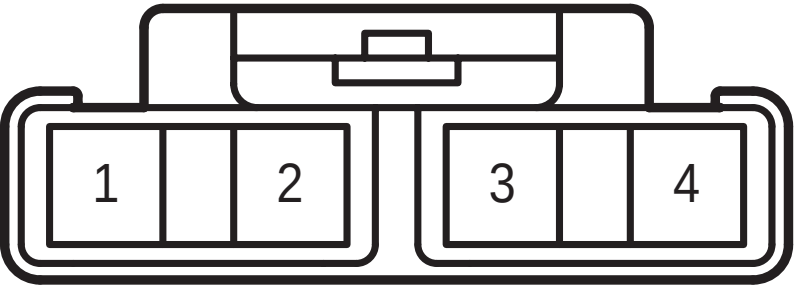
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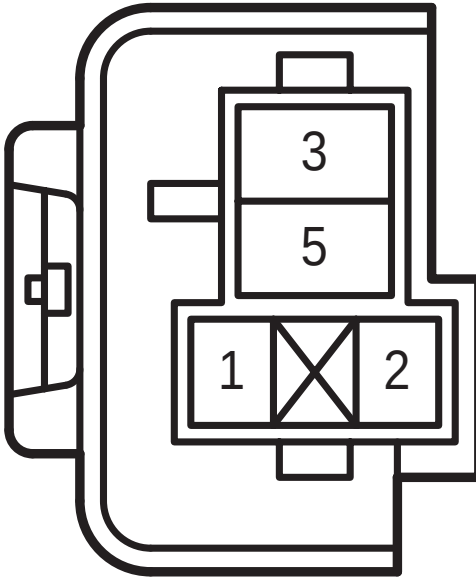
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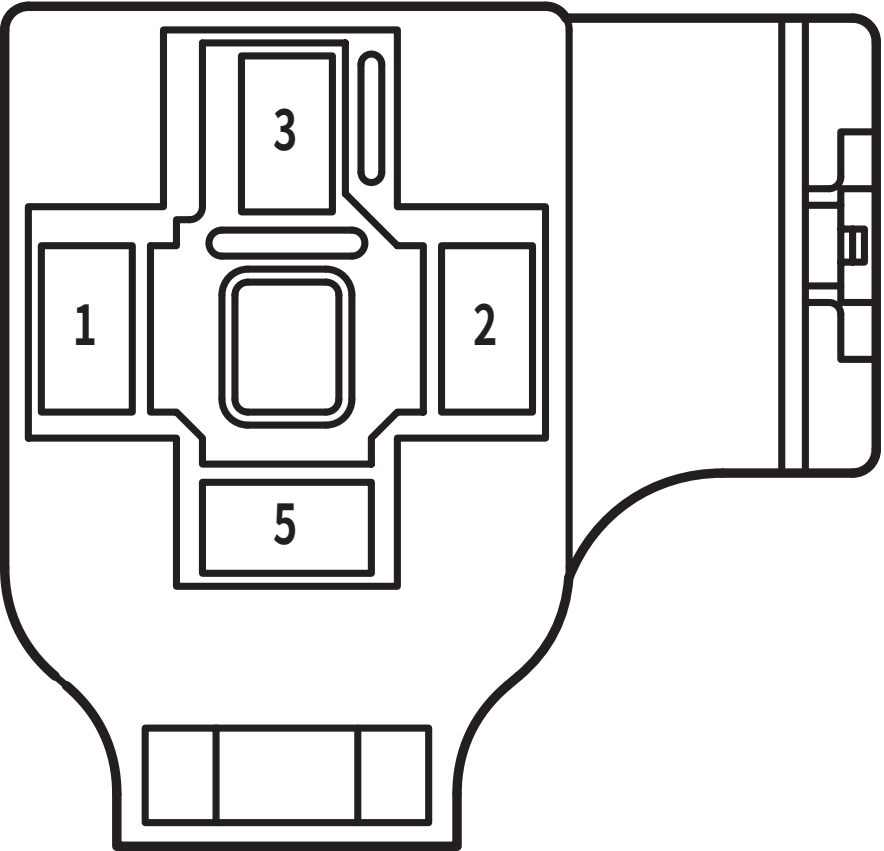
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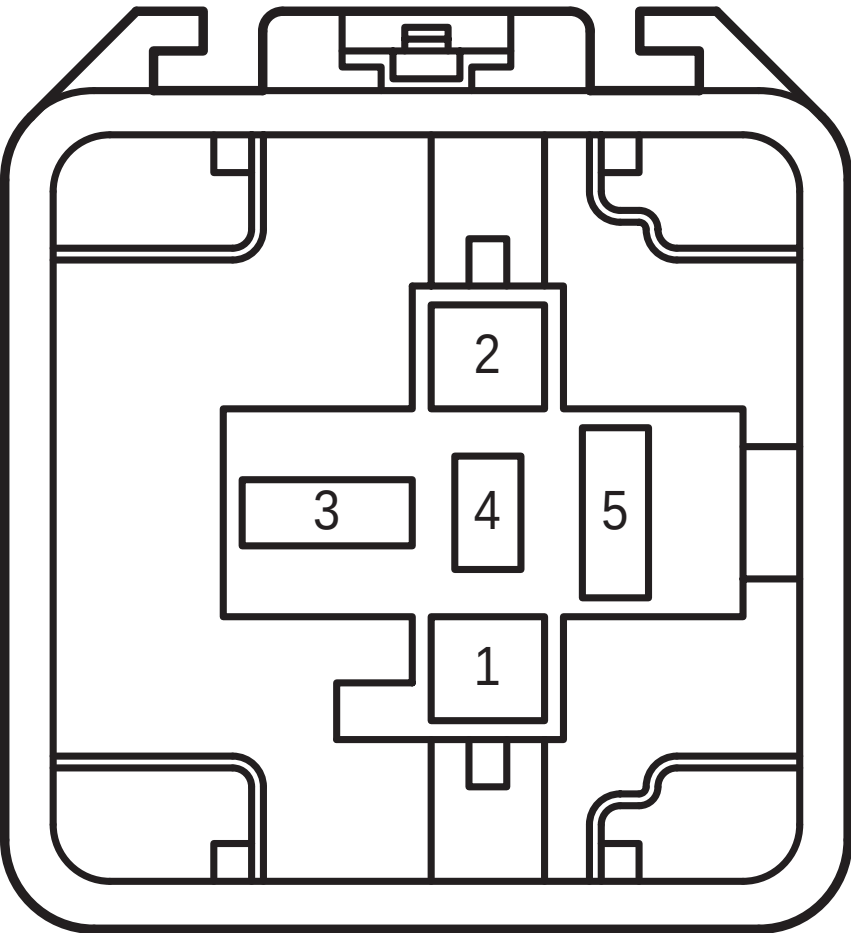
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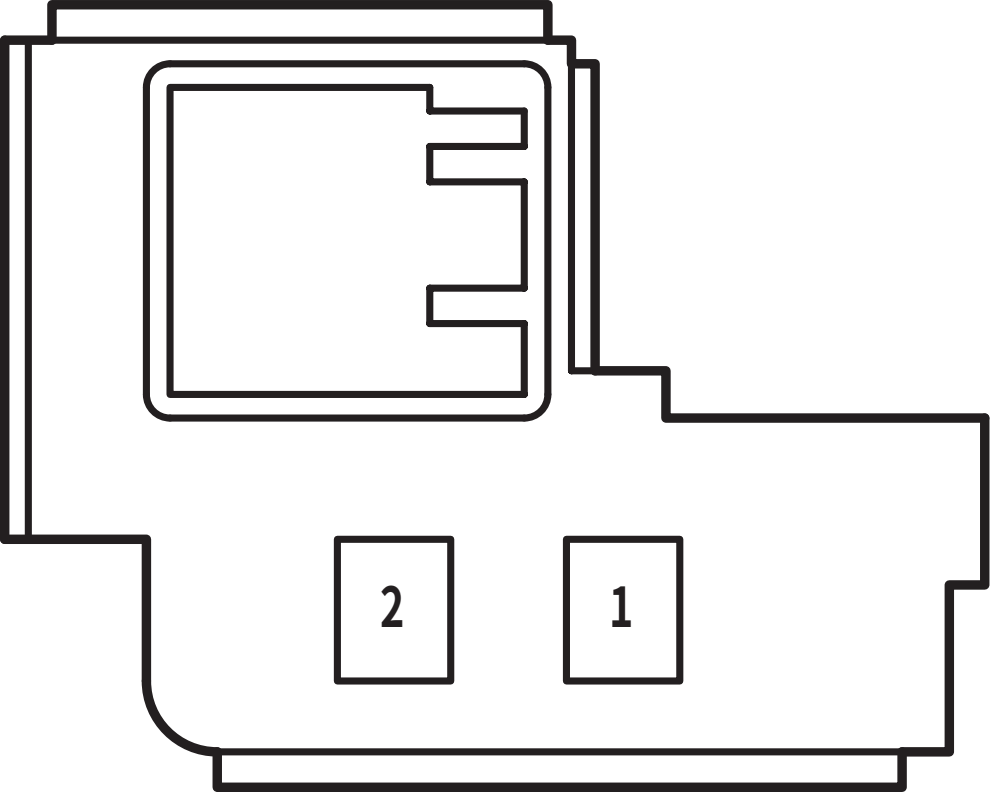
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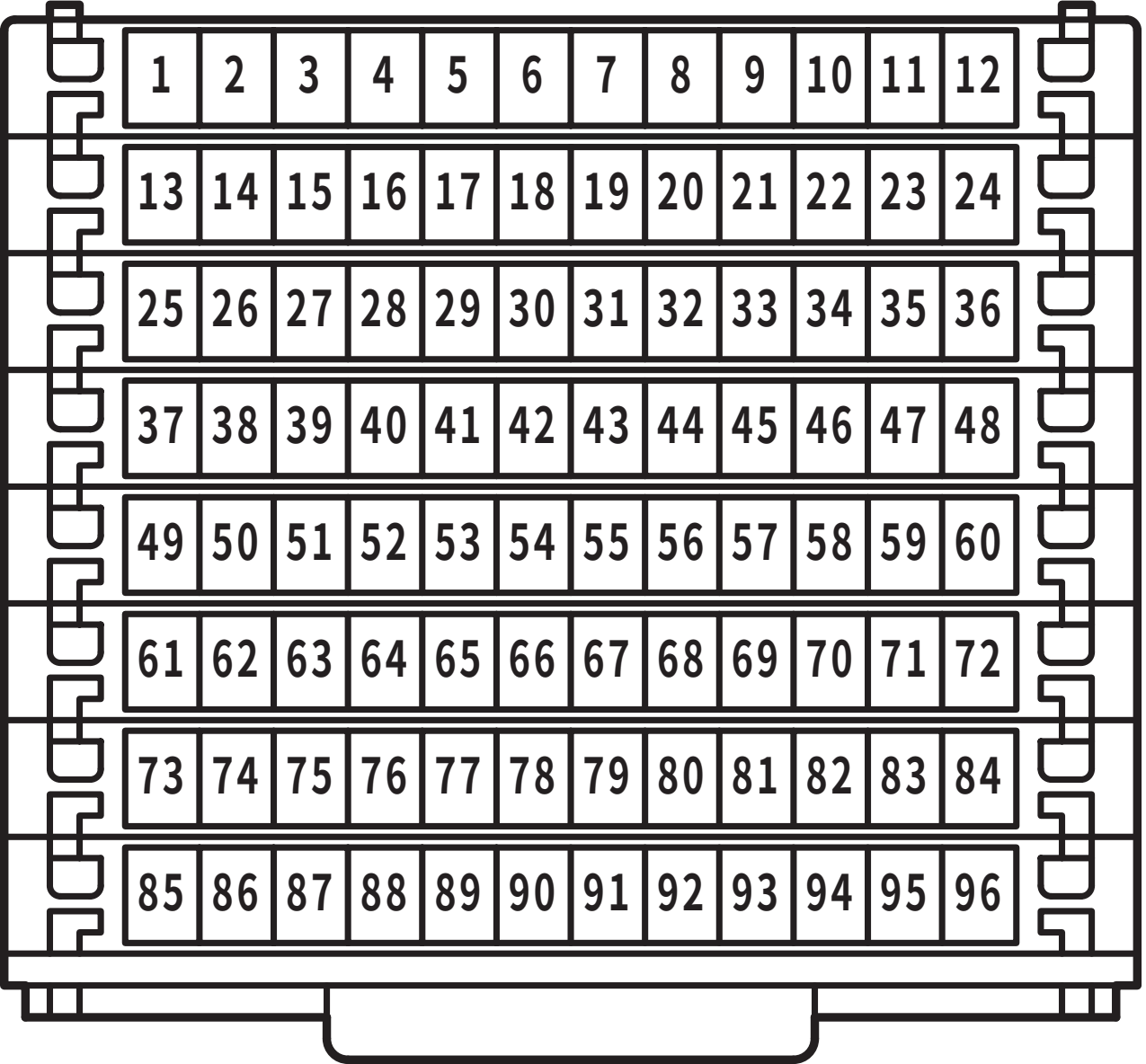
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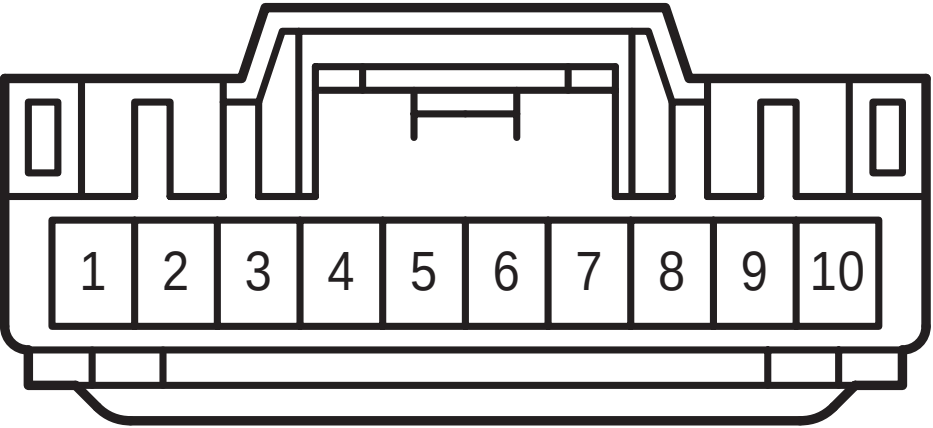
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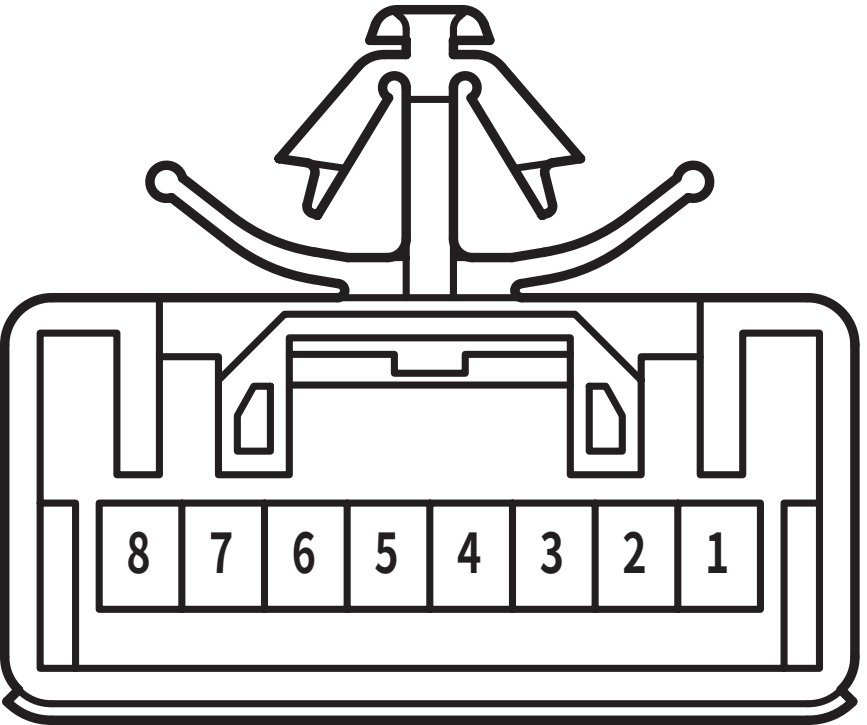
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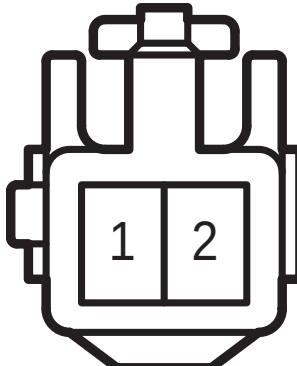
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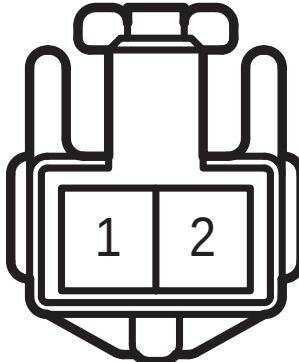
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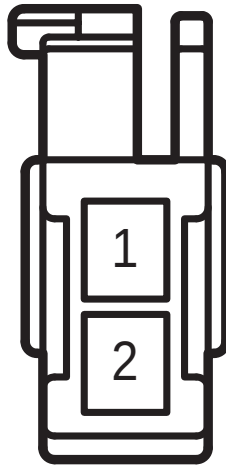
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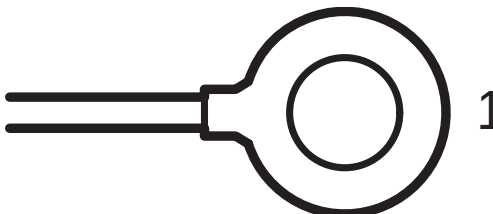
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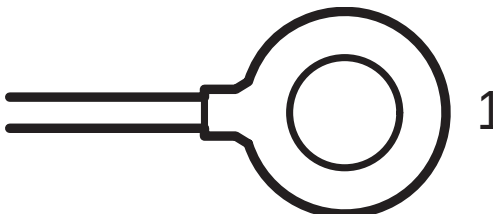
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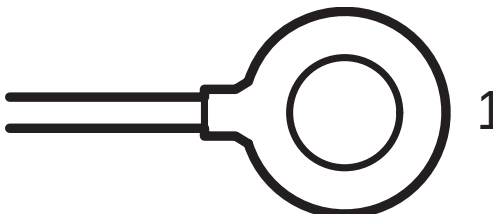
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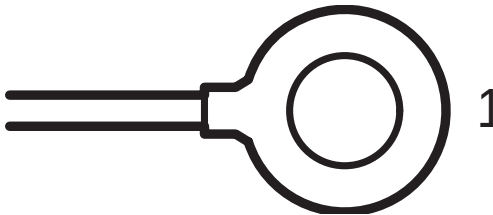
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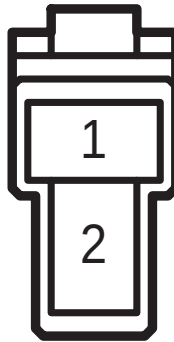
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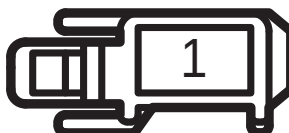
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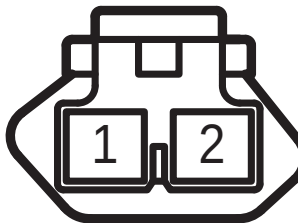
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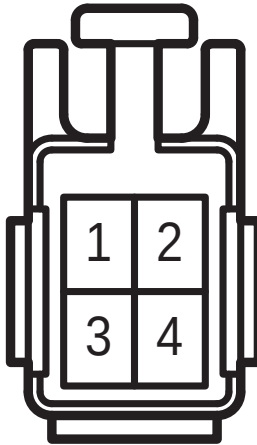
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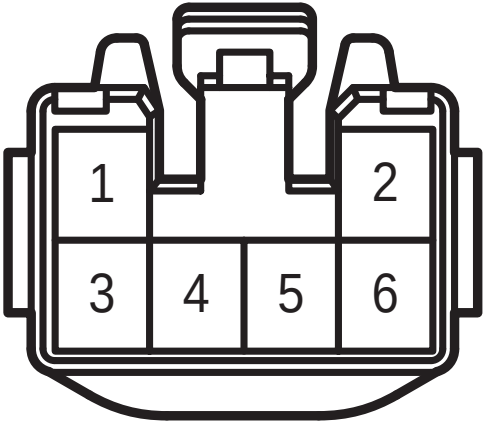
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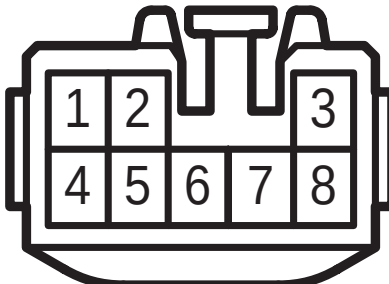
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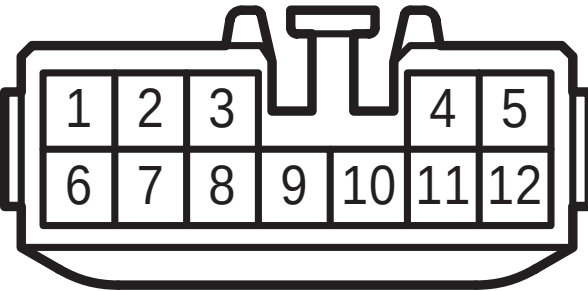
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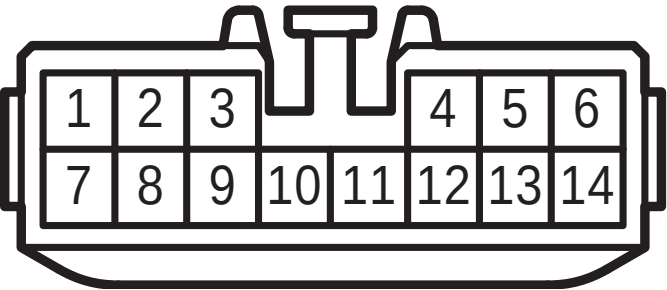
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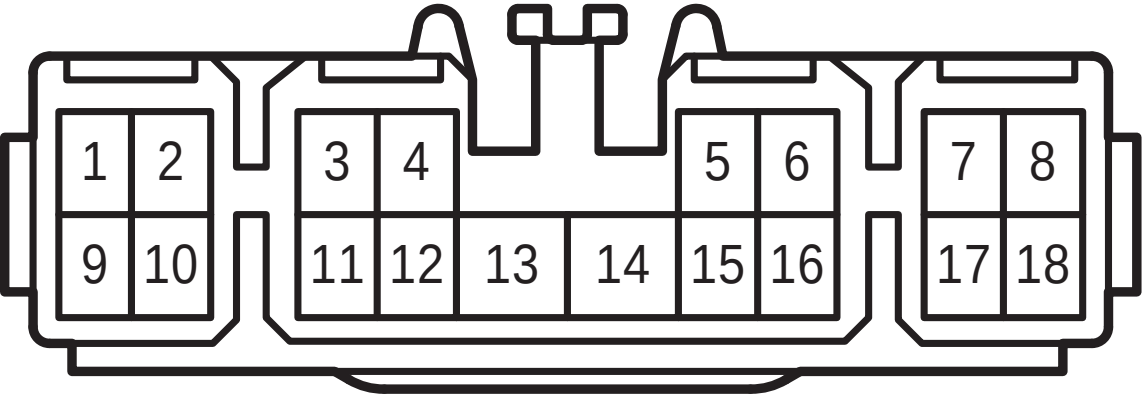
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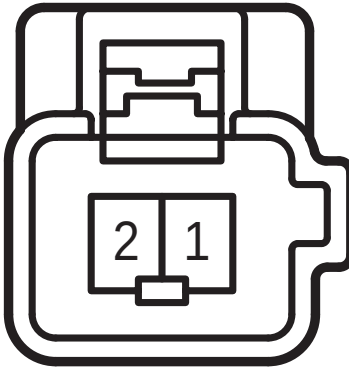
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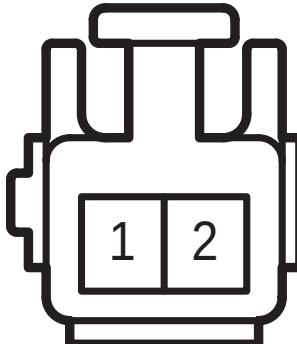
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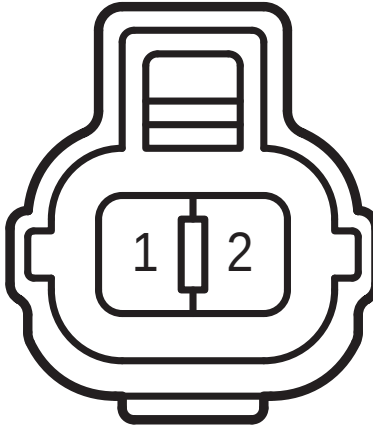
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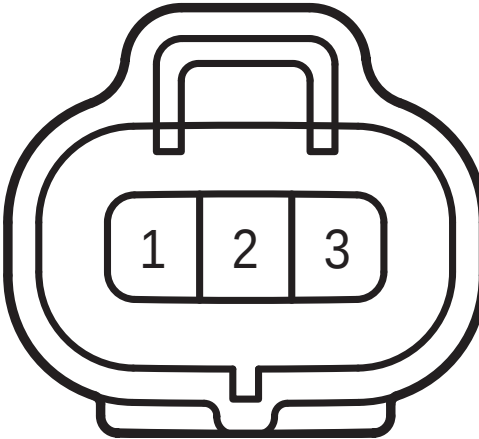
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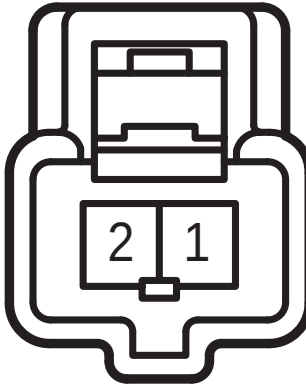
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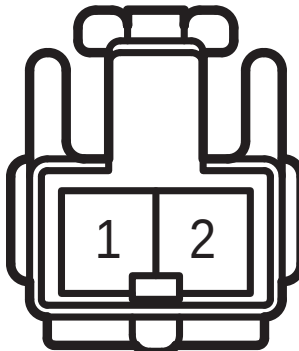
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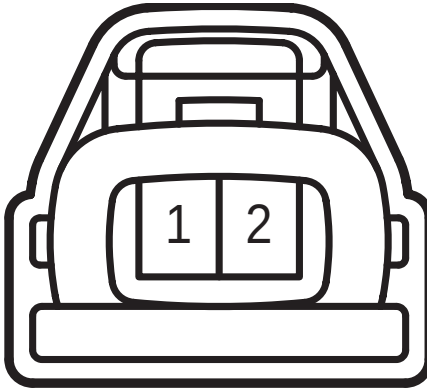
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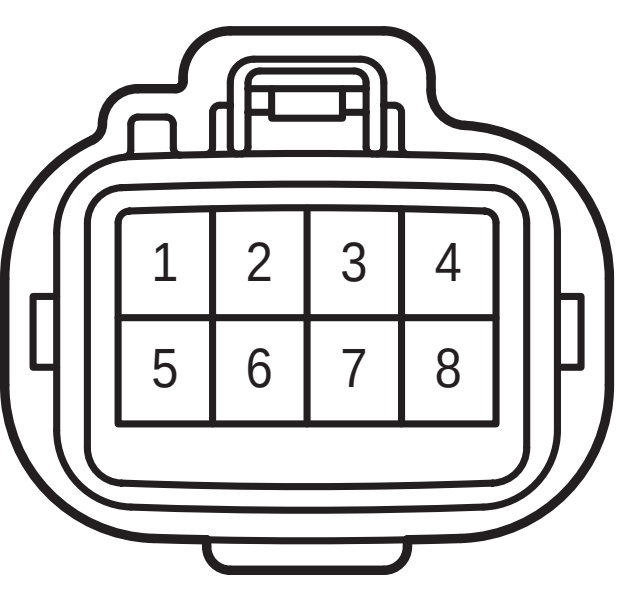
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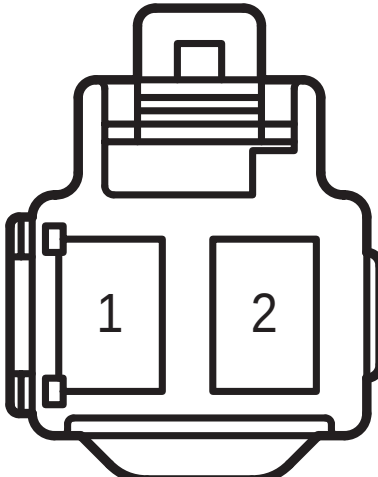
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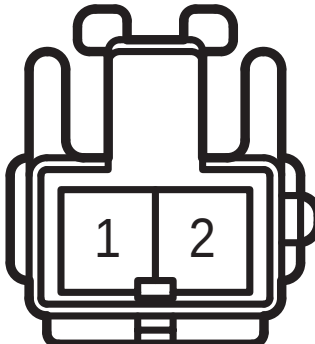
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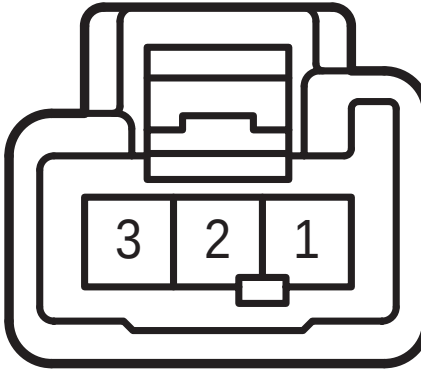
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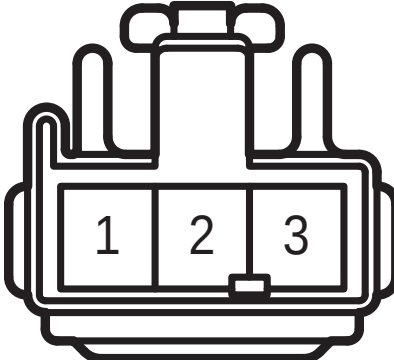
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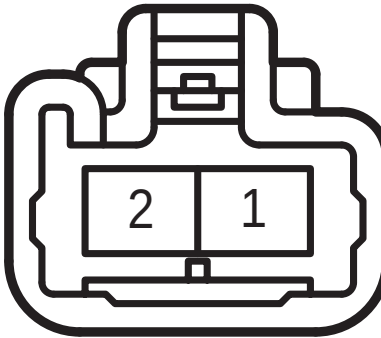
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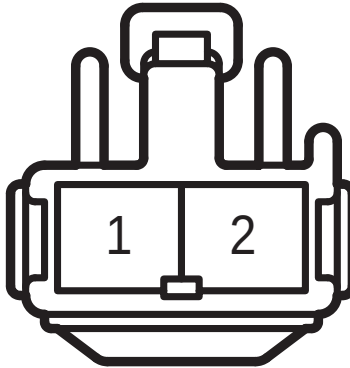
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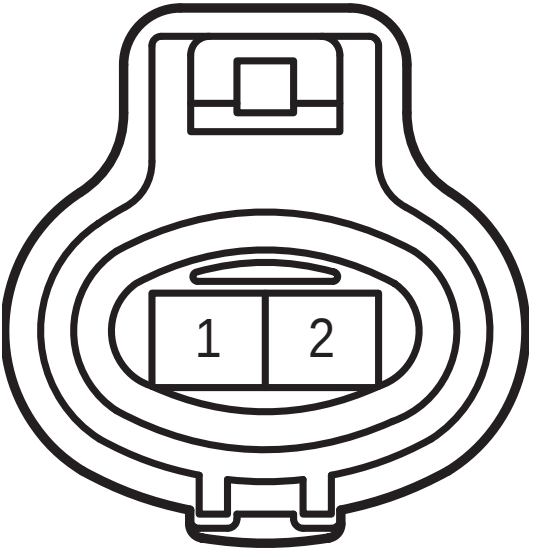
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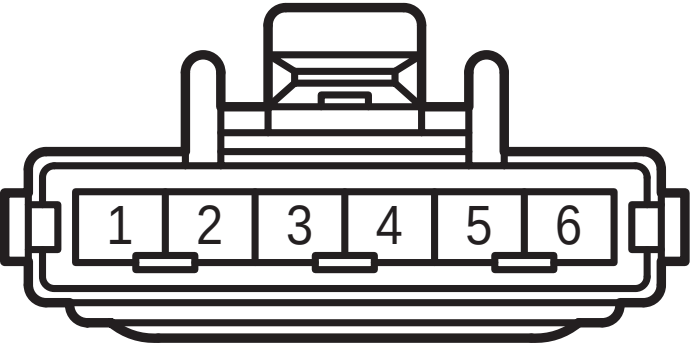
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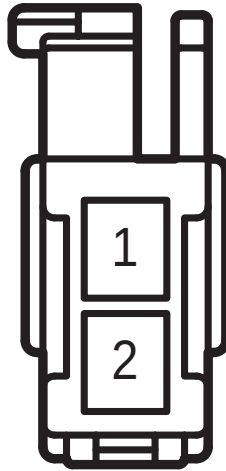
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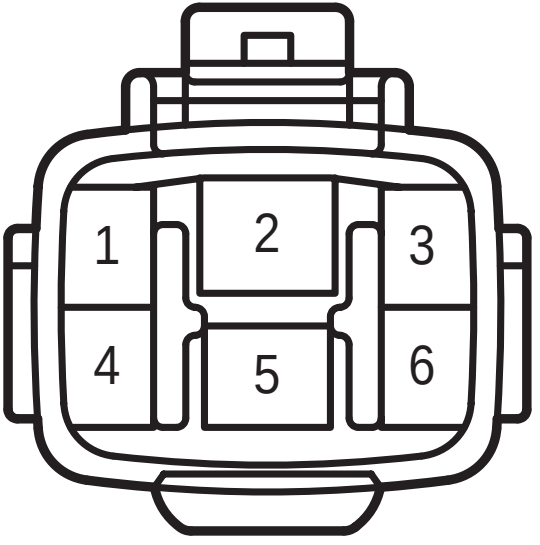
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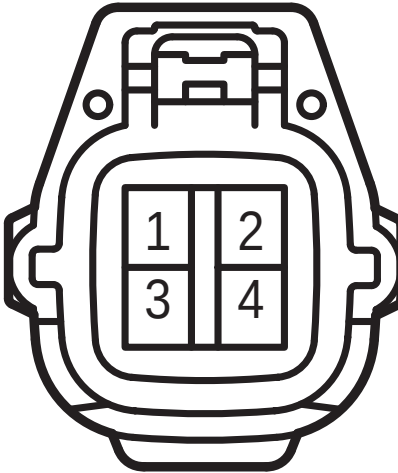
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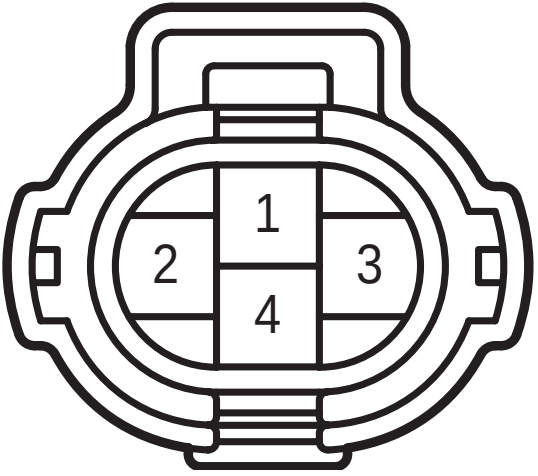
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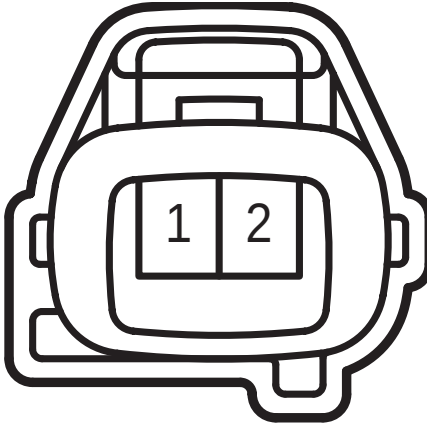
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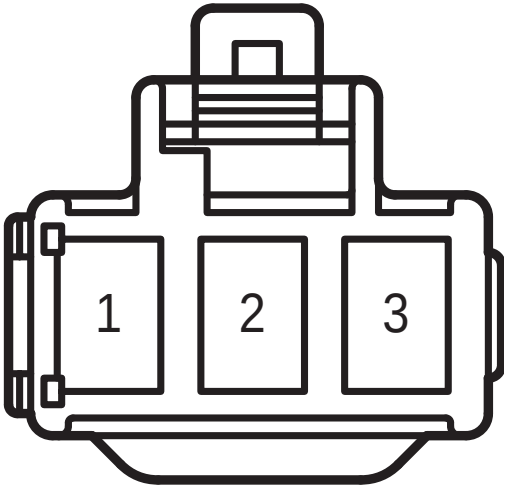
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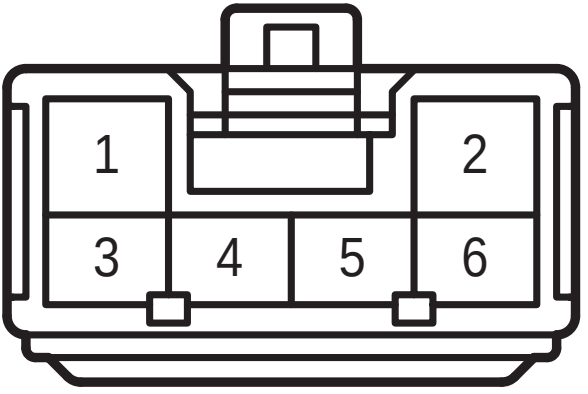
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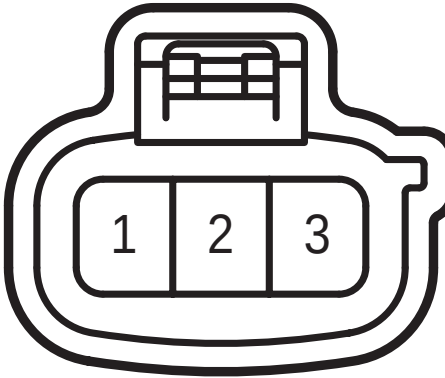
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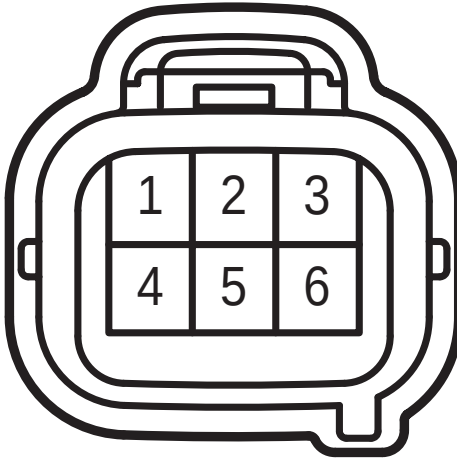
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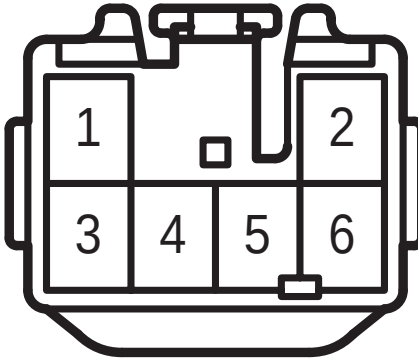
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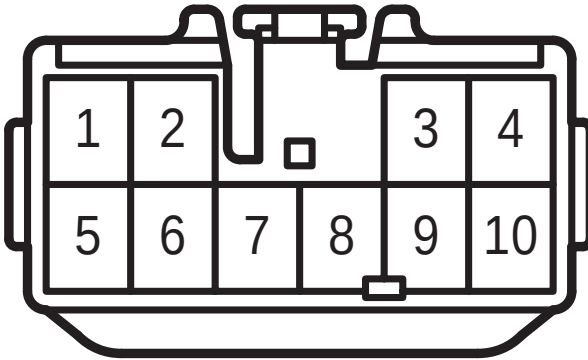
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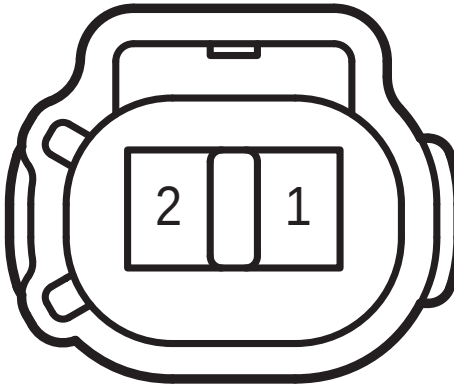
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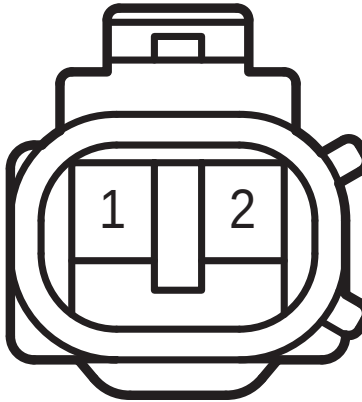
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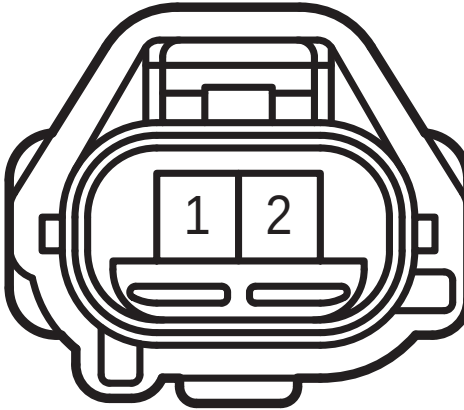
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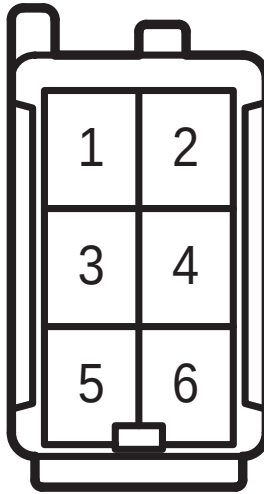
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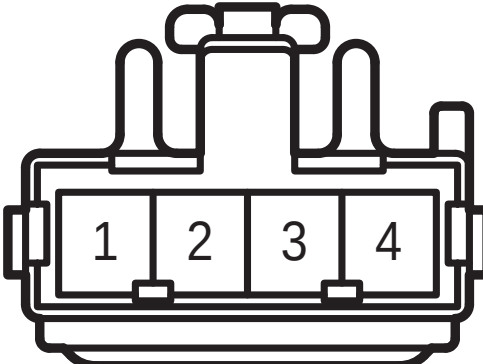
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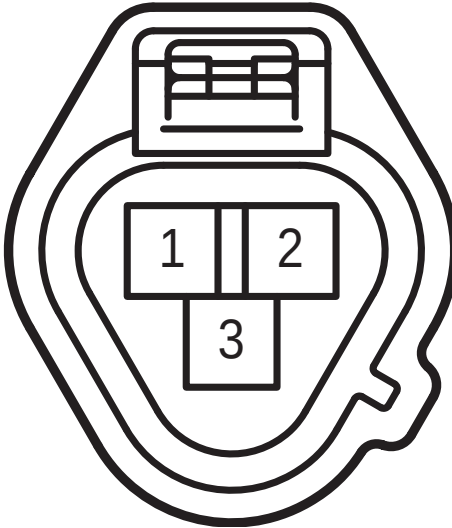
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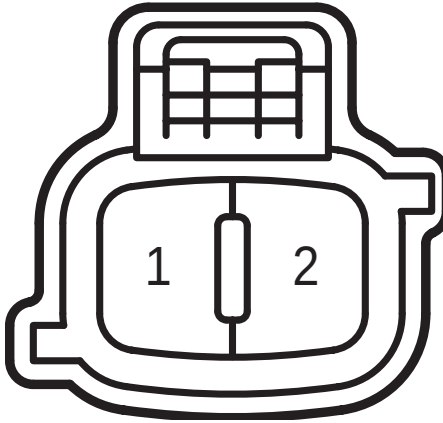
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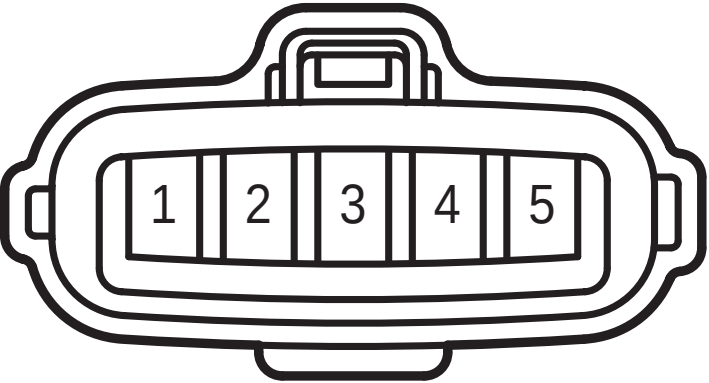
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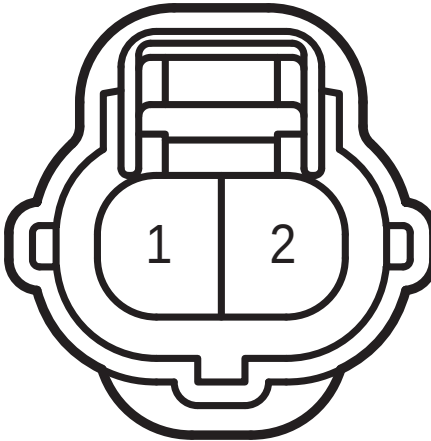
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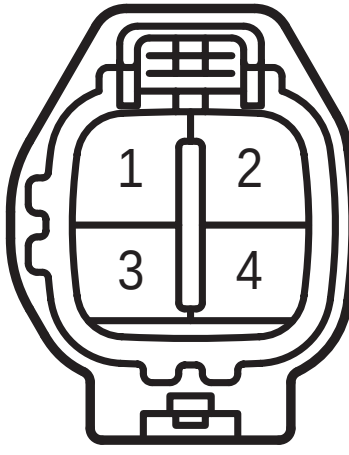
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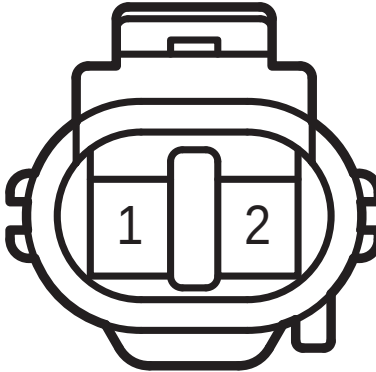
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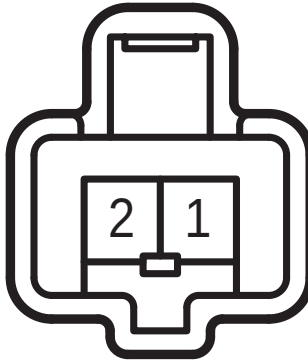
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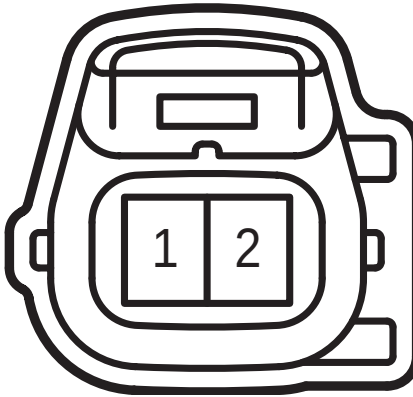
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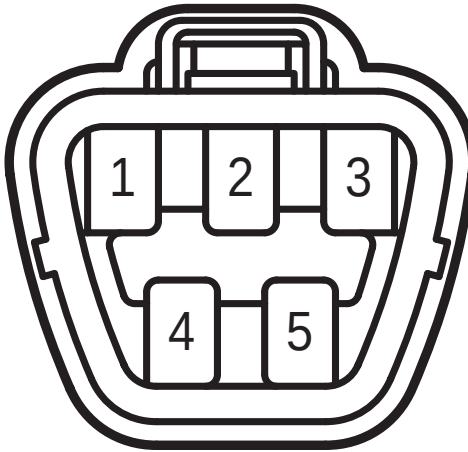
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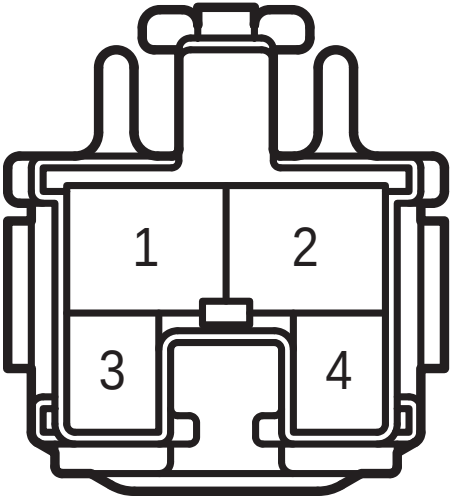
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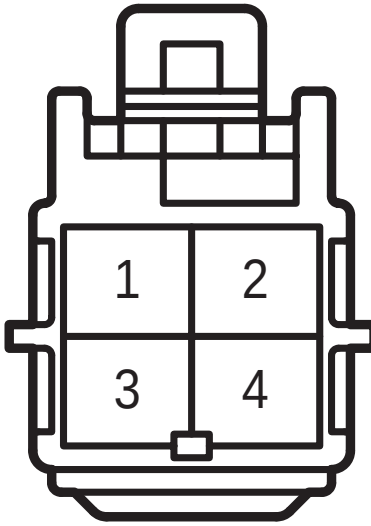
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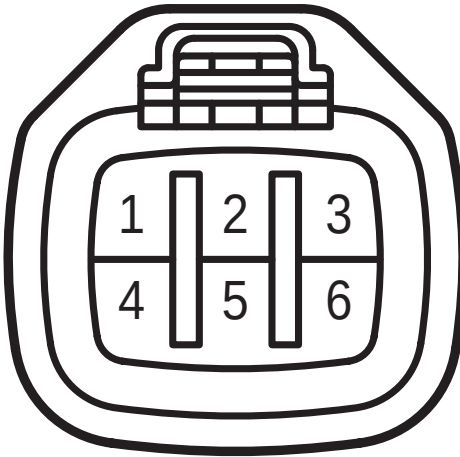
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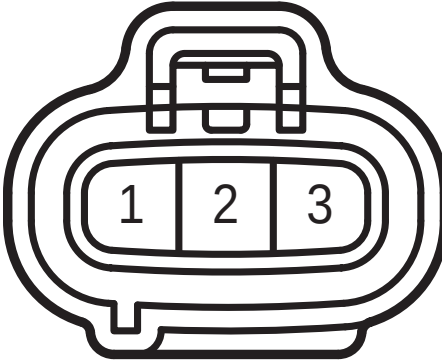
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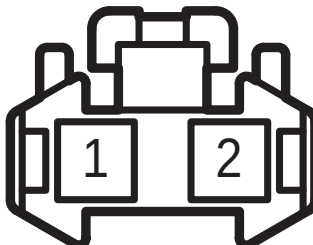
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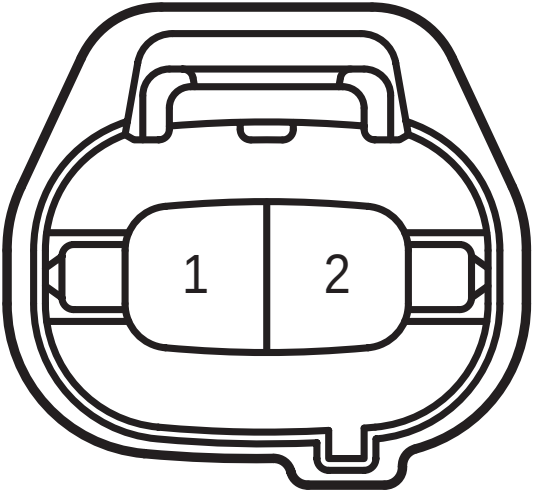
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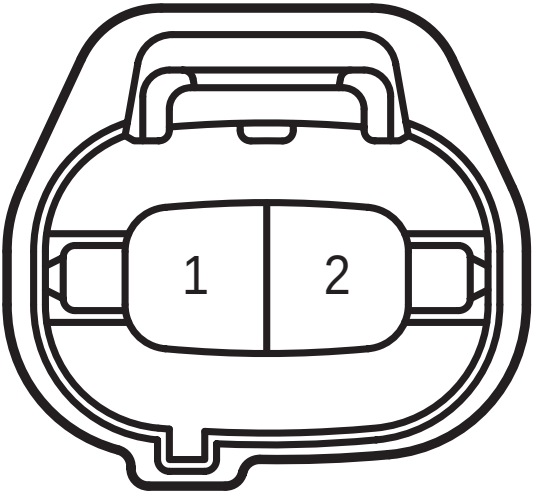
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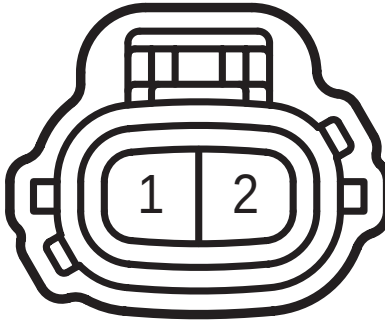
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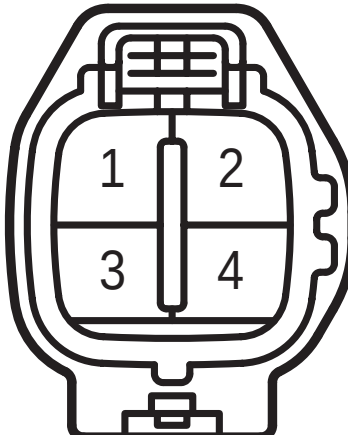
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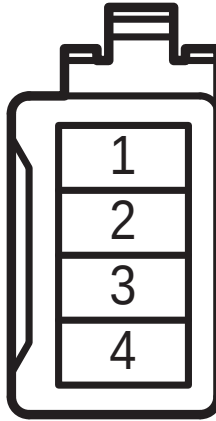
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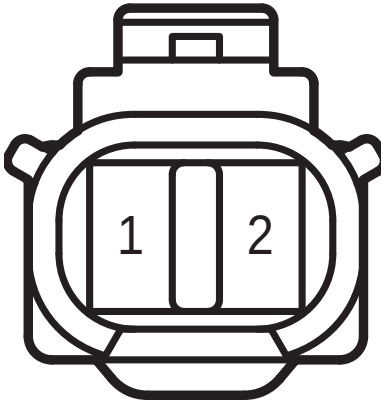
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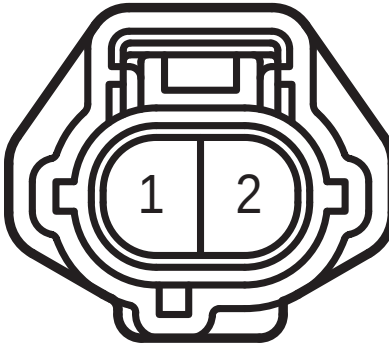
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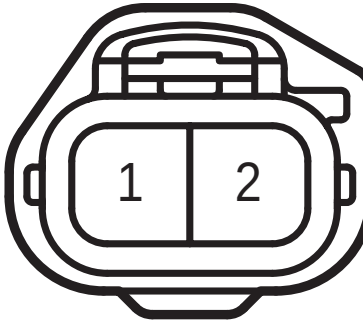
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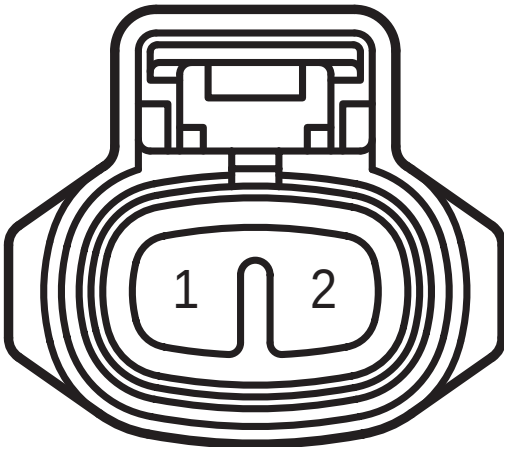
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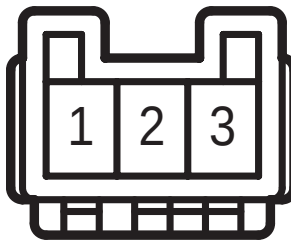
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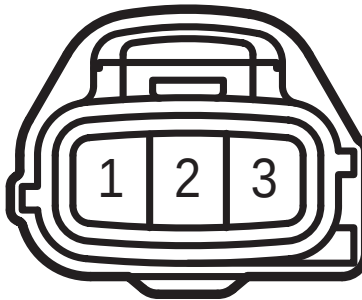
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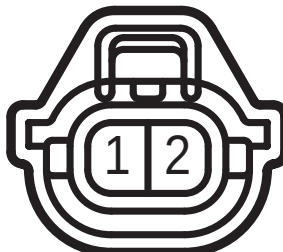
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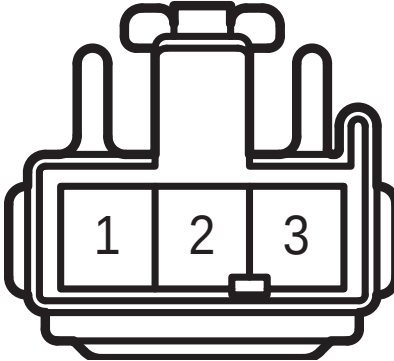
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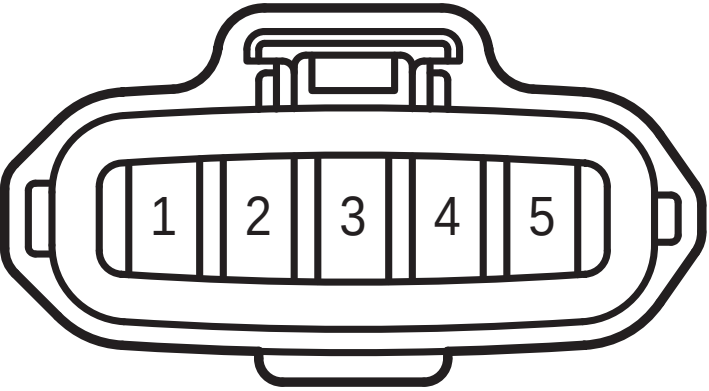
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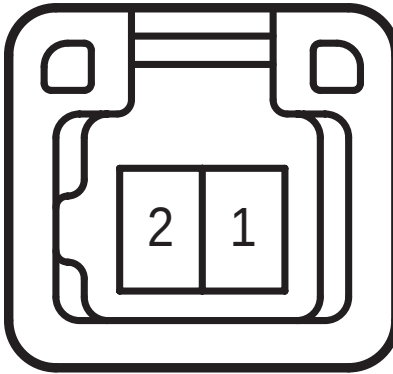
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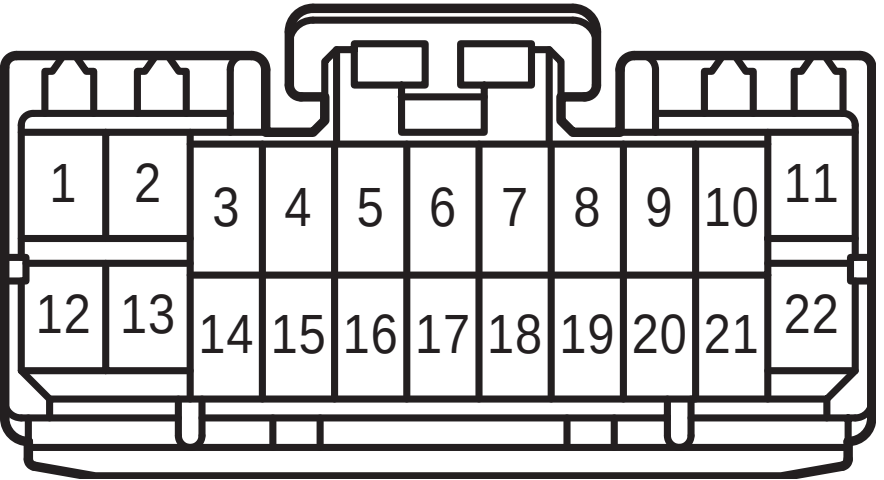
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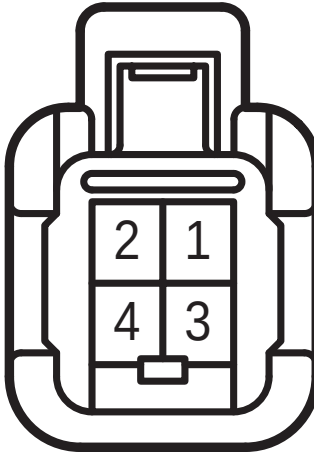
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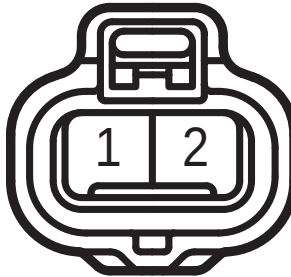
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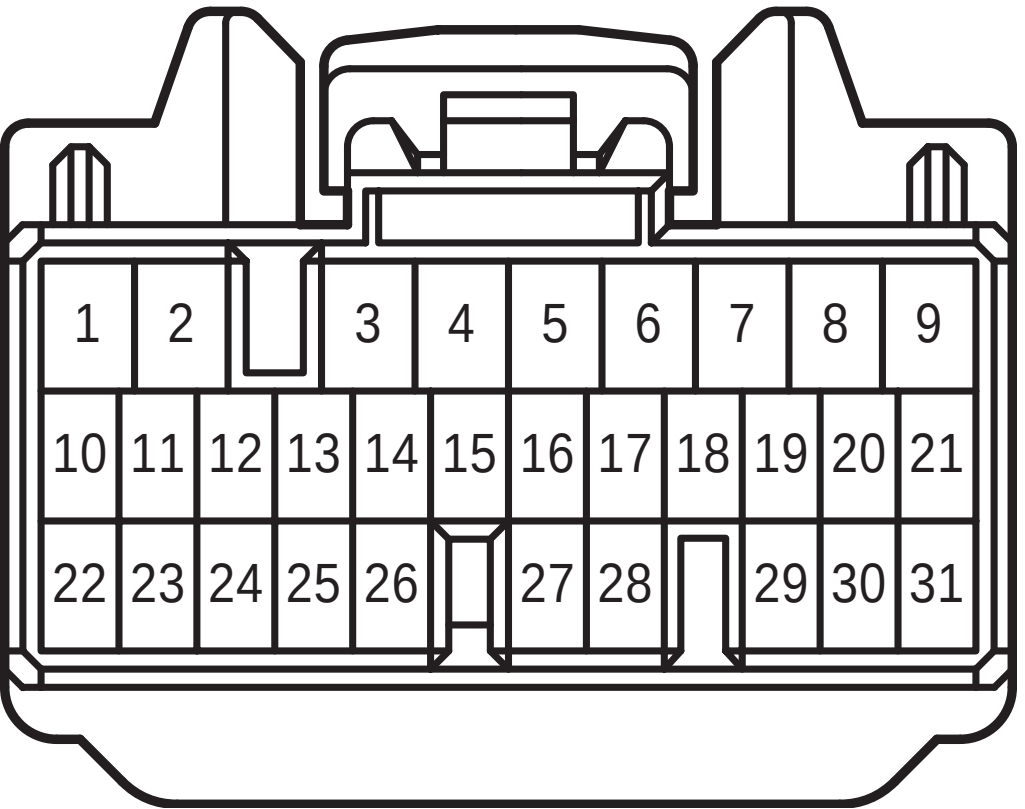
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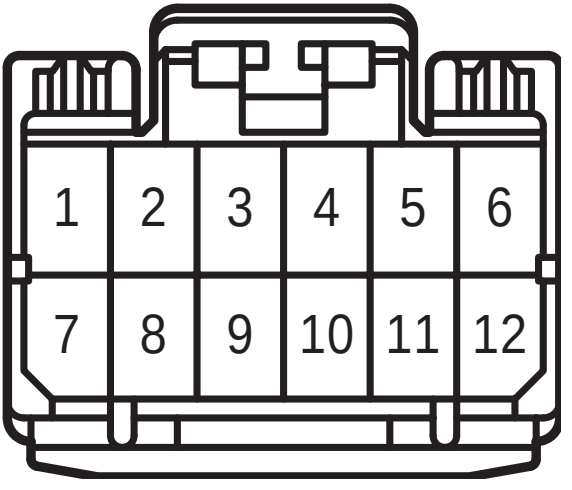
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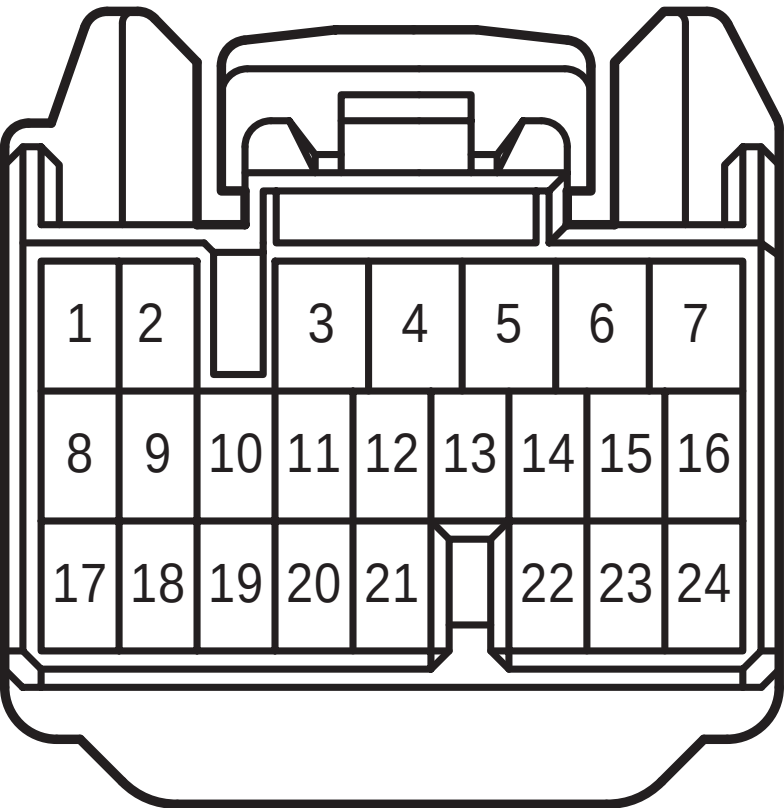
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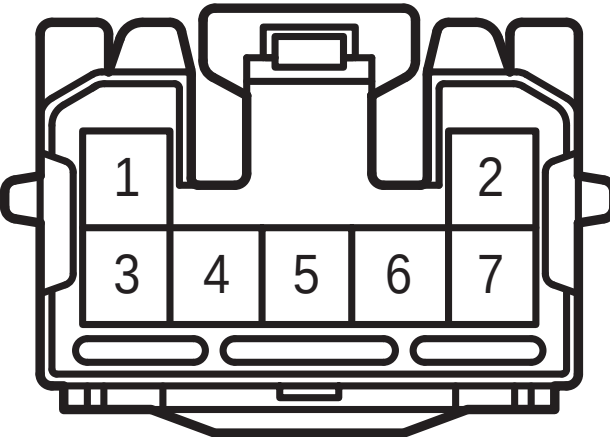
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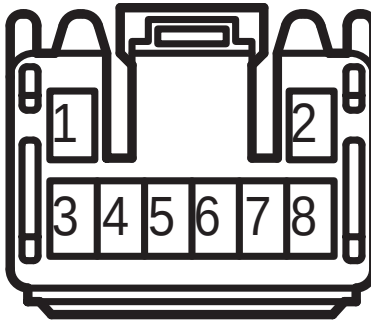
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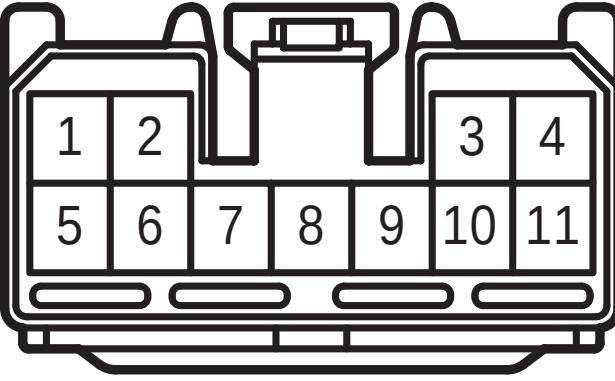
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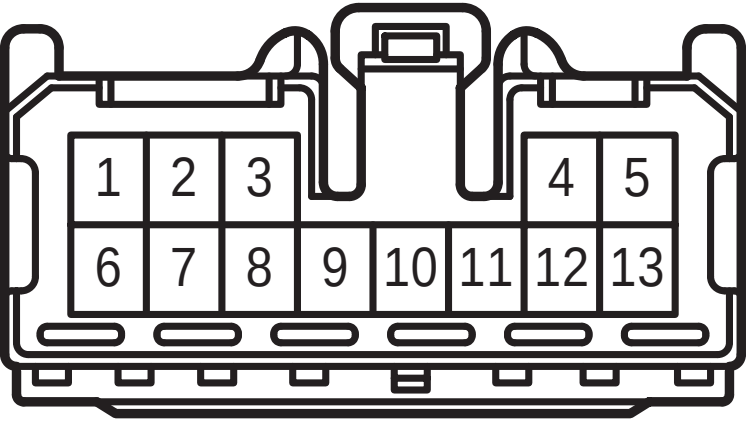
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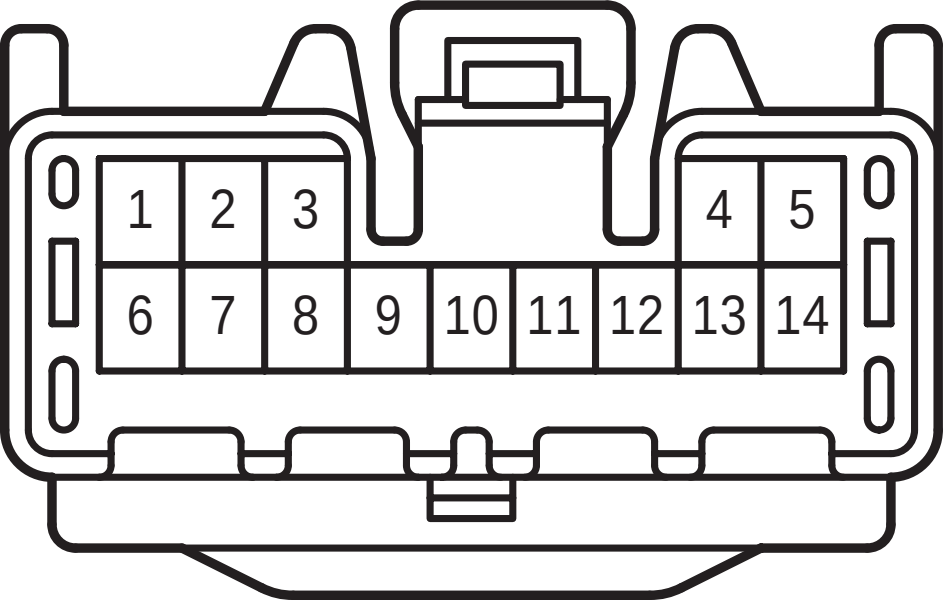
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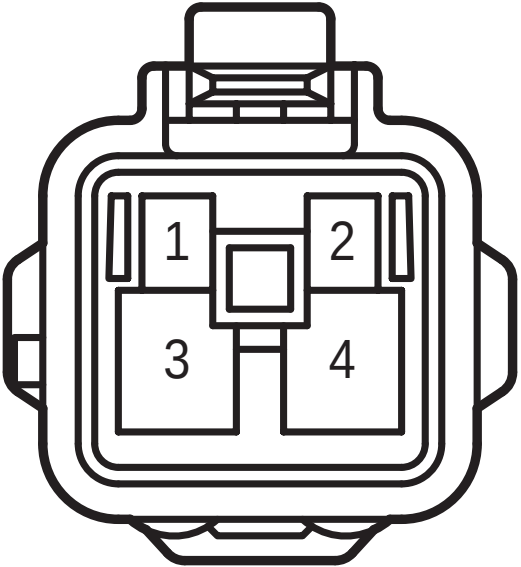
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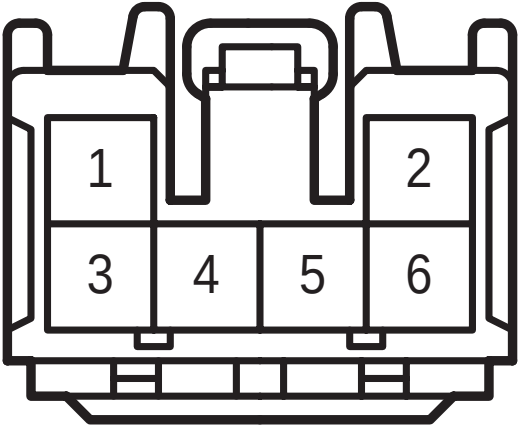
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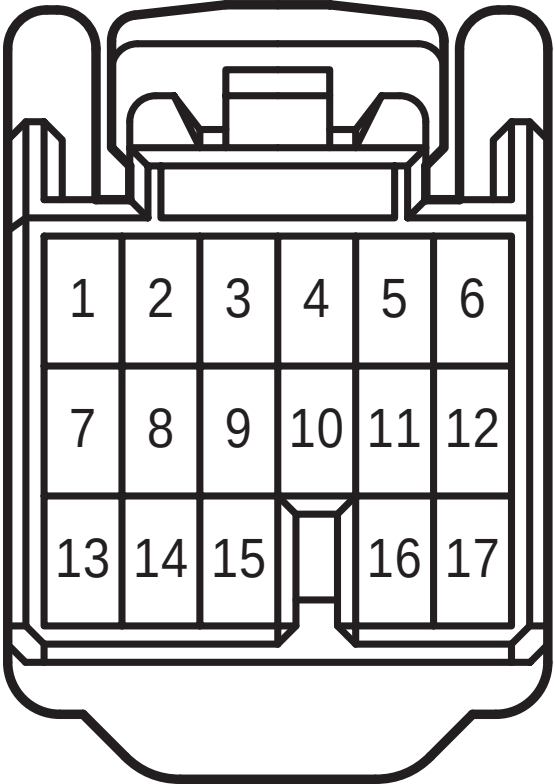
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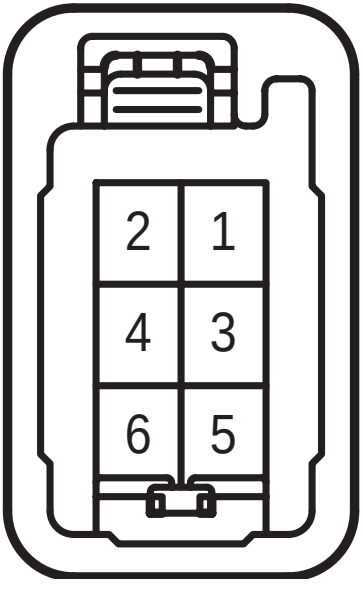
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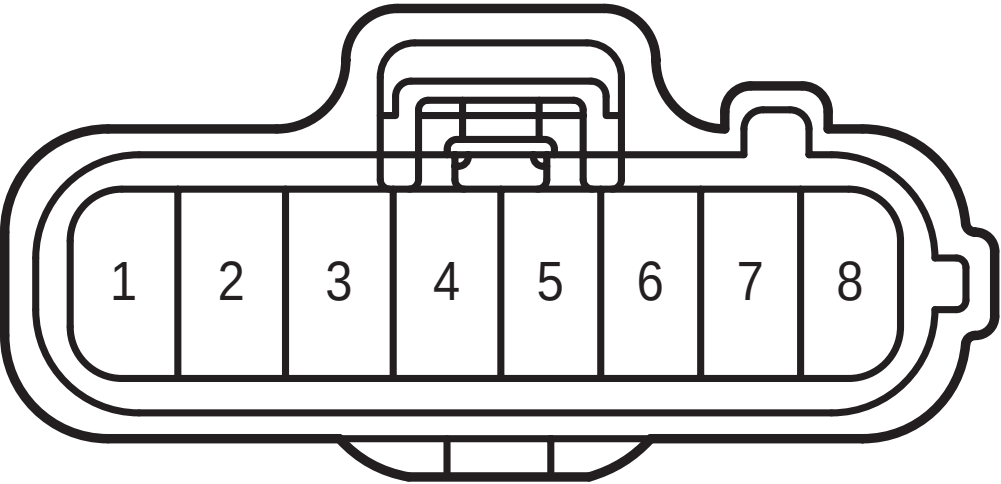
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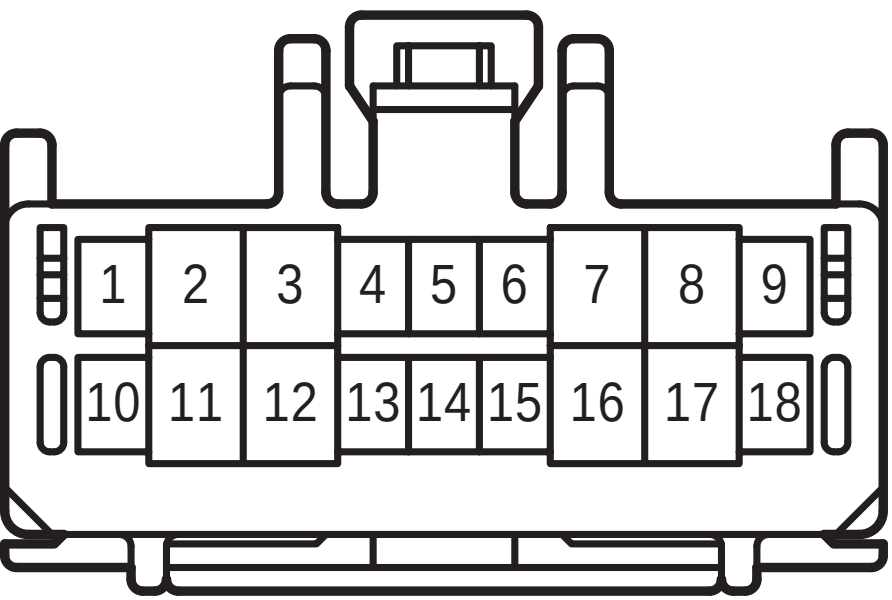
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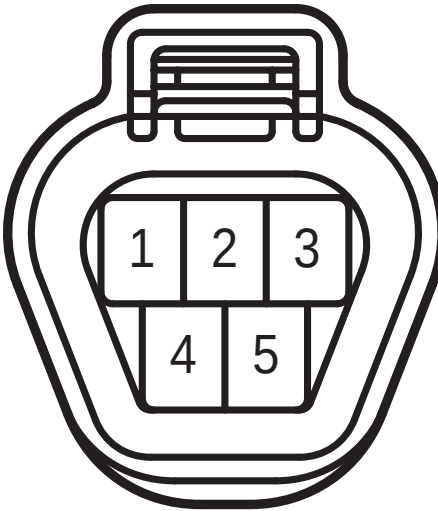
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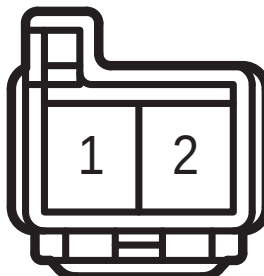
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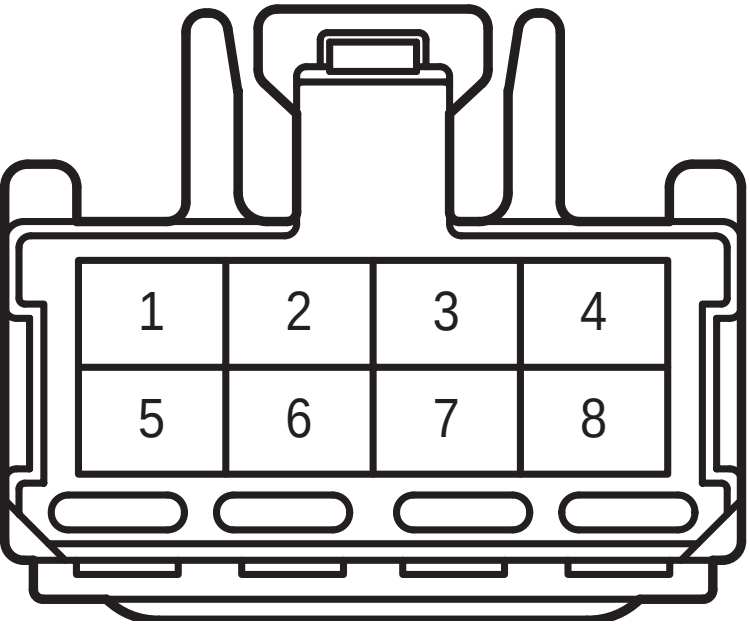
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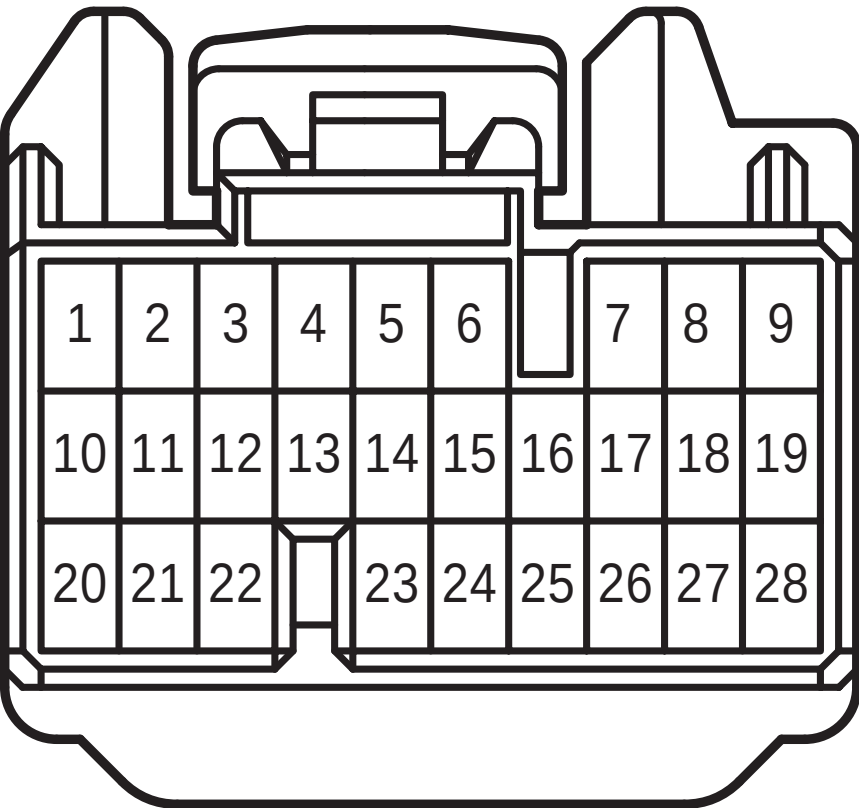
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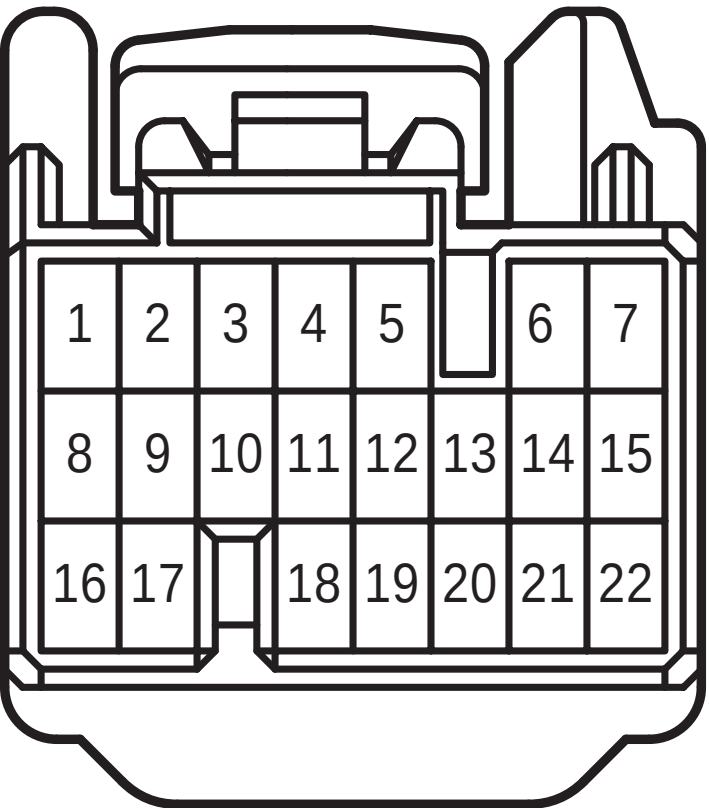
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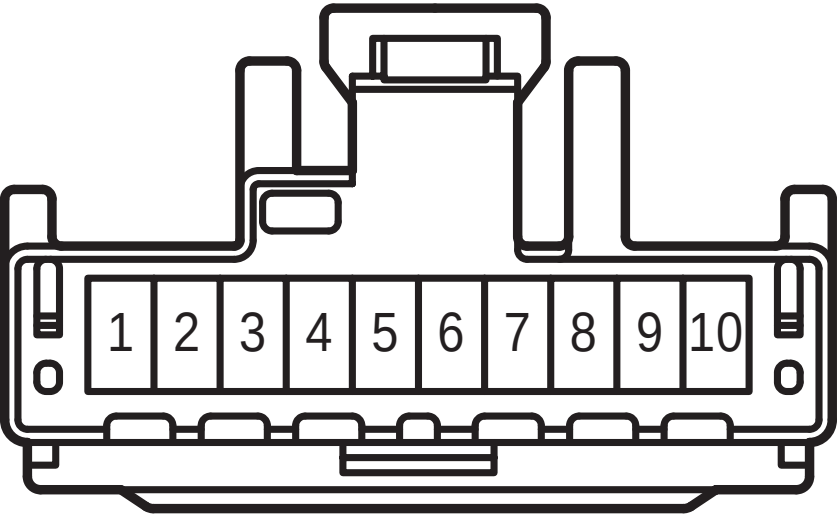
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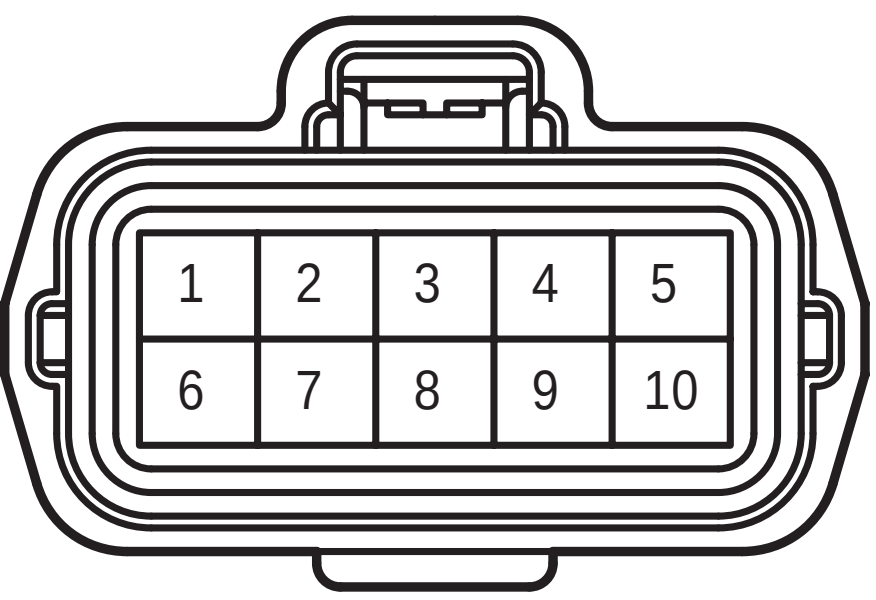
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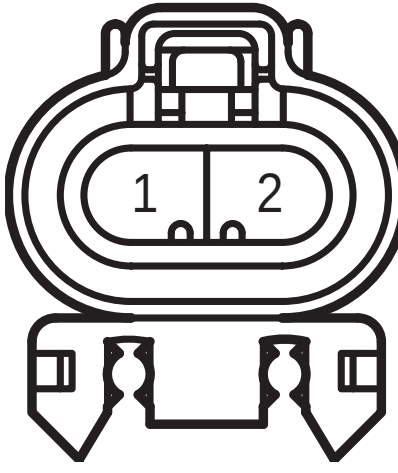
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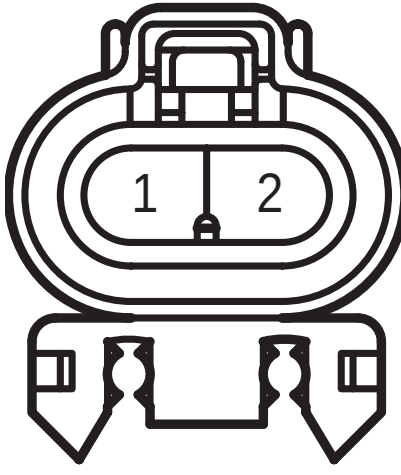
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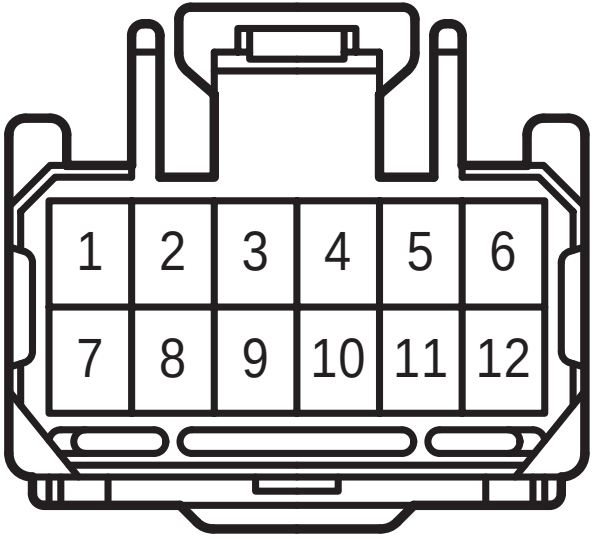
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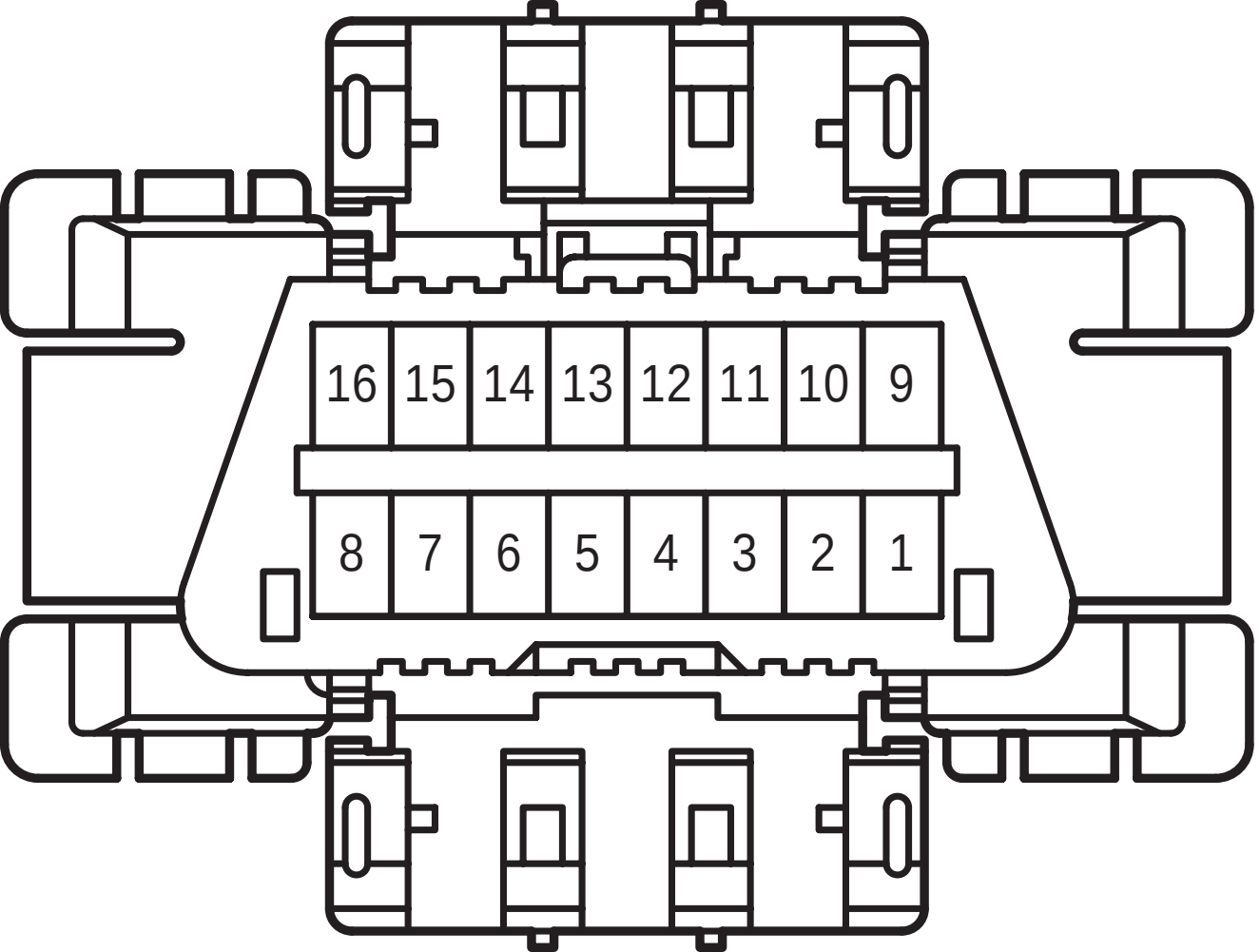
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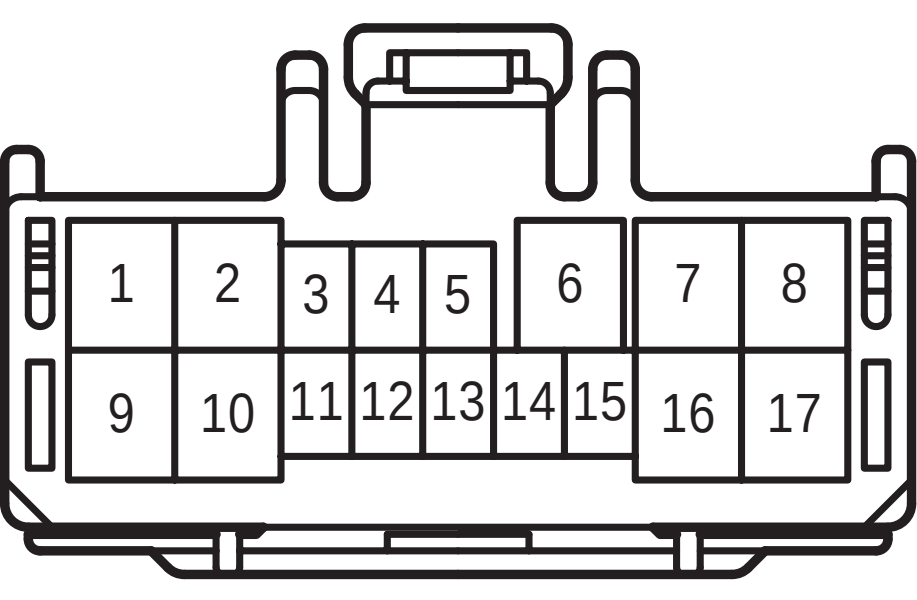
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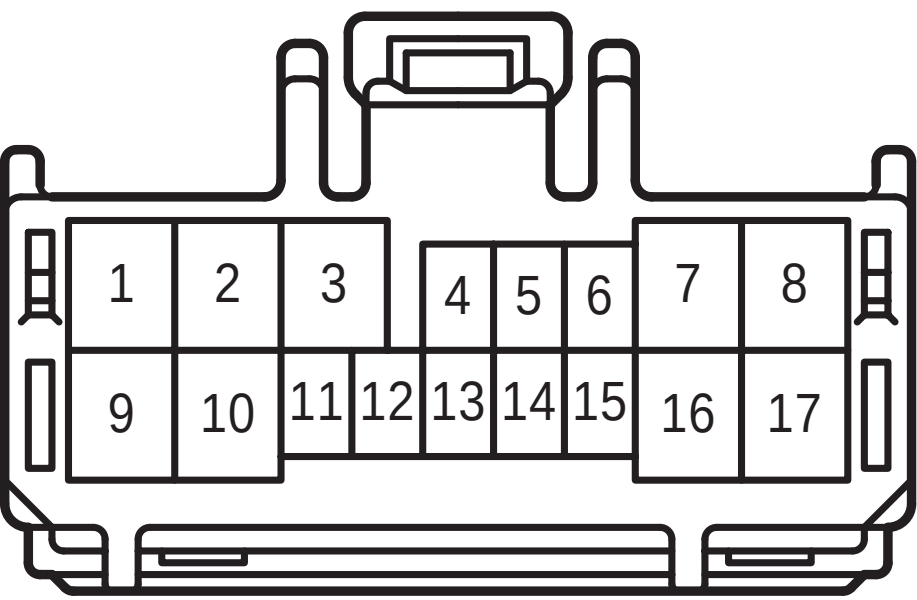
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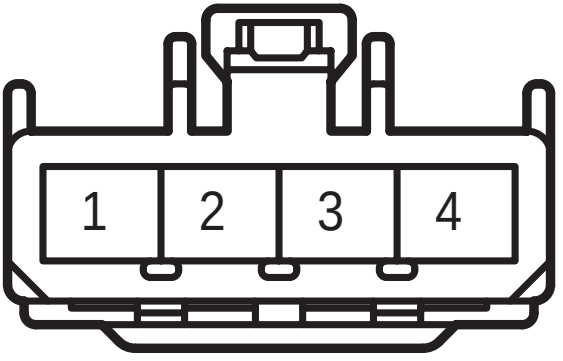
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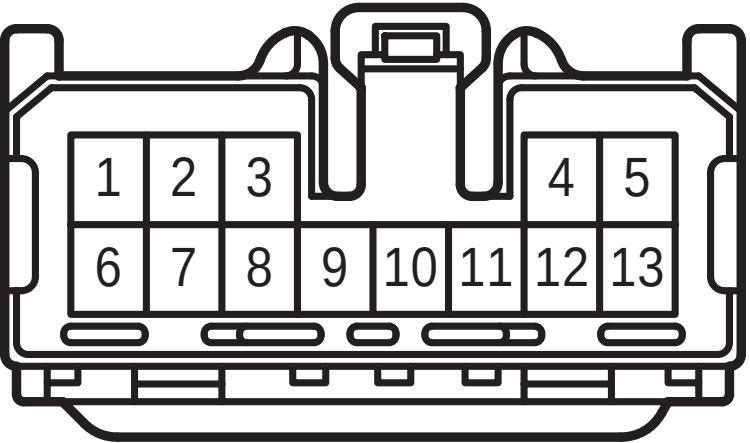
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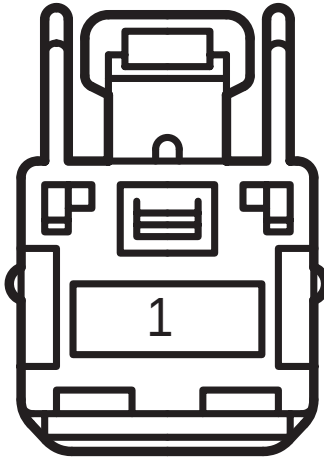
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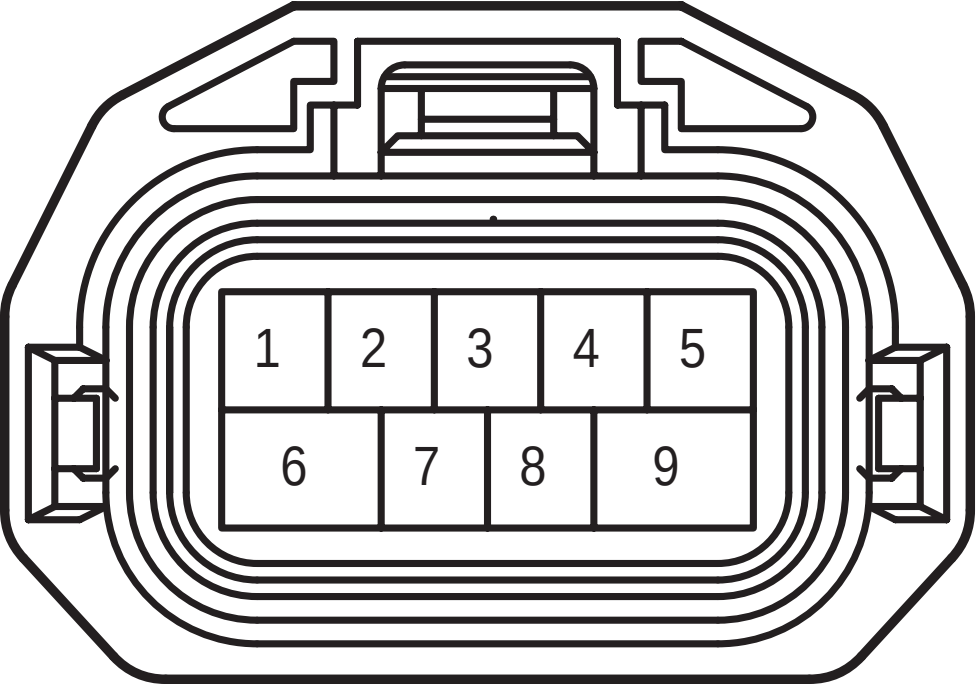
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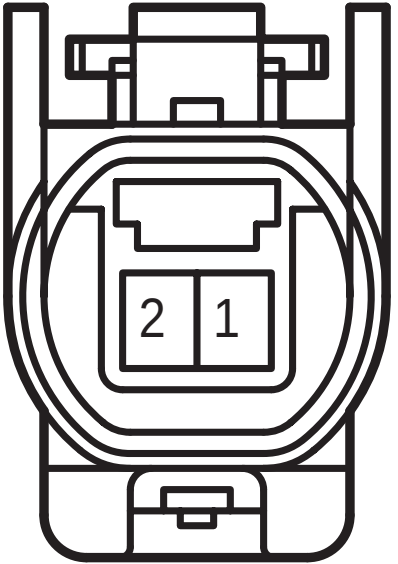
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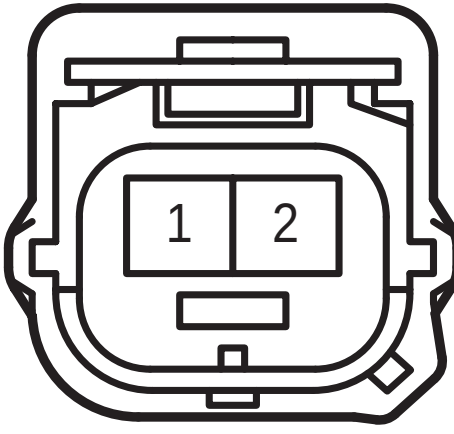
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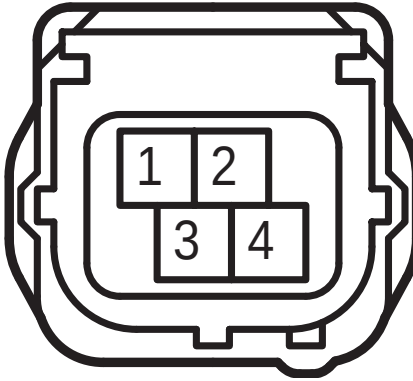
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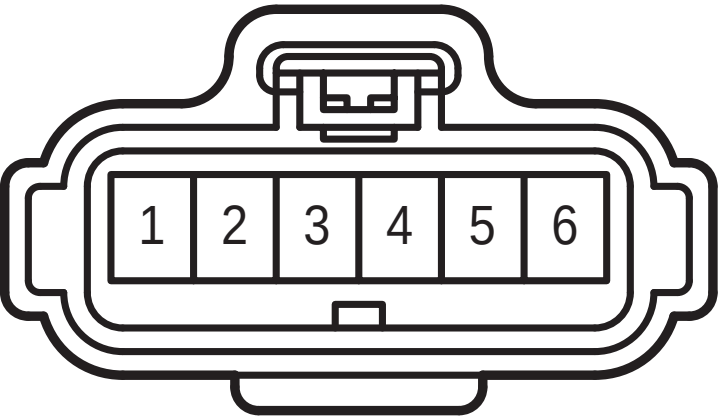
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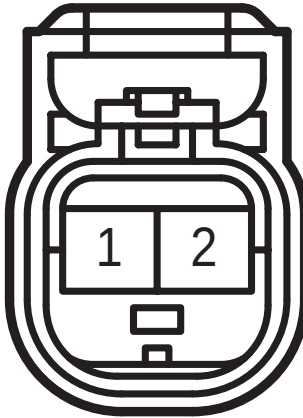
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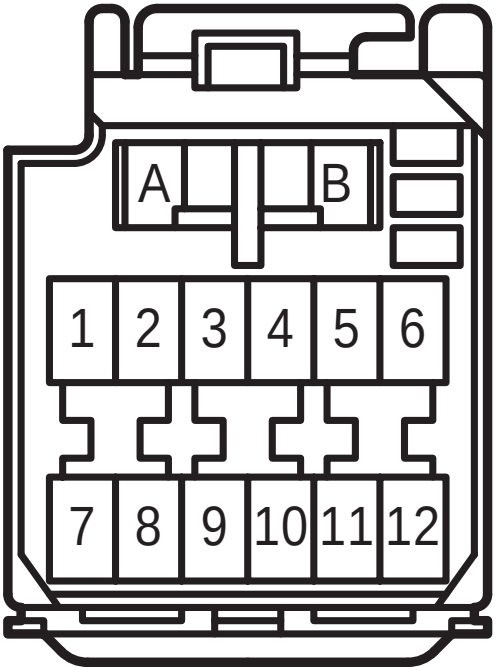
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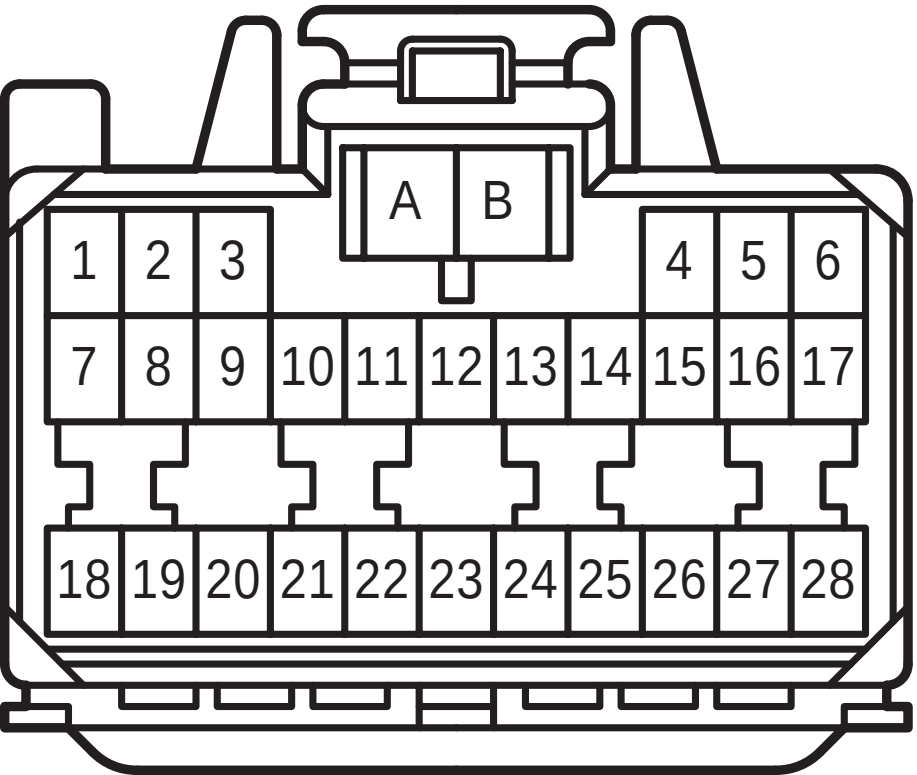
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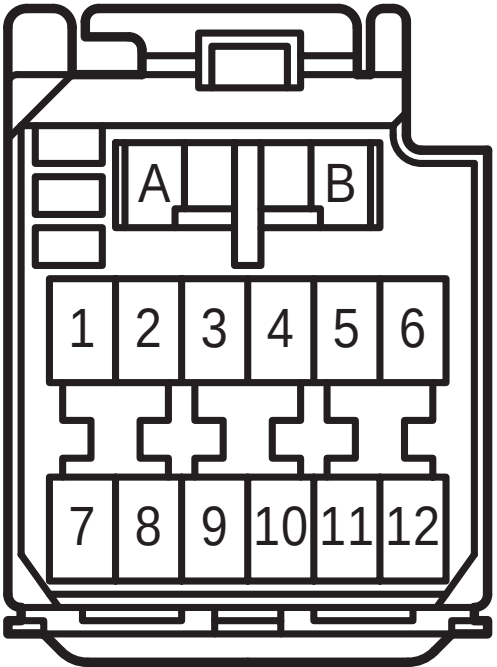
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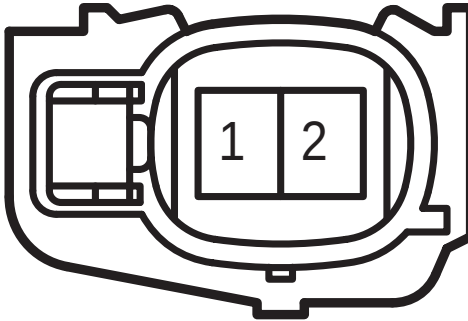
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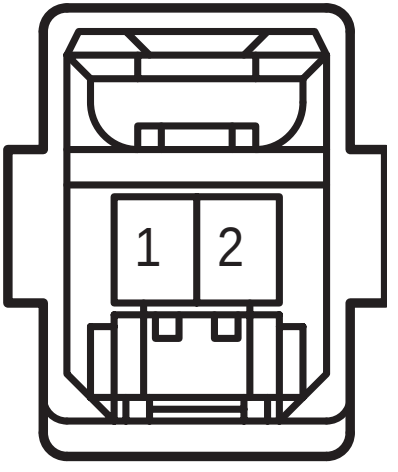
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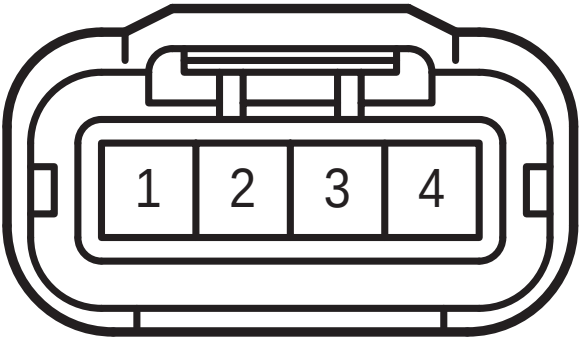
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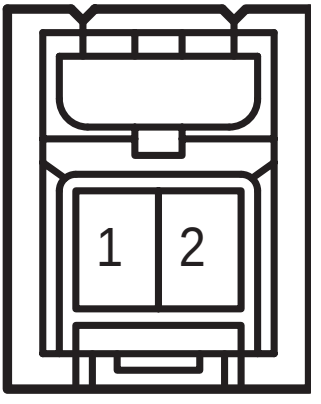
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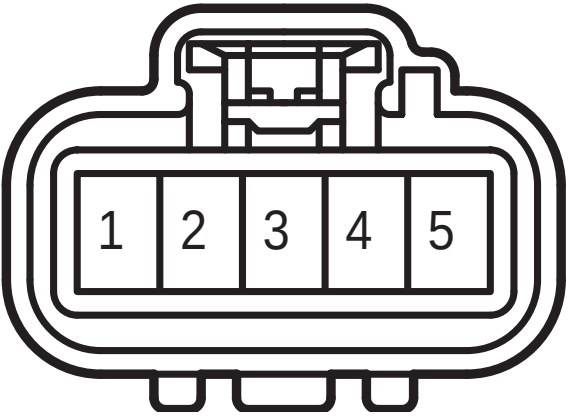
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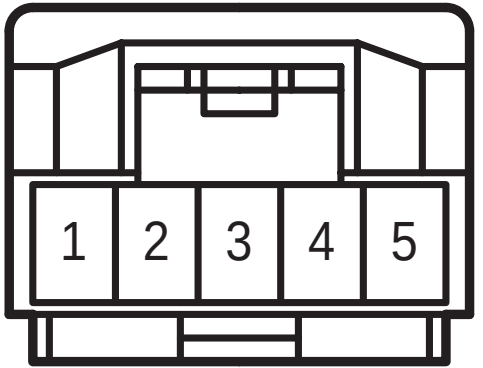
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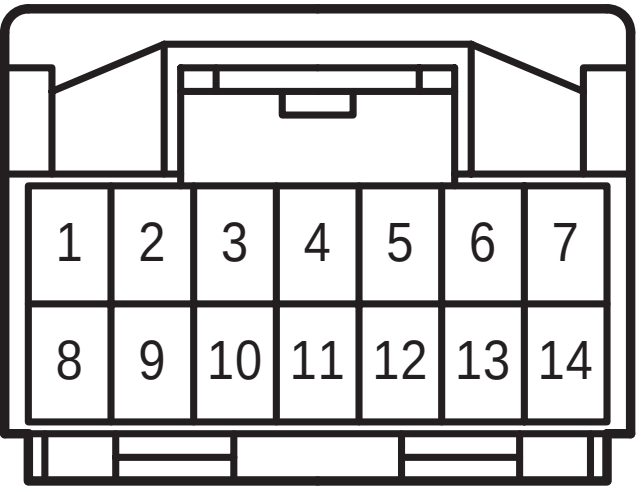
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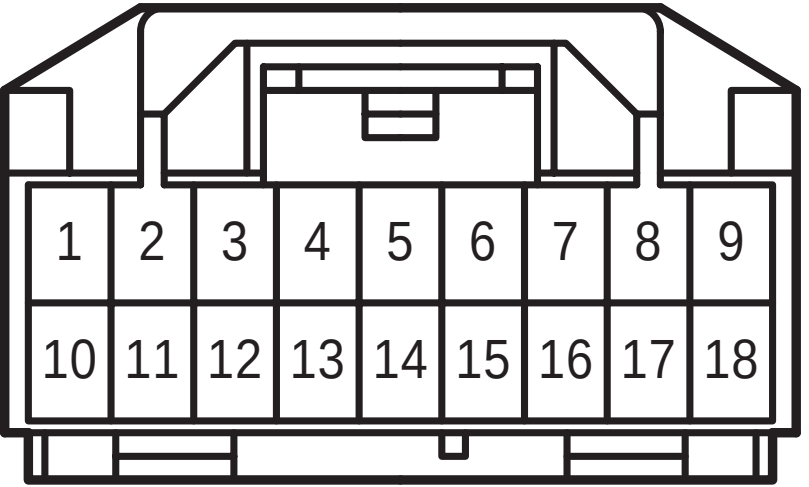
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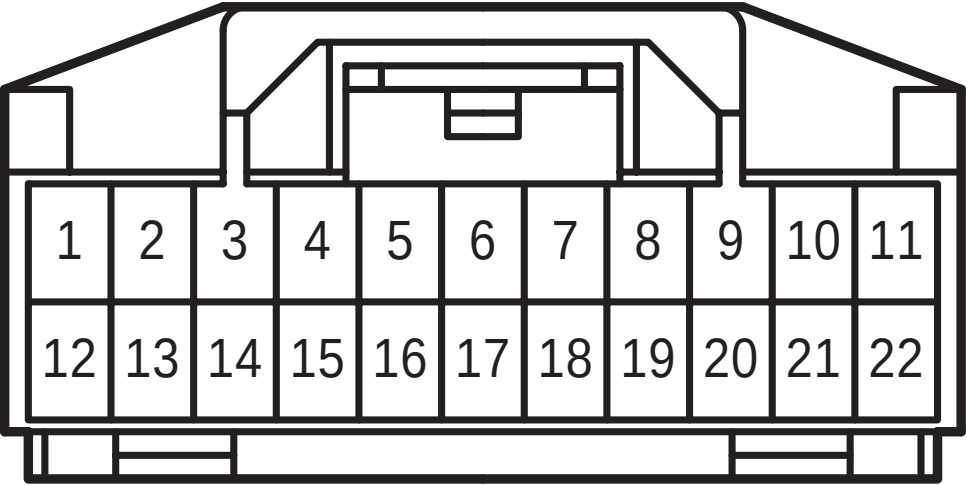
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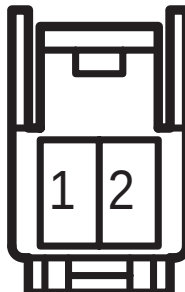
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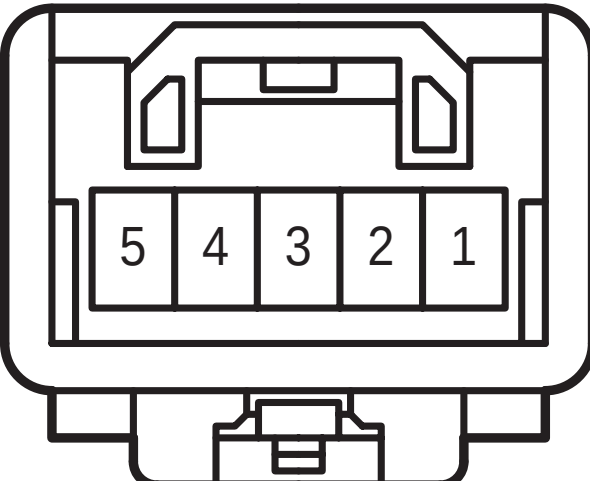
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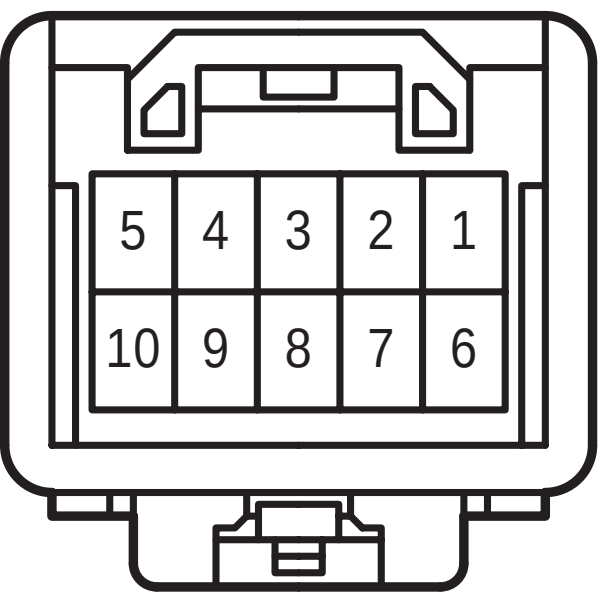
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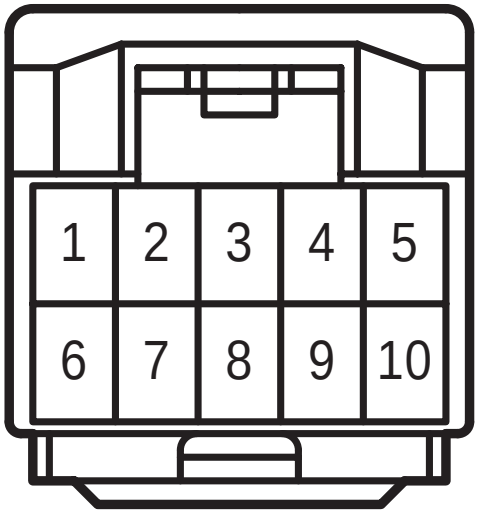
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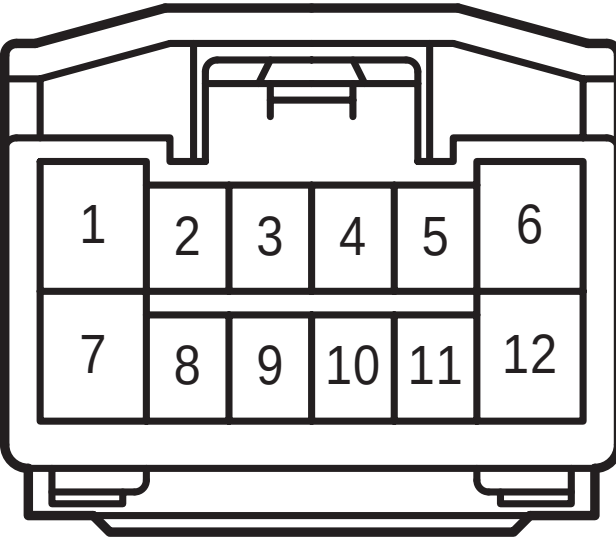
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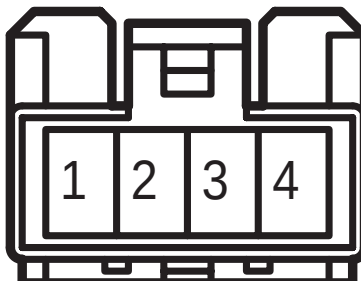
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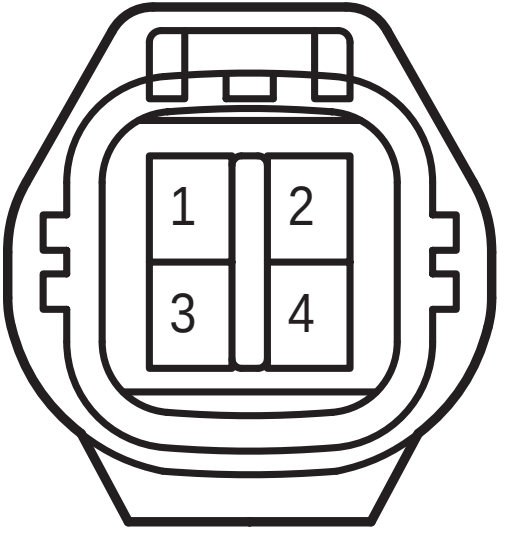
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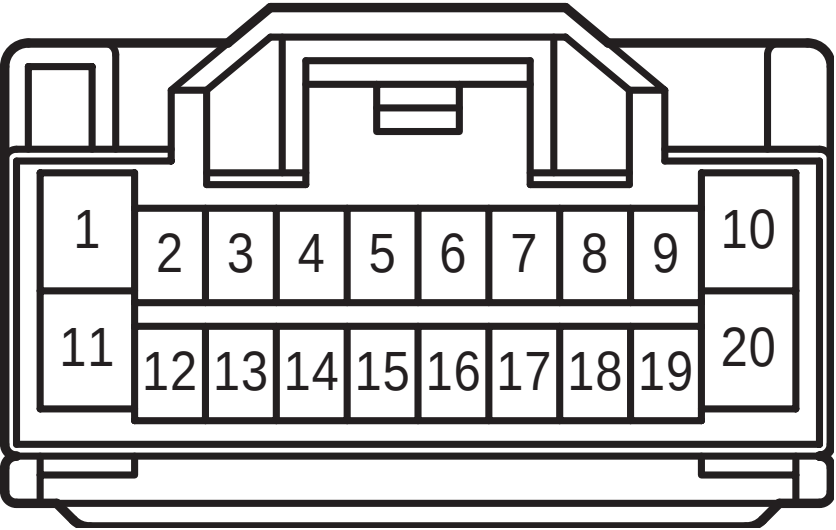
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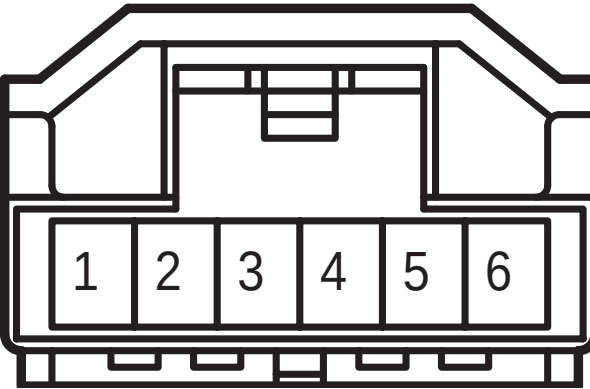
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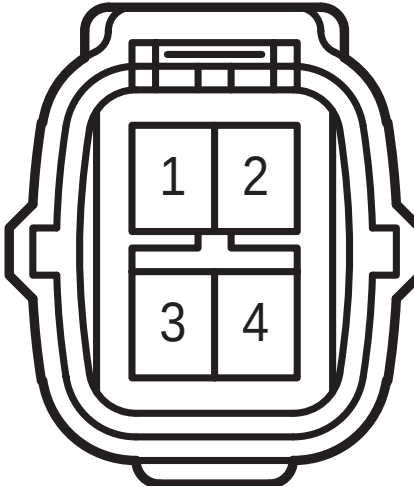
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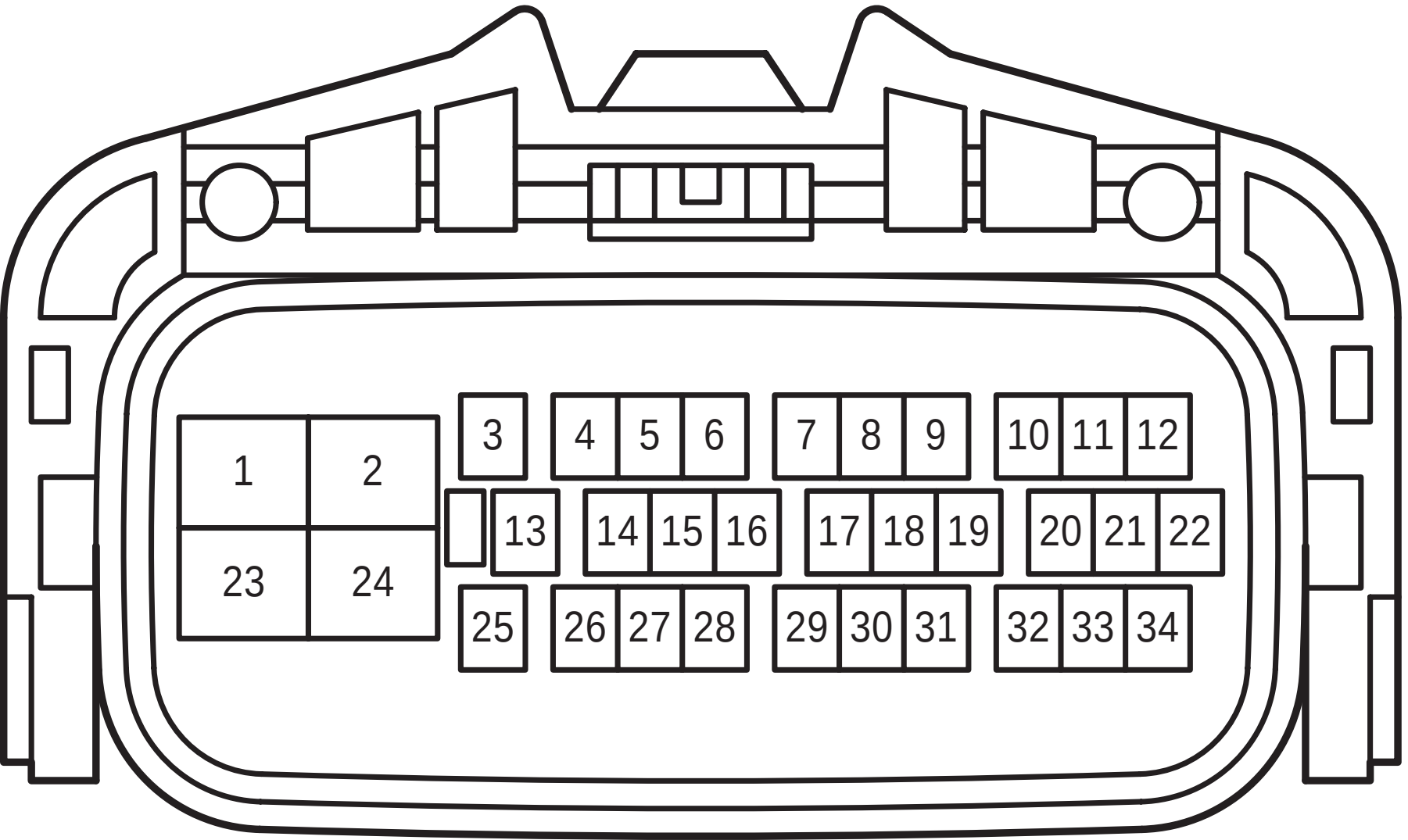
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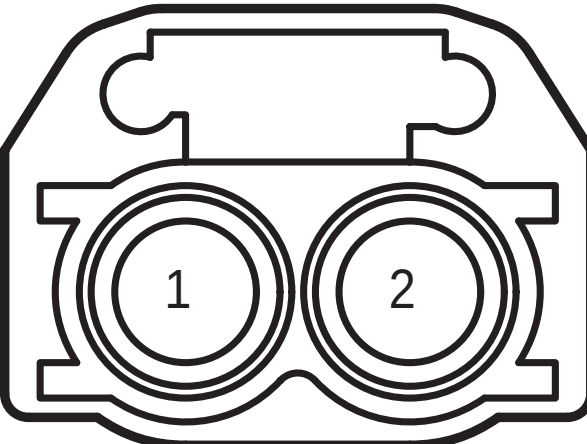
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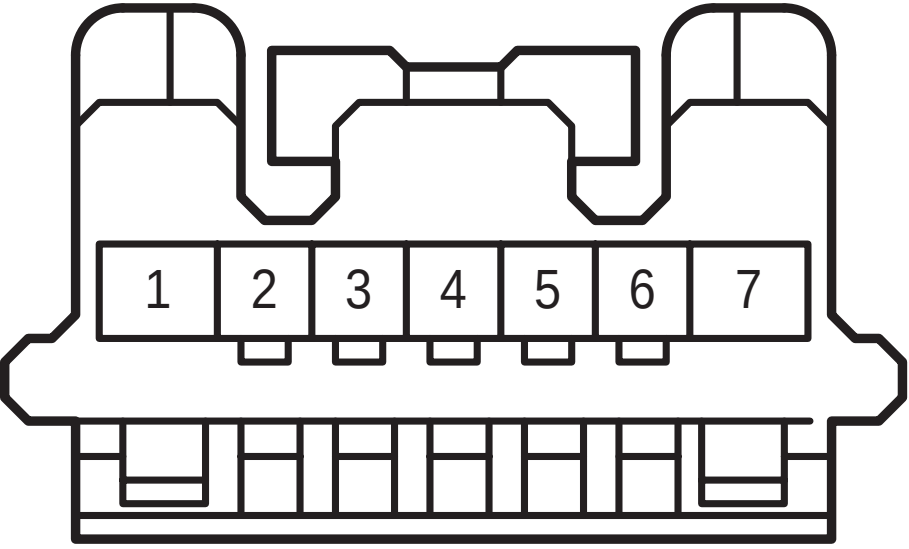
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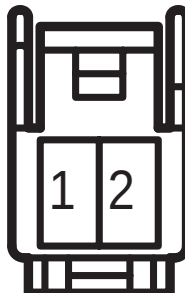
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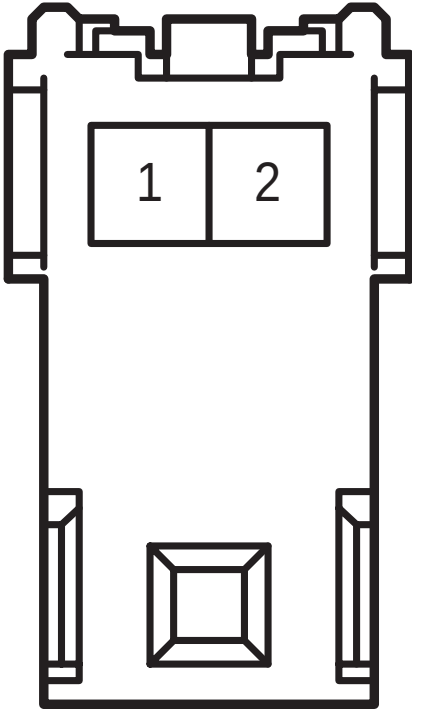
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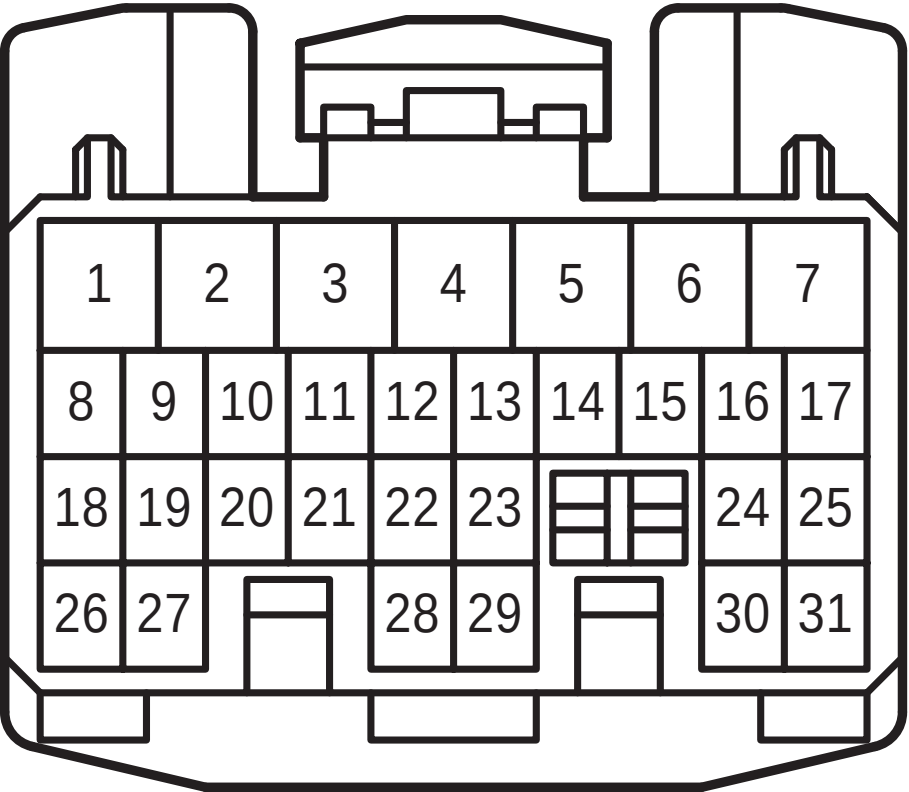
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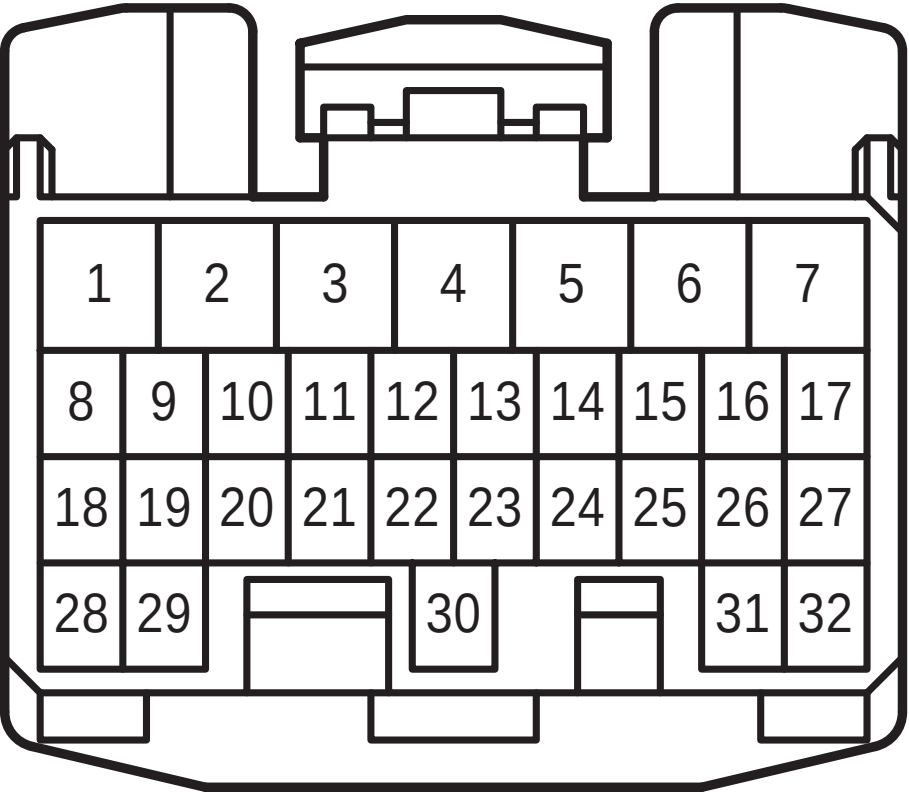
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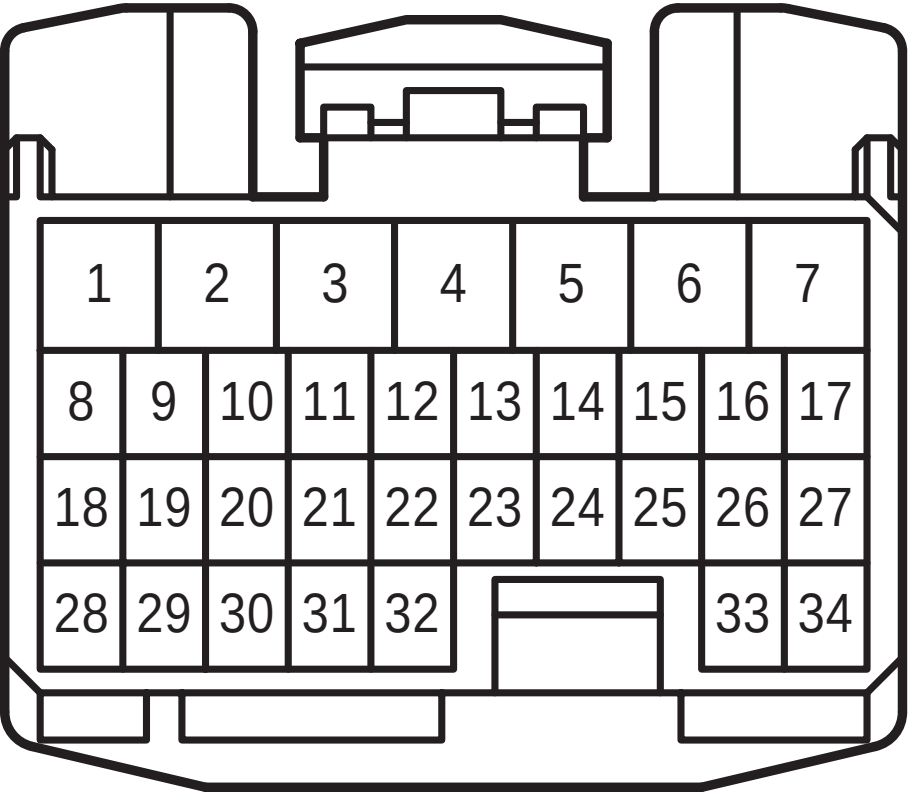
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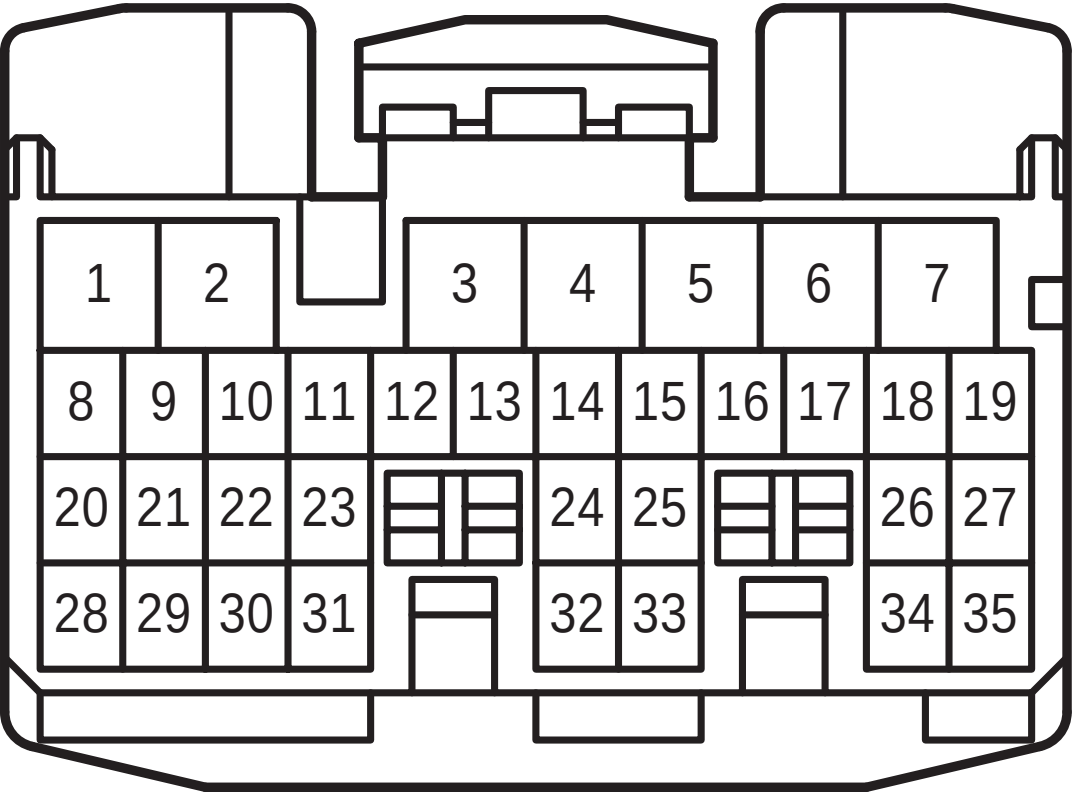
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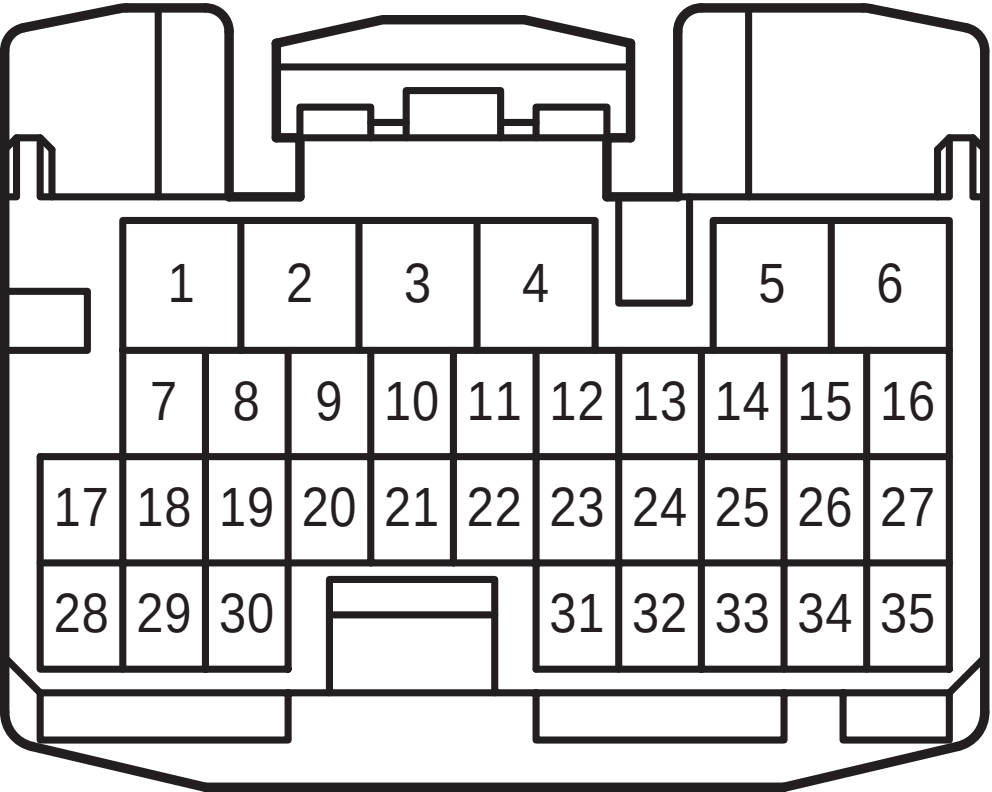
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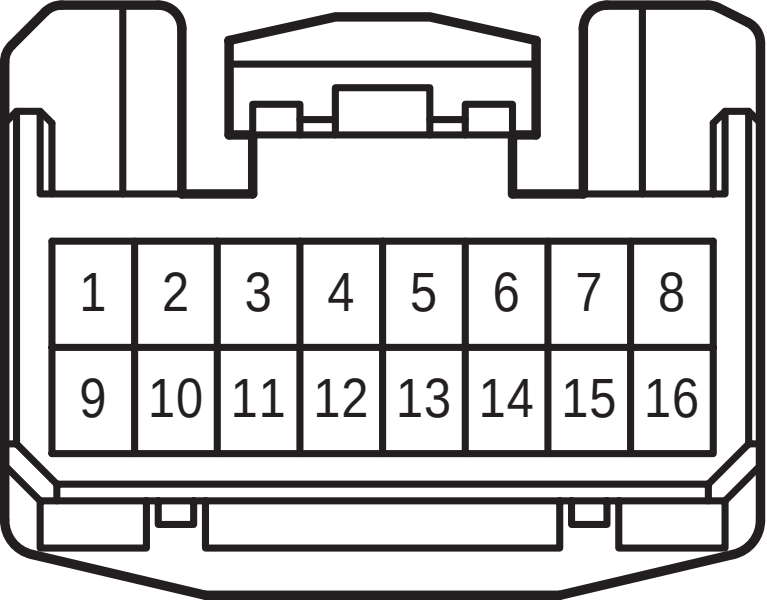
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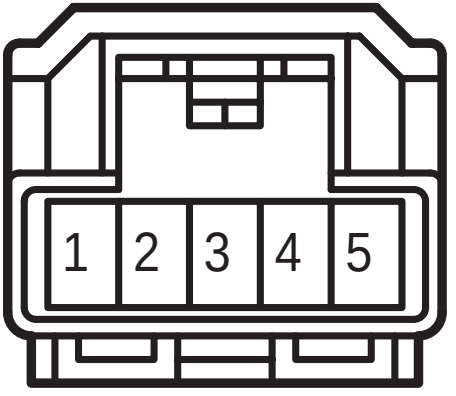
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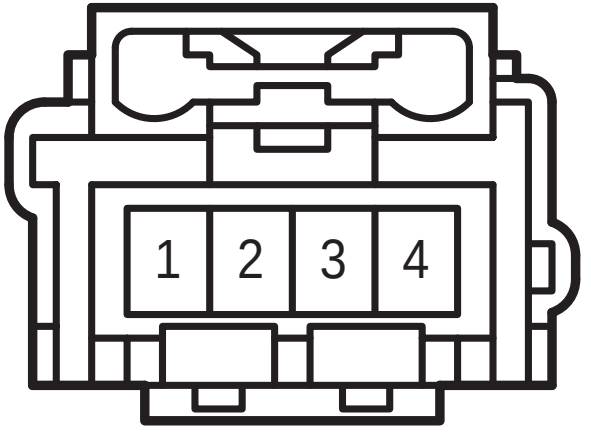
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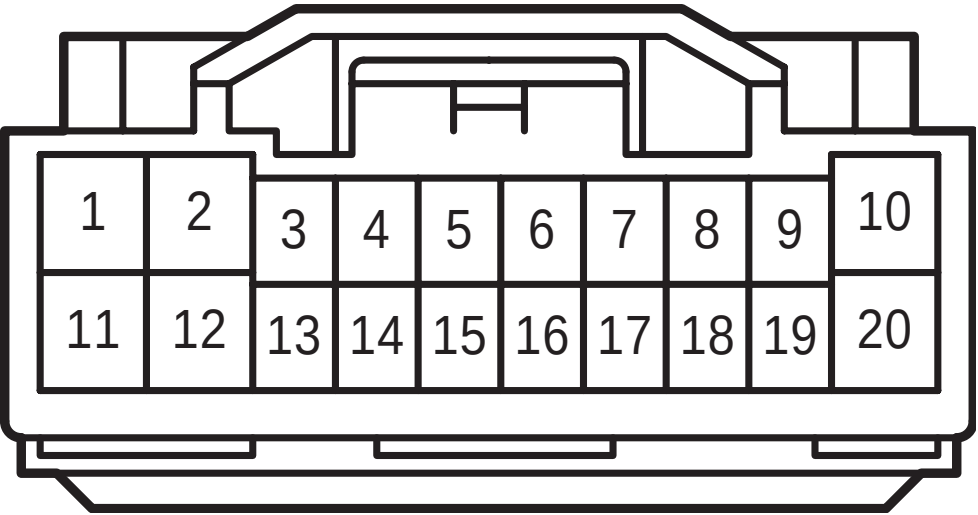
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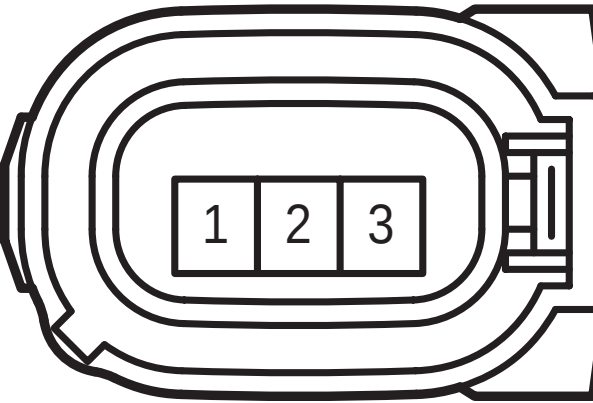
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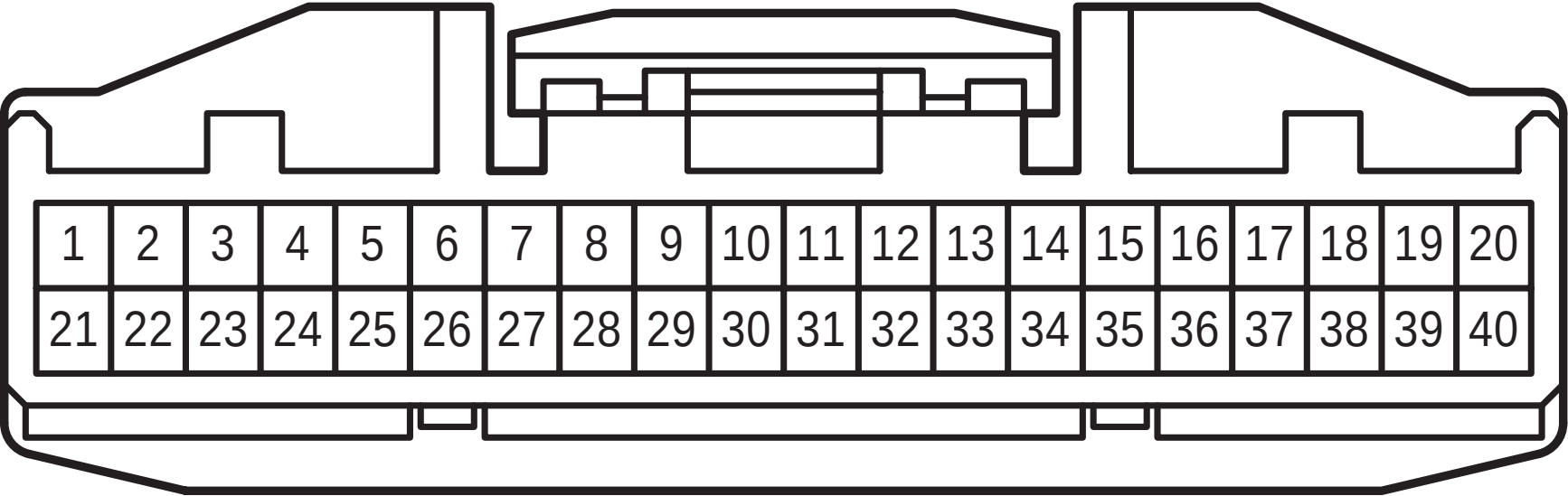
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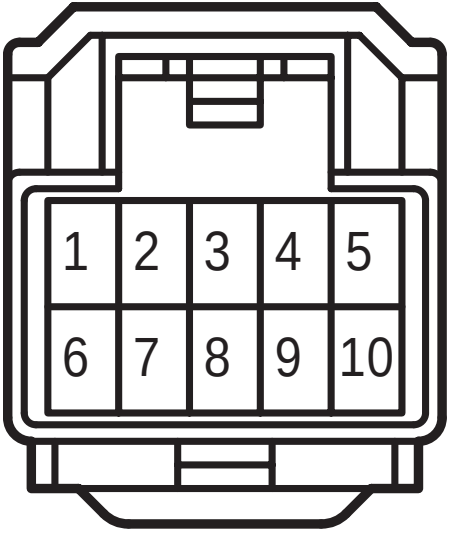
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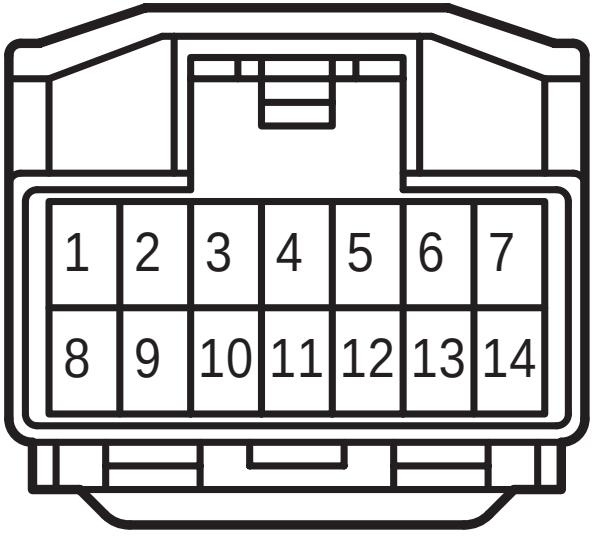
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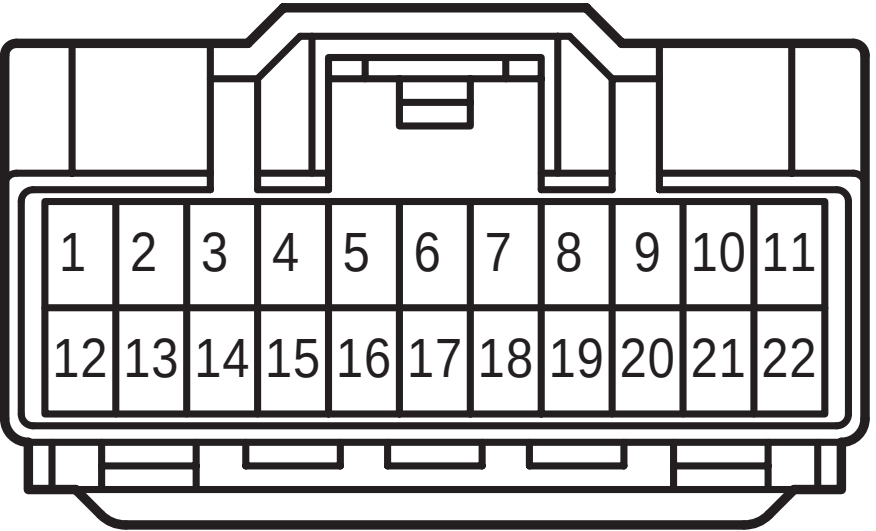
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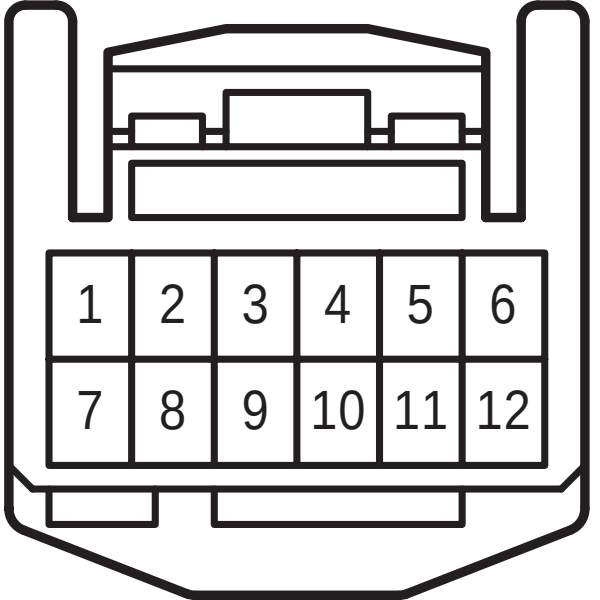
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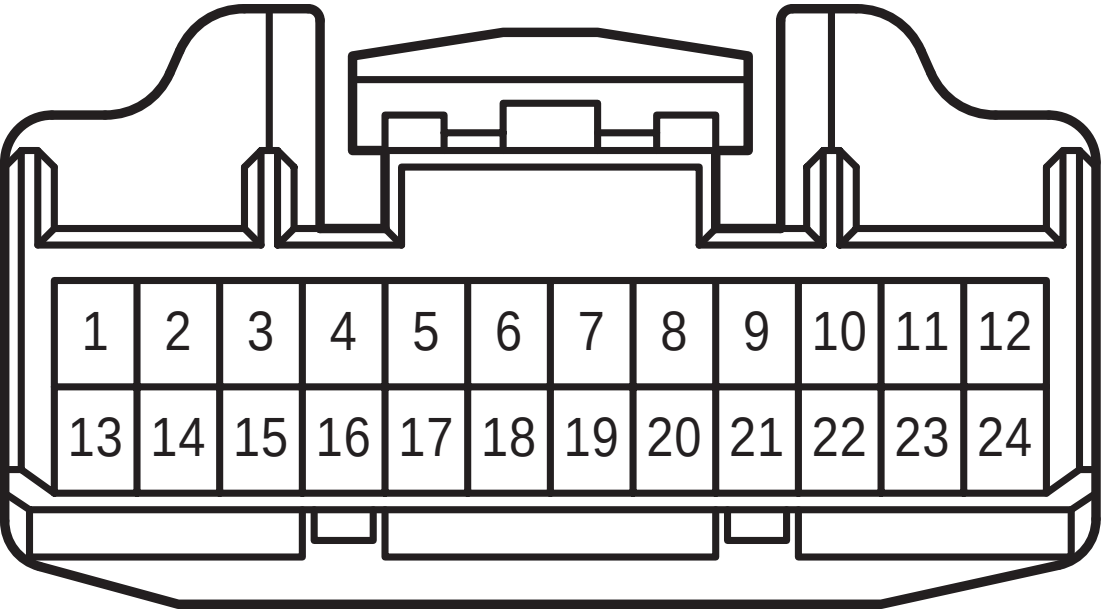
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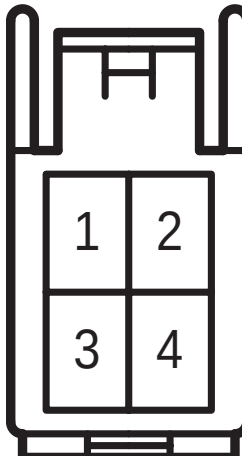
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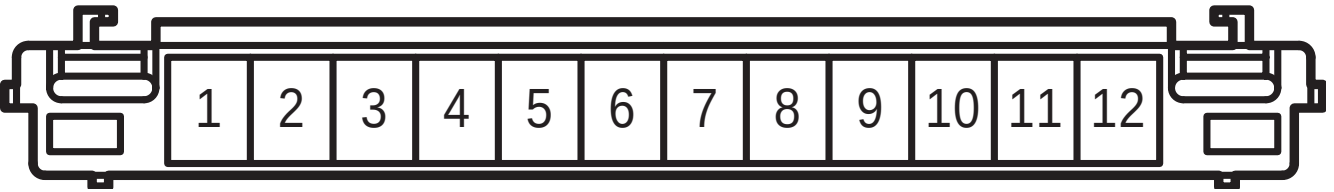
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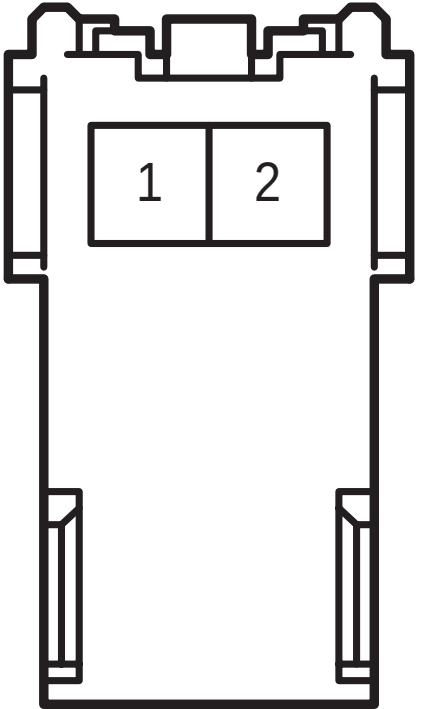
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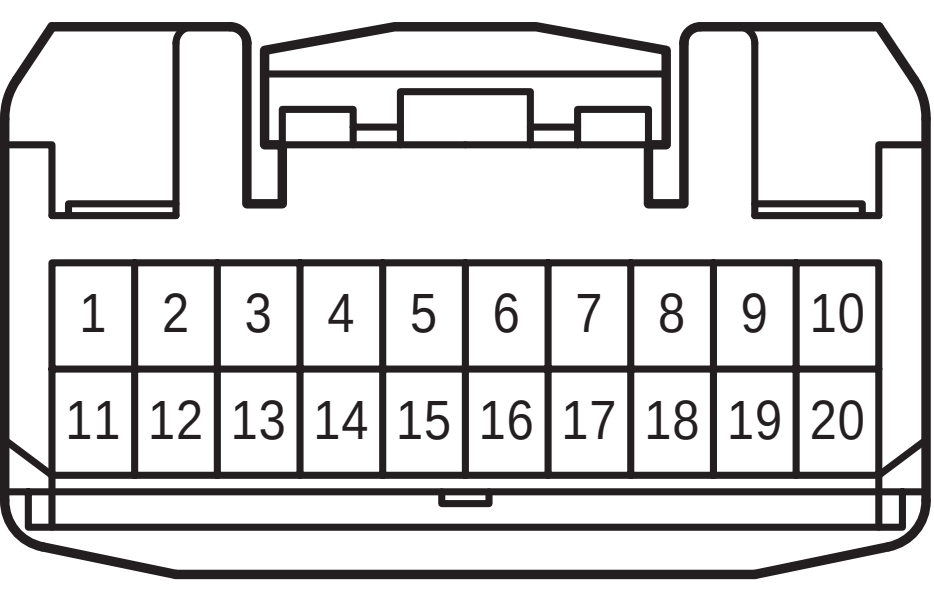
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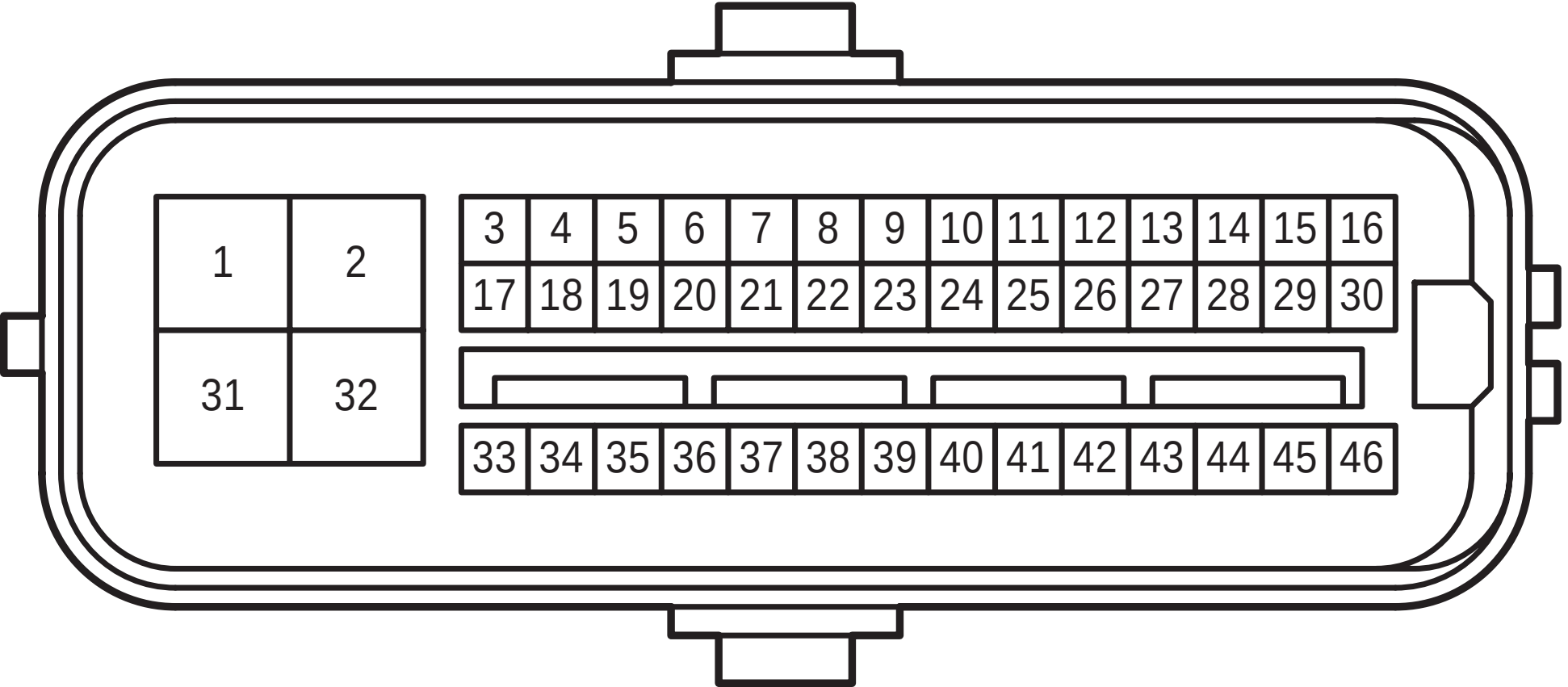
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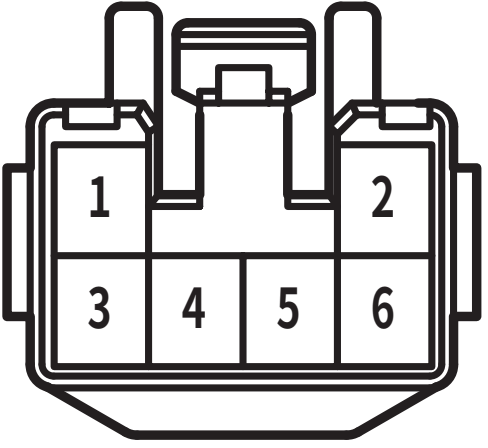
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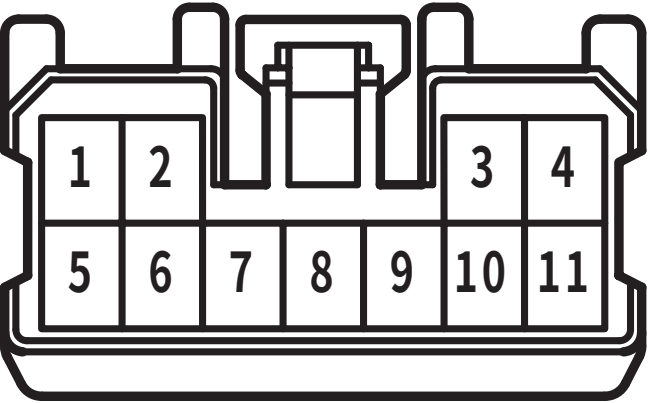
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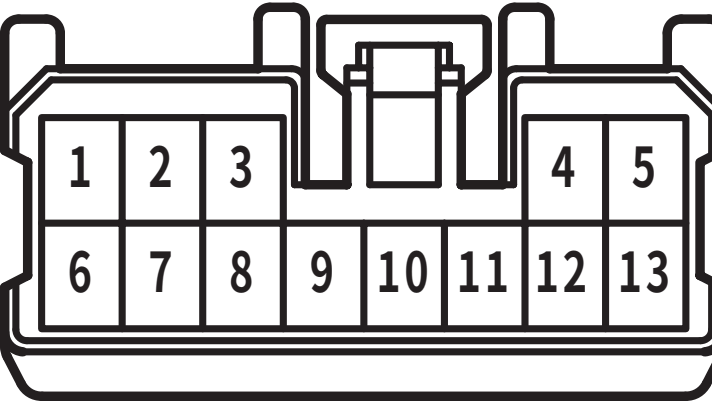
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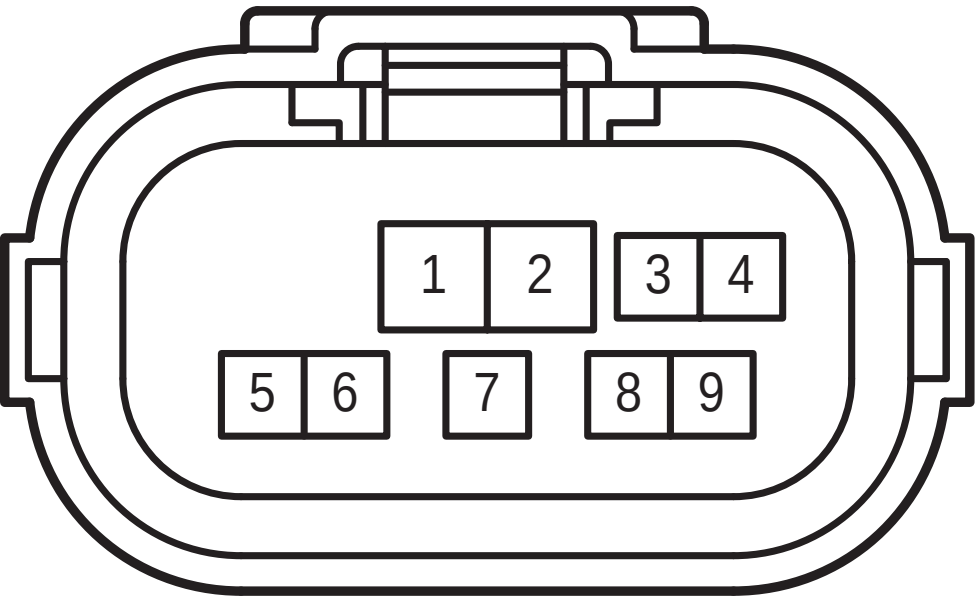
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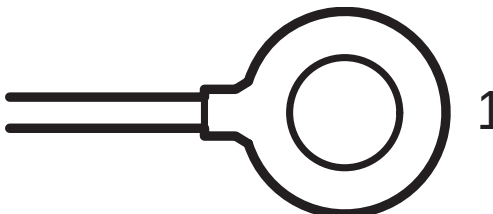
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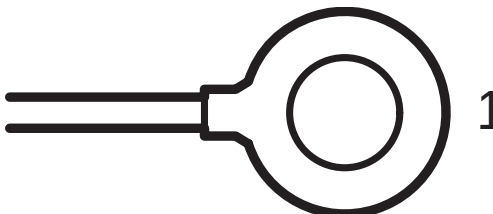
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FOREWORD

This wiring diagram manual has been prepared to provide information on the electrical system of the AVENSIS VERSO / PICNIC.

Applicable models: AMC20, CLM20 Series

For service specifications and repair procedures of the above models other than those listed in this manual, refer to the following manuals;

Manual Name	Pub. No.
● AVENSIS VERSO / PICNIC Chassis and Body Repair Manual	RM864E
● 1AZ–FE Engine Repair Manual	RM865E
● 1CD–FTV Engine Repair Manual	RM866E
● AVENSIS VERSO / PICNIC New Car Features	NCF206E

All information in this manual is based on the latest product information at the time of publication. However, specifications and procedures are subject to change without notice.

TOYOTA MOTOR CORPORATION

NOTICE

When handling supplemental restraint system components (removal, installation or inspection, etc.), always follow the direction given in the repair manuals listed above to prevent accidents and supplemental restraint system malfunction.

A INTRODUCTION

This manual consists of the following 13 sections:

No.	Section	Description
A	INDEX	Index of the contents of this manual.
	INTRODUCTION	Brief explanation of each section.
B	HOW TO USE THIS MANUAL	Instructions on how to use this manual.
C	TROUBLE–SHOOTING	Describes the basic inspection procedures for electrical circuits.
D	ABBREVIATIONS	Defines the abbreviations used in this manual.
E	GLOSSARY OF TERMS AND SYMBOLS	Defines the symbols and functions of major parts.
F	RELAY LOCATIONS	Shows position of the Electronic Control Unit, Relays, Relay Block, etc. This section is closely related to the system circuit.
G	ELECTRICAL WIRING ROUTING	Describes position of Parts Connectors, Splice points, Ground points, etc. This section is closely related to the system circuit.
H	INDEX	Index of the system circuits.
	SYSTEM CIRCUITS	Electrical circuits of each system are shown from the power supply through ground points. Wiring connections and their positions are shown and classified by code according to the connection method. (Refer to the section, ”How to use this manual”). The ”System Outline” and ”Service Hints” useful for troubleshooting are also contained in this section.
I	GROUND POINT	Shows ground positions of all parts described in this manual.
J	POWER SOURCE (Current Flow Chart)	Describes power distribution from the power supply to various electrical loads.
K	CONNECTOR LIST	Describes the form of the connectors for the parts appeared in this book. This section is closely related to the system circuit.
L	PART NUMBER OF CONNECTORS	Indicates the part number of the connectors used in this manual.
M	OVERALL ELECTRICAL WIRING DIAGRAM	Provides circuit diagrams showing the circuit connections.

This manual provides information on the electrical circuits installed on vehicles by dividing them into a circuit for each system.

The actual wiring of each system circuit is shown from the point where the power source is received from the battery as far as each ground point. (All circuit diagrams are shown with the switches in the OFF position.)

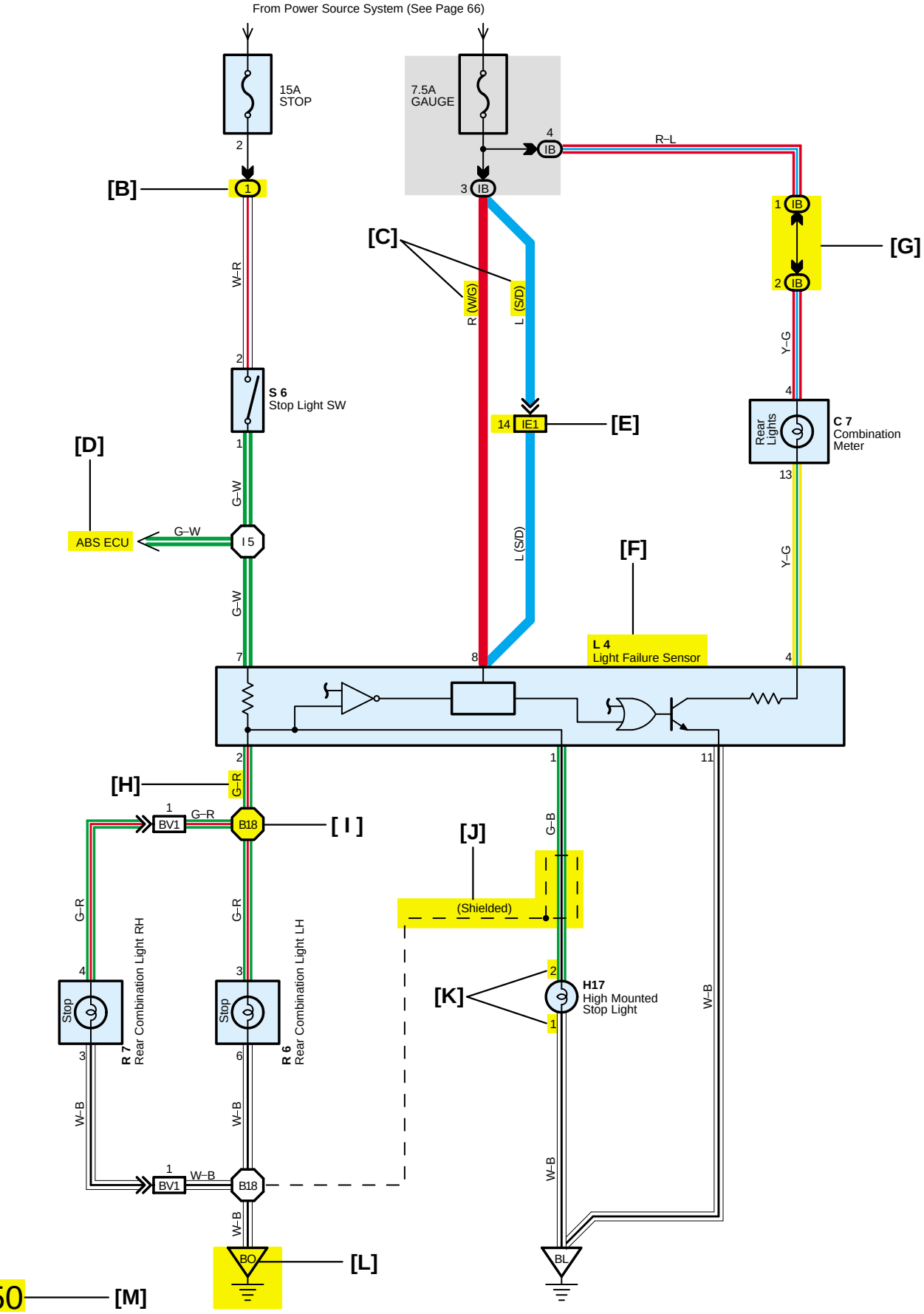
When troubleshooting any problem, first understand the operation of the circuit where the problem was detected (see System Circuit section), the power source supplying power to that circuit (see Power Source section), and the ground points (see Ground Point section). See the System Outline to understand the circuit operation.

When the circuit operation is understood, begin troubleshooting of the problem circuit to isolate the cause. Use Relay Location and Electrical Wiring Routing sections to find each part, junction block and wiring harness connectors, wiring harness and wiring harness connectors, splice points, and ground points of each system circuit. Internal wiring for each junction block is also provided for better understanding of connection within a junction block.
Wiring related to each system is indicated in each system circuit by arrows (from__, to__). When overall connections are required, see the Overall Electrical Wiring Diagram at the end of this manual.

[A]

Stop Light

* The system shown here is an EXAMPLE ONLY. It is different to the actual circuit shown in the SYSTEM CIRCUITS SECTION.



[A] : System Title

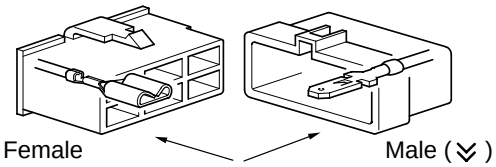
[B] : Indicates a Relay Block. No shading is used and only the Relay Block No. is shown to distinguish it from the J/B

Example: (1) Indicates Relay Block No.1

[C] : ( ) is used to indicate different wiring and connector, etc. when the vehicle model, engine type, or specification is different.

[D] : Indicates related system.

[E] : Indicates the wiring harness and wiring harness connector. The wiring harness with male terminal is shown with arrows (»).
Outside numerals are pin numbers.



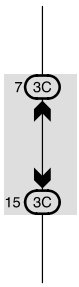
The first letter of the code for each wiring harness and wiring harness connector(s) indicates the component's location, e.g, "E" for the Engine Compartment, "I" for the Instrument Panel and Surrounding area, and "B" for the Body and Surrounding area.

When more than one code has the first and second letters in common, followed by numbers (e.g, IH1, IH2), this indicates the same type of wiring harness and wiring harness connector.

[F] : Represents a part (all parts are shown in sky blue). The code is the same as the code used in parts position.

[G] : Junction Block (The number in the circle is the J/B No. and the connector code is shown beside it). Junction Blocks are shaded to clearly separate them from other parts.

Example:



3C indicates that it is inside Junction Block No.3

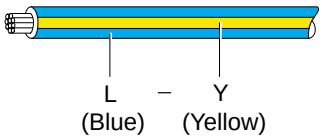
[H] : Indicates the wiring color.

Wire colors are indicated by an alphabetical code.

B	= Black	W	= White	BR	= Brown
L	= Blue	V	= Violet	SB	= Sky Blue
R	= Red	G	= Green	LG	= Light Green
P	= Pink	Y	= Yellow	GR	= Gray
O	= Orange				

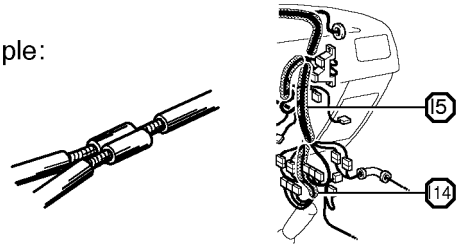
The first letter indicates the basic wire color and the second letter indicates the color of the stripe.

Example: L – Y



[I] : Indicates a wiring Splice Point (Codes are "E" for the Engine Room, "I" for the Instrument Panel, and "B" for the Body).

Example:

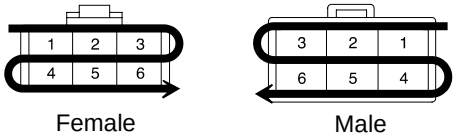


The Location of splice Point I 5 is indicated by the shaded section.

[J] : Indicates a shielded cable.

[K] : Indicates the pin number of the connector.
The numbering system is different for female and male connectors.

Example:



[L] : Indicates a ground point.

The first letter of the code for each ground point(s) indicates the component's location, e.g, "E" for the Engine Compartment, "I" for the Instrument Panel and Surrounding area, and "B" for the Body and Surrounding area.

[M] : Page No.

[N] **System Outline**

Current is applied at all times through the STOP fuse to TERMINAL 2 of the stop light SW.
When the ignition SW is turned on, current flows from the GAUGE fuse to TERMINAL 8 of the light failure sensor, and also flows through the rear lights warning light to TERMINAL 4 of the light failure sensor.

Stop Light Disconnection Warning

When the ignition SW is turned on and the brake pedal is pressed (Stop light SW on), if the stop light circuit is open, the current flowing from TERMINAL 7 of the light failure sensor to TERMINALS 1, 2 changes, so the light failure sensor detects the disconnection and the warning circuit of the light failure sensor is activated.
As a result, the current flows from TERMINAL 4 of the light failure sensor to TERMINAL 11 to GROUND and turns the rear lights warning light on. By pressing the brake pedal, the current flowing to TERMINAL 8 of the light failure sensor keeps the warning circuit on and holds the warning light on until the ignition SW is turned off.

[O] **Service Hints**

S6 Stop Light SW

2–1 : Closed with the brake pedal depressed

L4 Light Failure Sensor

1, 2, 7–Ground : Approx. **12** volts with the stop light SW on
4, 8–Ground : Approx. **12** volts with the ignition SW at **ON** position
11–Ground : Always continuity

[P] **: Parts Location**

Code	See Page	Code	See Page	Code	See Page
C7	34	L4	36	R7	37
H17	36	R6	37	S6	35

[Q] **: Relay Blocks**

Code	See Page	Relay Blocks (Relay Block Location)
1	18	R/B No.1 (Instrument Panel Brace LH)

[R] **: Junction Block and Wire Harness Connector**

Code	See Page	Junction Block and Wire Harness (Connector Location)
IB	20	Instrument Panel Wire and Instrument Panel J/B (Lower Finish Panel)
3C	22	Instrument Panel Wire and J/B No.3 (Instrument Panel Brace LH)

[S] **: Connector Joining Wire Harness and Wire Harness**

Code	See Page	Joining Wire Harness and Wire Harness (Connector Location)
IE1	42	Floor Wire and Instrument Panel Wire (Left Kick Panel)
BV1	50	Luggage Room Wire and Floor Wire (Luggage Room Left)

[T] **: Ground Points**

Code	See Page	Ground Points Location
BL	50	Under the Left Center Pillar
BO	50	Back Panel Center

[U] **: Splice Points**

Code	See Page	Wire Harness with Splice Points	Code	See Page	Wire Harness with Splice Points
I5	44	Cowl Wire	B18	50	Luggage Room Wire

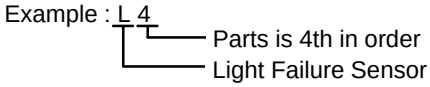
[N] : Explains the system outline.

[O] : Indicates values or explains the function for reference during troubleshooting.

[P] : Indicates the reference page showing the position on the vehicle of the parts in the system circuit.

Example : Part ”L4” (Light Failure Sensor) is on page 36 of the manual.

∗ The letter in the code is from the first letter of the part, and the number indicates its order in parts starting with that letter.



[Q] : Indicates the reference page showing the position on the vehicle of Relay Block Connectors in the system circuit.

Example : Connector ”1” is described on page 18 of this manual and is installed on the left side of the instrument panel.

[R] : Indicates the reference page showing the position on the vehicle of J/B and Wire Harness in the system circuit.

Example : Connector ”3C” connects the Instrument Panel Wire and J/B No.3. It is described on page 22 of this manual, and is installed on the instrument panel left side.

[S] : Indicates the reference page describing the wiring harness and wiring harness connector (the female wiring harness is shown first, followed by the male wiring harness).

Example : Connector ”IE1” connects the floor wire (female) and Instrument panel wire (male). It is described on page 42 of this manual, and is installed on the left side kick panel.

[T] : Indicates the reference page showing the position of the ground points on the vehicle.

Example : Ground point ”BO” is described on page 50 of this manual and is installed on the back panel center.

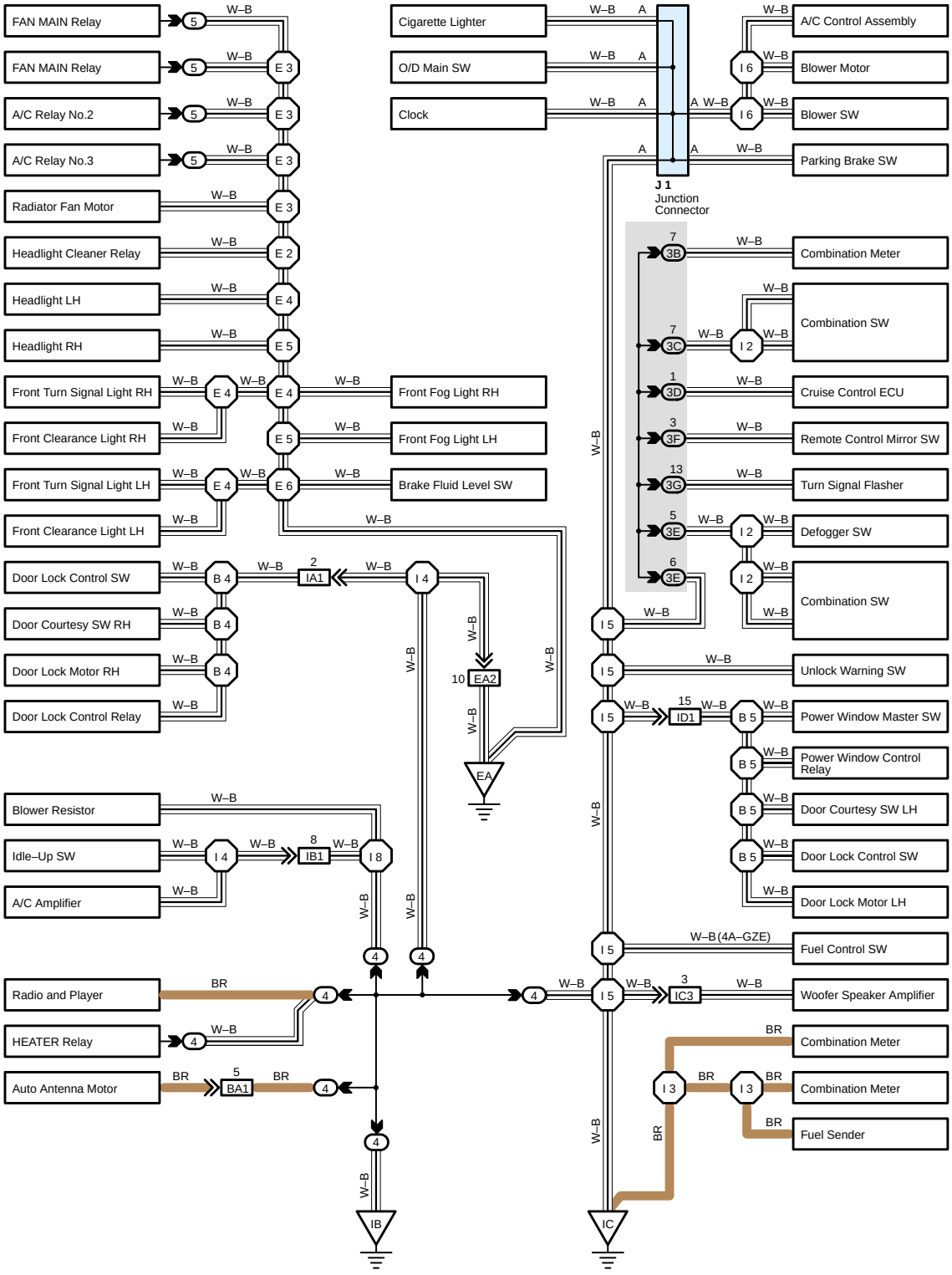
[U] : Indicates the reference page showing the position of the splice points on the vehicle.

Example : Splice point ”I5” is on the Cowl Wire Harness and is described on page 44 of this manual.

B HOW TO USE THIS MANUAL

The ground points circuit diagram shows the connections from all major parts to the respective ground points. When troubleshooting a faulty ground point, checking the system circuits which use a common ground may help you identify the problem ground quickly. The relationship between ground points (EA, IB and IC shown below) can also be checked this way.

I GROUND POINT

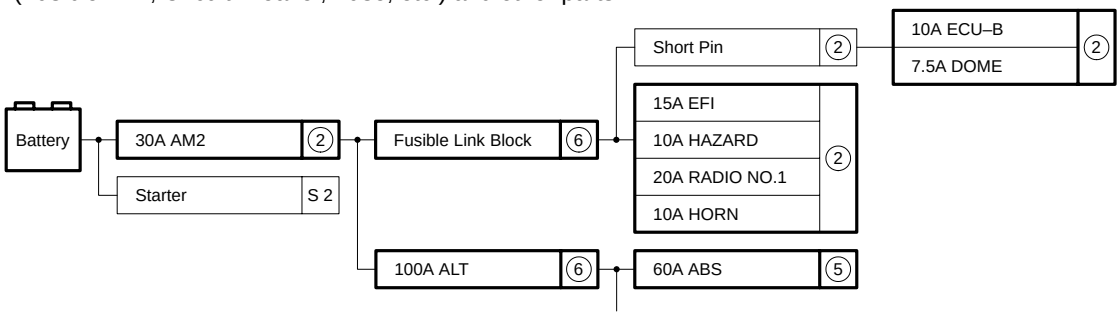


* The system shown here is an EXAMPLE ONLY. It is different to the actual circuit shown in the SYSTEM CIRCUITS SECTION.

The ”Current Flow Chart” section, describes which parts each power source (fuses, fusible links, and circuit breakers) transmits current to. In the Power Source circuit diagram, the conditions when battery power is supplied to each system are explained. Since all System Circuit diagrams start from the power source, the power source system must be fully understood.

J POWER SOURCE (Current Flow Chart)

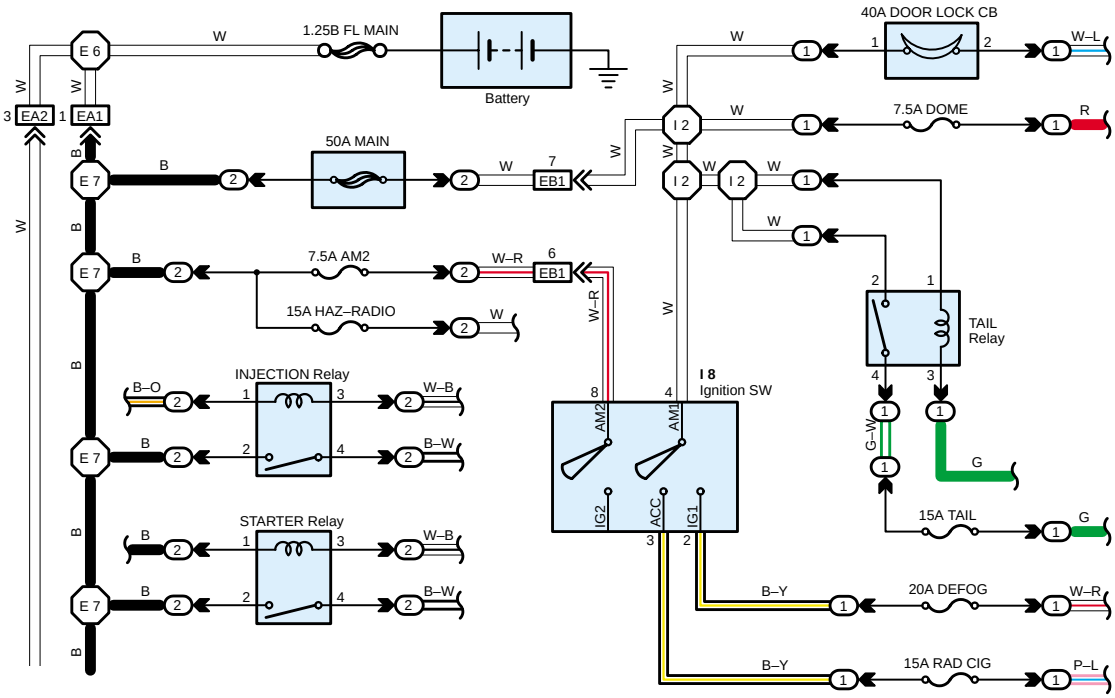
The chart below shows the route by which current flows from the battery to each electrical source (Fusible Link, Circuit Breaker, Fuse, etc.) and other parts.



Engine Room R/B (See Page 20)

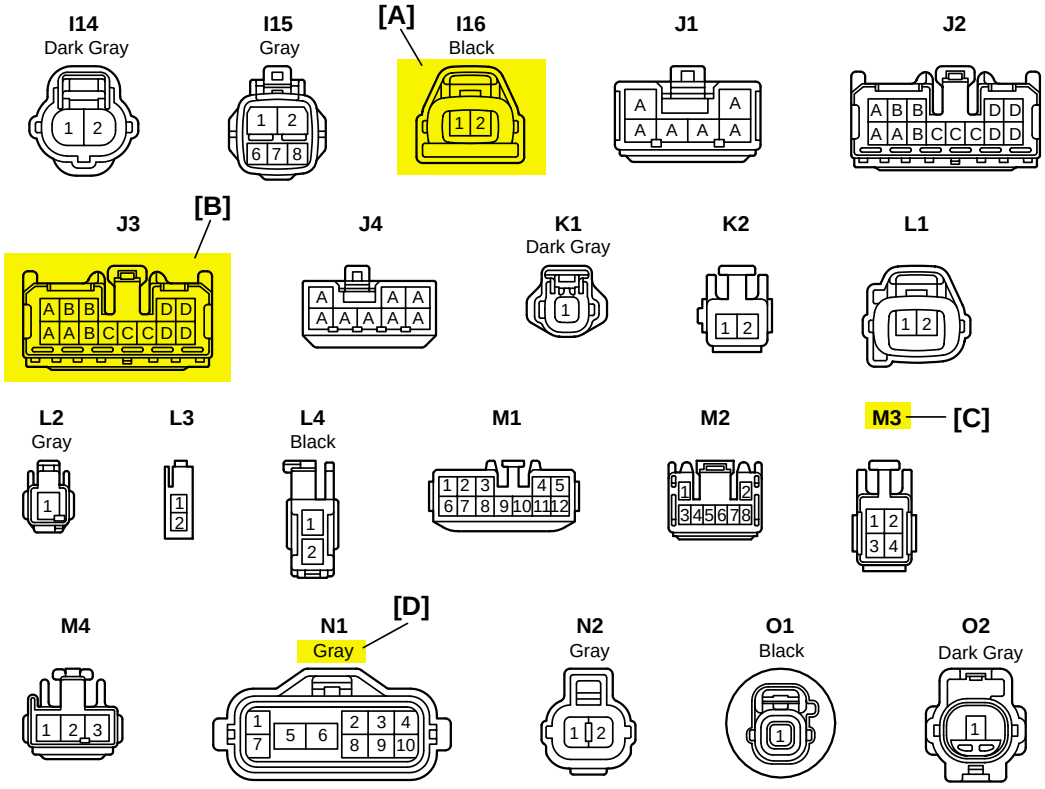
Fuse		System	Page
20A	STOP	ABS ABS and Traction Control Cruise Control Electronically Controlled Transmission Multiplex Communication System	194 187 180 166 210
10A	DOME	Cigarette Lighter Combination Meter Headlight Interior Light Key Reminder and Seat Belt Warning Light Auto Turn Off	214 230 112 122

Power Source



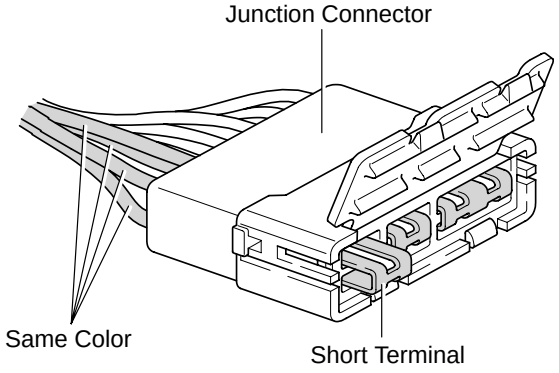
* The system shown here is an EXAMPLE ONLY. It is different to the actual circuit shown in the SYSTEM CIRCUITS SECTION.

K CONNECTOR LIST



[A] : Indicates connector to be connected to a part. (The numeral indicates the pin No.)

[B] : Junction Connector
Indicates a connector which is connected to a short terminal.



Junction connector in this manual include a short terminal which is connected to a number of wire harnesses. Always perform inspection with the short terminal installed. (When installing the wire harnesses, the harnesses can be connected to any position within the short terminal grouping. Accordingly, in other vehicles, the same position in the short terminal may be connected to a wire harness from a different part.)
Wire harness sharing the same short terminal grouping have the same color.

[C] : Parts Code
The first letter of the code is taken from the first letter of part, and the numbers indicates its order in parts which start with the same letter.

[D] : Connector Color
Connectors not indicated are milky white in color.

L PART NUMBER OF CONNECTORS

Code	Part Name	Part Number
A 1	A/C Ambient Temp. Sensor	90980–11070
A 2	A/C Condenser Fan Motor	90980–11237
A 3	A/C Condenser Fan Relay	90980–10940
A 4	A/C Condenser Fan Resistor	90980–10928
A 5	A/C Magnetic Clutch	90980–11271
A 6	A/T Oil Temp. Sensor	90980–11413
[A]	[B]	[C]
A 8	ABS Actuator	90980–11009
A 9	ABS Speed Sensor Front LH	90980–10941
A10	ABS Speed Sensor Front RH	90980–11002
A11	Airbag Sensor Front LH	90980–11856
A12	Airbag Sensor Front RH	
A13		90980–11194
		90980–11

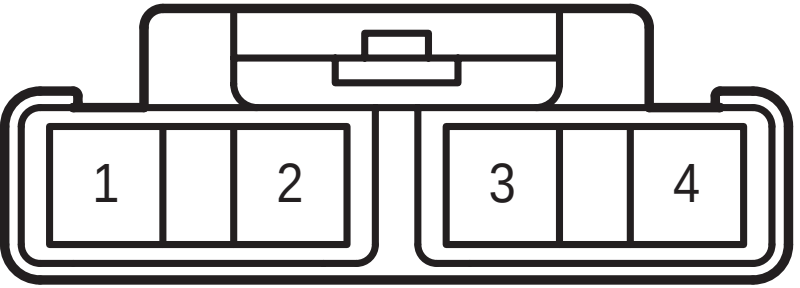
Code	Part Name	Part Number
D 4	Diode (Courtesy)	90980–11608
D 5	Diode (Interior Light)	90980–10962
D 6	Diode (Moon Roof)	90980–11608
D 7	Door Lock Control Relay	90980–10848
D 8	Door Lock Control SW LH	90980–11148
D 9	Door Lock Control SW RH	
D10	Door Courtesy SW LH	90980–11097
D11	Door Courtesy SW RH	
D12	Door Courtesy SW Front LH	90980–11156
D13	Door Courtesy SW Front RH	
D14	Door Courtesy SW Rear LH	
D15	Door Courtesy SW Rear RH	
D16	and Unlock SW LH	90980–11170
	RH	

[A] : Part Code

[B] : Part Name

[C] : Part Number
Toyota Part Number are indicated.

Not all of the above part numbers of the connector are established for the supply. In case of ordering a connector or terminal with wire, please confirm in advance if there is supply for it using “Parts Catalog News” (published by Parts Engineering Administration Dept.).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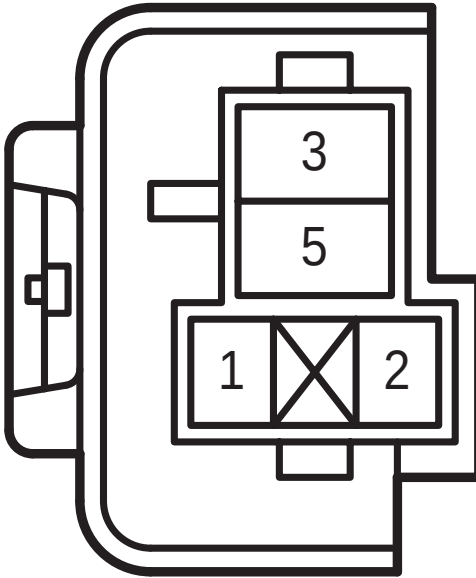
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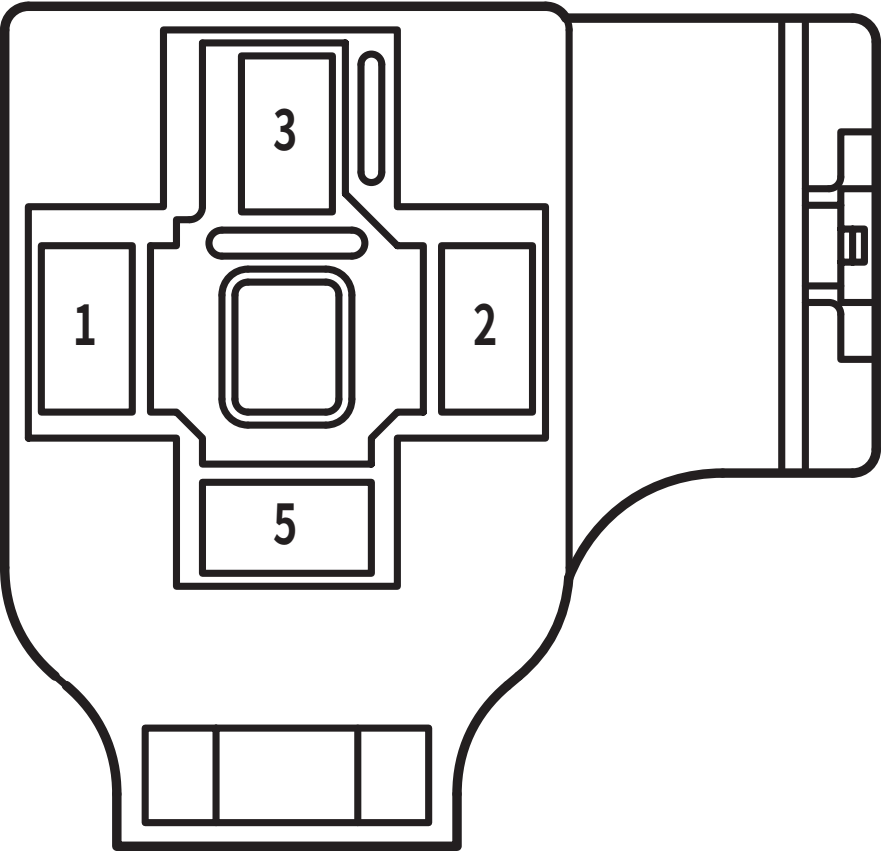
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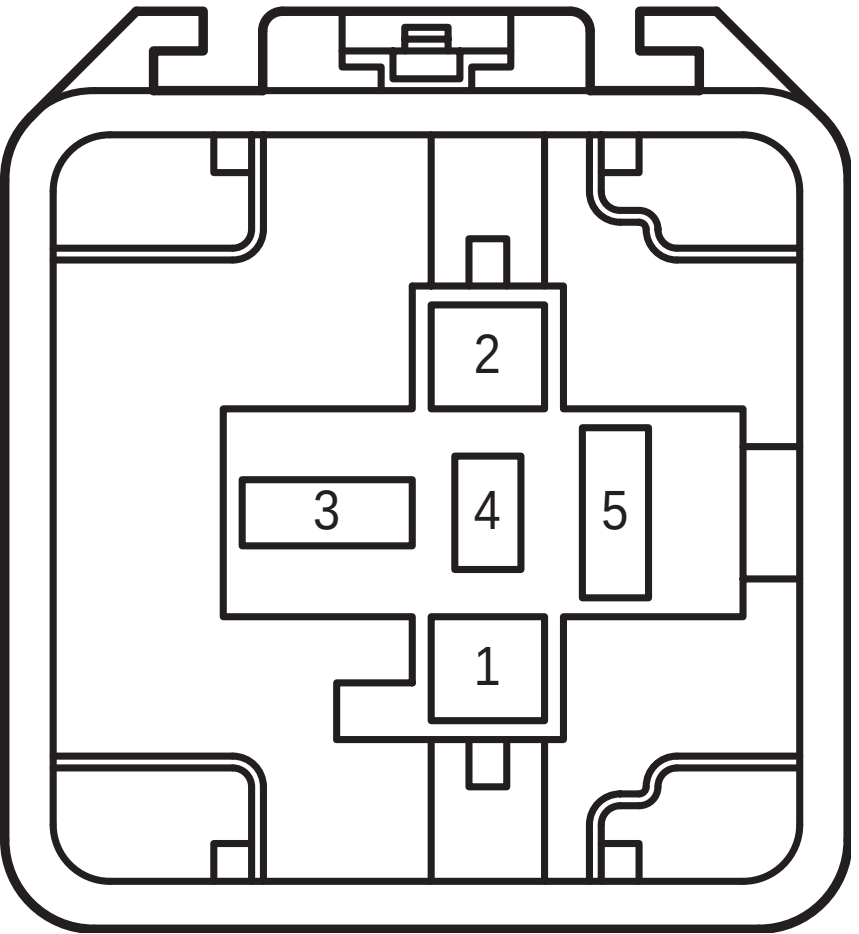
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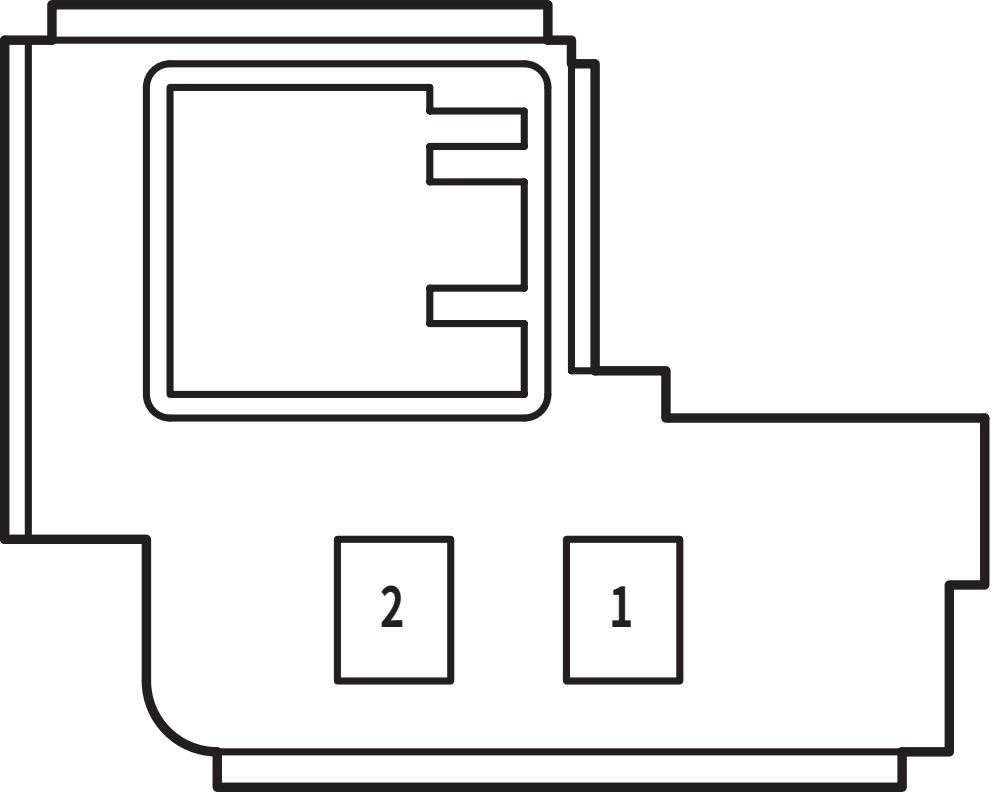
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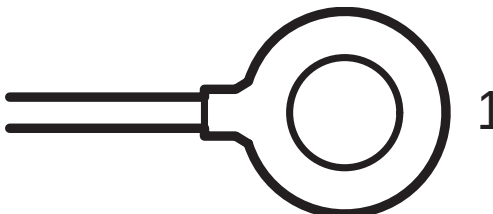
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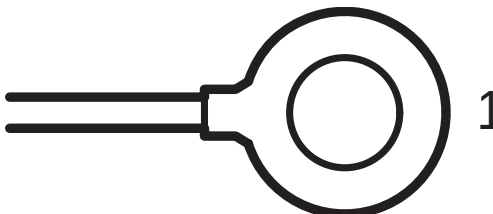
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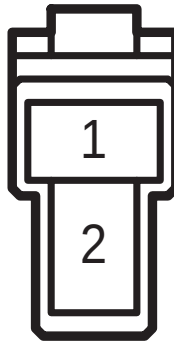
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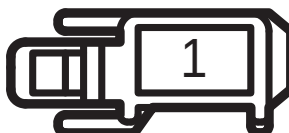
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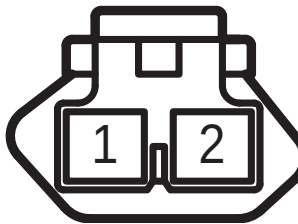
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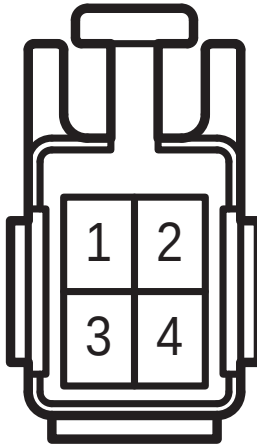
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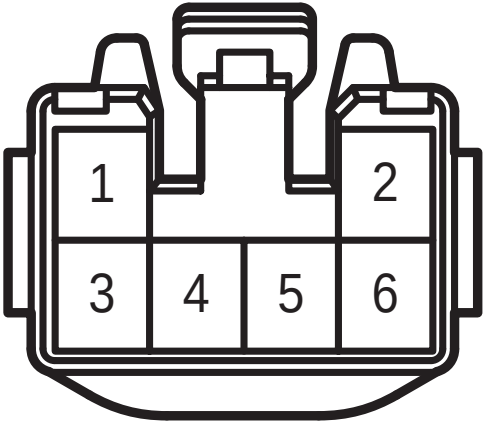
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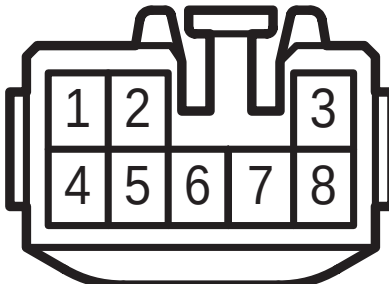
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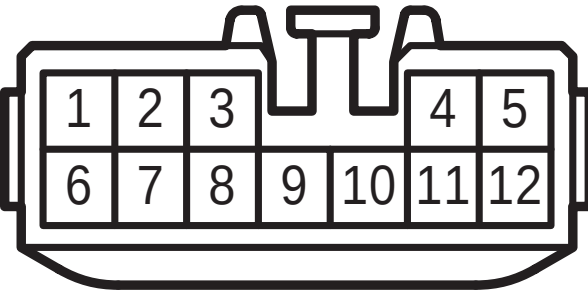
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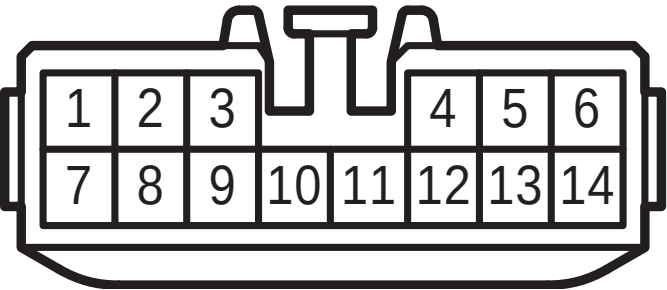
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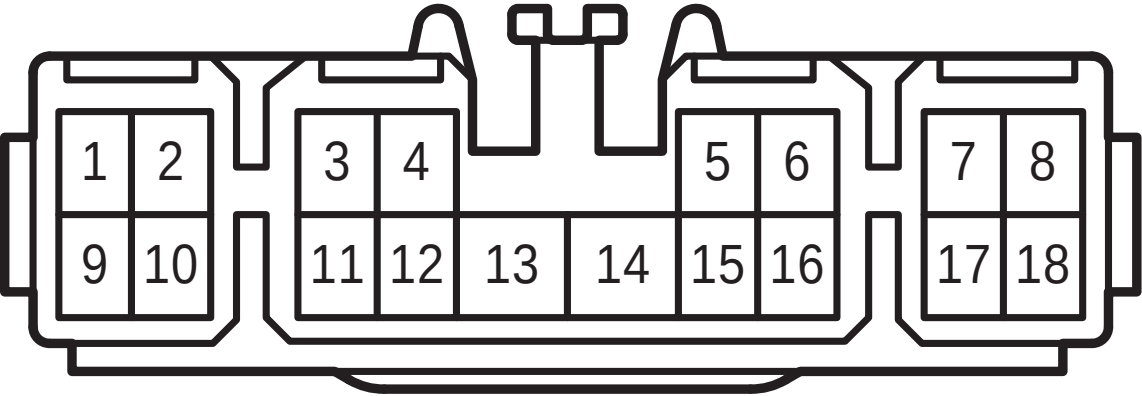
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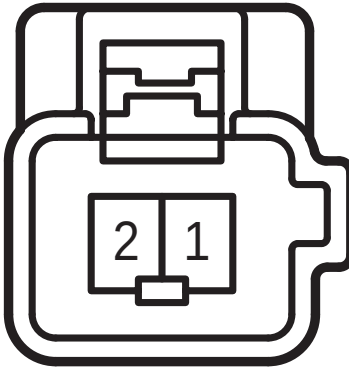
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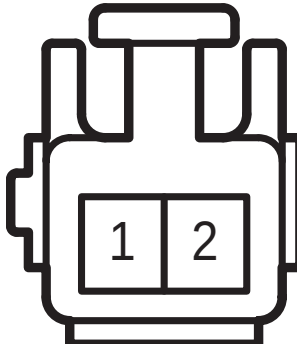
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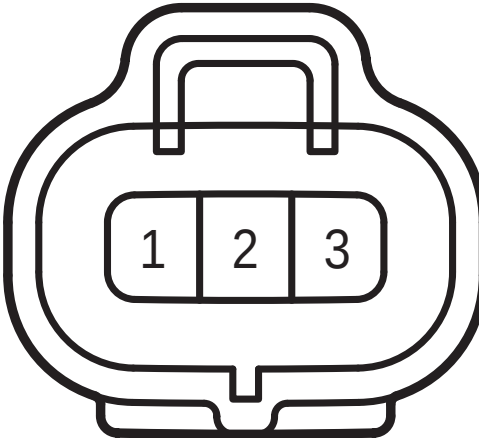
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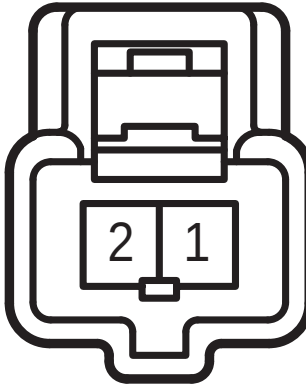
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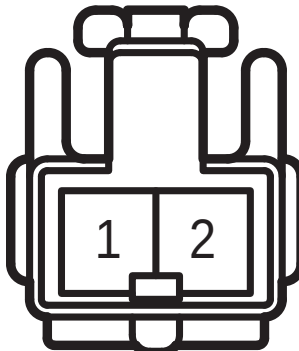
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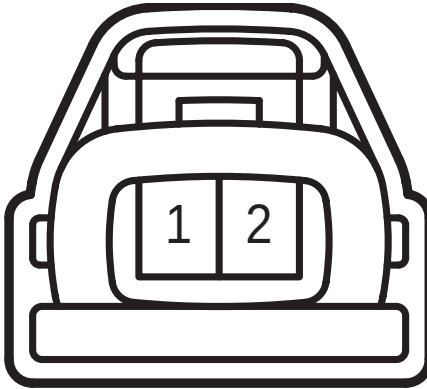
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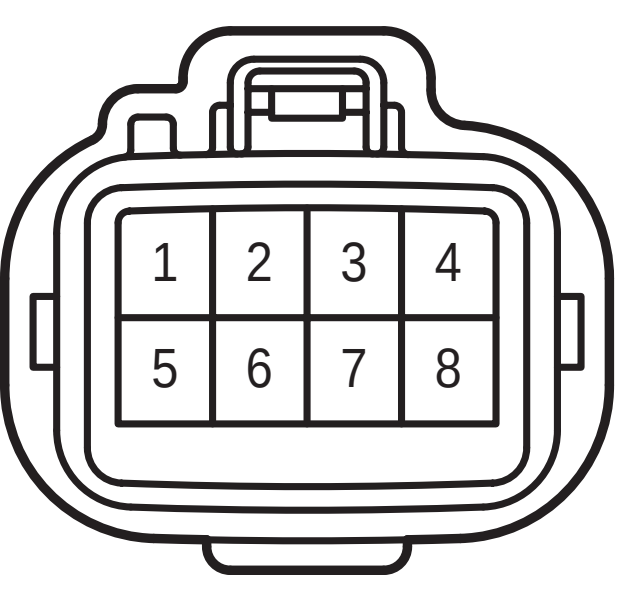
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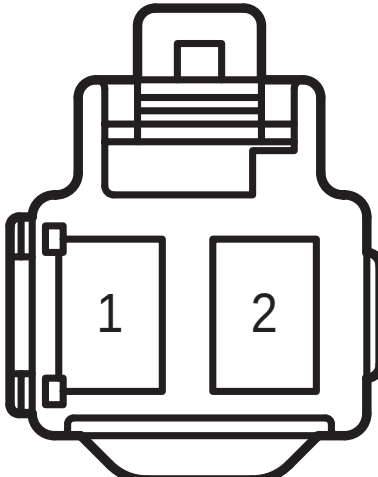
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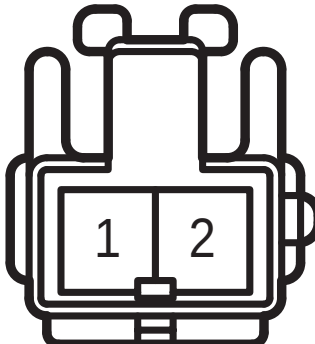
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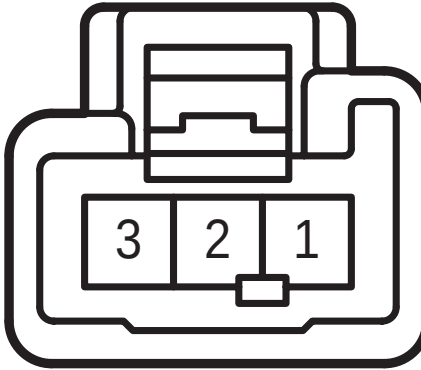
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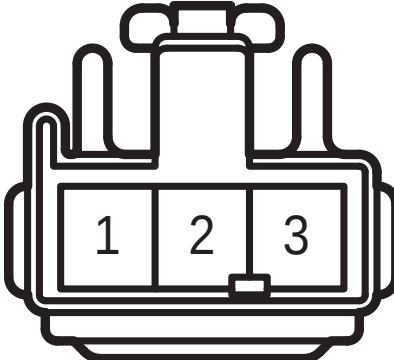
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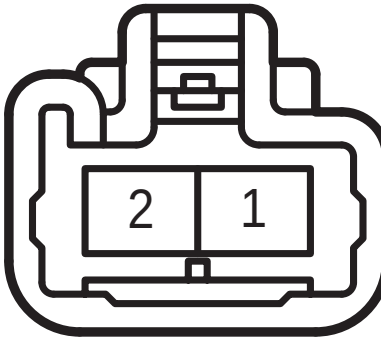
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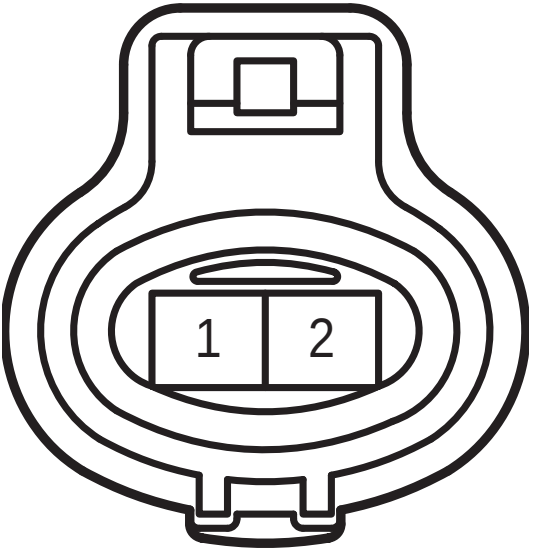
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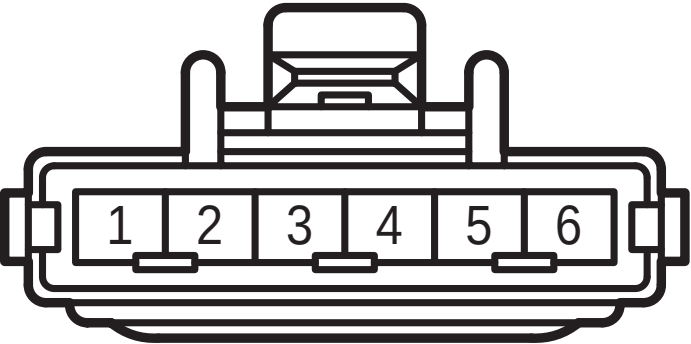
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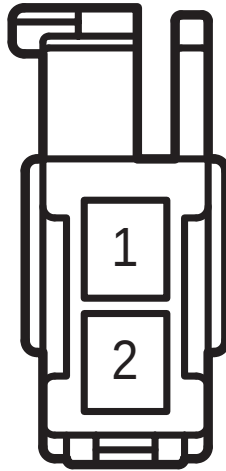
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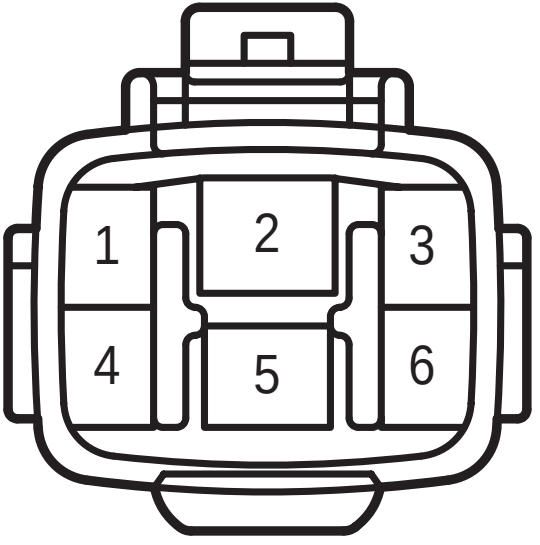
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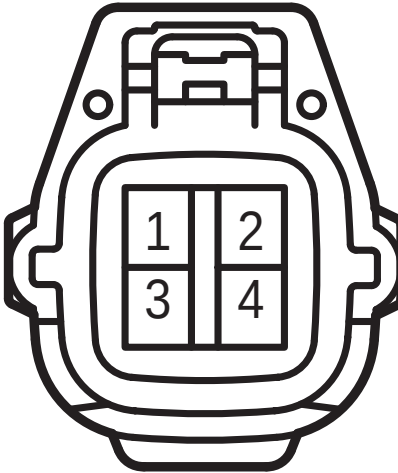
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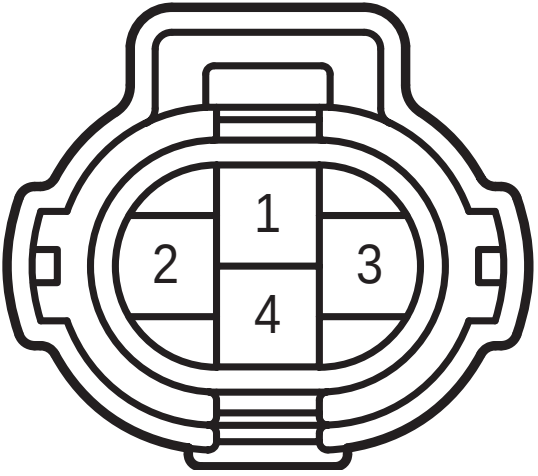
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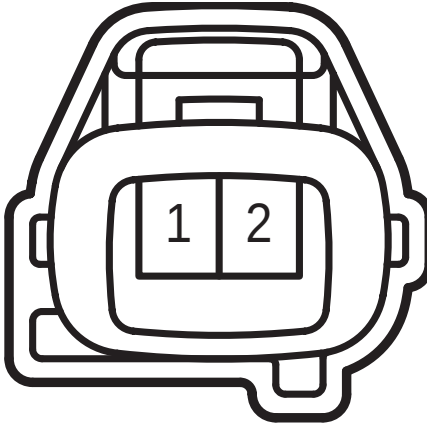
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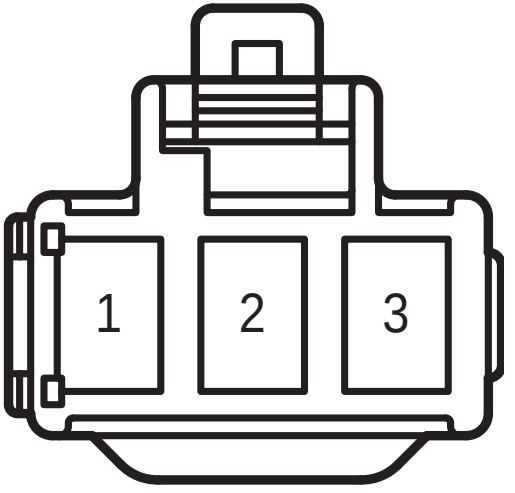
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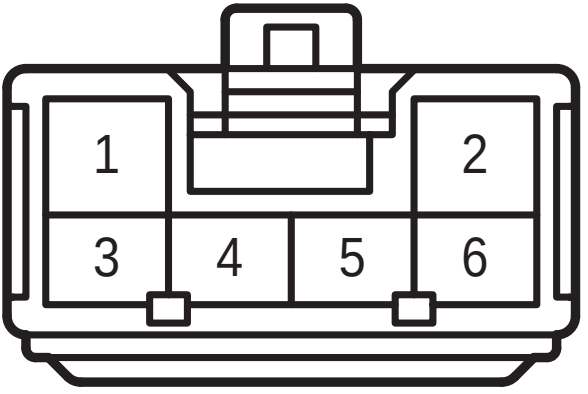
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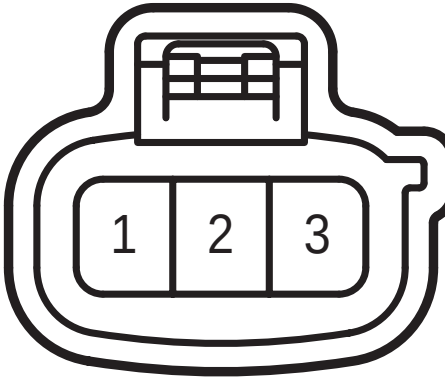
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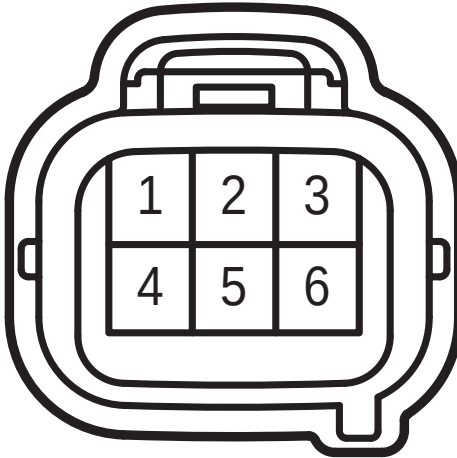
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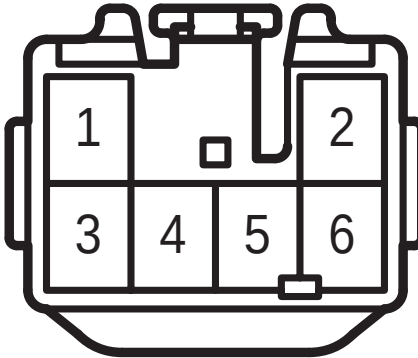
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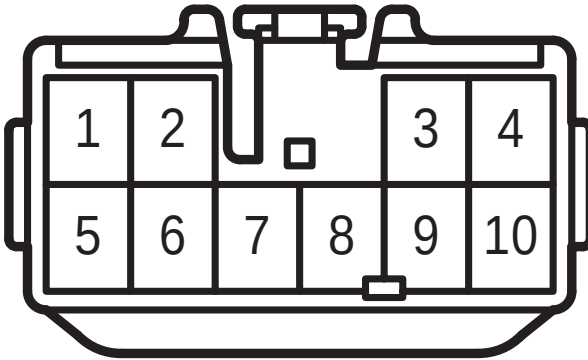
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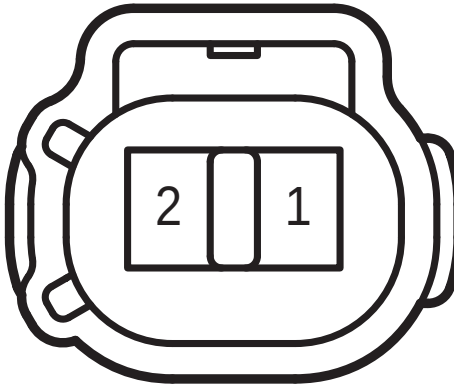
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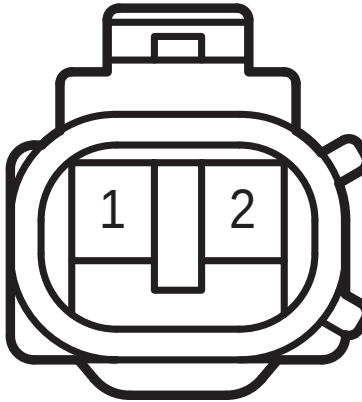
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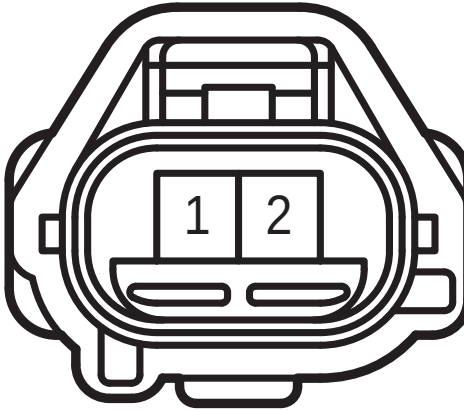
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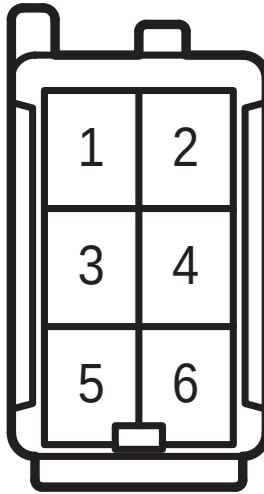
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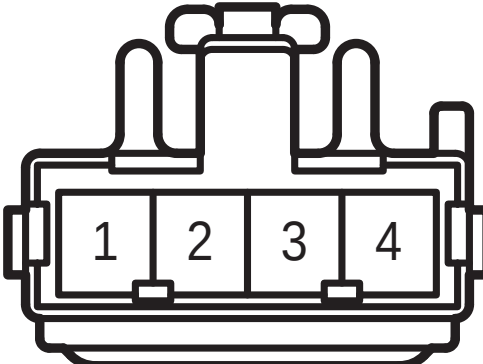
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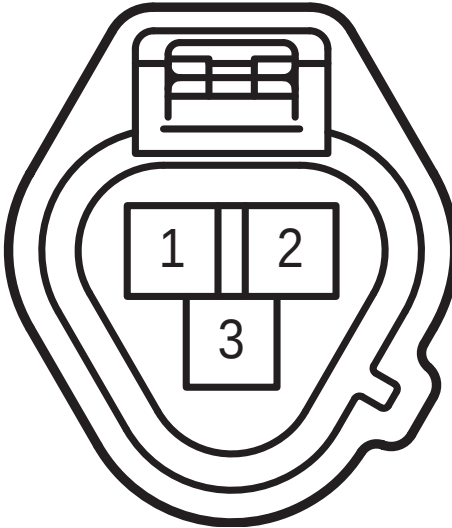
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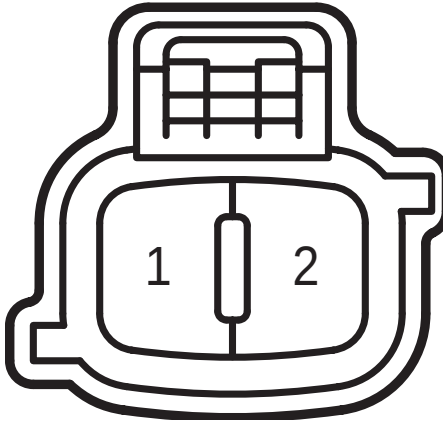
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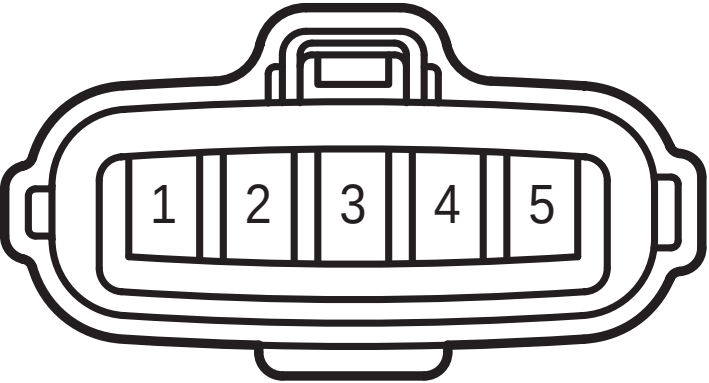
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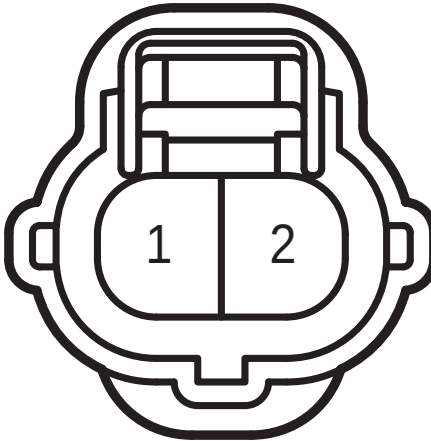
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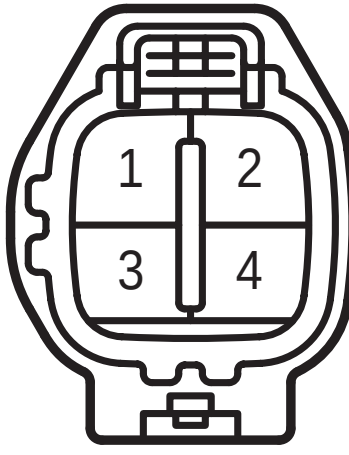
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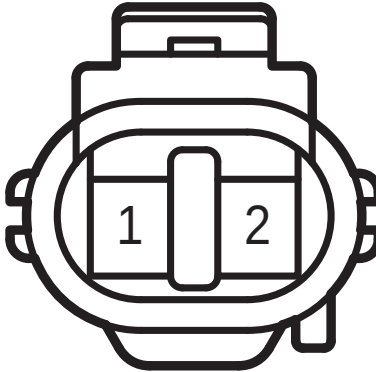
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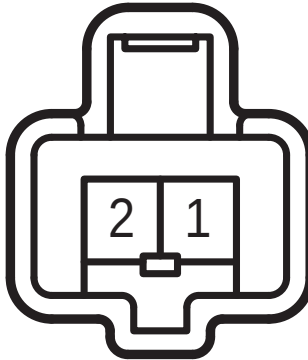
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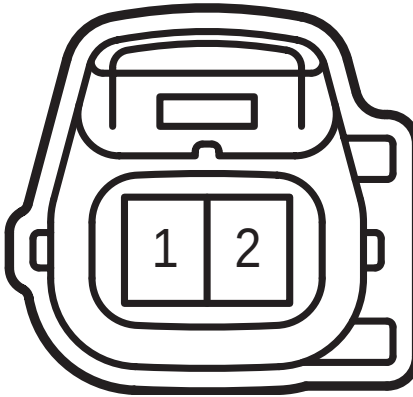
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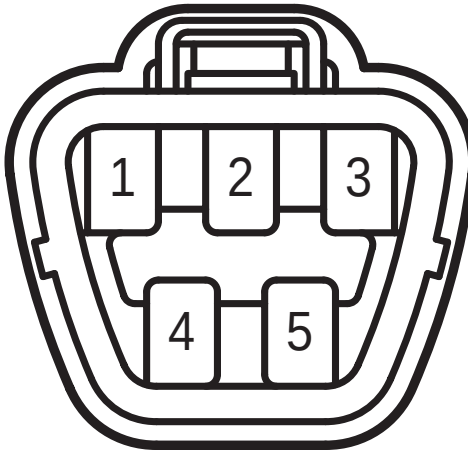
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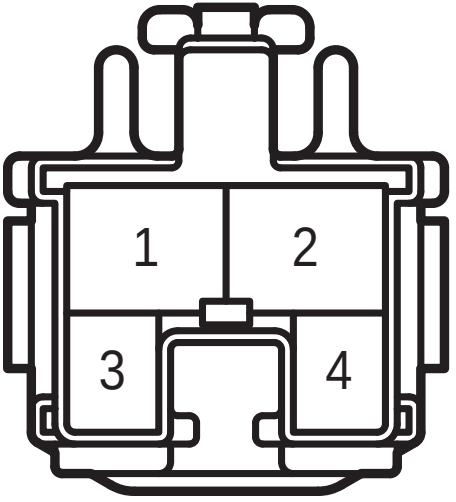
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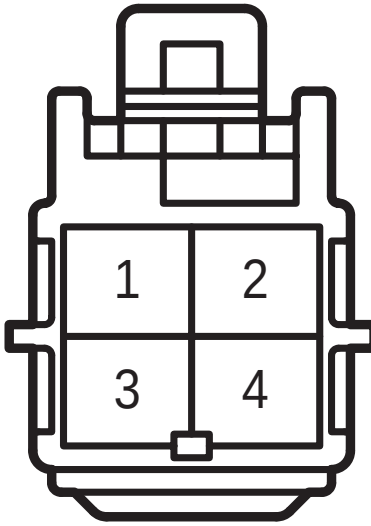
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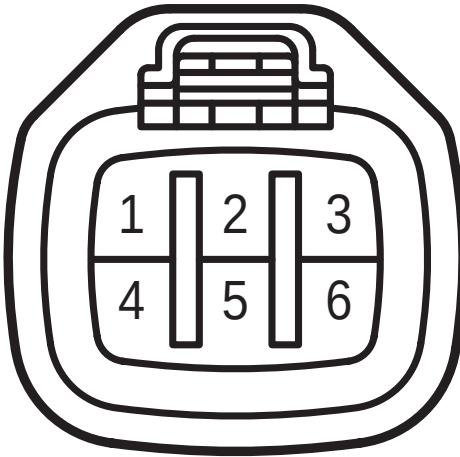
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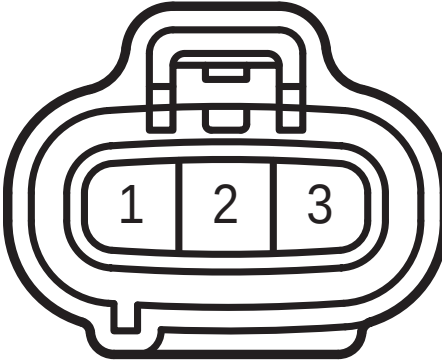
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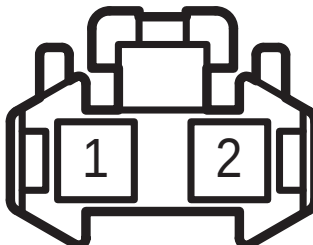
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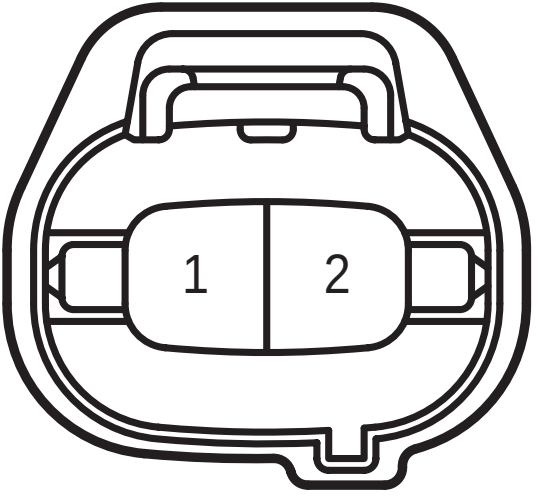
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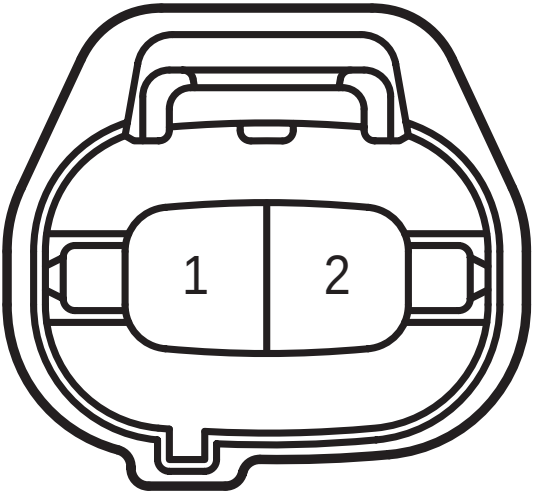
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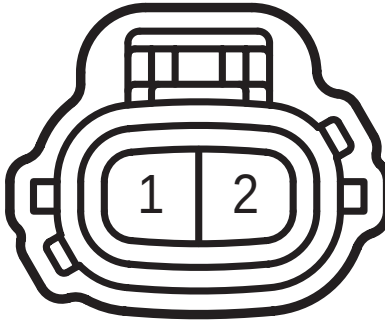
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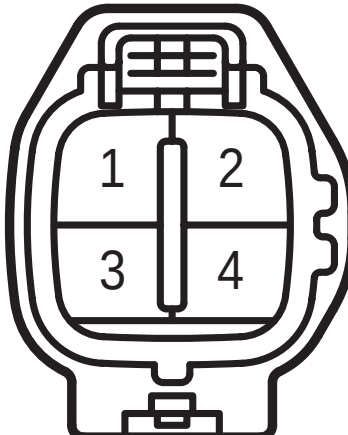
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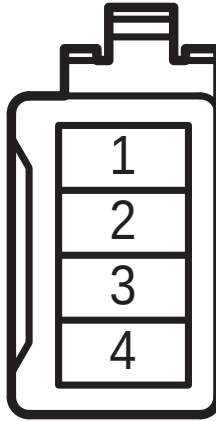
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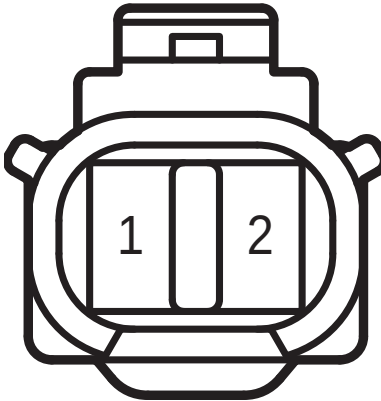
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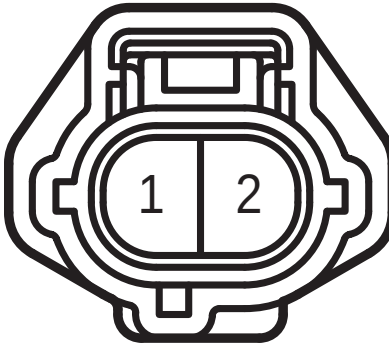
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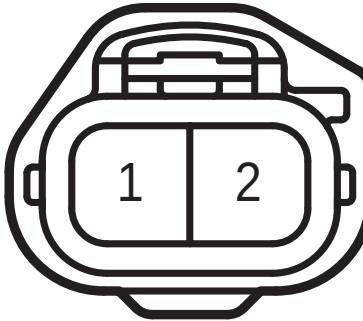
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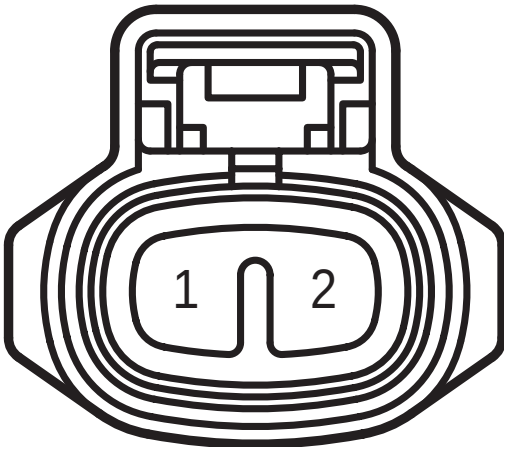
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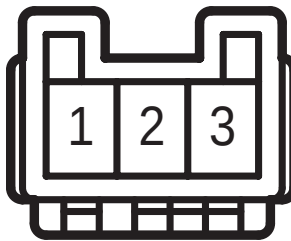
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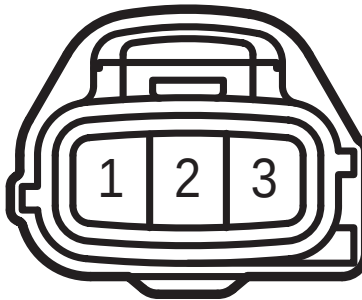
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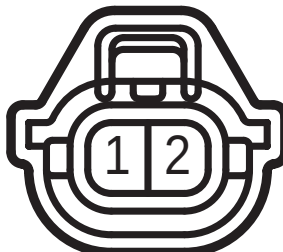
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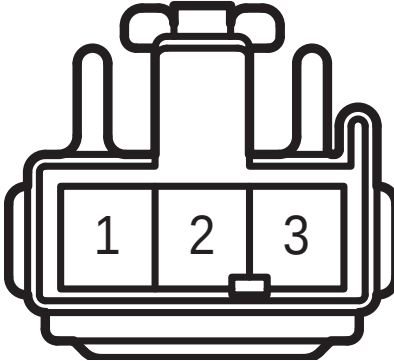
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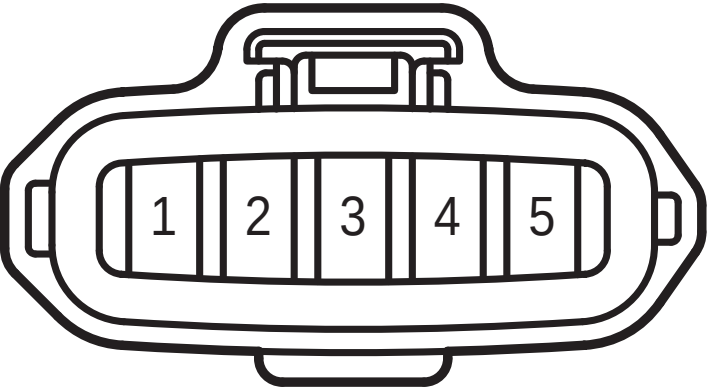
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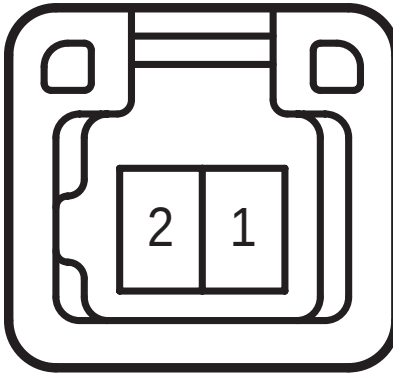
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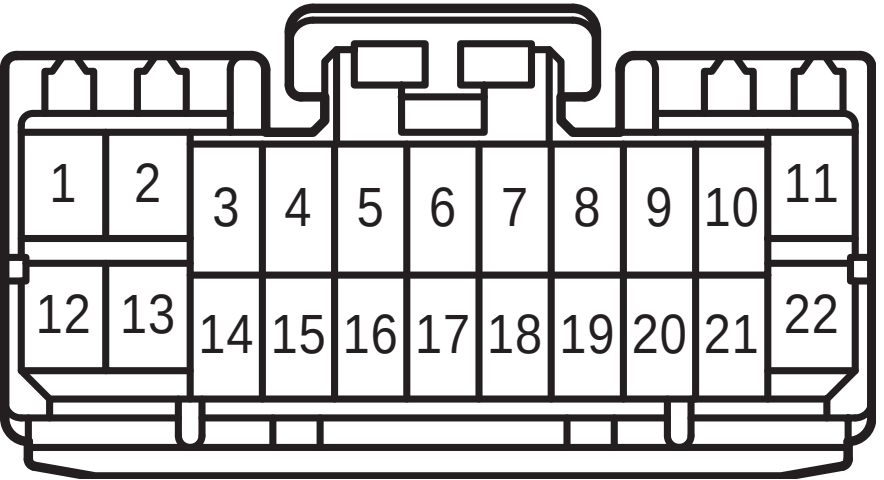
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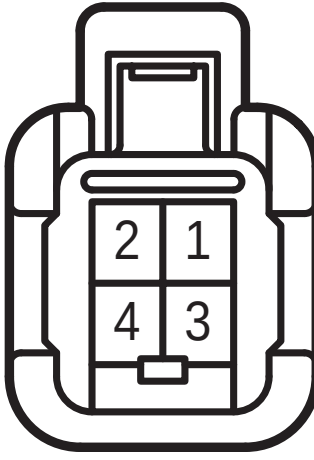
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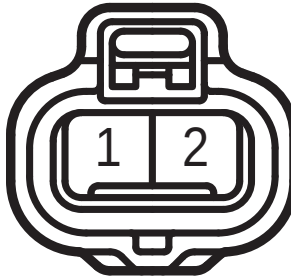
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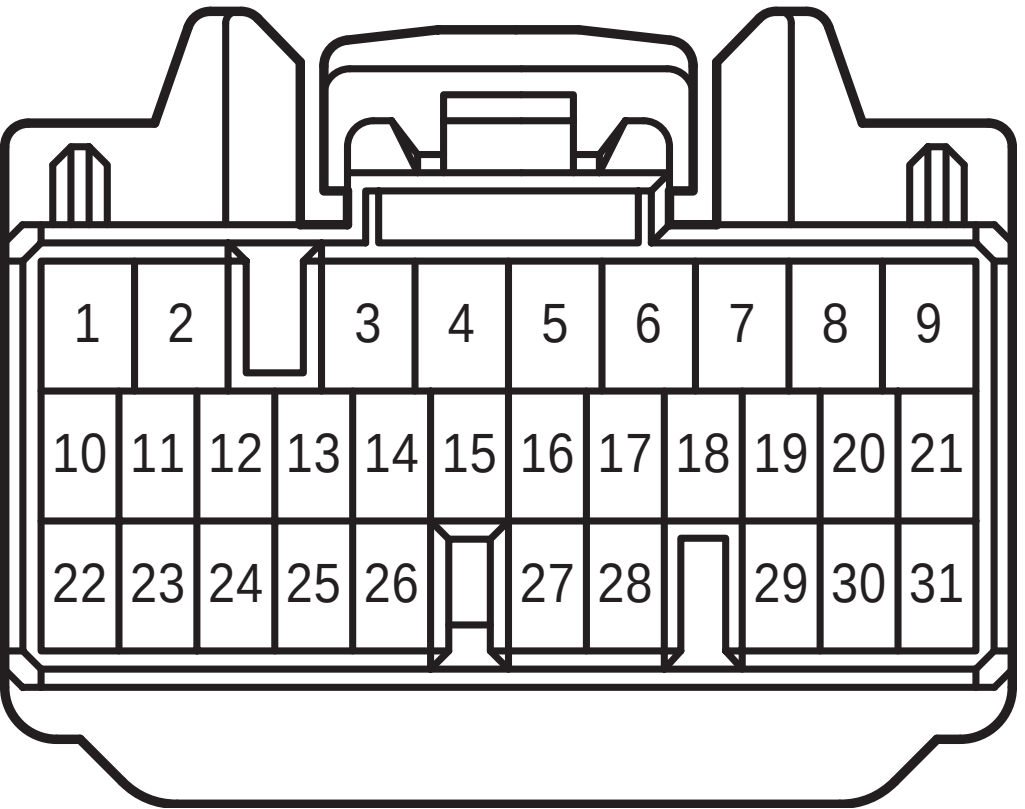
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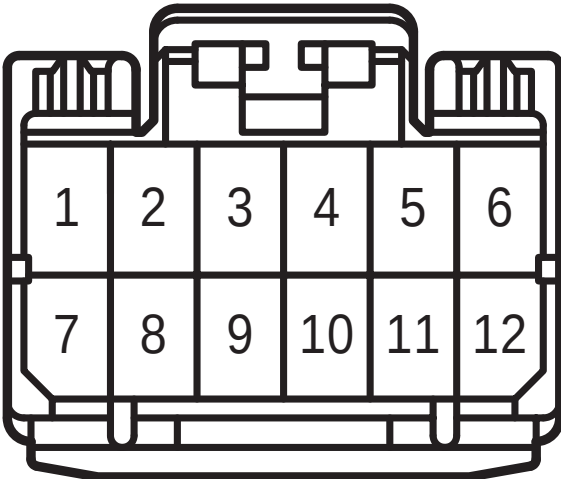
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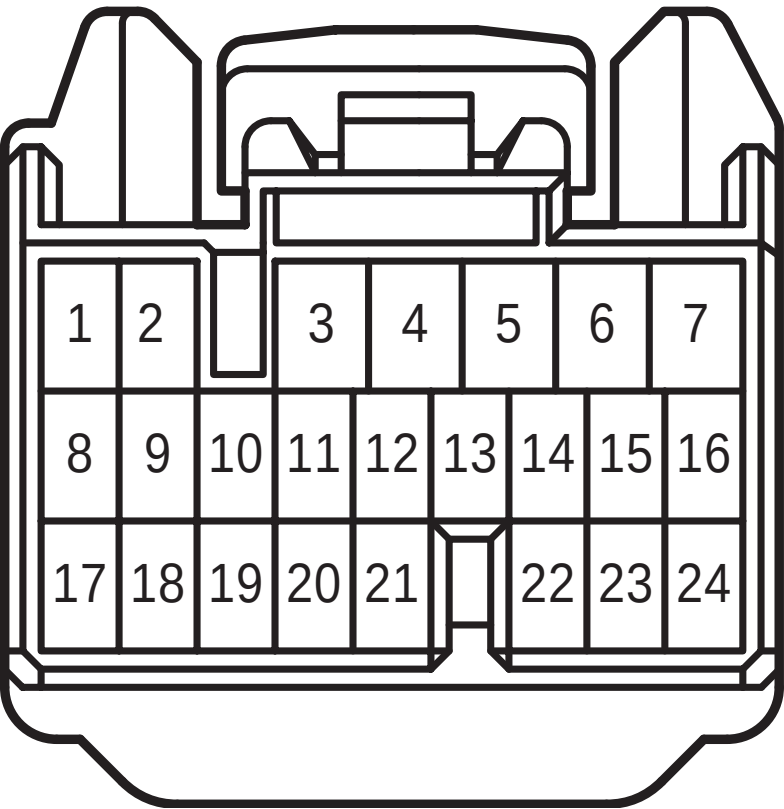
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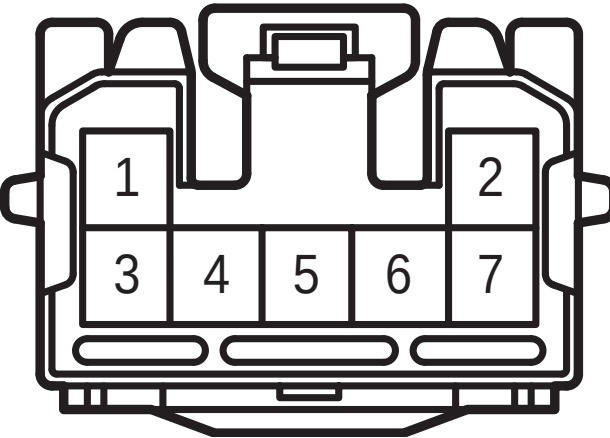
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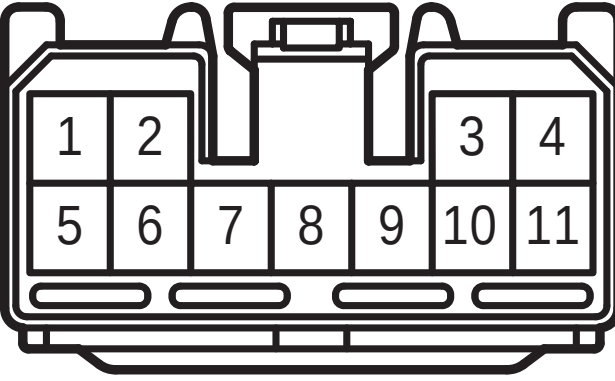
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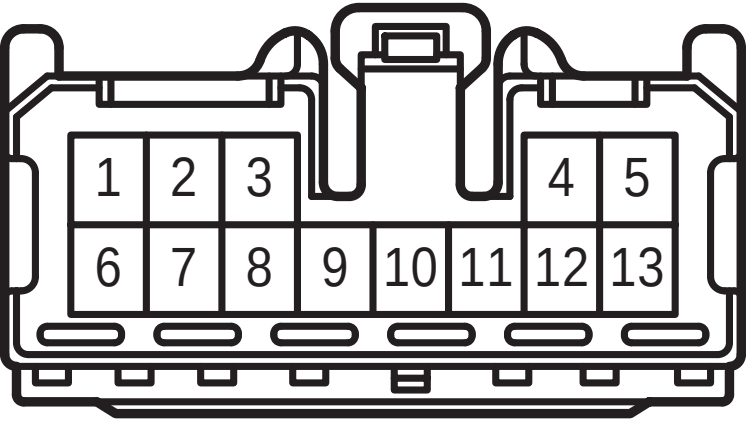
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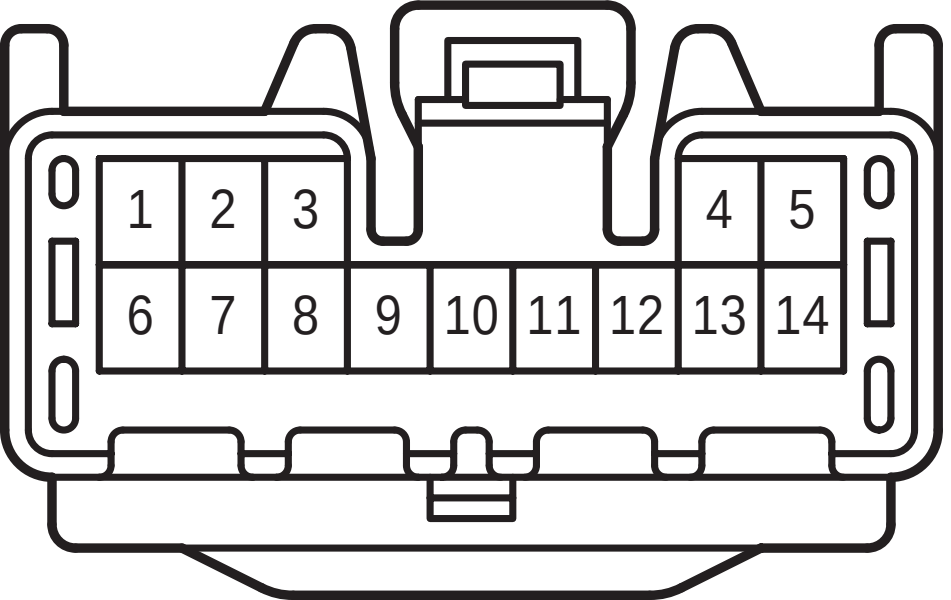
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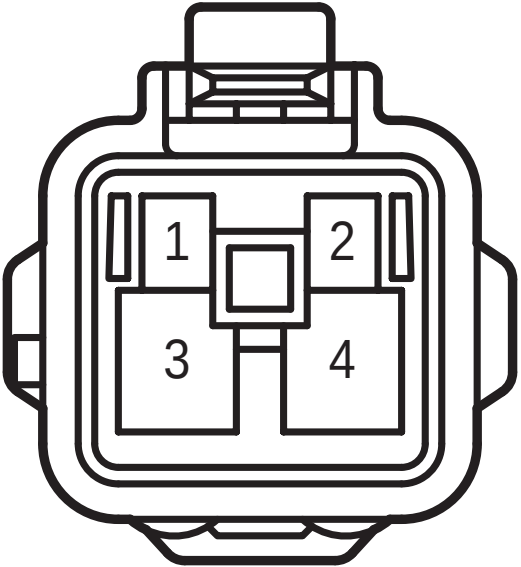
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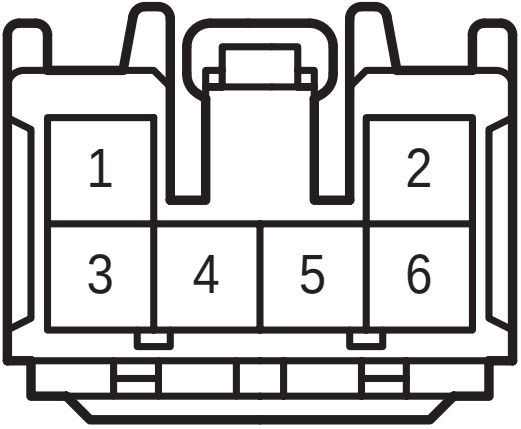
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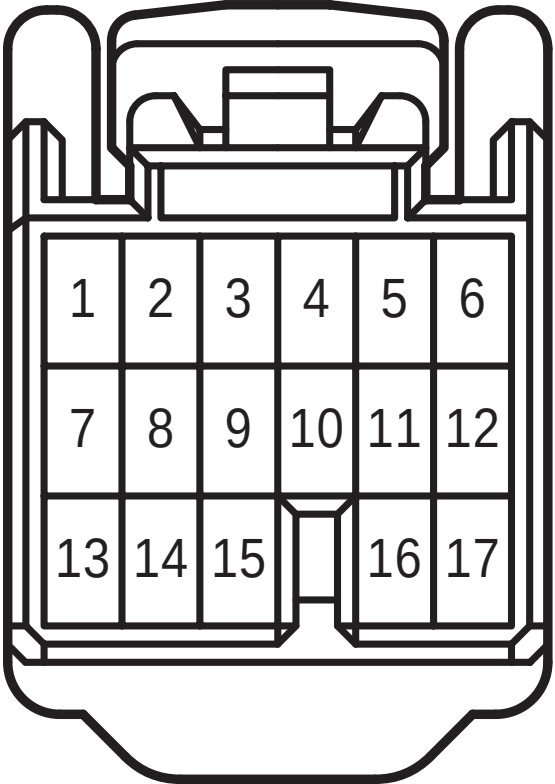
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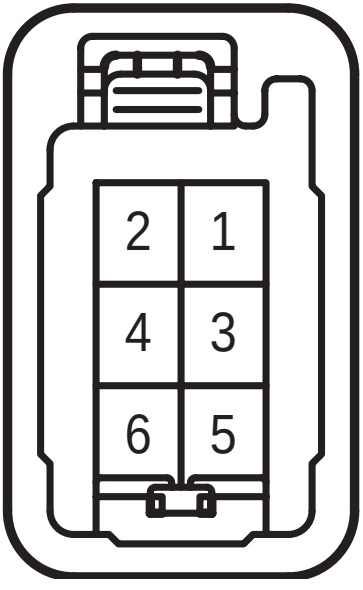
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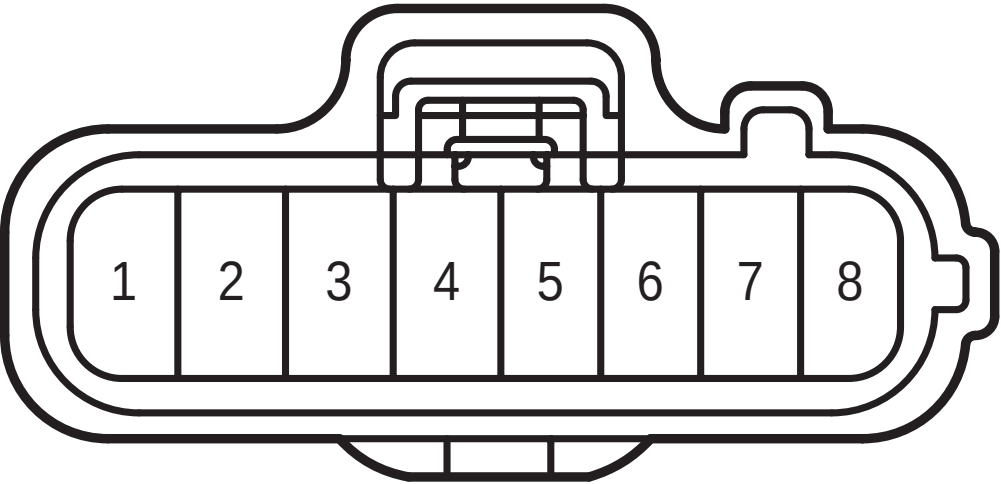
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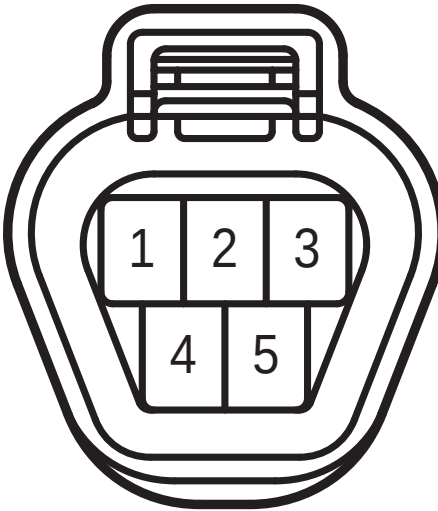
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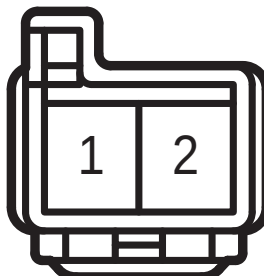
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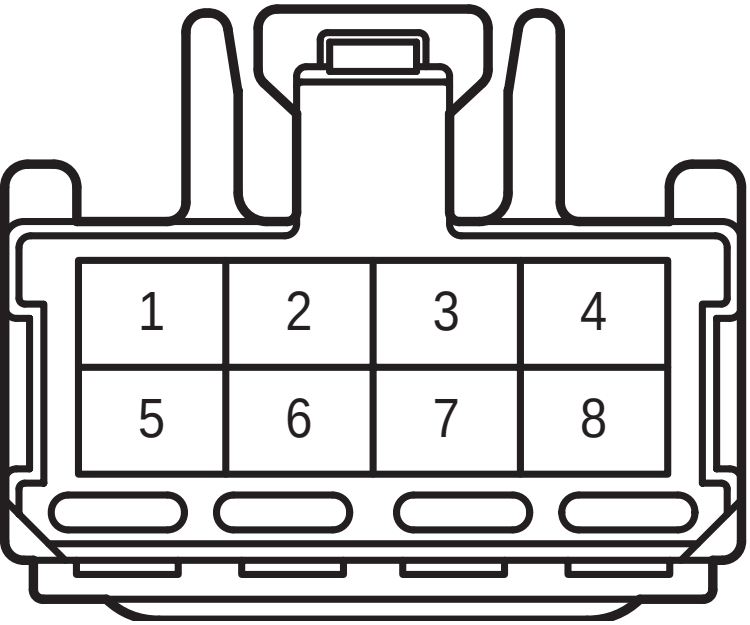
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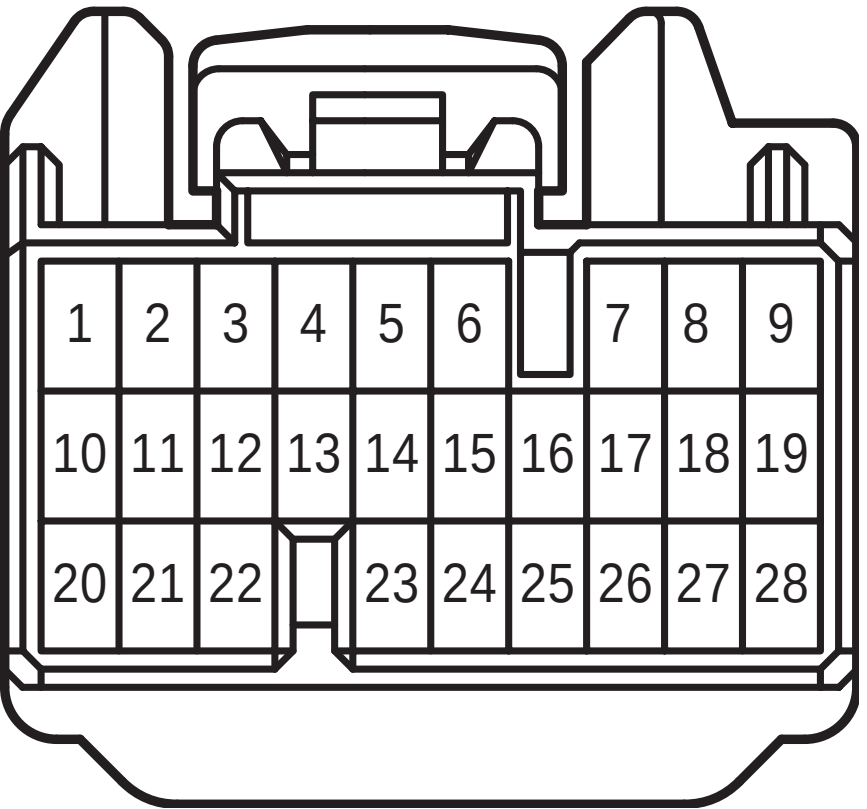
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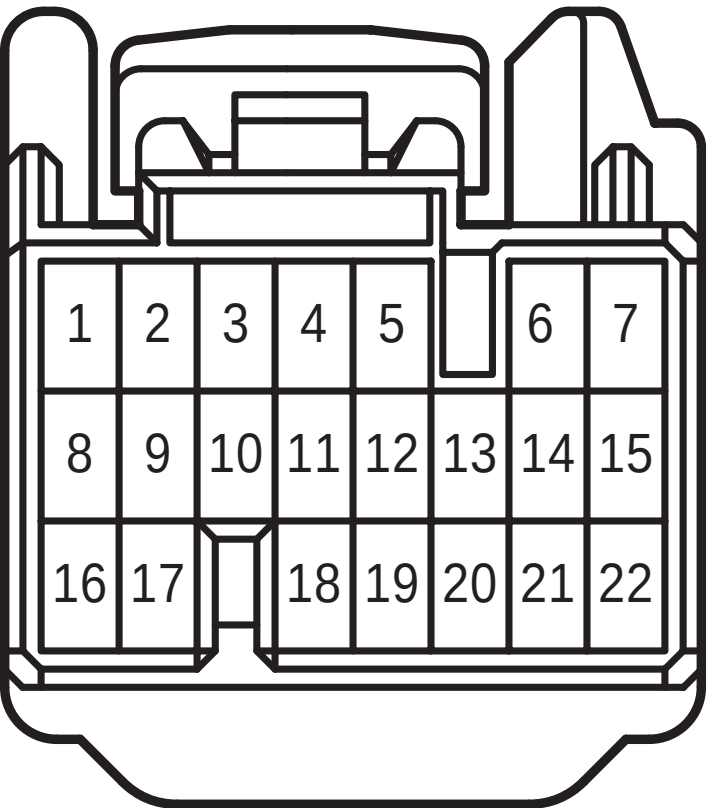
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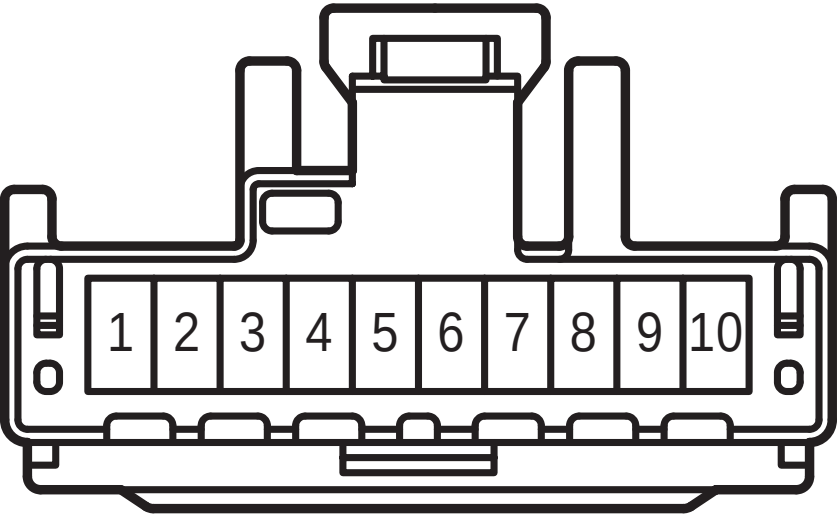
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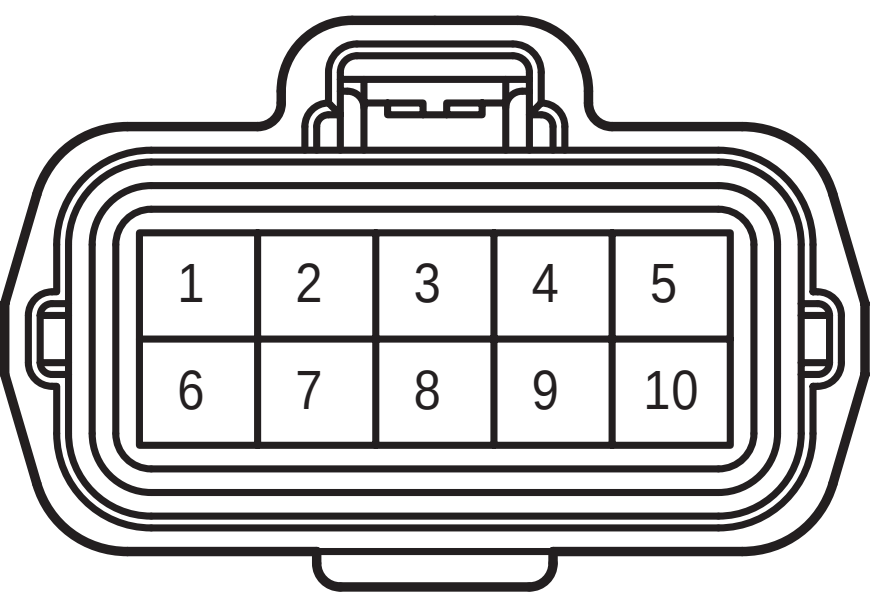
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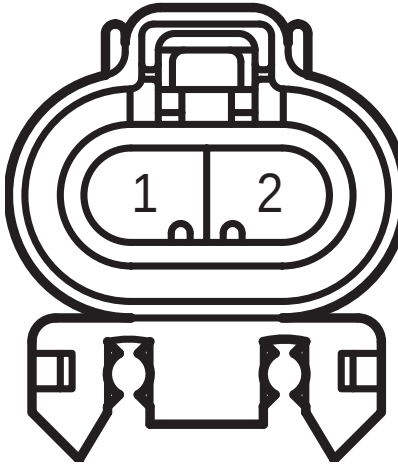
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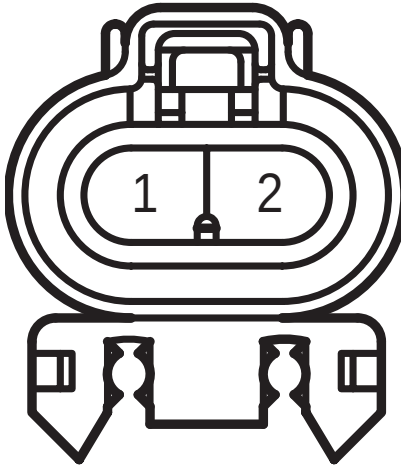
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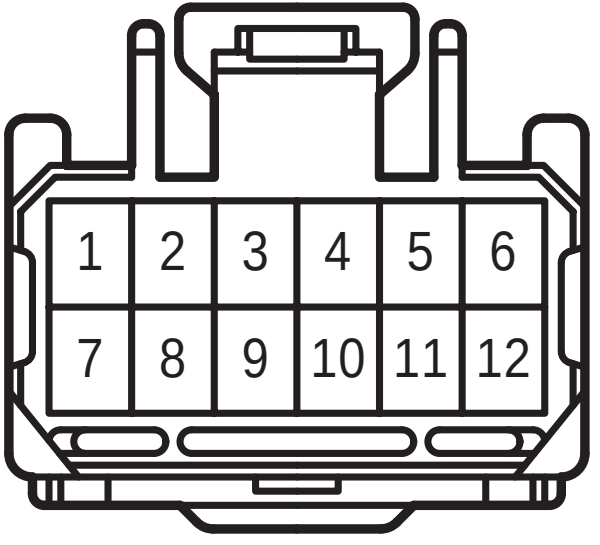
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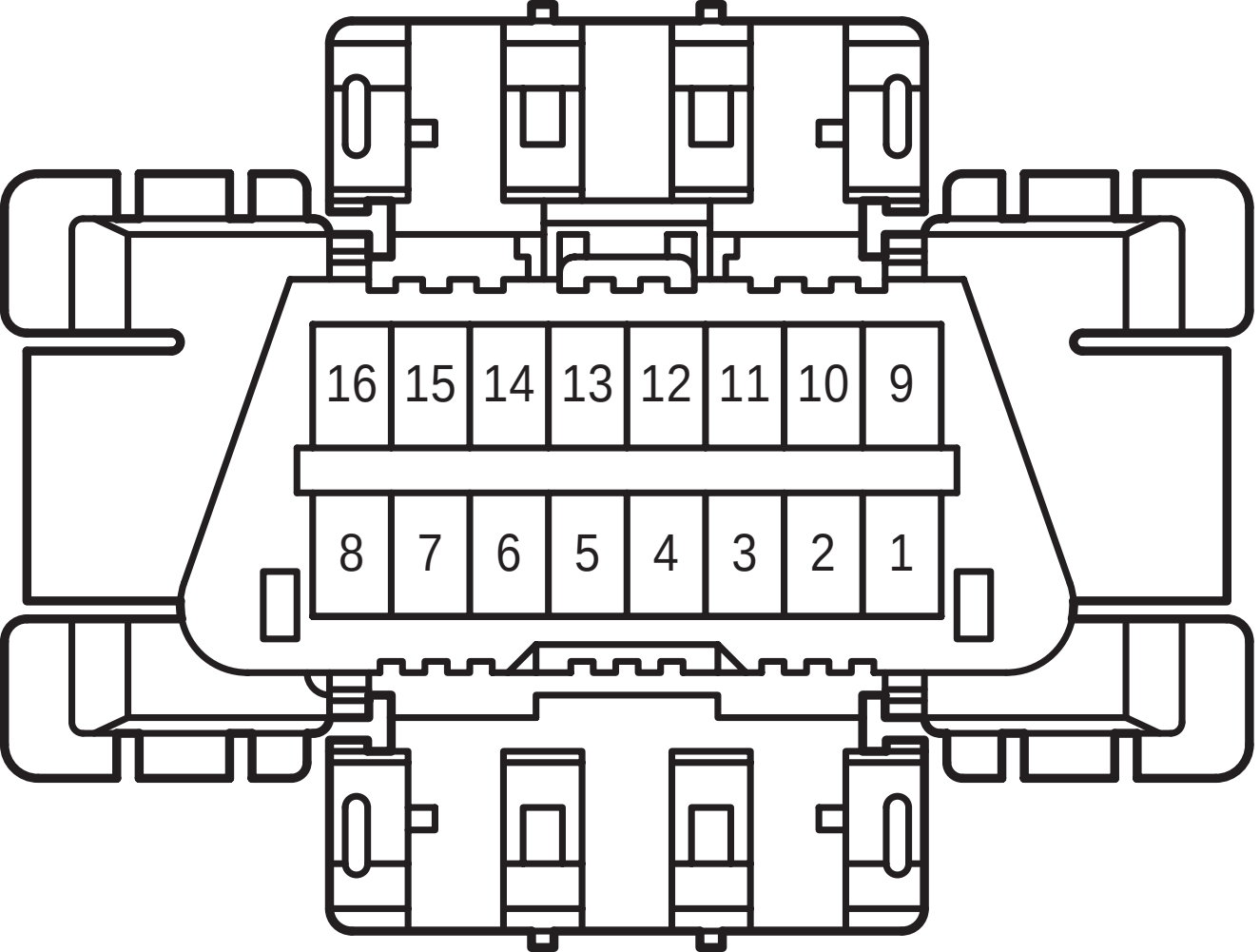
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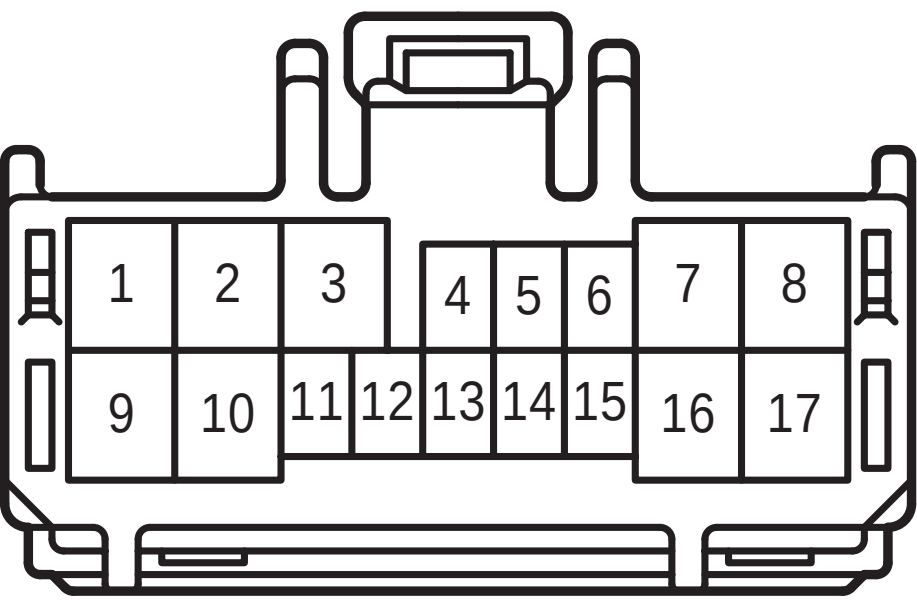
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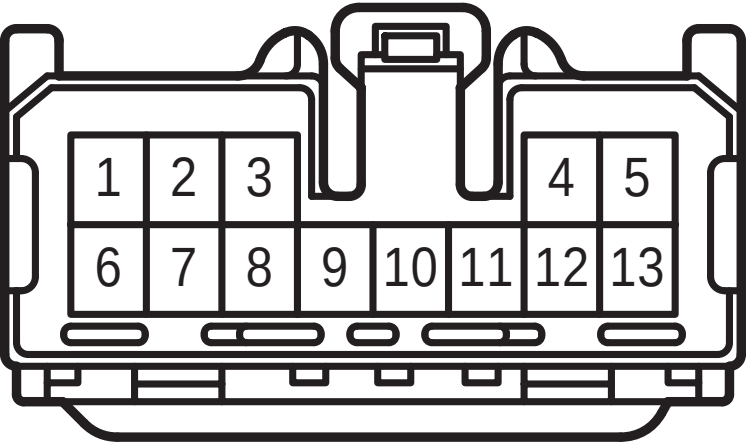
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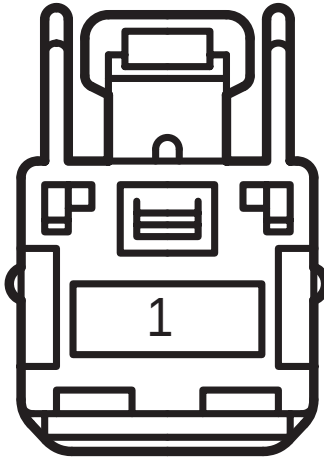
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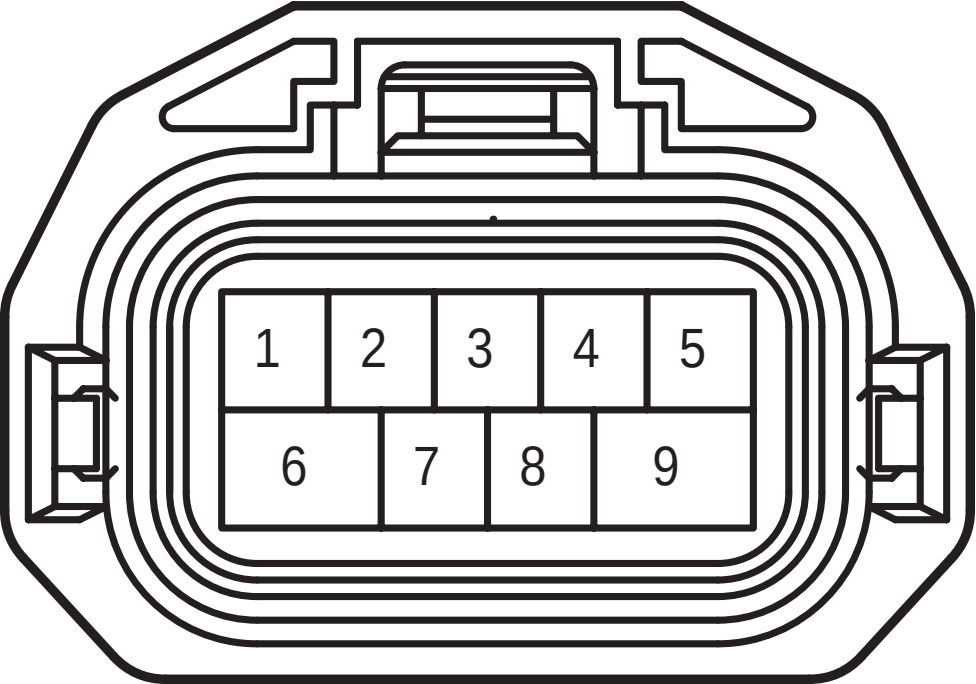
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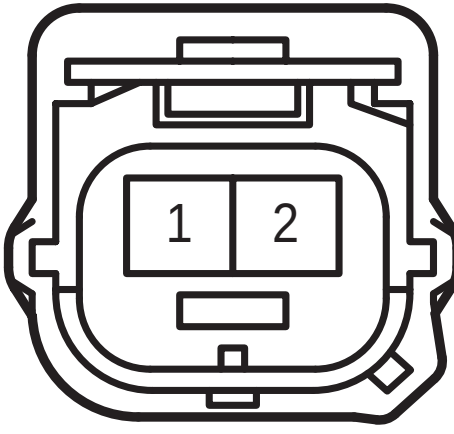
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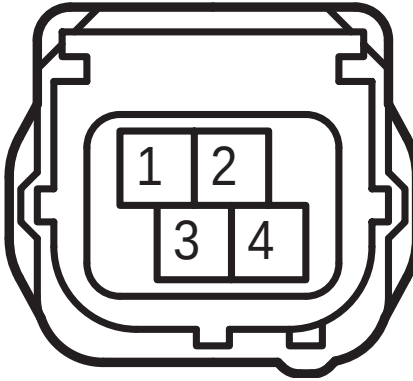
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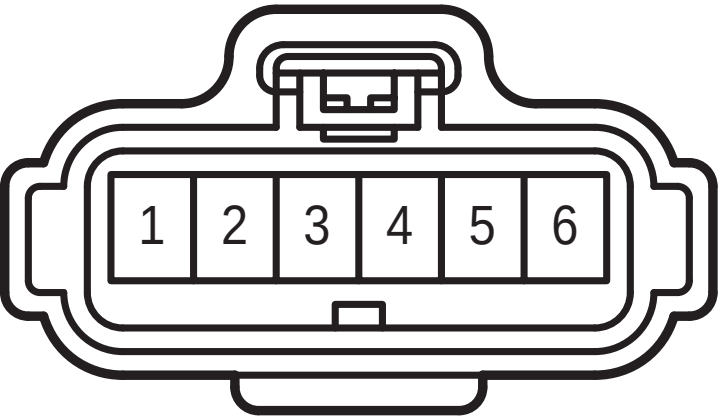
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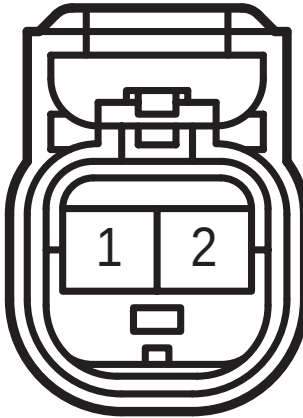
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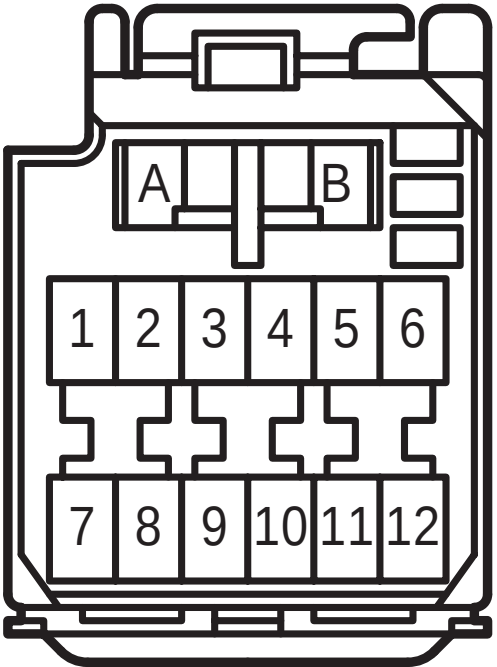
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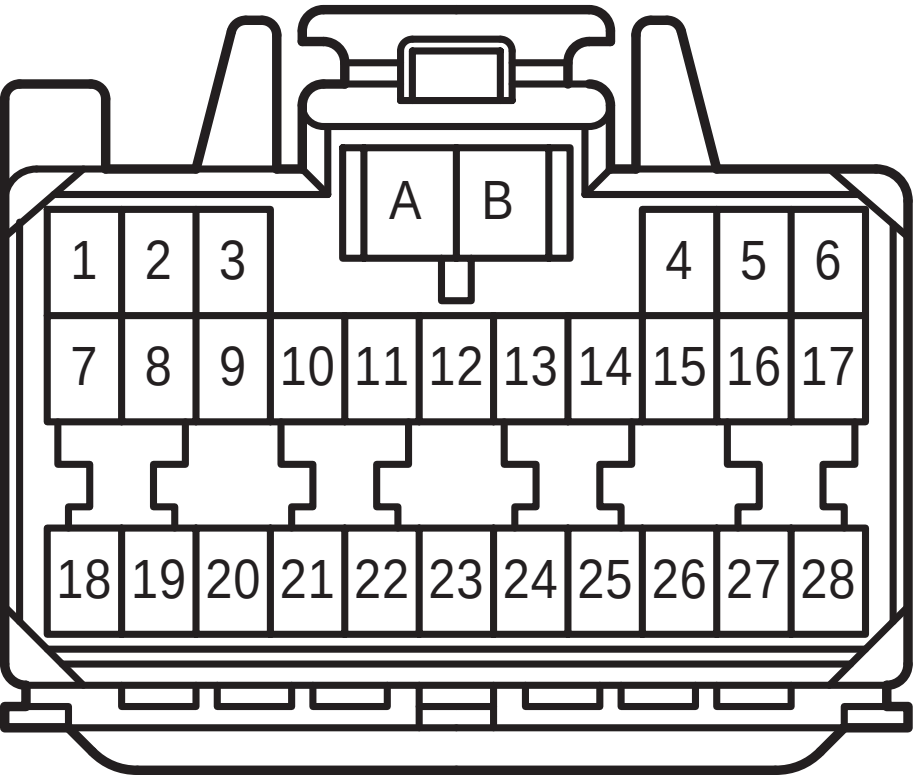
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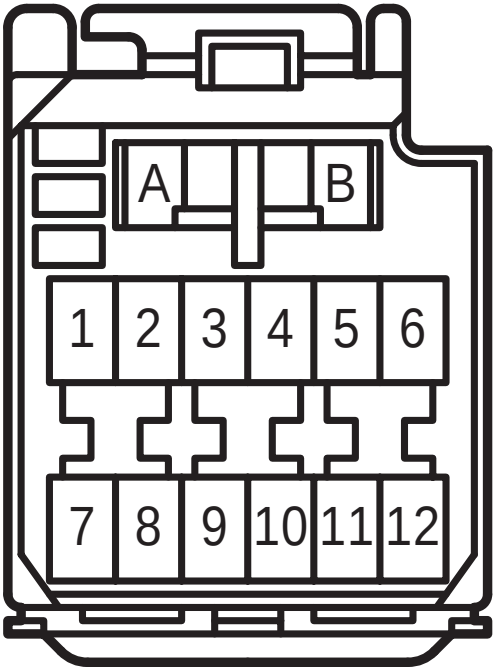
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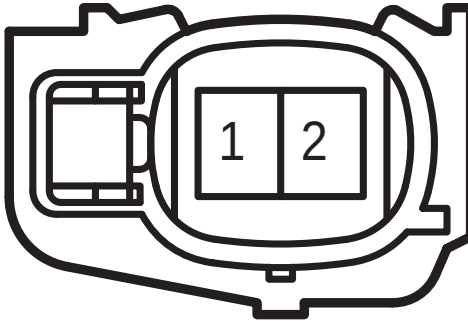
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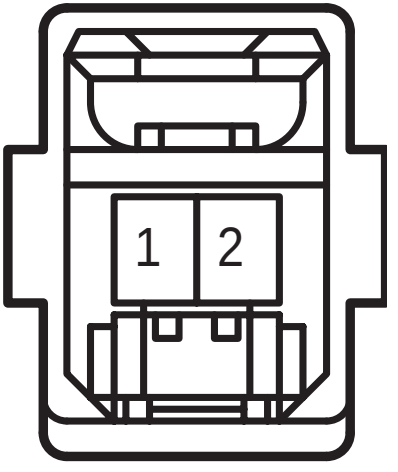
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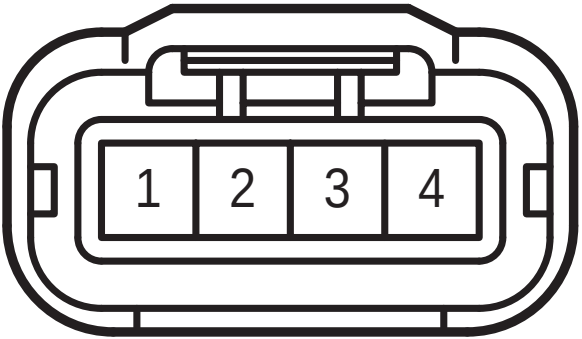
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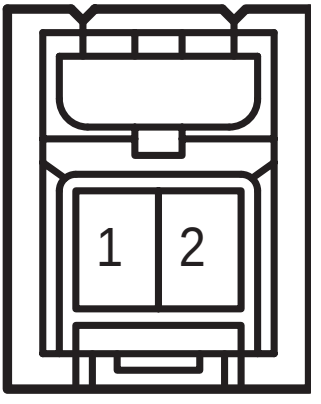
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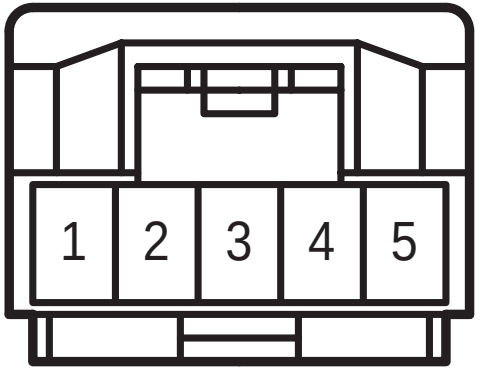
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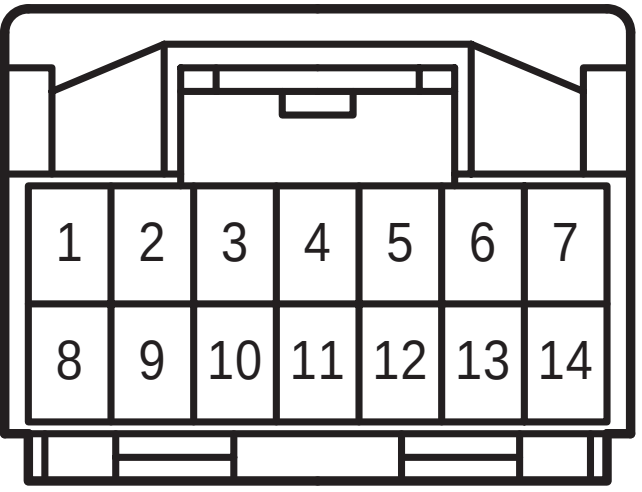
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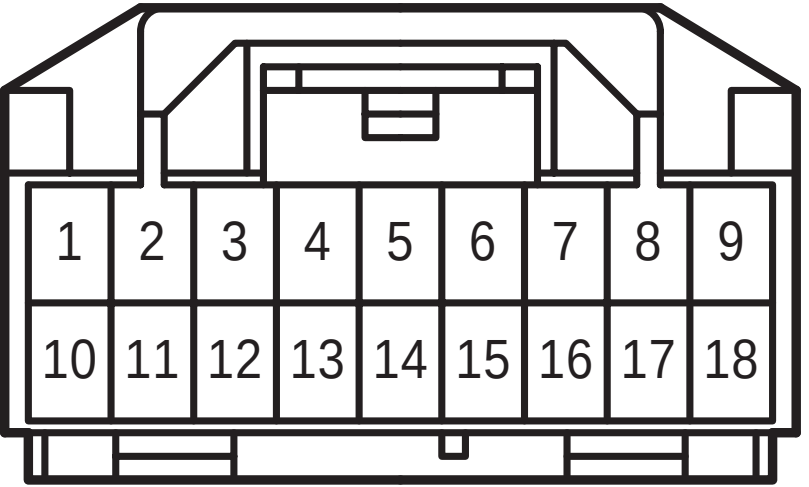
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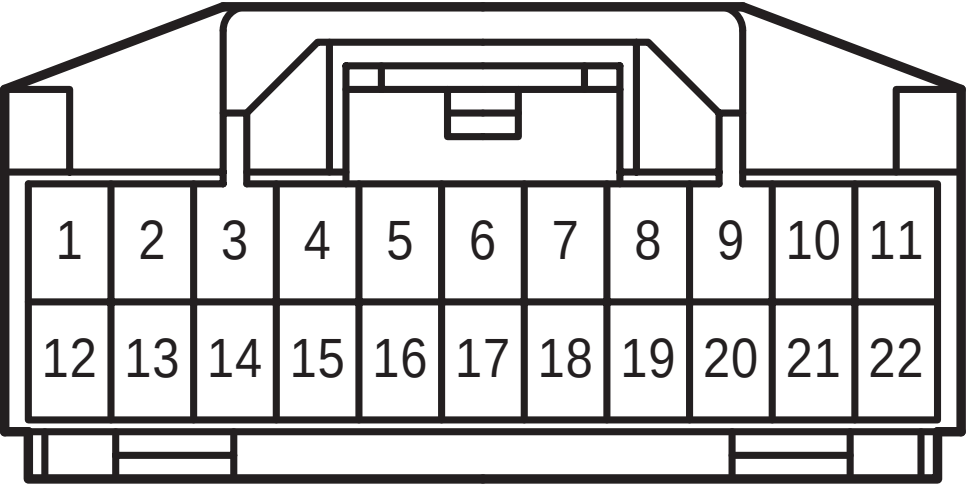
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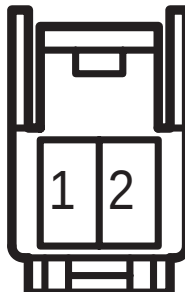
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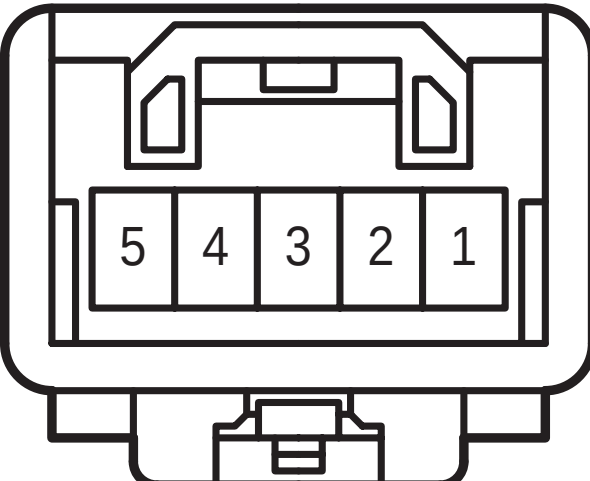
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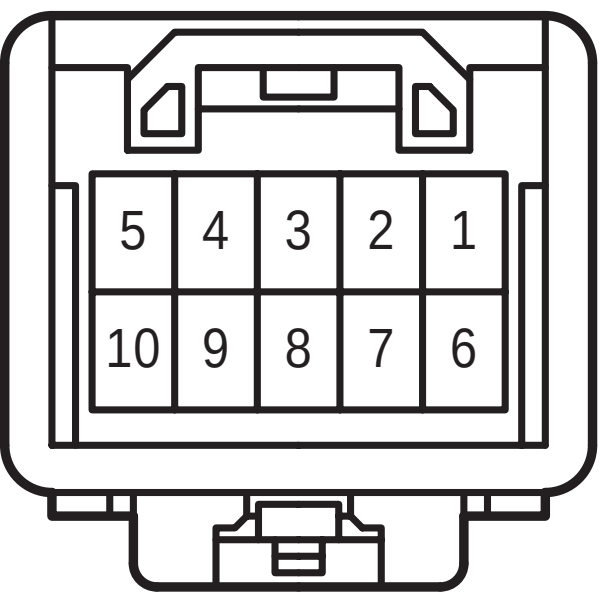
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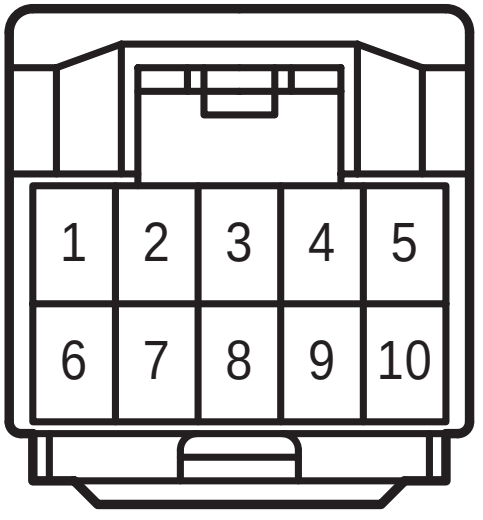
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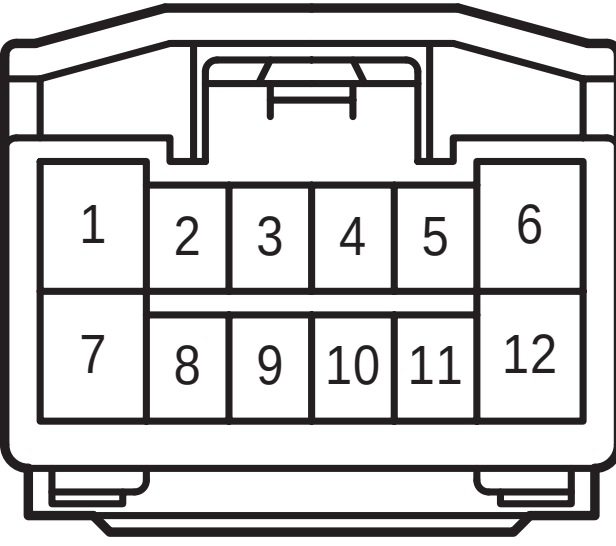
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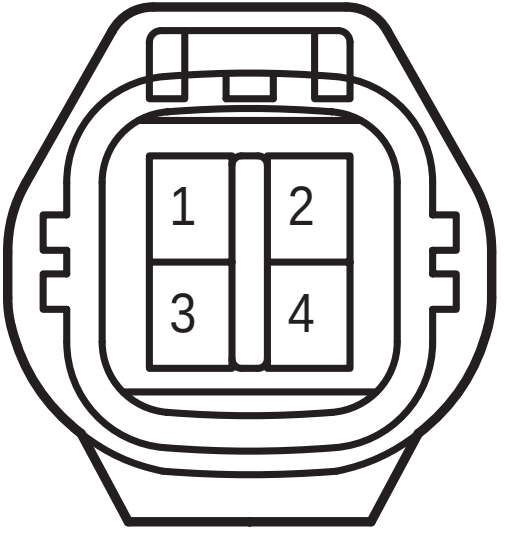
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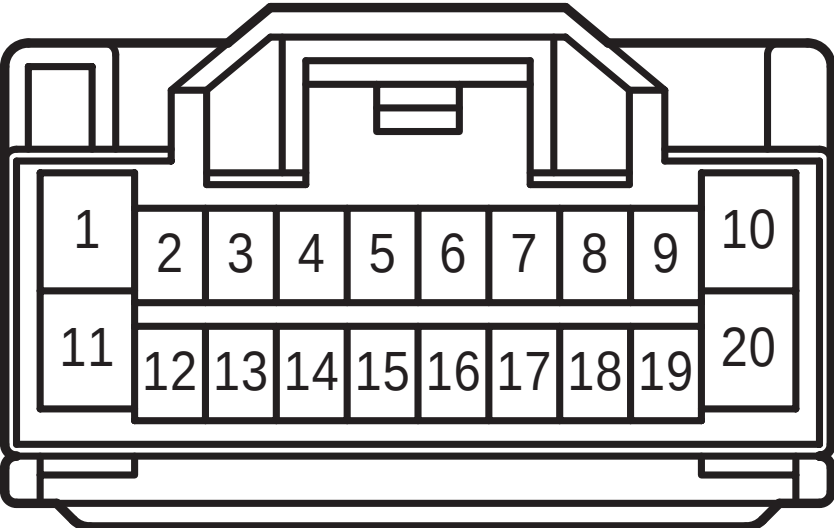
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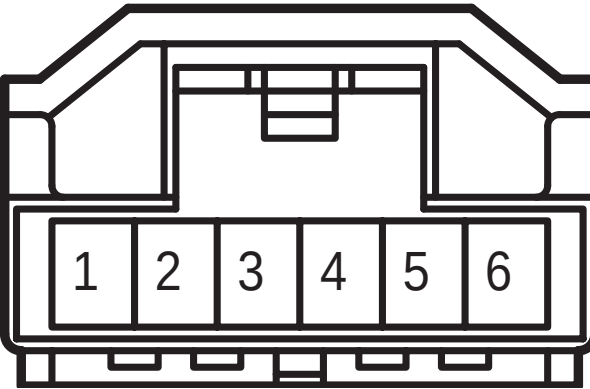
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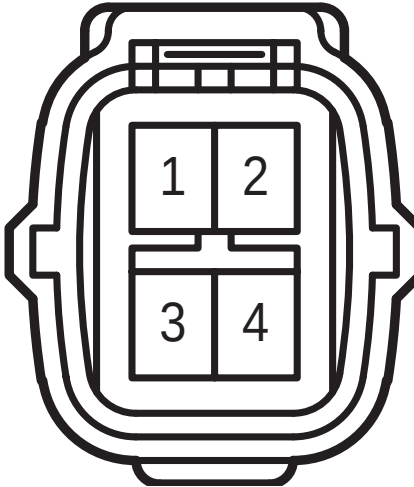
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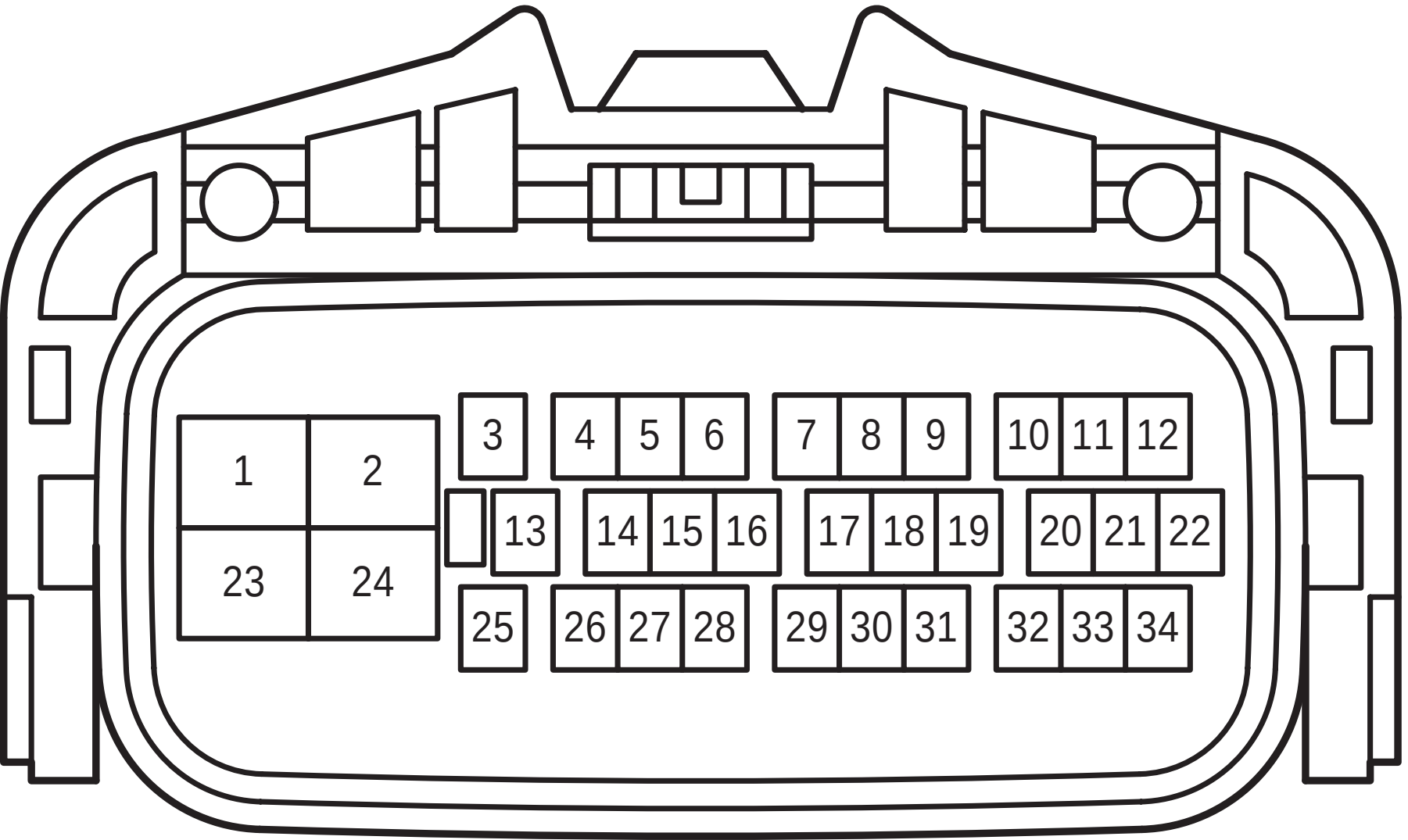
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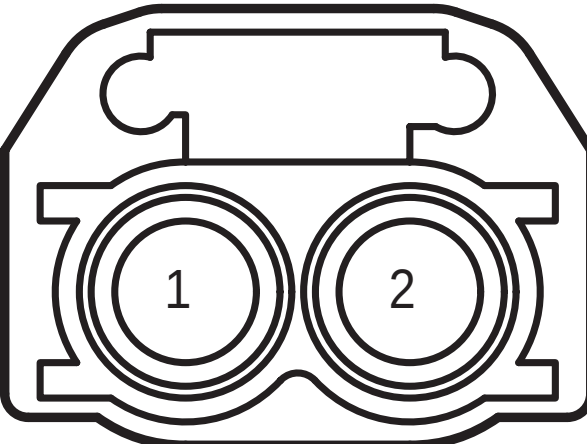
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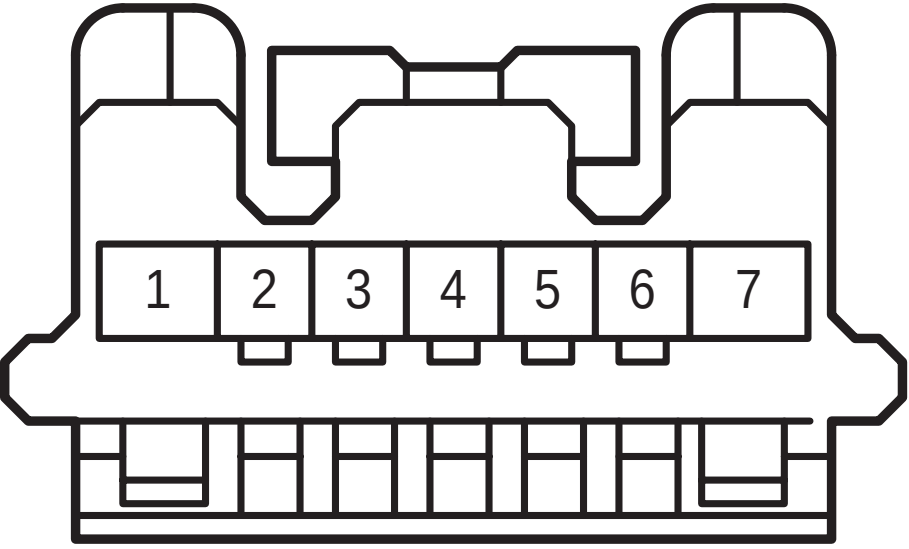
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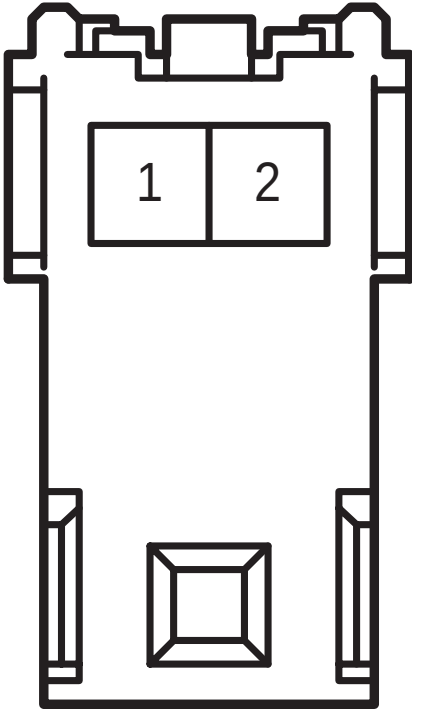
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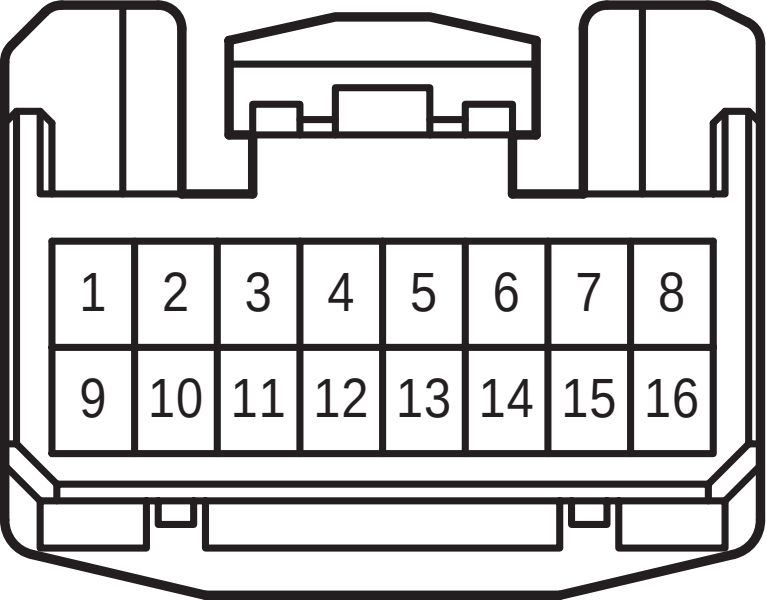
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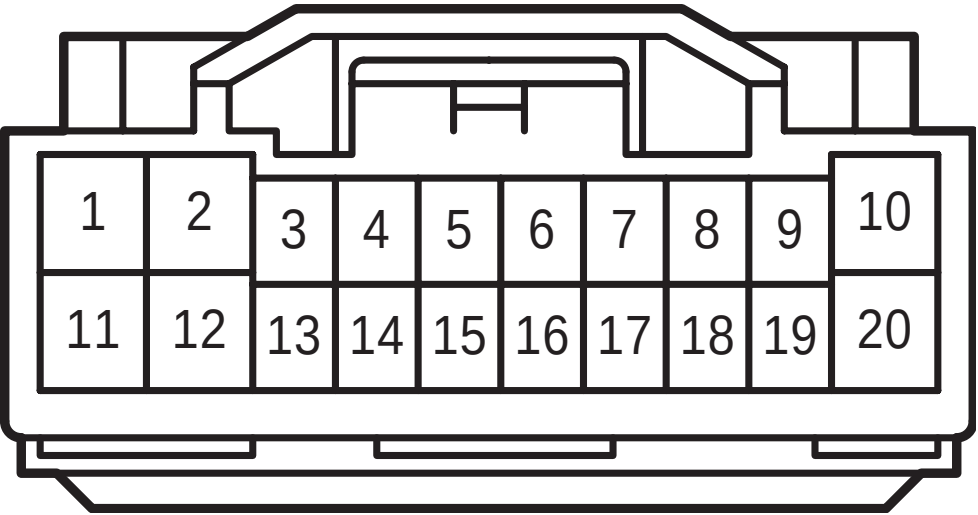
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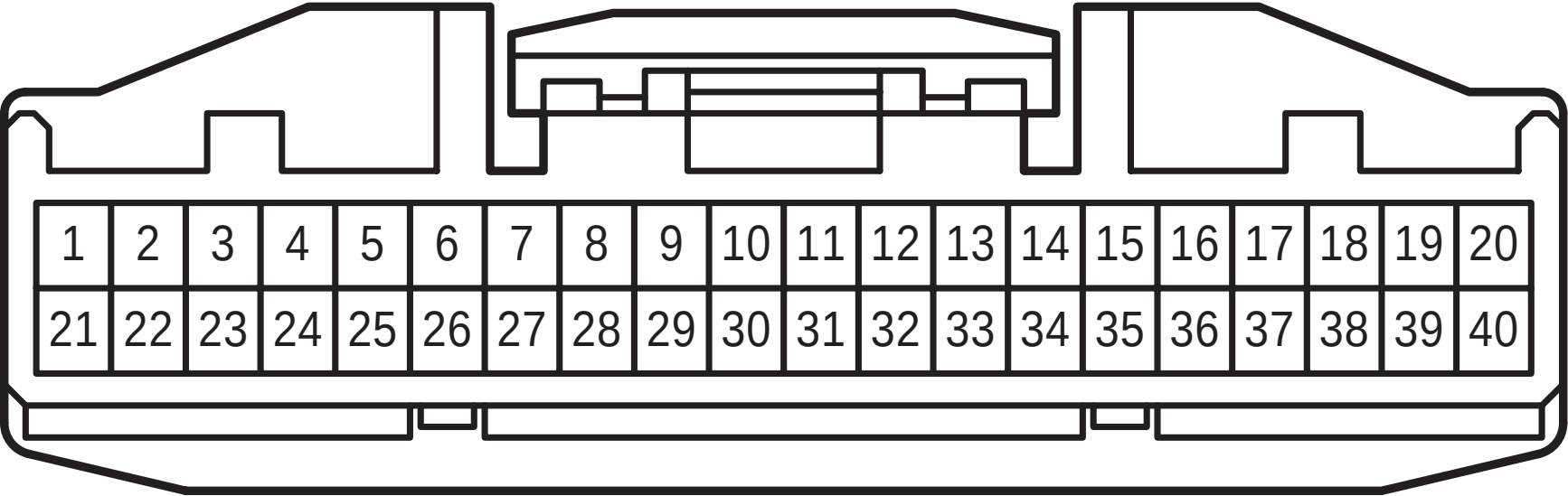
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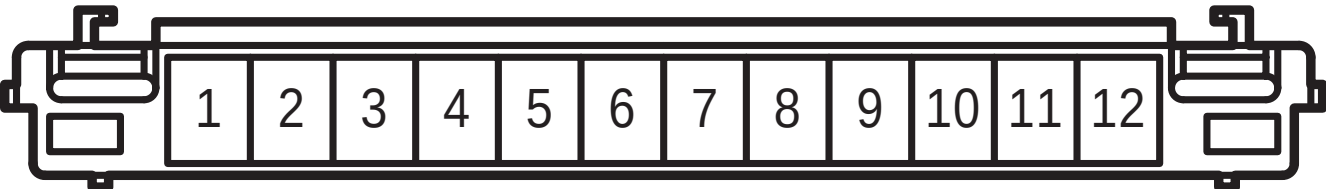
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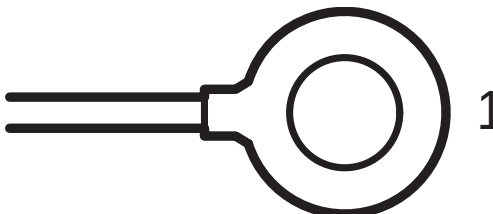
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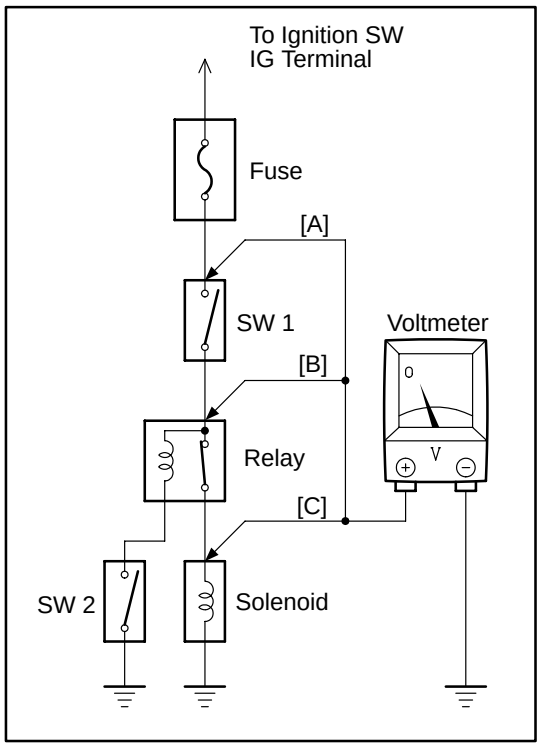
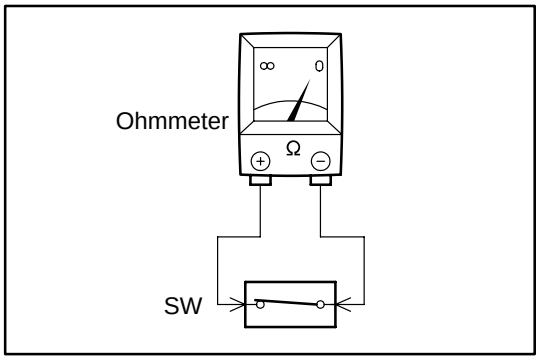


VOLTAGE CHECK

(a) Establish conditions in which voltage is present at the check point.

Example:
[A] – Ignition SW on
[B] – Ignition SW and SW 1 on
[C] – Ignition SW, SW 1 and Relay on (SW 2 off)

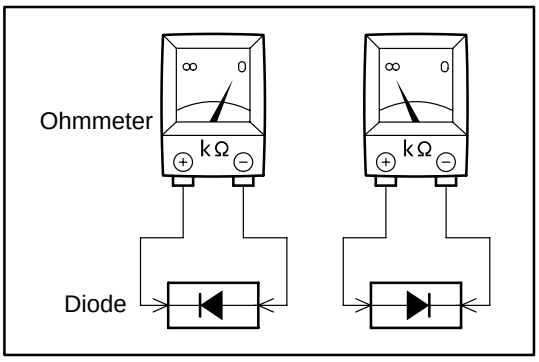
(b) Using a voltmeter, connect the negative lead to a good ground point or negative battery terminal, and the positive lead to the connector or component terminal.
This check can be done with a test light instead of a voltmeter.



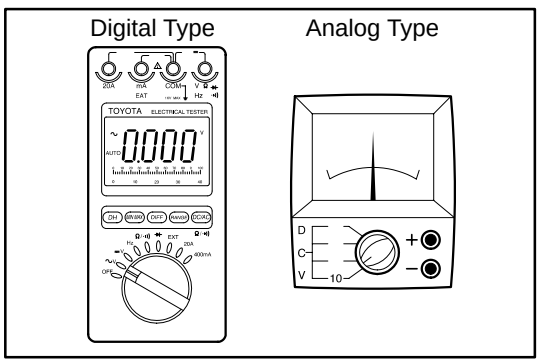
CONTINUITY AND RESISTANCE CHECK

(a) Disconnect the battery terminal or wire so there is no voltage between the check points.

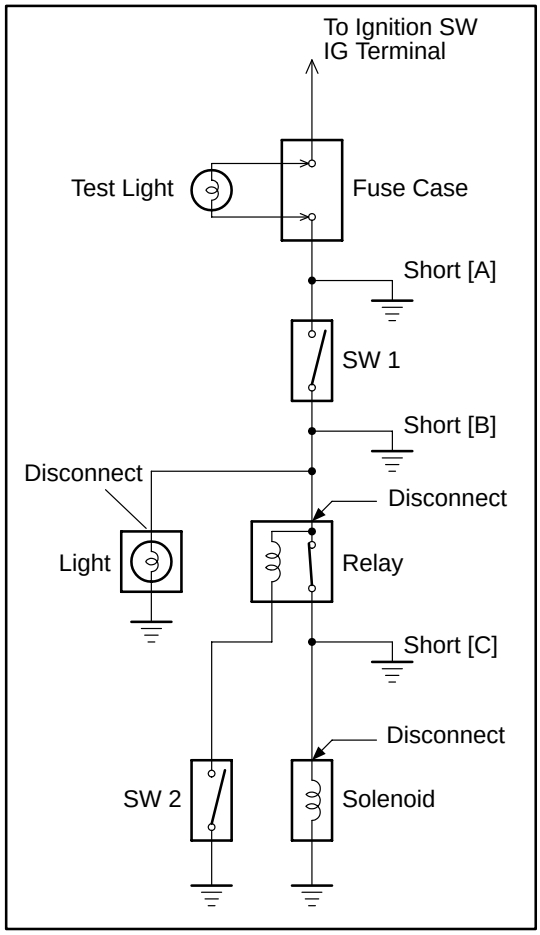
(b) Contact the two leads of an ohmmeter to each of the check points.



If the circuit has diodes, reverse the two leads and check again.
When contacting the negative lead to the diode positive side and the positive lead to the negative side, there should be continuity.
When contacting the two leads in reverse, there should be no continuity.



(c) Use a volt/ohmmeter with high impedance (10 kΩ/V minimum) for troubleshooting of the electrical circuit.



FINDING A SHORT CIRCUIT

(a) Remove the blown fuse and disconnect all loads of the fuse.

(b) Connect a test light in place of the fuse.

(c) Establish conditions in which the test light comes on.

Example:
[A] – Ignition SW on
[B] – Ignition SW and SW 1 on
[C] – Ignition SW, SW 1 and Relay on (Connect the Relay) and SW 2 off (or Disconnect SW 2)

(d) Disconnect and reconnect the connectors while watching the test light.
The short lies between the connector where the test light stays lit and the connector where the light goes out.

(e) Find the exact location of the short by lightly shaking the problem wire along the body.

CAUTION:

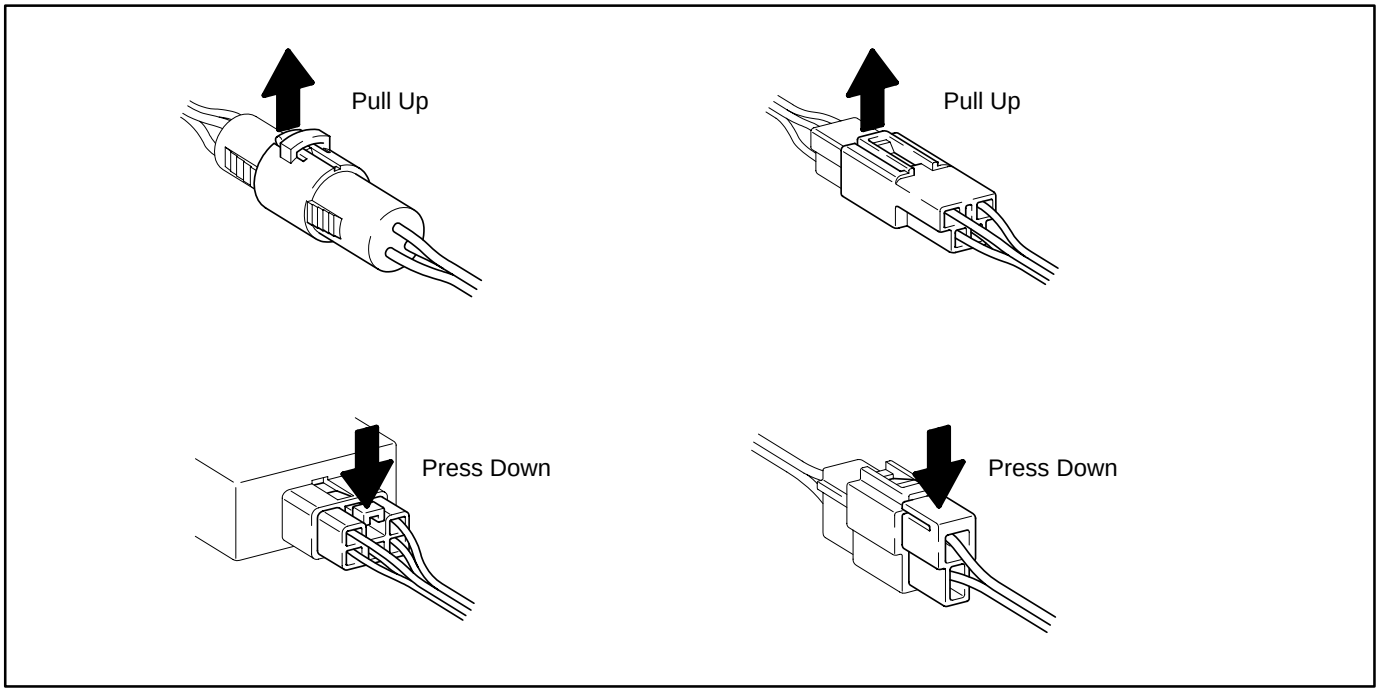
(a) Do not open the cover or the case of the ECU unless absolutely necessary. (If the IC terminals are touched, the IC may be destroyed by static electricity.)

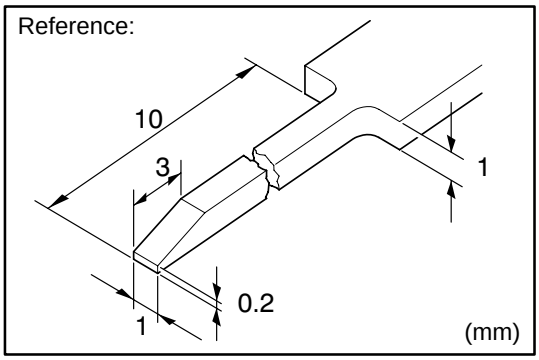
(b) When replacing the internal mechanism (ECU part) of the digital meter, be careful that no part of your body or clothing comes in contact with the terminals of leads from the IC, etc. of the replacement part (spare part).

DISCONNECTION OF MALE AND FEMALE CONNECTORS

To pull apart the connectors, pull on the connector itself, not the wire harness.

HINT : Check to see what kind of connector you are disconnecting before pulling apart.



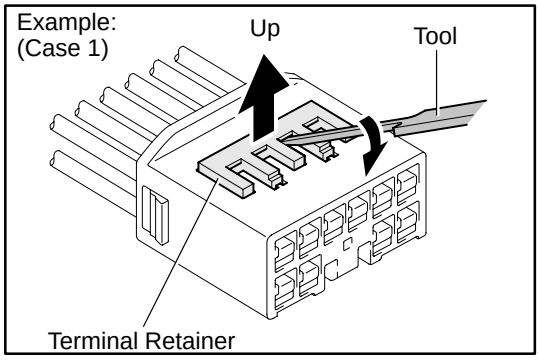


HOW TO REPLACE TERMINAL (with terminal retainer or secondary locking device)

1. PREPARE THE SPECIAL TOOL

   HINT : To remove the terminal from the connector, please construct and use the special tool or like object shown on the left.

2. DISCONNECT CONNECTOR

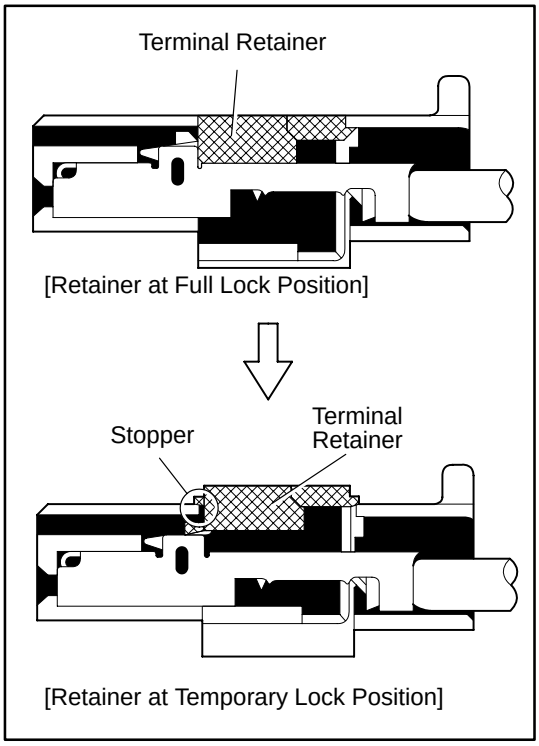


3. DISENGAGE THE SECONDARY LOCKING DEVICE OR TERMINAL RETAINER.

   (a) Locking device must be disengaged before the terminal locking clip can be released and the terminal removed from the connector.

   (b) Use a special tool or the terminal pick to unlock the secondary locking device or terminal retainer.

   NOTICE:
   Do not remove the terminal retainer from connector body.

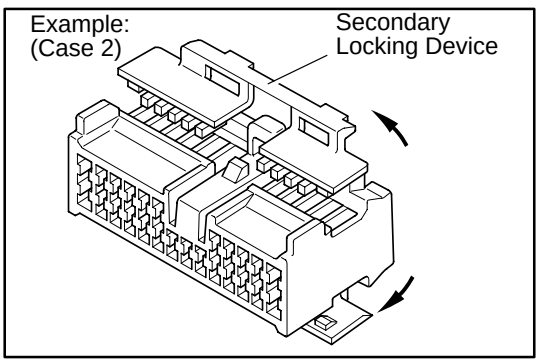


[A] For Non–Waterproof Type Connector

HINT : The needle insertion position varies according to the connector's shape (number of terminals etc.), so check the position before inserting it.

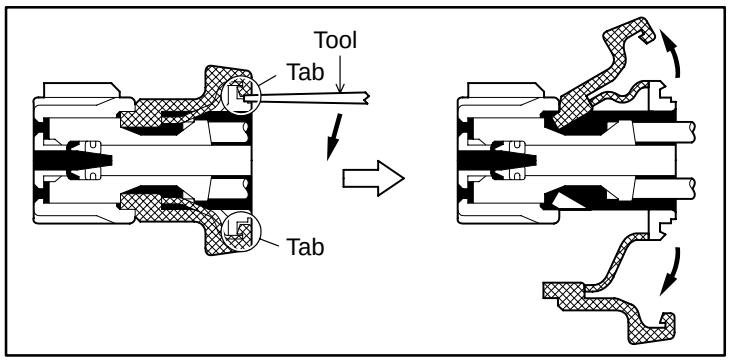
"Case 1"

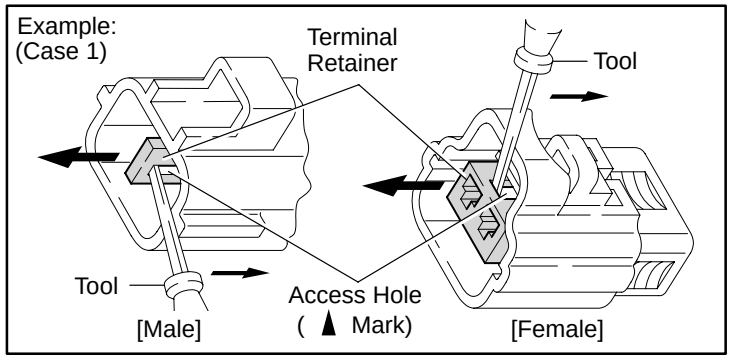
Raise the terminal retainer up to the temporary lock position.



"Case 2"

Open the secondary locking device.



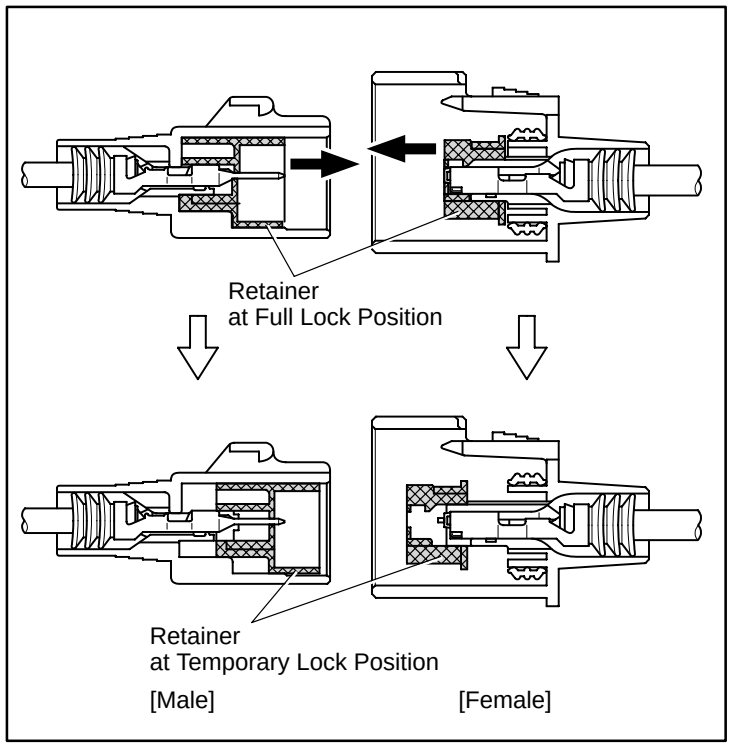


[B] For Waterproof Type Connector

HINT : Terminal retainer color is different according to connector body.

Example:

Terminal Retainer	:	Connector Body
Black or White	:	Gray
Black or White	:	Dark Gray
Gray or White	:	Black

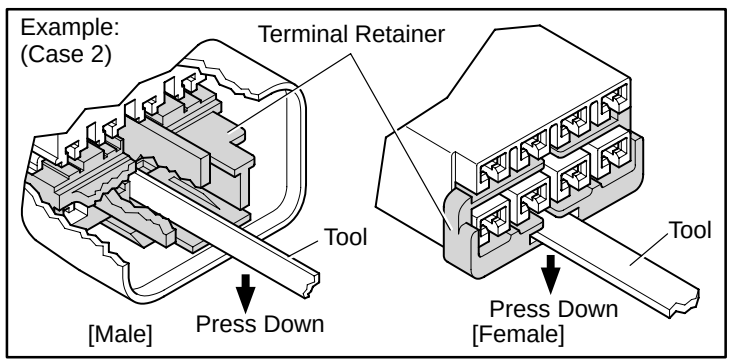


”Case 1”

Type where terminal retainer is pulled up to the temporary lock position (Pull Type).

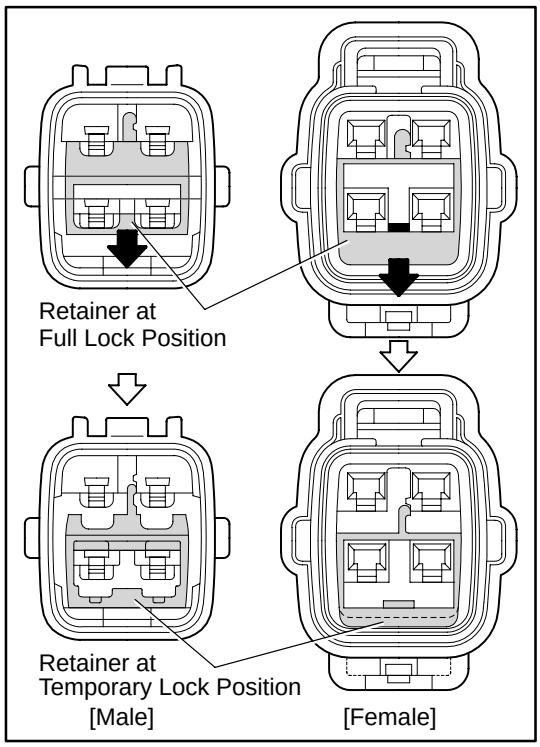
Insert the special tool into the terminal retainer access hole (▲Mark) and pull the terminal retainer up to the temporary lock position.

HINT : The needle insertion position varies according to the connector’s shape (Number of terminals etc.), so check the position before inserting it.

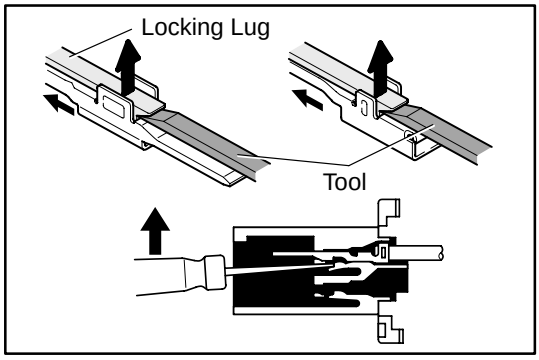


”Case 2”

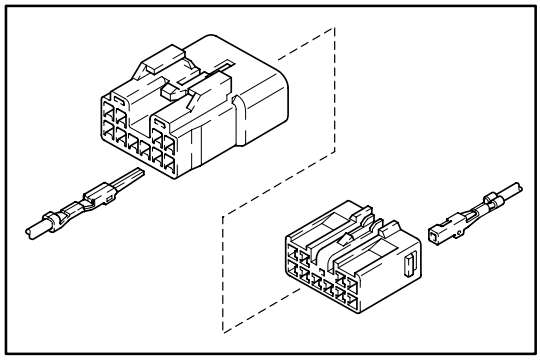
Type which cannot be pulled as far as Power Lock insert the tool straight into the access hole of terminal retainer as shown.



Push the terminal retainer down to the temporary lock position.



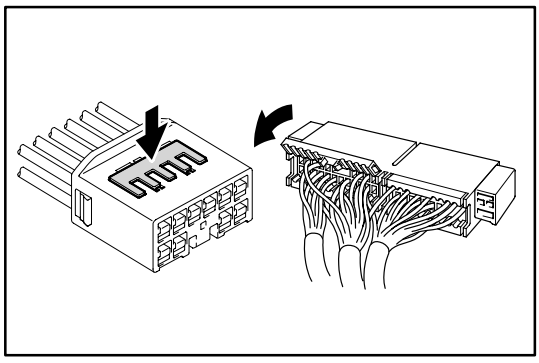
(c) Release the locking lug from terminal and pull the terminal out from rear.



4. INSTALL TERMINAL TO CONNECTOR

(a) Insert the terminal.

HINT:
1. Make sure the terminal is positioned correctly.
2. Insert the terminal until the locking lug locks firmly.
3. Insert the terminal with terminal retainer in the temporary lock position.



(b) Push the secondary locking device or terminal retainer in to the full lock position.

5. CONNECT CONNECTOR

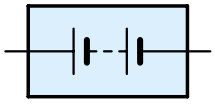
ABBREVIATIONS

The following abbreviations are used in this manual.

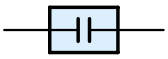
A/C	=	Air Conditioner
A/F	=	Air Fuel
A/T	=	Automatic Transaxle
ABS	=	Anti–Lock Brake System
C/B	=	Circuit Breaker
COMB.	=	Combination
DLC3	=	Data Link Connector 3
ECT	=	Electronic Control Transmission
ECU	=	Electronic Control Unit
EDU	=	Electronic Driving Unit
EFI	=	Electronic Fuel Injection
EGR	=	Exhaust Gas Recirculation
ESA	=	Electronic Spark Advance
EVAP	=	Evaporative Emission
FL	=	Fusible Link
IC	=	Integrated Circuit
INT	=	Intermittent
ISC	=	Idle Speed Control
J/B	=	Junction Block
LH	=	Left–Hand
LHD	=	Left–Hand Drive
M/T	=	Manual Transaxle
O/D	=	Overdrive
PPS	=	Progressive Power Steering
PTC	=	Positive Temperature Coefficient
R/B	=	Relay Block
RH	=	Right–Hand
RHD	=	Right–Hand Drive
SRS	=	Supplemental Restraint System
SW	=	Switch
TEMP.	=	Temperature
TVSS	=	TOYOTA Vehicle Security System
VRV	=	Vacuum Regulating Valve
VSV	=	Vacuum Switching Valve
w/	=	With
w/o	=	Without

* The titles given inside the components are the names of the terminals (terminal codes) and are not treated as being abbreviations.

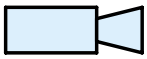
E GLOSSARY OF TERMS AND SYMBOLS



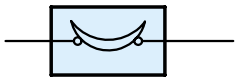
BATTERY
Stores chemical energy and converts it into electrical energy. Provides DC current for the auto's various electrical circuits.



CAPACITOR (Condenser)
A small holding unit for temporary storage of electrical voltage.



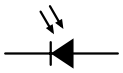
CIGARETTE LIGHTER
An electric resistance heating element.



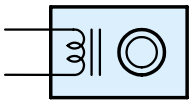
CIRCUIT BREAKER
Basically a reusable fuse, a circuit breaker will heat and open if too much current flows through it. Some units automatically reset when cool, others must be manually reset.

DIODE
A semiconductor which allows current flow in only one direction.

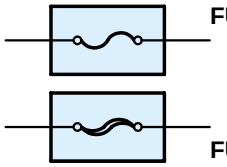
DIODE, ZENER
A diode which allows current flow in one direction but blocks reverse flow only up to a specific voltage. Above that potential, it passes the excess voltage. This acts as a simple voltage regulator.



PHOTODIODE
The photodiode is a semiconductor which controls the current flow according to the amount of light.



DISTRIBUTOR, IIA
Channels high–voltage current from the ignition coil to the individual spark plugs.



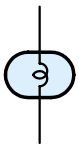
FUSE
A thin metal strip which burns through when too much current flows through it, thereby stopping current flow and protecting a circuit from damage.

(for Medium Current Fuse)

FUSIBLE LINK
A heavy–gauge wire placed in high amperage circuits which burns through on overloads, thereby protecting the circuit. The numbers indicate the crosssection surface area of the wires.

(for High Current Fuse or Fusible Link)

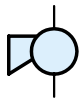
GROUND
The point at which wiring attaches to the Body, thereby providing a return path for an electrical circuit; without a ground, current cannot flow.



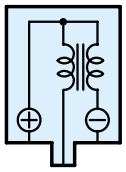
1. SINGLE FILAMENT

2. DOUBLE FILAMENT

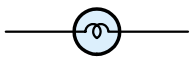
HEADLIGHTS
Current flow causes a headlight filament to heat up and emit light. A headlight may have either a single (1) filament or a double (2) filament



HORN
An electric device which sounds a loud audible signal.



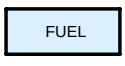
IGNITION COIL
Converts low–voltage DC current into high–voltage ignition current for firing the spark plugs.



LIGHT
Current flow through a filament causes the filament to heat up and emit light.

LED (LIGHT EMITTING DIODE)
Upon current flow, these diodes emit light without producing the heat of a comparable light.

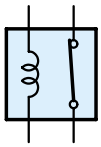
METER, ANALOG
Current flow activates a magnetic coil which causes a needle to move, thereby providing a relative display against a background calibration.



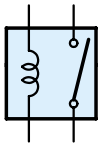
METER, DIGITAL
Current flow activates one or many LED's, LCD's, or fluorescent displays, which provide a relative or digital display.

MOTOR
A power unit which converts electrical energy into mechanical energy, especially rotary motion.

RELAY



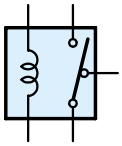
1. NORMALLY CLOSED



2. NORMALLY OPEN

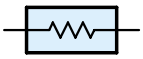
Basically, an electrically operated switch which may be normally closed (1) or open (2).
Current flow through a small coil creates a magnetic field which either opens or closes an attached switch.

RELAY, DOUBLE THROW



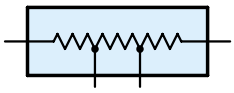
A relay which passes current through one set of contacts or the other.

RESISTOR



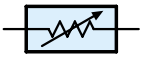
An electrical component with a fixed resistance, placed in a circuit to reduce voltage to a specific value.

RESISTOR, TAPPED



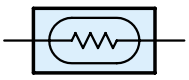
A resistor which supplies two or more different non adjustable resistance values.

RESISTOR, VARIABLE or RHEOSTAT



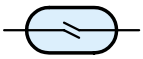
A controllable resistor with a variable rate of resistance.
Also called a potentiometer or rheostat.

SENSOR (Thermistor)



A resistor which varies its resistance with temperature.

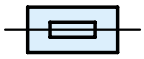
SENSOR, SPEED



(Reed Switch Type)

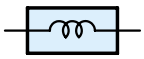
Uses magnetic impulses to open and close a switch to create a signal for activation of other components.

SHORT PIN



Used to provide an unbroken connection within a junction block.

SOLENOID

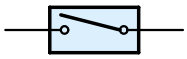


An electromagnetic coil which forms a magnetic field when current flows, to move a plunger, etc.

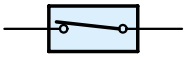
SPEAKER

An electromechanical device which creates sound waves from current flow.

SWITCH, MANUAL



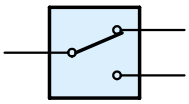
1. NORMALLY OPEN



2. NORMALLY CLOSED

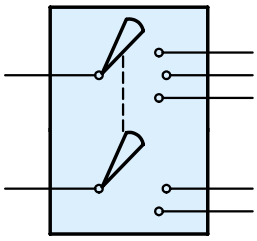
Opens and closes circuits, thereby stopping (1) or allowing (2) current flow.

SWITCH, DOUBLE THROW



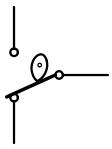
A switch which continuously passes current through one set of contacts or the other.

SWITCH, IGNITION



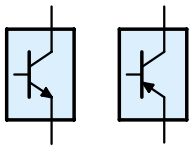
A key operated switch with several positions which allows various circuits, particularly the primary ignition circuit, to become operational.

SWITCH, WIPER PARK



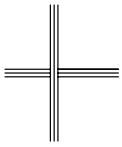
Automatically returns wipers to the stop position when the wiper switch is turned off.

TRANSISTOR

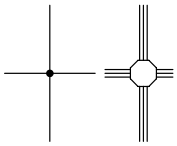


A solidstate device typically used as an electronic relay; stops or passes current depending on the voltage applied at ”base”.

WIRES



(1) NOT CONNECTED

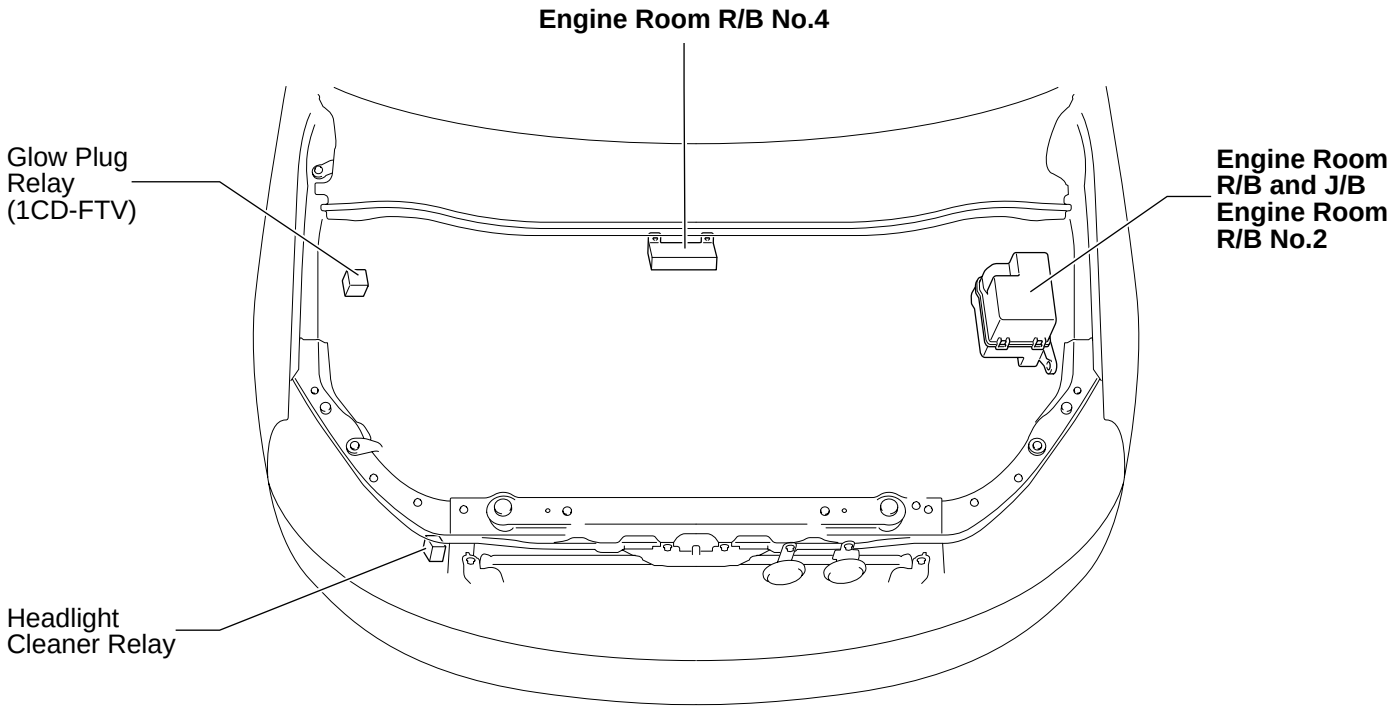


(2) SPLICED

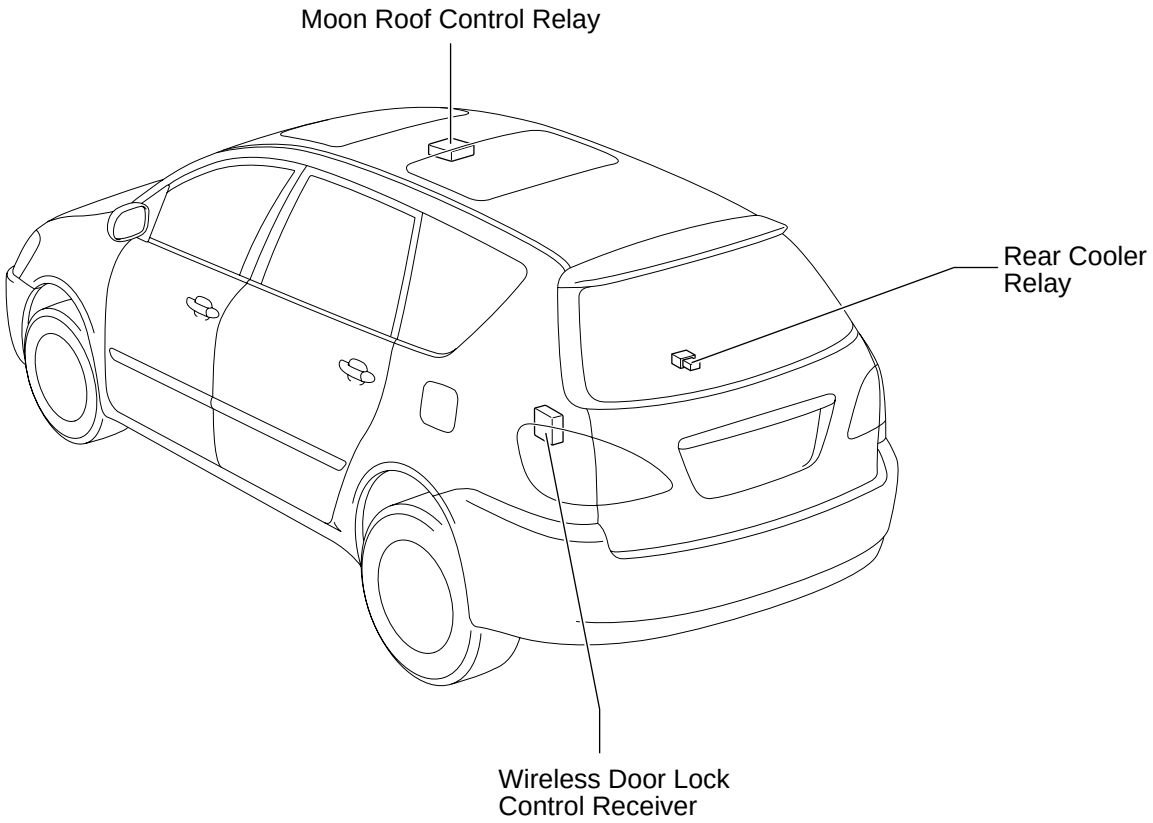
Wires are always drawn as straight lines on wiring diagrams.
Crossed wires (1) without a black dot at the junction are not joined;
crossed wires (2) with a black dot or octagonal (⬡) mark at the junction are spliced (joined) connections.

F RELAY LOCATIONS

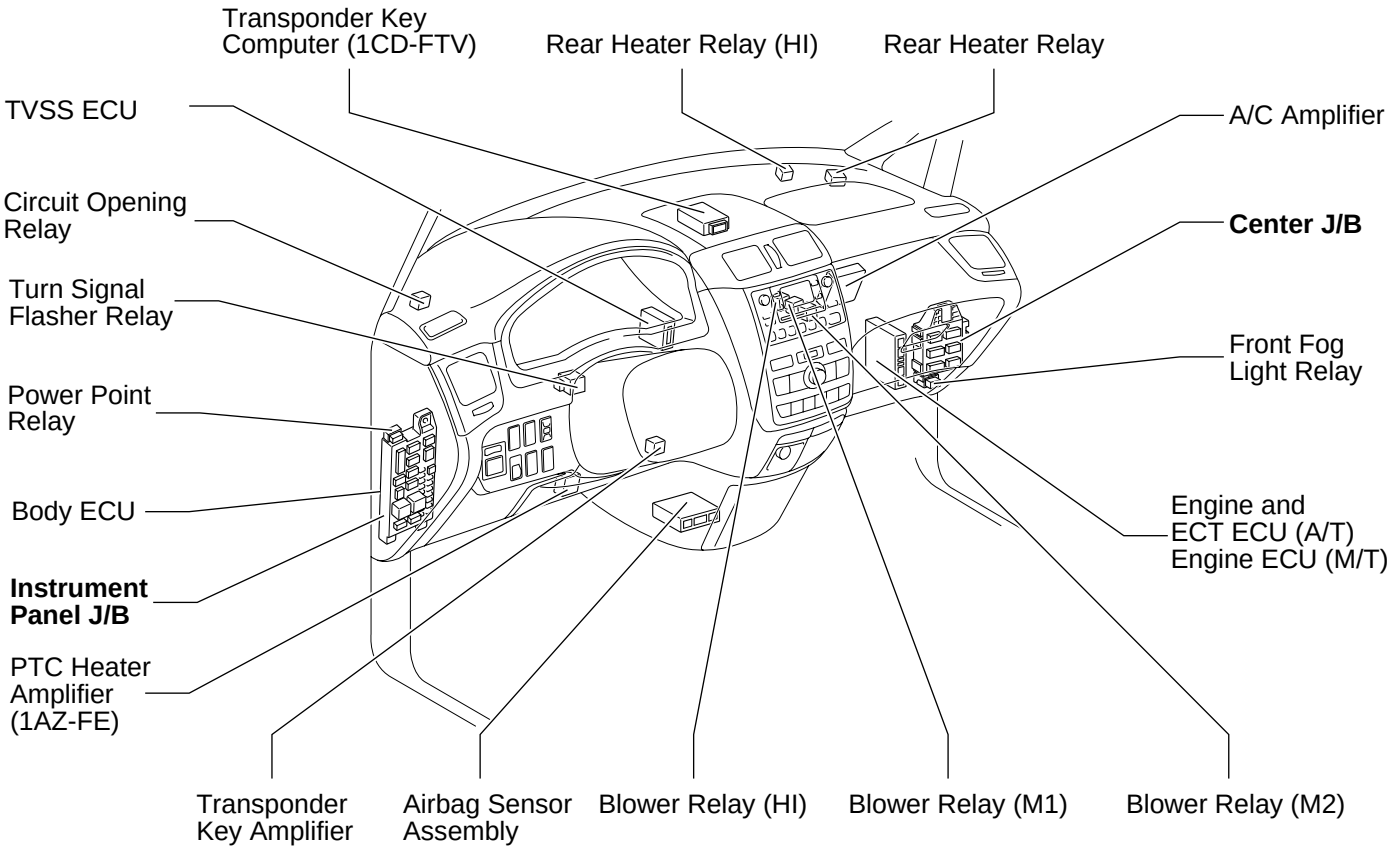
[Engine Compartment]



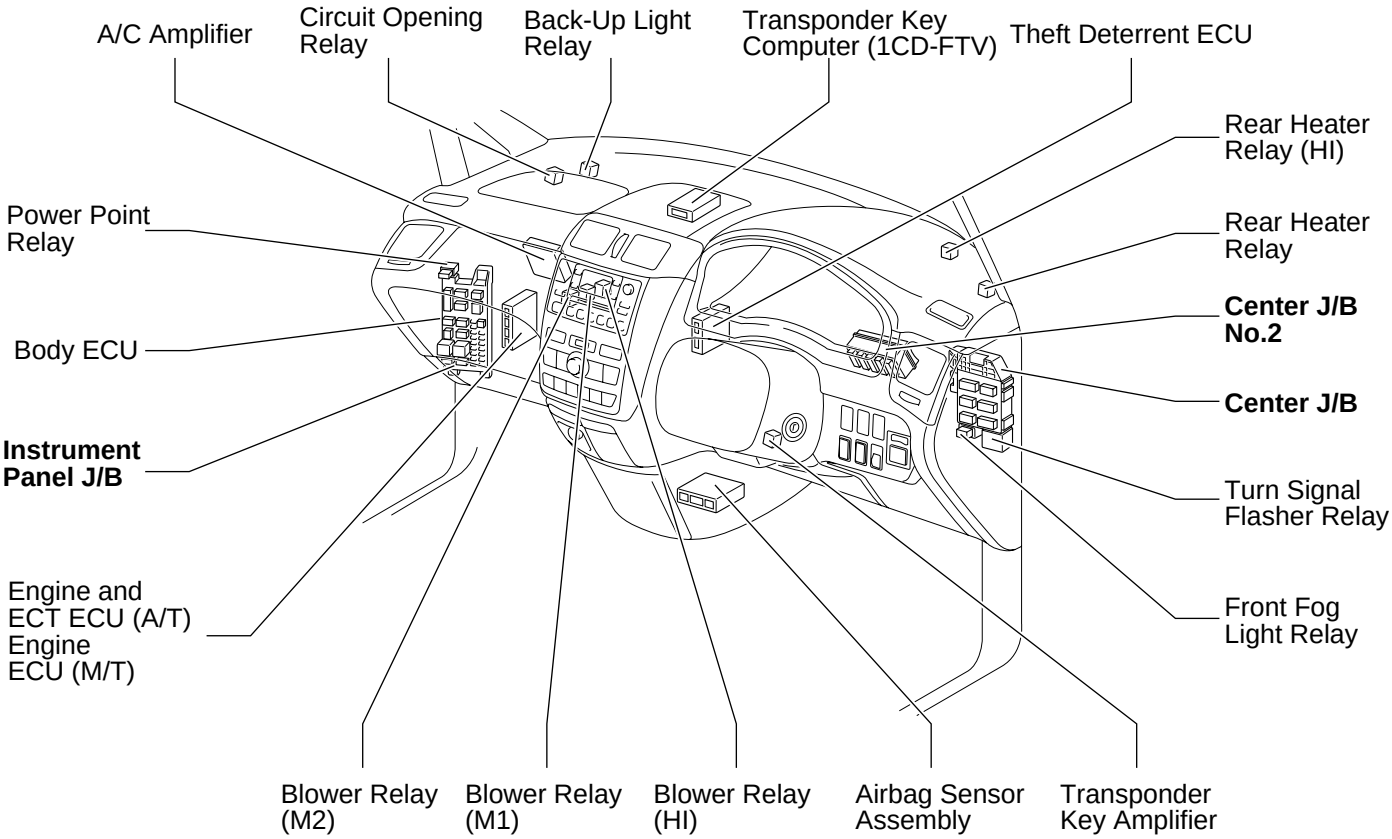
[Body]



[Instrument Panel]
(LHD)

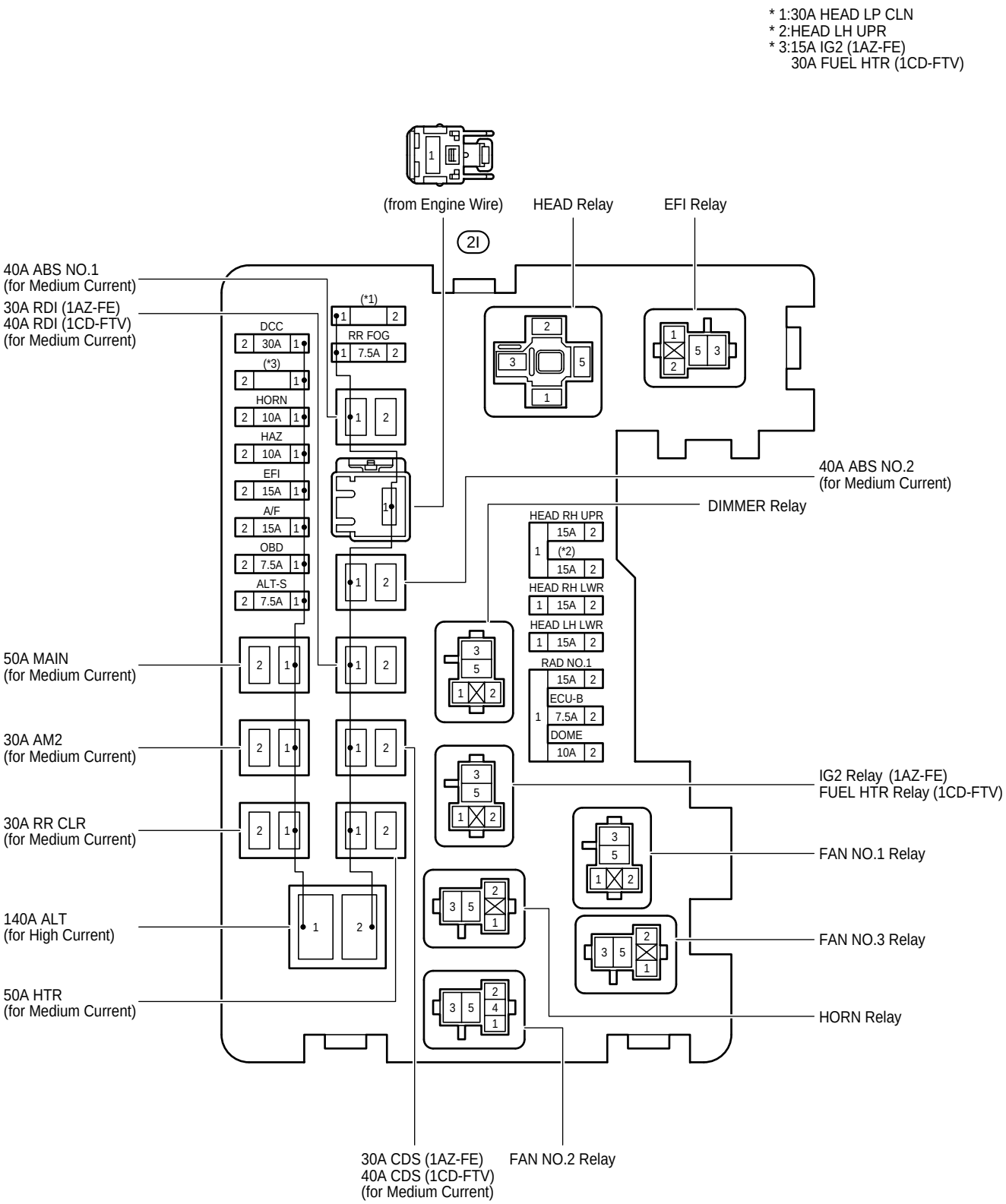


(RHD)

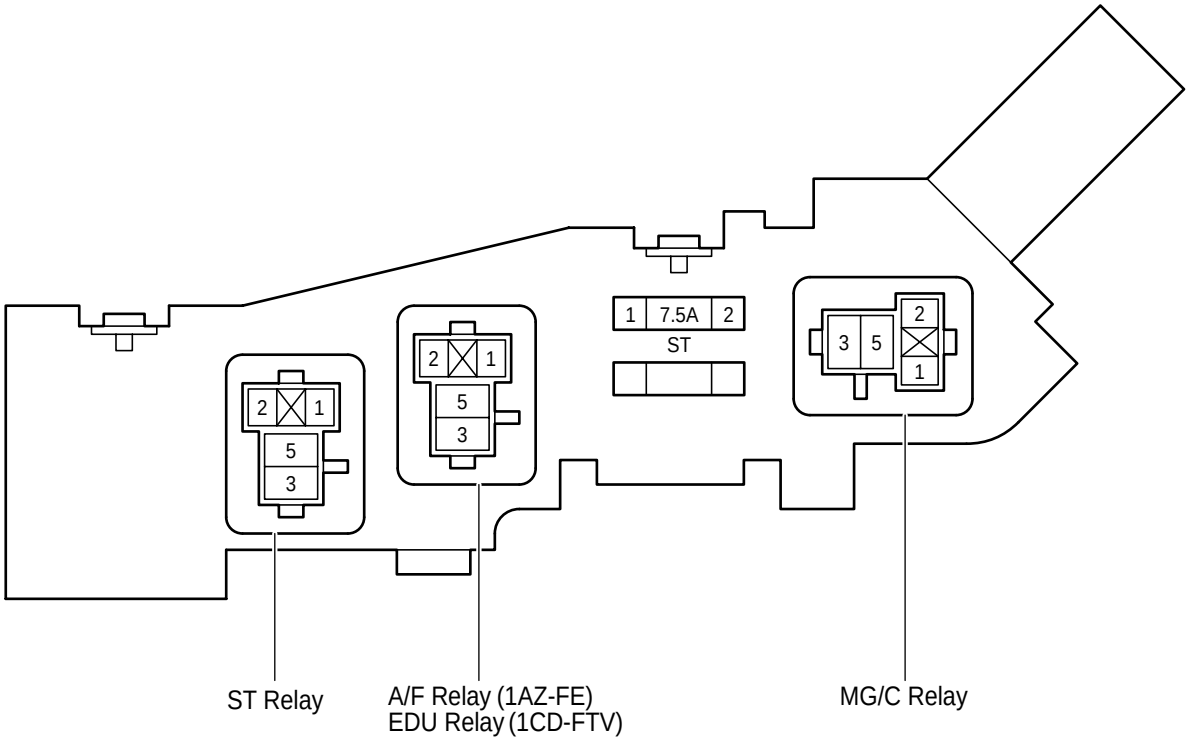


F RELAY LOCATIONS

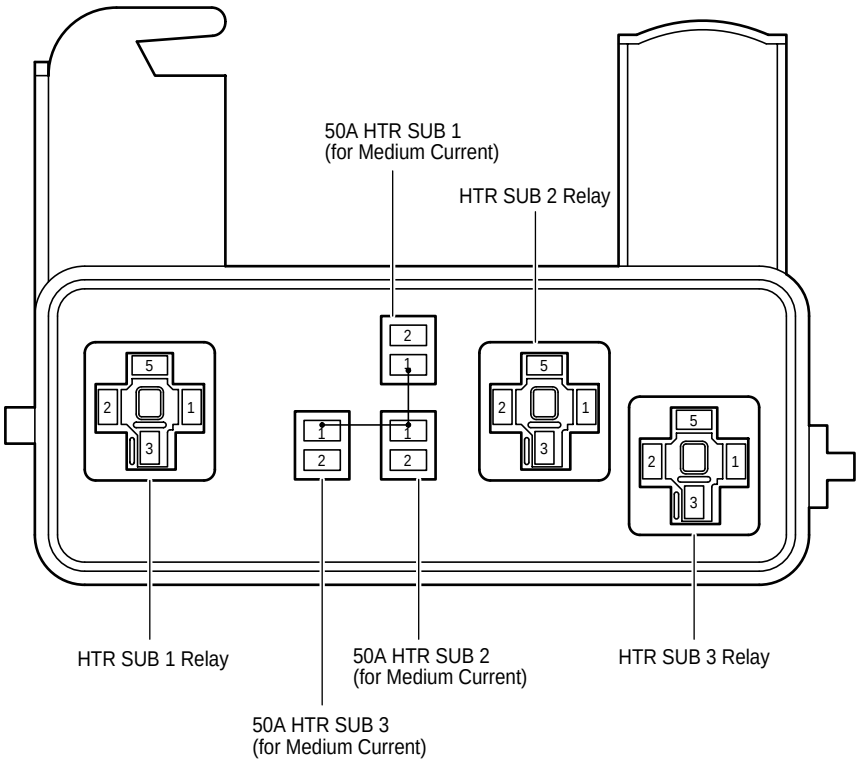
② : Engine Room R/B and J/B	Front Side of Left Suspension Tower (See Page 20)



⑦ : Engine Room R/B No.2	Front Side of Left Suspension Tower (See Page 20)

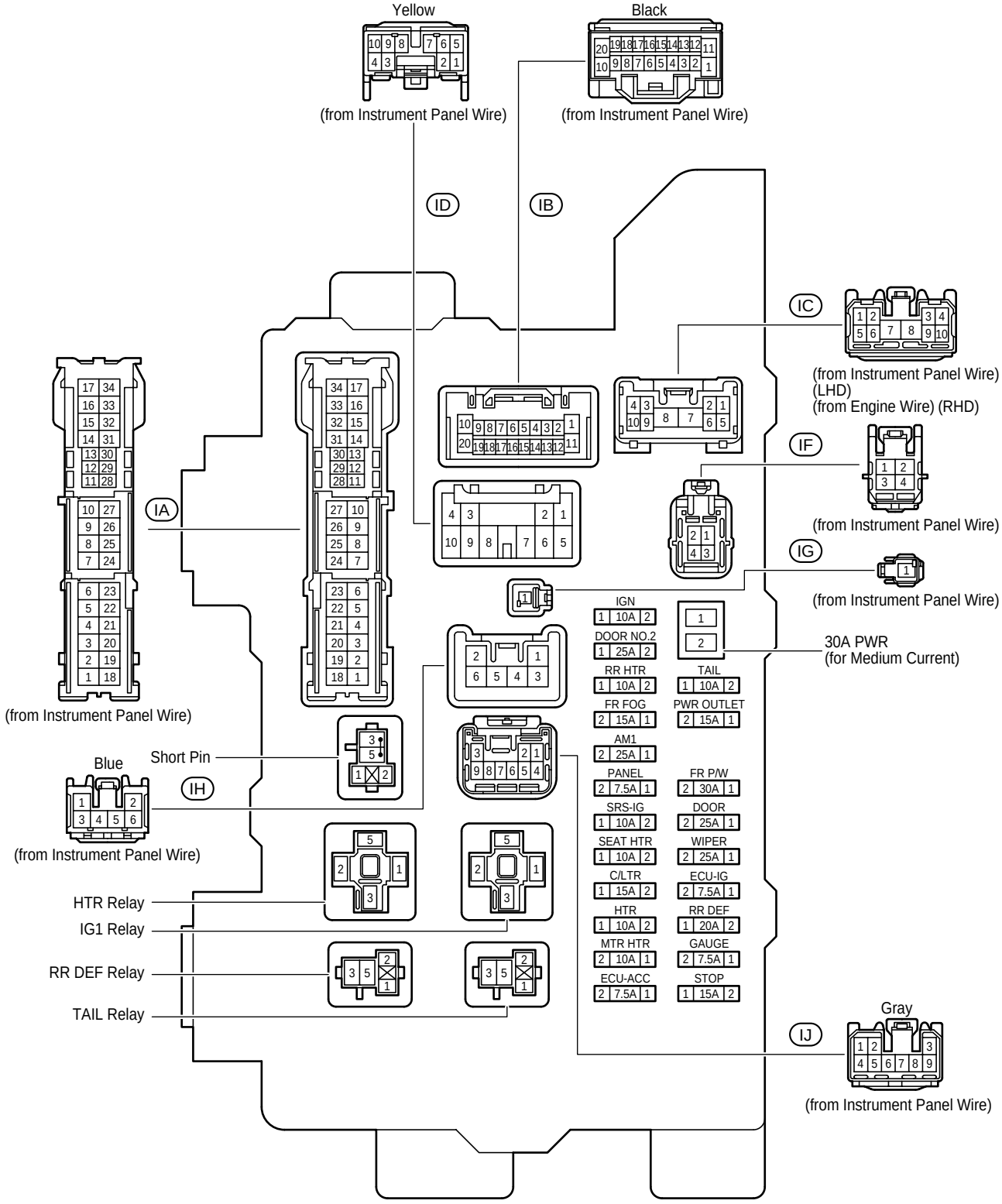


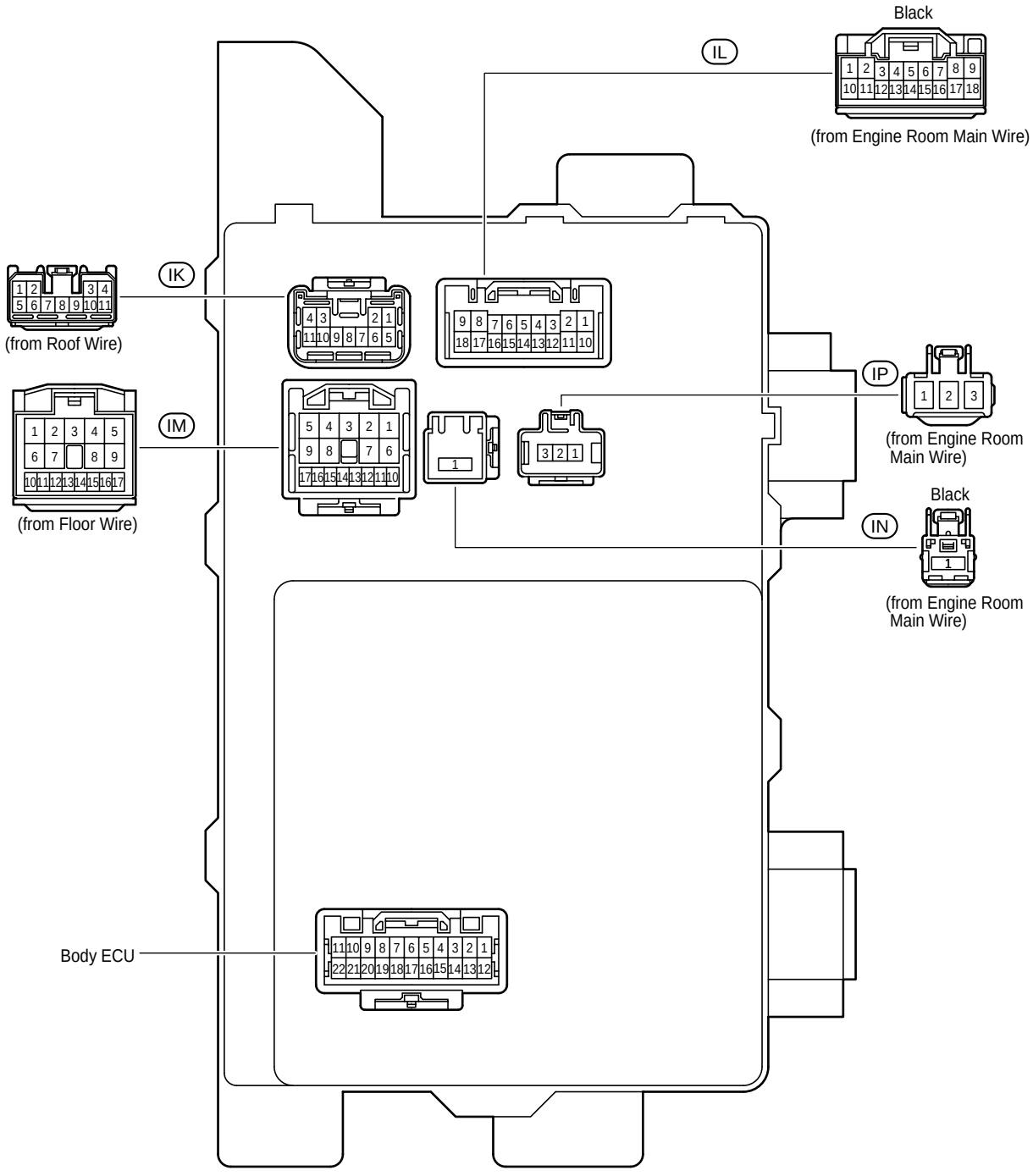
⑤ : Engine Room R/B No.4	Left Side of Air Cleaner (See Page 20)



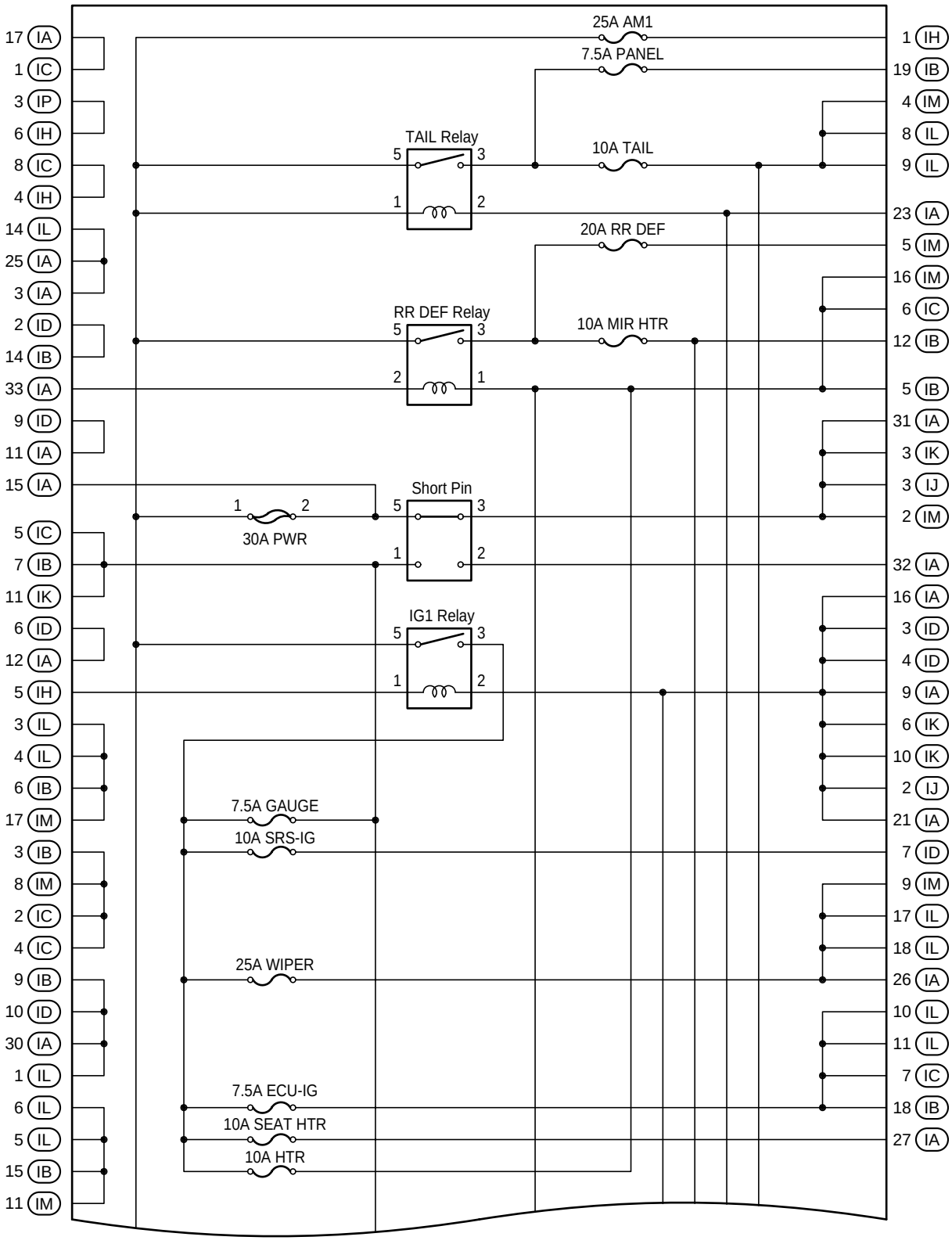
F RELAY LOCATIONS

: Instrument Panel J/B	LHD : Lower Finish Panel (See Page 21)
	RHD : Left Side of Grove Box (See Page 21)



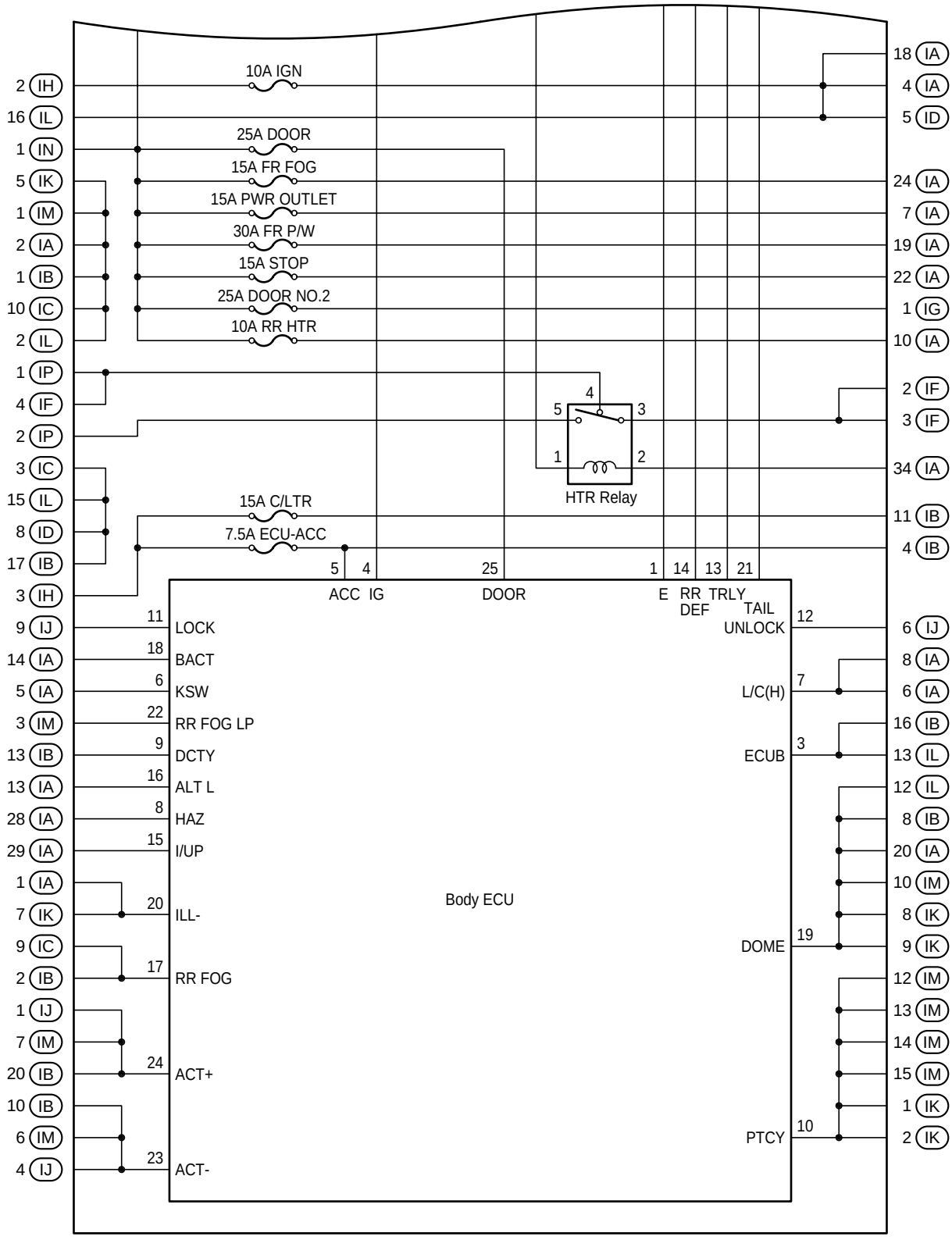

Black
IL
(from Engine Room Main Wire)
IK
(from Roof Wire)
IP
(from Engine Room Main Wire)
IM
(from Floor Wire)
Black
IN
(from Engine Room Main Wire)
Body ECU

[Instrument Panel J/B Inner Circuit]



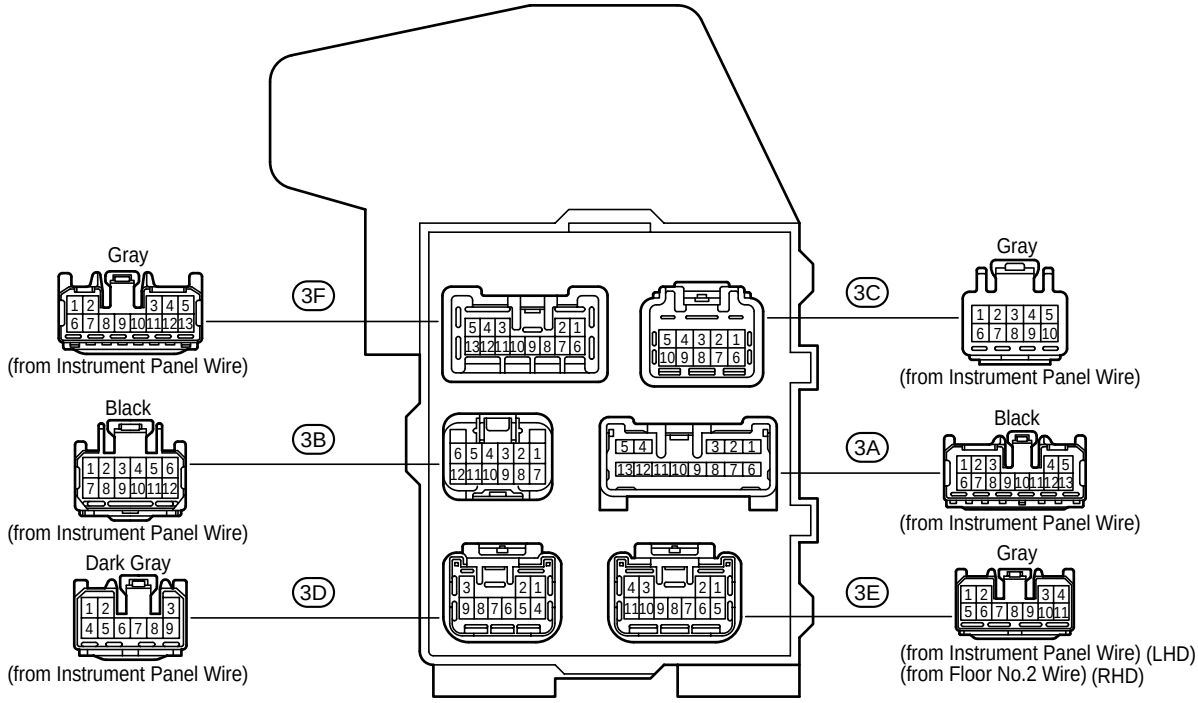
(Cont. next page)

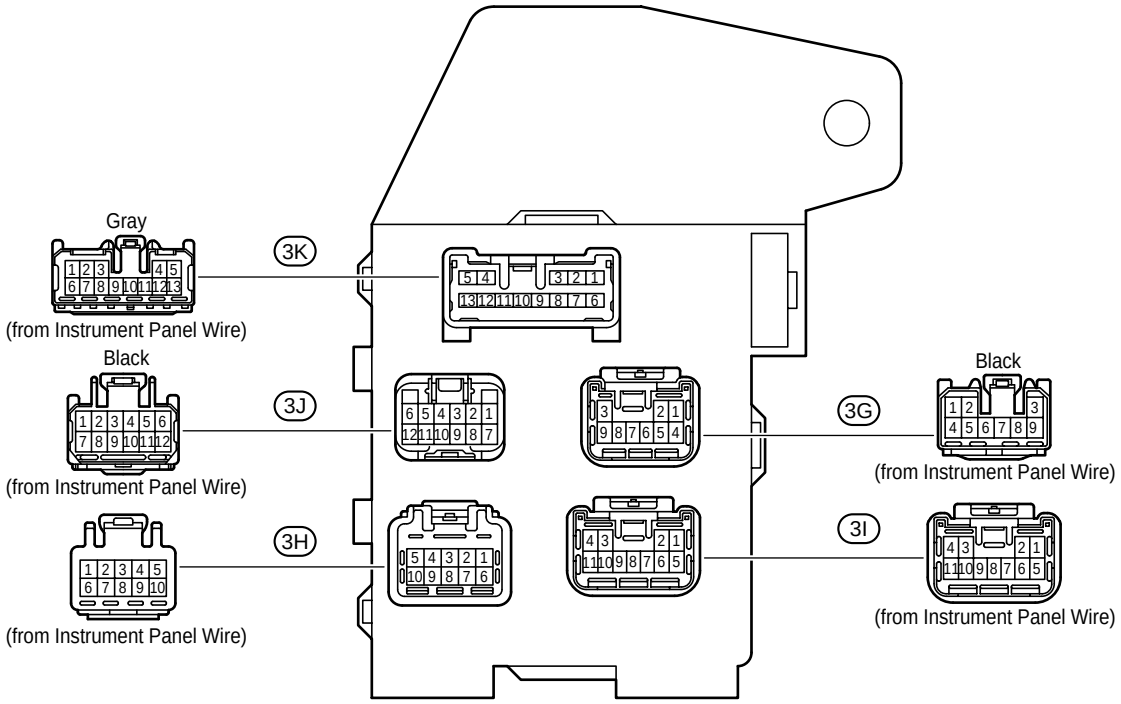
(Cont'd)


10A IGN
25A DOOR
15A FR FOG
15A PWR OUTLET
30A FR P/W
15A STOP
25A DOOR NO.2
10A RR HTR
15A C/LTR
7.5A ECU-ACC
HTR Relay
ACC
IG
DOOR
E
RR DEF
TRLY
TAIL
LOCK
BACT
KSW
RR FOG LP
DCTY
ALT L
HAZ
I/UP
ILL-
RR FOG
ACT+
ACT-
UNLOCK
L/C(H)
ECUB
DOME
PTCY
Body ECU

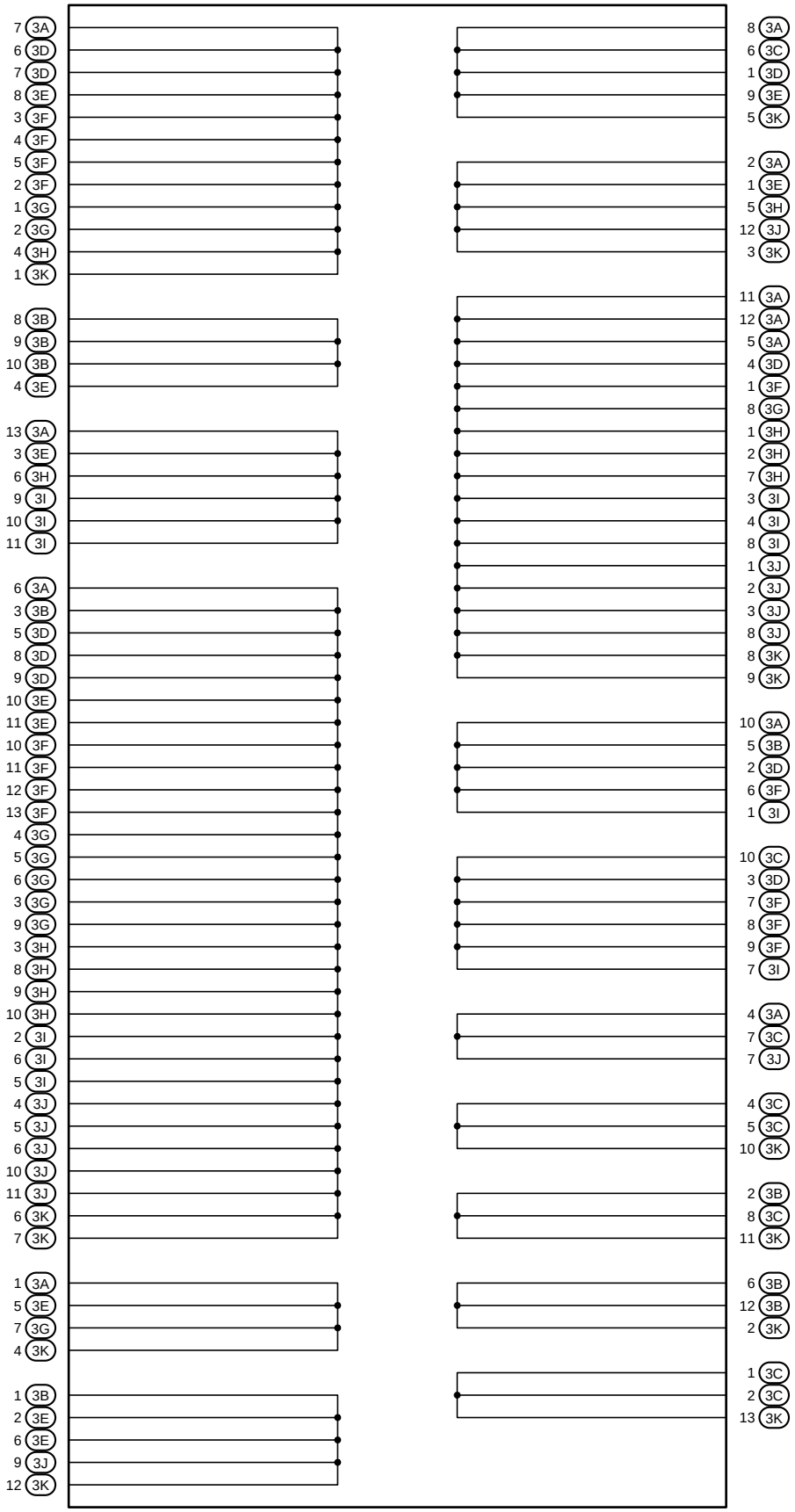
F RELAY LOCATIONS

: Center J/B	LHD : Right Side of Grove Box (See Page 21)
	RHD : Lower Finish Panel (See Page 21)



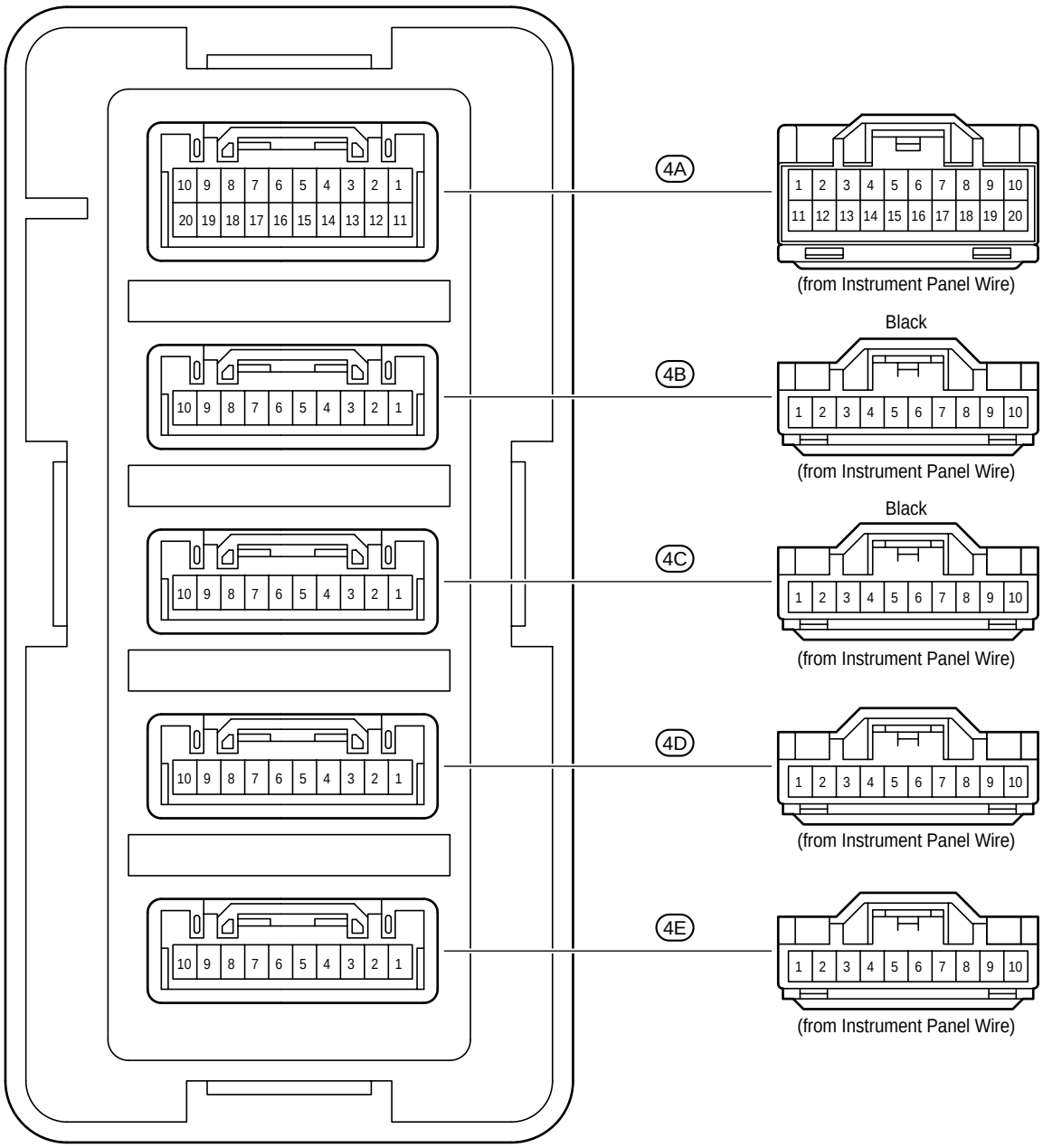


[Center J/B Inner Circuit]

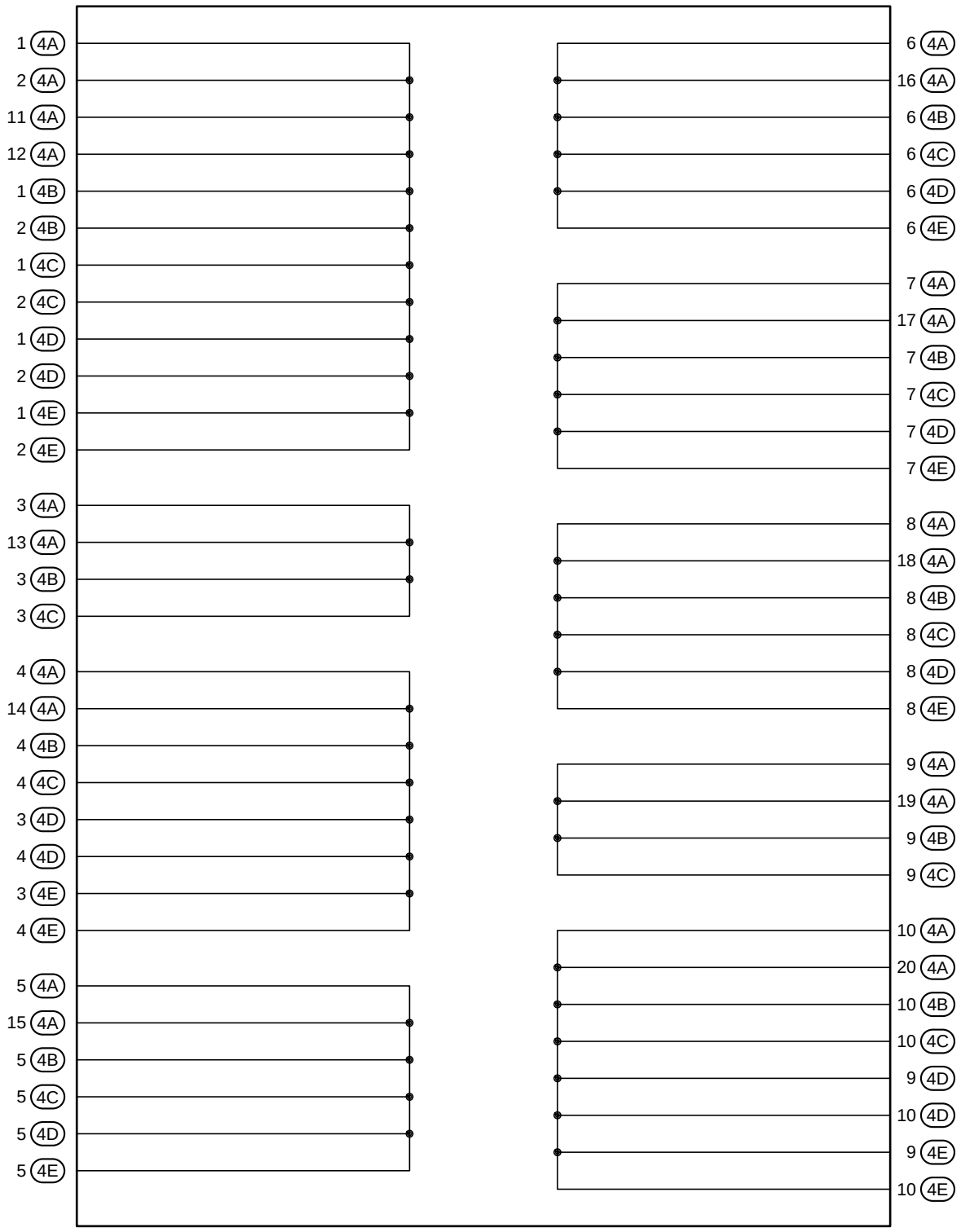


F RELAY LOCATIONS

: Center J/B No.2	Near the Steering Column (See Page 21)

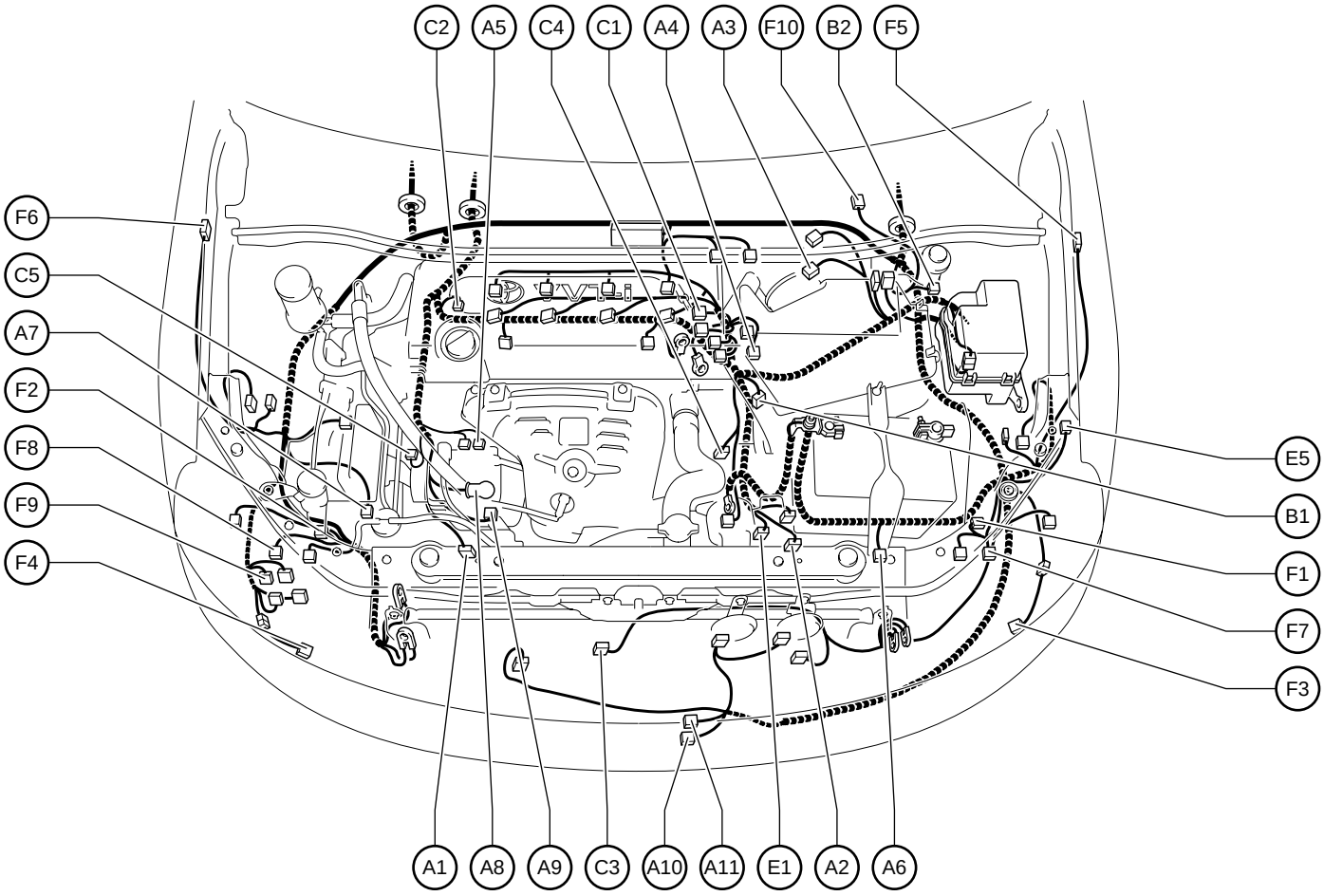


[Center J/B No.2 Inner Circuit]



Position of Parts in Engine Compartment

[LHD : 1AZ–FE]



A 1 A/C Lock Sensor
A/C Magnetic Clutch
A 2 A/T Indicator Light SW
Back–Up Light SW
Neutral Start SW
A 3 Air Flow Meter
A 4 Air Fuel Ratio Sensor (Bank 1 Sensor 1)
A 5 Air Fuel Ratio Sensor (Bank 1 Sensor 2)
A 6 Airbag Sensor Front LH
A 7 Airbag Sensor Front RH
A 8 Alternator
A 9 Alternator
A10 Ambient Temp. Sensor No.1
A11 Ambient Temp. Sensor No.2

B 1 Back–Up Light SW
B 2 Brake Fluid Level Warning SW

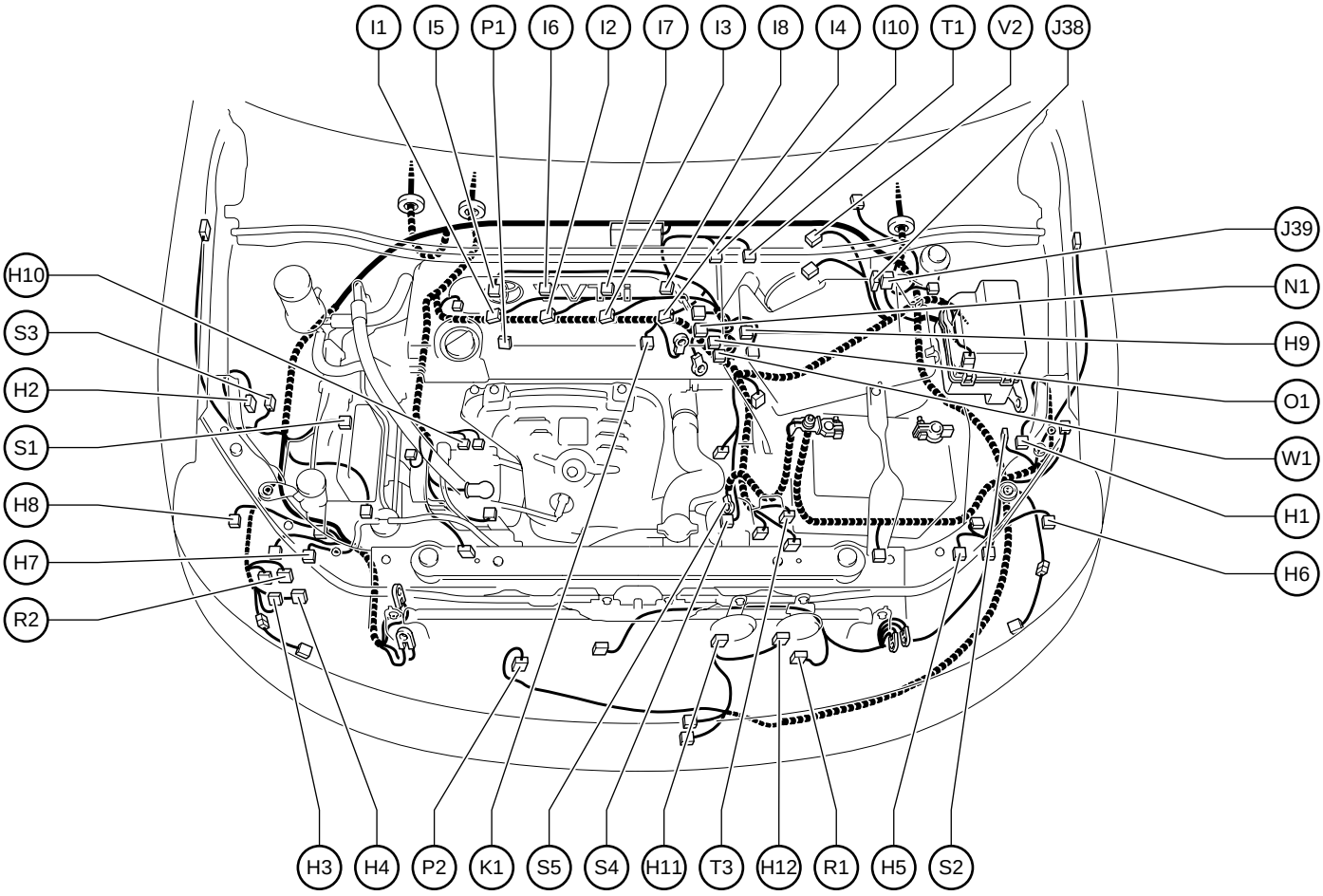
C 1 Camshaft Position Sensor
C 2 Camshaft Timing Oil Control Valve
C 3 Condenser Fan Motor
C 4 Counter Gear Speed Sensor
C 5 Crankshaft Position Sensor

E 1 ECT Solenoid
E 5 Engine Hood Courtesy SW

F 1 Front Clearance Light LH
F 2 Front Clearance Light RH
F 3 Front Fog Light LH
F 4 Front Fog Light RH
F 5 Front Side Turn Signal Light LH
F 6 Front Side Turn Signal Light RH
F 7 Front Turn Signal Light LH
F 8 Front Turn Signal Light RH
F 9 Front Washer Motor
F10 Front Wiper Motor

Position of Parts in Engine Compartment

[LHD : 1AZ–FE]



H 1 Headlight Beam Level Control Actuator LH
H 2 Headlight Beam Level Control Actuator RH
H 3 Headlight Cleaner Motor
H 4 Headlight Cleaner Relay
H 5 Headlight LH (High)
H 6 Headlight LH (Low)
H 7 Headlight RH (High)
H 8 Headlight RH (Low)
H 9 Heated Oxygen Sensor (Bank 1 Sensor 2)
H10 Heated Oxygen Sensor (Bank 2 Sensor 2)
H11 Horn (High)
H12 Horn (Low)

I 1 Ignition Coil and Igniter No.1
I 2 Ignition Coil and Igniter No.2
I 3 Ignition Coil and Igniter No.3
I 4 Ignition Coil and Igniter No.4
I 5 Injector No.1
I 6 Injector No.2
I 7 Injector No.3
I 8 Injector No.4
I 10 ISC Valve

J 38 Junction Block
J 39 Junction Block

K 1 Knock Sensor

N 1 Noise Filter

O 1 Oil Pressure SW

P 1 Power Steering Oil Pressure SW
P 2 Pressure SW

R 1 Radiator Fan Motor
R 2 Rear Washer Motor

S 1 Skid Control ECU with Actuator
S 2 Speed Sensor Front LH
S 3 Speed Sensor Front RH
S 4 Starter
S 5 Starter

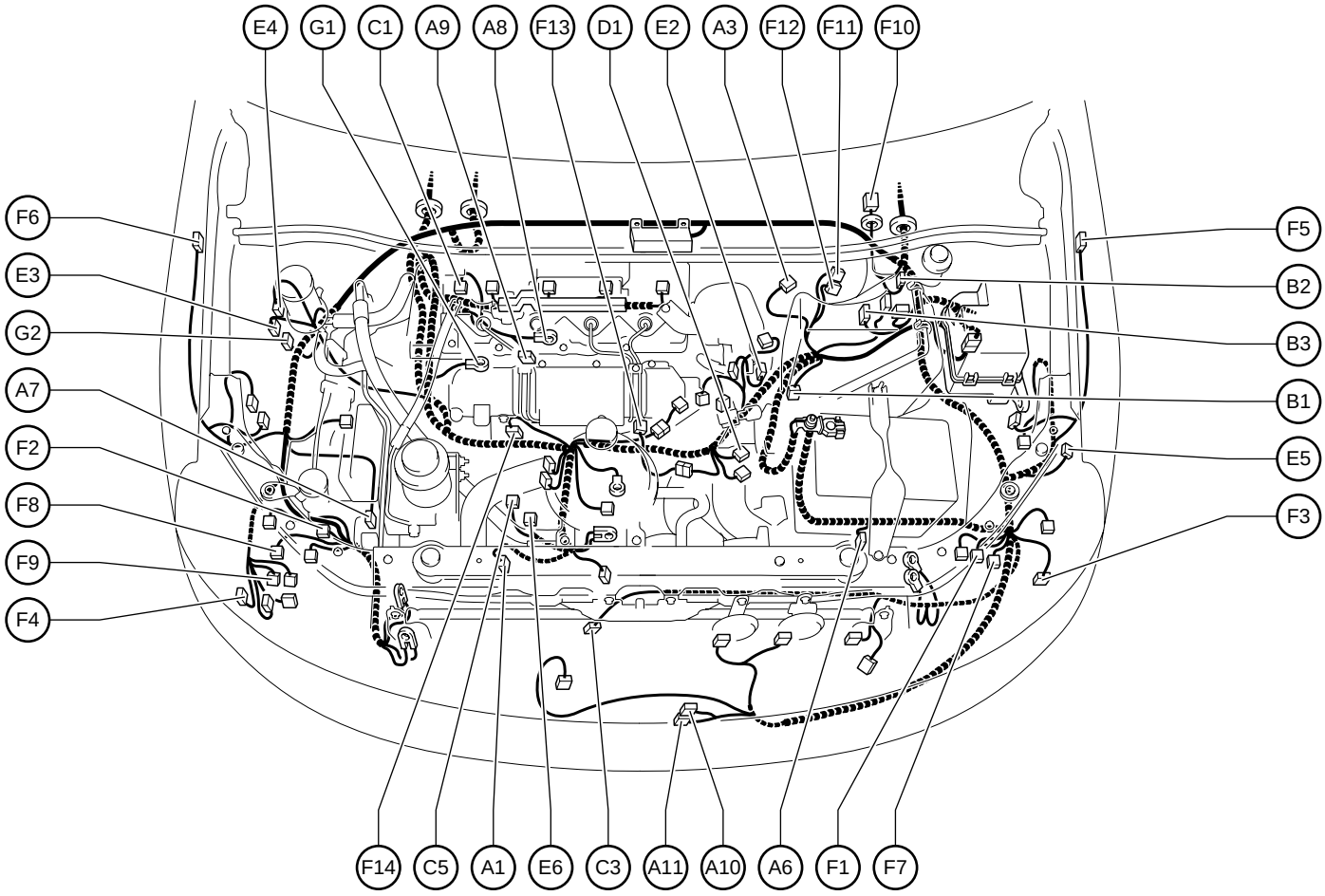
T 1 Throttle Position Sensor
T 3 Turbine Speed Sensor

V 2 VSV (EVAP)

W 1 Water Temp. Sensor

Position of Parts in Engine Compartment

[LHD : 1CD–FTV]



A 1 A/C Lock Sensor
A/C Magnetic Clutch
A 3 Air Flow Meter
A 6 Airbag Sensor Front LH
A 7 Airbag Sensor Front RH
A 8 Alternator
A 9 Alternator
A 10 Ambient Temp. Sensor No.1
A 11 Ambient Temp. Sensor No.2

B 1 Back–Up Light SW
B 2 Brake Fluid Level Warning SW
B 3 Brake Vacuum Warning SW

C 1 Camshaft Position Sensor
C 3 Condenser Fan Motor
C 5 Crankshaft Position Sensor

D 1 Diesel Throttle Control Motor

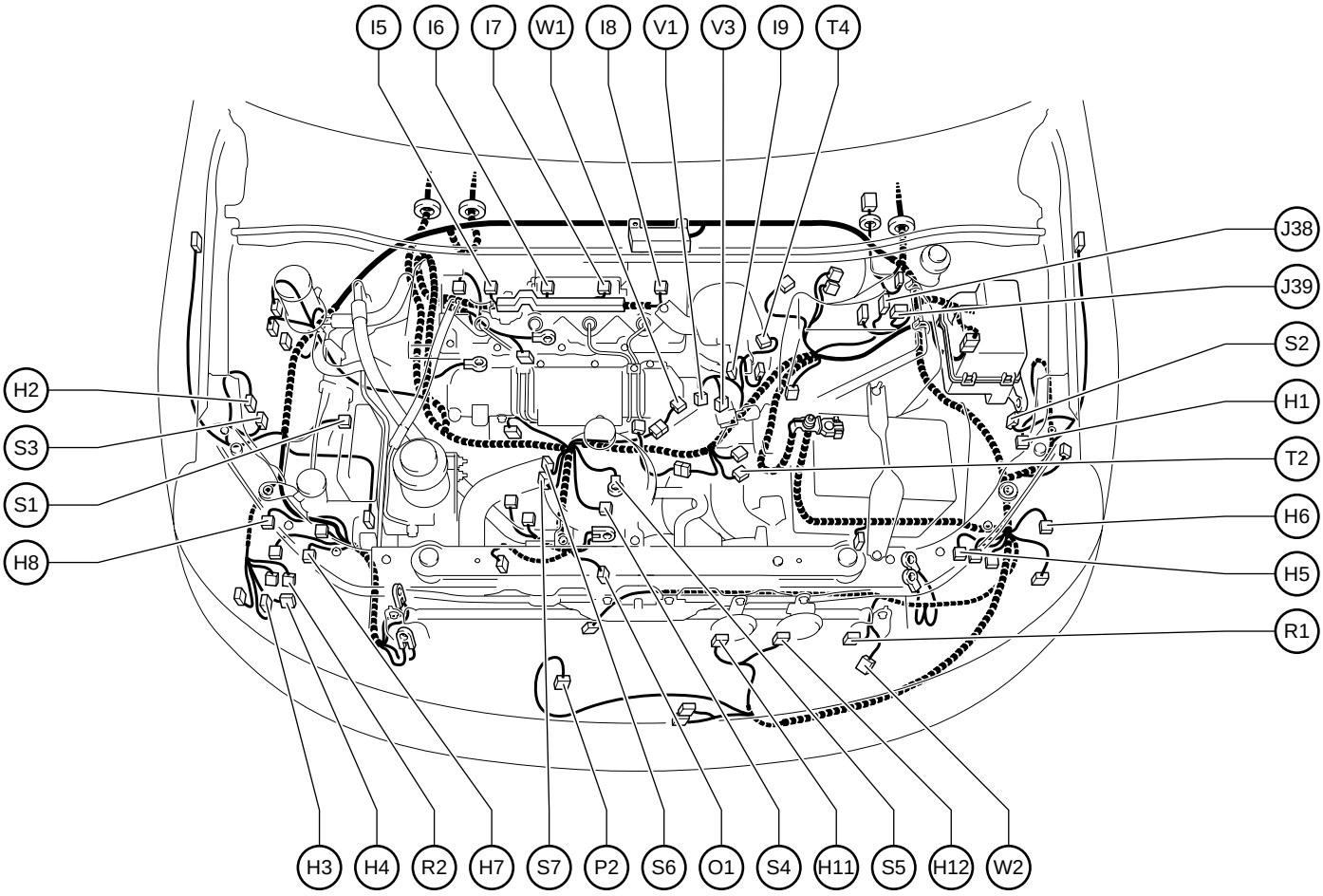
E 2 EGR Valve Control Motor
E 3 Electronic Driver Unit
E 4 Electronic Driver Unit
E 5 Engine Hood Courtesy SW
E 6 Engine Oil Level Sensor

F 1 Front Clearance Light LH
F 2 Front Clearance Light RH
F 3 Front Fog Light LH
F 4 Front Fog Light RH
F 5 Front Side Turn Signal Light LH
F 6 Front Side Turn Signal Light RH
F 7 Front Turn Signal Light LH
F 8 Front Turn Signal Light RH
F 9 Front Washer Motor
F 10 Front Wiper Motor
F 11 Fuel Filter Warning SW
F 12 Fuel Heater
F 13 Fuel Pressure Sensor
F 14 Fuel Temp. Sensor

G 1 Glow Plug
G 2 Glow Plug Relay

Position of Parts in Engine Compartment

[LHD : 1CD–FTV]



H 1 Headlight Beam Level Control Actuator LH
H 2 Headlight Beam Level Control Actuator RH
H 3 Headlight Cleaner Motor
H 4 Headlight Cleaner Relay
H 5 Headlight LH (High)
H 6 Headlight LH (Low)
H 7 Headlight RH (High)
H 8 Headlight RH (Low)
H 11 Horn (High)
H 12 Horn (Low)

I 5 Injector No.1
I 6 Injector No.2
I 7 Injector No.3
I 8 Injector No.4
I 9 Intake Air Temp. Sensor

J 38 Junction Block
J 39 Junction Block

O 1 Oil Pressure SW

P 2 Pressure SW

R 1 Radiator Fan Motor
R 2 Rear Washer Motor

S 1 Skid Control ECU with Actuator
S 2 Speed Sensor Front LH
S 3 Speed Sensor Front RH
S 4 Starter
S 5 Starter
S 6 Suction Control Valve No.1
S 7 Suction Control Valve No.2

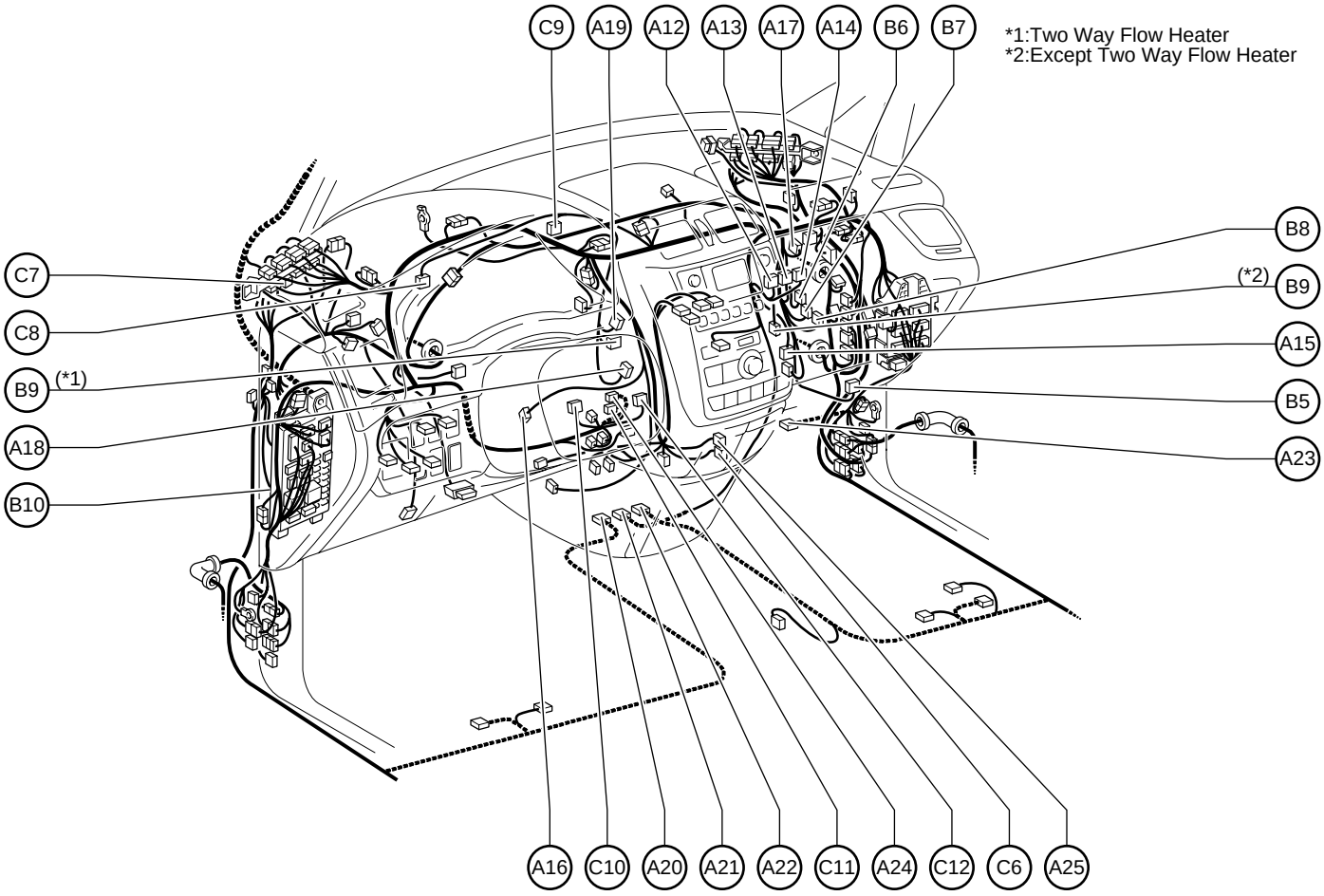
T 2 Throttle Position SW
T 4 Turbo Pressure Sensor

V 1 VRV (EGR)
V 3 VSV (Turbo Pressure Sensor)

W 1 Water Temp. Sensor
W 2 Water Temp. SW

Position of Parts in Instrument Panel

[LHD]



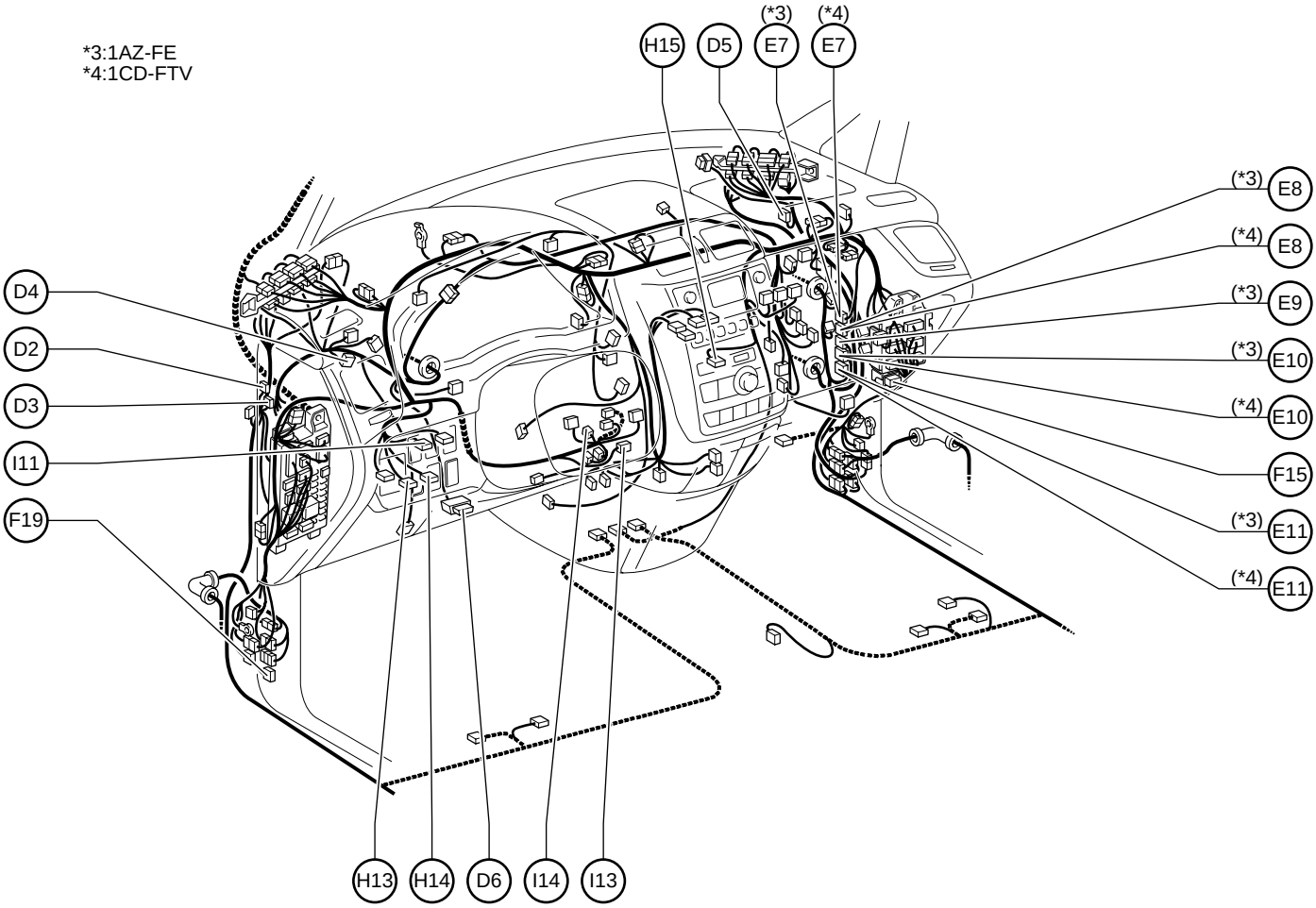
A12 A/C Amplifier
A13 A/C Amplifier
A14 A/C Amplifier
A15 A/C Evaporator Temp. Sensor
A16 Accelerator Pedal Position Sensor
A17 Air Inlet Control Servo Motor
A18 Air Mix Control Servo Motor
A19 Air Vent Mode Control Servo Motor
A20 Airbag Sensor Assembly
A21 Airbag Sensor Assembly
A22 Airbag Sensor Assembly
A23 Airbag Squib (Front Passenger Airbag Assembly)
A24 Airbag Squib (Steering Wheel Pad)
A25 Ashtray Illumination

B 5 Blower Motor
B 6 Blower Relay (HI)
B 7 Blower Relay (M1)
B 8 Blower Relay (M2)
B 9 Blower Resistor
B10 Body ECU

C 6 Cigarette Lighter
C 7 Circuit Opening Relay
C 8 Combination Meter
C 9 Combination Meter
C10 Combination SW
C11 Combination SW
C12 Combination SW

Position of Parts in Instrument Panel

[LHD]



D 2 Diode
D 3 Diode
D 4 Diode (Fan)
D 5 Diode
D 6 DLC3

E 7 Engine and ECT ECU (A/T)
Engine ECU (M/T)
E 8 Engine and ECT ECU (A/T)
Engine ECU (M/T)
E 9 Engine and ECT ECU (A/T)
Engine ECU (M/T)
E 10 Engine and ECT ECU (A/T)
Engine ECU (M/T)
E 11 Engine and ECT ECU (A/T)
Engine ECU (M/T)

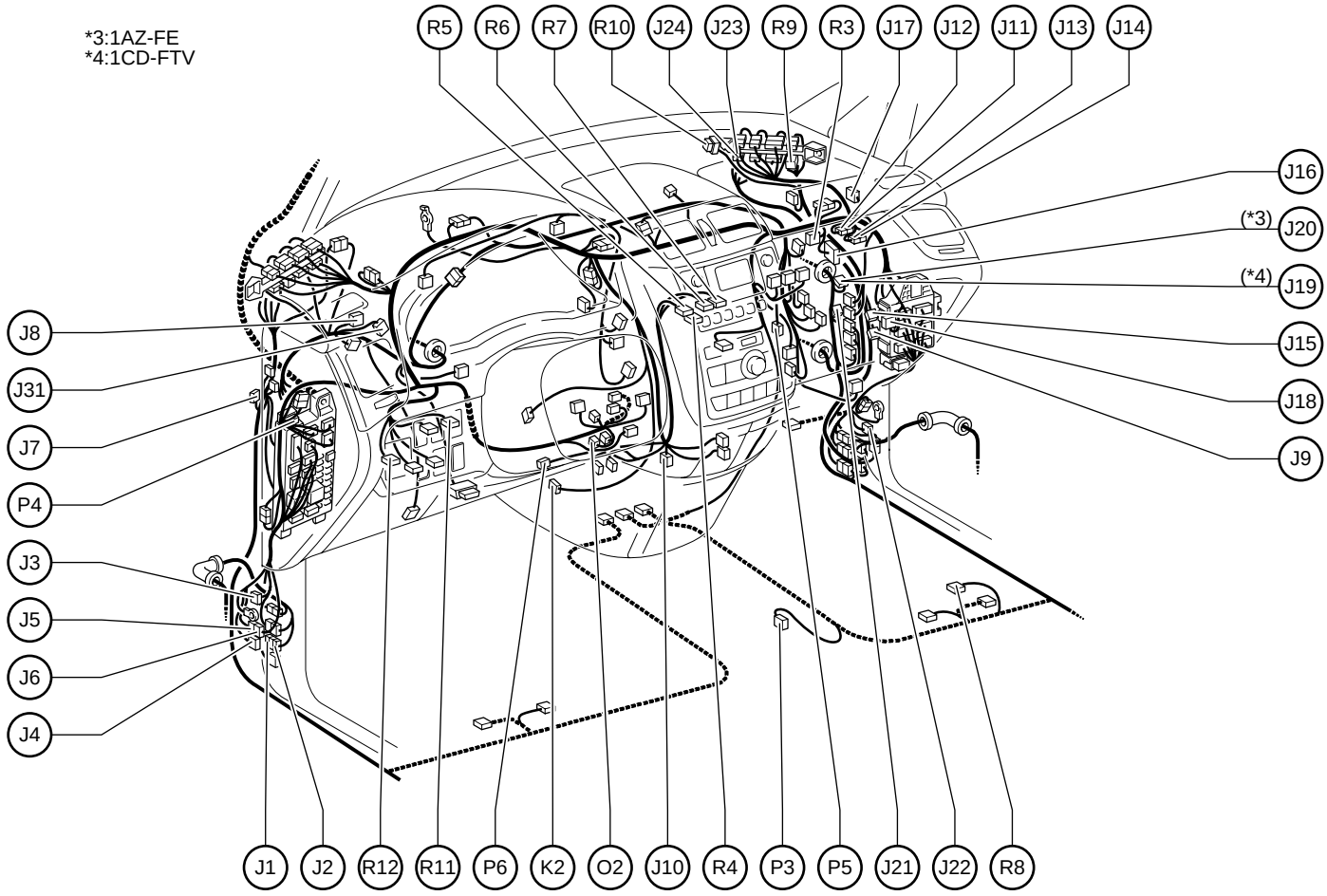
F 15 Front Fog Light Relay
F 19 Fuse Holder

H13 Headlight Beam Level Control SW
H14 Headlight Cleaner SW
H15 Heater Control Panel

I 11 Idle–Up SW
I 13 Ignition Key Cylinder Light
Transponder Key Amplifier
I 14 Ignition SW

Position of Parts in Instrument Panel

[LHD]



J 1 Junction Connector
J 2 Junction Connector
J 3 Junction Connector
J 4 Junction Connector
J 5 Junction Connector
J 6 Junction Connector
J 7 Junction Connector
J 8 Junction Connector
J 9 Junction Connector
J 10 Junction Connector
J 11 Junction Connector
J 12 Junction Connector
J 13 Junction Connector
J 14 Junction Connector
J 15 Junction Connector
J 16 Junction Connector
J 17 Junction Connector
J 18 Junction Connector
J 19 Junction Connector
J 20 Junction Connector
J 21 Junction Connector
J 22 Junction Connector
J 23 Junction Connector
J 24 Junction Connector
J 31 Junction Connector

K 2 Kick Down SW

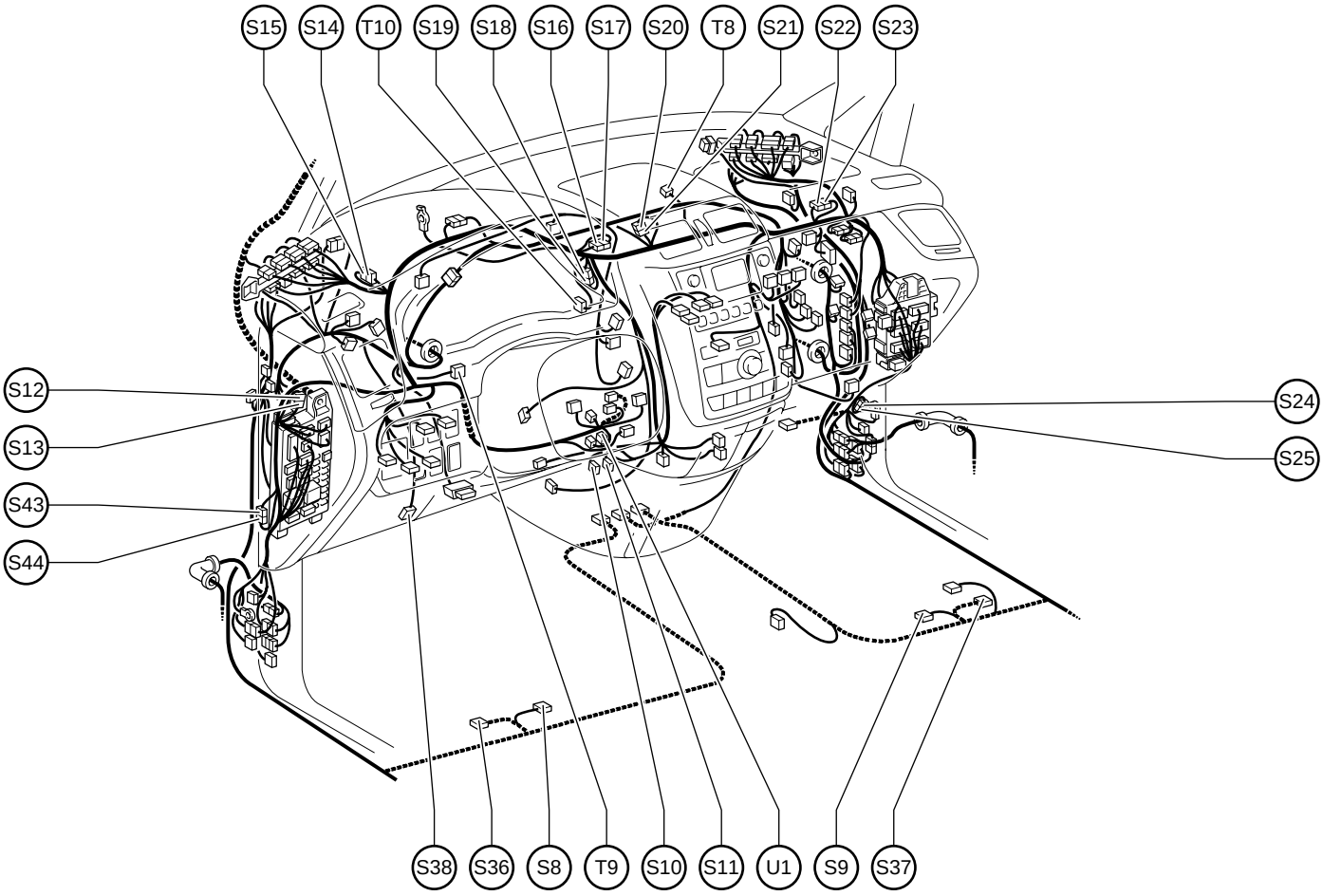
O 2 O/D Main SW

P 3 Parking Brake SW
P 4 Power Point Relay
P 5 PTC Heater
P 6 PTC Heater Amplifier

R 3 Radar Sensor
R 4 Radio and Player
R 5 Radio and Player
R 6 Radio and Player
R 7 Radio and Player
R 8 Rear Heater Blower Motor
R 9 Rear Heater Relay
R10 Rear Heater Relay (HI)
R11 Rear Heater SW
R12 Remote Control Mirror SW

Position of Parts in Instrument Panel

[LHD]



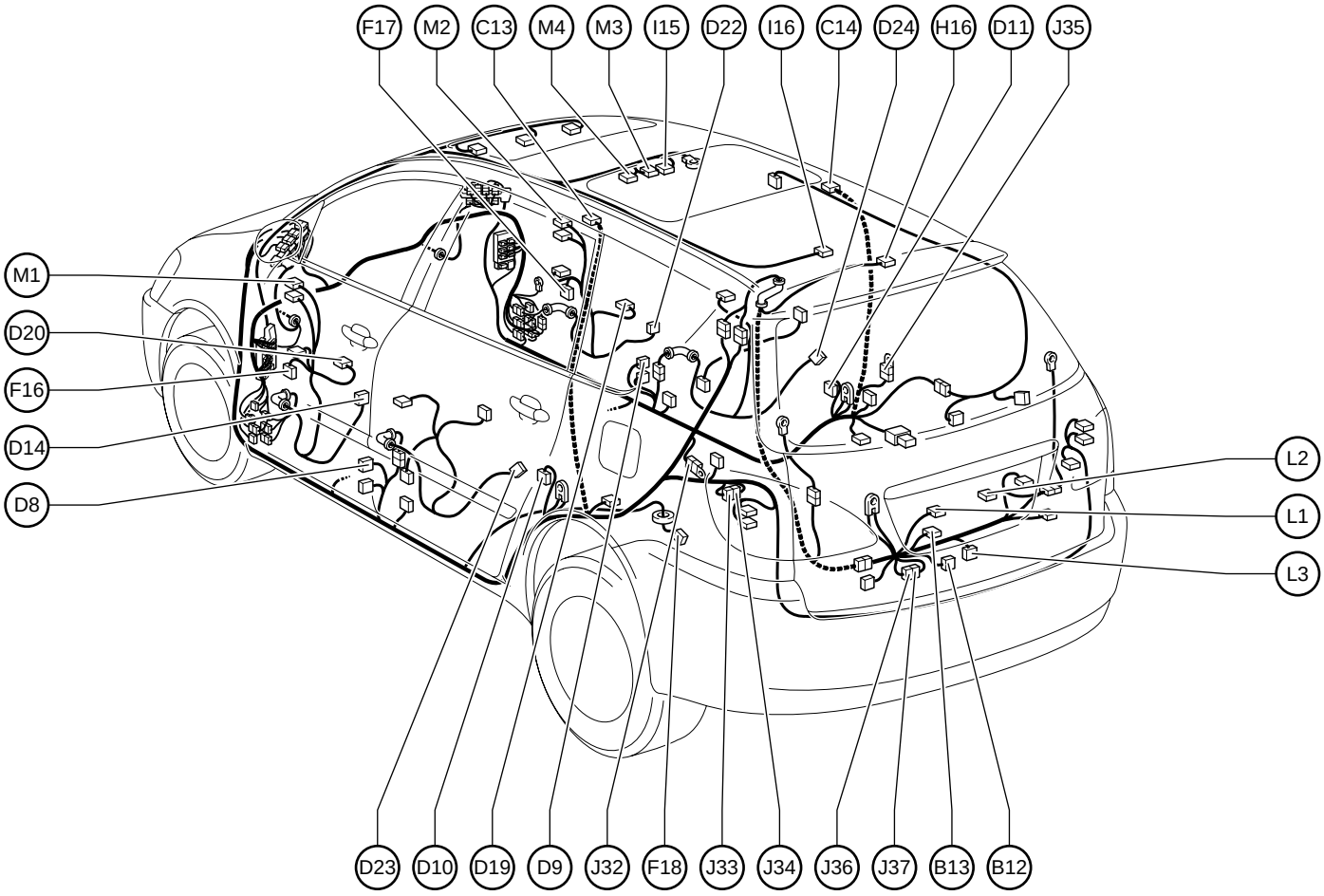
S 8 Seat Heater LH
S 9 Seat Heater RH
S10 Seat Heater SW LH
S11 Seat Heater SW RH
S12 Short Connector
S13 Short Connector
S14 Short Connector
S15 Short Connector
S16 Short Connector
S17 Short Connector
S18 Short Connector
S19 Short Connector
S20 Short Connector
S21 Short Connector
S22 Short Connector
S23 Short Connector
S24 Short Connector
S25 Short Connector
S36 Side Airbag Squib LH
S37 Side Airbag Squib RH
S38 Stop Light SW
S43 Short Connector
S44 Short Connector

T 8 Transponder Key Computer
T 9 Turn Signal Flasher Relay
T10 TVSS ECU

U 1 Unlock Warning SW

Position of Parts in Body

[LHD]



B12 Back Door Courtesy SW
Back Door Lock Motor
B13 Back Door Opener SW

C13 Curtain Shield Airbag Squib LH
C14 Curtain Shield Airbag Squib RH

D 8 Door Courtesy SW Front LH
D 9 Door Courtesy SW Front RH
D10 Door Courtesy SW Rear LH
D11 Door Courtesy SW Rear RH
D14 Door Key Lock and Unlock SW Front LH
Door Lock Motor Front LH
Door Unlock Detection SW Front LH
D19 Door Lock Control SW Front RH
Power Window SW Front RH
D20 Door Lock Control SW
Power Window Master SW
D22 Door Lock Motor Front RH
D23 Door Lock Motor Rear LH
D24 Door Lock Motor Rear RH

F16 Front Door Speaker LH
F17 Front Door Speaker RH
F18 Fuel Pump
Fuel Sender

H16 High Mounted Stop Light

I 15 Interior Light (Front)
I 16 Interior Light (Rear)

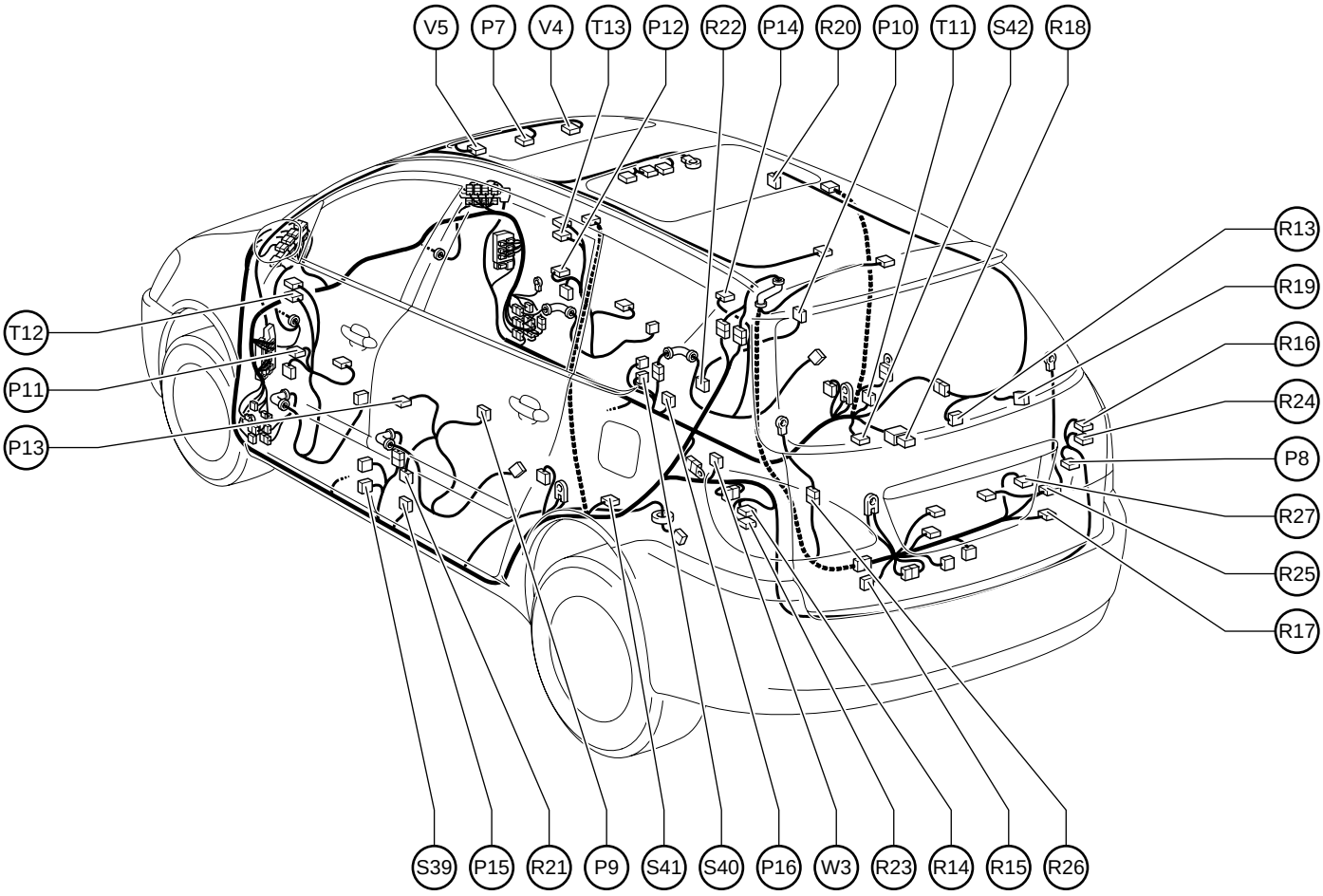
J 32 Junction Connector
J 33 Junction Connector
J 34 Junction Connector
J 35 Junction Connector
J 36 Junction Connector
J 37 Junction Connector

L 1 License Plate Light LH
L 2 License Plate Light RH
L 3 Luggage Compartment Light

M 1 Mirror Heater LH
Remote Control Mirror LH
M 2 Mirror Heater RH
Remote Control Mirror RH
M 3 Moon Roof Control Relay
Moon Roof Control SW
M 4 Moon Roof Limit SW
Moon Roof Motor

Position of Parts in Body

[LHD]



P 7 Personal Light
P 8 Power Outlet
P 9 Power Window Control SW Rear LH
P10 Power Window Control SW Rear RH
P11 Power Window Motor Front LH
P12 Power Window Motor Front RH
P13 Power Window Motor Rear LH
P14 Power Window Motor Rear RH
P15 Pretensioner LH
P16 Pretensioner RH

R13 Rear Blower Motor
R14 Rear Combination Light LH
R15 Rear Combination Light LH
R16 Rear Combination Light RH
R17 Rear Combination Light RH
R18 Rear Cooler Relay
R19 Rear Cooler Resistor
R20 Rear Cooler SW
R21 Rear Door Speaker LH
R22 Rear Door Speaker RH
R23 Rear Turn Signal Light LH
R24 Rear Turn Signal Light RH
R25 Rear Window Defogger (–)
R26 Rear Window Defogger (+)
R27 Rear Wiper Motor
Rear Wiper Relay

S39 Side Airbag Sensor LH
S40 Side Airbag Sensor RH
S41 Speed Sensor Rear LH
S42 Speed Sensor Rear RH

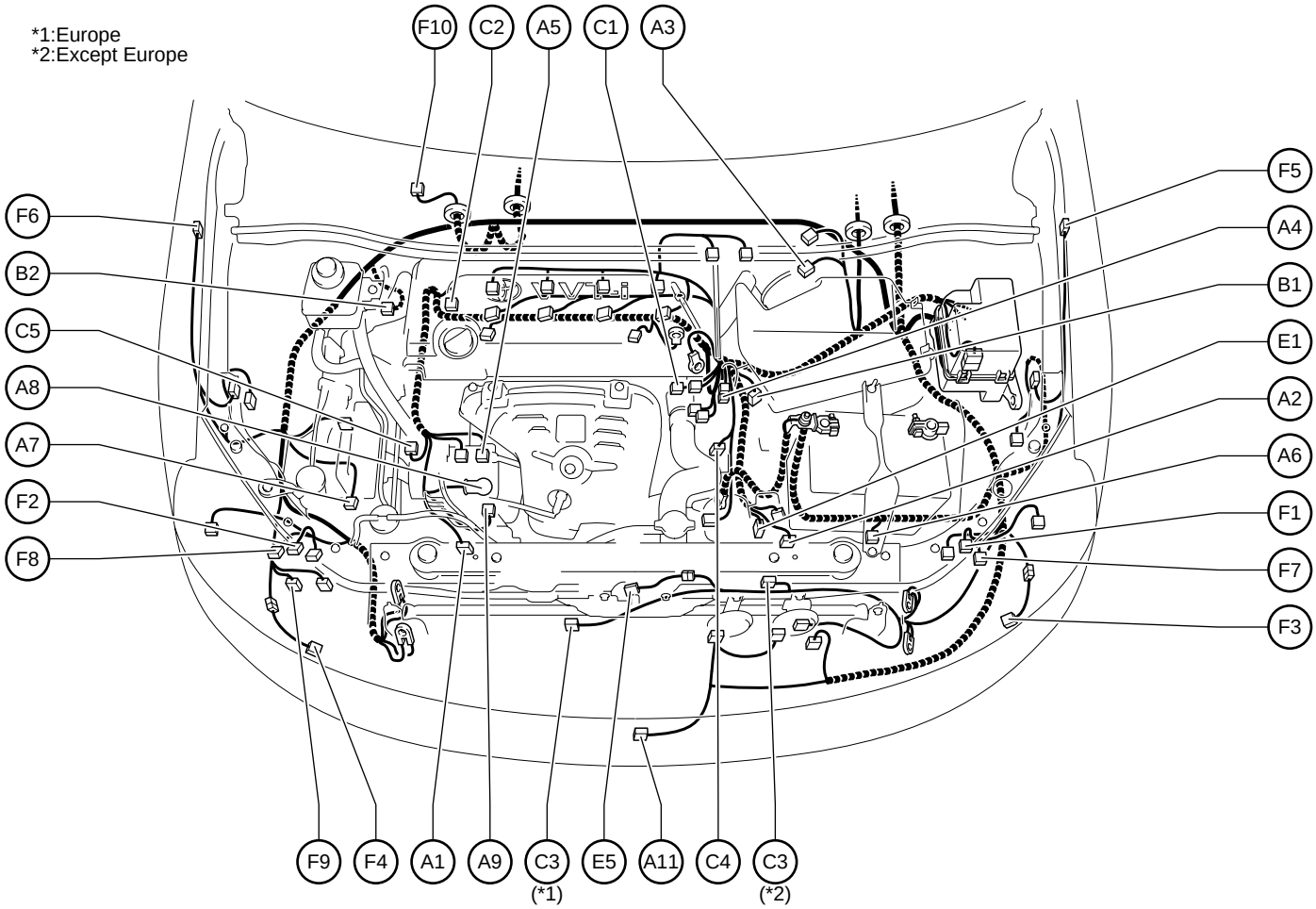
T 11 Theft Deterrent Siren
T 12 Tweeter LH
T 13 Tweeter RH

V 4 Vanity Light LH
V 5 Vanity Light RH

W 3 Wireless Door Lock Control Receiver

Position of Parts in Engine Compartment

[RHD : 1AZ–FE]



A 1 A/C Lock Sensor
A/C Magnetic Clutch
A 2 A/T Indicator Light SW
Back–Up Light SW
Neutral Start SW
A 3 Air Flow Meter
A 4 Air Fuel Ratio Sensor (Bank 1 Sensor 1)
A 5 Air Fuel Ratio Sensor (Bank 1 Sensor 2)
A 6 Airbag Sensor Front LH
A 7 Airbag Sensor Front RH
A 8 Alternator
A 9 Alternator
A 11 Ambient Temp. Sensor No.2

B 1 Back–Up Light SW
B 2 Brake Fluid Level Warning SW

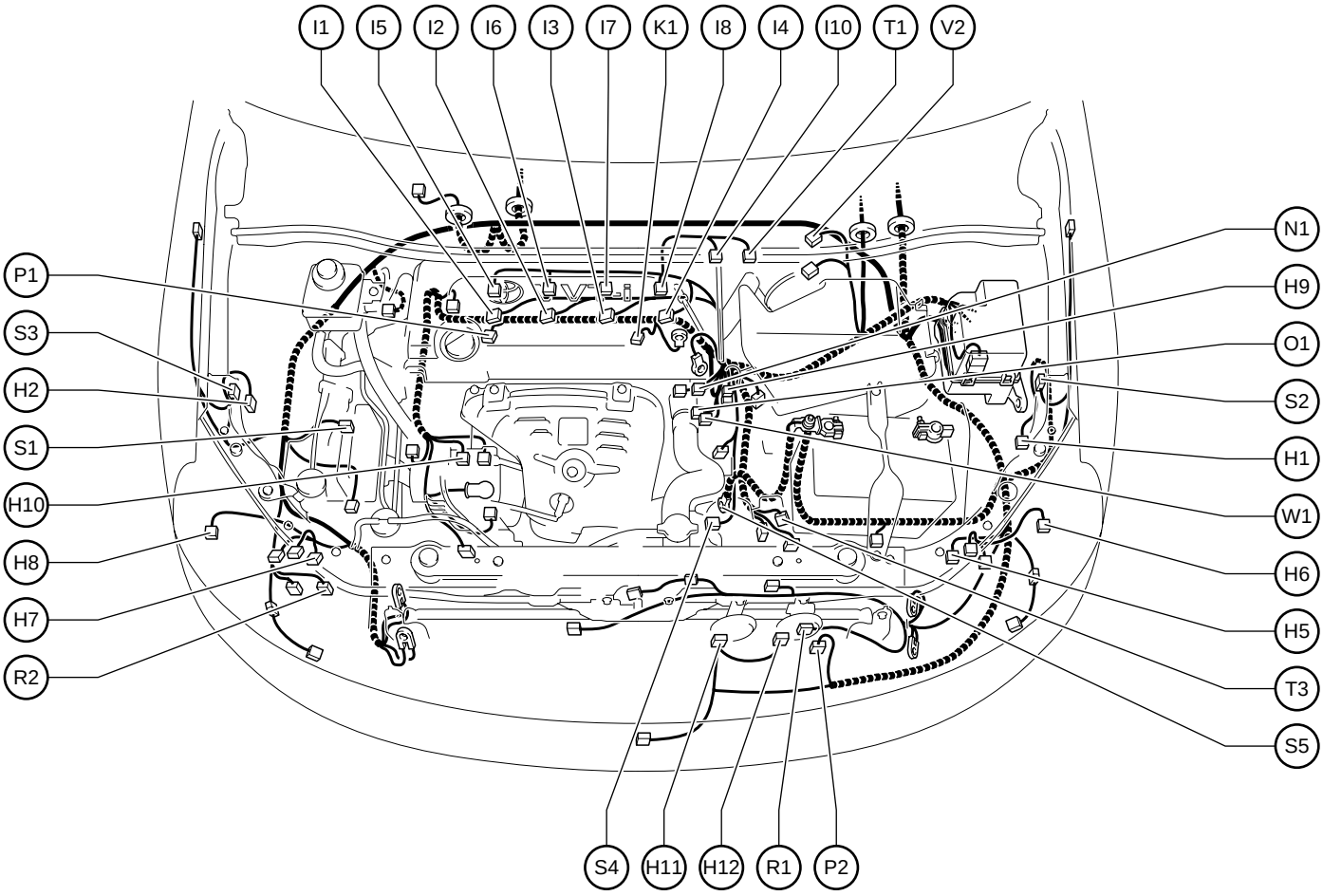
C 1 Camshaft Position Sensor
C 2 Camshaft Timing Oil Control Valve
C 3 Condenser Fan Motor
C 4 Counter Gear Speed Sensor
C 5 Crankshaft Position Sensor

E 1 ECT Solenoid
E 5 Engine Hood Courtesy SW

F 1 Front Clearance Light LH
F 2 Front Clearance Light RH
F 3 Front Fog Light LH
F 4 Front Fog Light RH
F 5 Front Side Turn Signal Light LH
F 6 Front Side Turn Signal Light RH
F 7 Front Turn Signal Light LH
F 8 Front Turn Signal Light RH
F 9 Front Washer Motor
F 10 Front Wiper Motor

Position of Parts in Engine Compartment

[RHD : 1AZ–FE]



H 1 Headlight Beam Level Control Actuator LH
H 2 Headlight Beam Level Control Actuator RH
H 5 Headlight LH (High)
H 6 Headlight LH (Low)
H 7 Headlight RH (High)
H 8 Headlight RH (Low)
H 9 Heated Oxygen Sensor (Bank 1 Sensor 2)
H10 Heated Oxygen Sensor (Bank 2 Sensor 2)
H11 Horn (High)
H12 Horn (Low)

I 1 Ignition Coil and Igniter No.1
I 2 Ignition Coil and Igniter No.2
I 3 Ignition Coil and Igniter No.3
I 4 Ignition Coil and Igniter No.4
I 5 Injector No.1
I 6 Injector No.2
I 7 Injector No.3
I 8 Injector No.4
I 10 ISC Valve

K 1 Knock Sensor

N 1 Noise Filter

O 1 Oil Pressure SW

P 1 Power Steering Oil Pressure SW
P 2 Pressure SW

R 1 Radiator Fan Motor
R 2 Rear Washer Motor

S 1 Skid Control ECU with Actuator
S 2 Speed Sensor Front LH
S 3 Speed Sensor Front RH
S 4 Starter
S 5 Starter

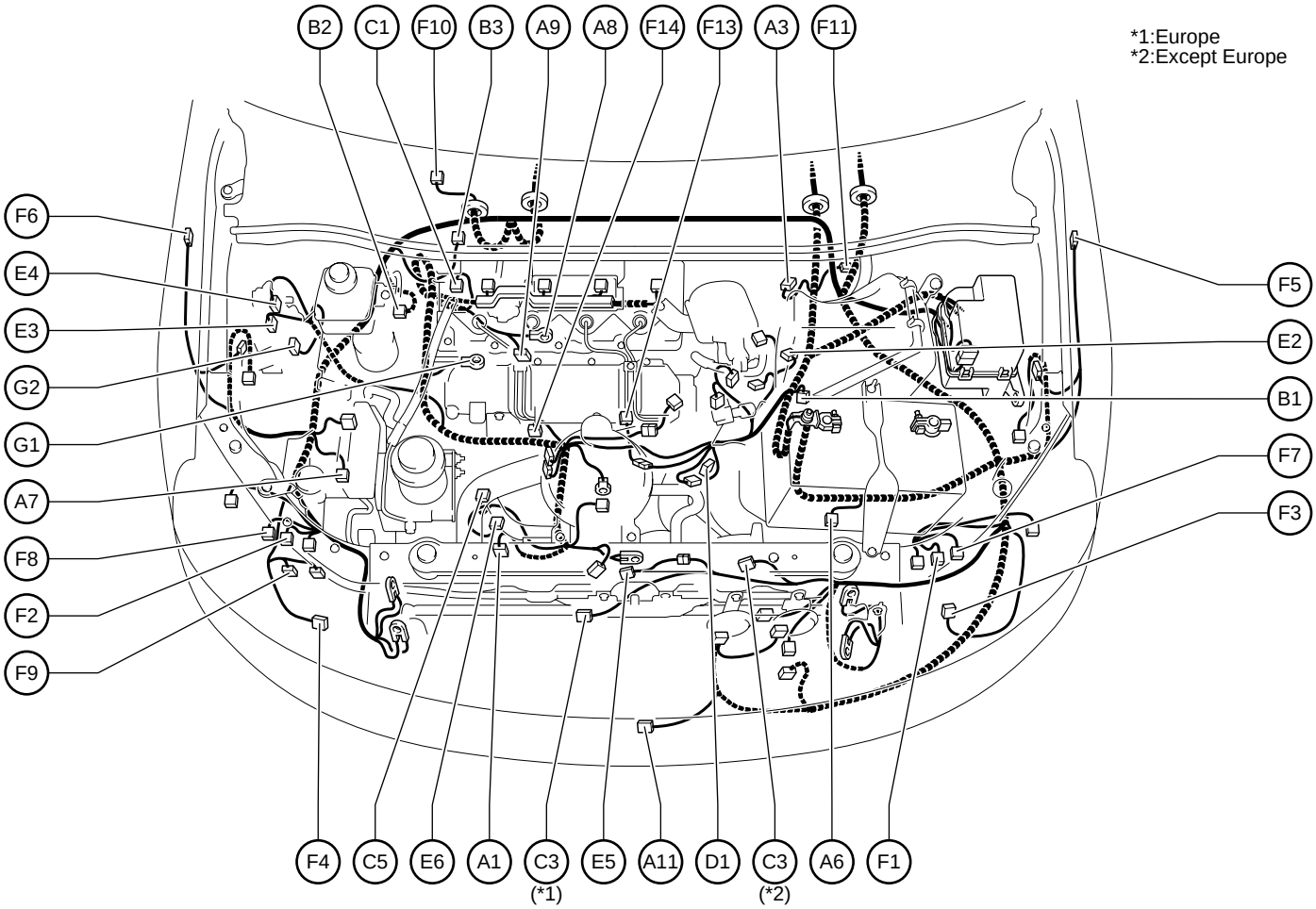
T 1 Throttle Position Sensor
T 3 Turbine Speed Sensor

V 2 VSV (EVAP)

W 1 Water Temp. Sensor

Position of Parts in Engine Compartment

[RHD : 1CD–FTV]



A 1 A/C Lock Sensor
A/C Magnetic Clutch
A 3 Air Flow Meter
A 6 Airbag Sensor Front LH
A 7 Airbag Sensor Front RH
A 8 Alternator
A 9 Alternator
A 11 Ambient Temp. Sensor No.2

B 1 Back–Up Light SW
B 2 Brake Fluid Level Warning SW
B 3 Brake Vacuum Warning SW

C 1 Camshaft Position Sensor
C 3 Condenser Fan Motor
C 5 Crankshaft Position Sensor

D 1 Diesel Throttle Control Motor

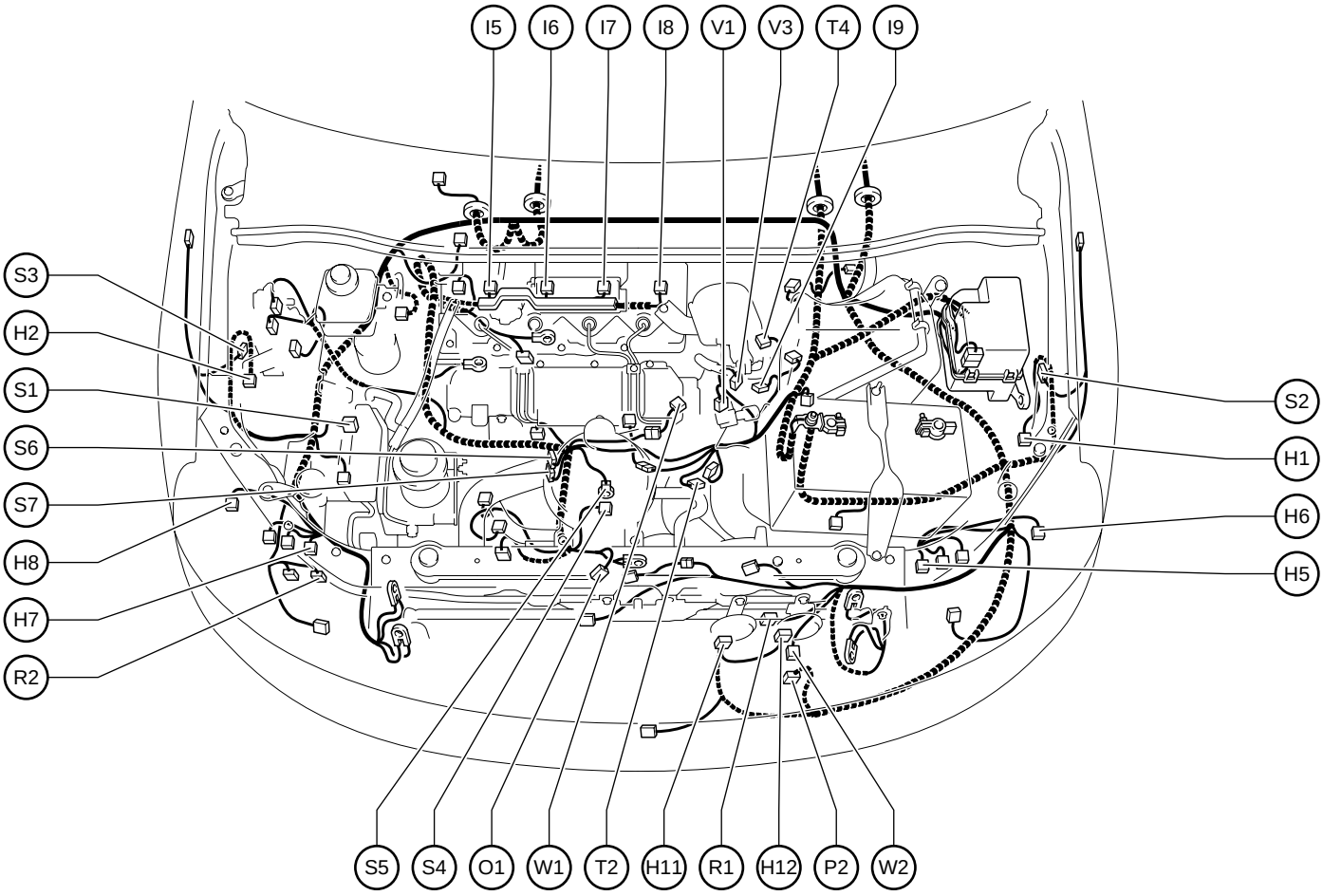
E 2 EGR Valve Control Motor
E 3 Electronic Driver Unit
E 4 Electronic Driver Unit
E 5 Engine Hood Courtesy SW
E 6 Engine Oil Level Sensor

F 1 Front Clearance Light LH
F 2 Front Clearance Light RH
F 3 Front Fog Light LH
F 4 Front Fog Light RH
F 5 Front Side Turn Signal Light LH
F 6 Front Side Turn Signal Light RH
F 7 Front Turn Signal Light LH
F 8 Front Turn Signal Light RH
F 9 Front Washer Motor
F 10 Front Wiper Motor
F 11 Fuel Filter Warning SW
F 13 Fuel Pressure Sensor
F 14 Fuel Temp. Sensor

G 1 Glow Plug
G 2 Glow Plug Relay

Position of Parts in Engine Compartment

[RHD : 1CD–FTV]



H 1 Headlight Beam Level Control Actuator LH
H 2 Headlight Beam Level Control Actuator RH
H 5 Headlight LH (High)
H 6 Headlight LH (Low)
H 7 Headlight RH (High)
H 8 Headlight RH (Low)
H11 Horn (High)
H12 Horn (Low)

I 5 Injector No.1
I 6 Injector No.2
I 7 Injector No.3
I 8 Injector No.4
I 9 Intake Air Temp. Sensor

O 1 Oil Pressure SW

P 2 Pressure SW

R 1 Radiator Fan Motor
R 2 Rear Washer Motor

S 1 Skid Control ECU with Actuator
S 2 Speed Sensor Front LH
S 3 Speed Sensor Front RH
S 4 Starter
S 5 Starter
S 6 Suction Control Valve No.1
S 7 Suction Control Valve No.2

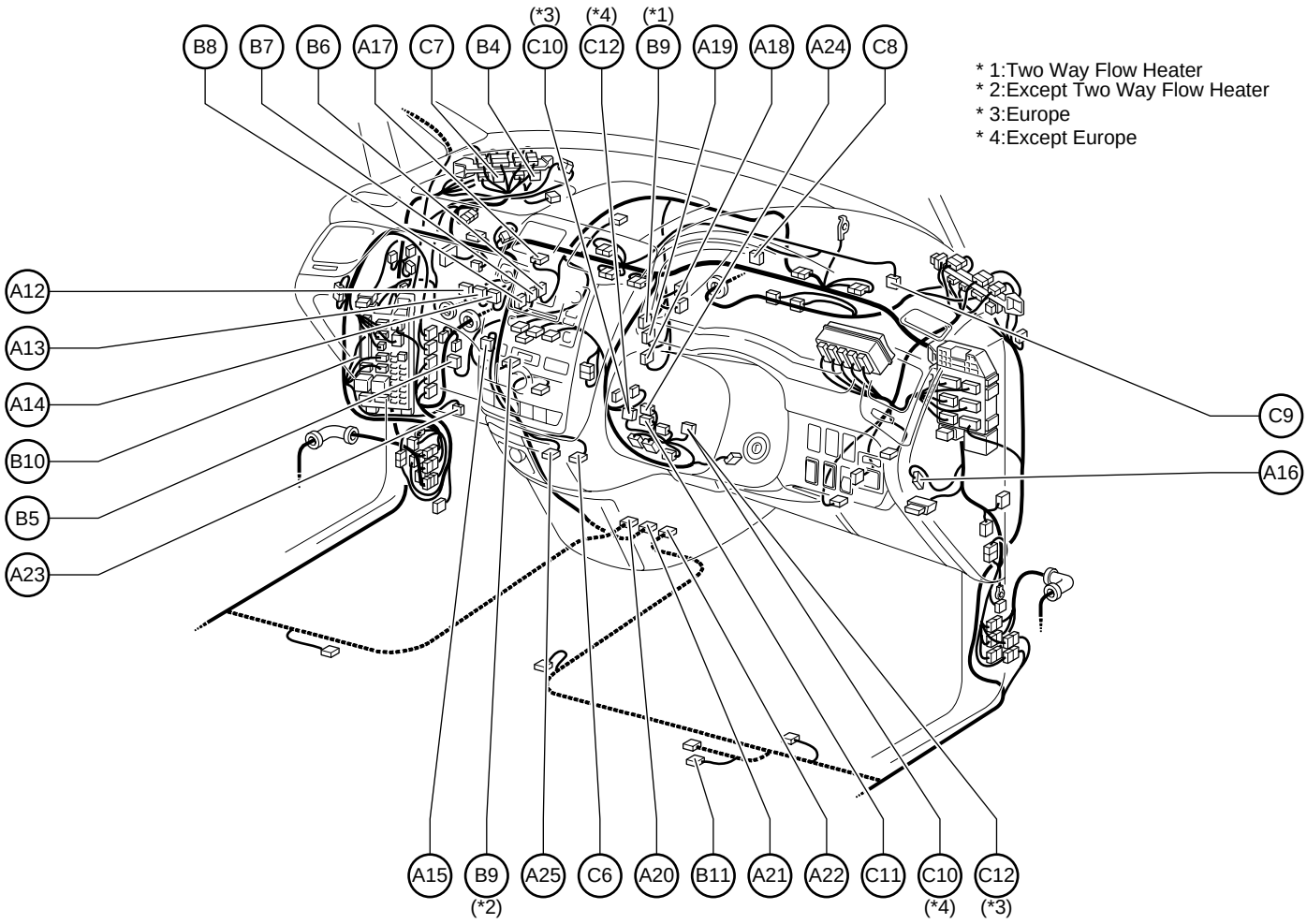
T 2 Throttle Position SW
T 4 Turbo Pressure Sensor

V 1 VRV (EGR)
V 3 VSV (Turbo Pressure Sensor)

W 1 Water Temp. Sensor
W 2 Water Temp. SW

Position of Parts in Instrument Panel

[RHD]



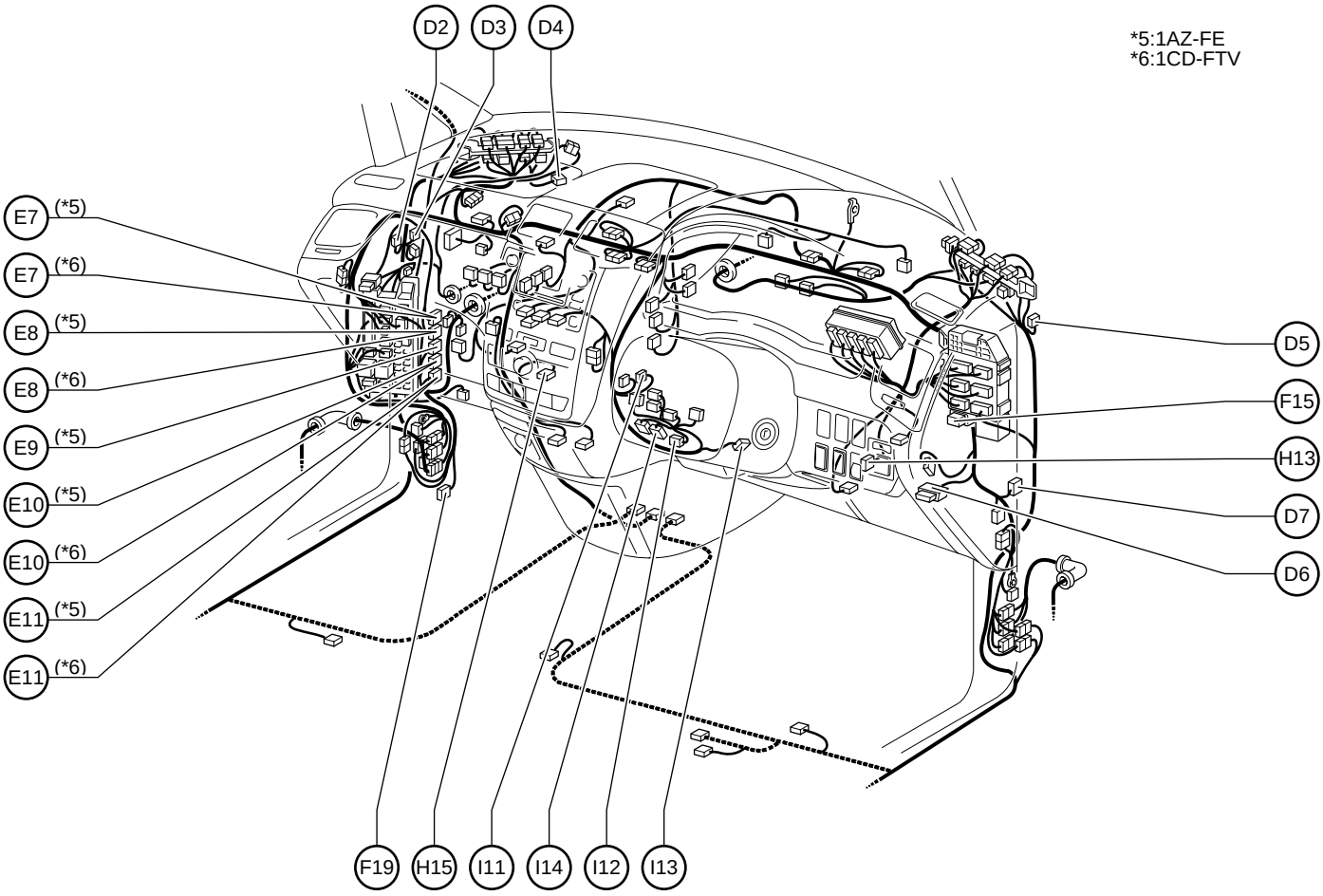
A 12 A/C Amplifier
A 13 A/C Amplifier
A 14 A/C Amplifier
A 15 A/C Evaporator Temp. Sensor
A 16 Accelerator Pedal Position Sensor
A 17 Air Inlet Control Servo Motor
A 18 Air Mix Control Servo Motor
A 19 Air Vent Mode Control Servo Motor
A 20 Airbag Sensor Assembly
A 21 Airbag Sensor Assembly
A 22 Airbag Sensor Assembly
A 23 Airbag Squib (Front Passenger Airbag Assembly)
A 24 Airbag Squib (Steering Wheel Pad)
A 25 Ashtray Illumination

B 4 Back–Up Light Relay
B 5 Blower Motor
B 6 Blower Relay (HI)
B 7 Blower Relay (M1)
B 8 Blower Relay (M2)
B 9 Blower Resistor
B 10 Body ECU
B 11 Buckle SW RH

C 6 Cigarette Lighter
C 7 Circuit Opening Relay
C 8 Combination Meter
C 9 Combination Meter
C 10 Combination SW
C 11 Combination SW
C 12 Combination SW

Position of Parts in Instrument Panel

[RHD]



D 2 Diode
D 3 Diode
D 4 Diode (Fan)
D 5 Diode
D 6 DLC3
D 7 Double Door Lock ECU

E 7 Engine and ECT ECU (A/T)
Engine ECU (M/T)
E 8 Engine and ECT ECU (A/T)
Engine ECU (M/T)
E 9 Engine and ECT ECU (A/T)
Engine ECU (M/T)
E 10 Engine and ECT ECU (A/T)
Engine ECU (M/T)
E 11 Engine and ECT ECU (A/T)
Engine ECU (M/T)

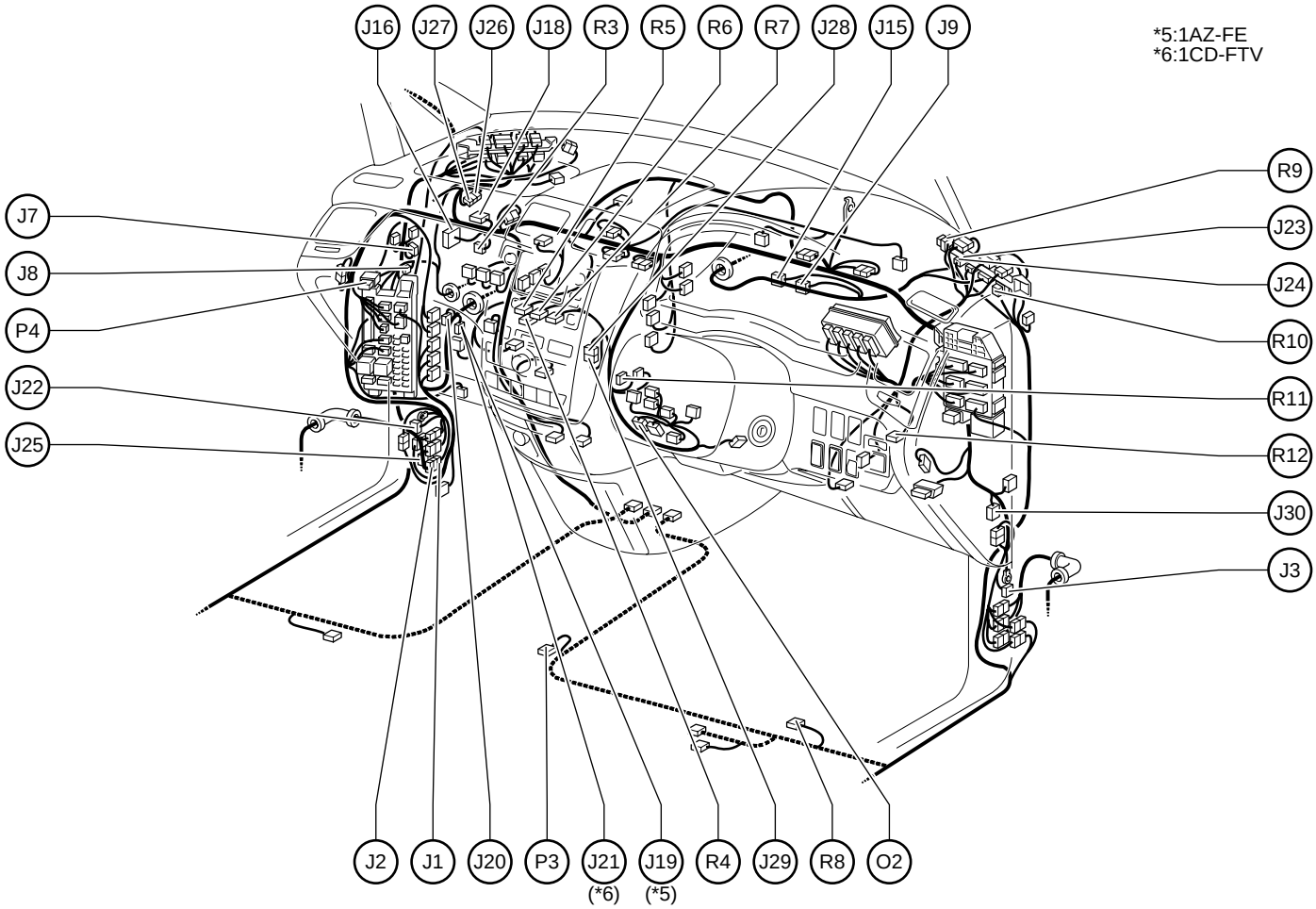
F 15 Front Fog Light Relay
F 19 Fuse Holder

H13 Headlight Beam Level Control SW
H15 Heater Control Panel

I 11 Idle–Up SW
I 12 Ignition Key Cylinder Light
I 13 Ignition Key Cylinder Light
Transponder Key Amplifier
I 14 Ignition SW

Position of Parts in Instrument Panel

[RHD]



J 1 Junction Connector
J 2 Junction Connector
J 3 Junction Connector
J 7 Junction Connector
J 8 Junction Connector
J 9 Junction Connector
J 15 Junction Connector
J 16 Junction Connector
J 18 Junction Connector
J 19 Junction Connector
J 20 Junction Connector
J 21 Junction Connector
J 22 Junction Connector
J 23 Junction Connector
J 24 Junction Connector
J 25 Junction Connector
J 26 Junction Connector
J 27 Junction Connector
J 28 Junction Connector
J 29 Junction Connector
J 30 Junction Connector

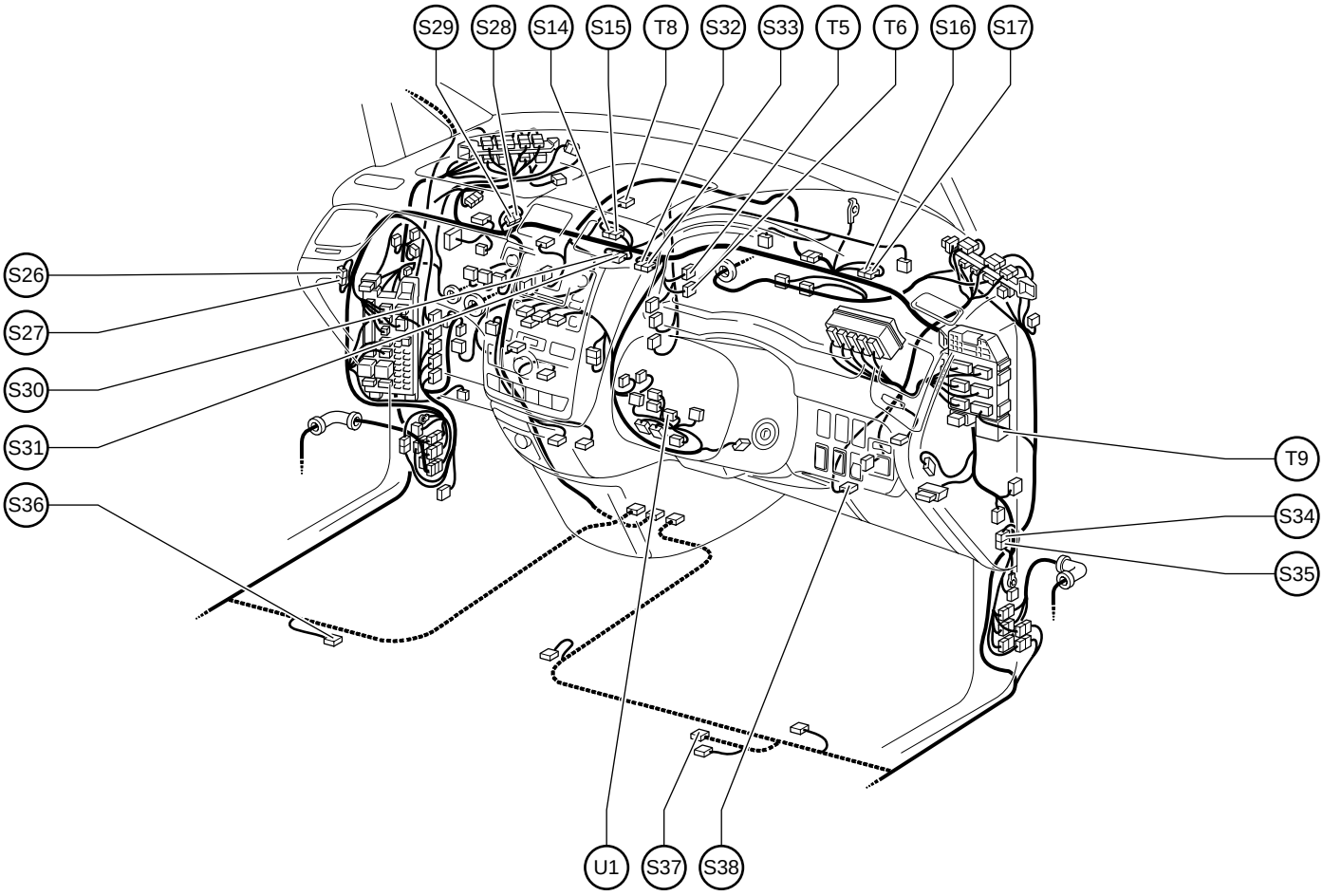
O 2 O/D Main SW

P 3 Parking Brake SW
P 4 Power Point Relay

R 3 Radar Sensor
R 4 Radio and Player
R 5 Radio and Player
R 6 Radio and Player
R 7 Radio and Player
R 8 Rear Heater Blower Motor
R 9 Rear Heater Relay
R10 Rear Heater Relay (HI)
R11 Rear Heater SW
R12 Remote Control Mirror SW

Position of Parts in Instrument Panel

[RHD]



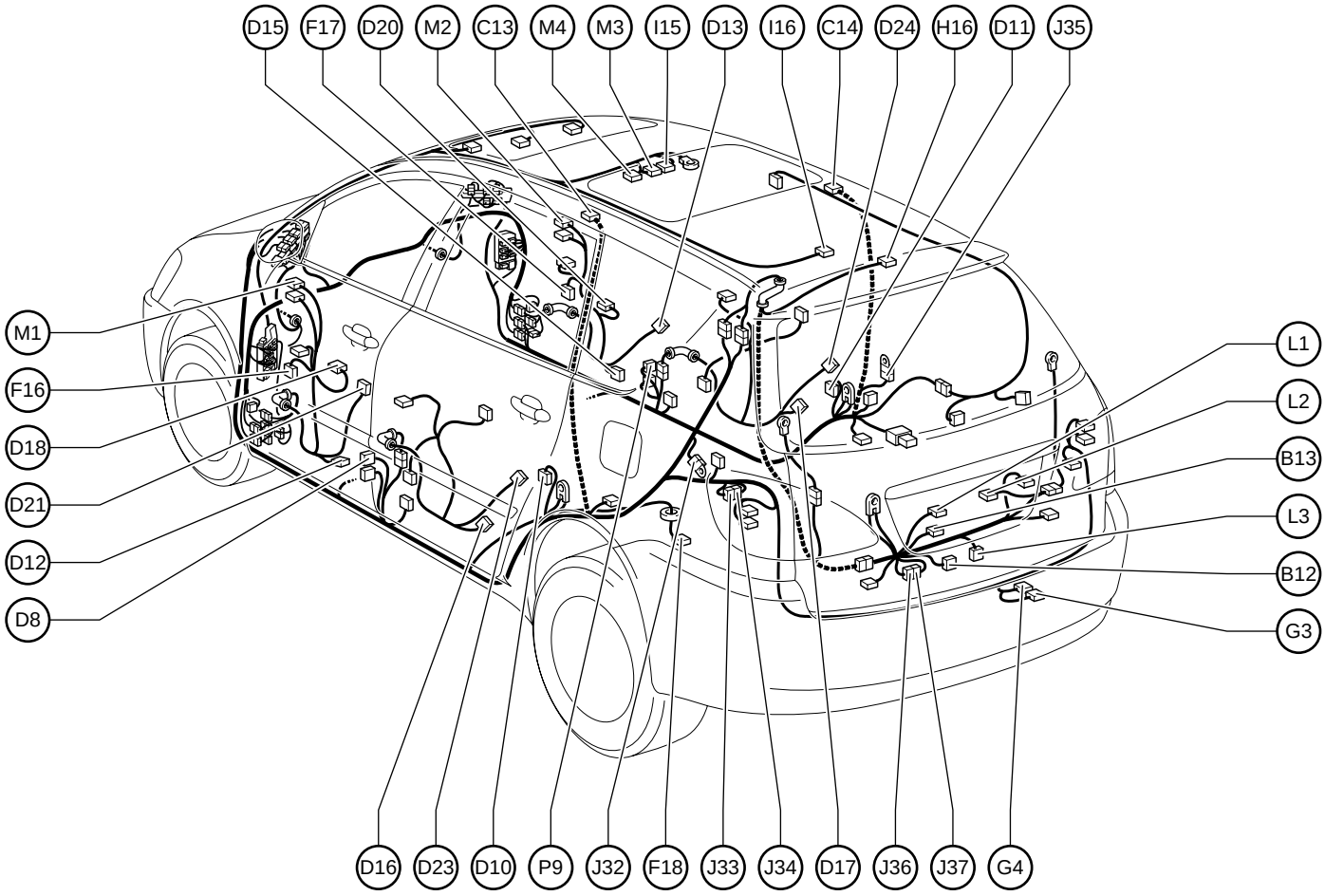
S14 Short Connector
S15 Short Connector
S16 Short Connector
S17 Short Connector
S26 Short Connector
S27 Short Connector
S28 Short Connector
S29 Short Connector
S30 Short Connector
S31 Short Connector
S32 Short Connector
S33 Short Connector
S34 Short Connector
S35 Short Connector
S36 Side Airbag Squib LH
S37 Side Airbag Squib RH
S38 Stop Light SW

T 5 Theft Deterrent ECU
T 6 Theft Deterrent ECU
T 8 Transponder Key Computer
T 9 Turn Signal Flasher Relay

U 1 Unlock Warning SW

Position of Parts in Body

[RHD]



B 12 Back Door Courtesy SW
Back Door Lock Motor
B 13 Back Door Opener SW

C 13 Curtain Shield Airbag Squib LH
C 14 Curtain Shield Airbag Squib RH

D 8 Door Courtesy SW Front LH
D 9 Door Courtesy SW Front RH
D 10 Door Courtesy SW Rear LH
D 11 Door Courtesy SW Rear RH
D 12 Door Key Lock and Unlock SW Front LH
Door Lock Motor Front LH
Door Unlock Detection SW Front LH
Double Door Lock Motor Front LH
Double Lock Position SW Front LH
D 13 Door Key Lock and Unlock SW Front RH
Door Lock Motor Front RH
Door Unlock Detection SW Front RH
D 15 Door Key Lock and Unlock SW Front RH
Door Lock Motor Front RH
Door Unlock Detection SW Front RH
Double Door Lock Motor Front RH
Double Lock Position SW Front RH
D 16 Door Key Lock and Unlock SW Rear LH
Door Lock Motor Rear LH
Door Unlock Detection SW Rear LH
Double Door Lock Motor Rear LH
Double Lock Position SW Rear LH
D 17 Door Key Lock and Unlock SW Rear RH
Door Lock Motor Rear RH
Door Unlock Detection SW Rear RH
Double Door Lock Motor Rear RH
Double Lock Position SW Rear RH
D 18 Door Lock Control SW Front LH
Power Window SW Front LH
D 20 Door Lock Control SW
Power Window Master SW
D 21 Door Lock Motor Front LH
D 23 Door Lock Motor Rear LH
D 24 Door Lock Motor Rear RH

F 16 Front Door Speaker LH
F 17 Front Door Speaker RH
F 18 Fuel Pump
Fuel Sender

G 3 Glass Breakage Sensor
G 4 Glass Breakage Sensor Microphone

H 16 High Mounted Stop Light

I 15 Interior Light (Front)
I 16 Interior Light (Rear)

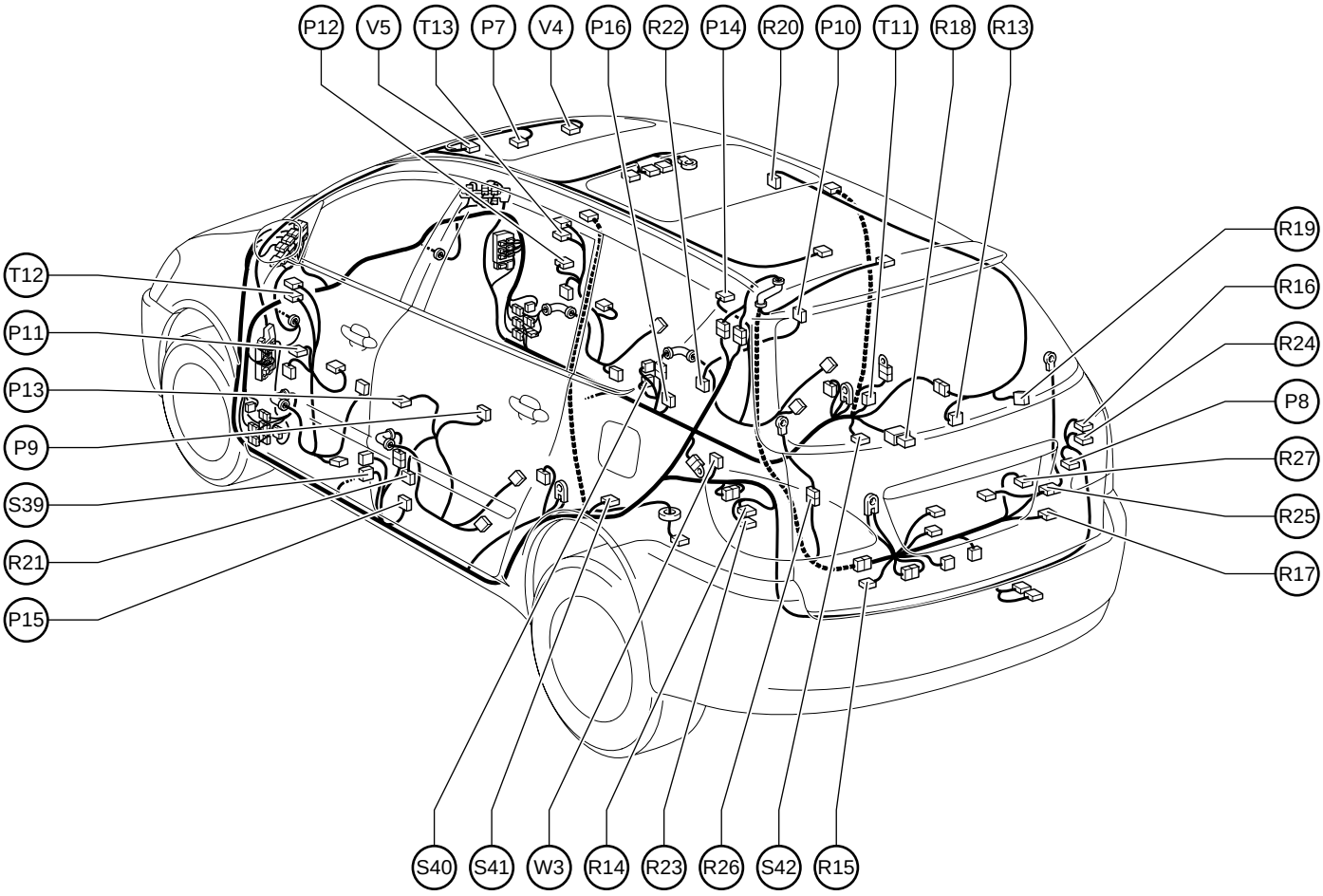
J 32 Junction Connector
J 33 Junction Connector
J 34 Junction Connector
J 35 Junction Connector
J 36 Junction Connector
J 37 Junction Connector

L 1 License Plate Light LH
L 2 License Plate Light RH
L 3 Luggage Compartment Light

M 1 Mirror Heater LH
Remote Control Mirror LH
M 2 Mirror Heater RH
Remote Control Mirror RH
M 3 Moon Roof Control Relay
Moon Roof Control SW
M 4 Moon Roof Limit SW
Moon Roof Motor

Position of Parts in Body

[RHD]



P 7 Personal Light
P 8 Power Outlet
P 9 Power Window Control SW Rear LH
P 10 Power Window Control SW Rear RH
P 11 Power Window Motor Front LH
P 12 Power Window Motor Front RH
P 13 Power Window Motor Rear LH
P 14 Power Window Motor Rear RH
P 15 Pretensioner LH
P 16 Pretensioner RH

R 13 Rear Blower Motor
R 14 Rear Combination Light LH
R 15 Rear Combination Light LH
R 16 Rear Combination Light RH
R 17 Rear Combination Light RH
R 18 Rear Cooler Relay
R 19 Rear Cooler Resistor
R 20 Rear Cooler SW
R 21 Rear Door Speaker LH
R 22 Rear Door Speaker RH
R 23 Rear Turn Signal Light LH
R 24 Rear Turn Signal Light RH
R 25 Rear Window Defogger (–)
R 26 Rear Window Defogger (+)
R 27 Rear Wiper Motor
Rear Wiper Relay

S 39 Side Airbag Sensor LH
S 40 Side Airbag Sensor RH
S 41 Speed Sensor Rear LH
S 42 Speed Sensor Rear RH

T 11 Theft Deterrent Siren
T 12 Tweeter LH
T 13 Tweeter RH

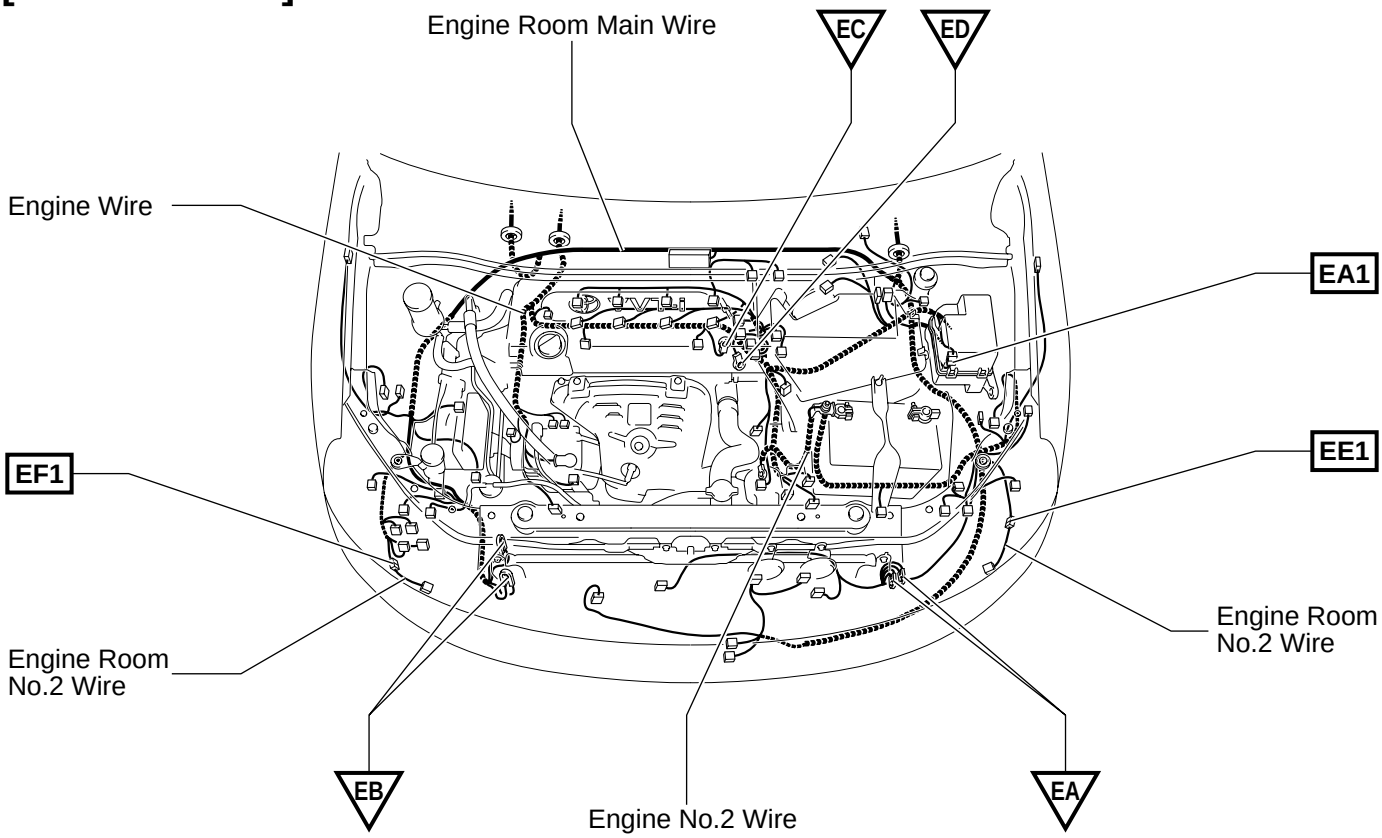
V 4 Vanity Light LH
V 5 Vanity Light RH

W 3 Wireless Door Lock Control Receiver

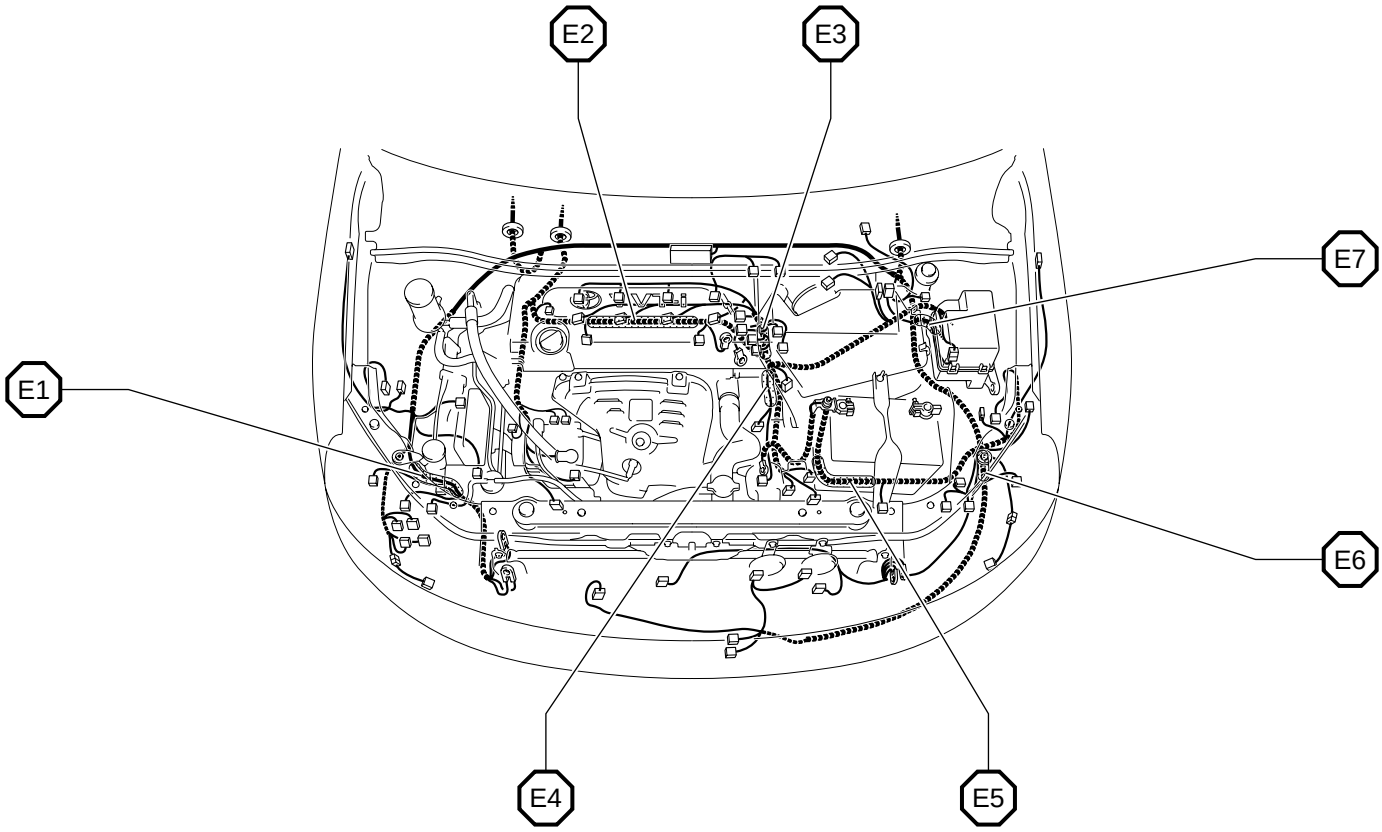
▭ : Location of Connector Joining Wire Harness and Wire Harness

▽ : Location of Ground Points

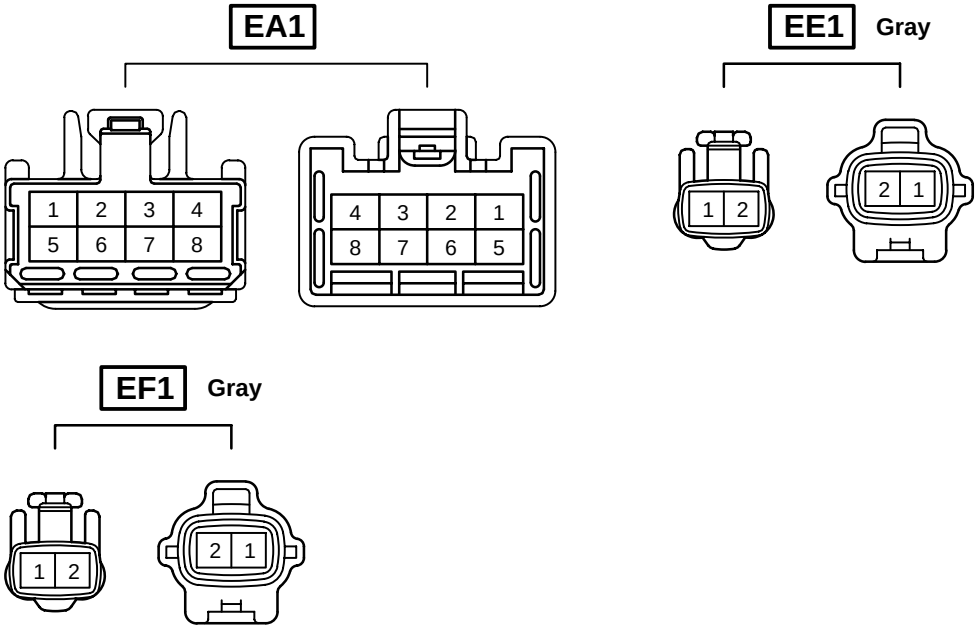
[LHD : 1AZ–FE]



○ : Location of Splice Points



Connector Joining Wire Harness and Wire Harness

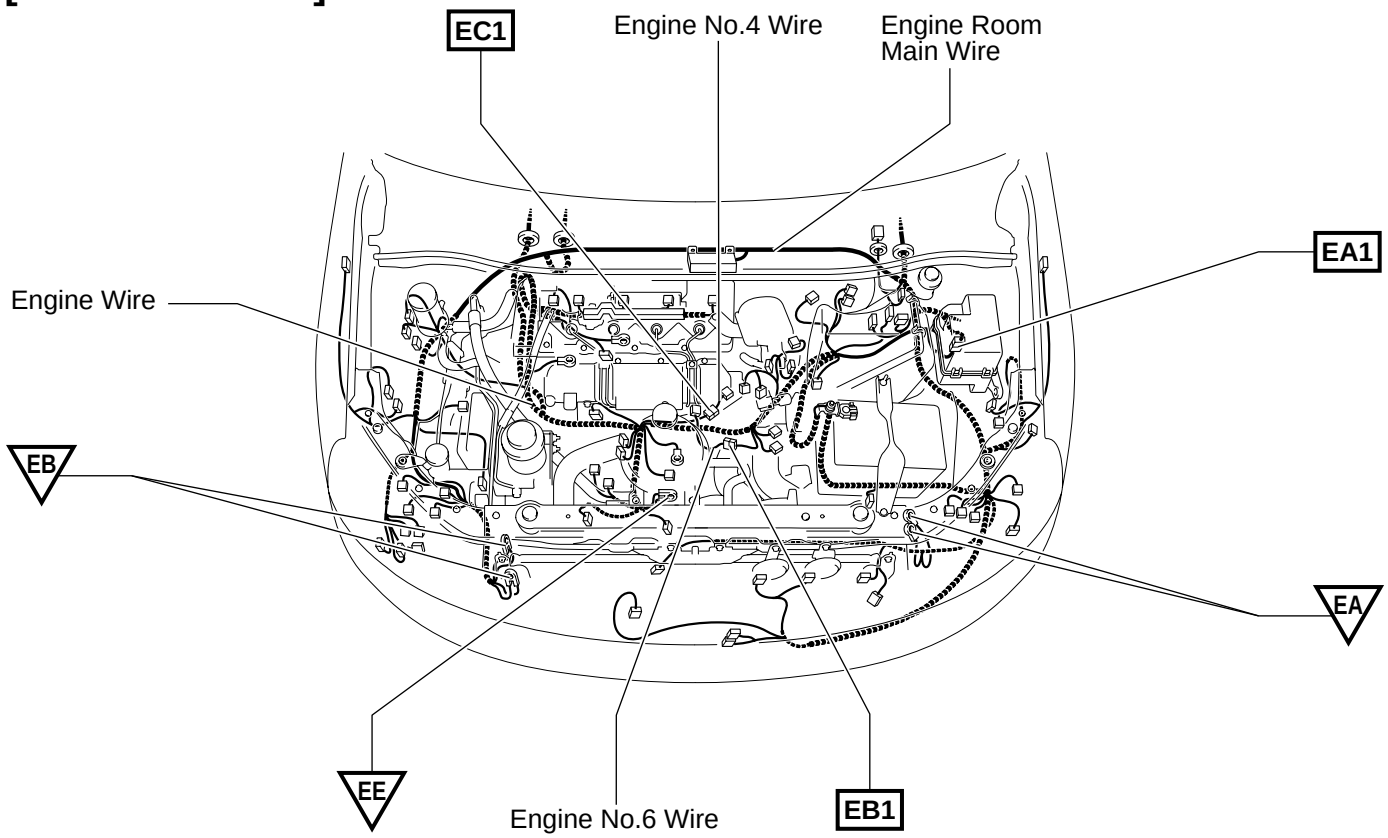


Code	Joining Wire Harness and Wire Harness (Connector Location)
EA1	Engine Wire and Engine Room Main Wire (Near the Engine Room R/B)
EE1	Engine Room No.2 Wire and Engine Room Main Wire (Under the Headlight LH)
EF1	Engine Room No.2 Wire and Engine Room Main Wire (Under the Headlight RH)

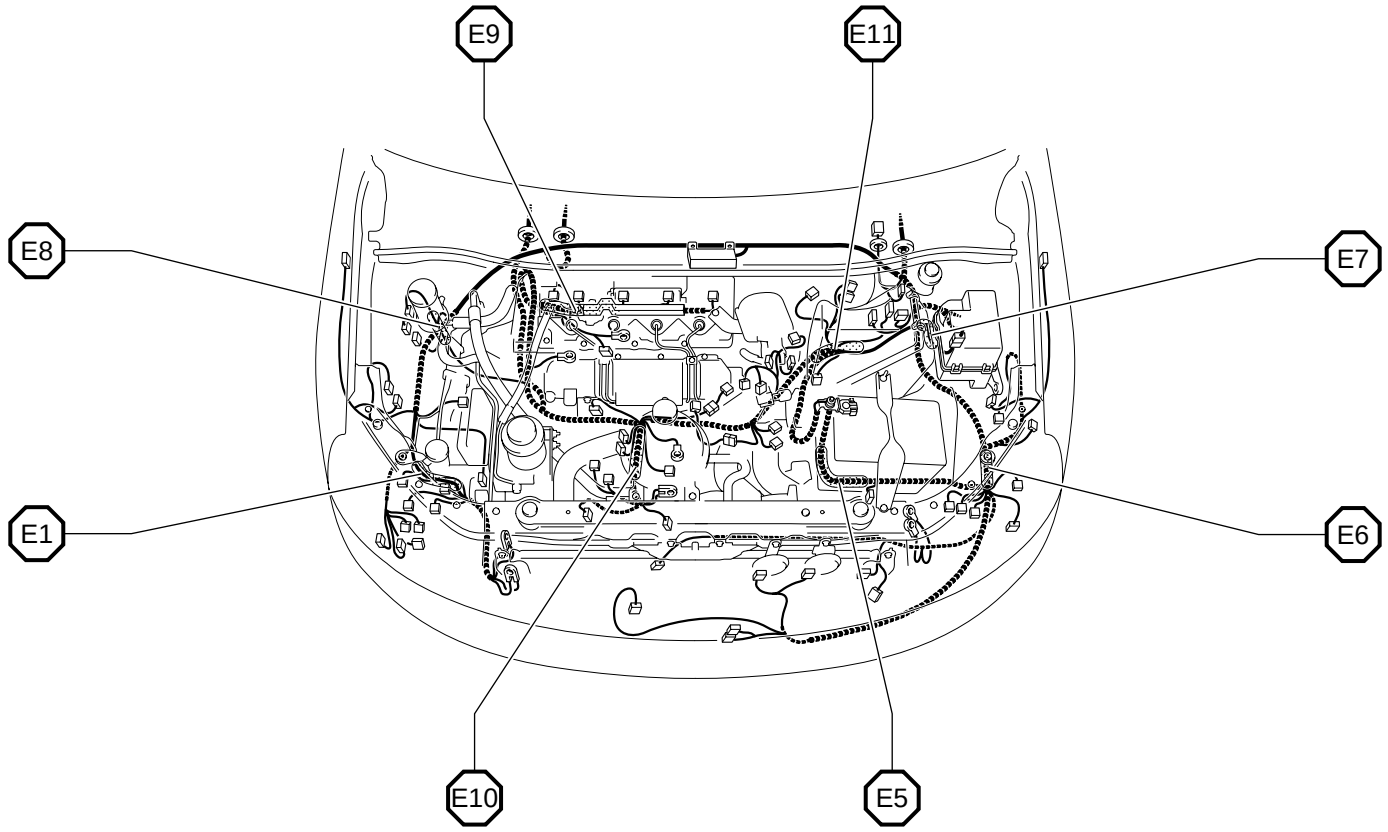
▭ : Location of Connector Joining Wire Harness and Wire Harness

▽ : Location of Ground Points

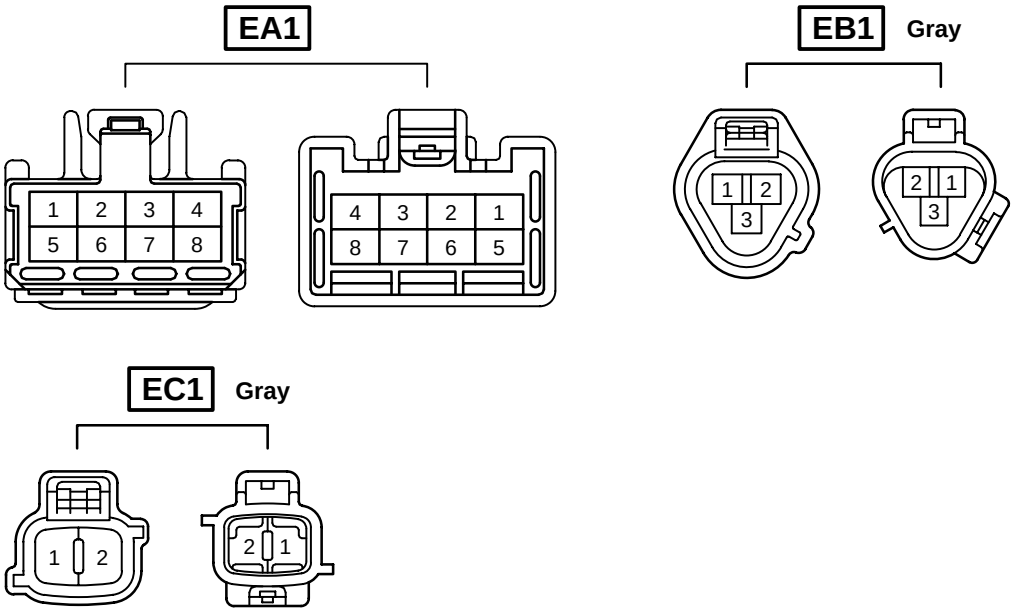
[LHD : 1CD–FTV]



○ : Location of Splice Points



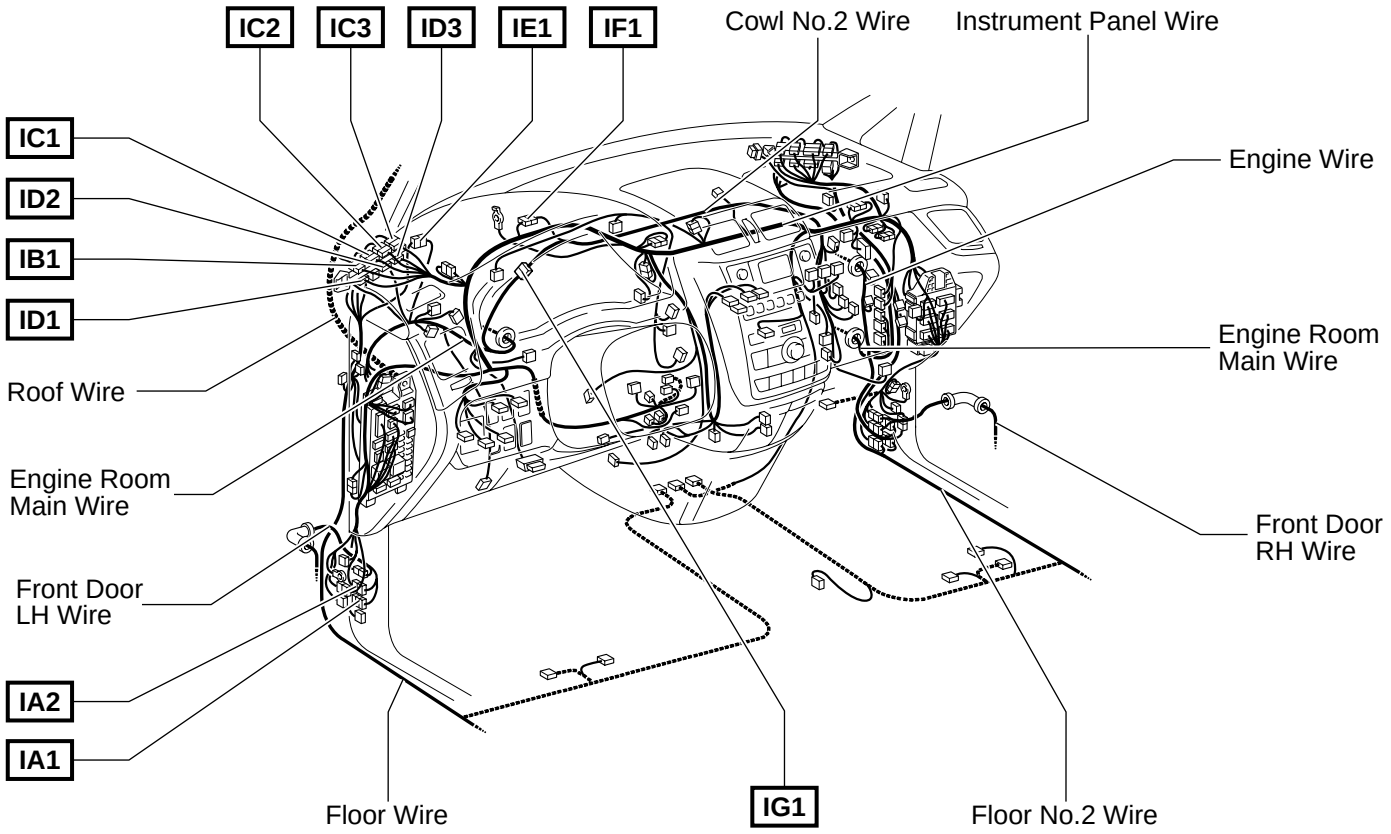
Connector Joining Wire Harness and Wire Harness



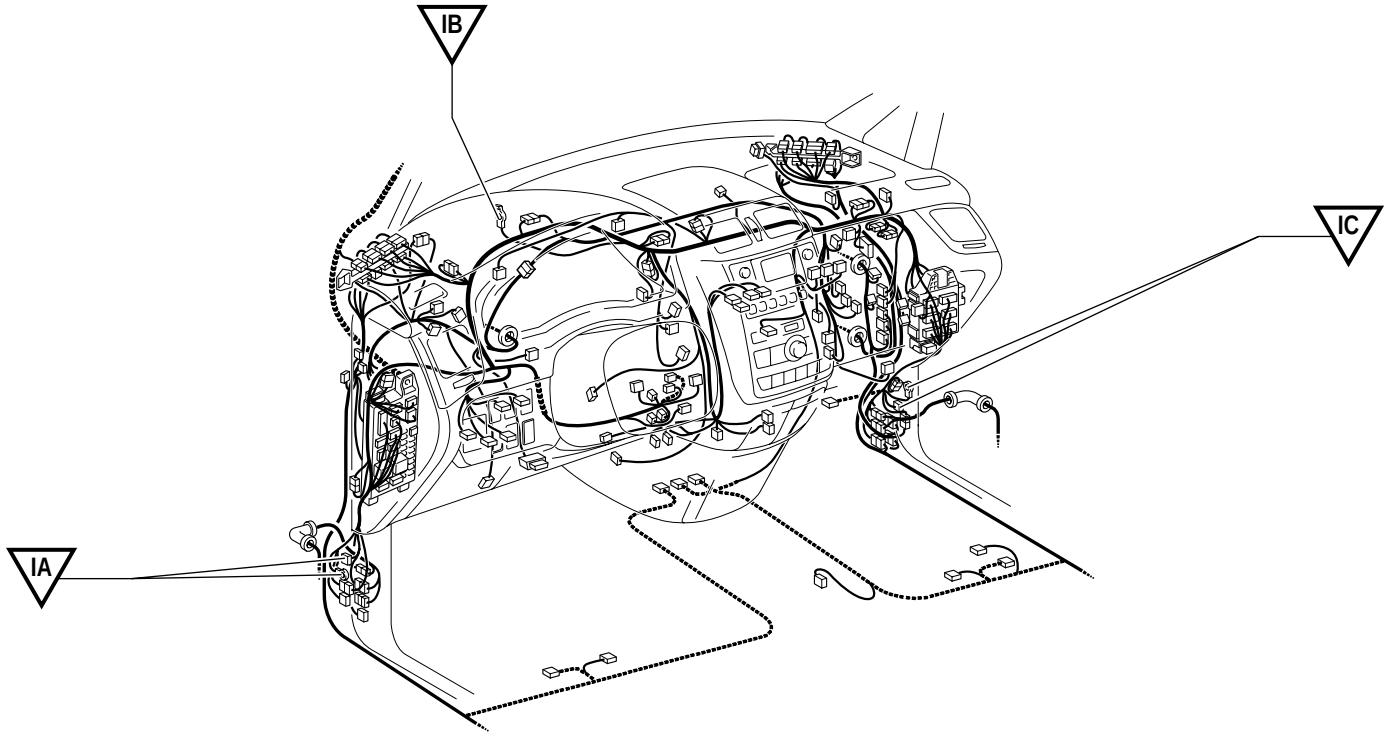
Code	Joining Wire Harness and Wire Harness (Connector Location)
EA1	Engine Wire and Engine Room Main Wire (Near the Engine Room R/B)
EB1	Engine Wire and Engine No.6 Wire (Near the Starter Motor)
EC1	Engine Wire and Engine No.4 Wire (Near the Starter Motor)

▭ : Location of Connector Joining Wire Harness and Wire Harness

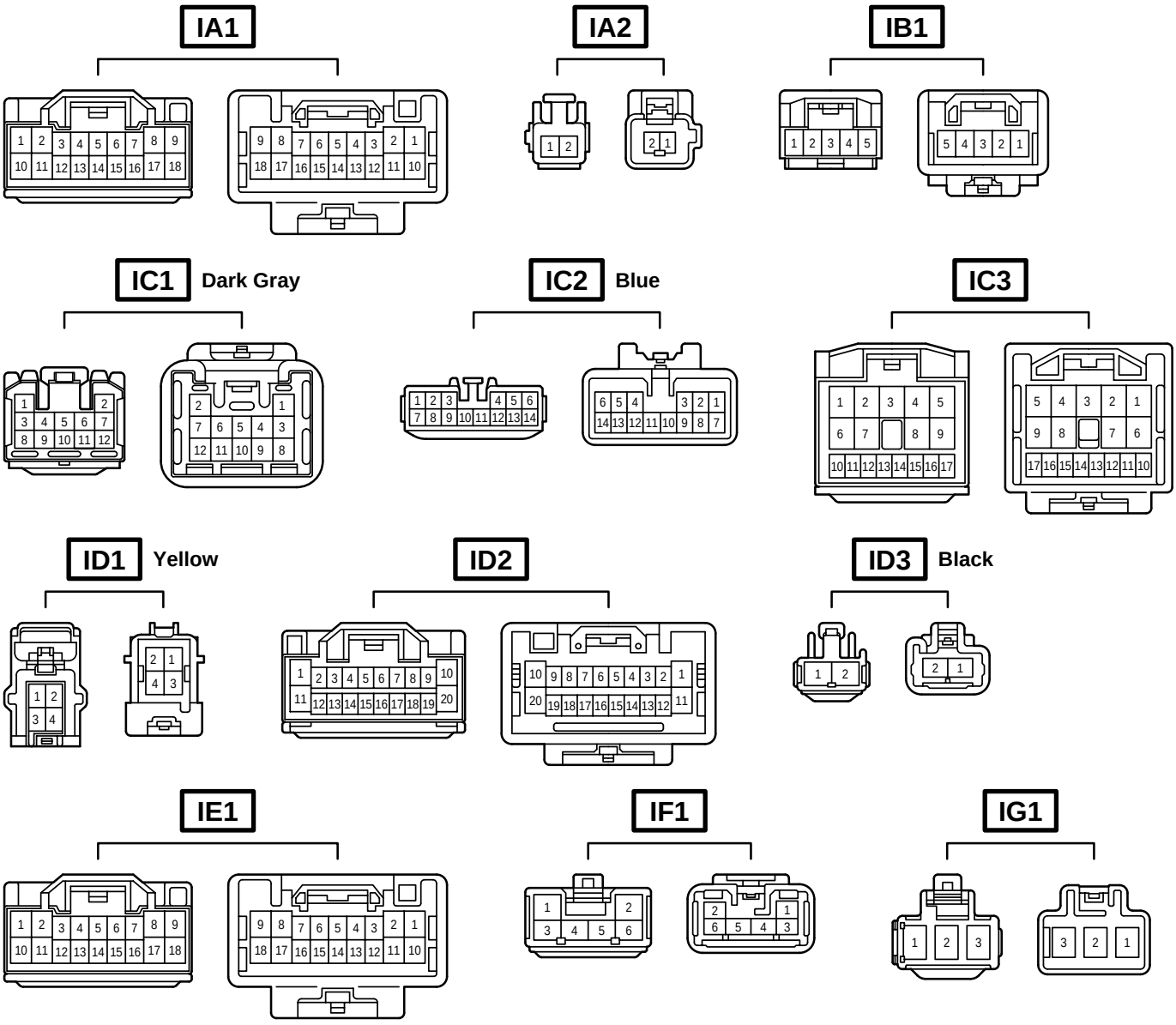
[LHD]



▽ : Location of Ground Points



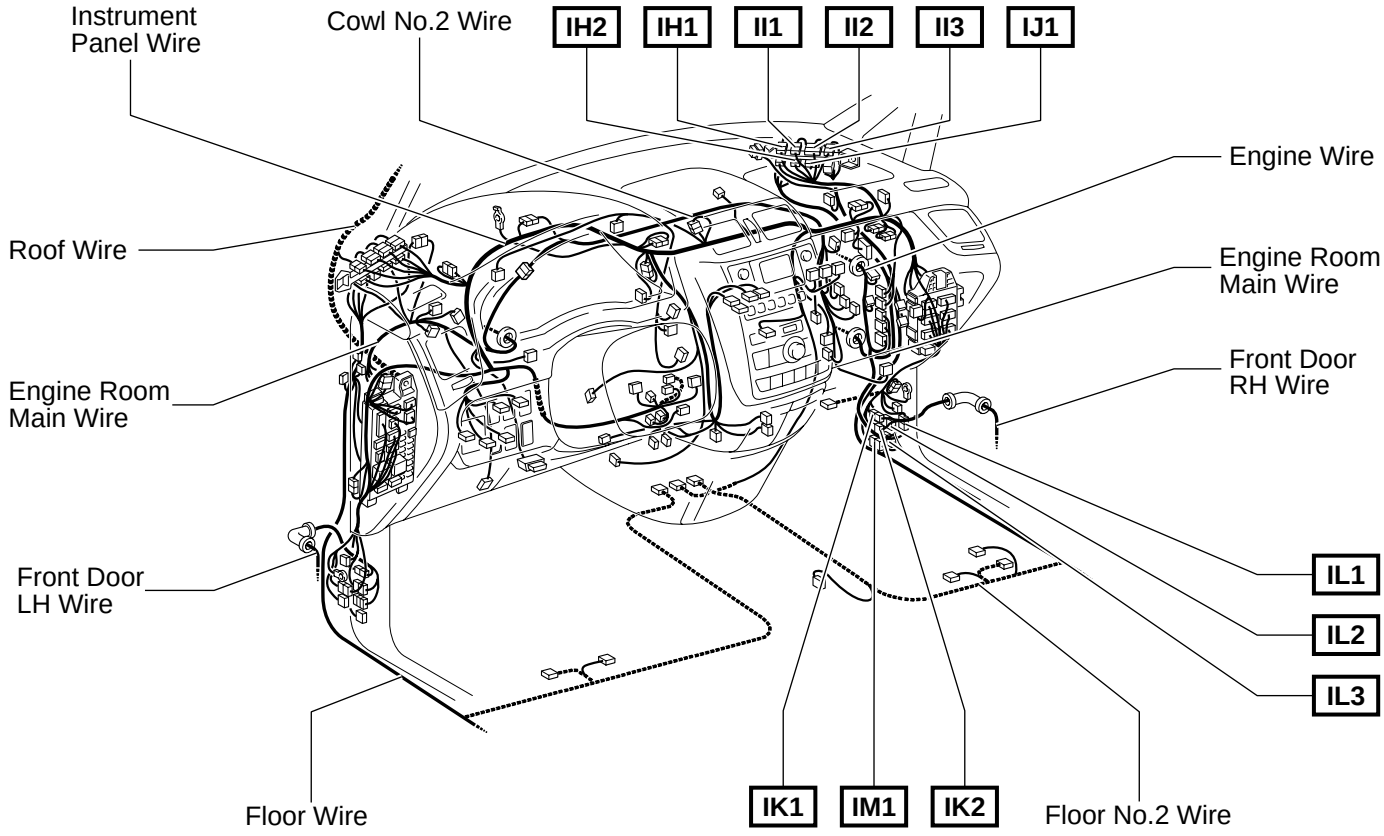
Connector Joining Wire Harness and Wire Harness



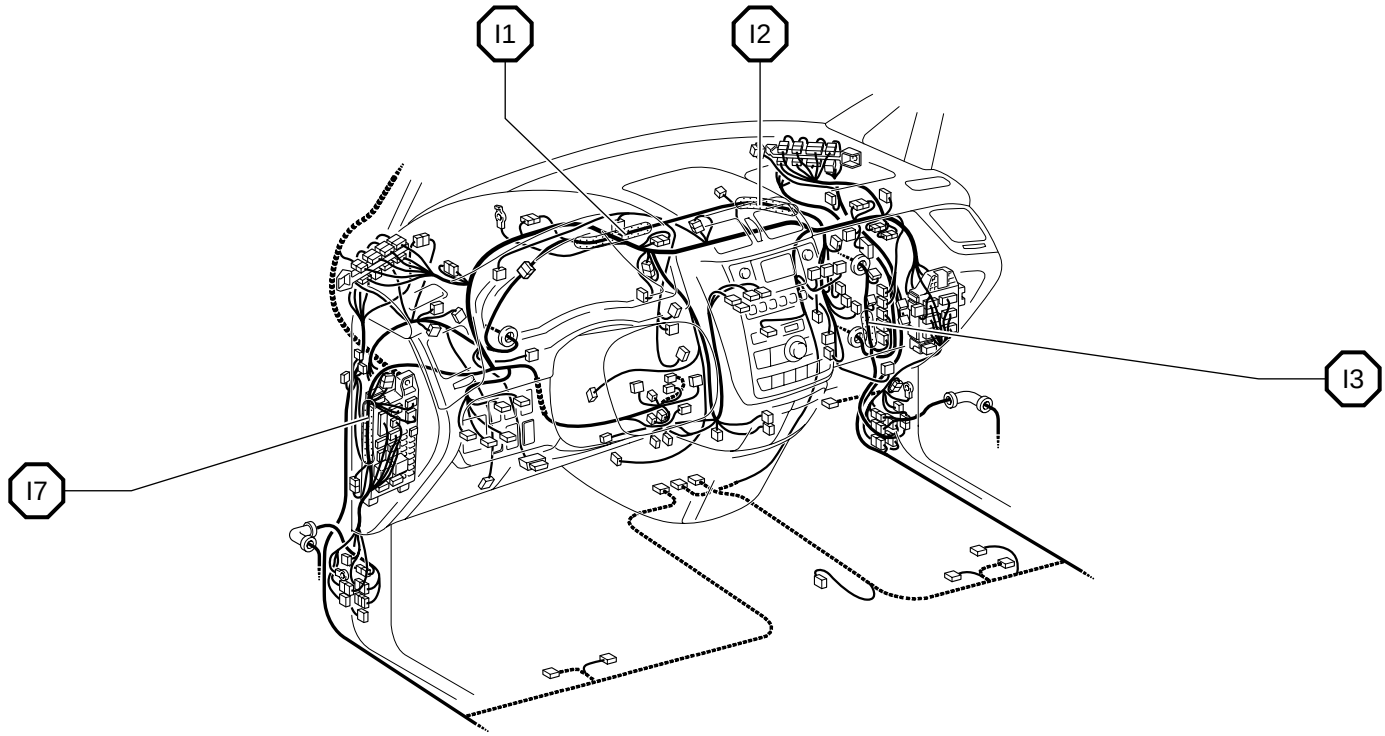
Code	Joining Wire Harness and Wire Harness (Connector Location)
IA1	Front Door LH Wire and Instrument Panel Wire (Left Kick Panel)
IA2	
IB1	Instrument Panel Wire and Roof Wire (Upper Part of Front Body Pillar LH)
IC1	Instrument Panel Wire and Floor Wire (Upper Part of Front Body Pillar LH)
IC2	
IC3	
ID1	Instrument Panel Wire and Engine Room Main Wire (Upper Part of Front Body Pillar LH)
ID2	
ID3	
IE1	Engine Room Main Wire and Floor Wire (Upper Part of Front Body Pillar LH)
IF1	Instrument Panel Wire and Cowl No.2 Wire (Behind the Combination Meter)
IG1	Cowl No.2 Wire and Engine Room Main Wire (Behind the Combination Meter)

▭ : Location of Connector Joining Wire Harness and Wire Harness

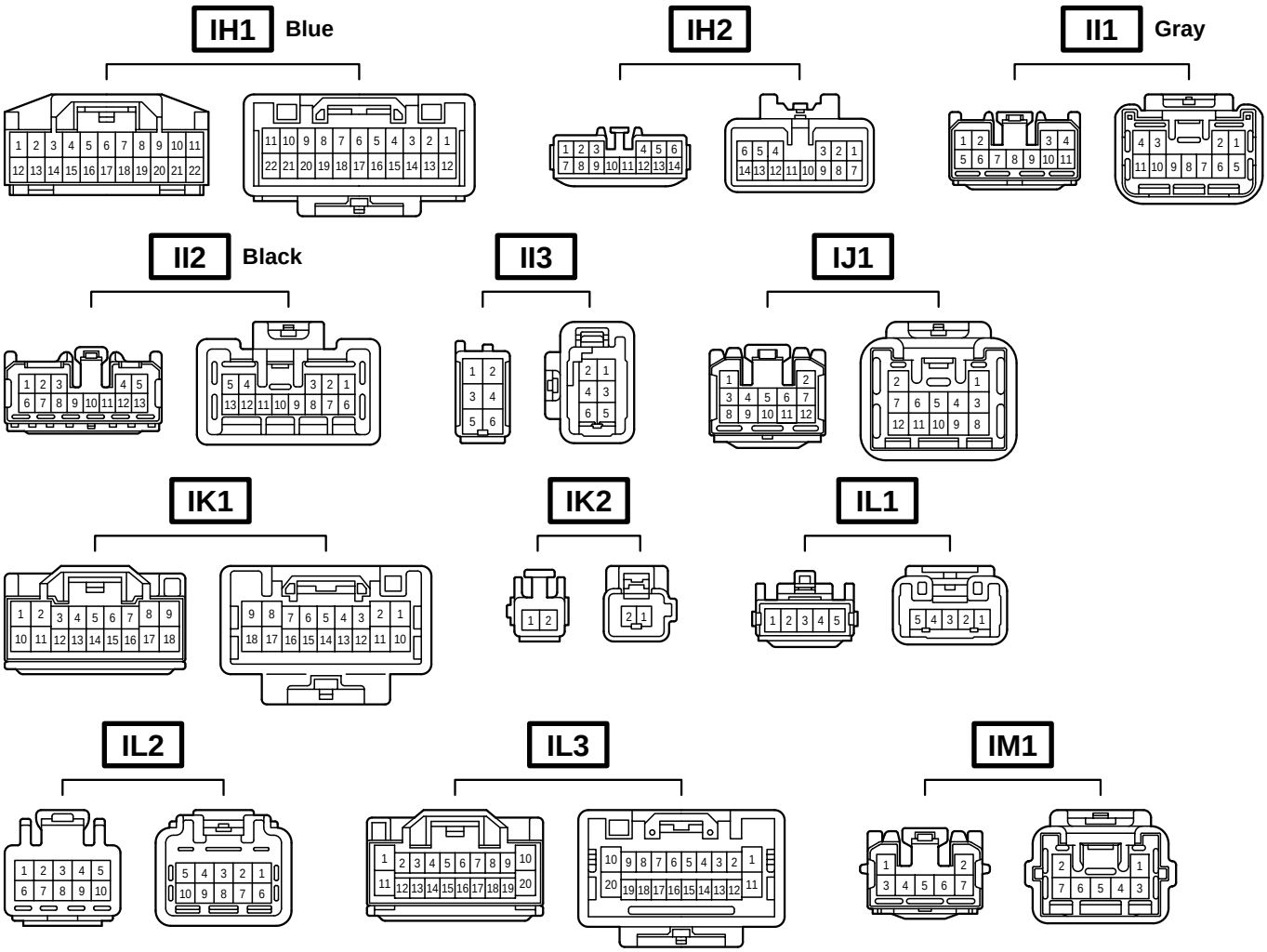
[LHD]



◯ : Location of Splice Points



Connector Joining Wire Harness and Wire Harness

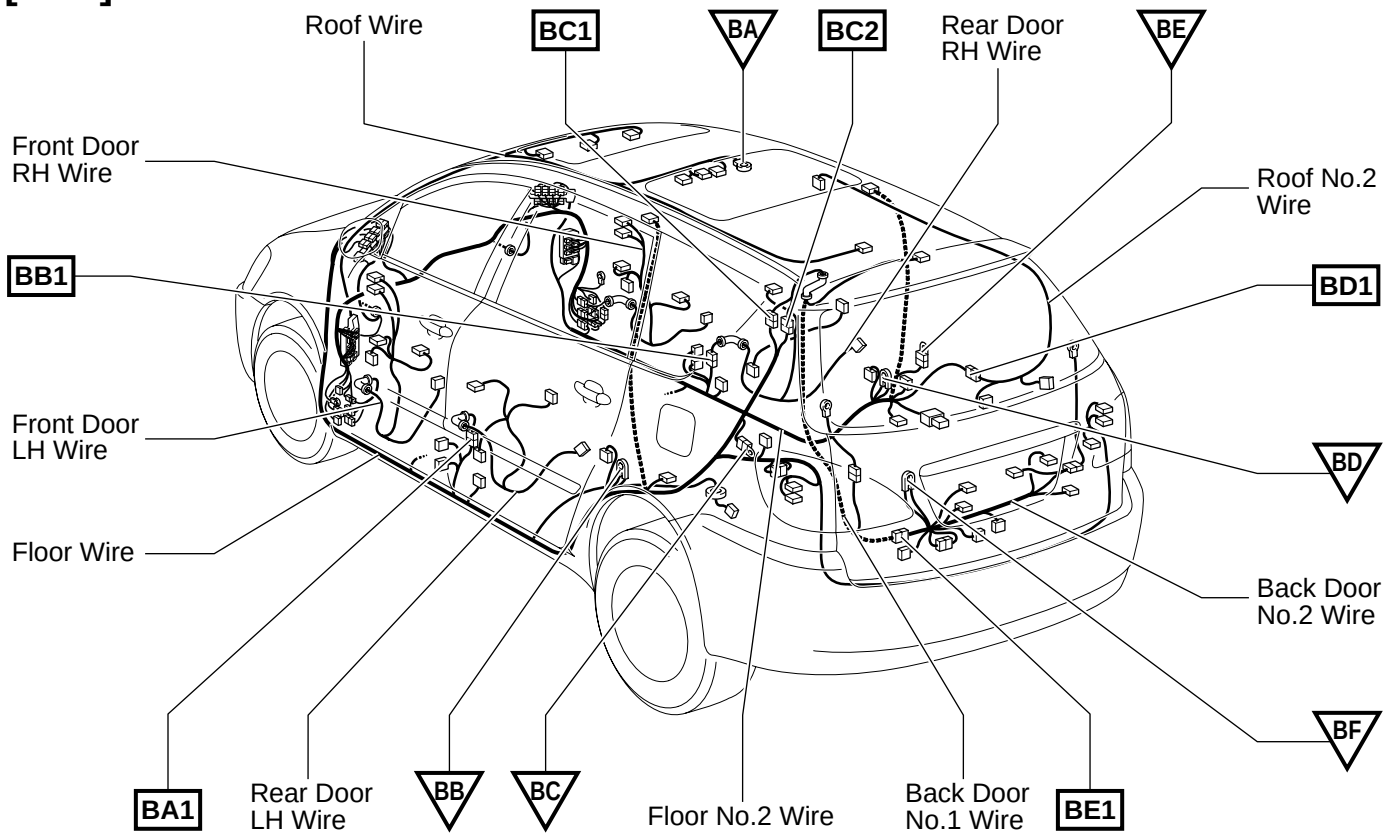


Code	Joining Wire Harness and Wire Harness (Connector Location)
IH1	Instrument Panel Wire and Engine Room Main Wire (Upper Part of Front Pillar RH)
IH2	
II1	Instrument Panel Wire and Floor No.2 Wire (Upper Part of Front Body Pillar RH)
II2	
II3	
IJ1	Engine Room Main Wire and Floor No.2 Wire (Upper Part of Front Body Pillar RH)
IK1	Front Door RH Wire and Instrument Panel Wire (Right Kick Panel)
IK2	
IL1	Engine Wire and Instrument Panel Wire (Right Kick Panel)
IL2	
IL3	
IM1	Floor No.2 Wire and Instrument Panel Wire (Right Kick Panel)

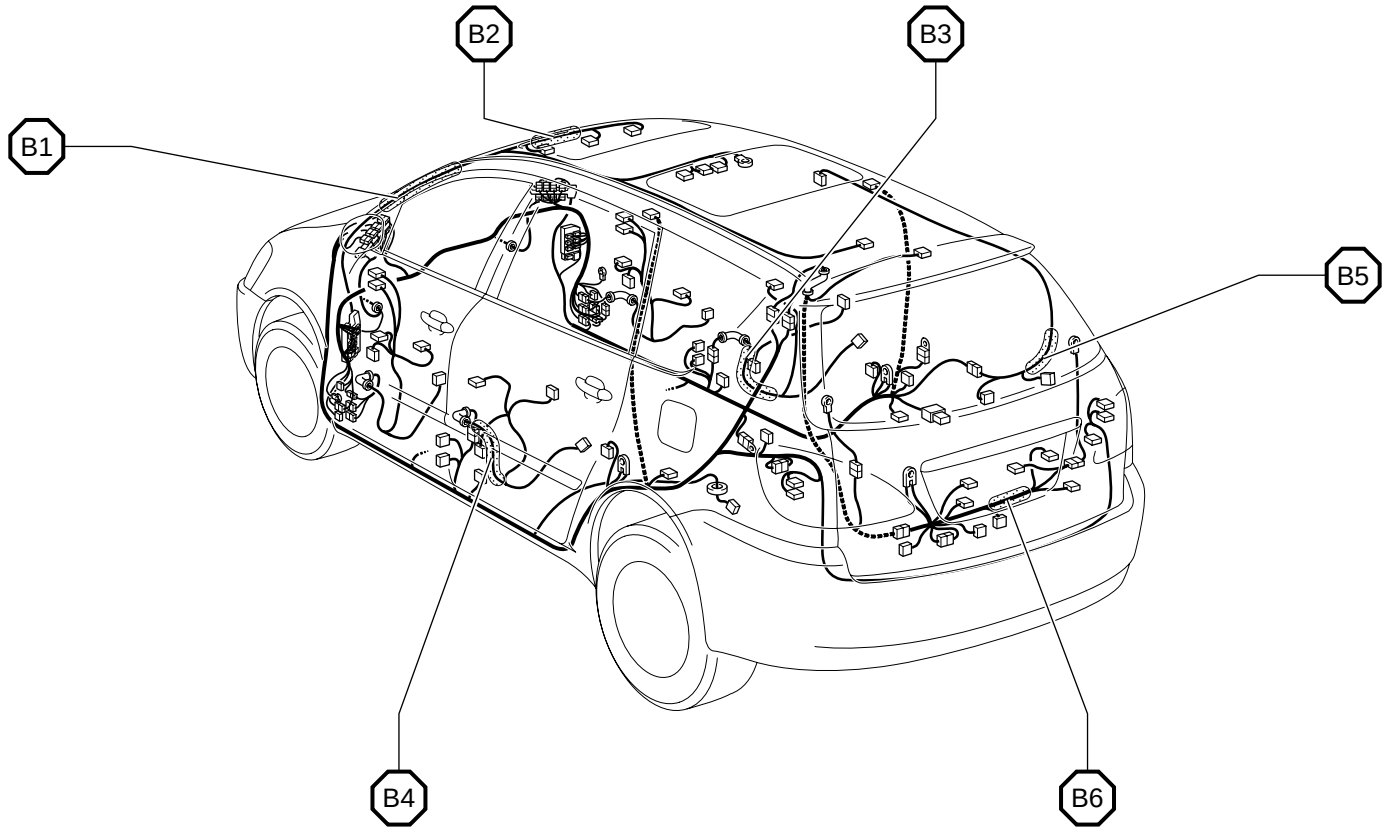
▭ : Location of Connector Joining Wire Harness and Wire Harness

▽ : Location of Ground Points

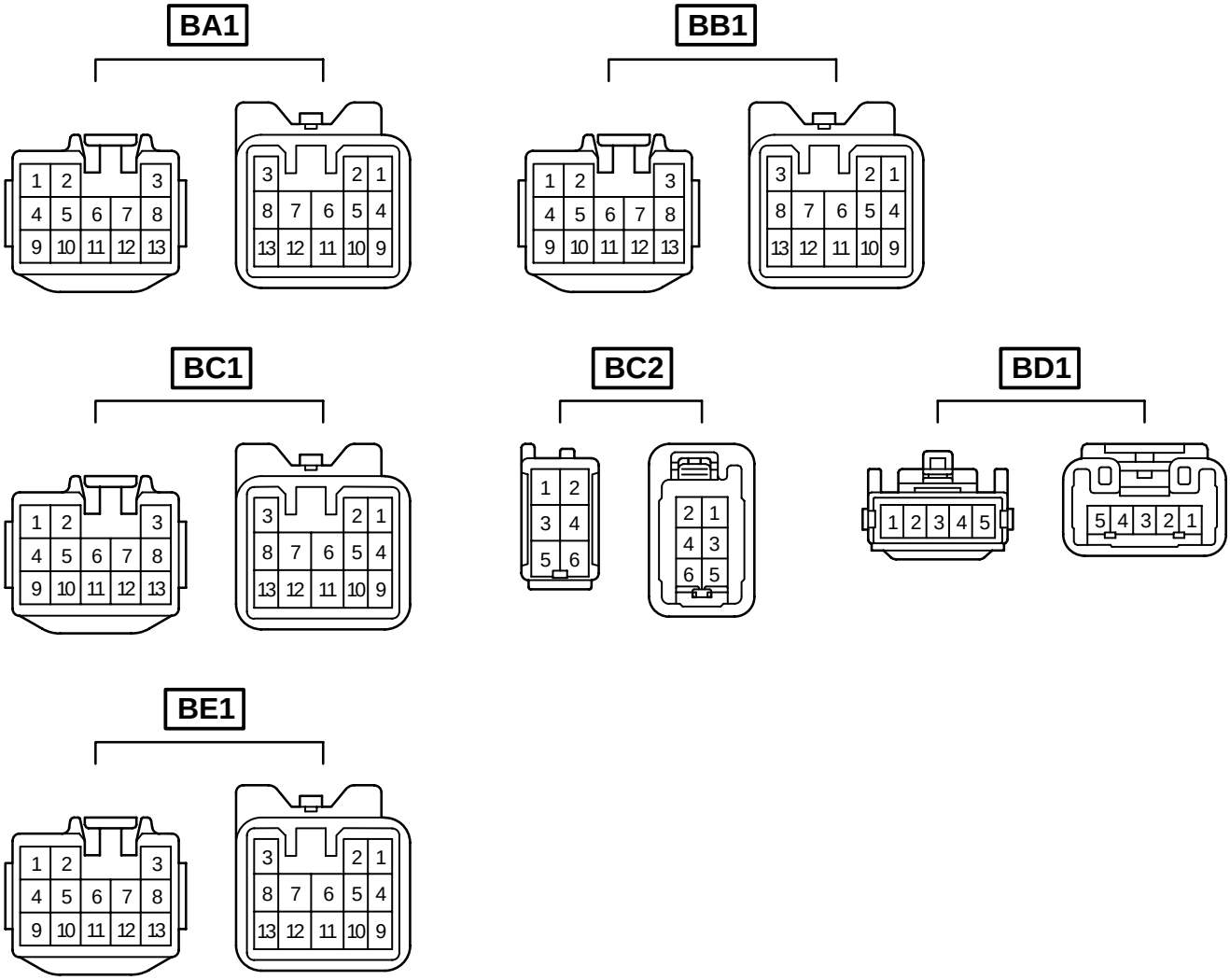
[LHD]



○ : Location of Splice Points



Connector Joining Wire Harness and Wire Harness

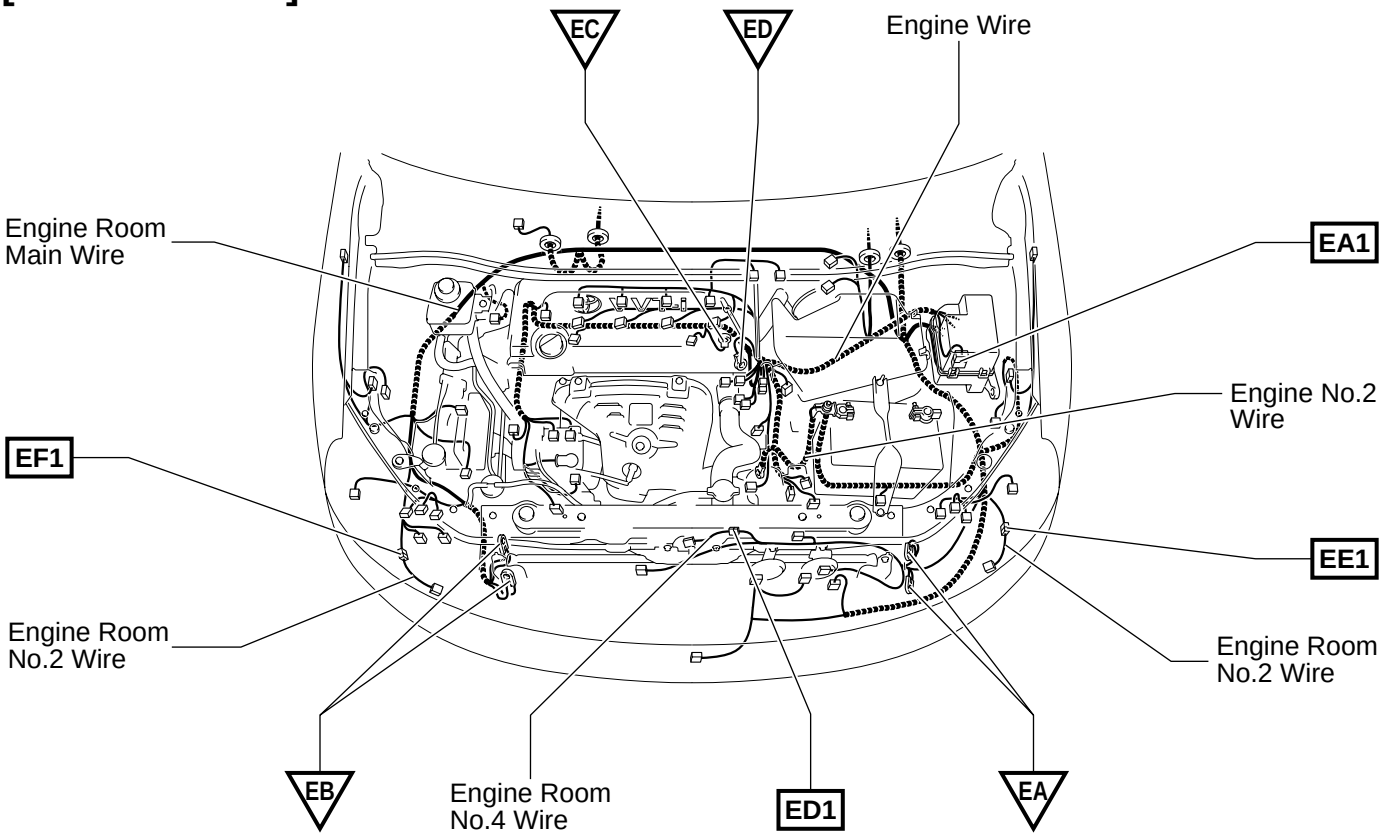


Code	Joining Wire Harness and Wire Harness (Connector Location)
BA1	Rear Door LH Wire and Floor Wire (Left Center Pillar)
BB1	Rear Door RH Wire and Floor No.2 Wire (Right Center Pillar)
BC1	Back Door No.1 Wire and Floor Wire (Upper Part of Left Quarter Panel)
BC2	
BD1	Roof No.2 Wire and Floor No.2 Wire (Right Quarter Panel)
BE1	Back Door No.1 Wire and Back Door No.2 Wire (Back Door Left)

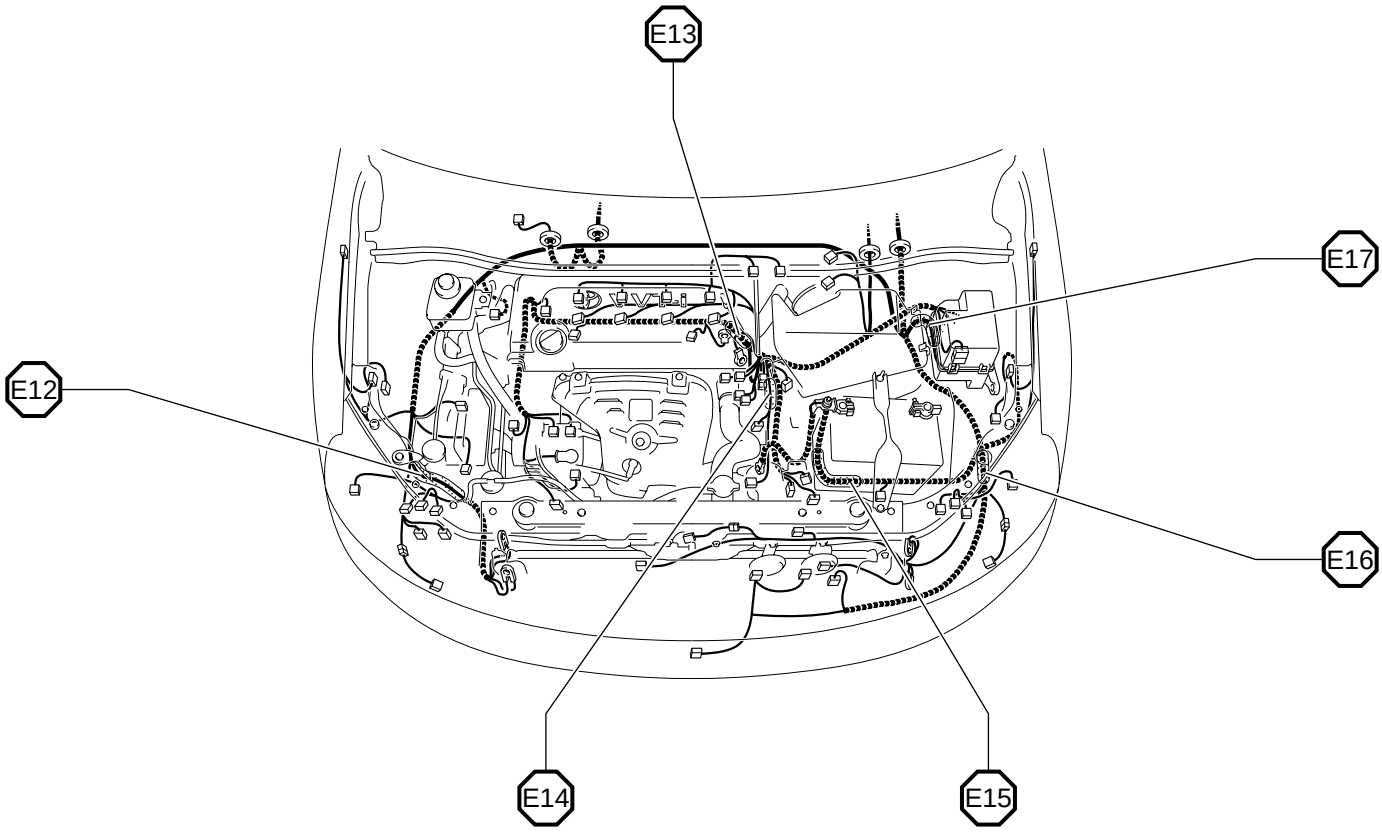
▭ : Location of Connector Joining Wire Harness and Wire Harness

▽ : Location of Ground Points

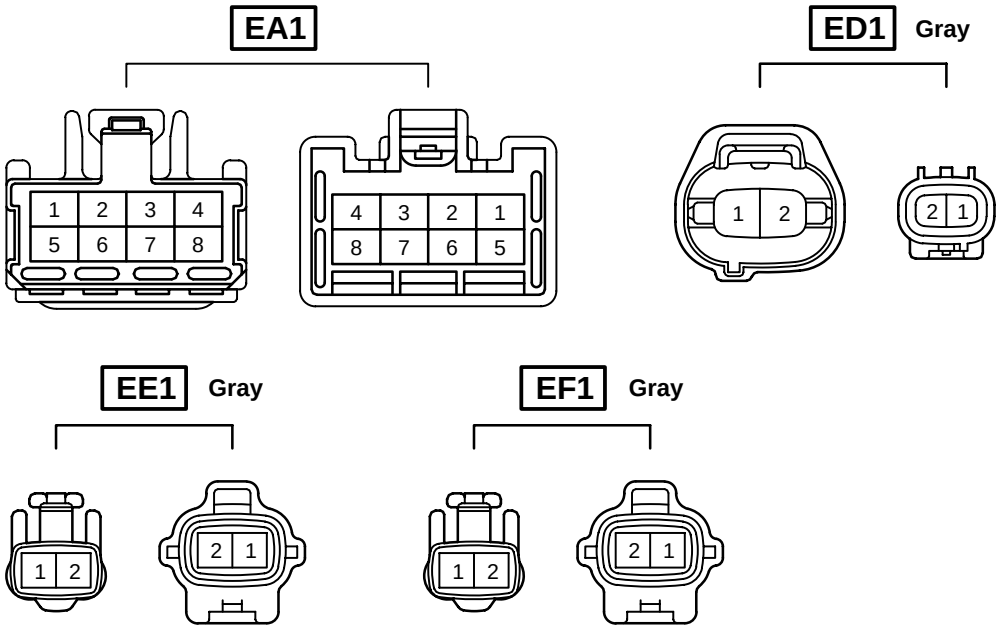
[RHD : 1AZ–FE]



○ : Location of Splice Points



Connector Joining Wire Harness and Wire Harness

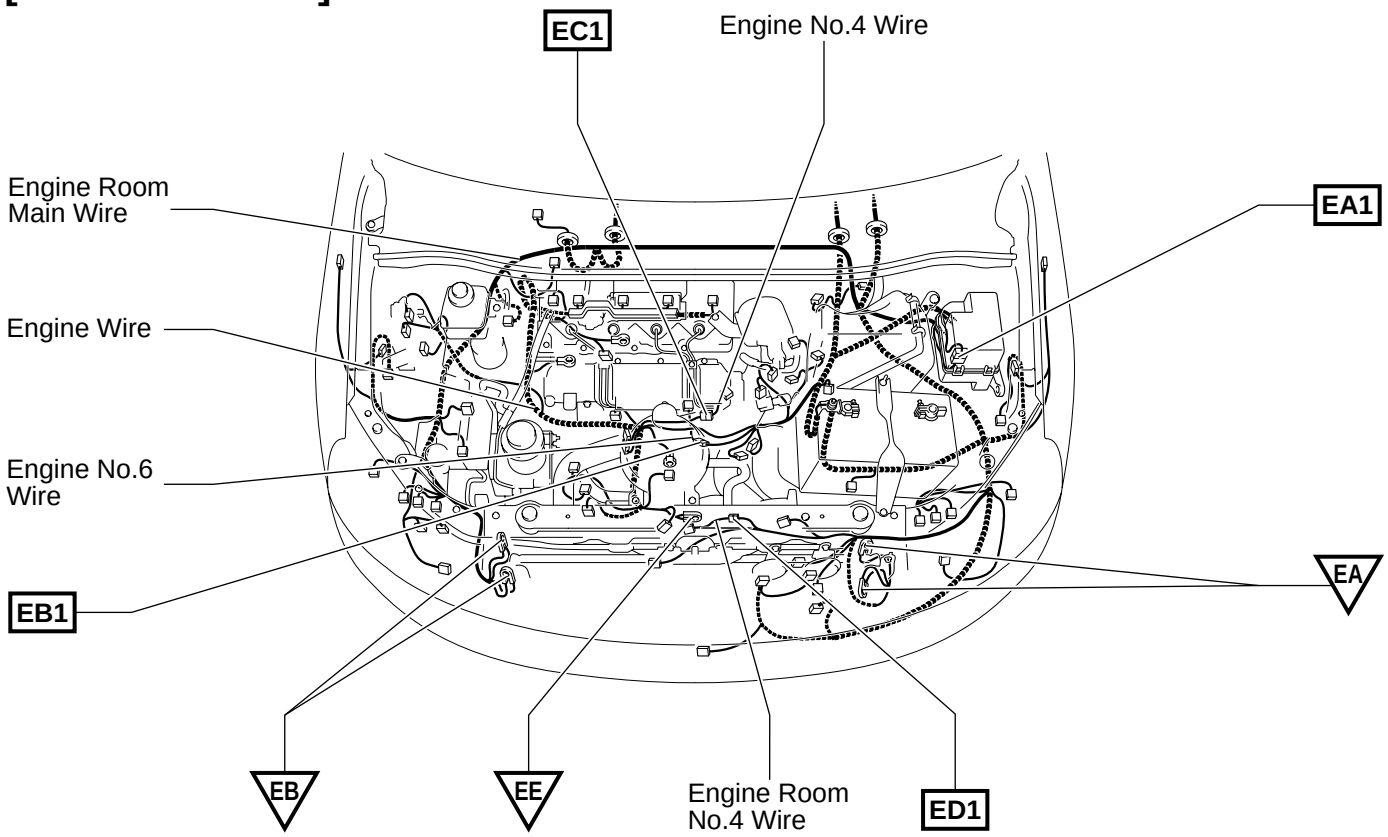


Code	Joining Wire Harness and Wire Harness (Connector Location)
EA1	Engine Wire and Engine Room Main Wire (Near the Engine Room R/B)
ED1	Engine Room No.4 Wire and Engine Room Main Wire (Near the Radiator Fan Motor)
EE1	Engine Room No.2 Wire and Engine Room Main Wire (Under the Headlight LH)
EF1	Engine Room No.2 Wire and Engine Room Main Wire (Under the Headlight RH)

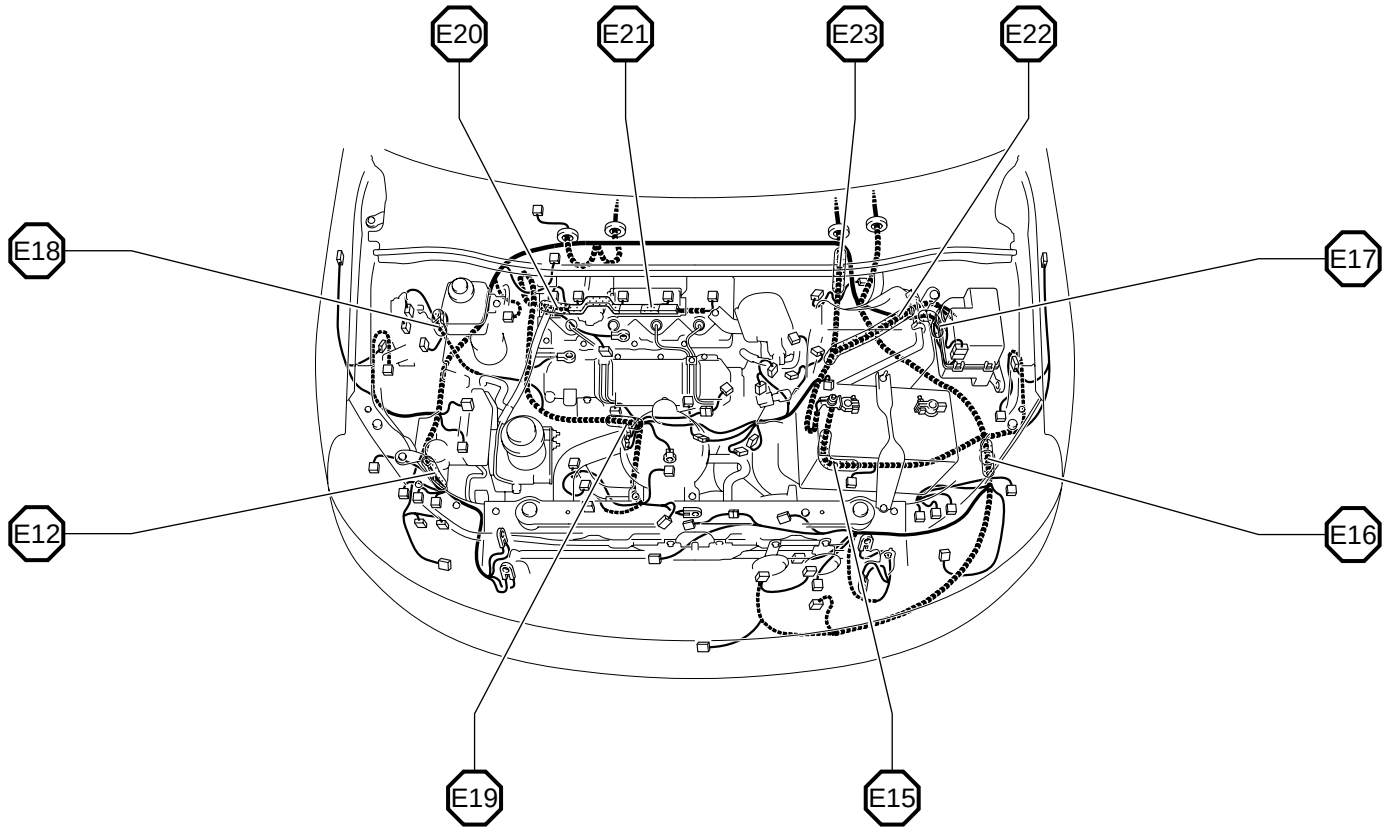
▭ : Location of Connector Joining Wire Harness and Wire Harness

▽ : Location of Ground Points

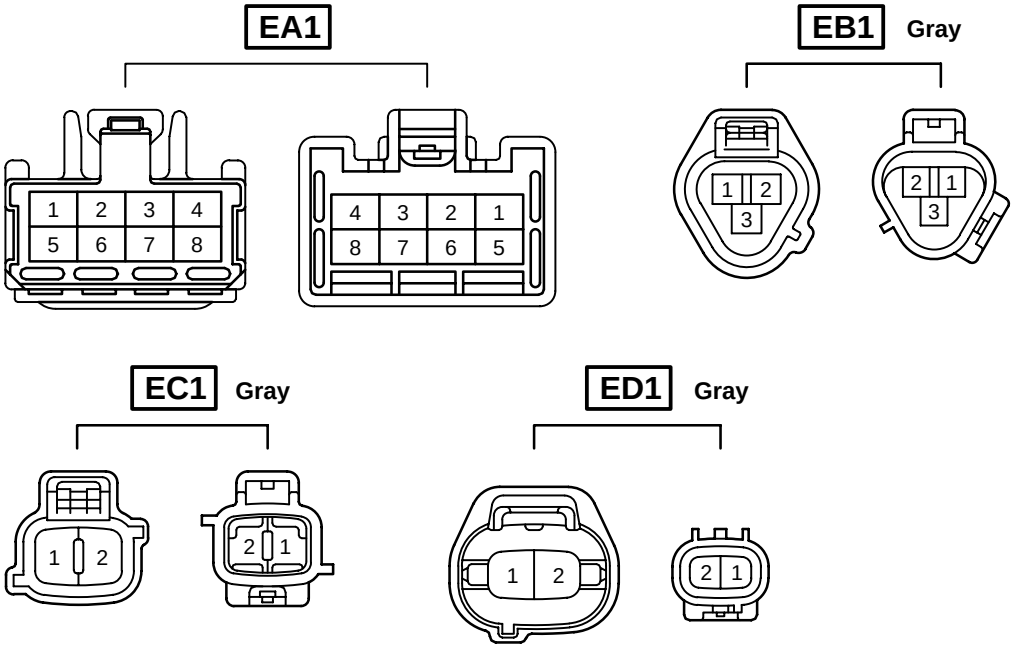
[RHD : 1CD–FTV]



○ : Location of Splice Points



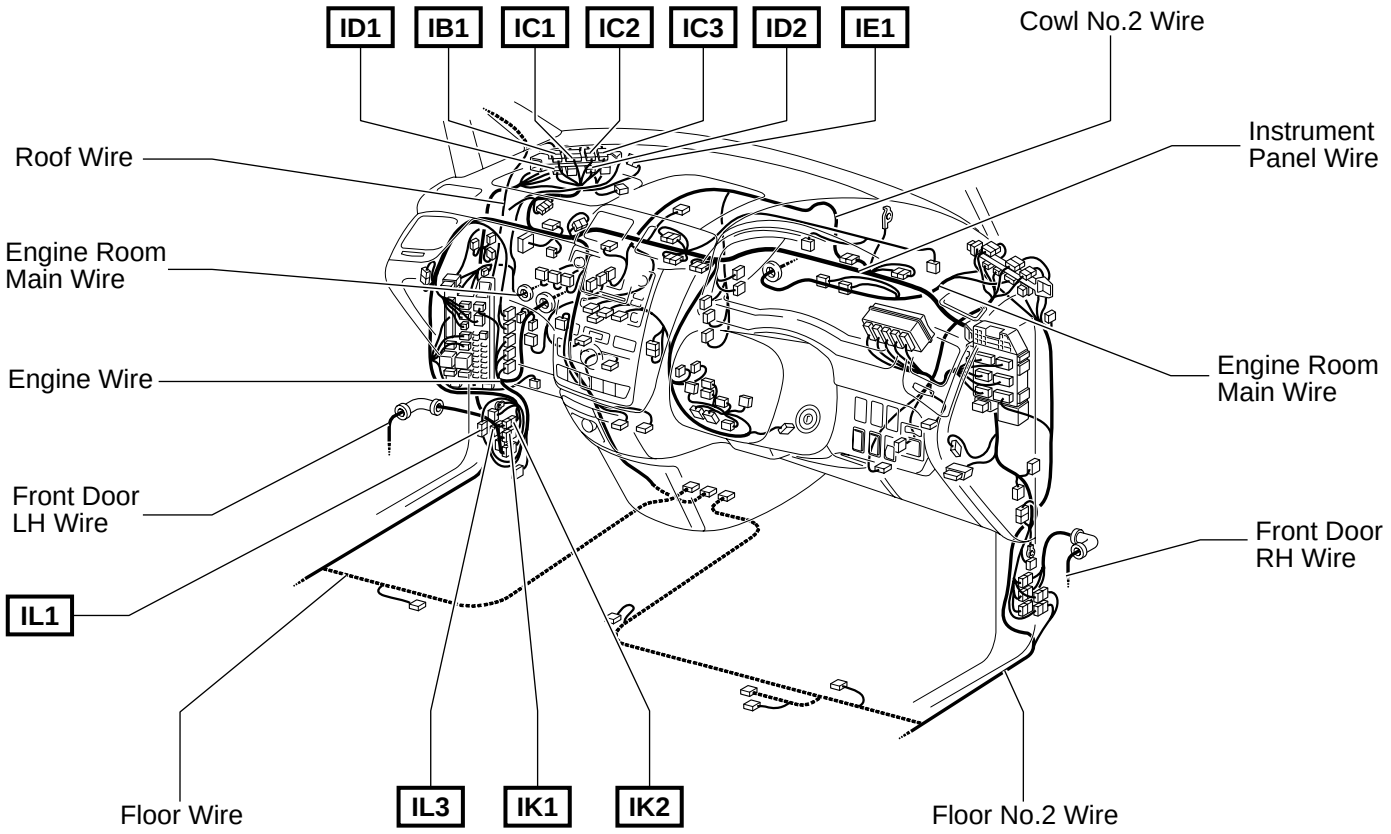
Connector Joining Wire Harness and Wire Harness



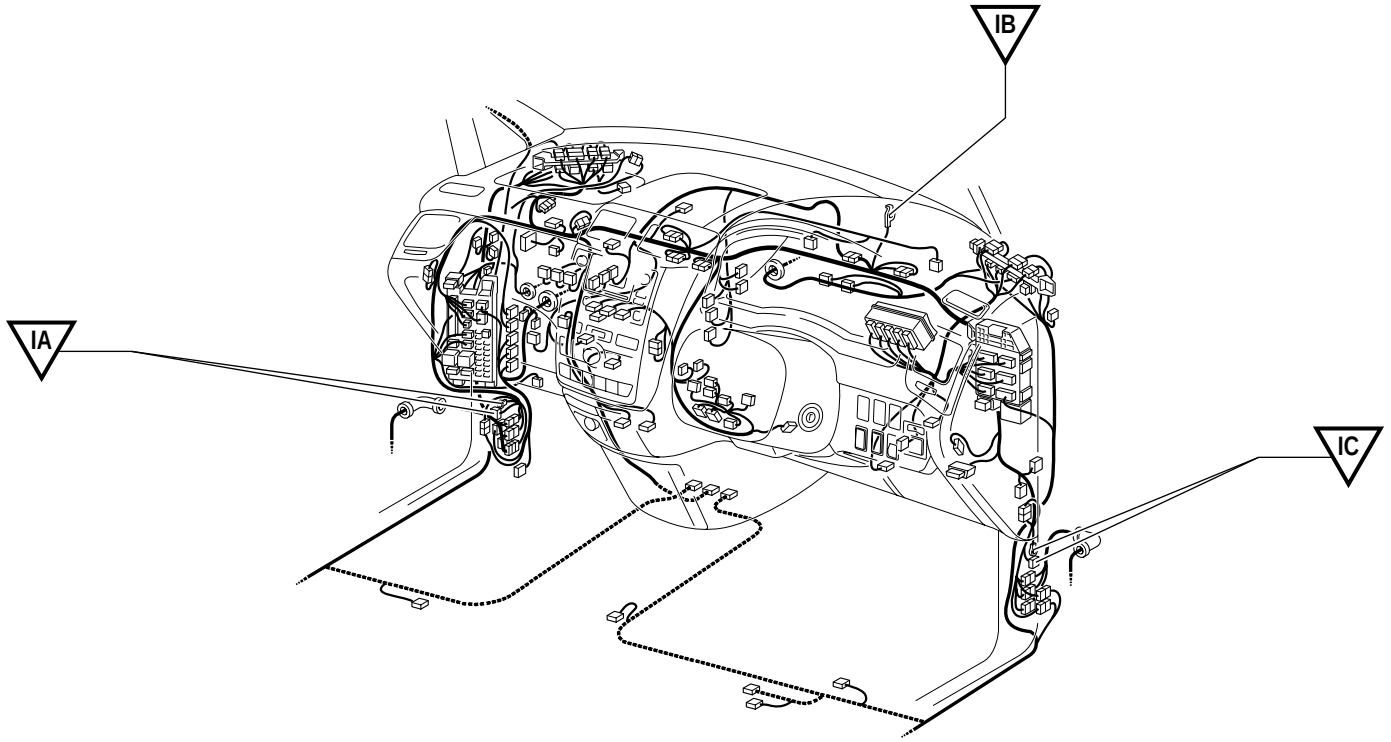
Code	Joining Wire Harness and Wire Harness (Connector Location)
EA1	Engine Wire and Engine Room Main Wire (Near the Engine Room R/B)
EB1	Engine Wire and Engine No.6 Wire (Near the Starter Motor)
EC1	Engine Wire and Engine No.4 Wire (Near the Starter Motor)
ED1	Engine Room No.4 Wire and Engine Room Main Wire (Near the Radiator Fan Motor)

▭ : Location of Connector Joining Wire Harness and Wire Harness

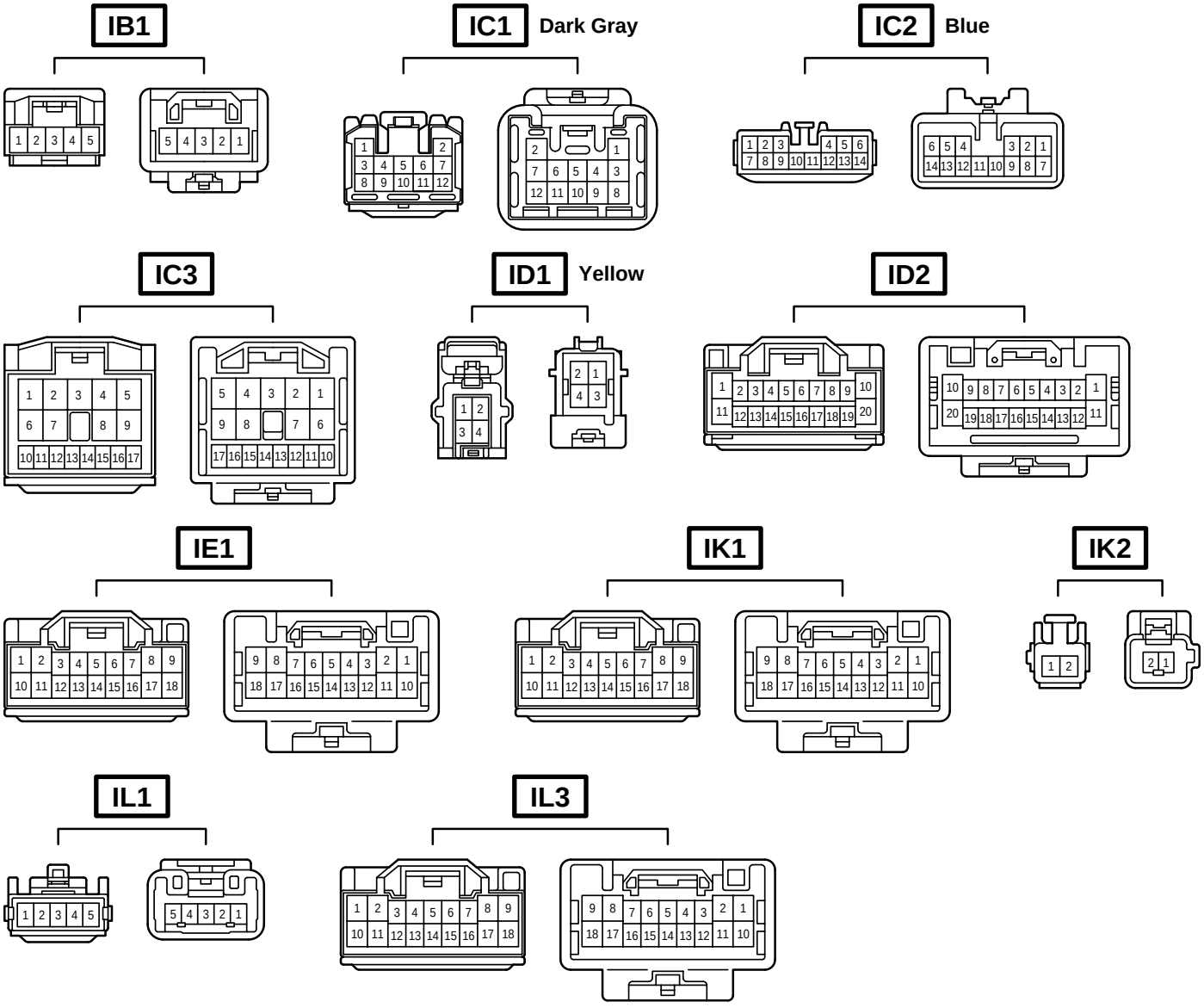
[RHD]



▽ : Location of Ground Points



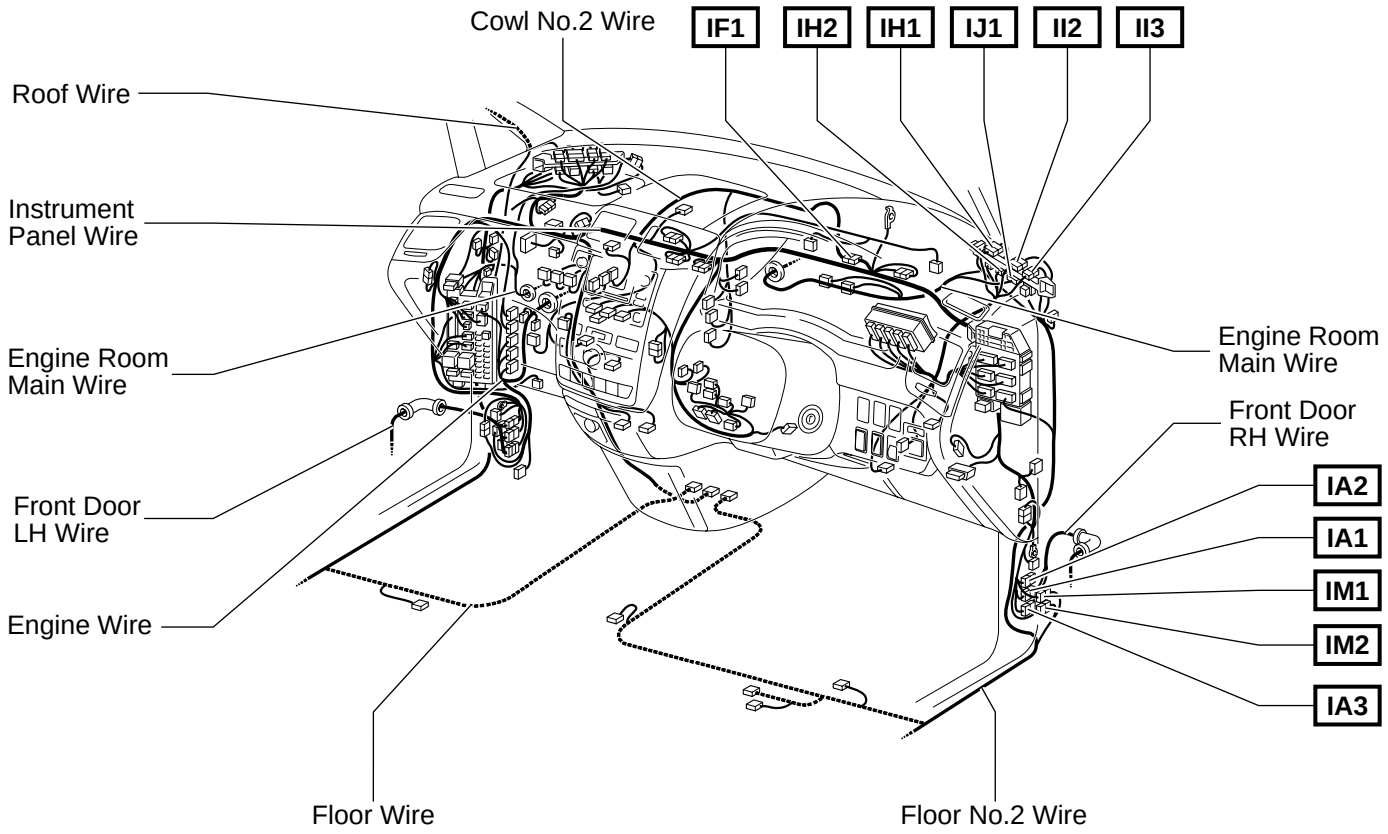
Connector Joining Wire Harness and Wire Harness



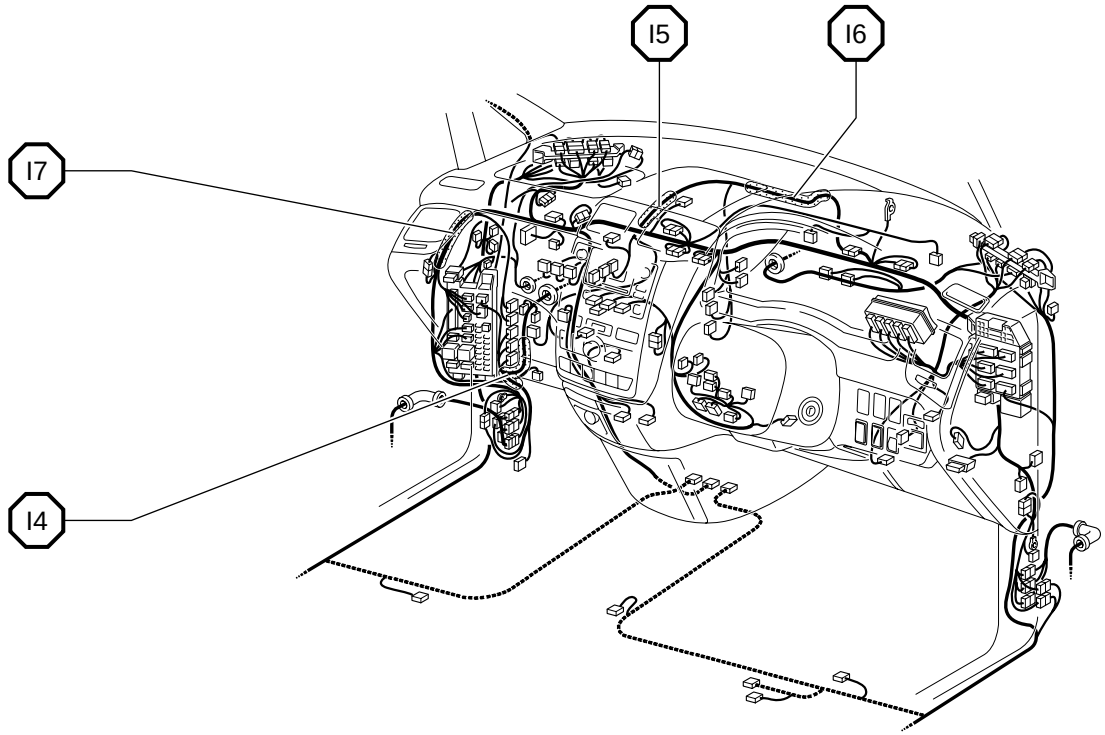
Code	Joining Wire Harness and Wire Harness (Connector Location)
IB1	Instrument Panel Wire and Roof Wire (Upper Part of Front Body Pillar LH)
IC1	Instrument Panel Wire and Floor Wire (Upper Part of Front Body Pillar LH)
IC2	
IC3	
ID1	Instrument Panel Wire and Engine Room Main Wire (Upper Part of Front Body Pillar LH)
ID2	
IE1	Engine Room Main Wire and Floor Wire (Upper Part of Front Body Pillar LH)
IK1	Front Door LH Wire and Instrument Panel Wire (Left Kick Panel)
IK2	
IL1	Engine Wire and Instrument Panel Wire (Left Kick Panel)
IL3	

▭ : Location of Connector Joining Wire Harness and Wire Harness

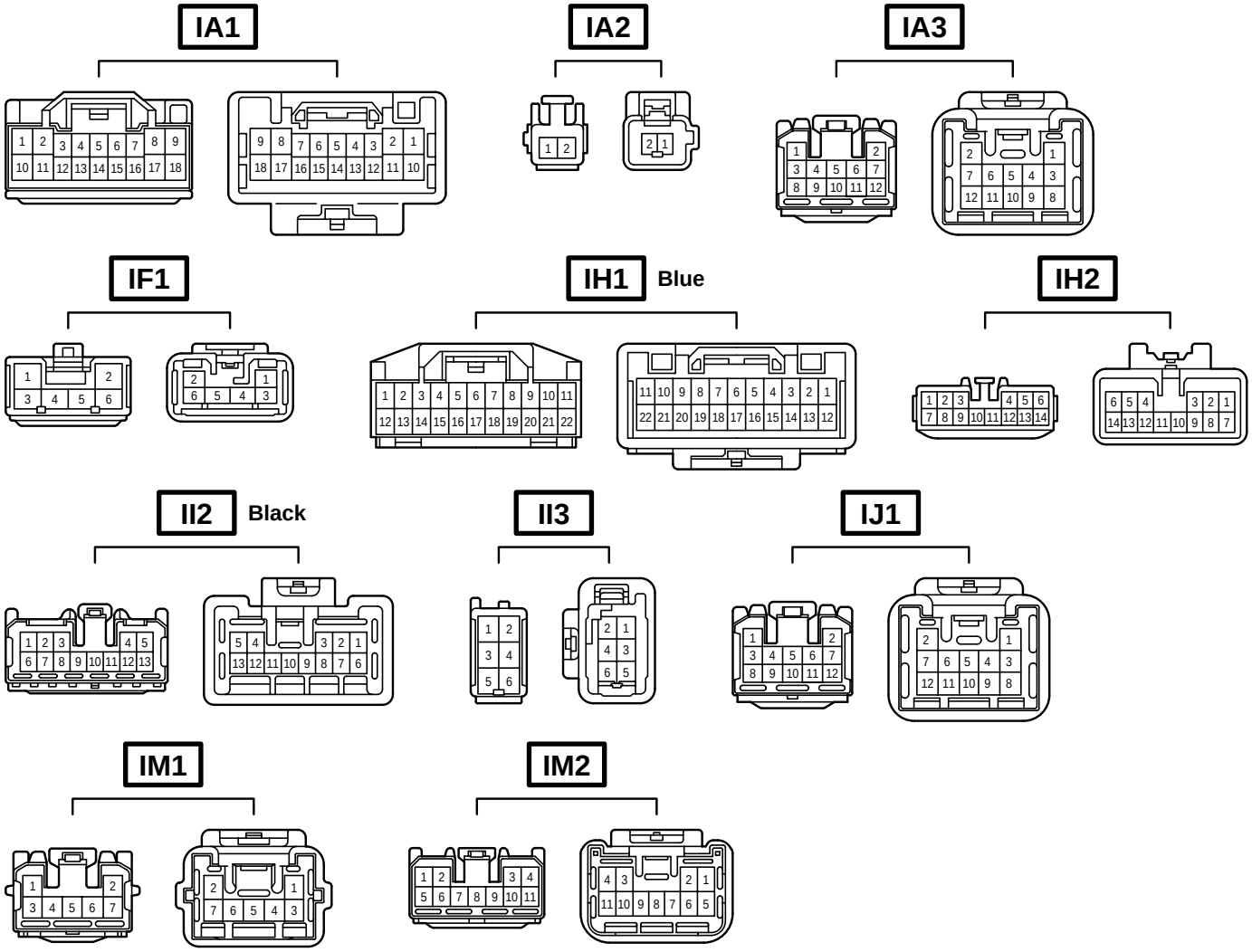
[RHD]



⬡ : Location of Splice Points



Connector Joining Wire Harness and Wire Harness

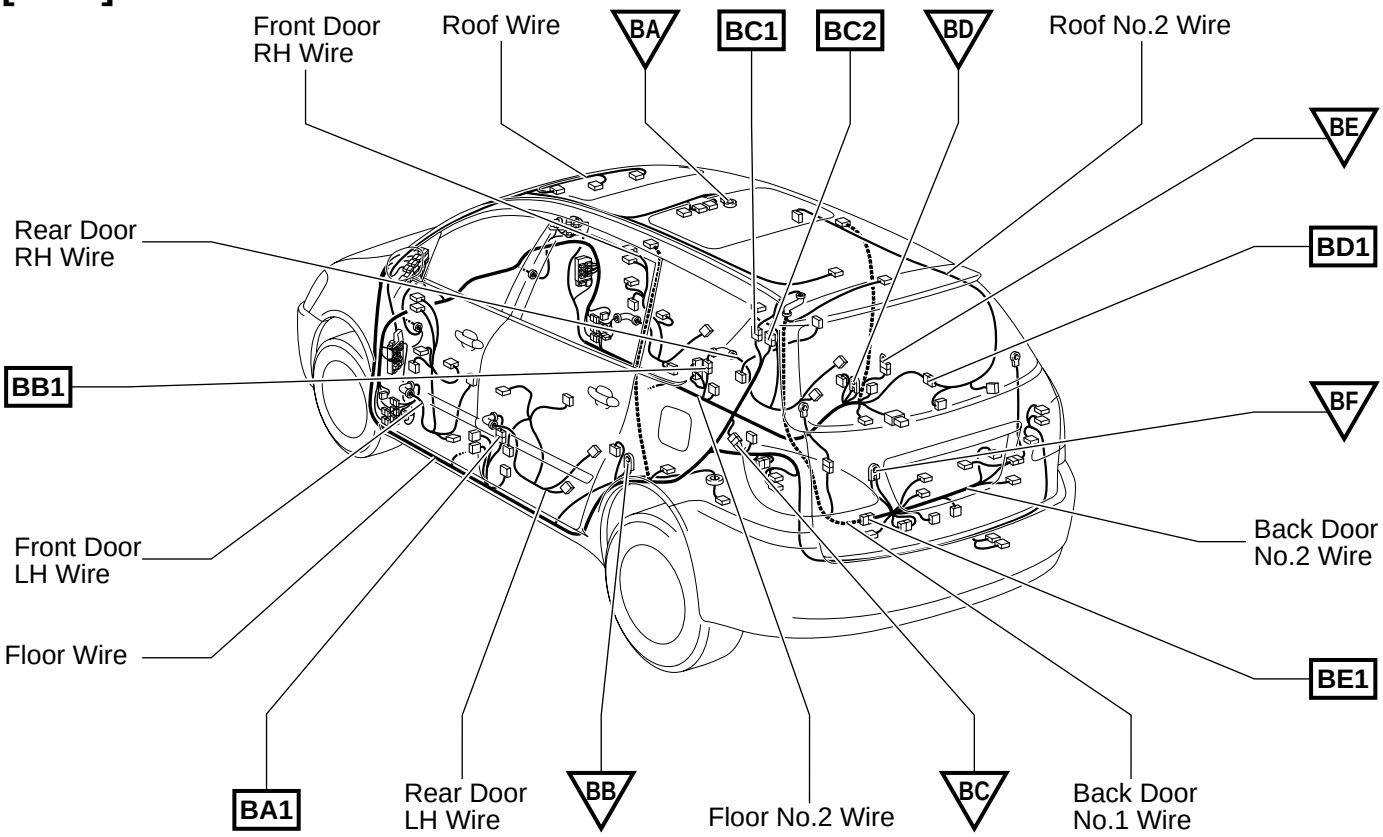


Code	Joining Wire Harness and Wire Harness (Connector Location)
IA1	Front Door RH Wire and Instrument Panel Wire (Right Kick Panel)
IA2	
IA3	
IF1	Instrument Panel Wire and Cowl No.2 Wire (Behind the Combination Meter)
IH1	Instrument Panel Wire and Engine Room Main Wire (Upper Part of Front Body Pillar RH)
IH2	
II2	Instrument Panel Wire and Floor No.2 Wire (Upper Part of Front Body Pillar RH)
II3	
IJ1	Engine Room Main Wire and Floor No.2 Wire (Upper Part of Front Body Pillar RH)
IM1	Floor No.2 Wire and Instrument Panel Wire (Right Kick Panel)
IM2	

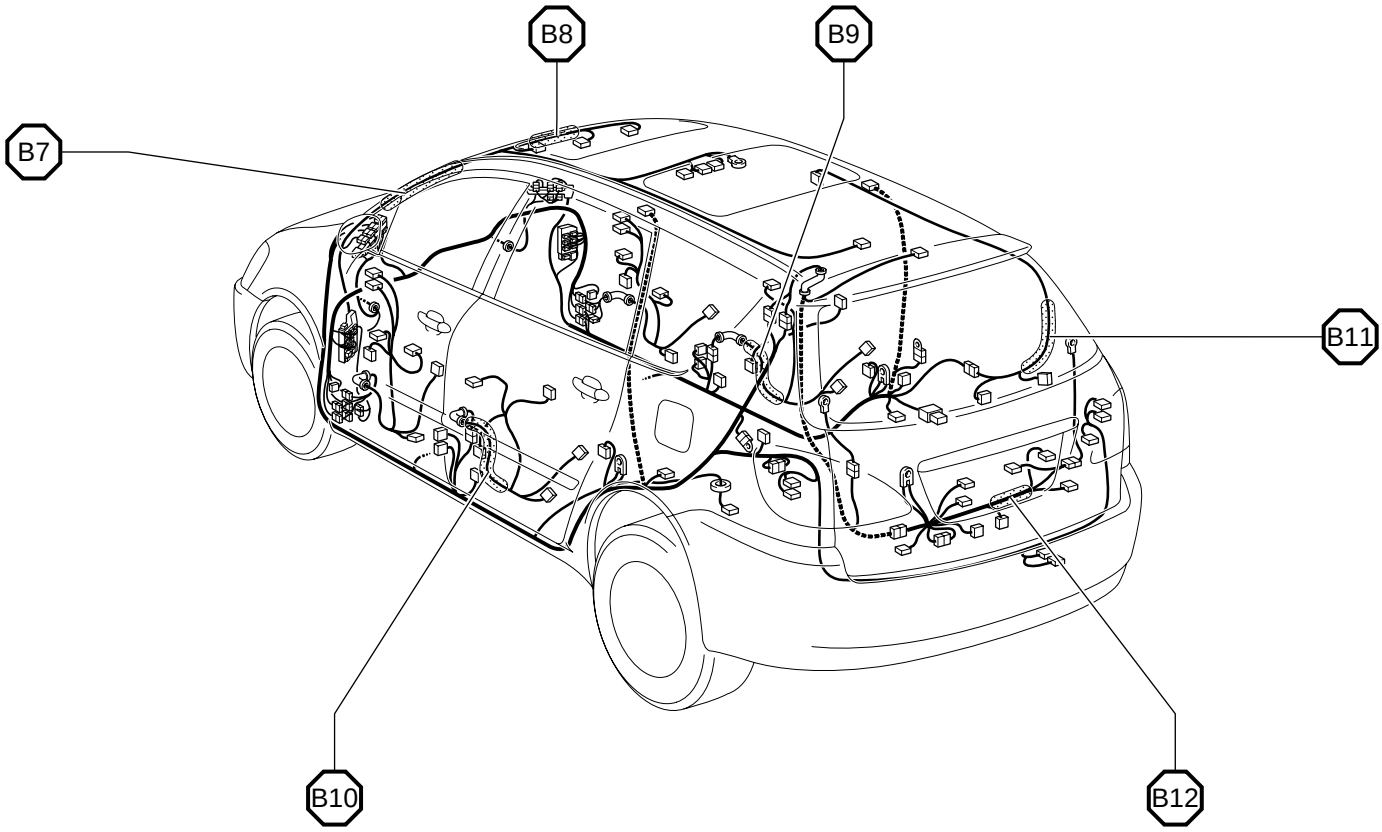
▭ : Location of Connector Joining Wire Harness and Wire Harness

▽ : Location of Ground Points

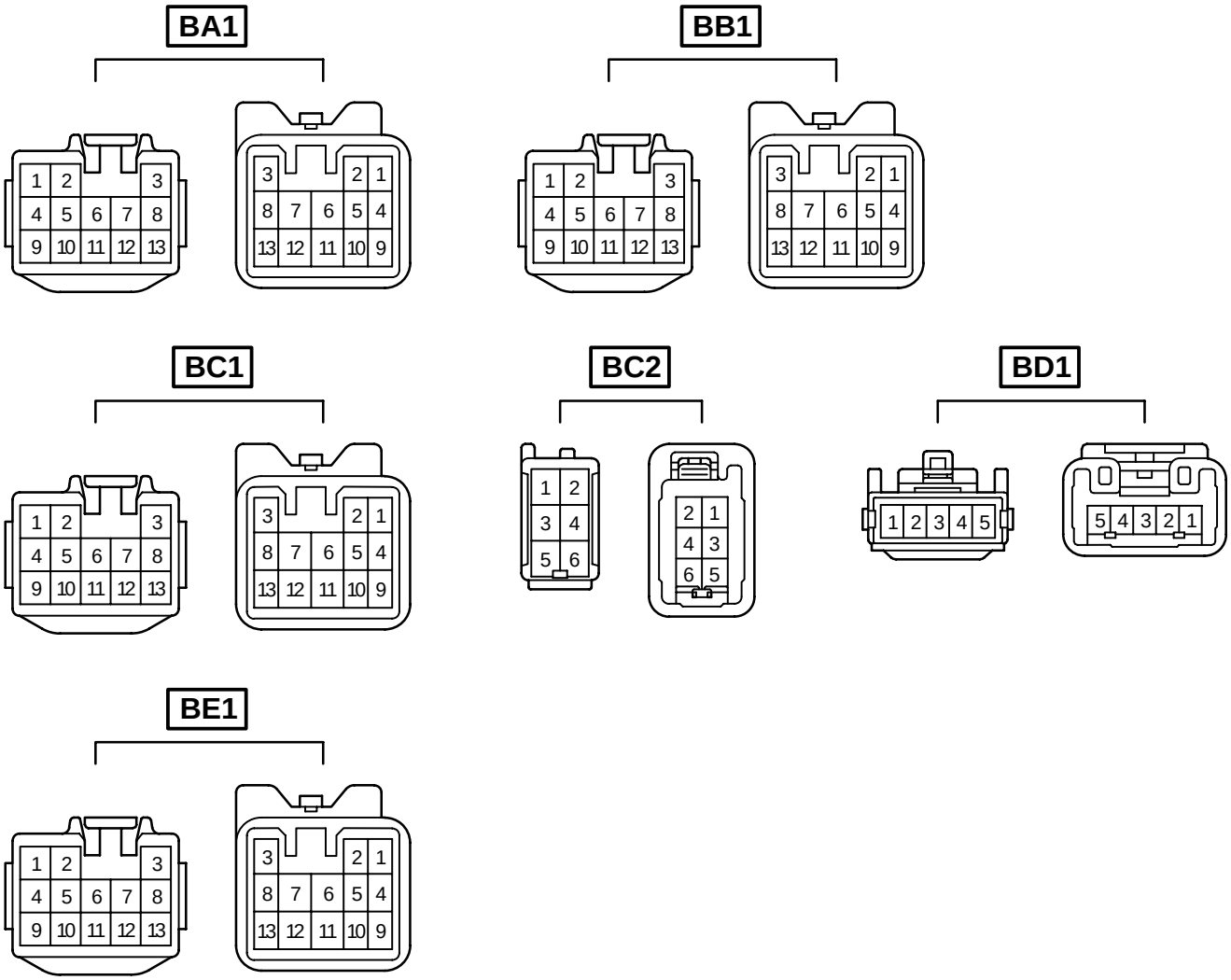
[RHD]



○ : Location of Splice Points

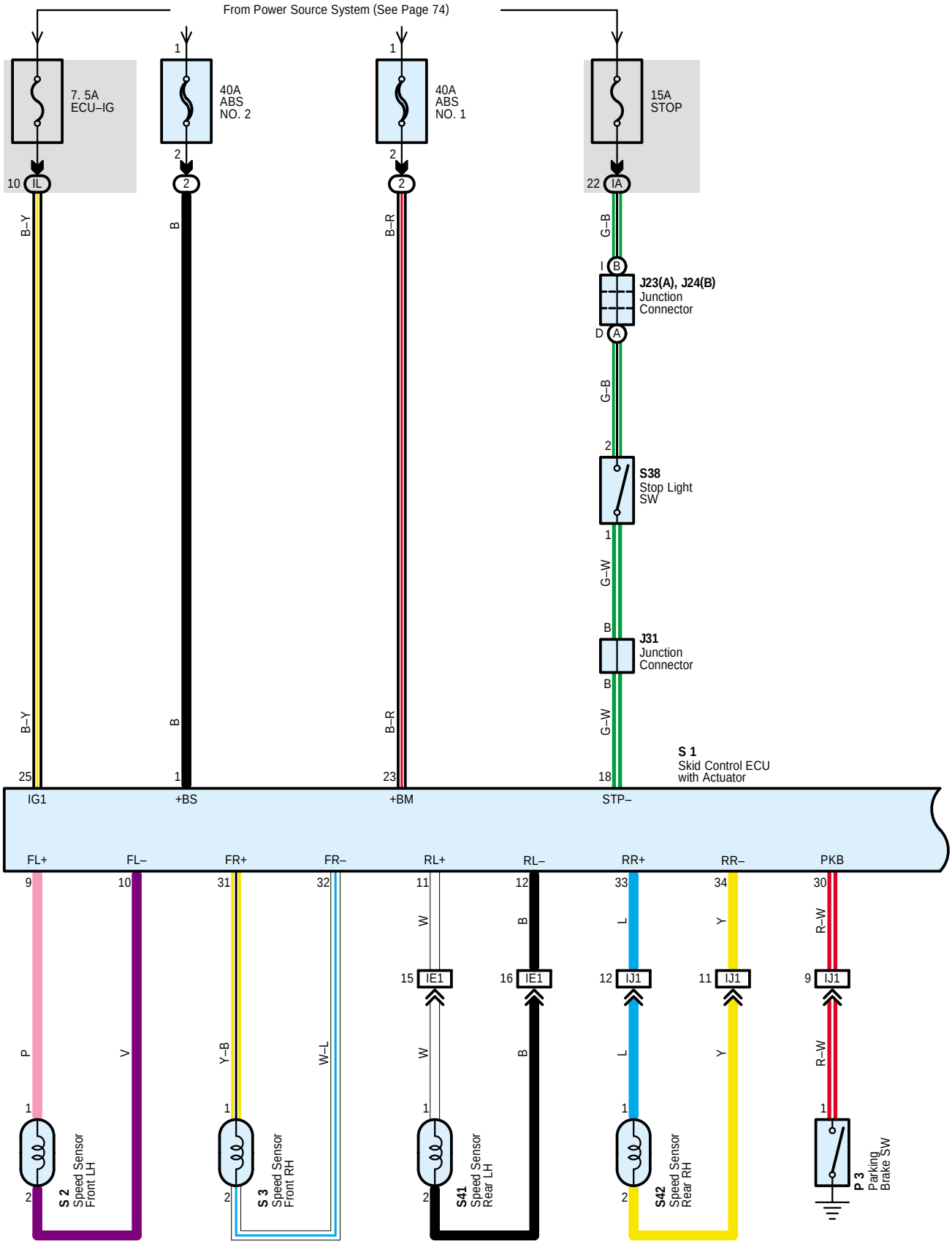


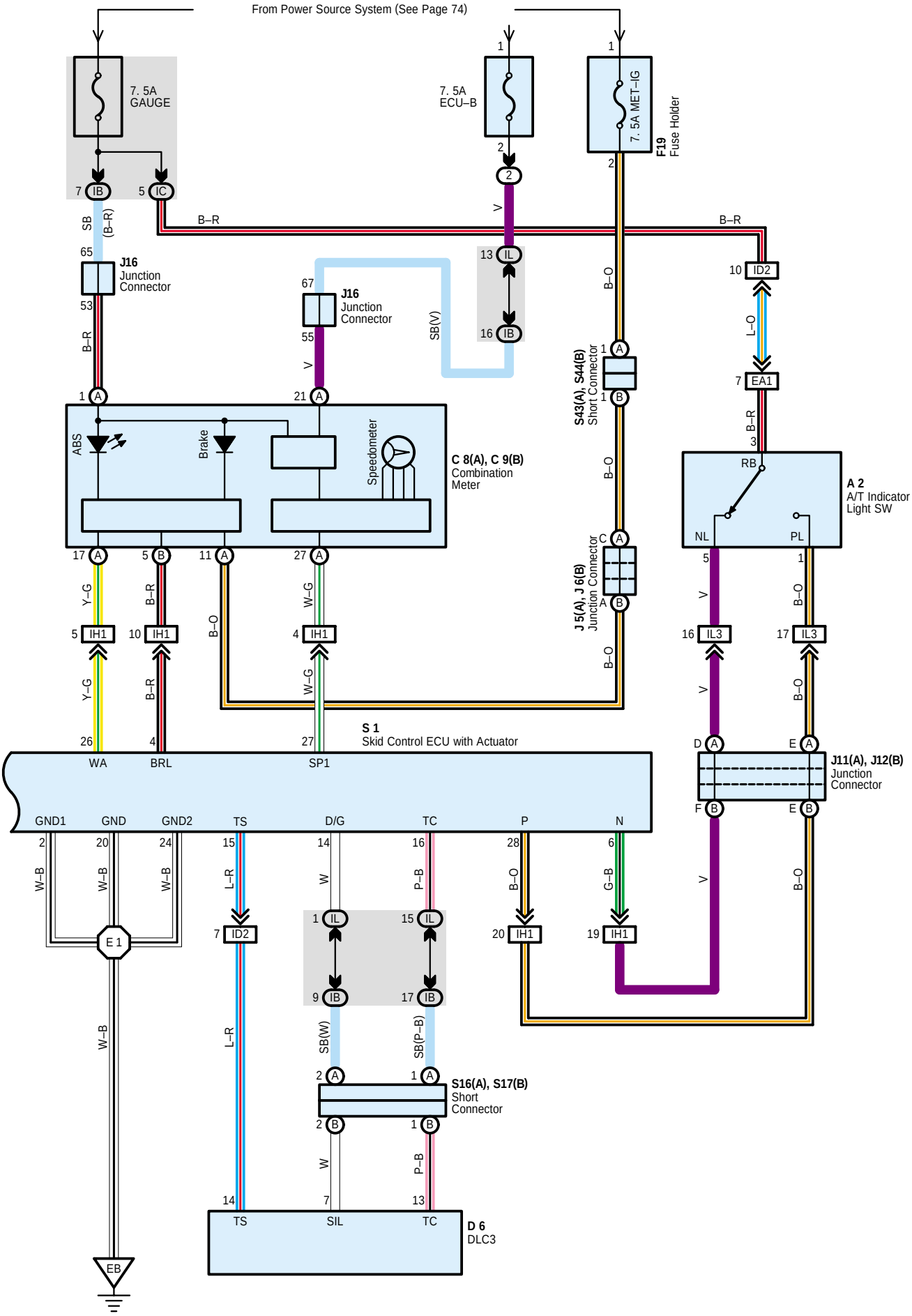
Connector Joining Wire Harness and Wire Harness



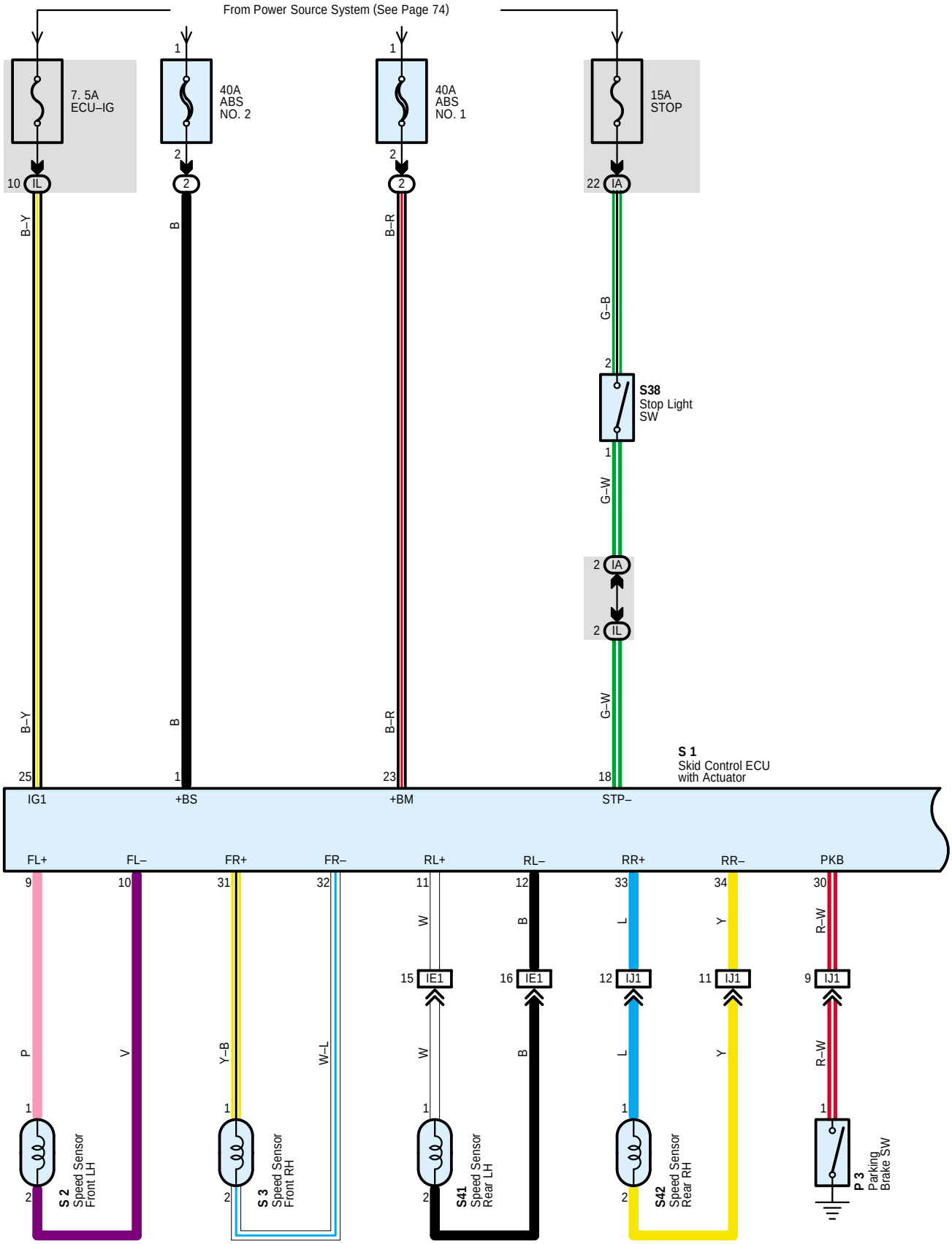
Code	Joining Wire Harness and Wire Harness (Connector Location)
BA1	Rear Door LH Wire and Floor Wire (Left Center Pillar)
BB1	Rear Door RH Wire and Floor No.2 Wire (Right Center Pillar)
BC1	Back Door No.1 Wire and Floor Wire (Upper Part of Left Quarter Panel)
BC2	
BD1	Roof No.2 Wire and Floor No.2 Wire (Right Quarter Panel)
BE1	Back Door No.1 Wire and Back Door No.2 Wire (Back Door Left)

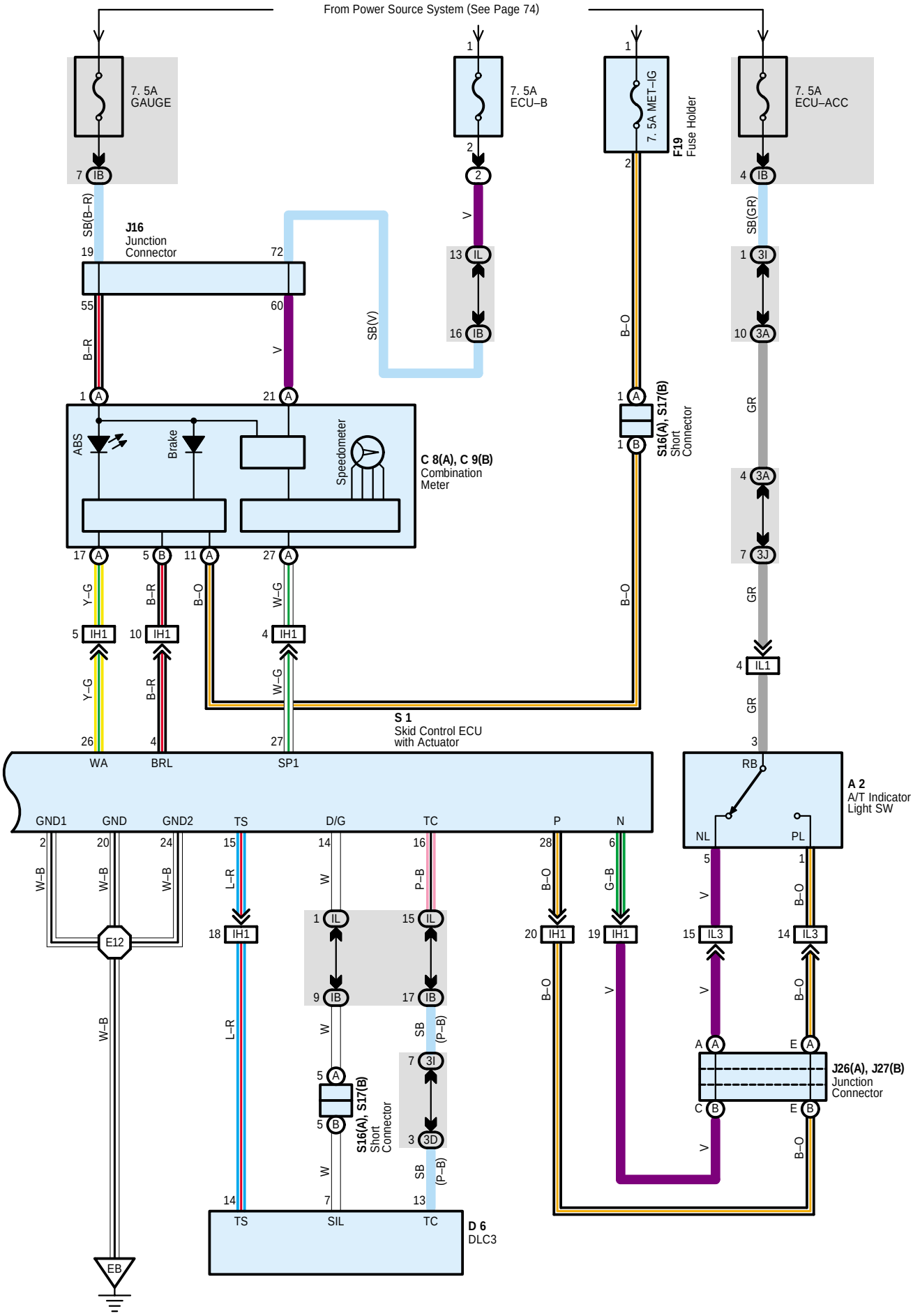
ABS (LHD)


From Power Source System (See Page 74)
7. 5A
ECU–IG
40A
ABS
NO. 2
40A
ABS
NO. 1
15A
STOP
10 IL
22 IA
B–Y
B
B–R
G–B
J23(A), J24(B)
Junction
Connector
S38
Stop Light
SW
G–W
J31
Junction
Connector
S 1
Skid Control ECU
with Actuator
25 IG1
1 +BS
23 +BM
18 STP–
FL+
FL–
FR+
FR–
RL+
RL–
RR+
RR–
PKB
P
V
Y–B
W–L
W
B
L
Y
R–W
15 IE1
16 IE1
12 IJ1
11 IJ1
9 IJ1
S 2
Speed Sensor
Front LH
S 3
Speed Sensor
Front RH
S41
Speed Sensor
Rear LH
S42
Speed Sensor
Rear RH
P 3
Parking
Brake SW

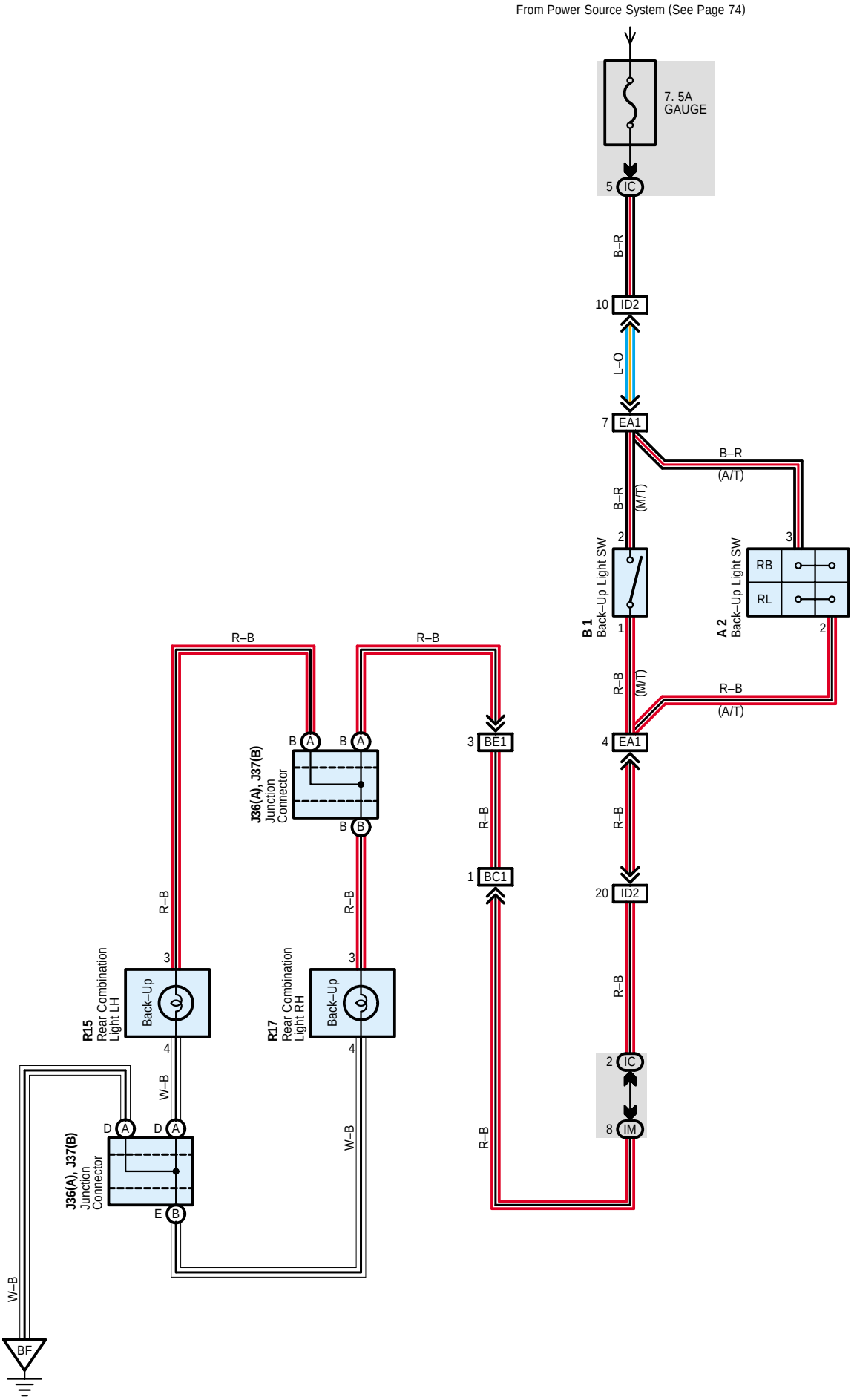

From Power Source System (See Page 74)
7. 5A GAUGE
7. 5A ECU–B
7. 5A MET–IG
F19 Fuse Holder
J16 Junction Connector
J16 Junction Connector
S43(A), S44(B) Short Connector
C 8(A), C 9(B) Combination Meter
ABS
Brake
Speedometer
A 2 A/T Indicator Light SW
J 5(A), J 6(B) Junction Connector
S 1 Skid Control ECU with Actuator
J11(A), J12(B) Junction Connector
GND1
GND
GND2
TS
D/G
TC
P
N
E 1
EB
S16(A), S17(B) Short Connector
D 6 DLC3
SIL

ABS (RHD)

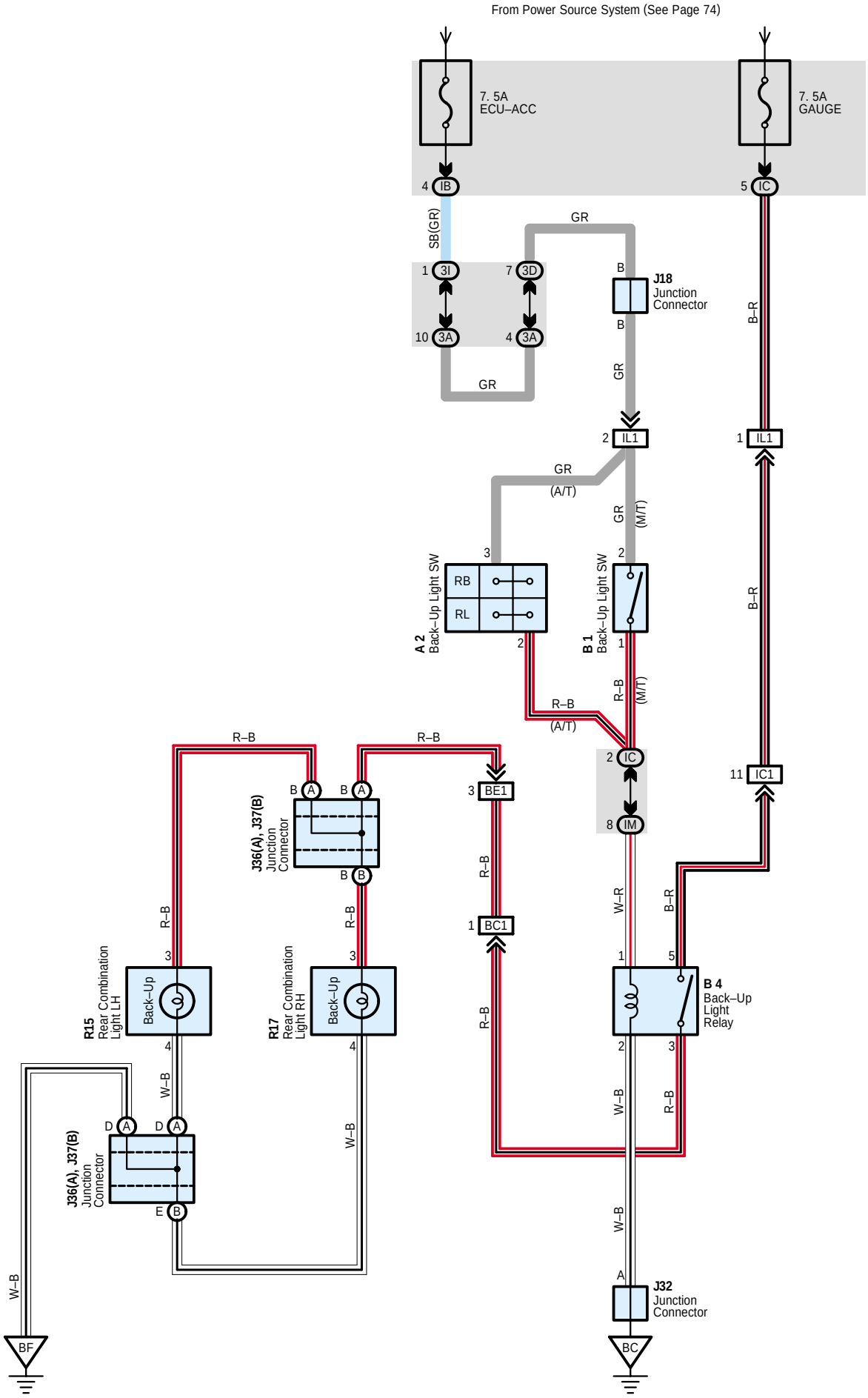

From Power Source System (See Page 74)
7. 5A
ECU–IG
40A
ABS
NO. 2
40A
ABS
NO. 1
15A
STOP
10 IL
22 IA
B–Y
B
B–R
G–B
S38
Stop Light
SW
G–W
2 IA
2 IL
S 1
Skid Control ECU
with Actuator
25 IG1
1 +BS
23 +BM
18 STP–
FL+
FL–
FR+
FR–
RL+
RL–
RR+
RR–
PKB
9
10
31
32
11
12
33
34
30
P
V
Y–B
W–L
W
B
L
Y
R–W
15 IE1
16 IE1
12 IJ1
11 IJ1
9 IJ1
S 2
Speed Sensor
Front LH
S 3
Speed Sensor
Front RH
S41
Speed Sensor
Rear LH
S42
Speed Sensor
Rear RH
P 3
Parking
Brake SW


From Power Source System (See Page 74)
7. 5A GAUGE
7. 5A ECU–B
7. 5A MET–IG
F19 Fuse Holder
7. 5A ECU–ACC
J16 Junction Connector
C 8(A), C 9(B) Combination Meter
ABS
Brake
Speedometer
S16(A), S17(B) Short Connector
S 1 Skid Control ECU with Actuator
A 2 A/T Indicator Light SW
J26(A), J27(B) Junction Connector
D 6 DLC3
E12
EB
GND1
GND
GND2
TS
D/G
TC
P
N
WA
BRL
SP1
SIL
NL
PL
RB
SB(B–R)
SB(V)
SB(GR)
B–R
V
B–O
Y–G
W–G
W–B
L–R
W
P–B
G–B
SB
(P–B)
GR

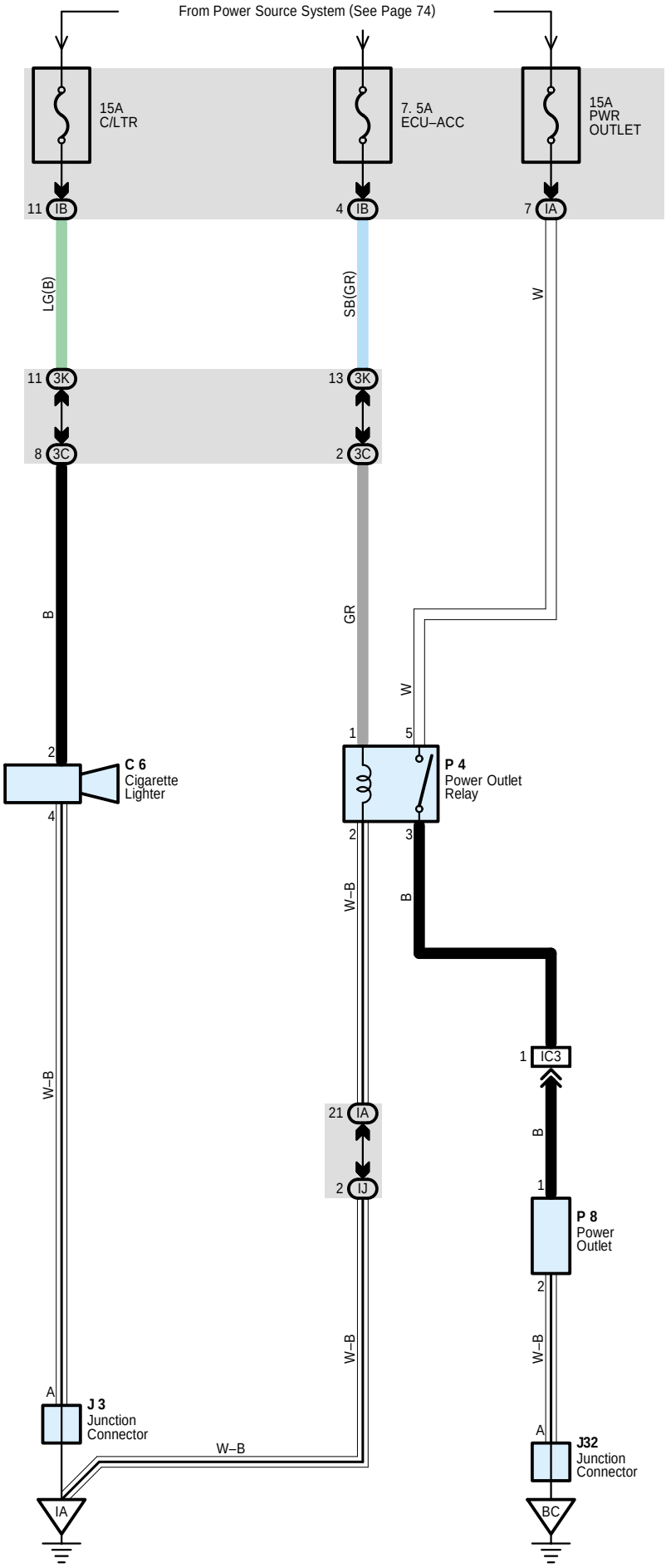
Back–Up Light (LHD)



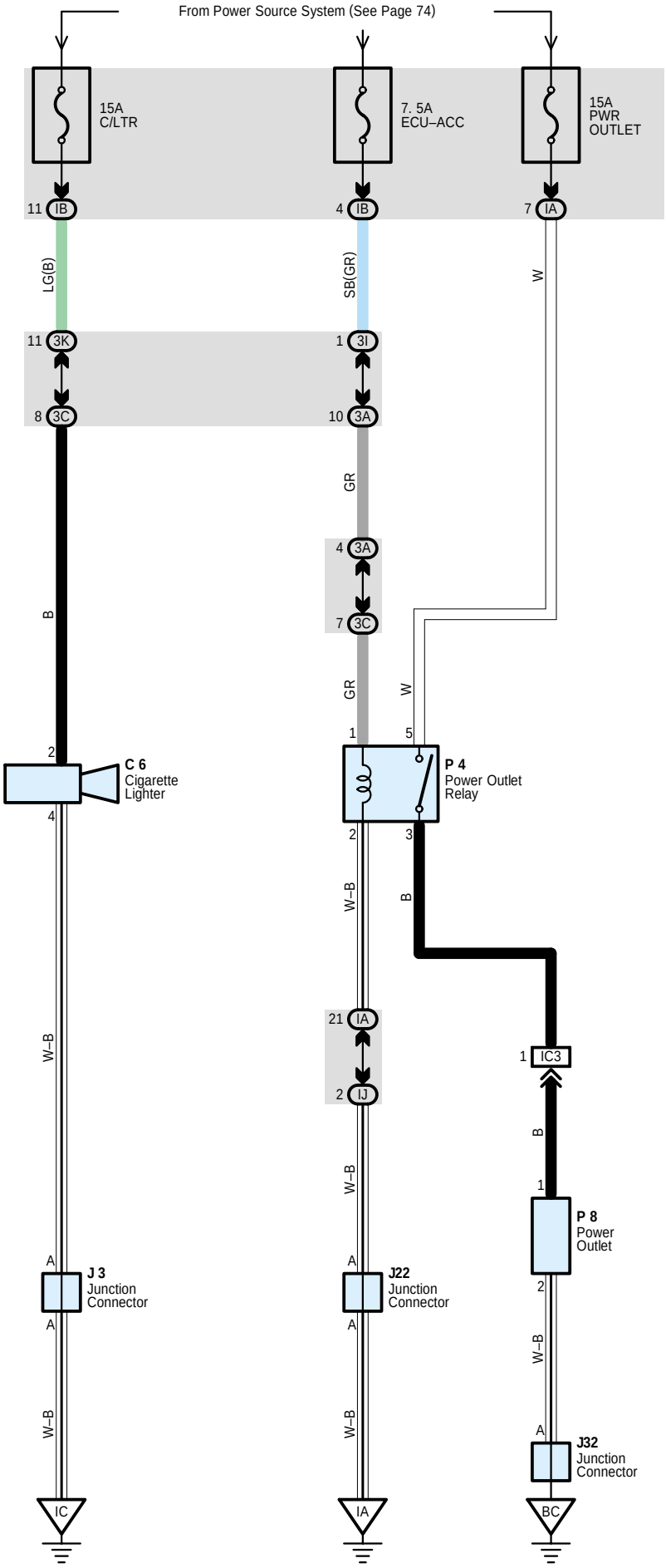
Back–Up Light (RHD)



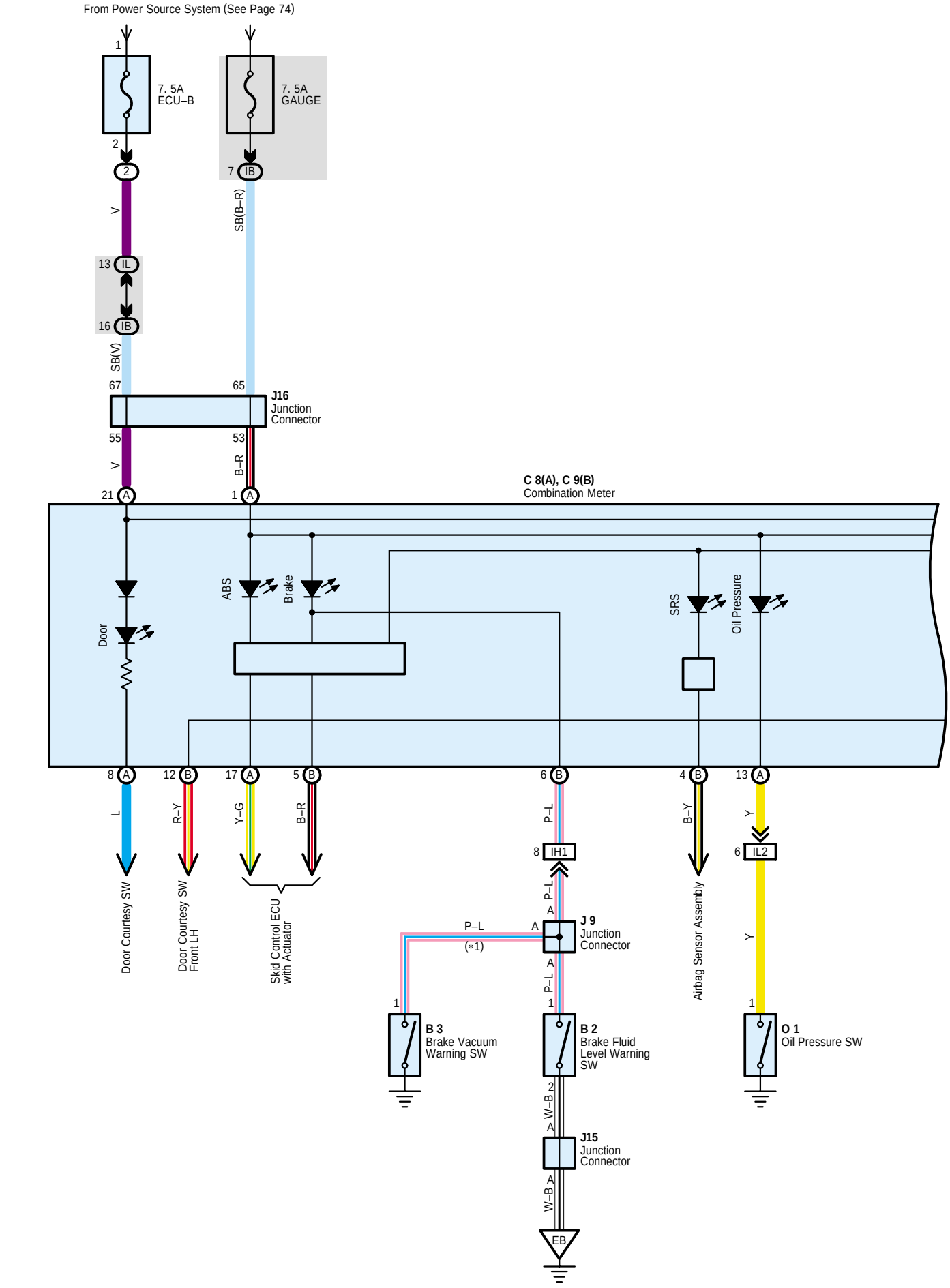
Cigarette Lighter and Power Outlet (LHD)

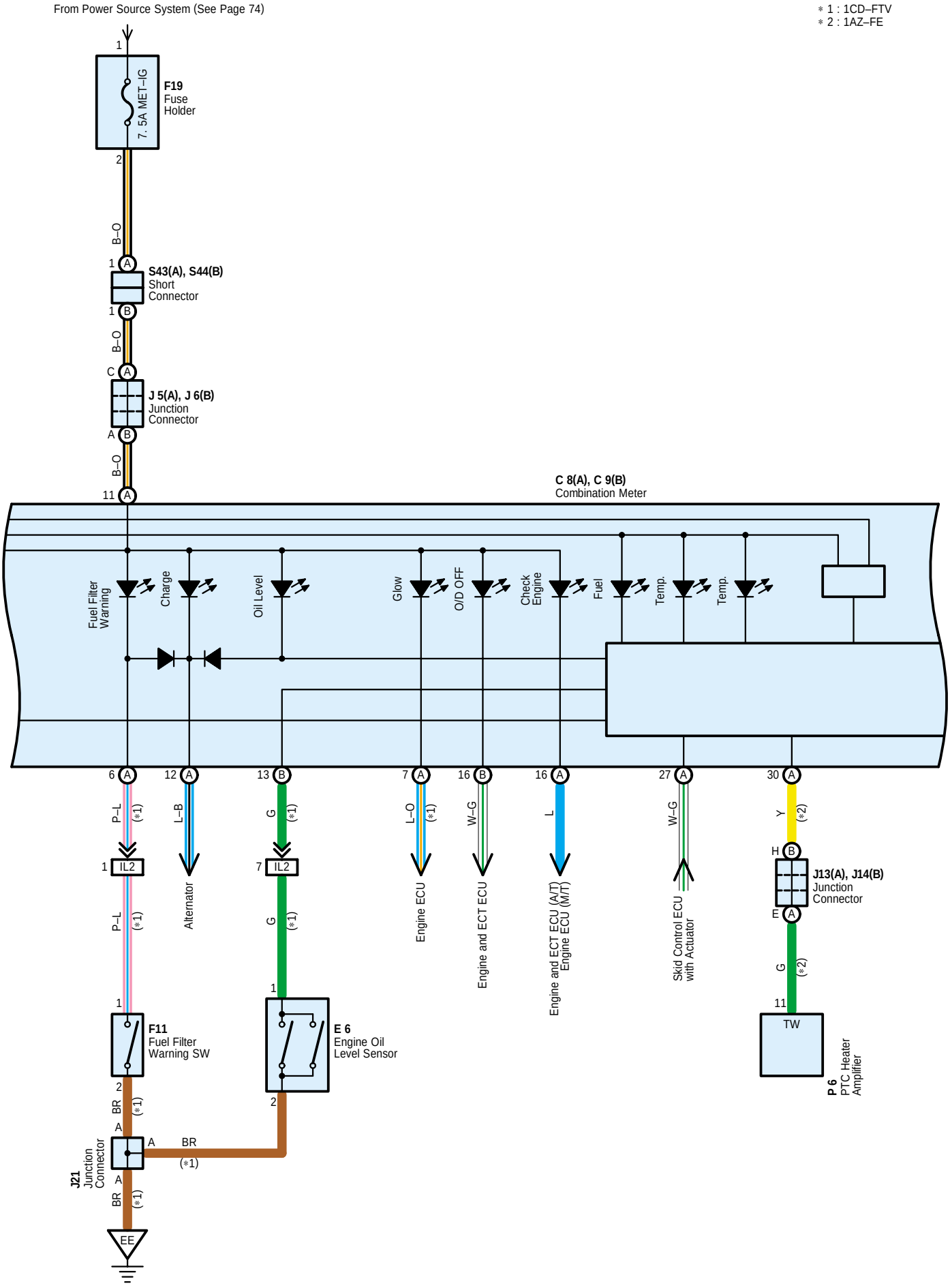


Cigarette Lighter and Power Outlet (RHD)

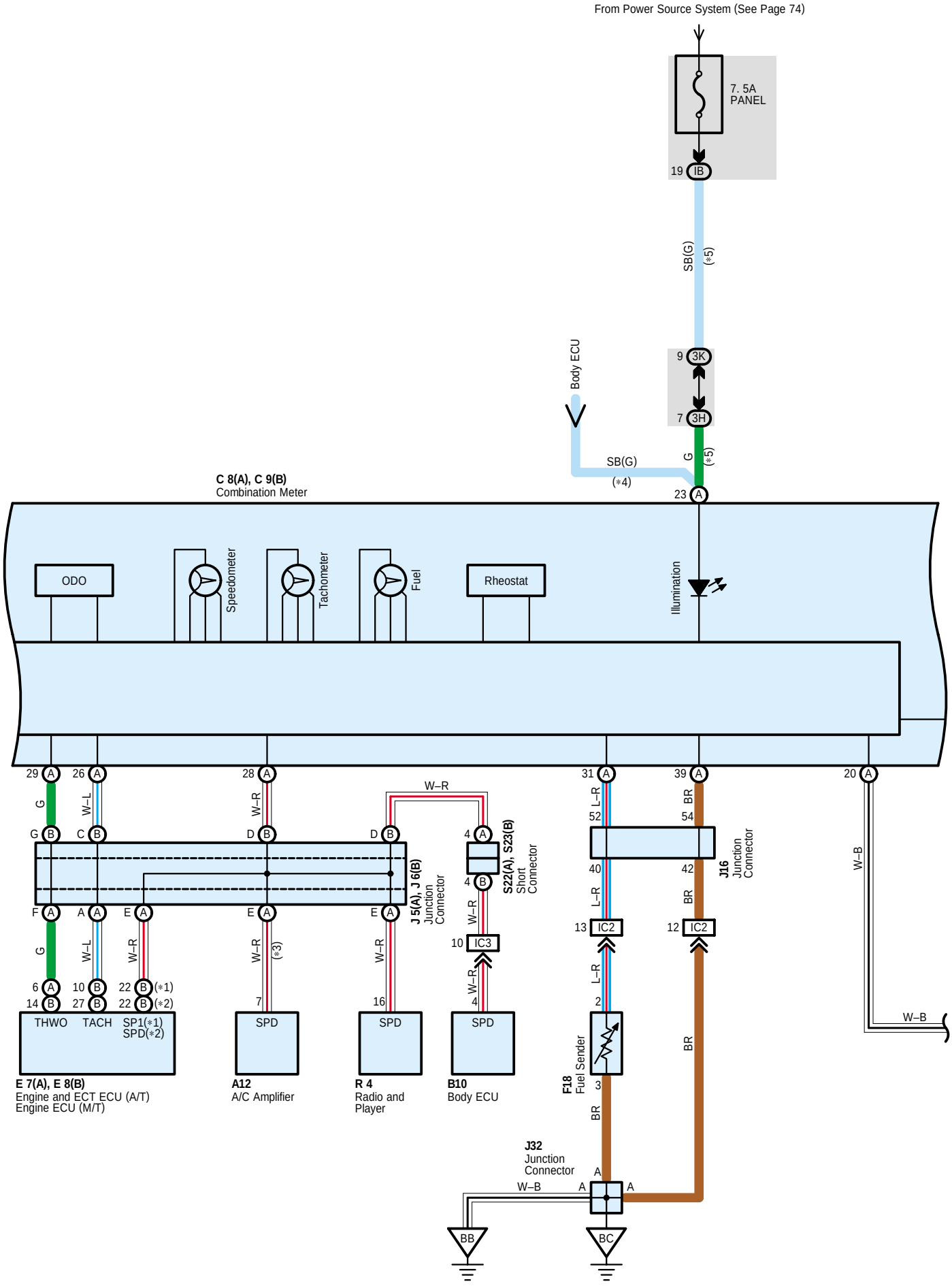


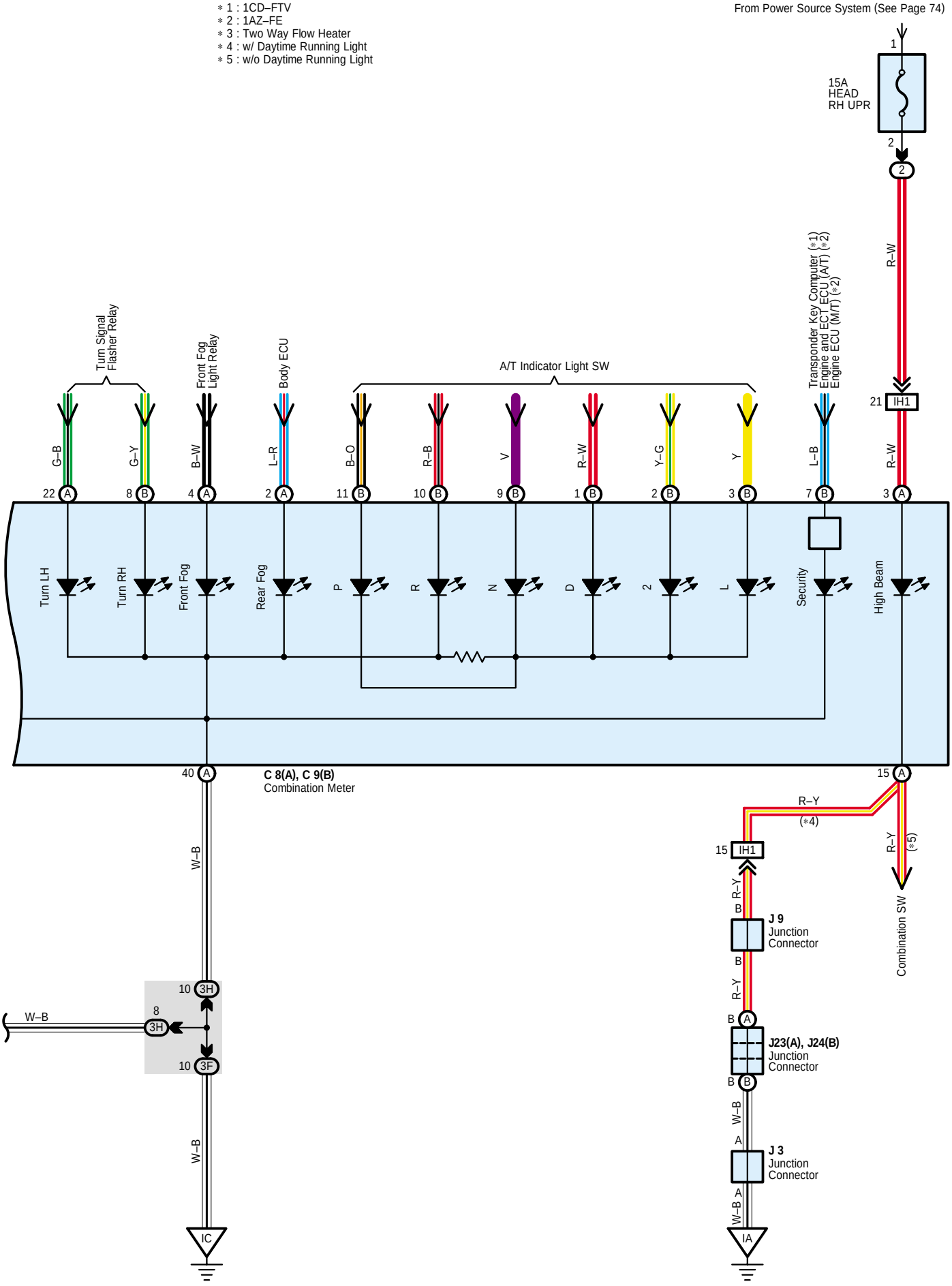
Combination Meter (LHD)



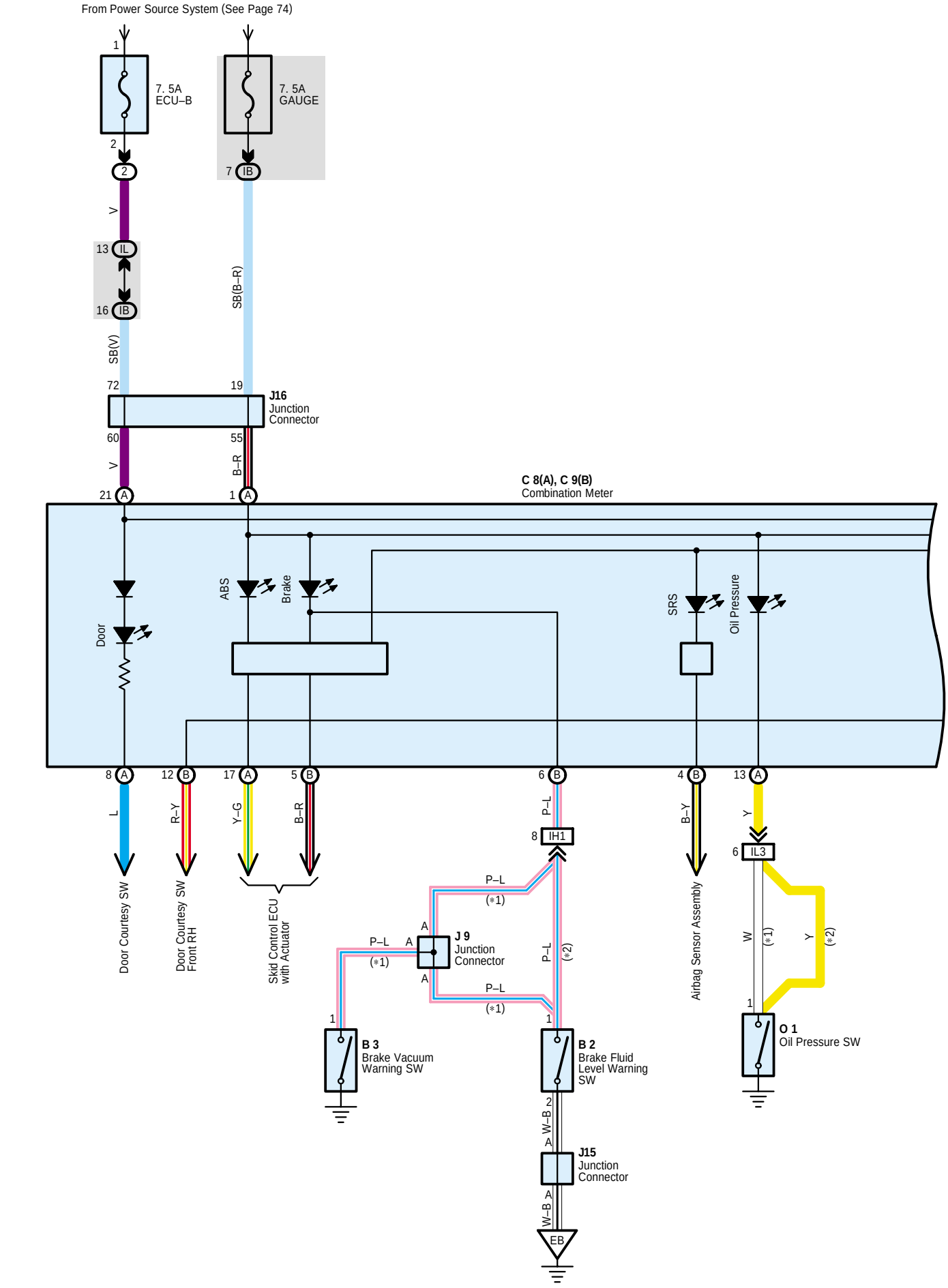

From Power Source System (See Page 74)
* 1 : 1CD–FTV
* 2 : 1AZ–FE
F19
Fuse
Holder
7. 5A MET–IG
S43(A), S44(B)
Short
Connector
J 5(A), J 6(B)
Junction
Connector
C 8(A), C 9(B)
Combination Meter
Fuel Filter Warning
Charge
Oil Level
Glow
O/D OFF
Check Engine
Fuel
Temp.
Temp.
B–O
P–L
L–B
G
L–O
W–G
L
W–G
Y
BR
G
TW
IL2
F11
Fuel Filter
Warning SW
E 6
Engine Oil
Level Sensor
J21
Junction
Connector
J13(A), J14(B)
Junction
Connector
P 6
PTC Heater
Amplifier
Alternator
Engine ECU
Engine and ECT ECU
Engine and ECT ECU (A/T)
Engine ECU (M/T)
Skid Control ECU
with Actuator
EE

Combination Meter (LHD)



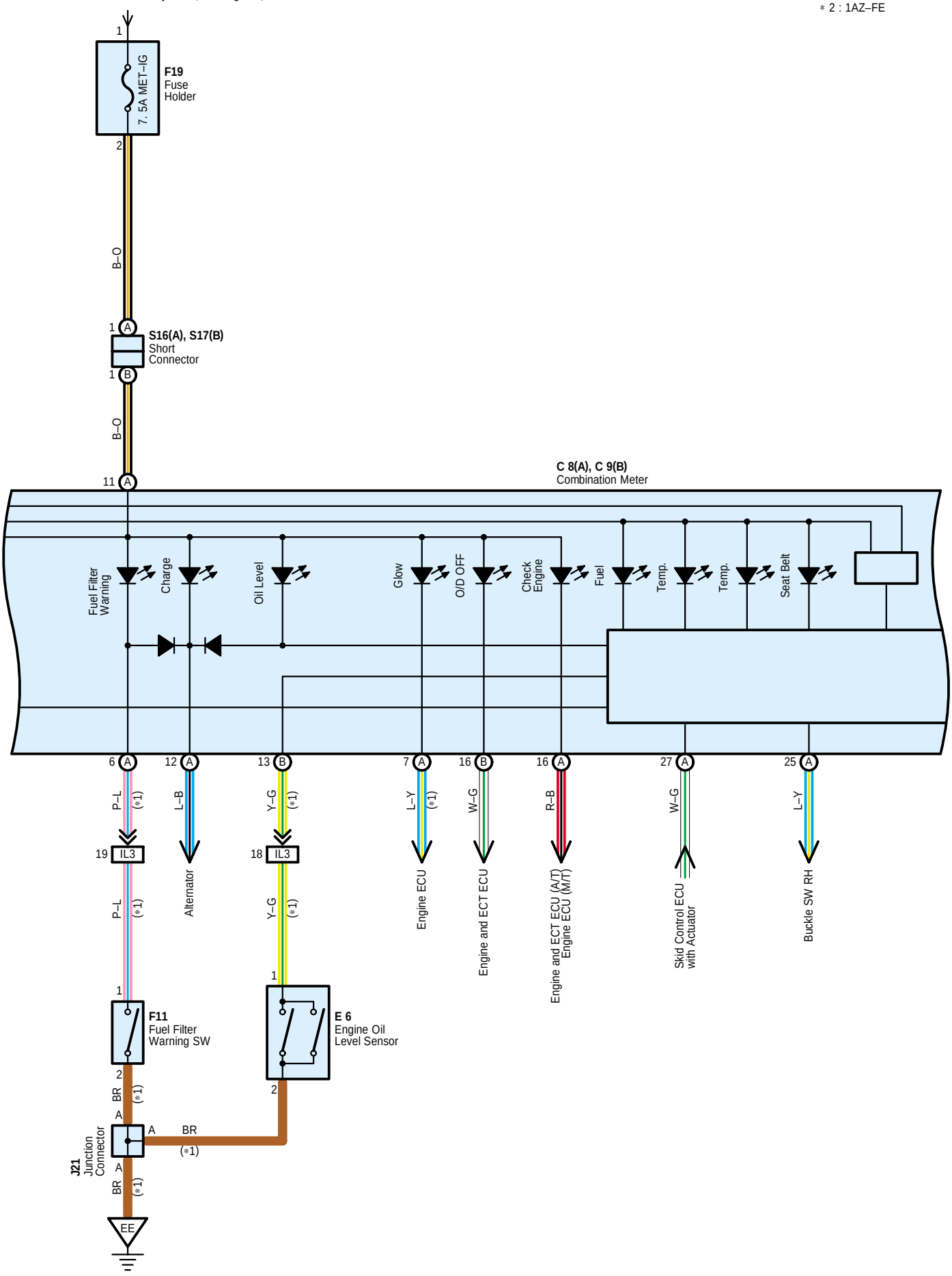

∗1 : 1CD–FTV
∗2 : 1AZ–FE
∗3 : Two Way Flow Heater
∗4 : w/ Daytime Running Light
∗5 : w/o Daytime Running Light
From Power Source System (See Page 74)
15A
HEAD
RH UPR
R–W
Turn Signal
Flasher Relay
Front Fog
Light Relay
Body ECU
A/T Indicator Light SW
Transponder Key Computer (∗1)
Engine and ECT ECU (A/T) (∗2)
Engine ECU (M/T) (∗2)
IH1
G–B
G–Y
B–W
L–R
B–O
R–B
V
R–W
Y–G
Y
L–B
Turn LH
Turn RH
Front Fog
Rear Fog
P
R
N
D
2
L
Security
High Beam
C 8(A), C 9(B)
Combination Meter
W–B
3H
3F
IC
R–Y
(∗4)
(∗5)
J 9
Junction
Connector
J23(A), J24(B)
Junction
Connector
J 3
Junction
Connector
IA
Combination SW

Combination Meter (RHD)

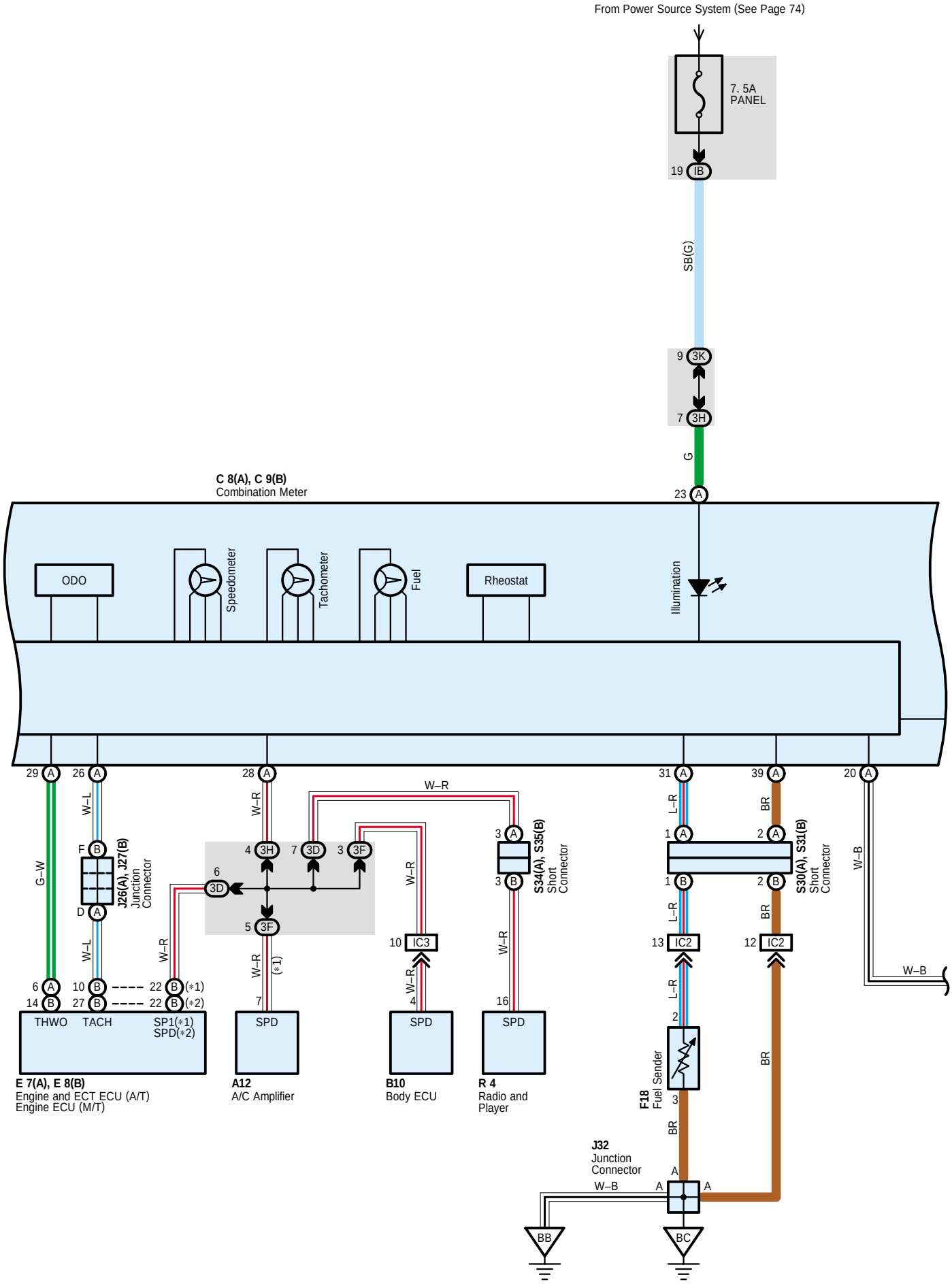


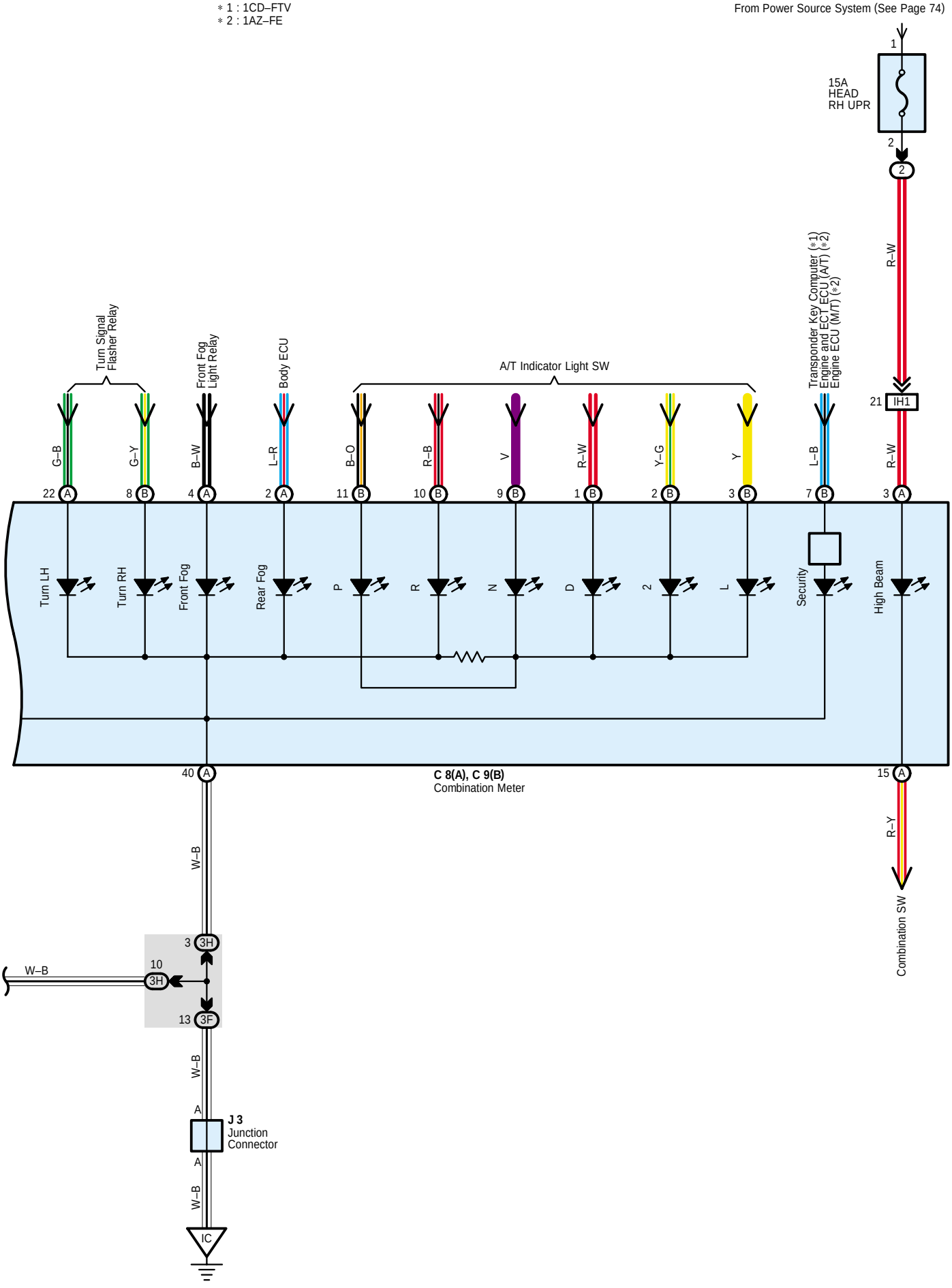
From Power Source System (See Page 74)

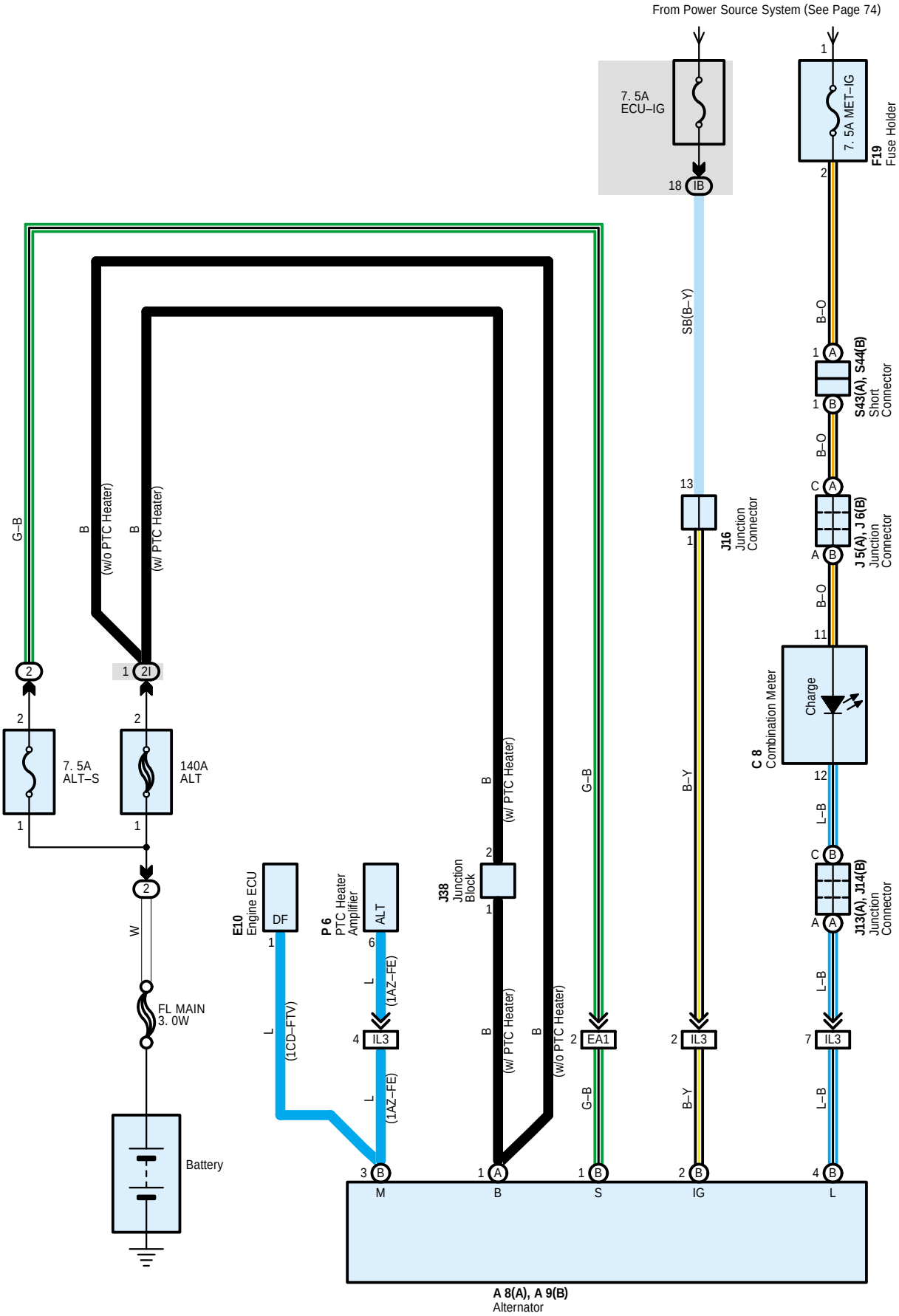
* 1 : 1CD–FTV
* 2 : 1AZ–FE

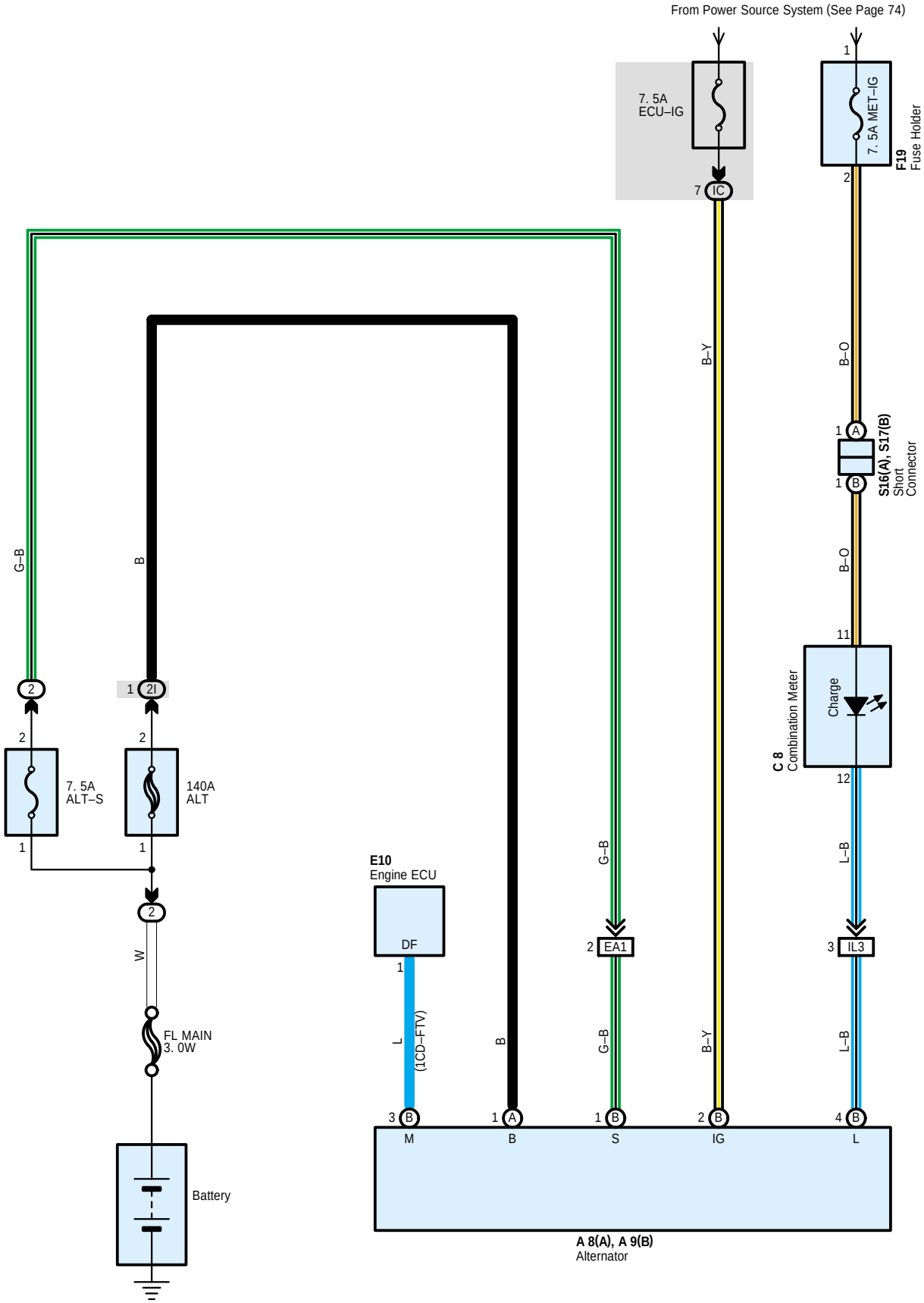


Combination Meter (RHD)

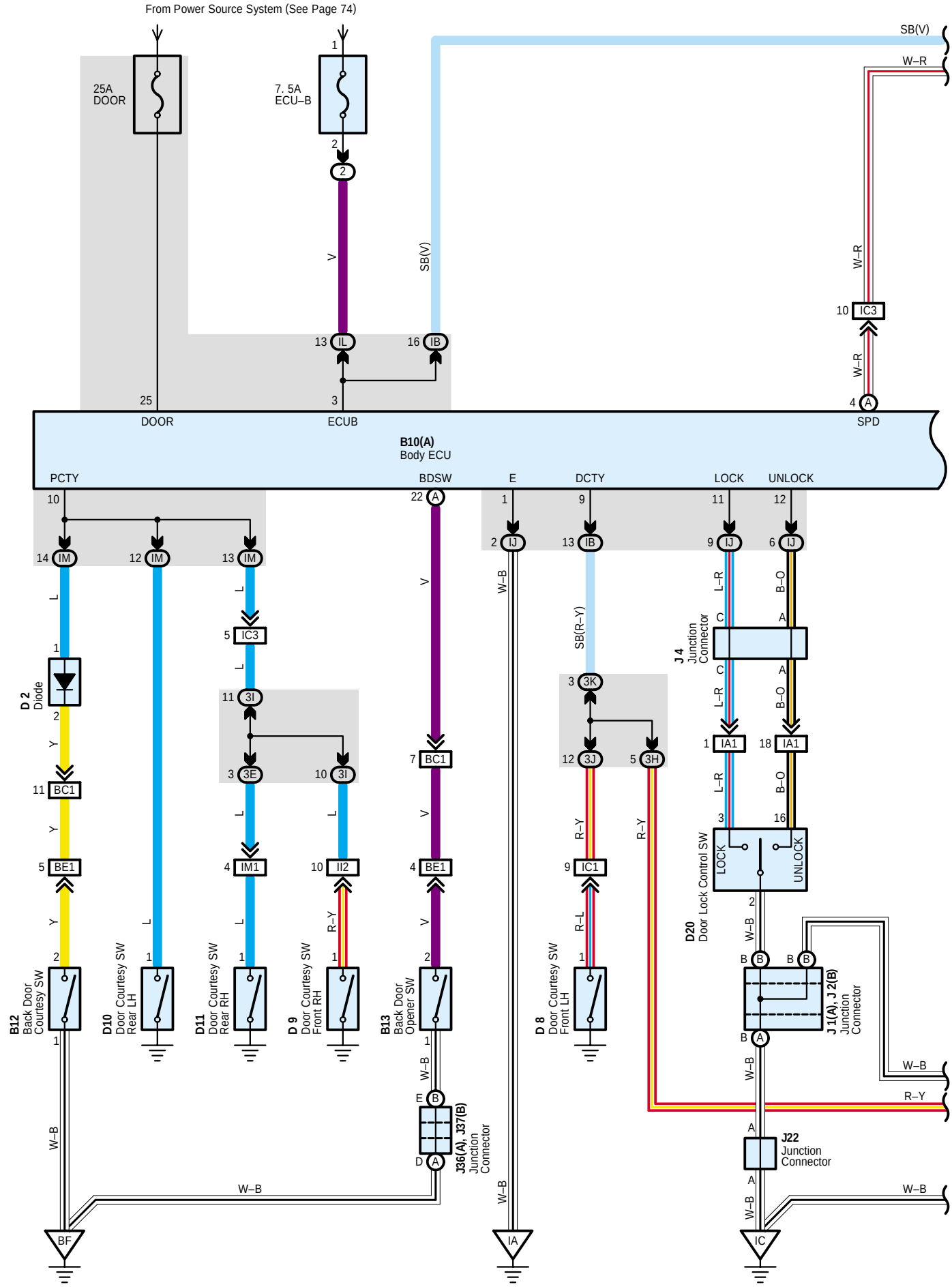


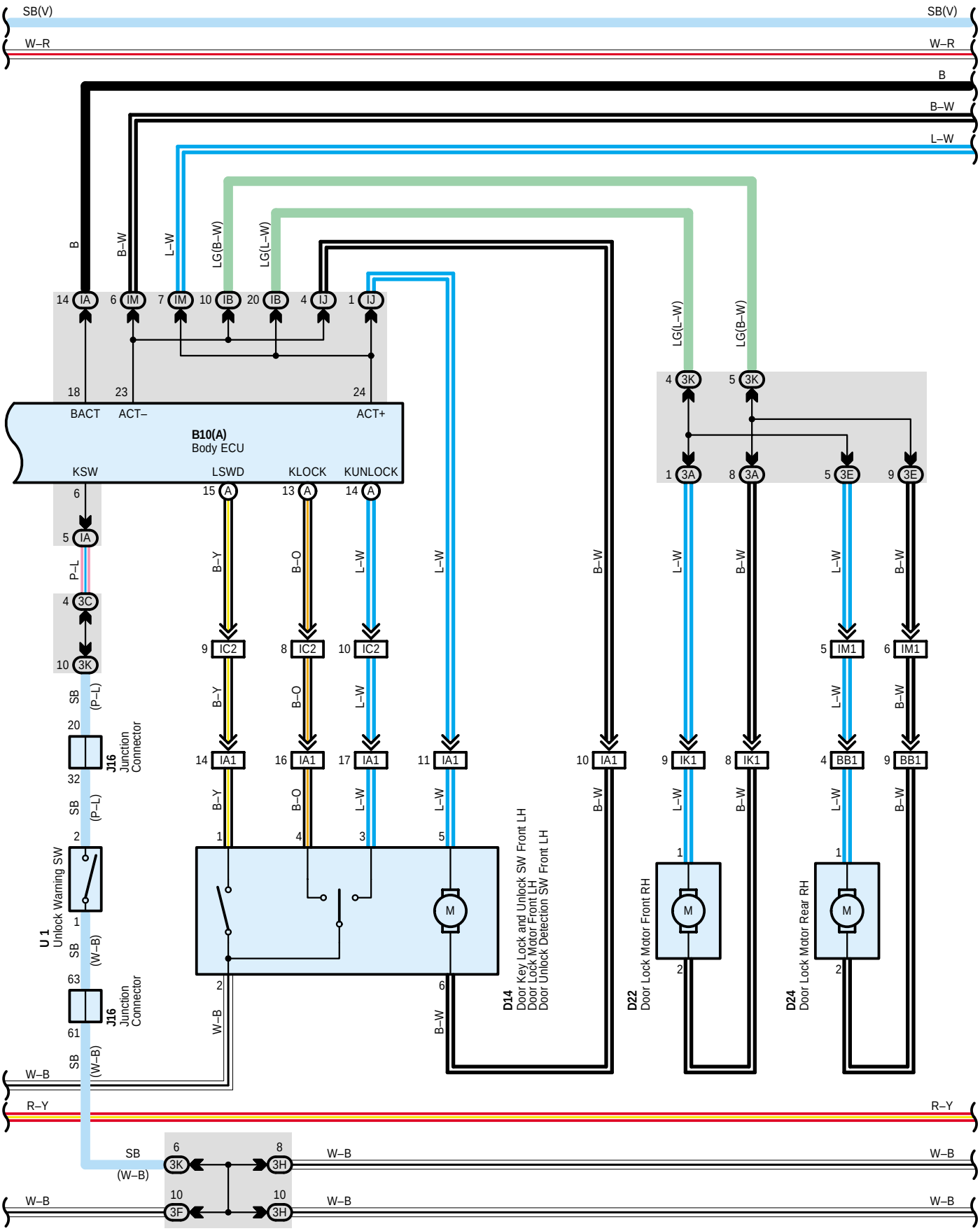

∗1 : 1CD–FTV
∗2 : 1AZ–FE
From Power Source System (See Page 74)
15A
HEAD
RH UPR
1
2
2
R–W
Transponder Key Computer (∗1)
Engine and ECT ECU (A/T) (∗2)
Engine ECU (M/T) (∗2)
21
IH1
R–W
3
A
Turn Signal
Flasher Relay
Front Fog
Light Relay
Body ECU
A/T Indicator Light SW
G–B
22
A
G–Y
8
B
B–W
4
A
L–R
2
A
B–O
11
B
R–B
10
B
V
9
B
R–W
1
B
Y–G
2
B
Y
3
B
L–B
7
B
Turn LH
Turn RH
Front Fog
Rear Fog
P
R
N
D
2
L
Security
High Beam
40
A
C 8(A), C 9(B)
Combination Meter
15
A
R–Y
Combination SW
W–B
3
3H
10
3H
W–B
13
3F
W–B
A
J 3
Junction
Connector
A
W–B
IC


From Power Source System (See Page 74)
7. 5A
ECU–IG
18 IB
SB(B–Y)
13
1
J16
Junction
Connector
1
7. 5A MET–IG
F19
Fuse Holder
2
B–O
1 A
1 B
S43(A), S44(B)
Short
Connector
B–O
C A
A B
J 5(A), J 6(B)
Junction
Connector
B–O
11
C 8
Combination Meter
Charge
12
L–B
C B
A A
J13(A), J14(B)
Junction
Connector
L–B
7 IL3
B–Y
2 IL3
G–B
2 EA1
B
(w/ PTC Heater)
B
(w/o PTC Heater)
G–B
B
(w/ PTC Heater)
B
(w/o PTC Heater)
G–B
2
1 2I
2
2
7. 5A
ALT–S
1
2
140A
ALT
1
2
W
FL MAIN
3. 0W
Battery
E10
Engine ECU
DF
1
L
(1CD–FTV)
P 6
PTC Heater
Amplifier
ALT
6
L
(1AZ–FE)
4 IL3
L
(1AZ–FE)
J38
Junction
Block
2
1
3 B
M
1 A
B
1 B
S
2 B
IG
4 B
L
A 8(A), A 9(B)
Alternator

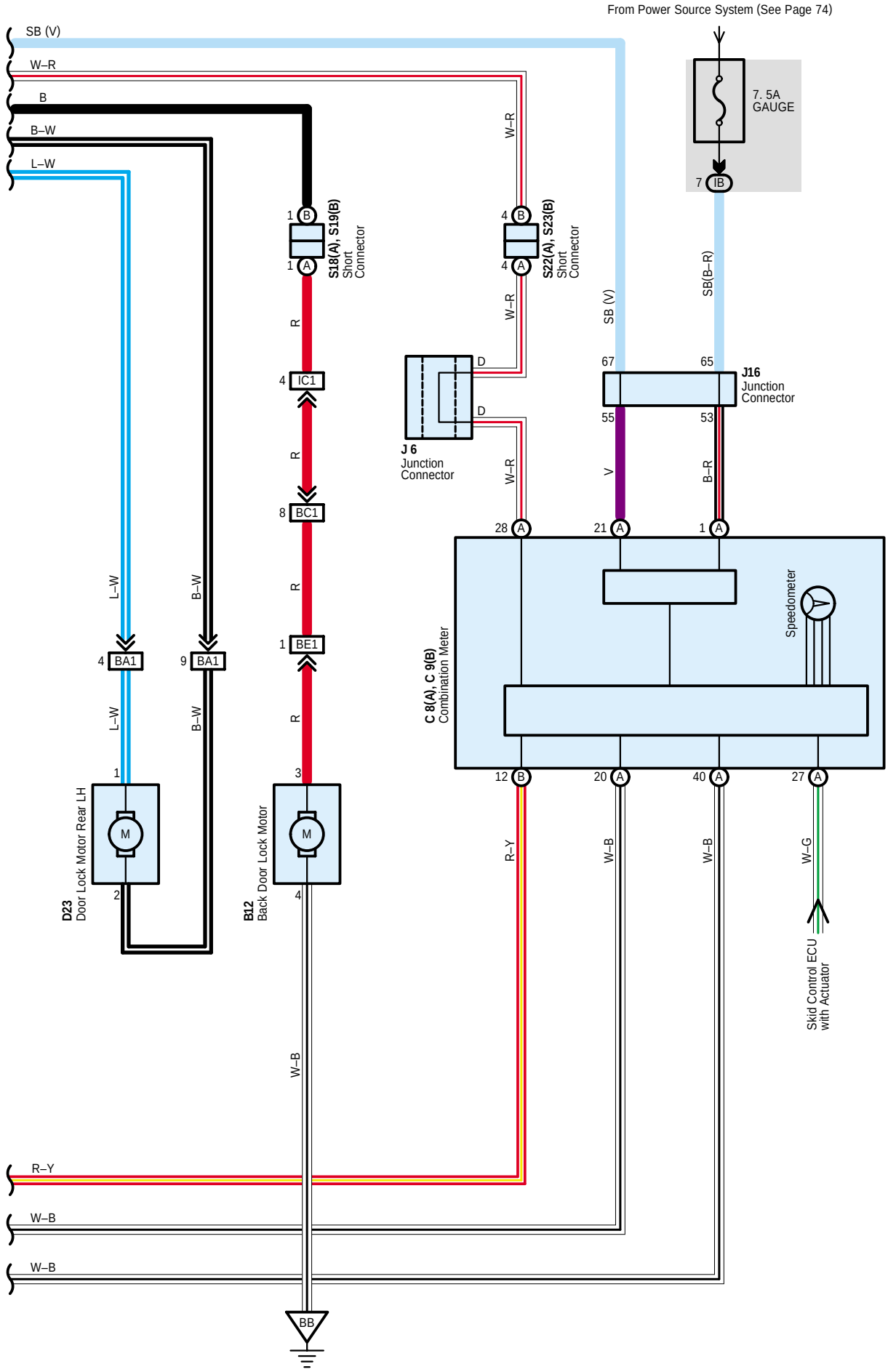

From Power Source System (See Page 74)
7. 5A
ECU–IG
7
IC
B–Y
1
7. 5A MET–IG
F19
Fuse Holder
2
B–O
1
A
1
B
S16(A), S17(B)
Short
Connector
B–O
11
Charge
C 8
Combination Meter
12
L–B
3
IL3
L–B
4
B
L
G–B
2
EA1
G–B
1
B
S
B
1
A
B
B–Y
2
B
IG
L
(1CD–FTV)
3
B
M
DF
1
E10
Engine ECU
A 8(A), A 9(B)
Alternator
G–B
2
2
7. 5A
ALT–S
1
B
1
2I
2
140A
ALT
1
2
W
FL MAIN
3. 0W
Battery

Door Lock Control (LHD)

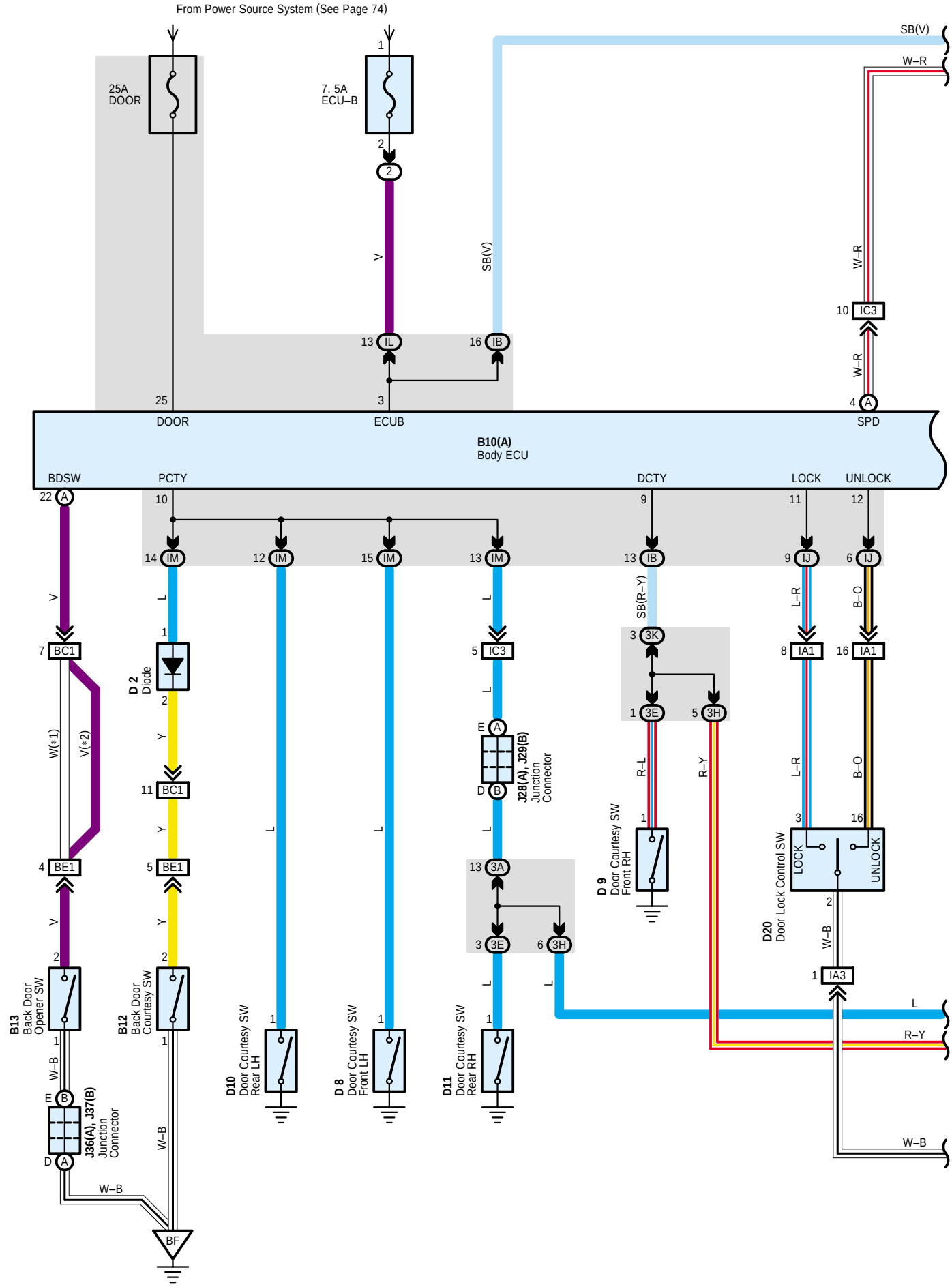


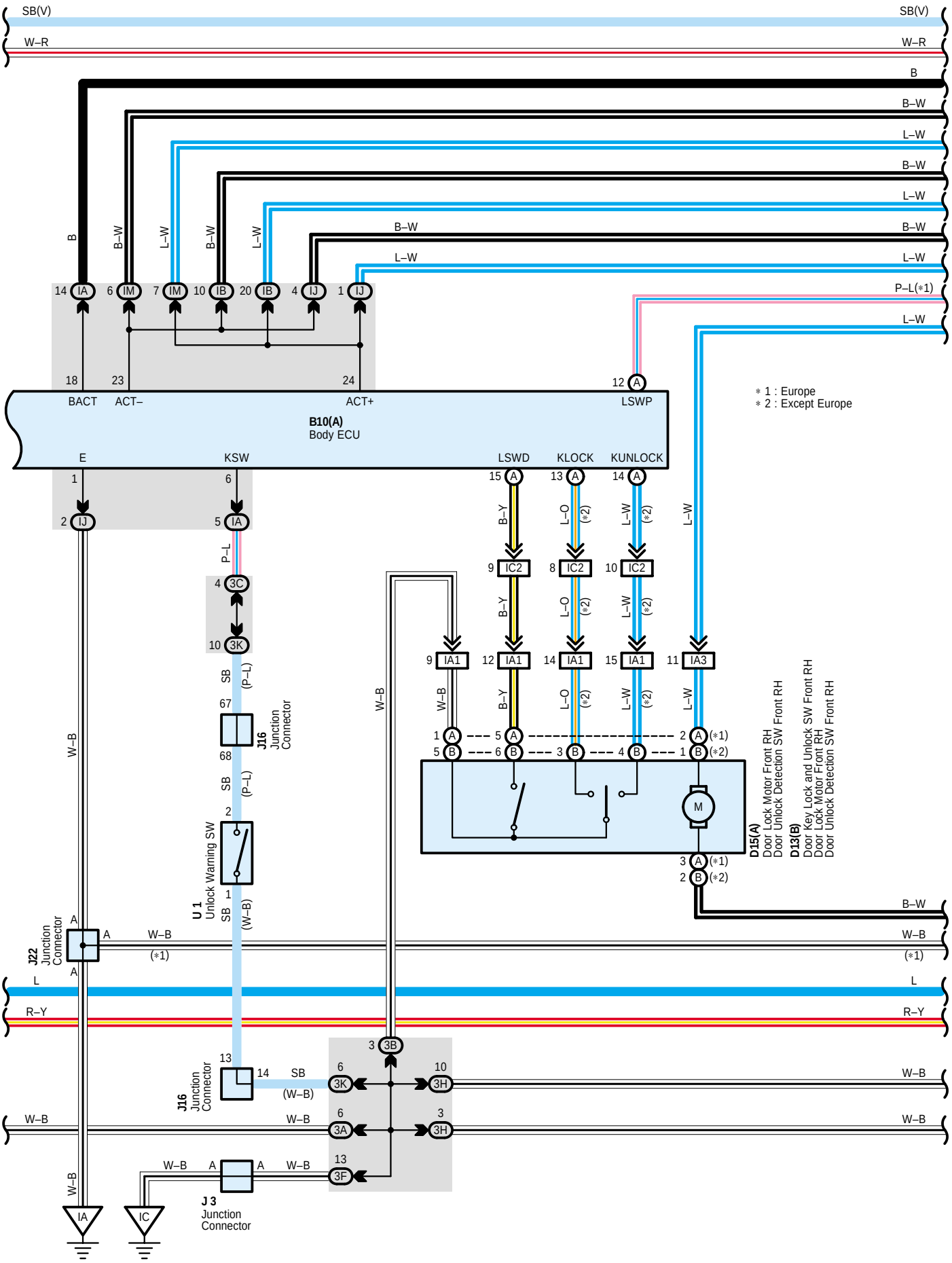

SB(V)
W–R
B
B–W
L–W
LG(B–W)
LG(L–W)
14 IA
6 IM
7 IM
10 IB
20 IB
4 IJ
1 IJ
18 BACT
23 ACT–
24 ACT+
B10(A)
Body ECU
KSW
LSWD
KLOCK
KUNLOCK
6
5 IA
15 A
13 A
14 A
P–L
4 3C
10 3K
SB
(P–L)
20
32
J16
Junction Connector
SB
(P–L)
2
U 1
Unlock Warning SW
1
SB
(W–B)
63
61
J16
Junction Connector
SB
(W–B)
B–Y
B–O
L–W
9 IC2
8 IC2
10 IC2
14 IA1
16 IA1
17 IA1
11 IA1
10 IA1
1
4
3
5
2
6
W–B
B–W
M
D14
Door Key Lock and Unlock SW Front LH
Door Lock Motor Front LH
Door Unlock Detection SW Front LH
4 3K
5 3K
1 3A
8 3A
5 3E
9 3E
9 IK1
8 IK1
4 BB1
9 BB1
5 IM1
6 IM1
D22
Door Lock Motor Front RH
D24
Door Lock Motor Rear RH
R–Y
6 3K
8 3H
10 3F
10 3H

Door Lock Control (LHD)

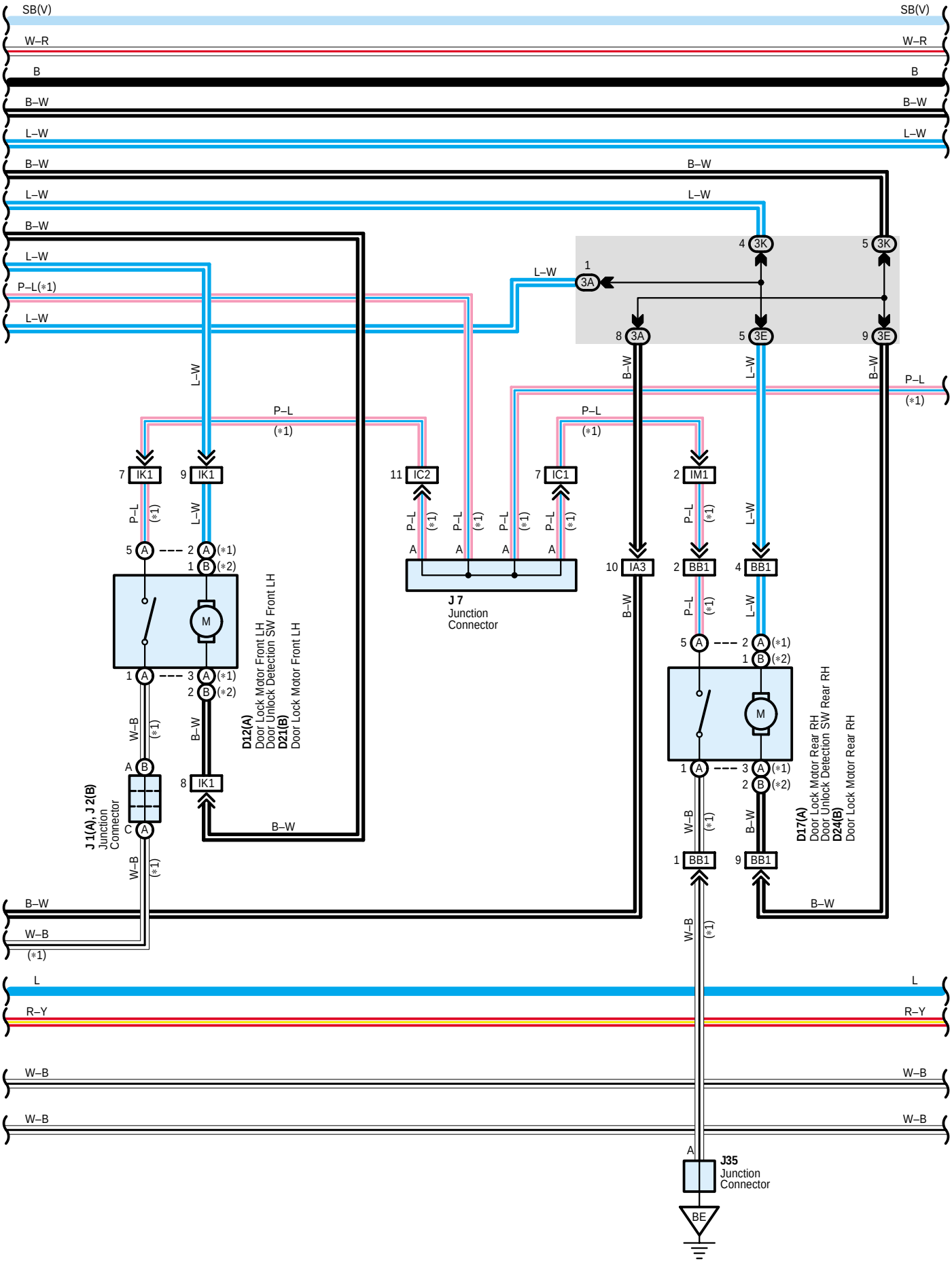


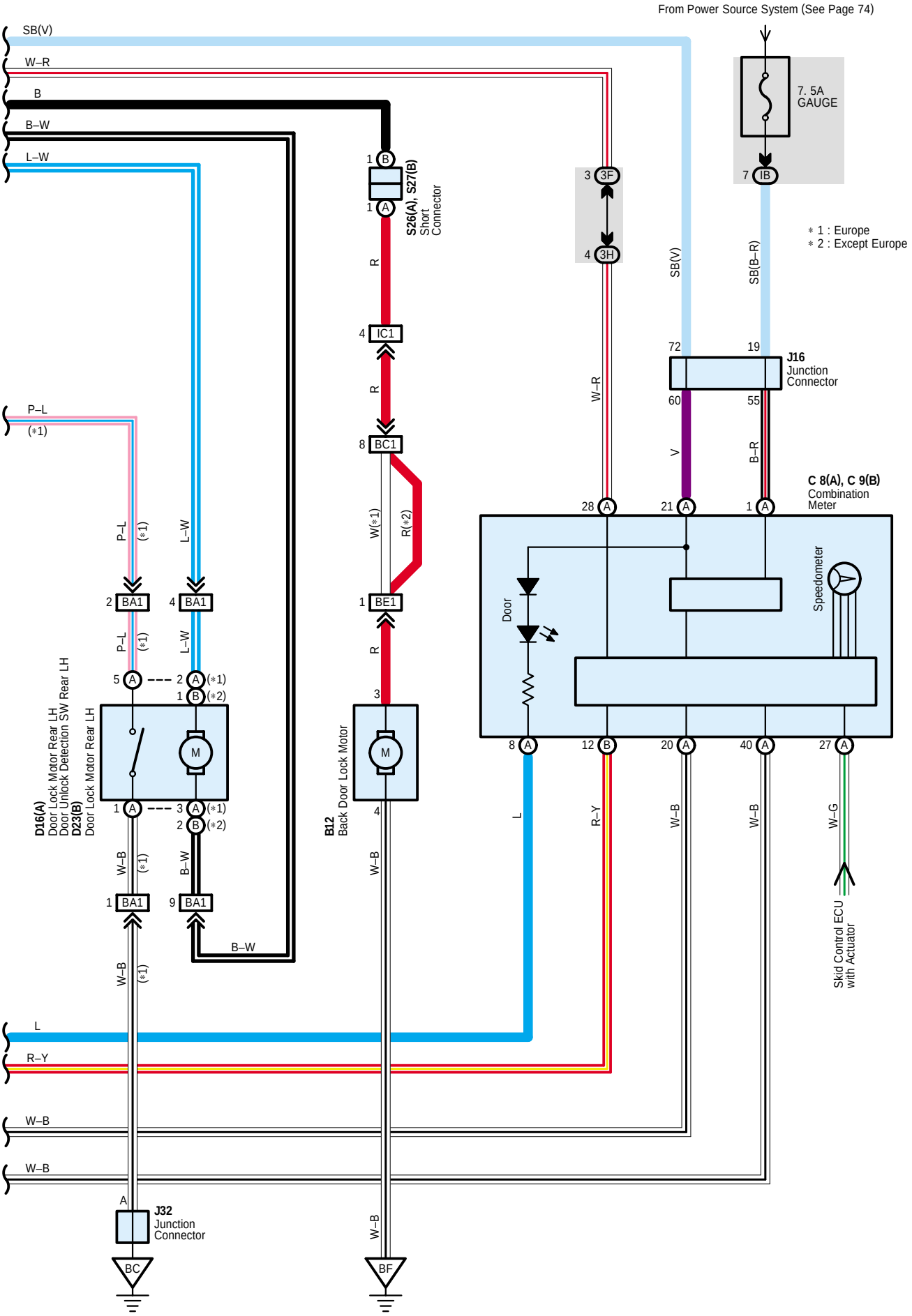
Door Lock Control (RHD)



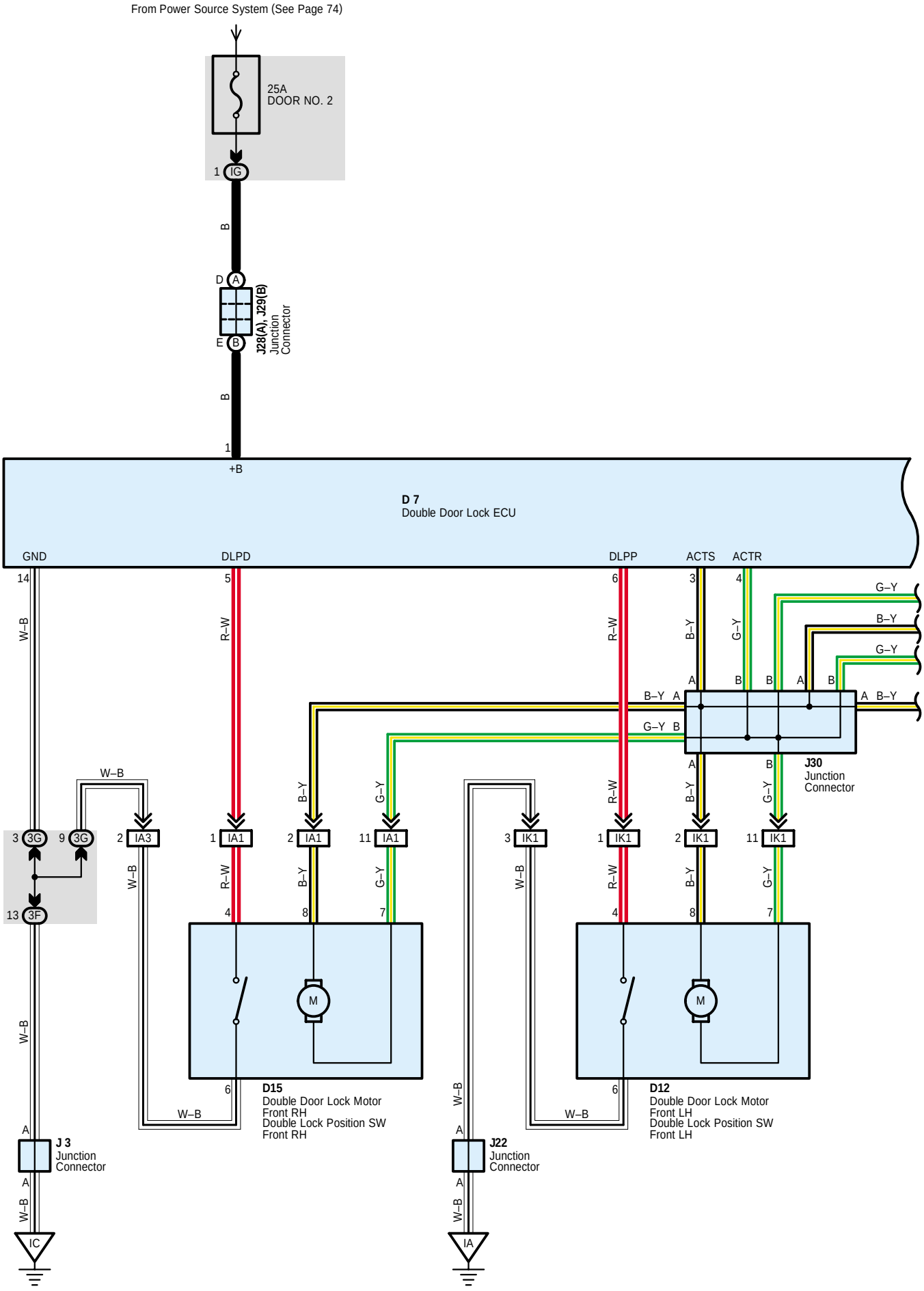

SB(V)
W–R
B
B–W
L–W
P–L(*1)
14 IA
6 IM
7 IM
10 IB
20 IB
4 IJ
1 IJ
18 BACT
23 ACT–
24 ACT+
12 A LSWP
B10(A)
Body ECU
* 1 : Europe
* 2 : Except Europe
E
KSW
LSWD
KLOCK
KUNLOCK
2 IJ
1
6
5 IA
4 3C
10 3K
15 A
13 A
14 A
9 IC2
8 IC2
10 IC2
B–Y
L–O
(*2)
9 IA1
12 IA1
14 IA1
15 IA1
11 IA3
W–B
SB
(P–L)
67
68
J16
Junction Connector
U 1
Unlock Warning SW
1 A (*1)
5 B
6 B
3 B
4 B
2 A (*1)
1 B (*2)
M
3 A (*1)
2 B (*2)
D15(A)
Door Lock Motor Front RH
Door Unlock Detection SW Front RH
D13(B)
Door Key Lock and Unlock SW Front RH
Door Lock Motor Front RH
Door Unlock Detection SW Front RH
J22
Junction Connector
A
(*1)
L
R–Y
3 3B
13
14
6 3K
10 3H
6 3A
3 3H
3F
J 3
Junction Connector
IA
IC

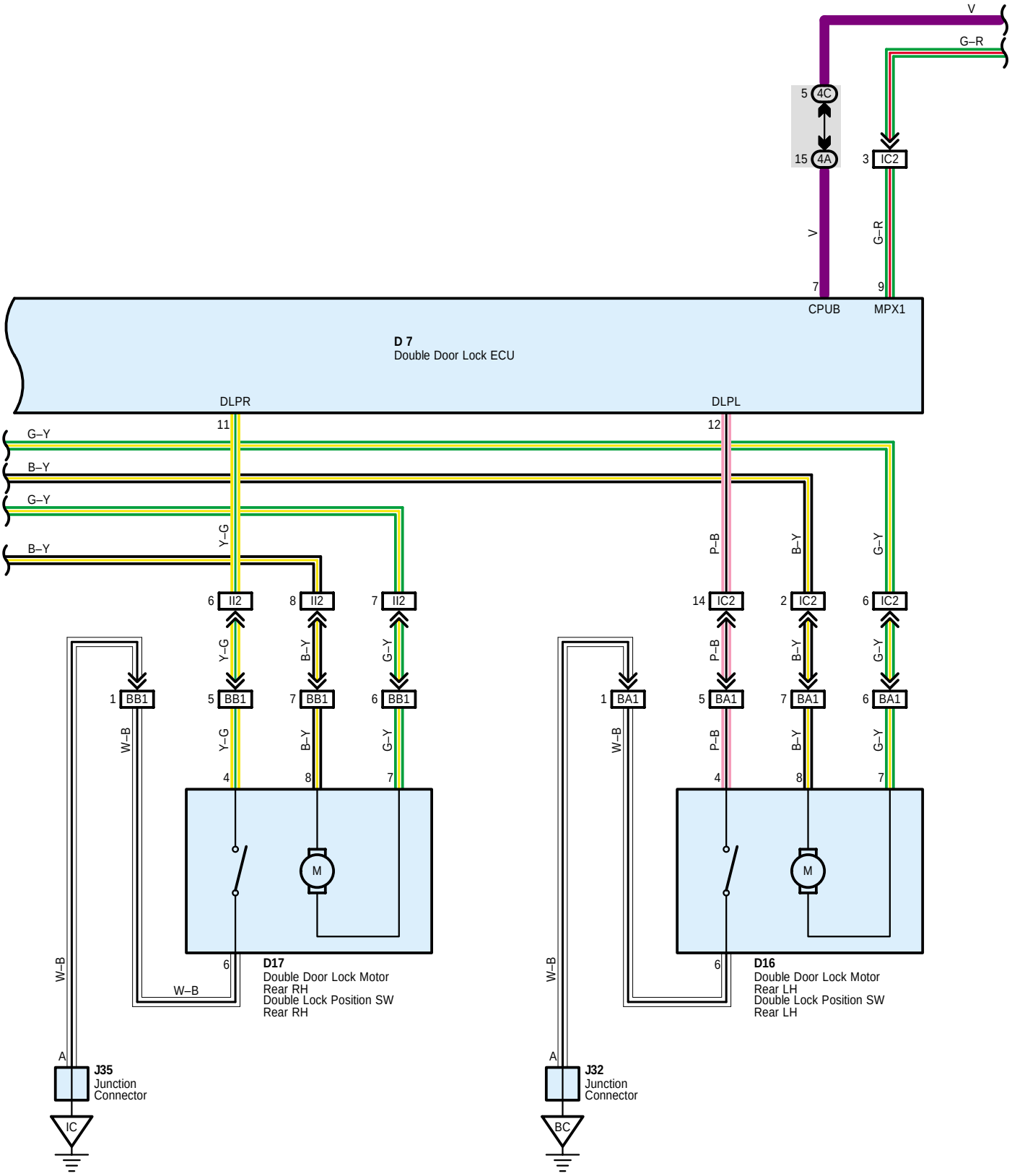
Door Lock Control (RHD)



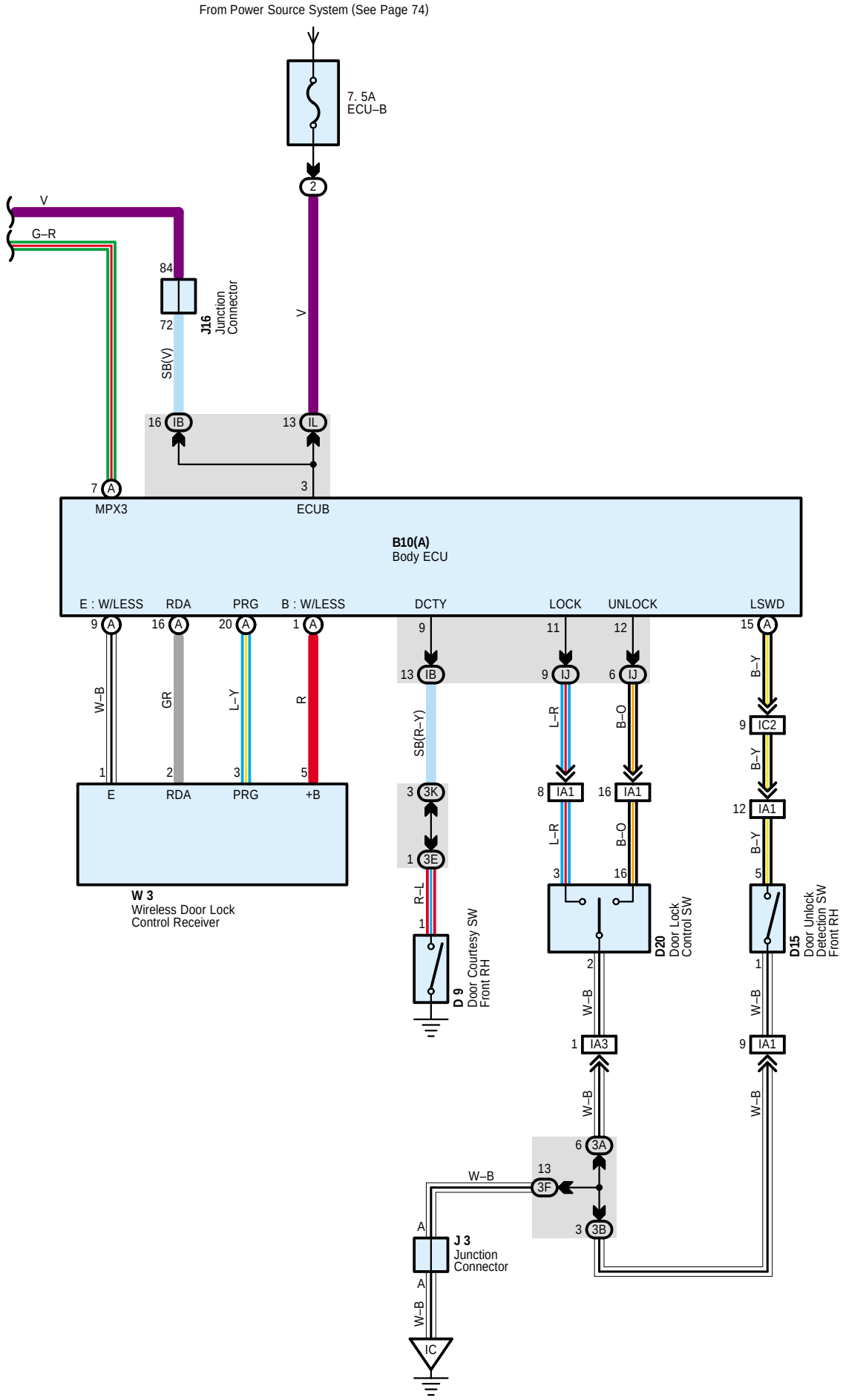

From Power Source System (See Page 74)
SB(V)
W–R
B
B–W
L–W
7. 5A
GAUGE
7 IB
SB(B–R)
SB(V)
3 3F
4 3H
W–R
1 B
1 A
S26(A), S27(B)
Short
Connector
R
4 IC1
R
8 BC1
W(*1)
R(*2)
1 BE1
R
3
B12
Back Door Lock Motor
M
4
W–B
L
R–Y
W–B
W–B
A
J32
Junction
Connector
BC
BF
* 1 : Europe
* 2 : Except Europe
72
19
J16
Junction
Connector
60
55
V
B–R
C 8(A), C 9(B)
Combination
Meter
28 A
21 A
1 A
Door
Speedometer
8 A
12 B
20 A
40 A
27 A
L
R–Y
W–B
W–B
W–G
Skid Control ECU
with Actuator
P–L
(*1)
L–W
2 BA1
4 BA1
P–L
(*1)
L–W
5 A
2 A (*1)
1 B (*2)
D16(A)
Door Lock Motor Rear LH
D23(B)
Door Unlock Detection SW Rear LH
Door Lock Motor Rear LH
M
1 A
3 A (*1)
2 B (*2)
W–B
(*1)
B–W
1 BA1
9 BA1
W–B
(*1)
B–W

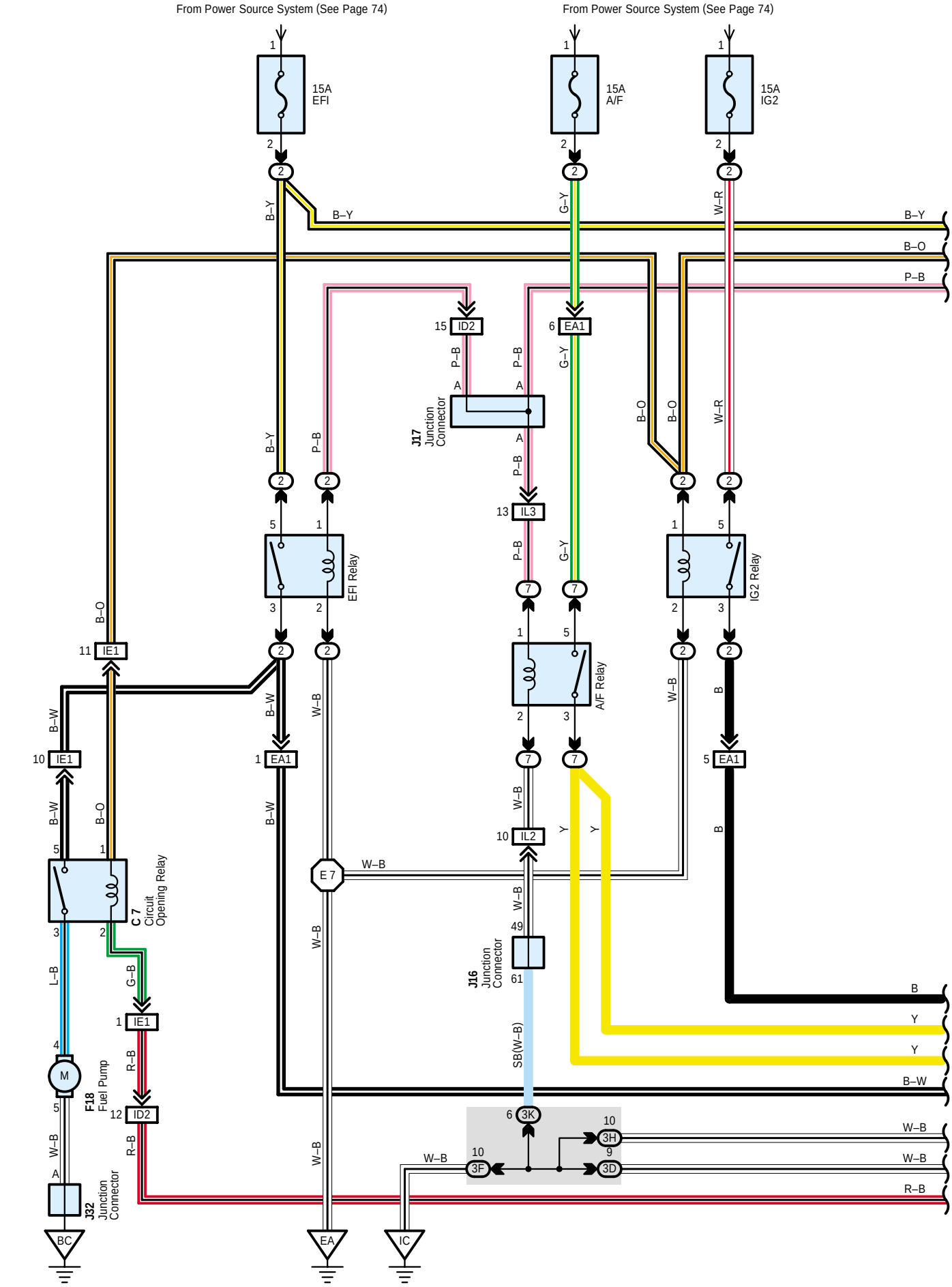
Double Locking (RHD)



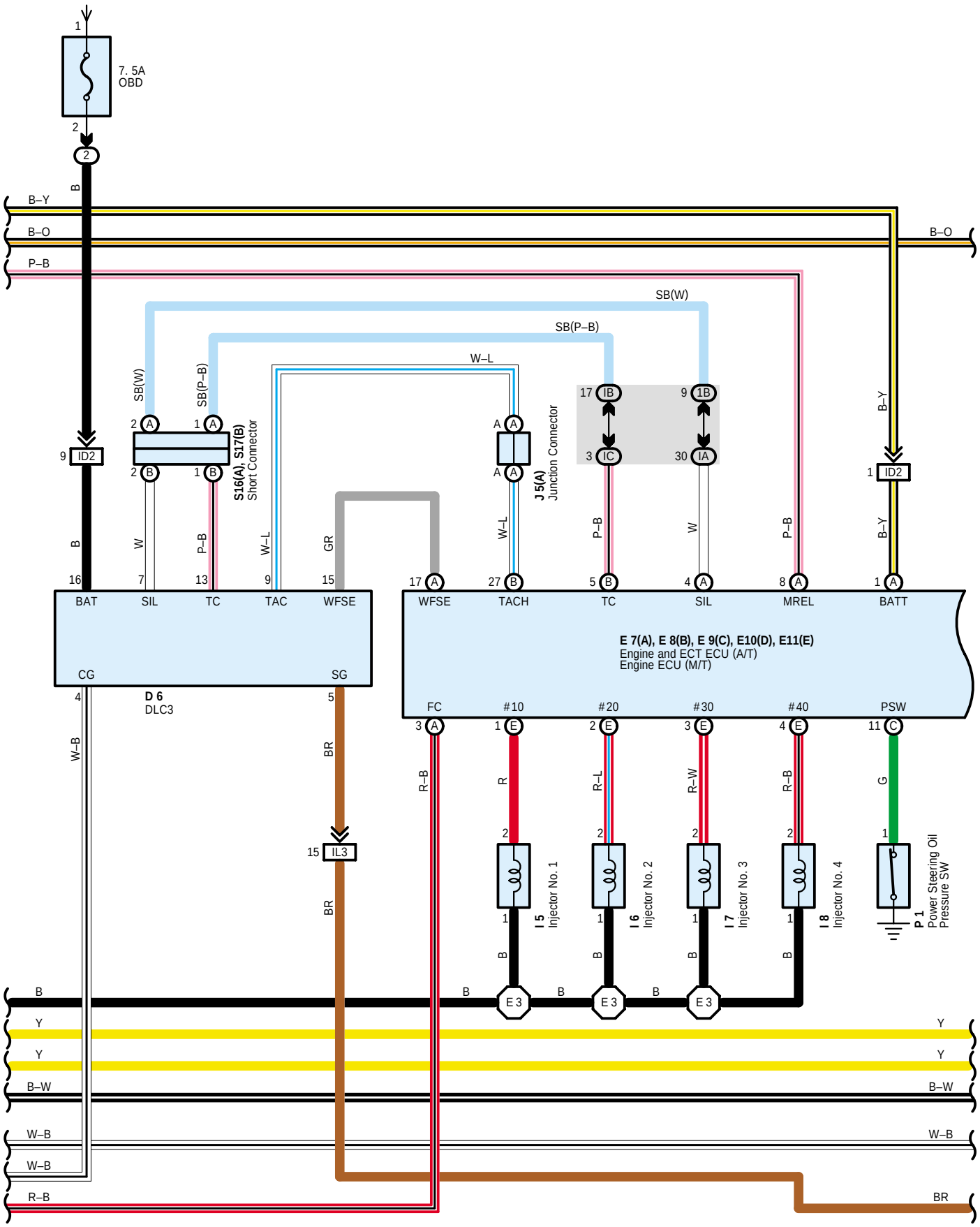

V
G–R
5 4C
15 4A
3 IC2
V
G–R
7
9
CPUB
MPX1
D 7
Double Door Lock ECU
DLPR
DLPL
11
12
G–Y
B–Y
G–Y
B–Y
Y–G
P–B
B–Y
G–Y
6 II2
8 II2
7 II2
14 IC2
2 IC2
6 IC2
Y–G
B–Y
G–Y
P–B
B–Y
G–Y
1 BB1
5 BB1
7 BB1
6 BB1
1 BA1
5 BA1
7 BA1
6 BA1
W–B
Y–G
B–Y
G–Y
W–B
P–B
B–Y
G–Y
4
8
7
4
8
7
M
M
6
6
D17
Double Door Lock Motor
Rear RH
Double Lock Position SW
Rear RH
D16
Double Door Lock Motor
Rear LH
Double Lock Position SW
Rear LH
W–B
W–B
W–B
A
A
J35
Junction
Connector
J32
Junction
Connector
IC
BC

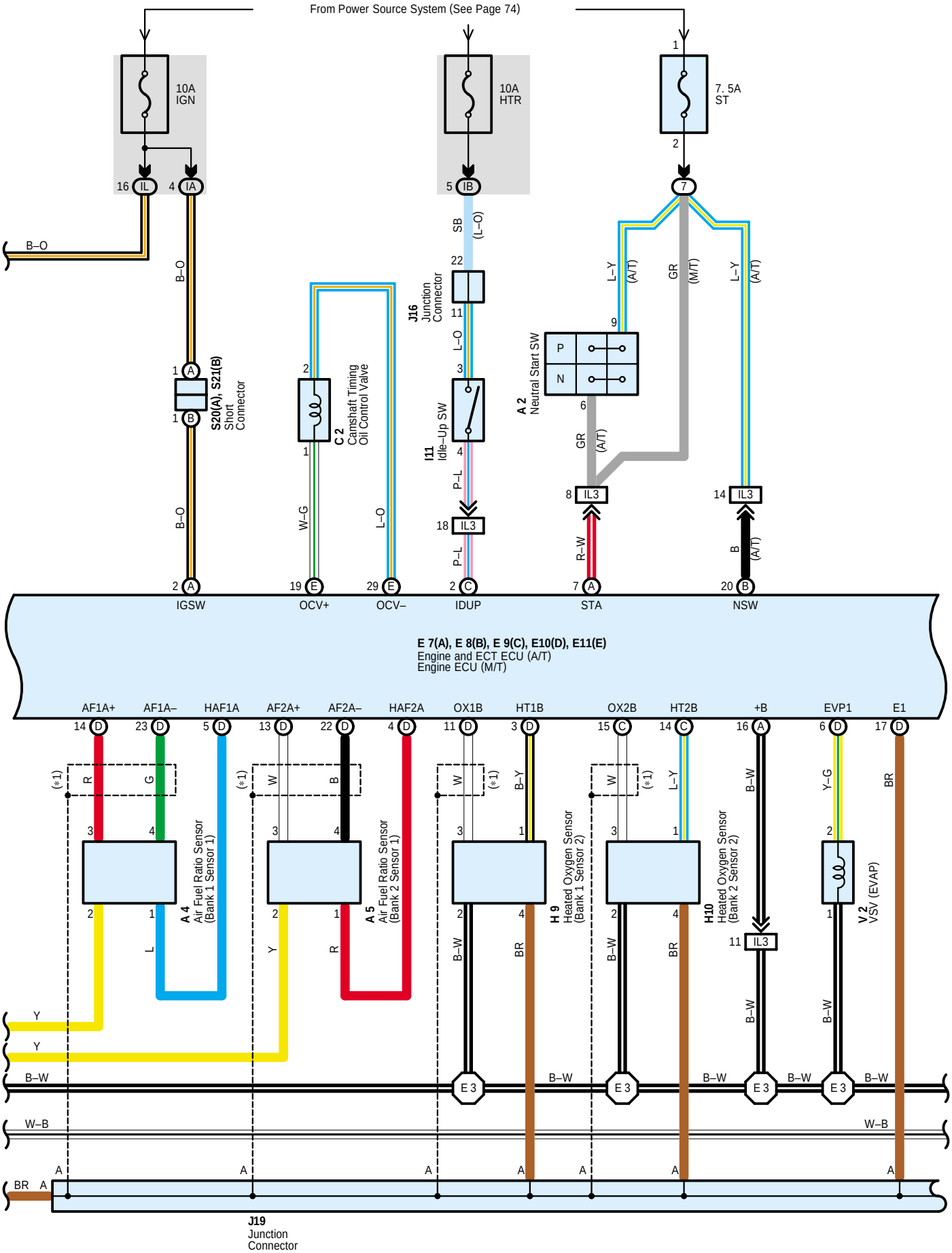
Double Locking (RHD)



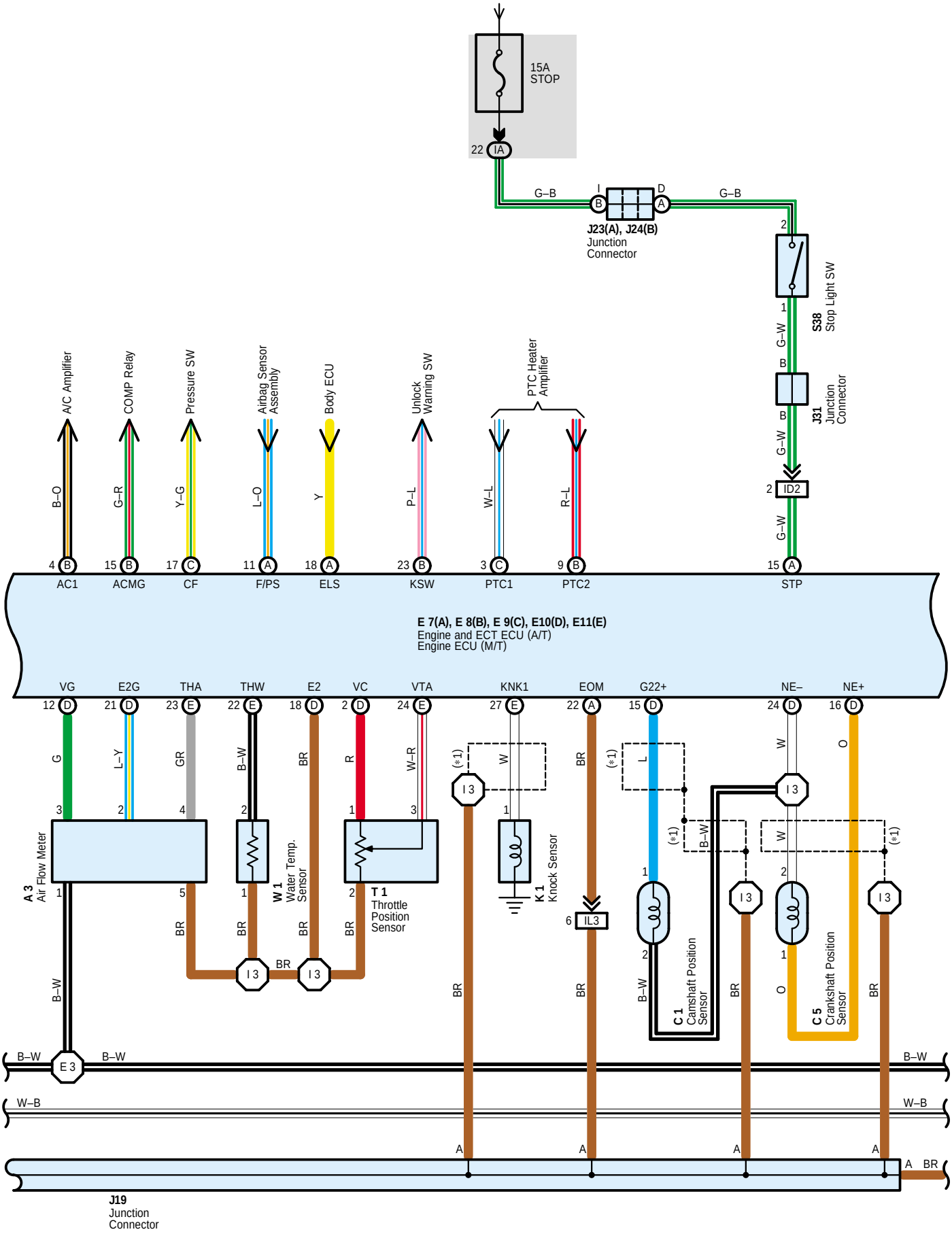

From Power Source System (See Page 74)
From Power Source System (See Page 74)
15A EFI
15A A/F
15A IG2
B–Y
G–Y
W–R
B–O
P–B
ID2
EA1
J17 Junction Connector
IL3
EFI Relay
A/F Relay
IG2 Relay
IE1
B–W
W–B
B
Y
E 7
C 7 Circuit Opening Relay
IL2
J16 Junction Connector
SB(W–B)
L–B
G–B
R–B
F18 Fuel Pump
M
3K
3H
3F
3D
J32 Junction Connector
BC
EA
IC

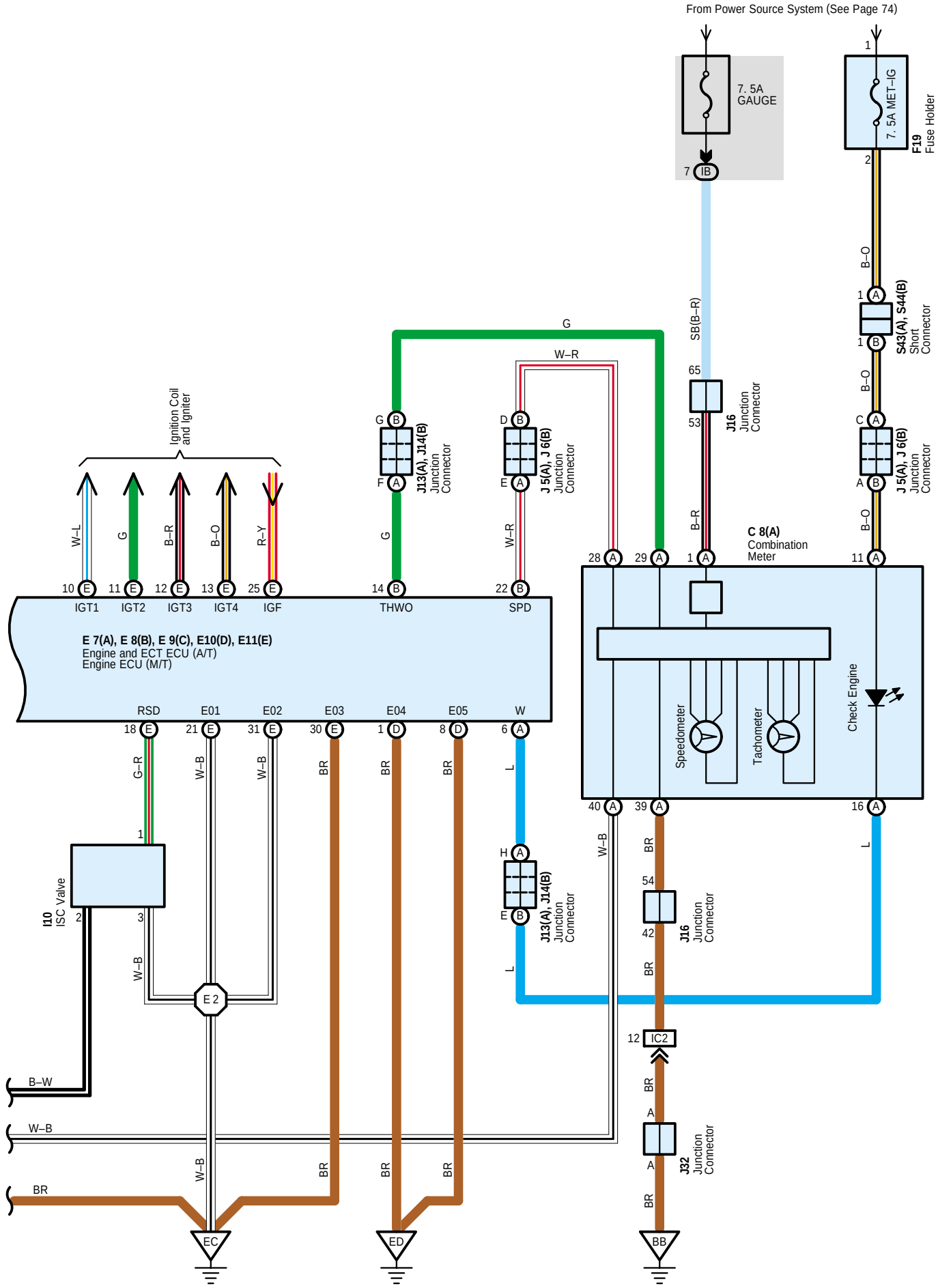
From Power Source System (See Page 74)

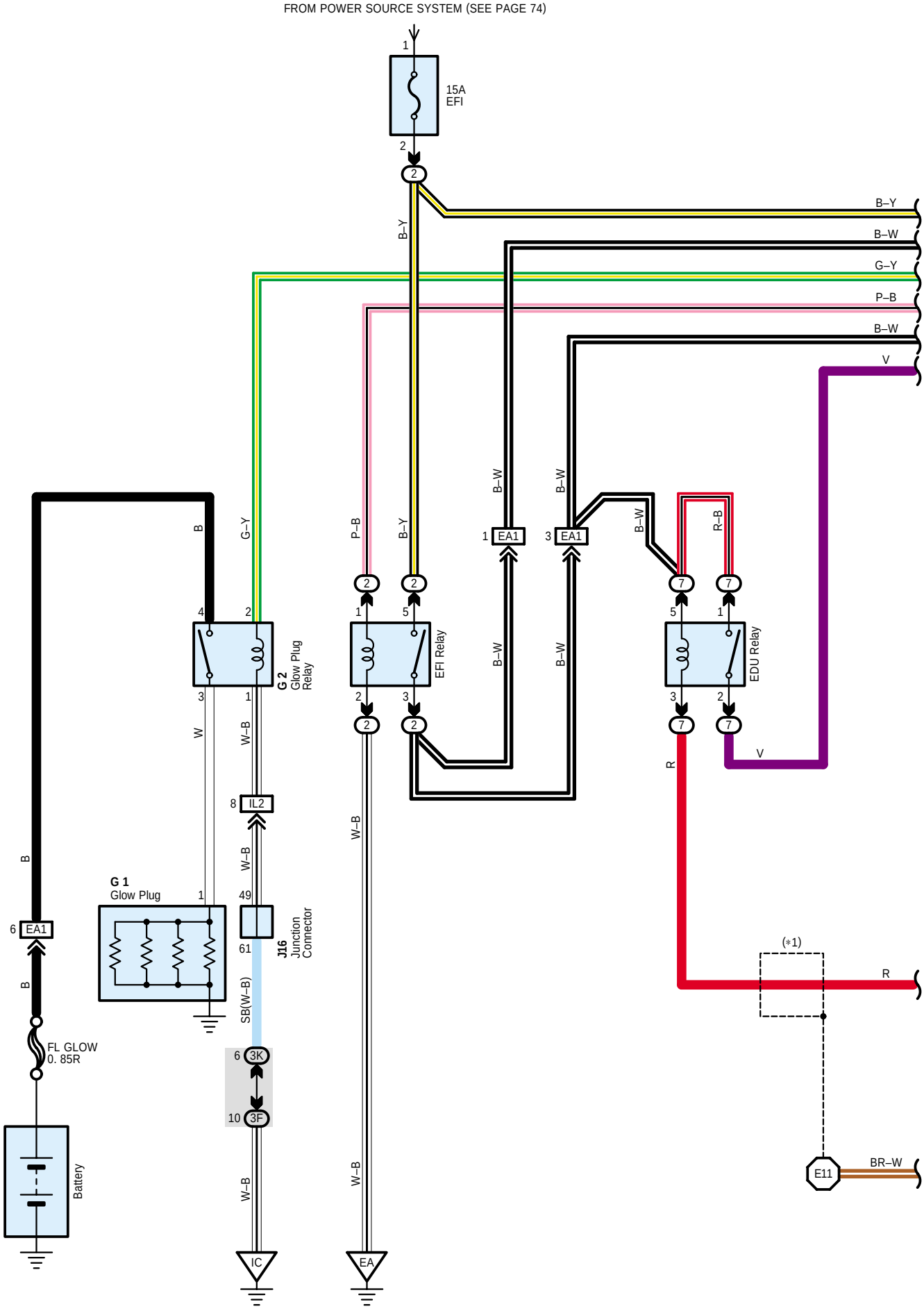



From Power Source System (See Page 74)
10A IGN
10A HTR
7. 5A ST
B–O
S20(A), S21(B) Short Connector
J16 Junction Connector
C 2 Camshaft Timing Oil Control Valve
I11 Idle–Up SW
A 2 Neutral Start SW
IGSW
OCV+
OCV–
IDUP
STA
NSW
E 7(A), E 8(B), E 9(C), E10(D), E11(E)
Engine and ECT ECU (A/T)
Engine ECU (M/T)
AF1A+
AF1A–
HAF1A
AF2A+
AF2A–
HAF2A
OX1B
HT1B
OX2B
HT2B
+B
EVP1
E1
A 4 Air Fuel Ratio Sensor (Bank 1 Sensor 1)
A 5 Air Fuel Ratio Sensor (Bank 2 Sensor 1)
H 9 Heated Oxygen Sensor (Bank 1 Sensor 2)
H10 Heated Oxygen Sensor (Bank 2 Sensor 2)
V 2 VSV (EVAP)
E 3
J19 Junction Connector

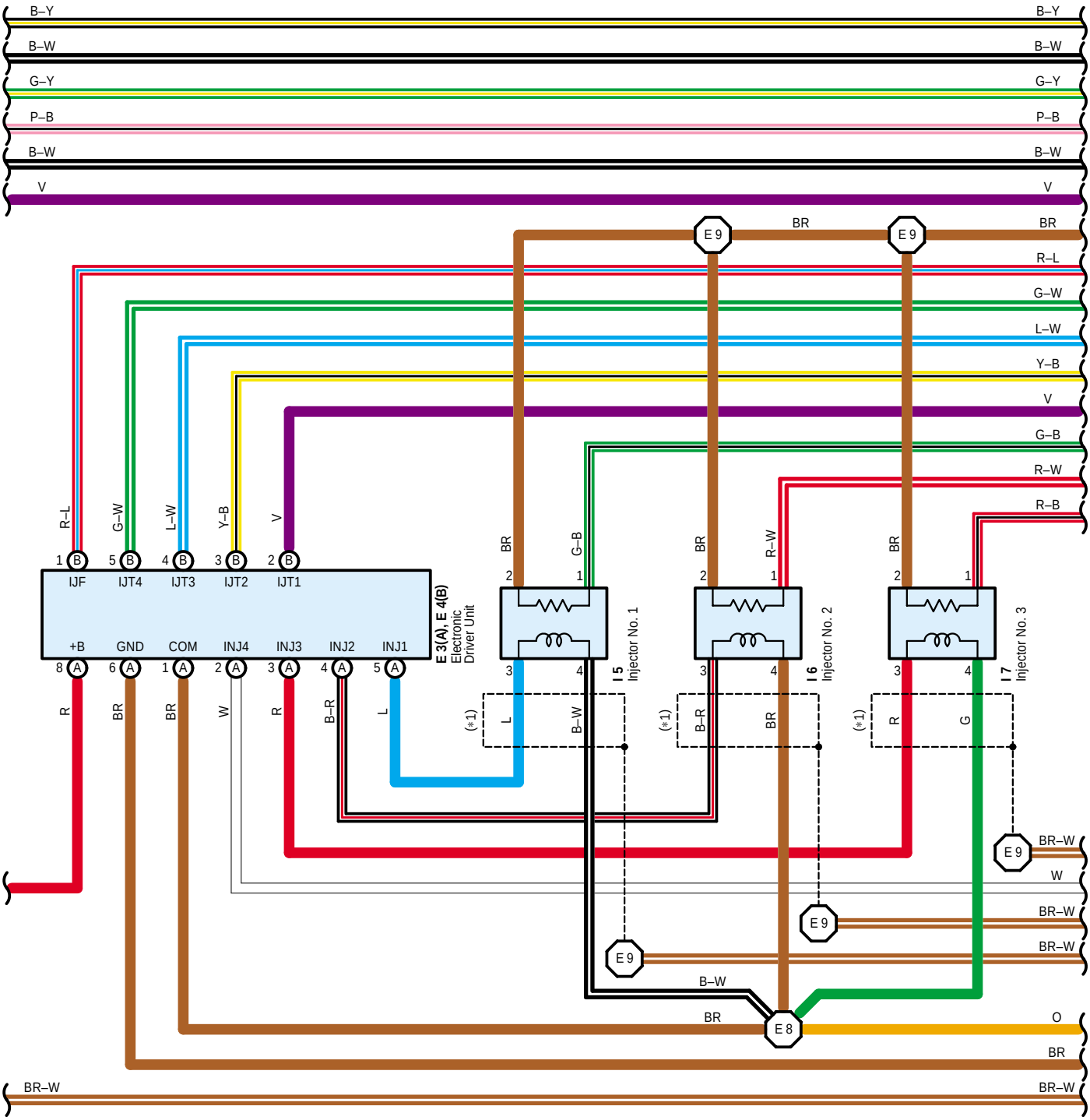
* 1 : Shielded

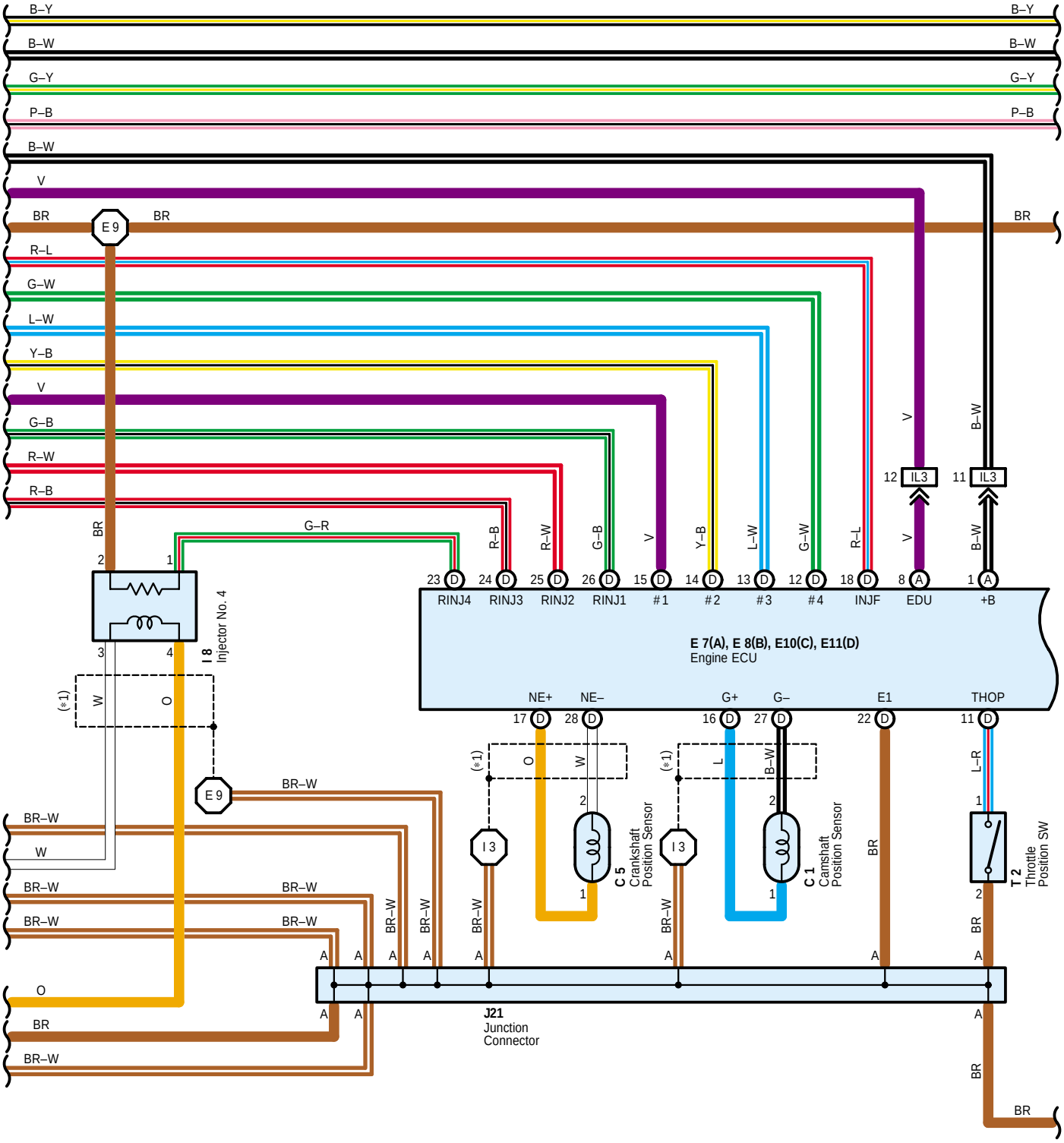

15A
STOP
22 IA
G–B
J23(A), J24(B)
Junction
Connector
G–B
S38
Stop Light SW
G–W
J31
Junction
Connector
G–W
ID2
G–W
A/C Amplifier
COMP Relay
Pressure SW
Airbag Sensor
Assembly
Body ECU
Unlock
Warning SW
PTC Heater
Amplifier
B–O
G–R
Y–G
L–O
Y
P–L
W–L
R–L
4 B AC1
15 B ACMG
17 C CF
11 A F/PS
18 A ELS
23 B KSW
3 C PTC1
9 B PTC2
15 A STP
E 7(A), E 8(B), E 9(C), E10(D), E11(E)
Engine and ECT ECU (A/T)
Engine ECU (M/T)
VG
E2G
THA
THW
E2
VC
VTA
KNK1
EOM
G22+
NE–
NE+
12 D
21 D
23 E
22 E
18 D
2 D
24 E
27 E
22 A
15 D
24 D
16 D
G
L–Y
GR
B–W
BR
R
W–R
W
BR
L
W
O
A 3
Air Flow Meter
W 1
Water Temp.
Sensor
T 1
Throttle
Position
Sensor
K 1
Knock Sensor
C 1
Camshaft Position
Sensor
C 5
Crankshaft Position
Sensor
(*1)
I 3
IL3
B–W
W–B
E 3
J19
Junction
Connector


From Power Source System (See Page 74)
7. 5A GAUGE
7 IB
7. 5A MET–IG
1
2
F19 Fuse Holder
SB(B–R)
65
53
J16 Junction Connector
B–R
B–O
S43(A), S44(B) Short Connector
C 8(A) Combination Meter
28 A
29 A
1 A
11 A
Ignition Coil and Igniter
W–L
G
B–R
B–O
R–Y
10 E
11 E
12 E
13 E
25 E
IGT1
IGT2
IGT3
IGT4
IGF
G
W–R
G B
F A
J13(A), J14(B) Junction Connector
14 B
THWO
D B
E A
J 5(A), J 6(B) Junction Connector
22 B
SPD
C A
A B
J 5(A), J 6(B) Junction Connector
E 7(A), E 8(B), E 9(C), E10(D), E11(E)
Engine and ECT ECU (A/T)
Engine ECU (M/T)
RSD
E01
E02
E03
E04
E05
W
18 E
21 E
31 E
30 E
1 D
8 D
6 A
G–R
W–B
W–B
BR
BR
BR
L
Speedometer
Tachometer
Check Engine
40 A
39 A
16 A
W–B
BR
L
H A
E B
J13(A), J14(B) Junction Connector
54
42
J16 Junction Connector
BR
L
I10 ISC Valve
1
2
3
W–B
E 2
12 IC2
BR
A
A
J32 Junction Connector
BR
B–W
W–B
BR
W–B
BR
BR
BR
EC
ED
BB

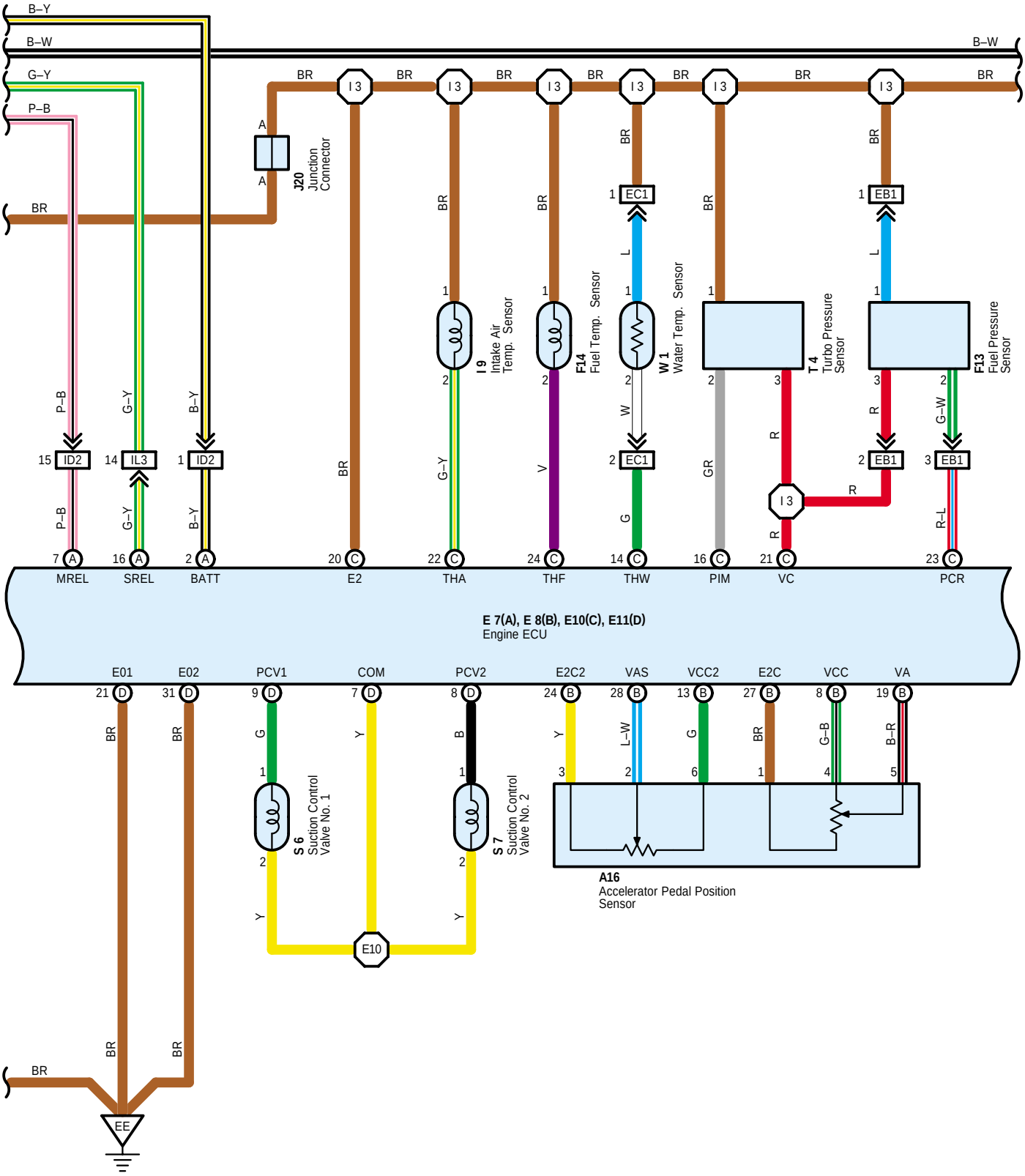

FROM POWER SOURCE SYSTEM (SEE PAGE 74)
15A
EFI
B–Y
B–W
G–Y
P–B
V
R
R–B
W
W–B
SB(W–B)
BR–W
G 2
Glow Plug
Relay
G 1
Glow Plug
J16
Junction
Connector
EFI Relay
EDU Relay
EA1
IL2
3K
3F
E11
IC
EA
Battery
FL GLOW
0. 85R
(*1)

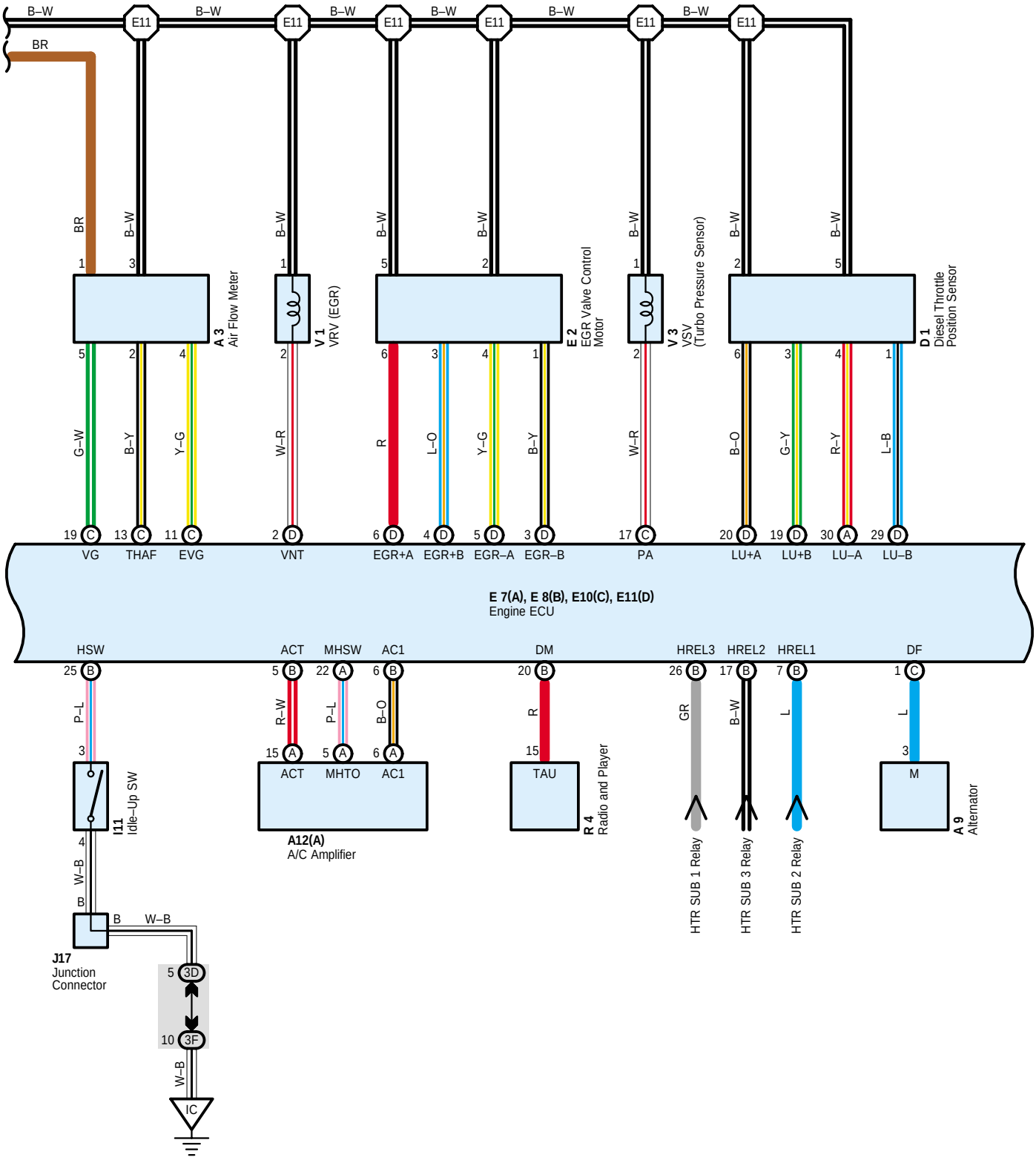
∗ 1 : Shielded

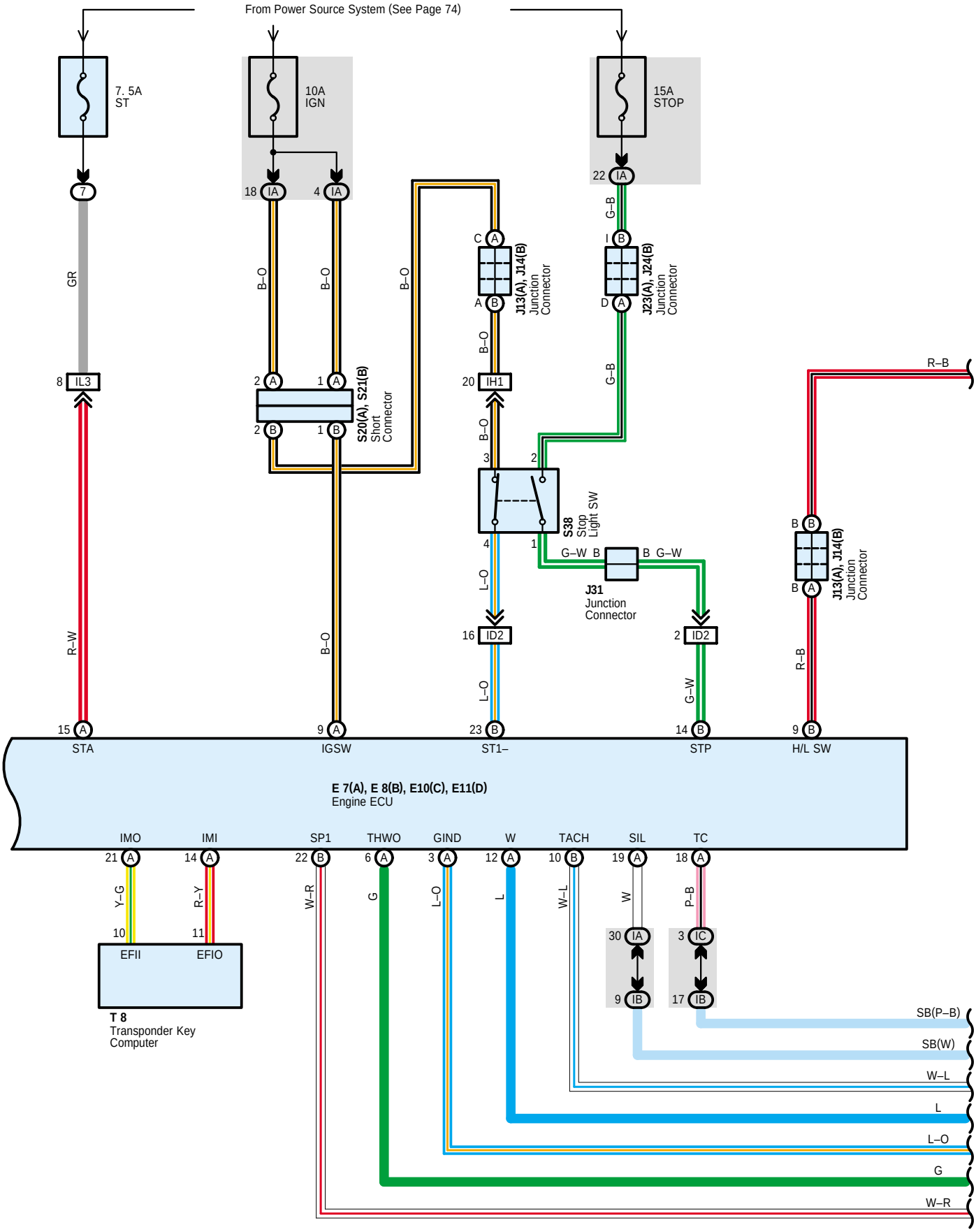

B–Y
B–W
G–Y
P–B
B–W
V
E 9
BR
R–L
G–W
L–W
Y–B
G–B
R–W
R–B
1 IJF
5 IJT4
4 IJT3
3 IJT2
2 IJT1
E 3(A), E 4(B) Electronic Driver Unit
8 +B
6 GND
1 COM
2 INJ4
3 INJ3
4 INJ2
5 INJ1
I 5 Injector No. 1
I 6 Injector No. 2
I 7 Injector No. 3
(∗1)
E 8
O
BR–W
W

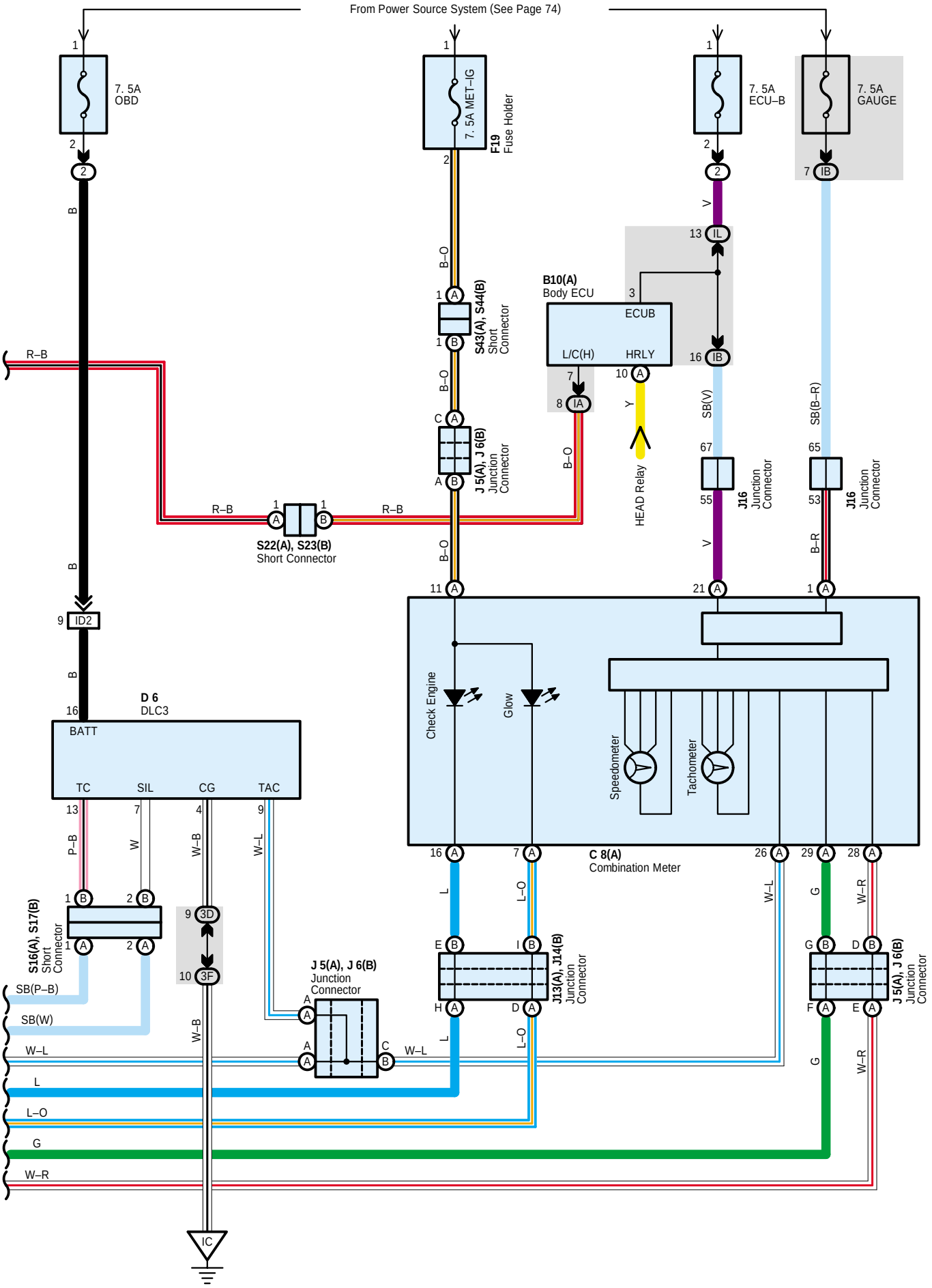

B–Y
B–W
G–Y
P–B
B–W
V
BR
E 9
R–L
G–W
L–W
Y–B
V
G–B
R–W
R–B
G–R
I 8
Injector No. 4
(*1)
W
O
BR–W
W
O
BR
J21
Junction
Connector
IL3
RINJ4
RINJ3
RINJ2
RINJ1
#1
#2
#3
#4
INJF
EDU
+B
E 7(A), E 8(B), E10(C), E11(D)
Engine ECU
NE+
NE–
G+
G–
E1
THOP
I 3
C 5
Crankshaft
Position Sensor
C 1
Camshaft
Position Sensor
T 2
Throttle
Position SW
L–R

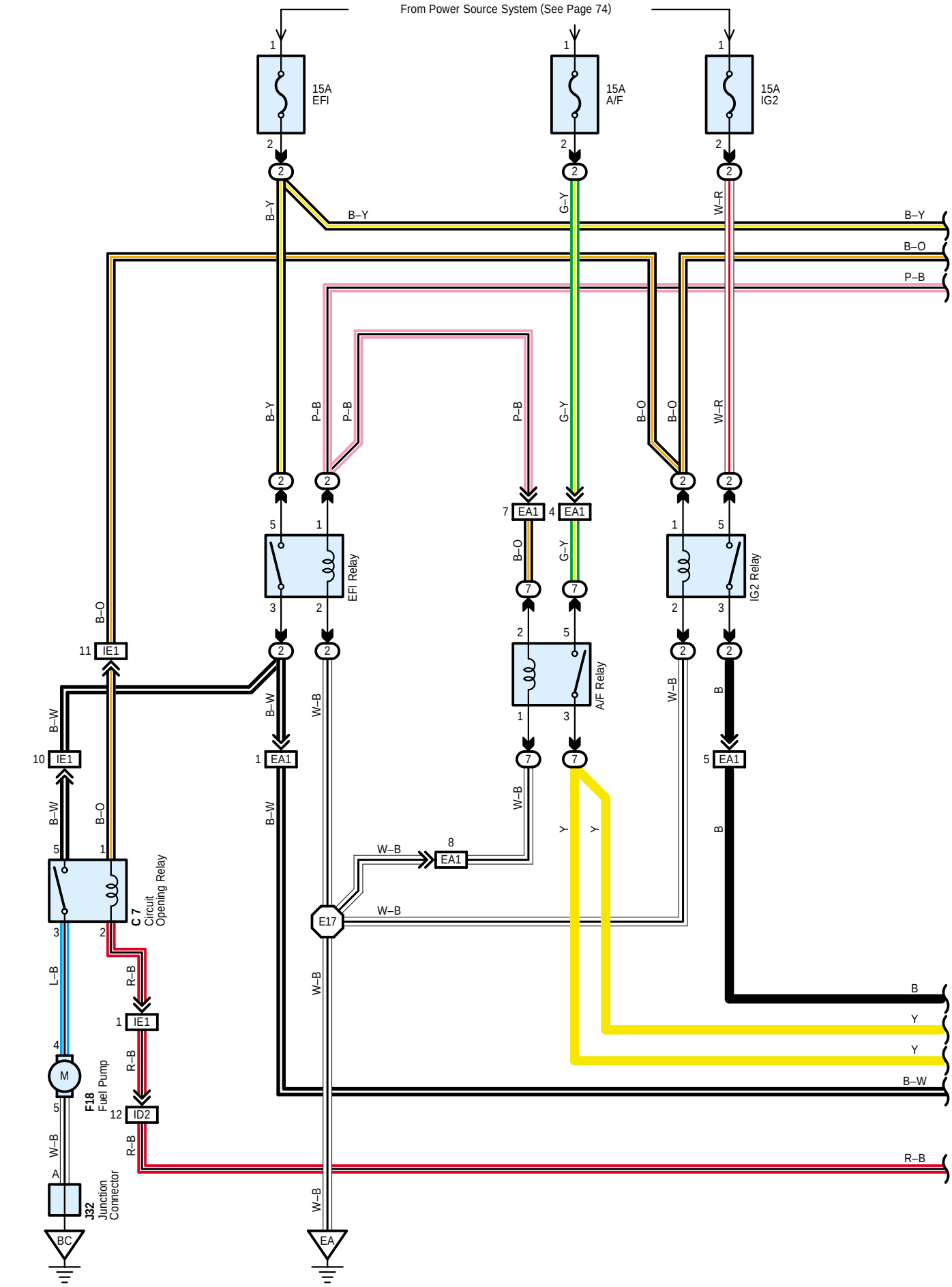
* 1 : Shielded


B–Y
B–W
G–Y
P–B
BR
J20
Junction Connector
I 9
Intake Air Temp. Sensor
F14
Fuel Temp. Sensor
W 1
Water Temp. Sensor
T 4
Turbo Pressure Sensor
F13
Fuel Pressure Sensor
MREL
SREL
BATT
E2
THA
THF
THW
PIM
VC
PCR
E 7(A), E 8(B), E10(C), E11(D)
Engine ECU
E01
E02
PCV1
COM
PCV2
E2C2
VAS
VCC2
E2C
VCC
VA
S 6
Suction Control Valve No. 1
S 7
Suction Control Valve No. 2
A16
Accelerator Pedal Position Sensor
E10
EE

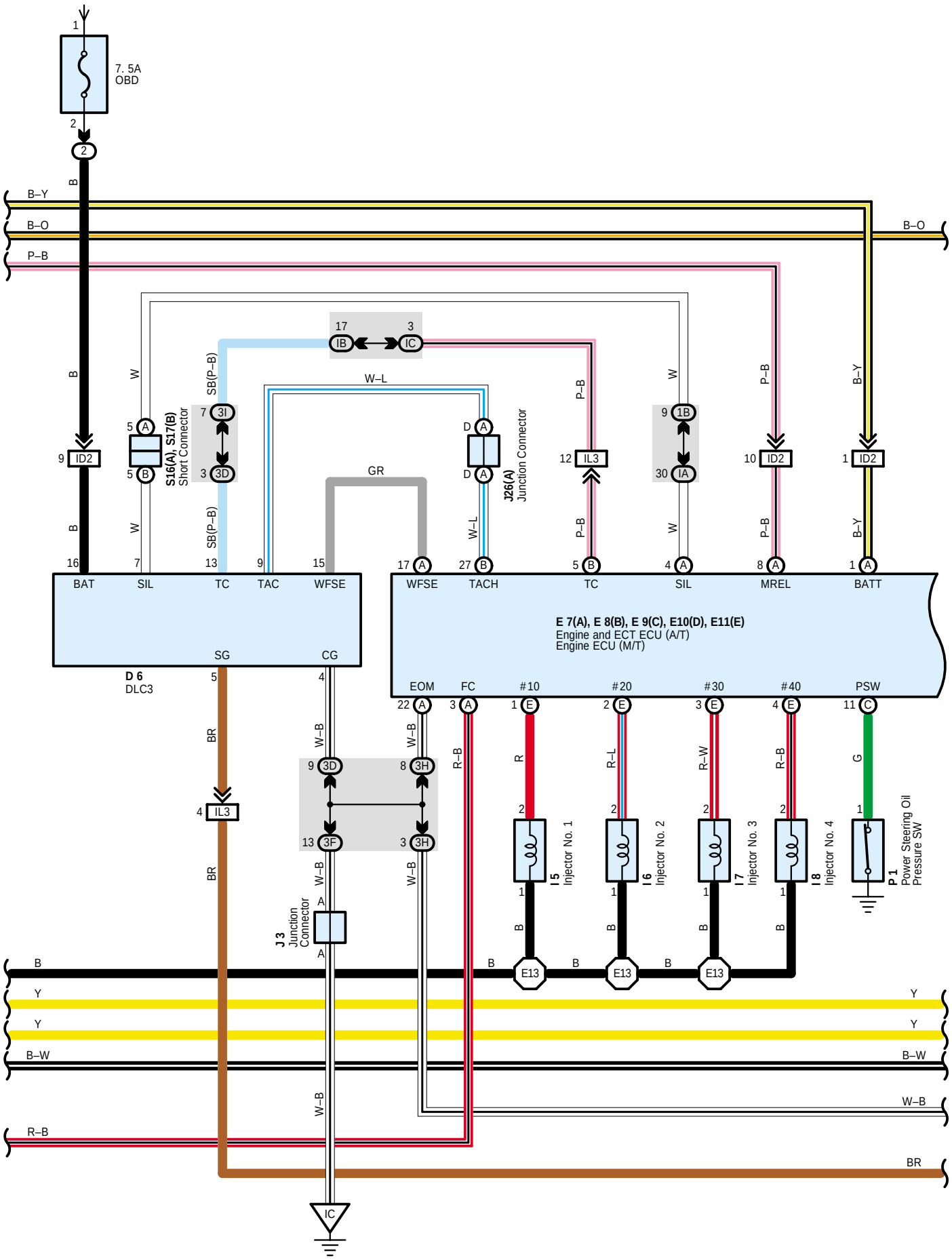

B–W
E11
BR
A 3
Air Flow Meter
V 1
VRV (EGR)
E 2
EGR Valve Control Motor
V 3
VSV (Turbo Pressure Sensor)
D 1
Diesel Throttle Position Sensor
G–W
B–Y
Y–G
W–R
R
L–O
B–O
G–Y
R–Y
L–B
VG
THAF
EVG
VNT
EGR+A
EGR+B
EGR–A
EGR–B
PA
LU+A
LU+B
LU–A
LU–B
E 7(A), E 8(B), E10(C), E11(D)
Engine ECU
HSW
ACT
MHSW
AC1
DM
HREL3
HREL2
HREL1
DF
P–L
R–W
B–O
GR
L
I11
Idle–Up SW
A12(A)
A/C Amplifier
TAU
R 4
Radio and Player
HTR SUB 1 Relay
HTR SUB 3 Relay
HTR SUB 2 Relay
M
A 9
Alternator
W–B
J17
Junction Connector
3D
3F
IC

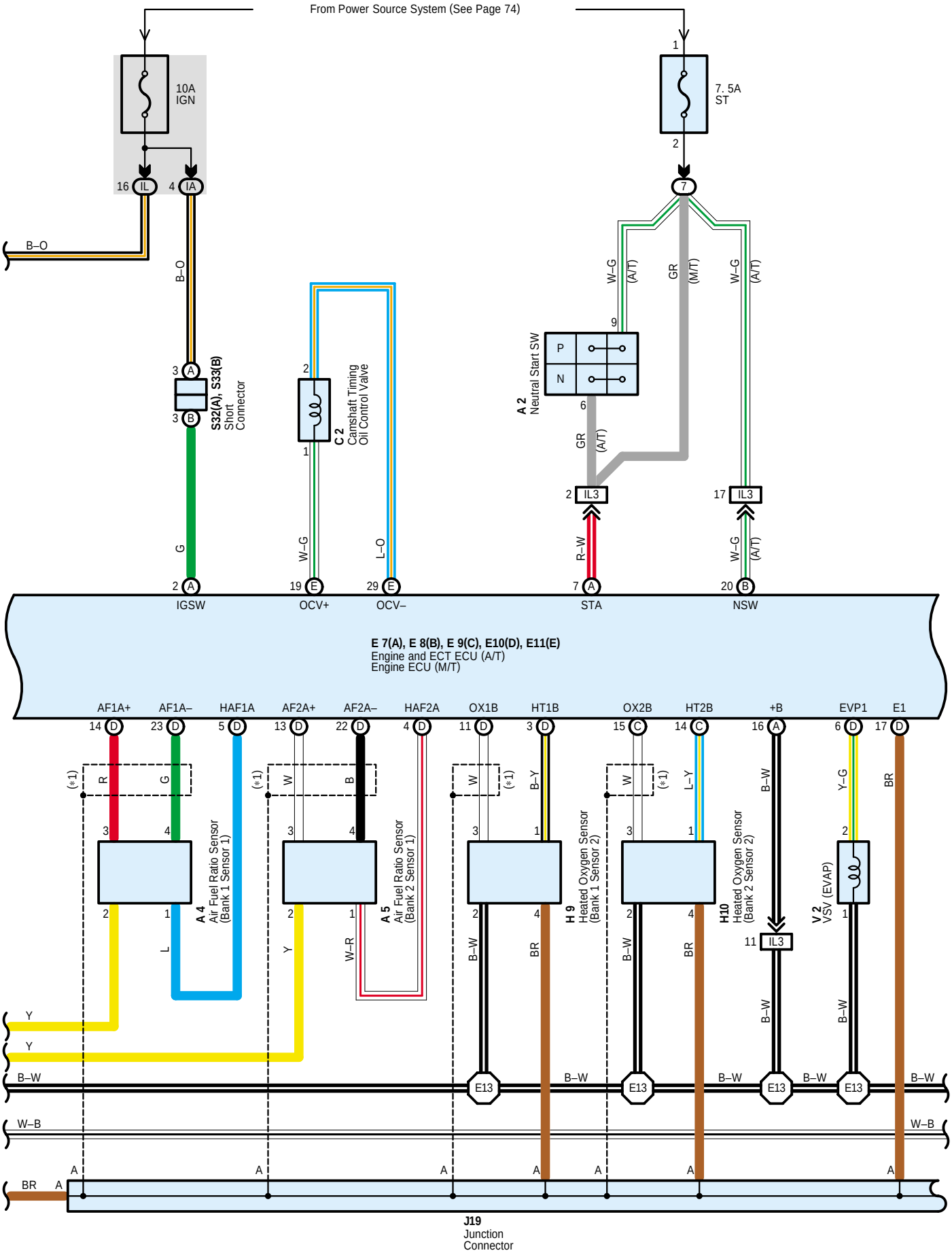

From Power Source System (See Page 74)
7. 5A
ST
10A
IGN
15A
STOP
GR
B–O
G–B
R–W
R–B
L–O
G–W
W–R
L
G
W–L
W
P–B
SB(P–B)
SB(W)
S20(A), S21(B)
Short
Connector
J13(A), J14(B)
Junction
Connector
J23(A), J24(B)
Junction
Connector
S38
Stop
Light SW
J31
Junction
Connector
IL3
IH1
ID2
STA
IGSW
ST1–
STP
H/L SW
E 7(A), E 8(B), E10(C), E11(D)
Engine ECU
IMO
IMI
SP1
THWO
GIND
W
TACH
SIL
TC
EFII
EFIO
T 8
Transponder Key
Computer

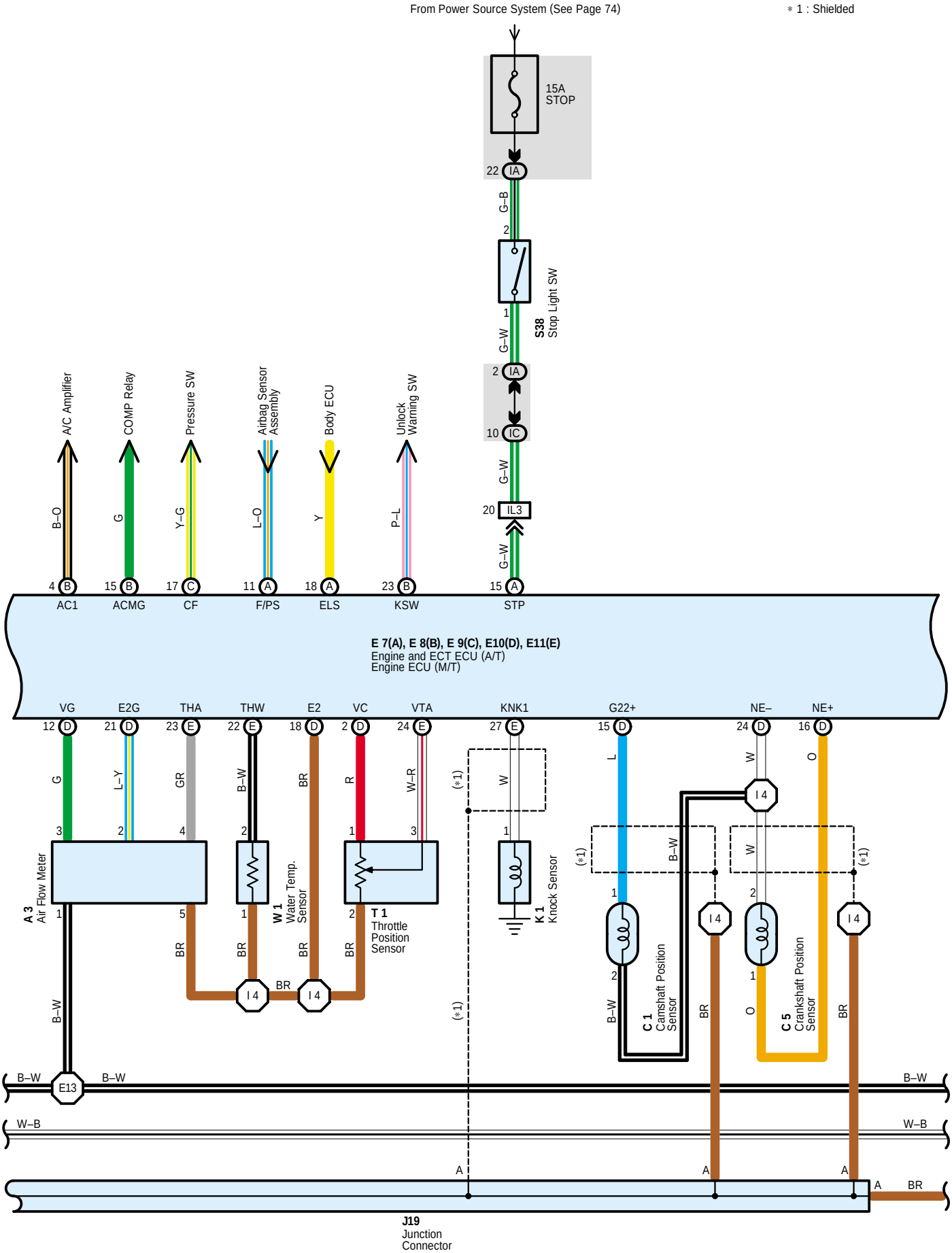

From Power Source System (See Page 74)
7. 5A OBD
7. 5A MET–IG
F19 Fuse Holder
7. 5A ECU–B
7. 5A GAUGE
B10(A) Body ECU
ECUB
L/C(H)
HRLY
HEAD Relay
S43(A), S44(B) Short Connector
J 5(A), J 6(B) Junction Connector
S22(A), S23(B) Short Connector
J16 Junction Connector
ID2
D 6 DLC3
BATT
TC
SIL
CG
TAC
Check Engine
Glow
Speedometer
Tachometer
C 8(A) Combination Meter
S16(A), S17(B) Short Connector
J13(A), J14(B) Junction Connector
IC
R–B
B
B–O
V
SB(V)
SB(B–R)
B–R
P–B
W
W–B
W–L
L
L–O
G
W–R
SB(P–B)
SB(W)

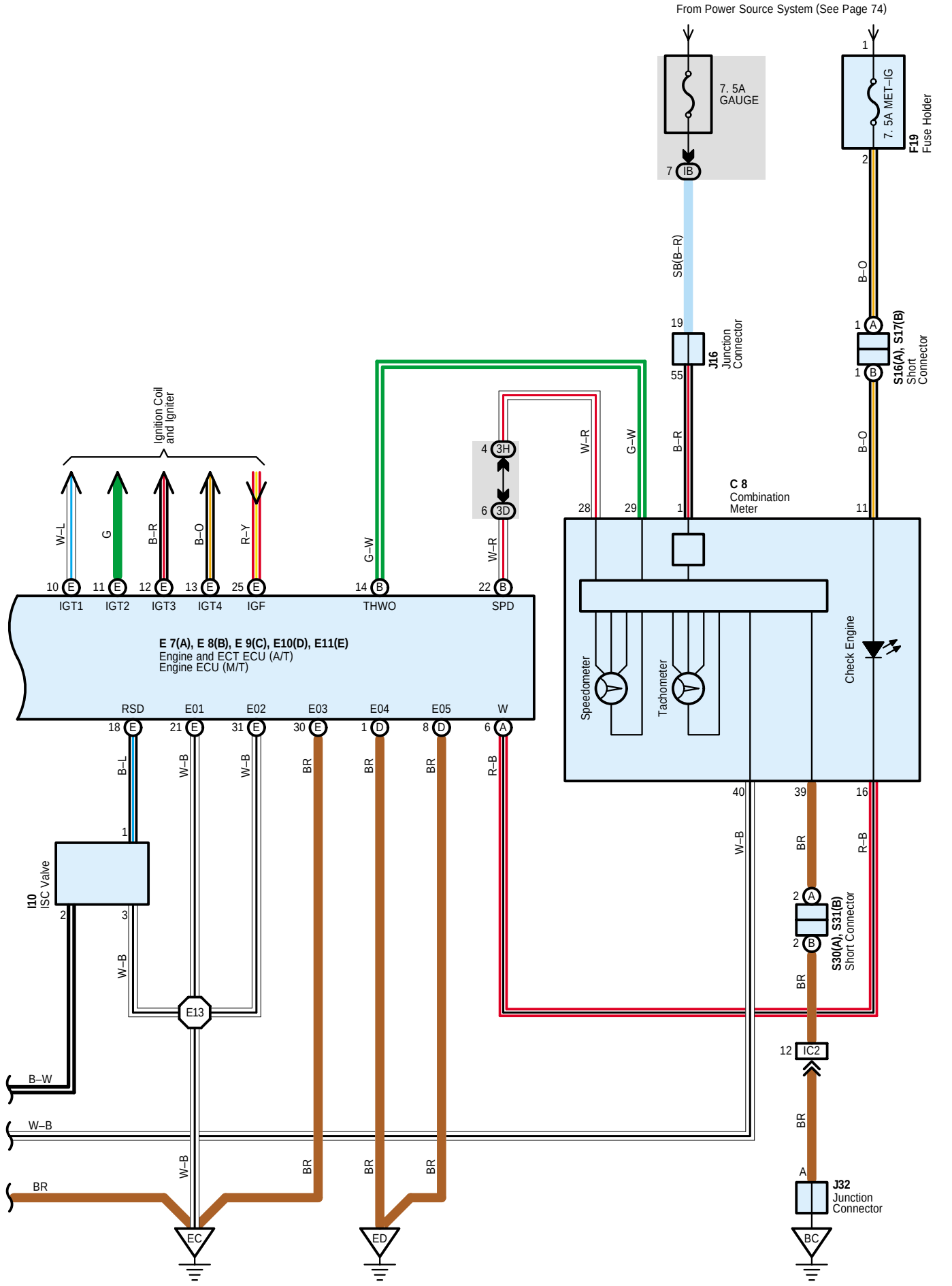

From Power Source System (See Page 74)
15A EFI
15A A/F
15A IG2
EFI Relay
A/F Relay
IG2 Relay
C7 Circuit Opening Relay
F18 Fuel Pump
J32 Junction Connector
IE1
EA1
ID2
E17
BC
EA
B–Y
G–Y
W–R
B–O
P–B
B–W
W–B
L–B
R–B
B
Y

From Power Source System (See Page 74)

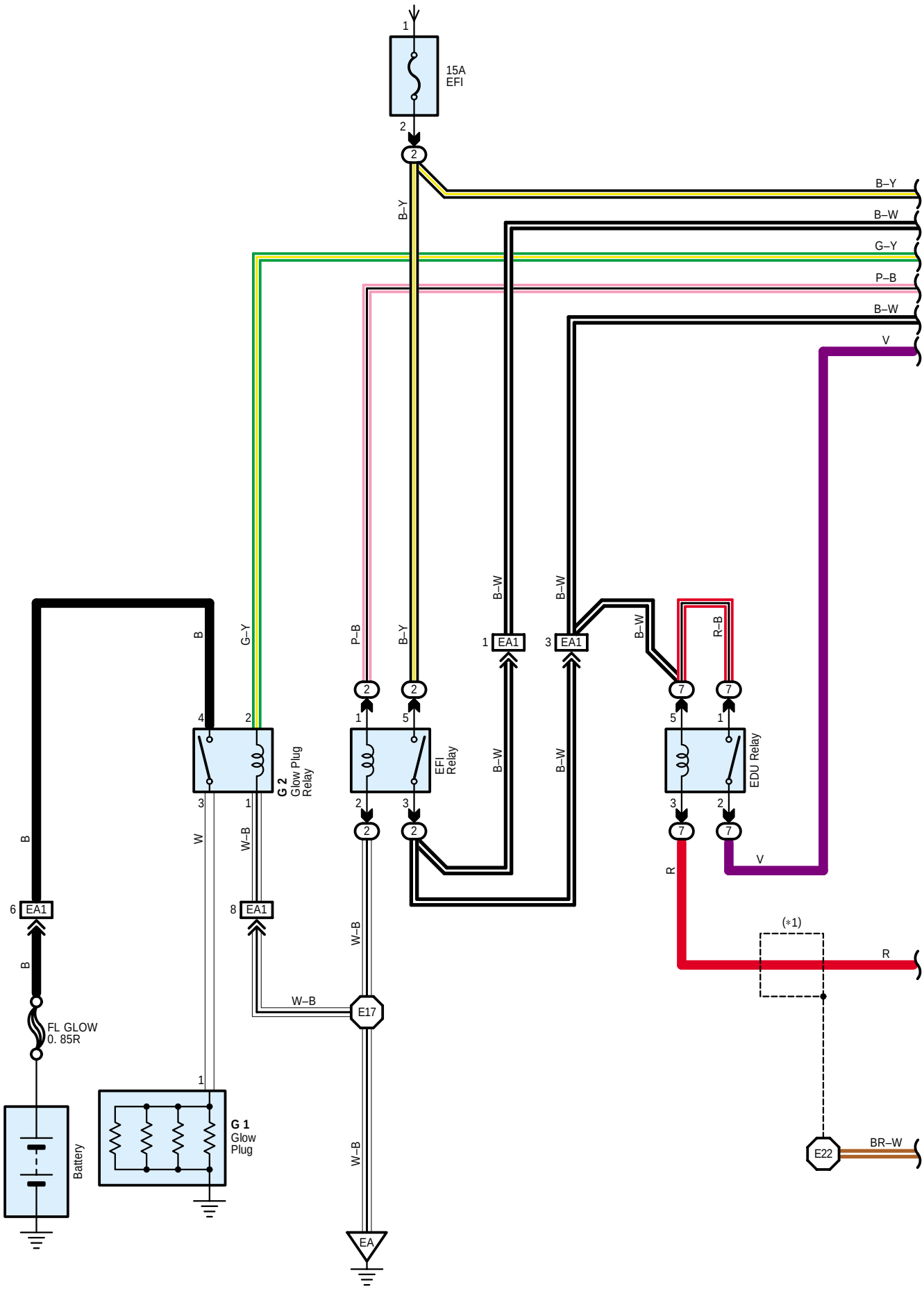



From Power Source System (See Page 74)
10A IGN
7.5A ST
16 IL
4 IA
1
2
7
B–O
B–O
3 A
3 B
S32(A), S33(B) Short Connector
G
2 A
IGSW
2
1
C 2 Camshaft Timing Oil Control Valve
W–G
19 E
OCV+
L–O
29 E
OCV–
W–G (A/T)
GR (M/T)
W–G (A/T)
9
P
N
A 2 Neutral Start SW
6
GR (A/T)
2 IL3
R–W
7 A
STA
17 IL3
W–G (A/T)
20 B
NSW
E 7(A), E 8(B), E 9(C), E10(D), E11(E)
Engine and ECT ECU (A/T)
Engine ECU (M/T)
AF1A+
AF1A–
HAF1A
AF2A+
AF2A–
HAF2A
OX1B
HT1B
OX2B
HT2B
+B
EVP1
E1
14 D
23 D
5 D
13 D
22 D
4 D
11 D
3 D
15 C
14 C
16 A
6 D
17 D
(*1)
R
G
W
B
W
B–Y
W
L–Y
B–W
Y–G
BR
A 4 Air Fuel Ratio Sensor (Bank 1 Sensor 1)
A 5 Air Fuel Ratio Sensor (Bank 2 Sensor 1)
H 9 Heated Oxygen Sensor (Bank 1 Sensor 2)
H10 Heated Oxygen Sensor (Bank 2 Sensor 2)
V 2 VSV (EVAP)
L
Y
W–R
B–W
BR
11 IL3
E13
Y
Y
B–W
W–B
BR A
J19 Junction Connector

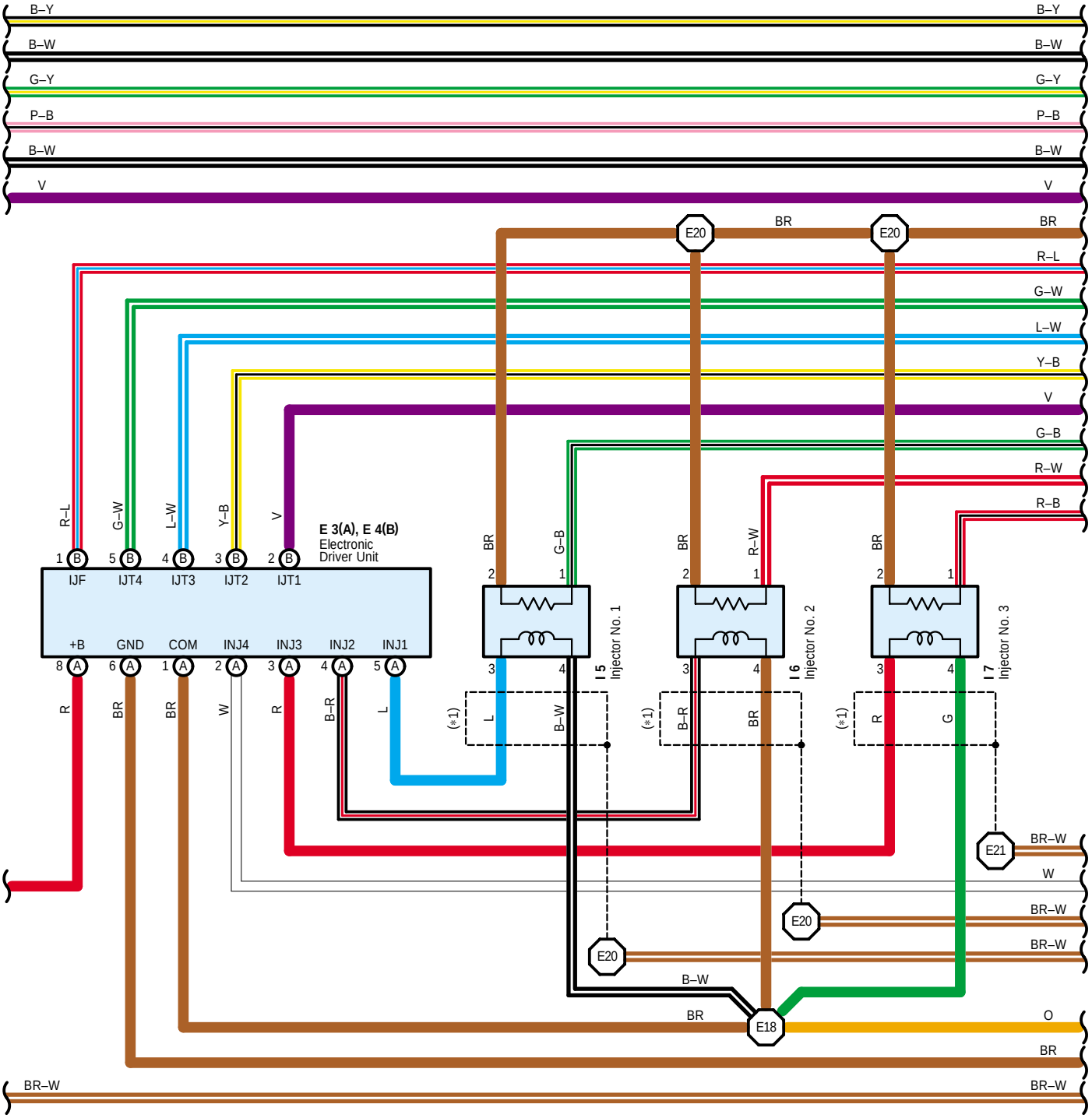

From Power Source System (See Page 74)
* 1 : Shielded
15A
STOP
22 IA
G–B
2
S38
Stop Light SW
1
G–W
2 IA
10 IC
G–W
20 IL3
G–W
15 A
A/C Amplifier
COMP Relay
Pressure SW
Airbag Sensor Assembly
Body ECU
Unlock Warning SW
B–O
G
Y–G
L–O
Y
P–L
4 B
15 B
17 C
11 A
18 A
23 B
AC1
ACMG
CF
F/PS
ELS
KSW
STP
E 7(A), E 8(B), E 9(C), E10(D), E11(E)
Engine and ECT ECU (A/T)
Engine ECU (M/T)
VG
E2G
THA
THW
E2
VC
VTA
KNK1
G22+
NE–
NE+
12 D
21 D
23 E
22 E
18 D
2 D
24 E
27 E
15 D
24 D
16 D
G
L–Y
GR
B–W
BR
R
W–R
W
L
W
O
3
2
4
2
1
3
1
2
1
(*1)
A 3
Air Flow Meter
W 1
Water Temp. Sensor
T 1
Throttle Position Sensor
K 1
Knock Sensor
C 1
Camshaft Position Sensor
C 5
Crankshaft Position Sensor
I 4
B–W
BR
O
E13
W–B
A
J19
Junction Connector

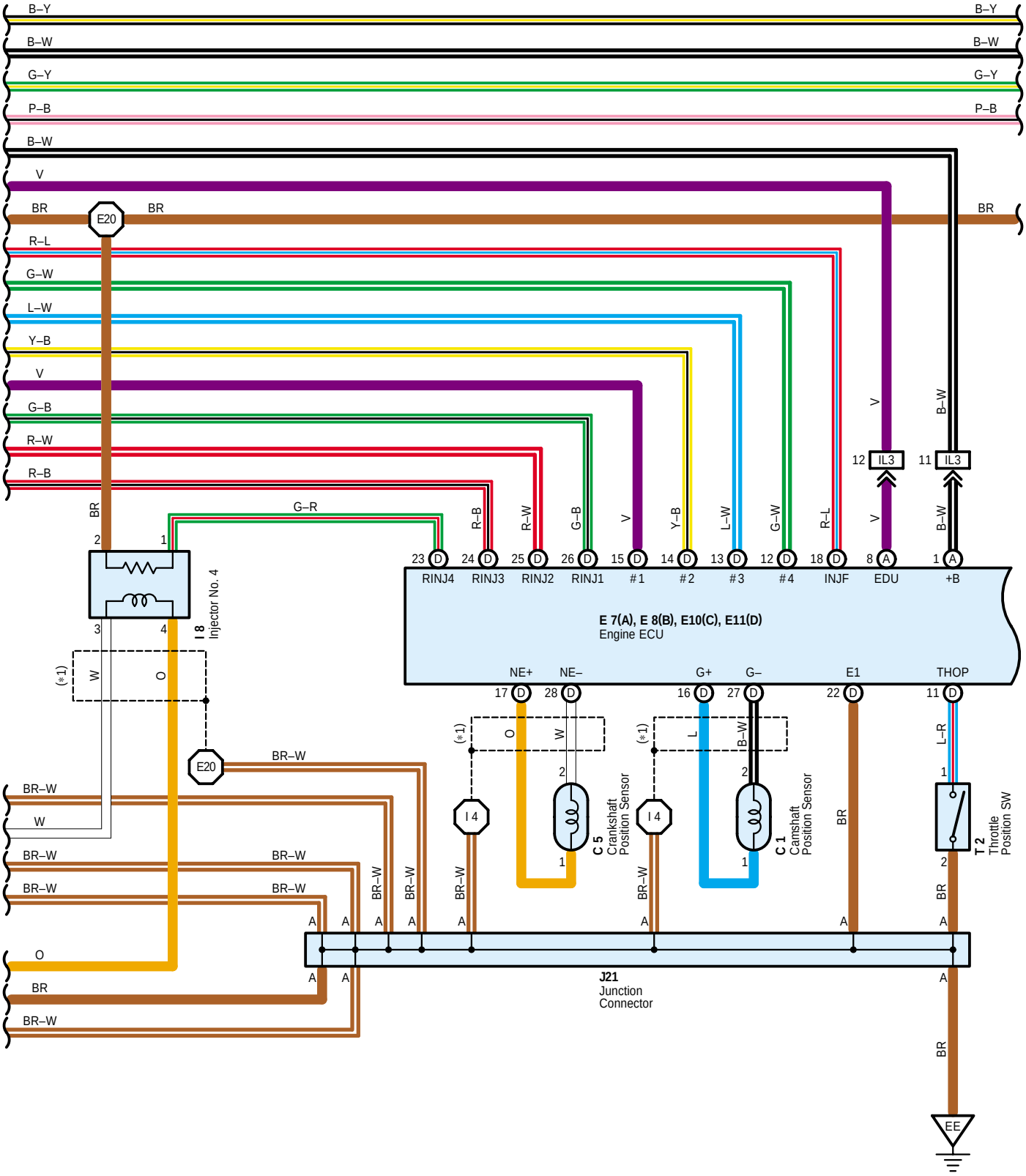

From Power Source System (See Page 74)
7. 5A GAUGE
7 IB
SB(B–R)
19
J16 Junction Connector
55
B–R
1
C 8 Combination Meter
28
29
W–R
G–W
4 3H
6 3D
1
7. 5A MET–IG
F19 Fuse Holder
2
B–O
1 A
1 B
S16(A), S17(B) Short Connector
B–O
11
Ignition Coil and Igniter
W–L
G
B–R
B–O
R–Y
10 E
11 E
12 E
13 E
25 E
IGT1
IGT2
IGT3
IGT4
IGF
14 B
THWO
22 B
SPD
E 7(A), E 8(B), E 9(C), E10(D), E11(E)
Engine and ECT ECU (A/T)
Engine ECU (M/T)
RSD
E01
E02
E03
E04
E05
W
18 E
21 E
31 E
30 E
1 D
8 D
6 A
B–L
W–B
W–B
BR
BR
BR
R–B
Speedometer
Tachometer
Check Engine
40
39
16
W–B
BR
R–B
I10 ISC Valve
1
2
3
W–B
E13
2 A
2 B
S30(A), S31(B) Short Connector
BR
12 IC2
BR
A
J32 Junction Connector
B–W
W–B
BR
W–B
BR
BR
BR
EC
ED
BC

From Power Source System (See Page 74)

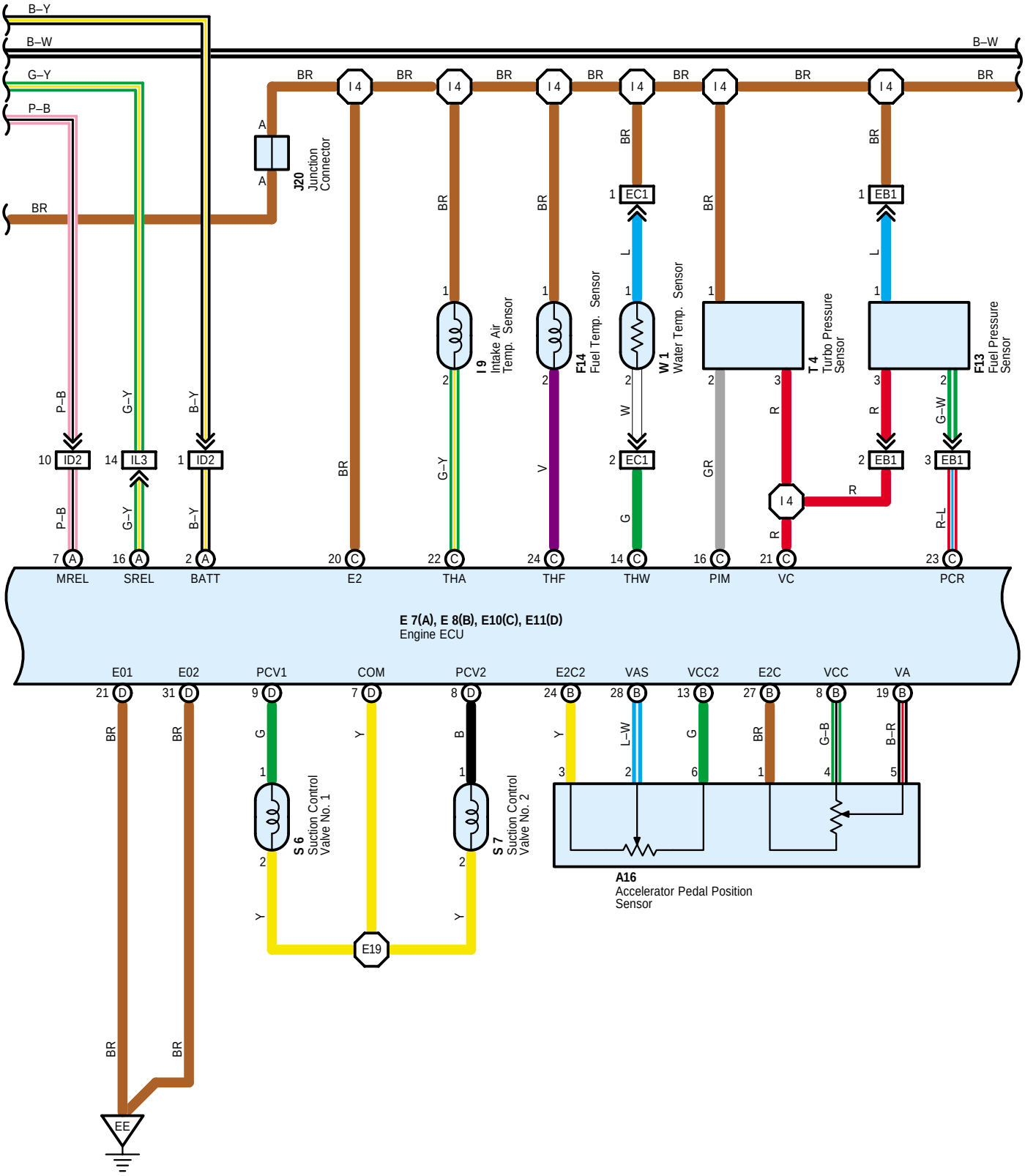


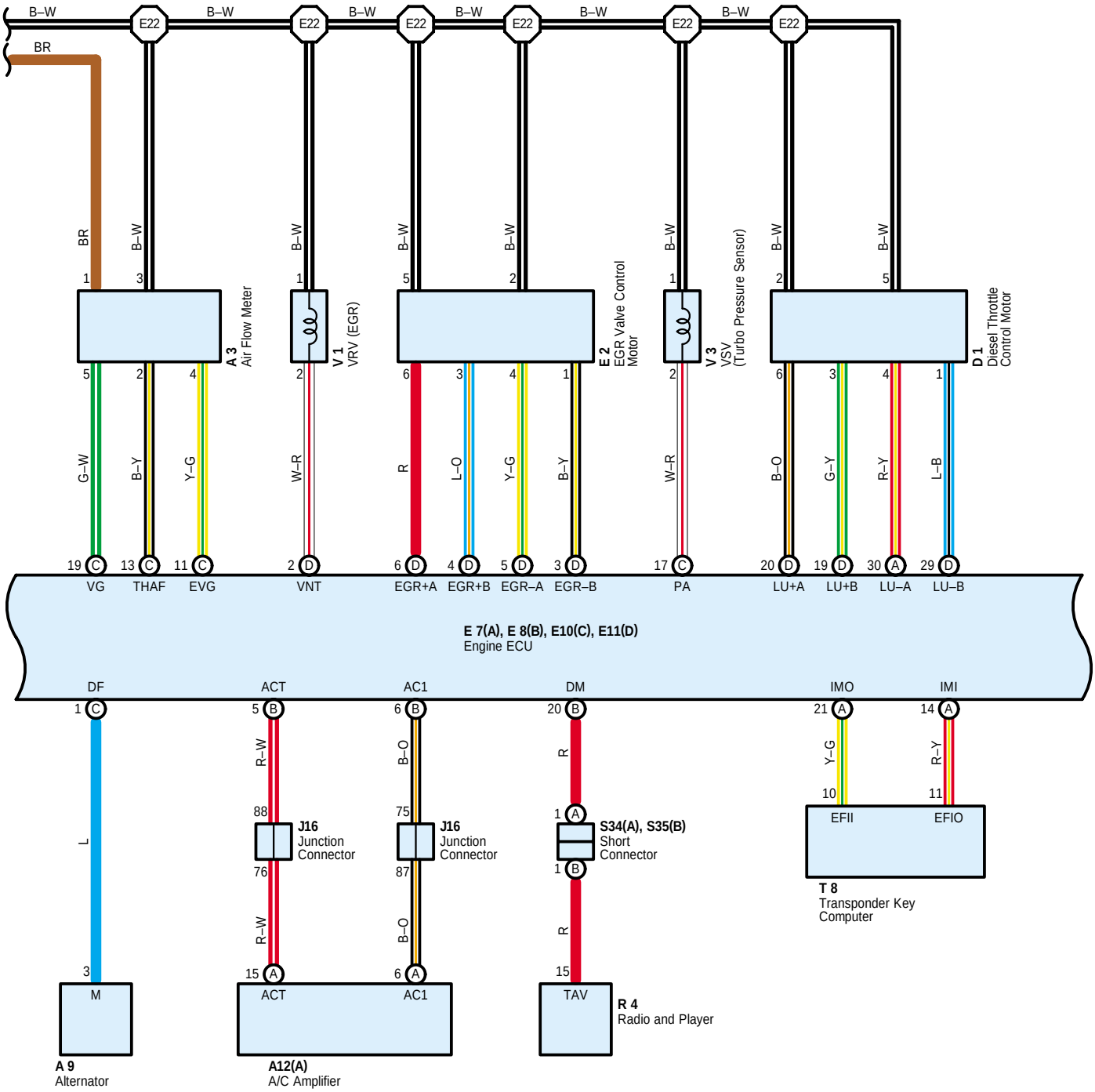
＊1 : Shielded

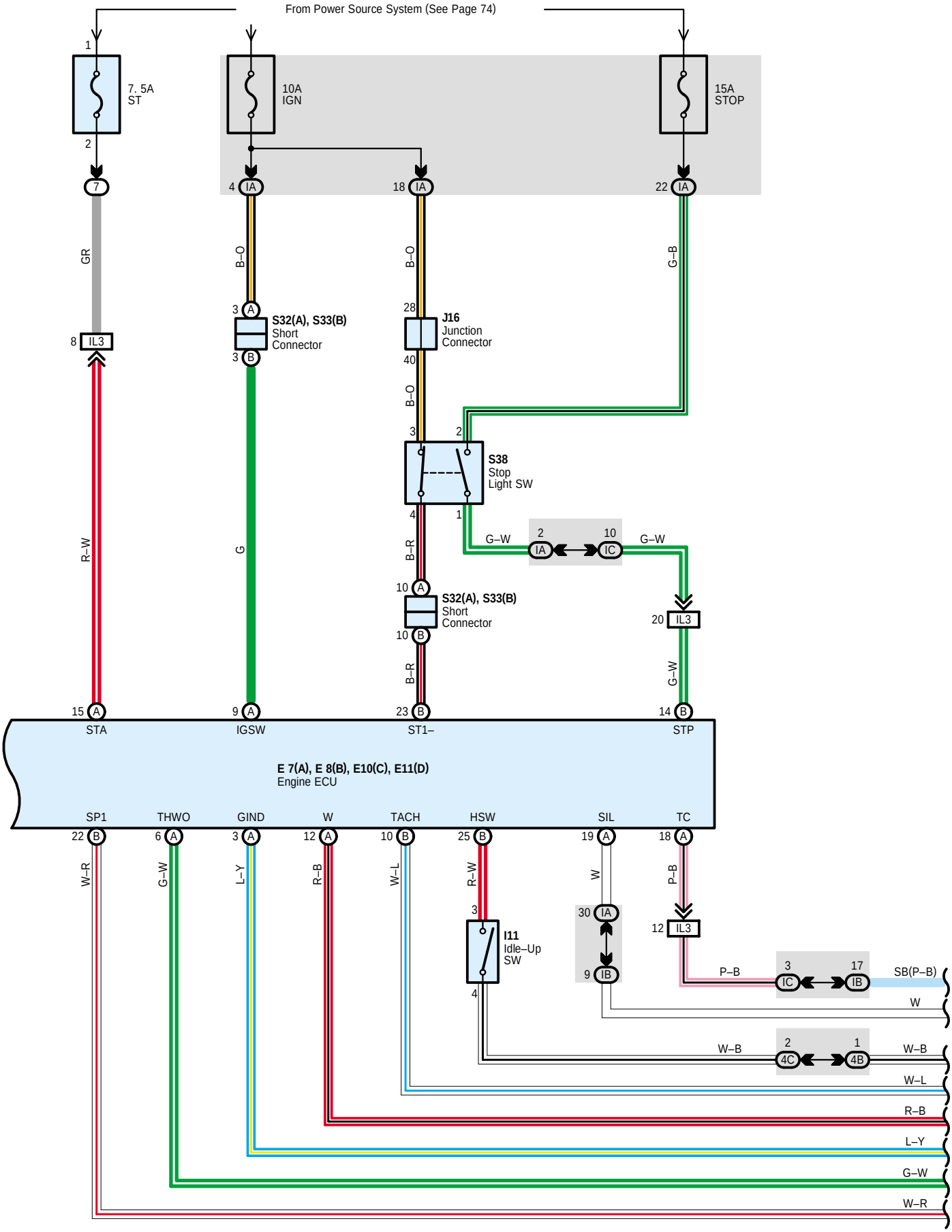

B–Y
B–W
G–Y
P–B
B–W
V
E20
BR
R–L
G–W
L–W
Y–B
G–B
R–W
R–B
E 3(A), E 4(B)
Electronic
Driver Unit
IJF
IJT4
IJT3
IJT2
IJT1
+B
GND
COM
INJ4
INJ3
INJ2
INJ1
I 5
Injector No. 1
I 6
Injector No. 2
I 7
Injector No. 3
(＊1)
E21
E18
O
BR–W

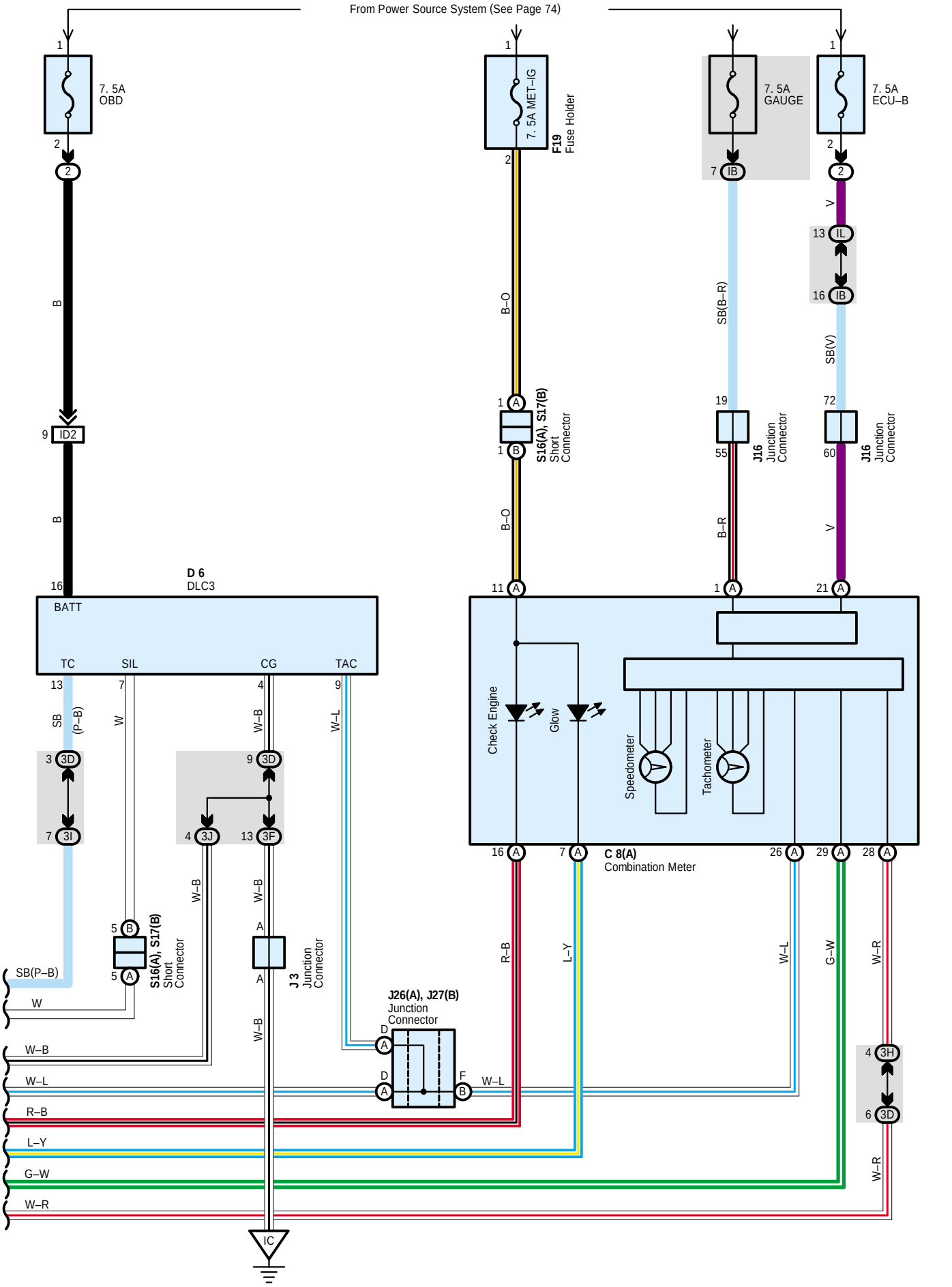

B–Y
B–W
G–Y
P–B
B–W
V
BR
E20
R–L
G–W
L–W
Y–B
V
G–B
R–W
R–B
G–R
I 8
Injector No. 4
(*1)
W
O
E20
BR–W
W
O
BR
RINJ4
RINJ3
RINJ2
RINJ1
#1
#2
#3
#4
INJF
EDU
+B
IL3
E 7(A), E 8(B), E10(C), E11(D)
Engine ECU
NE+
NE–
G+
G–
E1
THOP
I 4
C 5
Crankshaft Position Sensor
C 1
Camshaft Position Sensor
T 2
Throttle Position SW
L–R
L
J21
Junction Connector
EE

∗ 1 : Shielded

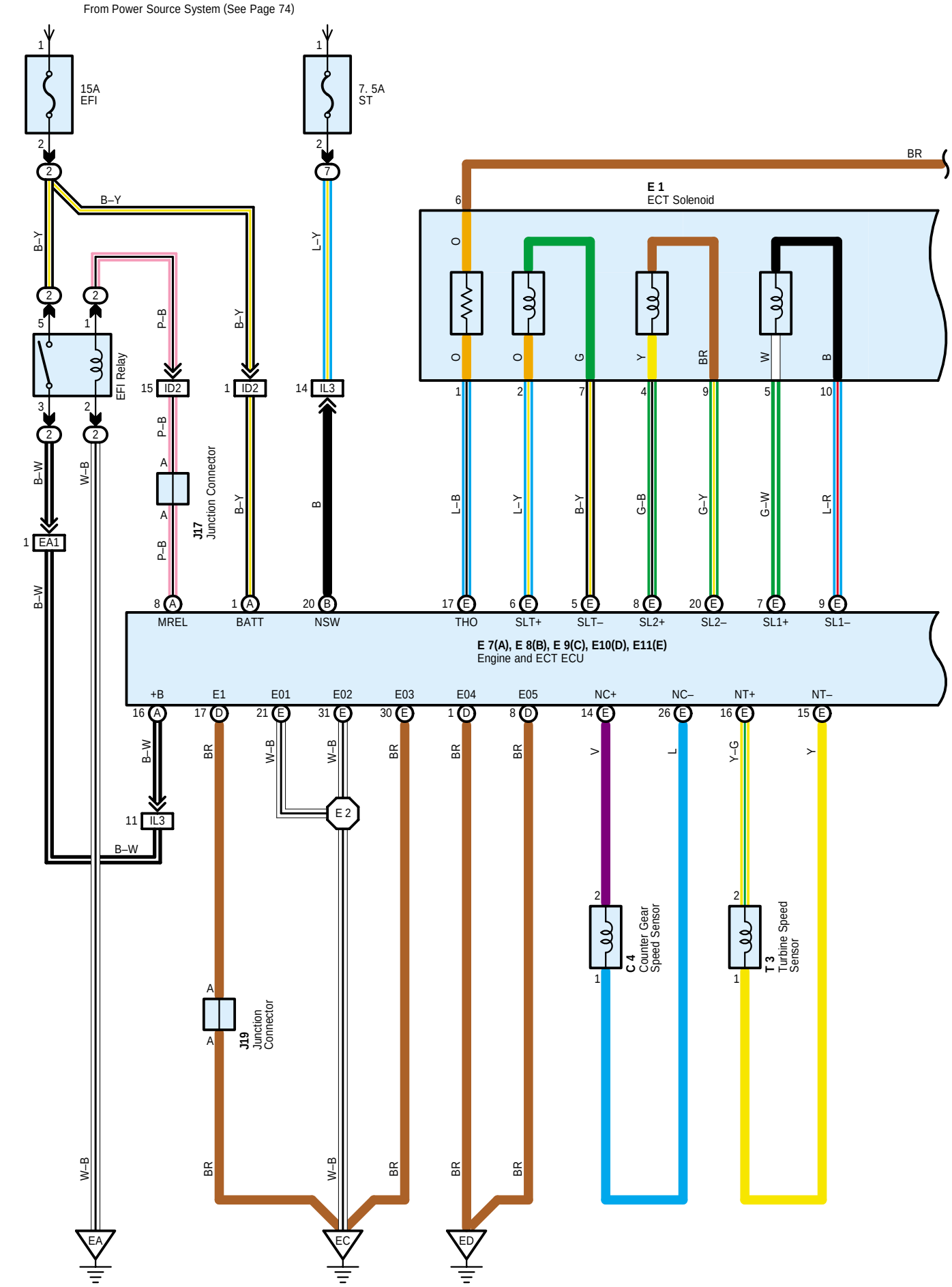

B–Y
B–W
G–Y
P–B
BR
J20
Junction Connector
I 4
I 9
Intake Air Temp. Sensor
F14
Fuel Temp. Sensor
W 1
Water Temp. Sensor
T 4
Turbo Pressure Sensor
F13
Fuel Pressure Sensor
EC1
EB1
ID2
IL3
MREL
SREL
BATT
E2
THA
THF
THW
PIM
VC
PCR
E 7(A), E 8(B), E10(C), E11(D)
Engine ECU
E01
E02
PCV1
COM
PCV2
E2C2
VAS
VCC2
E2C
VCC
VA
S 6
Suction Control Valve No. 1
S 7
Suction Control Valve No. 2
E19
A16
Accelerator Pedal Position Sensor
EE


B–W
E22
BR
A 3
Air Flow Meter
V 1
VRV (EGR)
E 2
EGR Valve Control Motor
V 3
VSV (Turbo Pressure Sensor)
D 1
Diesel Throttle Control Motor
G–W
B–Y
Y–G
W–R
R
L–O
B–O
L–B
R–Y
VG
THAF
EVG
VNT
EGR+A
EGR+B
EGR–A
EGR–B
PA
LU+A
LU+B
LU–A
LU–B
E 7(A), E 8(B), E10(C), E11(D)
Engine ECU
DF
ACT
AC1
DM
IMO
IMI
L
R–W
J16
Junction Connector
S34(A), S35(B)
Short Connector
EFII
EFIO
T 8
Transponder Key Computer
M
A 9
Alternator
A12(A)
A/C Amplifier
TAV
R 4
Radio and Player

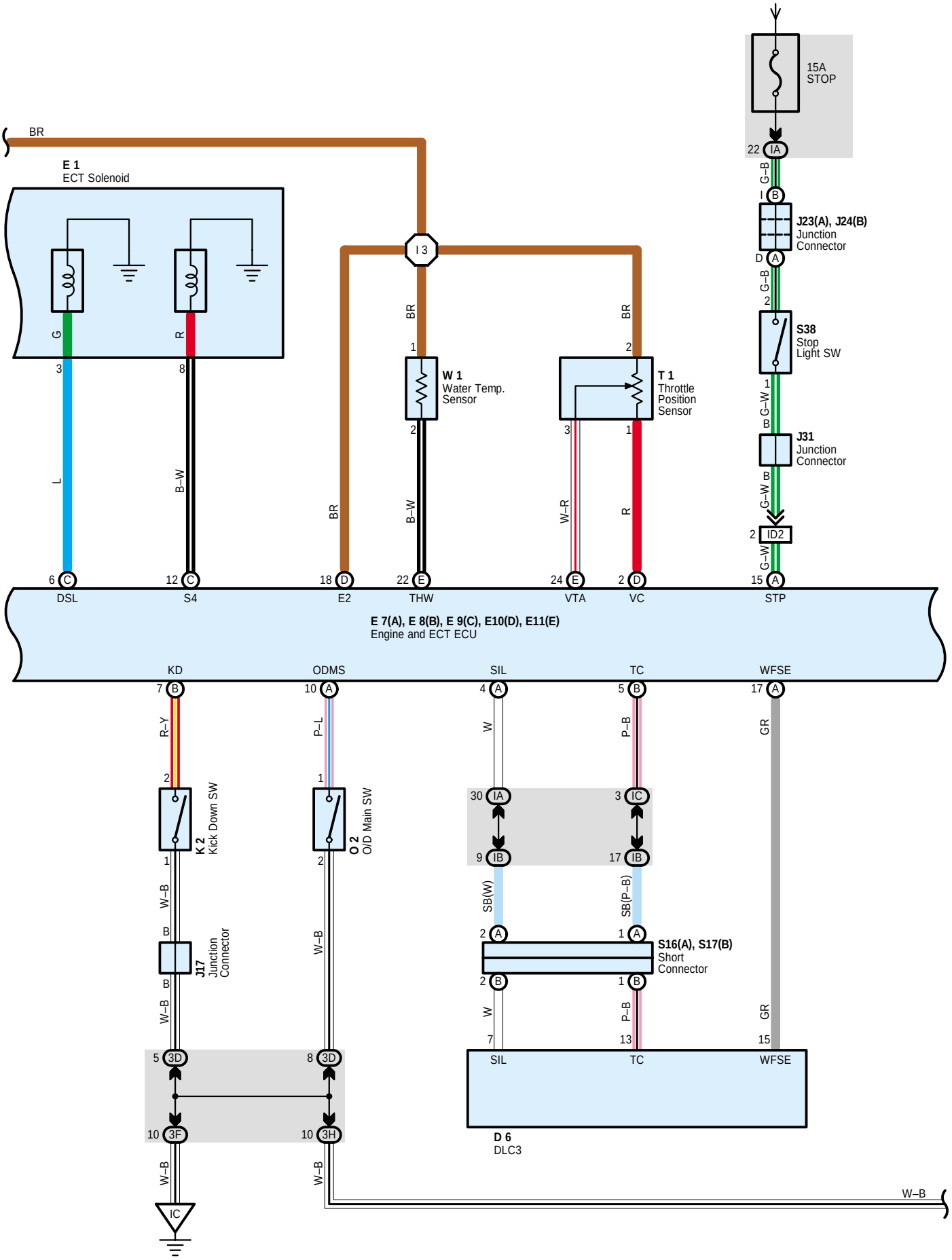

From Power Source System (See Page 74)
7. 5A
ST
10A
IGN
15A
STOP
GR
B–O
G–B
S32(A), S33(B)
Short
Connector
J16
Junction
Connector
S38
Stop
Light SW
G–W
R–W
G
B–R
IL3
STA
IGSW
ST1–
STP
E 7(A), E 8(B), E10(C), E11(D)
Engine ECU
SP1
THWO
GIND
W
TACH
HSW
SIL
TC
W–R
G–W
L–Y
R–B
W–L
P–B
W
I11
Idle–Up
SW
SB(P–B)
W–B
L–Y
G–W
W–R


From Power Source System (See Page 74)
7. 5A OBD
7. 5A MET–IG
F19 Fuse Holder
7. 5A GAUGE
7. 5A ECU–B
ID2
D 6 DLC3
BATT
TC
SIL
CG
TAC
S16(A), S17(B) Short Connector
J16 Junction Connector
J3 Junction Connector
J26(A), J27(B) Junction Connector
C 8(A) Combination Meter
Check Engine
Glow
Speedometer
Tachometer
IC
B
B–O
SB(B–R)
SB(V)
B–R
V
SB
(P–B)
W
W–B
W–L
R–B
L–Y
G–W
W–R

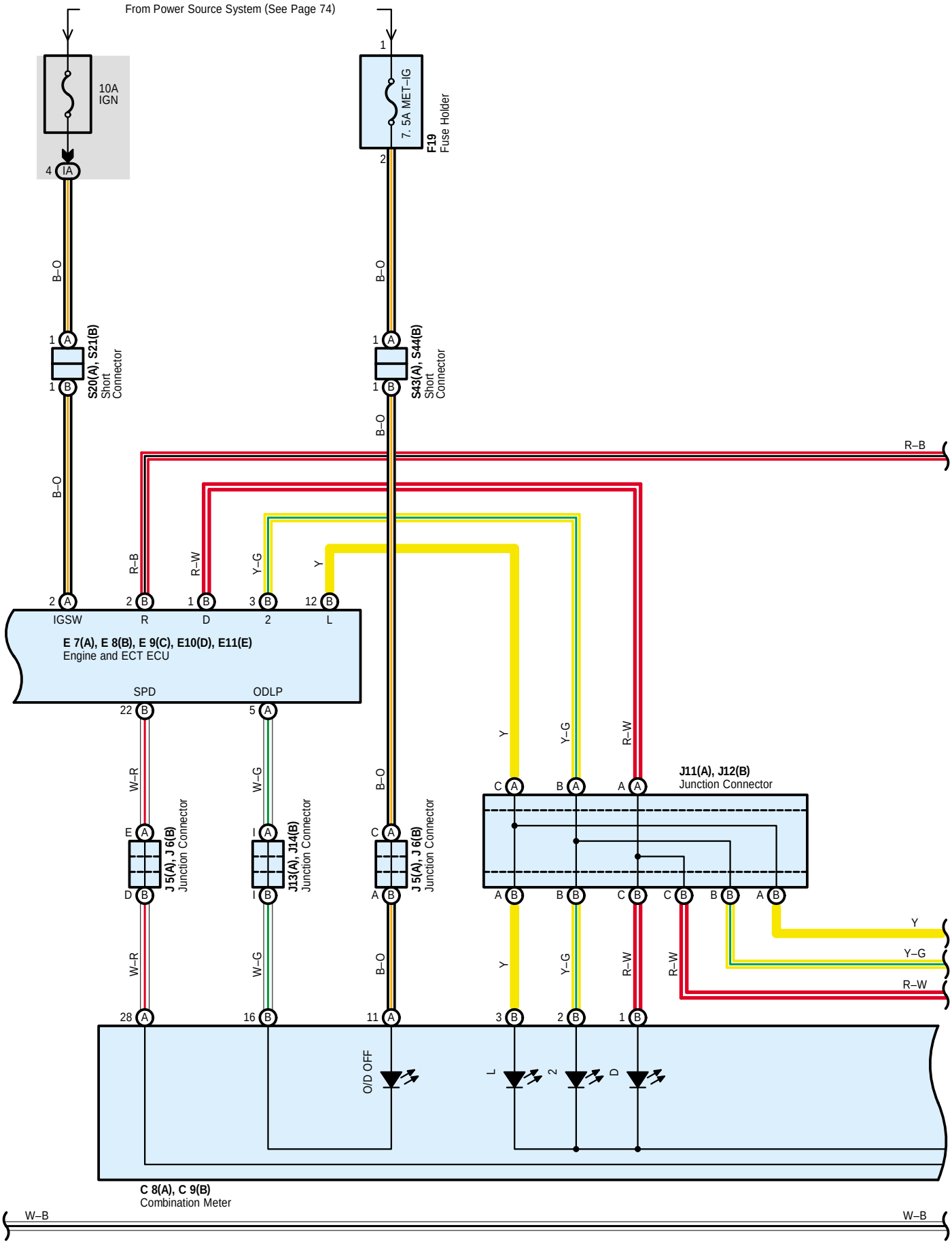
ECT and A/T Indicator (LHD)



From Power Source System (See Page 74)

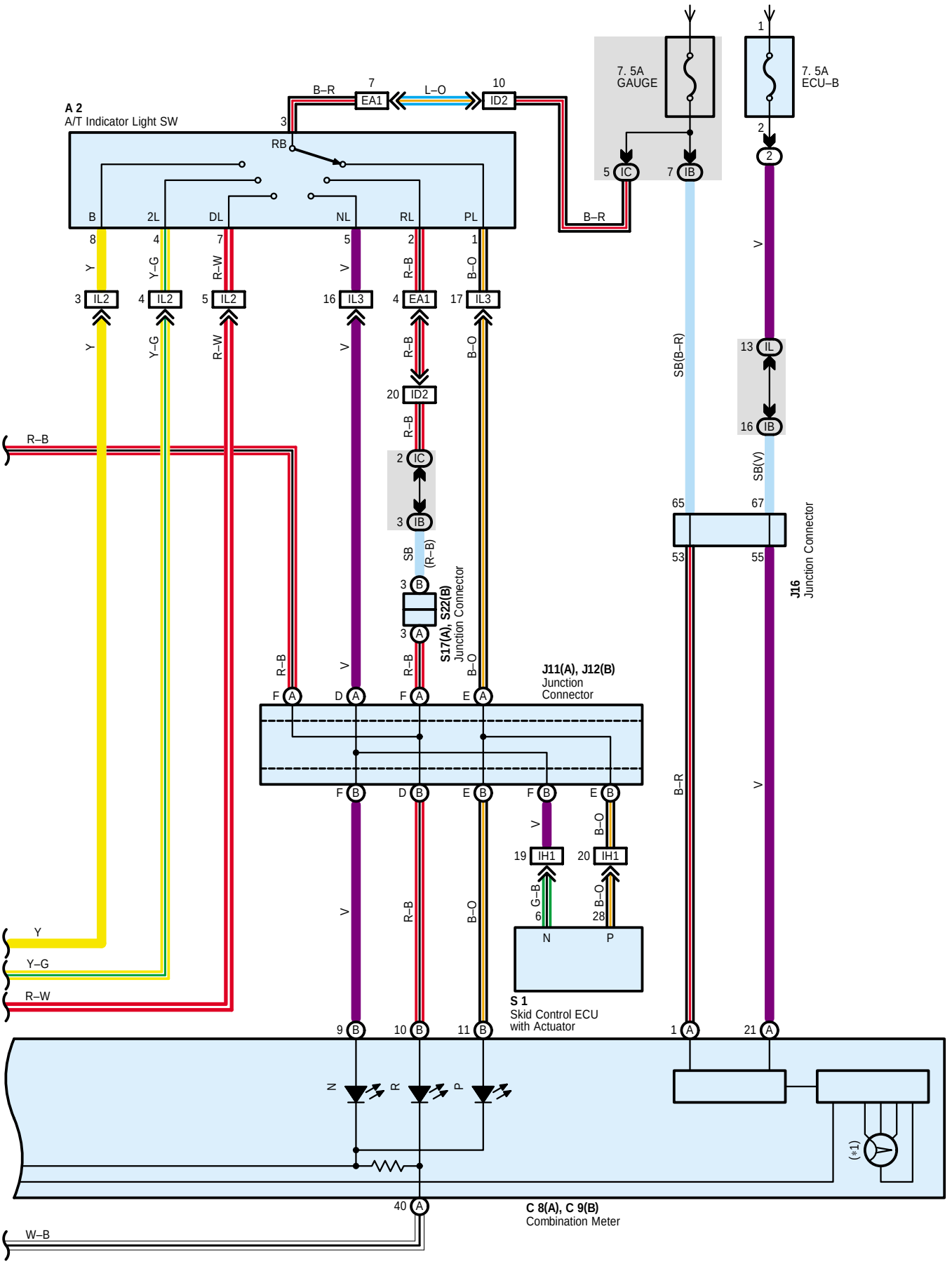


ECT and A/T Indicator (LHD)

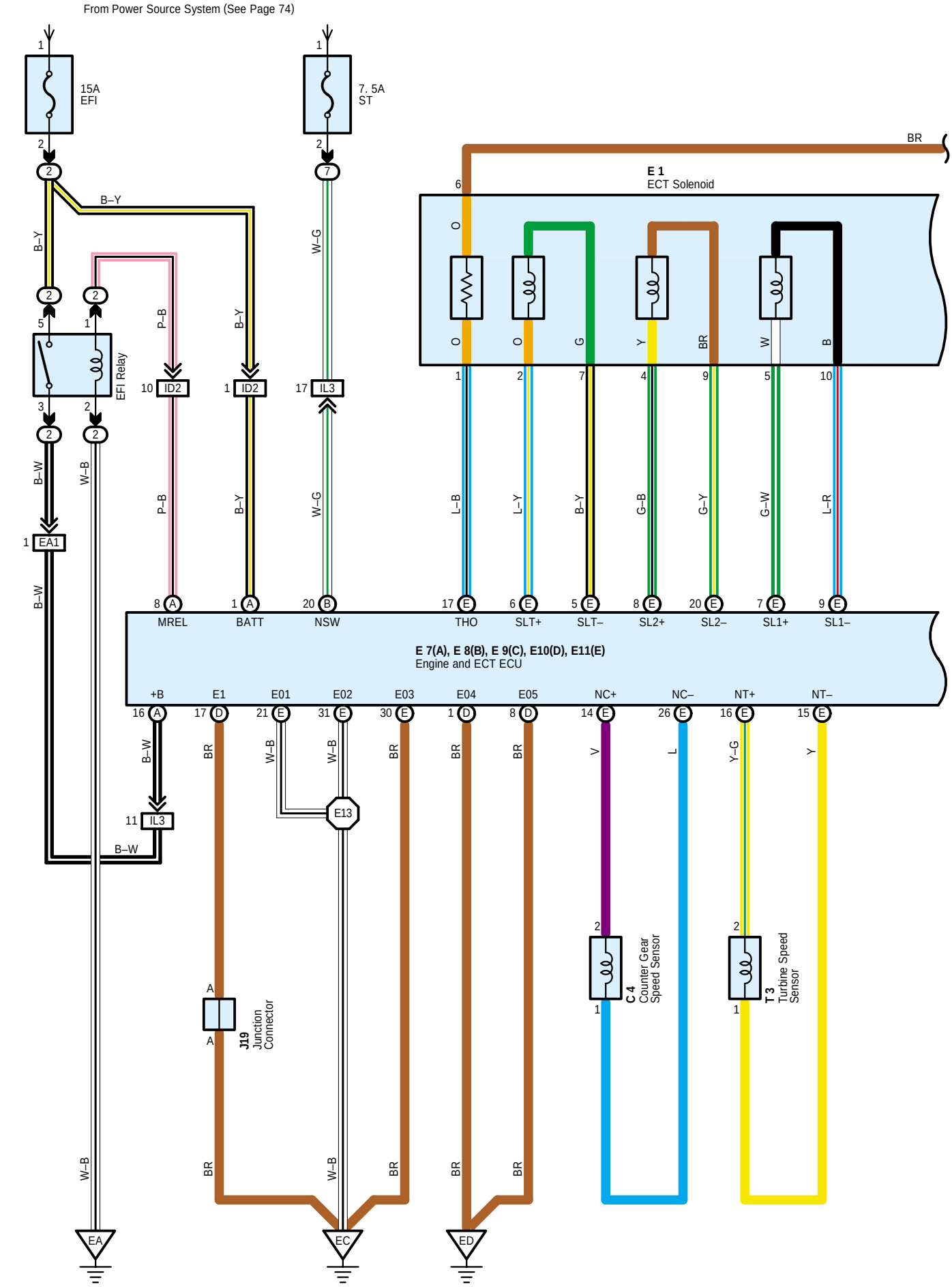


∗ 1 : Speedometer

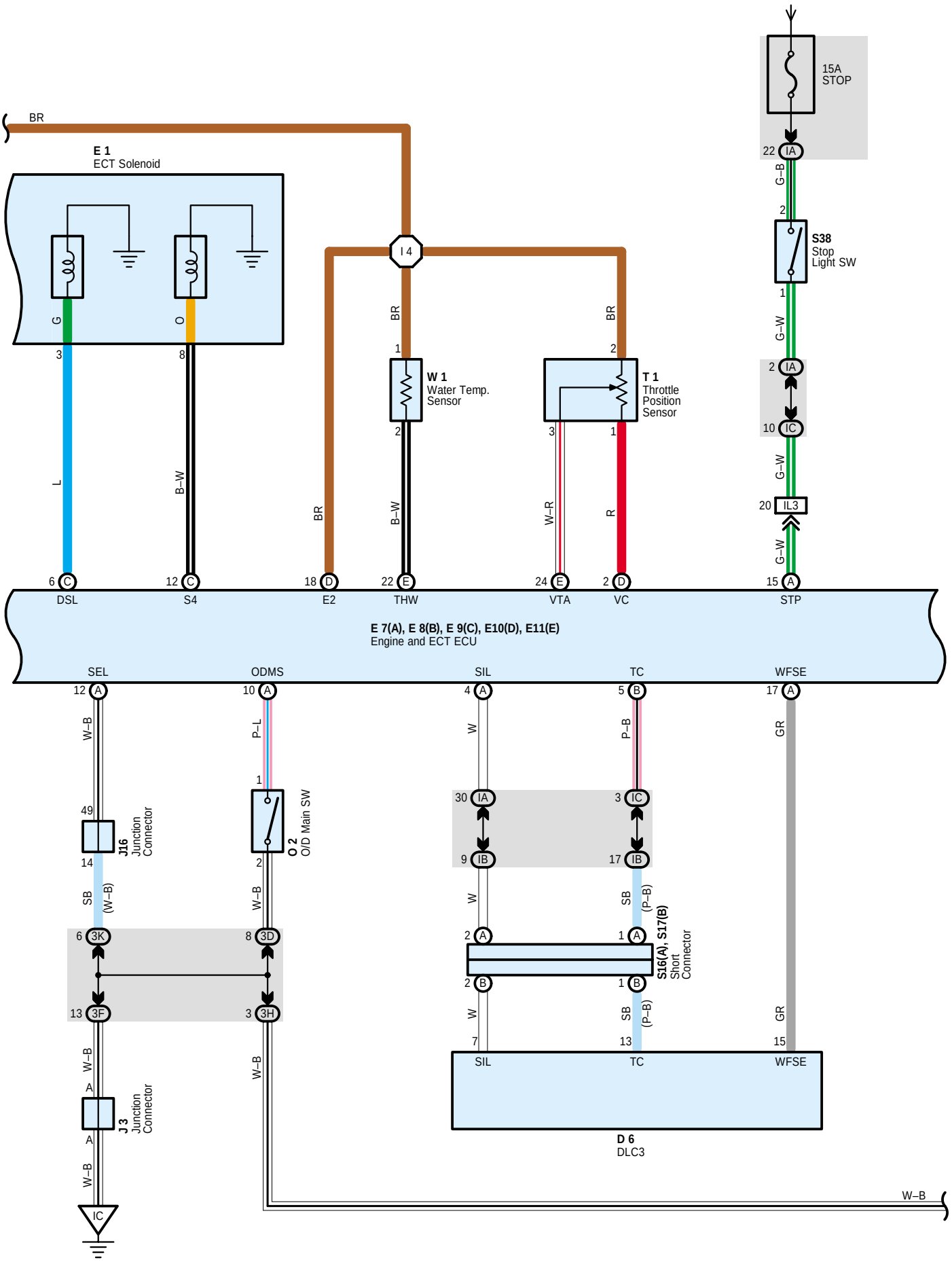
From Power Source System (See Page 74)



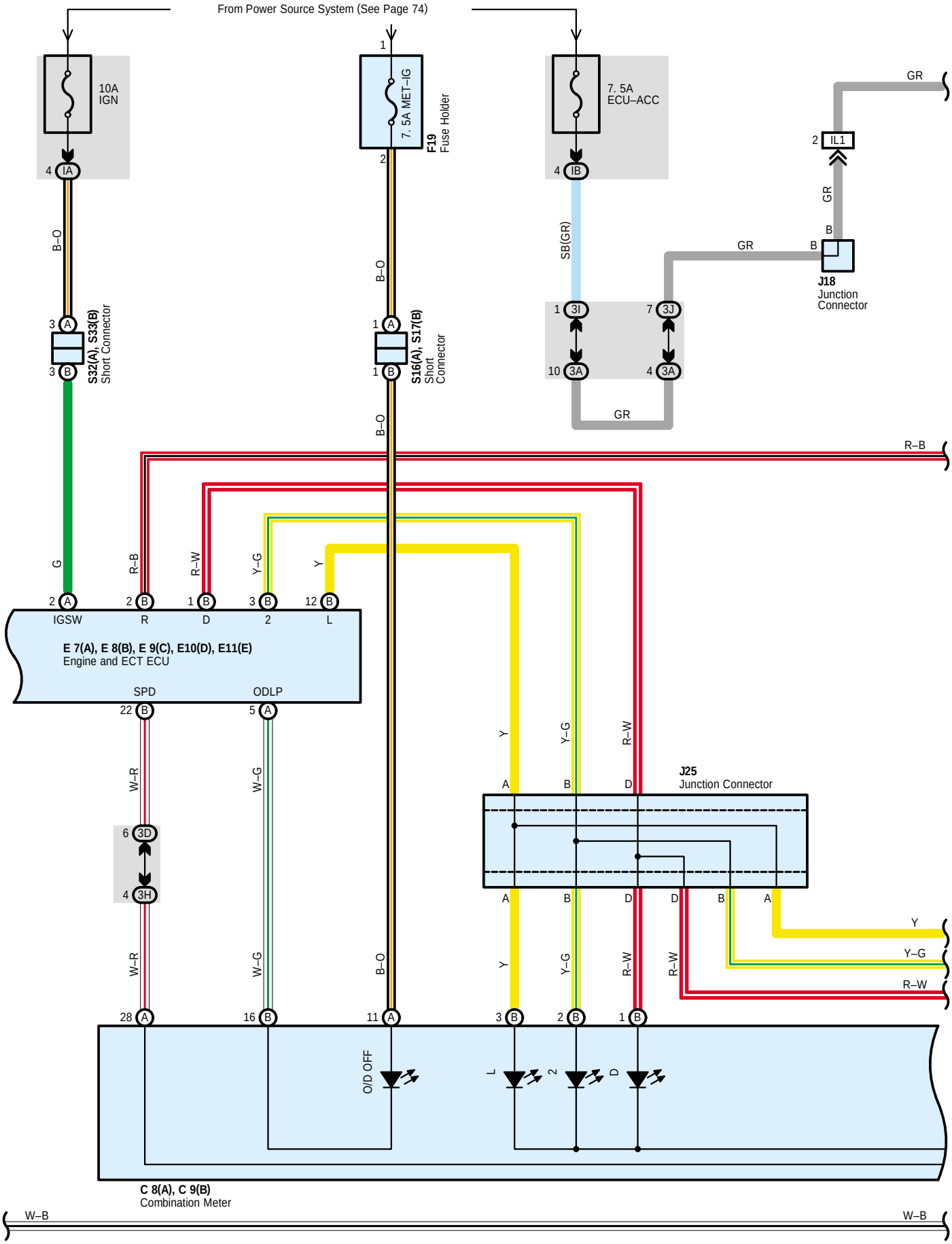
ECT and A/T Indicator (RHD)

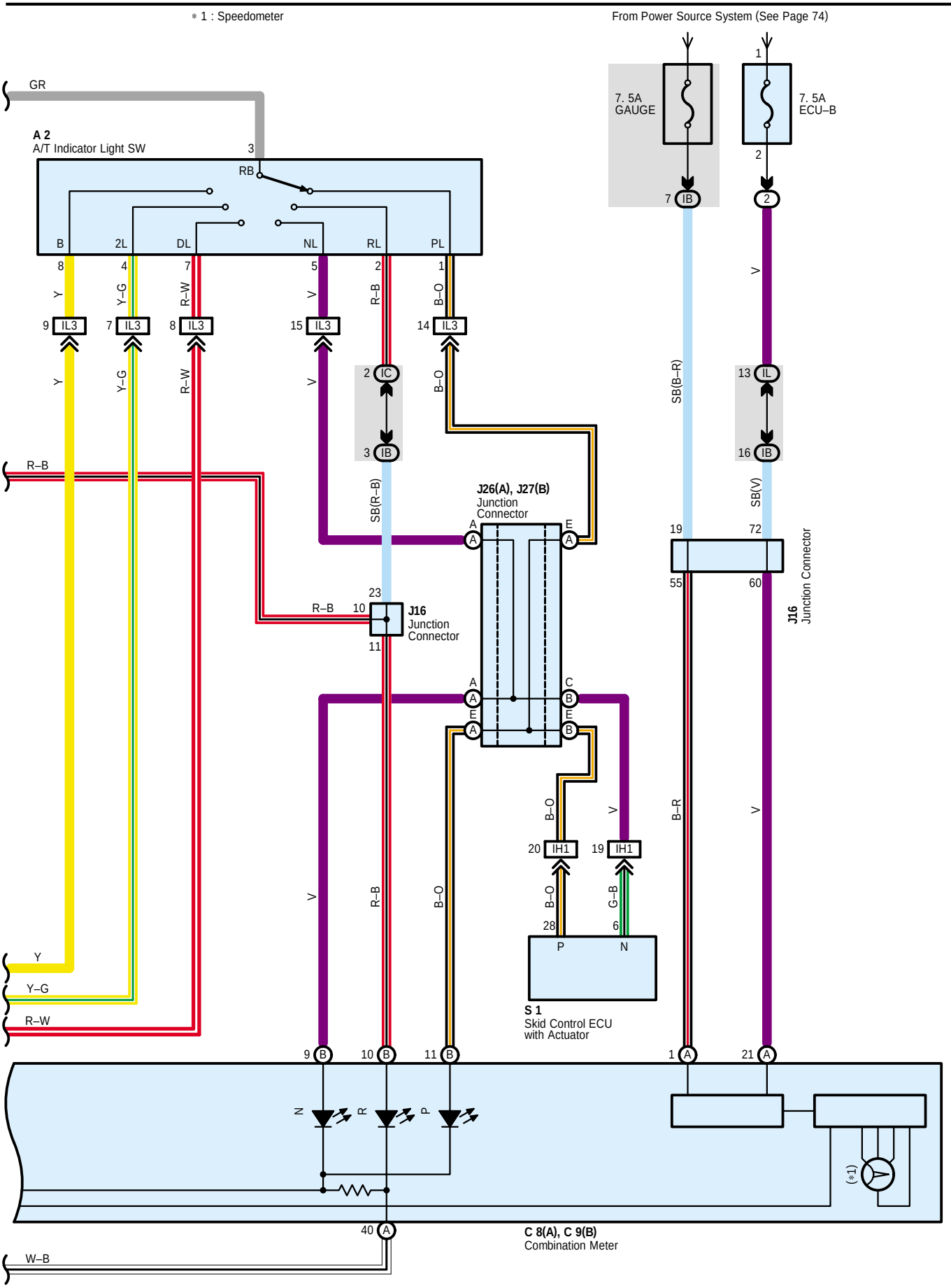


From Power Source System (See Page 74)

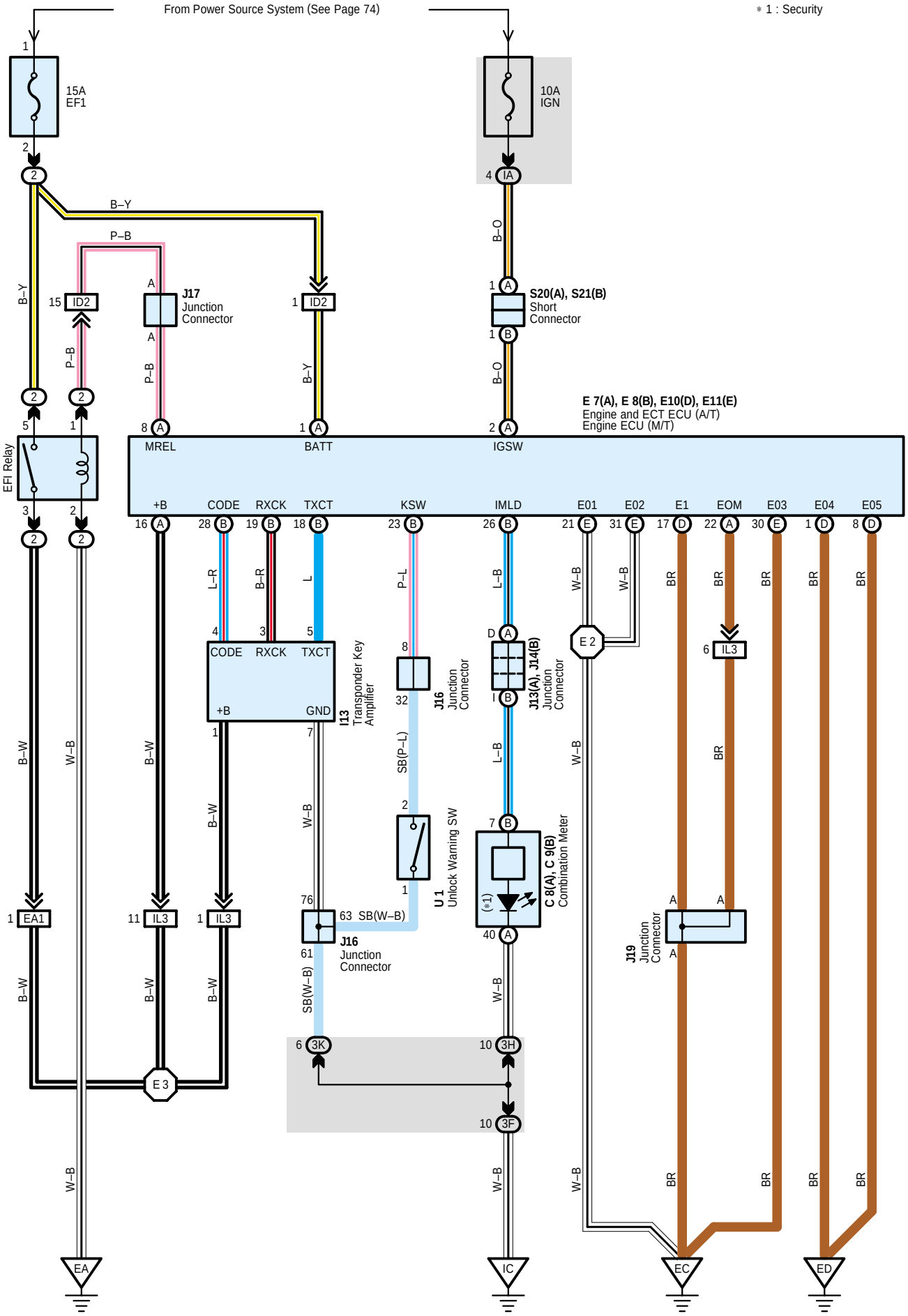


ECT and A/T Indicator (RHD)

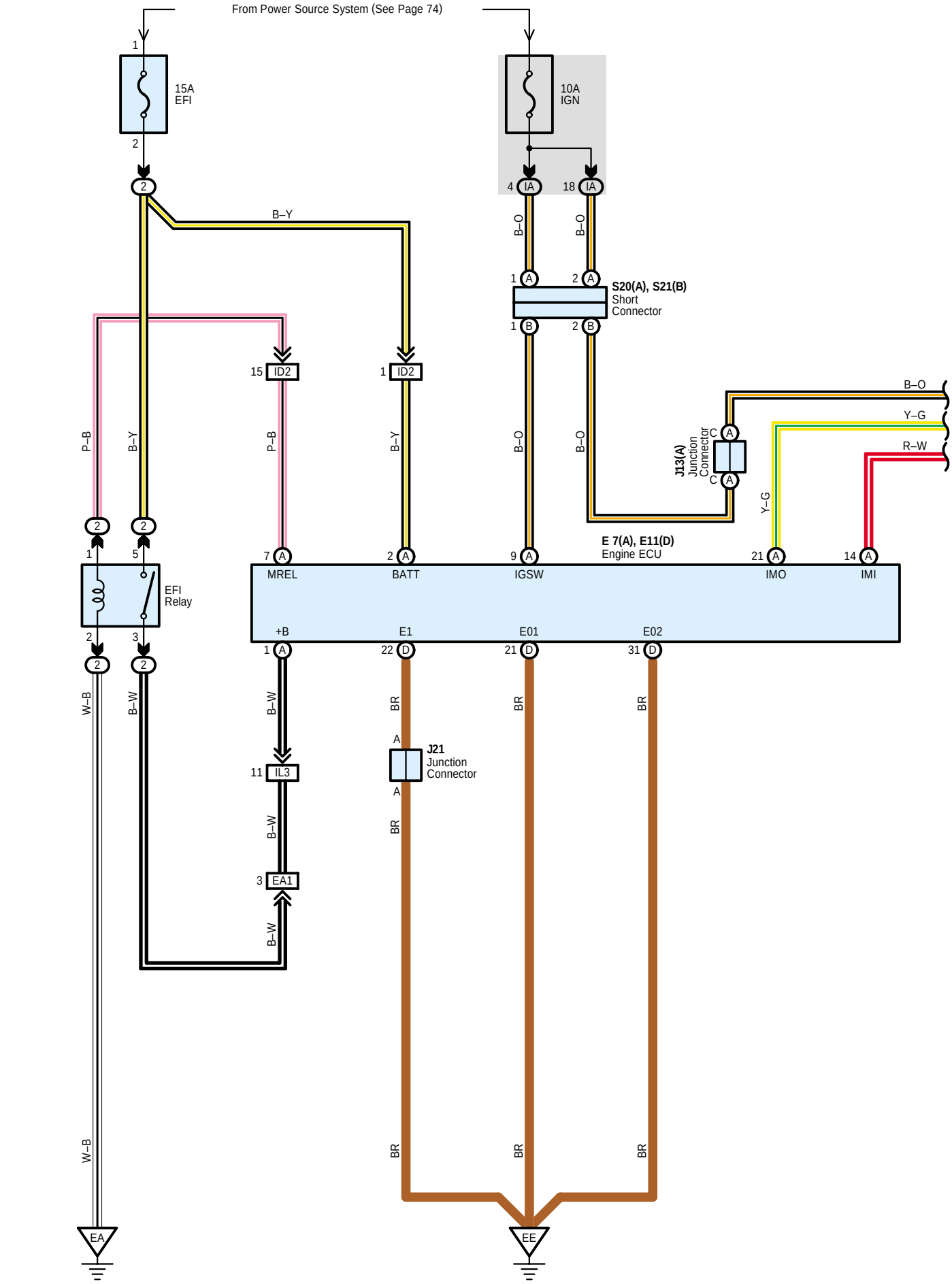


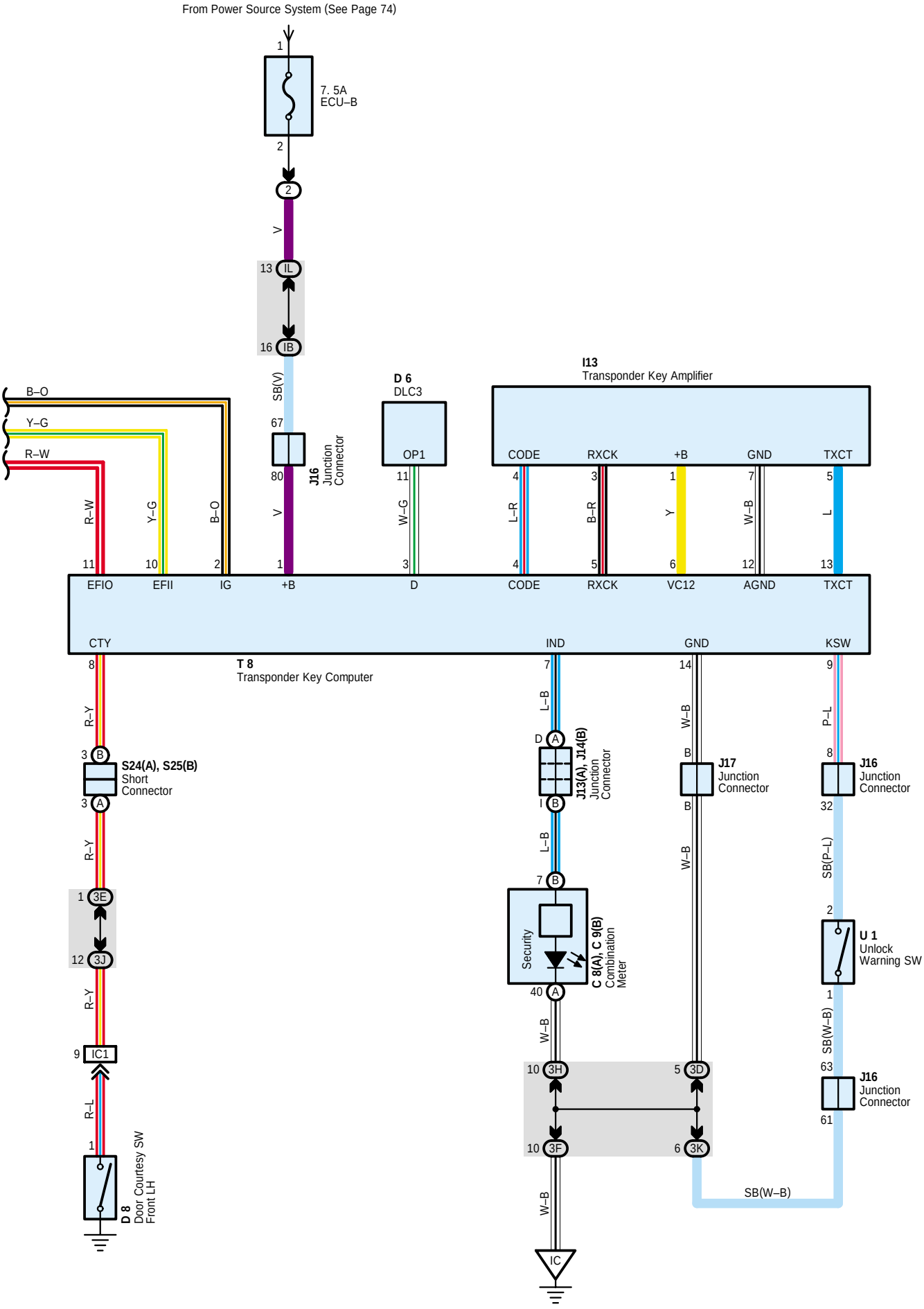

∗ 1 : Speedometer
From Power Source System (See Page 74)
GR
A 2
A/T Indicator Light SW
RB
B
2L
DL
NL
RL
PL
7. 5A
GAUGE
7. 5A
ECU–B
IB
IL3
IC
IL
Y
Y–G
R–W
V
R–B
B–O
SB(R–B)
SB(B–R)
SB(V)
J26(A), J27(B)
Junction
Connector
J16
Junction
Connector
IH1
B–R
G–B
S 1
Skid Control ECU
with Actuator
C 8(A), C 9(B)
Combination Meter
W–B
(∗1)

Engine Immobiliser System (LHD 1AZ–FE)

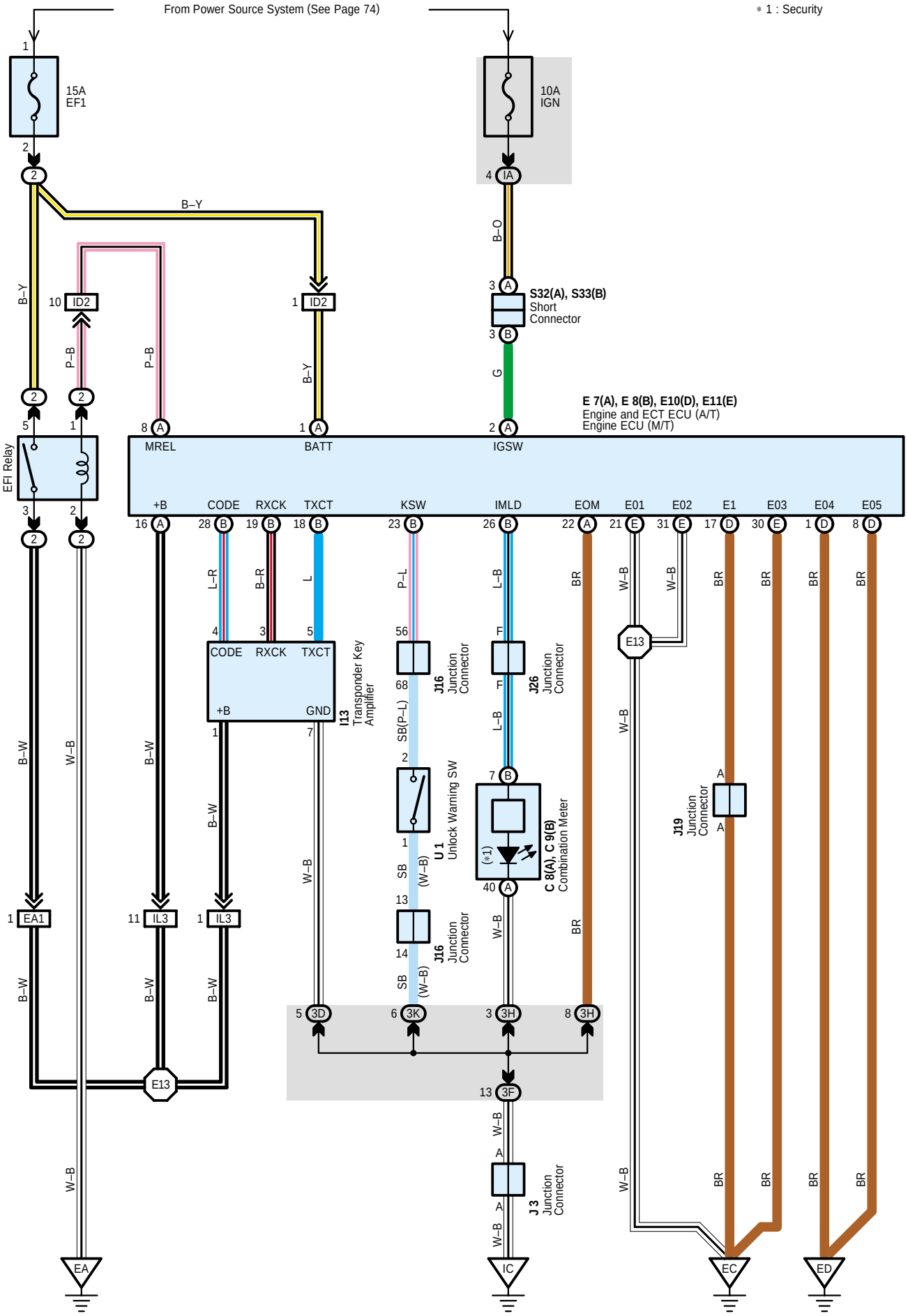


Engine Immobiliser System (LHD 1CD–FTV)

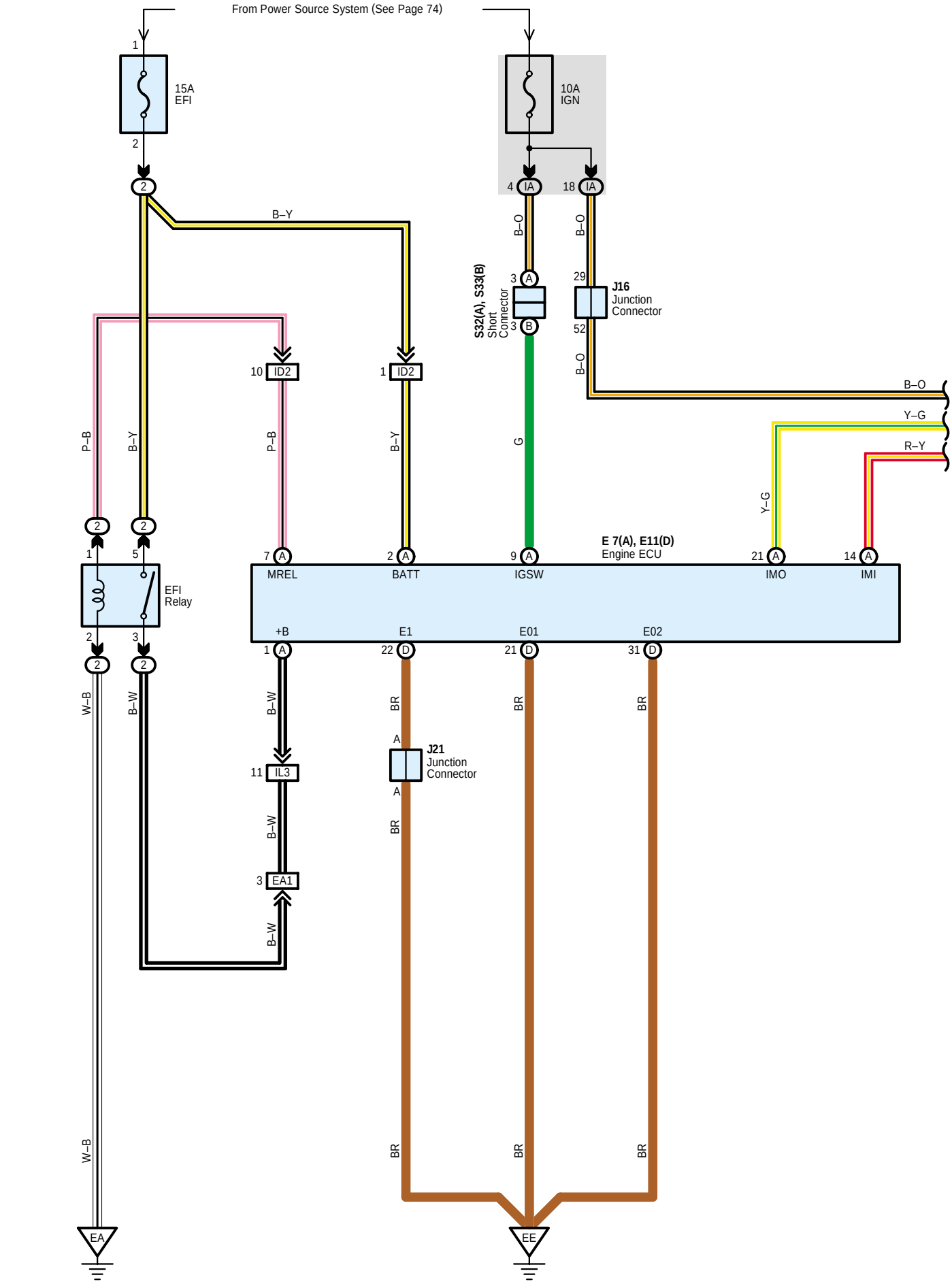


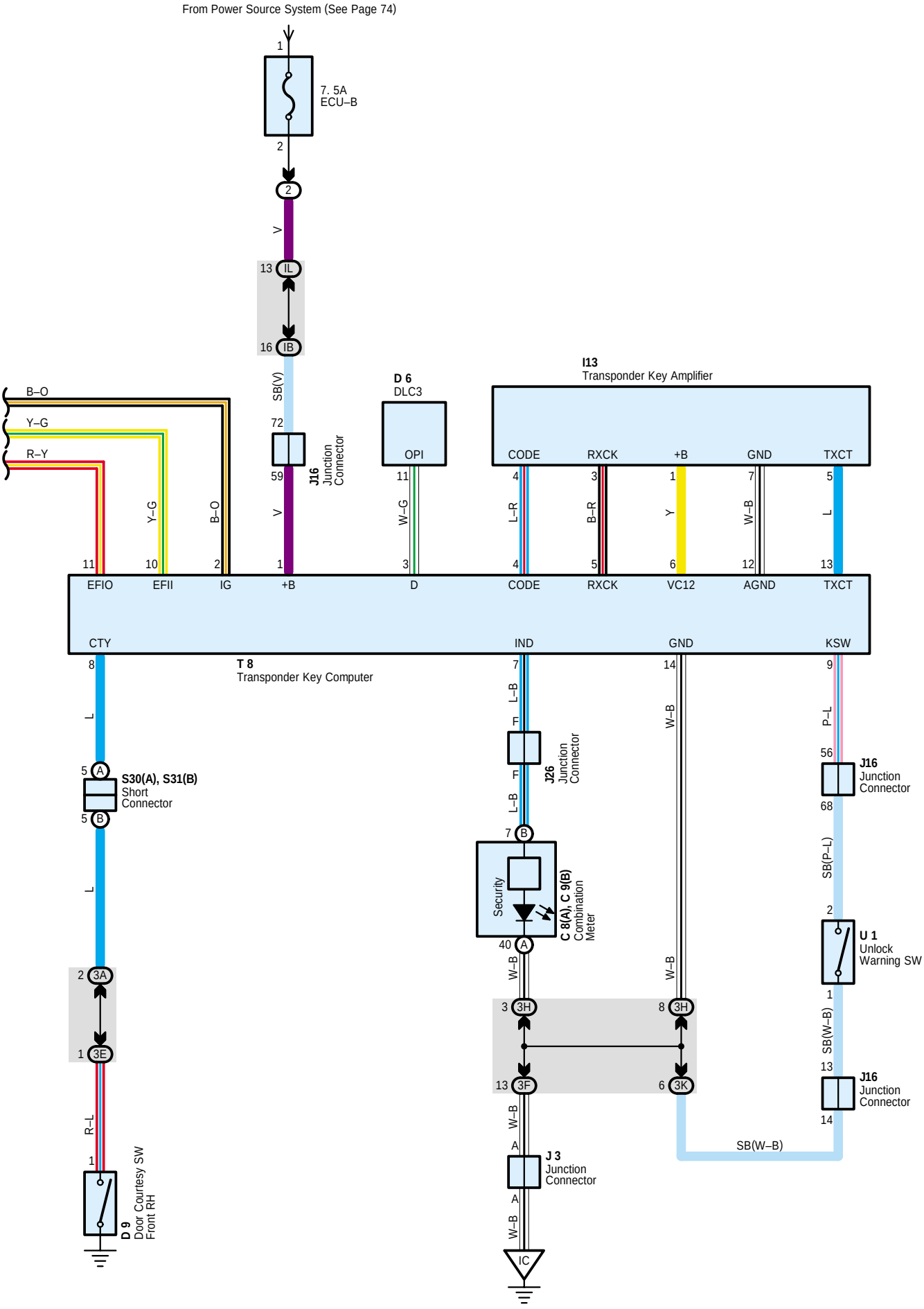

From Power Source System (See Page 74)
7. 5A
ECU–B
V
SB(V)
J16
Junction
Connector
D 6
DLC3
OP1
I13
Transponder Key Amplifier
CODE
RXCK
+B
GND
TXCT
B–O
Y–G
R–W
W–G
L–R
B–R
Y
W–B
L
EFIO
EFII
IG
+B
D
CODE
RXCK
VC12
AGND
TXCT
CTY
IND
GND
KSW
T 8
Transponder Key Computer
R–Y
S24(A), S25(B)
Short
Connector
3E
3J
IC1
R–L
D 8
Door Courtesy SW
Front LH
L–B
J13(A), J14(B)
Junction
Connector
Security
C 8(A), C 9(B)
Combination
Meter
W–B
3H
3F
3D
3K
IC
J17
Junction
Connector
P–L
SB(P–L)
SB(W–B)
J16
Junction
Connector
U 1
Unlock
Warning SW

Engine Immobiliser System (RHD 1AZ–FE)

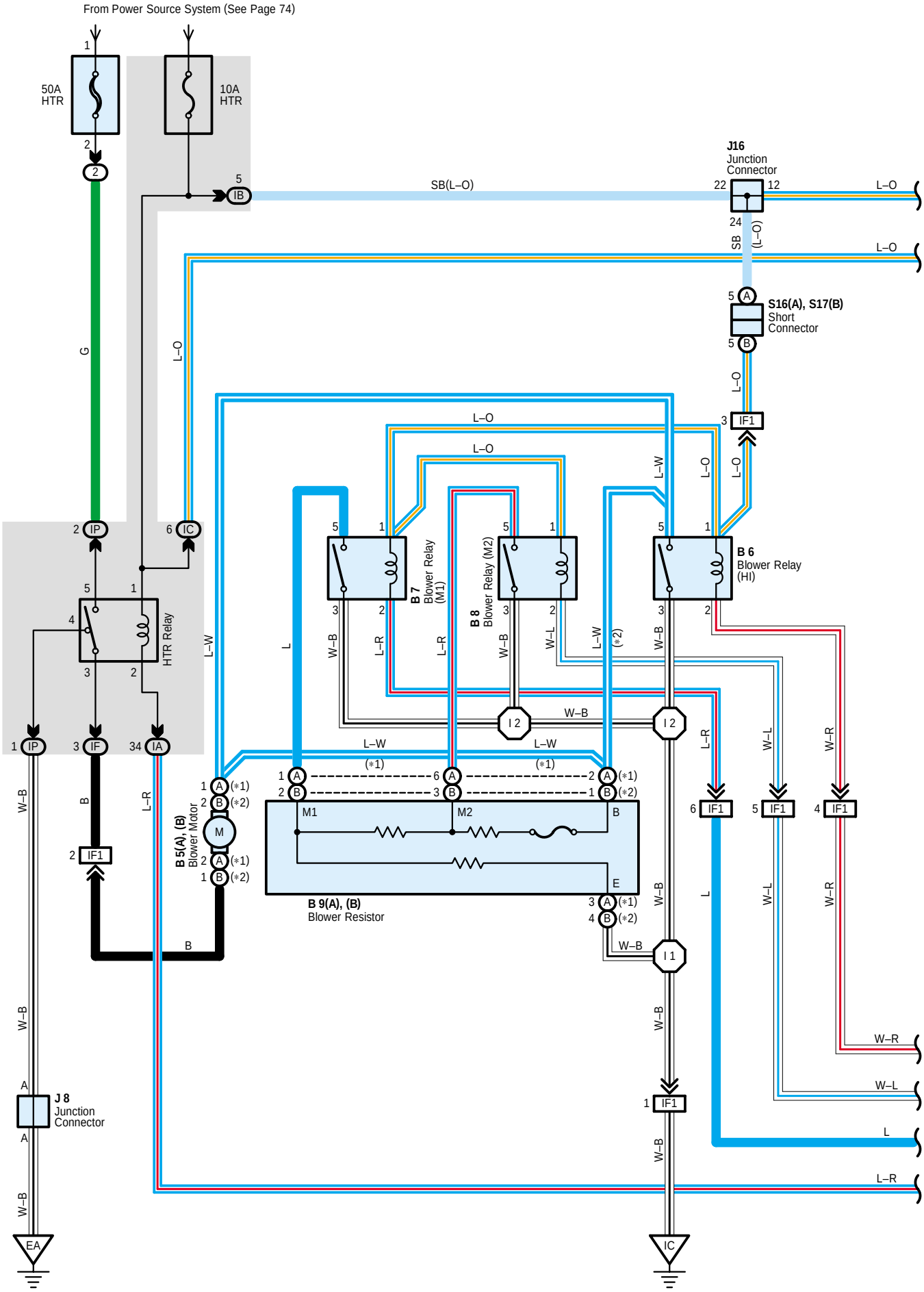


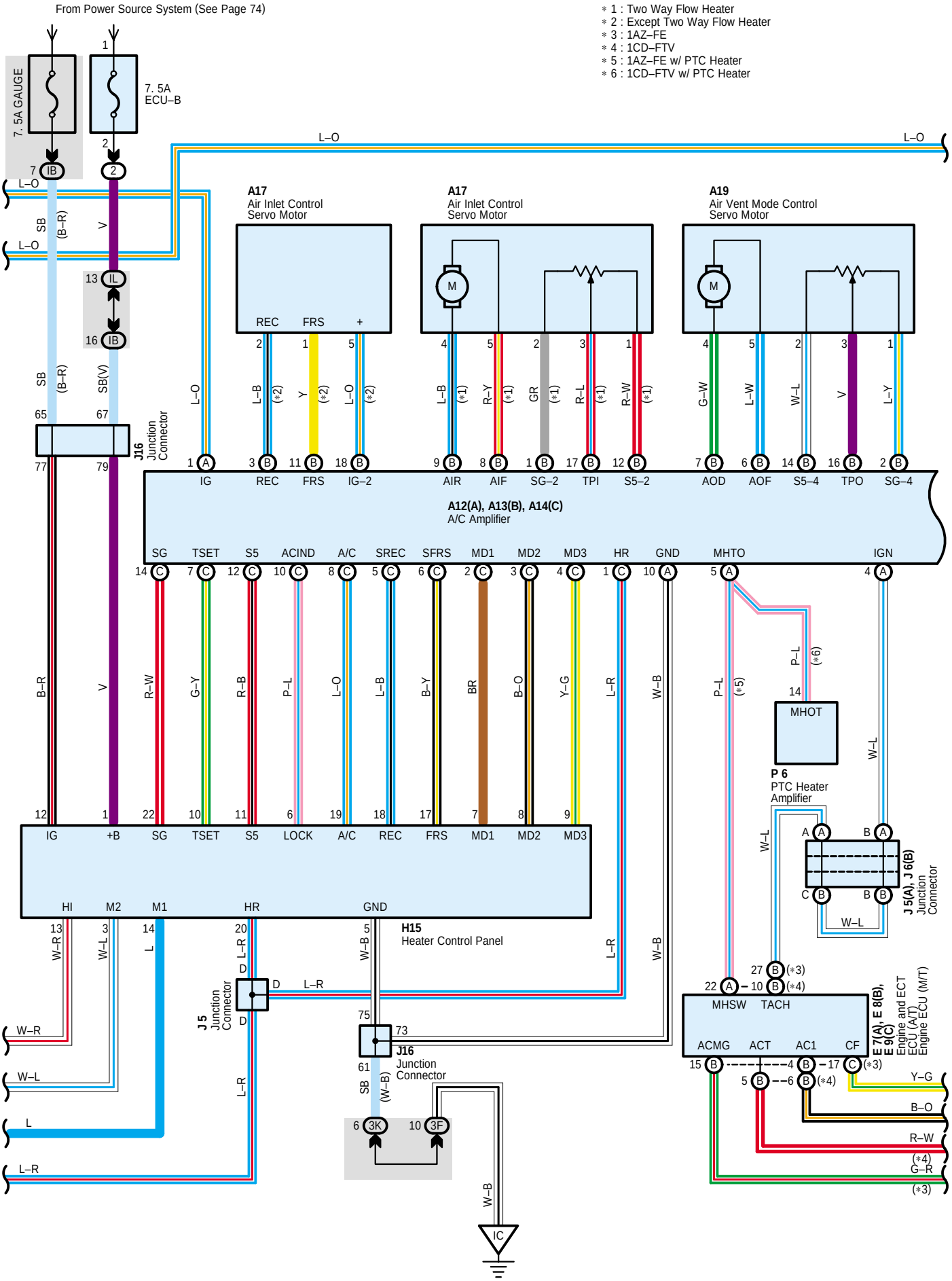
Engine Immobiliser System (RHD 1CD–FTV)



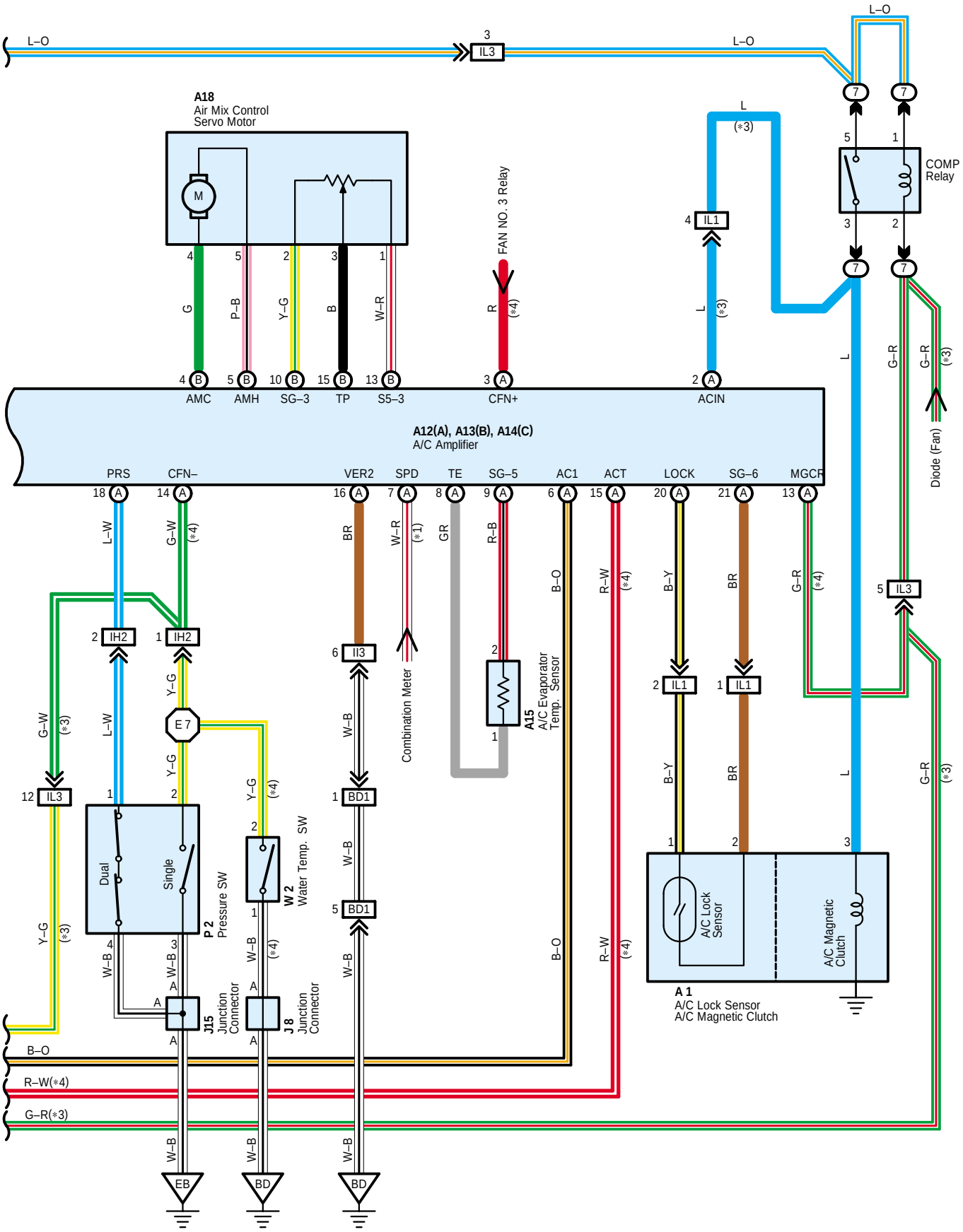

From Power Source System (See Page 74)
1
7. 5A
ECU–B
2
2
V
13 IL
16 IB
SB(V)
72
59
J16
Junction Connector
V
D 6
DLC3
OPI
11
W–G
3
I13
Transponder Key Amplifier
CODE
RXCK
+B
GND
TXCT
4
3
1
7
5
L–R
B–R
Y
W–B
L
4
5
6
12
13
B–O
Y–G
R–Y
11
10
2
1
EFIO
EFII
IG
+B
D
CODE
RXCK
VC12
AGND
TXCT
CTY
IND
GND
KSW
T 8
Transponder Key Computer
8
L
5 A
S30(A), S31(B)
Short Connector
5 B
L
2 3A
1 3E
R–L
1
D 9
Door Courtesy SW
Front RH
7
L–B
F
J26
Junction Connector
F
L–B
7 B
Security
C 8(A), C 9(B)
Combination Meter
40 A
W–B
3 3H
13 3F
W–B
A
J 3
Junction Connector
A
W–B
IC
14
W–B
W–B
8 3H
6 3K
SB(W–B)
9
P–L
56
J16
Junction Connector
68
SB(P–L)
2
U 1
Unlock Warning SW
1
SB(W–B)
13
J16
Junction Connector
14

Front Air Conditioner (LHD)

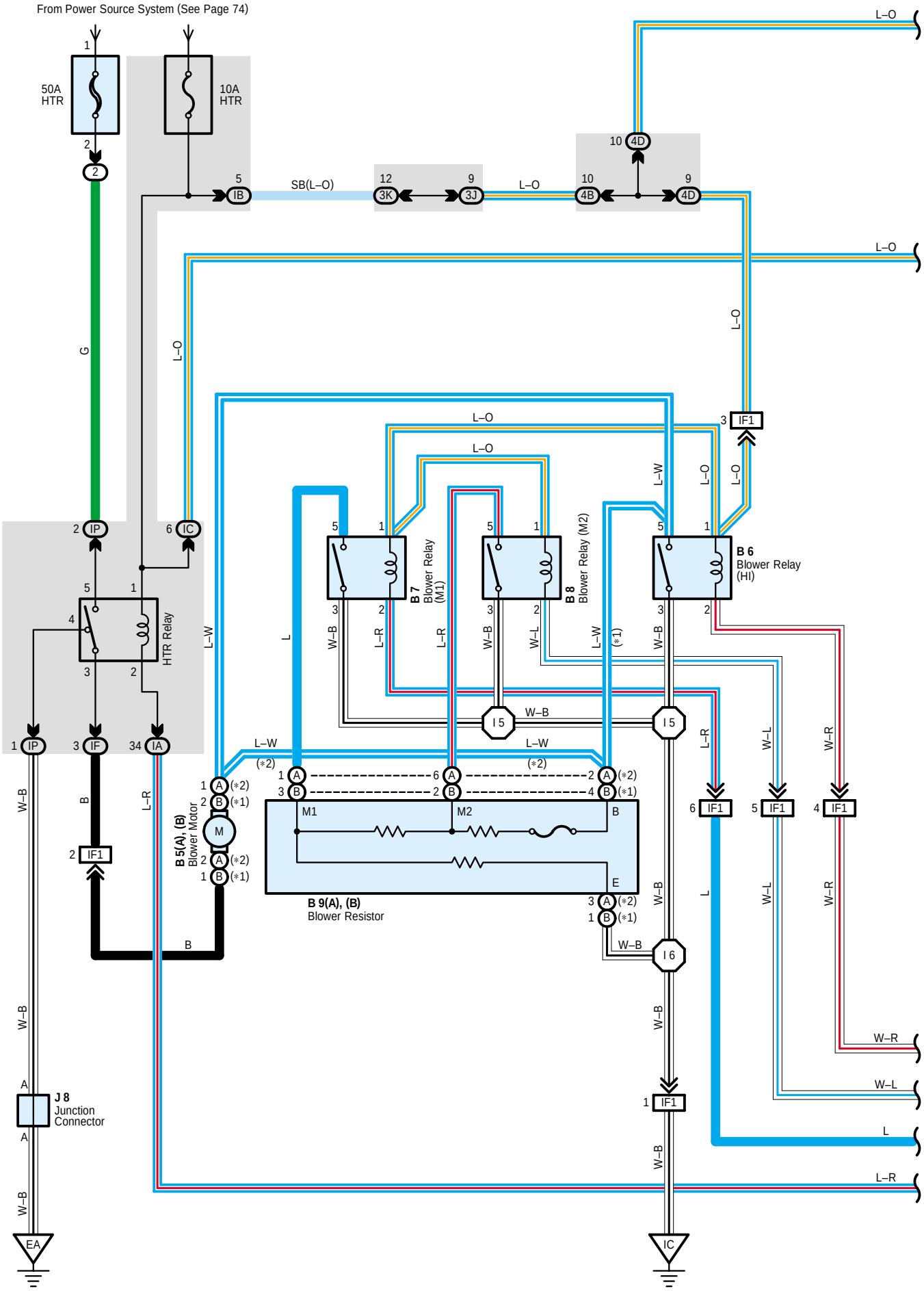


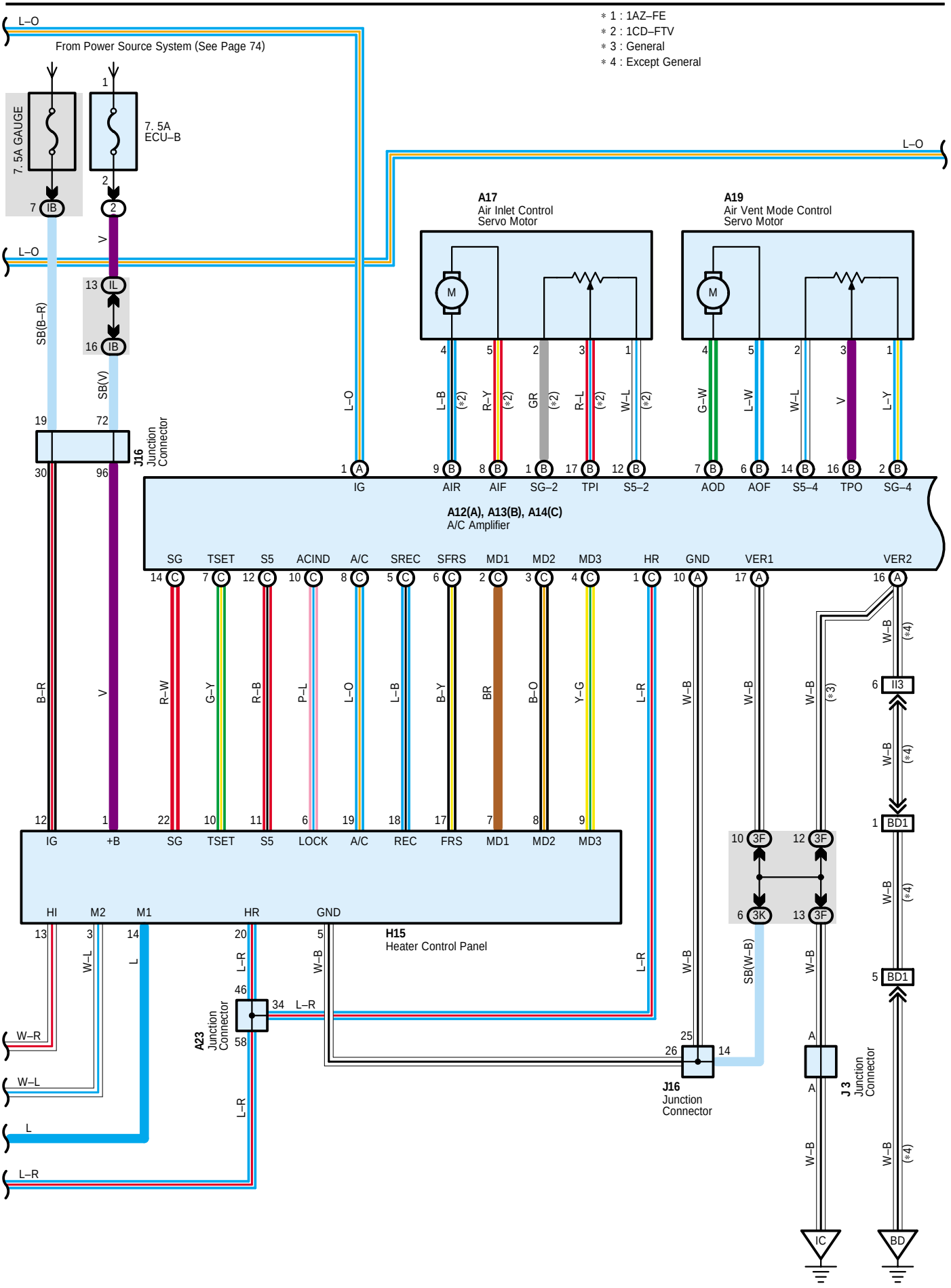

From Power Source System (See Page 74)
* 1 : Two Way Flow Heater
* 2 : Except Two Way Flow Heater
* 3 : 1AZ–FE
* 4 : 1CD–FTV
* 5 : 1AZ–FE w/ PTC Heater
* 6 : 1CD–FTV w/ PTC Heater
7. 5A GAUGE
7. 5A ECU–B
A17 Air Inlet Control Servo Motor
A17 Air Inlet Control Servo Motor
A19 Air Vent Mode Control Servo Motor
J16 Junction Connector
A12(A), A13(B), A14(C) A/C Amplifier
IG +B SG TSET S5 LOCK A/C REC FRS MD1 MD2 MD3
HI M2 M1 HR GND
H15 Heater Control Panel
J5 Junction Connector
J16 Junction Connector
P 6 PTC Heater Amplifier
MHOT
J 5(A), J 6(B) Junction Connector
MHSW TACH
ACMG ACT AC1 CF
E 7(A), E 8(B), E 9(C) Engine and ECT ECU (A/T) Engine ECU (M/T)
IC

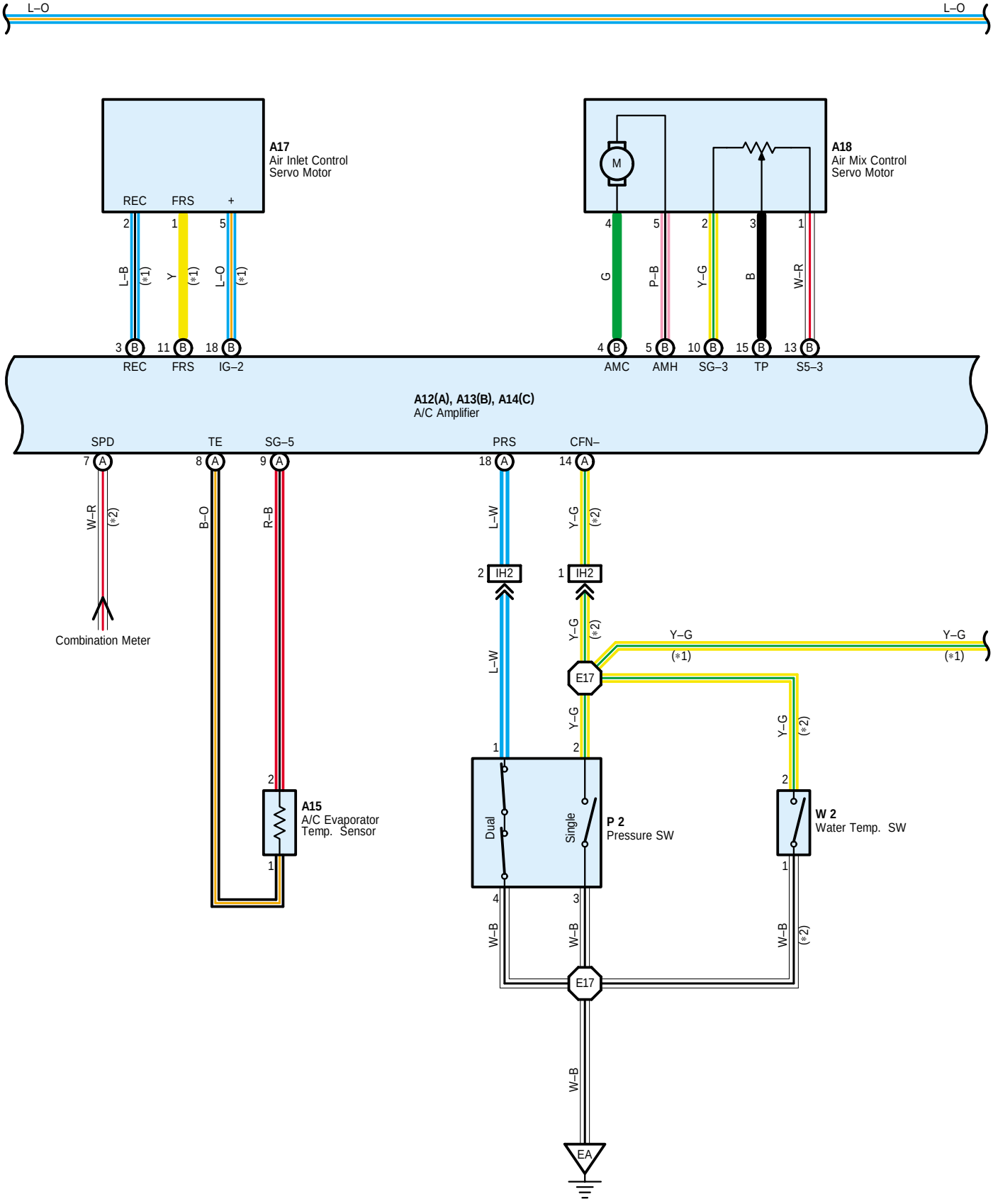
* 1 : Two Way Flow Heater
* 3 : 1AZ–FE
* 4 : 1CD–FTV



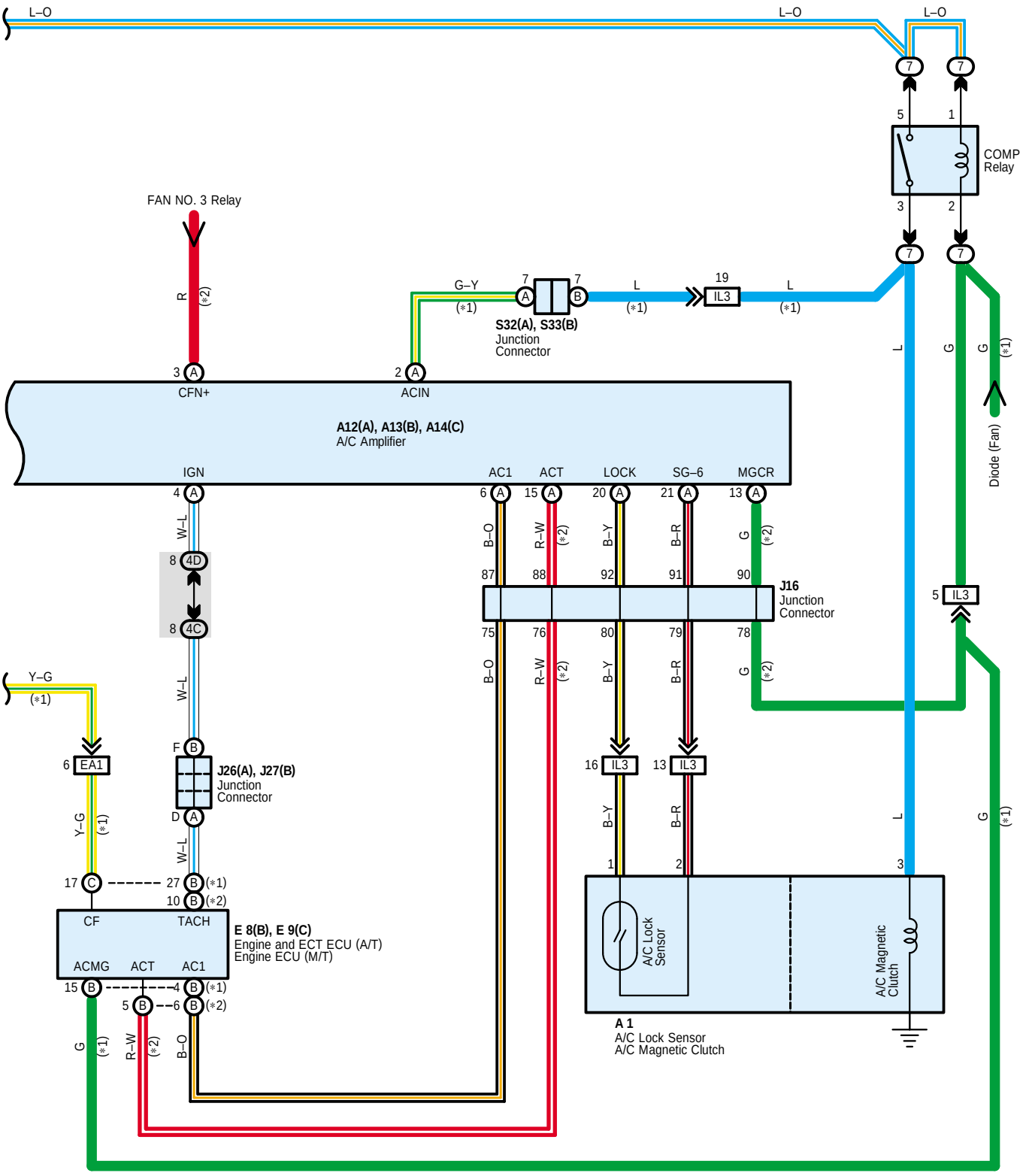
Front Air Conditioner (RHD)



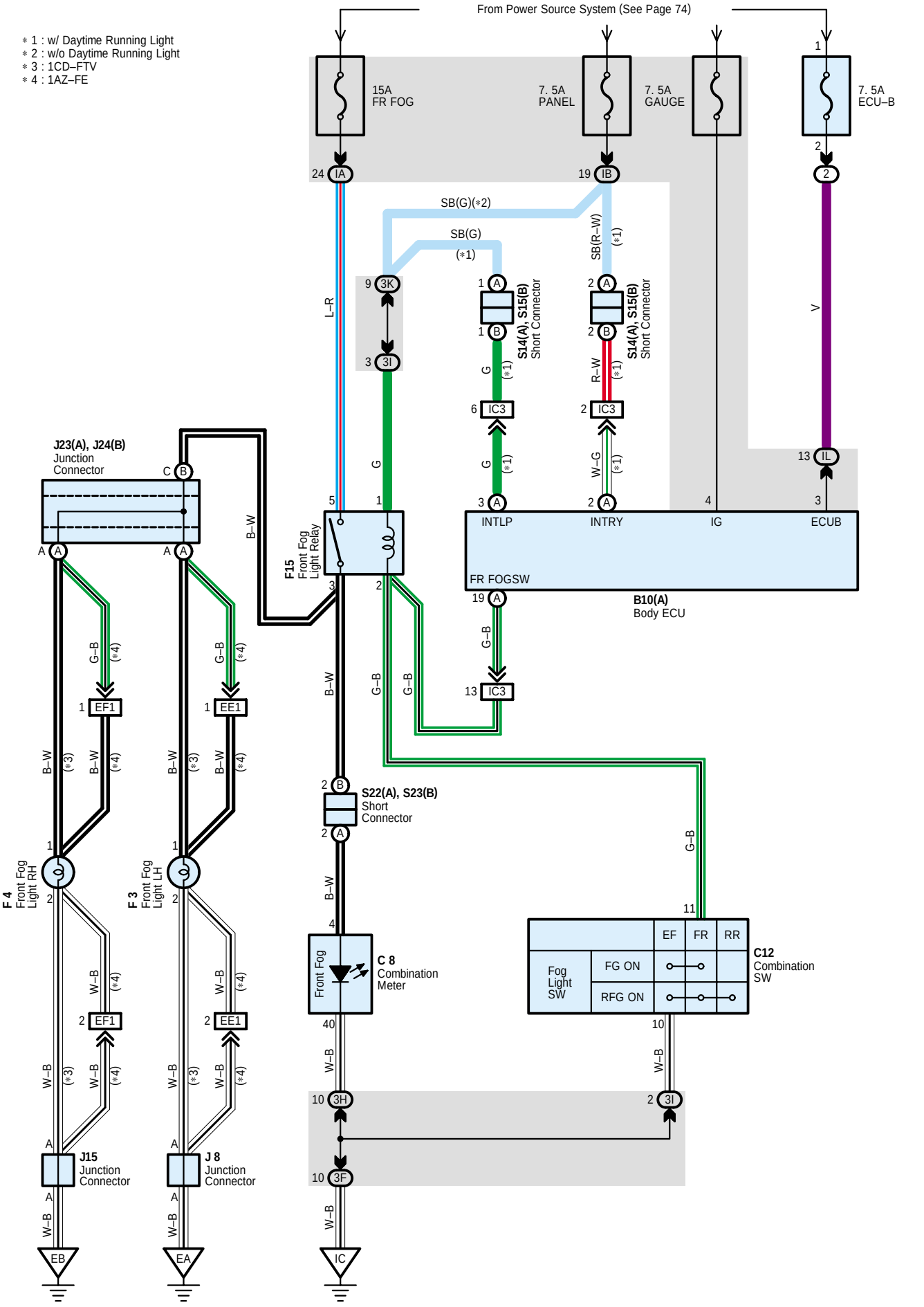

∗ 1 : 1AZ–FE
∗ 2 : 1CD–FTV
∗ 3 : General
∗ 4 : Except General
From Power Source System (See Page 74)
7. 5A GAUGE
7. 5A ECU–B
A17 Air Inlet Control Servo Motor
A19 Air Vent Mode Control Servo Motor
J16 Junction Connector
A12(A), A13(B), A14(C) A/C Amplifier
IG +B SG TSET S5 LOCK A/C REC FRS MD1 MD2 MD3
HI M2 M1 HR GND
H15 Heater Control Panel
A23 Junction Connector
J16 Junction Connector
J3 Junction Connector
IC
BD


L–O
L–O
A17
Air Inlet Control
Servo Motor
REC
FRS
+
2
1
5
L–B
(*1)
Y
(*1)
L–O
(*1)
3 B REC
11 B FRS
18 B IG–2
A18
Air Mix Control
Servo Motor
M
4
5
2
3
1
G
P–B
Y–G
B
W–R
4 B AMC
5 B AMH
10 B SG–3
15 B TP
13 B S5–3
A12(A), A13(B), A14(C)
A/C Amplifier
SPD
TE
SG–5
PRS
CFN–
7 A
8 A
9 A
18 A
14 A
W–R
(*2)
B–O
R–B
L–W
Y–G
(*2)
2 IH2
1 IH2
Combination Meter
Y–G
(*2)
Y–G
(*1)
Y–G
(*1)
E17
L–W
Y–G
Y–G
(*2)
1
2
2
A15
A/C Evaporator
Temp. Sensor
1
Dual
Single
P 2
Pressure SW
W 2
Water Temp. SW
4
3
1
W–B
W–B
W–B
(*2)
E17
W–B
EA

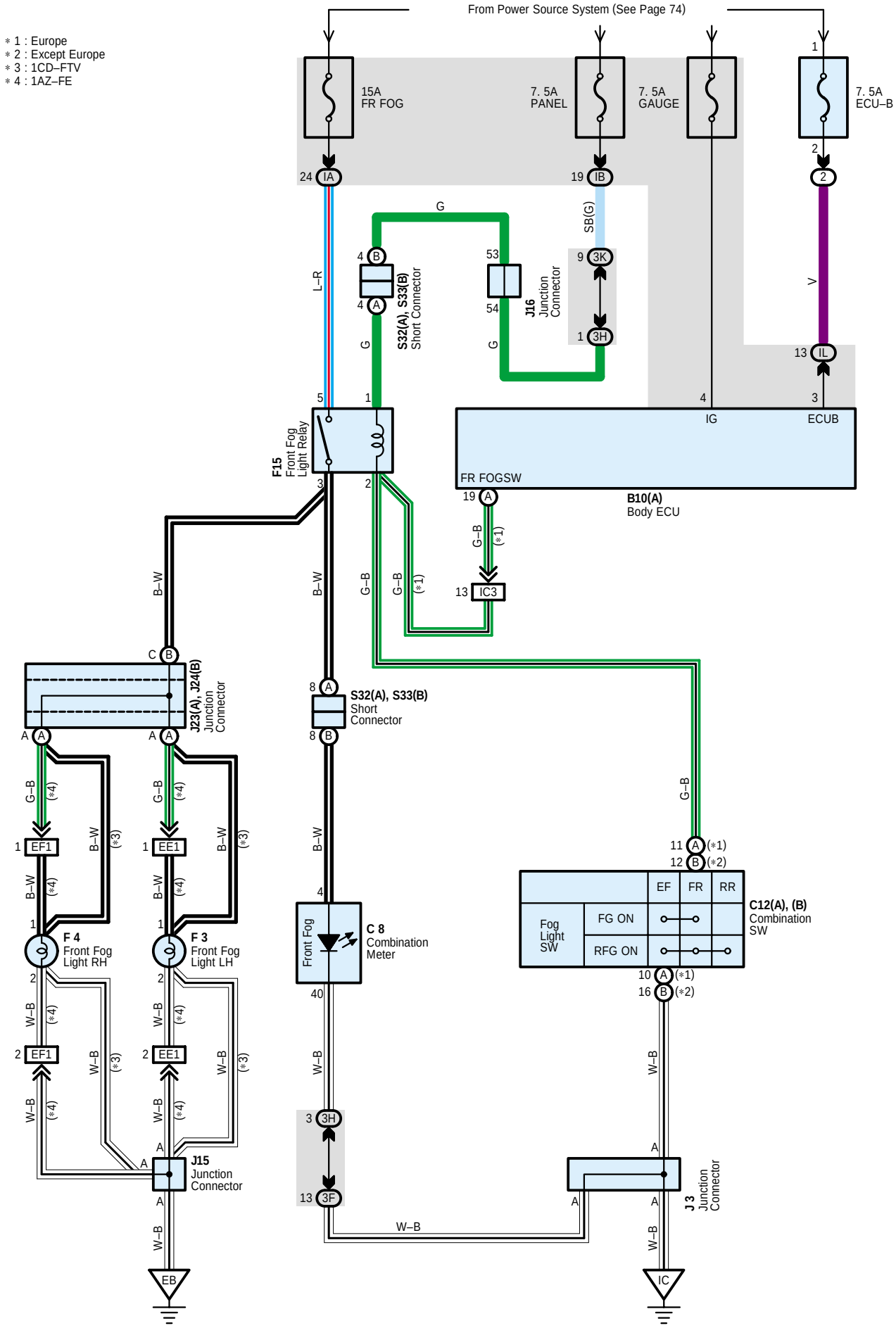
∗ 1 : 1AZ–FE
∗ 2 : 1CD–FTV



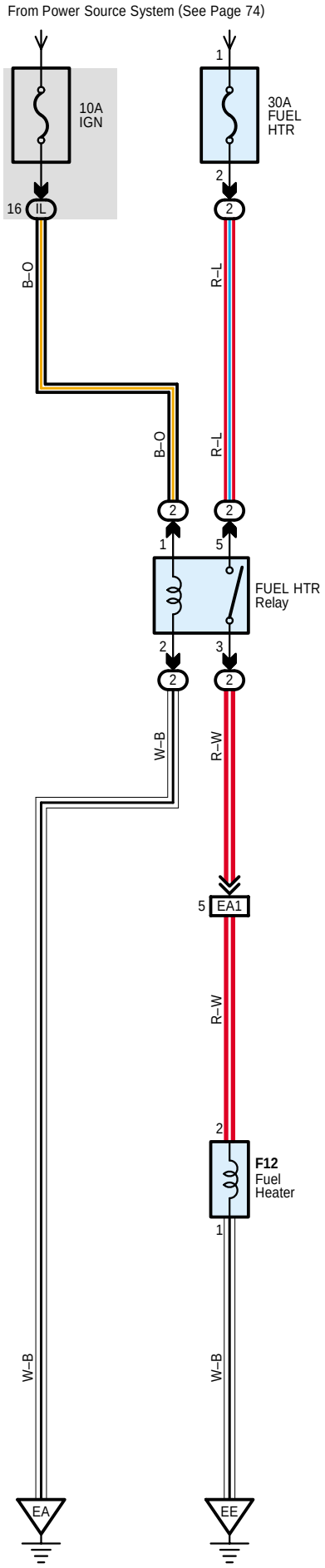
Front Fog Light (LHD)



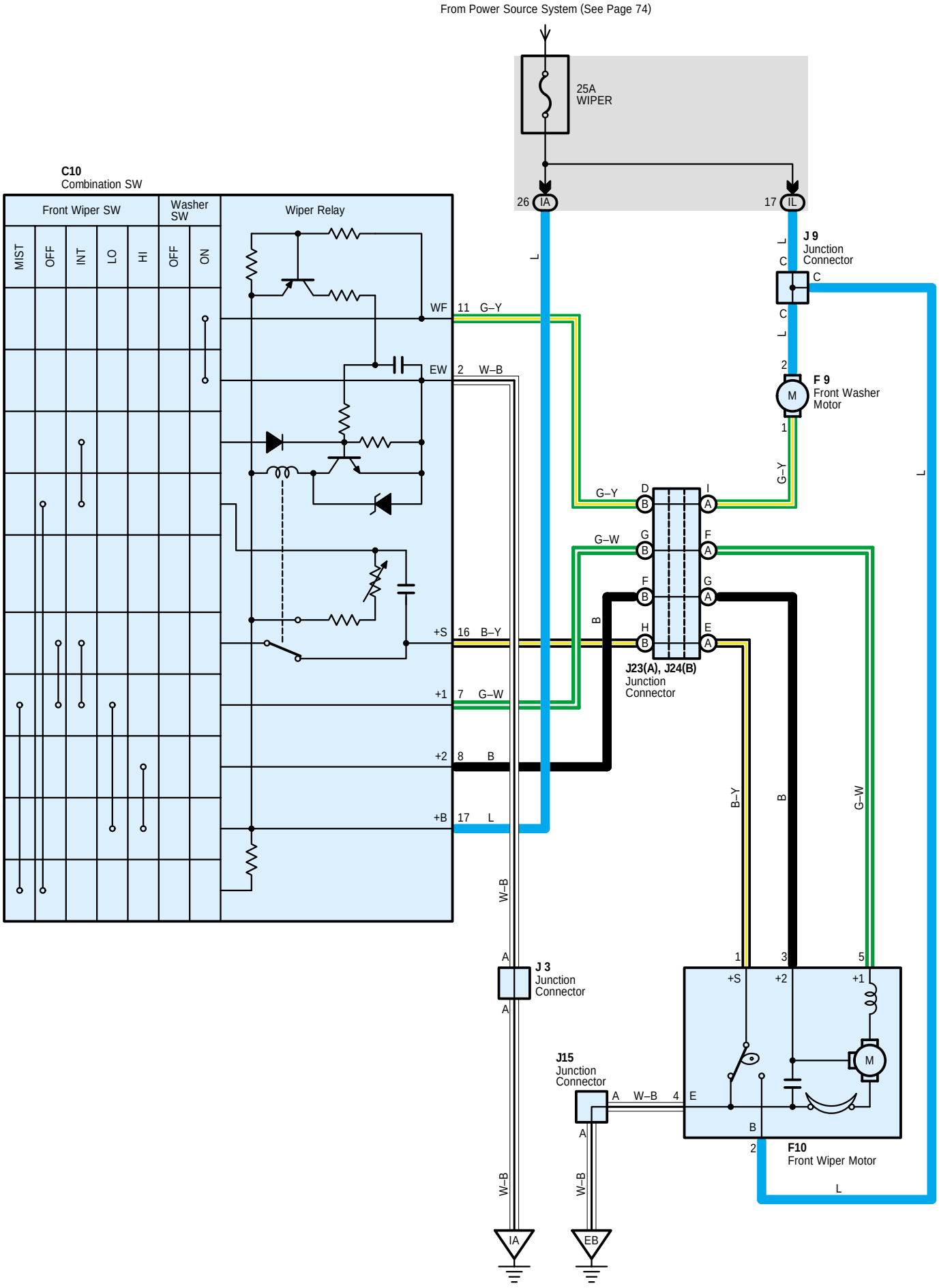
Front Fog Light (RHD)



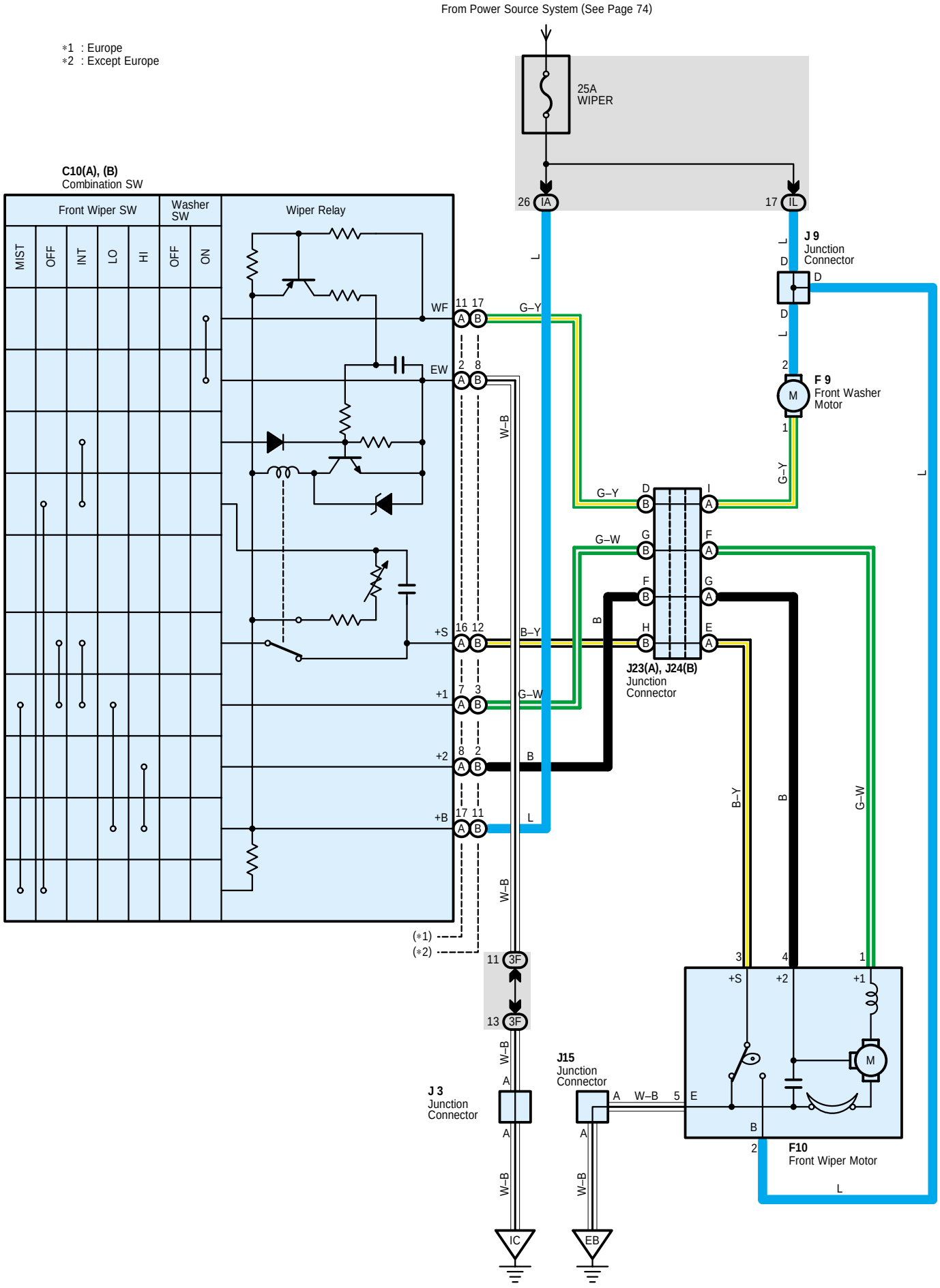
Fuel Heater (LHD)



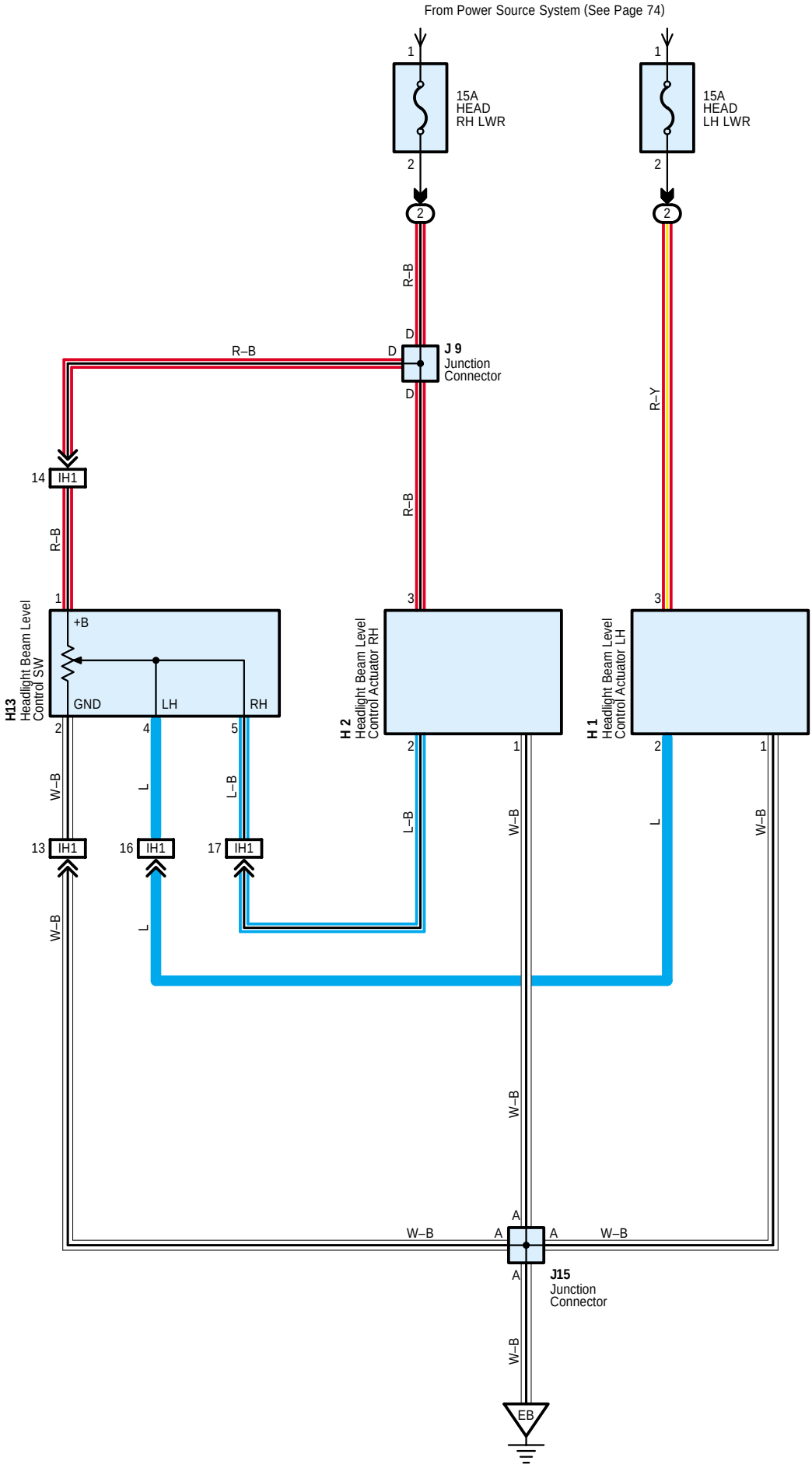
Front Wiper and Washer (LHD)



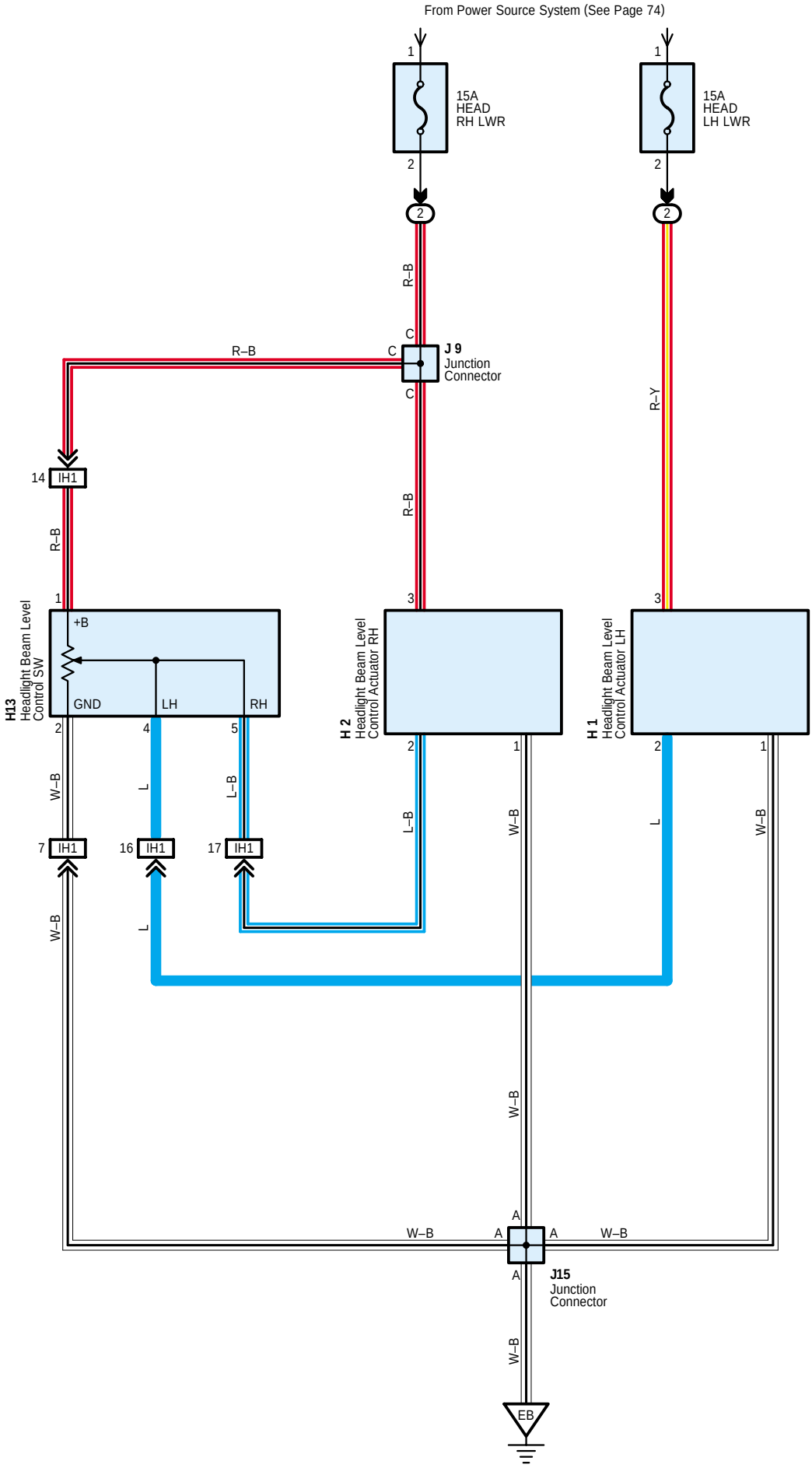
Front Wiper and Washer (RHD)



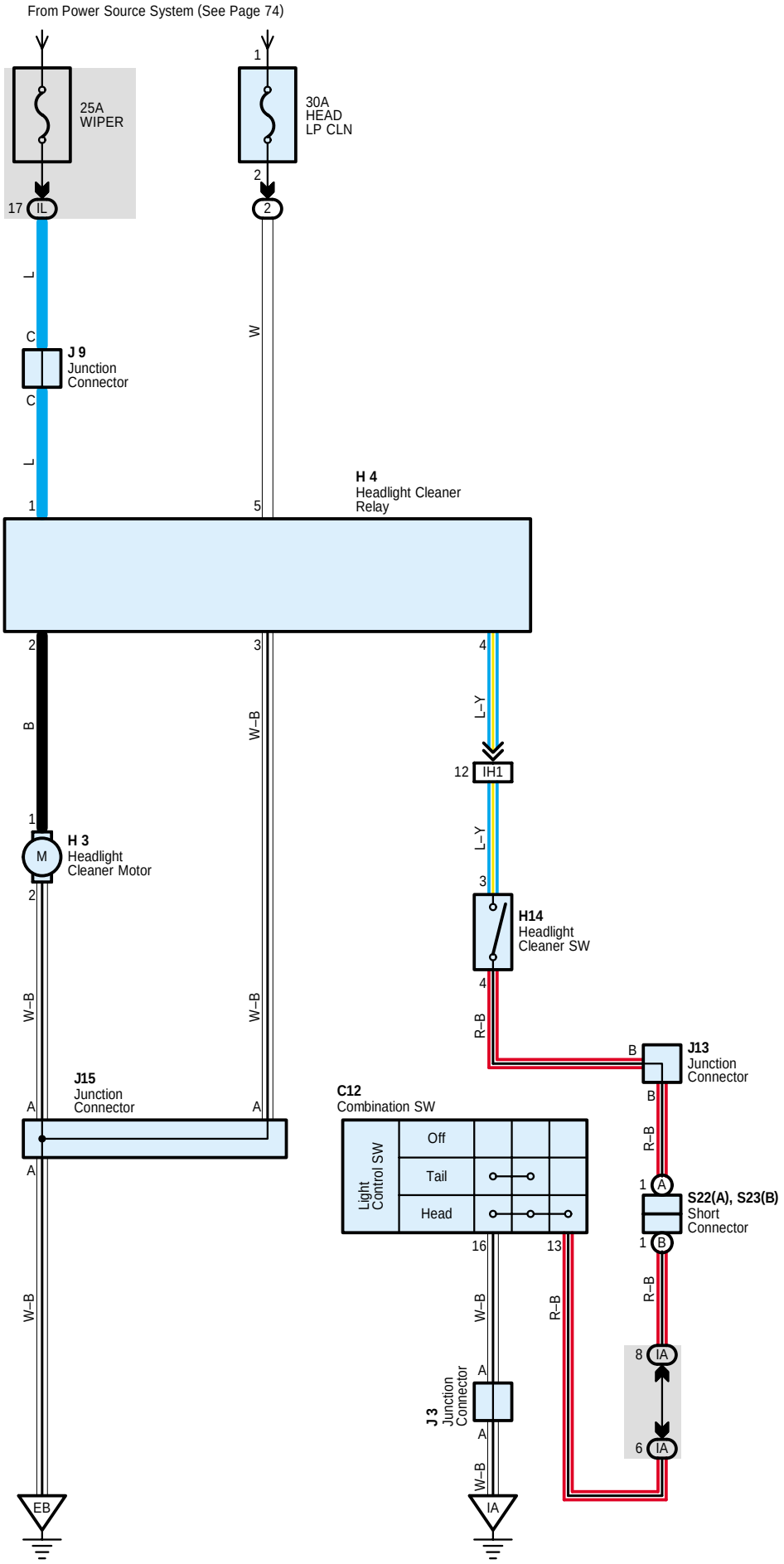
Headlight Beam Level Control (LHD)



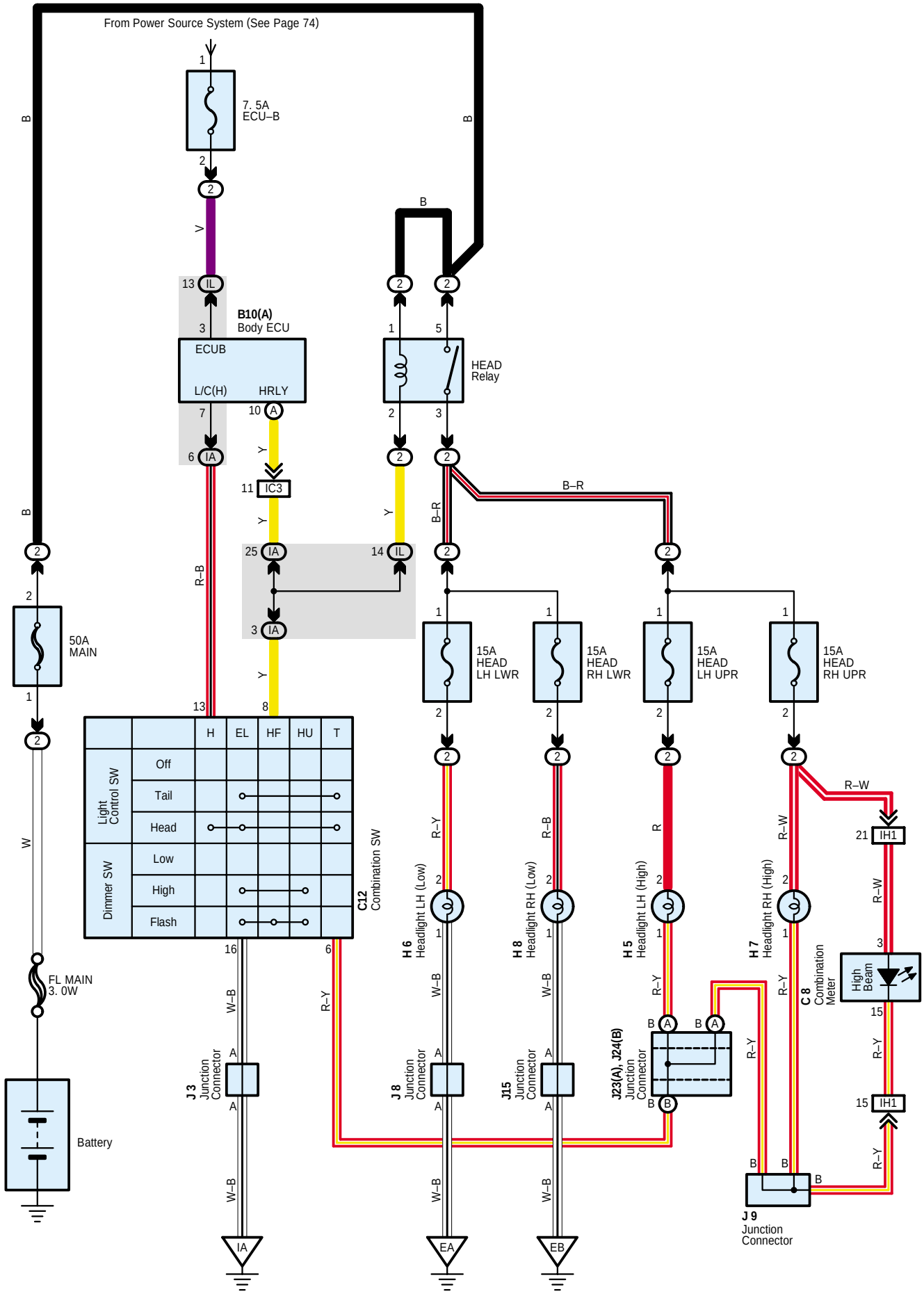
Headlight Beam Level Control (RHD)



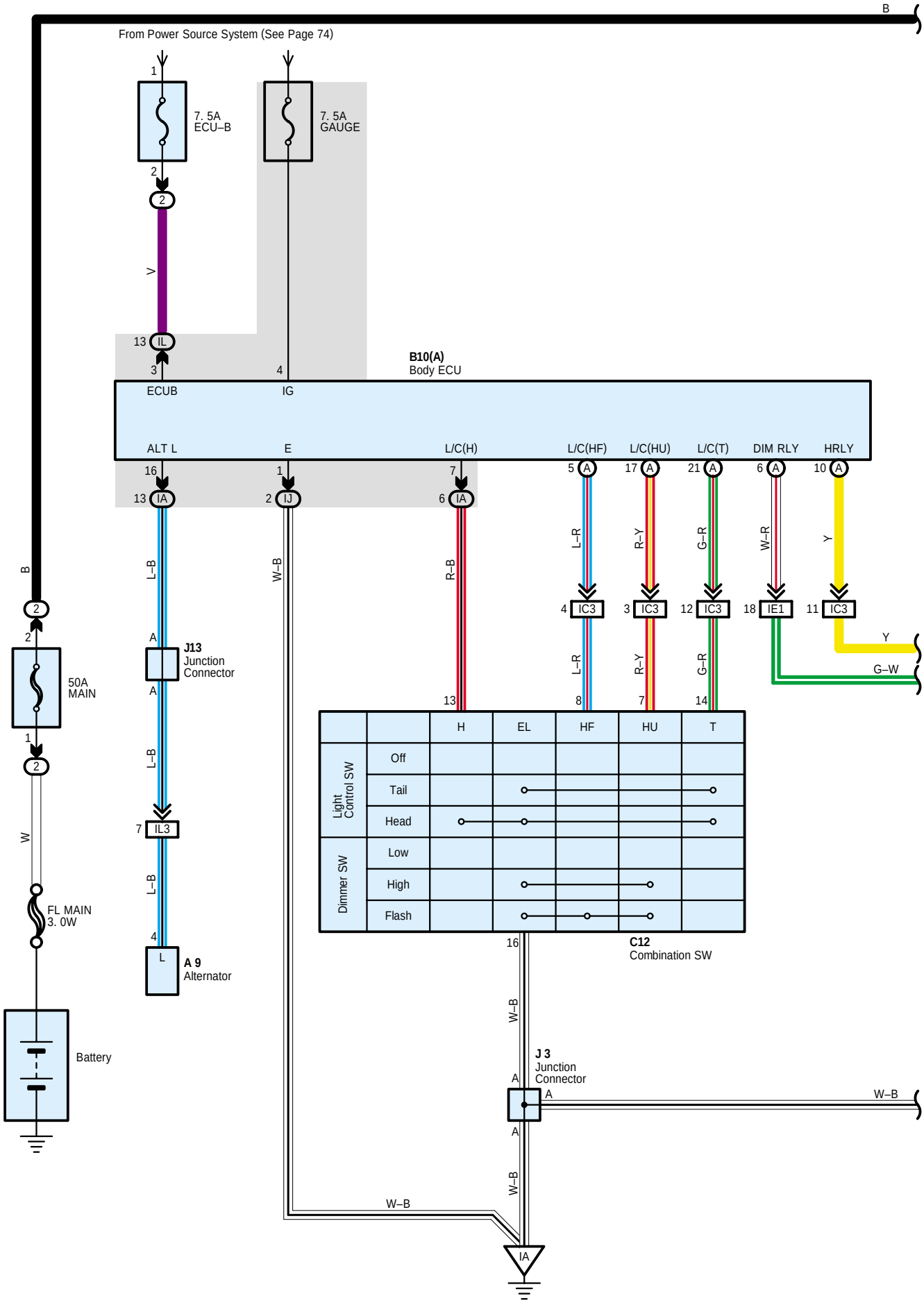
Headlight Cleaner (LHD)

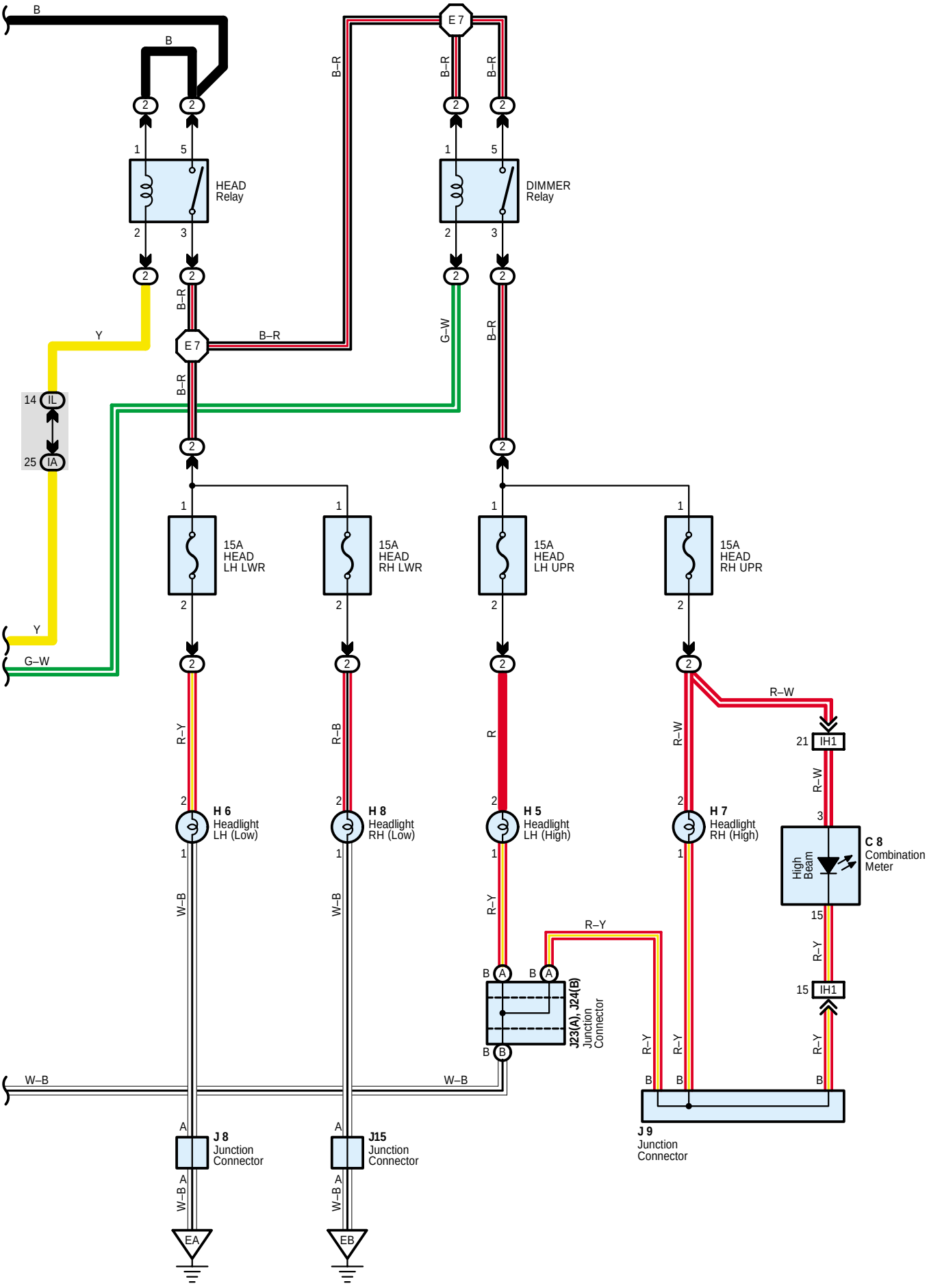


Headlight (LHD w/o Daytime Running Light)

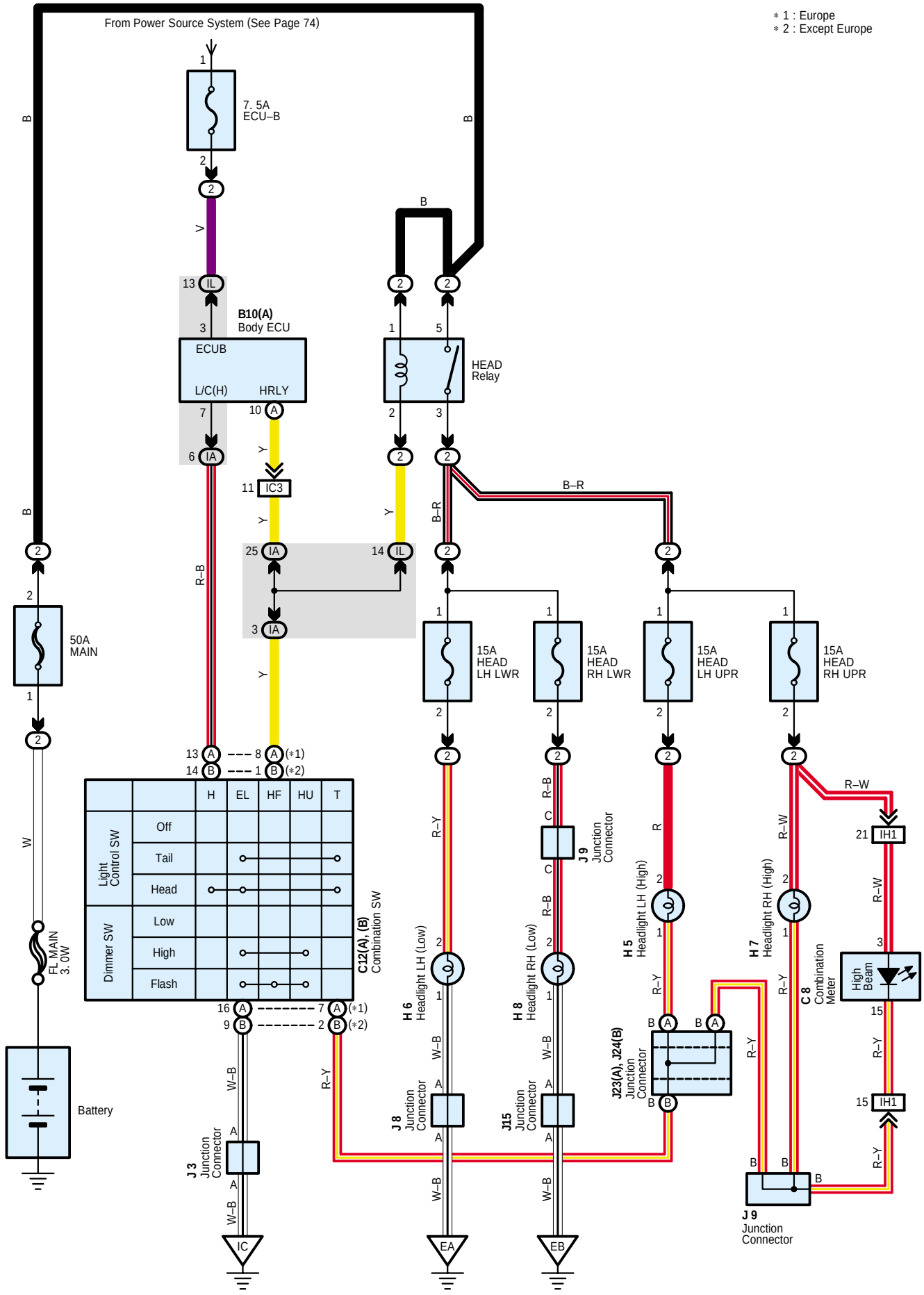


Headlight (LHD w/ Daytime Running Light)

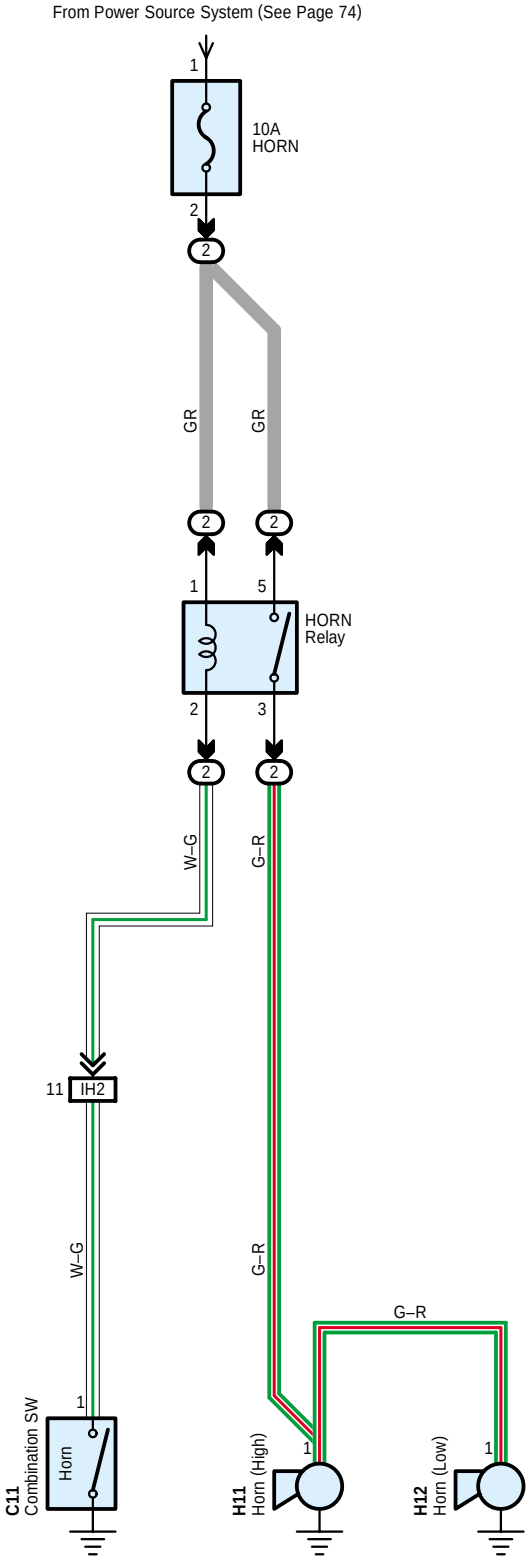



B
B
E 7
B–R
B–R
B–R
HEAD
Relay
DIMMER
Relay
Y
B–R
E 7
B–R
G–W
B–R
14 IL
25 IA
15A
HEAD
LH LWR
15A
HEAD
RH LWR
15A
HEAD
LH UPR
15A
HEAD
RH UPR
Y
G–W
R–Y
R–B
R
R–W
R–W
H 6
Headlight
LH (Low)
H 8
Headlight
RH (Low)
H 5
Headlight
LH (High)
H 7
Headlight
RH (High)
W–B
W–B
R–Y
R–Y
21 IH1
R–W
3
C 8
Combination
Meter
High
Beam
15
R–Y
15 IH1
R–Y
J23(A), J24(B)
Junction
Connector
W–B
W–B
R–Y
R–Y
R–Y
J 8
Junction
Connector
J15
Junction
Connector
J 9
Junction
Connector
W–B
W–B
EA
EB

Headlight (RHD)

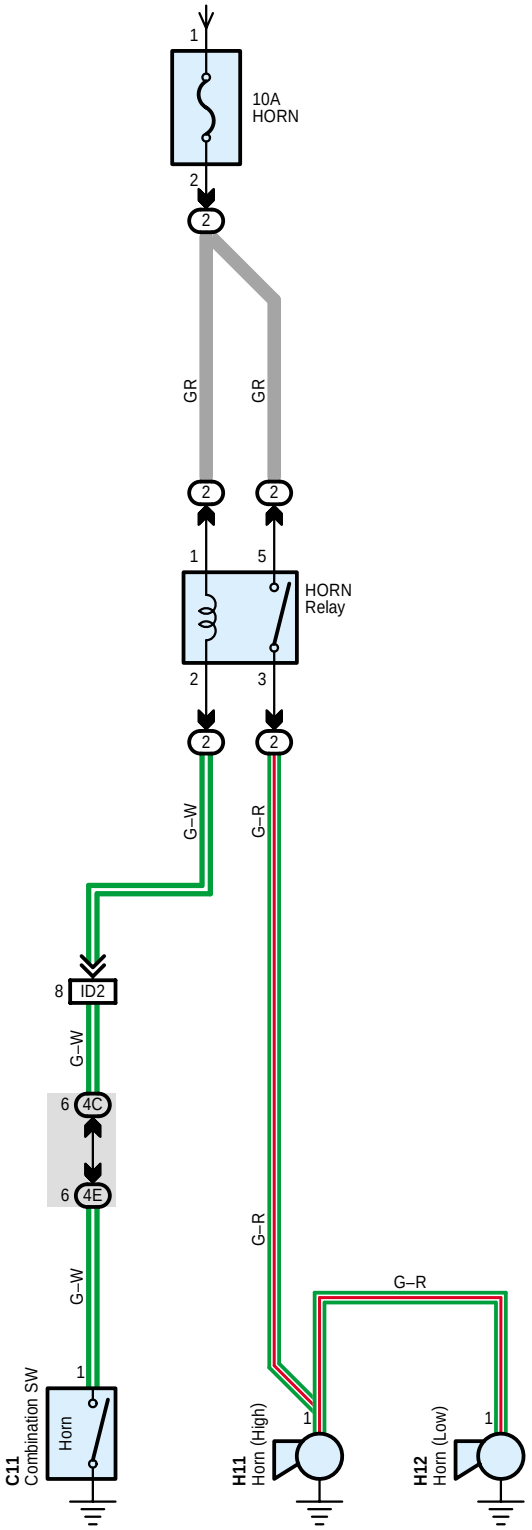


Horn (LHD)

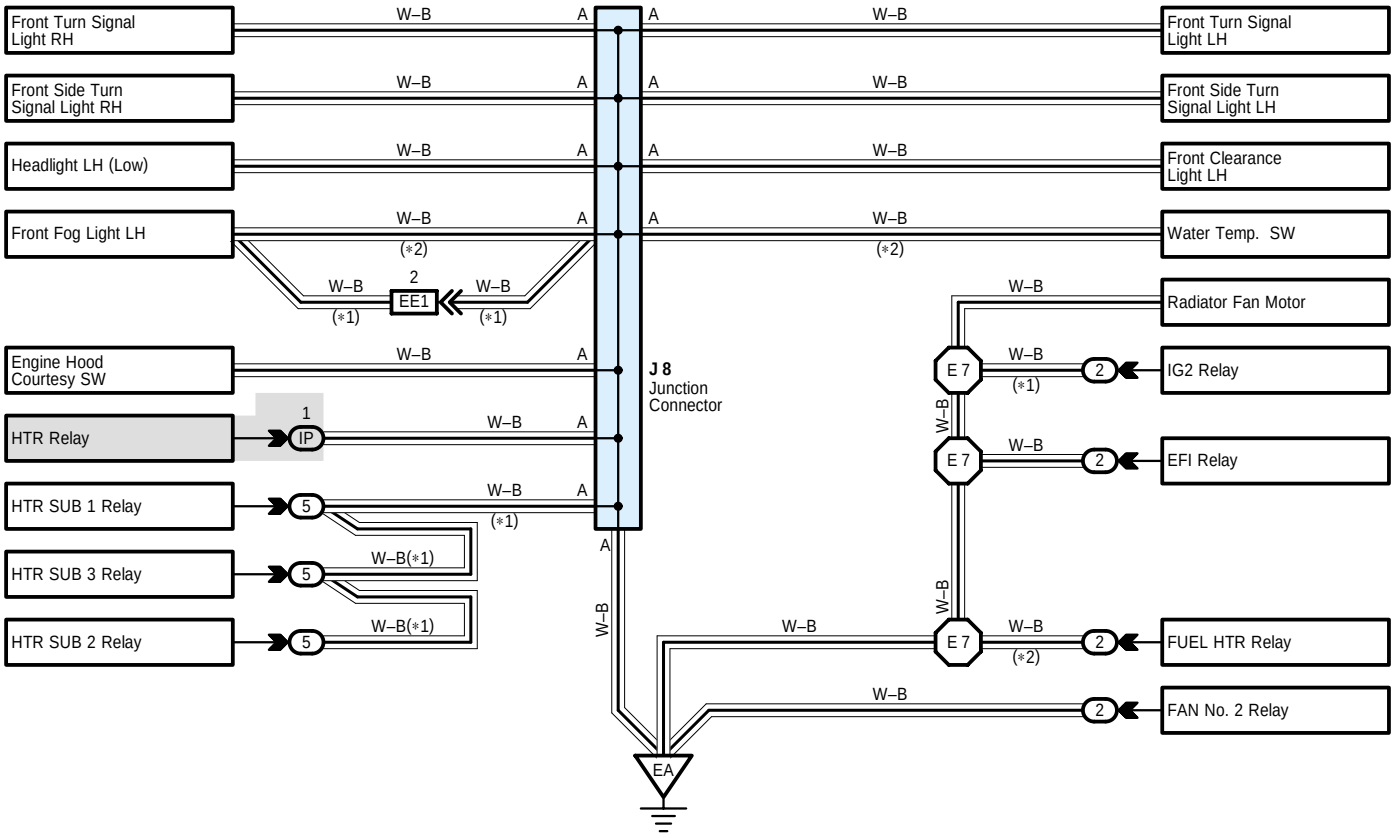

From Power Source System (See Page 74)
1
10A
HORN
2
2
GR
GR
2
2
1
5
HORN
Relay
2
3
2
2
W–G
G–R
11
IH2
W–G
G–R
G–R
1
C11
Combination SW
Horn
1
H11
Horn (High)
1
H12
Horn (Low)

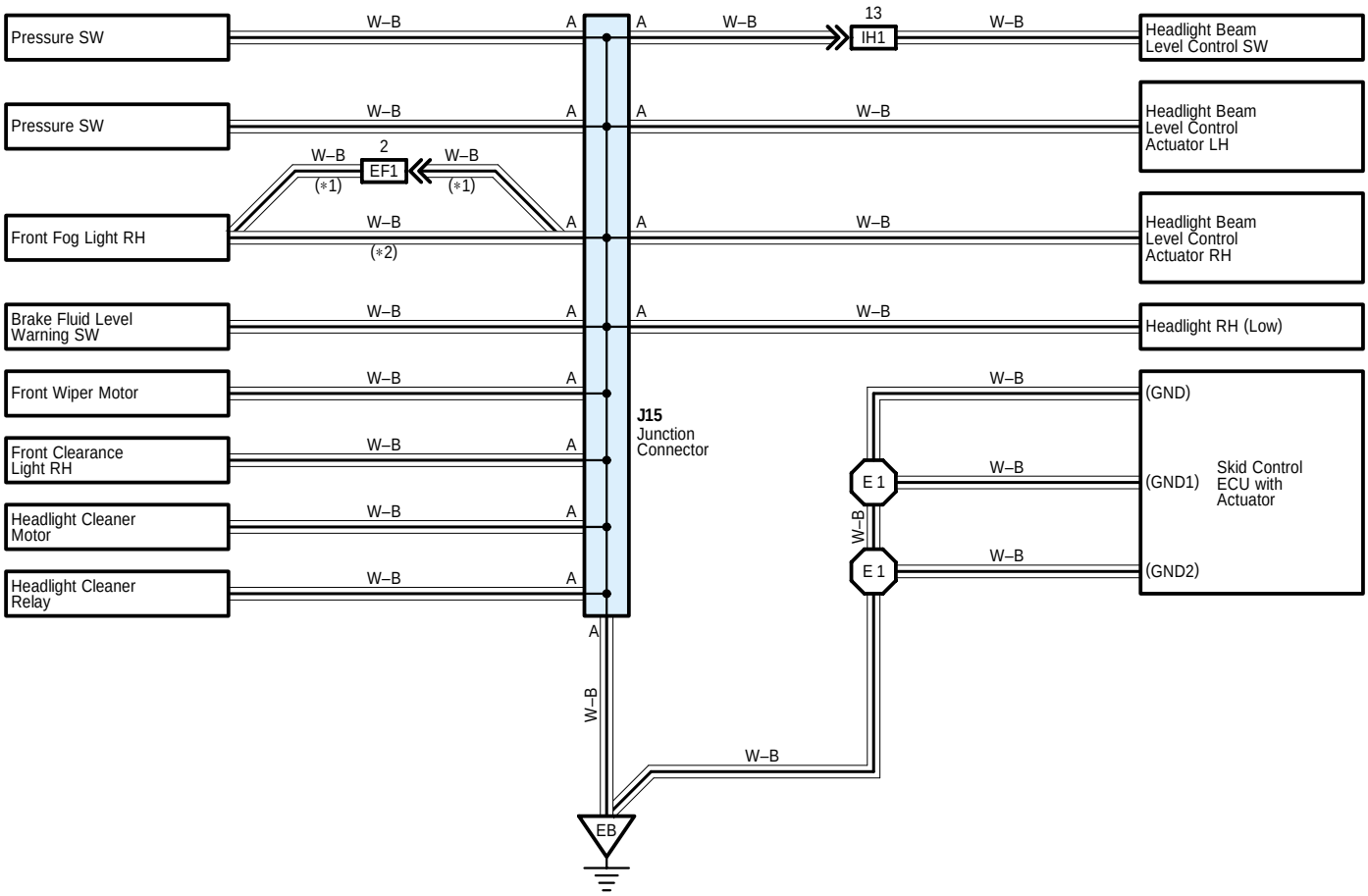
Horn (RHD)

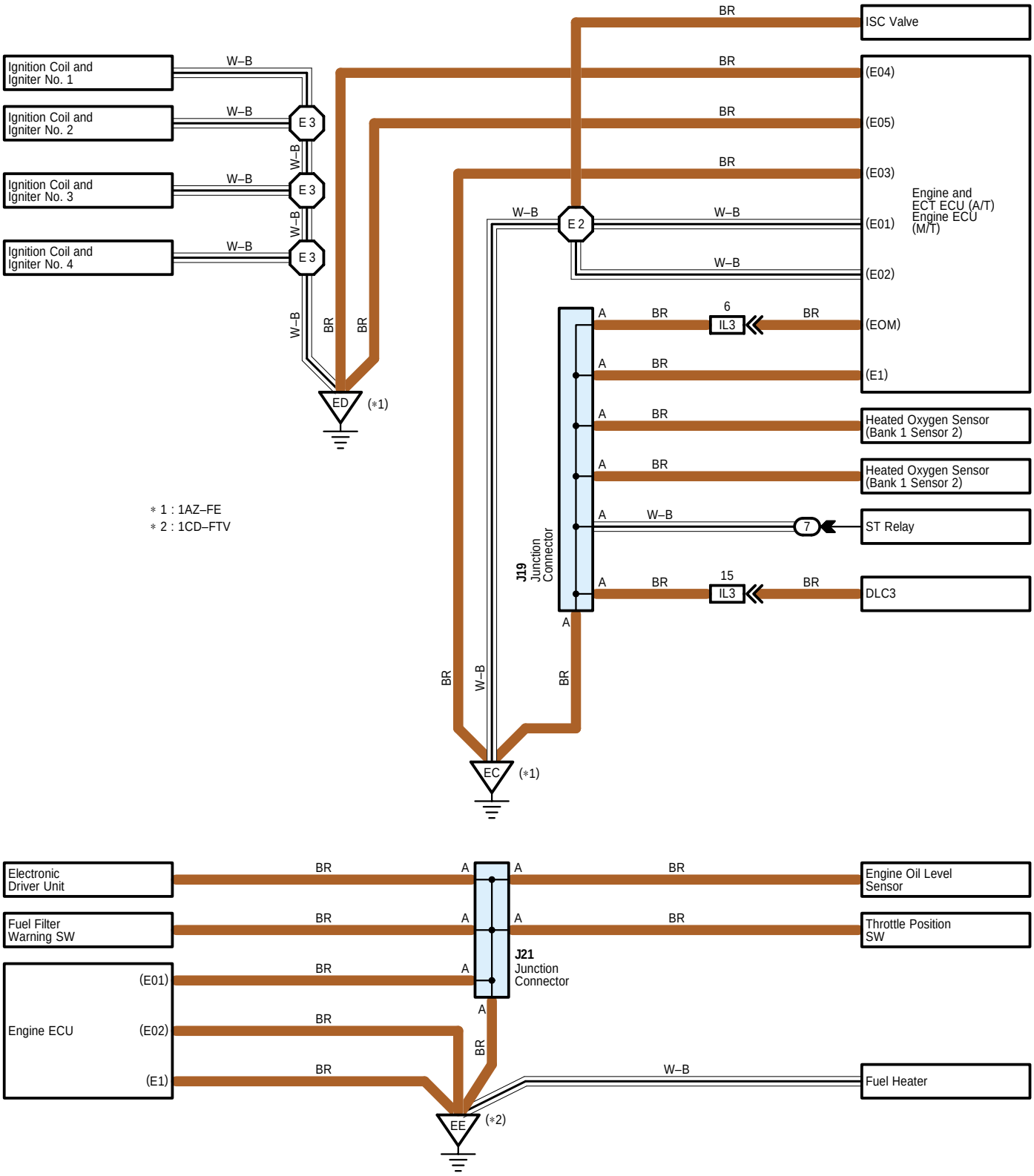
From Power Source System (See Page 74)



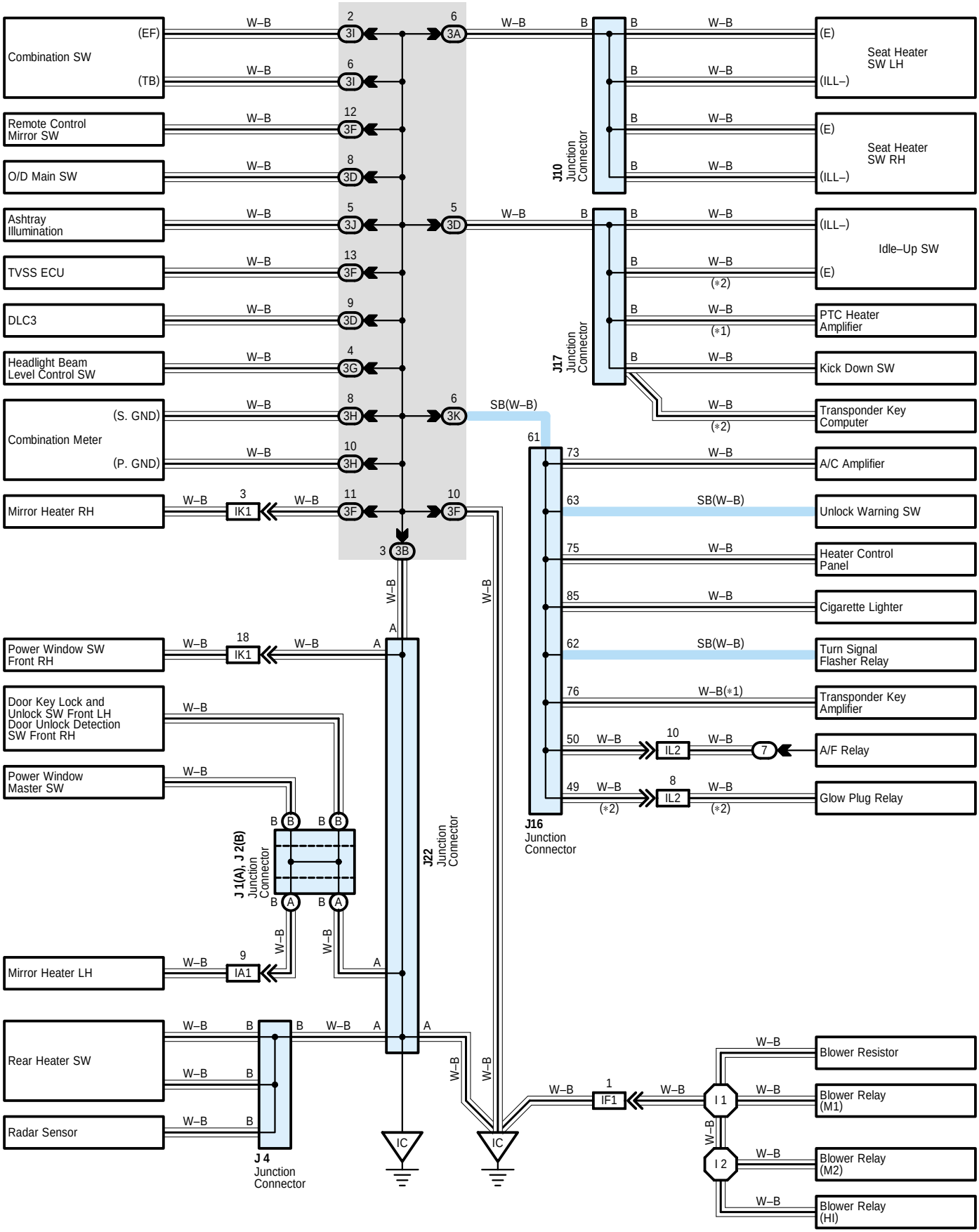
I GROUND POINT (LHD)

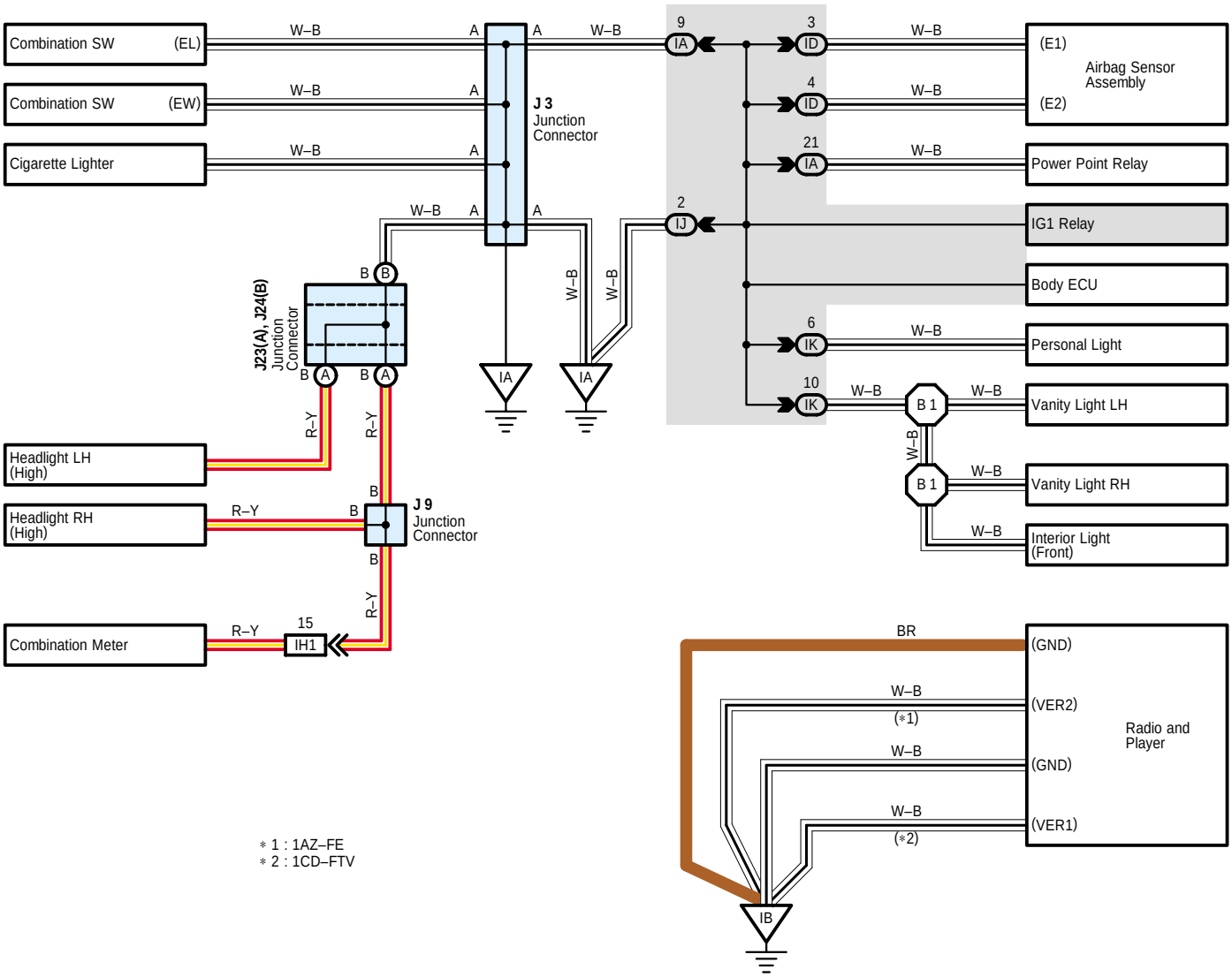




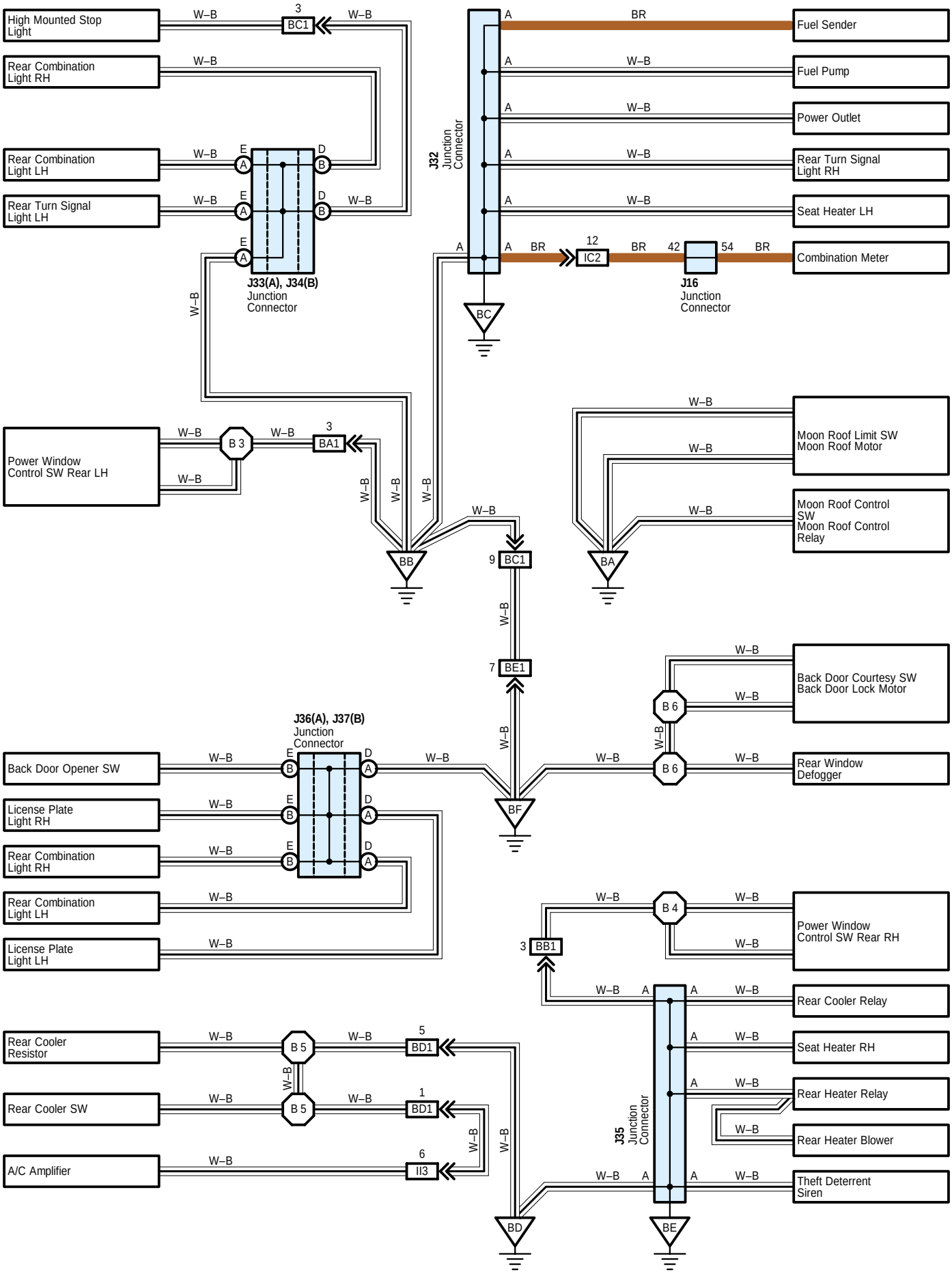

Ignition Coil and Igniter No. 1
Ignition Coil and Igniter No. 2
Ignition Coil and Igniter No. 3
Ignition Coil and Igniter No. 4
W–B
E 3
E 2
ED
EC
(*1)
BR
ISC Valve
(E04)
(E05)
(E03)
(E01)
(E02)
(EOM)
(E1)
Engine and ECT ECU (A/T) Engine ECU (M/T)
6
IL3
7
15
ST Relay
DLC3
J19 Junction Connector
A
Heated Oxygen Sensor (Bank 1 Sensor 2)
Heated Oxygen Sensor (Bank 1 Sensor 2)
* 1 : 1AZ–FE
* 2 : 1CD–FTV
Electronic Driver Unit
Fuel Filter Warning SW
Engine ECU
J21 Junction Connector
Engine Oil Level Sensor
Throttle Position SW
Fuel Heater
EE
(*2)

I GROUND POINT (LHD)

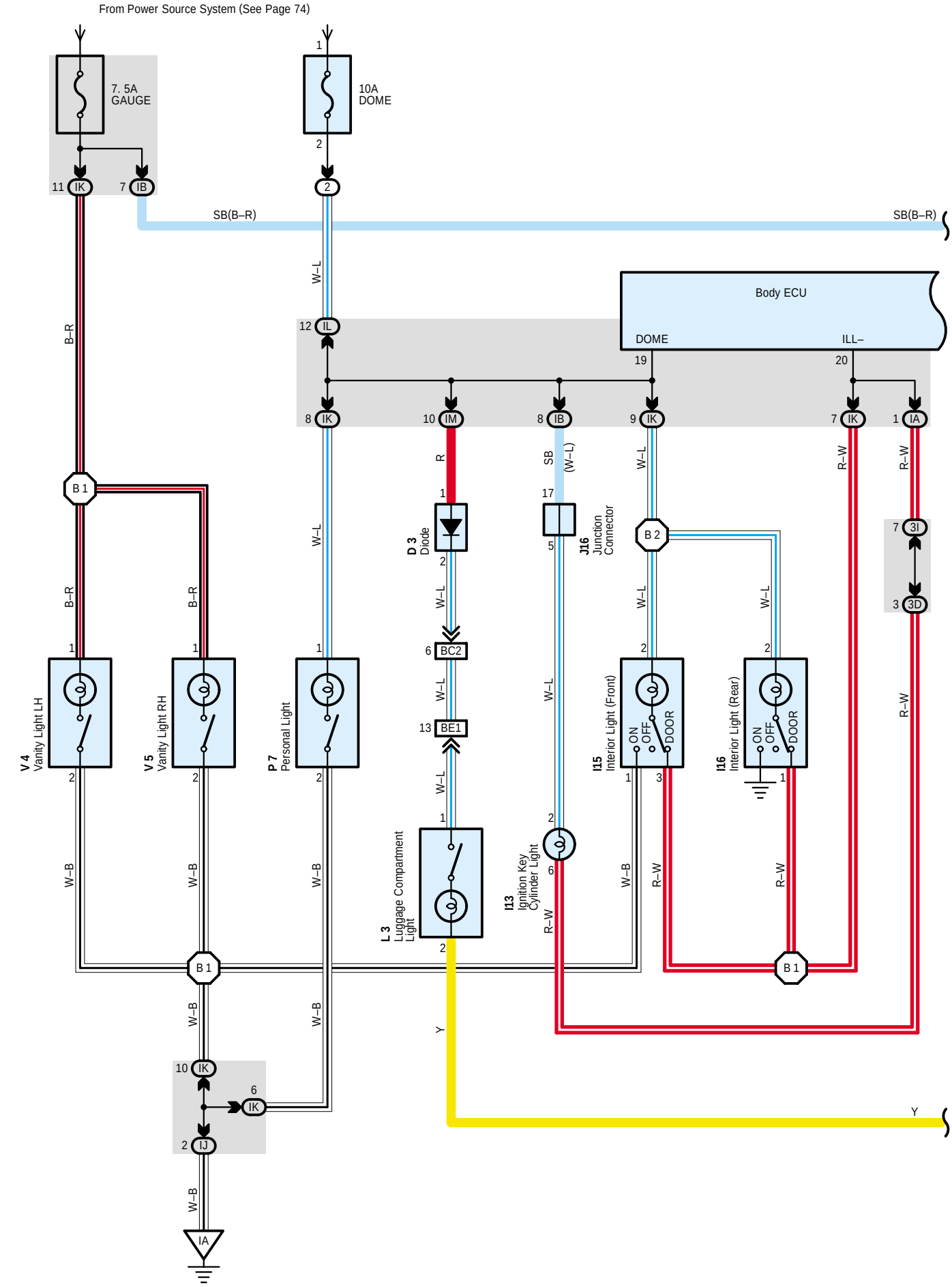



Combination SW (EL)
Combination SW (EW)
Cigarette Lighter
W–B
A
J 3
Junction
Connector
9
IA
3
ID
4
ID
21
IA
2
IJ
(E1)
Airbag Sensor
Assembly
(E2)
Power Point Relay
IG1 Relay
Body ECU
6
IK
Personal Light
10
IK
B 1
Vanity Light LH
Vanity Light RH
Interior Light
(Front)
J23(A), J24(B)
Junction
Connector
B
A
IA
R–Y
Headlight LH
(High)
Headlight RH
(High)
J 9
Junction
Connector
Combination Meter
15
IH1
BR
(GND)
(VER2)
(∗1)
(GND)
(VER1)
(∗2)
Radio and
Player
IB
∗ 1 : 1AZ–FE
∗ 2 : 1CD–FTV

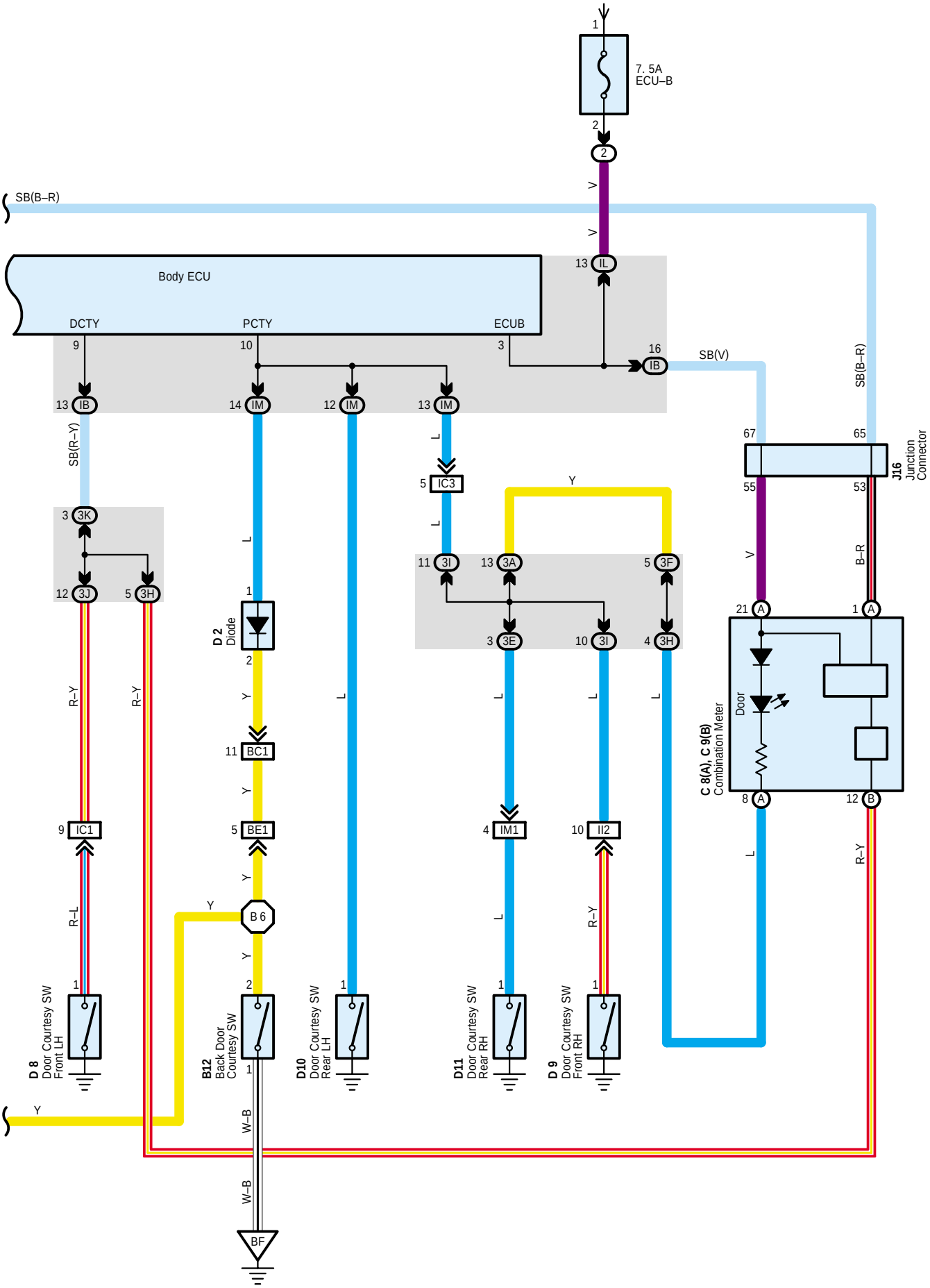
I GROUND POINT (LHD)



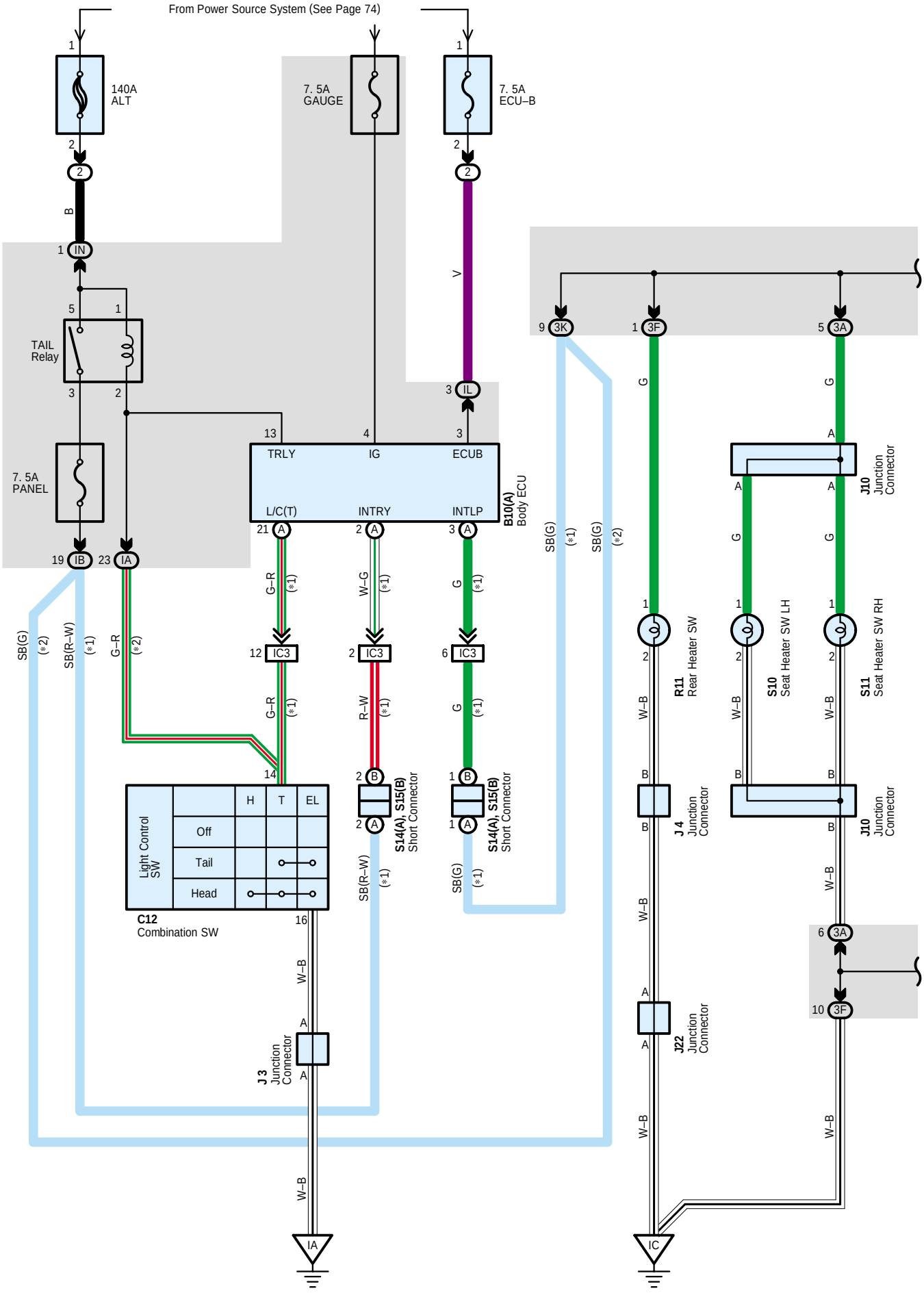
Interior Light (LHD)



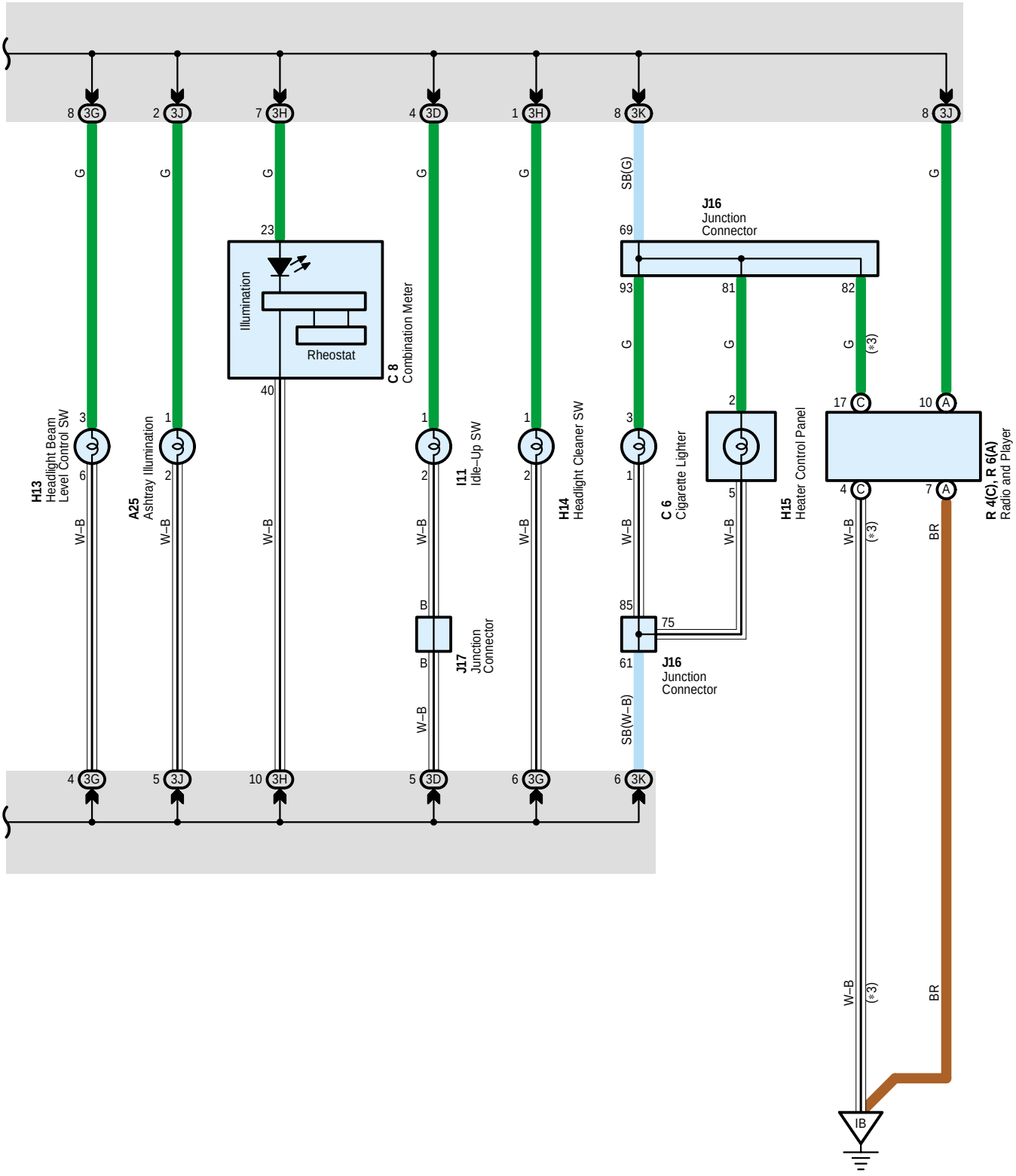
From Power Source System (See Page 74)

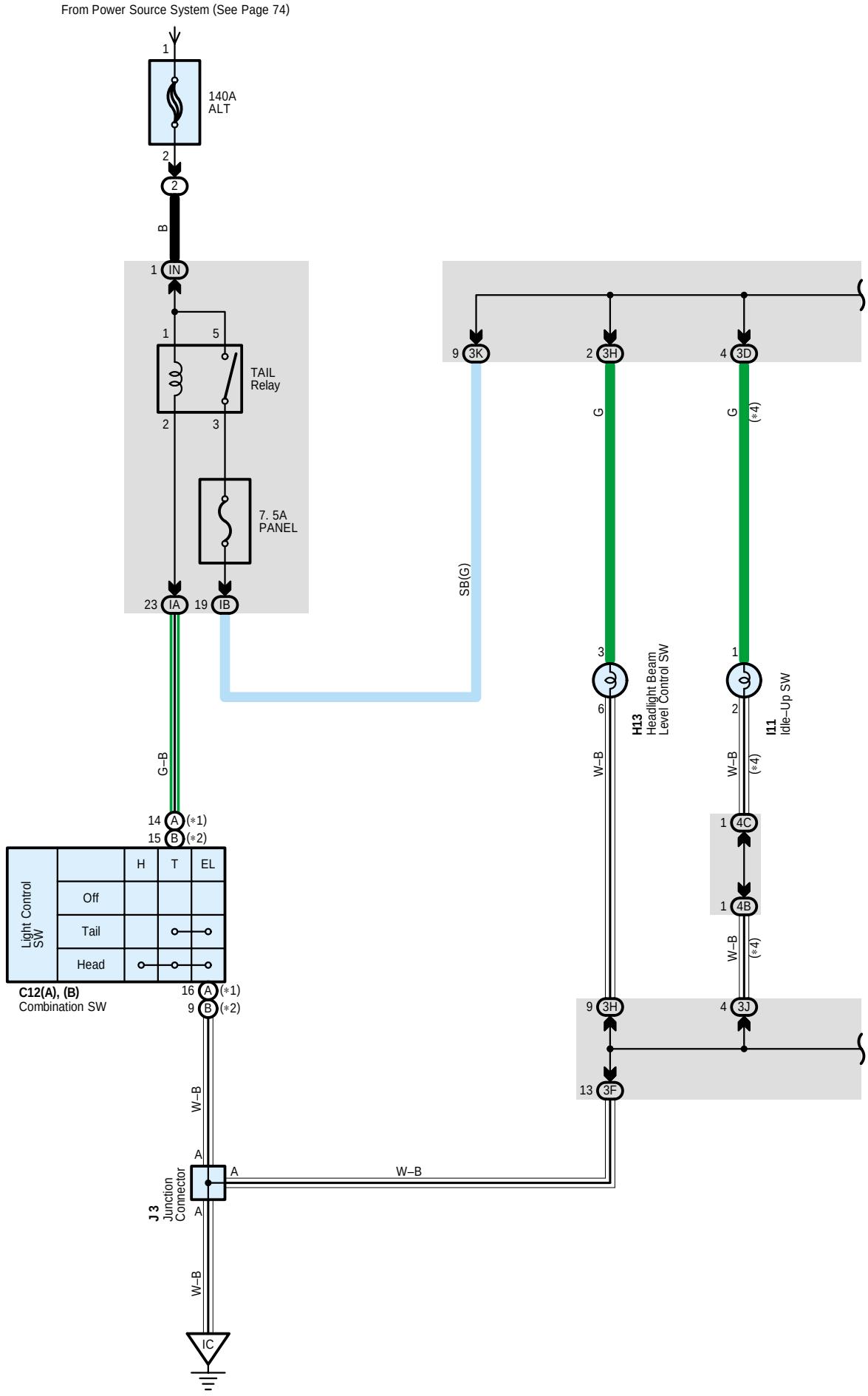


Illumination (LHD)

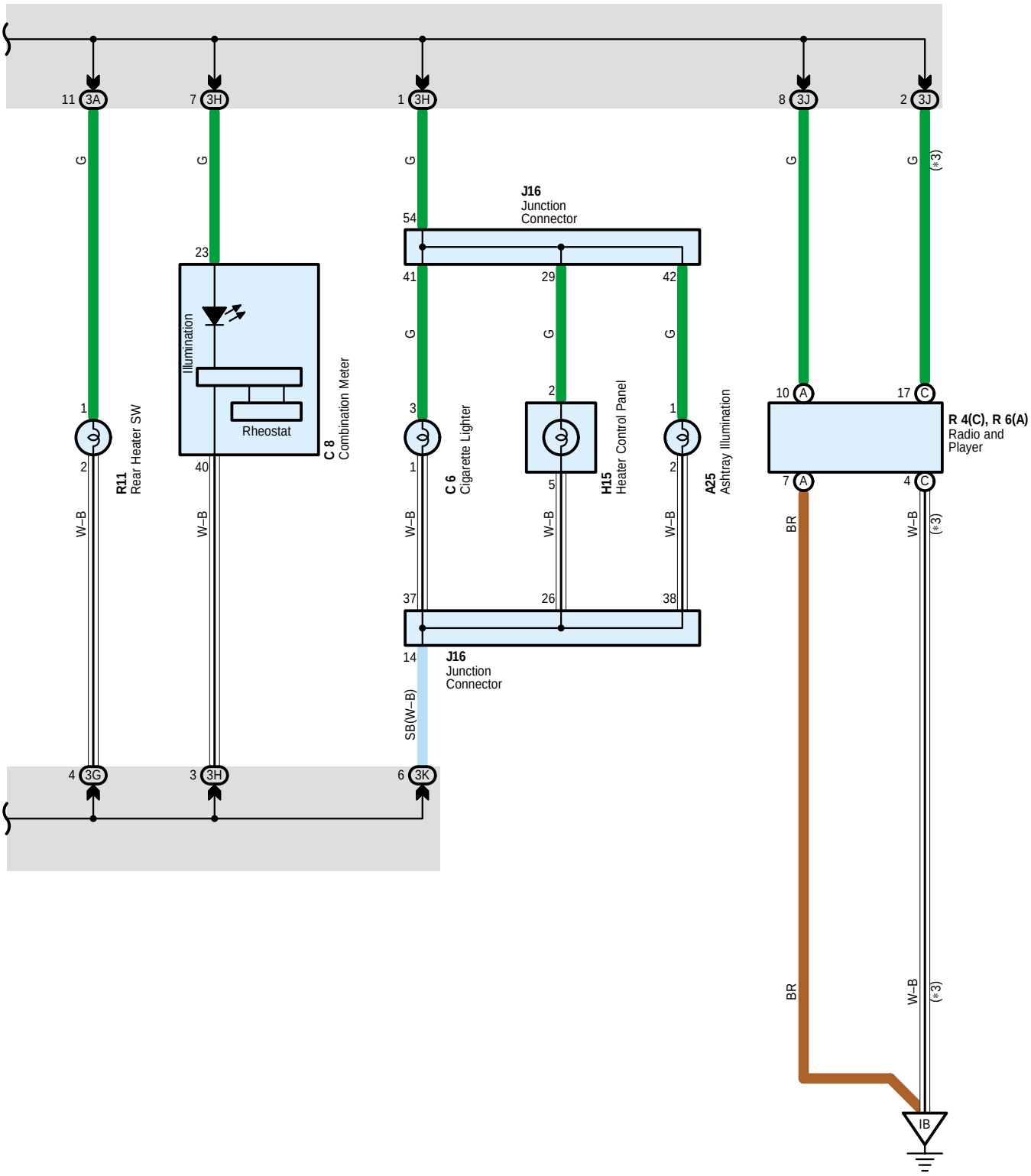


* 1 : w/ Daytime Running Light
* 2 : w/o Daytime Running Light
* 3 : w/ Display

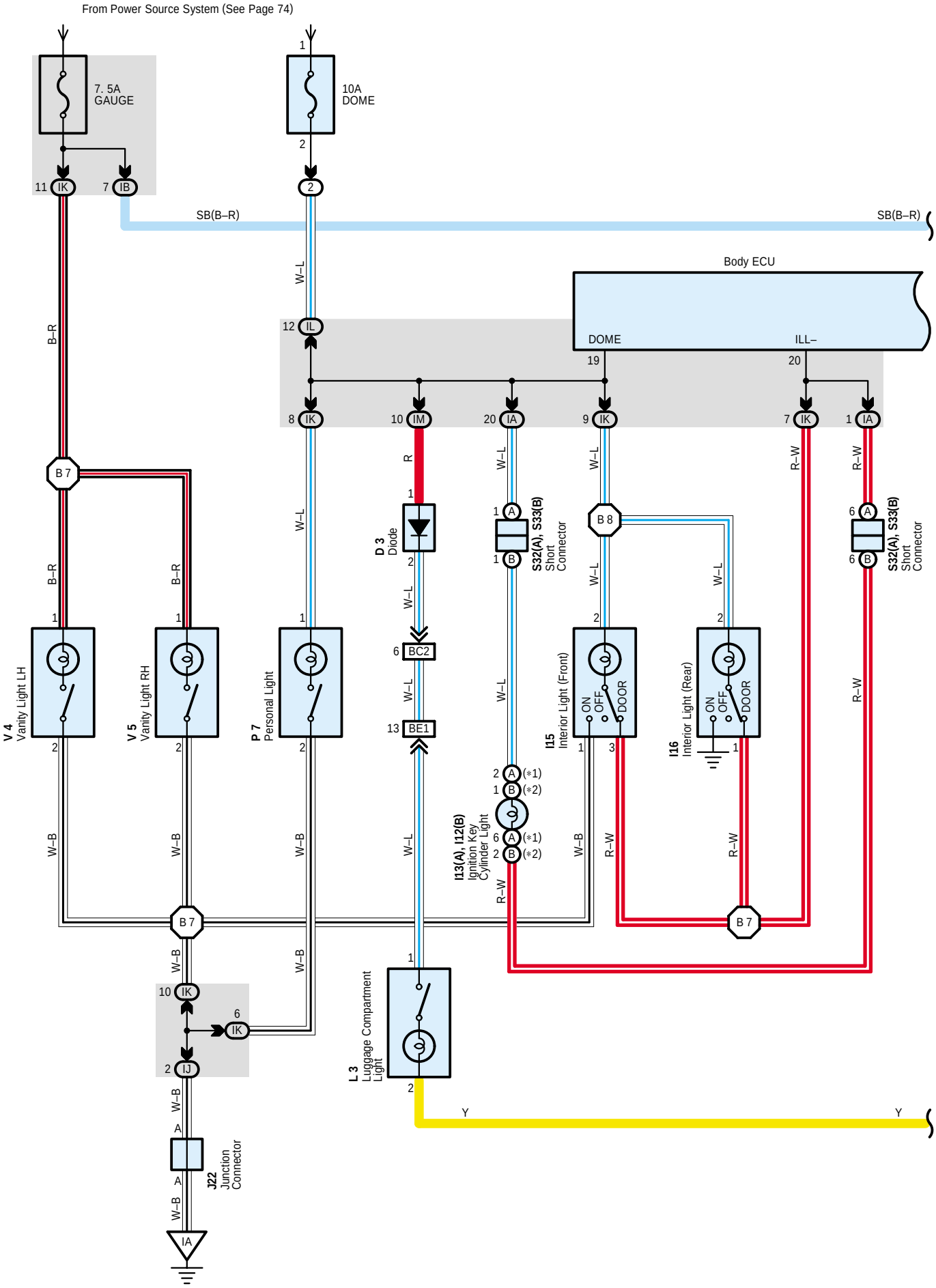



From Power Source System (See Page 74)
1
140A
ALT
2
2
B
1 IN
1
5
TAIL
Relay
2
3
7. 5A
PANEL
23 IA
19 IB
SB(G)
9 3K
2 3H
4 3D
G
G
(*4)
3
6
H13
Headlight Beam
Level Control SW
1
2
I11
Idle–Up SW
W–B
W–B
(*4)
G–B
14 A (*1)
15 B (*2)
Light Control SW
H
T
EL
Off
Tail
Head
C12(A), (B)
Combination SW
16 A (*1)
9 B (*2)
1 4C
1 4B
W–B
(*4)
9 3H
4 3J
13 3F
W–B
A
A
W–B
J3
Junction
Connector
A
W–B
IC

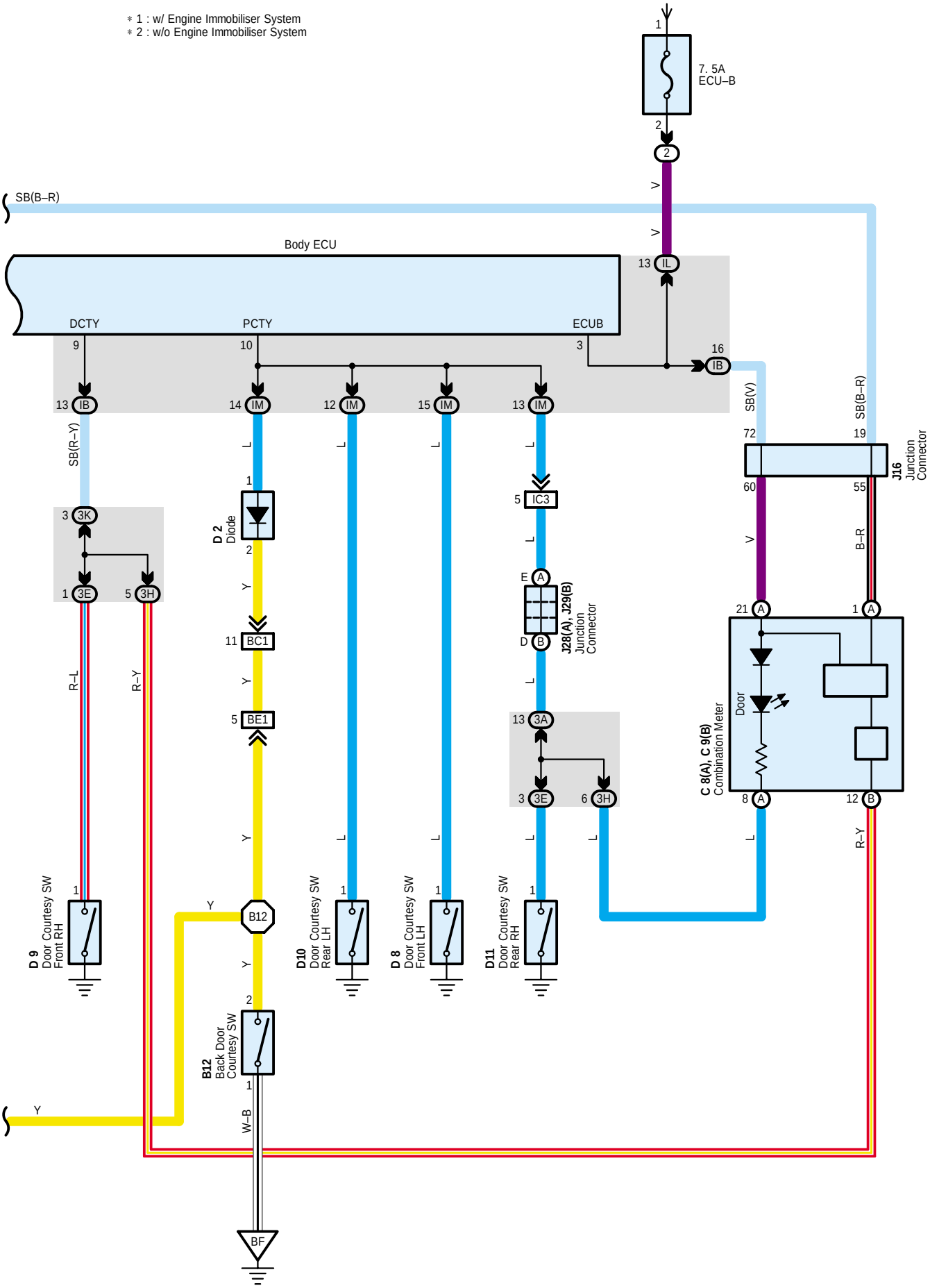
∗ 1 : Europe
∗ 2 : Except Europe
∗ 3 : w/ Display
∗ 4 : 1CD–FTV



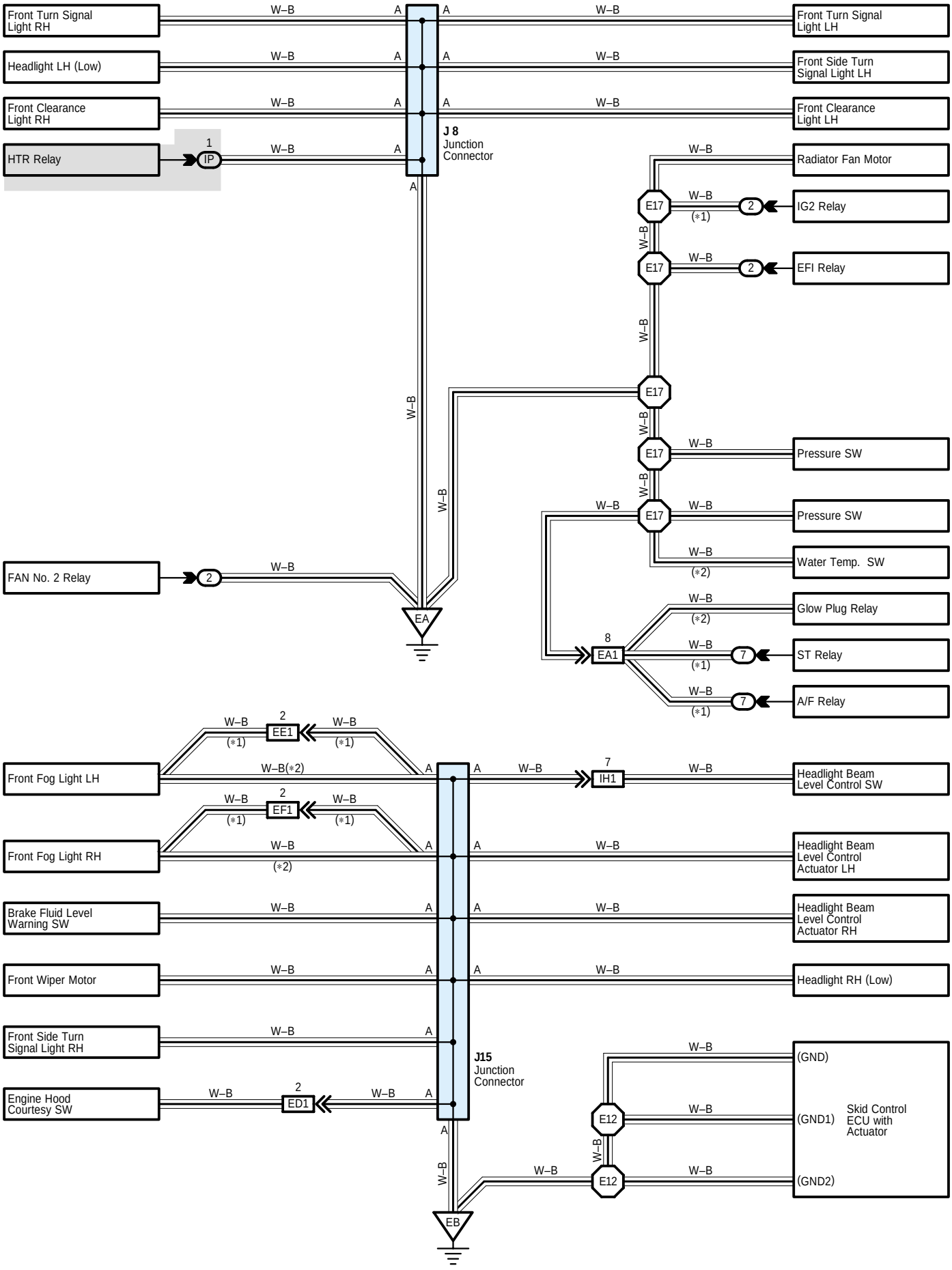
Interior Light (RHD)

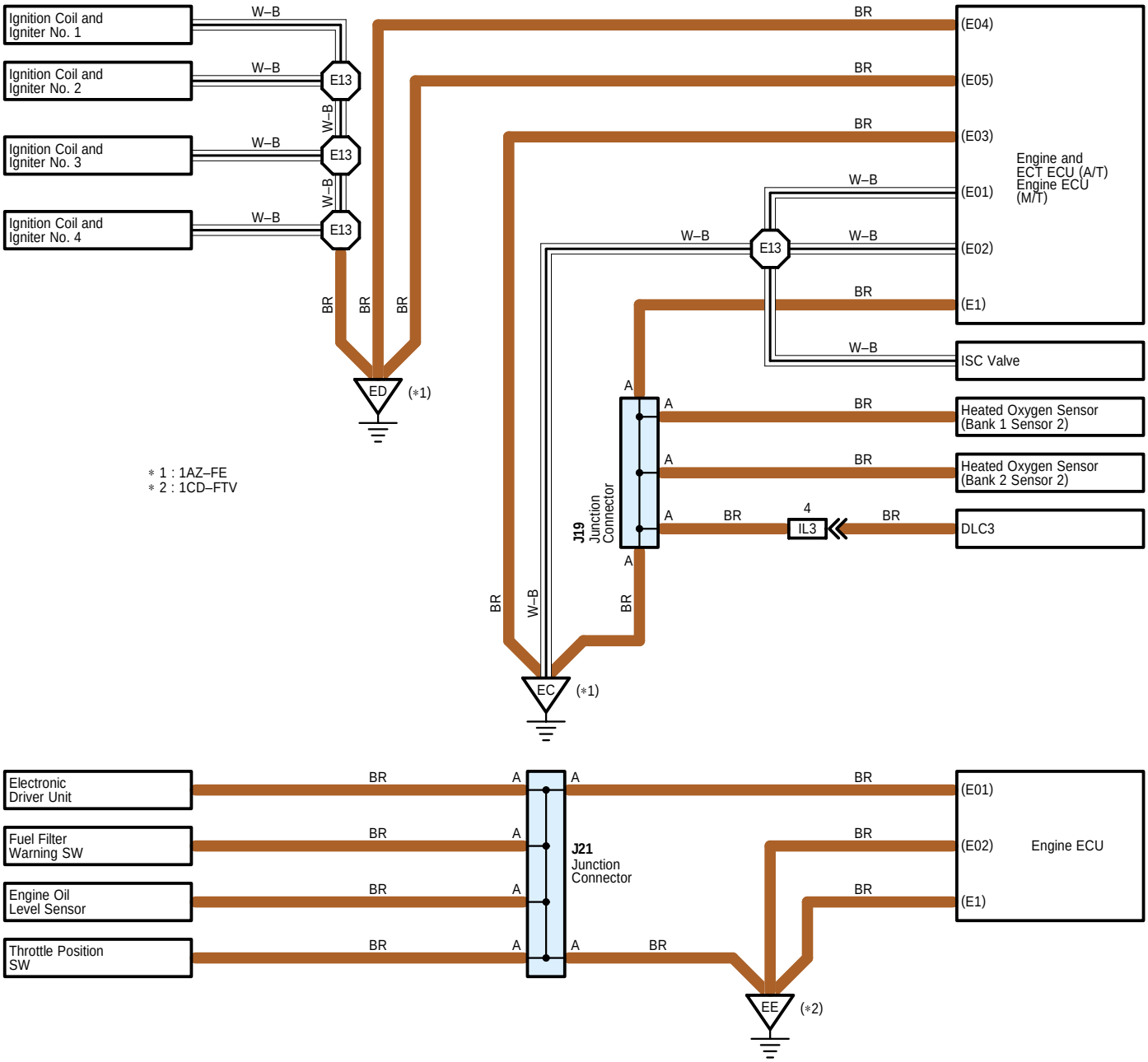


From Power Source System (See Page 74)

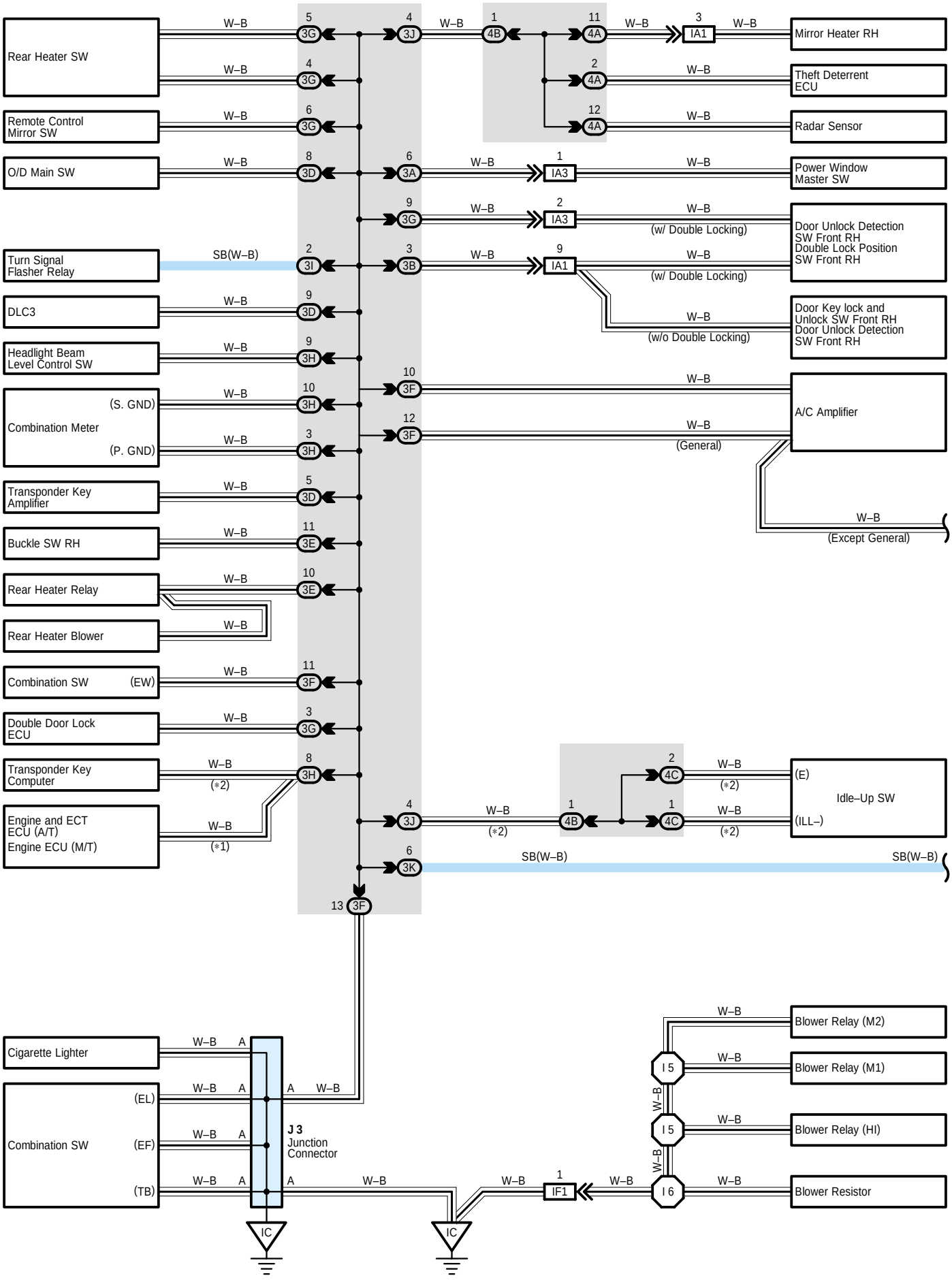


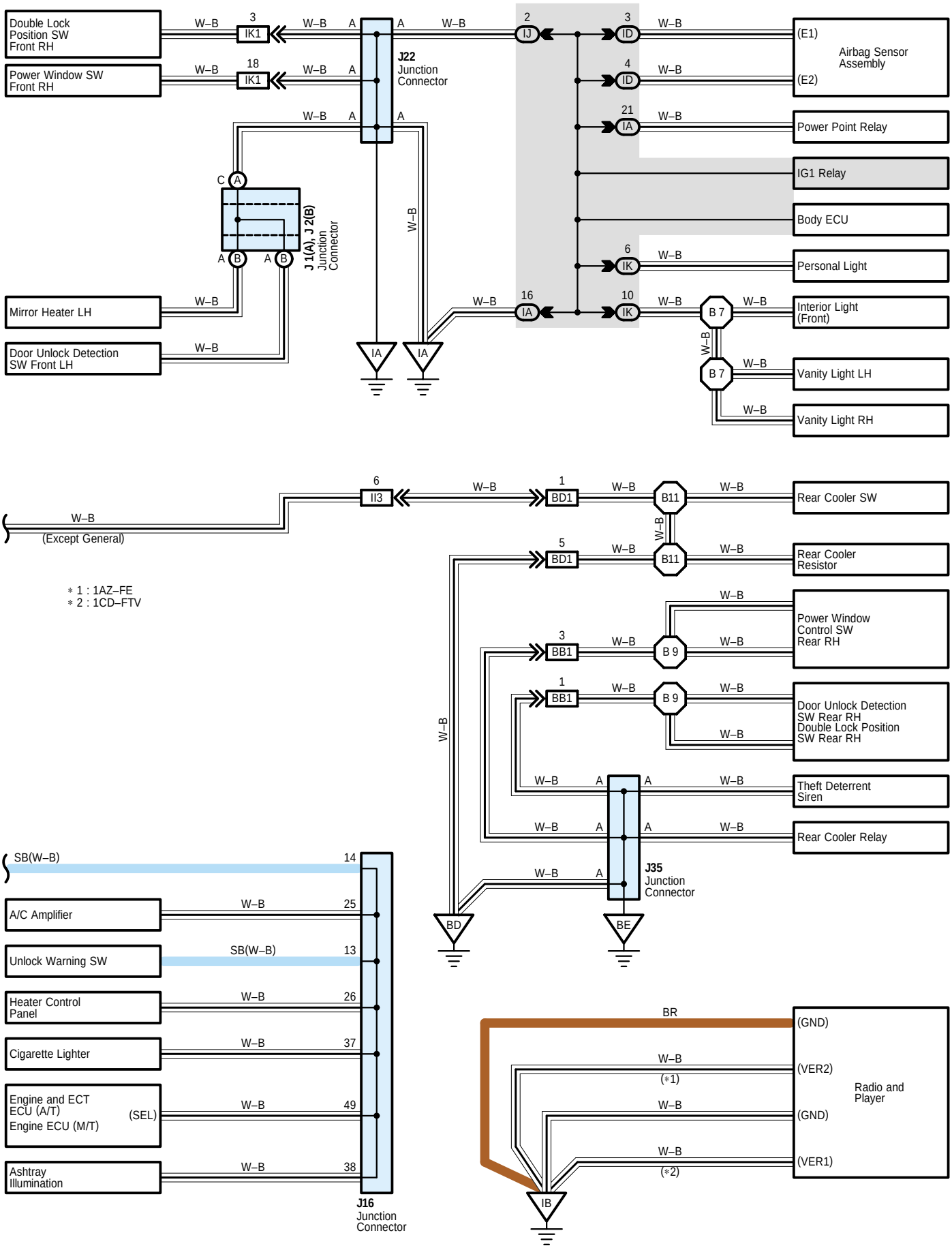
I GROUND POINT (RHD)



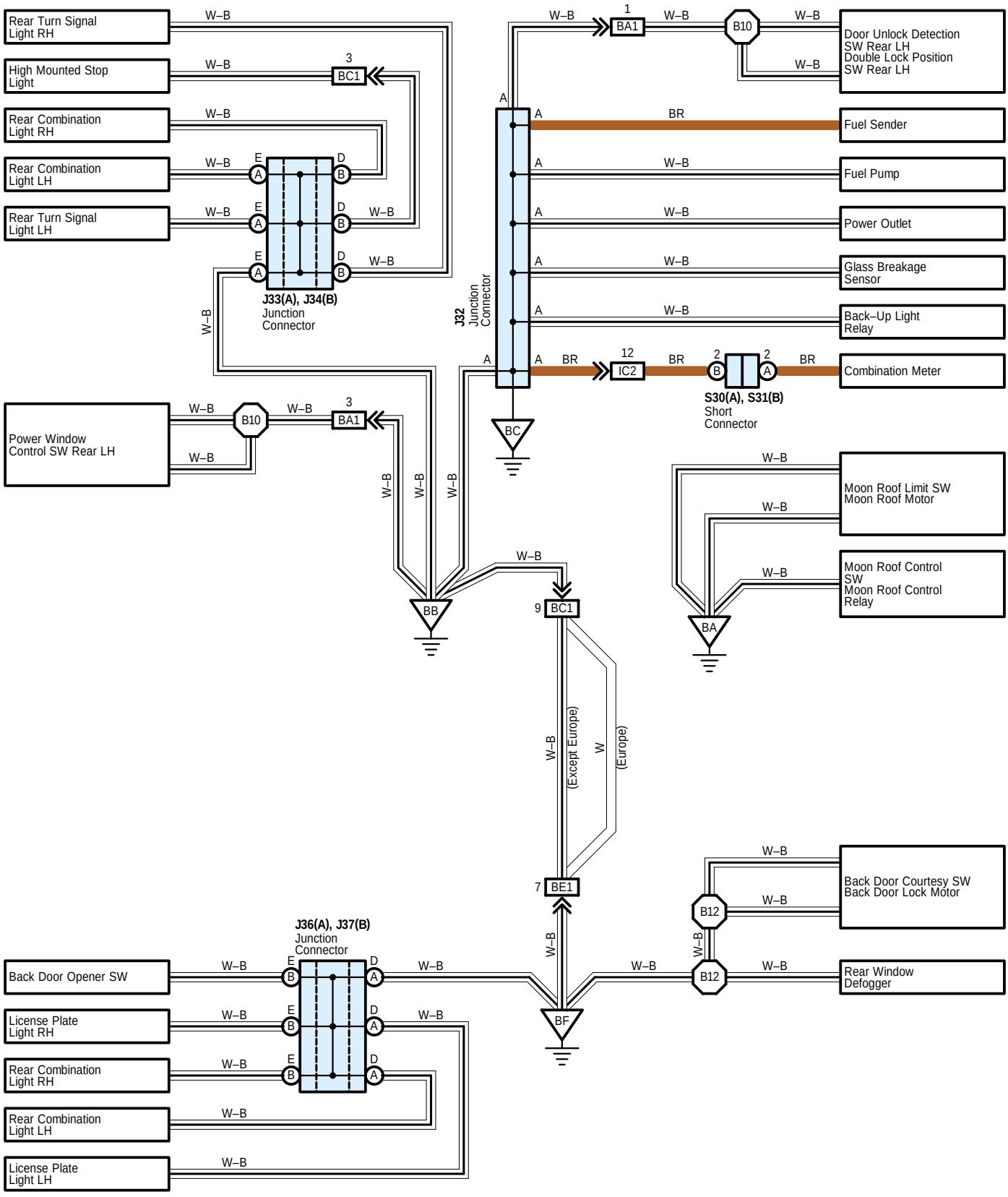

Ignition Coil and Igniter No. 1
Ignition Coil and Igniter No. 2
Ignition Coil and Igniter No. 3
Ignition Coil and Igniter No. 4
W–B
E13
BR
ED
(*1)
(E04)
(E05)
(E03)
(E01)
(E02)
(E1)
Engine and ECT ECU (A/T) Engine ECU (M/T)
ISC Valve
Heated Oxygen Sensor (Bank 1 Sensor 2)
Heated Oxygen Sensor (Bank 2 Sensor 2)
DLC3
J19 Junction Connector
IL3
4
EC
* 1 : 1AZ–FE
* 2 : 1CD–FTV
Electronic Driver Unit
Fuel Filter Warning SW
Engine Oil Level Sensor
Throttle Position SW
J21 Junction Connector
EE
(*2)
Engine ECU

I GROUND POINT (RHD)

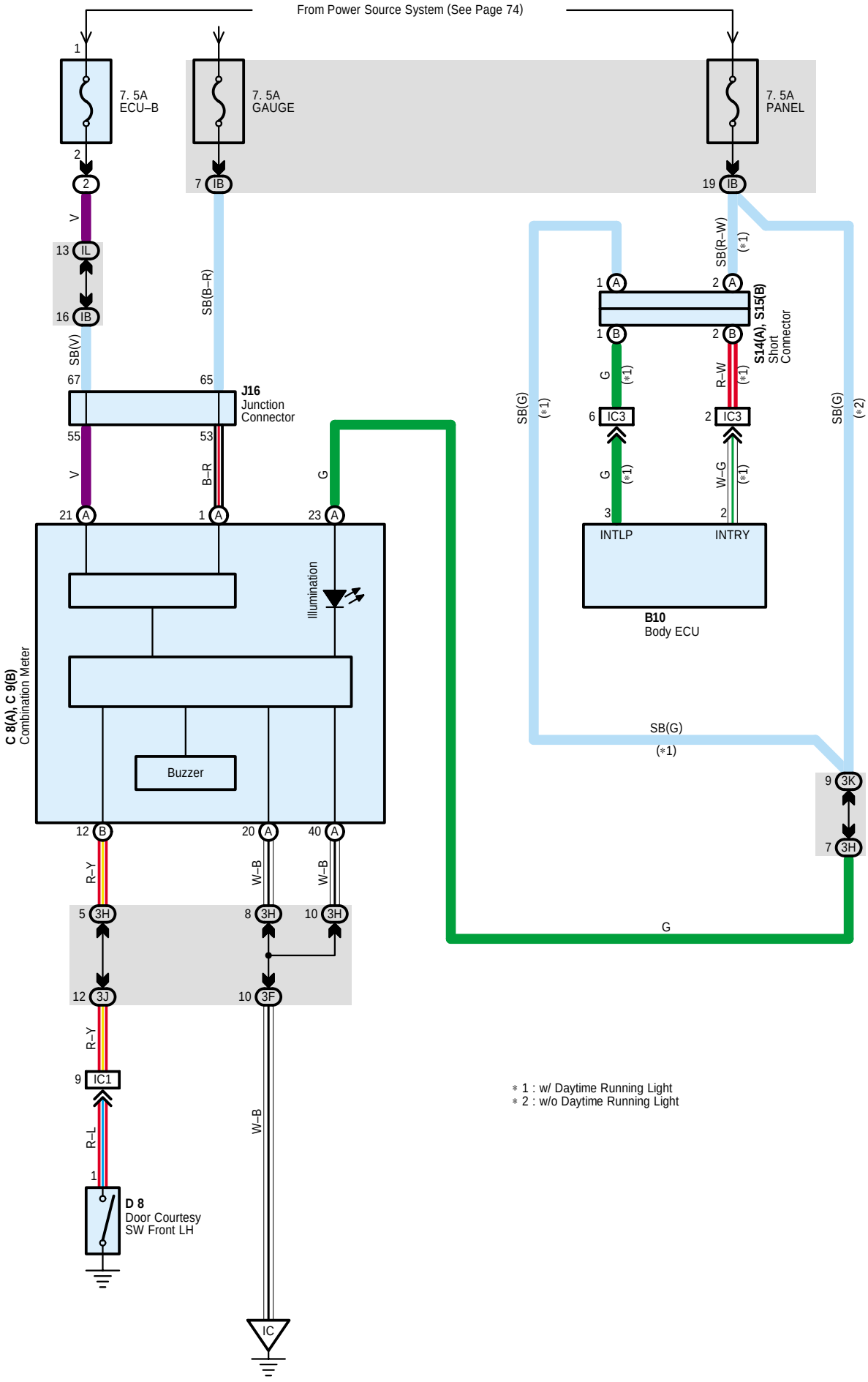



Double Lock Position SW Front RH
Power Window SW Front RH
Mirror Heater LH
Door Unlock Detection SW Front LH
J22 Junction Connector
J 1(A), J 2(B) Junction Connector
Airbag Sensor Assembly
(E1)
(E2)
Power Point Relay
IG1 Relay
Body ECU
Personal Light
Interior Light (Front)
Vanity Light LH
Vanity Light RH
(Except General)
Rear Cooler SW
Rear Cooler Resistor
Power Window Control SW Rear RH
Door Unlock Detection SW Rear RH
Double Lock Position SW Rear RH
Theft Deterrent Siren
Rear Cooler Relay
J35 Junction Connector
A/C Amplifier
Unlock Warning SW
Heater Control Panel
Cigarette Lighter
Engine and ECT ECU (A/T)
Engine ECU (M/T)
(SEL)
Ashtray Illumination
J16 Junction Connector
Radio and Player
(GND)
(VER2)
(GND)
(VER1)
(*1)
(*2)
* 1 : 1AZ–FE
* 2 : 1CD–FTV

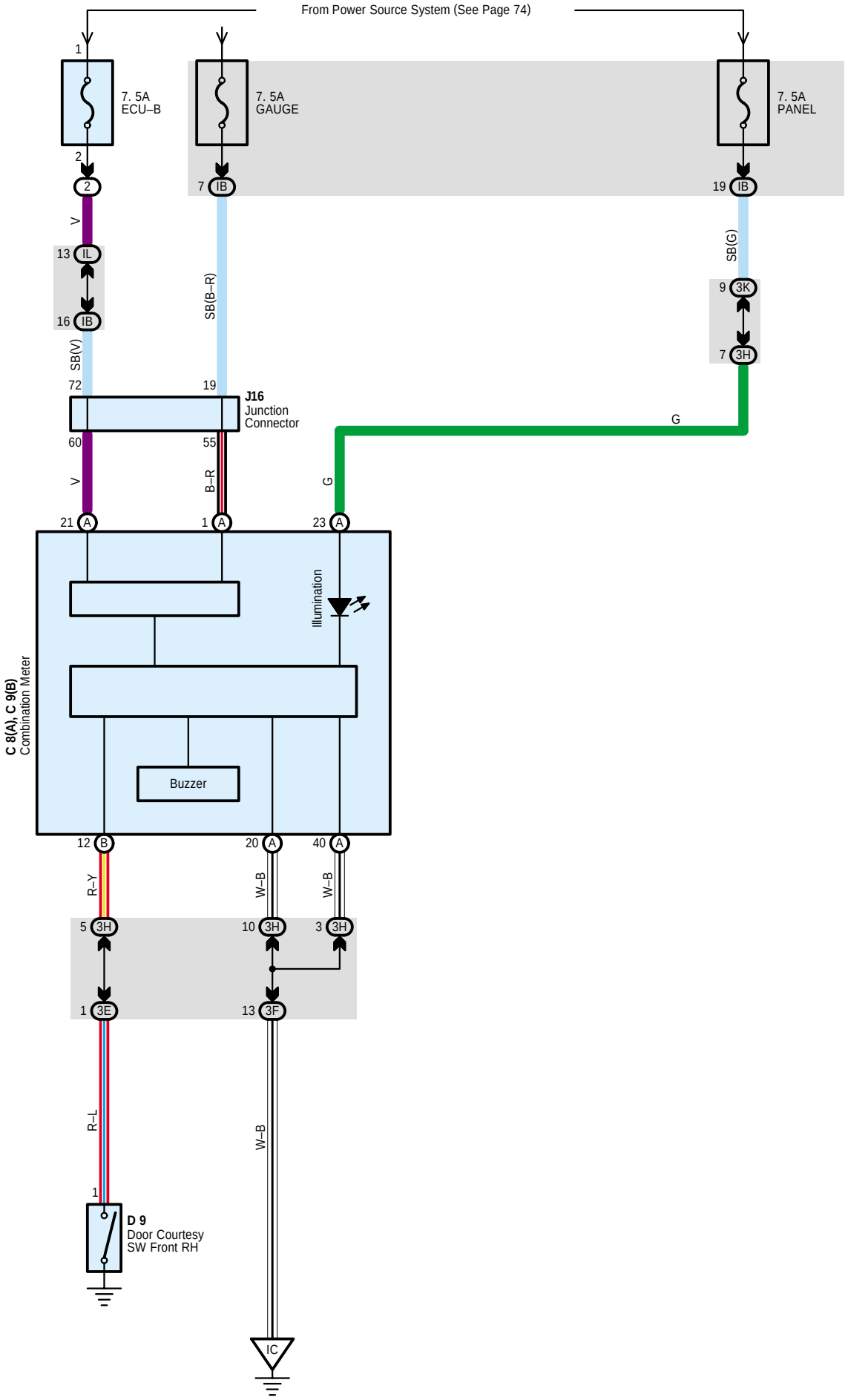
I GROUND POINT (RHD)



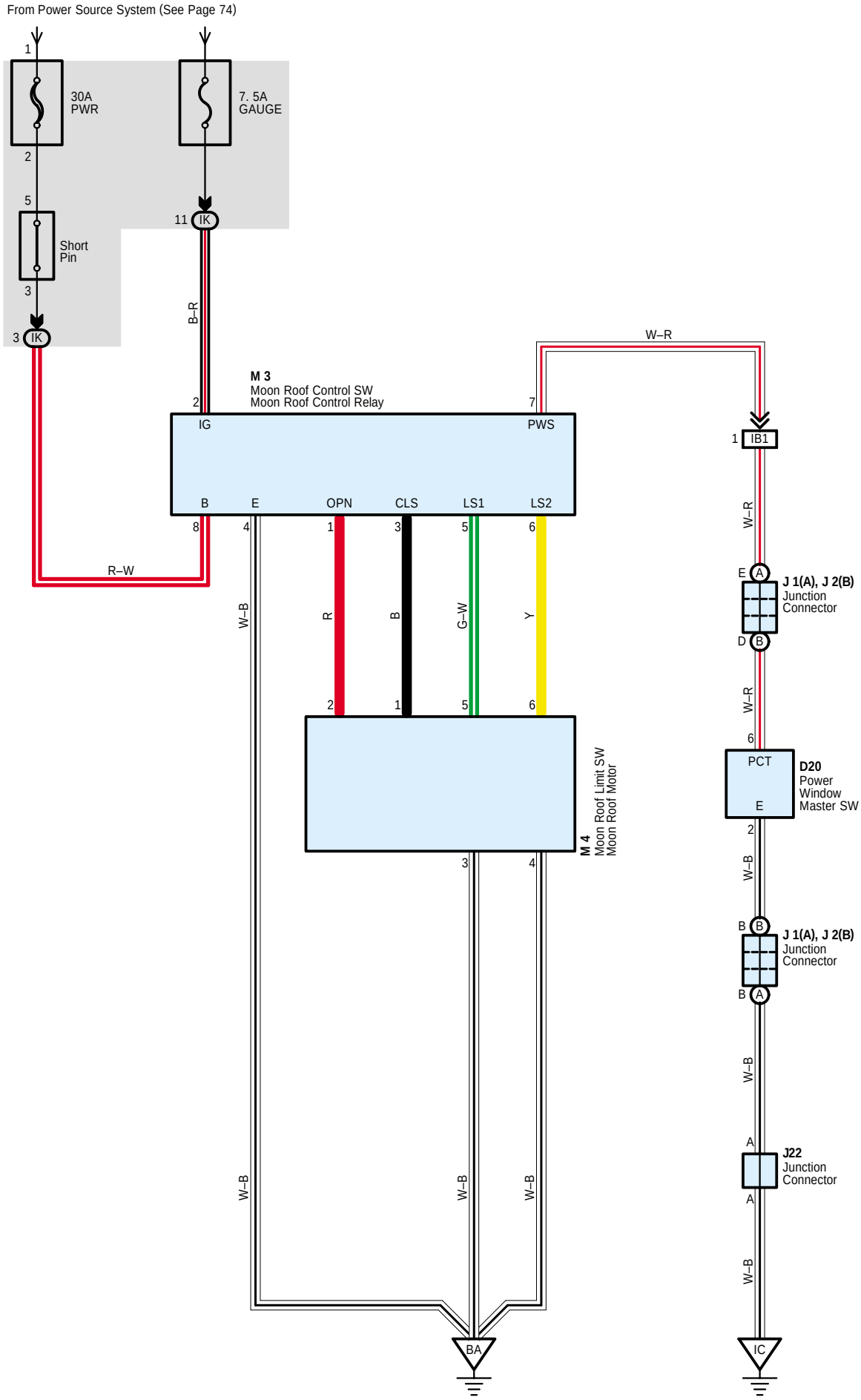
Light Reminder (LHD)



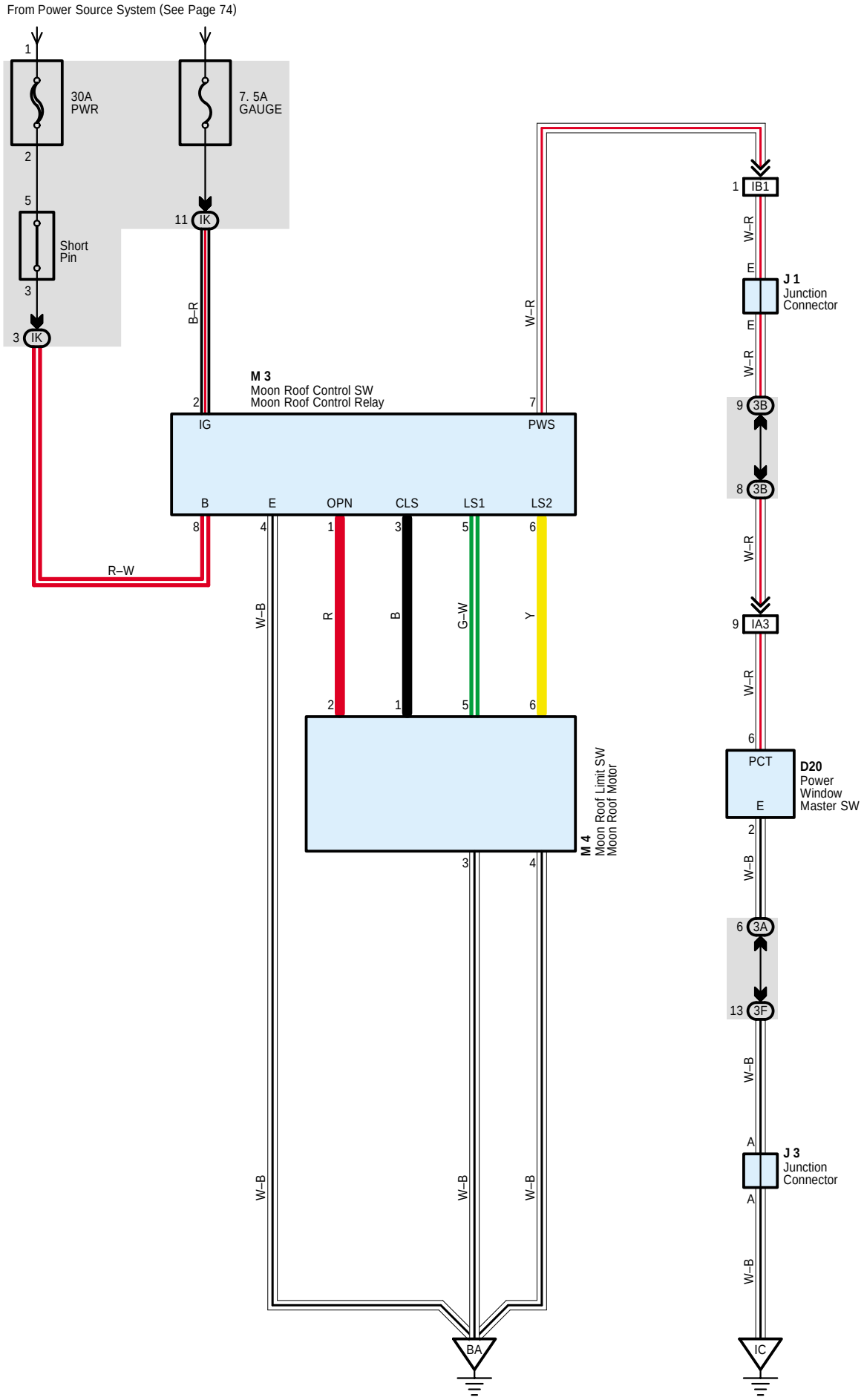
Light Reminder (RHD)

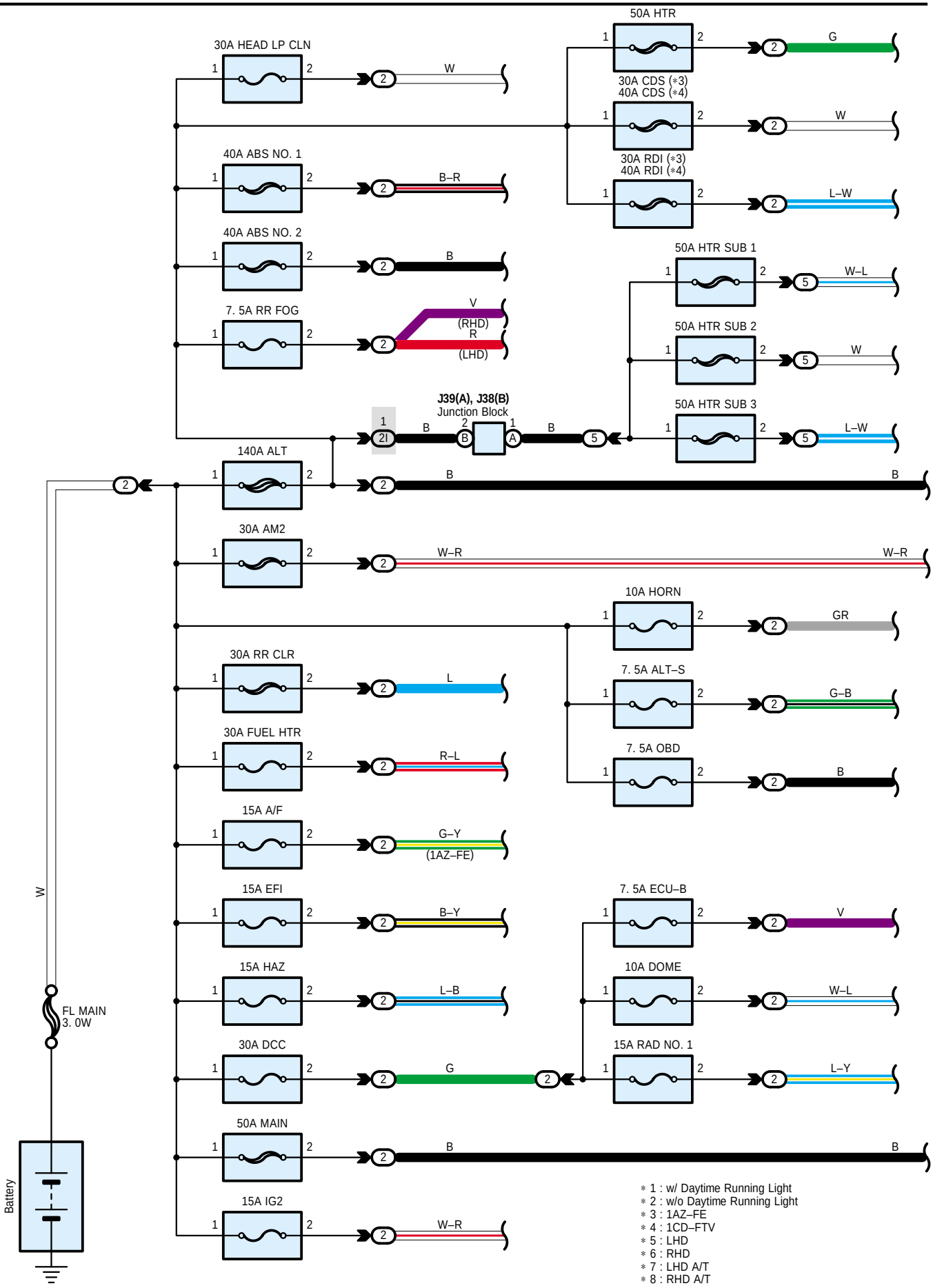


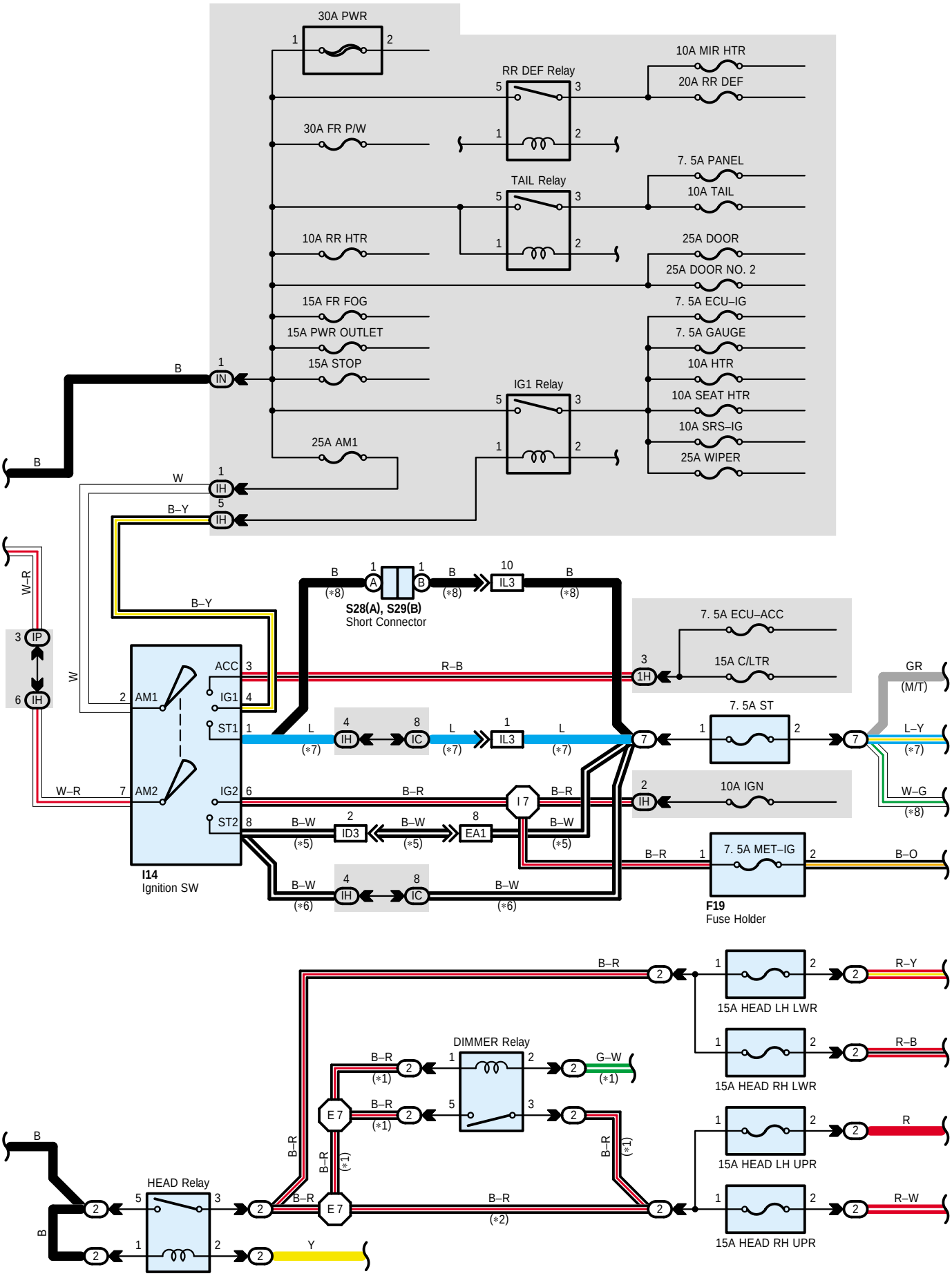
Moon Roof (LHD)



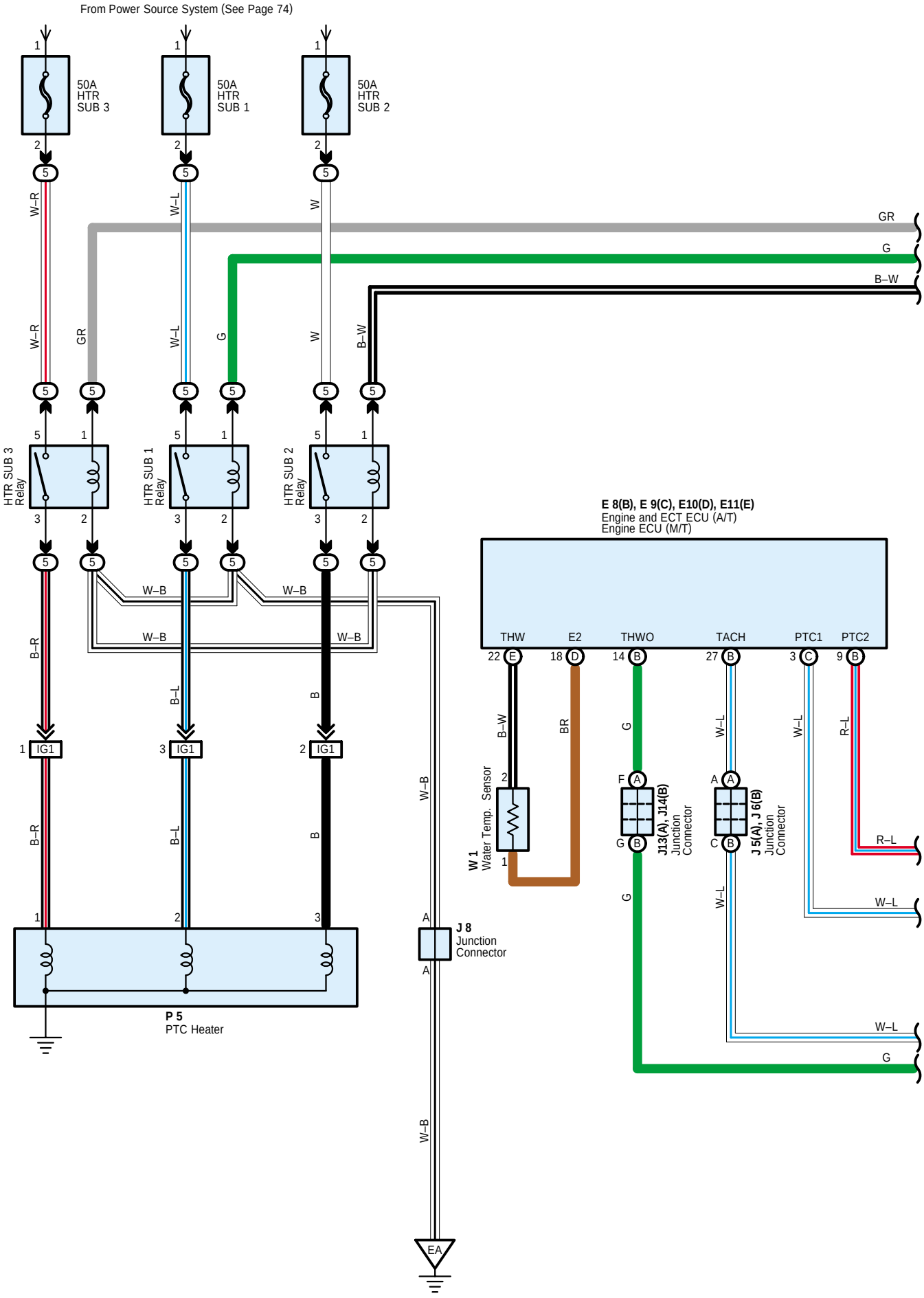
Moon Roof (RHD)

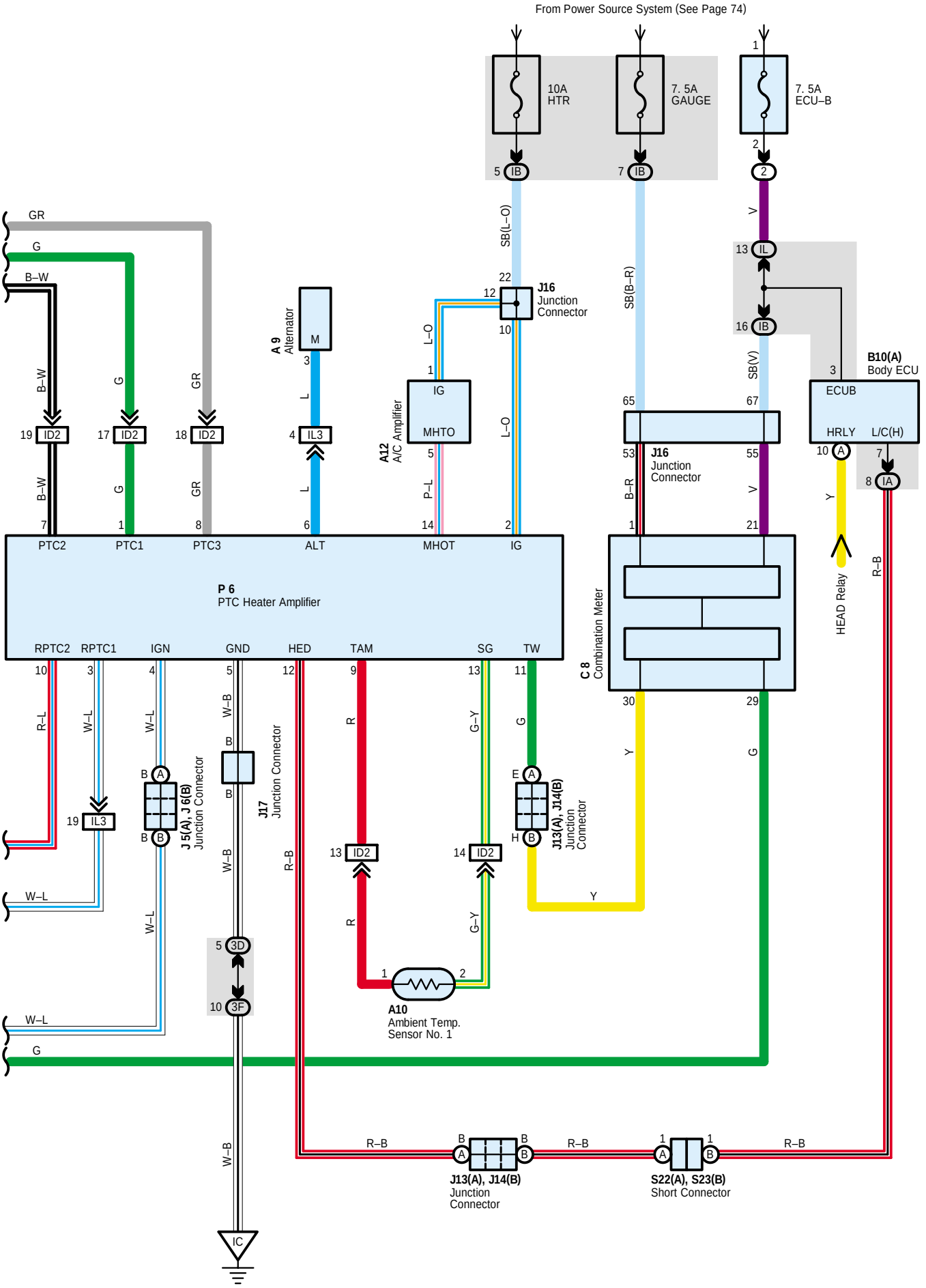



50A HTR
30A HEAD LP CLN
30A CDS (*3)
40A CDS (*4)
30A RDI (*3)
40A RDI (*4)
40A ABS NO. 1
40A ABS NO. 2
50A HTR SUB 1
50A HTR SUB 2
50A HTR SUB 3
7. 5A RR FOG
J39(A), J38(B)
Junction Block
140A ALT
30A AM2
10A HORN
30A RR CLR
7. 5A ALT–S
30A FUEL HTR
7. 5A OBD
15A A/F
15A EFI
7. 5A ECU–B
15A HAZ
10A DOME
30A DCC
15A RAD NO. 1
50A MAIN
15A IG2
FL MAIN
3. 0W
Battery
W
G
B–R
B
V
(RHD)
R
(LHD)
W–L
L–W
B
W–R
GR
L
G–B
R–L
B
G–Y
(1AZ–FE)
B–Y
V
L–B
W–L
G
L–Y
B
W–R
* 1 : w/ Daytime Running Light
* 2 : w/o Daytime Running Light
* 3 : 1AZ–FE
* 4 : 1CD–FTV
* 5 : LHD
* 6 : RHD
* 7 : LHD A/T
* 8 : RHD A/T

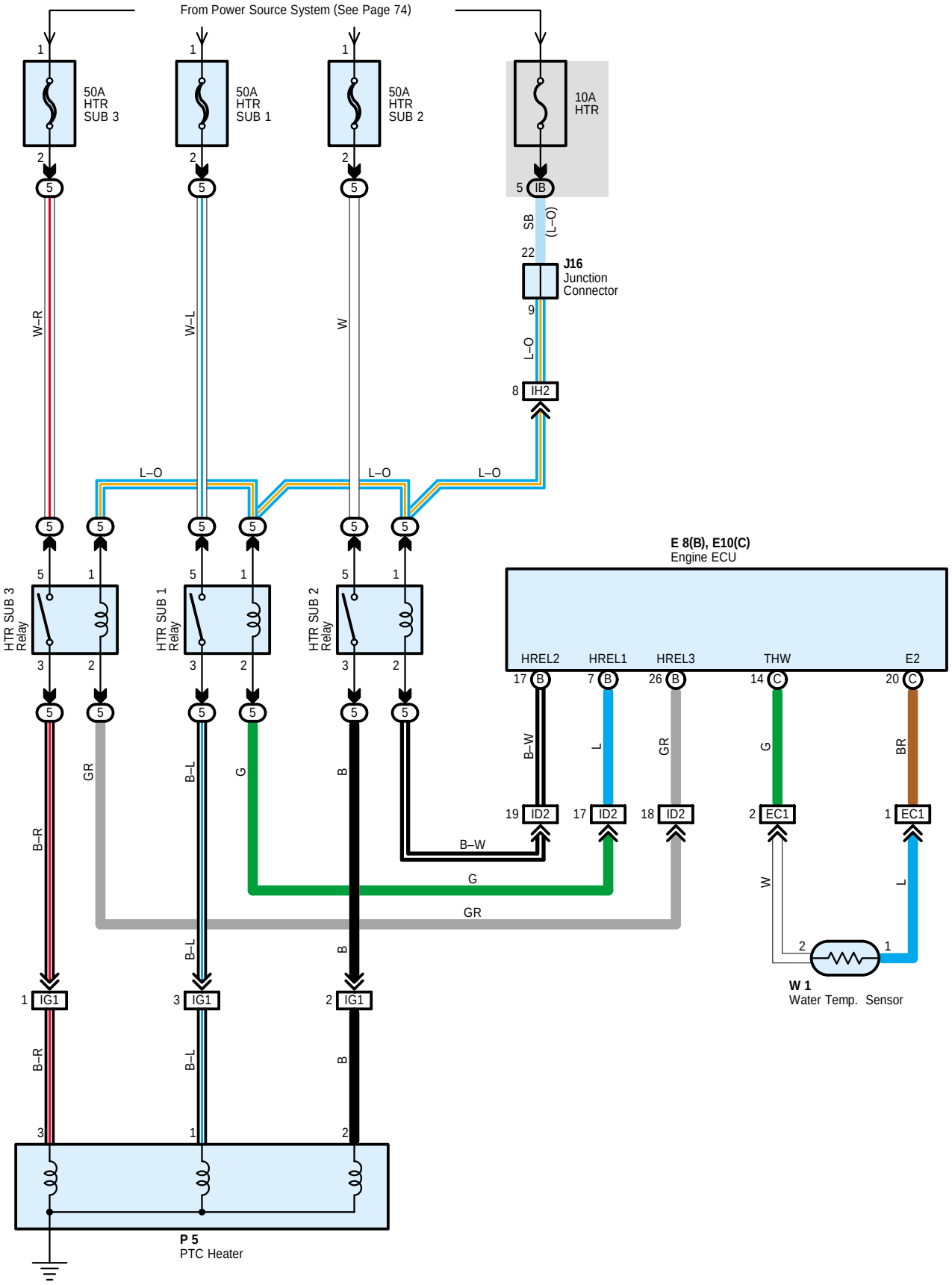

30A PWR
RR DEF Relay
10A MIR HTR
20A RR DEF
30A FR P/W
TAIL Relay
7. 5A PANEL
10A TAIL
10A RR HTR
25A DOOR
25A DOOR NO. 2
15A FR FOG
7. 5A ECU–IG
15A PWR OUTLET
7. 5A GAUGE
15A STOP
10A HTR
IG1 Relay
10A SEAT HTR
10A SRS–IG
25A AM1
25A WIPER
IN
IH
S28(A), S29(B)
Short Connector
IL3
7. 5A ECU–ACC
15A C/LTR
7. 5A ST
GR
(M/T)
L–Y
W–G
10A IGN
7. 5A MET–IG
B–O
I14
Ignition SW
F19
Fuse Holder
DIMMER Relay
G–W
15A HEAD LH LWR
15A HEAD RH LWR
15A HEAD LH UPR
15A HEAD RH UPR
HEAD Relay
R–Y
R–B
R
R–W

PTC Heater (LHD 1AZ–FE)



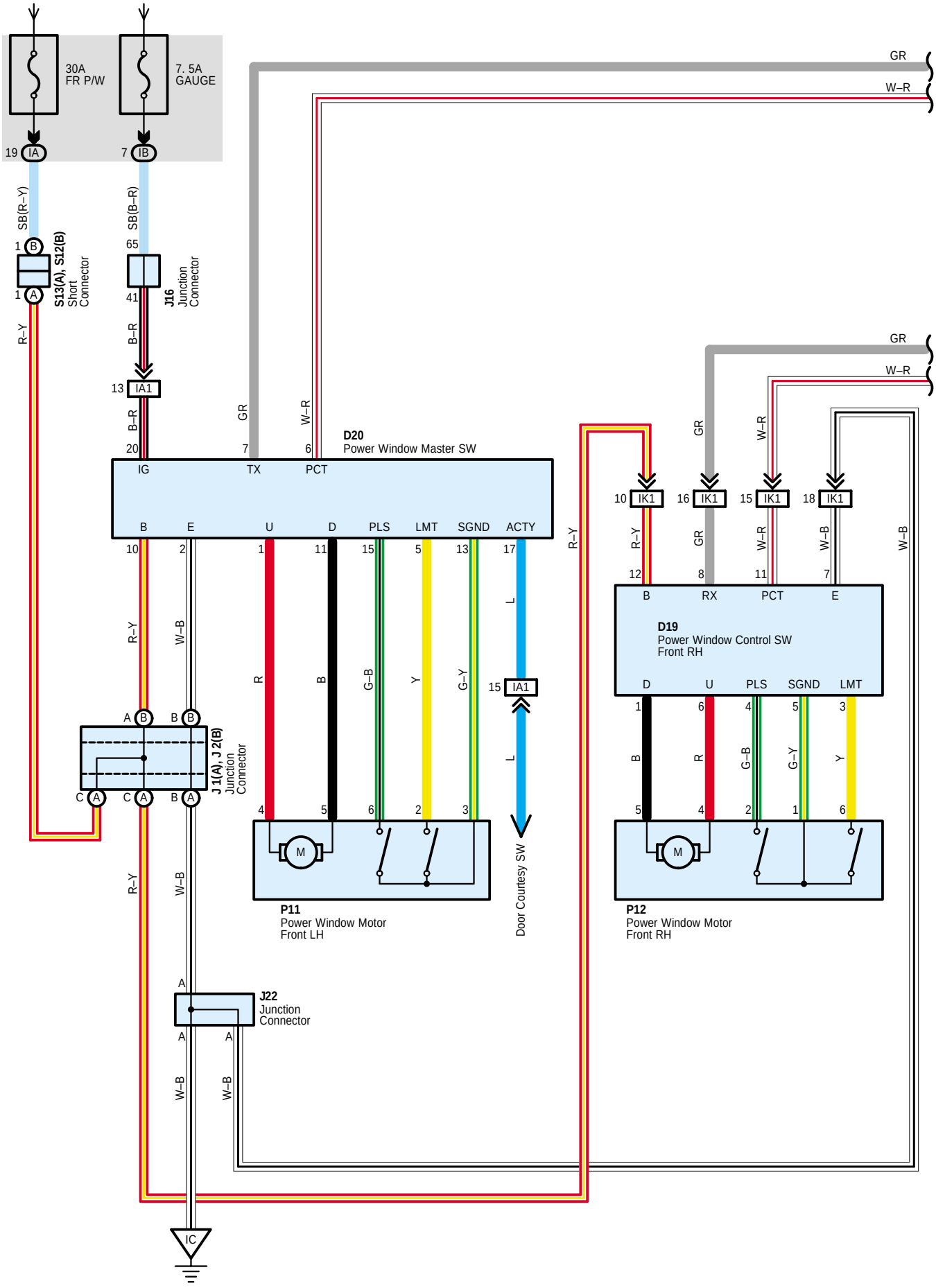

From Power Source System (See Page 74)
10A HTR
7. 5A GAUGE
7. 5A ECU–B
5 IB
7 IB
1
2
2
V
SB(L–O)
SB(B–R)
SB(V)
13 IL
16 IB
22
12
J16 Junction Connector
10
L–O
1
IG
MHTO
5
P–L
14
2
L–O
A12 A/C Amplifier
A 9 Alternator
M
3
L
4 IL3
L
6
GR
G
B–W
19 ID2
17 ID2
18 ID2
B–W
G
GR
7
1
8
PTC2
PTC1
PTC3
ALT
MHOT
IG
P 6 PTC Heater Amplifier
RPTC2
RPTC1
IGN
GND
HED
TAM
SG
TW
10
3
4
5
12
9
13
11
R–L
W–L
W–L
W–B
R–B
R
G–Y
G
19 IL3
B A
B B
J 5(A), J 6(B) Junction Connector
B
B
W–B
J17 Junction Connector
13 ID2
14 ID2
R
G–Y
E A
H B
J13(A), J14(B) Junction Connector
W–L
W–L
5 3D
10 3F
1
2
A10 Ambient Temp. Sensor No. 1
Y
W–L
G
W–B
IC
R–B
B A
B B
J13(A), J14(B) Junction Connector
R–B
1 A
1 B
S22(A), S23(B) Short Connector
R–B
65
67
53
55
1
21
30
29
B–R
J16 Junction Connector
V
Y
G
C 8 Combination Meter
3
ECUB
HRLY
L/C(H)
10 A
7
8 IA
B10(A) Body ECU
Y
HEAD Relay
R–B

PTC Heater (LHD 1CD–FTV)

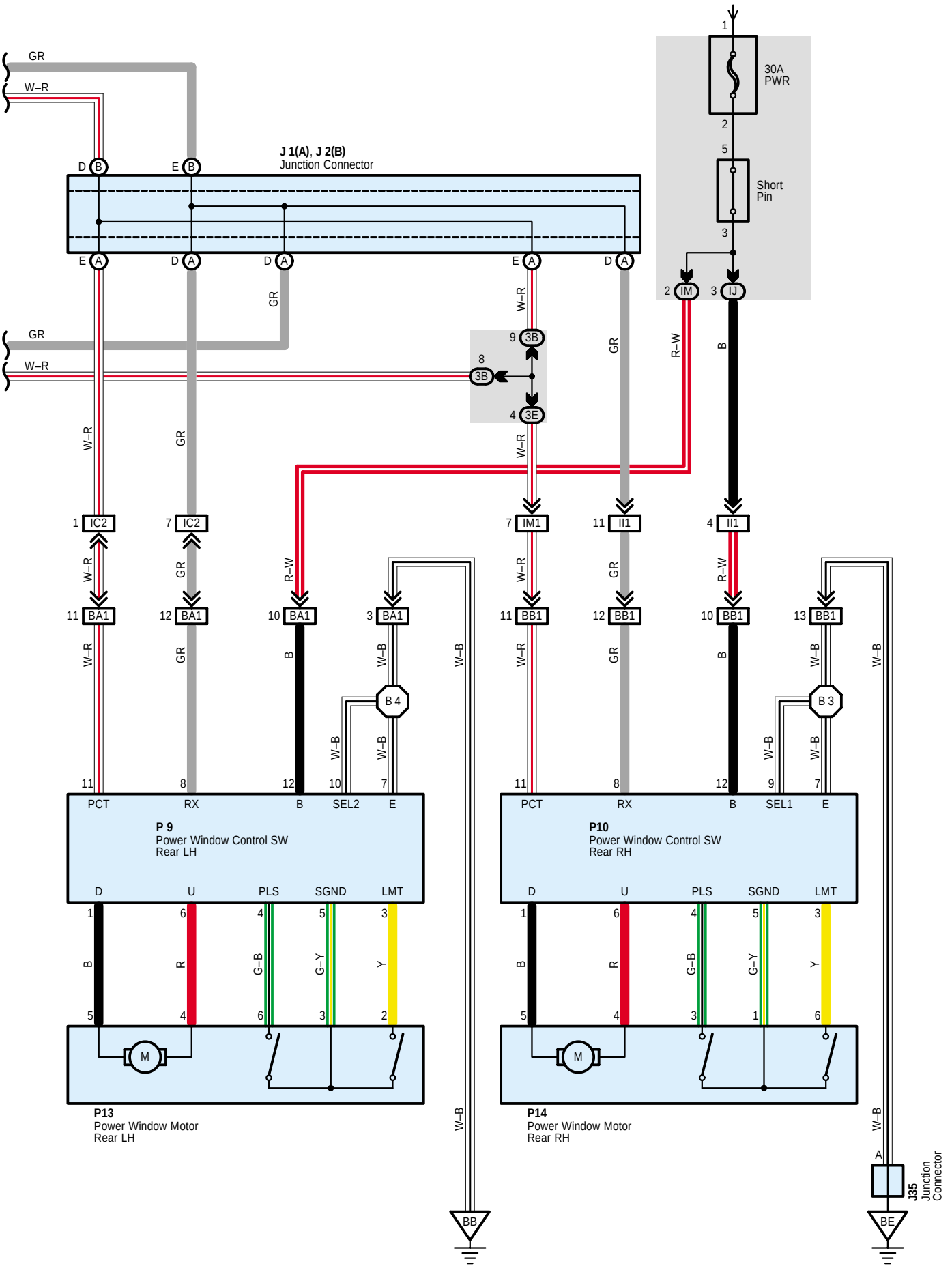


Power Window (LHD)

From Power Source System (See Page 74)

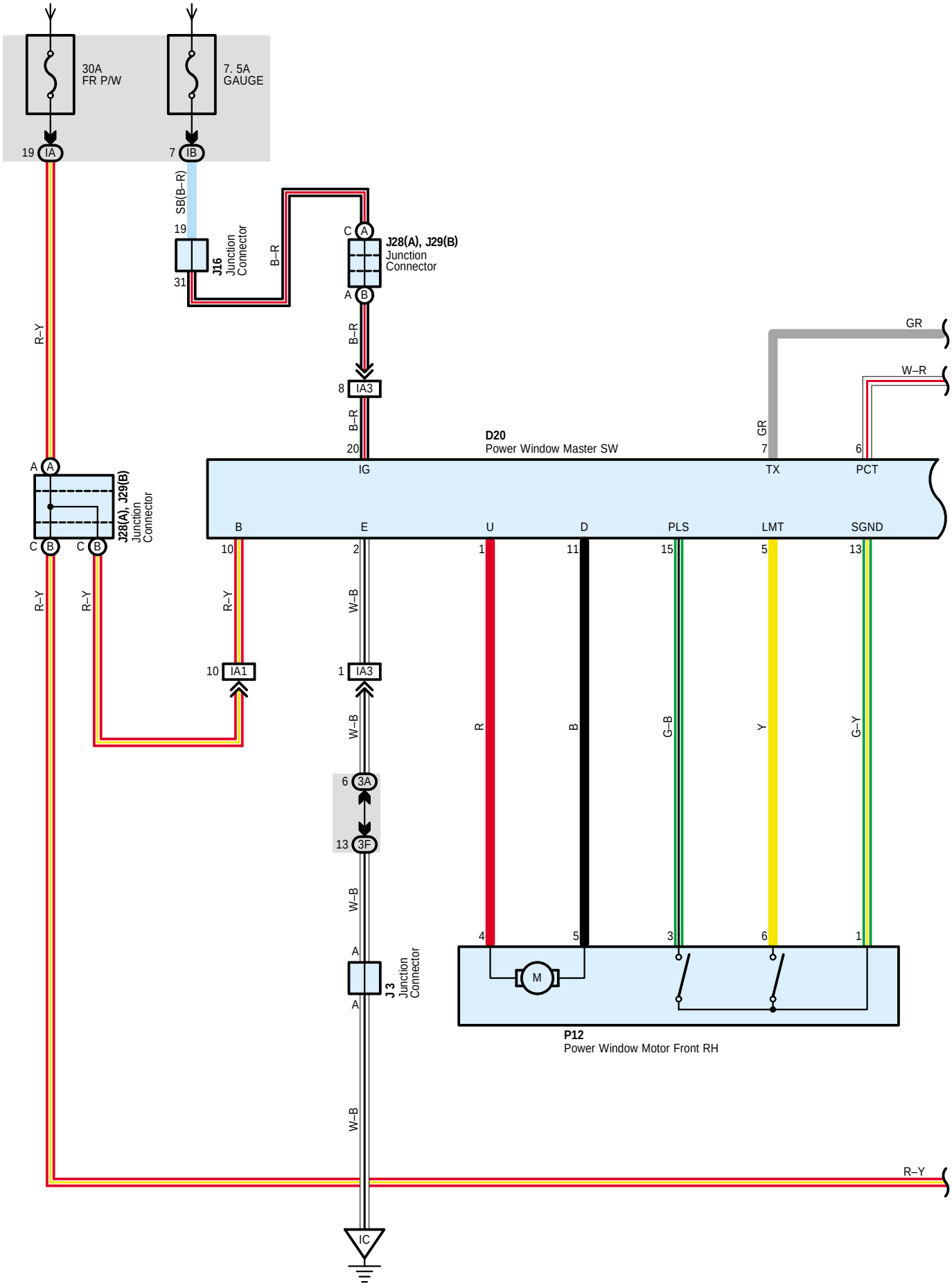


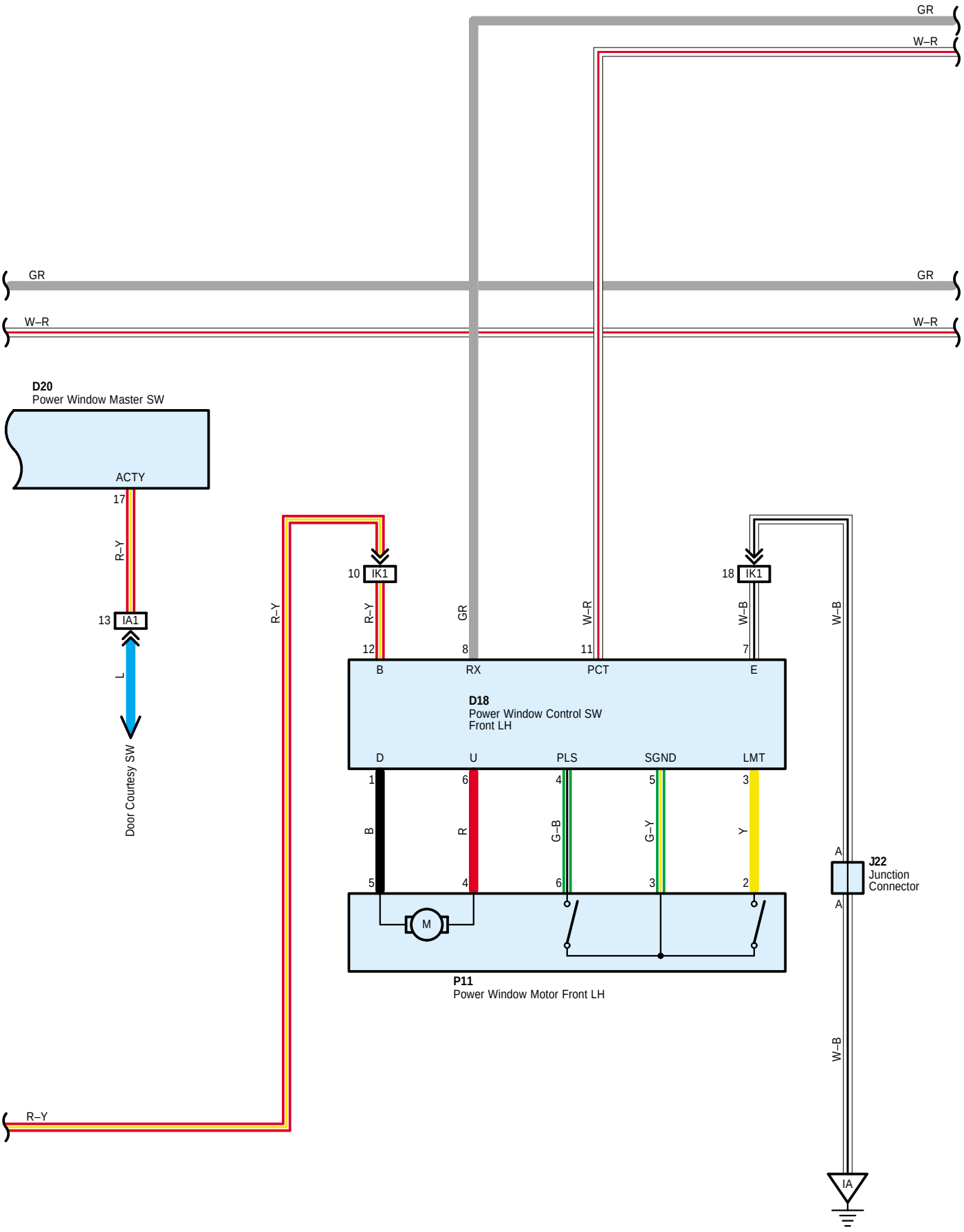
From Power Source System (See Page 74)



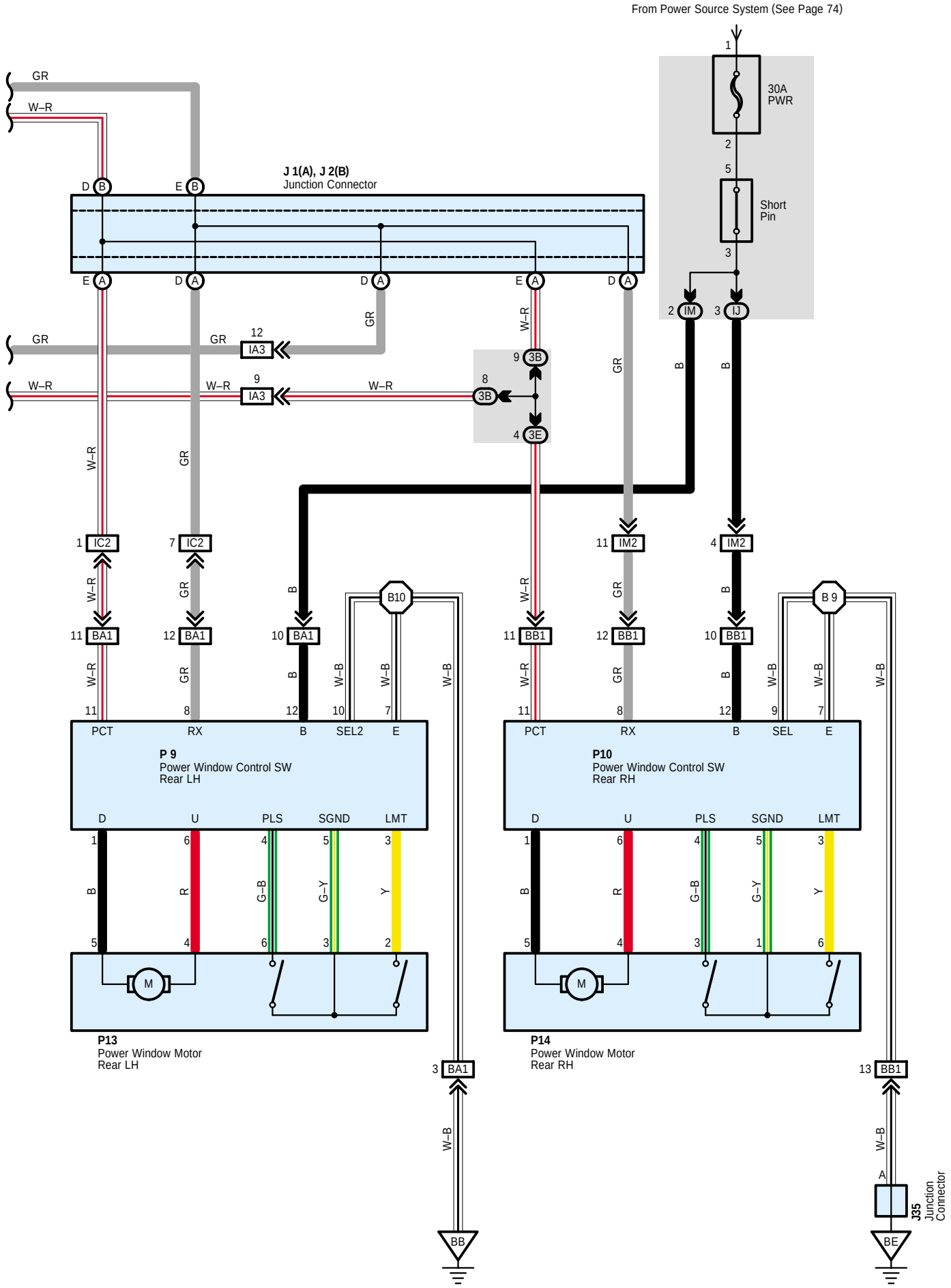
Power Window (RHD)

From Power Source System (See Page 74)

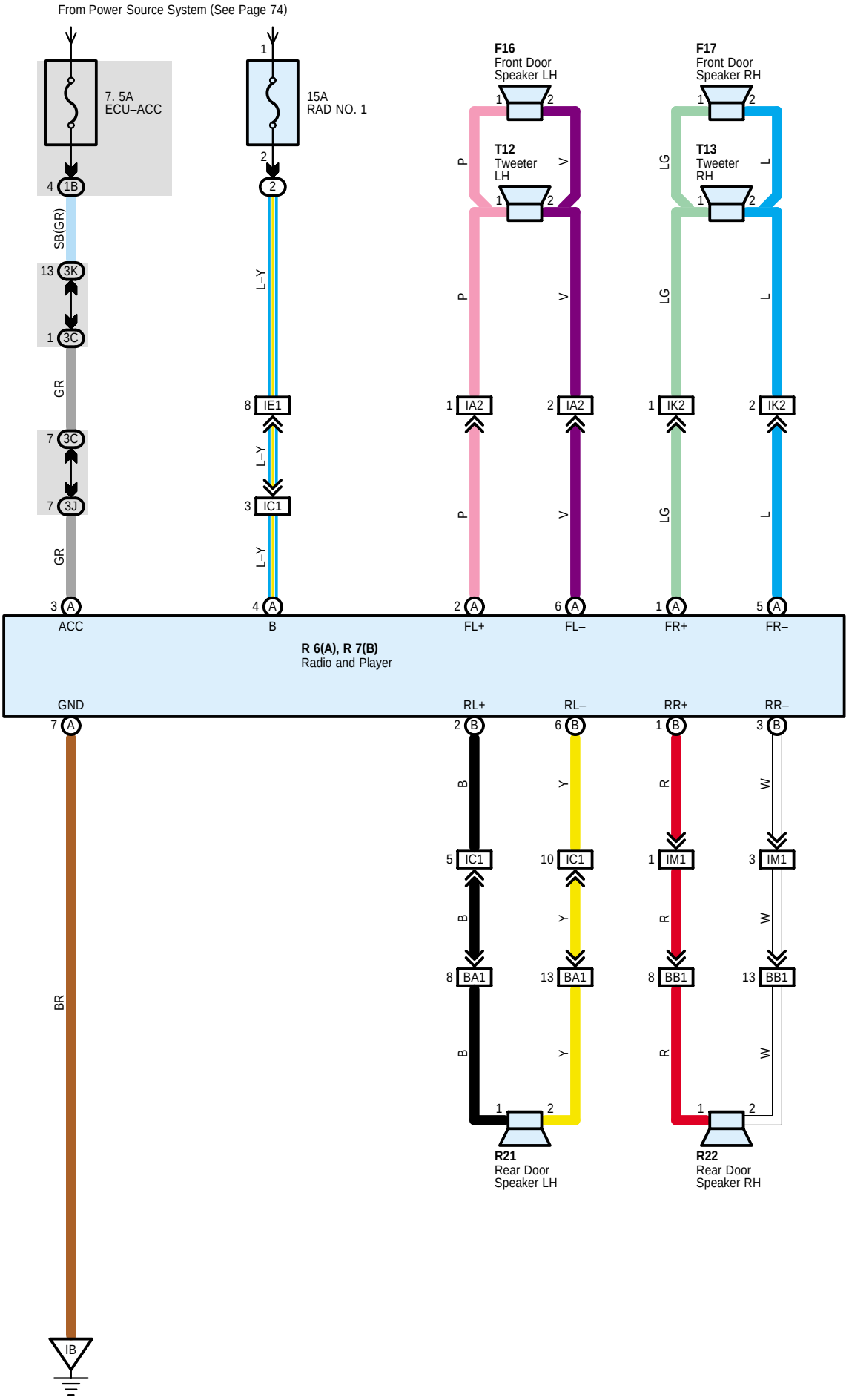



GR
W–R
GR
GR
W–R
W–R
D20
Power Window Master SW
ACTY
17
R–Y
13
IA1
L
Door Courtesy SW
R–Y
10
IK1
R–Y
12
B
GR
8
RX
W–R
11
PCT
18
IK1
W–B
7
E
W–B
D18
Power Window Control SW
Front LH
D
U
PLS
SGND
LMT
1
6
4
5
3
B
R
G–B
G–Y
Y
5
4
6
3
2
M
P11
Power Window Motor Front LH
A
J22
Junction
Connector
A
W–B
IA
R–Y

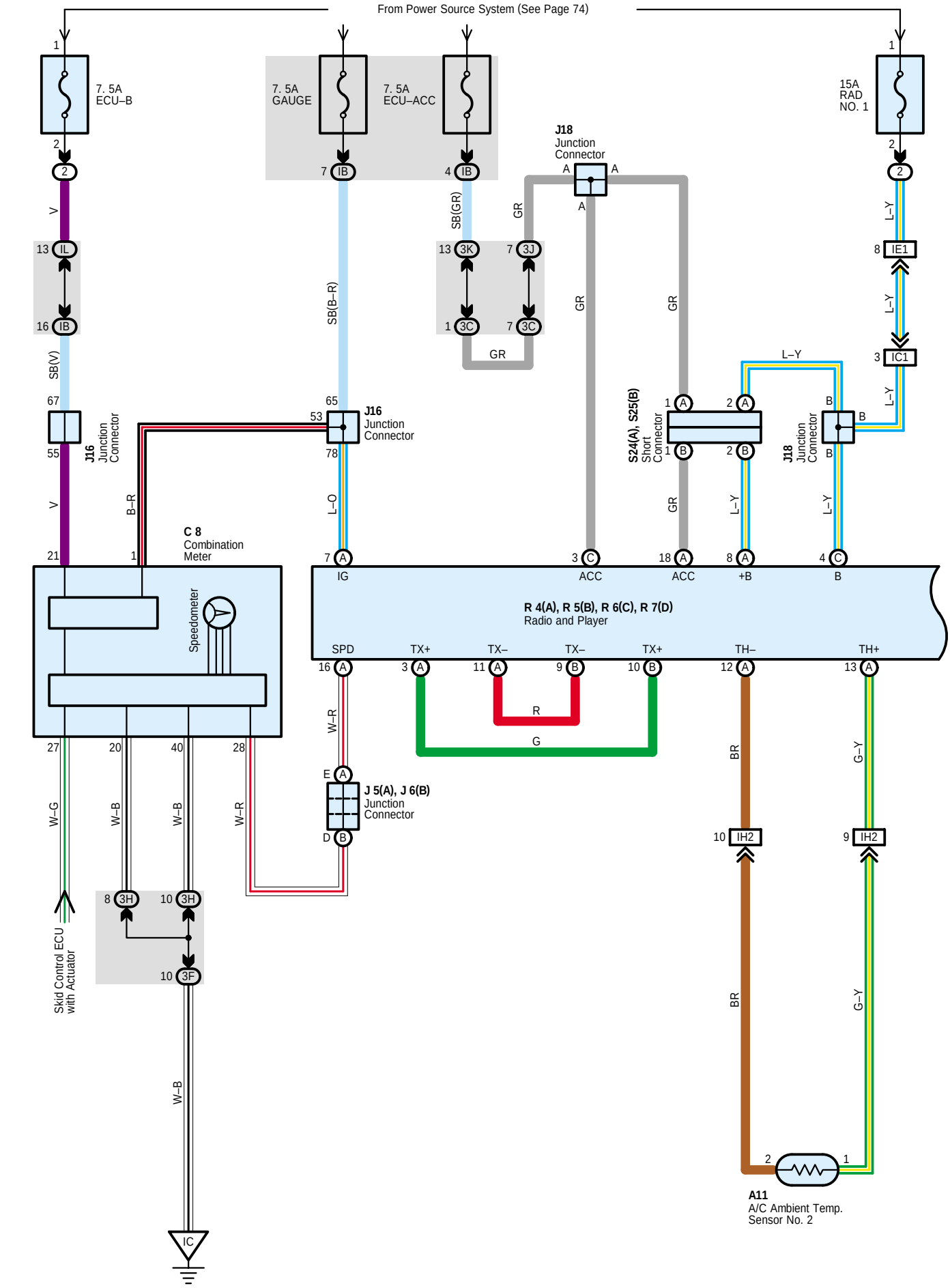
Power Window (RHD)

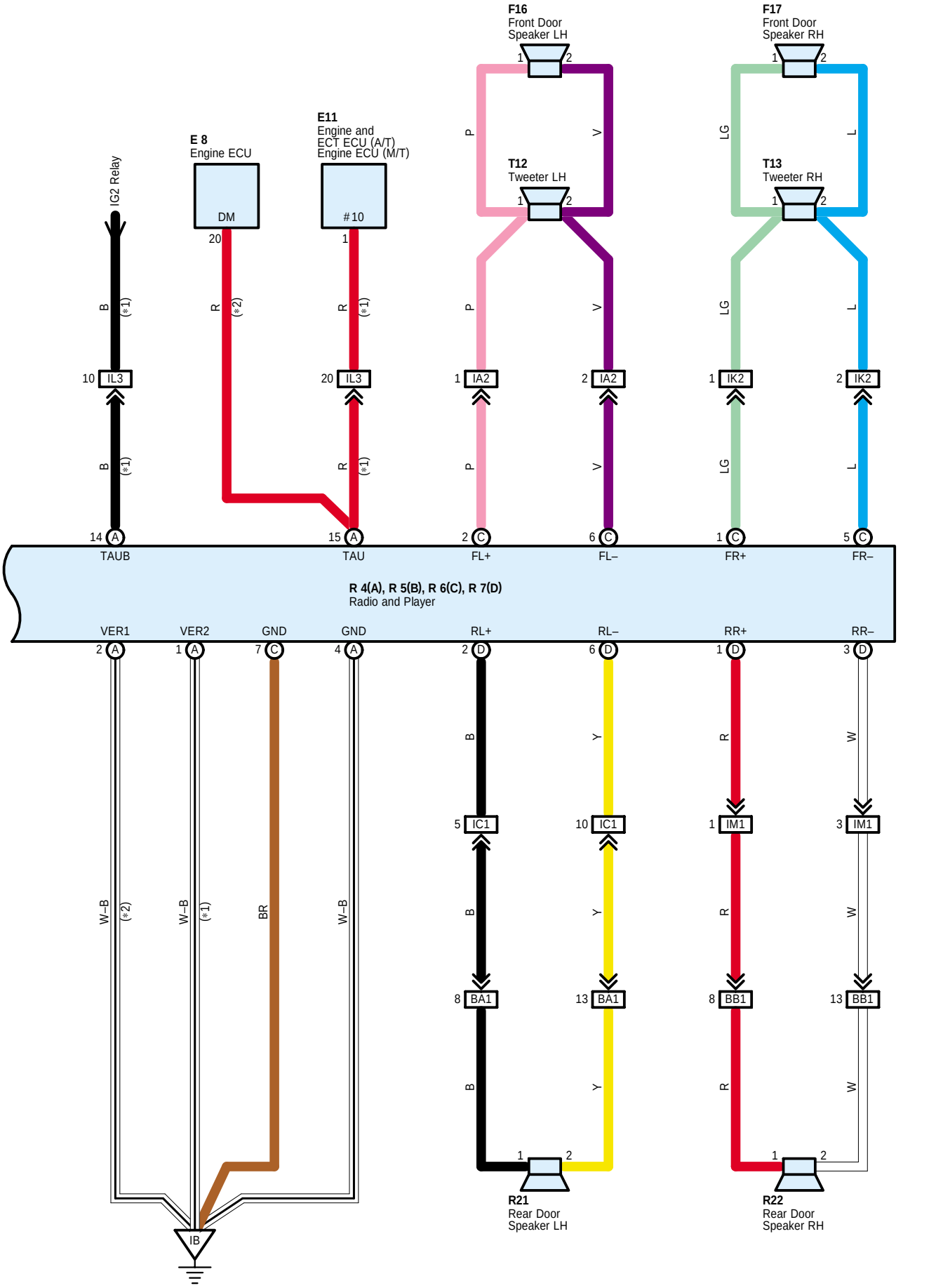


Radio and Player (LHD w/o Display)

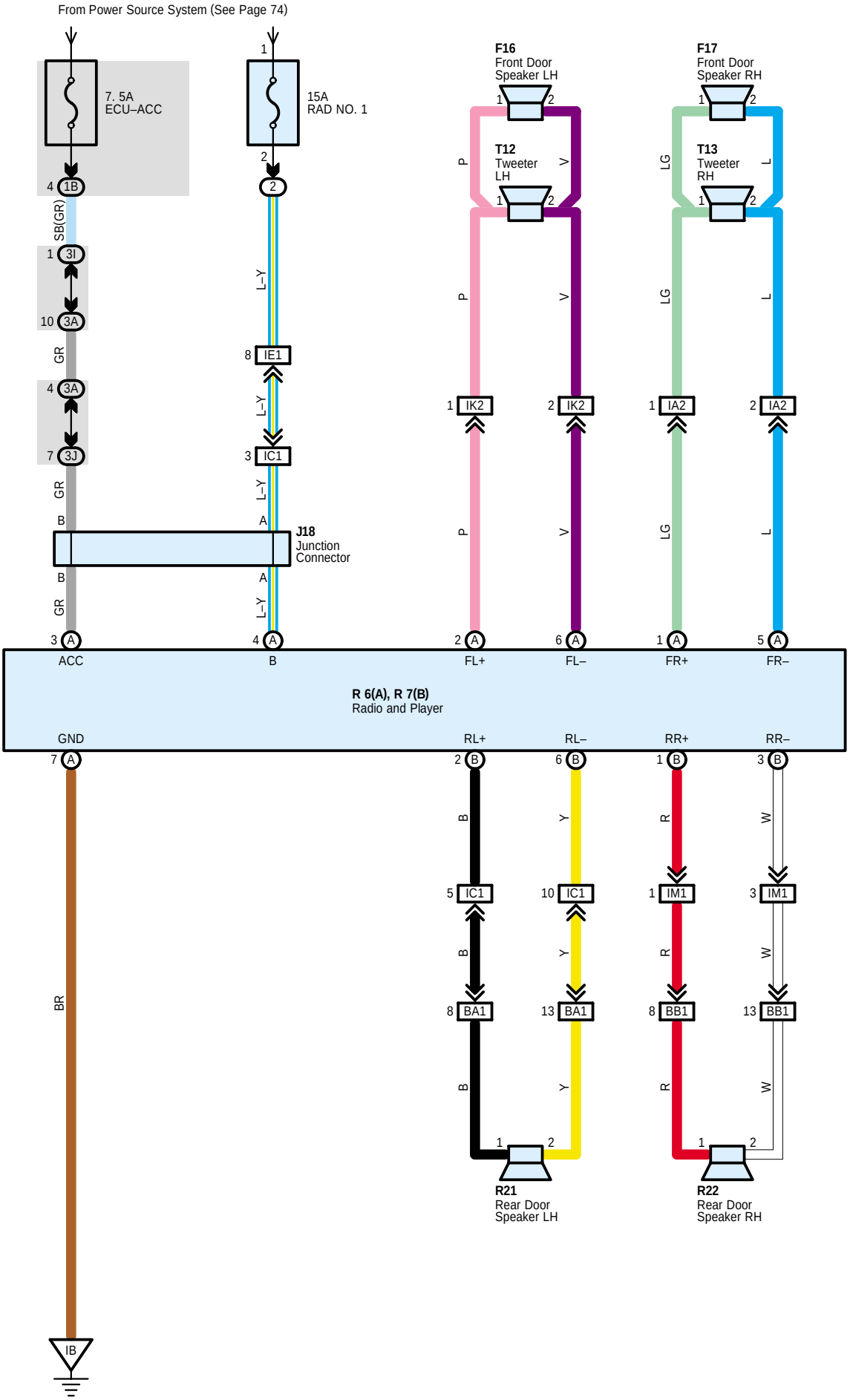


Radio and Player (LHD w/ Display)

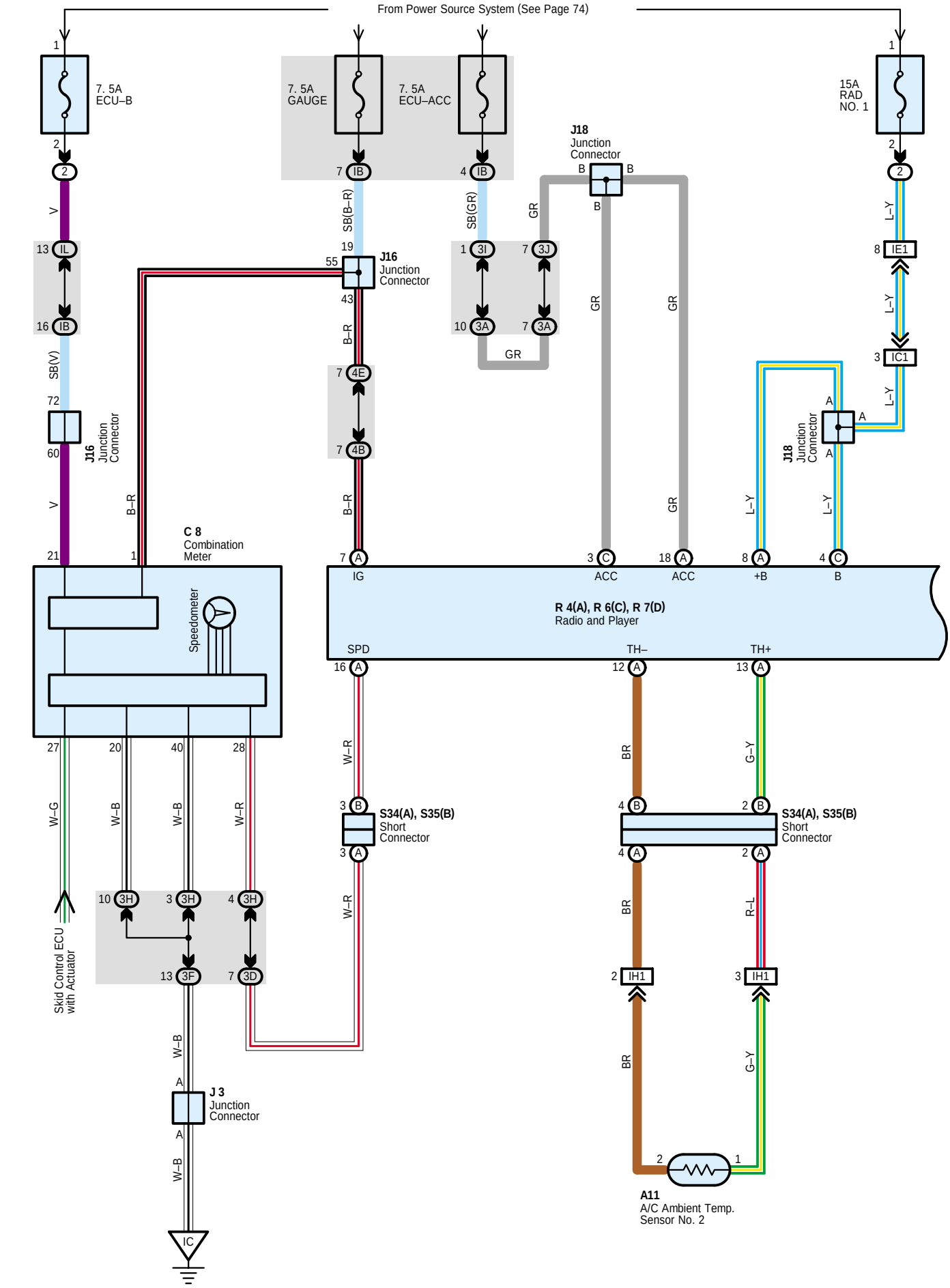


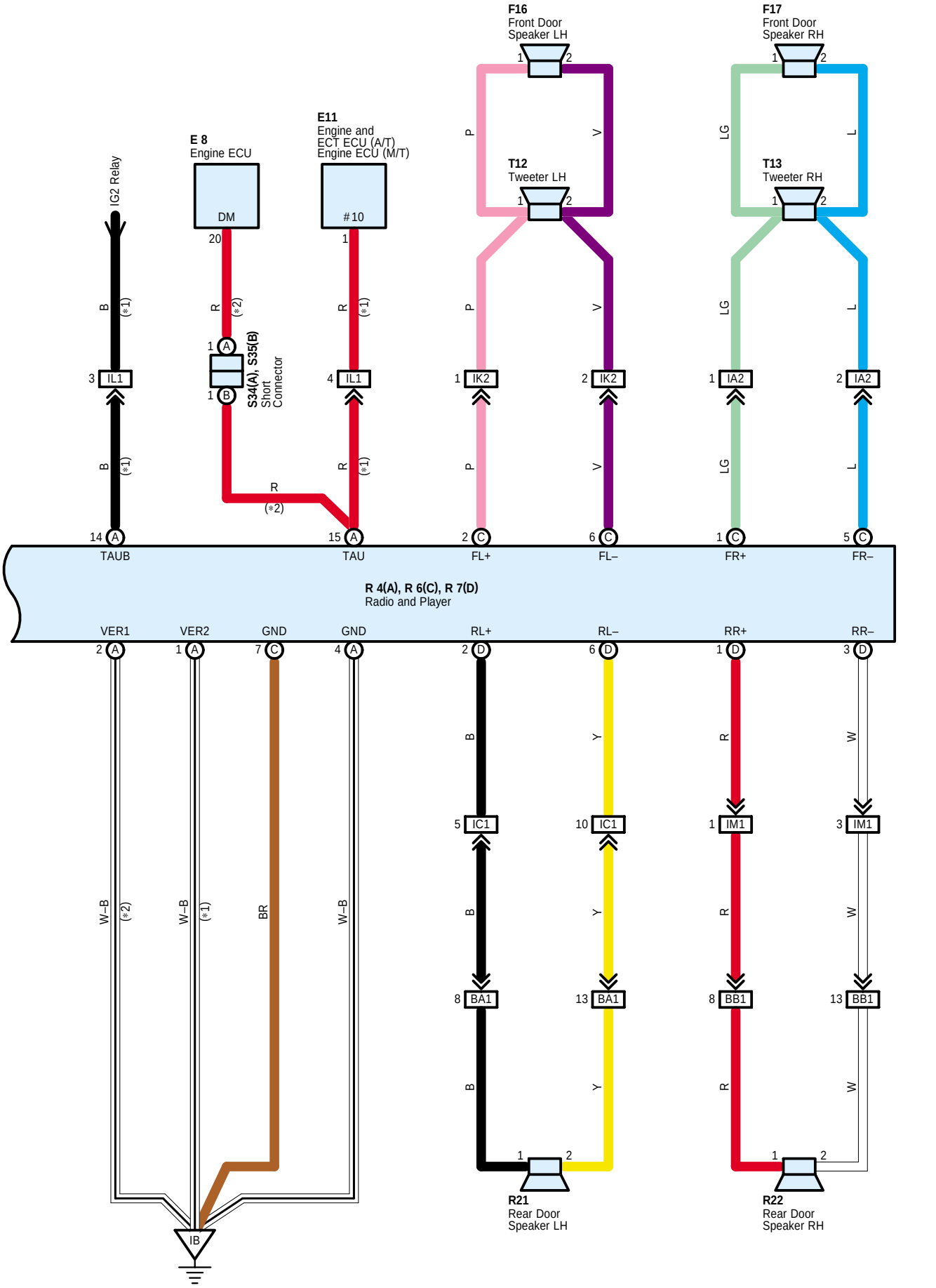

* 1 : 1AZ–FE
* 2 : 1CD–FTV
IG2 Relay
E 8
Engine ECU
DM
E11
Engine and
ECT ECU (A/T)
Engine ECU (M/T)
#10
F16
Front Door
Speaker LH
T12
Tweeter LH
F17
Front Door
Speaker RH
T13
Tweeter RH
B (*1)
R (*2)
R (*1)
P
V
LG
L
10 IL3
20 IL3
1 IA2
2 IA2
1 IK2
2 IK2
14 A TAUB
15 A TAU
2 C FL+
6 C FL–
1 C FR+
5 C FR–
R 4(A), R 5(B), R 6(C), R 7(D)
Radio and Player
VER1
VER2
GND
GND
RL+
RL–
RR+
RR–
2 A
1 A
7 C
4 A
2 D
6 D
1 D
3 D
W–B (*2)
W–B (*1)
BR
W–B
B
Y
R
W
5 IC1
10 IC1
1 IM1
3 IM1
8 BA1
13 BA1
8 BB1
13 BB1
IB
R21
Rear Door
Speaker LH
R22
Rear Door
Speaker RH

Radio and Player (RHD w/o Display)

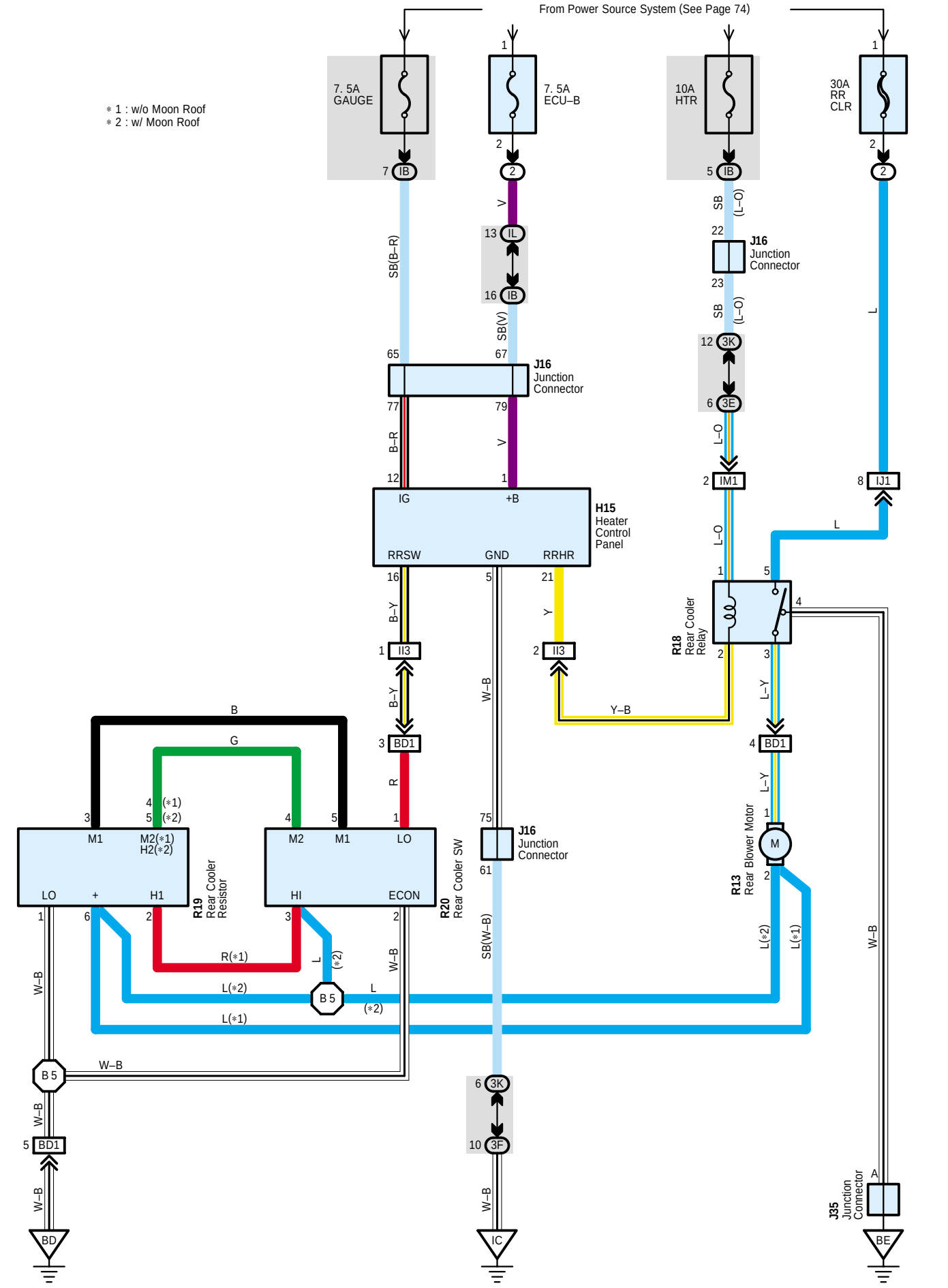


Radio and Player (RHD w/ Display)

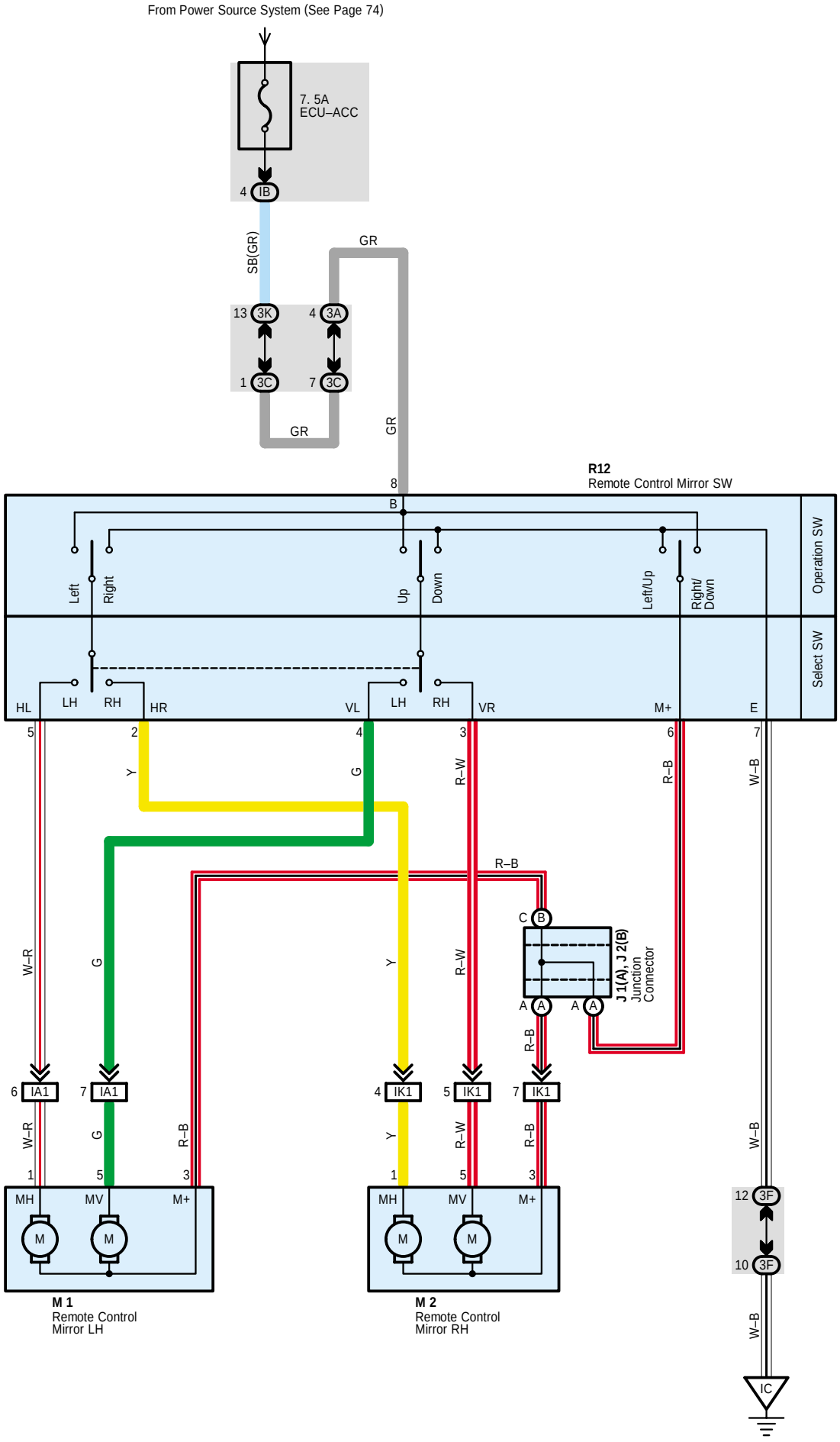



* 1 : 1AZ–FE
* 2 : 1CD–FTV
IG2 Relay
E 8
Engine ECU
DM
20
E11
Engine and
ECT ECU (A/T)
Engine ECU (M/T)
#10
1
F16
Front Door
Speaker LH
F17
Front Door
Speaker RH
T12
Tweeter LH
T13
Tweeter RH
B (*1)
R (*2)
P
V
LG
L
S34(A), S35(B)
Short
Connector
3 IL1
4 IL1
1 IK2
2 IK2
1 IA2
2 IA2
14 TAUB
15 TAU
2 FL+
6 FL–
1 FR+
5 FR–
R 4(A), R 6(C), R 7(D)
Radio and Player
VER1
VER2
GND
GND
RL+
RL–
RR+
RR–
W–B (*2)
W–B (*1)
BR
W–B
5 IC1
10 IC1
1 IM1
3 IM1
8 BA1
13 BA1
8 BB1
13 BB1
R21
Rear Door
Speaker LH
R22
Rear Door
Speaker RH
IB

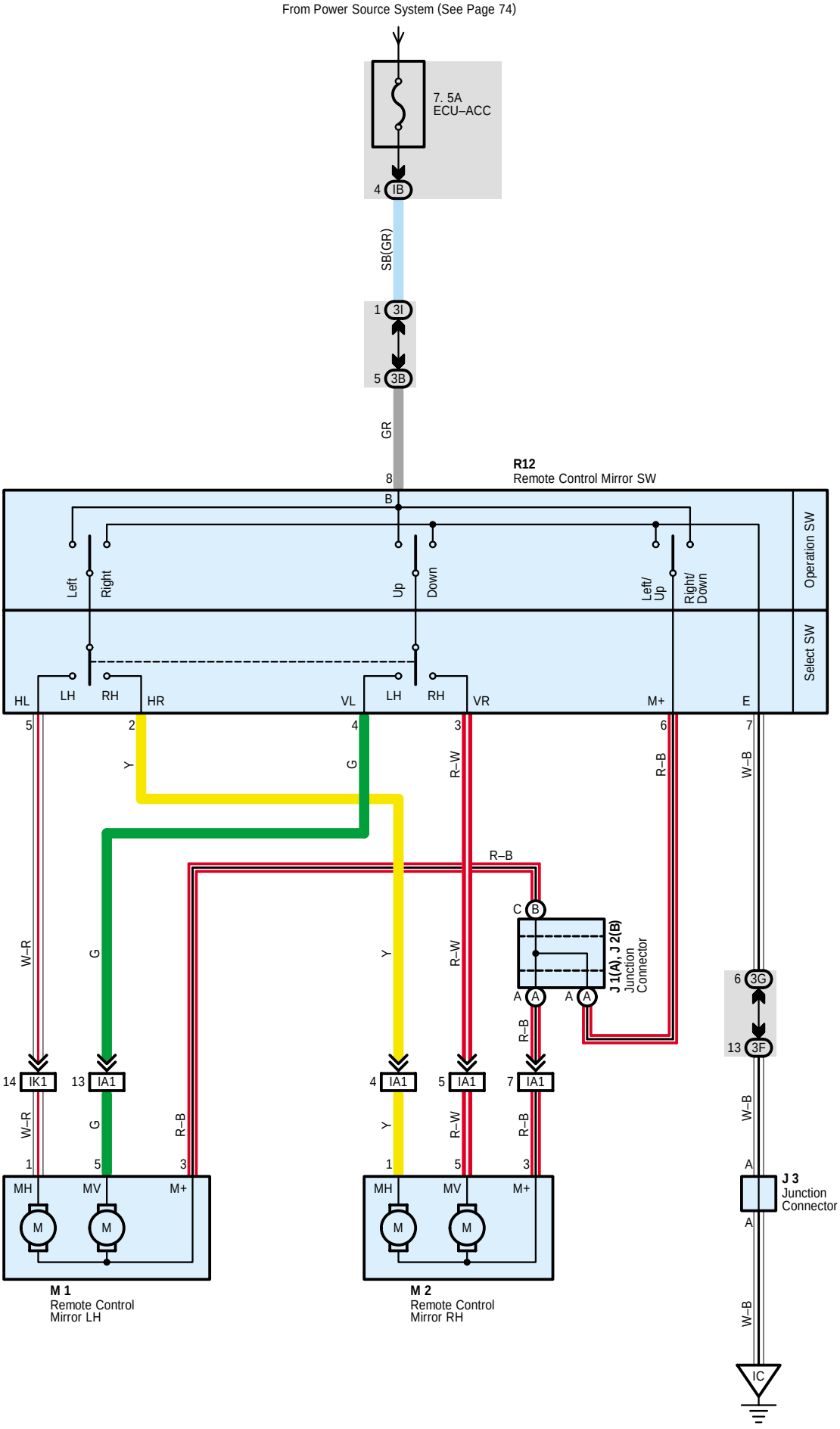
Rear Cooler (LHD)



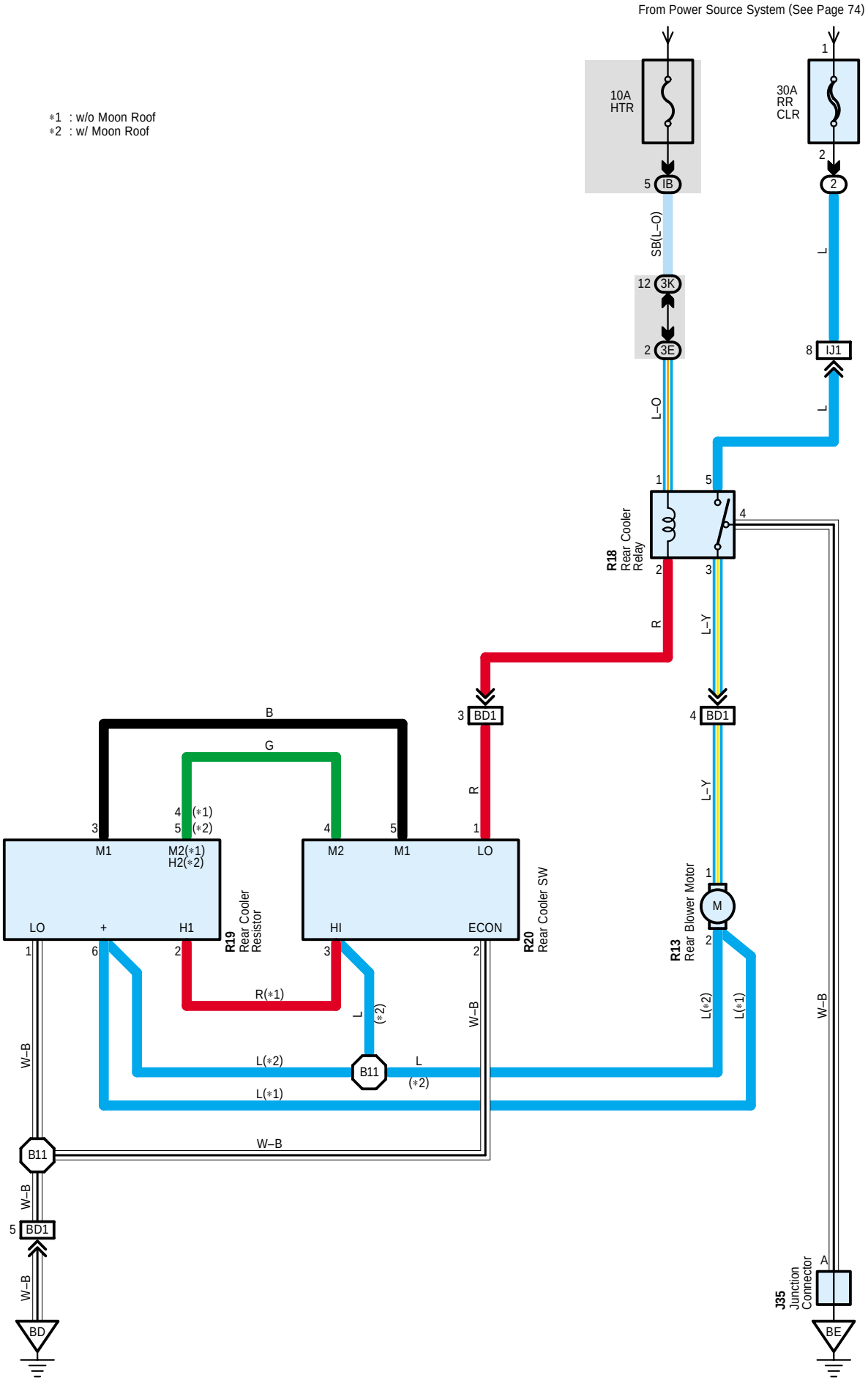
Remote Control Mirror (LHD)



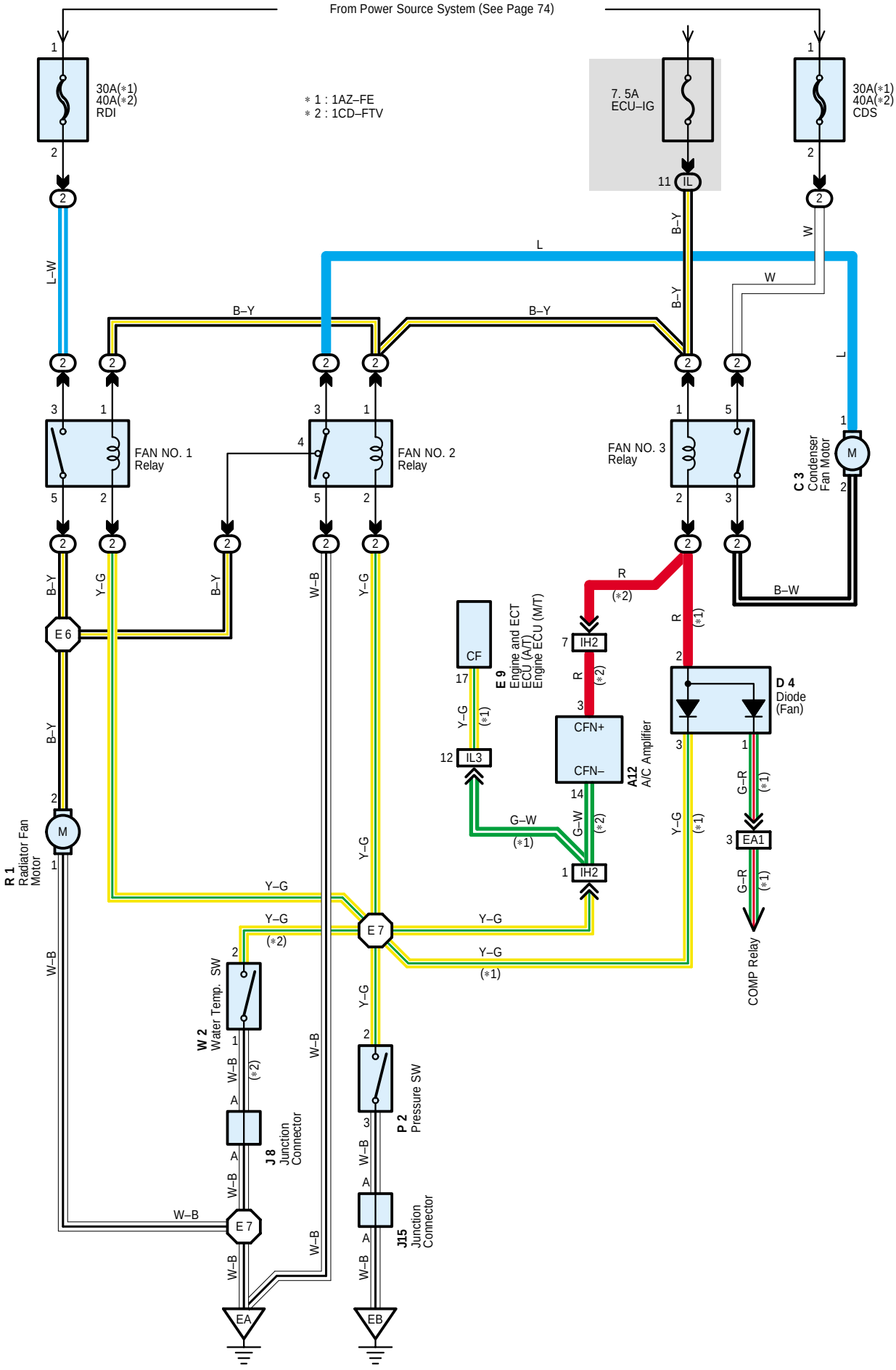
Remote Control Mirror (RHD)



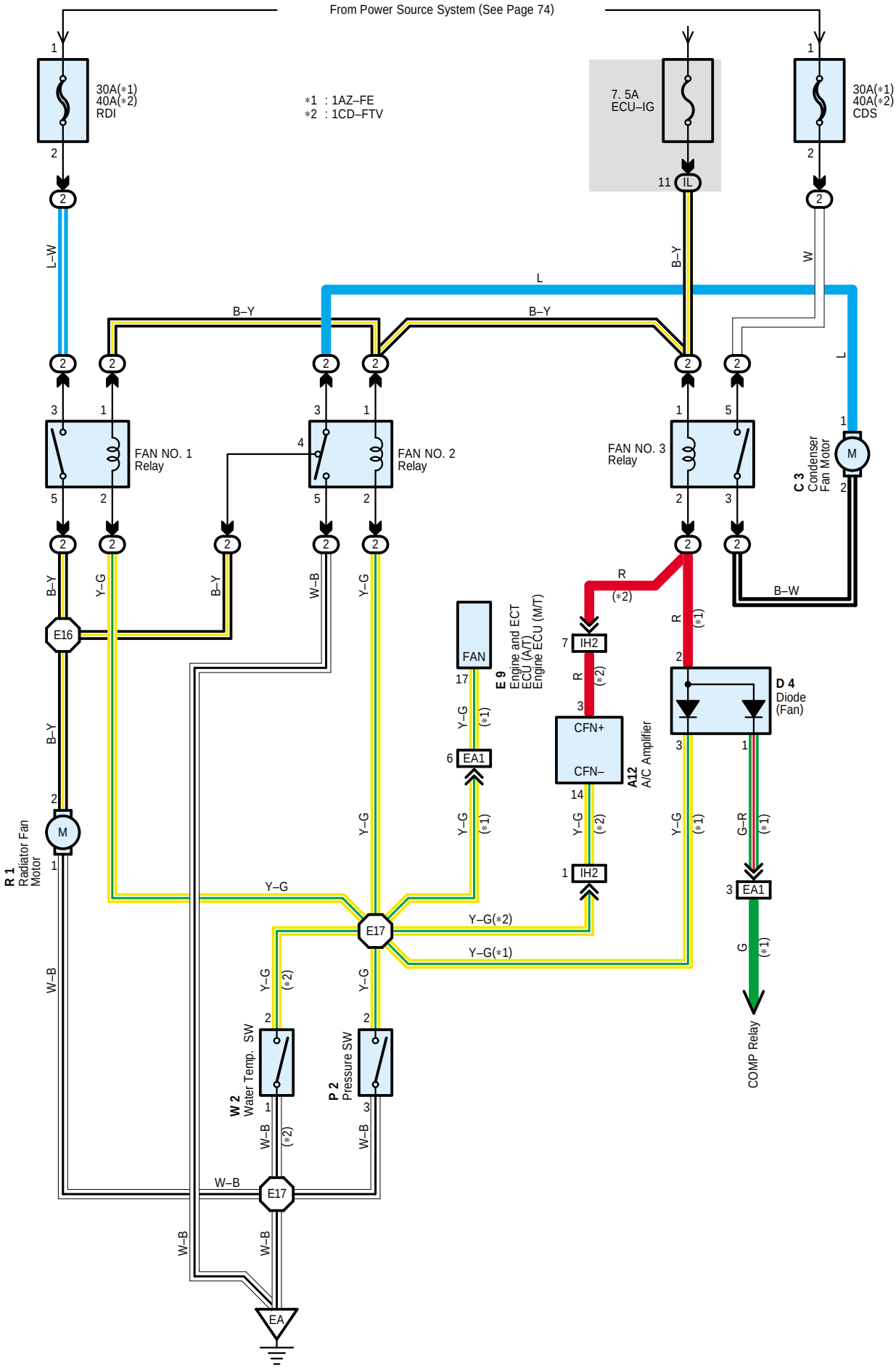
Rear Cooler (RHD)



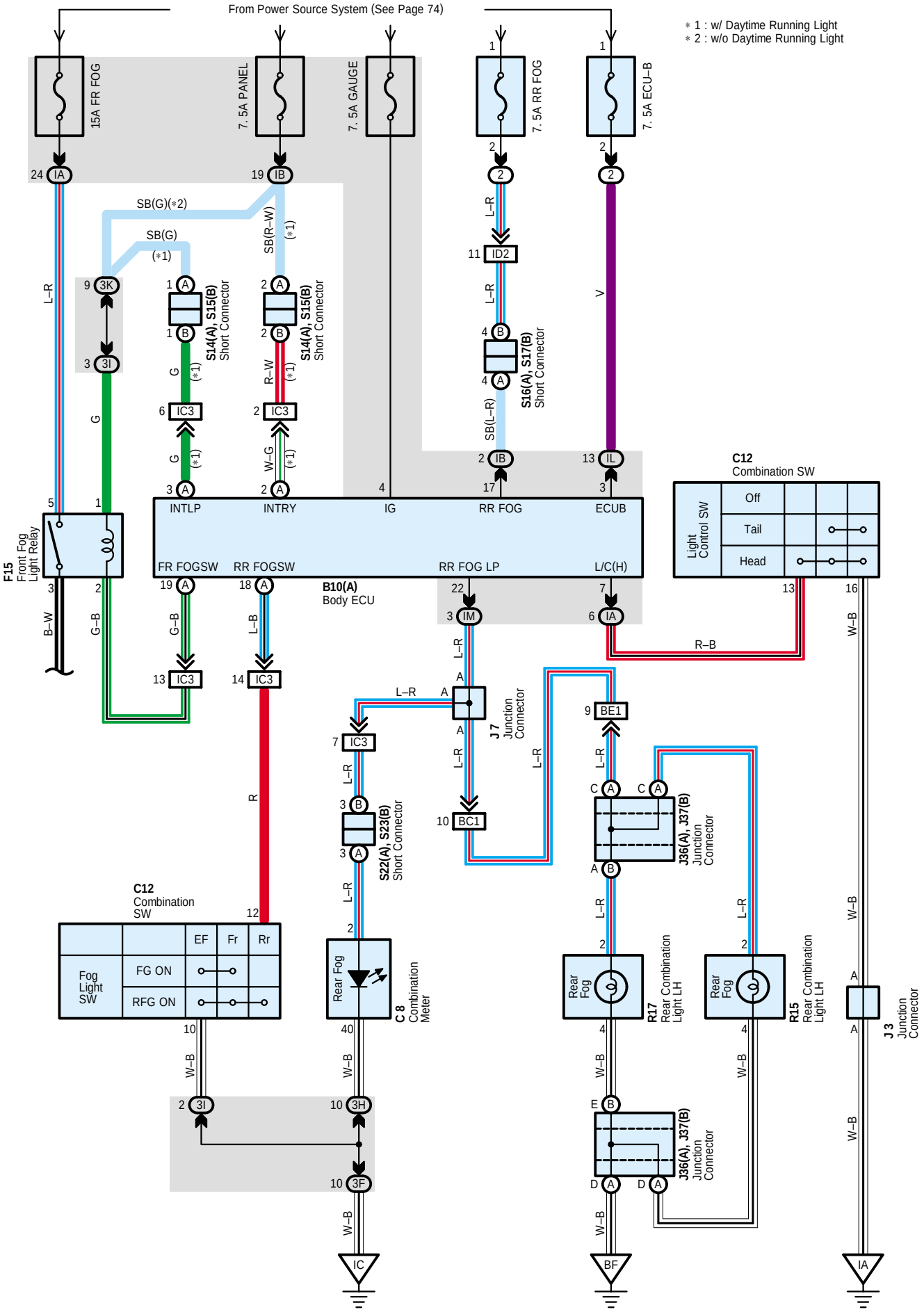
Radiator Fan and Condenser Fan (LHD)



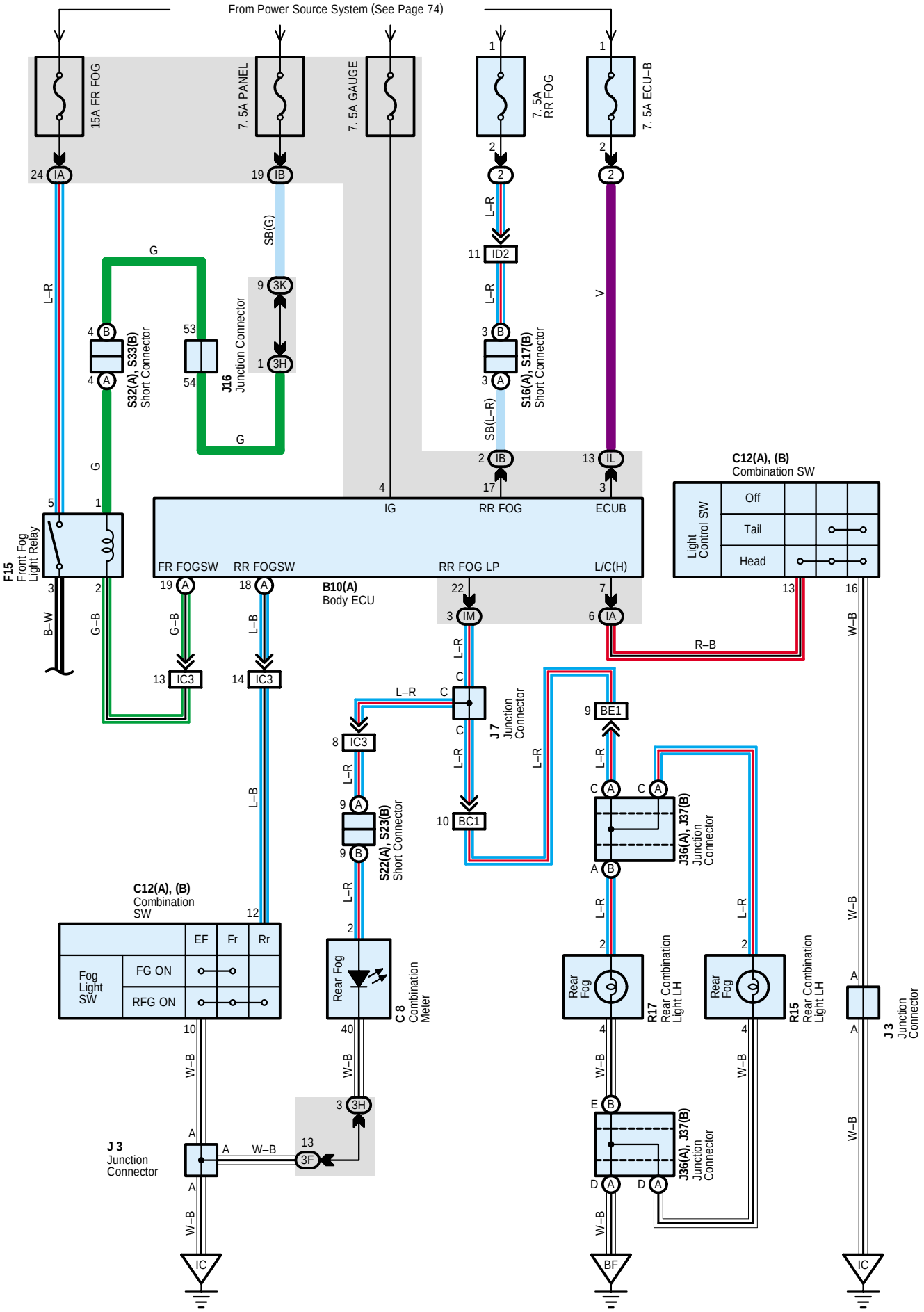
Radiator Fan and Condenser Fan (RHD)



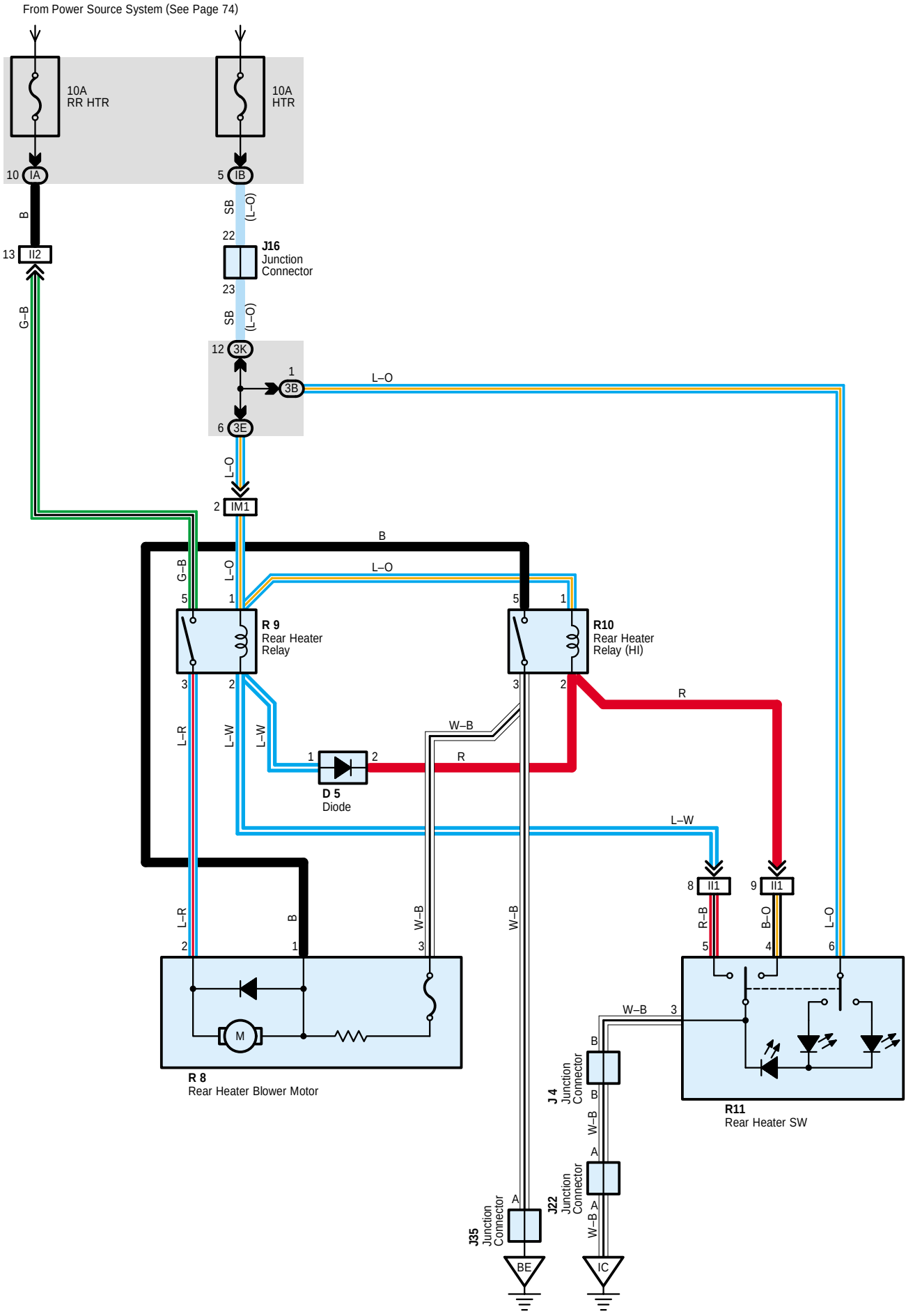
Rear Fog Light (LHD)



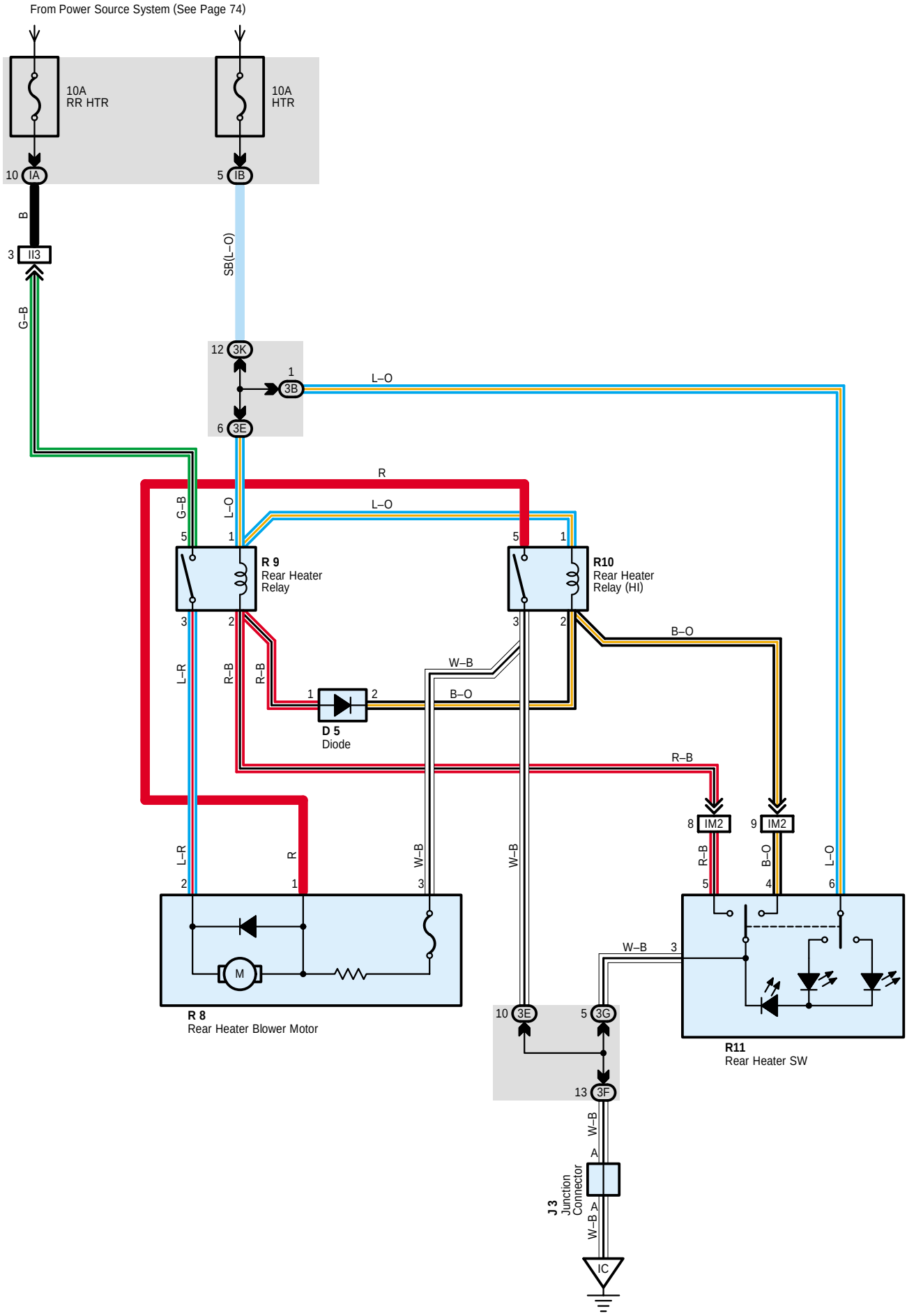
Rear Fog Light (RHD)



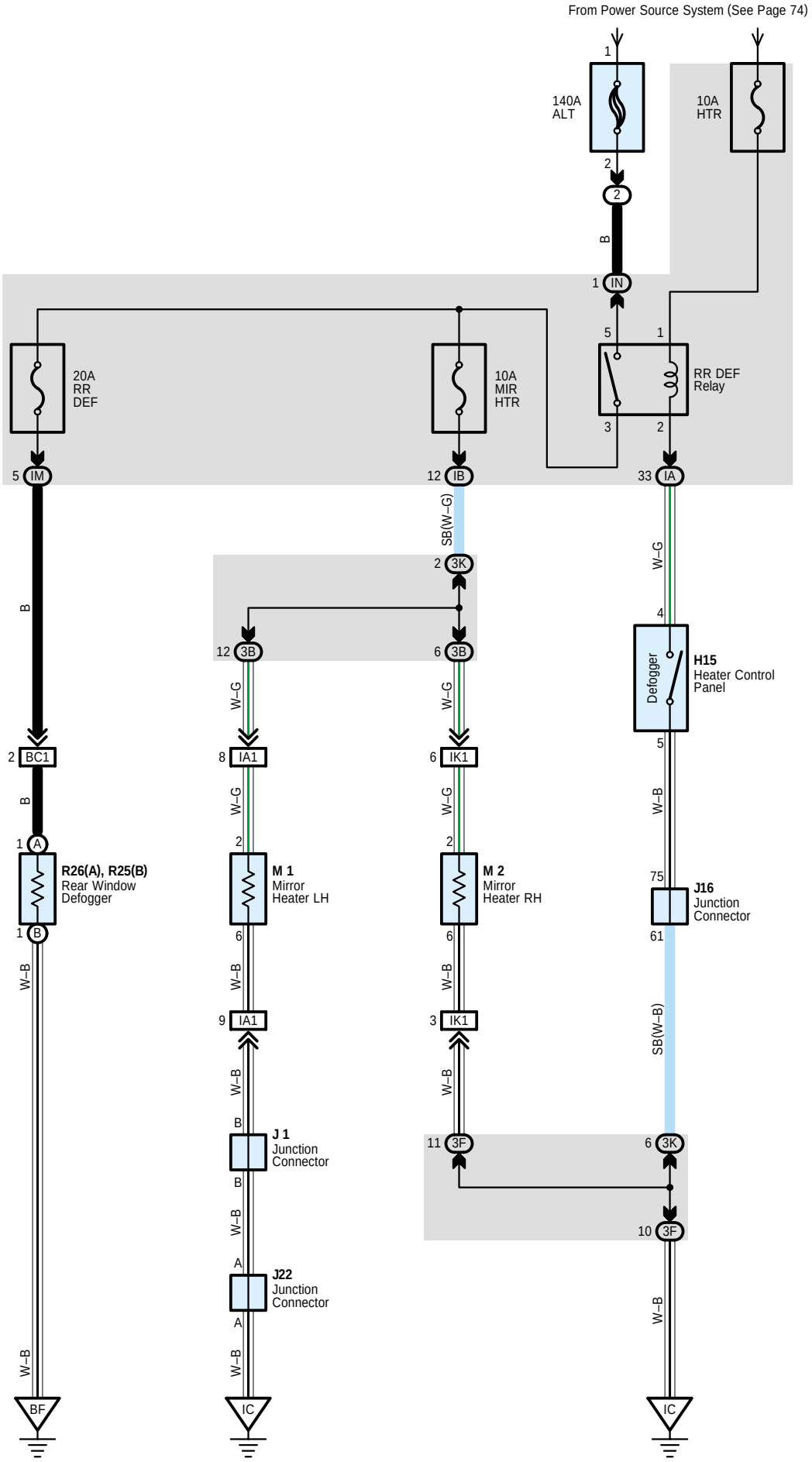
Rear Heater (LHD)



Rear Heater (RHD)

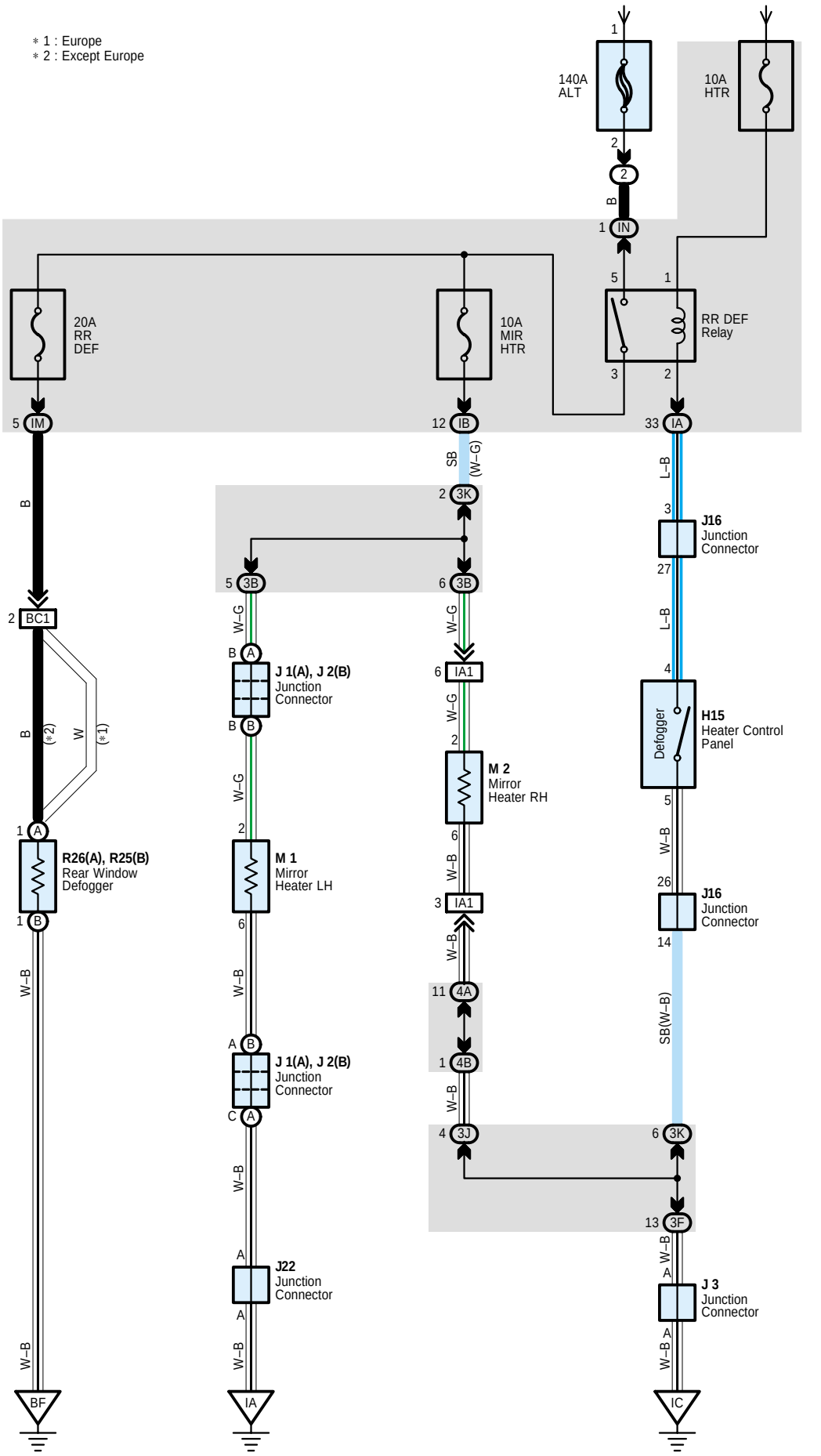


Rear Window Defogger and Mirror Heater (LHD)

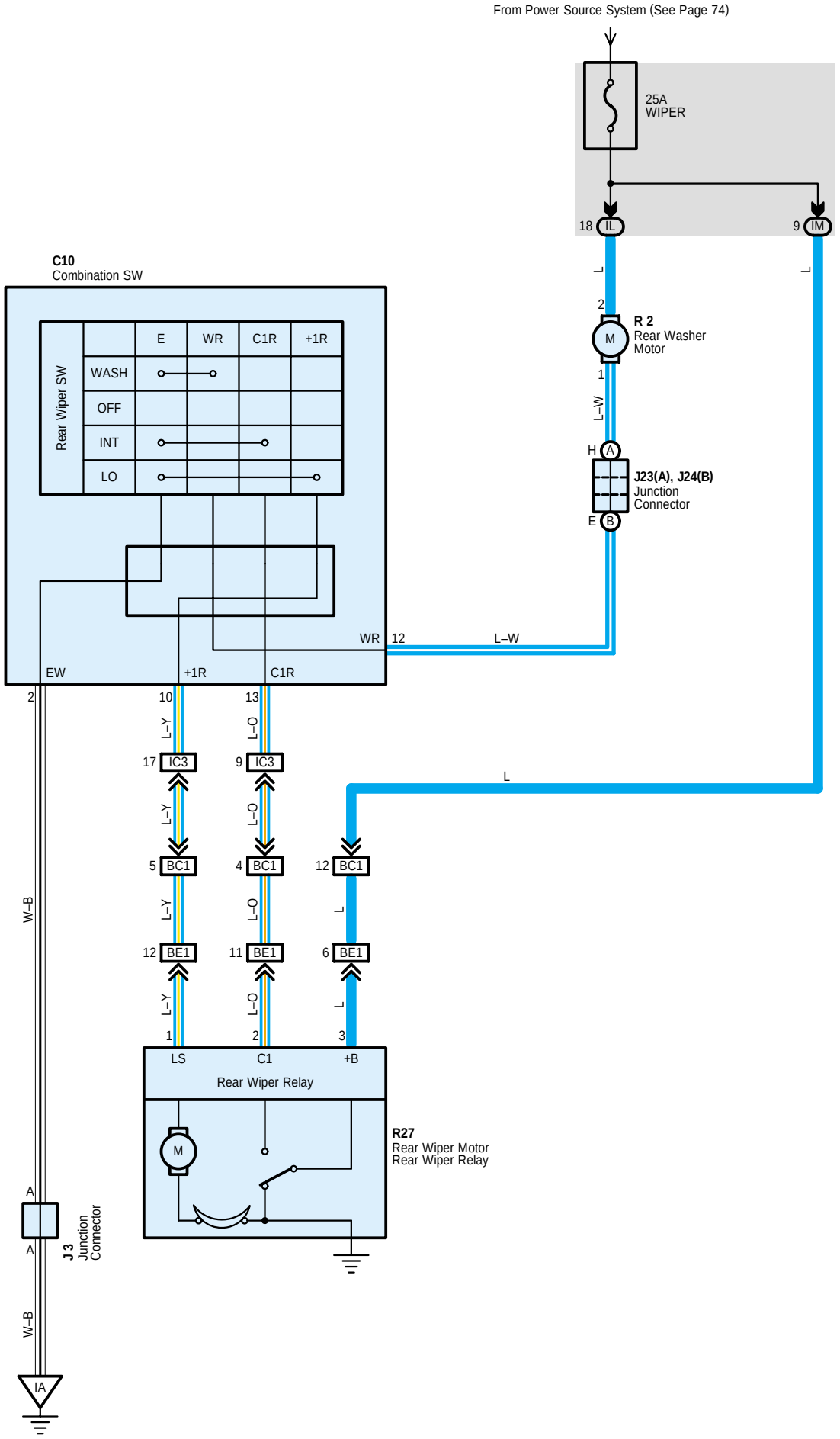


Rear Window Defogger and Mirror Heater (RHD)

From Power Source System (See Page 74)

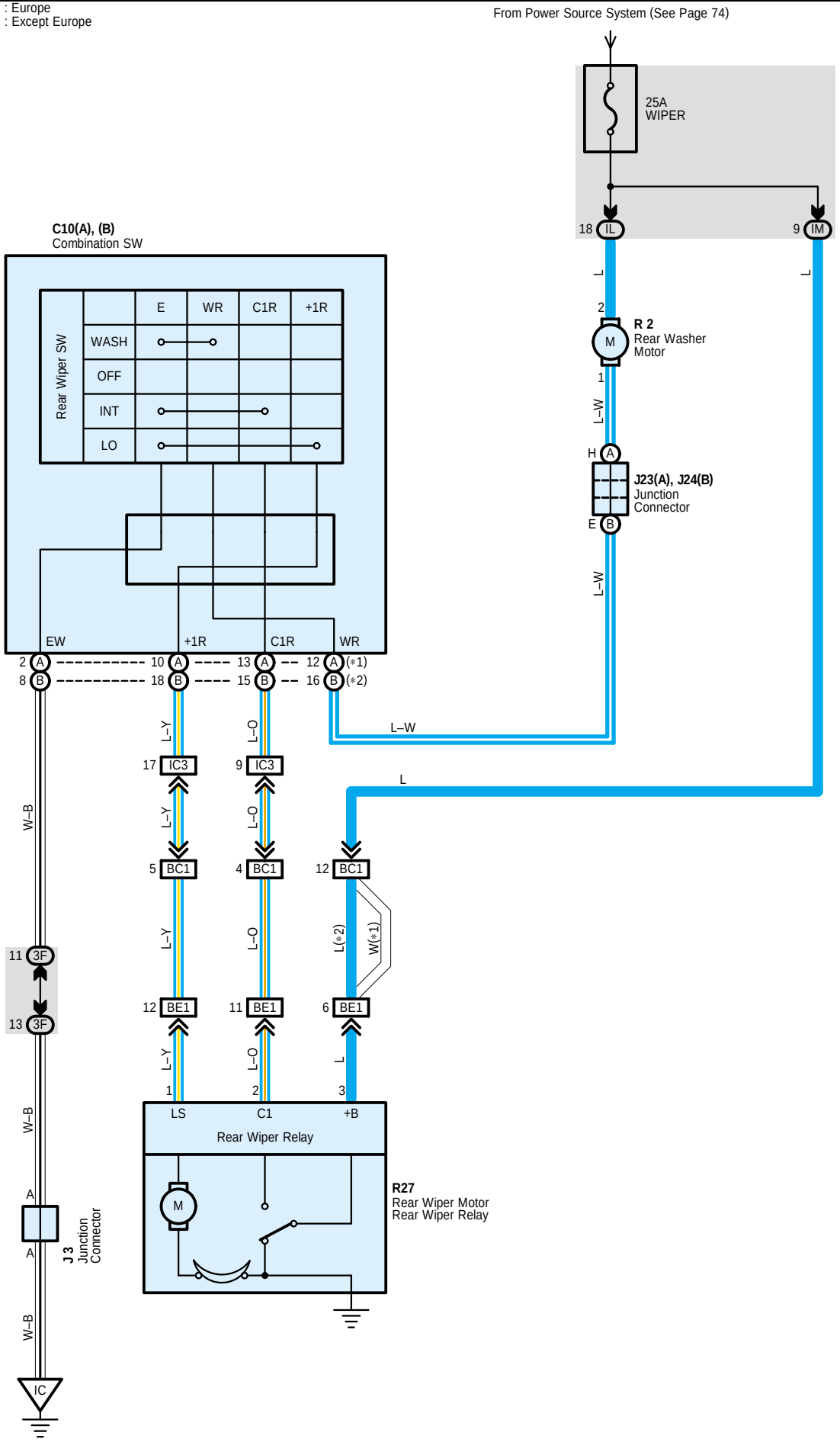


Rear Wiper and Washer (LHD)



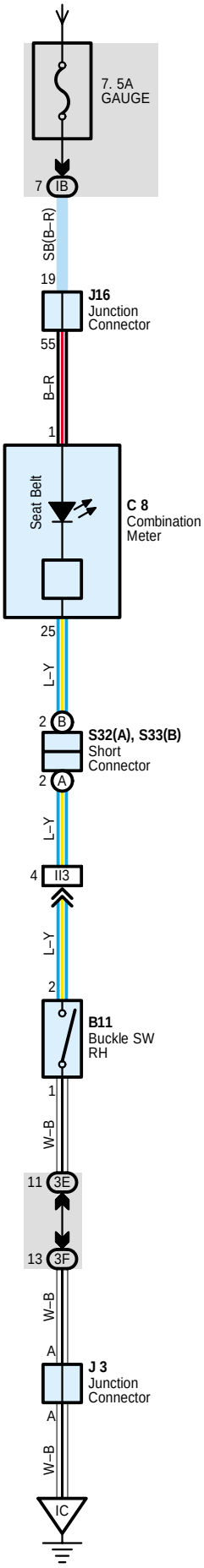
Rear Wiper and Washer (RHD)

∗ 1 : Europe
∗ 2 : Except Europe

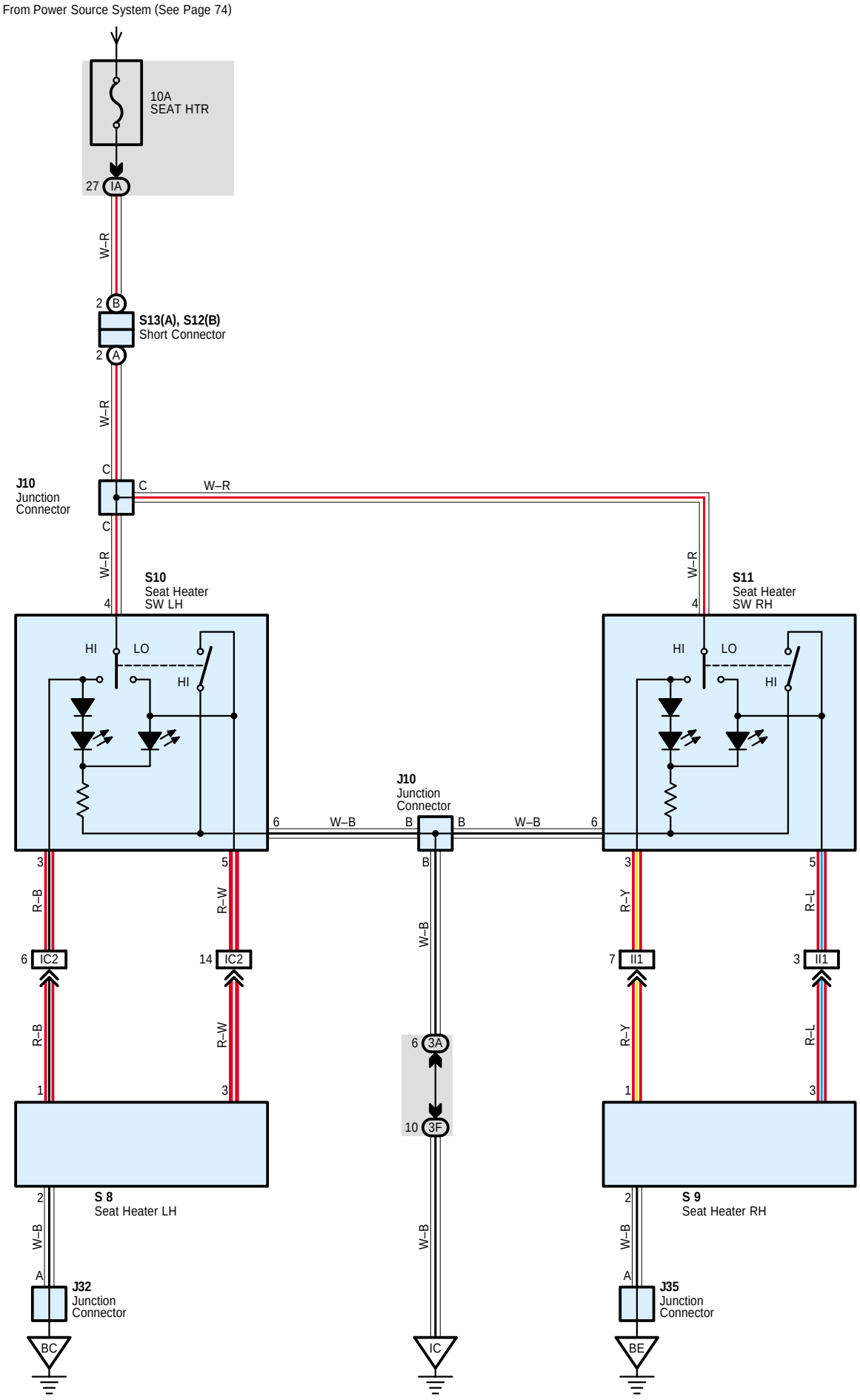


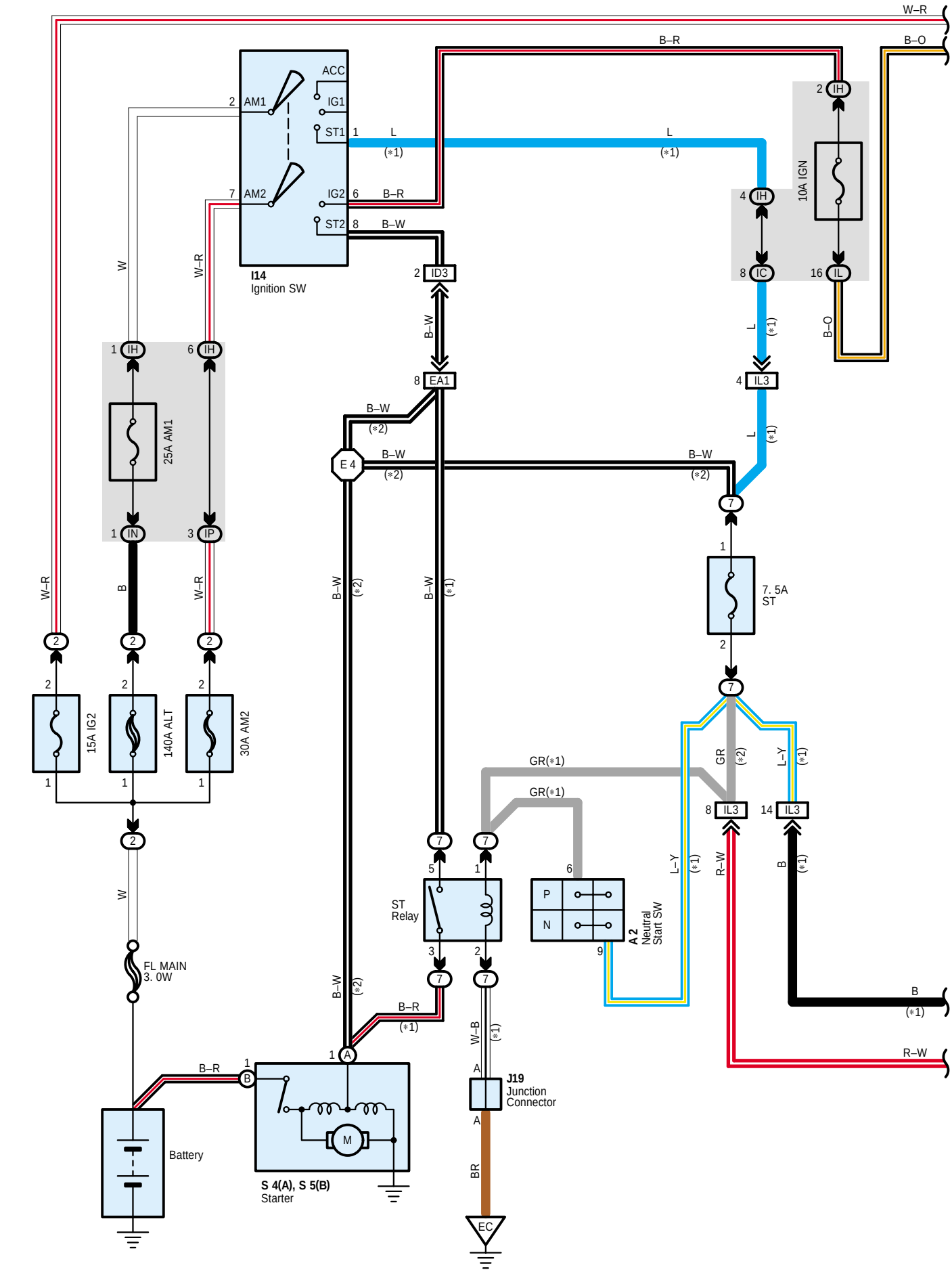
Seat Belt Warning (RHD)

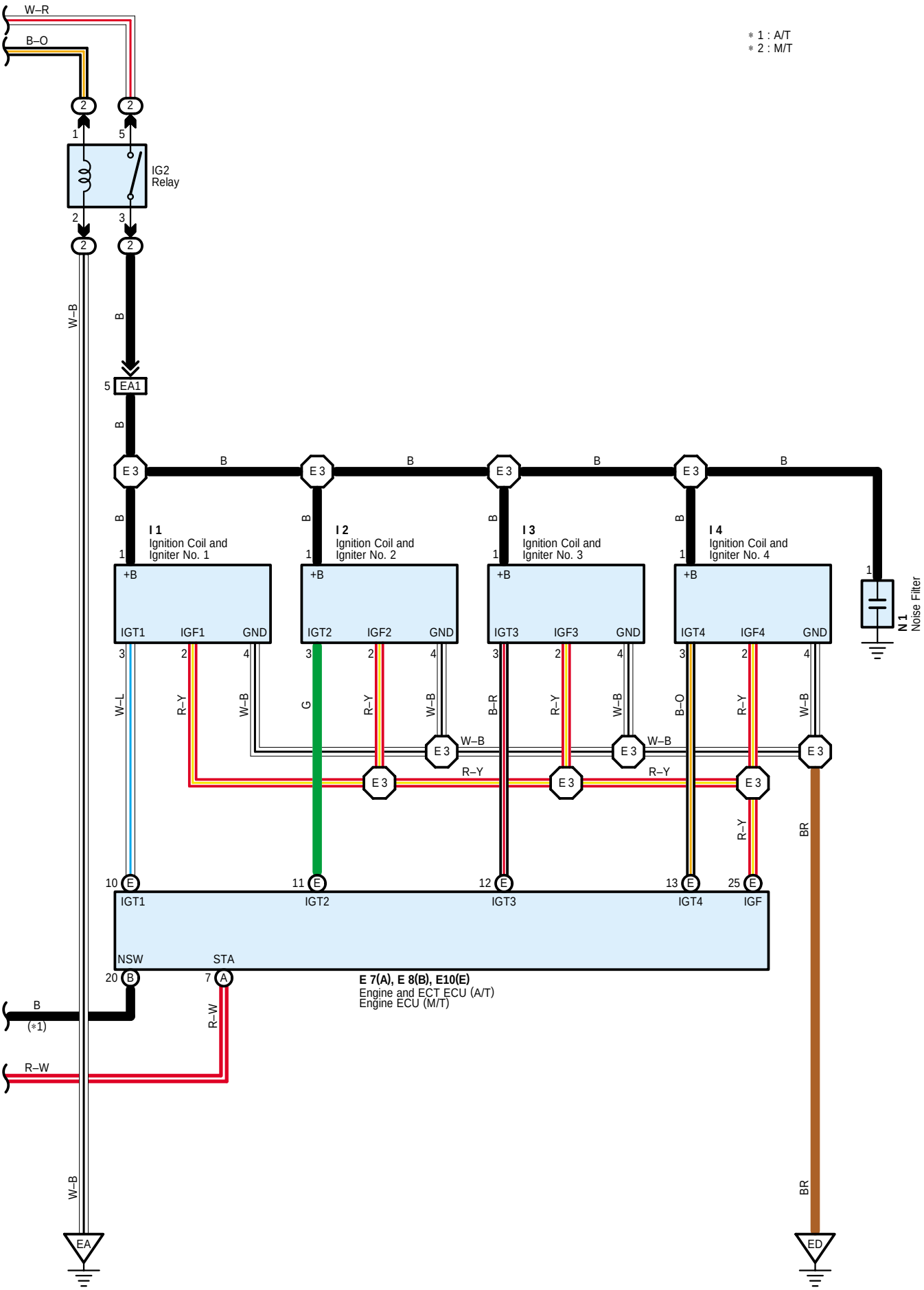
From Power Source System (See Page 74)

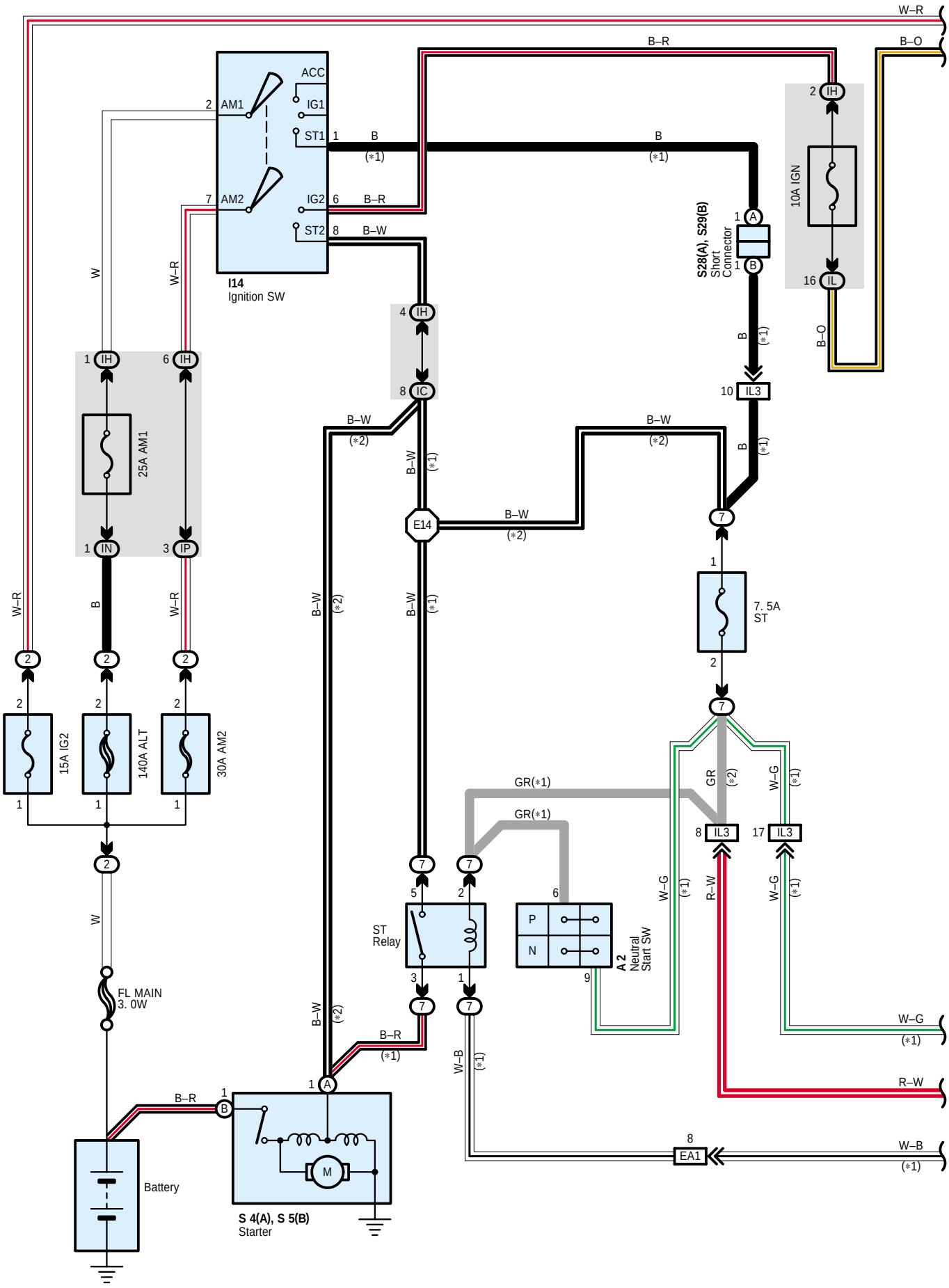


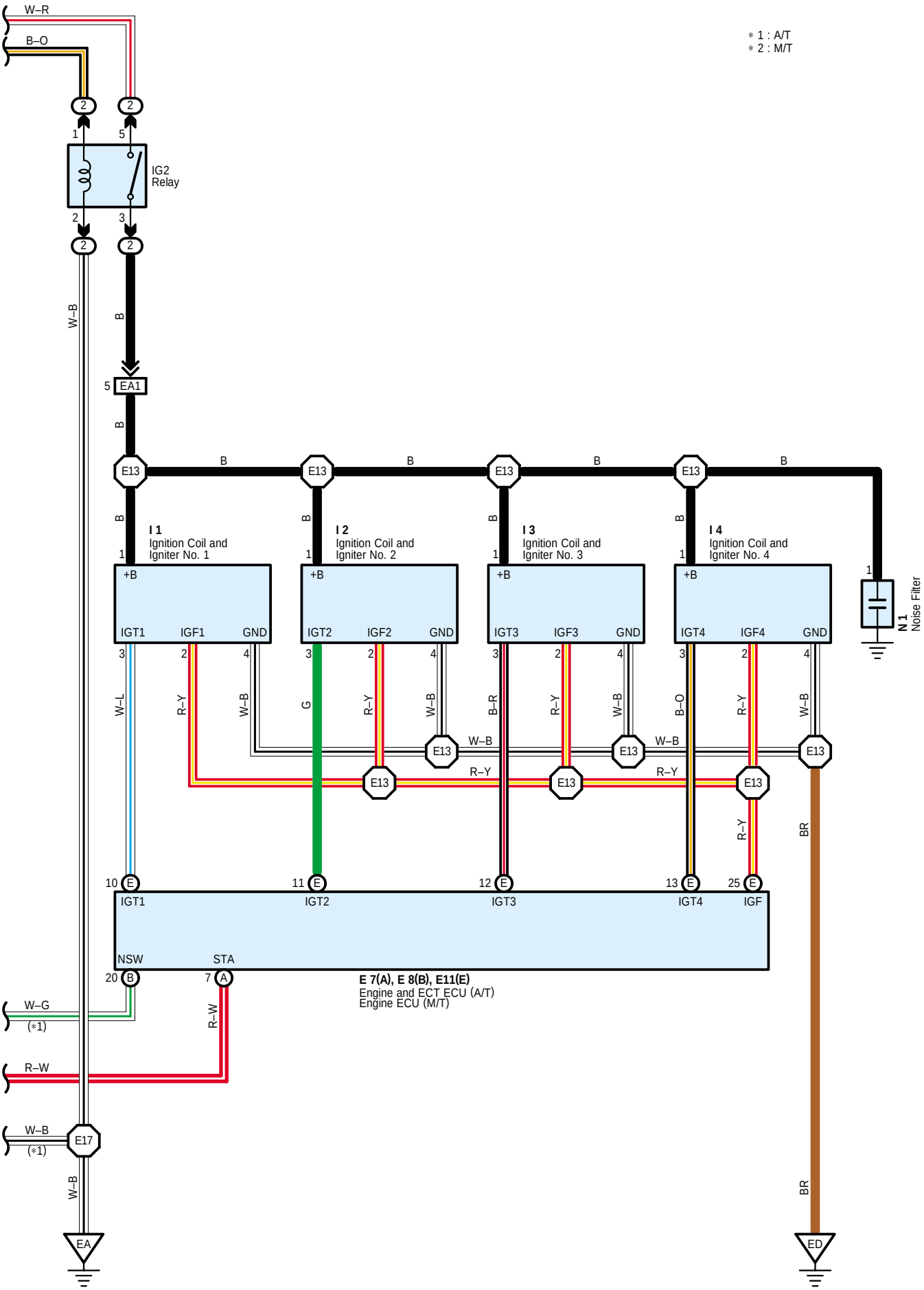
Seat Heater (LHD)




W–R
B–R
B–O
ACC
AM1
IG1
ST1
AM2
IG2
ST2
I14
Ignition SW
L
(*1)
B–R
B–W
W
W–R
2 IH
10A IGN
4 IH
8 IC
16 IL
2 ID3
8 EA1
4 IL3
1 IH
6 IH
25A AM1
1 IN
3 IP
E 4
(*2)
7
1
7. 5A
ST
2
15A IG2
140A ALT
30A AM2
B
GR
L–Y
GR(*1)
8 IL3
14 IL3
ST
Relay
P
N
A 2
Neutral
Start SW
R–W
FL MAIN
3. 0W
J19
Junction
Connector
BR
EC
Battery
S 4(A), S 5(B)
Starter
M

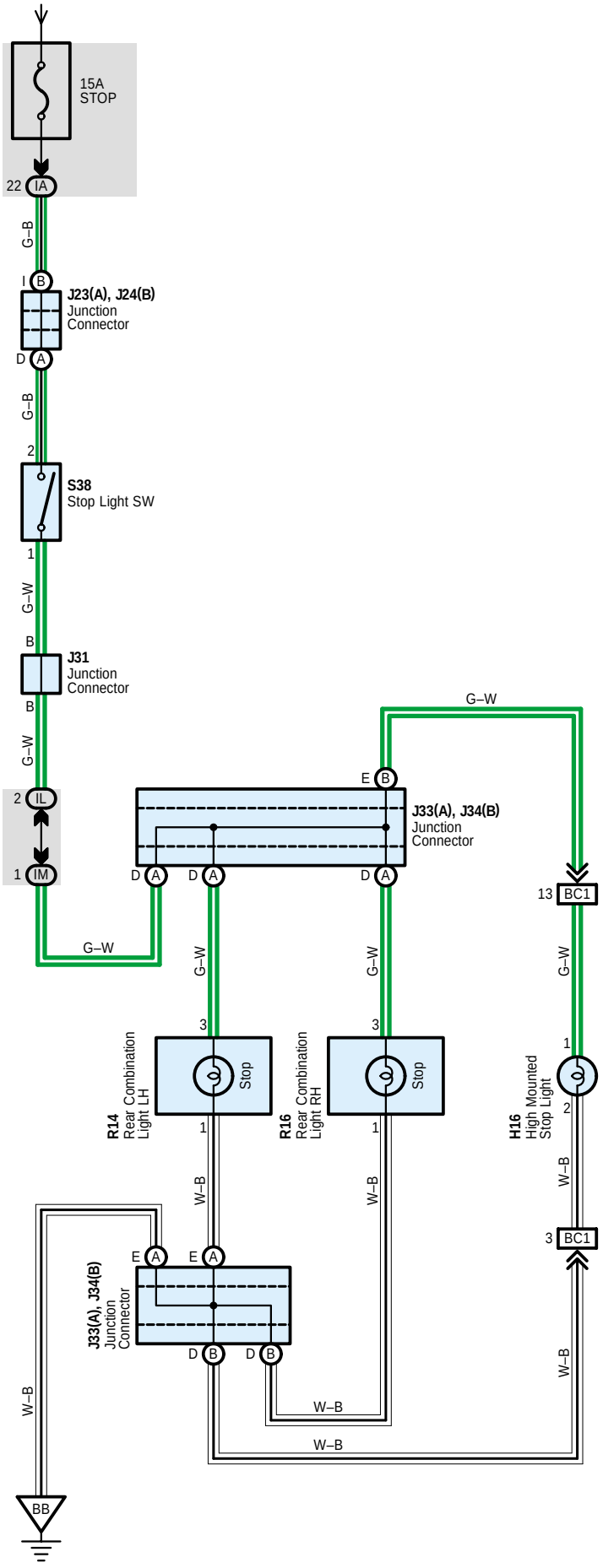

W–R
B–O
＊1 : A/T
＊2 : M/T
IG2
Relay
W–B
B
EA1
E 3
I 1
Ignition Coil and
Igniter No. 1
I 2
Ignition Coil and
Igniter No. 2
I 3
Ignition Coil and
Igniter No. 3
I 4
Ignition Coil and
Igniter No. 4
+B
IGT1
IGF1
GND
IGT2
IGF2
IGT3
IGF3
IGT4
IGF4
N 1
Noise Filter
W–L
R–Y
G
B–R
B–O
BR
E
IGT1
IGT2
IGT3
IGT4
IGF
NSW
STA
E 7(A), E 8(B), E10(E)
Engine and ECT ECU (A/T)
Engine ECU (M/T)
R–W
(＊1)
EA
ED


W–R
B–R
B–O
ACC
AM1
IG1
ST1
AM2
IG2
ST2
I14
Ignition SW
B
(*1)
B–R
B–W
W
W–R
10A IGN
S28(A), S29(B)
Short Connector
IH
IL
IC
IL3
IN
IP
25A AM1
E14
(*2)
7. 5A
ST
15A IG2
140A ALT
30A AM2
GR(*1)
GR
W–G
R–W
ST
Relay
A 2
Neutral
Start SW
P
N
FL MAIN
3. 0W
Battery
M
S 4(A), S 5(B)
Starter
EA1
W–B


W–R
B–O
＊1 : A/T
＊2 : M/T
IG2
Relay
W–B
B
EA1
E13
I 1
Ignition Coil and
Igniter No. 1
I 2
Ignition Coil and
Igniter No. 2
I 3
Ignition Coil and
Igniter No. 3
I 4
Ignition Coil and
Igniter No. 4
+B
IGT1
IGF1
GND
IGT2
IGF2
IGT3
IGF3
IGT4
IGF4
N 1
Noise Filter
W–L
R–Y
G
B–R
B–O
BR
E
IGT1
IGT2
IGT3
IGT4
IGF
NSW
STA
E 7(A), E 8(B), E11(E)
Engine and ECT ECU (A/T)
Engine ECU (M/T)
W–G
(＊1)
R–W
E17
EA
ED

Stop Light (LHD)

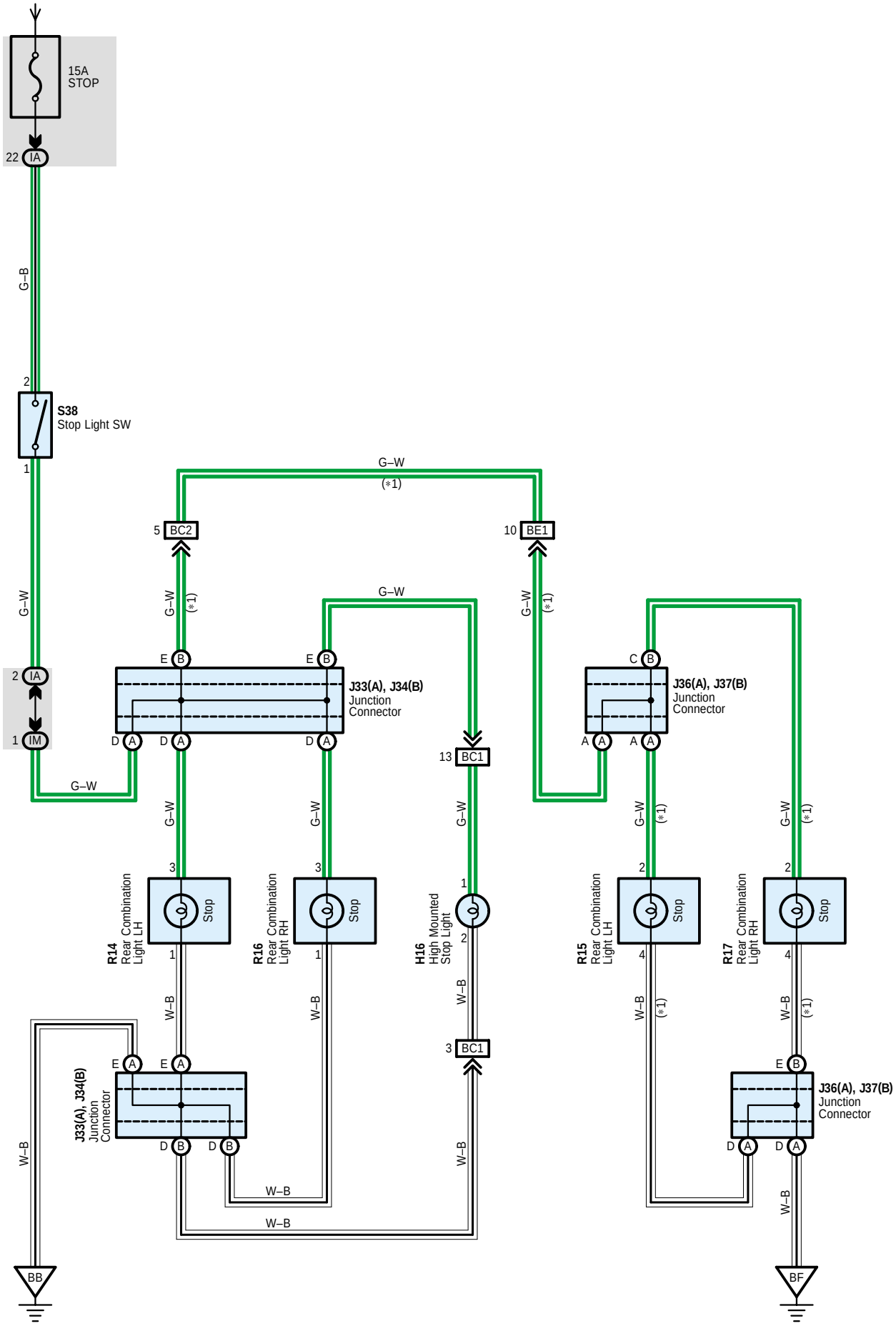
From Power Source System (See Page 74)

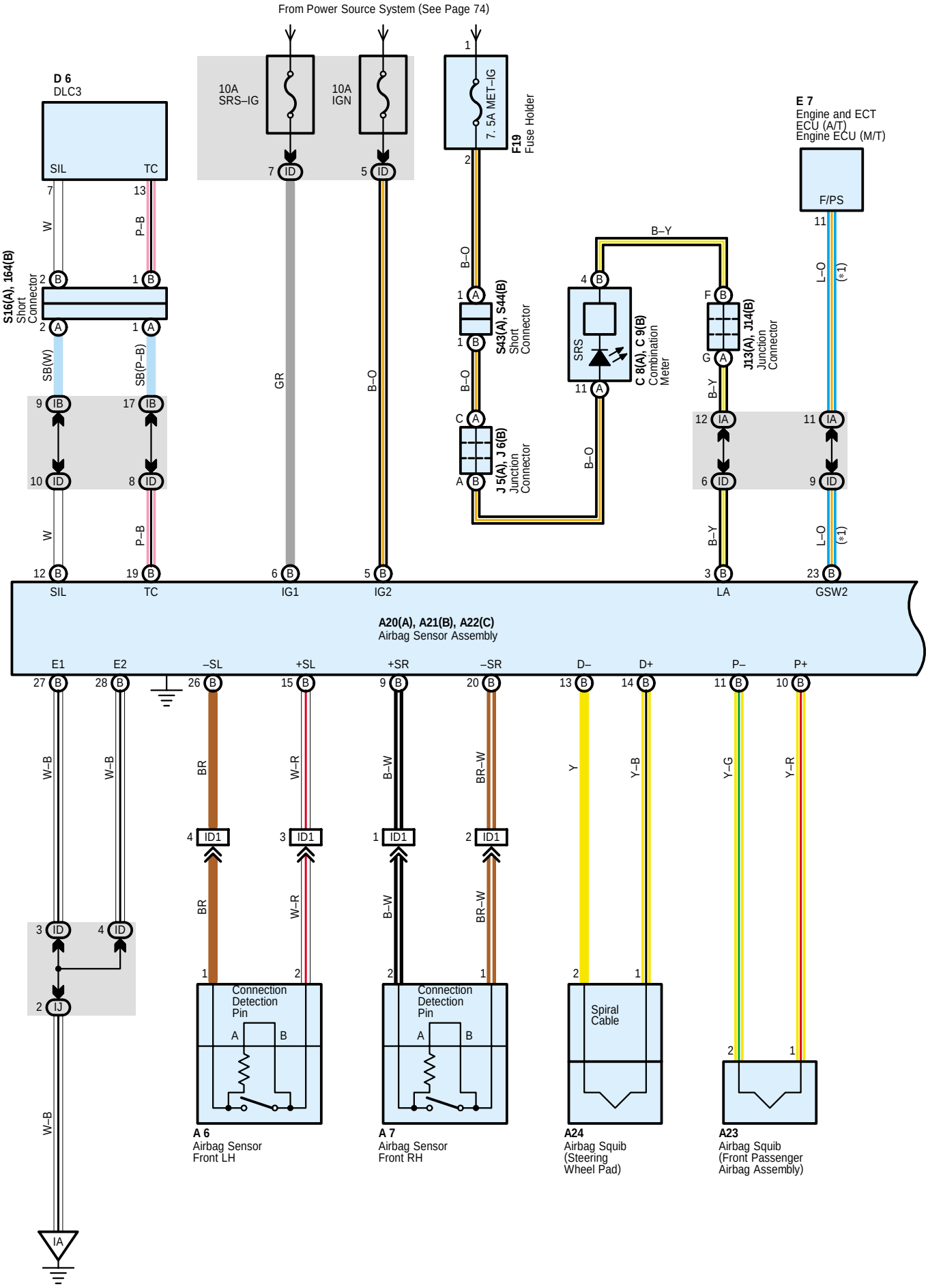


Stop Light (RHD)

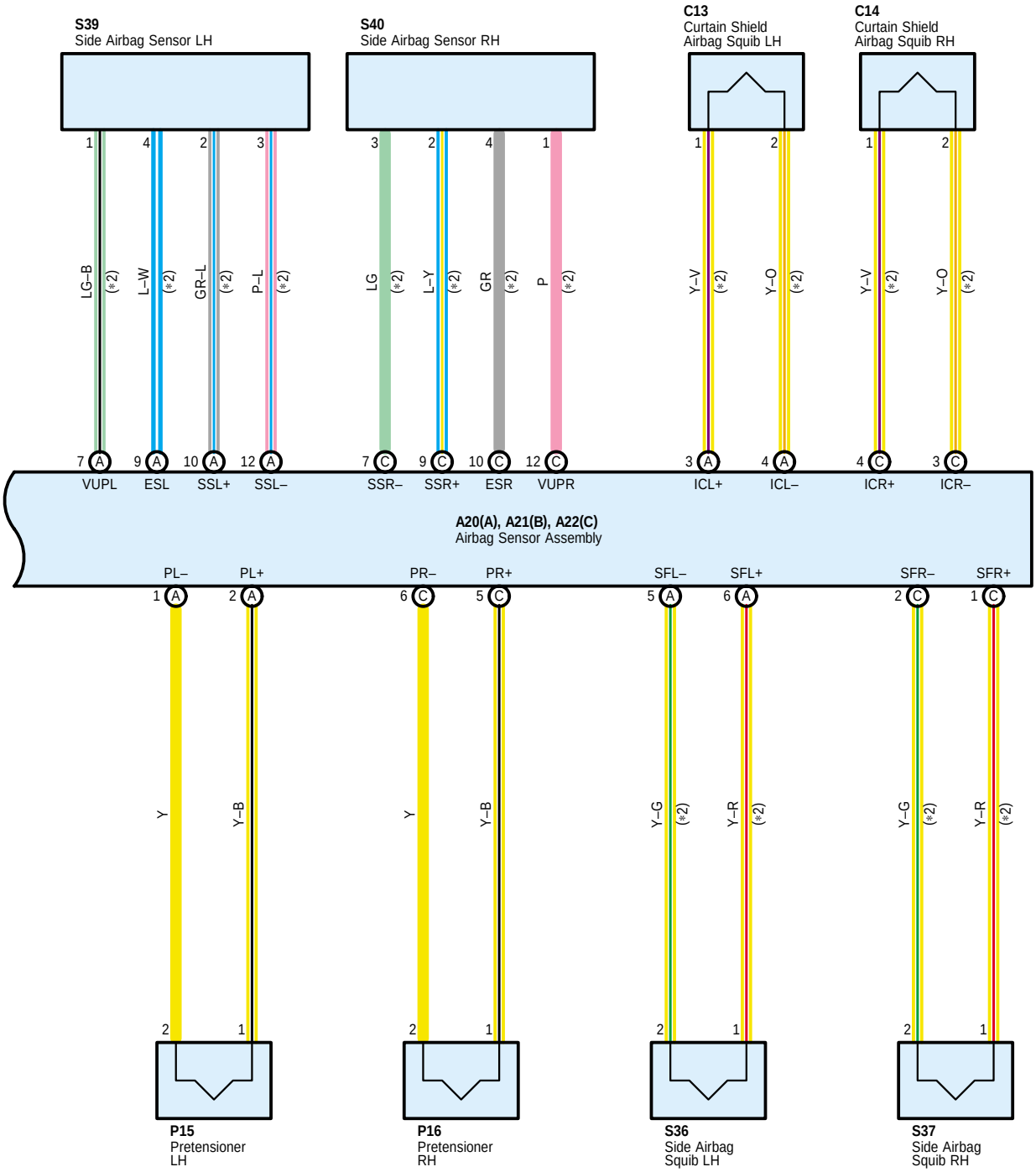
From Power Source System (See Page 74)

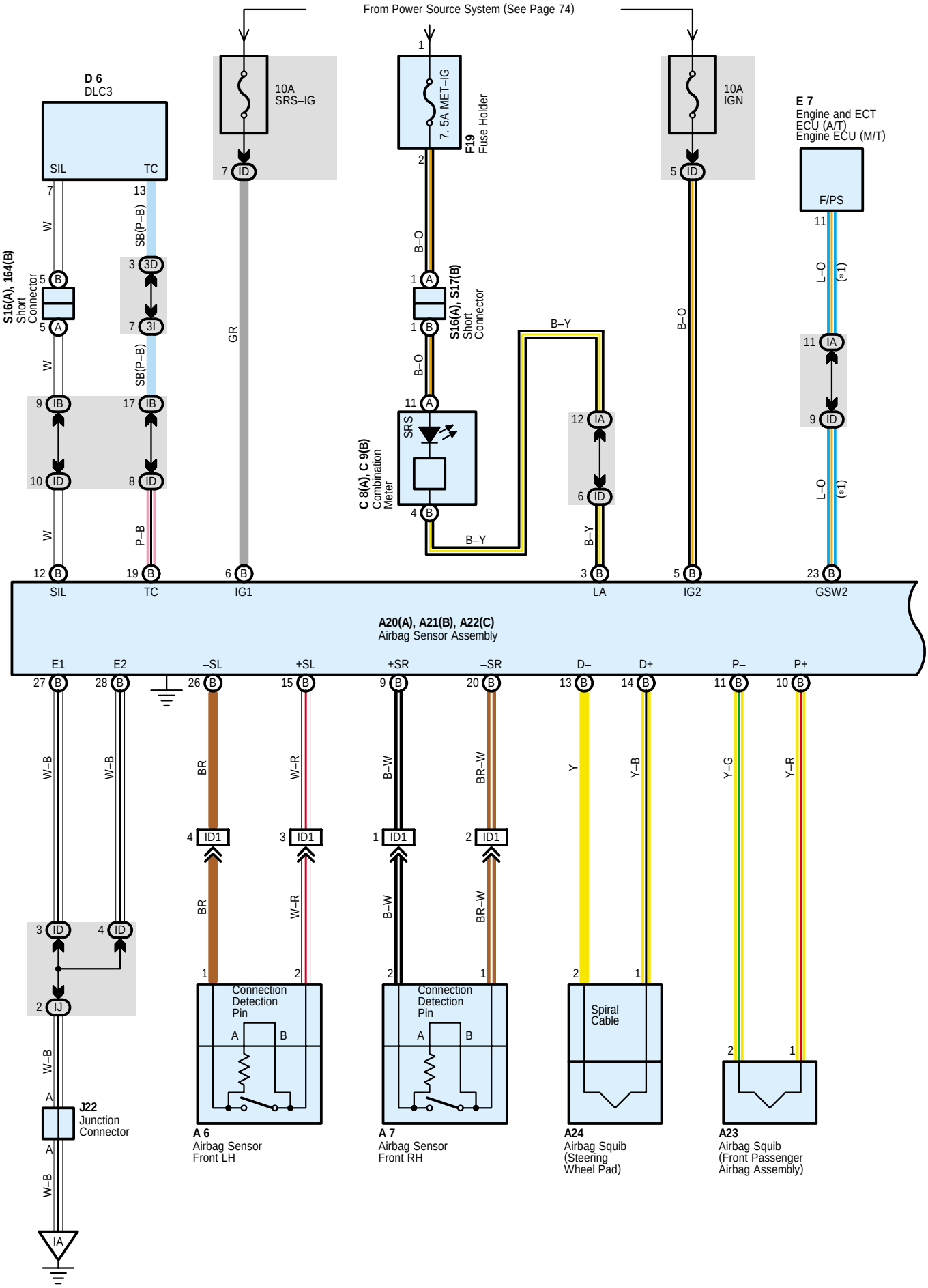
∗ 1 : General



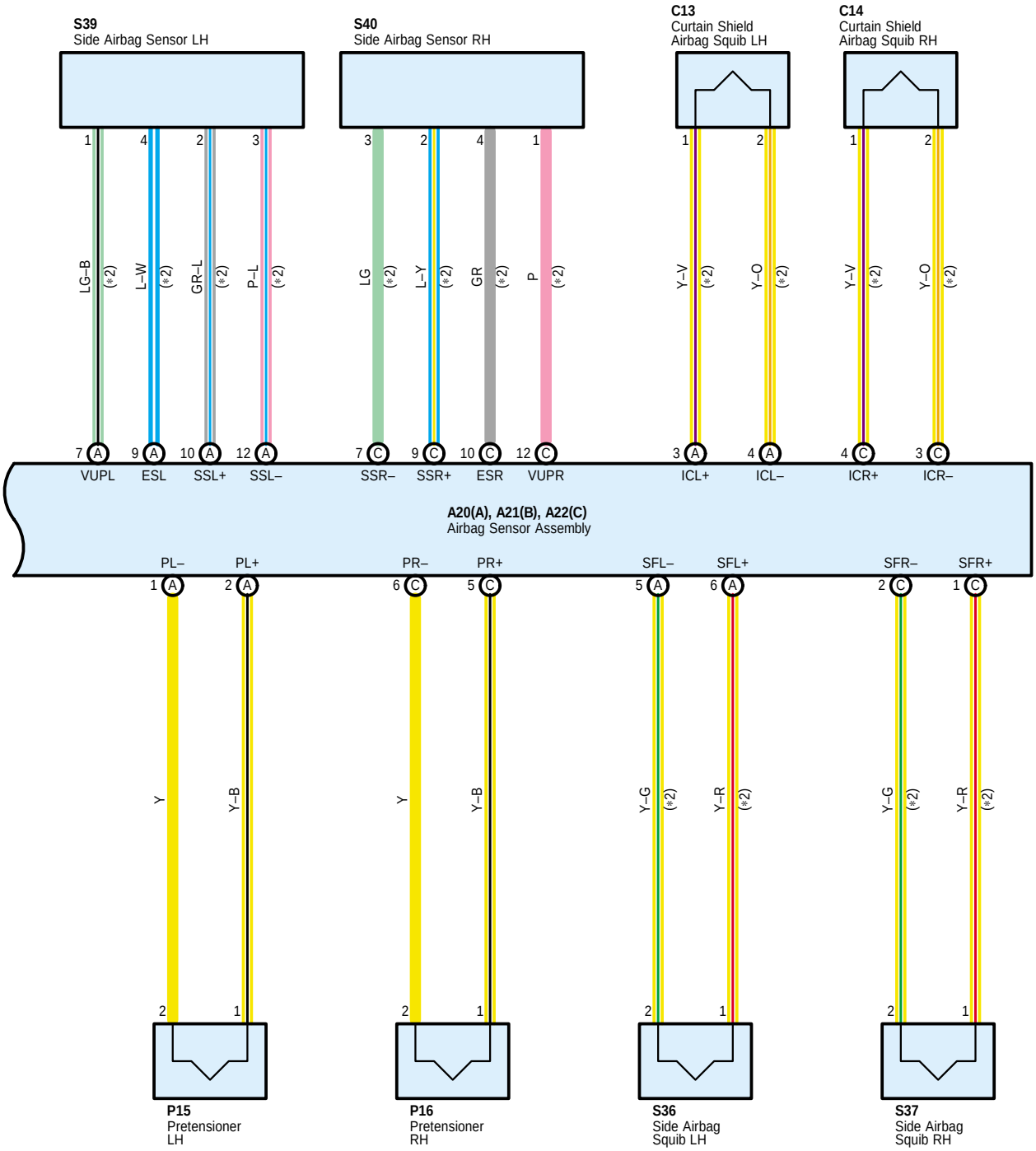

From Power Source System (See Page 74)
D 6
DLC3
SIL
TC
10A
SRS–IG
10A
IGN
F19
Fuse Holder
7. 5A MET–IG
E 7
Engine and ECT
ECU (A/T)
Engine ECU (M/T)
F/PS
S16(A), 164(B)
Short
Connector
S43(A), S44(B)
Short
Connector
C 8(A), C 9(B)
Combination
Meter
SRS
J13(A), J14(B)
Junction
Connector
J 5(A), J 6(B)
Junction
Connector
W
P–B
SB(W)
SB(P–B)
B–O
B–Y
GR
L–O
(*1)
SIL
TC
IG1
IG2
LA
GSW2
A20(A), A21(B), A22(C)
Airbag Sensor Assembly
E1
E2
–SL
+SL
+SR
–SR
D–
D+
P–
P+
W–B
BR
W–R
B–W
BR–W
Y
Y–B
Y–G
Y–R
ID1
IJ
IA
Connection
Detection
Pin
Spiral
Cable
A 6
Airbag Sensor
Front LH
A 7
Airbag Sensor
Front RH
A24
Airbag Squib
(Steering
Wheel Pad)
A23
Airbag Squib
(Front Passenger
Airbag Assembly)

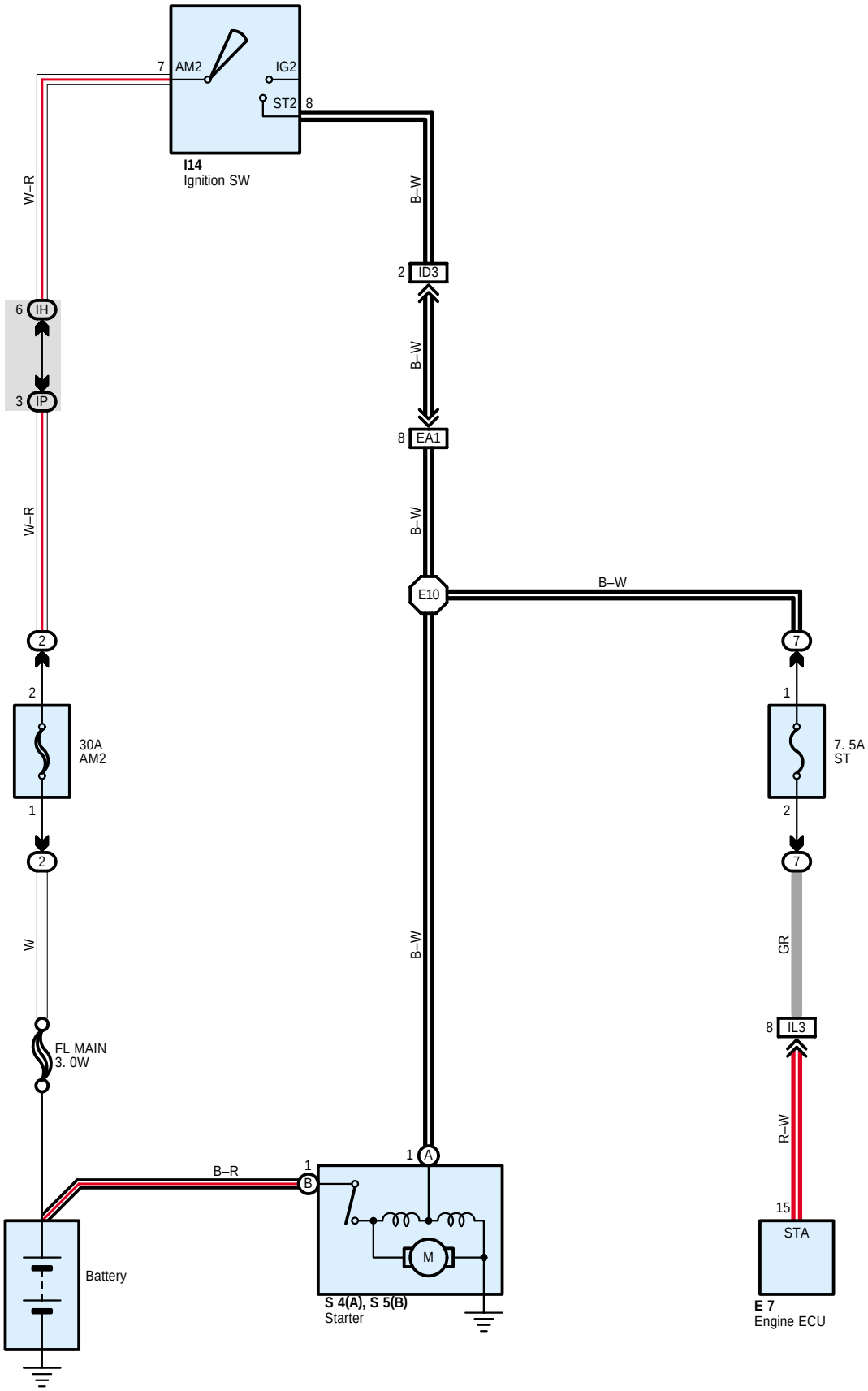
∗ 1 : 1AZ–FE
∗ 2 : w/ Curtain Shield Airbag

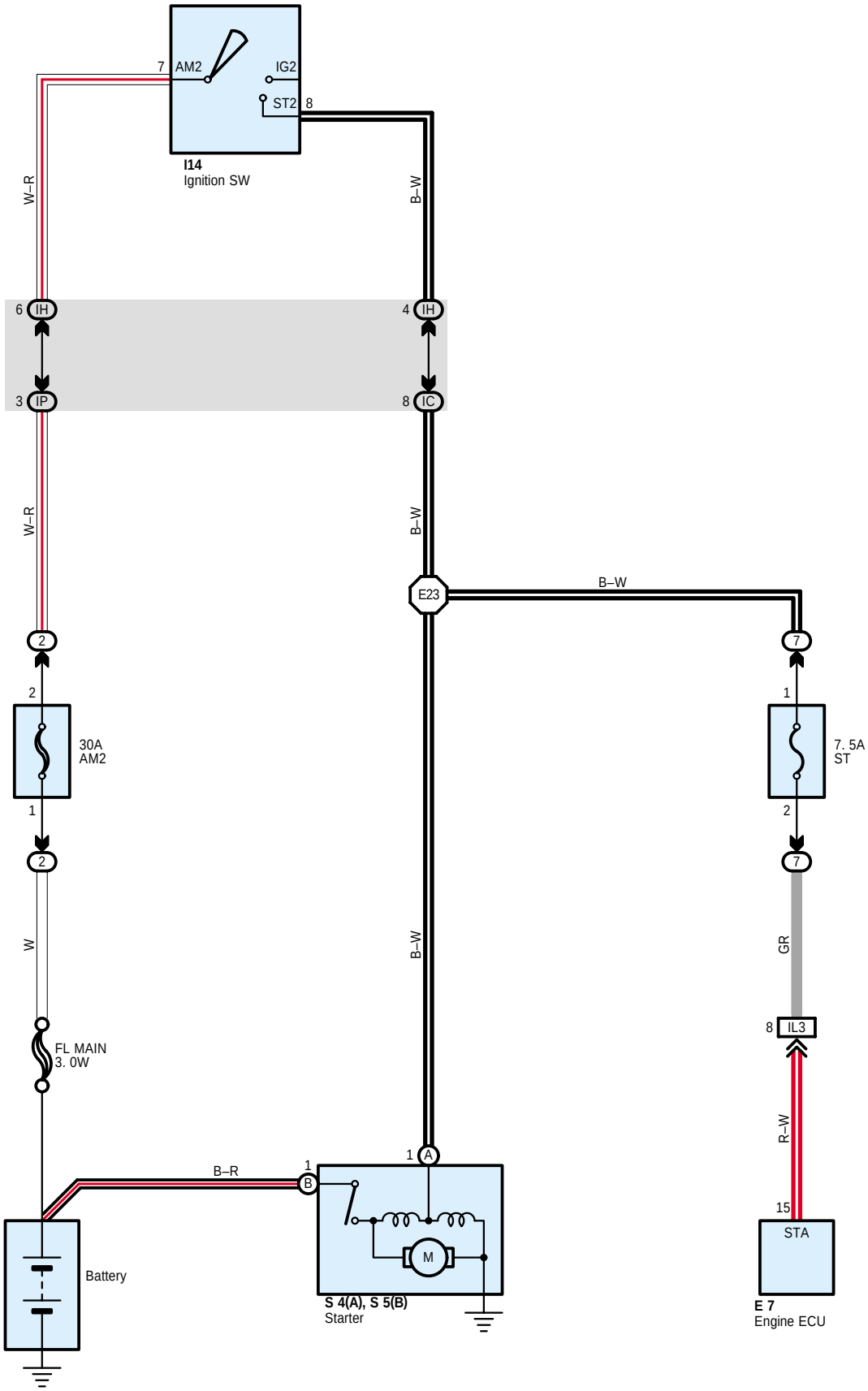



From Power Source System (See Page 74)
D 6
DLC3
SIL
TC
10A
SRS–IG
7. 5A MET–IG
F19
Fuse Holder
10A
IGN
E 7
Engine and ECT
ECU (A/T)
Engine ECU (M/T)
F/PS
S16(A), 164(B)
Short
Connector
S16(A), S17(B)
Short
Connector
C 8(A), C 9(B)
Combination
Meter
SRS
A20(A), A21(B), A22(C)
Airbag Sensor Assembly
E1
E2
–SL
+SL
+SR
–SR
D–
D+
P–
P+
SIL
TC
IG1
LA
IG2
GSW2
J22
Junction
Connector
A 6
Airbag Sensor
Front LH
A 7
Airbag Sensor
Front RH
A24
Airbag Squib
(Steering
Wheel Pad)
A23
Airbag Squib
(Front Passenger
Airbag Assembly)
Connection
Detection
Pin
Spiral
Cable
W
SB(P–B)
GR
B–O
B–Y
W–B
BR
W–R
B–W
BR–W
Y
Y–B
Y–G
Y–R
L–O
P–B
(*1)

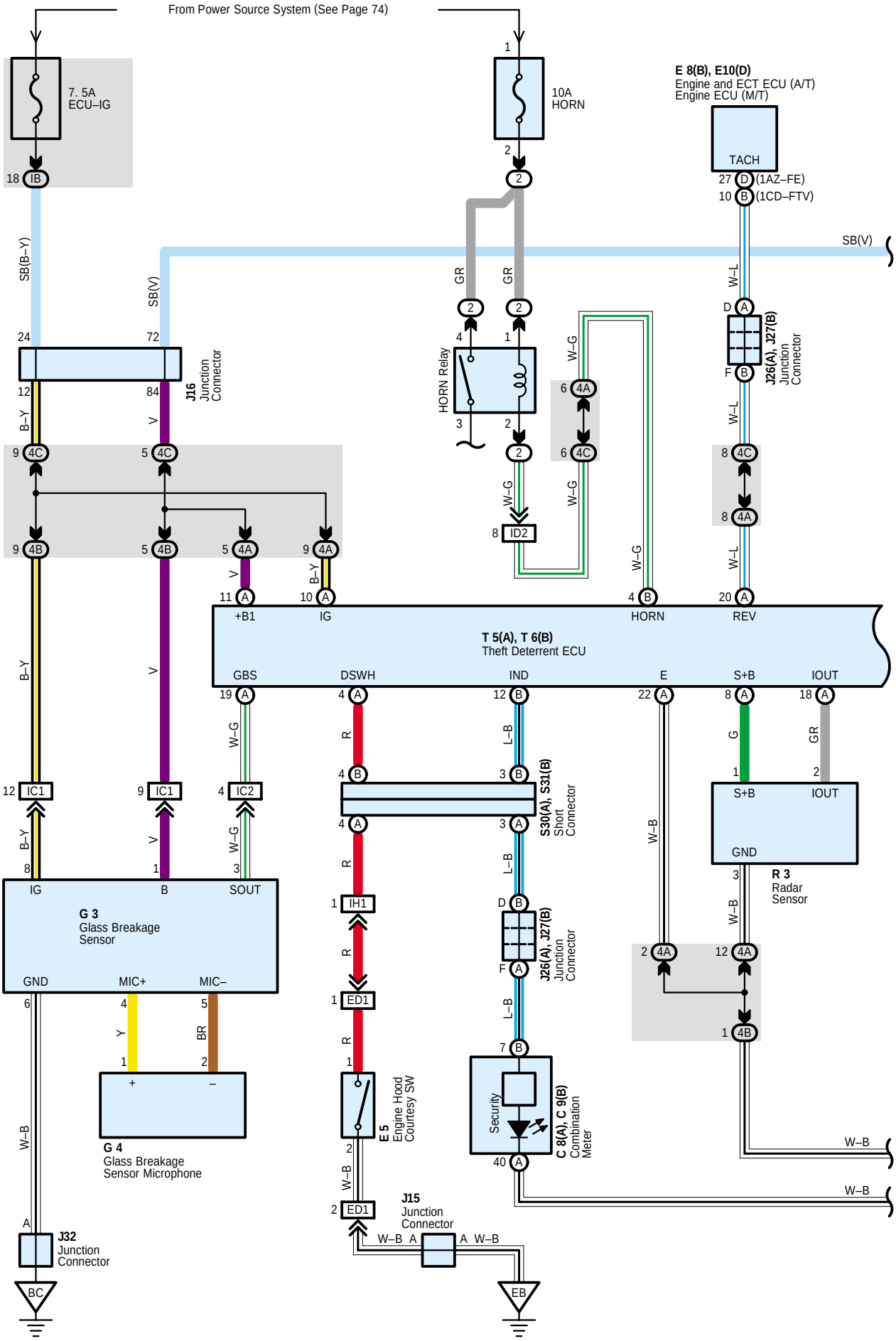
∗ 1 : 1AZ–FE
∗ 2 : w/ Curtain Shield Airbag

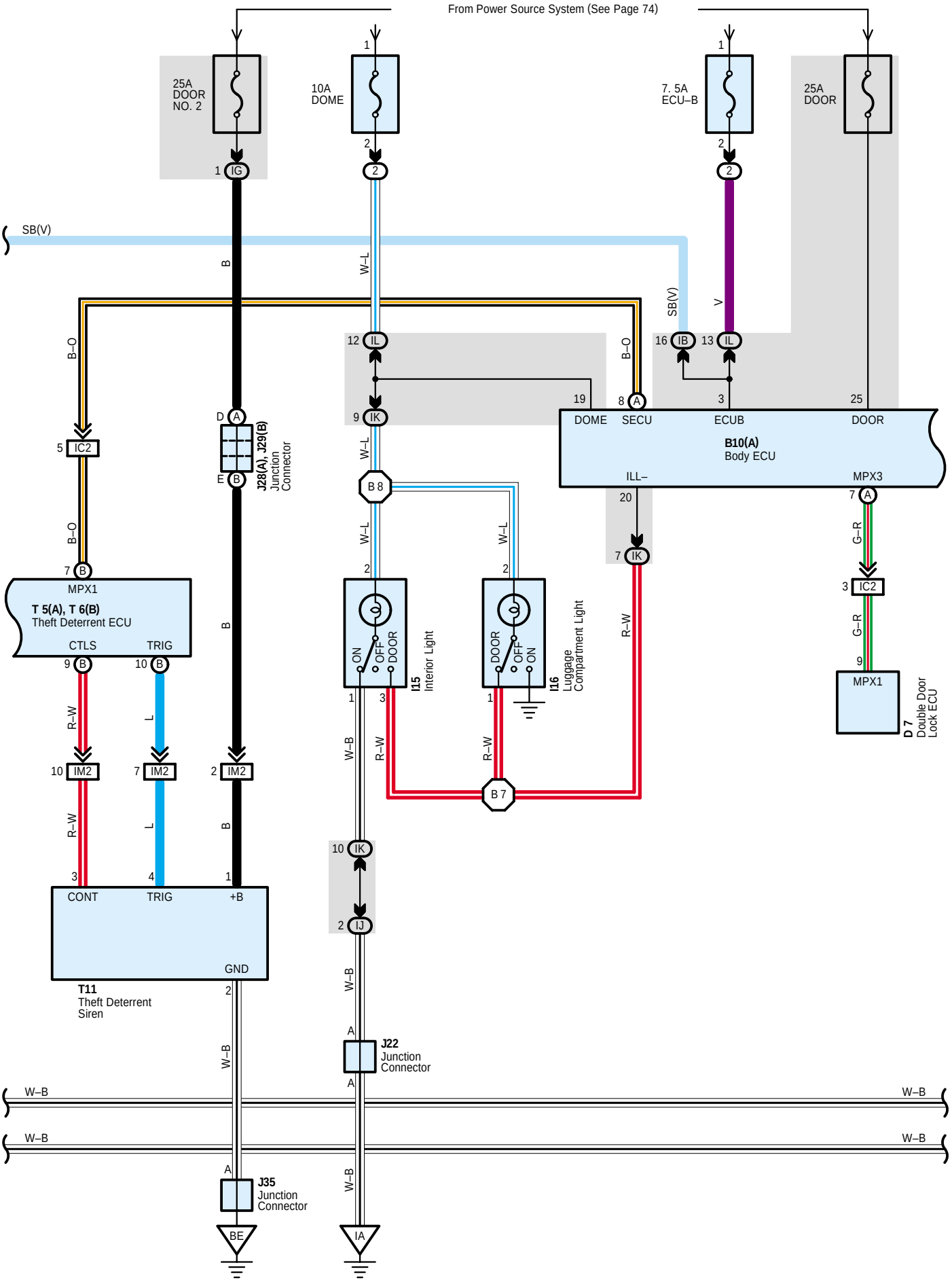



7 AM2
IG2
ST2 8
I14
Ignition SW
W–R
B–W
2 ID3
6 IH
3 IP
B–W
8 EA1
W–R
B–W
E10
B–W
7
2
1
30A
AM2
7. 5A
ST
1
2
2
7
W
GR
FL MAIN
3. 0W
8 IL3
R–W
B–W
1 A
B–R
1 B
15
STA
M
Battery
S 4(A), S 5(B)
Starter
E 7
Engine ECU

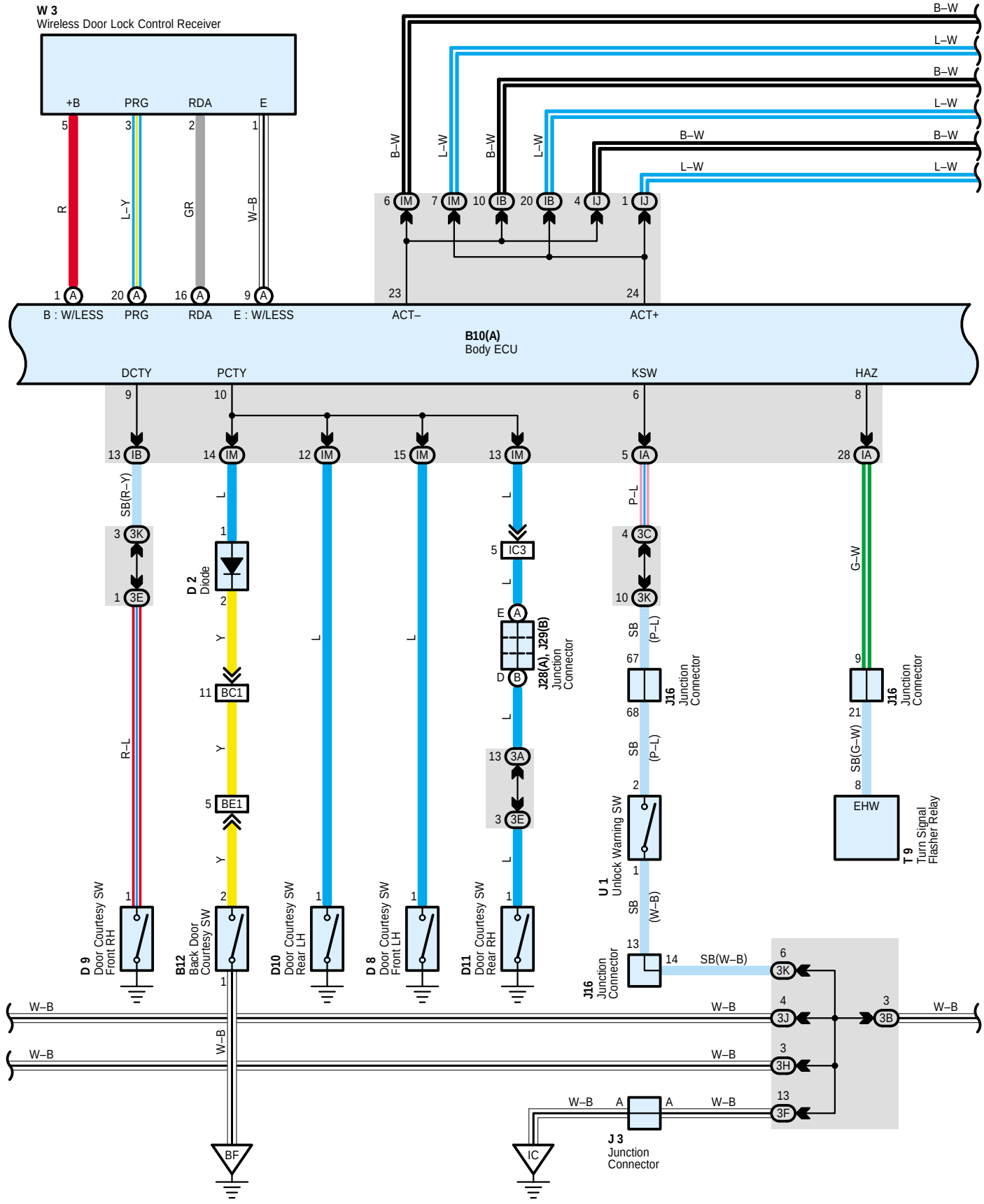

7 AM2
IG2
ST2 8
I14
Ignition SW
W–R
B–W
6 IH
4 IH
3 IP
8 IC
W–R
B–W
E23
B–W
2
7
2
1
30A
AM2
7. 5A
ST
1
2
2
7
W
B–W
GR
FL MAIN
3. 0W
8 IL3
R–W
15
STA
B–R
1
B
1
A
M
Battery
S 4(A), S 5(B)
Starter
E 7
Engine ECU

Theft Deterrent (RHD)

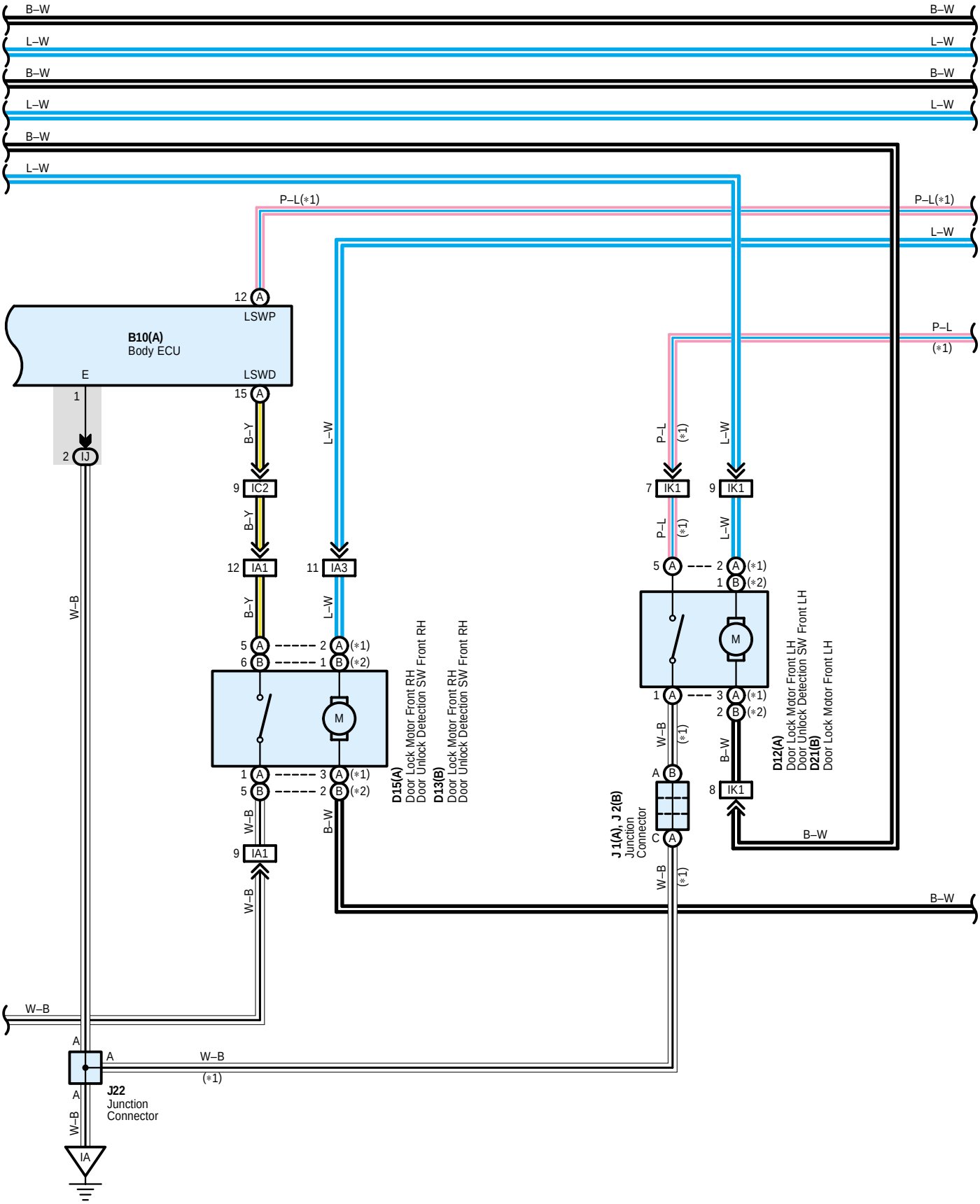



From Power Source System (See Page 74)
25A DOOR NO. 2
10A DOME
7. 5A ECU–B
25A DOOR
SB(V)
B
W–L
V
B–O
B10(A) Body ECU
DOME
SECU
ECUB
DOOR
ILL–
MPX3
MPX1
T 5(A), T 6(B) Theft Deterrent ECU
CTLS
TRIG
J28(A), J29(B) Junction Connector
I15 Interior Light
I16 Luggage Compartment Light
D 7 Double Door Lock ECU
R–W
L
G–R
T11 Theft Deterrent Siren
CONT
+B
GND
J22 Junction Connector
J35 Junction Connector
BE
IA
W–B

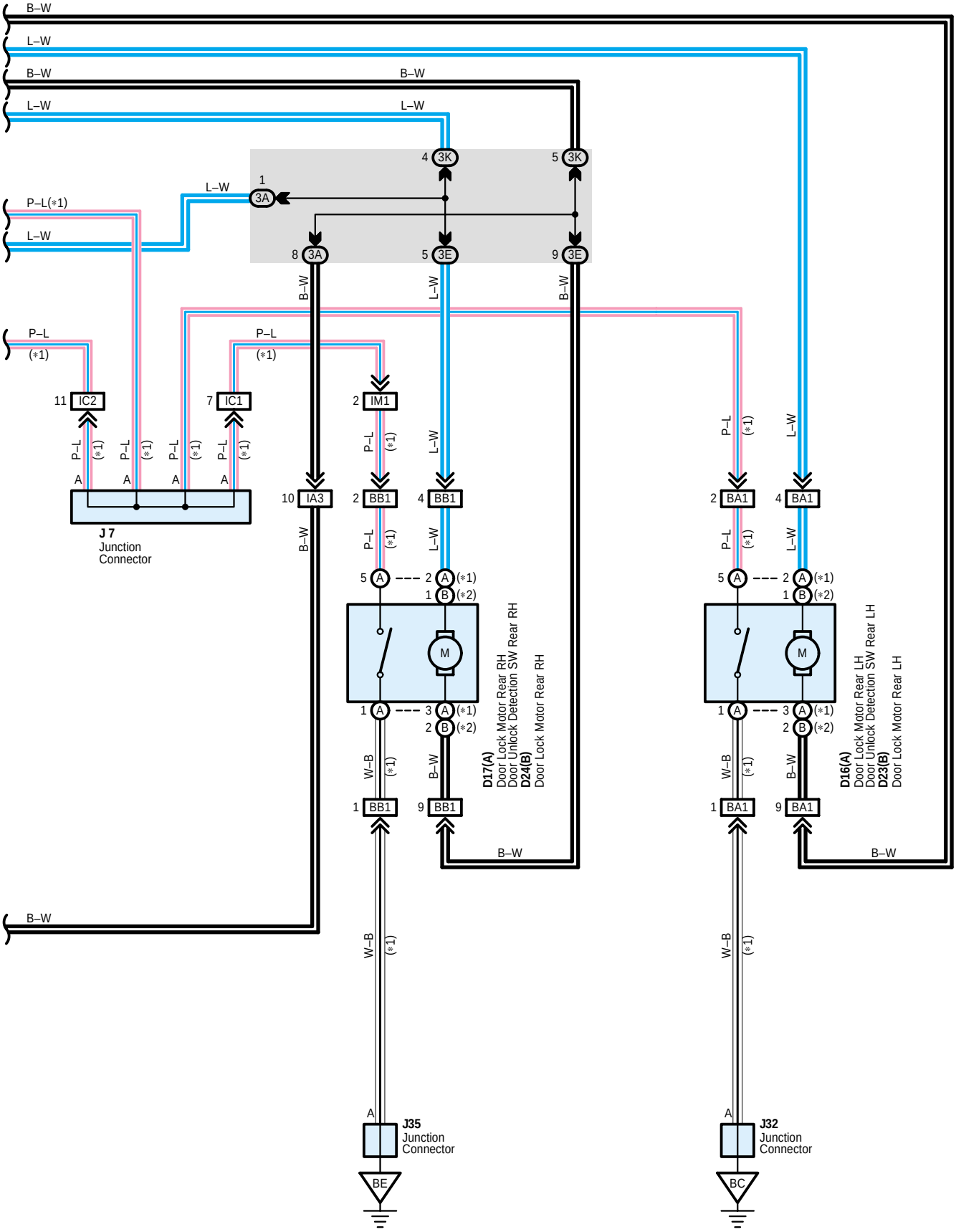
Theft Deterrent (RHD)



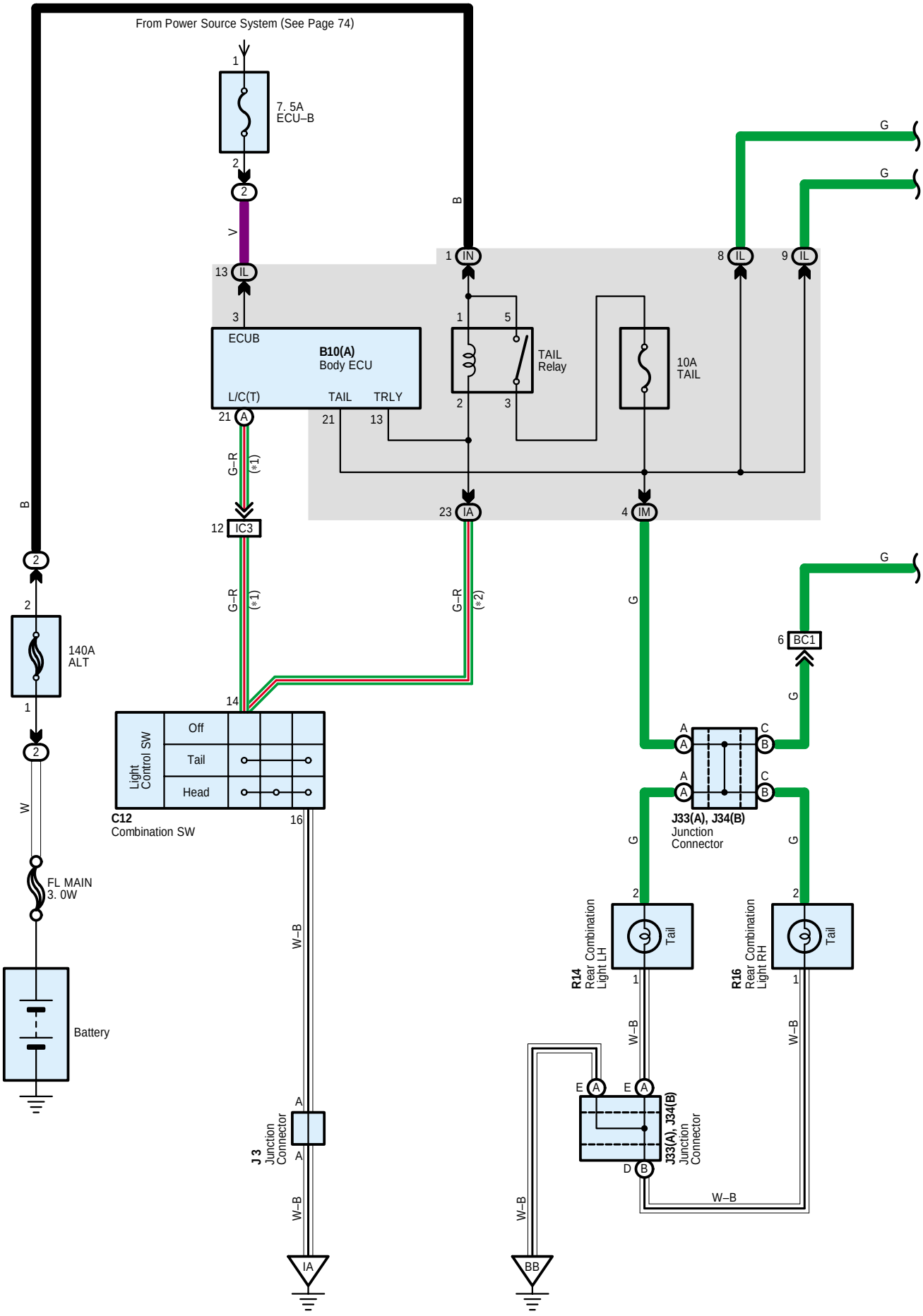
∗ 1 : w/ Double Locking System
∗ 2 : w/o Double Locking System



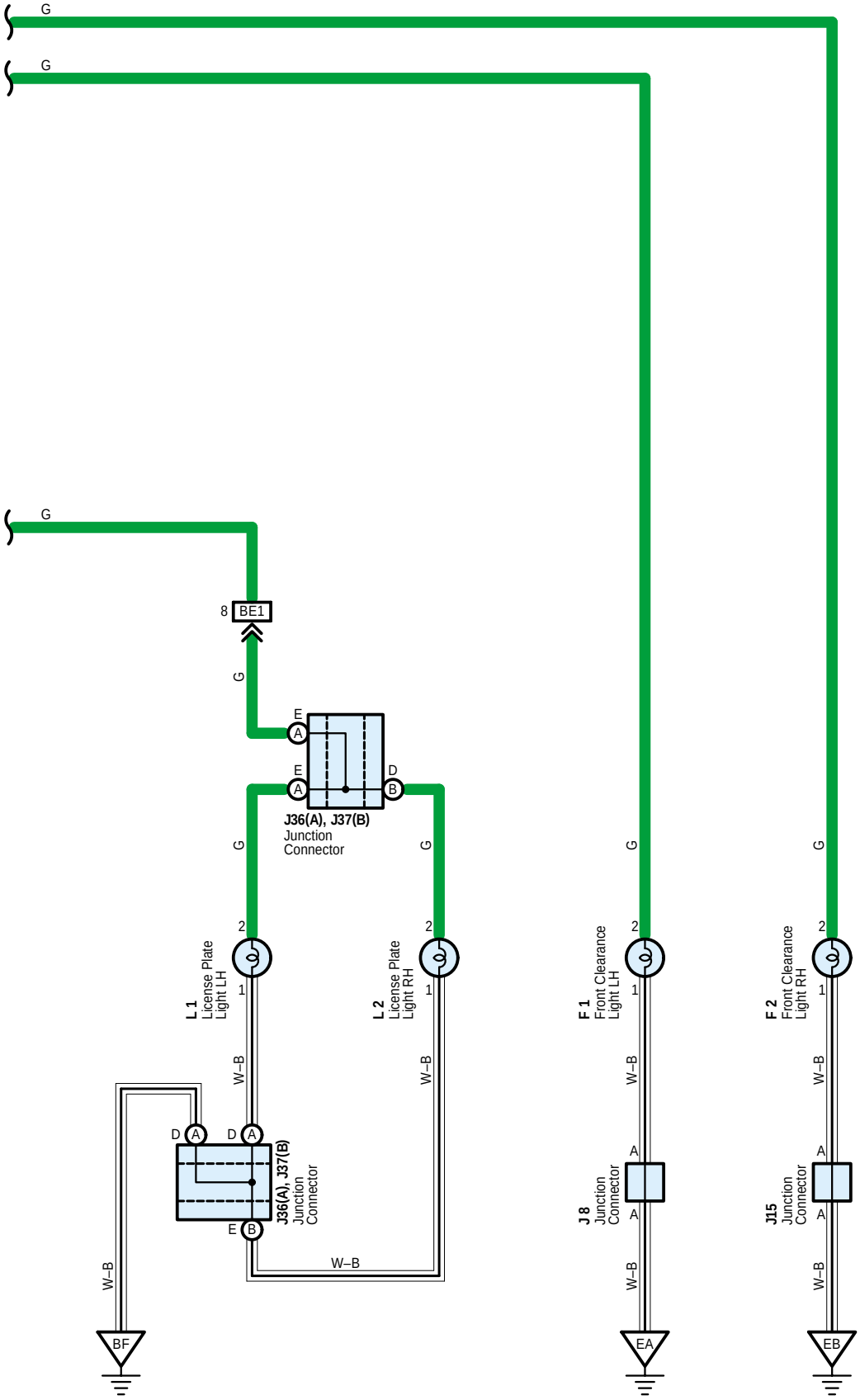
∗ 1 : w/ Double Locking System
∗ 2 : w/o Double Locking System



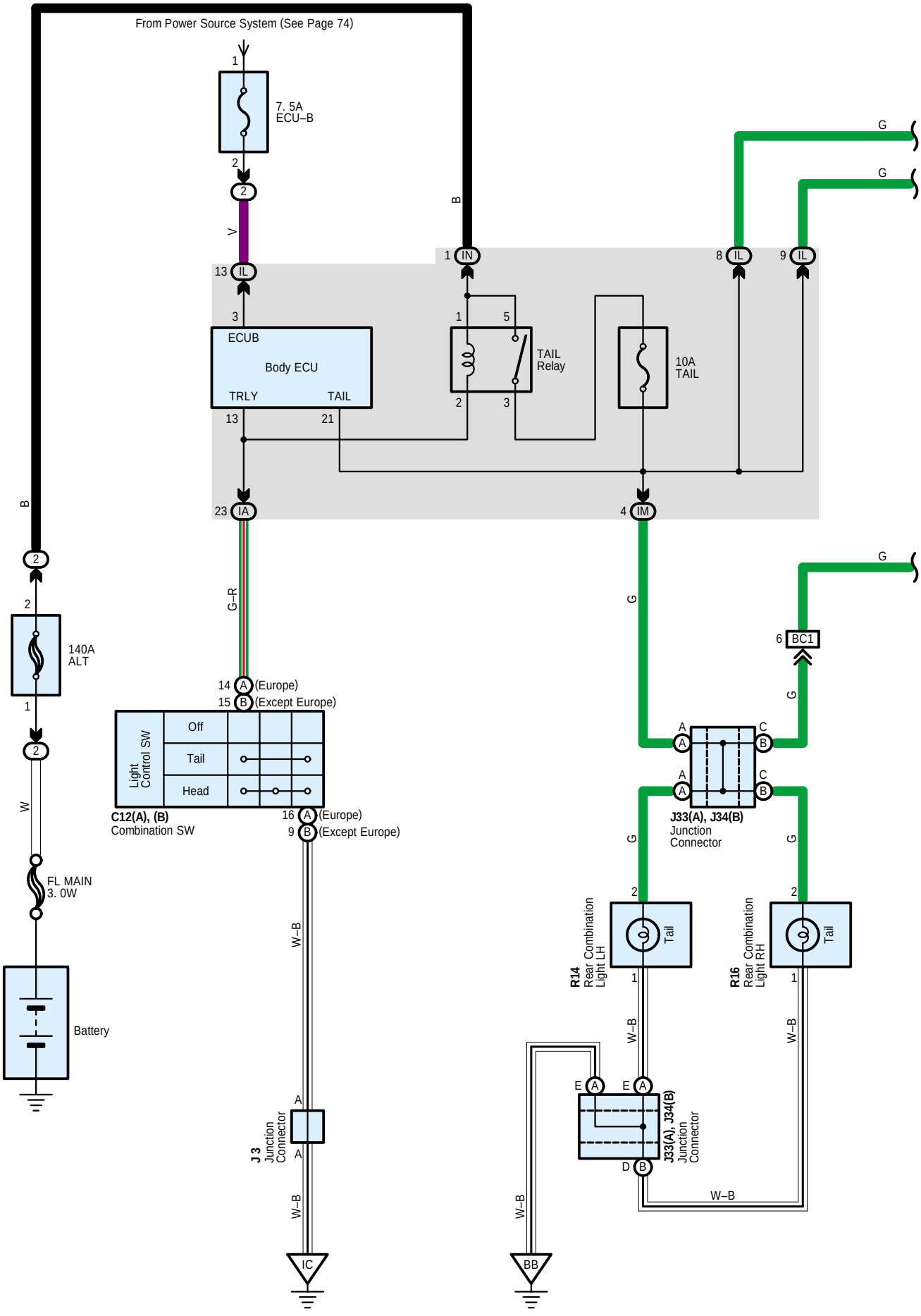
Taillight (LHD)



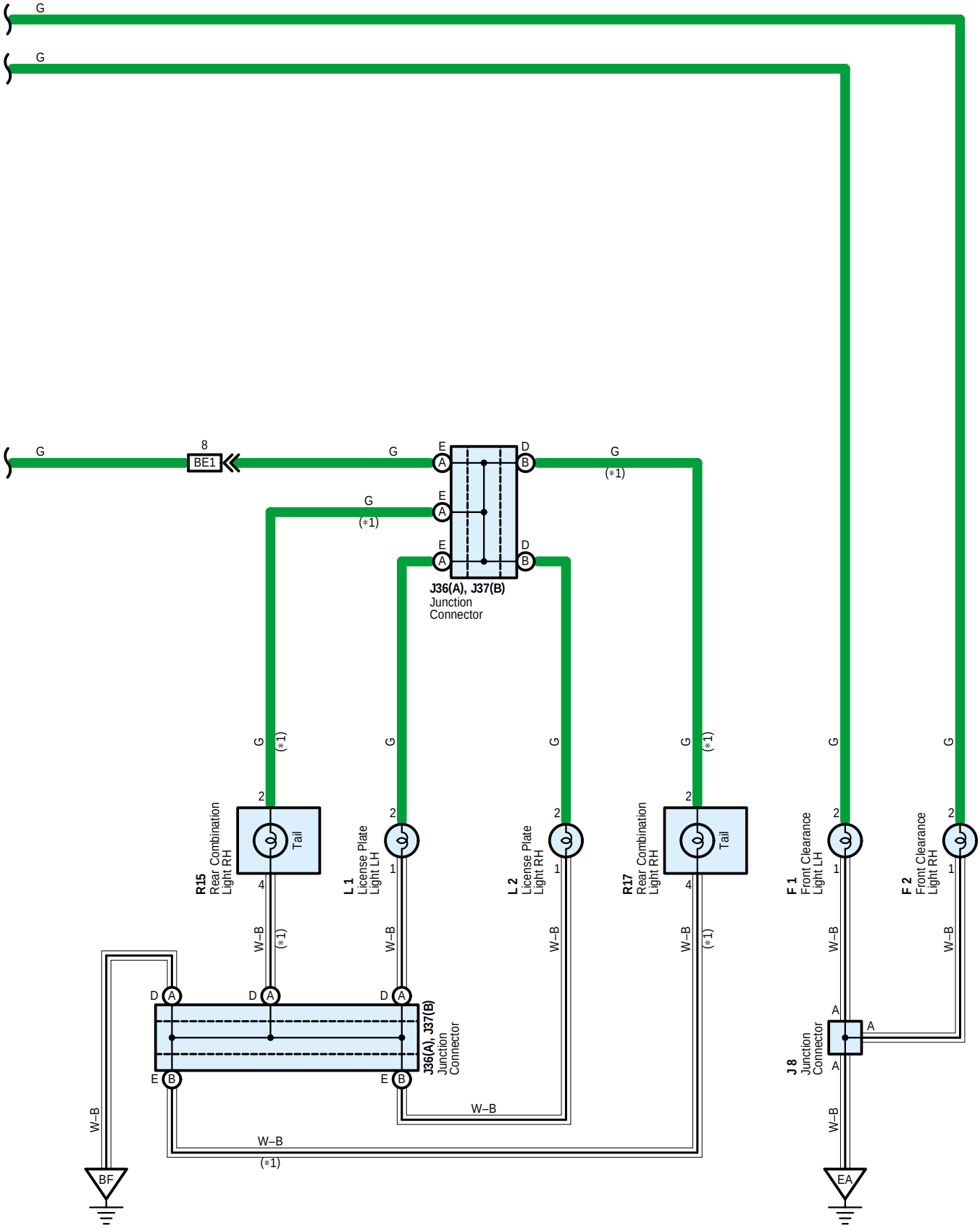
* 1 : w/ Daytime Running Light
* 2 : w/o Daytime Running Light



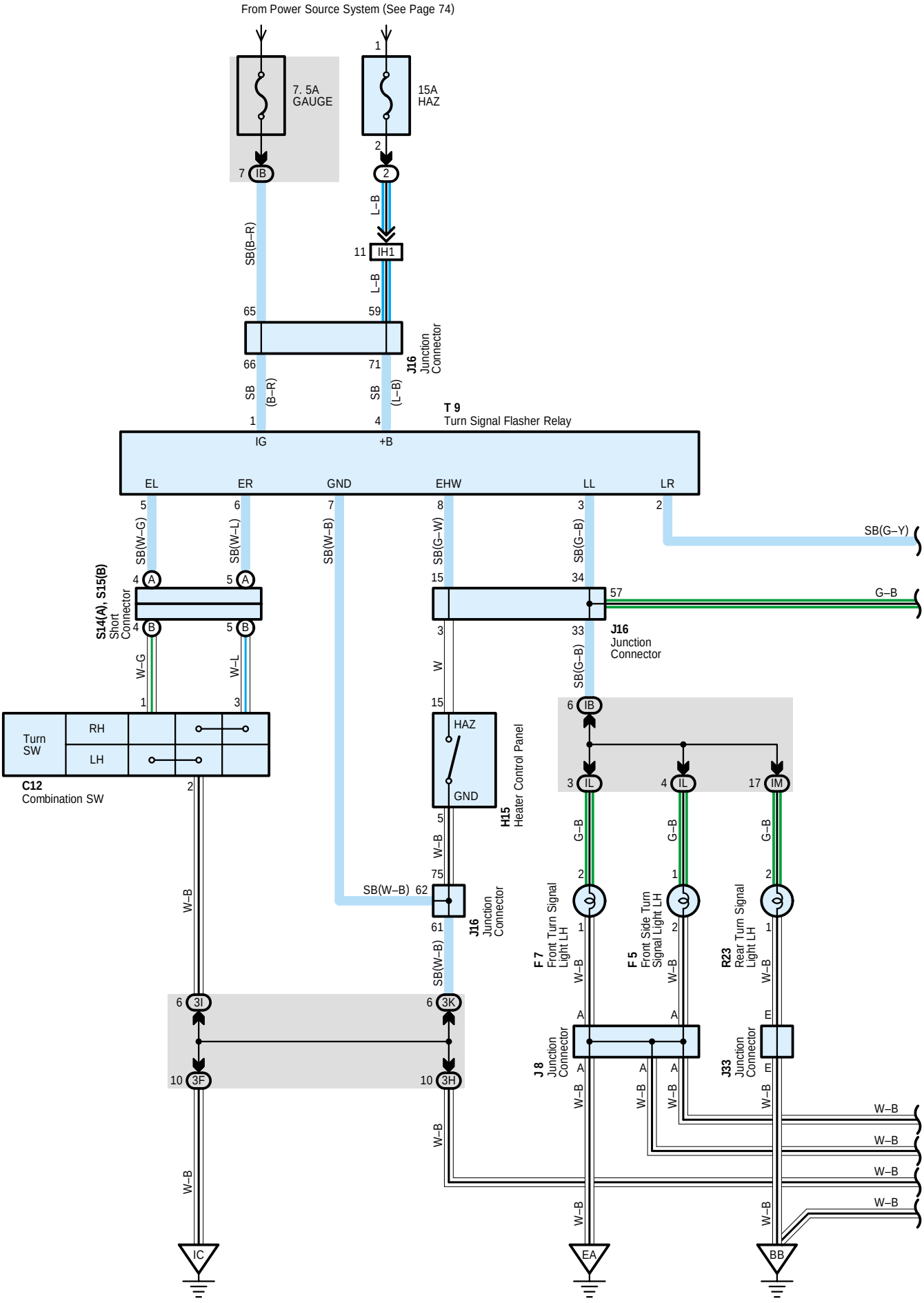
Taillight (RHD)

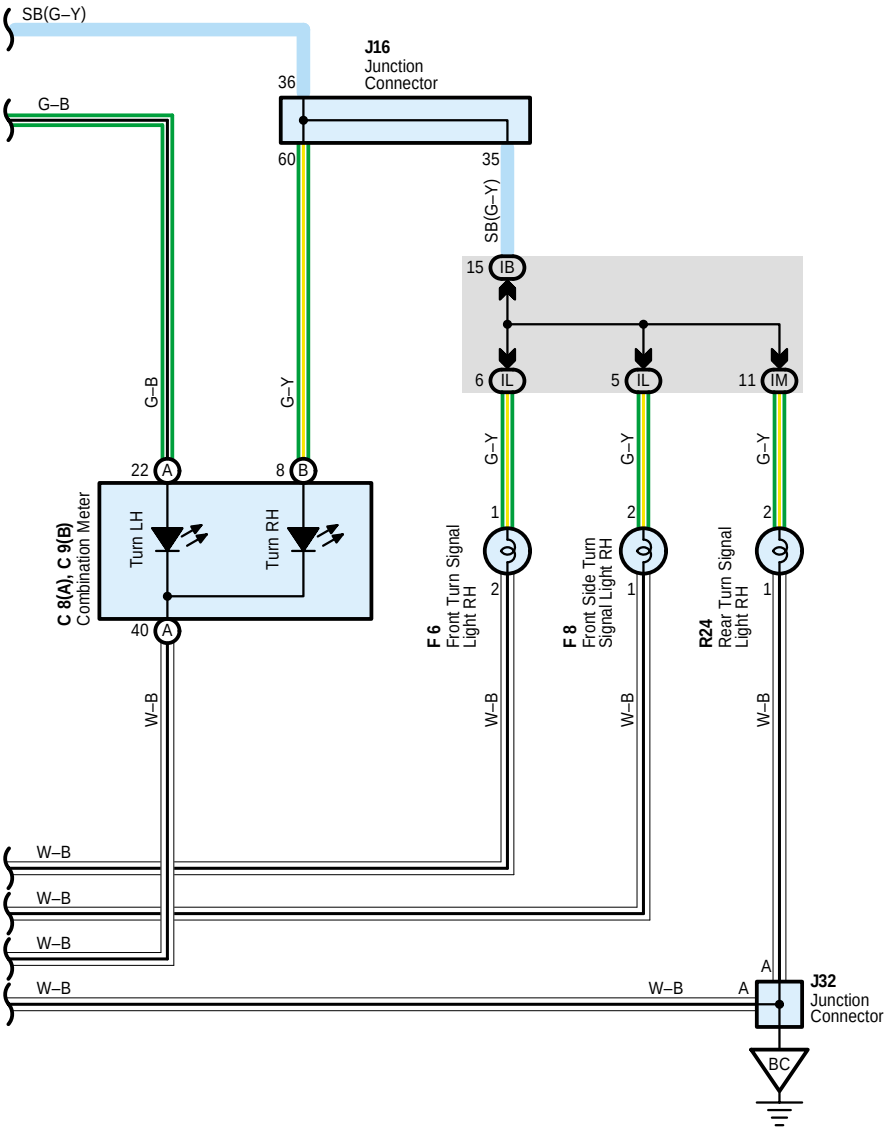


∗ 1 : General

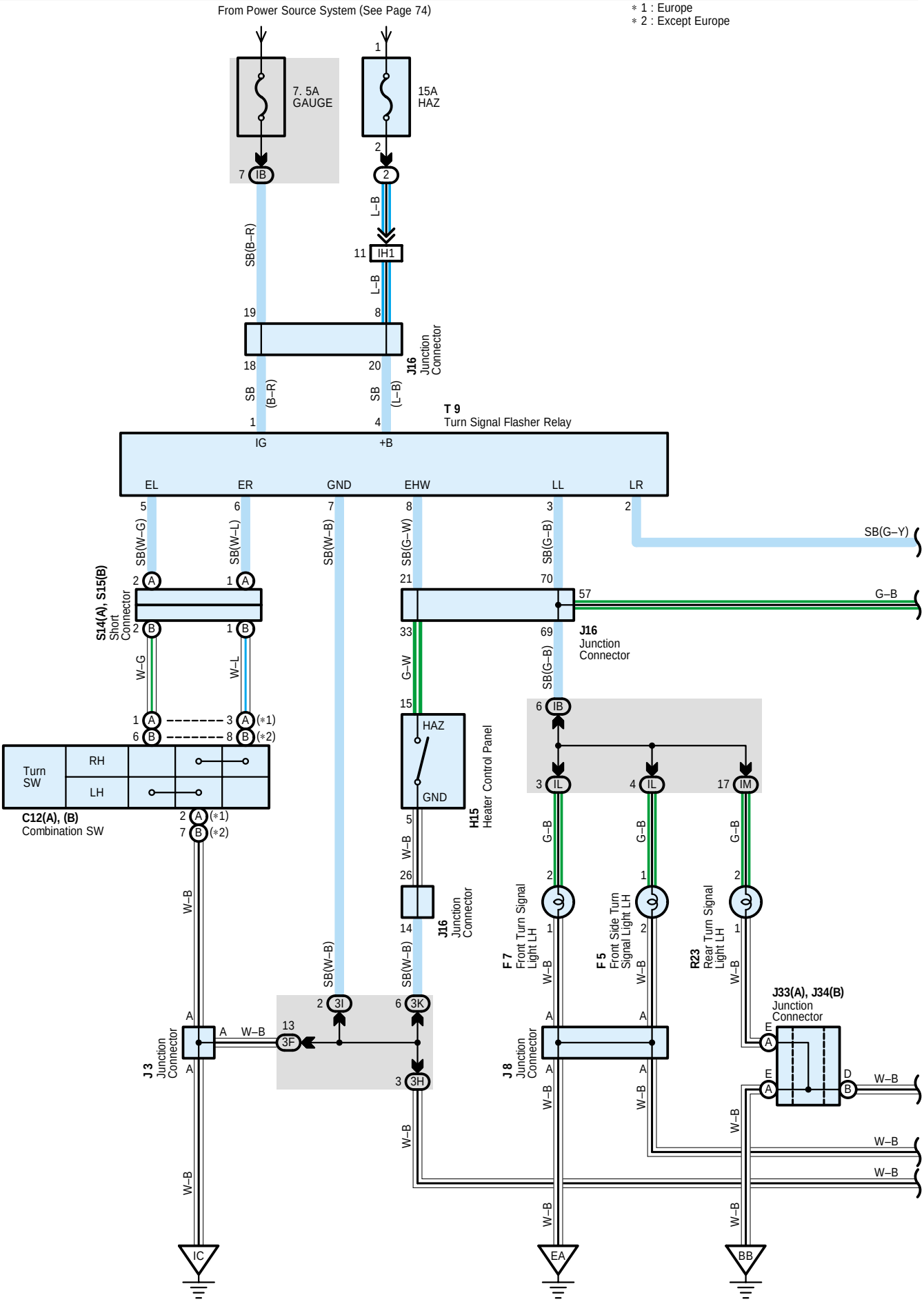

G
G
G
8
BE1
G
E
A
D
B
G
(∗1)
G
(∗1)
E
A
E
A
D
B
J36(A), J37(B)
Junction
Connector
G
(∗1)
G
G
G
(∗1)
G
G
2
2
2
2
2
R15
Rear Combination
Light RH
Tail
4
L 1
License Plate
Light LH
1
L 2
License Plate
Light RH
1
R17
Rear Combination
Light RH
Tail
4
F 1
Front Clearance
Light LH
1
F 2
Front Clearance
Light RH
1
W–B
(∗1)
W–B
W–B
W–B
W–B
(∗1)
W–B
W–B
D
A
D
A
D
A
J36(A), J37(B)
Junction
Connector
E
B
E
B
W–B
W–B
(∗1)
W–B
BF
A
A
J 8
Junction
Connector
A
W–B
EA

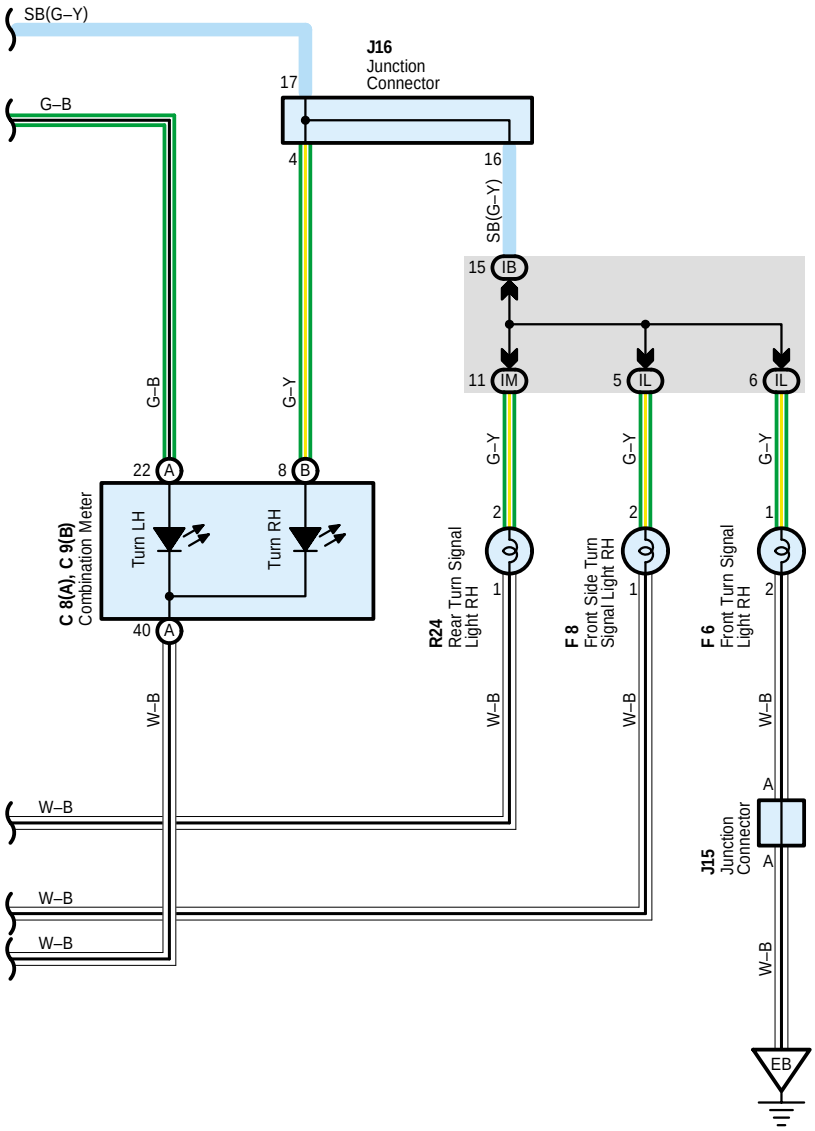
Turn Signal and Hazard Warning Light (LHD)



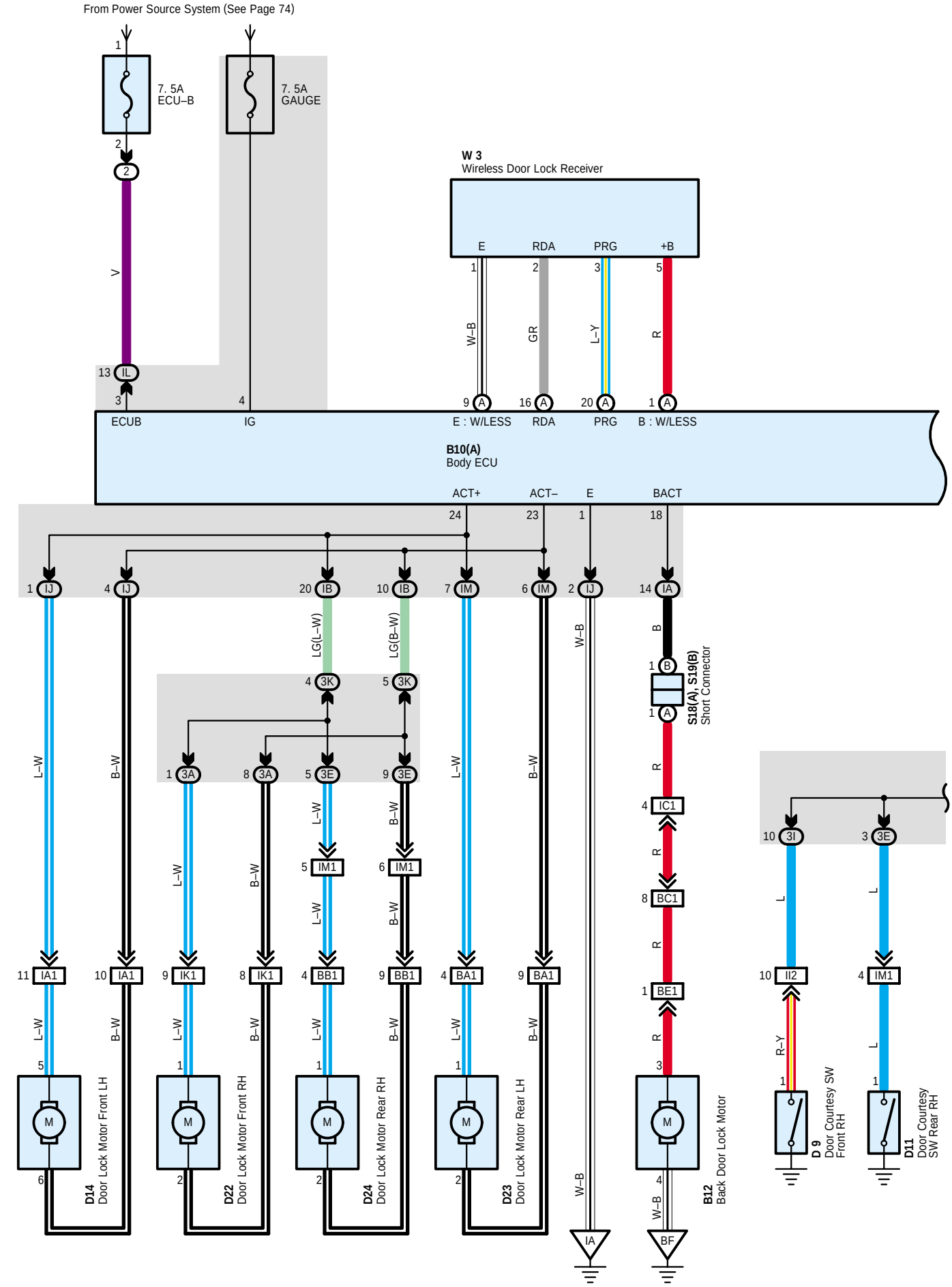

SB(G–Y)
J16
Junction
Connector
36
G–B
60
35
SB(G–Y)
15 IB
6 IL
5 IL
11 IM
G–B
G–Y
G–Y
G–Y
G–Y
22 A
8 B
C 8(A), C 9(B)
Combination Meter
Turn LH
Turn RH
40 A
F 6
Front Turn Signal
Light RH
F 8
Front Side Turn
Signal Light RH
R24
Rear Turn Signal
Light RH
1
2
2
1
2
1
W–B
W–B
W–B
W–B
W–B
W–B
W–B
A
A
J32
Junction
Connector
BC

Turn Signal and Hazard Warning Light (RHD)

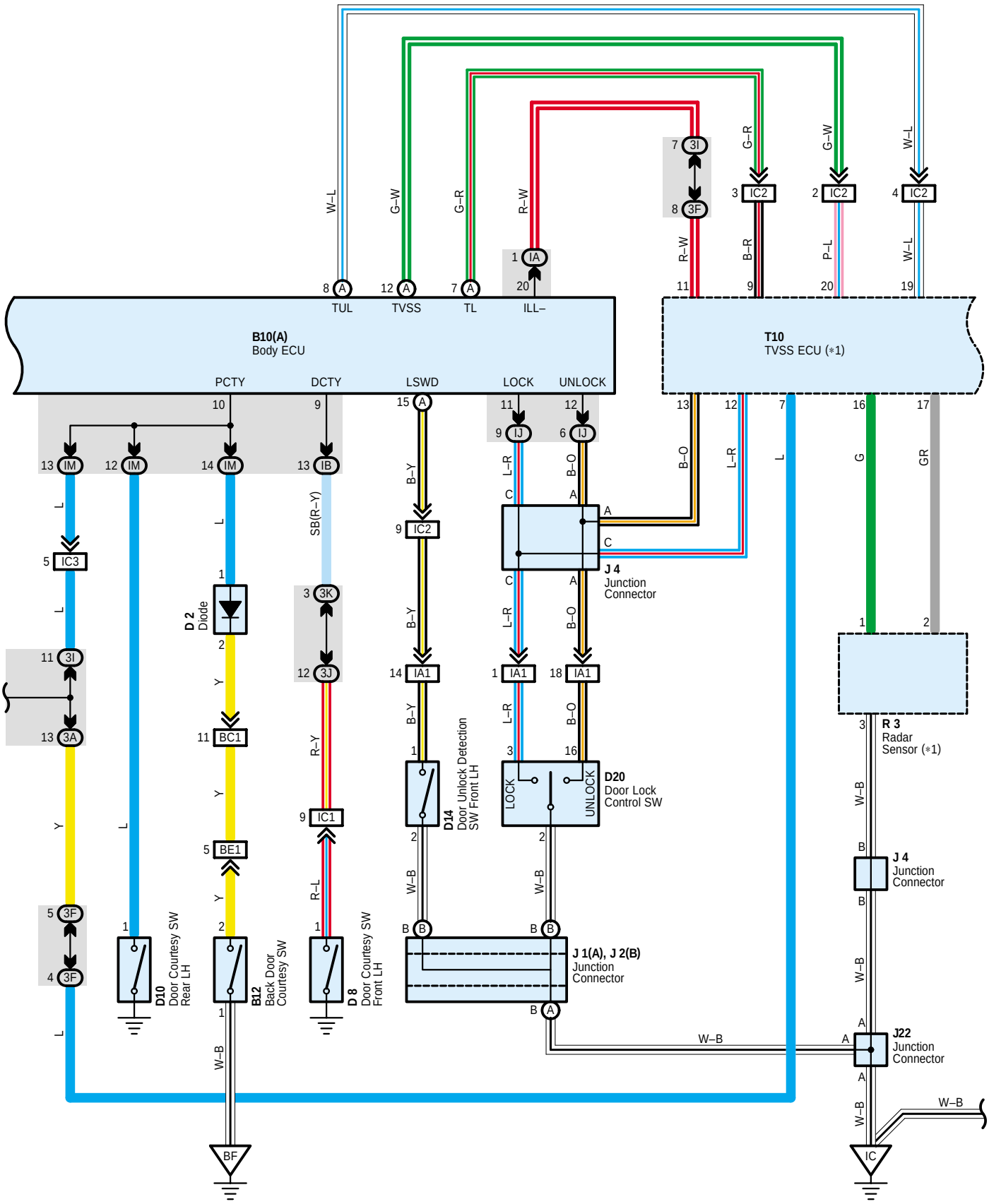


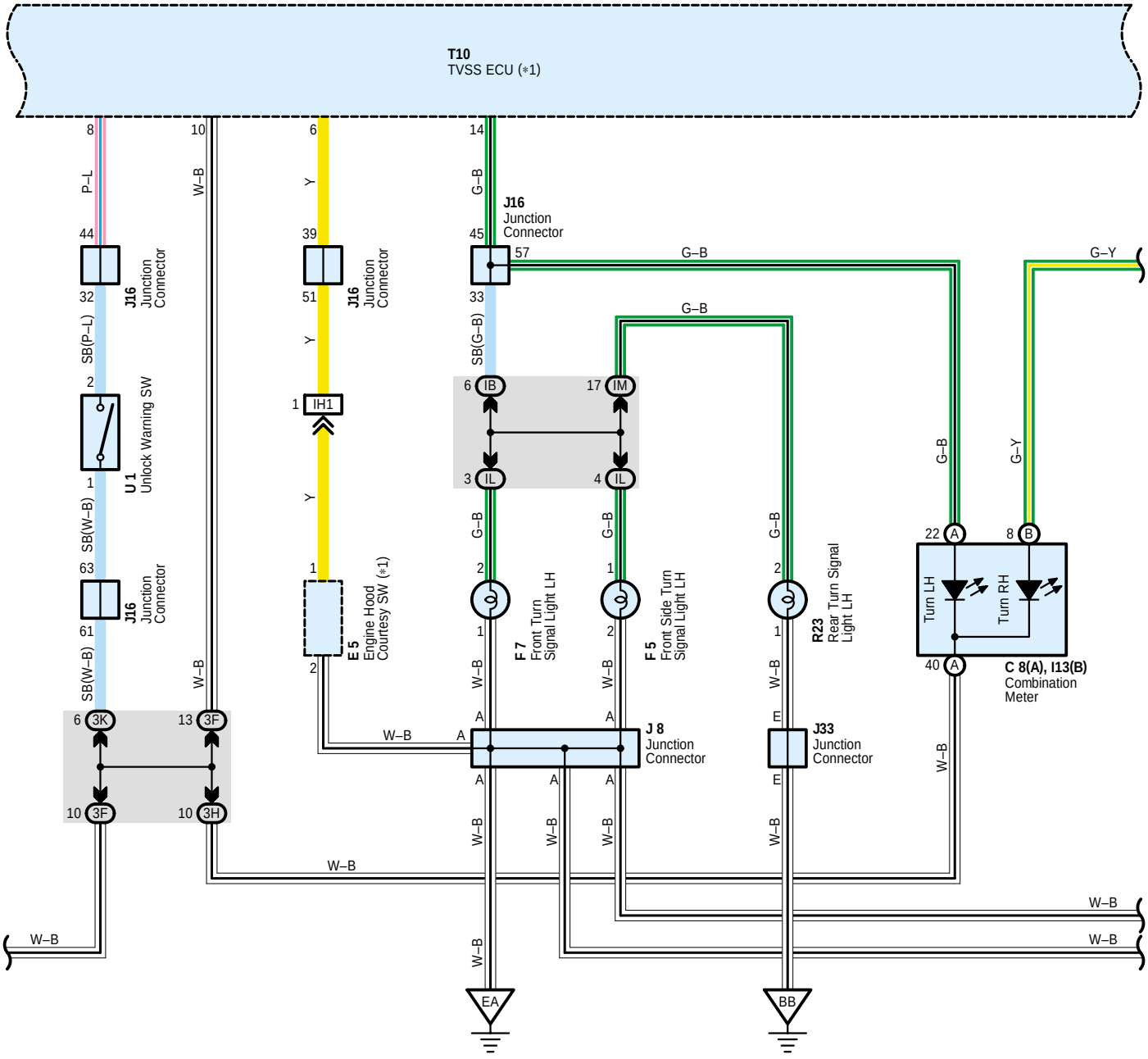

SB(G–Y)
G–B
J16
Junction
Connector
17
4
16
SB(G–Y)
15 IB
11 IM
5 IL
6 IL
G–B
G–Y
G–Y
G–Y
G–Y
22 A
8 B
Turn LH
Turn RH
C 8(A), C 9(B)
Combination Meter
40 A
2
1
R24
Rear Turn Signal
Light RH
F 8
Front Side Turn
Signal Light RH
F 6
Front Turn Signal
Light RH
W–B
W–B
W–B
W–B
W–B
W–B
A
A
J15
Junction
Connector
W–B
EB

TVSS (LHD)


From Power Source System (See Page 74)
7. 5A ECU–B
7. 5A GAUGE
W 3
Wireless Door Lock Receiver
E
RDA
PRG
+B
W–B
GR
L–Y
R
ECUB
IG
E : W/LESS
RDA
PRG
B : W/LESS
B10(A)
Body ECU
ACT+
ACT–
E
BACT
S18(A), S19(B)
Short Connector
D14
Door Lock Motor Front LH
D22
Door Lock Motor Front RH
D24
Door Lock Motor Rear RH
D23
Door Lock Motor Rear LH
B12
Back Door Lock Motor
D 9
Door Courtesy SW Front RH
D11
Door Courtesy SW Rear RH

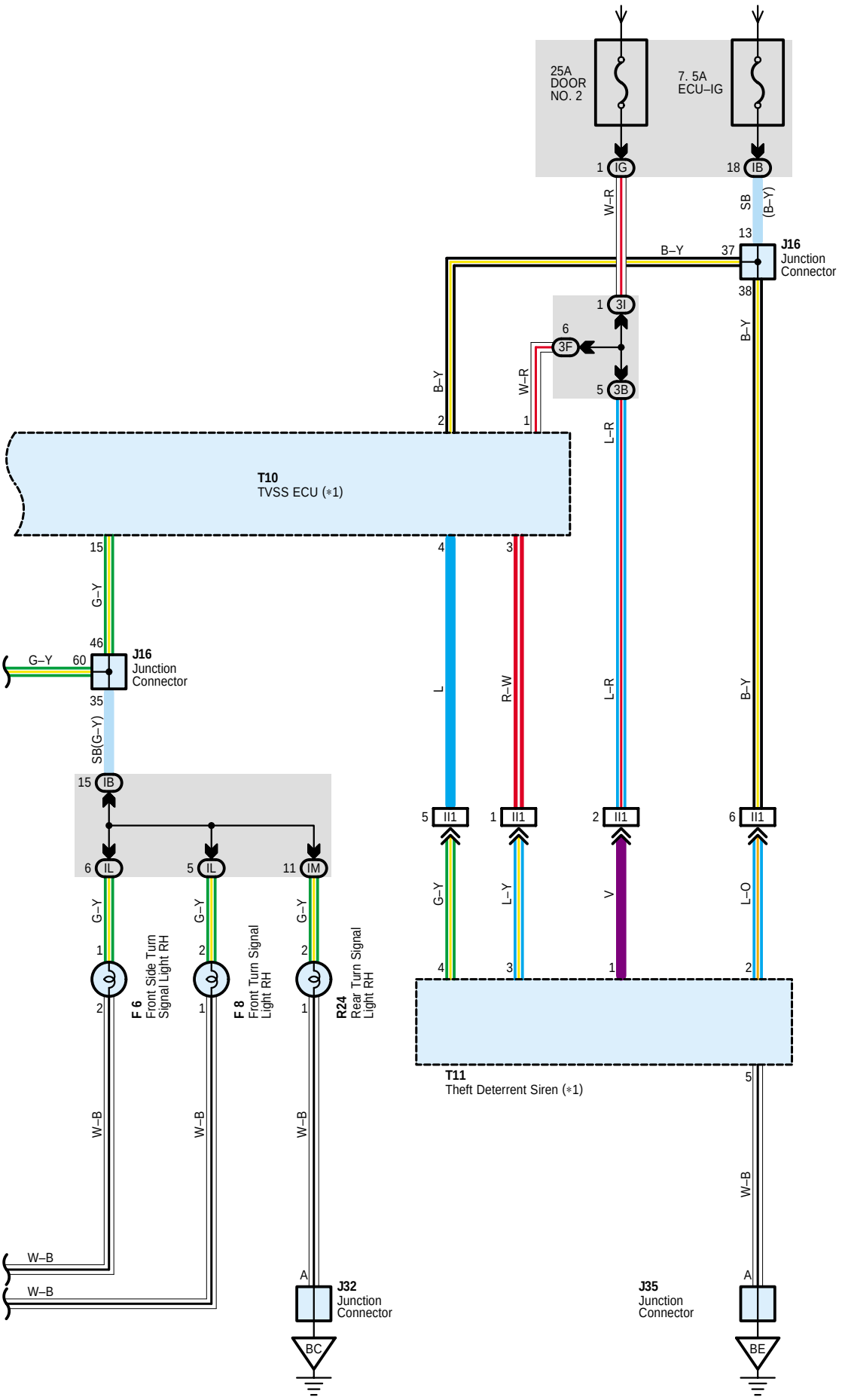
∗ 1 : Dealer Option



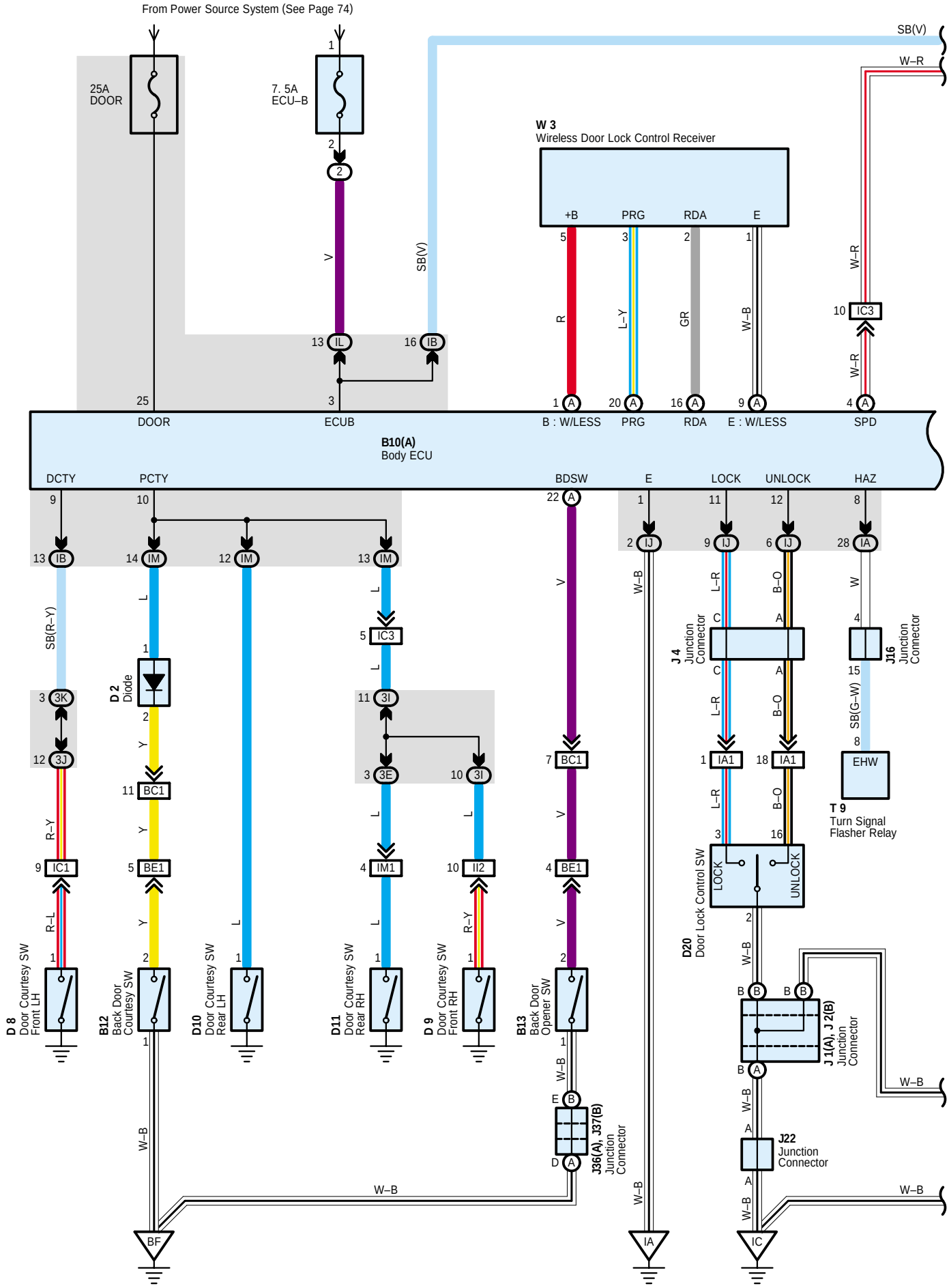

T10
TVSS ECU (*1)
J16
Junction
Connector
U 1
Unlock Warning SW
E 5
Engine Hood
Courtesy SW (*1)
F 7
Front Turn
Signal Light LH
F 5
Front Side Turn
Signal Light LH
R23
Rear Turn Signal
Light LH
J 8
Junction
Connector
J33
Junction
Connector
C 8(A), I13(B)
Combination
Meter
Turn LH
Turn RH
EA
BB

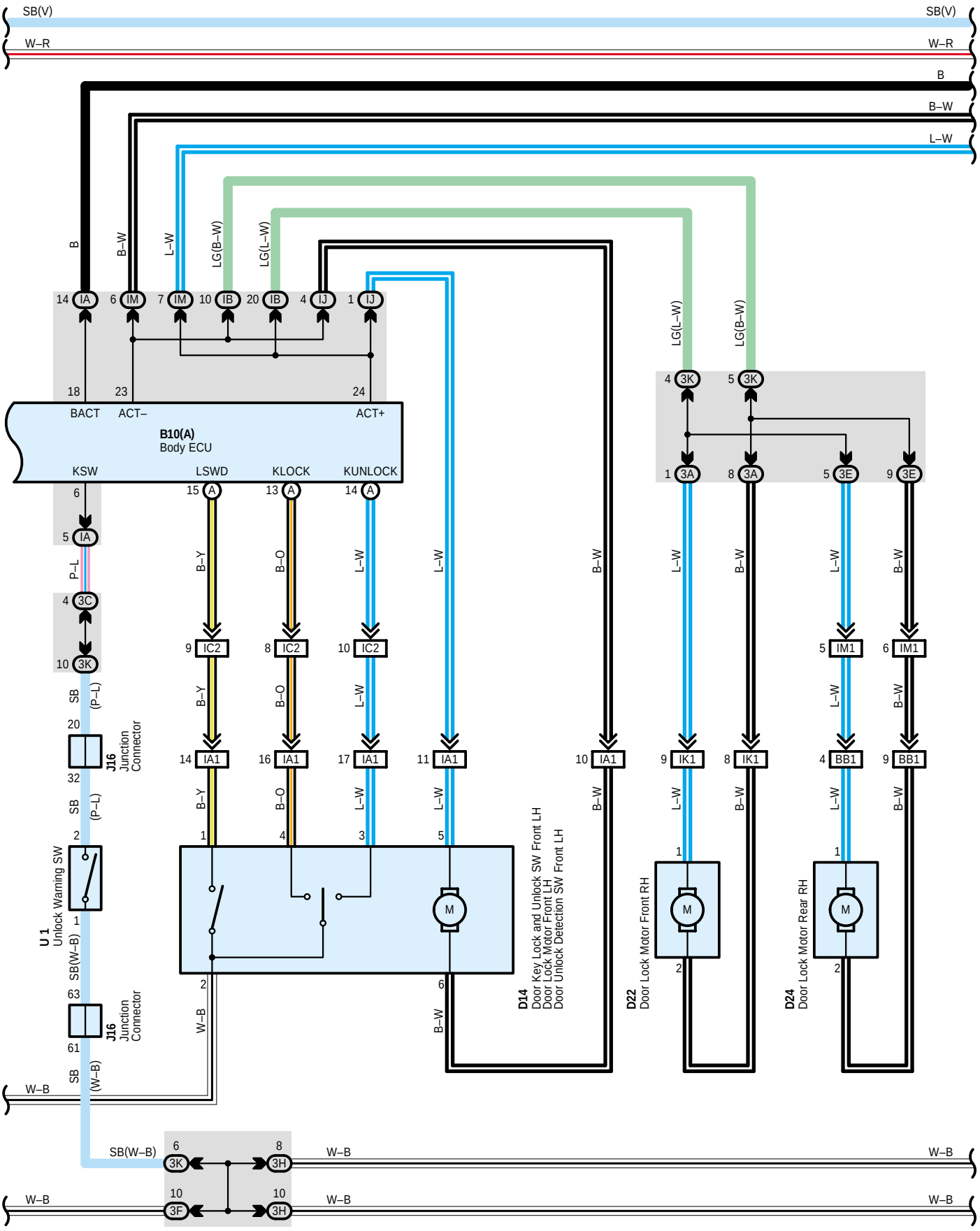
∗ 1 : Dealer Option

From Power Source System (See Page 74)

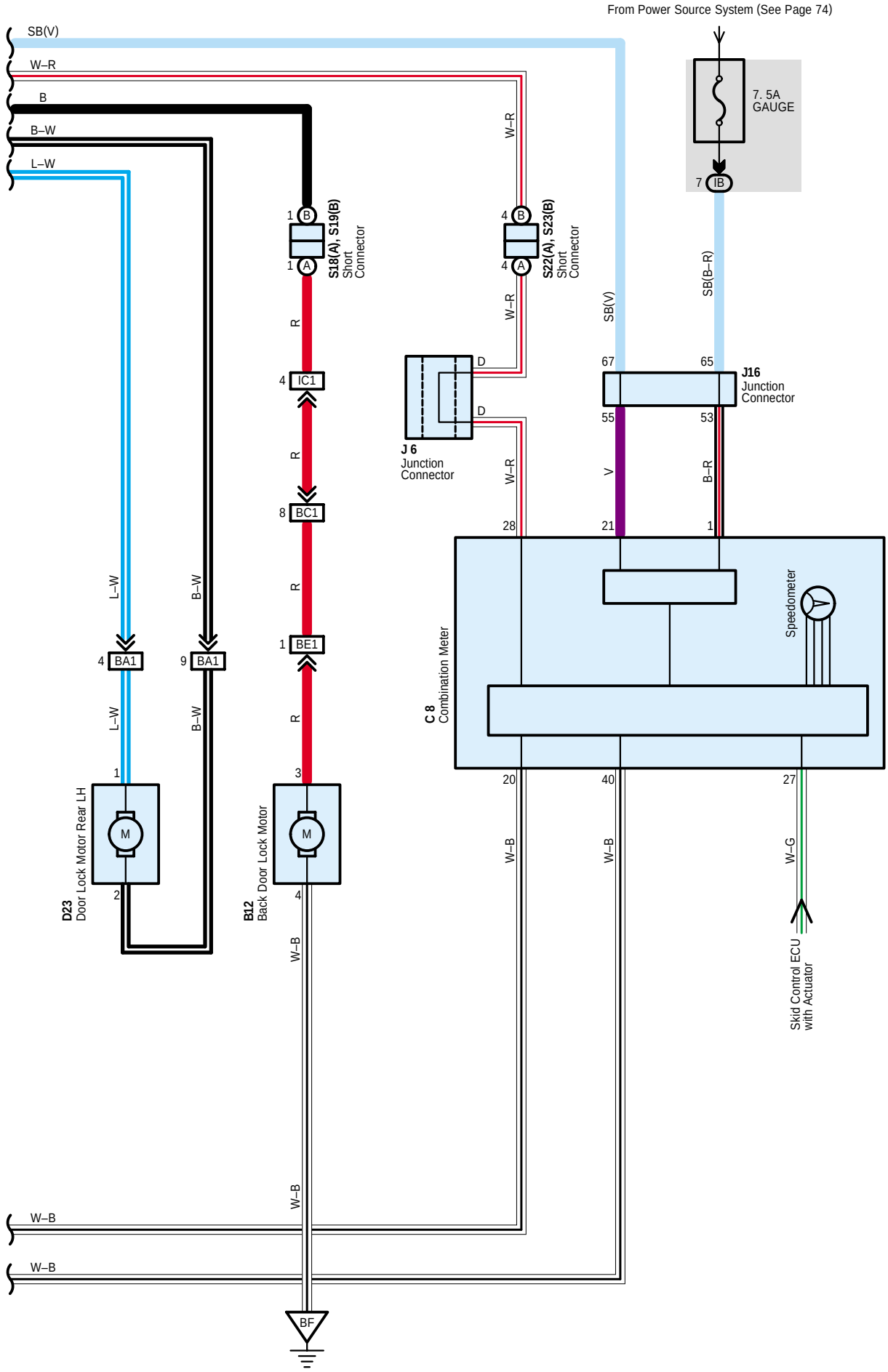


Wireless Door Lock Control (LHD)

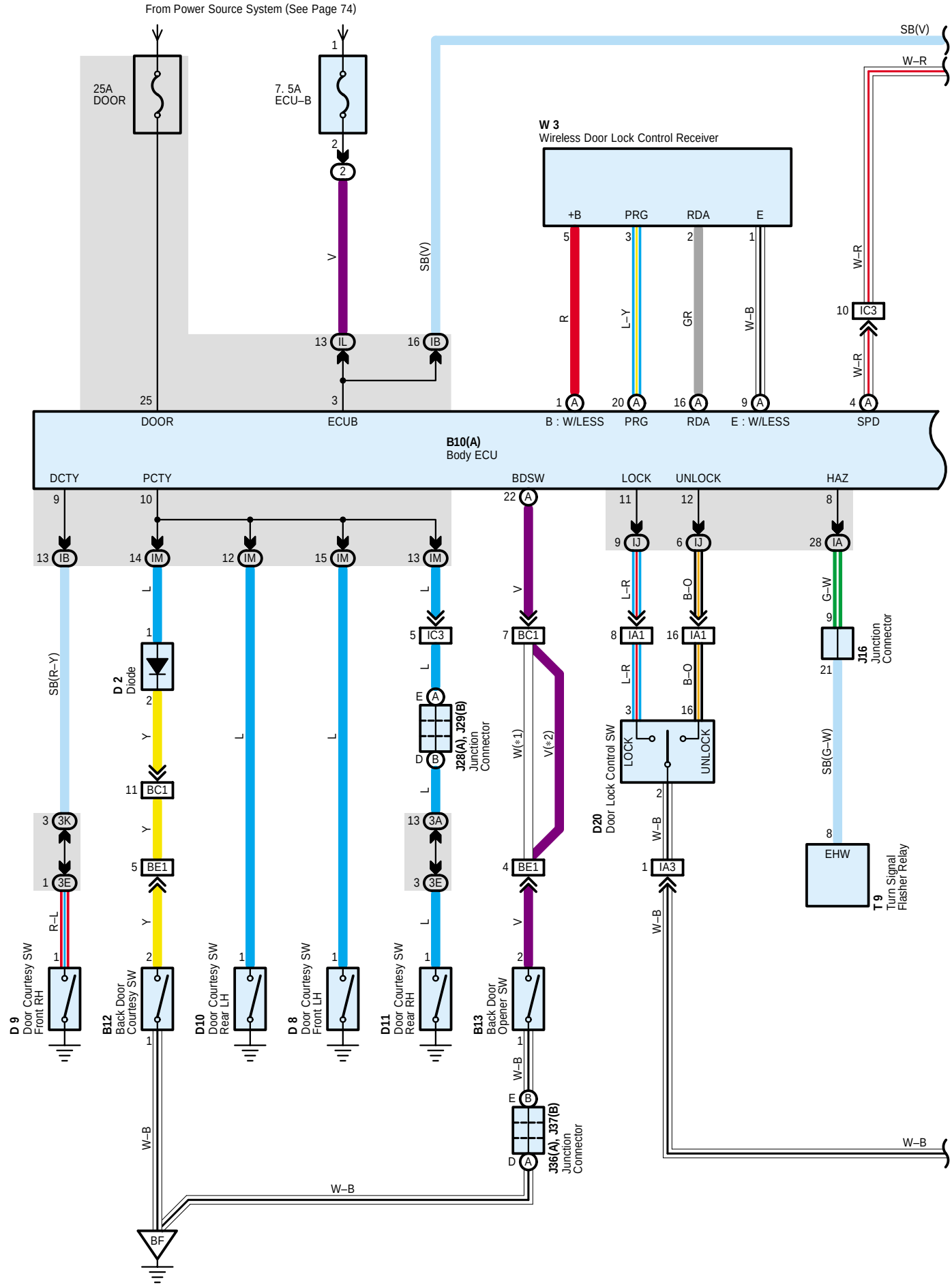


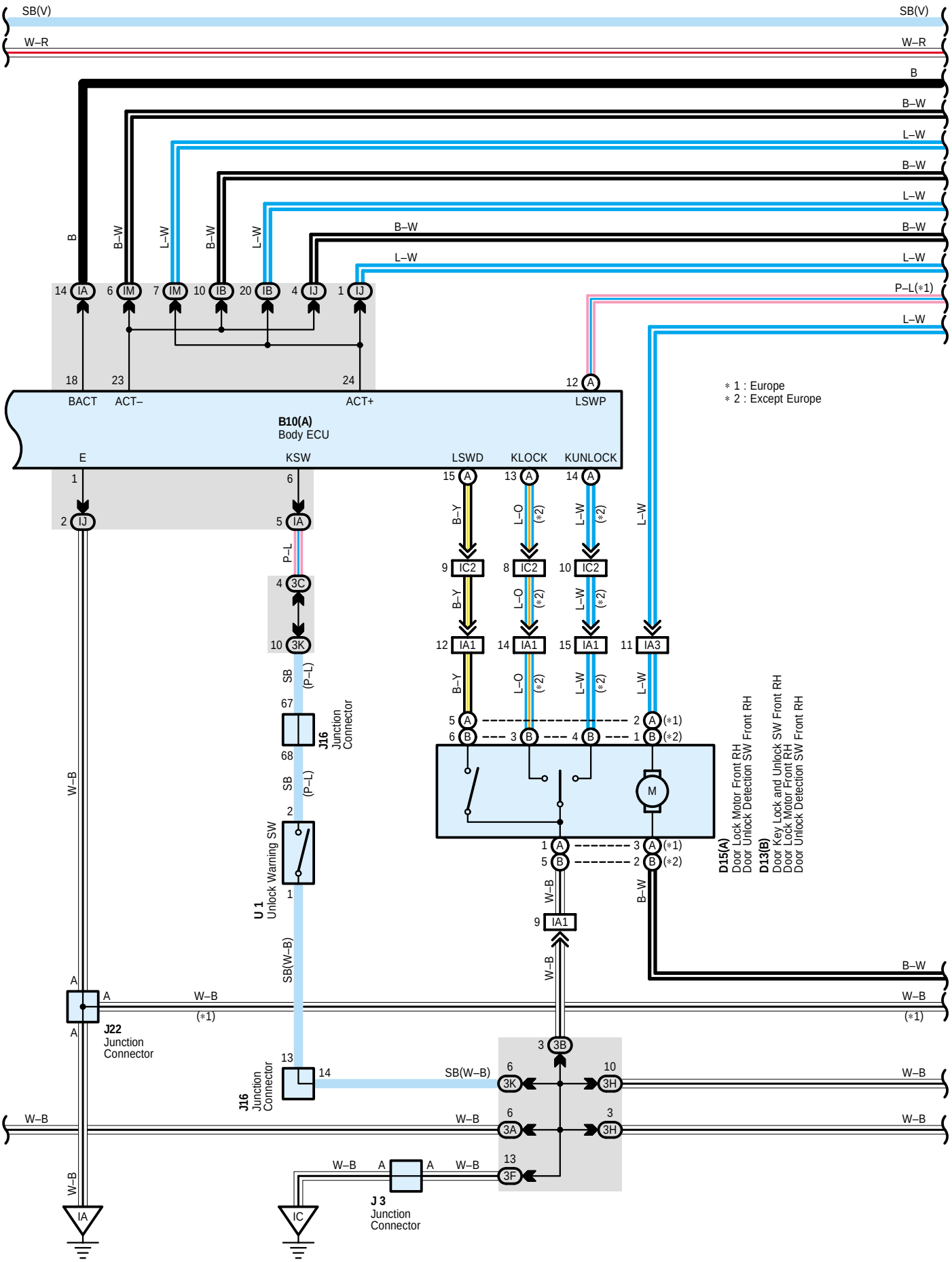

SB(V)
W–R
B
B–W
L–W
LG(B–W)
LG(L–W)
14 IA
6 IM
7 IM
10 IB
20 IB
4 IJ
1 IJ
18 BACT
23 ACT–
24 ACT+
B10(A)
Body ECU
KSW
LSWD
KLOCK
KUNLOCK
6
5 IA
15 A
13 A
14 A
P–L
B–Y
B–O
L–W
4 3C
10 3K
9 IC2
8 IC2
10 IC2
SB
(P–L)
20
32
J16
Junction Connector
14 IA1
16 IA1
17 IA1
11 IA1
10 IA1
2
1
U 1
Unlock Warning SW
SB(W–B)
63
61
J16
Junction Connector
W–B
D14
Door Key Lock and Unlock SW Front LH
Door Lock Motor Front LH
Door Unlock Detection SW Front LH
M
4 3K
5 3K
1 3A
8 3A
5 3E
9 3E
9 IK1
8 IK1
4 BB1
9 BB1
5 IM1
6 IM1
D22
Door Lock Motor Front RH
D24
Door Lock Motor Rear RH
6 3K
8 3H
10 3F
10 3H

Wireless Door Lock Control (LHD)

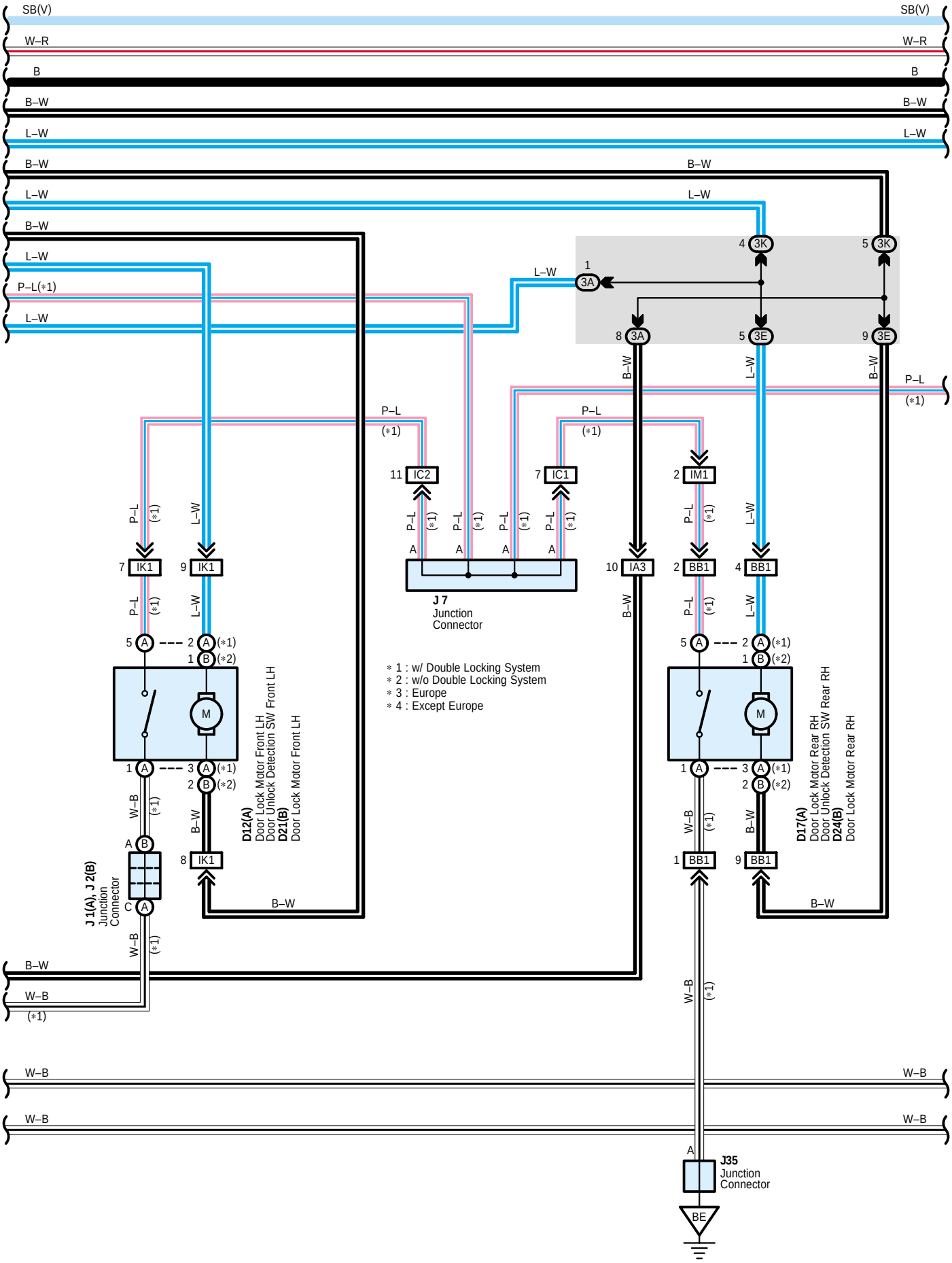


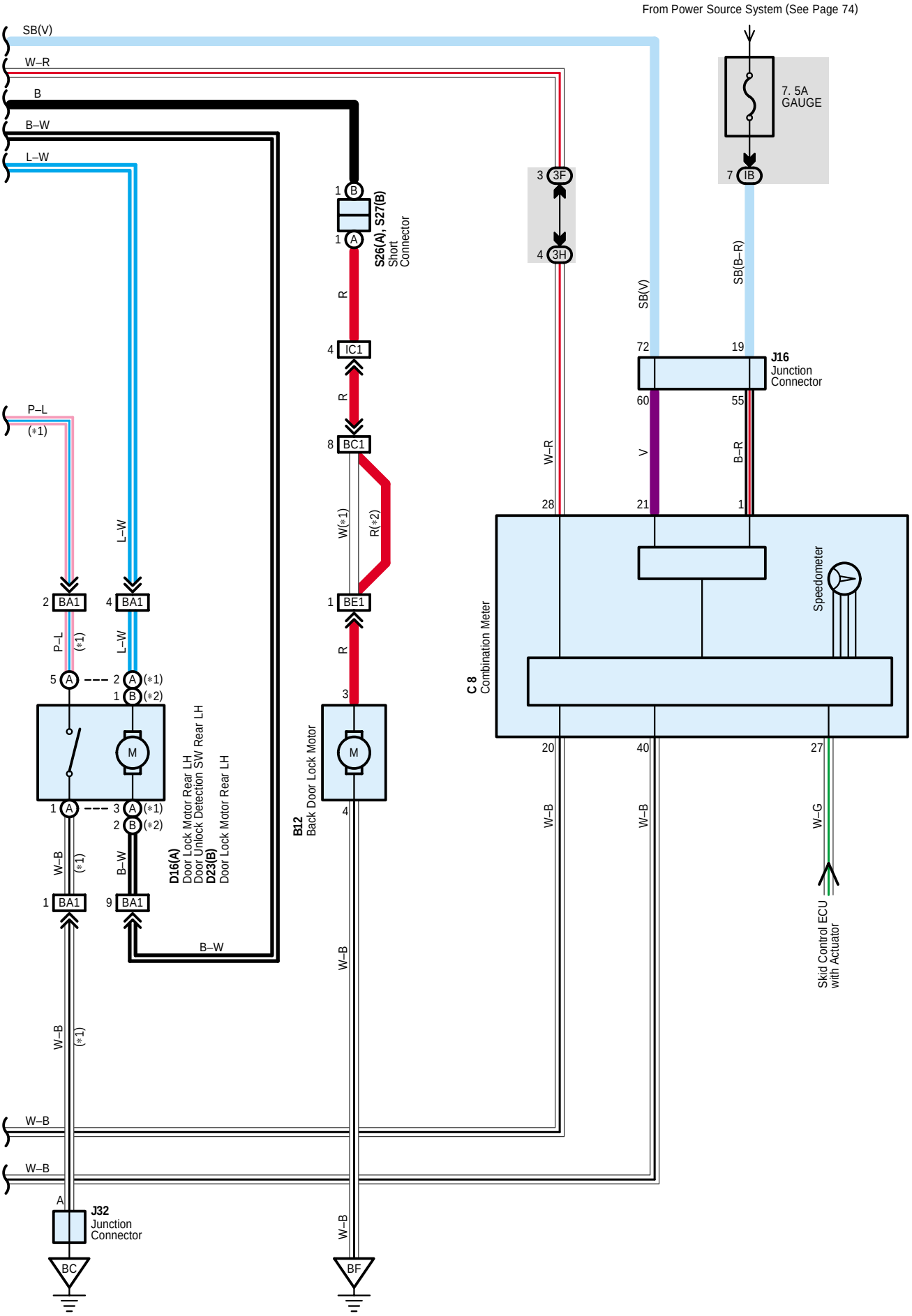
Wireless Door Lock Control (RHD)



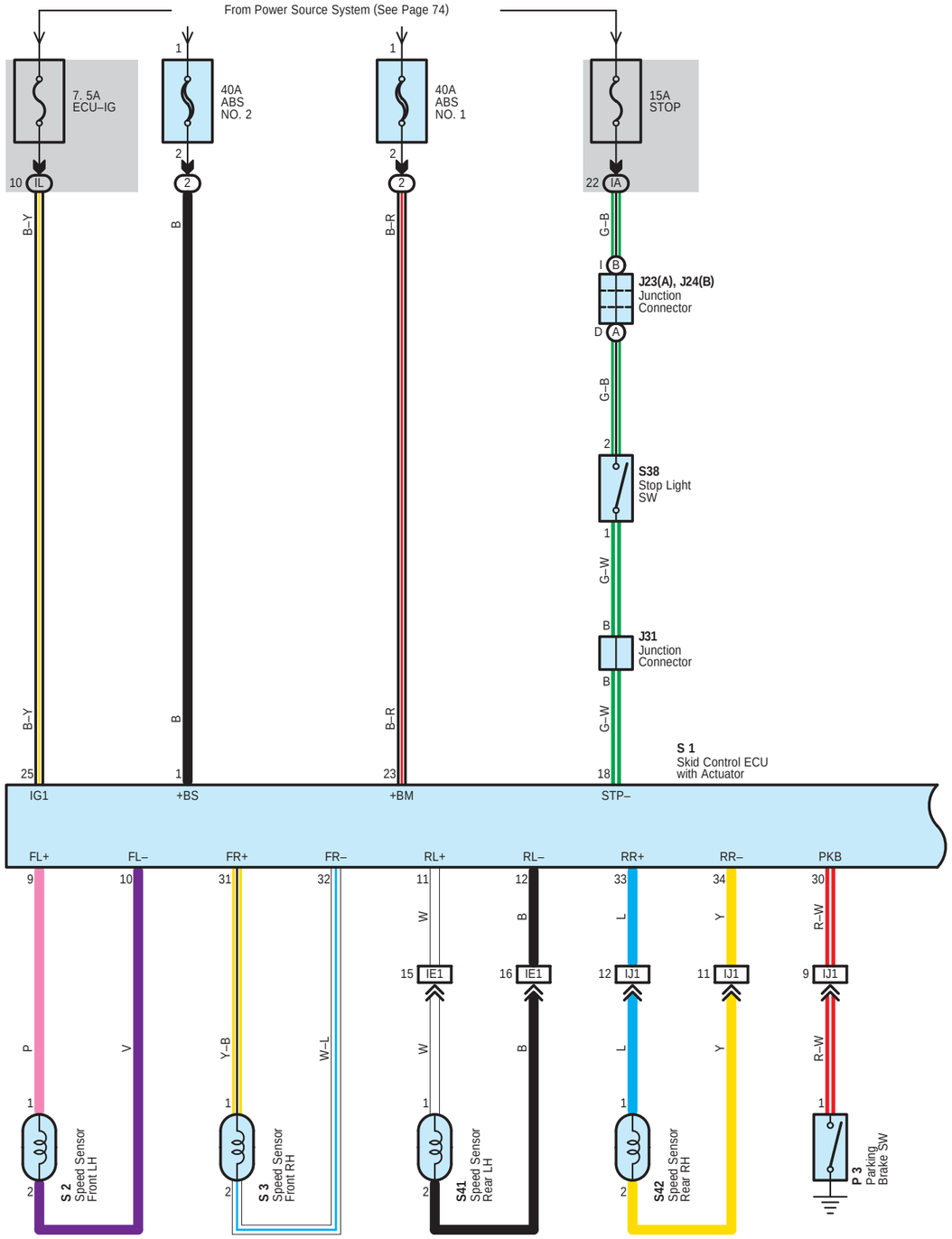

SB(V)
W–R
B
B–W
L–W
P–L(*1)
14 IA
6 IM
7 IM
10 IB
20 IB
4 IJ
1 IJ
18 BACT
23 ACT–
24 ACT+
12 A LSWP
B10(A)
Body ECU
E
KSW
LSWD
KLOCK
KUNLOCK
* 1 : Europe
* 2 : Except Europe
15 A
13 A
14 A
9 IC2
8 IC2
10 IC2
12 IA1
14 IA1
15 IA1
11 IA3
B–Y
L–O
L–W
(*2)
1 2 IJ
6 5 IA
4 3C
10 3K
SB
(P–L)
67
68
J16
Junction Connector
U 1
Unlock Warning SW
SB(W–B)
5 A
6 B
2 A (*1)
1 B (*2)
3 B
4 B
M
D15(A)
Door Lock Motor Front RH
Door Unlock Detection SW Front RH
D13(B)
Door Key Lock and Unlock SW Front RH
Door Lock Motor Front RH
Door Unlock Detection SW Front RH
1 A
5 B
3 A (*1)
2 B (*2)
W–B
9 IA1
A
J22
Junction Connector
(*1)
3 3B
13
14
6 3K
10 3H
6 3A
3 3H
13 3F
J 3
Junction Connector
IA
IC

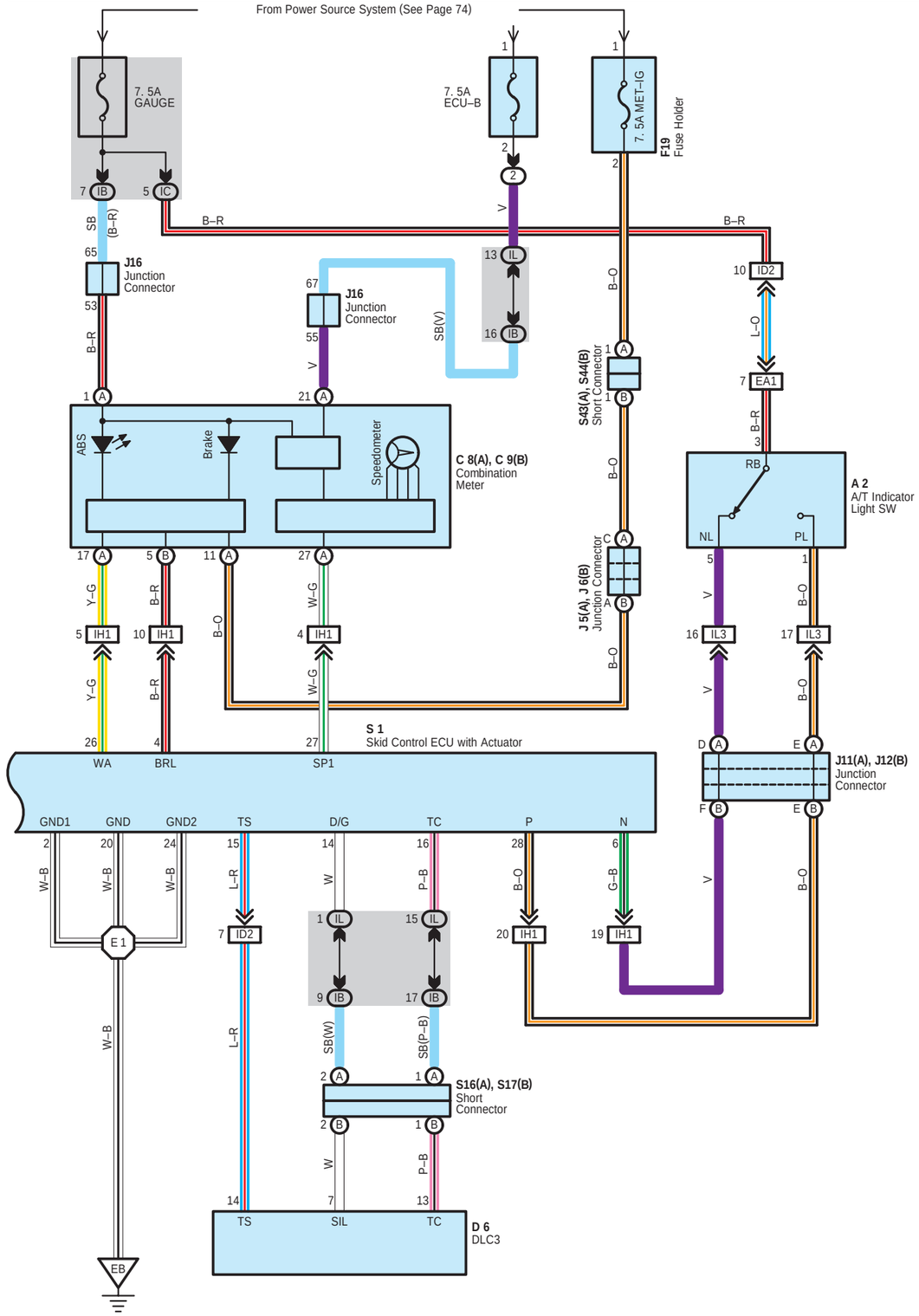
Wireless Door Lock Control (RHD)



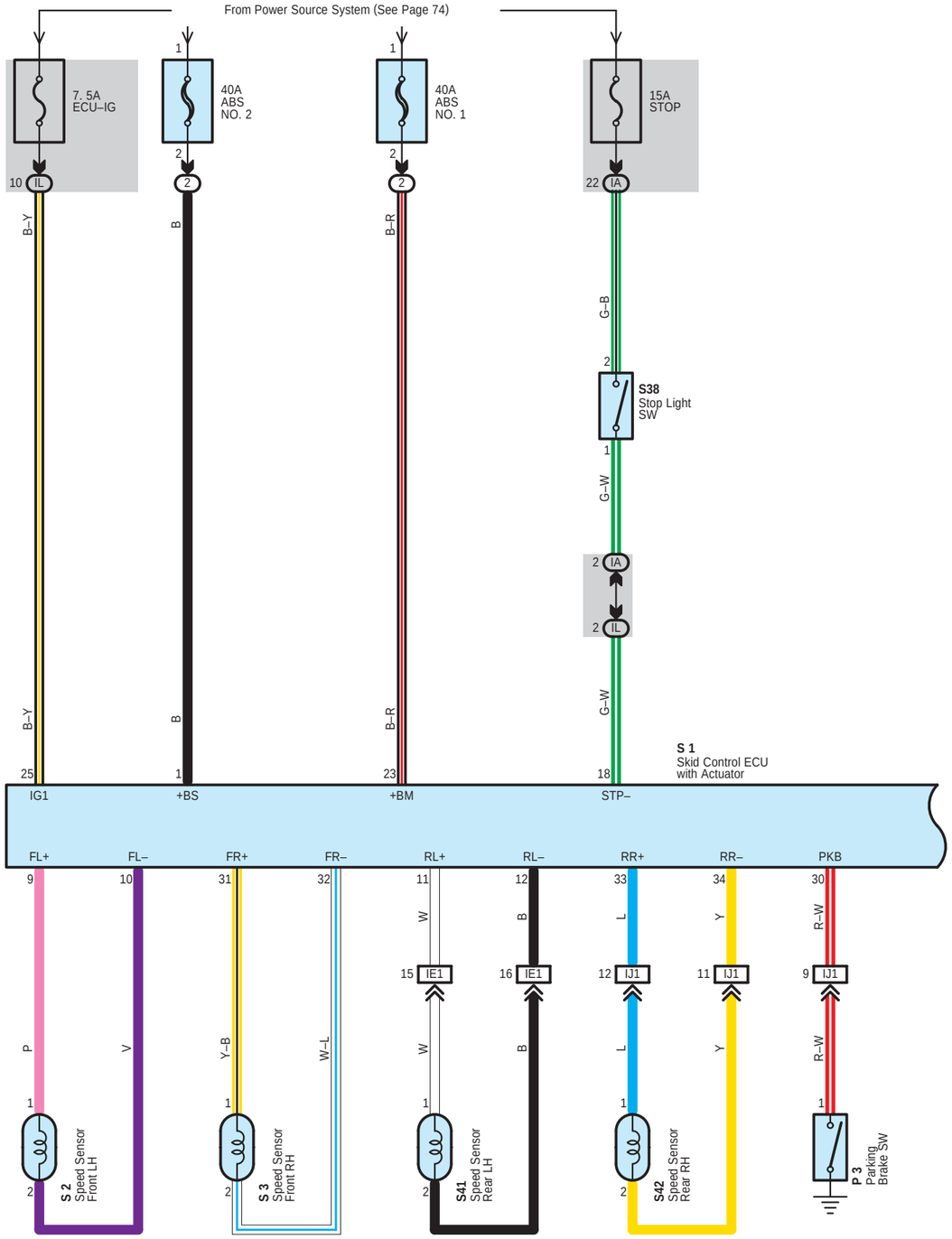

From Power Source System (See Page 74)
SB(V)
W–R
B
B–W
L–W
P–L
(*1)
7. 5A GAUGE
7 IB
SB(B–R)
3 3F
4 3H
SB(V)
72
19
J16
Junction Connector
60
55
V
B–R
W–R
28
21
1
C 8
Combination Meter
Speedometer
20
40
27
W–B
W–B
W–G
Skid Control ECU with Actuator
1 B
1 A
S26(A), S27(B)
Short Connector
R
4 IC1
R
8 BC1
W(*1)
R(*2)
1 BE1
R
3
B12
Back Door Lock Motor
M
4
W–B
2 BA1
4 BA1
L–W
P–L
(*1)
5 A
2 A (*1)
1 B (*2)
M
1 A
3 A (*1)
2 B (*2)
D16(A)
Door Lock Motor Rear LH
D23(B)
Door Unlock Detection SW Rear LH
Door Lock Motor Rear LH
W–B
(*1)
B–W
1 BA1
9 BA1
B–W
W–B
(*1)
W–B
W–B
A
J32
Junction Connector
BC
BF

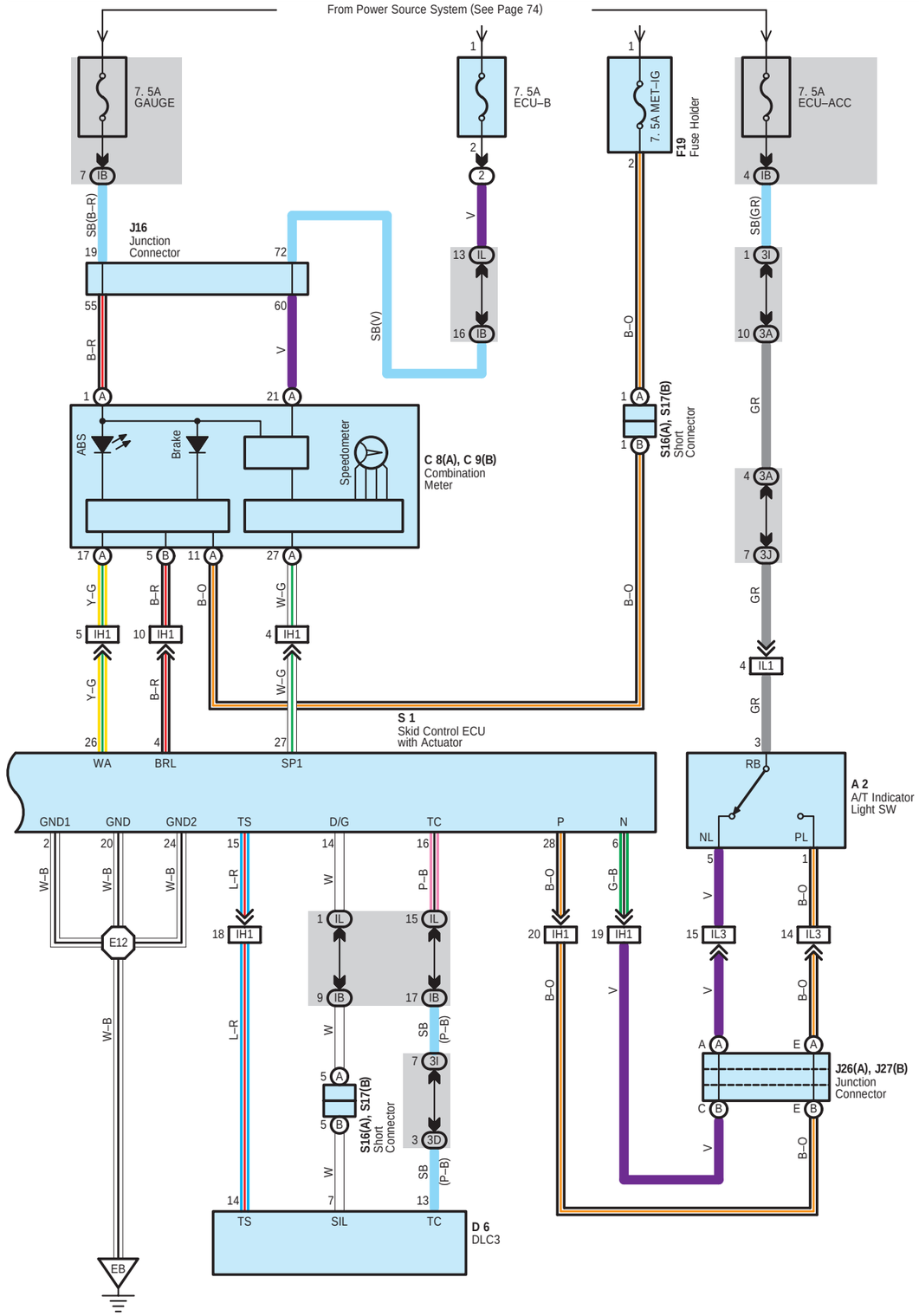
ABS (LHD)


From Power Source System (See Page 74)
7. 5A
ECU–IG
40A
ABS
NO. 2
40A
ABS
NO. 1
15A
STOP
10 IL
22 IA
B–Y
B
B–R
G–B
I B
J23(A), J24(B)
Junction
Connector
D A
G–B
2
S38
Stop Light
SW
1
G–W
B
J31
Junction
Connector
B
G–W
S 1
Skid Control ECU
with Actuator
25 IG1
1 +BS
23 +BM
18 STP–
FL+ FL– FR+ FR– RL+ RL– RR+ RR– PKB
9 10 31 32 11 12 33 34 30
P V Y–B W–L W B L Y R–W
1 2
S 2
Speed Sensor
Front LH
S 3
Speed Sensor
Front RH
15 IE1 16 IE1
S41
Speed Sensor
Rear LH
12 IJ1 11 IJ1
S42
Speed Sensor
Rear RH
9 IJ1
P 3
Parking
Brake SW

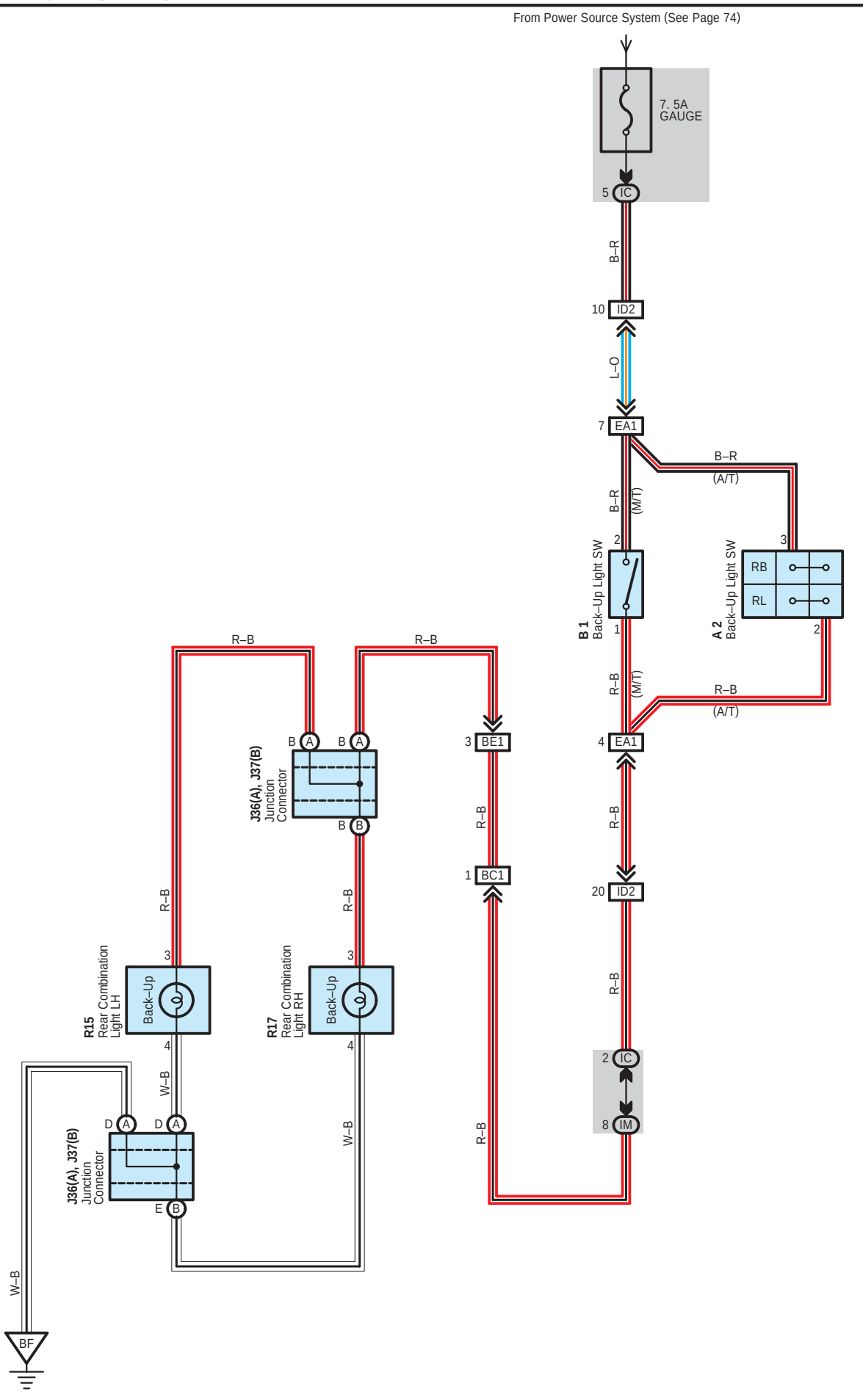

From Power Source System (See Page 74)
7. 5A
GAUGE
7. 5A
ECU–B
7. 5A MET–IG
F19
Fuse Holder
7 IB
5 IC
2
B–R
V
B–R
SB
(B–R)
65
J16
Junction
Connector
53
B–R
1 A
67
J16
Junction
Connector
55
V
21 A
SB(V)
13 IL
16 IB
B–O
10 ID2
L–O
7 EA1
B–R
3
RB
NL
PL
A 2
A/T Indicator
Light SW
S43(A), S44(B)
Short Connector
J 5(A), J 6(B)
Junction Connector
ABS
Brake
Speedometer
C 8(A), C 9(B)
Combination
Meter
17 A
5 B
11 A
27 A
Y–G
B–R
B–O
W–G
5 IH1
10 IH1
4 IH1
B–O
16 IL3
17 IL3
V
B–O
S 1
Skid Control ECU with Actuator
26 WA
4 BRL
27 SP1
D A
E A
J11(A), J12(B)
Junction
Connector
F B
E B
GND1 GND GND2 TS D/G TC P N
2 20 24 15 14 16 28 6
W–B W–B W–B L–R W P–B B–O G–B
E 1
7 ID2
1 IL
15 IL
9 IB
17 IB
20 IH1
19 IH1
V
B–O
L–R
SB(W)
SB(P–B)
2 A
1 A
S16(A), S17(B)
Short
Connector
2 B
1 B
W
P–B
W–B
14 7 13
TS SIL TC
D 6
DLC3
EB

ABS (RHD)

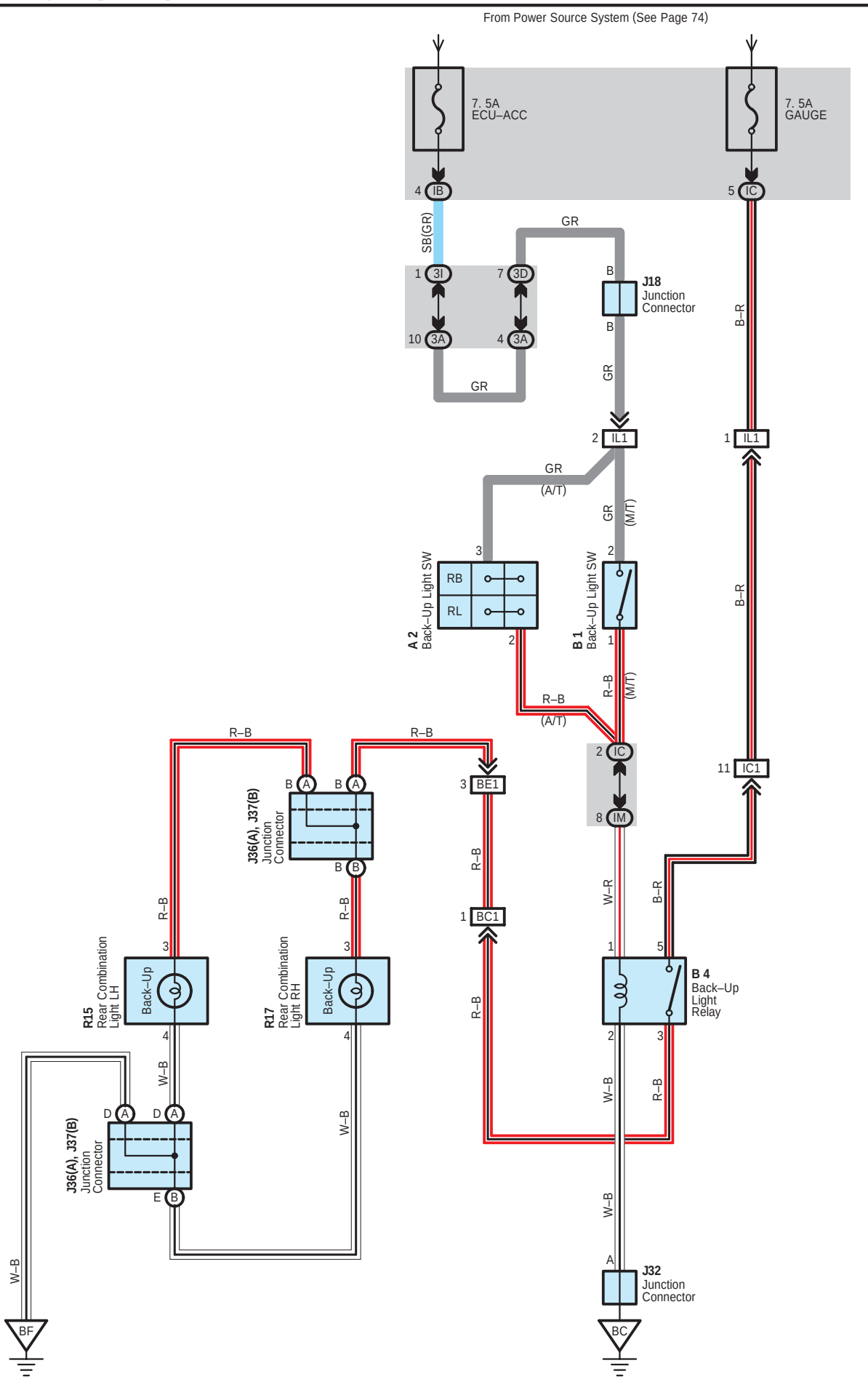

From Power Source System (See Page 74)
7. 5A ECU–IG
40A ABS NO. 2
40A ABS NO. 1
15A STOP
S38 Stop Light SW
S 1 Skid Control ECU with Actuator
IG1
+BS
+BM
STP–
S 2 Speed Sensor Front LH
S 3 Speed Sensor Front RH
S41 Speed Sensor Rear LH
S42 Speed Sensor Rear RH
P 3 Parking Brake SW
FL+
FL–
FR+
FR–
RL+
RL–
RR+
RR–
PKB


From Power Source System (See Page 74)
7. 5A GAUGE
7. 5A ECU–B
7. 5A MET–IG
F19 Fuse Holder
7. 5A ECU–ACC
J16 Junction Connector
C 8(A), C 9(B) Combination Meter
ABS
Brake
Speedometer
S16(A), S17(B) Short Connector
S 1 Skid Control ECU with Actuator
A 2 A/T Indicator Light SW
J26(A), J27(B) Junction Connector
D 6 DLC3
WA
BRL
SP1
GND1
GND
GND2
TS
D/G
TC
P
N
SIL

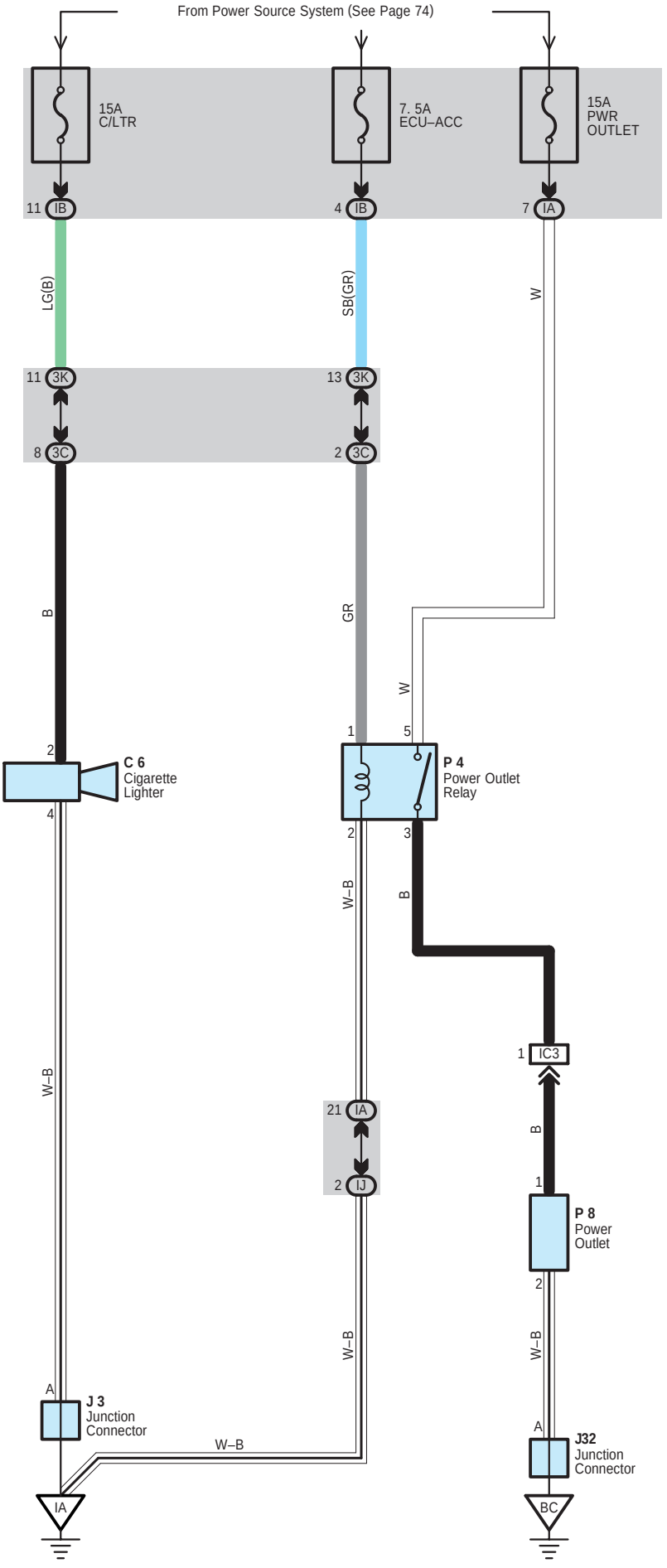
Back–Up Light (LHD)



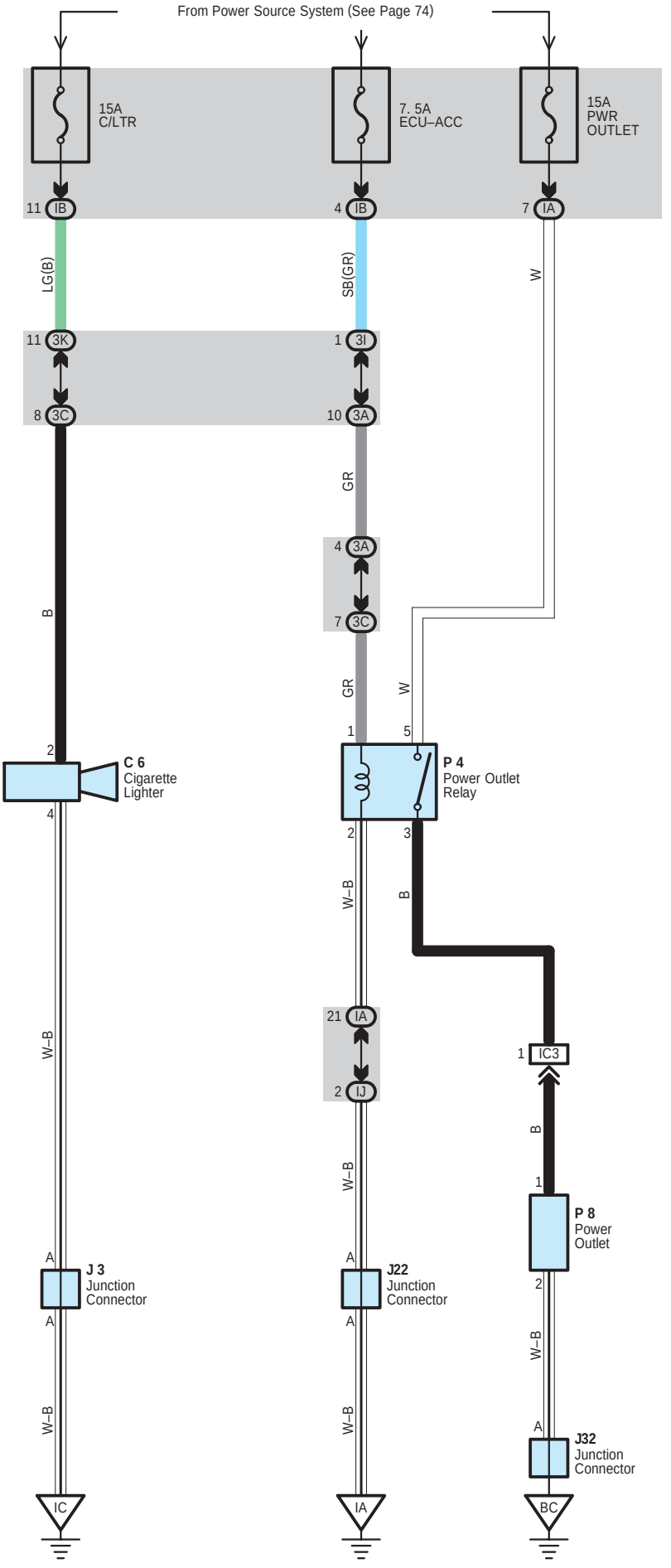
Back–Up Light (RHD)



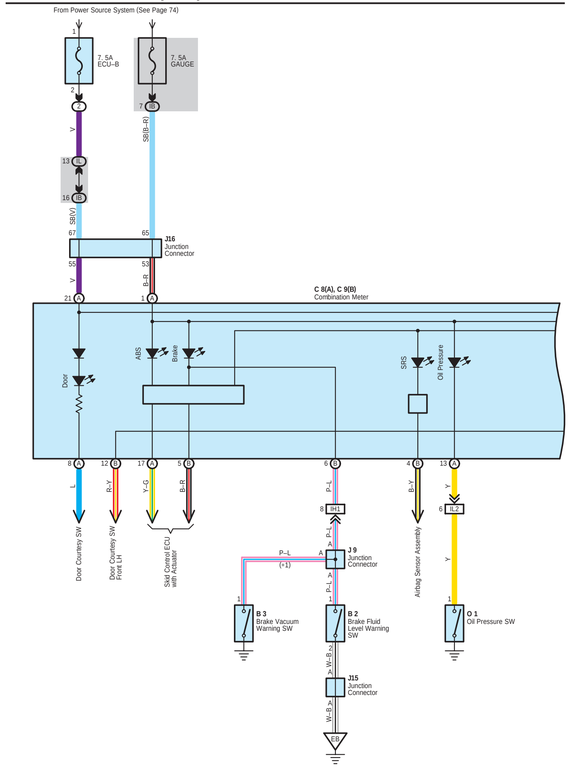
Cigarette Lighter and Power Outlet (LHD)

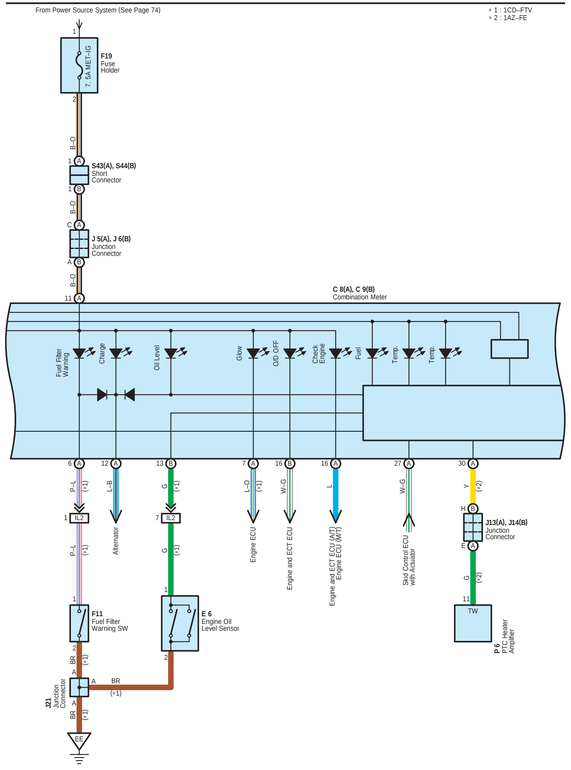


Cigarette Lighter and Power Outlet (RHD)

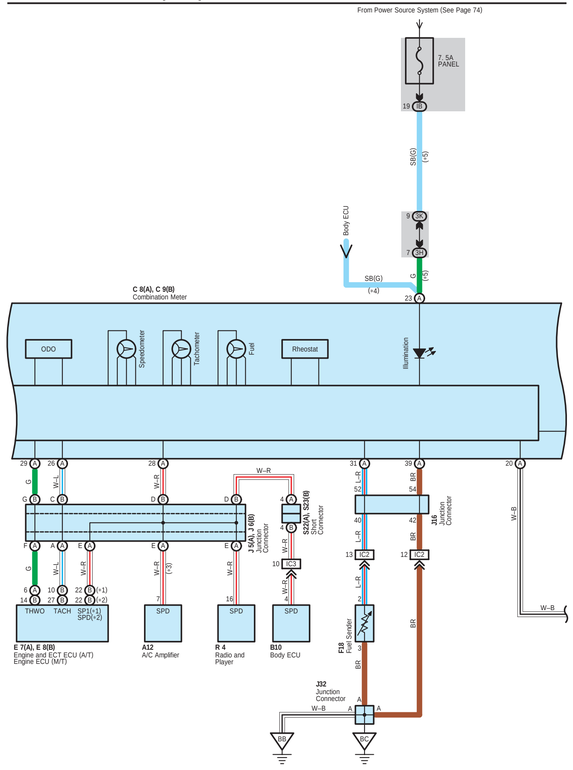


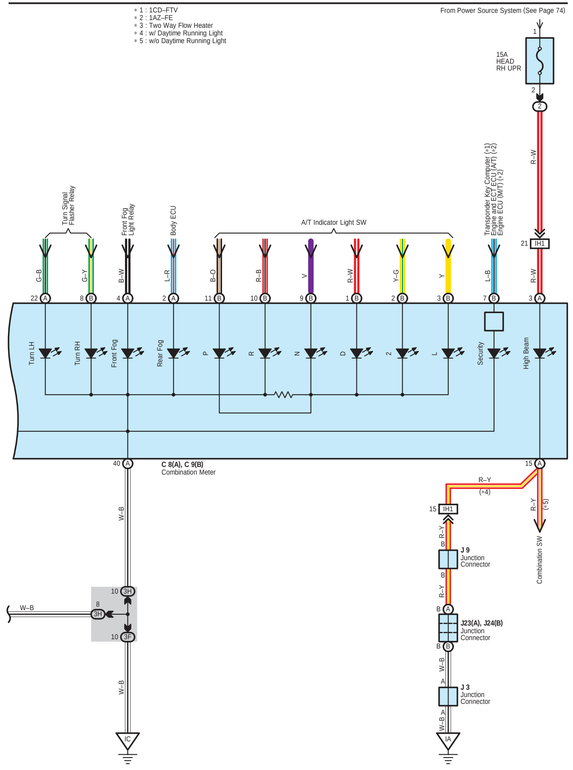
Combination Meter (LHD)



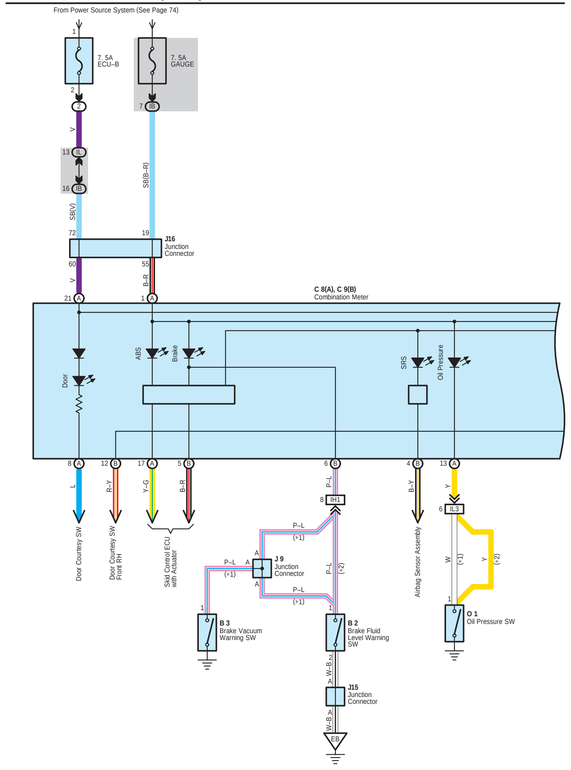


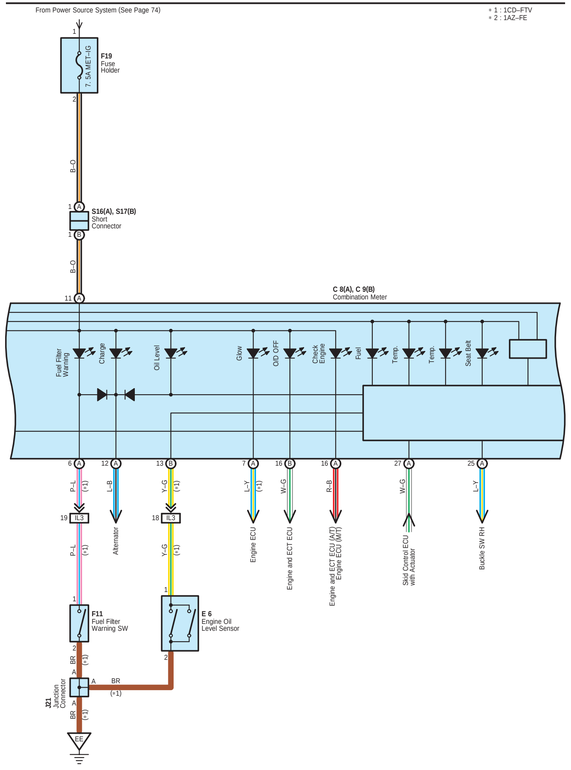
Combination Meter (LHD)



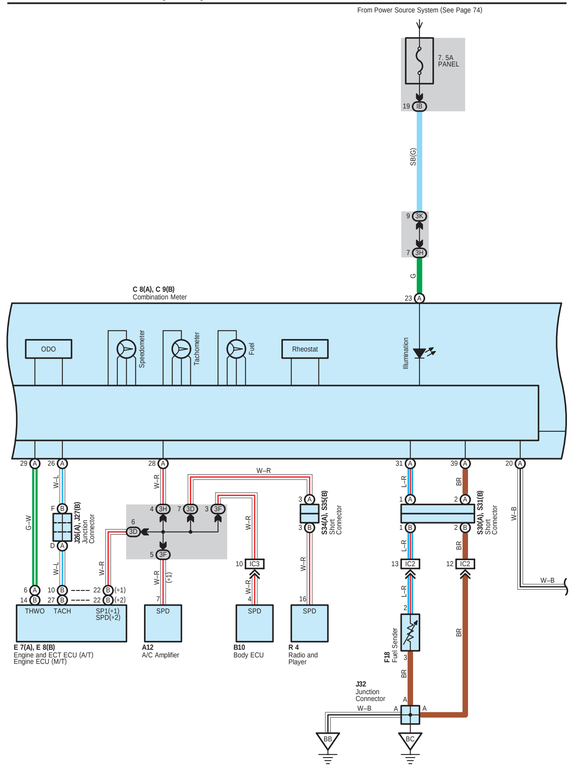


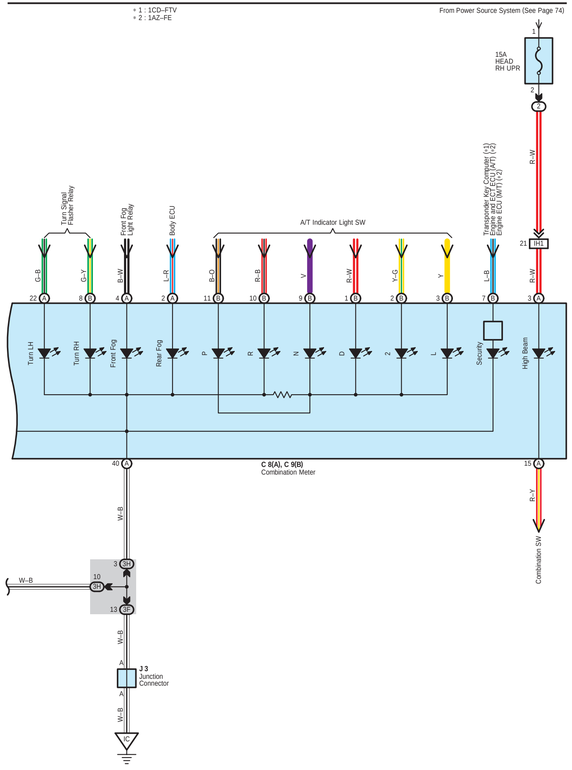
Combination Meter (RHD)

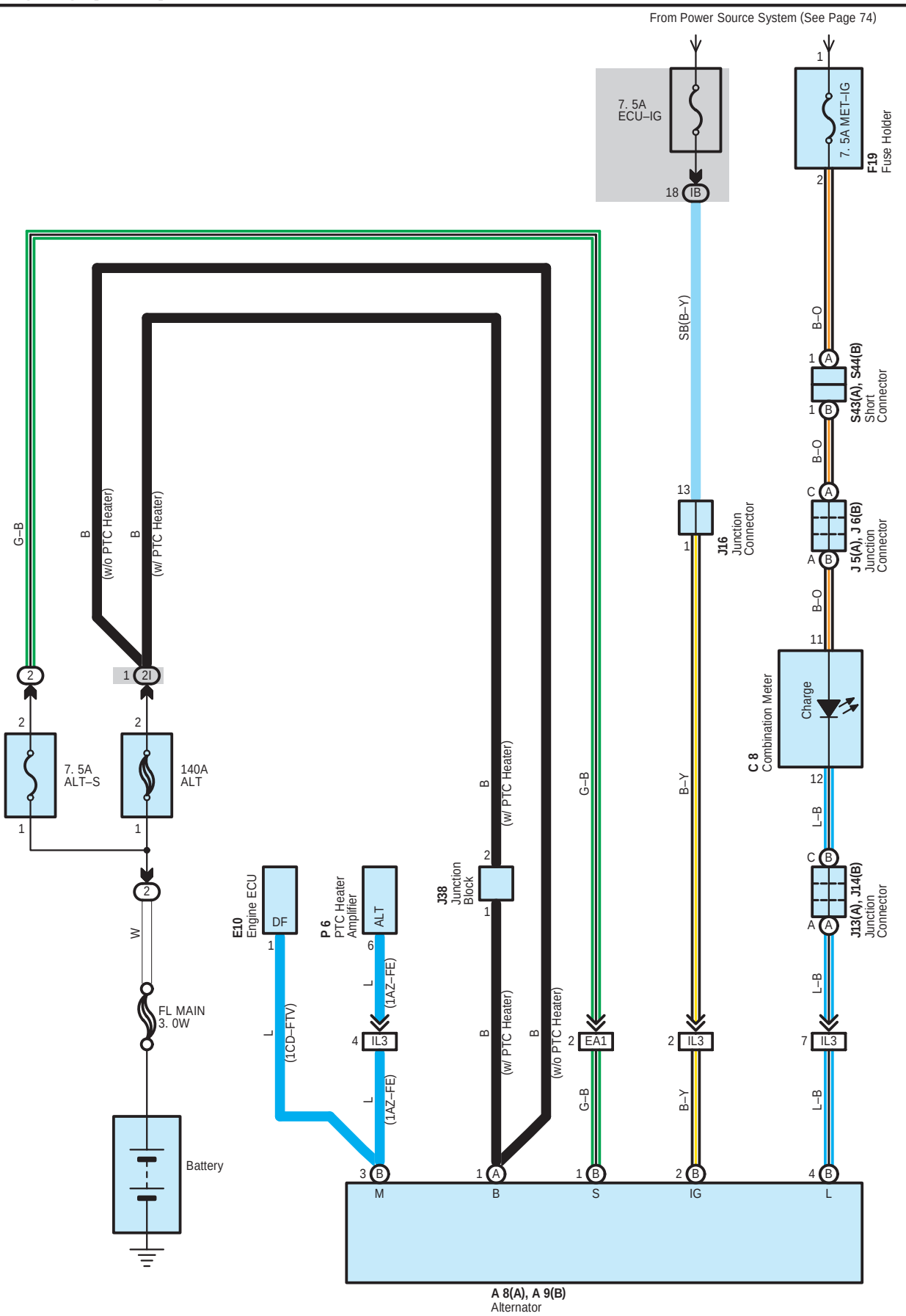




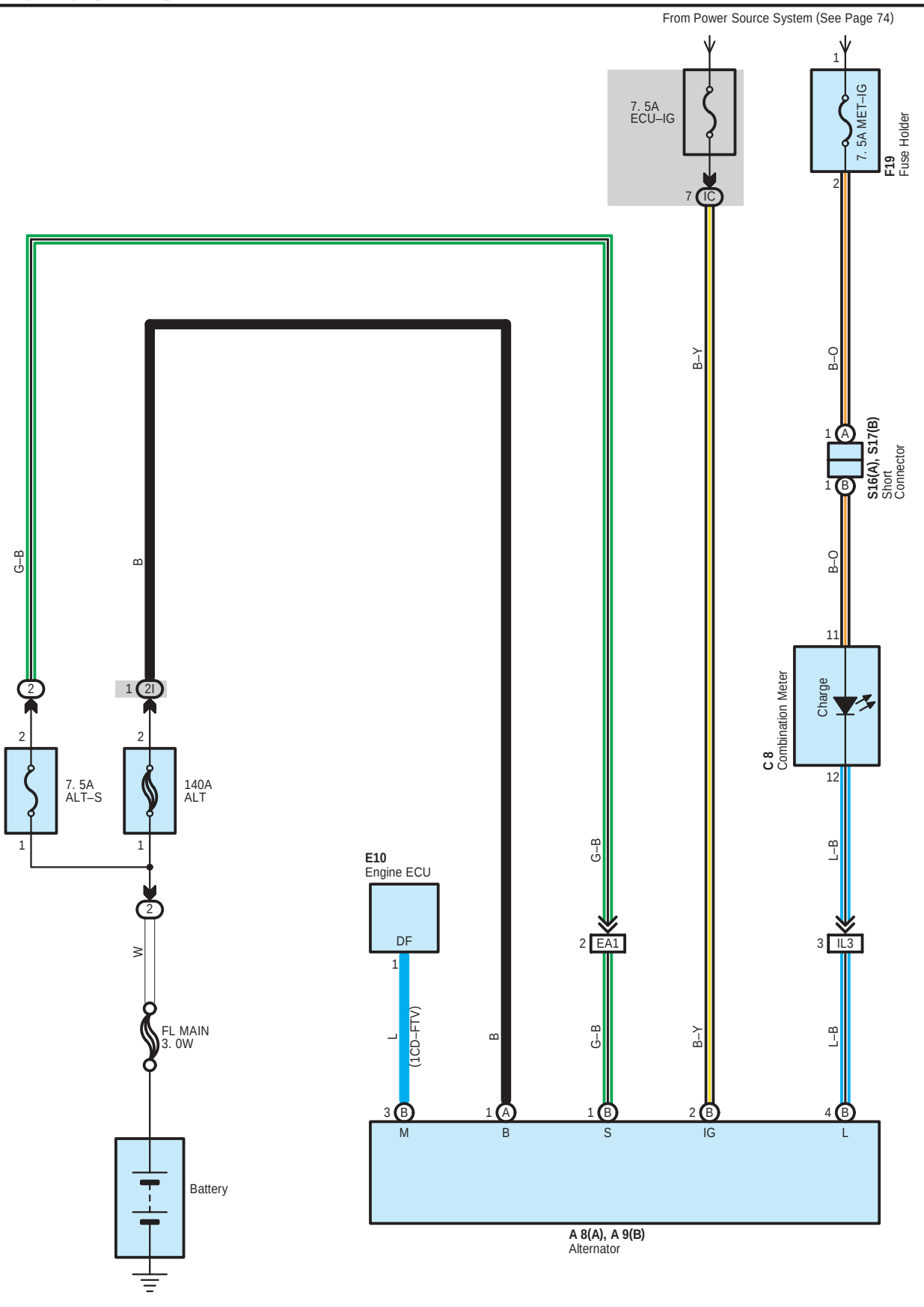
Combination Meter (RHD)



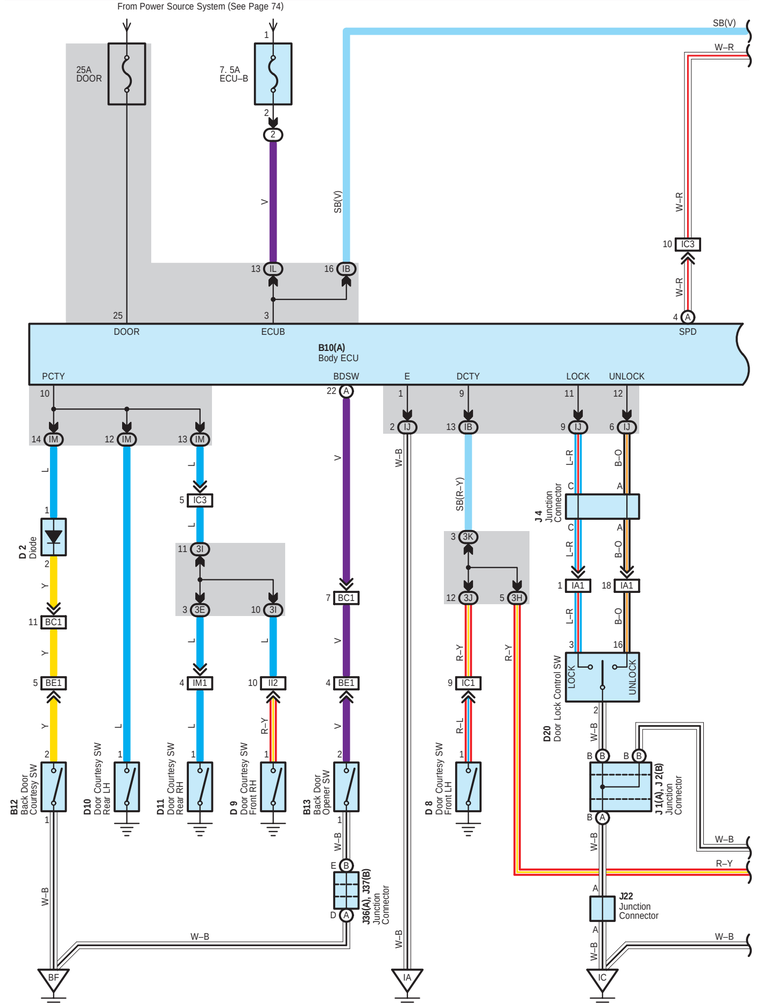


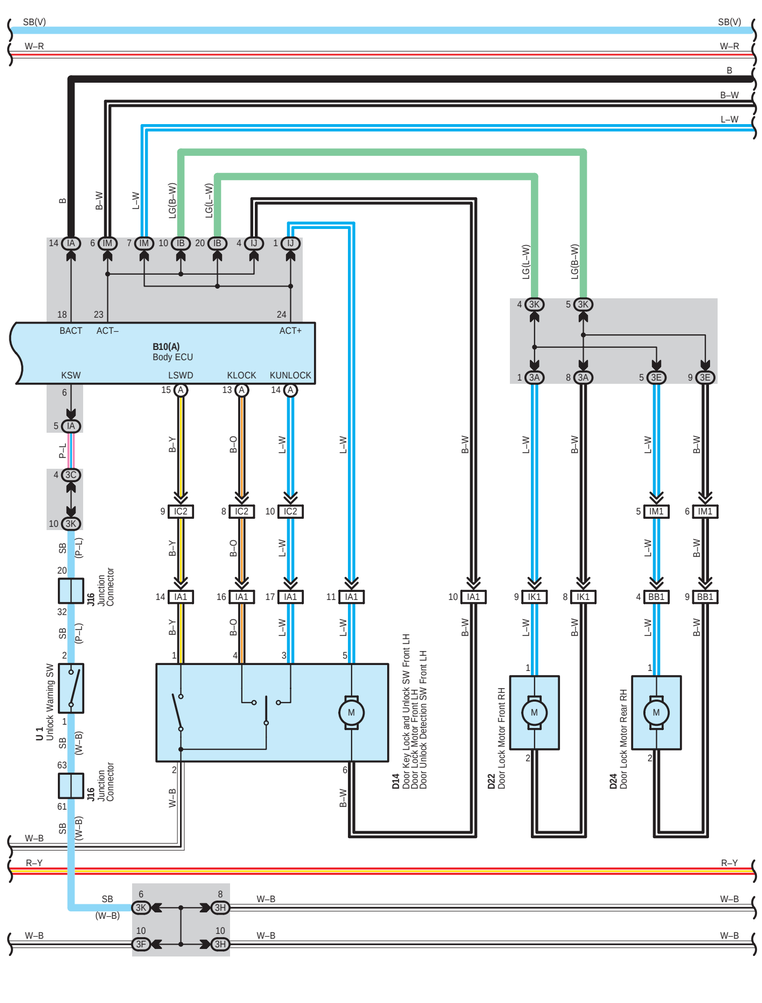

From Power Source System (See Page 74)
7. 5A
ECU–IG
18 IB
1
7. 5A MET–IG
2
F19
Fuse Holder
SB(B–Y)
B–O
1 A
1 B
S43(A), S44(B)
Short
Connector
B–O
C A
A B
J 5(A), J 6(B)
Junction
Connector
B–O
11
C 8
Combination Meter
Charge
12
L–B
C B
A A
J13(A), J14(B)
Junction
Connector
L–B
7 IL3
4 B
L
13
1
J16
Junction
Connector
B–Y
2 IL3
2 B
IG
B–Y
G–B
2 EA1
1 B
S
G–B
B
(w/o PTC Heater)
B
(w/ PTC Heater)
G–B
2
2
7. 5A
ALT–S
1
1 2I
2
140A
ALT
1
2
W
FL MAIN
3. 0W
Battery
E10
Engine ECU
DF
1
L
(1CD–FTV)
P 6
PTC Heater
Amplifier
ALT
6
L
(1AZ–FE)
4 IL3
L
(1AZ–FE)
3 B
M
J38
Junction
Block
2
1
B
(w/ PTC Heater)
B
(w/ PTC Heater)
1 A
B
B
(w/o PTC Heater)
A 8(A), A 9(B)
Alternator

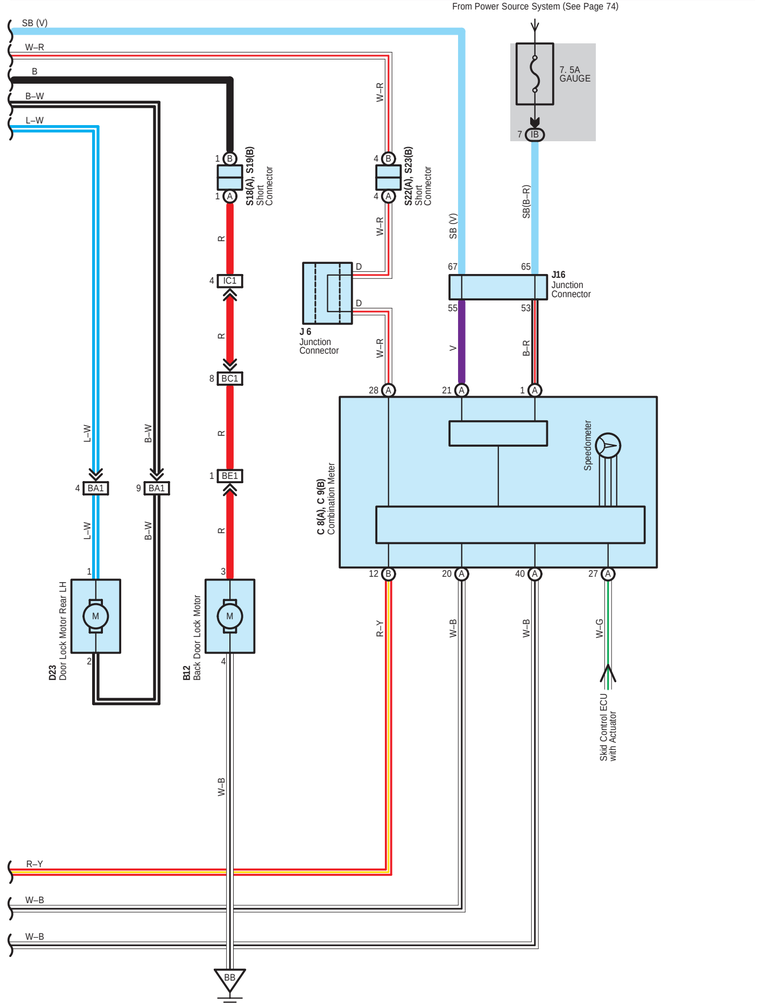
Charging (RHD)



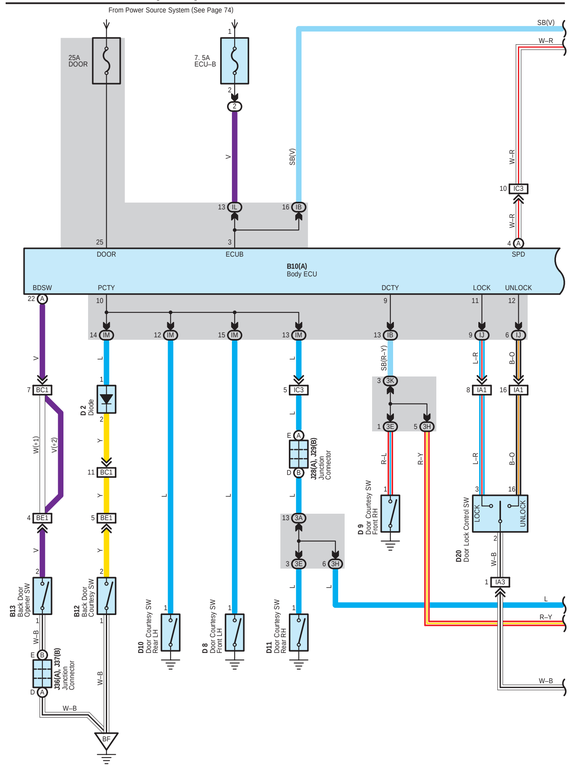
Door Lock Control (LHD)

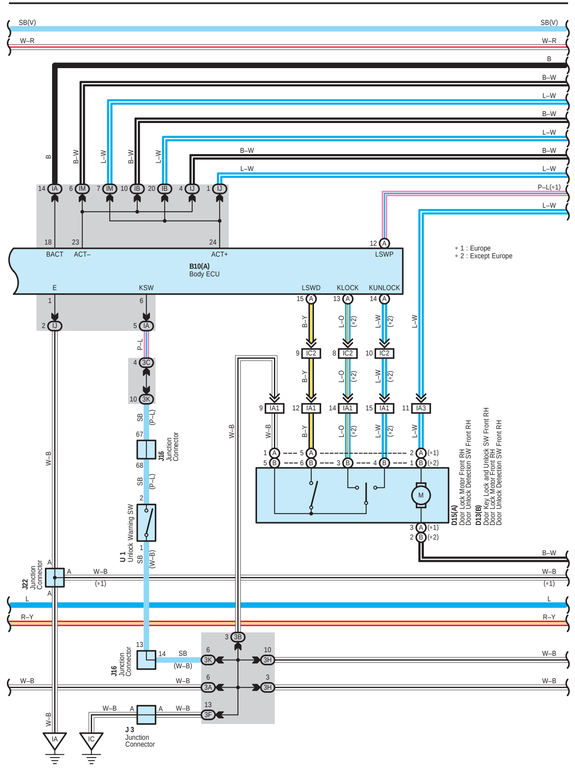




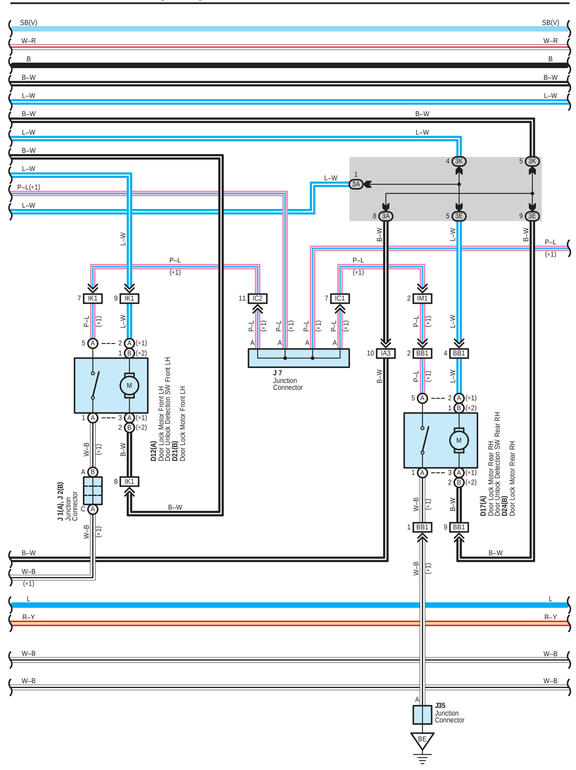


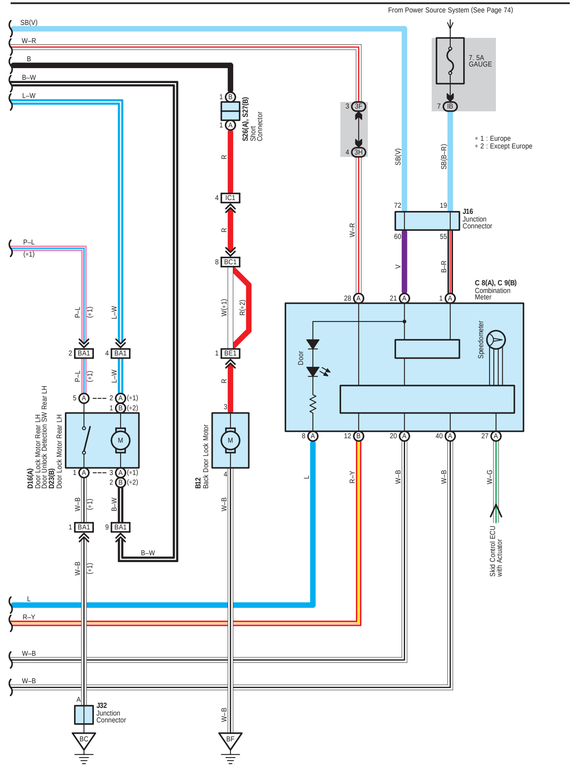
Door Lock Control (RHD)



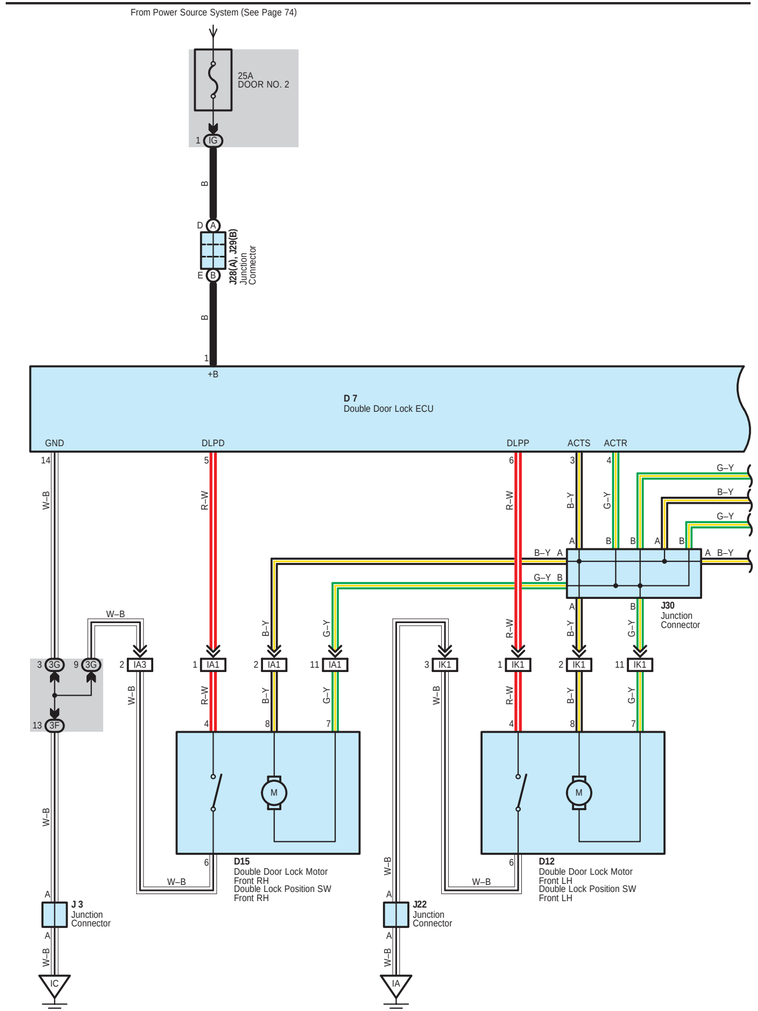


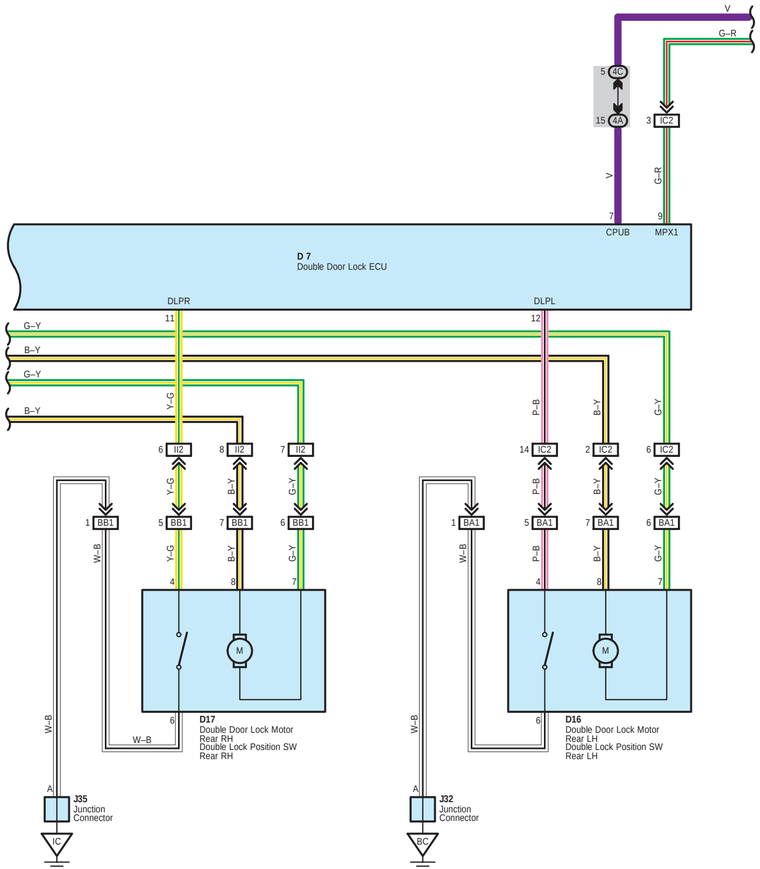
Door Lock Control (RHD)

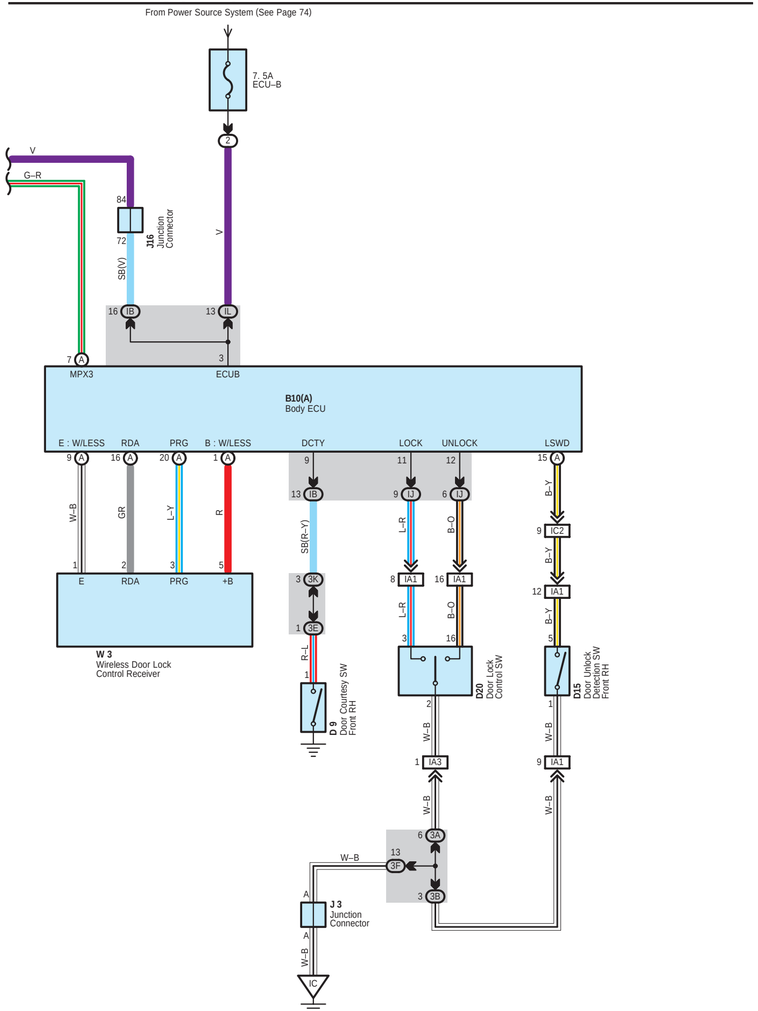




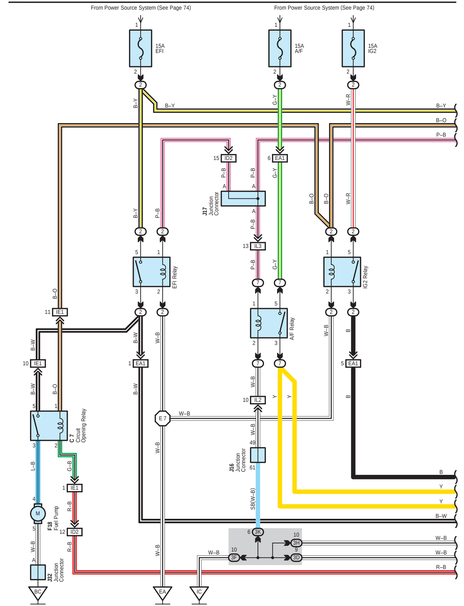
Double Locking (RHD)

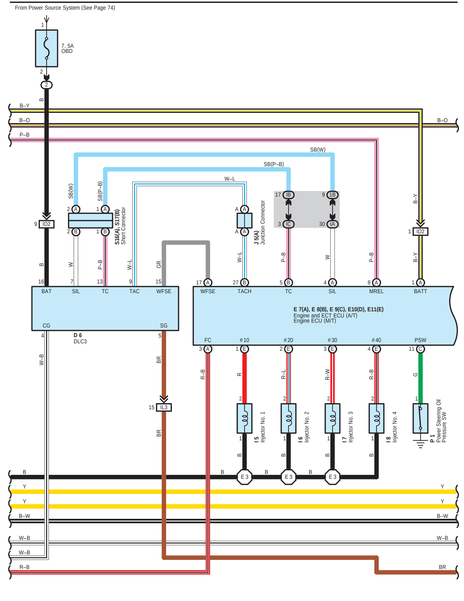




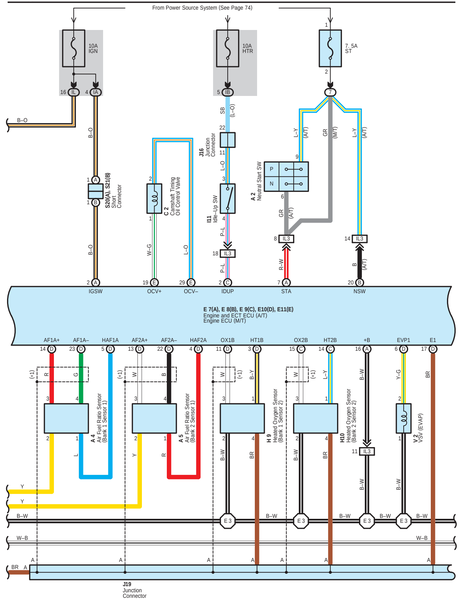


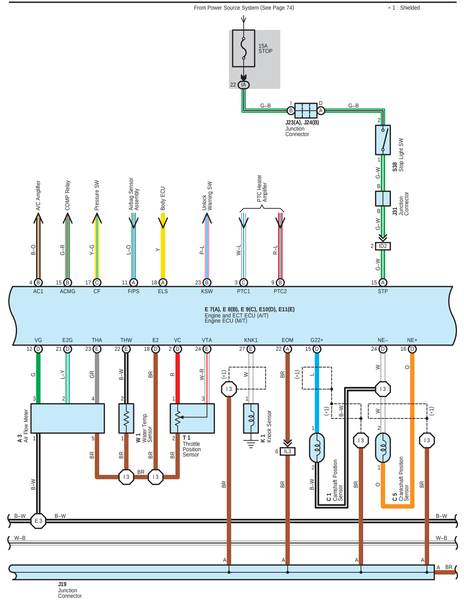
Engine Control (LHD 1AZ–FE)



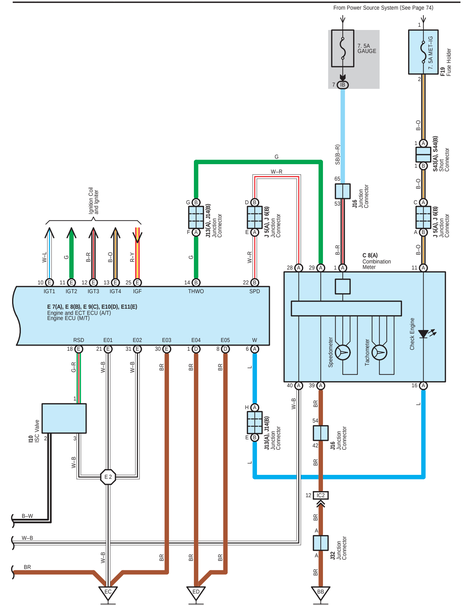


Engine Control (LHD 1AZ–FE)

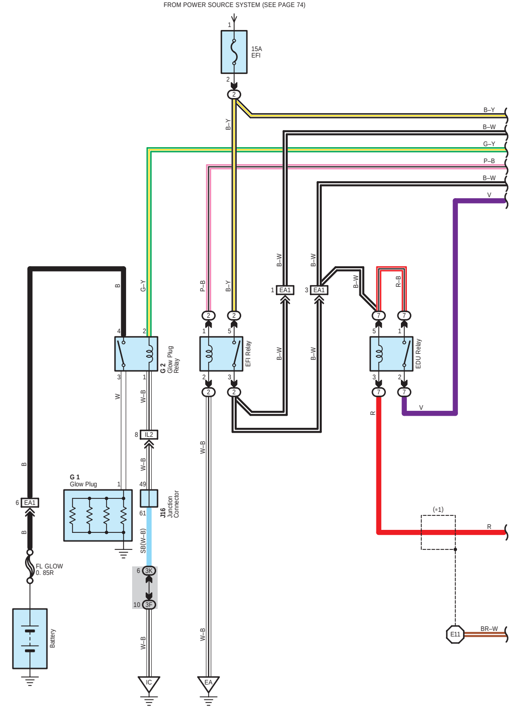


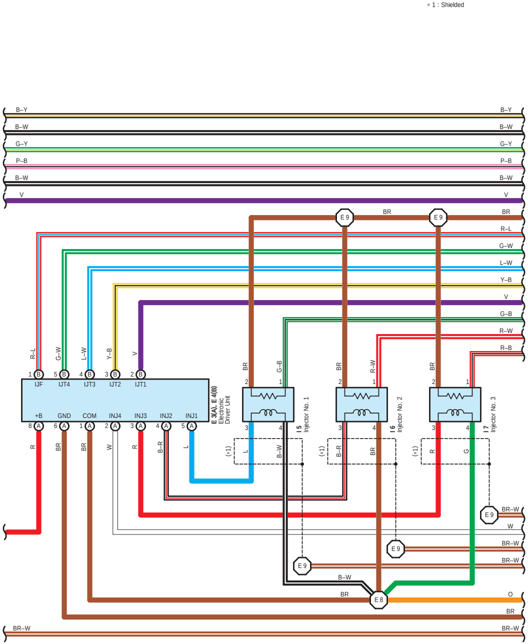


Engine Control (LHD 1AZ–FE)



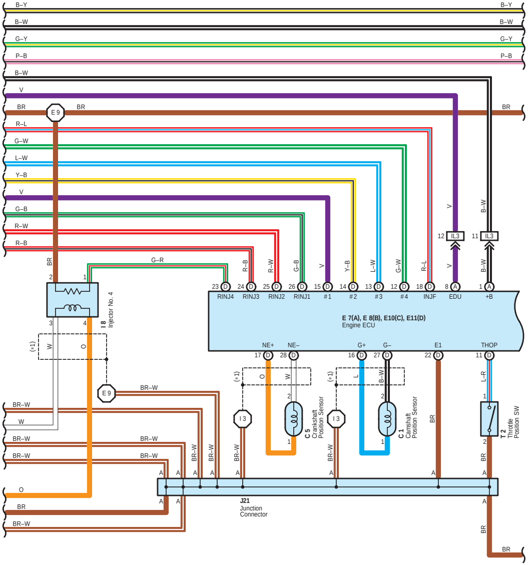
Engine Control (LHD 1CD–FTV)

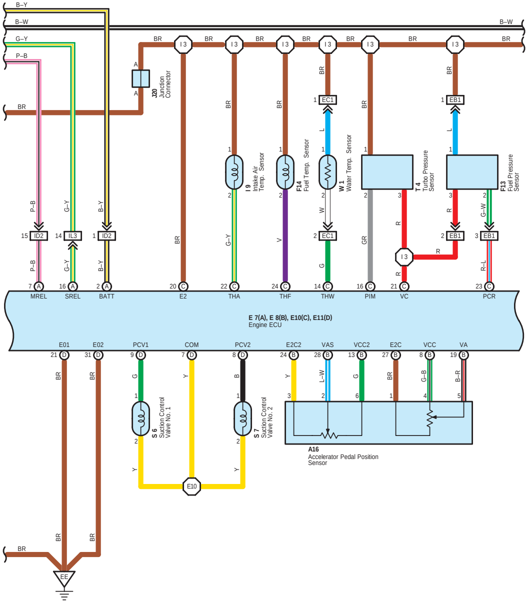

FROM POWER SOURCE SYSTEM (SEE PAGE 74)
15A
EFI
B–Y
B–W
G–Y
P–B
B–W
V
G 2
Glow Plug
Relay
EFI Relay
EDU Relay
EA1
IL2
J16
Junction
Connector
SB(W–B)
3K
3F
G 1
Glow Plug
FL GLOW
0. 85R
Battery
W–B
W
B
R
R–B
(∗1)
E11
BR–W
IC
EA


∗ 1 : Shielded
B–Y
B–W
G–Y
P–B
B–W
V
BR
E 9
R–L
G–W
L–W
Y–B
V
G–B
R–W
R–B
IJF
IJT4
IJT3
IJT2
IJT1
+B
GND
COM
INJ4
INJ3
INJ2
INJ1
E 3(A), E 4(B)
Electronic
Driver Unit
I 5
Injector No. 1
I 6
Injector No. 2
I 7
Injector No. 3
(∗1)
L
B–W
B–R
BR
R
G
BR–W
W
E 8
O
BR
BR–W

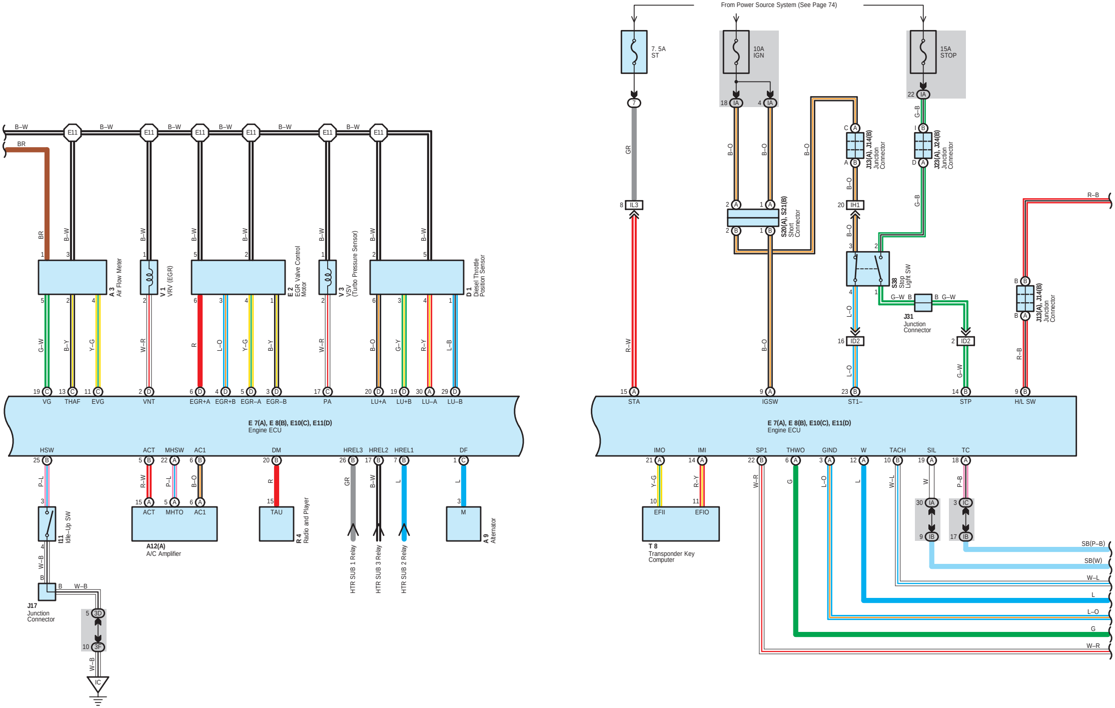
Engine Control (LHD 1CD–FTV)

∗ 1 : Shielded

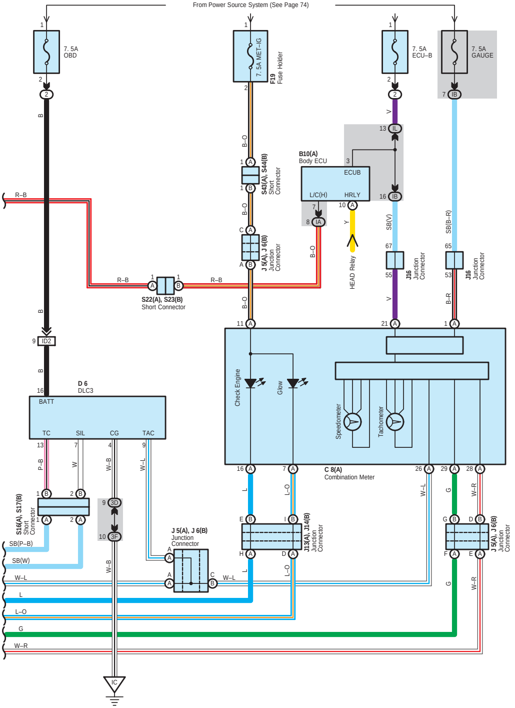

B–Y
B–W
G–Y
P–B
B–W
V
BR
E 9
R–L
G–W
L–W
Y–B
V
G–B
R–W
R–B
G–R
I 8
Injector No. 4
(∗1)
W
O
E 9
BR–W
W
BR–W
BR–W
O
BR
BR–W
RINJ4
RINJ3
RINJ2
RINJ1
#1
#2
#3
#4
INJF
EDU
+B
IL3
E 7(A), E 8(B), E10(C), E11(D)
Engine ECU
NE+
NE–
G+
G–
E1
THOP
C 5
Crankshaft Position Sensor
C 1
Camshaft Position Sensor
I 3
T 2
Throttle Position SW
J21
Junction Connector
L–R


B–Y
B–W
G–Y
P–B
BR
I 3
J20
Junction Connector
I 9
Intake Air Temp. Sensor
F14
Fuel Temp. Sensor
W 1
Water Temp. Sensor
T 4
Turbo Pressure Sensor
F13
Fuel Pressure Sensor
EC1
EB1
ID2
IL3
MREL
SREL
BATT
E2
THA
THF
THW
PIM
VC
PCR
E 7(A), E 8(B), E10(C), E11(D)
Engine ECU
E01
E02
PCV1
COM
PCV2
E2C2
VAS
VCC2
E2C
VCC
VA
S 6
Suction Control Valve No. 1
S 7
Suction Control Valve No. 2
E10
A16
Accelerator Pedal Position Sensor
EE

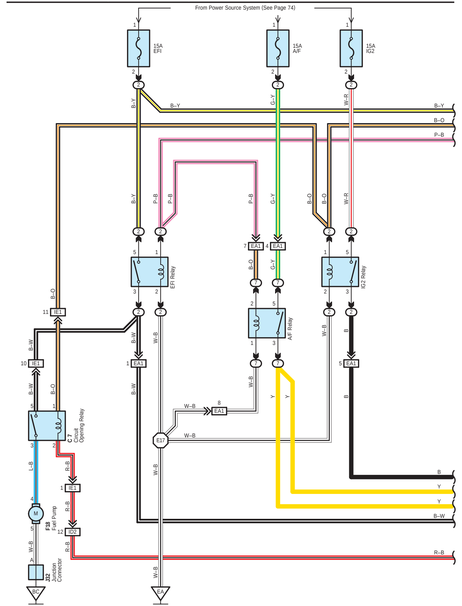
Engine Control (LHD 1CD–FTV)

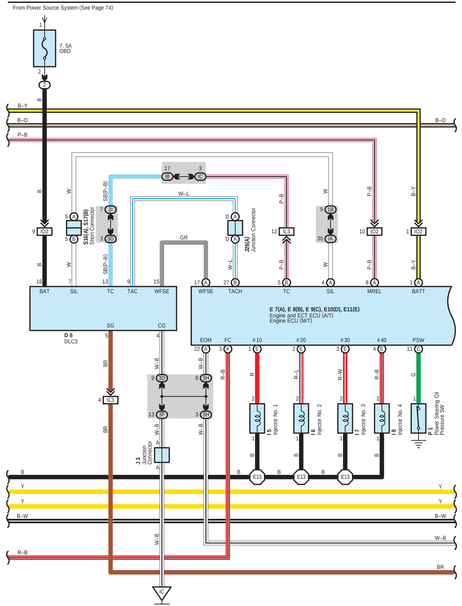

From Power Source System (See Page 74)
7. 5A
ST
10A
IGN
15A
STOP
B–W
BR
E11
A 3
Air Flow Meter
V 1
VRV (EGR)
E 2
EGR Valve Control Motor
V 3
VSV
(Turbo Pressure Sensor)
D 1
Diesel Throttle Position Sensor
G–W
B–Y
Y–G
W–R
R
L–O
Y–G
B–Y
W–R
B–O
G–Y
R–Y
L–B
VG
THAF
EVG
VNT
EGR+A
EGR+B
EGR–A
EGR–B
PA
LU+A
LU+B
LU–A
LU–B
E 7(A), E 8(B), E10(C), E11(D)
Engine ECU
HSW
ACT
MHSW
AC1
DM
HREL3
HREL2
HREL1
DF
P–L
R–W
P–L
B–O
R
GR
B–W
L
L
I11
Idle–Up SW
ACT
MHTO
AC1
A12(A)
A/C Amplifier
TAU
R 4
Radio and Player
HTR SUB 1 Relay
HTR SUB 3 Relay
HTR SUB 2 Relay
M
A 9
Alternator
W–B
J17
Junction Connector
3D
3F
IC
GR
IL3
R–W
B–O
S20(A), S21(B)
Short Connector
J13(A), J14(B)
Junction Connector
J23(A), J24(B)
Junction Connector
G–B
IH1
S38
Stop Light SW
G–W
B–W
J31
Junction Connector
L–O
ID2
R–B
STA
IGSW
ST1–
STP
H/L SW
IMO
IMI
SP1
THWO
GIND
W
TACH
SIL
TC
Y–G
R–Y
W–R
G
L–O
L
W–L
W
P–B
EFII
EFIO
T 8
Transponder Key Computer
IA
IB
IC
SB(P–B)
SB(W)
W–L
L
L–O
G
W–R

Engine Control (LHD 1CD–FTV)

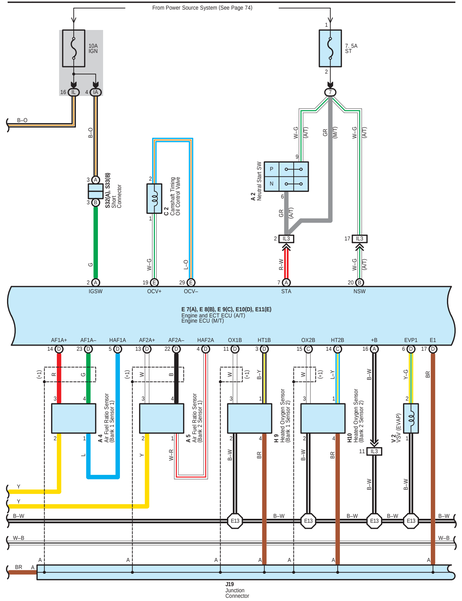

From Power Source System (See Page 74)
7. 5A OBD
7. 5A MET–IG
F19 Fuse Holder
7. 5A ECU–B
7. 5A GAUGE
B
B–O
V
SB(V)
SB(B–R)
R–B
S43(A), S44(B) Short Connector
B10(A) Body ECU
ECUB
L/C(H)
HRLY
IL
IB
IA
Y
HEAD Relay
J 5(A), J 6(B) Junction Connector
J16 Junction Connector
S22(A), S23(B) Short Connector
ID2
D 6 DLC3
BATT
TC
SIL
CG
TAC
P–B
W
W–B
W–L
3D
3F
S16(A), S17(B) Short Connector
SB(P–B)
SB(W)
L
L–O
G
W–R
IC
Check Engine
Glow
Speedometer
Tachometer
C 8(A) Combination Meter
J13(A), J14(B) Junction Connector
B–R

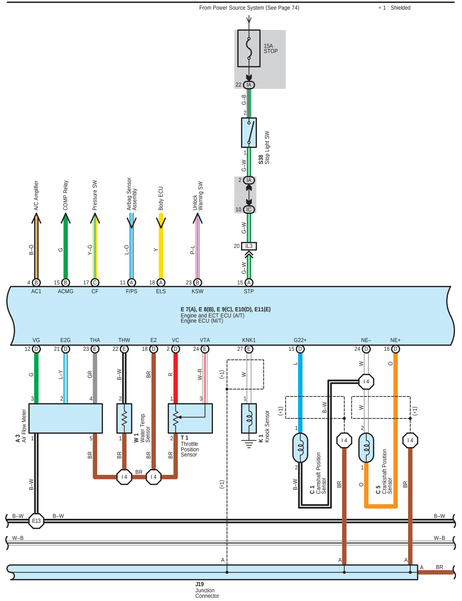
Engine Control (RHD 1AZ–FE)



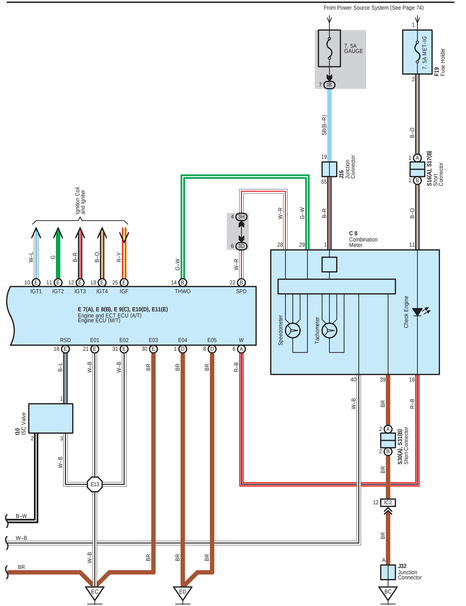


Engine Control (RHD 1AZ–FE)



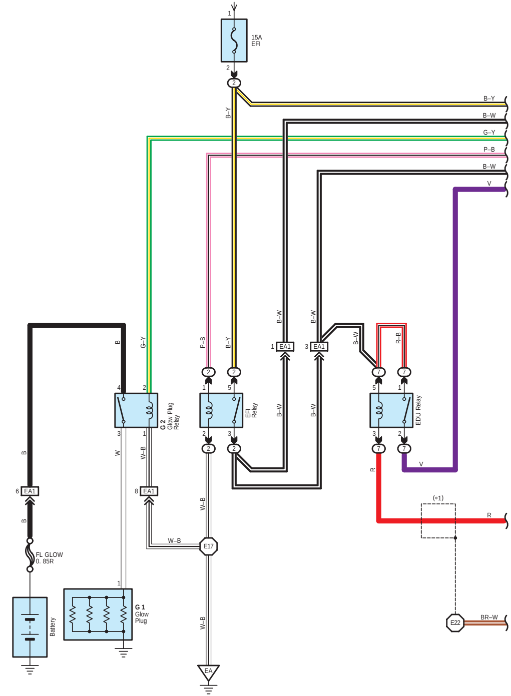


Engine Control (RHD 1AZ–FE)

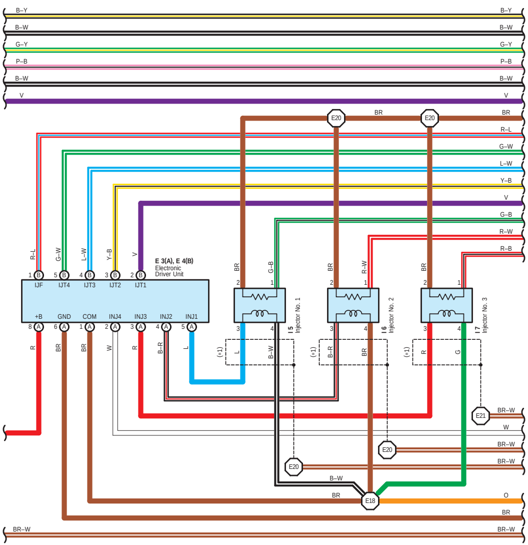


Engine Control (RHD 1CD–FTV)

From Power Source System (See Page 74)

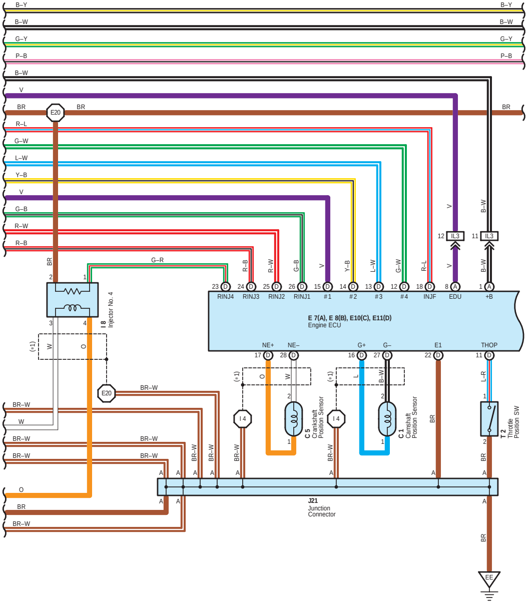

1
15A
EFI
2
B–Y
B–W
G–Y
P–B
B–W
V
G 2
Glow Plug
Relay
EFI
Relay
EDU Relay
EA1
EA1
EA1
EA1
B
G–Y
P–B
B–Y
B–W
B–W
B–W
R–B
W
W–B
R
V
W–B
E17
FL GLOW
0. 85R
Battery
G 1
Glow
Plug
EA
(＊1)
R
E22
BR–W

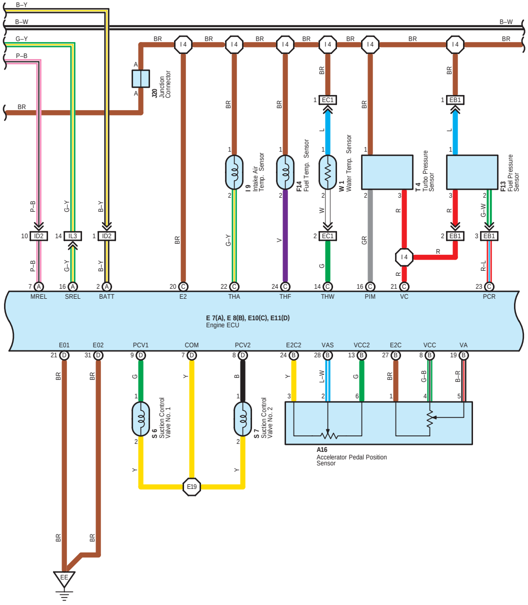
＊1 : Shielded


B–Y
B–W
G–Y
P–B
B–W
V
BR
E20
E20
R–L
G–W
L–W
Y–B
V
G–B
R–W
R–B
E 3(A), E 4(B)
Electronic
Driver Unit
IJF
IJT4
IJT3
IJT2
IJT1
+B
GND
COM
INJ4
INJ3
INJ2
INJ1
I 5
Injector No. 1
I 6
Injector No. 2
I 7
Injector No. 3
(＊1)
E21
BR–W
W
E20
E20
BR–W
BR–W
B–W
E18
O
BR
BR–W

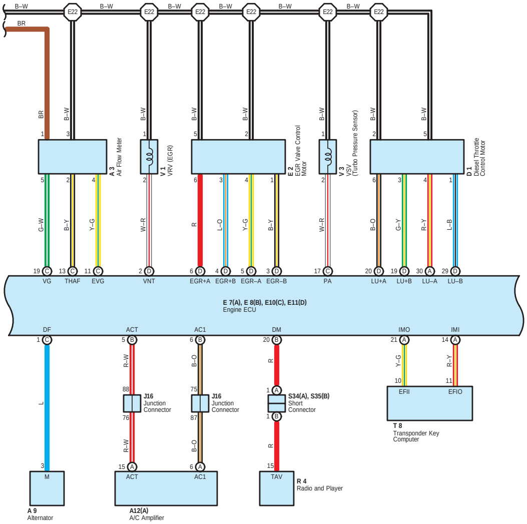
Engine Control (RHD 1CD–FTV)

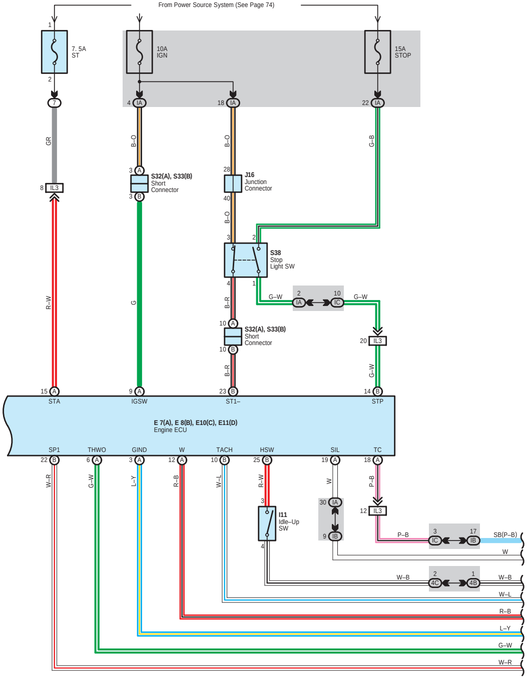
∗ 1 : Shielded


B–Y
B–W
G–Y
P–B
B–W
V
BR
E20
R–L
G–W
L–W
Y–B
V
G–B
R–W
R–B
G–R
I 8
Injector No. 4
(∗1)
W
O
E20
BR–W
W
O
BR
RINJ4
RINJ3
RINJ2
RINJ1
1
2
3
4
INJF
EDU
+B
IL3
E 7(A), E 8(B), E10(C), E11(D)
Engine ECU
NE+
NE–
G+
G–
E1
THOP
I 4
C 5
Crankshaft Position Sensor
C 1
Camshaft Position Sensor
T 2
Throttle Position SW
L–R
J21
Junction Connector
EE

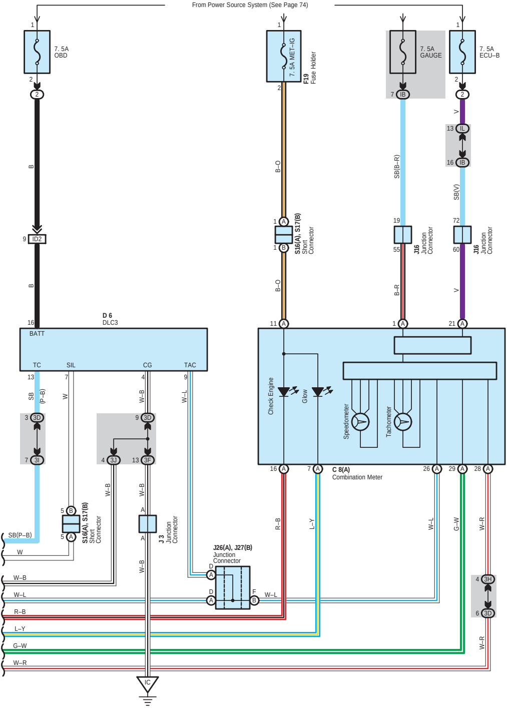

B–Y
B–W
G–Y
P–B
BR
I 4
J20
Junction Connector
I 9
Intake Air Temp. Sensor
F14
Fuel Temp. Sensor
W 1
Water Temp. Sensor
T 4
Turbo Pressure Sensor
F13
Fuel Pressure Sensor
EC1
EB1
ID2
IL3
MREL
SREL
BATT
E2
THA
THF
THW
PIM
VC
PCR
E 7(A), E 8(B), E10(C), E11(D)
Engine ECU
E01
E02
PCV1
COM
PCV2
E2C2
VAS
VCC2
E2C
VCC
VA
S 6
Suction Control Valve No. 1
S 7
Suction Control Valve No. 2
E19
A16
Accelerator Pedal Position Sensor
EE

Engine Control (RHD 1CD–FTV)

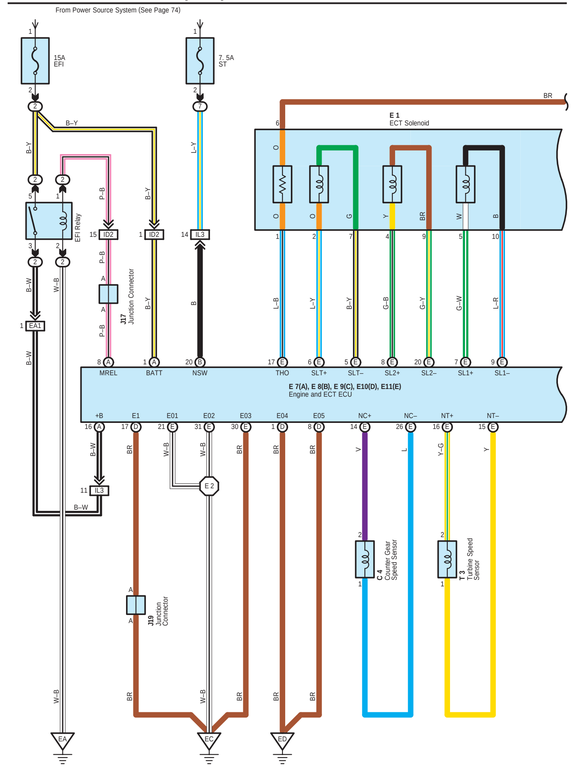

B–W
E22
BR
A 3 Air Flow Meter
V 1 VRV (EGR)
E 2 EGR Valve Control Motor
V 3 VSV (Turbo Pressure Sensor)
D 1 Diesel Throttle Control Motor
G–W
B–Y
Y–G
W–R
R
L–O
L–B
G–Y
R–Y
B–O
VG
THAF
EVG
VNT
EGR+A
EGR+B
EGR–A
EGR–B
PA
LU+A
LU+B
LU–A
LU–B
E 7(A), E 8(B), E10(C), E11(D)
Engine ECU
DF
ACT
AC1
DM
IMO
IMI
L
R–W
J16 Junction Connector
S34(A), S35(B) Short Connector
EFII
EFIO
T 8 Transponder Key Computer
M
A 9 Alternator
A12(A) A/C Amplifier
TAV
R 4 Radio and Player

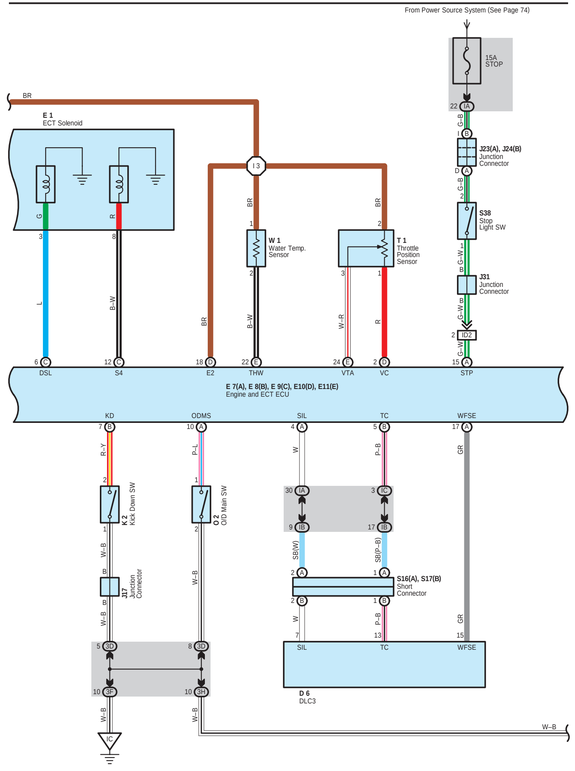

From Power Source System (See Page 74)
7. 5A ST
10A IGN
15A STOP
IA
IL3
GR
B–O
G–B
S32(A), S33(B) Short Connector
J16 Junction Connector
S38 Stop Light SW
G–W
IC
B–R
G
R–W
STA
IGSW
ST1–
STP
E 7(A), E 8(B), E10(C), E11(D)
Engine ECU
SP1
THWO
GIND
W
TACH
HSW
SIL
TC
W–R
L–Y
R–B
W–L
P–B
I11 Idle–Up SW
IB
SB(P–B)
W–B
4C
4B

Engine Control (RHD 1CD–FTV)

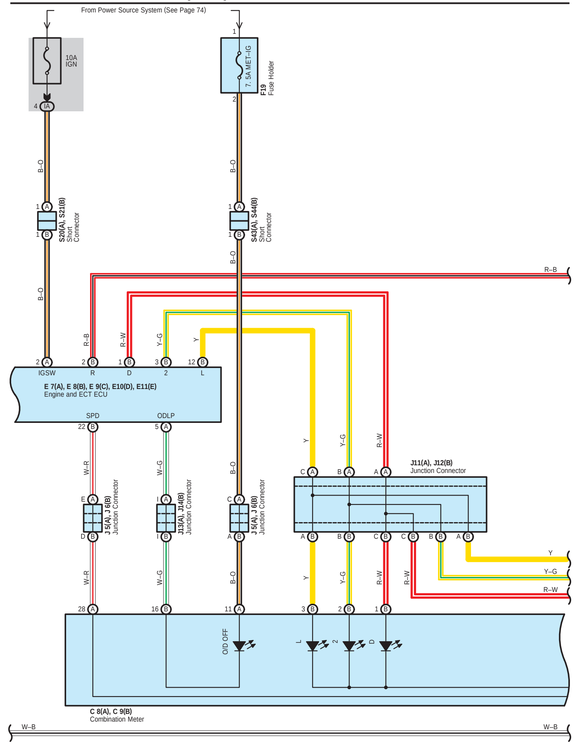

From Power Source System (See Page 74)
7. 5A OBD
7. 5A MET–IG
F19 Fuse Holder
7. 5A GAUGE
7. 5A ECU–B
1
2
IB
IL
B
B–O
SB(B–R)
V
SB(V)
ID2
9
13
16
19
72
S16(A), S17(B) Short Connector
J16 Junction Connector
55
60
B–R
D 6
DLC3
BATT
TC
SIL
CG
TAC
11
21
C 8(A)
Combination Meter
Check Engine
Glow
Speedometer
Tachometer
SB
(P–B)
W
W–B
W–L
3D
3I
3J
3F
7
4
26
29
28
R–B
L–Y
G–W
W–R
J 3 Junction Connector
J26(A), J27(B) Junction Connector
D
F
A
B
3H
6
SB(P–B)
IC

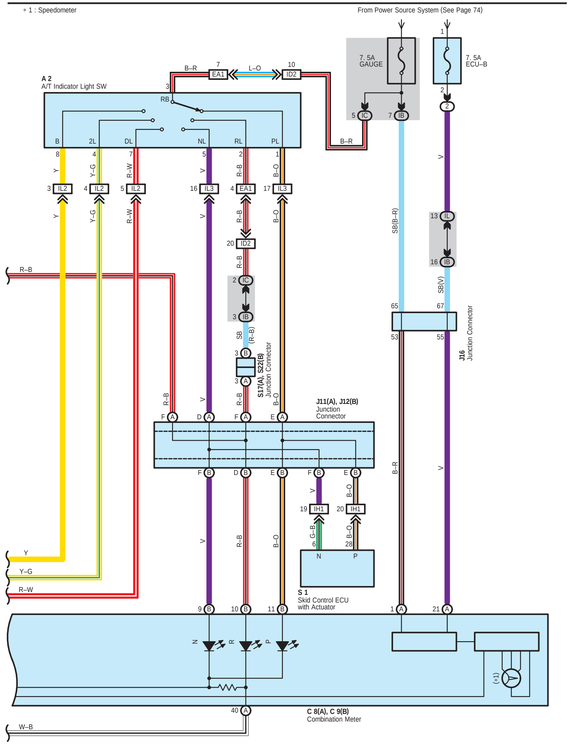
ECT and A/T Indicator (LHD)



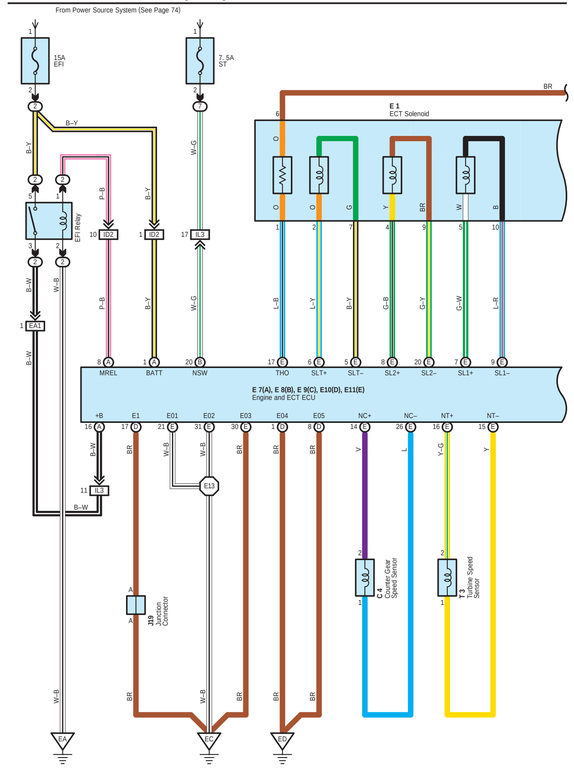


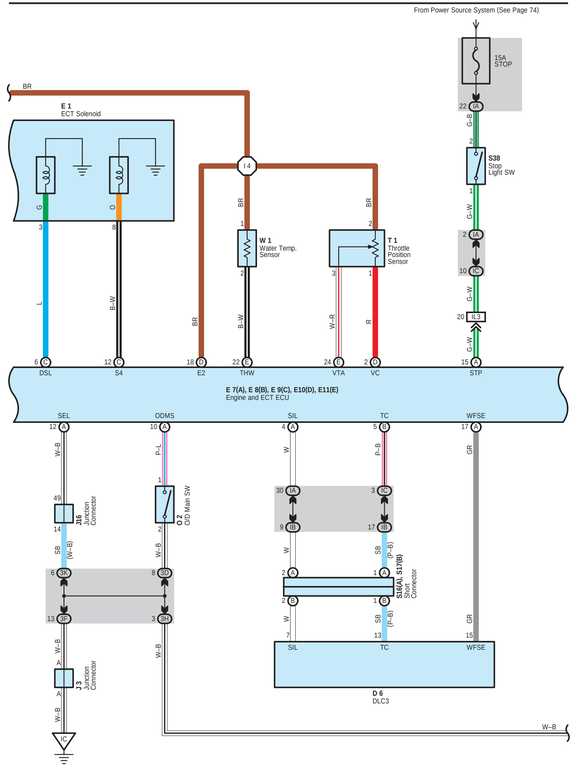
ECT and A/T Indicator (LHD)



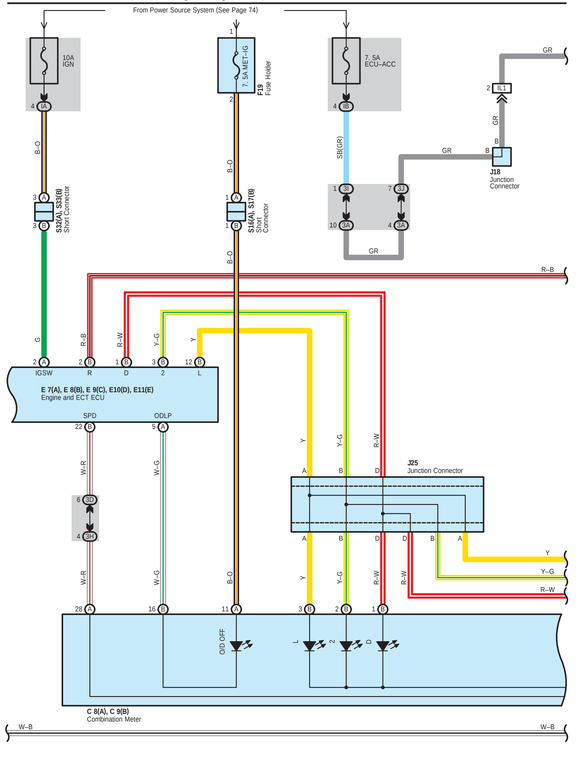


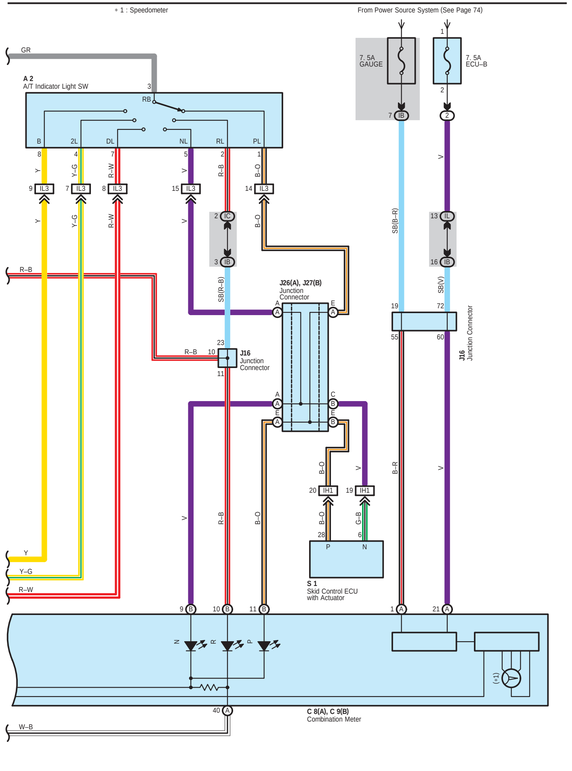
ECT and A/T Indicator (RHD)



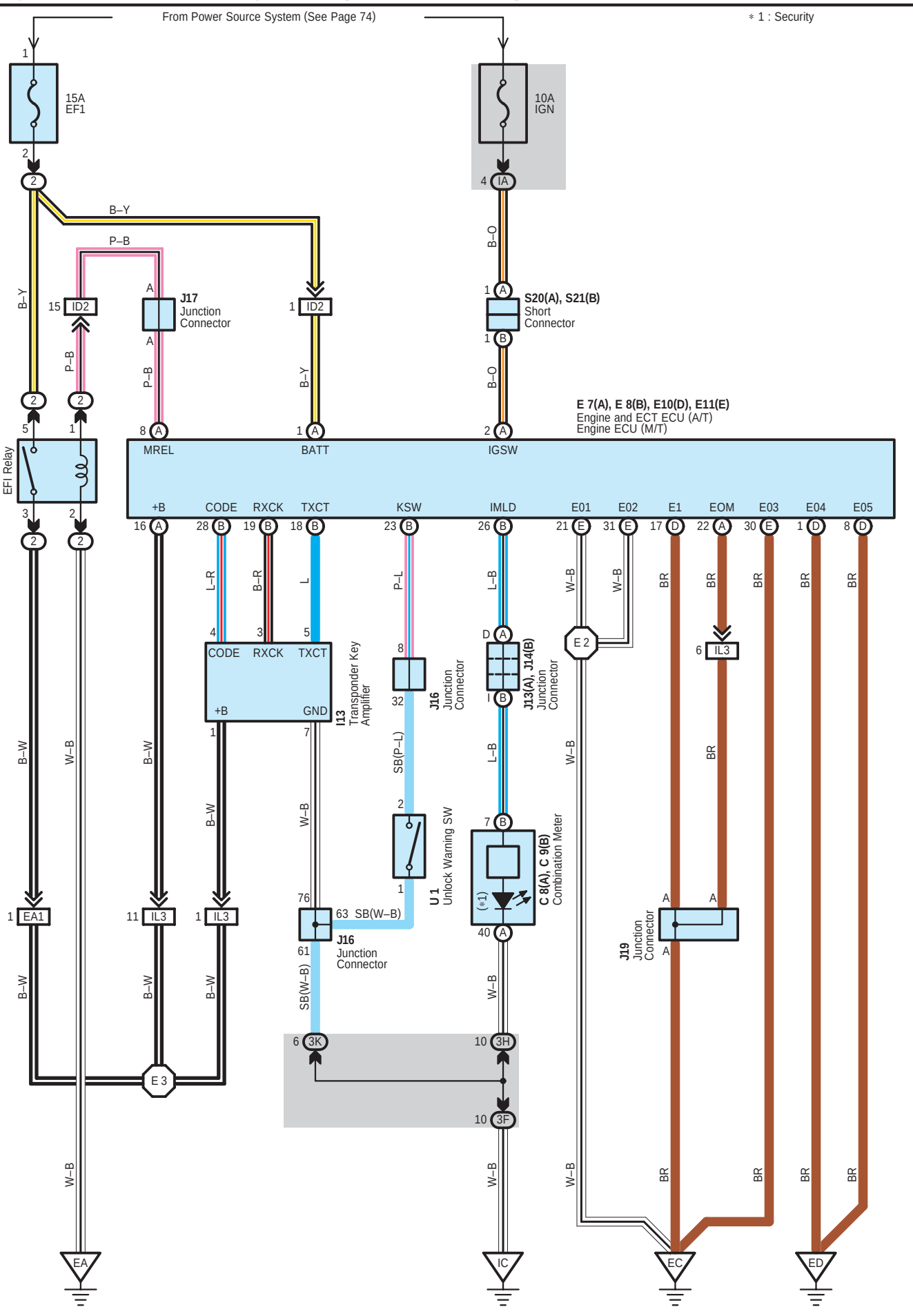


ECT and A/T Indicator (RHD)

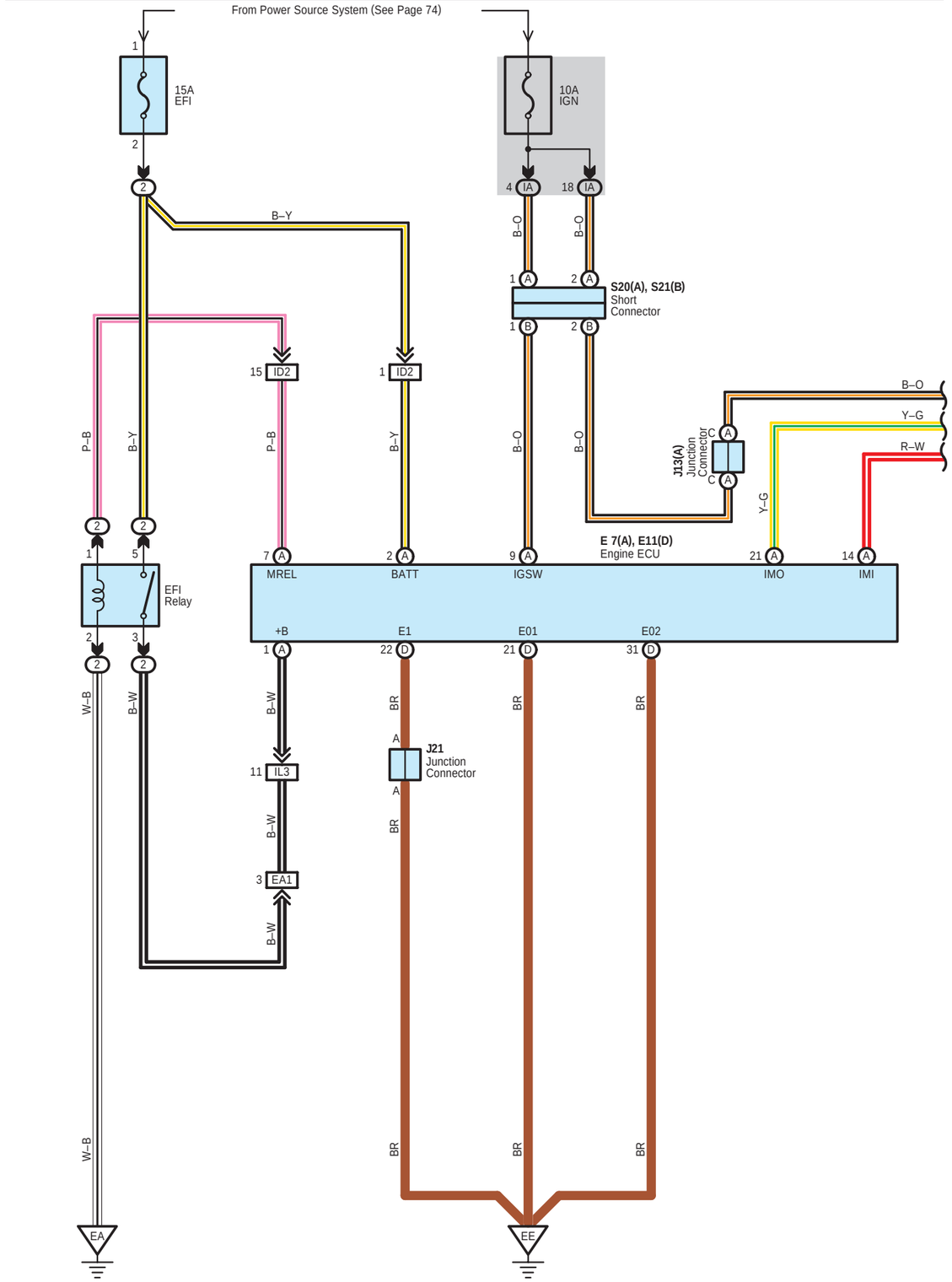


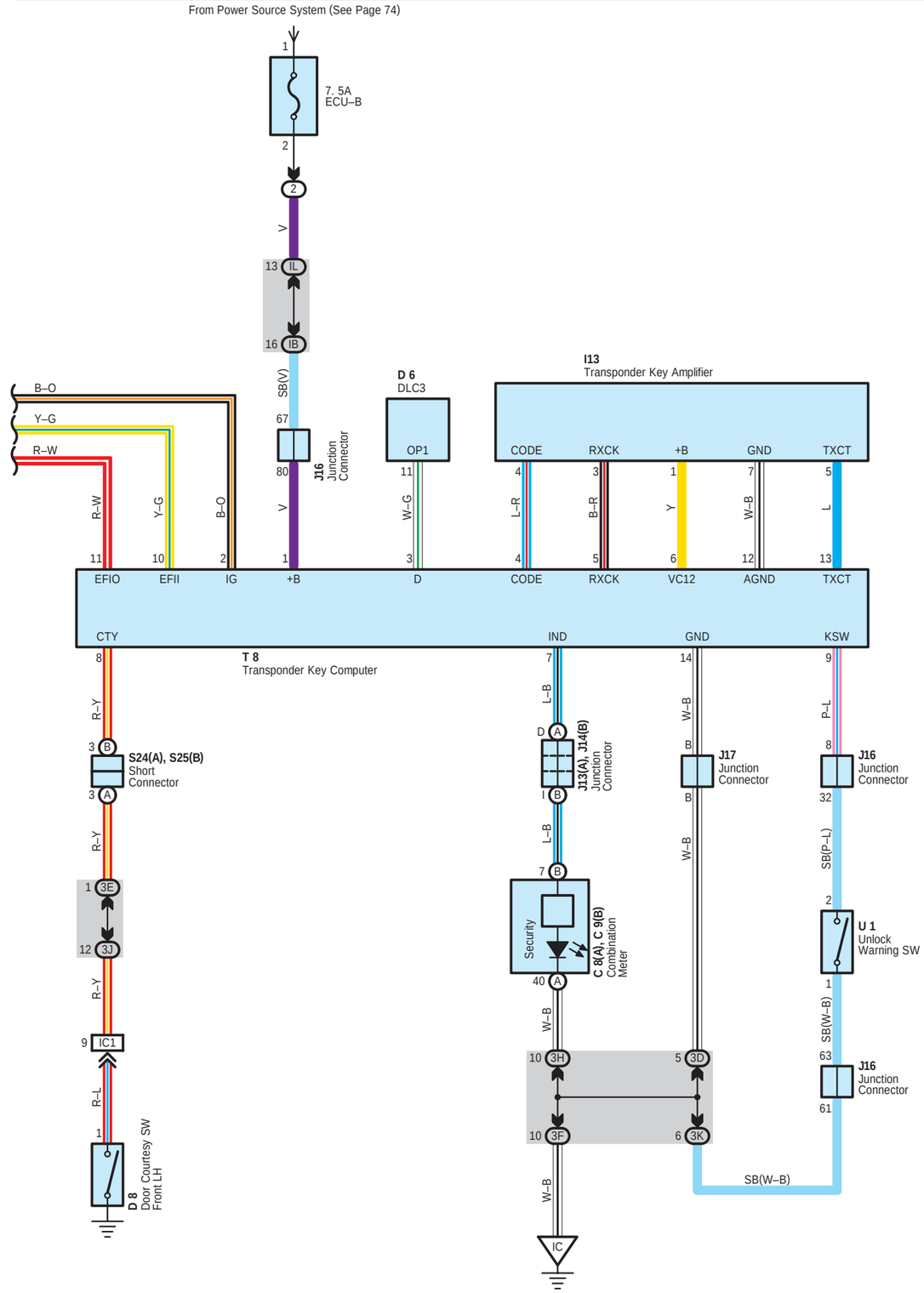


Engine Immobiliser System (LHD 1AZ–FE)

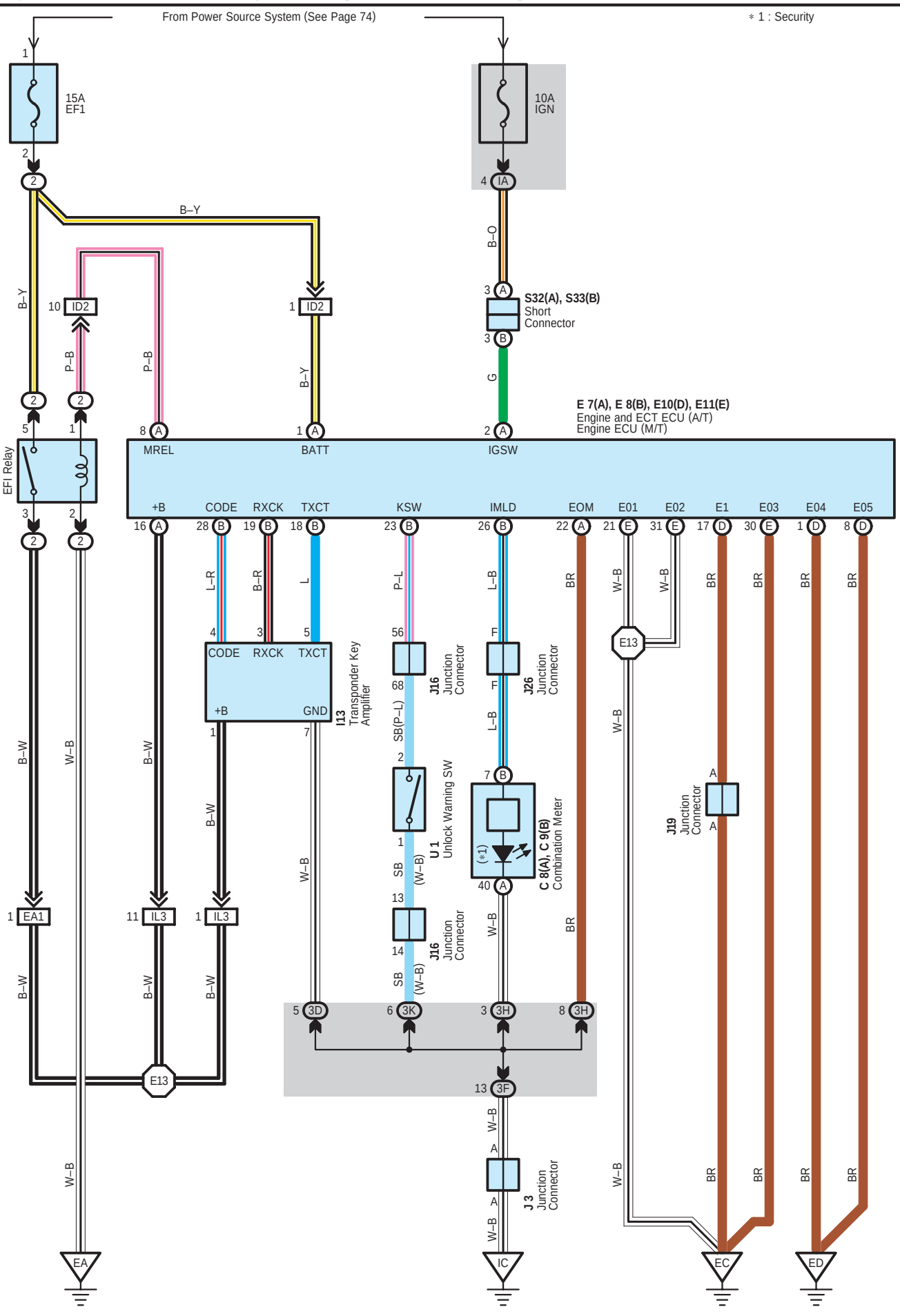


Engine Immobiliser System (LHD 1CD–FTV)

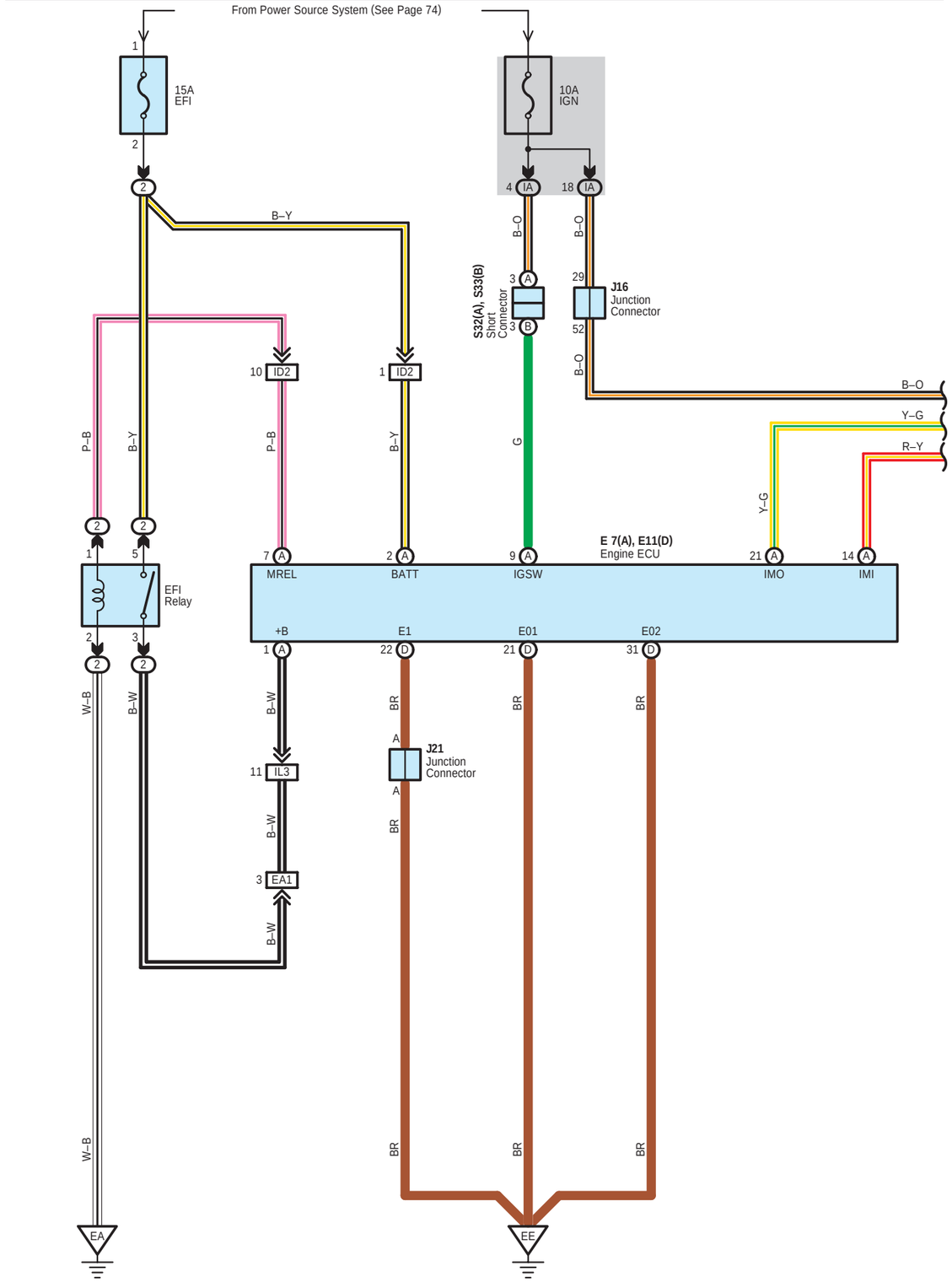


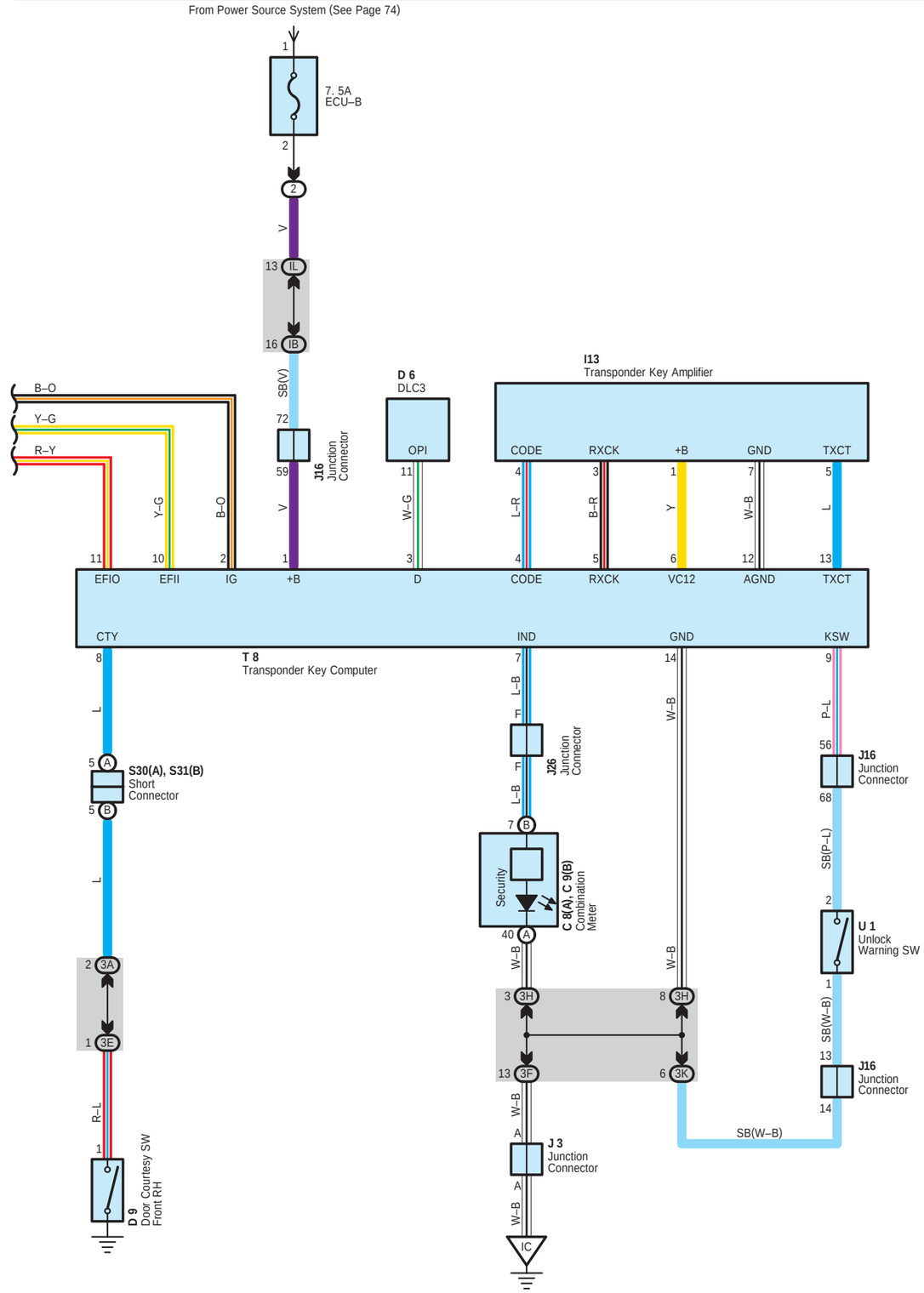


Engine Immobiliser System (RHD 1AZ–FE)

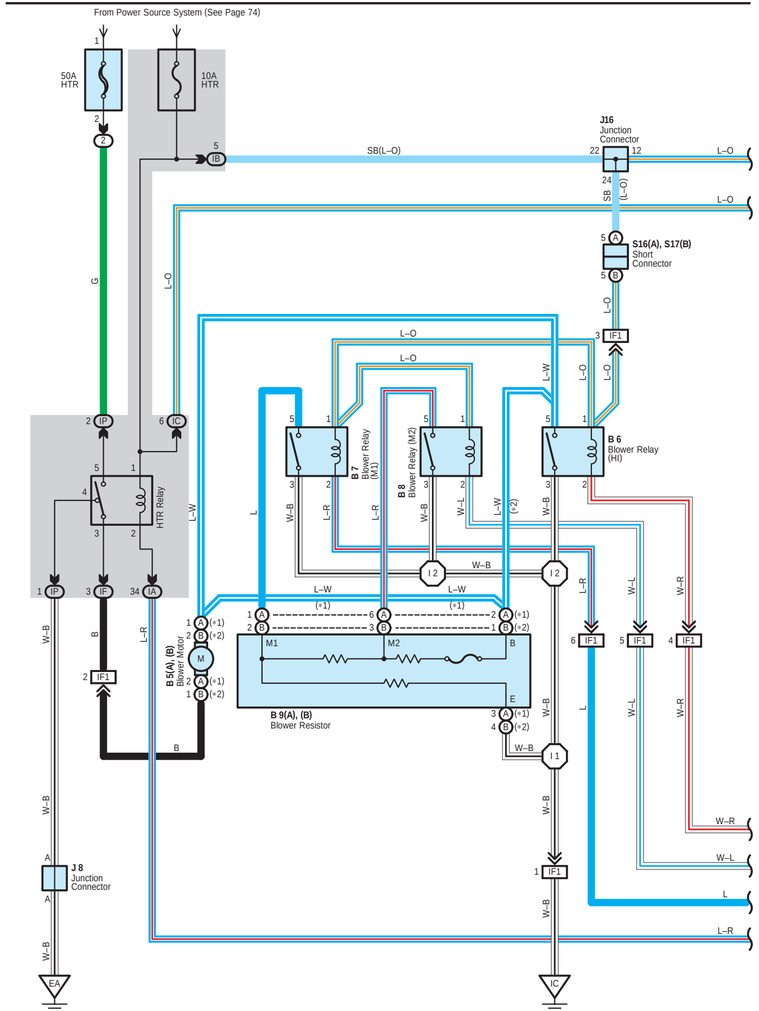


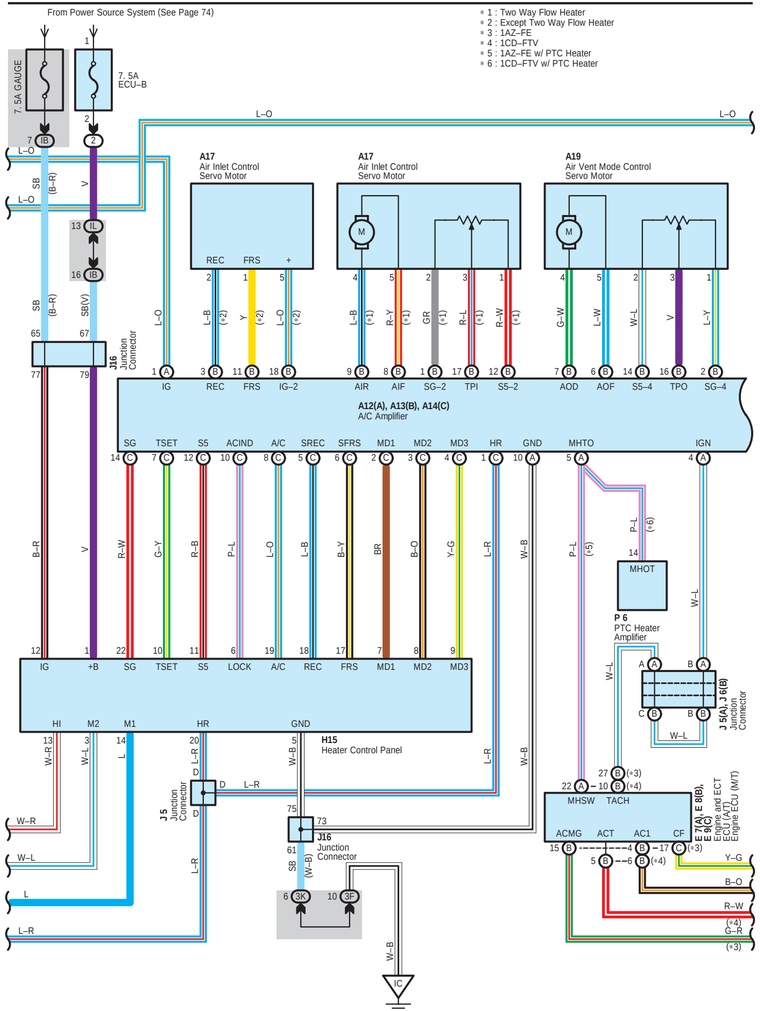
Engine Immobiliser System (RHD 1CD–FTV)



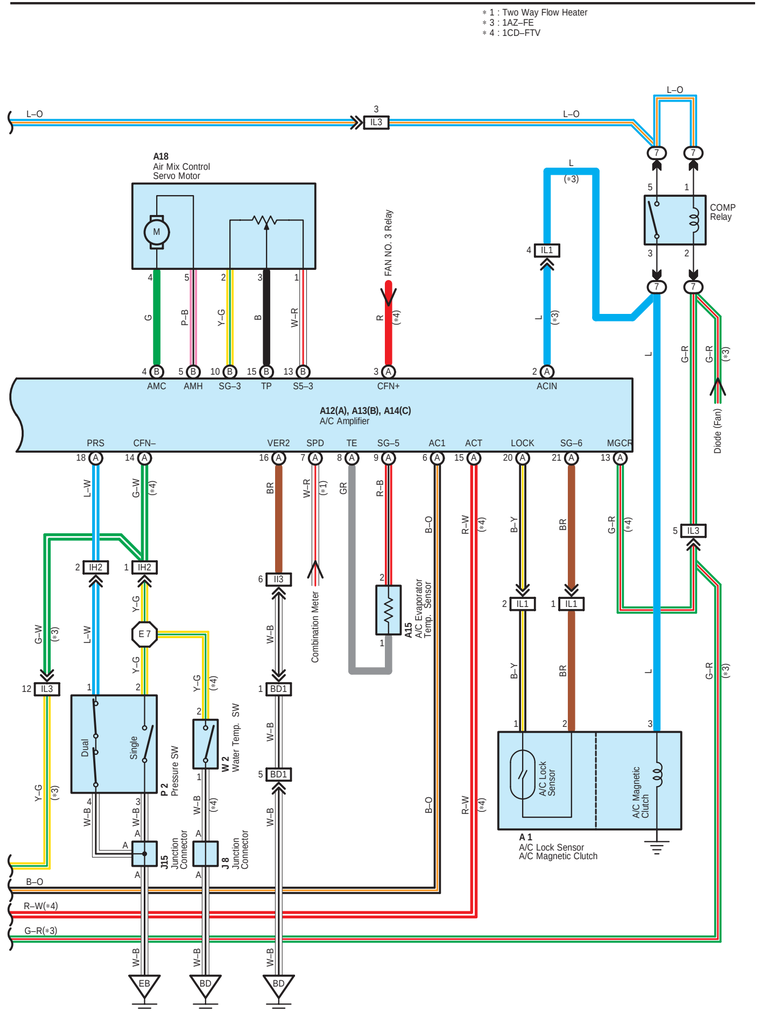


Front Air Conditioner (LHD)

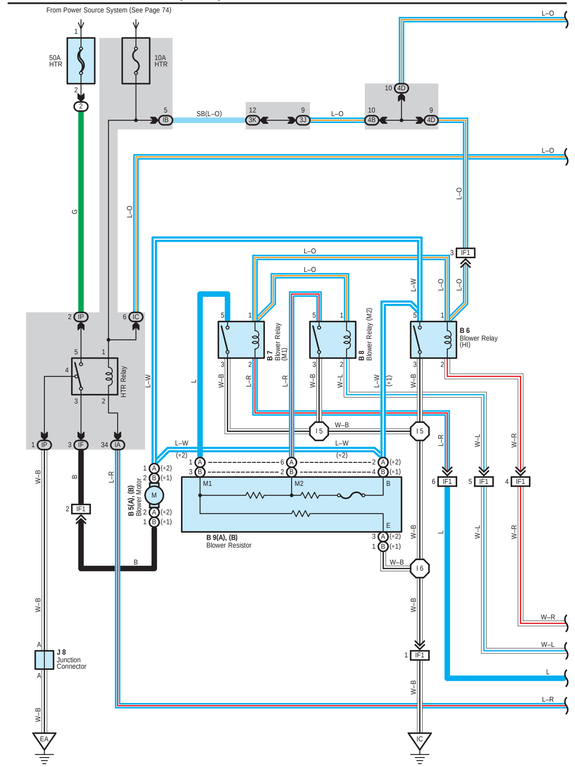


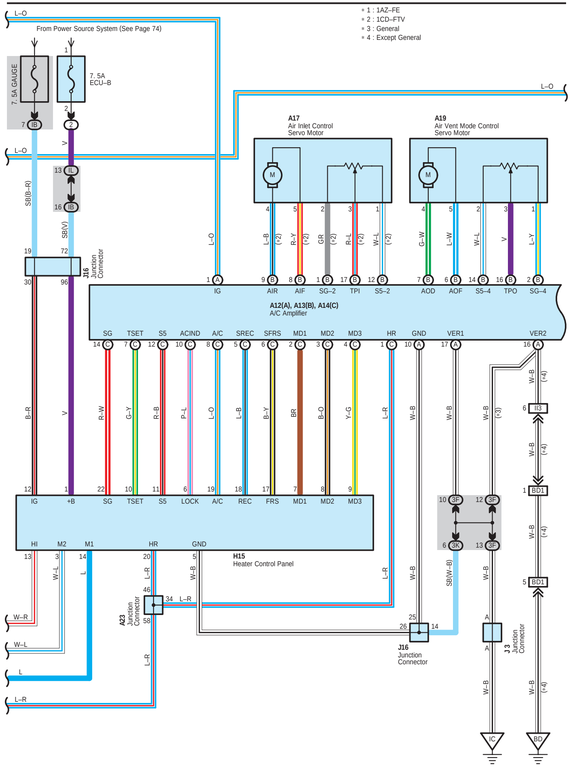


Front Air Conditioner (LHD)

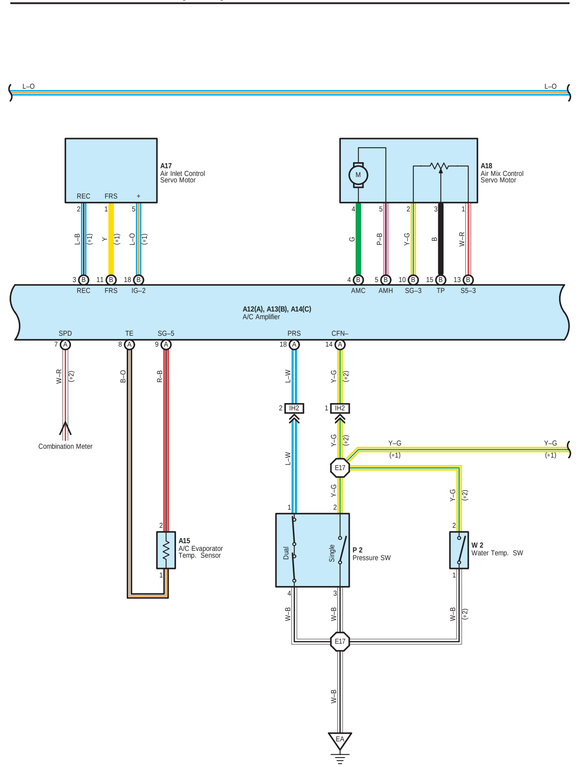


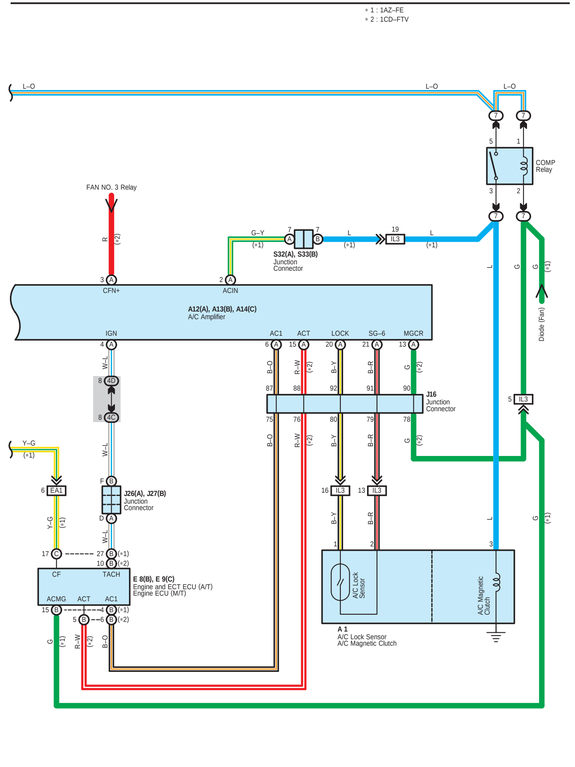
Front Air Conditioner (RHD)



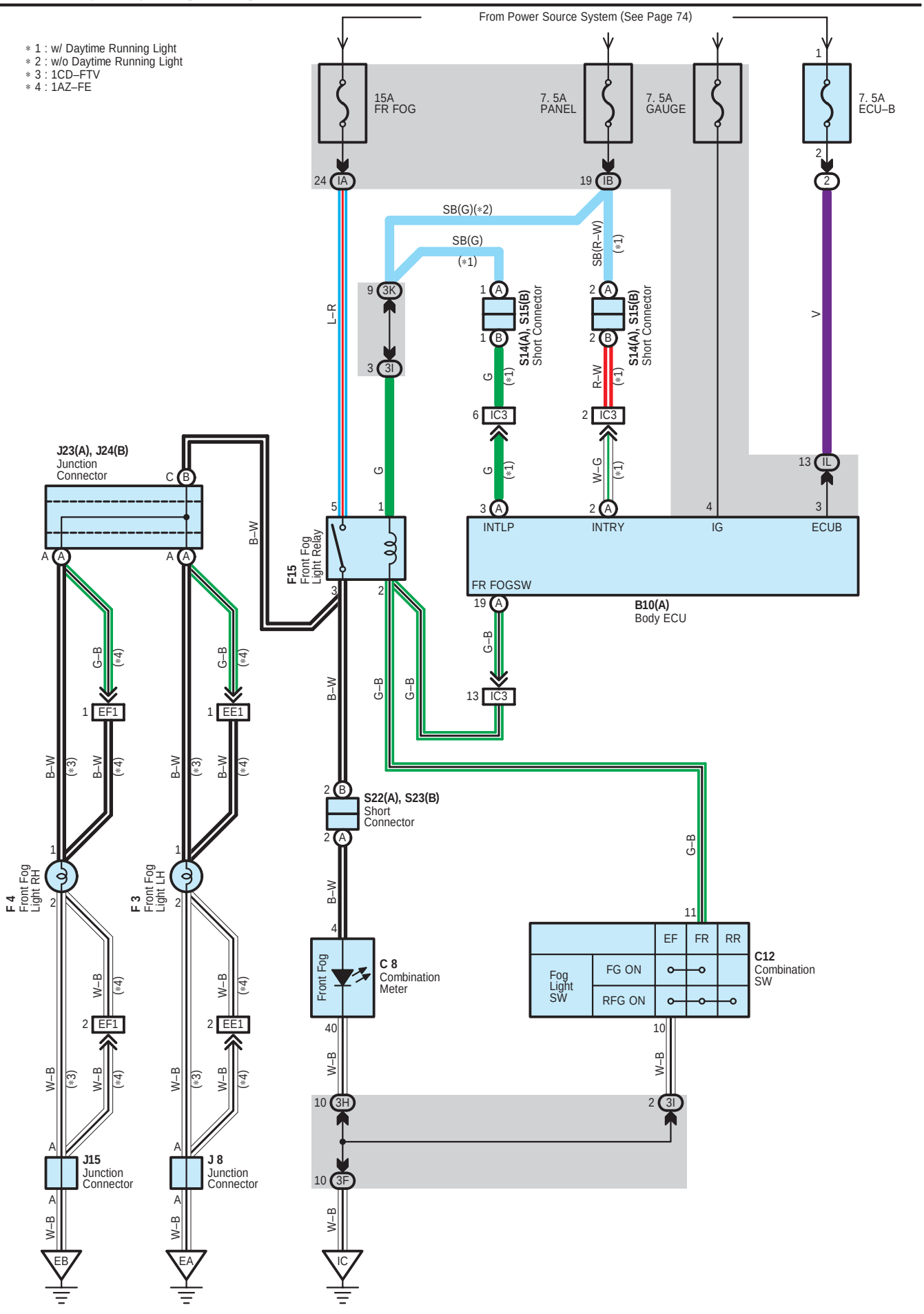


Front Air Conditioner (RHD)

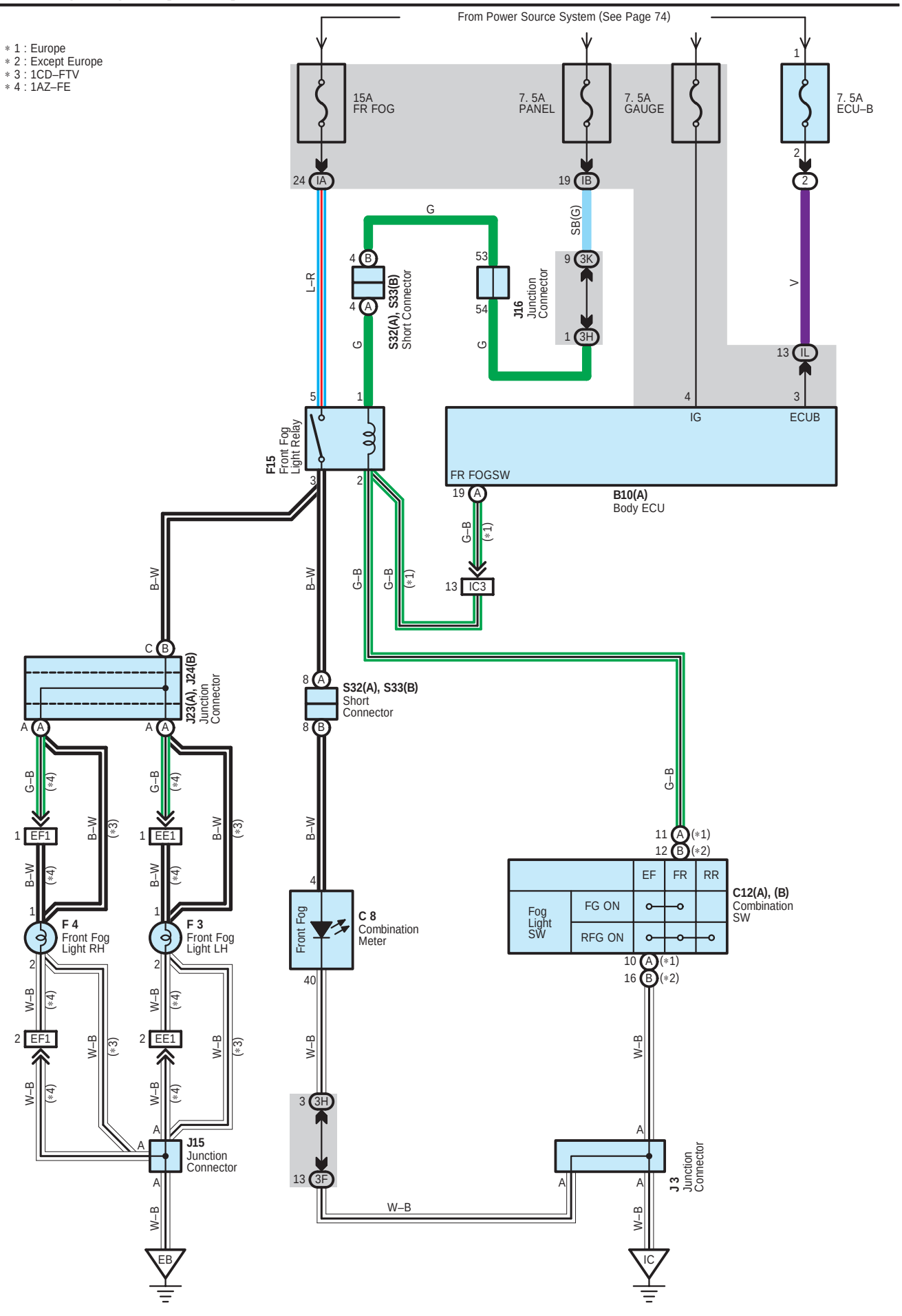




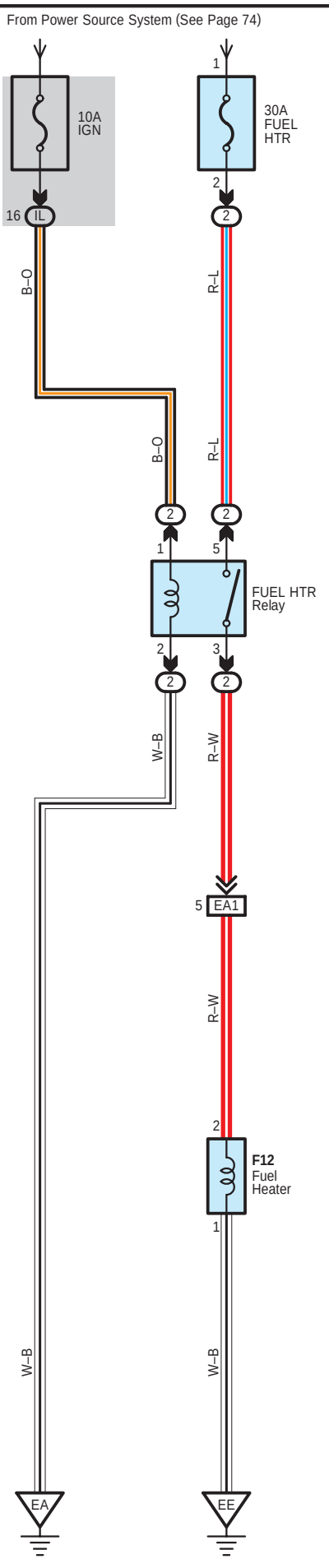
Front Fog Light (LHD)



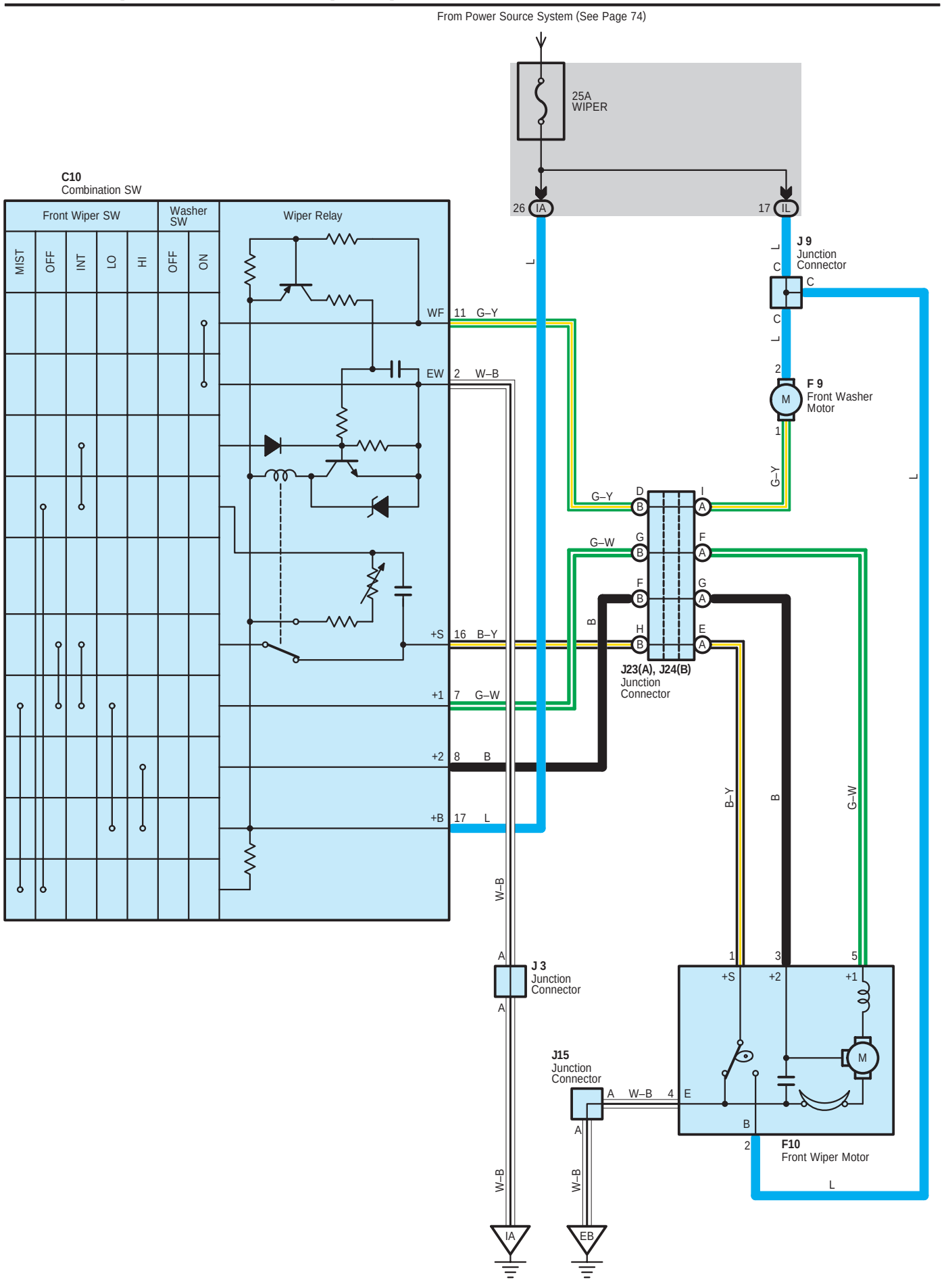
Front Fog Light (RHD)



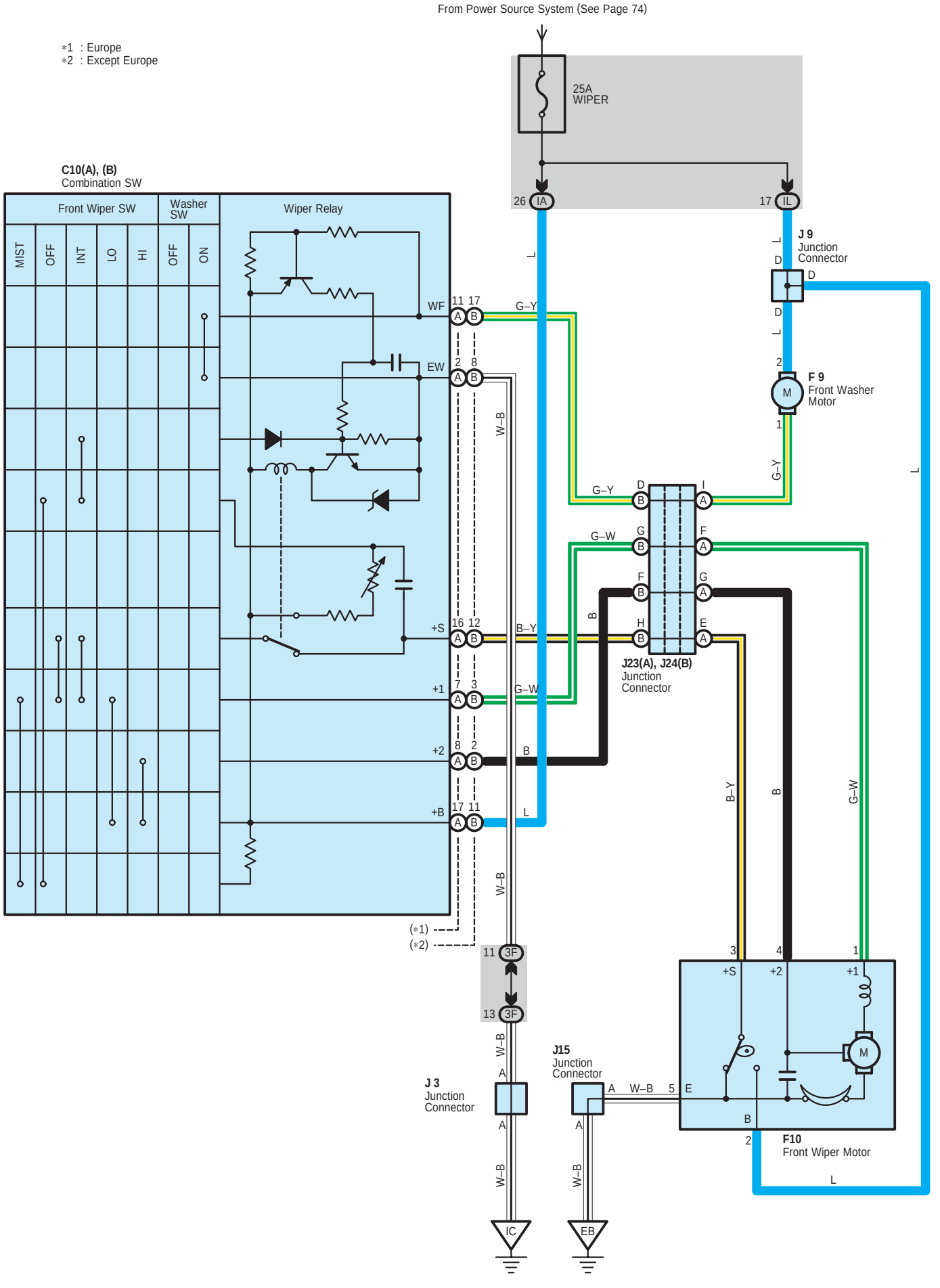
Fuel Heater (LHD)



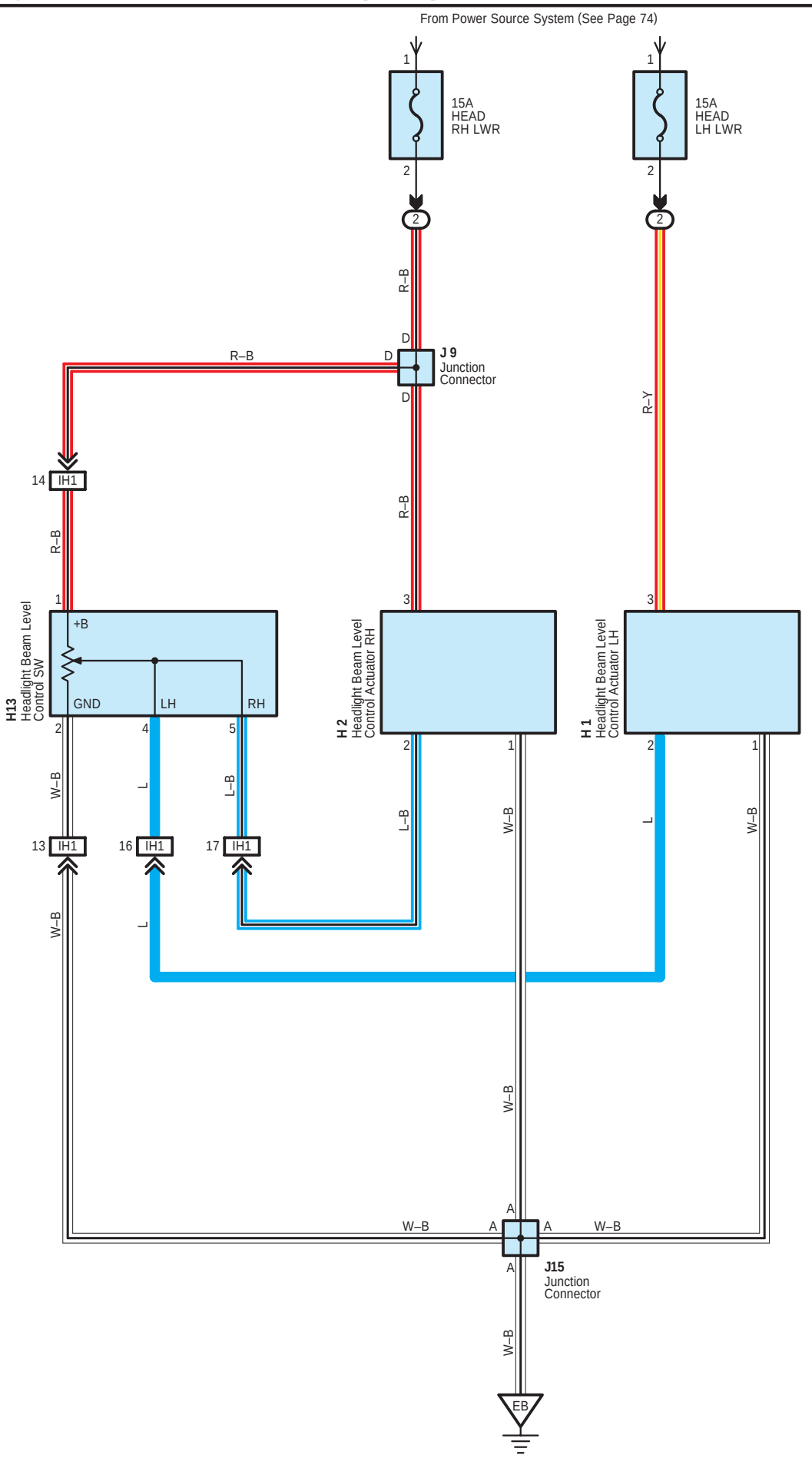
Front Wiper and Washer (LHD)



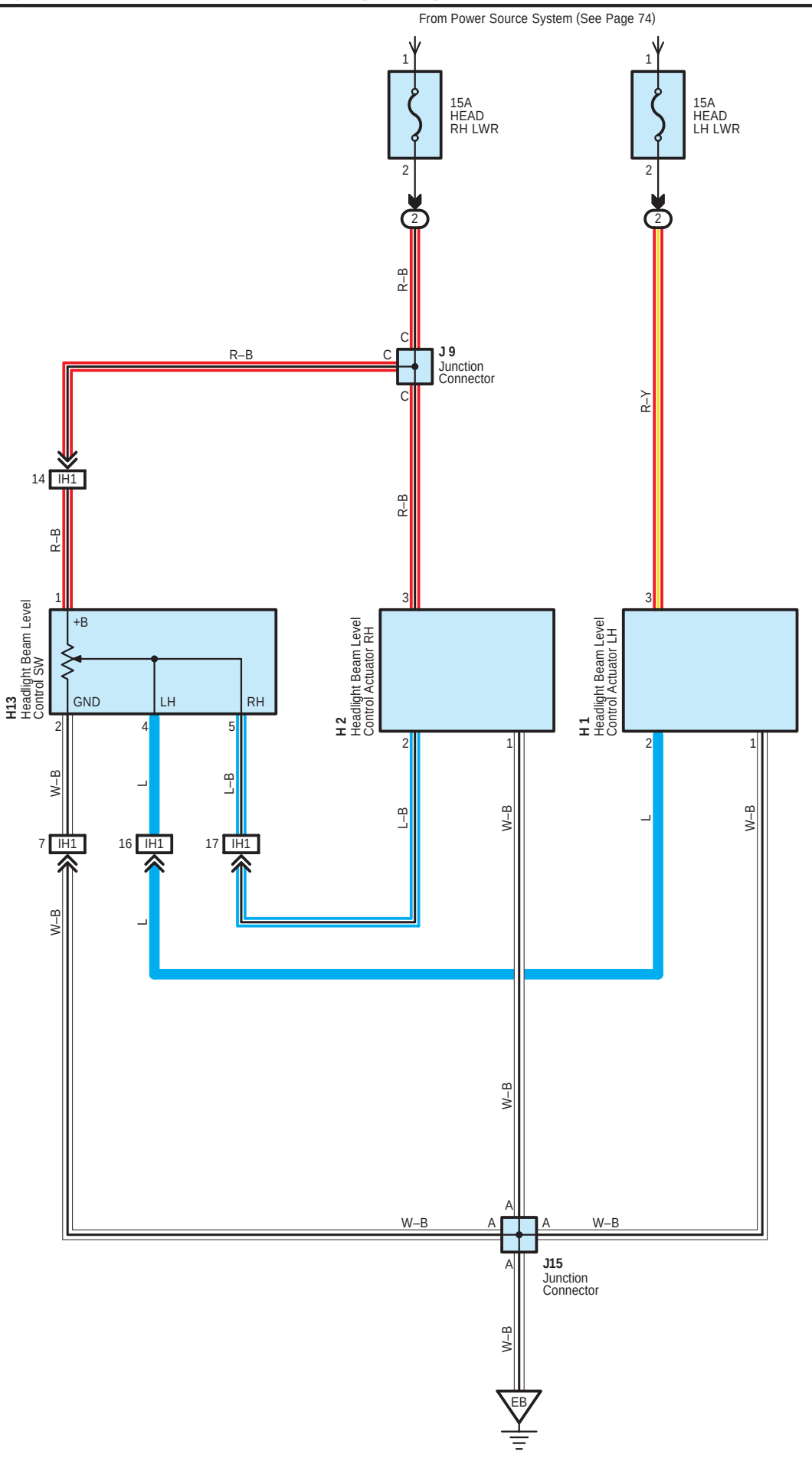
Front Wiper and Washer (RHD)



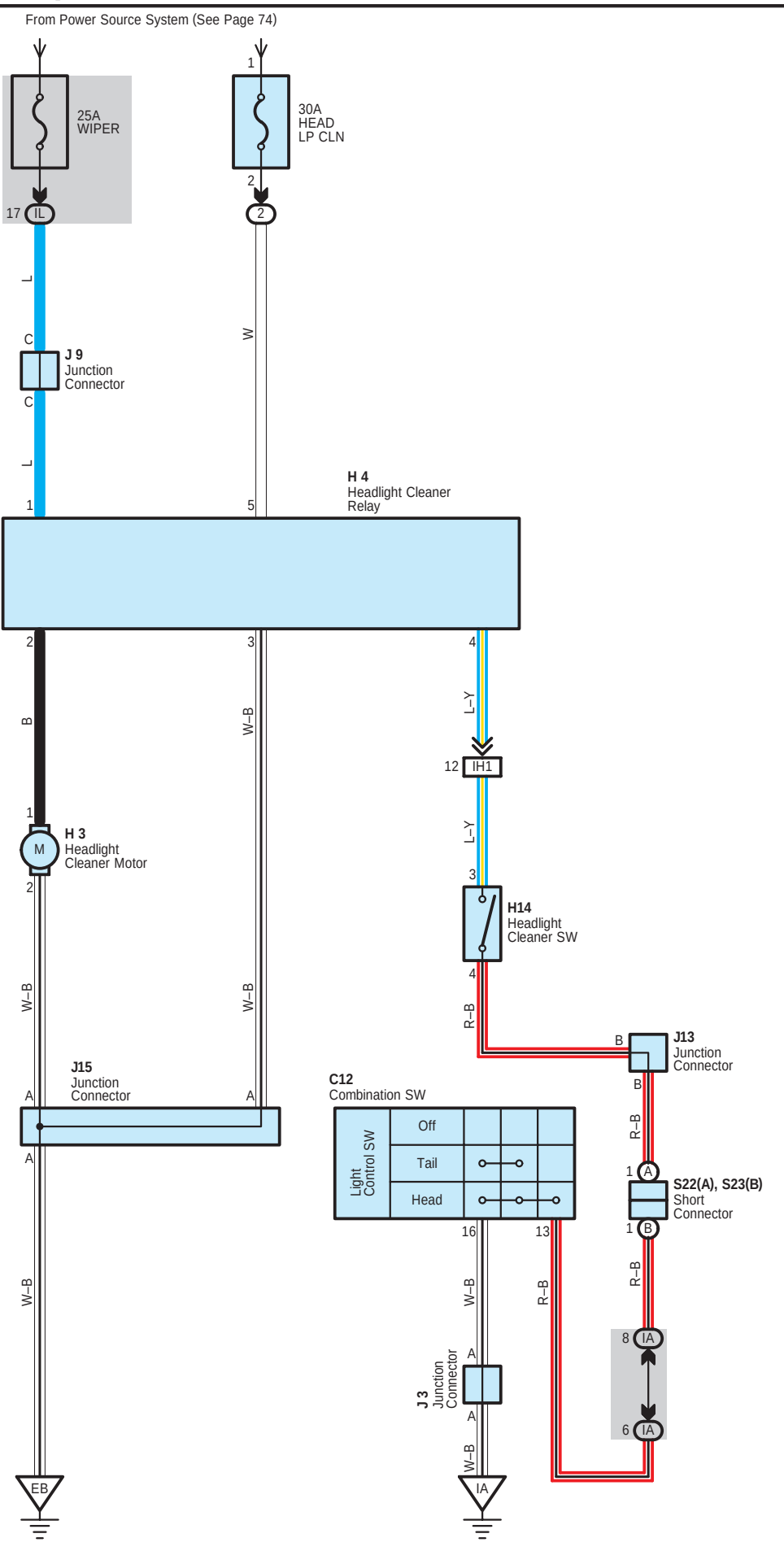
Headlight Beam Level Control (LHD)



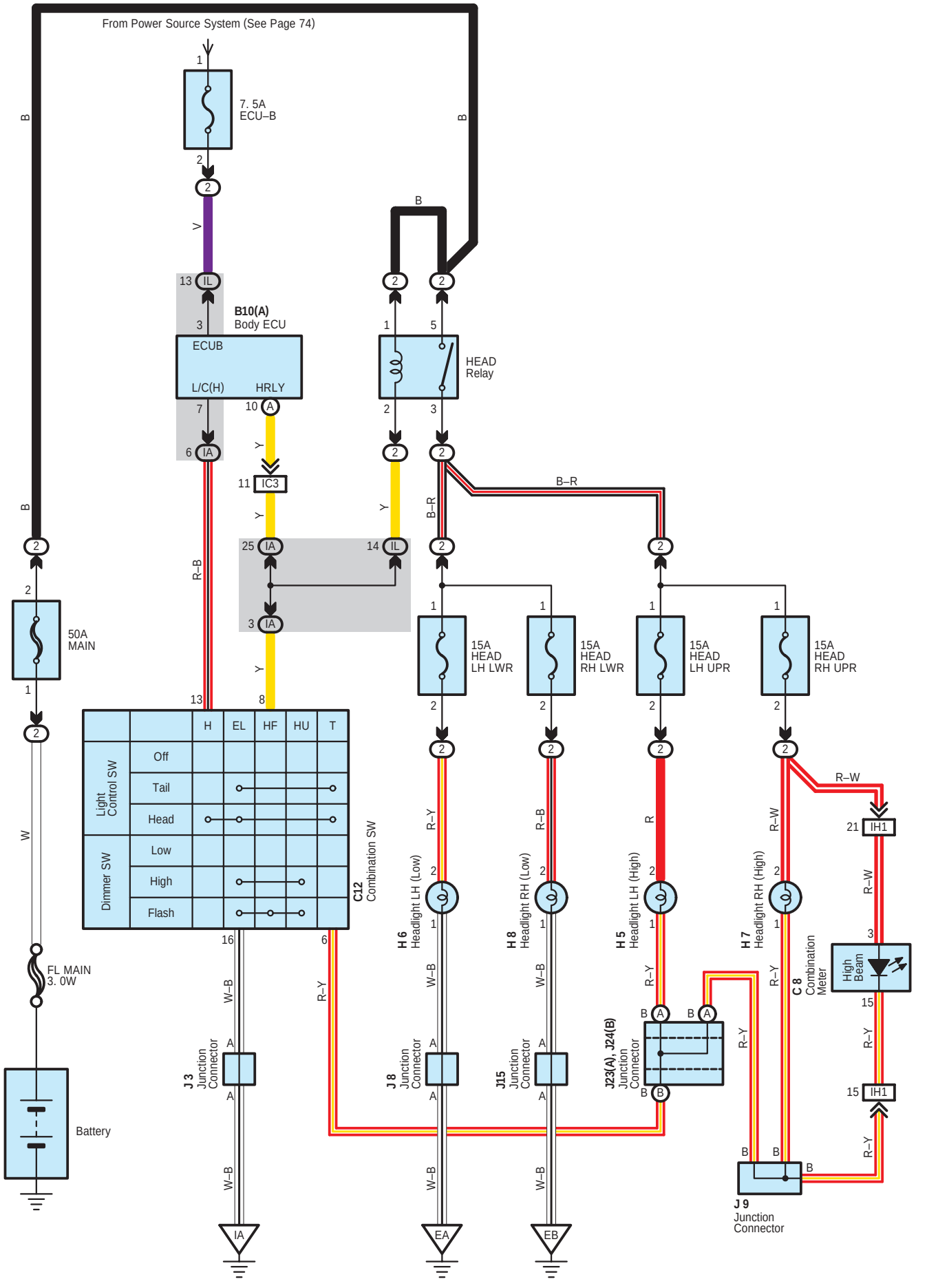
Headlight Beam Level Control (RHD)



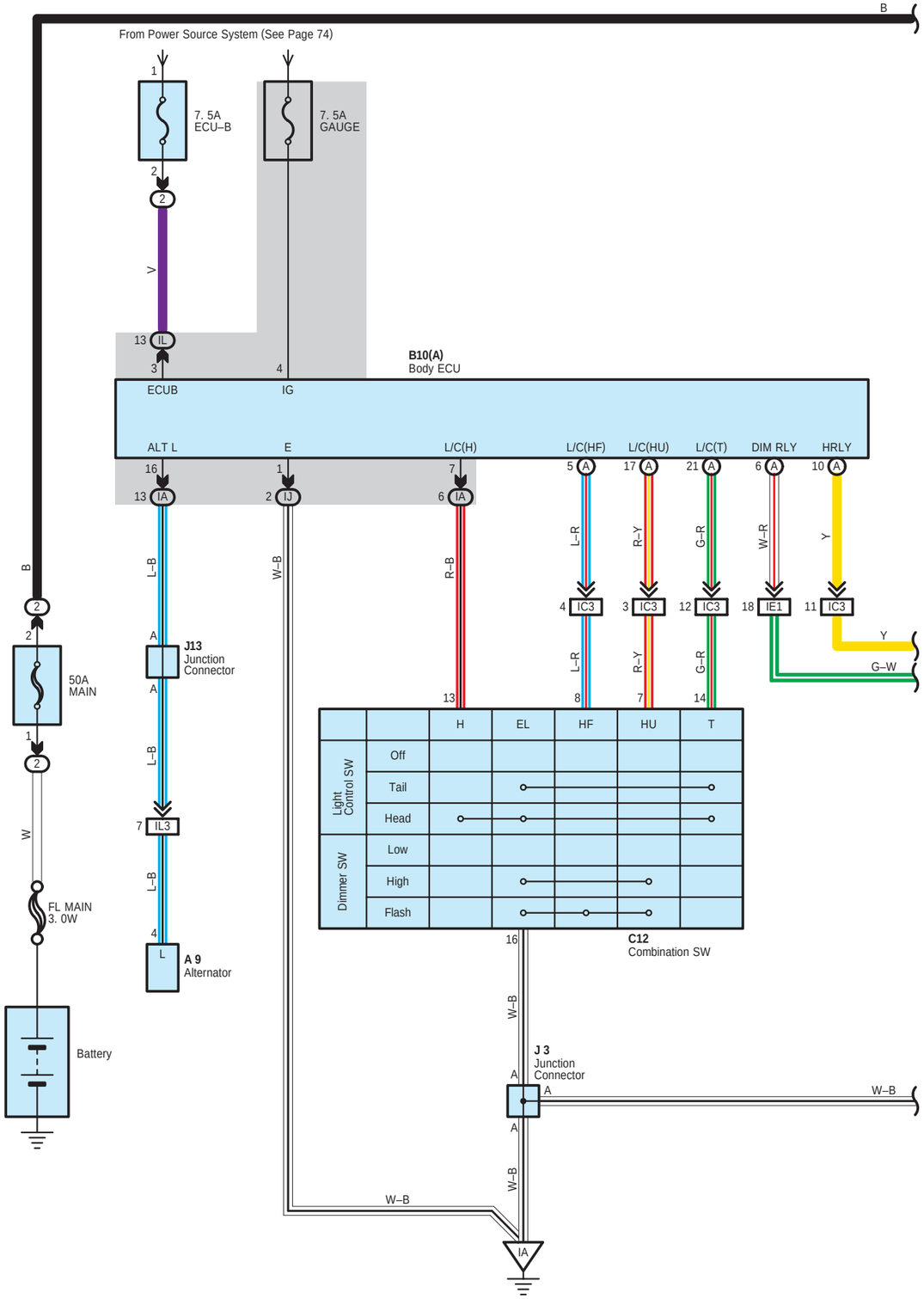
Headlight Cleaner (LHD)

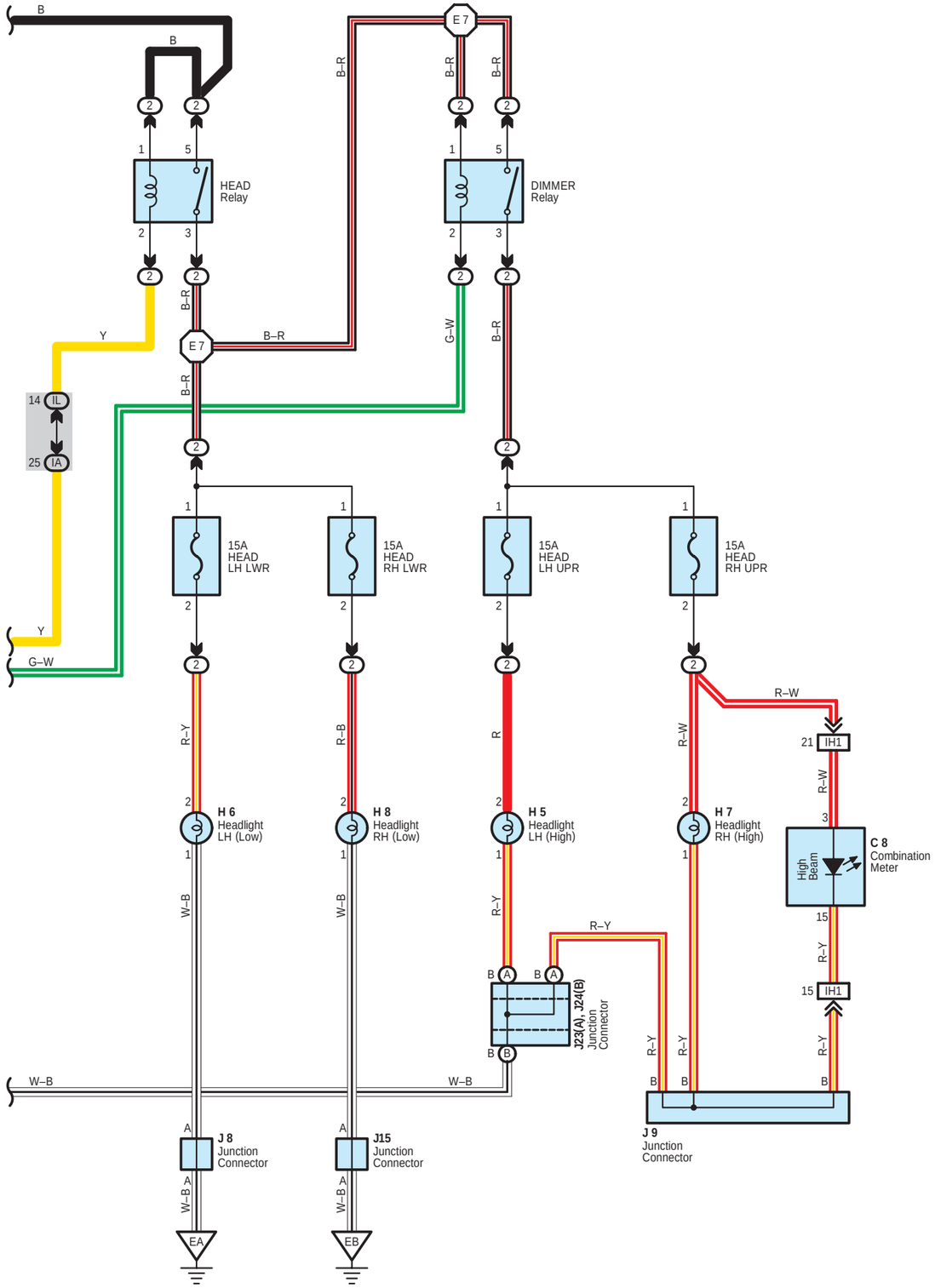


Headlight (LHD w/o Daytime Running Light)

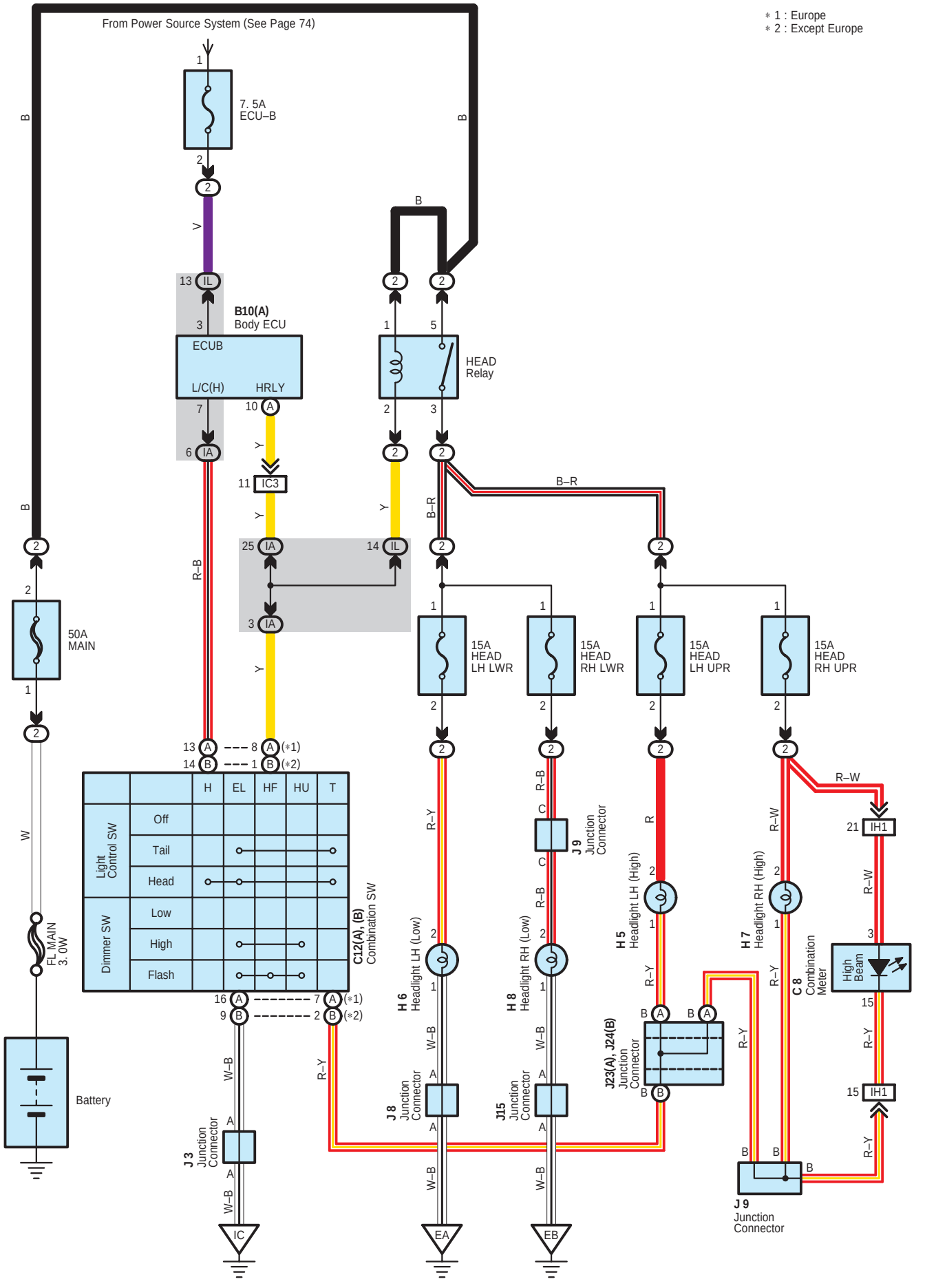


Headlight (LHD w/ Daytime Running Light)



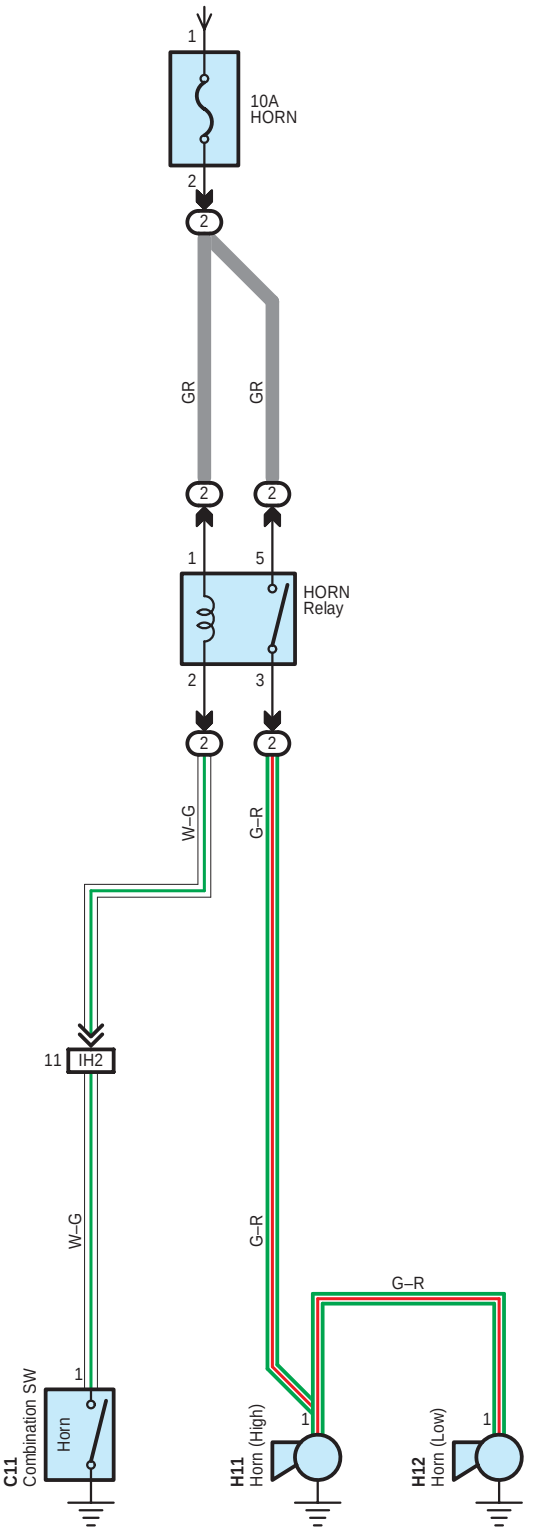


Headlight (RHD)



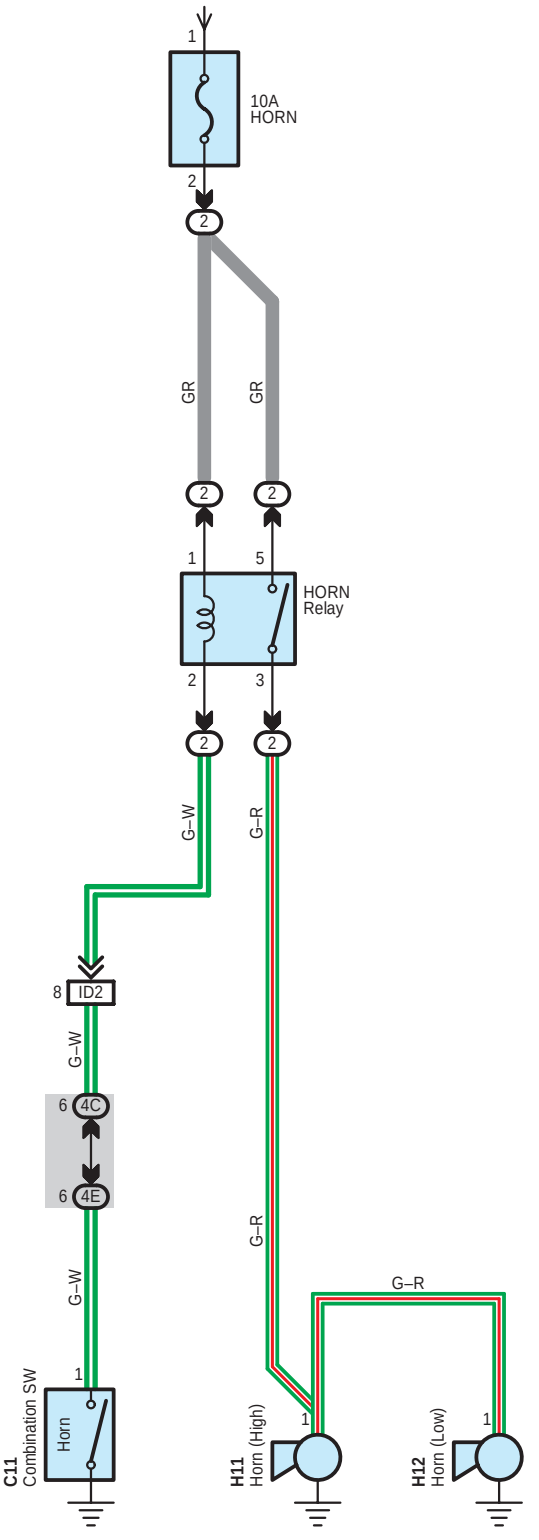
Horn (LHD)

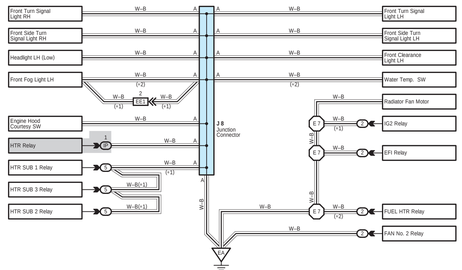
From Power Source System (See Page 74)

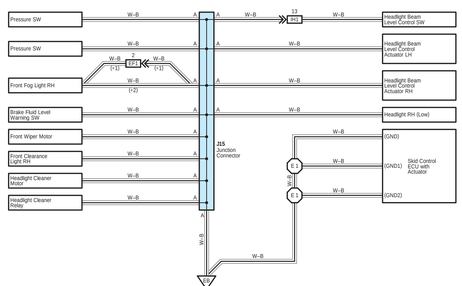


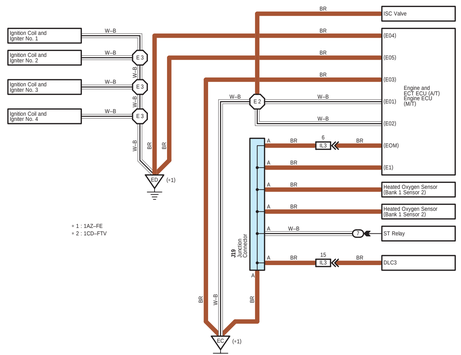
Horn (RHD)

From Power Source System (See Page 74)

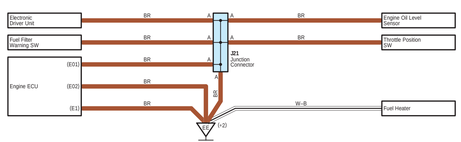


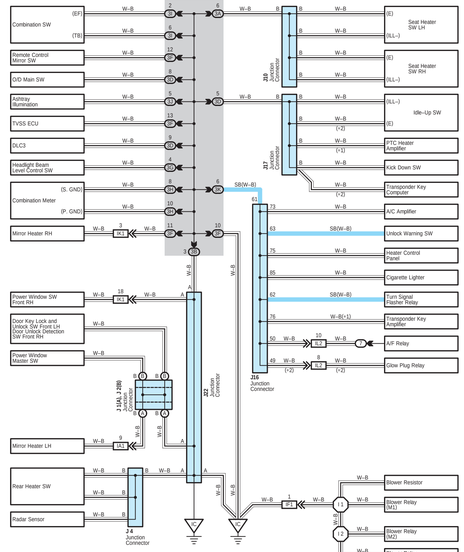


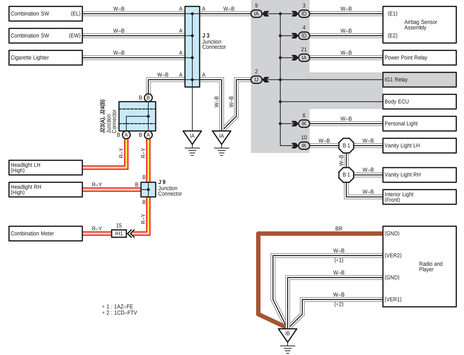




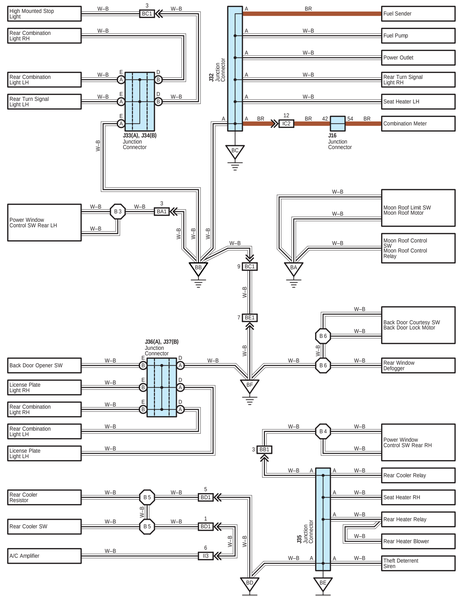
* 1 : 1AZ–FE
* 2 : 1CD–FTV



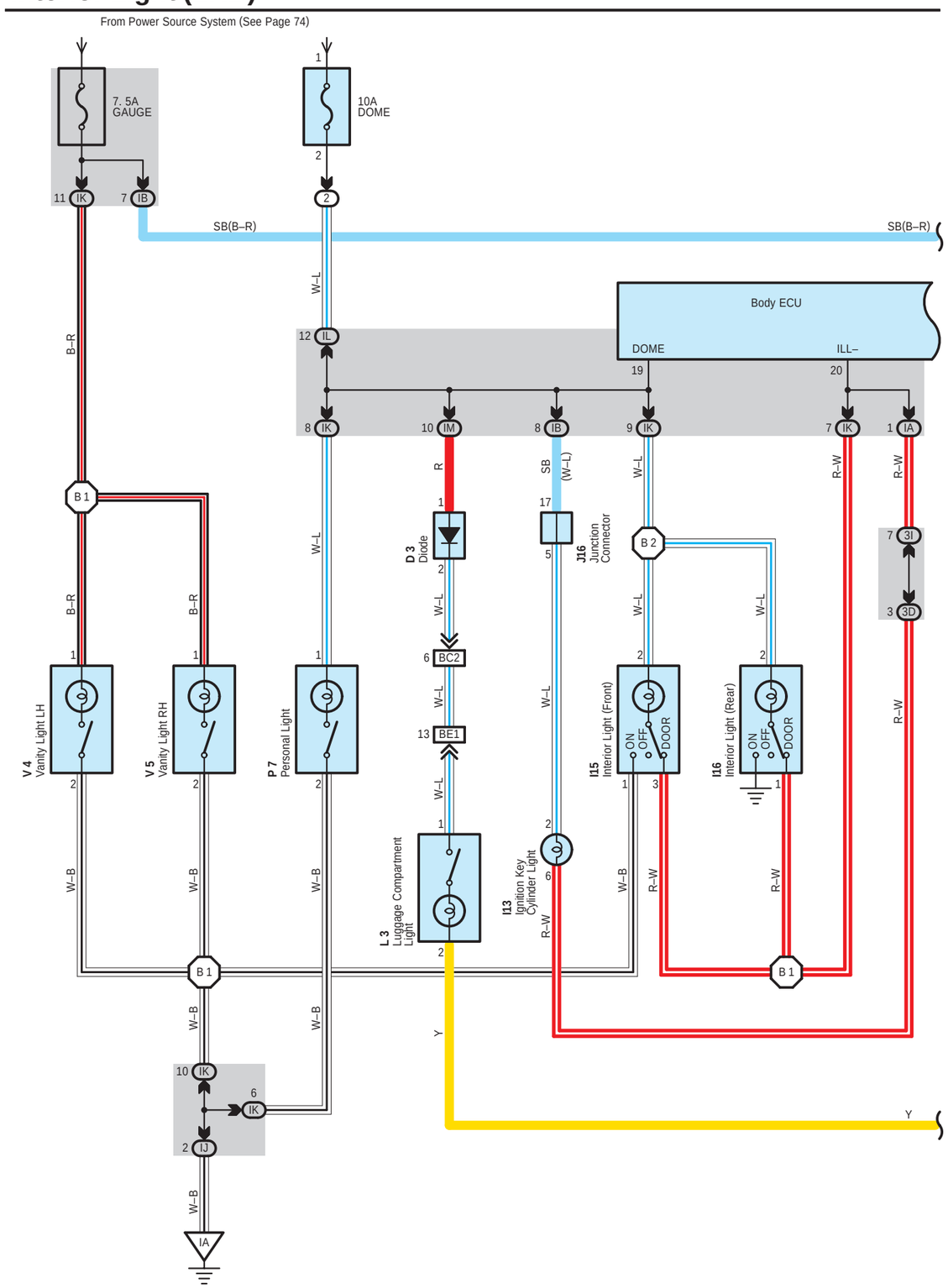


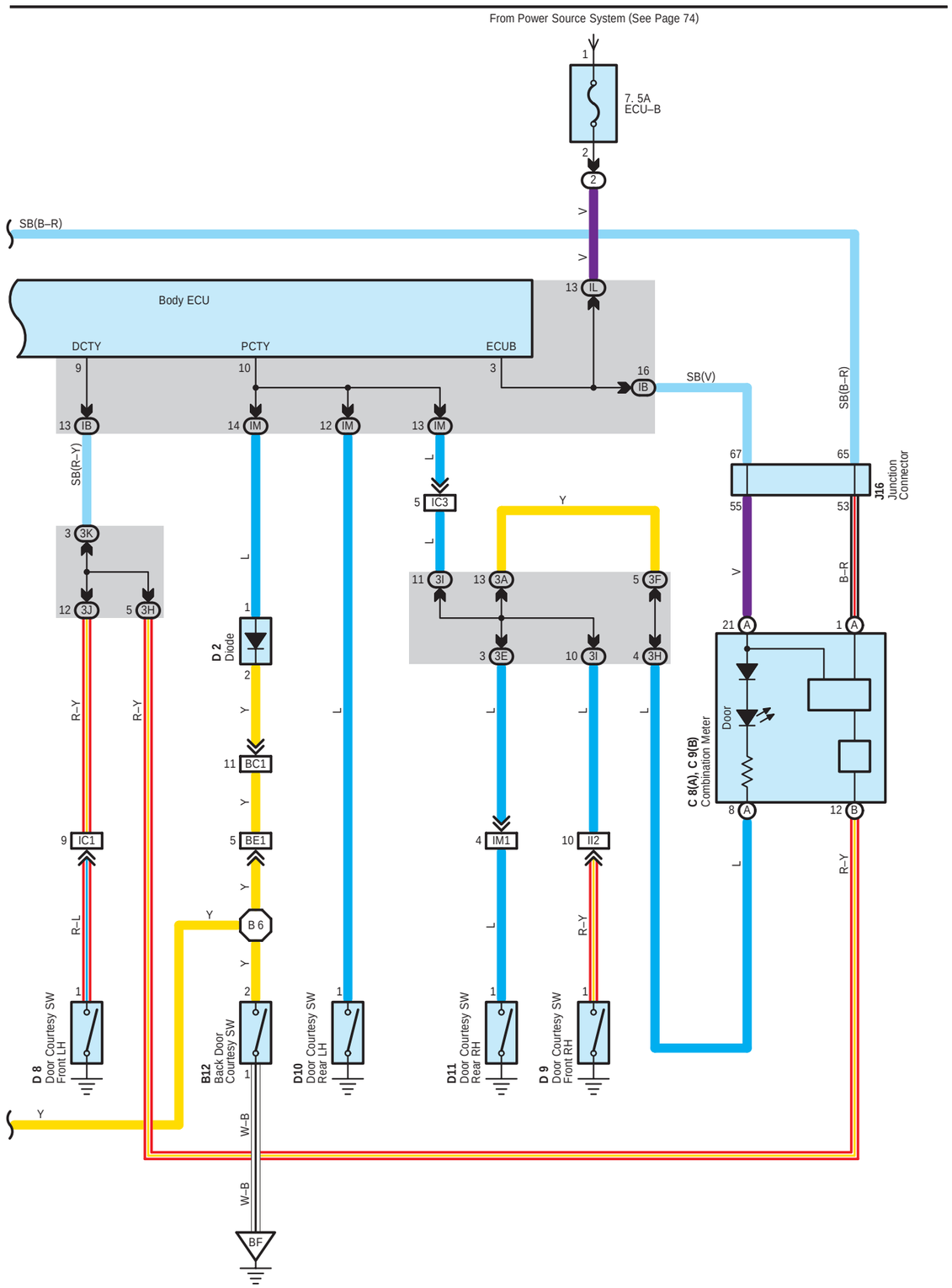


* 1 : 1AZ–FE
* 2 : 1CD–FTV

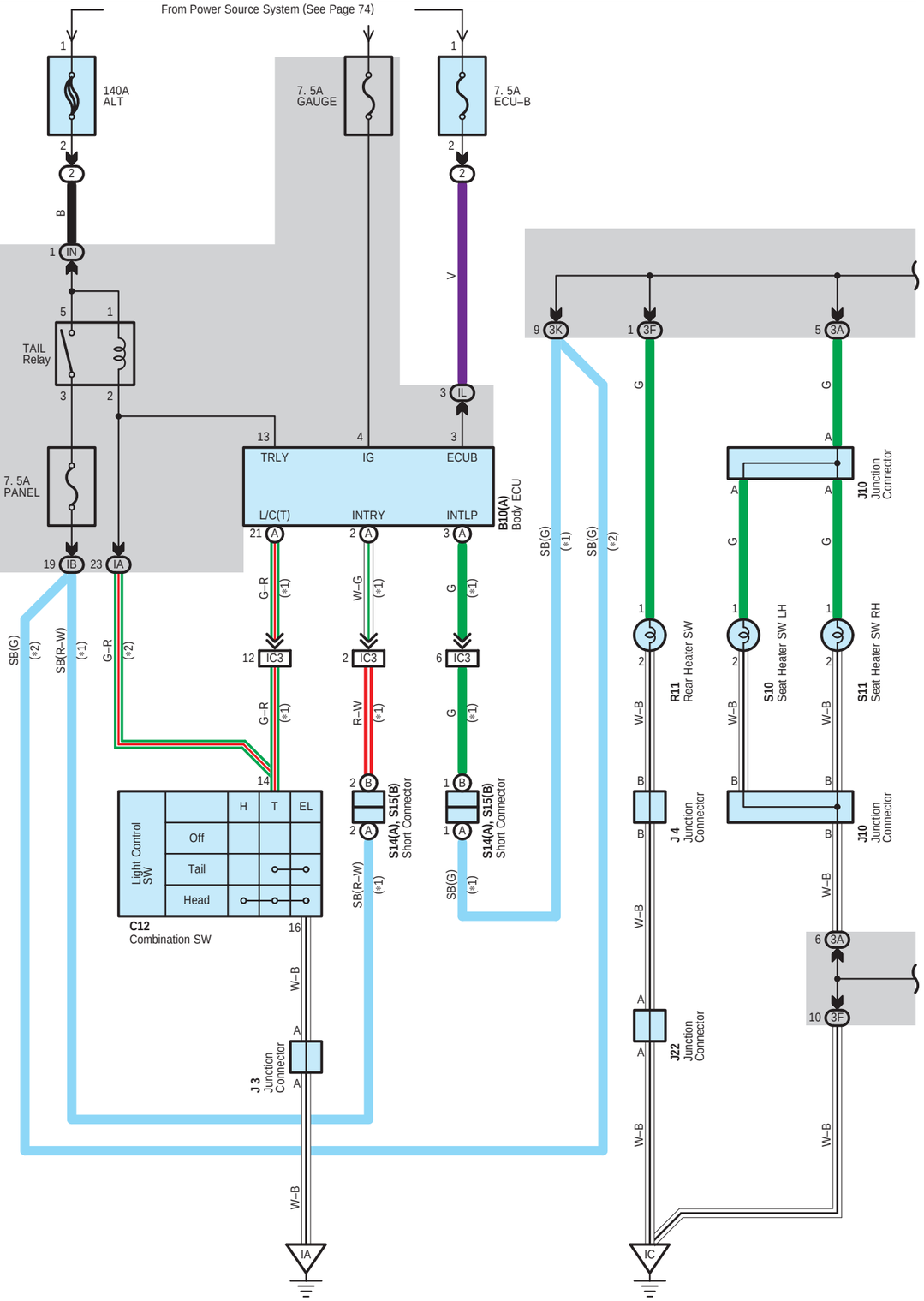


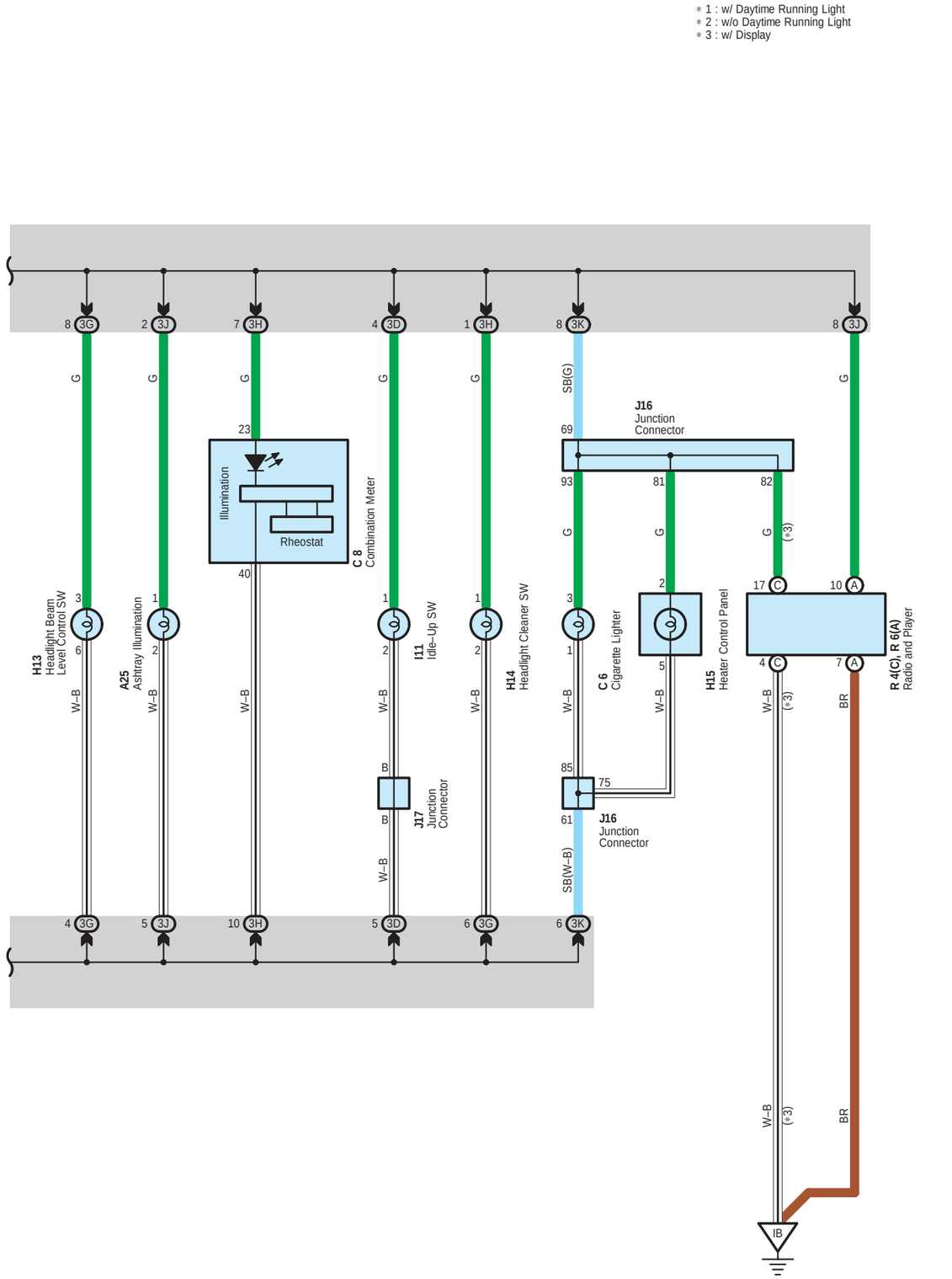
Interior Light (LHD)





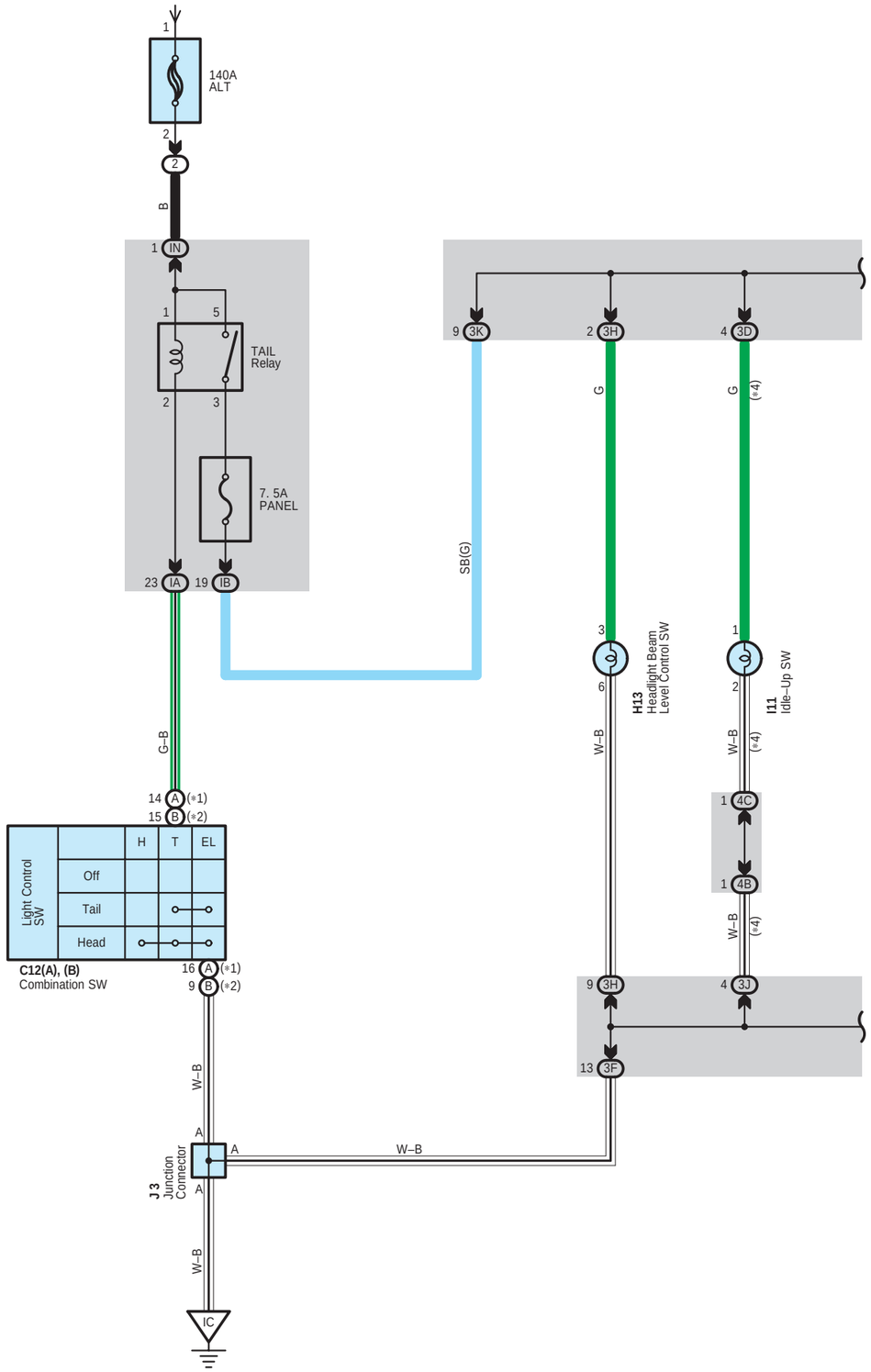
Illumination (LHD)



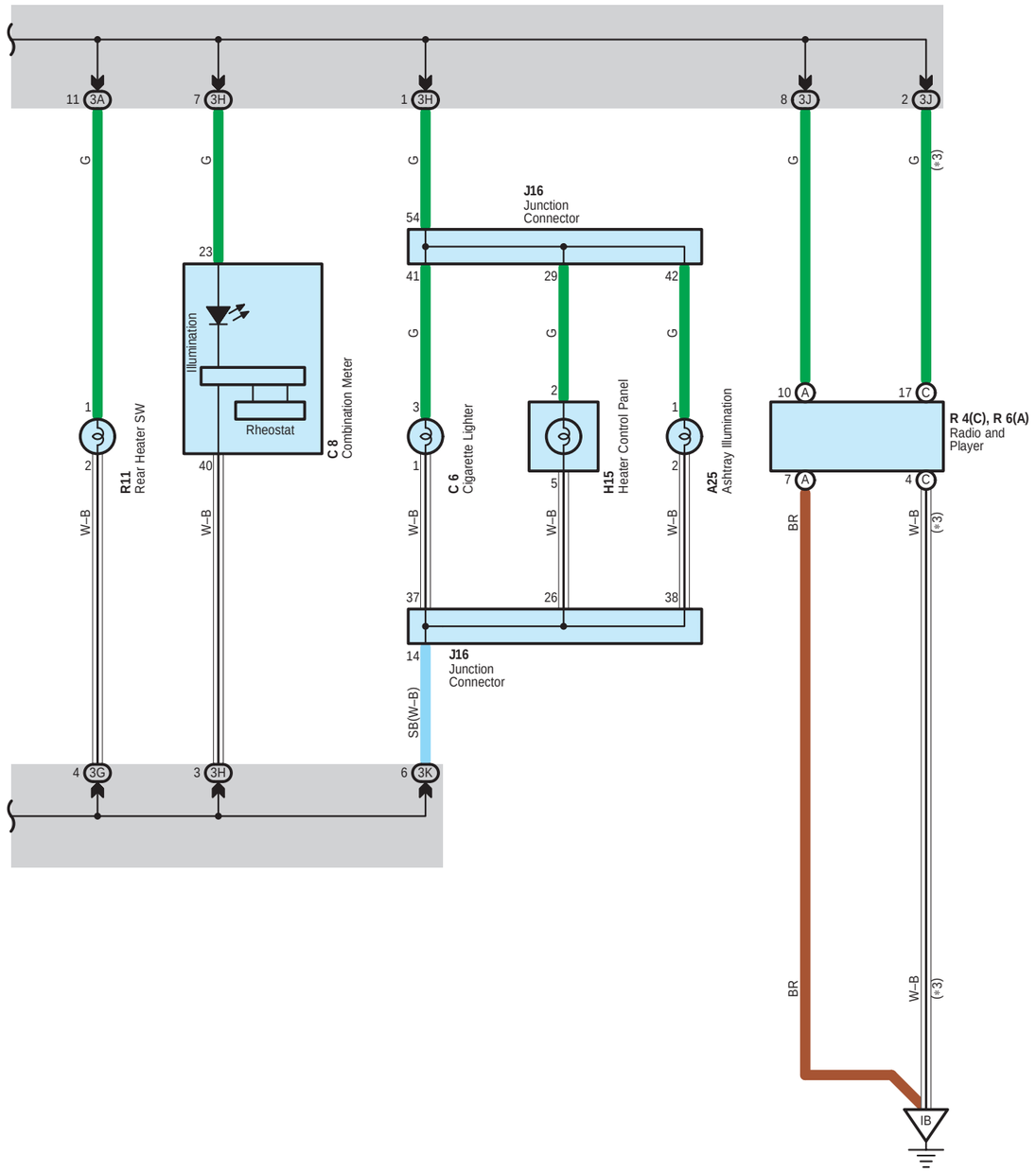


Illumination (RHD)

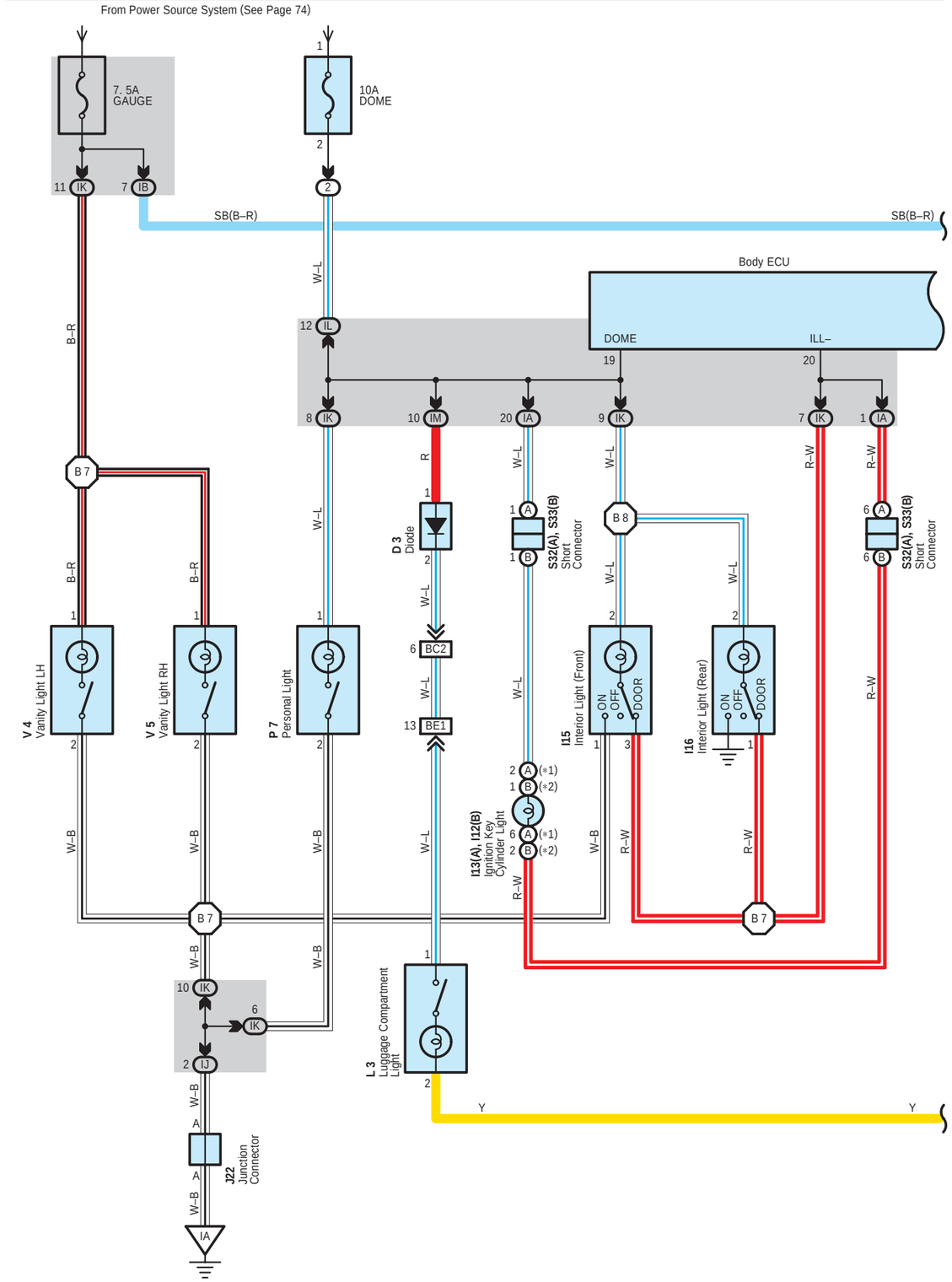
From Power Source System (See Page 74)

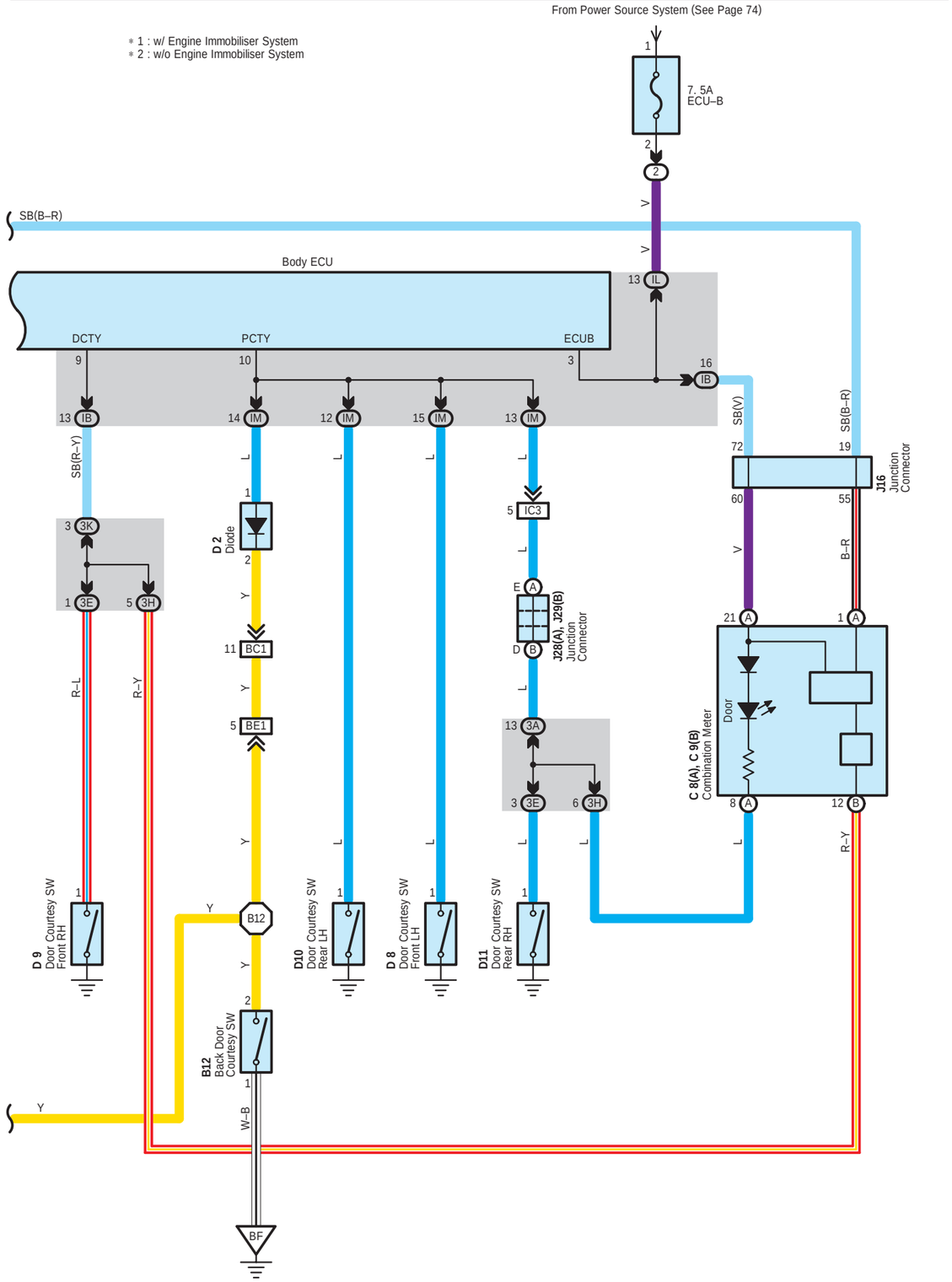


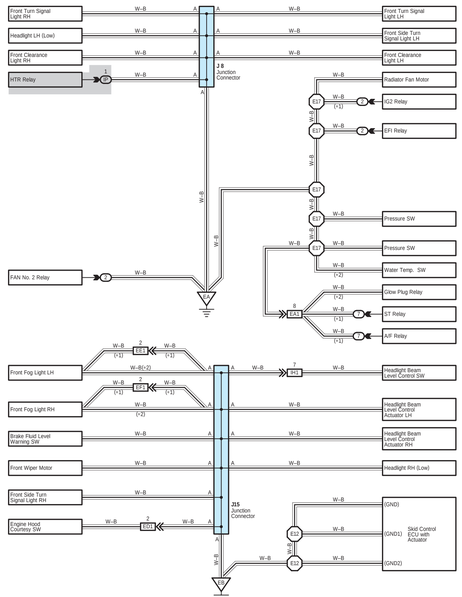
* 1 : Europe
* 2 : Except Europe
* 3 : w/ Display
* 4 : 1CD–FTV

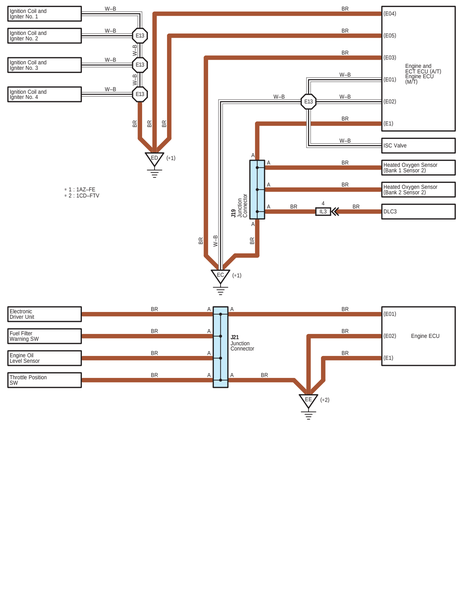


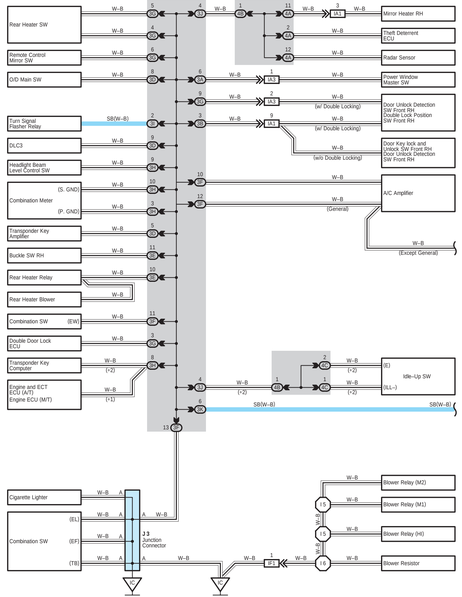
Interior Light (RHD)

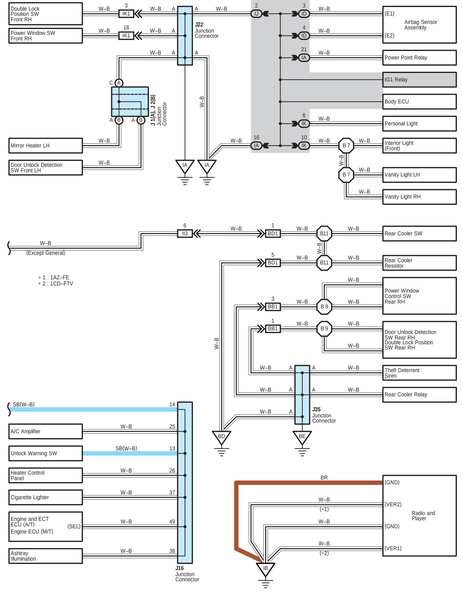


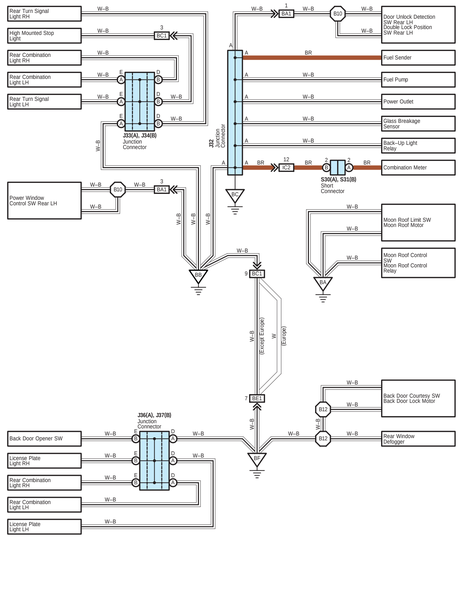



Front Turn Signal Light RH
Headlight LH (Low)
Front Clearance Light RH
RTR Relay
Front Turn Signal Light LH
Front Side Turn Signal Light LH
Front Clearance Light LH
J 8 Junction Connector
Radiator Fan Motor
A22 Relay
EFI Relay
Pressure SW
Pressure SW
Water Temp. SW
Glow Plug Relay
ST Relay
A/F Relay
FAN No. 2 Relay
Front Fog Light LH
Front Fog Light RH
Brake Fluid Level Warning SW
Front Wiper Motor
Front Side Turn Signal Light RH
Engine Hood Courtesy SW
Headlight Beam Level Control SW
Headlight Beam Level Control Actuator LH
Headlight Beam Level Control Actuator RH
Headlight RH (Low)
J15 Junction Connector
Skid Control ECU with Actuator
(GND0)
(GND1)
(GND2)

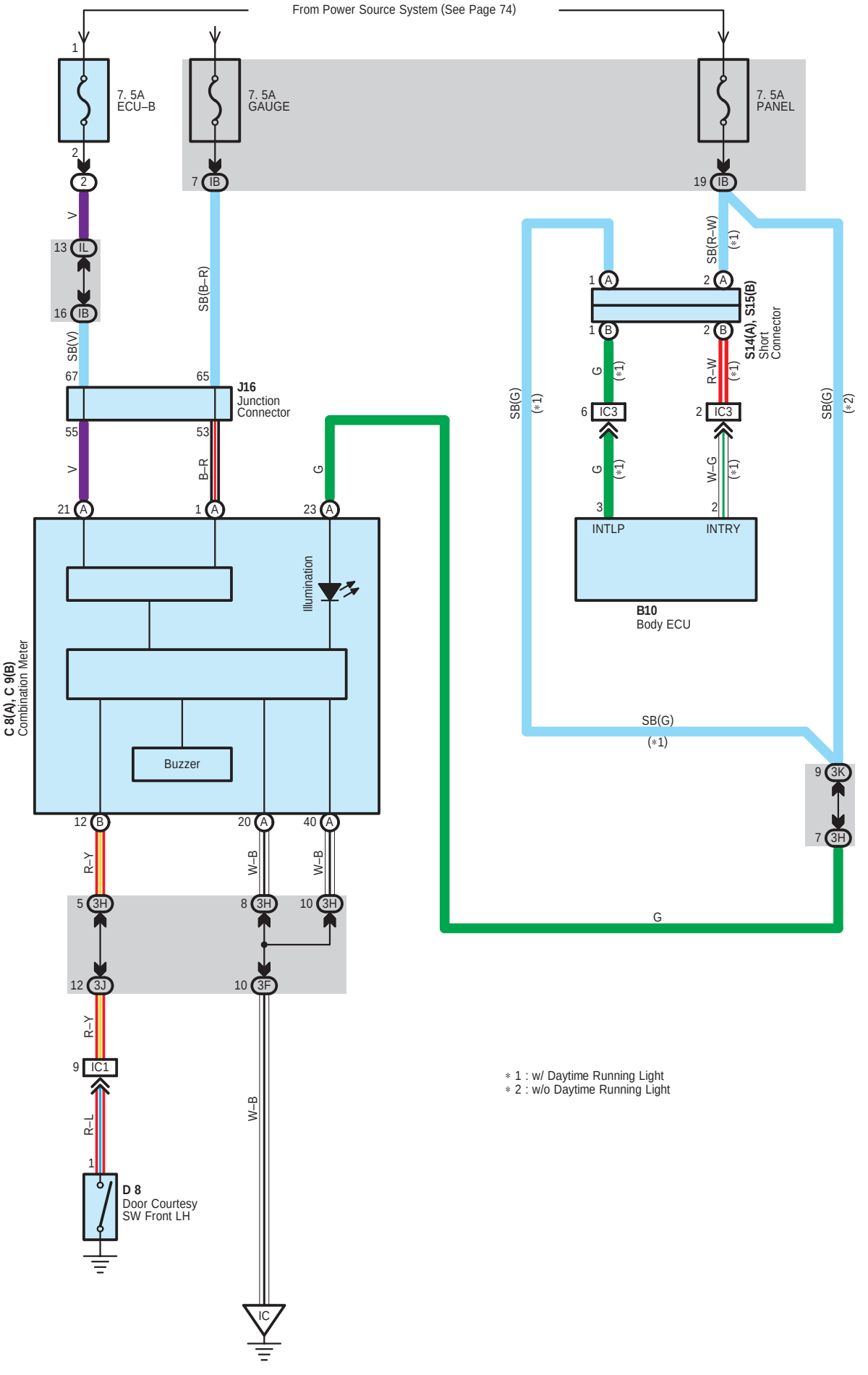

Ignition Coil and Igniter No. 1
Ignition Coil and Igniter No. 2
Ignition Coil and Igniter No. 3
Ignition Coil and Igniter No. 4
Engine and ECT ECU (A/T) Engine ECU (M/T)
SC Valve
Heated Oxygen Sensor (Bank 1 Sensor 2)
Heated Oxygen Sensor (Bank 2 Sensor 2)
DLC3
J19 Junction Connector
+ 1 : 1AZ–FE
+ 2 : 1CD–FTV
Electronic Driven Unit
Fuel Filter Warning SW
Engine Oil Level Sensor
Throttle Position SW
J21 Junction Connector
Engine ECU


Rear Heater SW
Remote Control Mirror SW
O/D Main SW
Turn Signal Flasher Relay
DLC3
Headlight Beam Level Control SW
Combination Meter (S. GND)
Combination Meter (P. GND)
Transponder Key Amplifier
Buckle SW RH
Rear Heater Relay
Rear Heater Blower
Combination SW (IEW)
Double Door Lock ECU
Transponder Key Computer
Engine and ECT ECU (A/T) Engine ECU (M/T)
Cigarette Lighter
Combination SW (EL)
Combination SW (EF)
Combination SW (TB)
J13 Junction Connector
Mirror Heater RH
Theft Deterrent ECU
Radar Sensor
Power Window Master SW
Door Unlock Detection SW Front RH
Double Lock Position SW Front RH
Door Key lock and Unlock Warning SW
Door Unlock Detection SW Front RH
A/C Amplifier
Idle–Up SW
Blower Relay (M2)
Blower Relay (M1)
Blower Relay (HI)
Blower Resistor

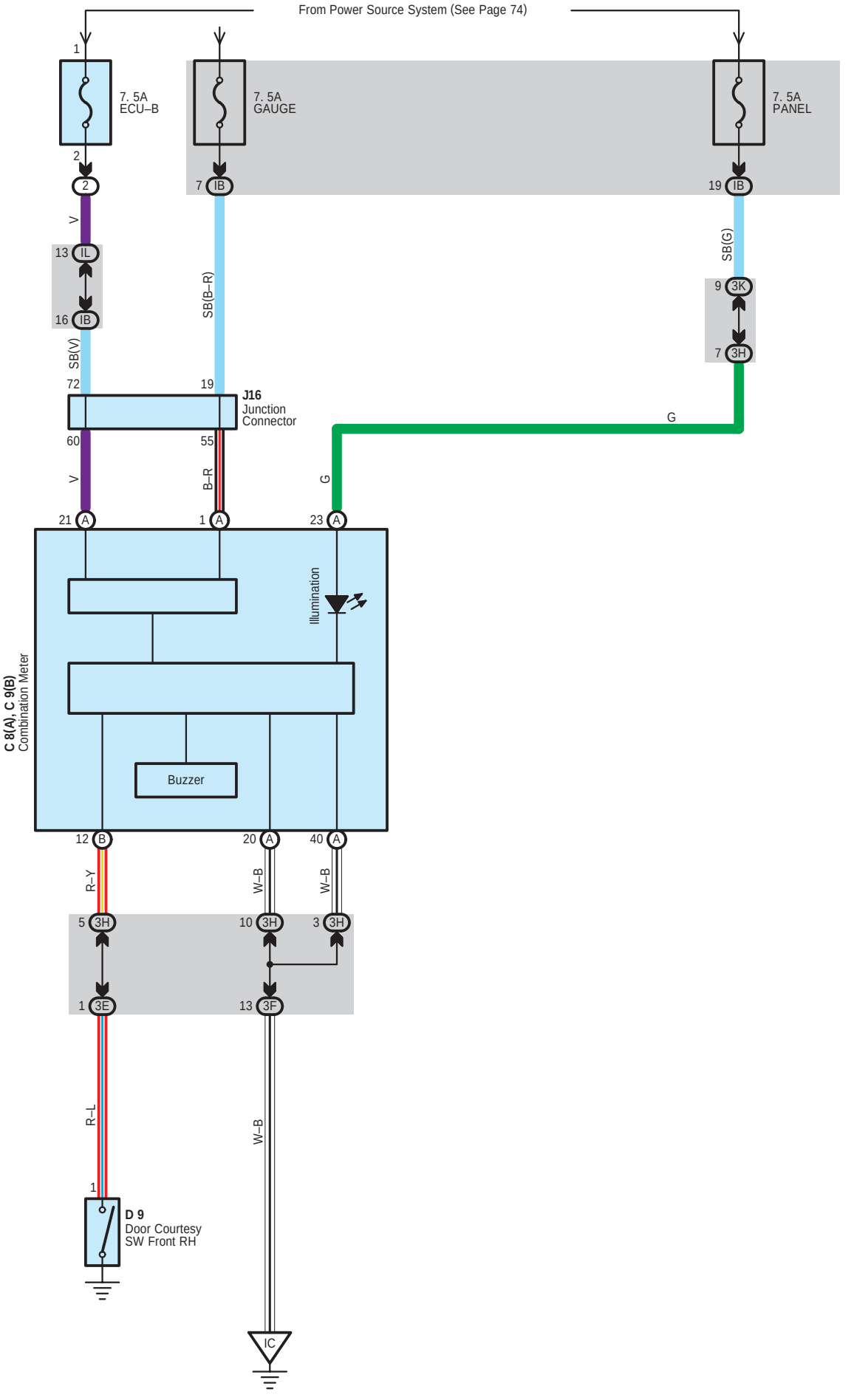

Double Lock Position SW Front RH
Power Window SW Front RH
J22 Junction Connector
Airbag Sensor Assembly
Power Point Relay
IG1 Relay
Body ECU
Personal Light
Interior Light (Drive)
Vanity Light LH
Vanity Light RH
Mirror Heater LH
Door Unlock Detection SW Front LH
J14(A), J16(B) Junction Connector
+ 1 : 1AZ–FE
+ 2 : 1CD–FTV
Rear Cooler SW
Rear Cooler Resistor
Power Window Control SW Rear RH
Door Unlock Detection SW Rear RH
Door Unlock Position SW Rear RH
Theft Deterrent Siren
Rear Cooler Relay
J15 Junction Connector
A/C Amplifier
Unlock Warning SW
Heater Control Panel
Cigarette Lighter
Engine and ECT ECU (A/T) Engine ECU (M/T)
Ashtray Illumination
J16 Junction Connector
Radio and Player
(GND)
(VER2)
(VER1)


Rear Turn Signal Light RH
High Mounted Stop Light
Rear Combination Light RH
Rear Combination Light LH
Rear Turn Signal Light LH
J15(A), J14(B) Junction Connector
Power Window Control SW Rear LH
J22 Junction Connector
S39(A), S31(B) Short Connector
Door Unlock Detection SW Rear LH
Double Lock Position SW Rear LH
Fuel Sender
Fuel Pump
Power Outlet
Glass Breakage Sensor
Back–Up Light Relay
Combination Meter
Moon Roof Limit SW
Moon Roof Motor
Moon Roof Control Relay
Moon Roof Control Relay
Back Door Courtesy SW
Back Door Lock Motor
Rear Window Defogger
(Except Earth)
(EARTH)
J39(A), J17(B) Junction Connector
Back Door Opener SW
License Plate Light RH
Rear Combination Light RH
Rear Combination Light LH
License Plate Light LH

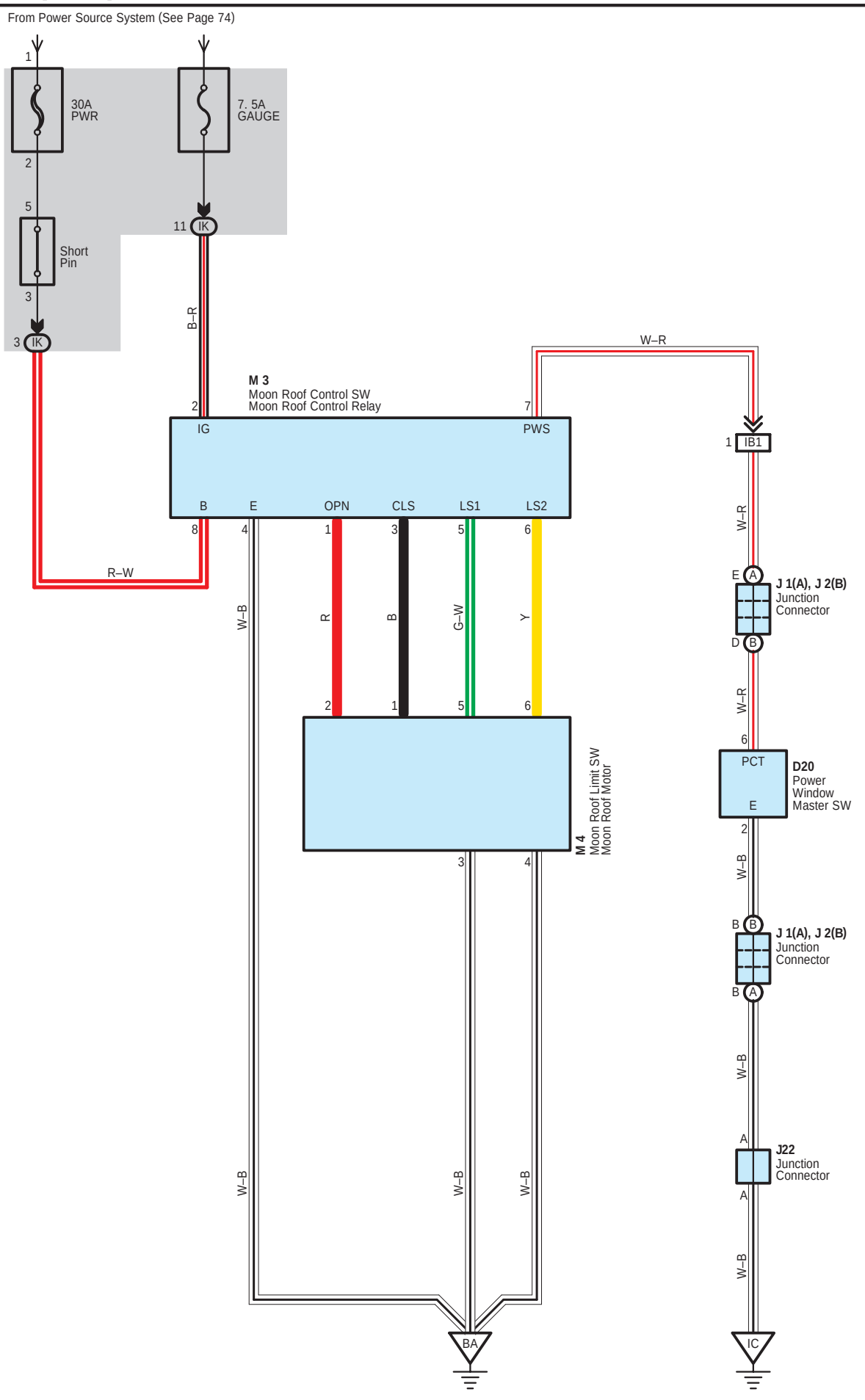
Light Reminder (LHD)



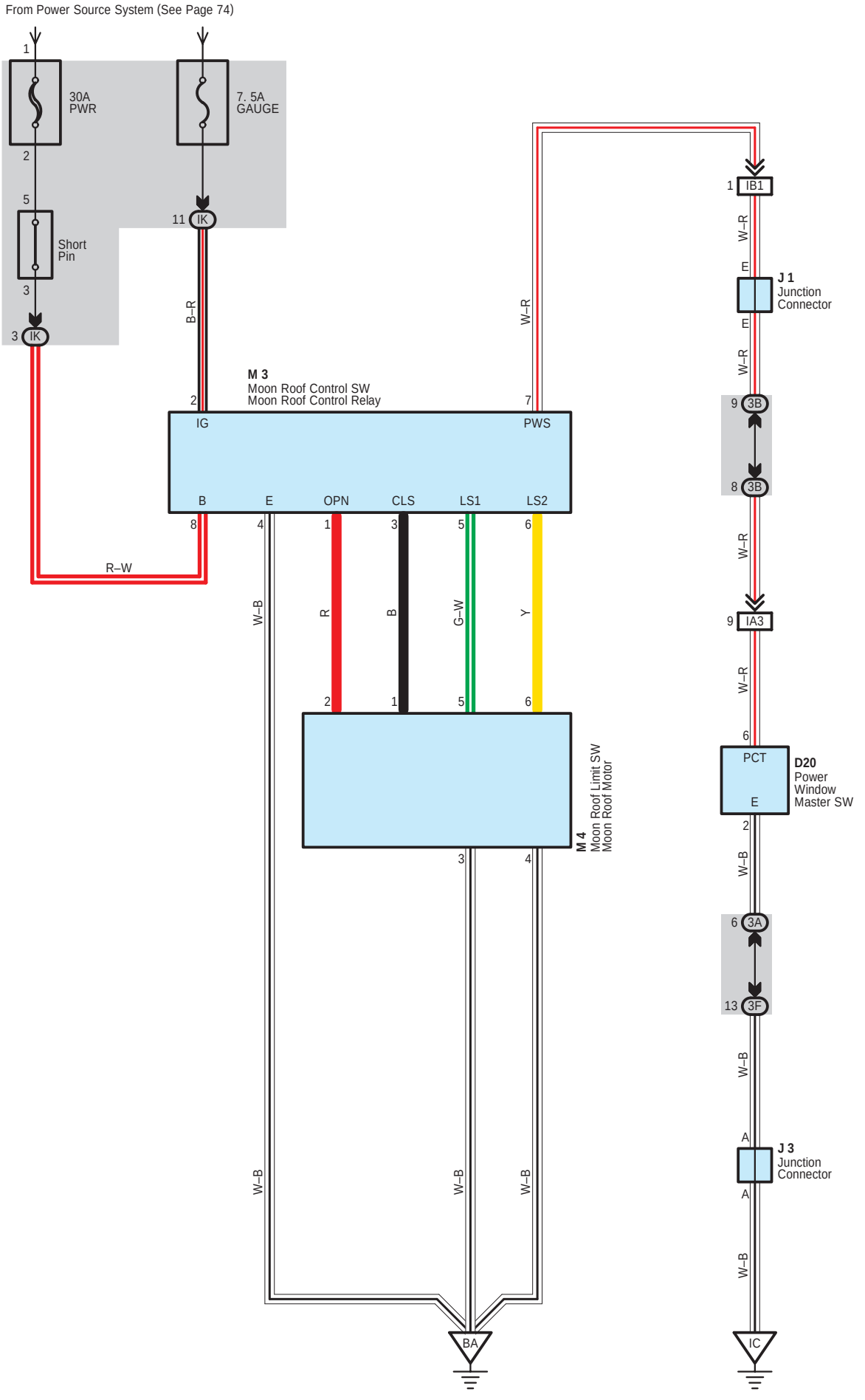
Light Reminder (RHD)



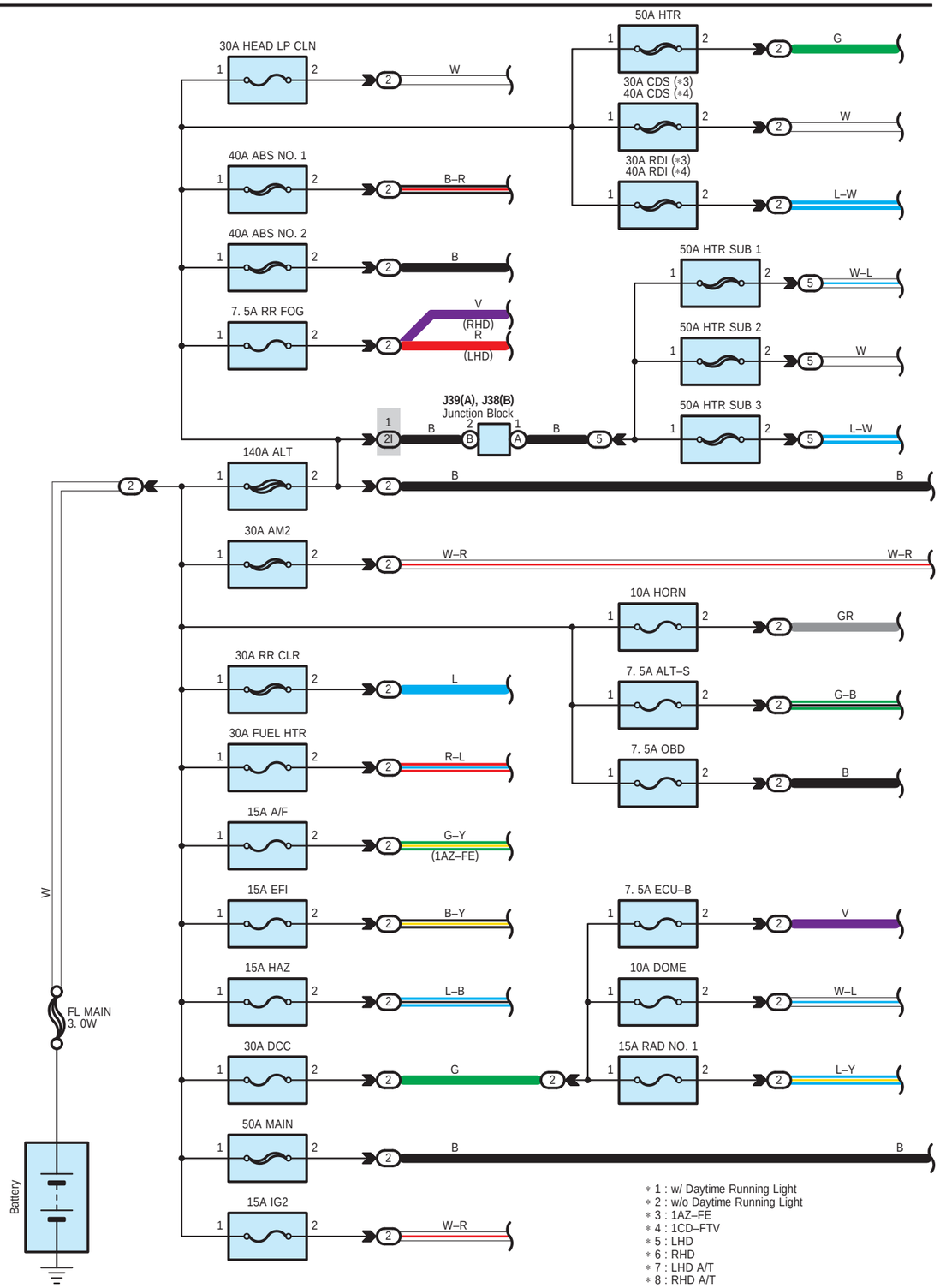
Moon Roof (LHD)

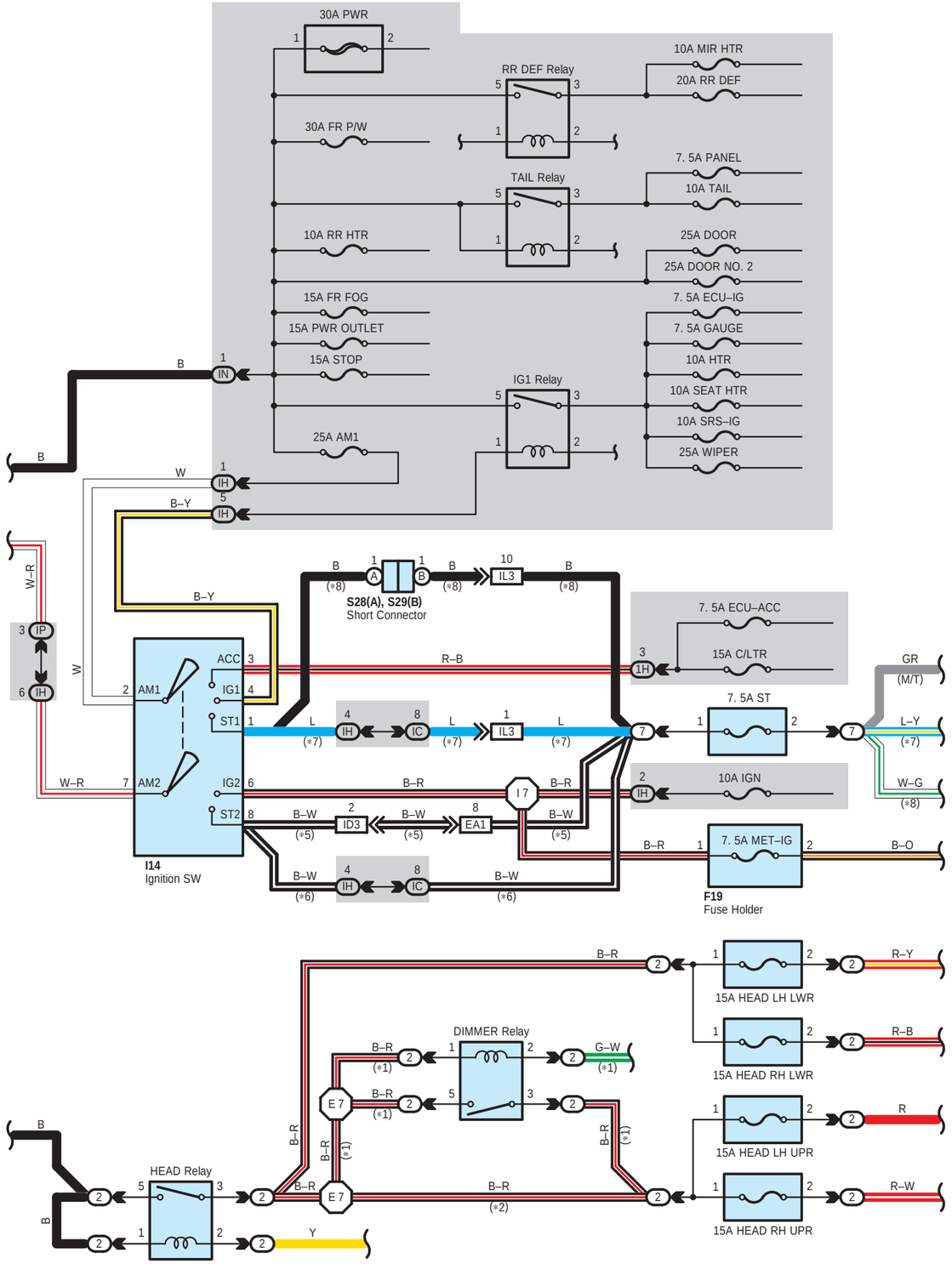


Moon Roof (RHD)

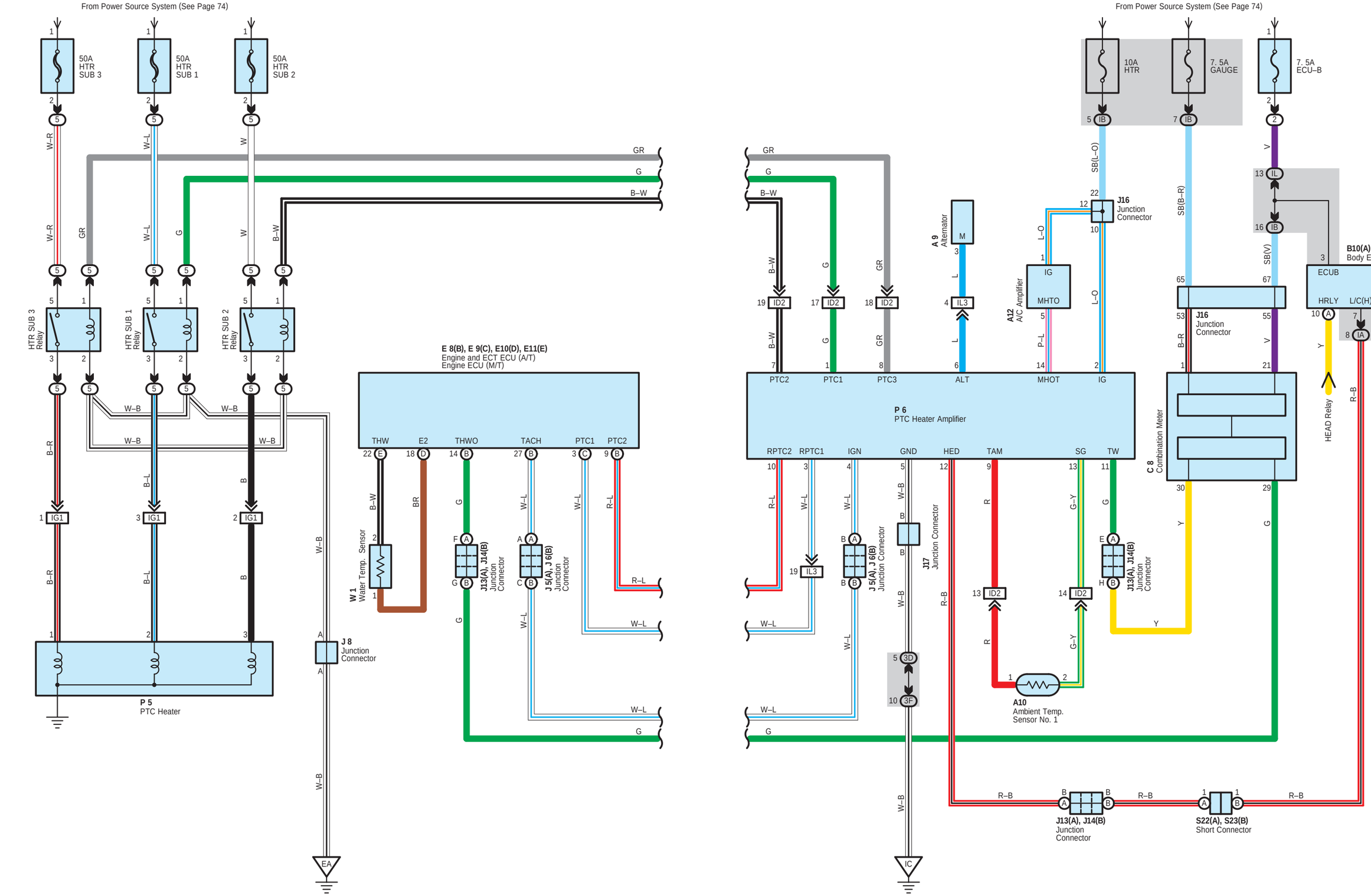


Power Source

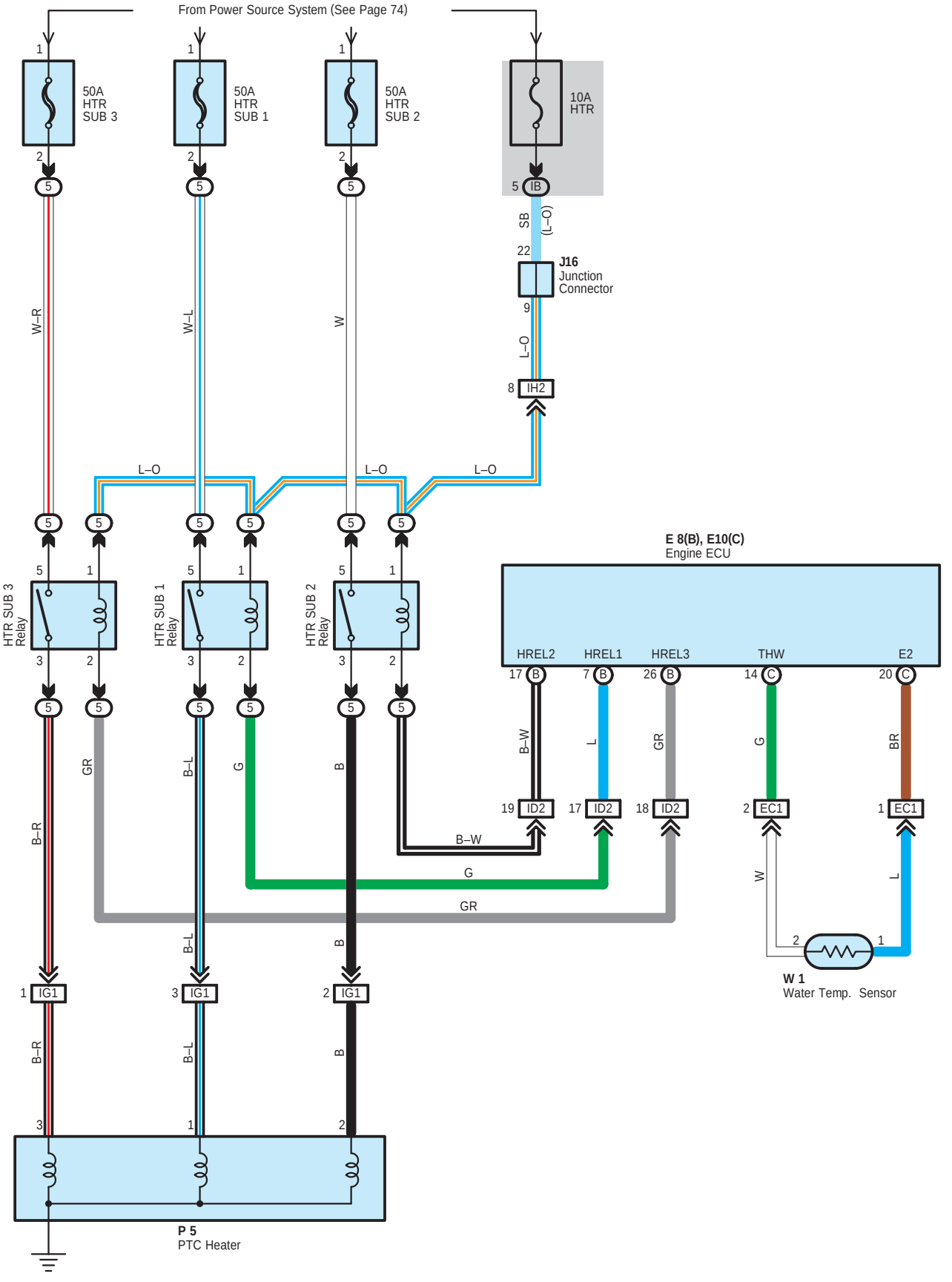




PTC Heater (LHD 1AZ–FE)

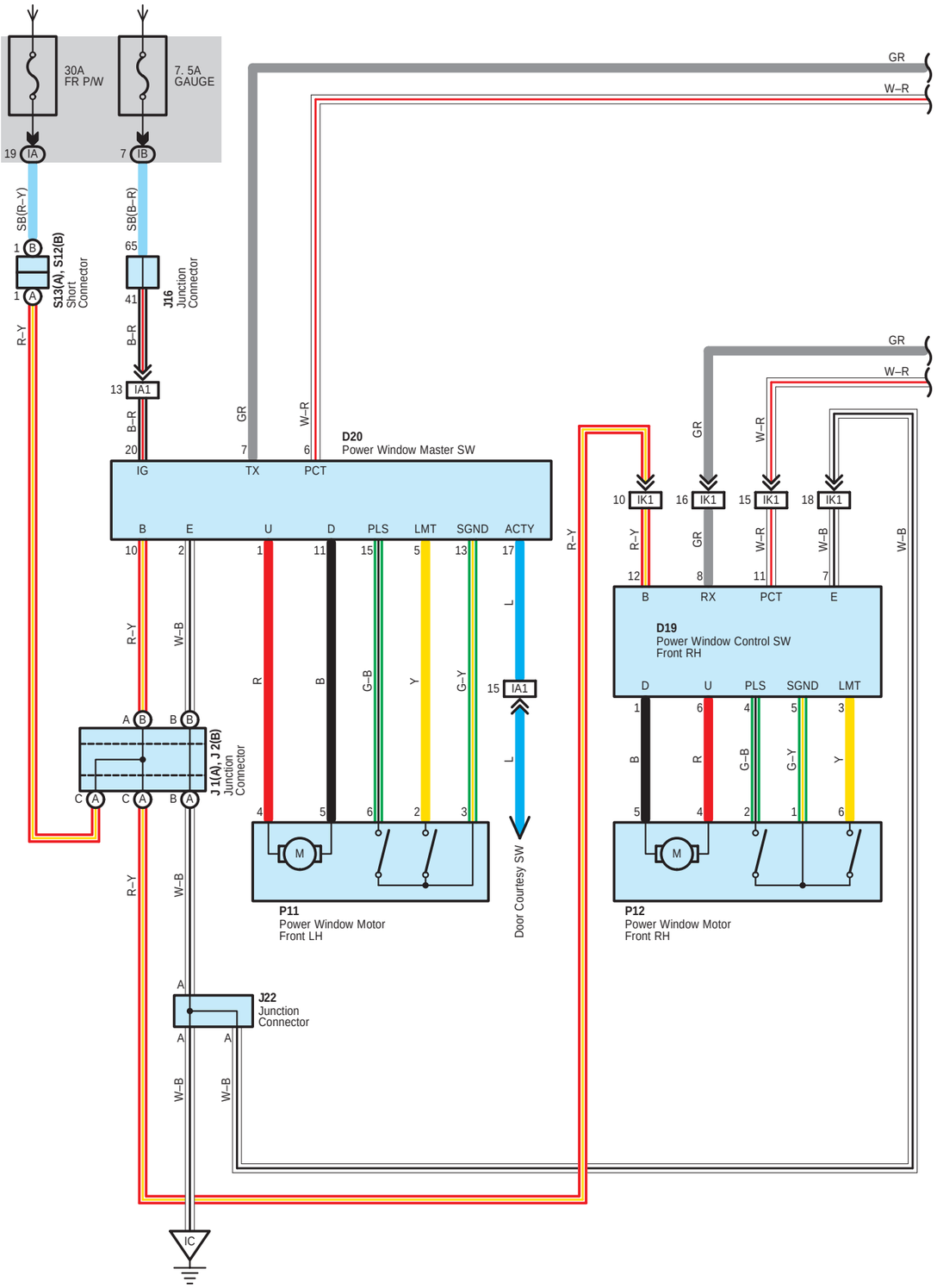


PTC Heater (LHD 1CD–FTV)

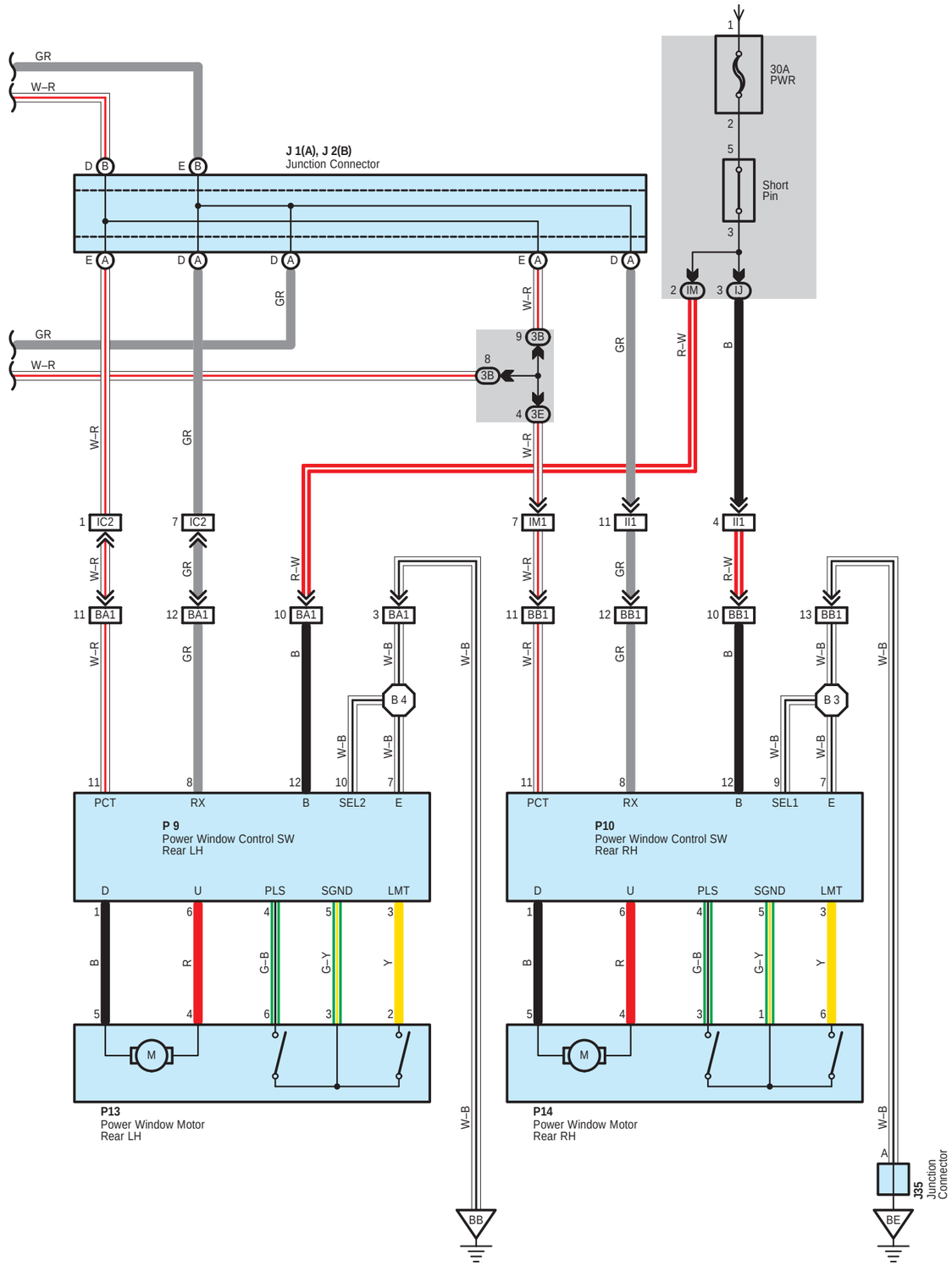


Power Window (LHD)

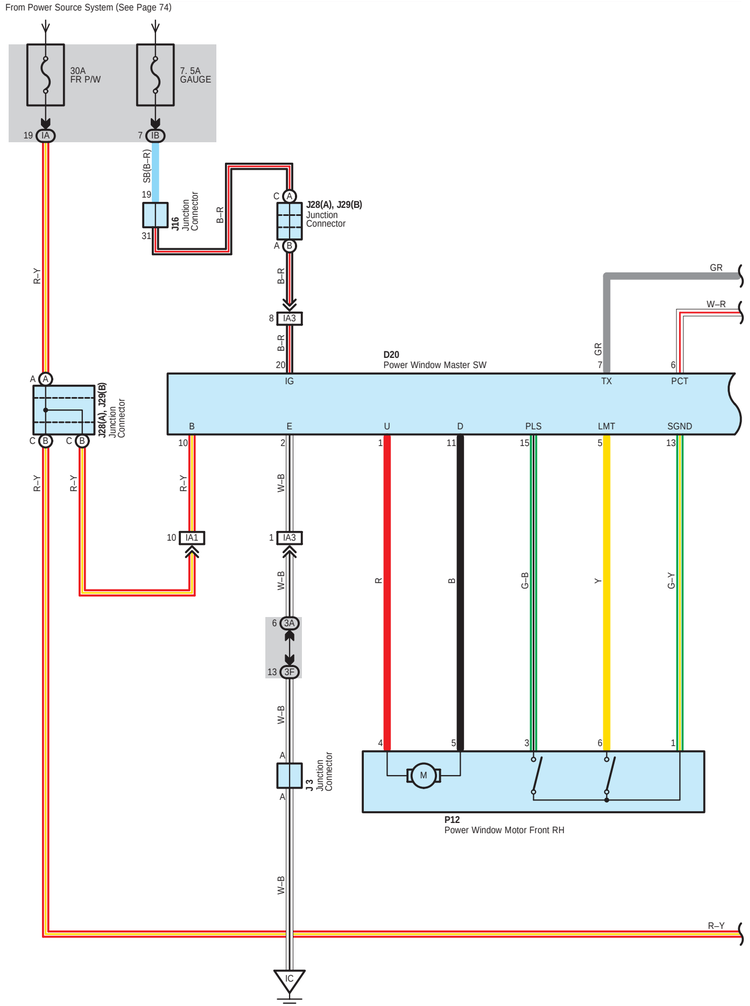
From Power Source System (See Page 74)

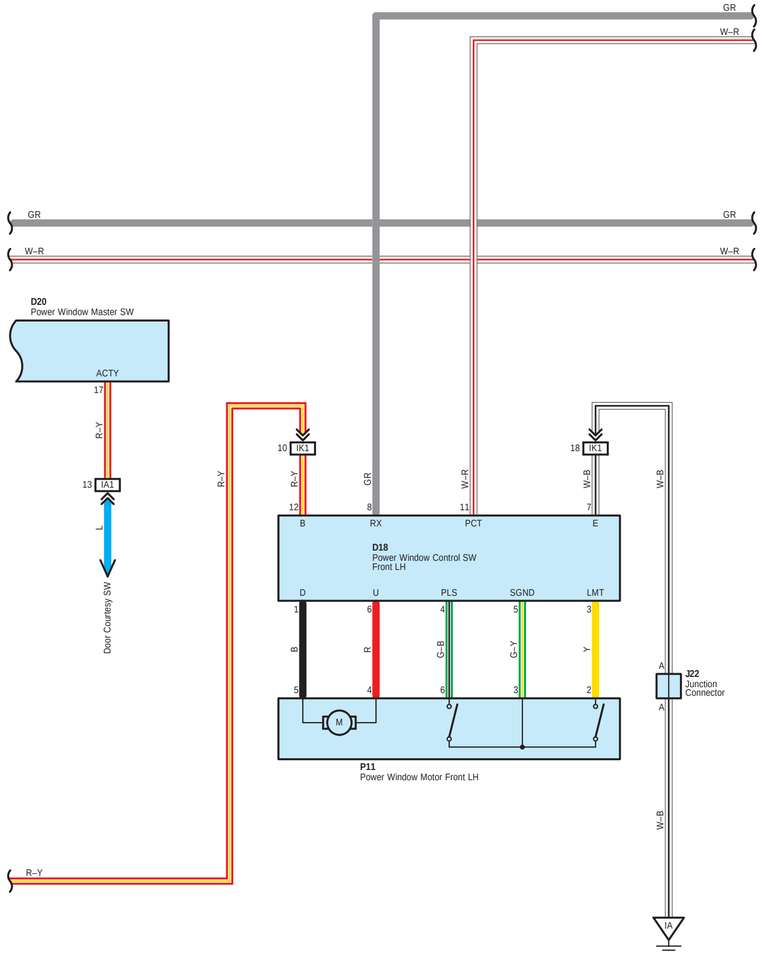


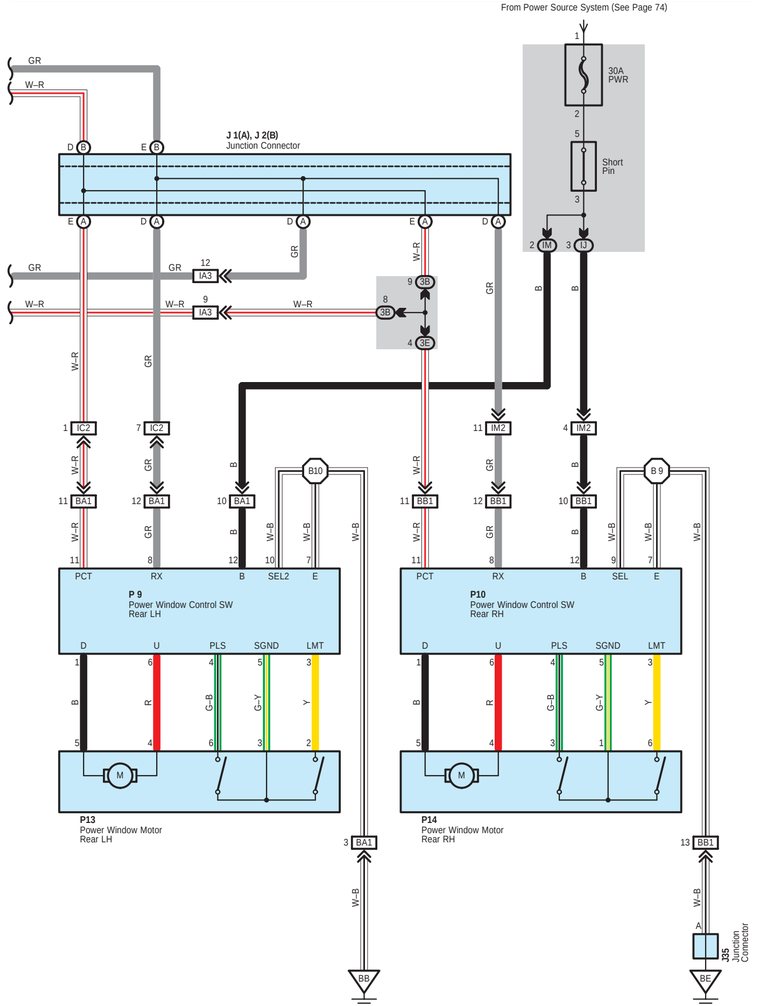
From Power Source System (See Page 74)



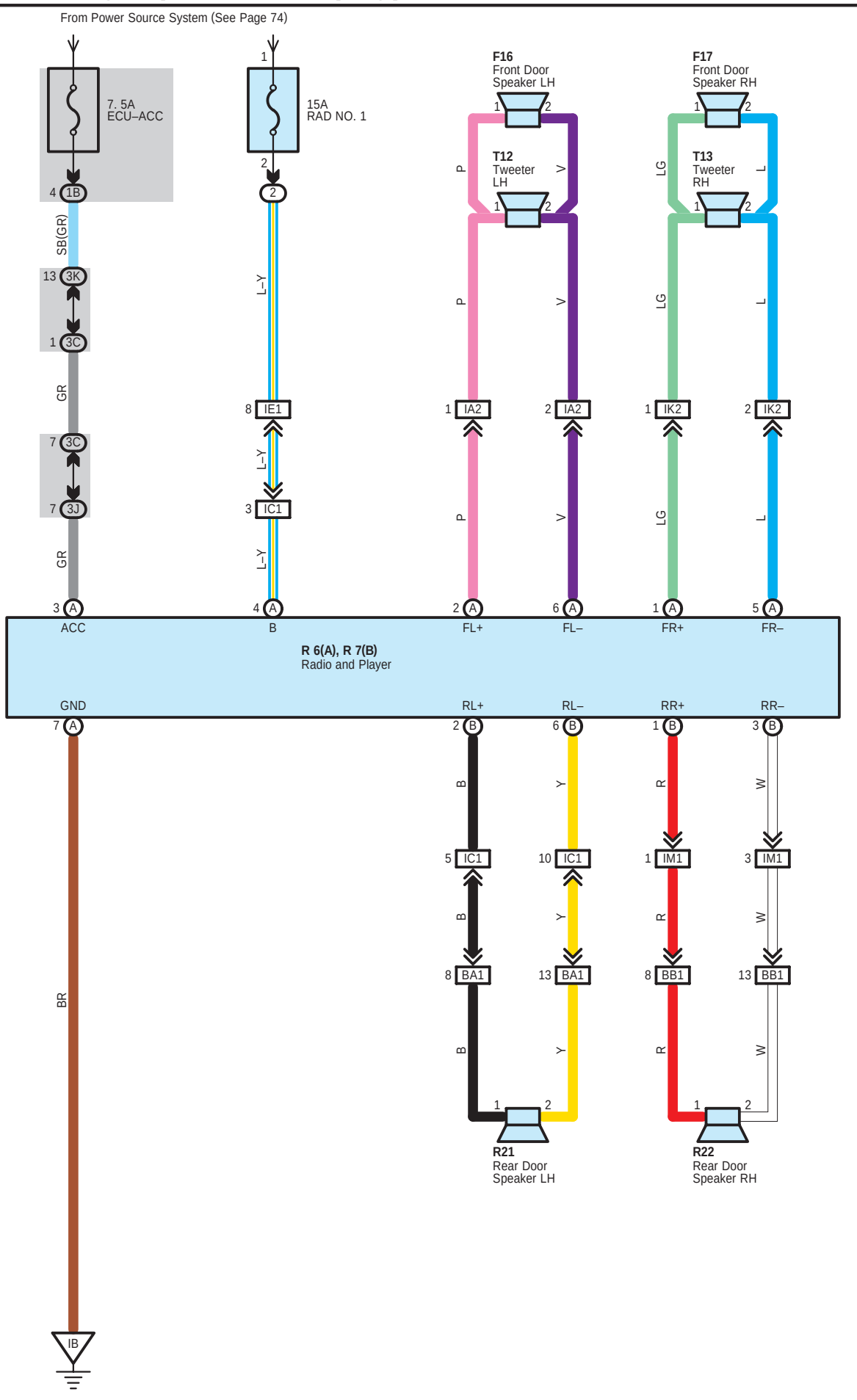
Power Window (RHD)



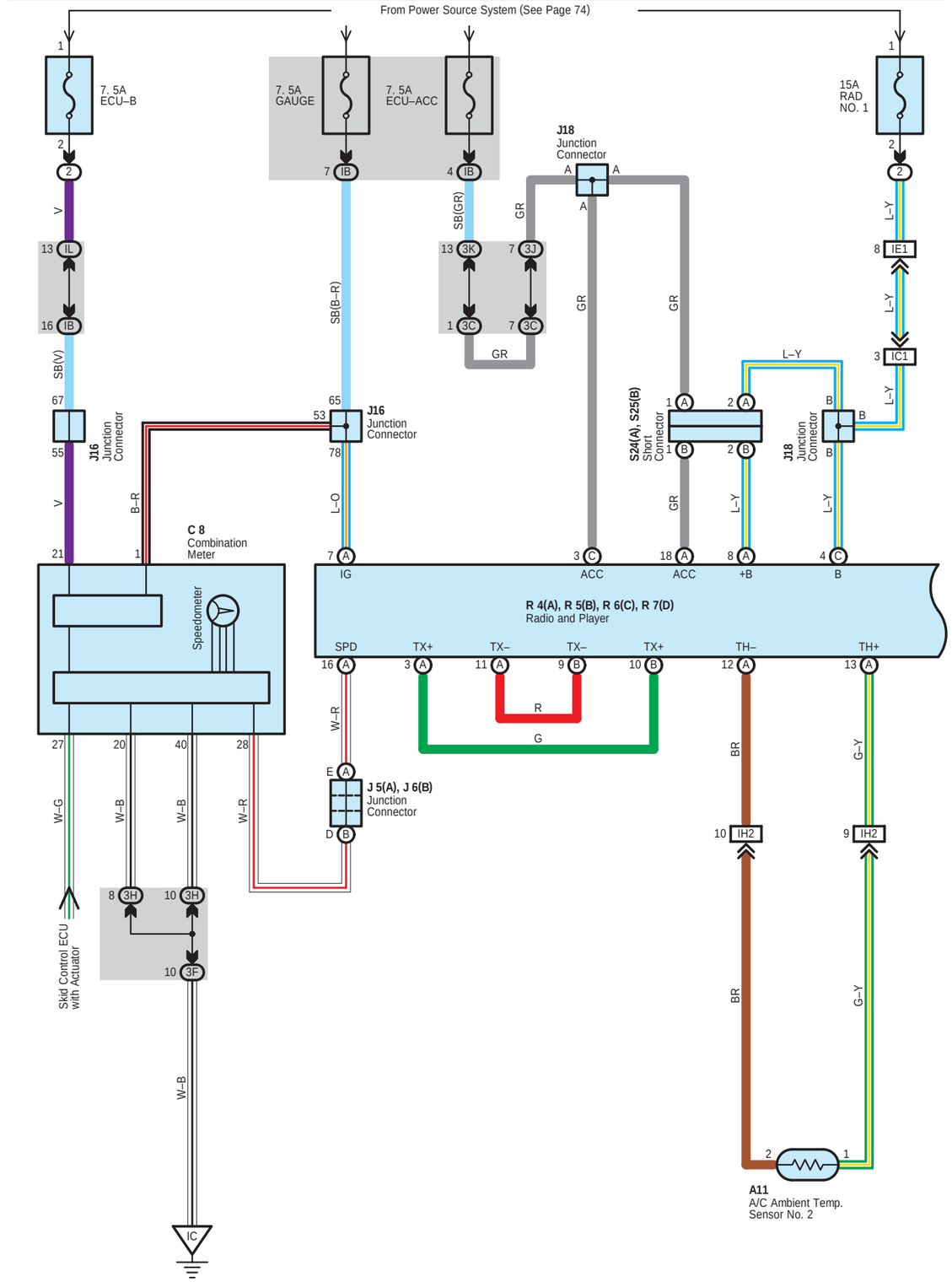


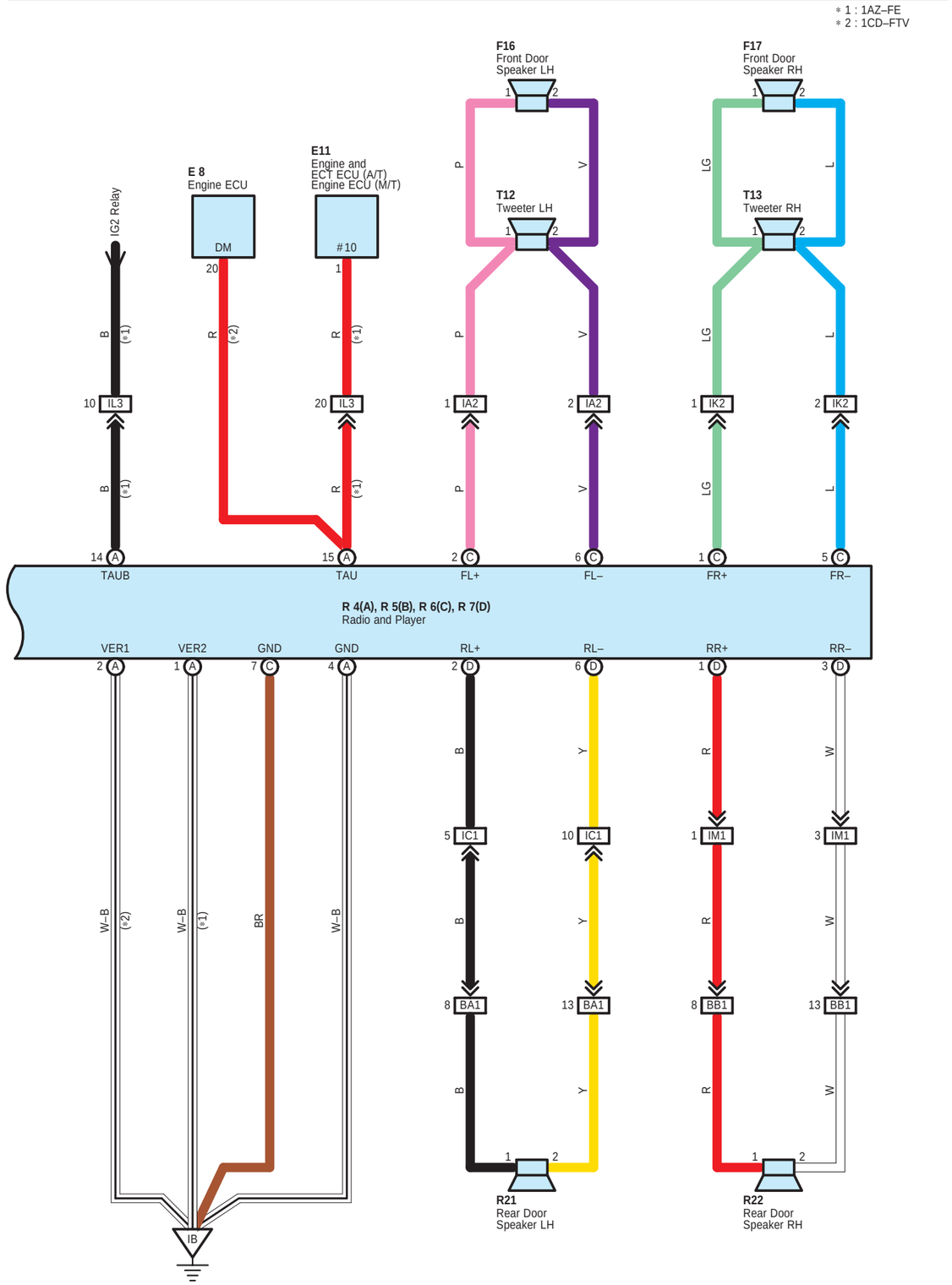


Radio and Player (LHD w/o Display)

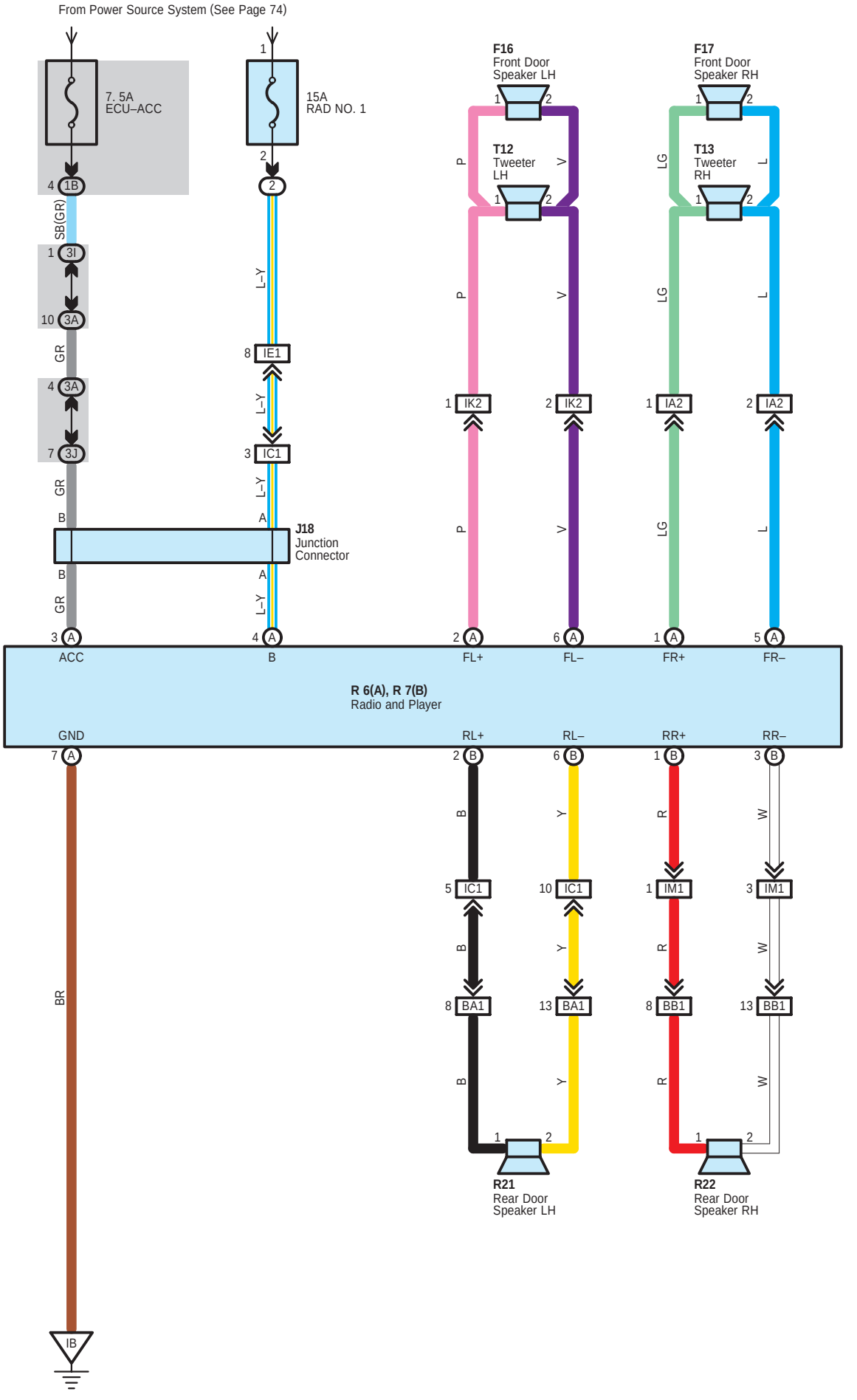


Radio and Player (LHD w/ Display)

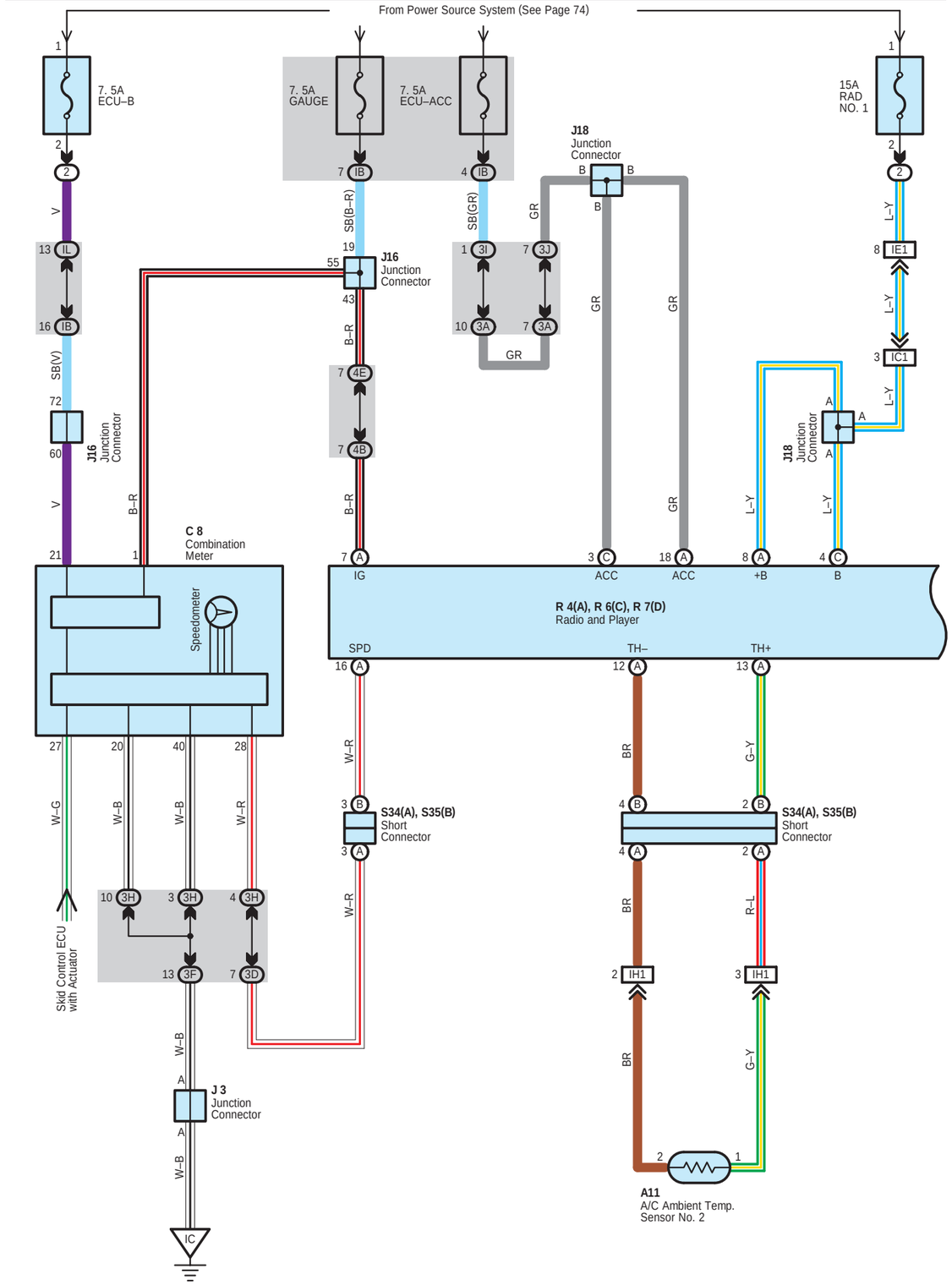




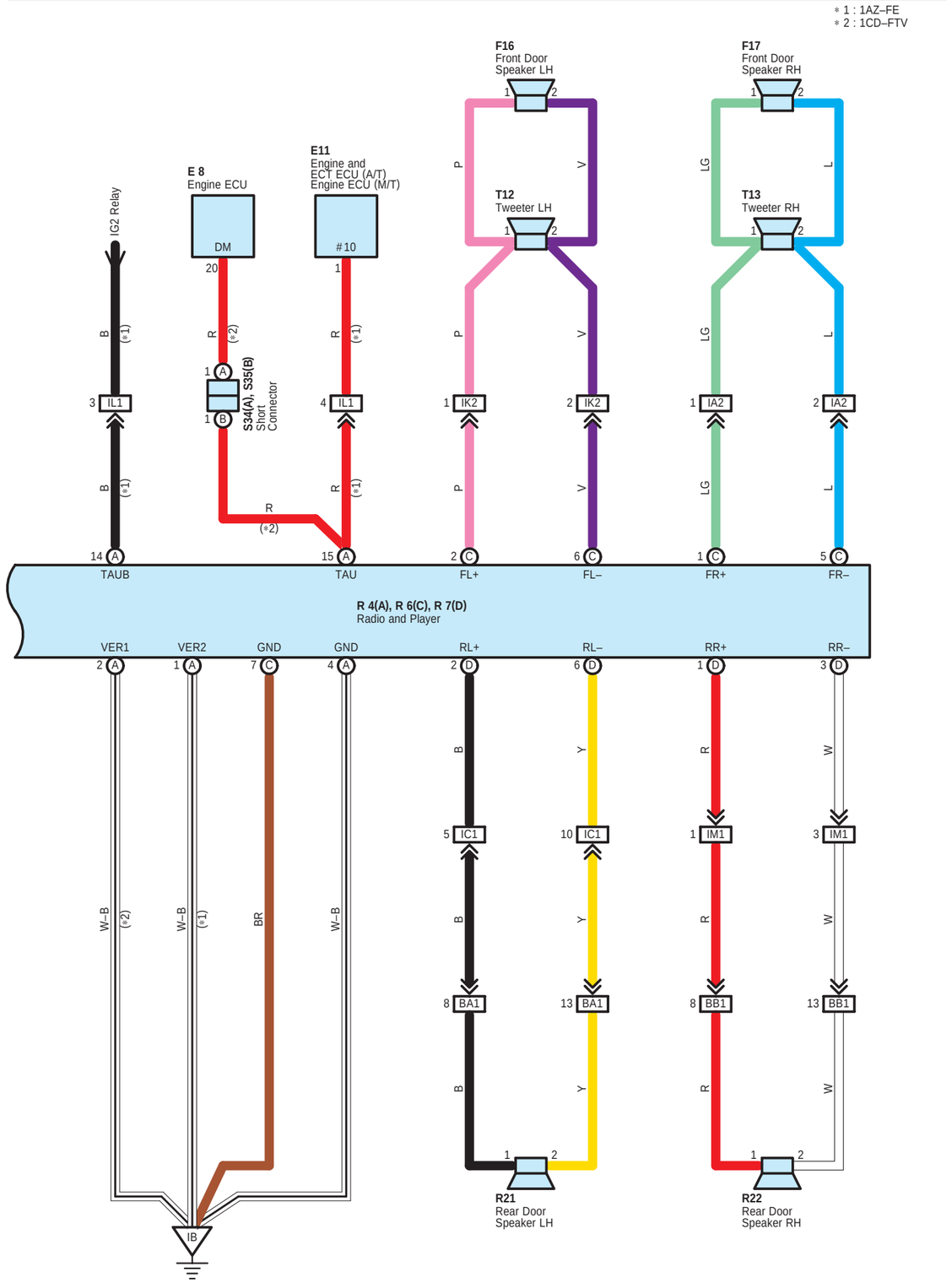
Radio and Player (RHD w/o Display)



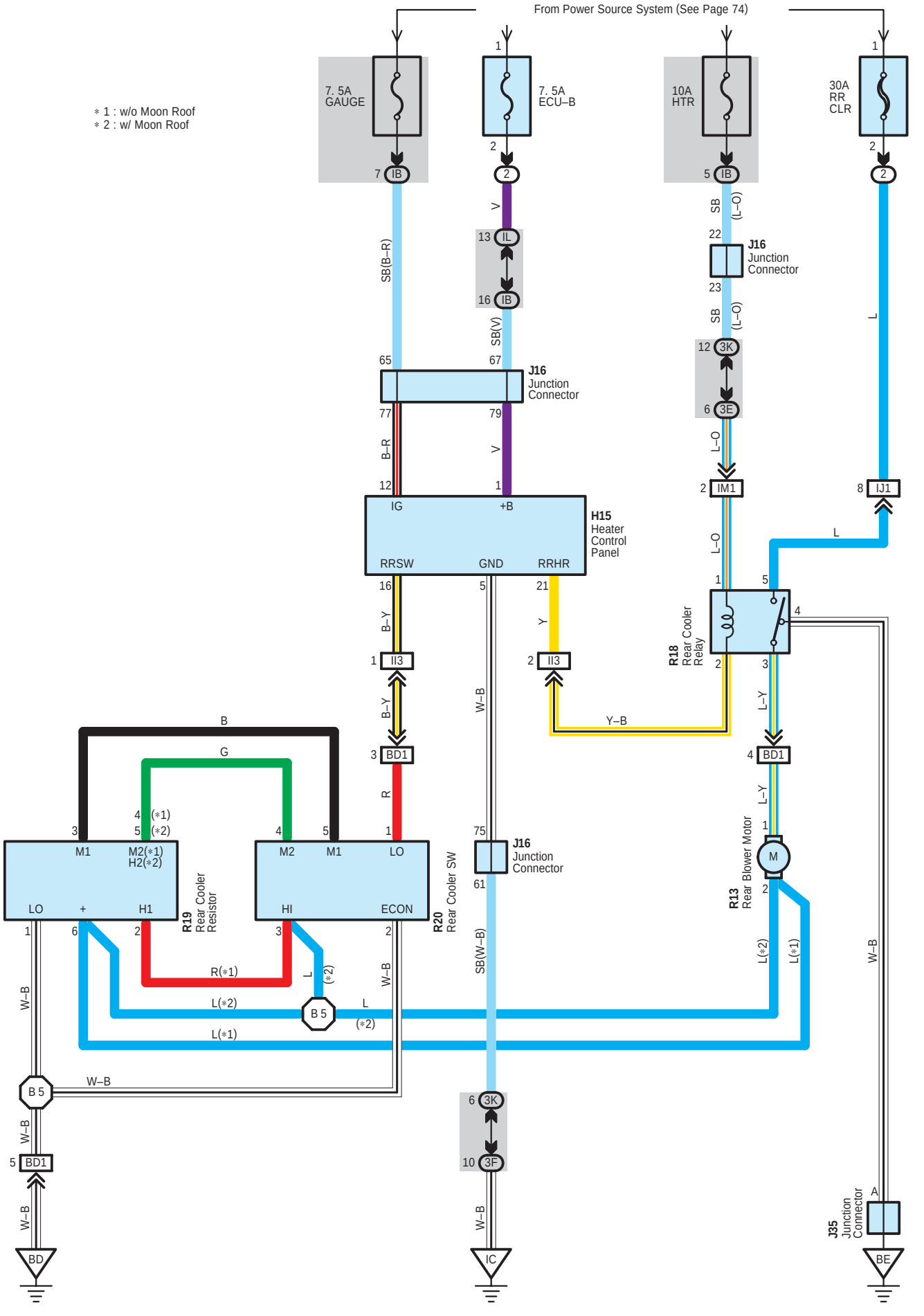
Radio and Player (RHD w/ Display)



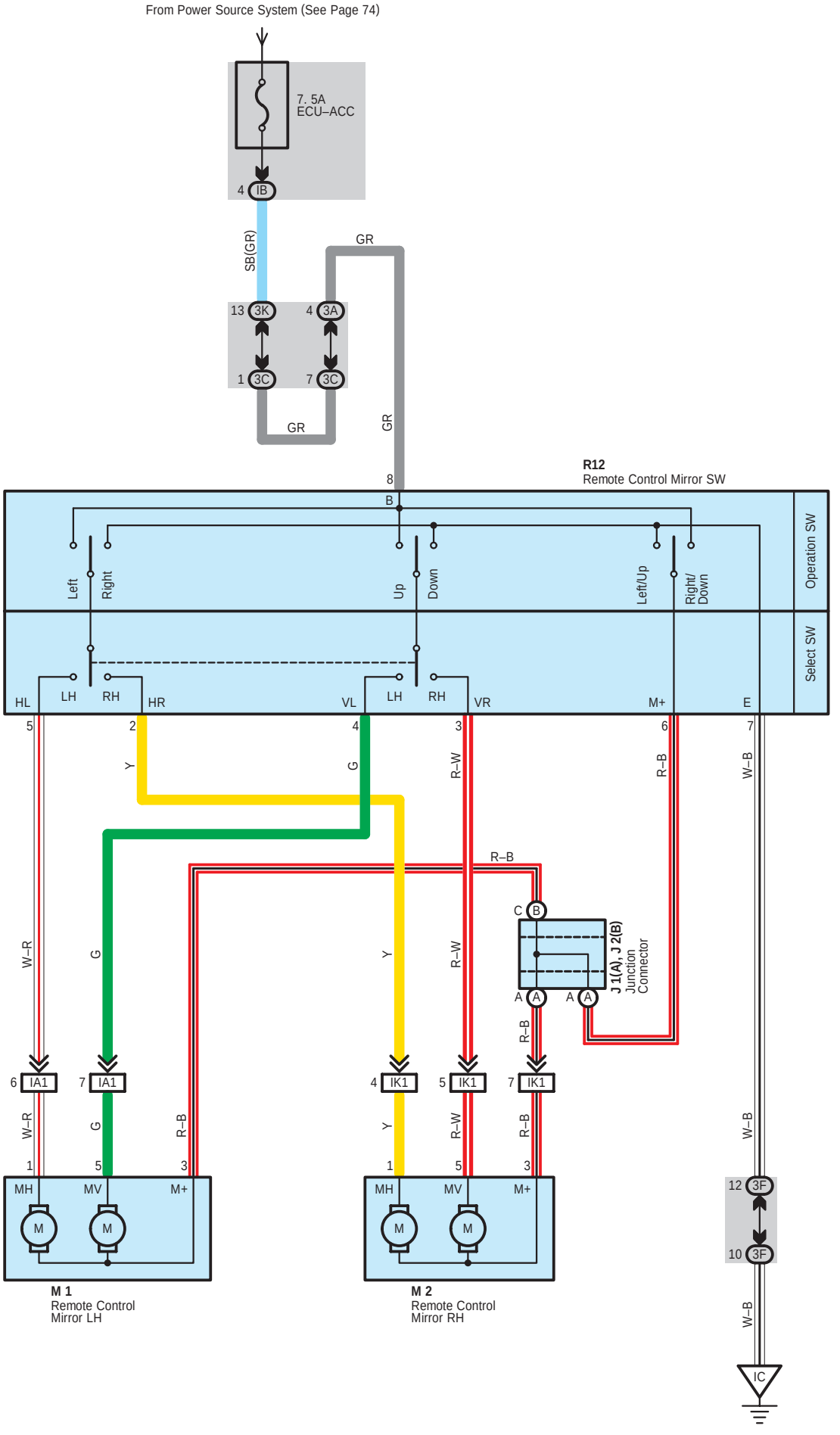
＊1 : 1AZ–FE
＊2 : 1CD–FTV



Rear Cooler (LHD)

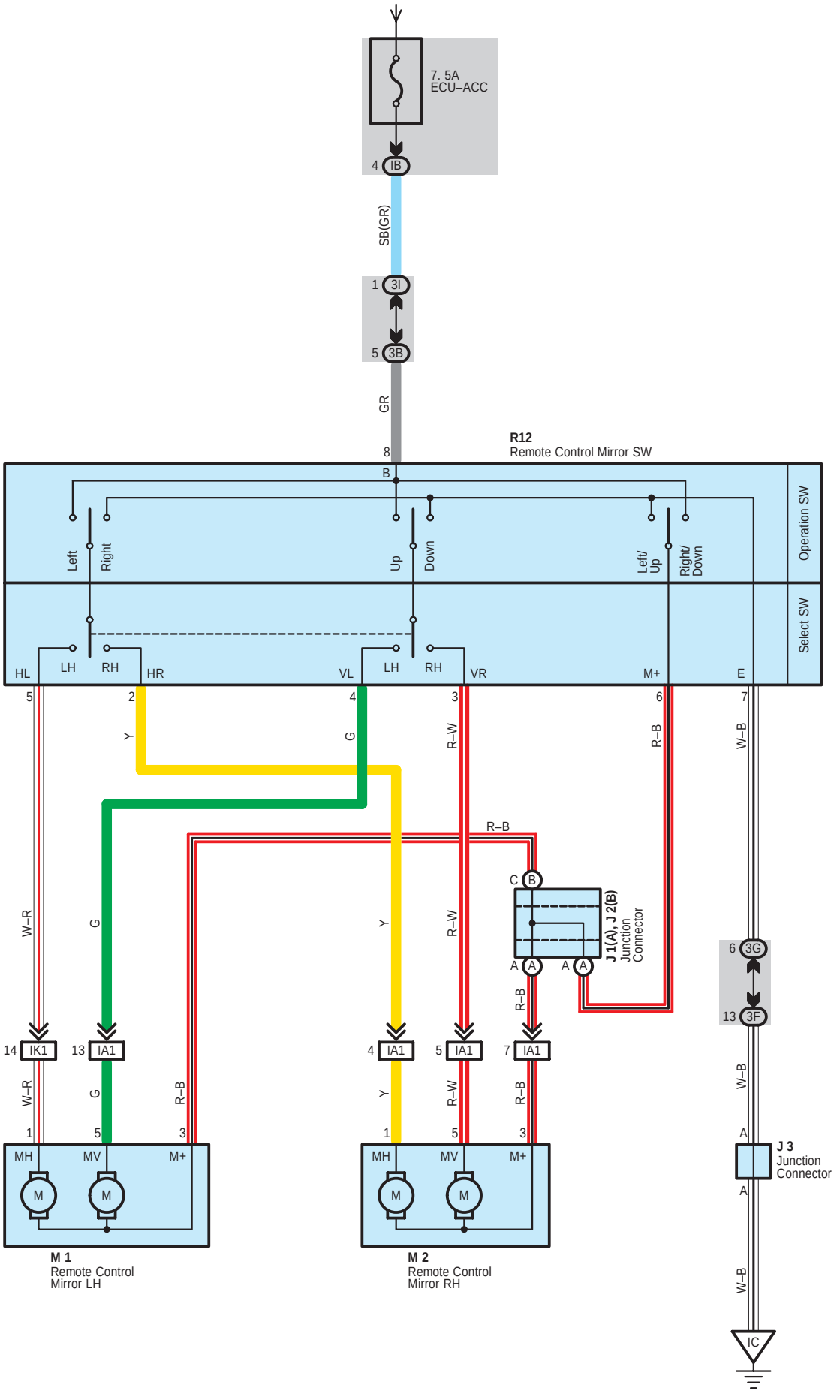


Remote Control Mirror (LHD)

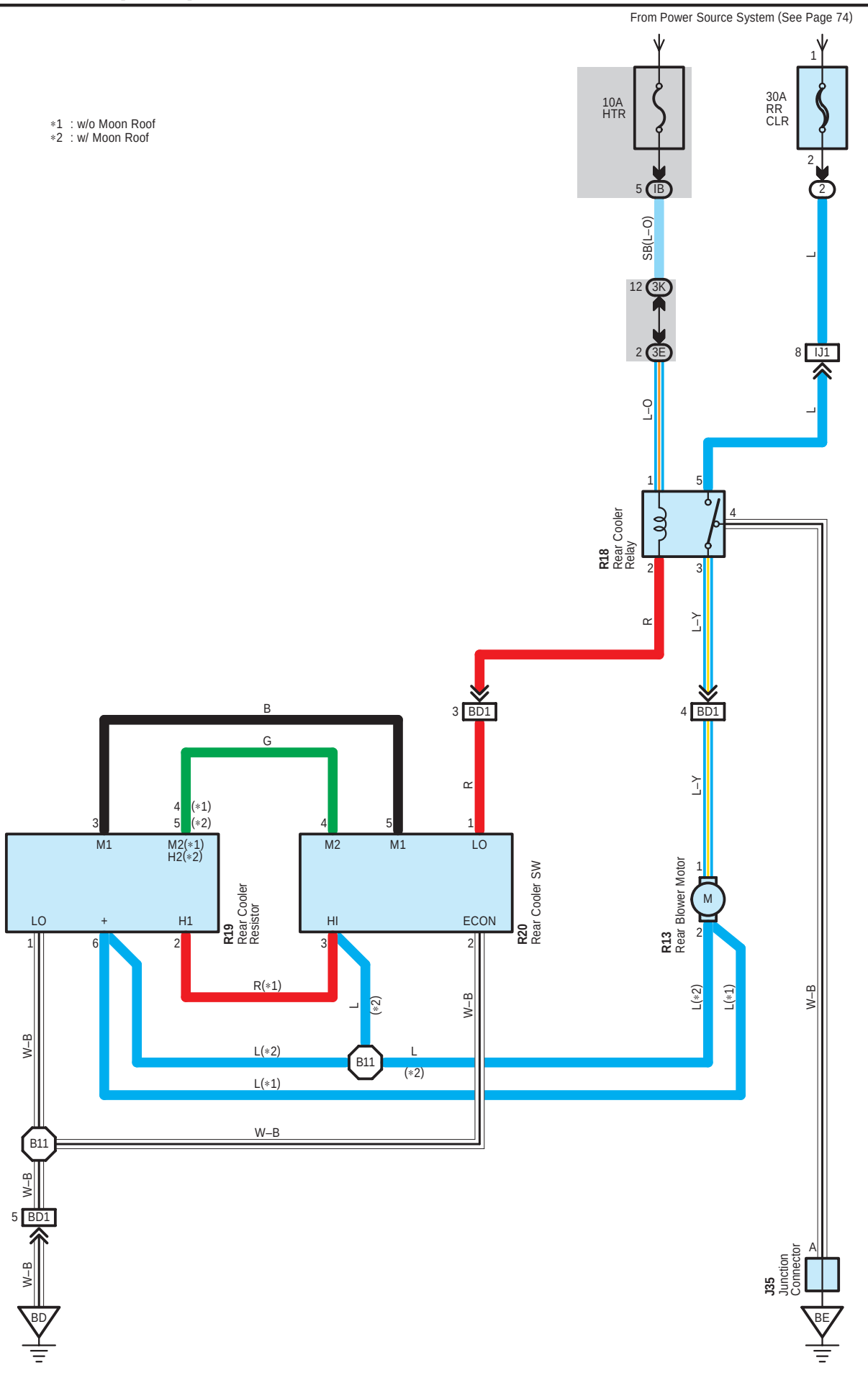


Remote Control Mirror (RHD)

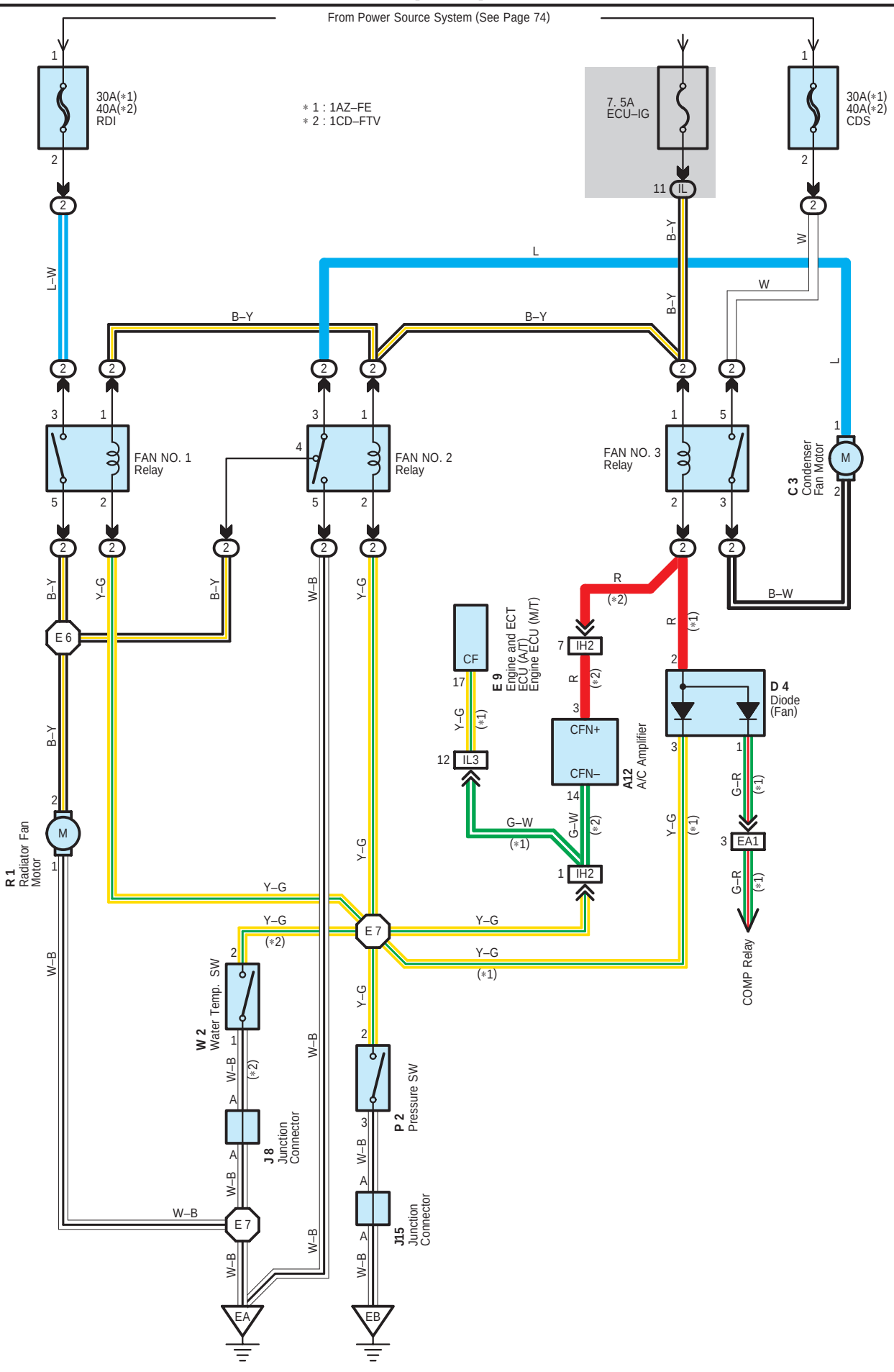
From Power Source System (See Page 74)



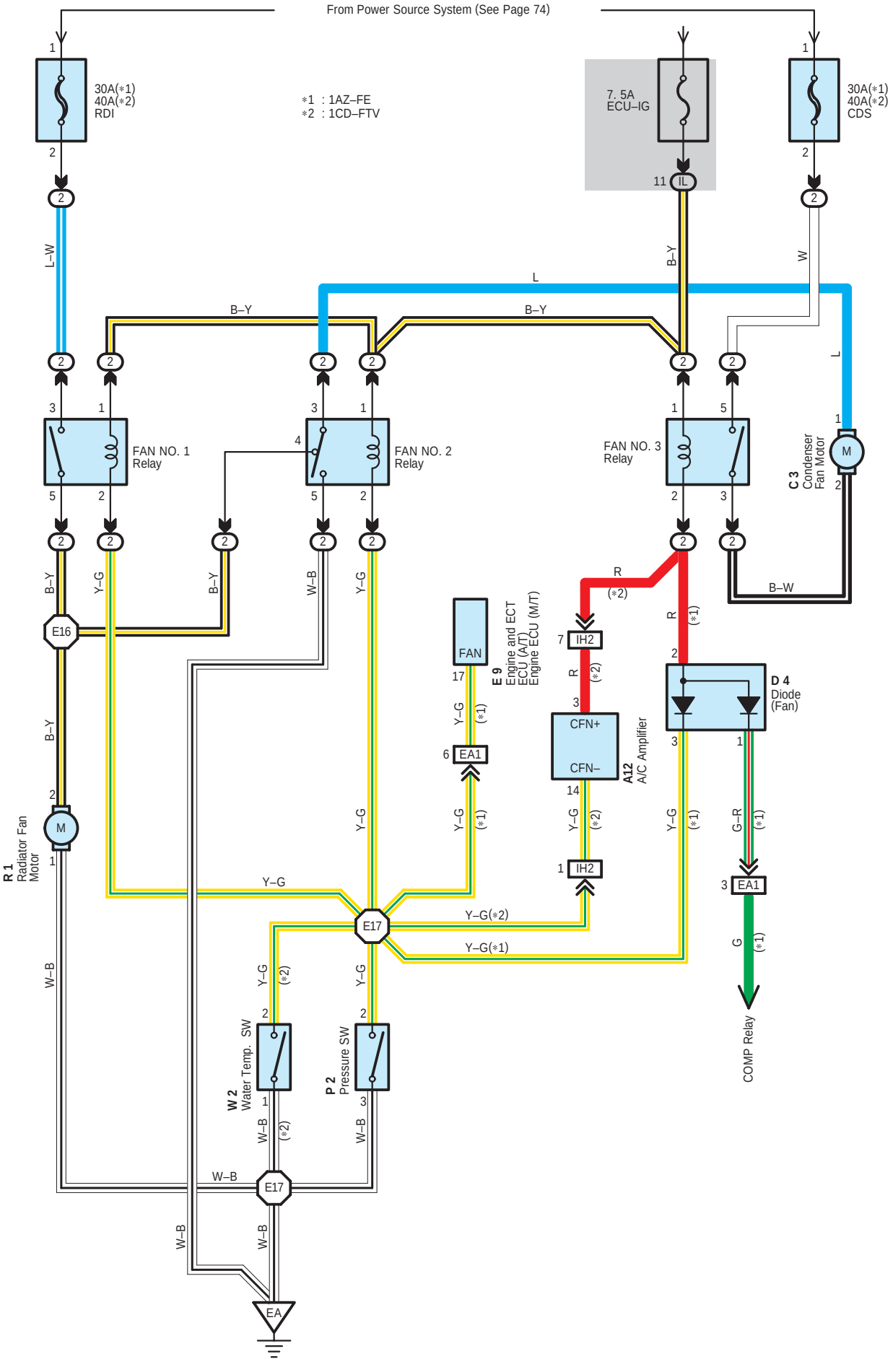
Rear Cooler (RHD)



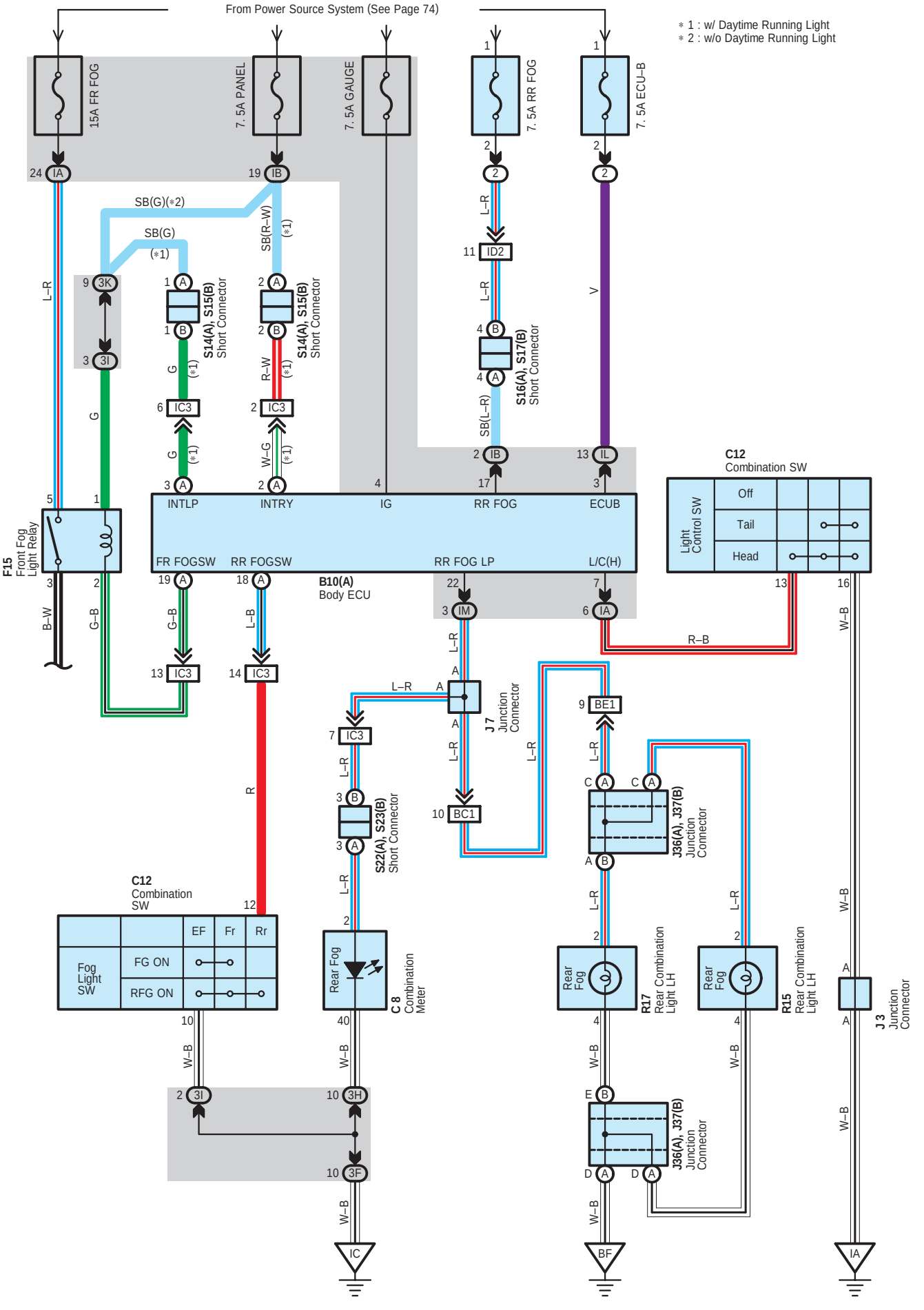
Radiator Fan and Condenser Fan (LHD)



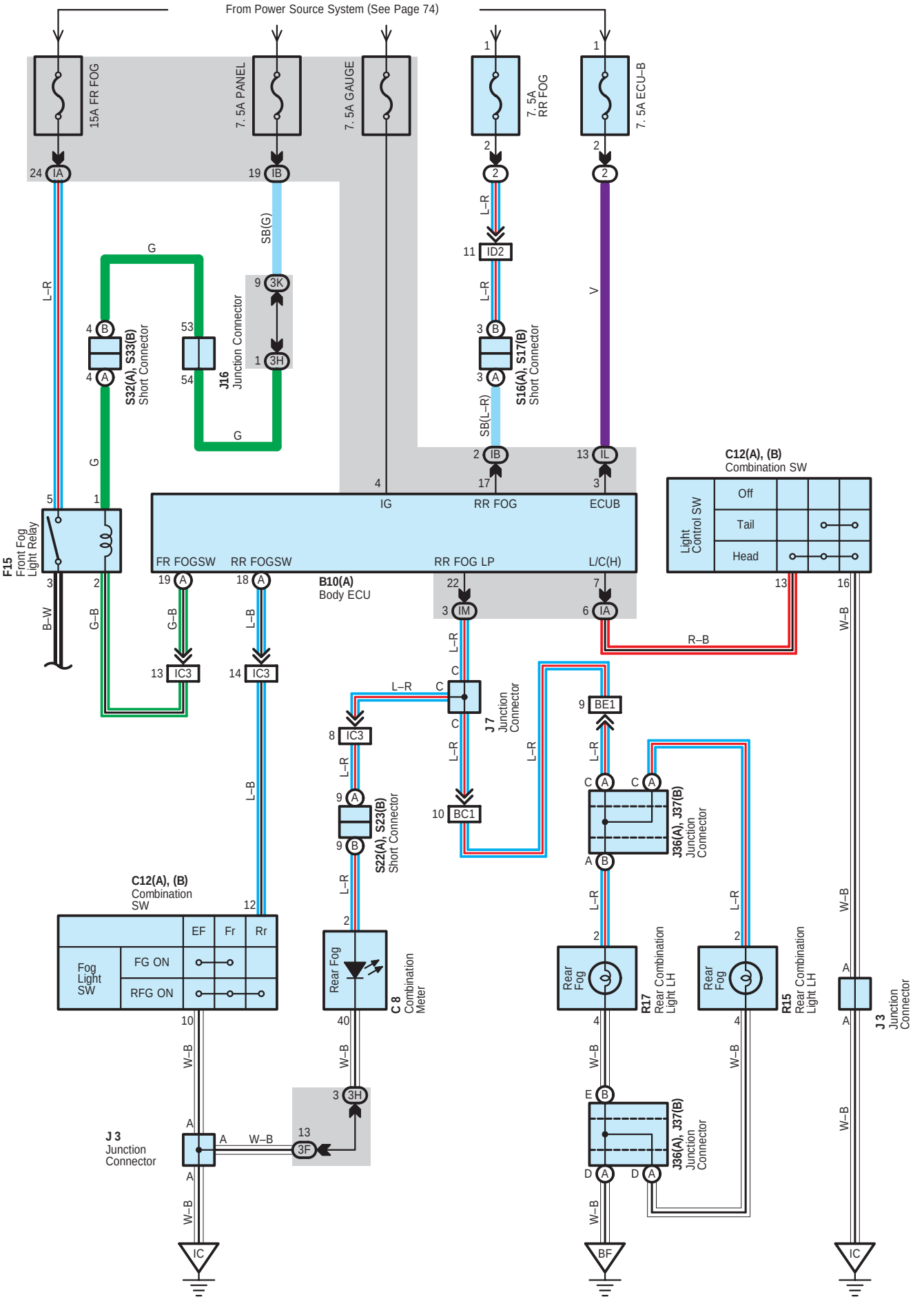
Radiator Fan and Condenser Fan (RHD)



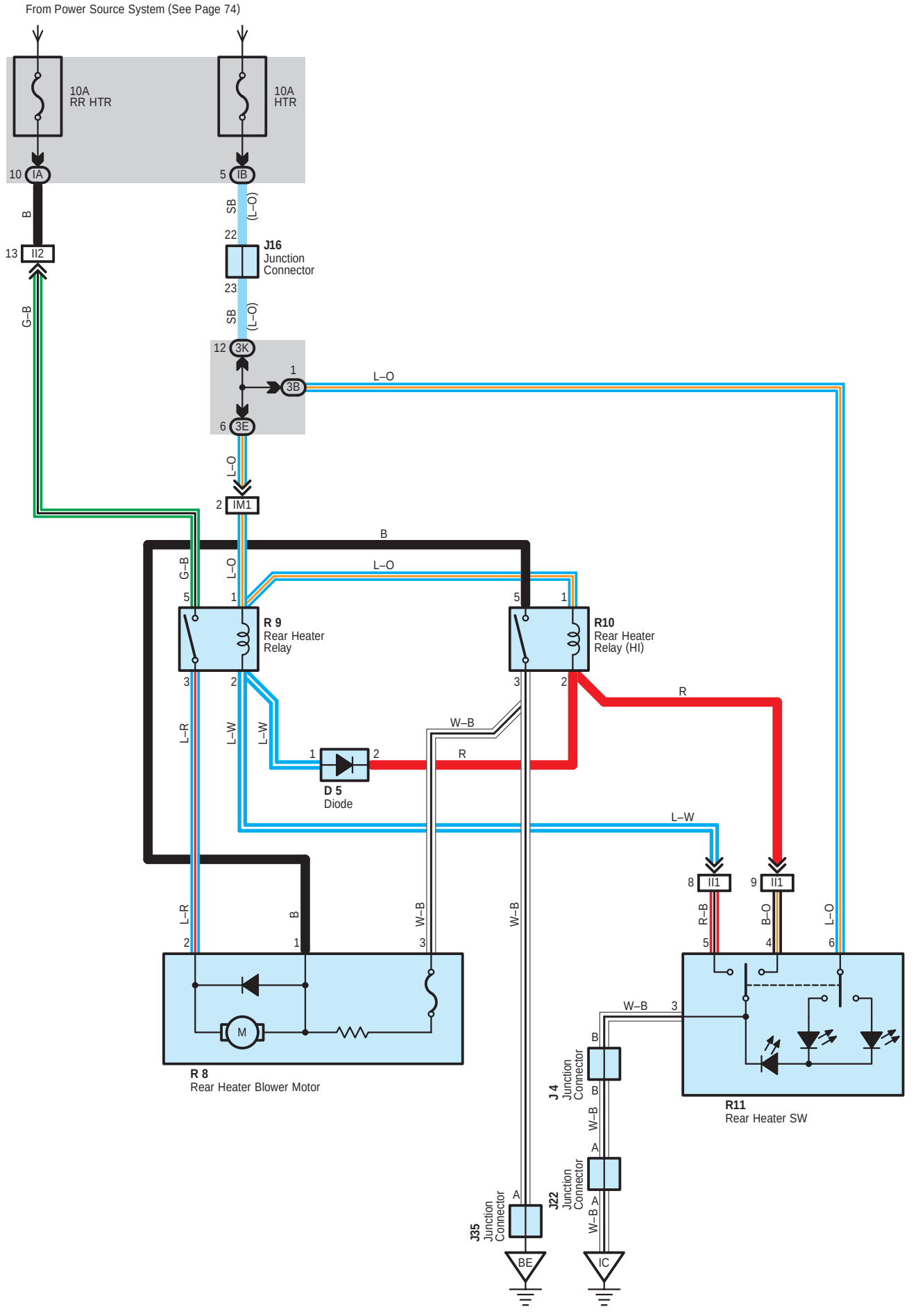
Rear Fog Light (LHD)



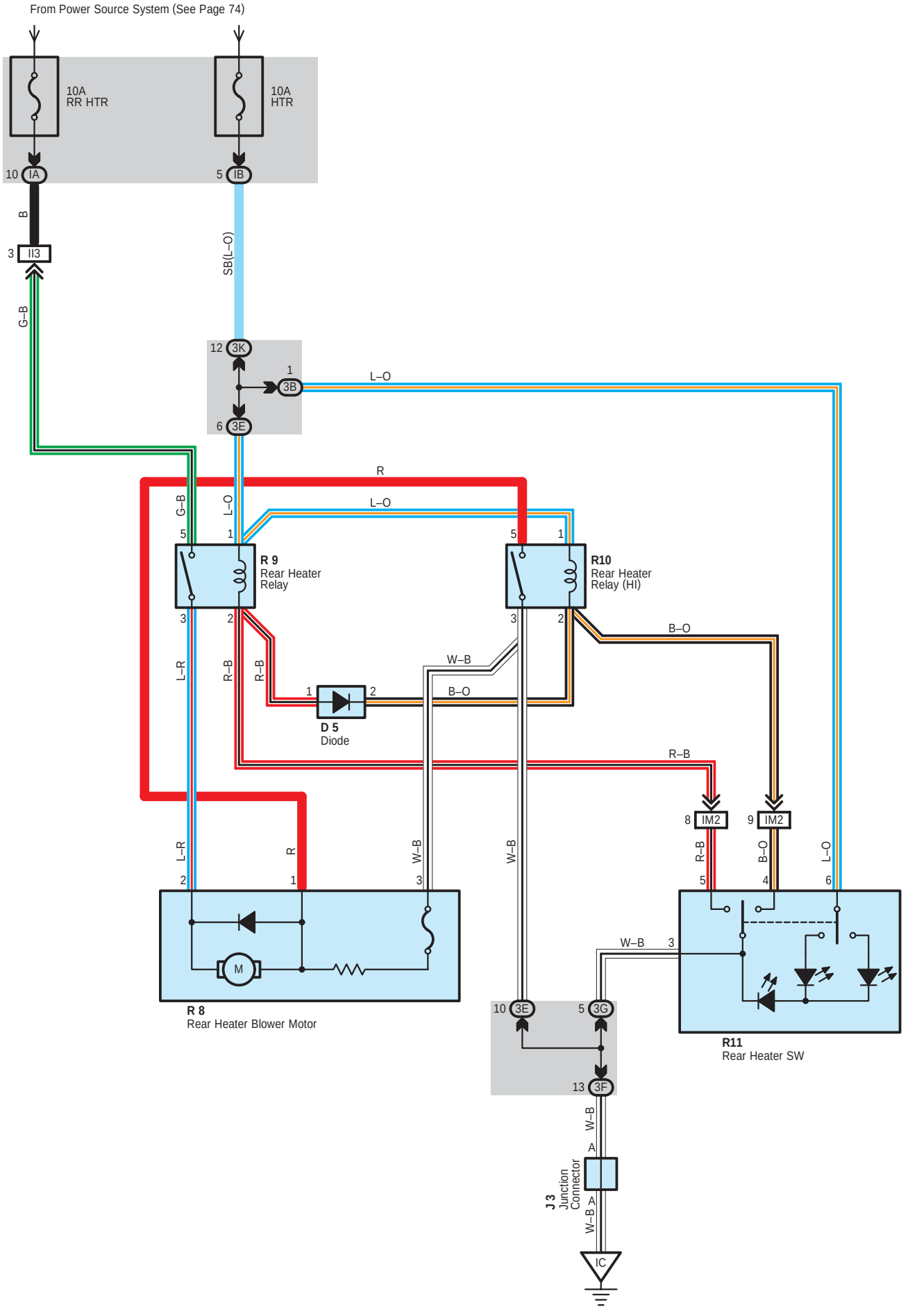
Rear Fog Light (RHD)



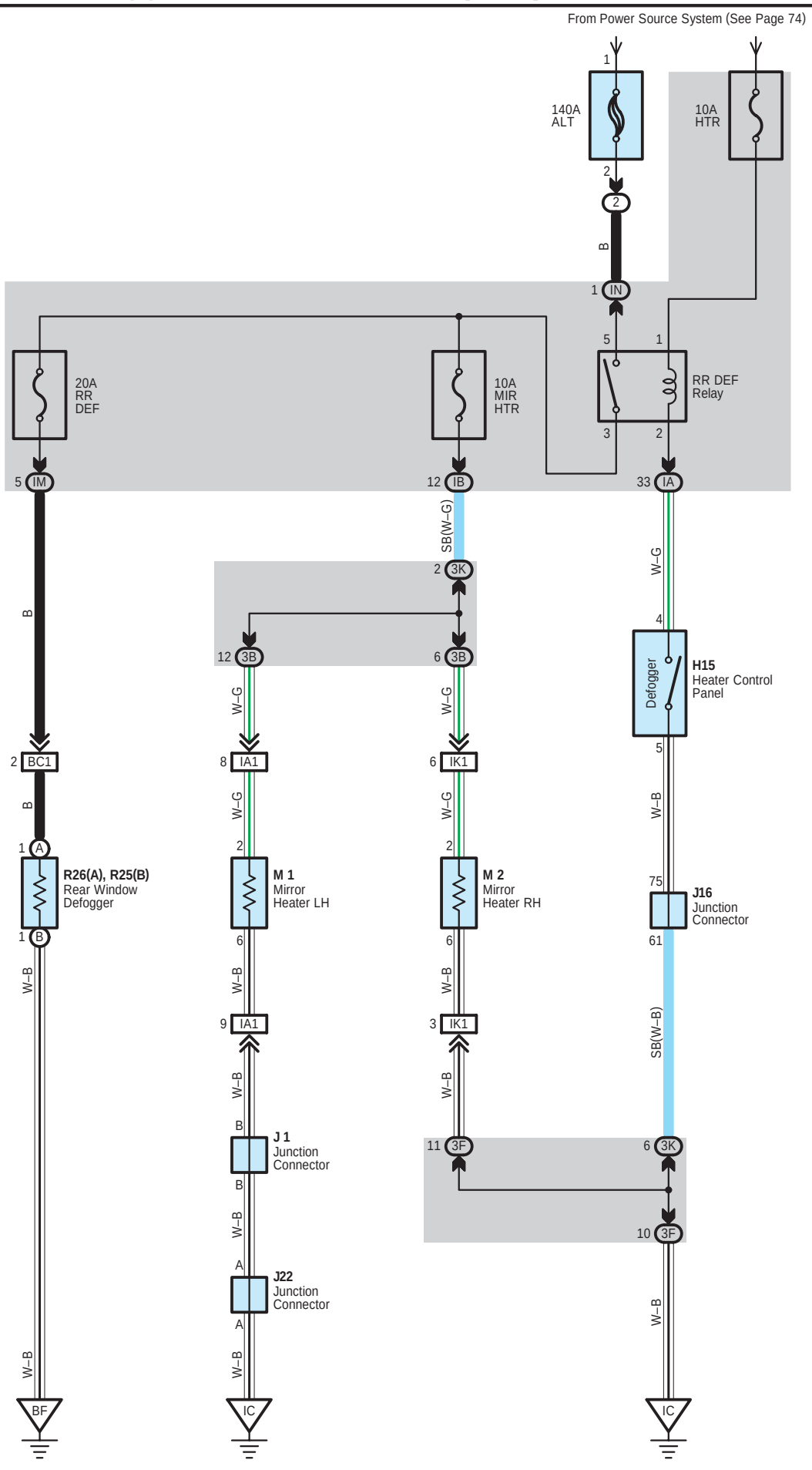
Rear Heater (LHD)



Rear Heater (RHD)

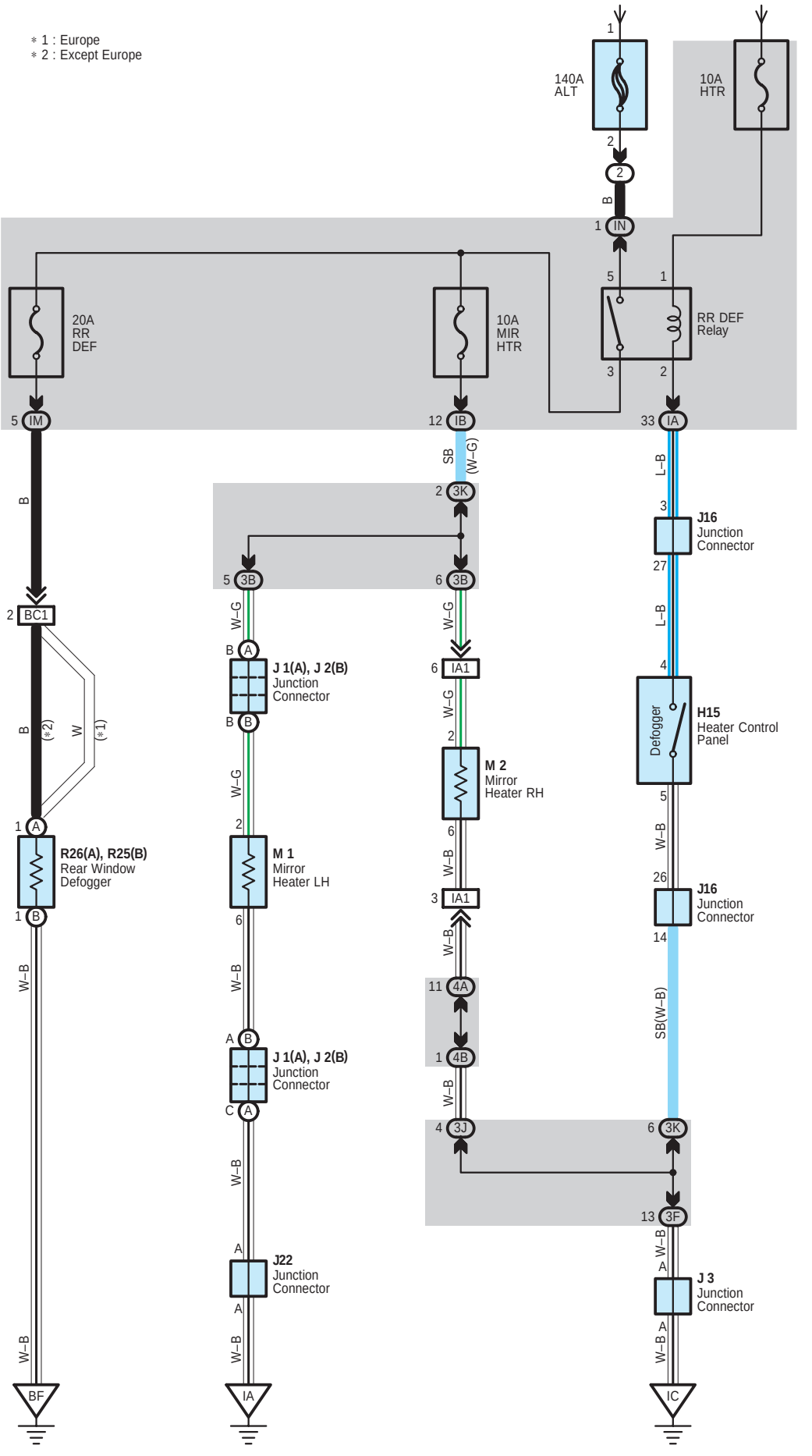


Rear Window Defogger and Mirror Heater (LHD)

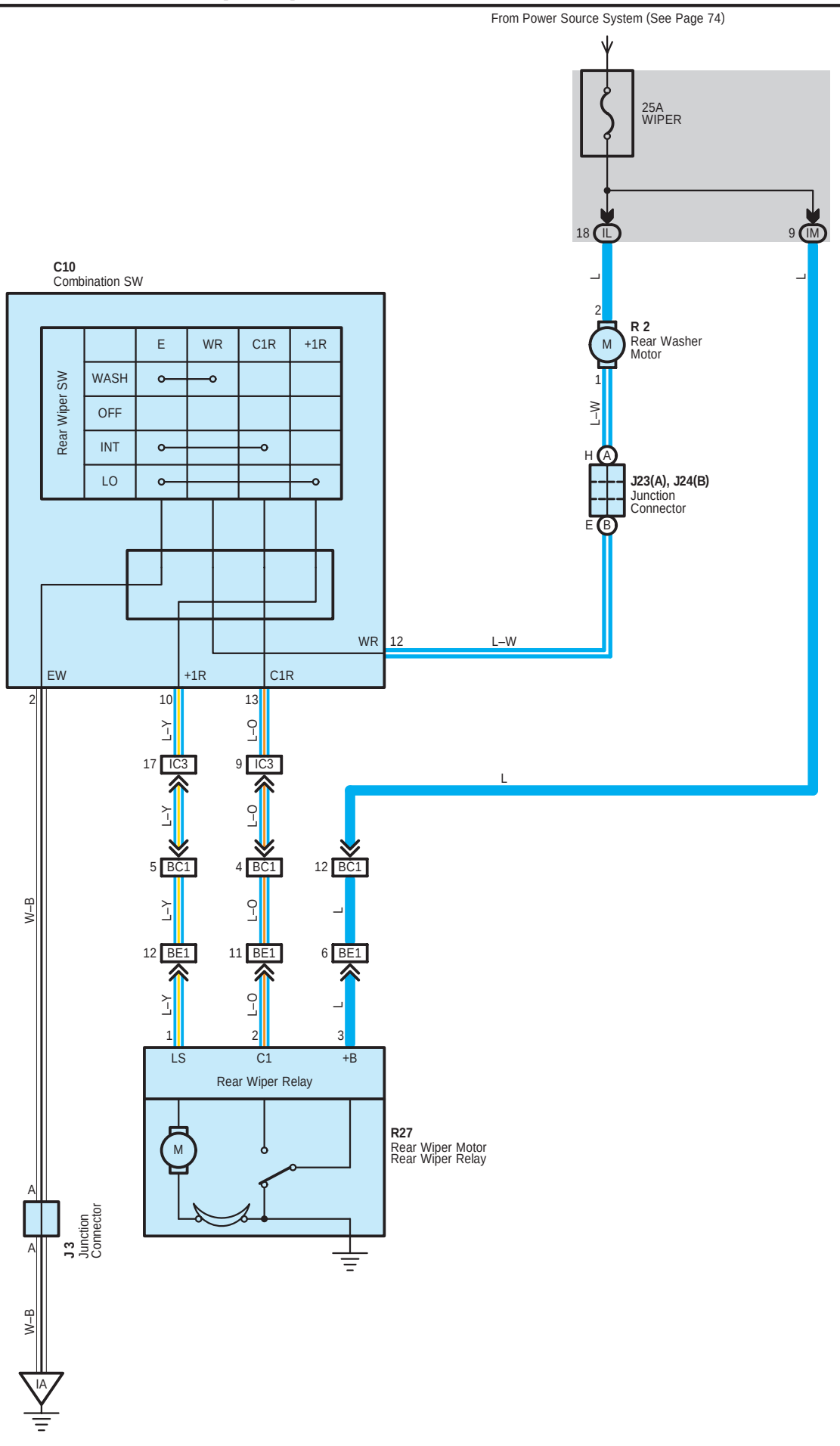


Rear Window Defogger and Mirror Heater (RHD)

From Power Source System (See Page 74)

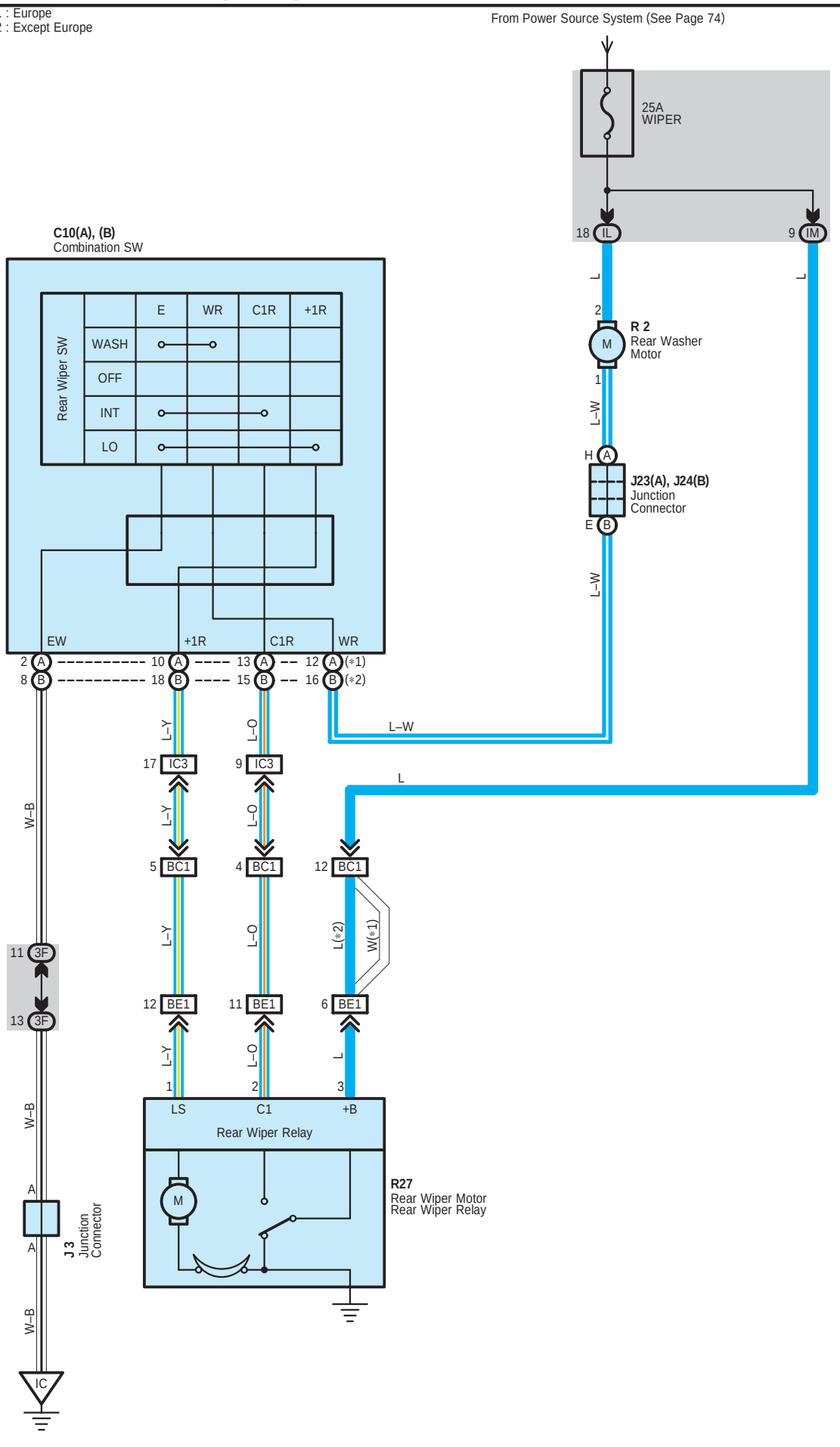


Rear Wiper and Washer (LHD)



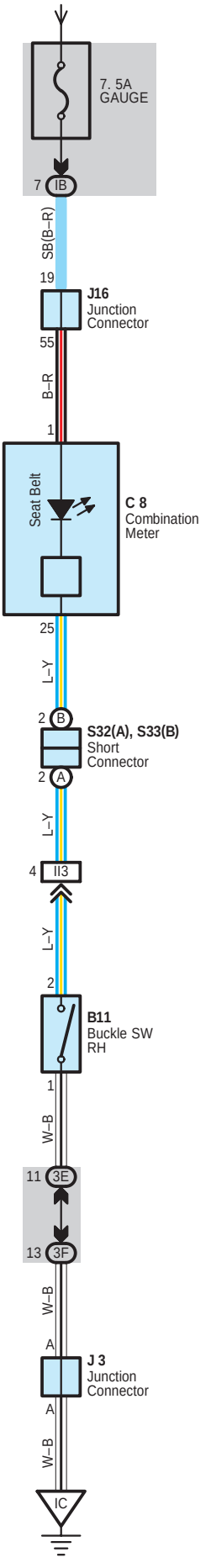
Rear Wiper and Washer (RHD)

∗ 1 : Europe
∗ 2 : Except Europe

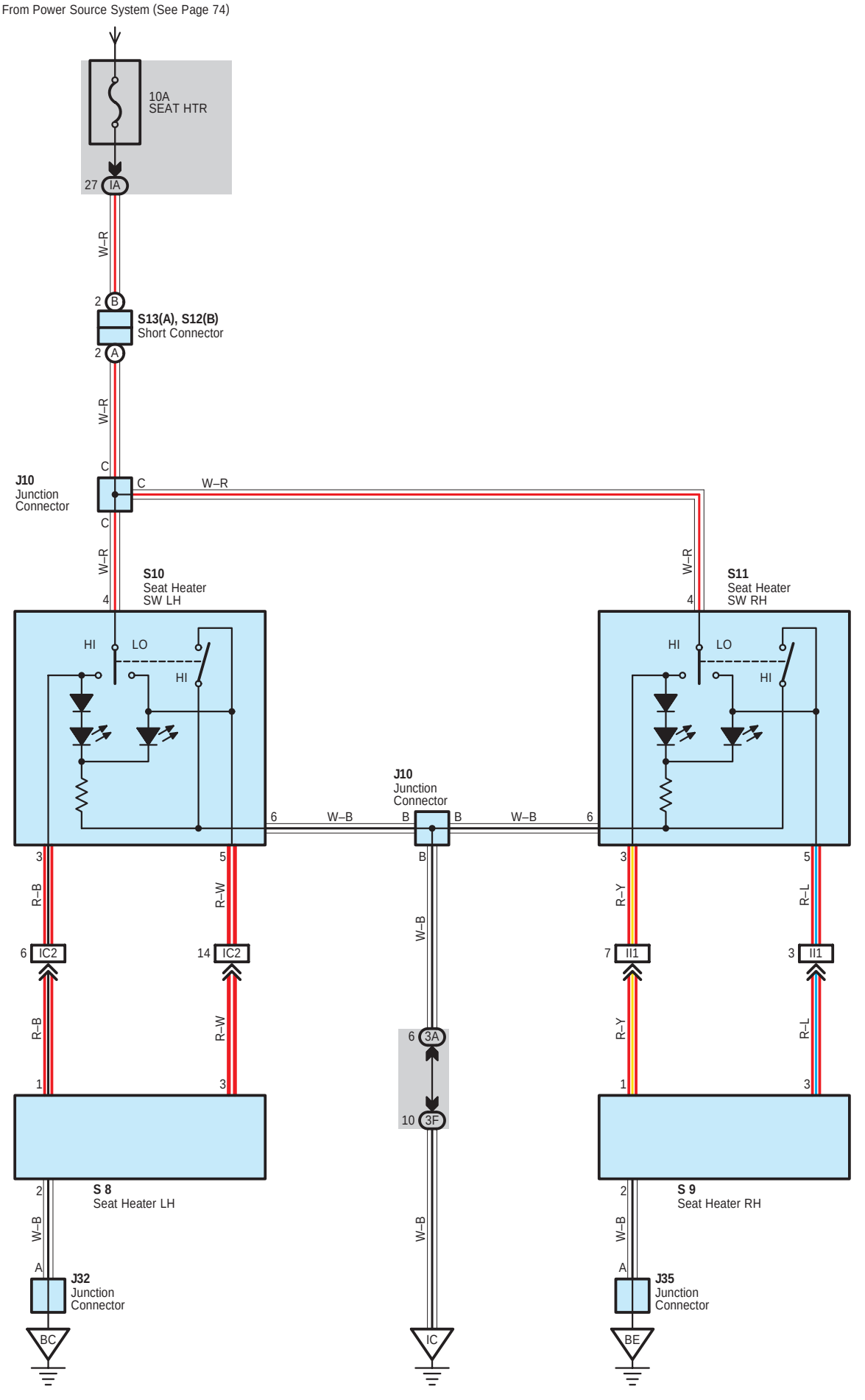


Seat Belt Warning (RHD)

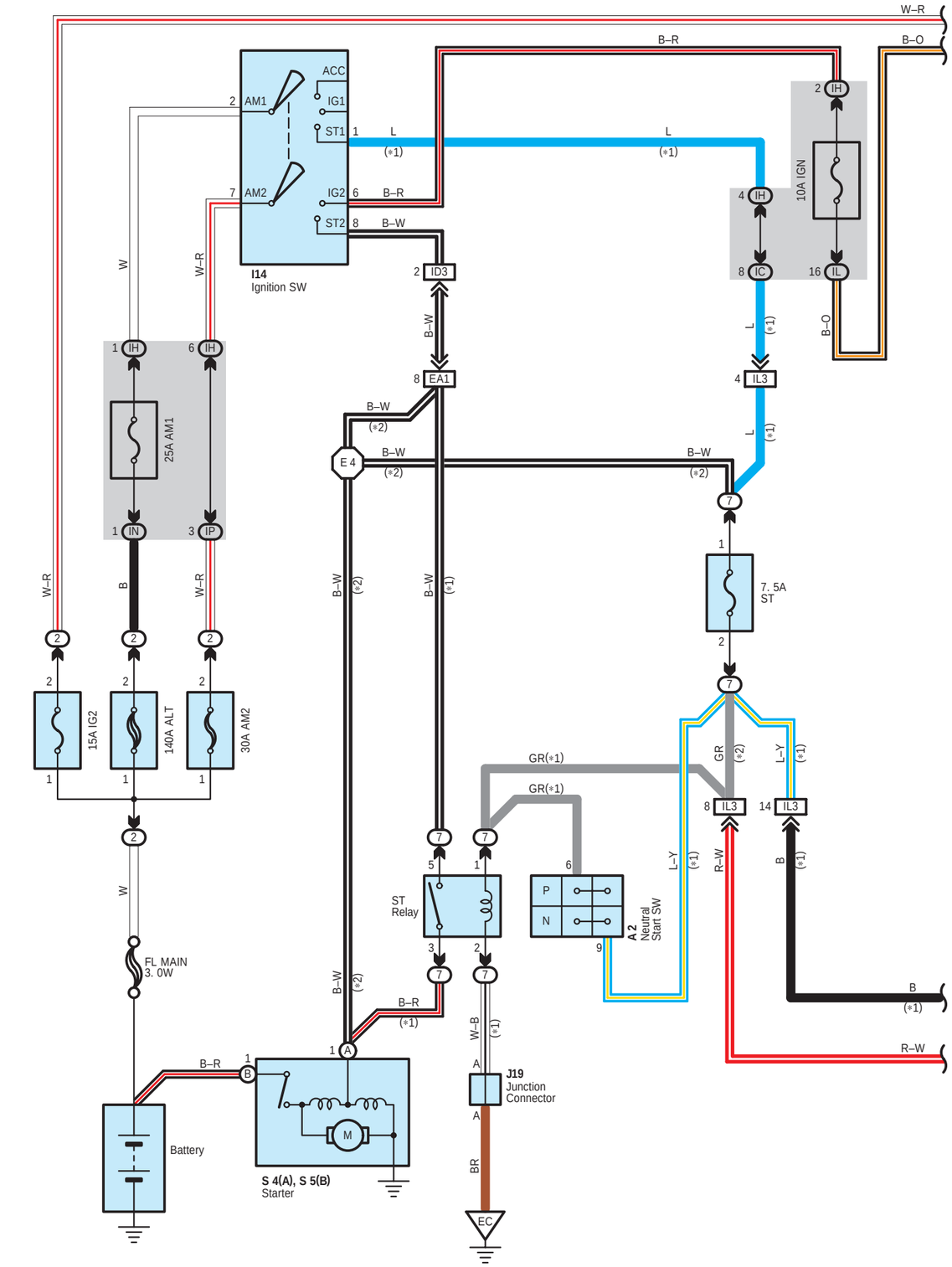
From Power Source System (See Page 74)

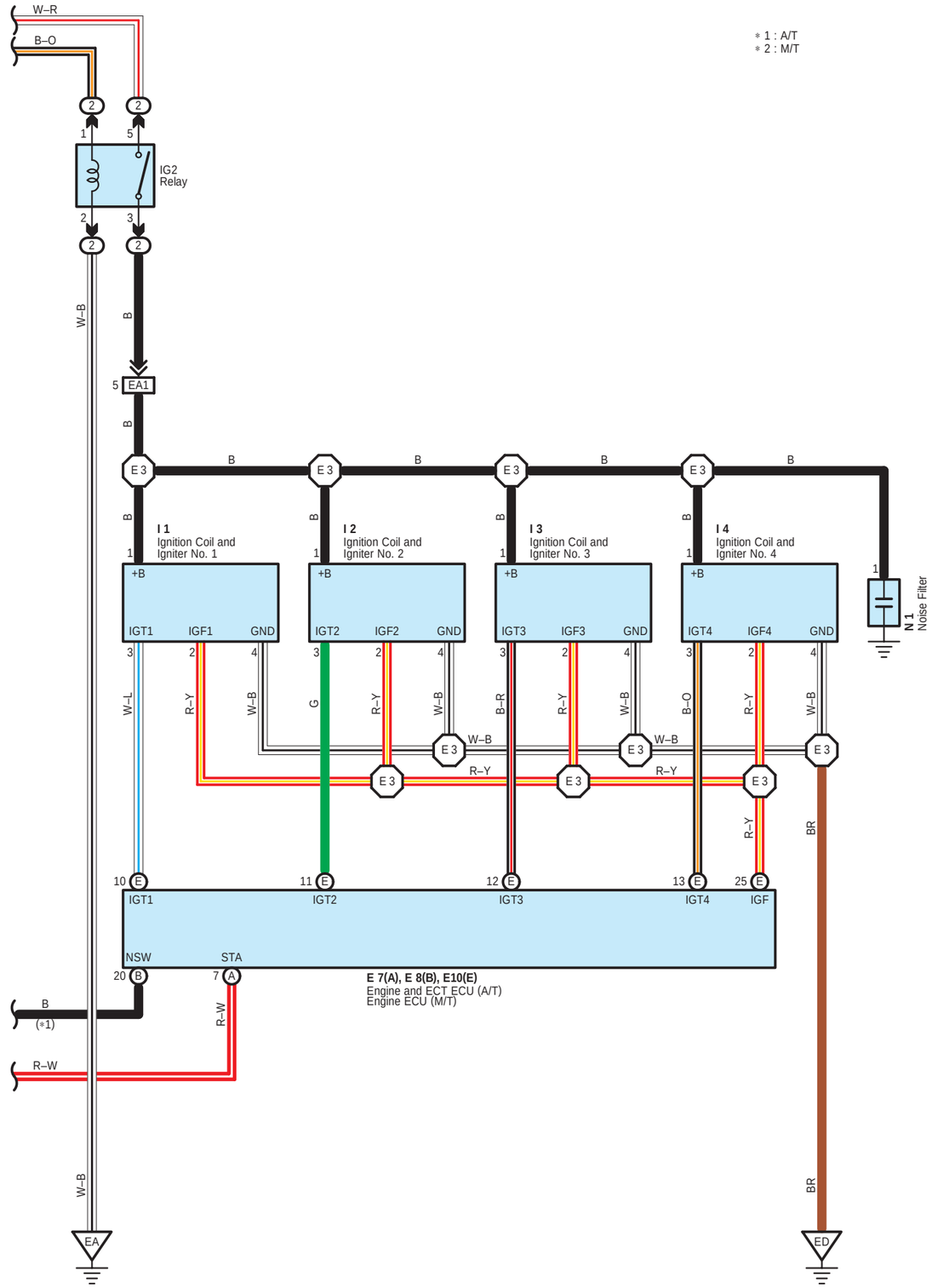


Seat Heater (LHD)

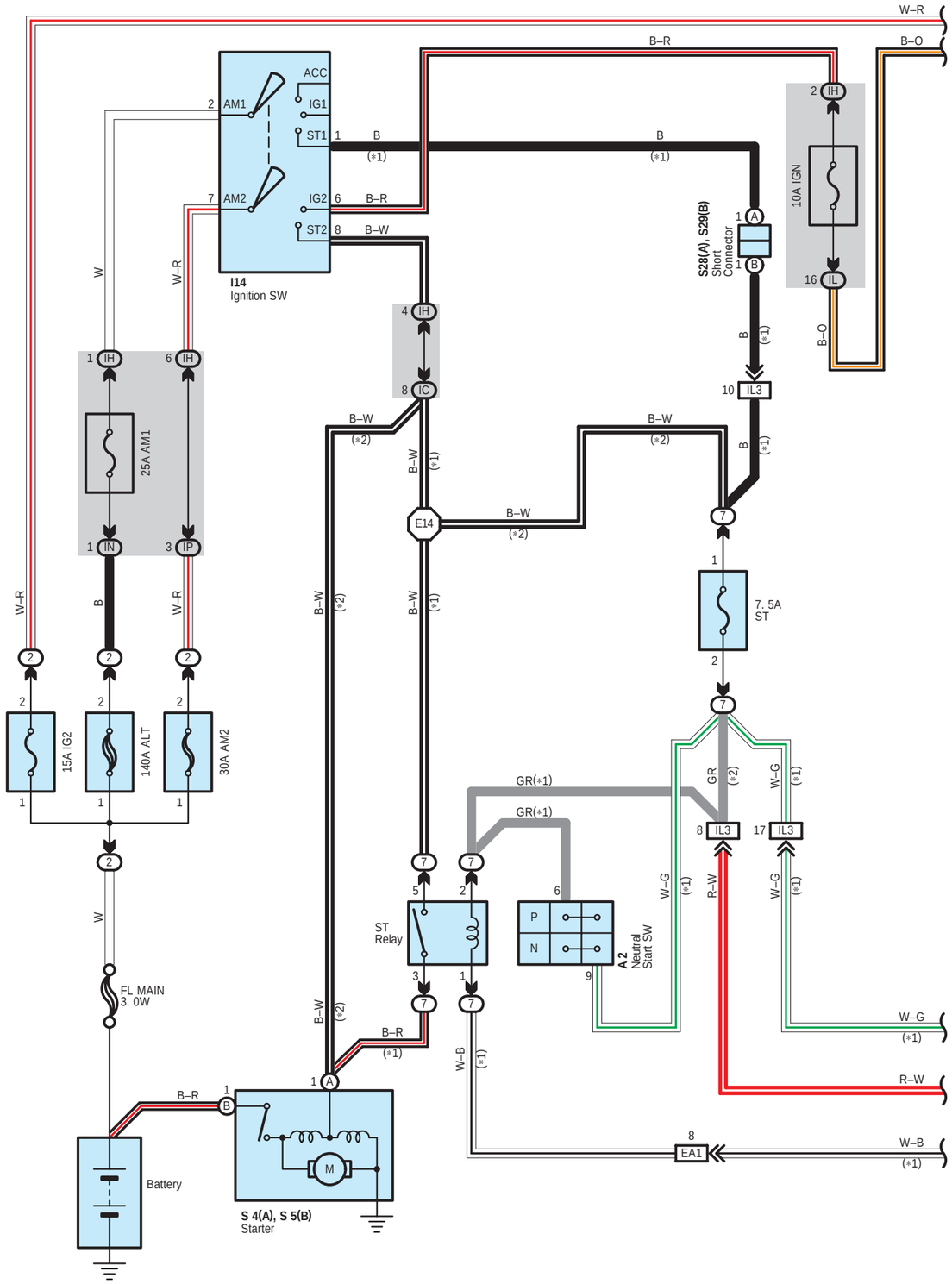


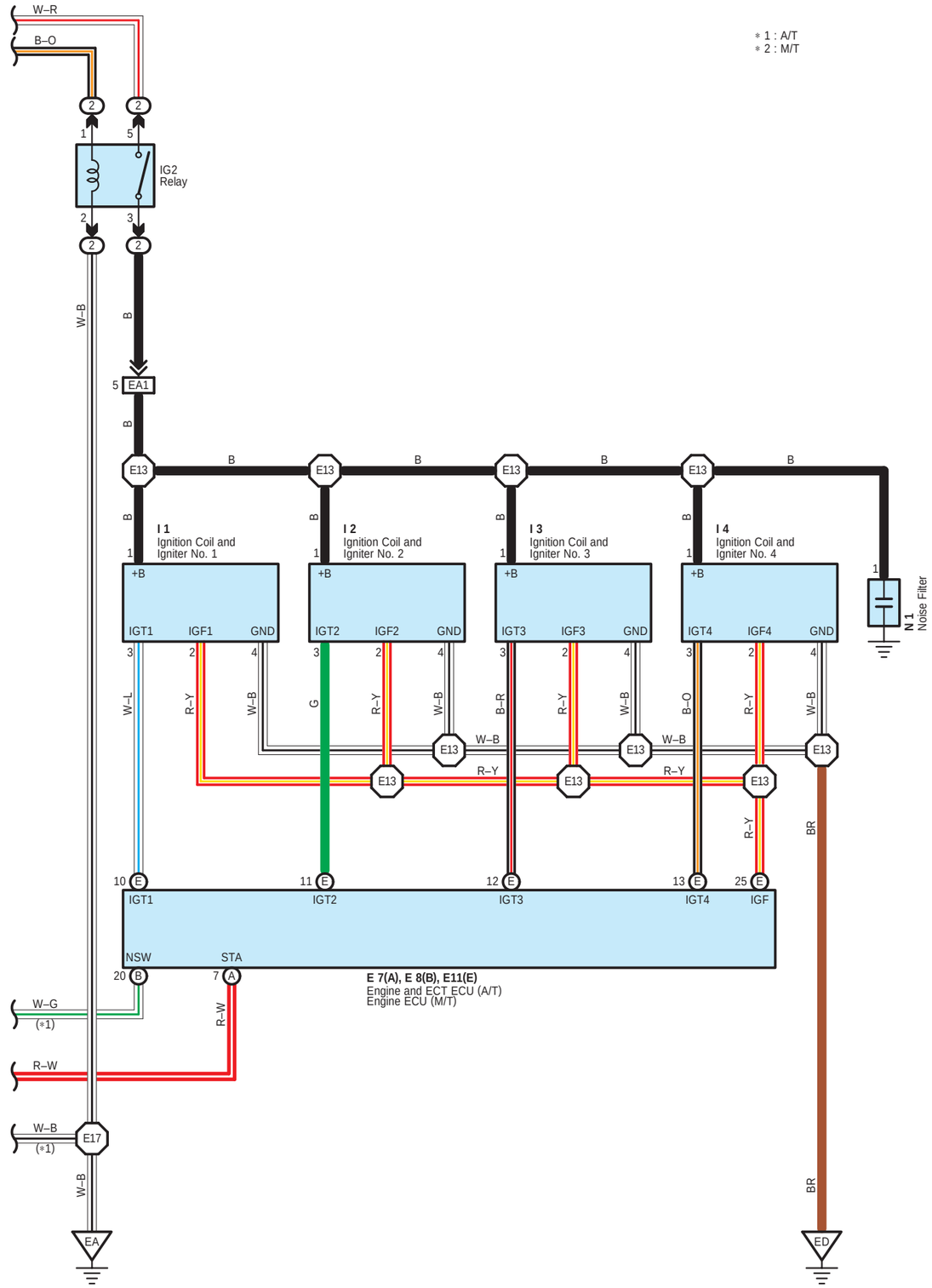
Starting and Ignition (LHD 1AZ–FE)





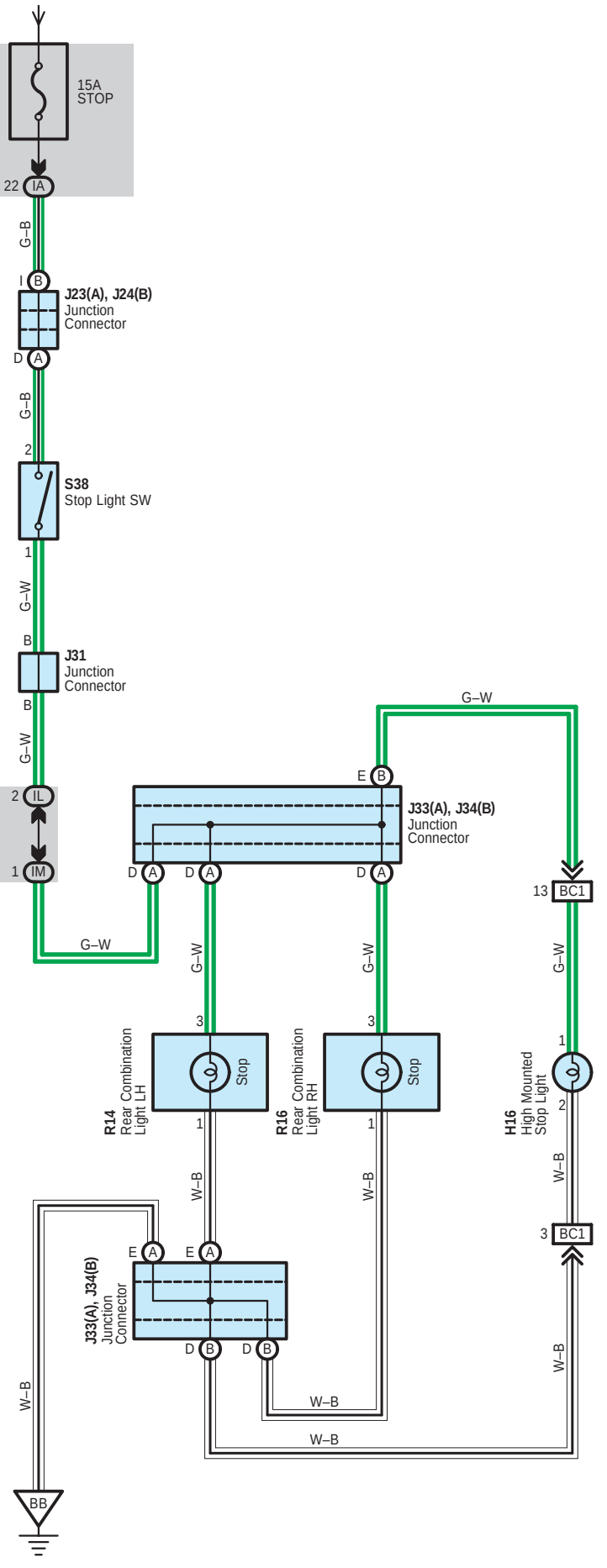
Starting and Ignition (RHD 1AZ–FE)





Stop Light (LHD)

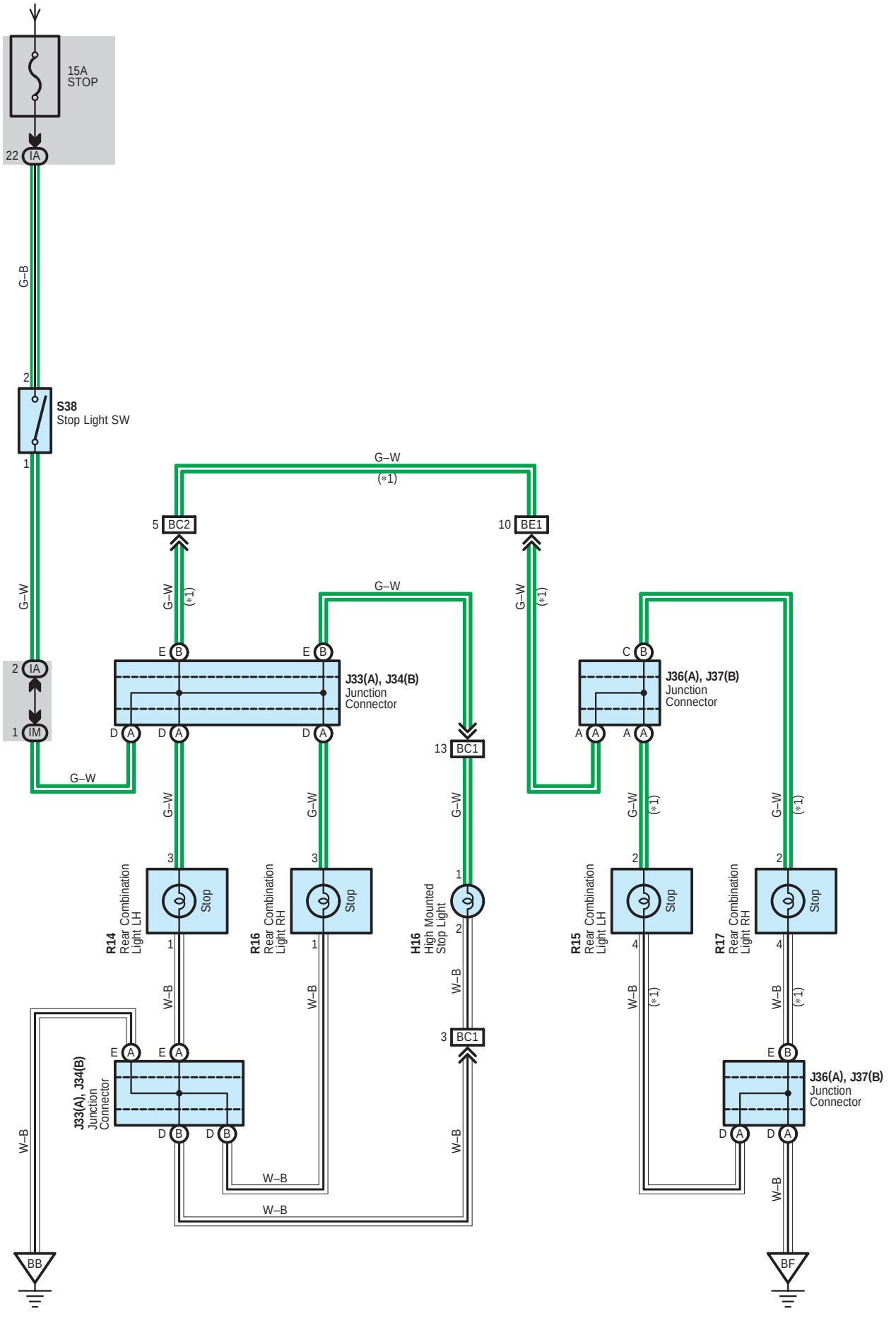
From Power Source System (See Page 74)



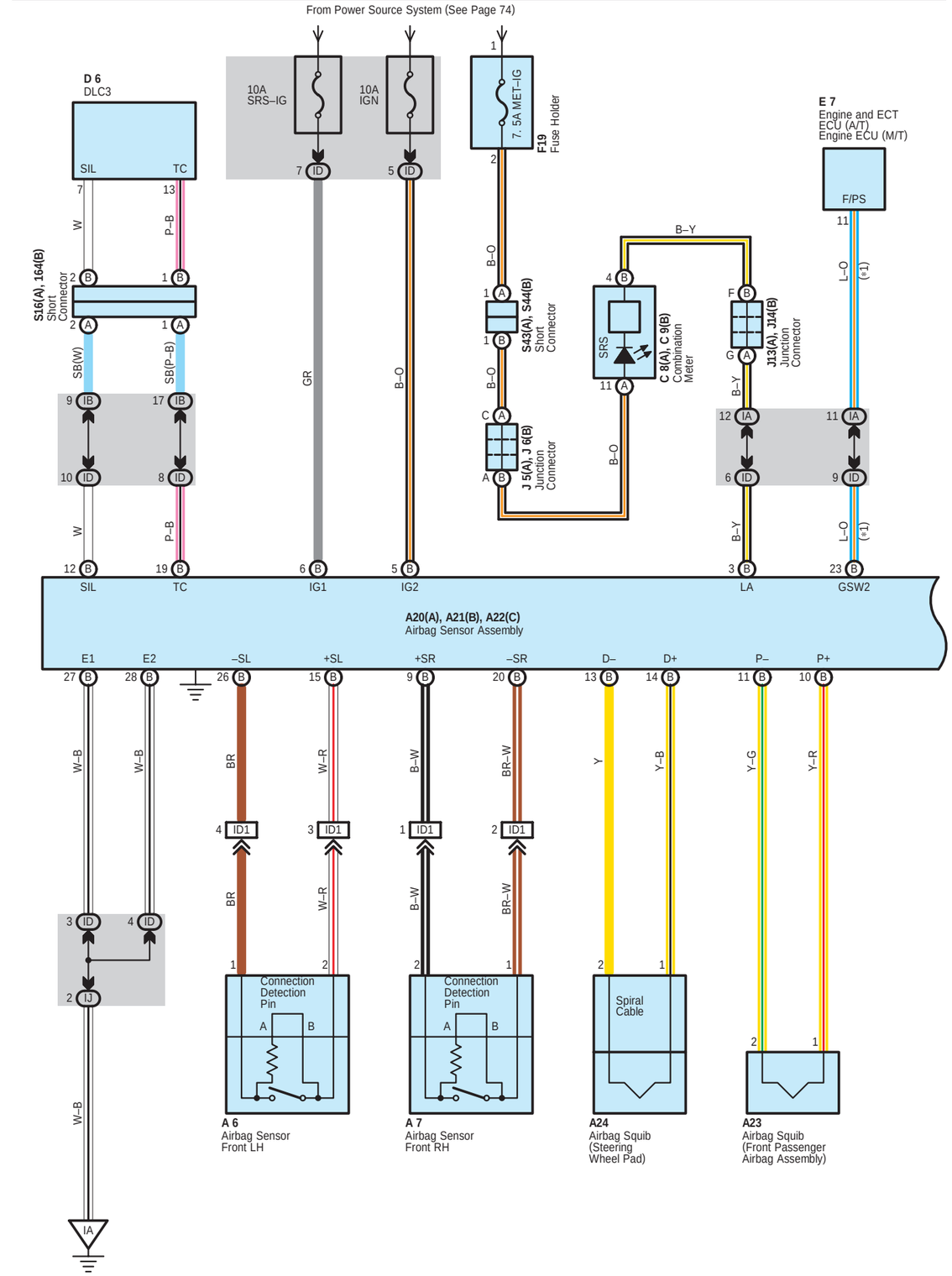
Stop Light (RHD)

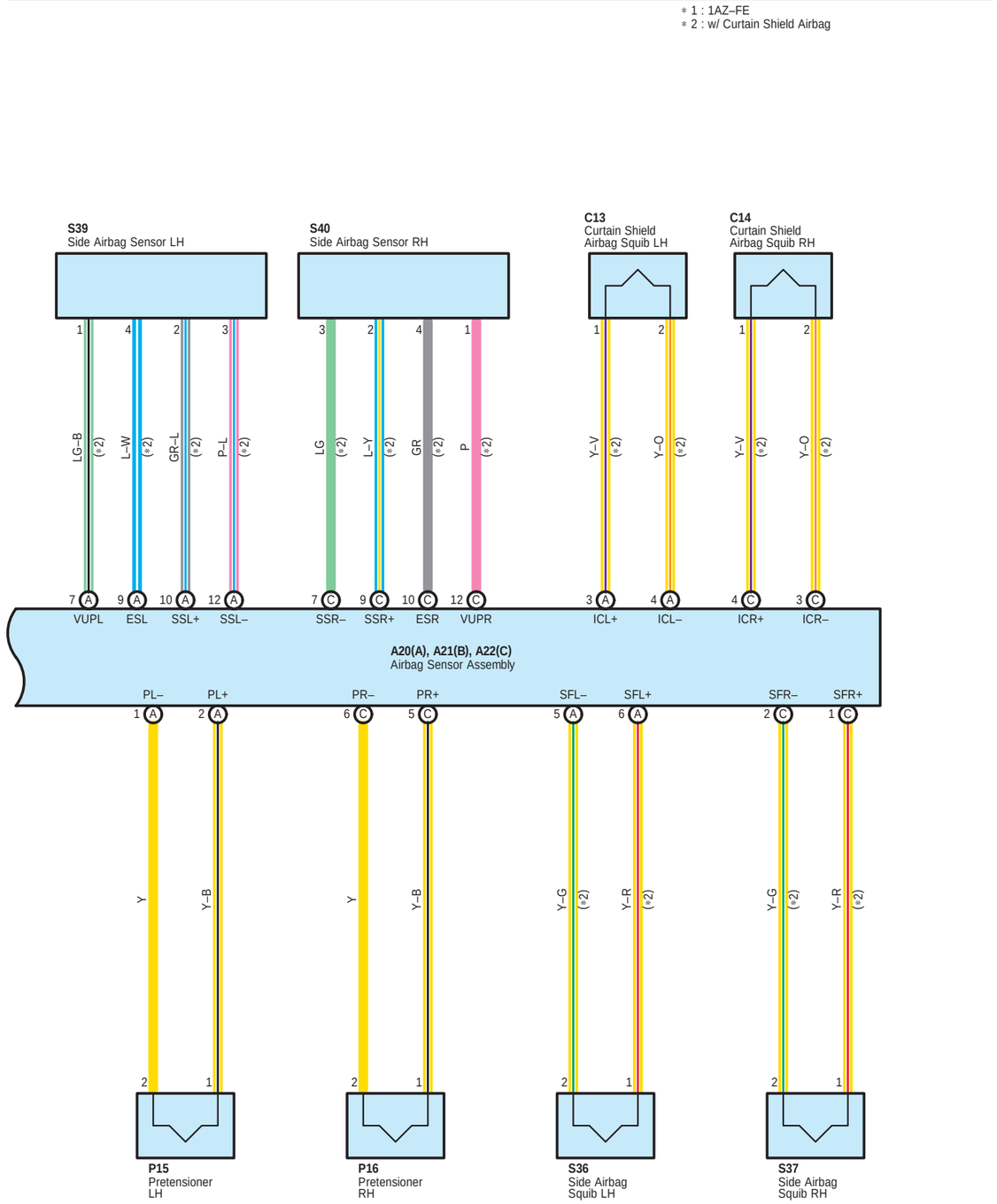
From Power Source System (See Page 74)

∗ 1 : General

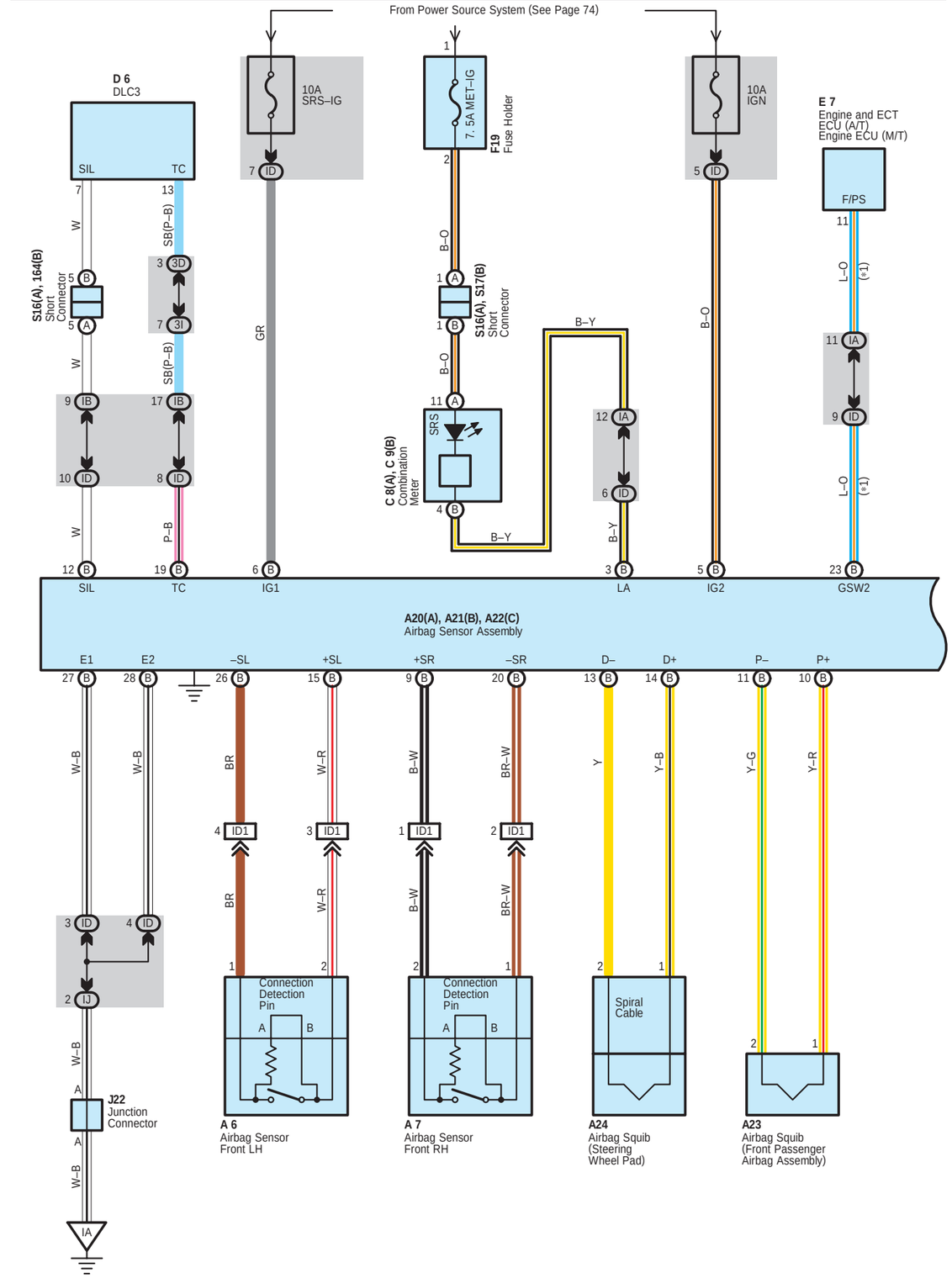


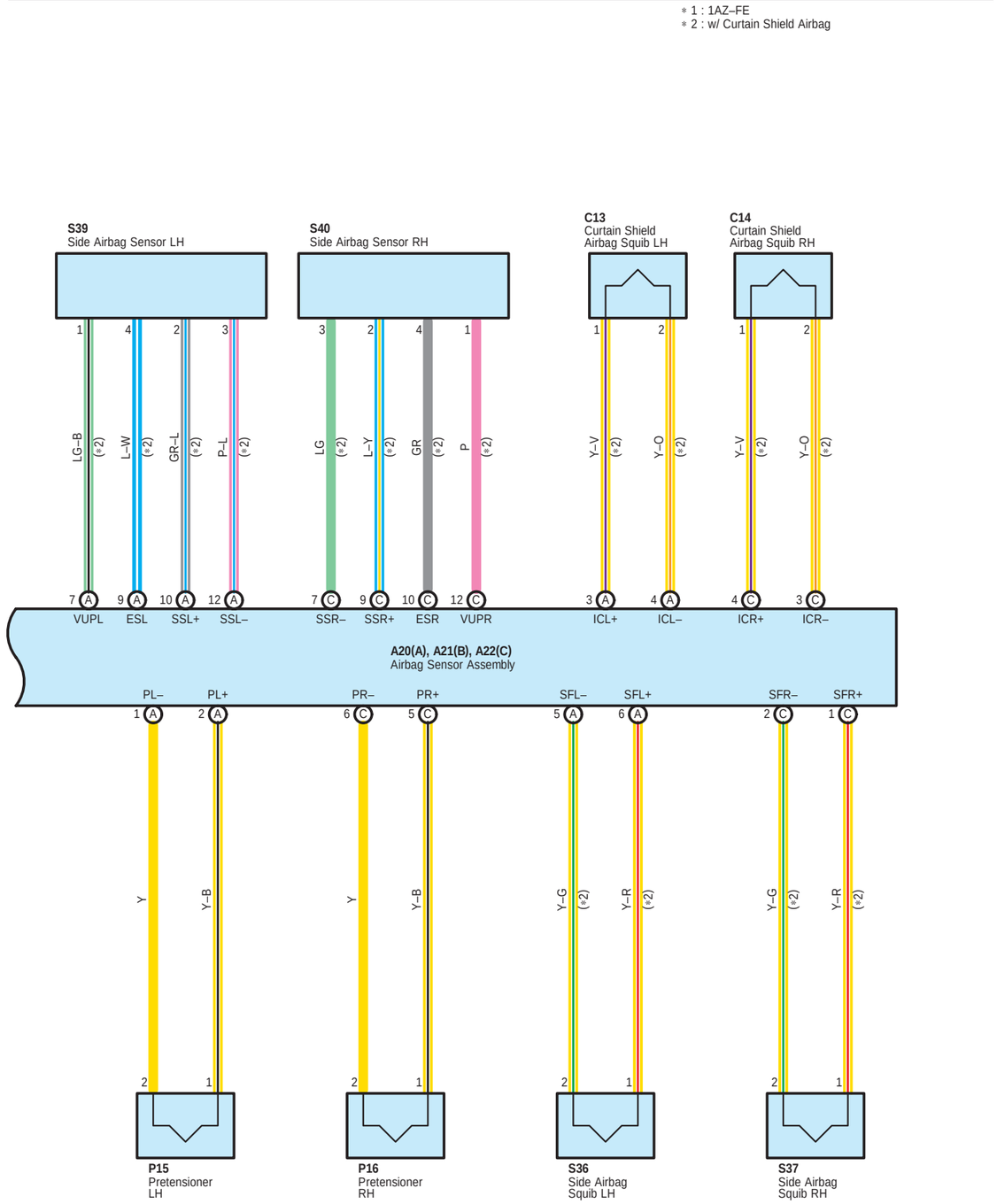
SRS (LHD)

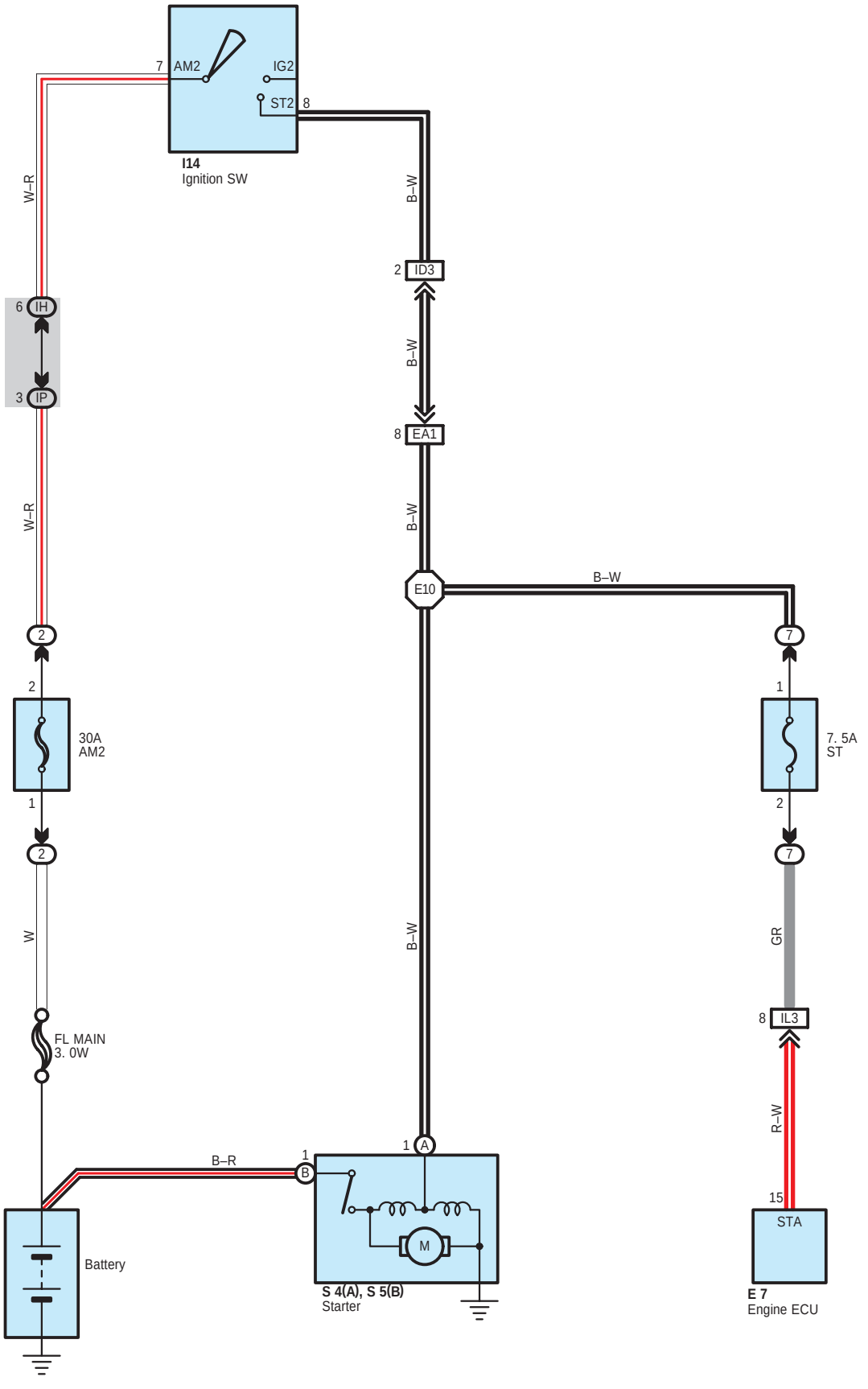

From Power Source System (See Page 74)
D 6
DLC3
SIL
TC
10A
SRS–IG
10A
IGN
F19
Fuse Holder
7. 5A MET–IG
E 7
Engine and ECT
ECU (A/T)
Engine ECU (M/T)
F/PS
S16(A), 164(B)
Short
Connector
S43(A), S44(B)
Short
Connector
J 5(A), J 6(B)
Junction
Connector
C 8(A), C 9(B)
Combination
Meter
SRS
J13(A), J14(B)
Junction
Connector
W
P–B
SB(W)
SB(P–B)
GR
B–O
B–Y
L–O
(*1)
SIL
TC
IG1
IG2
LA
GSW2
A20(A), A21(B), A22(C)
Airbag Sensor Assembly
E1
E2
–SL
+SL
+SR
–SR
D–
D+
P–
P+
W–B
BR
W–R
B–W
BR–W
Y
Y–B
Y–G
Y–R
ID1
Connection
Detection
Pin
Spiral
Cable
IJ
IA
A 6
Airbag Sensor
Front LH
A 7
Airbag Sensor
Front RH
A24
Airbag Squib
(Steering
Wheel Pad)
A23
Airbag Squib
(Front Passenger
Airbag Assembly)

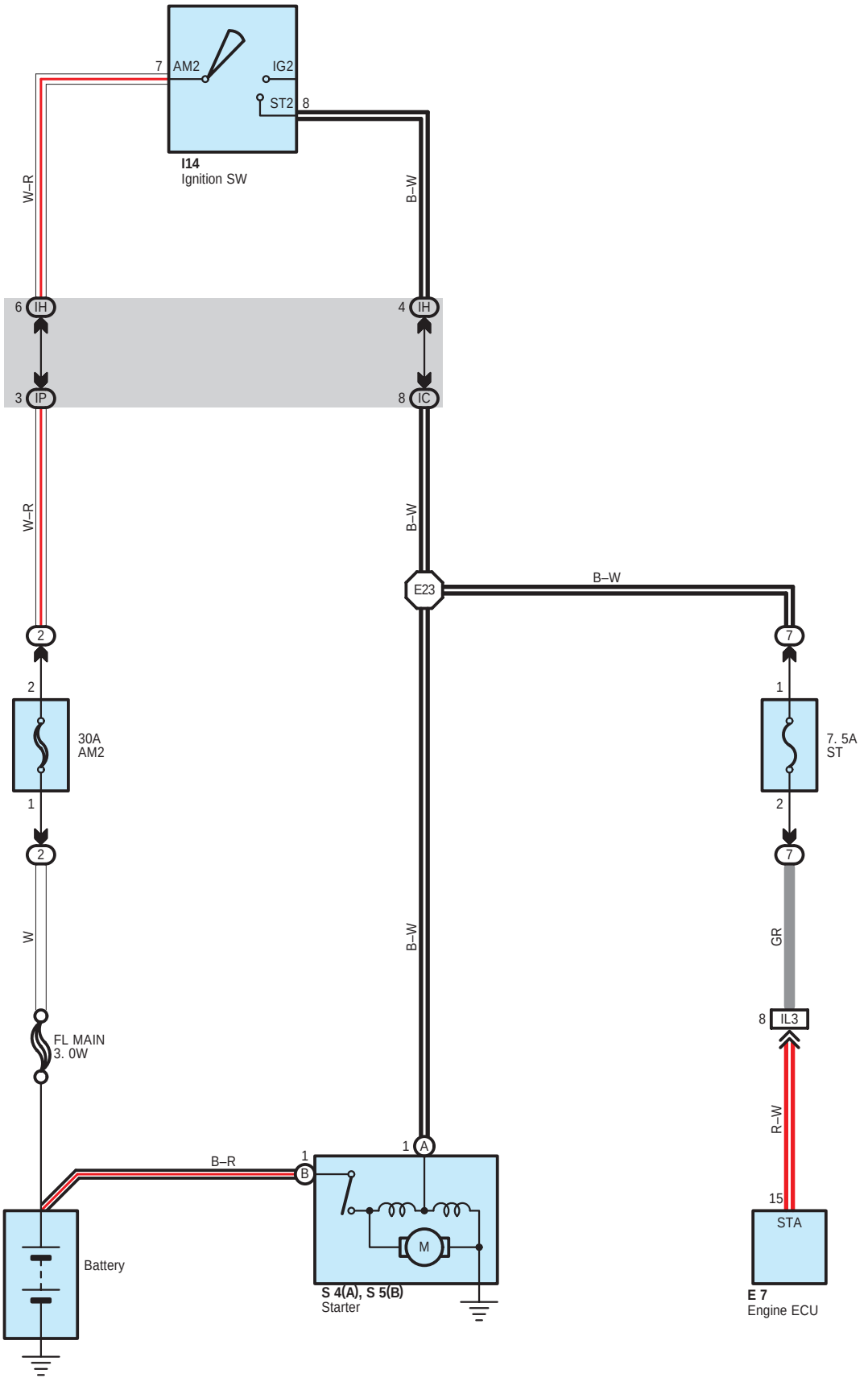

* 1 : 1AZ–FE
* 2 : w/ Curtain Shield Airbag
S39
Side Airbag Sensor LH
S40
Side Airbag Sensor RH
C13
Curtain Shield
Airbag Squib LH
C14
Curtain Shield
Airbag Squib RH
LG–B
L–W
GR–L
P–L
LG
L–Y
GR
P
Y–V
Y–O
(*2)
VUPL
ESL
SSL+
SSL–
SSR–
SSR+
ESR
VUPR
ICL+
ICL–
ICR+
ICR–
A20(A), A21(B), A22(C)
Airbag Sensor Assembly
PL–
PL+
PR–
PR+
SFL–
SFL+
SFR–
SFR+
Y
Y–B
Y–G
Y–R
P15
Pretensioner
LH
P16
Pretensioner
RH
S36
Side Airbag
Squib LH
S37
Side Airbag
Squib RH

SRS (RHD)

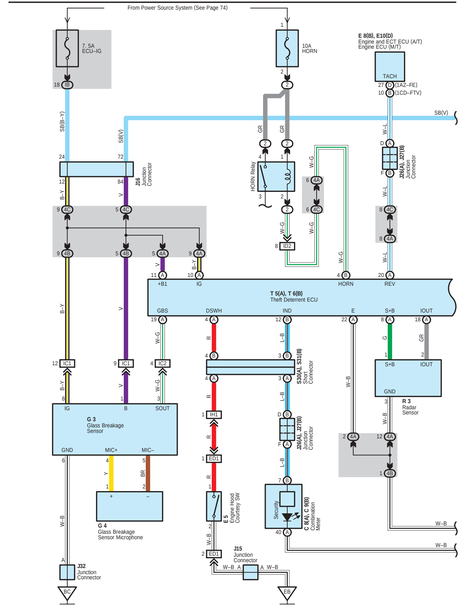

From Power Source System (See Page 74)
D 6
DLC3
SIL
TC
10A
SRS–IG
7. 5A MET–IG
F19
Fuse Holder
10A
IGN
E 7
Engine and ECT
ECU (A/T)
Engine ECU (M/T)
F/PS
S16(A), 164(B)
Short
Connector
S16(A), S17(B)
Short
Connector
C 8(A), C 9(B)
Combination
Meter
SRS
W
SB(P–B)
GR
B–O
B–Y
L–O (*1)
P–B
W–B
BR
W–R
B–W
BR–W
Y
Y–B
Y–G
Y–R
SIL
TC
IG1
LA
IG2
GSW2
A20(A), A21(B), A22(C)
Airbag Sensor Assembly
E1
E2
–SL
+SL
+SR
–SR
D–
D+
P–
P+
J22
Junction
Connector
IJ
IA
Connection
Detection
Pin
Spiral
Cable
A 6
Airbag Sensor
Front LH
A 7
Airbag Sensor
Front RH
A24
Airbag Squib
(Steering
Wheel Pad)
A23
Airbag Squib
(Front Passenger
Airbag Assembly)

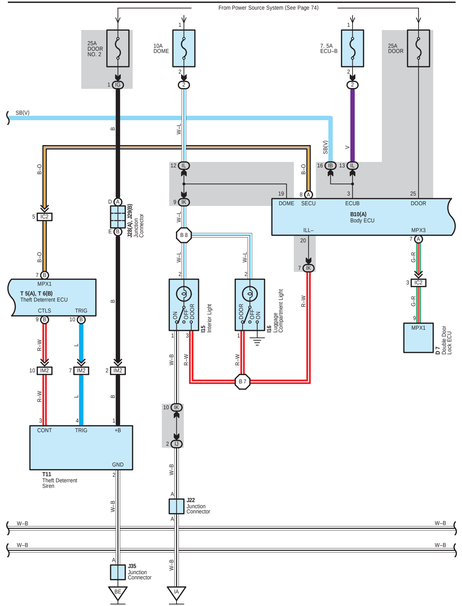

* 1 : 1AZ–FE
* 2 : w/ Curtain Shield Airbag
S39
Side Airbag Sensor LH
S40
Side Airbag Sensor RH
C13
Curtain Shield
Airbag Squib LH
C14
Curtain Shield
Airbag Squib RH
LG–B (*2)
L–W (*2)
GR–L (*2)
P–L (*2)
LG (*2)
L–Y (*2)
GR (*2)
P (*2)
Y–V (*2)
Y–O (*2)
VUPL
ESL
SSL+
SSL–
SSR–
SSR+
ESR
VUPR
ICL+
ICL–
ICR+
ICR–
A20(A), A21(B), A22(C)
Airbag Sensor Assembly
PL–
PL+
PR–
PR+
SFL–
SFL+
SFR–
SFR+
P15
Pretensioner
LH
P16
Pretensioner
RH
S36
Side Airbag
Squib LH
S37
Side Airbag
Squib RH


7 AM2
IG2
ST2 8
I14
Ignition SW
W–R
B–W
2 ID3
6 IH
3 IP
B–W
8 EA1
W–R
B–W
E10
B–W
7
1
2
2
30A
AM2
1
2
7. 5A
ST
2
7
W
GR
FL MAIN
3. 0W
8 IL3
B–W
R–W
B–R
1
A
1
B
15
STA
M
Battery
S 4(A), S 5(B)
Starter
E 7
Engine ECU

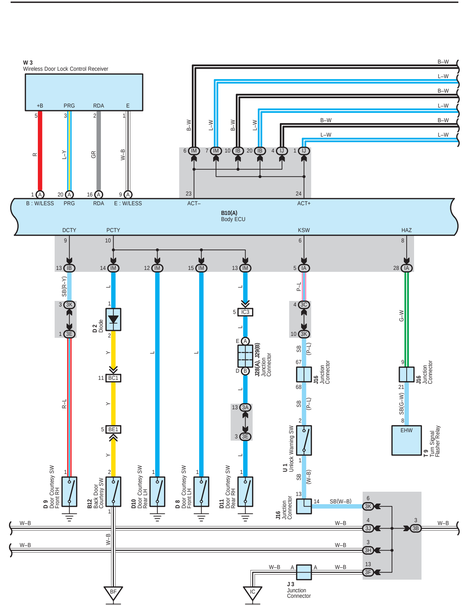

7 AM2
IG2
ST2 8
I14
Ignition SW
W–R
B–W
6 IH
4 IH
3 IP
8 IC
W–R
B–W
E23
B–W
2
2
30A
AM2
1
2
W
FL MAIN
3. 0W
7
1
7. 5A
ST
2
7
GR
8 IL3
R–W
15
STA
E 7
Engine ECU
B–W
1
B
1
A
M
S 4(A), S 5(B)
Starter
Battery

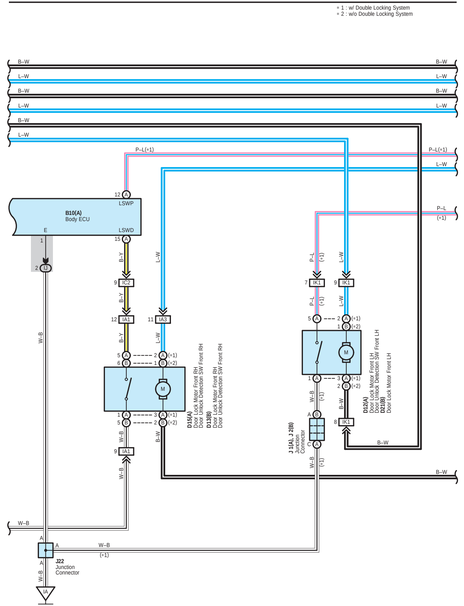
Theft Deterrent (RHD)



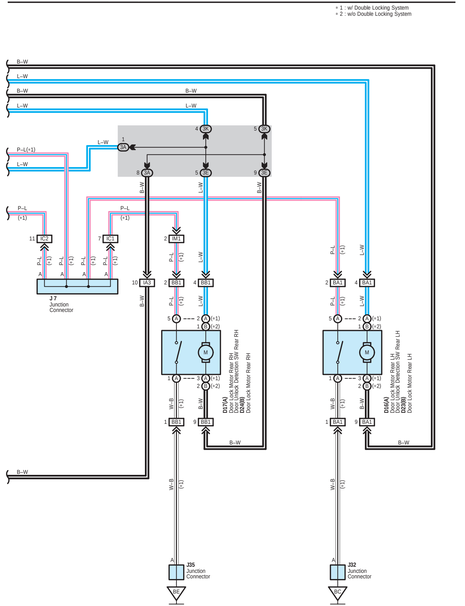


Theft Deterrent (RHD)



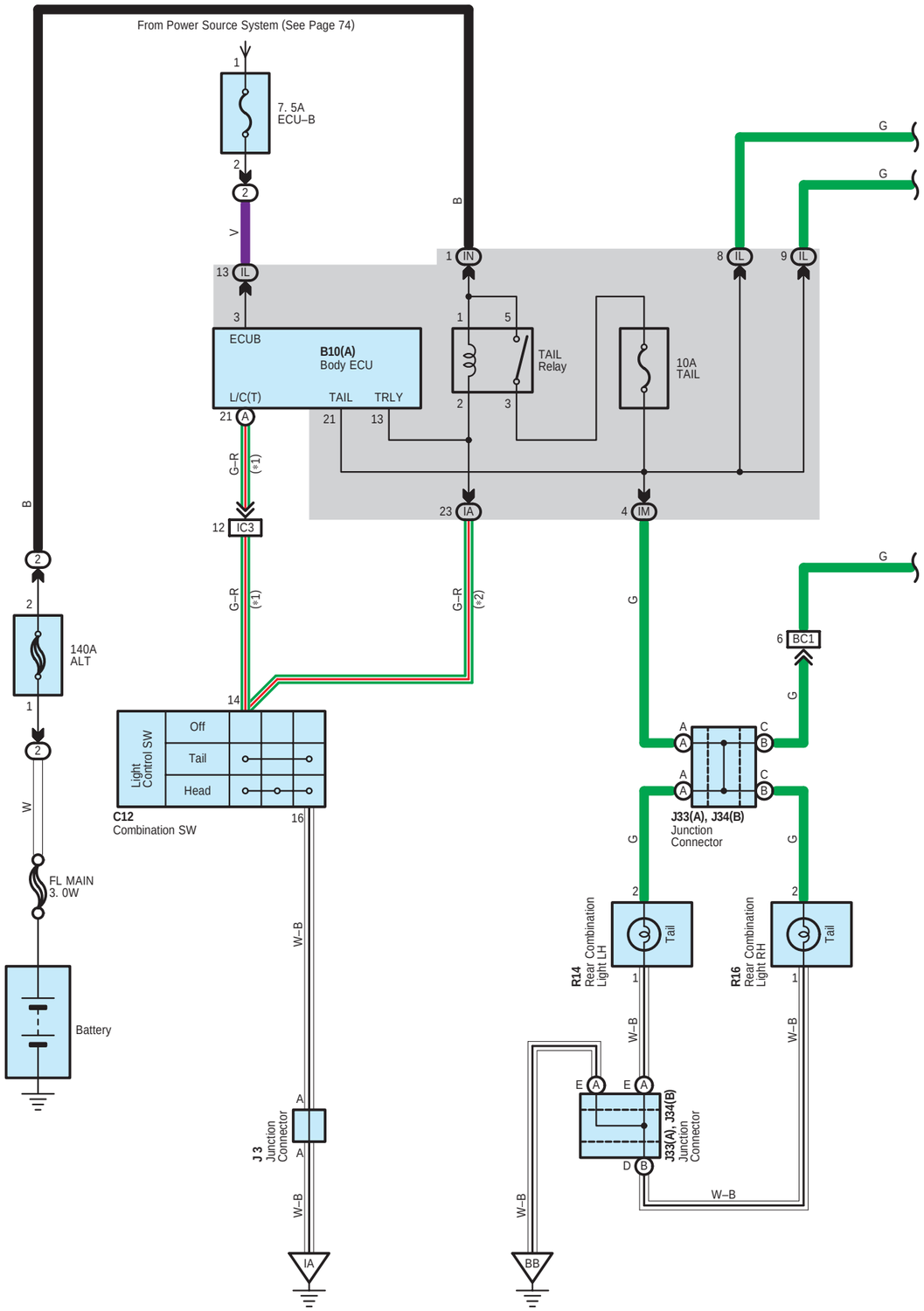


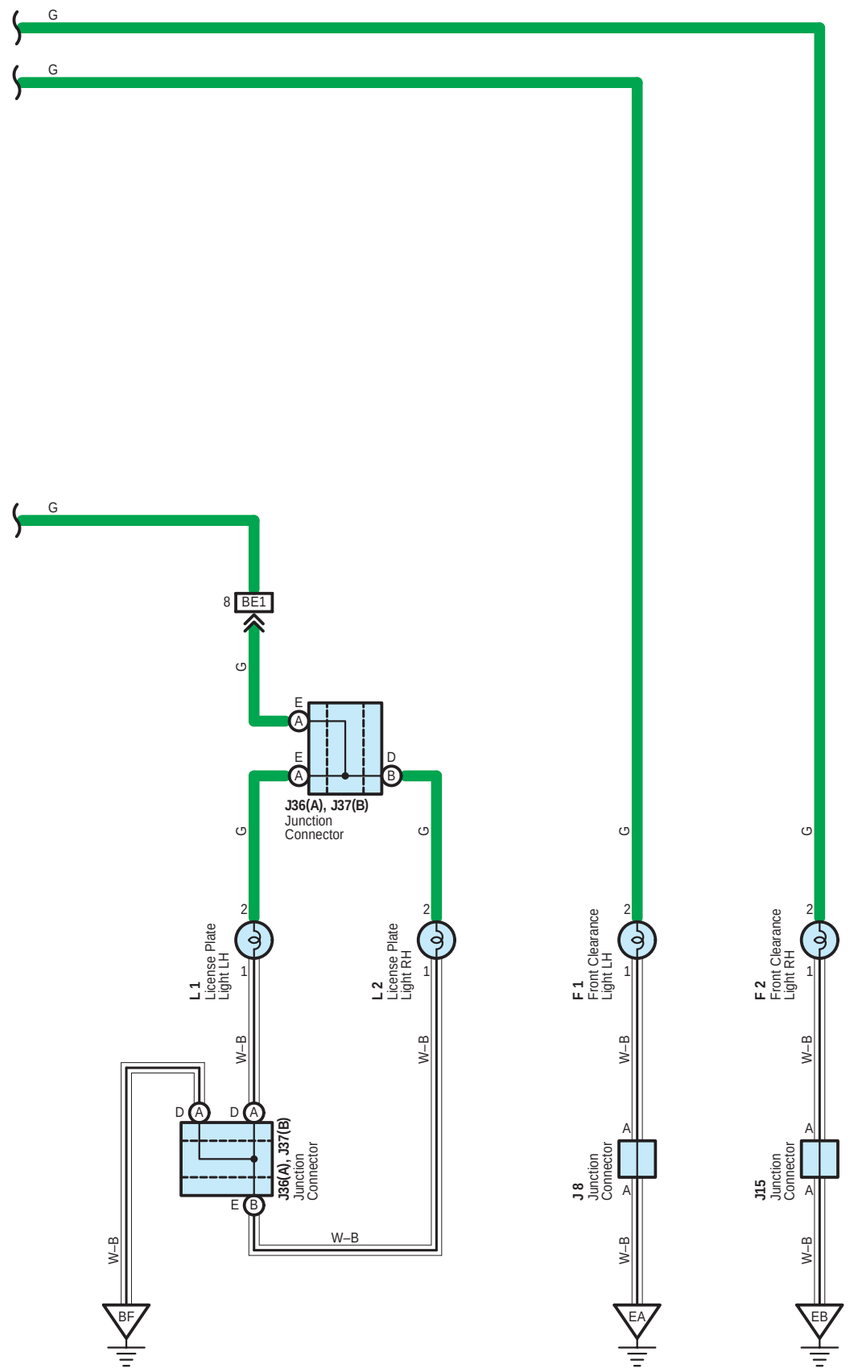
Theft Deterrent (RHD)



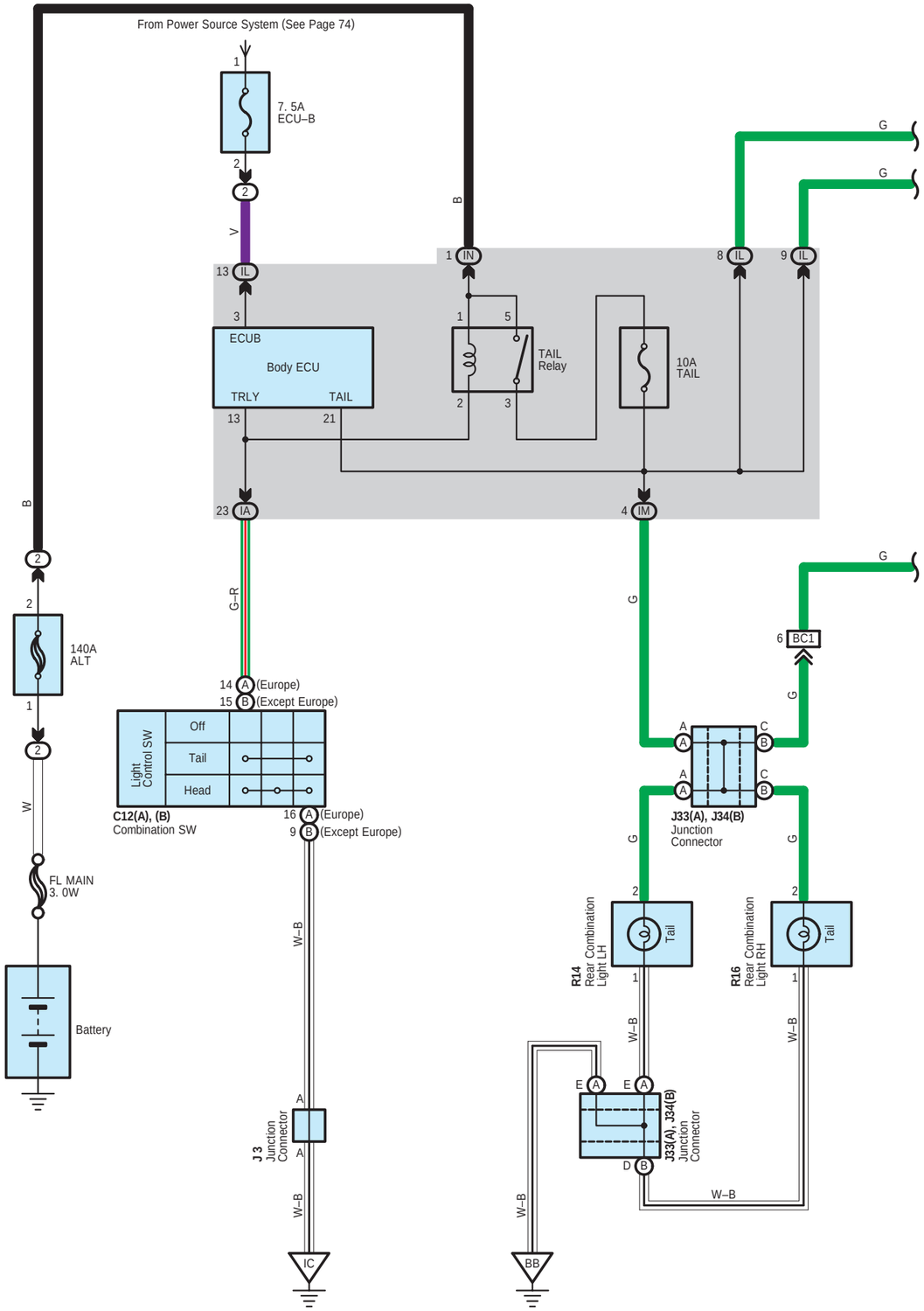
Taillight (LHD)

* 1 : w/ Daytime Running Light
* 2 : w/o Daytime Running Light

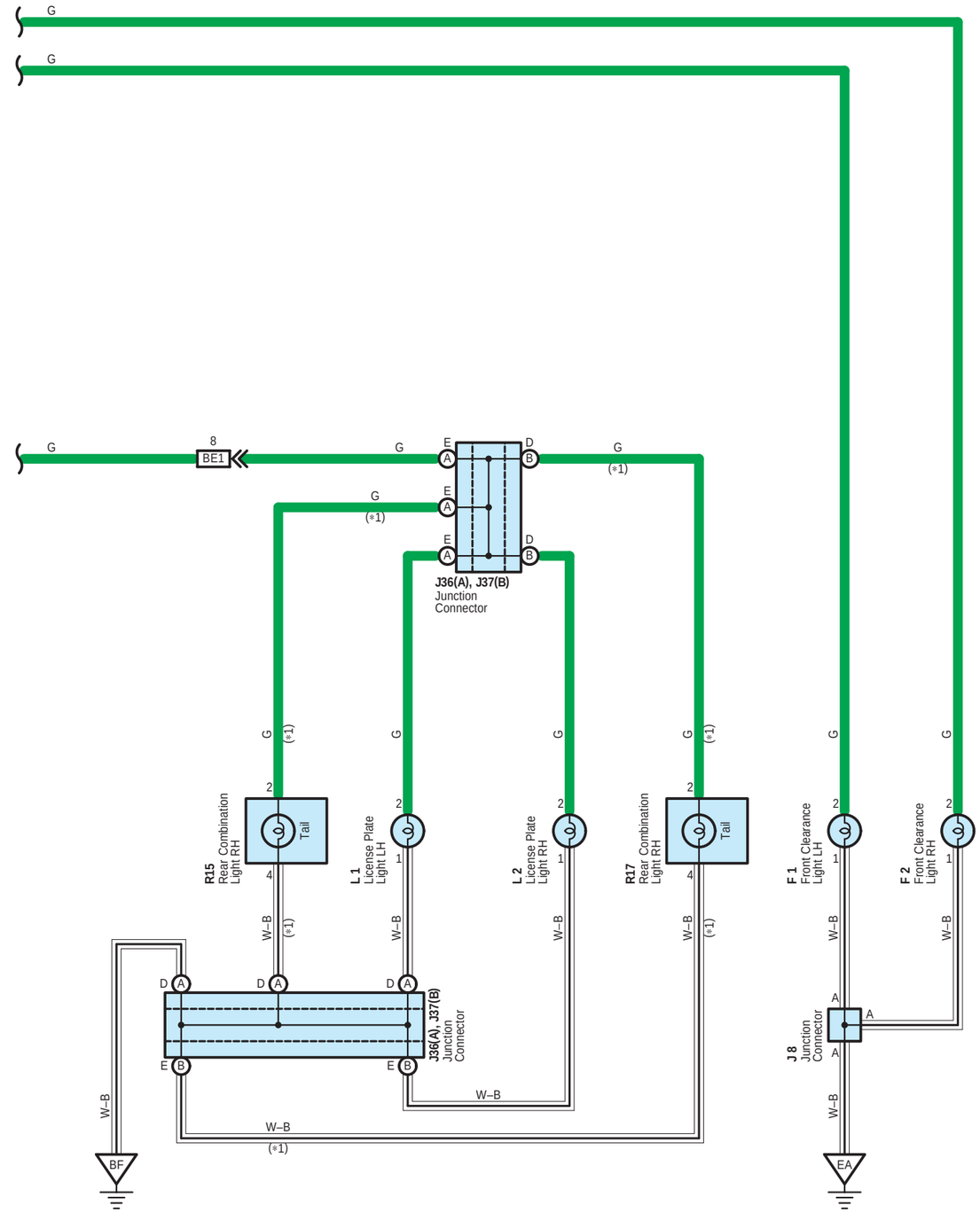




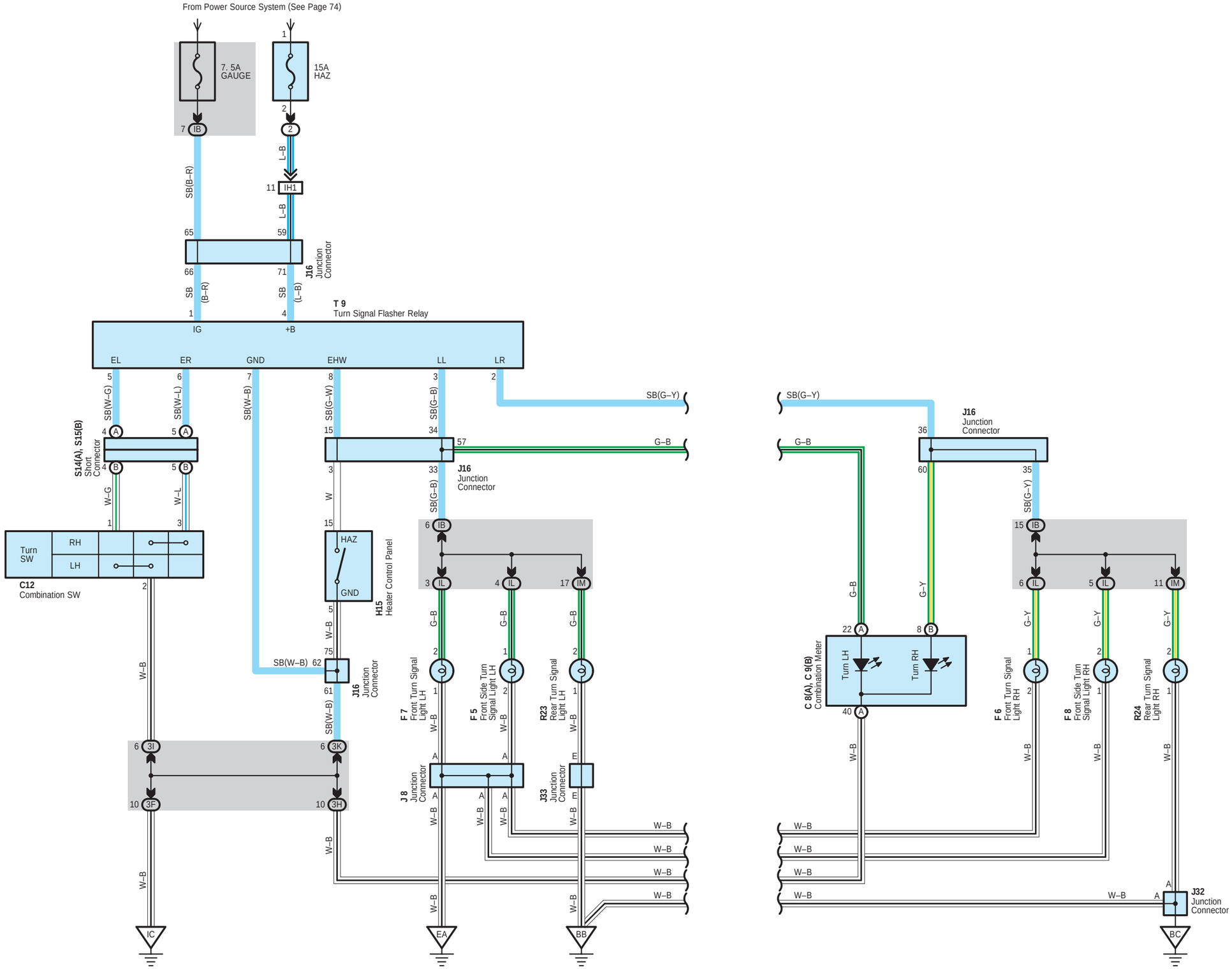
Taillight (RHD)



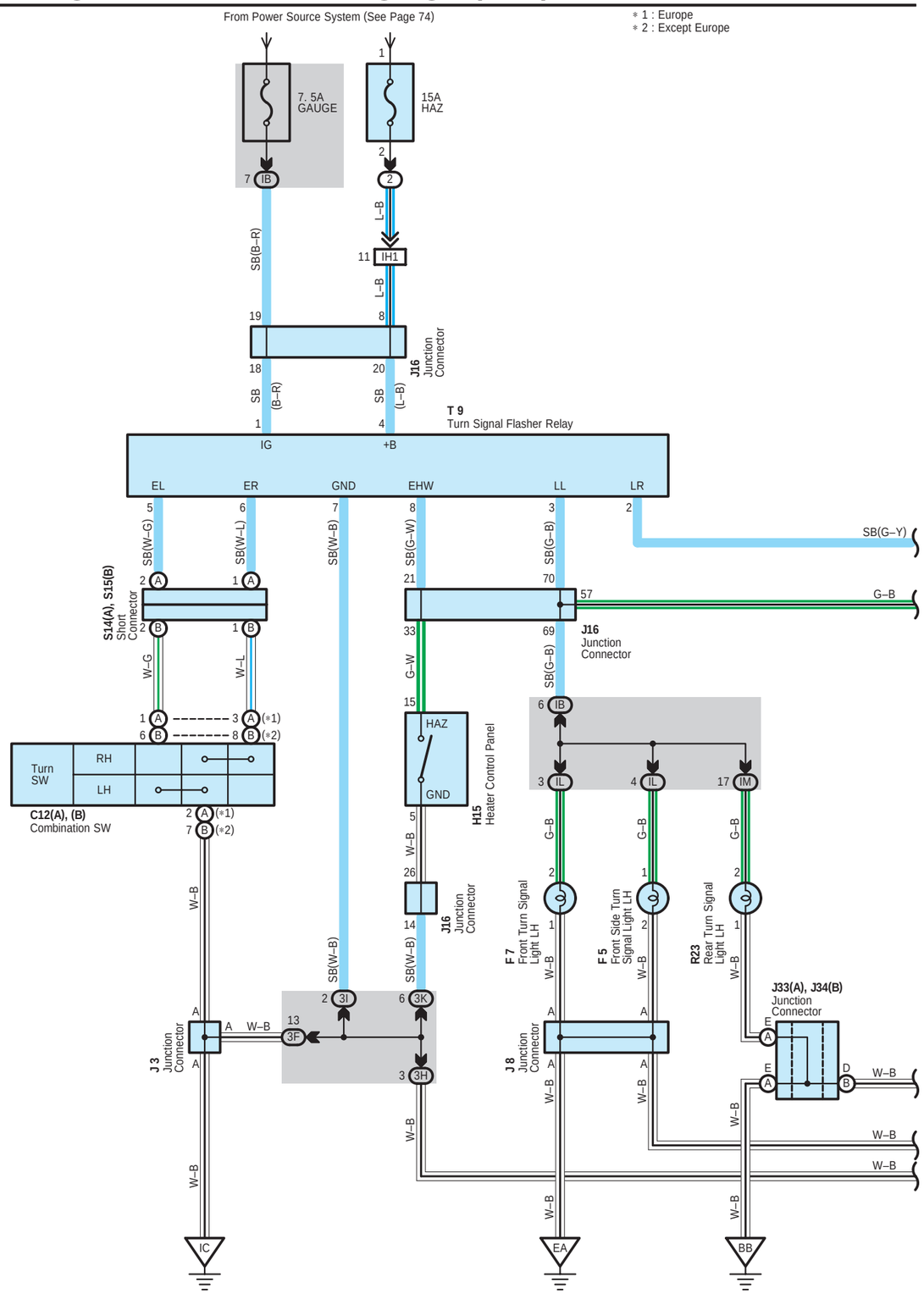
∗ 1 : General

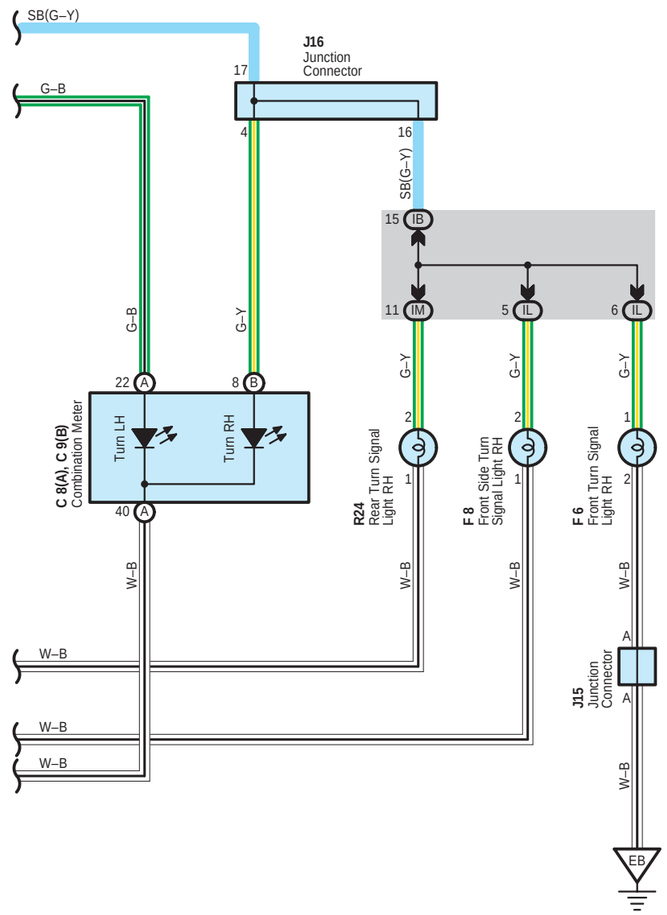


Turn Signal and Hazard Warning Light (LHD)

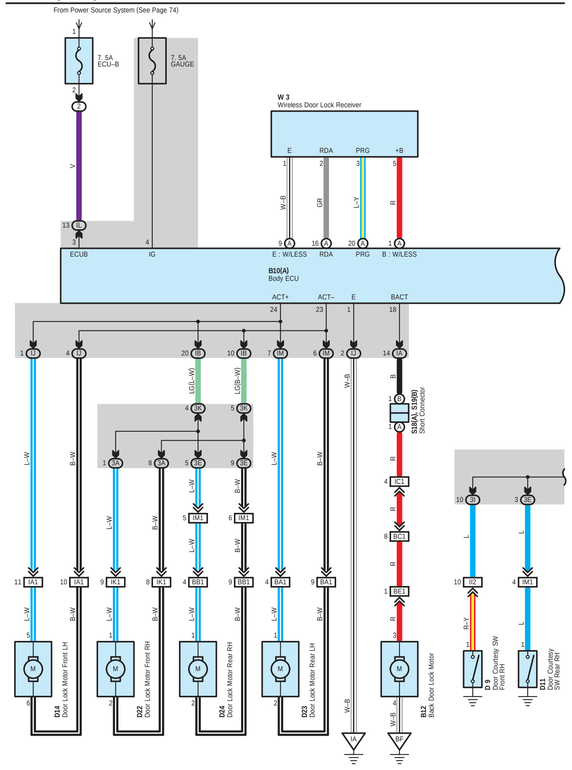


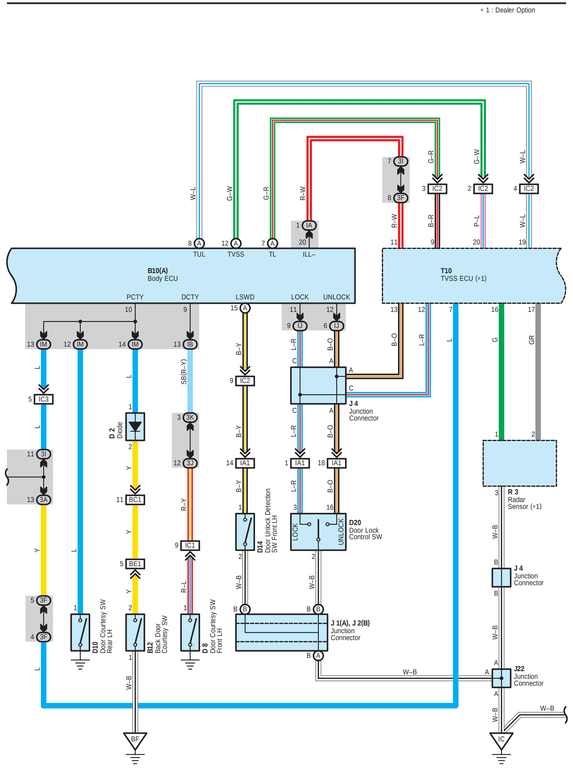
Turn Signal and Hazard Warning Light (RHD)



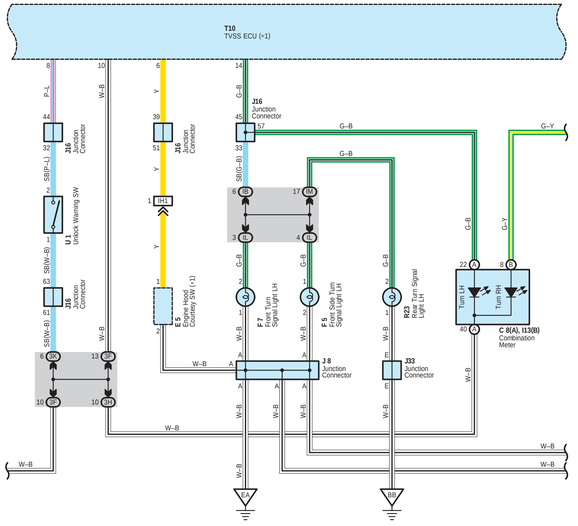


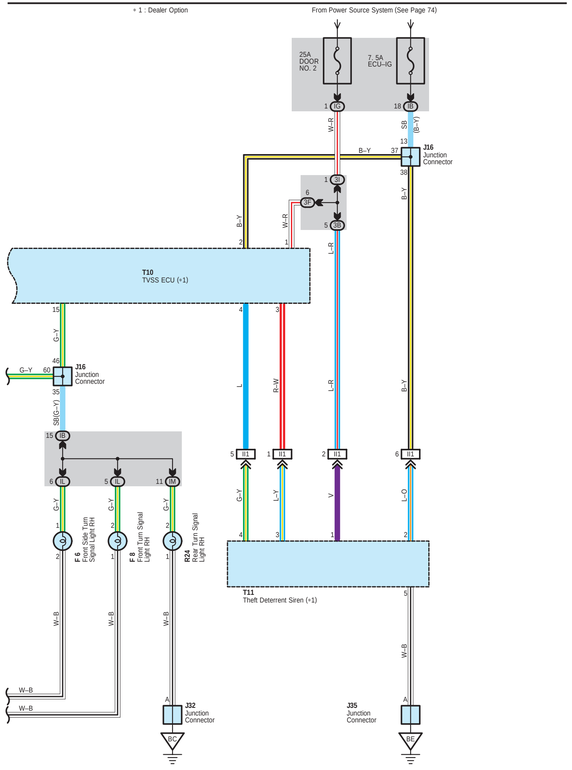
TVSS (LHD)



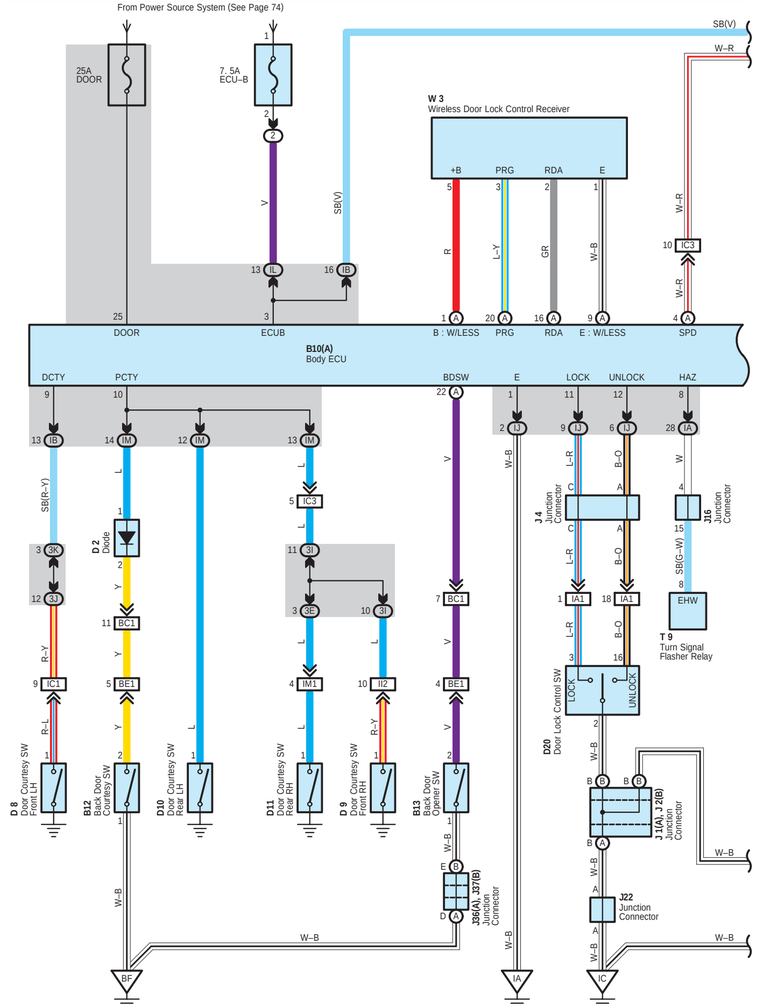


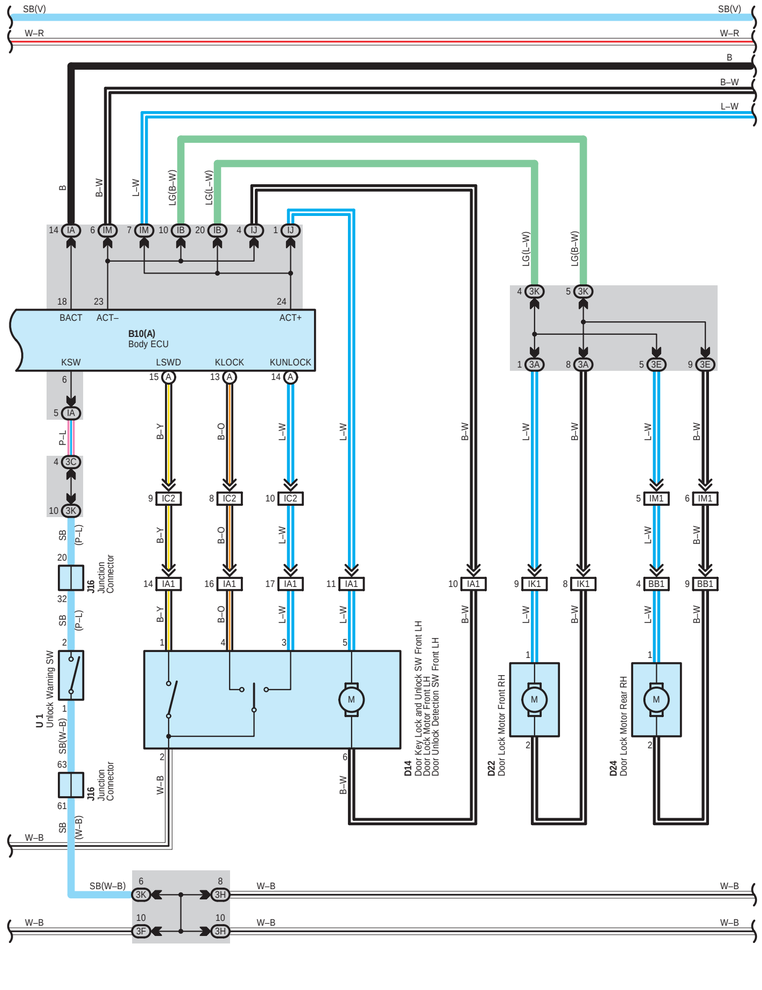
TVSS (LHD)

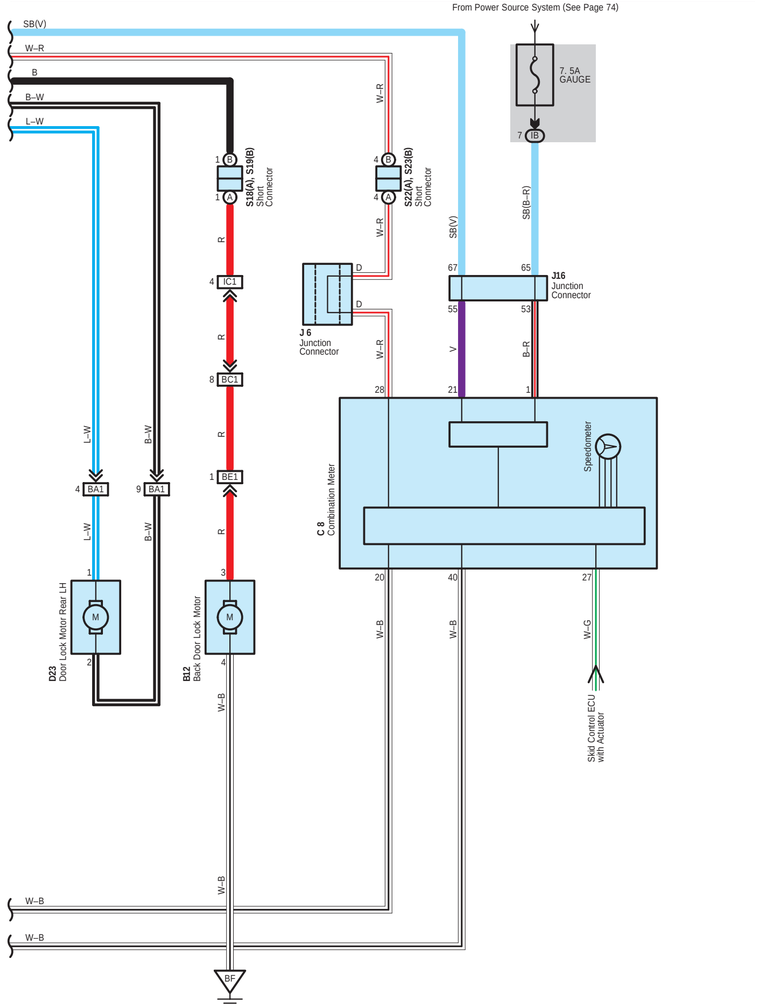




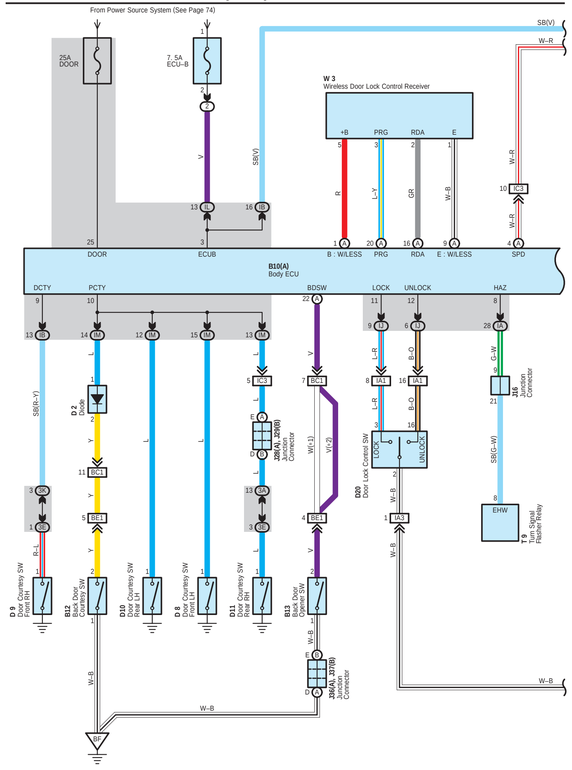
Wireless Door Lock Control (LHD)

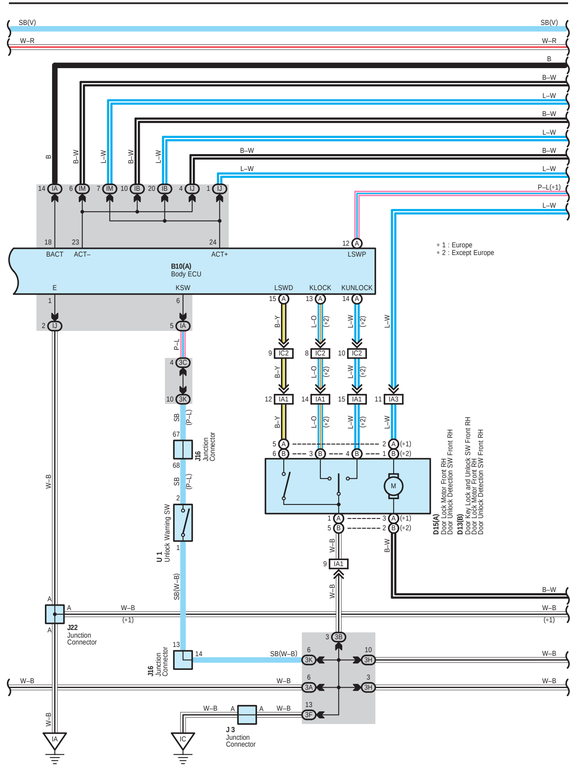




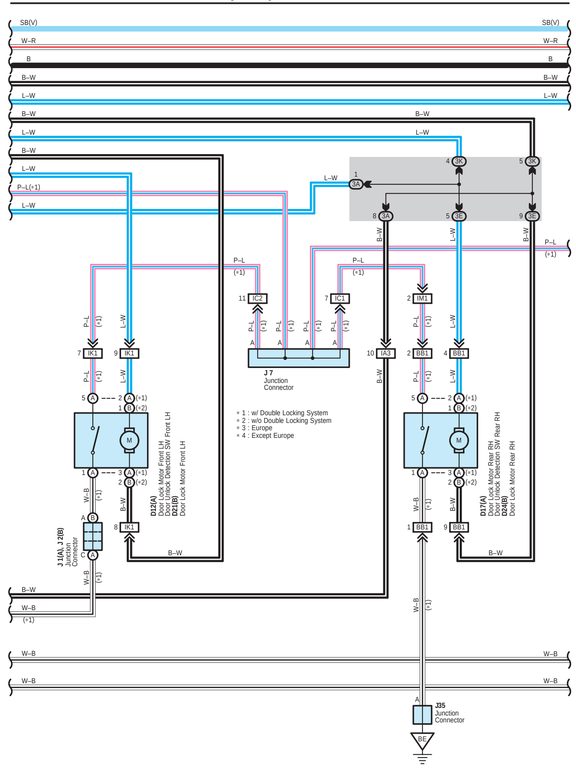


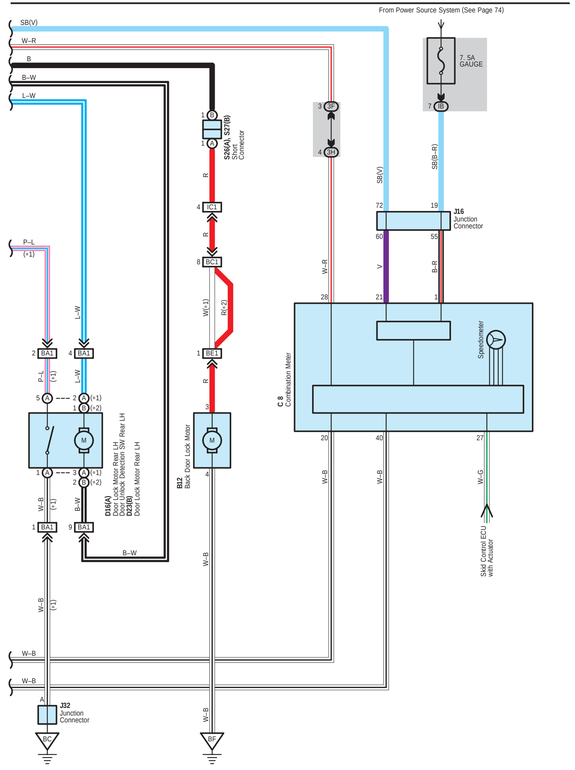
Wireless Door Lock Control (RHD)





Wireless Door Lock Control (RHD)





System Outline

∗ ABS system
This system controls the respective brake fluid pressures acting on the disc brake cylinders of the right front wheel, left front wheel and rear wheels when the brakes are applied in a panic stop so that the wheels do not lock. This results in improved directional stability and steerability during panic braking.
∗ Front and rear braking force distribution system
Using the hydraulic controlling device, this system distributes the braking force to the front and rear wheel in appropriately according to the running condition of the vehicle.

1. Input Signals

(1) Speed sensor signal
The speed of the wheels is detected and input to TERMINALS FL+, FR+, RL+ and RR+ of the skid control ECU with actuator.

(2) Stop light SW signal
A signal is input to TERMINAL STP– of the skid control ECU with actuator when the brake pedal is depressed.

2. System Operation

During sudden braking the skid control ECU with actuator has signals input from each sensor, which controls the current to the solenoid inside the actuator and lets the hydraulic pressure acting on each wheel cylinder escape to the reservoir. The pump inside the actuator is also operating at this time and it returns the brake fluid from the reservoir to the master cylinder, thus preventing locking of the vehicle wheels.
If the skid control ECU with actuator judges that the hydraulic pressure acting on the wheel cylinder is insufficient, the current on the solenoid is controlled and the hydraulic pressure is increased. Holding of the hydraulic pressure is also controlled by the skid control ECU with actuator, by the same method as above. Pressure reduction, holding and increase are repeated to maintain vehicle stability and to improve steerability during sudden braking.

Service Hints

S2, S3 Speed Sensor Front LH, RH
2–1 : **1.4** –**1.8** kΩ (**20**°C, **68**°F)

S41, S42 Speed Sensor Rear LH, RH
1–2 : Below **2.2** kΩ

S1 Skid Control ECU with Actuator
1, 23–Ground : Always approx. **12** volts
25–Ground : Approx. **12** volts with the ignition SW at **ON** position
18–Ground : Approx. **12** volts with the brake pedal depressed
2, 20, 24–Ground : Always continuity

○ : Parts Location

Code		See Page	Code		See Page	Code		See Page
A2		32 (LHD 1AZ–FE)	J16		38 (LHD)	S3		35 (LHD 1CD–FTV)
C8	A	36 (LHD)	J23	A	38 (LHD)	S16	A	39 (LHD)
C9	B	36 (LHD)	J24	B	38 (LHD)	S17	B	39 (LHD)
D6		37 (LHD)	P3		38 (LHD)	S38		39 (LHD)
F19		37 (LHD)	S1		33 (LHD 1AZ–FE)	S41		41 (LHD)
J5	A	38 (LHD)			35 (LHD 1CD–FTV)	S42		41 (LHD)
J6	B	38 (LHD)	S2		33 (LHD 1AZ–FE)	S43	A	39 (LHD)
J11	A	38 (LHD)			35 (LHD 1CD–FTV)	S44	B	39 (LHD)
J12	B	38 (LHD)	S3		33 (LHD 1AZ–FE)			

▭ : Relay Blocks

Code	See Page	Relay Blocks (Relay Block Location)
2	22	Engine Room R/B (Front Side of Left Suspension Tower)

: Junction Block and Wire Harness Connector

Code	See Page	Junction Block and Wire Harness (Connector Location)
IA	24 (LHD)	Instrument Panel J/B and Instrument Panel Wire (Lower Finish Panel)
IB		
IC		
IL	25 (LHD)	Instrument Panel J/B and Engine Room Main Wire (Lower Finish Panel)

: Connector Joining Wire Harness and Wire Harness

Code	See Page	Joining Wire Harness and Wire Harness (Connector Location)
EA1	52 (LHD 1AZ–FE)	Engine Wire and Engine Room Main Wire (Near The Engine Room R/B)
	54 (LHD 1CD–FTV)	
ID2	56 (LHD)	Instrument Panel Wire and Engine Room Main Wire (Upper Part of Front Body Pillar LH)
IE1	56 (LHD)	Engine Room Main Wire and Floor Wire (Upper Part of Front Body Pillar LH)
IH1	58 (LHD)	Instrument Panel Wire and Engine Room Main Wire (Upper Part of Front Body Pillar RH)
IJ1	58 (LHD)	Engine Room Main Wire and Floor No.2 Wire (Upper Part of Front Body Pillar RH)
IL3	58 (LHD)	Engine Wire and Instrument Panel Wire (Right Kick Panel)

: Ground Points

Code	See Page	Ground Points Location
EB	52 (LHD 1AZ–FE)	Right Radiator Side Support
	54 (LHD 1CD–FTV)	

: Splice Points

Code	See Page	Wire Harness with Splice Points	Code	See Page	Wire Harness with Splice Points
E1	52 (LHD 1AZ–FE)	Engine Room Main Wire	E1	54 (LHD 1CD–FTV)	Engine Room Main Wire

ABS (RHD)

System Outline

∗ ABS system

This system controls the respective brake fluid pressures acting on the disc brake cylinders of the right front wheel, left front wheel and rear wheels when the brakes are applied in a panic stop so that the wheels do not lock. This results in improved directional stability and steerability during panic braking.

∗ Front and rear braking force distribution system

Using the hydraulic controlling device, this system distributes the braking force to the front and rear wheel in appropriately according to the running condition of the vehicle.

1. Input Signals

(1) Speed sensor signal

The speed of the wheels is detected and input to TERMINALS FL+, FR+, RL+ and RR+ of the skid control ECU with actuator.

(2) Stop light SW signal

A signal is input to TERMINAL STP– of the skid control ECU with actuator when the brake pedal is depressed.

2. System Operation

During sudden braking the skid control ECU with actuator has signals input from each sensor, which controls the current to the solenoid inside the actuator and lets the hydraulic pressure acting on each wheel cylinder escape to the reservoir. The pump inside the actuator is also operating at this time and it returns the brake fluid from the reservoir to the master cylinder, thus preventing locking of the vehicle wheels.

If the skid control ECU with actuator judges that the hydraulic pressure acting on the wheel cylinder is insufficient, the current on the solenoid is controlled and the hydraulic pressure is increased. Holding of the hydraulic pressure is also controlled by the skid control ECU with actuator, by the same method as above. Pressure reduction, holding and increase are repeated to maintain vehicle stability and to improve steerability during sudden braking.

Service Hints

S2, S3 Speed Sensor Front LH, RH

2–1 : **1.4** –**1.8** kΩ (**20**°C, **68**°F)

S41, S42 Speed Sensor Rear LH, RH

1–2 : Below **2.2** kΩ

S1 Skid Control ECU with Actuator

1, 23–Ground : Always approx. **12** volts

25–Ground : Approx. **12** volts with the ignition SW at **ON** position

18–Ground : Approx. **12** volts with the brake pedal depressed

2, 20, 24–Ground : Always continuity

○ : Parts Location

Code	See Page	Code	See Page	Code	See Page
A2	42 (RHD 1AZ–FE)	J27 B	48 (RHD)	S3	45 (RHD 1CD–FTV)
C8 A	46 (RHD)	P3	48 (RHD)	S16 A	49 (RHD)
C9 B	46 (RHD)	S1	43 (RHD 1AZ–FE)	S17 B	49 (RHD)
D6	47 (RHD)		45 (RHD 1CD–FTV)	S38	49 (RHD)
F19	47 (RHD)	S2	43 (RHD 1AZ–FE)	S41	51 (RHD)
J16	48 (RHD)		45 (RHD 1CD–FTV)	S42	51 (RHD)
J26 A	48 (RHD)	S3	43 (RHD 1AZ–FE)		

▭ : Relay Blocks

Code	See Page	Relay Blocks (Relay Block Location)
2	22	Engine Room R/B (Front Side of Left Suspension Tower)

: Junction Block and Wire Harness Connector

Code	See Page	Junction Block and Wire Harness (Connector Location)
IA	24 (RHD)	Instrument Panel J/B and Instrument Panel Wire (Left Side of Grove Box)
IB		
IL	25 (RHD)	Instrument Panel J/B and Engine Room Main Wire (Left Side of Grove Box)
3A	28 (RHD)	Center J/B and Instrument Panel Wire (Lower Finish Panel)
3D		
3I		
3J		

: Connector Joining Wire Harness and Wire Harness

Code	See Page	Joining Wire Harness and Wire Harness (Connector Location)
IE1	66 (RHD)	Engine Room Main Wire and Floor Wire (Upper Part of Front Body Pillar LH)
IH1	68 (RHD)	Instrument Panel Wire and Engine Room Main Wire (Upper Part of Front Body Pillar RH)
IJ1	68 (RHD)	Engine Room Main Wire and Floor No.2 Wire (Upper Part of Front Body Pillar RH)
IL1	66 (RHD)	Engine Wire and Instrument Panel Wire (Left Kick Panel)
IL3		

: Ground Points

Code	See Page	Ground Points Location
EB	62 (RHD 1AZ–FE)	Right Radiator Side Support
	64 (RHD 1CD–FTV)	

: Splice Points

Code	See Page	Wire Harness with Splice Points	Code	See Page	Wire Harness with Splice Points
E12	62 (RHD 1AZ–FE)	Engine Room Main Wire	E12	64 (RHD 1CD–FTV)	Engine Room Main Wire

Memo

Service Hints

B1 Back–Up Light SW (M/T)

2–1 : Closed with the shift lever at **R** position

A2 Back–Up Light SW (A/T)

3–2 : Closed with the shift lever at **R** position

: Parts Location

Code	See Page	Code		See Page	Code	See Page
A2	32 (LHD 1AZ–FE)	J36	A	40 (LHD)	R17	41 (LHD)
B1	32 (LHD 1AZ–FE)	J37	B	40 (LHD)		
	34 (LHD 1CD–FTV)	R15		41 (LHD)		

: Junction Block and Wire Harness Connector

Code	See Page	Junction Block and Wire Harness (Connector Location)
IC	24 (LHD)	Instrument Panel J/B and Instrument Panel Wire (Lower Finish Panel)
IM	25 (LHD)	Instrument Panel J/B and Floor Wire (Lower Finish Panel)

: Connector Joining Wire Harness and Wire Harness

Code	See Page	Joining Wire Harness and Wire Harness (Connector Location)
EA1	52 (LHD 1AZ–FE)	Engine Wire and Engine Room Main Wire (Near The Engine Room R/B)
	54 (LHD 1CD–FTV)	
ID2	56 (LHD)	Instrument Panel Wire and Engine Room Main Wire (Upper Part of Front Body Pillar LH)
BC1	60 (LHD)	Back Door No.1 Wire and Floor Wire (Upper Part of Left Quarter Panel)
BE1	60 (LHD)	Back Door No.1 Wire and Back Door No.2 Wire (Back Door Left)

: Ground Points

Code	See Page	Ground Points Location
BF	60 (LHD)	Center of the Back Door Panel

Service Hints

B1 Back–Up Light SW (M/T)

2–1 : Closed with the shift lever at **R** position

A2 Back–Up Light SW (A/T)

3–2 : Closed with the shift lever at **R** position

: Parts Location

Code	See Page	Code		See Page	Code	See Page
A2	42 (RHD 1AZ–FE)	J18		48 (RHD)	R15	51 (RHD)
B1	42 (RHD 1AZ–FE)	J32		50 (RHD)	R17	51 (RHD)
	44 (RHD 1CD–FTV)	J36	A	50 (RHD)		
B4	46 (RHD)	J37	B	50 (RHD)		

: Junction Block and Wire Harness Connector

Code	See Page	Junction Block and Wire Harness (Connector Location)
IB	24 (RHD)	Instrument Panel J/B and Instrument Panel Wire (Left Side of Grove Box)
IC	24 (RHD)	Instrument Panel J/B and Engine Wire (Left Side of Grove Box)
IM	25 (RHD)	Instrument Panel J/B and Floor Wire (Left Side of Grove Box)
3A	28 (RHD)	Center J/B and Instrument Panel Wire (Lower Finish Panel)
3D		
3I		

: Connector Joining Wire Harness and Wire Harness

Code	See Page	Joining Wire Harness and Wire Harness (Connector Location)
IC1	66 (RHD)	Instrument Panel Wire and Floor Wire (Upper Part of Front Body Pillar LH)
IL1	66 (RHD)	Engine Wire and Instrument Panel Wire (Left Kick Panel)
BC1	70 (RHD)	Back Door No.1 Wire and Floor Wire (Upper Part of Left Quarter Panel)
BE1	70 (RHD)	Back Door No.1 Wire and Back Door No.2 Wire (Back Door Left)

: Ground Points

Code	See Page	Ground Points Location
BC	70 (RHD)	Left Quarter Panel
BF	70 (RHD)	Center of the Back Door Panel

Service Hints

C6 Cigarette Lighter

2–Ground : Approx. **12** volts with the ignition SW at **ACC** or **ON** position
4–Ground : Always continuity

P8 Power Outlet

1–Ground : Approx. **12** volts with the ignition SW at **ACC** or **ON** position
2–Ground : Always continuity

P4 Power Outlet Relay

5–3 : Closed with the ignition SW at **ACC** or **ON** position

: Parts Location

Code	See Page	Code	See Page	Code	See Page
C6	36 (LHD)	J32	40 (LHD)	P8	41 (LHD)
J3	38 (LHD)	P4	38 (LHD)		

: Junction Block and Wire Harness Connector

Code	See Page	Junction Block and Wire Harness (Connector Location)
IA	24 (LHD)	Instrument Panel J/B and Instrument Panel Wire (Lower Finish Panel)
IB		
IJ		
3C	28 (LHD)	Center J/B and Instrument Panel Wire (Right Side of Grove Box)
3K		

: Connector Joining Wire Harness and Wire Harness

Code	See Page	Joining Wire Harness and Wire Harness (Connector Location)
IC3	56 (LHD)	Instrument Panel Wire and Floor Wire (Upper Part of Front Body Pillar LH)

: Ground Points

Code	See Page	Ground Points Location
IA	56 (LHD)	Left Kick Panel
BC	60 (LHD)	Left Quarter Panel

Service Hints

C6 Cigarette Lighter

2–Ground : Approx. **12** volts with the ignition SW at **ACC** or **ON** position
4–Ground : Always continuity

P8 Power Outlet

1–Ground : Approx. **12** volts with the ignition SW at **ACC** or **ON** position
2–Ground : Always continuity

P4 Power Outlet Relay

5–3 : Closed with the ignition SW at **ACC** or **ON** position

: Parts Location

Code	See Page	Code	See Page	Code	See Page
C6	46 (RHD)	J22	48 (RHD)	P4	48 (RHD)
J3	48 (RHD)	J32	50 (RHD)	P8	51 (RHD)

: Junction Block and Wire Harness Connector

Code	See Page	Junction Block and Wire Harness (Connector Location)
IA	24 (RHD)	Instrument Panel J/B and Instrument Panel Wire (Left Side of Grove Box)
IB		
IJ		
3A	28 (RHD)	Center J/B and Instrument Panel Wire (Lower Finish Panel)
3C		
3I		
3K		

: Connector Joining Wire Harness and Wire Harness

Code	See Page	Joining Wire Harness and Wire Harness (Connector Location)
IC3	66 (RHD)	Instrument Panel Wire and Floor Wire (Upper Part of Front Body Pillar LH)

: Ground Points

Code	See Page	Ground Points Location
IA	66 (RHD)	Left Kick Panel
IC	66 (RHD)	Right Kick Panel
BC	70 (RHD)	Left Quarter Panel

Combination Meter (LHD)

Service Hints

C8 (A), C9 (B) Combination Meter

(A) 1–Ground : Approx. **12** volts with the ignition SW at **ON** position
(A) 21–Ground : Always approx. **12** volts
(A) 23–Ground : Approx. **12** volts with the light control SW at **TAIL** or **HEAD** position
(A) 20–Ground : Always continuity
(A) 40–Ground : Always continuity

B2 Brake Fluid Level Warning SW

1–2 : Closed with the float down

○ : Parts Location

Code	See Page	Code	See Page	Code	See Page
A12	36 (LHD)	F18	40 (LHD)	J23 A	38 (LHD)
B2	32 (LHD 1AZ–FE)	F19	37 (LHD)	J24 B	38 (LHD)
	34 (LHD 1CD–FTV)	J3	38 (LHD)	J32	40 (LHD)
B3	34 (LHD 1CD–FTV)	J5 A	38 (LHD)	O1	33 (LHD 1AZ–FE)
B10	36 (LHD)	J6 B	38 (LHD)		35 (LHD 1CD–FTV)
C8 A	36 (LHD)	J9	38 (LHD)	P6	38 (LHD)
C9 B	36 (LHD)	J13 A	38 (LHD)	R4	38 (LHD)
E6	34 (LHD 1CD–FTV)	J14 B	38 (LHD)	S22 A	39 (LHD)
E7 A	37 (LHD)	J15	38 (LHD)	S23 B	39 (LHD)
E8 B	37 (LHD)	J16	38 (LHD)	S43 A	39 (LHD)
F11	34 (LHD 1CD–FTV)	J21	38 (LHD)	S44 B	39 (LHD)

⬭ : Relay Blocks

Code	See Page	Relay Blocks (Relay Block Location)
2	22	Engine Room R/B (Front Side of Left Suspension Tower)

⬭ : Junction Block and Wire Harness Connector

Code	See Page	Junction Block and Wire Harness (Connector Location)
IB	24 (LHD)	Instrument Panel J/B and Instrument Panel Wire (Lower Finish Panel)
IL	25 (LHD)	Instrument Panel J/B and Engine Room Main Wire (Lower Finish Panel)
3F	28 (LHD)	Center J/B and Instrument Panel Wire (Right Side of Grove Box)
3H		
3K		

▭ : Connector Joining Wire Harness and Wire Harness

Code	See Page	Joining Wire Harness and Wire Harness (Connector Location)
IC2	56 (LHD)	Instrument Panel Wire and Floor Wire (Upper Part of Front Body Pillar LH)
IC3		
IH1	58 (LHD)	Instrument Panel Wire and Engine Room Main Wire (Upper Part of Front Body Pillar RH)
IL2	58 (LHD)	Engine Wire and Instrument Panel Wire (Right Kick Panel)

▽ : Ground Points

Code	See Page	Ground Points Location
EB	52 (LHD 1AZ–FE)	Right Radiator Side Support
	54 (LHD 1CD–FTV)	
EE	54 (LHD 1CD–FTV)	Near the Starter
IA	56 (LHD)	Left Kick Panel
IC	56 (LHD)	Right Kick Panel
BB	60 (LHD)	Front Side of the Left Quarter Panel
BC	60 (LHD)	Left Quarter Panel

Combination Meter (RHD)

Service Hints

C8 (A), C9 (B) Combination Meter

(A) 1–Ground : Approx. **12** volts with the ignition SW at **ON** position
(A) 21–Ground : Always approx. **12** volts
(A) 23–Ground : Approx. **12** volts with the light control SW at **TAIL** or **HEAD** position
(A) 20–Ground : Always continuity
(A) 40–Ground : Always continuity

B2 Brake Fluid Level Warning SW

1–2 : Closed with the float down

: Parts Location

Code	See Page	Code	See Page	Code	See Page
A12	46 (RHD)	F11	44 (RHD 1CD–FTV)	J32	50 (RHD)
B2	42 (RHD 1AZ–FE)	F18	50 (RHD)	O1	43 (RHD 1AZ–FE)
	44 (RHD 1CD–FTV)	F19	47 (RHD)		45 (RHD 1CD–FTV)
B3	44 (RHD 1CD–FTV)	J3	48 (RHD)	R4	48 (RHD)
B10	46 (RHD)	J9	48 (RHD)	S16 A	49 (RHD)
C8 A	46 (RHD)	J15	48 (RHD)	S17 B	49 (RHD)
C9 B	46 (RHD)	J16	48 (RHD)	S30 A	49 (RHD)
E6	44 (RHD 1CD–FTV)	J21	48 (RHD)	S31 B	49 (RHD)
E7 A	47 (RHD)	J26 A	48 (RHD)	S34 A	49 (RHD)
E8 B	47 (RHD)	J27 B	48 (RHD)	S35 B	49 (RHD)

: Relay Blocks

Code	See Page	Relay Blocks (Relay Block Location)
2	22	Engine Room R/B (Front Side of Left Suspension Tower)

: Junction Block and Wire Harness Connector

Code	See Page	Junction Block and Wire Harness (Connector Location)
IB	24 (RHD)	Instrument Panel J/B and Instrument Panel Wire (Left Side of Grove Box)
IL	25 (RHD)	Instrument Panel J/B and Engine Room Main Wire (Left Side of Grove Box)
3D	28 (RHD)	Center J/B and Instrument Panel Wire (Lower Finish Panel)
3F		
3H		
3K		

: Connector Joining Wire Harness and Wire Harness

Code	See Page	Joining Wire Harness and Wire Harness (Connector Location)
IC2	66 (RHD)	Instrument Panel Wire and Floor Wire (Upper Part of Front Body Pillar LH)
IC3		
IH1	68 (RHD)	Instrument Panel Wire and Engine Room Main Wire (Upper Part of Front Body Pillar RH)
IL3	66 (RHD)	Engine Wire and Instrument Panel Wire (Left Kick Panel)

: Ground Points

Code	See Page	Ground Points Location
EB	62 (RHD 1AZ–FE)	Right Radiator Side Support
	64 (RHD 1CD–FTV)	
EE	64 (RHD 1CD–FTV)	Near the Starter
IC	66 (RHD)	Right Kick Panel
BB	70 (RHD)	Front Side of the Left Quarter Panel
BC	70 (RHD)	Left Quarter Panel

Service Hints

A9 (B) Alternator

(B) 1–Ground : **13.2**–**14.0** volts with the engine running **5000** rpm and **115**˚C (**239**˚F)

: Parts Location

Code		See Page	Code		See Page	Code		See Page
A8	A	32 (LHD 1AZ–FE)	F19		37 (LHD)	J38		33 (LHD 1AZ–FE)
		34 (LHD 1CD–FTV)	J5	A	38 (LHD)			35 (LHD 1CD–FTV)
A9	B	32 (LHD 1AZ–FE)	J6	B	38 (LHD)	P6		38 (LHD)
		34 (LHD 1CD–FTV)	J13	A	38 (LHD)	S43	A	39 (LHD)
C8		36 (LHD)	J14	B	38 (LHD)	S44	B	39 (LHD)
E10		37 (LHD)	J16		38 (LHD)			

: Relay Blocks

Code	See Page	Relay Blocks (Relay Block Location)
2	22	Engine Room R/B (Front Side of Left Suspension Tower)

: Junction Block and Wire Harness Connector

Code	See Page	Junction Block and Wire Harness (Connector Location)
IB	24 (LHD)	Instrument Panel J/B and Instrument Panel Wire (Lower Finish Panel)
2I	22	Engine Room J/B and Engine Wire (Front Side of Left Suspension Tower)

: Connector Joining Wire Harness and Wire Harness

Code	See Page	Joining Wire Harness and Wire Harness (Connector Location)
EA1	52 (LHD 1AZ–FE)	Engine Wire and Engine Room Main Wire (Near The Engine Room R/B)
	54 (LHD 1CD–FTV)	
IL3	58 (LHD)	Engine Wire and Instrument Panel Wire (Right Kick Panel)

Service Hints

A9 (B) Alternator

(B) 1–Ground : **13.2**–**14.0** volts with the engine running **5000** rpm and **115**˚C (**239**˚F)

: Parts Location

Code		See Page	Code		See Page	Code		See Page
A8	A	42 (RHD 1AZ–FE)	A9	B	44 (RHD 1CD–FTV)	F19		47 (RHD)
		44 (RHD 1CD–FTV)	C8		46 (RHD)	S16	A	49 (RHD)
A9	B	42 (RHD 1AZ–FE)	E10		47 (RHD)	S17	B	49 (RHD)

: Relay Blocks

Code	See Page	Relay Blocks (Relay Block Location)
2	22	Engine Room R/B (Front Side of Left Suspension Tower)

: Junction Block and Wire Harness Connector

Code	See Page	Junction Block and Wire Harness (Connector Location)
IC	24 (RHD)	Instrument Panel J/B and Engine Wire (Left Side of Grove Box)
2I	22	Engine Room J/B and Engine Wire (Front Side of Left Suspension Tower)

: Connector Joining Wire Harness and Wire Harness

Code	See Page	Joining Wire Harness and Wire Harness (Connector Location)
EA1	62 (RHD 1AZ–FE)	Engine Wire and Engine Room Main Wire (Near The Engine Room R/B)
	64 (RHD 1CD–FTV)	
IL3	66 (RHD)	Engine Wire and Instrument Panel Wire (Left Kick Panel)

System Outline

Manual Lock Operation

All the doors are locked when the door lock control SW or the driver's side door key linked SW is operated to lock.

Manual Unlock Operation

All the doors are unlocked when the door lock control SW or the driver's side door key linked SW is operated to unlock.

Ignition Key Reminder Operation

The doors can not be locked unless the key is removed from the ignition key cylinder.

Service Hints

Body ECU

3, 25–Ground : Always approx. **12** volts
1–Ground : Always continuity

U1 Unlock Warning SW

2–1 : Closed with the ignition key in cylinder

D8, D9, D10, D11 Door Courtesy SW Front LH, RH, Rear LH, RH

1–Ground : Continuity with the door open

B12 Back Door Courtesy SW

1–2 : Continuity with the back door open

: Parts Location

Code	See Page	Code	See Page	Code	See Page
B10 A	36 (LHD)	D20	40 (LHD)	J22	38 (LHD)
B12	40 (LHD)	D23	40 (LHD)	J36 A	40 (LHD)
B13	40 (LHD)	D24	40 (LHD)	J37 B	40 (LHD)
C8 A	36 (LHD)	H6	33 (LHD 1AZ–FE)	S18 A	39 (LHD)
C9 B	36 (LHD)		35 (LHD 1CD–FTV)	S19 B	39 (LHD)
D2	37 (LHD)	J1 A	38 (LHD)	S22 A	39 (LHD)
D8	40 (LHD)	J2 B	38 (LHD)	S23 B	39 (LHD)
D9	40 (LHD)	J4	38 (LHD)	U1	39 (LHD)
D10	40 (LHD)	J6	38 (LHD)		
D11	40 (LHD)	J16	38 (LHD)		

: Relay Blocks

Code	See Page	Relay Blocks (Relay Block Location)
2	22	Engine Room R/B (Front Side of Left Suspension Tower)

: Junction Block and Wire Harness Connector

Code	See Page	Junction Block and Wire Harness (Connector Location)
IA	24 (LHD)	Instrument Panel J/B and Instrument Panel Wire (Lower Finish Panel)
IB		
IJ		
IL	25 (LHD)	Instrument Panel J/B and Engine Room Main Wire (Lower Finish Panel)
IM	25 (LHD)	Instrument Panel J/B and Floor Wire (Lower Finish Panel)
3A	28 (LHD)	Center J/B and Instrument Panel Wire (Right Side of Grove Box)
3C		
3E		
3F		
3H		
3I		
3J		
3K		

Door Lock Control (LHD)

: Connector Joining Wire Harness and Wire Harness

Code	See Page	Joining Wire Harness and Wire Harness (Connector Location)
IA1	56 (LHD)	Front Door LH Wire and Instrument Panel Wire (Left Kick Panel)
IC1	56 (LHD)	Instrument Panel Wire and Floor Wire (Upper Part of Front Body Pillar LH)
IC2		
IC3		
II2	58 (LHD)	Instrument Panel Wire and Floor No.2 Wire (Upper Part of Front Body Pillar RH)
IK1	58 (LHD)	Front Door RH Wire and Instrument Panel Wire (Right Kick Panel)
IM1	58 (LHD)	Floor No.2 Wire and Instrument Panel Wire (Right Kick Panel)
BA1	60 (LHD)	Rear Door LH Wire and Floor Wire (Left Center Pillar)
BB1	60 (LHD)	Rear Door RH Wire and Floor No.2 Wire (Right Center Pillar)
BC1	60 (LHD)	Back Door No.1 Wire and Floor Wire (Upper Part of Left Quarter Panel)
BE1	60 (LHD)	Back Door No.1 Wire and Back Door No.2 Wire (Back Door Left)

: Ground Points

Code	See Page	Ground Points Location
IA	56 (LHD)	Left Kick Panel
IC	56 (LHD)	Right Kick Panel
BB	60 (LHD)	Front Side of the Left Quarter Panel
BF	60 (LHD)	Center of the Back Door Panel

Door Lock Control (RHD)

System Outline

Manual Lock Operation

All the doors are locked when the door lock control SW or the driver's side door key linked SW is operated to lock.

Manual Unlock Operation

All the doors are unlocked when the door lock control SW or the driver's side door key linked SW is operated to unlock.

Ignition Key Reminder Operation

The doors can not be locked unless the key is removed from the ignition key cylinder.

Service Hints

Body ECU

3, 25–Ground : Always approx. **12** volts

1–Ground : Always continuity

U1 Unlock Warning SW

2–1 : Closed with the ignition key in cylinder

D8, D9, D10, D11 Door Courtesy SW Front LH, RH, Rear LH, RH

1–Ground : Continuity with the door open

B12 Back Door Courtesy SW

1–2 : Continuity with the back door open

: Parts Location

Code	See Page	Code	See Page	Code	See Page
B10 A	46 (RHD)	D15 A	50 (RHD)	J7	48 (RHD)
B12	50 (RHD)	D16 A	50 (RHD)	J16	48 (RHD)
B13	50 (RHD)	D17 A	50 (RHD)	J22	48 (RHD)
C8 A	46 (RHD)	D20	50 (RHD)	J28 A	48 (RHD)
C9 B	46 (RHD)	D21 B	50 (RHD)	J29 B	48 (RHD)
D2	47 (RHD)	D23 B	50 (RHD)	J32	50 (RHD)
D8	50 (RHD)	D24 B	50 (RHD)	J35	50 (RHD)
D9	50 (RHD)	H6 B	43 (RHD 1AZ–FE)	J36 A	50 (RHD)
D10	50 (RHD)		45 (RHD 1CD–FTV)	J37 B	50 (RHD)
D11	50 (RHD)	J1 A	48 (RHD)	S26 A	49 (RHD)
D12 A	50 (RHD)	J2 B	48 (RHD)	S27 B	49 (RHD)
D13 B	50 (RHD)	J3	48 (RHD)	U1	49 (RHD)

: Relay Blocks

Code	See Page	Relay Blocks (Relay Block Location)
2	22	Engine Room R/B (Front Side of Left Suspension Tower)

: Junction Block and Wire Harness Connector

Code	See Page	Junction Block and Wire Harness (Connector Location)
IA	24 (RHD)	Instrument Panel J/B and Instrument Panel Wire (Left Side of Grove Box)
IB		
IJ		
IL	25 (RHD)	Instrument Panel J/B and Engine Room Main Wire (Left Side of Grove Box)
IM	25 (RHD)	Instrument Panel J/B and Floor Wire (Left Side of Grove Box)
3A	28 (RHD)	Center J/B and Instrument Panel Wire (Lower Finish Panel)
3B		
3C		
3E	28 (RHD)	Center J/B and Floor No.2 Wire (Lower Finish Panel)
3F	28 (RHD)	Center J/B and Instrument Panel Wire (Lower Finish Panel)
3H		
3K		

: **Connector Joining Wire Harness and Wire Harness**

Code	See Page	Joining Wire Harness and Wire Harness (Connector Location)
IA1	68 (RHD)	Front Door RH Wire and Instrument Panel Wire (Right Kick Panel)
IA3		
IC1	66 (RHD)	Instrument Panel Wire and Floor Wire (Upper Part of Front Body Pillar LH)
IC2		
IC3		
IK1	66 (RHD)	Front Door LH Wire and Instrument Panel Wire (Left Kick Panel)
IM1	68 (RHD)	Floor No.2 Wire and Instrument Panel Wire (Right Kick Panel)
BA1	70 (RHD)	Rear Door LH Wire and Floor Wire (Left Center Pillar)
BB1	70 (RHD)	Rear Door RH Wire and Floor No.2 Wire (Right Center Pillar)
BC1	70 (RHD)	Back Door No.1 Wire and Floor Wire (Upper Part of Left Quarter Panel)
BE1	70 (RHD)	Back Door No.1 Wire and Back Door No.2 Wire (Back Door Left)

: **Ground Points**

Code	See Page	Ground Points Location
IA	66 (RHD)	Left Kick Panel
IC	66 (RHD)	Right Kick Panel
BC	70 (RHD)	Left Quarter Panel
BE	70 (RHD)	Right Quarter Panel
BF	70 (RHD)	Center of the Back Door Panel

Service Hints

D7 Double Lock ECU

1–Ground : Always approx. **12** volts

14–Ground : Always continuity

: Parts Location

Code	See Page	Code	See Page	Code	See Page
B10 A	46 (RHD)	D17	50 (RHD)	J29 B	48 (RHD)
D7	47 (RHD)	D20	50 (RHD)	J30	48 (RHD)
D9	50 (RHD)	J3	48 (RHD)	J32	50 (RHD)
D12	50 (RHD)	J16	48 (RHD)	J35	50 (RHD)
D15	50 (RHD)	J22	48 (RHD)	W3	51 (RHD)
D16	50 (RHD)	J28 A	48 (RHD)		

: Relay Blocks

Code	See Page	Relay Blocks (Relay Block Location)
2	22	Engine Room R/B (Front Side of Left Suspension Tower)

: Junction Block and Wire Harness Connector

Code	See Page	Junction Block and Wire Harness (Connector Location)
IB	24 (RHD)	Instrument Panel J/B and Instrument Panel Wire (Left Side of Grove Box)
IG		
IJ		
IL	25 (RHD)	Instrument Panel J/B and Engine Room Main Wire (Left Side of Grove Box)
3A	28 (RHD)	Center J/B and Instrument Panel Wire (Lower Finish Panel)
3B		
3E	28 (RHD)	Center J/B and Floor No.2 Wire (Lower Finish Panel)
3F	28 (RHD)	Center J/B and Instrument Panel Wire (Lower Finish Panel)
3G		
3K		
4A	30 (RHD)	Center J/B No.2 and Instrument Panel Wire (Near the Steering Column)
4C		

: Connector Joining Wire Harness and Wire Harness

Code	See Page	Joining Wire Harness and Wire Harness (Connector Location)
IA1	68 (RHD)	Front Door RH Wire and Instrument Panel Wire (Right Kick Panel)
IA3		
IC2	66 (RHD)	Instrument Panel Wire and Floor Wire (Upper Part of Front Body Pillar LH)
II2	68 (RHD)	Instrument Panel Wire and Floor No.2 Wire (Upper Part of Front Body Pillar RH)
IK1	66 (RHD)	Front Door LH Wire and Instrument Panel Wire (Left Kick Panel)
BA1	70 (RHD)	Rear Door LH Wire and Floor Wire (Left Center Pillar)
BB1	70 (RHD)	Rear Door RH Wire and Floor No.2 Wire (Right Center Pillar)

: Ground Points

Code	See Page	Ground Points Location
IA	66 (RHD)	Left Kick Panel
IC	66 (RHD)	Right Kick Panel
BC	70 (RHD)	Left Quarter Panel

System Outline

The engine control system utilizes a microcomputer and maintains overall control of the engine, transmission etc. An outline of the engine control is given here.

1. Input Signals

(1) Water temp. signal circuit

The water temp. sensor detects the engine coolant temp. and has a built–in thermistor with a resistance, which varies according to the engine coolant temp.. The engine coolant temp. which is input into TERMINAL THW of the engine and ECT ECU (A/T) or engine ECU (M/T) as a control signal.

(2) Intake air temp. signal circuit

The intake air temp. sensor is installed in the air flow meter and detects the intake air temp. which is input as a control signal to TERMINAL THA of the engine and ECT ECU (A/T) or engine ECU (M/T).

(3) Oxygen density signal circuit

The oxygen density in the exhaust emission is detected by the heated oxygen sensors and input as a control signal to TERMINALS OX1B and OX2B of the engine and ECT ECU (A/T) or engine ECU (M/T).

(4) RPM signal circuit

Camshaft position and crankshaft position are detected by the camshaft position sensor and crankshaft position sensor. Camshaft position is input as a control signal to TERMINAL G22+ of the engine and ECT ECU (A/T) or engine ECU (M/T), and engine RPM is input into TERMINAL NE+.

(5) Throttle position signal circuit

The throttle position sensor detects the throttle valve opening angle as a control signal, which is input into TERMINAL VTA of the engine and ECT ECU (A/T) or engine ECU (M/T).

(6) Vehicle speed circuit

The speed sensor detects the vehicle speed and inputs a control signal to TERMINAL SPD of the engine and ECT ECU (A/T) or engine ECU (M/T).

(7) Battery signal circuit

Voltage is constantly applied to TERMINAL BATT of the engine and ECT ECU (A/T) or engine ECU (M/T). With the ignition SW turned on, the voltage for engine and ECT ECU (A/T) or engine ECU (M/T) start–up power supply is applied to TERMINAL +B of the engine and ECT ECU (A/T) or engine ECU (M/T) via the EFI relay.

(8) A/C SW signal circuit

The A/C amplifier inputs the A/C operations into TERMINAL AC1 of the engine and ECT ECU (A/T) or engine ECU (M/T).

(9) Stop light SW signal circuit

The stop light SW is used to detect whether the vehicle is braking or not and the signal is input into TERMINAL STP of the engine and ECT ECU (A/T) or engine ECU (M/T) as a control signal.

(10) Starter signal circuit

To confirm whether the engine is cranking, the voltage is applied to the starter motor during cranking is detected and the signal is input into TERMINAL STA of the engine and ECT ECU (A/T) or engine ECU (M/T) as a control signal.

(11) Engine knock signal circuit

Engine knocking is detected by knock sensor and the signal is input into TERMINAL KNK1 as a control signal.

(12) Air fuel ratio signal system

The air fuel ratio is detected and input as a control signal into TERMINALS AF1A+, AF2A+ of the engine and ECT ECU (A/T) or engine ECU (M/T).

(13) Fuel cut in a collision

The system receives the collision signal from airbag sensor assembly in the vehicle has a collision and stops the fuel pump operation on the side of the engine and ECT ECU (A/T) or engine ECU (M/T).

2. Control System

∗ EFI system

The EFI system monitors the engine condition through the signals input from each sensor (Input signals from (1) to (12) etc.) to the engine and ECT ECU (A/T) or engine ECU (M/T). And the control signal is output to TERMINALS #10, #20, #30, #40 of the engine and ECT ECU (A/T) or engine ECU (M/T) to operate the injector (Inject the fuel). The EFI system controls the fuel injection operation by the engine and ECT ECU (A/T) or engine ECU (M/T) in response to the driving conditions.

∗ ESA system

The ESA system monitors the engine condition through the signals input to the engine and ECT ECU (A/T) or engine ECU (M/T) from each sensor (Input signals from (1) to (12) etc.). The best ignition timing is decided according to this data and the memorized data in the engine and ECT ECU (A/T) or engine ECU (M/T) and the control signal is output to TERMINALS IGT1, IGT2, IGT3 and IGT4. This signal controls the igniter to provide the best ignition timing for the driving conditions.

∗ Heated oxygen sensor heater control system

The heated oxygen sensor heater control system turns the heater on when the intake air volume is low (Temp. of exhaust emissions is low), and warms up the oxygen sensors to improve detection performance of the sensors. The engine and ECT ECU (A/T) or engine ECU (M/T) evaluates the signals from each sensor, and outputs current to TERMINALS HT1B and HT2B to control the heater.

∗ ISC system

The ISC system (Rotary solenoid type) increases the RPM and provides idling stability for fast idle–up when the engine is cold and when the idle speed has dropped due to electrical load, etc. The engine and ECT ECU (A/T) or engine ECU (M/T) evaluates the signals from each sensor (Input signals (1), (4) to (6), (8) and (11) etc.), outputs current to TERMINAL RSD, and controls the ISC valve.

3. Diagnosis System

With the diagnosis system, when there is a malfunction in the engine and ECT ECU (A/T) or engine ECU (M/T) signal system, the malfunctioning system is recorded in the memory. The malfunctioning system can be found by reading the code displayed by the check engine warning light.

4. Fail–safe System

When a malfunction has occurred in any system, if there is a possibility of engine trouble being caused by continued control based on the signals from that system, the fail–safe system either controls the system by using data (Standard values) recorded in the engine and ECT ECU (A/T) or engine ECU (M/T) memory or else stops the engine.

Service Hints

EFI Relay

5–3 : Closed with the ignition SW at **ON** or **ST** position

E7 (A), E8 (B), E9 (C), E10 (D), E11 (E) Engine and ECT ECU (A/T) or Engine ECU (M/T)

Voltage at engine and ECT ECU (A/T) or engine ECU (M/T) wiring connector

BATT–E1 : Always **9.0**–**14.0** volts
+B–E1 : **9.0**–**14.0** volts (Ignition SW at **ON** position)
VC–E2 : **4.5**–**5.5** volts (Ignition SW at **ON** position)
VTA–E2 : **0.3**–**1.0** volts (Ignition SW on and throttle valve fully closed)
3.2–**4.9** volts (Ignition SW on and throttle valve fully open)
VG–E2G : **1.1**–**1.5** volts (Engine idling and A/C SW off)
THA–E2 : **0.5**–**3.4** volts (Engine idling and intake air temp. **20**˚C, **68**˚F)
THW–E2 : **0.2**–**1.0** volts (Engine idling and coolant temp. **80**˚C, **176**˚F)
IGF–E1 : **4.5**–**5.5** volts (Ignition SW at **ON** position)
Pulse generation (Engine idling)
SIL–E1 : Pulse generation (During transmission)
TACH–E1 : Pulse generation (Engine idling)
STA–E1 : **6.0** volts or more (Engine cranking)
FC–E01 : **9.0**–**14.0** volts (Ignition SW at **ON** position)
0–**3.0** volts (Engine idling)
SPD–E1 : Pulse generation (Ignition SW on and rotate driving wheel slowly)
W–E01 : Below **3.0** volts (Ignition SW at **ON** position)
NSW–E1 : **9.0**–**14.0** volts (Ignition SW on and other shift position in **P** or **N** position)
0–**3.0** volts (Ignition SW on and shift position in **P** or **N** position)
STP–E1 : **7.5**–**14.0** volts (Ignition SW on and brake pedal depressed)
Below **1.5** volts (Ignition SW on and brake pedal released)
KNK1–E1 : Pulse generation (Engine idling)
PSW–E1 : **9.0**–**14.0** volts (Ignition SW at **ON** position)
HAF1A–E04 : Below **4.0** volts (Engine idling)
9.0–**14.0** volts (Ignition SW at **ON** position)
HAF2A–E05 : Below **4.0** volts (Engine idling)
9.0–**14.0** volts (Ignition SW at **ON** position)
IGSW–E1 : **9.0**–**14.0** volts (Ignition SW at **ON** position)
MREL–E1 : **9.0**–**14.0** volts (Ignition SW at **ON** position)
G22+, NE+ –NE– : Pulse generation (Engine idling)
OCV+ –OCV– : Pulse generation (Ignition SW at **ON** position)
HT1B, HT2B–E1 : **9.0**–**14.0** volts (Engine idling)
Below **3.0** volts (Ignition SW at **ON** position)
AF1A+, AF2A+ –E1 : **3.3** volts (Ignition SW at **ON** position)
AF1A–, AF2A– –E1 : **3.0** volts (Ignition SW at **ON** position)
OX1B, OX2B–E1 : Pulse generation (Maintain engine speed at **2500** rpm for 90 sec. after warming up)
IGT1, IGT2, IGT3, IGT4–E1 : Pulse generation (Engine idling)
#10, #20, #30, #40–E01 : **9.0**–**14.0** volts (Ignition SW at **ON** position)
Pulse generation (Engine idling)

Engine Control (LHD 1AZ–FE)

○ : Parts Location

Code	See Page	Code	See Page	Code	See Page
A2	32 (LHD 1AZ–FE)	F19	37 (LHD)	J23 A	38 (LHD)
A3	32 (LHD 1AZ–FE)	H9	33 (LHD 1AZ–FE)	J24 B	38 (LHD)
A4	32 (LHD 1AZ–FE)	H10	33 (LHD 1AZ–FE)	J32	40 (LHD)
A5	32 (LHD 1AZ–FE)	I5	33 (LHD 1AZ–FE)	K1	33 (LHD 1AZ–FE)
C1	32 (LHD 1AZ–FE)	I6	33 (LHD 1AZ–FE)	P1	33 (LHD 1AZ–FE)
C2	32 (LHD 1AZ–FE)	I7	33 (LHD 1AZ–FE)	S16 A	39 (LHD)
C5	32 (LHD 1AZ–FE)	I8	33 (LHD 1AZ–FE)	S17 B	39 (LHD)
C7	36 (LHD)	I10	33 (LHD 1AZ–FE)	S20 A	39 (LHD)
C8 A	36 (LHD)	I11	37 (LHD)	S21 B	39 (LHD)
D6	37 (LHD)	J5 A	38 (LHD)	S38	39 (LHD)
E7 A	37 (LHD)	J6 B	38 (LHD)	S43 A	39 (LHD)
E8 B	37 (LHD)	J13 A	38 (LHD)	S44 B	39 (LHD)
E9 C	37 (LHD)	J14 B	38 (LHD)	T1	33 (LHD 1AZ–FE)
E10 D	37 (LHD)	J16	38 (LHD)	V2	33 (LHD 1AZ–FE)
E11 E	37 (LHD)	J17	38 (LHD)	W1	33 (LHD 1AZ–FE)
F18	40 (LHD)	J19	38 (LHD)		

⬭ : Relay Blocks

Code	See Page	Relay Blocks (Relay Block Location)
2	22	Engine Room R/B (Front Side of Left Suspension Tower)
7	23	Engine Room R/B No.2 (Front Side of Left Suspension Tower)

⬭ : Junction Block and Wire Harness Connector

Code	See Page	Junction Block and Wire Harness (Connector Location)
IA	24 (LHD)	Instrument Panel J/B and Instrument Panel Wire (Lower Finish Panel)
IB		
IC		
IL	25 (LHD)	Instrument Panel J/B and Engine Room Main Wire (Lower Finish Panel)
3D	28 (LHD)	Center J/B and Instrument Panel Wire (Right Side of Grove Box)
3F		
3H		
3K		

▭ : Connector Joining Wire Harness and Wire Harness

Code	See Page	Joining Wire Harness and Wire Harness (Connector Location)
EA1	52 (LHD 1AZ–FE)	Engine Wire and Engine Room Main Wire (Near The Engine Room R/B)
IC2	56 (LHD)	Instrument Panel Wire and Floor Wire (Upper Part of Front Body Pillar LH)
ID2	56 (LHD)	Instrument Panel Wire and Engine Room Main Wire (Upper Part of Front Body Pillar LH)
IE1	56 (LHD)	Engine Room Main Wire and Floor Wire (Upper Part of Front Body Pillar LH)
IL2	58 (LHD)	Engine Wire and Instrument Panel Wire (Right Kick Panel)
IL3		

▽ : Ground Points

Code	See Page	Ground Points Location
EA	52 (LHD 1AZ–FE)	Left Radiator Side Support
EC	52 (LHD 1AZ–FE)	Intake Side of Cylinder Block
ED	52 (LHD 1AZ–FE)	Left Side of Cylinder Block
IC	56 (LHD)	Right Kick Panel
BB	60 (LHD)	Front Side of the Left Quarter Panel
BC	60 (LHD)	Left Quarter Panel

: **Splice Points**

Code	See Page	Wire Harness with Splice Points	Code	See Page	Wire Harness with Splice Points
E2	52 (LHD 1AZ–FE)	Engine Wire	E7	52 (LHD 1AZ–FE)	Engine Room Main Wire
E3			I3	58 (LHD)	Engine Wire

System Outline

The engine control system utilizes a microcomputer and maintains overall control of the engine, etc. an outline of is given here.

1. Input Signals

(1) Engine coolant temp. signal system

The water temp. sensor detects the engine coolant temp. and has a built–in thermistor with a resistance varies according to the water temp. Thus the water temp. is input in the form of a control signal to TERMINAL THW of the engine ECU.

(2) Intake air temp. signal system

The intake air temp. sensor is detects the intake air temp., which is input as a control signal to TERMINAL THA of the engine ECU.

(3) RPM signal circuit

Camshaft position and crankshaft position are detected by the camshaft position sensor and crankshaft position sensor. Camshaft position is input as a control signal to TERMINAL G+ of the engine ECU, and engine RPM is input into TERMINAL NE+.

(4) Throttle signal system

The accelerator pedal position sensor detects the accelerator pedal opening angle, which is input as a control signal to TERMINALS VA, VAS of the engine ECU.

(5) Vehicle speed signal system

The speed sensor detects the vehicle speed and inputs a control signal to TERMINAL SP1 of the engine ECU.

(6) A/C SW signal system

The operating voltage of the A/C amplifier is detected and input in the form of a control signal to TERMINAL AC1 of the engine ECU.

(7) Battery signal system

Voltage is constantly applied to TERMINAL BATT of the engine ECU. When the ignition SW is turned to on, voltage for engine ECU operation is applied via the EFI relay to TERMINAL +B of the engine ECU.

(8) STA signal system

To confirm that the engine is cranking, the voltage applied to the starter motor during cranking is detected and is input as a control signal to TERMINAL STA of the engine ECU.

(9) Fuel temp. signal system

The fuel temp. sensor is detects the fuel temp., which is input as a control signal to TERMINAL THF of the engine ECU.

(10) Intake air vacuum pressure signal system

Intake air vacuum pressure is detected by the turbo pressure sensor and is input as a control signal to TERMINAL PIM of the engine ECU.

(11) Stop light SW signal circuit

The stop light SW is used to detect whether the vehicle is braking or not and the signal is input into TERMINAL STP of the engine ECU as a control signal.

2. Control System

* Glow plug relay control system
  When the engine starts, the glow plug relay is controlled in response to engine coolant temp. At that time, the engine ECU receives the signals (Input signals (1, 3, 8)), and the current is output to the TERMINAL GIND.
  As a result, the engine ECU controls the glow plug relay and makes the glow indicator light come on.
* EGR control system
  The EGR control system detects the signals from each sensors (Input signals (1, 3, 4, 10)), then the current is output to the TERMINAL EGR to control the VRV (EGR).
* A/C cut control system
  When the vehicle suddenly accelerates from low engine speed, this system cuts off air conditioner operation for a fixed period of time in response to the vehicle speed, throttle valve opening angle and intake manifold pressure in order to maintain acceleration performance.
  The ECU receives input signals (3, 4, 5, 6 and 10), and outputs signals to TERMINAL ACT.

3. Diagnosis System

With the diagnosis system, when there is a malfunctioning in the ECU signal system, the malfunction system is recorded in the memory. The malfunctioning system cab be found by reading the display (Code) of the check engine warning light.

4. Fail–safe System

When a malfunction occurs in any system, if there is a possibility of engine trouble being caused by continued control based on the signals from that system, the fail–safe system either controls the system by using data (Standard values) recorded in the ECU memory or else stops the engine.

Service Hints

EFI relay

5–3 : Closed with the ignition SW at **ON** or **ST** position

E7 (A), E8 (B), E10 (C), E11 (D) Engine ECU

Voltage at engine ECU wiring connector

BATT–E1 : Always **9.0**–**14.0** volts
+B–E1 : **9.0**–**14.0** volts (Ignition SW at **ON** position)
IGSW–E1 : **9.0**–**14.0** volts (Ignition SW at **ON** position)
MREL–E01 : **9.0**–**14.0** volts (Ignition SW at **ON** position)
VC–E2 : **4.5**–**5.5** volts (Ignition SW at **ON** position)
VA–E2C : **0.6**–**1.3** volts (Ignition SW ON accelerator pedal fully closed)
2.8–**4.5** volts (Ignition SW ON accelerator pedal fully opened)
VAS–E2C2 : **0.6**–**1.3** volts (Ignition SW ON accelerator pedal fully closed)
2.8–**4.5** volts (Ignition SW ON accelerator pedal fully opened)
THA–E2 : **0.2**–**3.8** volts (Engine idling and intake air temp. **0**˚C, **32**˚F–**60**˚C, **140**˚F)
THW–E2 : **0.1**–**1.5** volts (Engine idling and coolant temp. **60**˚C, **140**˚F–**120**˚C, **248**˚F)
SP1–E1 : Pulse generation (Ignition SW ON and rotate driving wheel slowly)
STA–E1 : **6.0** volts or more (Engine cranking)
LU+A–E1 : Pulse generation (Ignition SW ON)
LU–A–E1 : Pulse generation (Ignition SW ON)
LU+B–E1 : Pulse generation (Ignition SW ON)
LU–B–E1 : Pulse generation (Ignition SW ON)
TACH–E1 : Pulse generation (Engine idling)
NE+ –NE– : Pulse generation (Engine idling)
G+ –G– : Pulse generation (Engine idling)
W–E1 : **0**–**3.0** volts (Check engine warning light lights up)
9.0–**14.0** volts (Except check engine warning light lights up)
GIND–E1 : **0**–**3.0** volts (Glow indicator light lights up)
9.0–**14.0** volts (Except glow indicator light lights up)
TC–E1 : **9.0**–**14.0** volts (Ignition SW at **ON** position)
SIL–E1 : Pulse generation (Connect hand–held tester to DLC3)

: Parts Location

Code	See Page	Code	See Page	Code	See Page
A3	34 (LHD 1CD–FTV)	F19	37 (LHD)	R4	38 (LHD)
A9	34 (LHD 1CD–FTV)	G1	34 (LHD 1CD–FTV)	S6	35 (LHD 1CD–FTV)
A12 A	36 (LHD)	G2	34 (LHD 1CD–FTV)	S7	35 (LHD 1CD–FTV)
A16	36 (LHD)	I5	35 (LHD 1CD–FTV)	S16 A	39 (LHD)
B10 A	36 (LHD)	I6	35 (LHD 1CD–FTV)	S17 B	39 (LHD)
C1	34 (LHD 1CD–FTV)	I7	35 (LHD 1CD–FTV)	S20 A	39 (LHD)
C5	34 (LHD 1CD–FTV)	I8	35 (LHD 1CD–FTV)	S21 B	39 (LHD)
C8 A	36 (LHD)	I9	35 (LHD 1CD–FTV)	S22 A	39 (LHD)
D1	34 (LHD 1CD–FTV)	I11	37 (LHD)	S23 B	39 (LHD)
D6	37 (LHD)	J5 A	38 (LHD)	S38	39 (LHD)
E2	34 (LHD 1CD–FTV)	J6 B	38 (LHD)	S43 A	39 (LHD)
E3 A	34 (LHD 1CD–FTV)	J13 A	38 (LHD)	S44 B	39 (LHD)
E4 B	34 (LHD 1CD–FTV)	J14 B	38 (LHD)	T2	35 (LHD 1CD–FTV)
E7 A	37 (LHD)	J16	38 (LHD)	T4	35 (LHD 1CD–FTV)
E8 B	37 (LHD)	J17	38 (LHD)	T8	39 (LHD)
E10 C	37 (LHD)	J20	38 (LHD)	V1	35 (LHD 1CD–FTV)
E11 D	37 (LHD)	J21	38 (LHD)	V3	35 (LHD 1CD–FTV)
F13	34 (LHD 1CD–FTV)	J23 A	38 (LHD)	W1	35 (LHD 1CD–FTV)
F14	34 (LHD 1CD–FTV)	J24 B	38 (LHD)		

: Relay Blocks

Code	See Page	Relay Blocks (Relay Block Location)
2	22	Engine Room R/B (Front Side of Left Suspension Tower)
7	23	Engine Room R/B No.2 (Front Side of Left Suspension Tower)

: Junction Block and Wire Harness Connector

Code	See Page	Junction Block and Wire Harness (Connector Location)
IA	24 (LHD)	Instrument Panel J/B and Instrument Panel Wire (Lower Finish Panel)
IB		
IC		
IL	25 (LHD)	Instrument Panel J/B and Engine Room Main Wire (Lower Finish Panel)
3D	28 (LHD)	Center J/B and Instrument Panel Wire (Right Side of Grove Box)
3F		
3K		

: Connector Joining Wire Harness and Wire Harness

Code	See Page	Joining Wire Harness and Wire Harness (Connector Location)
EA1	54 (LHD 1CD–FTV)	Engine Wire and Engine Room Main Wire (Near The Engine Room R/B)
EB1	54 (LHD 1CD–FTV)	Engine Wire and Engine No.6 Wire (Near the Starter Motor)
EC1	54 (LHD 1CD–FTV)	Engine Wire and Engine No.4 Wire (Near the Starter Motor)
ID2	56 (LHD)	Instrument Panel Wire and Engine Room Main Wire (Upper Part of Front Body Pillar LH)
IH1	58 (LHD)	Instrument Panel Wire and Engine Room Main Wire (Upper Part of Front Body Pillar RH)
IL2	58 (LHD)	Engine Wire and Instrument Panel Wire (Right Kick Panel)
IL3		

: Ground Points

Code	See Page	Ground Points Location
EA	54 (LHD 1CD–FTV)	Left Radiator Side Support
EE	54 (LHD 1CD–FTV)	Near the Starter
IC	56 (LHD)	Right Kick Panel

: **Splice Points**

Code	See Page	Wire Harness with Splice Points	Code	See Page	Wire Harness with Splice Points
E8	54 (LHD 1CD–FTV)	Engine Wire	E11	54 (LHD 1CD–FTV)	Engine Wire
E9			I3	58 (LHD)	
E10					

System Outline

The engine control system utilizes a microcomputer and maintains overall control of the engine, transmission etc. An outline of the engine control is given here.

1. Input Signals

(1) Water temp. signal circuit

The water temp. sensor detects the engine coolant temp. and has a built–in thermistor with a resistance, which varies according to the engine coolant temp.. The engine coolant temp. which is input into TERMINAL THW of the engine and ECT ECU (A/T) or engine ECU (M/T) as a control signal.

(2) Intake air temp. signal circuit

The intake air temp. sensor is installed in the air flow meter and detects the intake air temp. which is input as a control signal to TERMINAL THA of the engine and ECT ECU (A/T) or engine ECU (M/T).

(3) Oxygen density signal circuit

The oxygen density in the exhaust emission is detected by the heated oxygen sensors and input as a control signal to TERMINALS OX1B and OX2B of the engine and ECT ECU (A/T) or engine ECU (M/T).

(4) RPM signal circuit

Camshaft position and crankshaft position are detected by the camshaft position sensor and crankshaft position sensor. Camshaft position is input as a control signal to TERMINAL G22+ of the engine and ECT ECU (A/T) or engine ECU (M/T), and engine RPM is input into TERMINAL NE+.

(5) Throttle position signal circuit

The throttle position sensor detects the throttle valve opening angle as a control signal, which is input into TERMINAL VTA of the engine and ECT ECU (A/T) or engine ECU (M/T).

(6) Vehicle speed circuit

The speed sensor detects the vehicle speed and inputs a control signal to TERMINAL SPD of the engine and ECT ECU (A/T) or engine ECU (M/T).

(7) Battery signal circuit

Voltage is constantly applied to TERMINAL BATT of the engine and ECT ECU (A/T) or engine ECU (M/T). With the ignition SW turned on, the voltage for engine and ECT ECU (A/T) or engine ECU (M/T) start–up power supply is applied to TERMINAL +B of the engine and ECT ECU (A/T) or engine ECU (M/T) via the EFI relay.

(8) A/C SW signal circuit

The A/C amplifier inputs the A/C operations into TERMINAL AC1 of the engine and ECT ECU (A/T) or engine ECU (M/T).

(9) Stop light SW signal circuit

The stop light SW is used to detect whether the vehicle is braking or not and the signal is input into TERMINAL STP of the engine and ECT ECU (A/T) or engine ECU (M/T) as a control signal.

(10) Starter signal circuit

To confirm whether the engine is cranking, the voltage is applied to the starter motor during cranking is detected and the signal is input into TERMINAL STA of the engine and ECT ECU (A/T) or engine ECU (M/T) as a control signal.

(11) Engine knock signal circuit

Engine knocking is detected by knock sensor and the signal is input into TERMINAL KNK1 as a control signal.

(12) Air fuel ratio signal system

The air fuel ratio is detected and input as a control signal into TERMINALS AF1A+, AF2A+ of the engine and ECT ECU (A/T) or engine ECU (M/T).

(13) Fuel cut in a collision

The system receives the collision signal from airbag sensor assembly in the vehicle has a collision and stops the fuel pump operation on the side of the engine and ECT ECU (A/T) or engine ECU (M/T).

2. Control System

∗ EFI system

The EFI system monitors the engine condition through the signals input from each sensor (Input signals from (1) to (12) etc.) to the engine and ECT ECU (A/T) or engine ECU (M/T). And the control signal is output to TERMINALS #10, #20, #30, #40 of the engine and ECT ECU (A/T) or engine ECU (M/T) to operate the injector (Inject the fuel). The EFI system controls the fuel injection operation by the engine and ECT ECU (A/T) or engine ECU (M/T) in response to the driving conditions.

∗ ESA system

The ESA system monitors the engine condition through the signals input to the engine and ECT ECU (A/T) or engine ECU (M/T) from each sensor (Input signals from (1) to (12) etc.). The best ignition timing is decided according to this data and the memorized data in the engine and ECT ECU (A/T) or engine ECU (M/T) and the control signal is output to TERMINALS IGT1, IGT2, IGT3 and IGT4. This signal controls the igniter to provide the best ignition timing for the driving conditions.

∗ Heated oxygen sensor heater control system

The heated oxygen sensor heater control system turns the heater on when the intake air volume is low (Temp. of exhaust emissions is low), and warms up the oxygen sensors to improve detection performance of the sensors. The engine and ECT ECU (A/T) or engine ECU (M/T) evaluates the signals from each sensor, and outputs current to TERMINALS HT1B and HT2B to control the heater.

∗ ISC system

The ISC system (Rotary solenoid type) increases the RPM and provides idling stability for fast idle–up when the engine is cold and when the idle speed has dropped due to electrical load, etc. The engine and ECT ECU (A/T) or engine ECU (M/T) evaluates the signals from each sensor (Input signals (1), (4) to (6), (8) and (11) etc.), outputs current to TERMINAL RSD, and controls the ISC valve.

3. Diagnosis System

With the diagnosis system, when there is a malfunction in the engine and ECT ECU (A/T) or engine ECU (M/T) signal system, the malfunctioning system is recorded in the memory. The malfunctioning system can be found by reading the code displayed by the check engine warning light.

4. Fail–safe System

When a malfunction has occurred in any system, if there is a possibility of engine trouble being caused by continued control based on the signals from that system, the fail–safe system either controls the system by using data (Standard values) recorded in the engine and ECT ECU (A/T) or engine ECU (M/T) memory or else stops the engine.

Service Hints

EFI Relay

5–3 : Closed with the ignition SW at **ON** or **ST** position

E7 (A), E8 (B), E9 (C), E10 (D), E11 (E) Engine and ECT ECU (A/T) or Engine ECU (M/T)

Voltage at engine and ECT ECU (A/T) or engine ECU (M/T) wiring connector

BATT–E1 : Always **9.0**–**14.0** volts
+B–E1 : **9.0**–**14.0** volts (Ignition SW at **ON** position)
VC–E2 : **4.5**–**5.5** volts (Ignition SW at **ON** position)
VTA–E2 : **0.3**–**1.0** volts (Ignition SW on and throttle valve fully closed)
3.2–**4.9** volts (Ignition SW on and throttle valve fully open)
VG–E2G : **1.1**–**1.5** volts (Engine idling and A/C SW off)
THA–E2 : **0.5**–**3.4** volts (Engine idling and intake air temp. **20**˚C, **68**˚F)
THW–E2 : **0.2**–**1.0** volts (Engine idling and coolant temp. **80**˚C, **176**˚F)
IGF–E1 : **4.5**–**5.5** volts (Ignition SW at **ON** position)
Pulse generation (Engine idling)
SIL–E1 : Pulse generation (During transmission)
TACH–E1 : Pulse generation (Engine idling)
STA–E1 : **6.0** volts or more (Engine cranking)
FC–E01 : **9.0**–**14.0** volts (Ignition SW at **ON** position)
0–**3.0** volts (Engine idling)
SPD–E1 : Pulse generation (Ignition SW on and rotate driving wheel slowly)
W–E01 : Below **3.0** volts (Ignition SW at **ON** position)
NSW–E1 : **9.0**–**14.0** volts (Ignition SW on and other shift position in **P** or **N** position)
0–**3.0** volts (Ignition SW on and shift position in **P** or **N** position)
STP–E1 : **7.5**–**14.0** volts (Ignition SW on and brake pedal depressed)
Below **1.5** volts (Ignition SW on and brake pedal released)
KNK1–E1 : Pulse generation (Engine idling)
PSW–E1 : **9.0**–**14.0** volts (Ignition SW at **ON** position)
HAF1A–E04 : Below **4.0** volts (Engine idling)
9.0–**14.0** volts (Ignition SW at **ON** position)
HAF2A–E05 : Below **4.0** volts (Engine idling)
9.0–**14.0** volts (Ignition SW at **ON** position)
IGSW–E1 : **9.0**–**14.0** volts (Ignition SW at **ON** position)
MREL–E1 : **9.0**–**14.0** volts (Ignition SW at **ON** position)
G22+, NE+ –NE– : Pulse generation (Engine idling)
OCV+ –OCV– : Pulse generation (Ignition SW at **ON** position)
HT1B, HT2B–E1 : **9.0**–**14.0** volts (Engine idling)
Below **3.0** volts (Ignition SW at **ON** position)
AF1A+, AF2A+ –E1 : **3.3** volts (Ignition SW at **ON** position)
AF1A–, AF2A– –E1 : **3.0** volts (Ignition SW at **ON** position)
OX1B, OX2B–E1 : Pulse generation (Maintain engine speed at **2500** rpm for 90 sec. after warming up)
IGT1, IGT2, IGT3, IGT4–E1 : Pulse generation (Engine idling)
#10, #20, #30, #40–E01 : **9.0**–**14.0** volts (Ignition SW at **ON** position)
Pulse generation (Engine idling)

Engine Control (RHD 1AZ–FE)

: Parts Location

Code	See Page	Code	See Page	Code	See Page
A2	42 (RHD 1AZ–FE)	E11 E	47 (RHD)	J32	50 (RHD)
A3	42 (RHD 1AZ–FE)	F18	50 (RHD)	K1	43 (RHD 1AZ–FE)
A4	42 (RHD 1AZ–FE)	F19	47 (RHD)	P1	43 (RHD 1AZ–FE)
A5	42 (RHD 1AZ–FE)	H9	43 (RHD 1AZ–FE)	S16 A	49 (RHD)
C1	42 (RHD 1AZ–FE)	H10	43 (RHD 1AZ–FE)	S17 B	49 (RHD)
C2	42 (RHD 1AZ–FE)	I5	43 (RHD 1AZ–FE)	S30 A	49 (RHD)
C5	42 (RHD 1AZ–FE)	I6	43 (RHD 1AZ–FE)	S31 B	49 (RHD)
C7	46 (RHD)	I7	43 (RHD 1AZ–FE)	S32 A	49 (RHD)
C8	46 (RHD)	I8	43 (RHD 1AZ–FE)	S33 B	49 (RHD)
D6	47 (RHD)	I10	43 (RHD 1AZ–FE)	S38	49 (RHD)
E7 A	47 (RHD)	J3	48 (RHD)	T1	43 (RHD 1AZ–FE)
E8 B	47 (RHD)	J16	48 (RHD)	V2	43 (RHD 1AZ–FE)
E9 C	47 (RHD)	J19	48 (RHD)	W1	43 (RHD 1AZ–FE)
E10 D	47 (RHD)	J26 A	48 (RHD)		

: Relay Blocks

Code	See Page	Relay Blocks (Relay Block Location)
2	22	Engine Room R/B (Front Side of Left Suspension Tower)
7	23	Engine Room R/B No.2 (Front Side of Left Suspension Tower)

: Junction Block and Wire Harness Connector

Code	See Page	Junction Block and Wire Harness (Connector Location)
IA	24 (RHD)	Instrument Panel J/B and Instrument Panel Wire (Left Side of Grove Box)
IB		
IC	24 (RHD)	Instrument Panel J/B and Engine Wire (Left Side of Grove Box)
IL	25 (RHD)	Instrument Panel J/B and Engine Room Main Wire (Left Side of Grove Box)
3D	28 (RHD)	Center J/B and Instrument Panel Wire (Lower Finish Panel)
3F		
3H		
3I		

: Connector Joining Wire Harness and Wire Harness

Code	See Page	Joining Wire Harness and Wire Harness (Connector Location)
EA1	62 (RHD 1AZ–FE)	Engine Wire and Engine Room Main Wire (Near The Engine Room R/B)
IC2	66 (RHD)	Instrument Panel Wire and Floor Wire (Upper Part of Front Body Pillar LH)
ID2	66 (RHD)	Instrument Panel Wire and Engine Room Main Wire (Upper Part of Front Body Pillar LH)
IE1	66 (RHD)	Engine Room Main Wire and Floor Wire (Upper Part of Front Body Pillar LH)
IL3	66 (RHD)	Engine Wire and Instrument Panel Wire (Left Kick Panel)

: Ground Points

Code	See Page	Ground Points Location
EA	62 (RHD 1AZ–FE)	Left Radiator Side Support
EC	62 (RHD 1AZ–FE)	Intake Side of Cylinder Block
ED	62 (RHD 1AZ–FE)	Left Side of Cylinder Block
IC	66 (RHD)	Right Kick Panel
BC	70 (RHD)	Left Quarter Panel

: Splice Points

Code	See Page	Wire Harness with Splice Points	Code	See Page	Wire Harness with Splice Points
E13	62 (RHD 1AZ–FE)	Engine Wire	E17	62 (RHD 1AZ–FE)	Engine Room Main Wire

System Outline

The engine control system utilizes a microcomputer and maintains overall control of the engine, etc. an outline of is given here.

1. Input Signals

(1) Engine coolant temp. signal system

The water temp. sensor detects the engine coolant temp. and has a built–in thermistor with a resistance varies according to the water temp. Thus the water temp. is input in the form of a control signal to TERMINAL THW of the engine ECU.

(2) Intake air temp. signal system

The intake air temp. sensor is detects the intake air temp., which is input as a control signal to TERMINAL THA of the engine ECU.

(3) RPM signal circuit

Camshaft position and crankshaft position are detected by the camshaft position sensor and crankshaft position sensor. Camshaft position is input as a control signal to TERMINAL G+ of the engine ECU, and engine RPM is input into TERMINAL NE+.

(4) Throttle signal system

The accelerator pedal position sensor detects the accelerator pedal opening angle, which is input as a control signal to TERMINALS VA, VAS of the engine ECU.

(5) Vehicle speed signal system

The speed sensor detects the vehicle speed and inputs a control signal to TERMINAL SP1 of the engine ECU.

(6) A/C SW signal system

The operating voltage of the A/C amplifier is detected and input in the form of a control signal to TERMINAL AC1 of the engine ECU.

(7) Battery signal system

Voltage is constantly applied to TERMINAL BATT of the engine ECU. When the ignition SW is turned to on, voltage for engine ECU operation is applied via the EFI relay to TERMINAL +B of the engine ECU.

(8) STA signal system

To confirm that the engine is cranking, the voltage applied to the starter motor during cranking is detected and is input as a control signal to TERMINAL STA of the engine ECU.

(9) Fuel temp. signal system

The fuel temp. sensor is detects the fuel temp., which is input as a control signal to TERMINAL THF of the engine ECU.

(10) Intake air vacuum pressure signal system

Intake air vacuum pressure is detected by the turbo pressure sensor and is input as a control signal to TERMINAL PIM of the engine ECU.

(11) Stop light SW signal circuit

The stop light SW is used to detect whether the vehicle is braking or not and the signal is input into TERMINAL STP of the engine ECU as a control signal.

2. Control System

∗ Glow plug relay control system
When the engine starts, the glow plug relay is controlled in response to engine coolant temp. At that time, the engine ECU receives the signals (Input signals (1, 3, 8)), and the current is output to the TERMINAL GIND.
As a result, the engine ECU controls the glow plug relay and makes the glow indicator light come on.

∗ EGR control system
The EGR control system detects the signals from each sensors (Input signals (1, 3, 4, 10)), then the current is output to the TERMINAL EGR to control the VRV (EGR).

∗ A/C cut control system
When the vehicle suddenly accelerates from low engine speed, this system cuts off air conditioner operation for a fixed period of time in response to the vehicle speed, throttle valve opening angle and intake manifold pressure in order to maintain acceleration performance.
The ECU receives input signals (3, 4, 5, 6 and 10), and outputs signals to TERMINAL ACT.

3. Diagnosis System

With the diagnosis system, when there is a malfunctioning in the ECU signal system, the malfunction system is recorded in the memory. The malfunctioning system cab be found by reading the display (Code) of the check engine warning light.

4. Fail–safe System

When a malfunction occurs in any system, if there is a possibility of engine trouble being caused by continued control based on the signals from that system, the fail–safe system either controls the system by using data (Standard values) recorded in the ECU memory or else stops the engine.

Service Hints

EFI relay

5–3 : Closed with the ignition SW at **ON** or **ST** position

E7 (A), E8 (B), E10 (C), E11 (D) Engine ECU

Voltage at engine ECU wiring connector

BATT–E1 : Always **9.0**–**14.0** volts
+B–E1 : **9.0**–**14.0** volts (Ignition SW at **ON** position)
IGSW–E1 : **9.0**–**14.0** volts (Ignition SW at **ON** position)
MREL–E01 : **9.0**–**14.0** volts (Ignition SW at **ON** position)
VC–E2 : **4.5**–**5.5** volts (Ignition SW at **ON** position)
VA–E2C : **0.6**–**1.3** volts (Ignition SW ON accelerator pedal fully closed)
2.8–**4.5** volts (Ignition SW ON accelerator pedal fully opened)
VAS–E2C2 : **0.6**–**1.3** volts (Ignition SW ON accelerator pedal fully closed)
2.8–**4.5** volts (Ignition SW ON accelerator pedal fully opened)
THA–E2 : **0.2**–**3.8** volts (Engine idling and intake air temp. **0**˚C, **32**˚F–**60**˚C, **140**˚F)
THW–E2 : **0.1**–**1.5** volts (Engine idling and coolant temp. **60**˚C, **140**˚F–**120**˚C, **248**˚F)
SP1–E1 : Pulse generation (Ignition SW ON and rotate driving wheel slowly)
STA–E1 : **6.0** volts or more (Engine cranking)
LU+A–E1 : Pulse generation (Ignition SW ON)
LU–A–E1 : Pulse generation (Ignition SW ON)
LU+B–E1 : Pulse generation (Ignition SW ON)
LU–B–E1 : Pulse generation (Ignition SW ON)
TACH–E1 : Pulse generation (Engine idling)
NE+ –NE– : Pulse generation (Engine idling)
G+ –G– : Pulse generation (Engine idling)
W–E1 : **0**–**3.0** volts (Check engine warning light lights up)
9.0–**14.0** volts (Except check engine warning light lights up)
GIND–E1 : **0**–**3.0** volts (Glow indicator light lights up)
9.0–**14.0** volts (Except glow indicator light lights up)
TC–E1 : **9.0**–**14.0** volts (Ignition SW at **ON** position)
SIL–E1 : Pulse generation (Connect hand–held tester to DLC3)

: Parts Location

Code	See Page	Code	See Page	Code	See Page
A3	44 (RHD 1CD–FTV)	F14	44 (RHD 1CD–FTV)	S6	45 (RHD 1CD–FTV)
A9	44 (RHD 1CD–FTV)	F19	47 (RHD)	S7	45 (RHD 1CD–FTV)
A12 A	46 (RHD)	G1	44 (RHD 1CD–FTV)	S16 A	49 (RHD)
A16	46 (RHD)	G2	44 (RHD 1CD–FTV)	S17 B	49 (RHD)
C1	44 (RHD 1CD–FTV)	I5	45 (RHD 1CD–FTV)	S32 A	49 (RHD)
C5	44 (RHD 1CD–FTV)	I6	45 (RHD 1CD–FTV)	S33 B	49 (RHD)
C8 A	46 (RHD)	I7	45 (RHD 1CD–FTV)	S34 A	49 (RHD)
D1	44 (RHD 1CD–FTV)	I8	45 (RHD 1CD–FTV)	S35 B	49 (RHD)
D6	47 (RHD)	I9	45 (RHD 1CD–FTV)	S38	49 (RHD)
E2	44 (RHD 1CD–FTV)	I11	47 (RHD)	T2	45 (RHD 1CD–FTV)
E3 A	44 (RHD 1CD–FTV)	J3	48 (RHD)	T4	45 (RHD 1CD–FTV)
E4 B	44 (RHD 1CD–FTV)	J16	48 (RHD)	T8	49 (RHD)
E7 A	47 (RHD)	J20	48 (RHD)	V1	45 (RHD 1CD–FTV)
E8 B	47 (RHD)	J21	48 (RHD)	V3	45 (RHD 1CD–FTV)
E10 C	47 (RHD)	J26 A	48 (RHD)	W1	45 (RHD 1CD–FTV)
E11 D	47 (RHD)	J27 B	48 (RHD)		
F13	44 (RHD 1CD–FTV)	R4	48 (RHD)		

: Relay Blocks

Code	See Page	Relay Blocks (Relay Block Location)
2	22	Engine Room R/B (Front Side of Left Suspension Tower)
7	23	Engine Room R/B No.2 (Front Side of Left Suspension Tower)

: Junction Block and Wire Harness Connector

Code	See Page	Junction Block and Wire Harness (Connector Location)
IA	24 (RHD)	Instrument Panel J/B and Instrument Panel Wire (Left Side of Grove Box)
IB		
IC	24 (RHD)	Instrument Panel J/B and Engine Wire (Left Side of Grove Box)
IL	25 (RHD)	Instrument Panel J/B and Engine Room Main Wire (Left Side of Grove Box)
3D	28 (RHD)	Center J/B and Instrument Panel Wire (Lower Finish Panel)
3F		
3H		
3I		
3J		
4B	30 (RHD)	Center J/B No.2 and Instrument Panel Wire (Near the Steering Column)
4C		

: Connector Joining Wire Harness and Wire Harness

Code	See Page	Joining Wire Harness and Wire Harness (Connector Location)
EA1	64 (RHD 1CD–FTV)	Engine Wire and Engine Room Main Wire (Near The Engine Room R/B)
EB1	64 (RHD 1CD–FTV)	Engine Wire and Engine No.6 Wire (Near the Starter Motor)
EC1	64 (RHD 1CD–FTV)	Engine Wire and Engine No.4 Wire (Near the Starter Motor)
ID2	66 (RHD)	Instrument Panel Wire and Engine Room Main Wire (Upper Part of Front Body Pillar LH)
IL3	66 (RHD)	Engine Wire and Instrument Panel Wire (Left Kick Panel)

: Ground Points

Code	See Page	Ground Points Location
EA	64 (RHD 1CD–FTV)	Left Radiator Side Support
EE	64 (RHD 1CD–FTV)	Near the Starter
IC	66 (RHD)	Right Kick Panel

: **Splice Points**

Code	See Page	Wire Harness with Splice Points	Code	See Page	Wire Harness with Splice Points
E17	64 (RHD 1CD–FTV)	Engine Room Main Wire	E21	64 (RHD 1CD–FTV)	Engine Wire
E19	64 (RHD 1CD–FTV)	Engine Wire	E22		
E20			I4	68 (RHD)	

ECT and A/T Indicator (LHD)

System Outline

Previous automatic transaxle have selected each gear shift using mechanically controlled throttle hydraulic pressure, governor hydraulic pressure and lock–up hydraulic pressure. The ECT, however, electrically controls the line pressure, throttle pressure, lock–up pressure and accumulator pressure etc. through the solenoid valve. The ECT is a system which precisely controls gear shift timing and lock–up timing in response to the vehicle's driving conditions and the engine condition detected by various sensors. It makes smooth driving possible by shift selection for each gear which is the most appropriate to the driving conditions at that time, and by preventing downing, squat and gear shift shock when starting off.

1. Gear Shift Operation

When driving, the engine warm up condition is input as a signal to TERMINAL THW of the engine and ECT ECU from the water temp. sensor and the vehicle speed signal from speed sensor is input to TERMINAL SPD of the engine and ECT ECU. At the same time, the throttle valve opening signal from the throttle position sensor is input to TERMINAL VTA of the engine and ECT ECU as throttle angle signal.
Based on these signals, the engine and ECT ECU selects the best shift position for the driving conditions and sends current to the ECT solenoid.

2. Lock–up Operation

When each signal makes engine and ECT ECU recognize that LOCK–UP condition is satisfied, the current flows from engine and ECT ECU TERMINAL DSL to ECT solenoid TERMINAL 3. At the same time, the current flows engine and ECT ECU TERMINAL SL1+ to ECT solenoid TERMINAL 5 and from TERMINAL 10 to engine and ECT ECU TERMINAL SL1–. This works LOCK–UP solenoid to perform LOCK–UP operation.

3. Stop Light SW Circuit

If the brake pedal is depressed (Stop light SW on) when driving in lock–up condition, a signal is input to TERMINAL STP of the engine and ECT ECU. The engine and ECT ECU operates and cuts the current to the solenoid to release lock–up.

4. Overdrive Circuit

* O/D main SW on
  When the O/D main SW is turned on, a signal is input to TERMINAL ODMS of the engine and ECT ECU and engine and ECT ECU operation causes gear shift when the conditions for overdrive are met.
* O/D main SW off
  When the O/D main SW is turned off, a signal is input into TERMINAL ODMS of the engine and ECT ECU, and turns on the O/D off indicator light. This activates the ECU, and the transmission system is controlled not to shift to overdrive.

Service Hints

E7 (A) Engine and ECT ECU

BATT–E1 : Always **9.0**–**14.0** volts
+B–E1 : **9.0**–**14.0** volts (Ignition SW at **ON** position)
MREL–E1 : **9.0**–**14.0** volts (Ignition SW at **ON** position)

A2 A/T Indicator light SW

3–1 : Closed with shift lever in **P** position
3–2 : Closed with shift lever in **R** position
3–5 : Closed with shift lever in **N** position
3–7 : Closed with shift lever in **D** position
3–8 : Closed with shift lever in **L** position
3–4 : Closed with shift lever in **2** position

: Parts Location

Code	See Page	Code	See Page	Code	See Page
A2	32 (LHD 1AZ–FE)	J6 B	38 (LHD)	S16 A	39 (LHD)
C4	32 (LHD 1AZ–FE)	J11 A	38 (LHD)	S17 B	39 (LHD)
C8 A	36 (LHD)	J12 B	38 (LHD)	S17 A	39 (LHD)
C9 B	36 (LHD)	J13 A	38 (LHD)	S20 A	39 (LHD)
D6	37 (LHD)	J14 B	38 (LHD)	S21 B	39 (LHD)
E1	32 (LHD 1AZ–FE)	J16	38 (LHD)	S22 B	39 (LHD)
E7 A	37 (LHD)	J17	38 (LHD)	S38	39 (LHD)
E8 B	37 (LHD)	J19	38 (LHD)	S43 A	39 (LHD)
E9 C	37 (LHD)	J23 A	38 (LHD)	S44 B	39 (LHD)
E10 D	37 (LHD)	J24 B	38 (LHD)	T1	33 (LHD 1AZ–FE)
E11 E	37 (LHD)	K2	38 (LHD)	T3	33 (LHD 1AZ–FE)
F19	37 (LHD)	O2	38 (LHD)	W1	33 (LHD 1AZ–FE)
J5 A	38 (LHD)	S1	33 (LHD 1AZ–FE)		

: Relay Blocks

Code	See Page	Relay Blocks (Relay Block Location)
2	22	Engine Room R/B (Front Side of Left Suspension Tower)
7	23	Engine Room R/B No.2 (Front Side of Left Suspension Tower)

: Junction Block and Wire Harness Connector

Code	See Page	Junction Block and Wire Harness (Connector Location)
IA	24 (LHD)	Instrument Panel J/B and Instrument Panel Wire (Lower Finish Panel)
IB		
IC		
IL	25 (LHD)	Instrument Panel J/B and Engine Room Main Wire (Lower Finish Panel)
3D	28 (LHD)	Center J/B and Instrument Panel Wire (Right Side of Grove Box)
3F		
3H		

: Connector Joining Wire Harness and Wire Harness

Code	See Page	Joining Wire Harness and Wire Harness (Connector Location)
EA1	52 (LHD 1AZ–FE)	Engine Wire and Engine Room Main Wire (Near The Engine Room R/B)
ID2	56 (LHD)	Instrument Panel Wire and Engine Room Main Wire (Upper Part of Front Body Pillar LH)
IH1	58 (LHD)	Instrument Panel Wire and Engine Room Main Wire (Upper Part of Front Body Pillar RH)
IL2	58 (LHD)	Engine Wire and Instrument Panel Wire (Right Kick Panel)
IL3		

: Ground Points

Code	See Page	Ground Points Location
EA	52 (LHD 1AZ–FE)	Left Radiator Side Support
EC	52 (LHD 1AZ–FE)	Intake Side of Cylinder Block
ED	52 (LHD 1AZ–FE)	Left Side of Cylinder Block
IC	56 (LHD)	Right Kick Panel

: Splice Points

Code	See Page	Wire Harness with Splice Points	Code	See Page	Wire Harness with Splice Points
E2	52 (LHD 1AZ–FE)	Engine Wire	I3	58 (LHD)	Engine Wire

ECT and A/T Indicator (RHD)

System Outline

Previous automatic transaxle have selected each gear shift using mechanically controlled throttle hydraulic pressure, governor hydraulic pressure and lock–up hydraulic pressure. The ECT, however, electrically controls the line pressure, throttle pressure, lock–up pressure and accumulator pressure etc. through the solenoid valve. The ECT is a system which precisely controls gear shift timing and lock–up timing in response to the vehicle's driving conditions and the engine condition detected by various sensors. It makes smooth driving possible by shift selection for each gear which is the most appropriate to the driving conditions at that time, and by preventing downing, squat and gear shift shock when starting off.

1. Gear Shift Operation

When driving, the engine warm up condition is input as a signal to TERMINAL THW of the engine and ECT ECU from the water temp. sensor and the vehicle speed signal from speed sensor is input to TERMINAL SPD of the engine and ECT ECU. At the same time, the throttle valve opening signal from the throttle position sensor is input to TERMINAL VTA of the engine and ECT ECU as throttle angle signal.
Based on these signals, the engine and ECT ECU selects the best shift position for the driving conditions and sends current to the ECT solenoid.

2. Lock–up Operation

When each signal makes engine and ECT ECU recognize that LOCK–UP condition is satisfied, the current flows from engine and ECT ECU TERMINAL DSL to ECT solenoid TERMINAL 3. At the same time, the current flows engine and ECT ECU TERMINAL SL1+ to ECT solenoid TERMINAL 5 and from TERMINAL 10 to engine and ECT ECU TERMINAL SL1–. This works LOCK–UP solenoid to perform LOCK–UP operation.

3. Stop Light SW Circuit

If the brake pedal is depressed (Stop light SW on) when driving in lock–up condition, a signal is input to TERMINAL STP of the engine and ECT ECU. The engine and ECT ECU operates and cuts the current to the solenoid to release lock–up.

4. Overdrive Circuit

* O/D main SW on
  When the O/D main SW is turned on, a signal is input to TERMINAL ODMS of the engine and ECT ECU and engine and ECT ECU operation causes gear shift when the conditions for overdrive are met.
* O/D main SW off
  When the O/D main SW is turned off, a signal is input into TERMINAL ODMS of the engine and ECT ECU, and turns on the O/D off indicator light. This activates the ECU, and the transmission system is controlled not to shift to overdrive.

Service Hints

E7 (A) Engine and ECT ECU

BATT–E1 : Always **9.0**–**14.0** volts
+B–E1 : **9.0**–**14.0** volts (Ignition SW at **ON** position)
MREL–E1 : **9.0**–**14.0** volts (Ignition SW at **ON** position)

A2 A/T Indicator light SW

3–1 : Closed with shift lever in **P** position
3–2 : Closed with shift lever in **R** position
3–5 : Closed with shift lever in **N** position
3–7 : Closed with shift lever in **D** position
3–8 : Closed with shift lever in **L** position
3–4 : Closed with shift lever in **2** position

○ : **Parts Location**

Code	See Page	Code	See Page	Code	See Page
A2	42 (RHD 1AZ–FE)	E11 E	47 (RHD)	S1	43 (RHD 1AZ–FE)
C4	42 (RHD 1AZ–FE)	F19	47 (RHD)	S16 A	49 (RHD)
C8 A	46 (RHD)	J3	48 (RHD)	S17 B	49 (RHD)
C9 B	46 (RHD)	J16	48 (RHD)	S32 A	49 (RHD)
D6	47 (RHD)	J18	48 (RHD)	S33 B	49 (RHD)
E1	42 (RHD 1AZ–FE)	J19	48 (RHD)	S38	49 (RHD)
E7 A	47 (RHD)	J25	48 (RHD)	T1	43 (RHD 1AZ–FE)
E8 B	47 (RHD)	J26 A	48 (RHD)	T3	43 (RHD 1AZ–FE)
E9 C	47 (RHD)	J27 B	48 (RHD)	W1	43 (RHD 1AZ–FE)
E10 D	47 (RHD)	O2	48 (RHD)		

: Relay Blocks

Code	See Page	Relay Blocks (Relay Block Location)
2	22	Engine Room R/B (Front Side of Left Suspension Tower)
7	23	Engine Room R/B No.2 (Front Side of Left Suspension Tower)

: Junction Block and Wire Harness Connector

Code	See Page	Junction Block and Wire Harness (Connector Location)
IA	24 (RHD)	Instrument Panel J/B and Instrument Panel Wire (Left Side of Grove Box)
IB		
IC	24 (RHD)	Instrument Panel J/B and Engine Wire (Left Side of Grove Box)
IL	25 (RHD)	Instrument Panel J/B and Engine Room Main Wire (Left Side of Grove Box)
3A	28 (RHD)	Center J/B and Instrument Panel Wire (Lower Finish Panel)
3D		
3F		
3H		
3I		
3J		
3K		

: Connector Joining Wire Harness and Wire Harness

Code	See Page	Joining Wire Harness and Wire Harness (Connector Location)
EA1	62 (RHD 1AZ–FE)	Engine Wire and Engine Room Main Wire (Near The Engine Room R/B)
ID2	66 (RHD)	Instrument Panel Wire and Engine Room Main Wire (Upper Part of Front Body Pillar LH)
IH1	68 (RHD)	Instrument Panel Wire and Engine Room Main Wire (Upper Part of Front Body Pillar RH)
IL1	66 (RHD)	Engine Wire and Instrument Panel Wire (Left Kick Panel)
IL3		

: Ground Points

Code	See Page	Ground Points Location
EA	62 (RHD 1AZ–FE)	Left Radiator Side Support
EC	62 (RHD 1AZ–FE)	Intake Side of Cylinder Block
ED	62 (RHD 1AZ–FE)	Left Side of Cylinder Block
IC	66 (RHD)	Right Kick Panel

: Splice Points

Code	See Page	Wire Harness with Splice Points	Code	See Page	Wire Harness with Splice Points
E13	62 (RHD 1AZ–FE)	Engine Wire	I4	68 (RHD)	Engine Wire

Service Hints

EFI Relay

5–3 : Closed with the ignition SW at **ON** position

U1 Unlock Warning SW

2–1 : Closed with the ignition key in cylinder

: Parts Location

Code		See Page	Code		See Page	Code		See Page
C8	A	36 (LHD)	E11	E	37 (LHD)	J17		38 (LHD)
C9	B	36 (LHD)	I13		37 (LHD)	J19		38 (LHD)
E7	A	37 (LHD)	J13	A	38 (LHD)	S20	A	39 (LHD)
E8	B	37 (LHD)	J14	B	38 (LHD)	S21	B	39 (LHD)
E10	D	37 (LHD)	J16		38 (LHD)	U1		39 (LHD)

: Relay Blocks

Code	See Page	Relay Blocks (Relay Block Location)
2	22	Engine Room R/B (Front Side of Left Suspension Tower)

: Junction Block and Wire Harness Connector

Code	See Page	Junction Block and Wire Harness (Connector Location)
IA	24 (LHD)	Instrument Panel J/B and Instrument Panel Wire (Lower Finish Panel)
3F	28 (LHD)	Center J/B and Instrument Panel Wire (Right Side of Grove Box)
3H		
3K		

: Connector Joining Wire Harness and Wire Harness

Code	See Page	Joining Wire Harness and Wire Harness (Connector Location)
EA1	52 (LHD 1AZ–FE)	Engine Wire and Engine Room Main Wire (Near The Engine Room R/B)
ID2	56 (LHD)	Instrument Panel Wire and Engine Room Main Wire (Upper Part of Front Body Pillar LH)
IL3	58 (LHD)	Engine Wire and Instrument Panel Wire (Right Kick Panel)

: Ground Points

Code	See Page	Ground Points Location
EA	52 (LHD 1AZ–FE)	Left Radiator Side Support
EC	52 (LHD 1AZ–FE)	Intake Side of Cylinder Block
ED	52 (LHD 1AZ–FE)	Left Side of Cylinder Block
IC	56 (LHD)	Right Kick Panel

: Splice Points

Code	See Page	Wire Harness with Splice Points	Code	See Page	Wire Harness with Splice Points
E2	52 (LHD 1AZ–FE)	Engine Wire	E3	52 (LHD 1AZ–FE)	Engine Wire

Engine Immobiliser System (LHD 1CD–FTV)

Service Hints

EFI Relay

5–3 : Closed with the ignition SW at **ON** position

U1 Unlock Warning SW

2–1 : Closed with the ignition key in cylinder

: Parts Location

Code		See Page	Code		See Page	Code		See Page
C8	A	36 (LHD)	I13		37 (LHD)	S20	A	39 (LHD)
C9	B	36 (LHD)	J13	A	38 (LHD)	S21	B	39 (LHD)
D6		37 (LHD)	J14	B	38 (LHD)	S24	A	39 (LHD)
D8		40 (LHD)	J16		38 (LHD)	S25	B	39 (LHD)
E7	A	37 (LHD)	J17		38 (LHD)	T8		39 (LHD)
E11	D	37 (LHD)	J21		38 (LHD)	U1		39 (LHD)

: Relay Blocks

Code	See Page	Relay Blocks (Relay Block Location)
2	22	Engine Room R/B (Front Side of Left Suspension Tower)

: Junction Block and Wire Harness Connector

Code	See Page	Junction Block and Wire Harness (Connector Location)
IA	24 (LHD)	Instrument Panel J/B and Instrument Panel Wire (Lower Finish Panel)
IB		
IL	25 (LHD)	Instrument Panel J/B and Engine Room Main Wire (Lower Finish Panel)
3D	28 (LHD)	Center J/B and Instrument Panel Wire (Right Side of Grove Box)
3E		
3F		
3H		
3J		
3K		

: Connector Joining Wire Harness and Wire Harness

Code	See Page	Joining Wire Harness and Wire Harness (Connector Location)
EA1	54 (LHD 1CD–FTV)	Engine Wire and Engine Room Main Wire (Near The Engine Room R/B)
IC1	56 (LHD)	Instrument Panel Wire and Floor Wire (Upper Part of Front Body Pillar LH)
ID2	56 (LHD)	Instrument Panel Wire and Engine Room Main Wire (Upper Part of Front Body Pillar LH)
IL3	58 (LHD)	Engine Wire and Instrument Panel Wire (Right Kick Panel)

: Ground Points

Code	See Page	Ground Points Location
EA	54 (LHD 1CD–FTV)	Left Radiator Side Support
EE	54 (LHD 1CD–FTV)	Near the Starter
IC	56 (LHD)	Right Kick Panel

Service Hints

EFI Relay

5–3 : Closed with the ignition SW at **ON** position

U1 Unlock Warning SW

2–1 : Closed with the ignition key in cylinder

: Parts Location

Code		See Page	Code		See Page	Code		See Page
C8	A	46 (RHD)	E11	E	47 (RHD)	J26		48 (RHD)
C9	B	46 (RHD)	I13		47 (RHD)	S32	A	49 (RHD)
E7	A	47 (RHD)	J3		48 (RHD)	S33	B	49 (RHD)
E8	B	47 (RHD)	J16		48 (RHD)	U1		49 (RHD)
E10	D	47 (RHD)	J19		48 (RHD)			

: Relay Blocks

Code	See Page	Relay Blocks (Relay Block Location)
2	22	Engine Room R/B (Front Side of Left Suspension Tower)

: Junction Block and Wire Harness Connector

Code	See Page	Junction Block and Wire Harness (Connector Location)
IA	24 (RHD)	Instrument Panel J/B and Instrument Panel Wire (Left Side of Grove Box)
3D	28 (RHD)	Center J/B and Instrument Panel Wire (Lower Finish Panel)
3F		
3H		
3K		

: Connector Joining Wire Harness and Wire Harness

Code	See Page	Joining Wire Harness and Wire Harness (Connector Location)
EA1	62 (RHD 1AZ–FE)	Engine Wire and Engine Room Main Wire (Near The Engine Room R/B)
ID2	66 (RHD)	Instrument Panel Wire and Engine Room Main Wire (Upper Part of Front Body Pillar LH)
IL3	66 (RHD)	Engine Wire and Instrument Panel Wire (Left Kick Panel)

: Ground Points

Code	See Page	Ground Points Location
EA	62 (RHD 1AZ–FE)	Left Radiator Side Support
EC	62 (RHD 1AZ–FE)	Intake Side of Cylinder Block
ED	62 (RHD 1AZ–FE)	Left Side of Cylinder Block
IC	66 (RHD)	Right Kick Panel

: Splice Points

Code	See Page	Wire Harness with Splice Points	Code	See Page	Wire Harness with Splice Points
E13	62 (RHD 1AZ–FE)	Engine Wire			

Engine Immobiliser System (RHD 1CD–FTV)

Service Hints

EFI Relay

5–3 : Closed with the ignition SW at **ON** position

U1 Unlock Warning SW

2–1 : Closed with the ignition key in cylinder

: Parts Location

Code		See Page	Code		See Page	Code		See Page
C8	A	46 (RHD)	I13		47 (RHD)	S31	B	49 (RHD)
C9	B	46 (RHD)	J3		48 (RHD)	S32	A	49 (RHD)
D6		47 (RHD)	J16		48 (RHD)	S33	B	49 (RHD)
D9		50 (RHD)	J21		48 (RHD)	T8		49 (RHD)
E7	A	47 (RHD)	J26		48 (RHD)	U1		49 (RHD)
E11	D	47 (RHD)	S30	A	49 (RHD)			

: Relay Blocks

Code	See Page	Relay Blocks (Relay Block Location)
2	22	Engine Room R/B (Front Side of Left Suspension Tower)

: Junction Block and Wire Harness Connector

Code	See Page	Junction Block and Wire Harness (Connector Location)
IA	24 (RHD)	Instrument Panel J/B and Instrument Panel Wire (Left Side of Grove Box)
IB		
IL	25 (RHD)	Instrument Panel J/B and Engine Room Main Wire (Left Side of Grove Box)
3A	28 (RHD)	Center J/B and Instrument Panel Wire (Lower Finish Panel)
3E	28 (RHD)	Center J/B and Floor No.2 Wire (Lower Finish Panel)
3F	28 (RHD)	Center J/B and Instrument Panel Wire (Lower Finish Panel)
3H		
3K		

: Connector Joining Wire Harness and Wire Harness

Code	See Page	Joining Wire Harness and Wire Harness (Connector Location)
EA1	64 (RHD 1CD–FTV)	Engine Wire and Engine Room Main Wire (Near The Engine Room R/B)
ID2	66 (RHD)	Instrument Panel Wire and Engine Room Main Wire (Upper Part of Front Body Pillar LH)
IL3	66 (RHD)	Engine Wire and Instrument Panel Wire (Left Kick Panel)

: Ground Points

Code	See Page	Ground Points Location
EA	64 (RHD 1CD–FTV)	Left Radiator Side Support
EE	64 (RHD 1CD–FTV)	Near the Starter
IC	66 (RHD)	Right Kick Panel

Service Hints

A12 (A), A13 (B), A14 (C) A/C Amplifier

(A) 1–Ground : Approx. **12** volts with the ignition SW at **ON** position

H15 Heater Control Panel

12–Ground : Approx. **12** volts with the ignition SW at **ON** position
1–Ground : Always approx. **12** volts
5–Ground : Always continuity

: Parts Location

Code	See Page	Code	See Page	Code	See Page
A1	32 (LHD 1AZ–FE)	B6	36 (LHD)	J6 B	38 (LHD)
	34 (LHD 1CD–FTV)	B7	36 (LHD)	J8	38 (LHD)
A12 A	36 (LHD)	B8	36 (LHD)	J15	38 (LHD)
A13 B	36 (LHD)	B9 A	36 (LHD)	J16	38 (LHD)
A14 C	36 (LHD)	B9 B	36 (LHD)	P2	33 (LHD 1AZ–FE)
A15	36 (LHD)	E7 A	37 (LHD)		35 (LHD 1CD–FTV)
A17	36 (LHD)	E8 B	37 (LHD)	P6	38 (LHD)
A18	36 (LHD)	E9 C	37 (LHD)	S16 A	39 (LHD)
A19	36 (LHD)	H15	37 (LHD)	S17 B	39 (LHD)
B5 A	36 (LHD)	J5	38 (LHD)	W2	35 (LHD 1CD–FTV)
B5 B	36 (LHD)	J5 A	38 (LHD)		

: Relay Blocks

Code	See Page	Relay Blocks (Relay Block Location)
2	22	Engine Room R/B (Front Side of Left Suspension Tower)
7	23	Engine Room R/B No.2 (Front Side of Left Suspension Tower)

: Junction Block and Wire Harness Connector

Code	See Page	Junction Block and Wire Harness (Connector Location)
IA	24 (LHD)	Instrument Panel J/B and Instrument Panel Wire (Lower Finish Panel)
IB		
IC		
IF		
IL	25 (LHD)	Instrument Panel J/B and Engine Room Main Wire (Lower Finish Panel)
IP		
3F	28 (LHD)	Center J/B and Instrument Panel Wire (Right Side of Grove Box)
3K		

: Connector Joining Wire Harness and Wire Harness

Code	See Page	Joining Wire Harness and Wire Harness (Connector Location)
IF1	56 (LHD)	Instrument Panel Wire and Cowl No.2 Wire (Behind the Combination Meter)
IH2	58 (LHD)	Instrument Panel Wire and Engine Room Main Wire (Upper Part of Front Body Pillar RH)
II3	58 (LHD)	Instrument Panel Wire and Floor No.2 Wire (Upper Part of Front Body Pillar RH)
IL1	58 (LHD)	Engine Wire and Instrument Panel Wire (Right Kick Panel)
IL3		
BD1	60 (LHD)	Roof No.2 Wire and Floor No.2 Wire (Right Quarter Panel)

Front Air Conditioner (LHD)

: Ground Points

Code	See Page	Ground Points Location
EA	52 (LHD 1AZ–FE)	Left Radiator Side Support
	54 (LHD 1CD–FTV)	
EB	52 (LHD 1AZ–FE)	Right Radiator Side Support
	54 (LHD 1CD–FTV)	
IC	56 (LHD)	Right Kick Panel
BD	60 (LHD)	Front Side of the Right Quarter Panel

: Splice Points

Code	See Page	Wire Harness with Splice Points	Code	See Page	Wire Harness with Splice Points
E7	52 (LHD 1AZ–FE)	Engine Room Main Wire	I1	58 (LHD)	Cowl No.2 Wire
	54 (LHD 1CD–FTV)		I2		

Front Air Conditioner (RHD)

Service Hints

A12 (A), A13 (B), A14 (C) A/C Amplifier

(A) 1–Ground : Approx. **12** volts with the ignition SW at **ON** position

H15 Heater Control Panel

12–Ground : Approx. **12** volts with the ignition SW at **ON** position

1–Ground : Always approx. **12** volts

5–Ground : Always continuity

: Parts Location

Code	See Page	Code	See Page	Code	See Page
A1	42 (RHD 1AZ–FE)	B5 B	46 (RHD)	J8	48 (RHD)
	44 (RHD 1CD–FTV)	B6	46 (RHD)	J16	48 (RHD)
A12 A	46 (RHD)	B7	46 (RHD)	J26 A	48 (RHD)
A13 B	46 (RHD)	B8	46 (RHD)	J27 B	48 (RHD)
A14 C	46 (RHD)	B9 B	46 (RHD)	P2	43 (RHD 1AZ–FE)
A15	46 (RHD)	B9 A	46 (RHD)		45 (RHD 1CD–FTV)
A17	46 (RHD)	E7 A	47 (RHD)	S32 A	49 (RHD)
A18	46 (RHD)	E8 B	47 (RHD)	S33 B	49 (RHD)
A19	46 (RHD)	E9 C	47 (RHD)	W2	45 (RHD 1CD–FTV)
A23	46 (RHD)	H15	47 (RHD)		
B5 A	46 (RHD)	J3	48 (RHD)		

: Relay Blocks

Code	See Page	Relay Blocks (Relay Block Location)
2	22	Engine Room R/B (Front Side of Left Suspension Tower)
7	23	Engine Room R/B No.2 (Front Side of Left Suspension Tower)

: Junction Block and Wire Harness Connector

Code	See Page	Junction Block and Wire Harness (Connector Location)
IA	24 (RHD)	Instrument Panel J/B and Instrument Panel Wire (Left Side of Grove Box)
IB		
IC	24 (RHD)	Instrument Panel J/B and Engine Wire (Left Side of Grove Box)
IF	24 (RHD)	Instrument Panel J/B and Instrument Panel Wire (Left Side of Grove Box)
IL	25 (RHD)	Instrument Panel J/B and Engine Room Main Wire (Left Side of Grove Box)
IP		
3F	28 (RHD)	Center J/B and Instrument Panel Wire (Lower Finish Panel)
3J		
3K		
4B	30 (RHD)	Center J/B No.2 and Instrument Panel Wire (Near the Steering Column)
4C		
4D		

: Connector Joining Wire Harness and Wire Harness

Code	See Page	Joining Wire Harness and Wire Harness (Connector Location)
EA1	62 (RHD 1AZ–FE)	Engine Wire and Engine Room Main Wire (Near The Engine Room R/B)
	64 (RHD 1CD–FTV)	
IF1	68 (RHD)	Instrument Panel Wire and Cowl No.2 Wire (Behind the Combination Meter)
IH2	68 (RHD)	Instrument Panel Wire and Engine Room Main Wire (Upper Part of Front Body Pillar RH)
II3	68 (RHD)	Instrument Panel Wire and Floor No.2 Wire (Upper Part of Front Body Pillar RH)
IL3	66 (RHD)	Engine Wire and Instrument Panel Wire (Left Kick Panel)
BD1	70 (RHD)	Roof No.2 Wire and Floor No.2 Wire (Right Quarter Panel)

: Ground Points

Code	See Page	Ground Points Location
EA	62 (RHD 1AZ–FE)	Left Radiator Side Support
	64 (RHD 1CD–FTV)	
IC	66 (RHD)	Right Kick Panel
BD	70 (RHD)	Front Side of the Right Quarter Panel

: Splice Points

Code	See Page	Wire Harness with Splice Points	Code	See Page	Wire Harness with Splice Points
E17	62 (RHD 1AZ–FE)	Engine Room Main Wire	I5	68 (RHD)	Cowl No.2 Wire
	64 (RHD 1CD–FTV)		I6		

Service Hints

F15 Front Fog Light Relay

5–3 : Closed with the light control SW at **TAIL** or **HEAD** position and fog light SW at **ON** position

: Parts Location

Code	See Page	Code	See Page	Code	See Page
B10 A	36 (LHD)	F4	34 (LHD 1CD–FTV)	S14 A	39 (LHD)
C8	36 (LHD)	F15	37 (LHD)	S15 B	39 (LHD)
C12	36 (LHD)	J8	38 (LHD)	S22 A	39 (LHD)
F3	32 (LHD 1AZ–FE)	J15	38 (LHD)	S23 B	39 (LHD)
	34 (LHD 1CD–FTV)	J23 A	38 (LHD)		
F4	32 (LHD 1AZ–FE)	J24 B	38 (LHD)		

: Relay Blocks

Code	See Page	Relay Blocks (Relay Block Location)
2	22	Engine Room R/B (Front Side of Left Suspension Tower)

: Junction Block and Wire Harness Connector

Code	See Page	Junction Block and Wire Harness (Connector Location)
IA	24 (LHD)	Instrument Panel J/B and Instrument Panel Wire (Lower Finish Panel)
IB		
IL	25 (LHD)	Instrument Panel J/B and Engine Room Main Wire (Lower Finish Panel)
3F	28 (LHD)	Center J/B and Instrument Panel Wire (Right Side of Grove Box)
3H		
3I		
3K		

: Connector Joining Wire Harness and Wire Harness

Code	See Page	Joining Wire Harness and Wire Harness (Connector Location)
EE1	52 (LHD 1AZ–FE)	Engine Room Main Wire and Engine Room No.2 Wire (Under the Headlight LH)
EF1	52 (LHD 1AZ–FE)	Engine Room Main Wire and Engine Room No.2 Wire (Under the Headlight RH)
IC3	56 (LHD)	Instrument Panel Wire and Floor Wire (Upper Part of Front Body Pillar LH)

: Ground Points

Code	See Page	Ground Points Location
EA	52 (LHD 1AZ–FE)	Left Radiator Side Support
	54 (LHD 1CD–FTV)	
EB	52 (LHD 1AZ–FE)	Right Radiator Side Support
	54 (LHD 1CD–FTV)	
IC	56 (LHD)	Right Kick Panel

Service Hints

F15 Front Fog Light Relay

5–3 : Closed with the light control SW at **TAIL** or **HEAD** position and fog light SW at **ON** position

: Parts Location

Code		See Page	Code	See Page	Code		See Page
B10	A	46 (RHD)	F4	42 (RHD 1AZ–FE)	J23	A	48 (RHD)
C8		46 (RHD)	F4	44 (RHD 1CD–FTV)	J24	B	48 (RHD)
C12	A	46 (RHD)	F15	47 (RHD)	S32	A	49 (RHD)
	B	46 (RHD)	J3	48 (RHD)	S33	B	49 (RHD)
F3		42 (RHD 1AZ–FE)	J15	48 (RHD)			
F3		44 (RHD 1CD–FTV)	J16	48 (RHD)			

: Relay Blocks

Code	See Page	Relay Blocks (Relay Block Location)
2	22	Engine Room R/B (Front Side of Left Suspension Tower)

: Junction Block and Wire Harness Connector

Code	See Page	Junction Block and Wire Harness (Connector Location)
IA	24 (RHD)	Instrument Panel J/B and Instrument Panel Wire (Left Side of Grove Box)
IB		
IL	25 (RHD)	Instrument Panel J/B and Engine Room Main Wire (Left Side of Grove Box)
3F	28 (RHD)	Center J/B and Instrument Panel Wire (Lower Finish Panel)
3H		
3K		

: Connector Joining Wire Harness and Wire Harness

Code	See Page	Joining Wire Harness and Wire Harness (Connector Location)
EE1	62 (RHD 1AZ–FE)	Engine Room Main Wire and Engine Room No.2 Wire (Under the Headlight LH)
EF1	62 (RHD 1AZ–FE)	Engine Room Main Wire and Engine Room No.2 Wire (Under the Headlight RH)
IC3	66 (RHD)	Instrument Panel Wire and Floor Wire (Upper Part of Front Body Pillar LH)

: Ground Points

Code	See Page	Ground Points Location
EB	62 (RHD 1AZ–FE)	Right Radiator Side Support
	64 (RHD 1CD–FTV)	
IC	66 (RHD)	Right Kick Panel

Service Hints

FUEL HTR Relay

5–3 : Closed with the ignition SW at **ON** or **ST** position

: Parts Location

Code	See Page	Code	See Page	Code	See Page
F12	34 (LHD 1CD–FTV)				

: Relay Blocks

Code	See Page	Relay Blocks (Relay Block Location)
2	22	Engine Room R/B (Front Side of Left Suspension Tower)

: Junction Block and Wire Harness Connector

Code	See Page	Junction Block and Wire Harness (Connector Location)
IL	25 (LHD)	Instrument Panel J/B and Engine Room Main Wire (Lower Finish Panel)

: Connector Joining Wire Harness and Wire Harness

Code	See Page	Joining Wire Harness and Wire Harness (Connector Location)
EA1	52 (LHD 1AZ–FE)	Engine Wire and Engine Room Main Wire (Near The Engine Room R/B)
	54 (LHD 1CD–FTV)	

: Ground Points

Code	See Page	Ground Points Location
EA	52 (LHD 1AZ–FE)	Left Radiator Side Support
	54 (LHD 1CD–FTV)	
EE	54 (LHD 1CD–FTV)	Near the Starter

System Outline

When the ignition SW is on, the current is sent from WIPER fuse to front wiper motor TERMINAL +B and washer motor TERMINAL B.

1. Low Speed Operation

When the front wiper SW is turned to the LO position, the current is sent from front wiper and washer SW TERMINAL +B to TERMINAL +1, and from wiper motor TERMINAL +1 to TERMINAL EW, GROUND. Then the front wiper motor is operated at a low speed.

2. High Speed Operation

When the front wiper SW is turned to the HI position, the current is sent from front wiper and washer SW TERMINAL +B to TERMINAL +2, and from wiper motor TERMINAL +2 to TERMINAL EW, GROUND. Then the front wiper motor is operated at high speed.

3. Intermittent Operation

When the front wiper SW is turned to the INT position, the current is sent from front wiper and washer SW TERMINAL +B to TERMINAL EW, GROUND. This current operates the intermittent circuit an the current is sent from front wiper and washer SW TERMINAL +B to TERMINAL +1, and from front wiper motor TERMINAL +1 to TERMINAL EW, GROUND to operate the wiper. The intermittent operation is controlled by the charge/discharge function of the condenser, which is built in the relay.

4. Mist Operation

When the front wiper SW is turned to the MIST position, the current is sent from front wiper and washer SW TERMINAL +B to TERMINAL +1, and from front wiper motor TERMINAL +1 to TERMINAL EW, GROUND. Then the front wiper motor is operated at a low speed.

5. Washer Interlocking Operation

When the front wiper SW is turned to ON position, the current is sent from washer motor TERMINAL 2 to TERMINAL 1, and from front wiper and washer SW TERMINAL WF to TERMINAL EW, GROUND. Then washer motor is operated and window washer jet out water.

The current simultaneously is sent from WIPER fuse, front wiper and washer SW TERMINAL +B to TERMINAL +1, and from front wiper motor TERMINAL +1 to TERMINAL EW, GROUND to operate the wiper at a low speed.

Service Hints

C10 Combination SW

2–Ground : Always continuity
17–Ground : Approx. **12** volts with the ignition SW at **ON** position
7–Ground : Approx. **12** volts with the front wiper and washer at **LO** position
: Approx. **12** volts **1.5** to **10.7** seconds intermittently with the front wiper and washer SW at **INT** position
16–Ground : Approx. **12** volts with the ignition SW on unless the front wiper motor at **STOP** position
8–Ground : Approx. **12** volts with the front wiper and washer SW at **HI** position

F10 Front Wiper Motor

1–2 : Closed unless the front wiper motor at **STOP** position

○ : Parts Location

Code	See Page	Code	See Page	Code		See Page
C10	36 (LHD)	F10	34 (LHD 1CD–FTV)	J23	A	38 (LHD)
F9	32 (LHD 1AZ–FE)	J3	38 (LHD)	J24	B	38 (LHD)
	34 (LHD 1CD–FTV)	J9	38 (LHD)			
F10	32 (LHD 1AZ–FE)	J15	38 (LHD)			

⬭ : Junction Block and Wire Harness Connector

Code	See Page	Junction Block and Wire Harness (Connector Location)
IA	24 (LHD)	Instrument Panel J/B and Instrument Panel Wire (Lower Finish Panel)
IL	25 (LHD)	Instrument Panel J/B and Engine Room Main Wire (Lower Finish Panel)

▽ : Ground Points

Code	See Page	Ground Points Location
EB	52 (LHD 1AZ–FE)	Right Radiator Side Support
	54 (LHD 1CD–FTV)	
IA	56 (LHD)	Left Kick Panel

System Outline

When the ignition SW is on, the current is sent from WIPER fuse to front wiper motor TERMINAL +B and washer motor TERMINAL B.

1. Low Speed Operation

When the front wiper SW is turned to the LO position, the current is sent from front wiper and washer SW TERMINAL +B to TERMINAL +1, and from wiper motor TERMINAL +1 to TERMINAL EW, GROUND. Then the front wiper motor is operated at a low speed.

2. High Speed Operation

When the front wiper SW is turned to the HI position, the current is sent from front wiper and washer SW TERMINAL +B to TERMINAL +2, and from wiper motor TERMINAL +2 to TERMINAL EW, GROUND. Then the front wiper motor is operated at high speed.

3. Intermittent Operation

When the front wiper SW is turned to the INT position, the current is sent from front wiper and washer SW TERMINAL +B to TERMINAL EW, GROUND. This current operates the intermittent circuit an the current is sent from front wiper and washer SW TERMINAL +B to TERMINAL +1, and from front wiper motor TERMINAL +1 to TERMINAL EW, GROUND to operate the wiper. The intermittent operation is controlled by the charge/discharge function of the condenser, which is built in the relay.

4. Mist Operation

When the front wiper SW is turned to the MIST position, the current is sent from front wiper and washer SW TERMINAL +B to TERMINAL +1, and from front wiper motor TERMINAL +1 to TERMINAL EW, GROUND. Then the front wiper motor is operated at a low speed.

5. Washer Interlocking Operation

When the front wiper SW is turned to ON position, the current is sent from washer motor TERMINAL 2 to TERMINAL 1, and from front wiper and washer SW TERMINAL WF to TERMINAL EW, GROUND. Then washer motor is operated and window washer jet out water.

The current simultaneously is sent from WIPER fuse, front wiper and washer SW TERMINAL +B to TERMINAL +1, and from front wiper motor TERMINAL +1 to TERMINAL EW, GROUND to operate the wiper at a low speed.

Service Hints

C10 Combination SW

(A) 2, (B) 8–Ground : Always continuity
(A) 17, (B) 11–Ground : Approx. **12** volts with the ignition SW at **ON** position
(A) 7, (B) 2–Ground : Approx. **12** volts with the front wiper and washer at **LO** position
: Approx. **12** volts **1.5** to **10.7** seconds intermittently with the front wiper and washer SW at **INT** position
(A) 16, (B) 12–Ground : Approx. **12** volts with the ignition SW on unless the front wiper motor at **STOP** position
(A) 8, (B) 2–Ground : Approx. **12** volts with the front wiper and washer SW at **HI** position

F10 Front Wiper Motor

3–2 : Closed unless the front wiper motor at **STOP** position

○ : Parts Location

Code		See Page	Code	See Page	Code		See Page
C10	B	46 (RHD)	F10	42 (RHD 1AZ–FE)	J15		48 (RHD)
	A	46 (RHD)	F10	44 (RHD 1CD–FTV)	J23	A	48 (RHD)
F9		42 (RHD 1AZ–FE)	J3	48 (RHD)	J24	B	48 (RHD)
F9		44 (RHD 1CD–FTV)	J9	48 (RHD)			

: Junction Block and Wire Harness Connector

Code	See Page	Junction Block and Wire Harness (Connector Location)
IA	24 (RHD)	Instrument Panel J/B and Instrument Panel Wire (Left Side of Grove Box)
IL	25 (RHD)	Instrument Panel J/B and Engine Room Main Wire (Left Side of Grove Box)
3F	28 (RHD)	Center J/B and Instrument Panel Wire (Lower Finish Panel)

Front Wiper and Washer (RHD)

▽ : **Ground Points**

Code	See Page	Ground Points Location
EB	62 (RHD 1AZ–FE)	Right Radiator Side Support
	64 (RHD 1CD–FTV)	
IC	66 (RHD)	Right Kick Panel

Service Hints

H13 Headlight Beam Level Control SW

1–Ground : Approx. **12** volts with the light control SW at **HEAD** position
2–Ground : Always continuity

H1, H2 Headlight Beam Level Control Actuator LH, RH

3–Ground : Approx. **12** volts with the light control SW at **HEAD** position
1–Ground : Always continuity

: Parts Location

Code	See Page	Code	See Page	Code	See Page
H1	33 (LHD 1AZ–FE)	H2	35 (LHD 1CD–FTV)	J15	38 (LHD)
	35 (LHD 1CD–FTV)	H13	37 (LHD)		
H2	33 (LHD 1AZ–FE)	J9	38 (LHD)		

: Relay Blocks

Code	See Page	Relay Blocks (Relay Block Location)
2	22	Engine Room R/B (Front Side of Left Suspension Tower)

: Connector Joining Wire Harness and Wire Harness

Code	See Page	Joining Wire Harness and Wire Harness (Connector Location)
IH1	58 (LHD)	Instrument Panel Wire and Engine Room Main Wire (Upper Part of Front Body Pillar RH)

: Ground Points

Code	See Page	Ground Points Location
EB	52 (LHD 1AZ–FE)	Right Radiator Side Support
	54 (LHD 1CD–FTV)	

Service Hints

H13 Headlight Beam Level Control SW

1–Ground : Approx. **12** volts with the light control SW at **HEAD** position
2–Ground : Always continuity

H1, H2 Headlight Beam Level Control Actuator LH, RH

3–Ground : Approx. **12** volts with the light control SW at **HEAD** position
1–Ground : Always continuity

: Parts Location

Code	See Page	Code	See Page	Code	See Page
H1	43 (RHD 1AZ–FE)	H2	45 (RHD 1CD–FTV)	J15	48 (RHD)
	45 (RHD 1CD–FTV)	H13	47 (RHD)		
H2	43 (RHD 1AZ–FE)	J9	48 (RHD)		

: Relay Blocks

Code	See Page	Relay Blocks (Relay Block Location)
2	22	Engine Room R/B (Front Side of Left Suspension Tower)

: Connector Joining Wire Harness and Wire Harness

Code	See Page	Joining Wire Harness and Wire Harness (Connector Location)
IH1	68 (RHD)	Instrument Panel Wire and Engine Room Main Wire (Upper Part of Front Body Pillar RH)

: Ground Points

Code	See Page	Ground Points Location
EB	62 (RHD 1AZ–FE)	Right Radiator Side Support
	64 (RHD 1CD–FTV)	

Service Hints

H4 Headlight Cleaner Relay

1–Ground : Approx. **12** volts with the ignition SW at **ON** position
5–Ground : Always approx. **12** volts
3–Ground : Always continuity
4–Ground : Continuity with the light control SW at **HEAD** position and headlight cleaner SW at **ON** position

: Parts Location

Code	See Page	Code	See Page	Code		See Page
C12	36 (LHD)	H4	35 (LHD 1CD–FTV)	J13		38 (LHD)
H3	33 (LHD 1AZ–FE)	H14	37 (LHD)	J15		38 (LHD)
	35 (LHD 1CD–FTV)	J3	38 (LHD)	S22	A	39 (LHD)
H4	33 (LHD 1AZ–FE)	J9	38 (LHD)	S23	B	39 (LHD)

: Relay Blocks

Code	See Page	Relay Blocks (Relay Block Location)
2	22	Engine Room R/B (Front Side of Left Suspension Tower)

: Junction Block and Wire Harness Connector

Code	See Page	Junction Block and Wire Harness (Connector Location)
IA	24 (LHD)	Instrument Panel J/B and Instrument Panel Wire (Lower Finish Panel)
IL	25 (LHD)	Instrument Panel J/B and Engine Room Main Wire (Lower Finish Panel)

: Connector Joining Wire Harness and Wire Harness

Code	See Page	Joining Wire Harness and Wire Harness (Connector Location)
IH1	58 (LHD)	Instrument Panel Wire and Engine Room Main Wire (Upper Part of Front Body Pillar RH)

: Ground Points

Code	See Page	Ground Points Location
EB	52 (LHD 1AZ–FE)	Right Radiator Side Support
	54 (LHD 1CD–FTV)	
IA	56 (LHD)	Left Kick Panel

Service Hints

HEAD Relay

5–3 : Closed with the light control SW at **HEAD** position or dimmer SW at **FLASH** position

: Parts Location

Code	See Page	Code	See Page	Code	See Page
B10 A	36 (LHD)	H6	35 (LHD 1CD–FTV)	J8	38 (LHD)
C8	36 (LHD)	H7	33 (LHD 1AZ–FE)	J9	38 (LHD)
C12	36 (LHD)		35 (LHD 1CD–FTV)	J15	38 (LHD)
H5	33 (LHD 1AZ–FE)	H8	33 (LHD 1AZ–FE)	J23 A	38 (LHD)
	35 (LHD 1CD–FTV)		35 (LHD 1CD–FTV)	J24 B	38 (LHD)
H6	33 (LHD 1AZ–FE)	J3	38 (LHD)		

: Relay Blocks

Code	See Page	Relay Blocks (Relay Block Location)
2	22	Engine Room R/B (Front Side of Left Suspension Tower)

: Junction Block and Wire Harness Connector

Code	See Page	Junction Block and Wire Harness (Connector Location)
IA	24 (LHD)	Instrument Panel J/B and Instrument Panel Wire (Lower Finish Panel)
IL	25 (LHD)	Instrument Panel J/B and Engine Room Main Wire (Lower Finish Panel)

: Connector Joining Wire Harness and Wire Harness

Code	See Page	Joining Wire Harness and Wire Harness (Connector Location)
IC3	56 (LHD)	Instrument Panel Wire and Floor Wire (Upper Part of Front Body Pillar LH)
IH1	58 (LHD)	Instrument Panel Wire and Engine Room Main Wire (Upper Part of Front Body Pillar RH)

: Ground Points

Code	See Page	Ground Points Location
EA	52 (LHD 1AZ–FE)	Left Radiator Side Support
	54 (LHD 1CD–FTV)	
EB	52 (LHD 1AZ–FE)	Right Radiator Side Support
	54 (LHD 1CD–FTV)	
IA	56 (LHD)	Left Kick Panel

Headlight (LHD w/ Daytime Running Light)

System Outline

The daytime running light system operates and the HEADLIGHT and TAILLIGHT are turned ON when the ignition SW is ON and the body ECU TERMINAL "ALT L" ON condition is met with the light control SW at OFF position.

Operation Cancel Condition

* Ignition SW is turned OFF from ON
* Light control SW is at HEAD or TAIL position

Service Hints

HEAD Relay

3–5 : Closed with the light control SW at **HEAD** position or the dimmer SW at **FLASH** position
Closed with the engine running

DIMMER Relay

3–5 : Closed with the dimmer SW at **HIGH** or **FLASH** position

: Parts Location

Code	See Page	Code	See Page	Code	See Page
A9	32 (LHD 1AZ–FE)	H6	33 (LHD 1AZ–FE)	J8	38 (LHD)
	34 (LHD 1CD–FTV)		35 (LHD 1CD–FTV)	J9	38 (LHD)
B10 A	36 (LHD)	H7	33 (LHD 1AZ–FE)	J13	38 (LHD)
C8	36 (LHD)		35 (LHD 1CD–FTV)	J15	38 (LHD)
C12	36 (LHD)	H8	33 (LHD 1AZ–FE)	J23 A	38 (LHD)
H5	33 (LHD 1AZ–FE)		35 (LHD 1CD–FTV)	J24 B	38 (LHD)
	35 (LHD 1CD–FTV)	J3	38 (LHD)		

: Relay Blocks

Code	See Page	Relay Blocks (Relay Block Location)
2	22	Engine Room R/B (Front Side of Left Suspension Tower)

: Junction Block and Wire Harness Connector

Code	See Page	Junction Block and Wire Harness (Connector Location)
IA	24 (LHD)	Instrument Panel J/B and Instrument Panel Wire (Lower Finish Panel)
IJ		
IL	25 (LHD)	Instrument Panel J/B and Engine Room Main Wire (Lower Finish Panel)

: Connector Joining Wire Harness and Wire Harness

Code	See Page	Joining Wire Harness and Wire Harness (Connector Location)
IC3	56 (LHD)	Instrument Panel Wire and Floor Wire (Upper Part of Front Body Pillar LH)
IE1	56 (LHD)	Engine Room Main Wire and Floor Wire (Upper Part of Front Body Pillar LH)
IH1	58 (LHD)	Instrument Panel Wire and Engine Room Main Wire (Upper Part of Front Body Pillar RH)
IL3	58 (LHD)	Engine Wire and Instrument Panel Wire (Right Kick Panel)

: Ground Points

Code	See Page	Ground Points Location
EA	52 (LHD 1AZ–FE)	Left Radiator Side Support
	54 (LHD 1CD–FTV)	
EB	52 (LHD 1AZ–FE)	Right Radiator Side Support
	54 (LHD 1CD–FTV)	
IA	56 (LHD)	Left Kick Panel

: Splice Points

Code	See Page	Wire Harness with Splice Points	Code	See Page	Wire Harness with Splice Points
E7	52 (LHD 1AZ–FE)	Engine Room Main Wire	E7	54 (LHD 1CD–FTV)	Engine Room Main Wire

Service Hints

HEAD Relay

5–3 : Closed with the light control SW at **HEAD** position or dimmer SW at **FLASH** position

: Parts Location

Code		See Page	Code	See Page	Code		See Page
B10	A	46 (RHD)	H6	43 (RHD 1AZ–FE)	J3		48 (RHD)
C8		46 (RHD)		45 (RHD 1CD–FTV)	J8		48 (RHD)
C12	A	46 (RHD)	H7	43 (RHD 1AZ–FE)	J9		48 (RHD)
	B	46 (RHD)		45 (RHD 1CD–FTV)	J15		48 (RHD)
H5		43 (RHD 1AZ–FE)	H8	43 (RHD 1AZ–FE)	J23	A	48 (RHD)
		45 (RHD 1CD–FTV)		45 (RHD 1CD–FTV)	J24	B	48 (RHD)

: Relay Blocks

Code	See Page	Relay Blocks (Relay Block Location)
2	22	Engine Room R/B (Front Side of Left Suspension Tower)

: Junction Block and Wire Harness Connector

Code	See Page	Junction Block and Wire Harness (Connector Location)
IA	24 (RHD)	Instrument Panel J/B and Instrument Panel Wire (Left Side of Grove Box)
IL	25 (RHD)	Instrument Panel J/B and Engine Room Main Wire (Left Side of Grove Box)

: Connector Joining Wire Harness and Wire Harness

Code	See Page	Joining Wire Harness and Wire Harness (Connector Location)
IC3	66 (RHD)	Instrument Panel Wire and Floor Wire (Upper Part of Front Body Pillar LH)
IH1	68 (RHD)	Instrument Panel Wire and Engine Room Main Wire (Upper Part of Front Body Pillar RH)

: Ground Points

Code	See Page	Ground Points Location
EA	62 (RHD 1AZ–FE)	Left Radiator Side Support
	64 (RHD 1CD–FTV)	
EB	62 (RHD 1AZ–FE)	Right Radiator Side Support
	64 (RHD 1CD–FTV)	
IC	66 (RHD)	Right Kick Panel

Service Hints

HORN Relay

5–3 : Closed horn SW ON

: Parts Location

Code	See Page	Code	See Page	Code	See Page
C11	36 (LHD)	H11	35 (LHD 1CD–FTV)	H12	35 (LHD 1CD–FTV)
H11	33 (LHD 1AZ–FE)	H12	33 (LHD 1AZ–FE)		

: Relay Blocks

Code	See Page	Relay Blocks (Relay Block Location)
2	22	Engine Room R/B (Front Side of Left Suspension Tower)

: Connector Joining Wire Harness and Wire Harness

Code	See Page	Joining Wire Harness and Wire Harness (Connector Location)
IH2	58 (LHD)	Instrument Panel Wire and Engine Room Main Wire (Upper Part of Front Body Pillar RH)

Service Hints

HORN Relay

5–3 : Closed horn SW ON

: Parts Location

Code	See Page	Code	See Page	Code	See Page
C11	46 (RHD)	H11	45 (RHD 1CD–FTV)	H12	45 (RHD 1CD–FTV)
H11	43 (RHD 1AZ–FE)	H12	43 (RHD 1AZ–FE)		

: Relay Blocks

Code	See Page	Relay Blocks (Relay Block Location)
2	22	Engine Room R/B (Front Side of Left Suspension Tower)

: Junction Block and Wire Harness Connector

Code	See Page	Junction Block and Wire Harness (Connector Location)
4C	30 (RHD)	Center J/B No.2 and Instrument Panel Wire (Near the Steering Column)
4E		

: Connector Joining Wire Harness and Wire Harness

Code	See Page	Joining Wire Harness and Wire Harness (Connector Location)
ID2	66 (RHD)	Instrument Panel Wire and Engine Room Main Wire (Upper Part of Front Body Pillar LH)

: Parts Location

Code	See Page	Code	See Page	Code	See Page
J1 A	38 (LHD)	J15	38 (LHD)	J24 B	38 (LHD)
J2 B	38 (LHD)	J16	38 (LHD)	J32	40 (LHD)
J3	38 (LHD)	J17	38 (LHD)	J33 A	40 (LHD)
J4	38 (LHD)	J19	38 (LHD)	J34 B	40 (LHD)
J8	38 (LHD)	J21	38 (LHD)	J35	40 (LHD)
J9	38 (LHD)	J22	38 (LHD)	J36 A	40 (LHD)
J10	38 (LHD)	J23 A	38 (LHD)	J37 B	40 (LHD)

: Relay Blocks

Code	See Page	Relay Blocks (Relay Block Location)
2	22	Engine Room R/B (Front Side of Left Suspension Tower)
5	23	Engine Room R/B No.4 (Left Side of Air Cleaner)
7	23	Engine Room R/B No.2 (Front Side of Left Suspension Tower)

: Junction Block and Wire Harness Connector

Code	See Page	Junction Block and Wire Harness (Connector Location)
IA	24 (LHD)	Instrument Panel J/B and Instrument Panel Wire (Lower Finish Panel)
ID		
IJ		
IK	25 (LHD)	Instrument Panel J/B and Roof Wire (Lower Finish Panel)
IP	25 (LHD)	Instrument Panel J/B and Engine Room Main Wire (Lower Finish Panel)
3A	28 (LHD)	Center J/B and Instrument Panel Wire (Right Side of Grove Box)
3B		
3D		
3F		
3G		
3H		
3I		
3J		
3K		

: Connector Joining Wire Harness and Wire Harness

Code	See Page	Joining Wire Harness and Wire Harness (Connector Location)
EF1	52 (LHD 1AZ–FE)	Engine Room Main Wire and Engine Room No.2 Wire (Under the Headlight RH)
IA1	56 (LHD)	Front Door LH Wire and Instrument Panel Wire (Left Kick Panel)
IC2	56 (LHD)	Instrument Panel Wire and Floor Wire (Upper Part of Front Body Pillar LH)
IF1	56 (LHD)	Instrument Panel Wire and Cowl No.2 Wire (Behind the Combination Meter)
IH1	58 (LHD)	Instrument Panel Wire and Engine Room Main Wire (Upper Part of Front Body Pillar RH)
II3	58 (LHD)	Instrument Panel Wire and Floor No.2 Wire (Upper Part of Front Body Pillar RH)
IK1	58 (LHD)	Front Door RH Wire and Instrument Panel Wire (Right Kick Panel)
IL2	58 (LHD)	Engine Wire and Instrument Panel Wire (Right Kick Panel)
IL3		
BA1	60 (LHD)	Rear Door LH Wire and Floor Wire (Left Center Pillar)
BB1	60 (LHD)	Rear Door RH Wire and Floor No.2 Wire (Right Center Pillar)
BC1	60 (LHD)	Back Door No.1 Wire and Floor Wire (Upper Part of Left Quarter Panel)
BD1	60 (LHD)	Roof No.2 Wire and Floor No.2 Wire (Right Quarter Panel)
BE1	60 (LHD)	Back Door No.1 Wire and Back Door No.2 Wire (Back Door Left)

I GROUND POINT (LHD)

: **Ground Points**

Code	See Page	Ground Points Location
EA	52 (LHD 1AZ–FE)	Left Radiator Side Support
	54 (LHD 1CD–FTV)	
EB	52 (LHD 1AZ–FE)	Right Radiator Side Support
	54 (LHD 1CD–FTV)	
EC	52 (LHD 1AZ–FE)	Intake Side of Cylinder Block
ED	52 (LHD 1AZ–FE)	Left Side of Cylinder Block
EE	54 (LHD 1CD–FTV)	Near the Starter
IA	56 (LHD)	Left Kick Panel
IB	56 (LHD)	Behind the Combination Meter
IC	56 (LHD)	Right Kick Panel
BA	60 (LHD)	Near the Interior Light
BB	60 (LHD)	Front Side of the Left Quarter Panel
BC	60 (LHD)	Left Quarter Panel
BD	60 (LHD)	Front Side of the Right Quarter Panel
BE	60 (LHD)	Right Quarter Panel
BF	60 (LHD)	Center of the Back Door Panel

: **Splice Points**

Code	See Page	Wire Harness with Splice Points	Code	See Page	Wire Harness with Splice Points
E1	52 (LHD 1AZ–FE)	Engine Room Main Wire	I2	58 (LHD)	Cowl No.2 Wire
	54 (LHD 1CD–FTV)		B1	60 (LHD)	Roof Wire
E2	52 (LHD 1AZ–FE)	Engine Wire	B3	60 (LHD)	Rear Door RH Wire
E3			B4	60 (LHD)	Rear Door LH Wire
E7	52 (LHD 1AZ–FE)	Engine Room Main Wire	B5	60 (LHD)	Roof No.2 Wire
	54 (LHD 1CD–FTV)		B6	60 (LHD)	Back Door No.2 Wire
I1	58 (LHD)	Cowl No.2 Wire			

Interior Light (LHD)

Service Hints

Body ECU

3–Ground : Always approx. **12** volts
19–Ground : Always approx. **12** volts

B12 Back Door Courtesy SW

1–2 : Continuity with the back door open

D8, D9, D10, D11 Door Courtesy SW Front LH, RH Rear LH, RH

1–Ground : Continuity with the door open

P7 Personal Light

1–Ground : Always approx. **12** volts
2–Ground : Always continuity

V4, V5 Vanity Light LH, RH

1–Ground : Approx. **12** volts with the ignition SW at **ON** position
2–Ground : Always continuity

: Parts Location

Code	See Page	Code	See Page	Code	See Page
B12	40 (LHD)	D9	40 (LHD)	J16	38 (LHD)
C8 A	36 (LHD)	D10	40 (LHD)	L3	40 (LHD)
C9 B	36 (LHD)	D11	40 (LHD)	P7	41 (LHD)
D2	37 (LHD)	I13	37 (LHD)	V4	41 (LHD)
D3	37 (LHD)	I15	40 (LHD)	V5	41 (LHD)
D8	40 (LHD)	I16	40 (LHD)		

: Relay Blocks

Code	See Page	Relay Blocks (Relay Block Location)
2	22	Engine Room R/B (Front Side of Left Suspension Tower)

: Junction Block and Wire Harness Connector

Code	See Page	Junction Block and Wire Harness (Connector Location)
IA	24 (LHD)	Instrument Panel J/B and Instrument Panel Wire (Lower Finish Panel)
IB		
IJ		
IK	25 (LHD)	Instrument Panel J/B and Roof Wire (Lower Finish Panel)
IL	25 (LHD)	Instrument Panel J/B and Engine Room Main Wire (Lower Finish Panel)
IM	25 (LHD)	Instrument Panel J/B and Floor Wire (Lower Finish Panel)
3A	28 (LHD)	Center J/B and Instrument Panel Wire (Right Side of Grove Box)
3D		
3E		
3F		
3H		
3I		
3J		
3K		

: Connector Joining Wire Harness and Wire Harness

Code	See Page	Joining Wire Harness and Wire Harness (Connector Location)
IC1	56 (LHD)	Instrument Panel Wire and Floor Wire (Upper Part of Front Body Pillar LH)
IC3		
II2	58 (LHD)	Instrument Panel Wire and Floor No.2 Wire (Upper Part of Front Body Pillar RH)
IM1	58 (LHD)	Floor No.2 Wire and Instrument Panel Wire (Right Kick Panel)
BC1	60 (LHD)	Back Door No.1 Wire and Floor Wire (Upper Part of Left Quarter Panel)
BC2		
BE1	60 (LHD)	Back Door No.1 Wire and Back Door No.2 Wire (Back Door Left)

: Ground Points

Code	See Page	Ground Points Location
IA	56 (LHD)	Left Kick Panel
BF	60 (LHD)	Center of the Back Door Panel

: Splice Points

Code	See Page	Wire Harness with Splice Points	Code	See Page	Wire Harness with Splice Points
B1	60 (LHD)	Roof Wire	B6	60 (LHD)	Back Door No.2 Wire
B2					

Illumination (LHD)

Service Hints

B10 (A) Body ECU

3–Ground : Always approx. **12** volts

4–Ground : Approx. **12** volts with the ignition SW at **ON** position

TAIL Relay

5–3 : Closed with the light control SW at **TAIL** or **HEAD** position

: Parts Location

Code	See Page	Code	See Page	Code	See Page
A25	36 (LHD)	I11	37 (LHD)	R6 A	38 (LHD)
B10 A	36 (LHD)	J3	38 (LHD)	R11	38 (LHD)
C6	36 (LHD)	J4	38 (LHD)	S10	39 (LHD)
C8	36 (LHD)	J10	38 (LHD)	S11	39 (LHD)
C12	36 (LHD)	J16	38 (LHD)	S14 A	39 (LHD)
H13	37 (LHD)	J17	38 (LHD)	S15 B	39 (LHD)
H14	37 (LHD)	J22	38 (LHD)		
H15	37 (LHD)	R4 C	38 (LHD)		

: Relay Blocks

Code	See Page	Relay Blocks (Relay Block Location)
2	22	Engine Room R/B (Front Side of Left Suspension Tower)

: Junction Block and Wire Harness Connector

Code	See Page	Junction Block and Wire Harness (Connector Location)
IA	24 (LHD)	Instrument Panel J/B and Instrument Panel Wire (Lower Finish Panel)
IB		
IL	25 (LHD)	Instrument Panel J/B and Engine Room Main Wire (Lower Finish Panel)
IN		
3A	28 (LHD)	Center J/B and Instrument Panel Wire (Right Side of Grove Box)
3D		
3F		
3G		
3H		
3J		
3K		

: Connector Joining Wire Harness and Wire Harness

Code	See Page	Joining Wire Harness and Wire Harness (Connector Location)
IC3	56 (LHD)	Instrument Panel Wire and Floor Wire (Upper Part of Front Body Pillar LH)

: Ground Points

Code	See Page	Ground Points Location
IA	56 (LHD)	Left Kick Panel
IB	56 (LHD)	Behind the Combination Meter
IC	56 (LHD)	Right Kick Panel

Illumination (RHD)

Service Hints

TAIL Relay

5–3 : Closed with the light control SW at **TAIL** or **HEAD** position

: Parts Location

Code		See Page	Code	See Page	Code		See Page
A25		46 (RHD)	H13	47 (RHD)	R4	C	48 (RHD)
C6		46 (RHD)	H15	47 (RHD)	R6	A	48 (RHD)
C8		46 (RHD)	I11	47 (RHD)	R11		48 (RHD)
C12	A	46 (RHD)	J3	48 (RHD)			
C12	B	46 (RHD)	J16	48 (RHD)			

: Relay Blocks

Code	See Page	Relay Blocks (Relay Block Location)
2	22	Engine Room R/B (Front Side of Left Suspension Tower)

: Junction Block and Wire Harness Connector

Code	See Page	Junction Block and Wire Harness (Connector Location)
IA	24 (RHD)	Instrument Panel J/B and Instrument Panel Wire (Left Side of Grove Box)
IB		
IN	25 (RHD)	Instrument Panel J/B and Engine Room Main Wire (Left Side of Grove Box)
3A	28 (RHD)	Center J/B and Instrument Panel Wire (Lower Finish Panel)
3D		
3F		
3G		
3H		
3J		
3K		
4B	30 (RHD)	Center J/B No.2 and Instrument Panel Wire (Near the Steering Column)
4C		

: Ground Points

Code	See Page	Ground Points Location
IB	66 (RHD)	Behind the Combination Meter
IC	66 (RHD)	Right Kick Panel

Interior Light (RHD)

Service Hints

Body ECU

3–Ground : Always approx. **12** volts
19–Ground : Always approx. **12** volts

B12 Back Door Courtesy SW

1–2 : Continuity with the back door open

D8, D9, D10, D11 Door Courtesy SW Front LH, RH Rear LH, RH

1–Ground : Continuity with the door open

P7 Personal Light

1–Ground : Always approx. **12** volts
2–Ground : Always continuity

V4, V5 Vanity Light LH, RH

1–Ground : Approx. **12** volts with the ignition SW at **ON** position
2–Ground : Always continuity

: Parts Location

Code	See Page	Code	See Page	Code	See Page
B12	50 (RHD)	D11	50 (RHD)	J29 B	48 (RHD)
C8 A	46 (RHD)	I12 B	47 (RHD)	L3	50 (RHD)
C9 B	46 (RHD)	I13 A	47 (RHD)	P7	51 (RHD)
D2	47 (RHD)	I15	50 (RHD)	S32 A	49 (RHD)
D3	47 (RHD)	I16	50 (RHD)	S33 B	49 (RHD)
D8	50 (RHD)	J16	48 (RHD)	V4	51 (RHD)
D9	50 (RHD)	J22	48 (RHD)	V5	51 (RHD)
D10	50 (RHD)	J28 A	48 (RHD)		

: Relay Blocks

Code	See Page	Relay Blocks (Relay Block Location)
2	22	Engine Room R/B (Front Side of Left Suspension Tower)

: Junction Block and Wire Harness Connector

Code	See Page	Junction Block and Wire Harness (Connector Location)
IA	24 (RHD)	Instrument Panel J/B and Instrument Panel Wire (Left Side of Grove Box)
IB		
IJ		
IK	25 (RHD)	Instrument Panel J/B and Roof Wire (Left Side of Grove Box)
IL	25 (RHD)	Instrument Panel J/B and Engine Room Main Wire (Left Side of Grove Box)
IM	25 (RHD)	Instrument Panel J/B and Floor Wire (Left Side of Grove Box)
3A	28 (RHD)	Center J/B and Instrument Panel Wire (Lower Finish Panel)
3E	28 (RHD)	Center J/B and Floor No.2 Wire (Lower Finish Panel)
3H	28 (RHD)	Center J/B and Instrument Panel Wire (Lower Finish Panel)
3K		

: Connector Joining Wire Harness and Wire Harness

Code	See Page	Joining Wire Harness and Wire Harness (Connector Location)
IC3	66 (RHD)	Instrument Panel Wire and Floor Wire (Upper Part of Front Body Pillar LH)
BC1	70 (RHD)	Back Door No.1 Wire and Floor Wire (Upper Part of Left Quarter Panel)
BC2		
BE1	70 (RHD)	Back Door No.1 Wire and Back Door No.2 Wire (Back Door Left)

: **Ground Points**

Code	See Page	Ground Points Location
IA	66 (RHD)	Left Kick Panel
BF	70 (RHD)	Center of the Back Door Panel

: **Splice Points**

Code	See Page	Wire Harness with Splice Points	Code	See Page	Wire Harness with Splice Points
B7	70 (RHD)	Roof Wire	B12	70 (RHD)	Back Door No.2 Wire
B8					

: Parts Location

Code		See Page	Code		See Page	Code		See Page
J1	A	48 (RHD)	J19		48 (RHD)	J35		50 (RHD)
J2	B	48 (RHD)	J21		48 (RHD)	J36	A	50 (RHD)
J3		48 (RHD)	J22		48 (RHD)	J37	B	50 (RHD)
J8		48 (RHD)	J32		50 (RHD)	S30	A	49 (RHD)
J15		48 (RHD)	J33	A	50 (RHD)	S31	B	49 (RHD)
J16		48 (RHD)	J34	B	50 (RHD)			

: Relay Blocks

Code	See Page	Relay Blocks (Relay Block Location)
2	22	Engine Room R/B (Front Side of Left Suspension Tower)
7	23	Engine Room R/B No.2 (Front Side of Left Suspension Tower)

: Junction Block and Wire Harness Connector

Code	See Page	Junction Block and Wire Harness (Connector Location)
IA	24 (RHD)	Instrument Panel J/B and Instrument Panel Wire (Left Side of Grove Box)
ID		
IJ		
IK	25 (RHD)	Instrument Panel J/B and Roof Wire (Left Side of Grove Box)
IP	25 (RHD)	Instrument Panel J/B and Engine Room Main Wire (Left Side of Grove Box)
3A	28 (RHD)	Center J/B and Instrument Panel Wire (Lower Finish Panel)
3B		
3D		
3E	28 (RHD)	Center J/B and Floor No.2 Wire (Lower Finish Panel)
3F	28 (RHD)	Center J/B and Instrument Panel Wire (Lower Finish Panel)
3G		
3H		
3I		
3J		
3K		
4A	30 (RHD)	Center J/B No.2 and Instrument Panel Wire (Near the Steering Column)
4B		
4C		

I GROUND POINT (RHD)

: Connector Joining Wire Harness and Wire Harness

Code	See Page	Joining Wire Harness and Wire Harness (Connector Location)
EA1	62 (RHD 1AZ–FE)	Engine Wire and Engine Room Main Wire (Near The Engine Room R/B)
	64 (RHD 1CD–FTV)	
ED1	62 (RHD 1AZ–FE)	Engine Room No.4 Wire and Engine Room Main Wire (Near the Radiator Fan Motor)
	64 (RHD 1CD–FTV)	
EE1	62 (RHD 1AZ–FE)	Engine Room Main Wire and Engine Room No.2 Wire (Under the Headlight LH)
EF1	62 (RHD 1AZ–FE)	Engine Room Main Wire and Engine Room No.2 Wire (Under the Headlight RH)
IA1	68 (RHD)	Front Door RH Wire and Instrument Panel Wire (Right Kick Panel)
IA3		
IC2	66 (RHD)	Instrument Panel Wire and Floor Wire (Upper Part of Front Body Pillar LH)
IF1	68 (RHD)	Instrument Panel Wire and Cowl No.2 Wire (Behind the Combination Meter)
IH1	68 (RHD)	Instrument Panel Wire and Engine Room Main Wire (Upper Part of Front Body Pillar RH)
II3	68 (RHD)	Instrument Panel Wire and Floor No.2 Wire (Upper Part of Front Body Pillar RH)
IK1	66 (RHD)	Front Door LH Wire and Instrument Panel Wire (Left Kick Panel)
IL3	66 (RHD)	Engine Wire and Instrument Panel Wire (Left Kick Panel)
BA1	70 (RHD)	Rear Door LH Wire and Floor Wire (Left Center Pillar)
BB1	70 (RHD)	Rear Door RH Wire and Floor No.2 Wire (Right Center Pillar)
BC1	70 (RHD)	Back Door No.1 Wire and Floor Wire (Upper Part of Left Quarter Panel)
BD1	70 (RHD)	Roof No.2 Wire and Floor No.2 Wire (Right Quarter Panel)
BE1	70 (RHD)	Back Door No.1 Wire and Back Door No.2 Wire (Back Door Left)

: Ground Points

Code	See Page	Ground Points Location
EA	62 (RHD 1AZ–FE)	Left Radiator Side Support
	64 (RHD 1CD–FTV)	
EB	62 (RHD 1AZ–FE)	Right Radiator Side Support
	64 (RHD 1CD–FTV)	
EC	62 (RHD 1AZ–FE)	Intake Side of Cylinder Block
ED	62 (RHD 1AZ–FE)	Left Side of Cylinder Block
EE	64 (RHD 1CD–FTV)	Near the Starter
IA	66 (RHD)	Left Kick Panel
IB	66 (RHD)	Behind the Combination Meter
IC	66 (RHD)	Right Kick Panel
BA	70 (RHD)	Near the Interior Light
BB	70 (RHD)	Front Side of the Left Quarter Panel
BC	70 (RHD)	Left Quarter Panel
BD	70 (RHD)	Front Side of the Right Quarter Panel
BE	70 (RHD)	Right Quarter Panel
BF	70 (RHD)	Center of the Back Door Panel

: Splice Points

Code	See Page	Wire Harness with Splice Points	Code	See Page	Wire Harness with Splice Points
E12	62 (RHD 1AZ–FE)	Engine Room Main Wire	I6	68 (RHD)	Cowl No.2 Wire
	64 (RHD 1CD–FTV)		B7	70 (RHD)	Roof Wire
E13	62 (RHD 1AZ–FE)	Engine Wire	B9	70 (RHD)	Rear Door RH Wire
E17	62 (RHD 1AZ–FE)	Engine Room Main Wire	B10	70 (RHD)	Rear Door LH Wire
	64 (RHD 1CD–FTV)		B11	70 (RHD)	Roof No.2 Wire
I5	68 (RHD)	Cowl No.2 Wire	B12	70 (RHD)	Back Door No.2 Wire

System Outline

When the driver's side door is opened with the ignition SW OFF and the tail relay ON, a buzzer comes on.

Service Hints

D8 Door Courtesy SW Front LH

1–Ground : Continuity with the door open

C8 (A), C9 (B) Combination Meter

(A) 21–Ground : Always approx. **12** volts

(A) 1–Ground : Approx. **12** volts with the ignition SW at **ON** position

(A) 20, (A) 40–Ground : Always continuity

(A) 23–Ground : Approx. **12** volts with the light control SW at **TAIL** or **HEAD** position

: Parts Location

Code		See Page	Code		See Page	Code		See Page
B10		36 (LHD)	D8		40 (LHD)	S15	B	39 (LHD)
C8	A	36 (LHD)	J16		38 (LHD)			
C9	B	36 (LHD)	S14	A	39 (LHD)			

: Relay Blocks

Code	See Page	Relay Blocks (Relay Block Location)
2	22	Engine Room R/B (Front Side of Left Suspension Tower)

: Junction Block and Wire Harness Connector

Code	See Page	Junction Block and Wire Harness (Connector Location)
IB	24 (LHD)	Instrument Panel J/B and Instrument Panel Wire (Lower Finish Panel)
IL	25 (LHD)	Instrument Panel J/B and Engine Room Main Wire (Lower Finish Panel)
3F	28 (LHD)	Center J/B and Instrument Panel Wire (Right Side of Grove Box)
3H		
3J		
3K		

: Connector Joining Wire Harness and Wire Harness

Code	See Page	Joining Wire Harness and Wire Harness (Connector Location)
IC1	56 (LHD)	Instrument Panel Wire and Floor Wire (Upper Part of Front Body Pillar LH)
IC3		

: Ground Points

Code	See Page	Ground Points Location
IC	56 (LHD)	Right Kick Panel

System Outline

When the driver's side door is opened with the ignition SW OFF and the tail relay ON, a buzzer comes on.

Service Hints

D9 Door Courtesy SW Front RH

1–Ground : Continuity with the door open

C8 (A), C9 (B) Combination Meter

(A) 21–Ground : Always approx. **12** volts

(A) 1–Ground : Approx. **12** volts with the ignition SW at **ON** position

(A) 20, (A) 40–Ground : Always continuity

(A) 23–Ground : Approx. **12** volts with the light control SW at **TAIL** or **HEAD** position

: Parts Location

Code		See Page	Code	See Page	Code	See Page
C8	A	46 (RHD)	D9	50 (RHD)		
C9	B	46 (RHD)	J16	48 (RHD)		

: Relay Blocks

Code	See Page	Relay Blocks (Relay Block Location)
2	22	Engine Room R/B (Front Side of Left Suspension Tower)

: Junction Block and Wire Harness Connector

Code	See Page	Junction Block and Wire Harness (Connector Location)
IB	24 (RHD)	Instrument Panel J/B and Instrument Panel Wire (Left Side of Grove Box)
IL	25 (RHD)	Instrument Panel J/B and Engine Room Main Wire (Left Side of Grove Box)
3E	28 (RHD)	Center J/B and Floor No.2 Wire (Lower Finish Panel)
3F	28 (RHD)	Center J/B and Instrument Panel Wire (Lower Finish Panel)
3H		
3K		

: Ground Points

Code	See Page	Ground Points Location
IC	66 (RHD)	Right Kick Panel

System Outline

The moon roof can be operated when the ignition SW is turned to ON position.

1. Slide Open Operation

If moon roof control SW is turned to open with the ignition SW being on, moon roof operate to open automatically. It stops when SW is pushed again.

2. Slide Close Operation

During the moon roof control SW is operated on close side when ignition SW is on, the motor operates to close moon roof. However, when the roof reaches at the point where several centimeters before the roof is totally closed, the limit SW inside moon roof control relay operates and the roof stops to move. At that time, the roof starts to move again to close totally if the close side of moon roof control SW is pushed continuously.

Service Hints

M3 Moon Roof Control SW and Moon Roof Control Relay

2–Ground : Approx. **12** volts with the ignition SW at **ON** position
3–Ground : Approx. **12** volts with the ignition SW on and the moon roof SW at **CLOSE** position
1–Ground : Approx. **12** volts with the ignition SW on and the moon roof SW at **OPEN** position
4–Ground : Always continuity

: Parts Location

Code	See Page	Code	See Page	Code	See Page
D20	40 (LHD)	J2 B	38 (LHD)	M3	40 (LHD)
J1 A	38 (LHD)	J22	38 (LHD)	M4	40 (LHD)

: Junction Block and Wire Harness Connector

Code	See Page	Junction Block and Wire Harness (Connector Location)
IK	25 (LHD)	Instrument Panel J/B and Roof Wire (Lower Finish Panel)

: Connector Joining Wire Harness and Wire Harness

Code	See Page	Joining Wire Harness and Wire Harness (Connector Location)
IB1	56 (LHD)	Instrument Panel Wire and Roof Wire (Upper Part of Front Body Pillar LH)

: Ground Points

Code	See Page	Ground Points Location
IC	56 (LHD)	Right Kick Panel
BA	60 (LHD)	Near the Interior Light

System Outline

The moon roof can be operated when the ignition SW is turned to ON position.

1. Slide Open Operation

If moon roof control SW is turned to open with the ignition SW being on, moon roof operate to open automatically. It stops when SW is pushed again.

2. Slide Close Operation

During the moon roof control SW is operated on close side when ignition SW is on, the motor operates to close moon roof. However, when the roof reaches at the point where several centimeters before the roof is totally closed, the limit SW inside moon roof control relay operates and the roof stops to move. At that time, the roof starts to move again to close totally if the close side of moon roof control SW is pushed continuously.

Service Hints

M3 Moon Roof Control SW and Moon Roof Control Relay

2–Ground : Approx. **12** volts with the ignition SW at **ON** position
3–Ground : Approx. **12** volts with the ignition SW on and the moon roof SW at **CLOSE** position
1–Ground : Approx. **12** volts with the ignition SW on and the moon roof SW at **OPEN** position
4–Ground : Always continuity

: Parts Location

Code	See Page	Code	See Page	Code	See Page
D20	50 (RHD)	J3	48 (RHD)	M4	50 (RHD)
J1	48 (RHD)	M3	50 (RHD)		

: Junction Block and Wire Harness Connector

Code	See Page	Junction Block and Wire Harness (Connector Location)
IK	25 (RHD)	Instrument Panel J/B and Roof Wire (Left Side of Grove Box)
3A	28 (RHD)	Center J/B and Instrument Panel Wire (Lower Finish Panel)
3B		
3F		

: Connector Joining Wire Harness and Wire Harness

Code	See Page	Joining Wire Harness and Wire Harness (Connector Location)
IA3	68 (RHD)	Front Door RH Wire and Instrument Panel Wire (Right Kick Panel)
IB1	66 (RHD)	Instrument Panel Wire and Roof Wire (Upper Part of Front Body Pillar LH)

: Ground Points

Code	See Page	Ground Points Location
IC	66 (RHD)	Right Kick Panel
BA	70 (RHD)	Near the Interior Light

Service Hints

I14 Ignition SW

2–3 : Closed with the ignition key at **ACC** or **ON** position
2–4 : Closed with the ignition key at **ON** or **ST** position
7–6 : Closed with the ignition key at **ON** or **ST** position
7–8 : Closed with the ignition key at **ST** position
2–1 : Closed with the ignition key at **ST** position (A/T)

: Parts Location

Code	See Page	Code		See Page	Code		See Page
F19	37 (LHD)	J38	B	33 (LHD 1AZ–FE)	S28	A	49 (RHD)
	47 (RHD)			35 (LHD 1CD–FTV)	S29	B	49 (RHD)
I14	37 (LHD)	J39	A	33 (LHD 1AZ–FE)			
	47 (RHD)			35 (LHD 1CD–FTV)			

: Relay Blocks

Code	See Page	Relay Blocks (Relay Block Location)
2	22	Engine Room R/B (Front Side of Left Suspension Tower)
5	23	Engine Room R/B No.4 (Left Side of Air Cleaner)
7	23	Engine Room R/B No.2 (Front Side of Left Suspension Tower)

: Junction Block and Wire Harness Connector

Code	See Page	Junction Block and Wire Harness (Connector Location)
IC	24 (LHD)	Instrument Panel J/B and Instrument Panel Wire (Lower Finish Panel)
	24 (RHD)	Instrument Panel J/B and Engine Wire (Left Side of Grove Box)
IH	24 (LHD)	Instrument Panel J/B and Instrument Panel Wire (Lower Finish Panel)
	24 (RHD)	Instrument Panel J/B and Instrument Panel Wire (Left Side of Grove Box)
IN	25 (LHD)	Instrument Panel J/B and Engine Room Main Wire (Lower Finish Panel)
	25 (RHD)	Instrument Panel J/B and Engine Room Main Wire (Left Side of Grove Box)
IP	25 (LHD)	Instrument Panel J/B and Engine Room Main Wire (Lower Finish Panel)
	25 (RHD)	Instrument Panel J/B and Engine Room Main Wire (Left Side of Grove Box)
2I	22	Engine Room J/B and Engine Wire (Front Side of Left Suspension Tower)

: Connector Joining Wire Harness and Wire Harness

Code	See Page	Joining Wire Harness and Wire Harness (Connector Location)
EA1	52 (LHD 1AZ–FE)	Engine Wire and Engine Room Main Wire (Near The Engine Room R/B)
	54 (LHD 1CD–FTV)	
	62 (RHD 1AZ–FE)	
	64 (RHD 1CD–FTV)	
ID3	56 (LHD)	Instrument Panel Wire and Engine Room Main Wire (Upper Part of Front Body Pillar LH)
IL3	58 (LHD)	Engine Wire and Instrument Panel Wire (Right Kick Panel)
	66 (RHD)	Engine Wire and Instrument Panel Wire (Left Kick Panel)

: Splice Points

Code	See Page	Wire Harness with Splice Points	Code	See Page	Wire Harness with Splice Points
E7	52 (LHD 1AZ–FE)	Engine Room Main Wire	I7	58 (LHD)	Instrument Panel Wire
	54 (LHD 1CD–FTV)			68 (RHD)	

PTC Heater (LHD 1AZ–FE)

Service Hints

P6 PTC Heater Amplifier

2–Ground : Approx. **12** volts with the ignition SW at **ON** position

5–Ground : Always continuity

: Parts Location

Code	See Page	Code	See Page	Code	See Page
A9	32 (LHD 1AZ–FE)	E10 B	37 (LHD)	J16	38 (LHD)
A10	32 (LHD 1AZ–FE)	E11 A	37 (LHD)	J17	38 (LHD)
A12	36 (LHD)	J5 A	38 (LHD)	P5	38 (LHD)
B10 A	36 (LHD)	J6 B	38 (LHD)	P6	38 (LHD)
C8	36 (LHD)	J8	38 (LHD)	S22 A	39 (LHD)
E8 D	37 (LHD)	J13 A	38 (LHD)	S23 B	39 (LHD)
E9 C	37 (LHD)	J14 B	38 (LHD)	W1	33 (LHD 1AZ–FE)

: Relay Blocks

Code	See Page	Relay Blocks (Relay Block Location)
2	22	Engine Room R/B (Front Side of Left Suspension Tower)
5	23	Engine Room R/B No.4 (Left Side of Air Cleaner)

: Junction Block and Wire Harness Connector

Code	See Page	Junction Block and Wire Harness (Connector Location)
IA	24 (LHD)	Instrument Panel J/B and Instrument Panel Wire (Lower Finish Panel)
IB		
IL	25 (LHD)	Instrument Panel J/B and Engine Room Main Wire (Lower Finish Panel)
3D	28 (LHD)	Center J/B and Instrument Panel Wire (Right Side of Grove Box)
3F		

: Connector Joining Wire Harness and Wire Harness

Code	See Page	Joining Wire Harness and Wire Harness (Connector Location)
ID2	56 (LHD)	Instrument Panel Wire and Engine Room Main Wire (Upper Part of Front Body Pillar LH)
IG1	56 (LHD)	Cowl No.2 Wire and Engine Room Main Wire (Behind the Combination Meter)
IL3	58 (LHD)	Engine Wire and Instrument Panel Wire (Right Kick Panel)

: Ground Points

Code	See Page	Ground Points Location
EA	52 (LHD 1AZ–FE)	Left Radiator Side Support
IC	56 (LHD)	Right Kick Panel

Service Hints

HTR SUB 1 Relay

1–Ground : Approx. **12** volts with the ignition SW at **ON** position
5–Ground : Always approx. **12** volts

HTR SUB 2 Relay

1–Ground : Approx. **12** volts with the ignition SW at **ON** position
5–Ground : Always approx. **12** volts

HTR SUB 3 Relay

1–Ground : Approx. **12** volts with the ignition SW at **ON** position
5–Ground : Always approx. **12** volts

: Parts Location

Code		See Page	Code	See Page	Code	See Page
E8	B	37 (LHD)	J16	38 (LHD)	W1	35 (LHD 1CD–FTV)
E10	C	37 (LHD)	P5	38 (LHD)		

: Relay Blocks

Code	See Page	Relay Blocks (Relay Block Location)
5	23	Engine Room R/B No.4 (Left Side of Air Cleaner)

: Junction Block and Wire Harness Connector

Code	See Page	Junction Block and Wire Harness (Connector Location)
IB	24 (LHD)	Instrument Panel J/B and Instrument Panel Wire (Lower Finish Panel)

: Connector Joining Wire Harness and Wire Harness

Code	See Page	Joining Wire Harness and Wire Harness (Connector Location)
EC1	54 (LHD 1CD–FTV)	Engine Wire and Engine No.4 Wire (Near the Starter Motor)
ID2	56 (LHD)	Instrument Panel Wire and Engine Room Main Wire (Upper Part of Front Body Pillar LH)
IG1	56 (LHD)	Cowl No.2 Wire and Engine Room Main Wire (Behind the Combination Meter)
IH2	58 (LHD)	Instrument Panel Wire and Engine Room Main Wire (Upper Part of Front Body Pillar RH)

Power Window (LHD)

System Outline

The power windows can be operated by the respective switch at the seat or by remote switch (Master SW).

1. Manual UP/DOWN Operation

When the power window SW is pushed up one step, the motor rotates and opens the window. When the power window SW is pulled up one step, the motor rotates and closes the window.

2. Auto UP/DOWN Operation

When the power window SW is pushed up two steps, the motor rotates and opens the window automatically. When the power window SW is pulled up two steps, the motor rotates and closes the window automatically.

3. Respective Seat SW Manual/Auto Operation

The power window can be operated from the switches at respective seats, when the ignition SW is ON or when key–off operation conditions are met.

4. Remote SW Manual/Auto Operation

When the ignition SW is ON or key–off operation conditions are met, all of the power windows can be operated at the remote SW.

Service Hints

D20 Power Window Master SW

20–Ground : Approx. **12** volts with the ignition SW at **ON** position
2–Ground : Always continuity
1–Ground : Approx. **12** volts with the ignition SW on and the master SW at **UP** or **AUTO UP** position
11–Ground : Approx. **12** volts with the ignition SW on and the master SW at **DOWN** or **AUTO DOWN** position

: Parts Location

Code		See Page	Code	See Page	Code		See Page
D19		40 (LHD)	J22	38 (LHD)	P12		41 (LHD)
D20		40 (LHD)	J35	40 (LHD)	P13		41 (LHD)
J1	A	38 (LHD)	P9	41 (LHD)	P14		41 (LHD)
J2	B	38 (LHD)	P10	41 (LHD)	S12	B	39 (LHD)
J16		38 (LHD)	P11	41 (LHD)	S13	A	39 (LHD)

: Junction Block and Wire Harness Connector

Code	See Page	Junction Block and Wire Harness (Connector Location)
IA	24 (LHD)	Instrument Panel J/B and Instrument Panel Wire (Lower Finish Panel)
IB		
IJ		
IM	25 (LHD)	Instrument Panel J/B and Floor Wire (Lower Finish Panel)
3B	28 (LHD)	Center J/B and Instrument Panel Wire (Right Side of Grove Box)
3E		

: Connector Joining Wire Harness and Wire Harness

Code	See Page	Joining Wire Harness and Wire Harness (Connector Location)
IA1	56 (LHD)	Front Door LH Wire and Instrument Panel Wire (Left Kick Panel)
IC2	56 (LHD)	Instrument Panel Wire and Floor Wire (Upper Part of Front Body Pillar LH)
II1	58 (LHD)	Instrument Panel Wire and Floor No.2 Wire (Upper Part of Front Body Pillar RH)
IK1	58 (LHD)	Front Door RH Wire and Instrument Panel Wire (Right Kick Panel)
IM1	58 (LHD)	Floor No.2 Wire and Instrument Panel Wire (Right Kick Panel)
BA1	60 (LHD)	Rear Door LH Wire and Floor Wire (Left Center Pillar)
BB1	60 (LHD)	Rear Door RH Wire and Floor No.2 Wire (Right Center Pillar)

: Ground Points

Code	See Page	Ground Points Location
IC	56 (LHD)	Right Kick Panel
BB	60 (LHD)	Front Side of the Left Quarter Panel
BE	60 (LHD)	Right Quarter Panel

: **Splice Points**

Code	See Page	Wire Harness with Splice Points	Code	See Page	Wire Harness with Splice Points
B3	60 (LHD)	Rear Door RH Wire	B4	60 (LHD)	Rear Door LH Wire

System Outline

The power windows can be operated by the respective switch at the seat or by remote switch (Master SW).

1. Manual UP/DOWN Operation

When the power window SW is pushed up one step, the motor rotates and opens the window. When the power window SW is pulled up one step, the motor rotates and closes the window.

2. Auto UP/DOWN Operation

When the power window SW is pushed up two steps, the motor rotates and opens the window automatically. When the power window SW is pulled up two steps, the motor rotates and closes the window automatically.

3. Respective Seat SW Manual/Auto Operation

The power window can be operated from the switches at respective seats, when the ignition SW is ON or when key–off operation conditions are met.

4. Remote SW Manual/Auto Operation

When the ignition SW is ON or key–off operation conditions are met, all of the power windows can be operated at the remote SW.

Service Hints

D20 Power Window Master SW

20–Ground : Approx. **12** volts with the ignition SW at **ON** position
2–Ground : Always continuity
1–Ground : Approx. **12** volts with the ignition SW on and the master SW at **UP** or **AUTO UP** position
11–Ground : Approx. **12** volts with the ignition SW on and the master SW at **DOWN** or **AUTO DOWN** position

○ : Parts Location

Code	See Page	Code	See Page	Code	See Page
D18	50 (RHD)	J22	48 (RHD)	P11	51 (RHD)
D20	50 (RHD)	J28 A	48 (RHD)	P12	51 (RHD)
J1 A	48 (RHD)	J29 B	48 (RHD)	P13	51 (RHD)
J2 B	48 (RHD)	J35	50 (RHD)	P14	51 (RHD)
J3	48 (RHD)	P9	51 (RHD)		
J16	48 (RHD)	P10	51 (RHD)		

⬭ : Junction Block and Wire Harness Connector

Code	See Page	Junction Block and Wire Harness (Connector Location)
IA	24 (RHD)	Instrument Panel J/B and Instrument Panel Wire (Left Side of Grove Box)
IB		
IJ		
IM	25 (RHD)	Instrument Panel J/B and Floor Wire (Left Side of Grove Box)
3A	28 (RHD)	Center J/B and Instrument Panel Wire (Lower Finish Panel)
3B		
3E	28 (RHD)	Center J/B and Floor No.2 Wire (Lower Finish Panel)
3F	28 (RHD)	Center J/B and Instrument Panel Wire (Lower Finish Panel)

▭ : Connector Joining Wire Harness and Wire Harness

Code	See Page	Joining Wire Harness and Wire Harness (Connector Location)
IA1	68 (RHD)	Front Door RH Wire and Instrument Panel Wire (Right Kick Panel)
IA3		
IC2	66 (RHD)	Instrument Panel Wire and Floor Wire (Upper Part of Front Body Pillar LH)
IK1	66 (RHD)	Front Door LH Wire and Instrument Panel Wire (Left Kick Panel)
IM2	68 (RHD)	Floor No.2 Wire and Instrument Panel Wire (Right Kick Panel)
BA1	70 (RHD)	Rear Door LH Wire and Floor Wire (Left Center Pillar)
BB1	70 (RHD)	Rear Door RH Wire and Floor No.2 Wire (Right Center Pillar)

Power Window (RHD)

: Ground Points

Code	See Page	Ground Points Location
IA	66 (RHD)	Left Kick Panel
IC	66 (RHD)	Right Kick Panel
BB	70 (RHD)	Front Side of the Left Quarter Panel
BE	70 (RHD)	Right Quarter Panel

: Splice Points

Code	See Page	Wire Harness with Splice Points	Code	See Page	Wire Harness with Splice Points
B9	70 (RHD)	Rear Door RH Wire	B10	70 (RHD)	Rear Door LH Wire

Service Hints

R6 (A), R7 (B) Radio and Player

(A) 3–Ground : Approx. **12** volts with the ignition SW at **ACC** or **ON** position
(A) 4–Ground : Always approx. **12** volts
(A) 7–Ground : Always continuity

: Parts Location

Code	See Page	Code	See Page	Code	See Page
F16	40 (LHD)	R7 B	38 (LHD)	T12	41 (LHD)
F17	40 (LHD)	R21	41 (LHD)	T13	41 (LHD)
R6 A	38 (LHD)	R22	41 (LHD)		

: Relay Blocks

Code	See Page	Relay Blocks (Relay Block Location)
2	22	Engine Room R/B (Front Side of Left Suspension Tower)

: Junction Block and Wire Harness Connector

Code	See Page	Junction Block and Wire Harness (Connector Location)
3C	28 (LHD)	Center J/B and Instrument Panel Wire (Right Side of Grove Box)
3J		
3K		

: Connector Joining Wire Harness and Wire Harness

Code	See Page	Joining Wire Harness and Wire Harness (Connector Location)
IA2	56 (LHD)	Front Door LH Wire and Instrument Panel Wire (Left Kick Panel)
IC1	56 (LHD)	Instrument Panel Wire and Floor Wire (Upper Part of Front Body Pillar LH)
IE1	56 (LHD)	Engine Room Main Wire and Floor Wire (Upper Part of Front Body Pillar LH)
IK2	58 (LHD)	Front Door RH Wire and Instrument Panel Wire (Right Kick Panel)
IM1	58 (LHD)	Floor No.2 Wire and Instrument Panel Wire (Right Kick Panel)
BA1	60 (LHD)	Rear Door LH Wire and Floor Wire (Left Center Pillar)
BB1	60 (LHD)	Rear Door RH Wire and Floor No.2 Wire (Right Center Pillar)

: Ground Points

Code	See Page	Ground Points Location
IB	56 (LHD)	Behind the Combination Meter

Radio and Player (LHD w/ Display)

Service Hints

R4 (A), R5 (B), R6 (C), R7 (D) Radio and Player

(A) 7–Ground : Approx. **12** volts with the ignition SW at **ON** position
(A) 18–Ground : Approx. **12** volts with the ignition SW at **ACC** or **ON** position
(C) 3–Ground : Approx. **12** volts with the ignition SW at **ACC** or **ON** position
(C) 4–Ground : Always approx. **12** volts
(A) 8–Ground : Always approx. **12** volts
(C) 7–Ground : Always continuity
(A) 4–Ground : Always continuity
(A) 2–Ground : Always continuity (1CD–FTV)
(A) 1–Ground : Always continuity (1AZ–FE)

: Parts Location

Code	See Page	Code		See Page	Code		See Page
A11	32 (LHD 1AZ–FE)	J5	A	38 (LHD)	R7	D	38 (LHD)
A11	34 (LHD 1CD–FTV)	J6	B	38 (LHD)	R21		41 (LHD)
C8	36 (LHD)	J16		38 (LHD)	R22		41 (LHD)
E8	37 (LHD)	J18		38 (LHD)	S24	A	39 (LHD)
E11	37 (LHD)	R4	A	38 (LHD)	S25	B	39 (LHD)
F16	40 (LHD)	R5	B	38 (LHD)	T12		41 (LHD)
F17	40 (LHD)	R6	C	38 (LHD)	T13		41 (LHD)

: Relay Blocks

Code	See Page	Relay Blocks (Relay Block Location)
2	22	Engine Room R/B (Front Side of Left Suspension Tower)

: Junction Block and Wire Harness Connector

Code	See Page	Junction Block and Wire Harness (Connector Location)
IB	24 (LHD)	Instrument Panel J/B and Instrument Panel Wire (Lower Finish Panel)
IL	25 (LHD)	Instrument Panel J/B and Engine Room Main Wire (Lower Finish Panel)
3C	28 (LHD)	Center J/B and Instrument Panel Wire (Right Side of Grove Box)
3F		
3H		
3J		
3K		

: Connector Joining Wire Harness and Wire Harness

Code	See Page	Joining Wire Harness and Wire Harness (Connector Location)
IA2	56 (LHD)	Front Door LH Wire and Instrument Panel Wire (Left Kick Panel)
IC1	56 (LHD)	Instrument Panel Wire and Floor Wire (Upper Part of Front Body Pillar LH)
IE1	56 (LHD)	Engine Room Main Wire and Floor Wire (Upper Part of Front Body Pillar LH)
IH2	58 (LHD)	Instrument Panel Wire and Engine Room Main Wire (Upper Part of Front Body Pillar RH)
IK2	58 (LHD)	Front Door RH Wire and Instrument Panel Wire (Right Kick Panel)
IL3	58 (LHD)	Engine Wire and Instrument Panel Wire (Right Kick Panel)
IM1	58 (LHD)	Floor No.2 Wire and Instrument Panel Wire (Right Kick Panel)
BA1	60 (LHD)	Rear Door LH Wire and Floor Wire (Left Center Pillar)
BB1	60 (LHD)	Rear Door RH Wire and Floor No.2 Wire (Right Center Pillar)

: Ground Points

Code	See Page	Ground Points Location
IB	56 (LHD)	Behind the Combination Meter
IC	56 (LHD)	Right Kick Panel

Service Hints

R6 (A), R7 (B) Radio and Player

(A) 3–Ground : Approx. **12** volts with the ignition SW at **ACC** or **ON** position
(A) 4–Ground : Always approx. **12** volts
(A) 7–Ground : Always continuity

: Parts Location

Code	See Page	Code		See Page	Code	See Page
F16	50 (RHD)	R6	A	48 (RHD)	R22	51 (RHD)
F17	50 (RHD)	R7	B	48 (RHD)	T12	51 (RHD)
J18	48 (RHD)	R21		51 (RHD)	T13	51 (RHD)

: Relay Blocks

Code	See Page	Relay Blocks (Relay Block Location)
2	22	Engine Room R/B (Front Side of Left Suspension Tower)

: Junction Block and Wire Harness Connector

Code	See Page	Junction Block and Wire Harness (Connector Location)
3A	28 (RHD)	Center J/B and Instrument Panel Wire (Lower Finish Panel)
3I		
3J		

: Connector Joining Wire Harness and Wire Harness

Code	See Page	Joining Wire Harness and Wire Harness (Connector Location)
IA2	68 (RHD)	Front Door RH Wire and Instrument Panel Wire (Right Kick Panel)
IC1	66 (RHD)	Instrument Panel Wire and Floor Wire (Upper Part of Front Body Pillar LH)
IE1	66 (RHD)	Engine Room Main Wire and Floor Wire (Upper Part of Front Body Pillar LH)
IK2	66 (RHD)	Front Door LH Wire and Instrument Panel Wire (Left Kick Panel)
IM1	68 (RHD)	Floor No.2 Wire and Instrument Panel Wire (Right Kick Panel)
BA1	70 (RHD)	Rear Door LH Wire and Floor Wire (Left Center Pillar)
BB1	70 (RHD)	Rear Door RH Wire and Floor No.2 Wire (Right Center Pillar)

: Ground Points

Code	See Page	Ground Points Location
IB	66 (RHD)	Behind the Combination Meter

Radio and Player (RHD w/ Display)

Service Hints

R4 (A), R6 (C), R7 (D) Radio and Player

(A) 7–Ground : Approx. **12** volts with the ignition SW at **ON** position
(A) 18–Ground : Approx. **12** volts with the ignition SW at **ACC** or **ON** position
(C) 3–Ground : Approx. **12** volts with the ignition SW at **ACC** or **ON** position
(C) 4–Ground : Always approx. **12** volts
(A) 8–Ground : Always approx. **12** volts
(C) 7–Ground : Always continuity
(A) 4–Ground : Always continuity
(A) 2–Ground : Always continuity (1CD–FTV)
(A) 1–Ground : Always continuity (1AZ–FE)

○ : Parts Location

Code	See Page	Code	See Page	Code	See Page
A11	42 (RHD 1AZ–FE)	J3	48 (RHD)	R22	51 (RHD)
A11	44 (RHD 1CD–FTV)	J16	48 (RHD)	S34 A	49 (RHD)
C8	46 (RHD)	J18	48 (RHD)	S35 B	49 (RHD)
E8	47 (RHD)	R4 A	48 (RHD)	T12	51 (RHD)
E11	47 (RHD)	R6 C	48 (RHD)	T13	51 (RHD)
F16	50 (RHD)	R7 D	48 (RHD)		
F17	50 (RHD)	R21	51 (RHD)		

⬭ : Relay Blocks

Code	See Page	Relay Blocks (Relay Block Location)
2	22	Engine Room R/B (Front Side of Left Suspension Tower)

⬭ : Junction Block and Wire Harness Connector

Code	See Page	Junction Block and Wire Harness (Connector Location)
IB	24 (RHD)	Instrument Panel J/B and Instrument Panel Wire (Left Side of Grove Box)
IL	25 (RHD)	Instrument Panel J/B and Engine Room Main Wire (Left Side of Grove Box)
3A	28 (RHD)	Center J/B and Instrument Panel Wire (Lower Finish Panel)
3D		
3F		
3H		
3I		
3J		
4B	30 (RHD)	Center J/B No.2 and Instrument Panel Wire (Near the Steering Column)
4E		

▭ : Connector Joining Wire Harness and Wire Harness

Code	See Page	Joining Wire Harness and Wire Harness (Connector Location)
IA2	68 (RHD)	Front Door RH Wire and Instrument Panel Wire (Right Kick Panel)
IC1	66 (RHD)	Instrument Panel Wire and Floor Wire (Upper Part of Front Body Pillar LH)
IE1	66 (RHD)	Engine Room Main Wire and Floor Wire (Upper Part of Front Body Pillar LH)
IH1	68 (RHD)	Instrument Panel Wire and Engine Room Main Wire (Upper Part of Front Body Pillar RH)
IK2	66 (RHD)	Front Door LH Wire and Instrument Panel Wire (Left Kick Panel)
IL1	66 (RHD)	Engine Wire and Instrument Panel Wire (Left Kick Panel)
IM1	68 (RHD)	Floor No.2 Wire and Instrument Panel Wire (Right Kick Panel)
BA1	70 (RHD)	Rear Door LH Wire and Floor Wire (Left Center Pillar)
BB1	70 (RHD)	Rear Door RH Wire and Floor No.2 Wire (Right Center Pillar)

▽ : Ground Points

Code	See Page	Ground Points Location
IB	66 (RHD)	Behind the Combination Meter
IC	66 (RHD)	Right Kick Panel

Service Hints

H15 Heater Control Panel

1–Ground : Always approx. **12** volts

12–Ground : Approx. **12** volts with the ignition SW at **ON** position

R18 Rear Cooler Relay

5–3 : Closed with the rear cooler SW at ON

: Parts Location

Code	See Page	Code	See Page	Code	See Page
H15	37 (LHD)	R13	41 (LHD)	R20	41 (LHD)
J16	38 (LHD)	R18	41 (LHD)		
J35	40 (LHD)	R19	41 (LHD)		

: Relay Blocks

Code	See Page	Relay Blocks (Relay Block Location)
2	22	Engine Room R/B (Front Side of Left Suspension Tower)

: Junction Block and Wire Harness Connector

Code	See Page	Junction Block and Wire Harness (Connector Location)
IB	24 (LHD)	Instrument Panel J/B and Instrument Panel Wire (Lower Finish Panel)
IL	25 (LHD)	Instrument Panel J/B and Engine Room Main Wire (Lower Finish Panel)
3E	28 (LHD)	Center J/B and Instrument Panel Wire (Right Side of Grove Box)
3F		
3K		

: Connector Joining Wire Harness and Wire Harness

Code	See Page	Joining Wire Harness and Wire Harness (Connector Location)
II3	58 (LHD)	Instrument Panel Wire and Floor No.2 Wire (Upper Part of Front Body Pillar RH)
IJ1	58 (LHD)	Engine Room Main Wire and Floor No.2 Wire (Upper Part of Front Body Pillar RH)
IM1	58 (LHD)	Floor No.2 Wire and Instrument Panel Wire (Right Kick Panel)
BD1	60 (LHD)	Roof No.2 Wire and Floor No.2 Wire (Right Quarter Panel)

: Ground Points

Code	See Page	Ground Points Location
IC	56 (LHD)	Right Kick Panel
BD	60 (LHD)	Front Side of the Right Quarter Panel
BE	60 (LHD)	Right Quarter Panel

: Splice Points

Code	See Page	Wire Harness with Splice Points	Code	See Page	Wire Harness with Splice Points
B5	60 (LHD)	Roof No.2 Wire			

Service Hints

R12 Remote Control Mirror SW

8–Ground : Approx. **12** volts with the ignition SW at **ACC** or **ON** position
7–Ground : Always continuity
8–6 : Continuity with the operation SW at **DOWN** or **RIGHT** position
8–7 : Continuity with the operation SW at **UP** or **LEFT** position

: Parts Location

Code		See Page	Code	See Page	Code	See Page
J1	A	38 (LHD)	M1	40 (LHD)	R12	38 (LHD)
J2	B	38 (LHD)	M2	40 (LHD)		

: Junction Block and Wire Harness Connector

Code	See Page	Junction Block and Wire Harness (Connector Location)
IB	24 (LHD)	Instrument Panel J/B and Instrument Panel Wire (Lower Finish Panel)
3A	28 (LHD)	Center J/B and Instrument Panel Wire (Right Side of Grove Box)
3C		
3F		
3K		

: Connector Joining Wire Harness and Wire Harness

Code	See Page	Joining Wire Harness and Wire Harness (Connector Location)
IA1	56 (LHD)	Front Door LH Wire and Instrument Panel Wire (Left Kick Panel)
IK1	58 (LHD)	Front Door RH Wire and Instrument Panel Wire (Right Kick Panel)

: Ground Points

Code	See Page	Ground Points Location
IC	56 (LHD)	Right Kick Panel

Service Hints

R12 Remote Control Mirror SW

8–Ground : Approx. **12** volts with the ignition SW at **ACC** or **ON** position
7–Ground : Always continuity
8–6 : Continuity with the operation SW at **DOWN** or **RIGHT** position
8–7 : Continuity with the operation SW at **UP** or **LEFT** position

: Parts Location

Code		See Page	Code	See Page	Code	See Page
J1	A	48 (RHD)	J3	48 (RHD)	M2	50 (RHD)
J2	B	48 (RHD)	M1	50 (RHD)	R12	48 (RHD)

: Junction Block and Wire Harness Connector

Code	See Page	Junction Block and Wire Harness (Connector Location)
IB	24 (RHD)	Instrument Panel J/B and Instrument Panel Wire (Left Side of Grove Box)
3B	28 (RHD)	Center J/B and Instrument Panel Wire (Lower Finish Panel)
3F		
3G		
3I		

: Connector Joining Wire Harness and Wire Harness

Code	See Page	Joining Wire Harness and Wire Harness (Connector Location)
IA1	68 (RHD)	Front Door RH Wire and Instrument Panel Wire (Right Kick Panel)
IK1	66 (RHD)	Front Door LH Wire and Instrument Panel Wire (Left Kick Panel)

: Ground Points

Code	See Page	Ground Points Location
IC	66 (RHD)	Right Kick Panel

Service Hints

R18 Rear Cooler Relay

5–3 : Closed with the rear cooler SW at ON

: Parts Location

Code	See Page	Code	See Page	Code	See Page
J35	50 (RHD)	R18	51 (RHD)	R20	51 (RHD)
R13	51 (RHD)	R19	51 (RHD)		

: Relay Blocks

Code	See Page	Relay Blocks (Relay Block Location)
2	22	Engine Room R/B (Front Side of Left Suspension Tower)

: Junction Block and Wire Harness Connector

Code	See Page	Junction Block and Wire Harness (Connector Location)
IB	24 (RHD)	Instrument Panel J/B and Instrument Panel Wire (Left Side of Grove Box)
3E	28 (RHD)	Center J/B and Floor No.2 Wire (Lower Finish Panel)
3K	28 (RHD)	Center J/B and Instrument Panel Wire (Lower Finish Panel)

: Connector Joining Wire Harness and Wire Harness

Code	See Page	Joining Wire Harness and Wire Harness (Connector Location)
IJ1	68 (RHD)	Engine Room Main Wire and Floor No.2 Wire (Upper Part of Front Body Pillar RH)
BD1	70 (RHD)	Roof No.2 Wire and Floor No.2 Wire (Right Quarter Panel)

: Ground Points

Code	See Page	Ground Points Location
BD	70 (RHD)	Front Side of the Right Quarter Panel
BE	70 (RHD)	Right Quarter Panel

: Splice Points

Code	See Page	Wire Harness with Splice Points	Code	See Page	Wire Harness with Splice Points
B11	70 (RHD)	Roof No.2 Wire			

System Outline

Low–speed Operation

When the A/C is operated, the fan no.3 relay is activated and the current flows from CDS fuse through the fan no.3 relay (Point side), to condenser fan motor TERMINAL 2, to TERMINAL 1, to fan no.2 relay TERMINAL 3, to TERMINAL 4, radiator fan motor TERMINAL 2, to TERMINAL 1, to GROUND, and the motor rotates at LOW speed.

High–speed Operation

When the pressure SW or water temp. SW (1CD–FTV) is ON the fan no.1 relay, fan no.2 relay, and fan no.3 relay is activated respectively, and the current flows from the CDS fuse through the fan no.3 relay (Point side), to condenser fan motor TERMINAL 2, to TERMINAL 1, to fan no.2 relay TERMINAL 3, to TERMINAL 5 to GROUND. At the same time, the current flows from the RDI fuse through fan no.1 relay (Point side), to radiator fan motor TERMINAL 2, to radiator fan motor TERMINAL 1 to GROUND, and respective motors rotate at high speed.

: Parts Location

Code	See Page	Code	See Page	Code	See Page
A12	36 (LHD)	E9	37 (LHD)	P2	35 (LHD 1CD–FTV)
C3	32 (LHD 1AZ–FE)	J8	38 (LHD)	R1	33 (LHD 1AZ–FE)
	34 (LHD 1CD–FTV)	J15	38 (LHD)		35 (LHD 1CD–FTV)
D4	37 (LHD)	P2	33 (LHD 1AZ–FE)	W2	35 (LHD 1CD–FTV)

: Relay Blocks

Code	See Page	Relay Blocks (Relay Block Location)
2	22	Engine Room R/B (Front Side of Left Suspension Tower)

: Junction Block and Wire Harness Connector

Code	See Page	Junction Block and Wire Harness (Connector Location)
IL	25 (LHD)	Instrument Panel J/B and Engine Room Main Wire (Lower Finish Panel)

: Connector Joining Wire Harness and Wire Harness

Code	See Page	Joining Wire Harness and Wire Harness (Connector Location)
EA1	52 (LHD 1AZ–FE)	Engine Wire and Engine Room Main Wire (Near The Engine Room R/B)
	54 (LHD 1CD–FTV)	
IH2	58 (LHD)	Instrument Panel Wire and Engine Room Main Wire (Upper Part of Front Body Pillar RH)
IL3	58 (LHD)	Engine Wire and Instrument Panel Wire (Right Kick Panel)

: Ground Points

Code	See Page	Ground Points Location
EA	52 (LHD 1AZ–FE)	Left Radiator Side Support
	54 (LHD 1CD–FTV)	
EB	52 (LHD 1AZ–FE)	Right Radiator Side Support
	54 (LHD 1CD–FTV)	

: Splice Points

Code	See Page	Wire Harness with Splice Points	Code	See Page	Wire Harness with Splice Points
E6	52 (LHD 1AZ–FE)	Engine Room Main Wire	E7	52 (LHD 1AZ–FE)	Engine Room Main Wire
	54 (LHD 1CD–FTV)			54 (LHD 1CD–FTV)	

System Outline

Low–speed Operation

When the A/C is operated, the fan no.3 relay is activated and the current flows from CDS fuse through the fan no.3 relay (Point side), to condenser fan motor TERMINAL 2, to TERMINAL 1, to fan no.2 relay TERMINAL 3, to TERMINAL 4, radiator fan motor TERMINAL 2, to TERMINAL 1, to GROUND, and the motor rotates at LOW speed.

High–speed Operation

When the pressure SW or water temp. SW (1CD–FTV) is ON the fan no.1 relay, fan no.2 relay, and fan no.3 relay is activated respectively, and the current flows from the CDS fuse through the fan no.3 relay (Point side), to condenser fan motor TERMINAL 2, to TERMINAL 1, to fan no.2 relay TERMINAL 3, to TERMINAL 5 to GROUND. At the same time, the current flows from the RDI fuse through fan no.1 relay (Point side), to radiator fan motor TERMINAL 2, to radiator fan motor TERMINAL 1 to GROUND, and respective motors rotate at high speed.

: Parts Location

Code	See Page	Code	See Page	Code	See Page
A12	46 (RHD)	E9	47 (RHD)	R1	45 (RHD 1CD–FTV)
C3	42 (RHD 1AZ–FE)	P2	43 (RHD 1AZ–FE)	W2	45 (RHD 1CD–FTV)
	44 (RHD 1CD–FTV)		45 (RHD 1CD–FTV)		
D4	47 (RHD)	R1	43 (RHD 1AZ–FE)		

: Relay Blocks

Code	See Page	Relay Blocks (Relay Block Location)
2	22	Engine Room R/B (Front Side of Left Suspension Tower)

: Junction Block and Wire Harness Connector

Code	See Page	Junction Block and Wire Harness (Connector Location)
IL	25 (RHD)	Instrument Panel J/B and Engine Room Main Wire (Left Side of Grove Box)

: Connector Joining Wire Harness and Wire Harness

Code	See Page	Joining Wire Harness and Wire Harness (Connector Location)
EA1	62 (RHD 1AZ–FE)	Engine Wire and Engine Room Main Wire (Near The Engine Room R/B)
	64 (RHD 1CD–FTV)	
IH2	68 (RHD)	Instrument Panel Wire and Engine Room Main Wire (Upper Part of Front Body Pillar RH)

: Ground Points

Code	See Page	Ground Points Location
EA	62 (RHD 1AZ–FE)	Left Radiator Side Support
	64 (RHD 1CD–FTV)	

: Splice Points

Code	See Page	Wire Harness with Splice Points	Code	See Page	Wire Harness with Splice Points
E16	62 (RHD 1AZ–FE)	Engine Room Main Wire	E17	62 (RHD 1AZ–FE)	Engine Room Main Wire
	64 (RHD 1CD–FTV)			64 (RHD 1CD–FTV)	

System Outline

The rear fog light is turned on when the following conditions are met, and the rear fog light SW is ON.
* Light control SW is at HEAD position
* Light control SW is at TAIL position and the front fog light is ON

The rear fog light is turned off when the rear fog light SW is turned ON again or the light control SW is turned OFF.

Service Hints

B10 Body ECU

3–Ground : Always approx. **12** volts
4–Ground : Approx. **12** volts with the ignition SW at **ON** position

: Parts Location

Code	See Page	Code	See Page	Code	See Page
B10 A	36 (LHD)	J36 A	40 (LHD)	S16 A	39 (LHD)
C8	36 (LHD)	J37 B	40 (LHD)	S17 B	39 (LHD)
C12	36 (LHD)	R15	41 (LHD)	S22 A	39 (LHD)
F15	37 (LHD)	R17	41 (LHD)	S23 B	39 (LHD)
J3	38 (LHD)	S14 A	39 (LHD)		
J7	38 (LHD)	S15 B	39 (LHD)		

: Relay Blocks

Code	See Page	Relay Blocks (Relay Block Location)
2	22	Engine Room R/B (Front Side of Left Suspension Tower)

: Junction Block and Wire Harness Connector

Code	See Page	Junction Block and Wire Harness (Connector Location)
IA	24 (LHD)	Instrument Panel J/B and Instrument Panel Wire (Lower Finish Panel)
IB		
IL	25 (LHD)	Instrument Panel J/B and Engine Room Main Wire (Lower Finish Panel)
IM	25 (LHD)	Instrument Panel J/B and Floor Wire (Lower Finish Panel)
3F	28 (LHD)	Center J/B and Instrument Panel Wire (Right Side of Grove Box)
3H		
3I		
3K		

: Connector Joining Wire Harness and Wire Harness

Code	See Page	Joining Wire Harness and Wire Harness (Connector Location)
IC3	56 (LHD)	Instrument Panel Wire and Floor Wire (Upper Part of Front Body Pillar LH)
ID2	56 (LHD)	Instrument Panel Wire and Engine Room Main Wire (Upper Part of Front Body Pillar LH)
BC1	60 (LHD)	Back Door No.1 Wire and Floor Wire (Upper Part of Left Quarter Panel)
BE1	60 (LHD)	Back Door No.1 Wire and Back Door No.2 Wire (Back Door Left)

: Ground Points

Code	See Page	Ground Points Location
IA	56 (LHD)	Left Kick Panel
IC	56 (LHD)	Right Kick Panel
BF	60 (LHD)	Center of the Back Door Panel

System Outline

The rear fog light is turned on when the following conditions are met, and the rear fog light SW is ON.
* Light control SW is at HEAD position
* Light control SW is at TAIL position and the front fog light is ON

The rear fog light is turned off when the rear fog light SW is turned ON again or the light control SW is turned OFF.

Service Hints

B10 Body ECU

3–Ground : Always approx. **12** volts
4–Ground : Approx. **12** volts with the ignition SW at **ON** position

: Parts Location

Code		See Page	Code		See Page	Code		See Page
B10	A	46 (RHD)	J7		48 (RHD)	S16	A	49 (RHD)
C8		46 (RHD)	J16		48 (RHD)	S17	B	49 (RHD)
C12	A	46 (RHD)	J36	A	50 (RHD)	S32	A	49 (RHD)
	B	46 (RHD)	J37	B	50 (RHD)	S33	B	49 (RHD)
F15		47 (RHD)	R15		51 (RHD)			
J3		48 (RHD)	R17		51 (RHD)			

: Relay Blocks

Code	See Page	Relay Blocks (Relay Block Location)
2	22	Engine Room R/B (Front Side of Left Suspension Tower)

: Junction Block and Wire Harness Connector

Code	See Page	Junction Block and Wire Harness (Connector Location)
IA	24 (RHD)	Instrument Panel J/B and Instrument Panel Wire (Left Side of Grove Box)
IB		
IL	25 (RHD)	Instrument Panel J/B and Engine Room Main Wire (Left Side of Grove Box)
IM	25 (RHD)	Instrument Panel J/B and Floor Wire (Left Side of Grove Box)
3F	28 (RHD)	Center J/B and Instrument Panel Wire (Lower Finish Panel)
3H		
3K		

: Connector Joining Wire Harness and Wire Harness

Code	See Page	Joining Wire Harness and Wire Harness (Connector Location)
IC3	66 (RHD)	Instrument Panel Wire and Floor Wire (Upper Part of Front Body Pillar LH)
ID2	66 (RHD)	Instrument Panel Wire and Engine Room Main Wire (Upper Part of Front Body Pillar LH)
BC1	70 (RHD)	Back Door No.1 Wire and Floor Wire (Upper Part of Left Quarter Panel)
BE1	70 (RHD)	Back Door No.1 Wire and Back Door No.2 Wire (Back Door Left)

: Ground Points

Code	See Page	Ground Points Location
IC	66 (RHD)	Right Kick Panel
BF	70 (RHD)	Center of the Back Door Panel

Service Hints

R11 Rear Heater SW

6–Ground : Approx. **12** volts with the ignition SW at **ON** position

3–Ground : Always continuity

: Parts Location

Code	See Page	Code	See Page	Code	See Page
D5	37 (LHD)	J22	38 (LHD)	R9	38 (LHD)
J4	38 (LHD)	J35	40 (LHD)	R10	38 (LHD)
J16	38 (LHD)	R8	38 (LHD)	R11	38 (LHD)

: Junction Block and Wire Harness Connector

Code	See Page	Junction Block and Wire Harness (Connector Location)
IA	24 (LHD)	Instrument Panel J/B and Instrument Panel Wire (Lower Finish Panel)
IB		
3B	28 (LHD)	Center J/B and Instrument Panel Wire (Right Side of Grove Box)
3E		
3K		

: Connector Joining Wire Harness and Wire Harness

Code	See Page	Joining Wire Harness and Wire Harness (Connector Location)
II1	58 (LHD)	Instrument Panel Wire and Floor No.2 Wire (Upper Part of Front Body Pillar RH)
II2		
IM1	58 (LHD)	Floor No.2 Wire and Instrument Panel Wire (Right Kick Panel)

: Ground Points

Code	See Page	Ground Points Location
IC	56 (LHD)	Right Kick Panel
BE	60 (LHD)	Right Quarter Panel

Service Hints

R11 Rear Heater SW

6–Ground : Approx. **12** volts with the ignition SW at **ON** position

3–Ground : Always continuity

: Parts Location

Code	See Page	Code	See Page	Code	See Page
D5	47 (RHD)	R8	48 (RHD)	R10	48 (RHD)
J3	48 (RHD)	R9	48 (RHD)	R11	48 (RHD)

: Junction Block and Wire Harness Connector

Code	See Page	Junction Block and Wire Harness (Connector Location)
IA	24 (RHD)	Instrument Panel J/B and Instrument Panel Wire (Left Side of Grove Box)
IB		
3B	28 (RHD)	Center J/B and Instrument Panel Wire (Lower Finish Panel)
3E	28 (RHD)	Center J/B and Floor No.2 Wire (Lower Finish Panel)
3F	28 (RHD)	Center J/B and Instrument Panel Wire (Lower Finish Panel)
3G		
3K		

: Connector Joining Wire Harness and Wire Harness

Code	See Page	Joining Wire Harness and Wire Harness (Connector Location)
II3	68 (RHD)	Instrument Panel Wire and Floor No.2 Wire (Upper Part of Front Body Pillar RH)
IM2	68 (RHD)	Floor No.2 Wire and Instrument Panel Wire (Right Kick Panel)

: Ground Points

Code	See Page	Ground Points Location
IC	66 (RHD)	Right Kick Panel

Service Hints

RR DEF Relay

5–3 : Closed with the defogger SW at ON

: Parts Location

Code	See Page	Code	See Page	Code		See Page
H15	37 (LHD)	J22	38 (LHD)	R25	B	41 (LHD)
J1	38 (LHD)	M1	40 (LHD)	R26	A	41 (LHD)
J16	38 (LHD)	M2	40 (LHD)			

: Relay Blocks

Code	See Page	Relay Blocks (Relay Block Location)
2	22	Engine Room R/B (Front Side of Left Suspension Tower)

: Junction Block and Wire Harness Connector

Code	See Page	Junction Block and Wire Harness (Connector Location)
IA	24 (LHD)	Instrument Panel J/B and Instrument Panel Wire (Lower Finish Panel)
IB		
IM	25 (LHD)	Instrument Panel J/B and Floor Wire (Lower Finish Panel)
IN	25 (LHD)	Instrument Panel J/B and Engine Room Main Wire (Lower Finish Panel)
3B	28 (LHD)	Center J/B and Instrument Panel Wire (Right Side of Grove Box)
3F		
3K		

: Connector Joining Wire Harness and Wire Harness

Code	See Page	Joining Wire Harness and Wire Harness (Connector Location)
IA1	56 (LHD)	Front Door LH Wire and Instrument Panel Wire (Left Kick Panel)
IK1	58 (LHD)	Front Door RH Wire and Instrument Panel Wire (Right Kick Panel)
BC1	60 (LHD)	Back Door No.1 Wire and Floor Wire (Upper Part of Left Quarter Panel)

: Ground Points

Code	See Page	Ground Points Location
IC	56 (LHD)	Right Kick Panel
BF	60 (LHD)	Center of the Back Door Panel

Service Hints

RR DEF Relay

5–3 : Closed with the defogger SW at ON

: Parts Location

Code		See Page	Code	See Page	Code		See Page
H15		47 (RHD)	J16	48 (RHD)	R25	B	51 (RHD)
J1	A	48 (RHD)	J22	48 (RHD)	R26	A	51 (RHD)
J2	B	48 (RHD)	M1	50 (RHD)			
J3		48 (RHD)	M2	50 (RHD)			

: Relay Blocks

Code	See Page	Relay Blocks (Relay Block Location)
2	22	Engine Room R/B (Front Side of Left Suspension Tower)

: Junction Block and Wire Harness Connector

Code	See Page	Junction Block and Wire Harness (Connector Location)
IA	24 (RHD)	Instrument Panel J/B and Instrument Panel Wire (Left Side of Grove Box)
IB		
IM	25 (RHD)	Instrument Panel J/B and Floor Wire (Left Side of Grove Box)
IN	25 (RHD)	Instrument Panel J/B and Engine Room Main Wire (Left Side of Grove Box)
3B	28 (RHD)	Center J/B and Instrument Panel Wire (Lower Finish Panel)
3F		
3J		
3K		
4A	30 (RHD)	Center J/B No.2 and Instrument Panel Wire (Near the Steering Column)
4B		

: Connector Joining Wire Harness and Wire Harness

Code	See Page	Joining Wire Harness and Wire Harness (Connector Location)
IA1	68 (RHD)	Front Door RH Wire and Instrument Panel Wire (Right Kick Panel)
BC1	70 (RHD)	Back Door No.1 Wire and Floor Wire (Upper Part of Left Quarter Panel)

: Ground Points

Code	See Page	Ground Points Location
IA	66 (RHD)	Left Kick Panel
IC	66 (RHD)	Right Kick Panel
BF	70 (RHD)	Center of the Back Door Panel

Service Hints

R2 Rear Washer Motor

2–Ground : Approx. **12** volts with the ignition SW at **ON** position
1–Ground : Continuity with washer SW turned on

R27 Rear Wiper Motor and Rear Wiper Relay

3–Ground : Approx. **12** volts with the ignition SW at **ON** position
2–Ground : Continuity with rear wiper SW at **INT** position
1–Ground : Continuity with rear wiper SW at **LO** position

: Parts Location

Code	See Page	Code	See Page	Code	See Page
C10	36 (LHD)	J24 B	38 (LHD)	R27	41 (LHD)
J3	38 (LHD)	R2	33 (LHD 1AZ–FE)		
J23 A	38 (LHD)		35 (LHD 1CD–FTV)		

: Junction Block and Wire Harness Connector

Code	See Page	Junction Block and Wire Harness (Connector Location)
IL	25 (LHD)	Instrument Panel J/B and Engine Room Main Wire (Lower Finish Panel)
IM	25 (LHD)	Instrument Panel J/B and Floor Wire (Lower Finish Panel)

: Connector Joining Wire Harness and Wire Harness

Code	See Page	Joining Wire Harness and Wire Harness (Connector Location)
IC3	56 (LHD)	Instrument Panel Wire and Floor Wire (Upper Part of Front Body Pillar LH)
BC1	60 (LHD)	Back Door No.1 Wire and Floor Wire (Upper Part of Left Quarter Panel)
BE1	60 (LHD)	Back Door No.1 Wire and Back Door No.2 Wire (Back Door Left)

: Ground Points

Code	See Page	Ground Points Location
IA	56 (LHD)	Left Kick Panel

Service Hints

R2 Rear Washer Motor

2–Ground : Approx. **12** volts with the ignition SW at **ON** position
1–Ground : Continuity with washer SW turned on

R27 Rear Wiper Motor and Rear Wiper Relay

3–Ground : Approx. **12** volts with the ignition SW at **ON** position
2–Ground : Continuity with rear wiper SW at **INT** position
1–Ground : Continuity with rear wiper SW at **LO** position

: Parts Location

Code		See Page	Code		See Page	Code	See Page
C10	B	46 (RHD)	J23	A	48 (RHD)	R2	45 (RHD 1CD–FTV)
	A	46 (RHD)	J24	B	48 (RHD)	R27	51 (RHD)
J3		48 (RHD)	R2		43 (RHD 1AZ–FE)		

: Junction Block and Wire Harness Connector

Code	See Page	Junction Block and Wire Harness (Connector Location)
IL	25 (RHD)	Instrument Panel J/B and Engine Room Main Wire (Left Side of Grove Box)
IM	25 (RHD)	Instrument Panel J/B and Floor Wire (Left Side of Grove Box)
3F	28 (RHD)	Center J/B and Instrument Panel Wire (Lower Finish Panel)

: Connector Joining Wire Harness and Wire Harness

Code	See Page	Joining Wire Harness and Wire Harness (Connector Location)
IC3	66 (RHD)	Instrument Panel Wire and Floor Wire (Upper Part of Front Body Pillar LH)
BC1	70 (RHD)	Back Door No.1 Wire and Floor Wire (Upper Part of Left Quarter Panel)
BE1	70 (RHD)	Back Door No.1 Wire and Back Door No.2 Wire (Back Door Left)

: Ground Points

Code	See Page	Ground Points Location
IC	66 (RHD)	Right Kick Panel

System Outline

When the driver's seat belt is not fastened with the ignition SW being on, the seat belt warning light comes on.

Service Hints

B11 Buckle SW RH

1–2 : Open with driver's seat belt in use

○ : Parts Location

Code	See Page	Code	See Page	Code		See Page
B11	46 (RHD)	J3	48 (RHD)	S32	A	49 (RHD)
C8	46 (RHD)	J16	48 (RHD)	S33	B	49 (RHD)

⬭ : Junction Block and Wire Harness Connector

Code	See Page	Junction Block and Wire Harness (Connector Location)
IB	24 (RHD)	Instrument Panel J/B and Instrument Panel Wire (Left Side of Grove Box)
3E	28 (RHD)	Center J/B and Floor No.2 Wire (Lower Finish Panel)
3F	28 (RHD)	Center J/B and Instrument Panel Wire (Lower Finish Panel)

▭ : Connector Joining Wire Harness and Wire Harness

Code	See Page	Joining Wire Harness and Wire Harness (Connector Location)
II3	68 (RHD)	Instrument Panel Wire and Floor No.2 Wire (Upper Part of Front Body Pillar RH)

▽ : Ground Points

Code	See Page	Ground Points Location
IC	66 (RHD)	Right Kick Panel

Service Hints

S10, S11 Seat Heater SW LH, RH

4–Ground : Approx. **12** volts with the ignition SW at **ON** position

6–Ground : Always continuity

: Parts Location

Code	See Page	Code	See Page	Code		See Page
J10	38 (LHD)	S8	39 (LHD)	S11		39 (LHD)
J32	40 (LHD)	S9	39 (LHD)	S12	B	39 (LHD)
J35	40 (LHD)	S10	39 (LHD)	S13	A	39 (LHD)

: Junction Block and Wire Harness Connector

Code	See Page	Junction Block and Wire Harness (Connector Location)
IA	24 (LHD)	Instrument Panel J/B and Instrument Panel Wire (Lower Finish Panel)
3A	28 (LHD)	Center J/B and Instrument Panel Wire (Right Side of Grove Box)
3F		

: Connector Joining Wire Harness and Wire Harness

Code	See Page	Joining Wire Harness and Wire Harness (Connector Location)
IC2	56 (LHD)	Instrument Panel Wire and Floor Wire (Upper Part of Front Body Pillar LH)
II1	58 (LHD)	Instrument Panel Wire and Floor No.2 Wire (Upper Part of Front Body Pillar RH)

: Ground Points

Code	See Page	Ground Points Location
IC	56 (LHD)	Right Kick Panel
BC	60 (LHD)	Left Quarter Panel
BE	60 (LHD)	Right Quarter Panel

Starting and Ignition (LHD 1AZ–FE)

Service Hints

I14 Ignition SW

7–8 : Closed with the ignition SW at **ST** position
7–6 : Closed with the ignition SW at **ON** or **ST** position

ST Relay

5–3 : Closed with the neutral start SW **P** or **N** position and the ignition SW at **ST** position

S4 (A), S5 (B) Starter

Points closed with the neutral start SW **P** or **N** position and the ignition SW at **ST** position (A/T)
Points closed with the ignition SW at **ST** position (M/T)

A2 Neutral Start SW

9–6 : Closed with the shift lever in **P** or **N** position

IG2 Relay

5–3 : Closed with the ignition SW at **ON** or **ST** position

: Parts Location

Code		See Page	Code	See Page	Code		See Page
A2		32 (LHD 1AZ–FE)	I2	33 (LHD 1AZ–FE)	N1		33 (LHD 1AZ–FE)
E7	A	37 (LHD)	I3	33 (LHD 1AZ–FE)	S4	A	33 (LHD 1AZ–FE)
E8	B	37 (LHD)	I4	33 (LHD 1AZ–FE)			35 (LHD 1CD–FTV)
E11	E	37 (LHD)	I14	37 (LHD)	S5	B	33 (LHD 1AZ–FE)
I1		33 (LHD 1AZ–FE)	J19	38 (LHD)			35 (LHD 1CD–FTV)

: Relay Blocks

Code	See Page	Relay Blocks (Relay Block Location)
2	22	Engine Room R/B (Front Side of Left Suspension Tower)
7	23	Engine Room R/B No.2 (Front Side of Left Suspension Tower)

: Junction Block and Wire Harness Connector

Code	See Page	Junction Block and Wire Harness (Connector Location)
IC	24 (LHD)	Instrument Panel J/B and Instrument Panel Wire (Lower Finish Panel)
IH		
IL	25 (LHD)	Instrument Panel J/B and Engine Room Main Wire (Lower Finish Panel)
IN		
IP		

: Connector Joining Wire Harness and Wire Harness

Code	See Page	Joining Wire Harness and Wire Harness (Connector Location)
EA1	52 (LHD 1AZ–FE)	Engine Wire and Engine Room Main Wire (Near The Engine Room R/B)
	54 (LHD 1CD–FTV)	
ID3	56 (LHD)	Instrument Panel Wire and Engine Room Main Wire (Upper Part of Front Body Pillar LH)
IL3	58 (LHD)	Engine Wire and Instrument Panel Wire (Right Kick Panel)

: Ground Points

Code	See Page	Ground Points Location
EA	52 (LHD 1AZ–FE)	Left Radiator Side Support
	54 (LHD 1CD–FTV)	
EC	52 (LHD 1AZ–FE)	Intake Side of Cylinder Block
ED	52 (LHD 1AZ–FE)	Left Side of Cylinder Block

: Splice Points

Code	See Page	Wire Harness with Splice Points	Code	See Page	Wire Harness with Splice Points
E3	52 (LHD 1AZ–FE)	Engine Wire			

Starting and Ignition (RHD 1AZ–FE)

Service Hints

I14 Ignition SW

7–8 : Closed with the ignition SW at **ST** position
7–6 : Closed with the ignition SW at **ON** or **ST** position

ST Relay

5–3 : Closed with the neutral start SW **P** or **N** position and the ignition SW at **ST** position

S4 (A), S5 (B) Starter

Points closed with the neutral start SW **P** or **N** position and the ignition SW at **ST** position (A/T)
Points closed with the ignition SW at **ST** position (M/T)

A2 Neutral Start SW

9–6 : Closed with the shift lever in **P** or **N** position

IG2 Relay

5–3 : Closed with the ignition SW at **ON** or **ST** position

: Parts Location

Code		See Page	Code		See Page	Code		See Page
A2		42 (RHD 1AZ–FE)	I3		43 (RHD 1AZ–FE)	S5	B	43 (RHD 1AZ–FE)
E7	A	47 (RHD)	I4		43 (RHD 1AZ–FE)			45 (RHD 1CD–FTV)
E8	B	47 (RHD)	I14		47 (RHD)	S28	A	49 (RHD)
E11	E	47 (RHD)	N1		43 (RHD 1AZ–FE)	S29	B	49 (RHD)
I1		43 (RHD 1AZ–FE)	S4	A	43 (RHD 1AZ–FE)			
I2		43 (RHD 1AZ–FE)			45 (RHD 1CD–FTV)			

: Relay Blocks

Code	See Page	Relay Blocks (Relay Block Location)
2	22	Engine Room R/B (Front Side of Left Suspension Tower)
7	23	Engine Room R/B No.2 (Front Side of Left Suspension Tower)

: Junction Block and Wire Harness Connector

Code	See Page	Junction Block and Wire Harness (Connector Location)
IC	24 (RHD)	Instrument Panel J/B and Engine Wire (Left Side of Grove Box)
IH	24 (RHD)	Instrument Panel J/B and Instrument Panel Wire (Left Side of Grove Box)
IL	25 (RHD)	Instrument Panel J/B and Engine Room Main Wire (Left Side of Grove Box)
IN		
IP		

: Connector Joining Wire Harness and Wire Harness

Code	See Page	Joining Wire Harness and Wire Harness (Connector Location)
EA1	62 (RHD 1AZ–FE)	Engine Wire and Engine Room Main Wire (Near The Engine Room R/B)
	64 (RHD 1CD–FTV)	
IL3	66 (RHD)	Engine Wire and Instrument Panel Wire (Left Kick Panel)

: Ground Points

Code	See Page	Ground Points Location
EA	62 (RHD 1AZ–FE)	Left Radiator Side Support
	64 (RHD 1CD–FTV)	
ED	62 (RHD 1AZ–FE)	Left Side of Cylinder Block

: Splice Points

Code	See Page	Wire Harness with Splice Points	Code	See Page	Wire Harness with Splice Points
E13	62 (RHD 1AZ–FE)	Engine Wire	E17	62 (RHD 1AZ–FE)	Engine Room Main Wire
E14				64 (RHD 1CD–FTV)	

Service Hints

S38 Stop Light SW

2–1 : Closed with the brake pedal depresses

: Parts Location

Code		See Page	Code		See Page	Code	See Page
H16		40 (LHD)	J33	A	40 (LHD)	R16	41 (LHD)
J23	A	38 (LHD)	J34	B	40 (LHD)	S38	39 (LHD)
J24	B	38 (LHD)	R14		41 (LHD)		

: Junction Block and Wire Harness Connector

Code	See Page	Junction Block and Wire Harness (Connector Location)
IA	24 (LHD)	Instrument Panel J/B and Instrument Panel Wire (Lower Finish Panel)
IL	25 (LHD)	Instrument Panel J/B and Engine Room Main Wire (Lower Finish Panel)
IM	25 (LHD)	Instrument Panel J/B and Floor Wire (Lower Finish Panel)

: Connector Joining Wire Harness and Wire Harness

Code	See Page	Joining Wire Harness and Wire Harness (Connector Location)
BC1	60 (LHD)	Back Door No.1 Wire and Floor Wire (Upper Part of Left Quarter Panel)

: Ground Points

Code	See Page	Ground Points Location
BB	60 (LHD)	Front Side of the Left Quarter Panel

Service Hints

S38 Stop Light SW

2–1 : Closed with the brake pedal depresses

: Parts Location

Code	See Page	Code	See Page	Code	See Page
H16	50 (RHD)	J37 B	50 (RHD)	R17	51 (RHD)
J33 A	50 (RHD)	R14	51 (RHD)	S38	49 (RHD)
J34 B	50 (RHD)	R15	51 (RHD)		
J36 A	50 (RHD)	R16	51 (RHD)		

: Junction Block and Wire Harness Connector

Code	See Page	Junction Block and Wire Harness (Connector Location)
IA	24 (RHD)	Instrument Panel J/B and Instrument Panel Wire (Left Side of Grove Box)
IM	25 (RHD)	Instrument Panel J/B and Floor Wire (Left Side of Grove Box)

: Connector Joining Wire Harness and Wire Harness

Code	See Page	Joining Wire Harness and Wire Harness (Connector Location)
BC1	70 (RHD)	Back Door No.1 Wire and Floor Wire (Upper Part of Left Quarter Panel)
BC2		
BE1	70 (RHD)	Back Door No.1 Wire and Back Door No.2 Wire (Back Door Left)

: Ground Points

Code	See Page	Ground Points Location
BB	70 (RHD)	Front Side of the Left Quarter Panel
BF	70 (RHD)	Center of the Back Door Panel

NOTICE: When inspecting or repairing the SRS, perform the operation in accordance with the following precautionary instructions and the procedure and precautions in the Repair Manual for the applicable model year.

- Malfunction symptoms of the SRS are difficult to confirm, so the DTCs become the most important source of information when troubleshooting. When troubleshooting the SRS, always inspect the DTCs before disconnecting the battery.
- **Work must be started after 90 seconds from when the ignition switch is turned to the "LOCK" position and the negative (–) terminal cable is disconnected from the battery.**
  (The SRS is equipped with a back–up power source so that if work is started within 90 seconds from disconnecting the negative (–) terminal cable of the battery, the SRS may be deployed.)
- When the negative (–) terminal cable is disconnected from the battery, the memory of the clock and audio system will be canceled. So before starting work, make a record of the contents memorized in the audio memory system. When work is finished, reset the audio systems as they were before and adjust the clock. To avoid erasing the memory in each memory system, never use a back–up power supply from outside the vehicle.
- Before repairs, remove the airbag sensor if shocks are likely to be applied to the sensor during repairs.
- Do not expose the steering wheel pad, front passenger airbag assembly, side airbag assembly, curtain shield airbag assembly, seat belt pretensioner, airbag sensor assembly or side airbag sensor assembly directly to hot air or flames.
- Even in cases of a minor collision where the SRS does not deploy, the steering wheel pad, front passenger airbag assembly, side airbag assembly, curtain shield airbag assembly, seat belt pretensioner, airbag sensor assembly and side airbag sensor assembly should be inspected.
- Never use SRS parts from another vehicle. When replacing parts, replace them with new parts.
- Never disassemble and repair the steering wheel pad, front passenger airbag assembly, side airbag assembly, curtain shield airbag assembly, seat belt pretensioner, airbag sensor assembly or side airbag sensor assembly in order to reuse it.
- If the steering wheel pad, front passenger airbag assembly, side airbag assembly, curtain shield airbag assembly, seat belt pretensioner, airbag sensor assembly or side airbag sensor assembly has been dropped, or if there are cracks, dents or other defects in the case, bracket or connector, replace them with new ones.
- Use a volt/ohmmeter with high impedance (10 kΩ/V minimum) for troubleshooting the system's electrical circuits.
- Information labels are attached to the periphery of the SRS components. Follow the instructions on the notices.
- After work on the SRS is completed, perform the SRS warning light check.
- If the vehicle is equipped with a mobile communication system, refer to the precaution in the IN section of the Repair Manual.

SRS (LHD)

System Outline

The SRS is a driver and front passenger protection device which has a supplemental role to the seat belts.
When the ignition SW is turned to ON, current from the SRS–IG and IGN fuse flows to TERMINALS (B) 6 and (B) 5 of the airbag sensor assembly.
If an accident occurs while driving, when the frontal impact exceeds a set level, current from the SRS–IG or IGN fuse flows to TERMINALS (B) 14, (B) 10, (A) 2 and (C) 5 of the airbag sensor assembly to TERMINAL 1 of the airbag squibs and TERMINAL 1 of the pretensioners to TERMINAL 2 of the airbag squibs and TERMINAL 2 of the pretensioners to TERMINALS (B) 13, (B) 11, (A) 1 and (C) 6 of the airbag sensor assembly to TERMINALS (B) 28, (B) 27 or BODY GROUND to GROUND, so that current flows to the front airbag squibs and the pretensioners and causes them to operate.
When the side impact also exceeds a set level, the current from the SRS–IG or IGN fuse flows to TERMINALS (A) 6, (C) 1, (A) 3 and (C) 4 of the airbag sensor assembly to the side airbag squibs and the curtain airbag squibs to TERMINALS (A) 5, (C) 2, (A) 4 and (C) 3 of the airbag sensor assembly to TERMINAL (B) 27, (B) 28 or BODY GROUND to GROUND, causing side airbag squibs and curtain airbag squibs to operate.
The airbag stored inside the steering wheel pad is instantaneously expanded to soften the shock to the driver.
The airbag stored inside the passenger's instrument panel is instantaneously expanded to soften the shock to the front passenger.
Side airbags are instantaneously expanded to soften the shock of side to the driver and front passenger.
The curtain shield airbag can ease an impact on the head of the driver and front passenger and reduce risks of injury.
The pretensioners make sure of the seat belt restrainability.

: Parts Location

Code	See Page	Code	See Page	Code	See Page
A6	32 (LHD 1AZ–FE)	C9 B	36 (LHD)	J16	38 (LHD)
	34 (LHD 1CD–FTV)	C13	40 (LHD)	P15	41 (LHD)
A7	32 (LHD 1AZ–FE)	C14	40 (LHD)	P16	41 (LHD)
	34 (LHD 1CD–FTV)	D6	37 (LHD)	S16 A	39 (LHD)
A20 A	36 (LHD)	E7	37 (LHD)	S36	39 (LHD)
A21 B	36 (LHD)	F19	37 (LHD)	S37	39 (LHD)
A22 C	36 (LHD)	J5 A	38 (LHD)	S39	41 (LHD)
A23	36 (LHD)	J6 B	38 (LHD)	S40	41 (LHD)
A24	36 (LHD)	J13 A	38 (LHD)	S43 A	39 (LHD)
C8 A	36 (LHD)	J14 B	38 (LHD)	S44 B	39 (LHD)

: Junction Block and Wire Harness Connector

Code	See Page	Junction Block and Wire Harness (Connector Location)
IA	24 (LHD)	Instrument Panel J/B and Instrument Panel Wire (Lower Finish Panel)
IB		
ID		
IJ		

: Connector Joining Wire Harness and Wire Harness

Code	See Page	Joining Wire Harness and Wire Harness (Connector Location)
ID1	56 (LHD)	Instrument Panel Wire and Engine Room Main Wire (Upper Part of Front Body Pillar LH)

: Ground Points

Code	See Page	Ground Points Location
IA	56 (LHD)	Left Kick Panel

NOTICE: When inspecting or repairing the SRS, perform the operation in accordance with the following precautionary instructions and the procedure and precautions in the Repair Manual for the applicable model year.

- Malfunction symptoms of the SRS are difficult to confirm, so the DTCs become the most important source of information when troubleshooting. When troubleshooting the SRS, always inspect the DTCs before disconnecting the battery.
- **Work must be started after 90 seconds from when the ignition switch is turned to the "LOCK" position and the negative (–) terminal cable is disconnected from the battery.**
  (The SRS is equipped with a back–up power source so that if work is started within 90 seconds from disconnecting the negative (–) terminal cable of the battery, the SRS may be deployed.)
- When the negative (–) terminal cable is disconnected from the battery, the memory of the clock and audio system will be canceled. So before starting work, make a record of the contents memorized in the audio memory system. When work is finished, reset the audio systems as they were before and adjust the clock. To avoid erasing the memory in each memory system, never use a back–up power supply from outside the vehicle.
- Before repairs, remove the airbag sensor if shocks are likely to be applied to the sensor during repairs.
- Do not expose the steering wheel pad, front passenger airbag assembly, side airbag assembly, curtain shield airbag assembly, seat belt pretensioner, airbag sensor assembly or side airbag sensor assembly directly to hot air or flames.
- Even in cases of a minor collision where the SRS does not deploy, the steering wheel pad, front passenger airbag assembly, side airbag assembly, curtain shield airbag assembly, seat belt pretensioner, airbag sensor assembly and side airbag sensor assembly should be inspected.
- Never use SRS parts from another vehicle. When replacing parts, replace them with new parts.
- Never disassemble and repair the steering wheel pad, front passenger airbag assembly, side airbag assembly, curtain shield airbag assembly, seat belt pretensioner, airbag sensor assembly or side airbag sensor assembly in order to reuse it.
- If the steering wheel pad, front passenger airbag assembly, side airbag assembly, curtain shield airbag assembly, seat belt pretensioner, airbag sensor assembly or side airbag sensor assembly has been dropped, or if there are cracks, dents or other defects in the case, bracket or connector, replace them with new ones.
- Use a volt/ohmmeter with high impedance (10 kΩ/V minimum) for troubleshooting the system's electrical circuits.
- Information labels are attached to the periphery of the SRS components. Follow the instructions on the notices.
- After work on the SRS is completed, perform the SRS warning light check.
- If the vehicle is equipped with a mobile communication system, refer to the precaution in the IN section of the Repair Manual.

SRS (RHD)

System Outline

The SRS is a driver and front passenger protection device which has a supplemental role to the seat belts.
When the ignition SW is turned to ON, current from the SRS–IG and IGN fuse flows to TERMINALS (B) 6 and (B) 5 of the airbag sensor assembly.
If an accident occurs while driving, when the frontal impact exceeds a set level, current from the SRS–IG or IGN fuse flows to TERMINALS (B) 14, (B) 10, (A) 2 and (C) 5 of the airbag sensor assembly to TERMINAL 1 of the airbag squibs and TERMINAL 1 of the pretensioners to TERMINAL 2 of the airbag squibs and TERMINAL 2 of the pretensioners to TERMINALS (B) 13, (B) 11, (A) 1 and (C) 6 of the airbag sensor assembly to TERMINALS (B) 28, (B) 27 or BODY GROUND to GROUND, so that current flows to the front airbag squibs and the pretensioners and causes them to operate.
When the side impact also exceeds a set level, the current from the SRS–IG or IGN fuse flows to TERMINALS (A) 6, (C) 1, (A) 3 and (C) 4 of the airbag sensor assembly to the side airbag squibs and the curtain airbag squibs to TERMINALS (A) 5, (C) 2, (A) 4 and (C) 3 of the airbag sensor assembly to TERMINAL (B) 27, (B) 28 or BODY GROUND to GROUND, causing side airbag squibs and curtain airbag squibs to operate.
The airbag stored inside the steering wheel pad is instantaneously expanded to soften the shock to the driver.
The airbag stored inside the passenger's instrument panel is instantaneously expanded to soften the shock to the front passenger.
Side airbags are instantaneously expanded to soften the shock of side to the driver and front passenger.
The curtain shield airbag can ease an impact on the head of the driver and front passenger and reduce risks of injury.
The pretensioners make sure of the seat belt restrainability.

: Parts Location

Code	See Page	Code	See Page	Code	See Page
A6	42 (RHD 1AZ–FE)	C8 A	46 (RHD)	P16	51 (RHD)
	44 (RHD 1CD–FTV)	C9 B	46 (RHD)	S16 A	49 (RHD)
A7	42 (RHD 1AZ–FE)	C13	50 (RHD)	S17 B	49 (RHD)
	44 (RHD 1CD–FTV)	C14	50 (RHD)	S36	49 (RHD)
A20 A	46 (RHD)	D6	47 (RHD)	S37	49 (RHD)
A21 B	46 (RHD)	E7	47 (RHD)	S39	51 (RHD)
A22 C	46 (RHD)	F19	47 (RHD)	S40	51 (RHD)
A23	46 (RHD)	J22	48 (RHD)		
A24	46 (RHD)	P15	51 (RHD)		

: Junction Block and Wire Harness Connector

Code	See Page	Junction Block and Wire Harness (Connector Location)
IA	24 (RHD)	Instrument Panel J/B and Instrument Panel Wire (Left Side of Grove Box)
IB		
ID		
IJ		
3D	28 (RHD)	Center J/B and Instrument Panel Wire (Lower Finish Panel)
3I		

: Connector Joining Wire Harness and Wire Harness

Code	See Page	Joining Wire Harness and Wire Harness (Connector Location)
ID1	66 (RHD)	Instrument Panel Wire and Engine Room Main Wire (Upper Part of Front Body Pillar LH)

: Ground Points

Code	See Page	Ground Points Location
IA	66 (RHD)	Left Kick Panel

Service Hints

I14 Ignition SW

7–8 : Closed with the ignition SW at **ST** position

S4 (A), S5 (B) Starter

Points closed with the ignition SW at **ST** position

: Parts Location

Code	See Page	Code		See Page	Code		See Page
E7	37 (LHD)	S4	A	33 (LHD 1AZ–FE)	S5	B	33 (LHD 1AZ–FE)
I14	37 (LHD)			35 (LHD 1CD–FTV)			35 (LHD 1CD–FTV)

: Relay Blocks

Code	See Page	Relay Blocks (Relay Block Location)
2	22	Engine Room R/B (Front Side of Left Suspension Tower)
7	23	Engine Room R/B No.2 (Front Side of Left Suspension Tower)

: Junction Block and Wire Harness Connector

Code	See Page	Junction Block and Wire Harness (Connector Location)
IH	24 (LHD)	Instrument Panel J/B and Instrument Panel Wire (Lower Finish Panel)
IP	25 (LHD)	Instrument Panel J/B and Engine Room Main Wire (Lower Finish Panel)

: Connector Joining Wire Harness and Wire Harness

Code	See Page	Joining Wire Harness and Wire Harness (Connector Location)
EA1	52 (LHD 1AZ–FE)	Engine Wire and Engine Room Main Wire (Near The Engine Room R/B)
	54 (LHD 1CD–FTV)	
ID3	56 (LHD)	Instrument Panel Wire and Engine Room Main Wire (Upper Part of Front Body Pillar LH)
IL3	58 (LHD)	Engine Wire and Instrument Panel Wire (Right Kick Panel)

: Splice Points

Code	See Page	Wire Harness with Splice Points	Code	See Page	Wire Harness with Splice Points
E10	54 (LHD 1CD–FTV)	Engine Wire			

Service Hints

I14 Ignition SW

7–8 : Closed with the ignition SW at **ST** position

S4 (A), S5 (B) Starter

Points closed with the ignition SW at **ST** position

: Parts Location

Code	See Page	Code		See Page	Code		See Page
E7	47 (RHD)	S4	A	43 (RHD 1AZ–FE)	S5	B	43 (RHD 1AZ–FE)
I14	47 (RHD)			45 (RHD 1CD–FTV)			45 (RHD 1CD–FTV)

: Relay Blocks

Code	See Page	Relay Blocks (Relay Block Location)
2	22	Engine Room R/B (Front Side of Left Suspension Tower)
7	23	Engine Room R/B No.2 (Front Side of Left Suspension Tower)

: Junction Block and Wire Harness Connector

Code	See Page	Junction Block and Wire Harness (Connector Location)
IC	24 (RHD)	Instrument Panel J/B and Engine Wire (Left Side of Grove Box)
IH	24 (RHD)	Instrument Panel J/B and Instrument Panel Wire (Left Side of Grove Box)
IP	25 (RHD)	Instrument Panel J/B and Engine Room Main Wire (Left Side of Grove Box)

: Connector Joining Wire Harness and Wire Harness

Code	See Page	Joining Wire Harness and Wire Harness (Connector Location)
IL3	66 (RHD)	Engine Wire and Instrument Panel Wire (Left Kick Panel)

: Splice Points

Code	See Page	Wire Harness with Splice Points	Code	See Page	Wire Harness with Splice Points
E23	64 (RHD 1CD–FTV)	Engine Wire			

Service Hints

T5 (A), T6 (B) Theft Deterrent ECU

(A) 10–Ground : Approx. **12** volts with the ignition SW at **ON** position
(A) 11–Ground : Always approx. **12** volts
(A) 22–Ground : Always continuity

B10 Body ECU

3, 25–Ground : Always approx. **12** volts

D8, D9, D10, D11 Door Courtesy SW Front LH, RH, Rear LH, RH

1–Ground : Continuity with the door open

U1 Unlock Warning SW

2–1 : Closed with the ignition key in cylinder

: Parts Location

Code	See Page	Code	See Page	Code	See Page
B10 A	46 (RHD)	D24 B	50 (RHD)	J22	48 (RHD)
B12	50 (RHD)	E5	42 (RHD 1AZ–FE)	J26 A	48 (RHD)
C8 A	46 (RHD)		44 (RHD 1CD–FTV)	J27 B	48 (RHD)
C9 B	46 (RHD)	E8 B	47 (RHD)	J28 A	48 (RHD)
D2	47 (RHD)	E8 D	47 (RHD)	J29 B	48 (RHD)
D7	47 (RHD)	G3	50 (RHD)	J32	50 (RHD)
D8	50 (RHD)	G4	50 (RHD)	J35	50 (RHD)
D9	50 (RHD)	H6 B	43 (RHD 1AZ–FE)	R3	48 (RHD)
D10	50 (RHD)	H6 B	45 (RHD 1CD–FTV)	S30 A	49 (RHD)
D11	50 (RHD)	I15	50 (RHD)	S31 B	49 (RHD)
D12 A	50 (RHD)	I16	50 (RHD)	T5 A	49 (RHD)
D13 B	50 (RHD)	J1 A	48 (RHD)	T6 B	49 (RHD)
D15 A	50 (RHD)	J2 B	48 (RHD)	T9	49 (RHD)
D16 A	50 (RHD)	J3	48 (RHD)	T11	51 (RHD)
D17 A	50 (RHD)	J7	48 (RHD)	U1	49 (RHD)
D21 B	50 (RHD)	J15	48 (RHD)	W3	51 (RHD)
D23 B	50 (RHD)	J16	48 (RHD)		

: Relay Blocks

Code	See Page	Relay Blocks (Relay Block Location)
2	22	Engine Room R/B (Front Side of Left Suspension Tower)

Theft Deterrent (RHD)

: Junction Block and Wire Harness Connector

Code	See Page	Junction Block and Wire Harness (Connector Location)
IA	24 (RHD)	Instrument Panel J/B and Instrument Panel Wire (Left Side of Grove Box)
IB		
IG		
IJ		
IK	25 (RHD)	Instrument Panel J/B and Roof Wire (Left Side of Grove Box)
IL	25 (RHD)	Instrument Panel J/B and Engine Room Main Wire (Left Side of Grove Box)
IM	25 (RHD)	Instrument Panel J/B and Floor Wire (Left Side of Grove Box)
3A	28 (RHD)	Center J/B and Instrument Panel Wire (Lower Finish Panel)
3B		
3C		
3E	28 (RHD)	Center J/B and Floor No.2 Wire (Lower Finish Panel)
3F	28 (RHD)	Center J/B and Instrument Panel Wire (Lower Finish Panel)
3H		
3J		
3K		
4A	30 (RHD)	Center J/B No.2 and Instrument Panel Wire (Near the Steering Column)
4B		
4C		

: Connector Joining Wire Harness and Wire Harness

Code	See Page	Joining Wire Harness and Wire Harness (Connector Location)
ED1	62 (RHD 1AZ–FE)	Engine Room No.4 Wire and Engine Room Main Wire (Near the Radiator Fan Motor)
	64 (RHD 1CD–FTV)	
IA1	68 (RHD)	Front Door RH Wire and Instrument Panel Wire (Right Kick Panel)
IA3		
IC1	66 (RHD)	Instrument Panel Wire and Floor Wire (Upper Part of Front Body Pillar LH)
IC2		
IC3		
ID2	66 (RHD)	Instrument Panel Wire and Engine Room Main Wire (Upper Part of Front Body Pillar LH)
IH1	68 (RHD)	Instrument Panel Wire and Engine Room Main Wire (Upper Part of Front Body Pillar RH)
IK1	66 (RHD)	Front Door LH Wire and Instrument Panel Wire (Left Kick Panel)
IM1	68 (RHD)	Floor No.2 Wire and Instrument Panel Wire (Right Kick Panel)
IM2		
BA1	70 (RHD)	Rear Door LH Wire and Floor Wire (Left Center Pillar)
BB1	70 (RHD)	Rear Door RH Wire and Floor No.2 Wire (Right Center Pillar)
BC1	70 (RHD)	Back Door No.1 Wire and Floor Wire (Upper Part of Left Quarter Panel)
BE1	70 (RHD)	Back Door No.1 Wire and Back Door No.2 Wire (Back Door Left)

: Ground Points

Code	See Page	Ground Points Location
EB	62 (RHD 1AZ–FE)	Right Radiator Side Support
	64 (RHD 1CD–FTV)	
IA	66 (RHD)	Left Kick Panel
IC	66 (RHD)	Right Kick Panel
BC	70 (RHD)	Left Quarter Panel
BE	70 (RHD)	Right Quarter Panel
BF	70 (RHD)	Center of the Back Door Panel

: Splice Points

Code	See Page	Wire Harness with Splice Points	Code	See Page	Wire Harness with Splice Points
B7	70 (RHD)	Roof Wire	B8	70 (RHD)	Roof Wire

Taillight (LHD)

Service Hints

TAIL Relay

5–3 : Closed with the light control SW at **TAIL** or **HEAD** position

: Parts Location

Code	See Page	Code	See Page	Code	See Page
B10 A	36 (LHD)	J3	38 (LHD)	J37 B	40 (LHD)
C12	36 (LHD)	J8	38 (LHD)	L1	40 (LHD)
F1	32 (LHD 1AZ–FE)	J15	38 (LHD)	L2	40 (LHD)
	34 (LHD 1CD–FTV)	J33 A	40 (LHD)	R14	41 (LHD)
F2	32 (LHD 1AZ–FE)	J34 B	40 (LHD)	R16	41 (LHD)
	34 (LHD 1CD–FTV)	J36 A	40 (LHD)		

: Relay Blocks

Code	See Page	Relay Blocks (Relay Block Location)
2	22	Engine Room R/B (Front Side of Left Suspension Tower)

: Junction Block and Wire Harness Connector

Code	See Page	Junction Block and Wire Harness (Connector Location)
IA	24 (LHD)	Instrument Panel J/B and Instrument Panel Wire (Lower Finish Panel)
IL	25 (LHD)	Instrument Panel J/B and Engine Room Main Wire (Lower Finish Panel)
IM	25 (LHD)	Instrument Panel J/B and Floor Wire (Lower Finish Panel)
IN	25 (LHD)	Instrument Panel J/B and Engine Room Main Wire (Lower Finish Panel)

: Connector Joining Wire Harness and Wire Harness

Code	See Page	Joining Wire Harness and Wire Harness (Connector Location)
IC3	56 (LHD)	Instrument Panel Wire and Floor Wire (Upper Part of Front Body Pillar LH)
BC1	60 (LHD)	Back Door No.1 Wire and Floor Wire (Upper Part of Left Quarter Panel)
BE1	60 (LHD)	Back Door No.1 Wire and Back Door No.2 Wire (Back Door Left)

: Ground Points

Code	See Page	Ground Points Location
EA	52 (LHD 1AZ–FE)	Left Radiator Side Support
	54 (LHD 1CD–FTV)	
EB	52 (LHD 1AZ–FE)	Right Radiator Side Support
	54 (LHD 1CD–FTV)	
IA	56 (LHD)	Left Kick Panel
BB	60 (LHD)	Front Side of the Left Quarter Panel
BF	60 (LHD)	Center of the Back Door Panel

Taillight (RHD)

Service Hints

TAIL Relay

5–3 : Closed with the light control SW at **TAIL** or **HEAD** position

: Parts Location

Code		See Page	Code		See Page	Code	See Page
C12	B	46 (RHD)	J3		48 (RHD)	L1	50 (RHD)
	A	46 (RHD)	J8		48 (RHD)	L2	50 (RHD)
F1		42 (RHD 1AZ–FE)	J33	A	50 (RHD)	R14	51 (RHD)
		44 (RHD 1CD–FTV)	J34	B	50 (RHD)	R15	51 (RHD)
F2		42 (RHD 1AZ–FE)	J36	A	50 (RHD)	R16	51 (RHD)
		44 (RHD 1CD–FTV)	J37	B	50 (RHD)	R17	51 (RHD)

: Relay Blocks

Code	See Page	Relay Blocks (Relay Block Location)
2	22	Engine Room R/B (Front Side of Left Suspension Tower)

: Junction Block and Wire Harness Connector

Code	See Page	Junction Block and Wire Harness (Connector Location)
IA	24 (RHD)	Instrument Panel J/B and Instrument Panel Wire (Left Side of Grove Box)
IL	25 (RHD)	Instrument Panel J/B and Engine Room Main Wire (Left Side of Grove Box)
IM	25 (RHD)	Instrument Panel J/B and Floor Wire (Left Side of Grove Box)
IN	25 (RHD)	Instrument Panel J/B and Engine Room Main Wire (Left Side of Grove Box)

: Connector Joining Wire Harness and Wire Harness

Code	See Page	Joining Wire Harness and Wire Harness (Connector Location)
BC1	70 (RHD)	Back Door No.1 Wire and Floor Wire (Upper Part of Left Quarter Panel)
BE1	70 (RHD)	Back Door No.1 Wire and Back Door No.2 Wire (Back Door Left)

: Ground Points

Code	See Page	Ground Points Location
EA	62 (RHD 1AZ–FE)	Left Radiator Side Support
	64 (RHD 1CD–FTV)	
IC	66 (RHD)	Right Kick Panel
BB	70 (RHD)	Front Side of the Left Quarter Panel
BF	70 (RHD)	Center of the Back Door Panel

Turn Signal and Hazard Warning Light (LHD)

Service Hints

T9 Turn Signal Flasher Relay

4–Ground : Always approx. **12** volts
1–Ground : Approx. **12** volts with the ignition SW at **ON** position
7–Ground : Always continuity

: Parts Location

Code		See Page	Code	See Page	Code		See Page
C8	A	36 (LHD)	F7	32 (LHD 1AZ–FE)	J32		40 (LHD)
C9	B	36 (LHD)		34 (LHD 1CD–FTV)	J33		40 (LHD)
C12		36 (LHD)	F8	32 (LHD 1AZ–FE)	R23		41 (LHD)
F5		32 (LHD 1AZ–FE)		34 (LHD 1CD–FTV)	R24		41 (LHD)
		34 (LHD 1CD–FTV)	H15	37 (LHD)	S14	A	39 (LHD)
F6		32 (LHD 1AZ–FE)	J8	38 (LHD)	S15	B	39 (LHD)
		34 (LHD 1CD–FTV)	J16	38 (LHD)	T9		39 (LHD)

: Relay Blocks

Code	See Page	Relay Blocks (Relay Block Location)
2	22	Engine Room R/B (Front Side of Left Suspension Tower)

: Junction Block and Wire Harness Connector

Code	See Page	Junction Block and Wire Harness (Connector Location)
IB	24 (LHD)	Instrument Panel J/B and Instrument Panel Wire (Lower Finish Panel)
IL	25 (LHD)	Instrument Panel J/B and Engine Room Main Wire (Lower Finish Panel)
IM	25 (LHD)	Instrument Panel J/B and Floor Wire (Lower Finish Panel)
3F	28 (LHD)	Center J/B and Instrument Panel Wire (Right Side of Grove Box)
3H		
3I		
3K		

: Connector Joining Wire Harness and Wire Harness

Code	See Page	Joining Wire Harness and Wire Harness (Connector Location)
IH1	58 (LHD)	Instrument Panel Wire and Engine Room Main Wire (Upper Part of Front Body Pillar RH)

: Ground Points

Code	See Page	Ground Points Location
EA	52 (LHD 1AZ–FE)	Left Radiator Side Support
	54 (LHD 1CD–FTV)	
IC	56 (LHD)	Right Kick Panel
BB	60 (LHD)	Front Side of the Left Quarter Panel
BC	60 (LHD)	Left Quarter Panel

Turn Signal and Hazard Warning Light (RHD)

Service Hints

T9 Turn Signal Flasher Relay

4–Ground : Always approx. **12** volts
1–Ground : Approx. **12** volts with the ignition SW at **ON** position
7–Ground : Always continuity

: Parts Location

Code		See Page	Code	See Page	Code		See Page
C8	A	46 (RHD)	F7	42 (RHD 1AZ–FE)	J16		48 (RHD)
C9	B	46 (RHD)		44 (RHD 1CD–FTV)	J33	A	50 (RHD)
C12	A	46 (RHD)	F8	42 (RHD 1AZ–FE)	J34	B	50 (RHD)
	B	46 (RHD)		44 (RHD 1CD–FTV)	R23		51 (RHD)
F5		42 (RHD 1AZ–FE)	H15	47 (RHD)	R24		51 (RHD)
		44 (RHD 1CD–FTV)	J3	48 (RHD)	S14	A	49 (RHD)
F6		42 (RHD 1AZ–FE)	J8	48 (RHD)	S15	B	49 (RHD)
		44 (RHD 1CD–FTV)	J15	48 (RHD)	T9		49 (RHD)

: Relay Blocks

Code	See Page	Relay Blocks (Relay Block Location)
2	22	Engine Room R/B (Front Side of Left Suspension Tower)

: Junction Block and Wire Harness Connector

Code	See Page	Junction Block and Wire Harness (Connector Location)
IB	24 (RHD)	Instrument Panel J/B and Instrument Panel Wire (Left Side of Grove Box)
IL	25 (RHD)	Instrument Panel J/B and Engine Room Main Wire (Left Side of Grove Box)
IM	25 (RHD)	Instrument Panel J/B and Floor Wire (Left Side of Grove Box)
3F	28 (RHD)	Center J/B and Instrument Panel Wire (Lower Finish Panel)
3H		
3I		
3K		

: Connector Joining Wire Harness and Wire Harness

Code	See Page	Joining Wire Harness and Wire Harness (Connector Location)
IH1	68 (RHD)	Instrument Panel Wire and Engine Room Main Wire (Upper Part of Front Body Pillar RH)

: Ground Points

Code	See Page	Ground Points Location
EA	62 (RHD 1AZ–FE)	Left Radiator Side Support
	64 (RHD 1CD–FTV)	
EB	62 (RHD 1AZ–FE)	Right Radiator Side Support
	64 (RHD 1CD–FTV)	
IC	66 (RHD)	Right Kick Panel
BB	70 (RHD)	Front Side of the Left Quarter Panel

TVSS (LHD)

Service Hints

Body ECU

3–Ground : Always approx. **12** volts
4–Ground : Approx. **12** volts with the ignition SW at **ON** position
1–Ground : Always continuity

D8, D9, D10, D11 Door Courtesy SW Front LH, RH, Rear LH, RH

1–Ground : Continuity with the door open

B12 Back Door Courtesy SW

1–2 : Continuity with the back door open

: Parts Location

Code	See Page	Code	See Page	Code	See Page
B10 A	36 (LHD)	F5	34 (LHD 1CD–FTV)	J16	38 (LHD)
B12	40 (LHD)	F6	32 (LHD 1AZ–FE)	J22	38 (LHD)
C8 A	36 (LHD)		34 (LHD 1CD–FTV)	J32	40 (LHD)
D2	37 (LHD)	F7	32 (LHD 1AZ–FE)	J33	40 (LHD)
D8	40 (LHD)		34 (LHD 1CD–FTV)	J35	40 (LHD)
D9	40 (LHD)	F8	32 (LHD 1AZ–FE)	R3	38 (LHD)
D10	40 (LHD)		34 (LHD 1CD–FTV)	R23	41 (LHD)
D11	40 (LHD)	H6	33 (LHD 1AZ–FE)	R24	41 (LHD)
D20	40 (LHD)		35 (LHD 1CD–FTV)	S18 A	39 (LHD)
D23	40 (LHD)	I13 B	37 (LHD)	S19 B	39 (LHD)
D24	40 (LHD)	J1 A	38 (LHD)	T10	39 (LHD)
E5	32 (LHD 1AZ–FE)	J2 B	38 (LHD)	T11	41 (LHD)
	34 (LHD 1CD–FTV)	J4	38 (LHD)	U1	39 (LHD)
F5	32 (LHD 1AZ–FE)	J8	38 (LHD)	W3	41 (LHD)

: Relay Blocks

Code	See Page	Relay Blocks (Relay Block Location)
2	22	Engine Room R/B (Front Side of Left Suspension Tower)

: Junction Block and Wire Harness Connector

Code	See Page	Junction Block and Wire Harness (Connector Location)
IA	24 (LHD)	Instrument Panel J/B and Instrument Panel Wire (Lower Finish Panel)
IB		
IG		
IJ		
IL	25 (LHD)	Instrument Panel J/B and Engine Room Main Wire (Lower Finish Panel)
IM	25 (LHD)	Instrument Panel J/B and Floor Wire (Lower Finish Panel)
3A	28 (LHD)	Center J/B and Instrument Panel Wire (Right Side of Grove Box)
3B		
3E		
3F		
3H		
3I		
3J		
3K		

: Connector Joining Wire Harness and Wire Harness

Code	See Page	Joining Wire Harness and Wire Harness (Connector Location)
IA1	56 (LHD)	Front Door LH Wire and Instrument Panel Wire (Left Kick Panel)
IC1	56 (LHD)	Instrument Panel Wire and Floor Wire (Upper Part of Front Body Pillar LH)
IC2		
IC3		
IH1	58 (LHD)	Instrument Panel Wire and Engine Room Main Wire (Upper Part of Front Body Pillar RH)
II1	58 (LHD)	Instrument Panel Wire and Floor No.2 Wire (Upper Part of Front Body Pillar RH)
II2		
IK1	58 (LHD)	Front Door RH Wire and Instrument Panel Wire (Right Kick Panel)
IM1	58 (LHD)	Floor No.2 Wire and Instrument Panel Wire (Right Kick Panel)
BA1	60 (LHD)	Rear Door LH Wire and Floor Wire (Left Center Pillar)
BB1	60 (LHD)	Rear Door RH Wire and Floor No.2 Wire (Right Center Pillar)
BC1	60 (LHD)	Back Door No.1 Wire and Floor Wire (Upper Part of Left Quarter Panel)
BE1	60 (LHD)	Back Door No.1 Wire and Back Door No.2 Wire (Back Door Left)

: Ground Points

Code	See Page	Ground Points Location
EA	52 (LHD 1AZ–FE)	Left Radiator Side Support
	54 (LHD 1CD–FTV)	
IA	56 (LHD)	Left Kick Panel
IC	56 (LHD)	Right Kick Panel
BB	60 (LHD)	Front Side of the Left Quarter Panel
BC	60 (LHD)	Left Quarter Panel
BE	60 (LHD)	Right Quarter Panel
BF	60 (LHD)	Center of the Back Door Panel

System Outline

In this system, the wireless door lock receiver receivers weak radio wave transmitted from the transmitter built–into the ignition key, and outputs a signal to the body ECU. Accordingly, all the doors are can be locked and unlocked by remote control.

1. Wireless Door Lock or Unlock Normal Operation

∗ Lock operation
When the LOCK SW of the transmitter is pushed, all the doors are locked.
∗ Unlock operation
When the UNLOCK SW of the transmitter is pushed, all the doors are unlocked.

2. Automatic Lock Operation

After all the doors are unlocked by pushing the UNLOCK SW of the transmitter, unless each of the doors is opened or the ignition key is inserted, all the doors are locked again.

3. Visual Confirmation of Lock or Unlock Function

When doors are locked by using the transmitter, the hazard warning lights blink once. When doors are unlocked by using the transmitter, the hazard warning lights blink twice.

4. Wireless Control Stop Function

If the following situations occur, wireless door lock function does not operate.
Lock operation
∗ When each of the doors opens. (Door courtesy SW is on)
∗ When ignition key is inserted to ignition SW. (Unlock warning SW is on)
∗ When ignition SW is on.
Unlock operation
∗ When ignition SW is on.
∗ When ignition key is inserted to ignition SW. (Unlock warning SW is on)

5. Repeat Function

If the doors are not locked after the lock signal is out put from transmitter by pushing LOCK SW, the lock signal is sent again to lock the doors.

Service Hints

Body ECU

3–Ground : Always approx. **12** volts
25–Ground : Always approx. **12** volts
1–Ground : Always continuity

U1 Unlock Warning SW

2–1 : Closed with the ignition key in the cylinder

: Parts Location

Code	See Page	Code	See Page	Code	See Page
B10 A	36 (LHD)	D23	40 (LHD)	J36 A	40 (LHD)
B12	40 (LHD)	D24	40 (LHD)	J37 B	40 (LHD)
B13	40 (LHD)	H6	33 (LHD 1AZ–FE)	S18 A	39 (LHD)
C8	36 (LHD)		35 (LHD 1CD–FTV)	S19 B	39 (LHD)
D2	37 (LHD)	J1 A	38 (LHD)	S22 A	39 (LHD)
D8	40 (LHD)	J2 B	38 (LHD)	S23 B	39 (LHD)
D9	40 (LHD)	J4	38 (LHD)	T9	39 (LHD)
D10	40 (LHD)	J6	38 (LHD)	U1	39 (LHD)
D11	40 (LHD)	J16	38 (LHD)	W3	41 (LHD)
D20	40 (LHD)	J22	38 (LHD)		

: Relay Blocks

Code	See Page	Relay Blocks (Relay Block Location)
2	22	Engine Room R/B (Front Side of Left Suspension Tower)

Wireless Door Lock Control (LHD)

: Junction Block and Wire Harness Connector

Code	See Page	Junction Block and Wire Harness (Connector Location)
IA	24 (LHD)	Instrument Panel J/B and Instrument Panel Wire (Lower Finish Panel)
IB		
IJ		
IL	25 (LHD)	Instrument Panel J/B and Engine Room Main Wire (Lower Finish Panel)
IM	25 (LHD)	Instrument Panel J/B and Floor Wire (Lower Finish Panel)
3A	28 (LHD)	Center J/B and Instrument Panel Wire (Right Side of Grove Box)
3C		
3E		
3F		
3H		
3I		
3J		
3K		

: Connector Joining Wire Harness and Wire Harness

Code	See Page	Joining Wire Harness and Wire Harness (Connector Location)
IA1	56 (LHD)	Front Door LH Wire and Instrument Panel Wire (Left Kick Panel)
IC1	56 (LHD)	Instrument Panel Wire and Floor Wire (Upper Part of Front Body Pillar LH)
IC2		
IC3		
II2	58 (LHD)	Instrument Panel Wire and Floor No.2 Wire (Upper Part of Front Body Pillar RH)
IK1	58 (LHD)	Front Door RH Wire and Instrument Panel Wire (Right Kick Panel)
IM1	58 (LHD)	Floor No.2 Wire and Instrument Panel Wire (Right Kick Panel)
BA1	60 (LHD)	Rear Door LH Wire and Floor Wire (Left Center Pillar)
BB1	60 (LHD)	Rear Door RH Wire and Floor No.2 Wire (Right Center Pillar)
BC1	60 (LHD)	Back Door No.1 Wire and Floor Wire (Upper Part of Left Quarter Panel)
BE1	60 (LHD)	Back Door No.1 Wire and Back Door No.2 Wire (Back Door Left)

: Ground Points

Code	See Page	Ground Points Location
IA	56 (LHD)	Left Kick Panel
IC	56 (LHD)	Right Kick Panel
BF	60 (LHD)	Center of the Back Door Panel

Wireless Door Lock Control (RHD)

System Outline

In this system, the wireless door lock receiver receivers weak radio wave transmitted from the transmitter built–into the ignition key, and outputs a signal to the body ECU. Accordingly, all the doors are can be locked and unlocked by remote control.

1. Wireless Door Lock or Unlock Normal Operation

∗ Lock operation
When the LOCK SW of the transmitter is pushed, all the doors are locked.
∗ Unlock operation
When the UNLOCK SW of the transmitter is pushed, all the doors are unlocked.

2. Automatic Lock Operation

After all the doors are unlocked by pushing the UNLOCK SW of the transmitter, unless each of the doors is opened or the ignition key is inserted, all the doors are locked again.

3. Visual Confirmation of Lock or Unlock Function

When doors are locked by using the transmitter, the hazard warning lights blink once. When doors are unlocked by using the transmitter, the hazard warning lights blink twice.

4. Wireless Control Stop Function

If the following situations occur, wireless door lock function does not operate.
Lock operation
∗ When each of the doors opens. (Door courtesy SW is on)
∗ When ignition key is inserted to ignition SW. (Unlock warning SW is on)
∗ When ignition SW is on.
Unlock operation
∗ When ignition SW is on.
∗ When ignition key is inserted to ignition SW. (Unlock warning SW is on)

5. Repeat Function

If the doors are not locked after the lock signal is out put from transmitter by pushing LOCK SW, the lock signal is sent again to lock the doors.

Service Hints

Body ECU

3–Ground : Always approx. **12** volts
25–Ground : Always approx. **12** volts
1–Ground : Always continuity

U1 Unlock Warning SW

2–1 : Closed with the ignition key in the cylinder

: Parts Location

Code	See Page	Code	See Page	Code	See Page
B10 A	46 (RHD)	D17 A	50 (RHD)	J28 A	48 (RHD)
B12	50 (RHD)	D20	50 (RHD)	J29 B	48 (RHD)
B13	50 (RHD)	D21 B	50 (RHD)	J32	50 (RHD)
C8	46 (RHD)	D23 B	50 (RHD)	J35	50 (RHD)
D2	47 (RHD)	D24 B	50 (RHD)	J36 A	50 (RHD)
D8	50 (RHD)	H6 B	43 (RHD 1AZ–FE)	J37 B	50 (RHD)
D9	50 (RHD)		45 (RHD 1CD–FTV)	S26 A	49 (RHD)
D10	50 (RHD)	J1 A	48 (RHD)	S27 B	49 (RHD)
D11	50 (RHD)	J2 B	48 (RHD)	T9	49 (RHD)
D12 A	50 (RHD)	J3	48 (RHD)	U1	49 (RHD)
D13 B	50 (RHD)	J7	48 (RHD)	W3	51 (RHD)
D15 A	50 (RHD)	J16	48 (RHD)		
D16 A	50 (RHD)	J22	48 (RHD)		

: Relay Blocks

Code	See Page	Relay Blocks (Relay Block Location)
2	22	Engine Room R/B (Front Side of Left Suspension Tower)

: Junction Block and Wire Harness Connector

Code	See Page	Junction Block and Wire Harness (Connector Location)
IA	24 (RHD)	Instrument Panel J/B and Instrument Panel Wire (Left Side of Grove Box)
IB		
IJ		
IL	25 (RHD)	Instrument Panel J/B and Engine Room Main Wire (Left Side of Grove Box)
IM	25 (RHD)	Instrument Panel J/B and Floor Wire (Left Side of Grove Box)
3A	28 (RHD)	Center J/B and Instrument Panel Wire (Lower Finish Panel)
3B		
3C		
3E	28 (RHD)	Center J/B and Floor No.2 Wire (Lower Finish Panel)
3F	28 (RHD)	Center J/B and Instrument Panel Wire (Lower Finish Panel)
3H		
3K		

: Connector Joining Wire Harness and Wire Harness

Code	See Page	Joining Wire Harness and Wire Harness (Connector Location)
IA1	68 (RHD)	Front Door RH Wire and Instrument Panel Wire (Right Kick Panel)
IA3		
IC1	66 (RHD)	Instrument Panel Wire and Floor Wire (Upper Part of Front Body Pillar LH)
IC2		
IC3		
IK1	66 (RHD)	Front Door LH Wire and Instrument Panel Wire (Left Kick Panel)
IM1	68 (RHD)	Floor No.2 Wire and Instrument Panel Wire (Right Kick Panel)
BA1	70 (RHD)	Rear Door LH Wire and Floor Wire (Left Center Pillar)
BB1	70 (RHD)	Rear Door RH Wire and Floor No.2 Wire (Right Center Pillar)
BC1	70 (RHD)	Back Door No.1 Wire and Floor Wire (Upper Part of Left Quarter Panel)
BE1	70 (RHD)	Back Door No.1 Wire and Back Door No.2 Wire (Back Door Left)

: Ground Points

Code	See Page	Ground Points Location
IA	66 (RHD)	Left Kick Panel
IC	66 (RHD)	Right Kick Panel
BC	70 (RHD)	Left Quarter Panel
BE	70 (RHD)	Right Quarter Panel
BF	70 (RHD)	Center of the Back Door Panel

Engine Room R/B and J/B (See Page 22)

Fuse		System	Page
7.5A	ALT–S	Charging (LHD)	90
		Charging (RHD)	92
7.5A	ECU–B	ABS (LHD)	276
		ABS (RHD)	280
		Combination Meter (LHD)	346
		Combination Meter (RHD)	352
		Door Lock Control (LHD)	234
		Door Lock Control (RHD)	240
		Double Locking (RHD)	246
		ECT and A/T Indicator (LHD)	152
		ECT and A/T Indicator (RHD)	158
		Engine Control (LHD 1CD–FTV)	116
		Engine Control (RHD 1CD–FTV)	128
		Engine Immobiliser System (LHD 1CD–FTV)	144
		Engine Immobiliser System (RHD 1CD–FTV)	148
		Front Air Conditioner (LHD)	362
		Front Air Conditioner (RHD)	368
		Front Fog Light (LHD)	216
		Front Fog Light (RHD)	218
		Headlight (LHD w/ Daytime Running Light)	164
		Headlight (LHD w/o Daytime Running Light)	168
		Headlight (RHD)	170
		Illumination (LHD)	200
		Interior Light (LHD)	208
		Interior Light (RHD)	212
		Light Reminder (LHD)	302
		Light Reminder (RHD)	304
		PTC Heater (LHD 1AZ–FE)	382
		Radio and Player (LHD w/ Display)	334
		Radio and Player (RHD w/ Display)	338
		Rear Cooler (LHD)	374
		Rear Fog Light (LHD)	220
		Rear Fog Light (RHD)	222
		Taillight (LHD)	176
		Taillight (RHD)	180
		Theft Deterrent (RHD)	262
		TVSS (LHD)	270
		Wireless Door Lock Control (LHD)	250
		Wireless Door Lock Control (RHD)	256
7.5A	OBD	Engine Control (LHD 1AZ–FE)	96
		Engine Control (LHD 1CD–FTV)	116
		Engine Control (RHD 1AZ–FE)	106
		Engine Control (RHD 1CD–FTV)	128

* These are the page numbers of the first page on which the related system is shown.

Fuse		System	Page
7.5A	RR FOG	Rear Fog Light (LHD)	220
		Rear Fog Light (RHD)	222
10A	DOME	Interior Light (LHD)	208
		Interior Light (RHD)	212
		Theft Deterrent (RHD)	262
10A	HORN	Horn (LHD)	320
		Horn (RHD)	322
		Theft Deterrent (RHD)	262
15A	A/F	Engine Control (LHD 1AZ–FE)	96
		Engine Control (RHD 1AZ–FE)	106
15A	EFI	ECT and A/T Indicator (LHD)	152
		ECT and A/T Indicator (RHD)	158
		Engine Control (LHD 1AZ–FE)	96
		Engine Control (LHD 1CD–FTV)	116
		Engine Control (RHD 1AZ–FE)	106
		Engine Control (RHD 1CD–FTV)	128
		Engine Immobiliser System (LHD 1AZ–FE)	140
		Engine Immobiliser System (LHD 1CD–FTV)	144
		Engine Immobiliser System (RHD 1AZ–FE)	142
		Engine Immobiliser System (RHD 1CD–FTV)	148
15A	HAZ	Turn Signal and Hazard Warning Light (LHD)	192
		Turn Signal and Hazard Warning Light (RHD)	196
15A	HEAD LH LWR	Headlight (LHD w/ Daytime Running Light)	164
		Headlight (LHD w/o Daytime Running Light)	168
		Headlight Beam Level Control (LHD)	172
15A	HEAD LH UPR	Headlight (LHD w/ Daytime Running Light)	164
		Headlight (LHD w/o Daytime Running Light)	168
15A	HEAD RH LWR	Headlight (LHD w/ Daytime Running Light)	164
		Headlight (LHD w/o Daytime Running Light)	168
		Headlight Beam Level Control (LHD)	172
15A	HEAD RH UPR	Combination Meter (LHD)	346
		Headlight (LHD w/ Daytime Running Light)	164
		Headlight (LHD w/o Daytime Running Light)	168
15A	H–LP LH LWR	Headlight (RHD)	170
		Headlight Beam Level Control (RHD)	174
15A	H–LP LH UPR	Headlight (RHD)	170
15A	H–LP RH LWR	Headlight (RHD)	170
		Headlight Beam Level Control (RHD)	174
15A	H–LP RH UPR	Combination Meter (RHD)	352
		Headlight (RHD)	170
15A	IG2	Engine Control (LHD 1AZ–FE)	96
		Engine Control (RHD 1AZ–FE)	106

* These are the page numbers of the first page on which the related system is shown.

J POWER SOURCE (Current Flow Chart)

Fuse		System	Page
15A	IG2	Starting and Ignition (LHD 1AZ–FE)	78
		Starting and Ignition (RHD 1AZ–FE)	82
15A	RAD NO.1	Radio and Player (LHD w/ Display)	334
		Radio and Player (LHD w/o Display)	342
		Radio and Player (RHD w/ Display)	338
		Radio and Player (RHD w/o Display)	344
30A	AM2	Starting (LHD 1CD–FTV)	86
		Starting (RHD 1CD–FTV)	88
		Starting and Ignition (LHD 1AZ–FE)	78
		Starting and Ignition (RHD 1AZ–FE)	82
30A	CDS	Radiator Fan and Condenser Fan (LHD 1AZ–FE)	358
		Radiator Fan and Condenser Fan (RHD 1AZ–FE)	360
30A	FUEL HTR	Fuel Heater (LHD)	94
30A	HEAD LP CLN	Headlight Cleaner (LHD)	318
30A	RDI	Radiator Fan and Condenser Fan (LHD 1AZ–FE)	358
		Radiator Fan and Condenser Fan (RHD 1AZ–FE)	360
30A	RR CLR	Rear Cooler (LHD)	374
		Rear Cooler (RHD)	376
40A	ABS NO.1	ABS (LHD)	276
		ABS (RHD)	280
40A	ABS NO.2	ABS (LHD)	276
		ABS (RHD)	280
40A	CDS	Radiator Fan and Condenser Fan (LHD 1CD–FTV)	358
		Radiator Fan and Condenser Fan (RHD 1CD–FTV)	360
40A	HTR	Front Air Conditioner (RHD)	368
40A	MAIN	Headlight (RHD)	170
40A	RDI	Radiator Fan and Condenser Fan (LHD 1CD–FTV)	358
		Radiator Fan and Condenser Fan (RHD 1CD–FTV)	360
50A	HTR	Front Air Conditioner (LHD)	362
50A	MAIN	Headlight (LHD w/ Daytime Running Light)	164
		Headlight (LHD w/o Daytime Running Light)	168
140A	ALT	Charging (LHD)	90
		Charging (RHD)	92
		Illumination (LHD)	200
		Illumination (RHD)	204
		Rear Window Defogger and Mirror Heater (LHD)	328
		Rear Window Defogger and Mirror Heater (RHD)	330
		Starting and Ignition (LHD 1AZ–FE)	78
		Starting and Ignition (RHD 1AZ–FE)	82
		Taillight (LHD)	176
		Taillight (RHD)	180

∗ These are the page numbers of the first page on which the related system is shown.

Engine Room R/B No.2 (See Page 23)

Fuse		System	Page
7.5A	ST	ECT and A/T Indicator (LHD)	152
		ECT and A/T Indicator (RHD)	158
		Engine Control (LHD 1AZ–FE)	96
		Engine Control (LHD 1CD–FTV)	116
		Engine Control (RHD 1AZ–FE)	106
		Engine Control (RHD 1CD–FTV)	128
		Starting (LHD 1CD–FTV)	86
		Starting (RHD 1CD–FTV)	88
		Starting and Ignition (LHD 1AZ–FE)	78
		Starting and Ignition (RHD 1AZ–FE)	82

Engine Room R/B No.4 (See Page 23)

Fuse		System	Page
50A	HTR SUB 1	PTC Heater (LHD 1AZ–FE)	382
		PTC Heater (LHD 1CD–FTV)	386
50A	HTR SUB 2	PTC Heater (LHD 1AZ–FE)	382
		PTC Heater (LHD 1CD–FTV)	386
50A	HTR SUB 3	PTC Heater (LHD 1AZ–FE)	382
		PTC Heater (LHD 1CD–FTV)	386

Instrument Panel J/B (See Page 24)

Fuse		System	Page
7.5A	ECU–ACC	ABS (RHD)	280
		Back–Up Light (RHD)	190
		Cigarette Lighter and Power Outlet (LHD)	324
		Cigarette Lighter and Power Outlet (RHD)	326
		ECT and A/T Indicator (RHD)	158
		Radio and Player (LHD w/ Display)	334
		Radio and Player (LHD w/o Display)	342
		Radio and Player (RHD w/ Display)	338
		Radio and Player (RHD w/o Display)	344
		Remote Control Mirror (LHD)	294
		Remote Control Mirror (RHD)	296
7.5A	ECU–IG	ABS (LHD)	276
		ABS (RHD)	280
		Charging (LHD)	90
		Charging (RHD)	92
		Radiator Fan and Condenser Fan (LHD)	358
		Radiator Fan and Condenser Fan (RHD)	360
		Theft Deterrent (RHD)	262
		TVSS (LHD)	270
7.5A	GAUGE	ABS (LHD)	276
		ABS (RHD)	280

∗ These are the page numbers of the first page on which the related system is shown.

J POWER SOURCE (Current Flow Chart)

Fuse		System	Page
7.5A	GAUGE	Back–Up Light (LHD)	188
		Back–Up Light (RHD)	190
		Combination Meter (LHD)	346
		Combination Meter (RHD)	352
		Door Lock Control (LHD)	234
		Door Lock Control (RHD)	240
		ECT and A/T Indicator (LHD)	152
		ECT and A/T Indicator (RHD)	158
		Engine Control (LHD 1AZ–FE)	96
		Engine Control (LHD 1CD–FTV)	116
		Engine Control (RHD 1AZ–FE)	106
		Engine Control (RHD 1CD–FTV)	128
		Front Air Conditioner (LHD)	362
		Front Air Conditioner (RHD)	368
		Front Fog Light (LHD)	216
		Front Fog Light (RHD)	218
		Headlight (LHD w/ Daytime Running Light)	164
		Illumination (LHD)	200
		Interior Light (LHD)	208
		Interior Light (RHD)	212
		Light Reminder (LHD)	302
		Light Reminder (RHD)	304
		Moon Roof (LHD)	298
		Moon Roof (RHD)	300
		Power Window (LHD)	224
		Power Window (RHD)	228
		PTC Heater (LHD 1AZ–FE)	382
		Radio and Player (LHD w/ Display)	334
		Radio and Player (RHD w/ Display)	338
		Rear Cooler (LHD)	374
		Rear Fog Light (LHD)	220
		Rear Fog Light (RHD)	222
		Seat Belt Warning (RHD)	306
		Turn Signal and Hazard Warning Light (LHD)	192
		Turn Signal and Hazard Warning Light (RHD)	196
		TVSS (LHD)	270
		Wireless Door Lock Control (LHD)	250
		Wireless Door Lock Control (RHD)	256
7.5A	PANEL	Combination Meter (LHD)	346
		Combination Meter (RHD)	352
		Front Fog Light (LHD)	216
		Front Fog Light (RHD)	218
		Illumination (LHD)	200
		Illumination (RHD)	204

∗ These are the page numbers of the first page on which the related system is shown.

Fuse		System	Page
7.5A	PANEL	Light Reminder (LHD)	302
		Light Reminder (RHD)	304
		Rear Fog Light (LHD)	220
		Rear Fog Light (RHD)	222
10A	HTR	Engine Control (LHD 1AZ–FE)	96
		Front Air Conditioner (LHD)	362
		Front Air Conditioner (RHD)	368
		PTC Heater (LHD 1AZ–FE)	382
		PTC Heater (LHD 1CD–FTV)	386
		Rear Cooler (LHD)	374
		Rear Cooler (RHD)	376
		Rear Heater (LHD)	378
		Rear Heater (RHD)	380
		Rear Window Defogger and Mirror Heater (LHD)	328
		Rear Window Defogger and Mirror Heater (RHD)	330
10A	IGN	ECT and A/T Indicator (LHD)	152
		ECT and A/T Indicator (RHD)	158
		Engine Control (LHD 1AZ–FE)	96
		Engine Control (LHD 1CD–FTV)	116
		Engine Control (RHD 1AZ–FE)	106
		Engine Control (RHD 1CD–FTV)	128
		Engine Immobiliser System (LHD 1AZ–FE)	140
		Engine Immobiliser System (LHD 1CD–FTV)	144
		Engine Immobiliser System (RHD 1AZ–FE)	142
		Engine Immobiliser System (RHD 1CD–FTV)	148
		Fuel Heater (LHD)	94
		SRS (LHD)	285
		SRS (RHD)	289
		Starting and Ignition (LHD 1AZ–FE)	78
		Starting and Ignition (RHD 1AZ–FE)	82
10A	MIR HTR	Rear Window Defogger and Mirror Heater (LHD)	328
		Rear Window Defogger and Mirror Heater (RHD)	330
10A	RR HTR	Rear Heater (LHD)	378
		Rear Heater (RHD)	380
10A	SEAT HTR	Seat Heater (LHD)	332
10A	SRS–IG	SRS (LHD)	285
		SRS (RHD)	289
10A	TAIL	Taillight (LHD)	176
		Taillight (RHD)	180
15A	C/LTR	Cigarette Lighter and Power Outlet (LHD)	324
		Cigarette Lighter and Power Outlet (RHD)	326
15A	FR FOG	Front Fog Light (LHD)	216
		Front Fog Light (RHD)	218

* These are the page numbers of the first page on which the related system is shown.

J POWER SOURCE (Current Flow Chart)

Fuse		System	Page
15A	FR FOG	Rear Fog Light (LHD)	220
		Rear Fog Light (RHD)	222
15A	PWR OUTLET	Cigarette Lighter and Power Outlet (LHD)	324
		Cigarette Lighter and Power Outlet (RHD)	326
15A	STOP	ABS (LHD)	276
		ABS (RHD)	280
		ECT and A/T Indicator (LHD)	152
		ECT and A/T Indicator (RHD)	158
		Engine Control (LHD 1AZ–FE)	96
		Engine Control (LHD 1CD–FTV)	116
		Engine Control (RHD 1AZ–FE)	106
		Engine Control (RHD 1CD–FTV)	128
		Stop Light (LHD)	184
		Stop Light (RHD)	186
20A	RR DEF	Rear Window Defogger and Mirror Heater (LHD)	328
		Rear Window Defogger and Mirror Heater (RHD)	330
25A	AM1	Starting and Ignition (LHD 1AZ–FE)	78
25A	DOOR	Door Lock Control (LHD)	234
		Door Lock Control (RHD)	240
		Theft Deterrent (RHD)	262
		Wireless Door Lock Control (LHD)	250
		Wireless Door Lock Control (RHD)	256
25A	DOOR NO.2	Double Locking (RHD)	246
		Theft Deterrent (RHD)	262
		TVSS (LHD)	270
25A	WIPER	Front Wiper and Washer (LHD)	308
		Front Wiper and Washer (RHD)	310
		Headlight Cleaner (LHD)	318
		Rear Wiper and Washer (LHD)	314
		Rear Wiper and Washer (RHD)	316
30A	FR P/W	Power Window (LHD)	224
		Power Window (RHD)	228
30A	PWR	Moon Roof (LHD)	298
		Moon Roof (RHD)	300
		Power Window (LHD)	224
		Power Window (RHD)	228

* These are the page numbers of the first page on which the related system is shown.

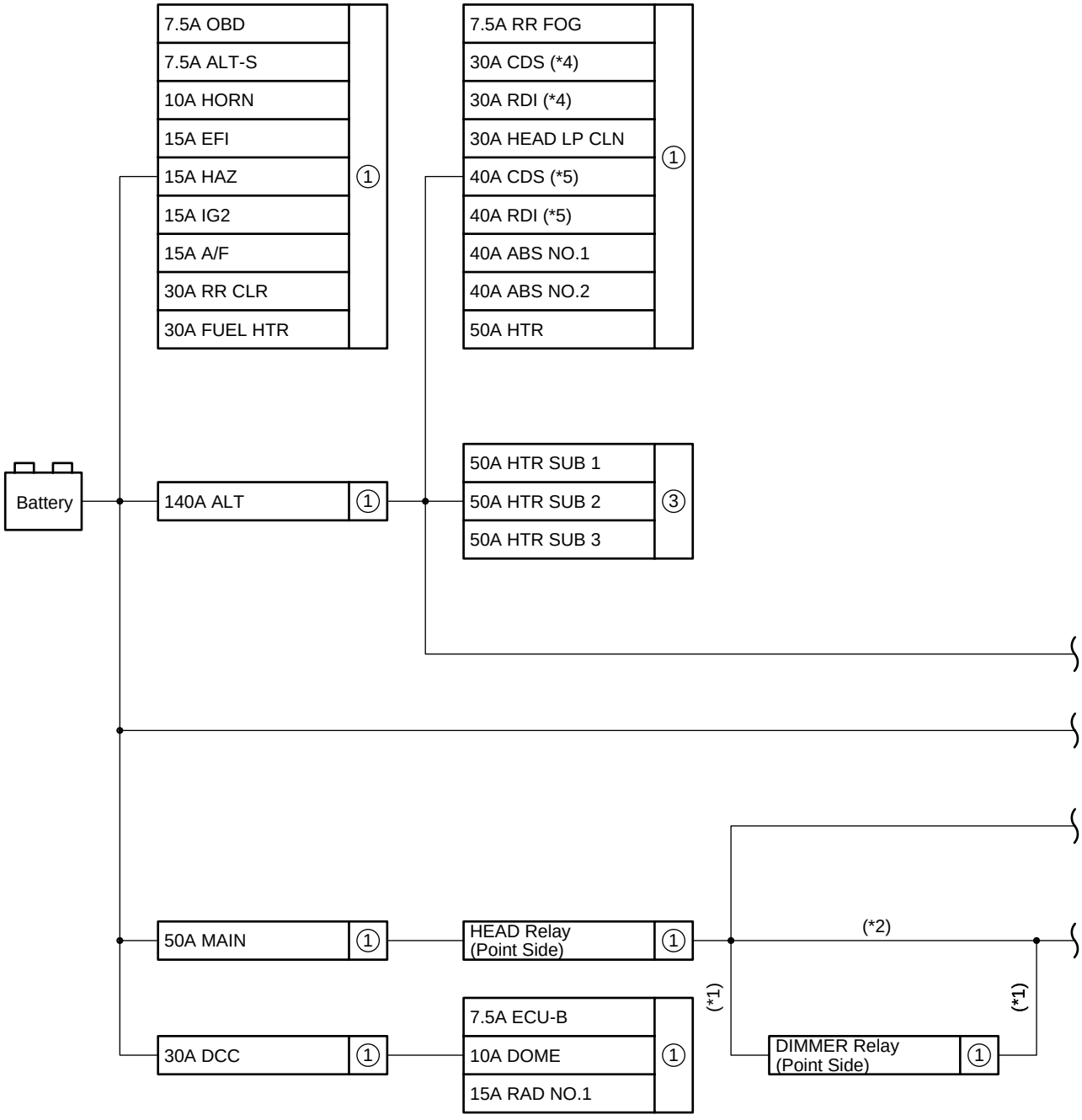
Fuse Holder (F19 on See Page 37 (LHD) or 47 (RHD))

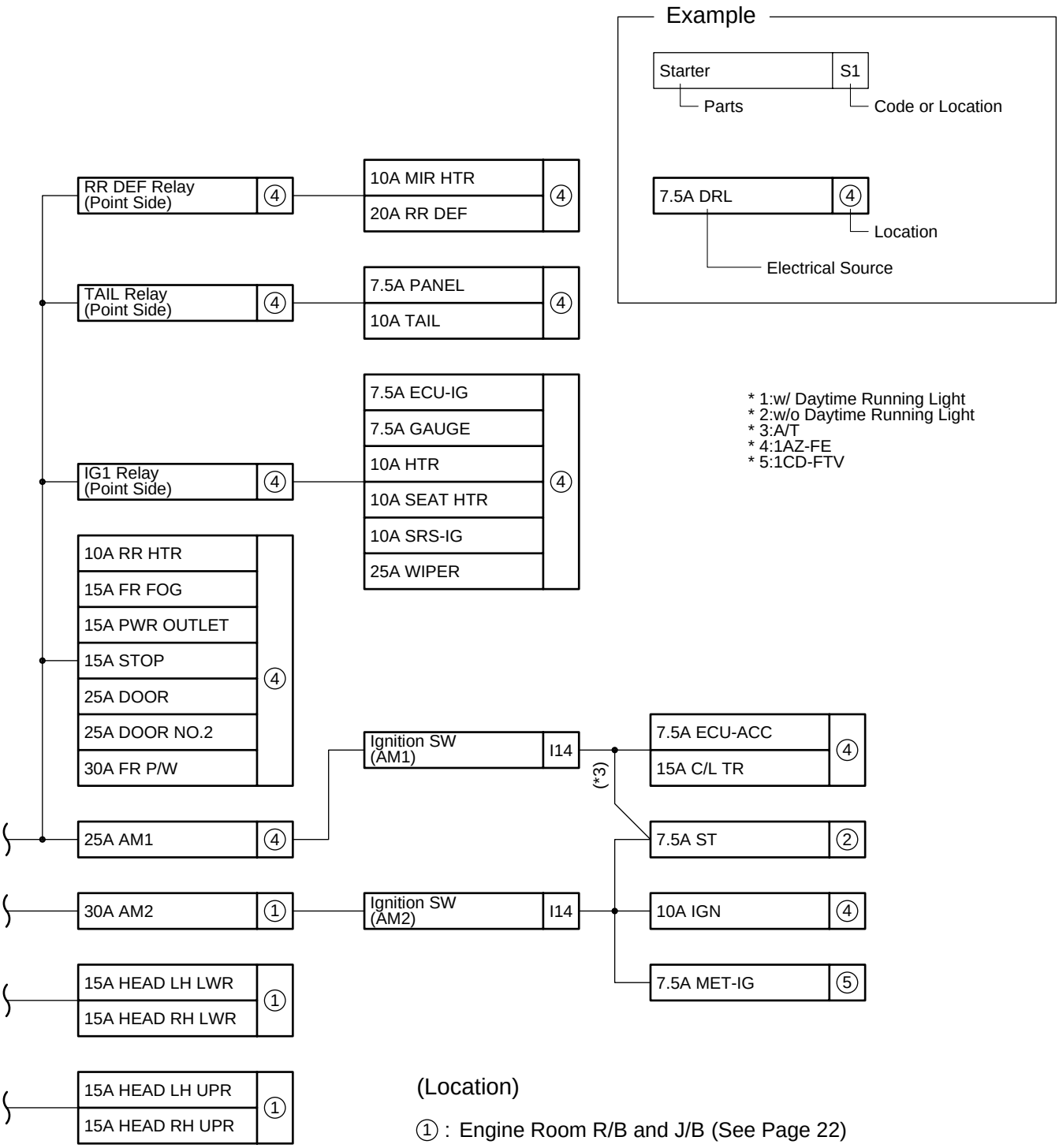
Fuse		System	Page
7.5A	MET–IG	ABS (LHD)	276
		ABS (RHD)	280
		Charging (LHD)	90
		Charging (RHD)	92
		Combination Meter (LHD)	346
		Combination Meter (RHD)	352
		ECT and A/T Indicator (LHD)	152
		ECT and A/T Indicator (RHD)	158
		Engine Control (LHD 1AZ–FE)	96
		Engine Control (LHD 1CD–FTV)	116
		Engine Control (RHD 1AZ–FE)	106
		Engine Control (RHD 1CD–FTV)	128
		SRS (LHD)	285
		SRS (RHD)	289

* These are the page numbers of the first page on which the related system is shown.

J POWER SOURCE (Current Flow Chart)

The chart below shows the route by which current flows from the battery to each electrical source (Fusible Link, Circuit Breaker, Fuse, etc.) and other Parts.





(Location)

① : Engine Room R/B and J/B (See Page 22)

② : Engine Room R/B No.2 (See Page 23)

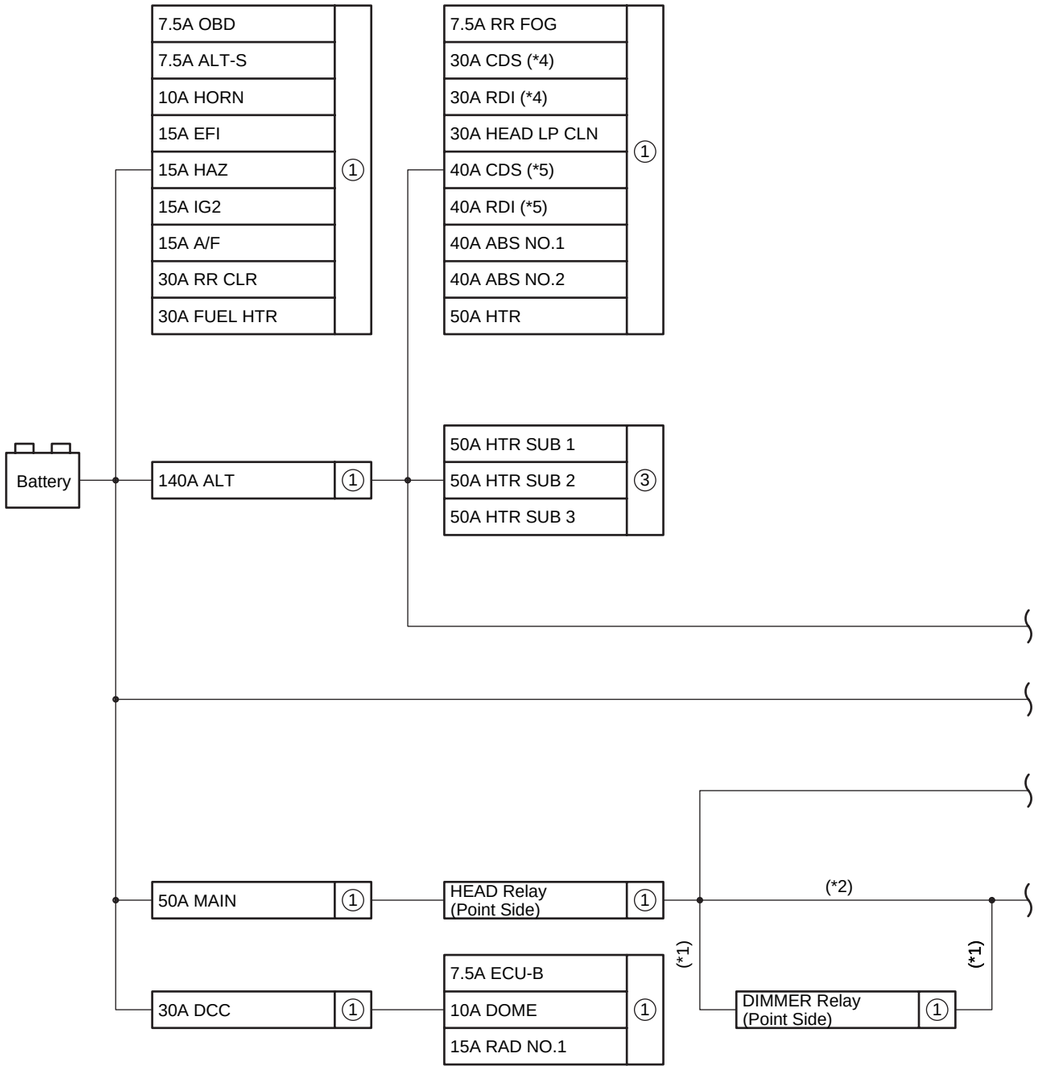
③ : Engine Room R/B No.3 (See Page 23)

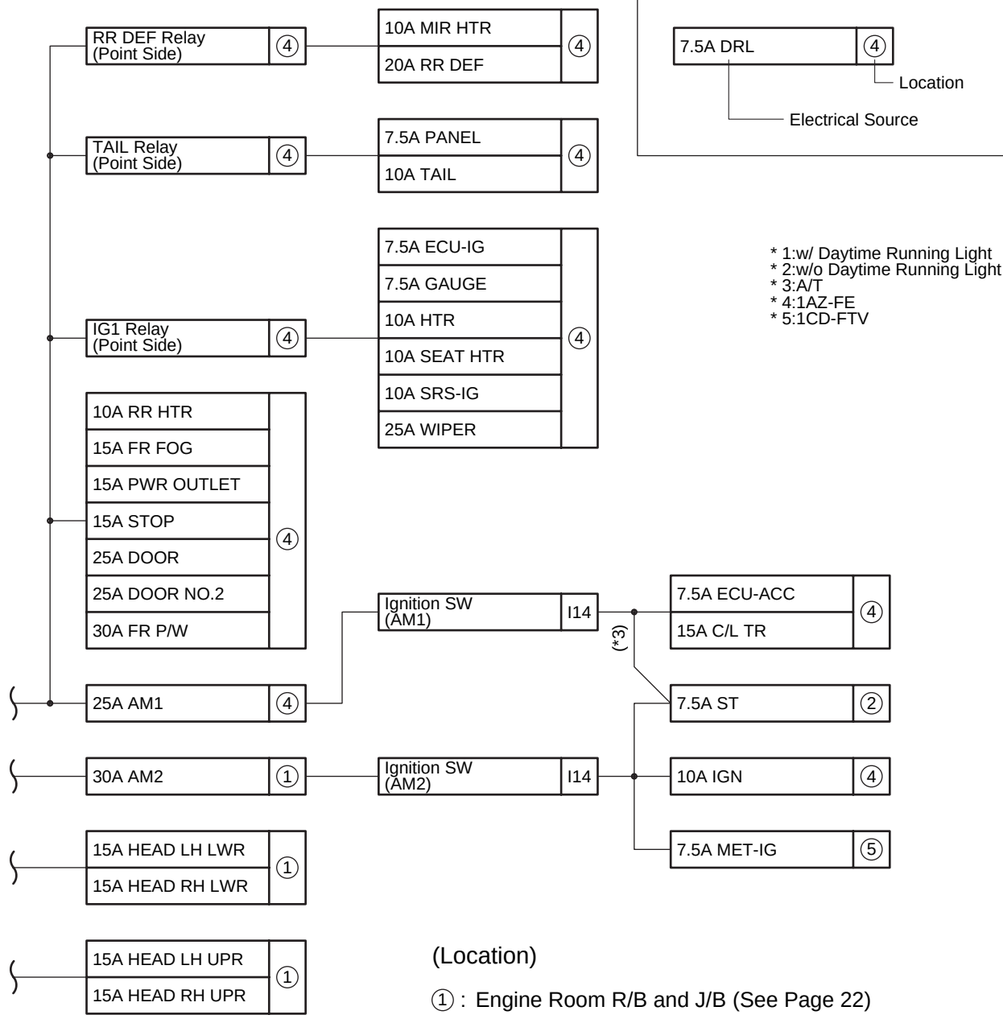
④ : Instrument Panel J/B (See Page 24)

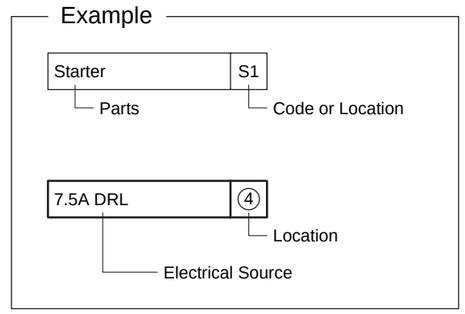
⑤ : Fuse Holder (F19 on See Page 37 (LHD) or 47 (RHD))

J POWER SOURCE (Current Flow Chart)

The chart below shows the route by which current flows from the battery to each electrical source (Fusible Link, Circuit Breaker, Fuse, etc.) and other Parts.







* 1:w/ Daytime Running Light
* 2:w/o Daytime Running Light
* 3:A/T
* 4:1AZ-FE
* 5:1CD-FTV

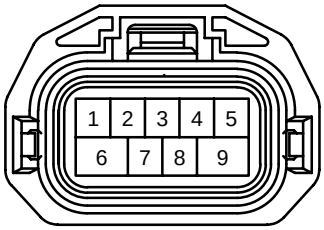
(Location)

① : Engine Room R/B and J/B (See Page 22)
② : Engine Room R/B No.2 (See Page 23)
③ : Engine Room R/B No.3 (See Page 23)
④ : Instrument Panel J/B (See Page 24)
⑤ : Fuse Holder (F19 on See Page 37 (LHD) or 47 (RHD))

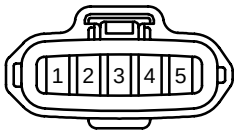
K CONNECTOR LIST

A 1
Gray

A 2
Gray



A 3
Black



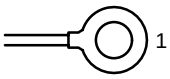
A 4
Gray

A 5
Gray

A 6
Yellow

A 7
Yellow

A 8

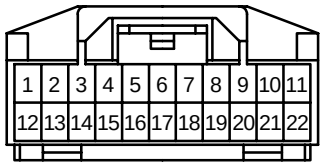


A 9
Green

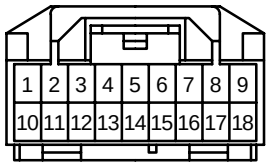
A10
Black

A11
Dark Gray

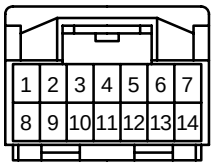
A12



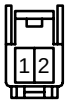
A13



A14

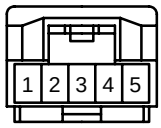


A15

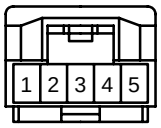


A16
Black

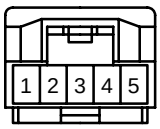
A17
Black



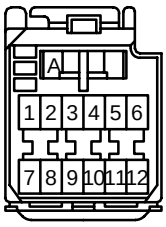
A18
Black



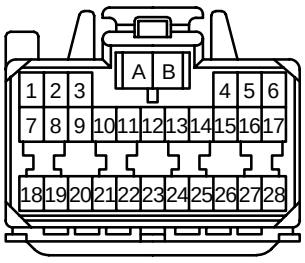
A19
Black



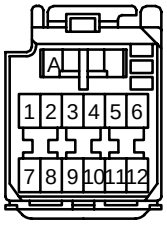
A20
Yellow



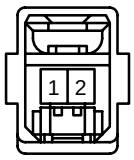
A21
Yellow



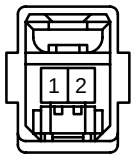
A22
Yellow



A23
Yellow

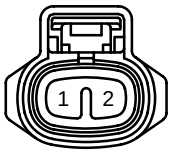


A24
Yellow



A25

B 1
Gray



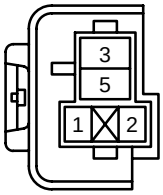
B 2
(LHD) Gray

B 2
(RHD) Black

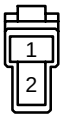
B 3
Gray

*1 : Except Two Way Flow Heater
*2 : Two Way Flow Heater
*3 : Except 1AZ–FE Europe

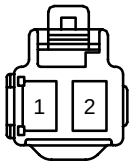
B 4
Black



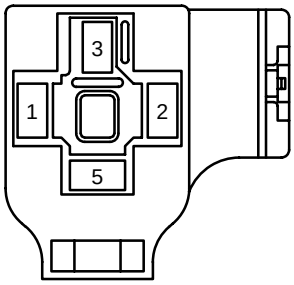
B 5
(*1) Black



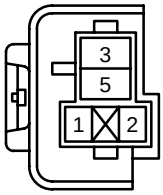
B 5
(*2) Black



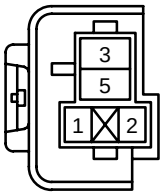
B 6



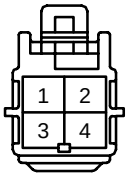
B 7



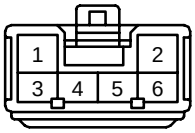
B 8



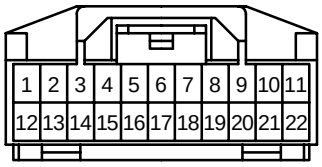
B 9
(*1) Black



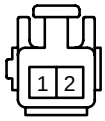
B 9
(*2) Black



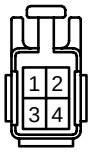
B10



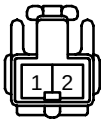
B11



B12



B13

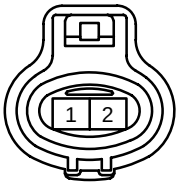


C 1
(1AZ–FE) Black

C 1
(1CD–FTV)

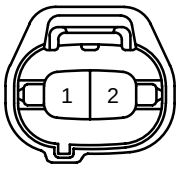
C 2
Black

C 3
(*3) Gray



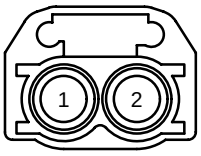
C 3
(1AZ–FE Europe) Black

C 4
Black

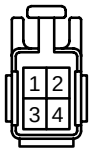


C 5
(1AZ–FE) Gray

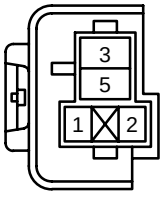
C 5
(1CD–FTV) Black



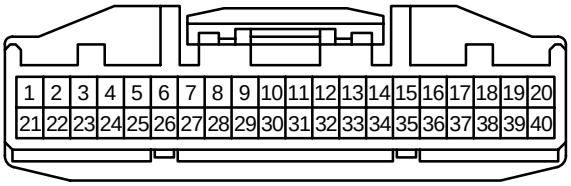
C 6



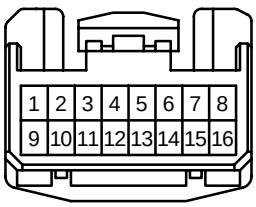
C 7



C 8

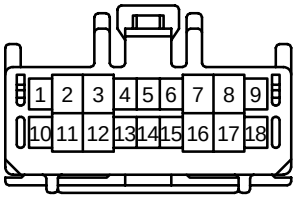


C 9

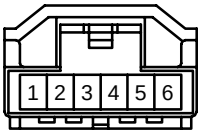


K CONNECTOR LIST

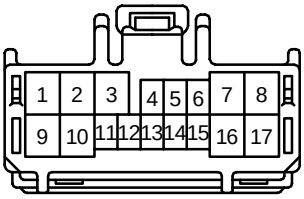
C10
Black



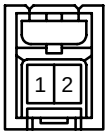
C11
Black



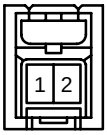
C12



C13
Yellow



C14
Yellow

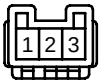


D 1
Black

D 2

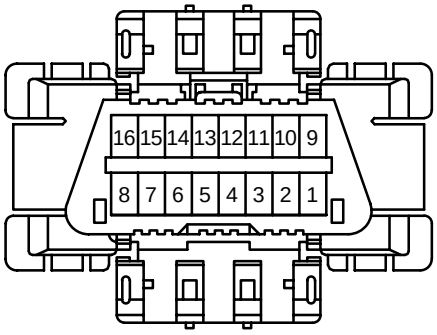
D 3

D 4

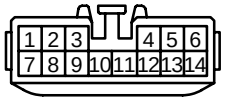


D 5

D 6



D 7



D 8

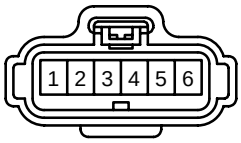
D 9

D10

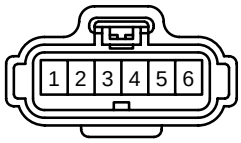
D11

D12
Gray

D13
Black



D14
Black

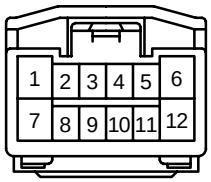


D15
Gray

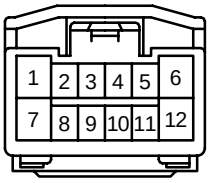
D16
Gray

D17
Gray

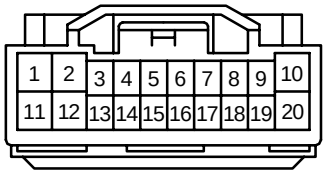
D18



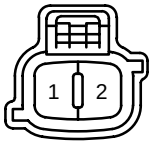
D19



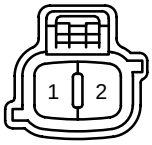
D20



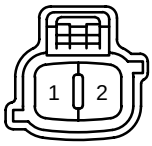
D21
Black



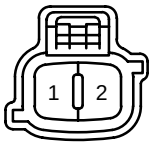
D22
Black



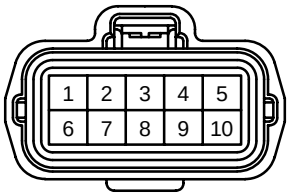
D23
Black



D24
Black

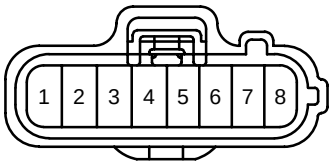


E 1
Gray

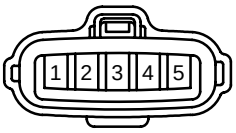


E 2
Black

E 3
Black



E 4
Black

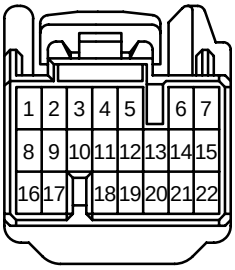


E 5
(LHD)

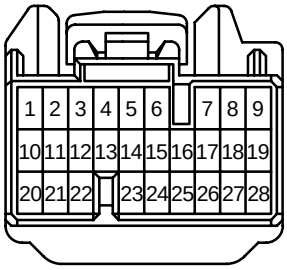
E 5
(RHD) Black

E 6
Gray

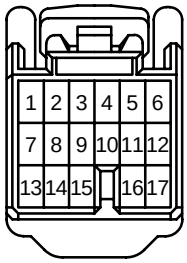
E 7



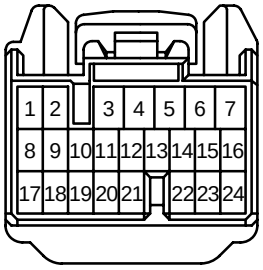
E 8



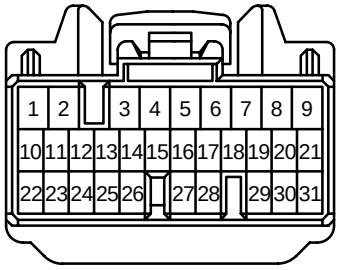
E 9



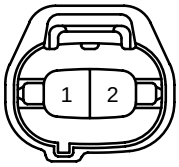
E10



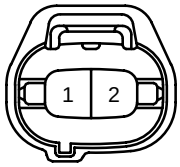
E11



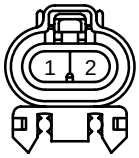
F 1
Black



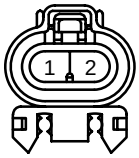
F 2
Black



F 3
Brown



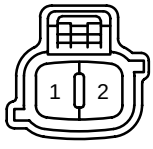
F 4
Brown



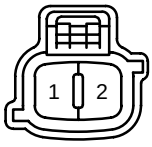
F 5
Gray

F 6
Gray

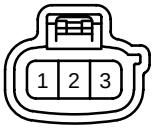
F 7
Gray



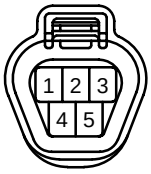
F 8
Gray



F 9
Black

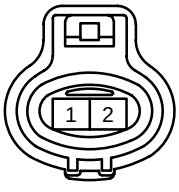


F10
Black



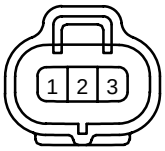
F11
Gray

F12
Gray



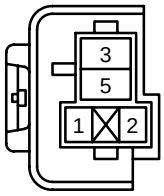
K CONNECTOR LIST

F13
Black



F14
Dark Gray

F15

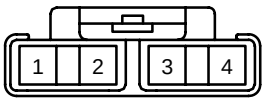


F16

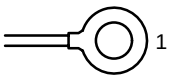
F17

F18

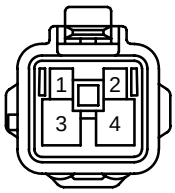
F19



G 1

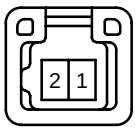


G 2
Gray



G 3

G 4

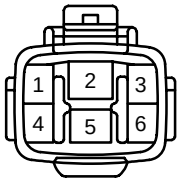


H 1
Black

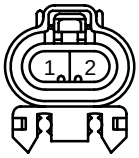
H 2
Black

H 3
Gray

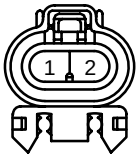
H 4
Black



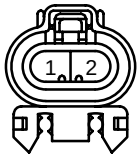
H 5
Black



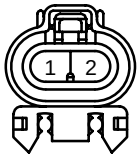
H 6
Brown



H 7
Black



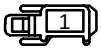
H 8
Brown



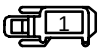
H 9
Black

H10
Black

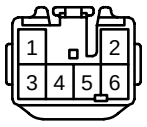
H11
Black



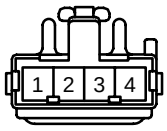
H12
Black



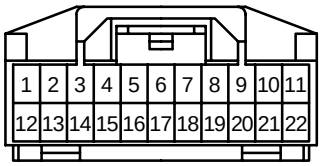
H13
Gray



H14

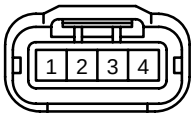


H15

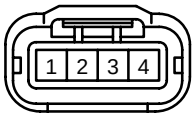


H16
Gray

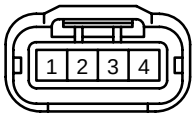
I 1
Gray



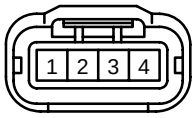
I 2
Brown



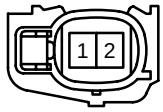
I 3
Gray



I 4
Brown

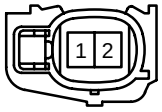


I 5
(1AZ–FE) Brown



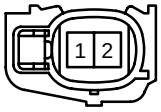
I 5
(1CD–FTV)

I 6
(1AZ–FE) Brown



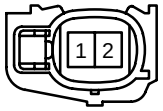
I 6
(1CD–FTV)

I 7
(1AZ–FE) Brown



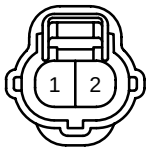
I 7
(1CD–FTV)

I 8
(1AZ–FE) Brown



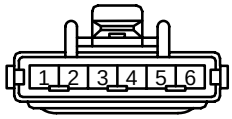
I 8
(1CD–FTV)

I 9
Dark Gray



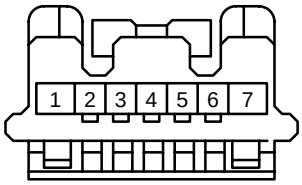
I10
Black

I11
Black

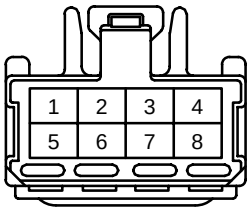


I12
Blue

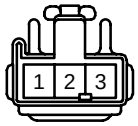
I13
Black



I14

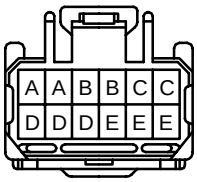


I15

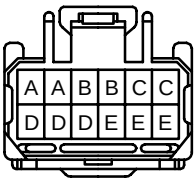


I16

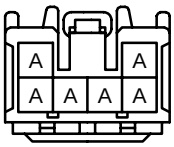
J 1
Black



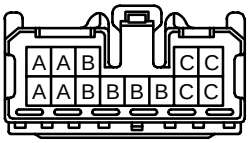
J 2
Black



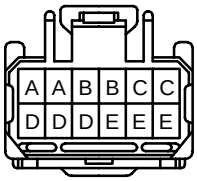
J 3



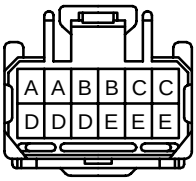
J 4



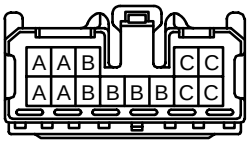
J 5



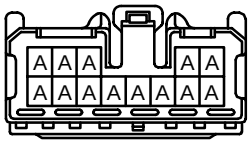
J 6



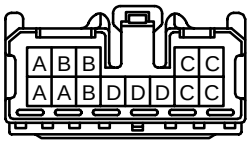
J 7
Gray



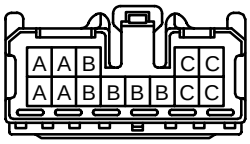
J 8
Black



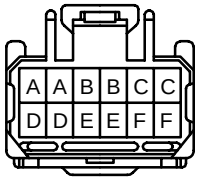
J 9
Blue



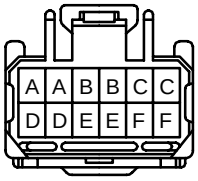
J10



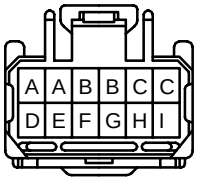
J11
Black



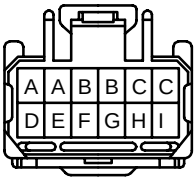
J12
Black



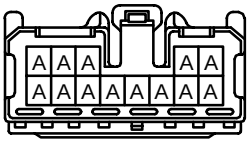
J13
Black



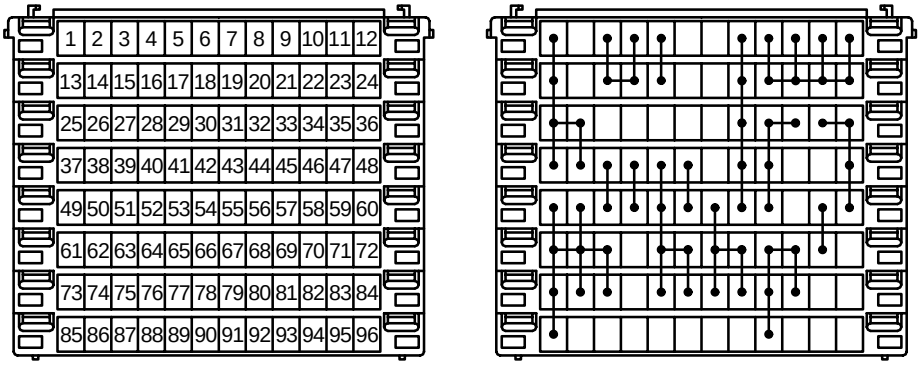
J14
Black



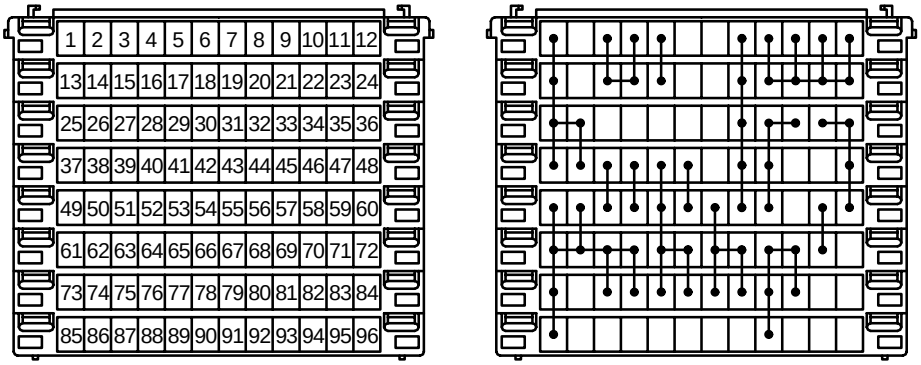
J15
Black



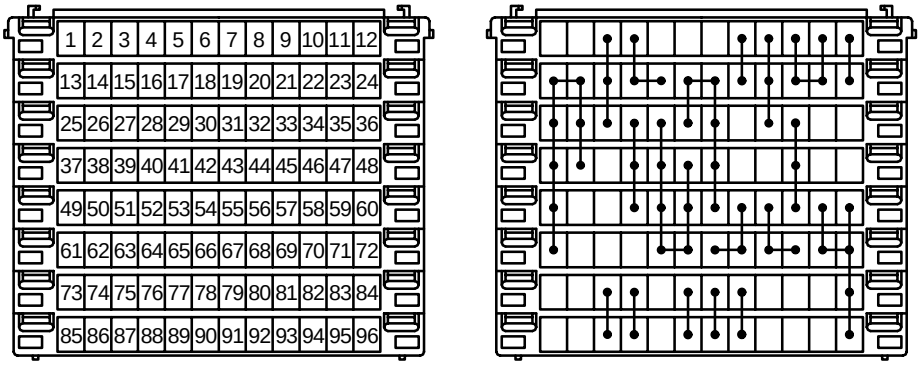
J16
(LHD 1AZ–FE) Short Terminal Grouping



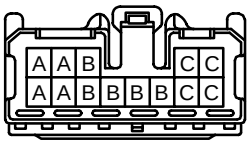
J16
(LHD 1CD–FTV) Short Terminal Grouping



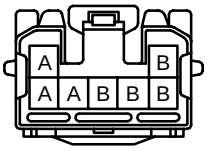
J16
(RHD) Short Terminal Grouping



J17



J18



J19
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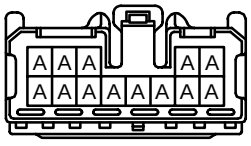
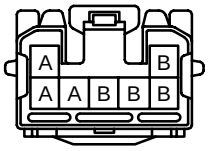
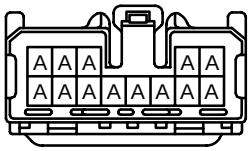


J20



J21
Black



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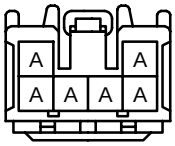
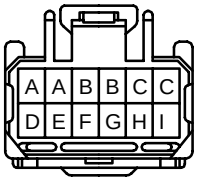
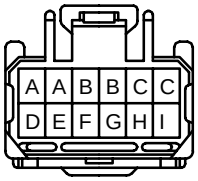


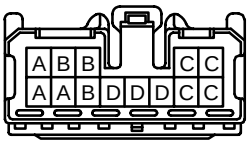
J23
Brown



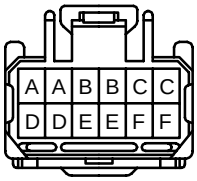
J24
Brown



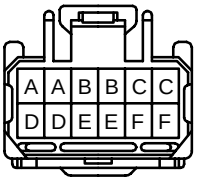
J25



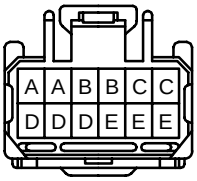
J26



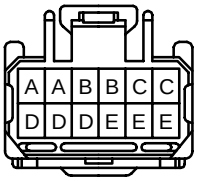
J27



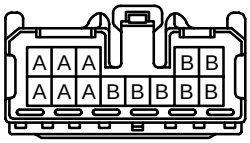
J28
Black



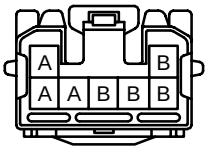
J29
Black



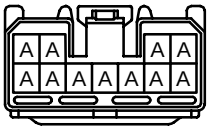
J30



J31



J32



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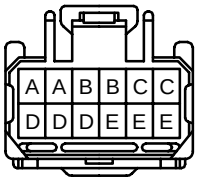
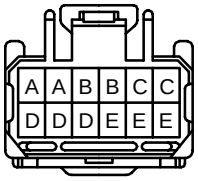
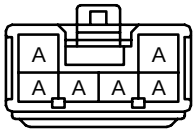


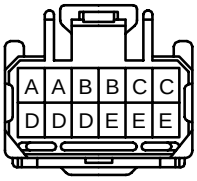
J34



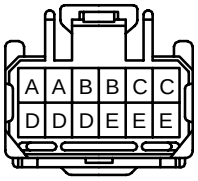
J35



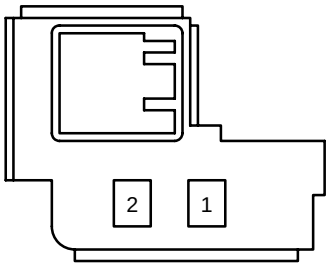
J36



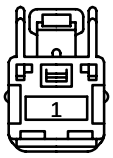
J37



J38

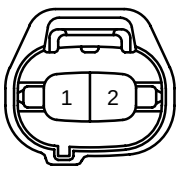


J39



K 1
Dark Gray

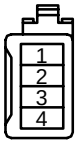
K 2
Black



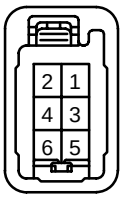
L 1
Gray

L 2
Gray

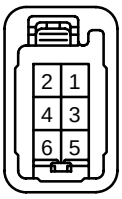
L 3



M 1

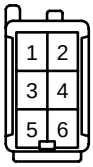


M 2



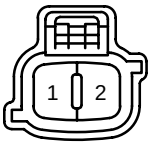
M 3

M 4



K CONNECTOR LIST

N 1
Gray

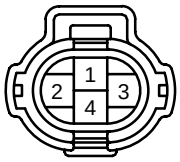


O 1
Gray

O 2

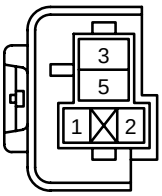
P 1
Black

P 2
Gray

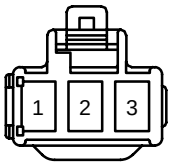


P 3
Brown

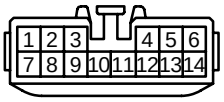
P 4



P 5



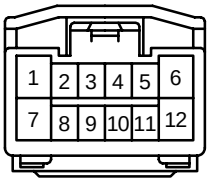
P 6
Black



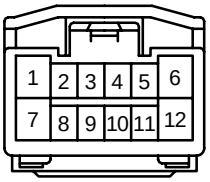
P 7

P 8

P 9

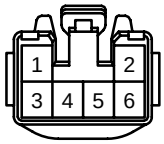


P10

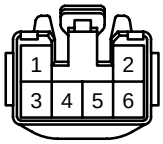


P11
Black

P12
Black



P13
Black



P14
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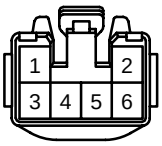
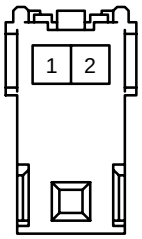
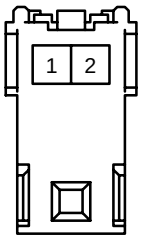


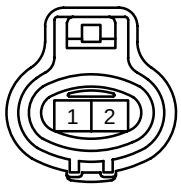
P15
Yellow



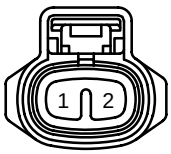
P16
Yellow



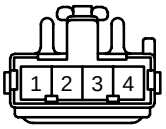
R 1
Gray



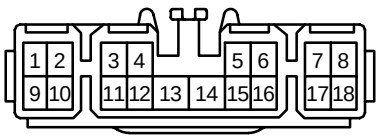
R 2
Black



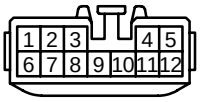
R 3



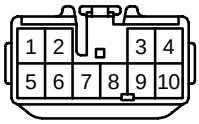
R 4



R 5

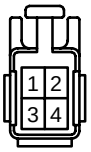


R 6

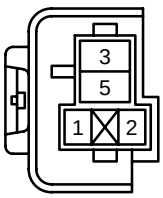


R 7

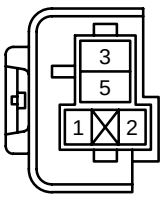
R 8



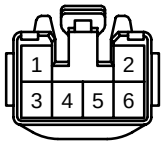
R 9



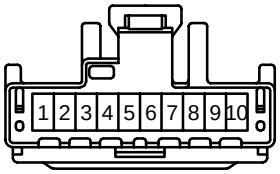
R10
Black



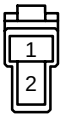
R11
Gray



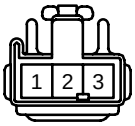
R12



R13
Black

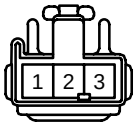


R14



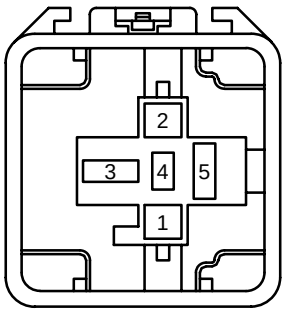
R15

R16

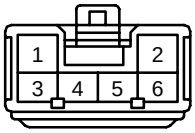


R17

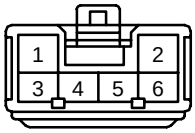
R18



R19
Black



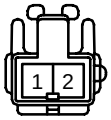
R20



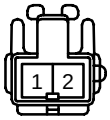
R21

R22

R23
Gray



R24
Gray

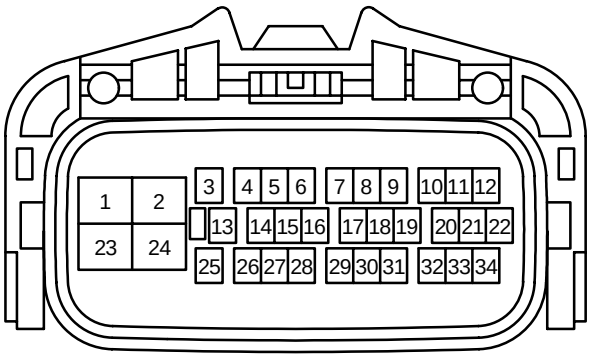


R25

R26

R27

S 1
Black

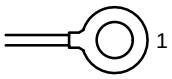


S 2
Gray

S 3

S 4
Black

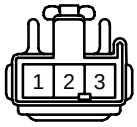
S 5



S 6
Black

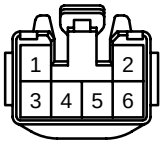
S 7
Gray

S 8



S 9

S10
Black

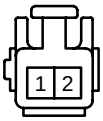


K CONNECTOR LIST

*4 : 1CD–FTV LHD, RHD

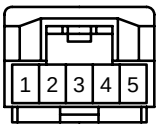
S11
Brown

S12

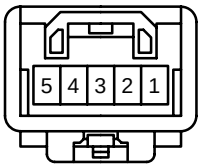


S13

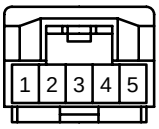
S14



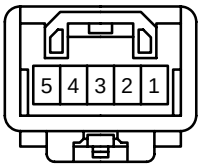
S15



S16



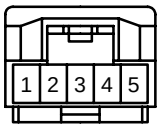
S17



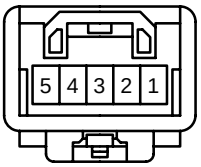
S18

S19

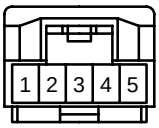
S20



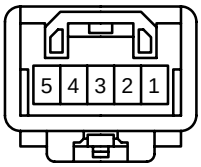
S21



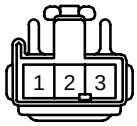
S22



S23



S24



S25

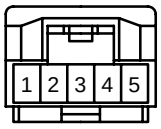
S26

S27

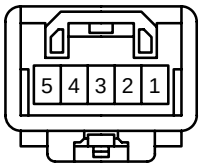
S28

S29

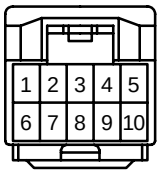
S30
Black



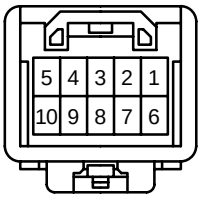
S31
Black



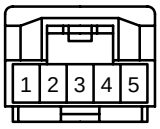
S32



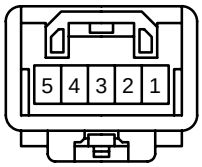
S33



S34



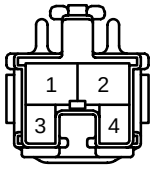
S35



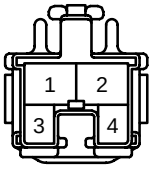
S36
Yellow

S37
Yellow

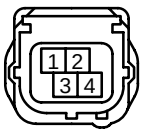
S38
(1AZ–FE LHD) Black



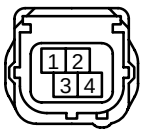
S38
(*4)



S39
Yellow



S40
Yellow



S41

S42

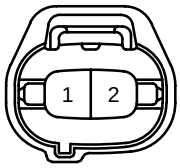
S43

S44

T 1
Black

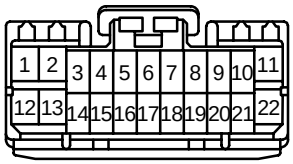
T 2
Dark Gray

T 3

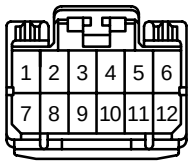


T 4
Black

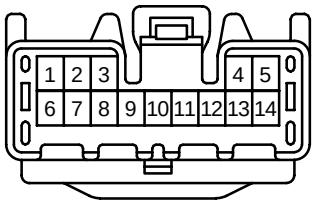
T 5



T 6

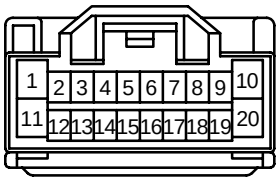


T 8



T 9

T10

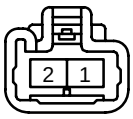


T11
(LHD) Gray

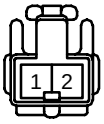
T11
(RHD)

T12
Black

T13
Black

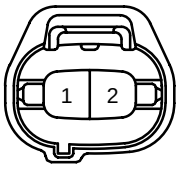


U 1

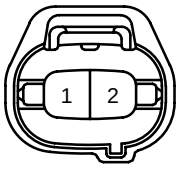


V 1

V 2
Blue



V 3



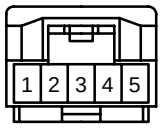
V 4

V 5

W 1
Dark Gray

W 2

W 3



L PART NUMBER OF CONNECTORS

Code	Part Name	Part Number
A 1	A/C Lock Sensor	90980–11016
	A/C Magnetic Clutch	
A 2	A/T Indicator Light SW	90980–11784
	Back–Up Light SW	
	Neutral Start SW	
A 3	Air Flow Meter	90980–11317
A 4	Air Fuel Ratio Sensor (Bank 1 Sensor 1)	90980–11178
A 5	Air Fuel Ratio Sensor (Bank 1 Sensor 2)	
A 6	Airbag Sensor Front LH	90980–11856
A 7	Airbag Sensor Front RH	
A 8	Alternator	90980–09212
A 9	Alternator	90980–11964
A10	Ambient Temp. Sensor No.1	90980–11070
A11	Ambient Temp. Sensor No.2	
A12	A/C Amplifier	90980–11915
A13	A/C Amplifier	90980–11913
A14	A/C Amplifier	90980–11911
A15	A/C Evaporator Temp. Sensor	90980–11918
A16	Accelerator Pedal Position Sensor	90980–11144
A17	Air Inlet Control Servo Motor	90980–11909
A18	Air Mix Control Servo Motor	
A19	Air Vent Mode Control Servo Motor	
A20	Airbag Sensor Assembly	90980–11873
A21	Airbag Sensor Assembly	90980–11872
A22	Airbag Sensor Assembly	90980–11871
A23	Airbag Squib (Front Passenger Airbag Assembly)	90980–11884
A24	Airbag Squib (Steering Wheel Pad)	
A25	Ashtray Illumination	90980–10355
B 1	Back–Up Light SW	90980–11250
B 2	Brake Fluid Level Warning SW (LHD)	90980–11009
	Brake Fluid Level Warning SW (RHD)	90980–11207
B 3	Brake Vacuum Warning SW	90980–11252
B 4	Back–Up Light Relay	82660–20340
B 5	Blower Motor (Except Two Way Flow Heater)	90980–10214
	Blower Motor (Two Way Flow Heater)	90980–10903
B 6	Blower Relay (HI)	82660–28230
B 7	Blower Relay (M1)	82660–20340
B 8	Blower Relay (M2)	
B 9	Blower Resistor (Except Two Way Flow Heater)	90980–11136
	Blower Resistor (Two Way Flow Heater)	90980–10976
B10	Body ECU	90980–11915
B11	Buckle SW RH	90980–10825
B12	Back Door Courtesy SW	90980–10795
	Back Door Lock Motor	

Code	Part Name	Part Number
B13	Back Door Opener SW	90980–10860
C 1	Camshaft Position Sensor	90980–10947
C 2	Camshaft Timing Oil Control Valve	90980–11162
C 3	Condenser Fan Motor (Except 1AZ–FE Europe)	90980–10928
	Condenser Fan Motor (1AZ–FE Europe)	90980–11237
C 4	Counter Gear Speed Sensor	90980–11156
C 5	Crankshaft Position Sensor (1AZ–FE)	90980–10947
	Crankshaft Position Sensor (1CD–FTV)	90980–12028
C 6	Cigarette Lighter	90980–10795
C 7	Circuit Opening Relay	82660–20340
C 8	Combination Meter	90980–12169
C 9	Combination Meter	90980–12155
C10	Combination SW	90980–11148
C11	Combination SW	90980–11986
C12	Combination SW	90980–11672
C13	Curtain Shield Airbag Squib LH	90980–11886
C14	Curtain Shield Airbag Squib RH	
D 1	Diesel Throttle Control Motor	90980–11144
D 2	Diode	90980–11608
D 3	Diode	
D 4	Diode (Fan)	90980–11251
D 5	Diode	90980–11608
D 6	DLC3	90980–11665
D 7	Double Door Lock ECU	90980–10807
D 8	Door Courtesy SW Front LH	90980–10871
D 9	Door Courtesy SW Front RH	
D10	Door Courtesy SW Rear LH	
D11	Door Courtesy SW Rear RH	
D12	Door Key Lock and Unlock SW Front LH	90980–10891
	Door Lock Motor Front LH	
	Door Unlock Detection SW Front LH	
	Double Door Lock Motor Front LH	
	Double Lock Position SW Front LH	
D13	Door Key Lock and Unlock SW Front RH	90980–11858
	Door Lock Motor Front RH	
D14	Door Key Lock and Unlock SW Front LH	
	Door Lock Motor Front LH	
	Door Unlock Detection SW Front LH	
D15	Door Key Lock and Unlock SW Front RH	90980–10891
	Door Lock Motor Front RH	
	Door Unlock Detection SW Front RH	
	Double Door Lock Motor Front RH	
	Double Lock Position SW Front RH	

Note: Not all of the above part numbers of the connector are established for the supply.

Code	Part Name	Part Number
D16	Door Key Lock and Unlock SW Rear LH	90980–10891
	Door Lock Motor Rear LH	
	Door Unlock Detection SW Rear LH	
	Double Door Lock Motor Rear LH	
	Double Lock Position SW Rear LH	
D17	Door Key Lock and Unlock SW Rear RH	
	Door Lock Motor Rear RH	
	Door Unlock Detection SW Rear RH	
	Double Door Lock Motor Rear RH	
	Double Lock Position SW Rear RH	
D18	Door Lock Control SW Front LH	90980–11947
	Power Window SW Front LH	
D19	Door Lock Control SW Front RH	
	Power Window SW Front RH	
D20	Door Lock Control SW	90980–12166
	Power Window Master SW	
D21	Door Lock Motor Front LH	90980–11019
D22	Door Lock Motor Front RH	
D23	Door Lock Motor Rear LH	
D24	Door Lock Motor Rear RH	
E 1	ECT Solenoid	90980–11658
E 2	EGR Valve Control Motor	90980–11144
E 3	Electronic Driver Unit	90980–11592
E 4	Electronic Driver Unit	90980–11024
E 5	Engine Hood Courtesy SW (LHD)	90980–10887
	Engine Hood Courtesy SW (RHD)	90980–11003
E 6	Engine Oil Level Sensor	90980–11235
E 7	Engine and ECT ECU (A/T)	90980–11638
	Engine ECU (M/T)	
E 8	Engine and ECT ECU (A/T)	90980–11637
	Engine ECU (M/T)	
E 9	Engine and ECT ECU (A/T)	90980–11586
	Engine ECU (M/T)	
E10	Engine and ECT ECU (A/T)	90980–11476
	Engine ECU (M/T)	
E11	Engine and ECT ECU (A/T)	90980–11421
	Engine ECU (M/T)	
F 1	Front Clearance Light LH	90980–11156
F 2	Front Clearance Light RH	
F 3	Front Fog Light LH	90980–11660
F 4	Front Fog Light RH	
F 5	Front Side Turn Signal Light LH	90980–11162
F 6	Front Side Turn Signal Light RH	
F 7	Front Turn Signal Light LH	90980–11019
F 8	Front Turn Signal Light RH	
F 9	Front Washer Motor	90980–10981

Code	Part Name	Part Number
F10	Front Wiper Motor	90980–11599
F11	Fuel Filter Warning SW	90980–11003
F12	Fuel Heater	90980–10928
F13	Fuel Pressure Sensor	90980–10845
F14	Fuel Temp. Sensor	90980–10737
F15	Front Fog Light Relay	82660–20340
F16	Front Door Speaker LH	90980–10935
F17	Front Door Speaker RH	
F18	Fuel Pump	90980–11077
	Fuel Sender	
F19	Fuse Holder	82610–20080
G 1	Glow Plug	99141–12006
G 2	Glow Plug Relay	90980–11569
G 3	Glass Breakage Sensor	90980–10799
G 4	Glass Breakage Sensor Microphone	90980–11368
H 1	Headlight Beam Level Control Actuator LH	90980–11016
H 2	Headlight Beam Level Control Actuator RH	
H 3	Headlight Cleaner Motor	90980–11410
H 4	Headlight Cleaner Relay	90980–10939
H 5	Headlight LH (High)	90980–11659
H 6	Headlight LH (Low)	90980–11660
H 7	Headlight RH (High)	90980–11659
H 8	Headlight RH (Low)	90980–11660
H 9	Heated Oxygen Sensor (Bank 1 Sensor 2)	90980–11028
H10	Heated Oxygen Sensor (Bank 2 Sensor 2)	
H11	Horn (High)	90980–10619
H12	Horn (Low)	
H13	Headlight Beam Level Control SW	90980–10996
H14	Headlight Cleaner SW	90980–11013
H15	Heater Control Panel	90980–11915
H16	High Mounted Stop Light	90980–11148
I 1	Ignition Coil and Igniter No.1	90980–11885
I 2	Ignition Coil and Igniter No.2	
I 3	Ignition Coil and Igniter No.3	
I 4	Ignition Coil and Igniter No.4	
I 5	Injector No.1 (1AZ–FE)	90980–11875
	Injector No.1 (1CD–FTV)	90980–12005
I 6	Injector No.2 (1AZ–FE)	90980–11875
	Injector No.2 (1CD–FTV)	90980–12005
I 7	Injector No.3 (1AZ–FE)	90980–11875
	Injector No.3 (1CD–FTV)	90980–12005
I 8	Injector No.4 (1AZ–FE)	90980–11875
	Injector No.4 (1CD–FTV)	90980–12005
I 9	Intake Air Temp. Sensor	90980–11025
I10	ISC Valve	90980–11145

L PART NUMBER OF CONNECTORS

Code	Part Name	Part Number
I11	Idle–Up SW	90980–10933
I12	Ignition Key Cylinder Light	90980–11148
I13	Ignition Key Cylinder Light	90980–12092
	Transponder Key Amplifier	
I14	Ignition SW	90980–11615
I15	Interior Light (Front)	90980–10908
I16	Interior Light (Rear)	90980–10935
J 1	Junction Connector	90980–11661
J 2	Junction Connector	
J 3	Junction Connector	90980–11583
J 4	Junction Connector	90980–11542
J 5	Junction Connector	90980–11661
J 6	Junction Connector	
J 7	Junction Connector	90980–11542
J 8	Junction Connector	
J 9	Junction Connector	
J10	Junction Connector	
J11	Junction Connector	90980–11661
J12	Junction Connector	
J13	Junction Connector	
J14	Junction Connector	
J15	Junction Connector	90980–11542
J16	Junction Connector	90980–12244
J17	Junction Connector	90980–11542
J18	Junction Connector	90980–11529
J19	Junction Connector	90980–11542
J20	Junction Connector	90980–11529
J21	Junction Connector	90980–11695
J22	Junction Connector	90980–11583
J23	Junction Connector	90980–11661
J24	Junction Connector	
J25	Junction Connector	90980–11542
J26	Junction Connector	90980–11661
J27	Junction Connector	
J28	Junction Connector	
J29	Junction Connector	
J30	Junction Connector	90980–11542
J31	Junction Connector	90980–11529
J32	Junction Connector	90980–11539
J33	Junction Connector	90980–11661
J34	Junction Connector	
J35	Junction Connector	90980–10976
J36	Junction Connector	90980–11661
J37	Junction Connector	
J38	Junction Block	82671–44010
J39	Junction Block	90980–11775

Code	Part Name	Part Number
K 1	Knock Sensor	90980–11166
K 2	Kick Down SW	90980–11156
L 1	License Plate Light LH	90980–11148
L 2	License Plate Light RH	
L 3	Luggage Compartment Light	90980–11187
M 1	Mirror Heater LH	90980–11587
	Remote Control Mirror LH	
M 2	Mirror Heater RH	
	Remote Control Mirror RH	
M 3	Moon Roof Control Relay	90980–10799
	Moon Roof Control SW	
M 4	Moon Roof Limit SW	90980–11011
	Moon Roof Motor	
N 1	Noise Filter	90980–11019
O 1	Oil Pressure SW	90980–11363
O 2	O/D Main SW	90980–10824
P 1	Power Steering Oil Pressure SW	90980–11428
P 2	Pressure SW	90980–10943
P 3	Parking Brake SW	90980–10871
P 4	Power Point Relay	82660–20340
P 5	PTC Heater	90980–10956
P 6	PTC Heater Amplifier	90980–10807
P 7	Personal Light	90980–10935
P 8	Power Outlet	90980–10859
P 9	Power Window Control SW Rear LH	90980–11947
P10	Power Window Control SW Rear RH	
P11	Power Window Motor Front LH	90980–10797
P12	Power Window Motor Front RH	
P13	Power Window Motor Rear LH	
P14	Power Window Motor Rear RH	
P15	Pretensioner LH	90980–12138
P16	Pretensioner RH	
R 1	Radiator Fan Motor	90980–10928
R 2	Rear Washer Motor	90980–11250
R 3	Radar Sensor	90980–11013
R 4	Radio and Player	90980–10819
R 5	Radio and Player	90980–10803
R 6	Radio and Player	90980–10997
R 7	Radio and Player	90980–10996
R 8	Rear Heater Blower Motor	90980–10795
R 9	Rear Heater Relay	82660–20340
R10	Rear Heater Relay (HI)	
R11	Rear Heater SW	90980–10797
R12	Remote Control Mirror SW	90980–11657
R13	Rear Blower Motor	90980–10214
R14	Rear Combination Light LH	90980–10908

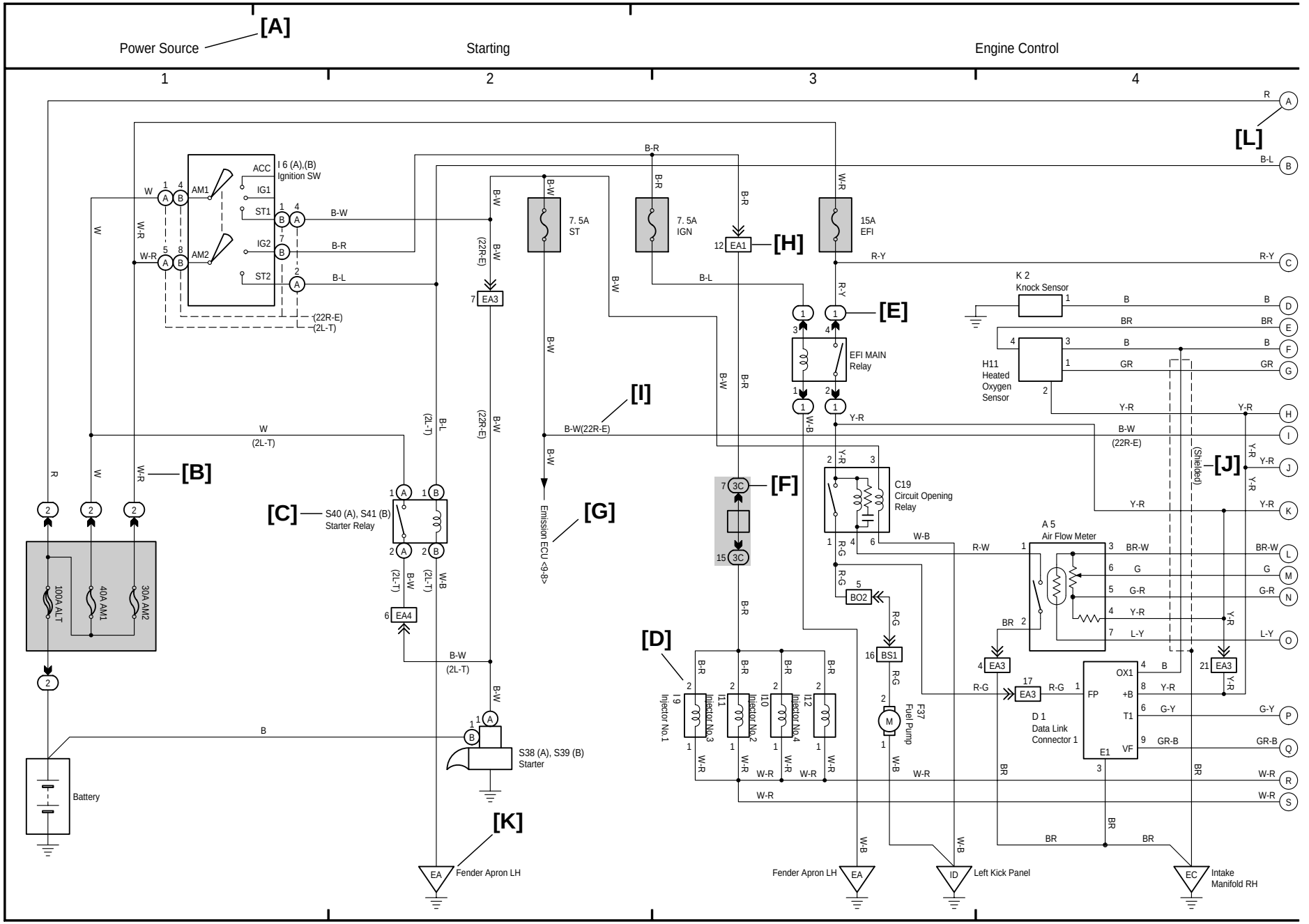
Note: Not all of the above part numbers of the connector are established for the supply.

Code	Part Name	Part Number
R15	Rear Combination Light LH	90980–11399
R16	Rear Combination Light RH	90980–10908
R17	Rear Combination Light RH	90980–11399
R18	Rear Cooler Relay	82660–37070
R19	Rear Cooler Resistor	90980–10976
R20	Rear Cooler SW	
R21	Rear Door Speaker LH	90980–10935
R22	Rear Door Speaker RH	
R23	Rear Turn Signal Light LH	90980–10906
R24	Rear Turn Signal Light RH	
R25	Rear Window Defogger (–)	90980–10871
R26	Rear Window Defogger (+)	
R27	Rear Wiper Motor	90980–11296
	Rear Wiper Relay	
S 1	Skid Control ECU with Actuator	90980–12020
S 2	Speed Sensor Front LH	90980–11002
S 3	Speed Sensor Front RH	
S 4	Starter	90980–11400
S 5	Starter	90980–09507
S 6	Suction Control Valve No.1	90980–11285
S 7	Suction Control Valve No.2	90980–11284
S 8	Seat Heater LH	90980–11296
S 9	Seat Heater RH	
S10	Seat Heater SW LH	90980–10797
S11	Seat Heater SW RH	90980–10996
S12	Short Connector	90980–10825
S13	Short Connector	90980–10824
S14	Short Connector	90980–11909
S15	Short Connector	90980–11920
S16	Short Connector	90980–11909
S17	Short Connector	90980–11920
S18	Short Connector	90980–10871
S19	Short Connector	90980–10870
S20	Short Connector	90980–11909
S21	Short Connector	90980–11920
S22	Short Connector	90980–11909
S23	Short Connector	90980–11920
S24	Short Connector	90980–10908
S25	Short Connector	90980–10907
S26	Short Connector	90980–10870

Code	Part Name	Part Number
S27	Short Connector	90980–10871
S28	Short Connector	90980–10870
S29	Short Connector	90980–10871
S30	Short Connector	90980–11909
S31	Short Connector	90980–11920
S32	Short Connector	90980–11923
S33	Short Connector	90980–11922
S34	Short Connector	90980–11909
S35	Short Connector	90980–11920
S36	Side Airbag Squib LH	90980–11864
S37	Side Airbag Squib RH	
S38	Stop Light SW	90980–11118
S39	Side Airbag Sensor LH	90980–11857
S40	Side Airbag Sensor RH	
S41	Speed Sensor Rear LH	90980–11060
S42	Speed Sensor Rear RH	90980–10859
S43	Short Connector	90980–10870
S44	Short Connector	90980–10871
T 1	Throttle Position Sensor	90980–11261
T 2	Throttle Position SW	90980–11038
T 3	Turbine Speed Sensor	90980–11156
T 4	Turbo Pressure Sensor	90980–10845
T 5	Theft Deterrent ECU	90980–11392
T 6	Theft Deterrent ECU	90980–11424
T 8	Transponder Key Computer	90980–11556
T 9	Turn Signal Flasher Relay	90980–10799
T10	TVSS ECU	90980–11971
T11	Theft Deterrent Siren (LHD)	90980–10988
	Theft Deterrent Siren (RHD)	90980–10942
T12	Tweeter LH	90980–10915
T13	Tweeter RH	
U 1	Unlock Warning SW	90980–10860
V 1	VRV (EGR)	90980–11162
V 2	VSV (EVAP)	90980–11156
V 3	VSV (Turbo Pressure Sensor)	90980–11149
V 4	Vanity Light LH	90980–10621
V 5	Vanity Light RH	
W 1	Water Temp. Sensor	90980–10737
W 2	Water Temp. SW	90980–11235
W 3	Wireless Door Lock Control Receiver	90980–11909

HOW TO READ THIS SECTION

* The system shown here is an EXAMPLE ONLY. It is different to the actual circuit shown in the wiring diagram section.



[A] : System Title

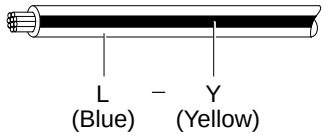
[B] : Indicates the wiring color.

Wire colors are indicated by an alphabetical code.

B	= Black	W	= White	BR	= Brown
L	= Blue	V	= Violet	SB	= Sky Blue
R	= Red	G	= Green	LG	= Light Green
P	= Pink	Y	= Yellow	GR	= Gray
O	= Orange				

The first letter indicates the basic wire color and the second letter indicates the color of the stripe.

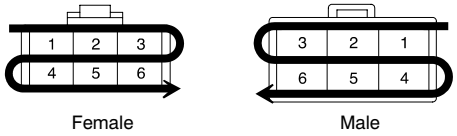
Example: L – Y



[C] : The position of the parts is the same as shown in the wiring diagram and wire routing.

[D] : Indicates the pin number of the connector. The numbering system is different for female and male connectors.

Example : Numbered in order from upper left to lower right / Numbered in order from upper right to lower left



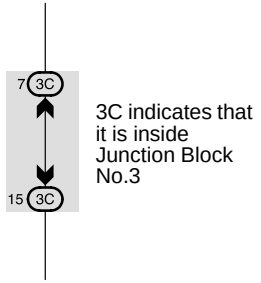
The numbering system for the overall wiring diagram is the same as above

[E] : Indicates a Relay Block. No shading is used and only the Relay Block No. is shown to distinguish it from the J/B.

Example : (1) Indicates Relay Block No.1

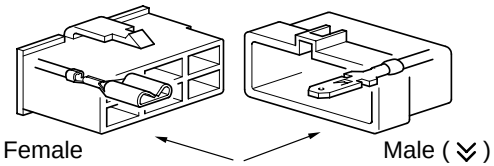
[F] : Junction Block (The number in the circle is the J/B No. and the connector code is shown beside it). Junction Blocks are shaded to clearly separate them from other parts.

Example:



[G] : Indicates related system.

[H] : Indicates the wiring harness and wiring harness connector. The wiring harness with male terminal is shown with arrows (»). Outside numerals are pin numbers.



[I] : ( ) is used to indicate different wiring and connector, etc. when the vehicle model, engine type, or specification is different.

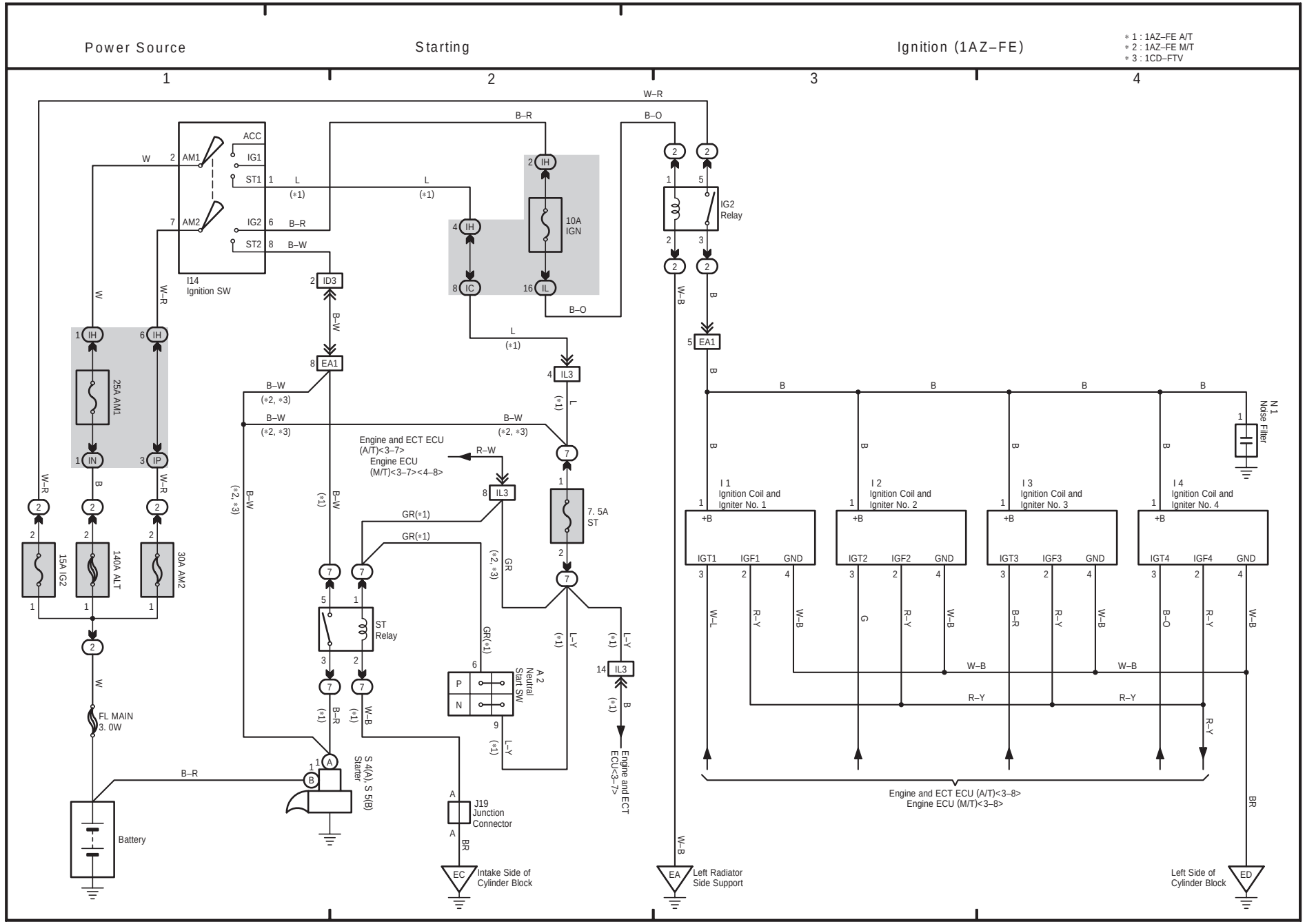
[J] : Indicates a shielded cable.

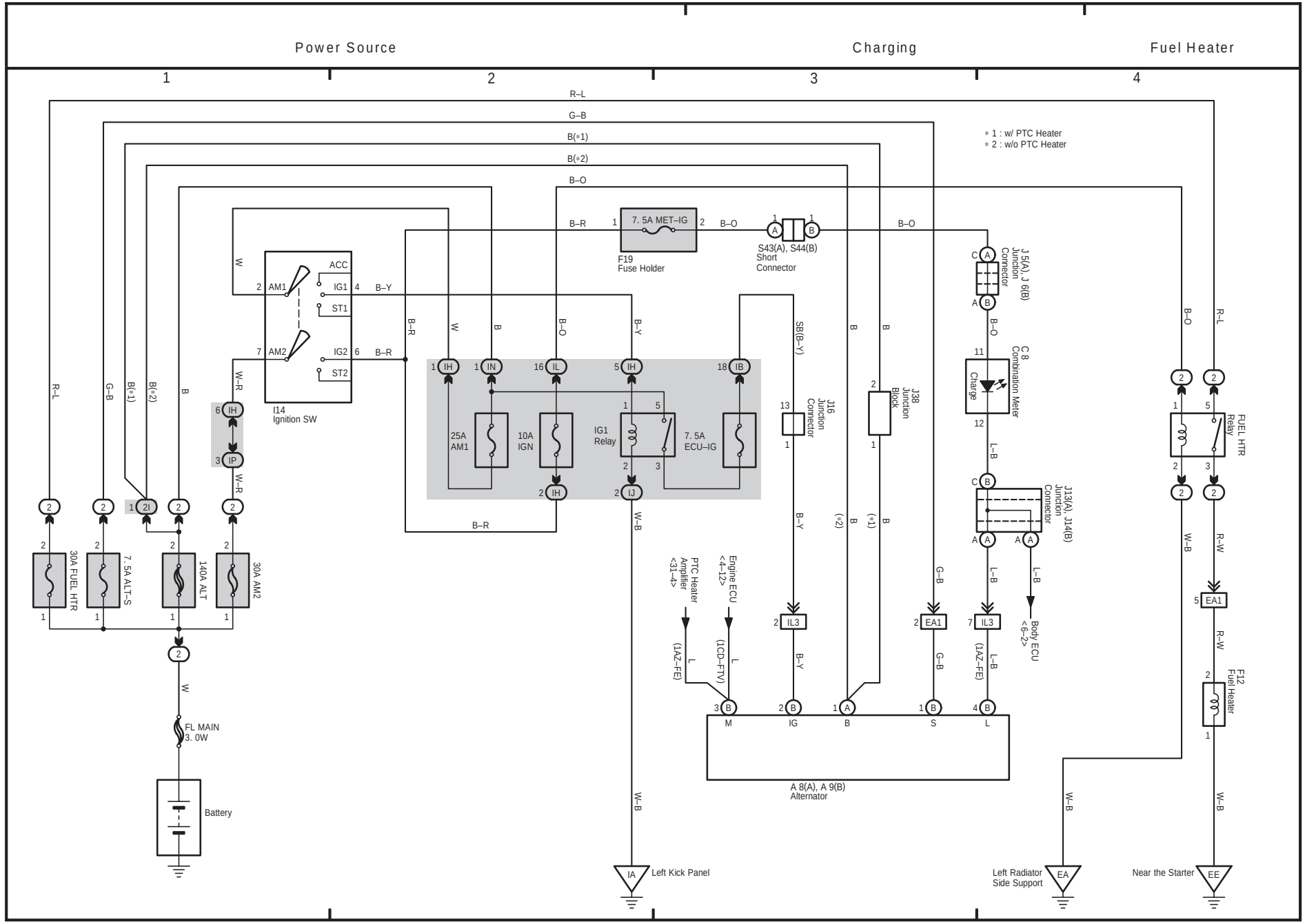
[K] : Indicates and located on ground point.

[L] : The same code occuring on the next page indicates that the wire harness is continuous.

Memo

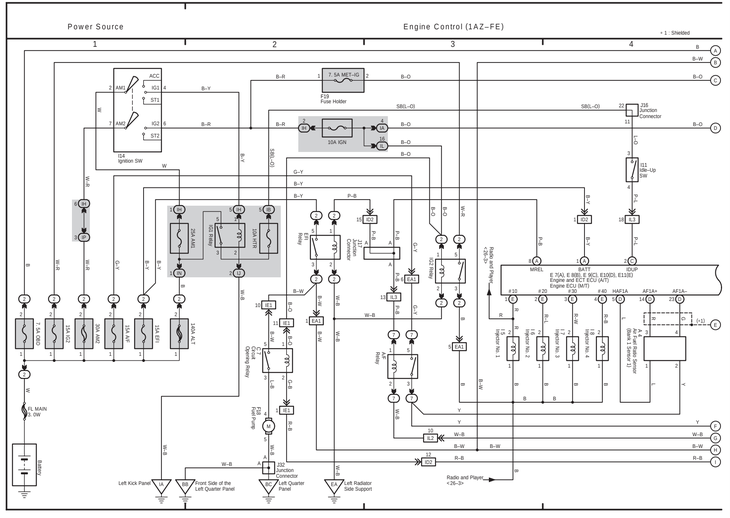
1 AVENSIS VERSO / PICNIC (LHD)




Power Source
Charging
Fuel Heater
1
2
3
4
R–L
G–B
B(*1)
B(*2)
B–O
* 1 : w/ PTC Heater
* 2 : w/o PTC Heater
B–R
7. 5A MET–IG
F19
Fuse Holder
S43(A), S44(B)
Short
Connector
J 5(A), J 6(B)
Junction
Connector
C 8
Combination Meter
Charge
J13(A), J14(B)
Junction
Connector
FUEL HTR
Relay
ACC
AM1
AM2
IG1
IG2
ST1
ST2
B–Y
W
W–R
I14
Ignition SW
IH
IP
IN
IL
IJ
IB
25A
AM1
10A
IGN
IG1
Relay
7. 5A
ECU–IG
SB(B–Y)
J16
Junction
Connector
J38
Junction
Block
L–B
W–B
R–W
30A FUEL HTR
7. 5A ALT–S
140A ALT
30A AM2
FL MAIN
3. 0W
Battery
PTC Heater
Amplifier
<31–4>
Engine ECU
<4–12>
(1AZ–FE)
(1CD–FTV)
IL3
EA1
Body ECU
<6–2>
M
IG
B
S
L
A 8(A), A 9(B)
Alternator
F12
Fuel Heater
IA
Left Kick Panel
EA
Left Radiator
Side Support
EE
Near the Starter

3 AVENSIS VERSO / PICNIC (LHD)

(Cont. next page)



4 AVENSIS VERSO / PICNIC (LHD)

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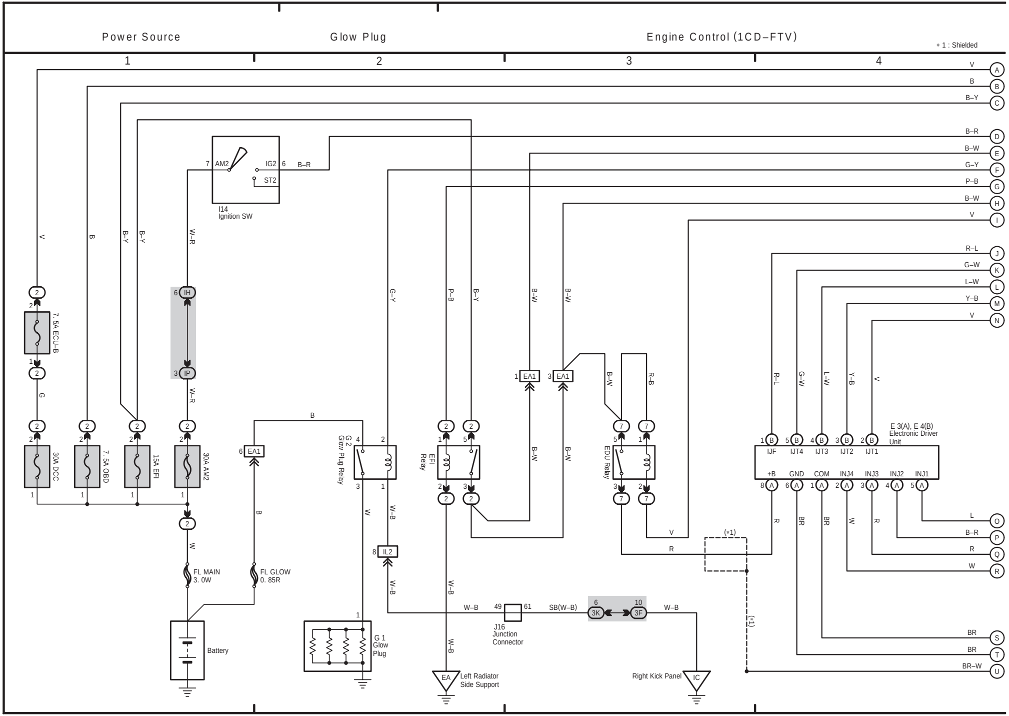
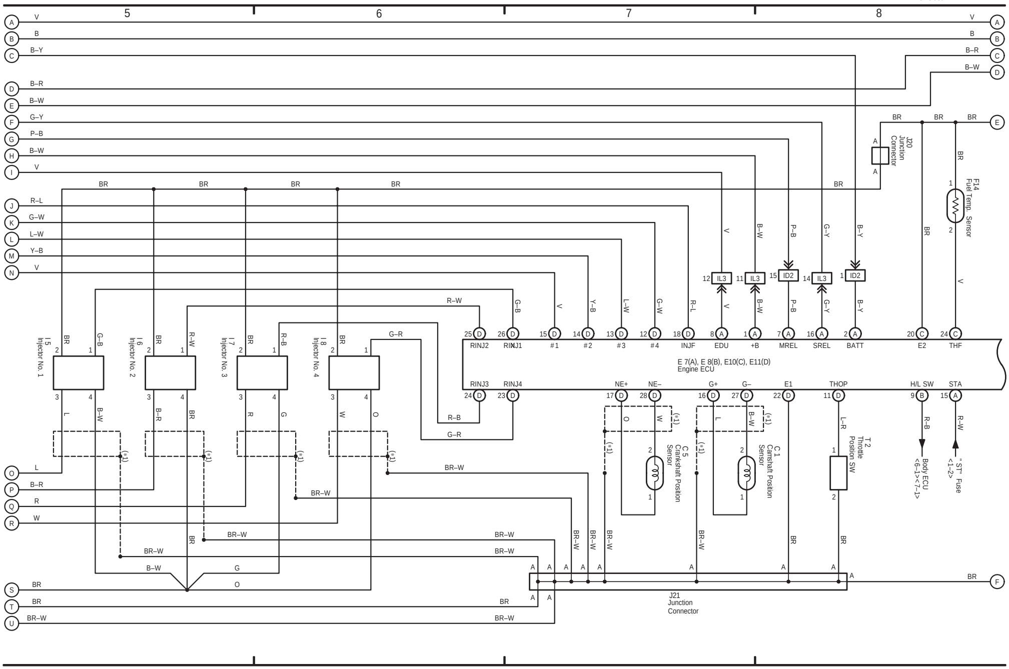

Power Source
Glow Plug
Engine Control (1CD–FTV)
＊1 : Shielded
1
2
3
4
V
B
B–Y
B–R
B–W
G–Y
P–B
B–W
V
R–L
G–W
L–W
Y–B
V
A
B
C
D
E
F
G
H
I
J
K
L
M
N
7 AM2
IG2 6
ST2
B–R
I14
Ignition SW
7.5A ECU–B
30A DCC
7.5A OBD
15A EFI
30A AM2
6 IH
3 IP
W–R
G
W
FL MAIN
3.0W
FL GLOW
0.85R
Battery
6 EA1
G 2
Glow Plug Relay
G 1
Glow
Plug
8 IL2
W–B
EFI
Relay
1 EA1
3 EA1
EDU Relay
R–B
E 3(A), E 4(B)
Electronic Driver
Unit
IJF
IJT4
IJT3
IJT2
IJT1
+B
GND
COM
INJ4
INJ3
INJ2
INJ1
R
BR
W
L
B–R
O
P
Q
R
(＊1)
49
61
J16
Junction
Connector
SB(W–B)
6 3K
10 3F
EA
Left Radiator
Side Support
Right Kick Panel
IC
BR
BR
BR–W
S
T
U

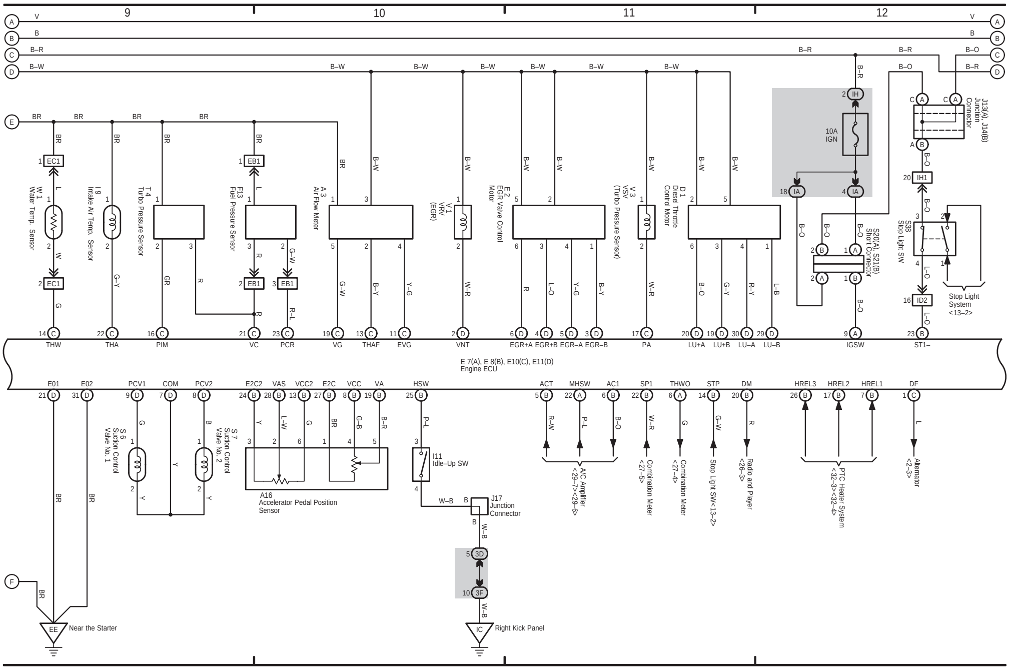
Engine Control (1CD−FTV)


＊1 : Shielded
5
6
7
8
A V
B B
C B–Y
D B–R
E B–W
F G–Y
G P–B
H B–W
I V
J R–L
K G–W
L L–W
M Y–B
N V
O L
P B–R
Q R
R W
S BR
T BR
U BR–W
V A
B B
B–R C
B–W D
BR E
BR F
I 5 Injector No. 1
I 6 Injector No. 2
I 7 Injector No. 3
I 8 Injector No. 4
J20 Junction Connector
F14 Fuel Temp. Sensor
IL3
ID2
RINJ2
RINJ1
#1
#2
#3
#4
INJF
EDU
+B
MREL
SREL
BATT
E2
THF
E 7(A), E 8(B), E10(C), E11(D) Engine ECU
RINJ3
RINJ4
NE+
NE–
G+
G–
E1
THOP
H/L SW
STA
(＊1)
C 5 Crankshaft Position Sensor
C 1 Camshaft Position Sensor
T 2 Throttle Position SW
Body ECU <6–1><7–1>
"ST" Fuse <1–2>
J21 Junction Connector
BR
BR–W
R–W
R–B
G–R
G–B
G
O

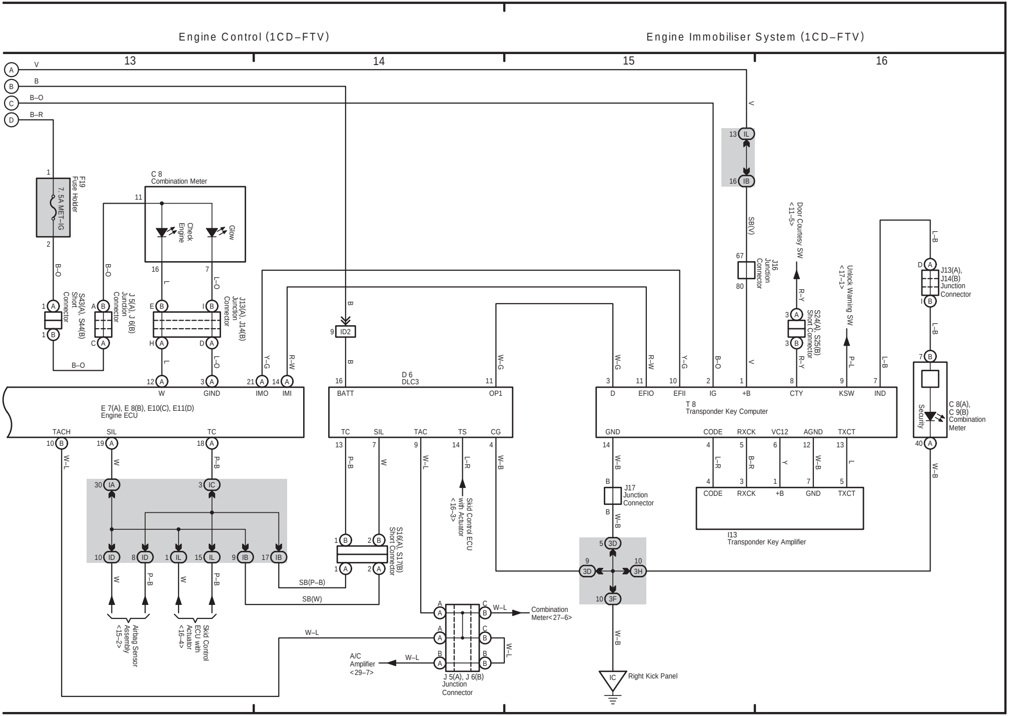
4 AVENSIS VERSO / PICNIC (LHD) (Cont' d)

(Cont. next page)

Engine Control (1CD–FTV)

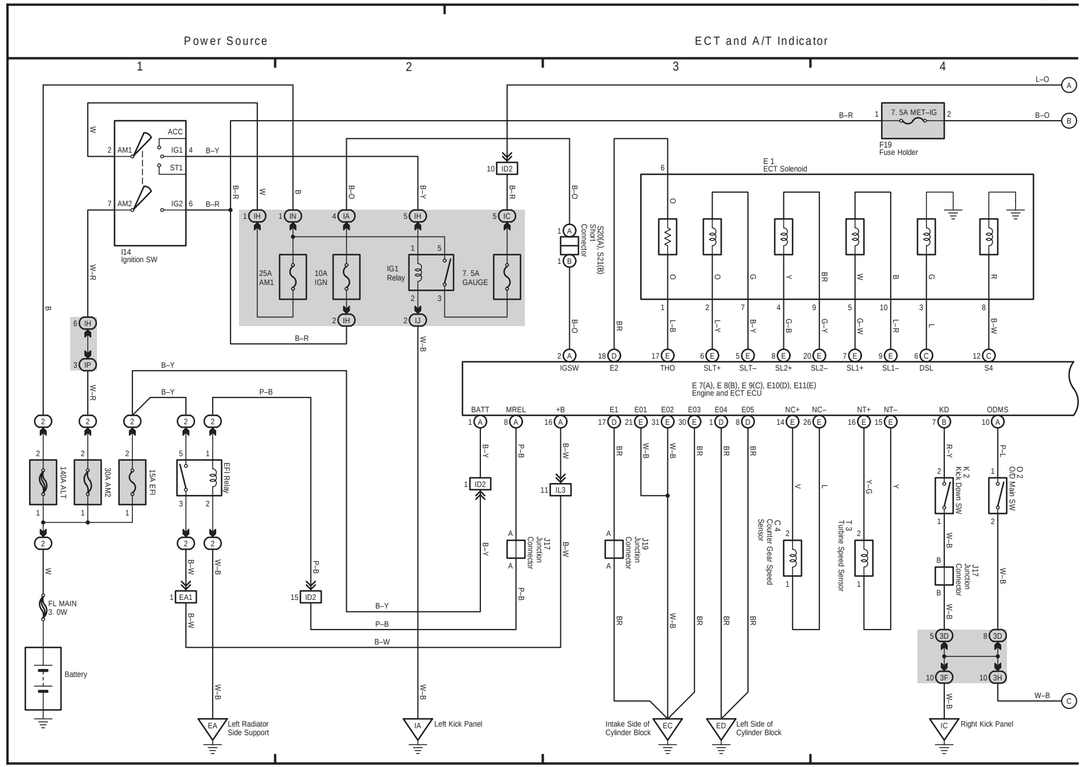

9
10
11
12
A V
B B
C B–R
D B–W
E BR
F BR
1 EC1
2 EC1
W 1 Water Temp. Sensor
I 9 Intake Air Temp. Sensor
T 4 Turbo Pressure Sensor
F13 Fuel Pressure Sensor
1 EB1
2 EB1
3 EB1
A 3 Air Flow Meter
V 1 VRV (EGR)
E 2 EGR Valve Control Motor
V 3 VSV (Turbo Pressure Sensor)
D 1 Diesel Throttle Control Motor
10A IGN
2 IH
18 IA
4 IA
S20(A), S21(B) Short Connector
S38 Stop Light SW
J13(A), J14(B) Junction Connector
20 IH1
16 ID2
Stop Light System <13–2>
THW
THA
PIM
VC
PCR
VG
THAF
EVG
VNT
EGR+A
EGR+B
EGR–A
EGR–B
PA
LU+A
LU+B
LU–A
LU–B
IGSW
ST1–
E 7(A), E 8(B), E10(C), E11(D) Engine ECU
E01
E02
PCV1
COM
PCV2
E2C2
VAS
VCC2
E2C
VCC
VA
HSW
ACT
MHSW
AC1
SP1
THWO
STP
DM
HREL3
HREL2
HREL1
DF
S 6 Suction Control Valve No. 1
S 7 Suction Control Valve No. 2
A16 Accelerator Pedal Position Sensor
I11 Idle–Up SW
J17 Junction Connector
5 3D
10 3F
A/C Amplifier <29–7><29–6>
Combination Meter <27–5>
Combination Meter <27–4>
Stop Light SW<13–2>
Radio and Player <26–3>
PTC Heater System <32–3><32–4>
Alternator <2–3>
EE Near the Starter
IC Right Kick Panel

4 AVENSIS VERSO / PICNIC (LHD) (Cont' d)

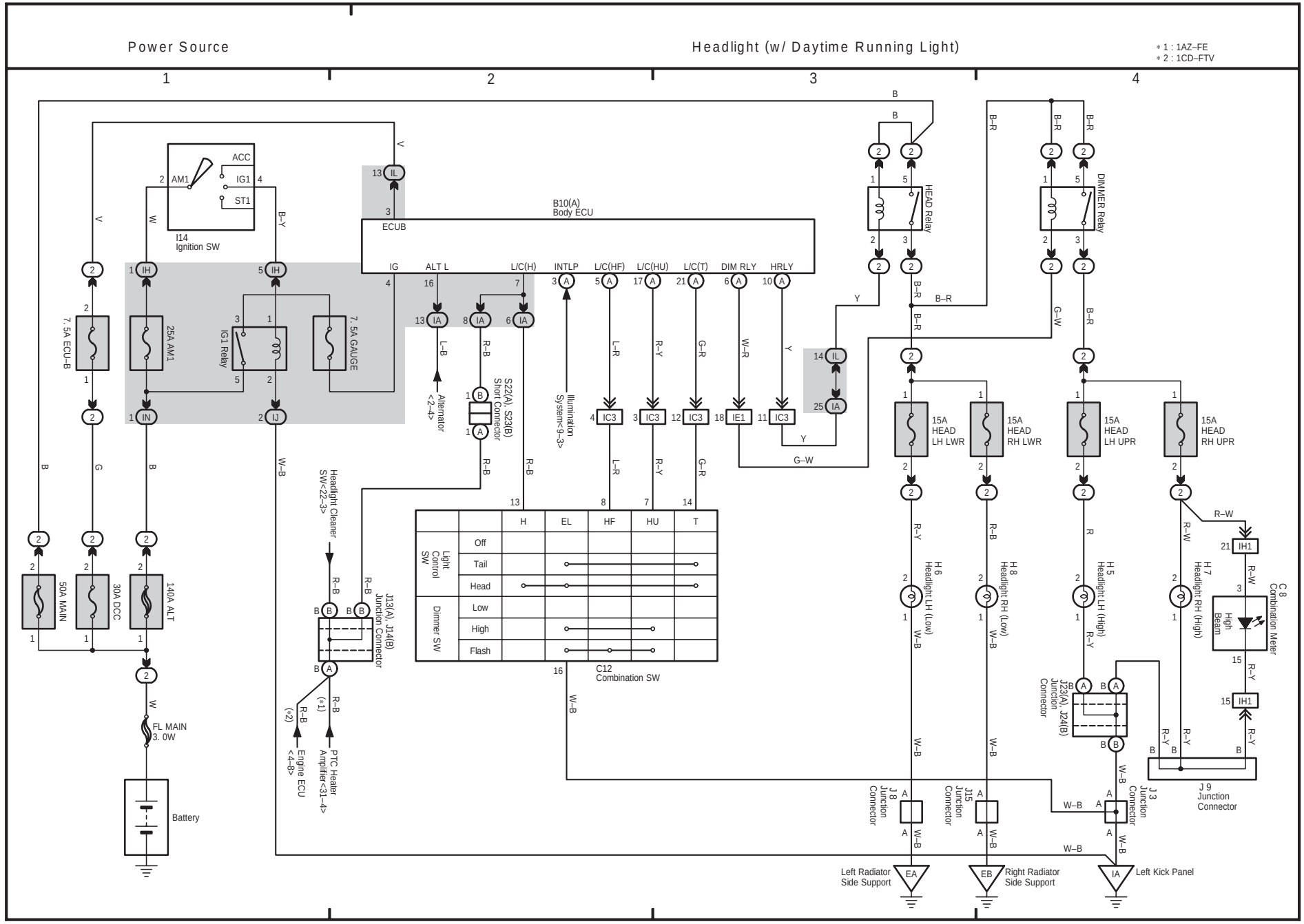

Engine Control (1CD–FTV)
Engine Immobiliser System (1CD–FTV)
13
14
15
16
A V
B B
C B–O
D B–R
F19 Fuse Holder
7. 5A MET–IG
S43(A), S44(B) Short Connector
J 5(A), J 6(B) Junction Connector
C 8 Combination Meter
Check Engine
Glow
J13(A), J14(B) Junction Connector
E 7(A), E 8(B), E10(C), E11(D) Engine ECU
W
GIND
IMO
IMI
TACH
SIL
TC
ID2
D 6 DLC3
BATT
OP1
TC
SIL
TAC
TS
CG
Skid Control ECU with Actuator <16–3>
S16(A), S17(B) Short Connector
SB(P–B)
SB(W)
Airbag Sensor Assembly <15–2>
Skid Control ECU with Actuator <16–4>
W–L
Combination Meter<27–6>
A/C Amplifier <29–7>
J 5(A), J 6(B) Junction Connector
J16 Junction Connector
SB(V)
Door Courtesy SW <11–5>
S24(A), S25(B) Short Connector
Unlock Warning SW <17–1>
J13(A), J14(B) Junction Connector
T 8 Transponder Key Computer
D
EFIO
EFII
IG
+B
CTY
KSW
IND
GND
CODE
RXCK
VC12
AGND
TXCT
I13 Transponder Key Amplifier
CODE
RXCK
+B
GND
TXCT
J17 Junction Connector
W–B
Right Kick Panel
IC
C 8(A), C 9(B) Combination Meter
Security

5 AVENSIS VERSO / PICNIC (LHD)

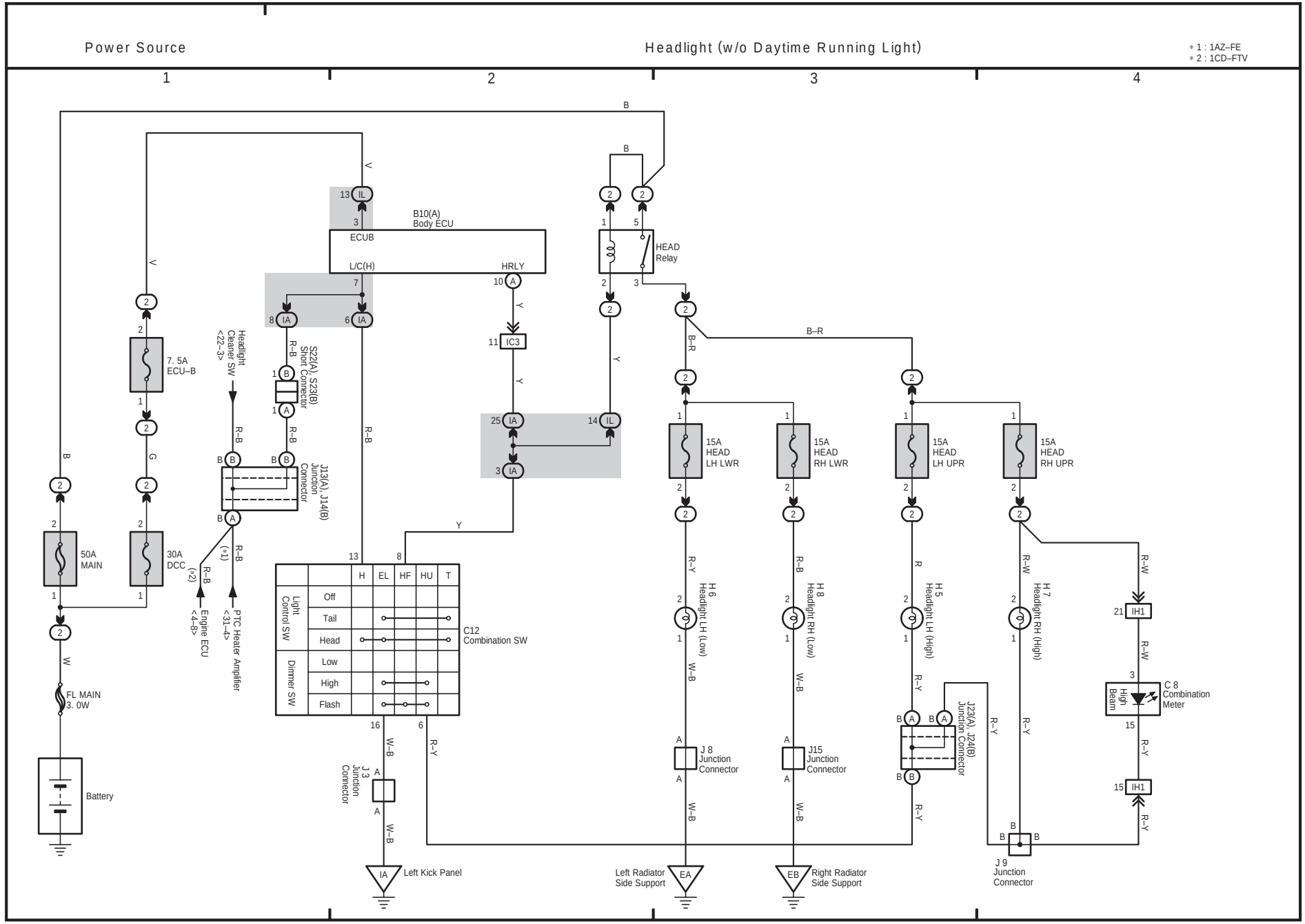
(Cont. next page)



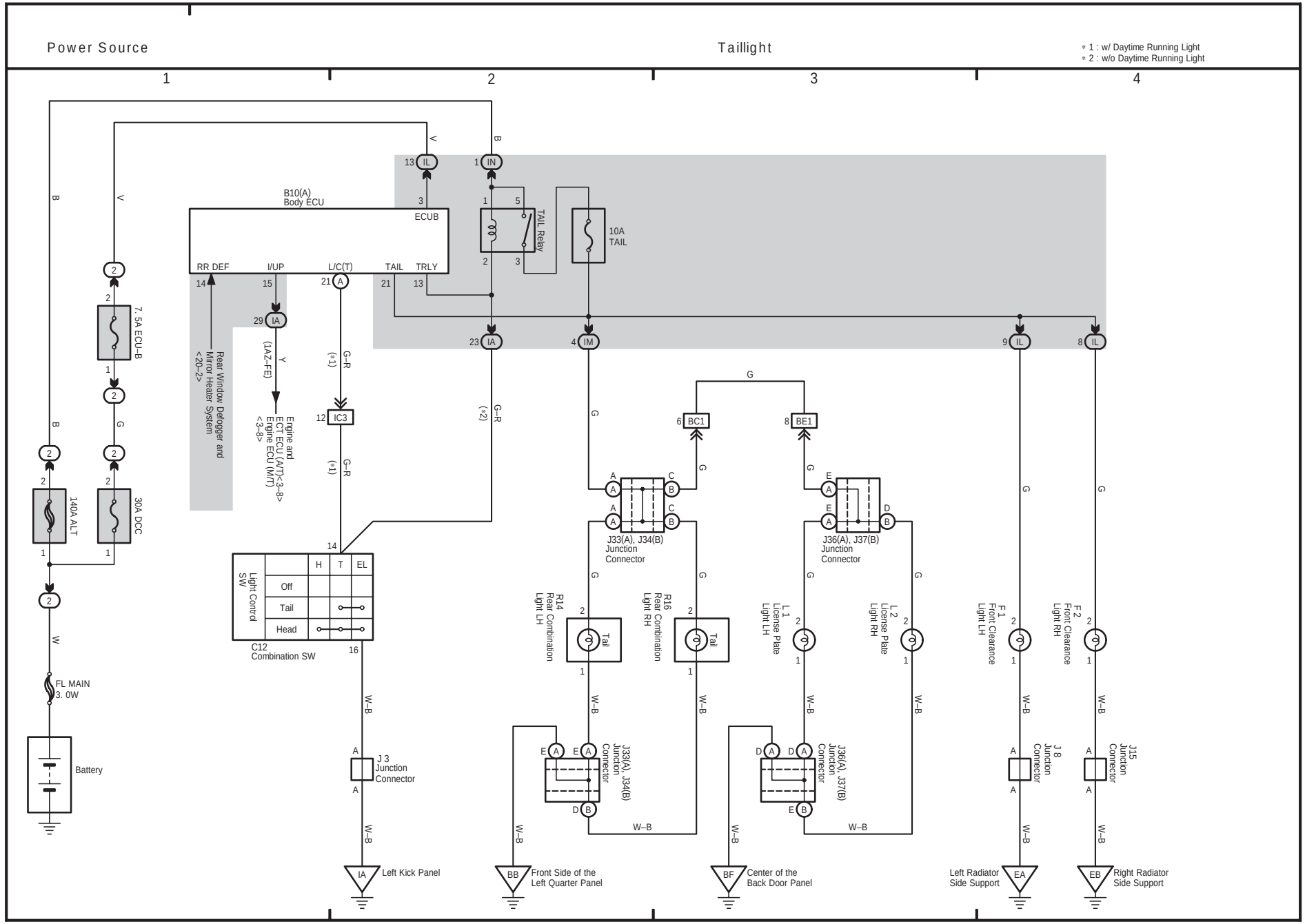
6 AVENSIS VERSO / PICNIC (LHD)

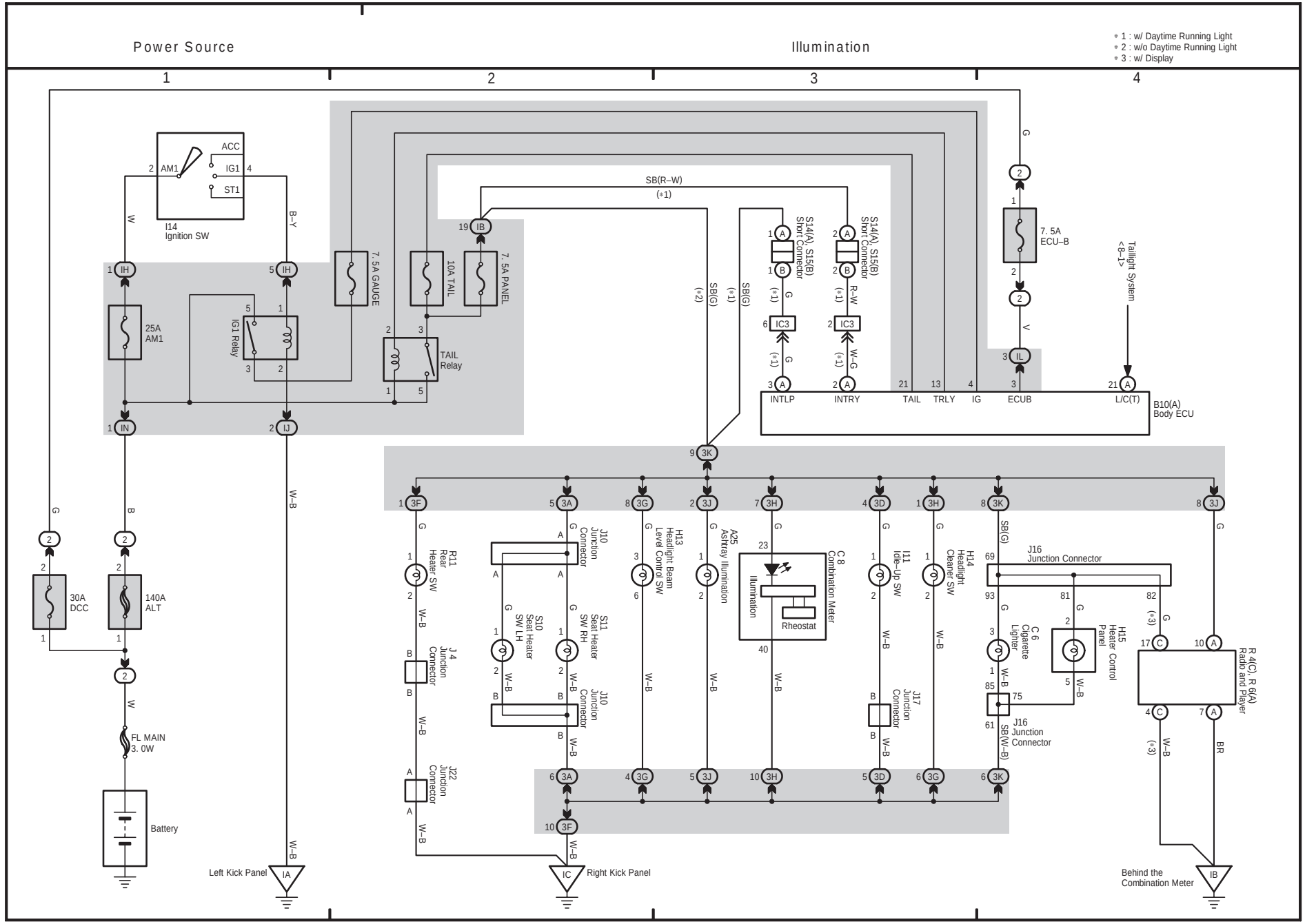


PICNIC (EWD450E)

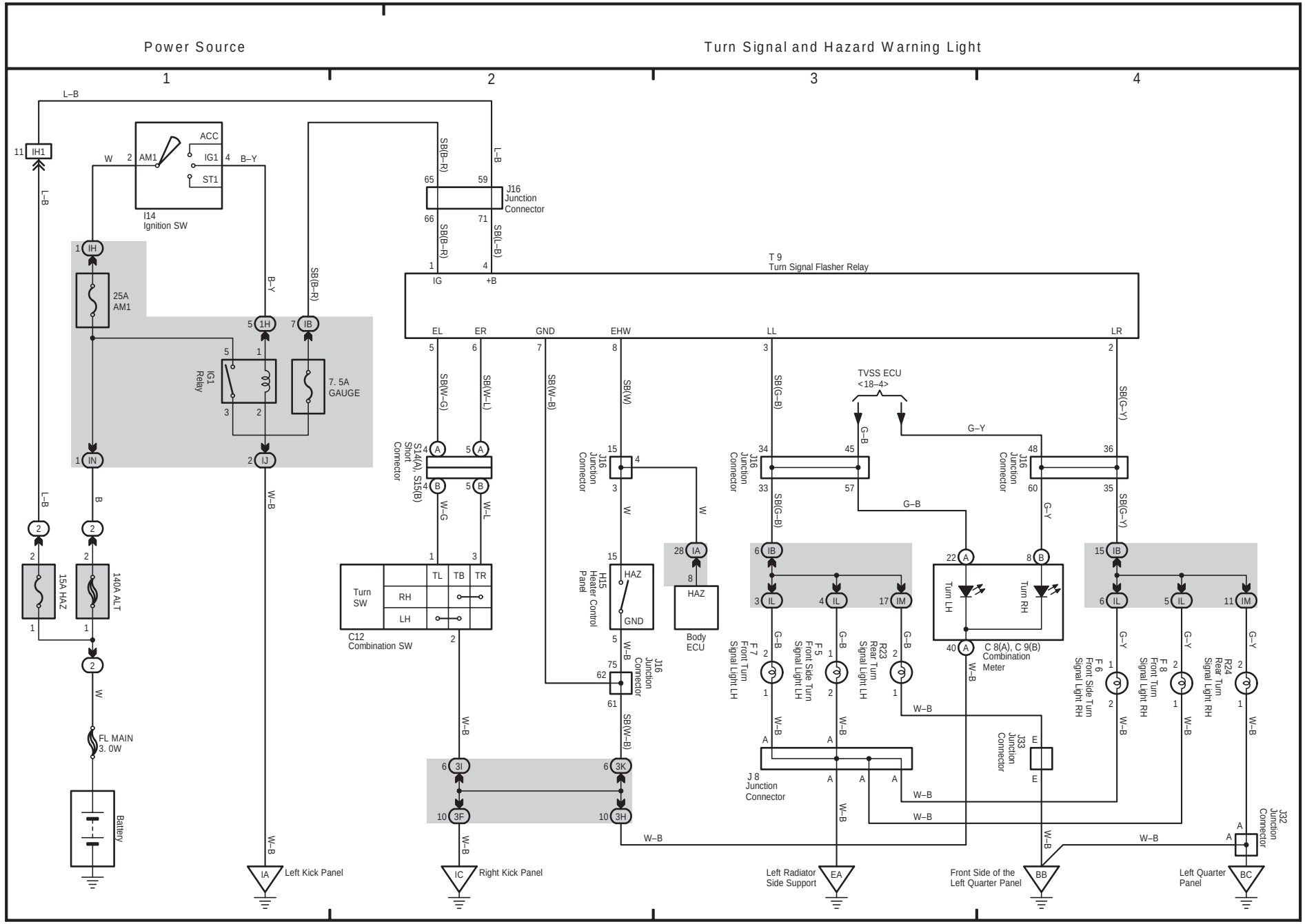

Power Source
Headlight (w/o Daytime Running Light)
1
2
3
4
* 1 : 1AZ–FE
* 2 : 1CD–FTV
B10(A)
Body ECU
ECUB
L/C(H)
HRLY
HEAD
Relay
7. 5A
ECU–B
50A
MAIN
30A
DCC
FL MAIN
3. 0W
Battery
Headlight
Cleaner SW
<22–3>
S22(A), S23(B)
Short Connector
J13(A), J14(B)
Junction
Connector
(*1)
(*2)
Engine ECU
<4–8>
PTC Heater Amplifier
<31–4>
C12
Combination SW
Light
Control SW
Dimmer SW
Off
Tail
Head
Low
High
Flash
H
EL
HF
HU
T
J 3
Junction
Connector
Left Kick Panel
15A
HEAD
LH LWR
15A
HEAD
RH LWR
15A
HEAD
LH UPR
15A
HEAD
RH UPR
H 6
Headlight LH (Low)
H 8
Headlight RH (Low)
H 5
Headlight LH (High)
H 7
Headlight RH (High)
J 8
Junction
Connector
J15
Junction
Connector
J23(A), J24(B)
Junction Connector
J 9
Junction
Connector
C 8
Combination
Meter
High
Beam
Left Radiator
Side Support
Right Radiator
Side Support
EA
EB
IA
IC3
IH1
IL

8 AVENSIS VERSO / PICNIC (LHD)




Power Source
Illumination
* 1 : w/ Daytime Running Light
* 2 : w/o Daytime Running Light
* 3 : w/ Display
1
2
3
4
ACC
AM1
IG1
ST1
I14
Ignition SW
25A
AM1
IG1 Relay
7. 5A GAUGE
10A TAIL
7. 5A PANEL
TAIL
Relay
SB(R–W)
(*1)
S14(A), S15(B)
Short Connector
SB(G)
(*2)
(*1)
IC3
INTLP
INTRY
TAIL
TRLY
IG
ECUB
L/C(T)
B10(A)
Body ECU
7. 5A
ECU–B
Taillight System
<8–1>
30A
DCC
140A
ALT
FL MAIN
3. 0W
Battery
Left Kick Panel
IA
Right Kick Panel
IC
R11
Rear
Heater SW
S10
Seat Heater
SW LH
S11
Seat Heater
SW RH
J10
Junction
Connector
J4
Junction
Connector
J22
Junction
Connector
H13
Headlight Beam
Level Control SW
A25
Ashtray Illumination
C 8
Combination Meter
Illumination
Rheostat
I11
Idle–Up SW
J17
Junction
Connector
H14
Headlight
Cleaner SW
J16
Junction Connector
C 6
Cigarette
Lighter
H15
Heater Control
Panel
J16
Junction
Connector
R 4(C), R 6(A)
Radio and Player
Behind the
Combination Meter
IB

10 AVENSIS VERSO / PICNIC (LHD)



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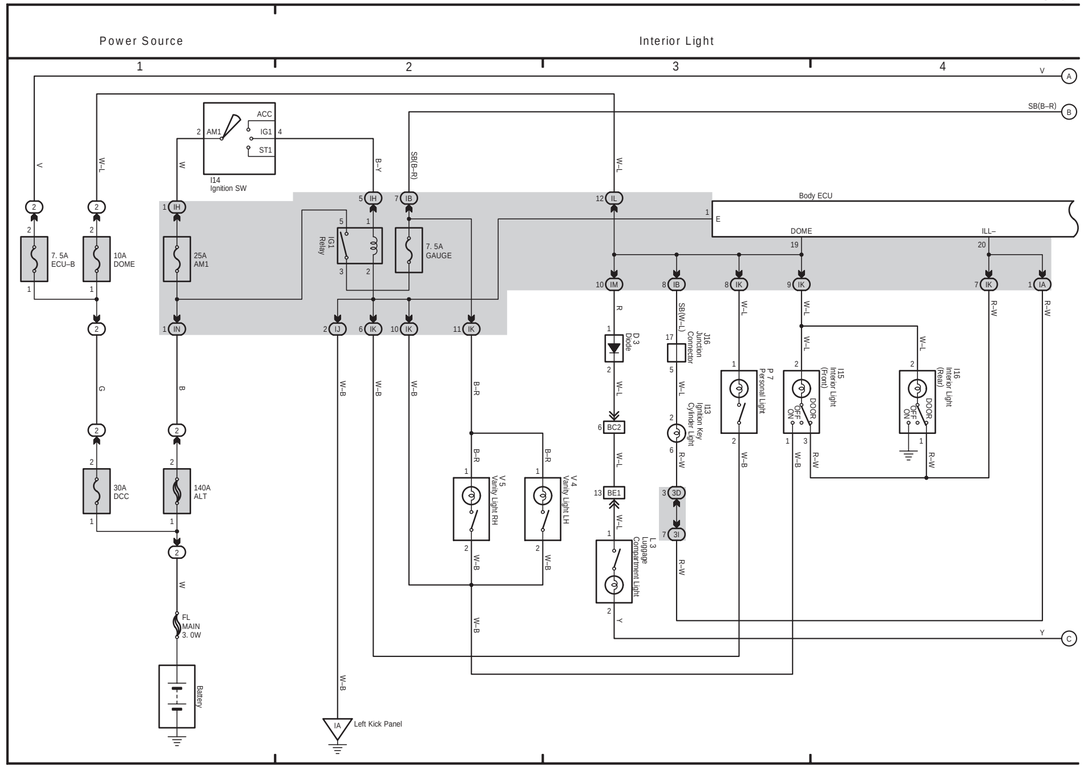
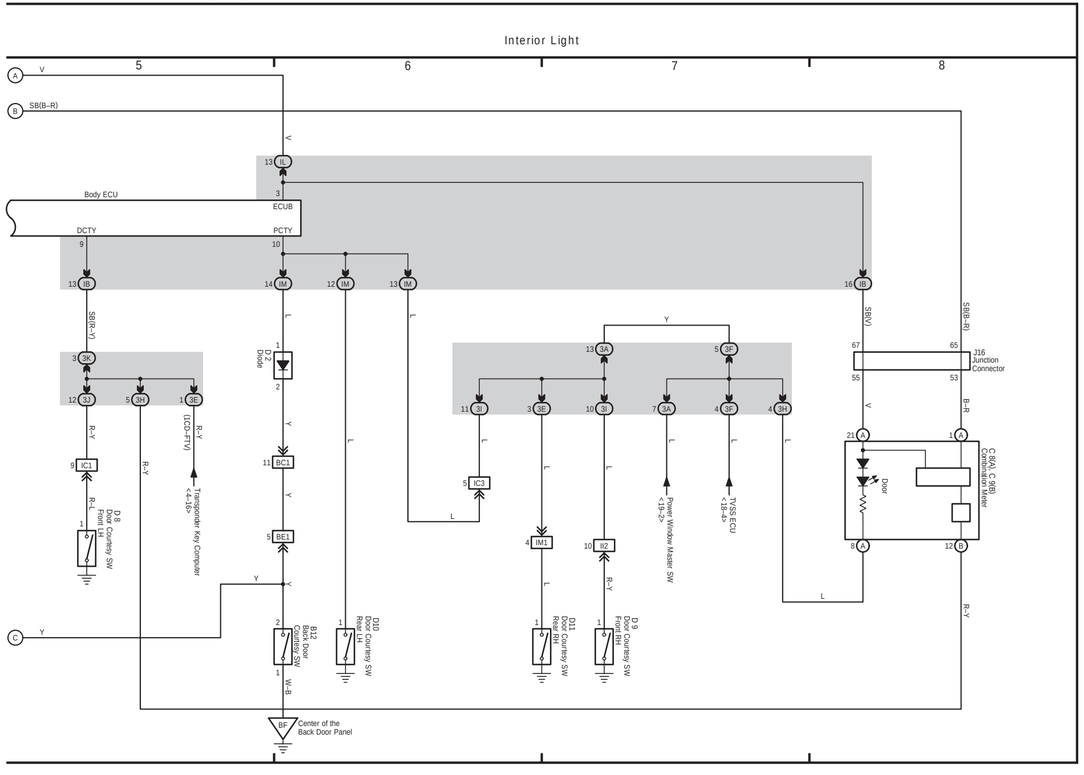
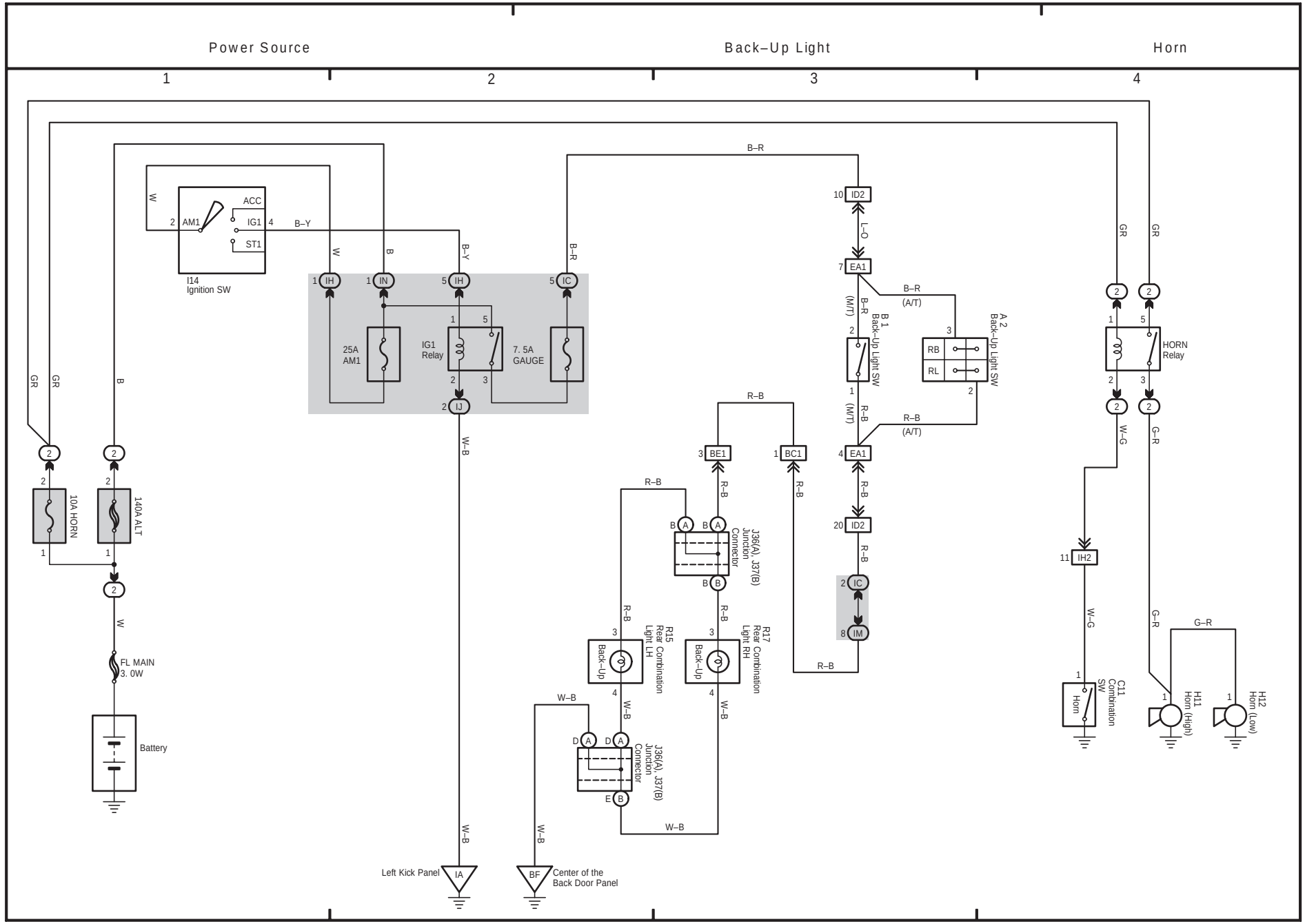
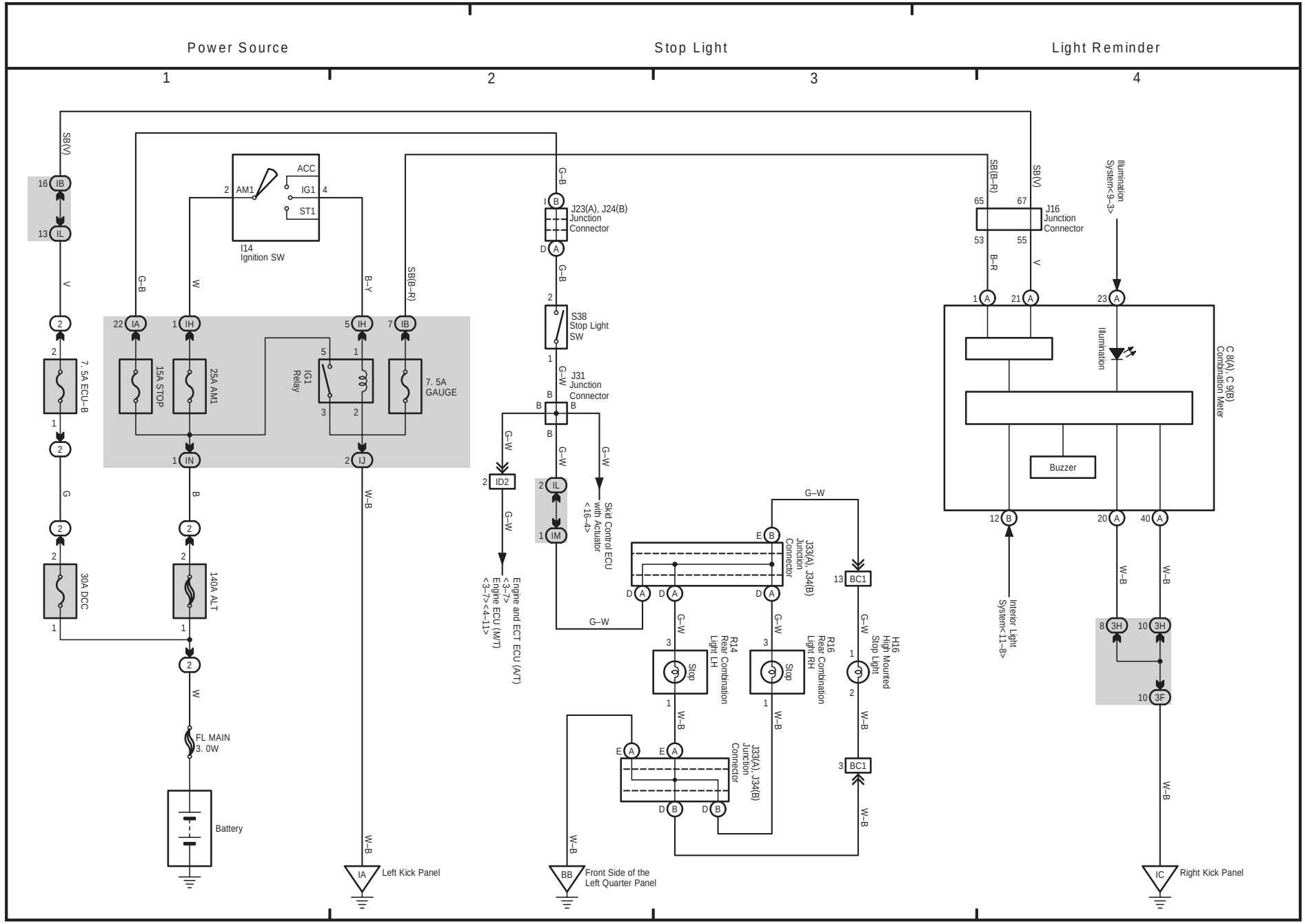


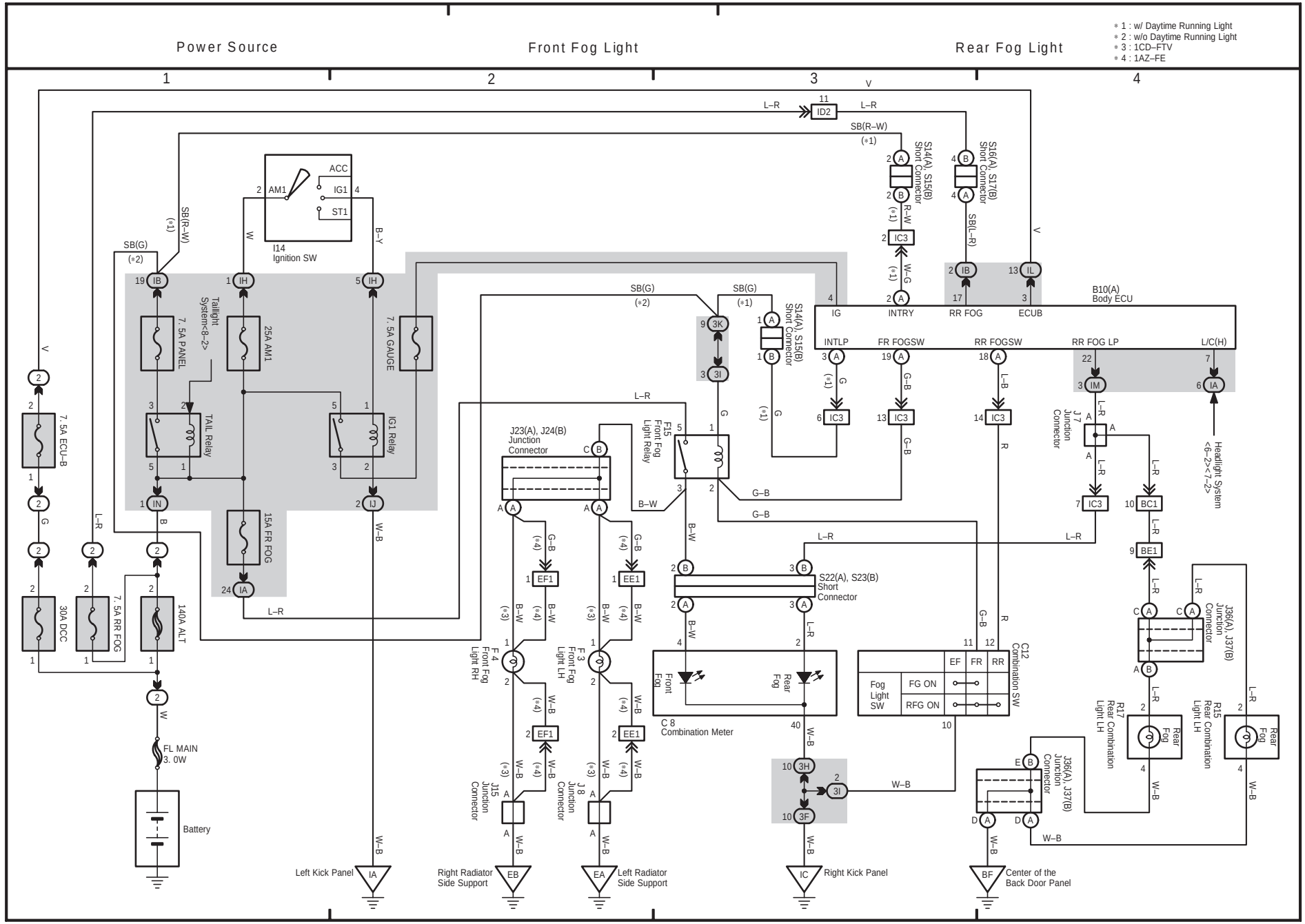


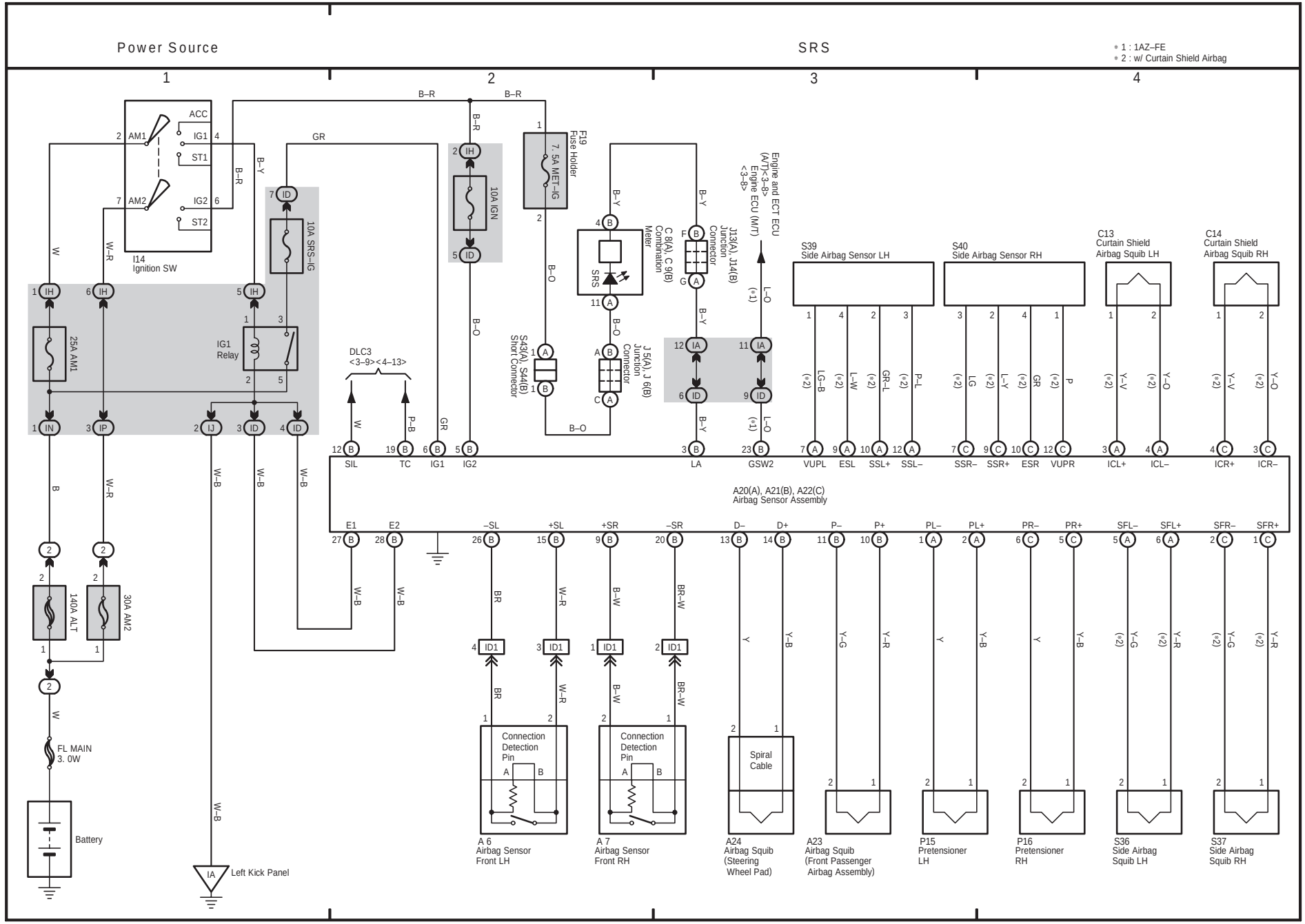
12 AVENSIS VERSO / PICNIC (LHD)



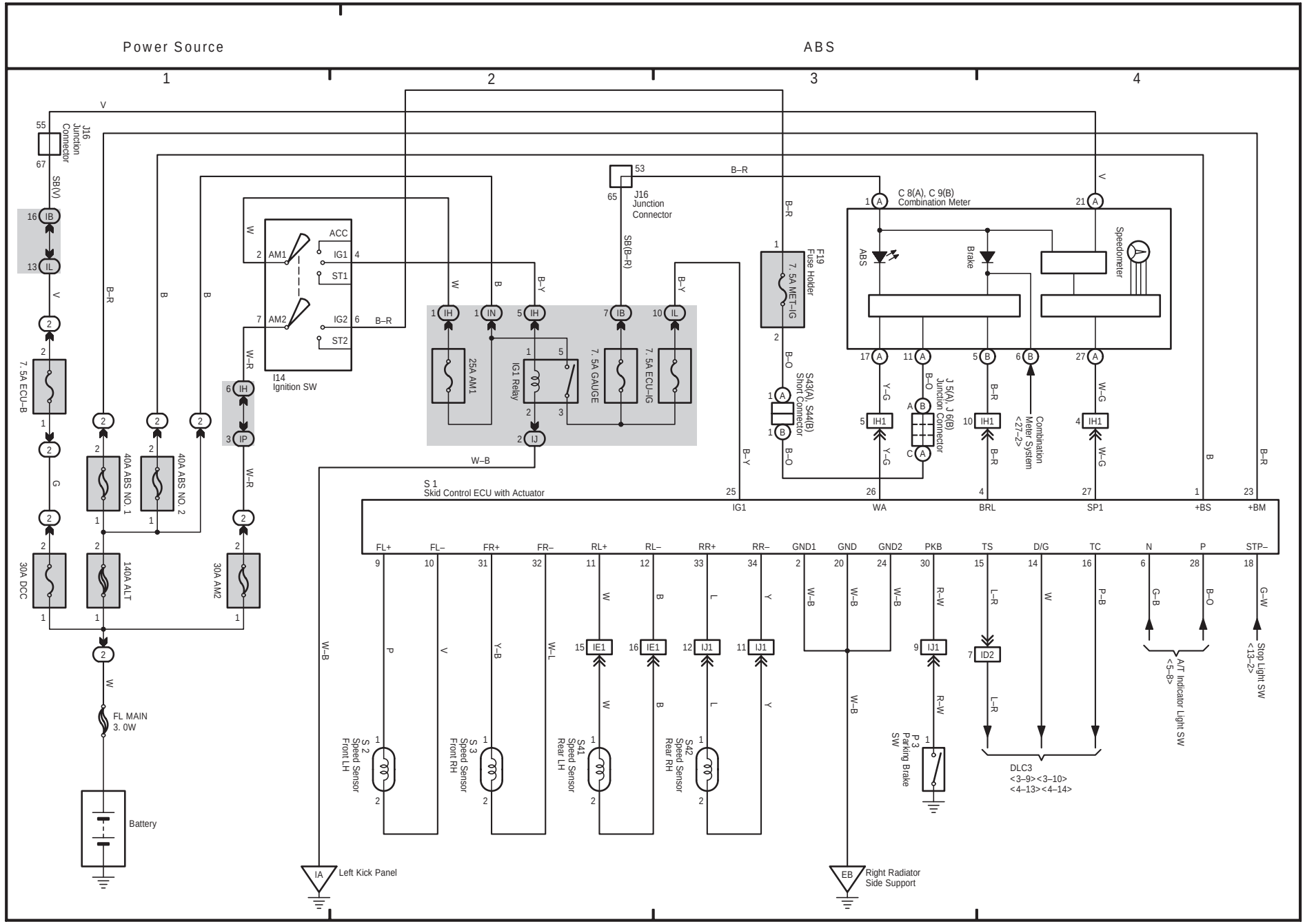

Power Source
Stop Light
Light Reminder
1
2
3
4
SB(V)
16 IB
13 IL
2
7. 5A ECU–B
1
2
G
2
30A DCC
1
2
W
FL MAIN
3. 0W
Battery
ACC
2 AM1
IG1 4
ST1
I14
Ignition SW
G–B
W
B–Y
SB(B–R)
22 IA
1 IH
5 IH
7 IB
15A STOP
25A AM1
IG1
Relay
7. 5A
GAUGE
1 IN
2 IJ
B
W–B
IA
Left Kick Panel
G–B
I B
J23(A), J24(B)
Junction
Connector
D A
G–B
2
S38
Stop Light
SW
1
G–W
J31
Junction
Connector
B B
B
G–W
2 ID2
G–W
Engine and ECT ECU (A/T)
<3–7>
Engine ECU (M/T)
<3–7><4–11>
2 IL
1 IM
Skid Control ECU
with Actuator
<16–4>
G–W
E B
J33(A), J34(B)
Junction
Connector
D A D A D A
G–W
3
Stop
1
W–B
R14
Rear Combination
Light LH
R16
Rear Combination
Light RH
E A E A
J33(A), J34(B)
Junction
Connector
D B D B
W–B
BB
Front Side of the
Left Quarter Panel
13 BC1
G–W
1
2
W–B
H16
High Mounted
Stop Light
3 BC1
W–B
SB(B–R)
SB(V)
65
67
J16
Junction
Connector
53
55
B–R
V
1 A
21 A
23 A
Illumination
System<9–3>
Illumination
Buzzer
C 8(A), C 9(B)
Combination Meter
12 B
20 A
40 A
Interior Light
System<11–8>
W–B
8 3H
10 3H
10 3F
W–B
IC
Right Kick Panel

14 AVENSIS VERSO / PICNIC (LHD)




Power Source
SRS
* 1 : 1AZ–FE
* 2 : w/ Curtain Shield Airbag
1
2
3
4
ACC
IG1
ST1
IG2
ST2
AM1
AM2
I14
Ignition SW
10A SRS–IG
10A IGN
F19
Fuse Holder
7. 5A MET–IG
25A AM1
IG1
Relay
DLC3
<3–9><4–13>
S43(A), S44(B)
Short Connector
C 8(A), C 9(B)
Combination
Meter
J 5(A), J 6(B)
Junction
Connector
J13(A), J14(B)
Junction
Connector
Engine and ECT ECU
(A/T)<3–8>
Engine ECU (M/T)
<3–8>
(*1)
S39
Side Airbag Sensor LH
S40
Side Airbag Sensor RH
C13
Curtain Shield
Airbag Squib LH
C14
Curtain Shield
Airbag Squib RH
(*2)
SIL
TC
IG1
IG2
LA
GSW2
VUPL
ESL
SSL+
SSL–
SSR–
SSR+
ESR
VUPR
ICL+
ICL–
ICR+
ICR–
A20(A), A21(B), A22(C)
Airbag Sensor Assembly
E1
E2
–SL
+SL
+SR
–SR
D–
D+
P–
P+
PL–
PL+
PR–
PR+
SFL–
SFL+
SFR–
SFR+
140A ALT
30A AM2
FL MAIN
3. 0W
Battery
Left Kick Panel
Connection
Detection
Pin
Spiral
Cable
A 6
Airbag Sensor
Front LH
A 7
Airbag Sensor
Front RH
A24
Airbag Squib
(Steering
Wheel Pad)
A23
Airbag Squib
(Front Passenger
Airbag Assembly)
P15
Pretensioner
LH
P16
Pretensioner
RH
S36
Side Airbag
Squib LH
S37
Side Airbag
Squib RH

16 AVENSIS VERSO / PICNIC (LHD)



17 AVENSIS VERSO / PICNIC (LHD)

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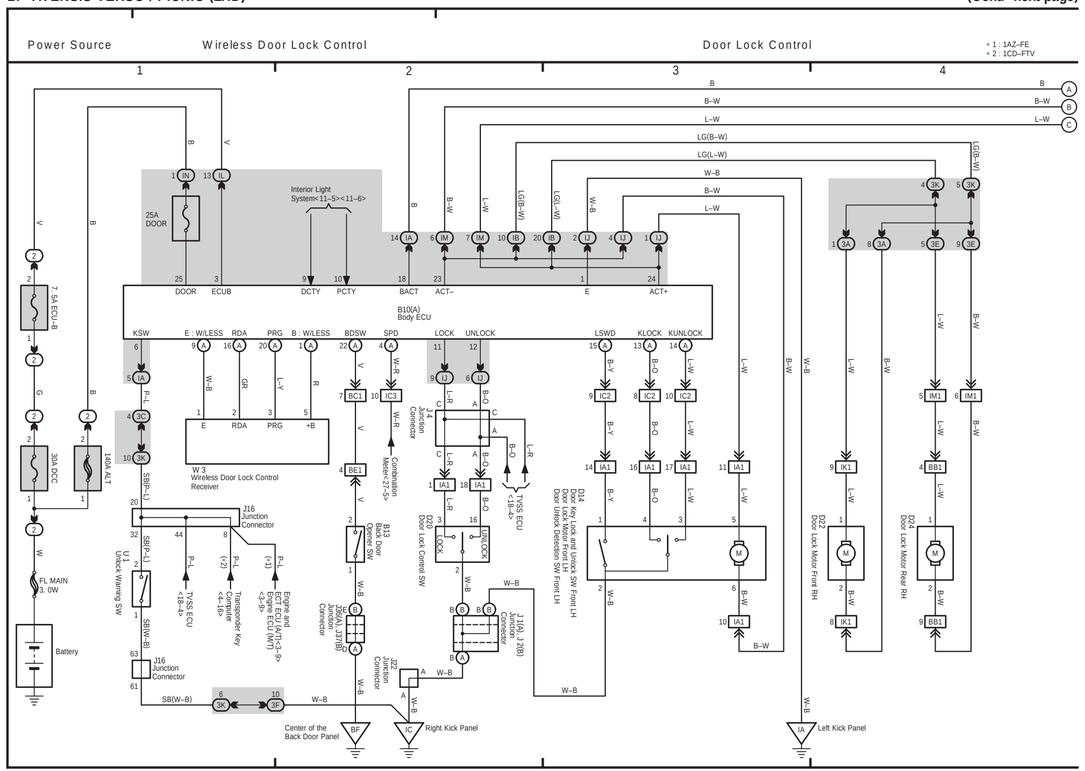
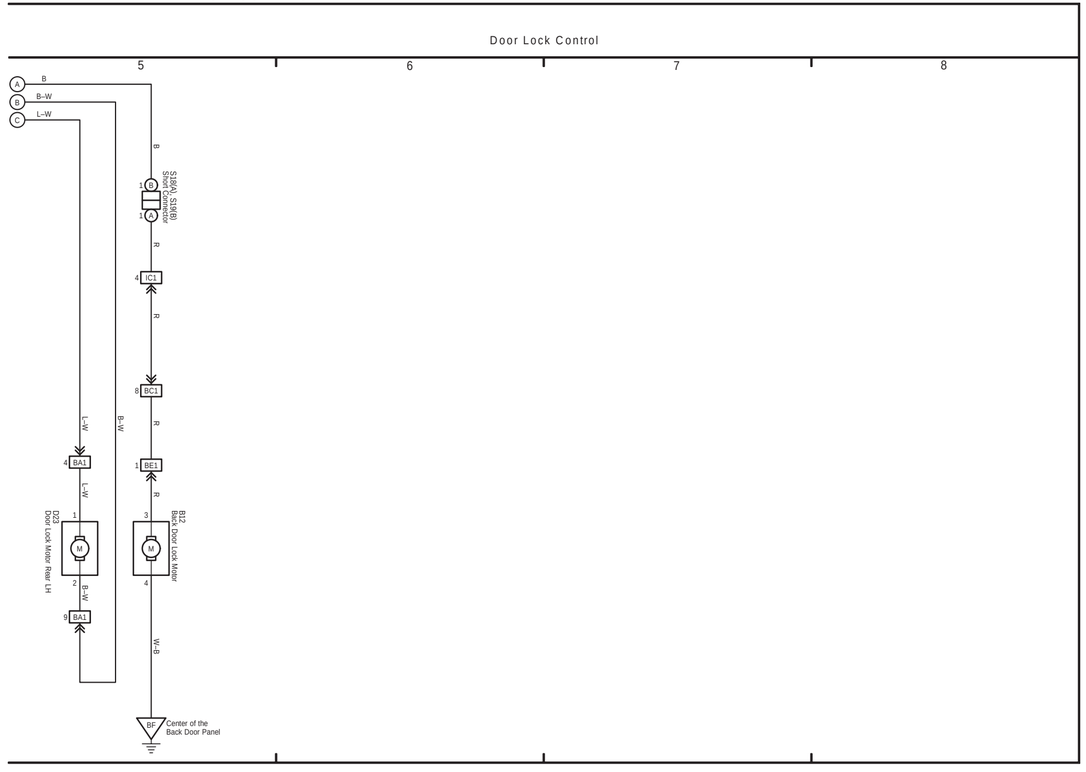
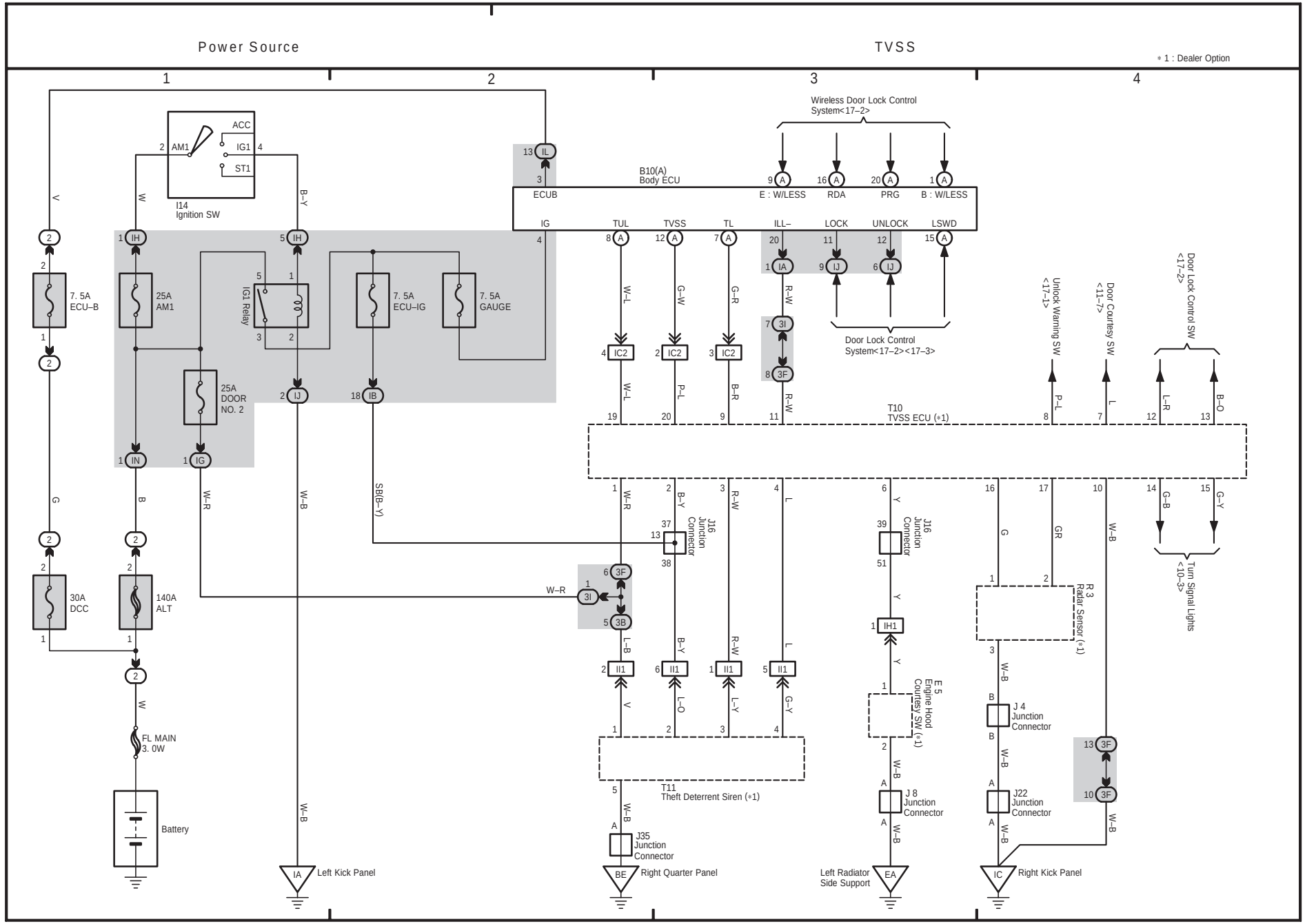




18 AVENSIS VERSO / PICNIC (LHD)



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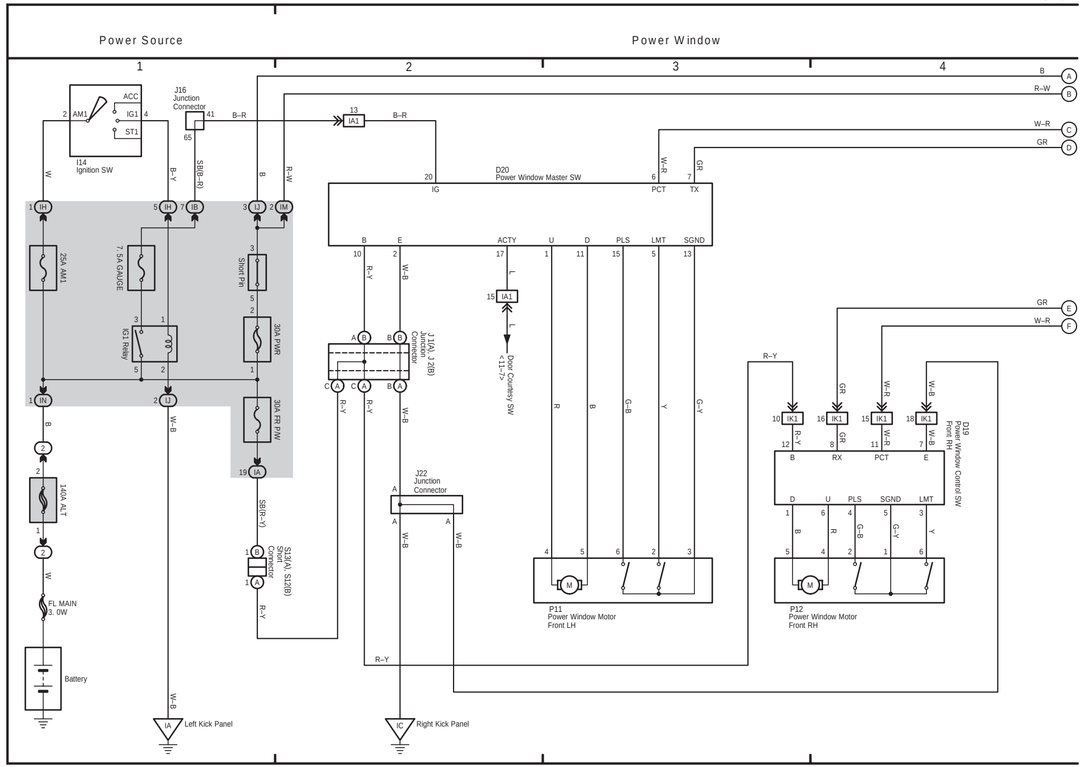
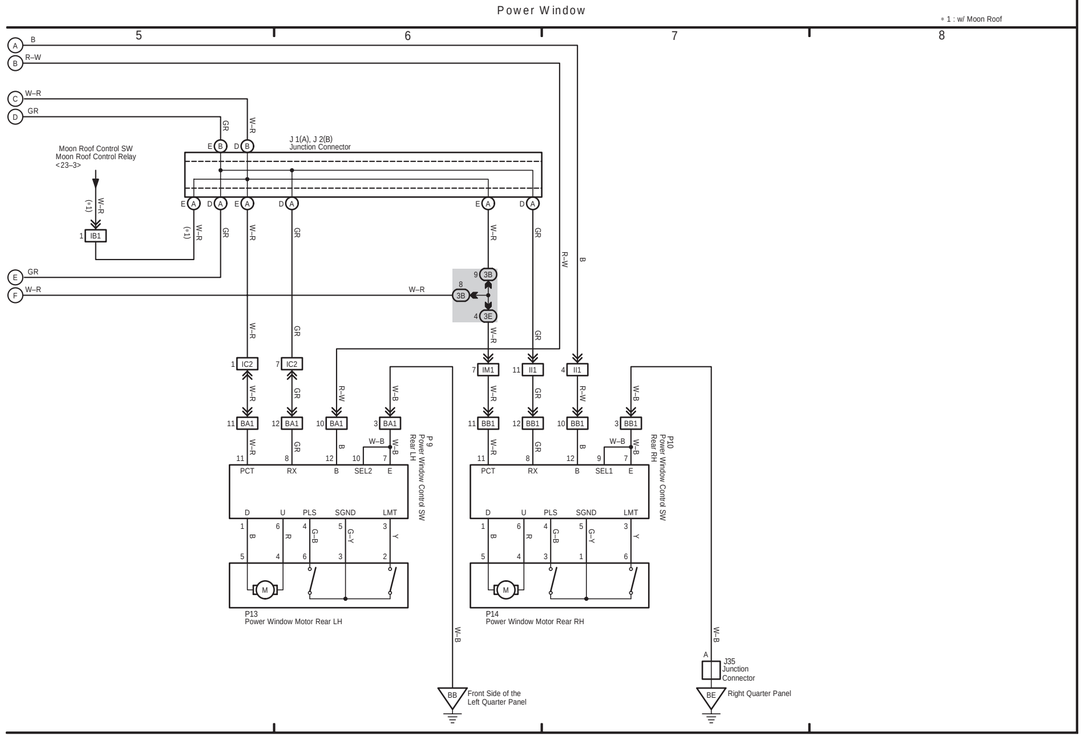
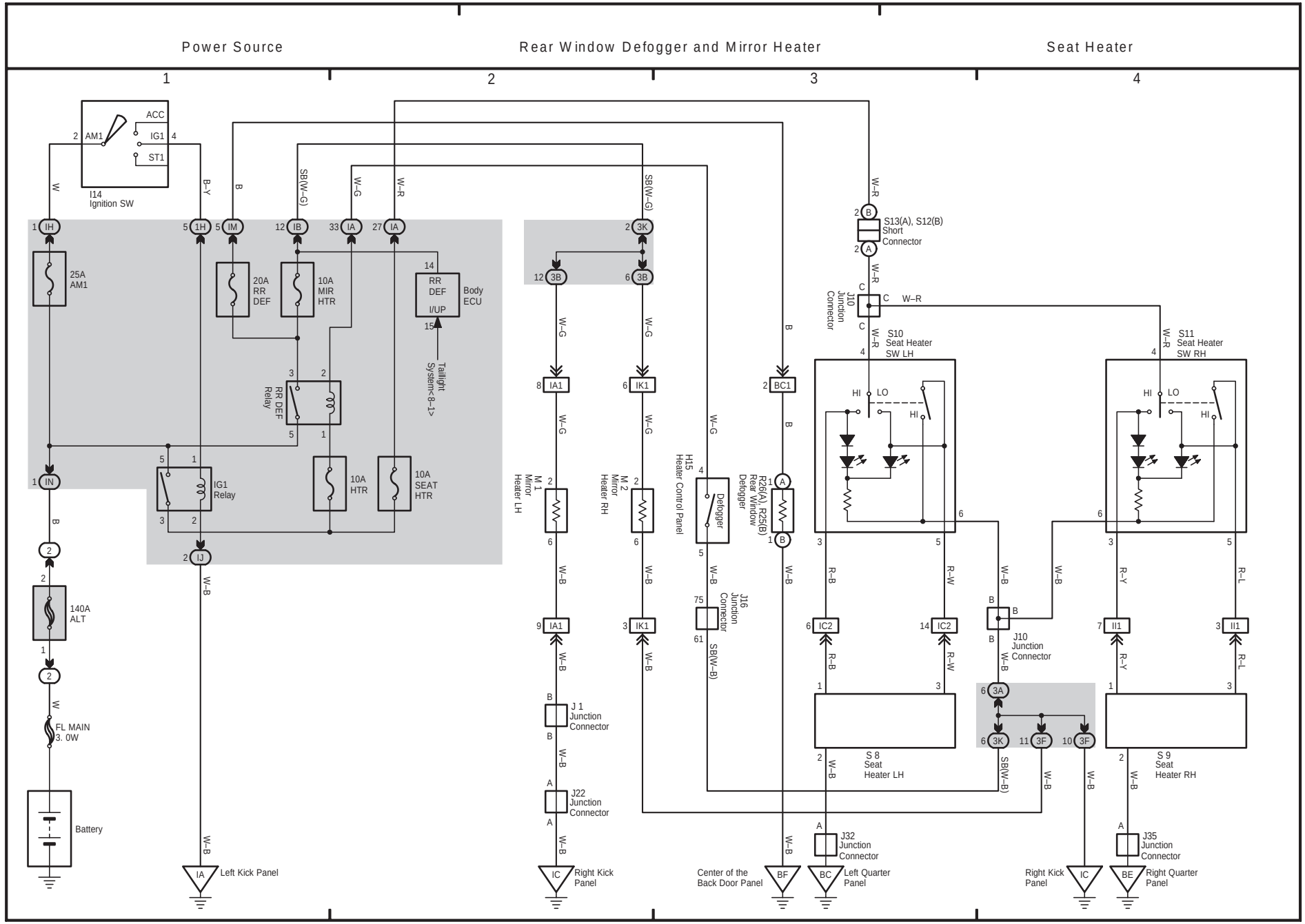
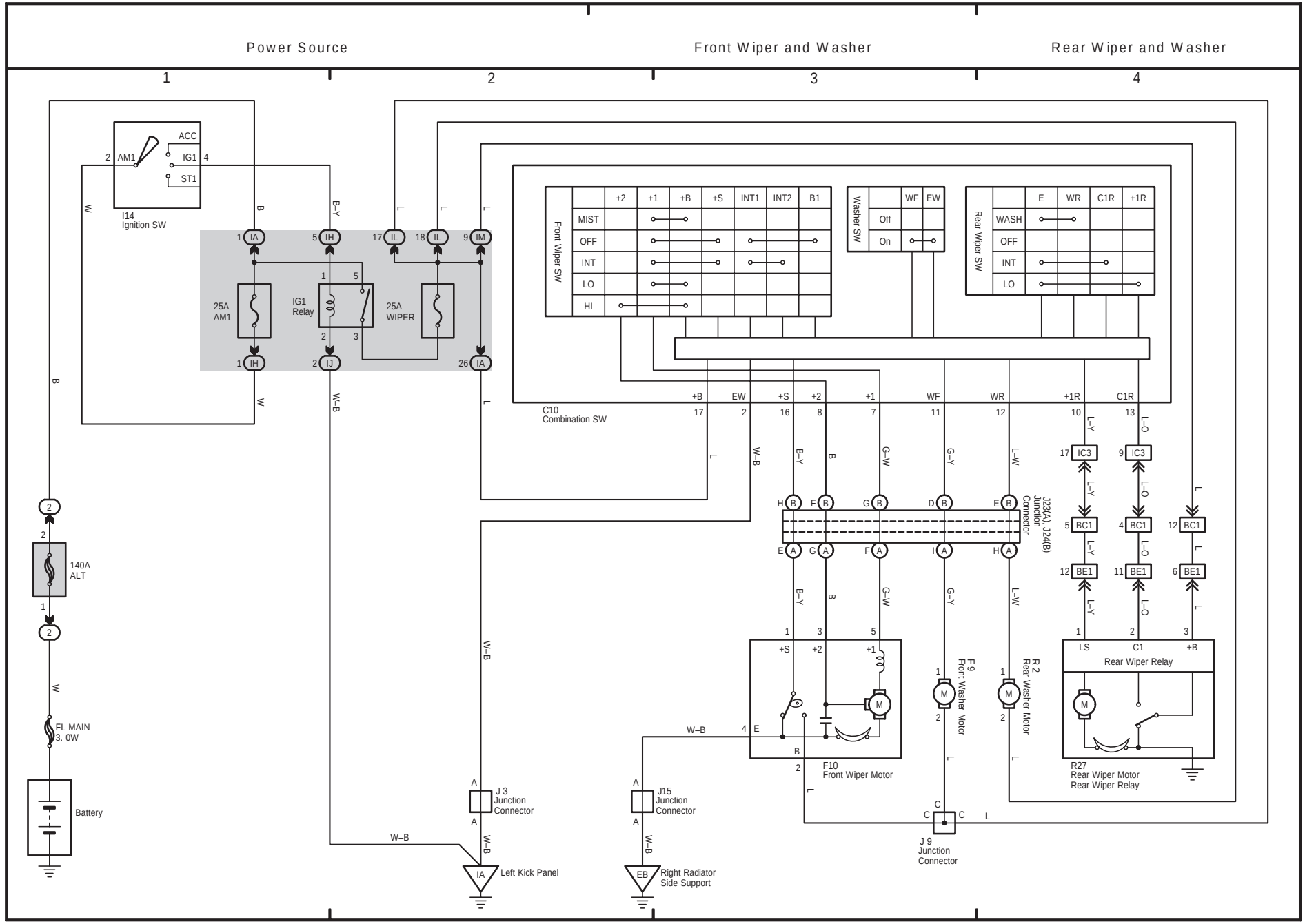


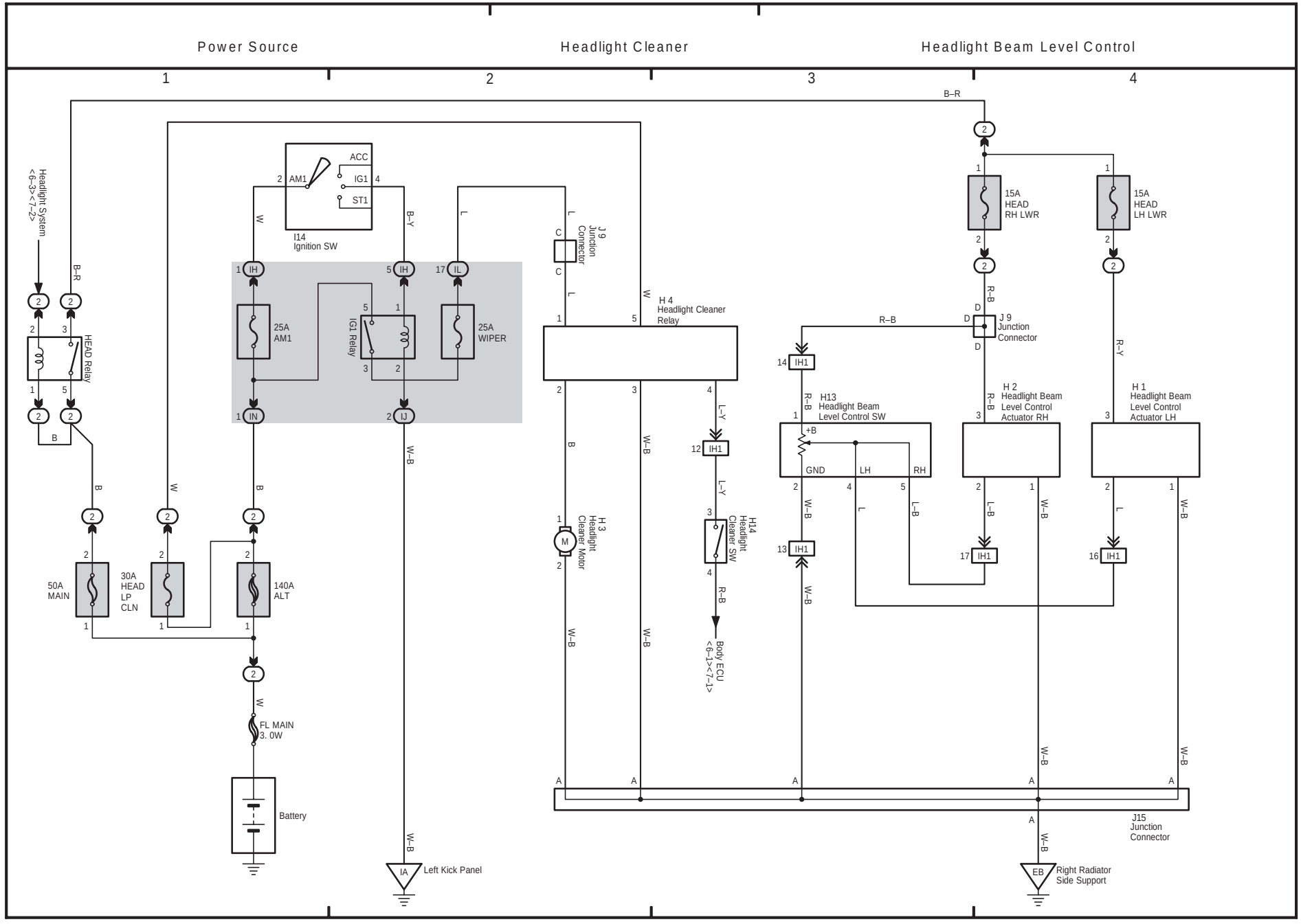


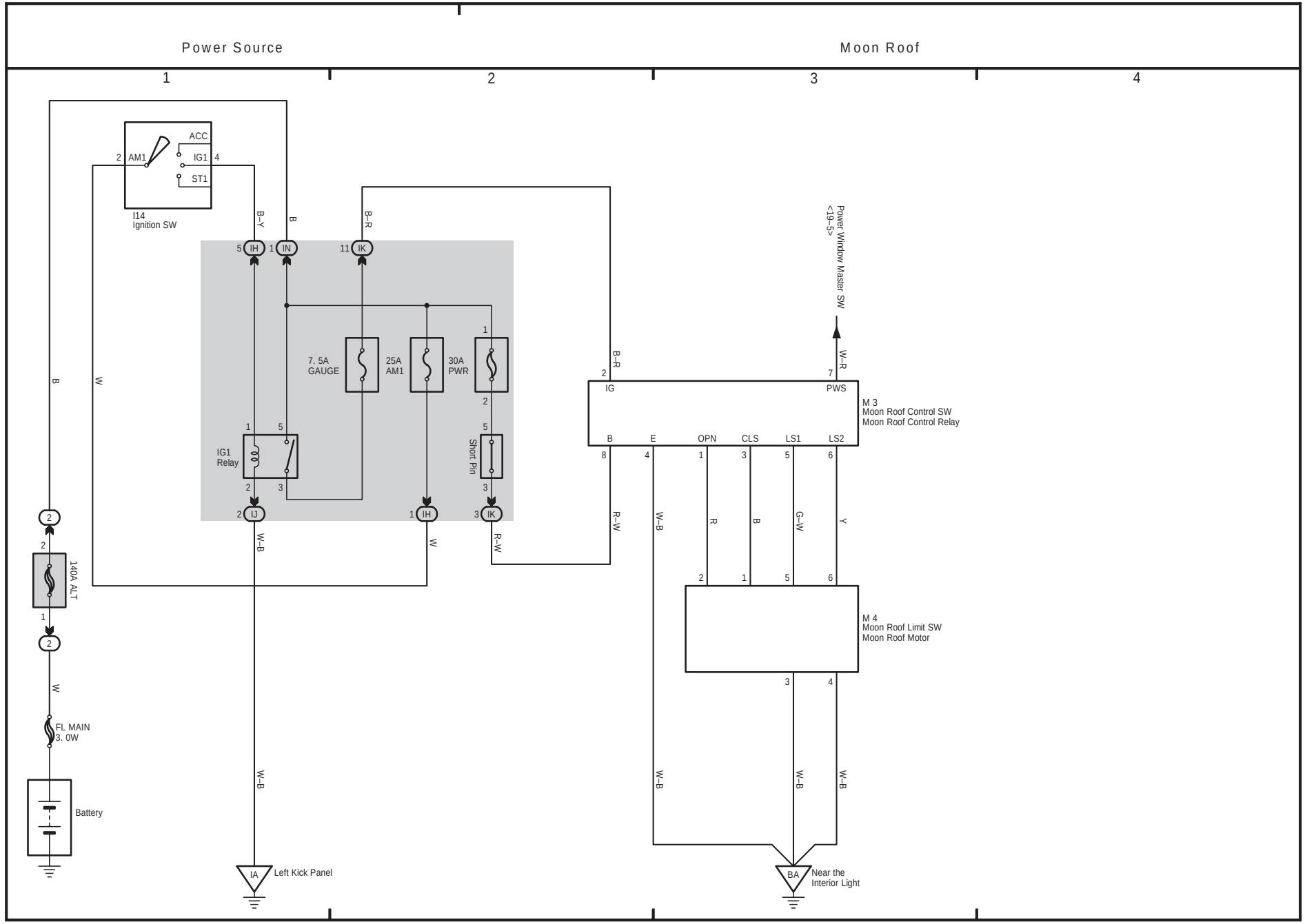
20 AVENSIS VERSO / PICNIC (LHD)



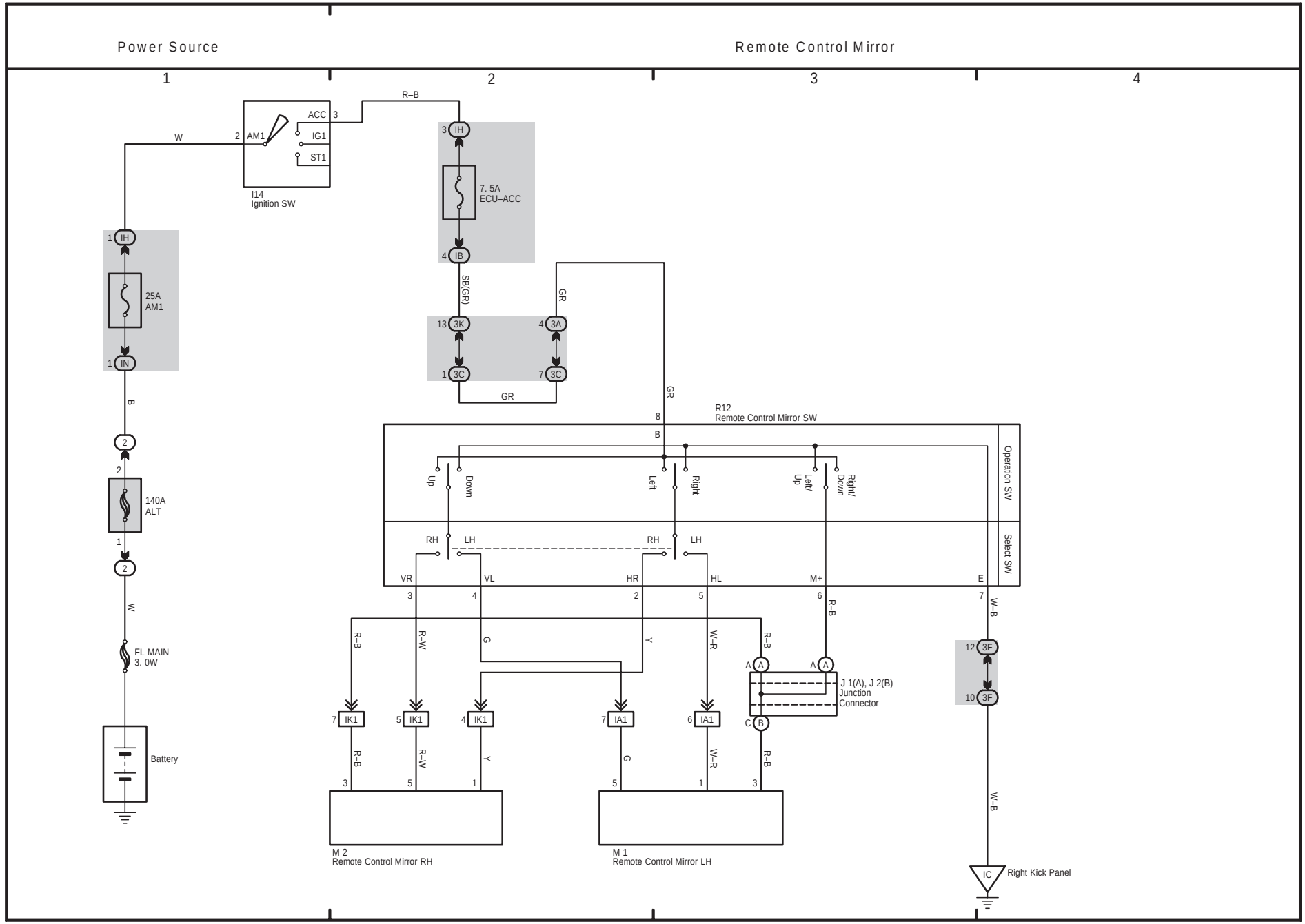

Power Source
Front Wiper and Washer
Rear Wiper and Washer
1
2
3
4
ACC
AM1
IG1
ST1
I14
Ignition SW
25A
AM1
IG1
Relay
25A
WIPER
Front Wiper SW
MIST
OFF
INT
LO
HI
Washer SW
Off
On
Rear Wiper SW
WASH
OFF
INT
LO
C10
Combination SW
140A
ALT
FL MAIN
3. 0W
Battery
J 3
Junction
Connector
Left Kick Panel
J15
Junction
Connector
Right Radiator
Side Support
F10
Front Wiper Motor
F 9
Front Washer Motor
R 2
Rear Washer Motor
J 9
Junction
Connector
J23(A), J24(B)
Junction
Connector
Rear Wiper Relay
R27
Rear Wiper Motor
Rear Wiper Relay

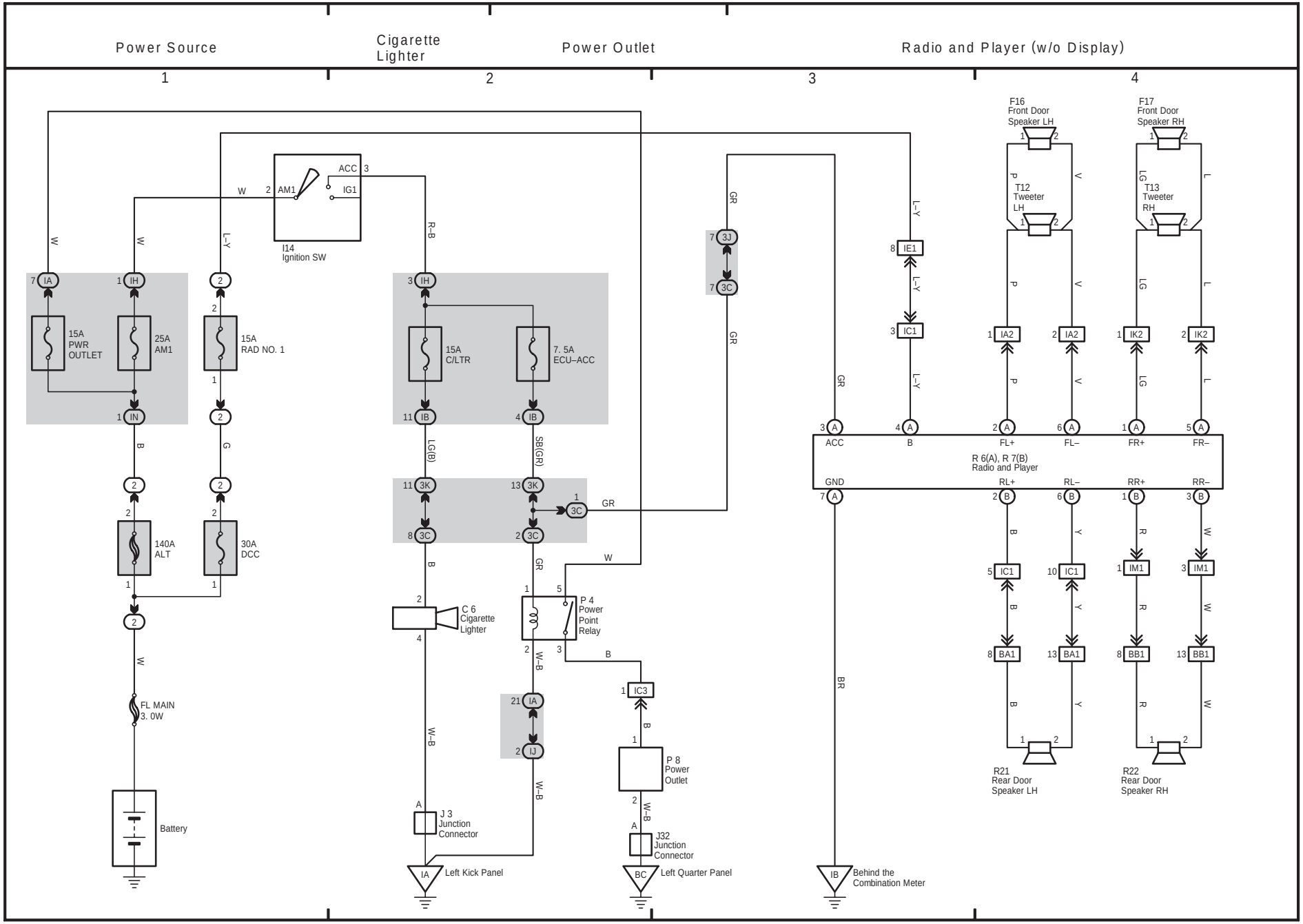
22 AVENSIS VERSO / PICNIC (LHD)



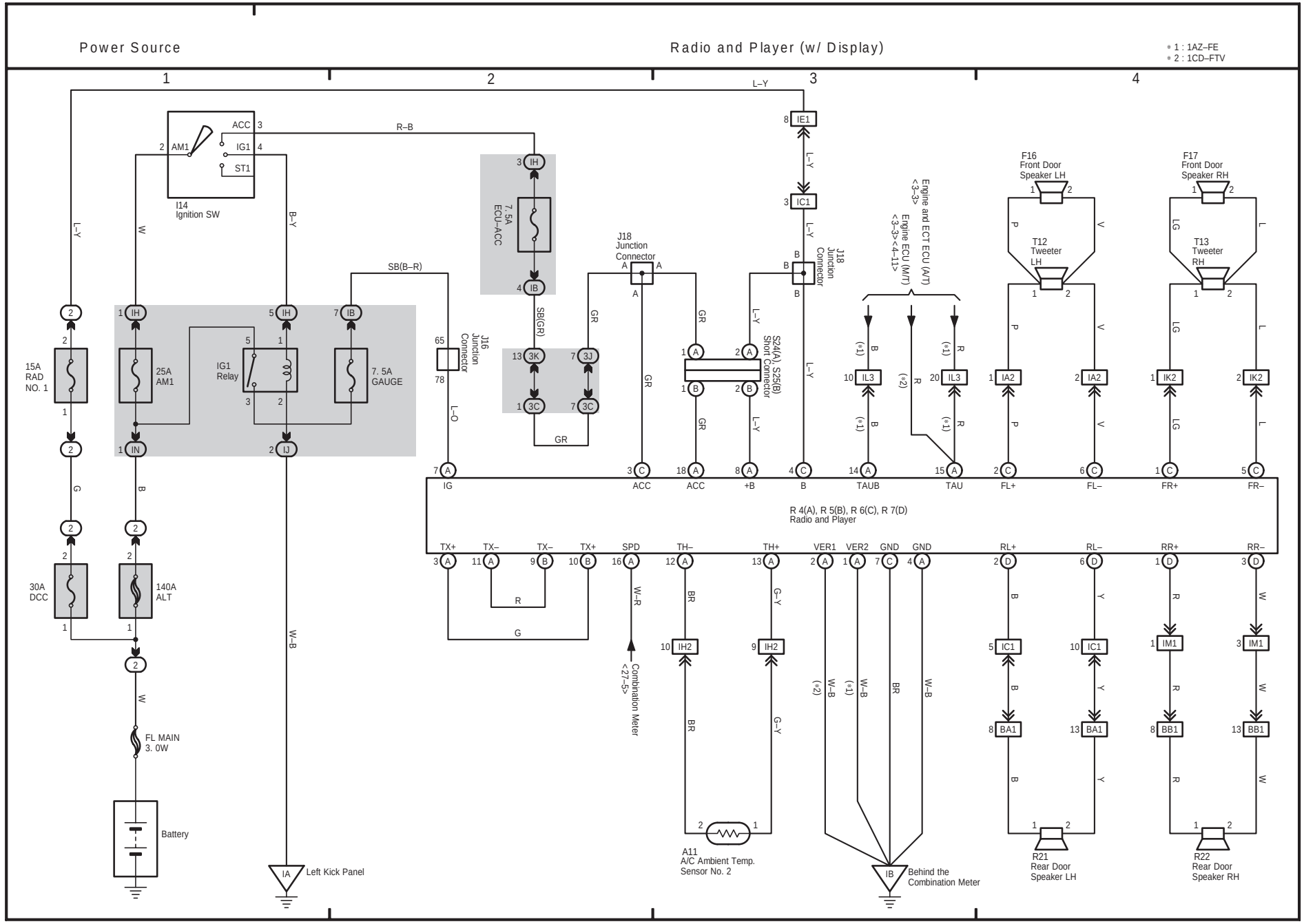

Power Source
Moon Roof
1
2
3
4
ACC
AM1
IG1
ST1
I14
Ignition SW
B–Y
B
B–R
5 IH
1 IN
11 IK
7. 5A
GAUGE
25A
AM1
30A
PWR
IG1
Relay
Short Pin
2 IJ
1 IH
3 IK
W–B
W
R–W
B
W
140A ALT
FL MAIN
3. 0W
Battery
IA
Left Kick Panel
Power Window Master SW
<19–5>
W–R
IG
PWS
M 3
Moon Roof Control SW
Moon Roof Control Relay
B
E
OPN
CLS
LS1
LS2
W–B
R
B
G–W
Y
M 4
Moon Roof Limit SW
Moon Roof Motor
BA
Near the
Interior Light

24 AVENSIS VERSO / PICNIC (LHD)




Power Source
Cigarette Lighter
Power Outlet
Radio and Player (w/o Display)
1
2
3
4
I14 Ignition SW
ACC
AM1
IG1
15A PWR OUTLET
25A AM1
15A RAD NO. 1
15A C/LTR
7. 5A ECU–ACC
140A ALT
30A DCC
FL MAIN 3. 0W
Battery
C 6 Cigarette Lighter
P 4 Power Point Relay
P 8 Power Outlet
J 3 Junction Connector
J32 Junction Connector
Left Kick Panel
Left Quarter Panel
Behind the Combination Meter
F16 Front Door Speaker LH
F17 Front Door Speaker RH
T12 Tweeter LH
T13 Tweeter RH
R 6(A), R 7(B) Radio and Player
R21 Rear Door Speaker LH
R22 Rear Door Speaker RH
ACC
B
FL+
FL–
FR+
FR–
GND
RL+
RL–
RR+
RR–

26 AVENSIS VERSO / PICNIC (LHD)



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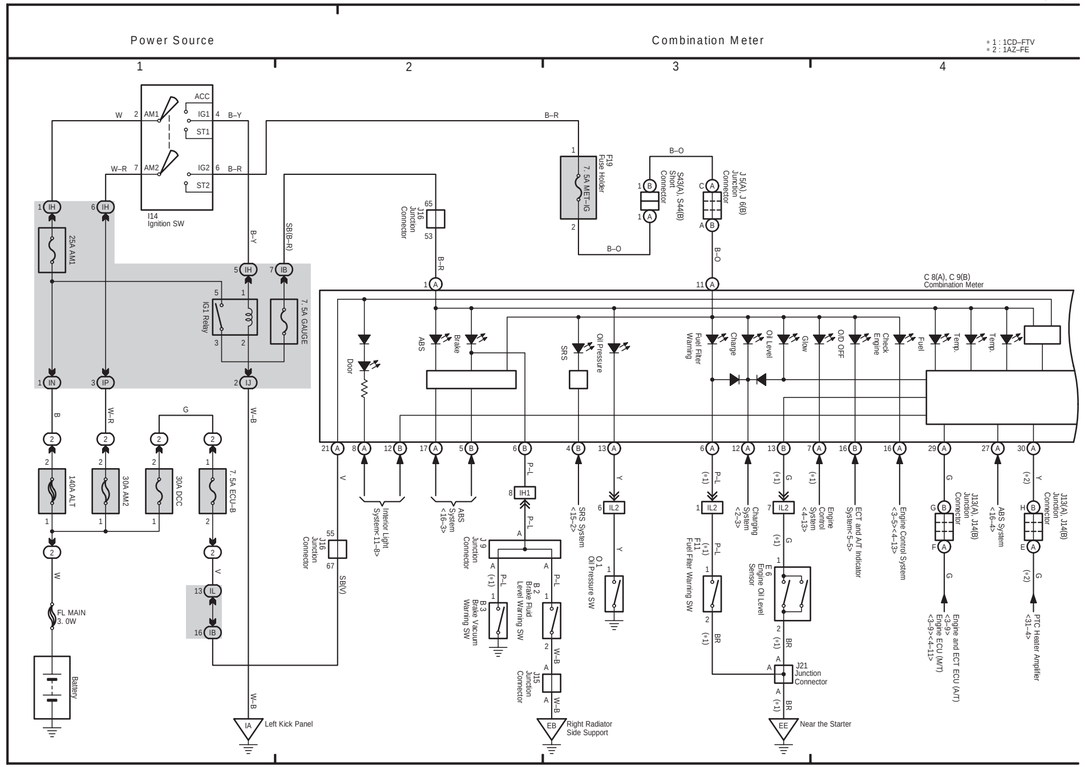
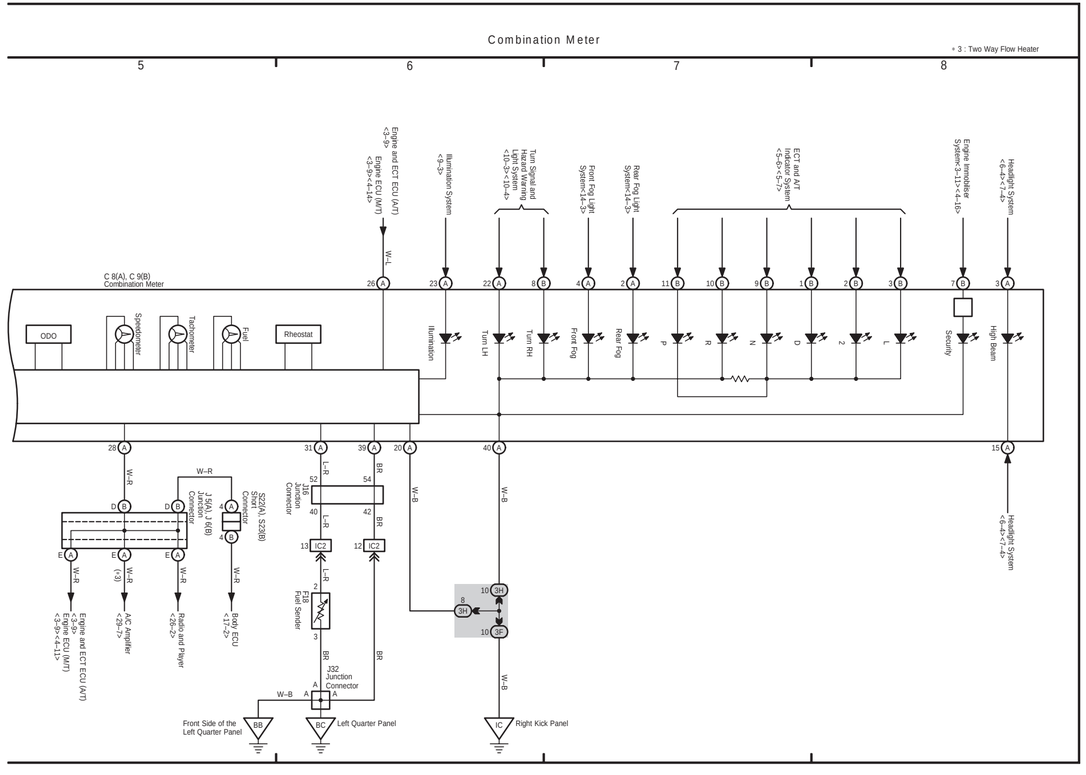
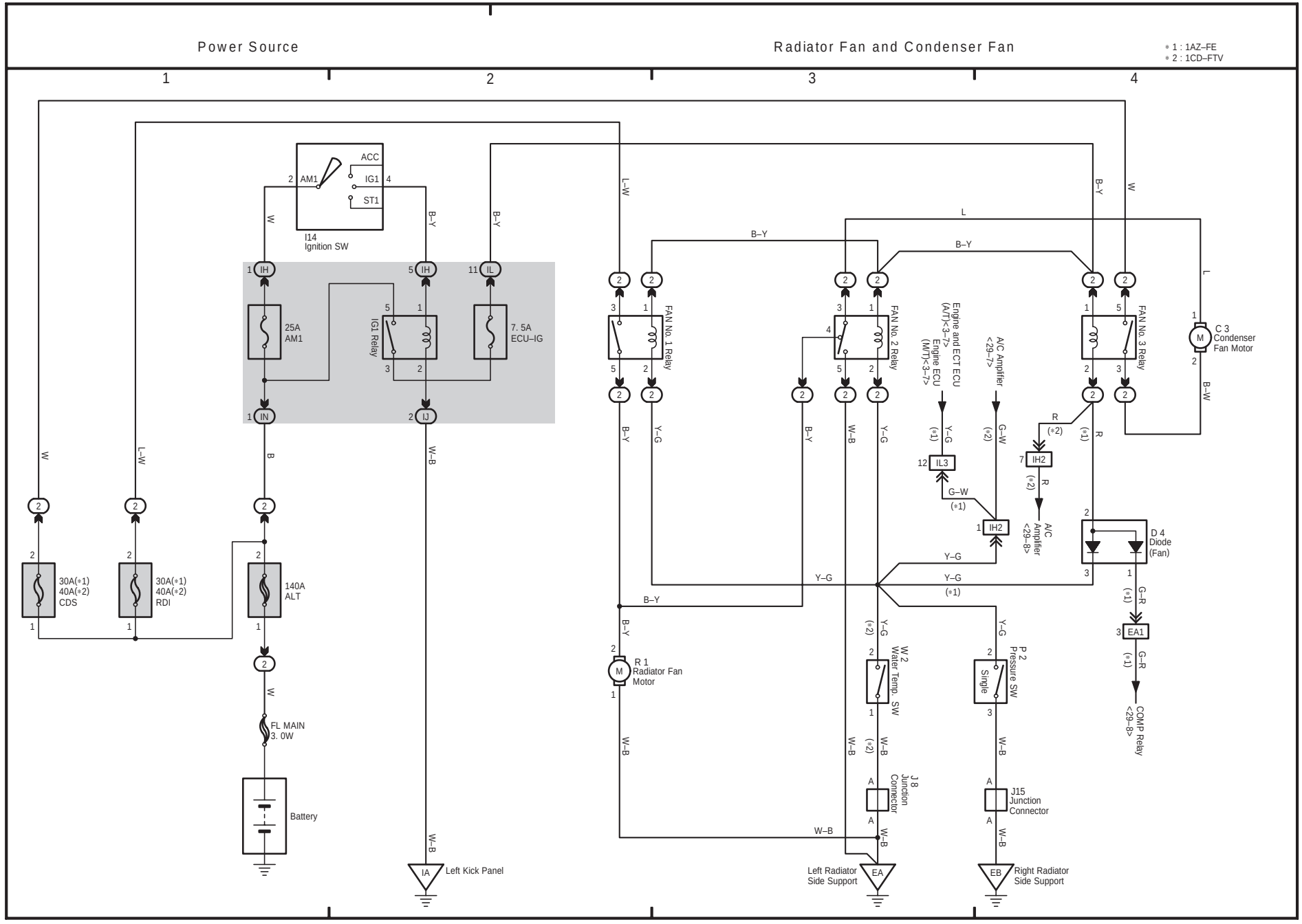


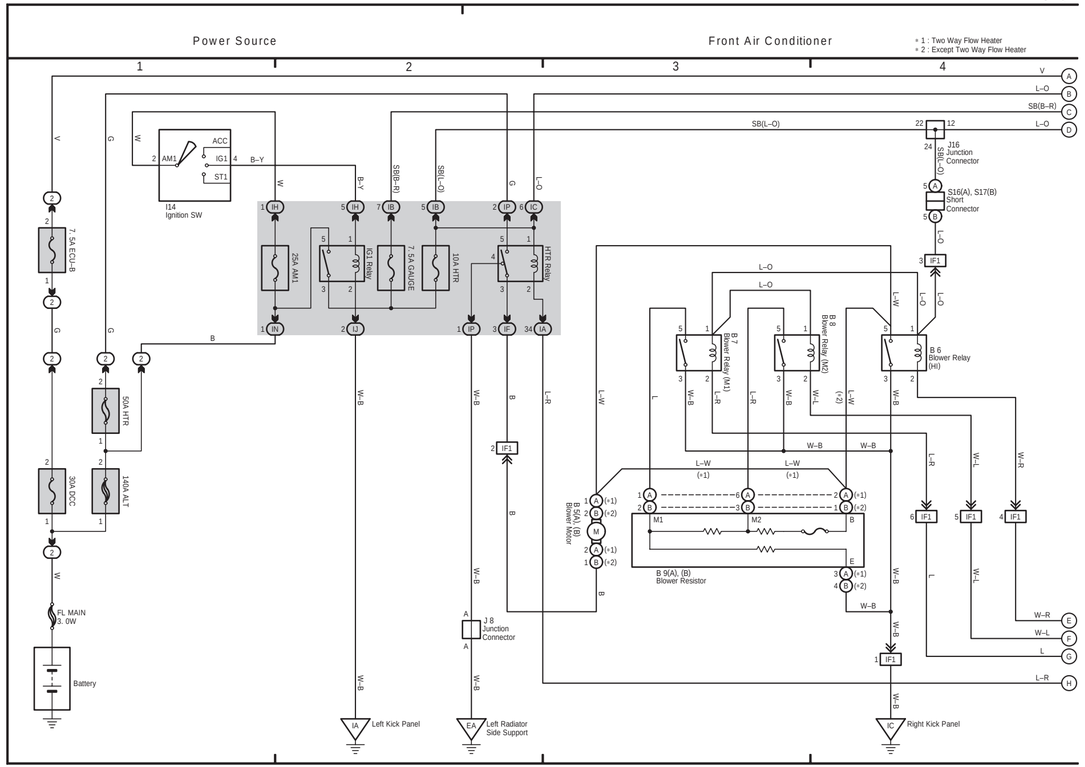


28 AVENSIS VERSO / PICNIC (LHD)

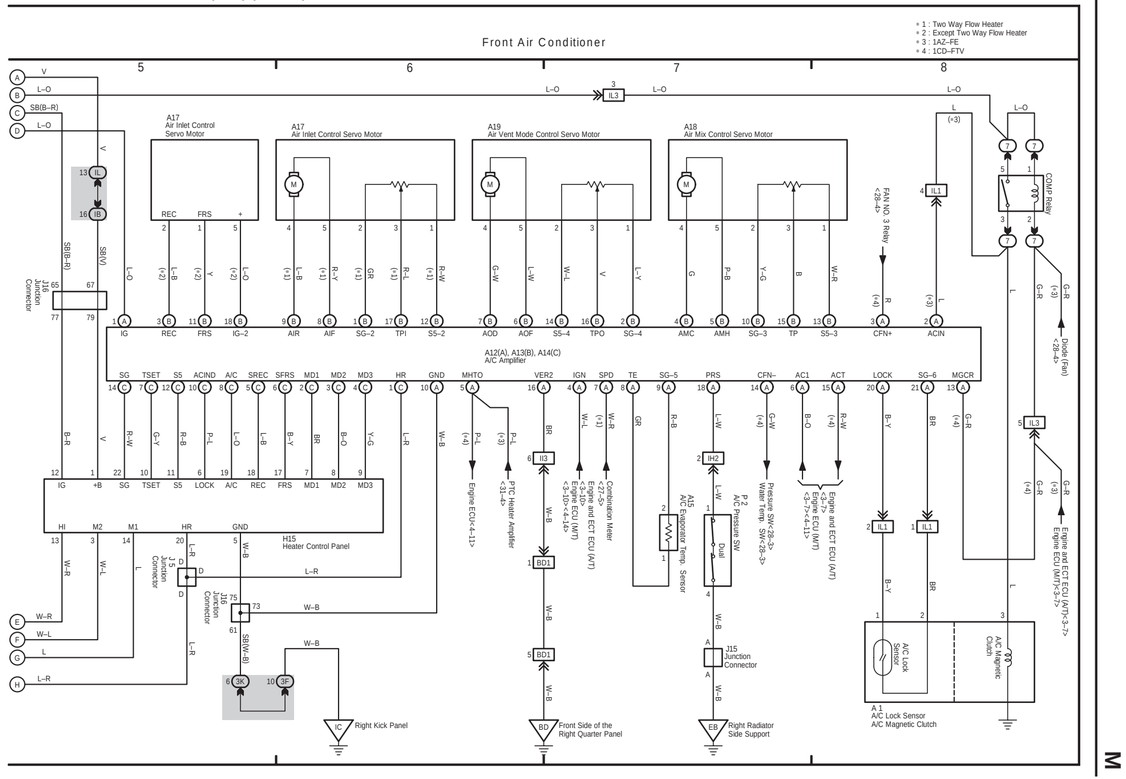


29 AVENSIS VERSO / PICNIC (LHD)

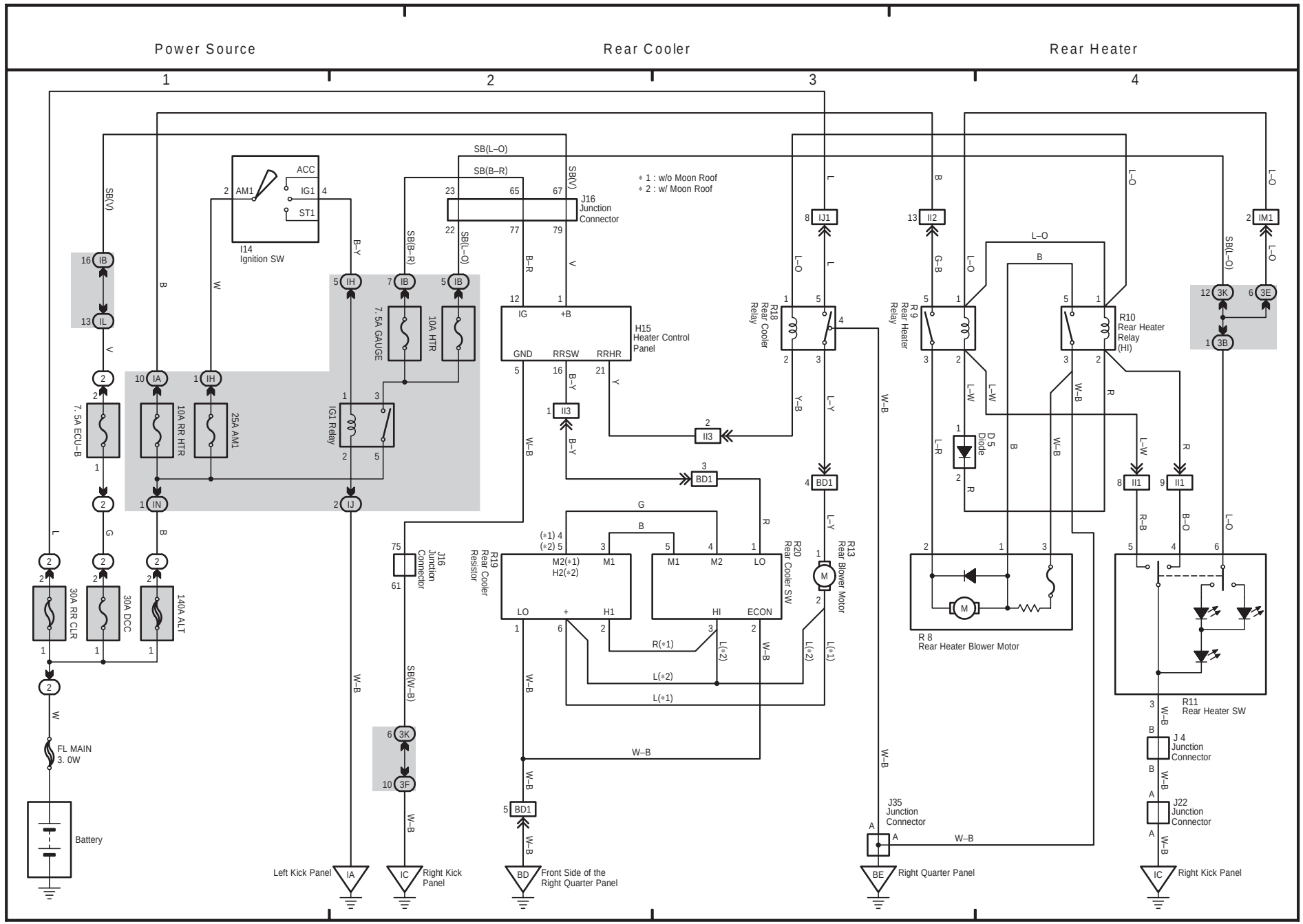
(Cont. next page)

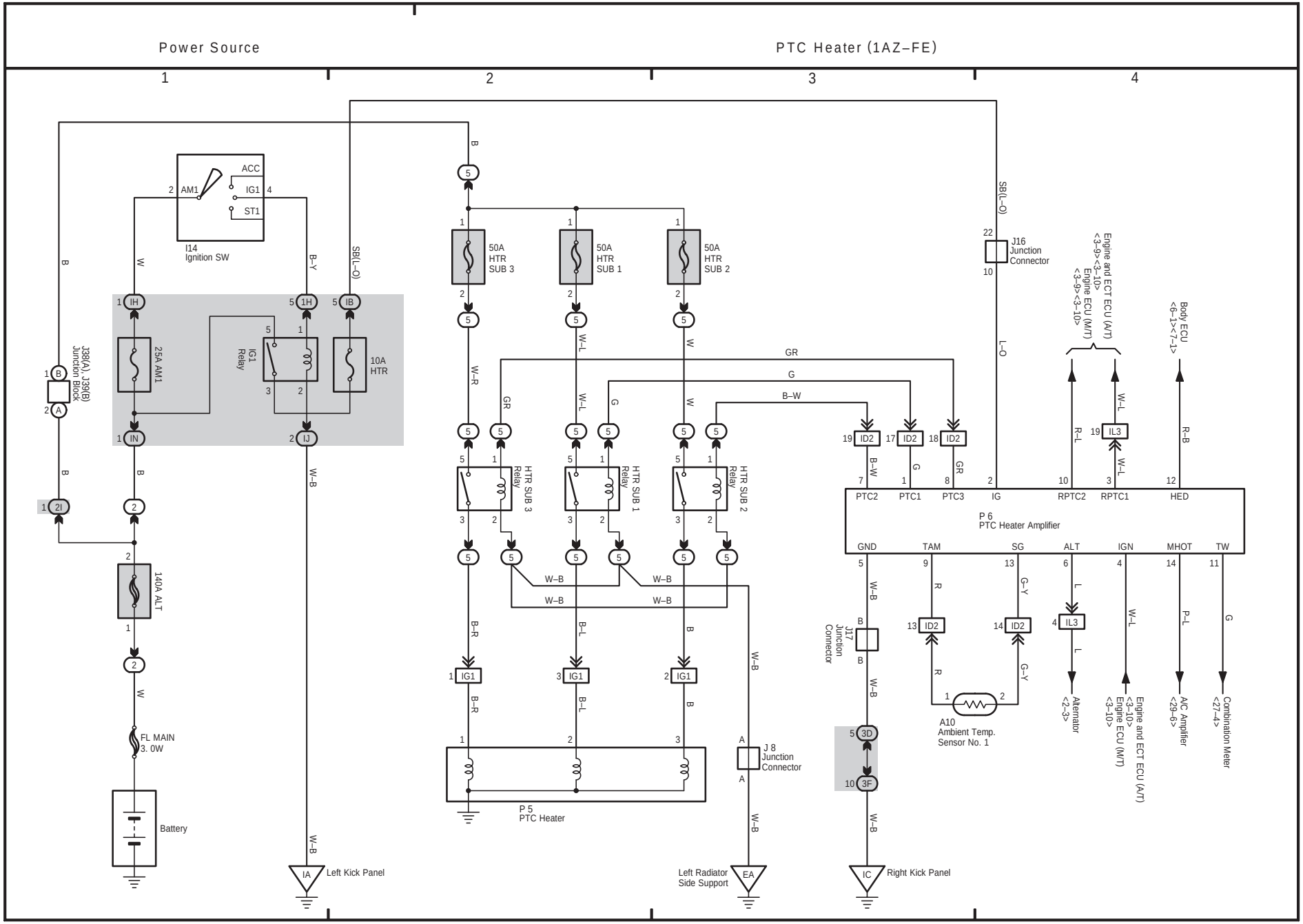


29 AVENSIS VERSO / PICNIC (LHD) (Cont' d)

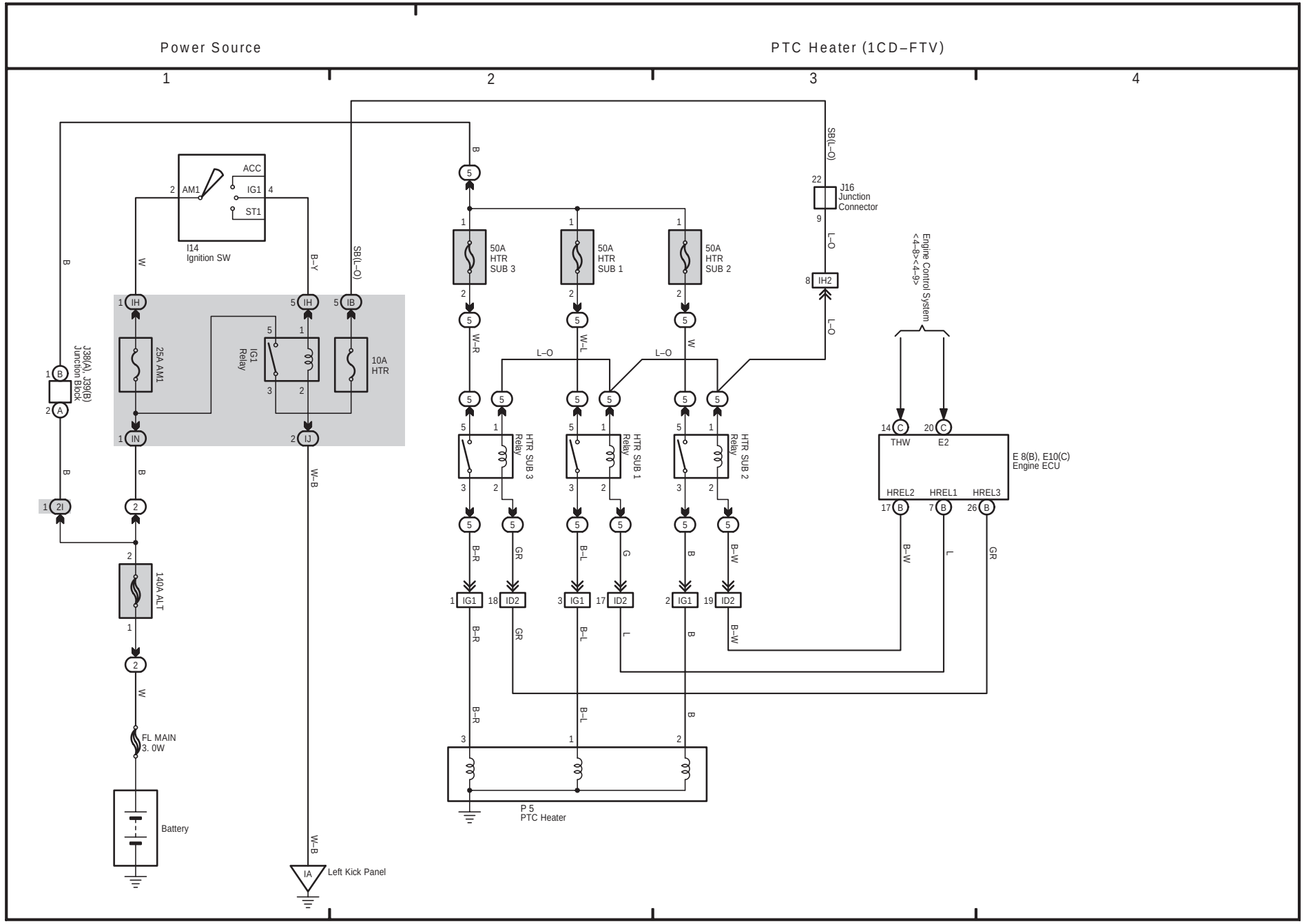


30 AVENSIS VERSO / PICNIC (LHD)

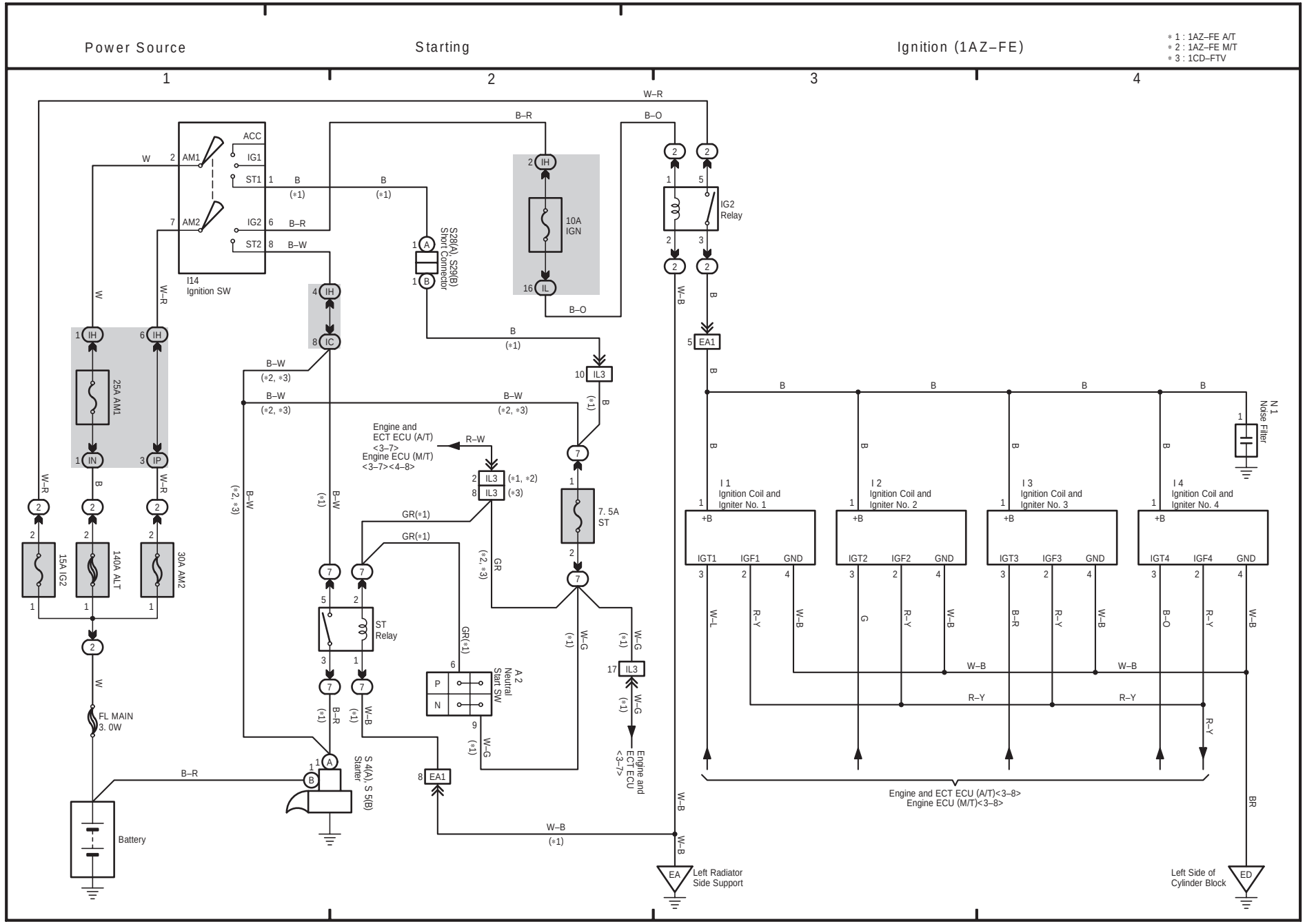


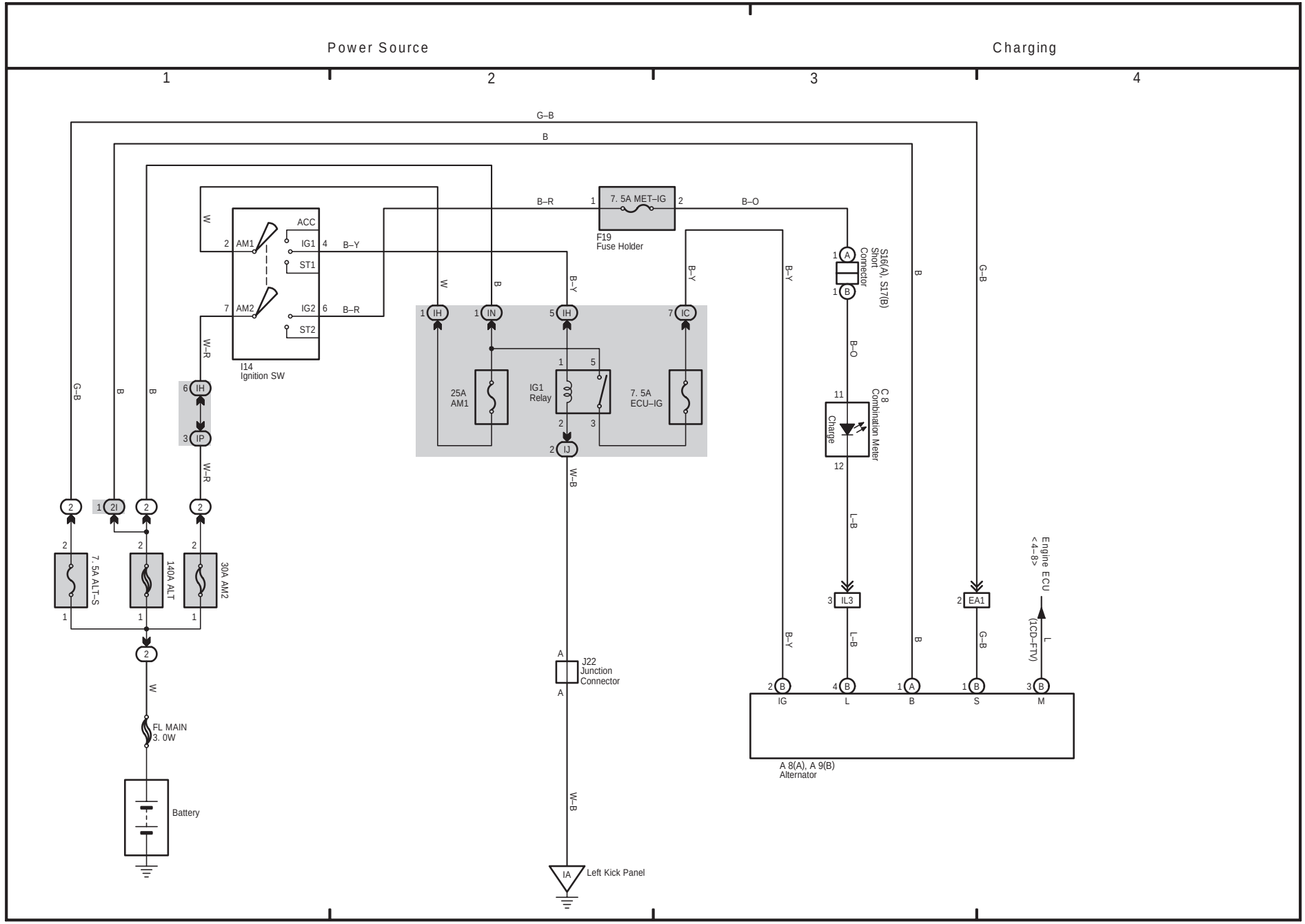

Power Source
PTC Heater (1AZ–FE)
1
2
3
4
ACC
AM1
IG1
ST1
I14
Ignition SW
J38(A), J39(B)
Junction Block
25A AM1
IG1
Relay
10A
HTR
140A ALT
FL MAIN
3. 0W
Battery
Left Kick Panel
50A
HTR
SUB 3
50A
HTR
SUB 1
50A
HTR
SUB 2
HTR SUB 3
Relay
HTR SUB 1
Relay
HTR SUB 2
Relay
P 5
PTC Heater
J 8
Junction
Connector
Left Radiator
Side Support
J16
Junction
Connector
P 6
PTC Heater Amplifier
PTC2
PTC1
PTC3
IG
RPTC2
RPTC1
HED
GND
TAM
SG
ALT
IGN
MHOT
TW
J17
Junction
Connector
A10
Ambient Temp.
Sensor No. 1
Engine and ECT ECU (A/T)
<3–9><3–10>
Engine ECU (M/T)
<3–9><3–10>
Body ECU
<6–1><7–1>
Alternator
<2–3>
Engine and ECT ECU (A/T)
<3–10>
Engine ECU (M/T)
<3–10>
A/C Amplifier
<29–6>
Combination Meter
<27–4>
Right Kick Panel

32 AVENSIS VERSO / PICNIC (LHD)

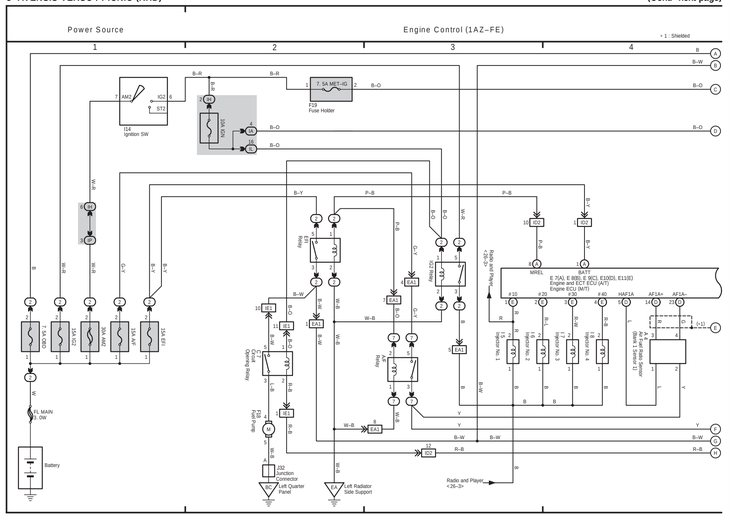


1 AVENSIS VERSO / PICNIC (RHD)




Power Source
Charging
1
2
3
4
G–B
B
B–R
7. 5A MET–IG
F19
Fuse Holder
B–O
S16(A), S17(B)
Short
Connector
ACC
IG1
ST1
IG2
ST2
AM1
AM2
B–Y
W
W–R
I14
Ignition SW
IH
IN
IC
IP
IJ
25A
AM1
IG1
Relay
7. 5A
ECU–IG
C 8
Combination Meter
Charge
L–B
IL3
EA1
Engine ECU
<4–8>
(LCD–FTV)
L
7. 5A ALT–S
140A ALT
30A AM2
2I
J22
Junction
Connector
FL MAIN
3. 0W
Battery
IA
Left Kick Panel
A 8(A), A 9(B)
Alternator
IG
L
B
S
M

(Cont. next page)


Power Source
Engine Control (1AZ–FE)
1
2
3
4
* 1 : Shielded
F 5A MET–IG
F29
Fuse Holder
AM2
IG2
ST2
I24
Ignition SW
30A ADL
I16
I15
I14
I13
I12
I11
W–B
B–R
B–O
B–Y
P–B
G–Y
R–B
W–R
B–W
R–W
Y–R
Y–B
Y–G
Y–W
Y–R
Y–B
Y–G
Y–W
Y–R
Y–B
Y–G
Y

4 AVENSIS VERSO / PICNIC (RHD)

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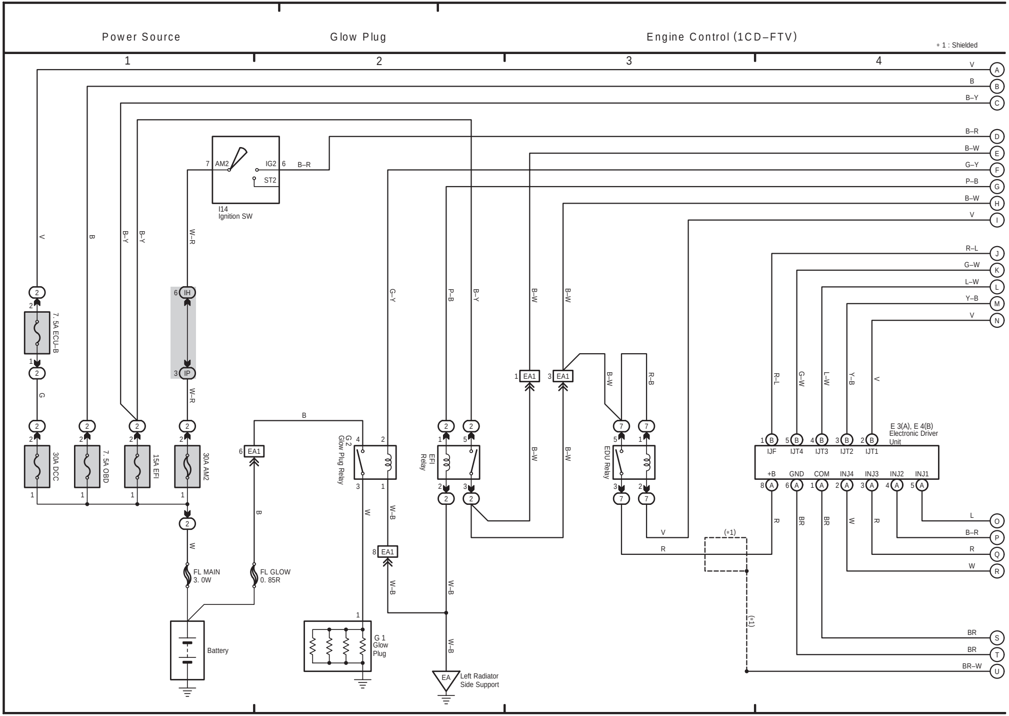
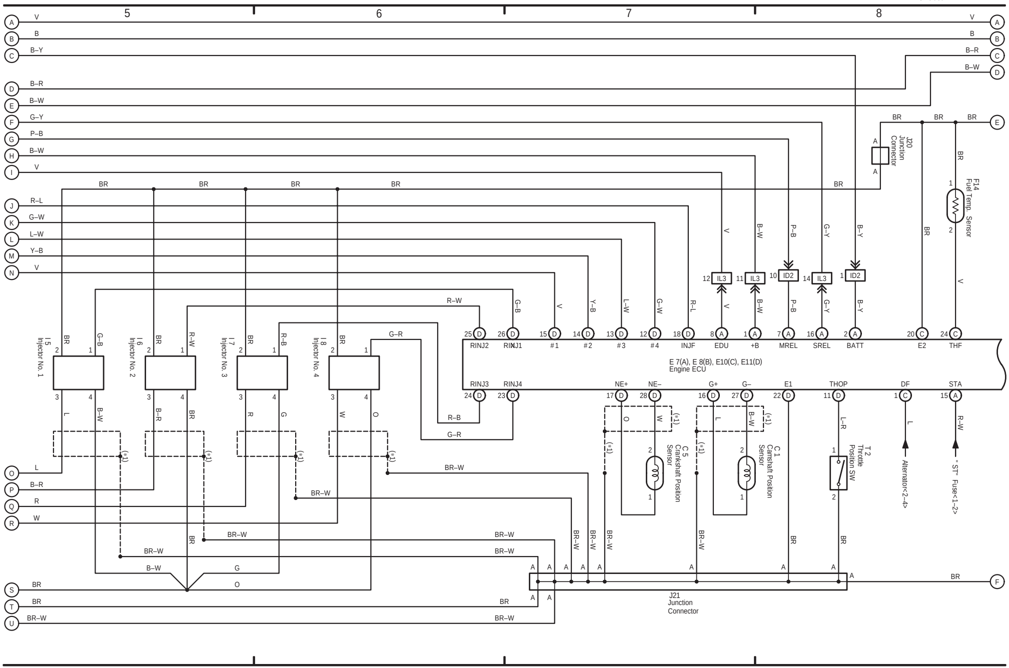
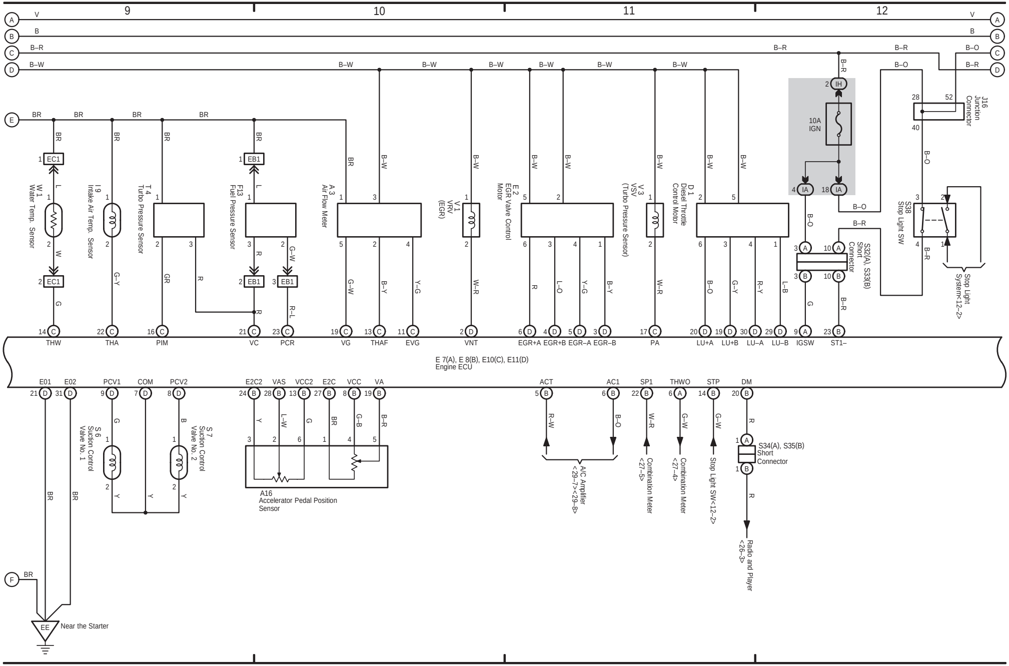

Power Source
Glow Plug
Engine Control (1CD–FTV)
＊1 : Shielded
1
2
3
4
V A
B B
B–Y C
B–R D
B–W E
G–Y F
P–B G
B–W H
V I
R–L J
G–W K
L–W L
Y–B M
V N
L O
B–R P
R Q
W R
BR S
BR T
BR–W U
7 AM2
IG2 6
ST2
B–R
I14
Ignition SW
V
B
B–Y
B–Y
W–R
6 IH
3 IP
W–R
7. 5A ECU–B
G
30A DCC
7. 5A OBD
15A EFI
30A AM2
W
FL MAIN
3. 0W
FL GLOW
0. 85R
Battery
B
6 EA1
B
G 2
Glow Plug Relay
W
W–B
8 EA1
W–B
G 1
Glow
Plug
G–Y
P–B
B–Y
EFI
Relay
W–B
W–B
EA
Left Radiator
Side Support
B–W
B–W
1 EA1
3 EA1
B–W
B–W
B–W
R–B
EDU Relay
V
R
(＊1)
R–L
G–W
L–W
Y–B
V
E 3(A), E 4(B)
Electronic Driver
Unit
IJF
IJT4
IJT3
IJT2
IJT1
+B
GND
COM
INJ4
INJ3
INJ2
INJ1
R
BR
BR
W
R

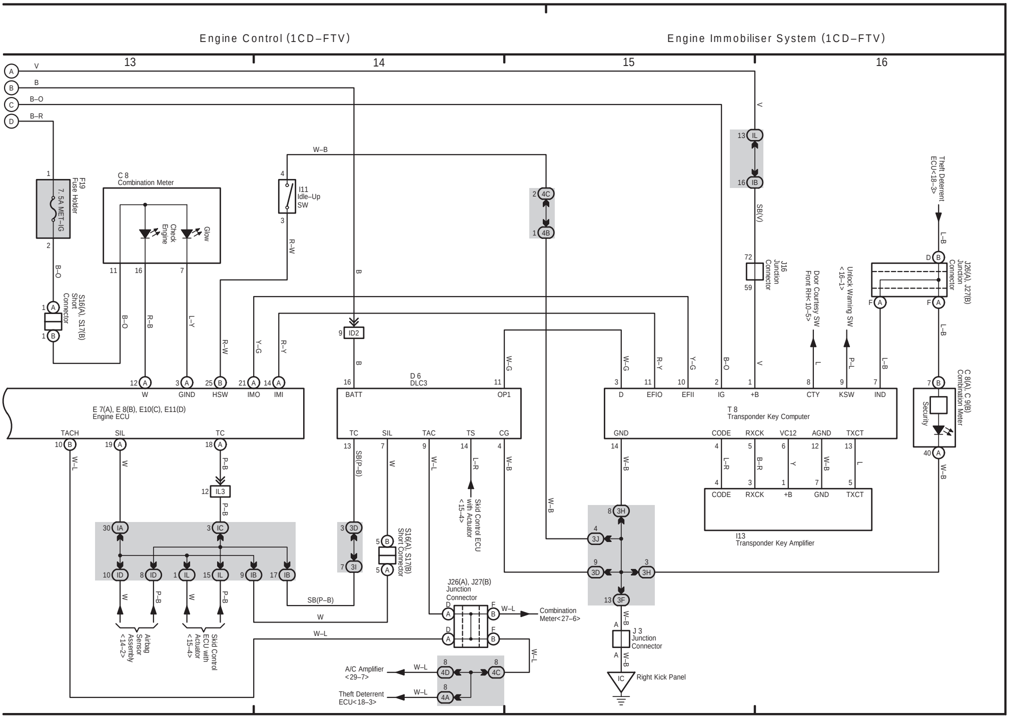
Engine Control (1CD–FTV)


* 1 : Shielded
5
6
7
8
A V
B B
C B–Y
D B–R
E B–W
F G–Y
G P–B
H B–W
I V
J R–L
K G–W
L L–W
M Y–B
N V
O L
P B–R
Q R
R W
S BR
T BR
U BR–W
V A
B B
B–R C
B–W D
BR BR BR E
BR F
I 5 Injector No. 1
I 6 Injector No. 2
I 7 Injector No. 3
I 8 Injector No. 4
J20 Junction Connector
F14 Fuel Temp. Sensor
IL3
ID2
25 D RINJ2
26 D RINJ1
15 D #1
14 D #2
13 D #3
12 D #4
18 D INJF
8 A EDU
1 A +B
7 A MREL
16 A SREL
2 A BATT
20 C E2
24 C THF
E 7(A), E 8(B), E10(C), E11(D) Engine ECU
24 D RINJ3
23 D RINJ4
17 D NE+
28 D NE–
16 D G+
27 D G–
22 D E1
11 D THOP
1 C DF
15 A STA
(*1)
C 5 Crankshaft Position Sensor
C 1 Camshaft Position Sensor
T 2 Throttle Position SW
Alternator<2–4>
" ST" Fuse<1–2>
J21 Junction Connector
BR
BR–W
R–W
G–B
R–B
G–R
L–R
R–W

Engine Control (1CD–FTV)

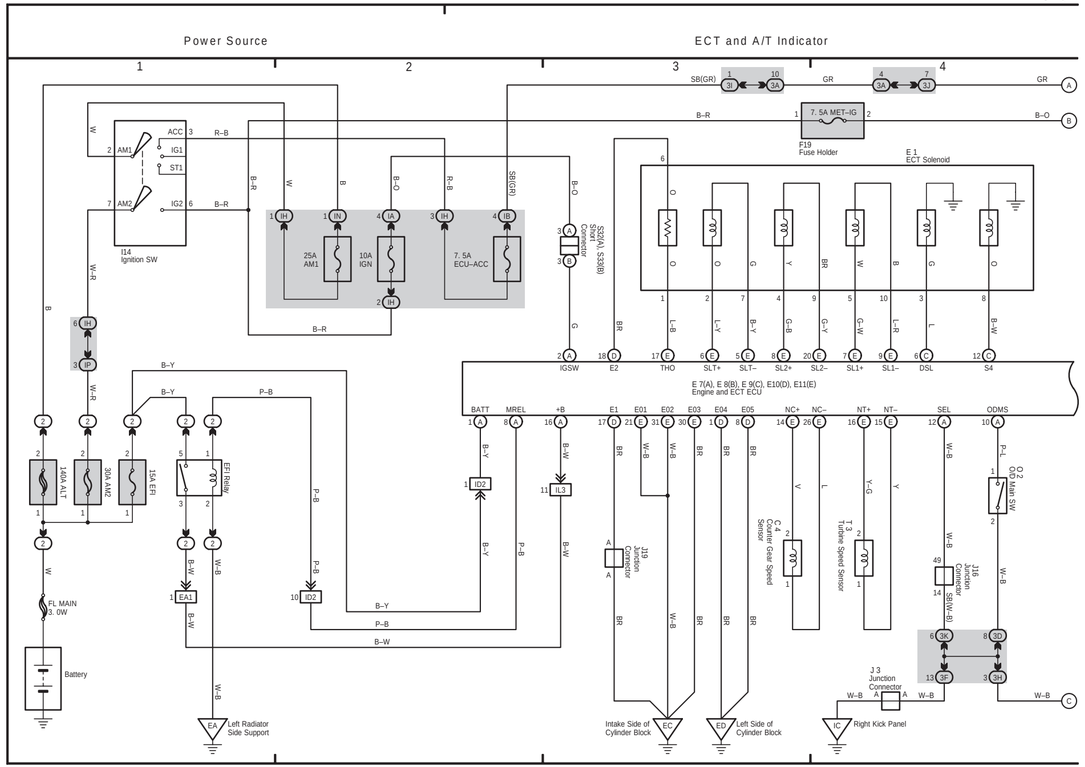

9
10
11
12
A
B
C
D
E
F
V
B
B–R
B–W
B–O
BR
1 EC1
2 EC1
1 EB1
2 EB1
3 EB1
W 1 Water Temp. Sensor
I 9 Intake Air Temp. Sensor
T 4 Turbo Pressure Sensor
F13 Fuel Pressure Sensor
A 3 Air Flow Meter
V 1 VRV (EGR)
E 2 EGR Vake Control Motor
V 3 VSV (Turbo Pressure Sensor)
D 1 Diesel Throttle Control Motor
2 IH
10A IGN
4 IA
18 IA
J16 Junction Connector
S38 Stop Light SW
S32(A), S33(B) Short Connector
Stop Light System<12–2>
THW
THA
PIM
VC
PCR
VG
THAF
EVG
VNT
EGR+A
EGR+B
EGR–A
EGR–B
PA
LU+A
LU+B
LU–A
LU–B
IGSW
ST1–
E 7(A), E 8(B), E10(C), E11(D) Engine ECU
E01
E02
PCV1
COM
PCV2
E2C2
VAS
VCC2
E2C
VCC
VA
ACT
AC1
SP1
THWO
STP
DM
S 6 Suction Control Valve No. 1
S 7 Suction Control Valve No. 2
A16 Accelerator Pedal Position Sensor
A/C Amplifier <29–7><29–8>
Combination Meter <27–5>
Combination Meter <27–4>
Stop Light SW<12–2>
S34(A), S35(B) Short Connector
Radio and Player <26–3>
EE
Near the Starter

4 AVENSIS VERSO / PICNIC (RHD) (Cont' d)

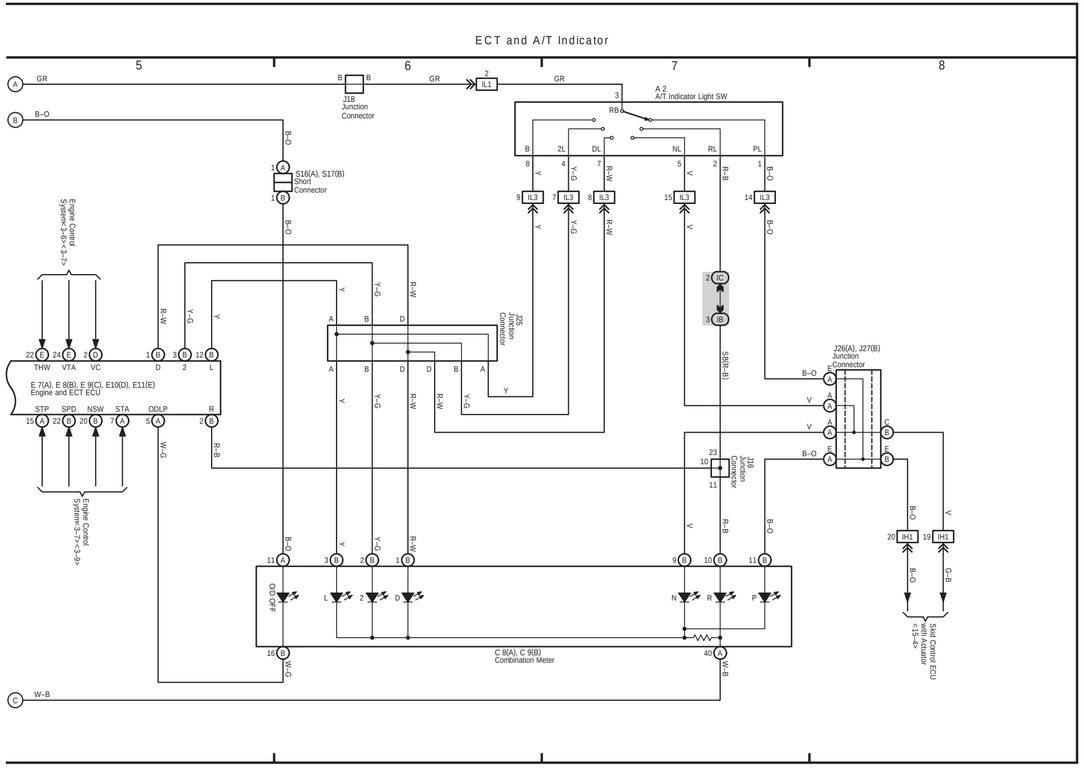

Engine Control (1CD–FTV)
Engine Immobiliser System (1CD–FTV)
13
14
15
16
A V
B B
C B–O
D B–R
F19 Fuse Holder
7. 5A MET–IG
1
2
B–O
S16(A), S17(B) Short Connector
C 8 Combination Meter
Check Engine
Glow
11
16
7
B–O
R–B
L–Y
I11 Idle–Up SW
4
3
W–B
R–W
B
9 ID2
Y–G
R–Y
12 W
3 GIND
25 HSW
21 IMO
14 IMI
E 7(A), E 8(B), E10(C), E11(D) Engine ECU
TACH
SIL
TC
10
19
18
W–L
W
P–B
12 IL3
30 IA
3 IC
10 ID
8 ID
1 IL
15 IL
9 IB
17 IB
Airbag Sensor Assembly <14–2>
Skid Control ECU with Actuator <15–4>
SB(P–B)
W
W–L
D 6 DLC3
16 BATT
11 OP1
13 TC
7 SIL
9 TAC
14 TS
4 CG
SB(P–B)
3 3D
7 3I
5 B
5 A
S16(A), S17(B) Short Connector
Skid Control ECU with Actuator <15–4>
L–R
W–B
2 4C
1 4B
J26(A), J27(B) Junction Connector
D
F
W–L
Combination Meter<27–6>
A/C Amplifier <29–7>
Theft Deterrent ECU<18–3>
8 4D
8 4C
8 4A
W–G
R–Y
Y–G
B–O
V
13 IL
16 IB
SB(V)
J16 Junction Connector
72
59
Door Courtesy SW Front RH<10–5>
Unlock Warning SW <16–1>
L
P–L
L–B
Theft Deterrent ECU<18–3>
J26(A), J27(B) Junction Connector
3 D
11 EFIO
10 EFII
2 IG
1 +B
8 CTY
9 KSW
7 IND
T 8 Transponder Key Computer
GND
CODE
RXCK
VC12
AGND
TXCT
14
4
5
6
12
13
L–R
B–R
Y
W–B
L
4 CODE
3 RXCK
1 +B
7 GND
5 TXCT
I13 Transponder Key Amplifier
8 3H
4 3J
9 3D
3 3H
13 3F
W–B
J 3 Junction Connector
A
IC
Right Kick Panel
C 8(A), C 9(B) Combination Meter
Security
7 B
40 A
W–B

5 AVENSIS VERSO / PICNIC (RHD)

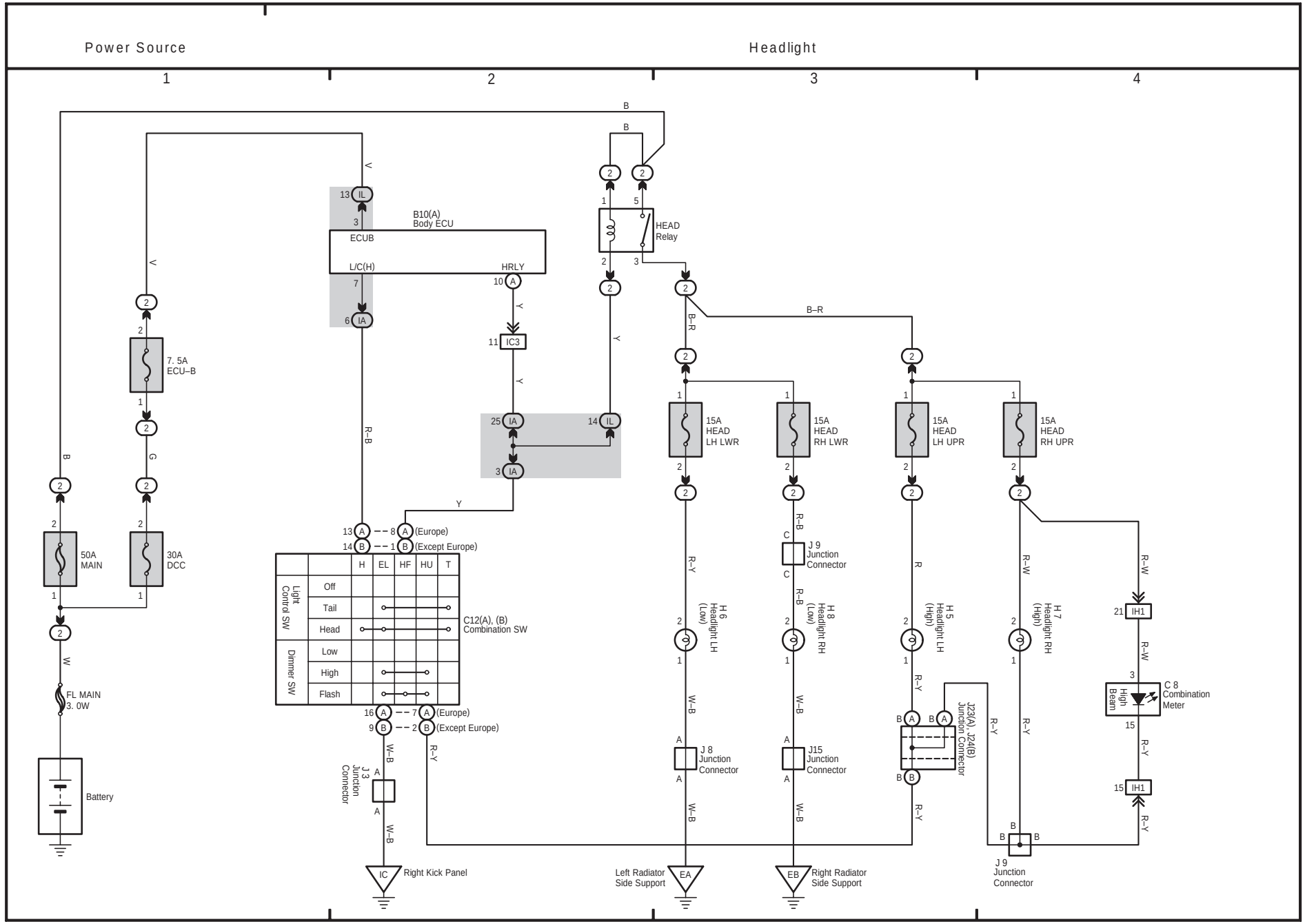
(Cont. next page)

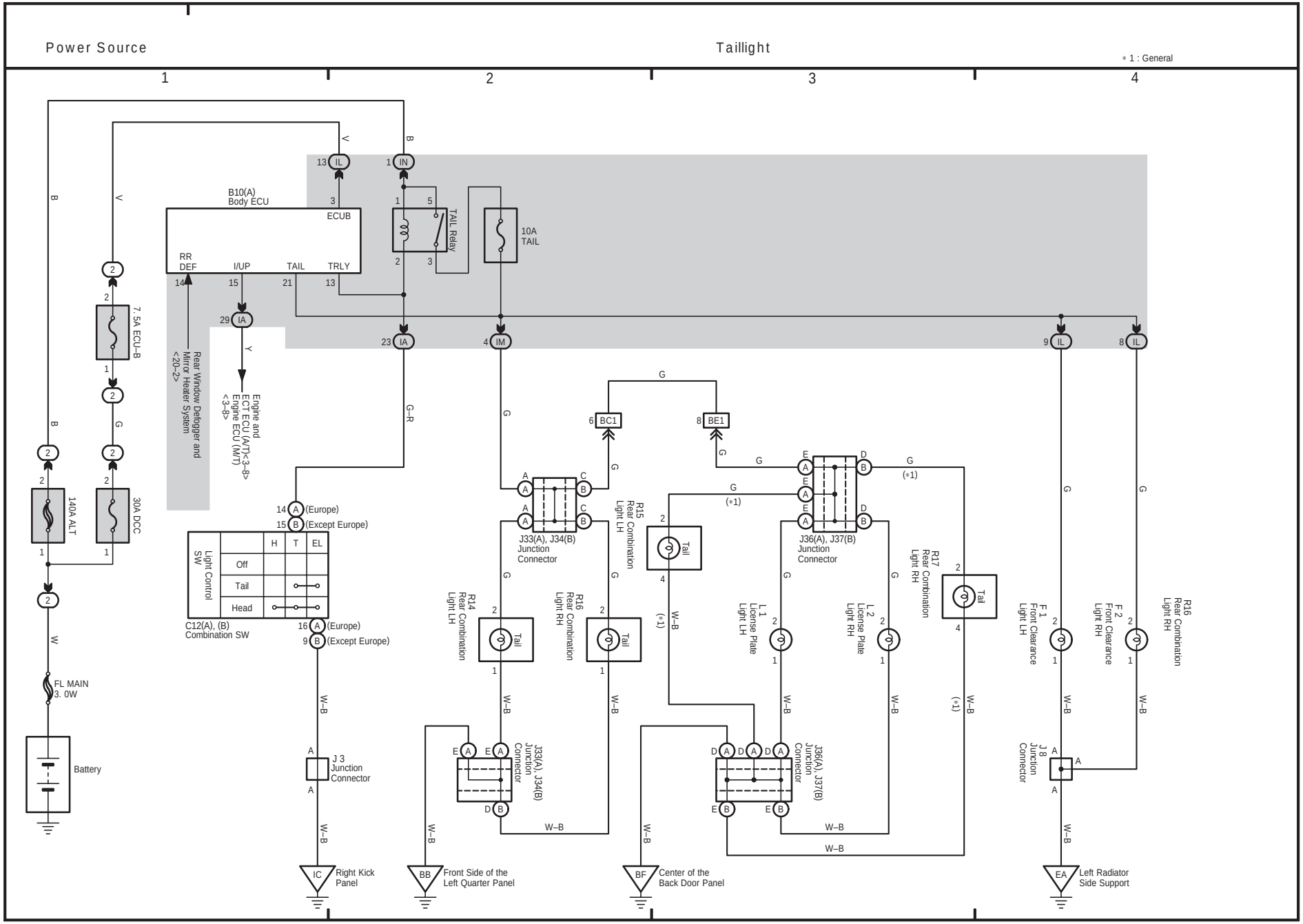


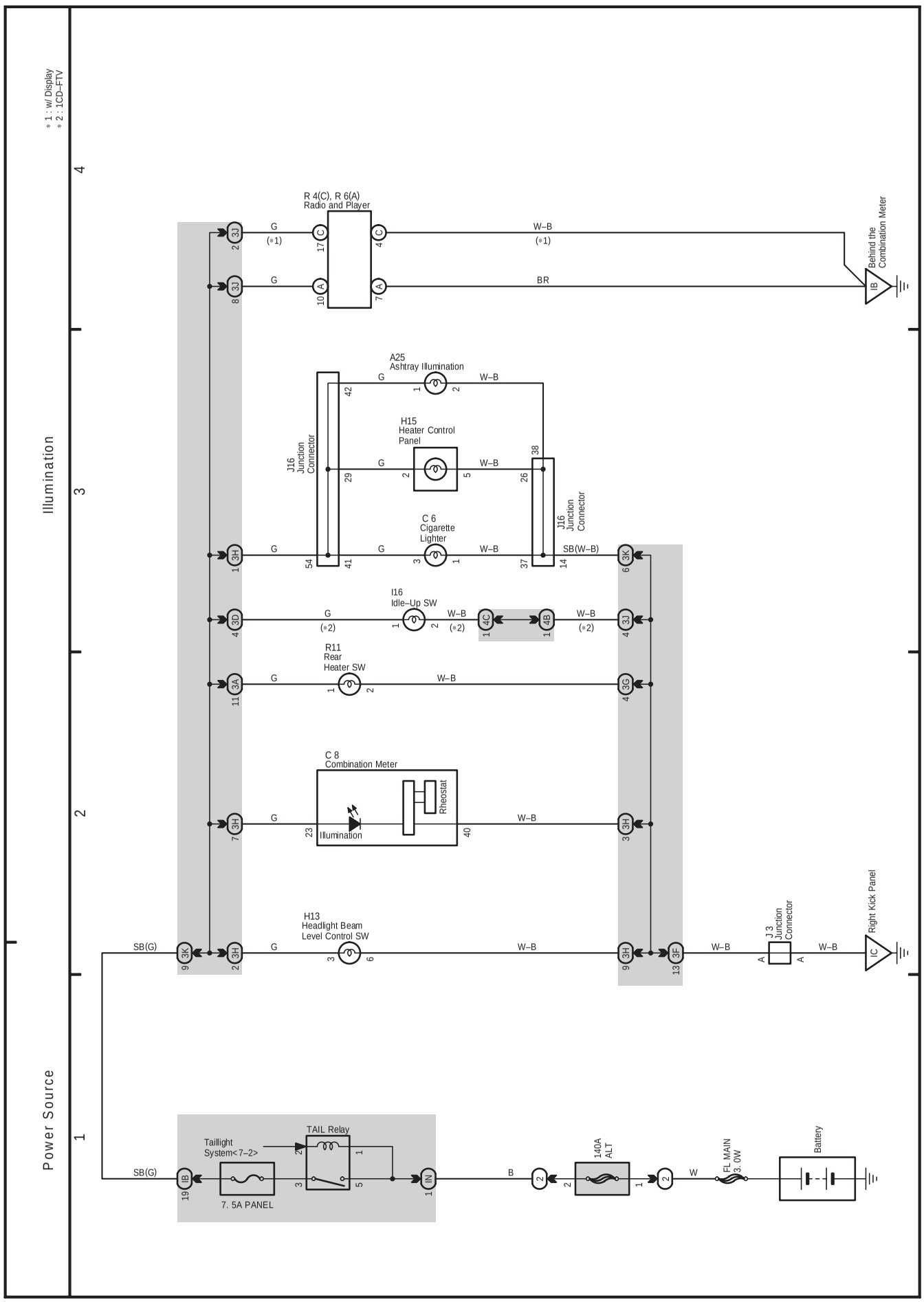
5 AVENSIS VERSO / PICNIC (RHD) (Cont' d)

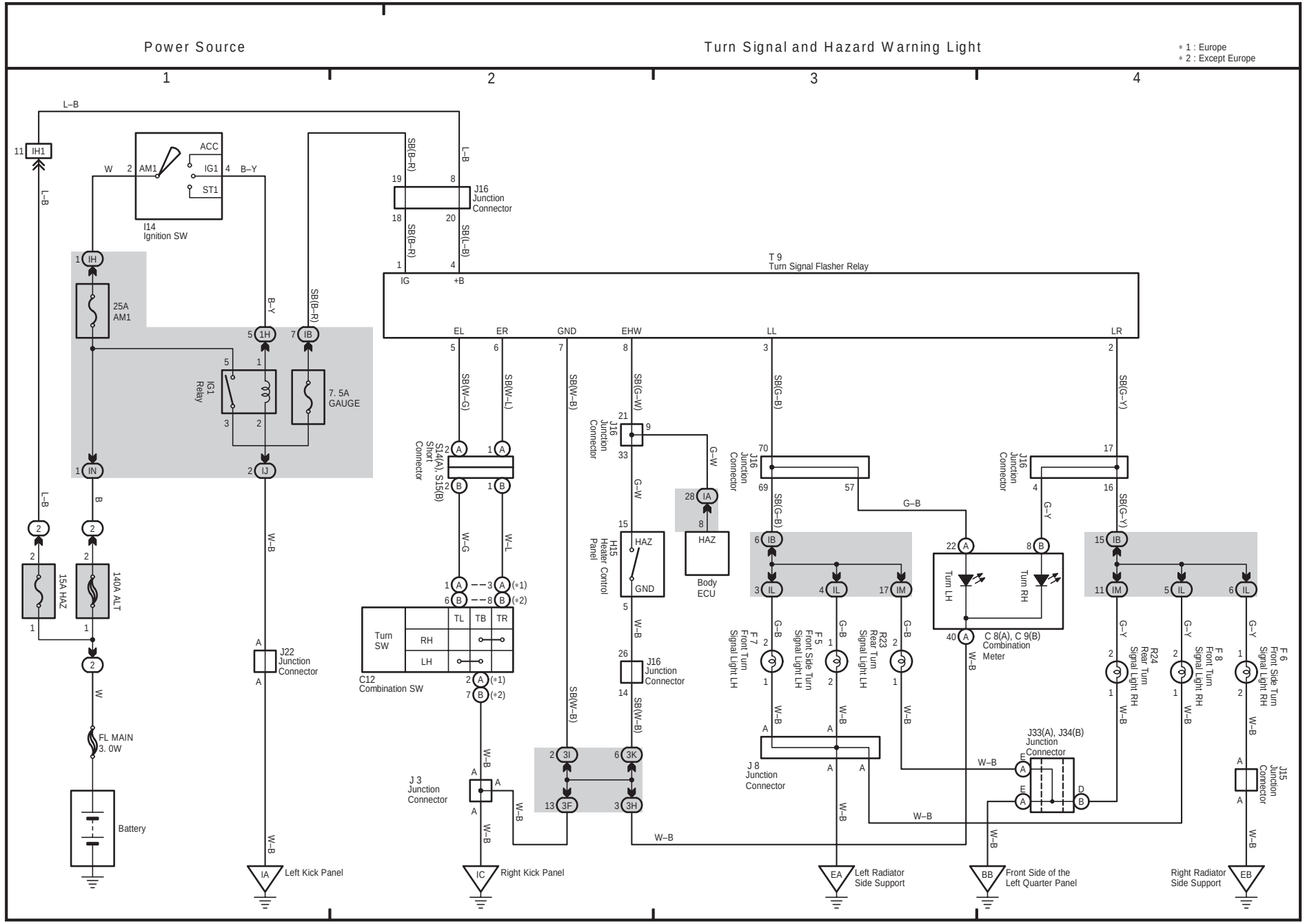


6 AVENSIS VERSO / PICNIC (RHD)

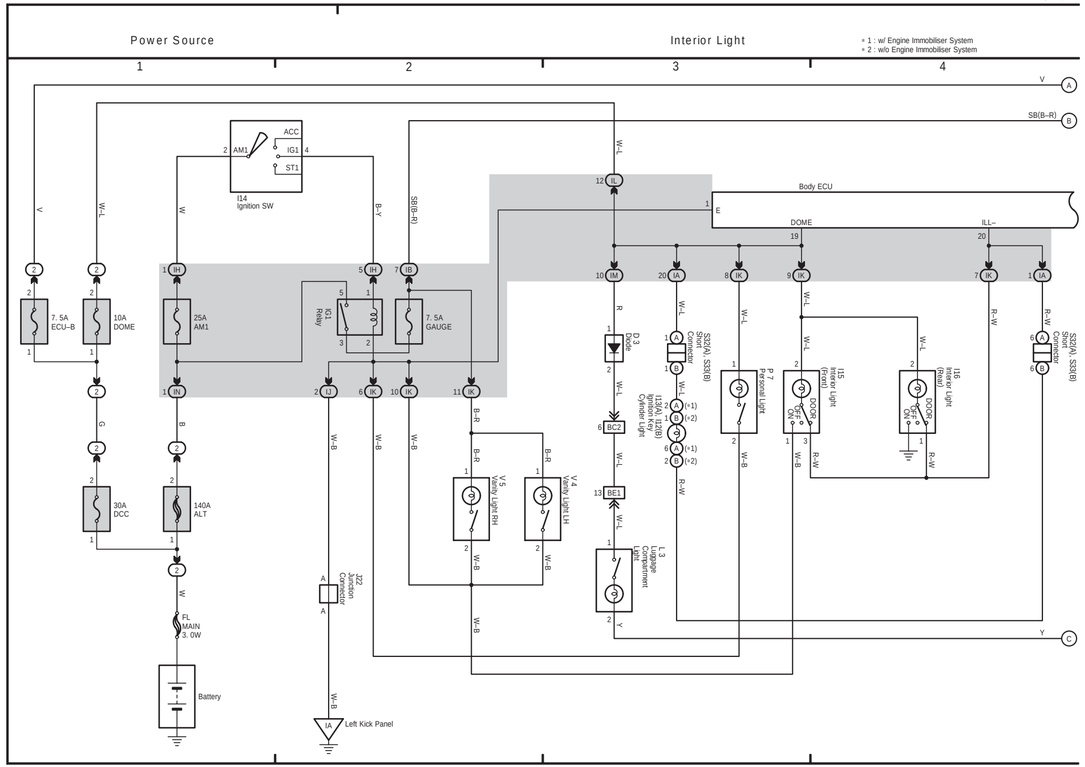


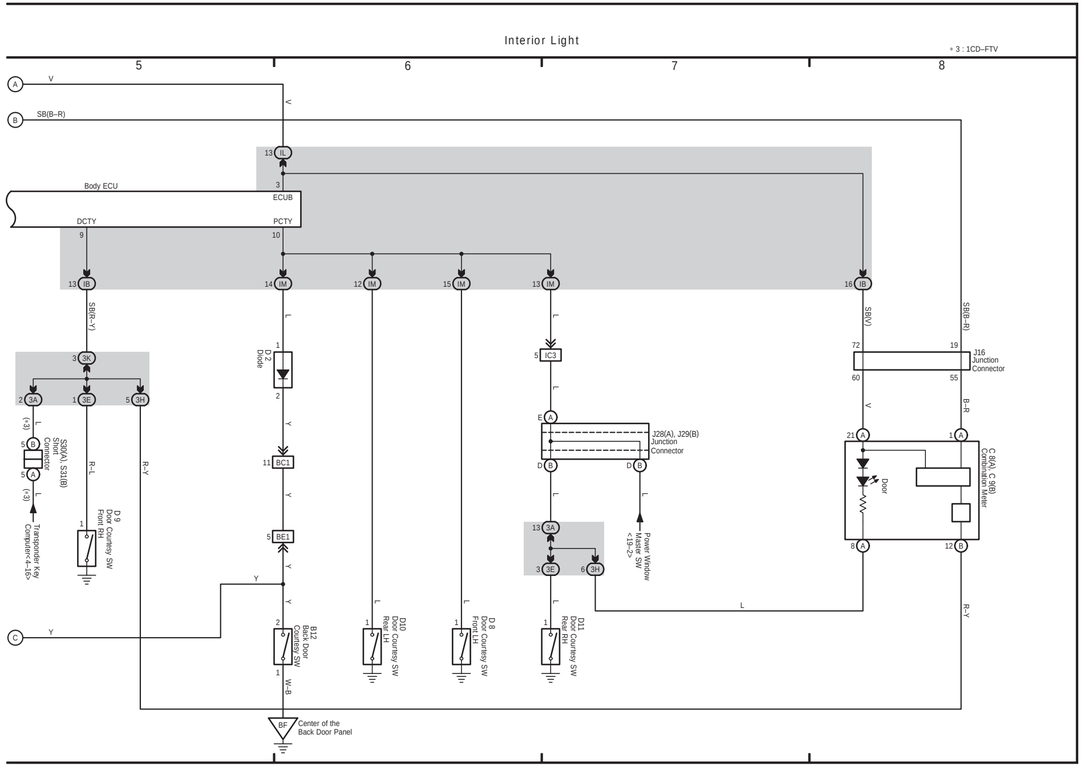

Power Source
Taillight
* 1 : General
1
2
3
4
B10(A)
Body ECU
ECUB
RR DEF
I/UP
TAIL
TRLY
TAIL Relay
10A TAIL
7.5A ECU-B
140A ALT
30A DCC
FL MAIN
3.0W
Battery
Rear Window Defogger and Mirror Heater System <20-2>
Engine and ECT ECU (A/T)<3-8>
Engine ECU (M/T)
C12(A), (B)
Combination SW
Light Control SW
Off
Tail
Head
(Europe)
(Except Europe)
J 3
Junction Connector
Right Kick Panel
Front Side of the Left Quarter Panel
Center of the Back Door Panel
Left Radiator Side Support
J33(A), J34(B)
Junction Connector
J36(A), J37(B)
Junction Connector
R14 Rear Combination Light LH
R15 Rear Combination Light LH
R16 Rear Combination Light RH
R17 Rear Combination Light RH
L1 License Plate Light LH
L2 License Plate Light RH
F1 Front Clearance Light LH
F2 Front Clearance Light RH
J8 Junction Connector
Tail

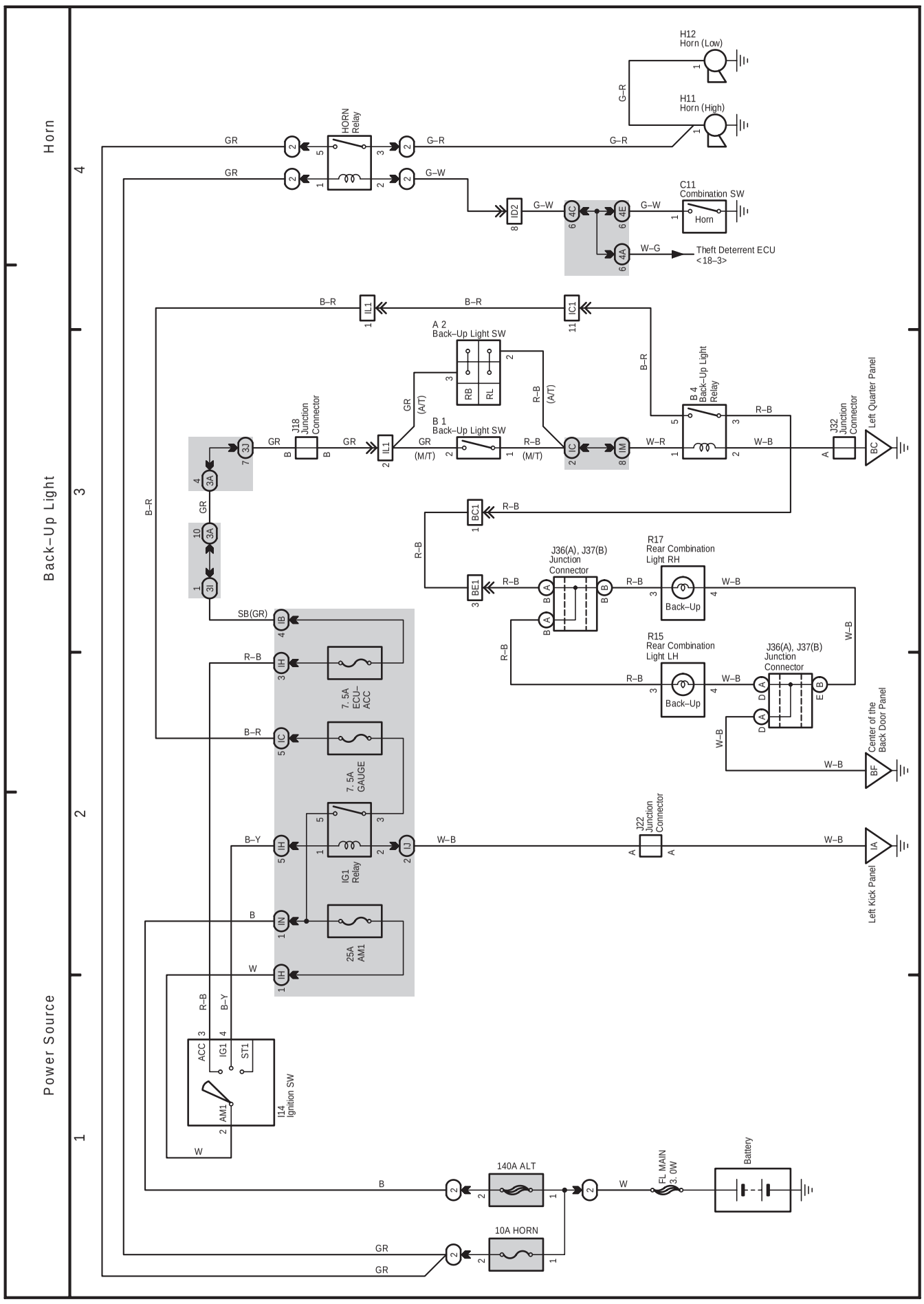

* 1 : w/ Display
* 2 : 1CD–FTV
Illumination
Power Source
R 4(C), R 6(A)
Radio and Player
Behind the Combination Meter
A25
Ashtray Illumination
H15
Heater Control Panel
J16 Junction Connector
C 6
Cigarette Lighter
I16
Idle–Up SW
R11
Rear Heater SW
C 8
Combination Meter
Rheostat
Illumination
H13
Headlight Beam Level Control SW
J 3
Junction Connector
Right Kick Panel
TAIL Relay
Taillight System<7–2>
7. 5A PANEL
140A ALT
FL MAIN 3. 0W
Battery

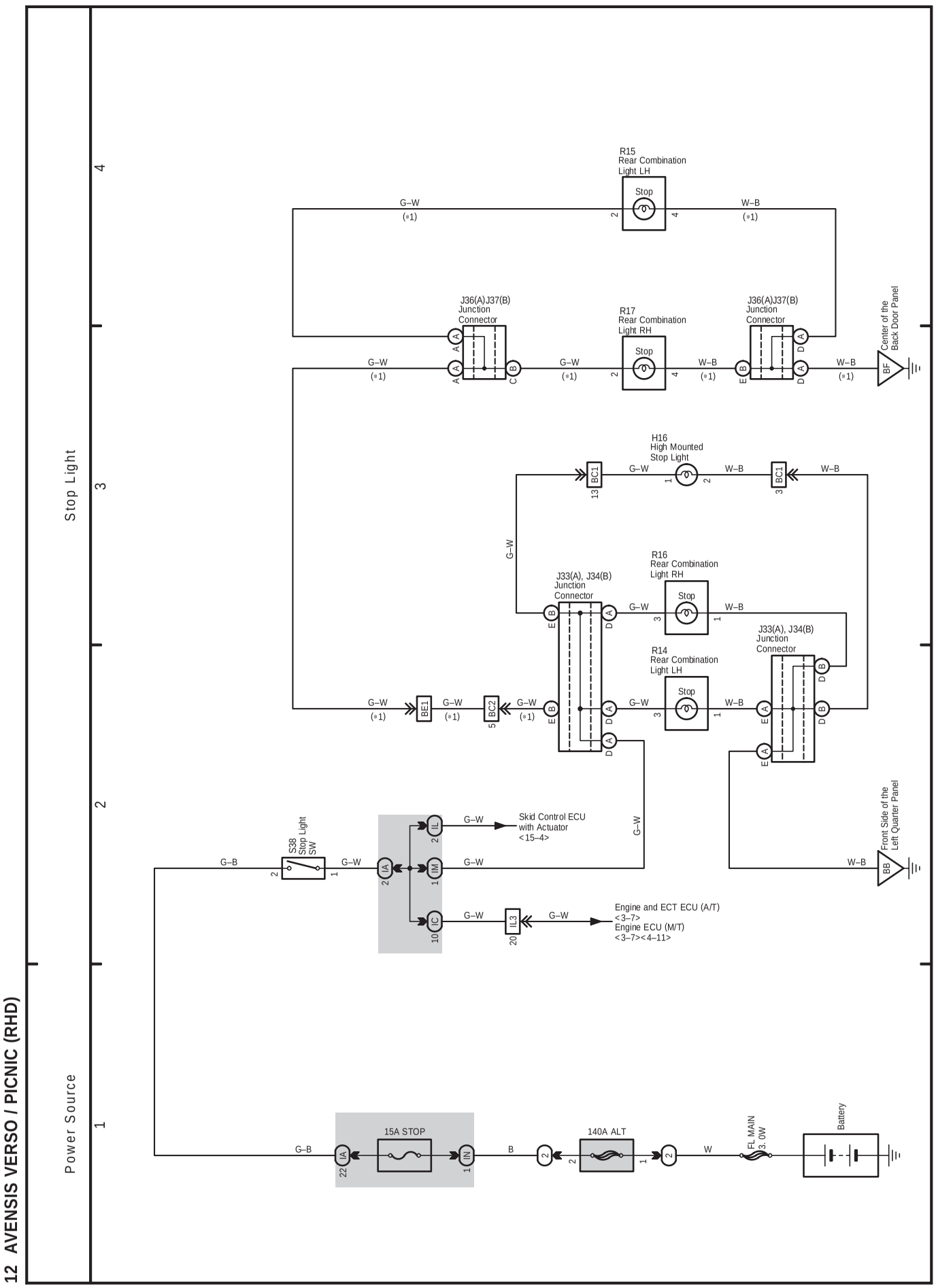

Power Source
Turn Signal and Hazard Warning Light
* 1 : Europe
* 2 : Except Europe
1
2
3
4
L–B
11 IH1
W 2 AM1 ACC IG1 4 B–Y ST1
I14 Ignition SW
SB(B–R)
L–B
19 8 J16 Junction Connector
18 20
SB(B–R) SB(L–B)
1 4
IG +B
T 9 Turn Signal Flasher Relay
EL ER GND EHW LL LR
1 IH 25A AM1
5 1H 7 IB
IG1 Relay
7. 5A GAUGE
1 IN 2 IJ
B–Y
SB(B–R)
W–B
L–B
B
15A HAZ
140A ALT
W
FL MAIN 3. 0W
Battery
J22 Junction Connector
A Left Kick Panel
SB(W–G)
SB(W–L)
SB(W–B)
SB(G–W)
SB(G–B)
SB(G–Y)
S14(A), S15(B) Short Connector
J16 Junction Connector
G–W
W–G
W–L
H15 Heater Control Panel
HAZ
GND
Body ECU
G–B
Turn SW
TL TB TR
RH
LH
C12 Combination SW
(*1)
(*2)
W–B
J 3 Junction Connector
3I 3K 3F 3H
J 8 Junction Connector
F 7 Front Turn Signal Light LH
F 5 Front Side Turn Signal Light LH
R23 Rear Turn Signal Light LH
Turn LH
Turn RH
C 8(A), C 9(B) Combination Meter
J33(A), J34(B) Junction Connector
R24 Rear Turn Signal Light RH
F 8 Front Turn Signal Light RH
F 6 Front Side Turn Signal Light RH
J15 Junction Connector
IC Right Kick Panel
EA Left Radiator Side Support
BB Front Side of the Left Quarter Panel
Right Radiator Side Support
EB

(Cont. next page)

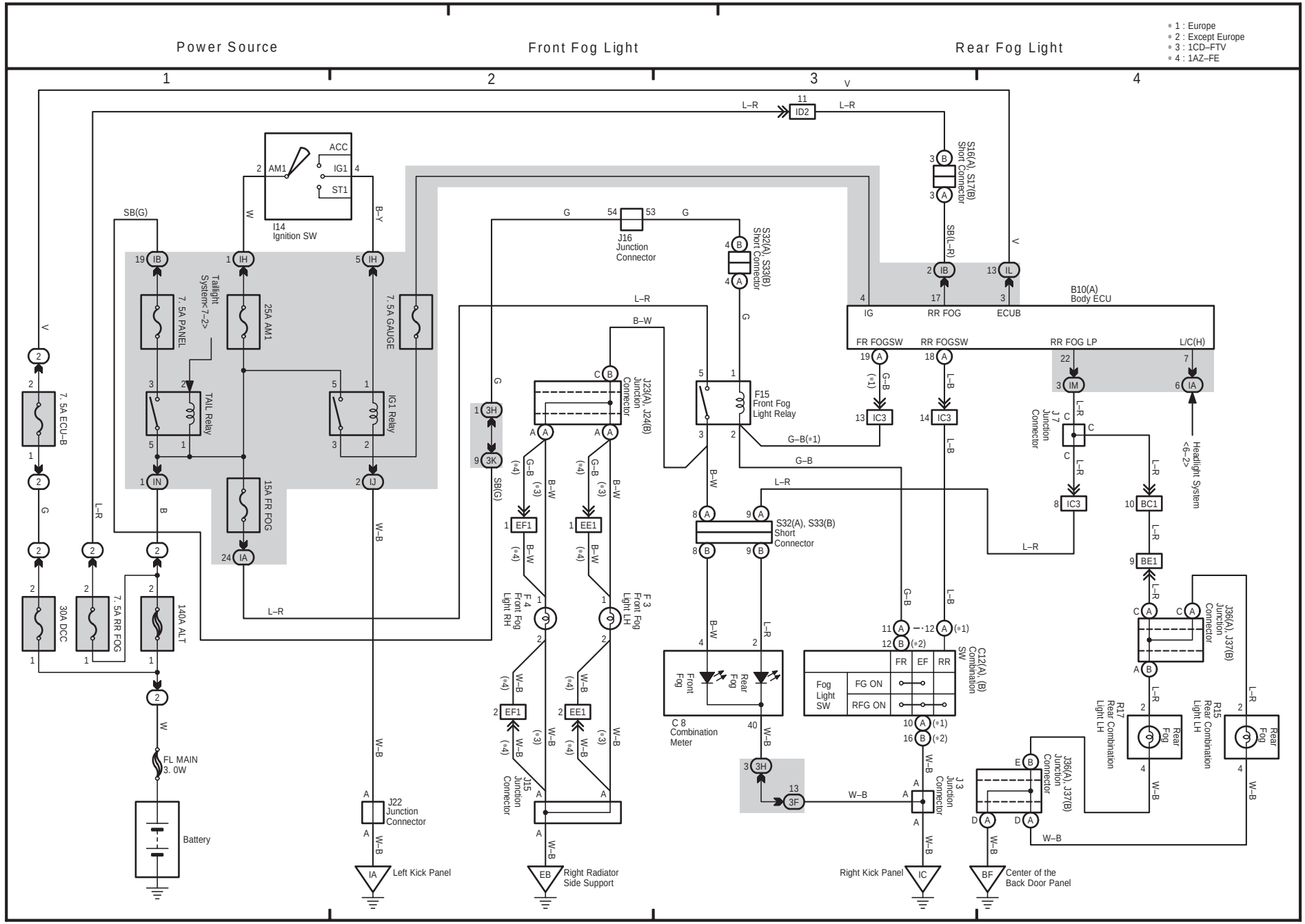


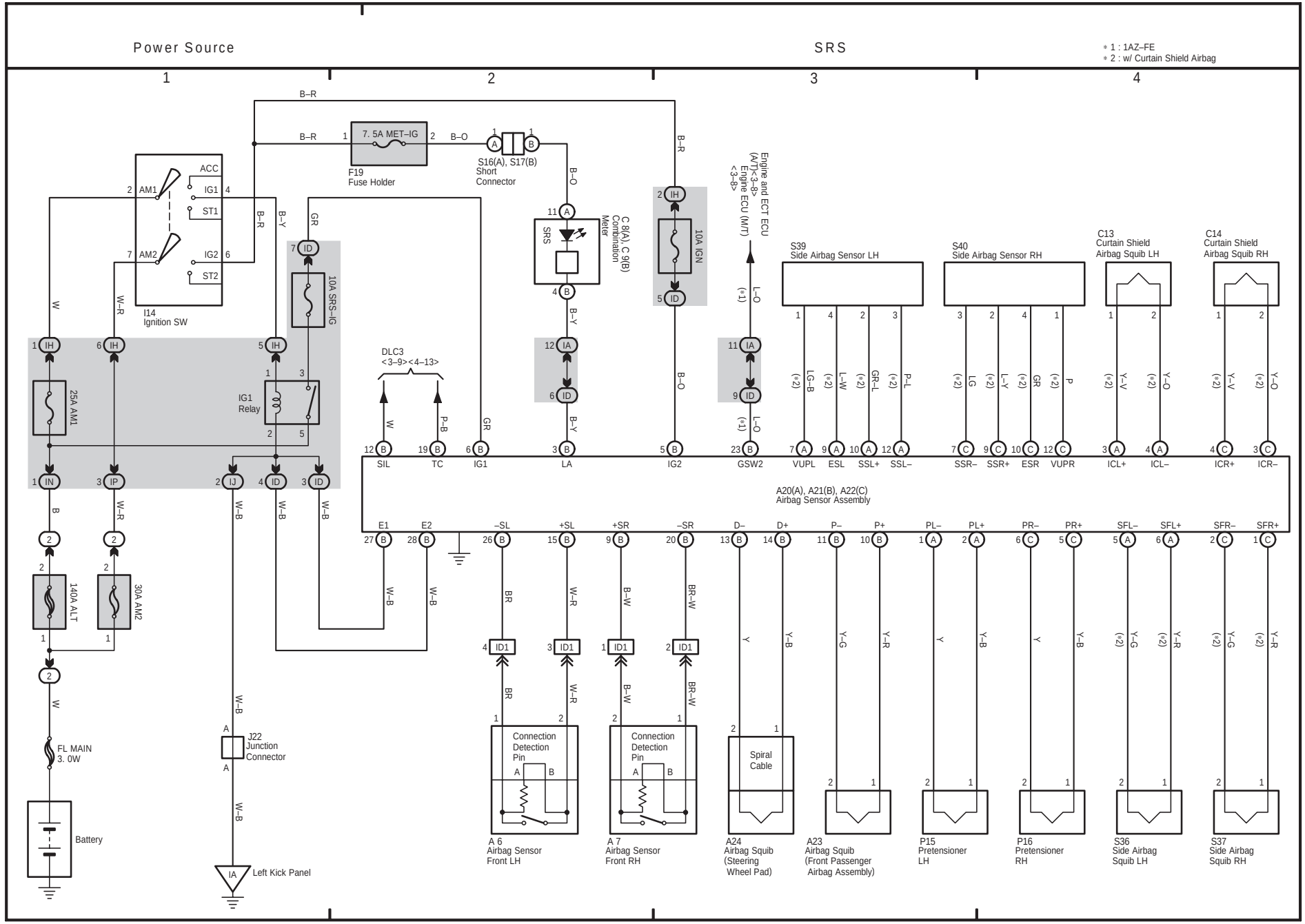



11 AVENSIS VERSO / PICNIC (RHD)
Horn
Back–Up Light
Power Source
H12 Horn (Low)
H11 Horn (High)
HORN Relay
C11 Combination SW
Horn
Theft Deterrent ECU <18–3>
A 2 Back–Up Light SW
B 1 Back–Up Light SW
J18 Junction Connector
B 4 Back–Up Light Relay
J32 Junction Connector
Left Quarter Panel
J36(A), J37(B) Junction Connector
R17 Rear Combination Light RH
R15 Rear Combination Light LH
Back–Up
Center of the Back Door Panel
J22 Junction Connector
Left Kick Panel
7.5A ECU–ACC
7.5A GAUGE
IG1 Relay
25A AM1
I14 Ignition SW
ACC
IG1
ST1
AM1
140A ALT
10A HORN
FL MAIN 3. 0W
Battery

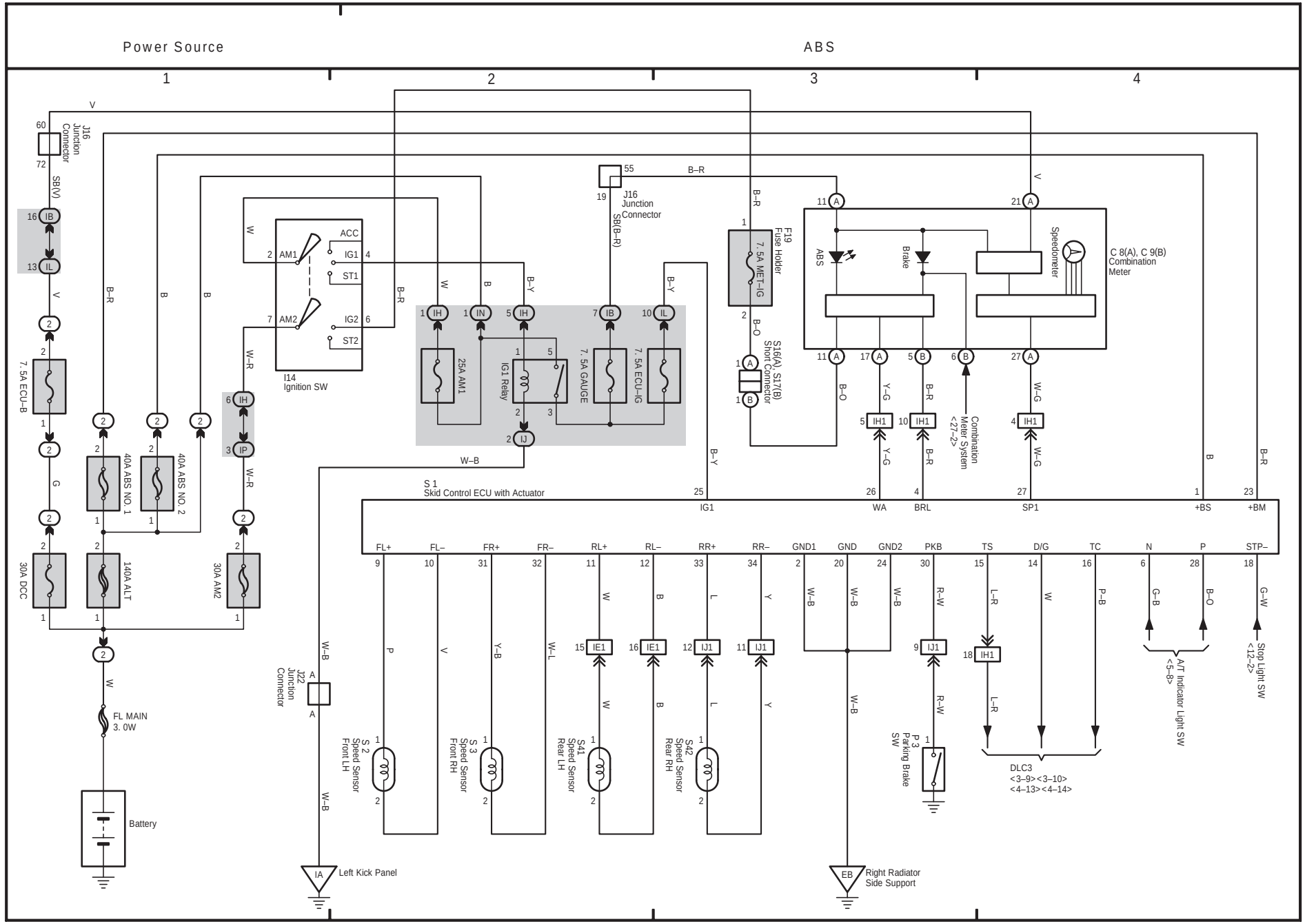

12 AVENSIS VERSO / PICNIC (RHD)
Power Source
Stop Light
1
2
3
4
R15
Rear Combination
Light LH
Stop
G–W
(*1)
W–B
(*1)
J36(A)J37(B)
Junction
Connector
R17
Rear Combination
Light RH
Center of the
Back Door Panel
BF
H16
High Mounted
Stop Light
BC1
R16
Rear Combination
Light RH
J33(A), J34(B)
Junction
Connector
R14
Rear Combination
Light LH
BE1
BC2
S38
Stop Light
SW
Skid Control ECU
with Actuator
<15–4>
Front Side of the
Left Quarter Panel
BB
Engine and ECT ECU (A/T)
<3–7>
Engine ECU (M/T)
<3–7><4–11>
15A STOP
140A ALT
FL MAIN
3. 0W
Battery
G–B
B
W

13 AVENSIS VERSO / PICNIC (RHD)




Power Source
SRS
* 1 : 1AZ–FE
* 2 : w/ Curtain Shield Airbag
1
2
3
4
B–R
7. 5A MET–IG
F19
Fuse Holder
B–O
S16(A), S17(B)
Short
Connector
ACC
IG1
ST1
IG2
ST2
AM1
AM2
I14
Ignition SW
W
W–R
B–Y
GR
10A SRS–IG
IG1
Relay
25A AM1
140A ALT
30A AM2
FL MAIN
3. 0W
Battery
J22
Junction
Connector
W–B
IA
Left Kick Panel
C 8(A), C 9(B)
Combination
Meter
SRS
10A IGN
Engine and ECT ECU
(A/T)<3–8>
Engine ECU (M/T)
<3–8>
L–O
(*1)
DLC3
<3–9><4–13>
P–B
S39
Side Airbag Sensor LH
S40
Side Airbag Sensor RH
C13
Curtain Shield
Airbag Squib LH
C14
Curtain Shield
Airbag Squib RH
LG–B
L–W
GR–L
P–L
LG
L–Y
GR
P
Y–V
Y–O
(*2)
SIL
TC
IG1
LA
IG2
GSW2
VUPL
ESL
SSL+
SSL–
SSR–
SSR+
ESR
VUPR
ICL+
ICL–
ICR+
ICR–
A20(A), A21(B), A22(C)
Airbag Sensor Assembly
E1
E2
–SL
+SL
+SR
–SR
D–
D+
P–
P+
PL–
PL+
PR–
PR+
SFL–
SFL+
SFR–
SFR+
BR
BR–W
Y
Y–B
Y–G
Y–R
ID1
Connection
Detection
Pin
Spiral
Cable
A 6
Airbag Sensor
Front LH
A 7
Airbag Sensor
Front RH
A24
Airbag Squib
(Steering
Wheel Pad)
A23
Airbag Squib
(Front Passenger
Airbag Assembly)
P15
Pretensioner
LH
P16
Pretensioner
RH
S36
Side Airbag
Squib LH
S37
Side Airbag
Squib RH

15 AVENSIS VERSO / PICNIC (RHD)



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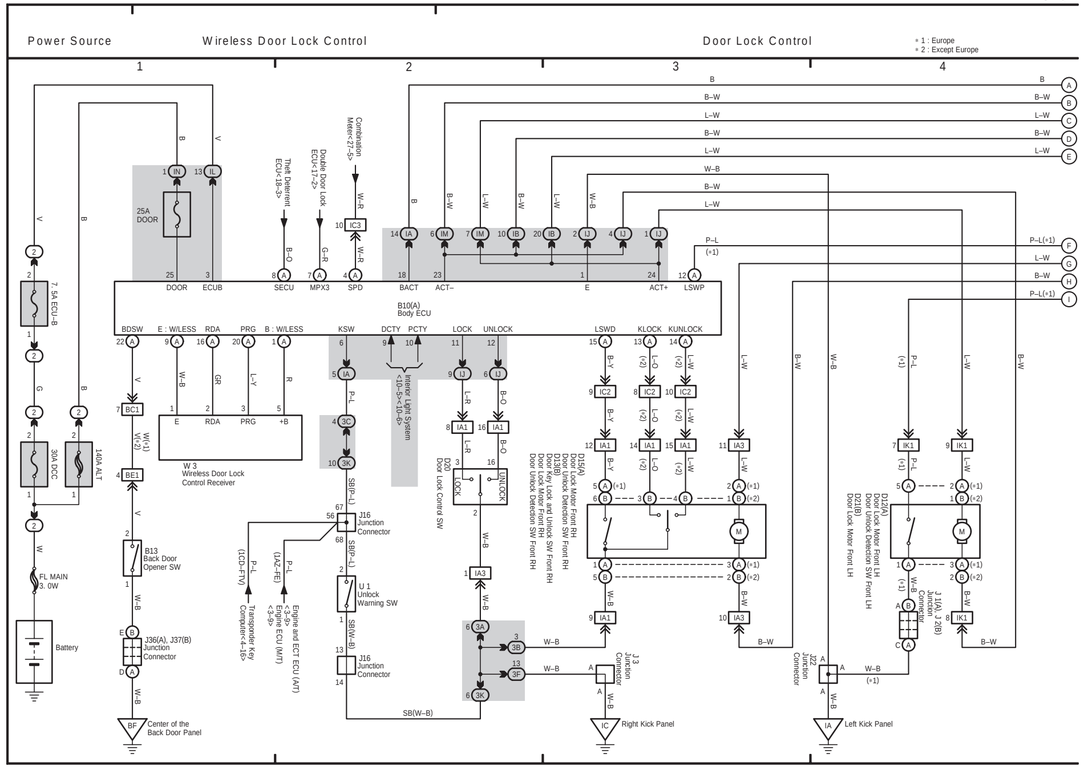
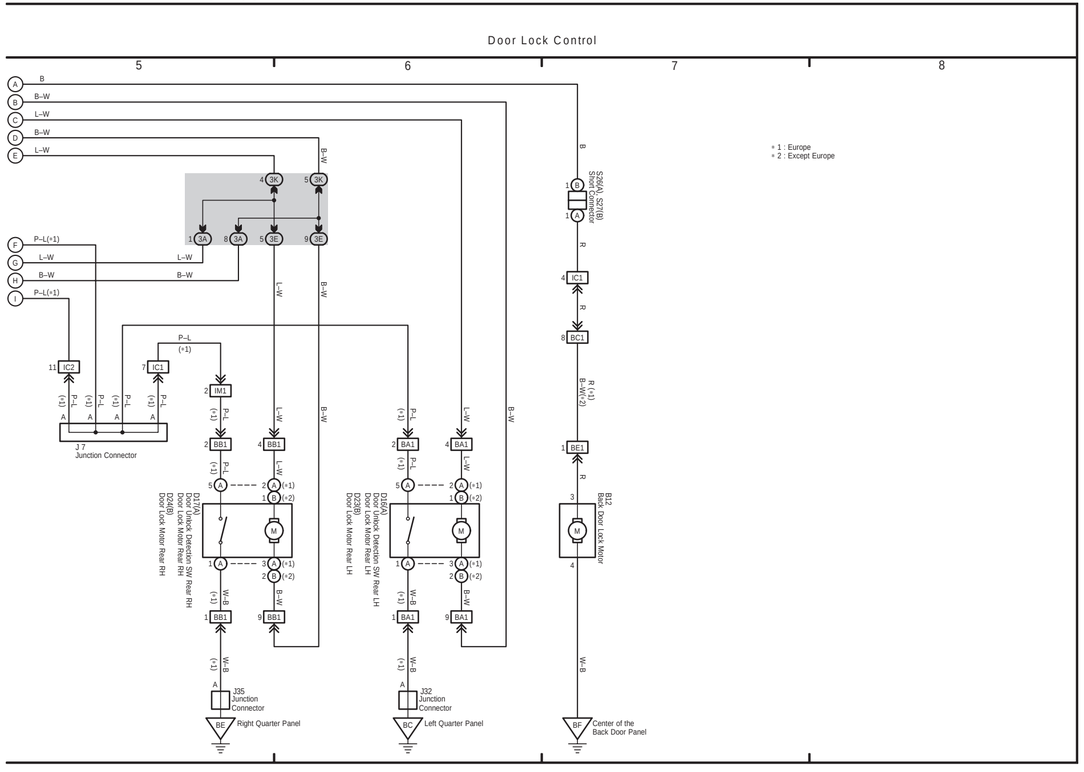
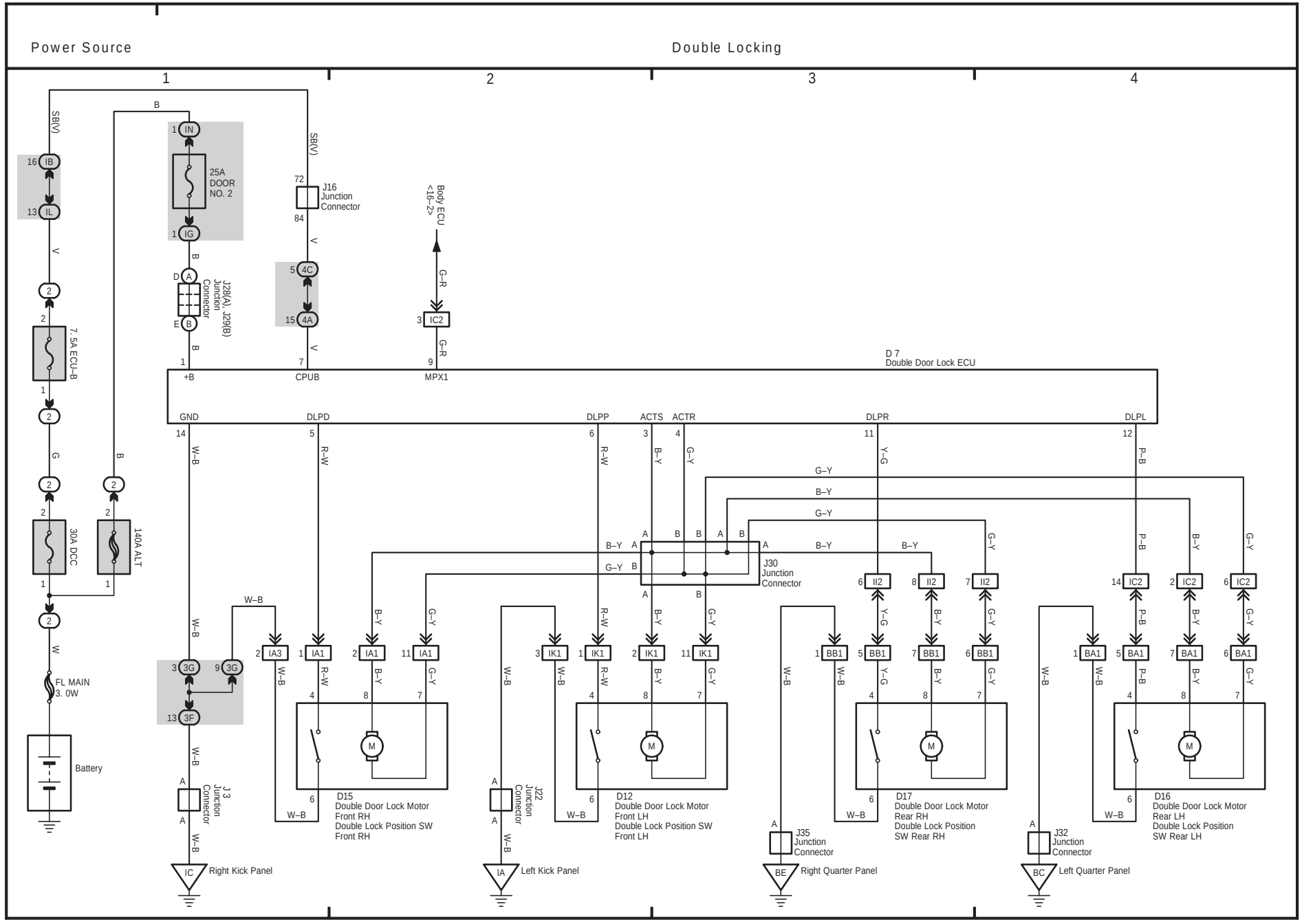
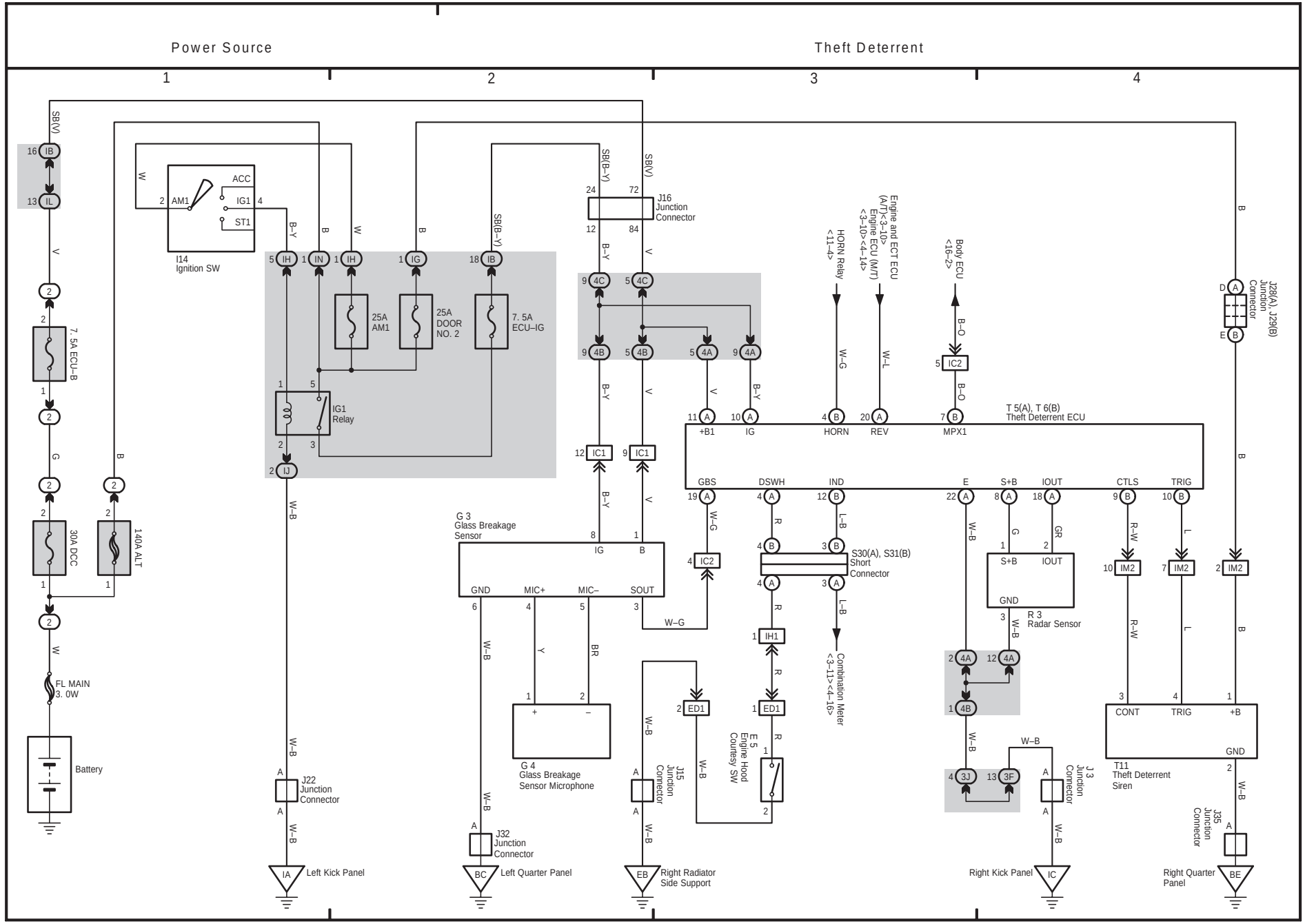




17 AVENSIS VERSO / PICNIC (RHD)




Power Source
Theft Deterrent
1
2
3
4
SB(V)
16 IB
13 IL
V
2
7. 5A ECU–B
1
G
30A DCC
140A ALT
W
FL MAIN
3. 0W
Battery
W
ACC
2 AM1
IG1 4
ST1
I14
Ignition SW
B–Y
B
W
SB(B–Y)
5 IH
1 IN
1 IH
1 IG
18 IB
25A
AM1
25A
DOOR
NO. 2
7. 5A
ECU–IG
IG1
Relay
2 IJ
W–B
A
J22
Junction
Connector
A
W–B
IA
Left Kick Panel
SB(B–Y)
SB(V)
24
72
J16
Junction
Connector
12
84
B–Y
V
9 4C
5 4C
9 4B
5 4B
5 4A
9 4A
B–Y
V
B–Y
12 IC1
9 IC1
B–Y
V
G 3
Glass Breakage
Sensor
8
1
IG
B
GND
MIC+
MIC–
SOUT
6
4
5
3
W–B
Y
BR
W–G
1
2
+
–
G 4
Glass Breakage
Sensor Microphone
A
J32
Junction
Connector
A
W–B
BC
Left Quarter Panel
HORN Relay
<11–4>
W–G
Engine and ECT ECU
(A/T)<3–10>
Engine ECU (M/T)
<3–10><4–14>
W–L
Body ECU
<16–2>
B–O
5 IC2
B–O
11 A
+B1
10 A
IG
4 B
HORN
20 A
REV
7 B
MPX1
T 5(A), T 6(B)
Theft Deterrent ECU
GBS
DSWH
IND
E
S+B
IOUT
CTLS
TRIG
19 A
4 A
12 B
22 A
8 A
18 A
9 B
10 B
W–G
4 IC2
R
L–B
4 B
3 B
S30(A), S31(B)
Short
Connector
4 A
3 A
R
1 IH1
R
2 ED1
1 ED1
R
1
2
W–B
A
J15
Junction
Connector
A
W–B
EB
Right Radiator
Side Support
E 5
Engine Hood
Courtesy SW
L–B
Combination Meter
<3–11><4–16>
W–B
G
GR
1
2
S+B
IOUT
GND
3
W–B
R 3
Radar Sensor
2 4A
12 4A
1 4B
W–B
4 3J
13 3F
W–B
A
J 3
Junction
Connector
A
W–B
IC
Right Kick Panel
R–W
L
10 IM2
7 IM2
R–W
L
3
4
CONT
TRIG
+B
GND
T11
Theft Deterrent
Siren
2
W–B
J35
Junction
Connector
A
Right Quarter
Panel
BE
B
D A
E B
J28(A), J29(B)
Junction
Connector
B
2 IM2
B
W–B

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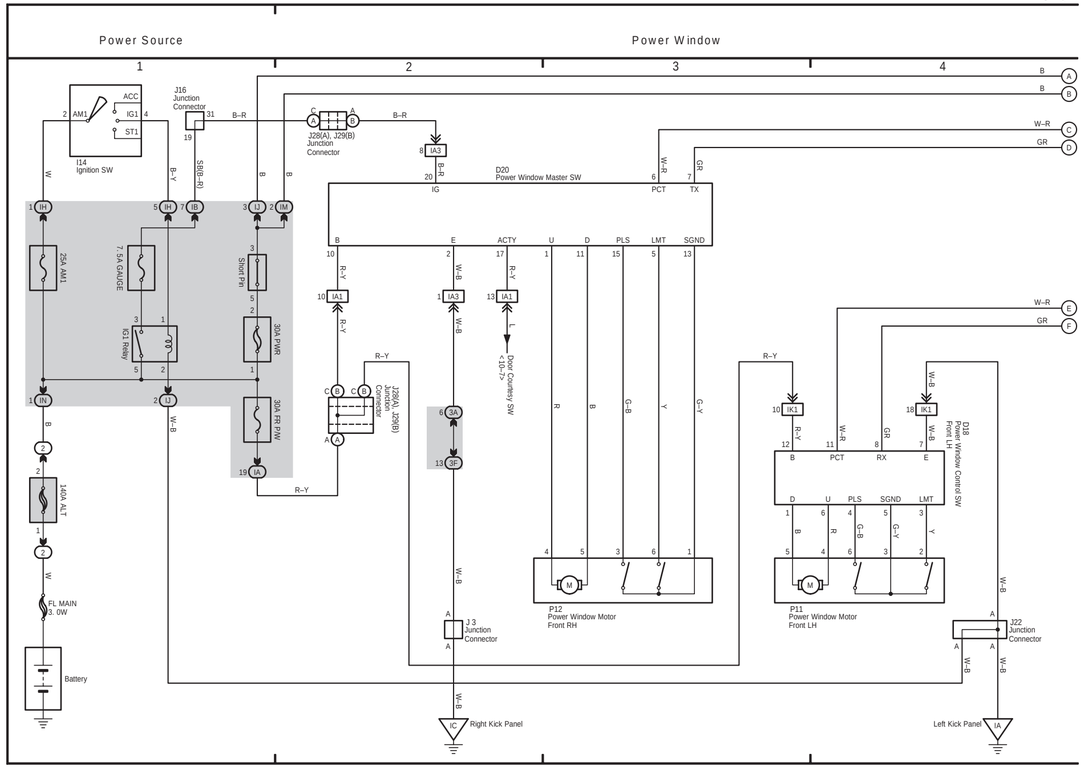
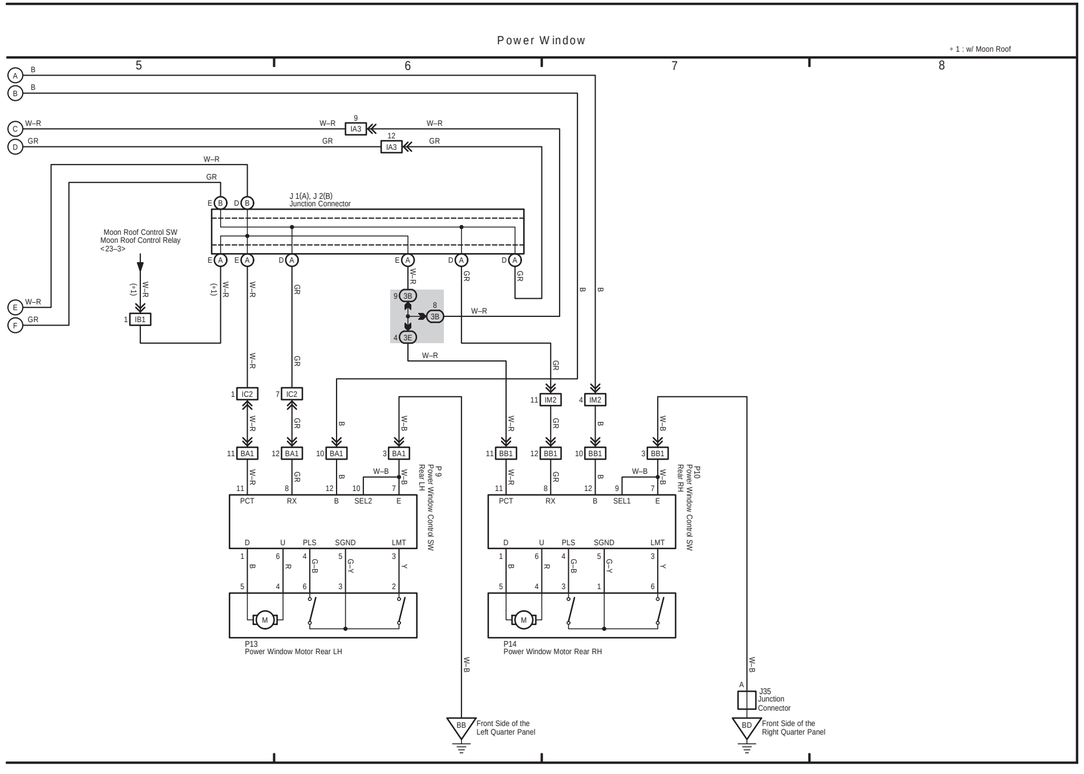
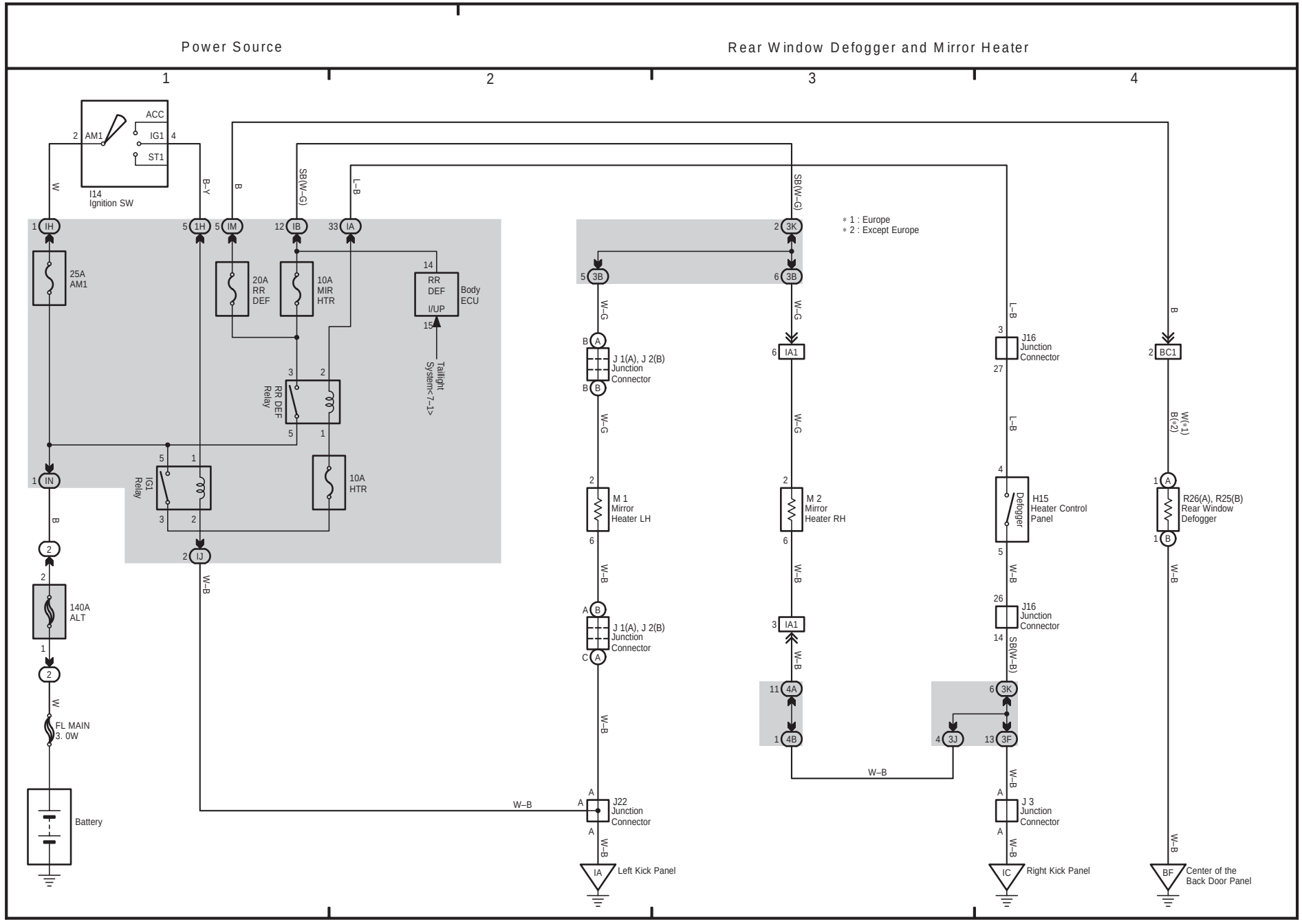
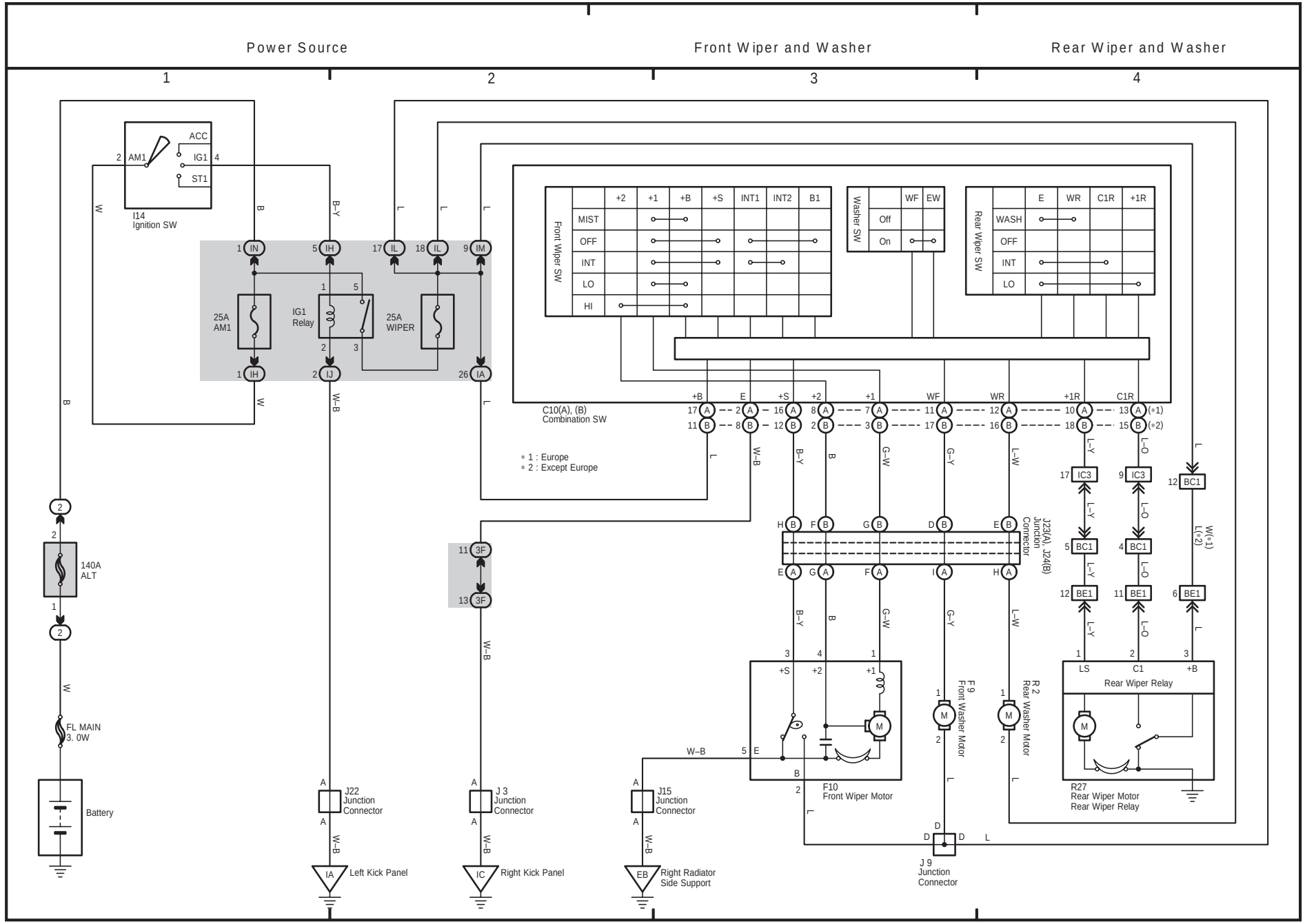


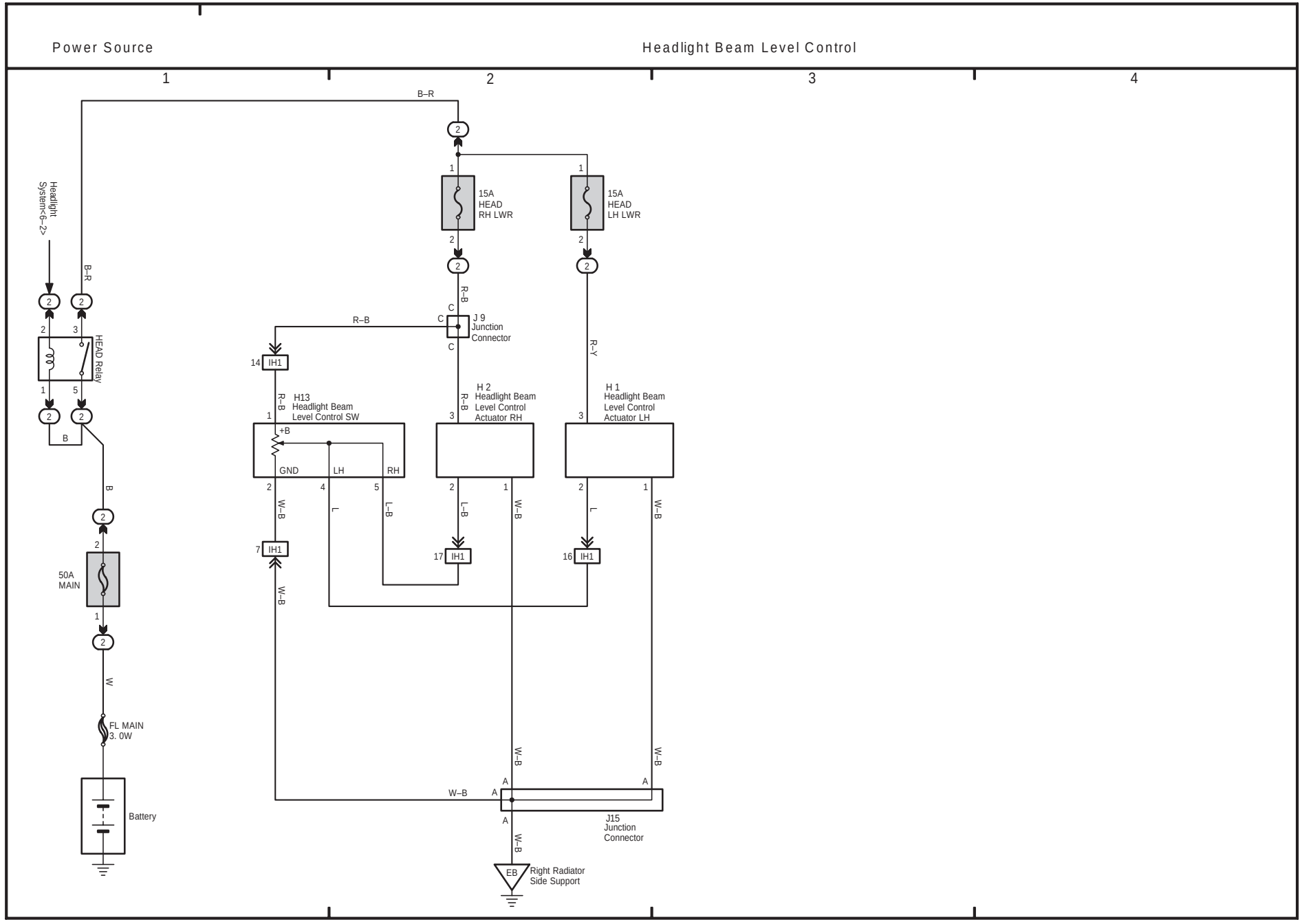


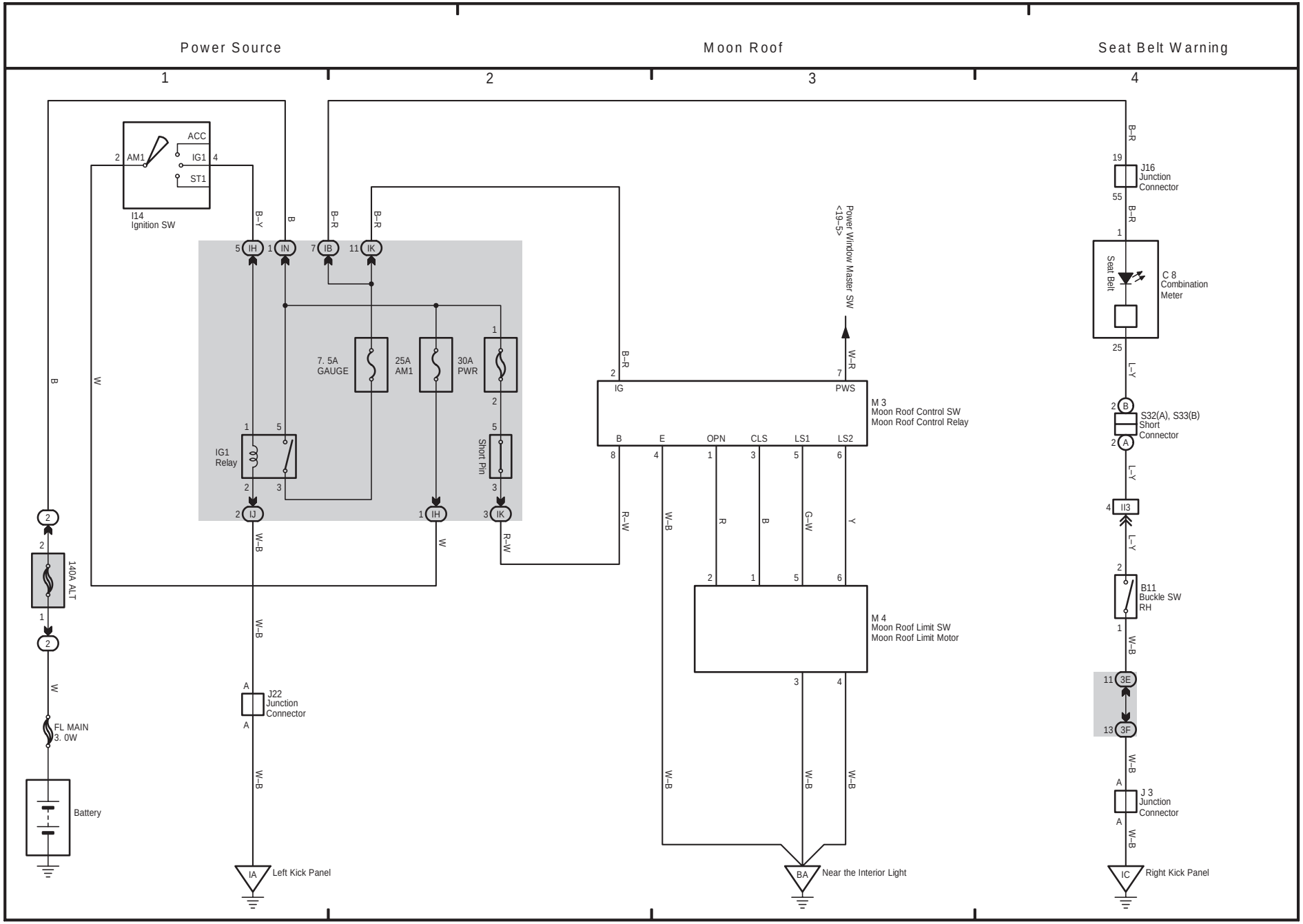
20 AVENSIS VERSO / PICNIC (RHD)



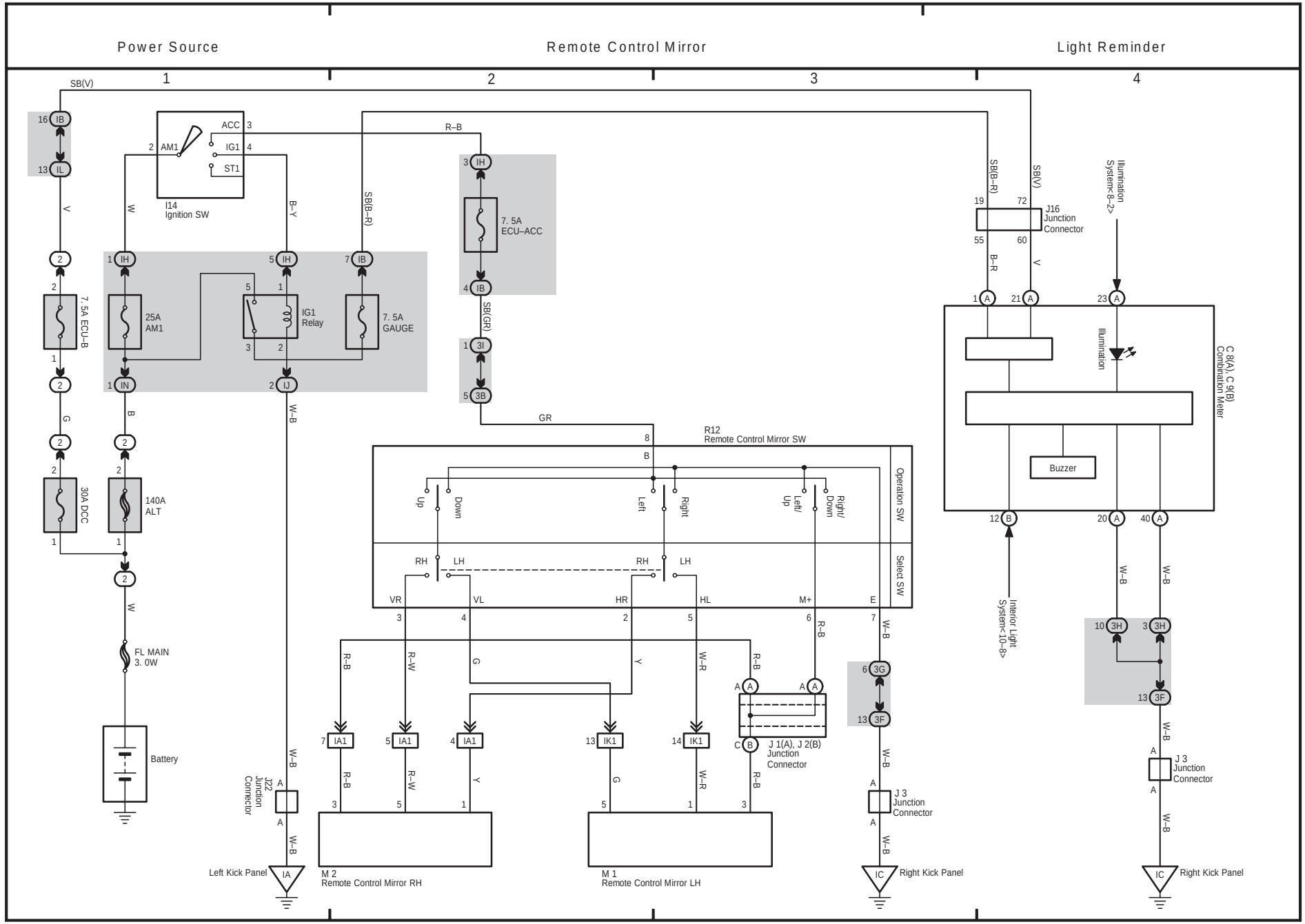

Power Source
Front Wiper and Washer
Rear Wiper and Washer
1
2
3
4
ACC
AM1
IG1
ST1
I14
Ignition SW
25A
AM1
IG1
Relay
25A
WIPER
Front Wiper SW
MIST
OFF
INT
LO
HI
Washer SW
Off
On
Rear Wiper SW
WASH
OFF
INT
LO
C10(A), (B)
Combination SW
＊1 : Europe
＊2 : Except Europe
140A
ALT
FL MAIN
3. 0W
Battery
J22
Junction
Connector
J 3
Junction
Connector
J15
Junction
Connector
Left Kick Panel
Right Kick Panel
Right Radiator
Side Support
F10
Front Wiper Motor
F 9
Front Washer Motor
R 2
Rear Washer Motor
J 9
Junction
Connector
J23(A), J24(B)
Junction
Connector
Rear Wiper Relay
R27
Rear Wiper Motor
Rear Wiper Relay

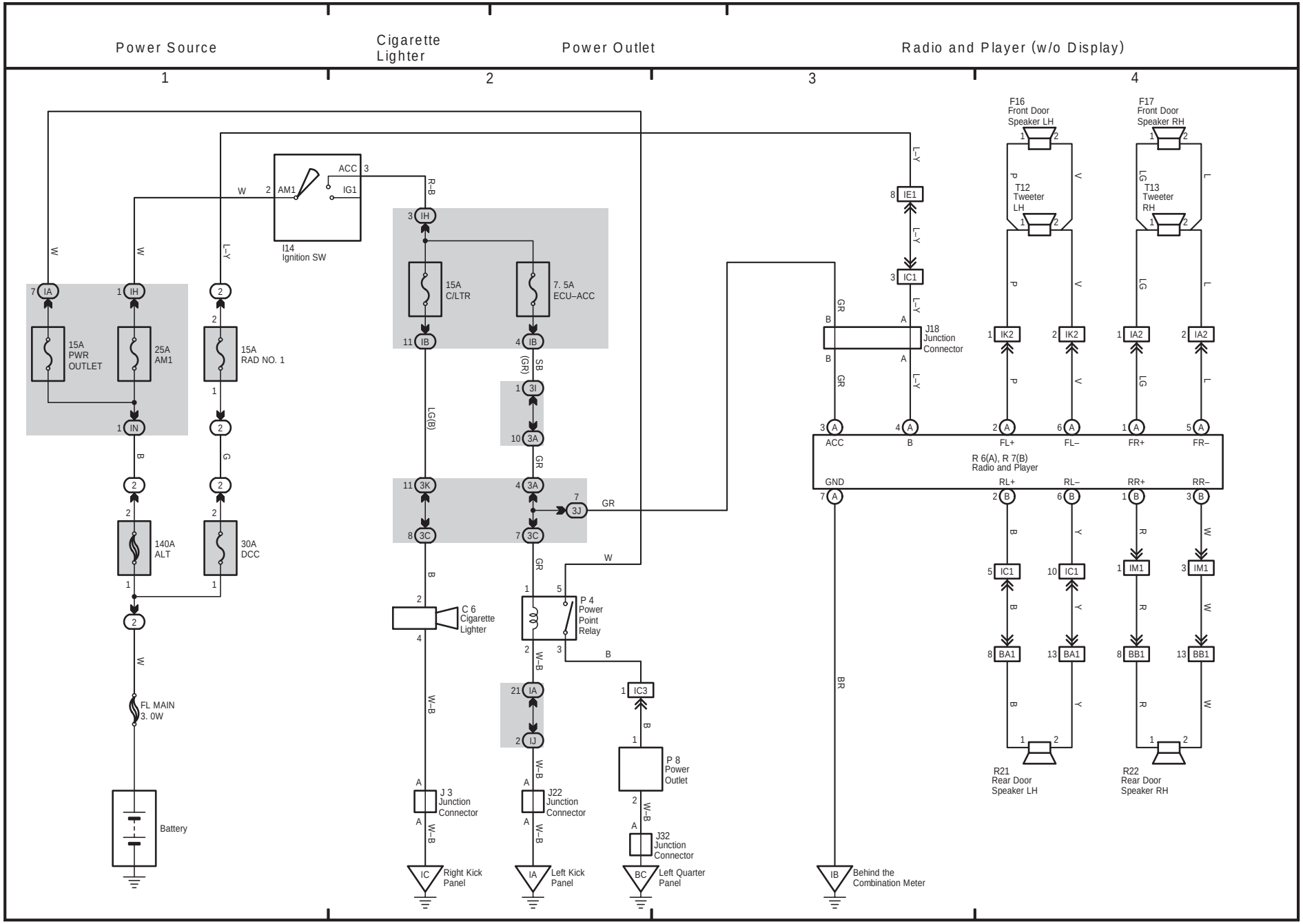
22 AVENSIS VERSO / PICNIC (RHD)



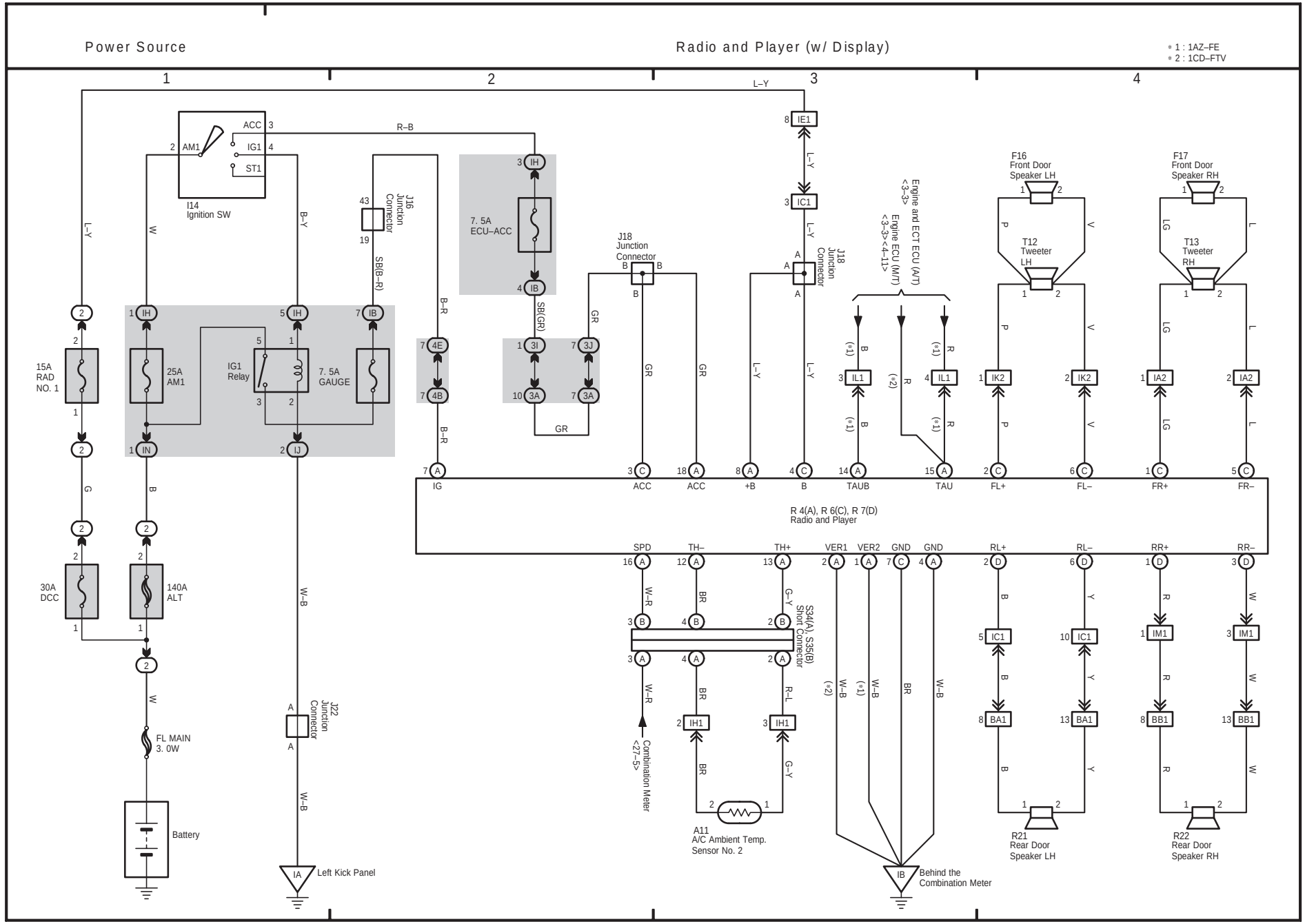

Power Source
Moon Roof
Seat Belt Warning
1
2
3
4
ACC
AM1
IG1
ST1
I14
Ignition SW
IH
IN
IB
IK
7. 5A
GAUGE
25A
AM1
30A
PWR
IG1
Relay
Short Pin
IJ
140A ALT
FL MAIN
3. 0W
Battery
J22
Junction
Connector
Left Kick Panel
Power Window Master SW
<19–5>
M 3
Moon Roof Control SW
Moon Roof Control Relay
IG
PWS
B
E
OPN
CLS
LS1
LS2
M 4
Moon Roof Limit SW
Moon Roof Limit Motor
Near the Interior Light
J16
Junction
Connector
C 8
Combination
Meter
Seat Belt
S32(A), S33(B)
Short
Connector
II3
B11
Buckle SW
RH
3E
3F
J 3
Junction
Connector
Right Kick Panel

24 AVENSIS VERSO / PICNIC (RHD)




Power Source
Cigarette Lighter
Power Outlet
Radio and Player (w/o Display)
1
2
3
4
ACC
IG1
AM1
I14
Ignition SW
15A
PWR
OUTLET
25A
AM1
15A
RAD NO. 1
140A
ALT
30A
DCC
FL MAIN
3. 0W
Battery
15A
C/LTR
7. 5A
ECU–ACC
C 6
Cigarette
Lighter
P 4
Power
Point
Relay
J 3
Junction
Connector
J22
Junction
Connector
P 8
Power
Outlet
J32
Junction
Connector
Right Kick
Panel
Left Kick
Panel
Left Quarter
Panel
J18
Junction
Connector
Behind the
Combination Meter
F16
Front Door
Speaker LH
F17
Front Door
Speaker RH
T12
Tweeter
LH
T13
Tweeter
RH
R 6(A), R 7(B)
Radio and Player
ACC
B
FL+
FL–
FR+
FR–
GND
RL+
RL–
RR+
RR–
R21
Rear Door
Speaker LH
R22
Rear Door
Speaker RH

26 AVENSIS VERSO / PICNIC (RHD)



27 AVENSIS VERSO / PICNIC (RHD)

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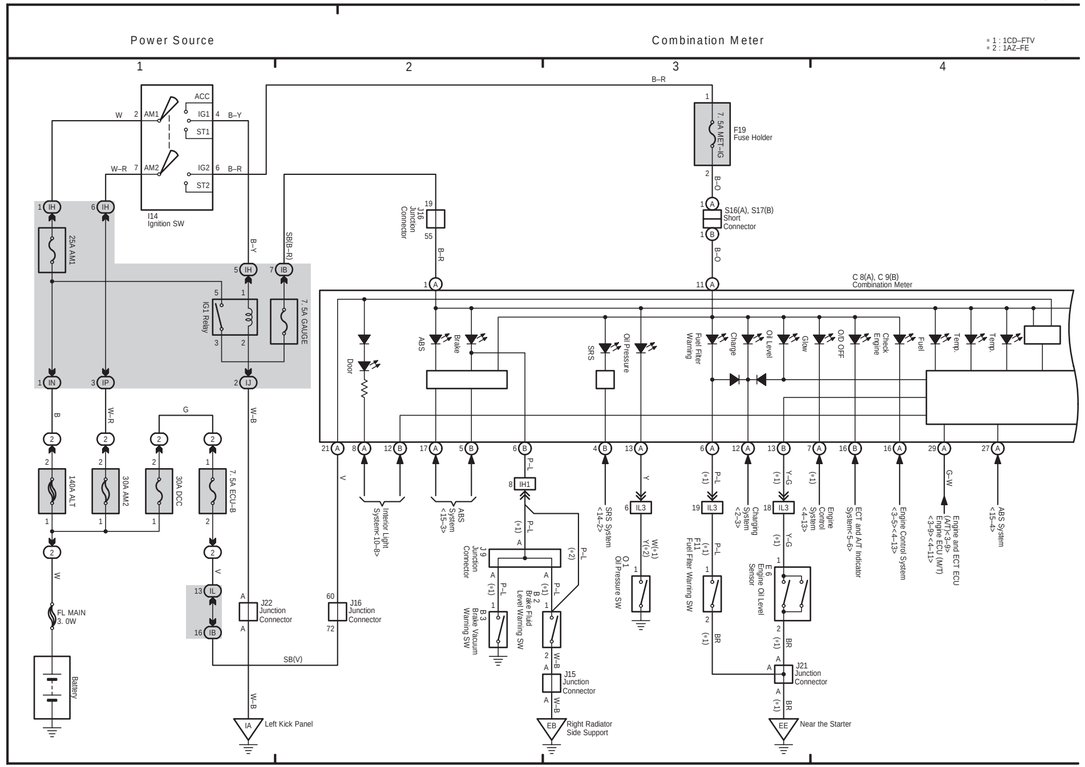
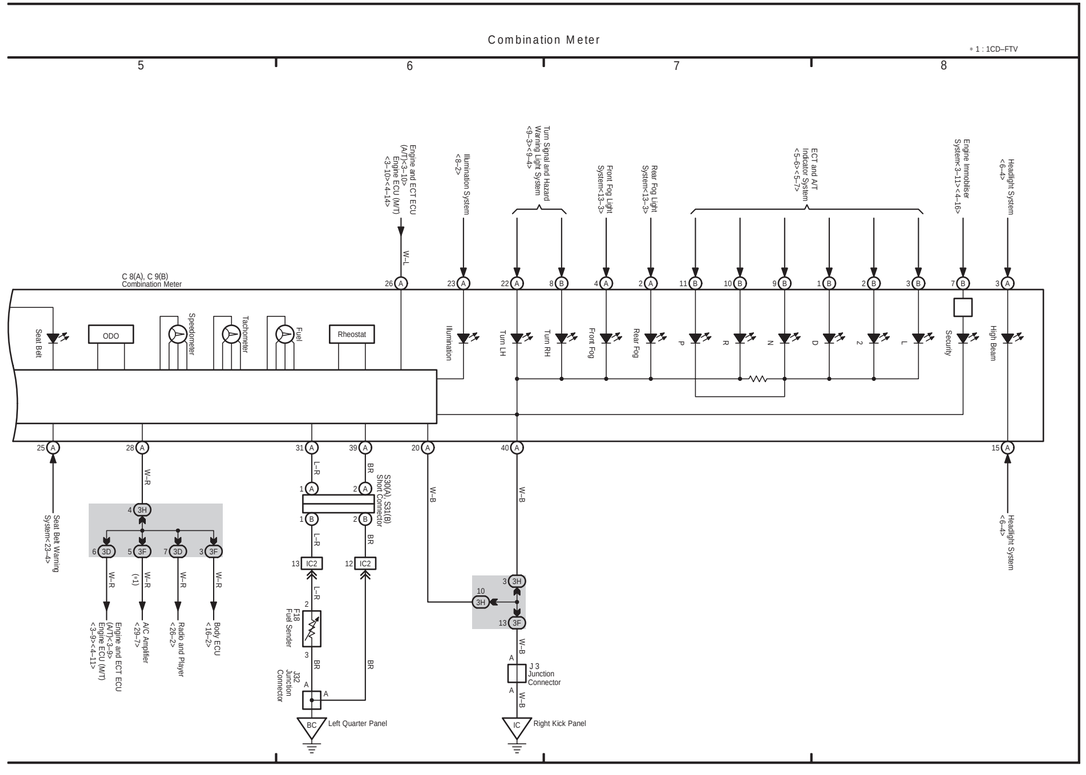
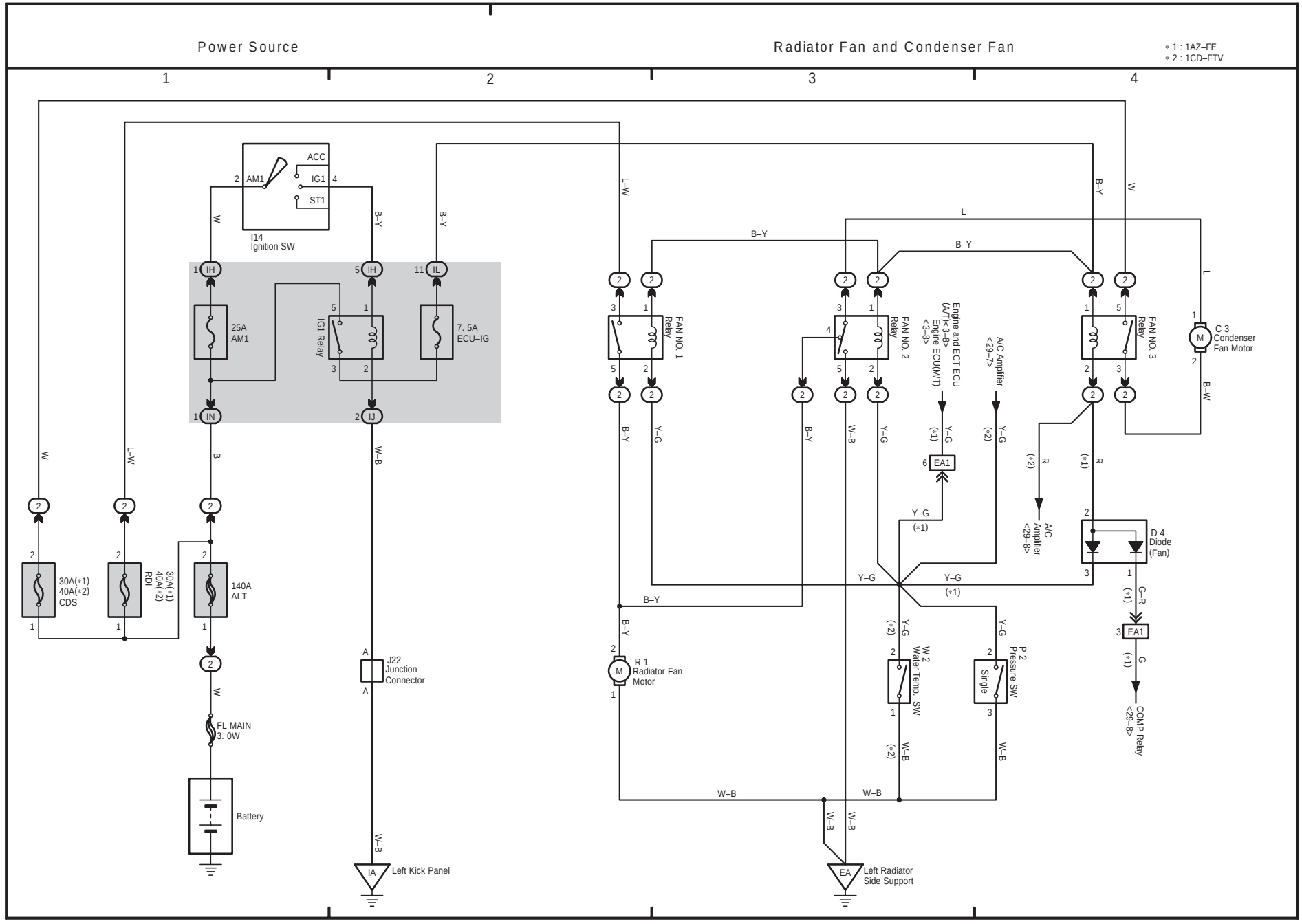


27 AVENSIS VERSO / PICNIC (RHD) (Cont' d)



28 AVENSIS VERSO / PICNIC (RHD)



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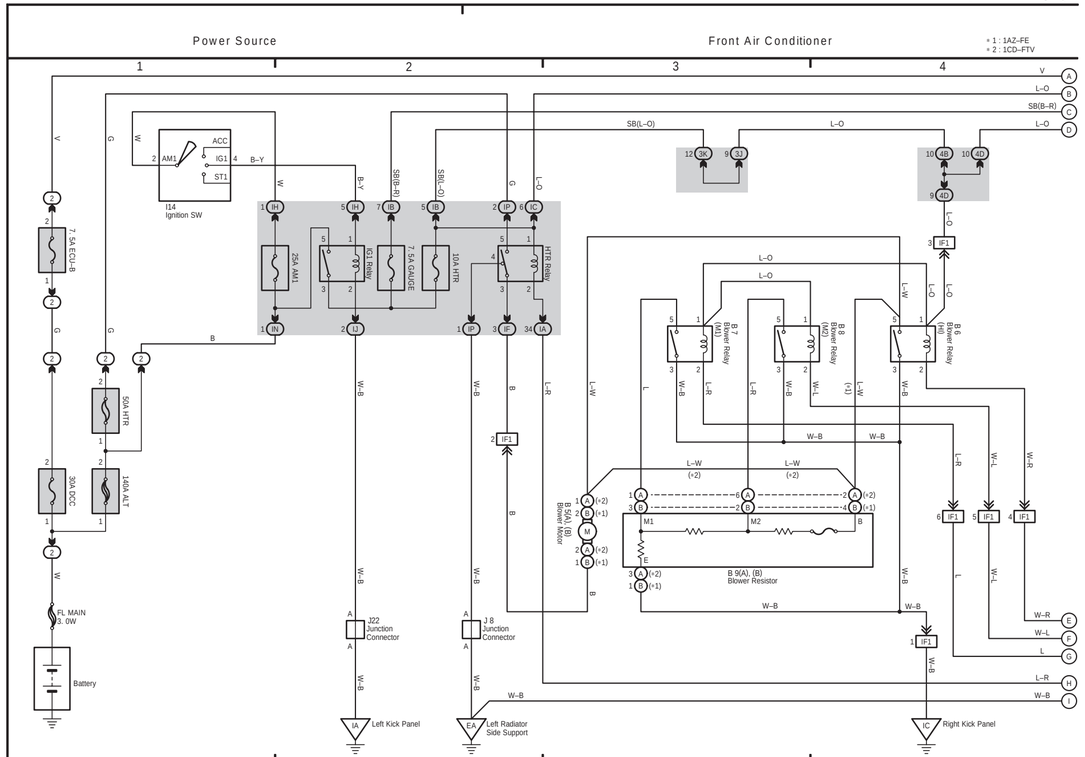
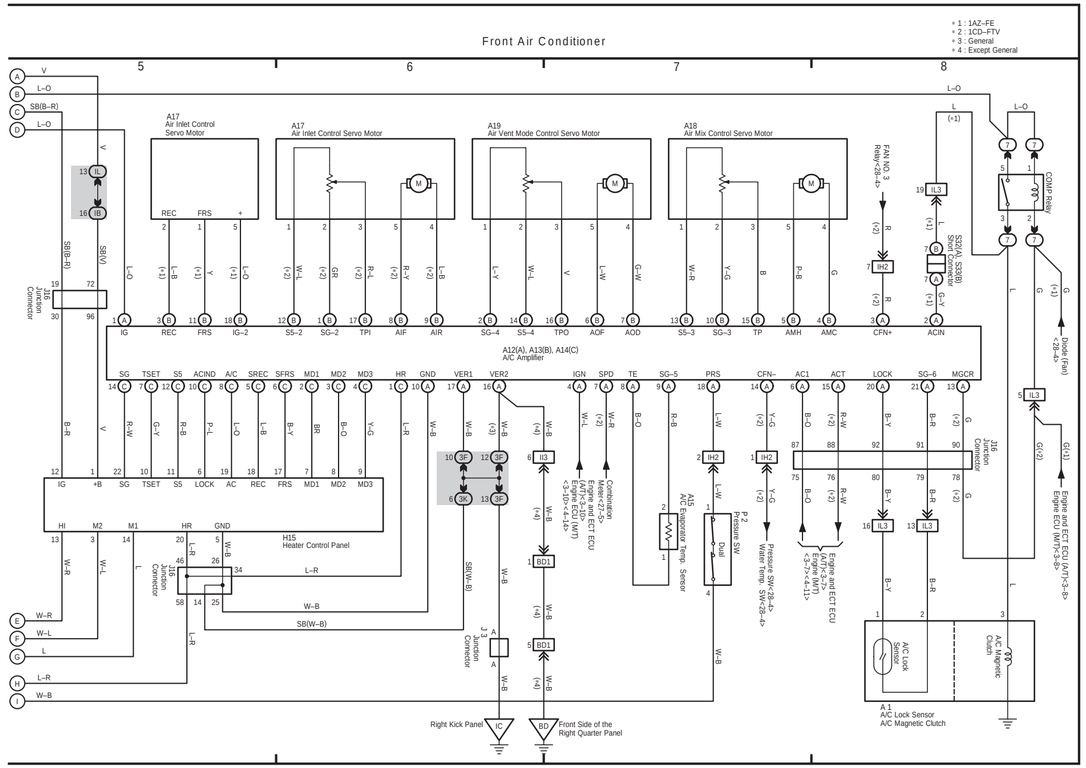
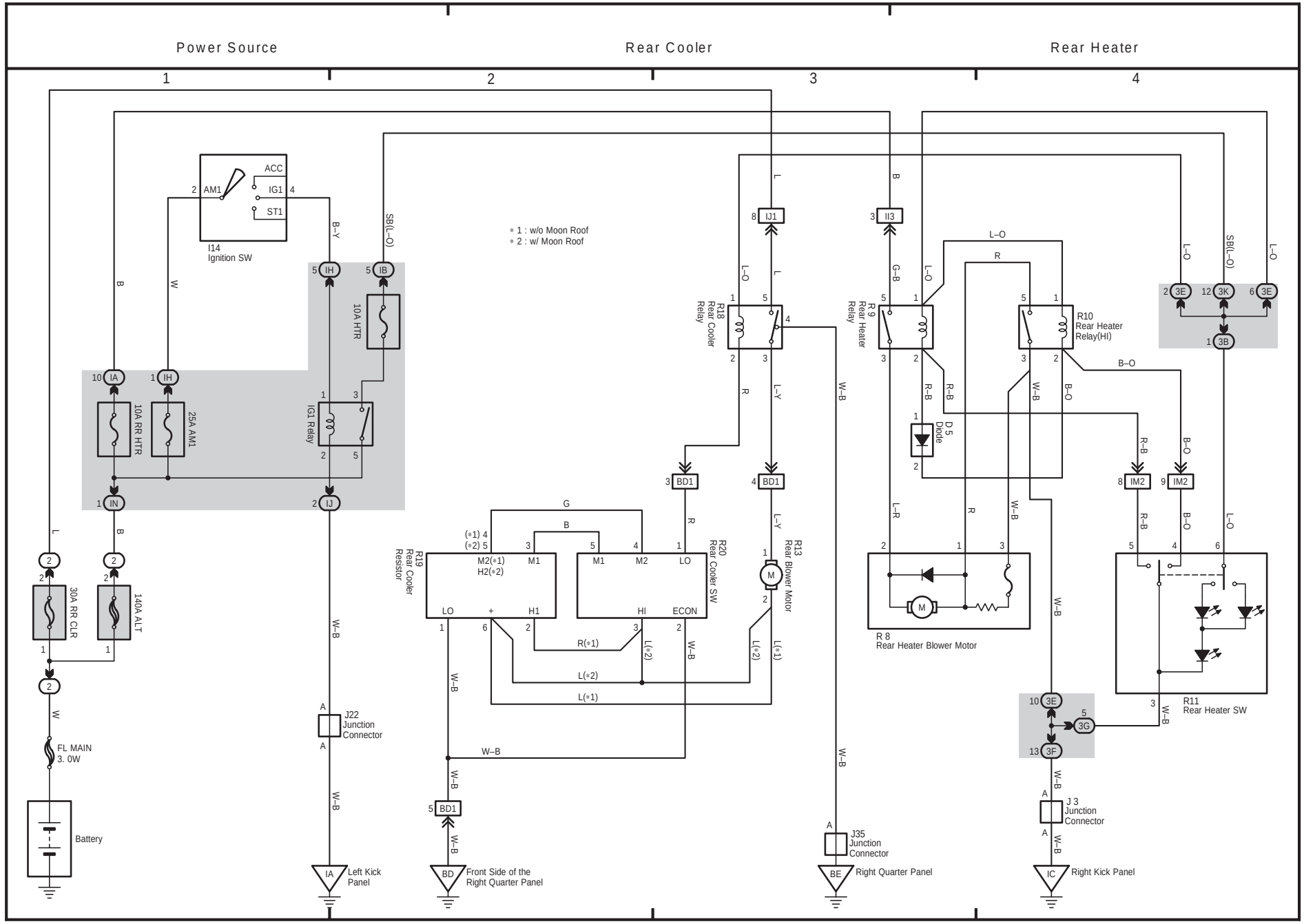
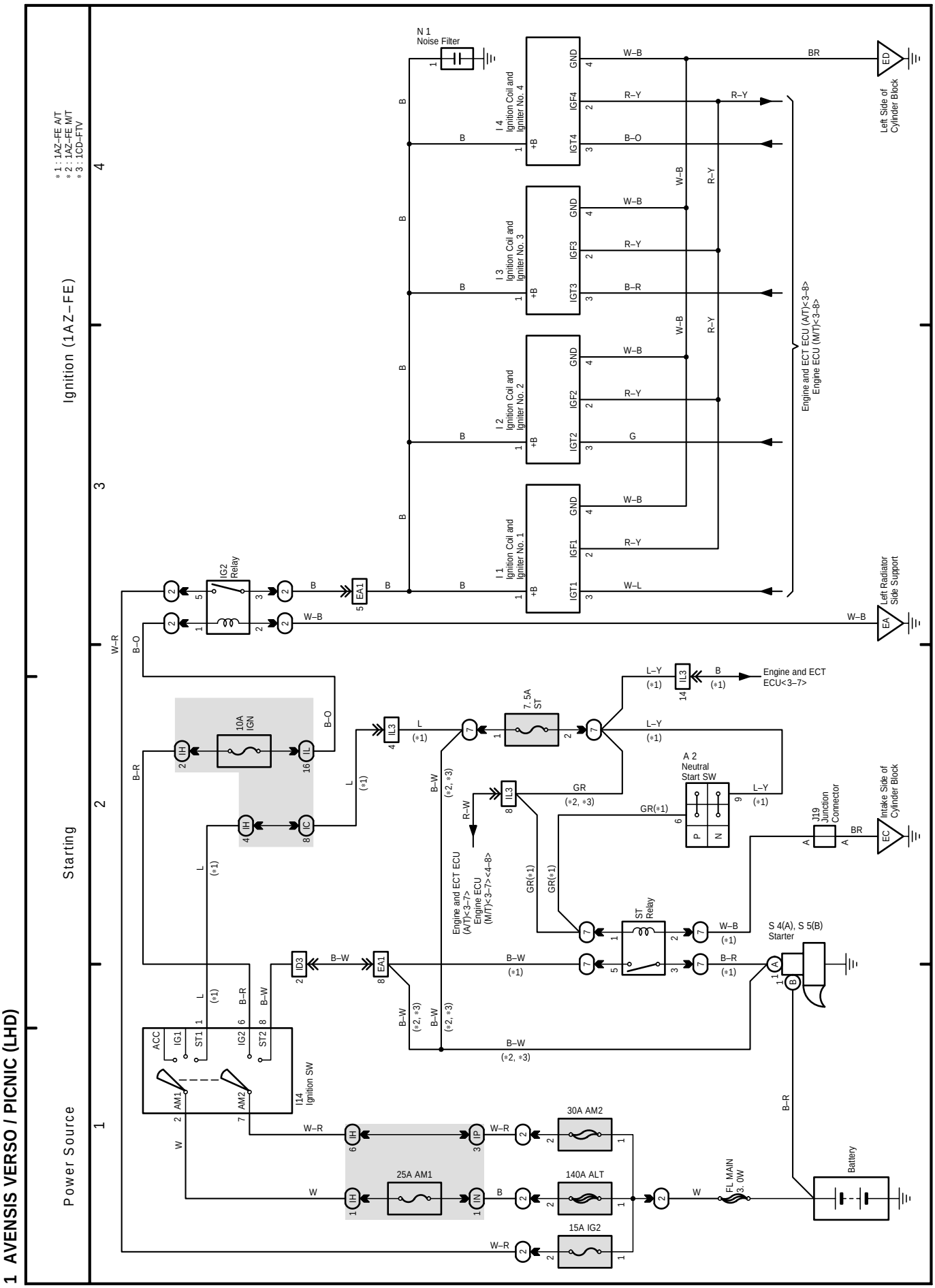
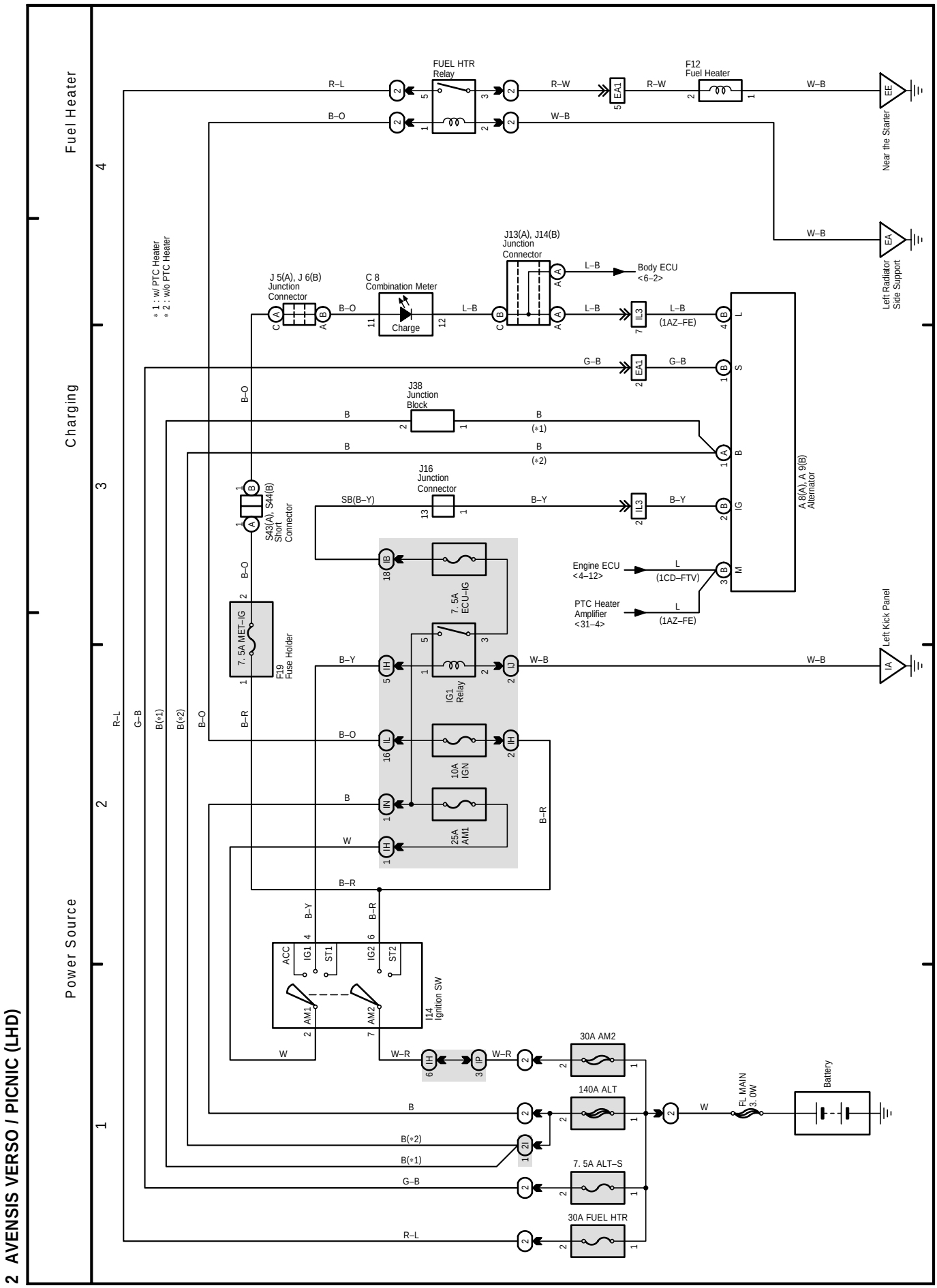


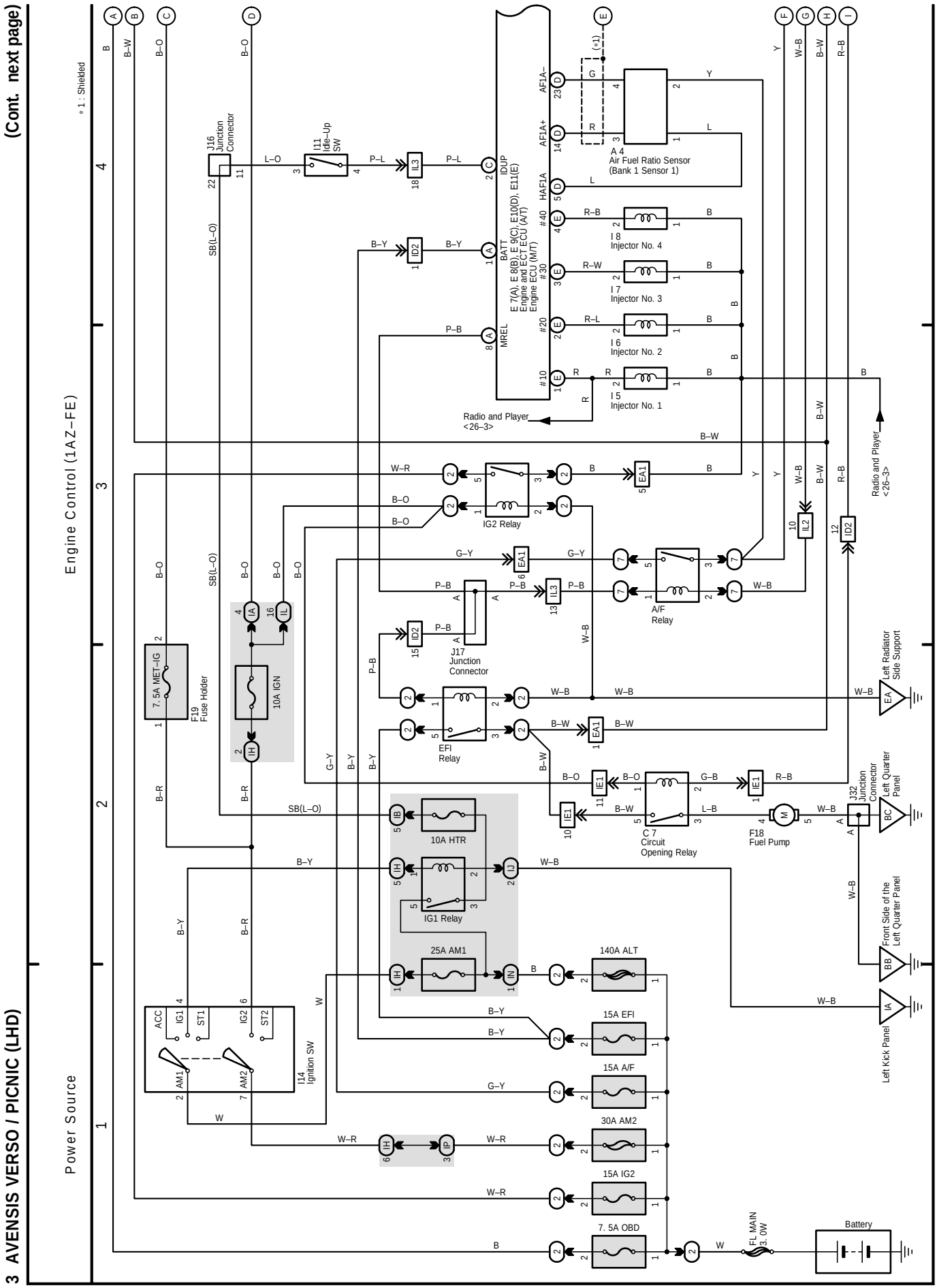


30 AVENSIS VERSO / PICNIC (RHD)




1 AVENSIS VERSO / PICNIC (LHD)
Power Source
Starting
Ignition (1AZ–FE)
1
2
3
4
*1 : 1AZ–FE A/T
*2 : 1AZ–FE M/T
*3 : 1CD–FTV
N 1
Noise Filter
I 4
Ignition Coil and Igniter No. 4
I 3
Ignition Coil and Igniter No. 3
I 2
Ignition Coil and Igniter No. 2
I 1
Ignition Coil and Igniter No. 1
GND
IGF4
IGT4
IGF3
IGT3
IGF2
IGT2
IGF1
IGT1
+B
W–B
BR
R–Y
B–O
B–R
G
W–L
ED
Left Side of Cylinder Block
Engine and ECT ECU (A/T)<3–8>
Engine ECU (M/T)<3–8>
IG2 Relay
EA1
EA
Left Radiator Side Support
10A IGN
7.5A ST
IL3
Engine and ECT ECU<3–7>
A 2
Neutral Start SW
J19
Junction Connector
EC
Intake Side of Cylinder Block
Engine and ECT ECU (A/T)<3–7>
Engine ECU (M/T)<3–7><4–8>
ST Relay
S 4(A), S 5(B)
Starter
ID3
I14
Ignition SW
ACC
IG1
ST1
IG2
ST2
AM1
AM2
30A AM2
25A AM1
140A ALT
15A IG2
FL MAIN
3. 0W
Battery


2 AVENSIS VERSO / PICNIC (LHD)
Power Source
Charging
Fuel Heater
1
2
3
4
FUEL HTR Relay
F12 Fuel Heater
Near the Starter
Left Radiator Side Support
J13(A), J14(B) Junction Connector
J 5(A), J 6(B) Junction Connector
C 8 Combination Meter
Charge
Body ECU <6–2>
(1AZ–FE)
J38 Junction Block
J16 Junction Connector
S43(A), S44(B) Short Connector
A 9(A), A 9(B) Alternator
Engine ECU <4–12>
(1CD–FTV)
PTC Heater Amplifier <31–4>
Left Kick Panel
7. 5A MET–IG
F19 Fuse Holder
7. 5A ECU–IG
IG1 Relay
10A IGN
25A AM1
J14 Ignition SW
ACC
IG1
ST1
IG2
ST2
AM1
AM2
30A AM2
140A ALT
7. 5A ALT–S
30A FUEL HTR
FL MAIN 3. 0W
Battery
* 1 : w/ PTC Heater
* 2 : w/o PTC Heater


(Cont. next page)
3 AVENSIS VERSO / PICNIC (LHD)
Power Source
Engine Control (1AZ–FE)
* 1 : Shielded
J16 Junction Connector
I11 Idle–Up SW
IL3
IDUP
BATT
E 7(A), E 8(B), E 9(C), E10(D), E11(E) Engine and ECT ECU (A/T) Engine ECU (M/T)
MREL
AF1A–
AF1A+
HAF1A
#40
#30
#20
#10
ID2
A 4 Air Fuel Ratio Sensor (Bank 1 Sensor 1)
I 8 Injector No. 4
I 7 Injector No. 3
I 6 Injector No. 2
I 5 Injector No. 1
Radio and Player <26–3>
IG2 Relay
EA1
IL2
A/F Relay
J17 Junction Connector
EFI Relay
IE1
C 7 Circuit Opening Relay
F18 Fuel Pump
J32 Junction Connector
Left Quarter Panel
Left Radiator Side Support
Front Side of the Left Quarter Panel
Left Kick Panel
F19 Fuse Holder
7. 5A MET–IG
10A IGN
10A HTR
IG1 Relay
25A AM1
140A ALT
15A EFI
15A A/F
30A AM2
15A IG2
7. 5A OBD
I14 Ignition SW
ACC
IG1
ST1
IG2
ST2
AM1
AM2
FL MAIN 3. 0W
Battery

3 AVENSIS VERSO / PICNIC (LHD) (Cont' d)

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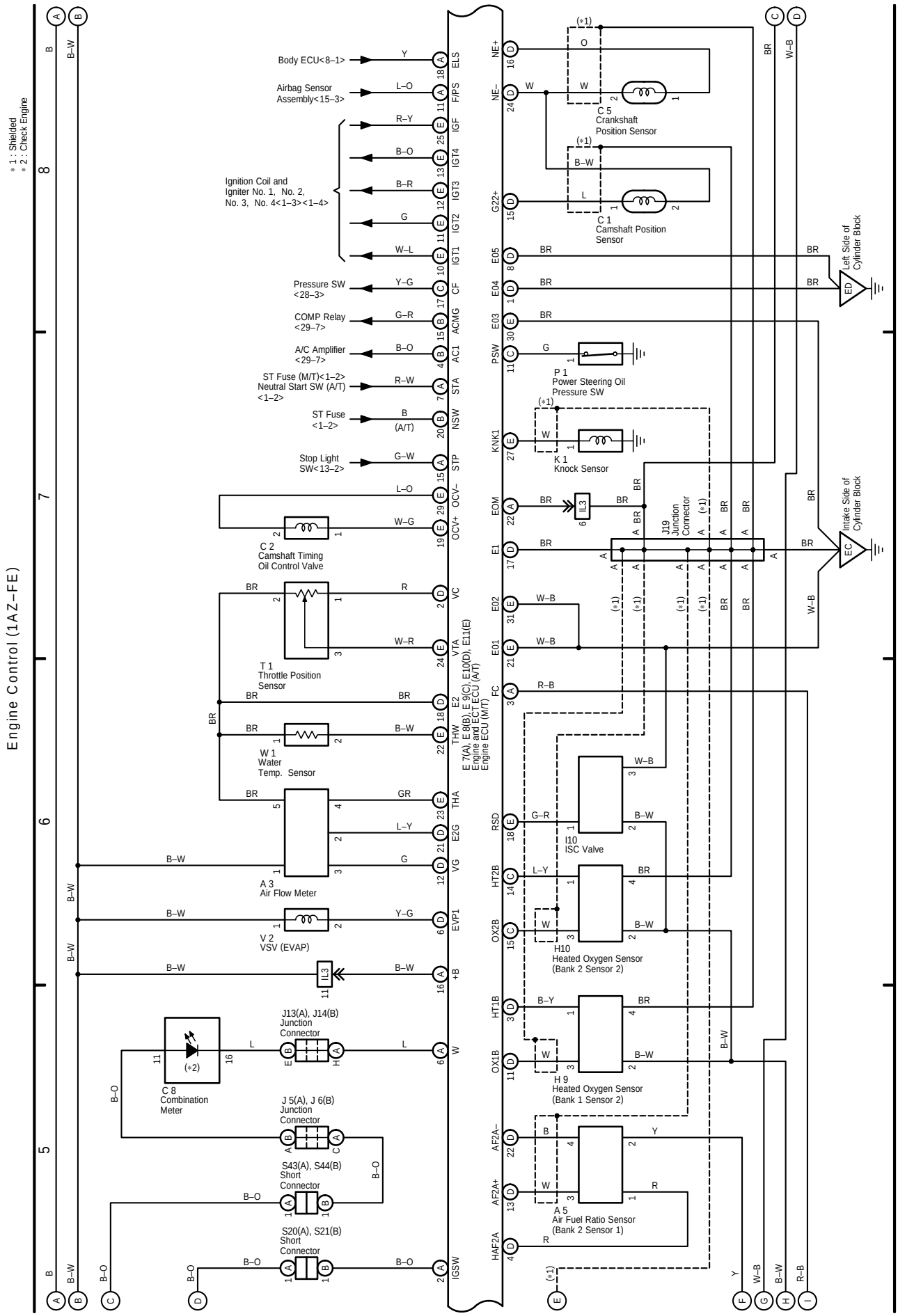
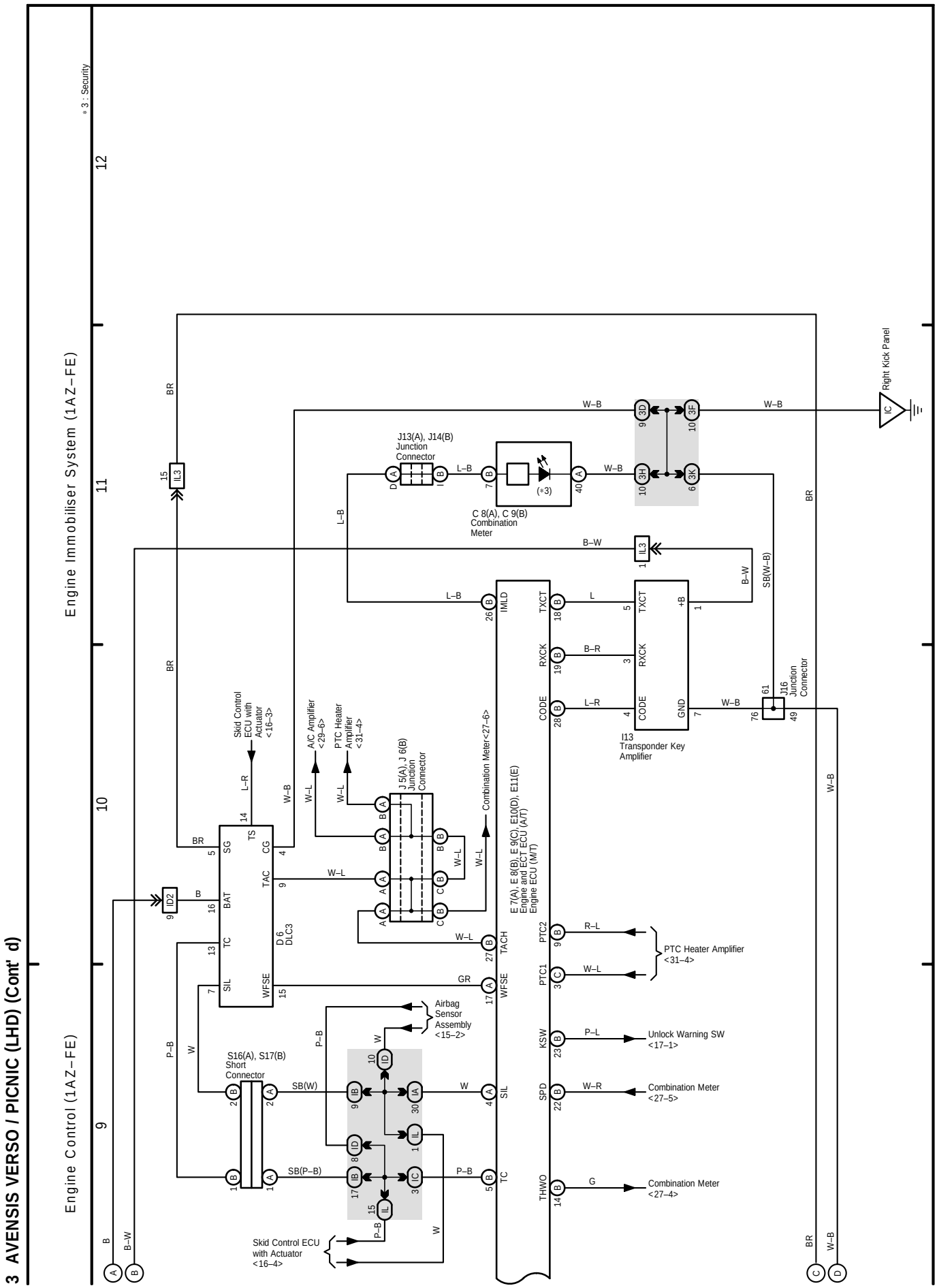
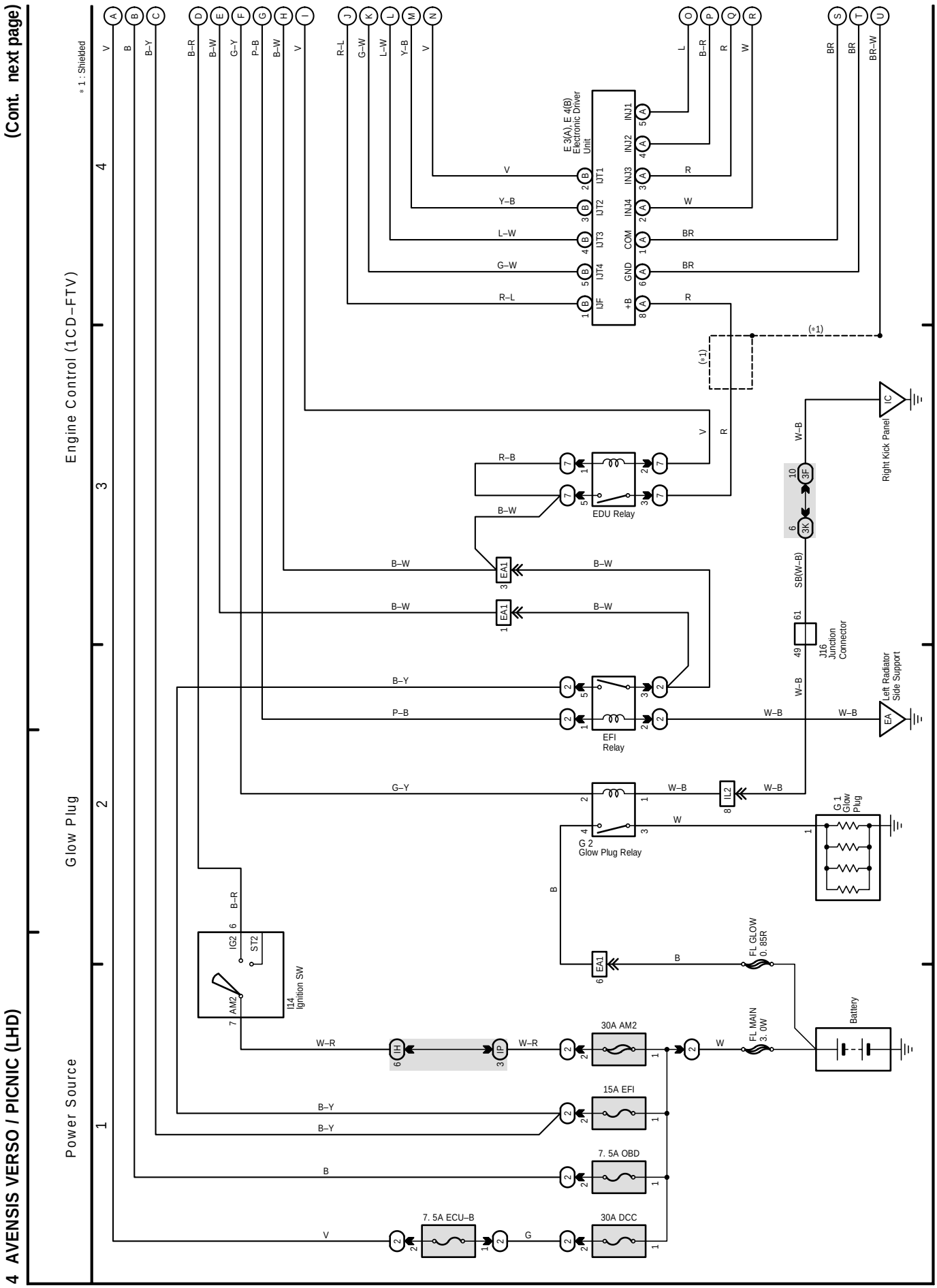



3 AVENSIS VERSO / PICNIC (LHD) (Cont' d)
Engine Control (1AZ–FE)
Engine Immobiliser System (1AZ–FE)
*3 : Security
Right Kick Panel
J13(A), J14(B) Junction Connector
C 8(A), C 9(B) Combination Meter
(*3)
I13 Transponder Key Amplifier
J16 Junction Connector
Skid Control ECU with Actuator <16–3>
A/C Amplifier <29–6>
PTC Heater Amplifier <31–4>
J 5(A), J 6(B) Junction Connector
Combination Meter<27–6>
E 7(A), E 8(B), E 9(C), E10(D), E11(E) Engine and ECT ECU (A/T) Engine ECU (M/T)
D 6 DLC3
Airbag Sensor Assembly <15–2>
S16(A), S17(B) Short Connector
Skid Control ECU with Actuator <16–4>
PTC Heater Amplifier <31–4>
Unlock Warning SW <17–1>
Combination Meter <27–5>
Combination Meter <27–4>
IMLD
TXCT
RXCK
CODE
TACH
WFSE
PTC2
PTC1
KSW
SPD
THWO
TC
SIL
TS
SG
CG
TAC
BAT
GND
+B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4 AVENSIS VERSO / PICNIC (LHD)
Power Source
Glow Plug
Engine Control (1CD–FTV)
* 1 : Shielded
E 3(A), E 4(B) Electronic Driver Unit
INJ1
INJ2
INJ3
INJ4
COM
GND
+B
IJT1
IJT2
IJT3
IJT4
IJF
EDU Relay
EFI Relay
G 2 Glow Plug Relay
G 1 Glow Plug
I14 Ignition SW
IG2
ST2
AM2
30A AM2
15A EFI
7. 5A OBD
7. 5A ECU–B
30A DCC
FL GLOW 0. 85R
FL MAIN 3. 0W
Battery
Right Kick Panel
Left Radiator Side Support
J16 Junction Connector

4 AVENSIS VERSO / PICNIC (LHD) (Cont' d)

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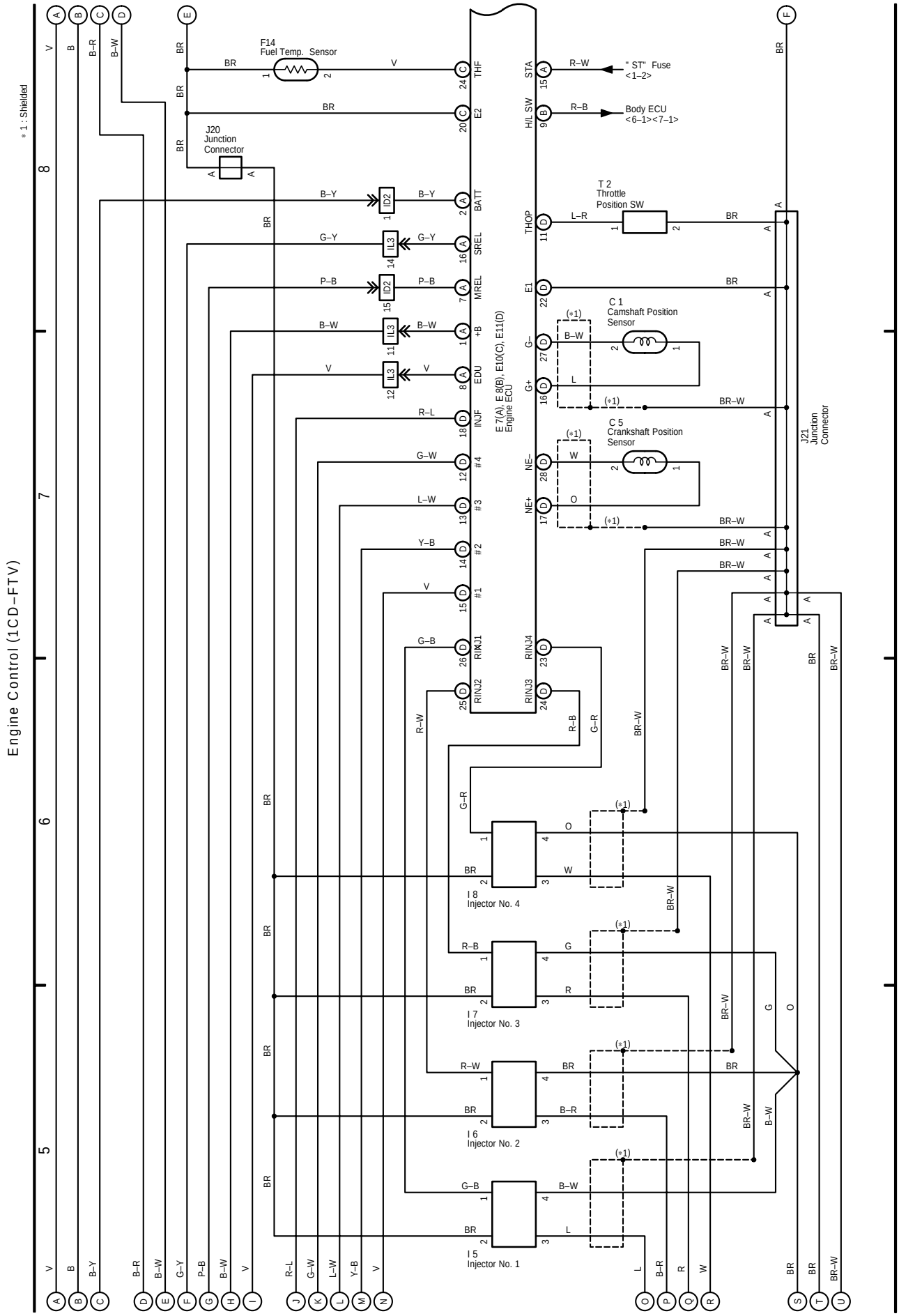

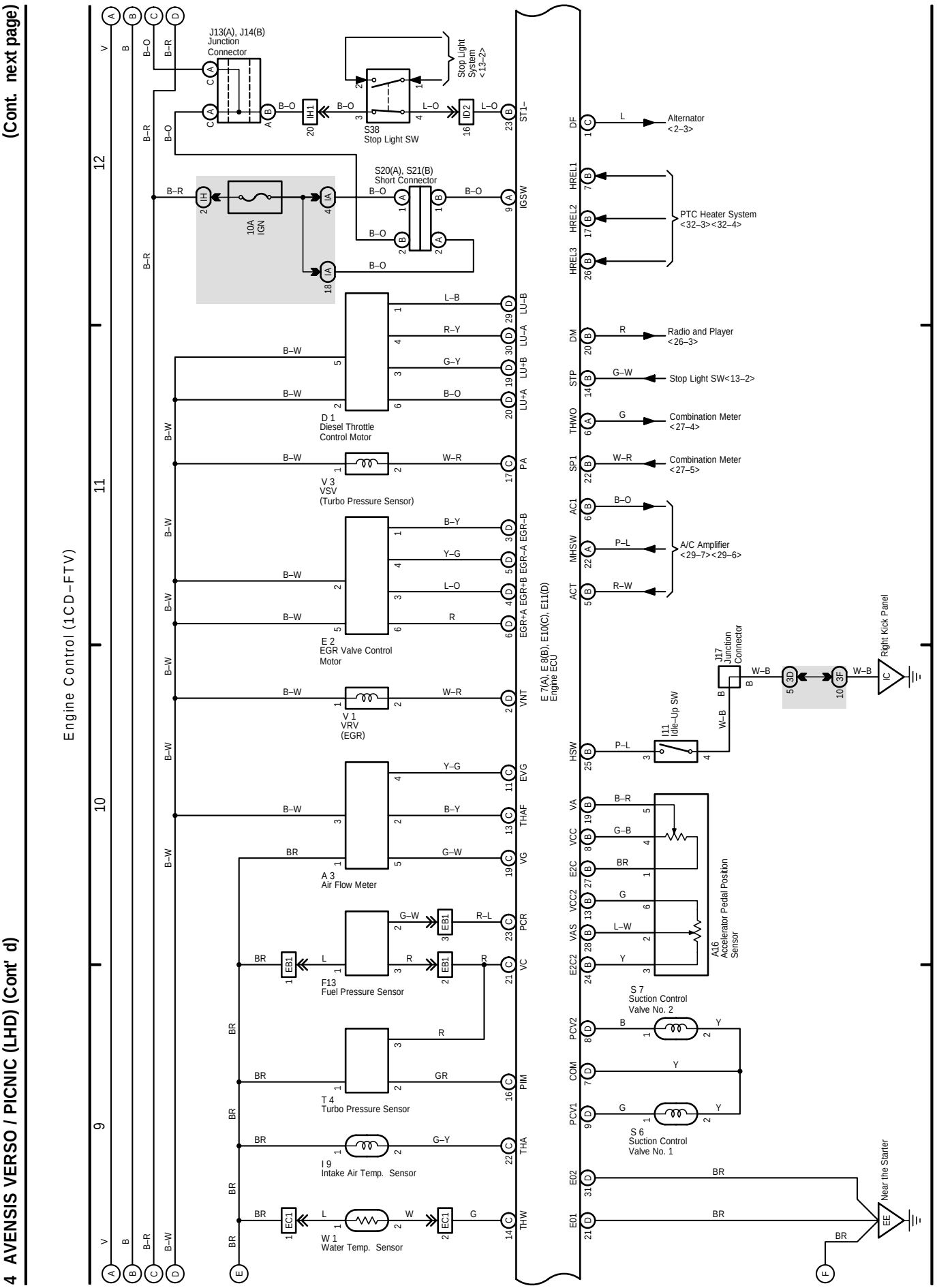
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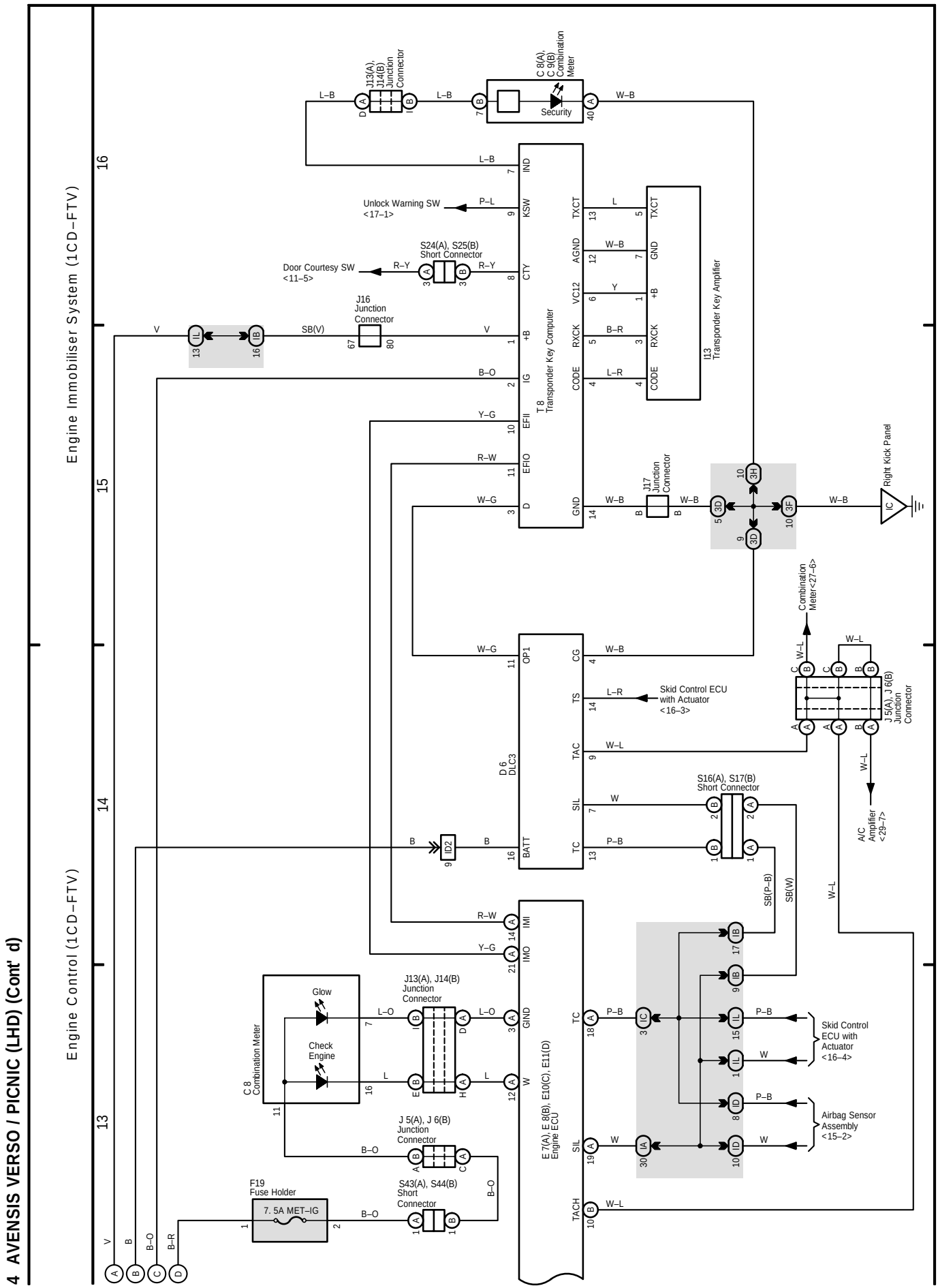
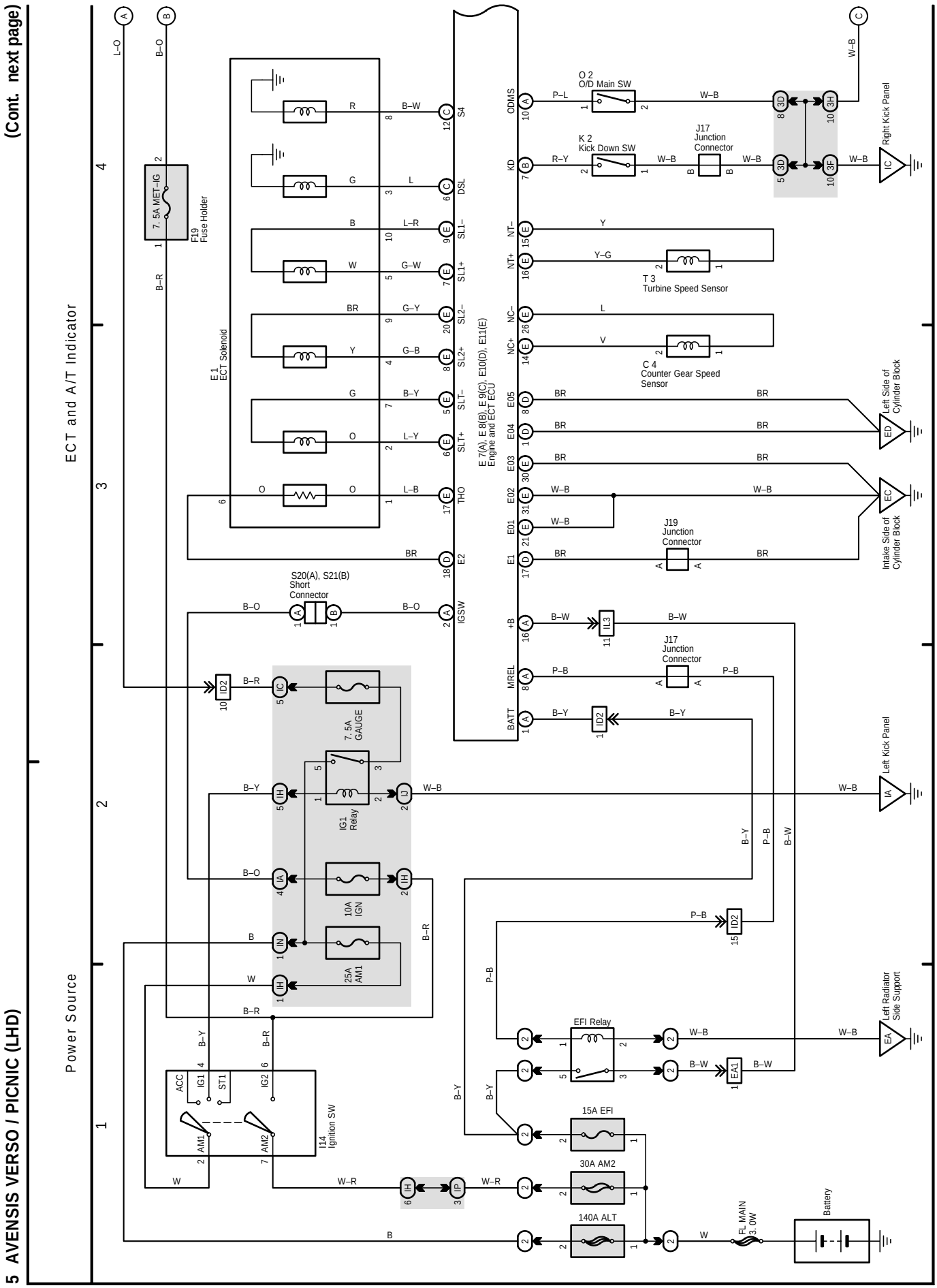
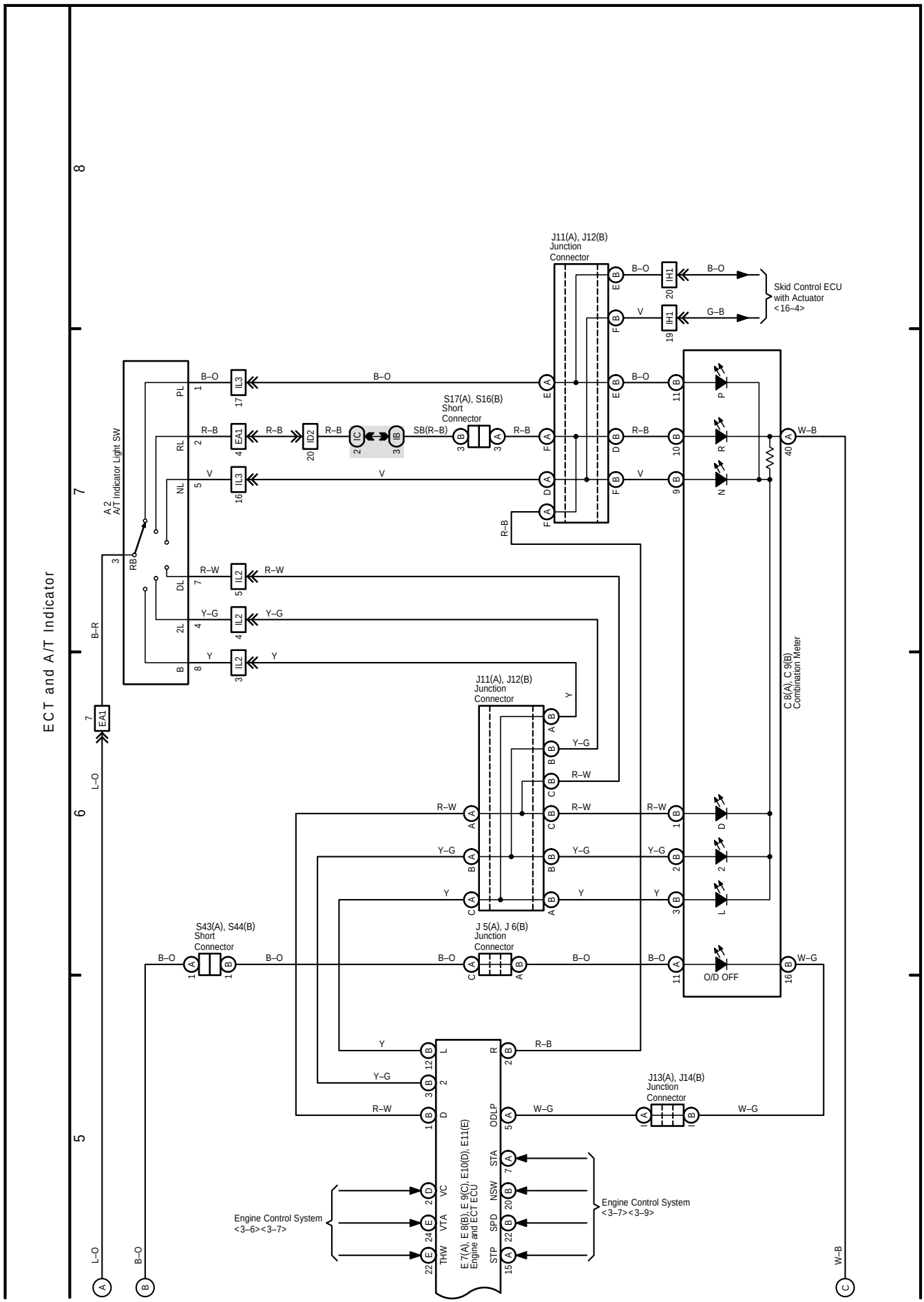
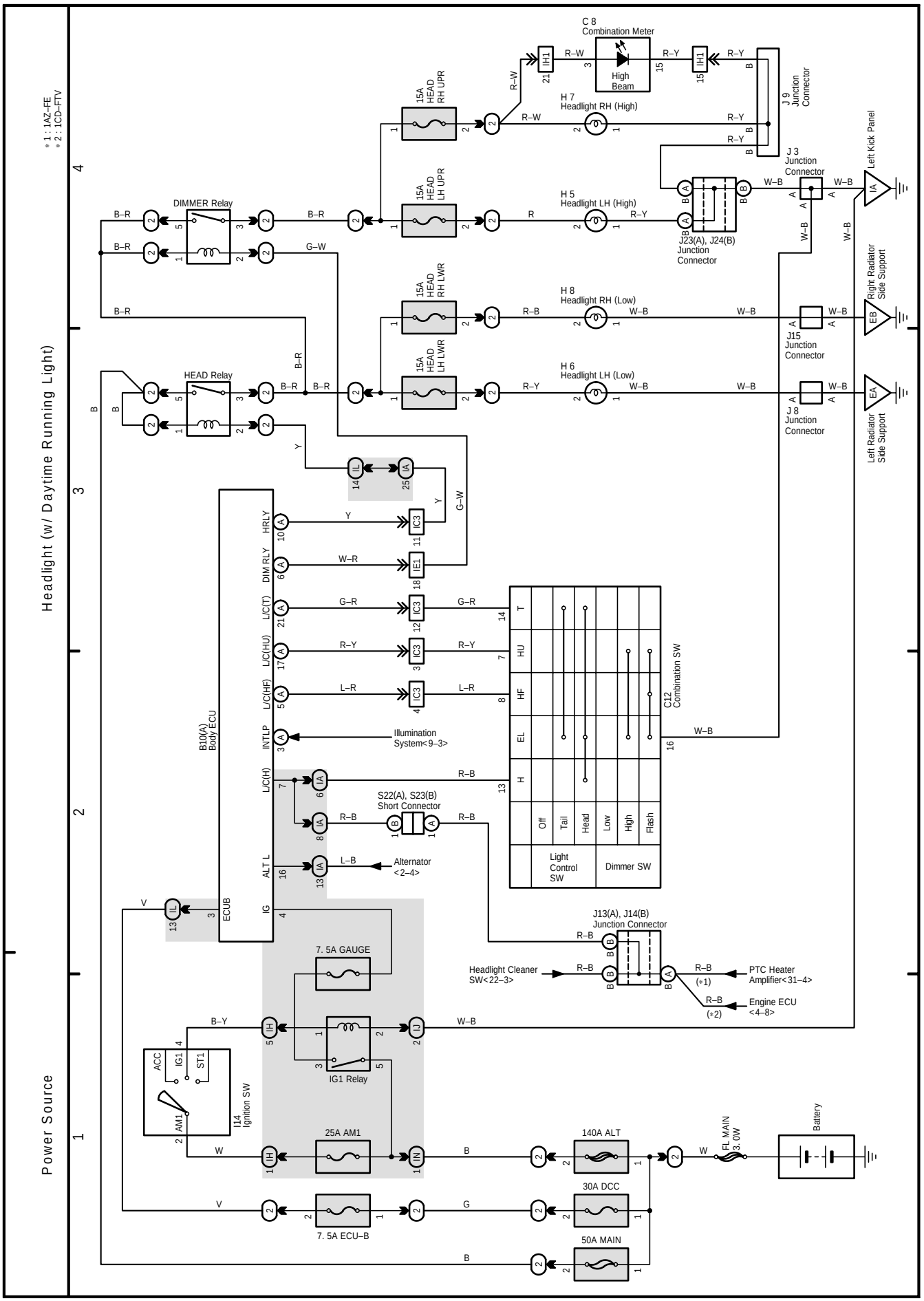
4 AVENSIS VERSO / PICNIC (LHD) (Cont' d)
Engine Control (1CD–FTV)
J13(A), J14(B) Junction Connector
Stop Light System <13–2>
S38 Stop Light SW
S20(A), S21(B) Short Connector
10A IGN
D 1 Diesel Throttle Control Motor
V 3 VSV (Turbo Pressure Sensor)
E 2 EGR Valve Control Motor
V 1 VRV (EGR)
A 3 Air Flow Meter
F13 Fuel Pressure Sensor
T 4 Turbo Pressure Sensor
I 9 Intake Air Temp. Sensor
W 1 Water Temp. Sensor
E 7(A), E 8(B), E10(C), E11(D) Engine ECU
Alternator <2–3>
PTC Heater System <32–3><32–4>
Radio and Player <26–3>
Stop Light SW<13–2>
Combination Meter <27–4>
Combination Meter <27–5>
A/C Amplifier <29–7><29–6>
I11 Idle–Up SW
J17 Junction Connector
Right Kick Panel
A16 Accelerator Pedal Position Sensor
S 7 Suction Control Valve No. 2
S 6 Suction Control Valve No. 1
Near the Starter

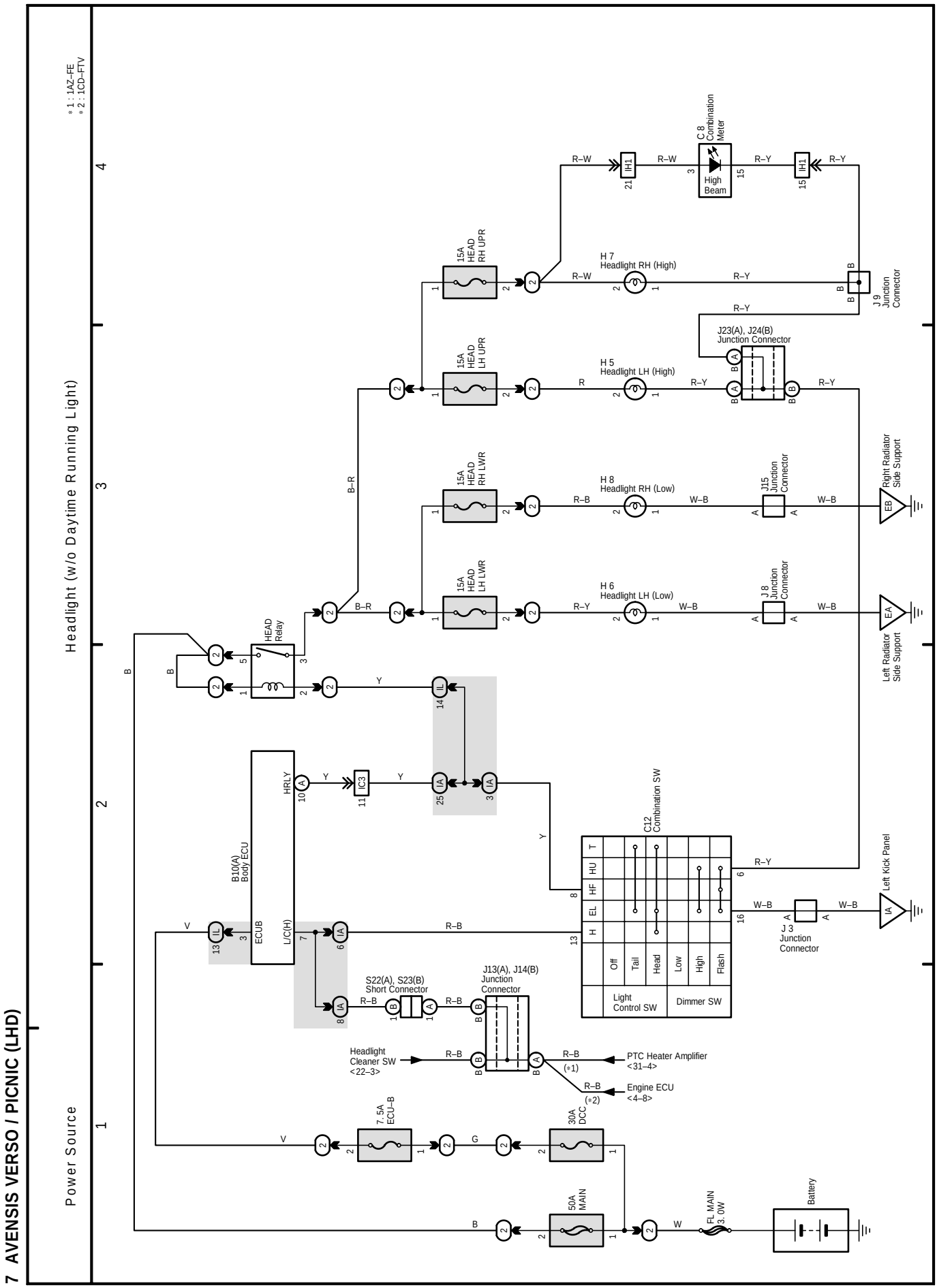

4 AVENSIS VERSO / PICNIC (LHD) (Cont' d)
Engine Control (1CD–FTV)
Engine Immobiliser System (1CD–FTV)
13
14
15
16
J13(A), J14(B) Junction Connector
C 8(A), C 9(B) Combination Meter
Security
L–B
W–B
Unlock Warning SW <17–1>
P–L
S24(A), S25(B) Short Connector
Door Courtesy SW <11–5>
R–Y
J16 Junction Connector
SB(V)
T 8 Transponder Key Computer
IND
KSW
CTY
+B
IG
EFII
EFIO
D
CODE
RXCK
VC12
AGND
TXCT
I13 Transponder Key Amplifier
GND
J17 Junction Connector
Right Kick Panel
Combination Meter<27–6>
W–L
J 5(A), J 6(B) Junction Connector
A/C Amplifier <29–7>
D 6 DLC3
OP1
CG
TS
TAC
SIL
BATT
TC
Skid Control ECU with Actuator <16–3>
S16(A), S17(B) Short Connector
SB(P–B)
SB(W)
ID2
IMI
IMO
GND
W
E 7(A), E 8(B), E10(C), E11(D) Engine ECU
TACH
Glow
Check Engine
C 8 Combination Meter
L–O
L
J 5(A), J 6(B) Junction Connector
B–O
F19 Fuse Holder
7. 5A MET–IG
S43(A), S44(B) Short Connector
B–R
B
V
Skid Control ECU with Actuator <16–4>
Airbag Sensor Assembly <15–2>
P–B

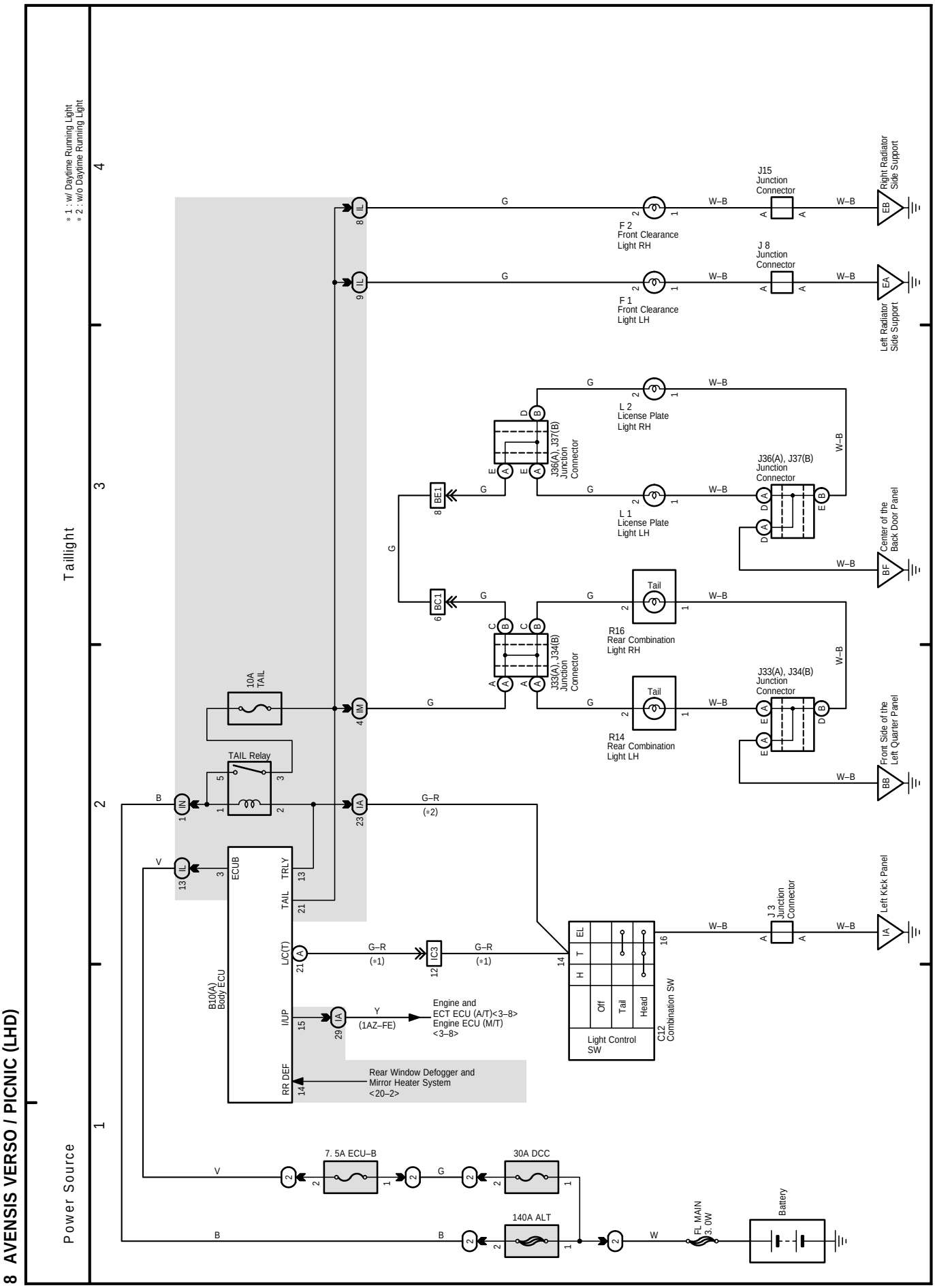

(Cont. next page)
5 AVENSIS VERSO / PICNIC (LHD)
Power Source
ECT and A/T Indicator
1
2
3
4
E19
Fuse Holder
7. 5A MET–IG
E1
ECT Solenoid
E 7(A), E 8(B), E 9(C), E10(D), E11(E)
Engine and ECT ECU
O 2
O/D Main SW
K 2
Kick Down SW
J17
Junction
Connector
Right Kick Panel
T 3
Turbine Speed Sensor
C 4
Counter Gear Speed
Sensor
Left Side of
Cylinder Block
Intake Side of
Cylinder Block
J19
Junction
Connector
S20(A), S21(B)
Short
Connector
7. 5A
GAUGE
IG1
Relay
10A
IGN
25A
AM1
Left Kick Panel
EFI Relay
Left Radiator
Side Support
15A EFI
30A AM2
140A ALT
I14
Ignition SW
ACC
IG1
ST1
IG2
AM1
AM2
FL MAIN
3. 0W
Battery

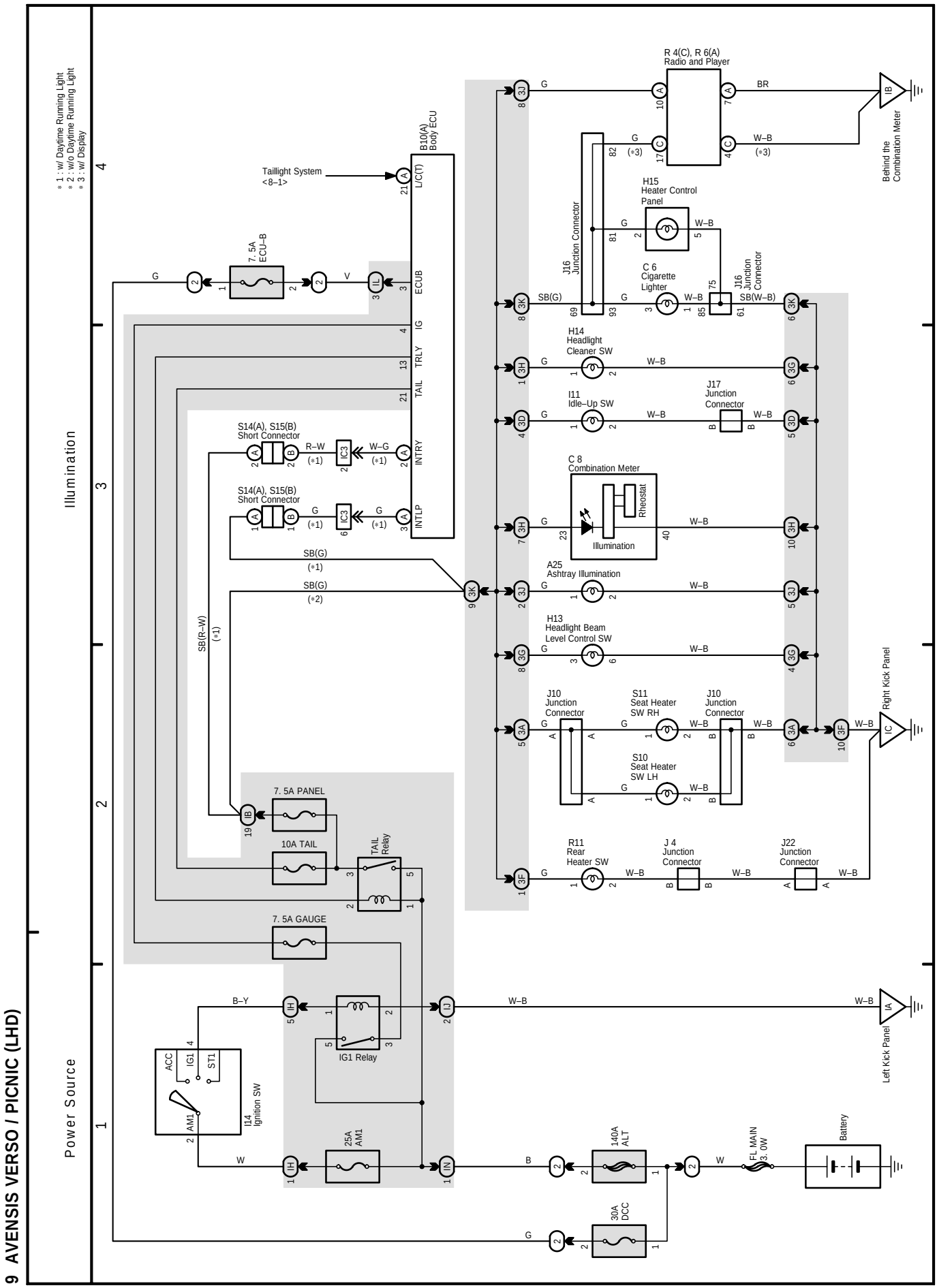
5 AVENSIS VERSO / PICNIC (LHD) (Cont' d)

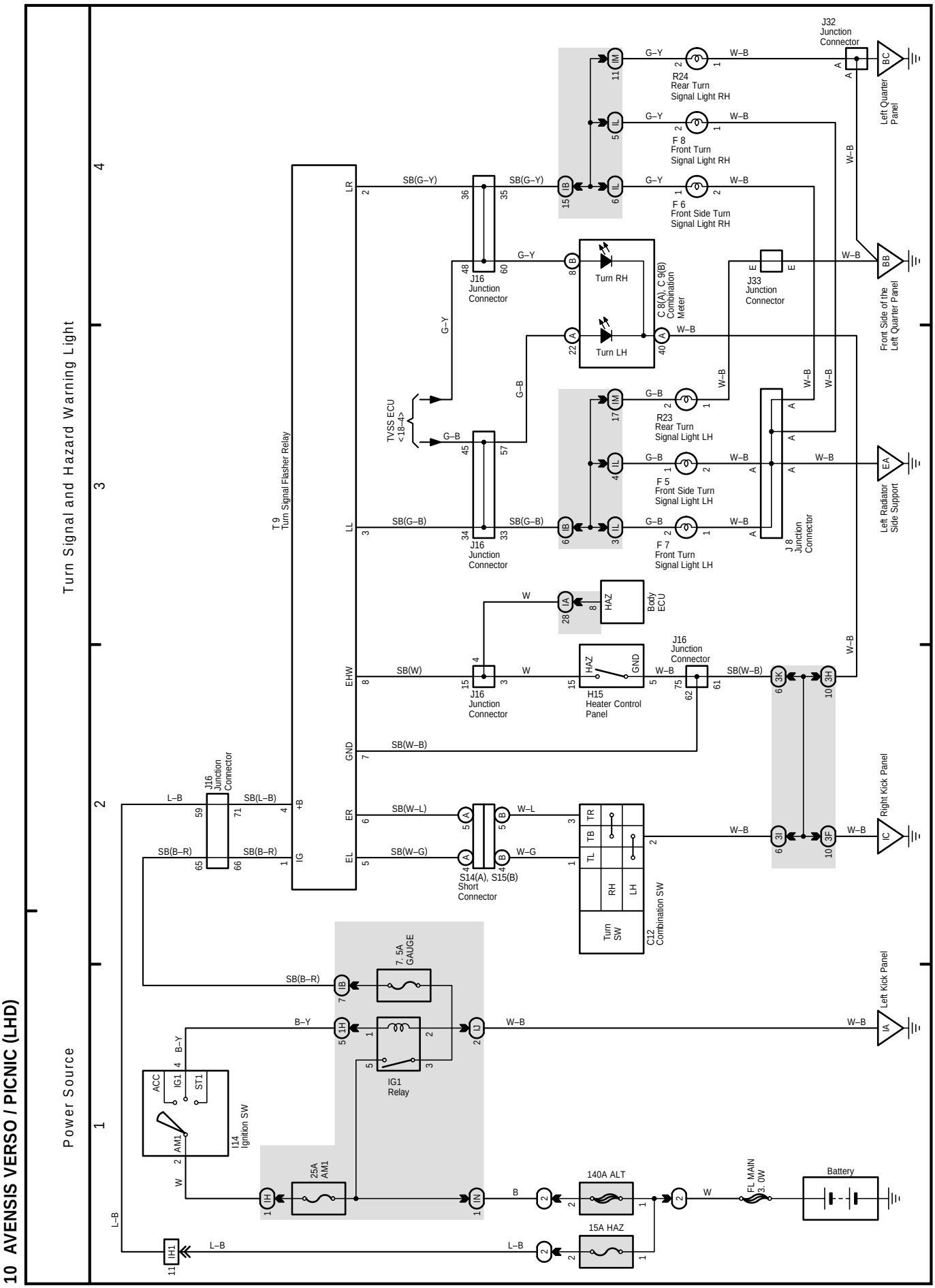


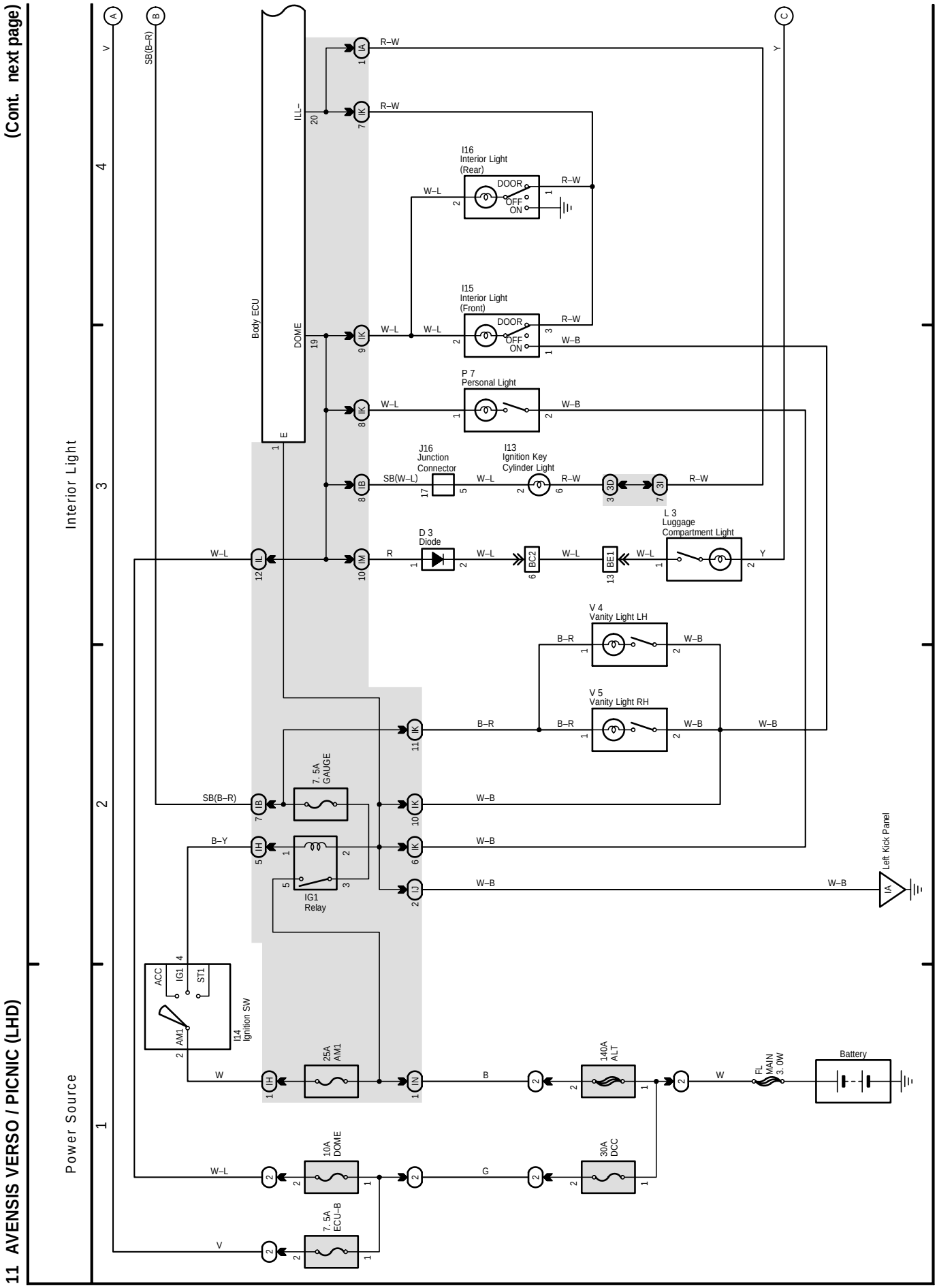

6 AVENSIS VERSO / PICNIC (LHD)
Power Source
Headlight (w/ Daytime Running Light)
* 1 : 1AZ–FE
* 2 : 1CD–FTV
C 8
Combination Meter
High Beam
H 7
Headlight RH (High)
H 5
Headlight LH (High)
H 8
Headlight RH (Low)
H 6
Headlight LH (Low)
15A HEAD RH UPR
15A HEAD LH UPR
15A HEAD RH LWR
15A HEAD LH LWR
DIMMER Relay
HEAD Relay
J 9 Junction Connector
J 3 Junction Connector
J23(A), J24(B) Junction Connector
J15 Junction Connector
J 8 Junction Connector
Left Kick Panel
Right Radiator Side Support
Left Radiator Side Support
B10(A) Body ECU
ECUB
HRLY
DIM RLY
L/C(T)
L/C(HU)
L/C(HF)
INTLP
L/C(H)
ALT L
IG
Illumination System<9–3>
Alternator <2–4>
C12 Combination SW
Light Control SW
Dimmer SW
Off
Tail
Head
Low
High
Flash
S22(A), S23(B) Short Connector
J13(A), J14(B) Junction Connector
Headlight Cleaner SW<22–3>
PTC Heater Amplifier<31–4>
Engine ECU <4–8>
7. 5A GAUGE
IG1 Relay
I14 Ignition SW
ACC
IG1
ST1
AM1
25A AM1
140A ALT
30A DCC
7. 5A ECU–B
50A MAIN
FL MAIN
Battery


7 AVENSIS VERSO / PICNIC (LHD)
Power Source
Headlight (w/o Daytime Running Light)
1
2
3
4
*1 : 1AZ–FE
*2 : 1CD–FTV
Battery
50A MAIN
7.5A ECU–B
30A DCC
HEAD Relay
15A HEAD RH UPR
15A HEAD LH UPR
15A HEAD RH LWR
15A HEAD LH LWR
H 7 Headlight RH (High)
H 5 Headlight LH (High)
H 8 Headlight RH (Low)
H 6 Headlight LH (Low)
C 8 Combination Meter
High Beam
J 9 Junction Connector
J23(A), J24(B) Junction Connector
J15 Junction Connector
J 8 Junction Connector
J 3 Junction Connector
Right Radiator Side Support
Left Radiator Side Support
Left Kick Panel
B10(A) Body ECU
ECUB
L/C(H)
HRLY
IC3
C12 Combination SW
Light Control SW
Dimmer SW
Off
Tail
Head
Low
High
Flash
S22(A), S23(B) Short Connector
J13(A), J14(B) Junction Connector
Headlight Cleaner SW <22–3>
PTC Heater Amplifier <31–4>
Engine ECU <4–8>
FL MAIN 3.0W


8 AVENSIS VERSO / PICNIC (LHD)
Power Source
Taillight
1
2
3
4
* 1 : w/ Daytime Running Light
* 2 : w/o Daytime Running Light
10A TAIL
TAIL Relay
B10(A) Body ECU
ECUB
TRLY
TAIL
L/C(T)
I/UP
RR DEF
Engine and ECT ECU (A/T)<3–8> Engine ECU (M/T) <3–8>
(1AZ–FE)
Rear Window Defogger and Mirror Heater System <20–2>
Light Control SW
C12 Combination SW
Off
Tail
Head
7. 5A ECU–B
30A DCC
140A ALT
FL MAIN 3. 0W
Battery
F 2 Front Clearance Light RH
F 1 Front Clearance Light LH
L 2 License Plate Light RH
L 1 License Plate Light LH
R16 Rear Combination Light RH
R14 Rear Combination Light LH
Tail
J15 Junction Connector
J 8 Junction Connector
J 3 Junction Connector
J36(A), J37(B) Junction Connector
J33(A), J34(B) Junction Connector
Right Radiator Side Support
Left Radiator Side Support
Center of the Back Door Panel
Front Side of the Left Quarter Panel
Left Kick Panel
G–R (*2)
G–R (*1)
G–R (*1)
W–B
G
B
V
Y


9 AVENSIS VERSO / PICNIC (LHD)
Power Source
Illumination
* 1 : w/ Daytime Running Light
* 2 : w/o Daytime Running Light
* 3 : w/ Display
B10(A) Body ECU
L/C(T)
ECUB
IG
TRLY
TAIL
INTRY
INTLP
Taillight System <8–1>
7. 5A ECU–B
S14(A), S15(B) Short Connector
IC3
R–W (*1)
W–G (*1)
G (*1)
SB(G) (*1)
SB(G) (*2)
SB(R–W) (*1)
7. 5A PANEL
10A TAIL
TAIL Relay
7. 5A GAUGE
B–Y
IG1 Relay
I14 Ignition SW
ACC
IG1
ST1
AM1
25A AM1
140A ALT
30A DCC
FL MAIN 3. 0W
Battery
R 4(C), R 6(A) Radio and Player
Behind the Combination Meter
H15 Heater Control Panel
J16 Junction Connector
C 6 Cigarette Lighter
H14 Headlight Cleaner SW
I11 Idle–Up SW
J17 Junction Connector
C 8 Combination Meter
Rheostat
Illumination
A25 Ashtray Illumination
H13 Headlight Beam Level Control SW
J10 Junction Connector
S11 Seat Heater SW RH
S10 Seat Heater SW LH
Right Kick Panel
Left Kick Panel
R11 Rear Heater SW
J 4 Junction Connector
J22 Junction Connector
W–B
BR
G
SB(G)
SB(W–B)


10 AVENSIS VERSO / PICNIC (LHD)
Power Source
Turn Signal and Hazard Warning Light
1
2
3
4
J32 Junction Connector
Left Quarter Panel
R24 Rear Turn Signal Light RH
F 8 Front Turn Signal Light RH
F 6 Front Side Turn Signal Light RH
J16 Junction Connector
Turn RH
Turn LH
C 8(A), C 9(B) Combination Meter
J33 Junction Connector
Front Side of the Left Quarter Panel
TVSS ECU <18–4>
R23 Rear Turn Signal Light LH
F 5 Front Side Turn Signal Light LH
F 7 Front Turn Signal Light LH
J 8 Junction Connector
Left Radiator Side Support
T 9 Turn Signal Flasher Relay
Body ECU
HAZ
H15 Heater Control Panel
GND
+B
IG
EHW
LR
LL
ER
EL
J16 Junction Connector
S14(A), S15(B) Short Connector
C12 Combination SW
Turn SW
Right Kick Panel
Left Kick Panel
7. 5A GAUGE
IG1 Relay
I14 Ignition SW
ACC
IG1
ST1
AM1
25A AM1
140A ALT
15A HAZ
FL MAIN
Battery
SB(G–Y)
G–Y
W–B
G–B
SB(G–B)
W
SB(W)
SB(W–B)
L–B
SB(L–B)
SB(B–R)
SB(W–L)
W–L
SB(W–G)
W–G
B–Y
B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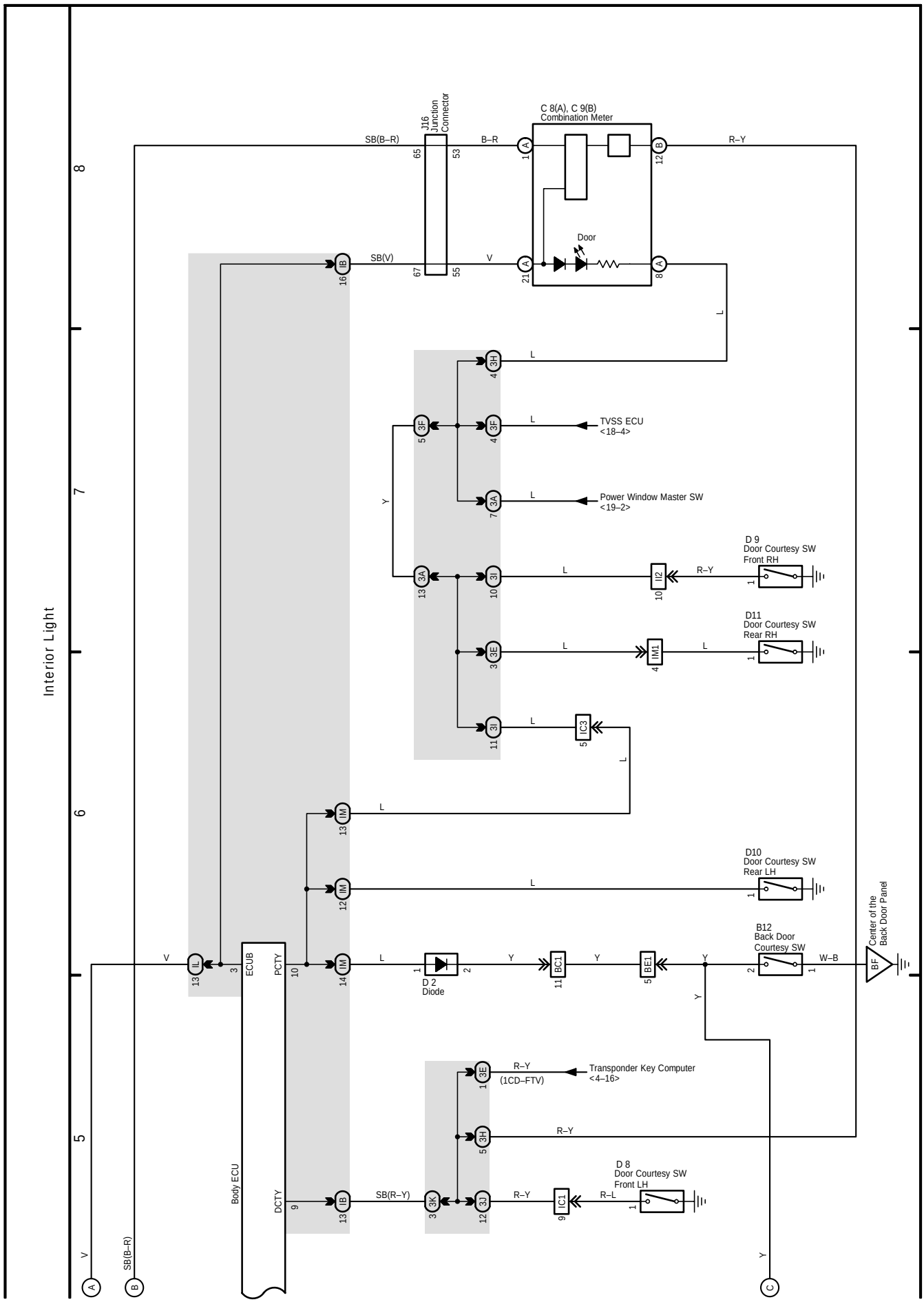
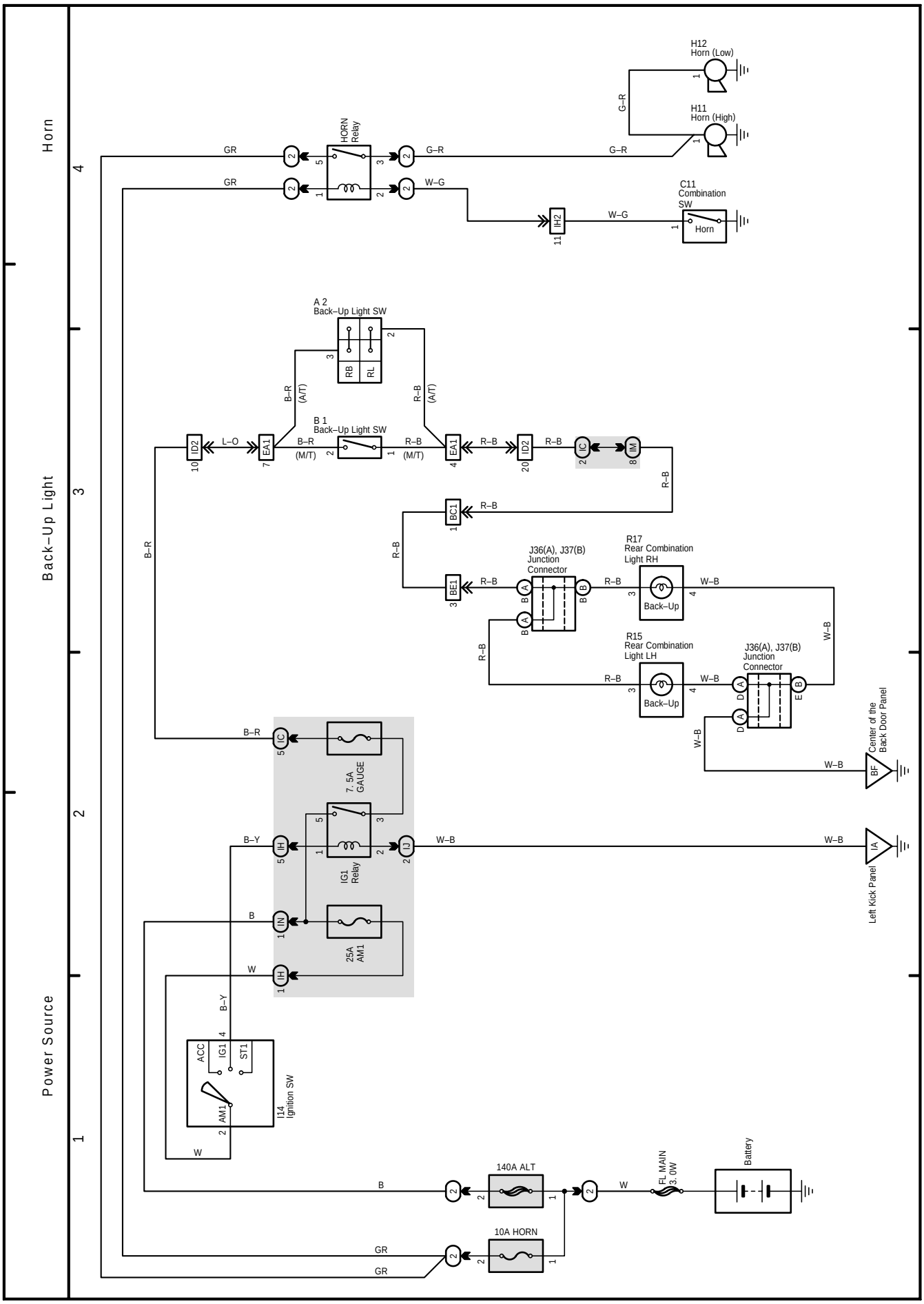
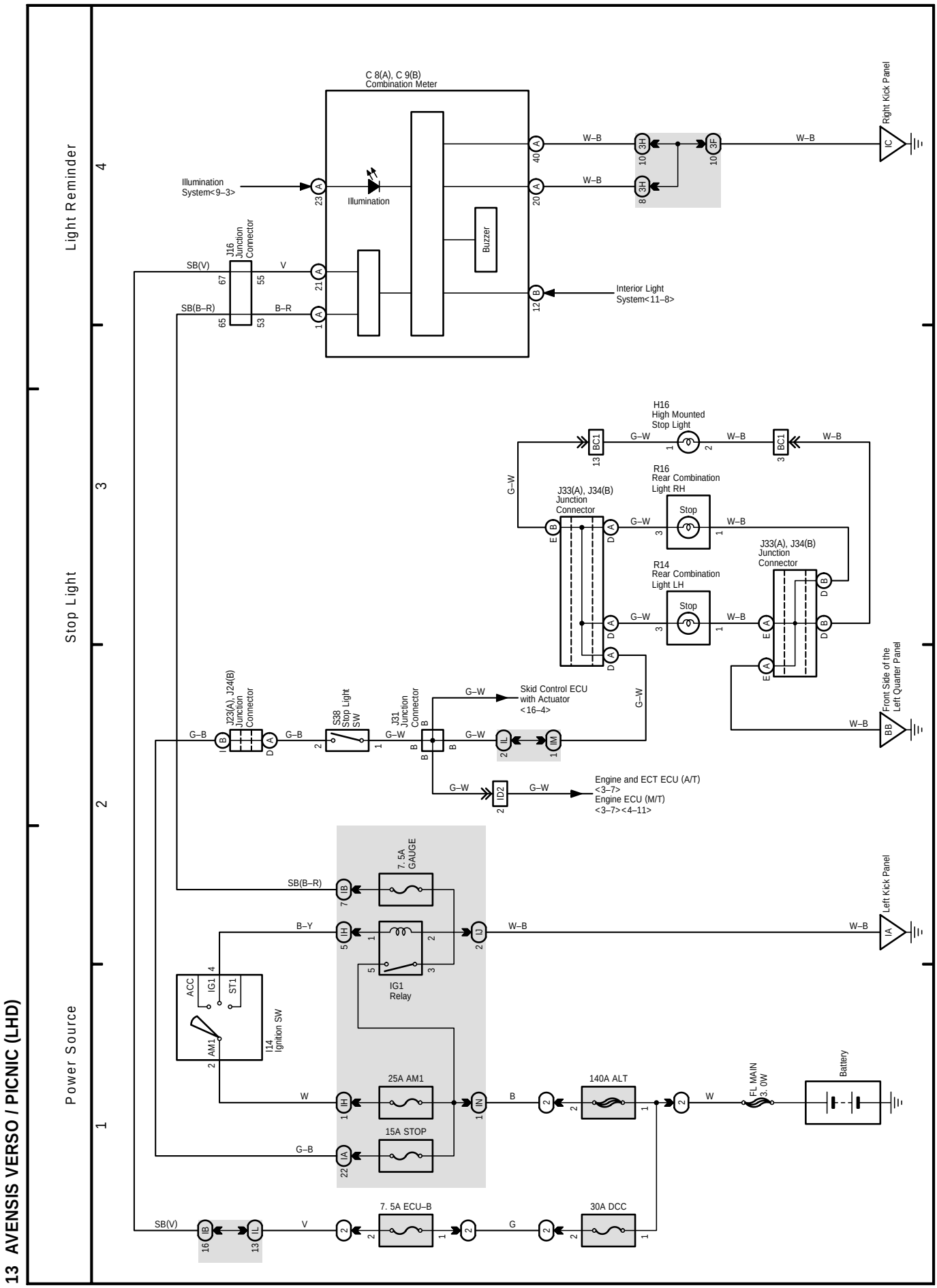
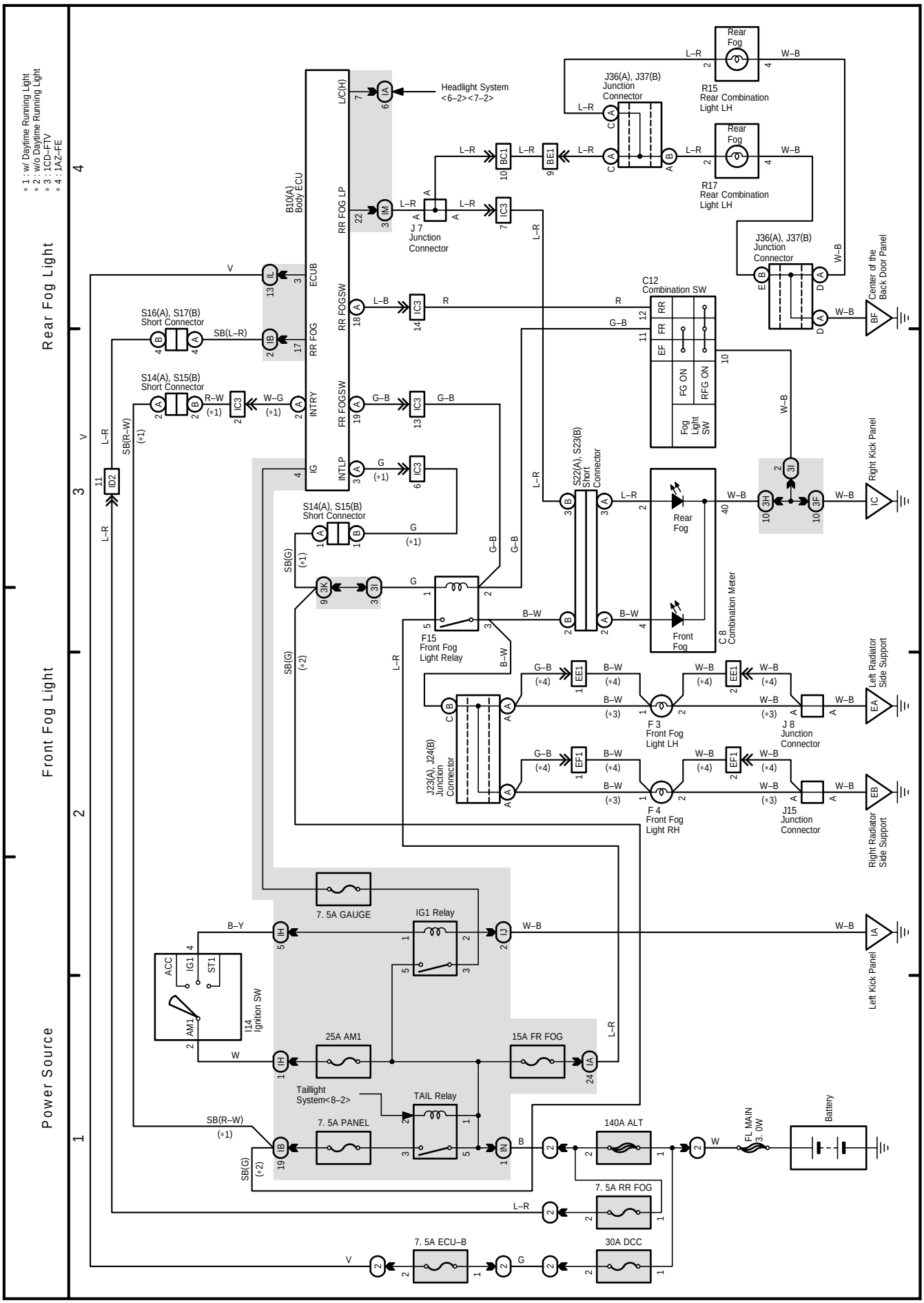
11 AVENSIS VERSO / PICNIC (LHD)
Power Source
Interior Light
Body ECU
ILL–
DOME
E
I16 Interior Light (Rear)
I15 Interior Light (Front)
P 7 Personal Light
J16 Junction Connector
I13 Ignition Key Cylinder Light
L 3 Luggage Compartment Light
D 3 Diode
V 4 Vanity Light LH
V 5 Vanity Light RH
DOOR
OFF
ON
7.5A GAUGE
IG1 Relay
I14 Ignition SW
ACC
IG1
ST1
AM1
25A AM1
140A ALT
FL MAIN 3.0W
Battery
10A DOME
30A DCC
7.5A ECU–B
Left Kick Panel
R–W
W–L
W–B
B–R
B–Y
SB(B–R)
SB(W–L)
R
W
B
G
V
Y

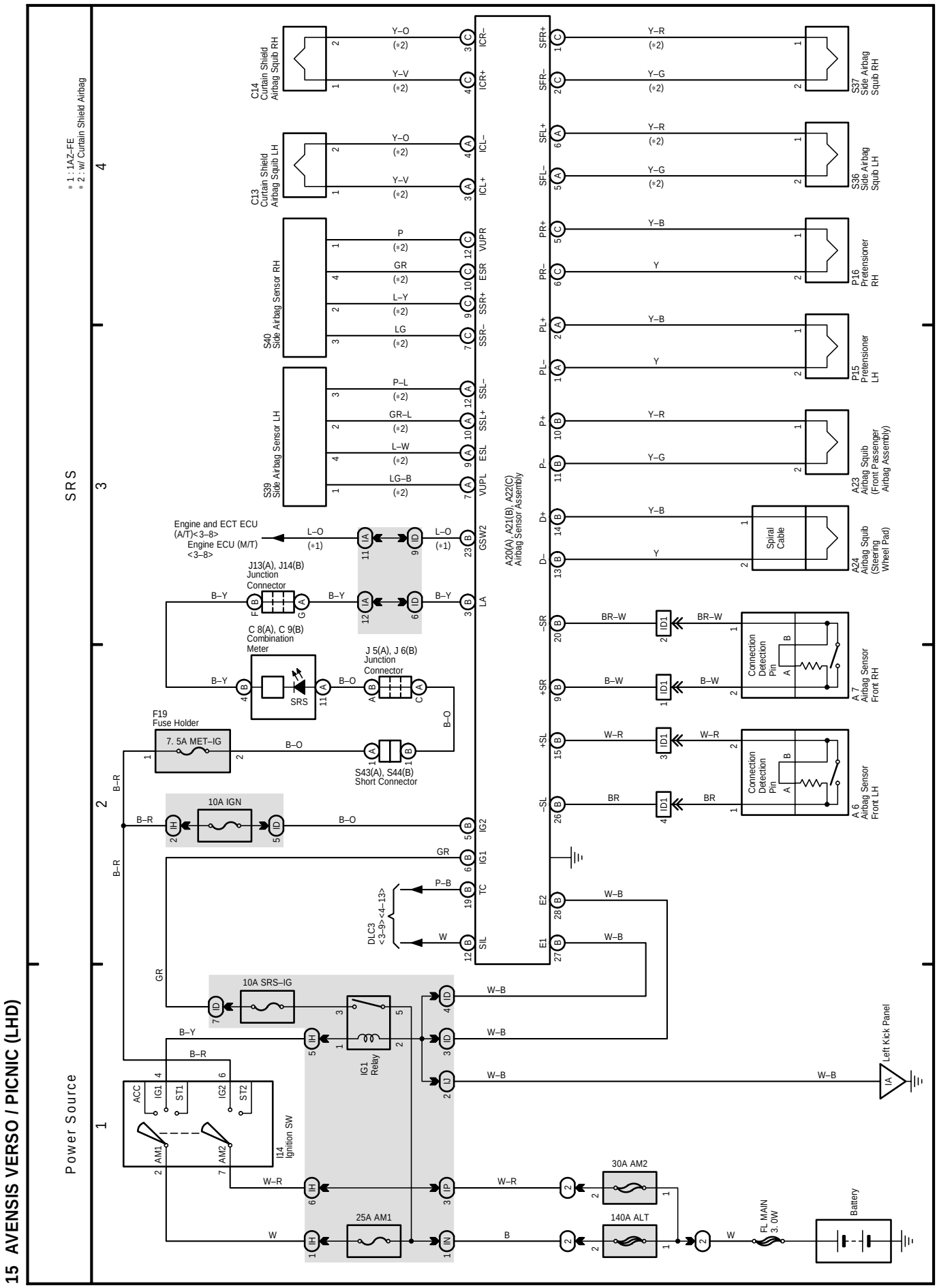

11 AVENSIS VERSO / PICNIC (LHD)
Interior Light
J16 Junction Connector
C 8(A), C 9(B) Combination Meter
Door
TVSS ECU <18–4>
Power Window Master SW <19–2>
D 9 Door Courtesy SW Front RH
D11 Door Courtesy SW Rear RH
D10 Door Courtesy SW Rear LH
B12 Back Door Courtesy SW
Center of the Back Door Panel
D 2 Diode
Transponder Key Computer <4–16>
(1CD–FTV)
D 8 Door Courtesy SW Front LH
Body ECU
ECUB
PCTY
DCTY
SB(B–R)
B–R
R–Y
SB(V)
V
L
Y
W–B
SB(R–Y)
R–L

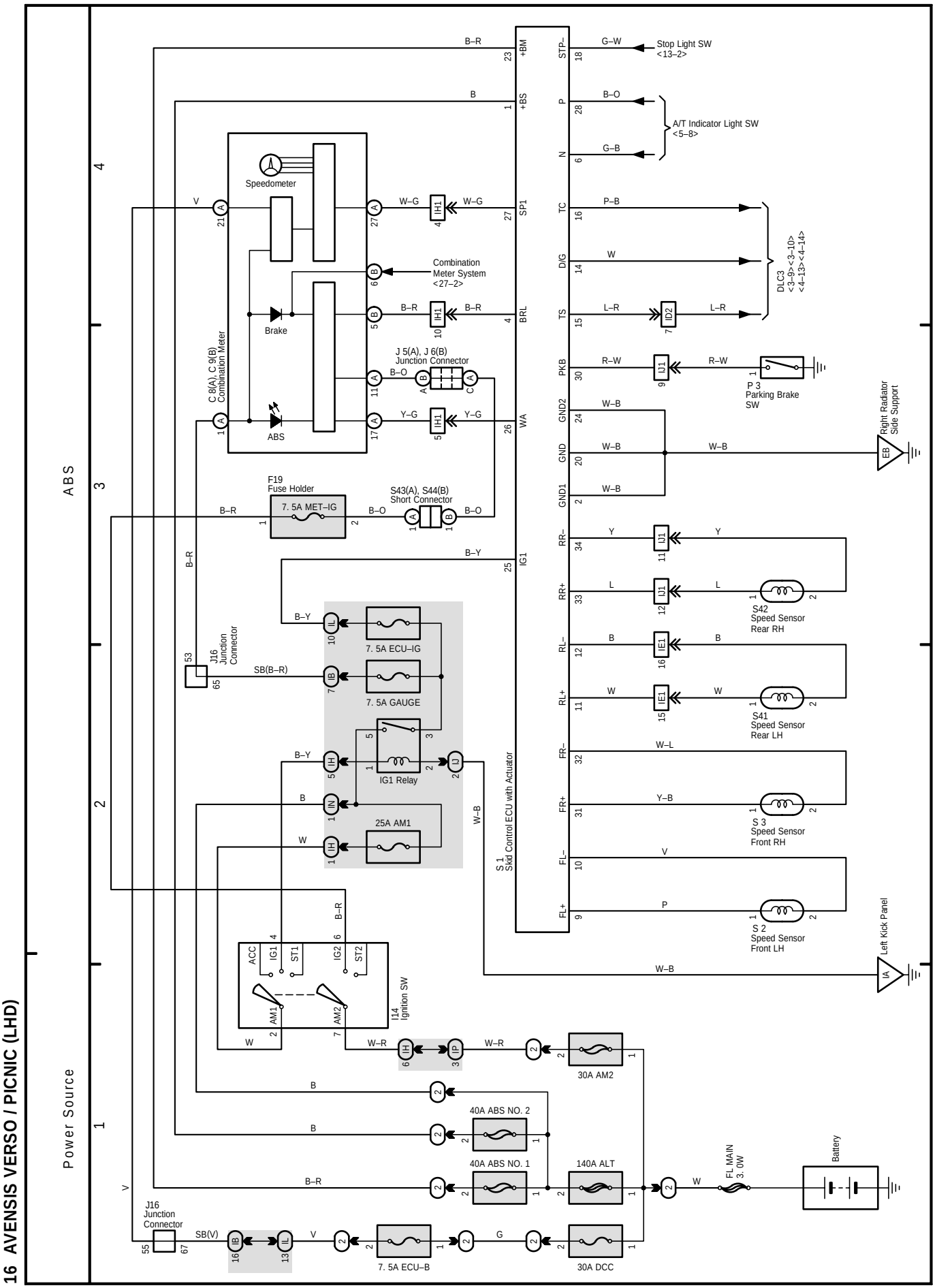


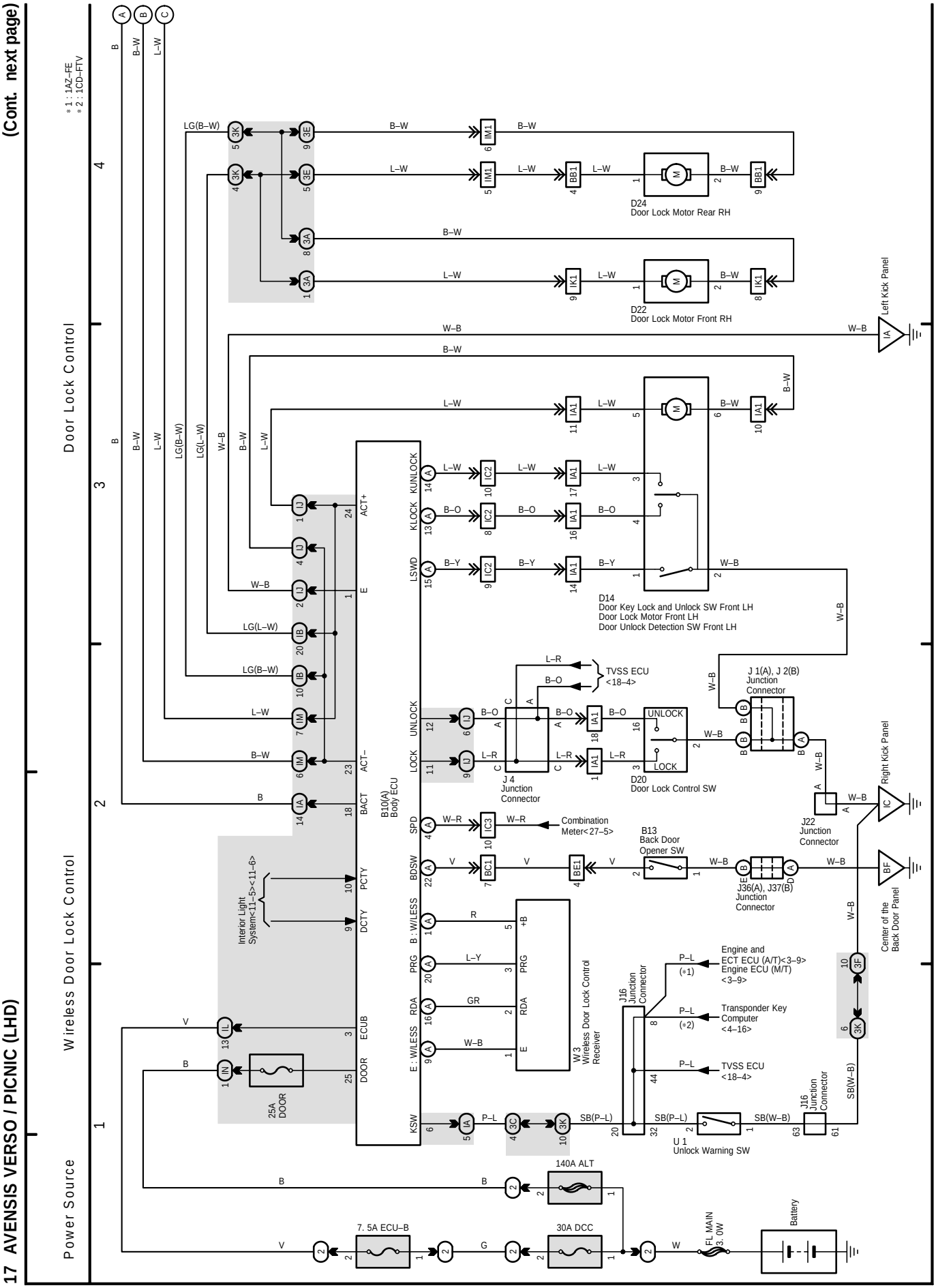
12 AVENSIS VERSO / PICNIC (LHD)


13 AVENSIS VERSO / PICNIC (LHD)
Power Source
Stop Light
Light Reminder
1
2
3
4
C 8(A), C 9(B)
Combination Meter
Illumination
Buzzer
Illumination System<9–3>
Interior Light System<11–8>
J16 Junction Connector
Right Kick Panel
Left Kick Panel
H16 High Mounted Stop Light
R16 Rear Combination Light RH
R14 Rear Combination Light LH
J33(A), J34(B) Junction Connector
J23(A), J24(B) Junction Connector
J31 Junction Connector
S38 Stop Light SW
Skid Control ECU with Actuator <16–4>
Front Side of the Left Quarter Panel
Engine and ECT ECU (A/T) <3–7>
Engine ECU (M/T) <3–7><4–11>
7. 5A GAUGE
IG1 Relay
I14 Ignition SW
ACC
IG1
ST1
AM1
25A AM1
15A STOP
140A ALT
FL MAIN 3. 0W
Battery
7. 5A ECU–B
30A DCC
SB(V)
SB(B–R)
B–R
V
W–B
G–W
G–B
B–Y
W
B
G

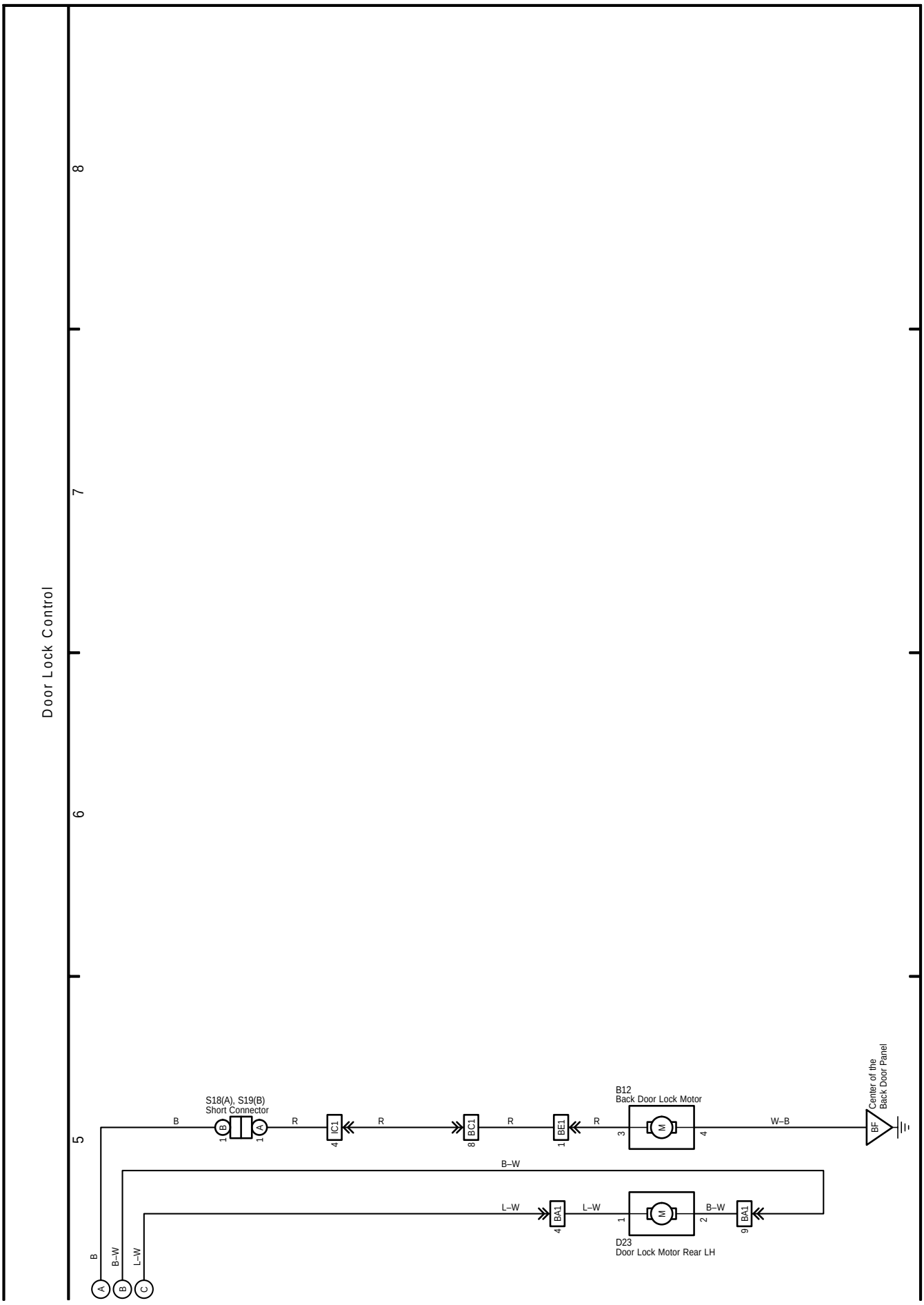

14 AVENSIS VERSO / PICNIC (LHD)
Power Source
Front Fog Light
Rear Fog Light
1
2
3
4
* 1 : w/ Daytime Running Light
* 2 : w/o Daytime Running Light
* 3 : 1CD-FTV
* 4 : 1AZ-FE
B10(A) Body ECU
ECUB
IG
INTRY
INTLP
RR FOG
RR FOGSW
FR FOGSW
L/C(H)
RR FOG LP
Headlight System <6–2><7–2>
J 7 Junction Connector
J36(A), J37(B) Junction Connector
R15 Rear Combination Light LH
R17 Rear Combination Light LH
Rear Fog
C12 Combination SW
RR
FR
EF
FG ON
RFG ON
Fog Light SW
S16(A), S17(B) Short Connector
S14(A), S15(B) Short Connector
S22(A), S23(B) Short Connector
Center of the Back Door Panel
Right Kick Panel
Left Kick Panel
Left Radiator Side Support
Right Radiator Side Support
F15 Front Fog Light Relay
F 3 Front Fog Light LH
F 4 Front Fog Light RH
J 8 Junction Connector
J15 Junction Connector
J23(A), J24(B) Junction Connector
C 8 Combination Meter
Front Fog
7. 5A GAUGE
IG1 Relay
I14 Ignition SW
ACC
IG1
ST1
AM1
25A AM1
15A FR FOG
Taillight System<8–2>
TAIL Relay
7. 5A PANEL
140A ALT
FL MAIN 3. 0W
Battery
7. 5A RR FOG
7. 5A ECU–B
30A DCC

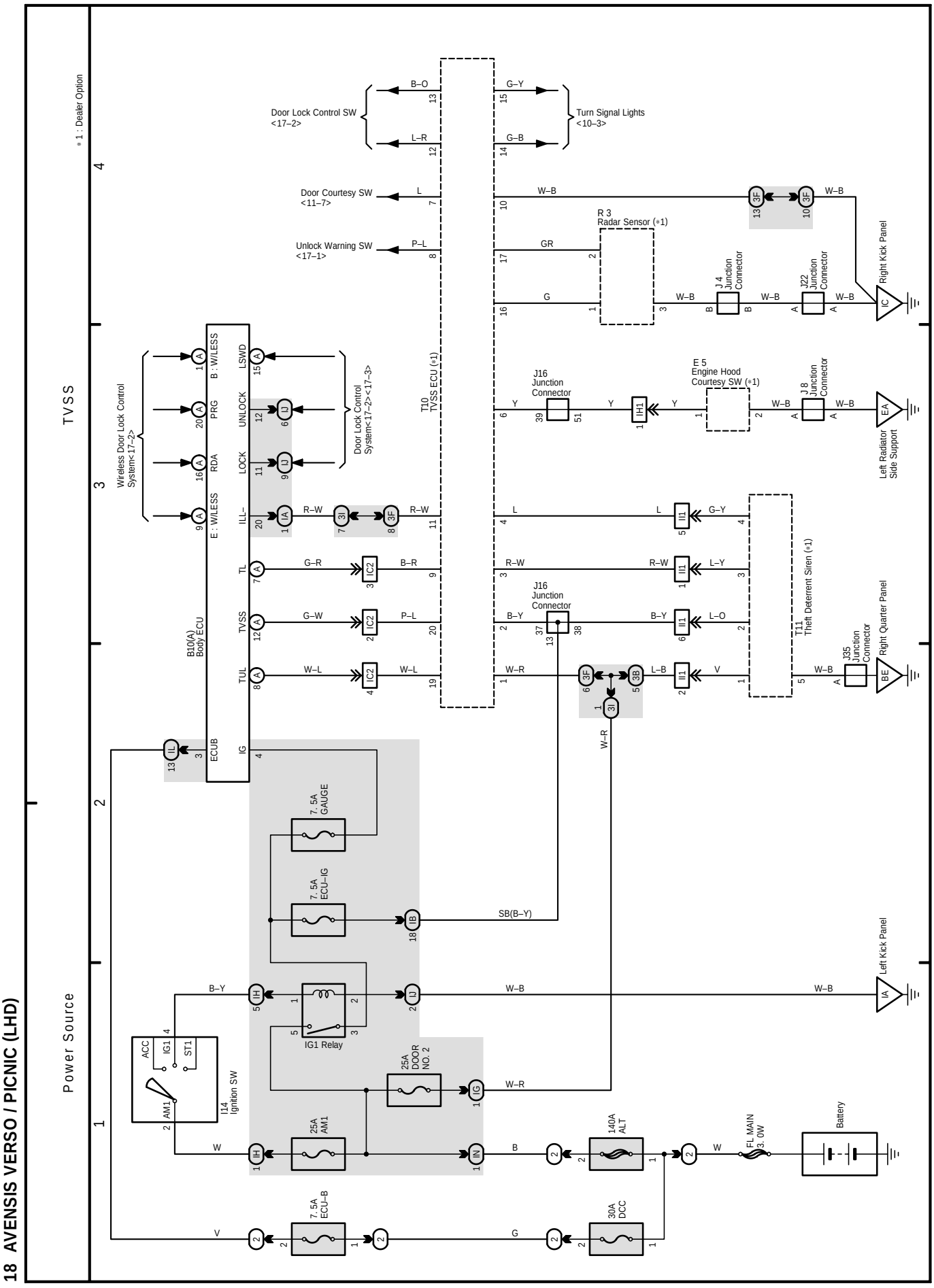

15 AVENSIS VERSO / PICNIC (LHD)
Power Source
SRS
* 1 : 1AZ-FE
* 2 : w/ Curtain Shield Airbag
C14 Curtain Shield Airbag Squib RH
C13 Curtain Shield Airbag Squib LH
S40 Side Airbag Sensor RH
S39 Side Airbag Sensor LH
A20(A), A21(B), A22(C) Airbag Sensor Assembly
S37 Side Airbag Squib RH
S36 Side Airbag Squib LH
P16 Pretensioner RH
P15 Pretensioner LH
A23 Airbag Squib (Front Passenger Airbag Assembly)
A24 Airbag Squib (Steering Wheel Pad)
Spiral Cable
A 7 Airbag Sensor Front RH
A 6 Airbag Sensor Front LH
Connection Detection Pin
Engine and ECT ECU (A/T)<3–8>
Engine ECU (M/T) <3–8>
J13(A), J14(B) Junction Connector
C 8(A), C 9(B) Combination Meter
SRS
J 5(A), J 6(B) Junction Connector
S43(A), S44(B) Short Connector
F19 Fuse Holder
7. 5A MET–IG
10A IGN
10A SRS–IG
IG1 Relay
I14 Ignition SW
ACC
IG1
ST1
IG2
ST2
AM1
AM2
DLC3 <3–9> <4–13>
25A AM1
30A AM2
140A ALT
FL MAIN 3. 0W
Battery
Left Kick Panel

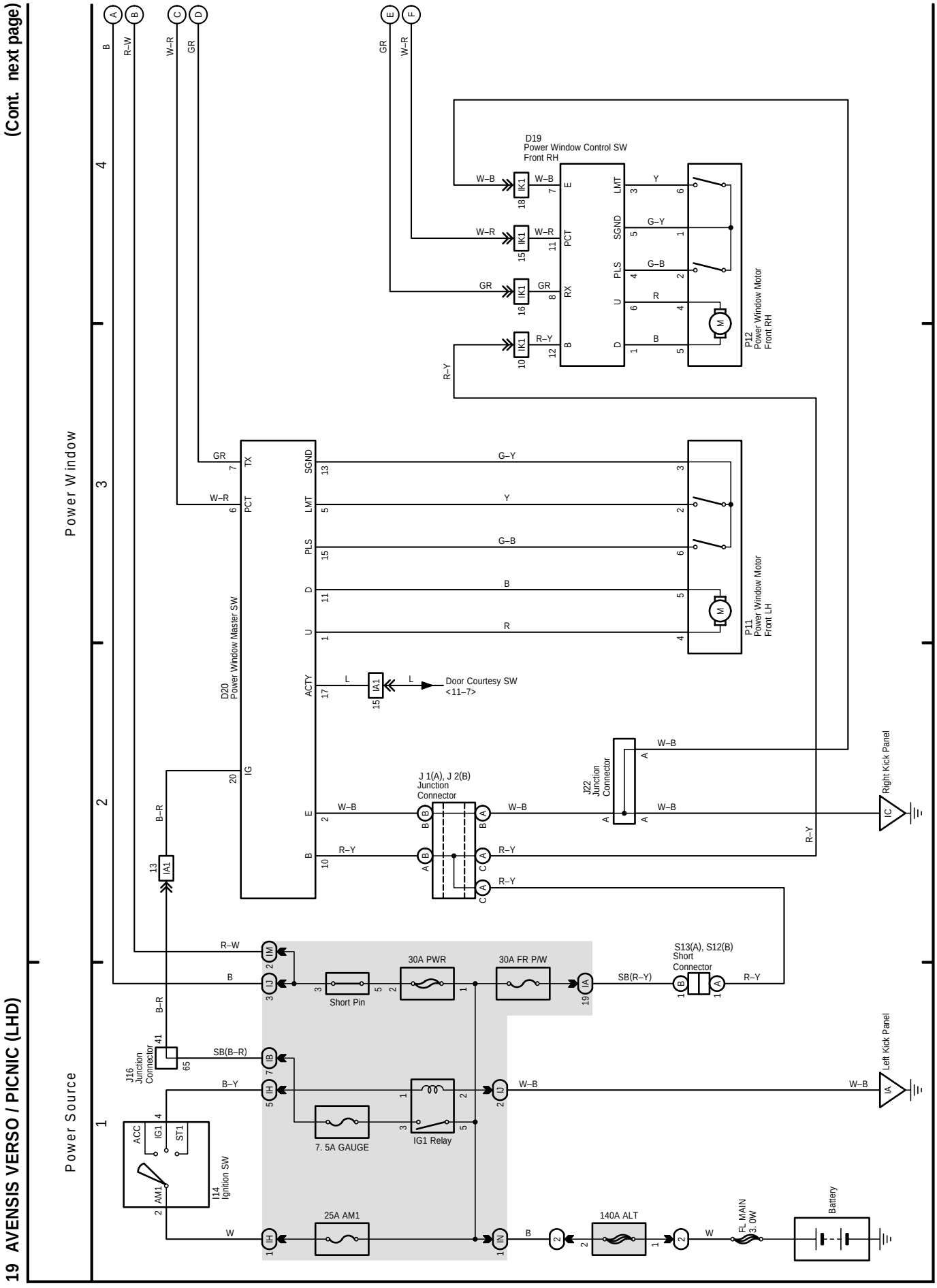

16 AVENSIS VERSO / PICNIC (LHD)
Power Source
ABS
Speedometer
Combination Meter System <27–2>
Brake
ABS
C 9(A), C 9(B) Combination Meter
J 5(A), J 6(B) Junction Connector
F19 Fuse Holder
7. 5A MET–IG
S43(A), S44(B) Short Connector
7. 5A ECU–IG
7. 5A GAUGE
IG1 Relay
25A AM1
J16 Junction Connector
I14 Ignition SW
30A AM2
40A ABS NO. 2
40A ABS NO. 1
140A ALT
7. 5A ECU–B
30A DCC
FL MAIN 3. 0W
Battery
Stop Light SW <13–2>
A/T Indicator Light SW <5–8>
DLC3 <3–9><3–10> <4–13><4–14>
P 3 Parking Brake SW
Right Radiator Side Support
Left Kick Panel
S 1 Skid Control ECU with Actuator
S42 Speed Sensor Rear RH
S41 Speed Sensor Rear LH
S 3 Speed Sensor Front RH
S 2 Speed Sensor Front LH


(Cont. next page)
17 AVENSIS VERSO / PICNIC (LHD)
Power Source
Wireless Door Lock Control
Door Lock Control
* 1 : 1AZ–FE
* 2 : 1CD–FTV
D24
Door Lock Motor Rear RH
D22
Door Lock Motor Front RH
D14
Door Key Lock and Unlock SW Front LH
Door Lock Motor Front LH
Door Unlock Detection SW Front LH
D20
Door Lock Control SW
J 4
Junction
Connector
J 1(A), J 2(B)
Junction
Connector
J22
Junction
Connector
J36(A), J37(B)
Junction
Connector
B13
Back Door
Opener SW
U 1
Unlock Warning SW
B10(A)
Body ECU
W 3
Wireless Door Lock Control
Receiver
J16
Junction
Connector
Interior Light
System<11–5><11–6>
Combination
Meter<27–5>
TVSS ECU
<18–4>
Engine and
ECT ECU (A/T)<3–9>
Engine ECU (M/T)
<3–9>
Transponder Key
Computer
<4–16>
Left Kick Panel
Right Kick Panel
Center of the
Back Door Panel
25A
DOOR
140A ALT
7. 5A ECU–B
30A DCC
FL MAIN
3. 0W
Battery

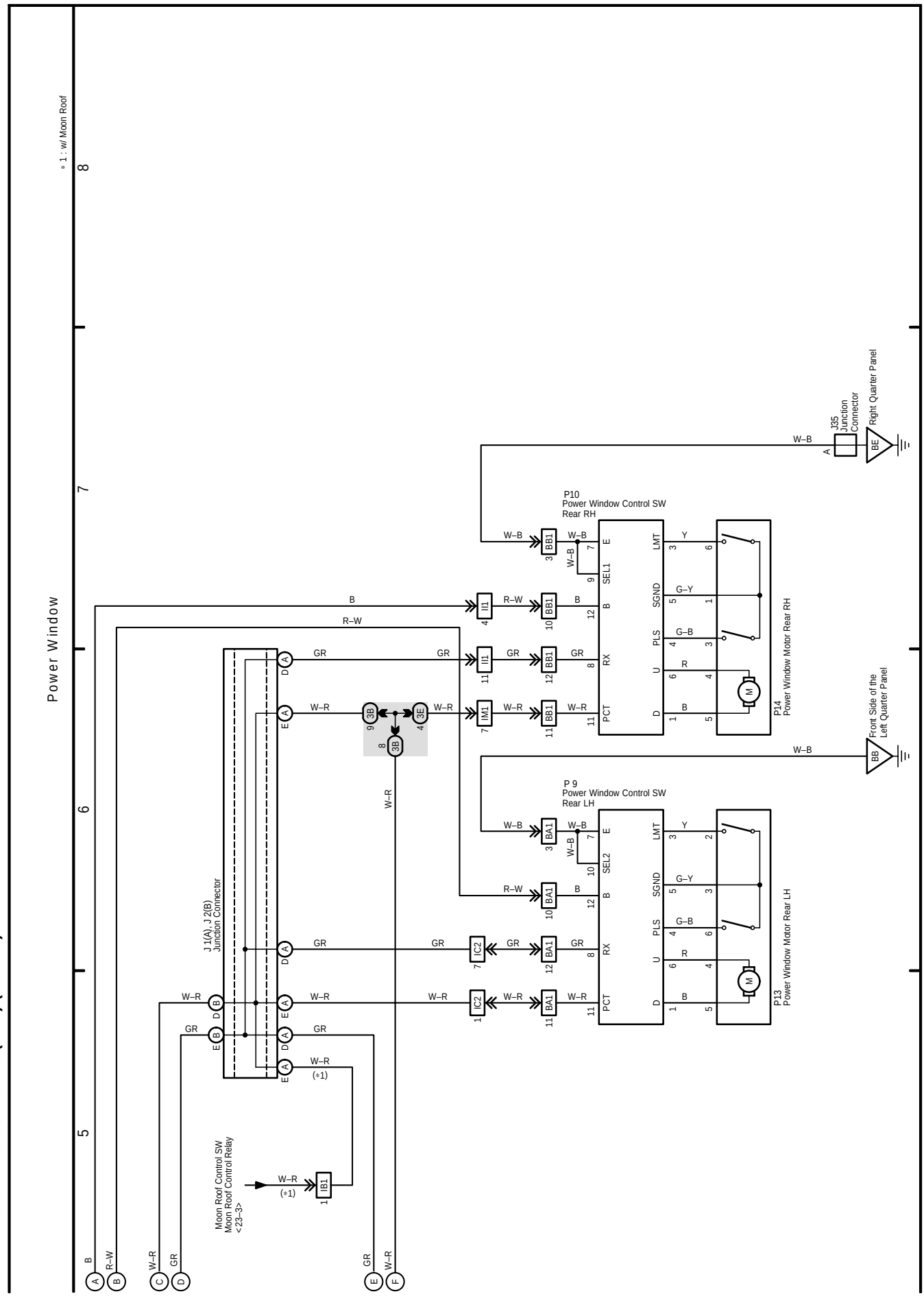
17 AVENSIS VERSO / PICNIC (LHD) (Cont' d)

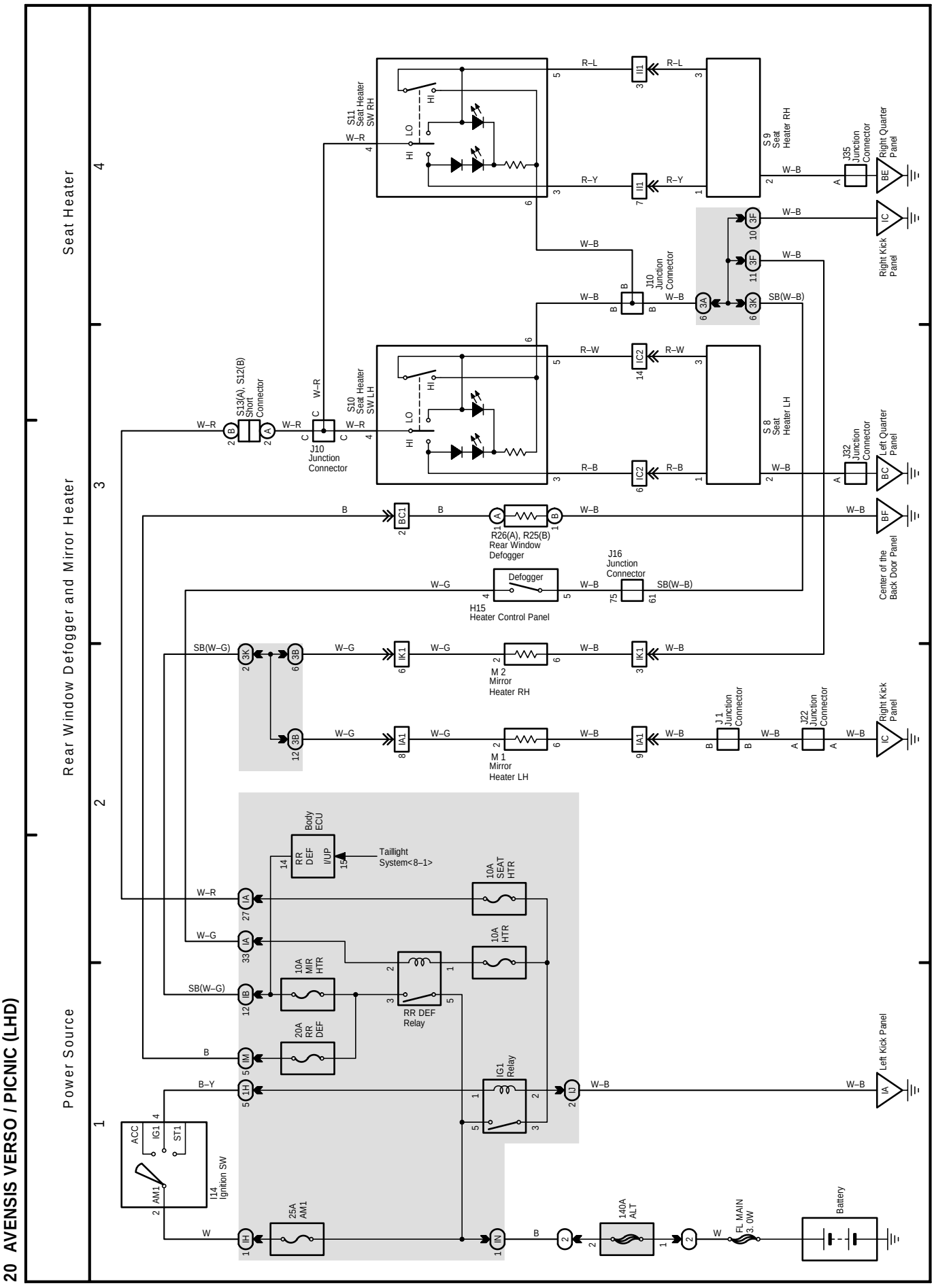


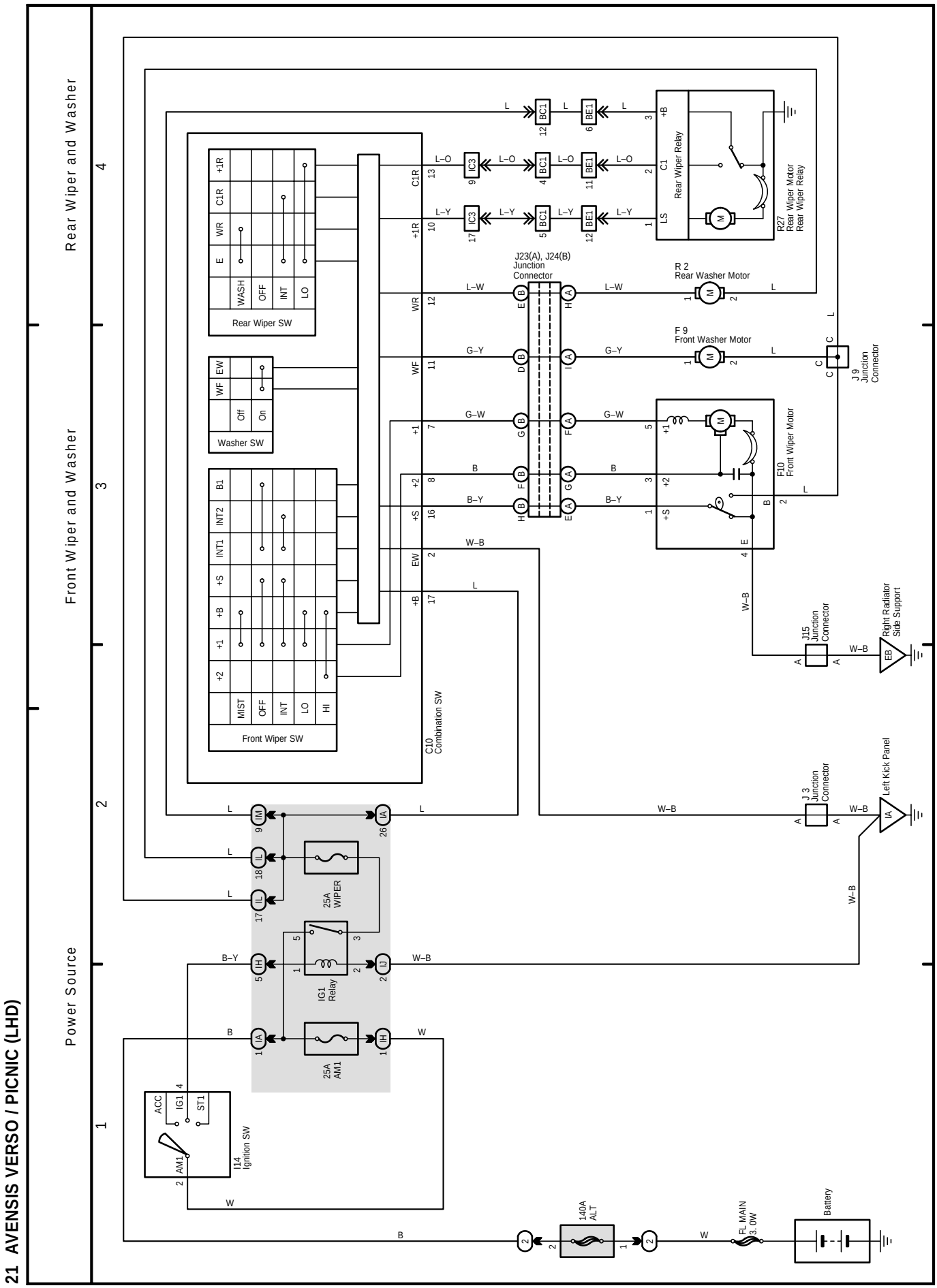

18 AVENSIS VERSO / PICNIC (LHD)
Power Source
TVSS
∗1 : Dealer Option
Door Lock Control SW <17–2>
Door Courtesy SW <11–7>
Unlock Warning SW <17–1>
Turn Signal Lights <10–3>
R 3 Radar Sensor (∗1)
J 4 Junction Connector
J22 Junction Connector
Right Kick Panel
J16 Junction Connector
E 5 Engine Hood Courtesy SW (∗1)
J 8 Junction Connector
Left Radiator Side Support
Wireless Door Lock Control System<17–2>
Door Lock Control System<17–2><17–3>
T10 TVSS ECU (∗1)
B10(A) Body ECU
T11 Theft Deterrent Siren (∗1)
J35 Junction Connector
Right Quarter Panel
Left Kick Panel
7. 5A GAUGE
7. 5A ECU–IG
SB(B–Y)
IG1 Relay
I14 Ignition SW
25A DOOR NO. 2
25A AM1
140A ALT
FL MAIN 3. 0W
Battery
7. 5A ECU–B
30A DCC

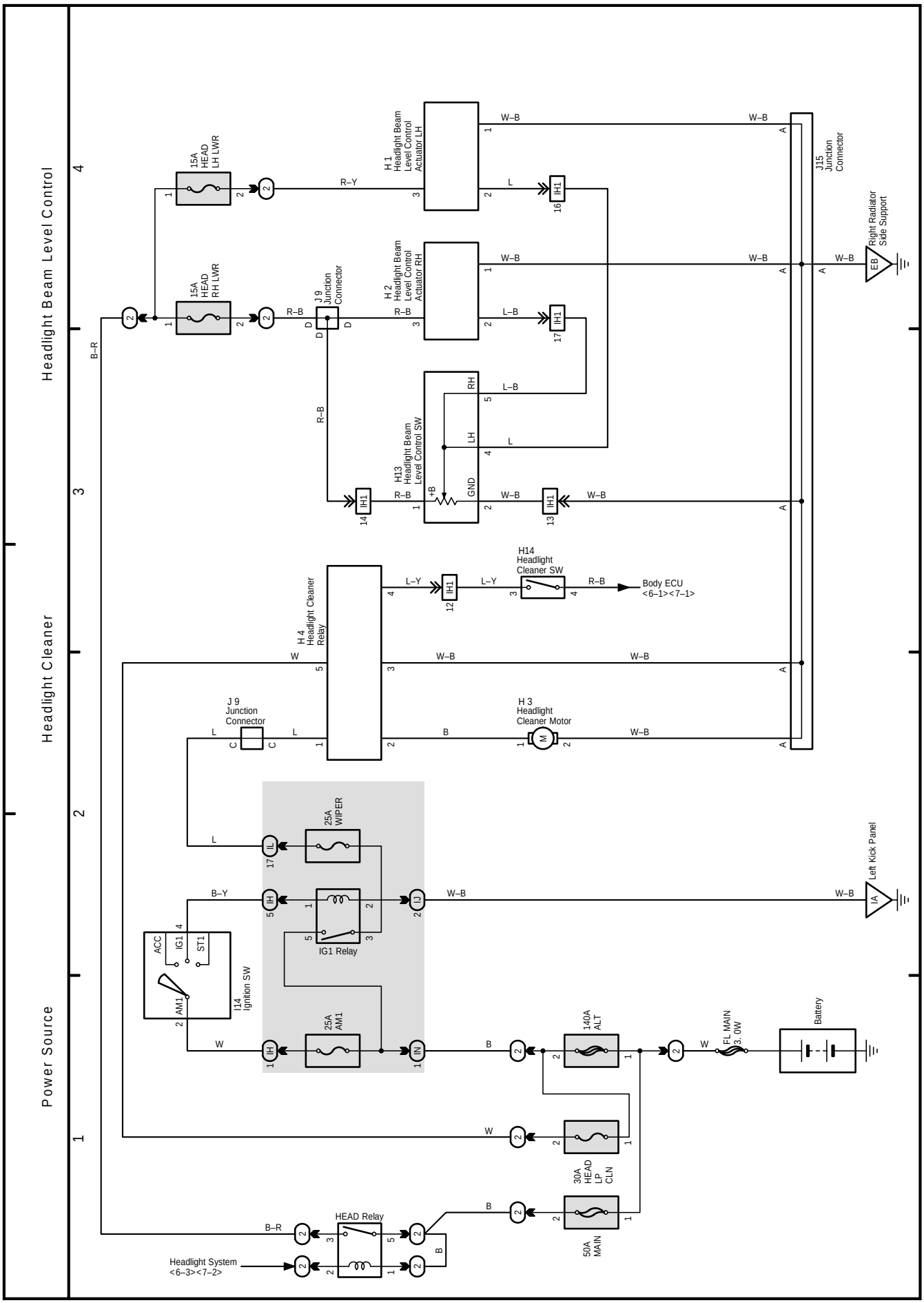

(Cont. next page)
19 AVENSIS VERSO / PICNIC (LHD)
Power Source
Power Window
D19
Power Window Control SW
Front RH
P12
Power Window Motor
Front RH
P11
Power Window Motor
Front LH
D20
Power Window Master SW
Door Courtesy SW
<11–7>
J 1(A), J 2(B)
Junction
Connector
J22
Junction
Connector
J16
Junction
Connector
S13(A), S12(B)
Short
Connector
Short Pin
30A PWR
30A FR P/W
7. 5A GAUGE
IG1 Relay
25A AM1
140A ALT
FL MAIN
3. 0W
I14
Ignition SW
Battery
Right Kick Panel
Left Kick Panel

19 AVENSIS VERSO / PICNIC (LHD) (Cont' d)

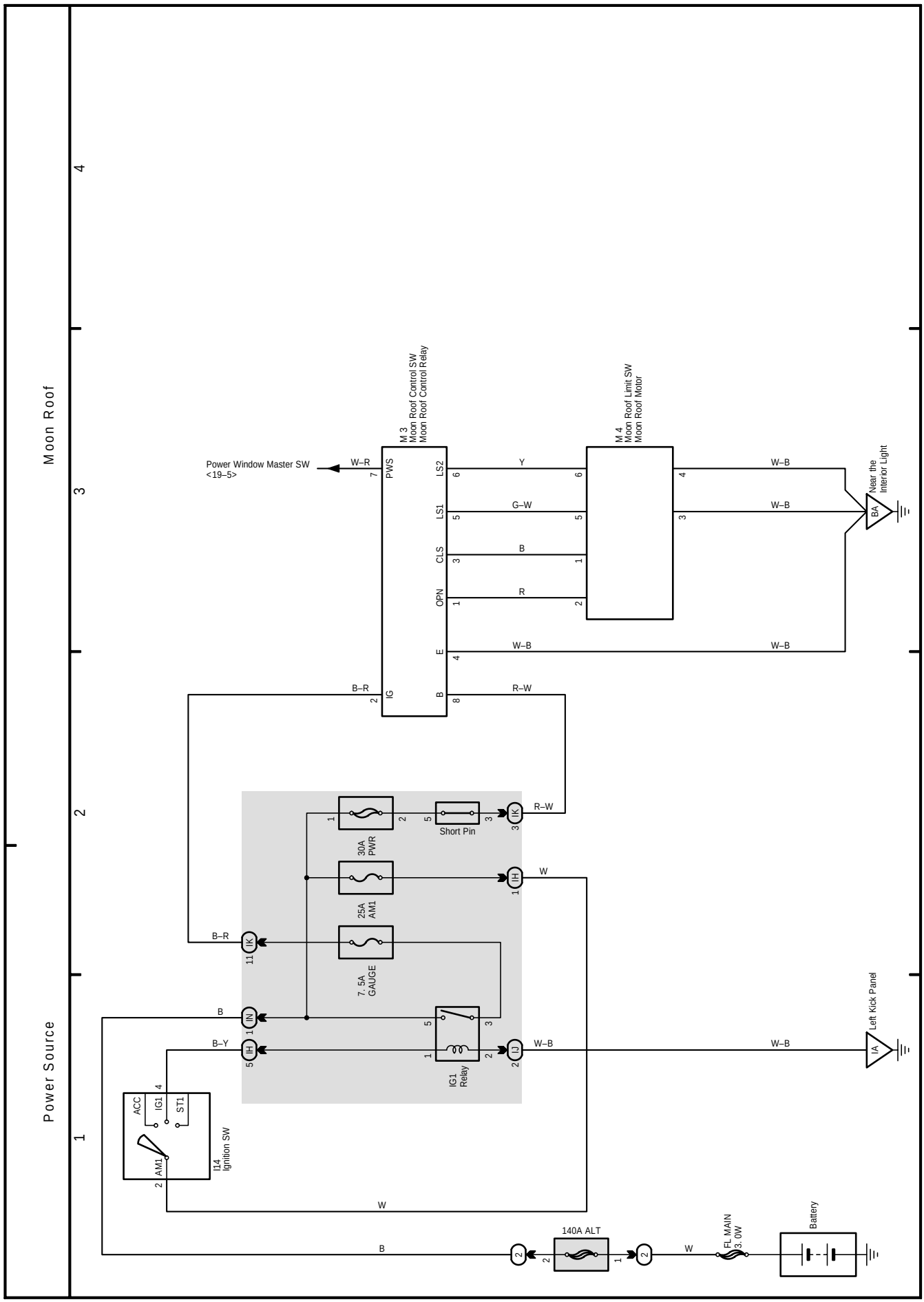


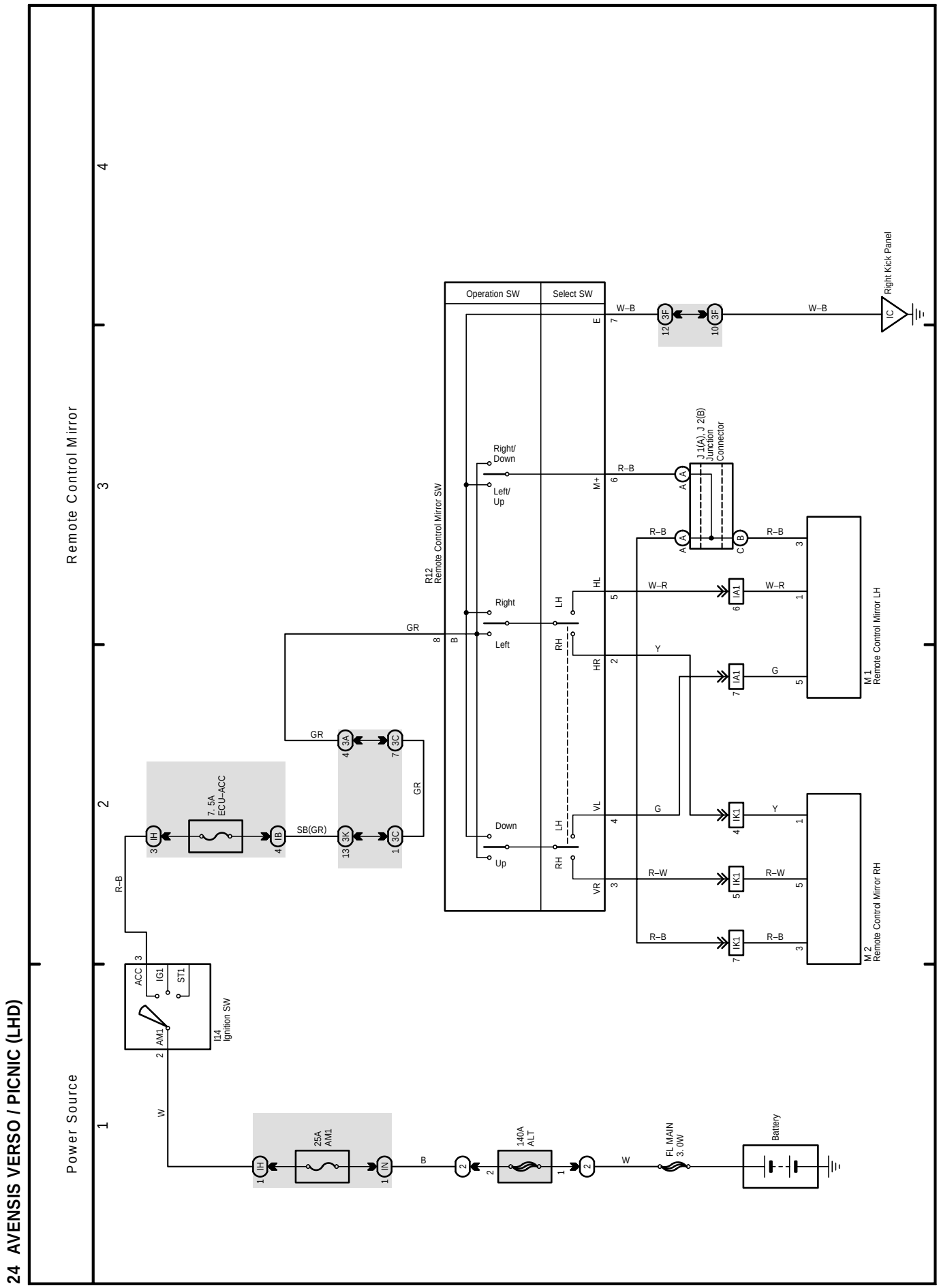

20 AVENSIS VERSO / PICNIC (LHD)
Power Source
Rear Window Defogger and Mirror Heater
Seat Heater
1
2
3
4
S11 Seat Heater SW RH
S10 Seat Heater SW LH
S13(A), S12(B) Short Connector
J10 Junction Connector
S 9 Seat Heater RH
S 8 Seat Heater LH
J35 Junction Connector
J32 Junction Connector
Right Quarter Panel
Left Quarter Panel
Right Kick Panel
Left Kick Panel
Center of the Back Door Panel
R26(A), R25(B) Rear Window Defogger
J16 Junction Connector
Defogger
H15 Heater Control Panel
M 2 Mirror Heater RH
M 1 Mirror Heater LH
J 1 Junction Connector
J22 Junction Connector
Body ECU
RR DEF
I/UP
Taillight System<8–1>
10A SEAT HTR
10A HTR
10A MIR HTR
20A RR DEF
RR DEF Relay
IG1 Relay
25A AM1
140A ALT
FL MAIN 3.0W
Battery
I14 Ignition SW
ACC
IG1
ST1
AM1


21 AVENSIS VERSO / PICNIC (LHD)
Power Source
Front Wiper and Washer
Rear Wiper and Washer
Rear Wiper SW
Washer SW
Front Wiper SW
C10 Combination SW
J23(A), J24(B) Junction Connector
R 2 Rear Washer Motor
F 9 Front Washer Motor
J 9 Junction Connector
F10 Front Wiper Motor
R27 Rear Wiper Motor Rear Wiper Relay
C1 Rear Wiper Relay
J15 Junction Connector
Right Radiator Side Support
EB
J 3 Junction Connector
Left Kick Panel
IA
25A WIPER
IG1 Relay
25A AM1
I14 Ignition SW
ACC
IG1
ST1
AM1
140A ALT
FL MAIN 3. 0W
Battery

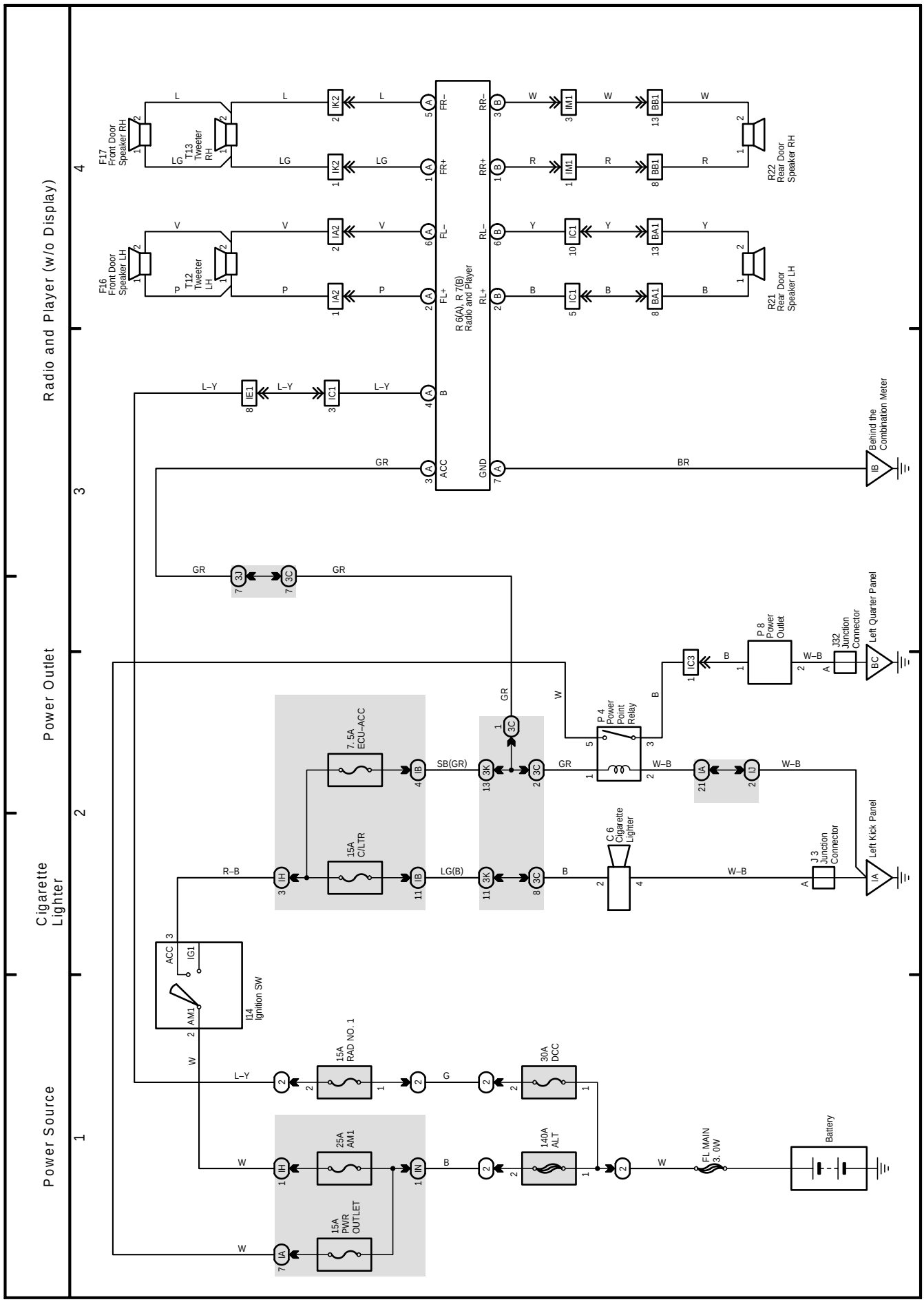

22 AVENSIS VERSO / PICNIC (LHD)
Power Source
Headlight Cleaner
Headlight Beam Level Control
15A HEAD LH LWR
15A HEAD RH LWR
H1 Headlight Beam Level Control Actuator LH
H2 Headlight Beam Level Control Actuator RH
H13 Headlight Beam Level Control SW
J9 Junction Connector
J15 Junction Connector
Right Radiator Side Support
H14 Headlight Cleaner SW
Body ECU <6–1><7–1>
H4 Headlight Cleaner Relay
H3 Headlight Cleaner Motor
25A WIPER
25A AM1
IG1 Relay
I14 Ignition SW
ACC
IG1
ST1
AM1
Left Kick Panel
140A ALT
FL MAIN 3. 0W
Battery
30A HEAD LP CLN
50A MAIN
HEAD Relay
Headlight System <6–3><7–2>

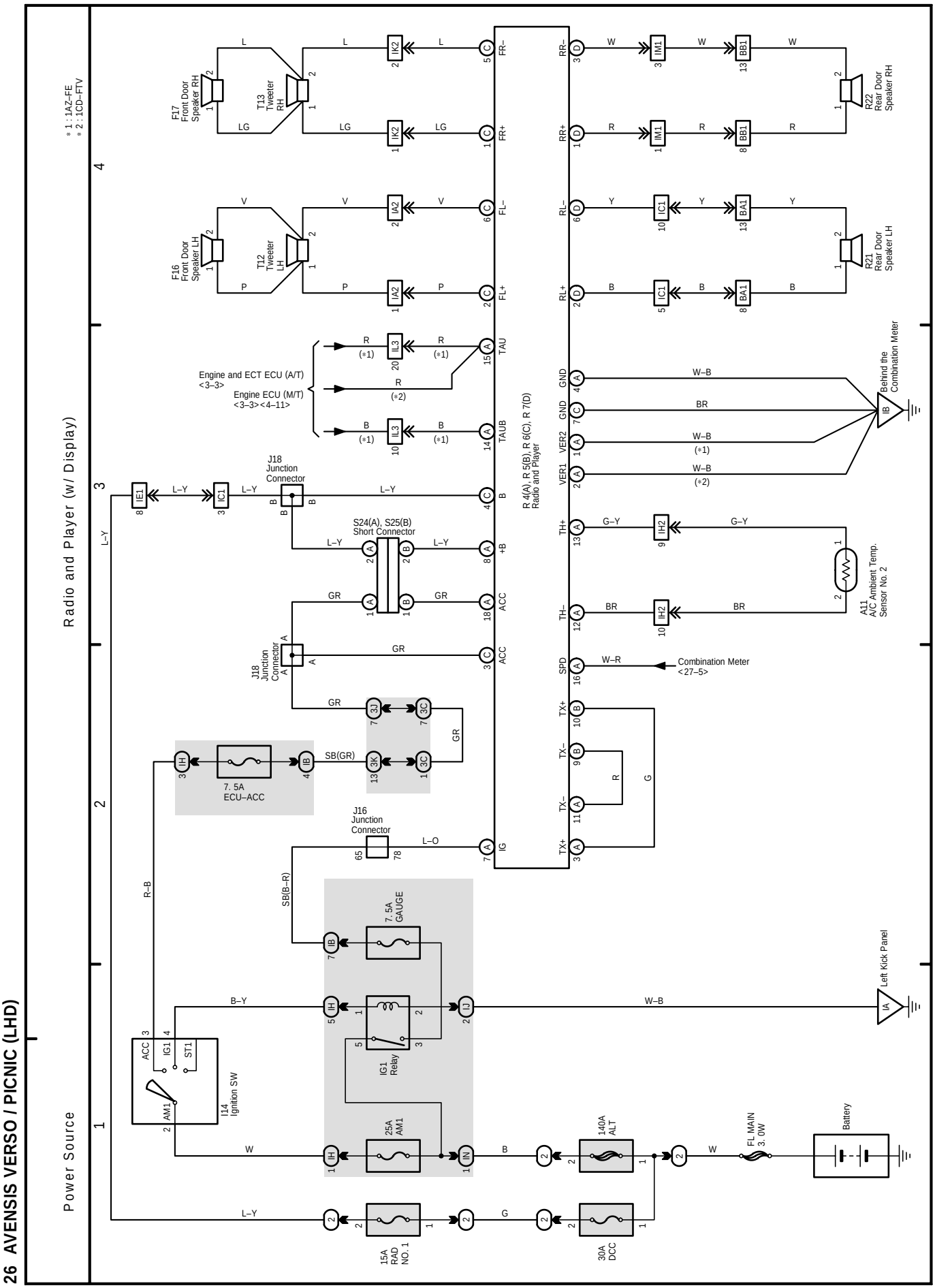
23 AVENSIS VERSO / PICNIC (LHD)

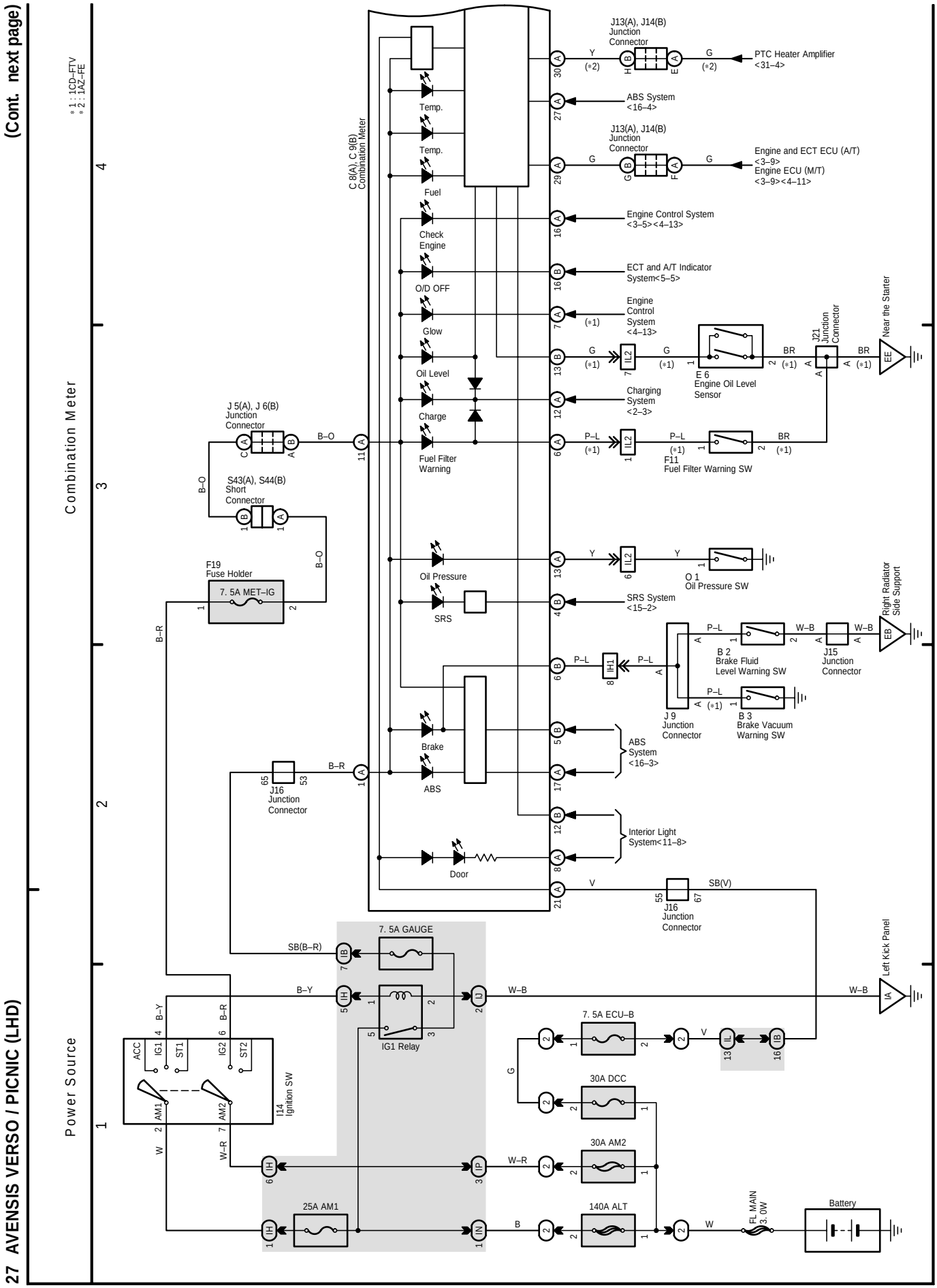


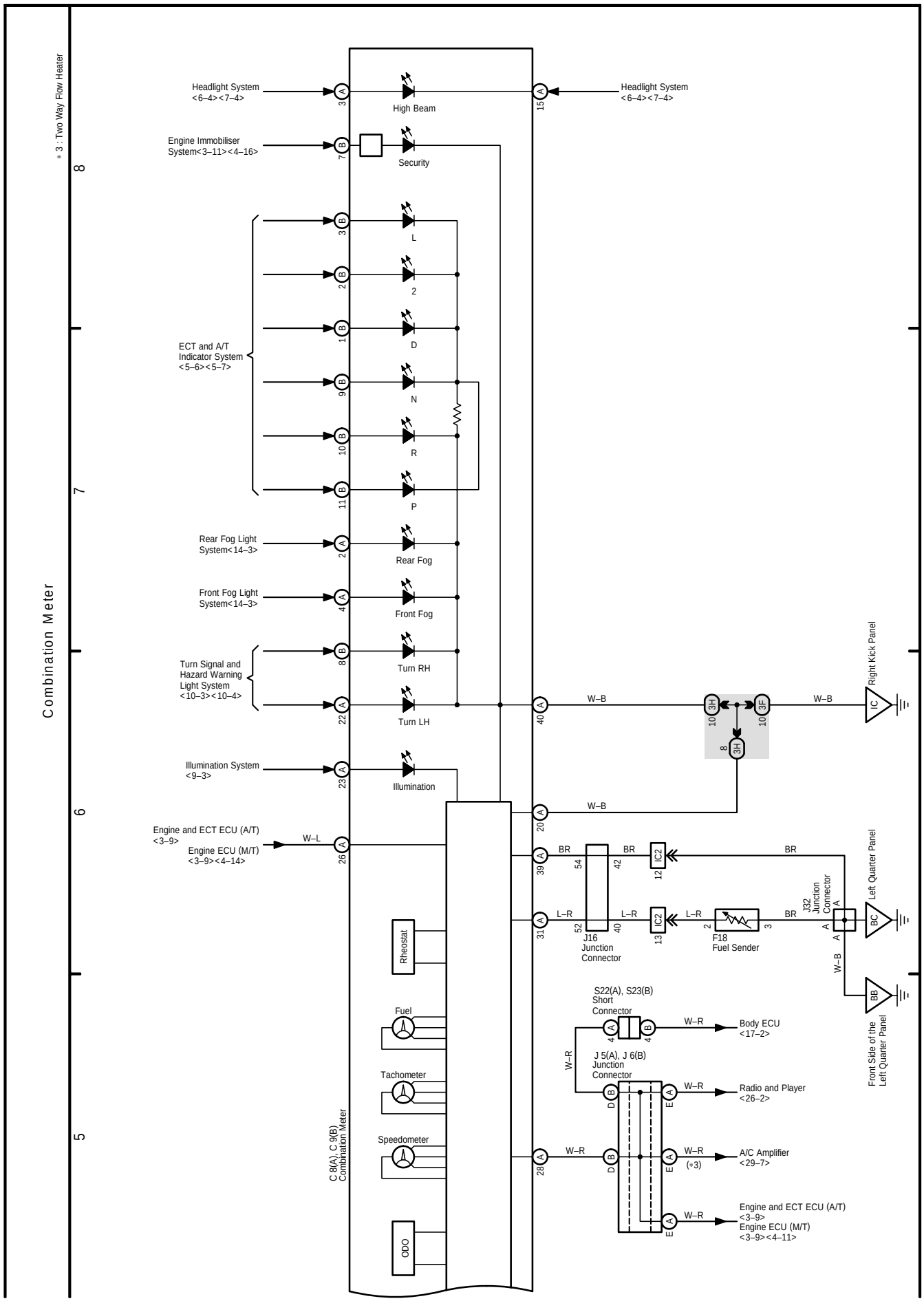

24 AVENSIS VERSO / PICNIC (LHD)
Power Source
Remote Control Mirror
1
2
3
4
I14 Ignition SW
ACC
IG1
ST1
AM1
7. 5A ECU–ACC
25A AM1
140A ALT
FL MAIN 3. 0W
Battery
R12 Remote Control Mirror SW
Operation SW
Select SW
Right/ Down
Left/ Up
Right
Left
Down
Up
LH
RH
J 1(A), J 2(B) Junction Connector
M 1 Remote Control Mirror LH
M 2 Remote Control Mirror RH
Right Kick Panel
IC
W–B
R–B
W–R
R–W
GR
SB(GR)
B
W
Y
G

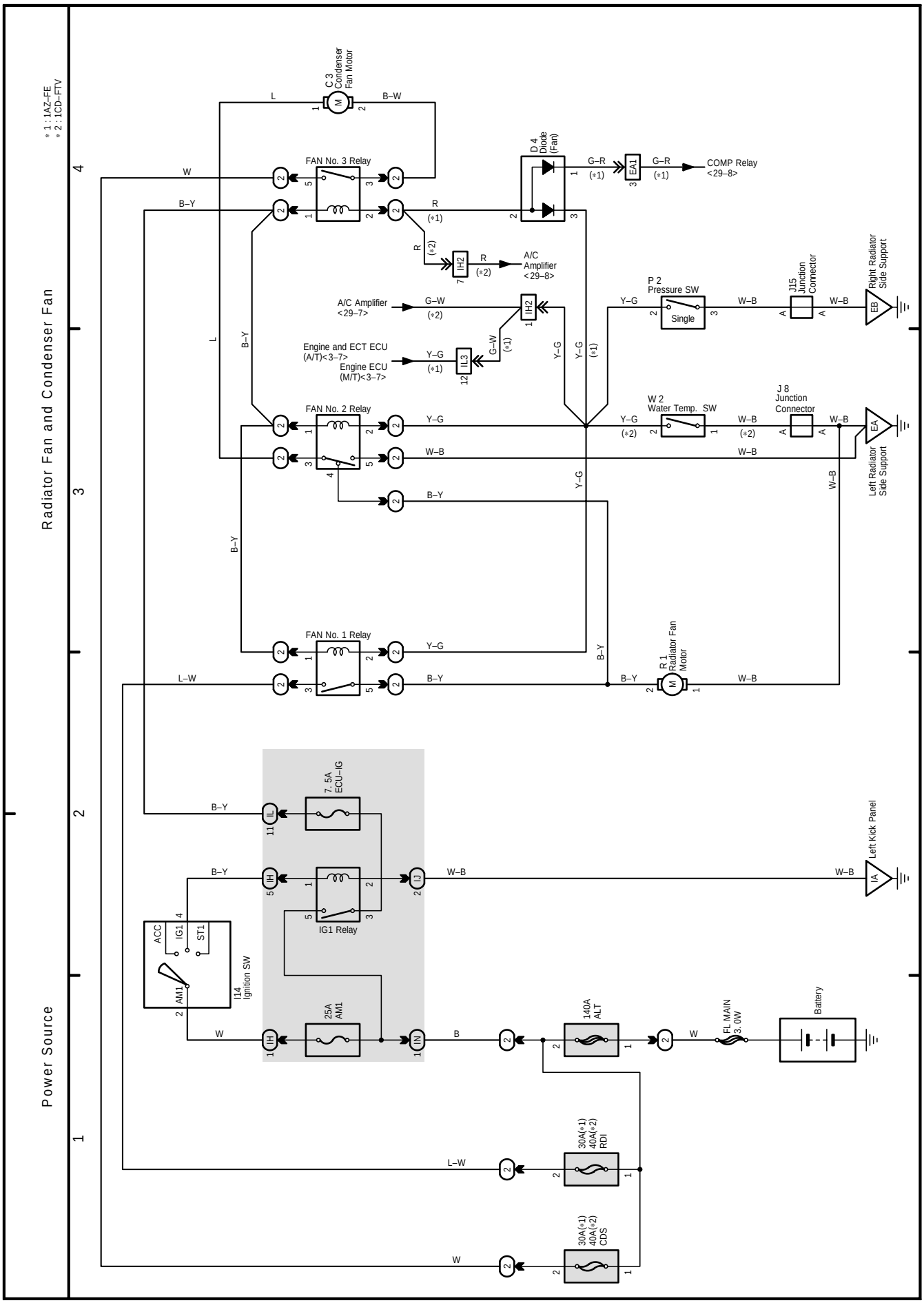
25 AVENSIS VERSO / PICNIC (LHD)

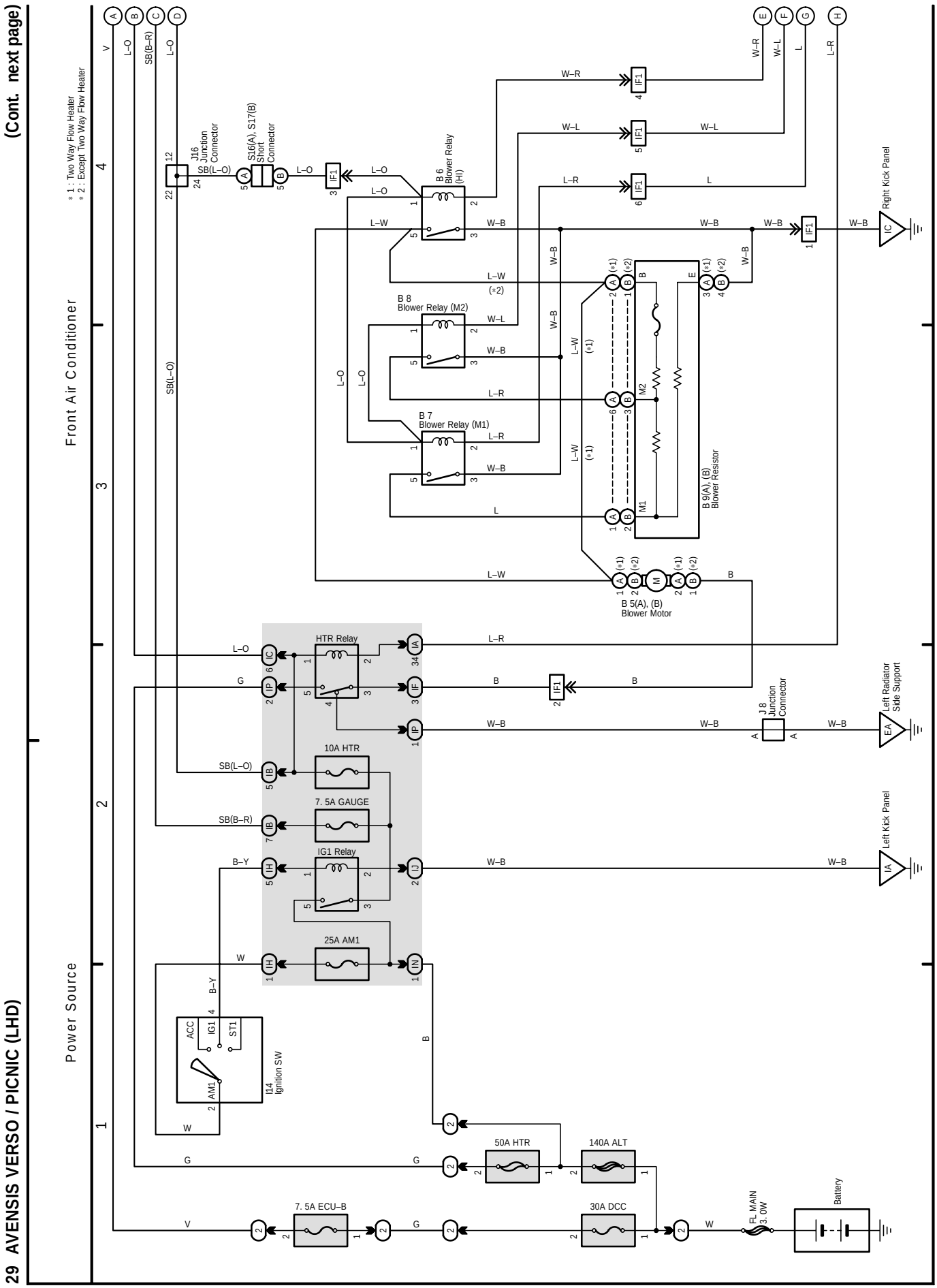



26 AVENSIS VERSO / PICNIC (LHD)
Power Source
Radio and Player (w/ Display)
*1: 1AZ–FE
*2: 1CD–FTV
F17 Front Door Speaker RH
T13 Tweeter RH
F16 Front Door Speaker LH
T12 Tweeter LH
R22 Rear Door Speaker RH
R21 Rear Door Speaker LH
Engine and ECT ECU (A/T) <3–3>
Engine ECU (M/T) <3–3><4–11>
J18 Junction Connector
S24(A), S25(B) Short Connector
J16 Junction Connector
R 4(A), R 5(B), R 6(C), R 7(D) Radio and Player
Behind the Combination Meter
A11 A/C Ambient Temp. Sensor No. 2
Combination Meter <27–5>
7. 5A ECU–ACC
7. 5A GAUGE
IG1 Relay
I14 Ignition SW
25A AM1
140A ALT
FL MAIN 3. 0W
Battery
15A RAD NO. 1
30A DCC
Left Kick Panel


(Cont. next page)
27 AVENSIS VERSO / PICNIC (LHD)
Power Source
Combination Meter
1
2
3
4
*1 : 1CD–FTV
*2 : 1AZ–FE
C 8(A), C 9(B) Combination Meter
J13(A), J14(B) Junction Connector
PTC Heater Amplifier <31–4>
ABS System <16–4>
Engine and ECT ECU (A/T) <3–9>
Engine ECU (M/T) <3–9><4–11>
Engine Control System <3–5><4–13>
ECT and A/T Indicator System<5–5>
Engine Control System <4–13>
Charging System <2–3>
Temp.
Fuel
Check Engine
O/D OFF
Glow
Oil Level
Charge
Fuel Filter Warning
Oil Pressure
SRS
Brake
ABS
Door
E 6 Engine Oil Level Sensor
F11 Fuel Filter Warning SW
O 1 Oil Pressure SW
B 2 Brake Fluid Level Warning SW
B 3 Brake Vacuum Warning SW
J9 Junction Connector
J15 Junction Connector
J16 Junction Connector
J21 Junction Connector
Near the Starter
Right Radiator Side Support
Left Kick Panel
J 5(A), J 6(B) Junction Connector
S43(A), S44(B) Short Connector
F19 Fuse Holder
7. 5A MET–IG
7. 5A GAUGE
7. 5A ECU–B
30A DCC
30A AM2
25A AM1
140A ALT
IG1 Relay
I14 Ignition SW
ACC
IG1
ST1
IG2
ST2
AM1
AM2
Battery
FL MAIN 3. 0W
ABS System <16–3>
Interior Light System<11–8>
SRS System <15–2>


27 AVENSIS VERSO / PICNIC (LHD) (Cont' d)
Combination Meter
* 3 : Two Way Flow Heater
Headlight System <6–4><7–4>
High Beam
Engine Immobiliser System<3–11><4–16>
Security
ECT and A/T Indicator System <5–6><5–7>
L
2
D
N
R
P
Rear Fog Light System<14–3>
Rear Fog
Front Fog Light System<14–3>
Front Fog
Turn Signal and Hazard Warning Light System <10–3><10–4>
Turn RH
Turn LH
Illumination System <9–3>
Illumination
Engine and ECT ECU (A/T) <3–9>
Engine ECU (M/T) <3–9><4–14>
W–L
Rheostat
Fuel
Tachometer
Speedometer
ODO
C 8(A), C 9(B) Combination Meter
W–B
Right Kick Panel
IC
J16 Junction Connector
F18 Fuel Sender
J32 Junction Connector
Left Quarter Panel
BC
BB
Front Side of the Left Quarter Panel
S22(A), S23(B) Short Connector
Body ECU <17–2>
J 5(A), J 6(B) Junction Connector
Radio and Player <26–2>
A/C Amplifier <29–7>
Engine and ECT ECU (A/T) <3–9>
Engine ECU (M/T) <3–9><4–11>


* 1 : 1AZ–FE
* 2 : 1CD–FTV
Radiator Fan and Condenser Fan
Power Source
C 3 Condenser Fan Motor
FAN No. 3 Relay
FAN No. 2 Relay
FAN No. 1 Relay
D 4 Diode (Fan)
COMP Relay <29–8>
A/C Amplifier <29–8>
A/C Amplifier <29–7>
Engine and ECT ECU (A/T)<3–7>
Engine ECU (M/T)<3–7>
P 2 Pressure SW
W 2 Water Temp. SW
J15 Junction Connector
J 8 Junction Connector
Right Radiator Side Support
Left Radiator Side Support
Left Kick Panel
R 1 Radiator Fan Motor
7. 5A ECU–IG
IG1 Relay
I14 Ignition SW
25A AM1
140A ALT
FL MAIN 3. 0W
Battery
30A(*1) 40A(*2) RDI
30A(*1) 40A(*2) CDS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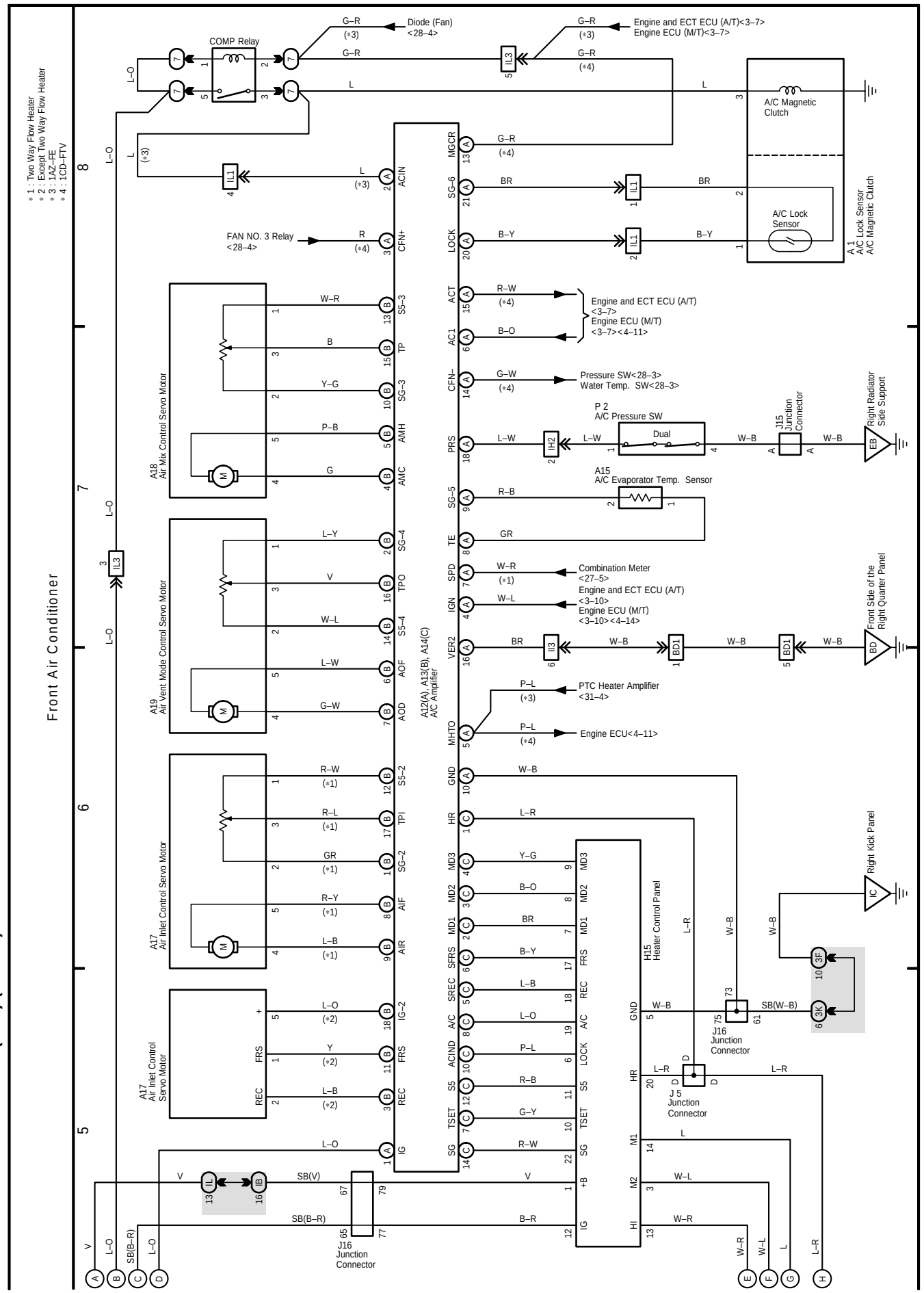
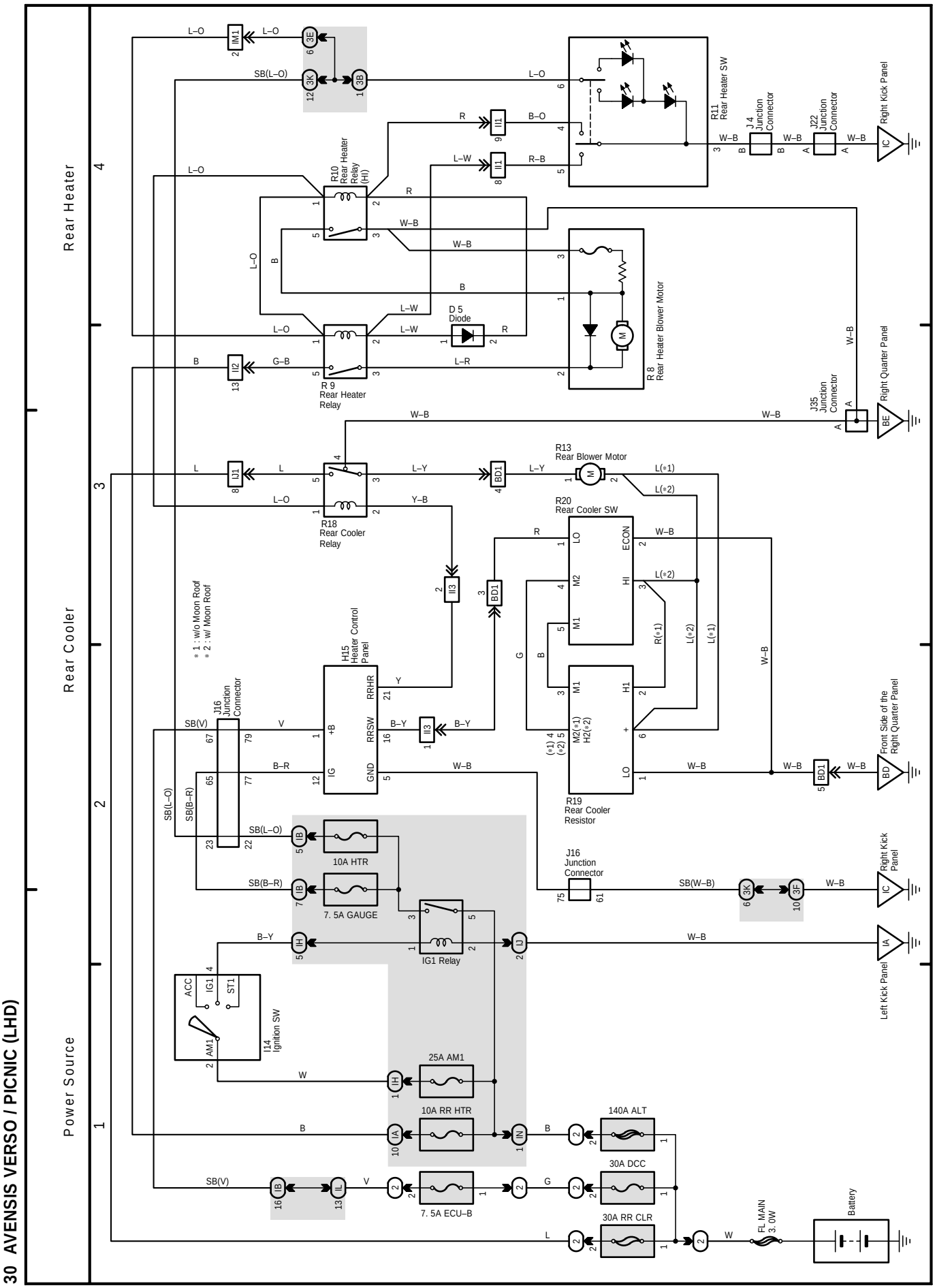
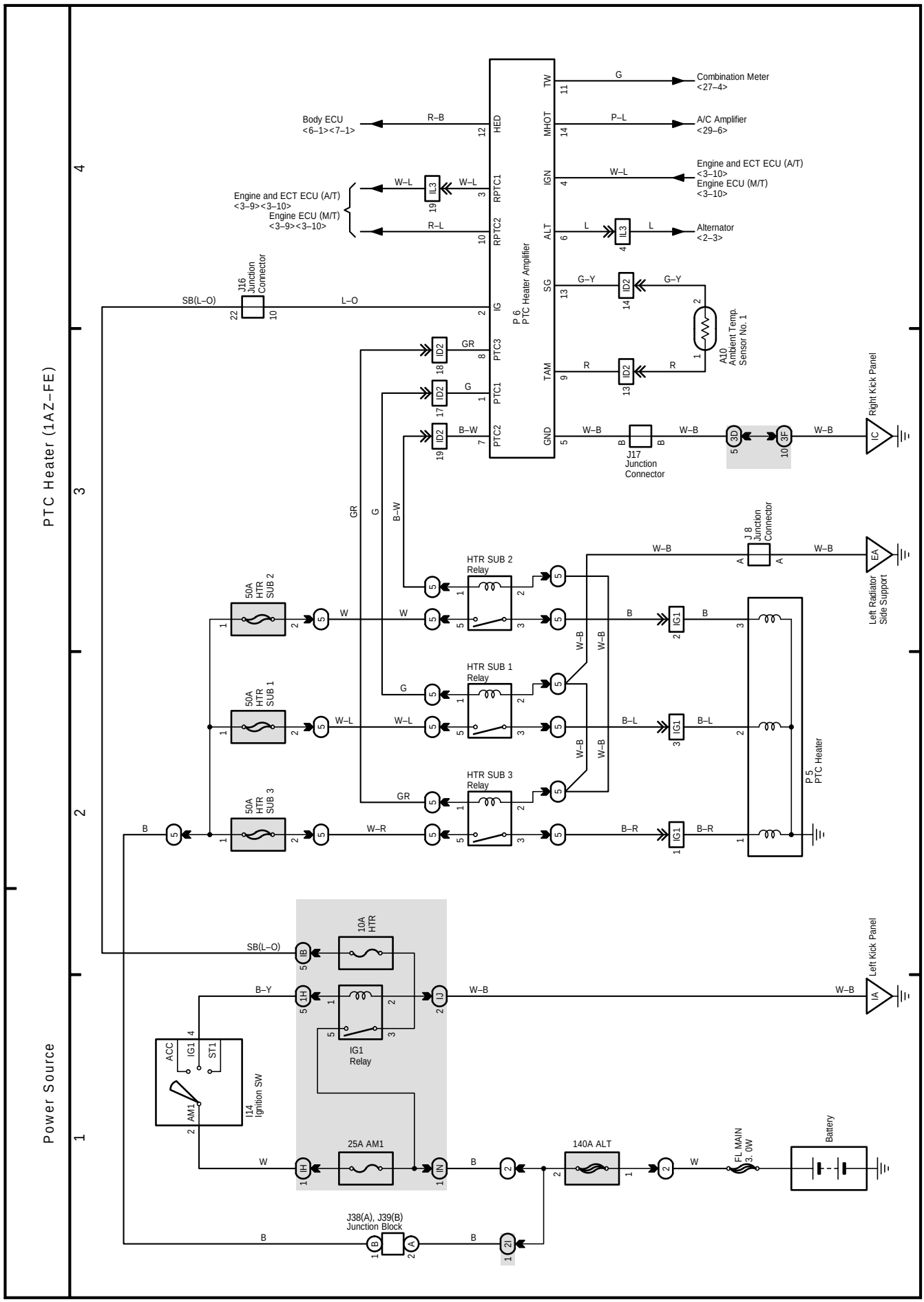
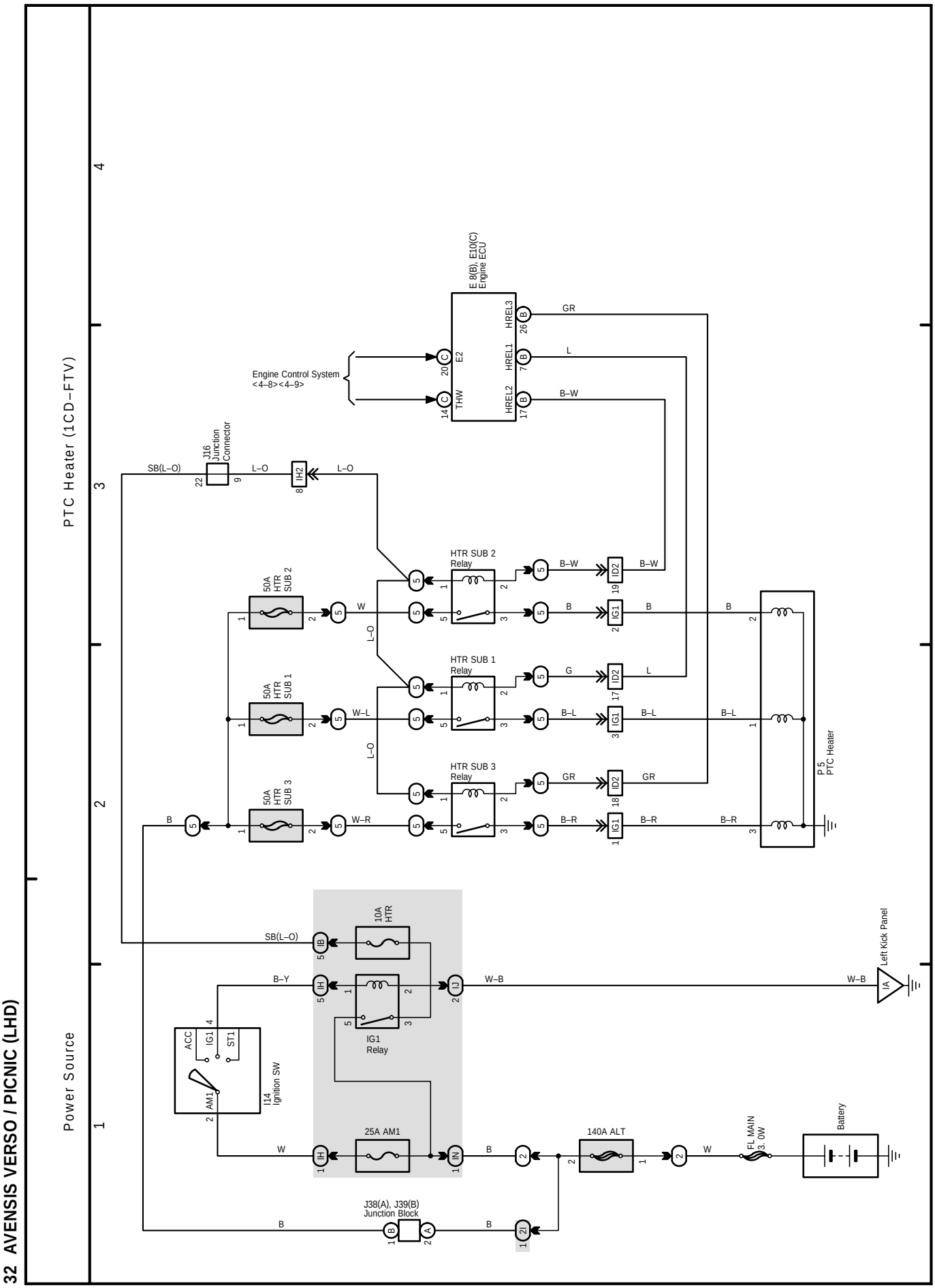
29 AVENSIS VERSO / PICNIC (LHD)
Power Source
Front Air Conditioner
* 1 : Two Way Flow Heater
* 2 : Except Two Way Flow Heater
J16 Junction Connector
S16(A), S17(B) Short Connector
B 6 Blower Relay (HI)
B 8 Blower Relay (M2)
B 7 Blower Relay (M1)
B 9(A), (B) Blower Resistor
B 5(A), (B) Blower Motor
HTR Relay
10A HTR
7. 5A GAUGE
IG1 Relay
25A AM1
I14 Ignition SW
50A HTR
140A ALT
7. 5A ECU–B
30A DCC
FL MAIN 3. 0W
Battery
Right Kick Panel
Left Kick Panel
Left Radiator Side Support
J8 Junction Connector

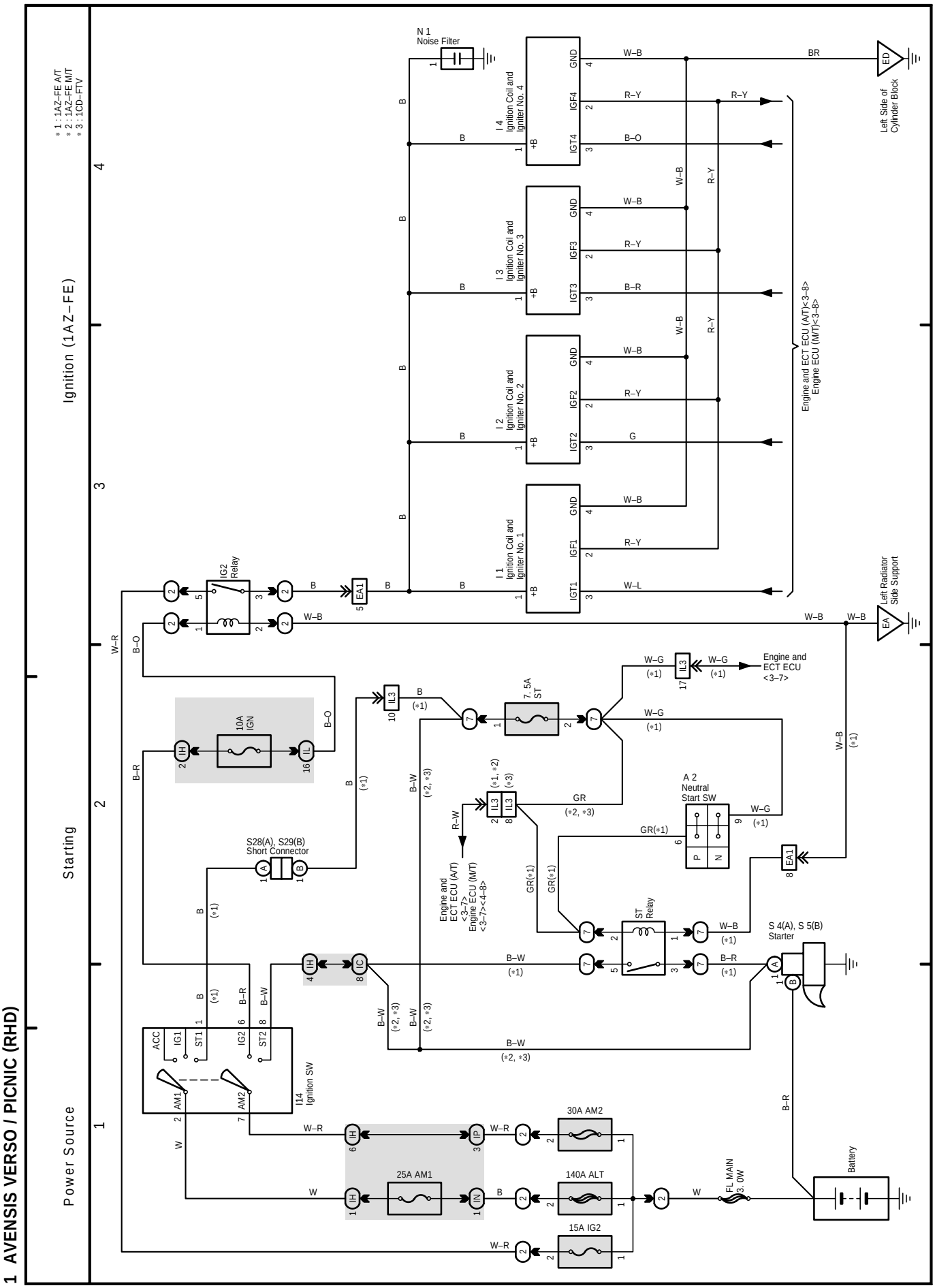
29 AVENSIS VERSO / PICNIC (LHD) (Cont' d)

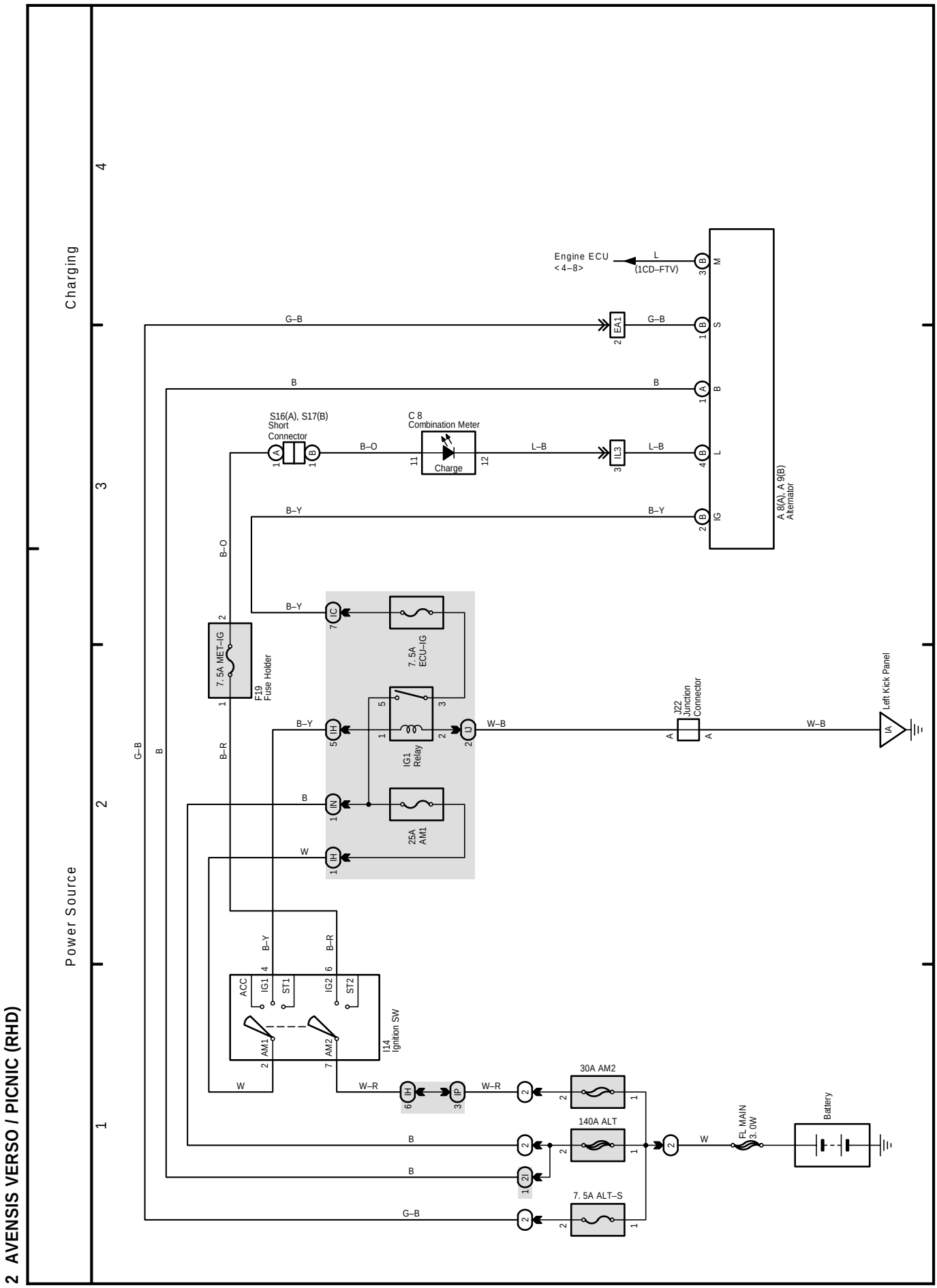


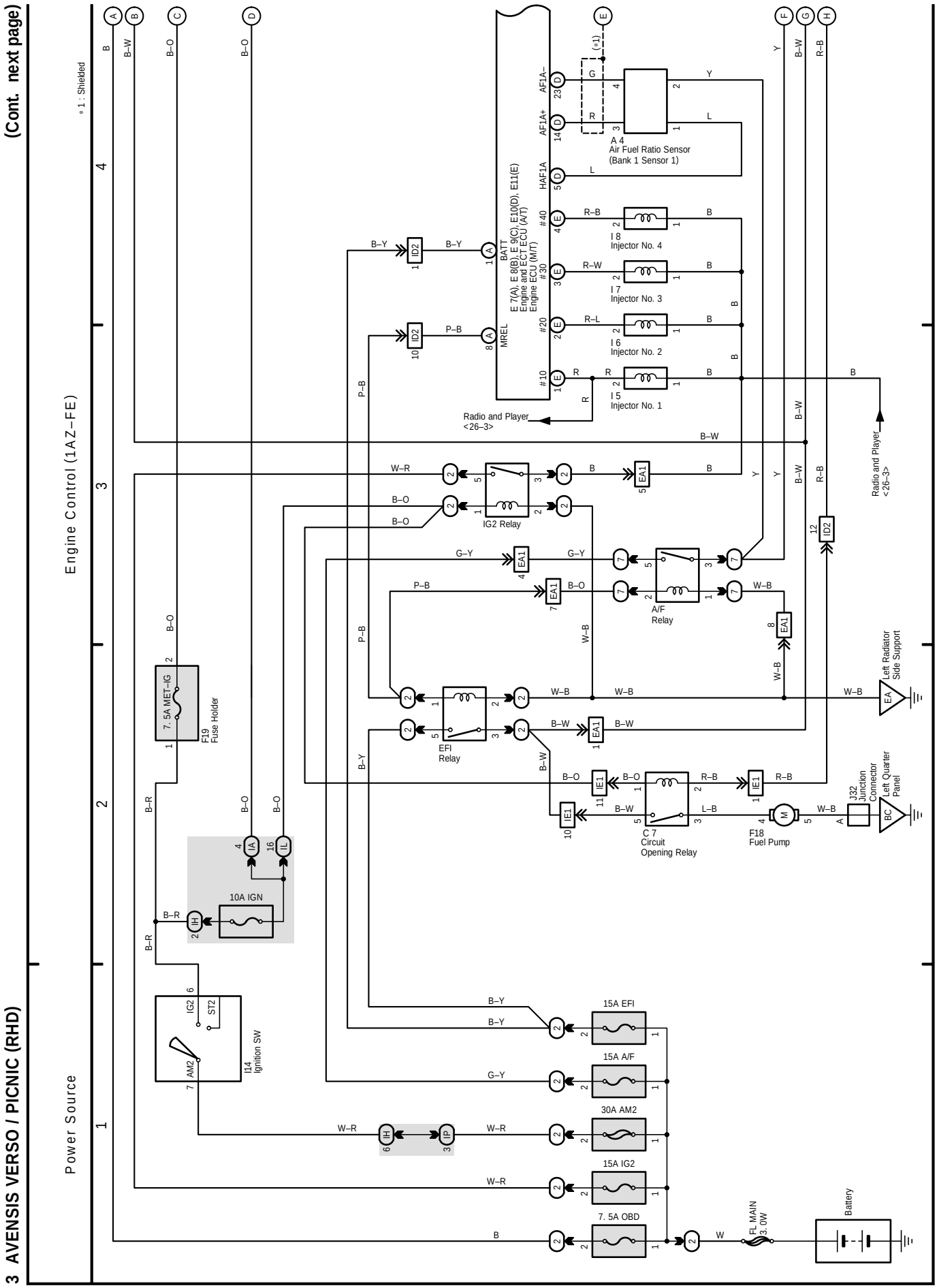

30 AVENSIS VERSO / PICNIC (LHD)
Power Source
Rear Cooler
Rear Heater
R10 Rear Heater Relay (HI)
R 9 Rear Heater Relay
D 5 Diode
R 8 Rear Heater Blower Motor
R11 Rear Heater SW
R18 Rear Cooler Relay
R13 Rear Blower Motor
R20 Rear Cooler SW
R19 Rear Cooler Resistor
H15 Heater Control Panel
J16 Junction Connector
J 4 Junction Connector
J22 Junction Connector
J35 Junction Connector
I14 Ignition SW
IG1 Relay
10A HTR
7. 5A GAUGE
25A AM1
10A RR HTR
140A ALT
30A DCC
7. 5A ECU–B
30A RR CLR
FL MAIN 3. 0W
Battery
Right Kick Panel
Right Quarter Panel
Front Side of the Right Quarter Panel
Left Kick Panel
* 1 : w/o Moon Roof
* 2 : w/ Moon Roof


31 AVENSIS VERSO / PICNIC (LHD)
PTC Heater (1AZ–FE)
Power Source
Body ECU
<6–1><7–1>
R–B
HED
Engine and ECT ECU (A/T)
<3–9><3–10>
Engine ECU (M/T)
<3–9><3–10>
W–L
IL3
RPTC1
R–L
RPTC2
P 6
PTC Heater Amplifier
IG
PTC3
PTC1
PTC2
TW
MHOT
IGN
ALT
SG
TAM
GND
Combination Meter
<27–4>
P–L
A/C Amplifier
<29–6>
Engine and ECT ECU (A/T)
<3–10>
Engine ECU (M/T)
<3–10>
L
Alternator
<2–3>
G–Y
ID2
A10
Ambient Temp.
Sensor No. 1
R
J16
Junction
Connector
SB(L–O)
L–O
GR
G
B–W
B–R
J17
Junction
Connector
W–B
3D
3F
IC
Right Kick Panel
J8
Junction
Connector
EA
Left Radiator
Side Support
HTR SUB 2
Relay
HTR SUB 1
Relay
HTR SUB 3
Relay
50A
HTR
SUB 2
50A
HTR
SUB 1
50A
HTR
SUB 3
W
W–L
W–R
B
B–L
B–R
IG1
P 5
PTC Heater
10A
HTR
IB
1H
1J
IG1
Relay
I14
Ignition SW
ACC
IG1
ST1
AM1
25A AM1
1N
2
140A ALT
FL MAIN
3. 0W
Battery
IA
Left Kick Panel
J38(A), J39(B)
Junction Block
1B
2A
2I


32 AVENSIS VERSO / PICNIC (LHD)
Power Source
PTC Heater (1CD–FTV)
1
2
3
4
E 8(B), E10(C)
Engine ECU
HREL3
HREL1
HREL2
E2
THW
GR
L
B–W
Engine Control System
<4–8><4–9>
J16
Junction
Connector
SB(L–O)
L–O
IH2
HTR SUB 2
Relay
HTR SUB 1
Relay
HTR SUB 3
Relay
50A
HTR
SUB 2
50A
HTR
SUB 1
50A
HTR
SUB 3
W
W–L
W–R
B
B–L
B–R
G
ID2
IG1
P5
PTC Heater
10A
HTR
IB
IH
IJ
IG1
Relay
B–Y
W–B
IA
Left Kick Panel
ACC
IG1
ST1
AM1
I14
Ignition SW
25A AM1
IN
140A ALT
FL MAIN
3.0W
Battery
J38(A), J39(B)
Junction Block

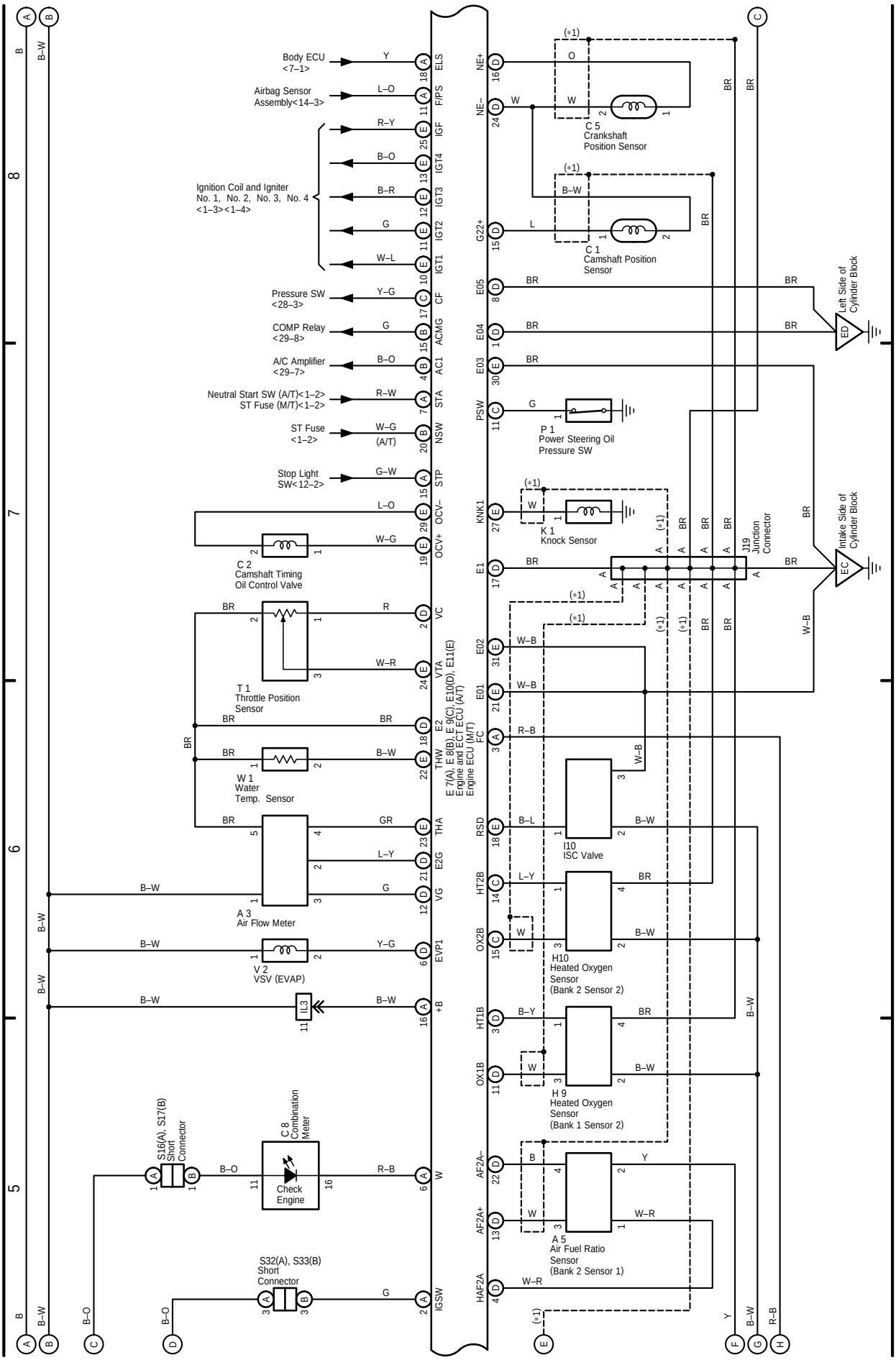

1 AVENSIS VERSO / PICNIC (RHD)
Power Source
Starting
Ignition (1AZ–FE)
1
2
3
4
*1 : 1AZ–FE A/T
*2 : 1AZ–FE M/T
*3 : 1CD–FTV
N 1
Noise Filter
I 4
Ignition Coil and Igniter No. 4
I 3
Ignition Coil and Igniter No. 3
I 2
Ignition Coil and Igniter No. 2
I 1
Ignition Coil and Igniter No. 1
GND
IGF4
IGT4
IGF3
IGT3
IGF2
IGT2
IGF1
IGT1
+B
W–B
BR
R–Y
B–O
B–R
G
W–L
ED
Left Side of Cylinder Block
Engine and ECT ECU (A/T)<3–8>
Engine ECU (M/T)<3–8>
IG2 Relay
EA1
EA
Left Radiator Side Support
10A IGN
7. 5A ST
IL3
Engine and ECT ECU <3–7>
S28(A), S29(B) Short Connector
A 2 Neutral Start SW
P
N
ST Relay
S 4(A), S 5(B) Starter
I14 Ignition SW
ACC
IG1
ST1
IG2
ST2
AM1
AM2
30A AM2
25A AM1
140A ALT
15A IG2
FL MAIN
3. 0W
Battery
Engine and ECT ECU (A/T) <3–7> Engine ECU (M/T) <3–7><4–8>

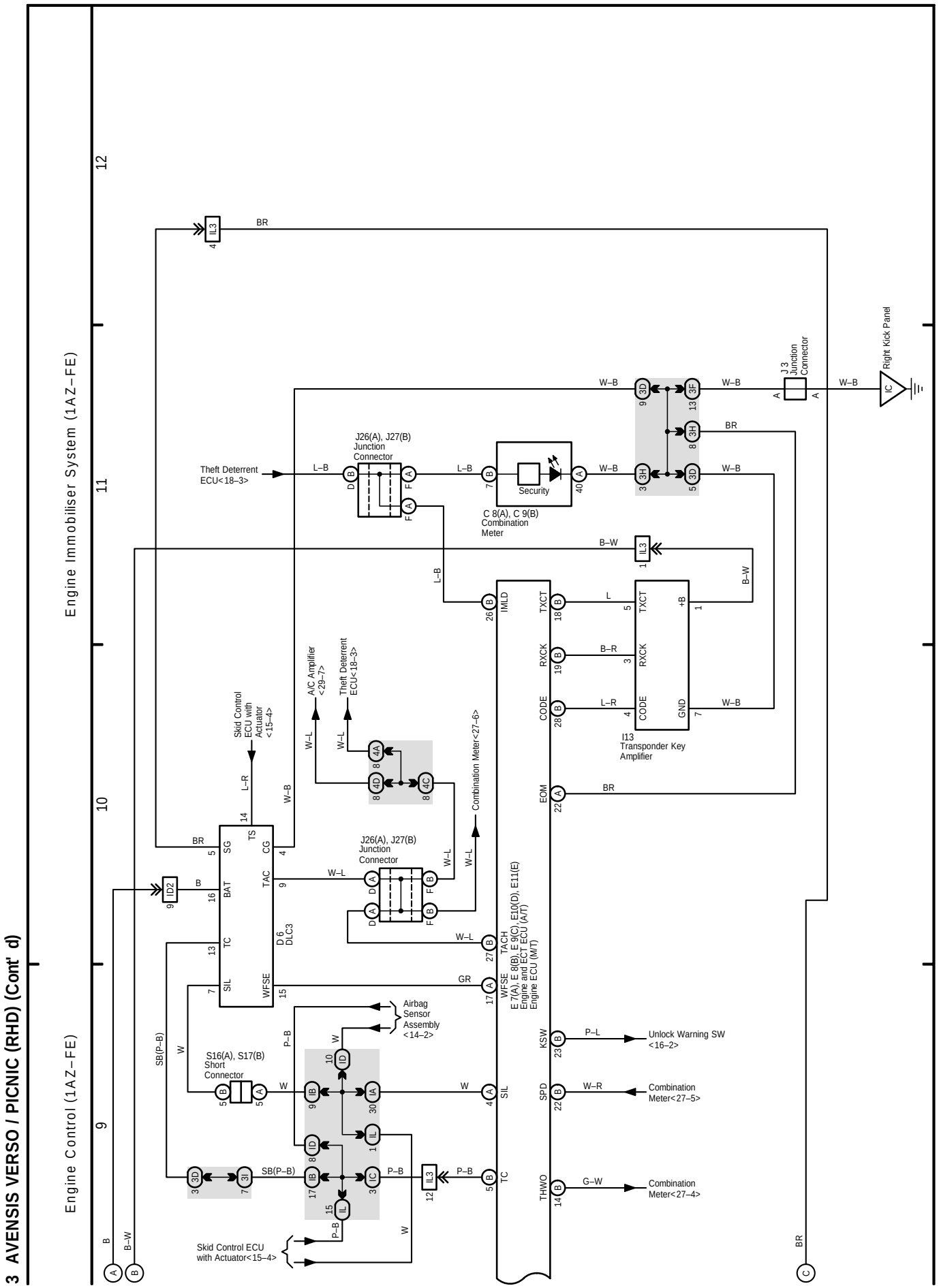

2 AVENSIS VERSO / PICNIC (RHD)
Power Source
Charging
1
2
3
4
Engine ECU
< 4–8 >
L
(1CD–FTV)
A 8(A), A 9(B)
Alternator
S16(A), S17(B)
Short
Connector
C 8
Combination Meter
Charge
B–O
L–B
G–B
B
B–Y
B–R
W
W–B
W–R
7. 5A MET–IG
F19
Fuse Holder
7. 5A
ECU–IG
IG1
Relay
25A
AM1
J22
Junction
Connector
Left Kick Panel
I14
Ignition SW
ACC
IG1
ST1
IG2
ST2
AM1
AM2
30A AM2
140A ALT
7. 5A ALT–S
FL MAIN
3. 0W
Battery

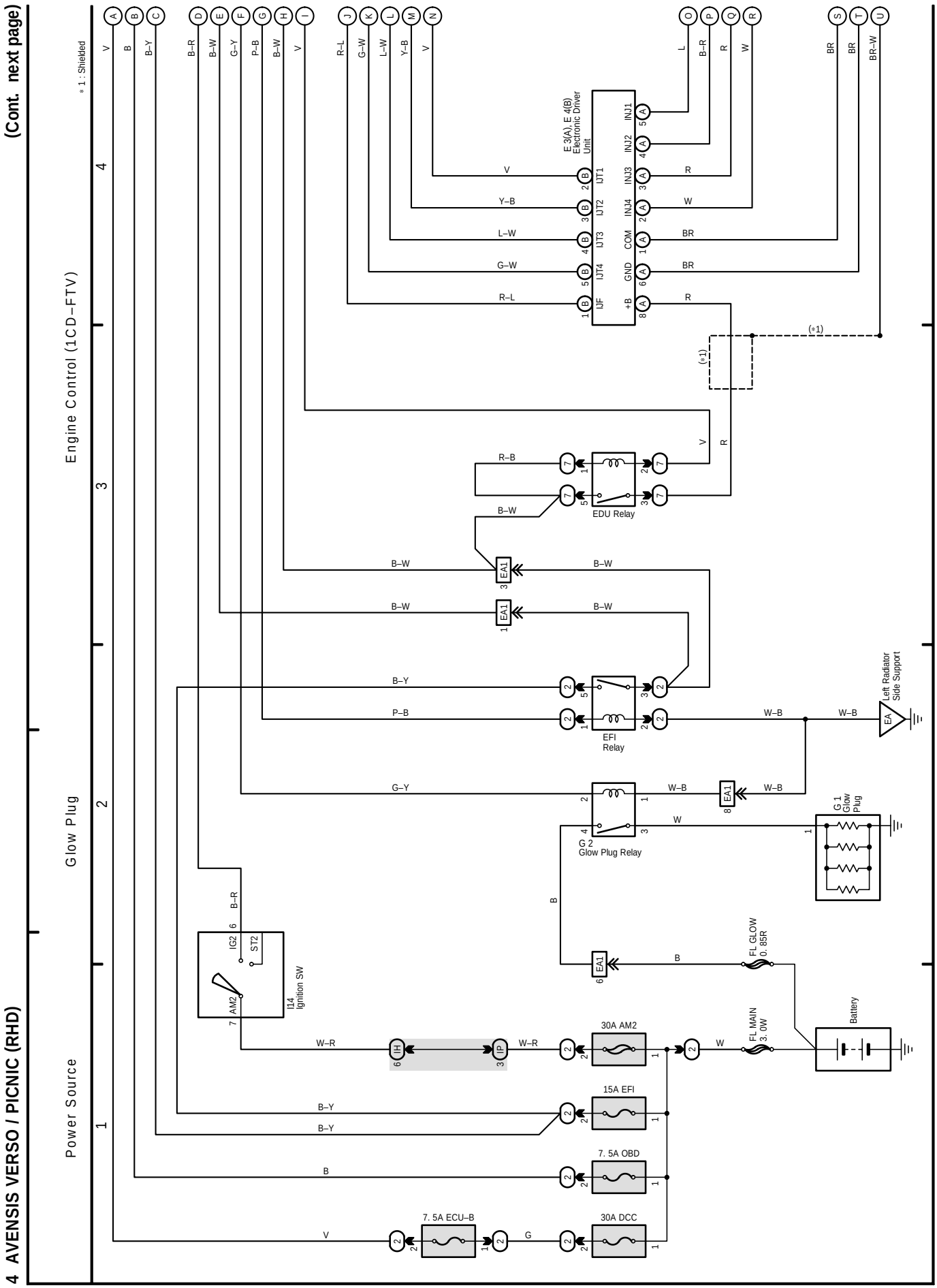

(Cont. next page)
3 AVENSIS VERSO / PICNIC (RHD)
Power Source
Engine Control (1AZ–FE)
* 1 : Shielded
A 4
Air Fuel Ratio Sensor
(Bank 1 Sensor 1)
I 8
Injector No. 4
I 7
Injector No. 3
I 6
Injector No. 2
I 5
Injector No. 1
BATT
E 7(A), E 8(B), E 9(C), E10(D), E11(E)
Engine and ECT ECU (A/T)
Engine ECU (M/T)
MREL
Radio and Player
<26–3>
IG2 Relay
A/F
Relay
EFI
Relay
C 7
Circuit
Opening Relay
F18
Fuel Pump
J32
Junction
Connector
Left Quarter
Panel
Left Radiator
Side Support
F19
Fuse Holder
7. 5A MET–IG
10A IGN
I14
Ignition SW
15A EFI
15A A/F
30A AM2
15A IG2
7. 5A OBD
FL MAIN
3. 0W
Battery

3 AVENSIS VERSO / PICNIC (RHD) (Cont' d)

(Cont. next page)




3 AVENSIS VERSO / PICNIC (RHD) (Cont' d)
Engine Control (1AZ–FE)
Engine Immobiliser System (1AZ–FE)
9
10
11
12
Theft Deterrent ECU<18–3>
J26(A), J27(B) Junction Connector
Security
C 8(A), C 9(B) Combination Meter
J 3 Junction Connector
Right Kick Panel
I13 Transponder Key Amplifier
A/C Amplifier <29–7>
Skid Control ECU with Actuator <15–4>
Combination Meter<27–6>
D 6 DLC3
E 7(A), E 8(B), E 9(C), E10(D), E11(E) Engine and ECT ECU (A/T) Engine ECU (M/T)
Airbag Sensor Assembly <14–2>
S16(A), S17(B) Short Connector
Unlock Warning SW <16–2>
Combination Meter<27–5>
Combination Meter<27–4>
Skid Control ECU with Actuator<15–4>


(Cont. next page)
4 AVENSIS VERSO / PICNIC (RHD)
Power Source
Glow Plug
Engine Control (1CD–FTV)
*1 : Shielded
E 3(A), E 4(B) Electronic Driver Unit
INJ1
INJ2
INJ3
INJ4
COM
GND
+B
IJT1
IJT2
IJT3
IJT4
IJF
EDU Relay
EFI Relay
G 2 Glow Plug Relay
G 1 Glow Plug
I14 Ignition SW
IG2
ST2
AM2
30A AM2
15A EFI
7. 5A OBD
7. 5A ECU–B
30A DCC
FL MAIN 3. 0W
FL GLOW 0. 85R
Battery
Left Radiator Side Support
EA
EA1
1H
2P

4 AVENSIS VERSO / PICNIC (RHD) (Cont' d)

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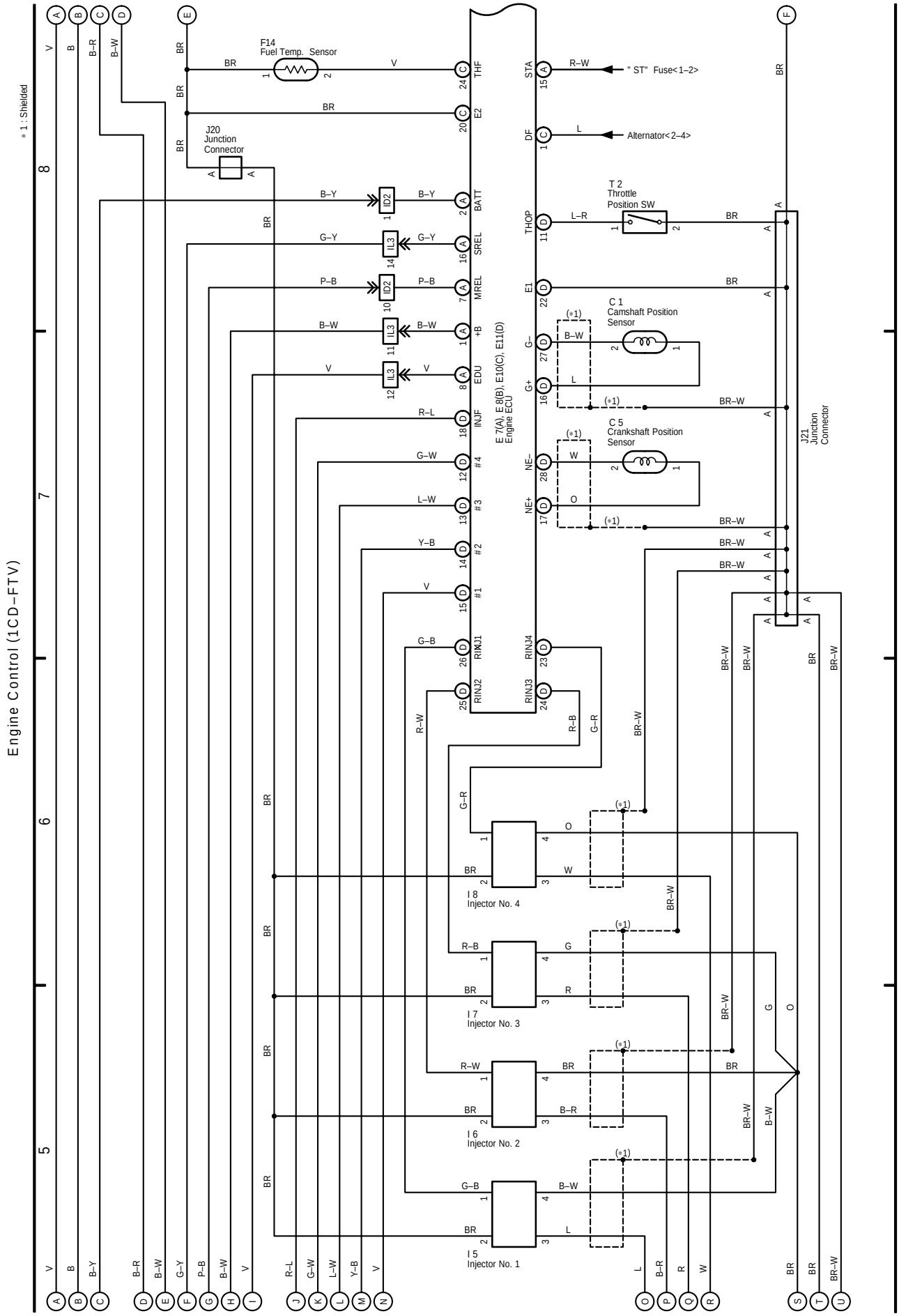
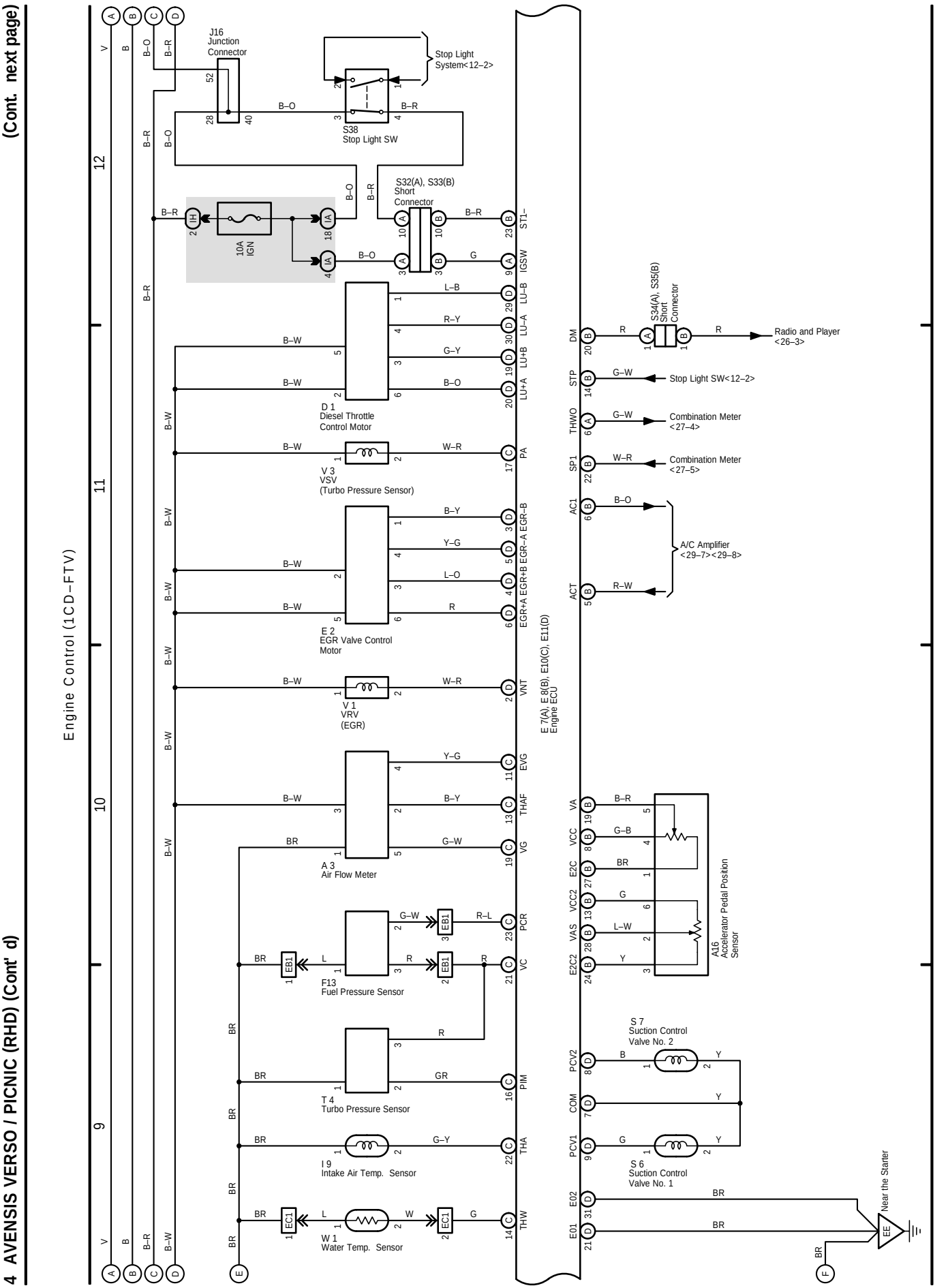
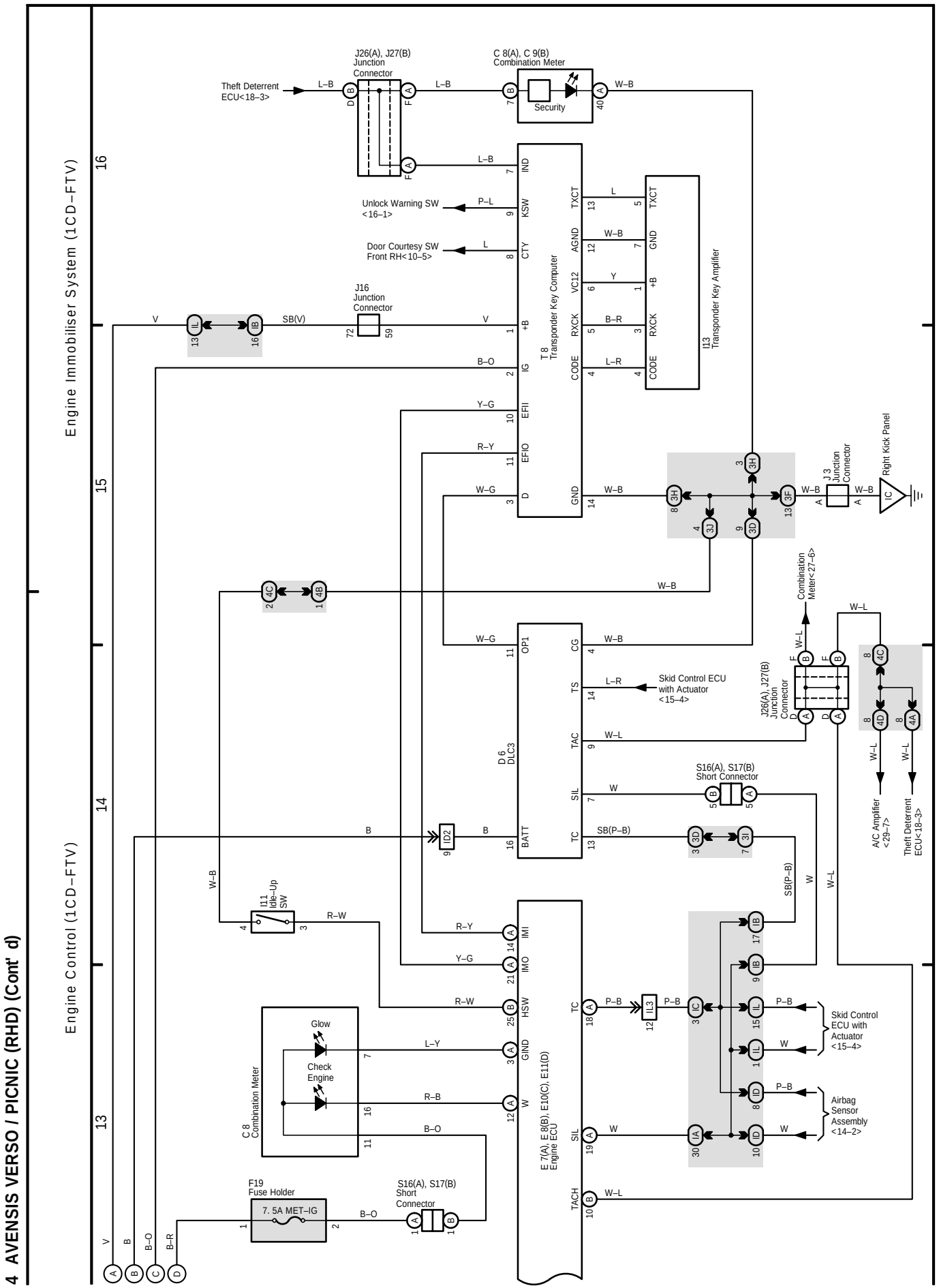
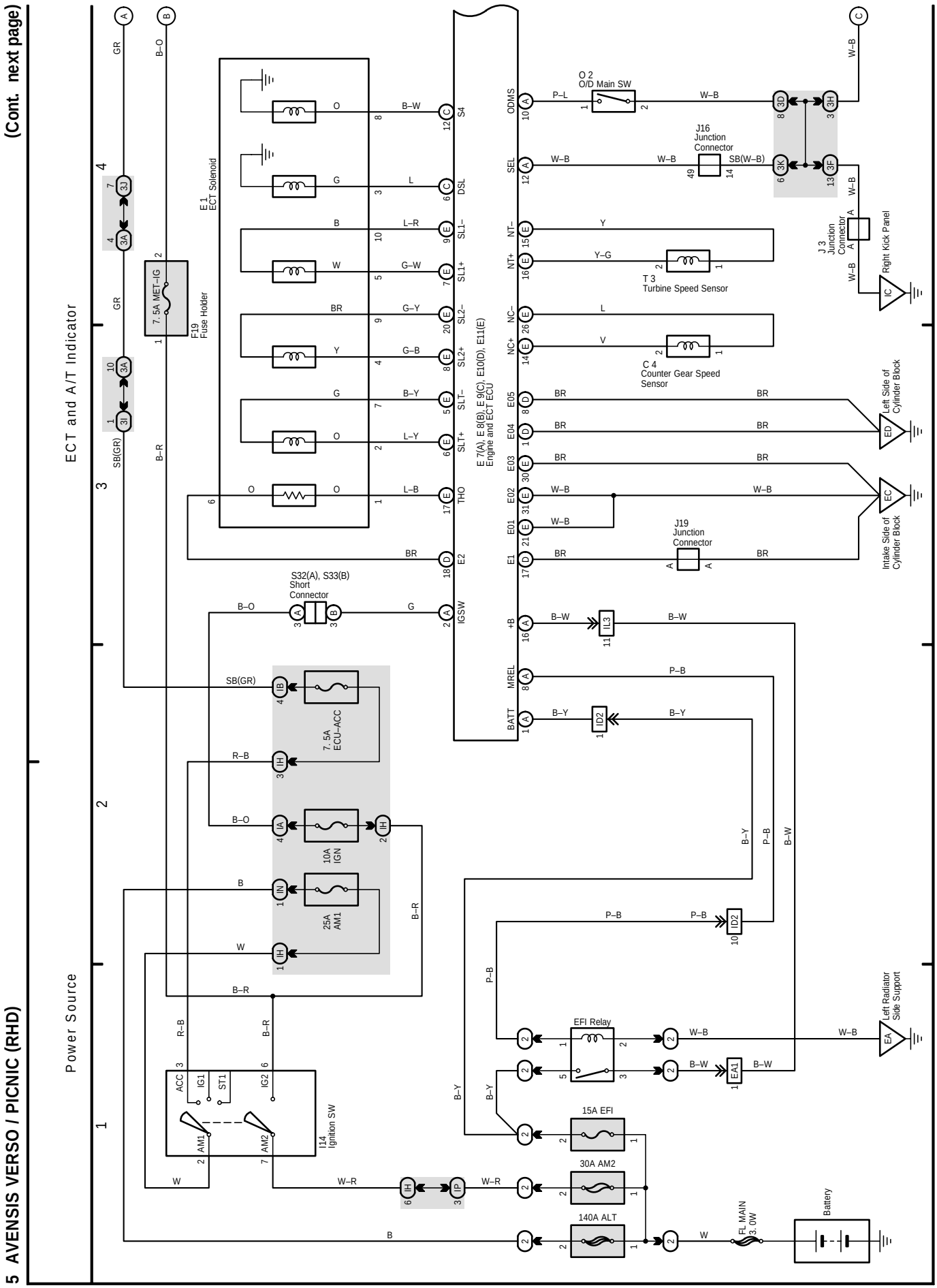
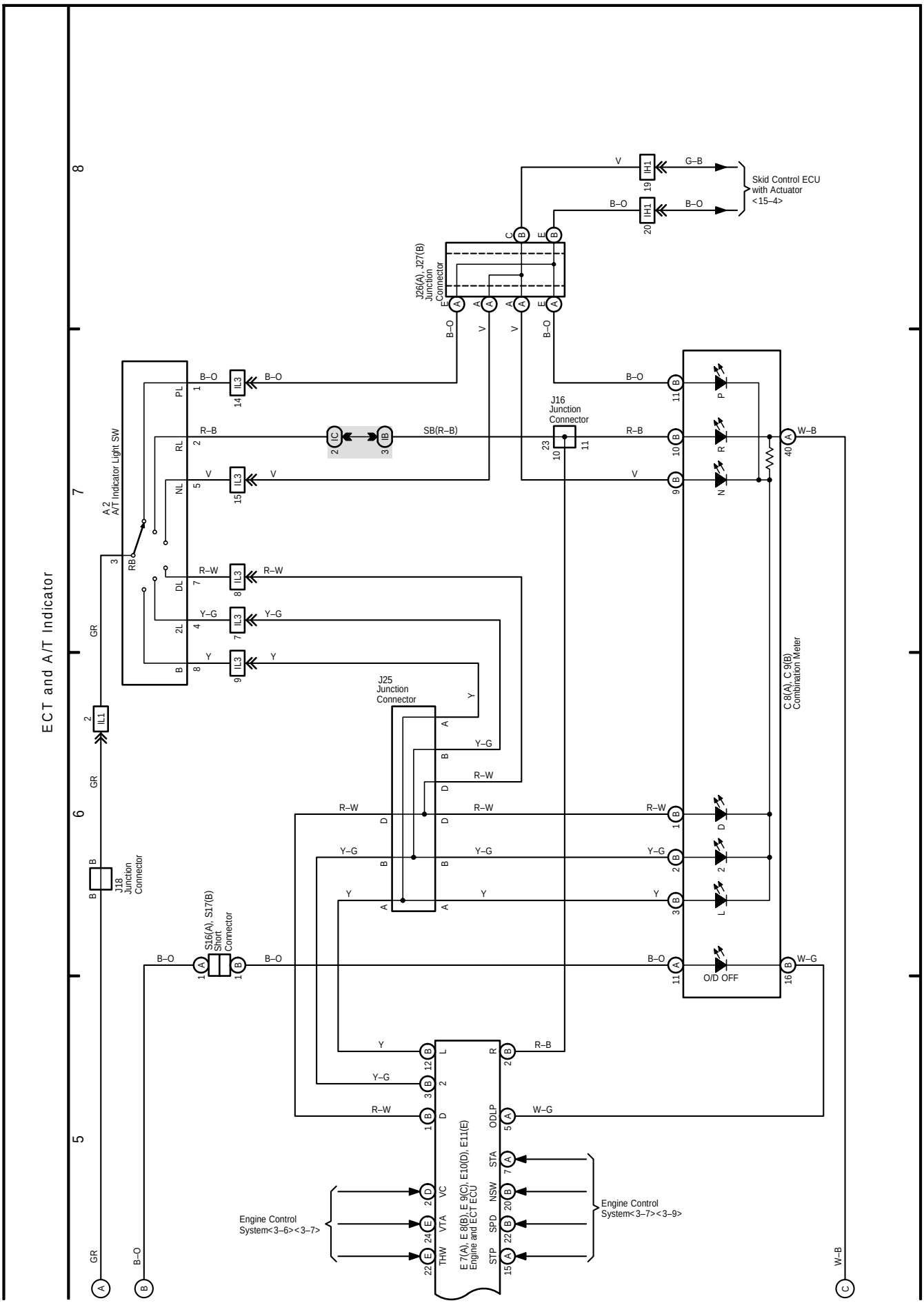


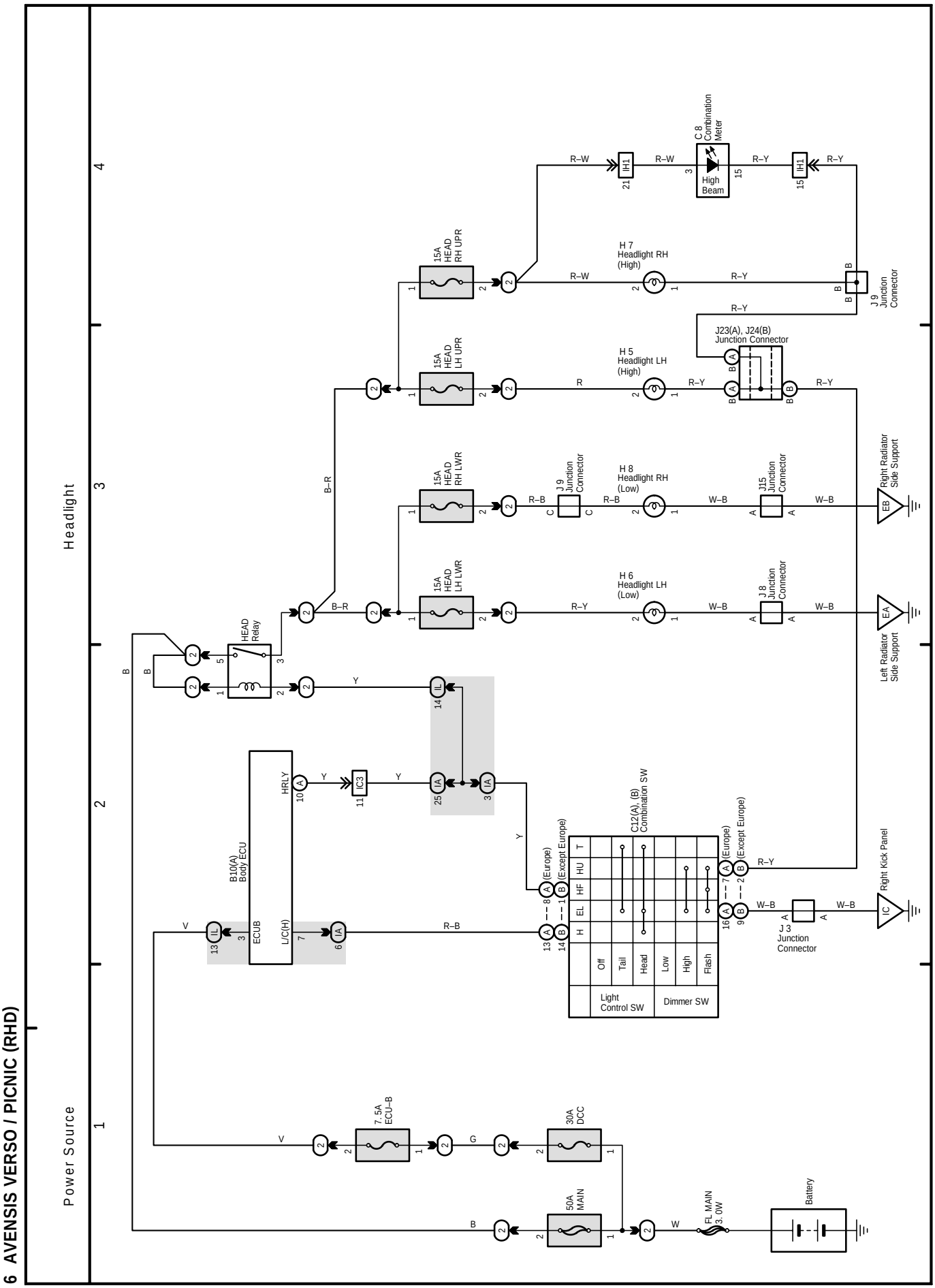

4 AVENSIS VERSO / PICNIC (RHD) (Cont' d)
(Cont. next page)
Engine Control (1CD–FTV)
J16 Junction Connector
Stop Light System<12–2>
S38 Stop Light SW
S32(A), S33(B) Short Connector
10A IGN
D 1 Diesel Throttle Control Motor
V 3 VSV (Turbo Pressure Sensor)
E 2 EGR Valve Control Motor
V 1 VRV (EGR)
A 3 Air Flow Meter
F13 Fuel Pressure Sensor
T 4 Turbo Pressure Sensor
I 9 Intake Air Temp. Sensor
W 1 Water Temp. Sensor
E 7(A), E 8(B), E10(C), E11(D) Engine ECU
S34(A), S35(B) Short Connector
Radio and Player <26–3>
Stop Light SW<12–2>
Combination Meter <27–4>
Combination Meter <27–5>
A/C Amplifier <29–7><29–8>
A16 Accelerator Pedal Position Sensor
S 7 Suction Control Valve No. 2
S 6 Suction Control Valve No. 1
Near the Starter

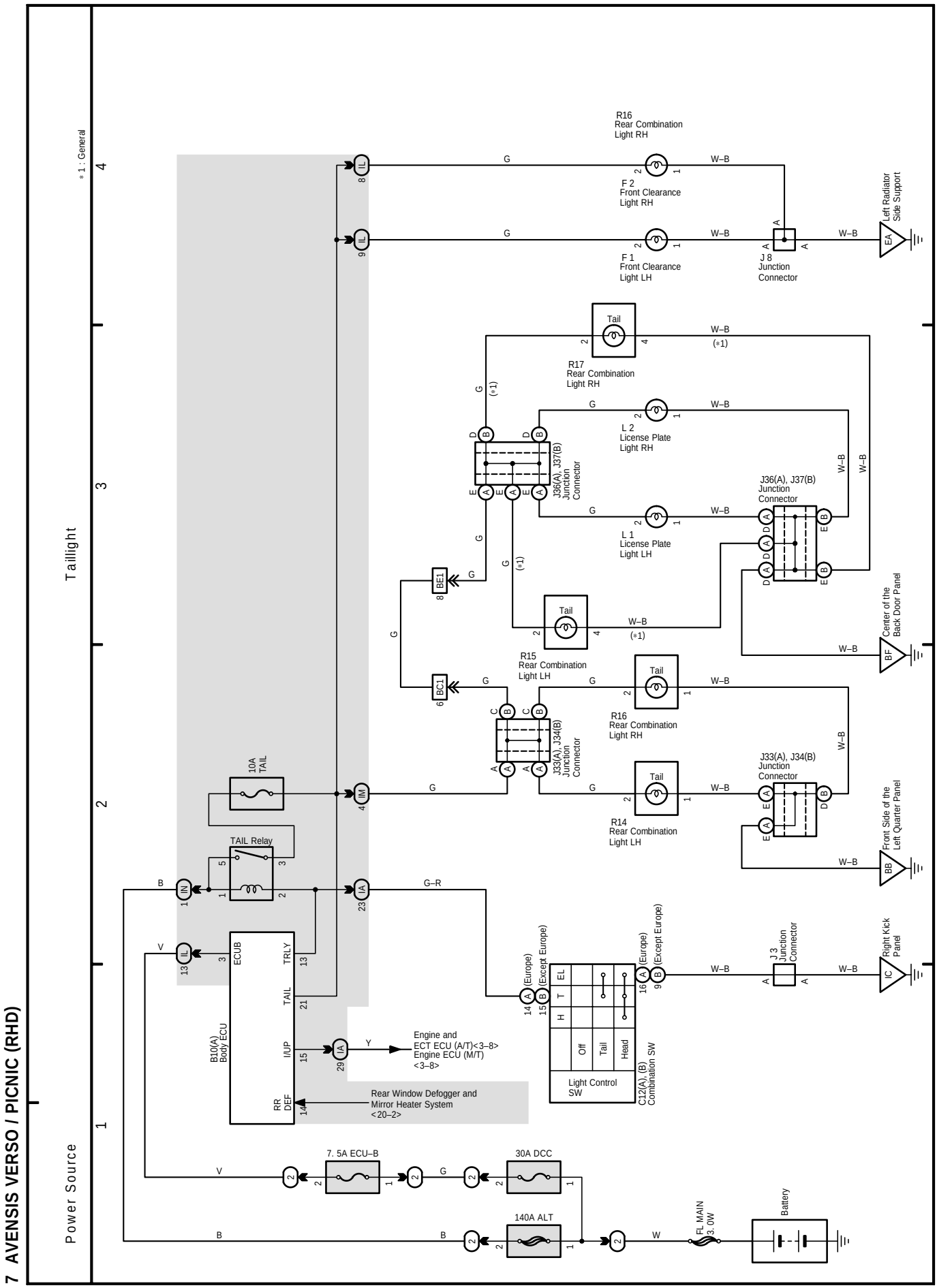

4 AVENSIS VERSO / PICNIC (RHD) (Cont' d)
Engine Control (1CD–FTV)
Engine Immobiliser System (1CD–FTV)
13
14
15
16
J26(A), J27(B) Junction Connector
C 8(A), C 9(B) Combination Meter
Theft Deterrent ECU<18–3>
Security
Unlock Warning SW <16–1>
Door Courtesy SW Front RH<10–5>
J16 Junction Connector
T 8 Transponder Key Computer
I13 Transponder Key Amplifier
J 3 Junction Connector
Right Kick Panel
Skid Control ECU with Actuator <15–4>
Combination Meter<27–6>
D 6 DLC3
S16(A), S17(B) Short Connector
I11 Idle–Up SW
A/C Amplifier <29–7>
Theft Deterrent ECU<18–3>
Glow
Check Engine
C 8 Combination Meter
E 7(A), E 8(B), E10(C), E11(D) Engine ECU
Skid Control ECU with Actuator <15–4>
Airbag Sensor Assembly <14–2>
F19 Fuse Holder
7. 5A MET–IG

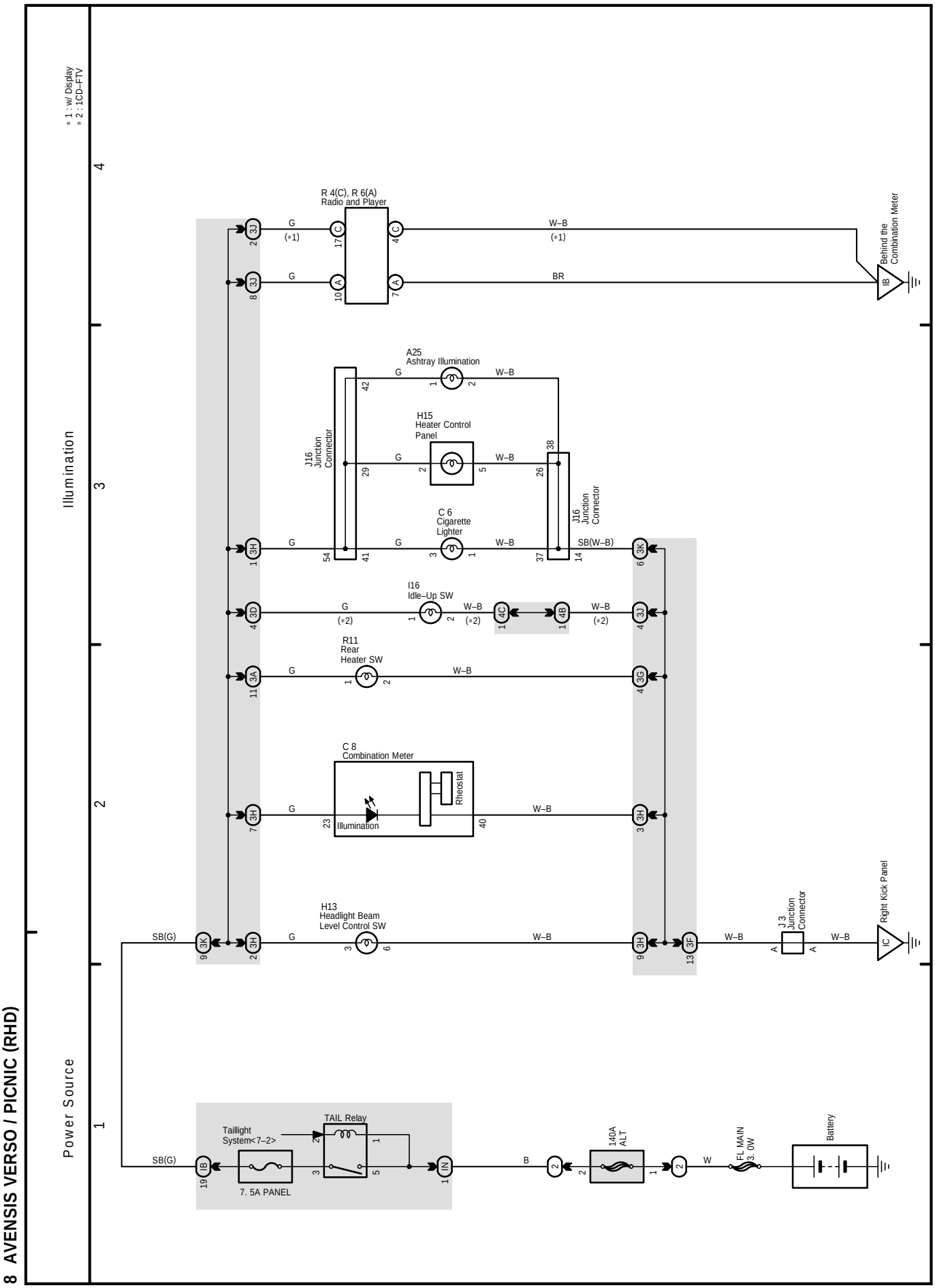

(Cont. next page)
5 AVENSIS VERSO / PICNIC (RHD)
Power Source
ECT and A/T Indicator
E 1
ECT Solenoid
E19
Fuse Holder
7. 5A MET–IG
E 7(A), E 8(B), E 9(C), E10(D), E11(E)
Engine and ECT ECU
O 2
O/D Main SW
J16
Junction
Connector
J 3
Junction
Connector
Right Kick Panel
T 3
Turbine Speed Sensor
C 4
Counter Gear Speed
Sensor
Left Side of
Cylinder Block
Intake Side of
Cylinder Block
J19
Junction
Connector
S32(A), S33(B)
Short
Connector
7. 5A
ECU–ACC
10A
IGN
25A
AM1
EFI Relay
15A EFI
30A AM2
140A ALT
I14
Ignition SW
ACC
IG1
ST1
IG2
AM1
AM2
Left Radiator
Side Support
FL MAIN
3. 0W
Battery

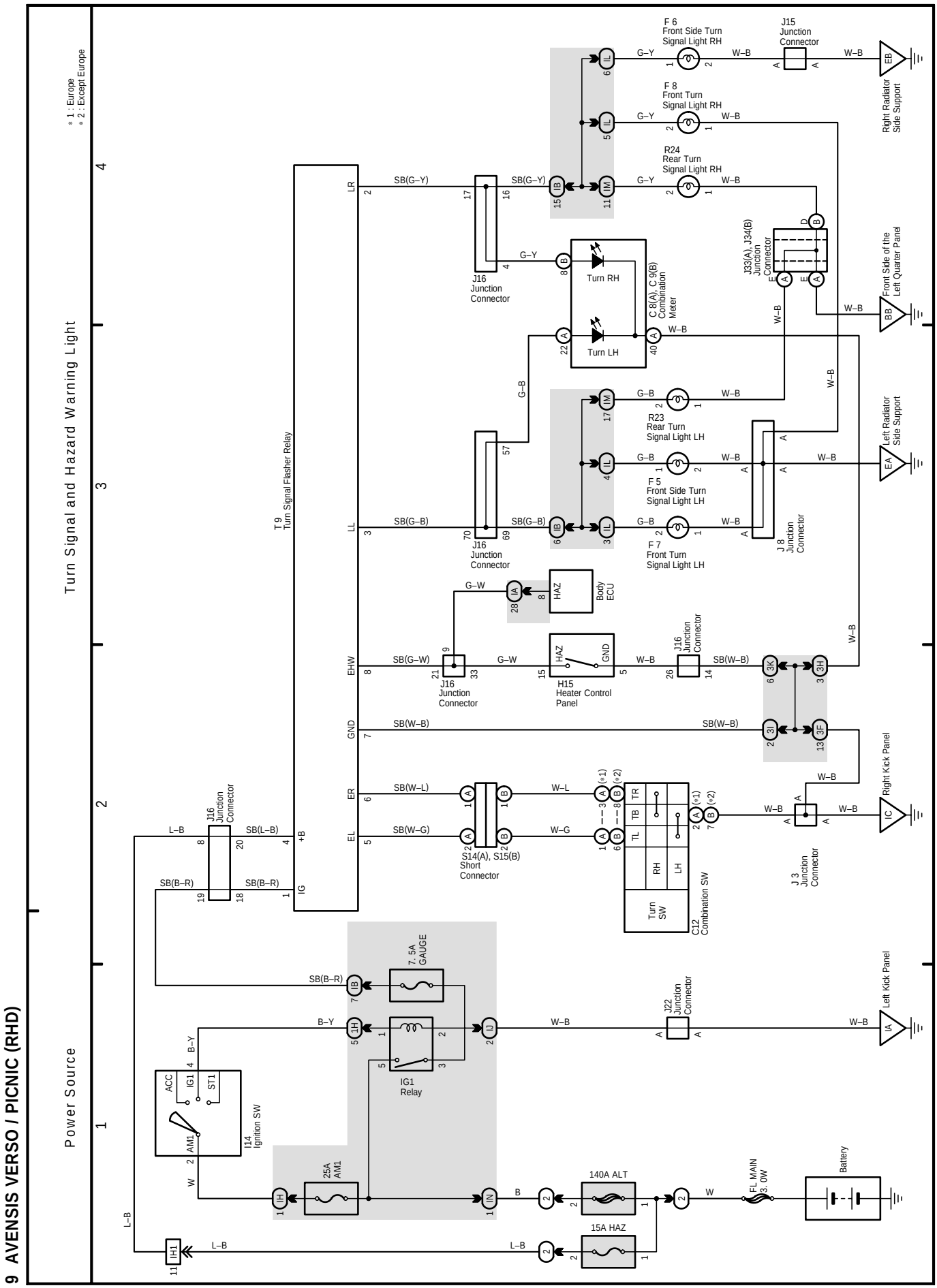
5 AVENSIS VERSO / PICNIC (RHD) (Cont' d)

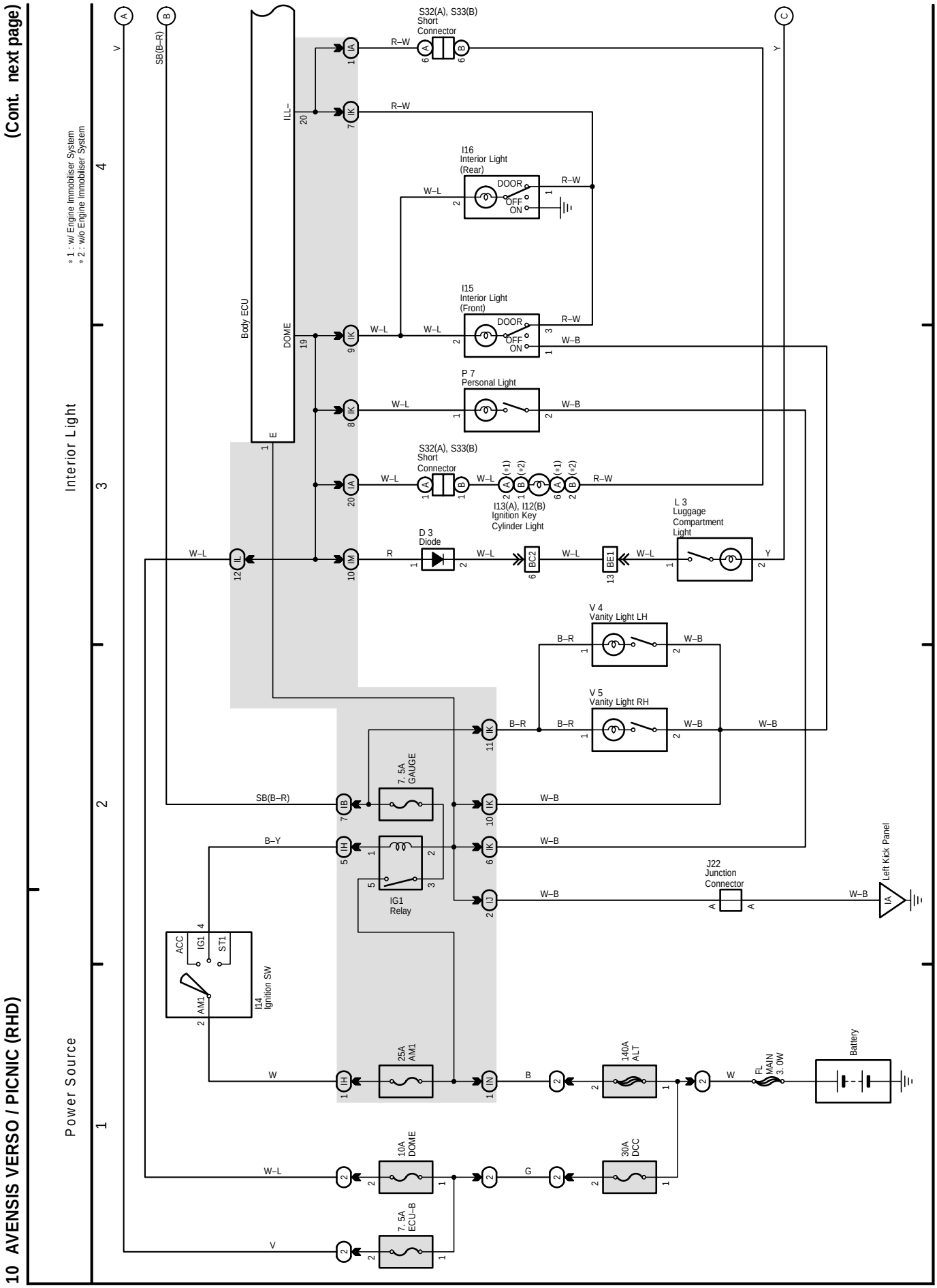


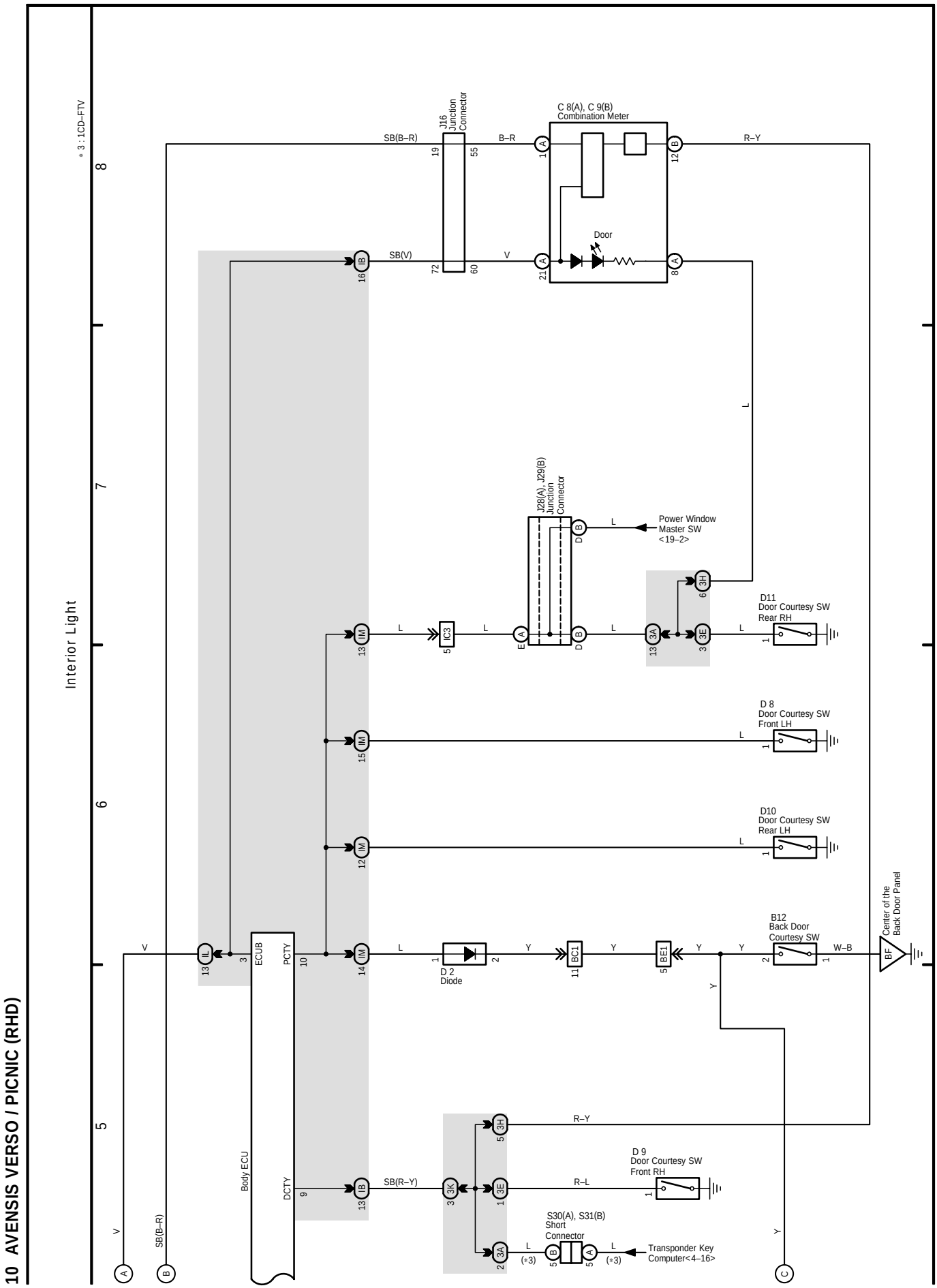

6 AVENSIS VERSO / PICNIC (RHD)
Power Source
Headlight
1
2
3
4
Battery
50A MAIN
7.5A ECU–B
30A DCC
HEAD Relay
B10(A) Body ECU
ECUB
L/C(H)
HRLY
IC3
IL
IA
15A HEAD RH UPR
15A HEAD LH UPR
15A HEAD RH LWR
15A HEAD LH LWR
H 7 Headlight RH (High)
H 5 Headlight LH (High)
H 8 Headlight RH (Low)
H 6 Headlight LH (Low)
C 8 Combination Meter
High Beam
IH1
J 9 Junction Connector
J23(A), J24(B) Junction Connector
J15 Junction Connector
J 8 Junction Connector
J 3 Junction Connector
Right Radiator Side Support
Left Radiator Side Support
Right Kick Panel
EB
EA
IC
C12(A), (B) Combination SW
Light Control SW
Dimmer SW
Off
Tail
Head
Low
High
Flash
T
HU
HF
EL
H
(Europe)
(Except Europe)
FL MAIN 3.0W
R–W
R–Y
R–B
B–R
W–B
B
V
G
W
Y
R

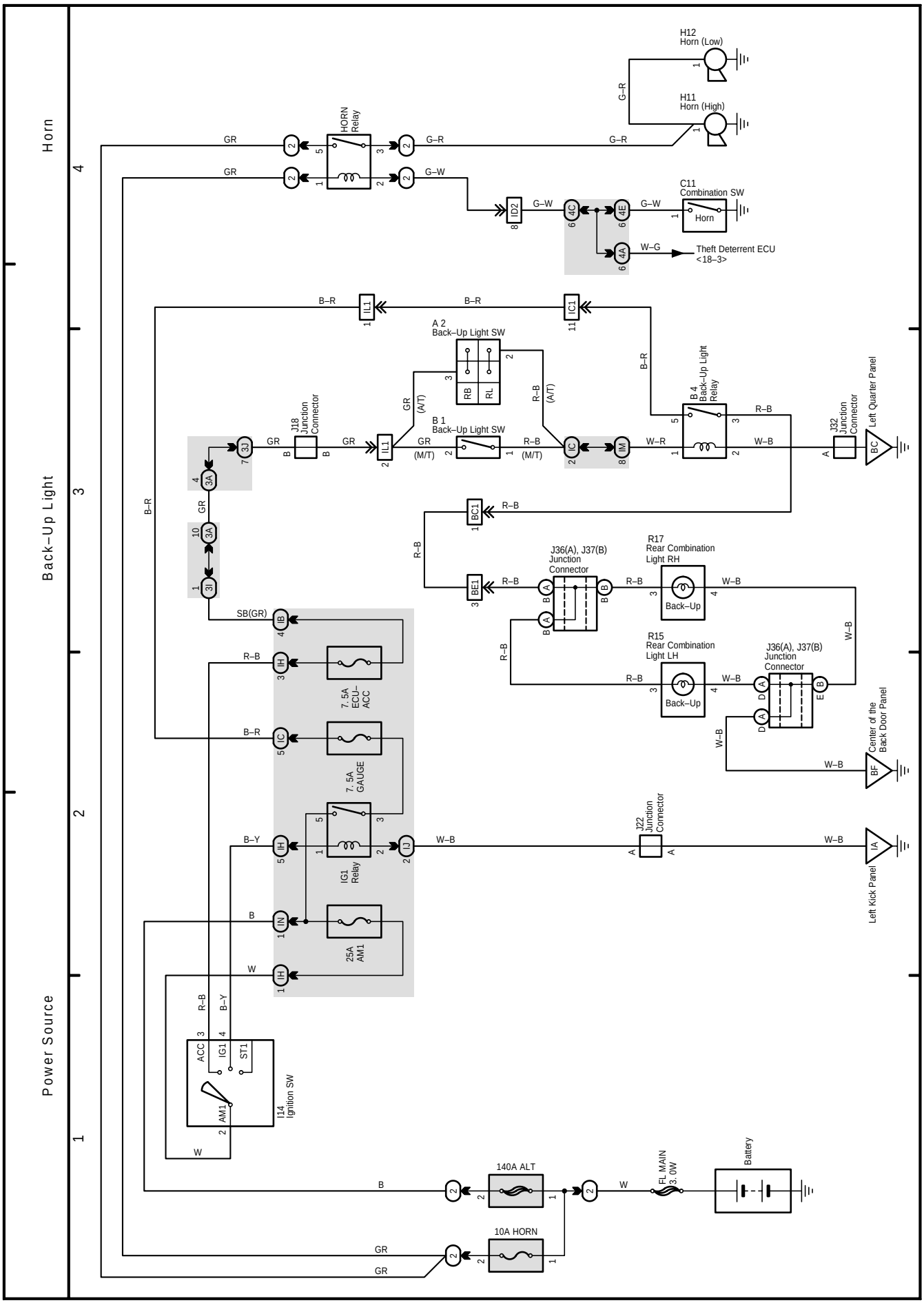

7 AVENSIS VERSO / PICNIC (RHD)
Power Source
Taillight
*1 : General
R16
Rear Combination
Light RH
F 2
Front Clearance
Light RH
F 1
Front Clearance
Light LH
J 8
Junction
Connector
Left Radiator
Side Support
Tail
R17
Rear Combination
Light RH
L 2
License Plate
Light RH
L 1
License Plate
Light LH
J36(A), J37(B)
Junction
Connector
R15
Rear Combination
Light LH
R16
Rear Combination
Light RH
J33(A), J34(B)
Junction
Connector
R14
Rear Combination
Light LH
Center of the
Back Door Panel
Front Side of the
Left Quarter Panel
10A
TAIL
TAIL Relay
B10(A)
Body ECU
ECUB
TRLY
TAIL
I/UP
RR
DEF
Engine and
ECT ECU (A/T)<3–8>
Engine ECU (M/T)
<3–8>
Rear Window Defogger and
Mirror Heater System
<20–2>
Light Control
SW
C12(A), (B)
Combination SW
J3
Junction
Connector
Right Kick
Panel
7. 5A ECU–B
30A DCC
140A ALT
FL MAIN
3. 0W
Battery

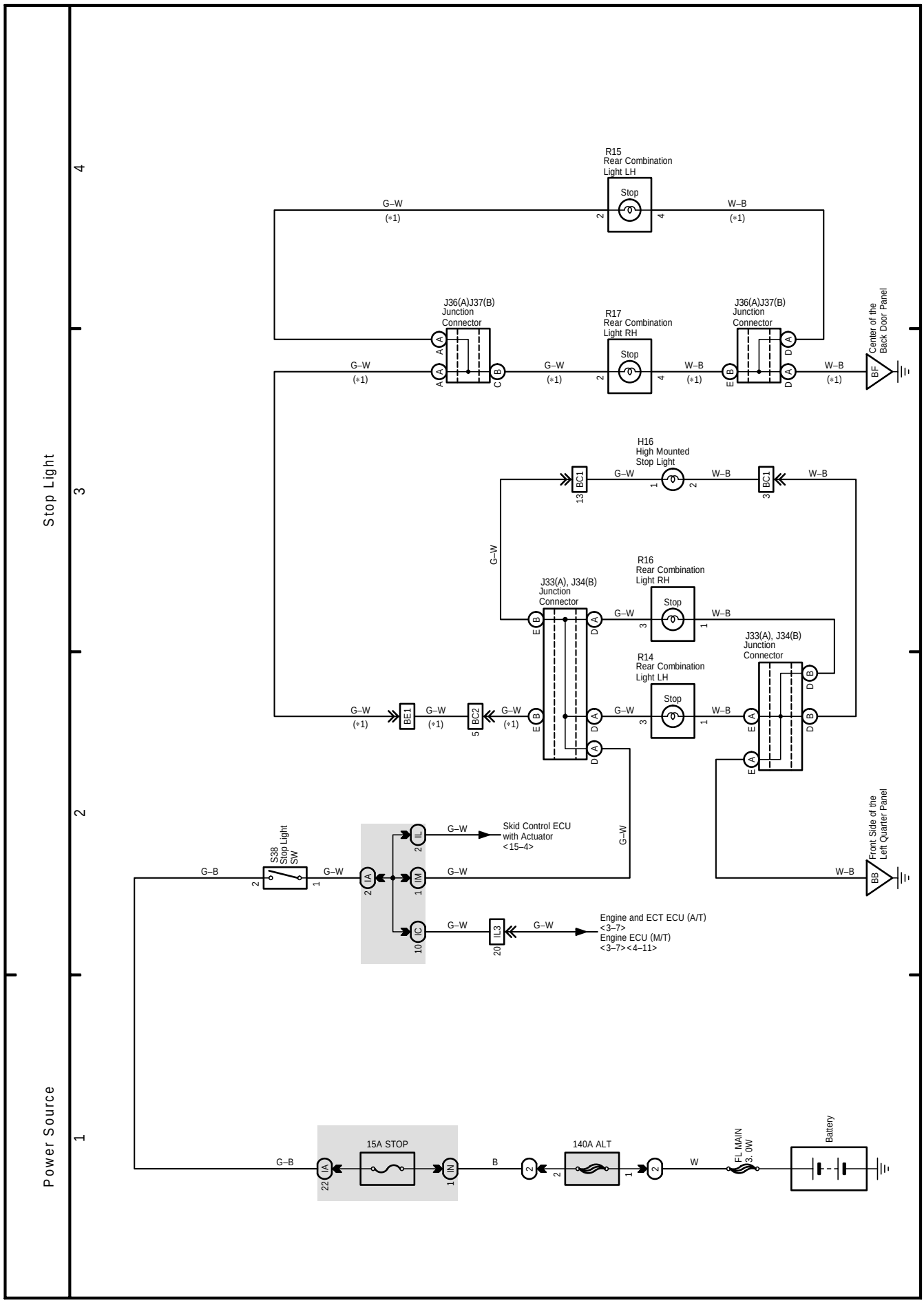

8 AVENSIS VERSO / PICNIC (RHD)
Power Source
Illumination
* 1 : w/ Display
* 2 : 1CD–FTV
R 4(C), R 6(A)
Radio and Player
Behind the Combination Meter
A25
Ashtray Illumination
H15
Heater Control Panel
J16 Junction Connector
C 6
Cigarette Lighter
I16
Idle–Up SW
R11
Rear Heater SW
C 8
Combination Meter
Rheostat
Illumination
H13
Headlight Beam Level Control SW
J 3
Junction Connector
Right Kick Panel
TAIL Relay
Taillight System<7–2>
7. 5A PANEL
140A ALT
FL MAIN 3. 0W
Battery

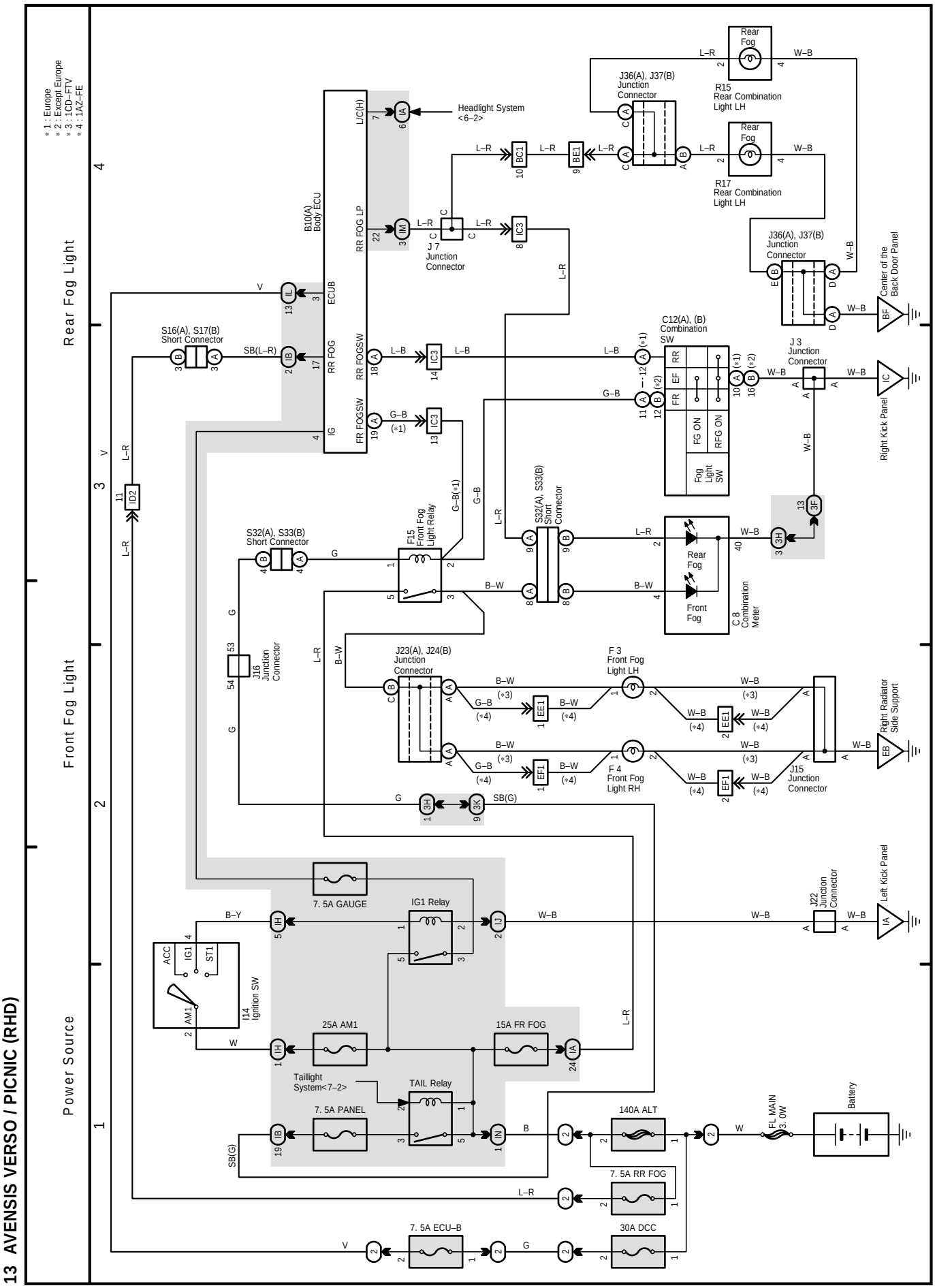

9 AVENSIS VERSO / PICNIC (RHD)
Power Source
Turn Signal and Hazard Warning Light
* 1 : Europe
* 2 : Except Europe
T 9
Turn Signal Flasher Relay
F 6
Front Side Turn Signal Light RH
F 8
Front Turn Signal Light RH
R24
Rear Turn Signal Light RH
R23
Rear Turn Signal Light LH
F 5
Front Side Turn Signal Light LH
F 7
Front Turn Signal Light LH
J15 Junction Connector
J16 Junction Connector
J8 Junction Connector
J3 Junction Connector
J22 Junction Connector
J33(A), J34(B) Junction Connector
C 8(A), C 9(B) Combination Meter
Turn RH
Turn LH
Body ECU
H15 Heater Control Panel
S14(A), S15(B) Short Connector
C12 Combination SW
Turn SW
TR
TB
TL
RH
LH
I14 Ignition SW
ACC
IG1
ST1
AM1
IG1 Relay
7. 5A GAUGE
25A AM1
140A ALT
15A HAZ
FL MAIN 3. 0W
Battery
Right Radiator Side Support
Front Side of the Left Quarter Panel
Left Radiator Side Support
Right Kick Panel
Left Kick Panel
SB(G–Y)
G–Y
W–B
SB(G–B)
G–B
G–W
SB(W–B)
SB(W–L)
W–L
SB(W–G)
W–G
SB(L–B)
L–B
SB(B–R)
B–Y
W
B
HAZ
GND
+B
IG
LR
LL
EHW
GND
ER
EL

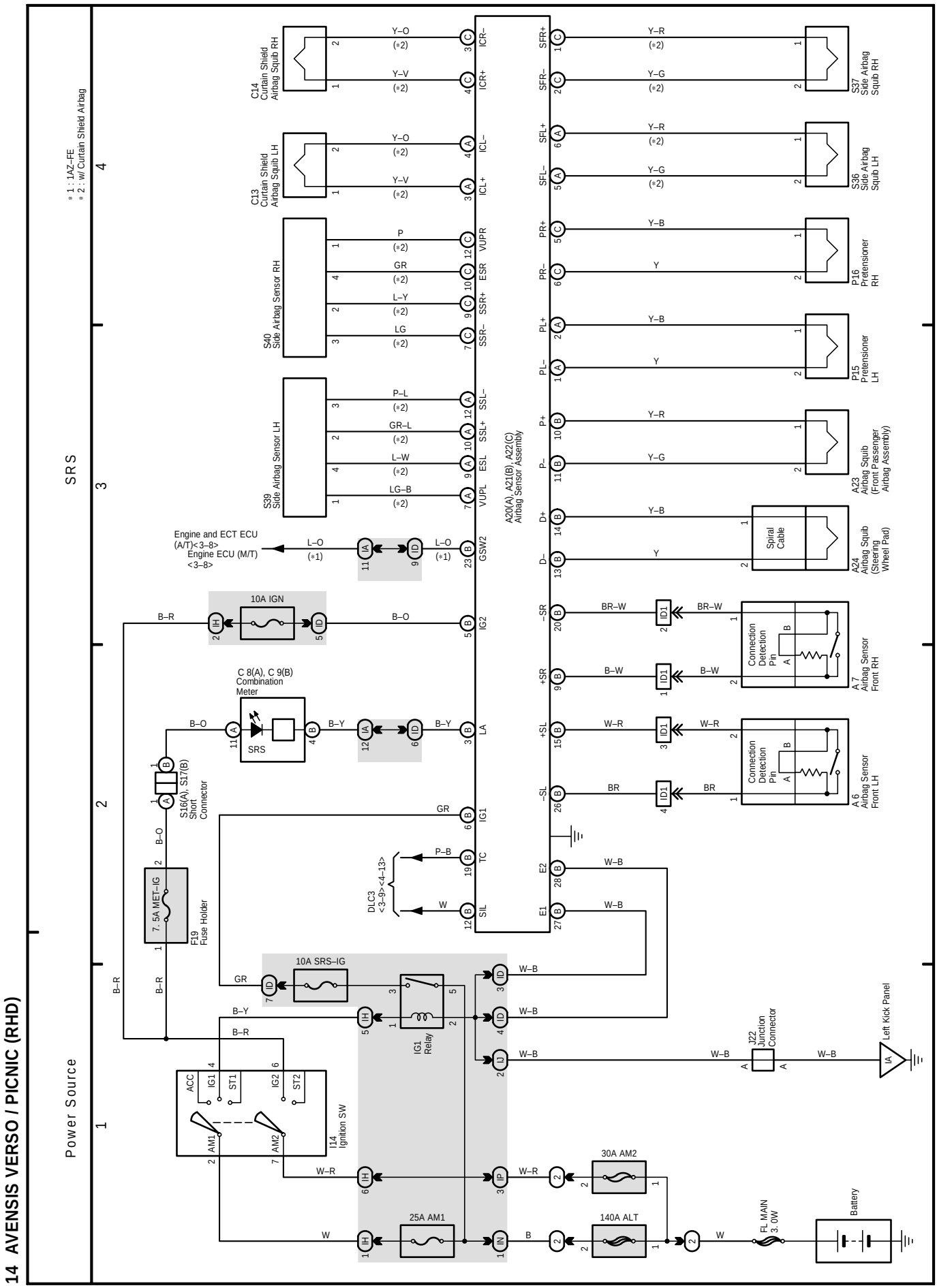

(Cont. next page)
10 AVENSIS VERSO / PICNIC (RHD)
Power Source
Interior Light
* 1 : w/ Engine Immobiliser System
* 2 : w/o Engine Immobiliser System
Body ECU
S32(A), S33(B) Short Connector
I16 Interior Light (Rear)
I15 Interior Light (Front)
P 7 Personal Light
I13(A), I12(B) Ignition Key Cylinder Light
L 3 Luggage Compartment Light
D 3 Diode
V 4 Vanity Light LH
V 5 Vanity Light RH
J22 Junction Connector
Left Kick Panel
IG1 Relay
I14 Ignition SW
7. 5A GAUGE
25A AM1
140A ALT
10A DOME
30A DCC
7. 5A ECU–B
FL MAIN 3. 0W
Battery

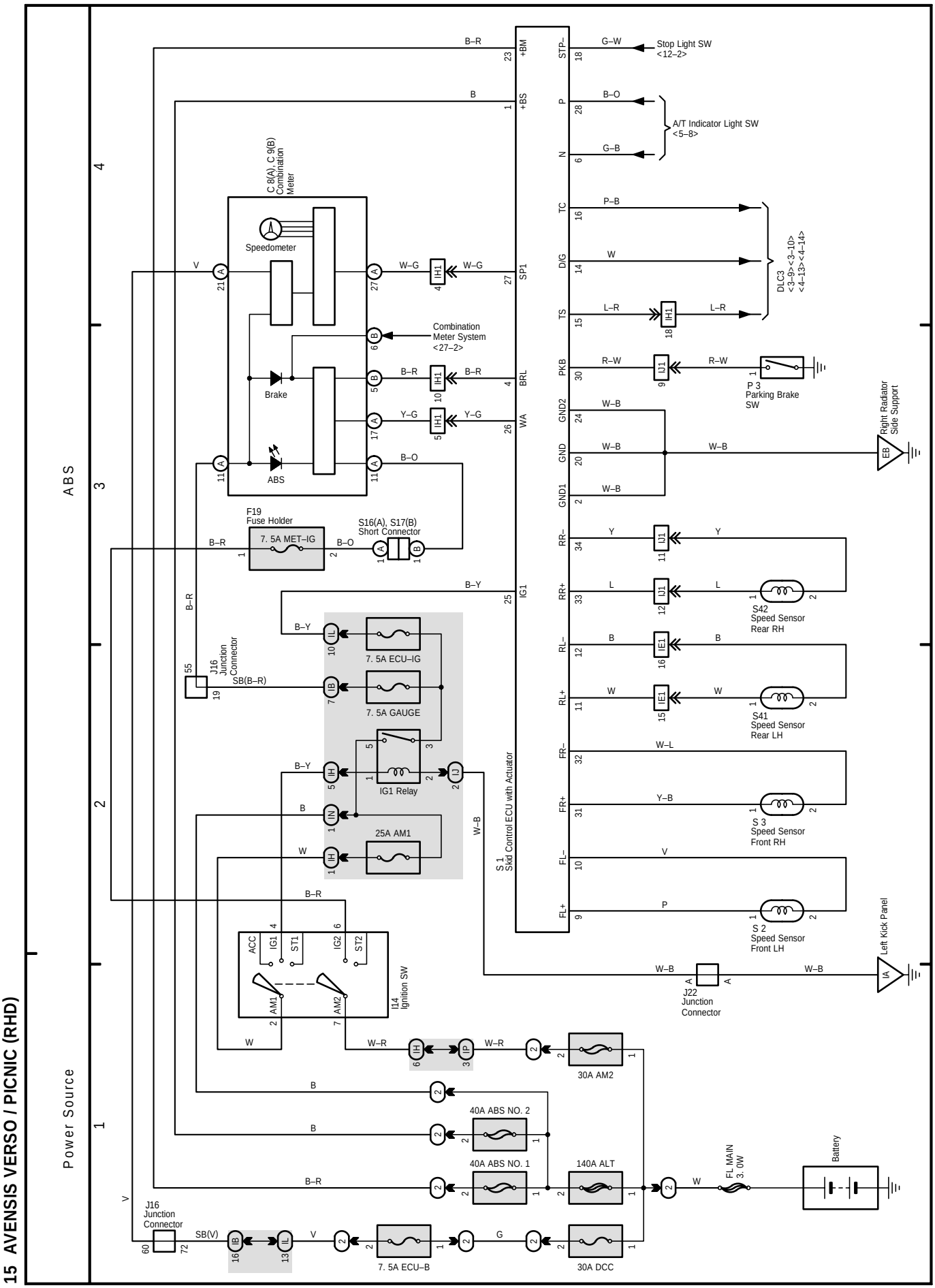

10 AVENSIS VERSO / PICNIC (RHD)
Interior Light
* 3 : 1CD–FTV
C 8(A), C 9(B)
Combination Meter
J16
Junction
Connector
SB(B–R)
B–R
R–Y
SB(V)
V
Door
J28(A), J29(B)
Junction
Connector
Power Window
Master SW
<19–2>
D11
Door Courtesy SW
Rear RH
D 8
Door Courtesy SW
Front LH
D10
Door Courtesy SW
Rear LH
B12
Back Door
Courtesy SW
Center of the
Back Door Panel
W–B
ECUB
PCTY
DCTY
Body ECU
D 2
Diode
SB(R–Y)
R–L
D 9
Door Courtesy SW
Front RH
S30(A), S31(B)
Short
Connector
Transponder Key
Computer<4–16>
(*3)

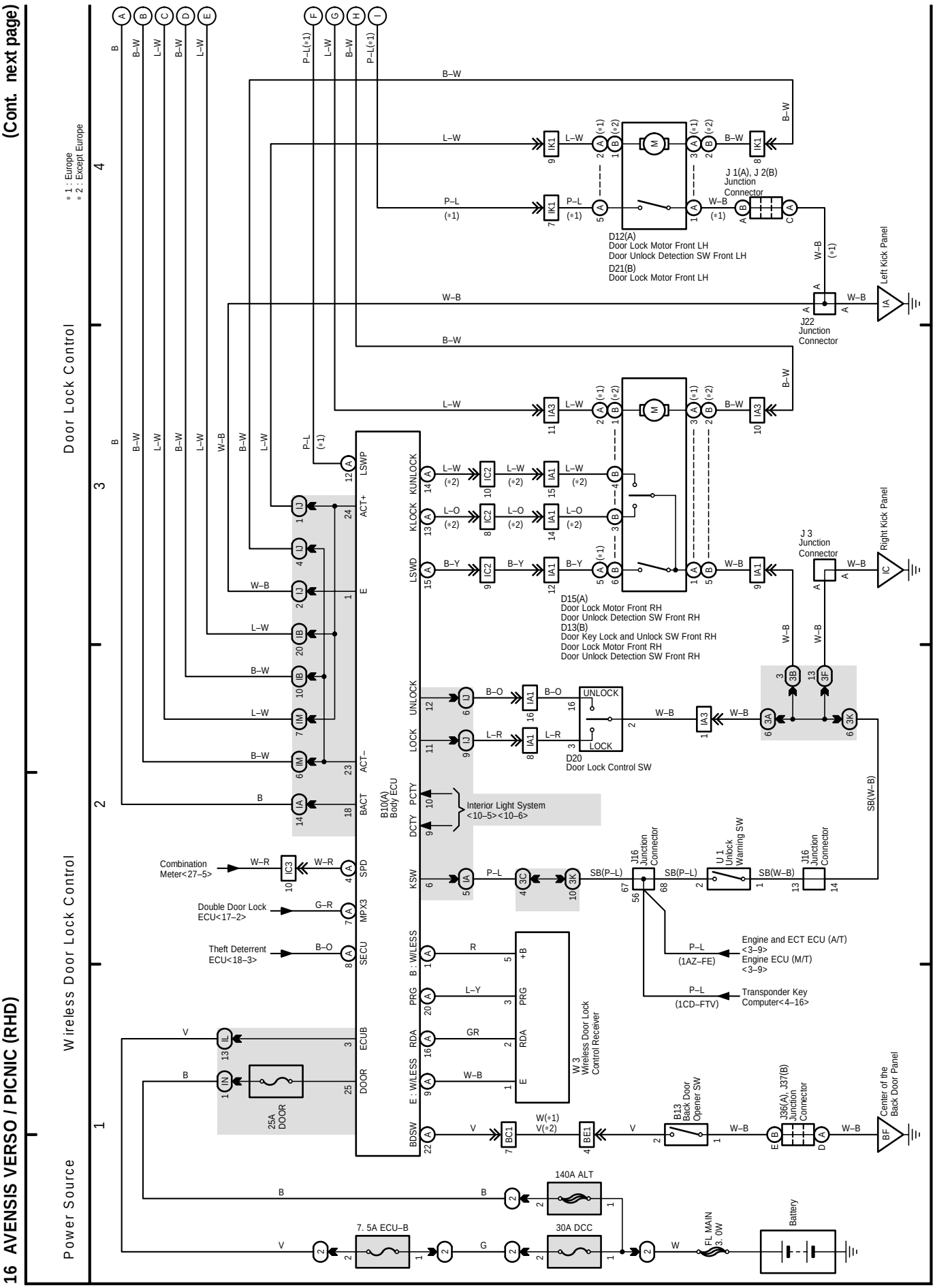

11 AVENSIS VERSO / PICNIC (RHD)
Horn
Back–Up Light
Power Source
H12 Horn (Low)
H11 Horn (High)
HORN Relay
C11 Combination SW
Horn
Theft Deterrent ECU <18–3>
A 2 Back–Up Light SW
B 1 Back–Up Light SW
B 4 Back–Up Light Relay
J18 Junction Connector
J32 Junction Connector
Left Quarter Panel
J36(A), J37(B) Junction Connector
R17 Rear Combination Light RH
R15 Rear Combination Light LH
Back–Up
Center of the Back Door Panel
J22 Junction Connector
Left Kick Panel
7. 5A ECU–ACC
7. 5A GAUGE
IG1 Relay
25A AM1
I14 Ignition SW
140A ALT
FL MAIN 3. 0W
Battery
10A HORN


12 AVENSIS VERSO / PICNIC (RHD)
Power Source
Stop Light
1
2
3
4
R15
Rear Combination
Light LH
Stop
G–W
(*1)
W–B
(*1)
J36(A)J37(B)
Junction
Connector
R17
Rear Combination
Light RH
Center of the
Back Door Panel
BF
H16
High Mounted
Stop Light
BC1
R16
Rear Combination
Light RH
J33(A), J34(B)
Junction
Connector
R14
Rear Combination
Light LH
BE1
BC2
S38
Stop Light
SW
G–B
Skid Control ECU
with Actuator
<15–4>
Front Side of the
Left Quarter Panel
BB
IL3
Engine and ECT ECU (A/T)
<3–7>
Engine ECU (M/T)
<3–7><4–11>
15A STOP
140A ALT
FL MAIN
3. 0W
Battery
B
W

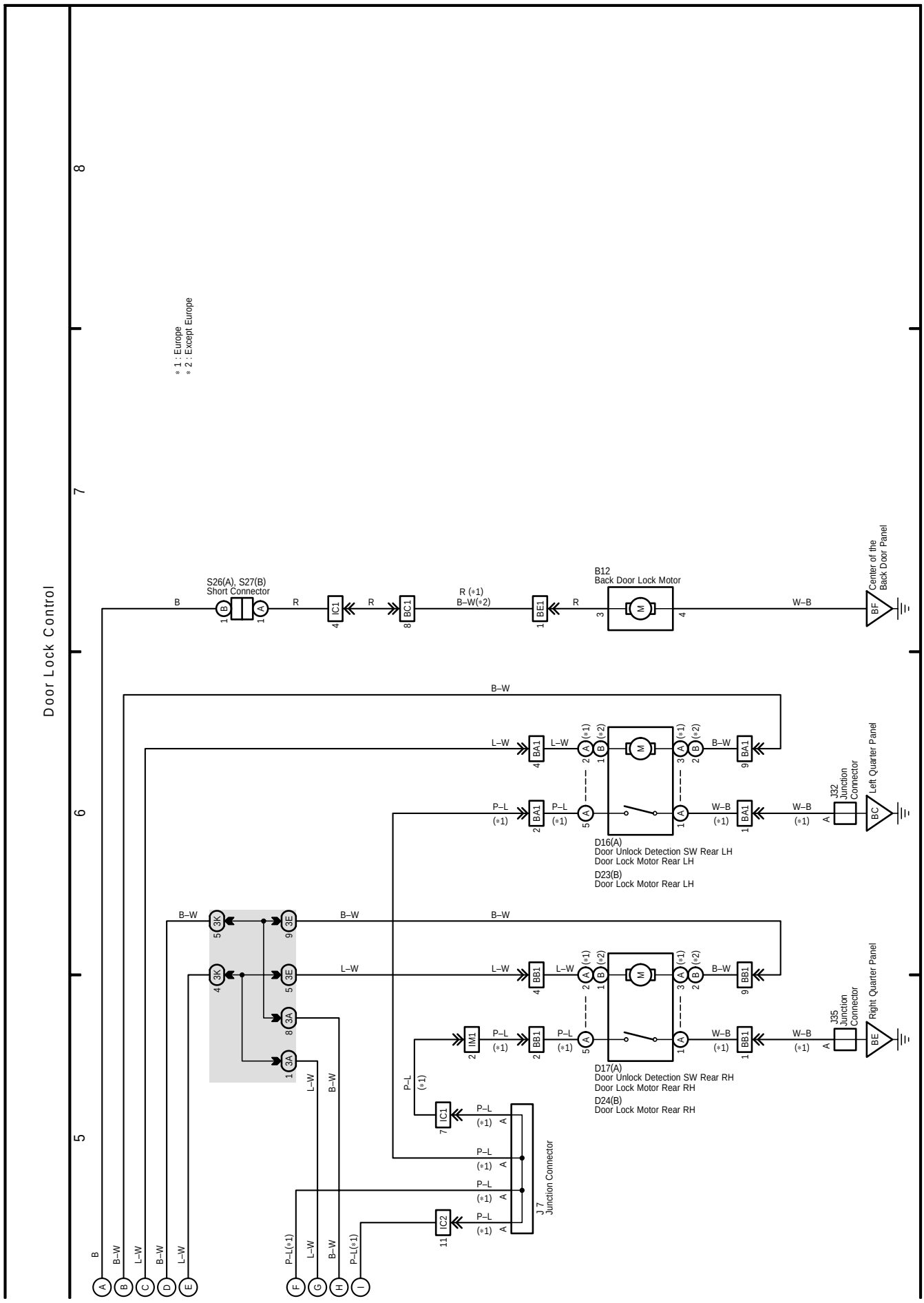

13 AVENSIS VERSO / PICNIC (RHD)
Power Source
Front Fog Light
Rear Fog Light
1
2
3
4
* 1 : Europe
* 2 : Except Europe
* 3 : 1CD–FTV
* 4 : 1AZ–FE
B10(A) Body ECU
ECUB
IG
RR FOG
RR FOGSW
FR FOGSW
L/C(H)
RR FOG LP
Headlight System <6–2>
J 7 Junction Connector
J36(A), J37(B) Junction Connector
R15 Rear Combination Light LH
R17 Rear Combination Light LH
Rear Fog
Center of the Back Door Panel
S16(A), S17(B) Short Connector
C12(A), (B) Combination SW
RR
EF
FR
FG ON
RFG ON
Fog Light SW
J 3 Junction Connector
Right Kick Panel
S32(A), S33(B) Short Connector
F15 Front Fog Light Relay
Front Fog
C 8 Combination Meter
J16 Junction Connector
J23(A), J24(B) Junction Connector
F 3 Front Fog Light LH
F 4 Front Fog Light RH
J15 Junction Connector
Right Radiator Side Support
7. 5A GAUGE
IG1 Relay
I14 Ignition SW
ACC
IG1
ST1
AM1
25A AM1
15A FR FOG
Taillight System<7–2>
TAIL Relay
7. 5A PANEL
140A ALT
FL MAIN 3. 0W
Battery
J22 Junction Connector
Left Kick Panel
7. 5A RR FOG
7. 5A ECU–B
30A DCC

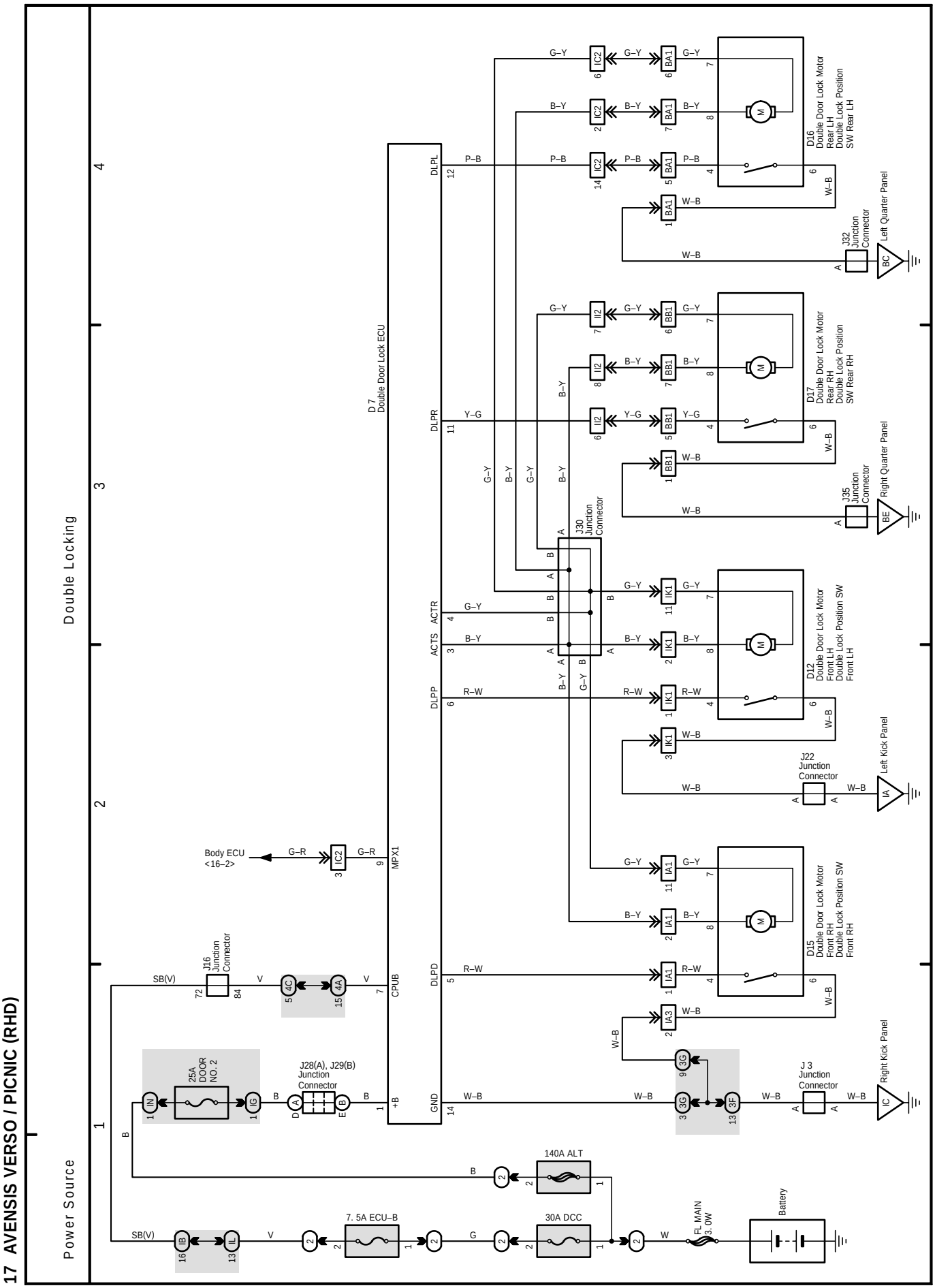

14 AVENSIS VERSO / PICNIC (RHD)
Power Source
SRS
1
2
3
4
* 1 : 1AZ–FE
* 2 : w/ Curtain Shield Airbag
C14 Curtain Shield Airbag Squib RH
C13 Curtain Shield Airbag Squib LH
S40 Side Airbag Sensor RH
S39 Side Airbag Sensor LH
A20(A), A21(B), A22(C) Airbag Sensor Assembly
S37 Side Airbag Squib RH
S36 Side Airbag Squib LH
P16 Pretensioner RH
P15 Pretensioner LH
A23 Airbag Squib (Front Passenger Airbag Assembly)
A24 Airbag Squib (Steering Wheel Pad)
Spiral Cable
A 7 Airbag Sensor Front RH
A 6 Airbag Sensor Front LH
Connection Detection Pin
Engine and ECT ECU (A/T)<3–8> Engine ECU (M/T) <3–8>
10A IGN
C 8(A), C 9(B) Combination Meter
SRS
S16(A), S17(B) Short Connector
7. 5A MET–IG
F19 Fuse Holder
DLC3 <3–9><4–13>
10A SRS–IG
IG1 Relay
J22 Junction Connector
Left Kick Panel
L14 Ignition SW
ACC
IG1
ST1
IG2
ST2
AM1
AM2
30A AM2
25A AM1
140A ALT
FL MAIN 3. 0W
Battery

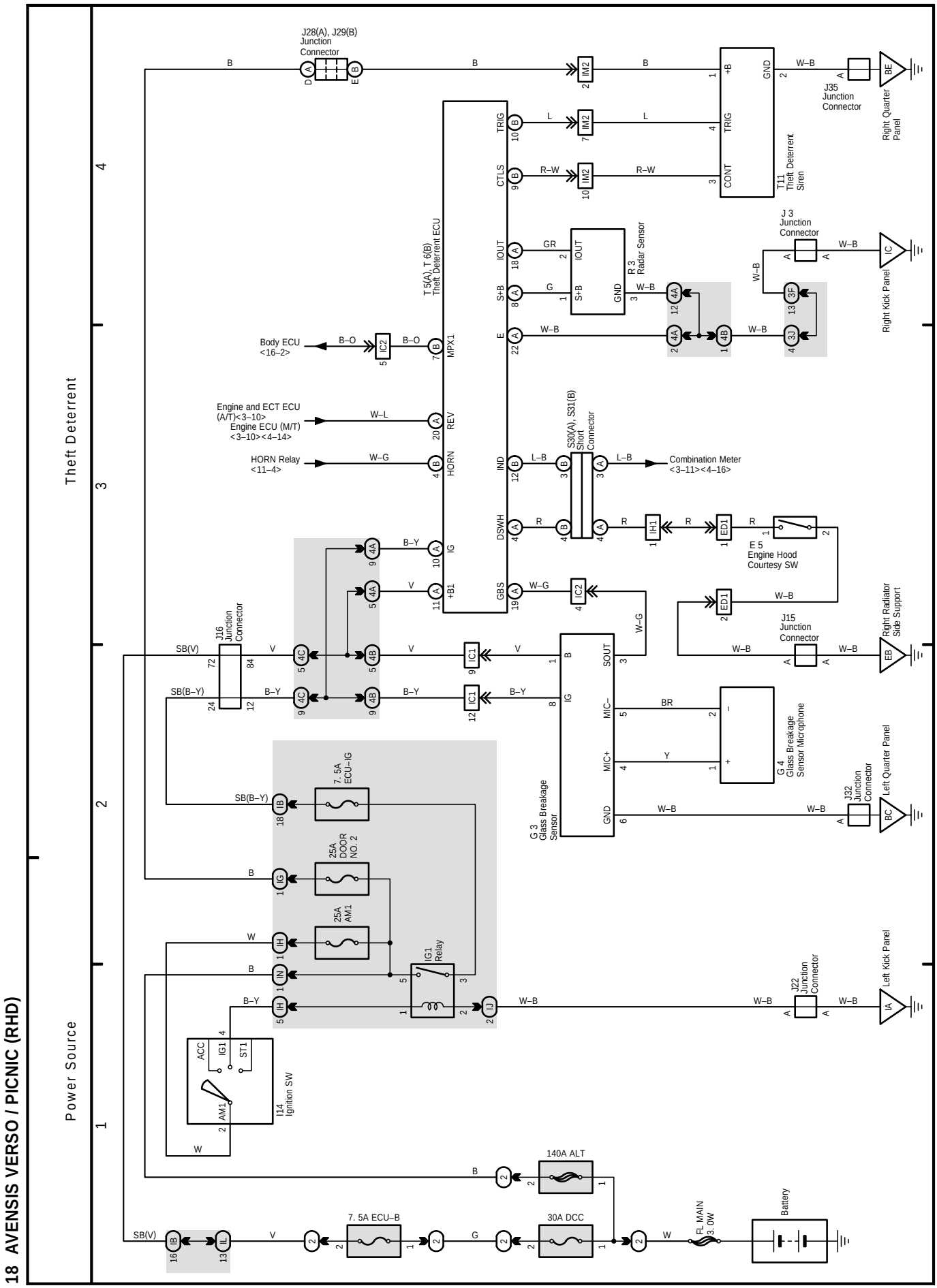

15 AVENSIS VERSO / PICNIC (RHD)
Power Source
ABS
Speedometer
Brake
ABS
Combination Meter System <27–2>
C 8(A), C 9(B) Combination Meter
F19 Fuse Holder
7. 5A MET–IG
S16(A), S17(B) Short Connector
J16 Junction Connector
SB(B–R)
7. 5A ECU–IG
7. 5A GAUGE
IG1 Relay
25A AM1
S1 Skid Control ECU with Actuator
I14 Ignition SW
ACC
IG1
ST1
IG2
ST2
AM1
AM2
30A AM2
40A ABS NO. 2
40A ABS NO. 1
140A ALT
FL MAIN 3. 0W
Battery
J16 Junction Connector
SB(V)
7. 5A ECU–B
30A DCC
J22 Junction Connector
Left Kick Panel
Right Radiator Side Support
Stop Light SW <12–2>
A/T Indicator Light SW <5–8>
DLC3 <3–9><3–10> <4–13><4–14>
P 3 Parking Brake SW
S42 Speed Sensor Rear RH
S41 Speed Sensor Rear LH
S 3 Speed Sensor Front RH
S 2 Speed Sensor Front LH

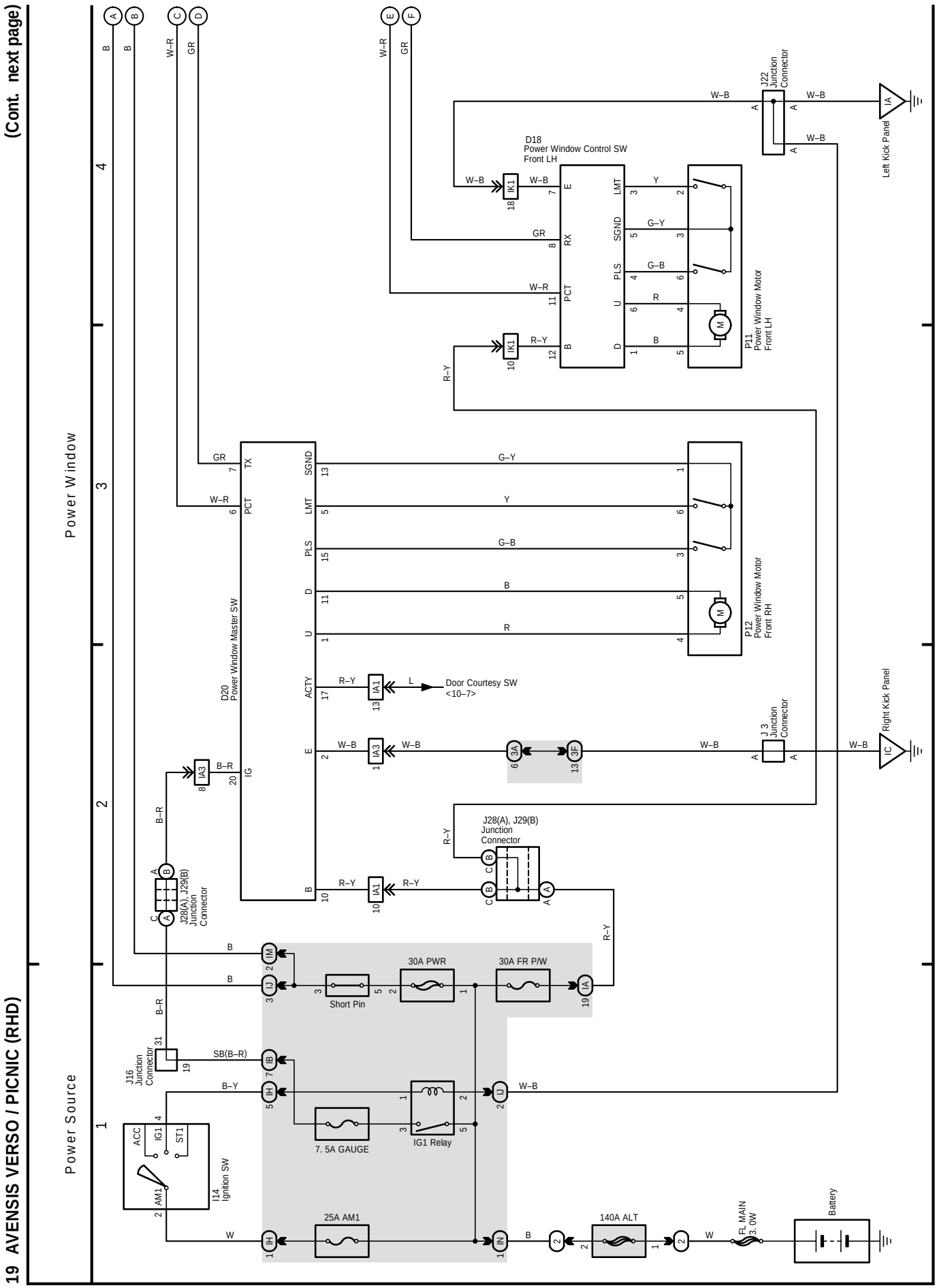

16 AVENSIS VERSO / PICNIC (RHD)
(Cont. next page)
Power Source
Wireless Door Lock Control
Door Lock Control
* 1 : Europe
* 2 : Except Europe
B10(A) Body ECU
W 3 Wireless Door Lock Control Receiver
D12(A) Door Lock Motor Front LH Door Unlock Detection SW Front LH
D21(B) Door Lock Motor Front LH
D15(A) Door Lock Motor Front RH Door Unlock Detection SW Front RH
D13(B) Door Key Lock and Unlock SW Front RH Door Lock Motor Front RH Door Unlock Detection SW Front RH
D20 Door Lock Control SW
J 1(A), J 2(B) Junction Connector
J22 Junction Connector
J 3 Junction Connector
J16 Junction Connector
J36(A), J37(B) Junction Connector
U 1 Unlock Warning SW
B13 Back Door Opener SW
Interior Light System <10–5><10–6>
Combination Meter<27–5>
Double Door Lock ECU<17–2>
Theft Deterrent ECU<18–3>
Engine and ECT ECU (A/T) <3–9>
Engine ECU (M/T) <3–9>
Transponder Key Computer<4–16>
Left Kick Panel
Right Kick Panel
Center of the Back Door Panel
140A ALT
7. 5A ECU–B
30A DCC
25A DOOR
Battery

16 AVENSIS VERSO / PICNIC (RHD) (Cont' d)

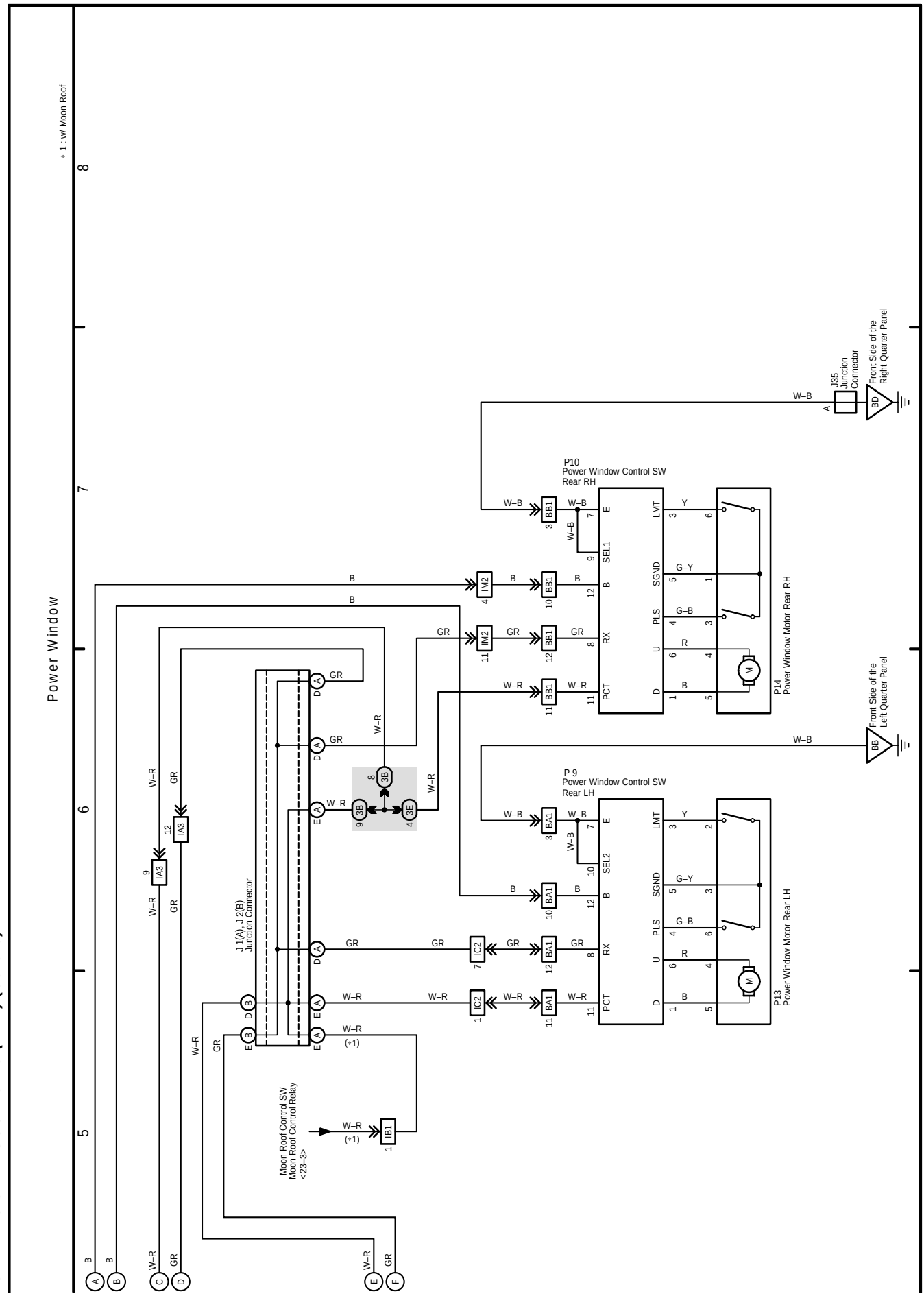


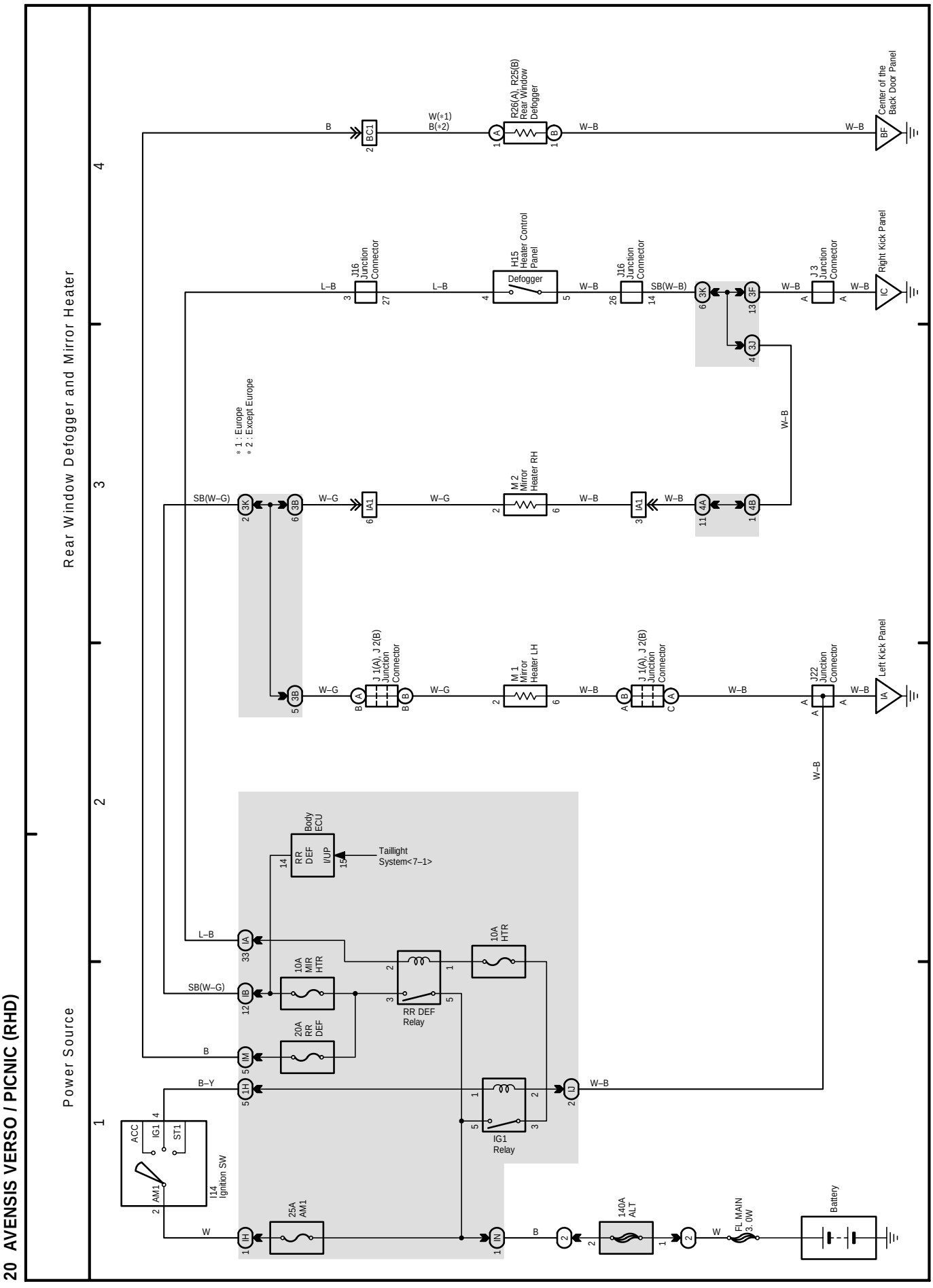

17 AVENSIS VERSO / PICNIC (RHD)
Power Source
Double Locking
1
2
3
4
D 7
Double Door Lock ECU
DLPL
DLPR
ACTR
ACTS
DLPP
DLPD
GND
CPUB
+B
MPX1
Body ECU
<16–2>
J16
Junction
Connector
J28(A), J29(B)
Junction
Connector
J30
Junction
Connector
J32
Junction
Connector
J35
Junction
Connector
J22
Junction
Connector
J 3
Junction
Connector
D16
Double Door Lock Motor
Rear LH
Double Lock Position
SW Rear LH
D17
Double Door Lock Motor
Rear RH
Double Lock Position
SW Rear RH
D12
Double Door Lock Motor
Front LH
Double Lock Position SW
Front LH
D15
Double Door Lock Motor
Front RH
Double Lock Position SW
Front RH
Left Quarter Panel
Right Quarter Panel
Left Kick Panel
Right Kick Panel
25A
DOOR
NO. 2
140A ALT
7. 5A ECU–B
30A DCC
FL MAIN
3. 0W
Battery

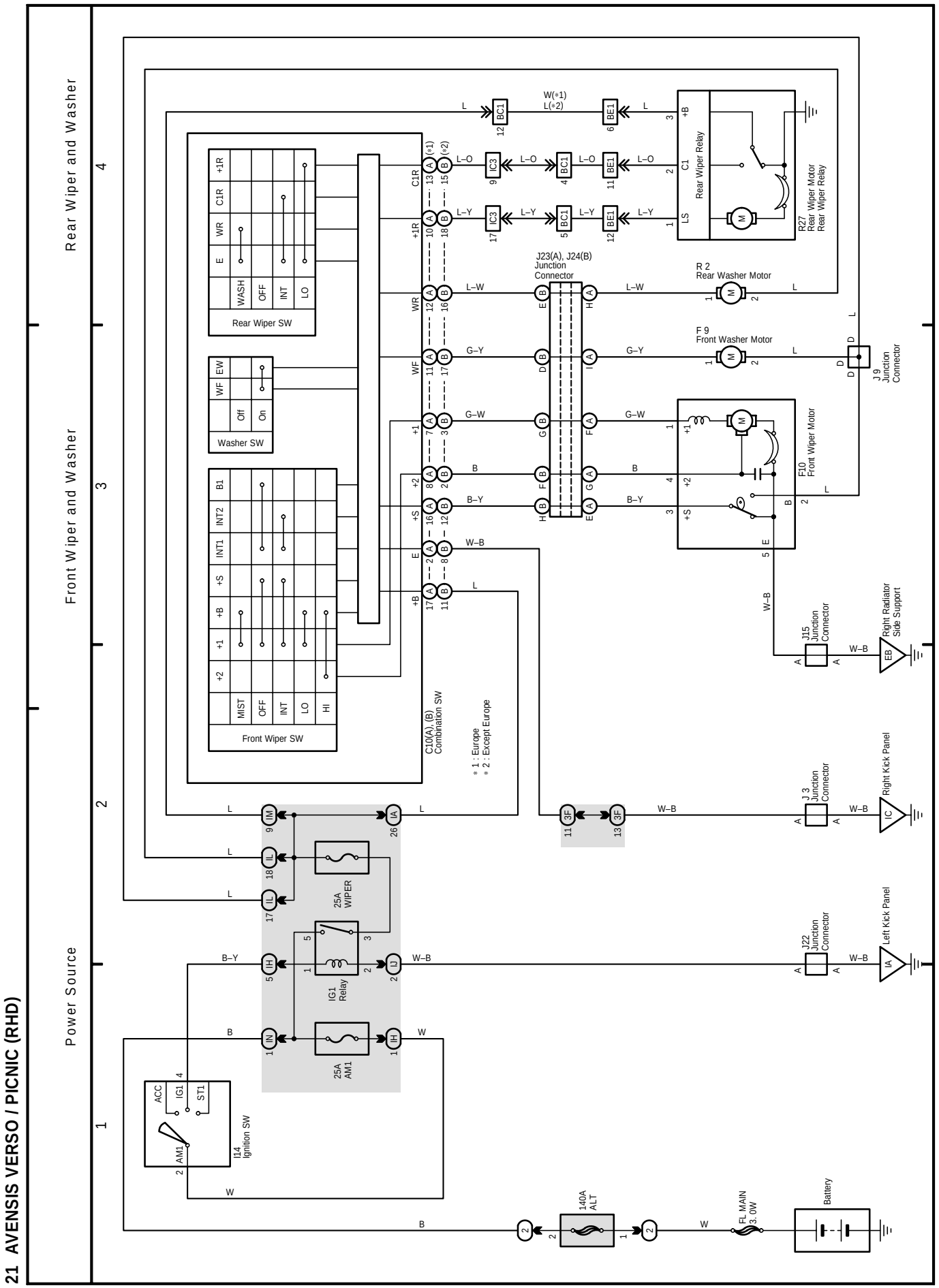

18 AVENSIS VERSO / PICNIC (RHD)
Theft Deterrent
Power Source
J28(A), J29(B) Junction Connector
J35 Junction Connector
Right Quarter Panel
T11 Theft Deterrent Siren
J 3 Junction Connector
Right Kick Panel
R 3 Radar Sensor
T 5(A), T 6(B) Theft Deterrent ECU
Body ECU <16–2>
Engine and ECT ECU (A/T)<3–10> Engine ECU (M/T) <3–10><4–14>
HORN Relay <11–4>
S30(A), S31(B) Short Connector
Combination Meter <3–11><4–16>
E 5 Engine Hood Courtesy SW
J15 Junction Connector
Right Radiator Side Support
J16 Junction Connector
G 3 Glass Breakage Sensor
G 4 Glass Breakage Sensor Microphone
J32 Junction Connector
Left Quarter Panel
J22 Junction Connector
Left Kick Panel
7. 5A ECU–IG
25A DOOR NO. 2
25A AM1
IG1 Relay
I14 Ignition SW
140A ALT
7. 5A ECU–B
30A DCC
FL MAIN 3. 0W
Battery

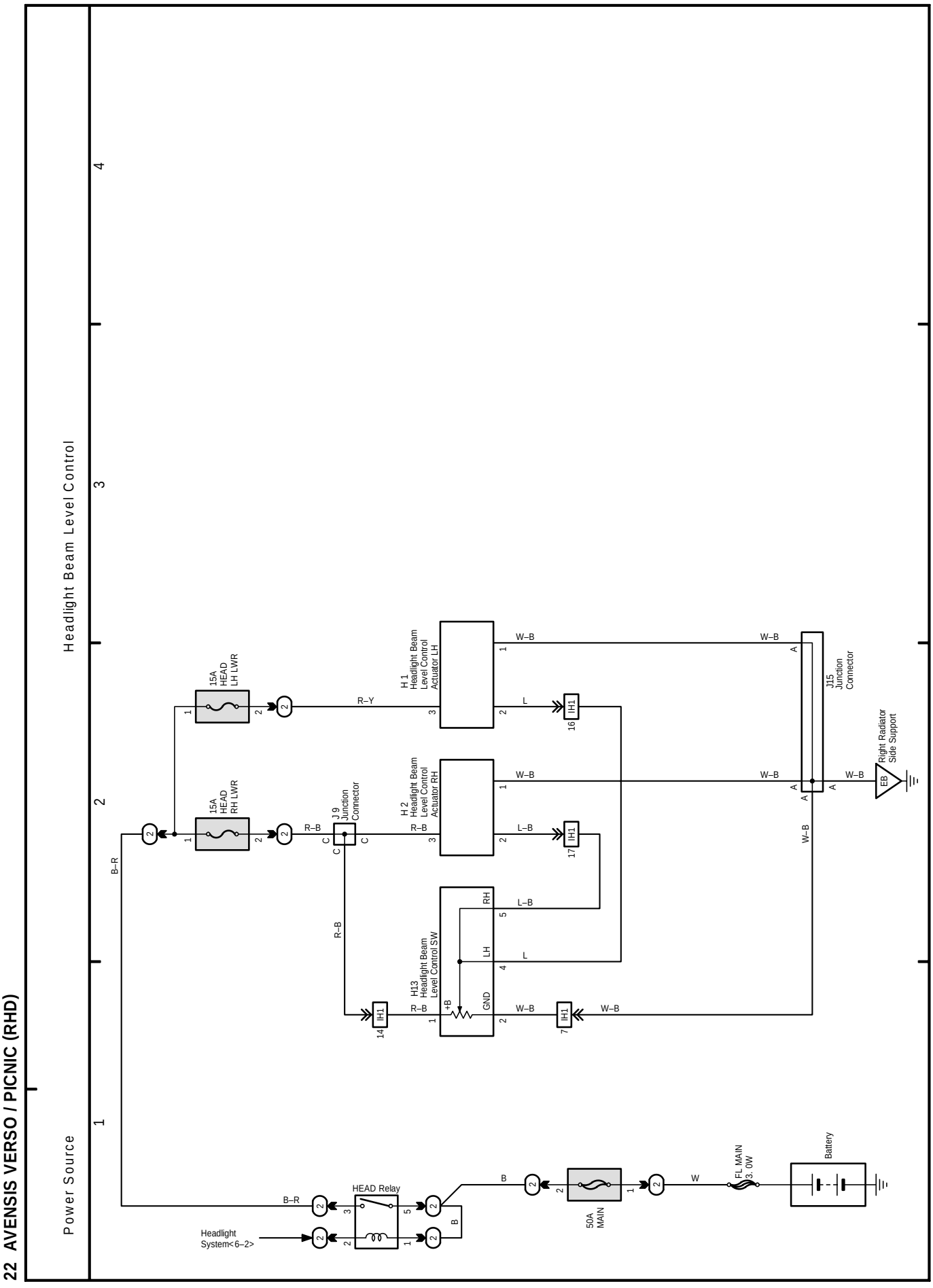

(Cont. next page)
19 AVENSIS VERSO / PICNIC (RHD)
Power Source
Power Window
D18
Power Window Control SW
Front LH
P11
Power Window Motor
Front LH
P12
Power Window Motor
Front RH
D20
Power Window Master SW
J22
Junction
Connector
J 3
Junction
Connector
J16
Junction
Connector
J28(A), J29(B)
Junction
Connector
Left Kick Panel
Right Kick Panel
Door Courtesy SW
<10–7>
I14
Ignition SW
ACC
IG1
ST1
AM1
IG1 Relay
7. 5A GAUGE
Short Pin
30A PWR
30A FR P/W
25A AM1
140A ALT
FL MAIN
3. 0W
Battery

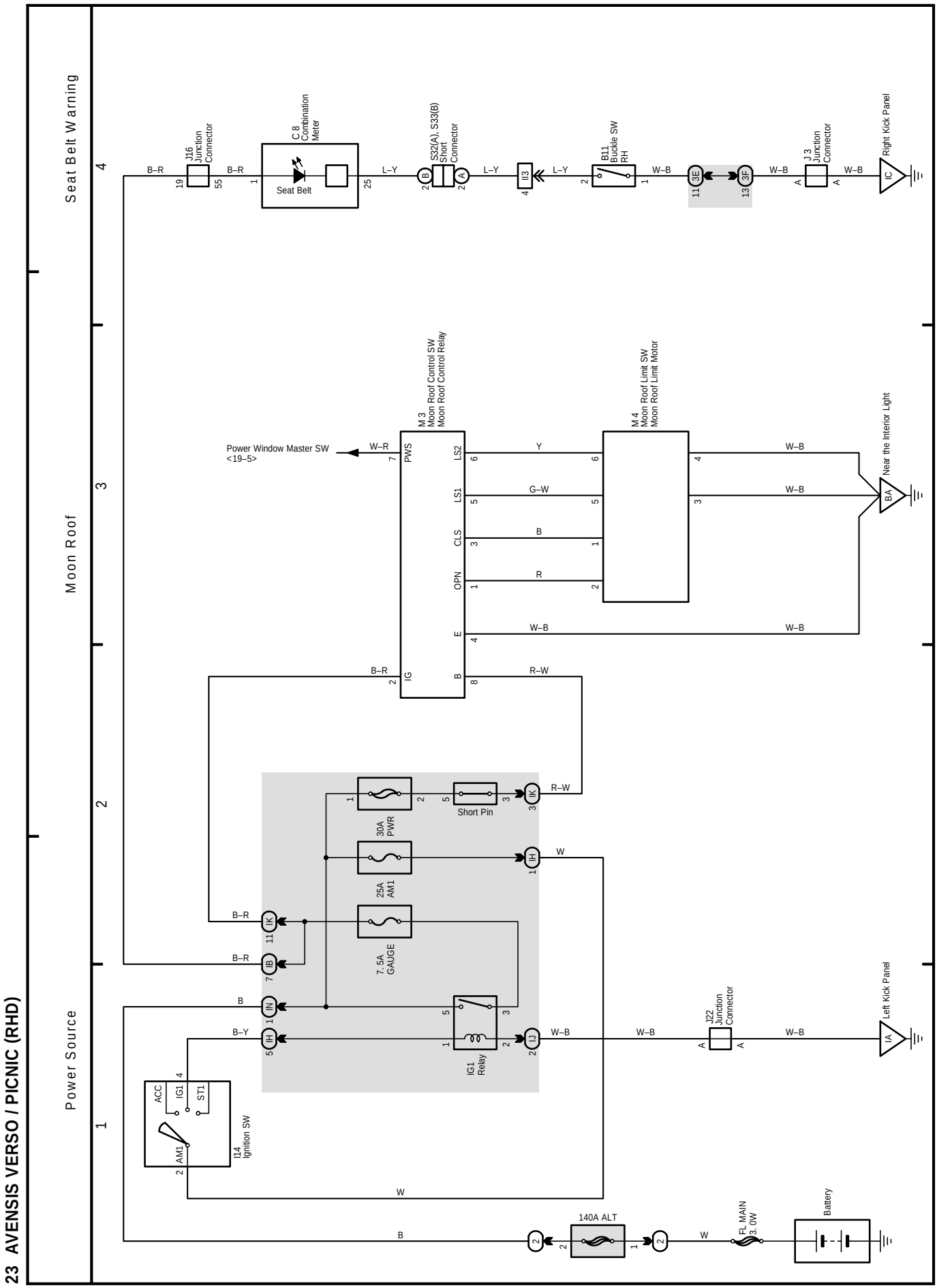
19 AVENSIS VERSO / PICNIC (RHD) (Cont' d)

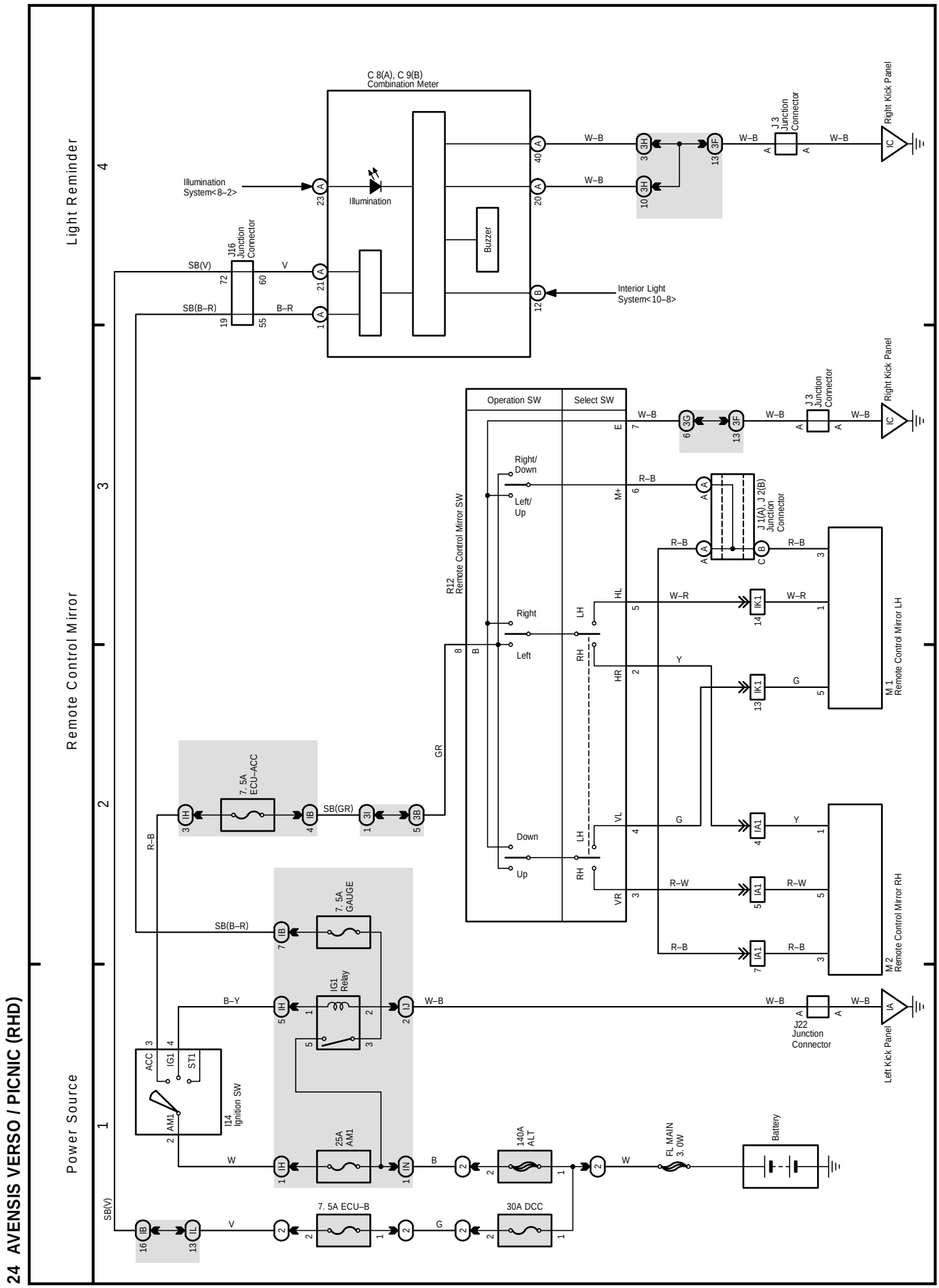


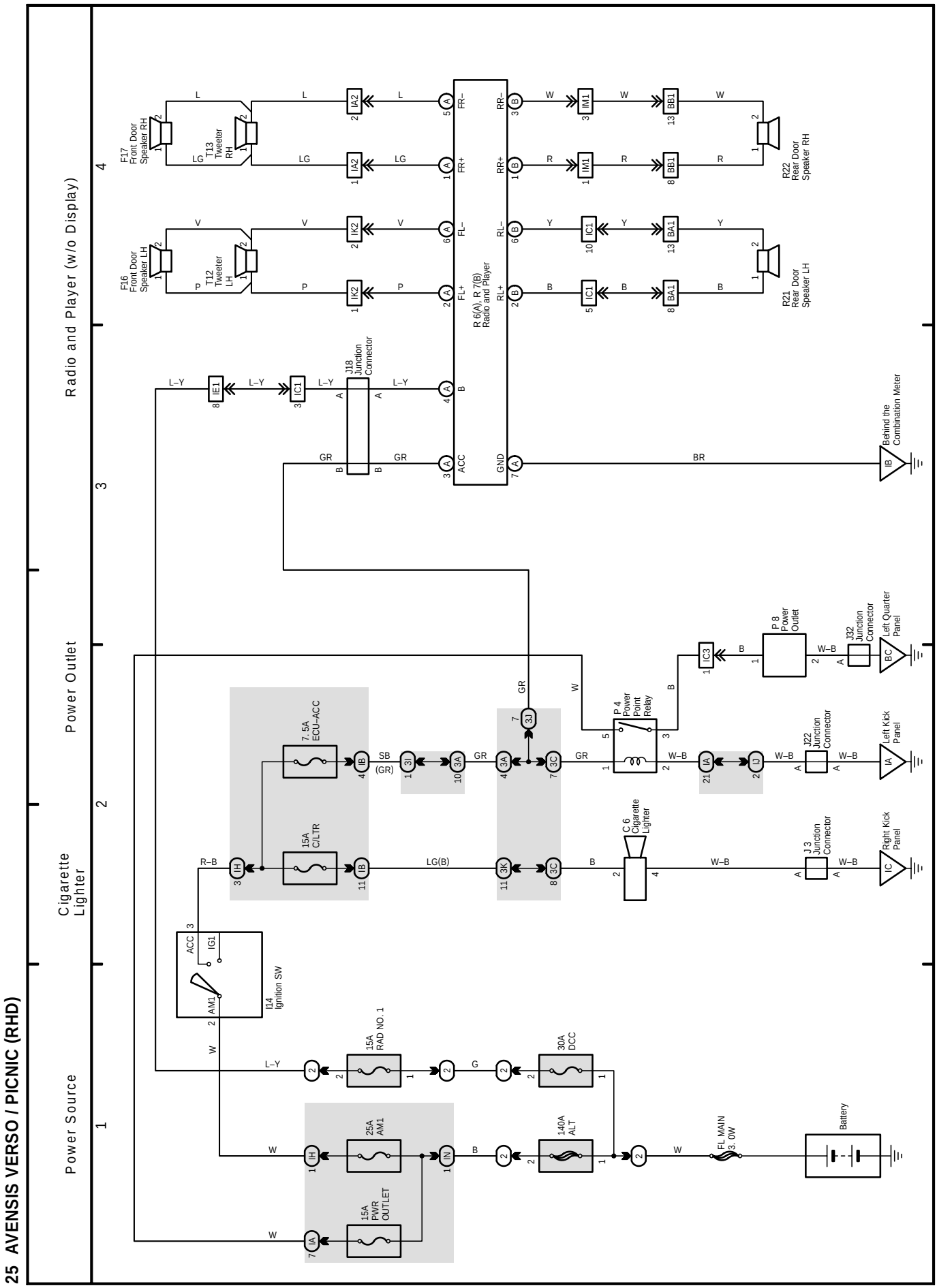

20 AVENSIS VERSO / PICNIC (RHD)
Power Source
Rear Window Defogger and Mirror Heater
1
2
3
4
* 1 : Europe
* 2 : Except Europe
R26(A), R25(B) Rear Window Defogger
Center of the Back Door Panel
J16 Junction Connector
H15 Heater Control Panel
Defogger
J3 Junction Connector
Right Kick Panel
M 2 Mirror Heater RH
M 1 Mirror Heater LH
J 1(A), J 2(B) Junction Connector
J22 Junction Connector
Left Kick Panel
Body ECU
RR DEF I/UP
Taillight System<7–1>
10A MIR HTR
10A HTR
20A RR DEF
RR DEF Relay
IG1 Relay
I14 Ignition SW
ACC
IG1
ST1
AM1
25A AM1
140A ALT
FL MAIN 3.0W
Battery

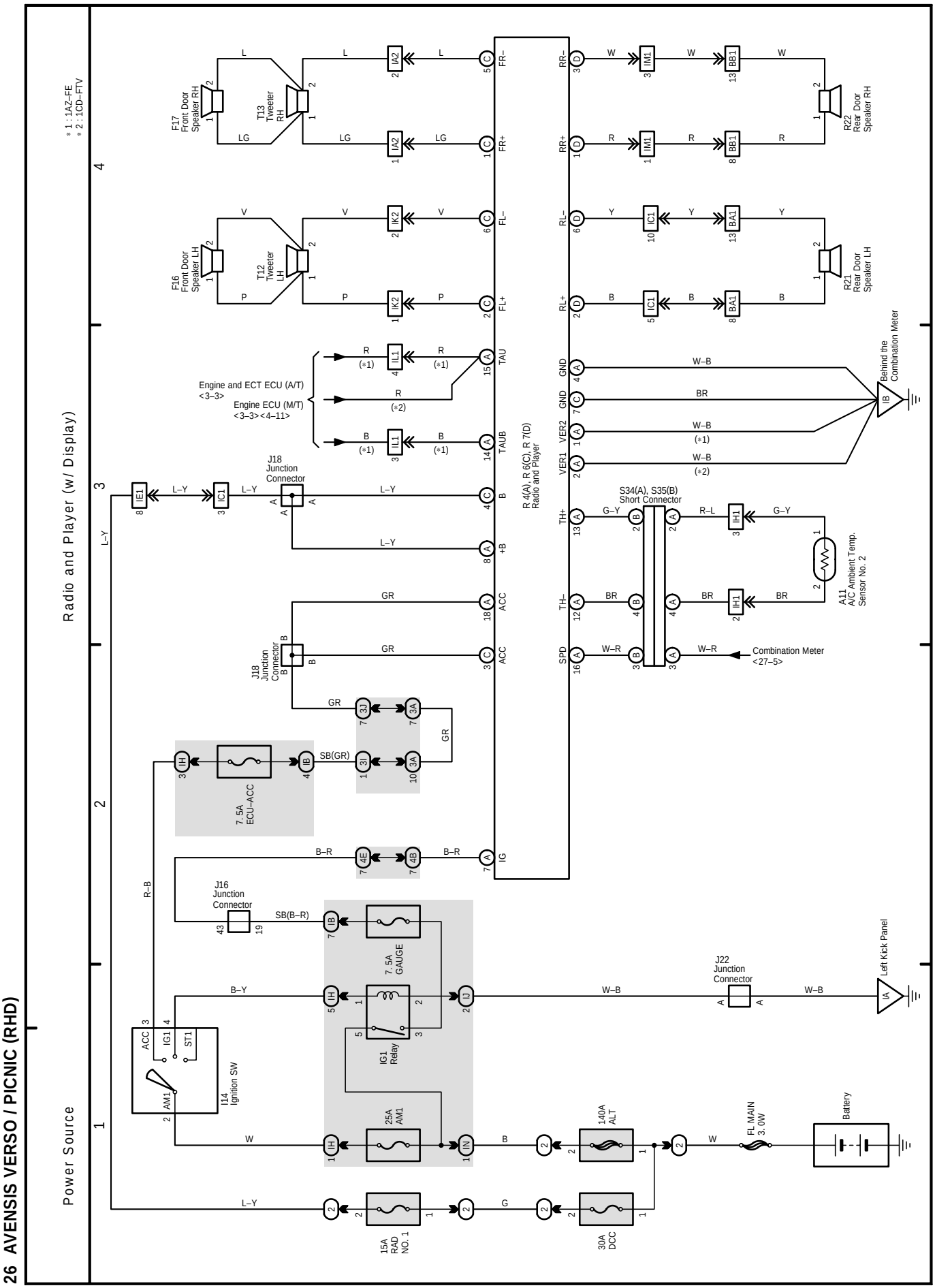

21 AVENSIS VERSO / PICNIC (RHD)
Power Source
Front Wiper and Washer
Rear Wiper and Washer
Front Wiper SW
Rear Wiper SW
Washer SW
C10(A), (B) Combination SW
* 1 : Europe
* 2 : Except Europe
J23(A), J24(B) Junction Connector
R 2 Rear Washer Motor
F 9 Front Washer Motor
R27 Rear Wiper Motor Rear Wiper Relay
Rear Wiper Relay
F10 Front Wiper Motor
J 9 Junction Connector
J15 Junction Connector
Right Radiator Side Support
J 3 Junction Connector
Right Kick Panel
J22 Junction Connector
Left Kick Panel
25A WIPER
IG1 Relay
25A AM1
I14 Ignition SW
140A ALT
FL MAIN 3. 0W
Battery

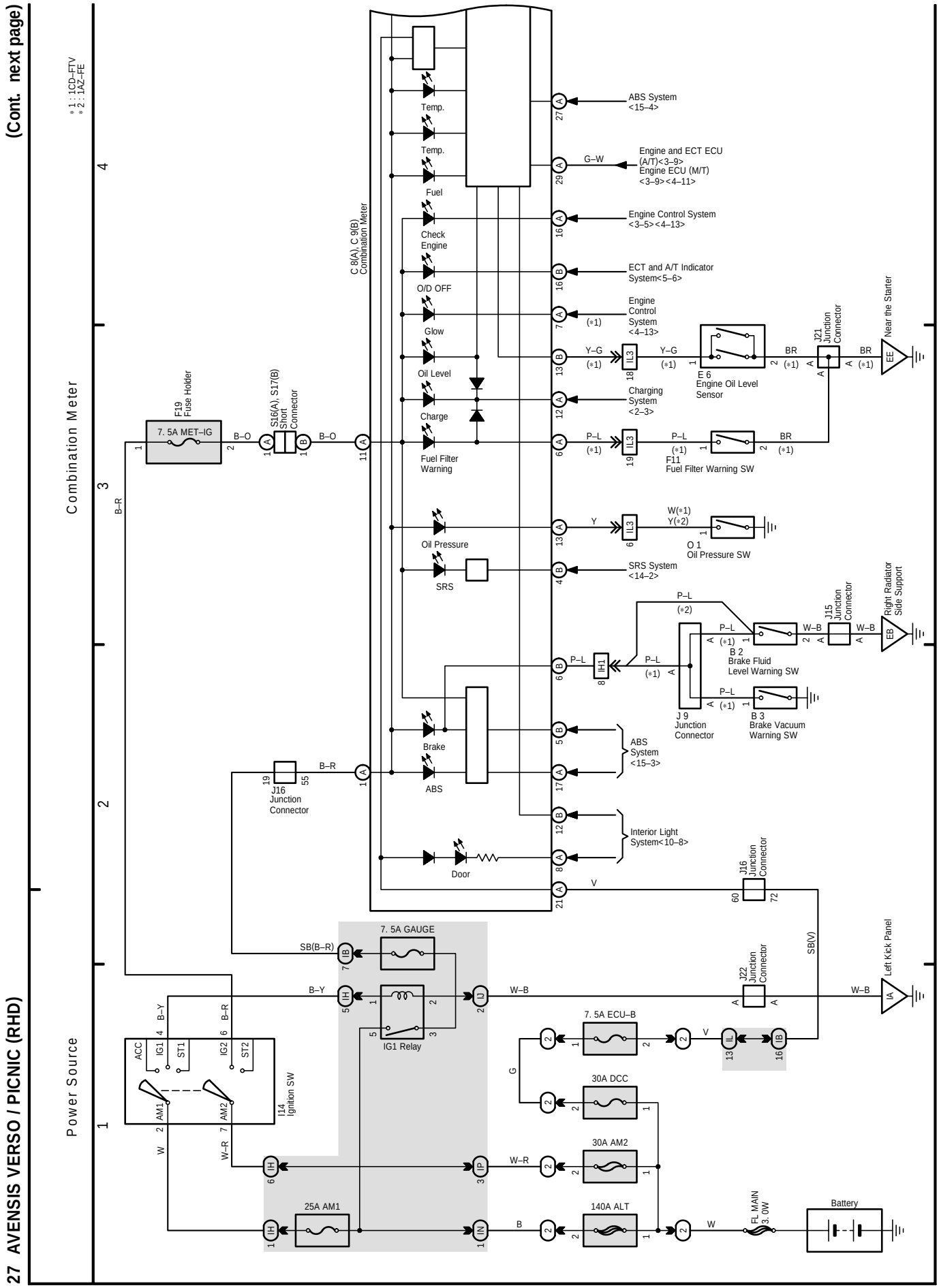

22 AVENSIS VERSO / PICNIC (RHD)
Power Source
Headlight Beam Level Control
1
2
3
4
Battery
FL MAIN
3. 0W
50A
MAIN
HEAD Relay
Headlight
System<6–2>
15A
HEAD
LH LWR
15A
HEAD
RH LWR
J9
Junction
Connector
H1
Headlight Beam
Level Control
Actuator LH
H2
Headlight Beam
Level Control
Actuator RH
H13
Headlight Beam
Level Control SW
J15
Junction
Connector
Right Radiator
Side Support
EB
IH1
B–R
R–Y
R–B
W–B
L
L–B
B
W
RH
LH
GND
+B

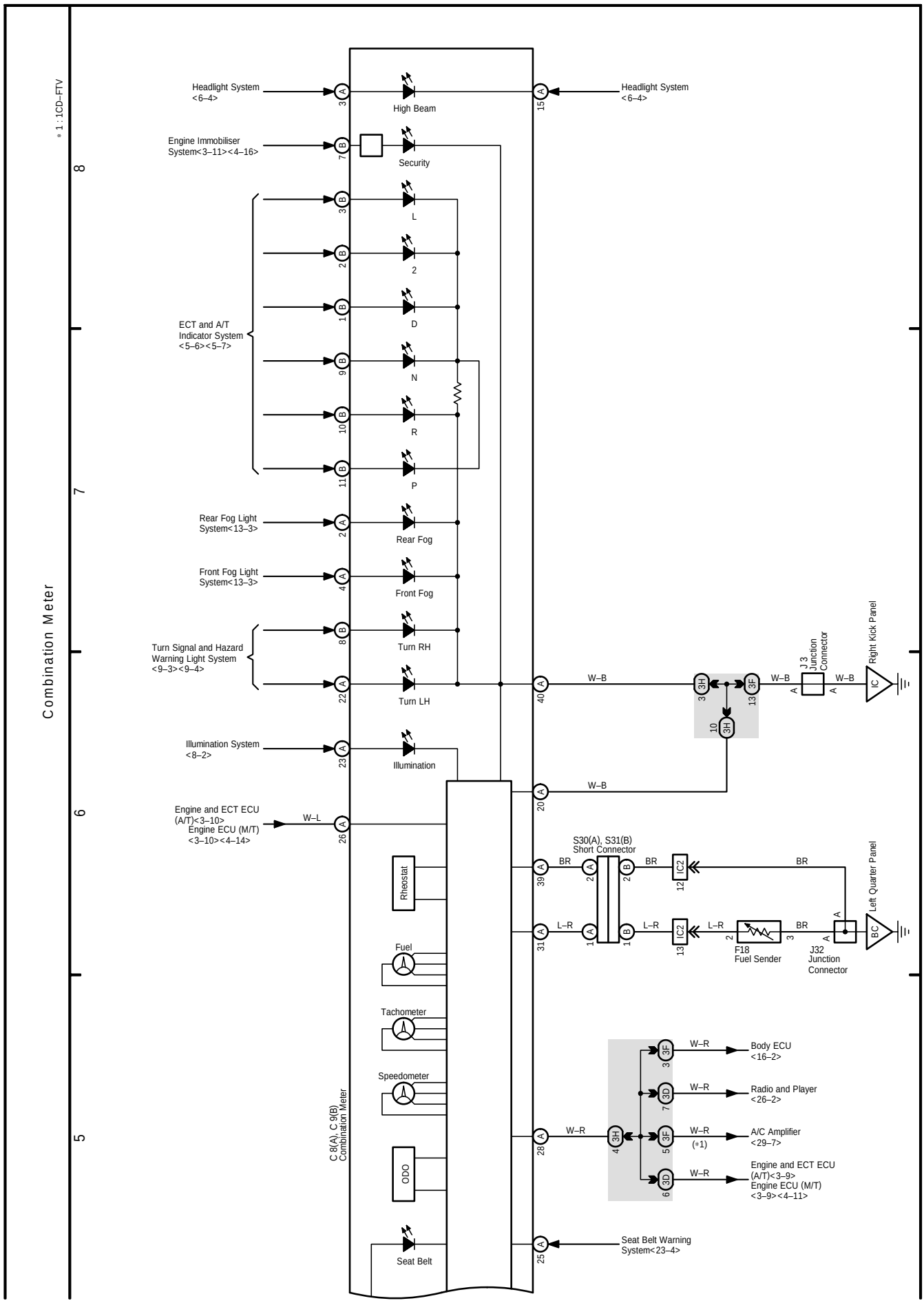

23 AVENSIS VERSO / PICNIC (RHD)
Power Source
Moon Roof
Seat Belt Warning
1
2
3
4
Battery
FL MAIN 3. 0W
140A ALT
I14 Ignition SW
ACC
IG1
ST1
AM1
IG1 Relay
7.5A GAUGE
25A AM1
30A PWR
Short Pin
J22 Junction Connector
Left Kick Panel
J 3 Junction Connector
Right Kick Panel
B11 Buckle SW RH
S32(A), S33(B) Short Connector
C 8 Combination Meter
Seat Belt
J16 Junction Connector
M 3 Moon Roof Control SW Moon Roof Control Relay
M 4 Moon Roof Limit SW Moon Roof Limit Motor
Near the Interior Light
Power Window Master SW <19–5>
PWS
IG
E
OPN
CLS
LS1
LS2
B–R
B–Y
L–Y
W–B
W–R
R–W
G–W
W

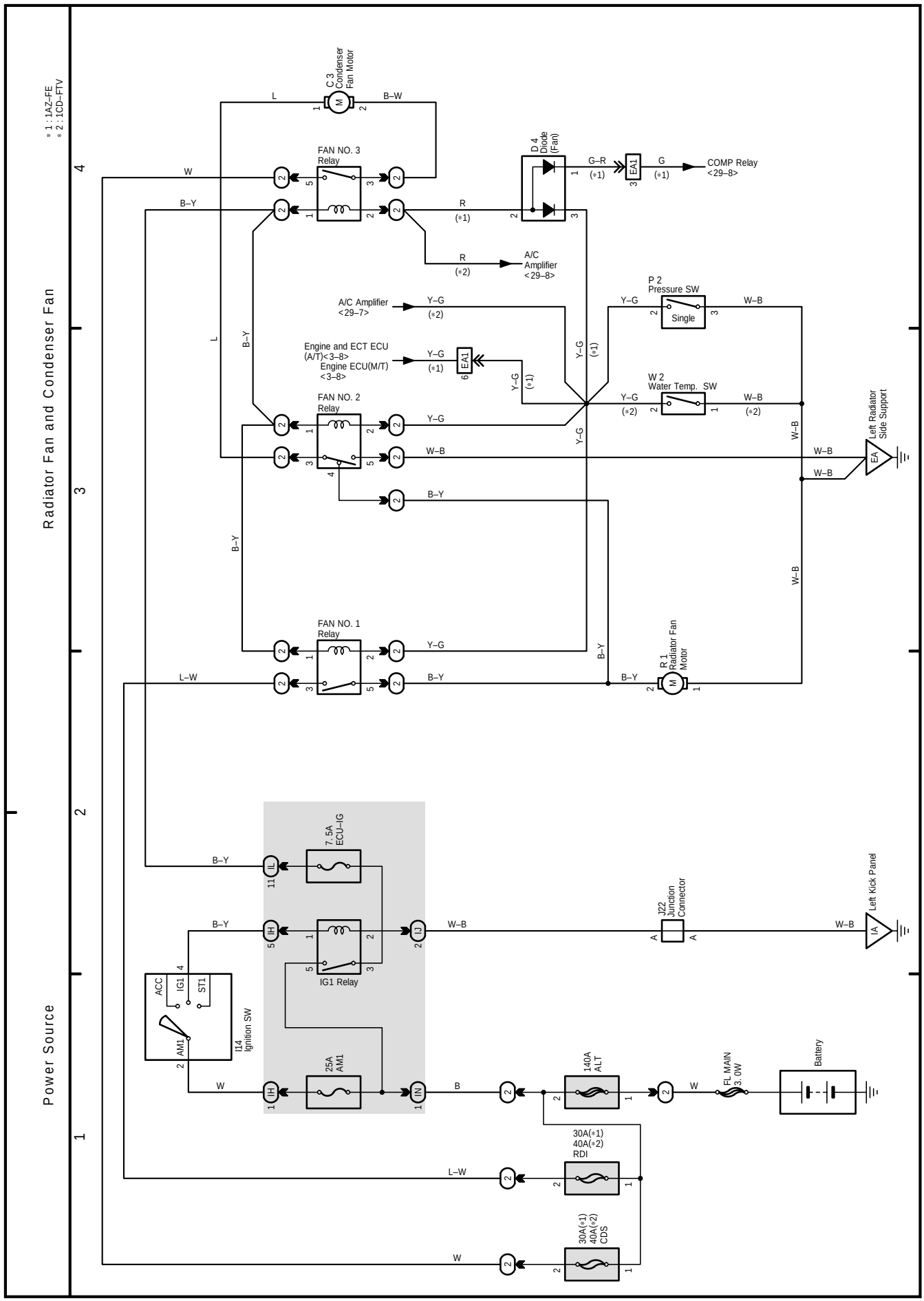

24 AVENSIS VERSO / PICNIC (RHD)
Power Source
Remote Control Mirror
Light Reminder
1
2
3
4
C 8(A), C 9(B)
Combination Meter
Illumination
Buzzer
Illumination System<8–2>
Interior Light System<10–8>
J16 Junction Connector
J3 Junction Connector
Right Kick Panel
Left Kick Panel
J22 Junction Connector
J1(A), J2(B) Junction Connector
R12 Remote Control Mirror SW
Operation SW
Select SW
Right/ Down
Left/ Up
Right
Left
Down
Up
M1 Remote Control Mirror LH
M2 Remote Control Mirror RH
I14 Ignition SW
IG1 Relay
7. 5A ECU–ACC
7. 5A GAUGE
25A AM1
140A ALT
7. 5A ECU–B
30A DCC
FL MAIN 3. 0W
Battery
SB(V)
SB(B–R)
SB(GR)
R–B
B–Y
W–B
W–R
R–W
GR
V
B
G
W
Y

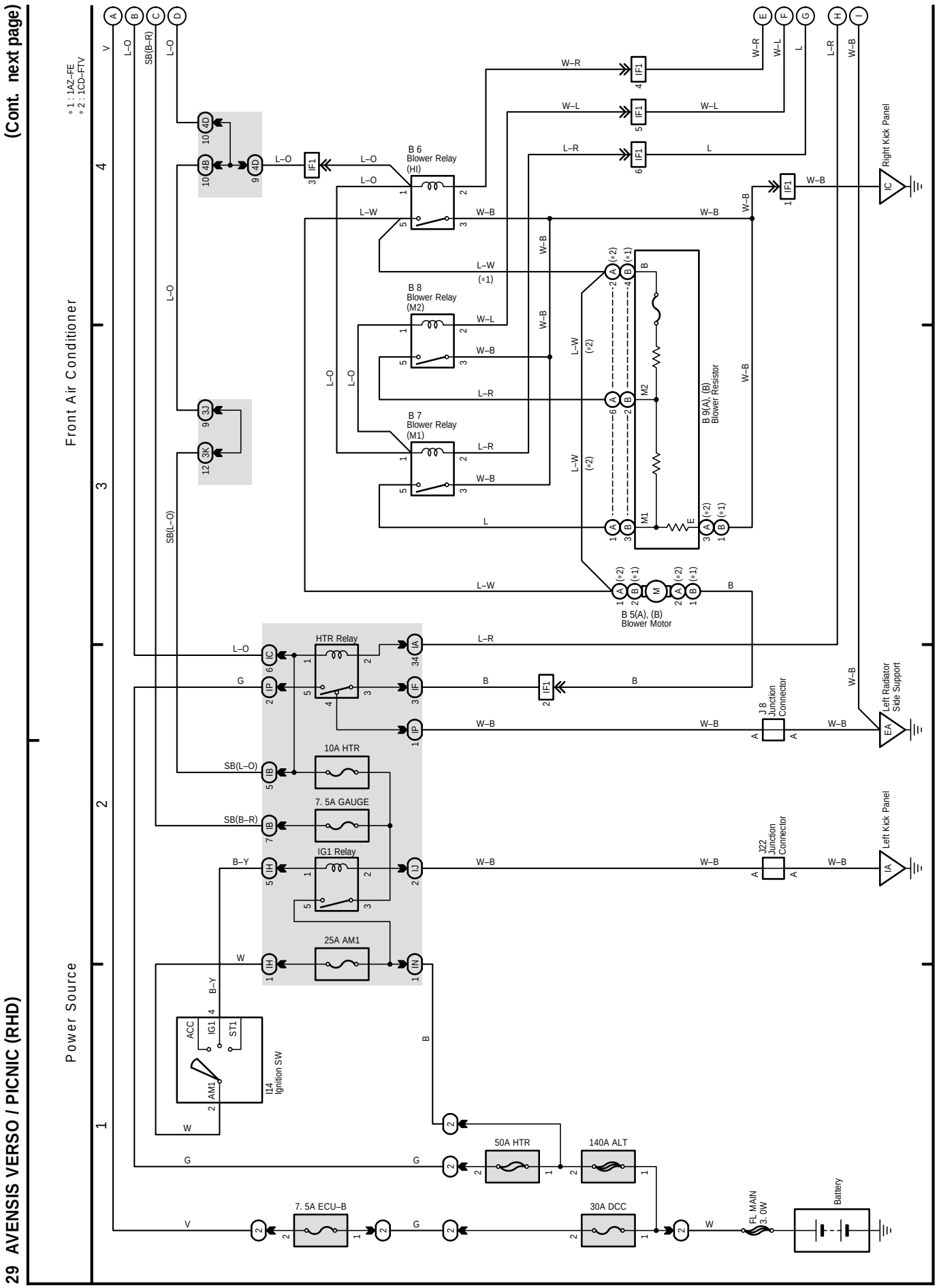

25 AVENSIS VERSO / PICNIC (RHD)
Power Source
Cigarette Lighter
Power Outlet
Radio and Player (w/o Display)
1
2
3
4
F17 Front Door Speaker RH
T13 Tweeter RH
F16 Front Door Speaker LH
T12 Tweeter LH
R 6(A), R 7(B) Radio and Player
R22 Rear Door Speaker RH
R21 Rear Door Speaker LH
J18 Junction Connector
Behind the Combination Meter
P 4 Power Point Relay
P 8 Power Outlet
J32 Junction Connector
Left Quarter Panel
J22 Junction Connector
Left Kick Panel
C 6 Cigarette Lighter
J 3 Junction Connector
Right Kick Panel
I14 Ignition SW
7.5A ECU-ACC
15A C/LTR
15A RAD NO. 1
30A DCC
25A AM1
15A PWR OUTLET
140A ALT
FL MAIN 3. 0W
Battery

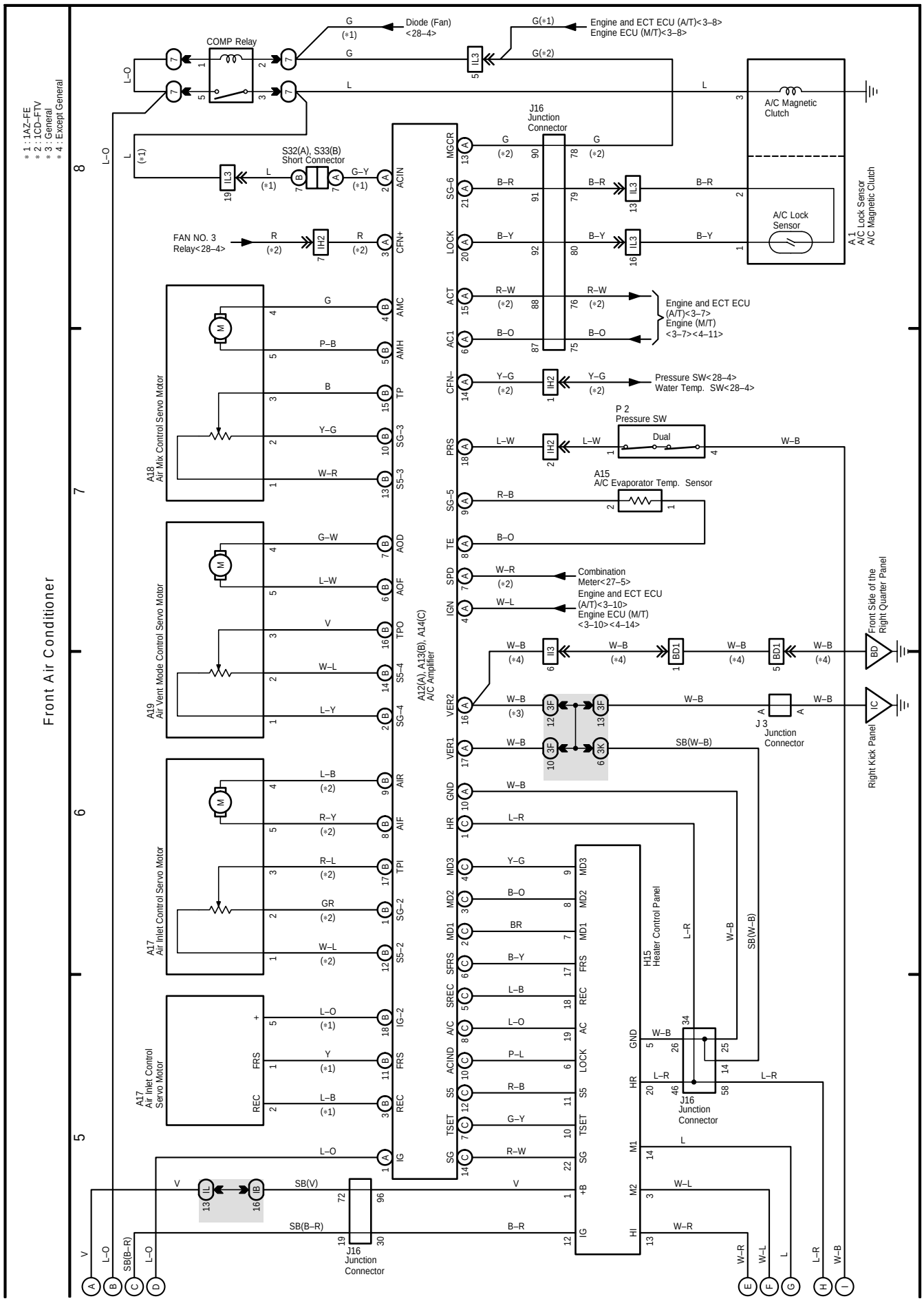

26 AVENSIS VERSO / PICNIC (RHD)
Power Source
Radio and Player (w/ Display)
*1: 1AZ–FE
*2: 1CD–FTV
F17 Front Door Speaker RH
T13 Tweeter RH
F16 Front Door Speaker LH
T12 Tweeter LH
R22 Rear Door Speaker RH
R21 Rear Door Speaker LH
Engine and ECT ECU (A/T) <3–3>
Engine ECU (M/T) <3–3><4–11>
J18 Junction Connector
R 4(A), R 6(C), R 7(D) Radio and Player
S34(A), S35(B) Short Connector
A11 A/C Ambient Temp. Sensor No. 2
Combination Meter <27–5>
Behind the Combination Meter
J16 Junction Connector
J22 Junction Connector
Left Kick Panel
7.5A ECU–ACC
7.5A GAUGE
IG1 Relay
I14 Ignition SW
25A AM1
140A ALT
FL MAIN 3.0W
Battery
15A RAD NO. 1
30A DCC

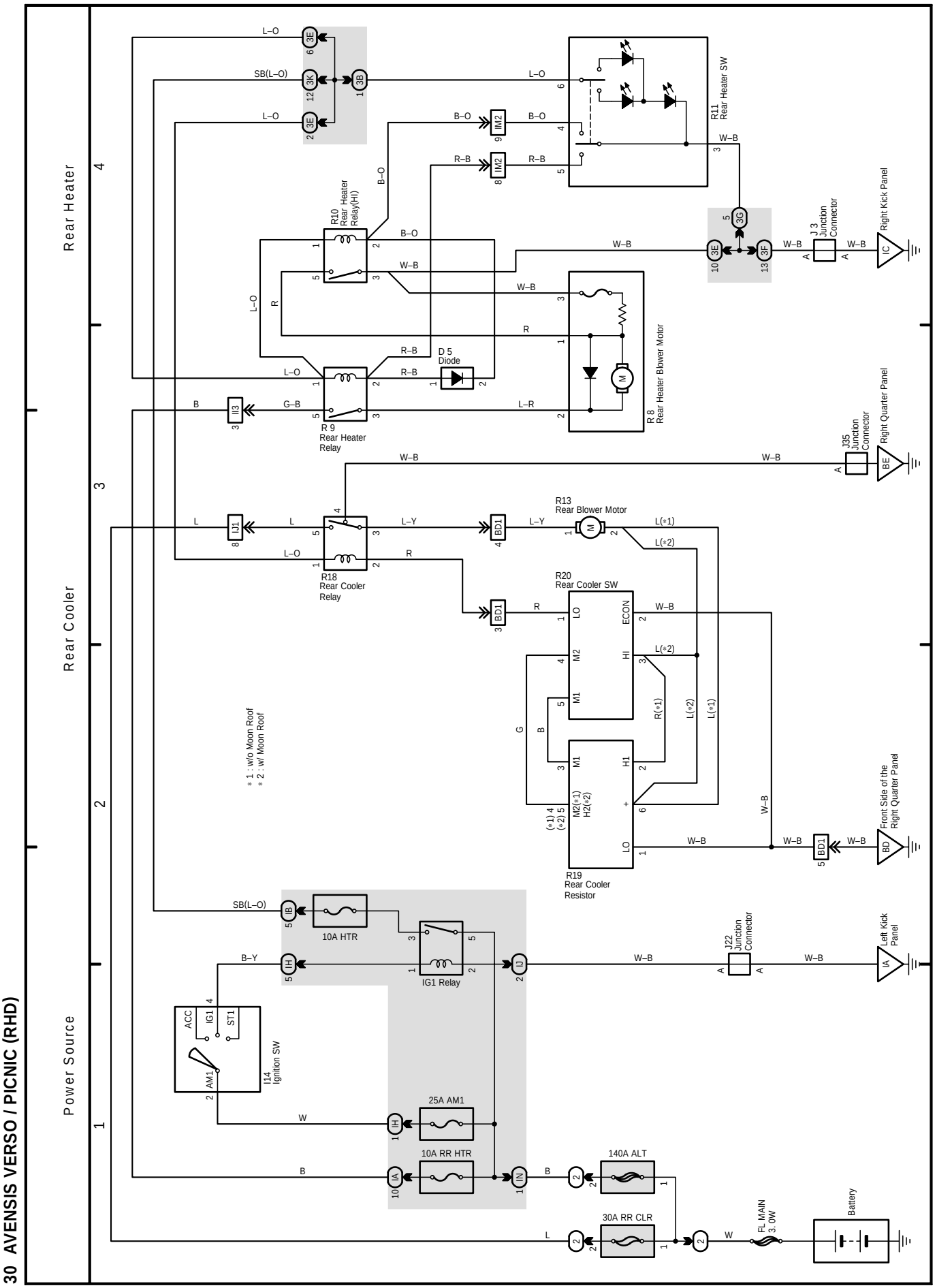

(Cont. next page)
*1 : 1CD–FTV
*2 : 1AZ–FE
Combination Meter
Power Source
27 AVENSIS VERSO / PICNIC (RHD)
C 8(A), C 9(B) Combination Meter
Temp.
Temp.
Fuel
Check Engine
O/D OFF
Glow
Oil Level
Charge
Fuel Filter Warning
Oil Pressure
SRS
Brake
ABS
Door
ABS System <15–4>
Engine and ECT ECU (A/T)<3–9> Engine ECU (M/T) <3–9><4–11>
Engine Control System <3–5><4–13>
ECT and A/T Indicator System<5–6>
Engine Control System <4–13>
Charging System <2–3>
SRS System <14–2>
ABS System <15–3>
Interior Light System<10–8>
F19 Fuse Holder
7. 5A MET–IG
S16(A), S17(B) Short Connector
J16 Junction Connector
E 6 Engine Oil Level Sensor
F11 Fuel Filter Warning SW
O 1 Oil Pressure SW
B 2 Brake Fluid Level Warning SW
J 9 Junction Connector
B 3 Brake Vacuum Warning SW
J21 Junction Connector
Near the Starter
J15 Junction Connector
Right Radiator Side Support
J22 Junction Connector
Left Kick Panel
7. 5A GAUGE
IG1 Relay
I14 Ignition SW
7. 5A ECU–B
30A DCC
30A AM2
25A AM1
140A ALT
Battery
FL MAIN 3. 0W


27 AVENSIS VERSO / PICNIC (RHD) (Cont' d)
Combination Meter
*1 : 1CD–FTV
8
7
6
5
Headlight System <6–4>
High Beam
Engine Immobiliser System<3–11><4–16>
Security
ECT and A/T Indicator System <5–6><5–7>
L
2
D
N
R
P
Rear Fog Light System<13–3>
Rear Fog
Front Fog Light System<13–3>
Front Fog
Turn Signal and Hazard Warning Light System <9–3><9–4>
Turn RH
Turn LH
Illumination System <8–2>
Illumination
Engine and ECT ECU (A/T)<3–10>
Engine ECU (M/T) <3–10><4–14>
W–L
Rheostat
Fuel
Tachometer
Speedometer
ODO
Seat Belt
C 8(A), C 9(B) Combination Meter
W–B
J 3 Junction Connector
Right Kick Panel
IC
S30(A), S31(B) Short Connector
BR
L–R
IC2
F18 Fuel Sender
J32 Junction Connector
Left Quarter Panel
BC
W–R
Body ECU <16–2>
Radio and Player <26–2>
A/C Amplifier <29–7>
(*1)
Engine and ECT ECU (A/T)<3–9>
Engine ECU (M/T) <3–9><4–11>
Seat Belt Warning System<23–4>


28 AVENSIS VERSO / PICNIC (RHD)
Power Source
Radiator Fan and Condenser Fan
* 1 : 1AZ–FE
* 2 : 1CD–FTV
C 3 Condenser Fan Motor
FAN NO. 3 Relay
FAN NO. 2 Relay
FAN NO. 1 Relay
D 4 Diode (Fan)
COMP Relay <29–8>
A/C Amplifier <29–8>
A/C Amplifier <29–7>
Engine and ECT ECU (A/T)<3–8> Engine ECU(M/T) <3–8>
P 2 Pressure SW
Single
W 2 Water Temp. SW
Left Radiator Side Support
R 1 Radiator Fan Motor
7.5A ECU–IG
IG1 Relay
25A AM1
i14 Ignition SW
ACC
IG1
ST1
AM1
i22 Junction Connector
Left Kick Panel
140A ALT
FL MAIN 3. 0W
Battery
30A(*1) 40A(*2) RDI
30A(*1) 40A(*2) CDS


(Cont. next page)
29 AVENSIS VERSO / PICNIC (RHD)
Power Source
Front Air Conditioner
* 1 : 1AZ–FE
* 2 : 1CD–FTV
B 6 Blower Relay (HI)
B 8 Blower Relay (M2)
B 7 Blower Relay (M1)
B 9(A), (B) Blower Resistor
B 5(A), (B) Blower Motor
HTR Relay
IG1 Relay
10A HTR
7. 5A GAUGE
25A AM1
50A HTR
140A ALT
7. 5A ECU–B
30A DCC
FL MAIN 3. 0W
Battery
I14 Ignition SW
ACC
IG1
ST1
AM1
J8 Junction Connector
J22 Junction Connector
Right Kick Panel
Left Radiator Side Support
Left Kick Panel


29 AVENSIS VERSO / PICNIC (RHD) (Cont' d)
Front Air Conditioner
* 1 : 1AZ–FE
* 2 : 1CD–FTV
* 3 : General
* 4 : Except General
COMP Relay
Diode (Fan) <28–4>
Engine and ECT ECU (A/T)<3–8>
Engine ECU (M/T)<3–8>
A/C Magnetic Clutch
A/C Lock Sensor
A 1 A/C Lock Sensor A/C Magnetic Clutch
J16 Junction Connector
S32(A), S33(B) Short Connector
FAN NO. 3 Relay<28–4>
Engine and ECT ECU (A/T)<3–7> Engine (M/T) <3–7><4–11>
Pressure SW<28–4> Water Temp. SW<28–4>
P 2 Pressure SW
Dual
A15 A/C Evaporator Temp. Sensor
Combination Meter<27–5>
Engine and ECT ECU (A/T)<3–10> Engine ECU (M/T) <3–10><4–14>
Front Side of the Right Quarter Panel
Right Kick Panel
J 3 Junction Connector
A18 Air Mix Control Servo Motor
A19 Air Vent Mode Control Servo Motor
A17 Air Inlet Control Servo Motor
A12(A), A13(B), A14(C) A/C Amplifier
H15 Heater Control Panel


Rear Heater
Rear Cooler
Power Source
R11 Rear Heater SW
R10 Rear Heater Relay(HI)
R 9 Rear Heater Relay
R 8 Rear Heater Blower Motor
D 5 Diode
J 3 Junction Connector
Right Kick Panel
J35 Junction Connector
Right Quarter Panel
R13 Rear Blower Motor
R18 Rear Cooler Relay
R20 Rear Cooler SW
R19 Rear Cooler Resistor
Front Side of the Right Quarter Panel
* 1 : w/o Moon Roof
* 2 : w/ Moon Roof
10A HTR
IG1 Relay
J22 Junction Connector
Left Kick Panel
I14 Ignition SW
25A AM1
10A RR HTR
140A ALT
30A RR CLR
FL MAIN 3.0W
Battery

FOREWORD

This supplement provides information covering changes in the electrical system specifications of the AVENSIS VERSO / PICNIC which were made in Oct., 2003.

Applicable models: ACM20, 21 Series
CLM20 Series

For information which is not mentioned in this manual, please refer to the following Electrical Wiring Diagram Manuals:

Manual Name	Pub. No.
● AVENSIS VERSO / PICNIC Electrical Wiring Diagram	EWD450E
● AVENSIS VERSO / PICNIC Chassis and Body Repair Manual	RM1032E
● TOYOTA New Car Features	NCF258E

All information in this manual is based on the latest product information at the time of publication. However, specifications and procedures are subject to change without notice.

TOYOTA MOTOR CORPORATION

NOTICE

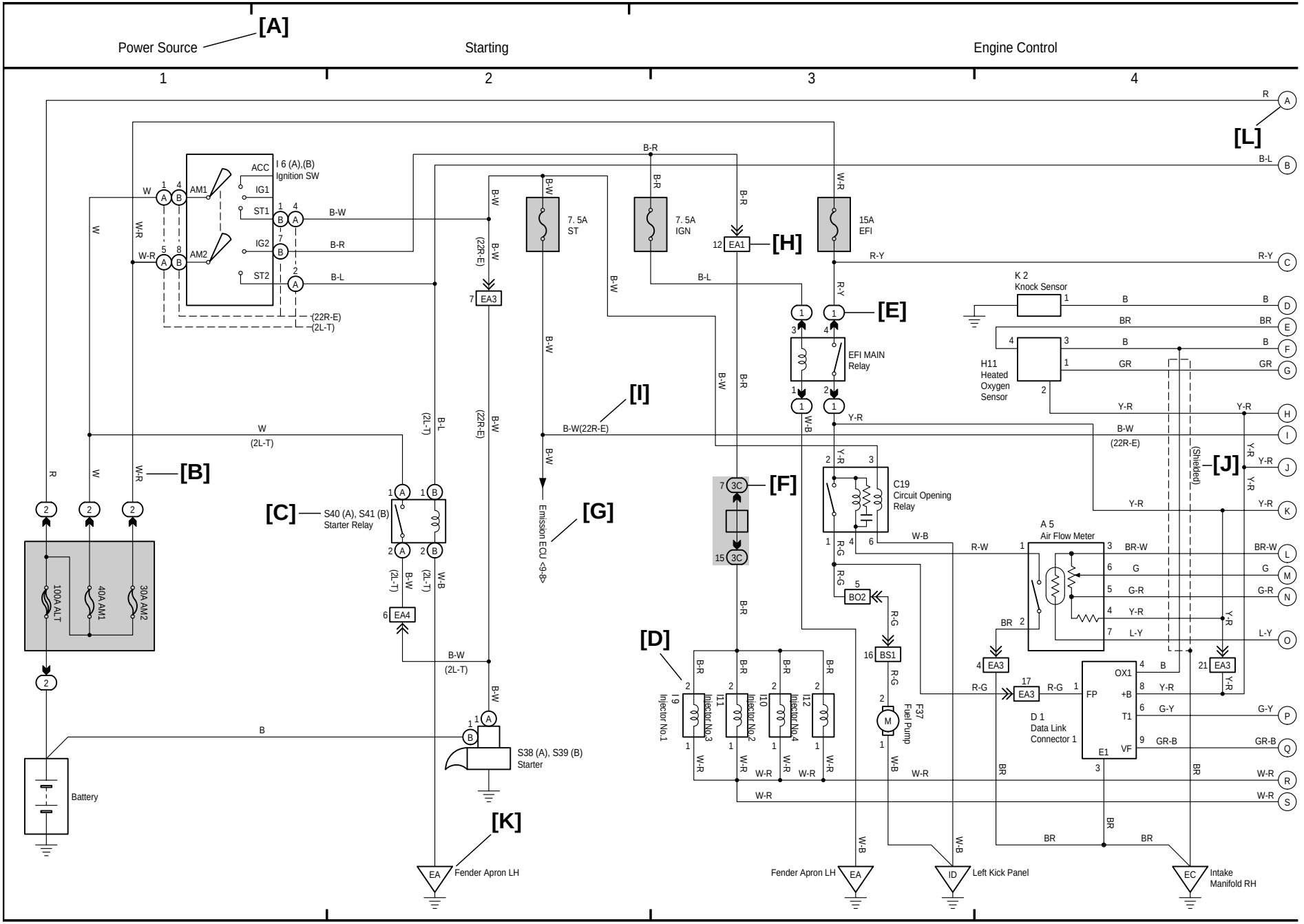
When handling supplemental restraint system components (removal, installation or inspection, etc.), always follow the direction given in the repair manuals listed above to prevent accidents and supplemental restraint system malfunction.

This manual consists of the following 8 sections:

No.	Section	Description
A	INDEX	Index of the contents of this manual.
	INTRODUCTION	Brief explanation of each section.
B	HOW TO USE THIS MANUAL	Instructions on how to use this manual.
C	ABBREVIATIONS	Defines the abbreviations used in this manual.
D	RELAY LOCATIONS	Shows position of the Electronic Control Unit, Relays, Relay Block, etc. This section is closely related to the wiring diagram.
E	ELECTRICAL WIRING ROUTING	Describes position of the Parts Connectors, Ground points, etc. This section is closely related to the wiring diagram.
F	CONNECTOR LIST	Describes the form of the connectors for the parts appeared in this book. This section is closely related to the wiring diagram.
G	PART NUMBER OF CONNECTORS	Indicates the part number of the connectors used in this manual.
H	OVERALL ELECTRICAL WIRING DIAGRAM	Provides circuit diagrams showing the circuit connections.

HOW TO READ THIS SECTION

* The system shown here is an EXAMPLE ONLY. It is different to the actual circuit shown in the wiring diagram section.



[A] : System Title

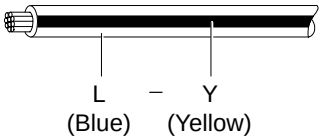
[B] : Indicates the wiring color.

Wire colors are indicated by an alphabetical code.

B	= Black	W	= White	BR	= Brown
L	= Blue	V	= Voilet	SB	= Sky Blue
R	= Red	G	= Green	LG	= Light Green
P	= Pink	Y	= Yellow	GR	= Gray
O	= Orange				

The first letter indicates the basic wire color and the second letter indicates the color of the stripe.

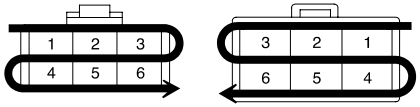
Example: L – Y



[C] : The position of the parts is the same as shown in the wiring diagram and wire routing.

[D] : Indicates the pin number of the connector.
The numbering system is different for female and male connectors.

Example: Numbered in order from upper left to lower right / Numbered in order from upper right to lower left



Female Male

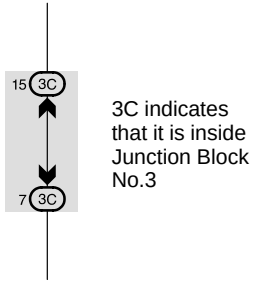
The numbering system for the overall wiring diagram is the same as above.

[E] : Indicates a Relay Block. No shading is used and only the Relay Block No. is shown to distinguish it from the J/B.

Example: (1) Indicates Relay Block No.1

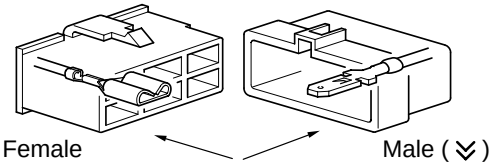
[F] : Junction Block (The number in the circle is the J/B No. and the connector code is shown beside it).
Junction Blocks are shaded to clearly separate them from other parts.

Example



[G] : Indicates related system.

[H] : Indicates the wiring harness and wiring harness connector.
The wiring harness with male terminal is shown with arrows (»).
Outside numerals are pin numbers.

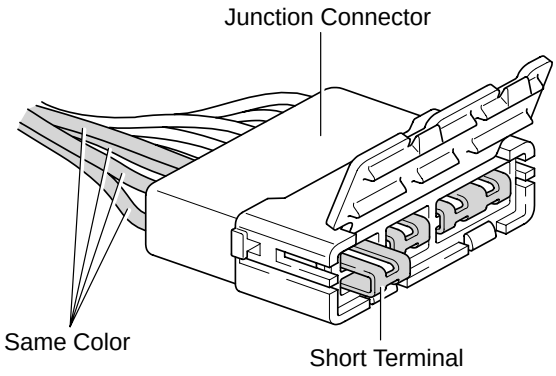


[I] : ( ) is used to indicate different wiring and connector, etc. when the vehicle model, engine type, or specification is different.

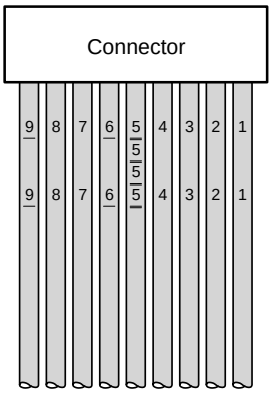
[J] : Indicates a shielded cable.

[K] : Indicates and located on ground point.

[L] : The same code occuring on the next page indicates that the wire harness is continuous.



Junction connector in this manual include a short terminal which is connected to a number of wire harnesses. Always perform inspection with the short terminal installed. (When installing the wire harnesses, the harnesses can be connected to any position within the short terminal grouping. Accordingly, in other vehicles, the same position in the short terminal may be connected to a wire harness from a different part.)
Wire harness sharing the same short terminal grouping have the same color.



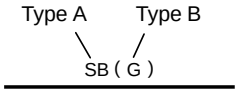
There are two types of wire harness for the instrument panel on AVENSIS VERSO / PICNIC.

Type A : The wire harness that uses the color–coded wire.

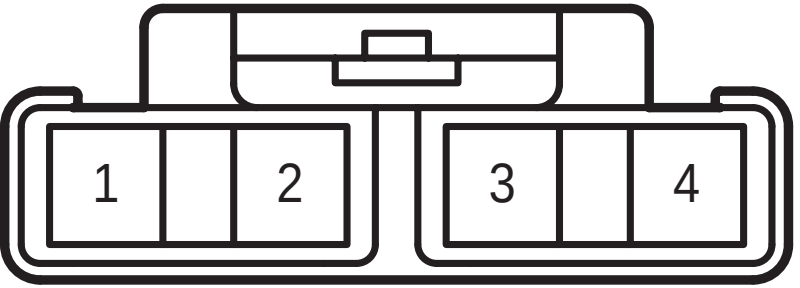
Type B : The wire harness that uses the same colored wire. (Not color–coded)

This means that there is a case where the wire harness used for even the same section may have different colored wire depending on the models.
Therefore, the wire colors are also mentioned in this manual as follows.

<Example>



In case of using the same colored wires, each terminal number is printed on the wire as shown in the illustration on the left in order to distinguish each wiring.
Be sure to connect the terminal to the same place as indicated by the terminal number printed on the wire after disconnecting the terminal from the connector.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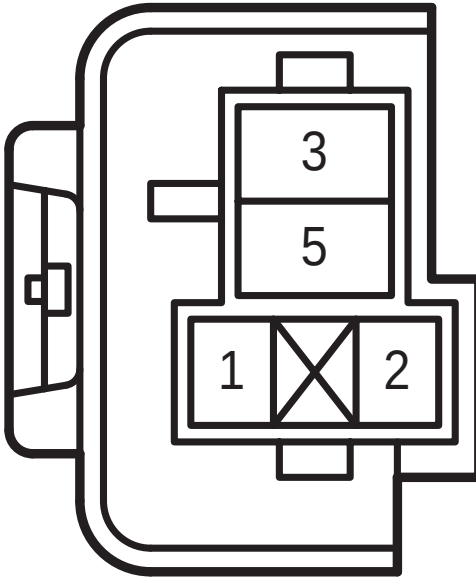
3
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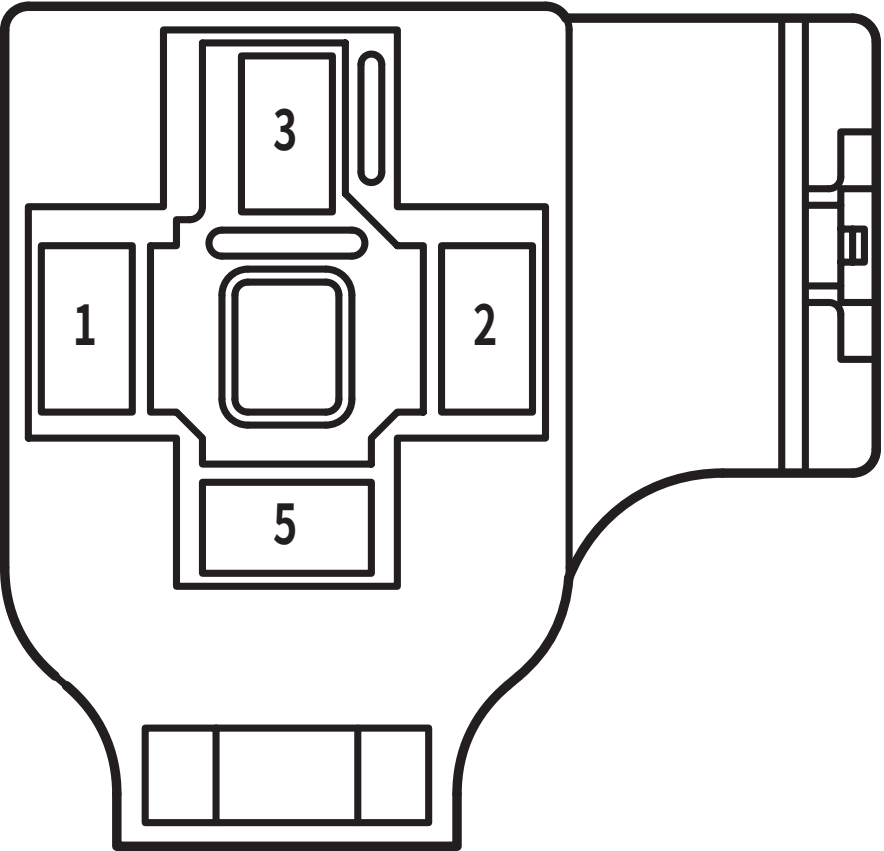
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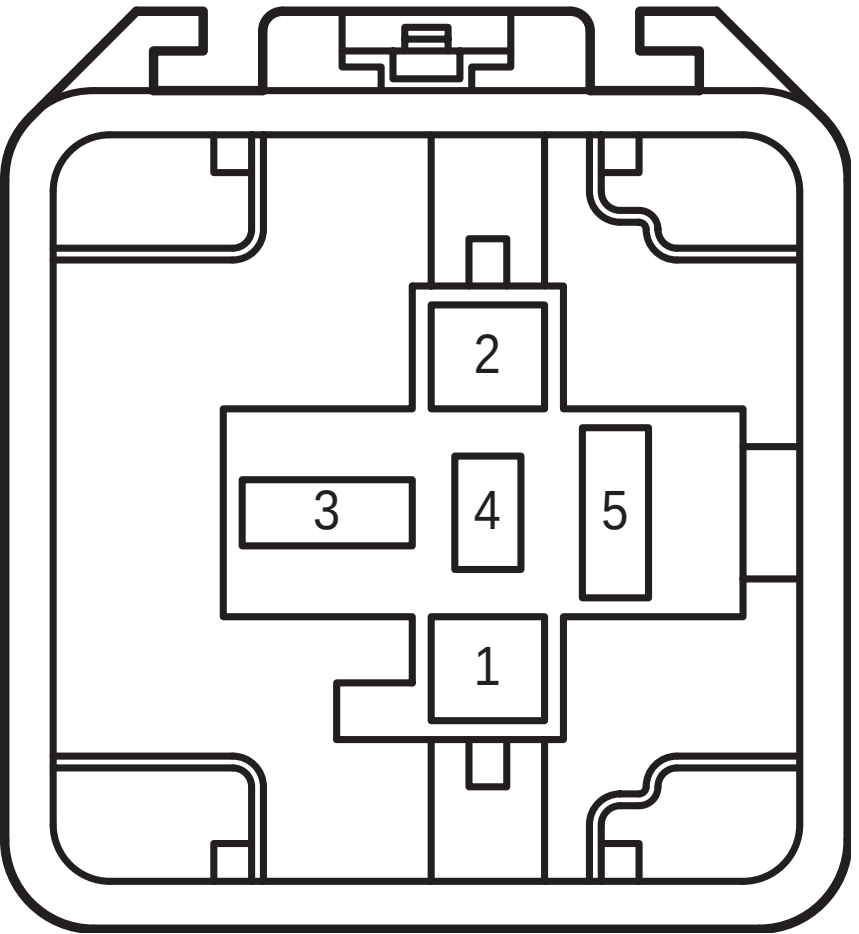
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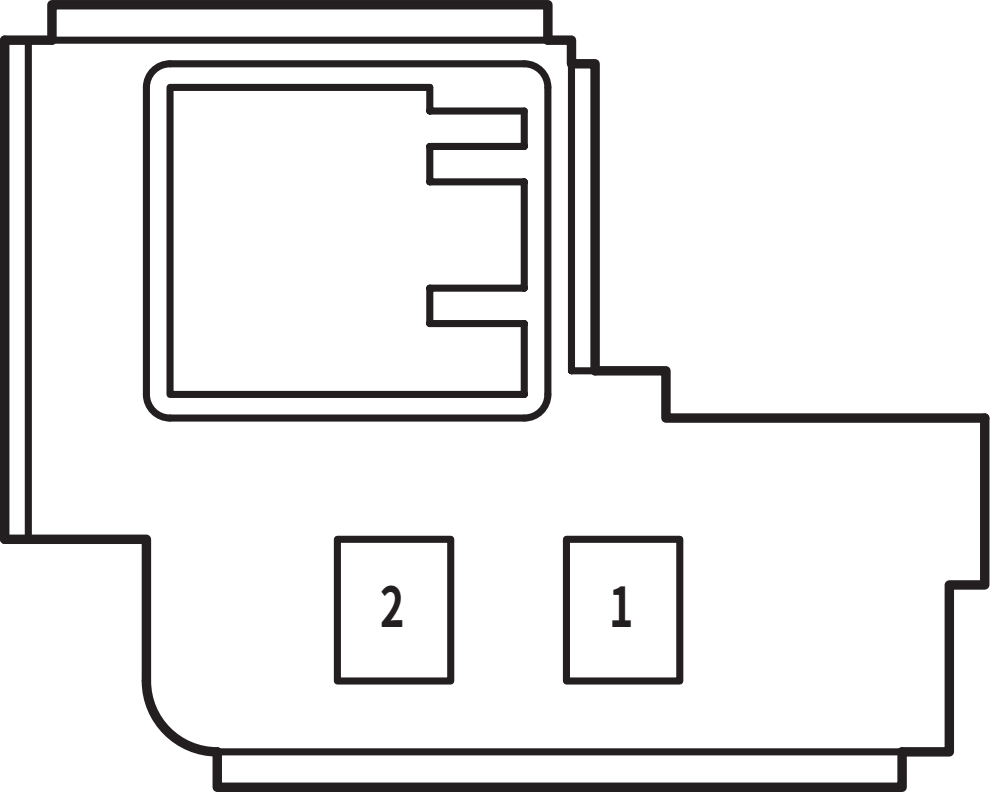
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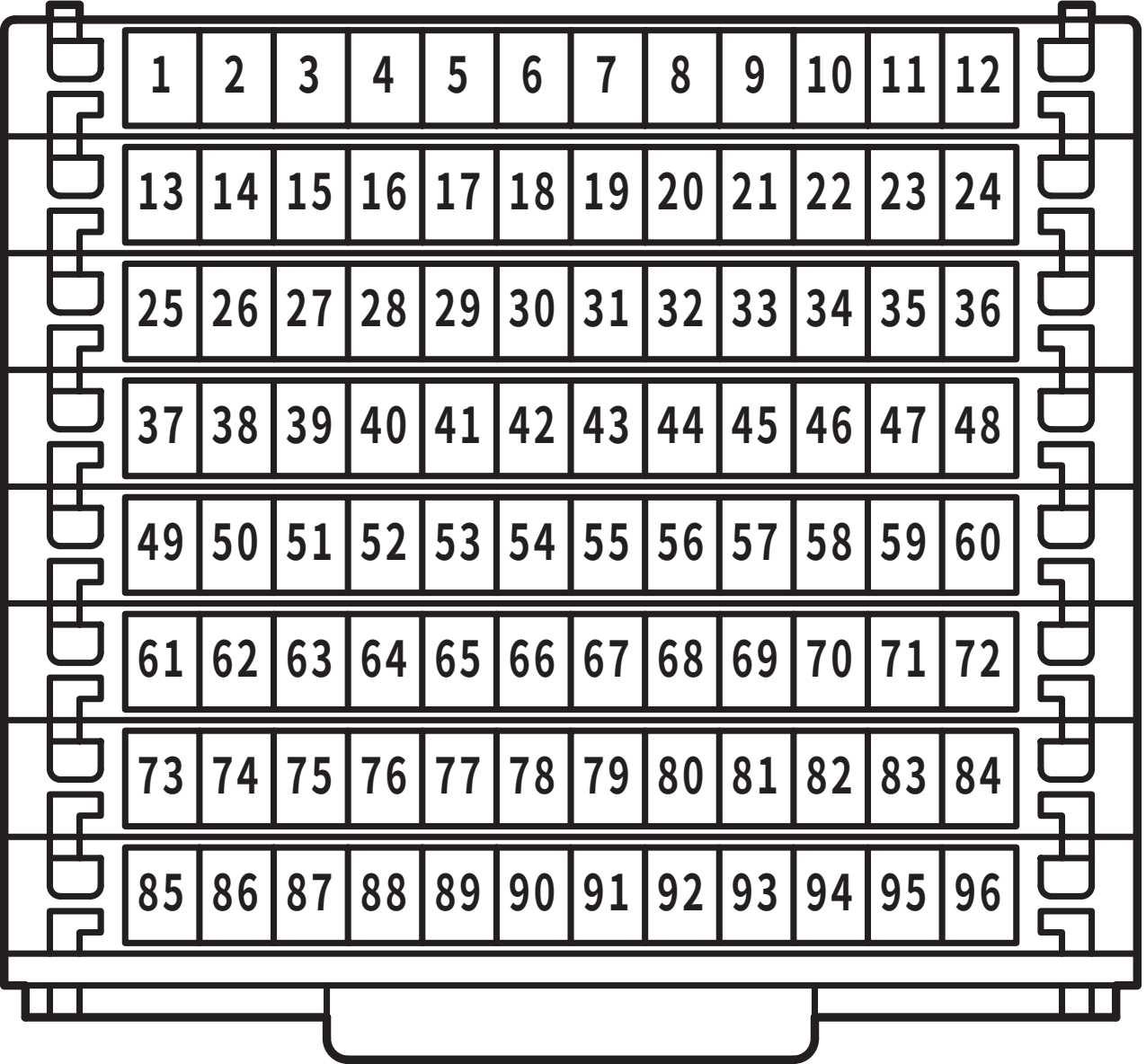
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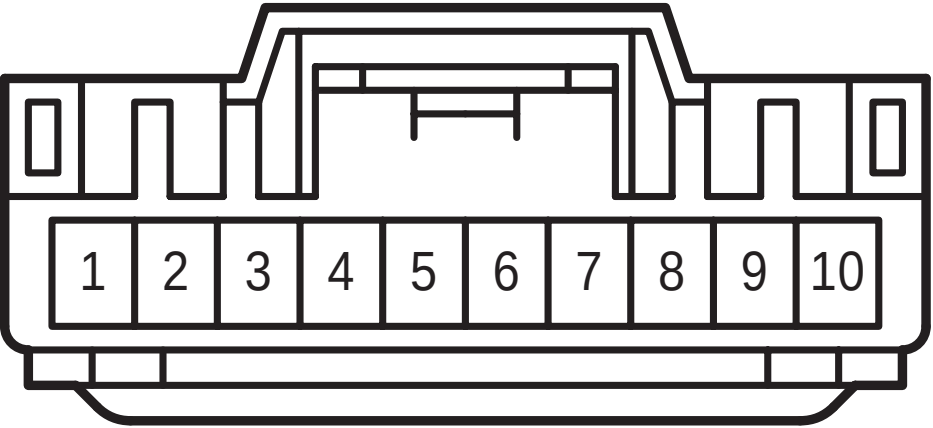
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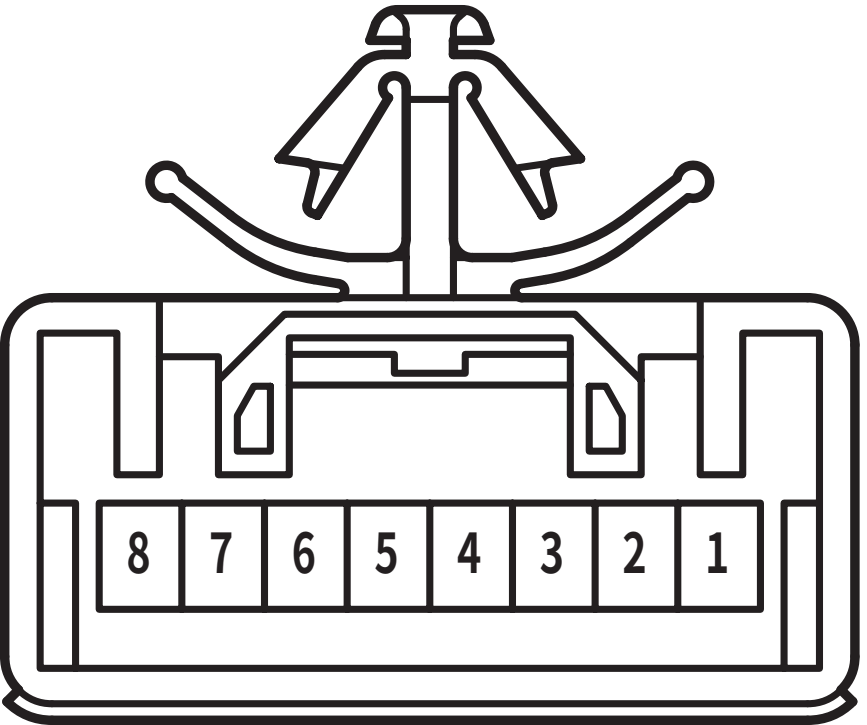
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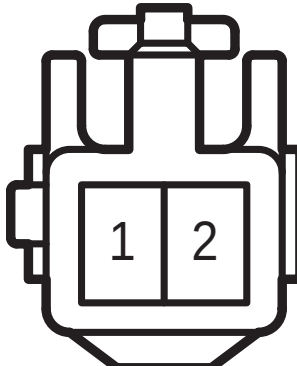
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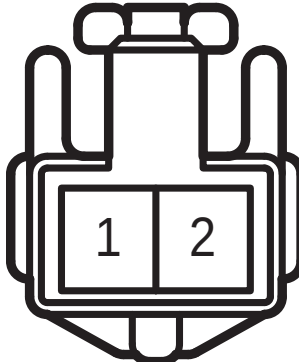
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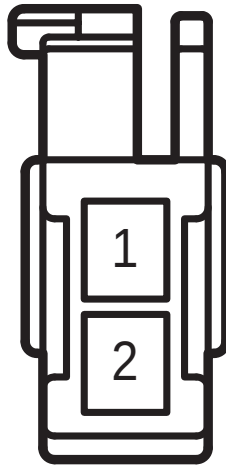
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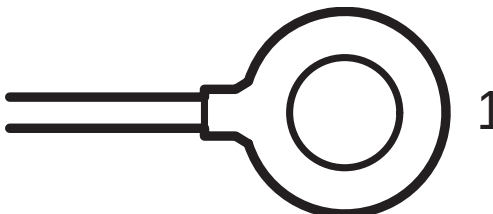
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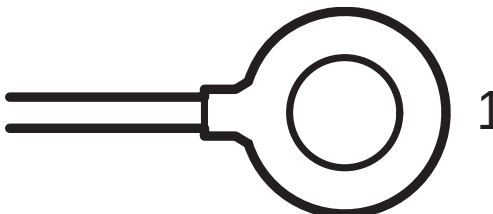
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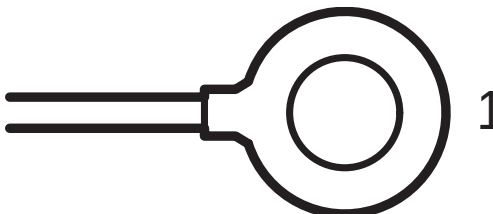
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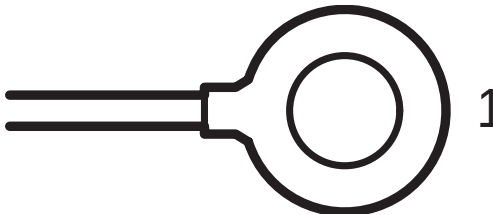
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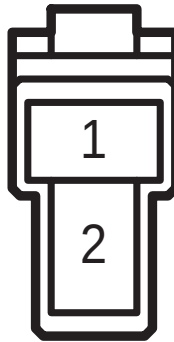
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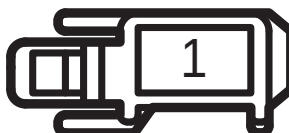
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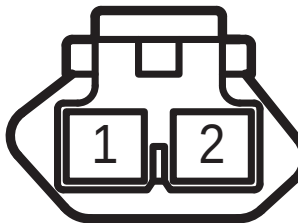
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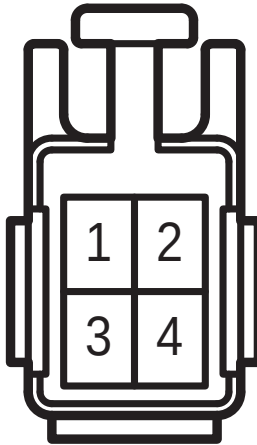
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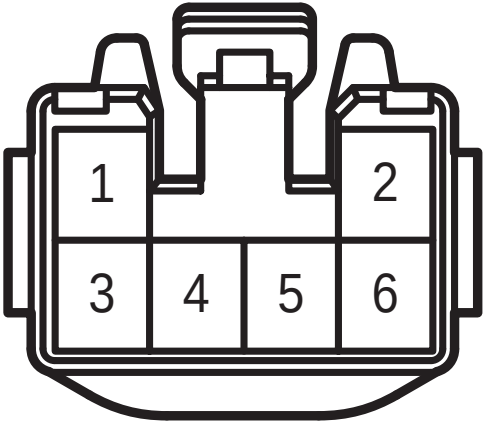
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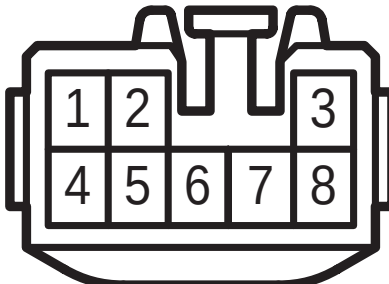
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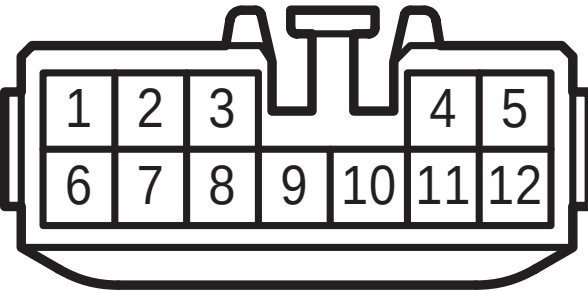
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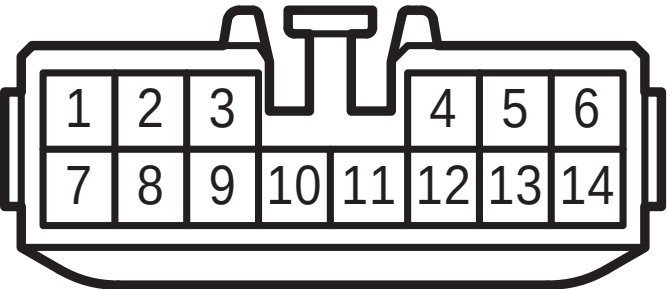
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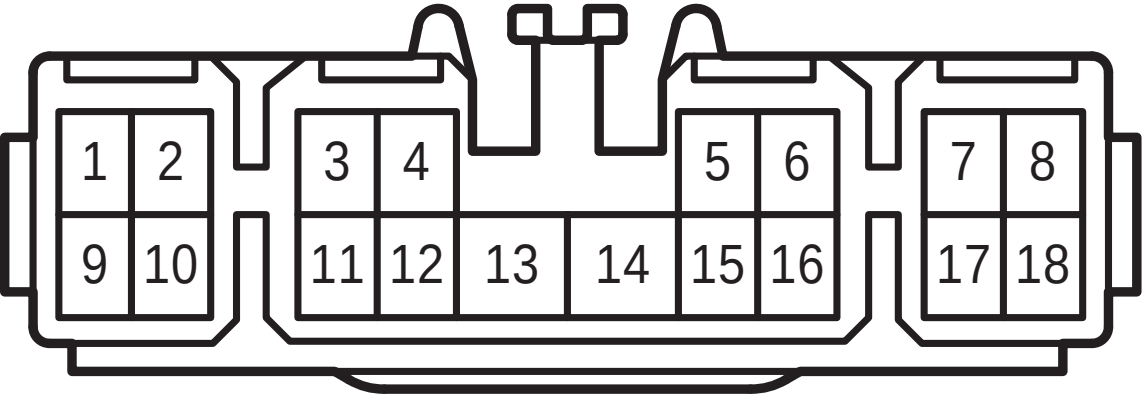
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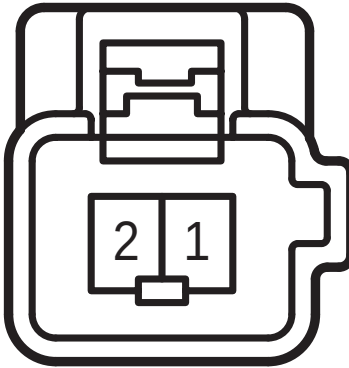
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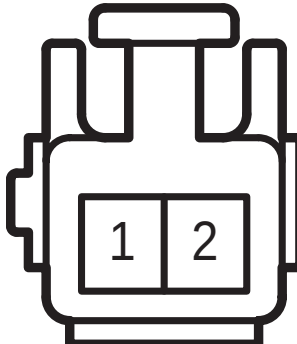
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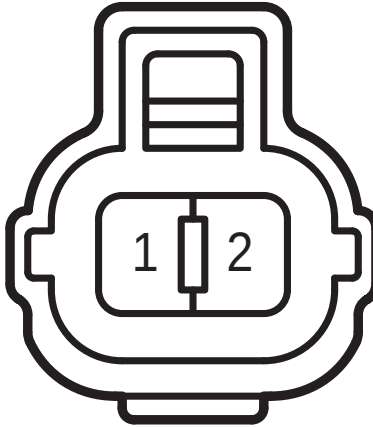
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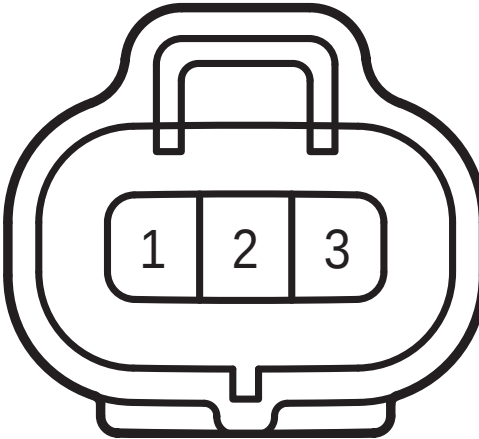
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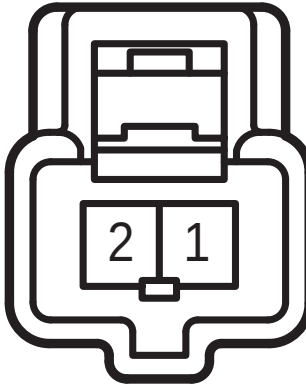
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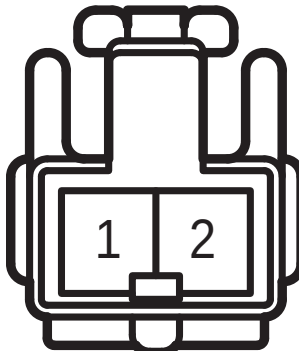
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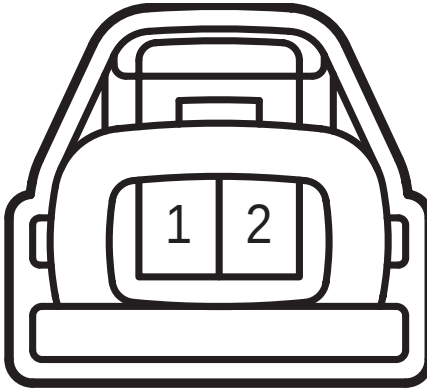
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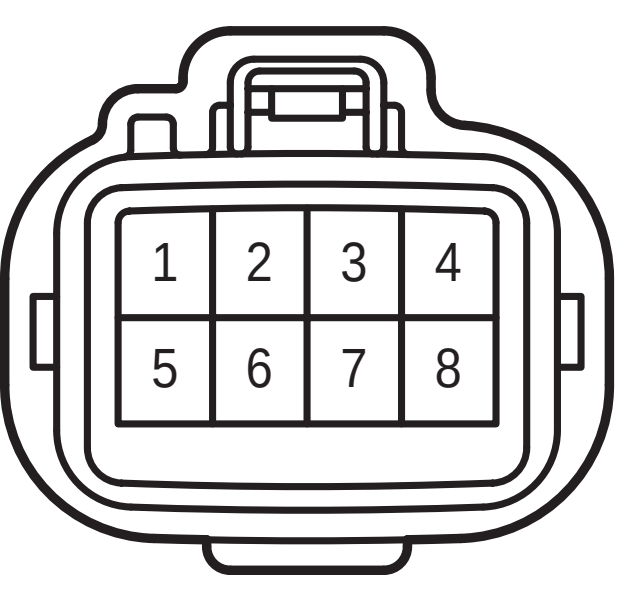
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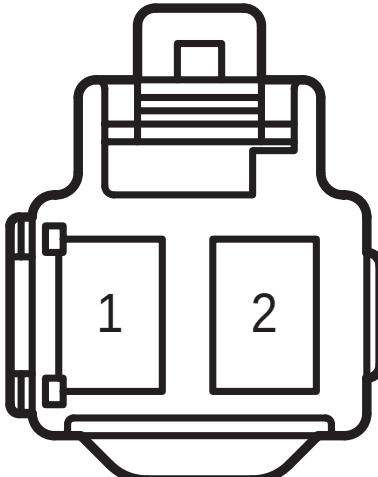
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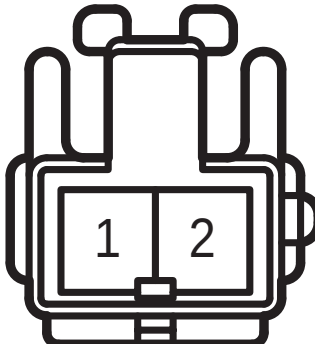
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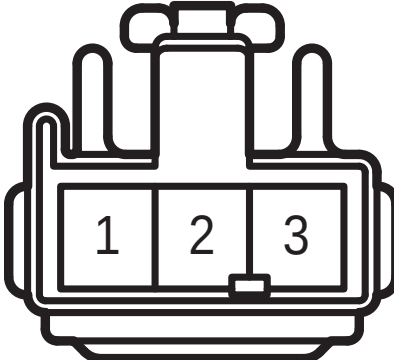
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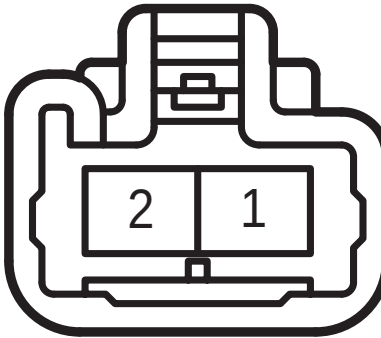
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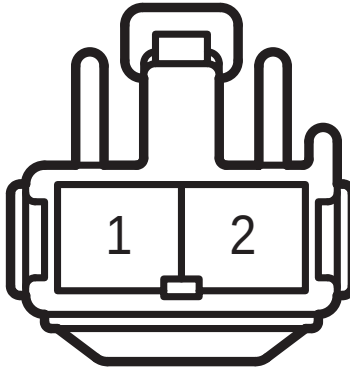
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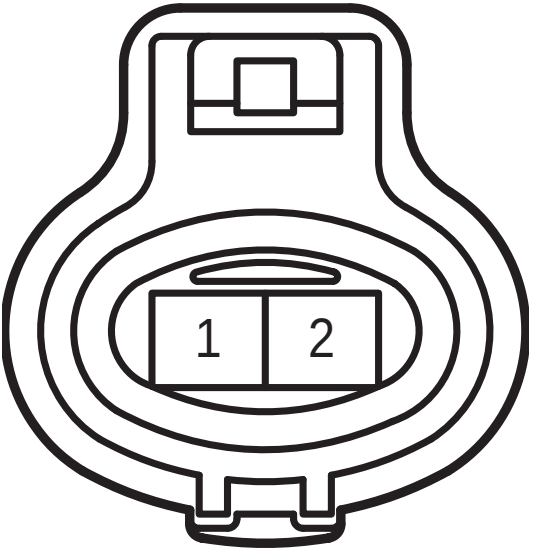
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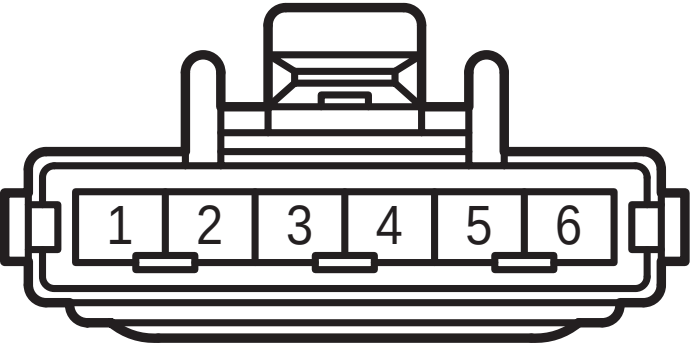
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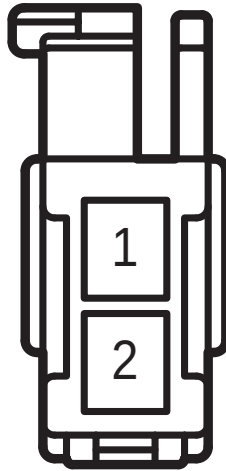
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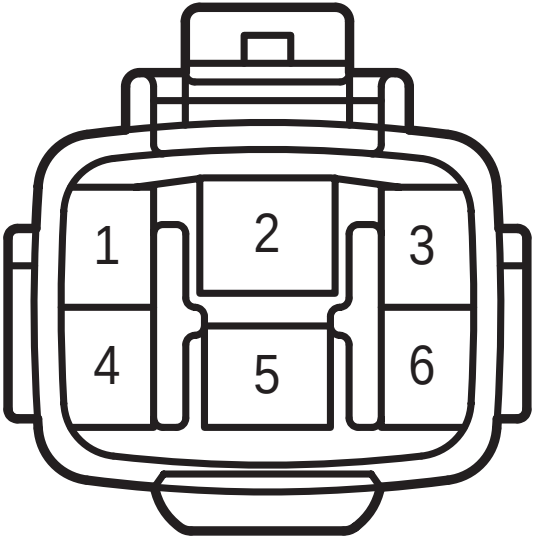
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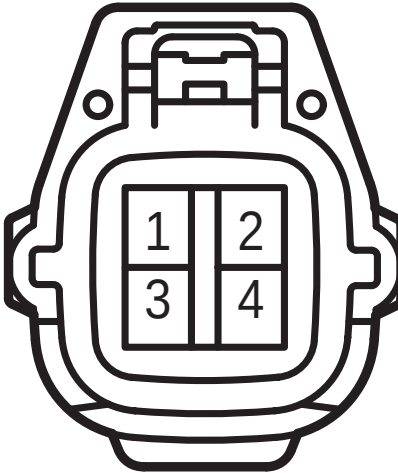
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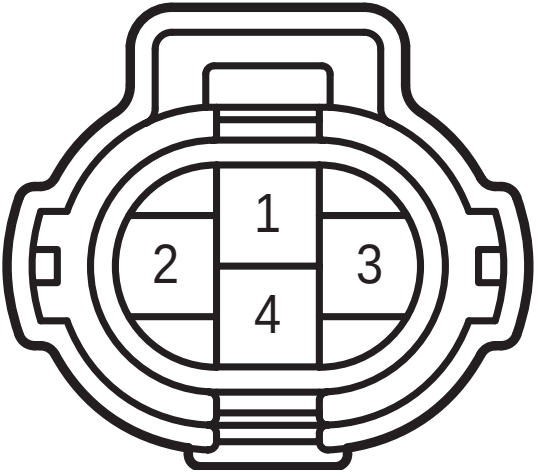
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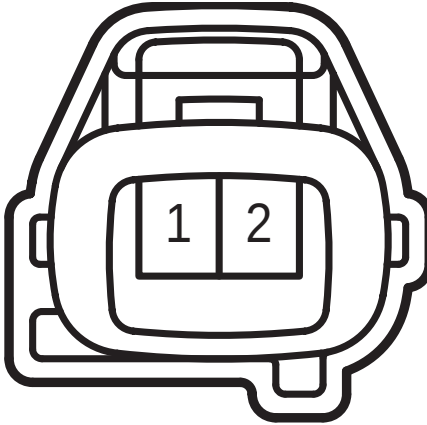
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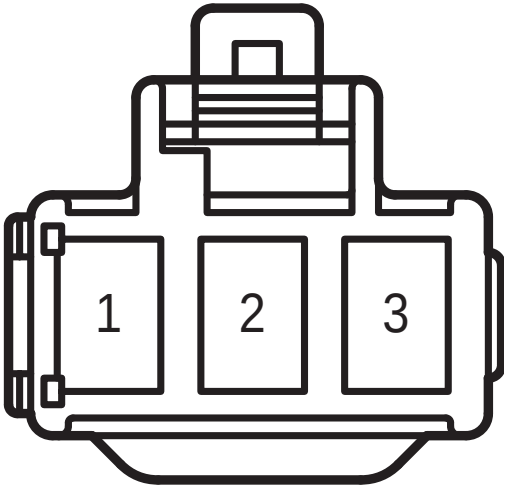
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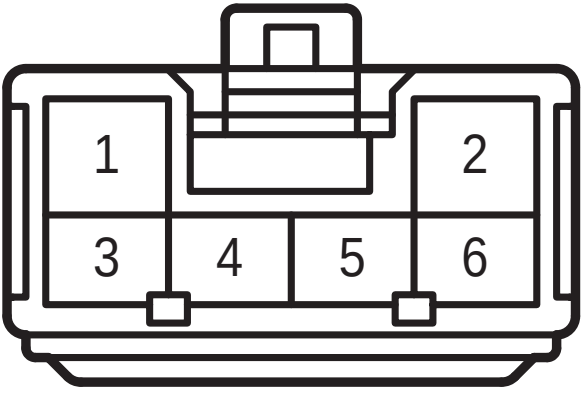
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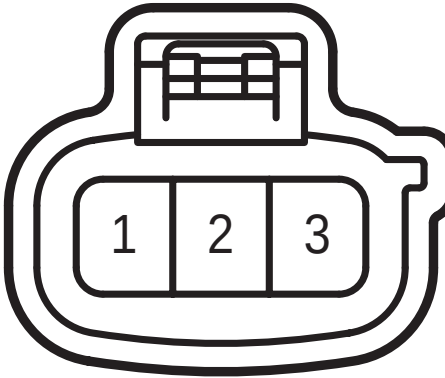
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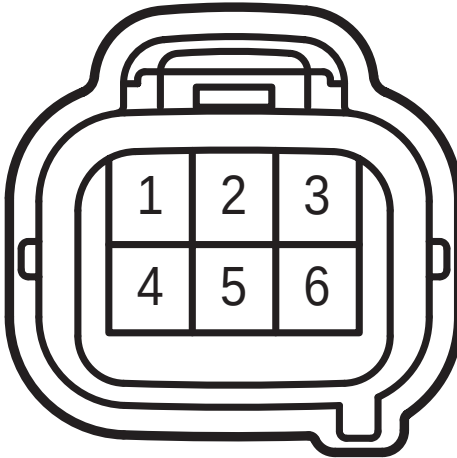
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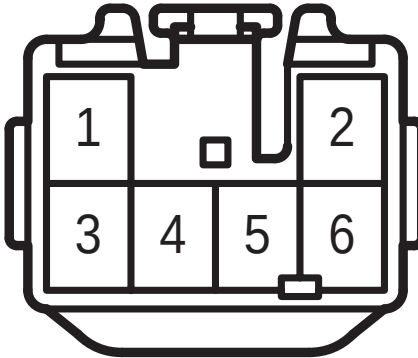
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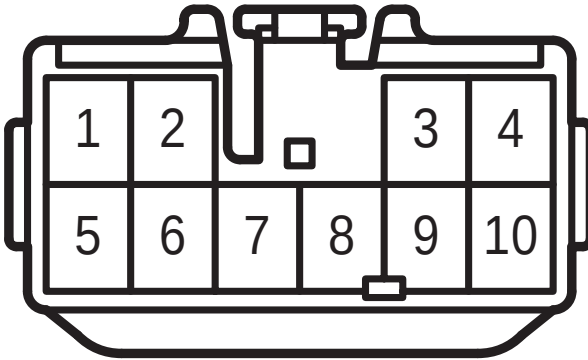
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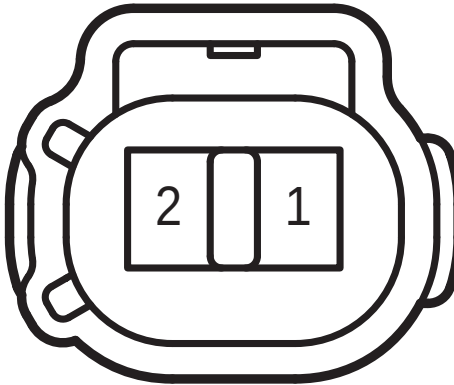
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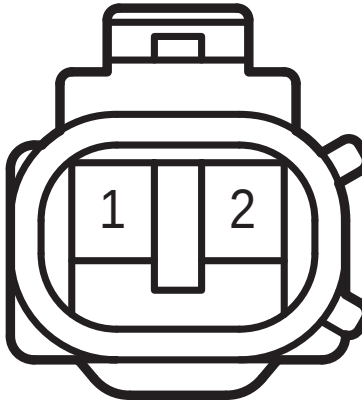
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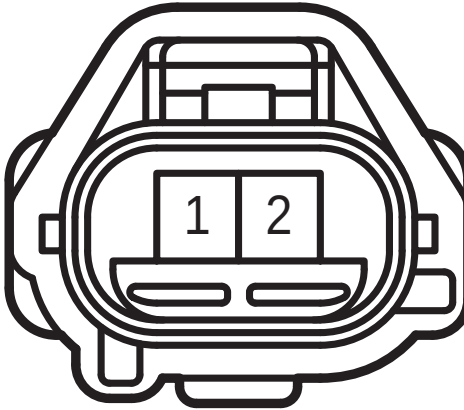
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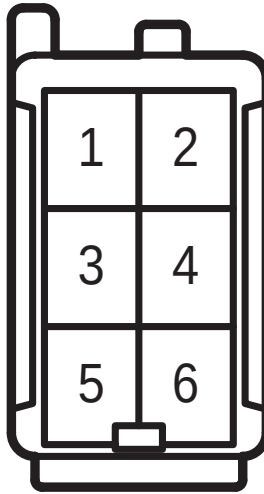
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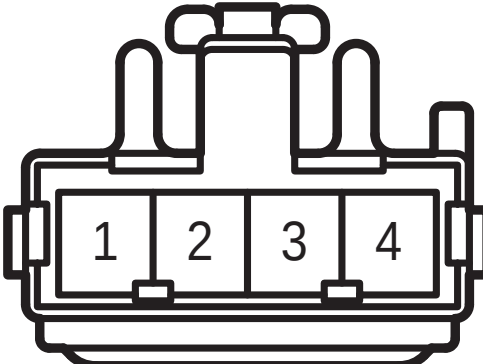
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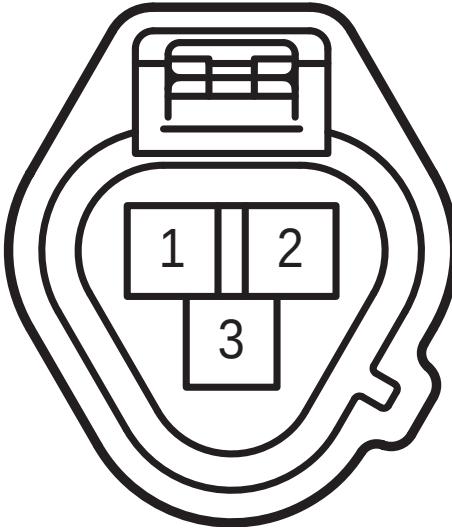
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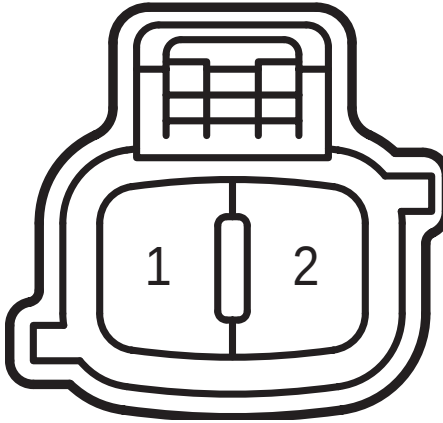
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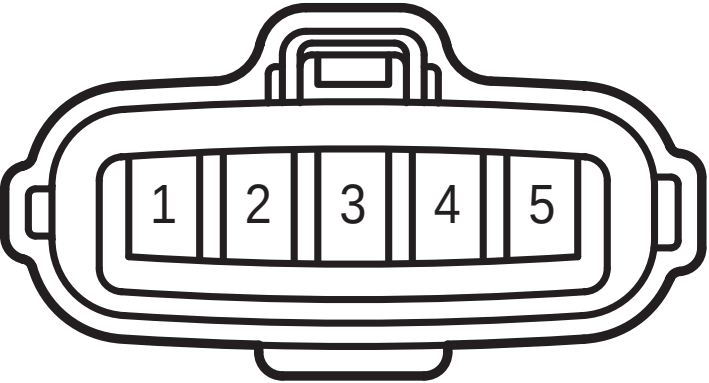
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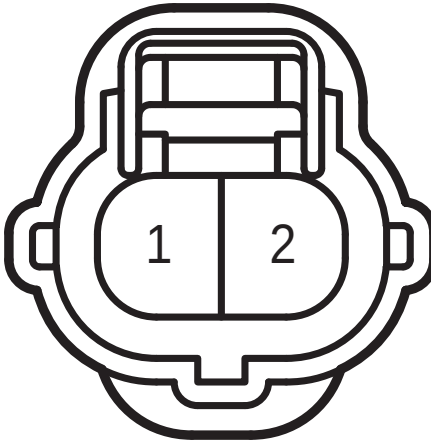
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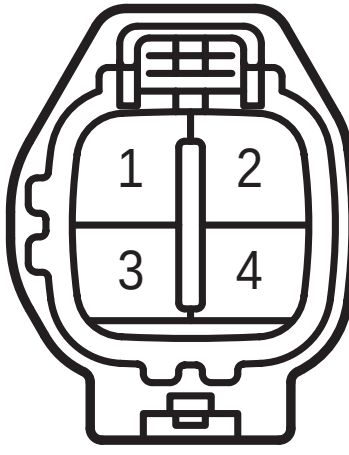
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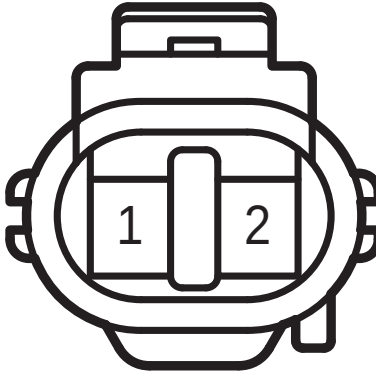
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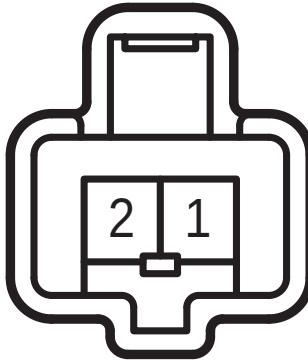
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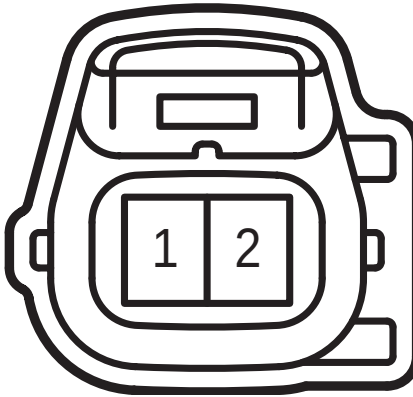
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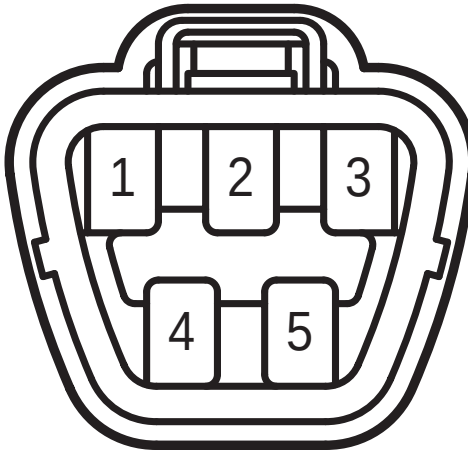
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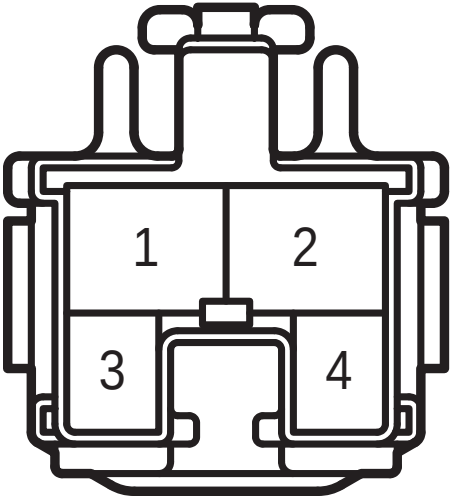
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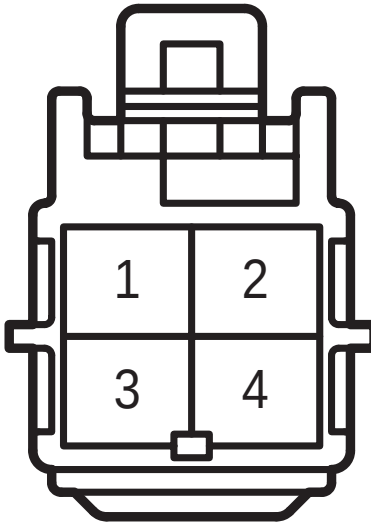
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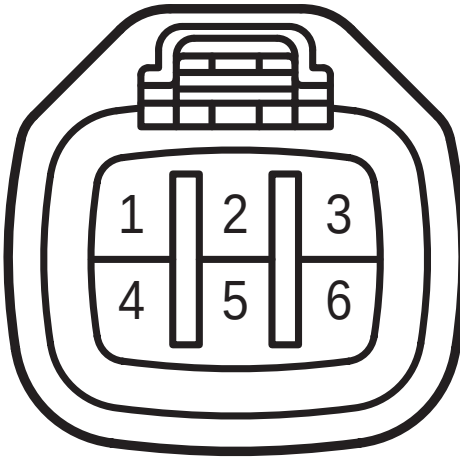
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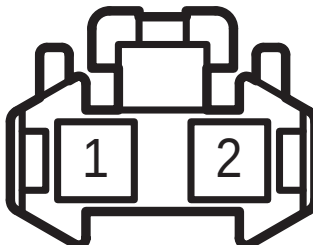
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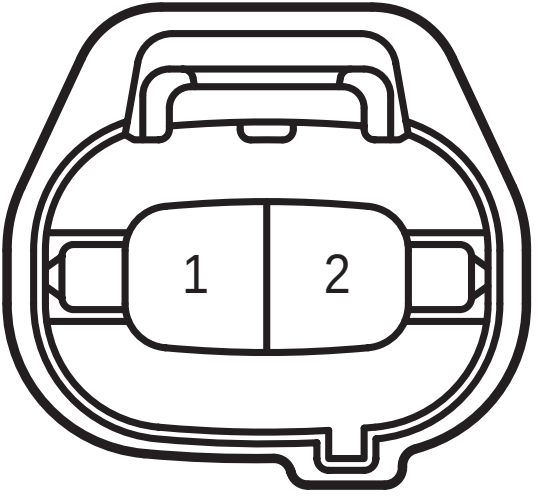
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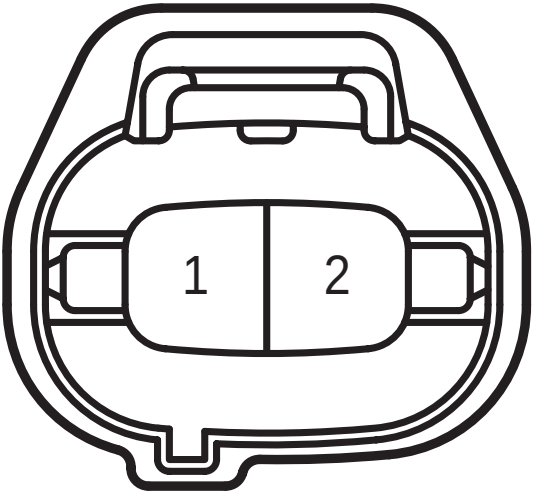
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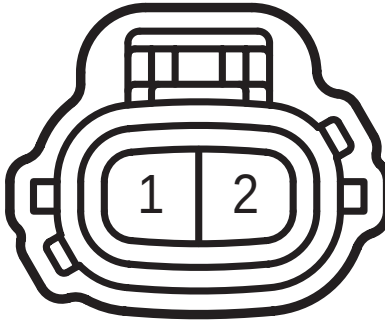
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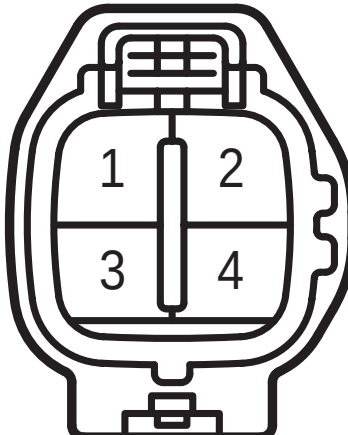
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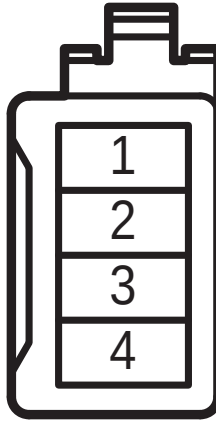
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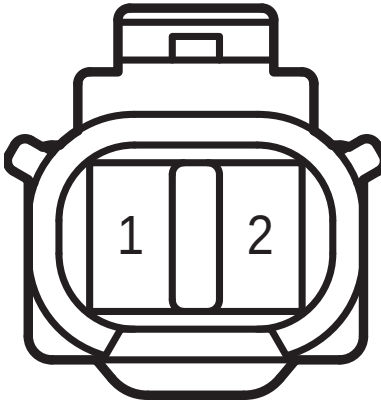
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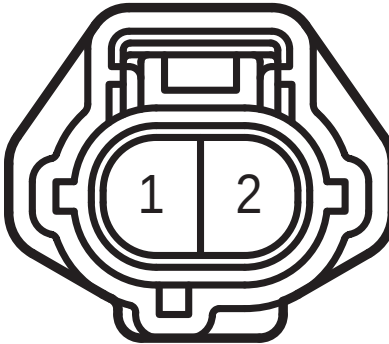
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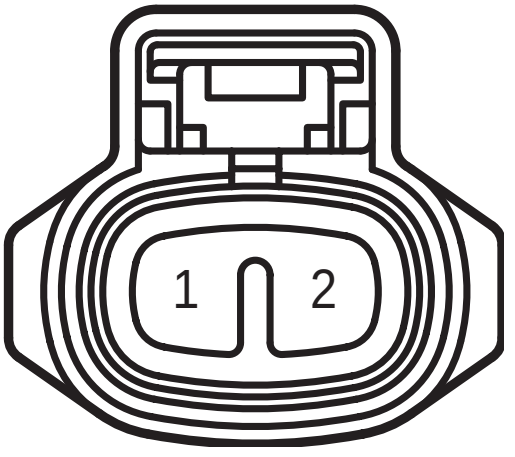
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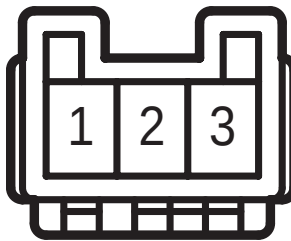
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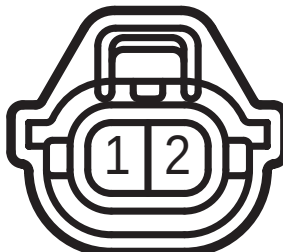
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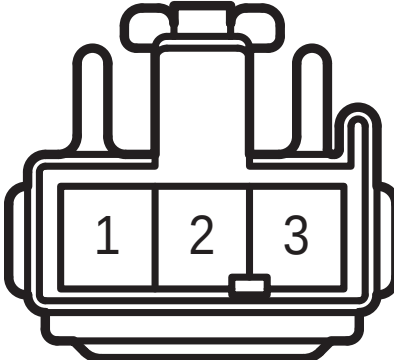
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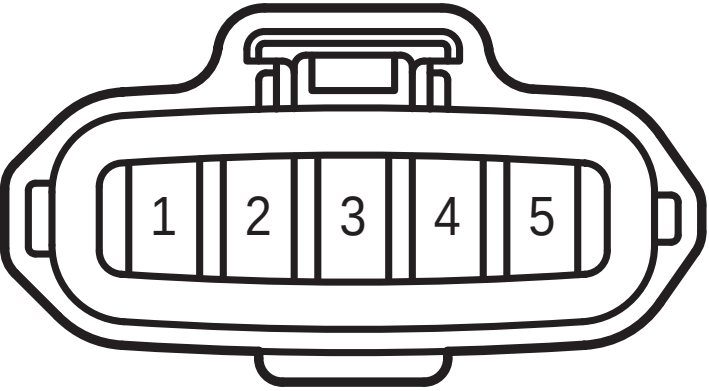
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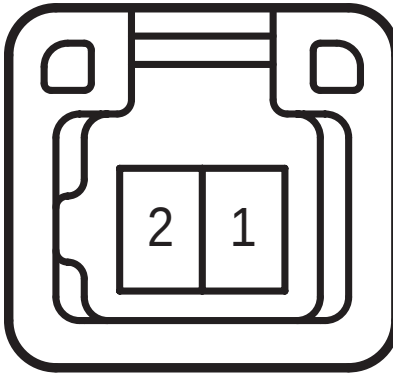
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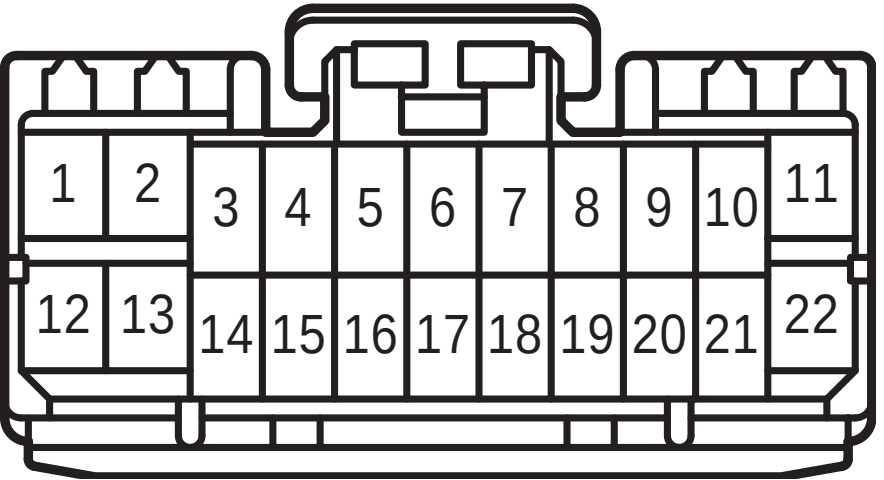
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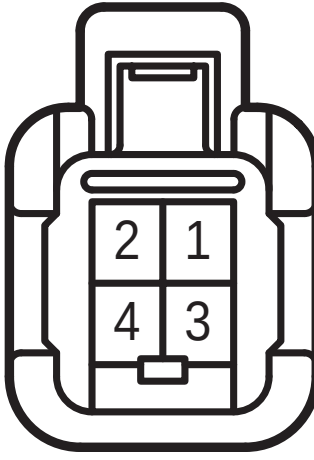
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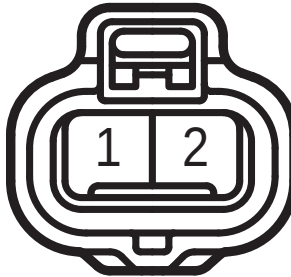
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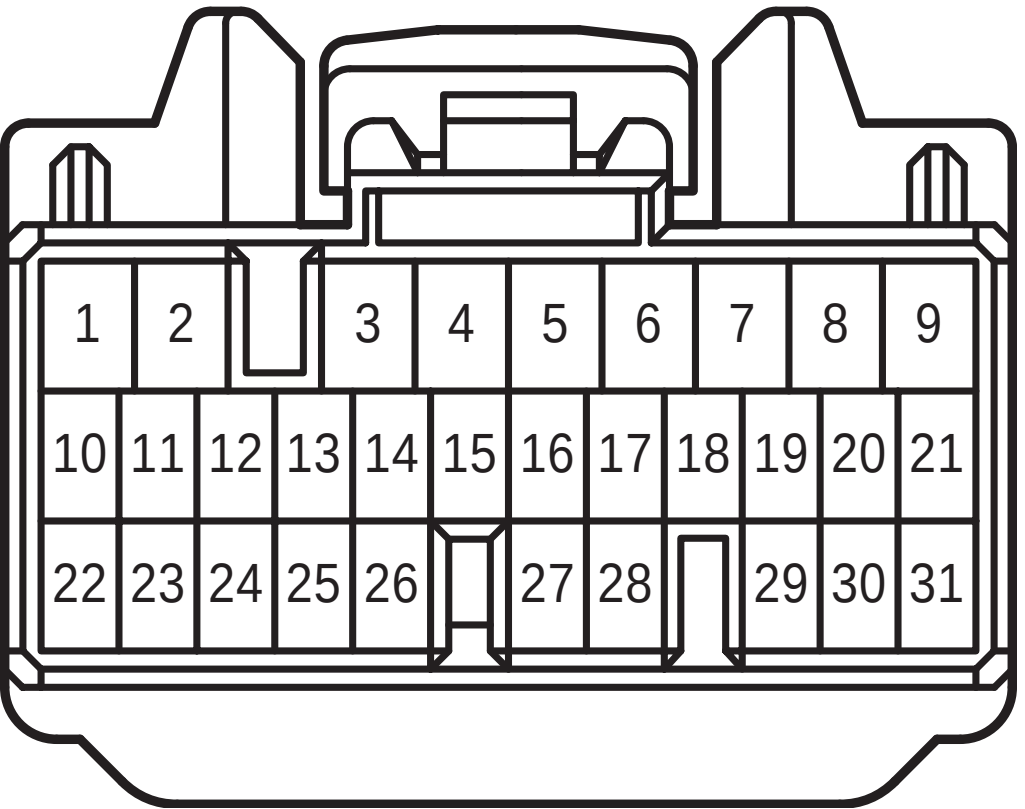
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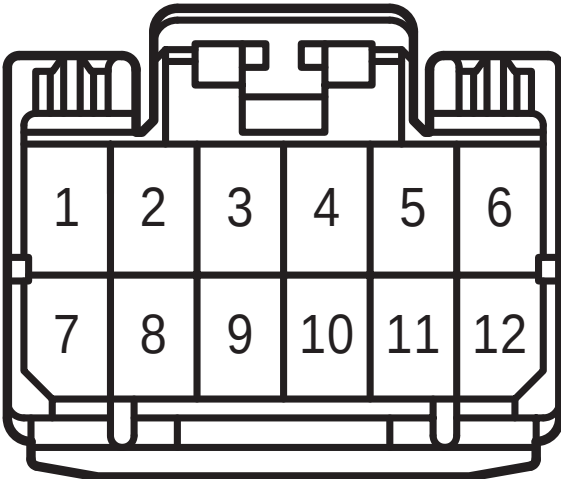
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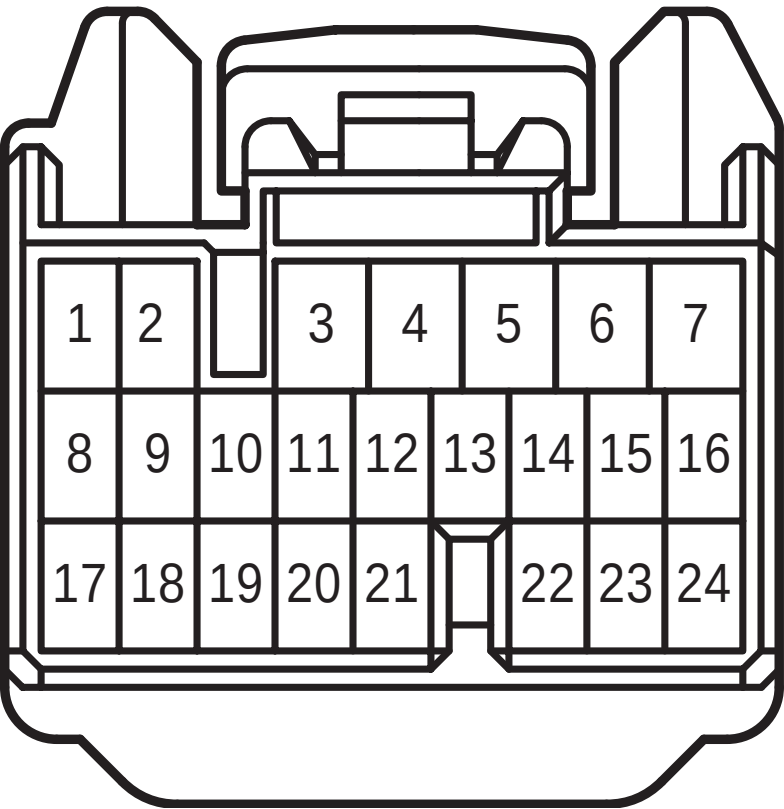
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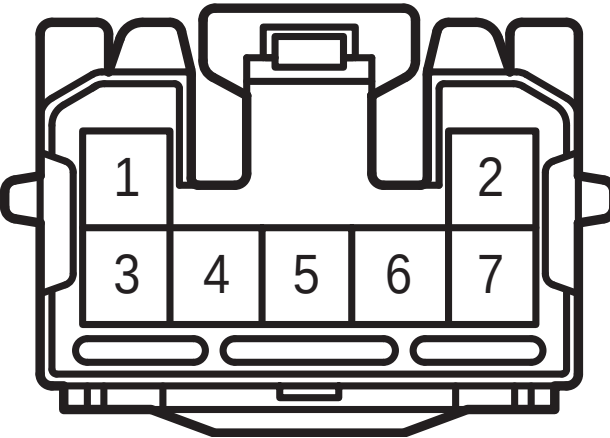
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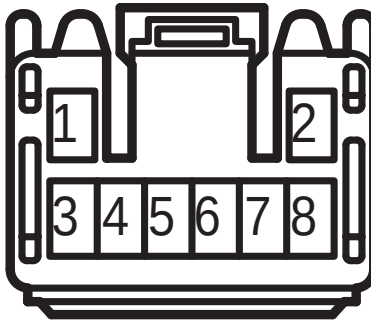
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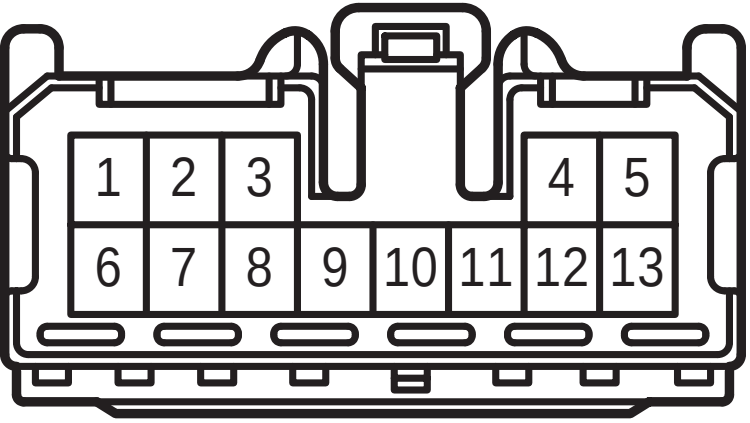
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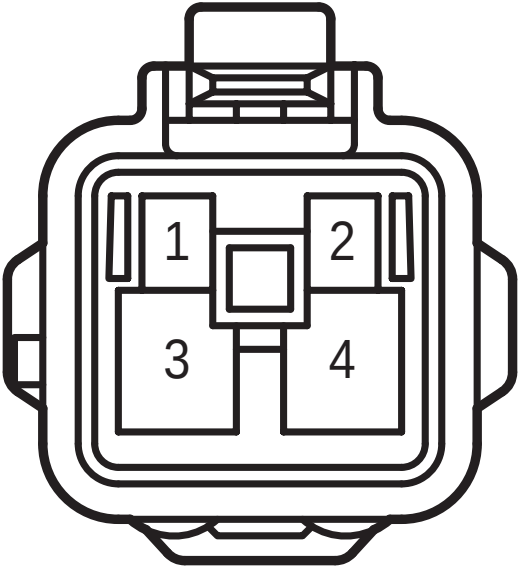
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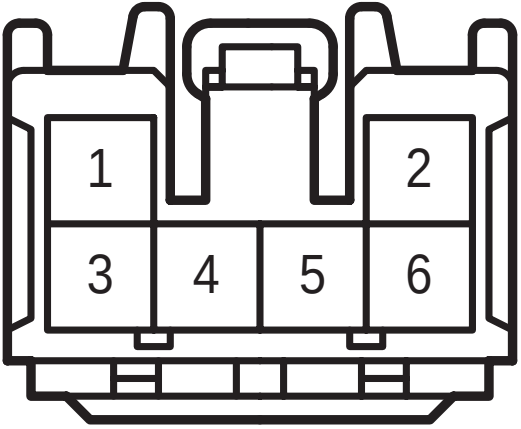
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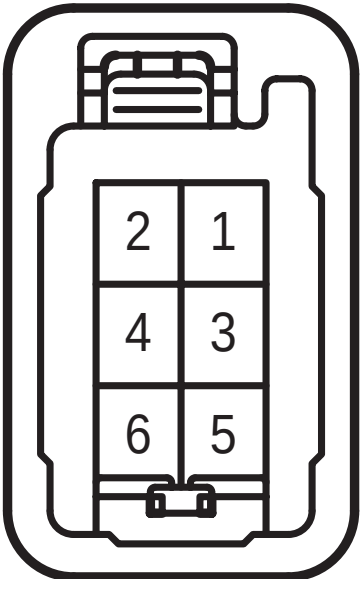
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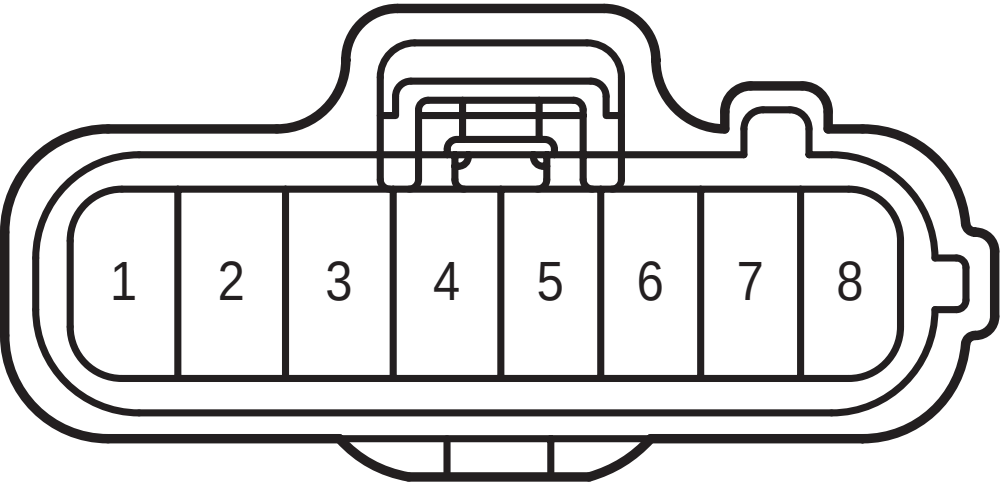
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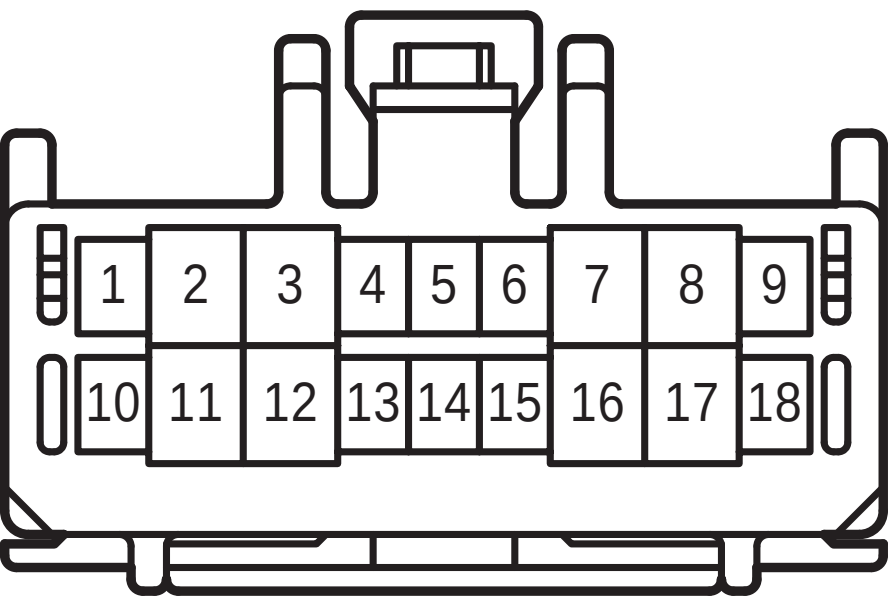
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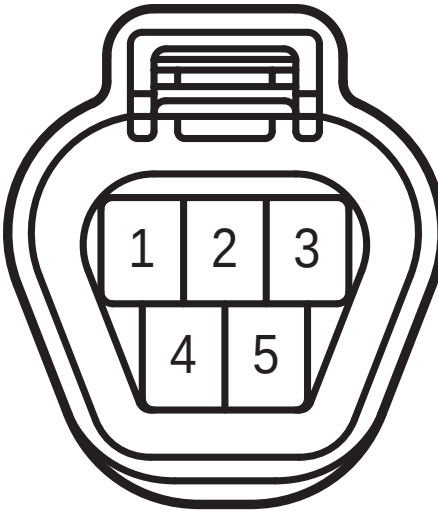
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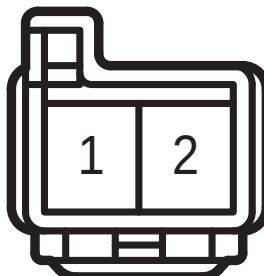
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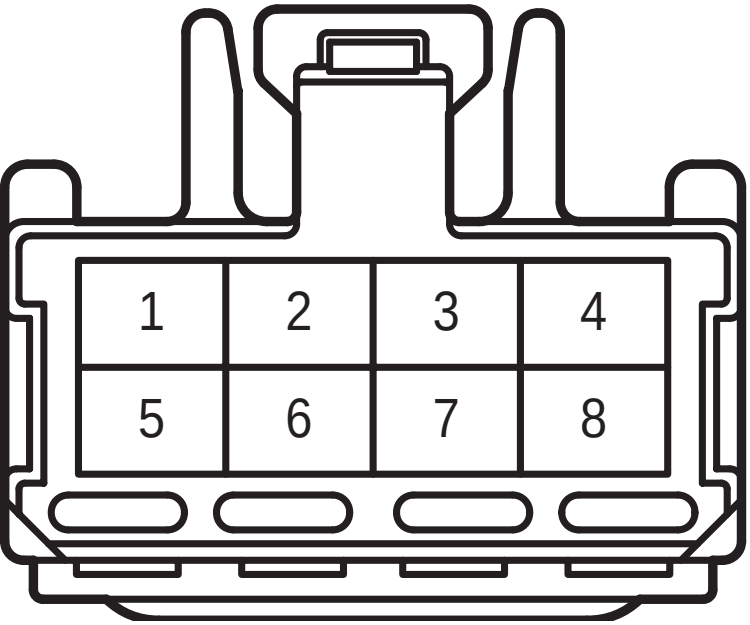
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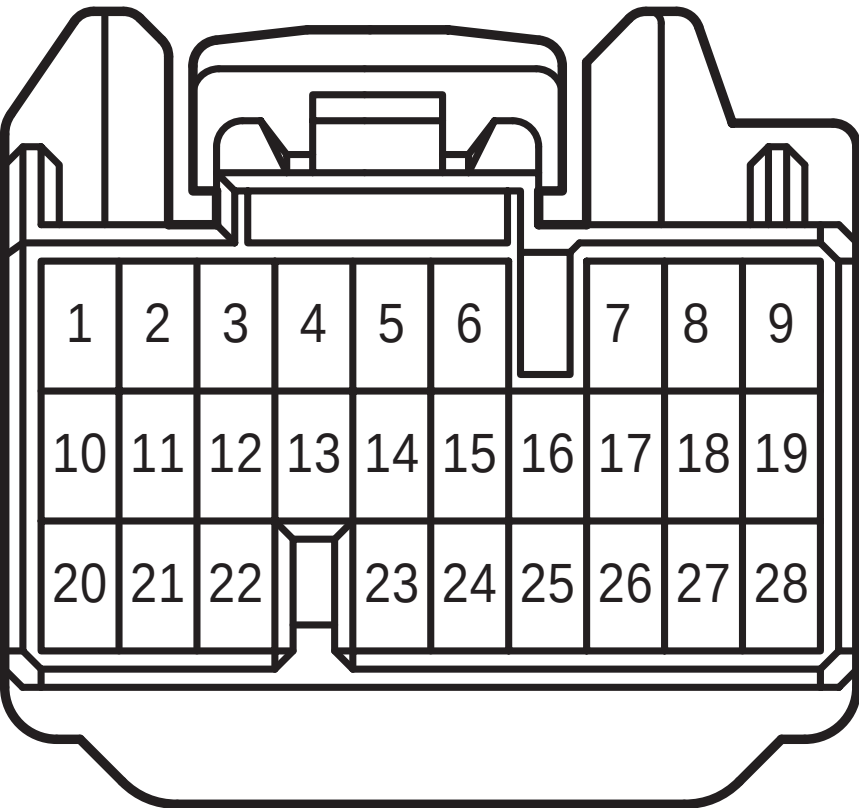
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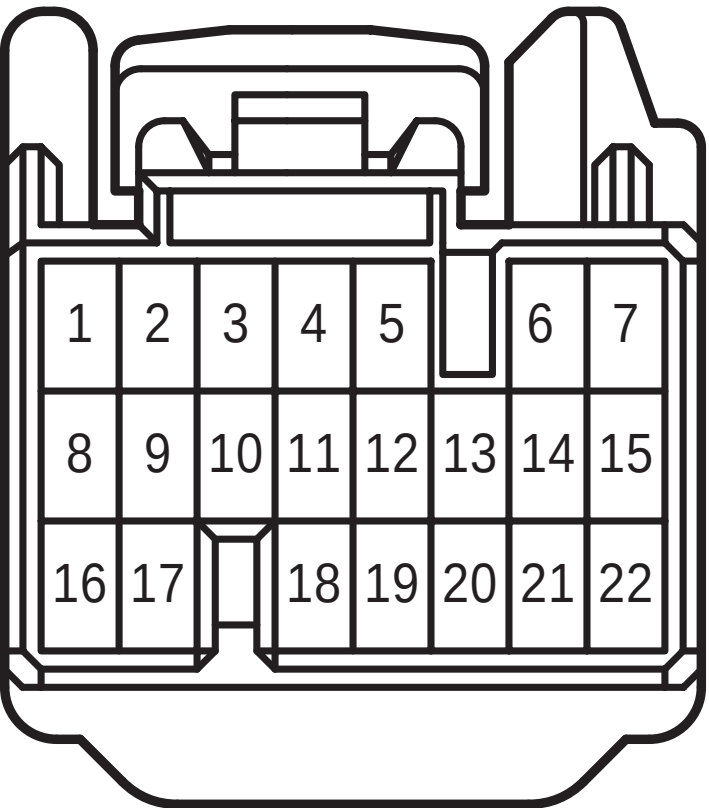
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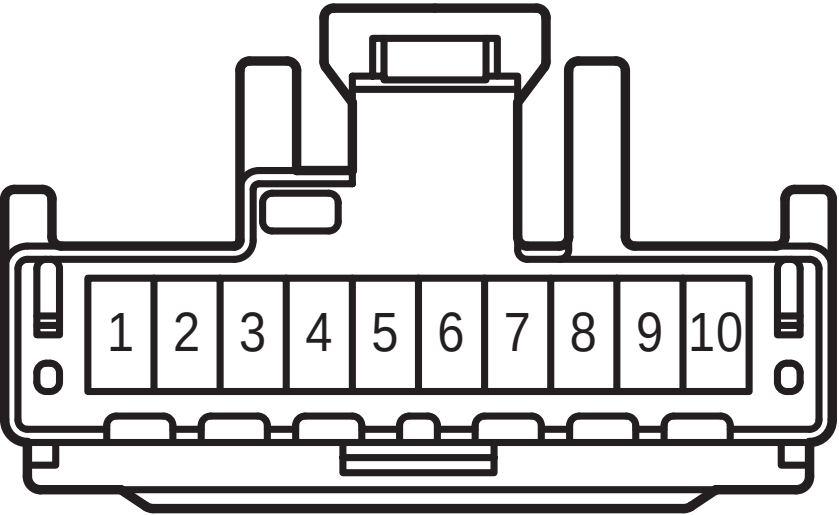
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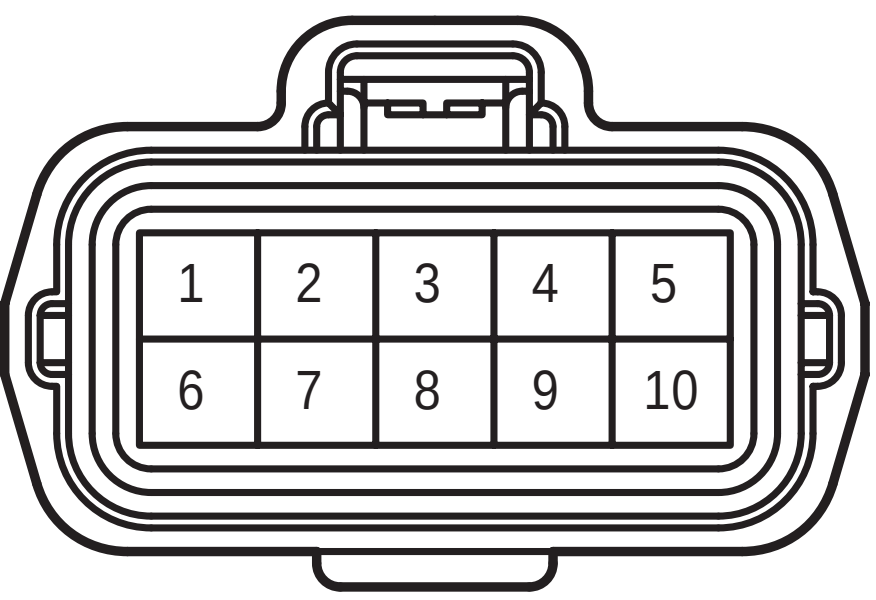
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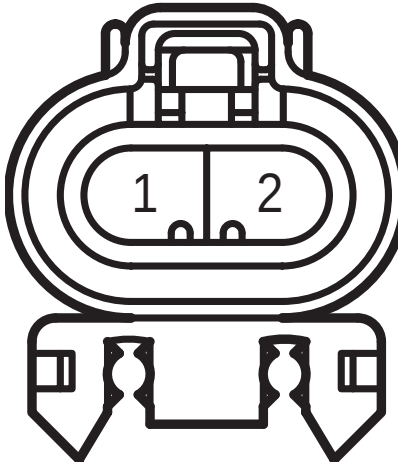
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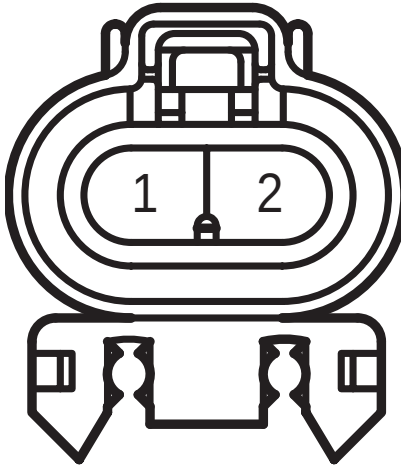
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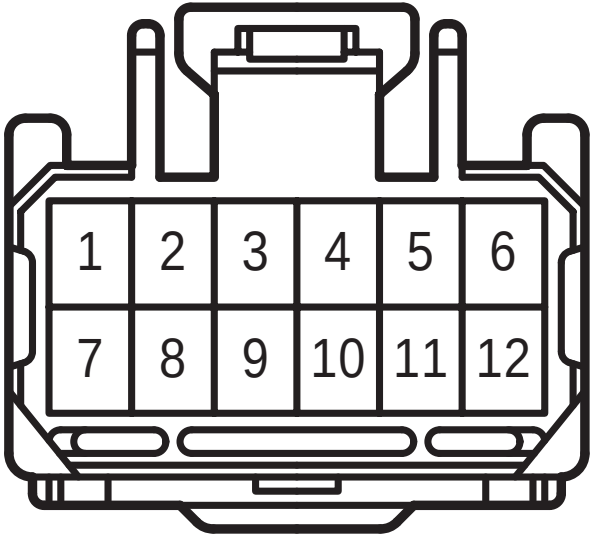
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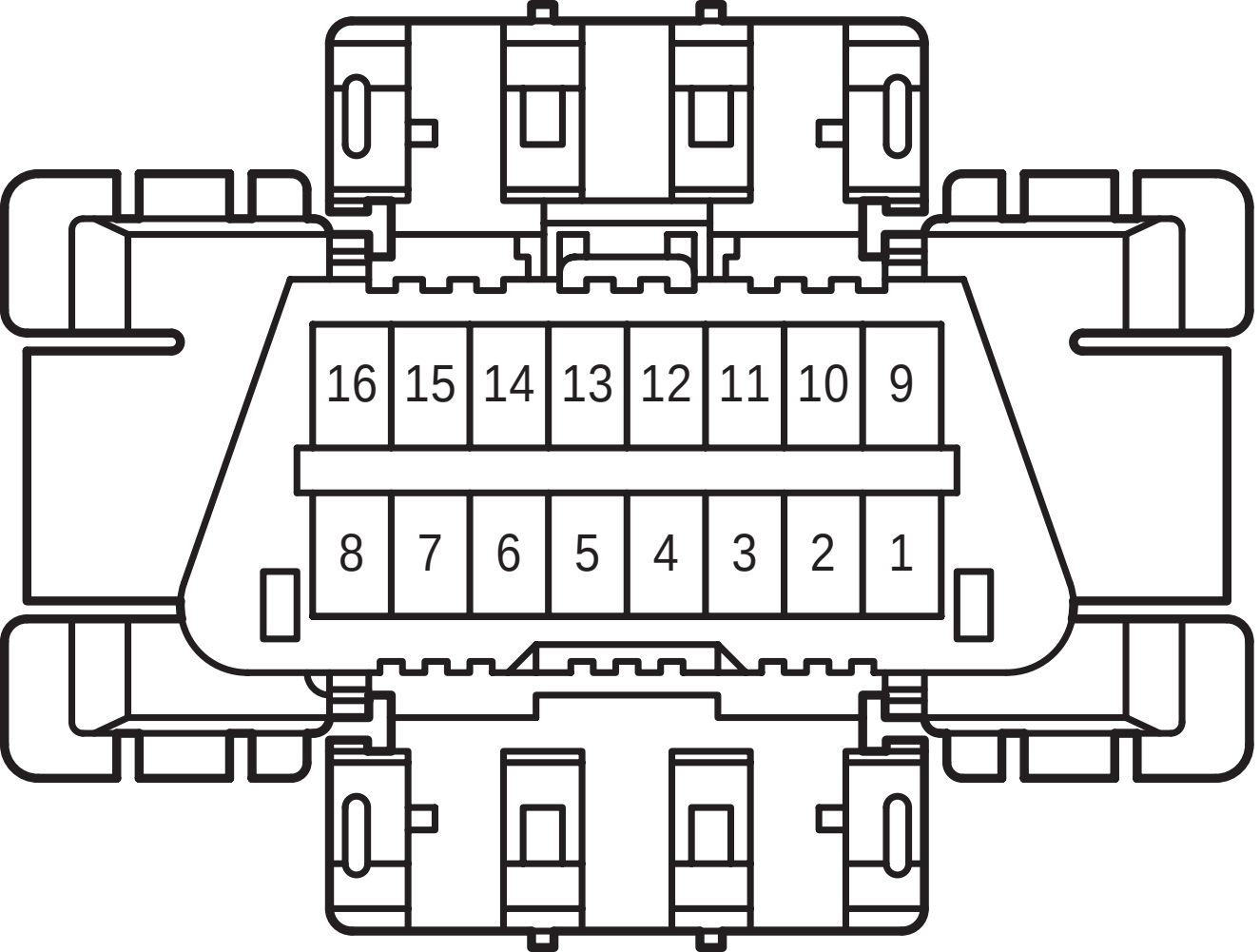
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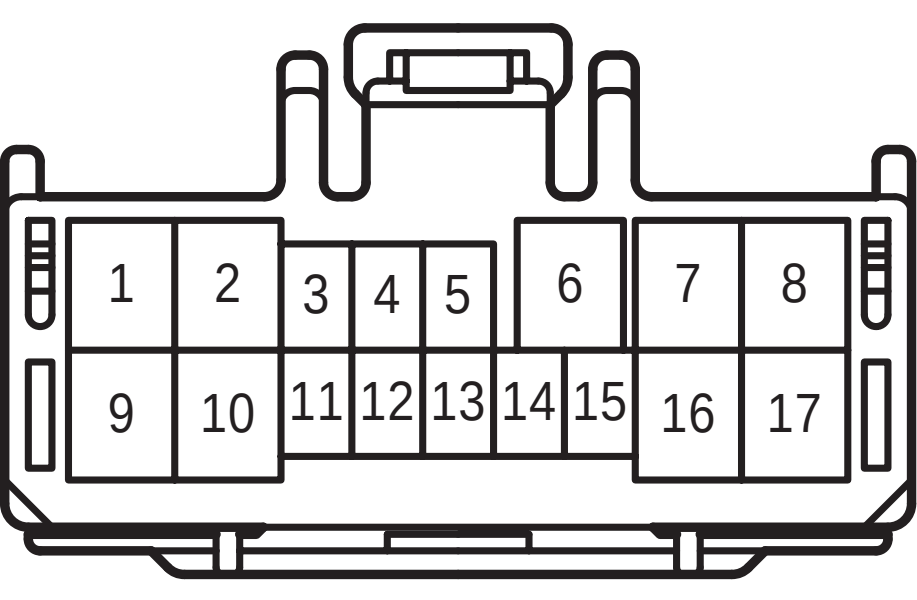
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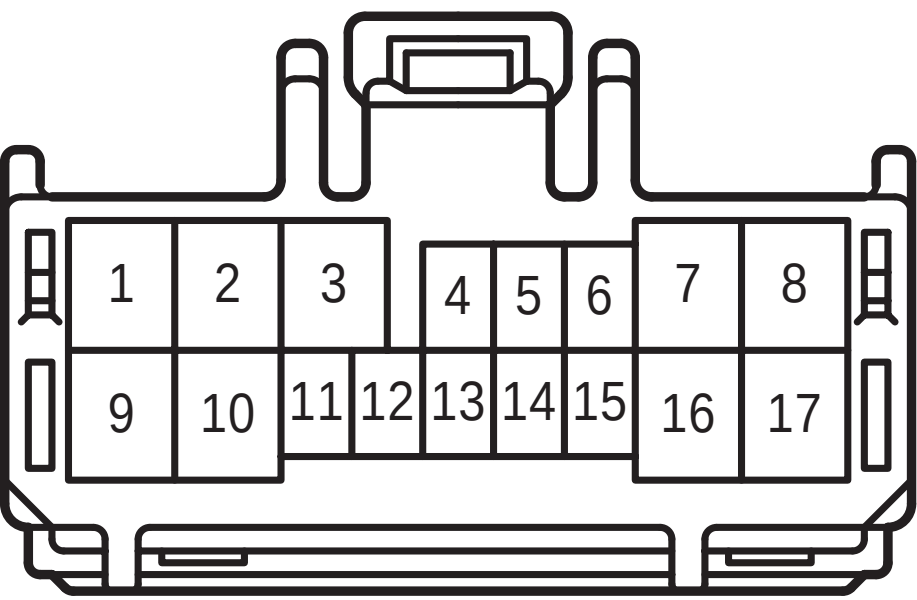
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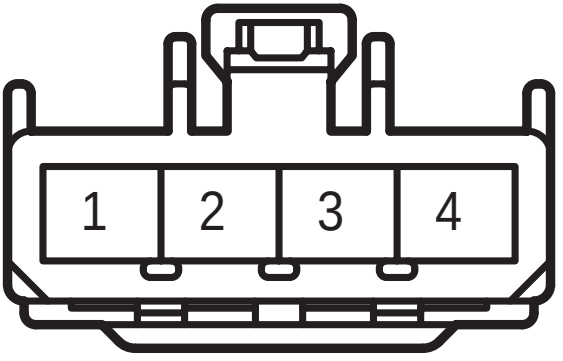
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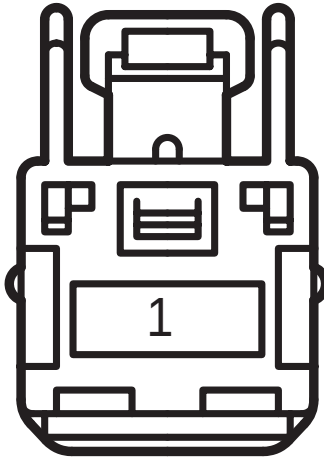
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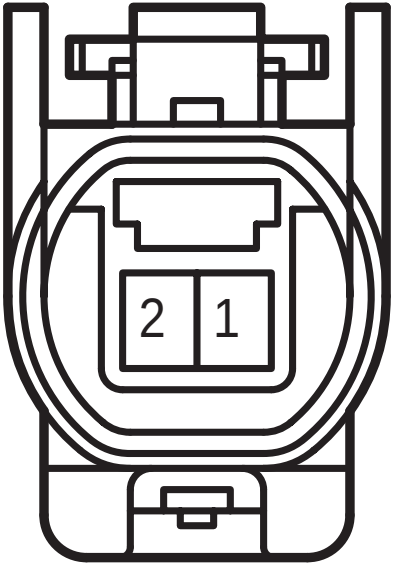
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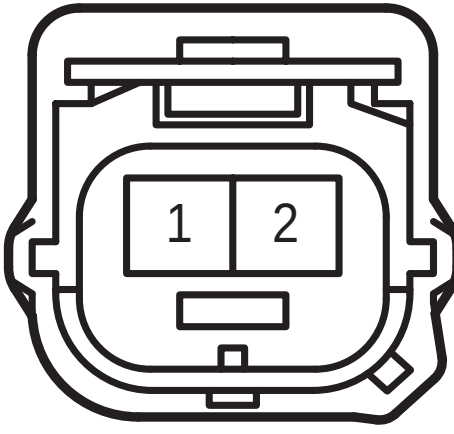
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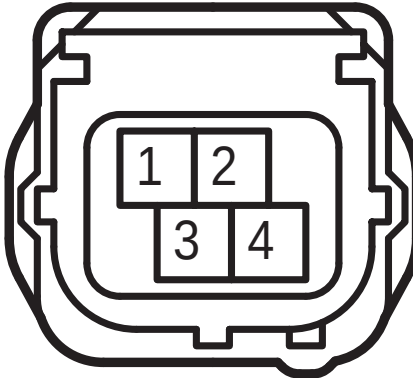
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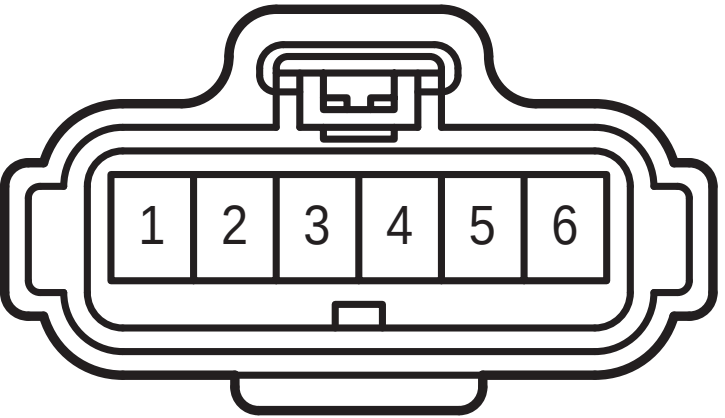
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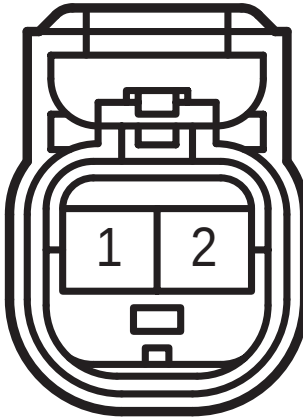
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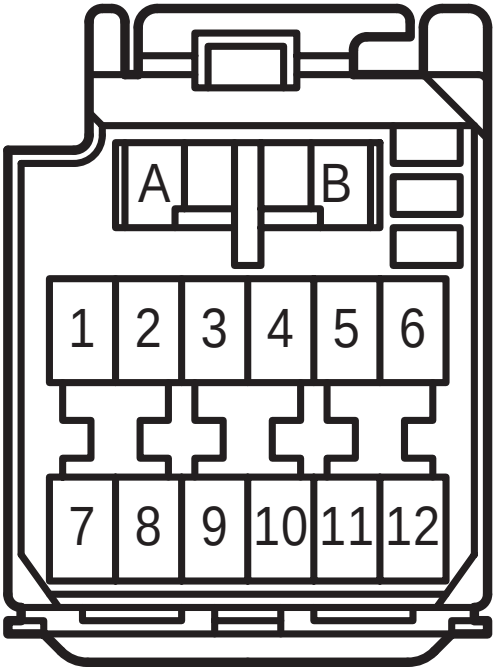
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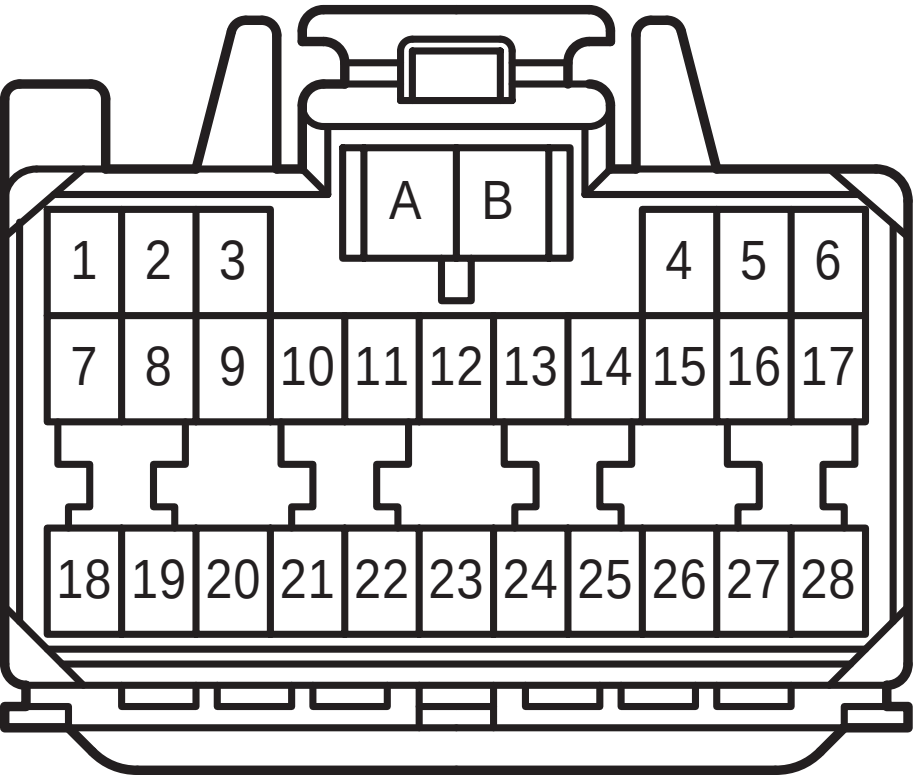
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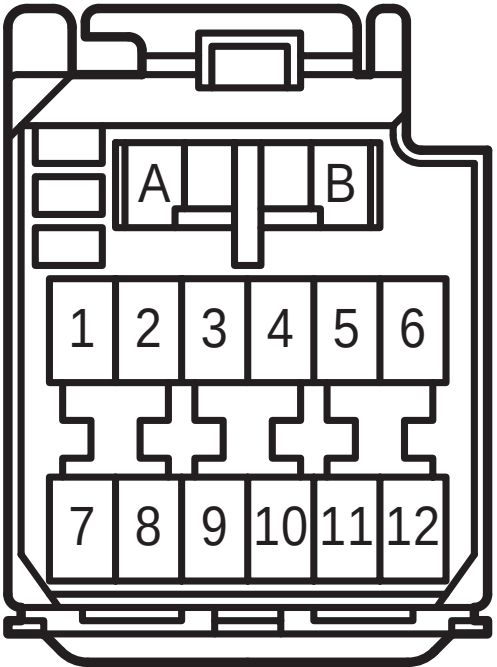
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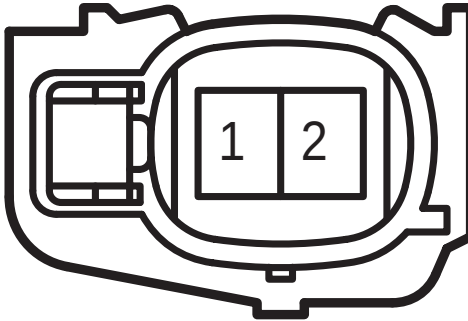
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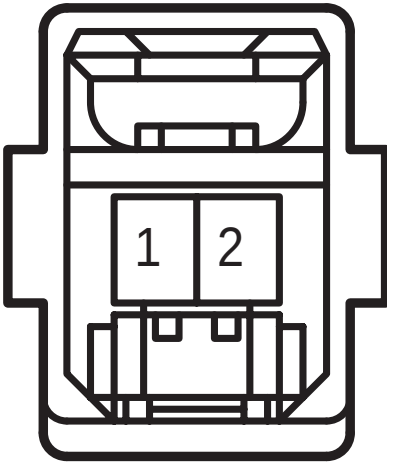
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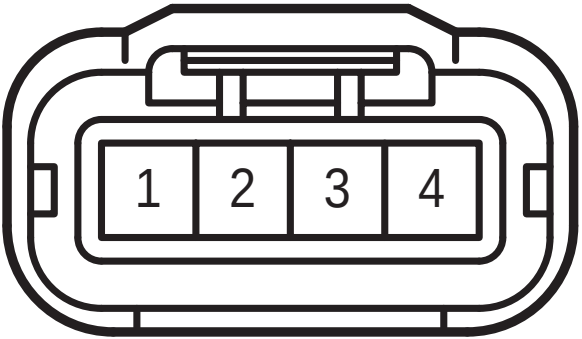
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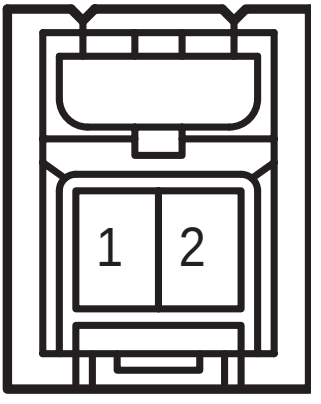
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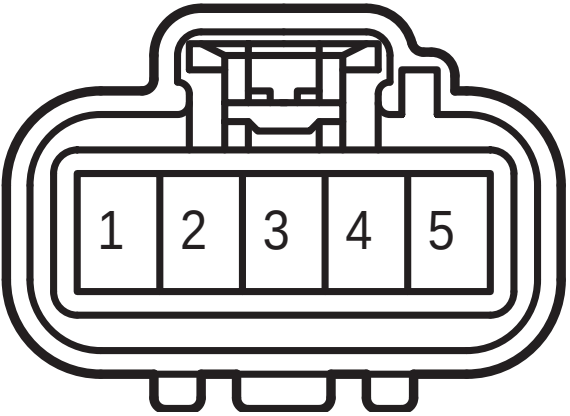
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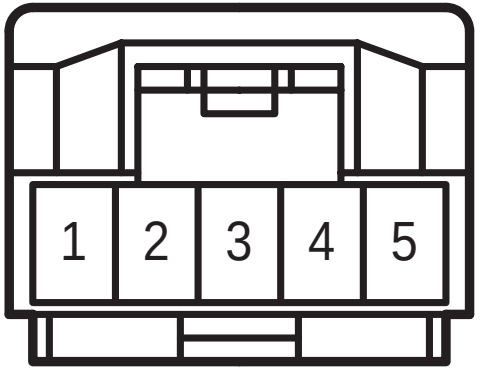
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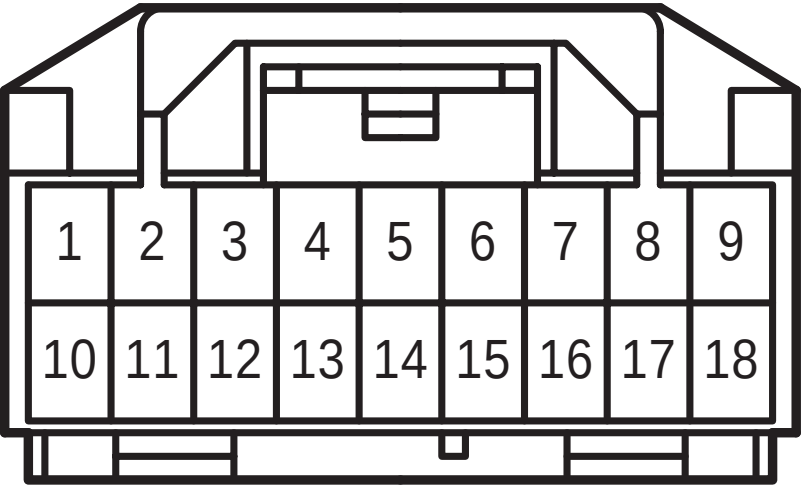
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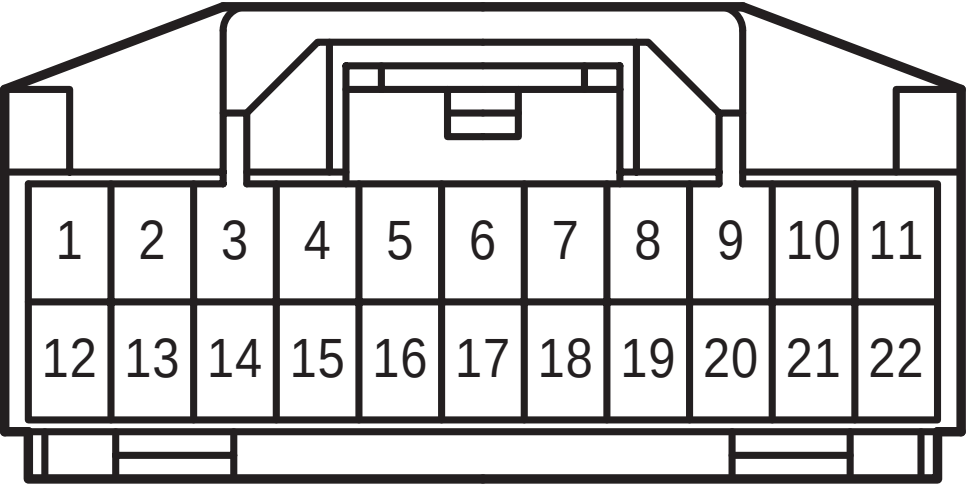
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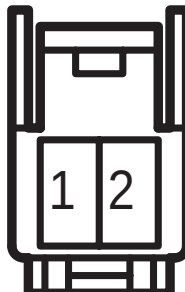
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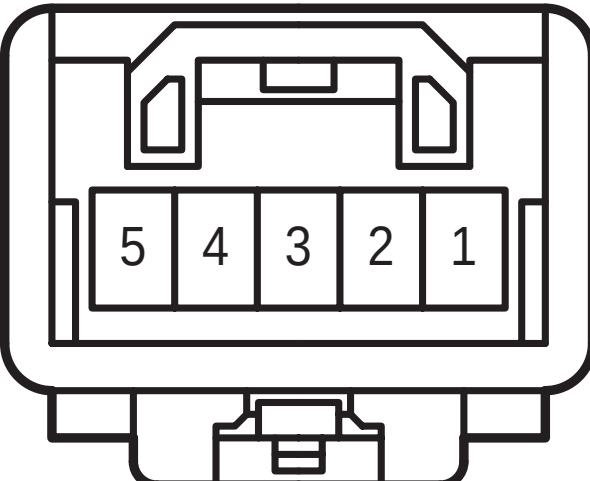
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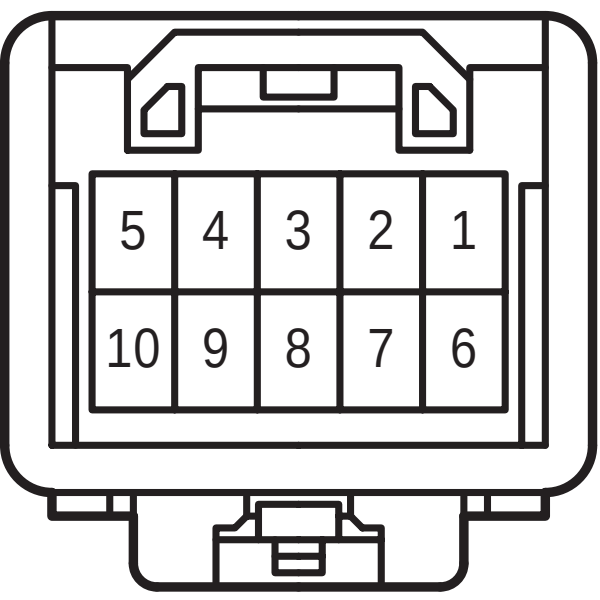
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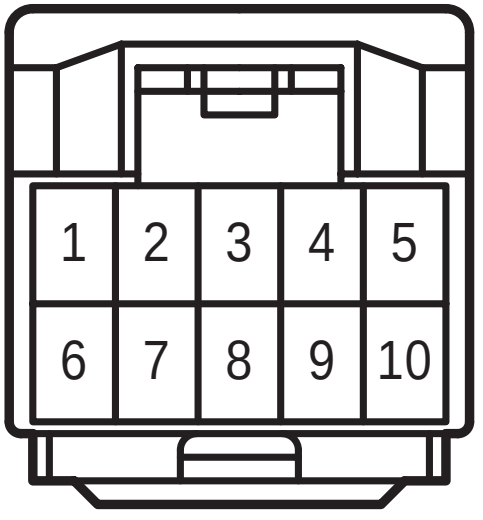
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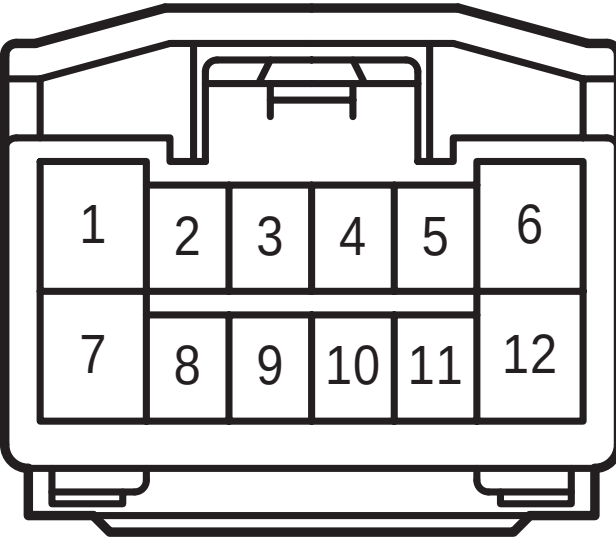
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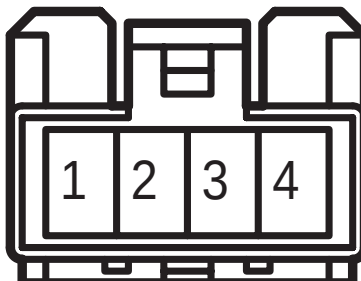
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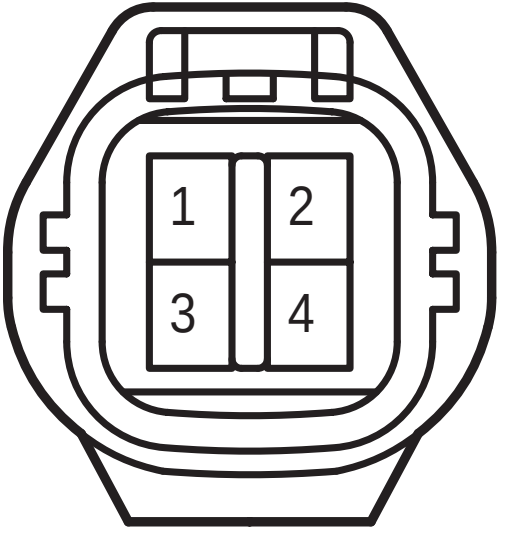
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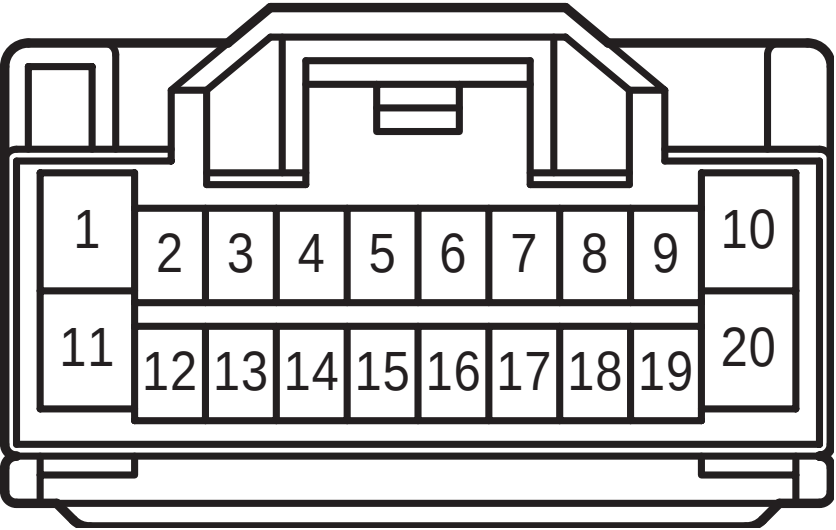
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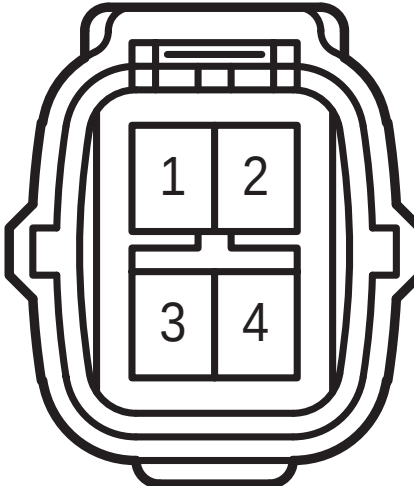
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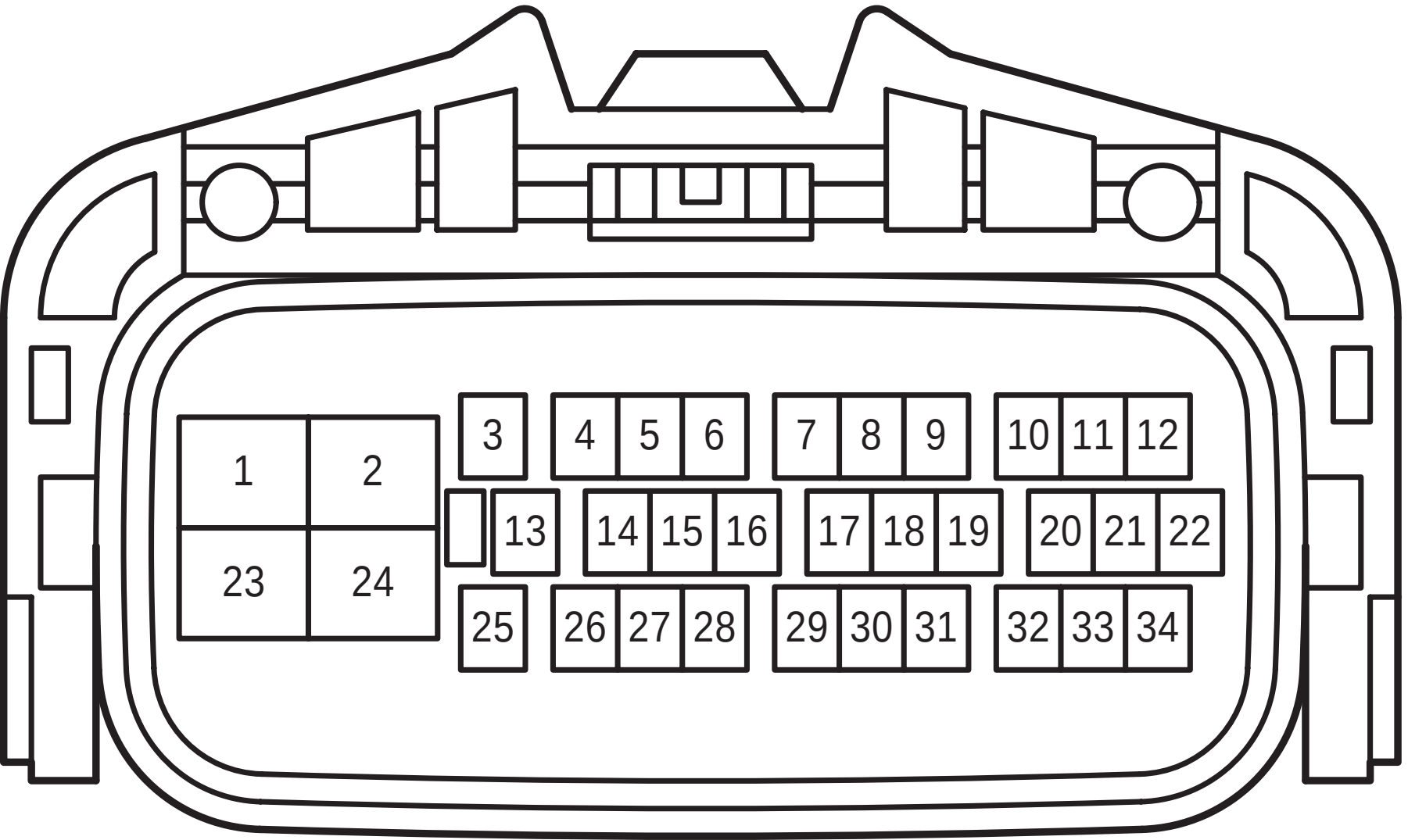
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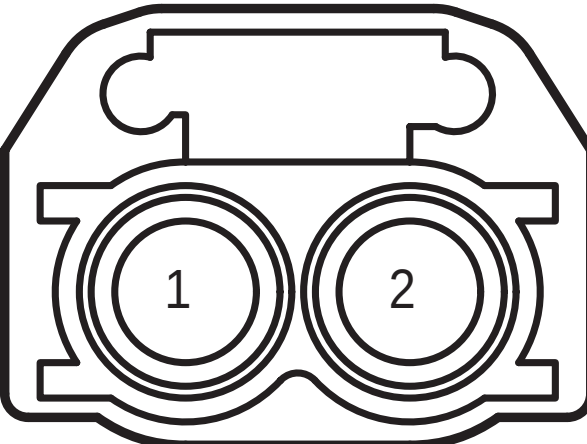
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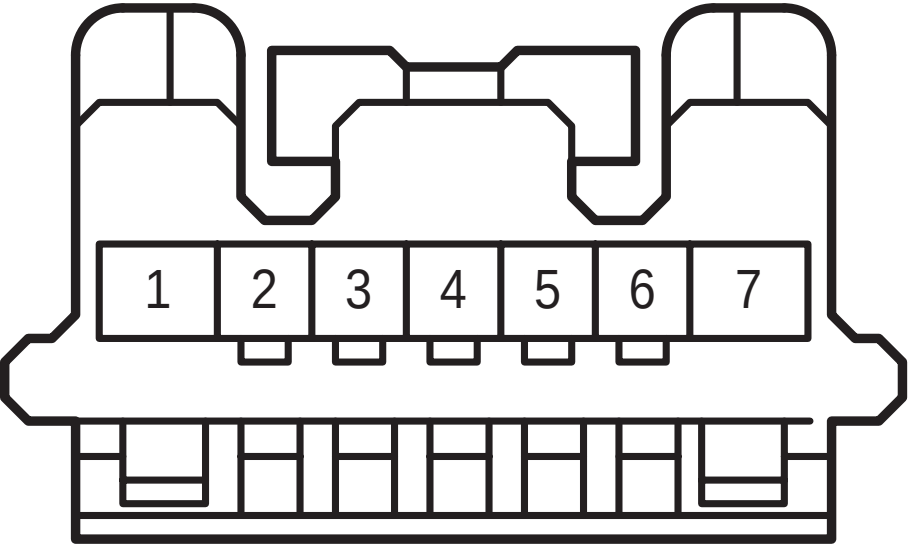
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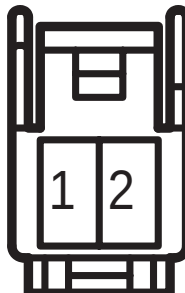
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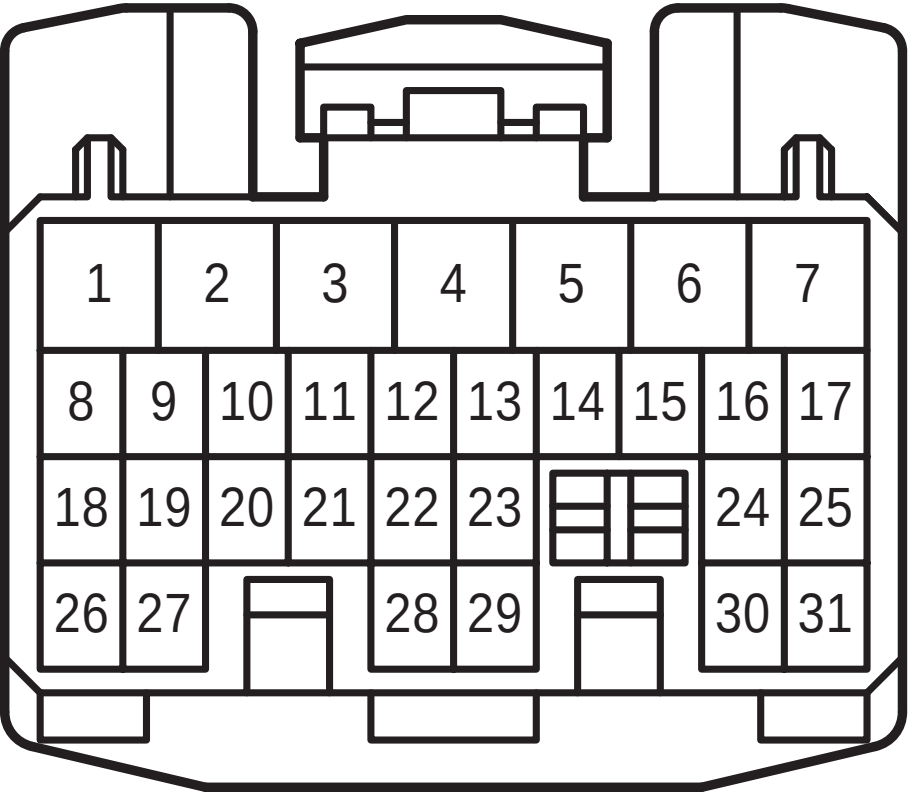
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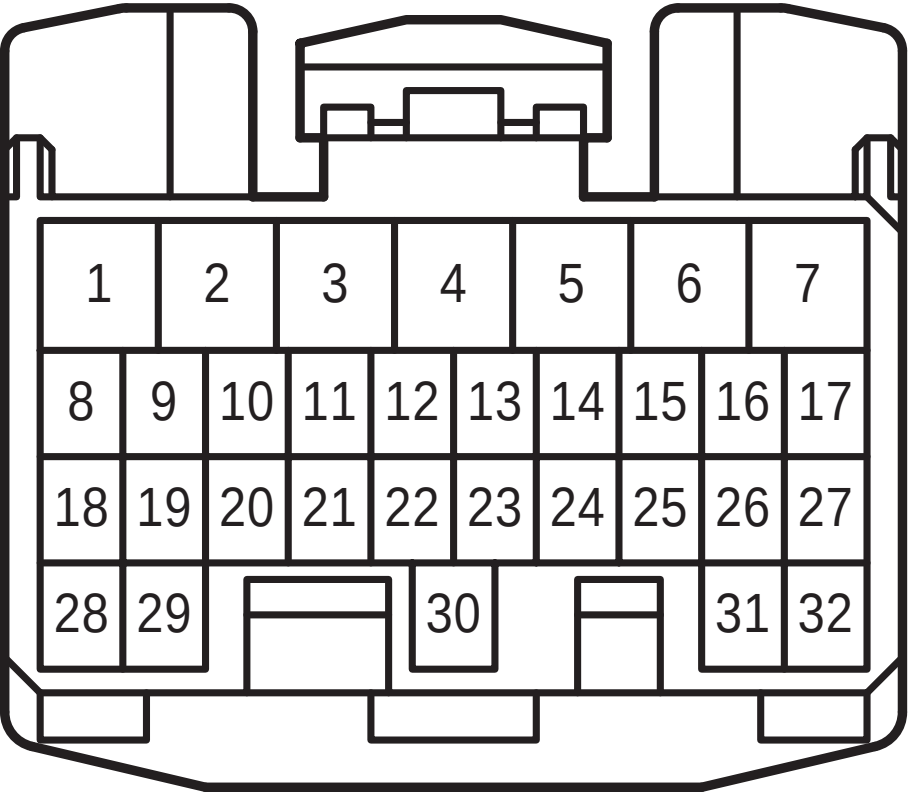
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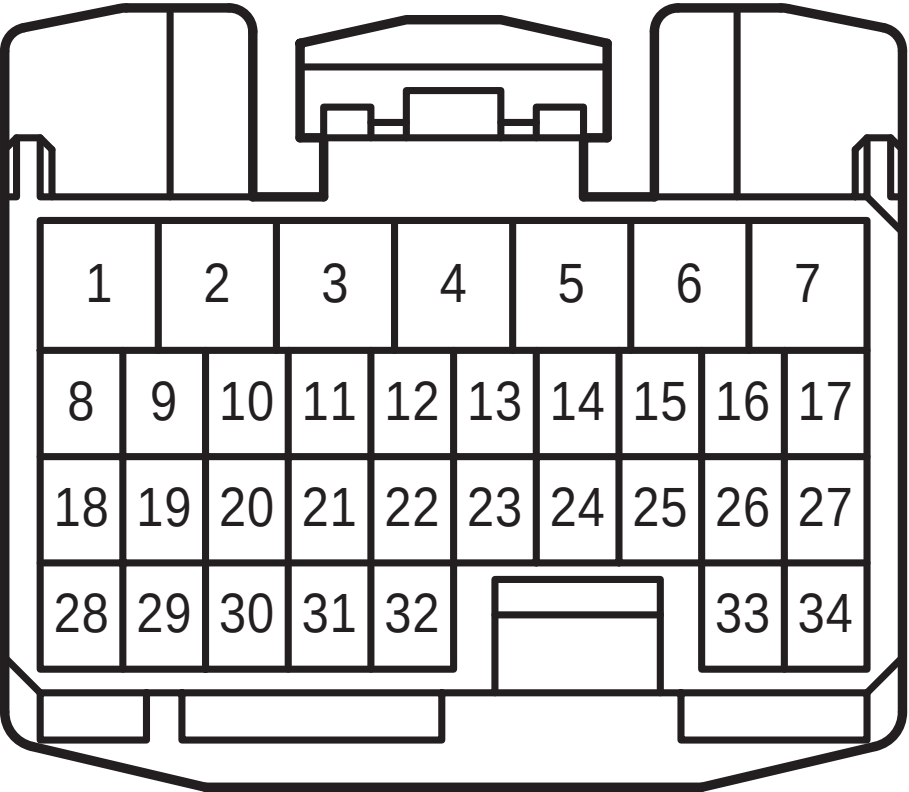
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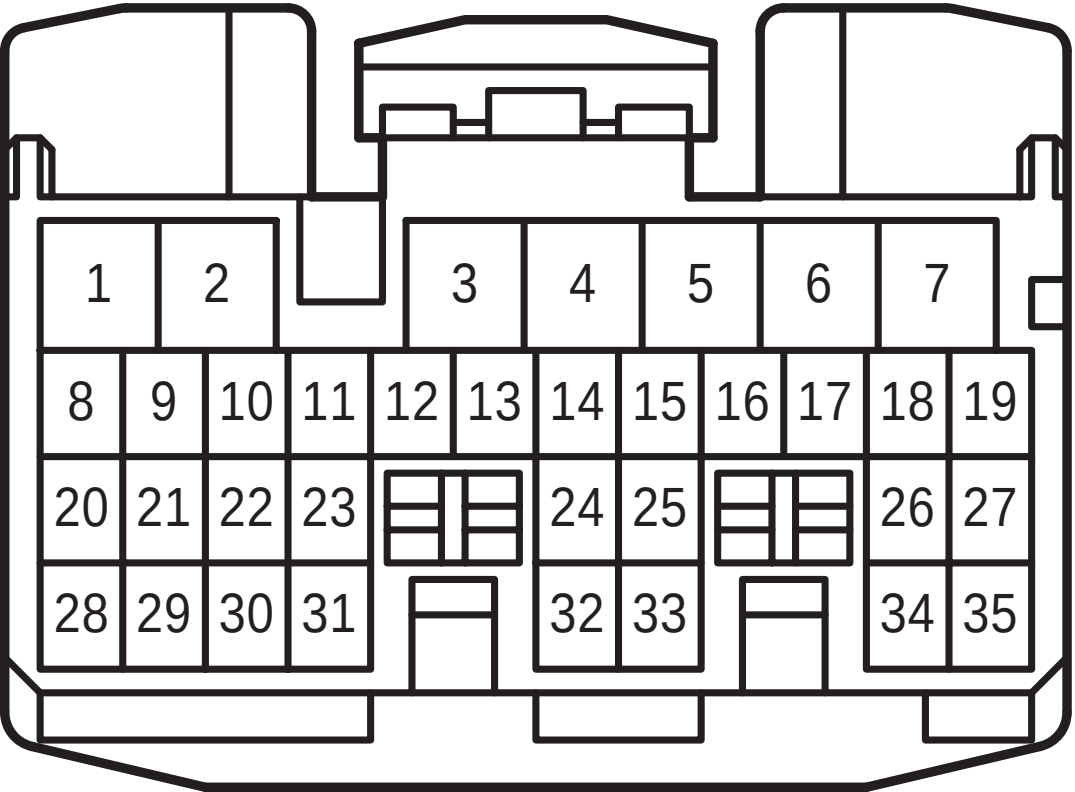
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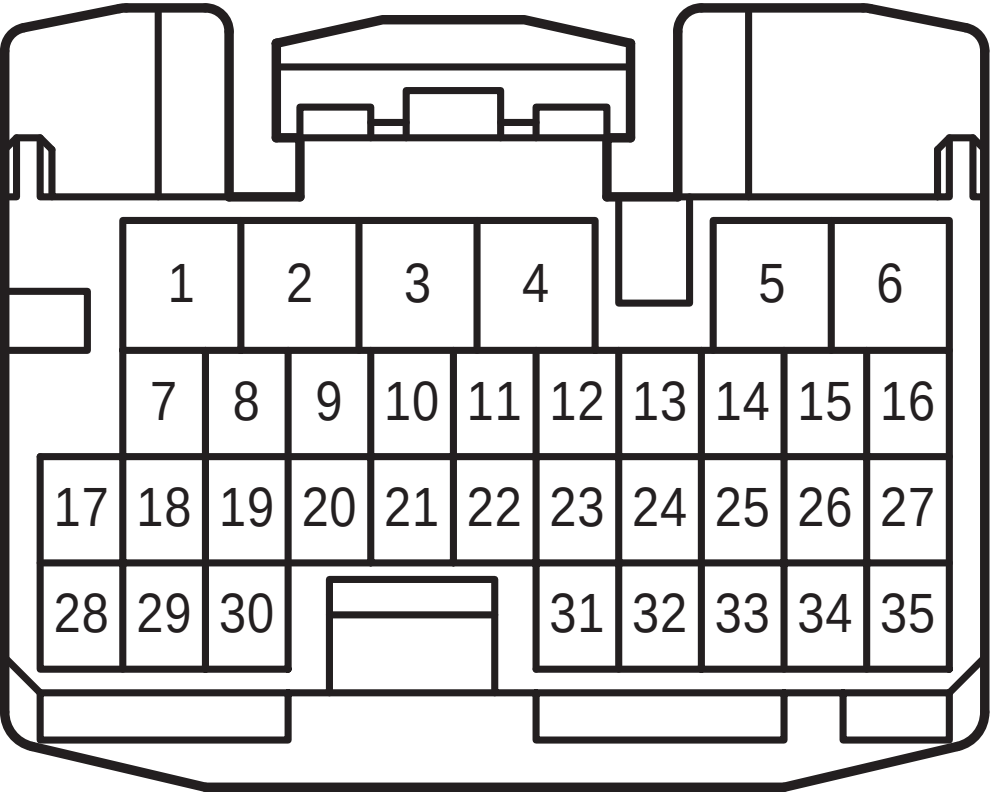
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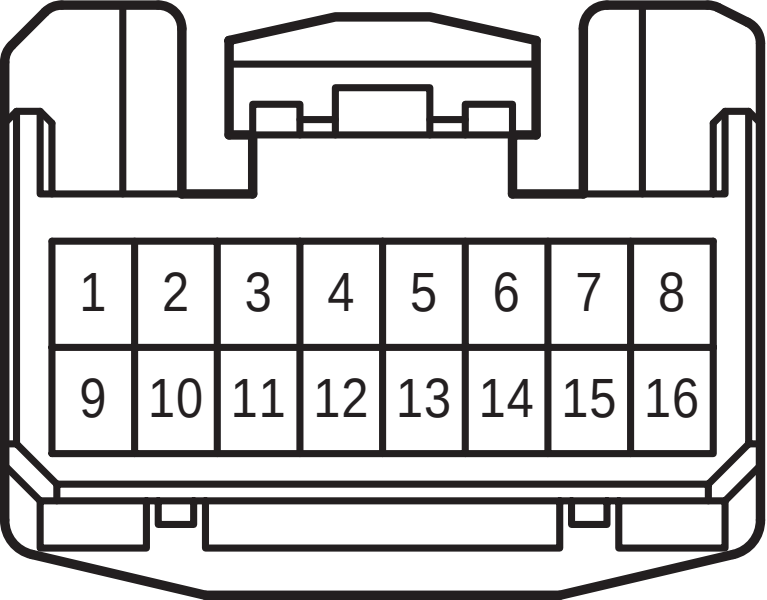
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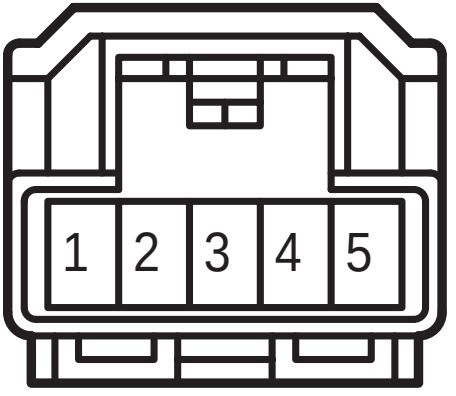
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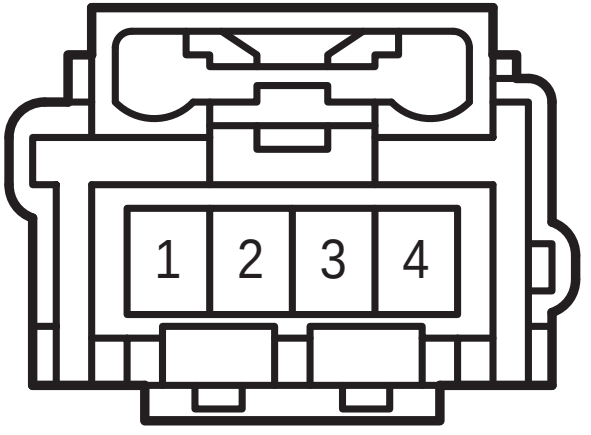
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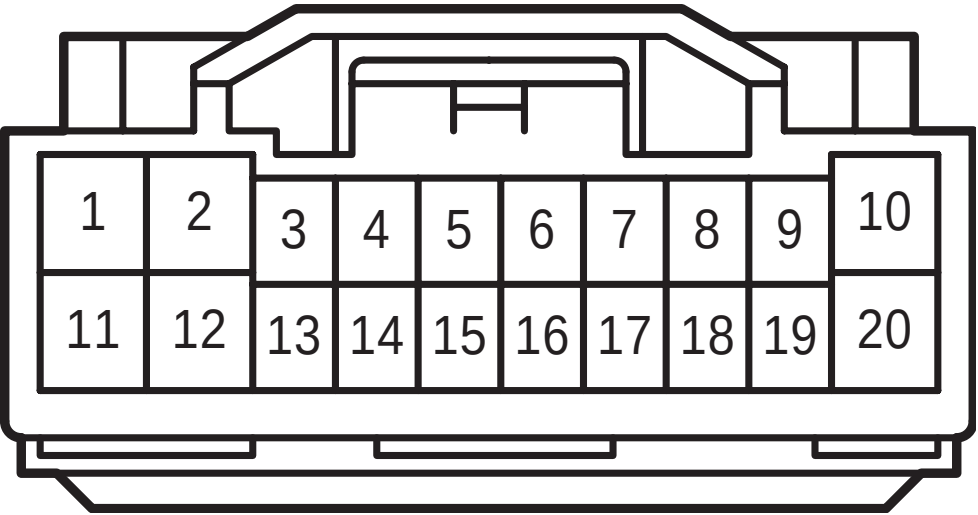
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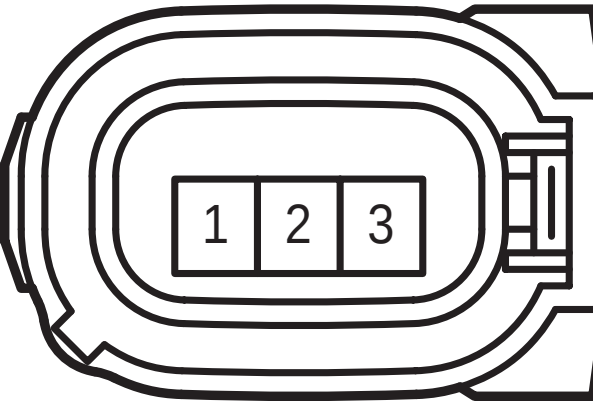
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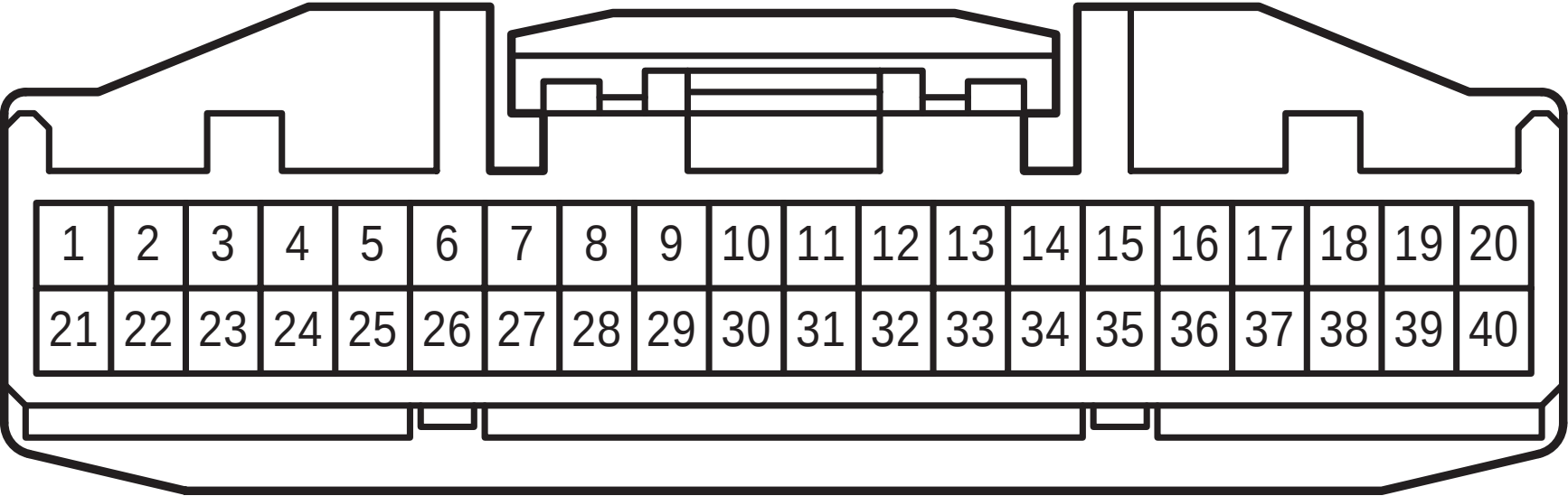
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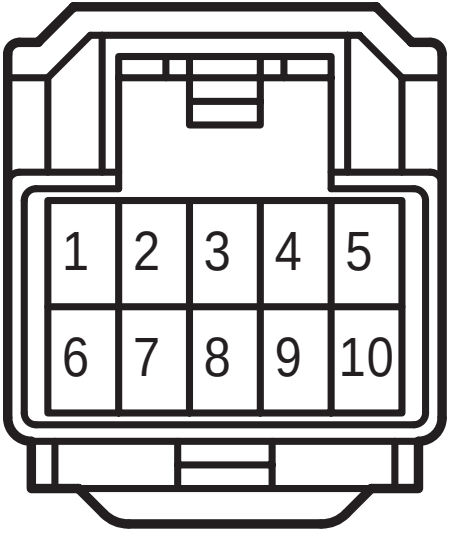
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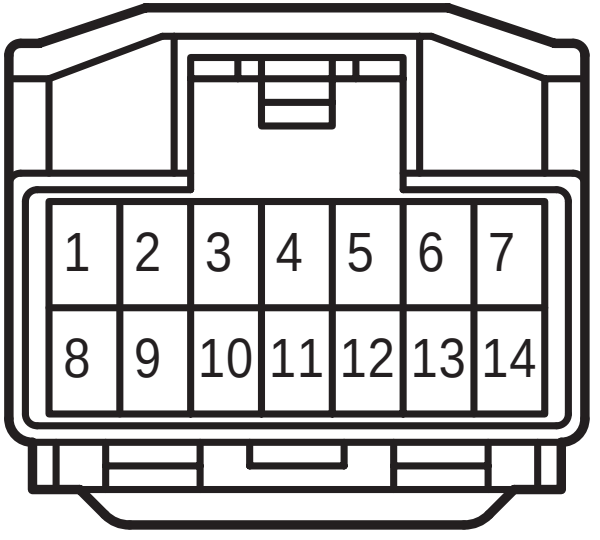
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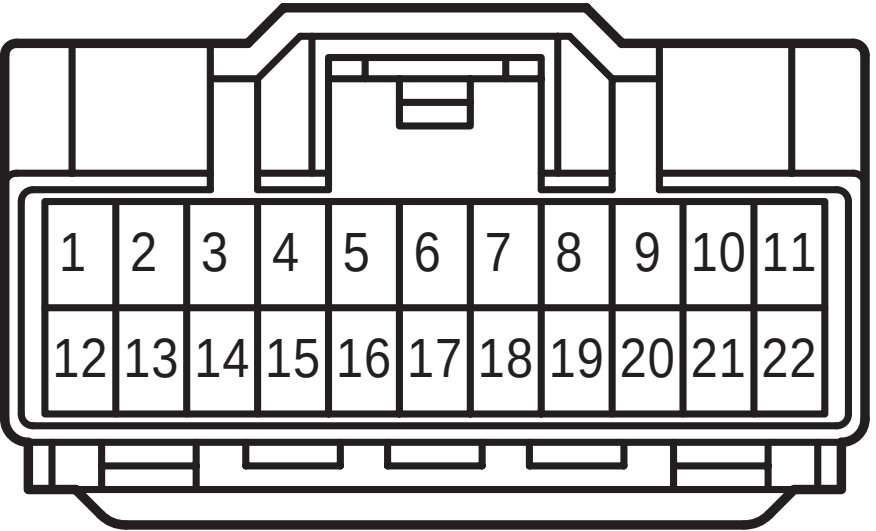
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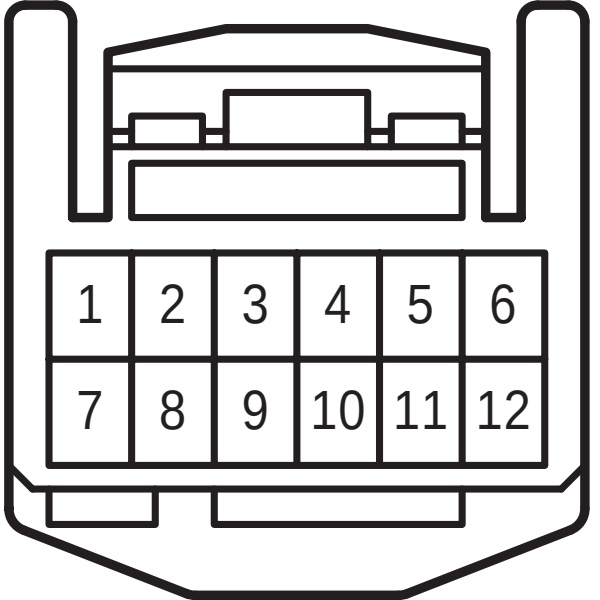
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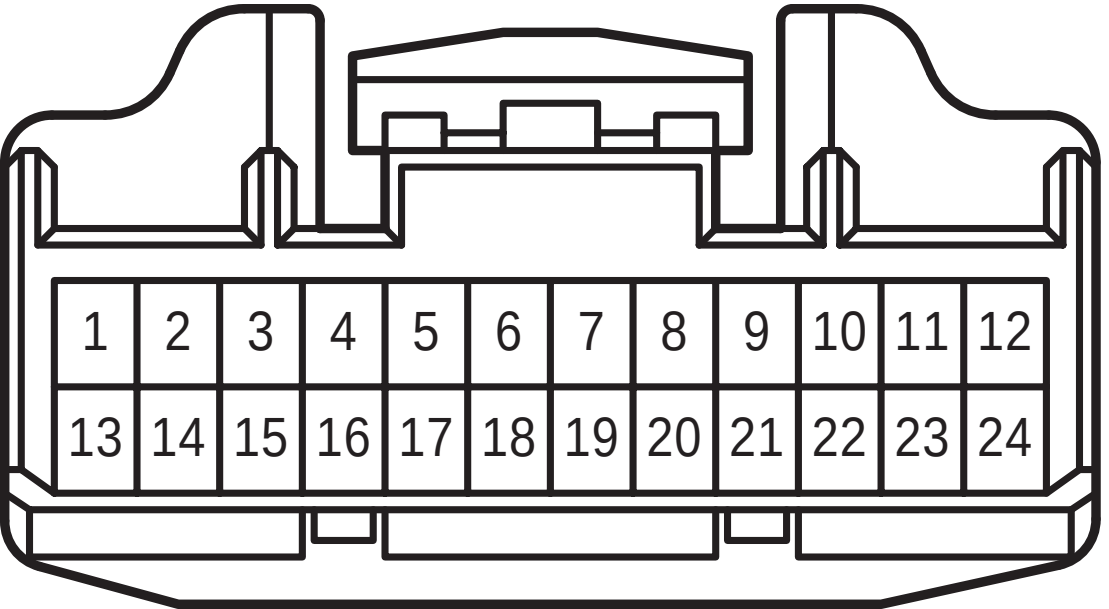
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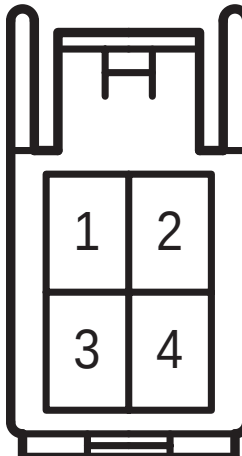
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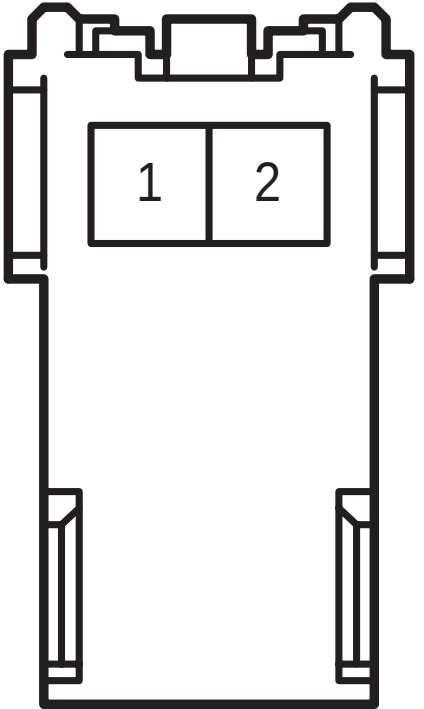
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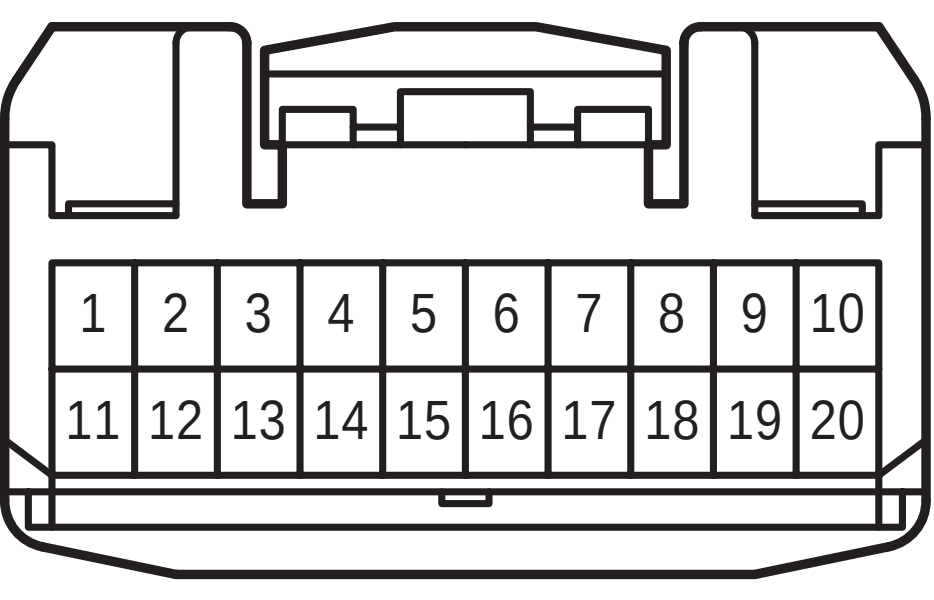
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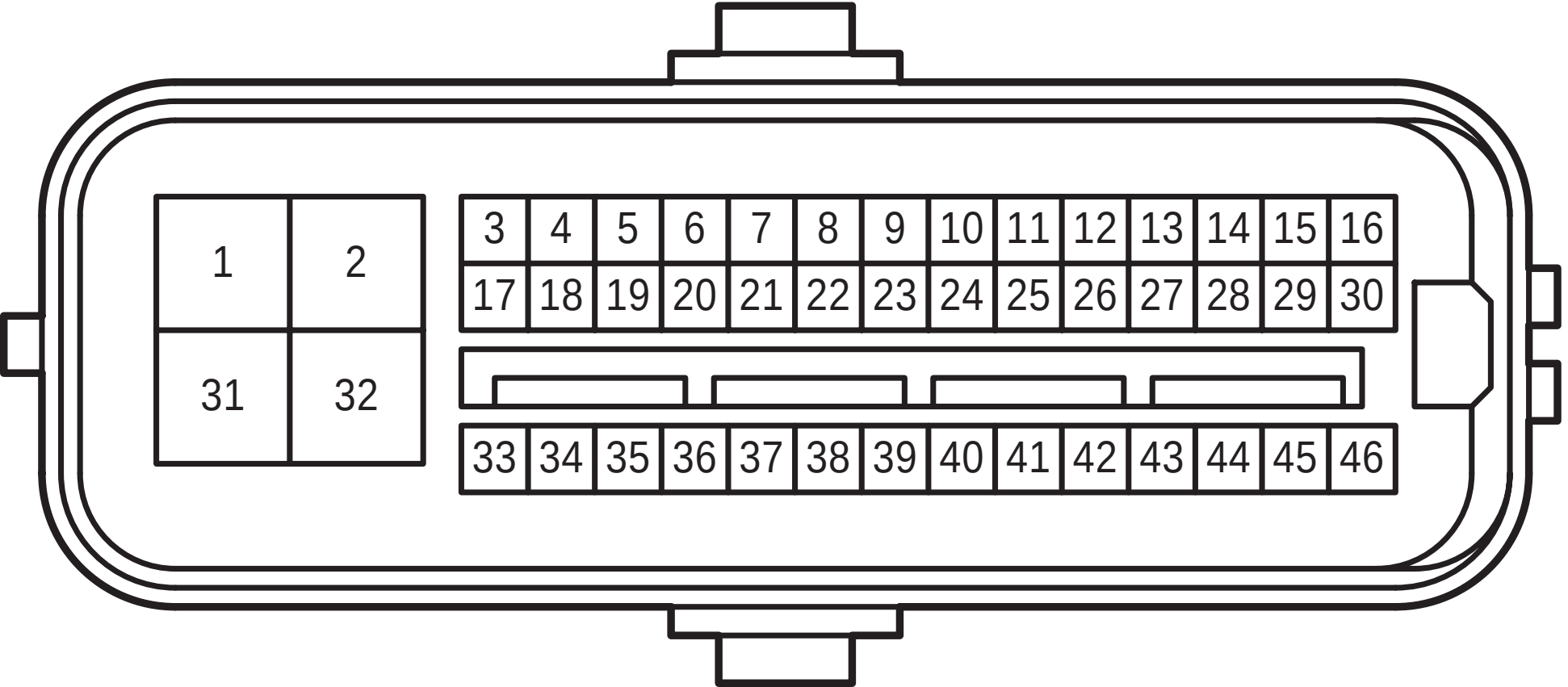
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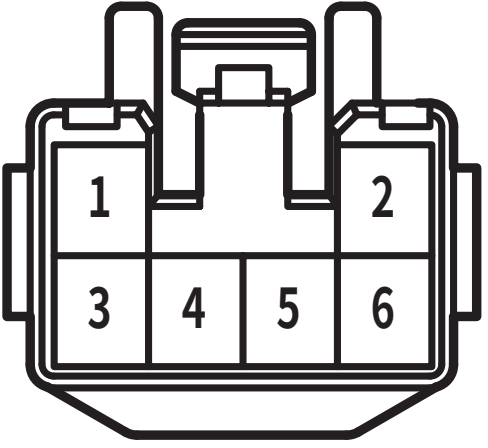
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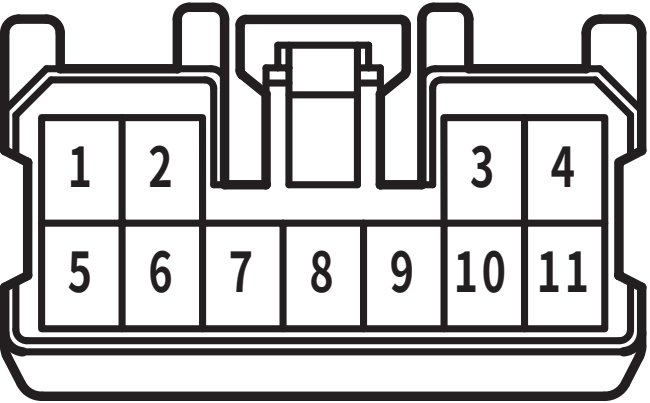
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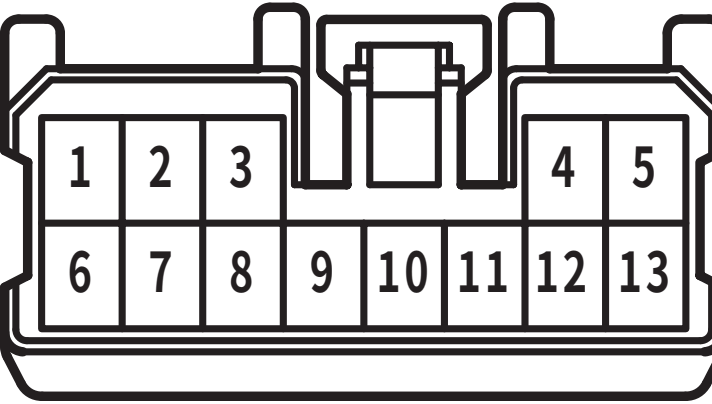
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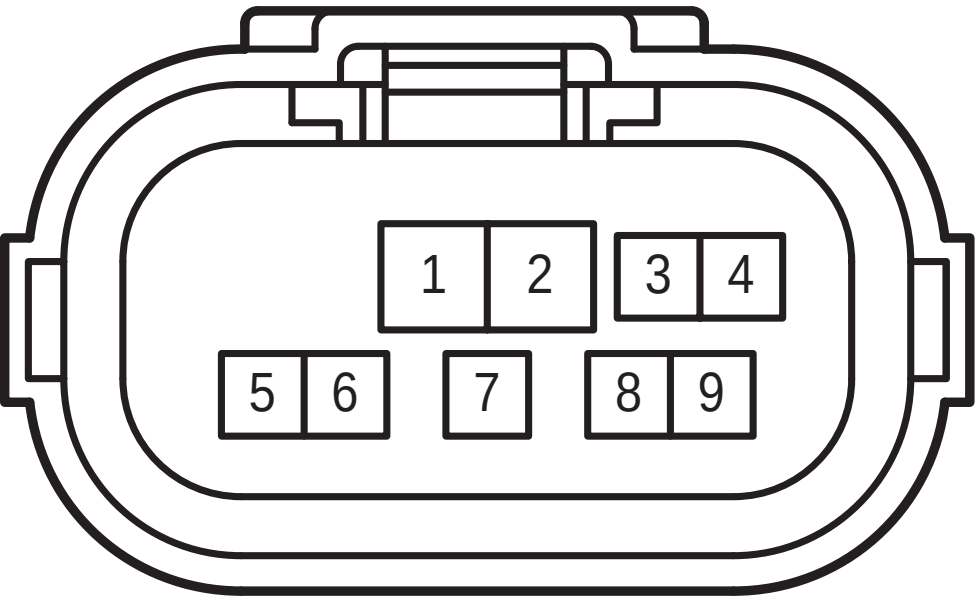
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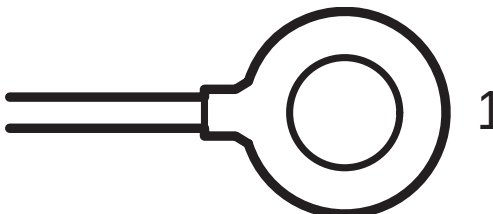
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ABBREVIATIONS

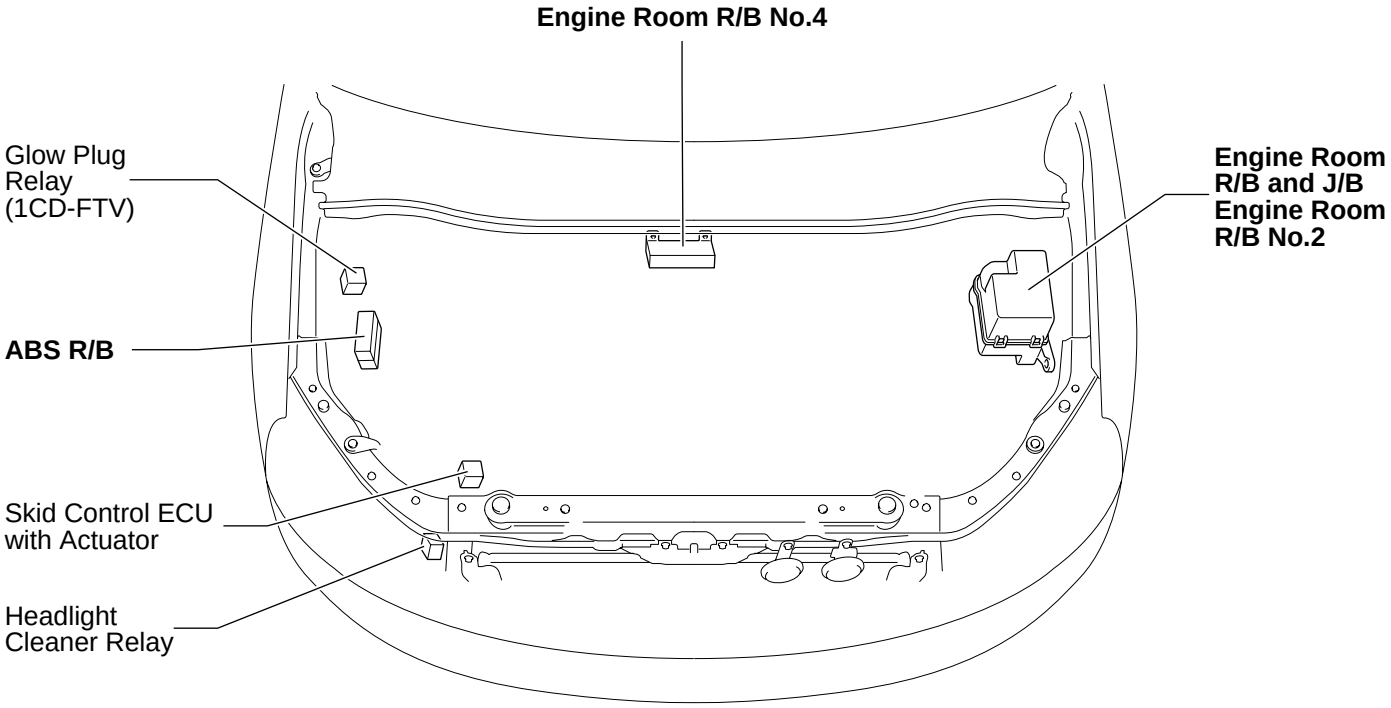
The following abbreviations are used in this manual.

A/C	=	Air Conditioner
A/T	=	Automatic Transaxle
ABS	=	Anti–Lock Brake System
CAN	=	Controller Area Network
DLC3	=	Data Link Connector 3
ECT	=	Electronic Control Transmission
ECU	=	Electronic Control Unit
EGR	=	Exhaust Gas Recirculation
EVAP	=	Evaporative Emission
J/B	=	Junction Block
LH	=	Left–Hand
LHD	=	Left–Hand Drive
M/T	=	Manual Transaxle
O/D	=	Overdrive
PTC	=	Positive Temperature Coefficient
R/B	=	Relay Block
RH	=	Right–Hand
RHD	=	Right–Hand Drive
SRS	=	Supplemental Restraint System
SW	=	Switch
TEMP.	=	Temperature
TRC	=	Traction Control
TVSS	=	TOYOTA Vehicle Security System
VRV	=	Vacuum Regulating Valve
VSC	=	Vehicle Stability Control
VSV	=	Vacuum Switching Valve
w/	=	With
w/o	=	Without

* The titles given inside the components are the names of the terminals (terminal codes) and are not treated as being abbreviations.

D RELAY LOCATIONS

[Engine Compartment]



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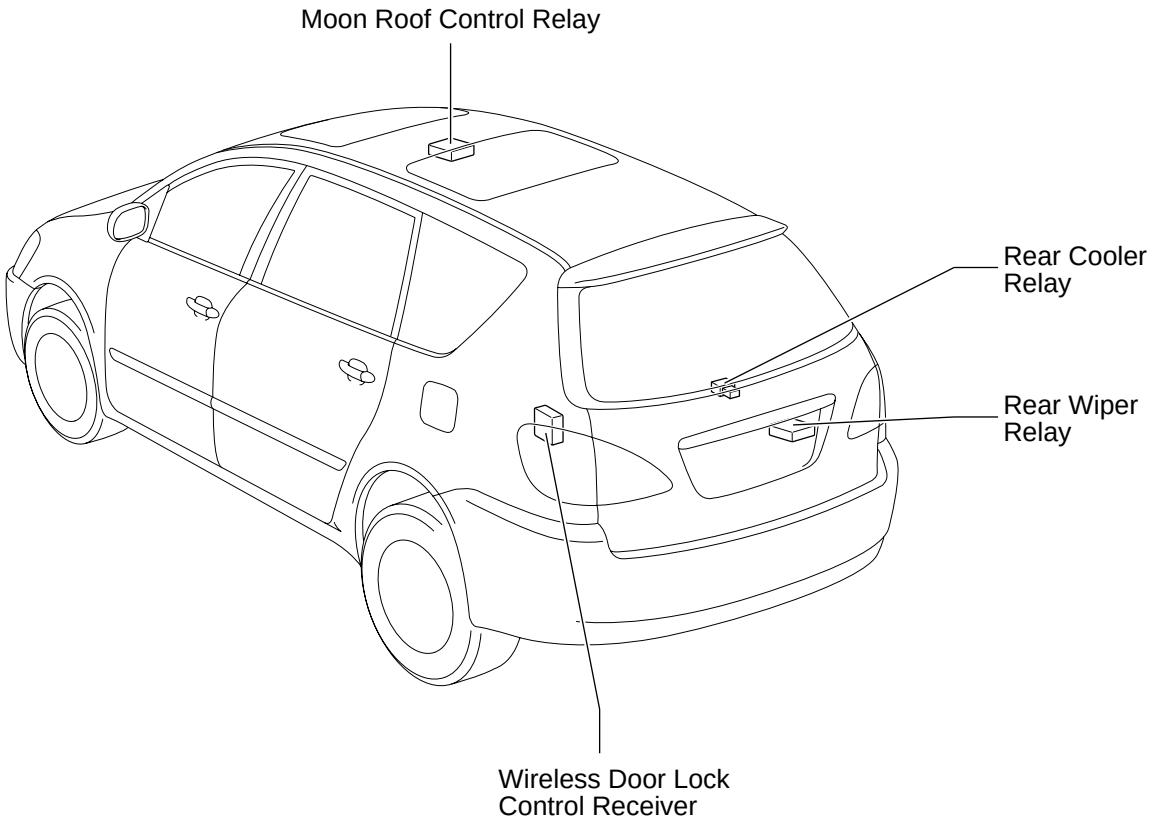

[Instrument Panel]
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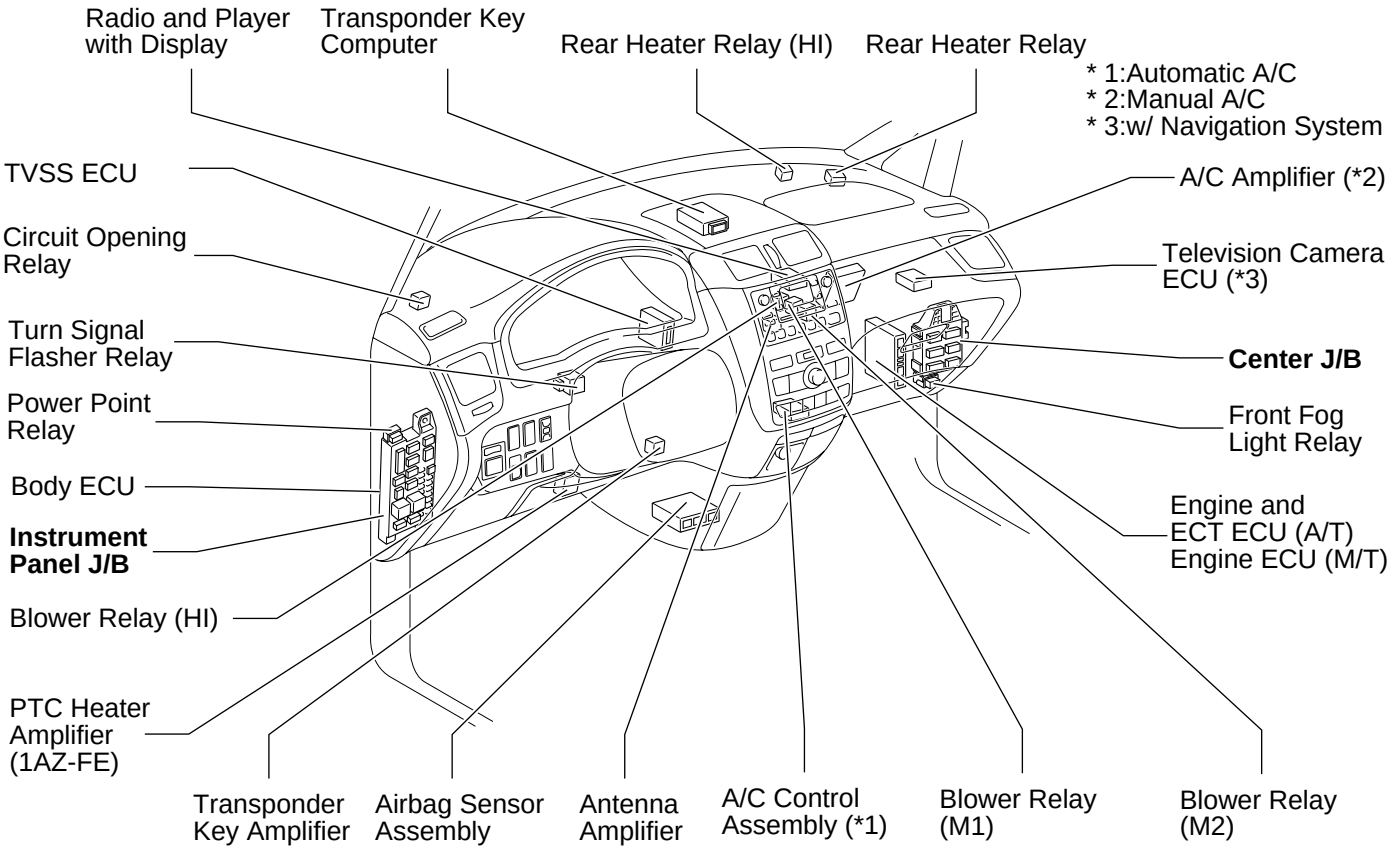

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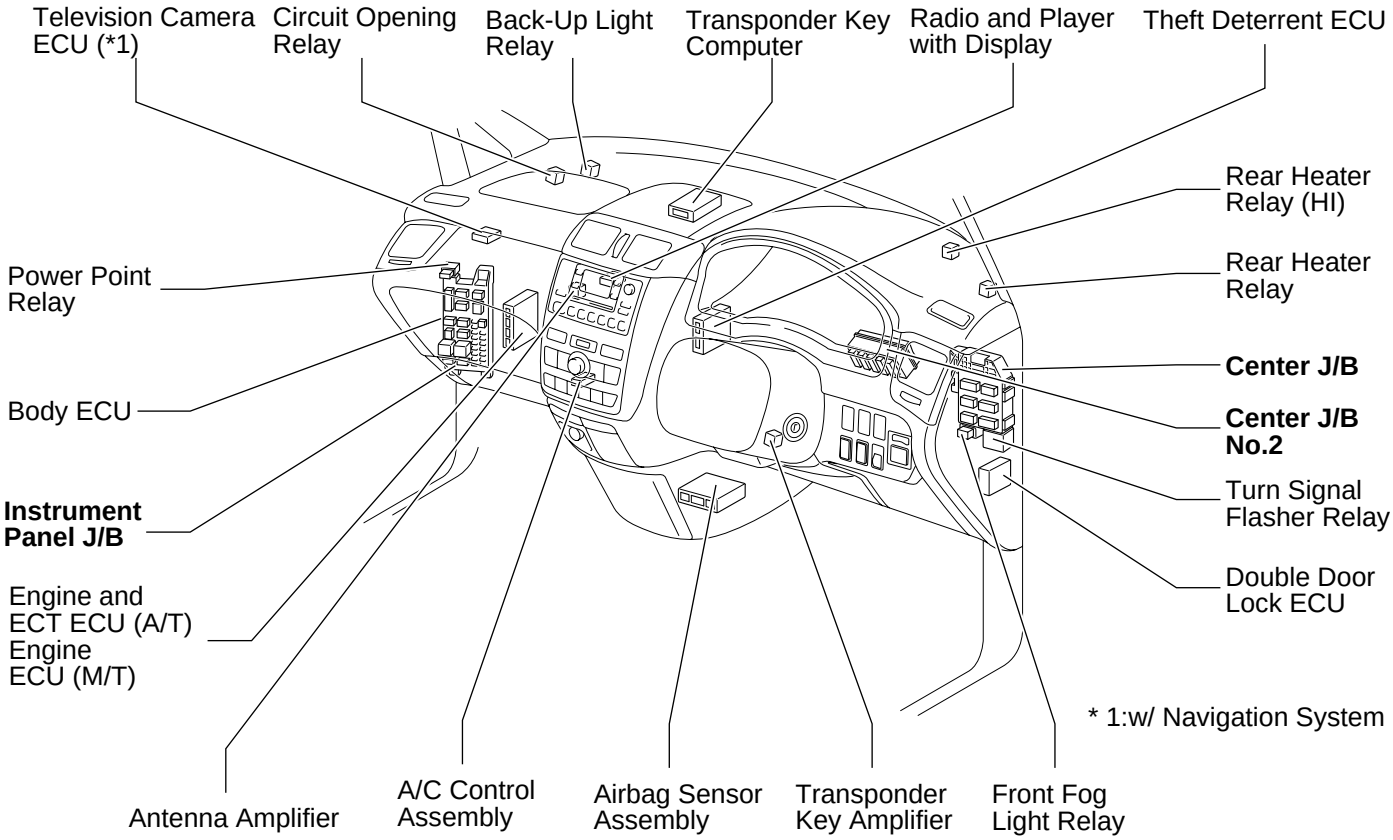
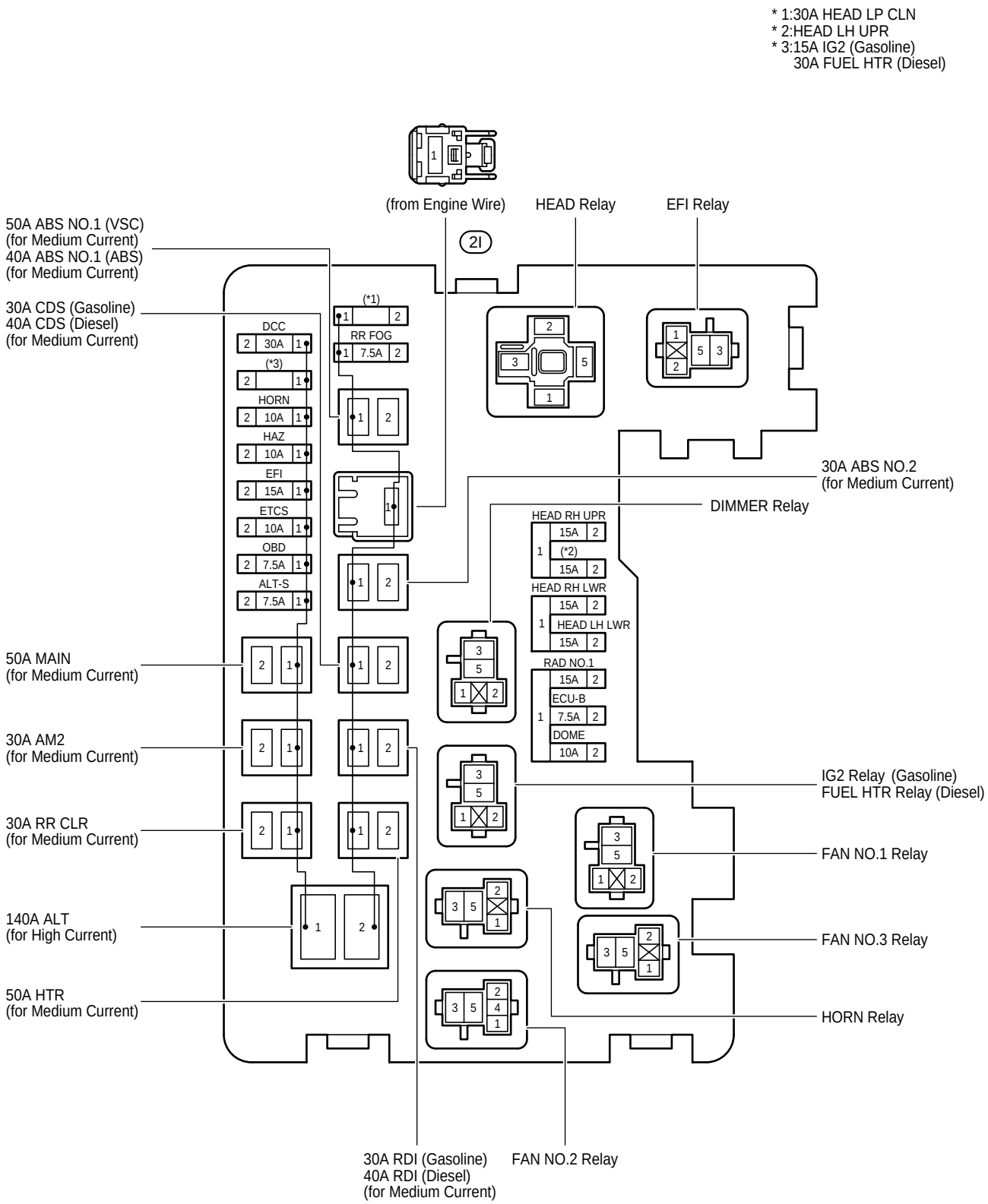
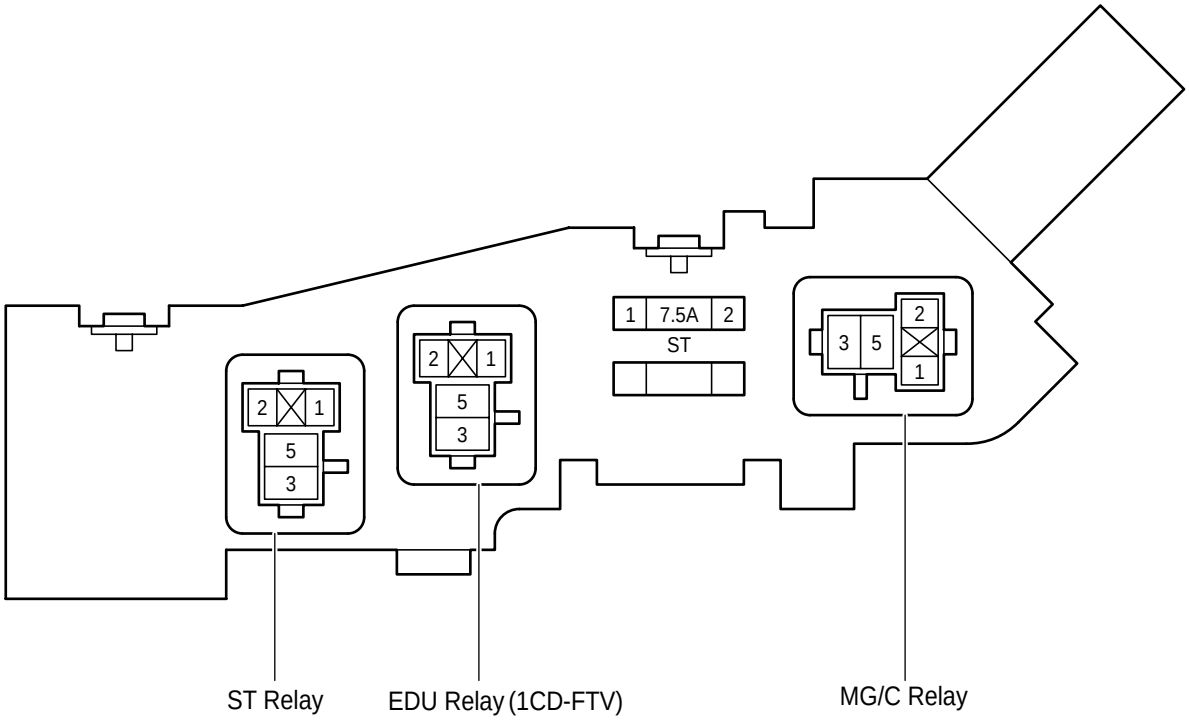


D RELAY LOCATIONS

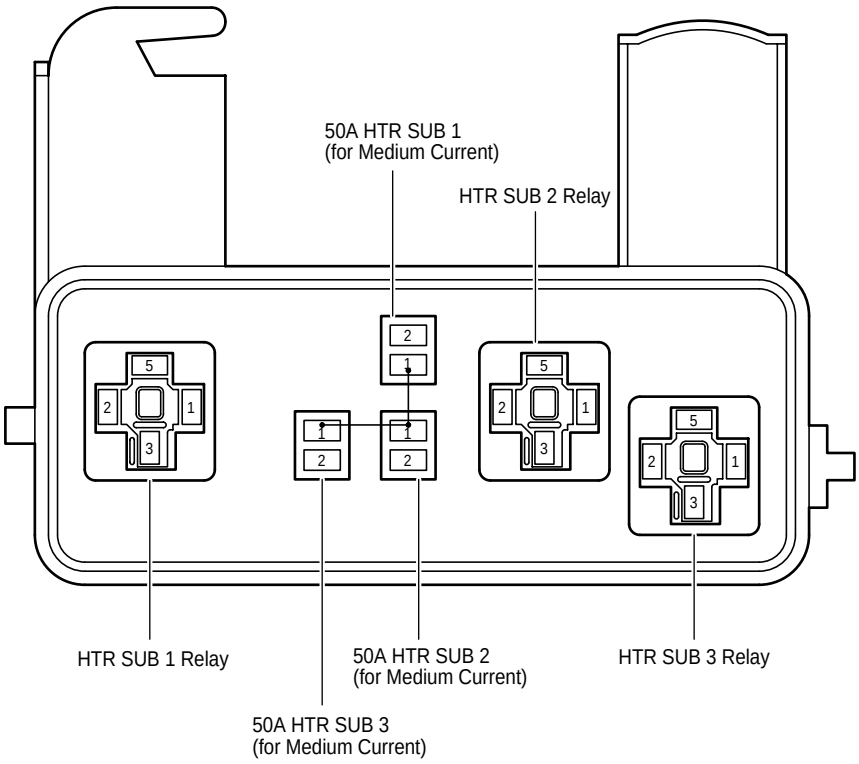
② : Engine Room R/B and J/B	Front Side of Left Suspension Tower (See Page 8)



⑦ : Engine Room R/B No.2	Front Side of Left Suspension Tower (See Page 8)

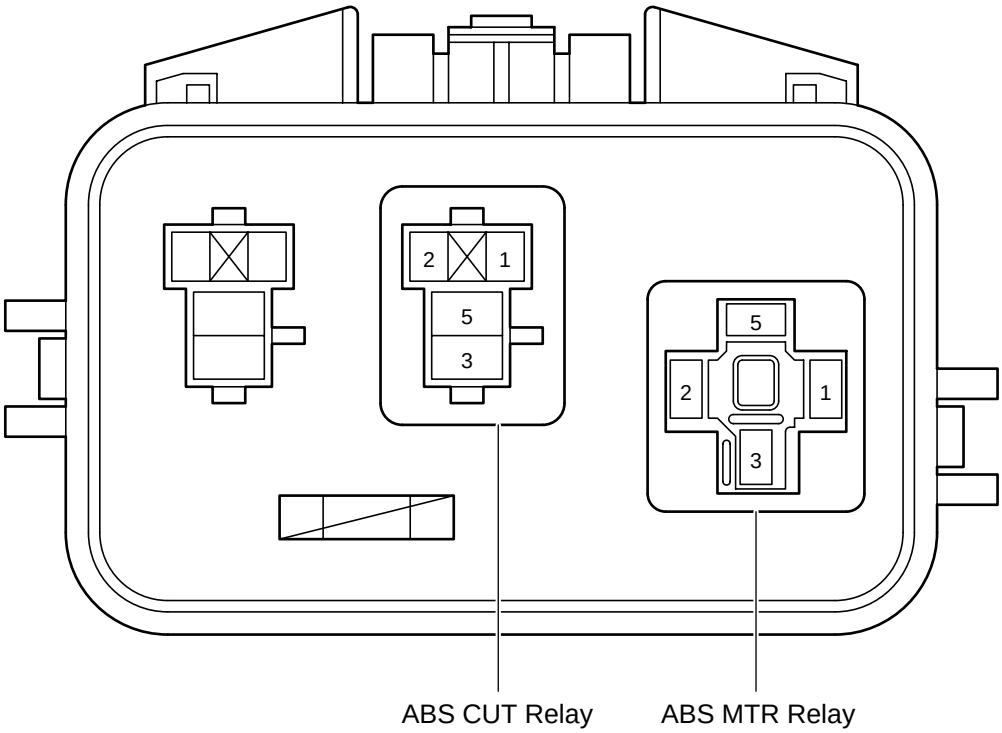


⑤ : Engine Room R/B No.4	Left Side of Air Cleaner (See Page 8)



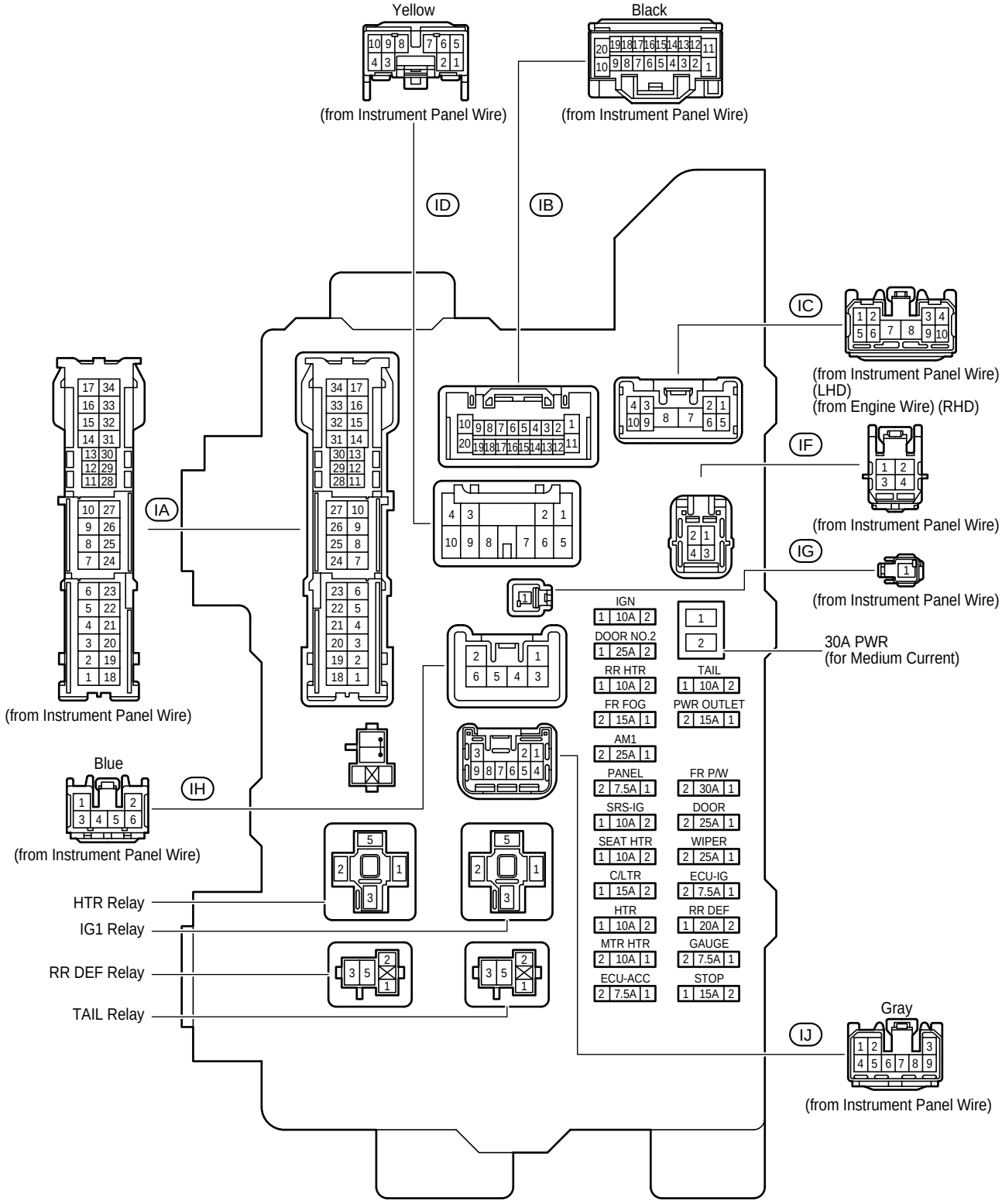
D RELAY LOCATIONS

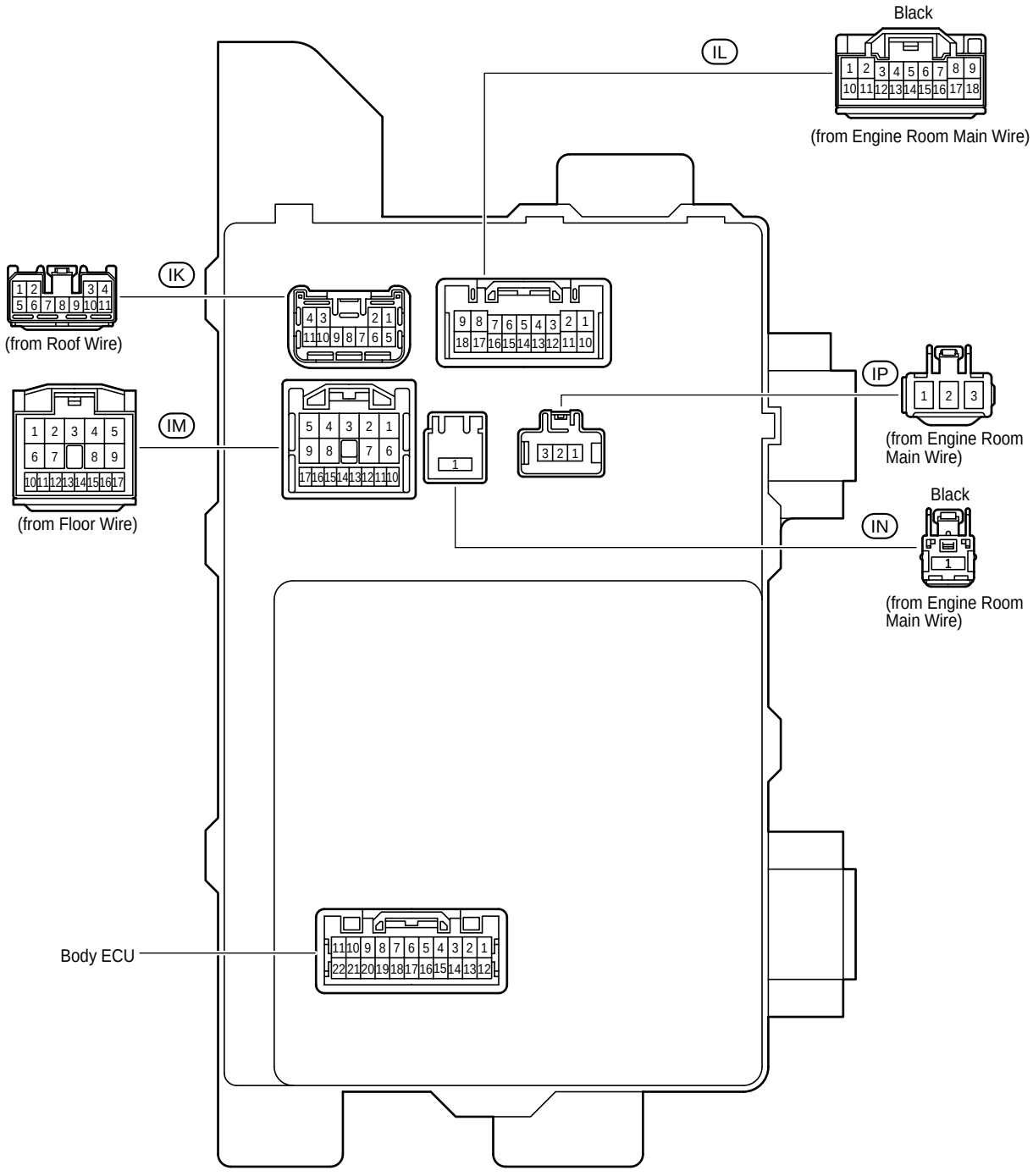
⑥ : ABS R/B	Engine Compartment Right (See Page 8)



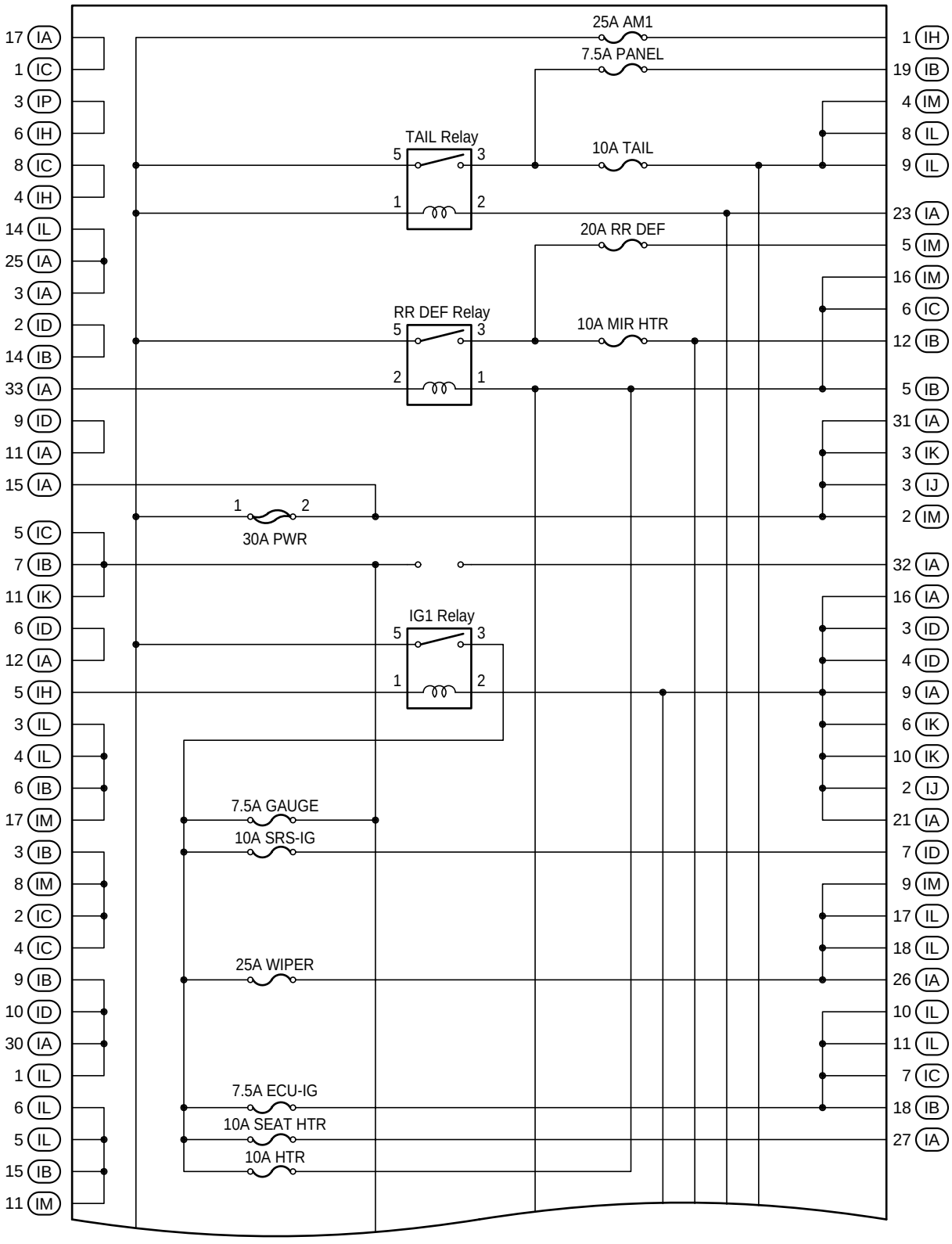
D RELAY LOCATIONS

: Instrument Panel J/B	LHD : Lower Finish Panel (See Page 9)
	RHD : Left Side of Glove Box (See Page 9)




Black
IL
(from Engine Room Main Wire)
IK
(from Roof Wire)
IP
(from Engine Room Main Wire)
IM
(from Floor Wire)
Black
IN
(from Engine Room Main Wire)
Body ECU

[Instrument Panel J/B Inner Circuit]



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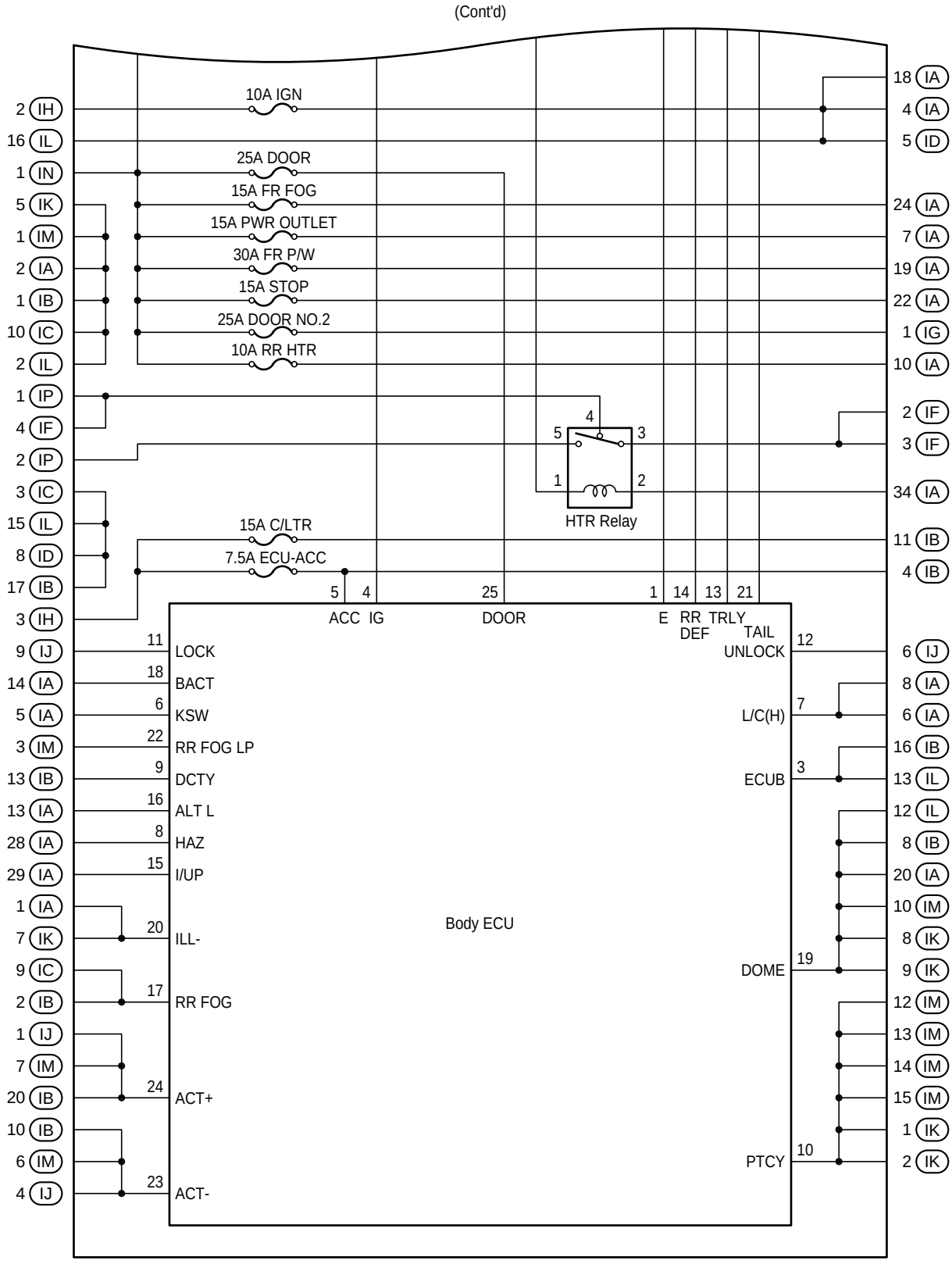
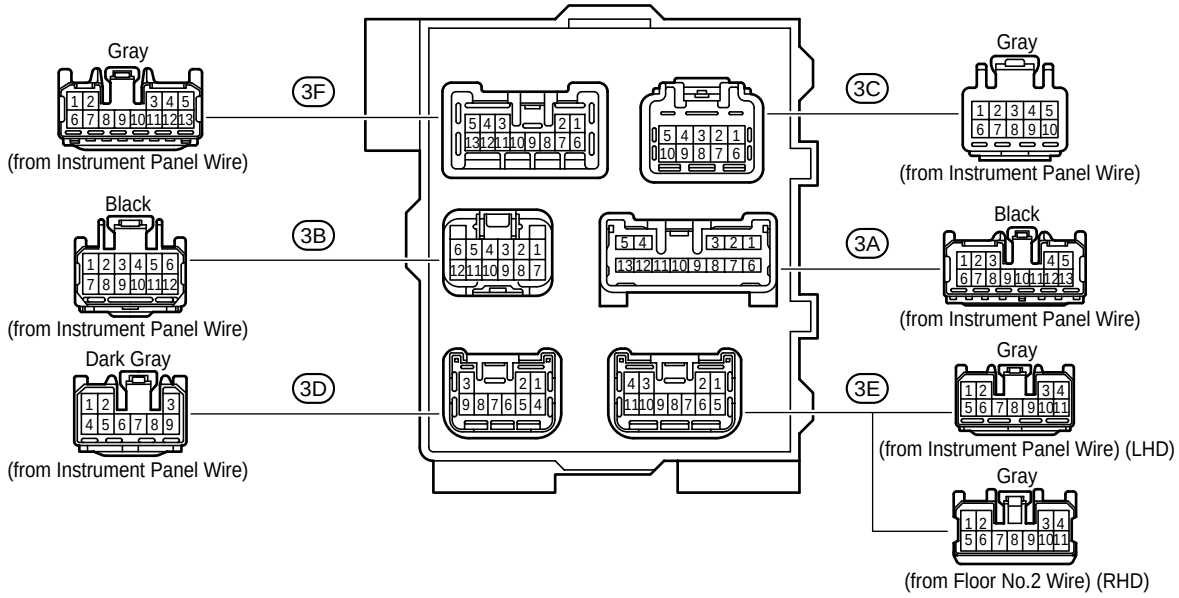
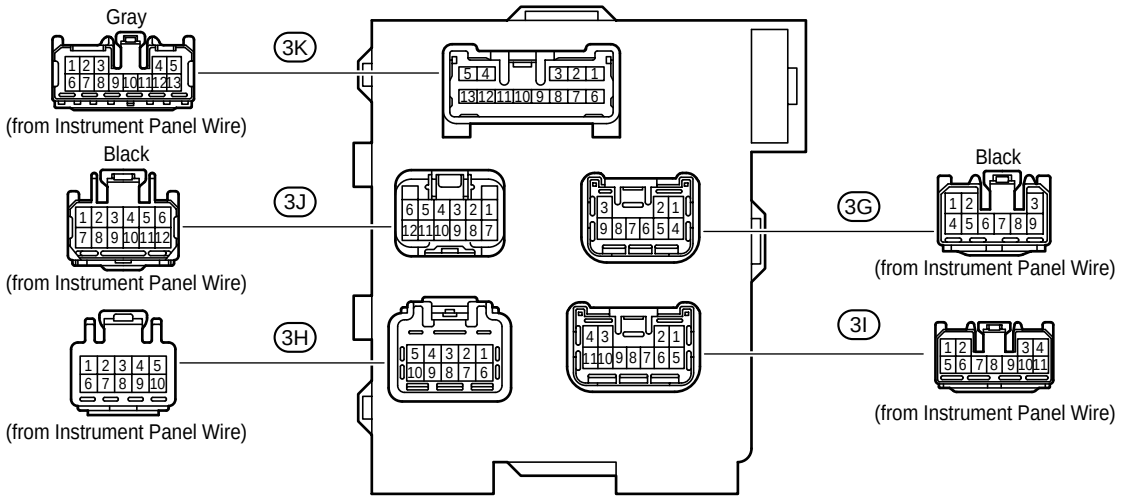

(Cont'd)
10A IGN
25A DOOR
15A FR FOG
15A PWR OUTLET
30A FR P/W
15A STOP
25A DOOR NO.2
10A RR HTR
HTR Relay
15A C/LTR
7.5A ECU-ACC
ACC
IG
DOOR
E
RR DEF
TRLY
TAIL
Body ECU
LOCK
BACT
KSW
RR FOG LP
DCTY
ALT L
HAZ
I/UP
ILL-
RR FOG
ACT+
ACT-
UNLOCK
L/C(H)
ECUB
DOME
PTCY

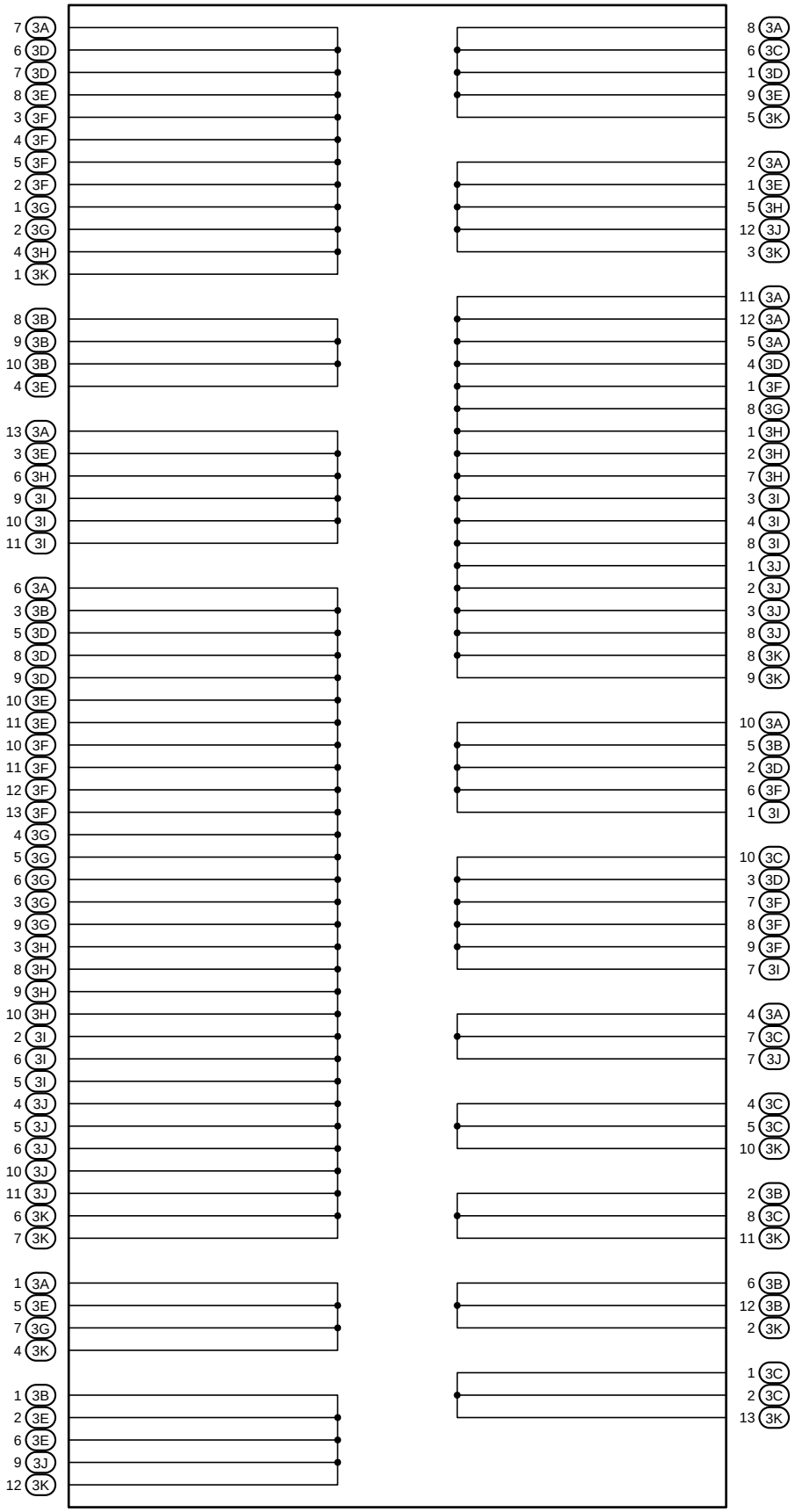
D RELAY LOCATIONS

: Center J/B	LHD : Right Side of Glove Box (See Page 9)
	RHD : Lower Finish Panel (See Page 9)



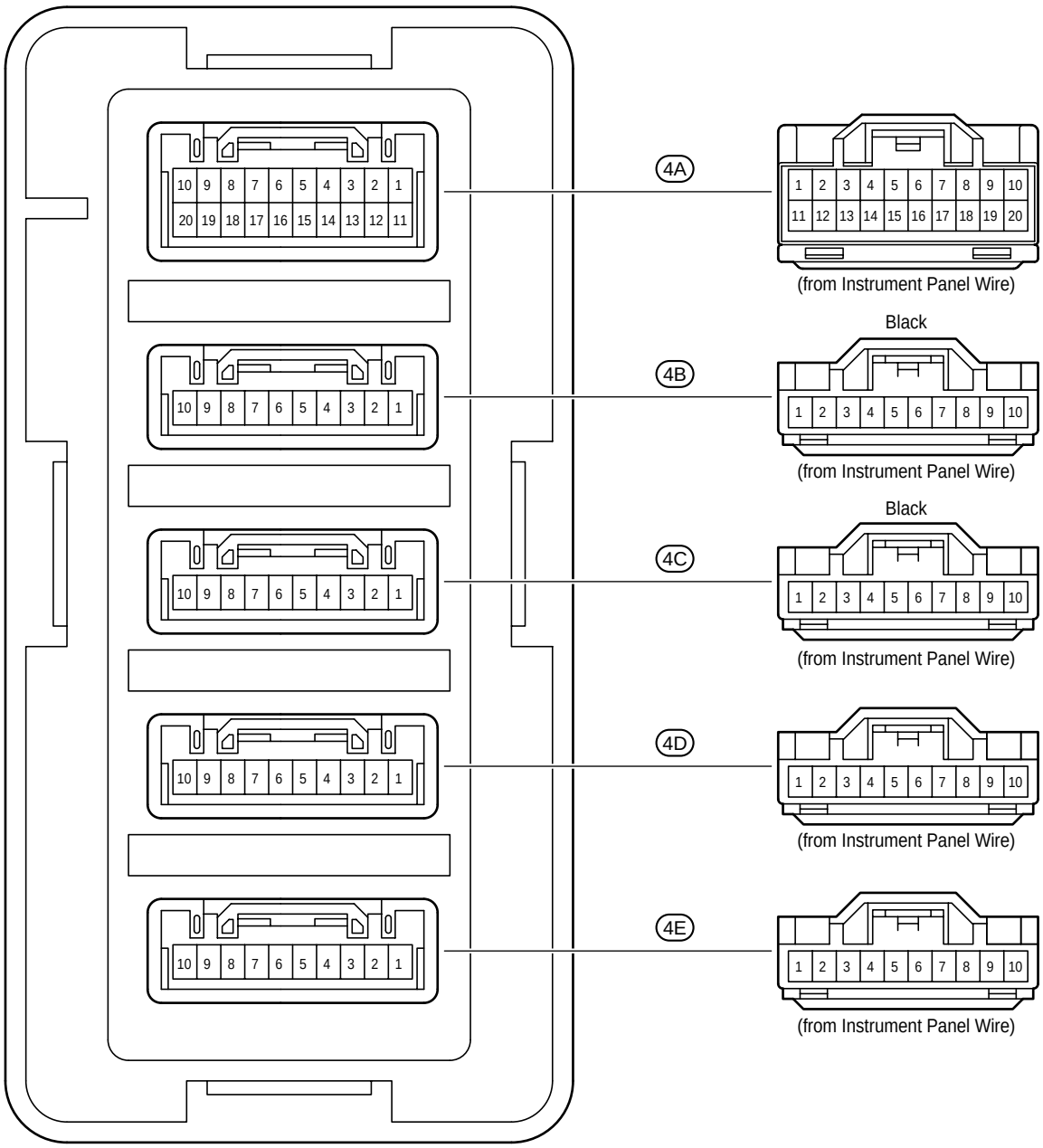


[Center J/B Inner Circuit]

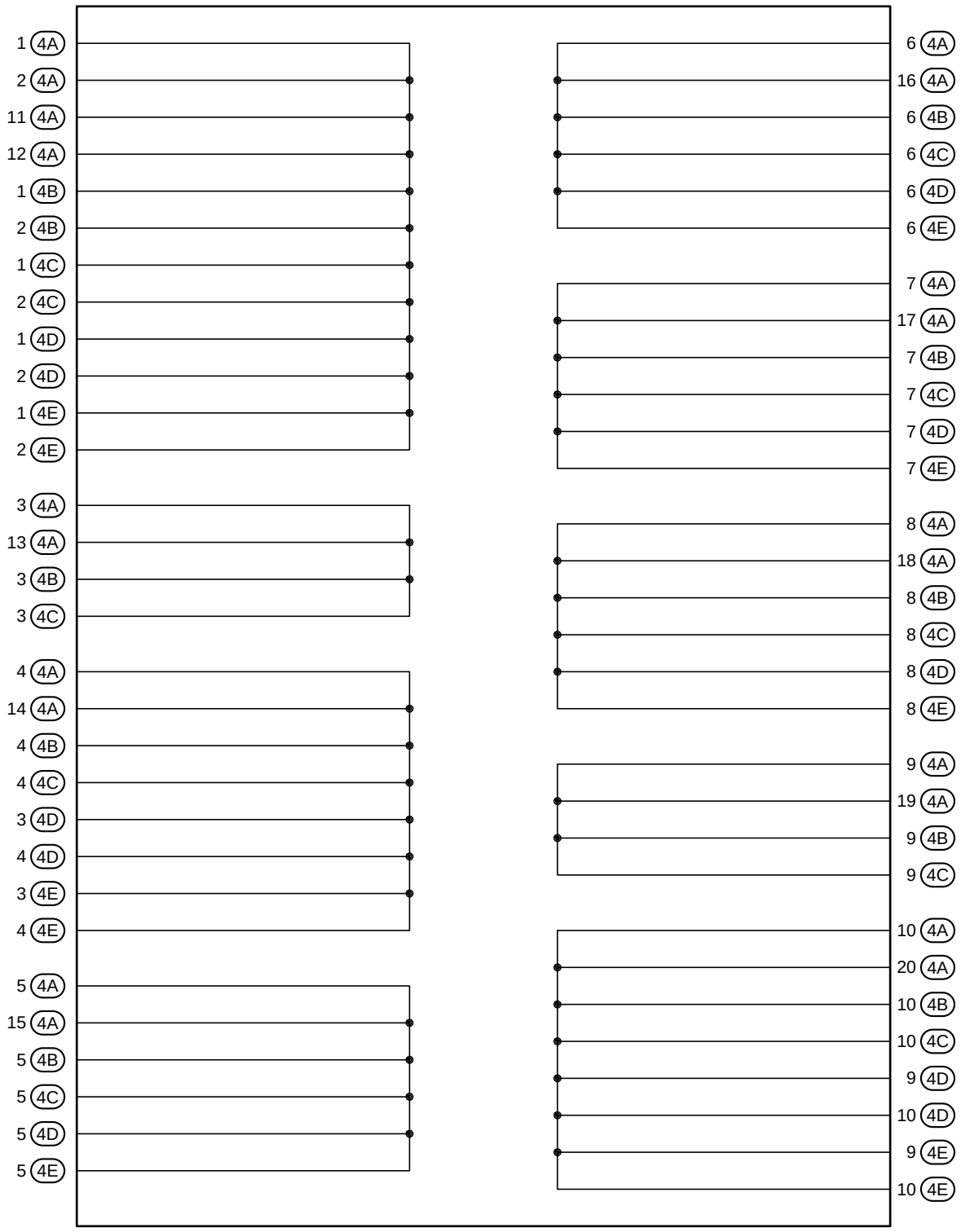


D RELAY LOCATIONS

: Center J/B No.2	Near the Steering Column (See Page 9)

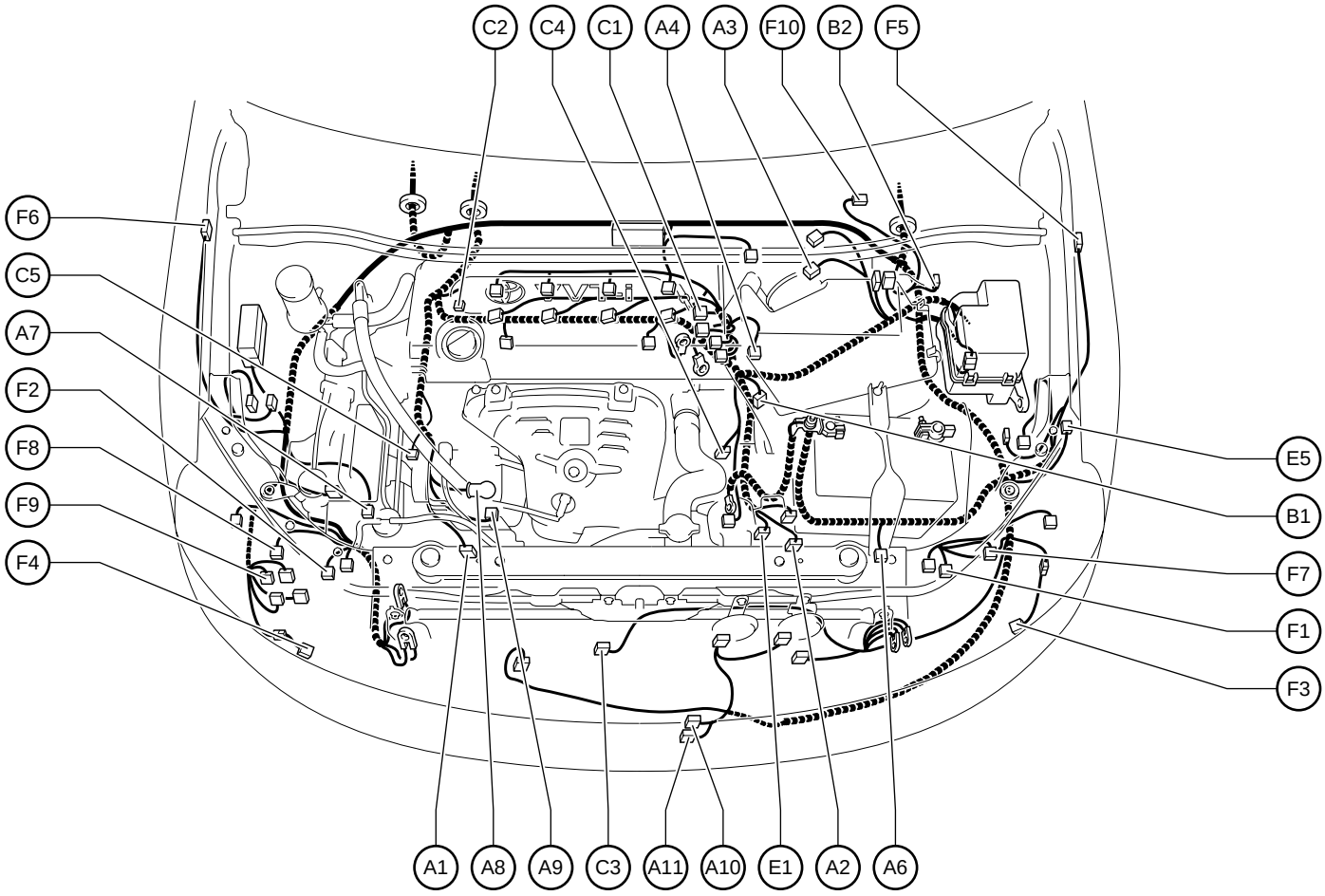


[Center J/B No.2 Inner Circuit]



Position of Parts in Engine Compartment

[LHD : 1AZ–FE]



A 1 A/C Lock Sensor
A/C Magnetic Clutch
A 2 A/T Indicator Light SW
Back–Up Light SW
Neutral Start SW
A 3 Air Flow Meter
A 4 Air Fuel Ratio Sensor (Bank 1 Sensor 1)
A 6 Airbag Sensor Front LH
A 7 Airbag Sensor Front RH
A 8 Alternator
A 9 Alternator
A10 Ambient Temp. Sensor No.1
A11 Ambient Temp. Sensor No.2

B 1 Back–Up Light SW
B 2 Brake Fluid Level Warning SW

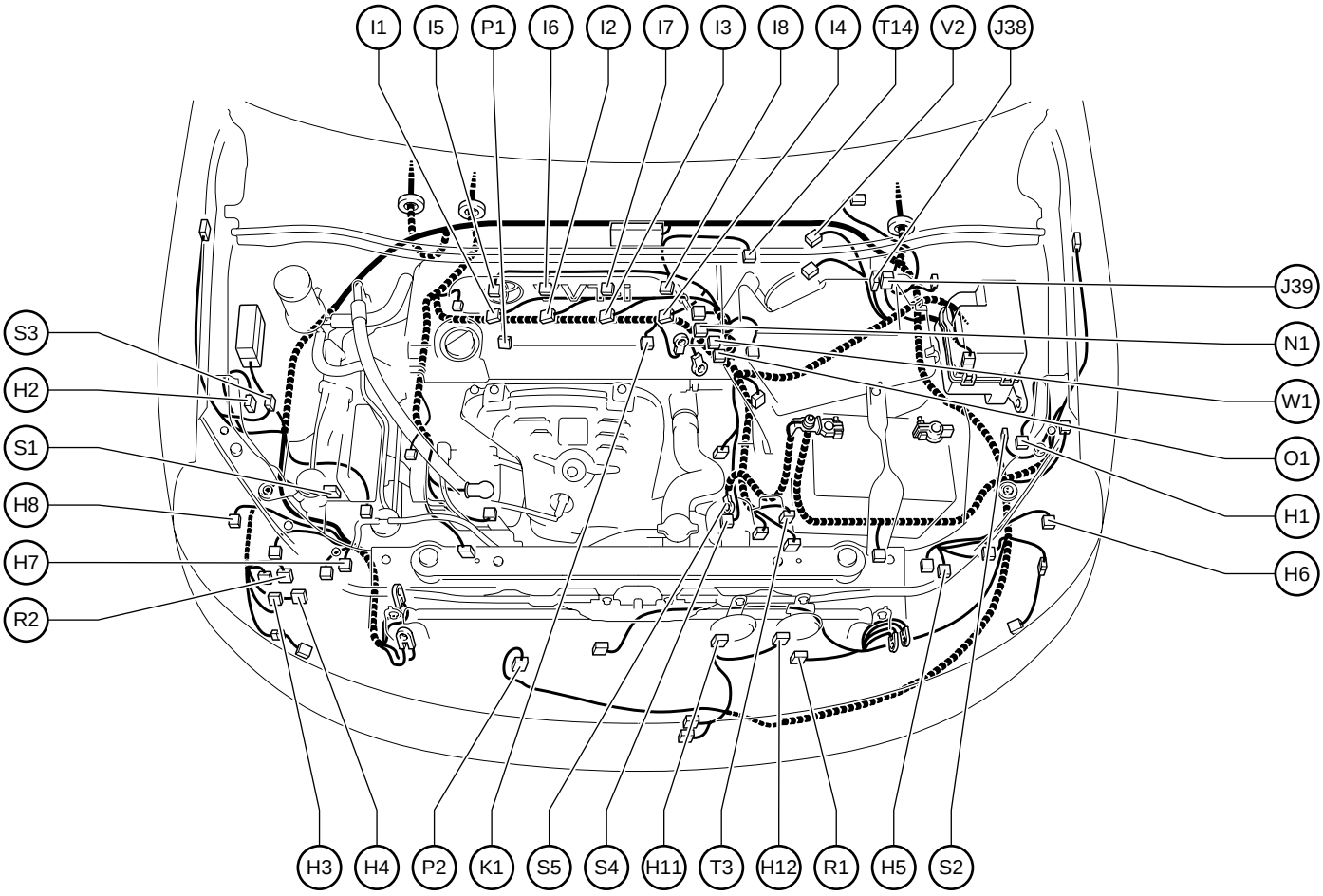
C 1 Camshaft Position Sensor
C 2 Camshaft Timing Oil Control Valve
C 3 Condenser Fan Motor
C 4 Counter Gear Speed Sensor
C 5 Crankshaft Position Sensor

E 1 ECT Solenoid
E 5 Engine Hood Courtesy SW

F 1 Front Clearance Light LH
F 2 Front Clearance Light RH
F 3 Front Fog Light LH
F 4 Front Fog Light RH
F 5 Front Side Turn Signal Light LH
F 6 Front Side Turn Signal Light RH
F 7 Front Turn Signal Light LH
F 8 Front Turn Signal Light RH
F 9 Front Washer Motor
F10 Front Wiper Motor

Position of Parts in Engine Compartment

[LHD : 1AZ–FE]



H 1 Headlight Beam Level Control Actuator LH
H 2 Headlight Beam Level Control Actuator RH
H 3 Headlight Cleaner Motor
H 4 Headlight Cleaner Relay
H 5 Headlight LH (High)
H 6 Headlight LH (Low)
H 7 Headlight RH (High)
H 8 Headlight RH (Low)
H 11 Horn (High)
H 12 Horn (Low)

I 1 Ignition Coil and Igniter No.1
I 2 Ignition Coil and Igniter No.2
I 3 Ignition Coil and Igniter No.3
I 4 Ignition Coil and Igniter No.4
I 5 Injector No.1
I 6 Injector No.2
I 7 Injector No.3
I 8 Injector No.4

J 38 Junction Block
J 39 Junction Block

K 1 Knock Sensor

N 1 Noise Filter

O 1 Oil Pressure SW

P 1 Power Steering Oil Pressure SW
P 2 Pressure SW

R 1 Radiator Fan Motor
R 2 Rear Washer Motor

S 1 Skid Control ECU with Actuator
S 2 Speed Sensor Front LH
S 3 Speed Sensor Front RH
S 4 Starter
S 5 Starter

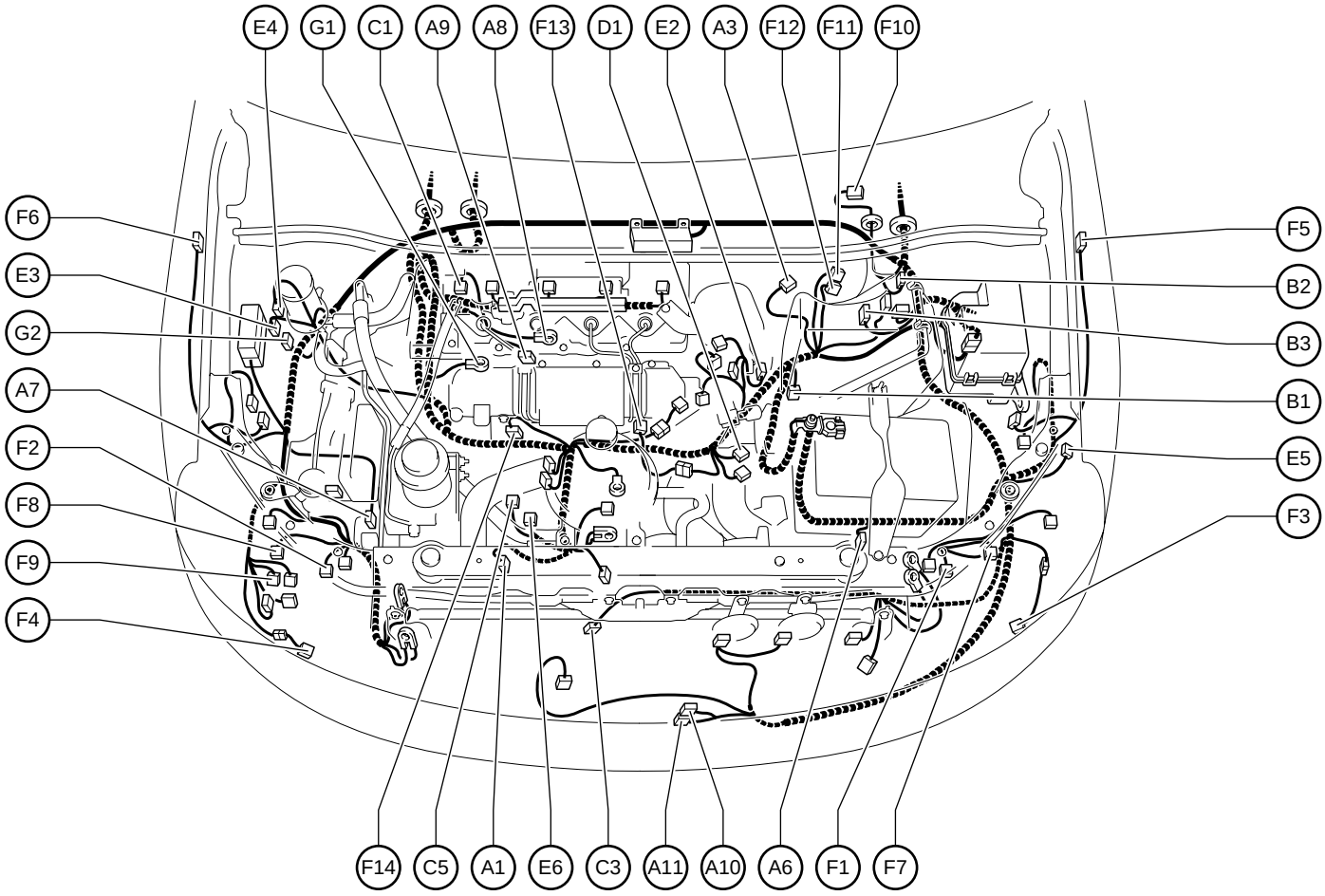
T 3 Turbine Speed Sensor
T 14 Throttle Control Motor
Throttle Position Sensor

V 2 VSV (EVAP)

W 1 Water Temp. Sensor

Position of Parts in Engine Compartment

[LHD : 1CD–FTV]



A 1 A/C Lock Sensor
A/C Magnetic Clutch
A 3 Air Flow Meter
A 6 Airbag Sensor Front LH
A 7 Airbag Sensor Front RH
A 8 Alternator
A 9 Alternator
A 10 Ambient Temp. Sensor No.1
A 11 Ambient Temp. Sensor No.2

B 1 Back–Up Light SW
B 2 Brake Fluid Level Warning SW
B 3 Brake Vacuum Warning SW

C 1 Camshaft Position Sensor
C 3 Condenser Fan Motor
C 5 Crankshaft Position Sensor

D 1 Diesel Throttle Control Motor

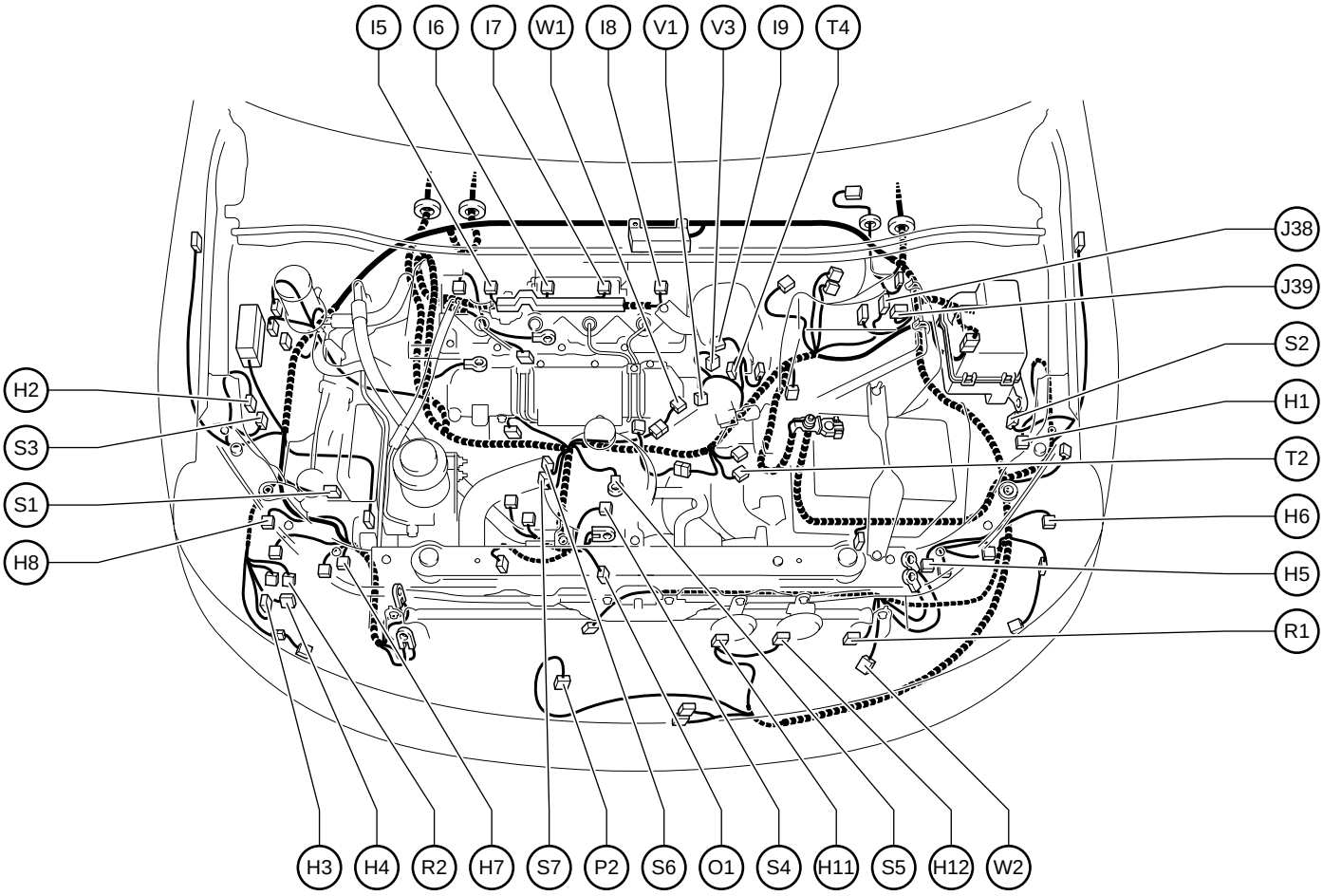
E 2 EGR Valve Control Motor
E 3 Electronic Driver Unit
E 4 Electronic Driver Unit
E 5 Engine Hood Courtesy SW
E 6 Engine Oil Level Sensor

F 1 Front Clearance Light LH
F 2 Front Clearance Light RH
F 3 Front Fog Light LH
F 4 Front Fog Light RH
F 5 Front Side Turn Signal Light LH
F 6 Front Side Turn Signal Light RH
F 7 Front Turn Signal Light LH
F 8 Front Turn Signal Light RH
F 9 Front Washer Motor
F 10 Front Wiper Motor
F 11 Fuel Filter Warning SW
F 12 Fuel Heater
F 13 Fuel Pressure Sensor
F 14 Fuel Temp. Sensor

G 1 Glow Plug
G 2 Glow Plug Relay

Position of Parts in Engine Compartment

[LHD : 1CD–FTV]



H 1 Headlight Beam Level Control Actuator LH
H 2 Headlight Beam Level Control Actuator RH
H 3 Headlight Cleaner Motor
H 4 Headlight Cleaner Relay
H 5 Headlight LH (High)
H 6 Headlight LH (Low)
H 7 Headlight RH (High)
H 8 Headlight RH (Low)
H 11 Horn (High)
H 12 Horn (Low)

I 5 Injector No.1
I 6 Injector No.2
I 7 Injector No.3
I 8 Injector No.4
I 9 Intake Air Temp. Sensor

J 38 Junction Block
J 39 Junction Block

O 1 Oil Pressure SW

P 2 Pressure SW

R 1 Radiator Fan Motor
R 2 Rear Washer Motor

S 1 Skid Control ECU with Actuator
S 2 Speed Sensor Front LH
S 3 Speed Sensor Front RH
S 4 Starter
S 5 Starter
S 6 Suction Control Valve No.1
S 7 Suction Control Valve No.2

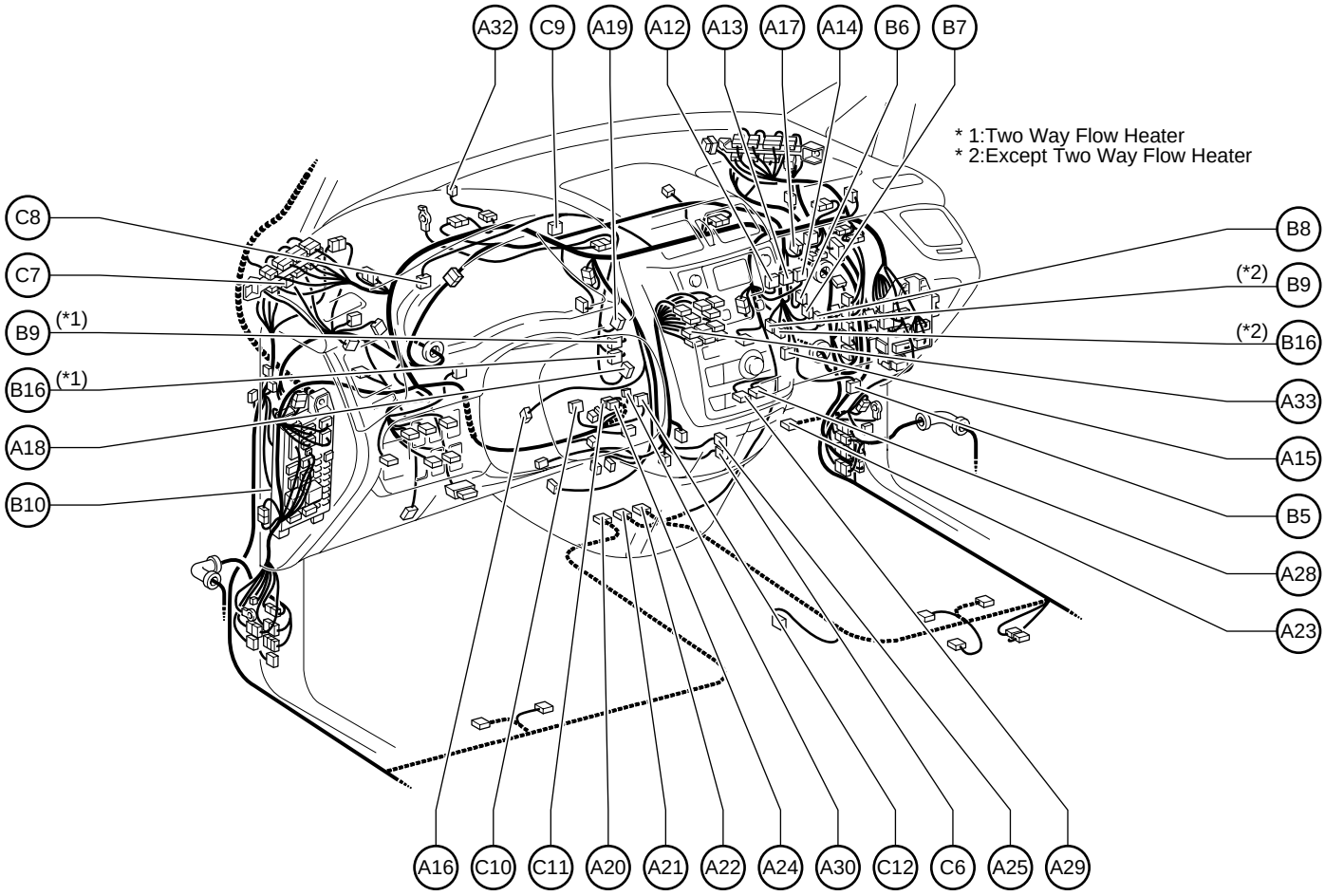
T 2 Throttle Position SW
T 4 Turbo Pressure Sensor

V 1 VRV (EGR)
V 3 VSV (Turbo Pressure Sensor)

W 1 Water Temp. Sensor
W 2 Water Temp. SW

Position of Parts in Instrument Panel

[LHD]



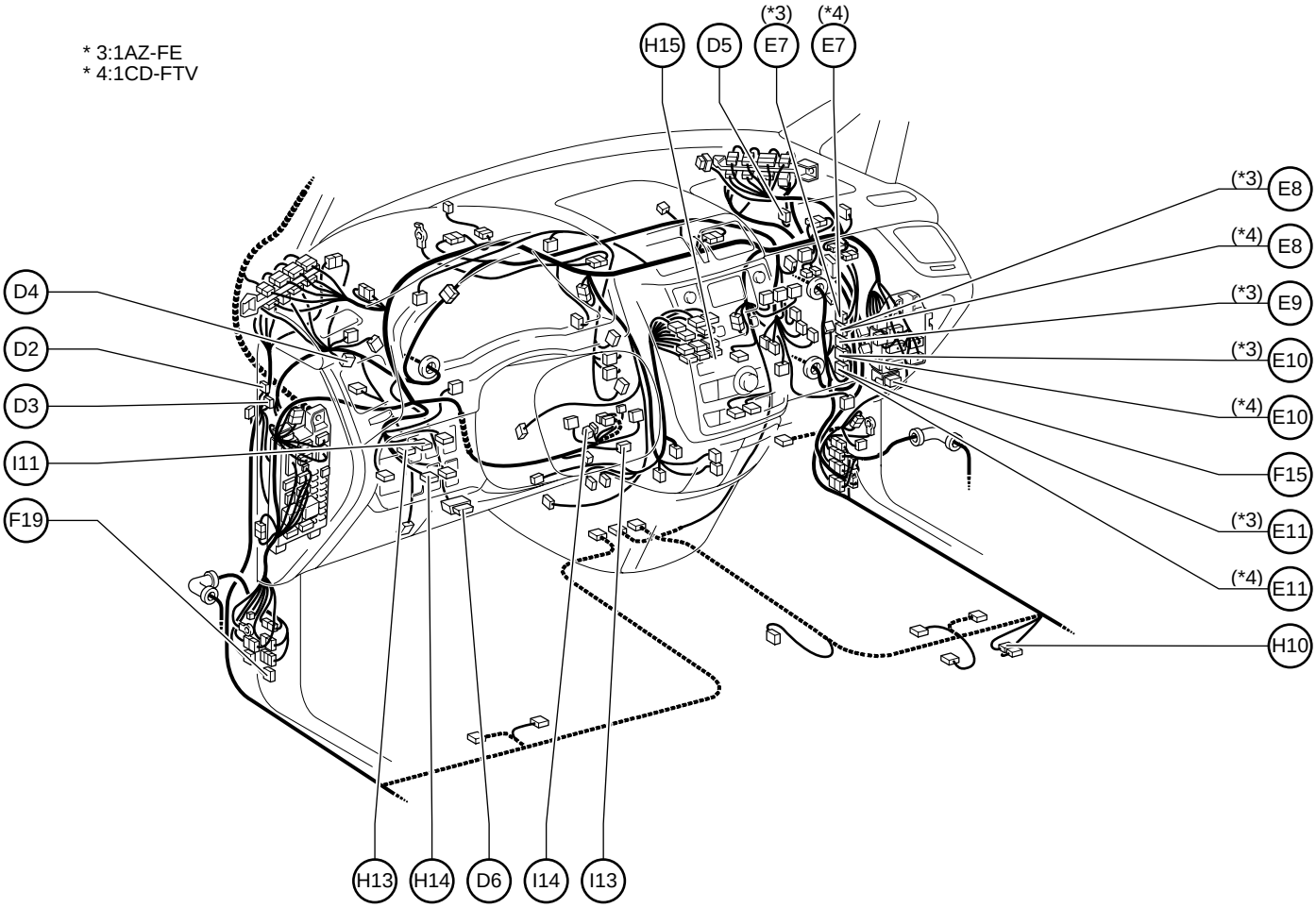
A12 A/C Amplifier
A13 A/C Amplifier
A14 A/C Amplifier
A15 A/C Evaporator Temp. Sensor
A16 Accelerator Pedal Position Sensor
A17 Air Inlet Control Servo Motor
A18 Air Mix Control Servo Motor
A19 Air Vent Mode Control Servo Motor
A20 Airbag Sensor Assembly
A21 Airbag Sensor Assembly
A22 Airbag Sensor Assembly
A23 Airbag Squib (Front Passenger Airbag Assembly)
A24 Airbag Squib (Steering Wheel Pad)
A25 Ashtray Illumination
A28 A/C Control Assembly
A29 A/C Control Assembly
A30 A/C Room Temp. Sensor
A32 A/C Solar Sensor
A33 Antenna Amplifier

B 5 Blower Motor
B 6 Blower Relay (HI)
B 7 Blower Relay (M1)
B 8 Blower Relay (M2)
B 9 Blower Resistor
B10 Body ECU
B16 Blower Motor Controller

C 6 Cigarette Lighter
C 7 Circuit Opening Relay
C 8 Combination Meter
C 9 Combination Meter
C10 Combination SW
C11 Combination SW
C12 Combination SW

Position of Parts in Instrument Panel

[LHD]



D 2 Diode
D 3 Diode
D 4 Diode (Fan)
D 5 Diode
D 6 DLC3

E 7 Engine and ECT ECU (A/T)
Engine ECU (M/T)
E 8 Engine and ECT ECU (A/T)
Engine ECU (M/T)
E 9 Engine and ECT ECU (A/T)
Engine ECU (M/T)
E 10 Engine and ECT ECU (A/T)
Engine ECU (M/T)
E 11 Engine and ECT ECU (A/T)
Engine ECU (M/T)

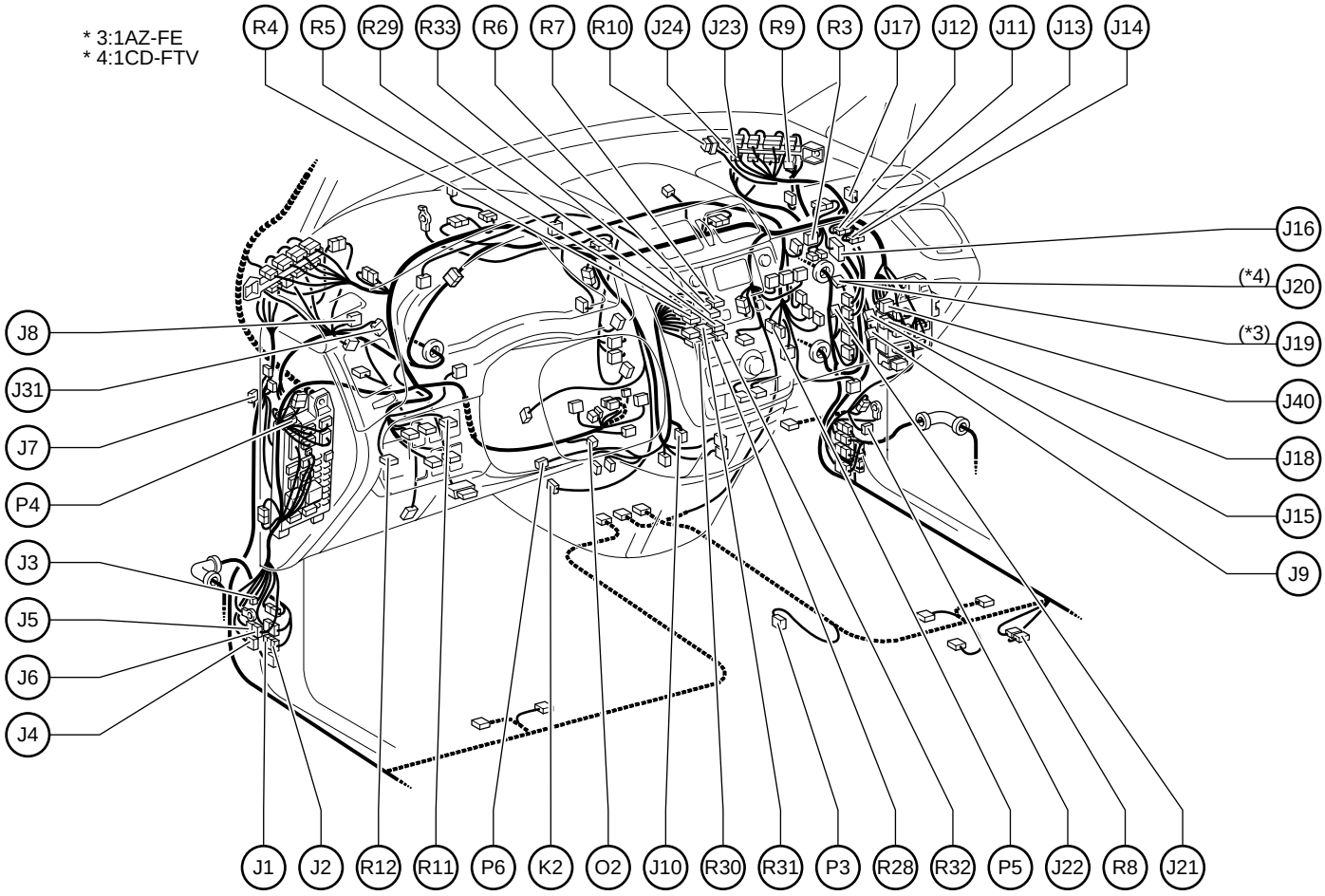
F 15 Front Fog Light Relay
F 19 Fuse Holder

H10 Heated Oxygen Sensor (Bank 1 Sensor 2)
H13 Headlight Beam Level Control SW
H14 Headlight Cleaner SW
H15 Heater Control Panel

I 11 Idle–Up SW
I 13 Ignition Key Cylinder Light
Transponder Key Amplifier
I 14 Ignition SW

Position of Parts in Instrument Panel

[LHD]



J 1 Junction Connector
J 2 Junction Connector
J 3 Junction Connector
J 4 Junction Connector
J 5 Junction Connector
J 6 Junction Connector
J 7 Junction Connector
J 8 Junction Connector
J 9 Junction Connector
J 10 Junction Connector
J 11 Junction Connector
J 12 Junction Connector
J 13 Junction Connector
J 14 Junction Connector
J 15 Junction Connector
J 16 Junction Connector
J 17 Junction Connector
J 18 Junction Connector
J 19 Junction Connector
J 20 Junction Connector
J 21 Junction Connector
J 22 Junction Connector
J 23 Junction Connector
J 24 Junction Connector
J 31 Junction Connector
J 40 Junction Connector

K 2 Kick Down SW

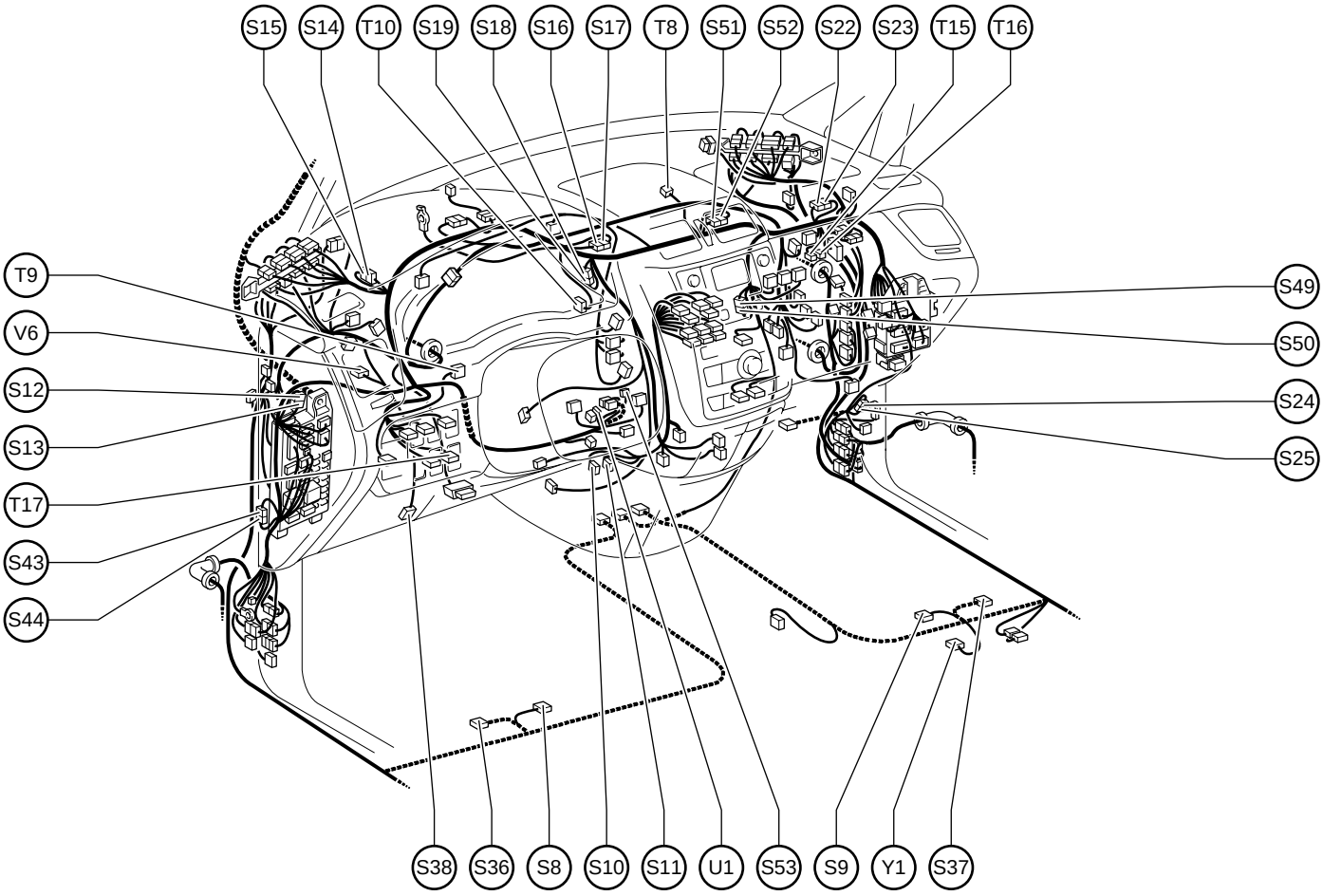
O 2 O/D Main SW

P 3 Parking Brake SW
P 4 Power Point Relay
P 5 PTC Heater
P 6 PTC Heater Amplifier

R 3 Radar Sensor
R 4 Radio and Player with Display
R 5 Radio and Player with Display
R 6 Radio and Player
Radio and Player with Display
R 7 Radio and Player
Radio and Player with Display
R 8 Rear Heater Blower Motor
R 9 Rear Heater Relay
R10 Rear Heater Relay (HI)
R11 Rear Heater SW
R12 Remote Control Mirror SW
R28 Radio and Player with Display
R29 Radio and Player with Display
R30 Radio and Player with Display
R31 Radio and Player with Display
R32 Radio and Player with Display
R33 Radio and Player with Display

Position of Parts in Instrument Panel

[LHD]



S 8 Seat Heater LH
S 9 Seat Heater RH
S10 Seat Heater SW LH
S11 Seat Heater SW RH
S12 Short Connector
S13 Short Connector
S14 Short Connector
S15 Short Connector
S16 Short Connector
S17 Short Connector
S18 Short Connector
S19 Short Connector
S22 Short Connector
S23 Short Connector
S24 Short Connector
S25 Short Connector
S36 Side Airbag Squib LH
S37 Side Airbag Squib RH
S38 Stop Light SW
S43 Short Connector
S44 Short Connector
S49 Short Connector
S50 Short Connector
S51 Short Connector
S52 Short Connector
S53 Steering Sensor

T 8 Transponder Key Computer
T 9 Turn Signal Flasher Relay
T10 TVSS ECU
T15 Television Camera ECU
T16 Television Camera ECU
T17 TRC OFF SW

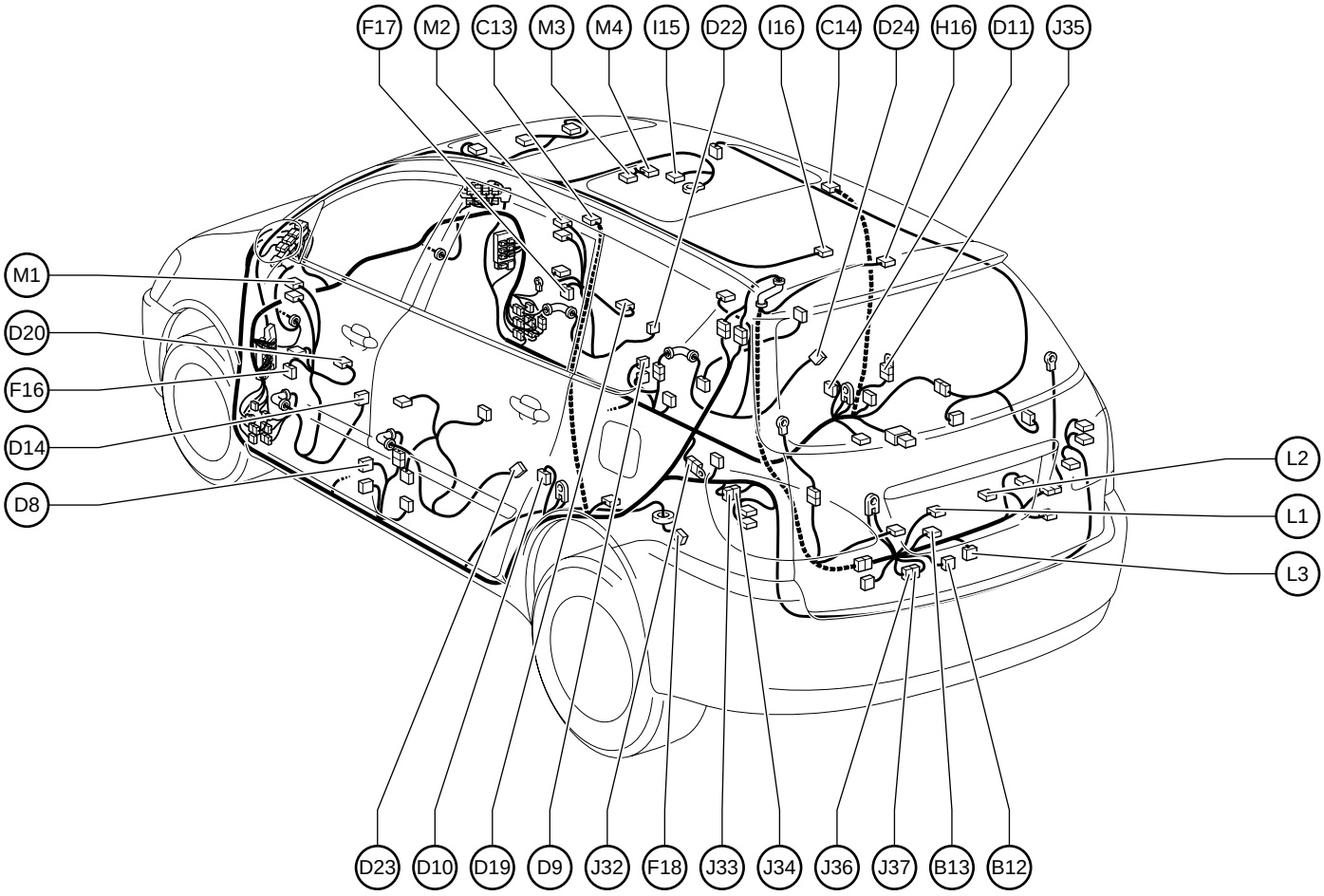
U 1 Unlock Warning SW

V 6 VSC Warning Buzzer

Y 1 Yaw Rate Sensor

Position of Parts in Body

[LHD]



B12 Back Door Courtesy SW
Back Door Lock Motor
B13 Back Door Opener SW

C13 Curtain Shield Airbag Squib LH
C14 Curtain Shield Airbag Squib RH

D 8 Door Courtesy SW Front LH
D 9 Door Courtesy SW Front RH
D10 Door Courtesy SW Rear LH
D11 Door Courtesy SW Rear RH
D14 Door Key Lock and Unlock SW Front LH
Door Lock Motor Front LH
Door Unlock Detection SW Front LH
D19 Door Lock Control SW Front RH
Power Window SW Front RH
D20 Door Lock Control SW
Power Window Master SW
D22 Door Lock Motor Front RH
D23 Door Lock Motor Rear LH
D24 Door Lock Motor Rear RH

F16 Front Door Speaker LH
F17 Front Door Speaker RH
F18 Fuel Pump
Fuel Sender

H16 High Mounted Stop Light

I 15 Interior Light (Front)
I 16 Interior Light (Rear)

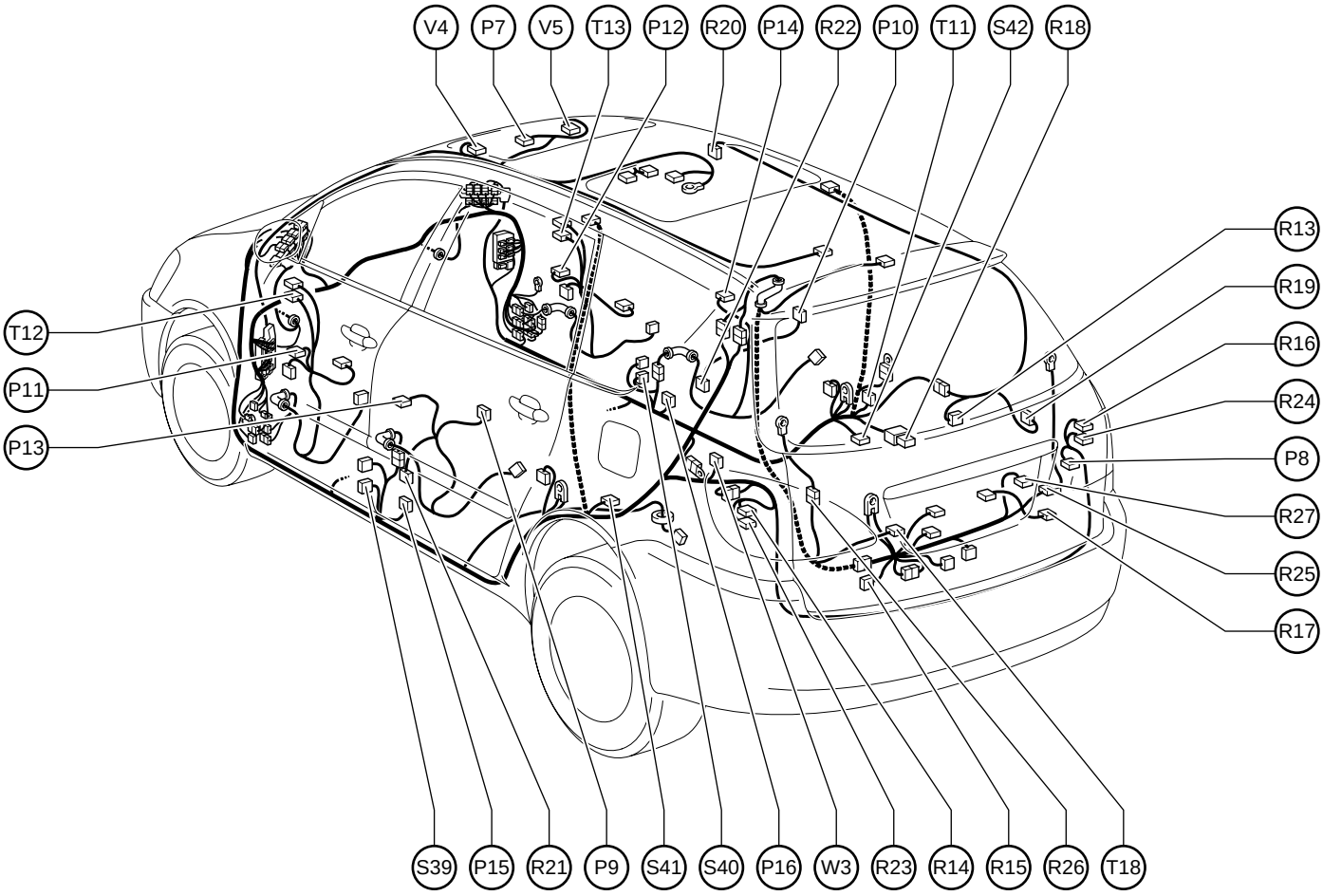
J 32 Junction Connector
J 33 Junction Connector
J 34 Junction Connector
J 35 Junction Connector
J 36 Junction Connector
J 37 Junction Connector

L 1 License Plate Light LH
L 2 License Plate Light RH
L 3 Luggage Compartment Light

M 1 Mirror Heater LH
Remote Control Mirror LH
M 2 Mirror Heater RH
Remote Control Mirror RH
M 3 Moon Roof Control Relay
Moon Roof Control SW
M 4 Moon Roof Limit SW
Moon Roof Motor

Position of Parts in Body

[LHD]



P 7 Personal Light
P 8 Power Outlet
P 9 Power Window Control SW Rear LH
P10 Power Window Control SW Rear RH
P11 Power Window Motor Front LH
P12 Power Window Motor Front RH
P13 Power Window Motor Rear LH
P14 Power Window Motor Rear RH
P15 Pretensioner LH
P16 Pretensioner RH

R13 Rear Blower Motor
R14 Rear Combination Light LH
R15 Rear Combination Light LH
R16 Rear Combination Light RH
R17 Rear Combination Light RH
R18 Rear Cooler Relay
R19 Rear Cooler Resistor
R20 Rear Cooler SW
R21 Rear Door Speaker LH
R22 Rear Door Speaker RH
R23 Rear Turn Signal Light LH
R24 Rear Turn Signal Light RH
R25 Rear Window Defogger
R26 Rear Window Defogger
R27 Rear Wiper Motor
Rear Wiper Relay

S39 Side Airbag Sensor LH
S40 Side Airbag Sensor RH
S41 Speed Sensor Rear LH
S42 Speed Sensor Rear RH

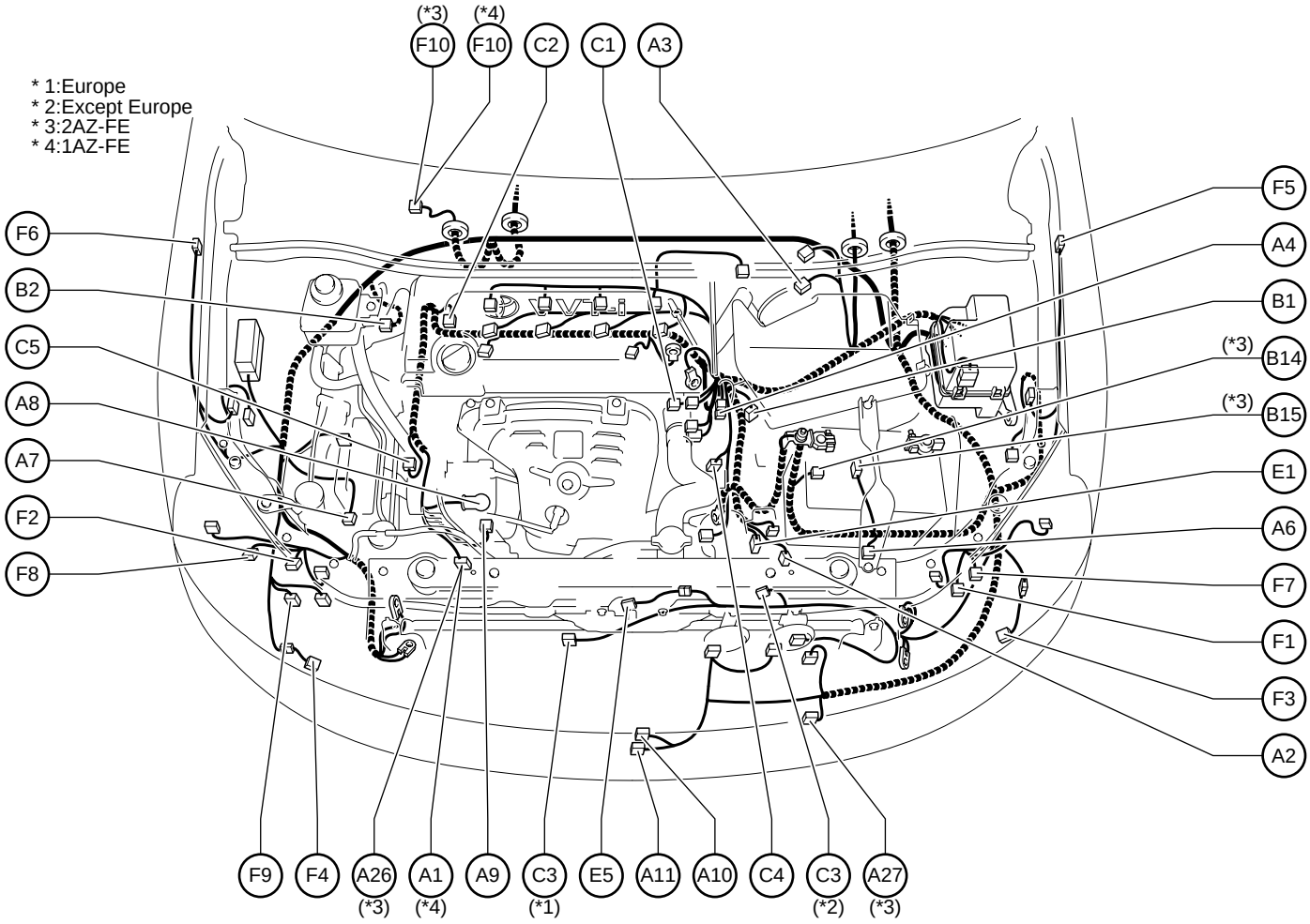
T 11 Theft Deterrent Siren
T 12 Tweeter LH
T 13 Tweeter RH
T 18 Television Camera

V 4 Vanity Light LH
V 5 Vanity Light RH

W 3 Wireless Door Lock Control Receiver

Position of Parts in Engine Compartment

[RHD : 1AZ–FE, 2AZ–FE]



A 1 A/C Lock Sensor
A/C Magnetic Clutch
A 2 A/T Indicator Light SW
Back–Up Light SW
Neutral Start SW
A 3 Air Flow Meter
A 4 Air Fuel Ratio Sensor (Bank 1 Sensor 1)
A 6 Airbag Sensor Front LH
A 7 Airbag Sensor Front RH
A 8 Alternator
A 9 Alternator
A10 Ambient Temp. Sensor No.1
A11 Ambient Temp. Sensor No.2
A26 A/C Compressor
A27 Air Conditioner Pressure Sensor

B 1 Back–Up Light SW
B 2 Brake Fluid Level Warning SW
B14 Battery Current Sensor Assembly
B15 Battery Thermometer Sensor

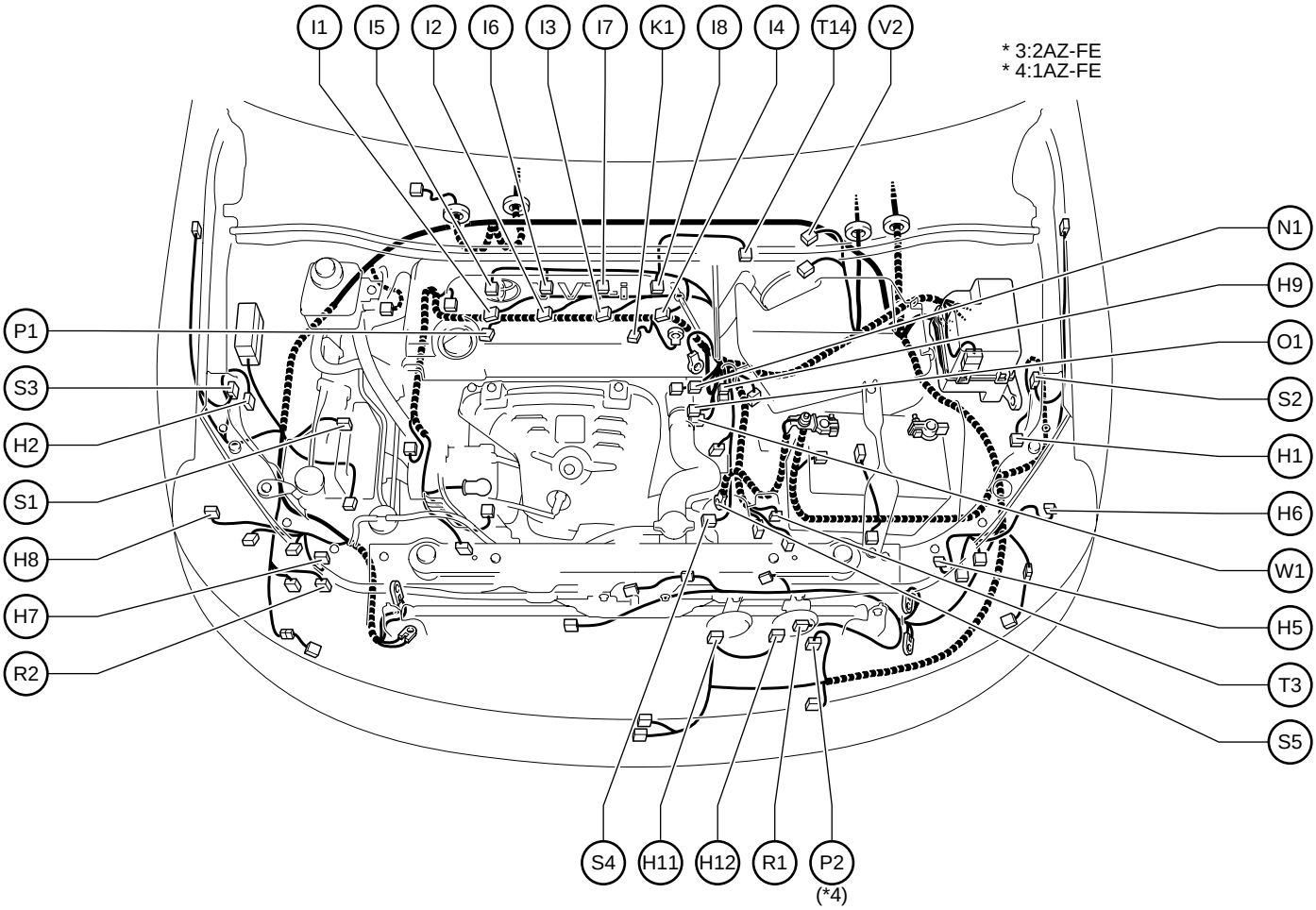
C 1 Camshaft Position Sensor
C 2 Camshaft Timing Oil Control Valve
C 3 Condenser Fan Motor
C 4 Counter Gear Speed Sensor
C 5 Crankshaft Position Sensor

E 1 ECT Solenoid
E 5 Engine Hood Courtesy SW

F 1 Front Clearance Light LH
F 2 Front Clearance Light RH
F 3 Front Fog Light LH
F 4 Front Fog Light RH
F 5 Front Side Turn Signal Light LH
F 6 Front Side Turn Signal Light RH
F 7 Front Turn Signal Light LH
F 8 Front Turn Signal Light RH
F 9 Front Washer Motor
F10 Front Wiper Motor

Position of Parts in Engine Compartment

[RHD : 1AZ–FE, 2AZ–FE]



H 1 Headlight Beam Level Control Actuator LH
H 2 Headlight Beam Level Control Actuator RH
H 5 Headlight LH (High)
H 6 Headlight LH (Low)
H 7 Headlight RH (High)
H 8 Headlight RH (Low)
H 9 Heated Oxygen Sensor (Bank 1 Sensor 1)
H11 Horn (High)
H12 Horn (Low)

I 1 Ignition Coil and Igniter No.1
I 2 Ignition Coil and Igniter No.2
I 3 Ignition Coil and Igniter No.3
I 4 Ignition Coil and Igniter No.4
I 5 Injector No.1
I 6 Injector No.2
I 7 Injector No.3
I 8 Injector No.4

K 1 Knock Sensor

N 1 Noise Filter

O 1 Oil Pressure SW

P 1 Power Steering Oil Pressure SW
P 2 Pressure SW

R 1 Radiator Fan Motor
R 2 Rear Washer Motor

S 1 Skid Control ECU with Actuator
S 2 Speed Sensor Front LH
S 3 Speed Sensor Front RH
S 4 Starter
S 5 Starter

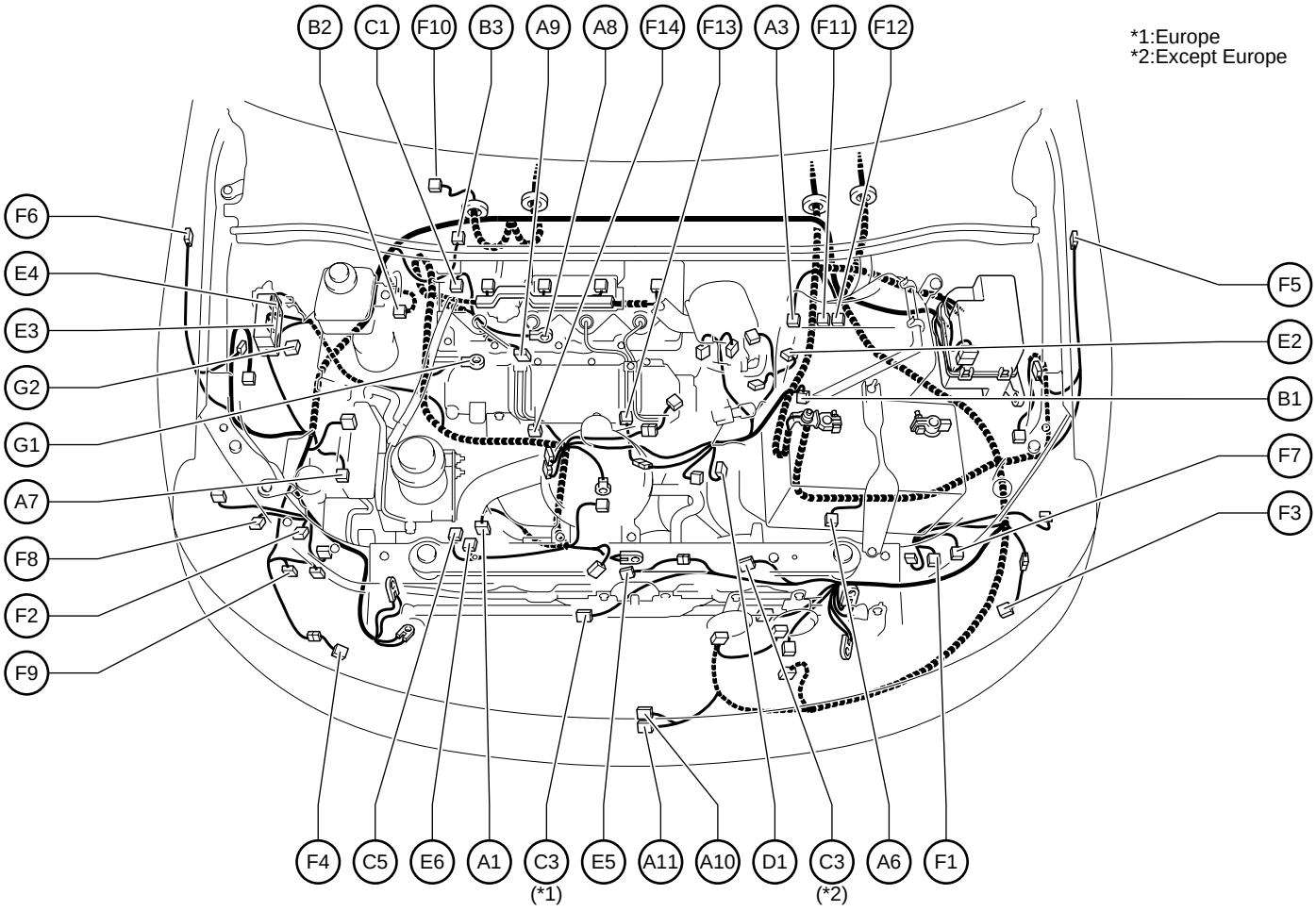
T 3 Turbine Speed Sensor
T14 Throttle Control Motor
Throttle Position Sensor

V 2 VSV (EVAP)

W 1 Water Temp. Sensor

Position of Parts in Engine Compartment

[RHD : 1CD–FTV]



A 1 A/C Lock Sensor
A/C Magnetic Clutch
A 3 Air Flow Meter
A 6 Airbag Sensor Front LH
A 7 Airbag Sensor Front RH
A 8 Alternator
A 9 Alternator
A 10 Ambient Temp. Sensor No.1
A 11 Ambient Temp. Sensor No.2

B 1 Back–Up Light SW
B 2 Brake Fluid Level Warning SW
B 3 Brake Vacuum Warning SW

C 1 Camshaft Position Sensor
C 3 Condenser Fan Motor
C 5 Crankshaft Position Sensor

D 1 Diesel Throttle Control Motor

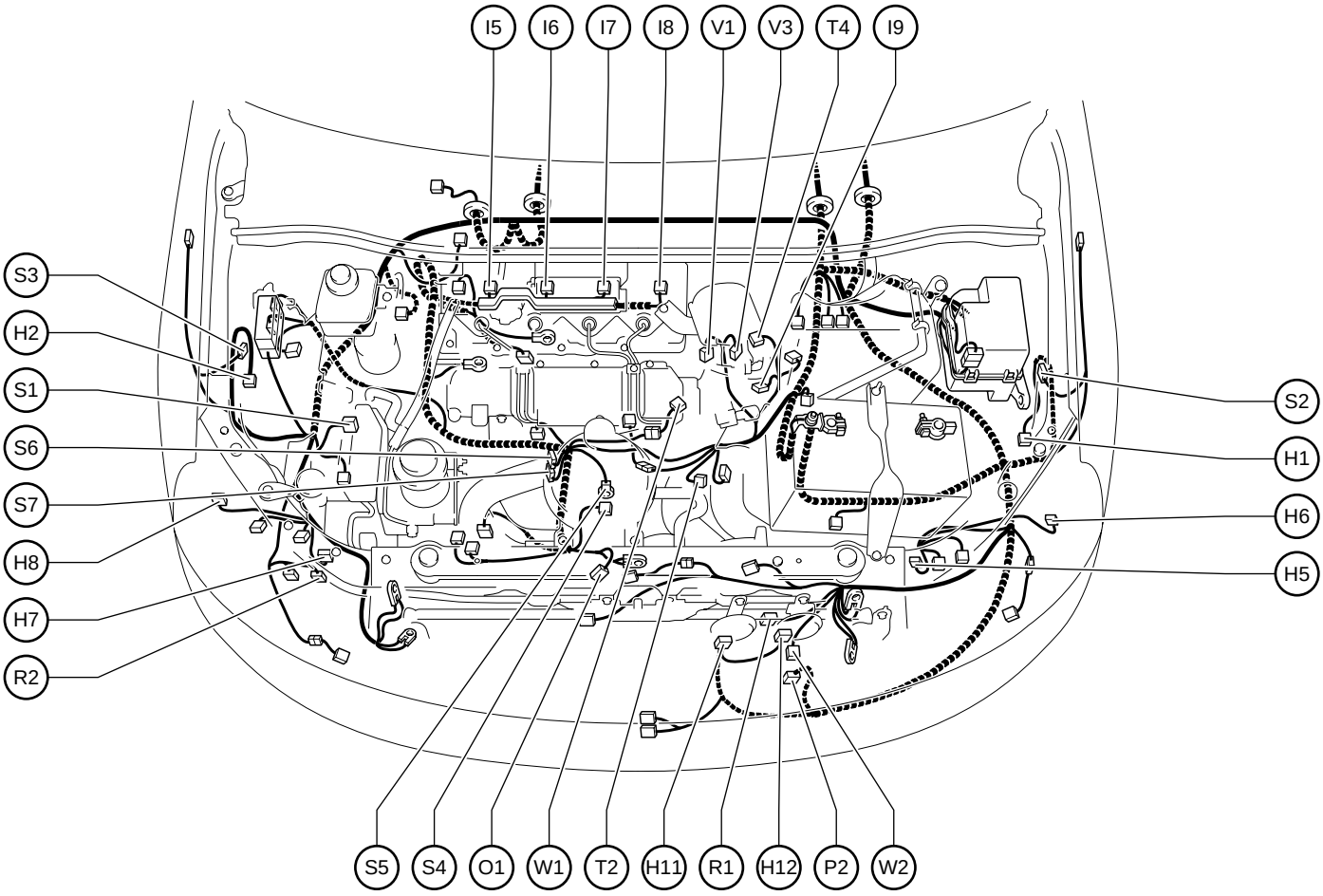
E 2 EGR Valve Control Motor
E 3 Electronic Driver Unit
E 4 Electronic Driver Unit
E 5 Engine Hood Courtesy SW
E 6 Engine Oil Level Sensor

F 1 Front Clearance Light LH
F 2 Front Clearance Light RH
F 3 Front Fog Light LH
F 4 Front Fog Light RH
F 5 Front Side Turn Signal Light LH
F 6 Front Side Turn Signal Light RH
F 7 Front Turn Signal Light LH
F 8 Front Turn Signal Light RH
F 9 Front Washer Motor
F 10 Front Wiper Motor
F 11 Fuel Filter Warning SW
F 12 Fuel Heater
F 13 Fuel Pressure Sensor
F 14 Fuel Temp. Sensor

G 1 Glow Plug
G 2 Glow Plug Relay

Position of Parts in Engine Compartment

[RHD : 1CD–FTV]



H 1 Headlight Beam Level Control Actuator LH
H 2 Headlight Beam Level Control Actuator RH
H 5 Headlight LH (High)
H 6 Headlight LH (Low)
H 7 Headlight RH (High)
H 8 Headlight RH (Low)
H11 Horn (High)
H12 Horn (Low)

I 5 Injector No.1
I 6 Injector No.2
I 7 Injector No.3
I 8 Injector No.4
I 9 Intake Air Temp. Sensor

O 1 Oil Pressure SW

P 2 Pressure SW

R 1 Radiator Fan Motor
R 2 Rear Washer Motor

S 1 Skid Control ECU with Actuator
S 2 Speed Sensor Front LH
S 3 Speed Sensor Front RH
S 4 Starter
S 5 Starter
S 6 Suction Control Valve No.1
S 7 Suction Control Valve No.2

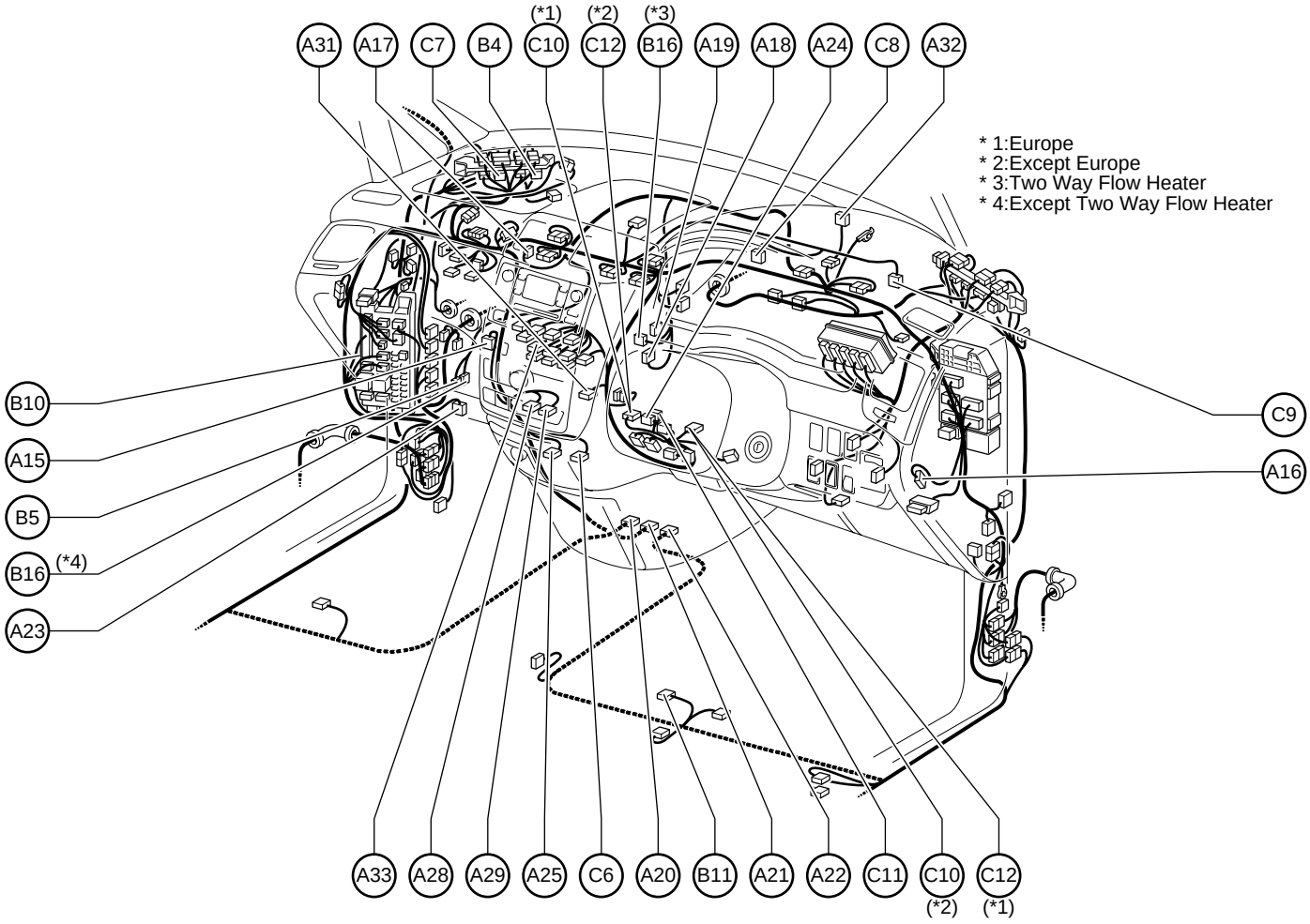
T 2 Throttle Position SW
T 4 Turbo Pressure Sensor

V 1 VRV (EGR)
V 3 VSV (Turbo Pressure Sensor)

W 1 Water Temp. Sensor
W 2 Water Temp. SW

Position of Parts in Instrument Panel

[RHD]



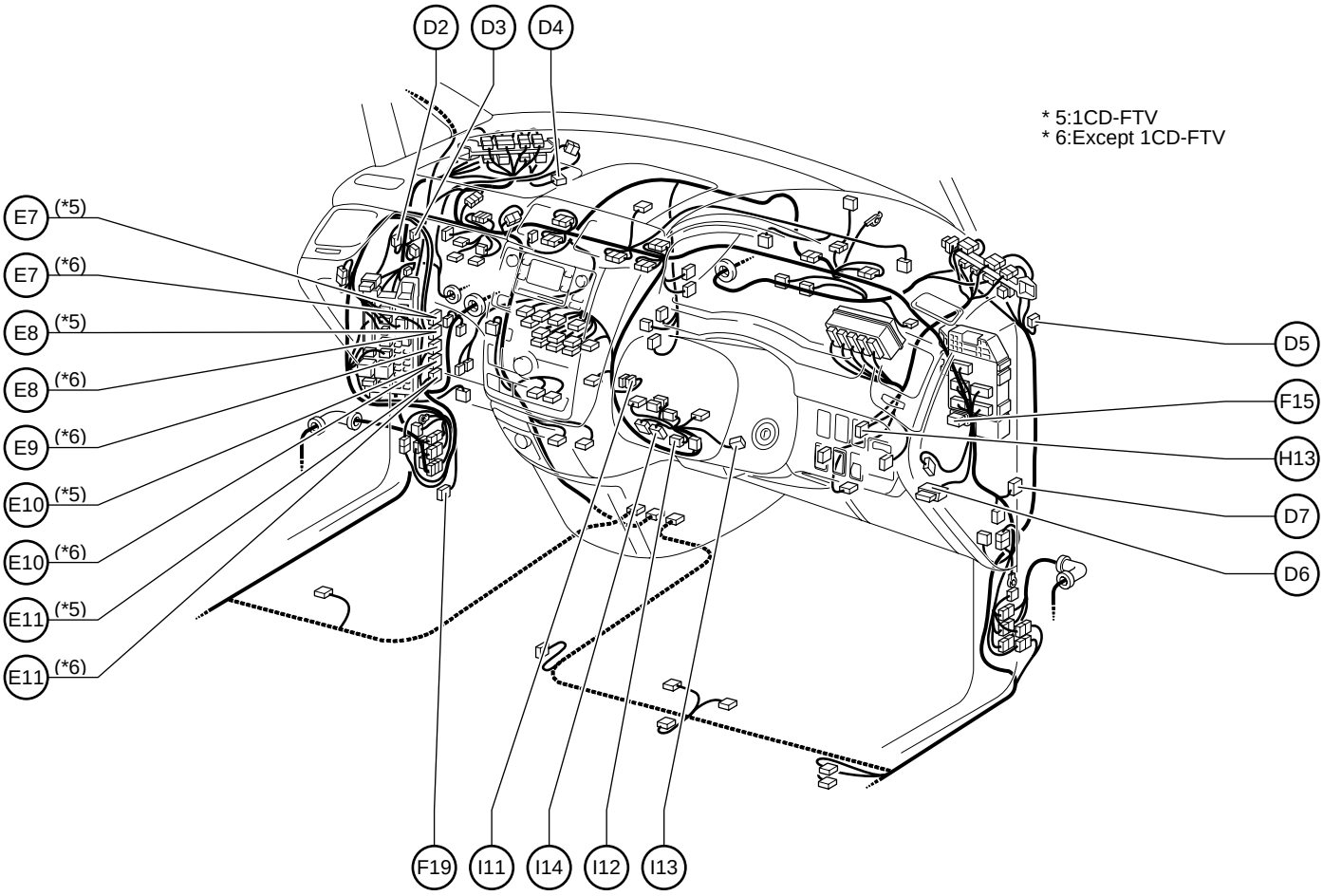
A15 A/C Evaporator Temp. Sensor
A16 Accelerator Pedal Position Sensor
A17 Air Inlet Control Servo Motor
A18 Air Mix Control Servo Motor
A19 Air Vent Mode Control Servo Motor
A20 Airbag Sensor Assembly
A21 Airbag Sensor Assembly
A22 Airbag Sensor Assembly
A23 Airbag Squib (Front Passenger Airbag Assembly)
A24 Airbag Squib (Steering Wheel Pad)
A25 Ashtray Illumination
A28 A/C Control Assembly
A29 A/C Control Assembly
A31 A/C Room Temp. Sensor
A32 A/C Solar Sensor
A33 Antenna Amplifier

B 4 Back–Up Light Relay
B 5 Blower Motor
B10 Body ECU
B11 Buckle SW RH
B16 Blower Motor Controller

C 6 Cigarette Lighter
C 7 Circuit Opening Relay
C 8 Combination Meter
C 9 Combination Meter
C10 Combination SW
C11 Combination SW
C12 Combination SW

Position of Parts in Instrument Panel

[RHD]



D 2 Diode
D 3 Diode
D 4 Diode (Fan)
D 5 Diode
D 6 DLC3
D 7 Double Door Lock ECU

E 7 Engine and ECT ECU (A/T)
Engine ECU (M/T)
E 8 Engine and ECT ECU (A/T)
Engine ECU (M/T)
E 9 Engine and ECT ECU (A/T)
Engine ECU (M/T)
E 10 Engine and ECT ECU (A/T)
Engine ECU (M/T)
E 11 Engine and ECT ECU (A/T)
Engine ECU (M/T)

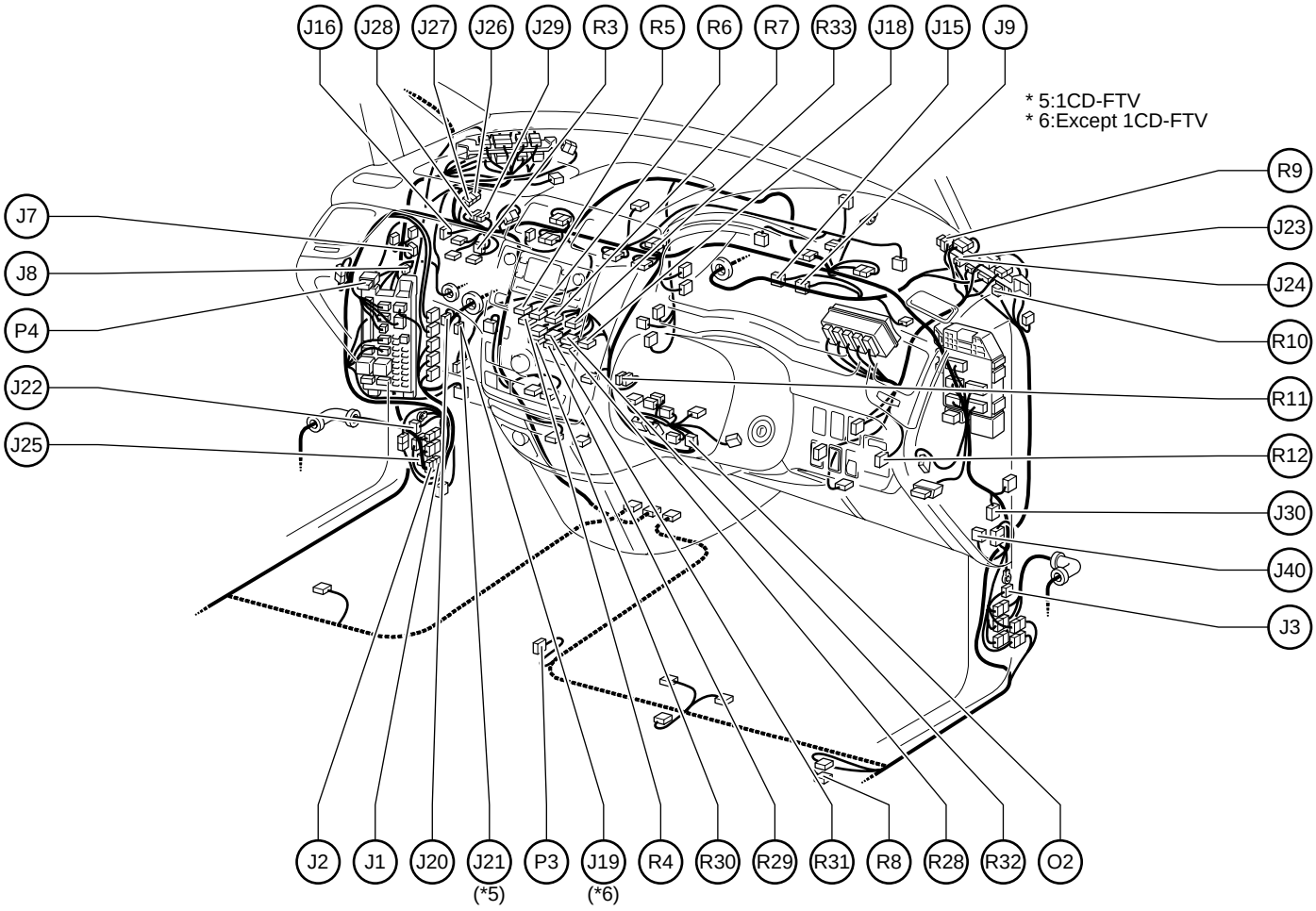
F 15 Front Fog Light Relay
F 19 Fuse Holder

H13 Headlight Beam Level Control SW

I 11 Idle–Up SW
I 12 Ignition Key Cylinder Light
I 13 Ignition Key Cylinder Light
Transponder Key Amplifier
I 14 Ignition SW

Position of Parts in Instrument Panel

[RHD]



J 1 Junction Connector
J 2 Junction Connector
J 3 Junction Connector
J 7 Junction Connector
J 8 Junction Connector
J 9 Junction Connector
J 15 Junction Connector
J 16 Junction Connector
J 18 Junction Connector
J 19 Junction Connector
J 20 Junction Connector
J 21 Junction Connector
J 22 Junction Connector
J 23 Junction Connector
J 24 Junction Connector
J 25 Junction Connector
J 26 Junction Connector
J 27 Junction Connector
J 28 Junction Connector
J 29 Junction Connector
J 30 Junction Connector
J 40 Junction Connector

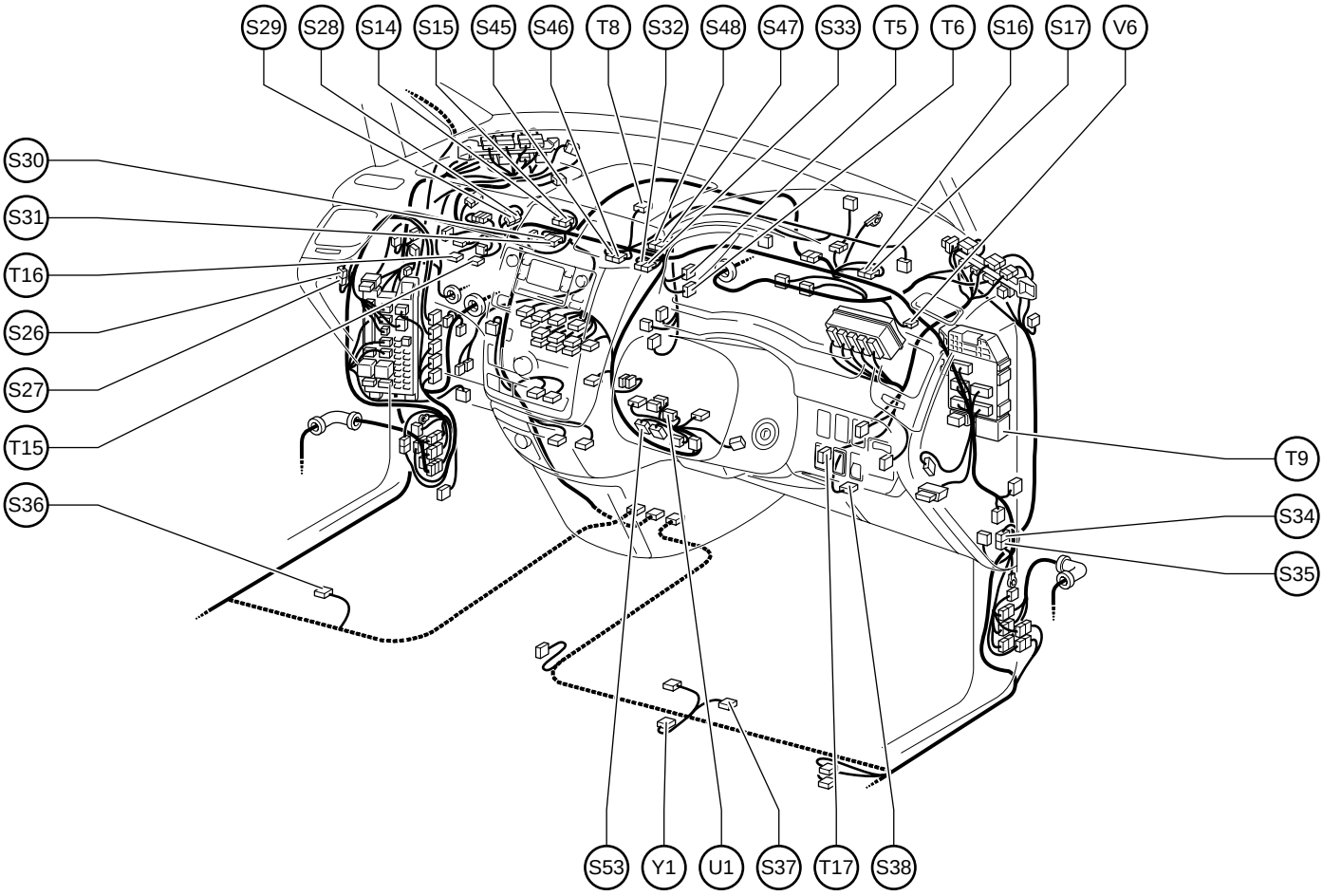
O 2 O/D Main SW

P 3 Parking Brake SW
P 4 Power Point Relay

R 3 Radar Sensor
R 4 Radio and Player with Display
R 5 Radio and Player with Display
R 6 Radio and Player
Radio and Player with Display
R 7 Radio and Player
Radio and Player with Display
R 8 Rear Heater Blower Motor
R 9 Rear Heater Relay
R10 Rear Heater Relay (HI)
R11 Rear Heater SW
R12 Remote Control Mirror SW
R28 Radio and Player with Display
R29 Radio and Player with Display
R30 Radio and Player with Display
R31 Radio and Player with Display
R32 Radio and Player with Display
R33 Radio and Player with Display

Position of Parts in Instrument Panel

[RHD]



S14 Short Connector
S15 Short Connector
S16 Short Connector
S17 Short Connector
S26 Short Connector
S27 Short Connector
S28 Short Connector
S29 Short Connector
S30 Short Connector
S31 Short Connector
S32 Short Connector
S33 Short Connector
S34 Short Connector
S35 Short Connector
S36 Side Airbag Squib LH
S37 Side Airbag Squib RH
S38 Stop Light SW
S45 Short Connector
S46 Short Connector
S47 Short Connector
S48 Short Connector
S53 Steering Sensor

T 5 Theft Deterrent ECU
T 6 Theft Deterrent ECU
T 8 Transponder Key Computer
T 9 Turn Signal Flasher Relay
T15 Television Camera ECU
T16 Television Camera ECU
T17 TRC OFF SW

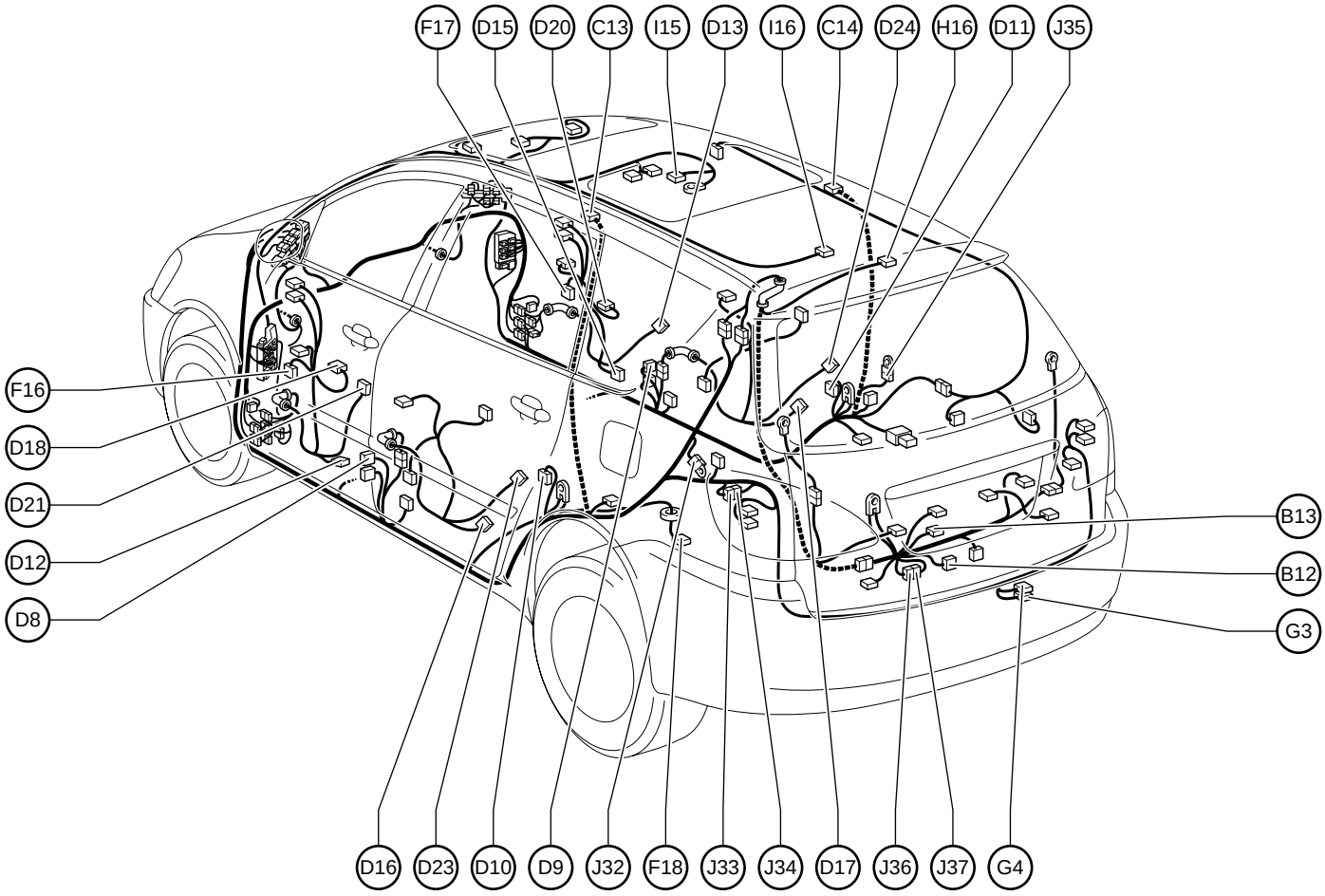
U 1 Unlock Warning SW

V 6 VSC Warning Buzzer

Y 1 Yaw Rate Sensor

Position of Parts in Body

[RHD]



B12 Back Door Courtesy SW
Back Door Lock Motor
B13 Back Door Opener SW

C13 Curtain Shield Airbag Squib LH
C14 Curtain Shield Airbag Squib RH

D 8 Door Courtesy SW Front LH
D 9 Door Courtesy SW Front RH
D10 Door Courtesy SW Rear LH
D11 Door Courtesy SW Rear RH
D12 Door Key Lock and Unlock SW Front LH
Door Lock Motor Front LH
Door Unlock Detection SW Front LH
Double Door Lock Motor Front LH
Double Lock Position SW Front LH
D13 Door Key Lock and Unlock SW Front RH
Door Lock Motor Front RH
D15 Door Key Lock and Unlock SW Front RH
Door Lock Motor Front RH
Door Unlock Detection SW Front RH
Double Door Lock Motor Front RH
Double Lock Position SW Front RH
D16 Door Key Lock and Unlock SW Rear LH
Door Lock Motor Rear LH
Door Unlock Detection SW Rear LH
Double Door Lock Motor Rear LH
Double Lock Position SW Rear LH
D17 Door Key Lock and Unlock SW Rear RH
Door Lock Motor Rear RH
Door Unlock Detection SW Rear RH
Double Door Lock Motor Rear RH
Double Lock Position SW Rear RH
D18 Door Lock Control SW Front LH
Power Window SW Front LH
D19 Door Lock Control SW Front RH
Power Window SW Front RH
D20 Door Lock Control SW
Power Window Master SW
D21 Door Lock Motor Front LH
D22 Door Lock Motor Front RH
D23 Door Lock Motor Rear LH
D24 Door Lock Motor Rear RH

F 16 Front Door Speaker LH
F 17 Front Door Speaker RH
F 18 Fuel Pump
Fuel Sender

G 3 Glass Breakage Sensor
G 4 Glass Breakage Sensor Microphone

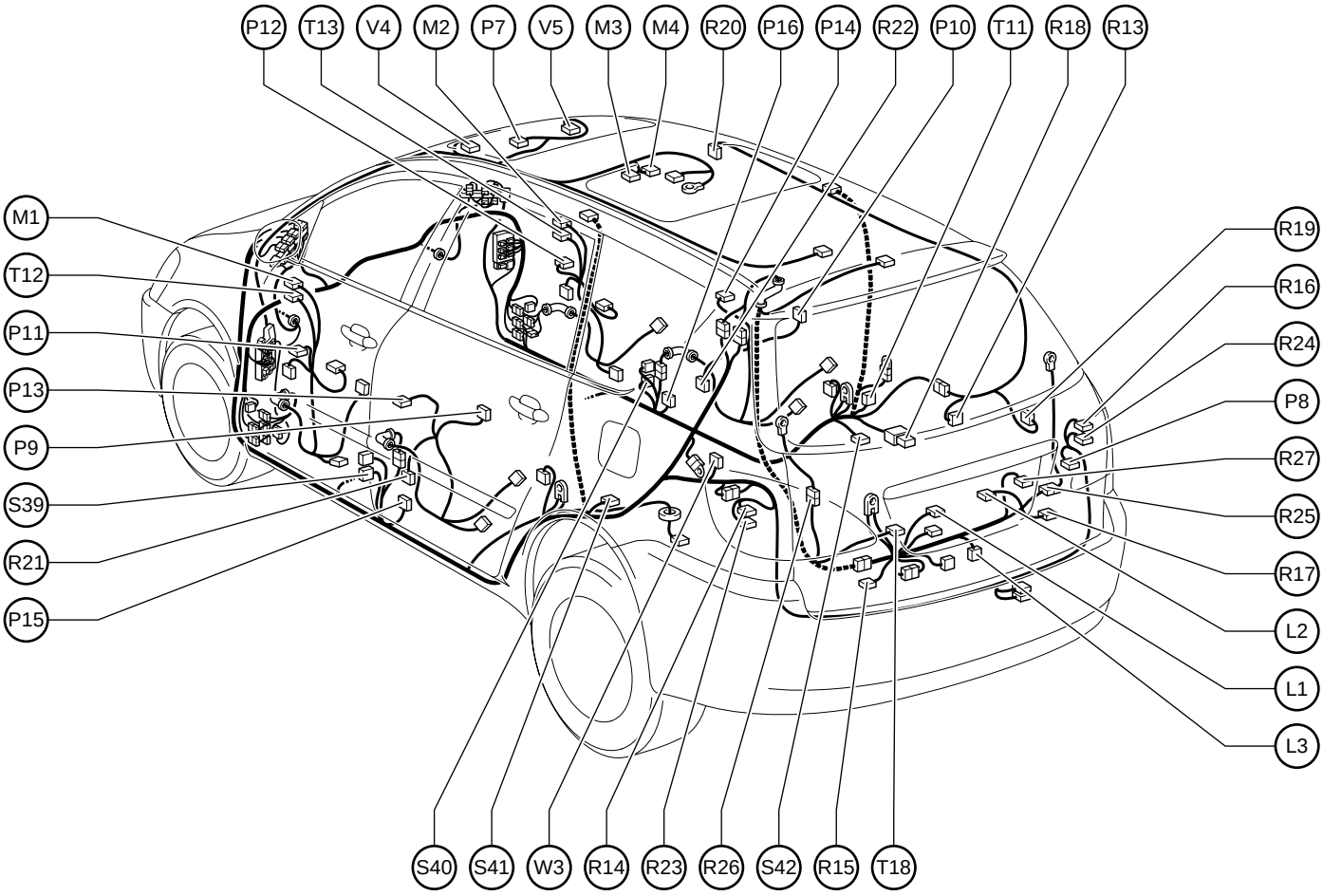
H16 High Mounted Stop Light

I 15 Interior Light (Front)
I 16 Interior Light (Rear)

J 32 Junction Connector
J 33 Junction Connector
J 34 Junction Connector
J 35 Junction Connector
J 36 Junction Connector
J 37 Junction Connector

Position of Parts in Body

[RHD]



L 1 License Plate Light LH
L 2 License Plate Light RH
L 3 Luggage Compartment Light

M 1 Mirror Heater LH
Remote Control Mirror LH
M 2 Mirror Heater RH
Remote Control Mirror RH
M 3 Moon Roof Control Relay
Moon Roof Control SW
M 4 Moon Roof Limit SW
Moon Roof Motor

P 7 Personal Light
P 8 Power Outlet
P 9 Power Window Control SW Rear LH
P10 Power Window Control SW Rear RH
P11 Power Window Motor Front LH
P12 Power Window Motor Front RH
P13 Power Window Motor Rear LH
P14 Power Window Motor Rear RH
P15 Pretensioner LH
P16 Pretensioner RH

R13 Rear Blower Motor
R14 Rear Combination Light LH
R15 Rear Combination Light LH
R16 Rear Combination Light RH
R17 Rear Combination Light RH
R18 Rear Cooler Relay
R19 Rear Cooler Resistor
R20 Rear Cooler SW
R21 Rear Door Speaker LH
R22 Rear Door Speaker RH
R23 Rear Turn Signal Light LH
R24 Rear Turn Signal Light RH
R25 Rear Window Defogger
R26 Rear Window Defogger
R27 Rear Wiper Motor
Rear Wiper Relay

S39 Side Airbag Sensor LH
S40 Side Airbag Sensor RH
S41 Speed Sensor Rear LH
S42 Speed Sensor Rear RH

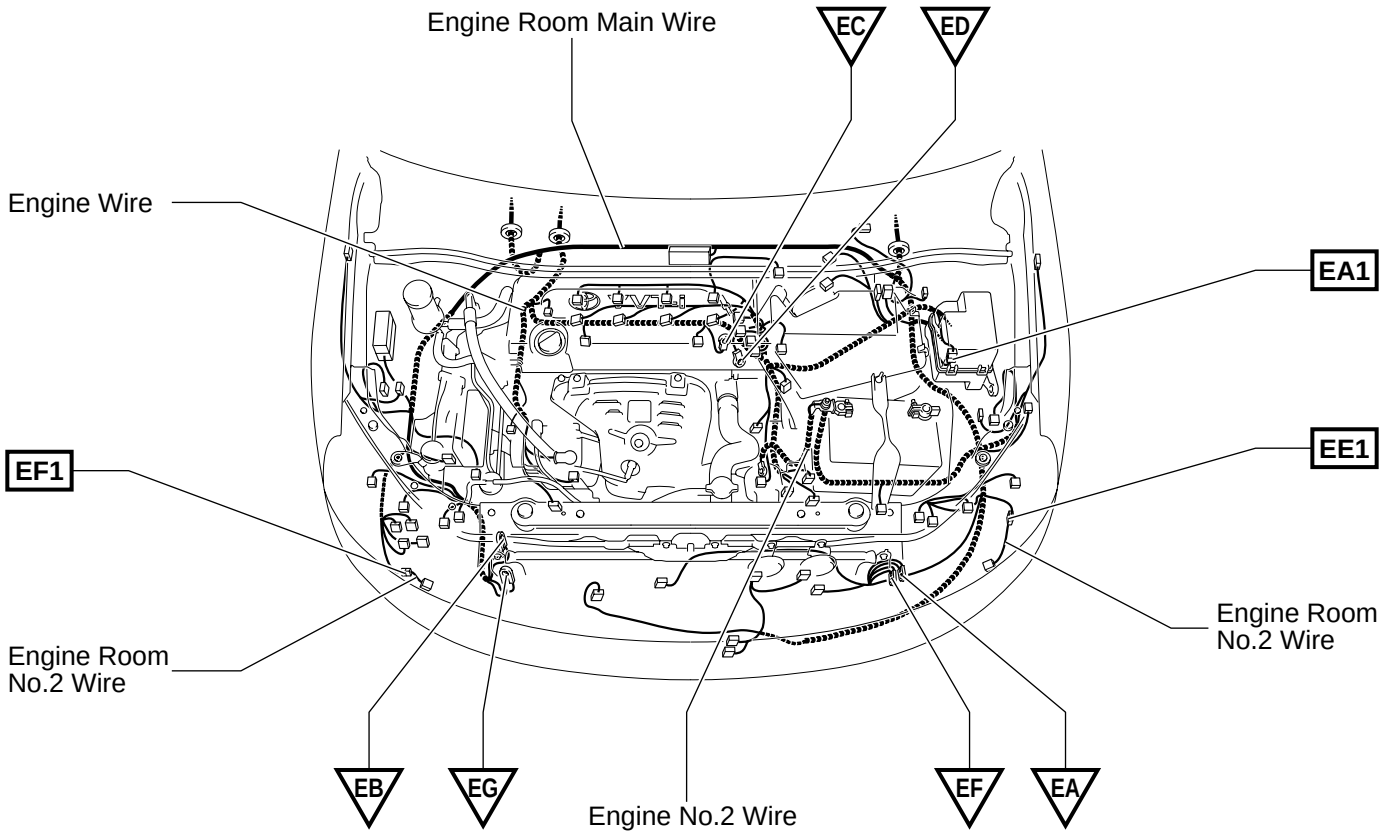
T 11 Theft Deterrent Siren
T 12 Tweeter LH
T 13 Tweeter RH
T 18 Television Camera

V 4 Vanity Light LH
V 5 Vanity Light RH

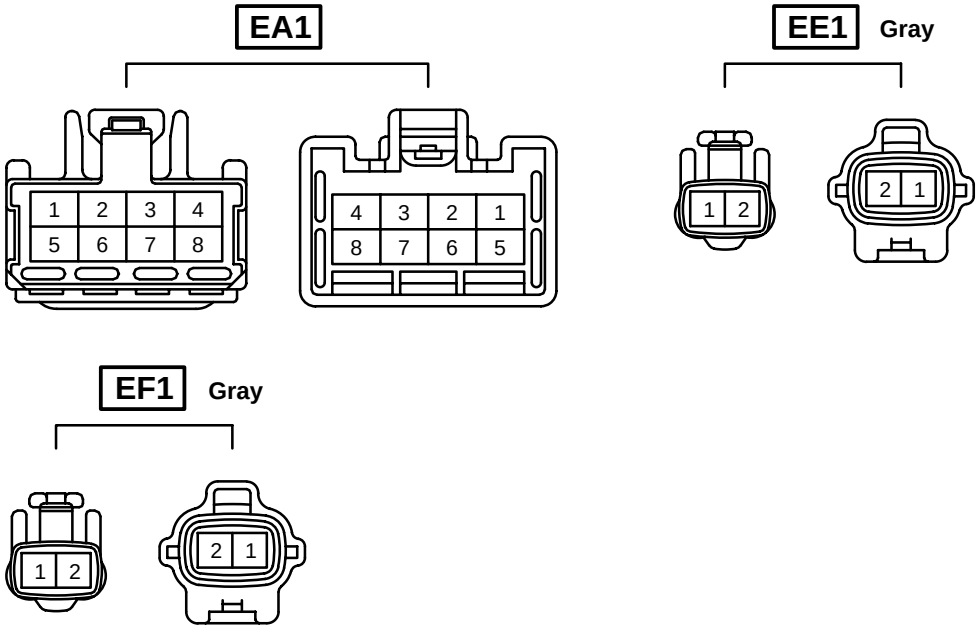
W 3 Wireless Door Lock Control Receiver

▭ : Location of Connector Joining Wire Harness and Wire Harness
▽ : Location of Ground Points

[LHD : 1AZ–FE]



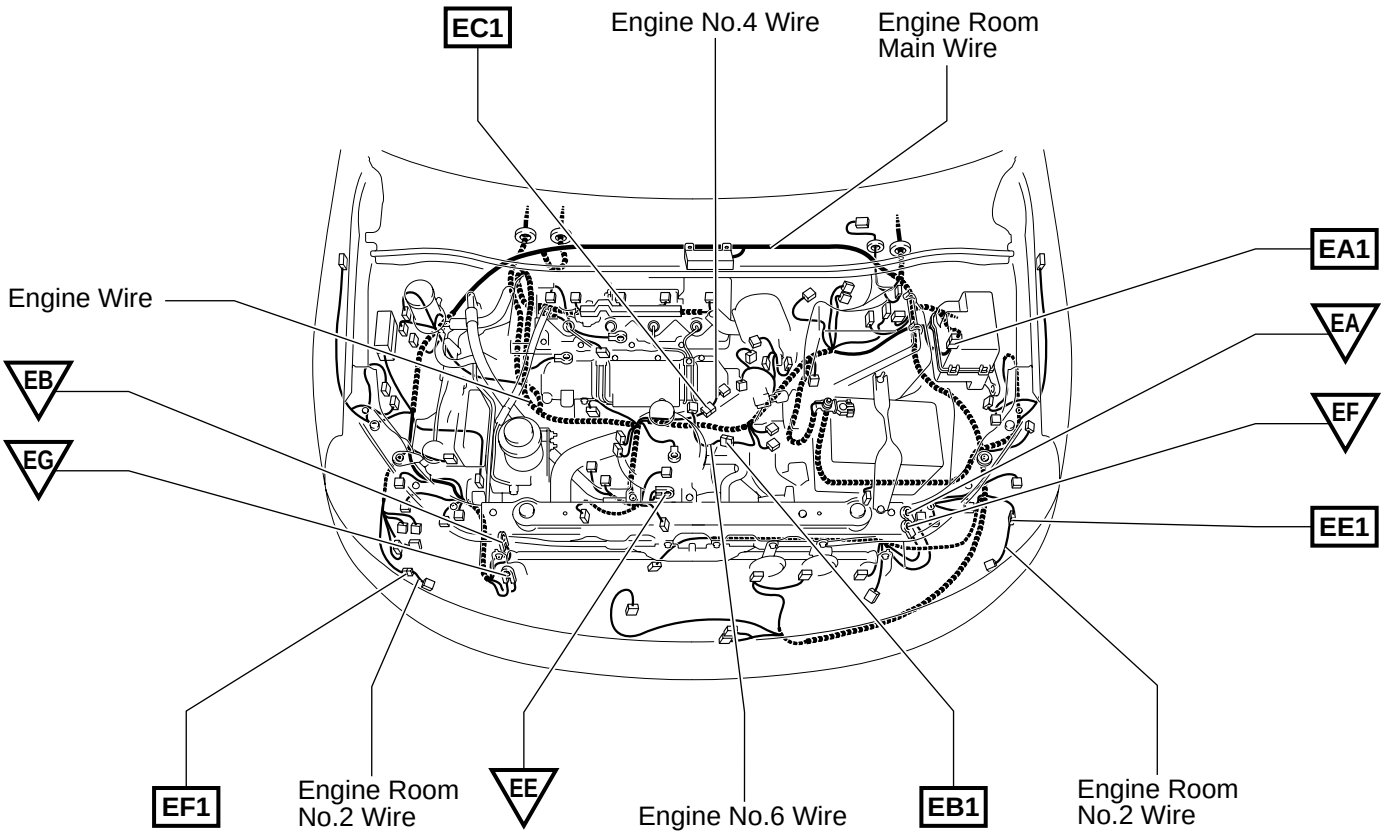
Connector Joining Wire Harness and Wire Harness



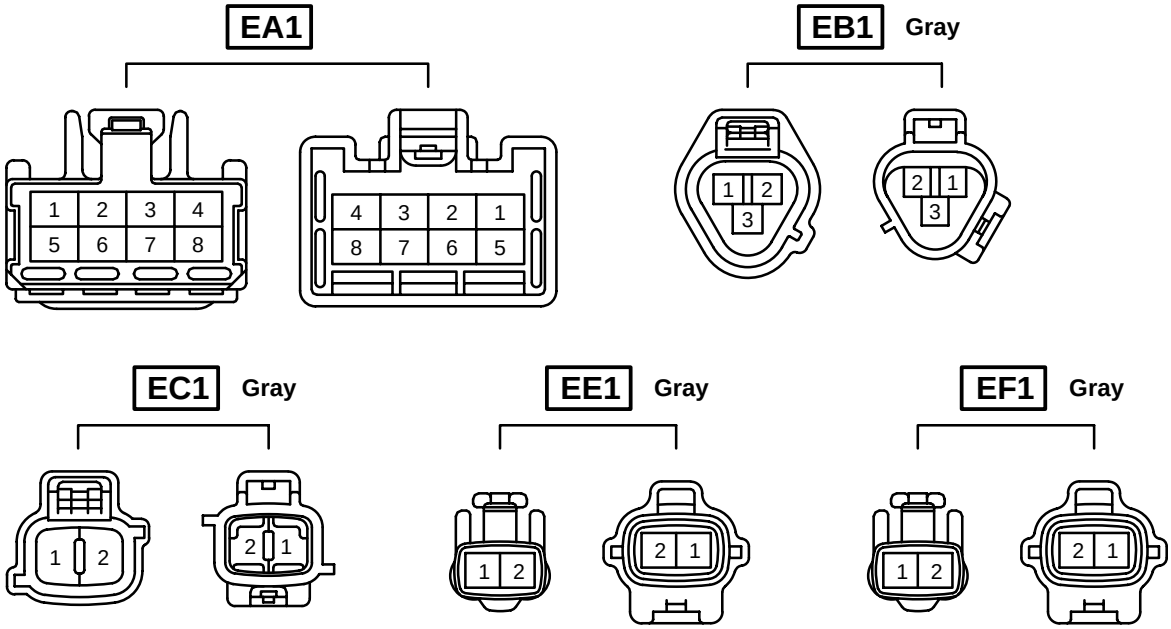
Code	Joining Wire Harness and Wire Harness (Connector Location)
EA1	Engine Wire and Engine Room Main Wire (Near the Engine Room R/B)
EE1	Engine Room No.2 Wire and Engine Room Main Wire (Under the Headlight LH)
EF1	Engine Room No.2 Wire and Engine Room Main Wire (Under the Headlight RH)

▭ : Location of Connector Joining Wire Harness and Wire Harness
▽ : Location of Ground Points

[LHD : 1CD–FTV]



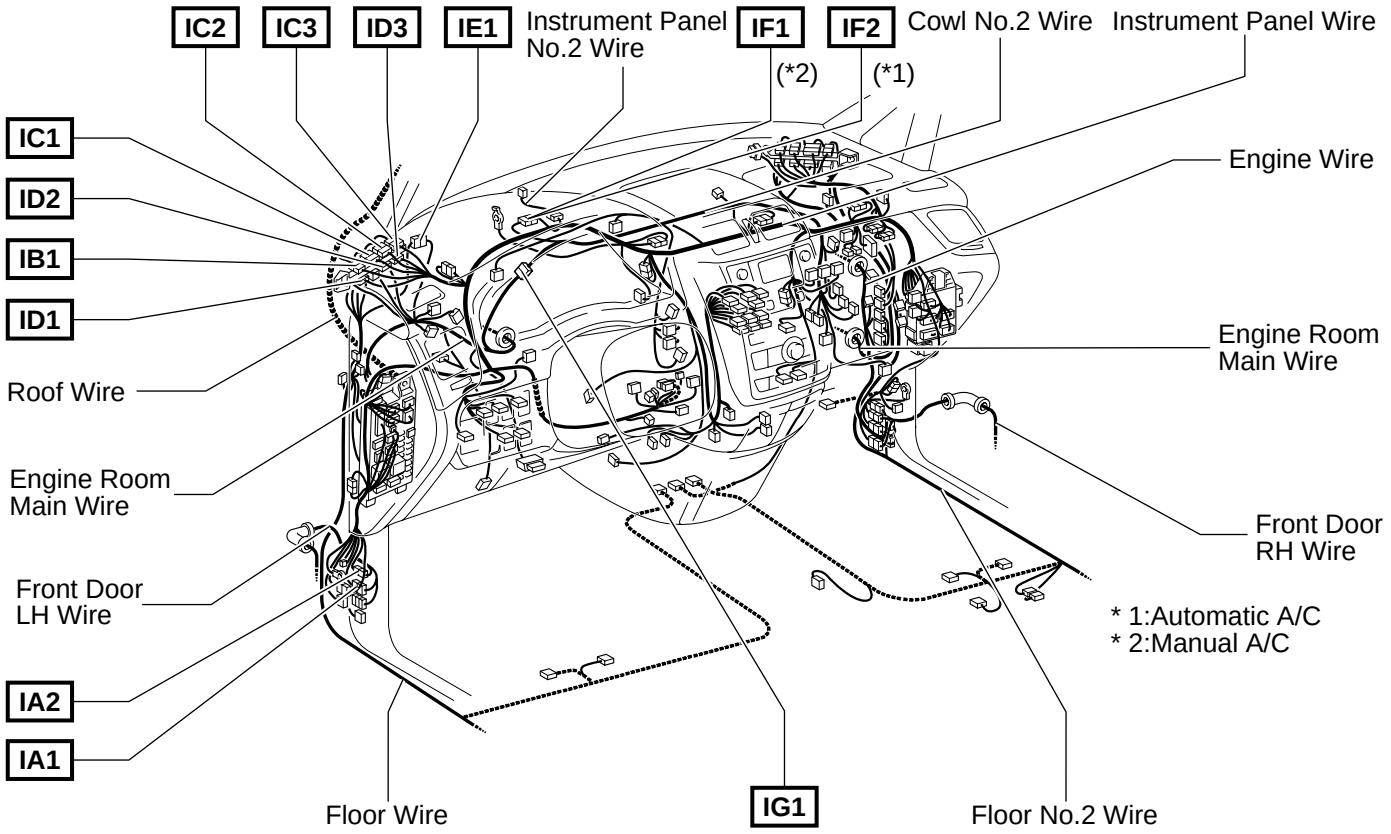
Connector Joining Wire Harness and Wire Harness



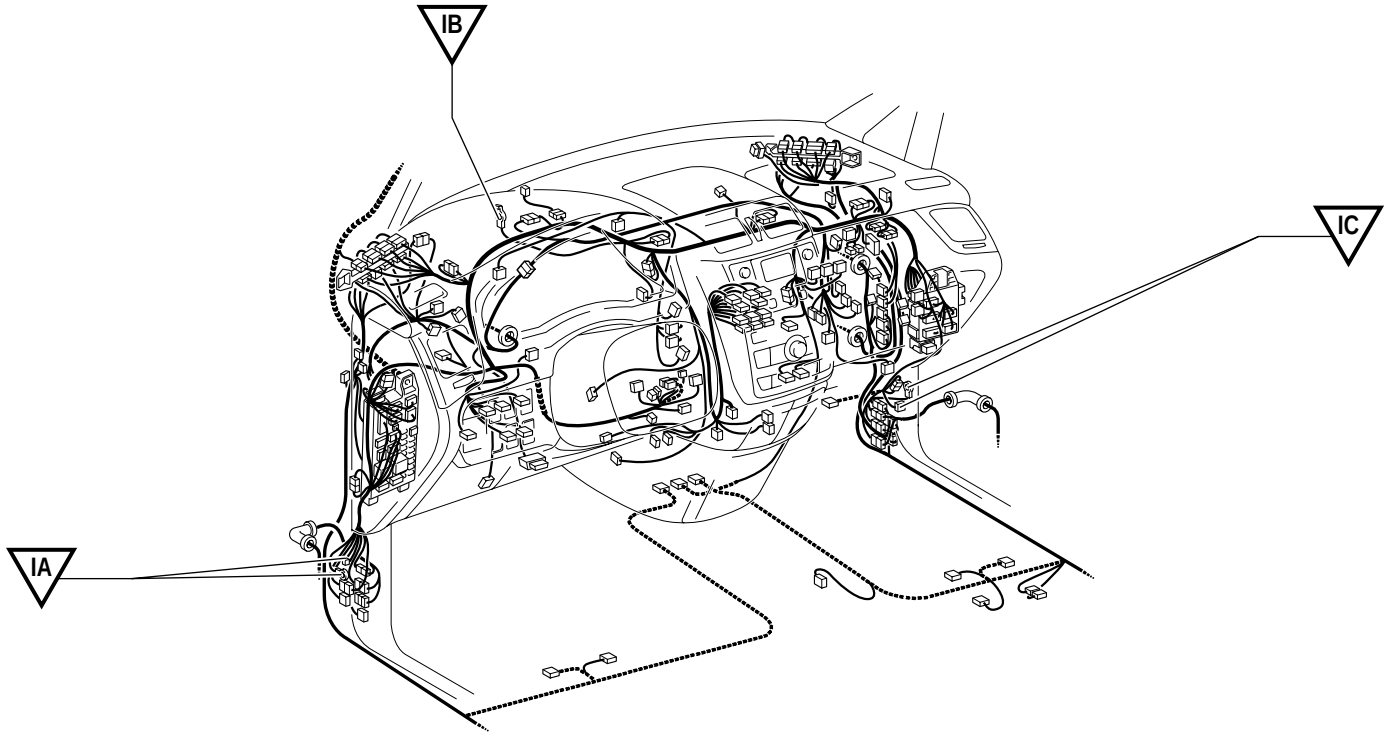
Code	Joining Wire Harness and Wire Harness (Connector Location)
EA1	Engine Wire and Engine Room Main Wire (Near the Engine Room R/B)
EB1	Engine Wire and Engine No.6 Wire (Near the Starter Motor)
EC1	Engine Wire and Engine No.4 Wire (Near the Starter Motor)
EE1	Engine Room No.2 Wire and Engine Room Main Wire (Under the Headlight LH)
EF1	Engine Room No.2 Wire and Engine Room Main Wire (Under the Headlight RH)

▭ : Location of Connector Joining Wire Harness and Wire Harness

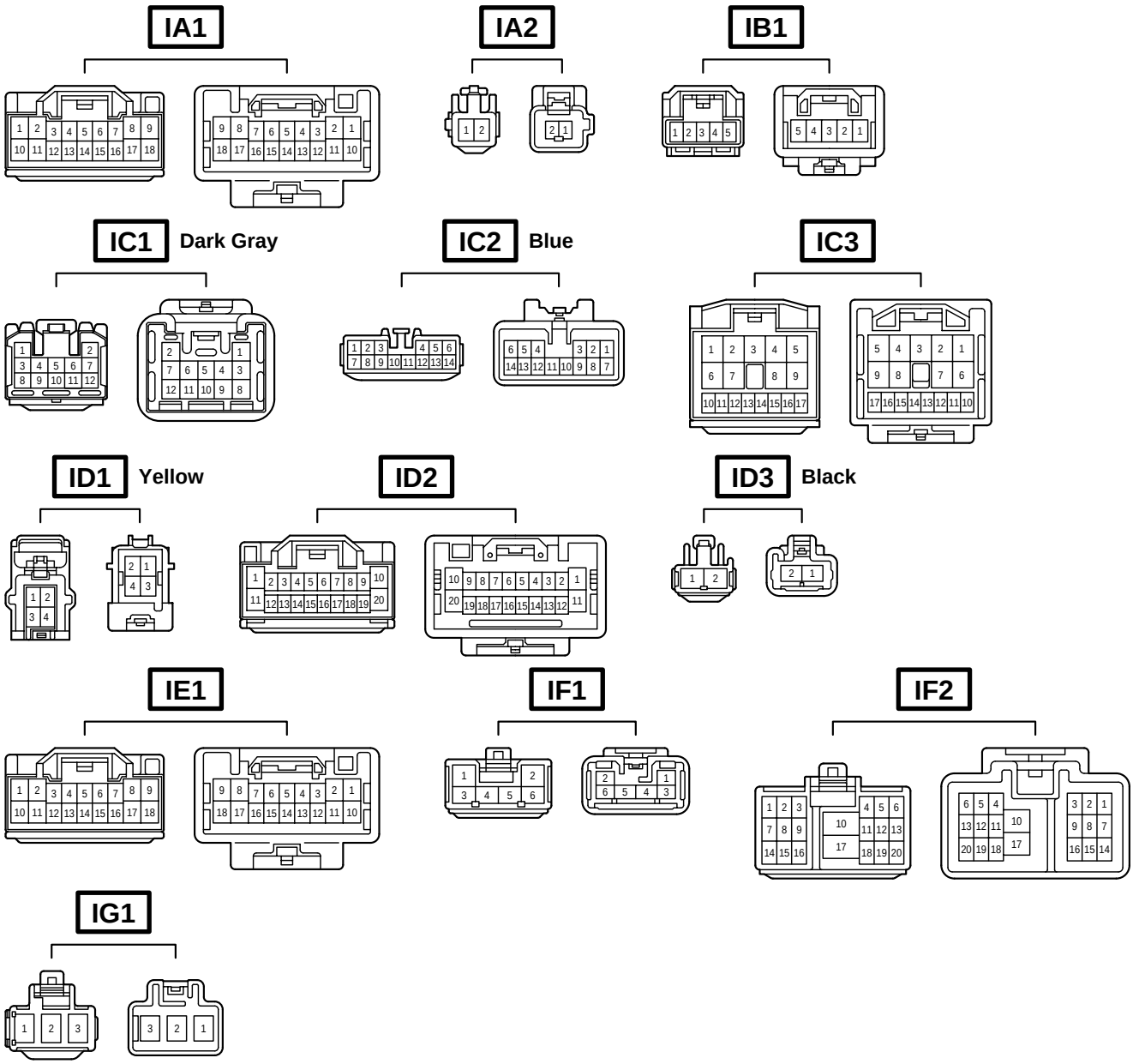
[LHD]



▽ : Location of Ground Points



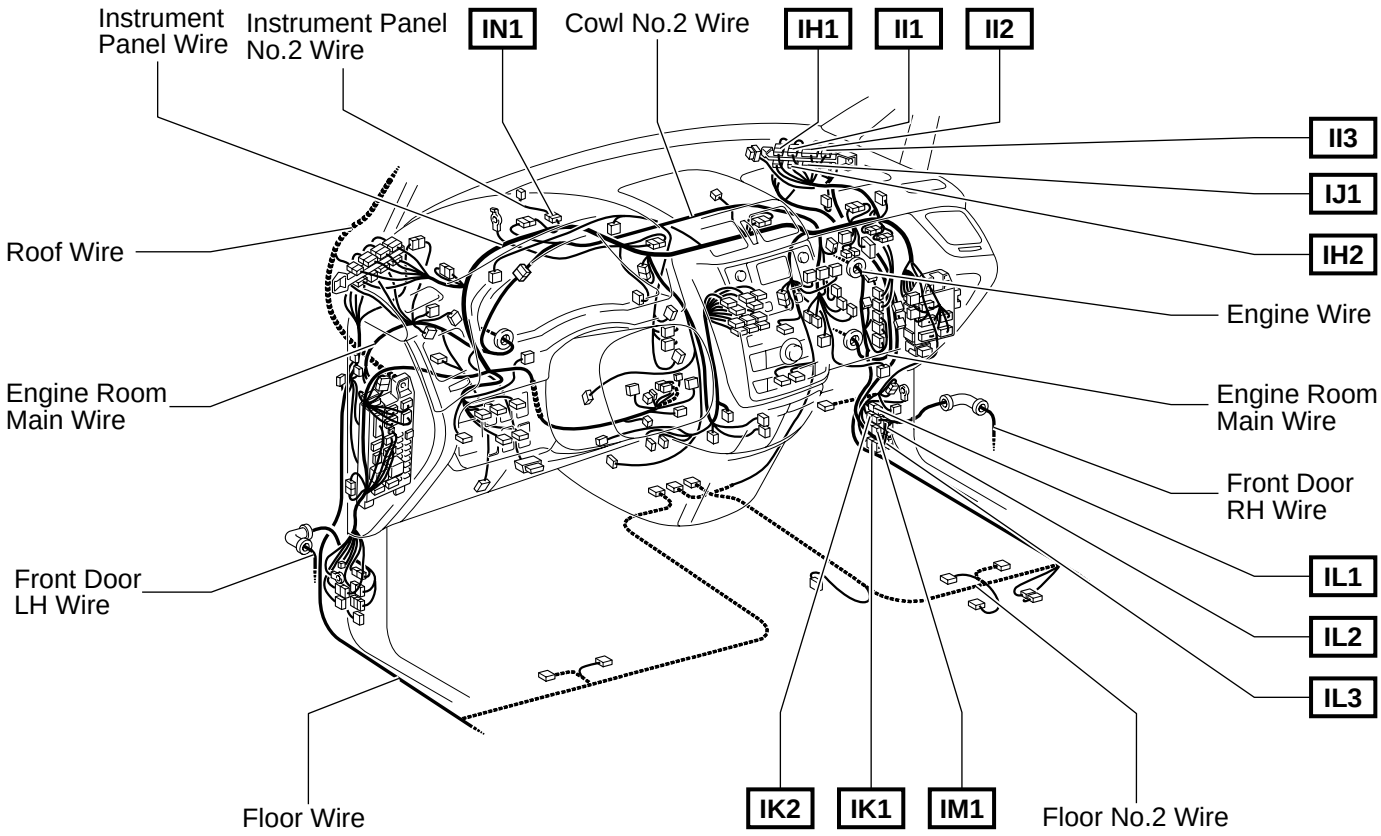
Connector Joining Wire Harness and Wire Harness



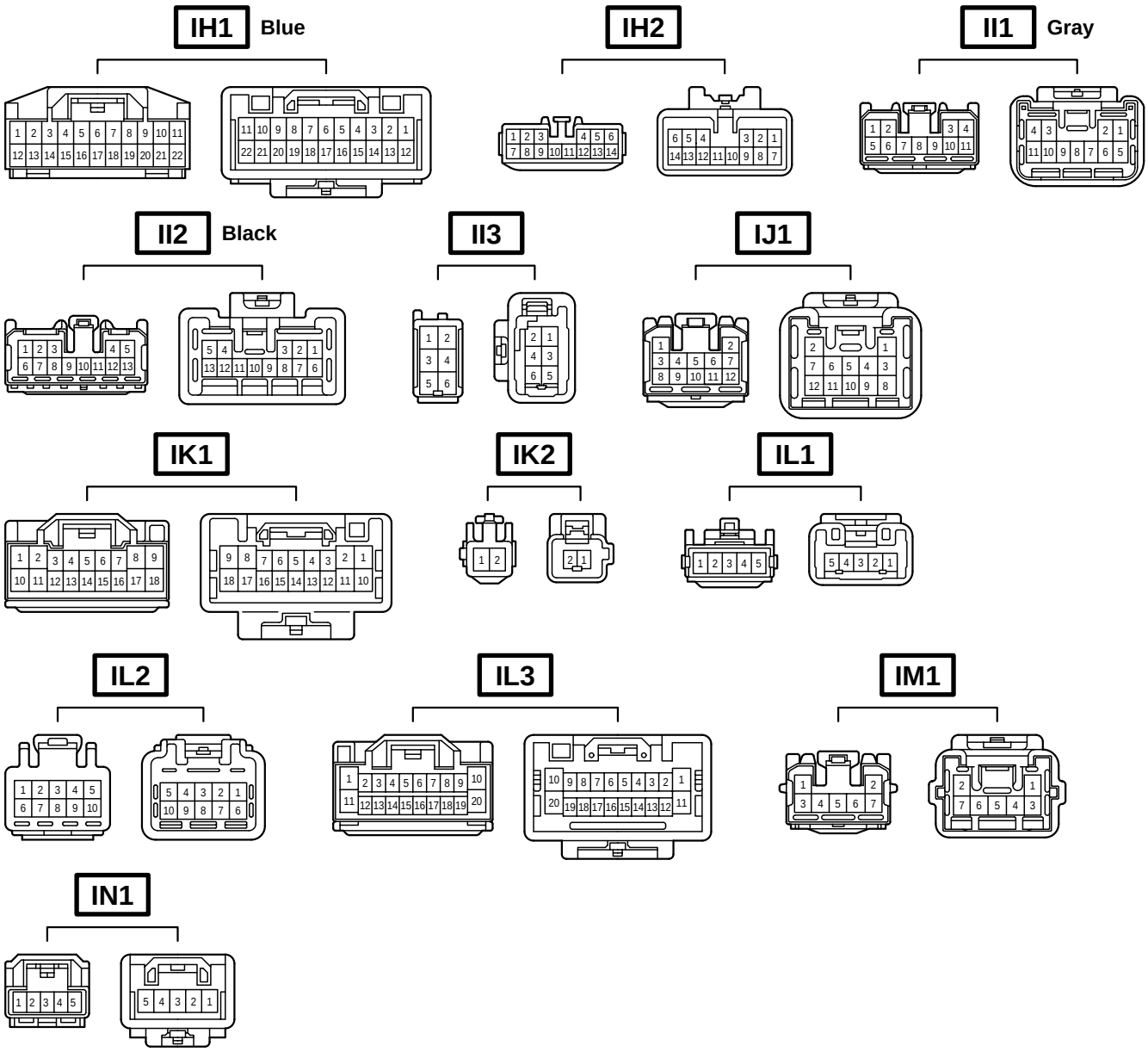
Code	Joining Wire Harness and Wire Harness (Connector Location)
IA1	Front Door LH Wire and Instrument Panel Wire (Left Kick Panel)
IA2	
IB1	Instrument Panel Wire and Roof Wire (Upper Part of Front Body Pillar LH)
IC1	Instrument Panel Wire and Floor Wire (Upper Part of Front Body Pillar LH)
IC2	
IC3	
ID1	Instrument Panel Wire and Engine Room Main Wire (Upper Part of Front Body Pillar LH)
ID2	
ID3	
IE1	Engine Room Main Wire and Floor Wire (Upper Part of Front Body LH)
IF1	Instrument Panel Wire and Cowl No.2 Wire (Behind the Combination Meter)
IF2	
IG1	Cowl No.2 Wire and Engine Room Main Wire (Behind the Combination Meter)

▭ : Location of Connector Joining Wire Harness and Wire Harness

[LHD]



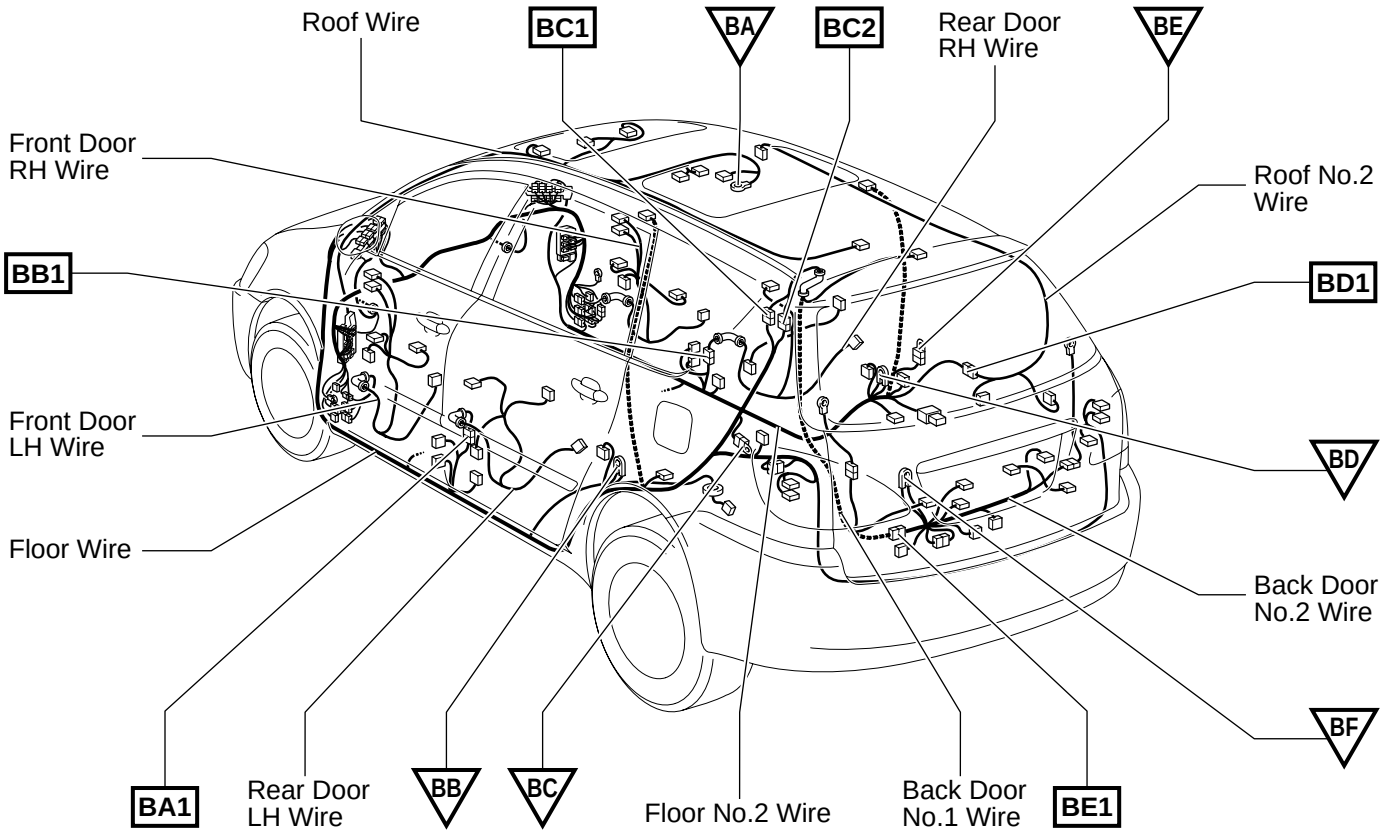
Connector Joining Wire Harness and Wire Harness



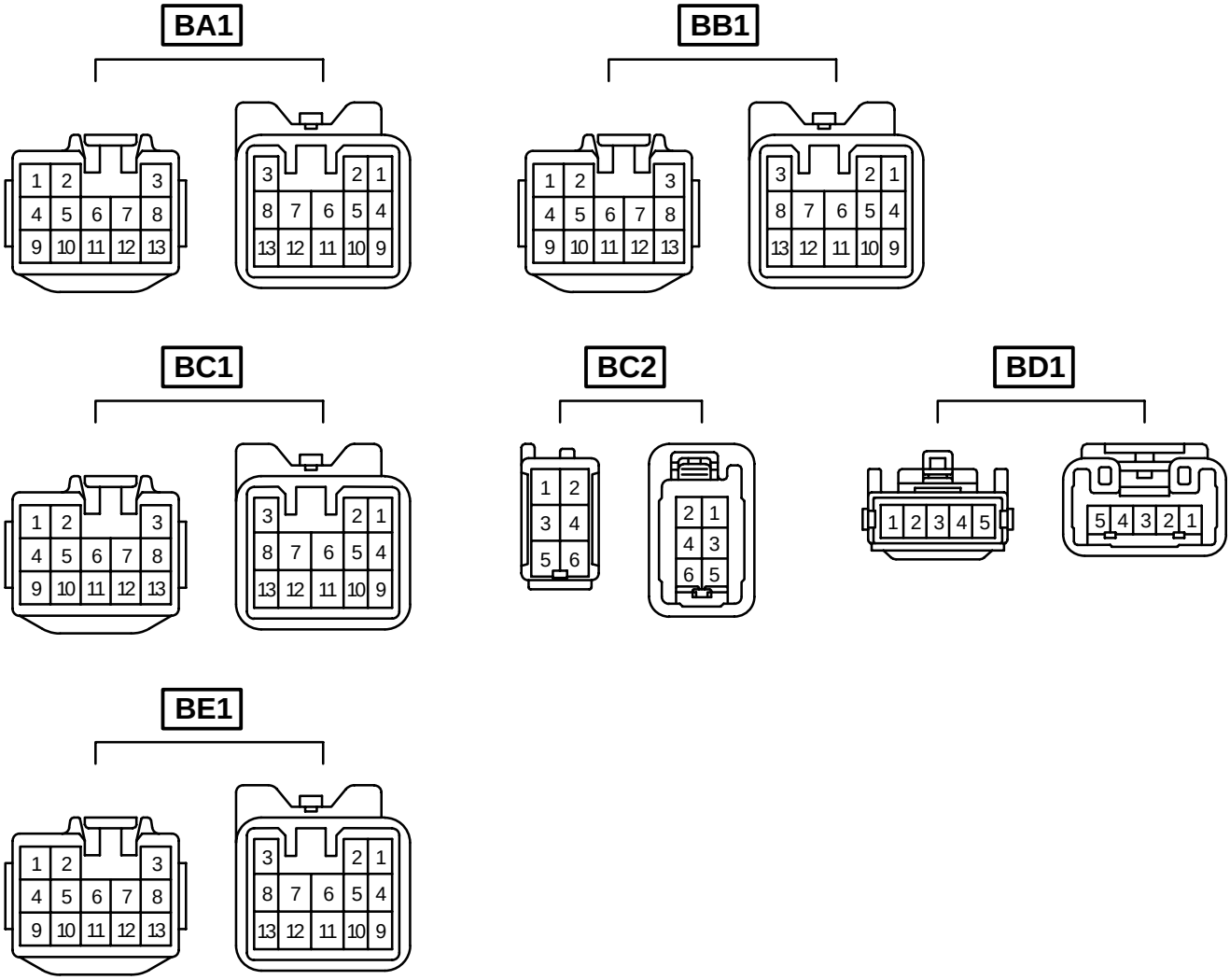
Code	Joining Wire Harness and Wire Harness (Connector Location)
IH1	Instrument Panel Wire and Engine Room Main Wire (Upper Part of Front Body Pillar RH)
IH2	
II1	Instrument Panel Wire and Floor No.2 Wire (Upper part of Front Body Pillar RH)
II2	
II3	
IJ1	Engine Room Main Wire and Floor No.2 Wire (Upper Part of Front Body Pillar RH)
IK1	Front Door RH Wire and Instrument Panel Wire (Right Kick Panel)
IK2	
IL1	Engine Wire and Instrument Panel Wire (Right Kick Panel)
IL2	
IL3	
IM1	Floor No.2 Wire and Instrument Panel Wire (Right Kick Panel)
IN1	Instrument Panel Wire and Instrument Panel No.2 Wire (Behind the Combination Meter)

▭ : Location of Connector Joining Wire Harness and Wire Harness
▽ : Location of Ground Points

[LHD]



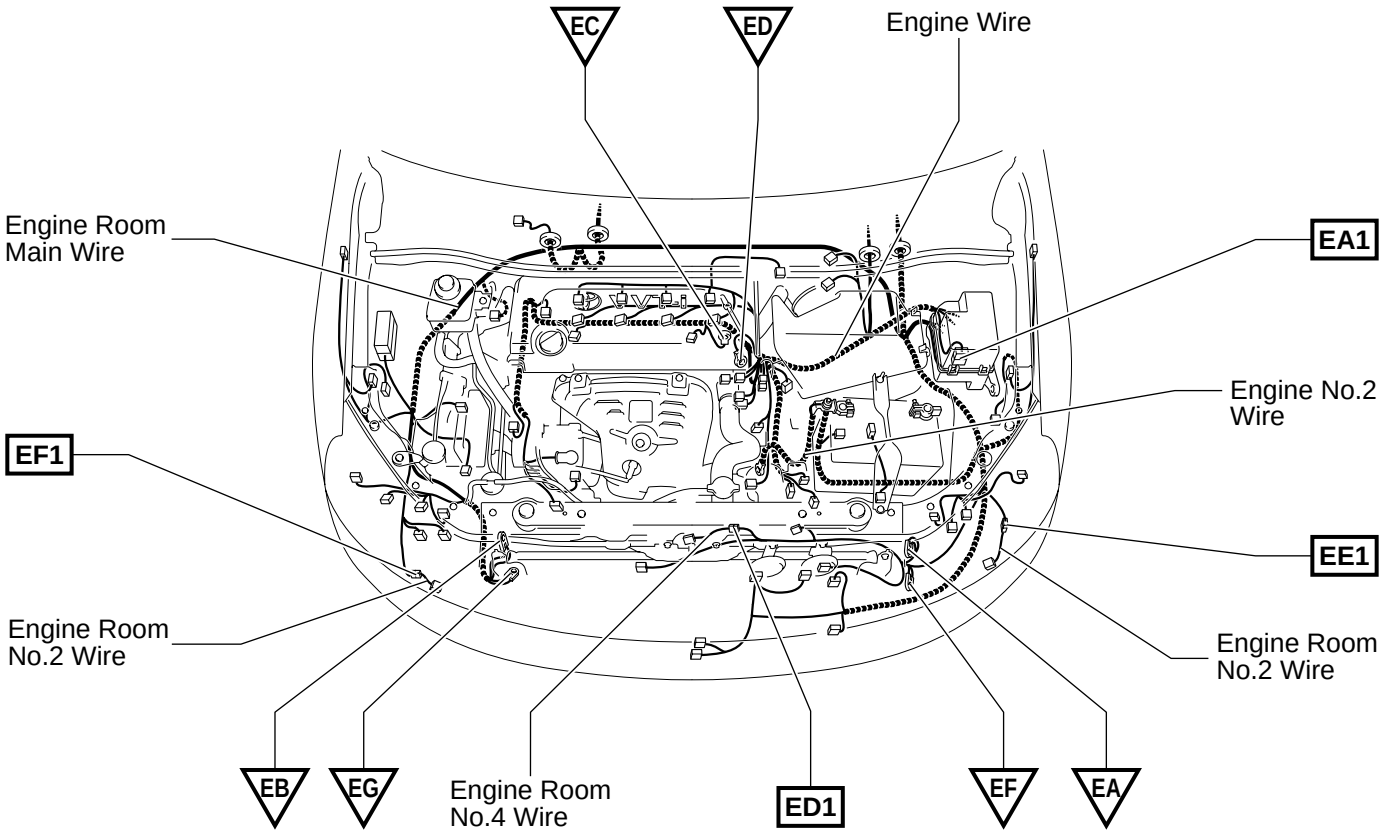
Connector Joining Wire Harness and Wire Harness



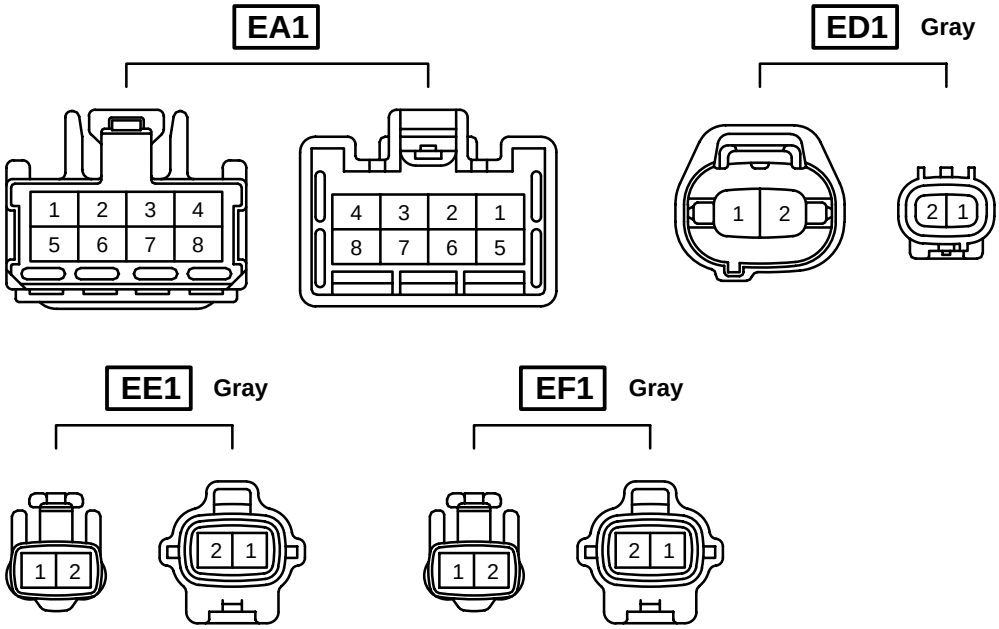
Code	Joining Wire Harness and Wire Harness (Connector Location)
BA1	Rear Door LH Wire and Floor Wire (Left Center Pillar)
BB1	Rear Door RH Wire and Floor No.2 Wire (Right Center Pillar)
BC1	Back Door No.1 Wire and Floor Wire (Upper Part of Left Quarter Panel)
BC2	
BD1	Roof No.2 Wire and Floor No.2 Wire (Right Quarter Panel)
BE1	Back Door No.1 Wire and Back Door No.2 Wire (Back Door Left)

▭ : Location of Connector Joining Wire Harness and Wire Harness
▽ : Location of Ground Points

[RHD : 1AZ–FE, 2AZ–FE]



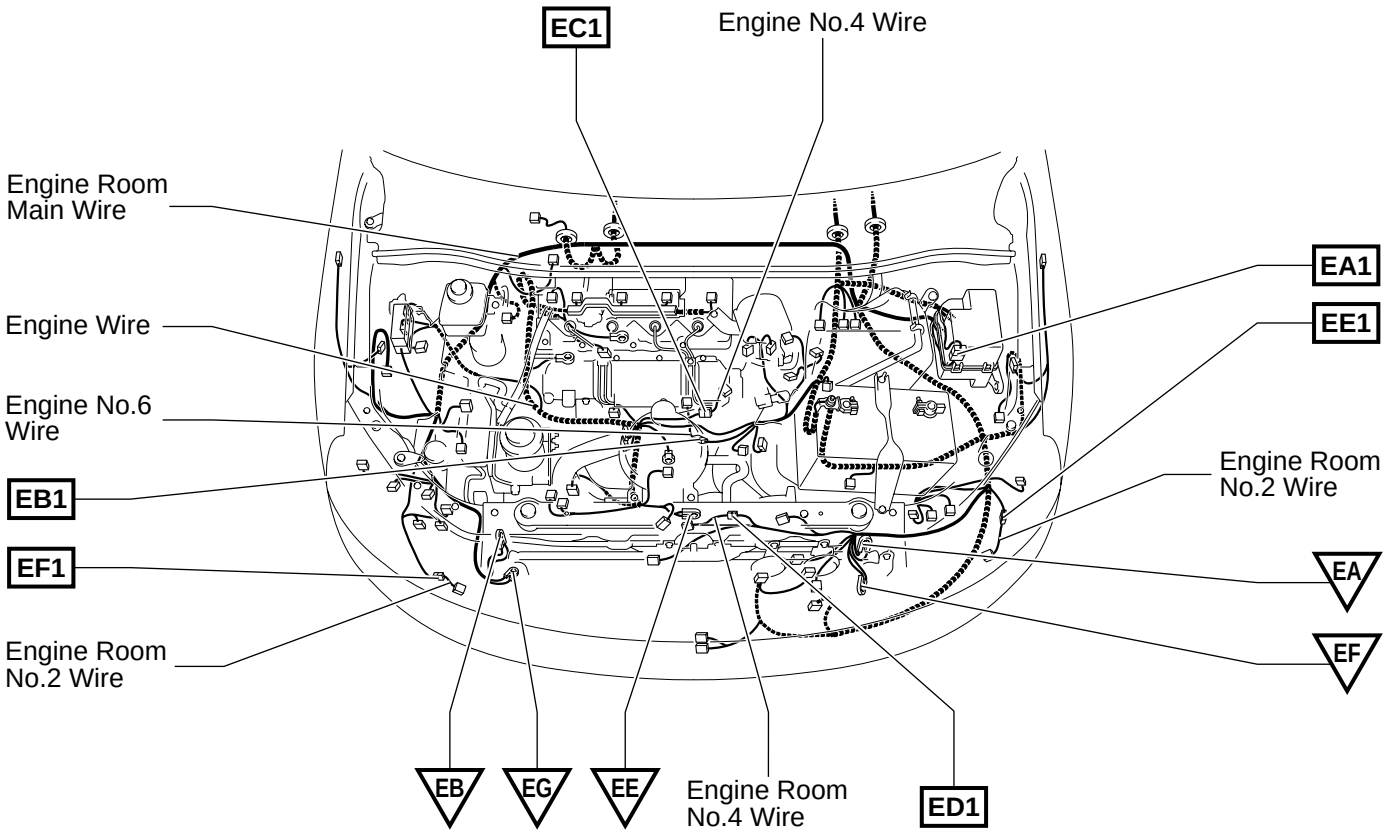
Connector Joining Wire Harness and Wire Harness



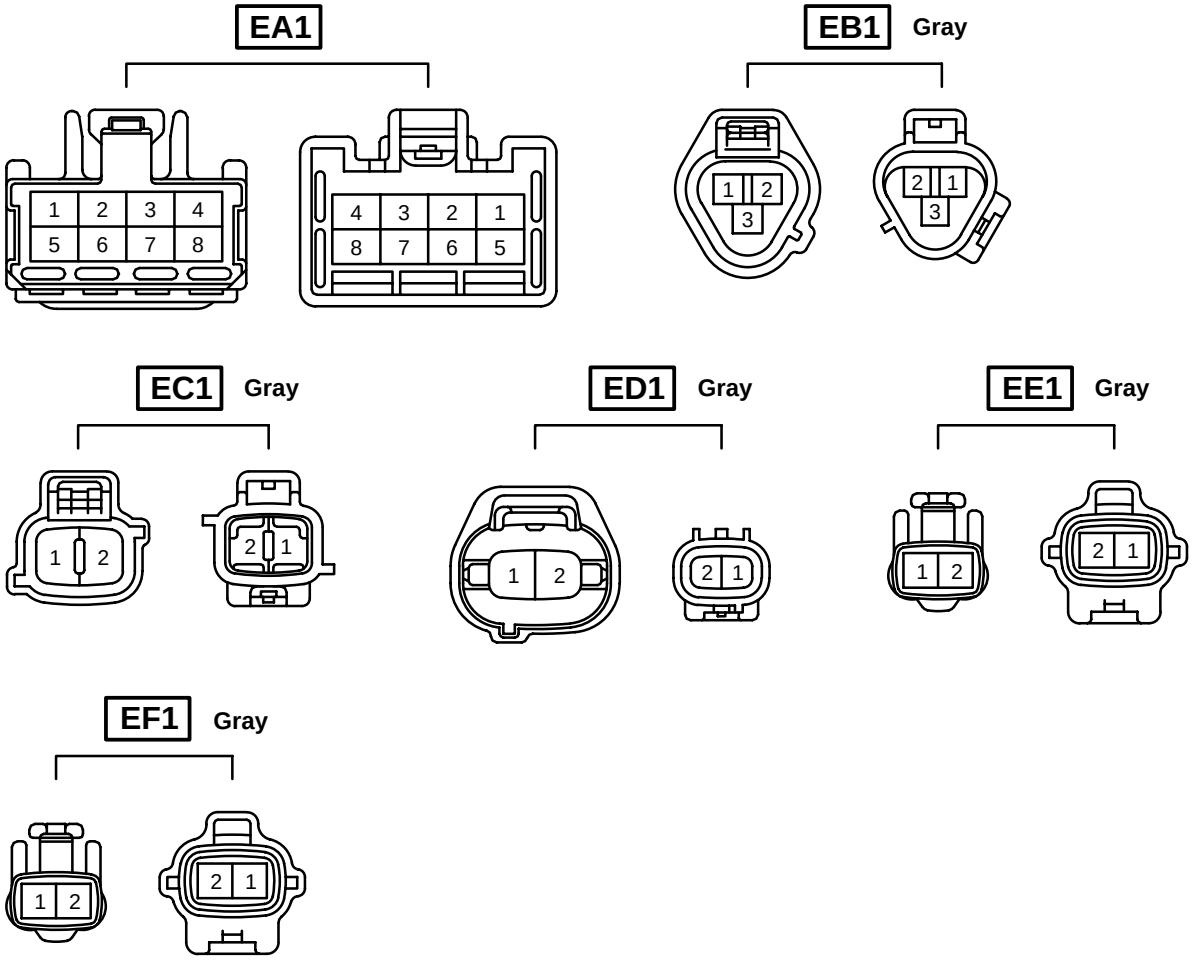
Code	Joining Wire Harness and Wire Harness (Connector Location)
EA1	Engine Wire and Engine Room Main Wire (Near the Engine Room R/B)
ED1	Engine Room No.4 Wire and Engine Room Main Wire (Near the Radiator Fan Motor)
EE1	Engine Room No.2 Wire and Engine Room Main Wire (Under the Headlight LH)
EF1	Engine Room No.2 Wire and Engine Room Main Wire (Under the Headlight RH)

▭ : Location of Connector Joining Wire Harness and Wire Harness
▽ : Location of Ground Points

[RHD : 1CD–FTV]



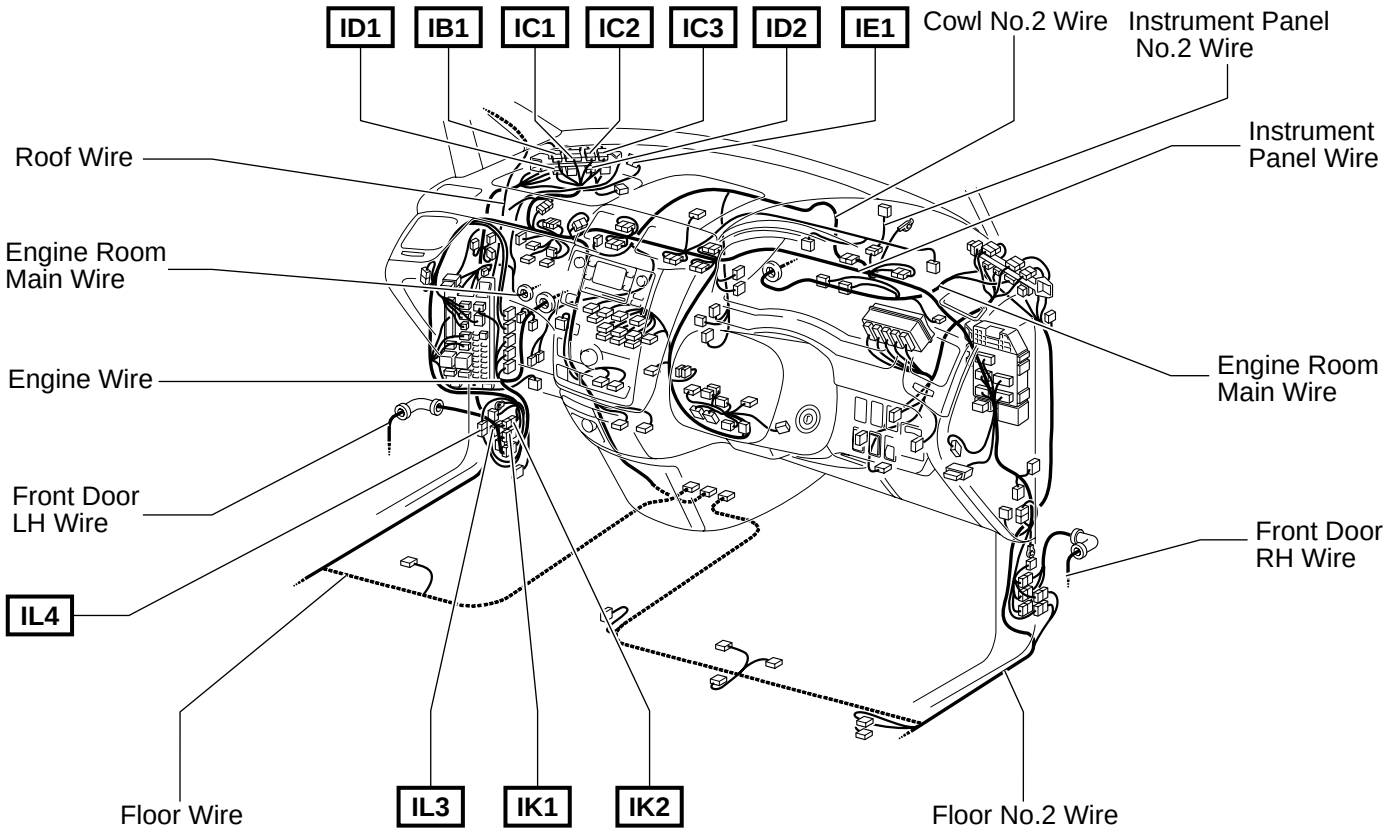
Connector Joining Wire Harness and Wire Harness



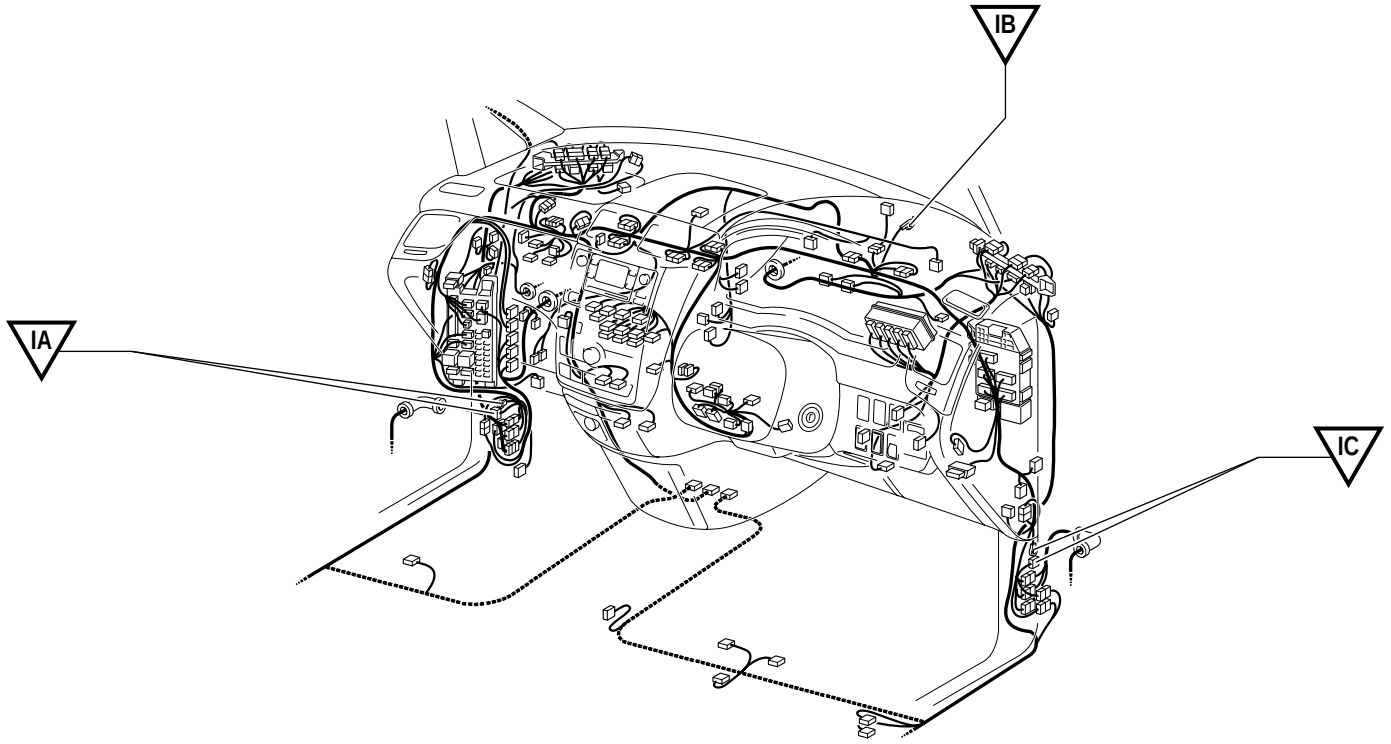
Code	Joining Wire Harness and Wire Harness (Connector Location)
EA1	Engine Wire and Engine Room Main Wire (Near the Engine Room R/B)
EB1	Engine Wire and Engine No.6 Wire (Near the Starter Motor)
EC1	Engine Wire and Engine No.4 Wire (Near the Starter Motor)
ED1	Engine Room No.4 Wire and Engine Room Main Wire (Near the Radiator Fan Motor)
EE1	Engine Room No.2 Wire and Engine Room Main Wire (Under the Headlight LH)
EF1	Engine Room No.2 Wire and Engine Room Main Wire (Under the Headlight RH)

▭ : Location of Connector Joining Wire Harness and Wire Harness

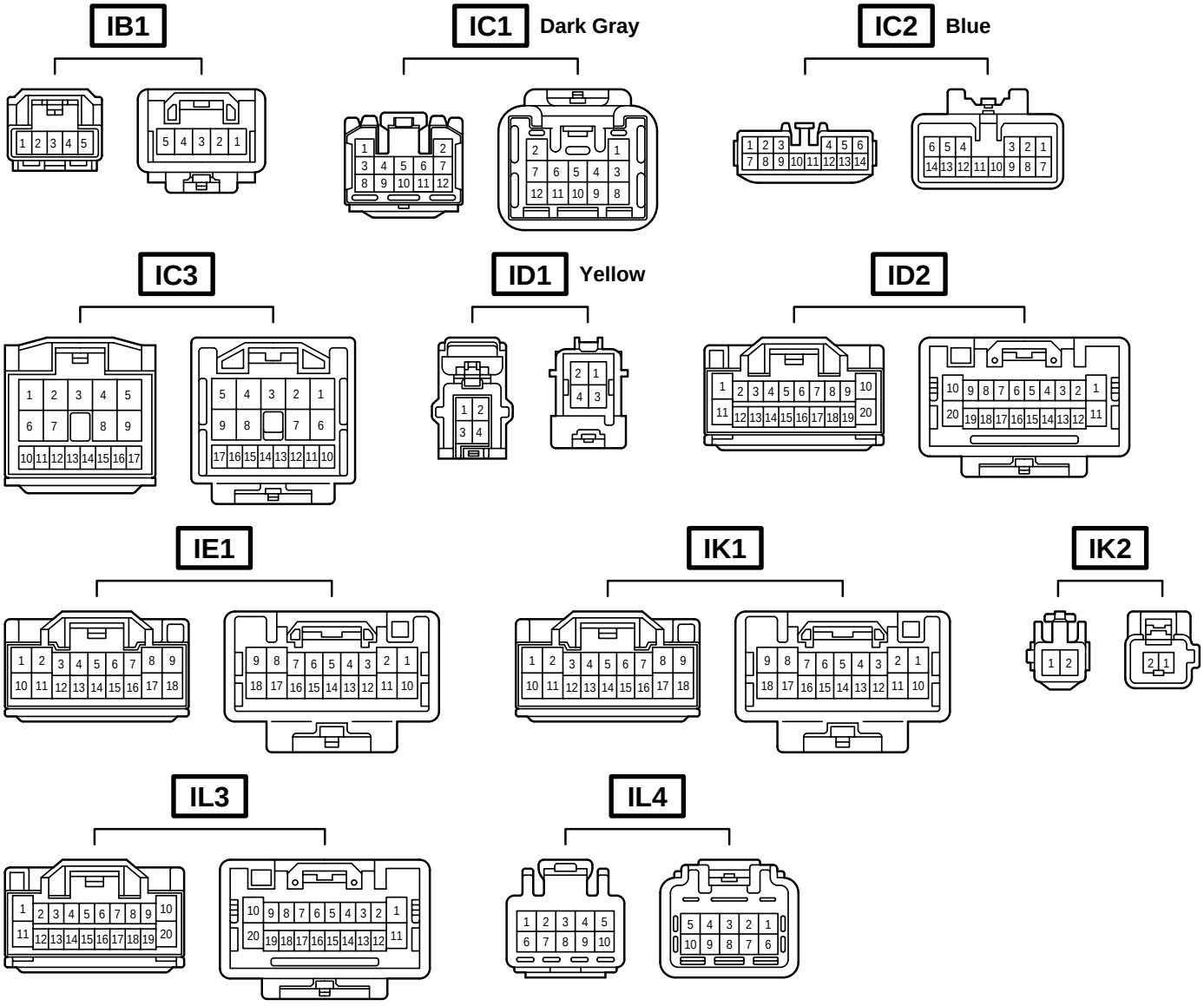
[RHD]



▽ : Location of Ground Points



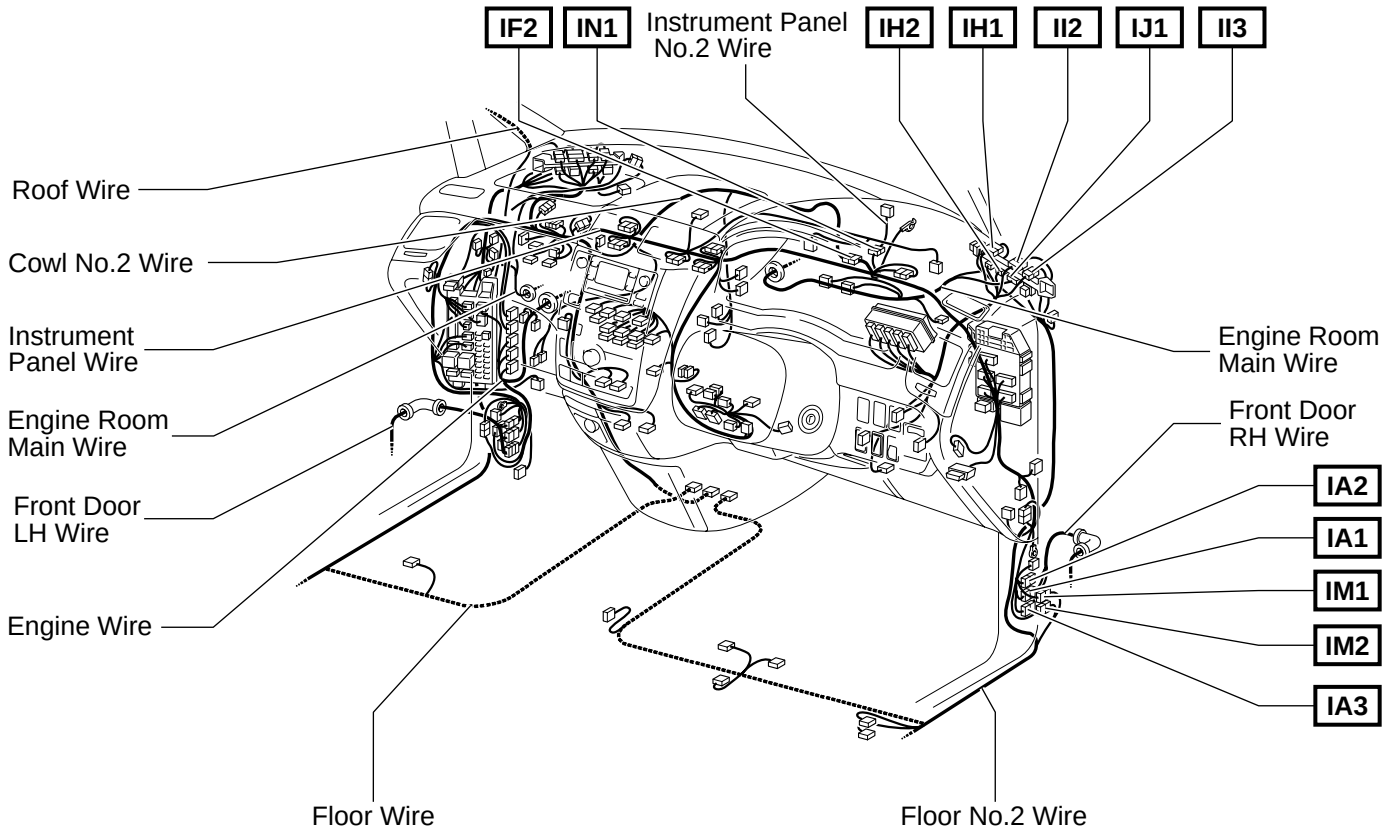
Connector Joining Wire Harness and Wire Harness



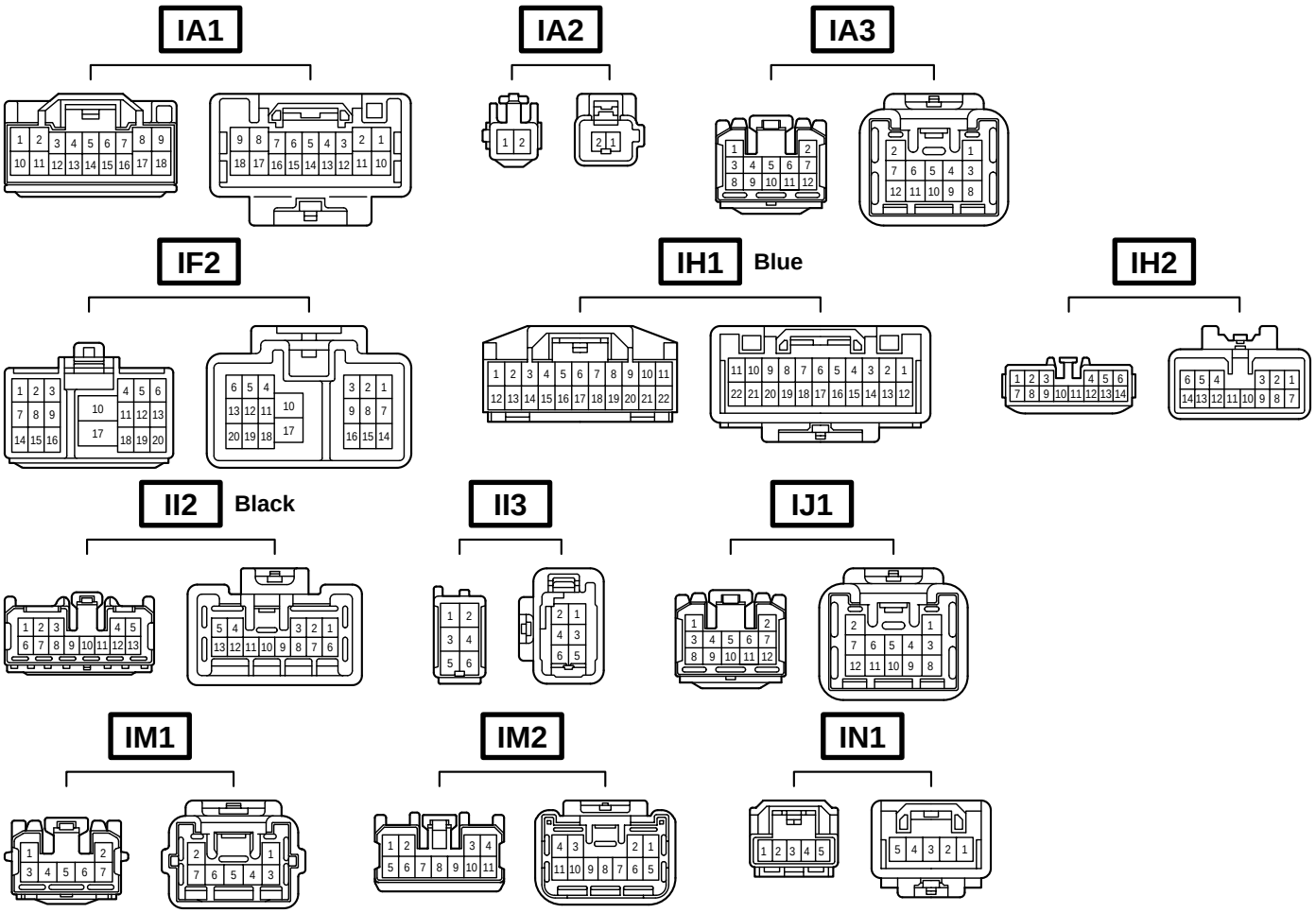
Code	Joining Wire Harness and Wire Harness (Connector Location)
IB1	Instrument Panel Wire and Roof Wire (Upper Part of Front Body Pillar LH)
IC1	Instrument Panel Wire and Floor Wire (Upper Part of Front Body Pillar LH)
IC2	
IC3	
ID1	Instrument Panel Wire and Engine Room Main Wire (Upper Part of Front Body Pillar LH)
ID2	
IE1	Engine Room Main Wire and Floor Wire (Upper Part of Front Body LH)
IK1	Front Door LH Wire and Instrument Panel Wire (Left Kick Panel)
IK2	
IL3	Engine Wire and Instrument Panel Wire (Left Kick Panel)
IL4	

▭ : Location of Connector Joining Wire Harness and Wire Harness

[RHD]



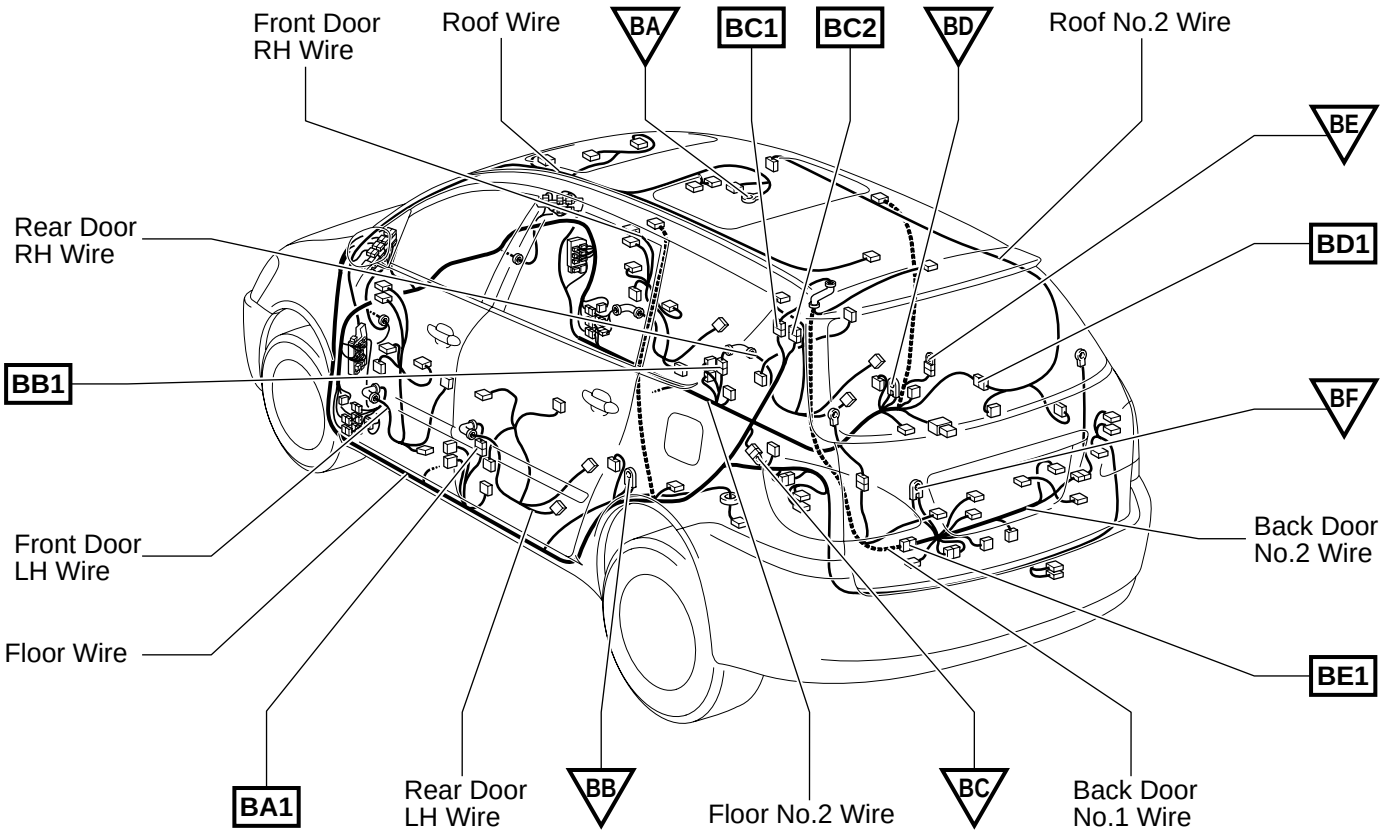
Connector Joining Wire Harness and Wire Harness



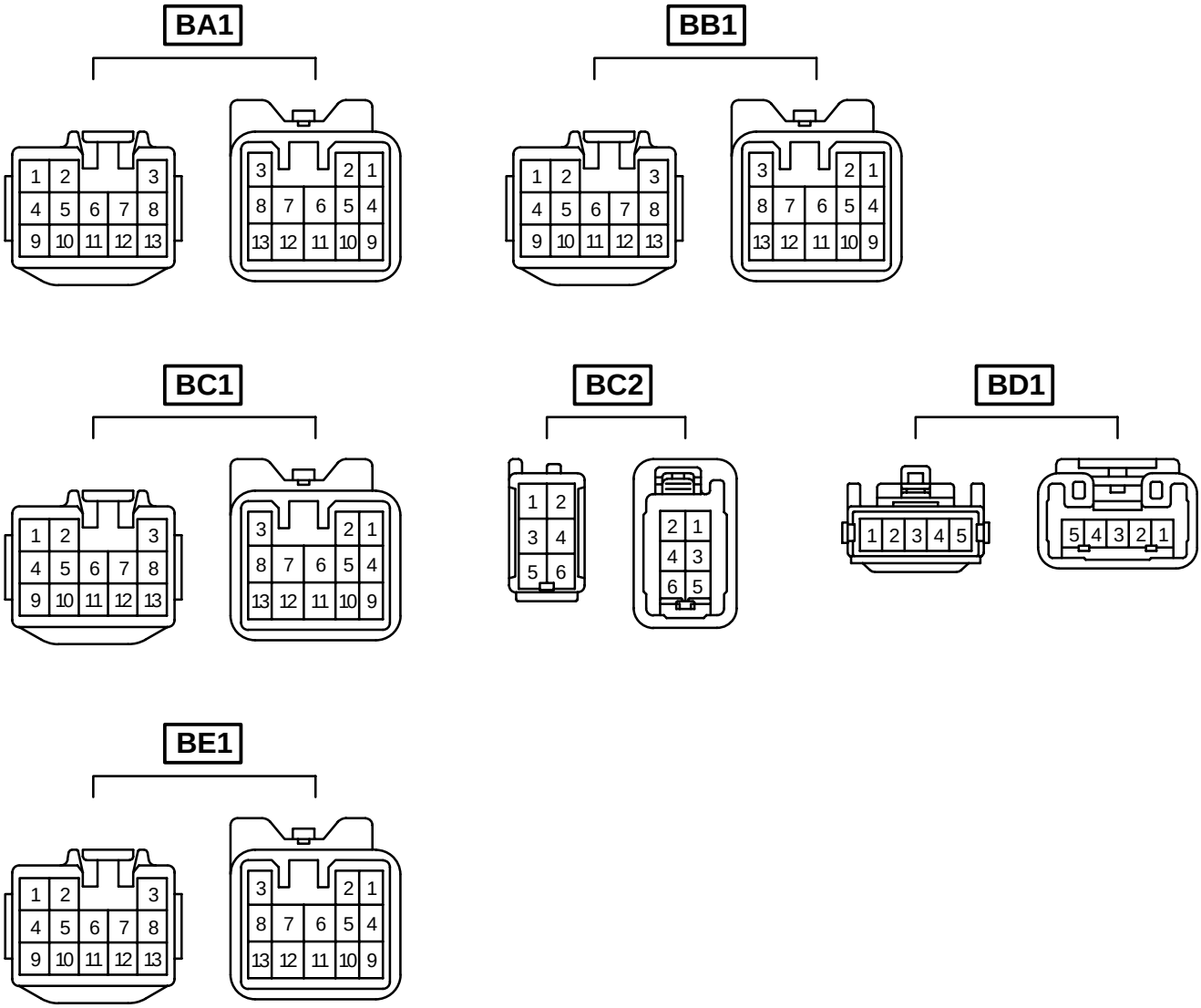
Code	Joining Wire Harness and Wire Harness (Connector Location)
IA1	Front Door RH Wire and Instrument Panel Wire (Right Kick Panel)
IA2	
IA3	
IF2	Instrument Panel Wire and Cowl No.2 Wire (Behind the Combination Meter)
IH1	Instrument Panel Wire and Engine Room Main Wire (Upper Part of Front Body Pillar RH)
IH2	
II2	Instrument Panel Wire and Floor No.2 Wire (Upper part of Front Body Pillar RH)
II3	
IJ1	Engine Room Main Wire and Floor No.2 Wire (Upper Part of Front Body Pillar RH)
IM1	Floor No.2 Wire and Instrument Panel Wire (Right Kick Panel)
IM2	
IN1	Instrument Panel Wire and Instrument Panel No.2 Wire (Behind the Combination Meter)

▭ : Location of Connector Joining Wire Harness and Wire Harness
▽ : Location of Ground Points

[RHD]



Connector Joining Wire Harness and Wire Harness

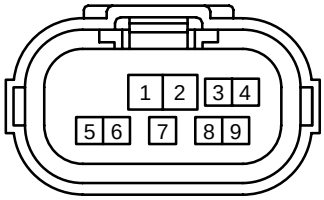


Code	Joining Wire Harness and Wire Harness (Connector Location)
BA1	Rear Door LH Wire and Floor Wire (Left Center Pillar)
BB1	Rear Door RH Wire and Floor No.2 Wire (Right Center Pillar)
BC1	Back Door No.1 Wire and Floor Wire (Upper Part of Left Quarter Panel)
BC2	
BD1	Roof No.2 Wire and Floor No.2 Wire (Right Quarter Panel)
BE1	Back Door No.1 Wire and Back Door No.2 Wire (Back Door Left)

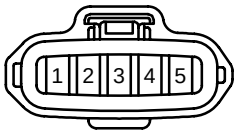
F CONNECTOR LIST

A 1
Gray

A 2
Gray



A 3
Black

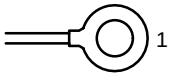


A 4
Gray

A 6
Yellow

A 7
Yellow

A 8



A 9
(Except 2AZ–FE) Green

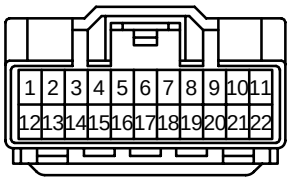
A 9
(2AZ–FE) Black

A10
Black

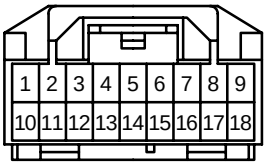
A11
(LHD) Dark Gray

A11
(RHD) Black

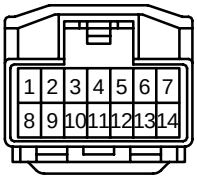
A12



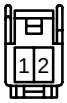
A13



A14

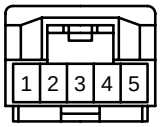


A15

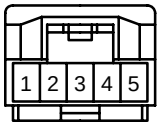


A16
Black

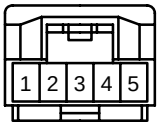
A17
Black



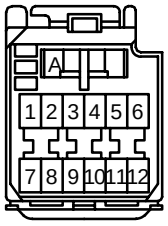
A18
Black



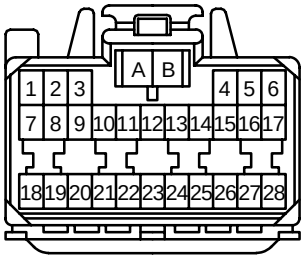
A19
Black



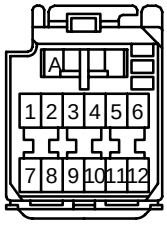
A20
Yellow



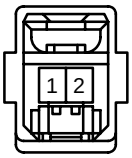
A21
Yellow



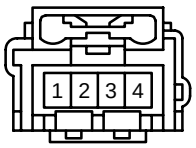
A22
Yellow



A23
Yellow

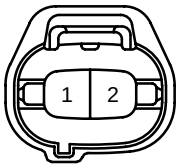


A24
Yellow



A25

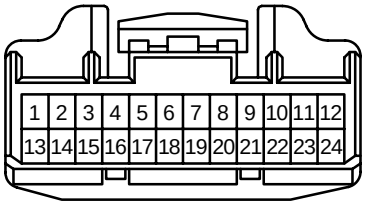
A26
Black



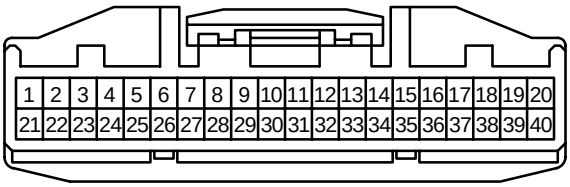
A27
Black

*1 : Except Two Way Flow Heater
*2 : Two Way Flow Heater

A28

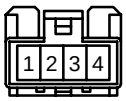


A29



A30
Black

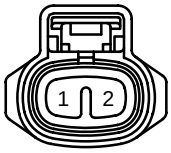
A31



A32
Black

A33

B 1
Gray

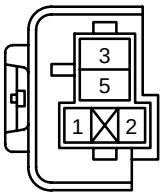


B 2
(LHD) Gray

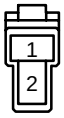
B 2
(RHD) Black

B 3
Gray

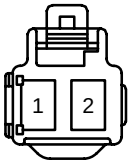
B 4
Black



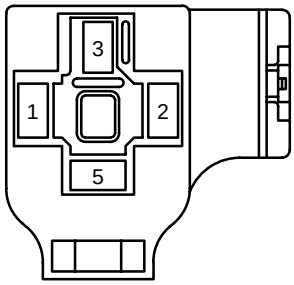
B 5
(*1) Black



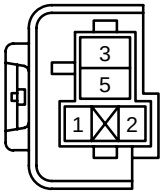
B 5
(*2) Black



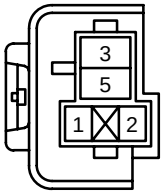
B 6



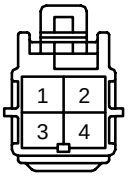
B 7



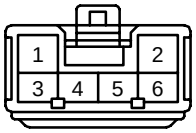
B 8
Black



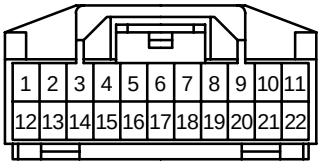
B 9
(*1) Black



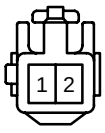
B 9
(*2) Black



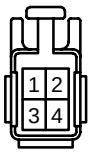
B10



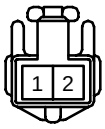
B11



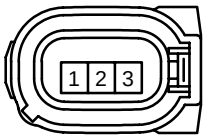
B12



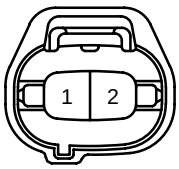
B13



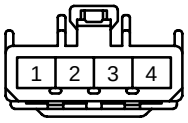
B14
Black



B15
Black



B16
Black

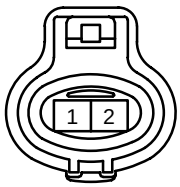


C 1
(Except 1CD–FTV) Black

C 1
(1CD–FTV)

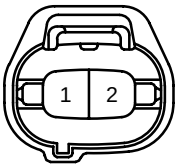
C 2
Black

C 3
Gray



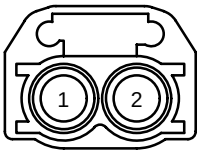
F CONNECTOR LIST

C 4
Black

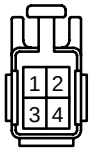


C 5
(Except 1CD–FTV) Dark Gray

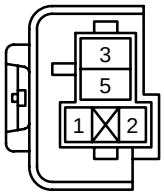
C 5
(1CD–FTV) Black



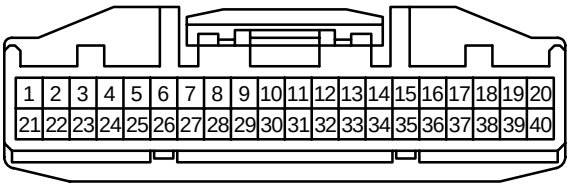
C 6



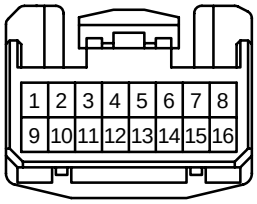
C 7



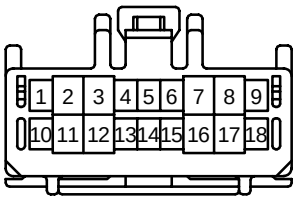
C 8



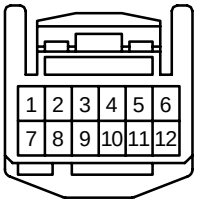
C 9



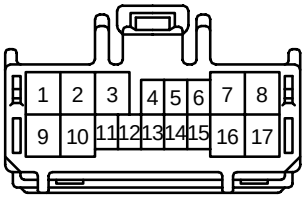
C10
Black



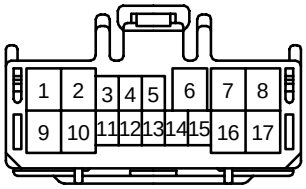
C11
Black



C12
(Europe)



C12
(Except Europe)



C13
Yellow

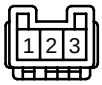
C14
Yellow

D 1
Black

D 2

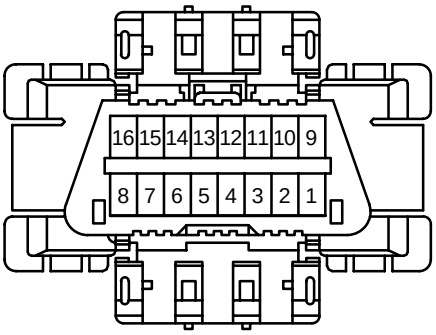
D 3

D 4

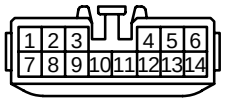


D 5

D 6



D 7



D 8

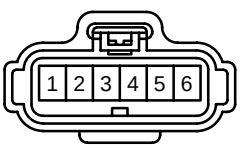
D 9

D10

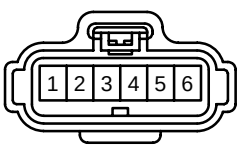
D11

D12
Gray

D13
Black



D14
Black

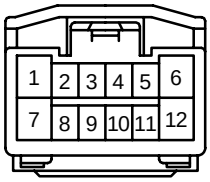


D15
Gray

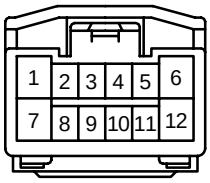
D16
Gray

D17
Gray

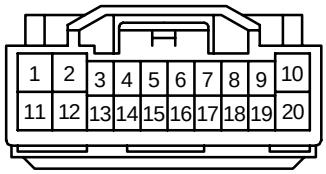
D18



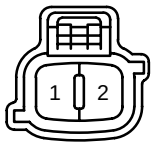
D19



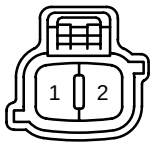
D20



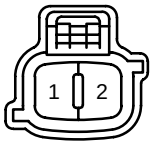
D21
Black



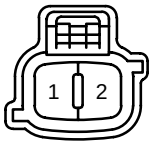
D22
Black



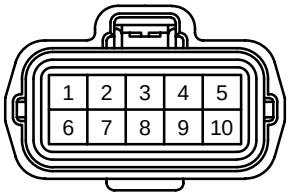
D23
Black



D24
Black

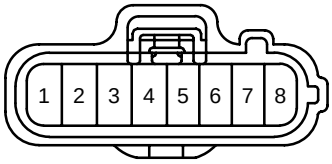


E 1
Gray

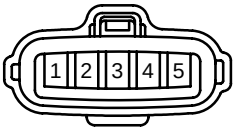


E 2
Black

E 3
Black



E 4
Black

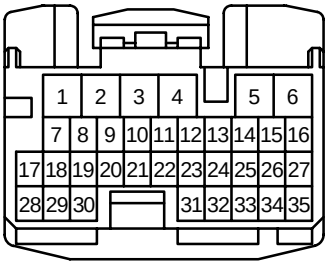


E 5
(LHD)

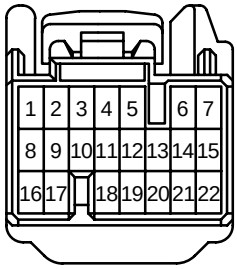
E 5
(RHD) Black

E 6
Gray

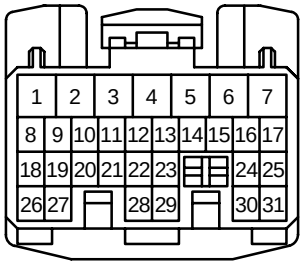
E 7
(Except 1CD–FTV)



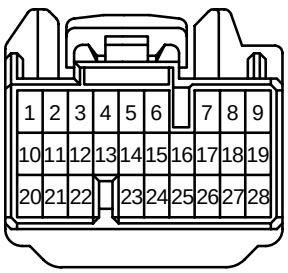
E 7
(1CD–FTV)



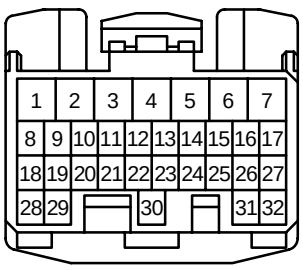
E 8
(Except 1CD–FTV)



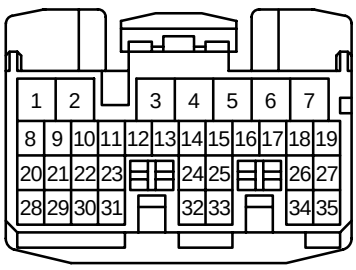
E 8
(1CD–FTV)



E 9

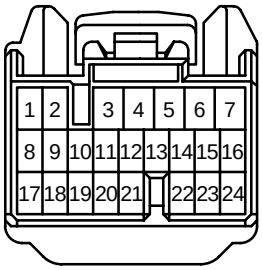


E10
(Except 1CD–FTV)

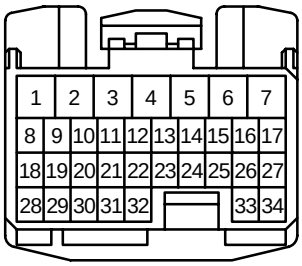


F CONNECTOR LIST

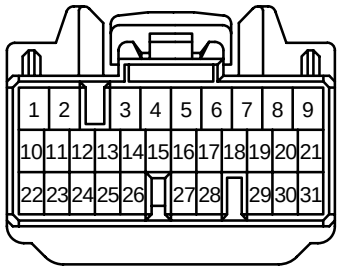
E10
(1CD–FTV)



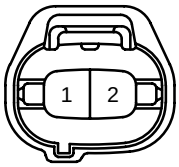
E11
(Except 1CD–FTV)



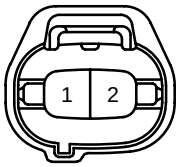
E11
(1CD–FTV)



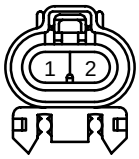
F 1
Black



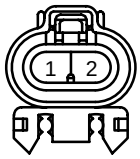
F 2
Black



F 3
Gray



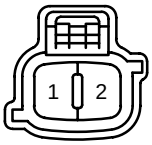
F 4
Gray



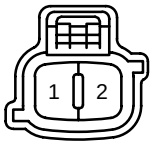
F 5
Gray

F 6
Gray

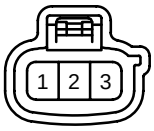
F 7
Gray



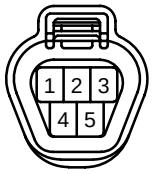
F 8
Gray



F 9
Black

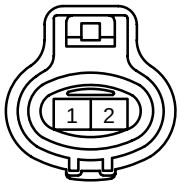


F10
Black



F11
Gray

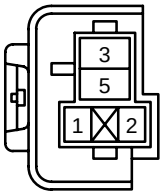
F12
Gray



F13
Black

F14
Dark Gray

F15

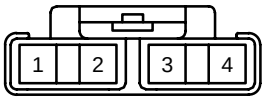


F16

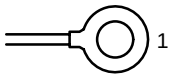
F17

F18

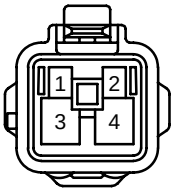
F19



G 1

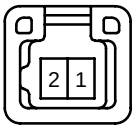


G 2
Gray



G 3

G 4

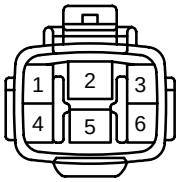


H 1
Black

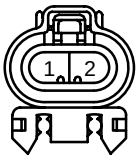
H 2
Black

H 3
Gray

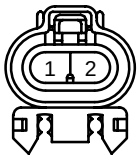
H 4
Black



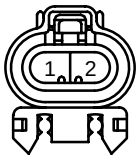
H 5
Black



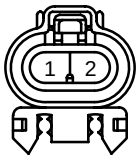
H 6
Brown



H 7
Black



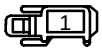
H 8
Brown



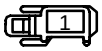
H 9
Dark Gray

H10
Dark Gray

H11
Black

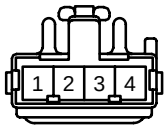


H12
Black

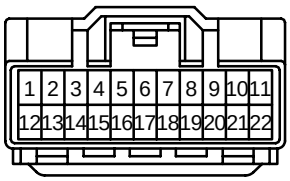


H13
Gray

H14

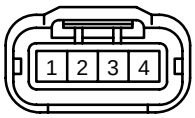


H15

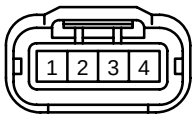


H16
Gray

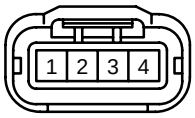
I 1
Gray



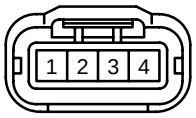
I 2
Brown



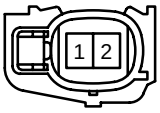
I 3
Gray



I 4
Brown

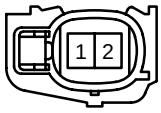


I 5
(Except 1CD–FTV) Black



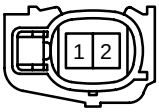
I 5
(1CD–FTV)

I 6
(Except 1CD–FTV) Gray



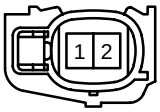
I 6
(1CD–FTV)

I 7
(Except 1CD–FTV) Black



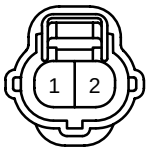
I 7
(1CD–FTV)

I 8
(Except 1CD–FTV) Gray

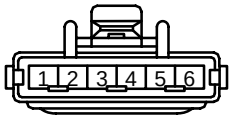


I 8
(1CD–FTV)

I 9
Dark Gray

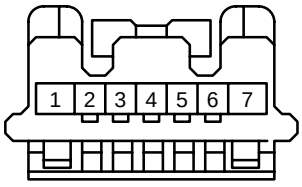


I11
Black



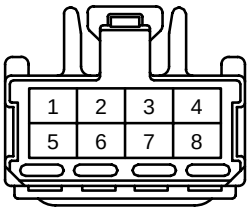
I12
Gray

I13
Black

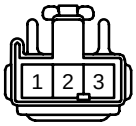


F CONNECTOR LIST

I14



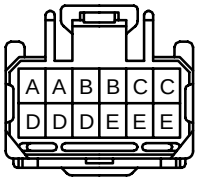
I15



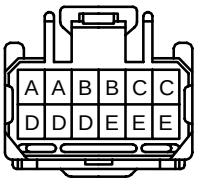
I16
(w/ Moon Roof)

I16
(w/o Moon Roof)

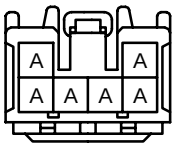
J 1
Black



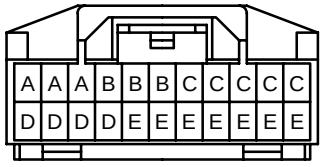
J 2
Black



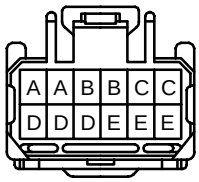
J 3



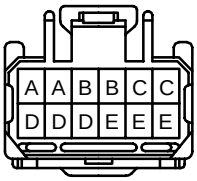
J 4



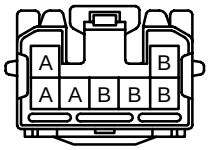
J 5



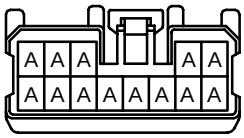
J 6



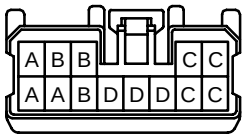
J 7



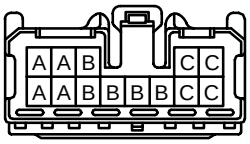
J 8
Black



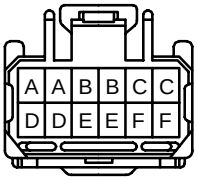
J 9
Blue



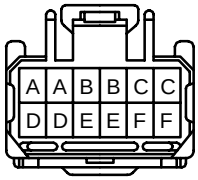
J10



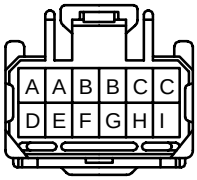
J11



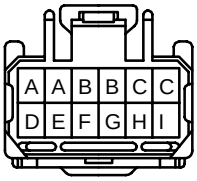
J12



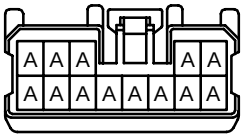
J13
Black



J14
Black

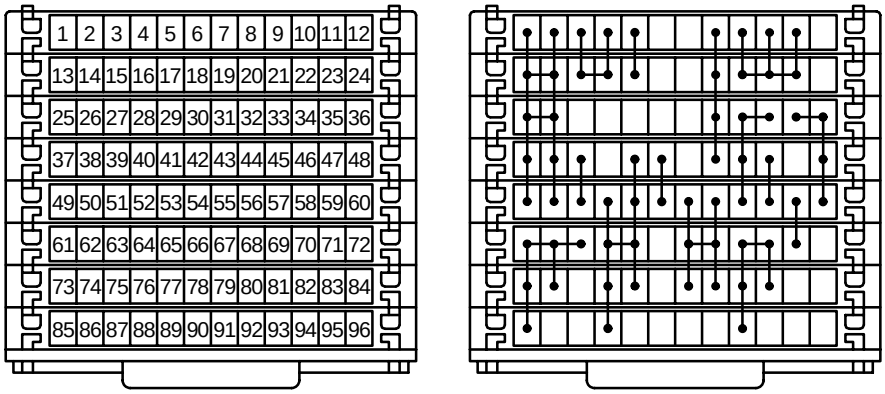


J15
Black

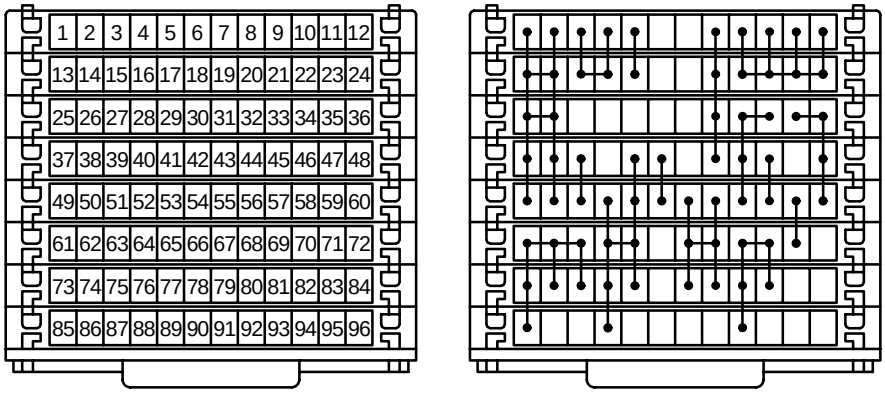


*3 : LHD Automatic A/C

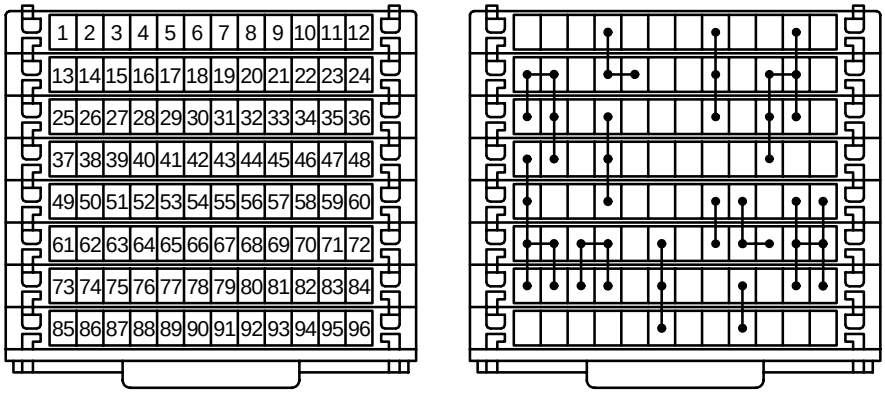
J16
(*3) Short Terminal Grouping



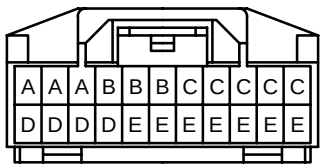
J16
(LHD Manual A/C) Short Terminal Grouping



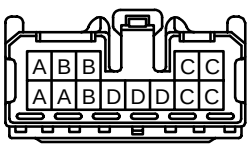
J16
(RHD) Short Terminal Grouping



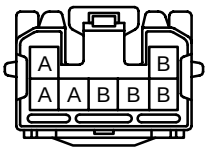
J17



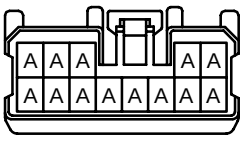
J18
(LHD) Blue



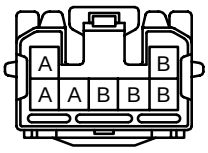
J18
(RHD)



J19
Black

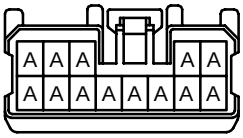


J20

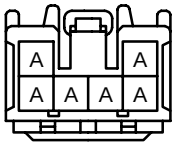


F CONNECTOR LIST

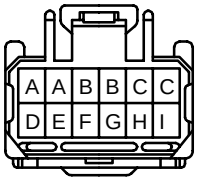
J21
Black



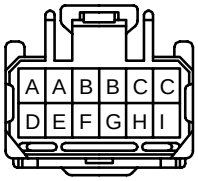
J22



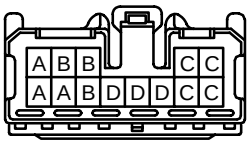
J23
Brown



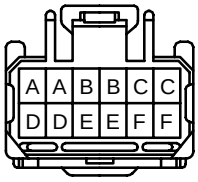
J24
Brown



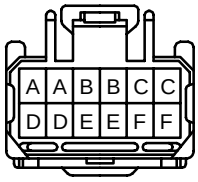
J25
Blue



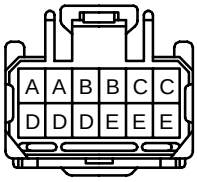
J26



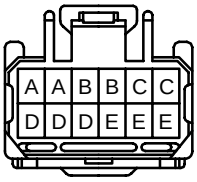
J27



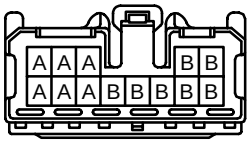
J28
Black



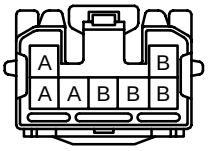
J29
Black



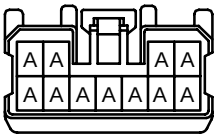
J30



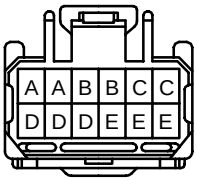
J31



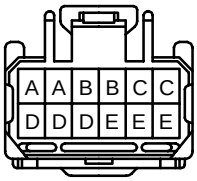
J32



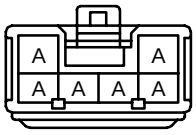
J33



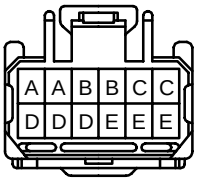
J34



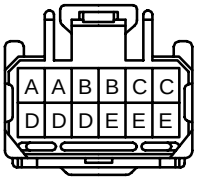
J35



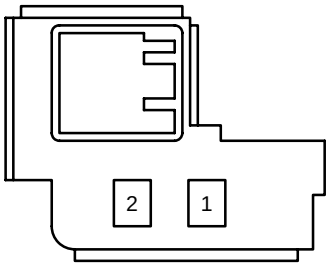
J36



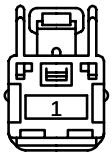
J37



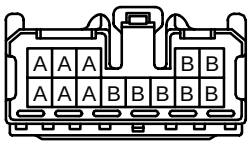
J38
Black



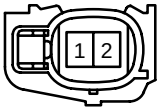
J39



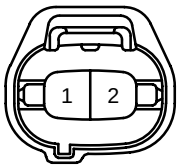
J40
Gray



K 1
Black



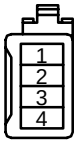
K 2
Black



L 1
Gray

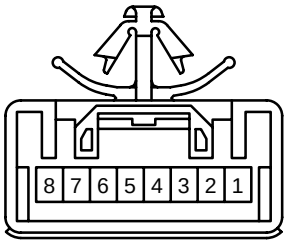
L 2
Gray

L 3

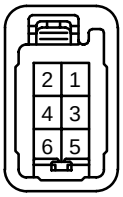


*4 : w/ Mirror Heater
*5 : w/o Mirror Heater

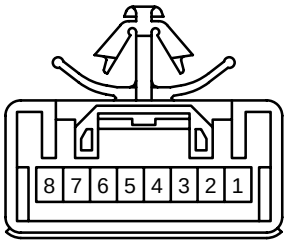
M 1 (*4)



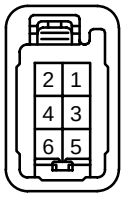
M 1 (*5)



M 2 (*4)

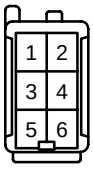


M 2 (*5)

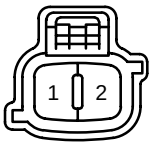


M 3

M 4



N 1 (1AZ–FE) Gray



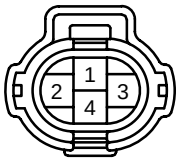
N 1 (2AZ–FE) Gray

O 1 Gray

O 2

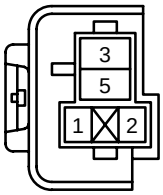
P 1 Black

P 2 Gray

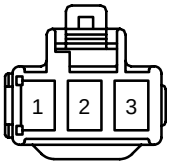


P 3 Brown

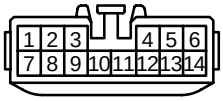
P 4



P 5



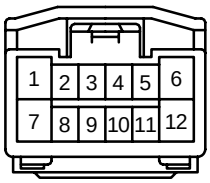
P 6 Black



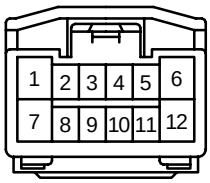
P 7

P 8

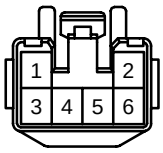
P 9



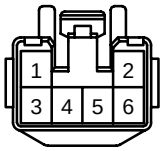
P10



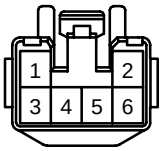
P11 Black



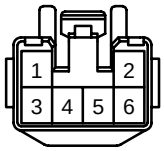
P12 Black



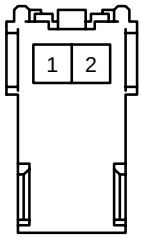
P13 Black



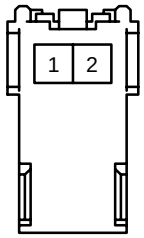
P14 Black



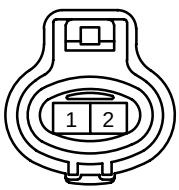
P15 Yellow



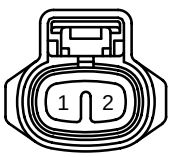
P16 Yellow



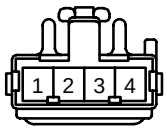
R 1 Gray



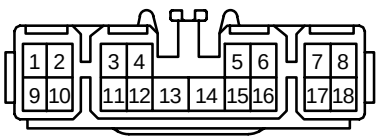
R 2 Black



R 3

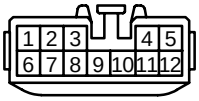


R 4

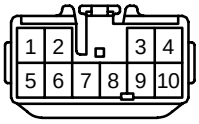


F CONNECTOR LIST

R 5

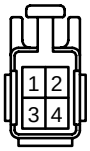


R 6

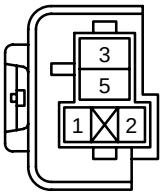


R 7

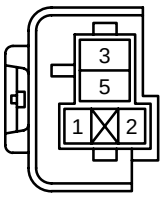
R 8



R 9

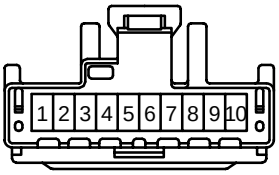


R10
Black

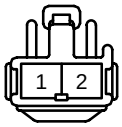


R11
Gray

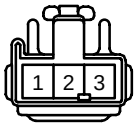
R12



R13
Black

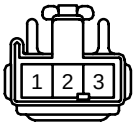


R14



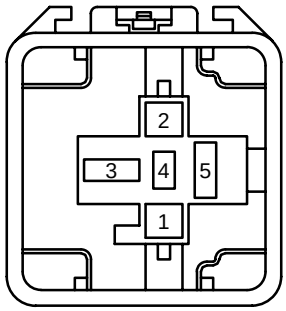
R15

R16

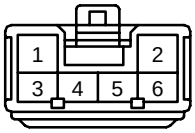


R17

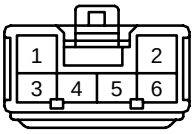
R18



R19
Black



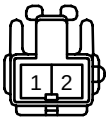
R20



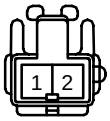
R21

R22

R23
Gray



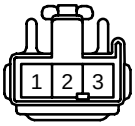
R24
Gray



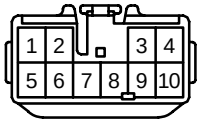
R25

R26

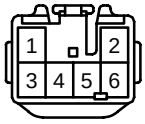
R27



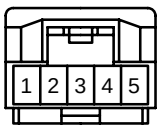
R28



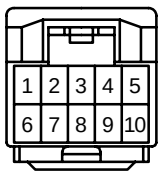
R29



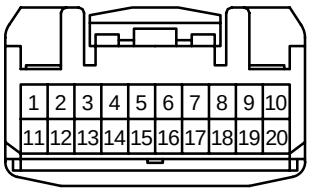
R30
Gray



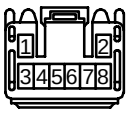
R31



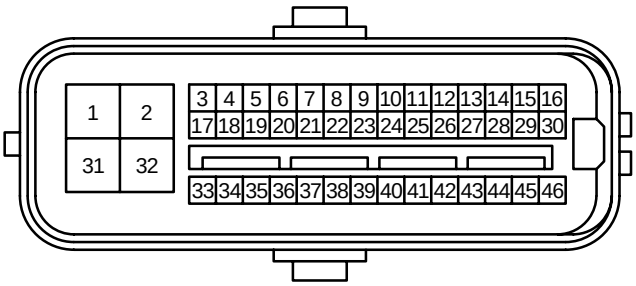
R32



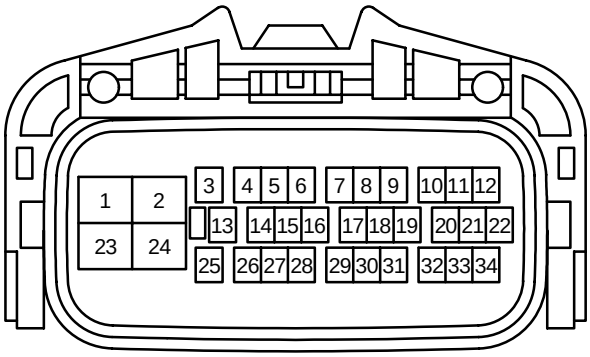
R33



S 1
(w/ VSC) Black



S 1
(w/o VSC) Black

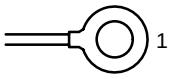


S 2
Gray

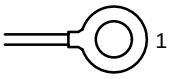
S 3

S 4
Black

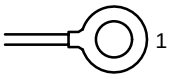
S 5
(A/T)



S 5
(M/T 1AZ–FE)



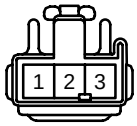
S 5
(M/T 1CD–FTV)



S 6
Black

S 7
Gray

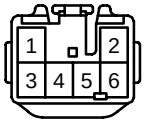
S 8



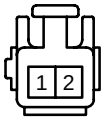
S 9

S10
Black

S11
Brown

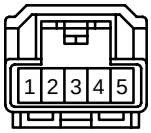


S12

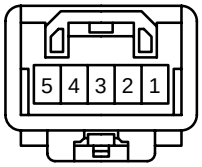


S13

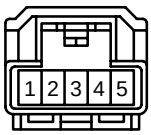
S14



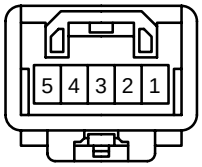
S15



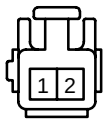
S16



S17

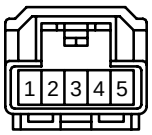


S18

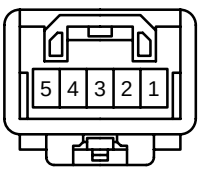


S19

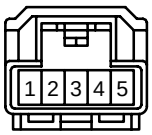
S22



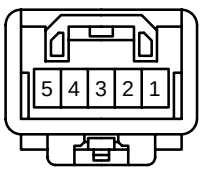
S23



S24



S25



S26

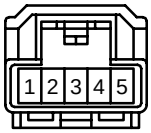
F CONNECTOR LIST

S27

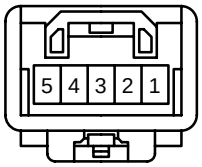
S28

S29

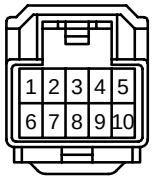
S30
Black



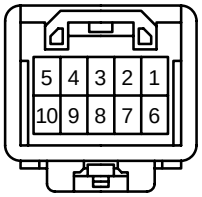
S31
Black



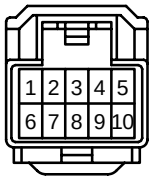
S32



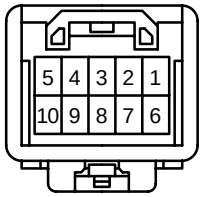
S33



S34

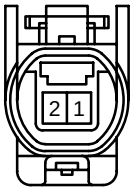


S35

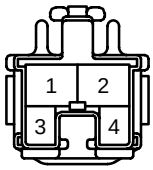


S36
Yellow

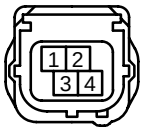
S37
Yellow



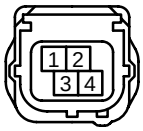
S38



S39
Yellow



S40
Yellow



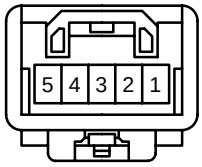
S41

S42

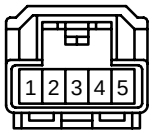
S43

S44

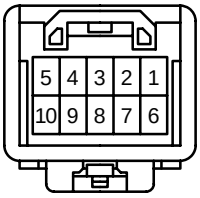
S45



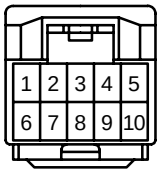
S46



S47
Blue



S48
Blue



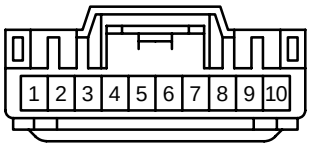
S49

S50

S51

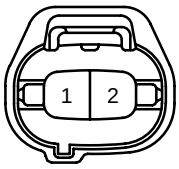
S52

S53
Gray



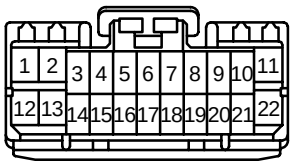
T 2
Dark Gray

T 3

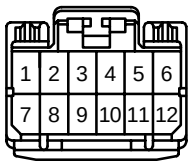


T 4
Black

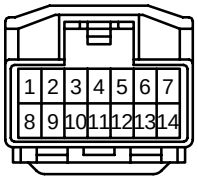
T 5



T 6

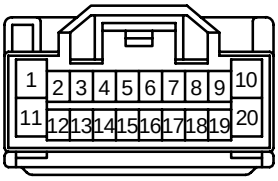


T 8



T 9

T10



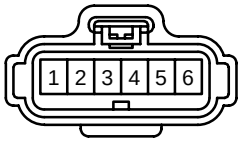
T11
(LHD) Gray

T11
(RHD)

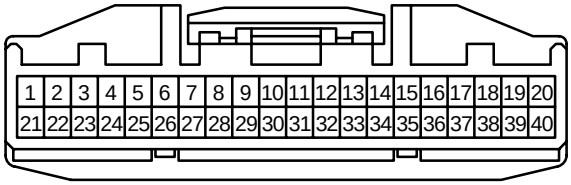
T12
Black

T13
Black

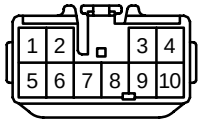
T14
Black



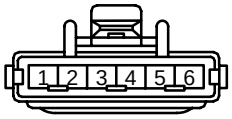
T15



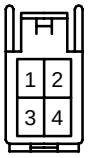
T16



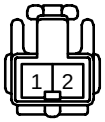
T17
Black



T18

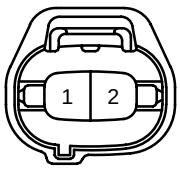


U 1

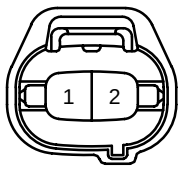


V 1
Black

V 2
Blue



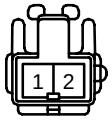
V 3
Brown



V 4

V 5

V 6
Black

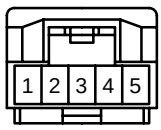


W 1
(Except 1CD–FTV) Gray

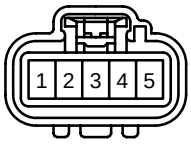
W 1
(1CD–FTV) Dark Gray

W 2

W 3



Y 1
Black



G PART NUMBER OF CONNECTORS

Code	Part Name	Part Number
A 1	A/C Lock Sensor	90980–11016
	A/C Magnetic Clutch	
A 2	A/T Indicator Light SW	90980–12362
	Back–Up Light SW	
	Neutral Start SW	
A 3	Air Flow Meter	90980–11317
A 4	Air Fuel Ratio Sensor (Bank 1 Sensor 1)	90980–11178
A 6	Airbag Sensor Front LH	90980–11856
A 7	Airbag Sensor Front RH	
A 8	Alternator	90980–09212
A 9	Alternator	90980–11964
A10	Ambient Temp. Sensor No.1	90980–11070
A11	Ambient Temp. Sensor No.2	
A12	A/C Amplifier	90980–12175
A13	A/C Amplifier	90980–11913
A14	A/C Amplifier	90980–12173
A15	A/C Evaporator Temp. Sensor	90980–12128
A16	Accelerator Pedal Position Sensor	90980–11144
A17	Air Inlet Control Servo Motor	90980–11909
A18	Air Mix Control Servo Motor	
A19	Air Vent Mode Control Servo Motor	
A20	Airbag Sensor Assembly	90980–11873
A21	Airbag Sensor Assembly	90980–11872
A22	Airbag Sensor Assembly	90980–11871
A23	Airbag Squib (Front Passenger Airbag Assembly)	90980–11884
A24	Airbag Squib (Steering Wheel Pad)	90980–12160
A25	Ashtray Illumination	90980–10355
A26	A/C Compressor	90980–11156
A27	Air Conditioner Pressure Sensor	90980–10845
A28	A/C Control Assembly	90980–12200
A29	A/C Control Assembly	90980–12169
A30	A/C Room Temp. Sensor	90980–12128
A31	A/C Room Temp. Sensor	90980–11950
A32	A/C Solar Sensor	90980–11918
A33	Antenna Amplifier	90980–10870
B 1	Back–Up Light SW	90980–11250
B 2	Brake Fluid Level Warning SW (LHD)	90980–11009
	Brake Fluid Level Warning SW (RHD)	90980–11207
B 3	Brake Vacuum Warning SW	90980–11252
B 4	Back–Up Light Relay	82660–20340
B 5	Blower Motor (Except Two Way Flow Heater)	90980–10214
	Blower Motor (Two Way Flow Heater)	90980–10903
B 6	Blower Relay (HI)	82660–28230
B 7	Blower Relay (M1)	82660–20340
B 8	Blower Relay (M2)	

Code	Part Name	Part Number
B 9	Blower Resistor (Except Two Way Flow Heater)	90980–11136
	Blower Resistor (Two Way Flow Heater)	90980–10976
B10	Body ECU	90980–11915
B11	Buckle SW RH	82824–52020
B12	Back Door Courtesy SW	90980–10795
	Back Door Lock Motor	
B13	Back Door Opener SW	82824–52030
B14	Battery Current Sensor Assembly	90980–12168
B15	Battery Thermometer Sensor	90980–11156
B16	Blower Motor Controller	90980–11676
C 1	Camshaft Position Sensor	90980–10947
C 2	Camshaft Timing Oil Control Valve	90980–11162
C 3	Condenser Fan Motor	90980–10928
C 4	Counter Gear Speed Sensor	90980–11156
C 5	Crankshaft Position Sensor (Except 1CD–FTV)	90980–10947
	Crankshaft Position Sensor (1CD–FTV)	90980–12028
C 6	Cigarette Lighter	90980–10795
C 7	Circuit Opening Relay	82660–20340
C 8	Combination Meter	90980–12169
C 9	Combination Meter	90980–12155
C10	Combination SW	90980–11594
C11	Combination SW	90980–12183
C12	Combination SW (Europe)	90980–11672
	Combination SW (Except Europe)	90980–11671
C13	Curtain Shield Airbag Squib LH	90980–11886
C14	Curtain Shield Airbag Squib RH	
D 1	Diesel Throttle Control Motor	90980–11144
D 2	Diode	90980–11608
D 3	Diode	
D 4	Diode (Fan)	90980–11251
D 5	Diode	90980–11608
D 6	DLC3	90980–11665
D 7	Double Door Lock ECU	90980–10807
D 8	Door Courtesy SW Front LH	90980–12340
D 9	Door Courtesy SW Front RH	
D10	Door Courtesy SW Rear LH	
D11	Door Courtesy SW Rear RH	
D12	Door Key Lock and Unlock SW Front LH	90980–10891
	Door Lock Motor Front LH	
	Door Unlock Detection SW Front LH	
	Double Door Lock Motor Front LH	
	Double Lock Position SW Front LH	
D13	Door Key Lock and Unlock SW Front RH	90980–11858
	Door Lock Motor Front RH	

Note: Not all of the above part numbers of the connector are established for the supply.

Code	Part Name	Part Number
D14	Door Key Lock and Unlock SW Front LH	90980–11858
	Door Lock Motor Front LH	
	Door Unlock Detection SW Front LH	
D15	Door Key Lock and Unlock SW Front RH	90980–10891
	Door Lock Motor Front RH	
	Door Unlock Detection SW Front RH	
	Double Door Lock Motor Front RH	
	Double Lock Position SW Front RH	
D16	Door Key Lock and Unlock SW Rear LH	
	Door Lock Motor Rear LH	
	Door Unlock Detection SW Rear LH	
	Double Door Lock Motor Rear LH	
	Double Lock Position SW Rear LH	
D17	Door Key Lock and Unlock SW Rear RH	
	Door Lock Motor Rear RH	
	Door Unlock Detection SW Rear RH	
	Double Door Lock Motor Rear RH	
	Double Lock Position SW Rear RH	
D18	Door Lock Control SW Front LH	90980–11947
	Power Window SW Front LH	
D19	Door Lock Control SW Front RH	
	Power Window SW Front RH	
D20	Door Lock Control SW	90980–12166
	Power Window Master SW	
D21	Door Lock Motor Front LH	90980–11019
D22	Door Lock Motor Front RH	
D23	Door Lock Motor Rear LH	
D24	Door Lock Motor Rear RH	
E 1	ECT Solenoid	90980–11658
E 2	EGR Valve Control Motor	90980–11144
E 3	Electronic Driver Unit	90980–11592
E 4	Electronic Driver Unit	90980–11024
E 5	Engine Hood Courtesy SW (LHD)	90980–10887
	Engine Hood Courtesy SW (RHD)	90980–11003
E 6	Engine Oil Level Sensor	90980–11235
E 7	Engine and ECT ECU (A/T) (Except 1CD–FTV)	90980–12146
	Engine ECU (M/T) (Except 1CD–FTV)	
	Engine ECU (M/T) (1CD–FTV)	90980–11638
E 8	Engine and ECT ECU (A/T) (Except 1CD–FTV)	90980–12142
	Engine ECU (M/T) (Except 1CD–FTV)	
	Engine ECU (M/T) (1CD–FTV)	90980–11637
E 9	Engine and ECT ECU (A/T)	90980–12143
	Engine ECU (M/T)	

Code	Part Name	Part Number
E10	Engine and ECT ECU (A/T) (Except 1CD–FTV)	90980–12145
	Engine ECU (M/T) (Except 1CD–FTV)	
	Engine ECU (M/T) (1CD–FTV)	90980–11476
E11	Engine and ECT ECU (A/T) (Except 1CD–FTV)	90980–12144
	Engine ECU (M/T) (Except 1CD–FTV)	
	Engine ECU (M/T) (1CD–FTV)	90980–11421
F 1	Front Clearance Light LH	90980–11156
F 2	Front Clearance Light RH	
F 3	Front Fog Light LH	90980–11660
F 4	Front Fog Light RH	
F 5	Front Side Turn Signal Light LH	90980–11162
F 6	Front Side Turn Signal Light RH	
F 7	Front Turn Signal Light LH	90980–11019
F 8	Front Turn Signal Light RH	
F 9	Front Washer Motor	90980–10981
F10	Front Wiper Motor	90980–11599
F11	Fuel Filter Warning SW	90980–11003
F12	Fuel Heater	90980–10928
F13	Fuel Pressure Sensor	90980–10845
F14	Fuel Temp. Sensor	90980–10737
F15	Front Fog Light Relay	82660–20340
F16	Front Door Speaker LH	82824–52040
F17	Front Door Speaker RH	
F18	Fuel Pump	90980–11077
	Fuel Sender	
F19	Fuse Holder	82610–20080
G 1	Glow Plug	99141–13006
G 2	Glow Plug Relay	90980–11569
G 3	Glass Breakage Sensor	90980–10799
G 4	Glass Breakage Sensor Microphone	90980–11368
H 1	Headlight Beam Level Control Actuator LH	90980–11016
H 2	Headlight Beam Level Control Actuator RH	
H 3	Headlight Cleaner Motor	90980–11410
H 4	Headlight Cleaner Relay	90980–10939
H 5	Headlight LH (High)	90980–11659
H 6	Headlight LH (Low)	90980–11660
H 7	Headlight RH (High)	90980–11659
H 8	Headlight RH (Low)	90980–11660
H 9	Heated Oxygen Sensor (Bank 1 Sensor 1)	90980–11028
H10	Heated Oxygen Sensor (Bank 1 Sensor 2)	
H11	Horn (High)	90980–10619
H12	Horn (Low)	

G PART NUMBER OF CONNECTORS

Code	Part Name	Part Number
H13	Headlight Beam Level Control SW	90980–10996
H14	Headlight Cleaner SW	90980–11013
H15	Heater Control Panel	90980–12175
H16	High Mounted Stop Light	90980–11148
I 1	Ignition Coil and Igniter No.1	90980–11885
I 2	Ignition Coil and Igniter No.2	
I 3	Ignition Coil and Igniter No.3	
I 4	Ignition Coil and Igniter No.4	
I 5	Injector No.1 (Except 1CD–FTV)	90980–11875
	Injector No.1 (1CD–FTV)	90980–12005
I 6	Injector No.2 (Except 1CD–FTV)	90980–11875
	Injector No.2 (1CD–FTV)	90980–12005
I 7	Injector No.3 (Except 1CD–FTV)	90980–11875
	Injector No.3 (1CD–FTV)	90980–12005
I 8	Injector No.4 (Except 1CD–FTV)	90980–11875
	Injector No.4 (1CD–FTV)	90980–12005
I 9	Intake Air Temp. Sensor	90980–11025
I11	Idle–Up SW	90980–10933
I12	Ignition Key Cylinder Light	90980–11148
I13	Ignition Key Cylinder Light	90980–12092
	Transponder Key Amplifier	
I14	Ignition SW	90980–11615
I15	Interior Light (Front)	90980–10908
I16	Interior Light (Rear) (w/ Moon Roof)	90980–10935
	Interior Light (Rear) (w/o Moon Roof)	82824–52040
J 1	Junction Connector	90980–11661
J 2	Junction Connector	
J 3	Junction Connector	90980–11583
J 4	Junction Connector	90980–11915
J 5	Junction Connector	90980–11661
J 6	Junction Connector	
J 7	Junction Connector	90980–11529
J 8	Junction Connector	90980–12346
J 9	Junction Connector	
J10	Junction Connector	90980–11542
J11	Junction Connector	90980–11661
J12	Junction Connector	
J13	Junction Connector	
J14	Junction Connector	
J15	Junction Connector	90980–12346
J16	Junction Connector	82824–44050
J17	Junction Connector	90980–11915
J18	Junction Connector (LHD)	90980–11542
	Junction Connector (RHD)	90980–11529
J19	Junction Connector	90980–12346
J20	Junction Connector	90980–11529

Code	Part Name	Part Number
J21	Junction Connector	90980–12346
J22	Junction Connector	90980–11583
J23	Junction Connector	90980–11661
J24	Junction Connector	
J25	Junction Connector	90980–11542
J26	Junction Connector	90980–11661
J27	Junction Connector	
J28	Junction Connector	
J29	Junction Connector	
J30	Junction Connector	90980–11542
J31	Junction Connector	90980–11529
J32	Junction Connector	90980–12345
J33	Junction Connector	90980–11661
J34	Junction Connector	
J35	Junction Connector	90980–10976
J36	Junction Connector	90980–11661
J37	Junction Connector	
J38	Junction Block	82671–44010
J39	Junction Block	90980–11775
J40	Junction Connector	90980–11542
K 1	Knock Sensor	90980–11875
K 2	Kick Down SW	90980–11156
L 1	License Plate Light LH	90980–11148
L 2	License Plate Light RH	
L 3	Luggage Compartment Light	90980–11187
M 1	Mirror Heater LH (w/ Mirror Heater)	82824–50170
	Mirror Heater LH (w/o Mirror Heater)	90980–11587
	Remote Control Mirror LH (w/ Mirror Heater)	82824–50170
	Remote Control Mirror LH (w/o Mirror Heater)	90980–11587
M 2	Mirror Heater RH (w/ Mirror Heater)	82824–50170
	Mirror Heater RH (w/o Mirror Heater)	90980–11587
	Remote Control Mirror RH (w/ Mirror Heater)	82824–50170
	Remote Control Mirror RH (w/o Mirror Heater)	90980–11587
M 3	Moon Roof Control Relay	90980–10799
	Moon Roof Control SW	
M 4	Moon Roof Limit SW	90980–11011
	Moon Roof Motor	
N 1	Noise Filter (1AZ–FE)	90980–11019
	Noise Filter (2AZ–FE)	90980–10843
O 1	Oil Pressure SW	90980–11363
O 2	O/D Main SW	90980–10824
P 1	Power Steering Oil Pressure SW	90980–11428
P 2	Pressure SW	90980–10943
P 3	Parking Brake SW	90980–12340

Note: Not all of the above part numbers of the connector are established for the supply.

Code	Part Name	Part Number
P 4	Power Point Relay	82660–20340
P 5	PTC Heater	90980–10956
P 6	PTC Heater Amplifier	90980–10807
P 7	Personal Light	82824–52040
P 8	Power Outlet	90980–10859
P 9	Power Window Control SW Rear LH	90980–11947
P10	Power Window Control SW Rear RH	
P11	Power Window Motor Front LH	90980–12344
P12	Power Window Motor Front RH	
P13	Power Window Motor Rear LH	
P14	Power Window Motor Rear RH	
P15	Pretensioner LH	90980–12253
P16	Pretensioner RH	
R 1	Radiator Fan Motor	90980–10928
R 2	Rear Washer Motor	90980–11250
R 3	Radar Sensor	90980–11013
R 4	Radio and Player with Display	90980–10819
R 5	Radio and Player with Display	90980–10803
R 6	Radio and Player	90980–10997
	Radio and Player with Display	
R 7	Radio and Player	90980–10996
	Radio and Player with Display	
R 8	Rear Heater Blower Motor	90980–10795
R 9	Rear Heater Relay	82660–20340
R10	Rear Heater Relay (HI)	
R11	Rear Heater SW	90980–10797
R12	Remote Control Mirror SW	90980–11657
R13	Rear Blower Motor	90980–10916
R14	Rear Combination Light LH	90980–10908
R15	Rear Combination Light LH	90980–11399
R16	Rear Combination Light RH	90980–10908
R17	Rear Combination Light RH	90980–11399
R18	Rear Cooler Relay	82660–37070
R19	Rear Cooler Resistor	90980–10976
R20	Rear Cooler SW	
R21	Rear Door Speaker LH	82824–52040
R22	Rear Door Speaker RH	
R23	Rear Turn Signal Light LH	90980–10906
R24	Rear Turn Signal Light RH	
R25	Rear Window Defogger	90980–12340
R26	Rear Window Defogger	
R27	Rear Wiper Motor	90980–11296
	Rear Wiper Relay	
R28	Radio and Player with Display	90980–10997
R29	Radio and Player with Display	90980–10996
R30	Radio and Player with Display	90980–11909

Code	Part Name	Part Number
R31	Radio and Player with Display	90980–11923
R32	Radio and Player with Display	90980–12259
R33	Radio and Player with Display	90980–11533
S 1	Skid Control ECU with Actuator (w/ VSC)	90980–12297
	Skid Control ECU with Actuator (w/o VSC)	90980–12020
S 2	Speed Sensor Front LH	90980–11002
S 3	Speed Sensor Front RH	
S 4	Starter	90980–11400
S 5	Starter (A/T)	90980–09506
	Starter (M/T 1AZ–FE)	90980–09689
	Starter (M/T 1CD–FTV)	90980–09507
S 6	Suction Control Valve No.1	90980–11285
S 7	Suction Control Valve No.2	90980–11284
S 8	Seat Heater LH	90980–11296
S 9	Seat Heater RH	
S10	Seat Heater SW LH	90980–10797
S11	Seat Heater SW RH	90980–10996
S12	Short Connector	90980–10825
S13	Short Connector	90980–10824
S14	Short Connector	90980–12158
S15	Short Connector	90980–11920
S16	Short Connector	90980–12158
S17	Short Connector	90980–11920
S18	Short Connector	90980–10825
S19	Short Connector	90980–10824
S22	Short Connector	90980–12158
S23	Short Connector	90980–11920
S24	Short Connector	90980–12158
S25	Short Connector	90980–11920
S26	Short Connector	90980–10870
S27	Short Connector	90980–10871
S28	Short Connector	90980–10870
S29	Short Connector	90980–10871
S30	Short Connector	90980–12158
S31	Short Connector	90980–11920
S32	Short Connector	90980–12172
S33	Short Connector	90980–11922
S34	Short Connector	90980–12172
S35	Short Connector	90980–11922
S36	Side Airbag Squib LH	90980–11864
S37	Side Airbag Squib RH	90980–11854
S38	Stop Light SW	90980–11118
S39	Side Airbag Sensor LH	90980–11857
S40	Side Airbag Sensor RH	
S41	Speed Sensor Rear LH	90980–11060

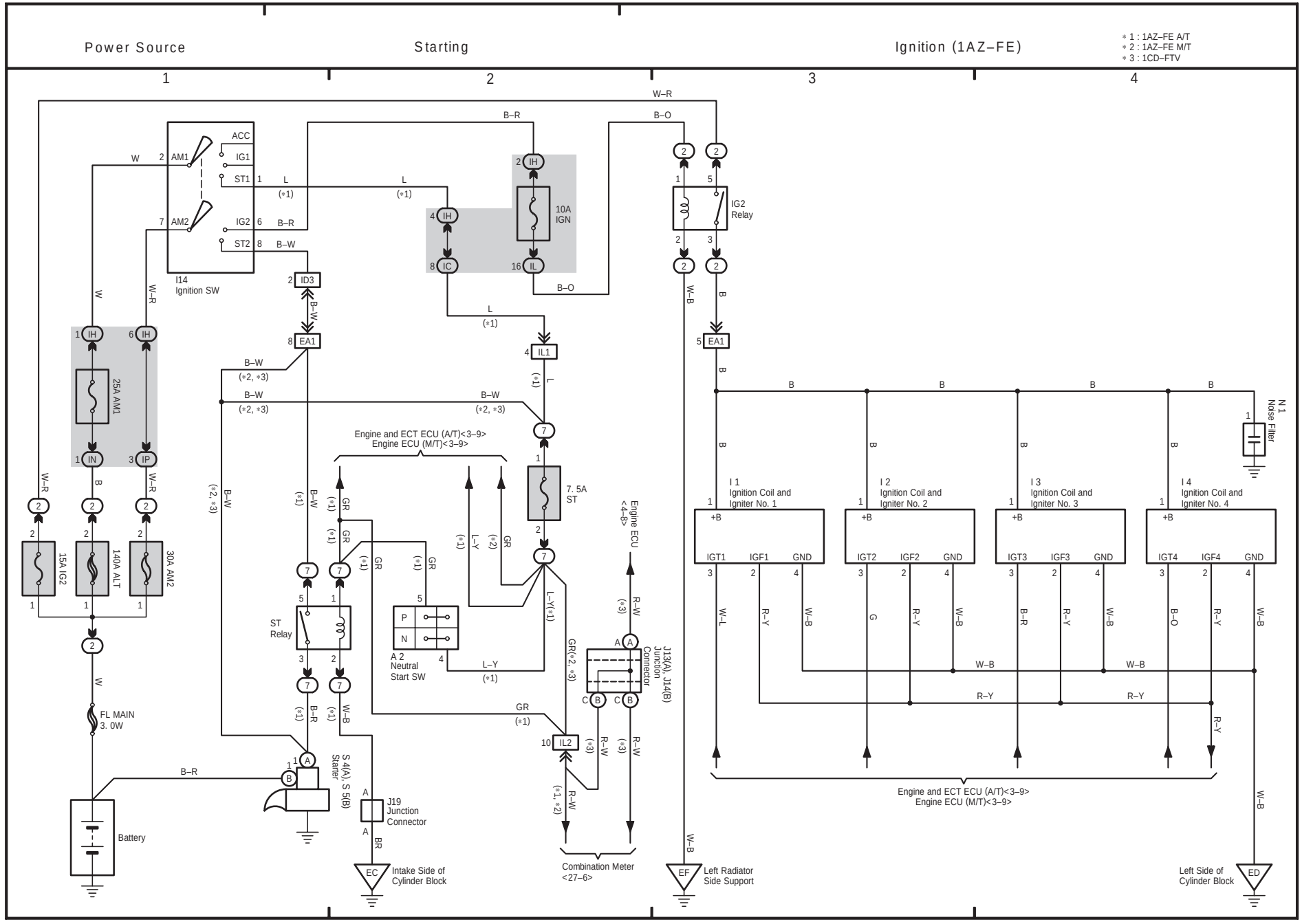
G PART NUMBER OF CONNECTORS

Code	Part Name	Part Number
S42	Speed Sensor Rear RH	90980–10859
S43	Short Connector	90980–10870
S44	Short Connector	90980–10871
S45	Short Connector	90980–11920
S46	Short Connector	90980–12158
S47	Short Connector	90980–11922
S48	Short Connector	90980–11923
S49	Short Connector	90980–10870
S50	Short Connector	90980–10871
S51	Short Connector	90980–10870
S52	Short Connector	90980–10871
S53	Steering Sensor	82824–45030
T 2	Throttle Position SW	90980–11038
T 3	Turbine Speed Sensor	90980–11156
T 4	Turbo Pressure Sensor	90980–10845
T 5	Theft Deterrent ECU	90980–11392
T 6	Theft Deterrent ECU	90980–11424
T 8	Transponder Key Computer	90980–12173
T 9	Turn Signal Flasher Relay	90980–10799
T10	TVSS ECU	90980–11971
T11	Theft Deterrent Siren (LHD)	90980–10988
	Theft Deterrent Siren (RHD)	90980–10942
T12	Tweeter LH	90980–10915
T13	Tweeter RH	
T14	Throttle Control Motor	90980–11858
	Throttle Position Sensor	
T15	Television Camera ECU	90980–12169
T16	Television Camera ECU	90980–10997
T17	TRC OFF SW	90980–10933
T18	Television Camera	90980–12211
U 1	Unlock Warning SW	90980–10860
V 1	VRV (EGR)	90980–11162
V 2	VSV (EVAP)	90980–11156
V 3	VSV (Turbo Pressure Sensor)	90980–11149
V 4	Vanity Light LH	90980–10621
V 5	Vanity Light RH	
V 6	VSC Warning Buzzer	90980–10906
W 1	Water Temp. Sensor (Except 1CD–FTV)	90980–10735
	Water Temp. Sensor (1CD–FTV)	90980–10737
W 2	Water Temp. SW	90980–11235
W 3	Wireless Door Lock Control Receiver	90980–11909
Y 1	Yaw Rate Sensor	90980–11904

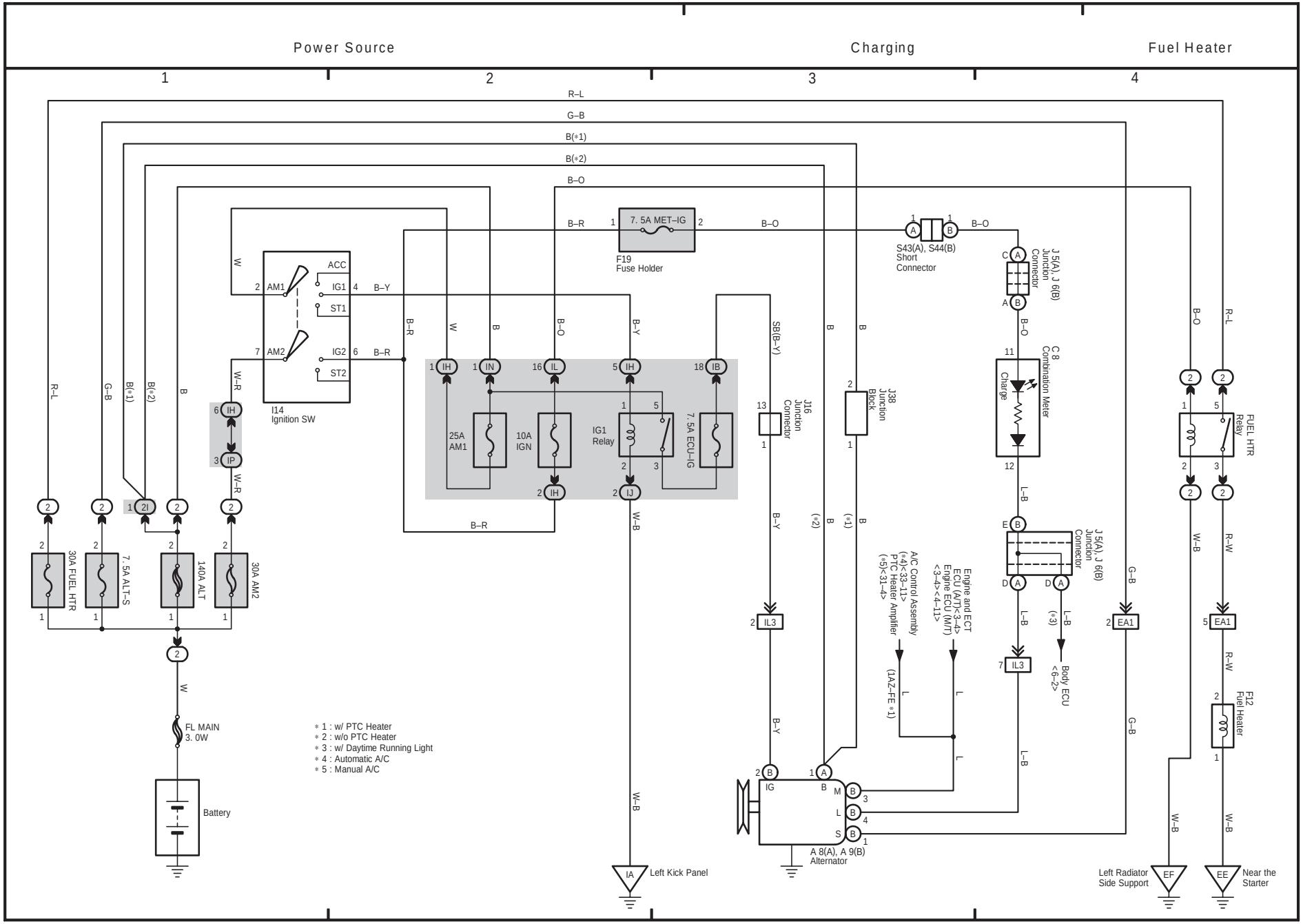
Code	Part Name	Part Number

Code	Part Name	Part Number	Code	Part Name	Part Number

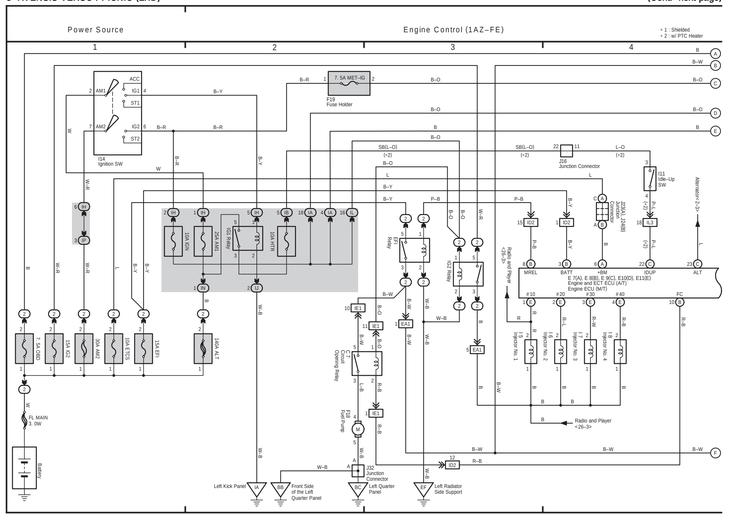
1 AVENSIS VERSO / PICNIC (LHD)



2 AVENSIS VERSO / PICNIC (LHD)



H

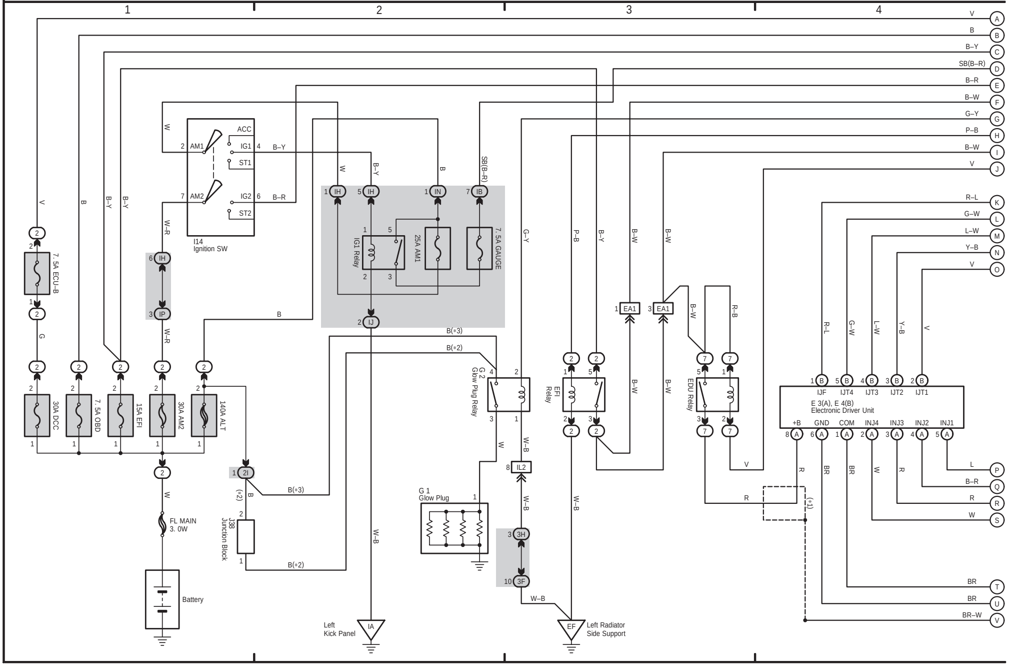

Power Source
Engine Control (1AZ–FE)
1
2
3
4
* 1 : Shielded
* 2 : w/ PTC Heater
ACC
IG1
ST1
IG2
ST2
AM1
AM2
IG1A
Ignition SW
7.5A MET–NO. 1
F29
Fuse Holder
SBL–O
SBL–OI
L–O
Z28
Junction Connector
Z1
Junction Connector
Z2
Junction Connector
Z3
Junction Connector
Z4
Junction Connector
Z5
Junction Connector
Z6
Junction Connector
Z7
Junction Connector
Z8
Junction Connector
Z9
Junction Connector
Z10
Junction Connector
Z11
Junction Connector
Z12
Junction Connector
Z13
Junction Connector

4 AVENSIS VERSO / PICNIC (LHD)

(Cont. next page)

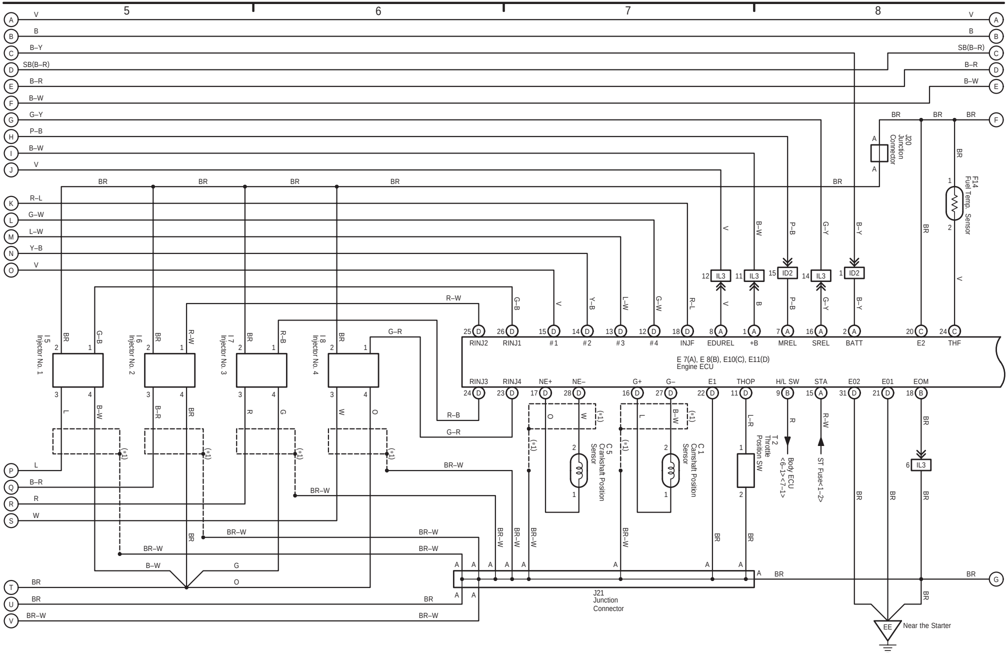
Power Source | Glow Plug | Engine Control (1CD–FTV)

∗ 1 : Shielded
∗ 2 : w/ PTC Heater
∗ 3 : w/o PTC Heater

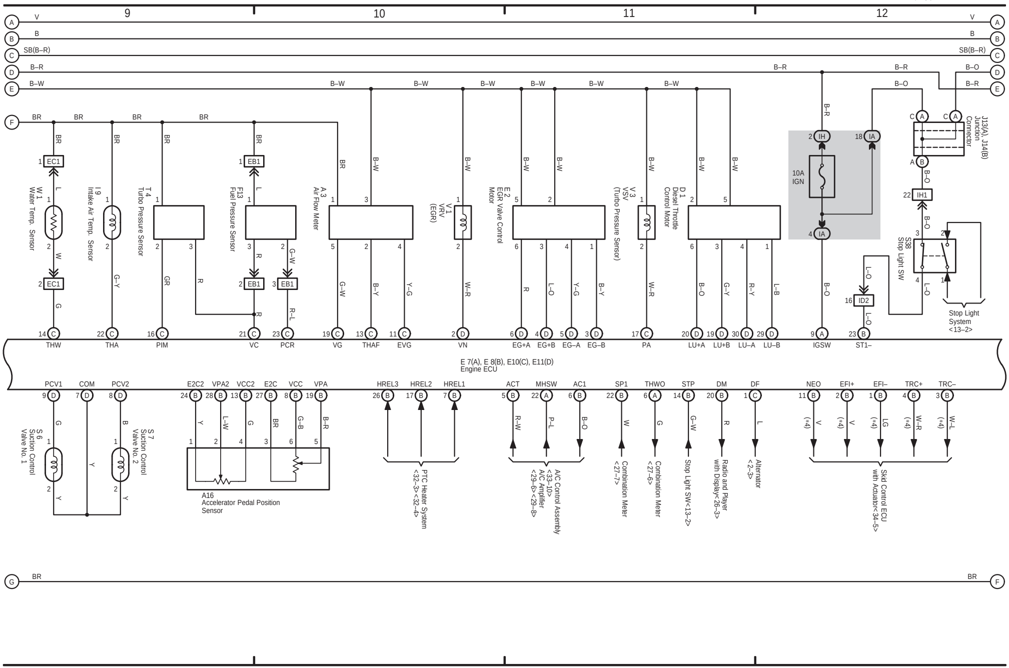

1
2
3
4
A V
B B
C B–Y
D SB(B–R)
E B–R
F B–W
G G–Y
H P–B
I B–W
J V
K R–L
L G–W
M L–W
N Y–B
O V
P L
Q B–R
R R
S W
T BR
U BR
V BR–W
I14 Ignition SW
ACC
AM1
IG1
ST1
AM2
IG2
ST2
7.5A ECU–B
30A DCC
7.5A OBD
15A EFI
30A AM2
140A ALT
FL MAIN 3.0W
Battery
IH
IP
2I
J38 Junction Block
IN
IB
IJ
IG1 Relay
25A AM1
7.5A GAUGE
Left Kick Panel
IA
G 2 Glow Plug Relay
G 1 Glow Plug
IL2
3H
3F
EF
Left Radiator Side Support
EFI Relay
EA1
EDU Relay
E 3(A), E 4(B) Electronic Driver Unit
IJF
IJT4
IJT3
IJT2
IJT1
+B
GND
COM
INJ4
INJ3
INJ2
INJ1
B(∗3)
B(∗2)
(∗2)
(∗1)
W
W–R
W–B
G–Y
P–B
B–Y
B–W
R–B
R–L
G–W
L–W
Y–B
V
R
BR
G

Engine Control (1CD–FTV)

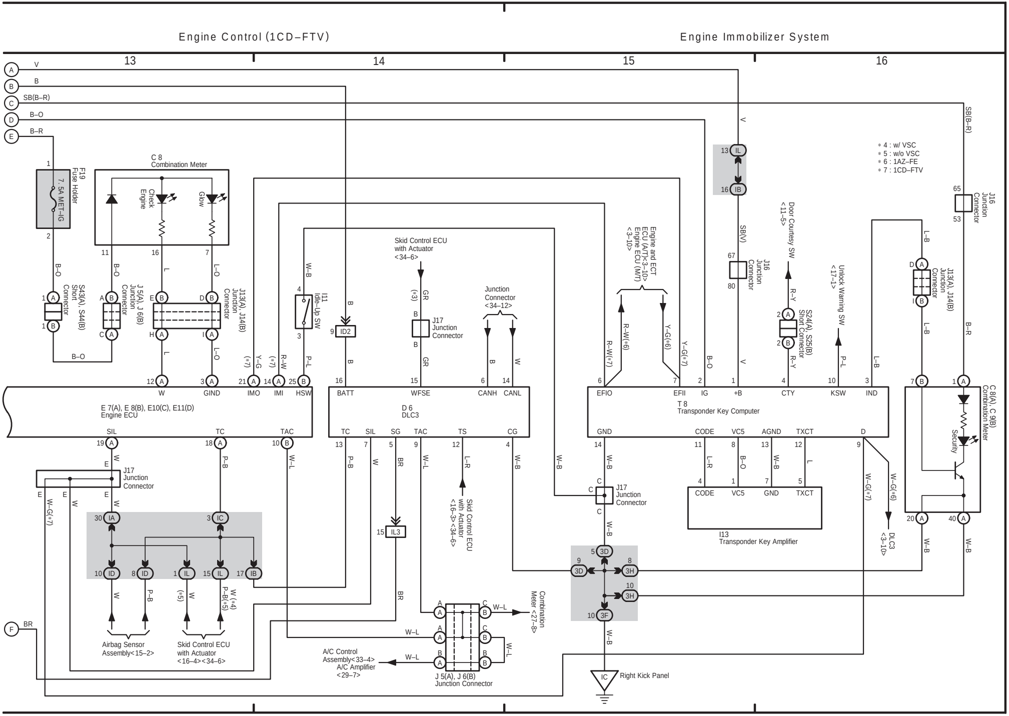
＊1 : Shielded


5
6
7
8
A
B
C
D
E
F
G
H
I
J
K
L
M
N
O
P
Q
R
S
T
U
V
V
B
B–Y
SB(B–R)
B–R
B–W
G–Y
P–B
R–L
G–W
L–W
Y–B
L
B–R
R
W
BR
BR–W
I 5 Injector No. 1
I 6 Injector No. 2
I 7 Injector No. 3
I 8 Injector No. 4
G–B
R–W
R–B
G–R
O
G
(＊1)
J20 Junction Connector
F14 Fuel Temp. Sensor
IL3
ID2
RINJ2
RINJ1
#1
#2
#3
#4
INJF
EDUREL
+B
MREL
SREL
BATT
E2
THF
E 7(A), E 8(B), E10(C), E11(D) Engine ECU
RINJ3
RINJ4
NE+
NE–
G+
G–
E1
THOP
H/L SW
STA
E02
E01
EOM
C 5 Crankshaft Position Sensor
C 1 Camshaft Position Sensor
T 2 Throttle Position SW
L–R
Body ECU <6–1><7–1>
ST Fuse<1–2>
J21 Junction Connector
EE
Near the Starter

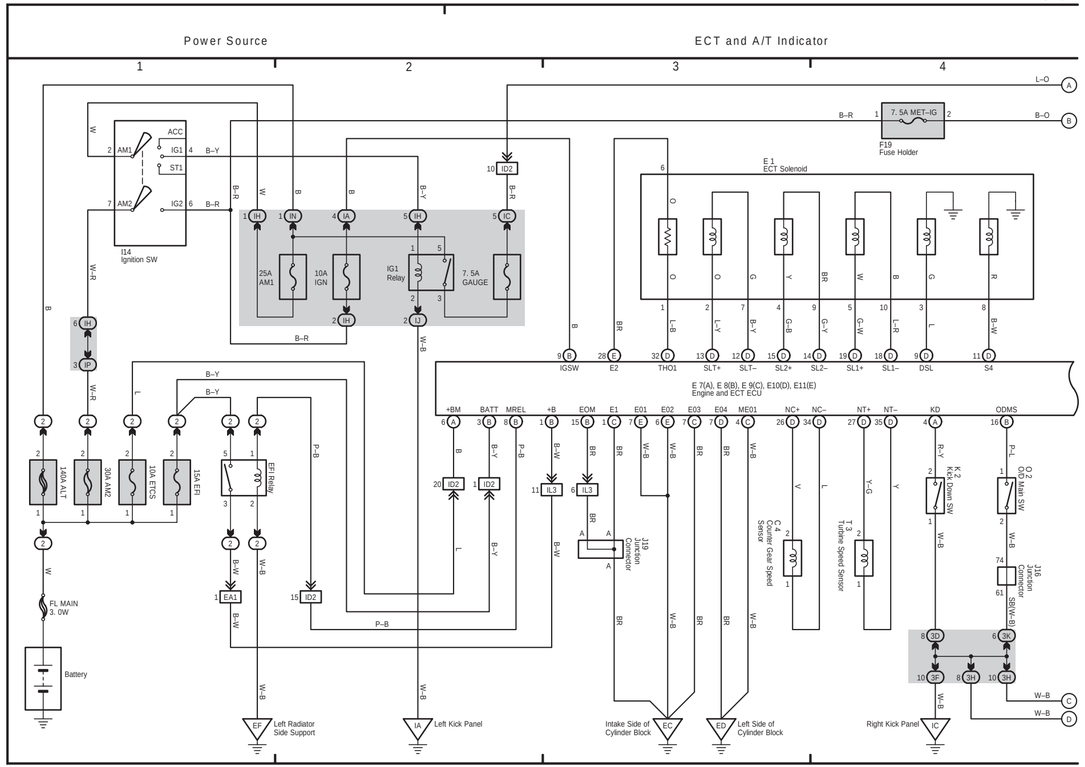
Engine Control (1CD–FTV)

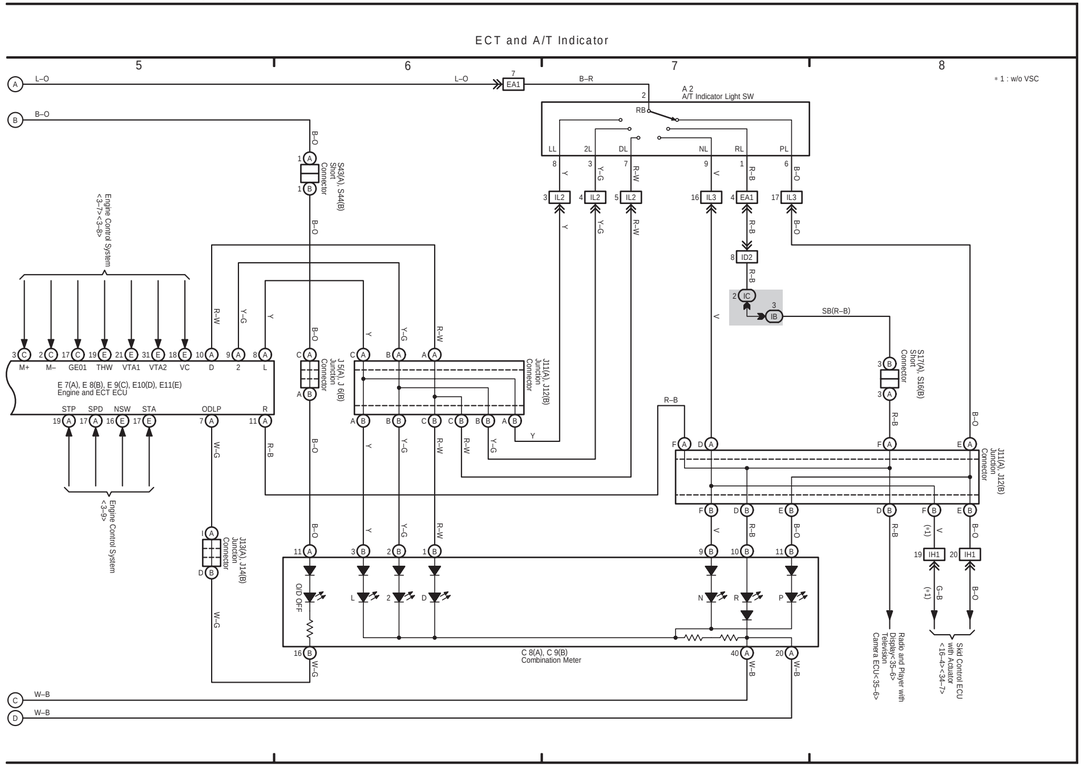

∗ 4 : w/ VSC
9
10
11
12
A V
B B
C SB(B–R)
D B–R
E B–W
F BR
G BR
B–R
B–O
W 1 Water Temp. Sensor
EC1
I 9 Intake Air Temp. Sensor
T 4 Turbo Pressure Sensor
F13 Fuel Pressure Sensor
EB1
A 3 Air Flow Meter
V 1 VRV (EGR)
E 2 EGR Valve Control Motor
V 3 VSV (Turbo Pressure Sensor)
D 1 Diesel Throttle Control Motor
10A IGN
IH
IA
J13(A), J14(B) Junction Connector
IH1
S38 Stop Light SW
ID2
Stop Light System <13–2>
THW
THA
PIM
VC
PCR
VG
THAF
EVG
VN
EG+A
EG+B
EG–A
EG–B
PA
LU+A
LU+B
LU–A
LU–B
IGSW
ST1–
E 7(A), E 8(B), E10(C), E11(D) Engine ECU
PCV1
COM
PCV2
E2C2
VPA2
VCC2
E2C
VCC
VPA
HREL3
HREL2
HREL1
ACT
MHSW
AC1
SP1
THWO
STP
DM
DF
NEO
EFI+
EFI–
TRC+
TRC–
S 6 Suction Control Valve No. 1
S 7 Suction Control Valve No. 2
A16 Accelerator Pedal Position Sensor
PTC Heater System <32–3><32–4>
A/C Control Assembly <33–10>
A/C Amplifier <29–6><29–8>
Combination Meter <27–7>
Combination Meter <27–6>
Stop Light SW<13–2>
Radio and Player with Display<26–3>
Alternator <2–3>
Skid Control ECU with Actuator<34–5>
(∗4)

4 AVENSIS VERSO / PICNIC (LHD) (Cont' d)

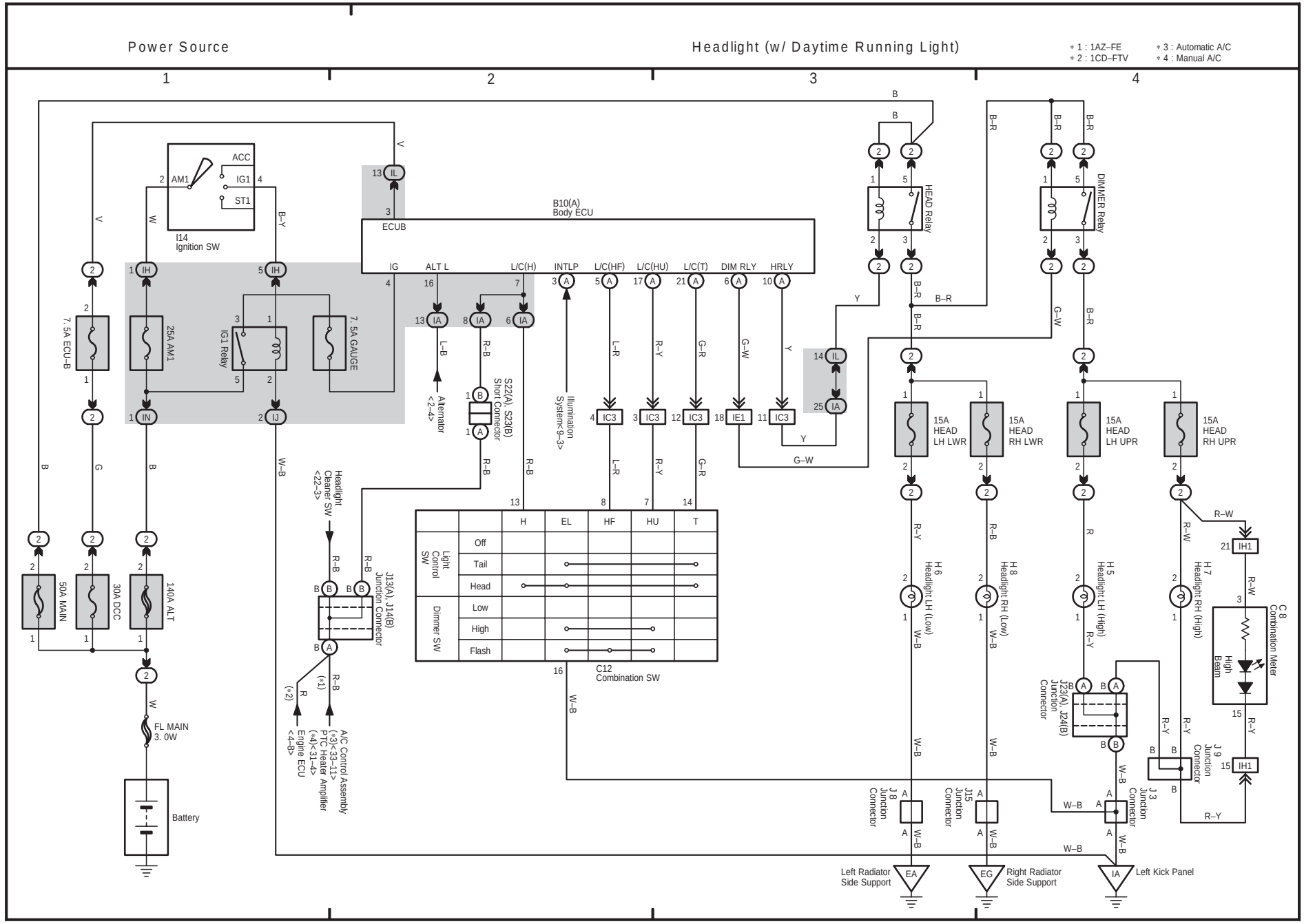

Engine Control (1CD–FTV)
Engine Immobilizer System
13
14
15
16
A V
B B
C SB(B–R)
D B–O
E B–R
F BR
F19 Fuse Holder
7. 5A MET–IG
C 8 Combination Meter
Check Engine
Glow
S43(A), S44(B) Short Connector
J 5(A), J 6(B) Junction Connector
J13(A), J14(B) Junction Connector
I11 Idle–Up SW
ID2
Skid Control ECU with Actuator <34–6>
J17 Junction Connector
Junction Connector <34–12>
Engine and ECT ECU (A/T)<3–10>
Engine ECU (M/T) <3–10>
J16 Junction Connector
Door Courtesy SW <11–5>
S24(A), S25(B) Short Connector
Unlock Warning SW <17–1>
∗ 4 : w/ VSC
∗ 5 : w/o VSC
∗ 6 : 1AZ–FE
∗ 7 : 1CD–FTV
E 7(A), E 8(B), E10(C), E11(D) Engine ECU
W GIND IMO IMI HSW
SIL TC TAC
D 6 DLC3
BATT WFSE CANH CANL
TC SIL SG TAC TS CG
T 8 Transponder Key Computer
EFIO EFII IG +B CTY KSW IND
GND CODE VC5 AGND TXCT D
I13 Transponder Key Amplifier
CODE VC5 GND TXCT
C 8(A), C 9(B) Combination Meter
Security
DLC3 <3–10>
IL3
Skid Control ECU with Actuator <16–3><34–6>
Airbag Sensor Assembly<15–2>
Skid Control ECU with Actuator <16–4><34–6>
A/C Control Assembly<33–4>
A/C Amplifier <29–7>
J 5(A), J 6(B) Junction Connector
Combination Meter <27–8>
Right Kick Panel
IC
IA IC ID IL IB 3D 3H 3F

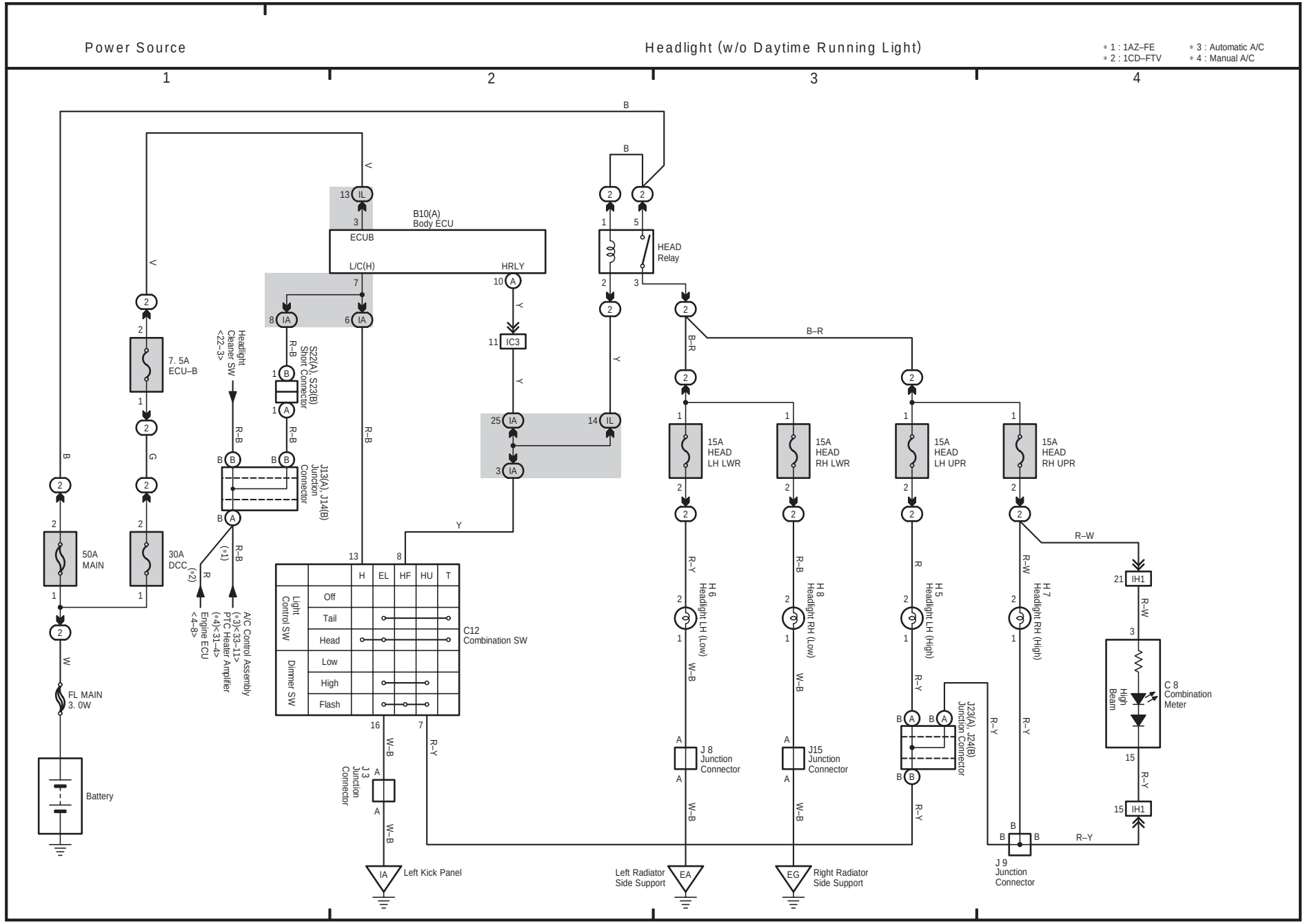
(Cont. next page)

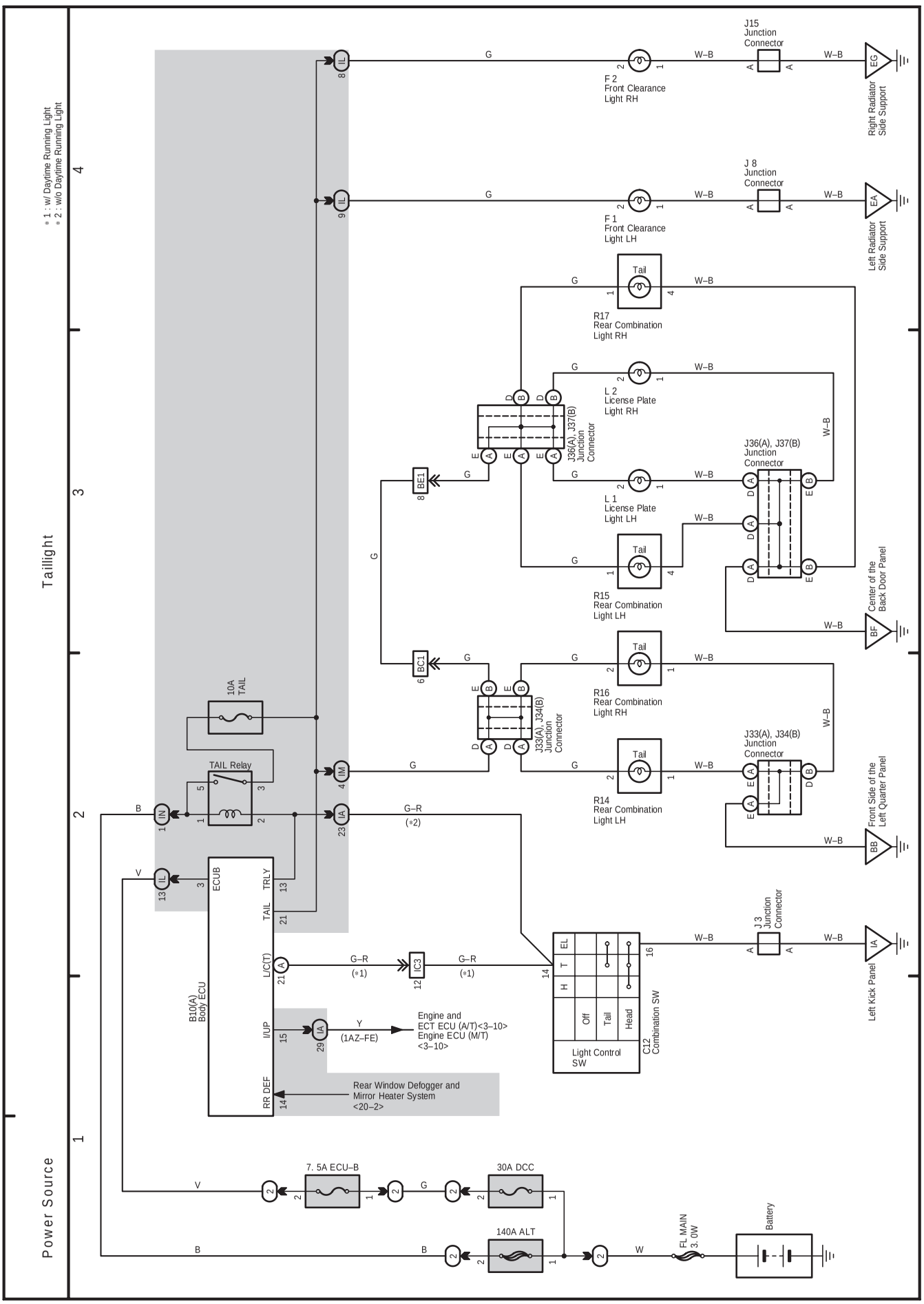




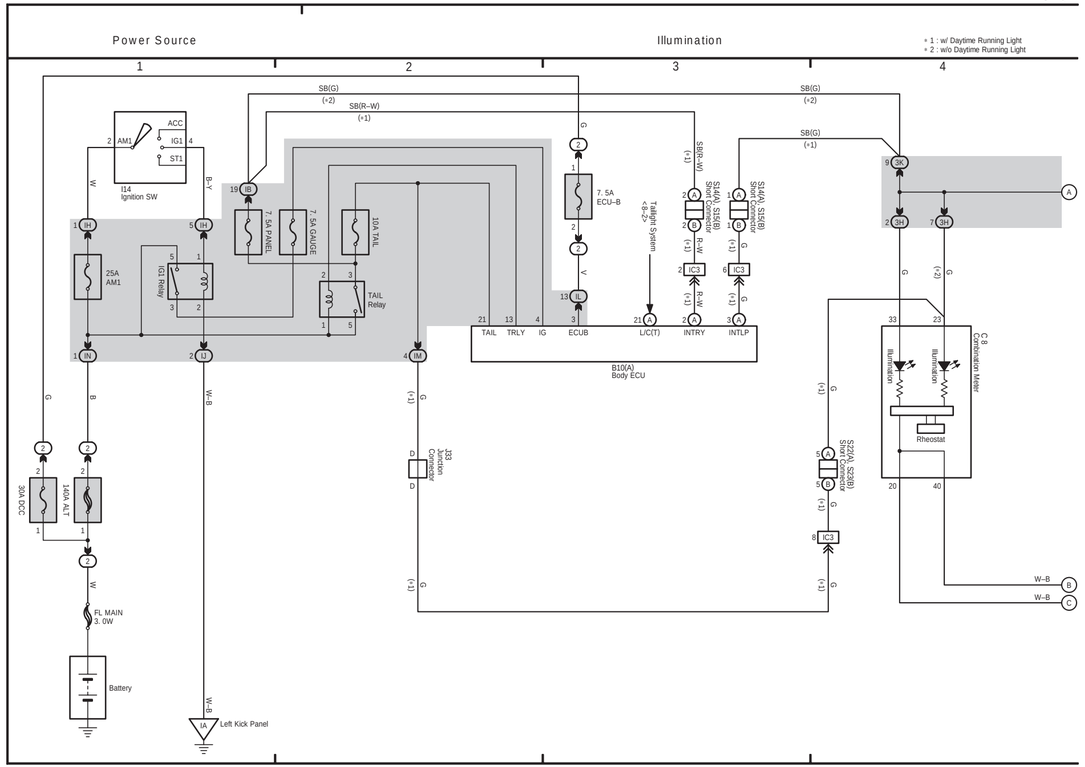
6 AVENSIS VERSO / PICNIC (LHD)

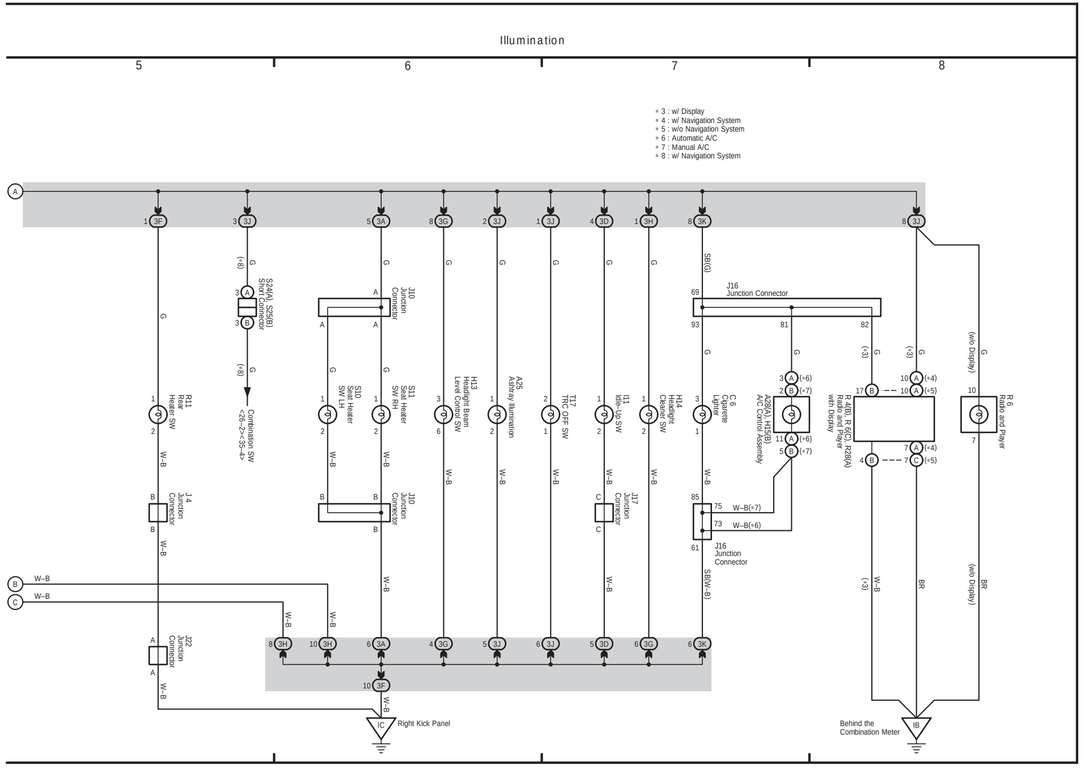



Power Source
Headlight (w/o Daytime Running Light)
1
2
3
4
* 1 : 1AZ–FE
* 2 : 1CD–FTV
* 3 : Automatic A/C
* 4 : Manual A/C
B10(A)
Body ECU
ECUB
L/C(H)
HRLY
HEAD
Relay
7. 5A
ECU–B
50A
MAIN
30A
DCC
(*2)
FL MAIN
3. 0W
Battery
Headlight
Cleaner SW
<22–3>
S22(A), S23(B)
Short Connector
J13(A), J14(B)
Junction
Connector
(*1)
Engine ECU
<4–8>
A/C Control Assembly
(*3)<33–11>
PTC Heater Amplifier
(*4)<31–4>
Light
Control SW
Dimmer SW
Off
Tail
Head
Low
High
Flash
H
EL
HF
HU
T
C12
Combination SW
J 3
Junction
Connector
Left Kick Panel
15A
HEAD
LH LWR
15A
HEAD
RH LWR
15A
HEAD
LH UPR
15A
HEAD
RH UPR
H 6
Headlight LH (Low)
H 8
Headlight RH (Low)
H 5
Headlight LH (High)
H 7
Headlight RH (High)
J 8
Junction
Connector
J15
Junction
Connector
J23(A), J24(B)
Junction Connector
J 9
Junction
Connector
Left Radiator
Side Support
Right Radiator
Side Support
C 8
Combination
Meter
High
Beam

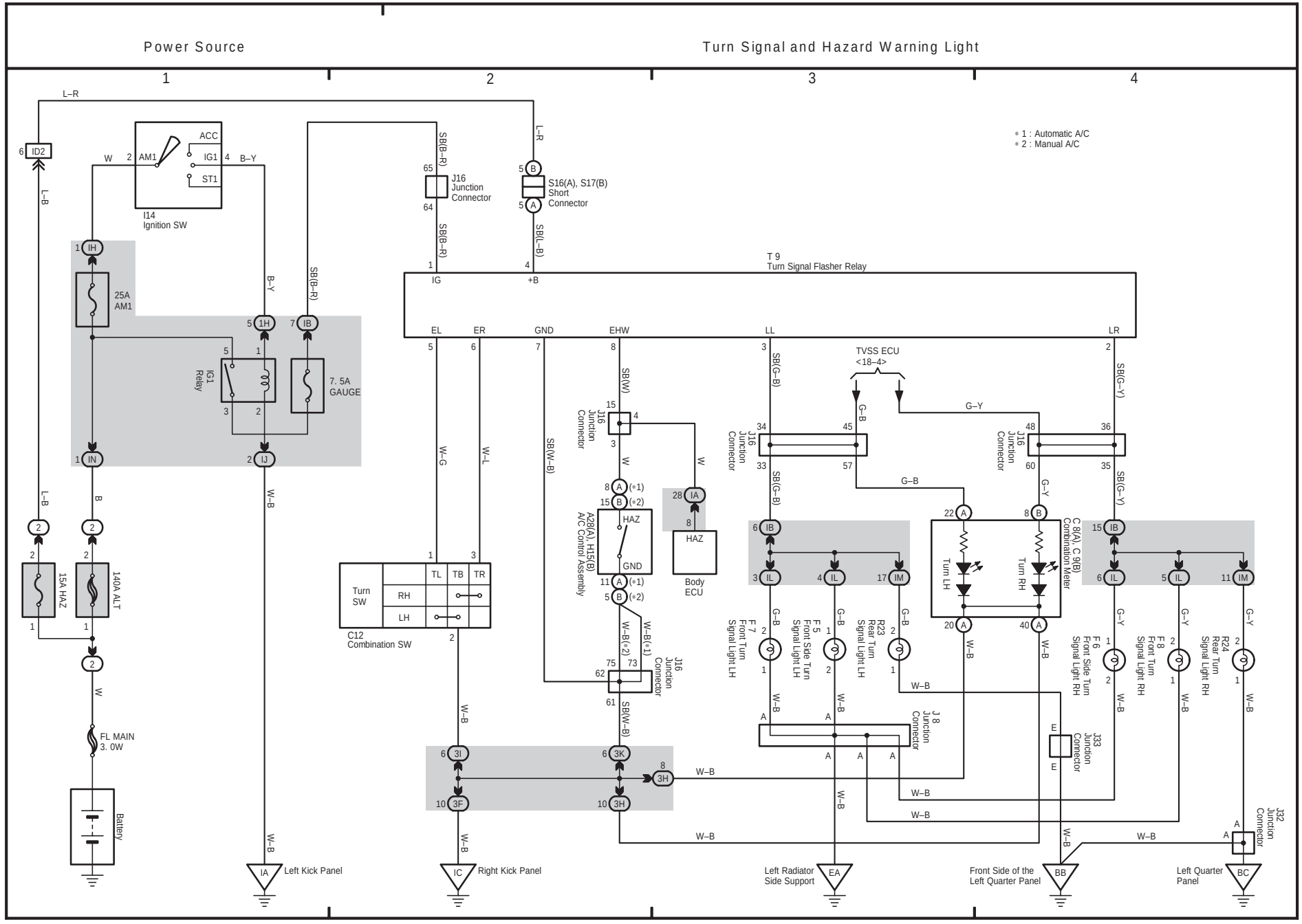

8 AVENSIS VERSO / PICNIC (LHD)
Power Source
Taillight
1
2
3
4
*1 : w/ Daytime Running Light
*2 : w/o Daytime Running Light
J15 Junction Connector
F 2 Front Clearance Light RH
Right Radiator Side Support
J 8 Junction Connector
F 1 Front Clearance Light LH
Left Radiator Side Support
Tail
R17 Rear Combination Light RH
L 2 License Plate Light RH
J36(A), J37(B) Junction Connector
L 1 License Plate Light LH
R15 Rear Combination Light LH
Center of the Back Door Panel
R16 Rear Combination Light RH
J33(A), J34(B) Junction Connector
R14 Rear Combination Light LH
Front Side of the Left Quarter Panel
10A TAIL
TAIL Relay
B10(A) Body ECU
ECUB
TRLY
TAIL
L/C(T)
I/UP
RR DEF
Engine and ECT ECU (A/T)<3–10> Engine ECU (M/T) <3–10>
(1AZ–FE)
Rear Window Defogger and Mirror Heater System <20–2>
Light Control SW
C12 Combination SW
J3 Junction Connector
Left Kick Panel
7. 5A ECU–B
30A DCC
140A ALT
FL MAIN 3. 0W
Battery

(Cont. next page)





10 AVENSIS VERSO / PICNIC (LHD)



11 AVENSIS VERSO / PICNIC (LHD)

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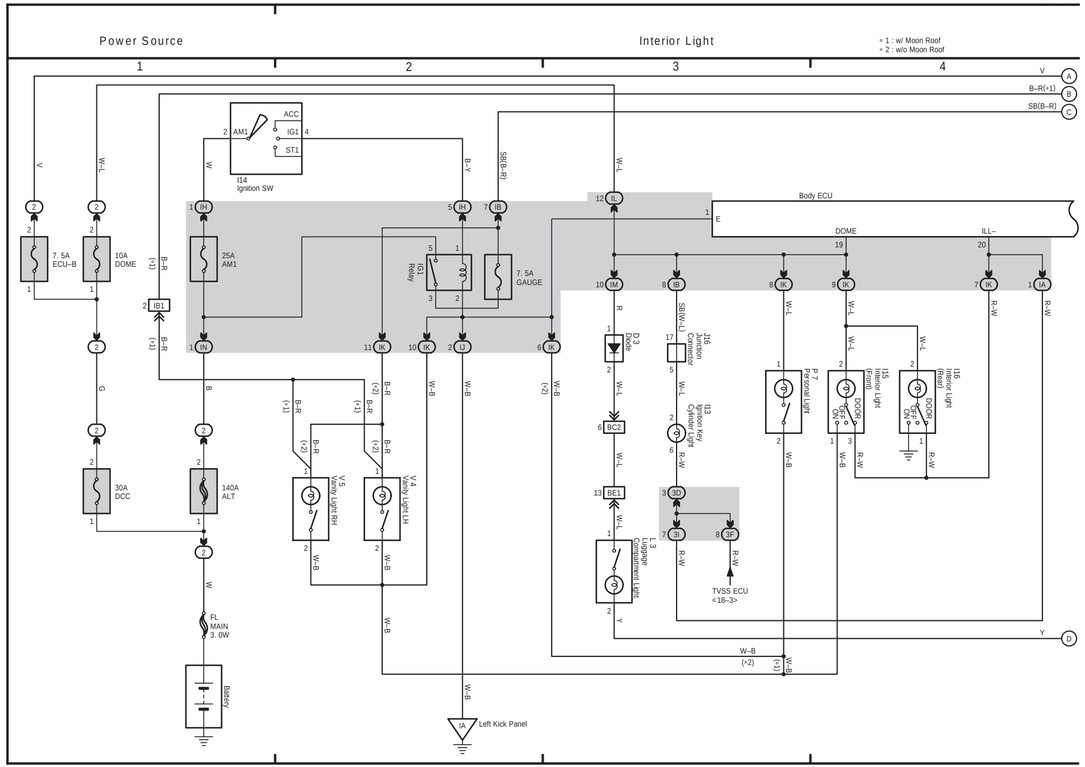
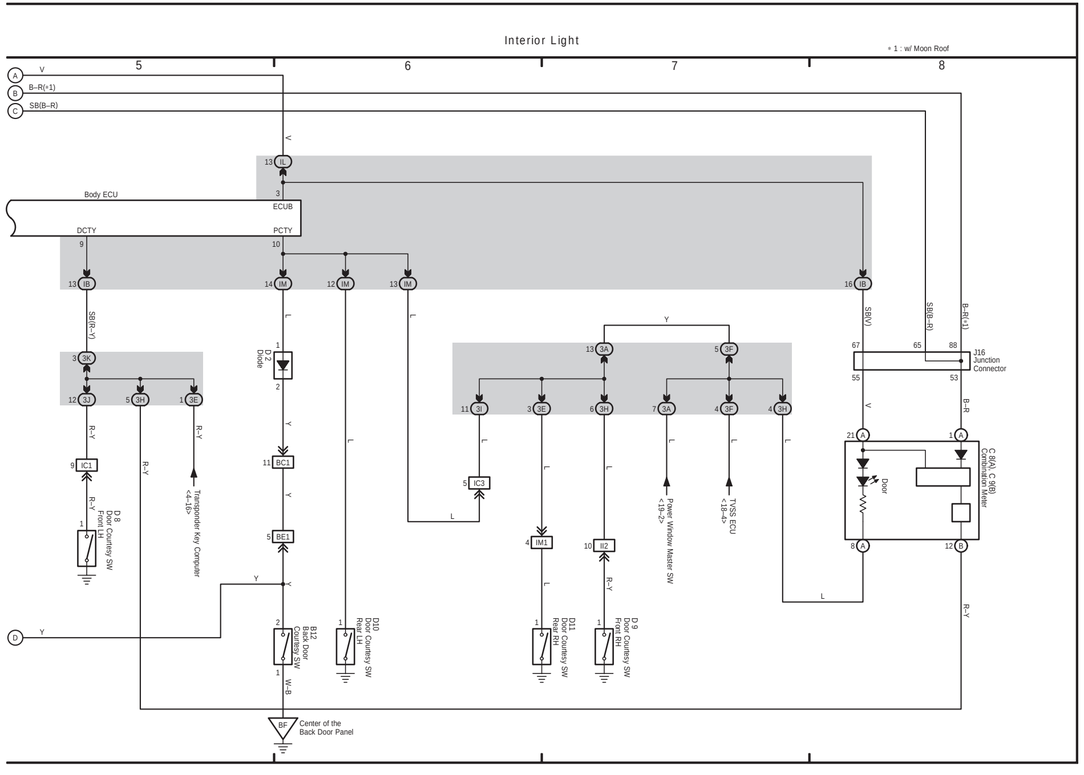
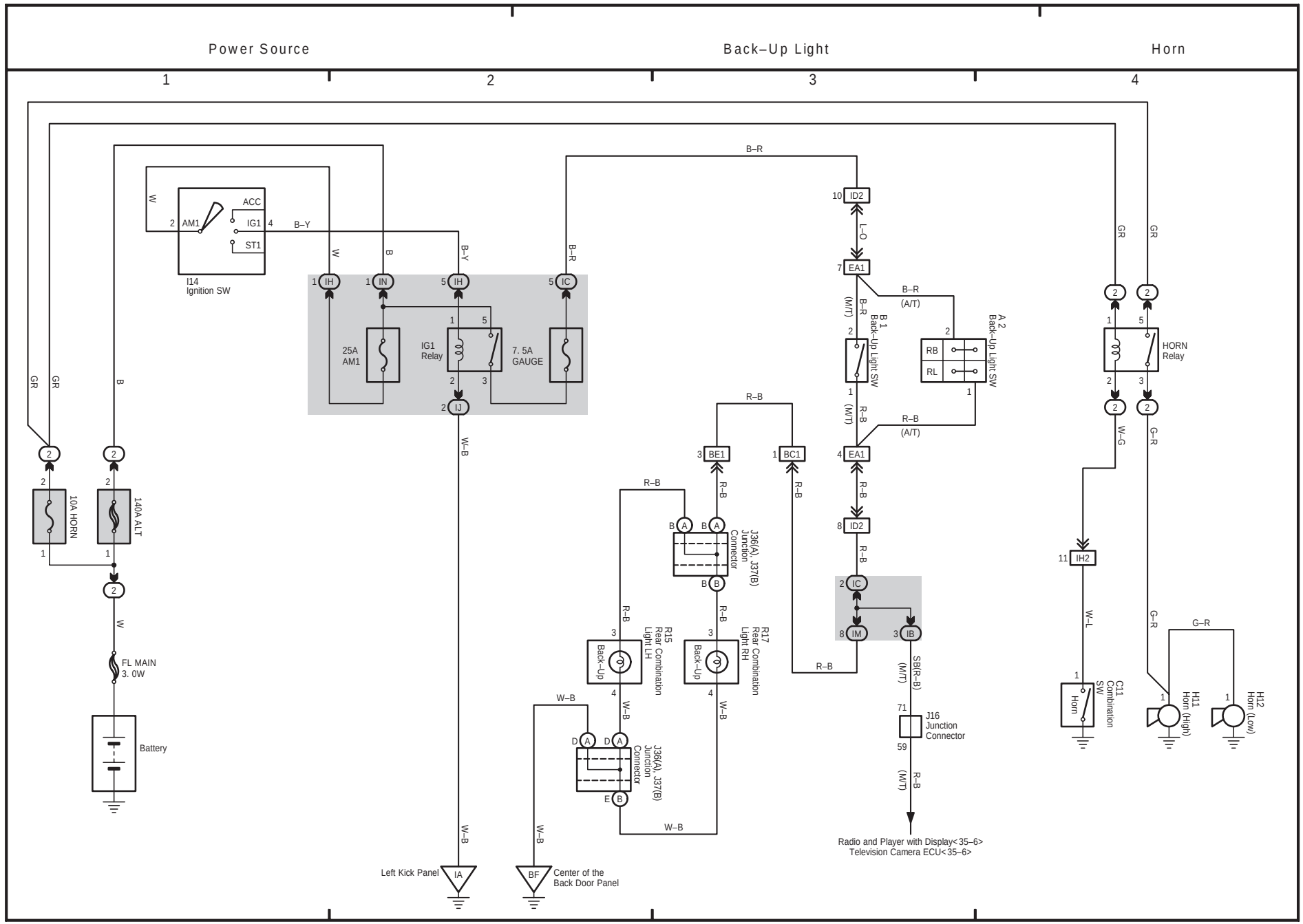
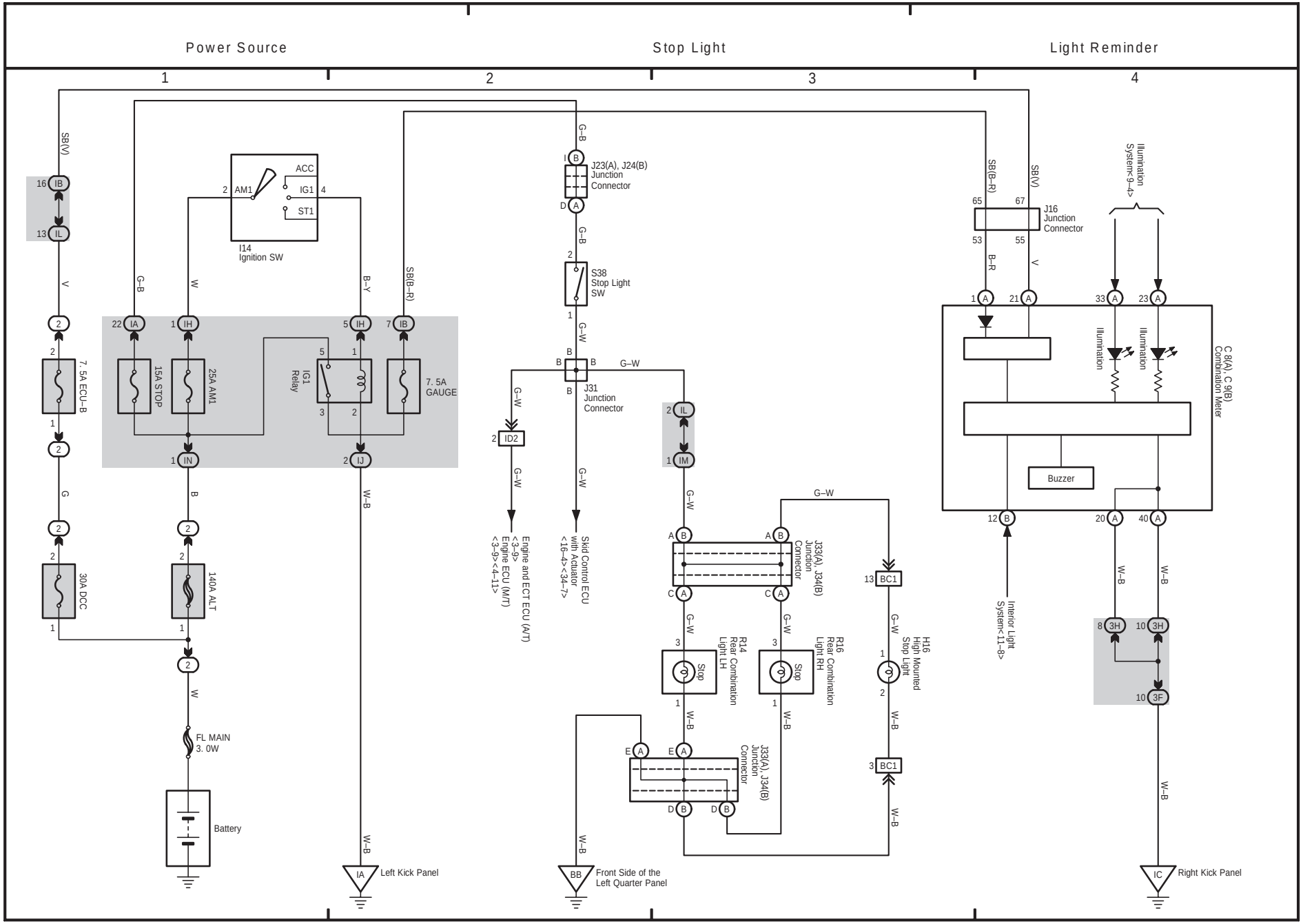


11 AVENSIS VERSO / PICNIC (LHD) (Cont' d)

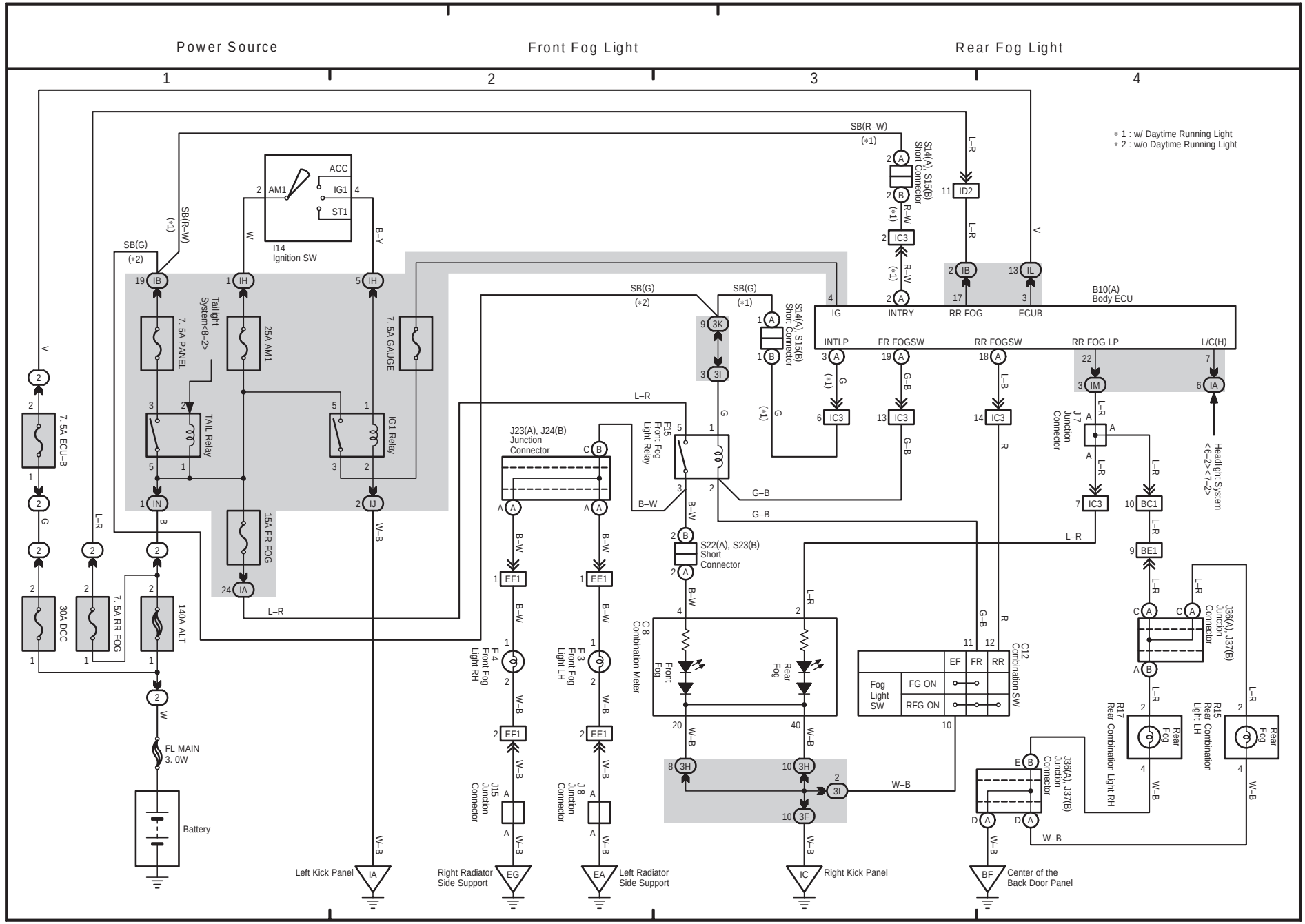


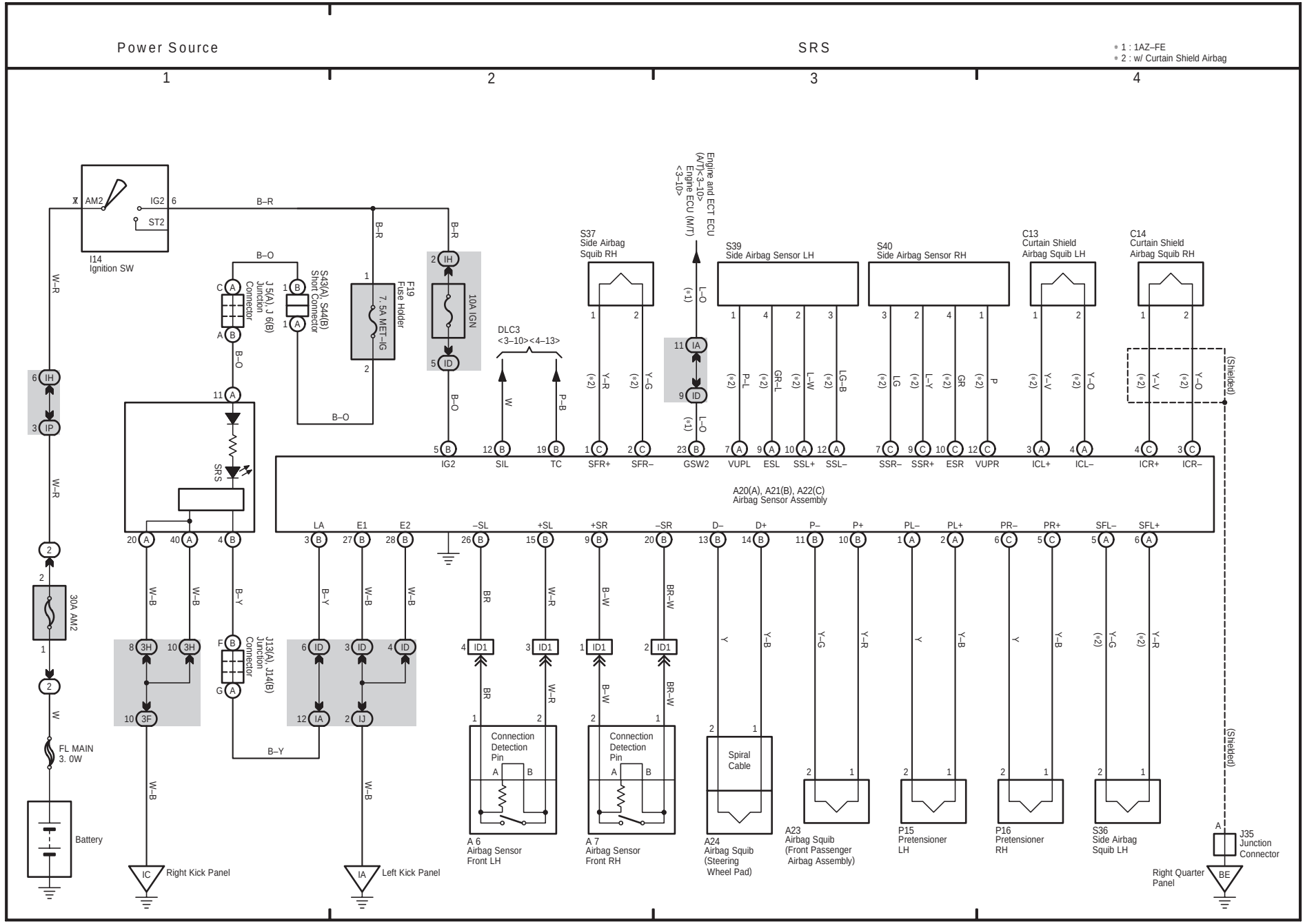
12 AVENSIS VERSO / PICNIC (LHD)



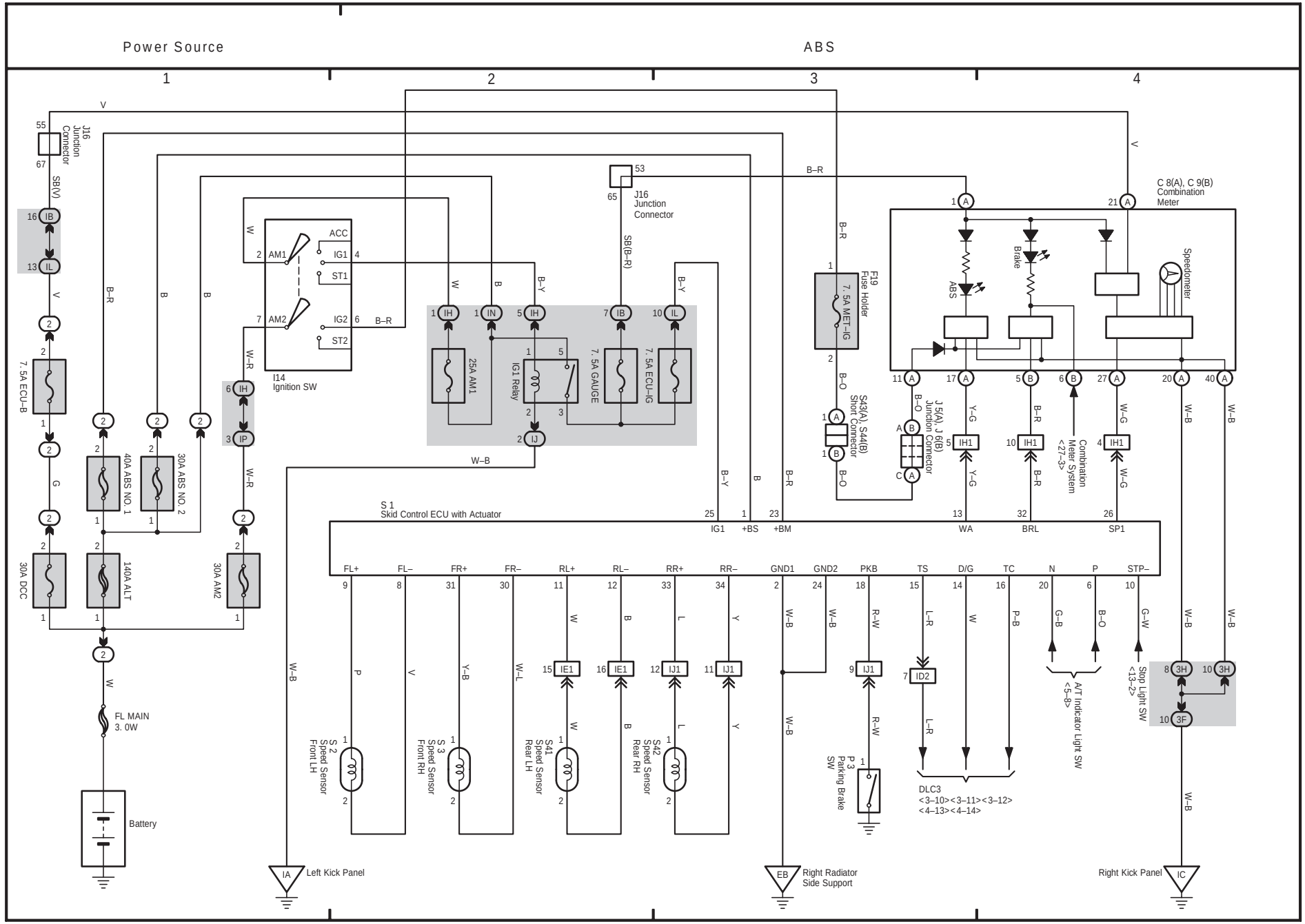

Power Source
Stop Light
Light Reminder
1
2
3
4
SB(V)
16 IB
13 IL
V
2
7. 5A ECU–B
1
2
G
2
30A DCC
1
2
W
FL MAIN
3. 0W
Battery
ACC
2 AM1
IG1 4
ST1
I14
Ignition SW
G–B
W
B–Y
SB(B–R)
22 IA
1 IH
5 IH
7 IB
15A STOP
25A AM1
IG1
Relay
7. 5A
GAUGE
1 IN
2 IJ
B
W–B
IA
Left Kick Panel
G–B
I B
J23(A), J24(B)
Junction
Connector
D A
G–B
2
S38
Stop Light
SW
1
G–W
B
B B
G–W
B
J31
Junction
Connector
G–W
2 ID2
G–W
Engine and ECT ECU (A/T)
<2–9>
Engine ECU (M/T)
<3–9><4–11>
G–W
Skid Control ECU
with Actuator
<16–4><34–7>
2 IL
1 IM
G–W
A B
A B
J33(A), J34(B)
Junction
Connector
C A
C A
G–W
3
Stop
R14
Rear Combination
Light LH
1
W–B
G–W
3
Stop
R16
Rear Combination
Light RH
1
W–B
E A
E A
J33(A), J34(B)
Junction
Connector
D B
D B
W–B
BB
Front Side of the
Left Quarter Panel
G–W
13 BC1
G–W
1
H16
High Mounted
Stop Light
2
W–B
3 BC1
W–B
SB(B–R)
SB(V)
65
67
J16
Junction
Connector
53
55
B–R
V
1 A
21 A
12 B
Interior Light
System<11–8>
Illumination
System<9–4>
33 A
23 A
Illumination
Illumination
C 8(A), C 9(B)
Combination Meter
Buzzer
20 A
40 A
W–B
W–B
8 3H
10 3H
10 3F
W–B
IC
Right Kick Panel

14 AVENSIS VERSO / PICNIC (LHD)




Power Source
SRS
1
2
3
4
* 1 : 1AZ–FE
* 2 : w/ Curtain Shield Airbag
I14
Ignition SW
AM2
IG2
ST2
J 5(A), J 6(B)
Junction Connector
S43(A), S44(B)
Short Connector
F19
Fuse Holder
7. 5A MET–IG
10A IGN
DLC3
<3–10><4–13>
Engine and ECT ECU (A/T)<3–10>
Engine ECU (M/T)<3–10>
S37
Side Airbag Squib RH
S39
Side Airbag Sensor LH
S40
Side Airbag Sensor RH
C13
Curtain Shield Airbag Squib LH
C14
Curtain Shield Airbag Squib RH
IG2
SIL
TC
SFR+
SFR–
GSW2
VUPL
ESL
SSL+
SSL–
SSR–
SSR+
ESR
VUPR
ICL+
ICL–
ICR+
ICR–
A20(A), A21(B), A22(C)
Airbag Sensor Assembly
LA
E1
E2
–SL
+SL
+SR
–SR
D–
D+
P–
P+
PL–
PL+
PR–
PR+
SFL–
SFL+
SRS
30A AM2
FL MAIN
3. 0W
Battery
J13(A), J14(B)
Junction Connector
Connection Detection Pin
Spiral Cable
A 6
Airbag Sensor Front LH
A 7
Airbag Sensor Front RH
A24
Airbag Squib (Steering Wheel Pad)
A23
Airbag Squib (Front Passenger Airbag Assembly)
P15
Pretensioner LH
P16
Pretensioner RH
S36
Side Airbag Squib LH
J35
Junction Connector
Right Kick Panel
Left Kick Panel
Right Quarter Panel
(Shielded)

16 AVENSIS VERSO / PICNIC (LHD)



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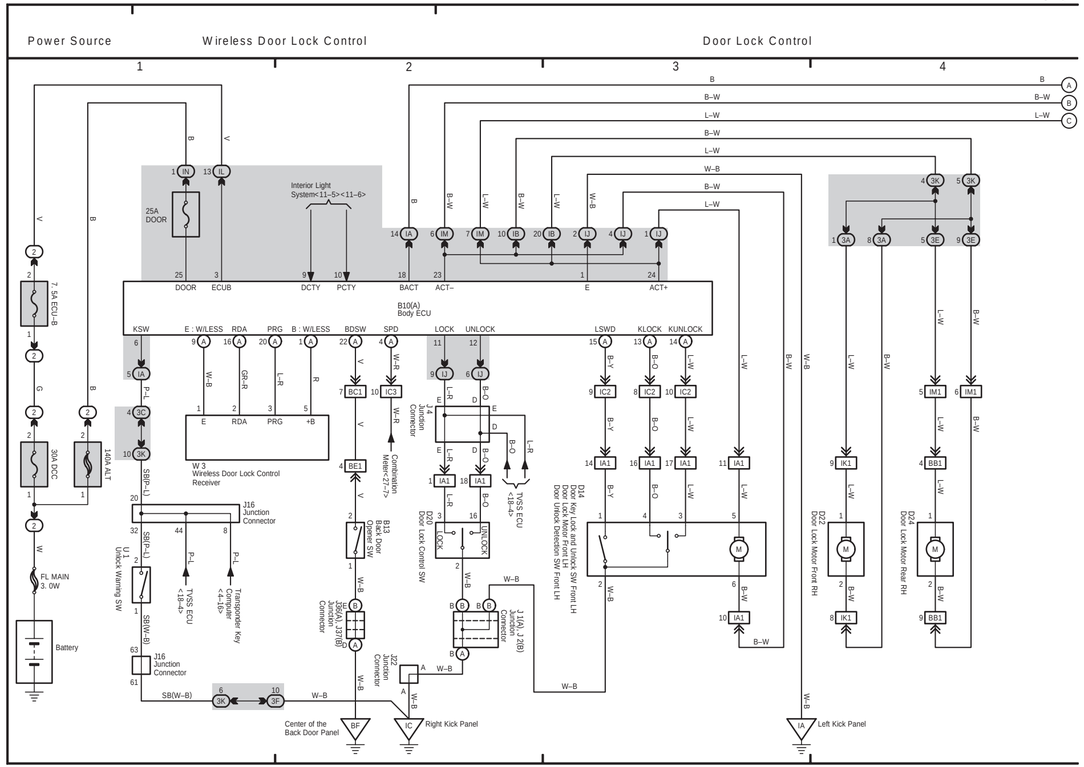
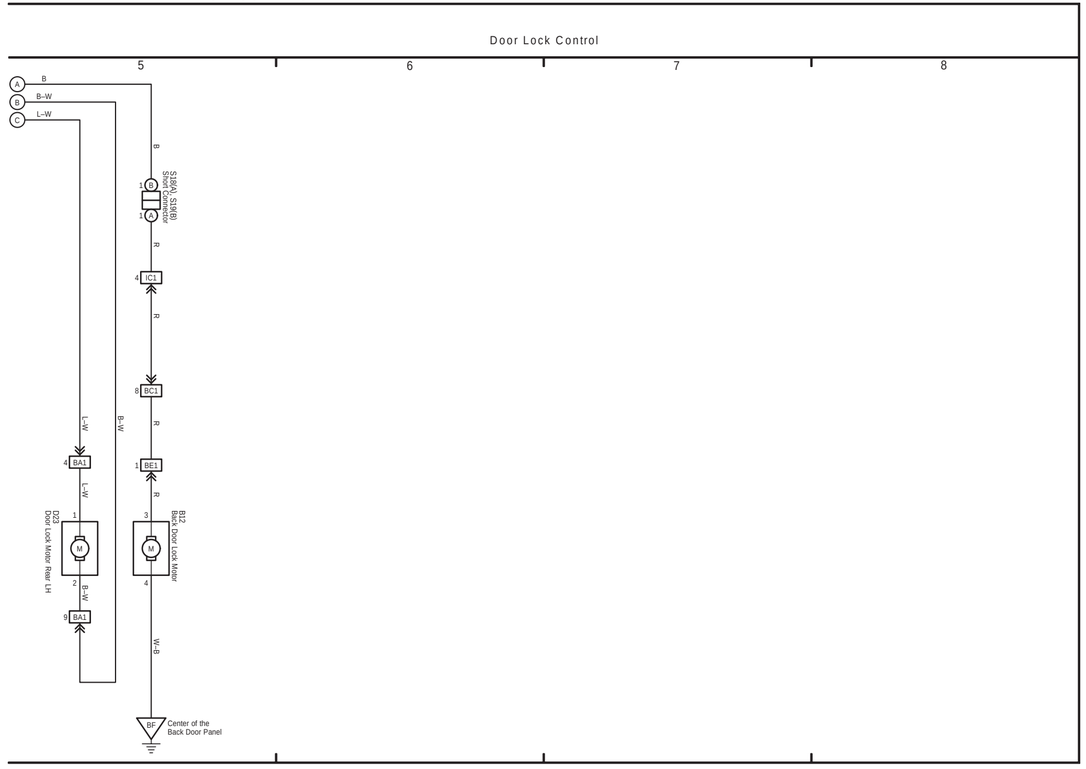
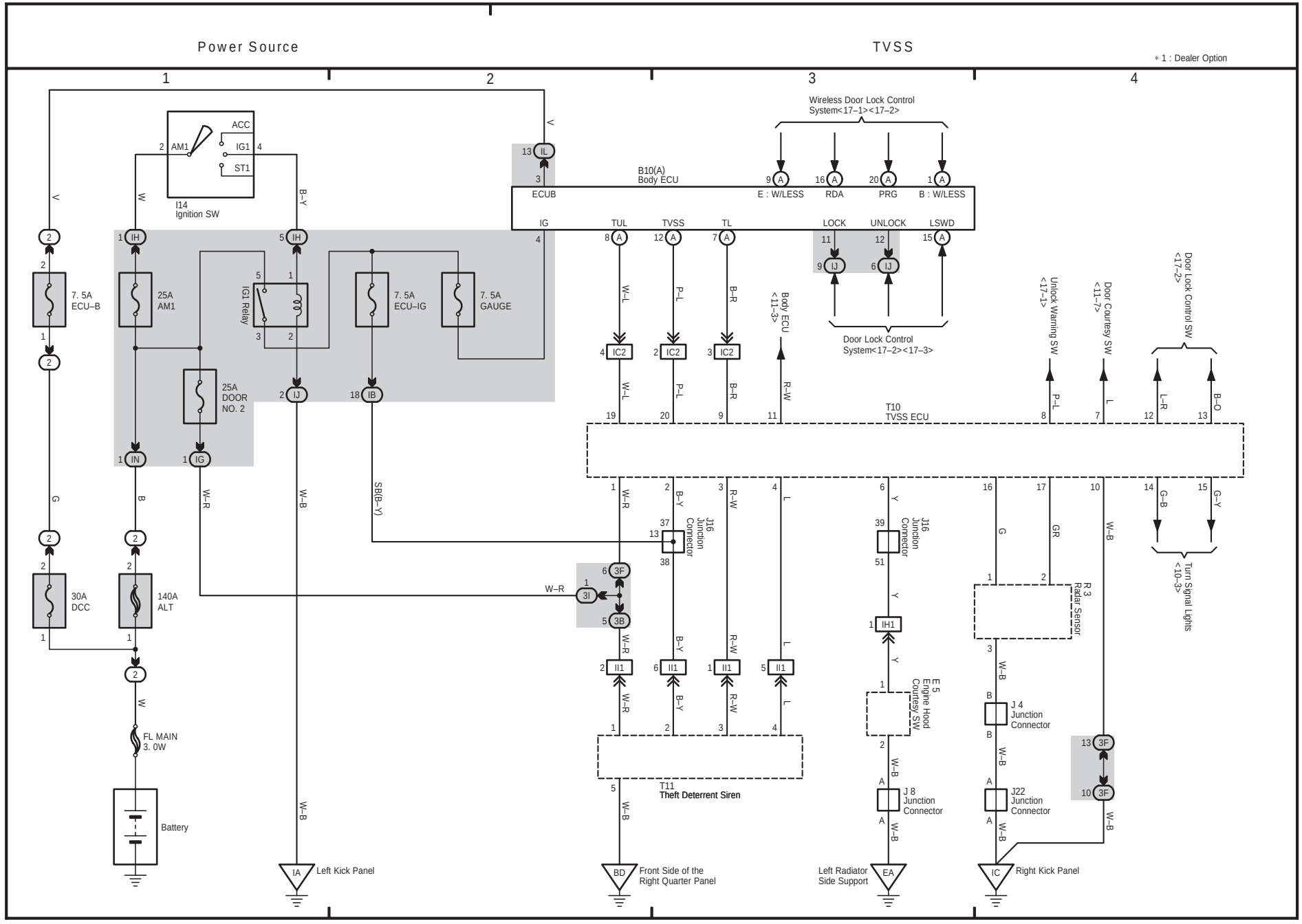


H OVERALL ELECTRICAL WIRING DIAGRAM



18 AVENSIS VERSO / PICNIC (LHD)



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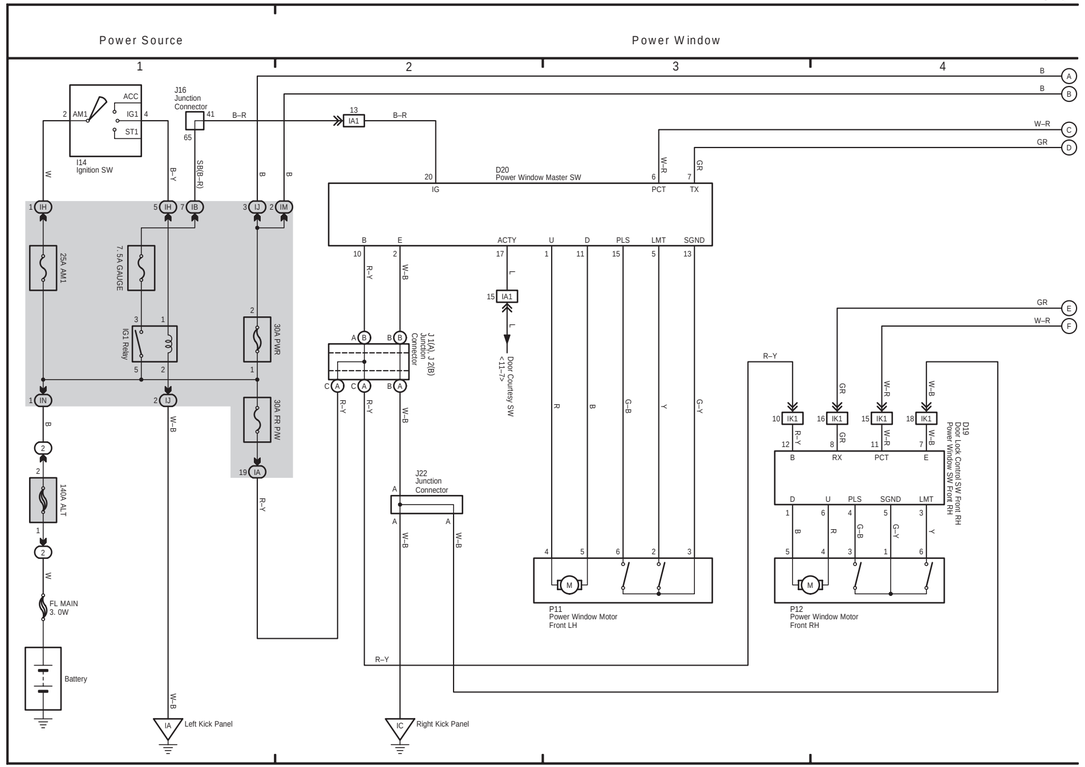
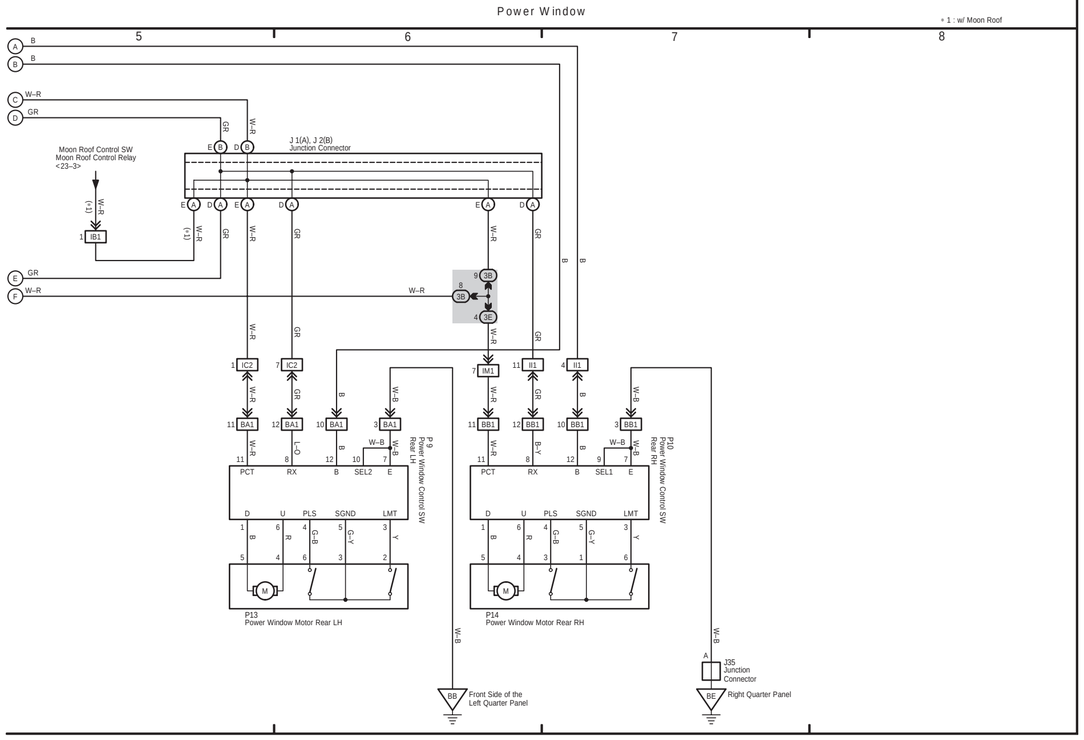
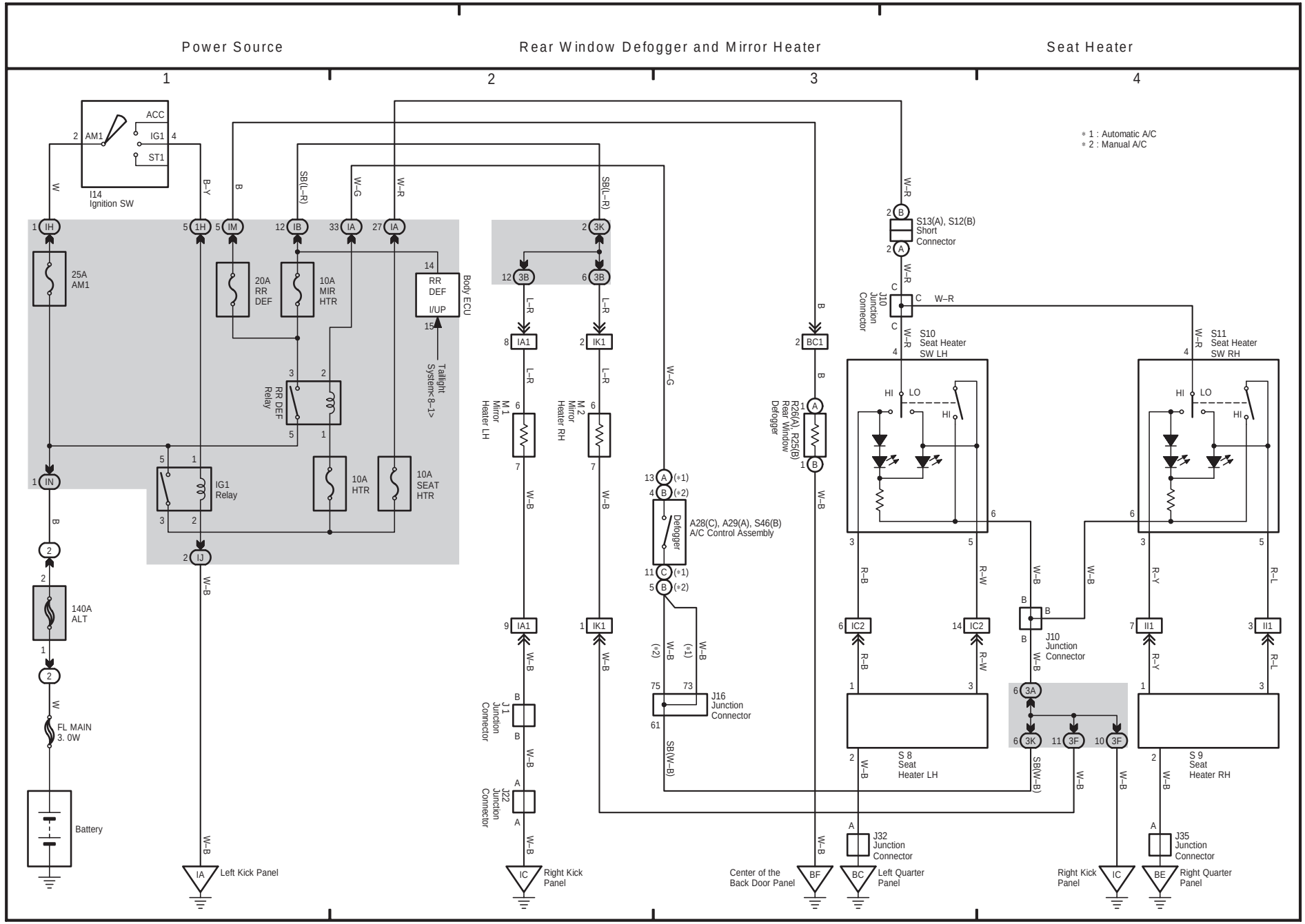


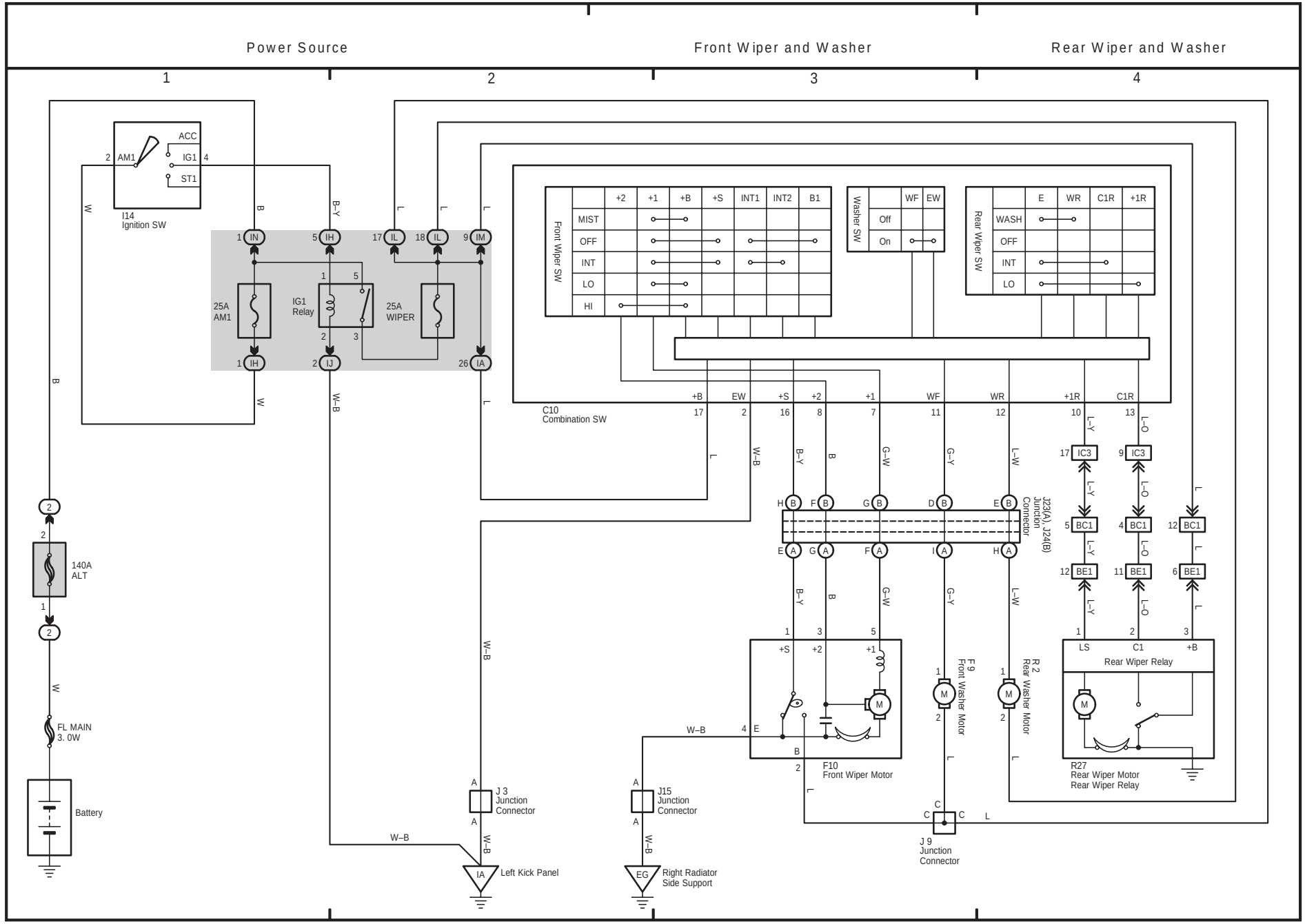
H OVERALL ELECTRICAL WIRING DIAGRAM



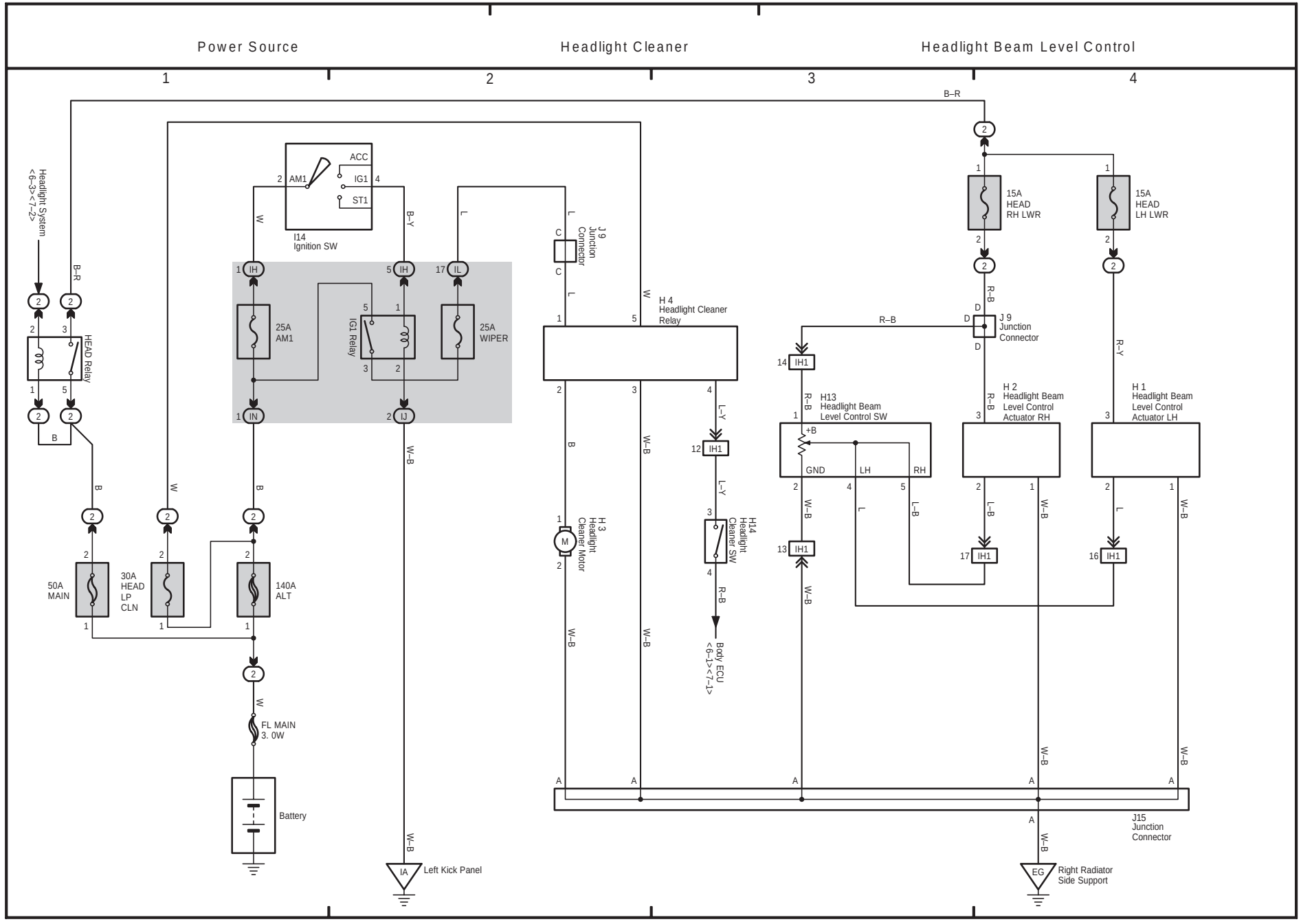
H

20 AVENSIS VERSO / PICNIC (LHD)

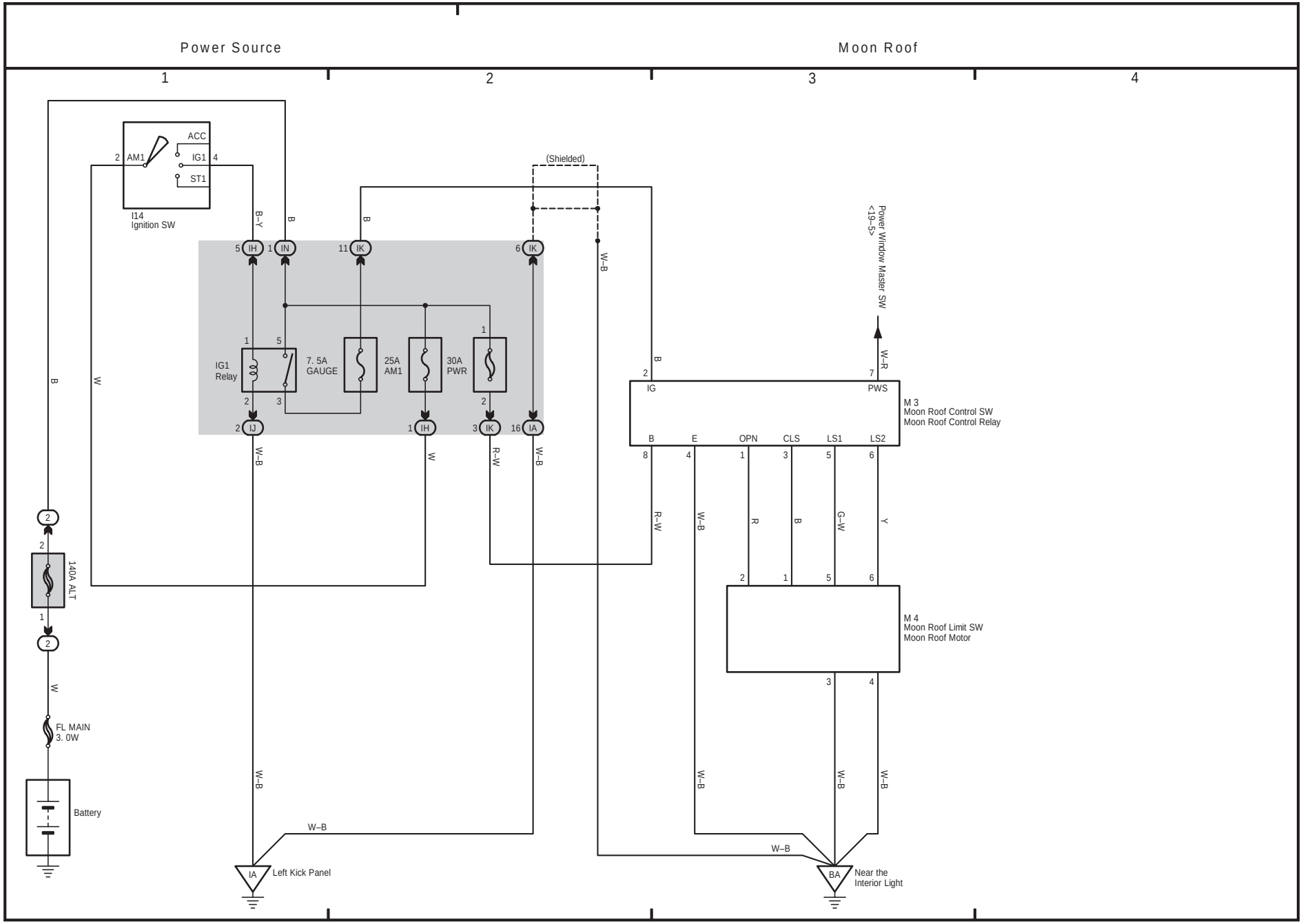



Power Source
Front Wiper and Washer
Rear Wiper and Washer
1
2
3
4
ACC
AM1
IG1
ST1
I14
Ignition SW
25A
AM1
IG1
Relay
25A
WIPER
Front Wiper SW
MIST
OFF
INT
LO
HI
Washer SW
Off
On
Rear Wiper SW
WASH
OFF
INT
LO
C10
Combination SW
J23(A), J24(B)
Junction
Connector
140A
ALT
FL MAIN
3. 0W
Battery
J 3
Junction
Connector
Left Kick Panel
J15
Junction
Connector
Right Radiator
Side Support
F10
Front Wiper Motor
F 9
Front Washer Motor
R 2
Rear Washer Motor
J 9
Junction
Connector
Rear Wiper Relay
R27
Rear Wiper Motor
Rear Wiper Relay

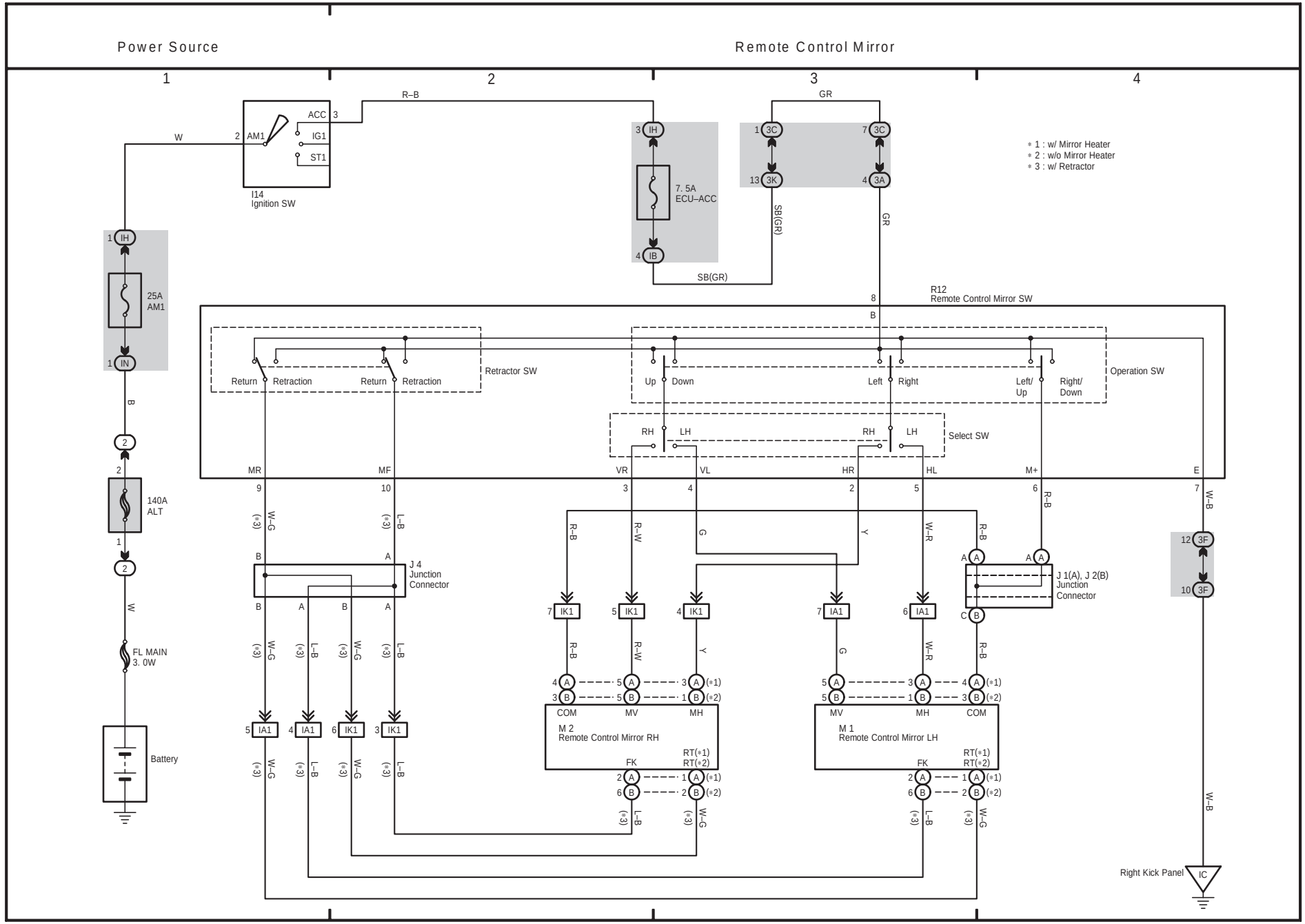
22 AVENSIS VERSO / PICNIC (LHD)



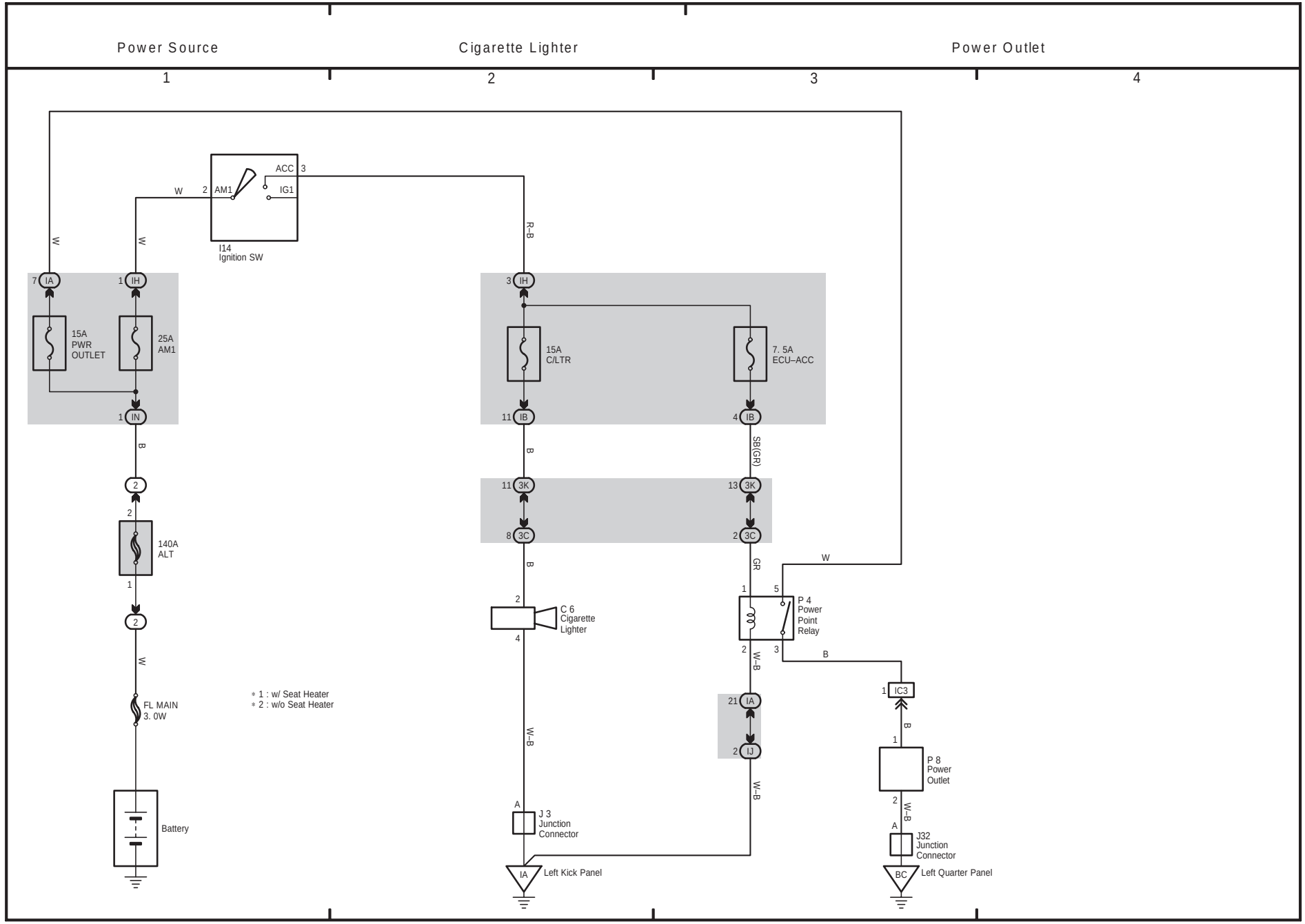
23 AVENSIS VERSO / PICNIC (LHD)



24 AVENSIS VERSO / PICNIC (LHD)

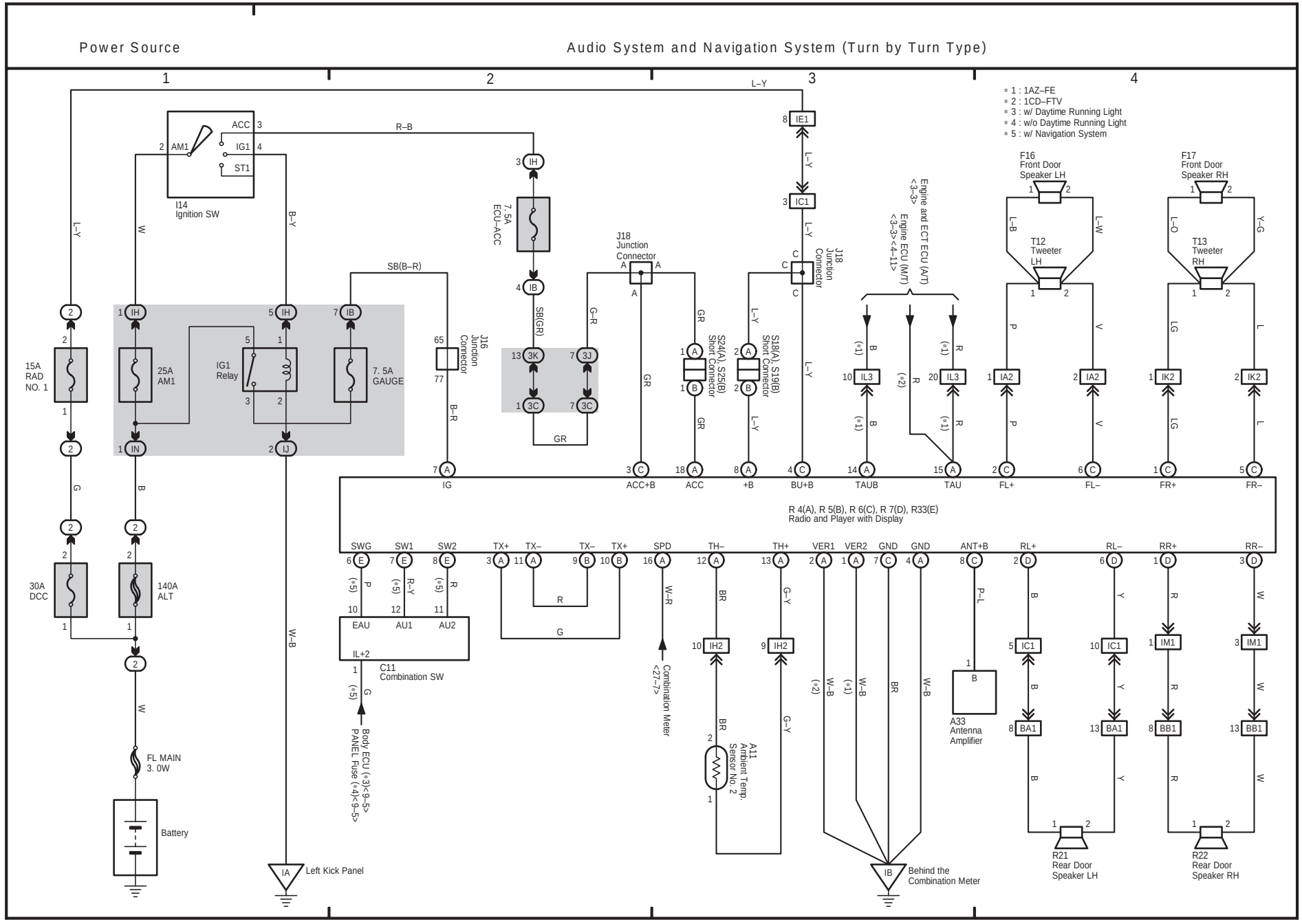


25 AVENSIS VERSO / PICNIC (LHD)



H

26 AVENSIS VERSO / PICNIC (LHD)



H OVERALL ELECTRICAL WIRING DIAGRAM

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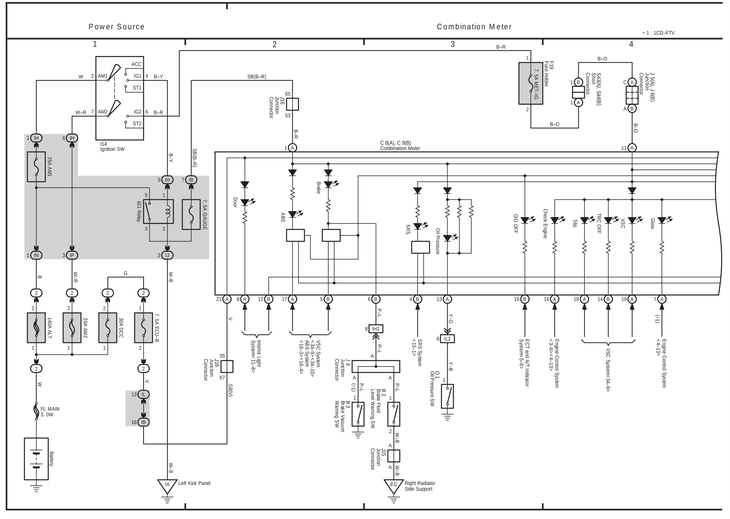

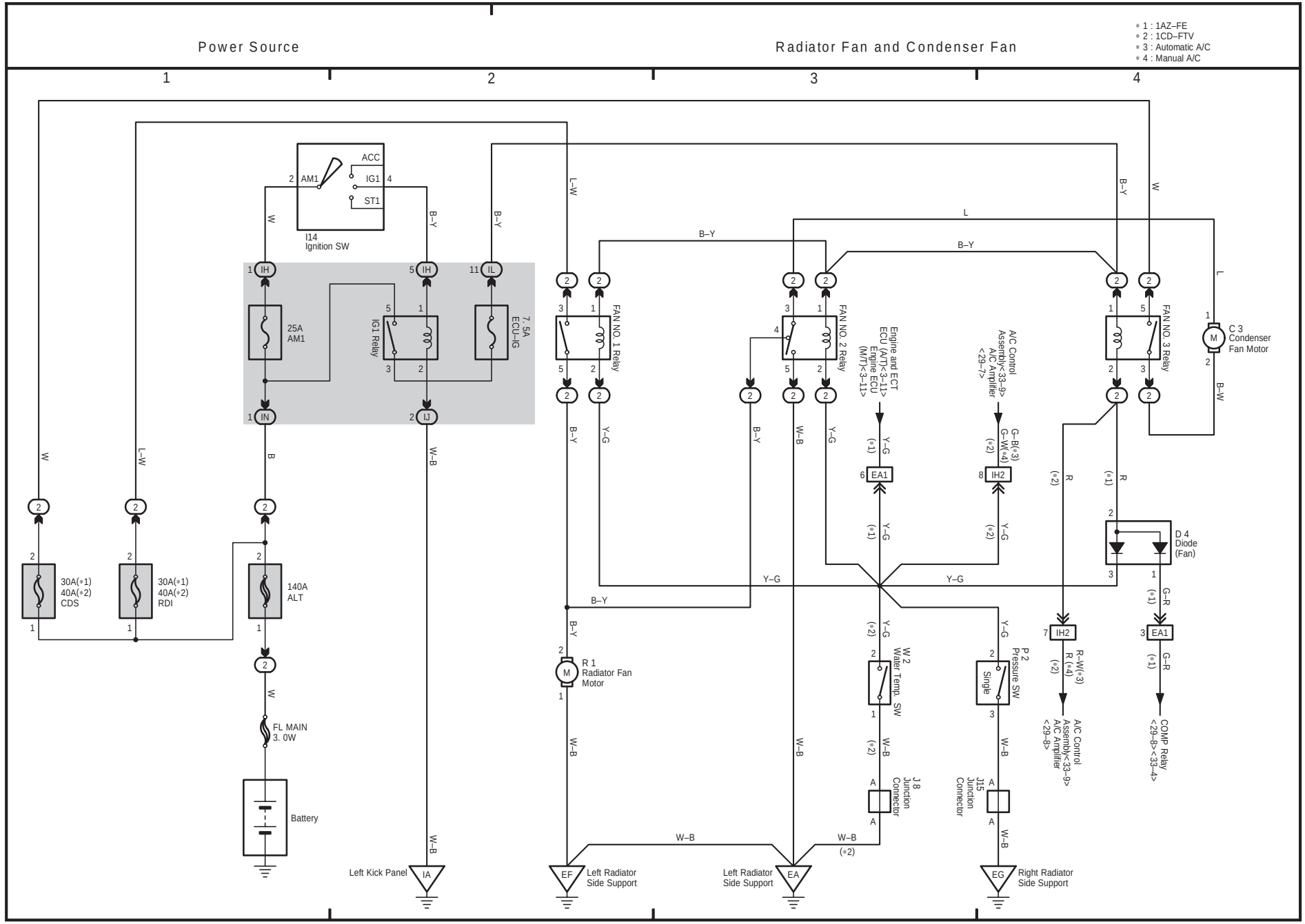
Power Source
Radiator Fan and Condenser Fan
* 1 : 1AZ–FE
* 2 : 1CD–FTV
* 3 : Automatic A/C
* 4 : Manual A/C
1
2
3
4
ACC
AM1
IG1
ST1
I14
Ignition SW
IH
IL
IN
IJ
25A
AM1
IG1 Relay
7.5A
ECU–IG
30A(*1)
40A(*2)
CDS
30A(*1)
40A(*2)
RDI
140A
ALT
FL MAIN
3.0W
Battery
Left Kick Panel
IA
FAN NO. 1 Relay
FAN NO. 2 Relay
FAN NO. 3 Relay
Engine and ECT
ECU (A/T)<3–11>
Engine ECU
(M/T)<3–11>
EA1
A/C Control
Assembly<33–9>
A/C Amplifier
<29–7>
IH2
C 3
Condenser
Fan Motor
D 4
Diode
(Fan)
R 1
Radiator Fan
Motor
W 2
Water Temp. SW
P 2
Pressure SW
Single
J8
Junction
Connector
J15
Junction
Connector
A/C Control
Assembly<33–9>
A/C Amplifier
<29–8>
COMP Relay
<29–8><33–4>
EF
Left Radiator
Side Support
EA
Left Radiator
Side Support
EG
Right Radiator
Side Support
B–Y
L–W
W
B
W–B
Y–G
G–R
R
L
B–W
R–W(*3)
R (*4)
G–B(*3)
G–W(*4)

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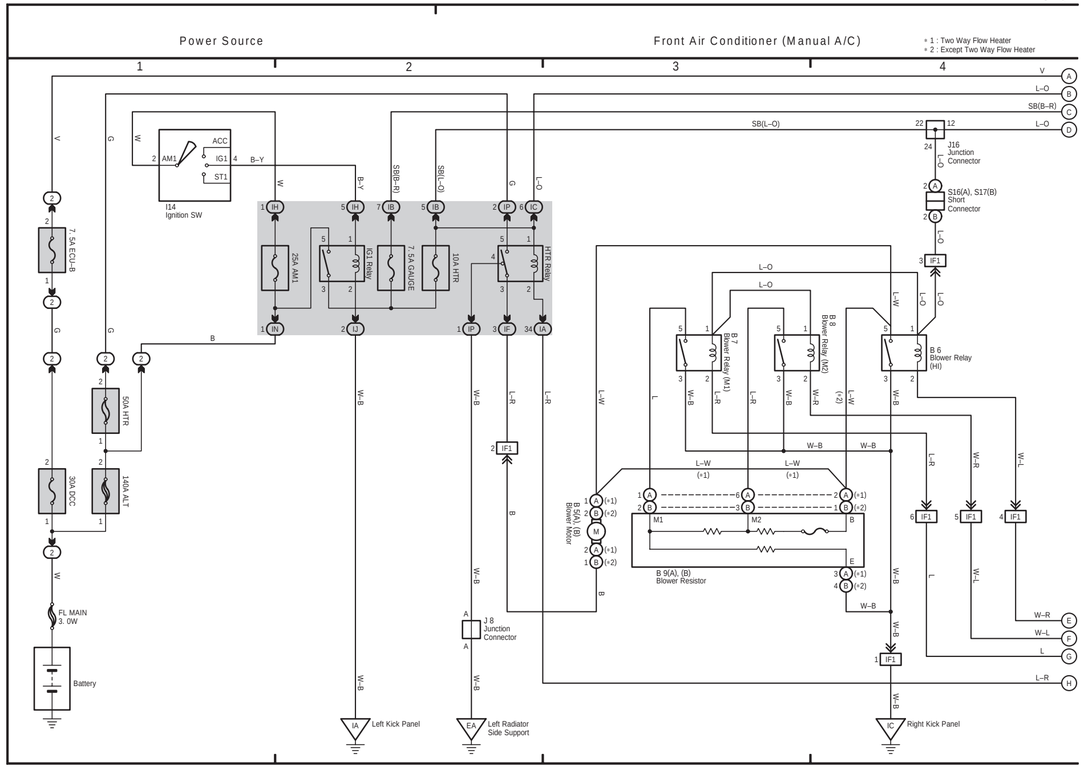
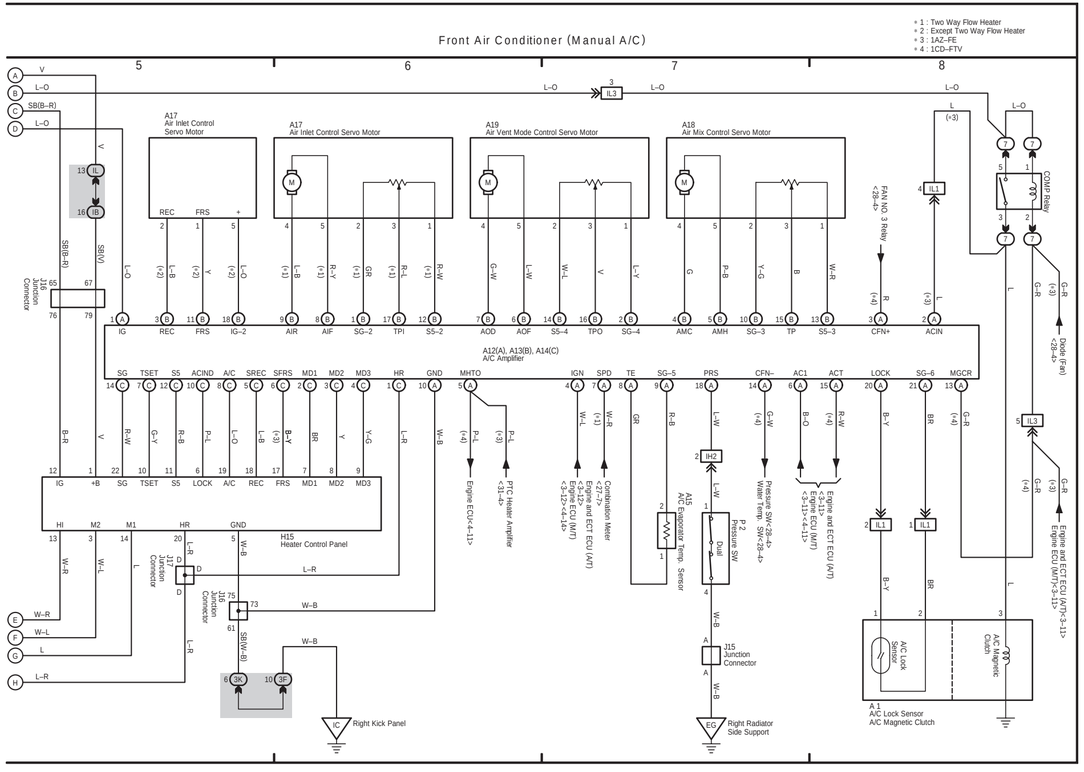
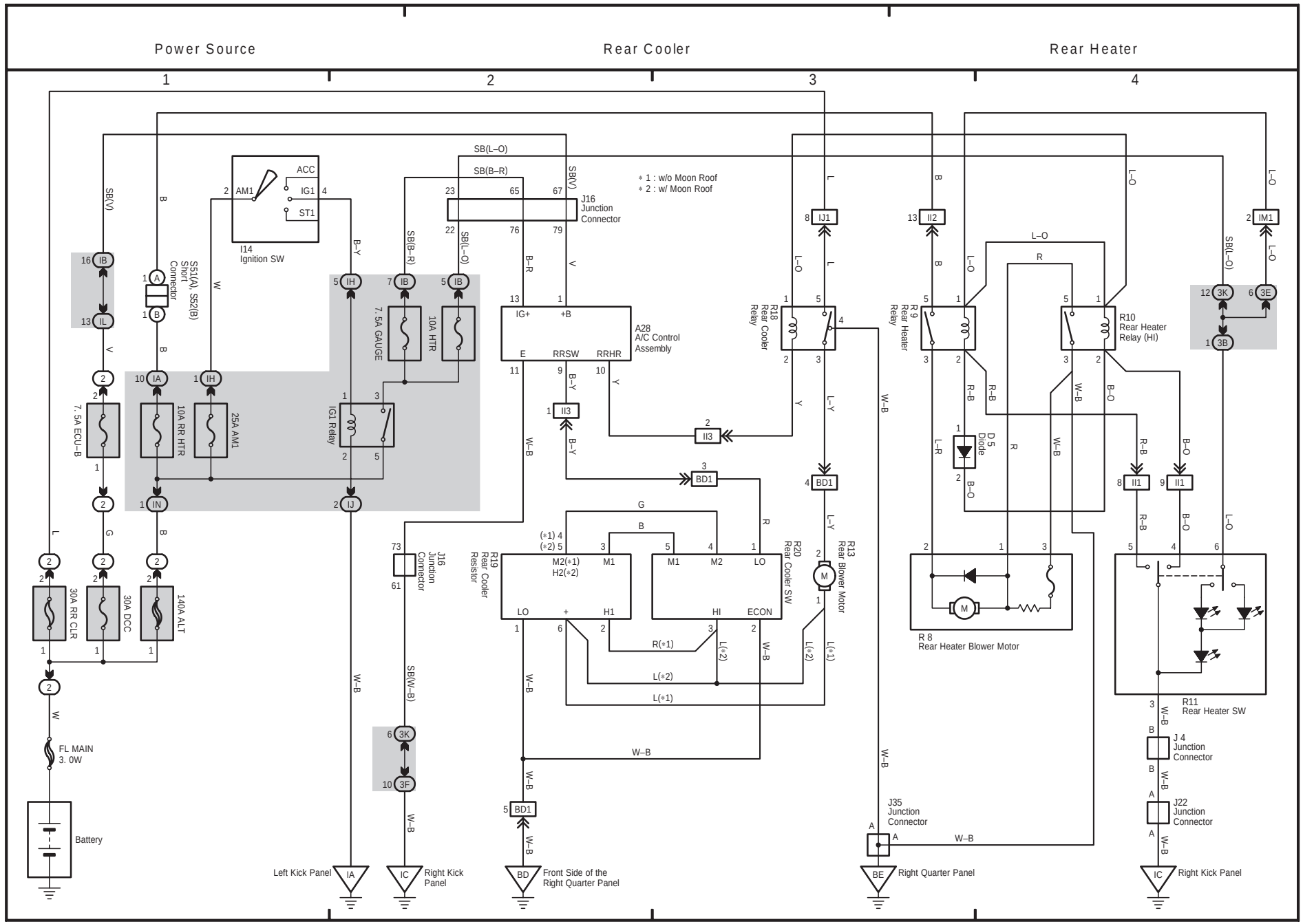
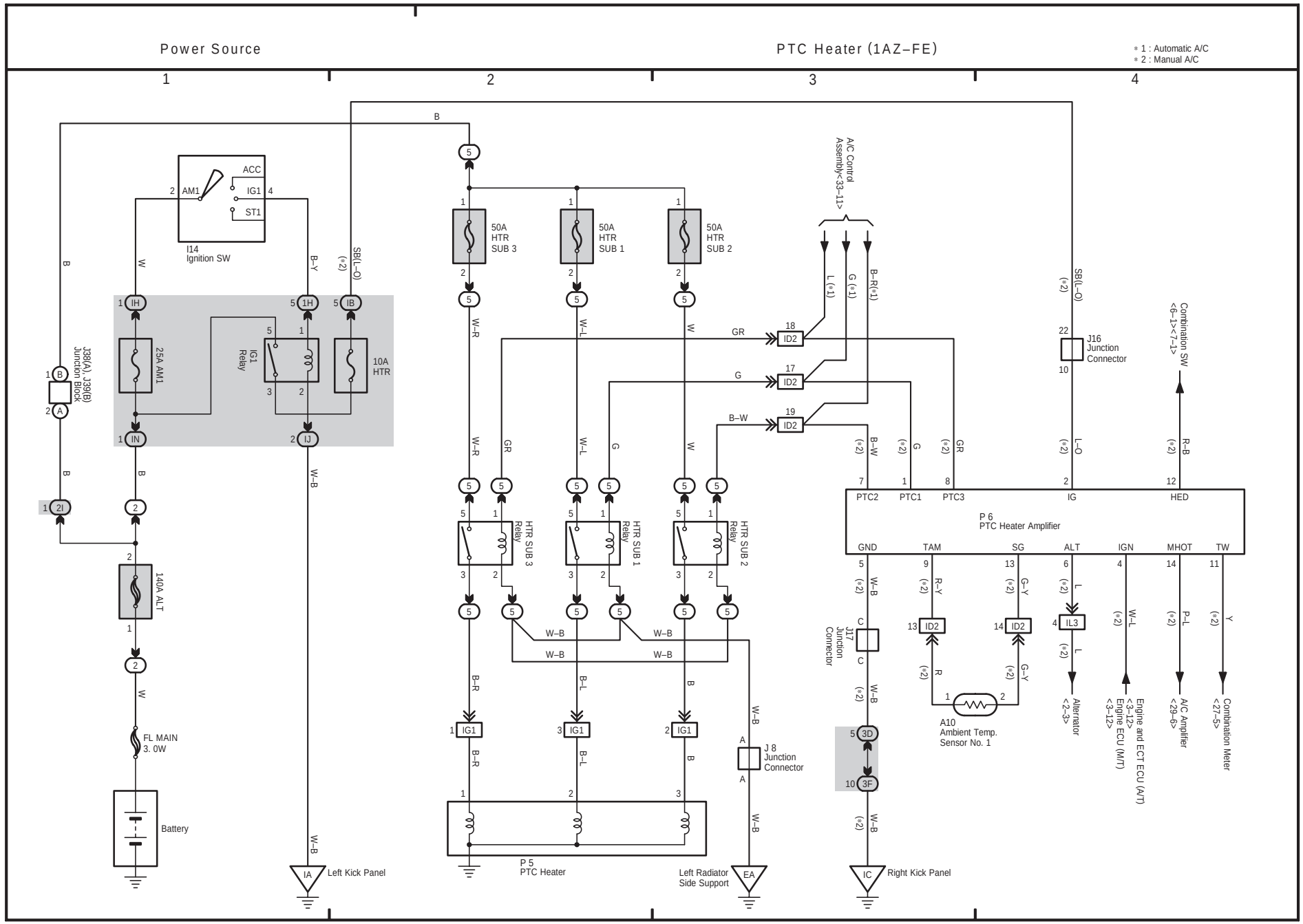


H OVERALL ELECTRICAL WIRING DIAGRAM

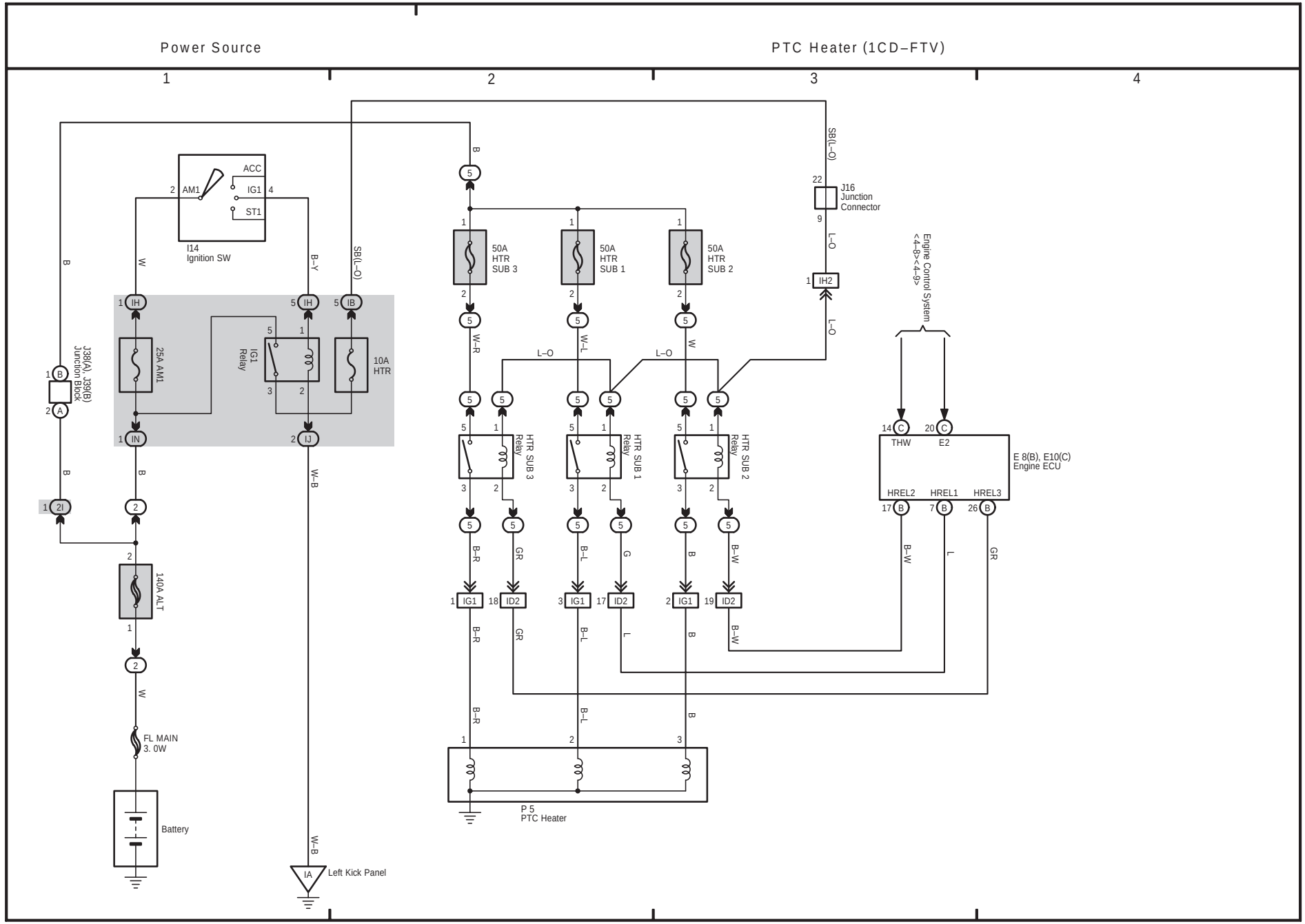


30 AVENSIS VERSO / PICNIC (LHD)




Power Source
PTC Heater (1AZ–FE)
* 1 : Automatic A/C
* 2 : Manual A/C
1
2
3
4
ACC
AM1
IG1
ST1
I14
Ignition SW
J38(A), J39(B)
Junction Block
25A AM1
IG1
Relay
10A
HTR
140A ALT
FL MAIN
3. 0W
Battery
Left Kick Panel
50A
HTR
SUB 3
50A
HTR
SUB 1
50A
HTR
SUB 2
HTR SUB 3
Relay
HTR SUB 1
Relay
HTR SUB 2
Relay
P 5
PTC Heater
J 8
Junction
Connector
Left Radiator
Side Support
A/C Control
Assembly<33–11>
J16
Junction
Connector
Combination SW
<6–1><7–1>
P 6
PTC Heater Amplifier
PTC2
PTC1
PTC3
IG
HED
GND
TAM
SG
ALT
IGN
MHOT
TW
J17
Junction
Connector
A10
Ambient Temp.
Sensor No. 1
Alternator
<2–3>
Engine and ECT ECU (A/T)
<3–12>
Engine ECU (M/T)
<3–12>
A/C Amplifier
<29–6>
Combination Meter
<27–5>
Right Kick Panel

32 AVENSIS VERSO / PICNIC (LHD)



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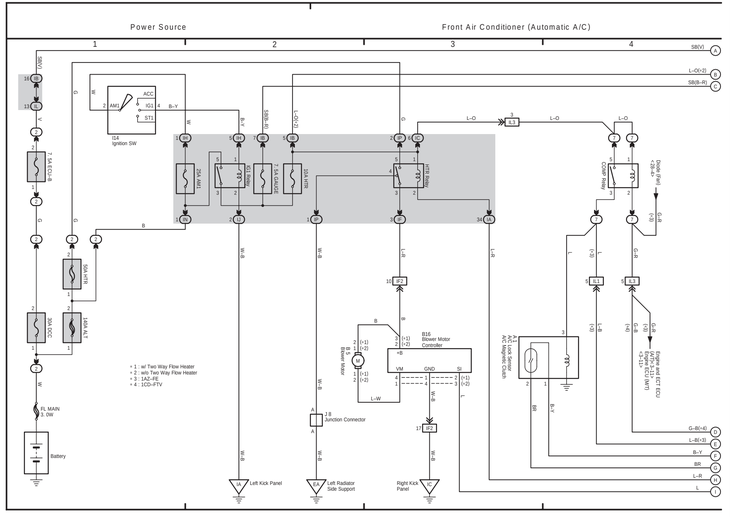

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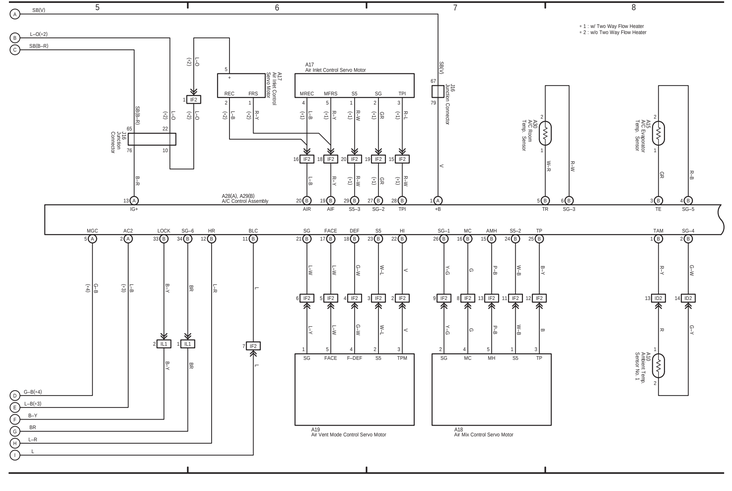

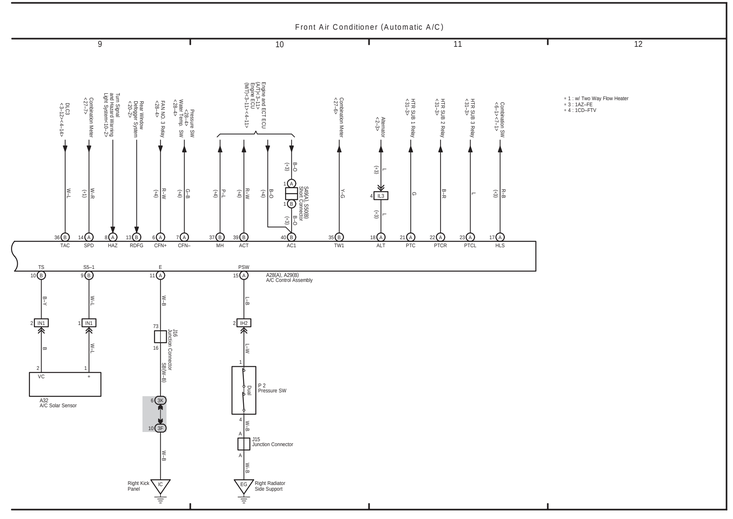

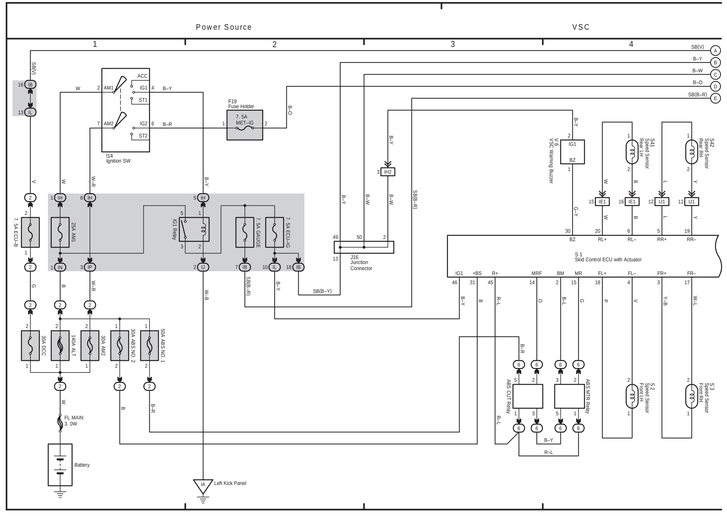
Power Source
VSC
1
2
3
4
SBV
SBV-IG
ACC
IG1
ST1
IG2
ST2
AM1
AM2
G4
Ignition SW
F19
Fuse Holder
7.5A
MPX-40
B-R
B-Y
W
W-B
B-O
SBB-R
SBB-Y
SBB-R1
SBB-R2
SBB-R3
SBB-R4
SBB-R5
SBB-R6
SBB-R7
SBB-R8
SBB-R9
SBB-R10
SBB-R11
SBB-R12
SBB-R13
SBB-R14
SBB-R15
SBB-R16
SBB-R17
SBB-R18
SBB-R19
SBB-R20
SBB-R21
SBB-R22
SBB-R23
SBB-R24
SBB-R25
SBB-R26
SBB-R27
SBB-R28
SBB-R29
SBB-R30
SBB-R31
SBB-R32
SBB-R33
SBB-R34
SBB-R35
SBB-R36
SBB-R37
SBB-R38
SBB-R39
SBB-R40

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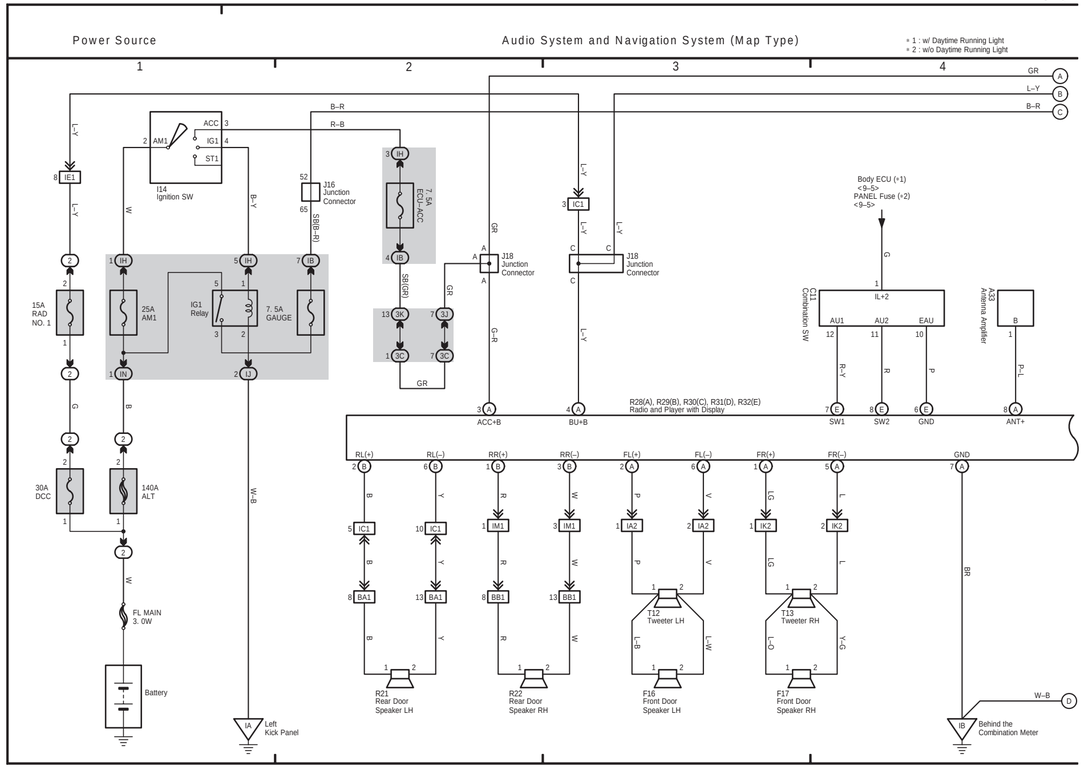
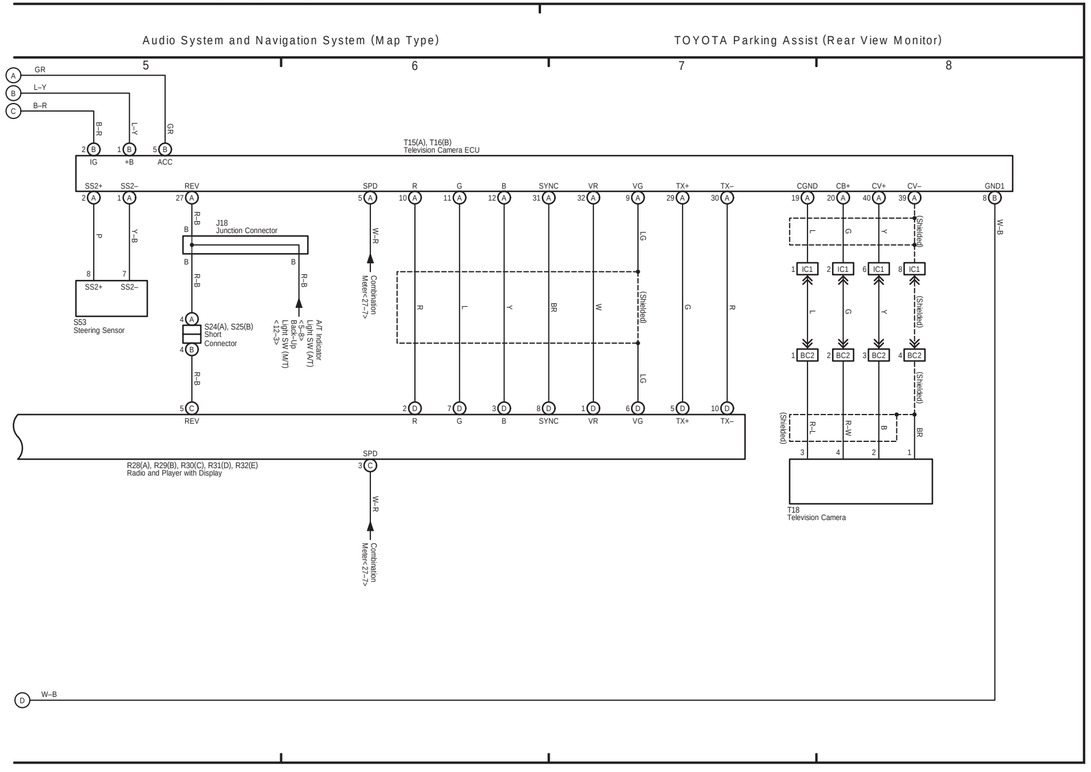
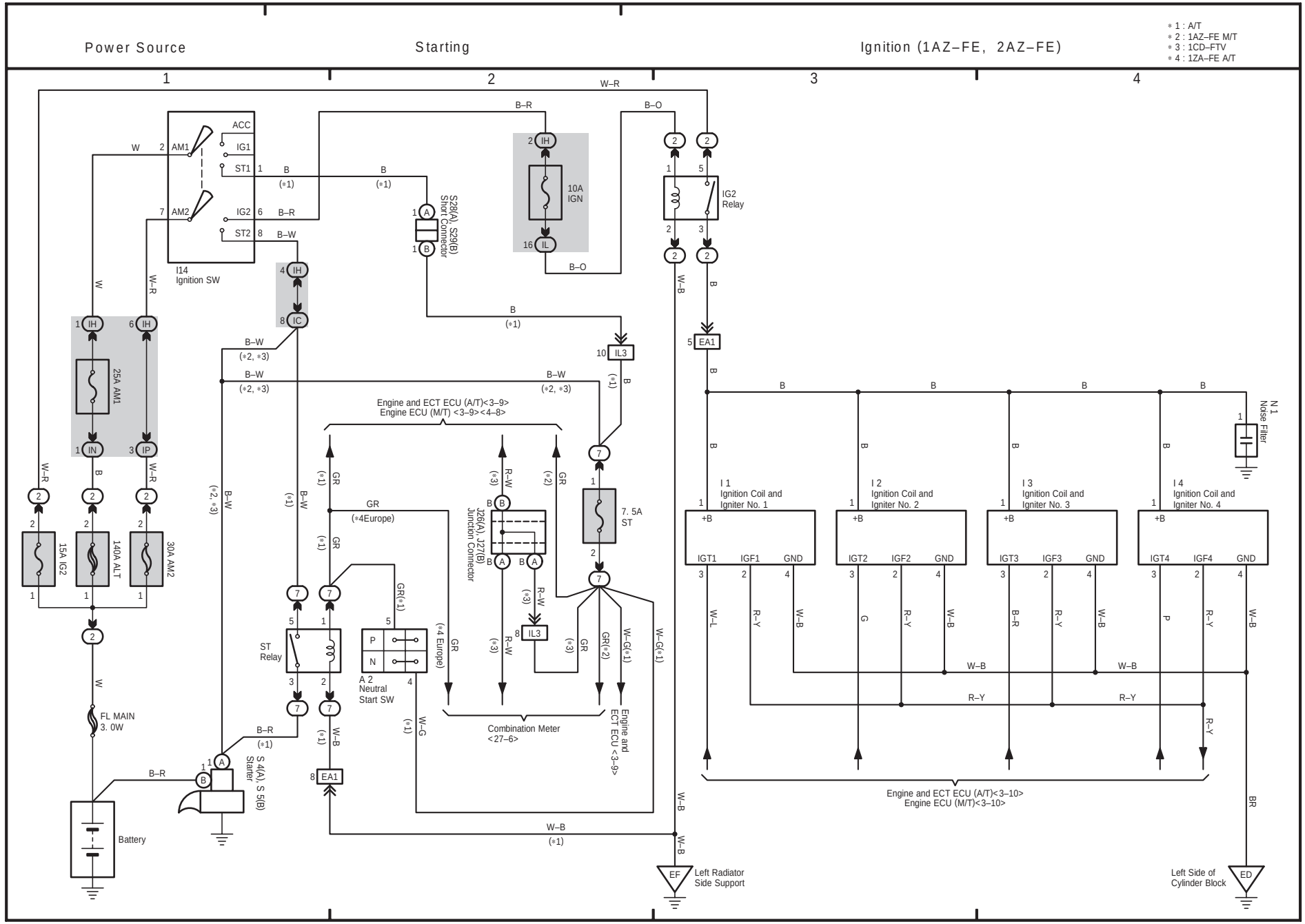


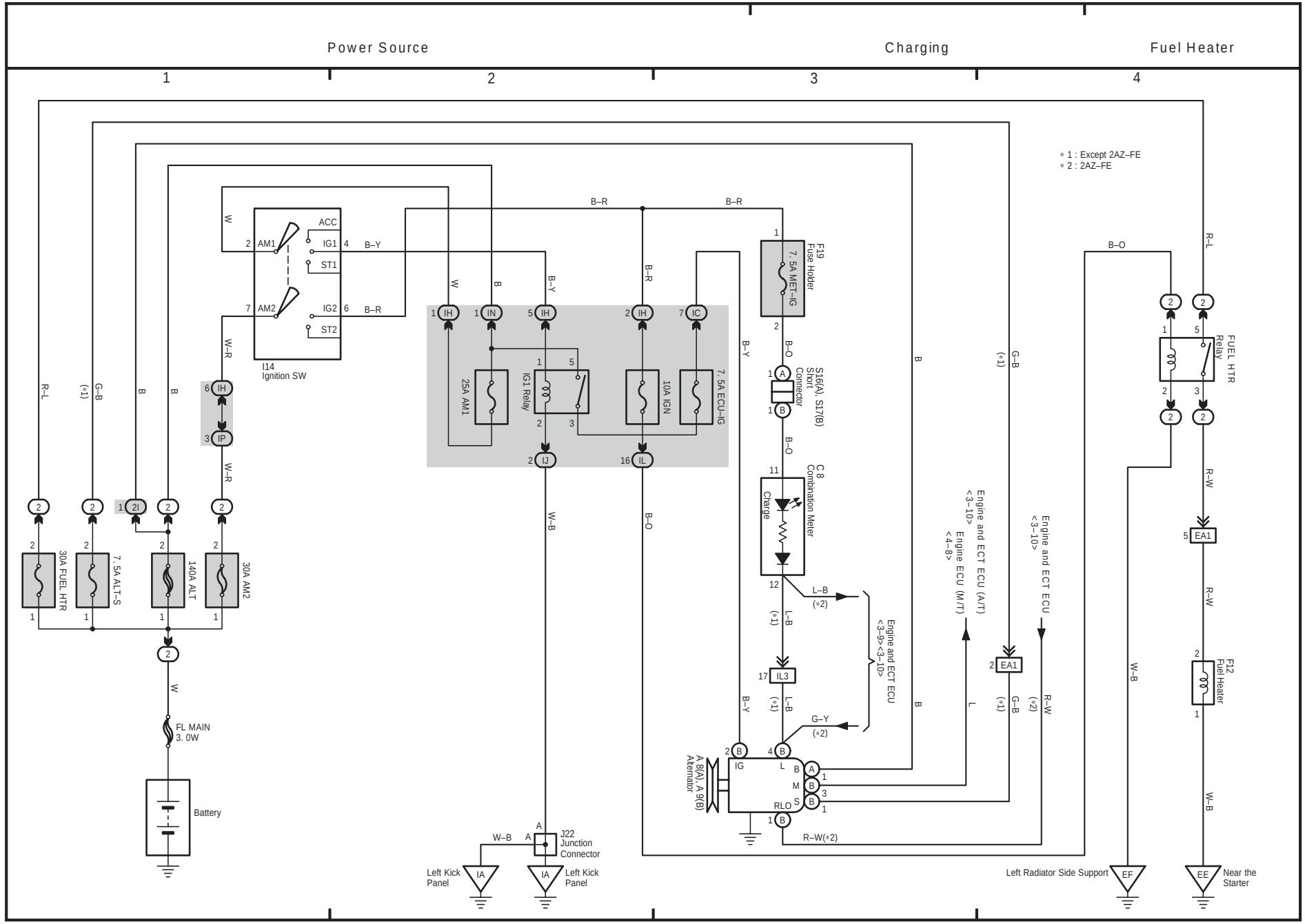
H OVERALL ELECTRICAL WIRING DIAGRAM



1 AVENSIS VERSO / PICNIC (RHD)



2 AVENSIS VERSO / PICNIC (RHD)



3 AVENSIS VERSO / PICNIC (RHD)

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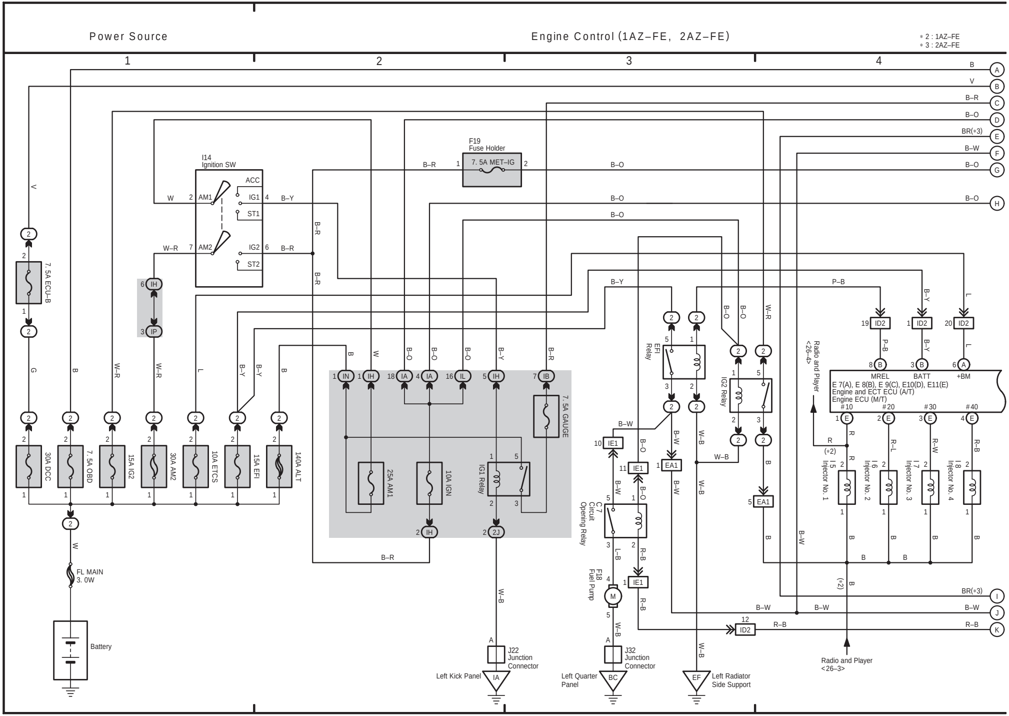
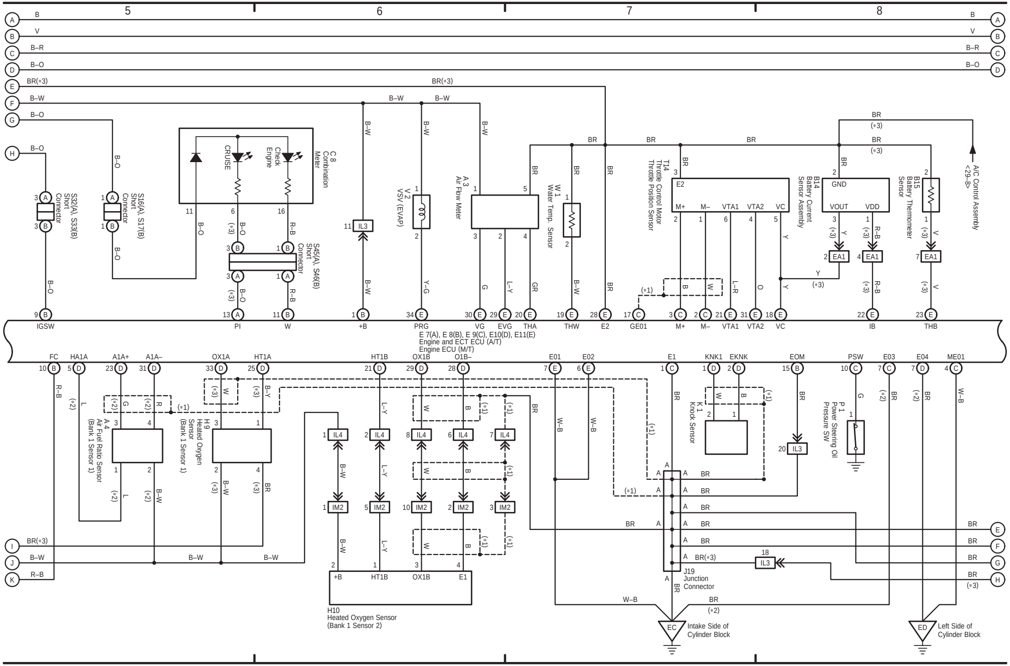


Power Source
Engine Control (1AZ–FE, 2AZ–FE)
＊2 : 1AZ–FE
＊3 : 2AZ–FE
1
2
3
4
I14
Ignition SW
ACC
AM1
IG1
ST1
AM2
IG2
ST2
F19
Fuse Holder
7. 5A MET–IG
7. 5A ECU–B
30A DCC
7. 5A OBD
15A IG2
30A AM2
10A ETCS
15A EFI
140A ALT
25A AM1
10A IGN
IG1 Relay
7. 5A GAUGE
FL MAIN
3. 0W
Battery
J22
Junction
Connector
Left Kick Panel
J32
Junction
Connector
Left Quarter
Panel
Left Radiator
Side Support
EFI
Relay
IG2 Relay
C 7
Circuit
Opening Relay
F18
Fuel Pump
Radio and Player
<26–4>
Radio and Player
<26–3>
MREL
BATT
+BM
E 7(A), E 8(B), E 9(C), E10(D), E11(E)
Engine and ECT ECU (A/T)
Engine ECU (M/T)
#10
#20
#30
#40
I 5
Injector No. 1
I 6
Injector No. 2
I 7
Injector No. 3
I 8
Injector No. 4
IN
IH
IA
IL
IB
IP
2J
IE1
EA1
ID2
IA
BC
EF
A
B
C
D
E
F
G
H
I
J
K
B
V
B–R
B–O
BR(＊3)
B–W
R–B
B–Y
W–R
W
L
G
P–B
R
R–L
R–W
L–B
W–B
(＊2)

Engine Control (1AZ–FE, 2AZ–FE)

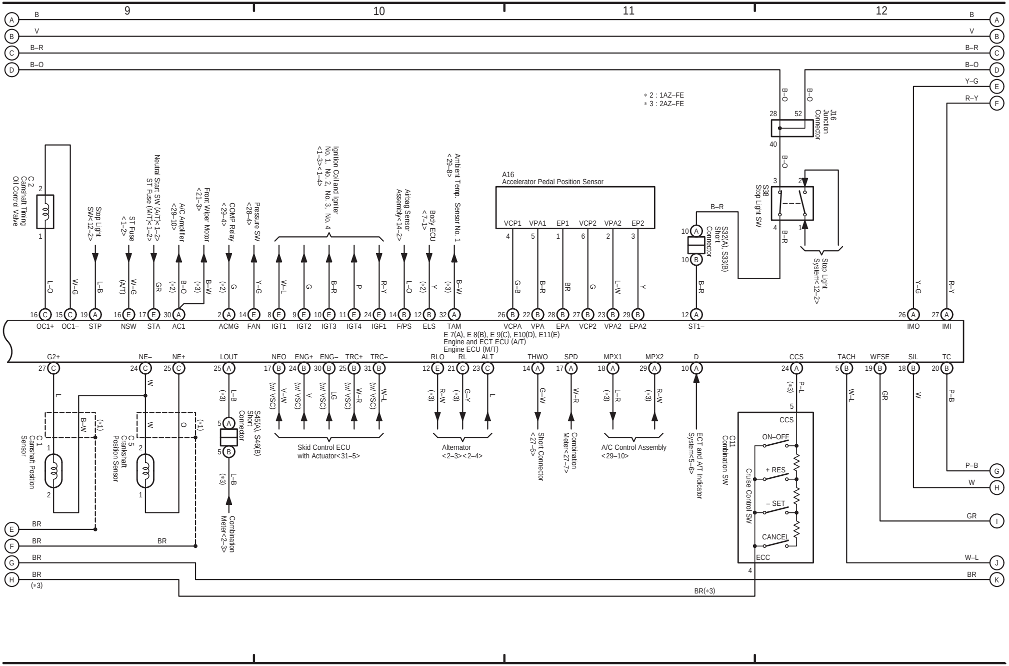
∗ 1 : Shielded
∗ 2 : 1AZ–FE
∗ 3 : 2AZ–FE


5
6
7
8
A B
B V
C B–R
D B–O
E BR(∗3)
F B–W
G B–O
H B–O
S32(A), S33(B) Short Connector
S16(A), S17(B) Short Connector
C 8 Combination Meter
CRUISE
Check Engine
S45(A), S46(B) Short Connector
IL3
V 2 VSV (EVAP)
A 3 Air Flow Meter
W 1 Water Temp. Sensor
T14 Throttle Control Motor Throttle Position Sensor
E2
M+ M– VTA1 VTA2 VC
B14 Battery Current Sensor Assembly
GND VOUT VDD
B15 Battery Thermometer Sensor
A/C Control Assembly <29–8>
EA1
IGSW
PI
W
+B
PRG
VG EVG THA
THW
E2
GE01
M+ M– VTA1 VTA2 VC
IB
THB
E 7(A), E 8(B), E 9(C), E10(D), E11(E)
Engine and ECT ECU (A/T)
Engine ECU (M/T)
FC HA1A A1A+ A1A– OX1A HT1A HT1B OX1B O1B– E01 E02 E1 KNK1 EKNK EOM PSW E03 E04 ME01
A 4 Air Fuel Ratio Sensor (Bank 1 Sensor 1)
H 9 Heated Oxygen Sensor (Bank 1 Sensor 1)
IL4
IM2
K 1 Knock Sensor
P 1 Power Steering Oil Pressure SW
IL3
J19 Junction Connector
H10 Heated Oxygen Sensor (Bank 1 Sensor 2)
+B HT1B OX1B E1
I BR(∗3)
J B–W
K R–B
EC Intake Side of Cylinder Block
ED Left Side of Cylinder Block

(Cont. next page)

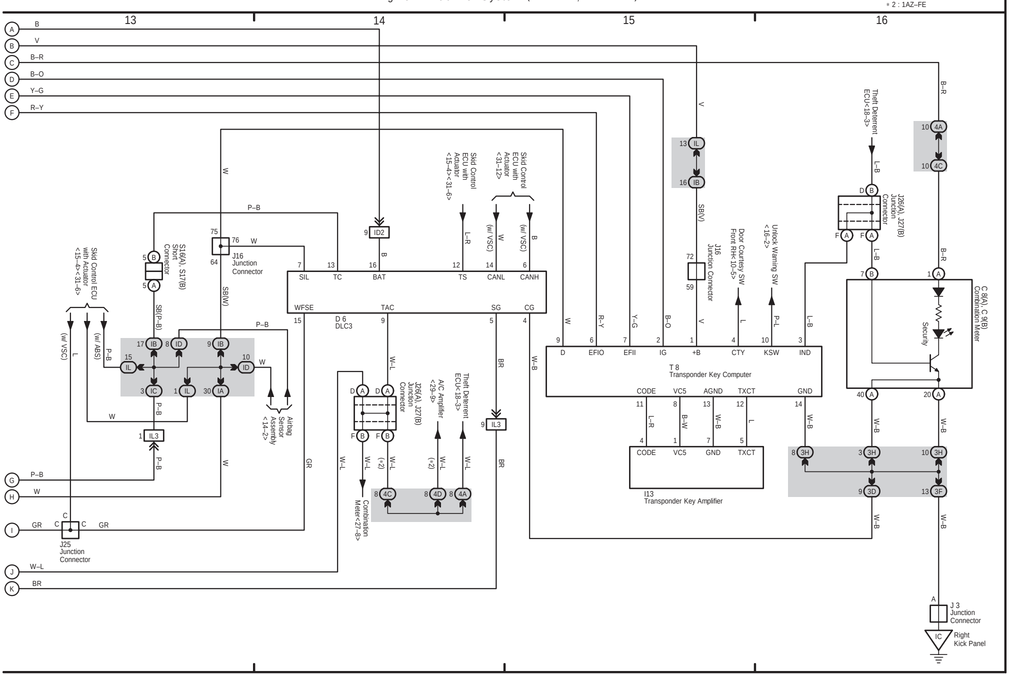
Engine Control (1AZ–FE, 2AZ–FE)

Cruise Control (2AZ–FE)


9
10
11
12
A B
B V
C B–R
D B–O
E Y–G
F R–Y
∗ 2 : 1AZ–FE
∗ 3 : 2AZ–FE
C 2 Camshaft Timing Oil Control Valve
Stop Light SW<12–2>
ST Fuse <1–2>
Neutral Start SW (A/T)<1–2> ST Fuse (M/T)<1–2>
A/C Amplifier <29–10>
Front Wiper Motor <21–3>
COMP Relay <29–4>
Pressure SW <28–4>
Ignition Coil and Igniter No. 1, No. 2, No. 3, No. 4 <1–3><1–4>
Airbag Sensor Assembly<14–2>
Body ECU <7–1>
Ambient Temp. Sensor No. 1 <29–8>
A16 Accelerator Pedal Position Sensor
VCP1 VPA1 EP1 VCP2 VPA2 EP2
S32(A), S33(B) Short Connector
J16 Junction Connector
S38 Stop Light SW
Stop Light System<12–2>
OC1+ OC1– STP NSW STA AC1 ACMG FAN IGT1 IGT2 IGT3 IGT4 IGF1 F/PS ELS TAM VCPA VPA EPA VCP2 VPA2 EPA2 ST1– IMO IMI
E 7(A), E 8(B), E 9(C), E10(D), E11(E) Engine and ECT ECU (A/T) Engine ECU (M/T)
G2+ NE– NE+ LOUT NEO ENG+ ENG– TRC+ TRC– RLO RL ALT THWO SPD MPX1 MPX2 D CCS TACH WFSE SIL TC
C 1 Camshaft Position Sensor
C 5 Crankshaft Position Sensor
S45(A), S46(B) Short Connector
Combination Meter<2–3>
Skid Control ECU with Actuator<31–5>
(w/ VSC)
Alternator <2–3><2–4>
Short Connector <27–6>
Combination Meter<27–7>
A/C Control Assembly <29–10>
ECT and A/T Indicator System<5–6>
C11 Combination SW
Cruise Control SW
CCS ON–OFF + RES – SET CANCEL ECC
BR(∗3)
G P–B
H W
I GR
J W–L
K BR
E BR
F BR
G BR
H BR (∗3)

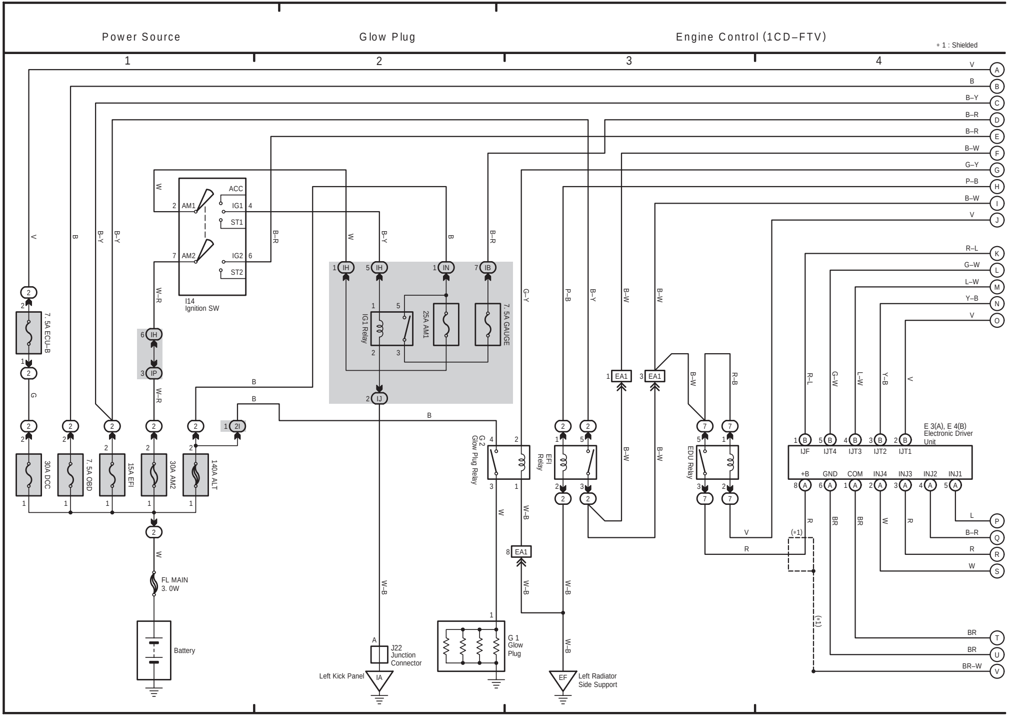
3 AVENSIS VERSO / PICNIC (RHD) (Cont' d)

Engine Immobilizer System (1AZ–FE, 2AZ–FE)

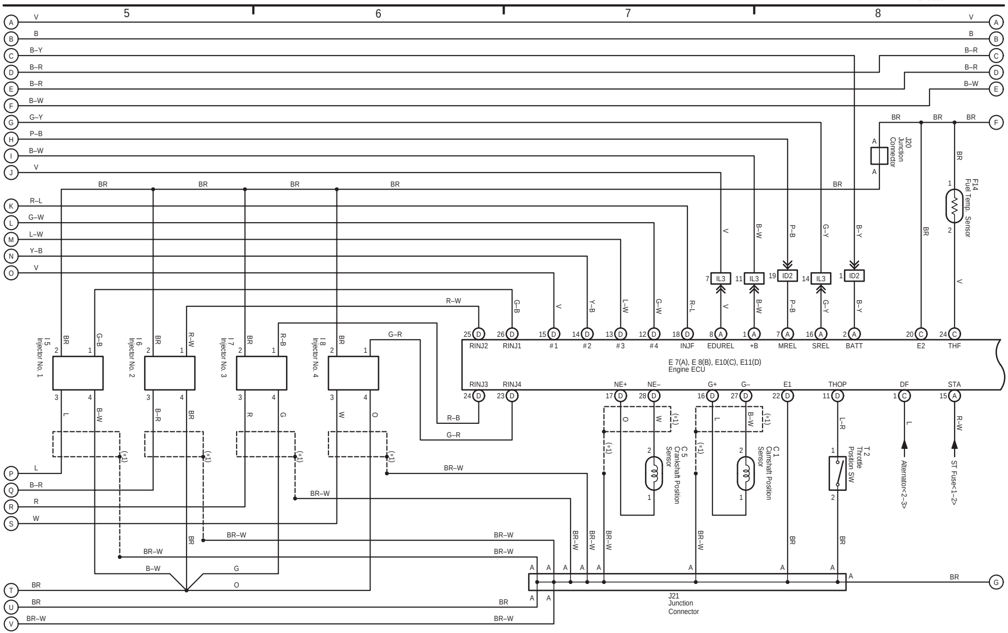

＊2 : 1AZ–FE
13
14
15
16
A B
B V
C B–R
D B–O
E Y–G
F R–Y
G P–B
H W
I GR
J W–L
K BR
Skid Control ECU with Actuator <15–4><31–6>
(w/ VSC)
(w/ ABS)
S16(A), S17(B) Short Connector
J16 Junction Connector
Airbag Sensor Assembly <14–2>
J25 Junction Connector
ID2
D 6 DLC3
SIL
TC
BAT
TS
CANL
CANH
WFSE
TAC
SG
CG
Skid Control ECU with Actuator <15–4><31–6>
Skid Control ECU with Actuator <31–12>
J26(A), J27(B) Junction Connector
A/C Amplifier <29–9>
Theft Deterrent ECU<18–3>
Combination Meter<27–8>
IL3
T 8 Transponder Key Computer
D
EFIO
EFII
IG
+B
CTY
KSW
IND
CODE
VC5
AGND
TXCT
GND
I13 Transponder Key Amplifier
Door Courtesy SW Front RH<10–5>
Unlock Warning SW <16–2>
Theft Deterrent ECU<18–3>
J26(A), J27(B) Junction Connector
C 8(A), C 9(B) Combination Meter
Security
J 3 Junction Connector
IC
Right Kick Panel

4 AVENSIS VERSO / PICNIC (RHD)

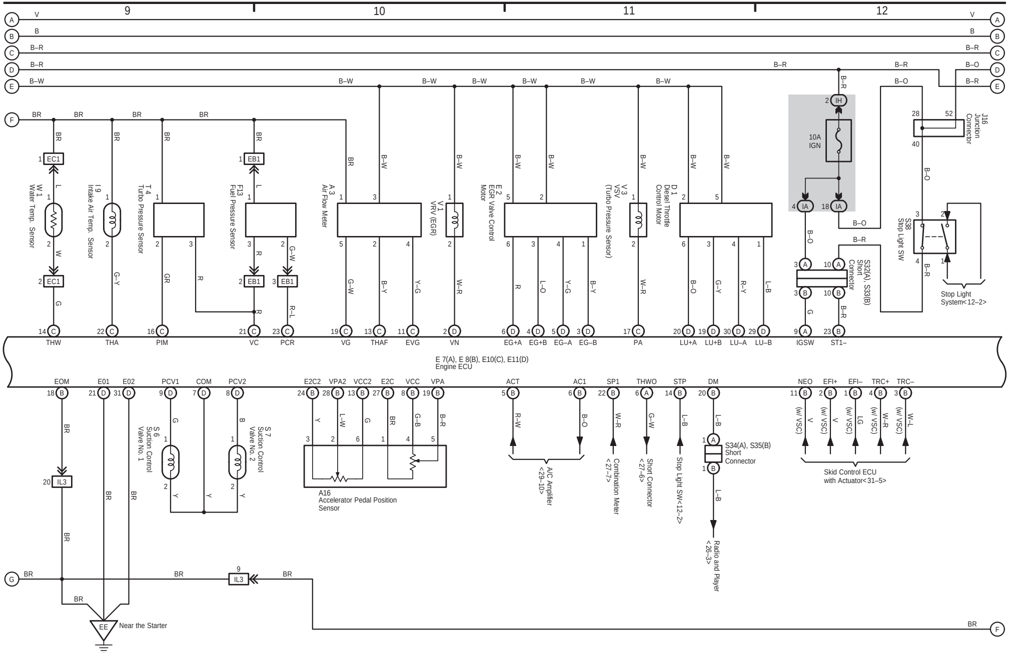
(Cont. next page)


Power Source
Glow Plug
Engine Control (1CD–FTV)
＊1 : Shielded
1
2
3
4
7. 5A ECU–B
30A DCC
7. 5A OBD
15A EFI
30A AM2
140A ALT
FL MAIN
3. 0W
Battery
I14
Ignition SW
ACC
AM1
IG1
ST1
AM2
IG2
ST2
IG1 Relay
25A AM1
7. 5A GAUGE
J22
Junction
Connector
Left Kick Panel
IA
G 2
Glow Plug Relay
G 1
Glow
Plug
EFI
Relay
EDU Relay
EA1
EF
Left Radiator
Side Support
E 3(A), E 4(B)
Electronic Driver
Unit
IJF
IJT4
IJT3
IJT2
IJT1
+B
GND
COM
INJ4
INJ3
INJ2
INJ1
IH
IN
IB
IJ
IP
2I
(＊1)
V
B
B–Y
B–R
B–W
G–Y
P–B
R–L
G–W
L–W
Y–B
W
W–R
W–B
G
R
L
BR
BR–W
R–B
A
B
C
D
E
F
G
H
I
J
K
L
M
N
O
P
Q
R
S
T
U
V

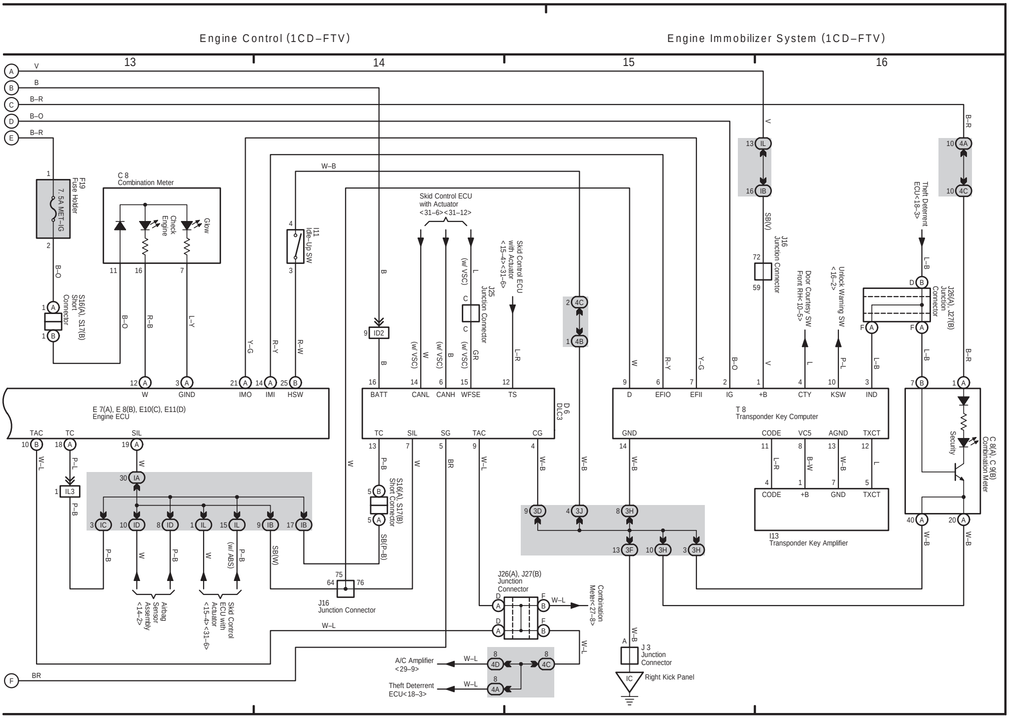
Engine Control (1CD−FTV)


∗ 1 : Shielded
5
6
7
8
A V
B B
C B–Y
D B–R
E B–R
F B–W
G G–Y
H P–B
I B–W
J V
K R–L
L G–W
M L–W
N Y–B
O V
P L
Q B–R
R R
S W
T BR
U BR
V BR–W
V A
B B
B–R C
B–R D
B–W E
BR F
BR G
J20 Junction Connector
F14 Fuel Temp. Sensor
I 5 Injector No. 1
I 6 Injector No. 2
I 7 Injector No. 3
I 8 Injector No. 4
IL3
ID2
E 7(A), E 8(B), E10(C), E11(D) Engine ECU
RINJ2
RINJ1
#1
#2
#3
#4
INJF
EDUREL
+B
MREL
SREL
BATT
E2
THF
RINJ3
RINJ4
NE+
NE–
G+
G–
E1
THOP
DF
STA
C 5 Crankshaft Position Sensor
C 1 Camshaft Position Sensor
T 2 Throttle Position SW
Alternator<2–3>
ST Fuse<1–2>
J21 Junction Connector
(∗1)
BR–W
R–W
G–R
R–B

Engine Control (1CD–FTV)

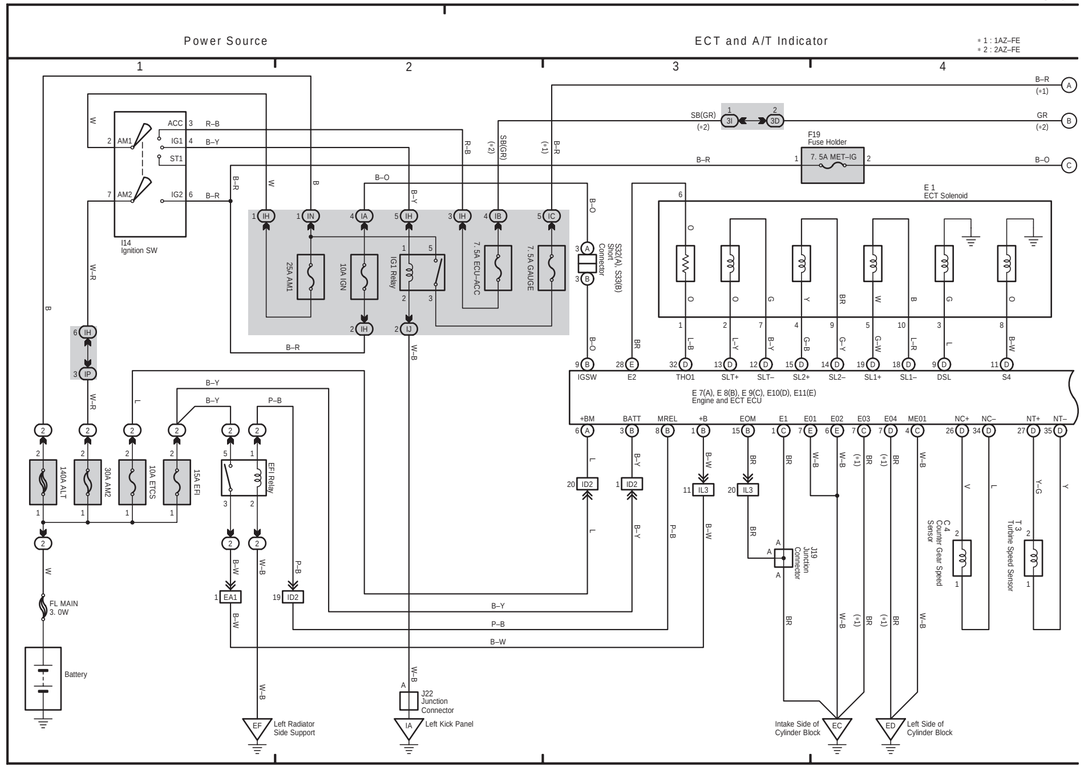

9
10
11
12
A
B
C
D
E
F
G
V
B
B–R
B–W
B–O
BR
EC1
EB1
W 1
Water Temp. Sensor
I 9
Intake Air Temp. Sensor
T 4
Turbo Pressure Sensor
F13
Fuel Pressure Sensor
A 3
Air Flow Meter
V 1
VRV (EGR)
E 2
EGR Valve Control Motor
V 3
VSV
(Turbo Pressure Sensor)
D 1
Diesel Throttle Control Motor
IH
10A
IGN
IA
J16
Junction Connector
S32(A), S33(B)
Short Connector
S38
Stop Light SW
Stop Light System<12–2>
L
W
G
G–Y
GR
R
G–W
R–L
B–Y
Y–G
W–R
L–O
B–O
R–Y
L–B
THW
THA
PIM
VC
PCR
VG
THAF
EVG
VN
EG+A
EG+B
EG–A
EG–B
PA
LU+A
LU+B
LU–A
LU–B
IGSW
ST1–
E 7(A), E 8(B), E10(C), E11(D)
Engine ECU
EOM
E01
E02
PCV1
COM
PCV2
E2C2
VPA2
VCC2
E2C
VCC
VPA
ACT
AC1
SP1
THWO
STP
DM
NEO
EFI+
EFI–
TRC+
TRC–
IL3
S 6
Suction Control Valve No. 1
S 7
Suction Control Valve No. 2
A16
Accelerator Pedal Position Sensor
Y
L–W
R–W
G–B
B–R
W–R
W–L
LG
(w/ VSC)
A/C Amplifier <29–10>
Combination Meter <27–7>
Short Connector <27–6>
Stop Light SW<12–2>
S34(A), S35(B)
Short Connector
Radio and Player <26–3>
Skid Control ECU with Actuator<31–5>
EE
Near the Starter

4 AVENSIS VERSO / PICNIC (RHD) (Cont' d)

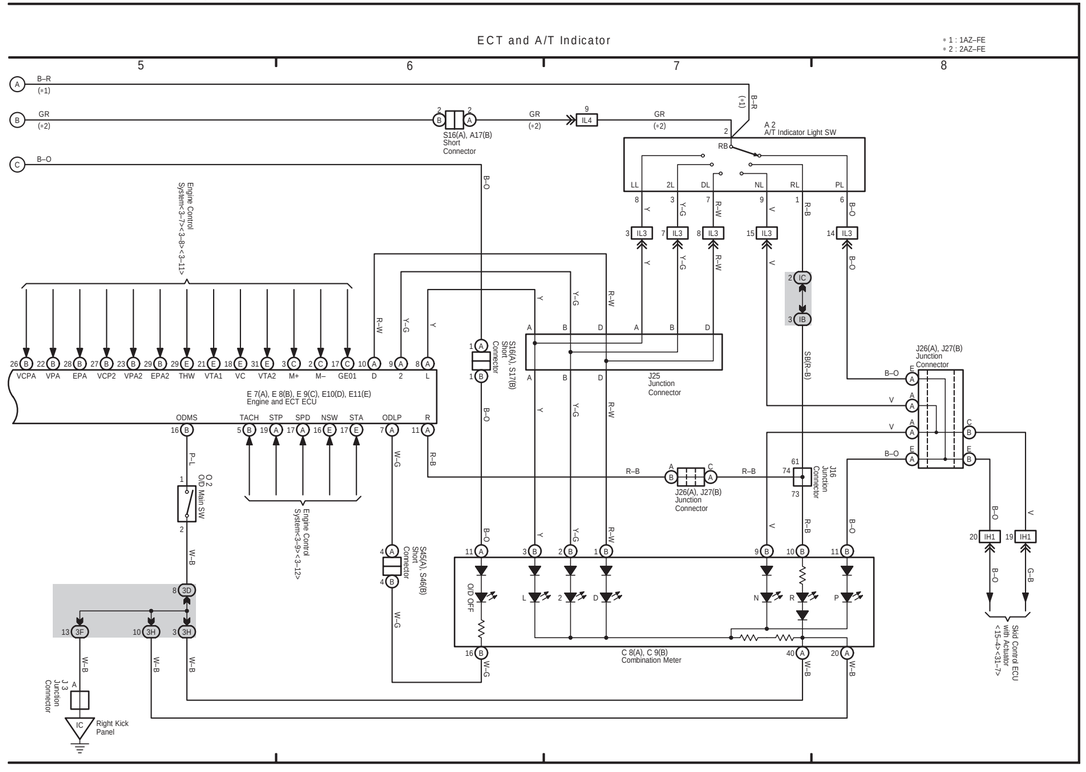

Engine Control (1CD–FTV)
Engine Immobilizer System (1CD–FTV)
13
14
15
16
F19 Fuse Holder
7. 5A MET–IG
C 8 Combination Meter
Check Engine
Glow
I11 Idle–Up SW
S16(A), S17(B) Short Connector
E 7(A), E 8(B), E10(C), E11(D) Engine ECU
W
GIND
IMO
IMI
HSW
TAC
TC
SIL
Skid Control ECU with Actuator <31–6><31–12>
Skid Control ECU with Actuator <15–4><31–6>
J25 Junction Connector
(w/ VSC)
D 6 DLC3
BATT
CANL
CANH
WFSE
TS
SG
J16 Junction Connector
Airbag Sensor Assembly <14–2>
Skid Control ECU with Actuator <15–4><31–6>
(w/ ABS)
J26(A), J27(B) Junction Connector
Combination Meter<27–8>
A/C Amplifier <29–9>
Theft Deterrent ECU<18–3>
J 3 Junction Connector
Right Kick Panel
T 8 Transponder Key Computer
D
EFIO
EFII
IG
+B
CTY
KSW
IND
GND
CODE
VC5
AGND
TXCT
I13 Transponder Key Amplifier
Door Courtesy SW Front RH<10–5>
Unlock Warning SW <16–2>
Theft Deterrent ECU<18–3>
C 8(A), C 9(B) Combination Meter
Security

5 AVENSIS VERSO / PICNIC (RHD)

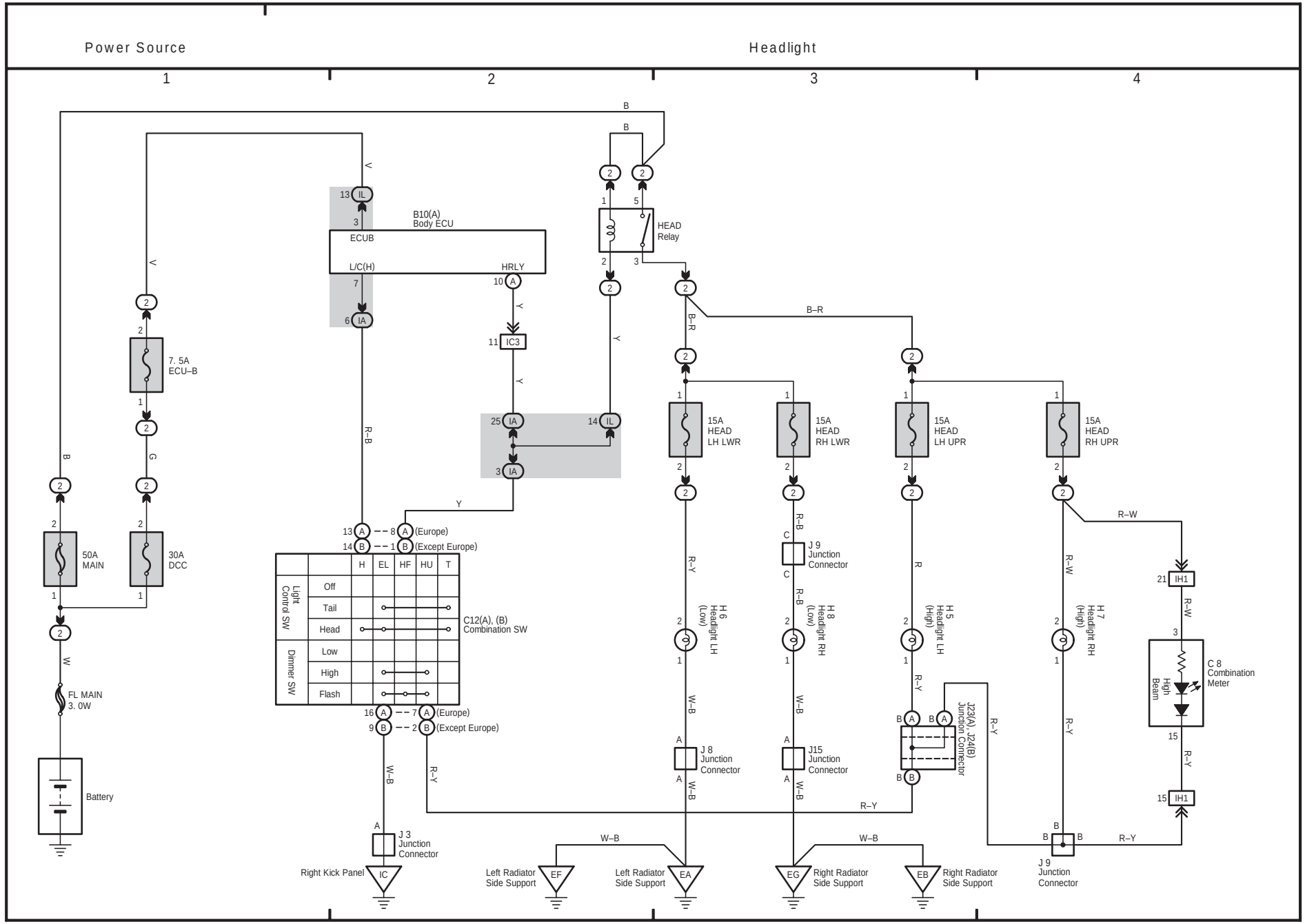
(Cont. next page)

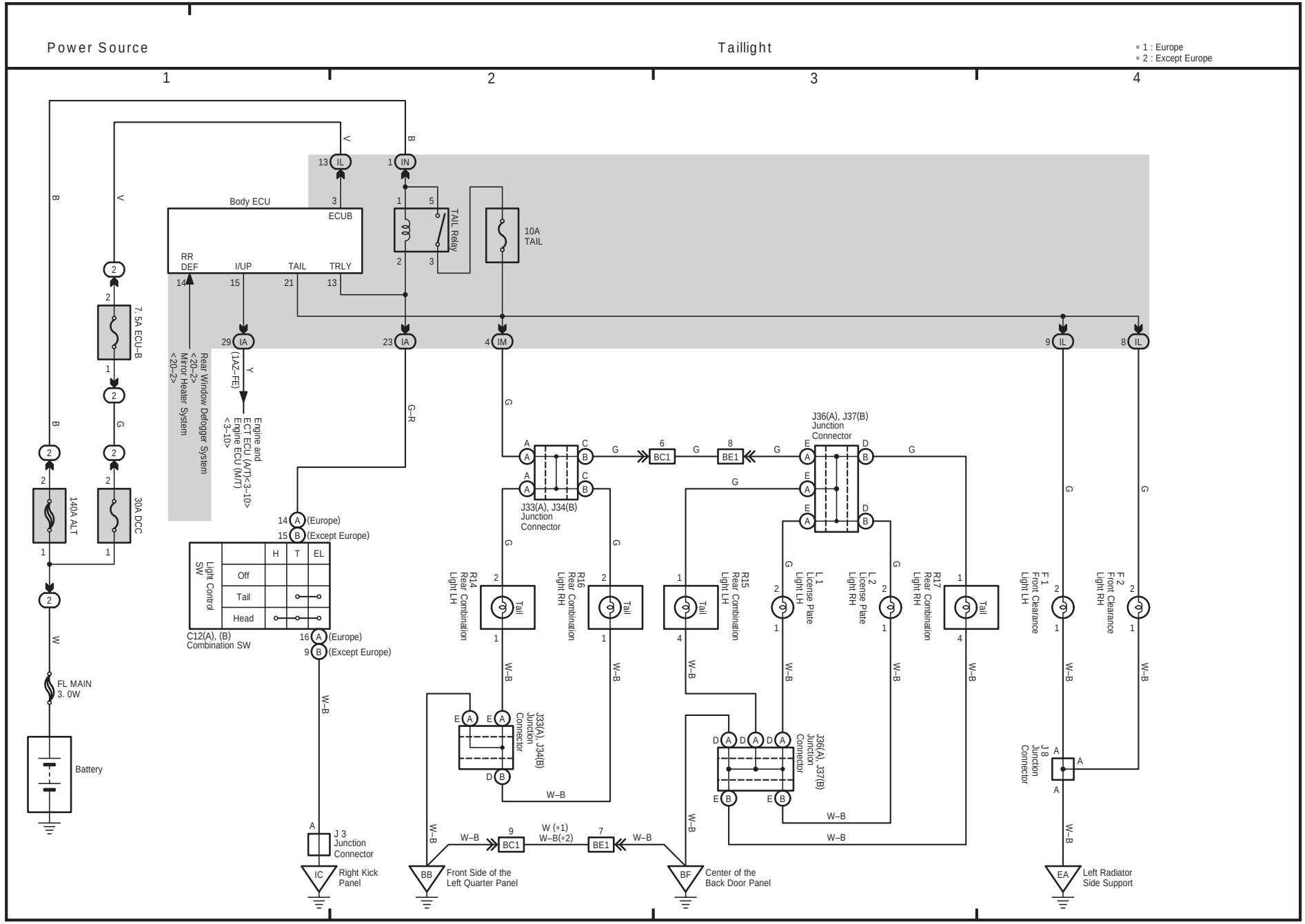


5 AVENSIS VERSO / PICNIC (RHD) (Cont' d)

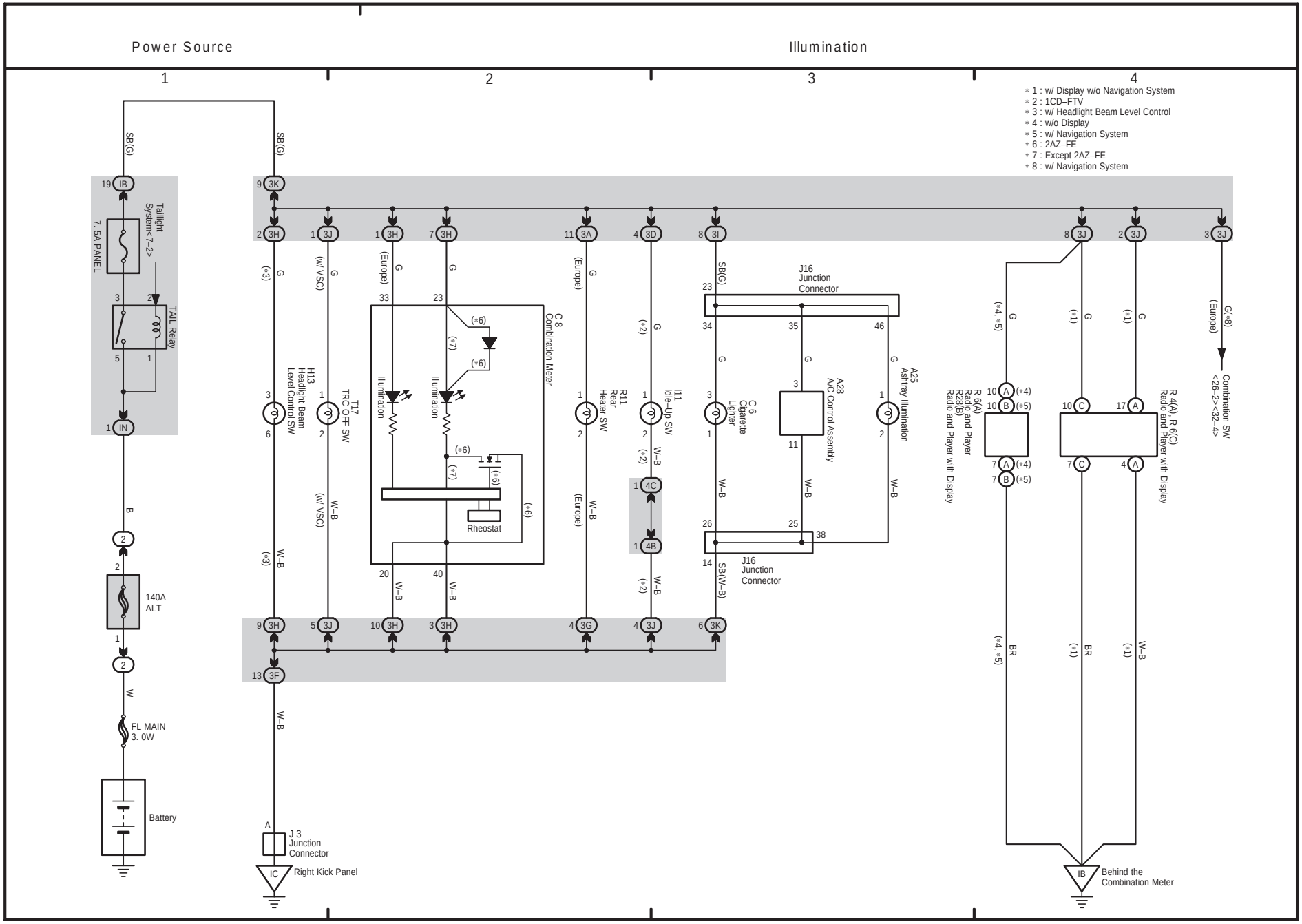


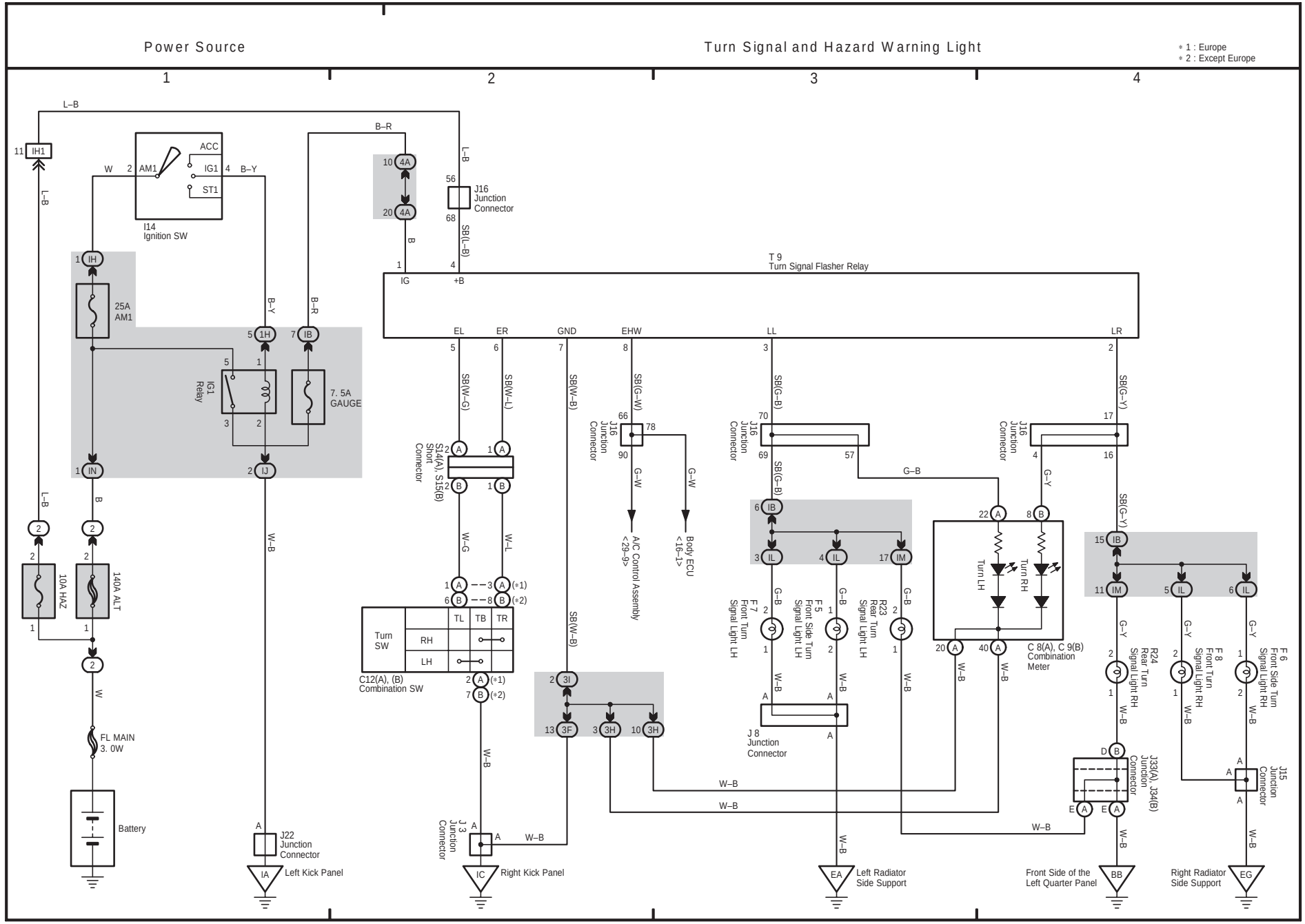
6 AVENSIS VERSO / PICNIC (RHD)



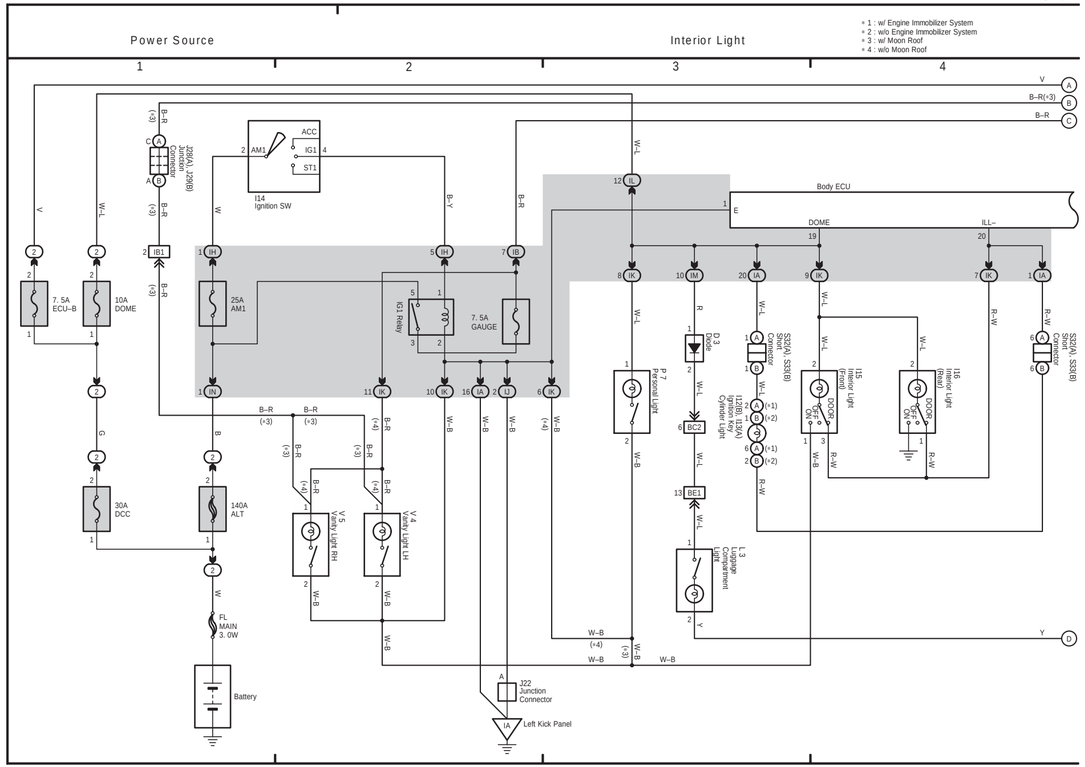

Power Source
Taillight
* 1 : Europe
* 2 : Except Europe
1
2
3
4
Body ECU
ECUB
RR DEF
I/UP
TAIL
TRLY
TAIL Relay
10A TAIL
7.5A ECU-B
140A ALT
30A DCC
FL MAIN 3.0W
Battery
Rear Window Defogger System <20-2>
Mirror Heater System <20-2>
Engine and ECT ECU (A/T)<3-10>
Engine ECU (M/T) <3-10>
(1AZ-FE)
C12(A), (B) Combination SW
Light Control SW
Off
Tail
Head
(Europe)
(Except Europe)
J3 Junction Connector
J33(A), J34(B) Junction Connector
J36(A), J37(B) Junction Connector
J8 Junction Connector
R14 Rear Combination Light LH
R16 Rear Combination Light RH
R15 Rear Combination Light LH
R17 Rear Combination Light RH
L1 License Plate Light LH
L2 License Plate Light RH
F1 Front Clearance Light LH
F2 Front Clearance Light RH
Tail
BC1
BE1
W (*1)
W-B(*2)
IC Right Kick Panel
BB Front Side of the Left Quarter Panel
BF Center of the Back Door Panel
EA Left Radiator Side Support

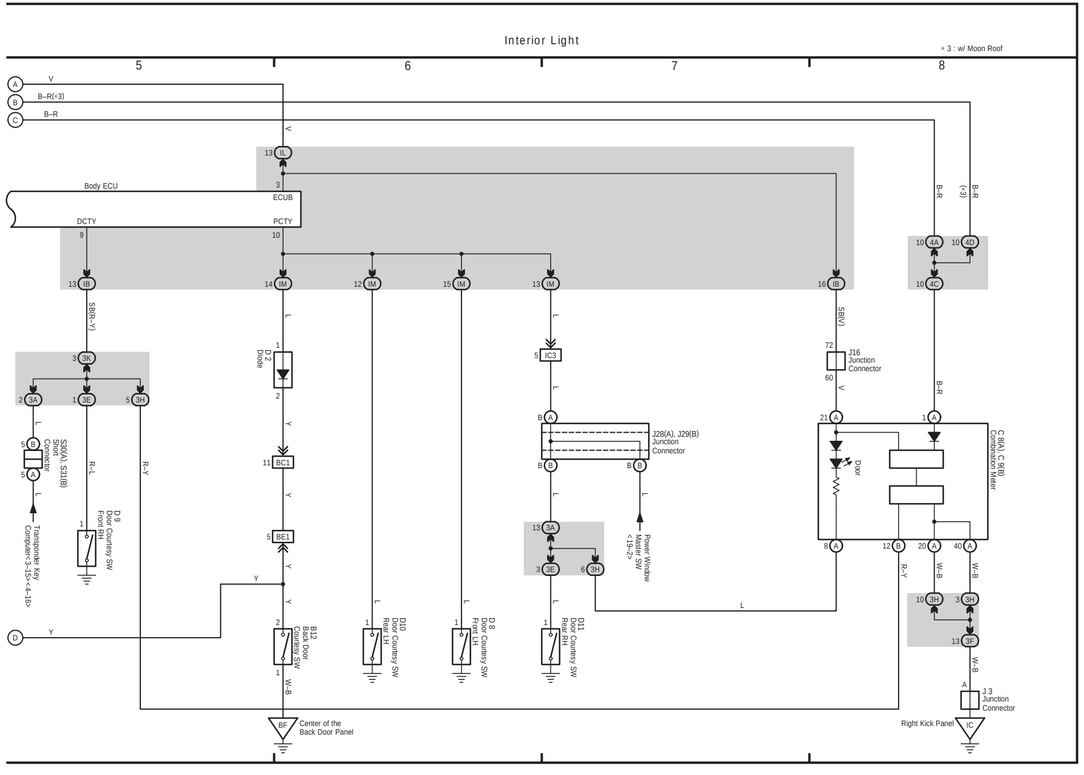
8 AVENSIS VERSO / PICNIC (RHD)



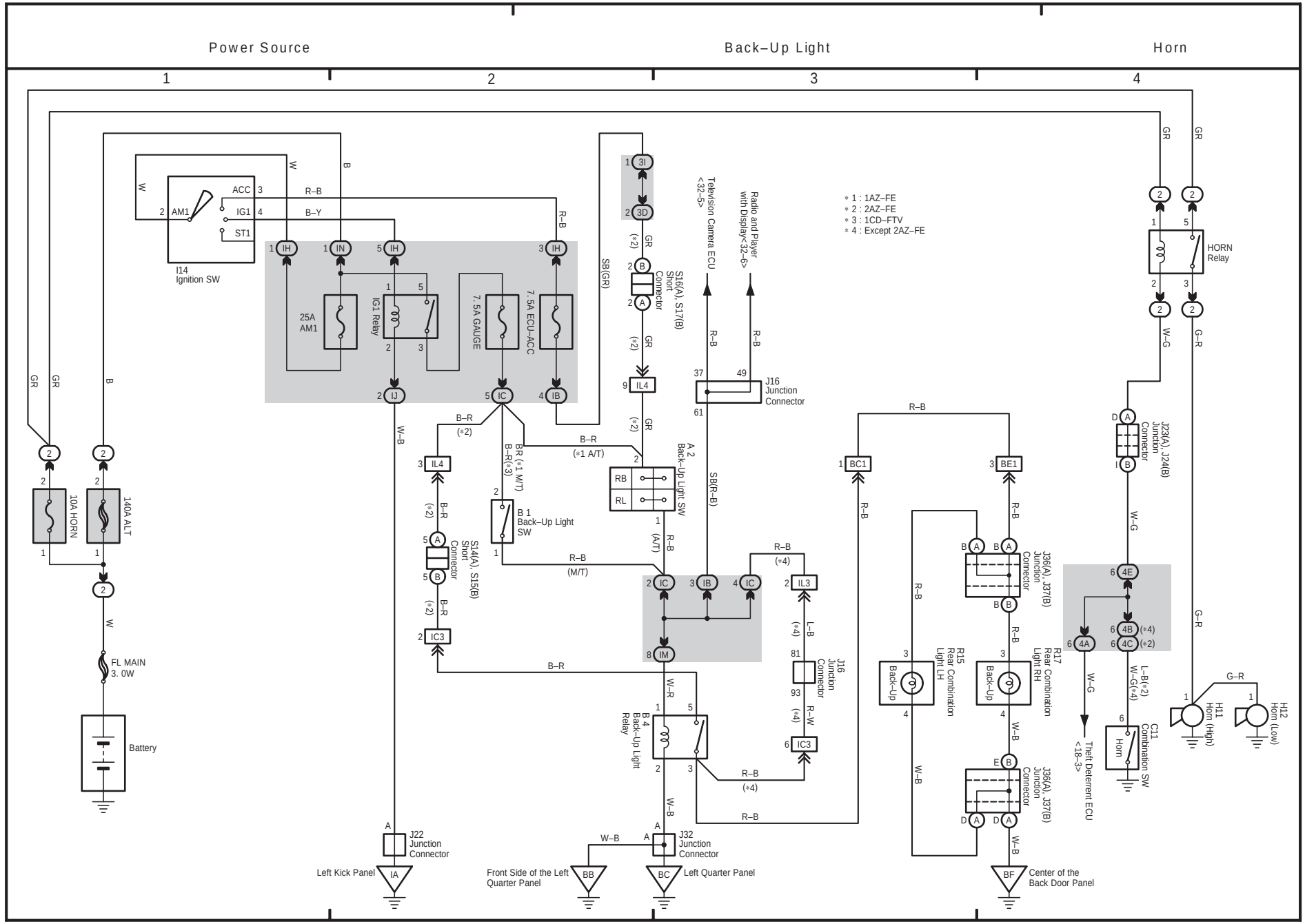

Power Source
Turn Signal and Hazard Warning Light
* 1 : Europe
* 2 : Except Europe
1
2
3
4
L–B
B–R
B–Y
W–B
G–B
G–W
G–Y
SB(G–B)
SB(G–W)
SB(G–Y)
SB(W–G)
SB(W–L)
SB(W–B)
SB(L–B)
W–G
W–L
B
W
ACC
IG1
ST1
AM1
I14
Ignition SW
IH1
IH
IN
IG
+B
25A
AM1
IG1
Relay
7. 5A
GAUGE
1IH
IB
IJ
T 9
Turn Signal Flasher Relay
EL
ER
GND
EHW
LL
LR
10A HAZ
140A ALT
FL MAIN
3. 0W
Battery
J22
Junction
Connector
IA
Left Kick Panel
S14(A), S15(B)
Short
Connector
J16
Junction
Connector
A/C Control Assembly
<29–9>
Body ECU
<16–1>
Turn
SW
RH
LH
TL
TB
TR
C12(A), (B)
Combination SW
J 3
Junction
Connector
IC
Right Kick Panel
3I
3F
3H
J 8
Junction
Connector
F 7
Front Turn
Signal Light LH
F 5
Front Side Turn
Signal Light LH
R23
Rear Turn
Signal Light LH
Turn LH
Turn RH
C 8(A), C 9(B)
Combination
Meter
IL
IM
R24
Rear Turn
Signal Light RH
F 8
Front Turn
Signal Light RH
F 6
Front Side Turn
Signal Light RH
J33(A), J34(B)
Junction
Connector
J15
Junction
Connector
Front Side of the
Left Quarter Panel
BB
Right Radiator
Side Support
EG
Left Radiator
Side Support
EA

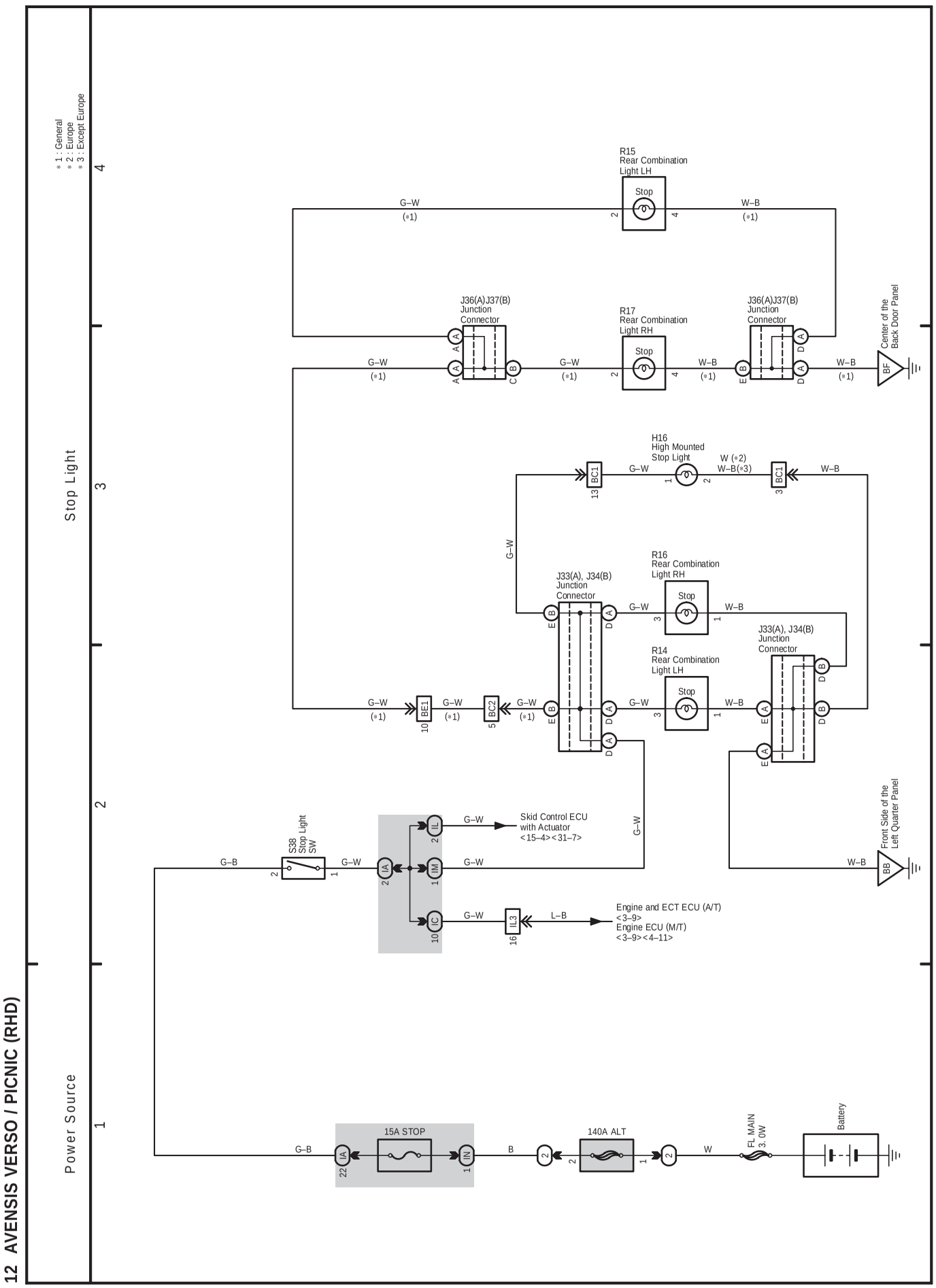
(Cont. next page)



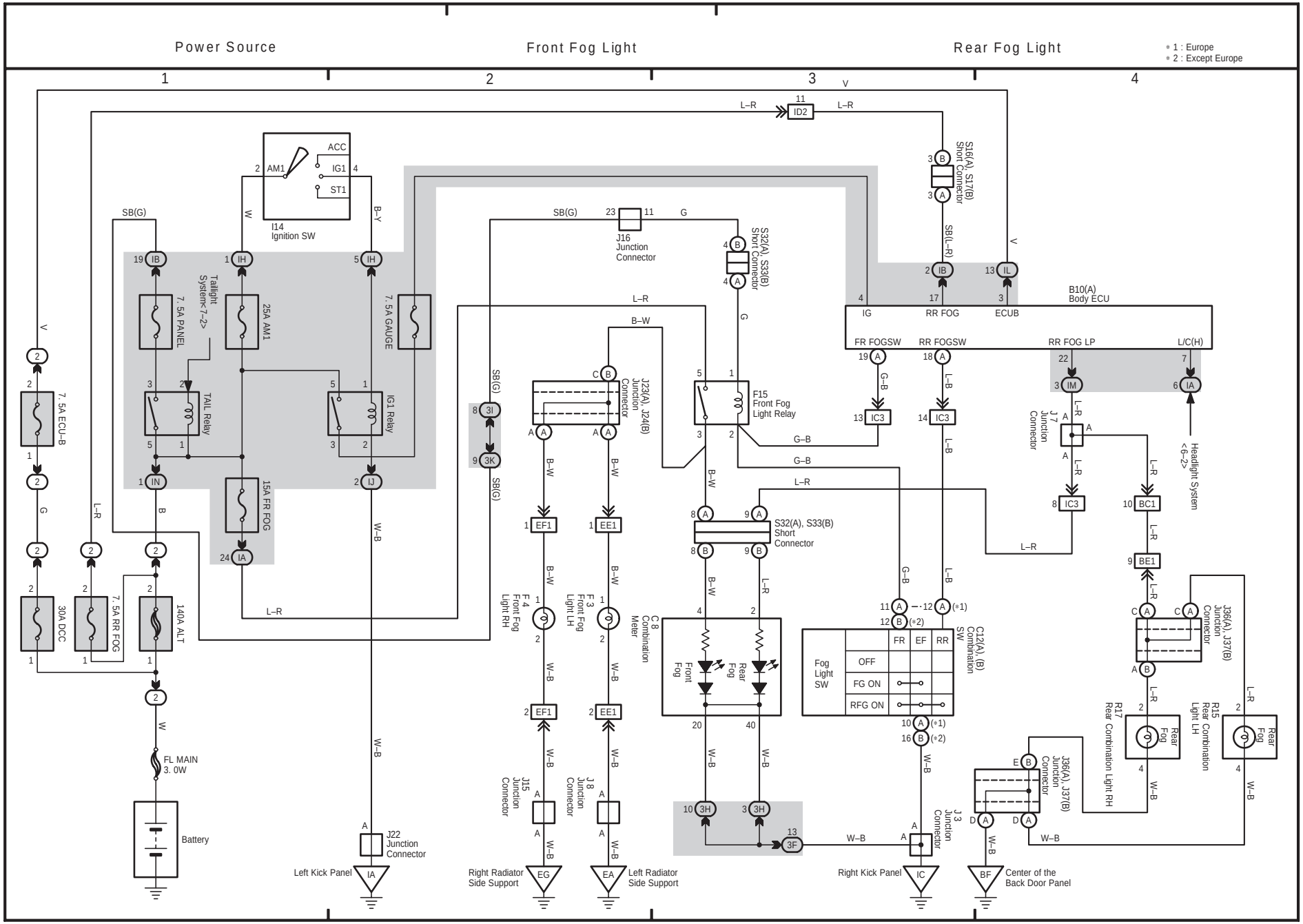


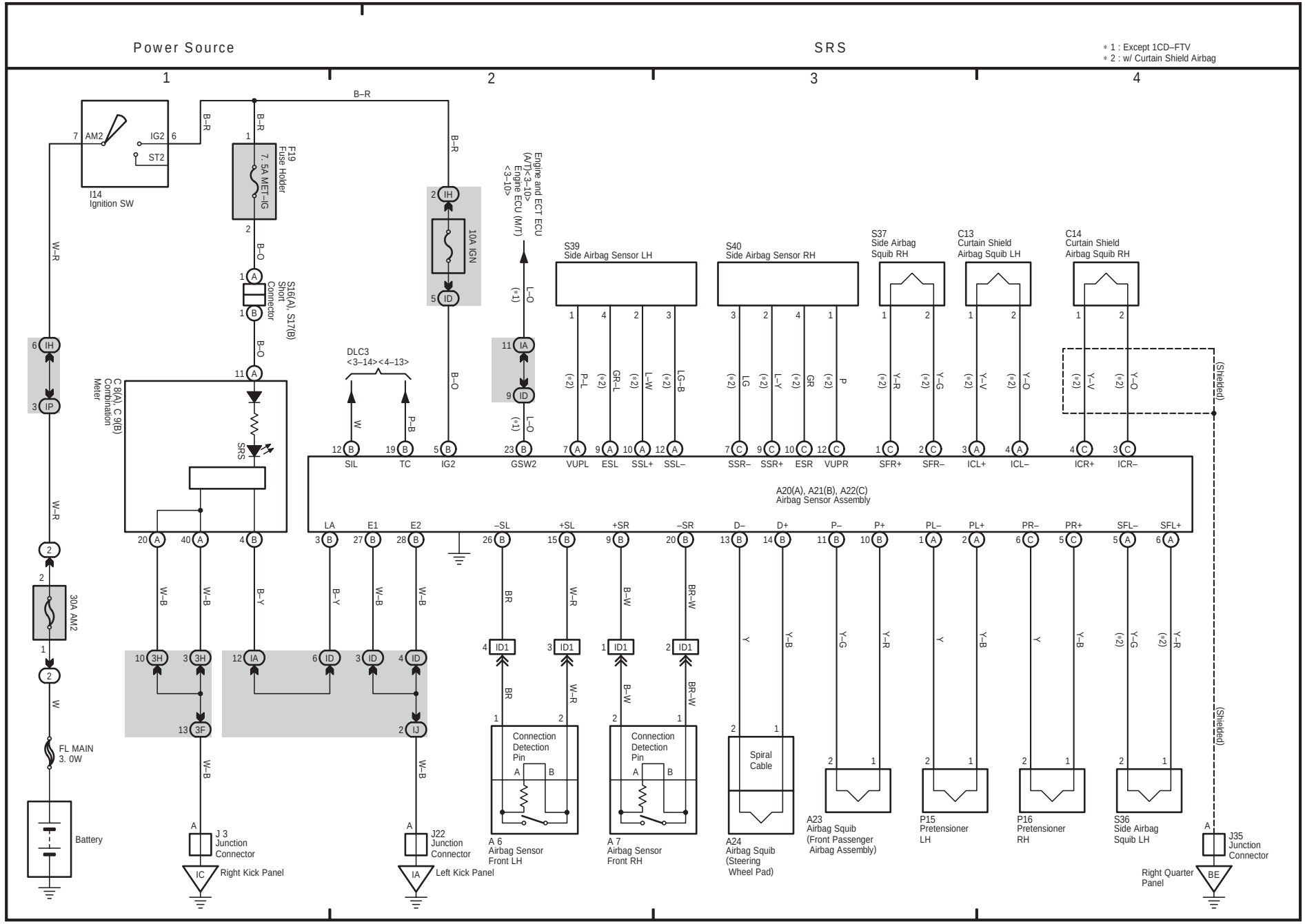
11 AVENSIS VERSO / PICNIC (RHD)



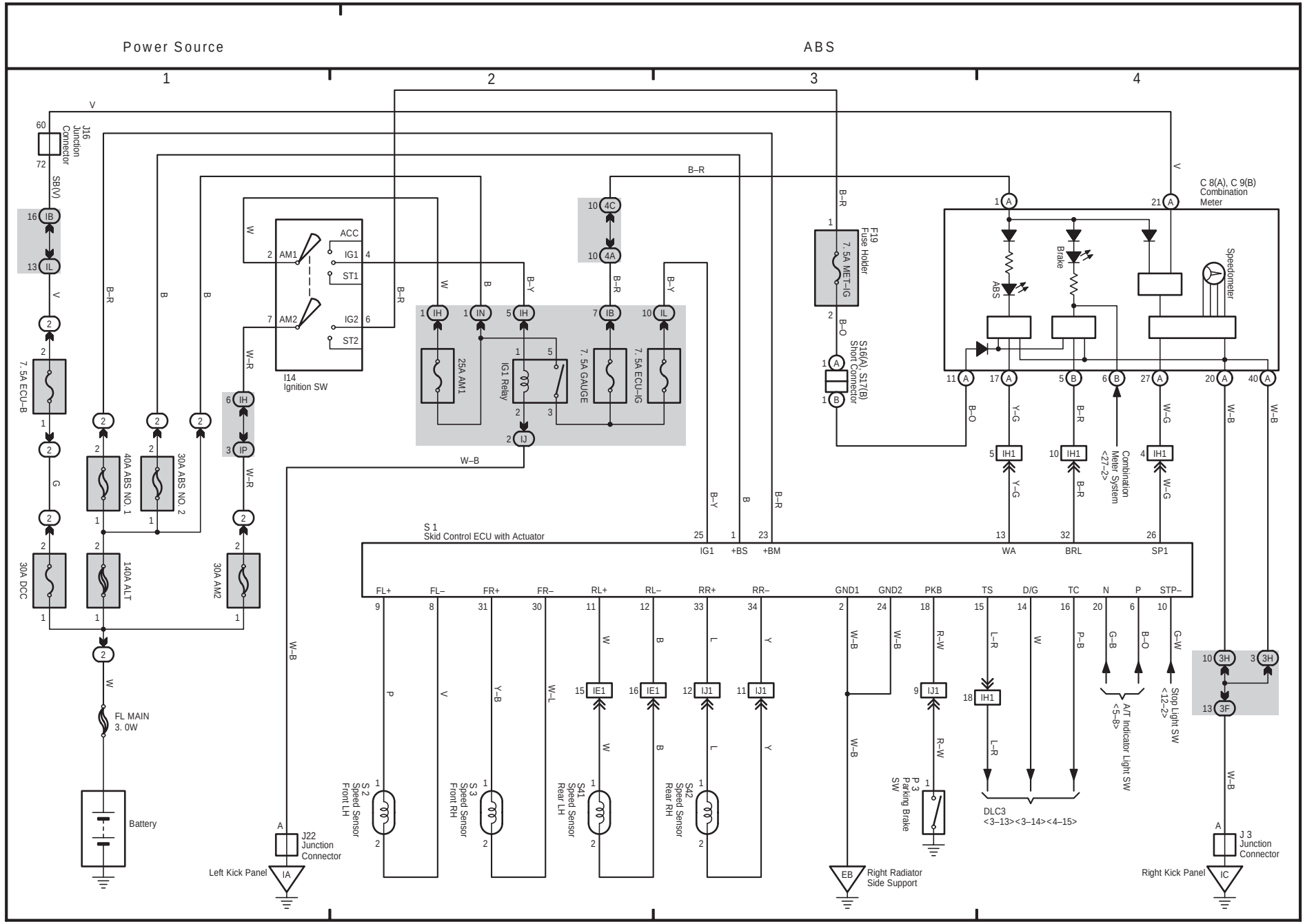

12 AVENSIS VERSO / PICNIC (RHD)
Power Source
Stop Light
1
2
3
4
＊1 : General
＊2 : Europe
＊3 : Except Europe
R15
Rear Combination
Light LH
Stop
G–W
(＊1)
W–B
(＊1)
J36(A)J37(B)
Junction
Connector
R17
Rear Combination
Light RH
Center of the
Back Door Panel
BF
H16
High Mounted
Stop Light
W (＊2)
W–B(＊3)
BC1
R16
Rear Combination
Light RH
J33(A), J34(B)
Junction
Connector
R14
Rear Combination
Light LH
BE1
BC2
S38
Stop Light
SW
Skid Control ECU
with Actuator
<15–4><31–7>
Front Side of the
Left Quarter Panel
BB
Engine and ECT ECU (A/T)
<3–9>
Engine ECU (M/T)
<3–9><4–11>
IL3
L–B
15A STOP
140A ALT
FL MAIN
3. 0W
Battery
G–B
B
W

13 AVENSIS VERSO / PICNIC (RHD)




Power Source
SRS
* 1 : Except 1CD–FTV
* 2 : w/ Curtain Shield Airbag
1
2
3
4
I14
Ignition SW
F19
Fuse Holder
7. 5A MET–IG
10A IGN
S16(A), S17(B)
Short
Connector
C 8(A), C 9(B)
Combination
Meter
DLC3
<3–14><4–13>
Engine and ECT ECU
(A/T)<3–10>
Engine ECU (M/T)
<3–10>
S39
Side Airbag Sensor LH
S40
Side Airbag Sensor RH
S37
Side Airbag
Squib RH
C13
Curtain Shield
Airbag Squib LH
C14
Curtain Shield
Airbag Squib RH
A20(A), A21(B), A22(C)
Airbag Sensor Assembly
30A AM2
FL MAIN
3. 0W
Battery
J 3
Junction
Connector
Right Kick Panel
J22
Junction
Connector
Left Kick Panel
A 6
Airbag Sensor
Front LH
A 7
Airbag Sensor
Front RH
Connection
Detection
Pin
Spiral
Cable
A24
Airbag Squib
(Steering
Wheel Pad)
A23
Airbag Squib
(Front Passenger
Airbag Assembly)
P15
Pretensioner
LH
P16
Pretensioner
RH
S36
Side Airbag
Squib LH
J35
Junction
Connector
Right Quarter
Panel
(Shielded)
SIL
TC
IG2
GSW2
VUPL
ESL
SSL+
SSL–
SSR–
SSR+
ESR
VUPR
SFR+
SFR–
ICL+
ICL–
ICR+
ICR–
LA
E1
E2
–SL
+SL
+SR
–SR
D–
D+
P–
P+
PL–
PL+
PR–
PR+
SFL–
SFL+

15 AVENSIS VERSO / PICNIC (RHD)



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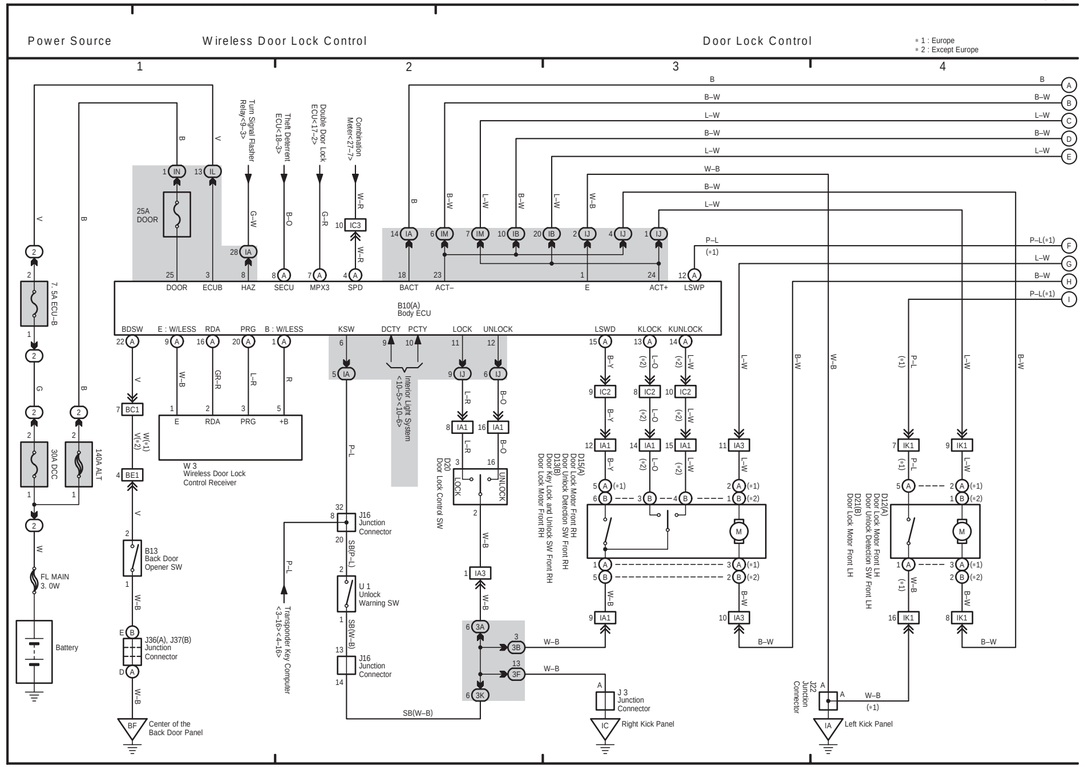
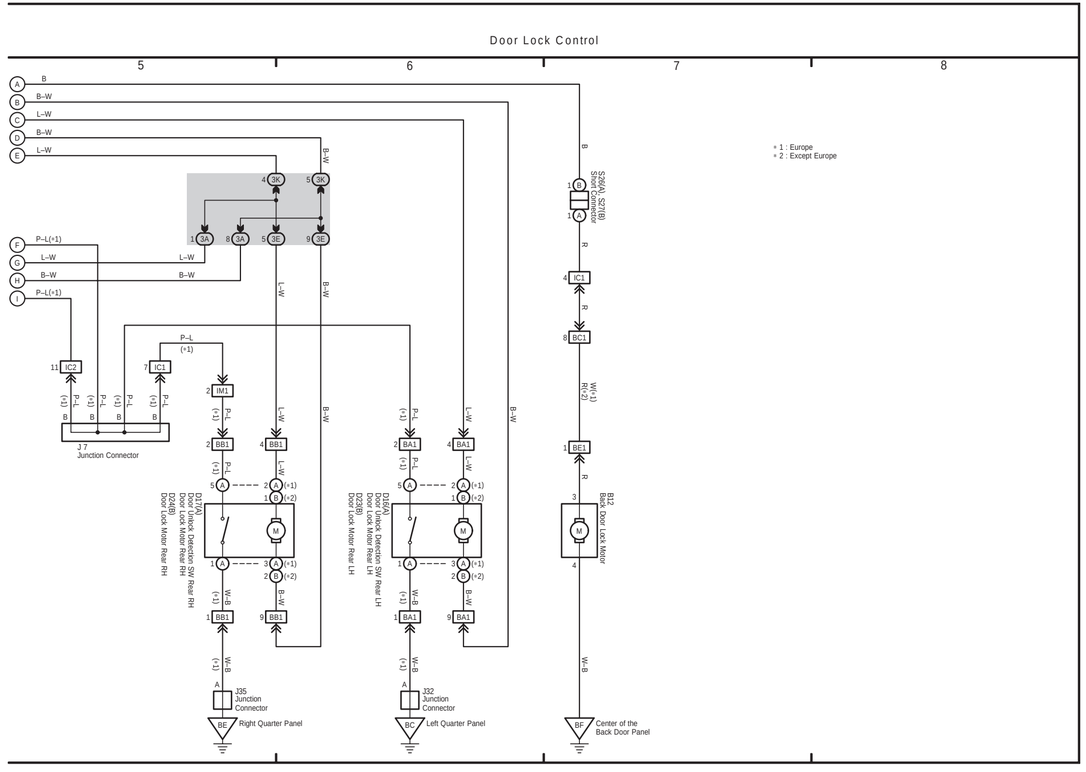
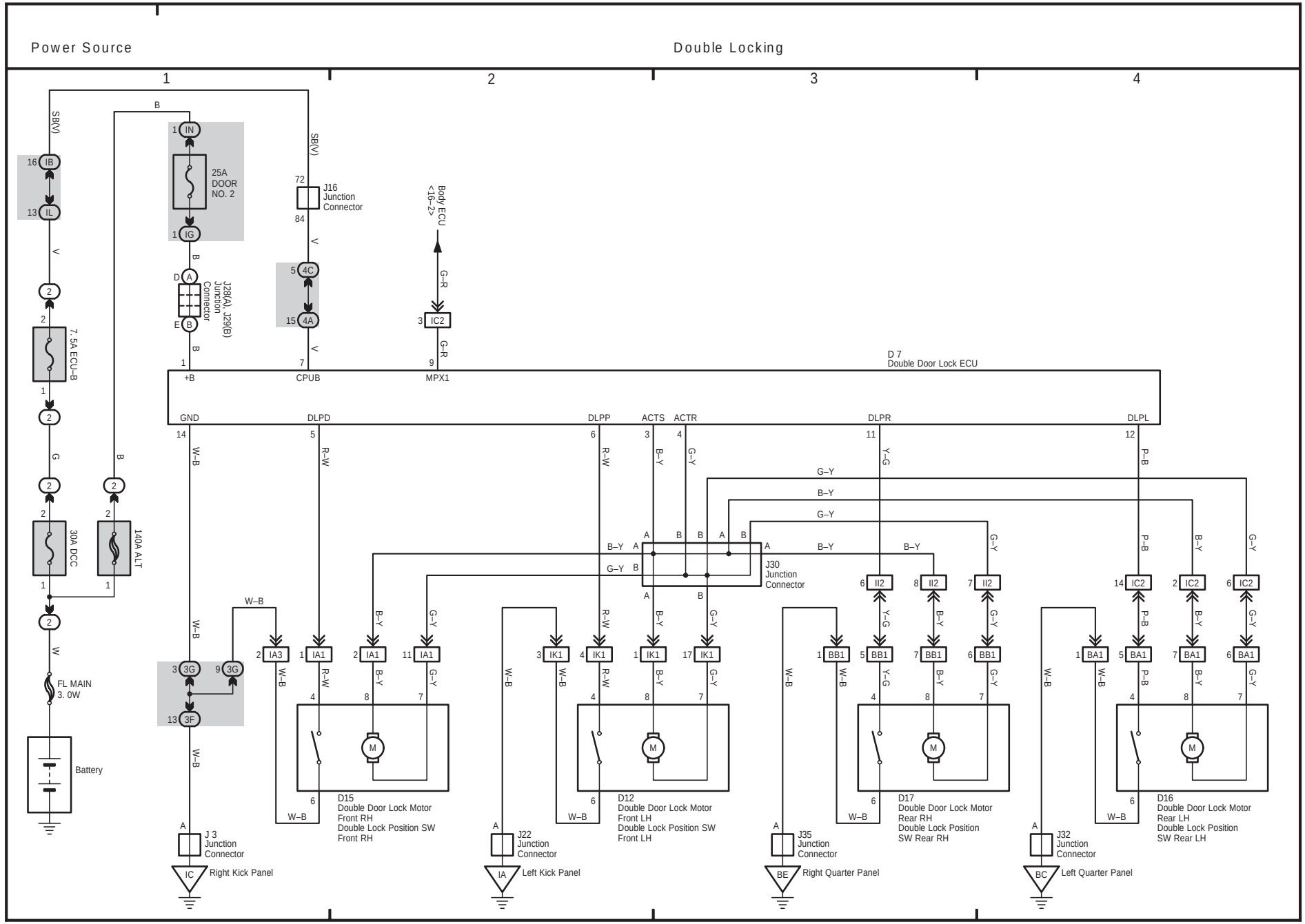
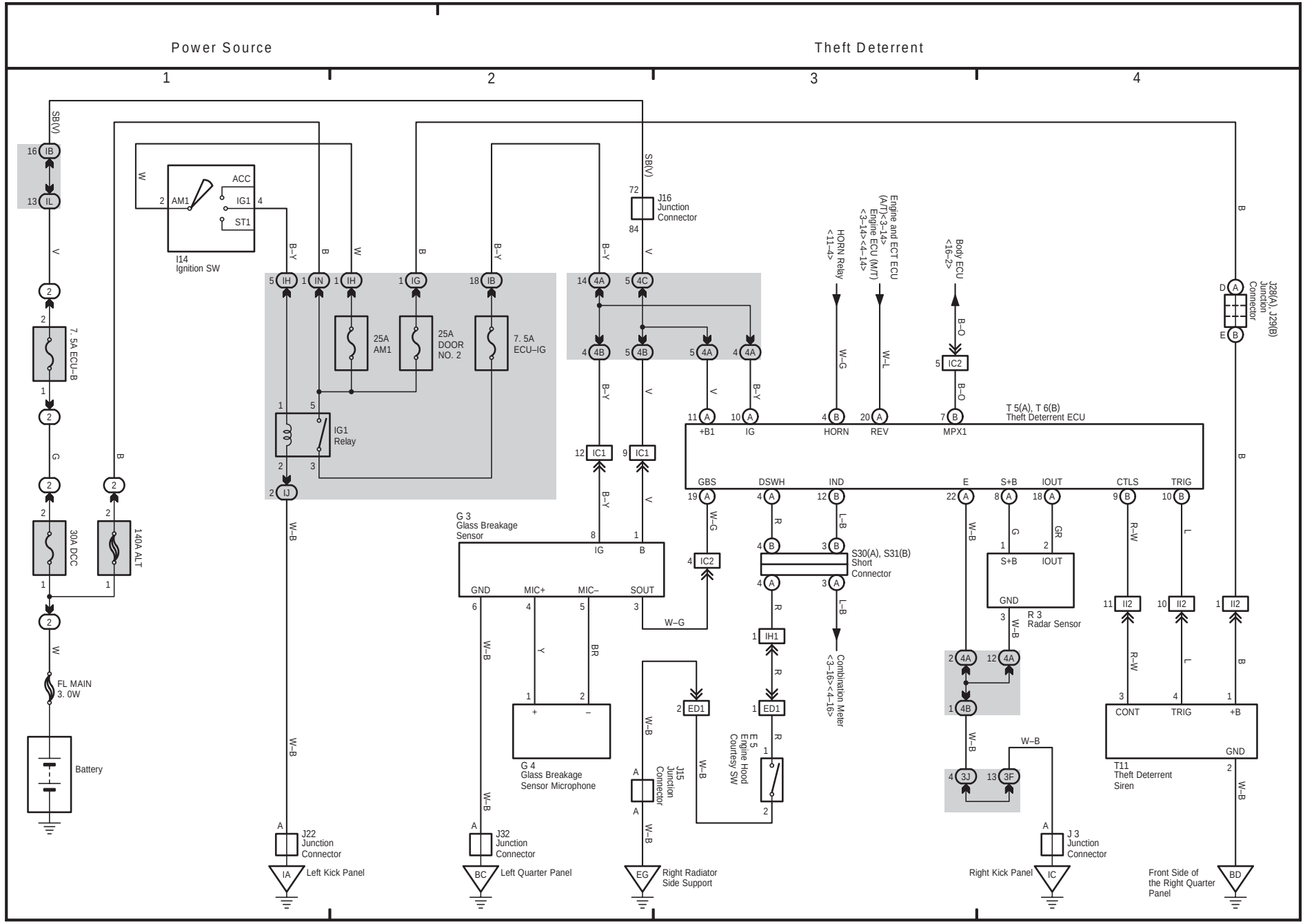




17 AVENSIS VERSO / PICNIC (RHD)




Power Source
Theft Deterrent
1
2
3
4
SB(V)
16 IB
13 IL
2
7. 5A ECU–B
G
30A DCC
140A ALT
W
FL MAIN
3. 0W
Battery
W
ACC
2 AM1
IG1 4
ST1
I14
Ignition SW
B–Y
B
W
5 IH
1 IN
1 IH
1 IG
18 IB
25A
AM1
25A
DOOR
NO. 2
7. 5A
ECU–IG
1 5
IG1
Relay
2 3
2 IJ
W–B
A
J22
Junction
Connector
IA
Left Kick Panel
14 4A
5 4C
4 4B
5 4B
5 4A
4 4A
B–Y
V
12 IC1
9 IC1
B–Y
V
G 3
Glass Breakage
Sensor
8
IG
1
B
GND
MIC+
MIC–
SOUT
6
4
5
3
W–B
Y
BR
1
2
+
–
G 4
Glass Breakage
Sensor Microphone
A
J32
Junction
Connector
BC
Left Quarter Panel
W–G
4 IC2
W–G
A
J15
Junction
Connector
A
W–B
EG
Right Radiator
Side Support
2 ED1
W–B
1 ED1
R
E 5
Engine Hood
Courtesy SW
2
SB(V)
72
J16
Junction
Connector
84
V
HORN Relay
<11–4>
W–G
Engine and ECT ECU
(A/T)<3–14>
Engine ECU (M/T)
<3–14><4–14>
W–L
Body ECU
<16–2>
B–O
5 IC2
B–O
11 A
+B1
10 A
IG
4 B
HORN
20 A
REV
7 B
MPX1
T 5(A), T 6(B)
Theft Deterrent ECU
B–Y
V
B–Y
R
4 IH1
R
1 ED1
R
Combination Meter
<3–16><4–16>
GBS
DSWH
IND
E
S+B
IOUT
CTLS
TRIG
19 A
4 A
12 B
22 A
8 A
18 A
9 B
10 B
W–G
L–B
W–B
G
GR
R–W
L
4 B
3 B
S30(A), S31(B)
Short
Connector
4 A
3 A
L–B
1
2
S+B
IOUT
GND
3
W–B
R 3
Radar Sensor
2 4A
12 4A
1 4B
4 3J
13 3F
W–B
A
J 3
Junction
Connector
Right Kick Panel
IC
11 II2
10 II2
1 II2
R–W
L
B
3
4
1
CONT
TRIG
+B
GND
2
T11
Theft Deterrent
Siren
W–B
D A
E B
J28(A), J29(B)
Junction
Connector
B
Front Side of
the Right Quarter
Panel
BD

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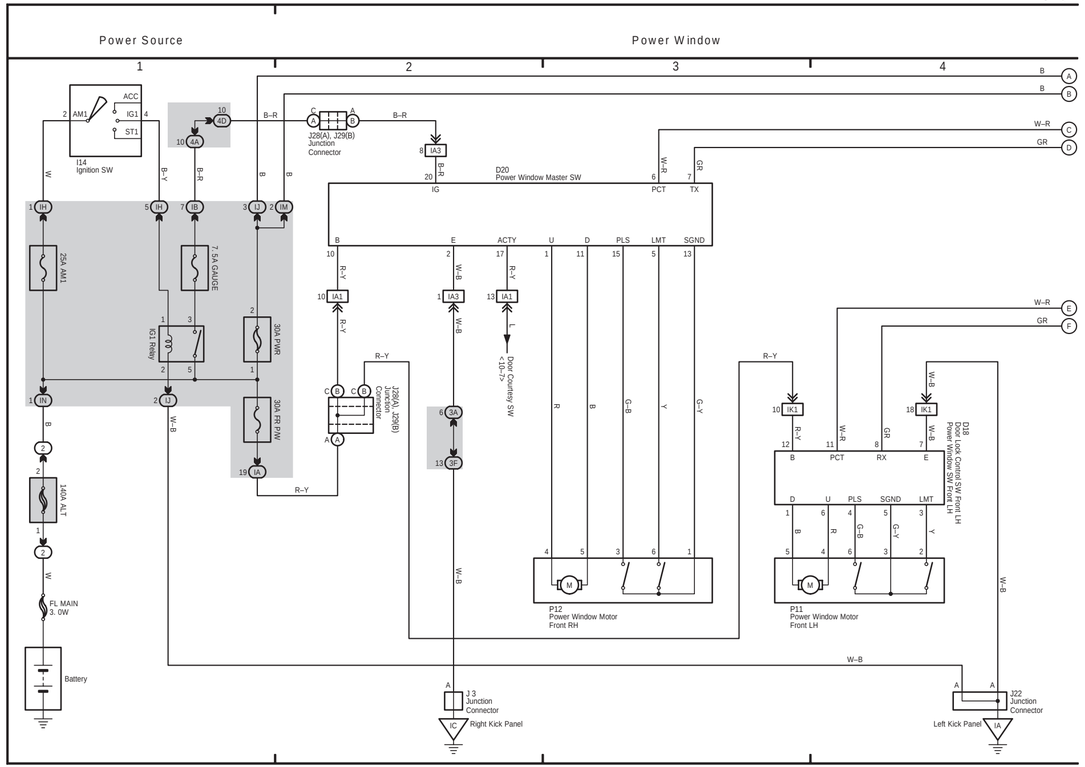
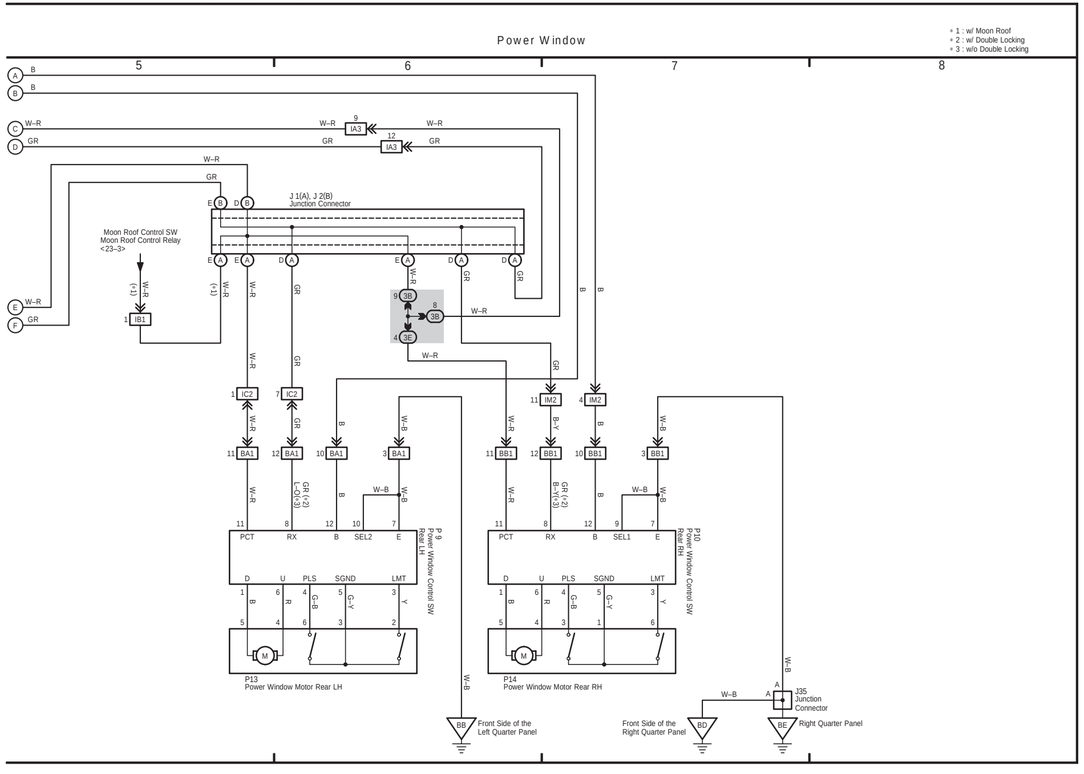
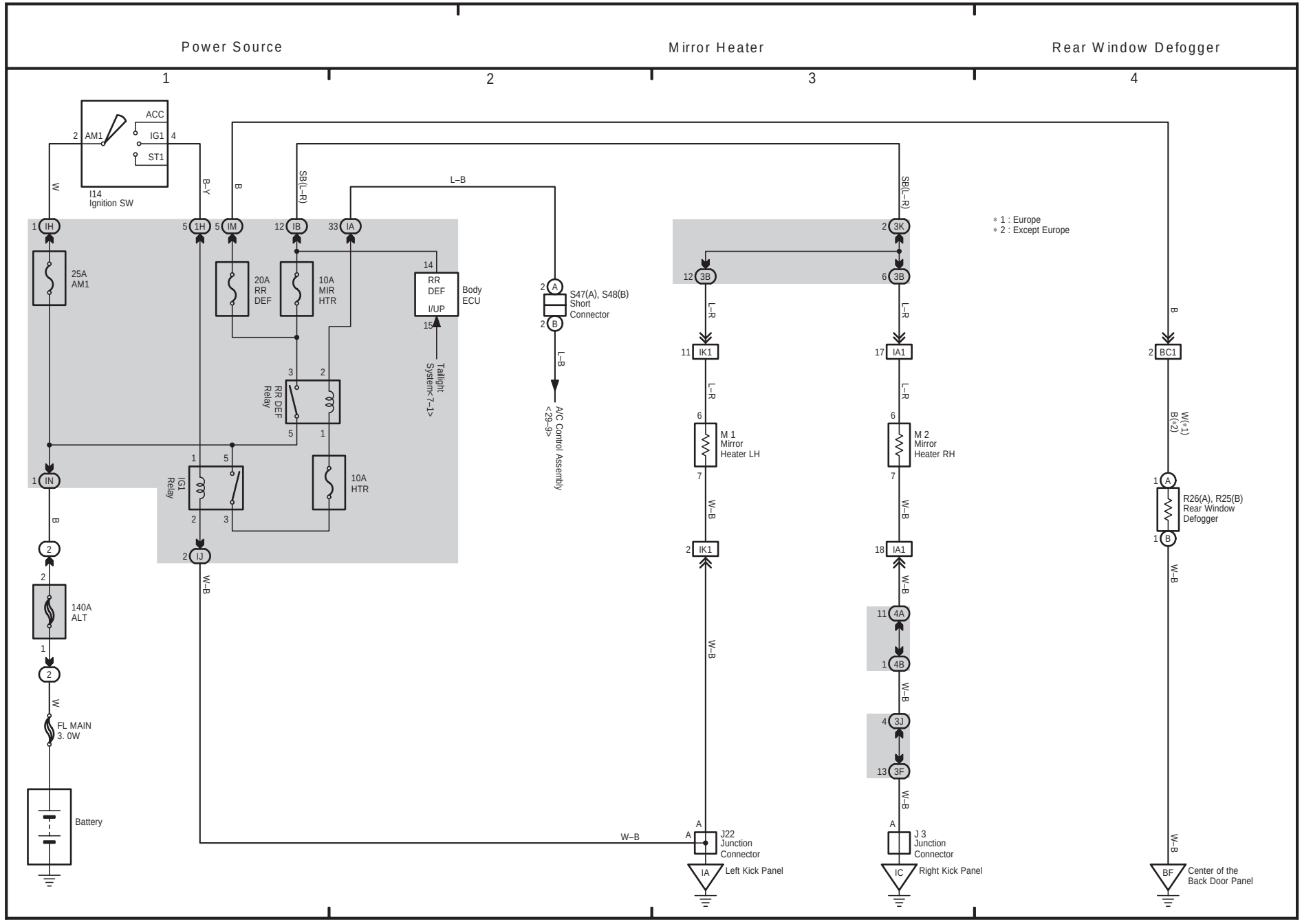
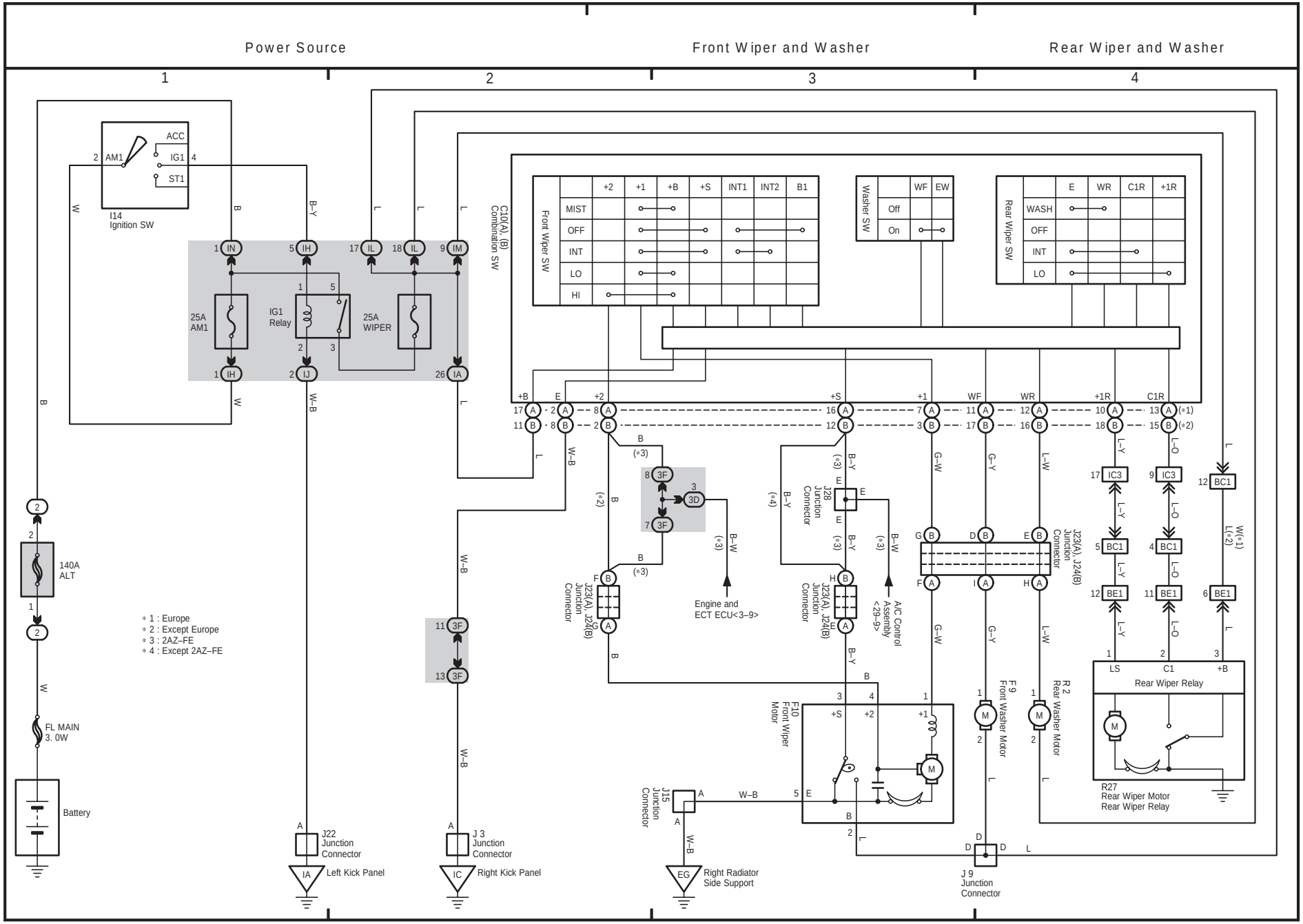


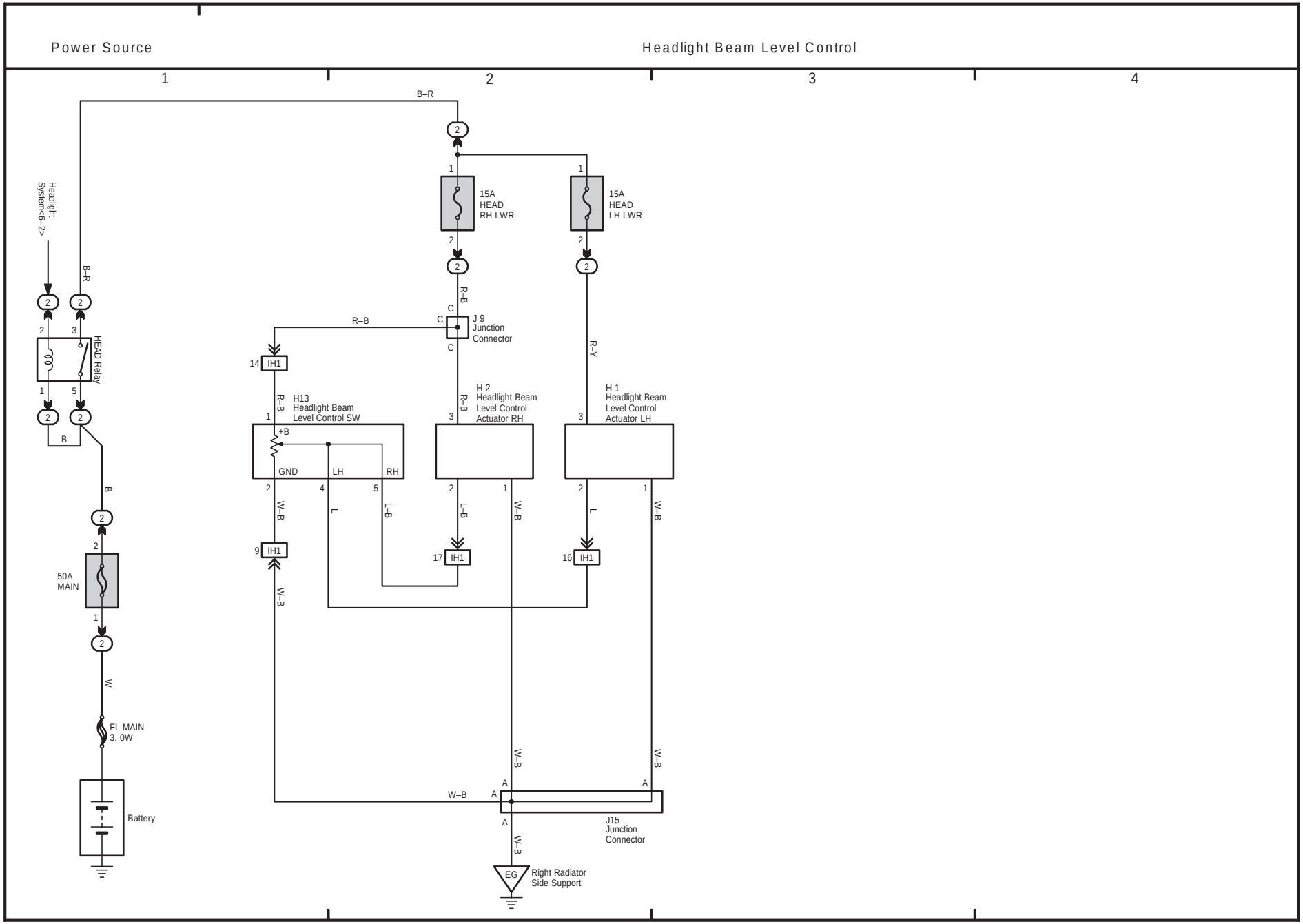


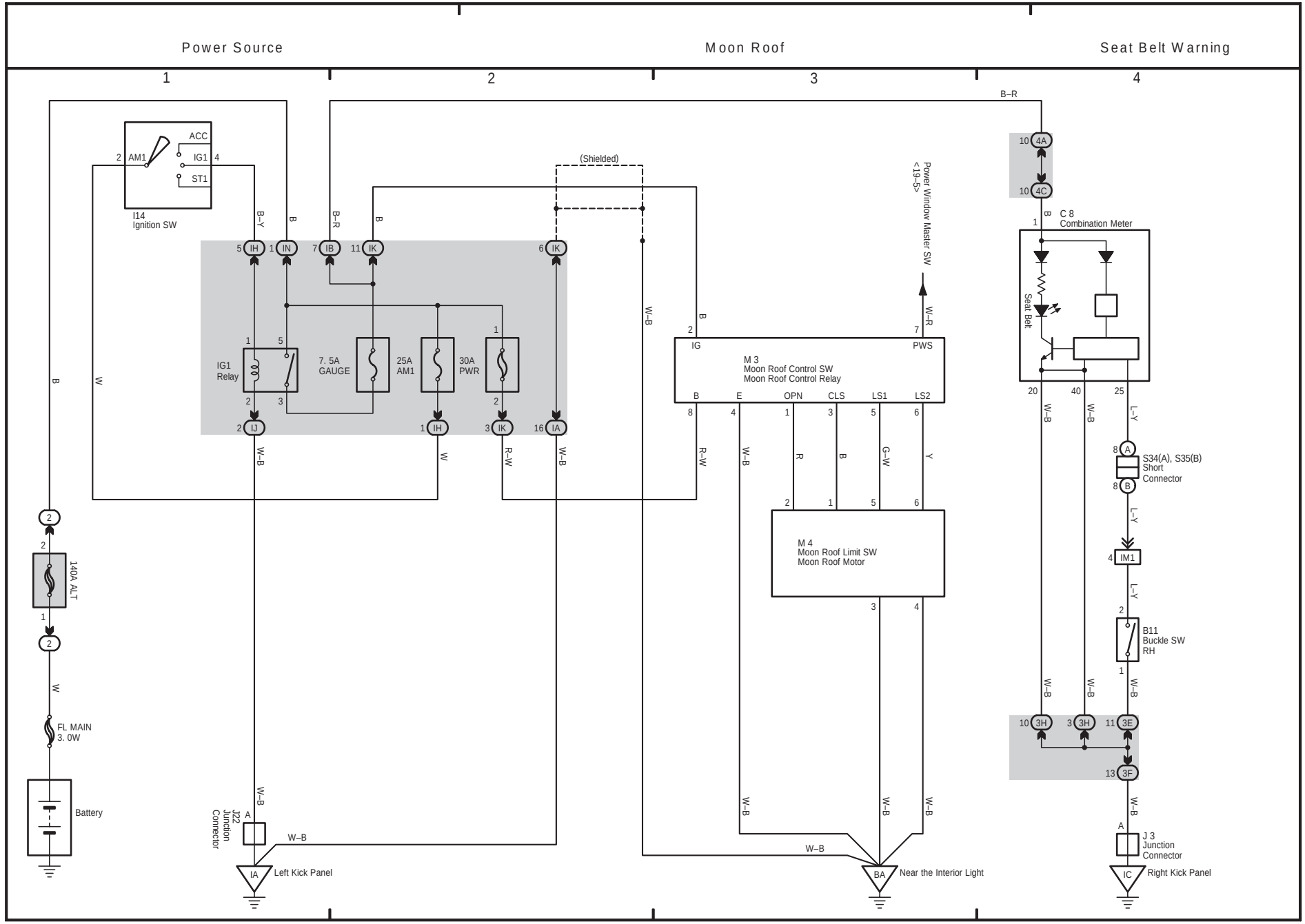
20 AVENSIS VERSO / PICNIC (RHD)



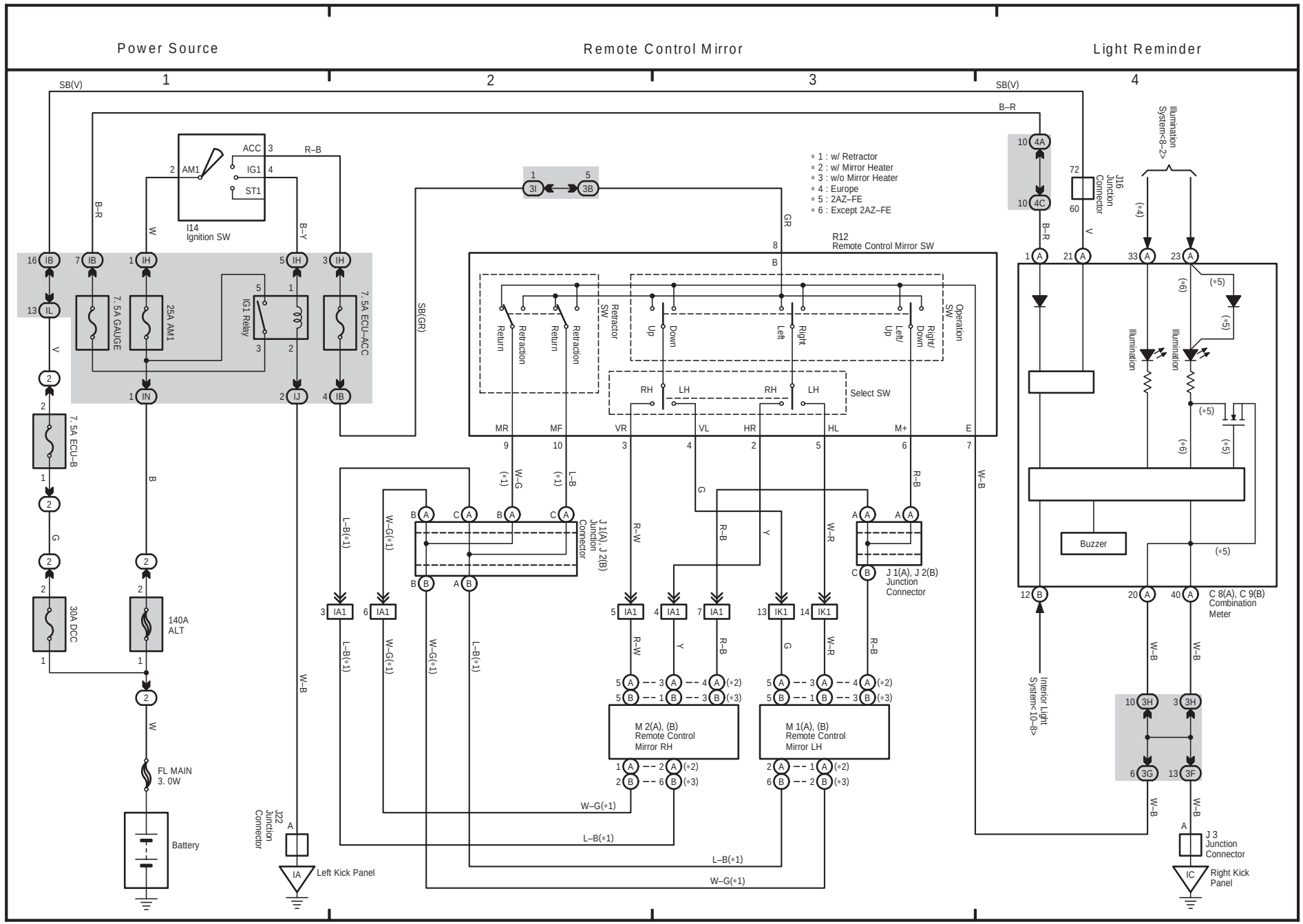

Power Source
Front Wiper and Washer
Rear Wiper and Washer
1
2
3
4
ACC
IG1
ST1
AM1
I14
Ignition SW
25A
AM1
IG1
Relay
25A
WIPER
C10(A), (B)
Combination SW
Front Wiper SW
MIST
OFF
INT
LO
HI
Washer SW
Off
On
Rear Wiper SW
WASH
OFF
INT
LO
140A
ALT
FL MAIN
3. 0W
Battery
* 1 : Europe
* 2 : Except Europe
* 3 : 2AZ–FE
* 4 : Except 2AZ–FE
J22
Junction
Connector
Left Kick Panel
J 3
Junction
Connector
Right Kick Panel
J28
Junction
Connector
J23(A), J24(B)
Junction
Connector
Engine and
ECT ECU<3–9>
A/C Control
Assembly
<29–9>
F10
Front Wiper
Motor
J15
Junction
Connector
Right Radiator
Side Support
F 9
Front Washer Motor
R 2
Rear Washer Motor
J 9
Junction
Connector
Rear Wiper Relay
LS
C1
+B
R27
Rear Wiper Motor
Rear Wiper Relay

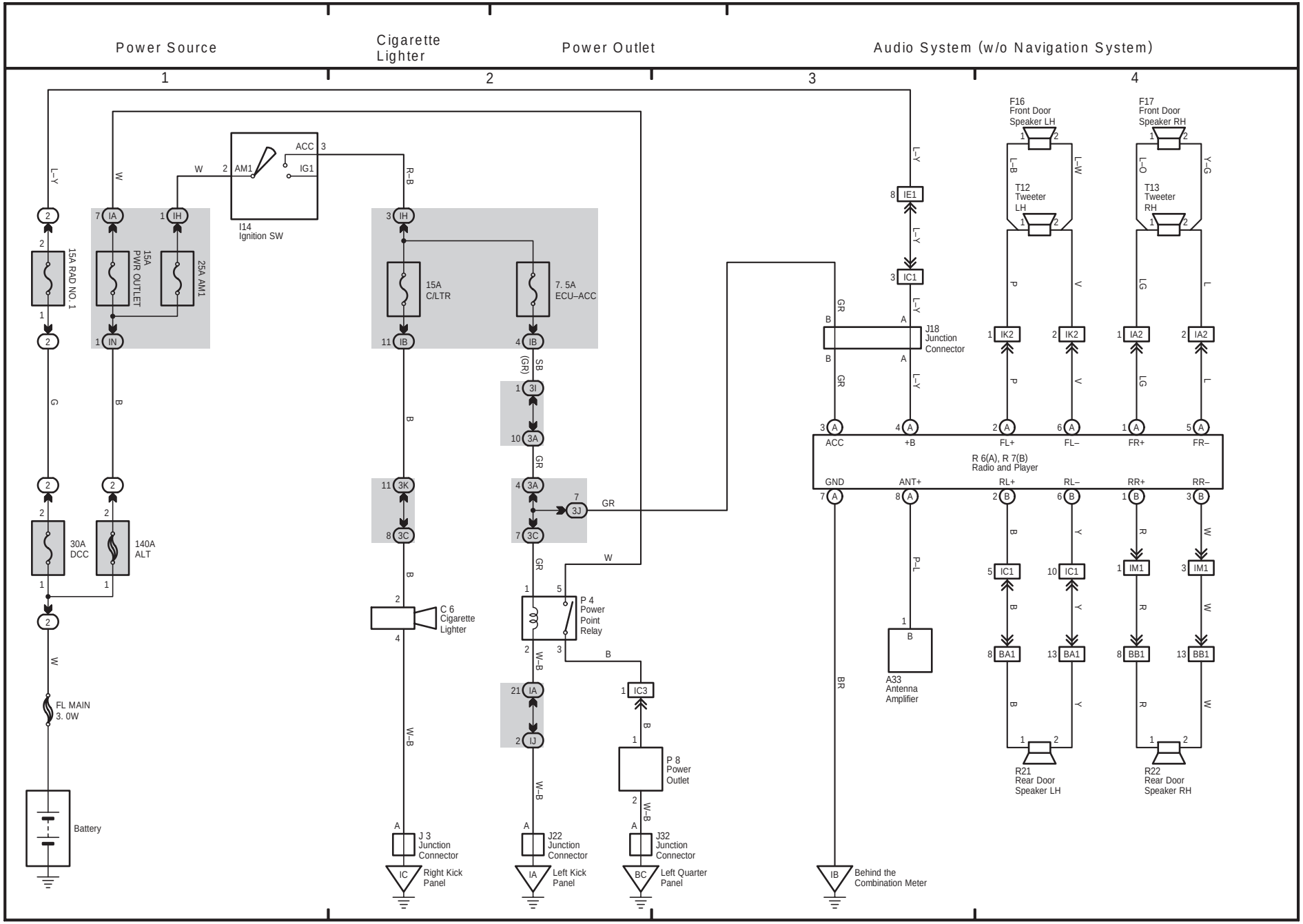
22 AVENSIS VERSO / PICNIC (RHD)



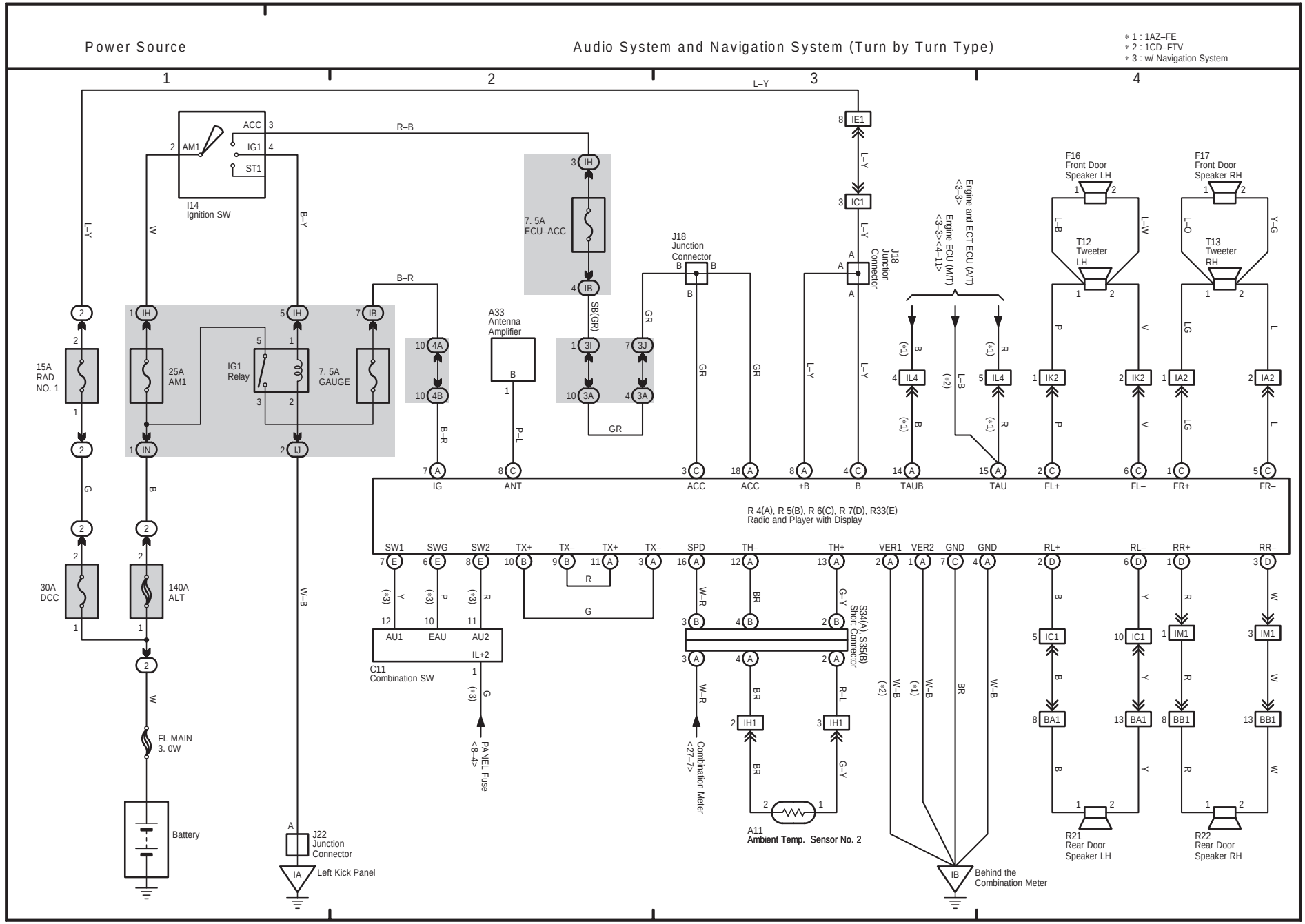

Power Source
Moon Roof
Seat Belt Warning
1
2
3
4
ACC
AM1
IG1
ST1
I14
Ignition SW
(Shielded)
Power Window Master SW
<19-5>
B–R
B–Y
B
W
W–B
R–W
IG1
Relay
7. 5A
GAUGE
25A
AM1
30A
PWR
M 3
Moon Roof Control SW
Moon Roof Control Relay
IG
PWS
B
E
OPN
CLS
LS1
LS2
M 4
Moon Roof Limit SW
Moon Roof Motor
R
G–W
Y
L–Y
C 8
Combination Meter
Seat Belt
S34(A), S35(B)
Short
Connector
IM1
B11
Buckle SW
RH
J 3
Junction
Connector
J22
Junction
Connector
140A ALT
FL MAIN
3. 0W
Battery
Left Kick Panel
Near the Interior Light
Right Kick Panel

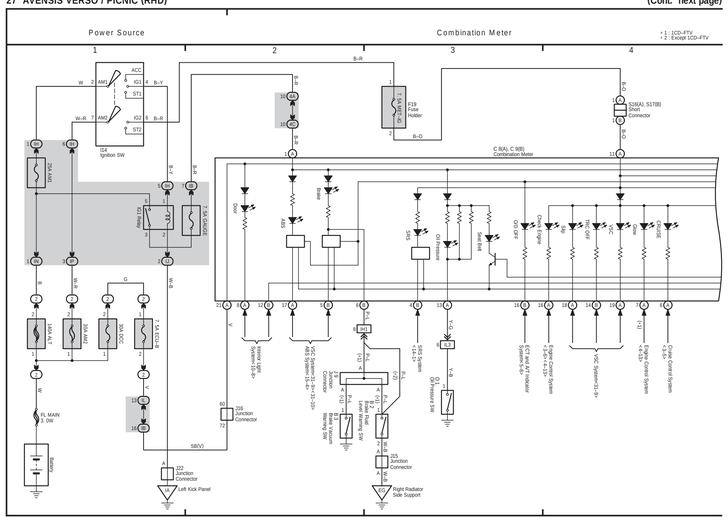
24 AVENSIS VERSO / PICNIC (RHD)

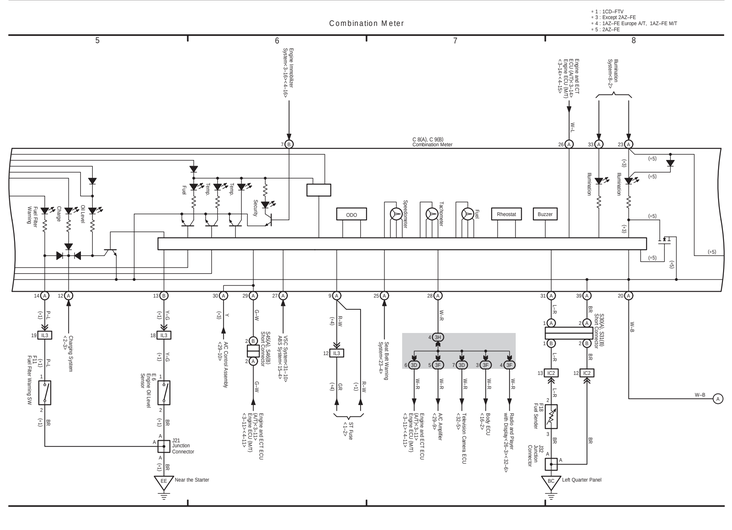


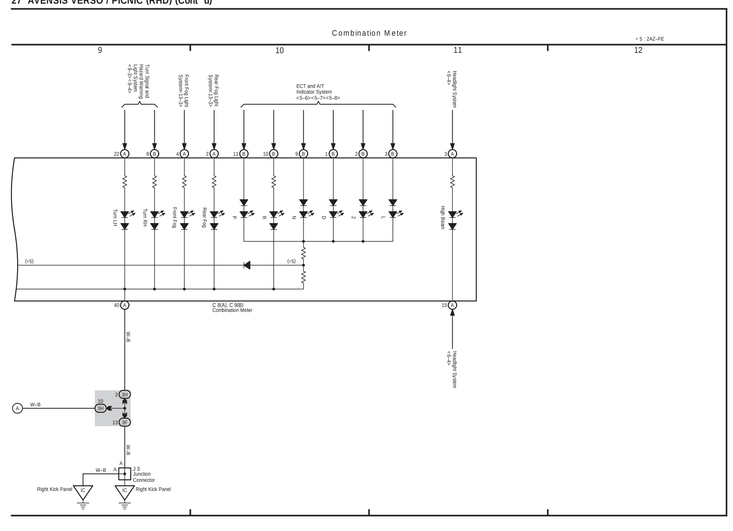

Power Source
Cigarette Lighter
Power Outlet
Audio System (w/o Navigation System)
1
2
3
4
15A RAD NO. 1
15A PWR OUTLET
25A AM1
I14 Ignition SW
ACC
IG1
AM1
15A C/LTR
7. 5A ECU–ACC
30A DCC
140A ALT
FL MAIN 3. 0W
Battery
C 6 Cigarette Lighter
P 4 Power Point Relay
P 8 Power Outlet
J 3 Junction Connector
J22 Junction Connector
J32 Junction Connector
Right Kick Panel
Left Kick Panel
Left Quarter Panel
J18 Junction Connector
A33 Antenna Amplifier
Behind the Combination Meter
F16 Front Door Speaker LH
F17 Front Door Speaker RH
T12 Tweeter LH
T13 Tweeter RH
R21 Rear Door Speaker LH
R22 Rear Door Speaker RH
R 6(A), R 7(B) Radio and Player
ACC
+B
FL+
FL–
FR+
FR–
GND
ANT+
RL+
RL–
RR+
RR–

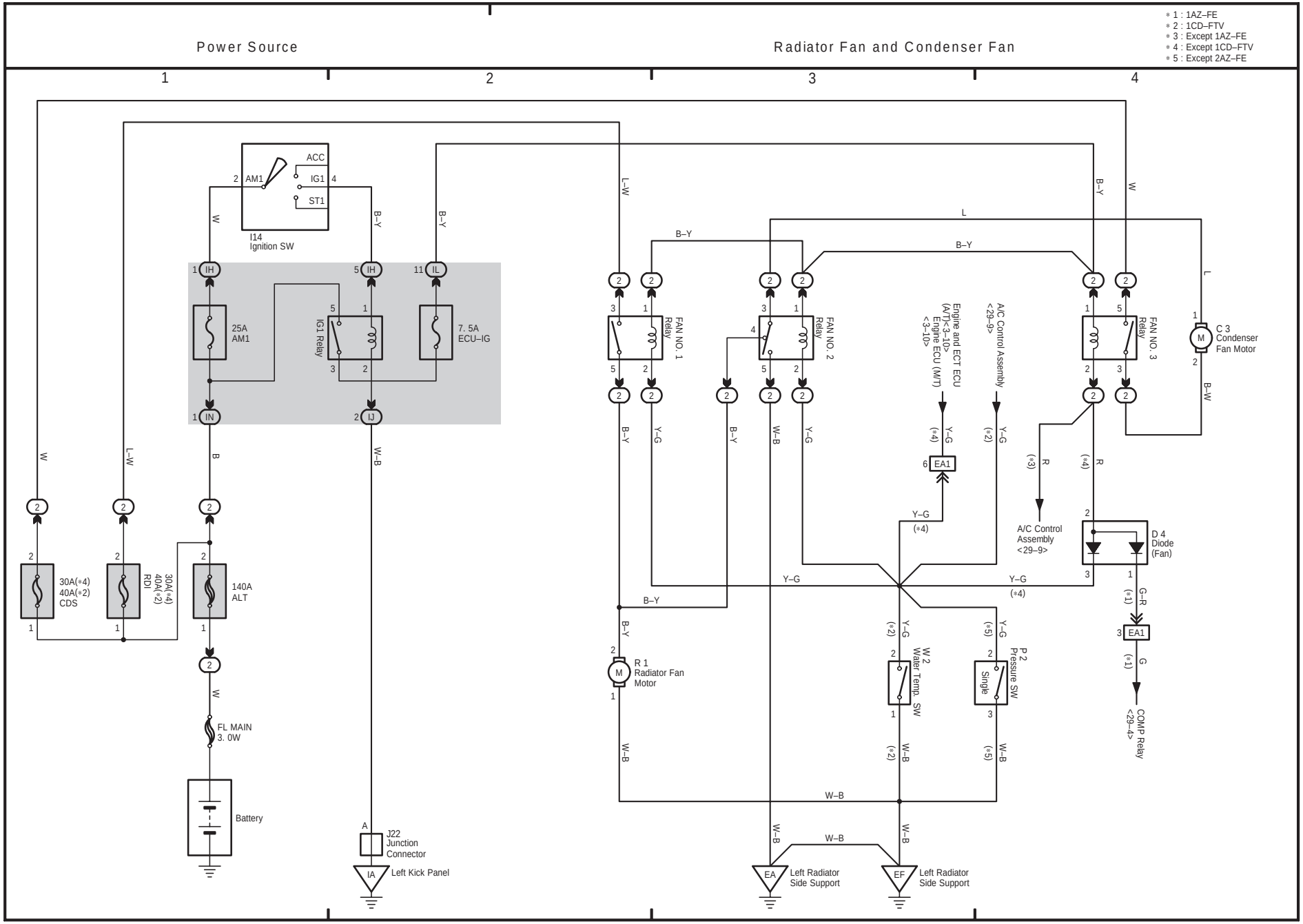
26 AVENSIS VERSO / PICNIC (RHD)



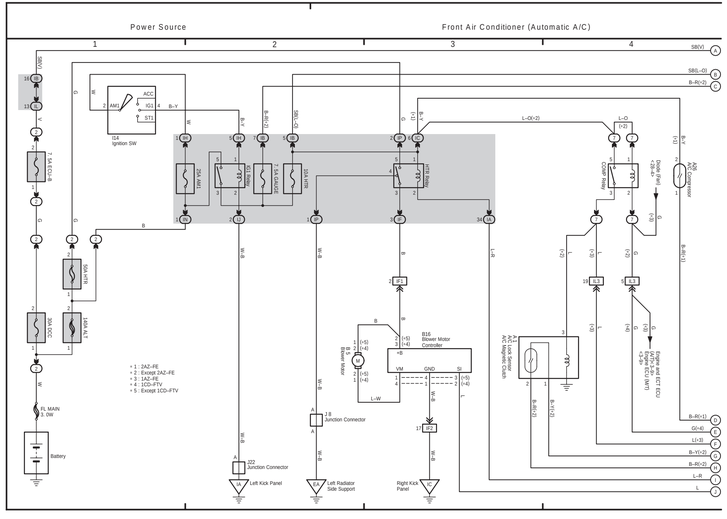

Power Source
Combination Meter
* 1 : 1CD-FTV
* 2 : Except 1CD-FTV
I24 Ignition SW
ACC
IG1
IG2
ST1
ST2
AM1
AM2
EFI MAIN
ETCS
ABS
Stop
Tail
Head
SRS
Oil Pressure
Seat Belt
Charge
Fuel
Brake
Door
Buzzer
Engine
Glow
Cruise
Fuel Heater
Fuel Warning
Water Temp
Tachometer
Speedometer
Fuel Gauge
Shift Position
Odometer
Trip Meter
Clock
Illumination
Fuel Sender Gauge
Water Temp Sender Gauge
Fuel Pump
Starter
Alternator
Battery
FL MAIN 3.0W
150 AMP
100 AMP
80 AMP
50 AMP
EFI MAIN
ETCS
ABS
HEAD
TAIL
STOP
ECU-B
S164(A), S178(B) Short Connector
F19 Fuse Holder
J22 Junction Connector
Left Kick Panel
J16 Junction Connector
J15 Junction Connector
Right Radiator Side Support
Sound with Navigation System
ABS System
SRS System
Oil Pressure SW
Seat Belt Buckle SW
Fuel Tank Band SW
Fuel Pump
Fuel Sender Gauge
Fuel Level Warning SW
Fuel Heater
Fuel Heater Relay
Fuel Heater System
ECD and PTC Heater System
Engine and ECT System
Engine Immobiliser System
Cruise Control System
Combination Meter
Charging System
Fuel Level Warning SW
Engine Oil Level Sensor
Near the Starter
J21 Junction Connector
Engine and ECT ECU
Engine Immobiliser ECU
A/C Control Assembly
A/C System
Engine and ECT ECU (M/T)
Engine and ECT ECU (A/T)
Engine Control System
Body ECU
Intrusion Sensor
Intrusion Sensor Buzzer
Left Quarter Panel
S340(A), S317(B) Short Connector
Illumination System
Power Source
Starting System
Charging System
Engine and ECT System
Engine Immobiliser System
Cruise Control System
Combination Meter
Meter and Gauge System
Wireless Door Control System
Power Window System
Theft Deterrent System
Rear Window Defogger System
Door Lock Control System
Power Mirror Control System
Interior Light System
Personal Light System
Trunk Room Light System
Vanity Light System
Luggage Compartment Light System
Engine Room Light System
Glove Box Light System
Ash Tray Light System
Cigarette Lighter System
Clock System
Sound with Navigation System
Navigation System
Radio and Player
Hands-free Phone System
Rear Seat Entertainment System
Air Conditioning System
Rear Air Conditioning System
Seat Heater System
Sliding Roof System
Rear Wiper and Washer System
Headlight Cleaner System
Windshield Wiper and Washer System
Rear Window Defogger System
Mirror Heater System
Tire Pressure Warning System
Back Monitor System
Parking Assist System
Navigation System
Radio and Player
Hands-free Phone System
Rear Seat Entertainment System
Air Conditioning System
Rear Air Conditioning System
Seat Heater System
Sliding Roof System
Rear Wiper and Washer System
Headlight Cleaner System
Windshield Wiper and Washer System
Rear Window Defogger System
Mirror Heater System
Tire Pressure Warning System
Back Monitor System
Parking Assist System
Navigation System
Radio and Player
Hands-free Phone System
Rear Seat Entertainment System
Air Conditioning System
Rear Air Conditioning System
Seat Heater System
Sliding Roof System
Rear Wiper and Washer System
Headlight Cleaner System
Windshield Wiper and Washer System
Rear Window Defogger System
Mirror Heater System
Tire Pressure Warning System
Back Monitor System
Parking Assist System

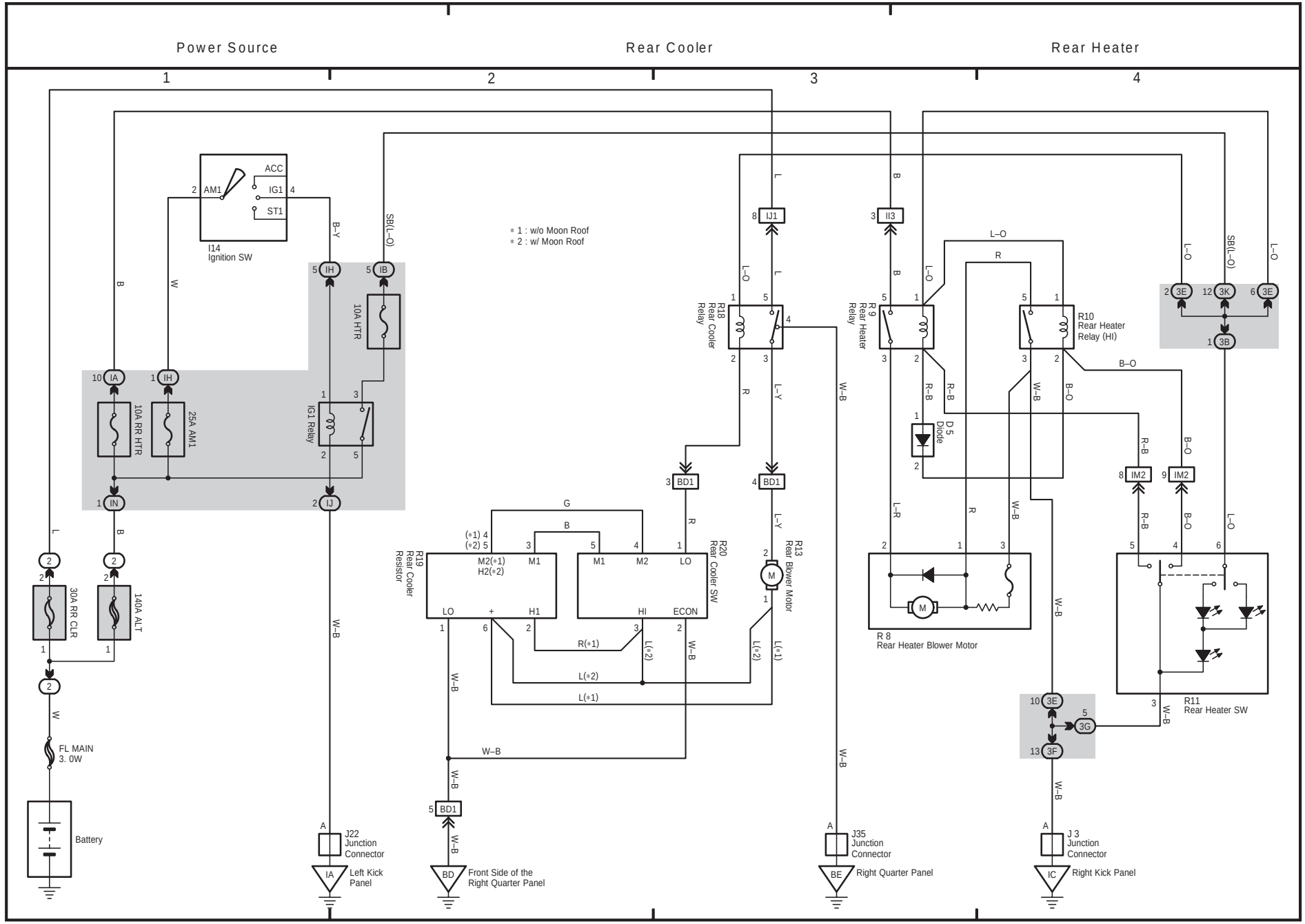

Combination Meter
* 1 : 1CD-FTV
* 3 : Except 1AZ-FE
* 4 : 1AZ-FE Europe A/T, 1AZ-FE MT
* 5 : 2AZ-FE
C (KA), C 9(B) Combination Meter
Engine Immobiliser System<3-4>
Engine and ECT System<3-4>
Illumination System<3-2>
Illumination
Charge
Fuel
Brake
Door
Seat Belt
Oil Pressure
Tail
Head
Stop
Turn
ABS
SRS
Speedometer
Tachometer
Fuel Gauge
Water Temp
Rheostat
Buzzer
OOO
Fuel Heater
Fuel Warning
Charging System<3-3>
Fuel Level Warning SW
Engine Oil Level Sensor
Near the Starter
J21 Junction Connector
Engine and ECT ECU<3-3>
Engine Immobiliser ECU<3-3>
A/C Control Assembly
A/C System<3-3>
Engine and ECT ECU (M/T)<3-4>
Engine and ECT ECU (A/T)<3-4>
Engine Control System<3-3>
Body ECU<3-3>
Intrusion Sensor<3-3>
Intrusion Sensor Buzzer<3-3>
Left Quarter Panel
S340(A), S317(B) Short Connector
Power Source
Starting System
Charging System
Engine and ECT System
Engine Immobiliser System
Cruise Control System
Combination Meter
Meter and Gauge System
Wireless Door Control System
Power Window System
Theft Deterrent System
Rear Window Defogger System
Door Lock Control System
Power Mirror Control System
Interior Light System
Personal Light System
Trunk Room Light System
Vanity Light System
Luggage Compartment Light System
Engine Room Light System
Glove Box Light System
Ash Tray Light System
Cigarette Lighter System
Clock System
Sound with Navigation System
Navigation System
Radio and Player
Hands-free Phone System
Rear Seat Entertainment System
Air Conditioning System
Rear Air Conditioning System
Seat Heater System
Sliding Roof System
Rear Wiper and Washer System
Headlight Cleaner System
Windshield Wiper and Washer System
Rear Window Defogger System
Mirror Heater System
Tire Pressure Warning System
Back Monitor System
Parking Assist System
Navigation System
Radio and Player
Hands-free Phone System
Rear Seat Entertainment System
Air Conditioning System
Rear Air Conditioning System
Seat Heater System
Sliding Roof System
Rear Wiper and Washer System
Headlight Cleaner System
Windshield Wiper and Washer System
Rear Window Defogger System
Mirror Heater System
Tire Pressure Warning System
Back Monitor System
Parking Assist System

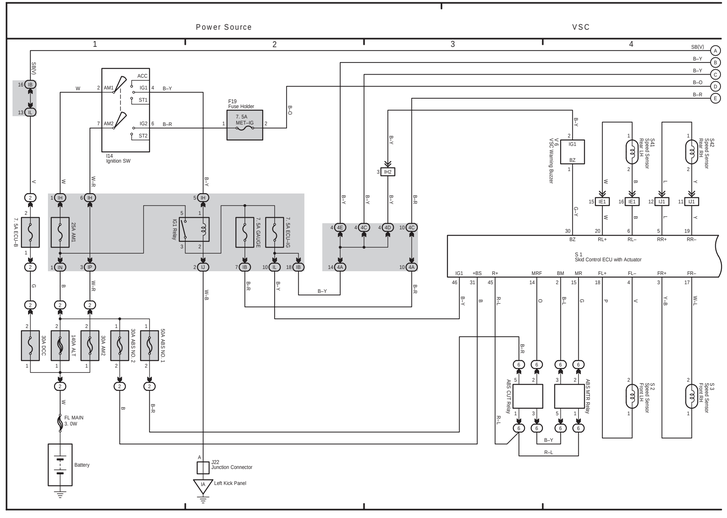

Combination Meter
* 5 : 2AZ-FE
ECT and A/T Indicator System<5-6>,<5-7>,<5-8>
Engine Immobiliser System<5-6>
Engine and ECT System<5-6>
Illumination System<5-2>
Tail LH
Turn RH
Front Fog LH
Front Fog RH
Rear Fog
Tail RH
Turn LH
C (KA), C 9(B) Combination Meter
Power Source
Starting System
Charging System
Engine and ECT System
Engine Immobiliser System
Cruise Control System
Combination Meter
Meter and Gauge System
Wireless Door Control System
Power Window System
Theft Deterrent System
Rear Window Defogger System
Door Lock Control System
Power Mirror Control System
Interior Light System
Personal Light System
Trunk Room Light System
Vanity Light System
Luggage Compartment Light System
Engine Room Light System
Glove Box Light System
Ash Tray Light System
Cigarette Lighter System
Clock System
Sound with Navigation System
Navigation System
Radio and Player
Hands-free Phone System
Rear Seat Entertainment System
Air Conditioning System
Rear Air Conditioning System
Seat Heater System
Sliding Roof System
Rear Wiper and Washer System
Headlight Cleaner System
Windshield Wiper and Washer System
Rear Window Defogger System
Mirror Heater System
Tire Pressure Warning System
Back Monitor System
Parking Assist System
Navigation System
Radio and Player
Hands-free Phone System
Rear Seat Entertainment System
Air Conditioning System
Rear Air Conditioning System
Seat Heater System
Sliding Roof System
Rear Wiper and Washer System
Headlight Cleaner System
Windshield Wiper and Washer System
Rear Window Defogger System
Mirror Heater System
Tire Pressure Warning System
Back Monitor System
Parking Assist System
J3 Junction Connector
Right Kick Panel
Right Kick Panel


Power Source
Radiator Fan and Condenser Fan
1
2
3
4
* 1 : 1AZ–FE
* 2 : 1CD–FTV
* 3 : Except 1AZ–FE
* 4 : Except 1CD–FTV
* 5 : Except 2AZ–FE
ACC
AM1
IG1
ST1
I14
Ignition SW
25A
AM1
IG1 Relay
7. 5A
ECU–IG
30A(*4)
40A(*2)
CDS
30A(*4)
40A(*2)
RDI
140A
ALT
FL MAIN
3. 0W
Battery
J22
Junction
Connector
Left Kick Panel
FAN NO. 1
Relay
FAN NO. 2
Relay
FAN NO. 3
Relay
Engine and ECT ECU
(A/T)<3–10>
Engine ECU (M/T)
<3–10>
A/C Control Assembly
<29–9>
C 3
Condenser
Fan Motor
A/C Control
Assembly
<29–9>
D 4
Diode
(Fan)
R 1
Radiator Fan
Motor
W 2
Water Temp. SW
P 2
Pressure SW
Single
COMP Relay
<29–4>
EA1
Left Radiator
Side Support
Left Radiator
Side Support
L–W
B–Y
W
L
Y–G
W–B
B
G–R
G
R

(Cont. next page)

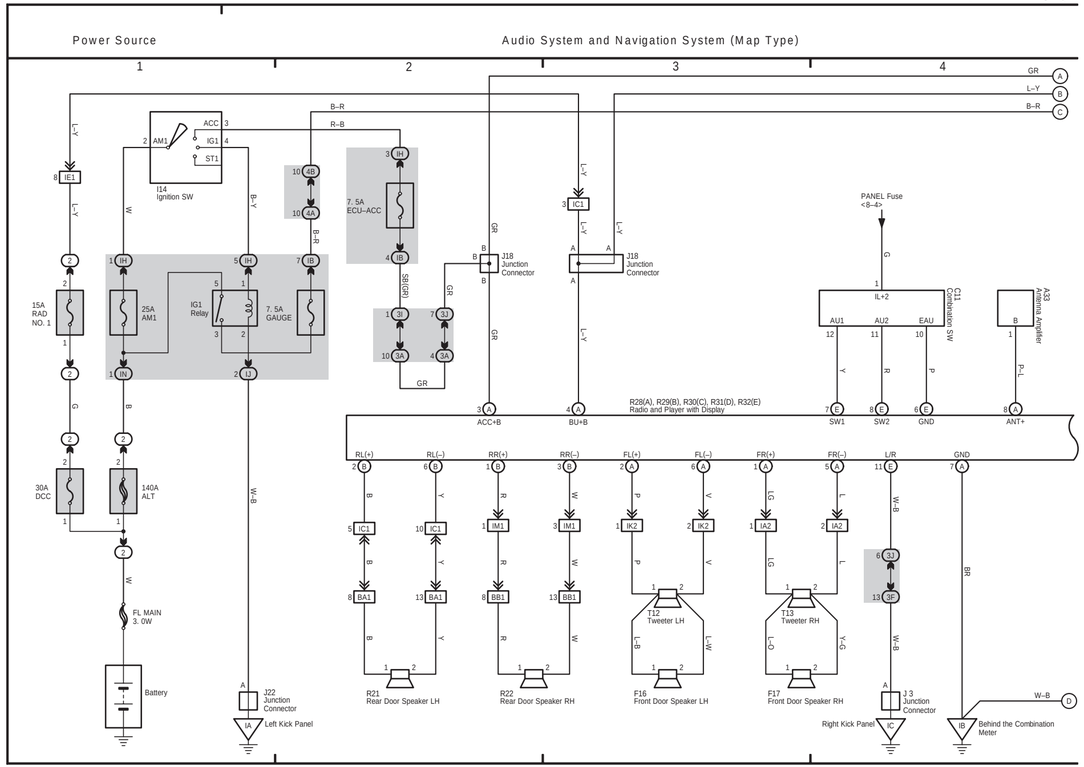

Power Source
Front Air Conditioner (Automatic A/C)
1
2
3
4
SBV(I)
SBG,–O(I)
B–R(–2)
IG1
ACC
ST1
B–Y
IG4
IG3
10A MAIN
10A ECU-B
10A ACC
10A IGN
10A HEATER
10A A/C
10A DOME
10A ECU-IG
10A WIPER
10A RDI
10A ECU-IG2
10A ECU-B2
10A AM2
10A ECU-IG3
10A ST
10A EFI
10A ETCS
10A FOG
10A HTR
10A RR HTR
10A DEICER
10A AM1
10A RR WIPER
10A RR DEFOG
10A PANEL
10A TAIL
10A HEAD (LH)
10A HEAD (RH)
10A STOP
10A TURN
10A TURN HAZ
10A RR FOG
10A RR WASHER
10A RR WIPER
10A RR DEFOG
10A PANEL
10A TAIL
10A HEAD (LH)
10A HEAD (RH)
10A STOP
10A TURN
10A TURN HAZ
10A RR FOG
10A RR WASHER
L–O
L–O(–2)
L–W
B–R
B–R(–1)
B–R(–2)
B–R(–3)
L–R
L
G(–4)
L(–3)
B–Y(–2)
B–Y(–1)
W–B
W–L
W–R
W–G
W–B
W–L
W–R
W–G
W–B
W–L
W–R
W–G


Power Source
Rear Cooler
Rear Heater
1
2
3
4
ACC
AM1
IG1
ST1
I14
Ignition SW
* 1 : w/o Moon Roof
* 2 : w/ Moon Roof
10A HTR
10A RR HTR
25A AM1
IG1 Relay
R18
Rear Cooler
Relay
R 9
Rear Heater
Relay
R10
Rear Heater
Relay (HI)
D 5
Diode
R11
Rear Heater SW
R 8
Rear Heater Blower Motor
R19
Rear Cooler
Resistor
R20
Rear Cooler SW
R13
Rear Blower Motor
30A RR CLR
140A ALT
FL MAIN
3. 0W
Battery
J22
Junction
Connector
Left Kick
Panel
Front Side of the
Right Quarter Panel
J35
Junction
Connector
Right Quarter Panel
J 3
Junction
Connector
Right Kick Panel

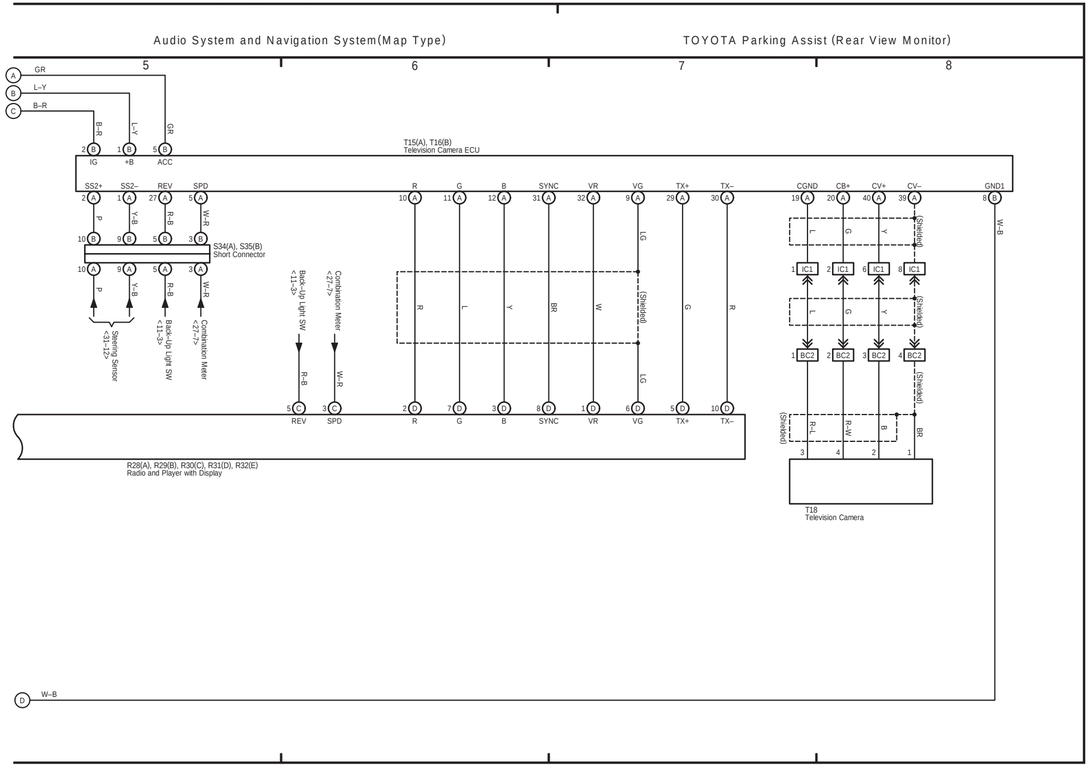

Power Source
VSC
1
2
3
4
ACC
IG1
ST1
IG2
ST2
AM1
AM2
G4
Ignition SW
E19
Fuse Holder
7.5A
MPX-AD
DRSW
Vehicle Proximity SW
Rear Wiper Motor
Rear Wiper Motor Relay
Rear Wiper Intermittent Relay
Rear Wiper Relay
Rear Wiper Stop Position Relay
Rear Wiper Low Speed Relay
Rear Wiper High Speed Relay

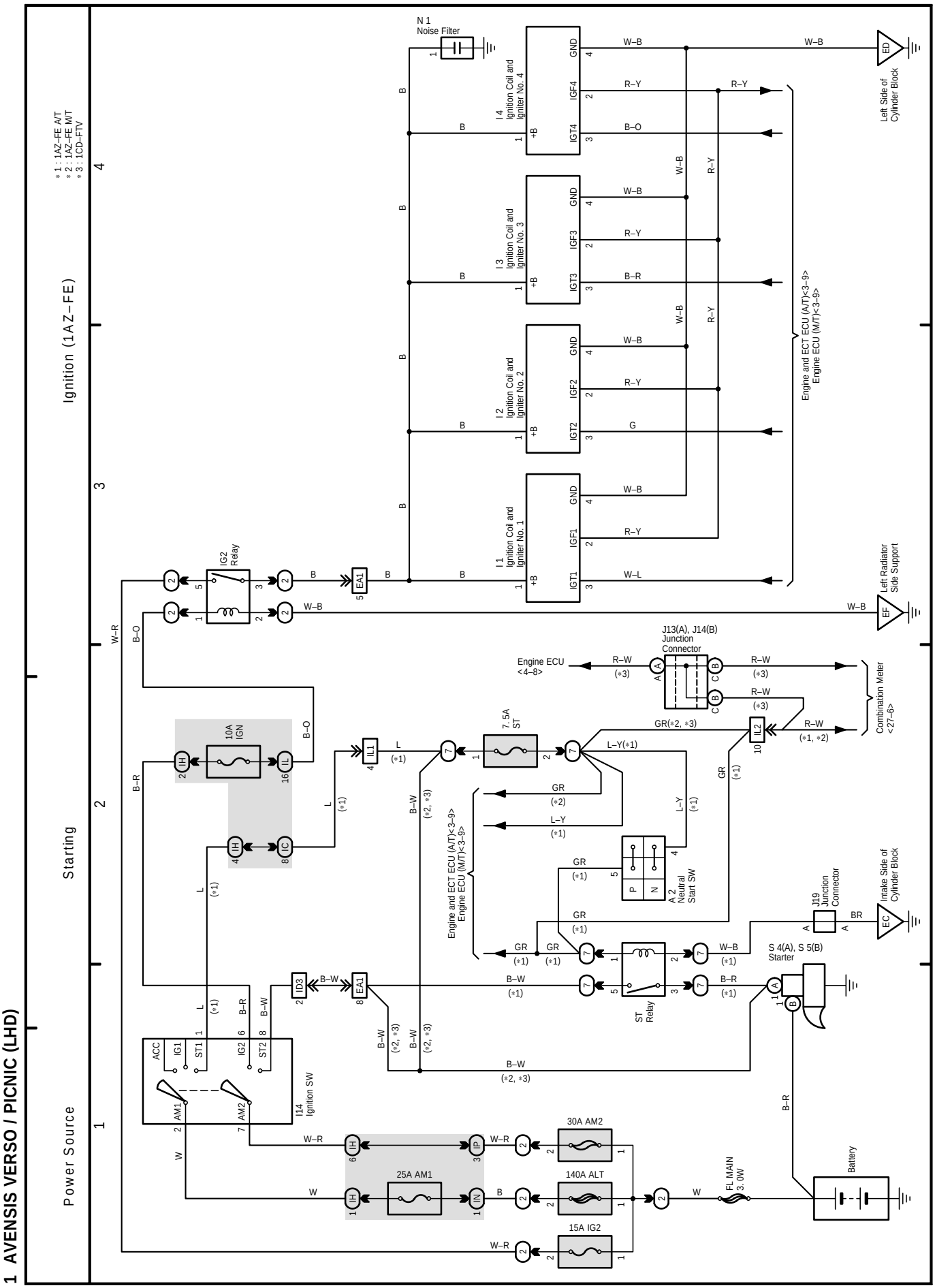
32 AVENSIS VERSO / PICNIC (RHD)

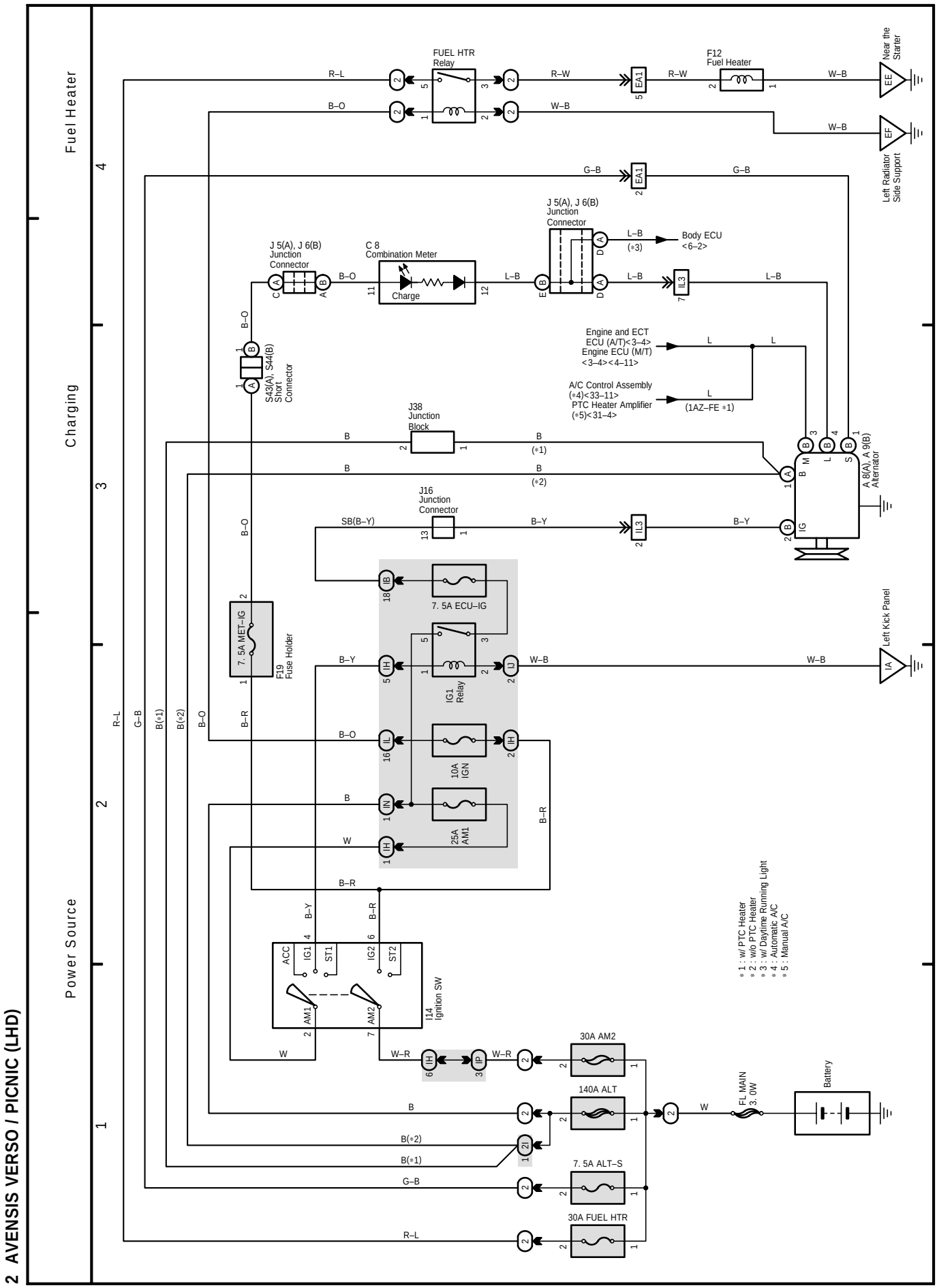
(Cont. next page)

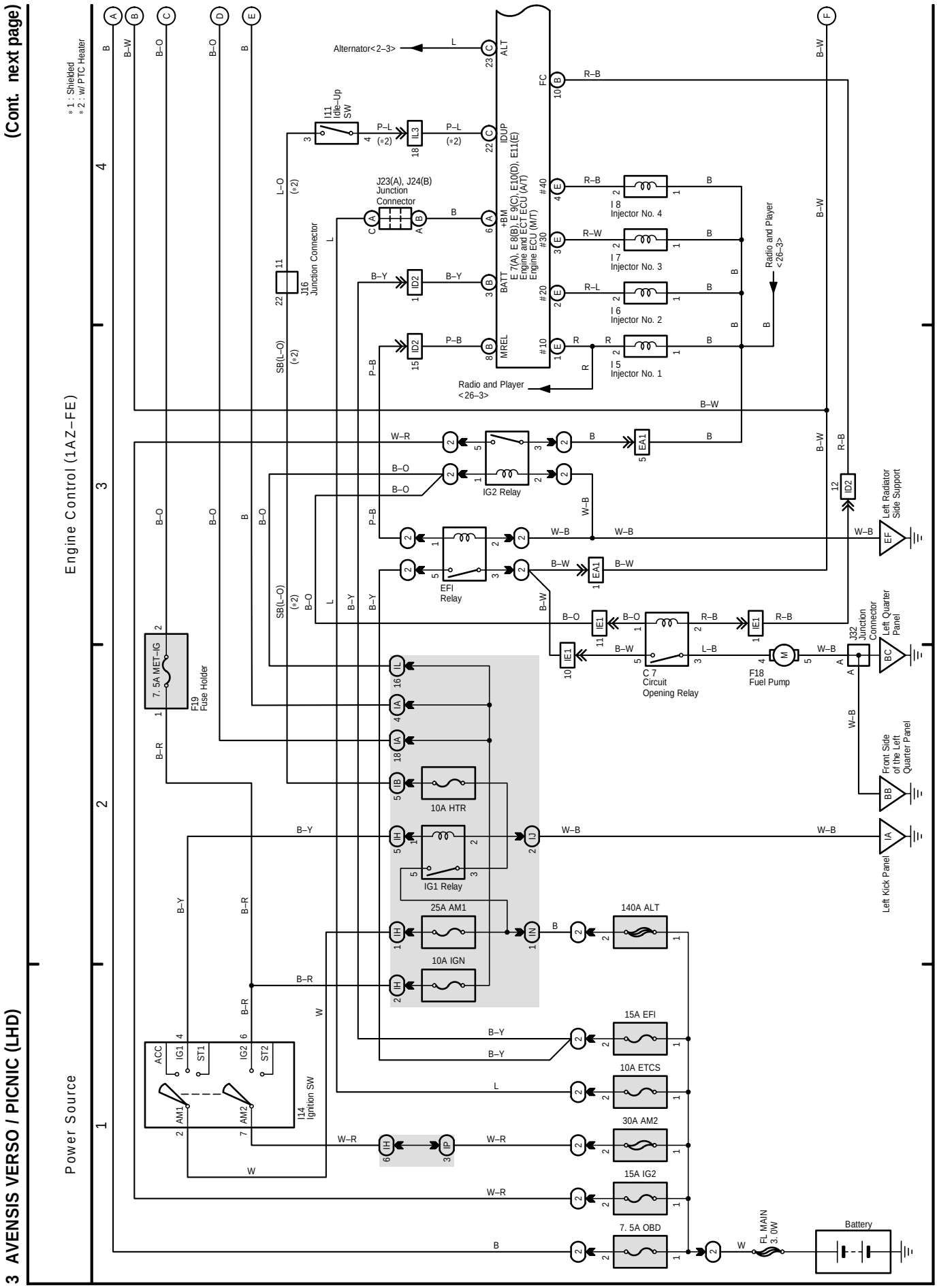


32 AVENSIS VERSO / PICNIC (RHD) (Cont' d)




1 AVENSIS VERSO / PICNIC (LHD)
Power Source
Starting
Ignition (1AZ–FE)
1
2
3
4
*1 : 1AZ–FE A/T
*2 : 1AZ–FE M/T
*3 : 1CD–FTV
N 1
Noise Filter
I 4
Ignition Coil and Igniter No. 4
I 3
Ignition Coil and Igniter No. 3
I 2
Ignition Coil and Igniter No. 2
I 1
Ignition Coil and Igniter No. 1
Left Side of Cylinder Block
Engine and ECT ECU (A/T)<3–9>
Engine ECU (M/T)<3–9>
IG2 Relay
EA1
Left Radiator Side Support
J13(A), J14(B) Junction Connector
Engine ECU <4–8>
Combination Meter <27–6>
10A IGN
7.5A ST
A 2 Neutral Start SW
J19 Junction Connector
Intake Side of Cylinder Block
S 4(A), S 5(B) Starter
ST Relay
I14 Ignition SW
ACC
IG1
ST1
IG2
ST2
AM1
AM2
30A AM2
25A AM1
140A ALT
15A IG2
FL MAIN 3.0W
Battery


2 AVENSIS VERSO / PICNIC (LHD)
Power Source
Charging
Fuel Heater
1
2
3
4
FUEL HTR Relay
F12 Fuel Heater
Near the Starter
Left Radiator Side Support
J 5(A), J 6(B) Junction Connector
C 8 Combination Meter
Charge
Body ECU <6–2>
S43(A), S44(B) Short Connector
Engine and ECT ECU (A/T)<3–4> Engine ECU (M/T) <3–4><4–11>
A/C Control Assembly (*4)<33–11> PTC Heater Amplifier (*5)<31–4>
(1AZ–FE *1)
J38 Junction Block
A 8(A), A 9(B) Alternator
J16 Junction Connector
7. 5A ECU–IG
7. 5A MET–IG
F19 Fuse Holder
IG1 Relay
10A IGN
25A AM1
Left Kick Panel
I14 Ignition SW
ACC
IG1
ST1
IG2
ST2
AM1
AM2
30A AM2
140A ALT
7. 5A ALT–S
30A FUEL HTR
FL MAIN 3. 0W
Battery
* 1 : w/ PTC Heater
* 2 : w/o PTC Heater
* 3 : w/ Daytime Running Light
* 4 : Automatic A/C
* 5 : Manual A/C


(Cont. next page)
3 AVENSIS VERSO / PICNIC (LHD)
Power Source
Engine Control (1AZ–FE)
* 1 : Shielded
* 2 : w/ PTC Heater
Alternator<2–3>
ALT
IDUP
+BM
BATT
MREL
E 7(A), E 8(B), E 9(C), E10(D), E11(E)
Engine and ECT ECU (A/T)
Engine ECU (M/T)
I11 Idle–Up SW
IL3
J23(A), J24(B) Junction Connector
J16 Junction Connector
ID2
I 8 Injector No. 4
I 7 Injector No. 3
I 6 Injector No. 2
I 5 Injector No. 1
Radio and Player <26–3>
Radio and Player <26–3>
IG2 Relay
EFI Relay
EA1
IE1
C 7 Circuit Opening Relay
F18 Fuel Pump
J32 Junction Connector
Left Quarter Panel
Left Radiator Side Support
Front Side of the Left Quarter Panel
Left Kick Panel
F19 Fuse Holder
7. 5A MET–IG
10A HTR
IG1 Relay
25A AM1
10A IGN
140A ALT
15A EFI
10A ETCS
30A AM2
15A IG2
7. 5A OBD
FL MAIN 3. 0W
Battery
I14 Ignition SW
ACC
IG1
ST1
IG2
ST2
AM1
AM2

3 AVENSIS VERSO / PICNIC (LHD) (Cont' d)

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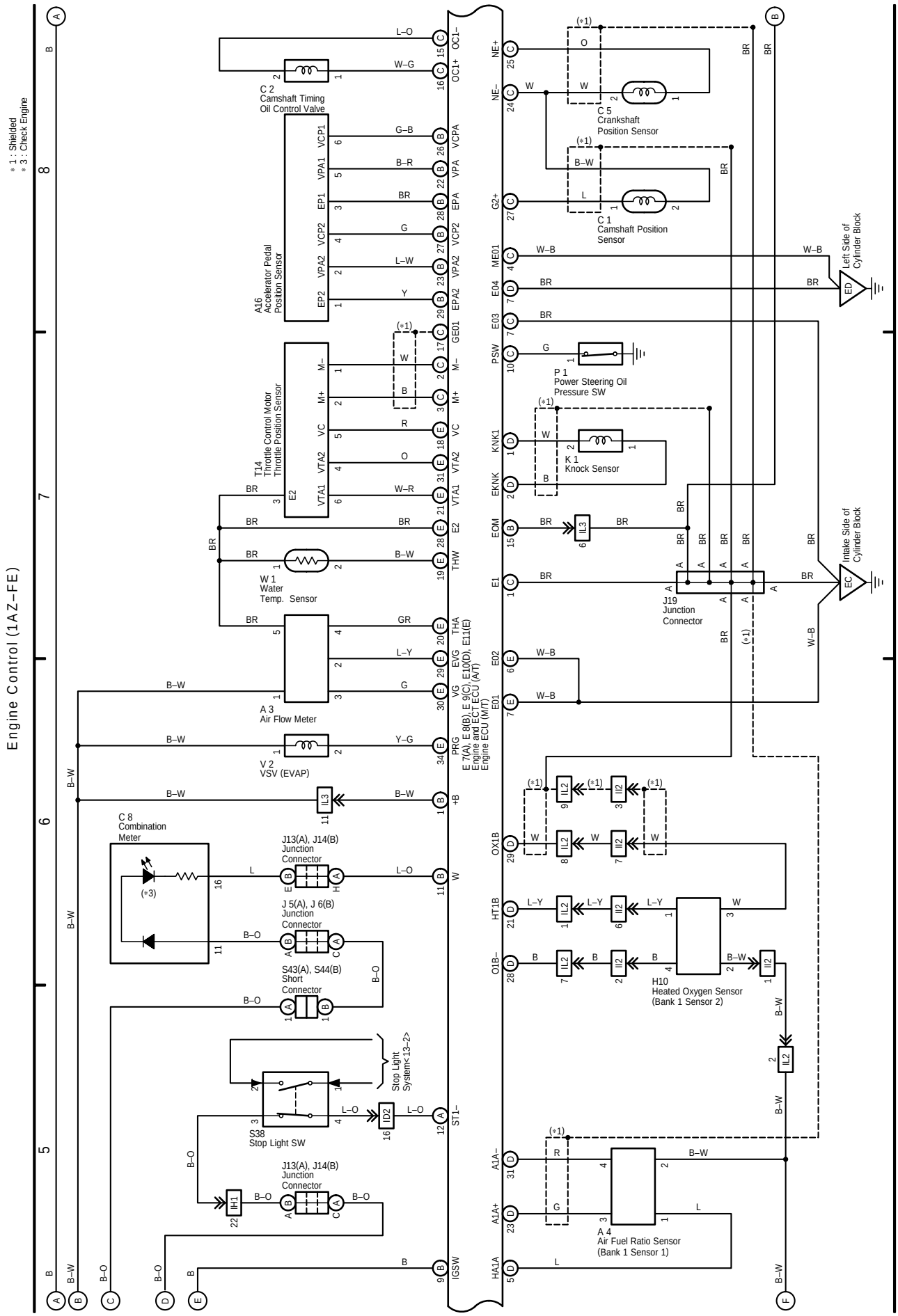
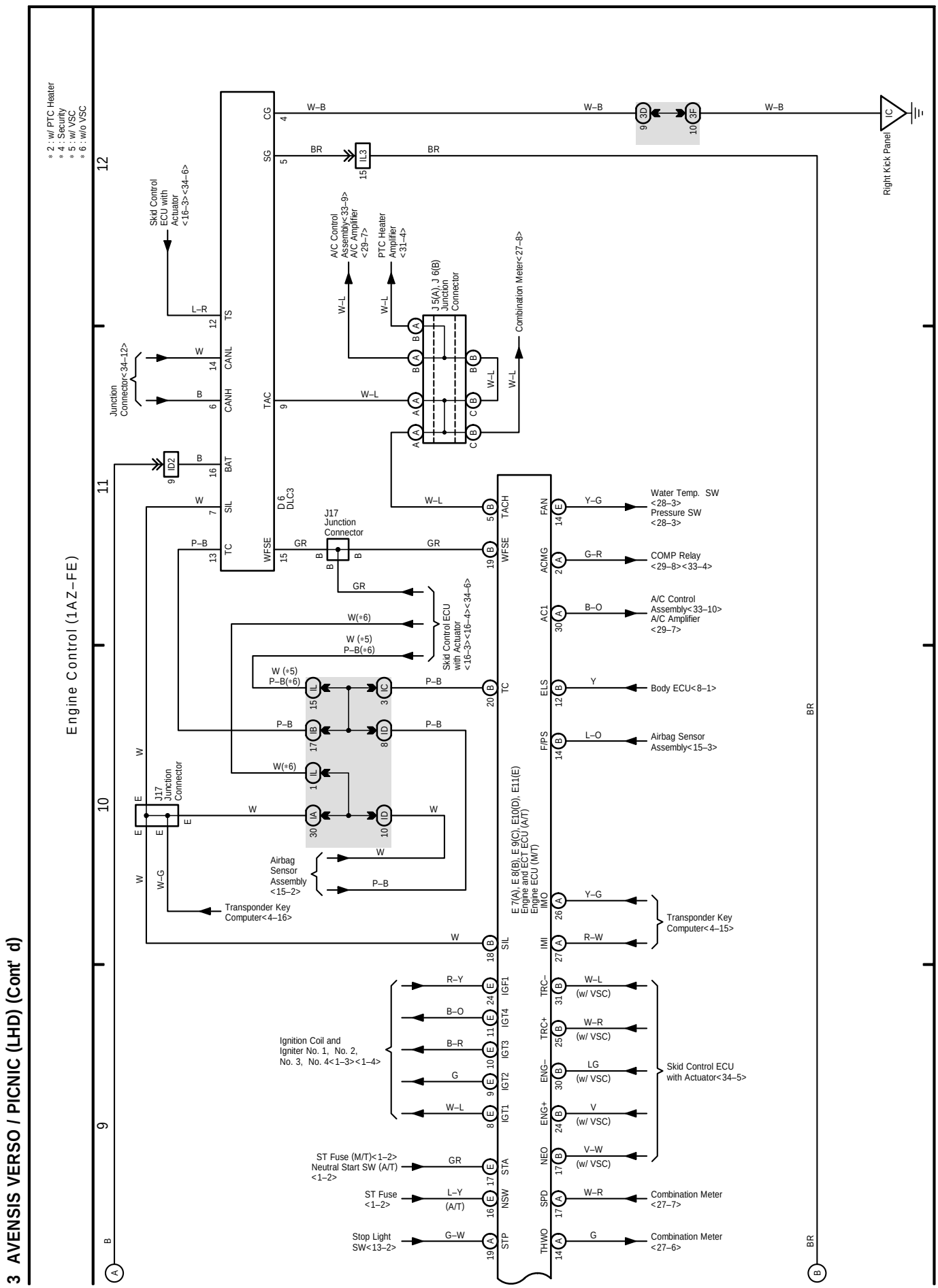
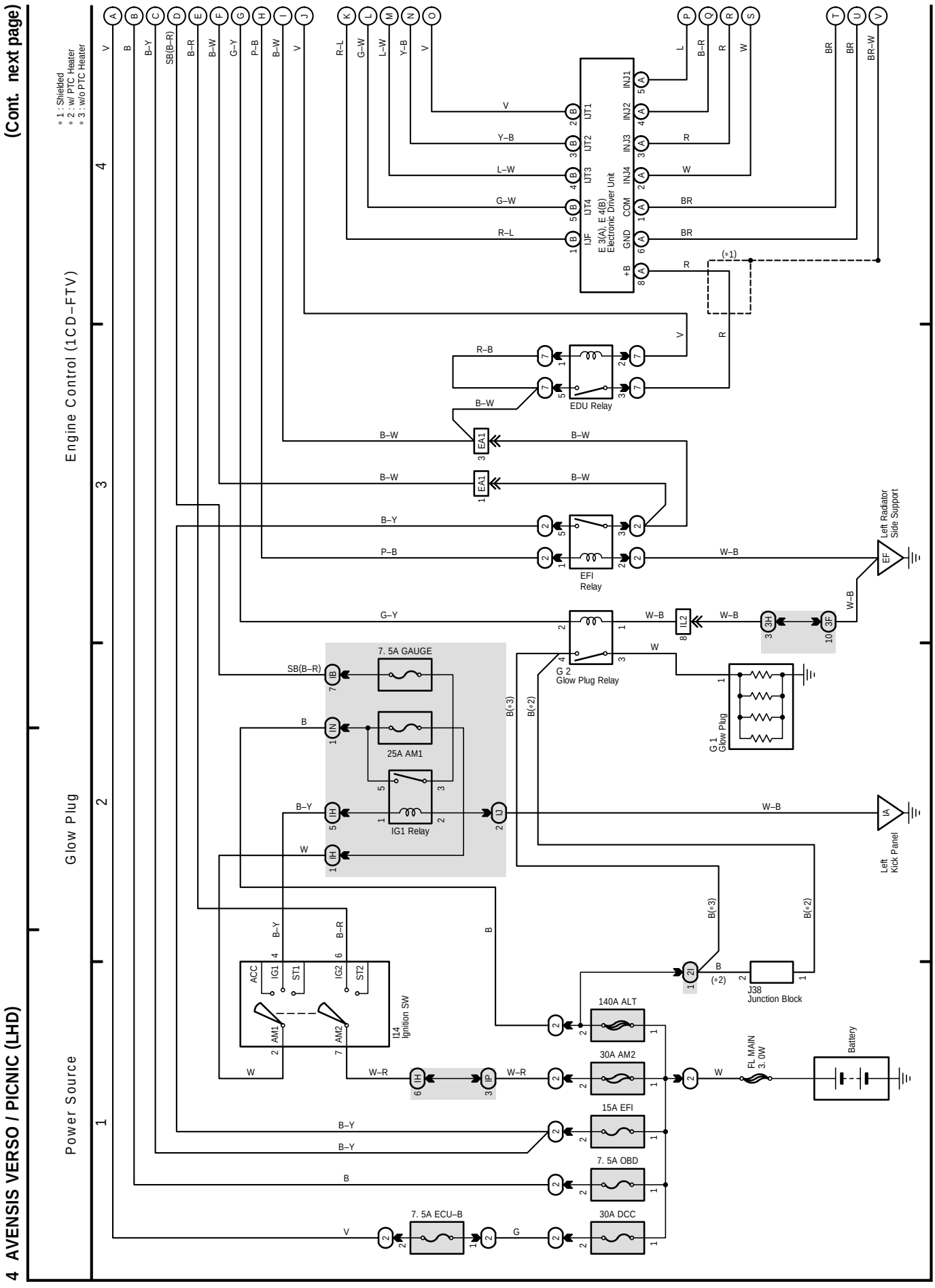



3 AVENSIS VERSO / PICNIC (LHD) (Cont' d)
Engine Control (1AZ–FE)
* 2 : w/ PTC Heater
* 4 : Security
* 5 : w/ VSC
* 6 : w/o VSC
Right Kick Panel
Skid Control ECU with Actuator <16–3><34–6>
A/C Control Assembly<33–9> A/C Amplifier <29–7>
PTC Heater Amplifier <31–4>
J5(A), J6(B) Junction Connector
Combination Meter<27–8>
Junction Connector<34–12>
J17 Junction Connector
Skid Control ECU with Actuator <16–3><16–4><34–6>
Water Temp. SW <28–3>
Pressure SW <28–3>
COMP Relay <29–8><33–4>
A/C Control Assembly<33–10> A/C Amplifier <29–7>
Body ECU<8–1>
Airbag Sensor Assembly<15–3>
Airbag Sensor Assembly <15–2>
Transponder Key Computer<4–16>
Transponder Key Computer<4–15>
E 7(A), E 8(B), E 9(C), E10(D), E11(E) Engine and ECT ECU (A/T) Engine ECU (M/T)
Ignition Coil and Igniter No. 1, No. 2, No. 3, No. 4<1–3><1–4>
Skid Control ECU with Actuator<34–5>
ST Fuse (M/T)<1–2> Neutral Start SW (A/T) <1–2>
ST Fuse <1–2>
Stop Light SW<13–2>
Combination Meter <27–7>
Combination Meter <27–6>
CG SG TS CANL CANH BAT SIL TAC WFSE TACH FAN ACMG AC1 ELS F/PS IMO IMI TRC– TRC+ ENG– ENG+ NEO SPD THWO STP NSW STA IGF1 IGT4 IGT3 IGT2 IGT1


(Cont. next page)
4 AVENSIS VERSO / PICNIC (LHD)
Power Source
Glow Plug
Engine Control (1CD–FTV)
* 1 : Shielded
* 2 : w/ PTC Heater
* 3 : w/o PTC Heater
E 3(A), E 4(B)
Electronic Driver Unit
EDU Relay
EFI Relay
G 2 Glow Plug Relay
G 1 Glow Plug
IG1 Relay
I14 Ignition SW
J38 Junction Block
Left Radiator Side Support
Left Kick Panel
7. 5A GAUGE
25A AM1
140A ALT
30A AM2
15A EFI
7. 5A OBD
7. 5A ECU–B
30A DCC
Battery
FL MAIN 3. 0W

4 AVENSIS VERSO / PICNIC (LHD) (Cont' d)

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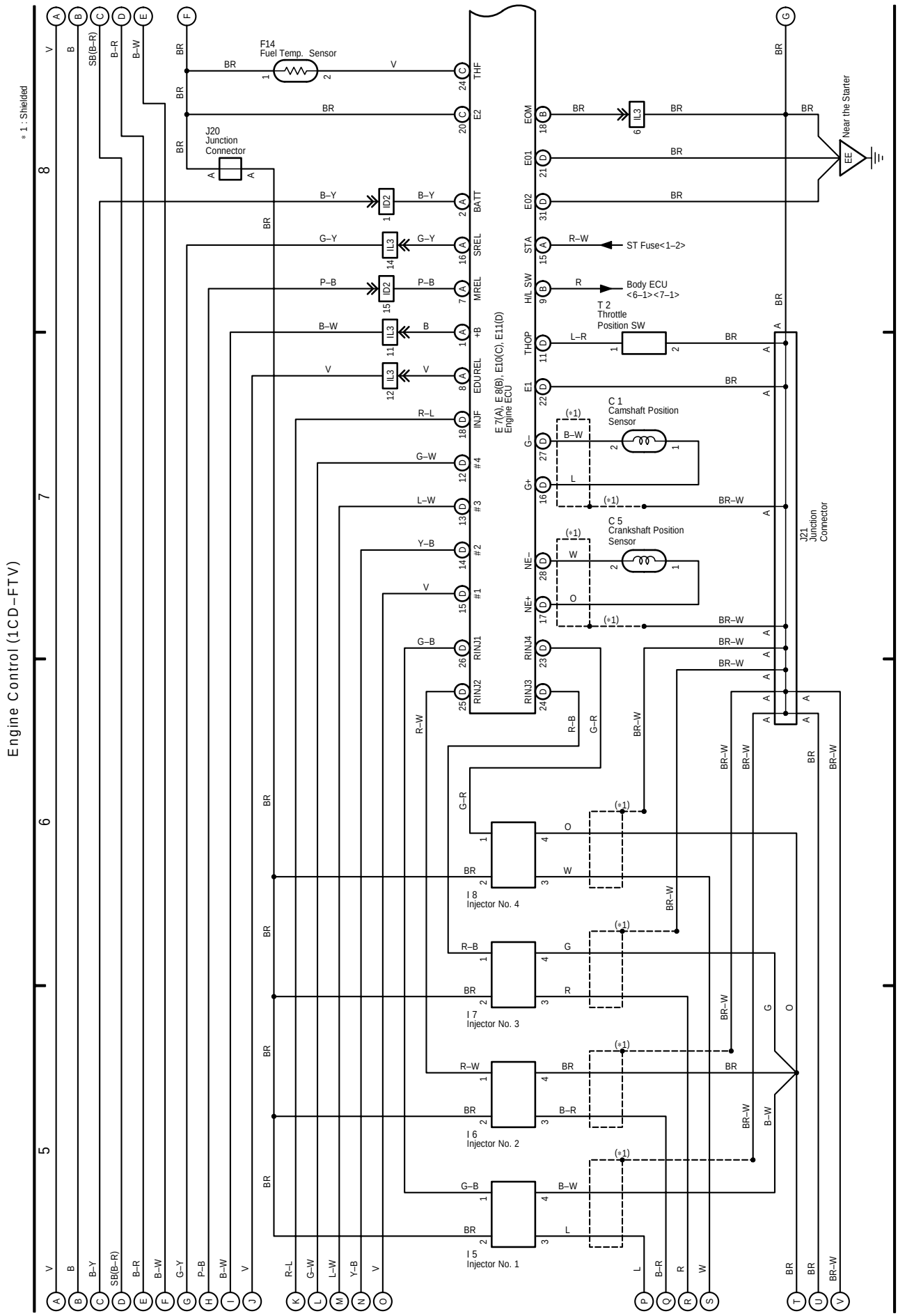
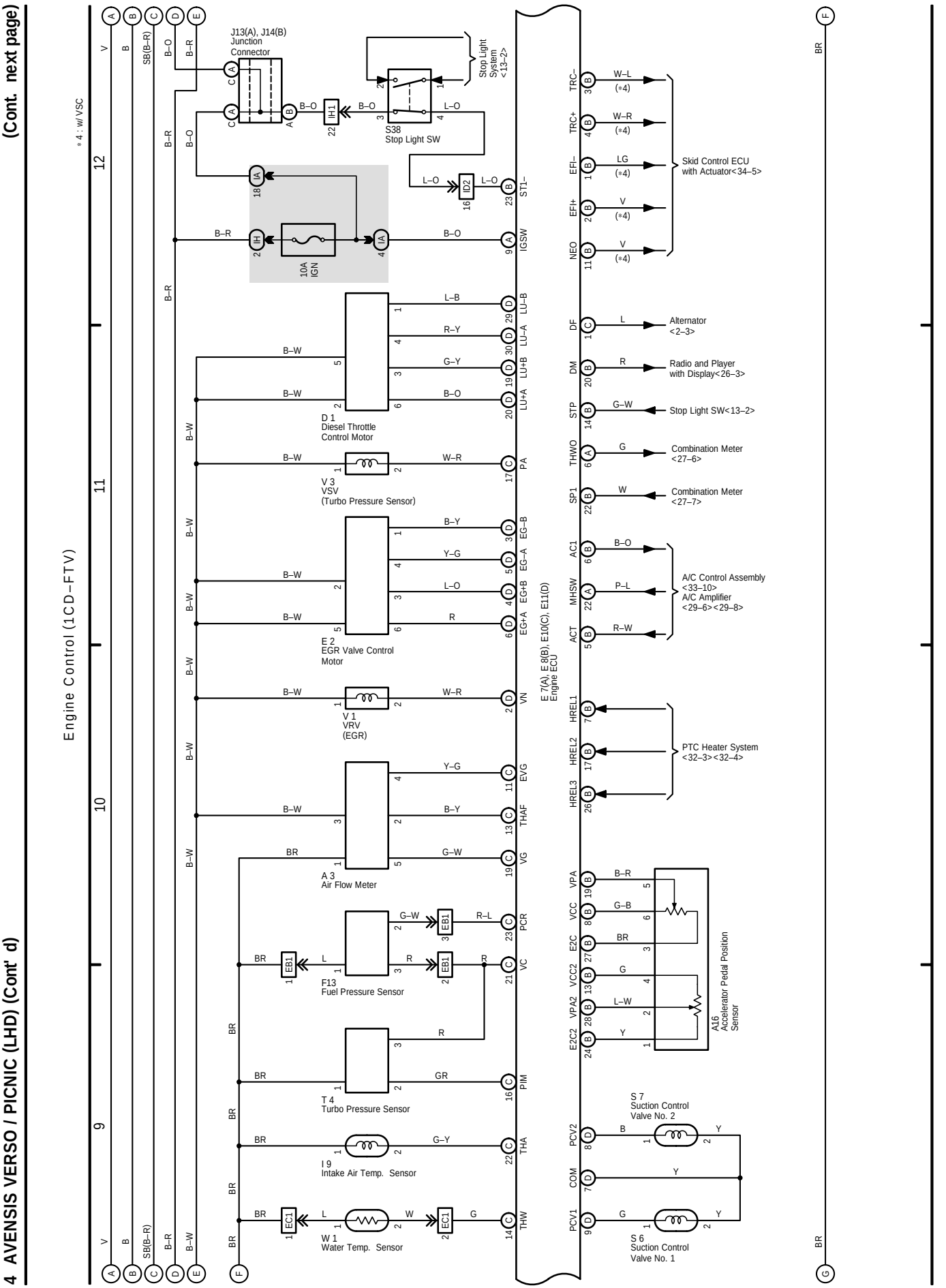
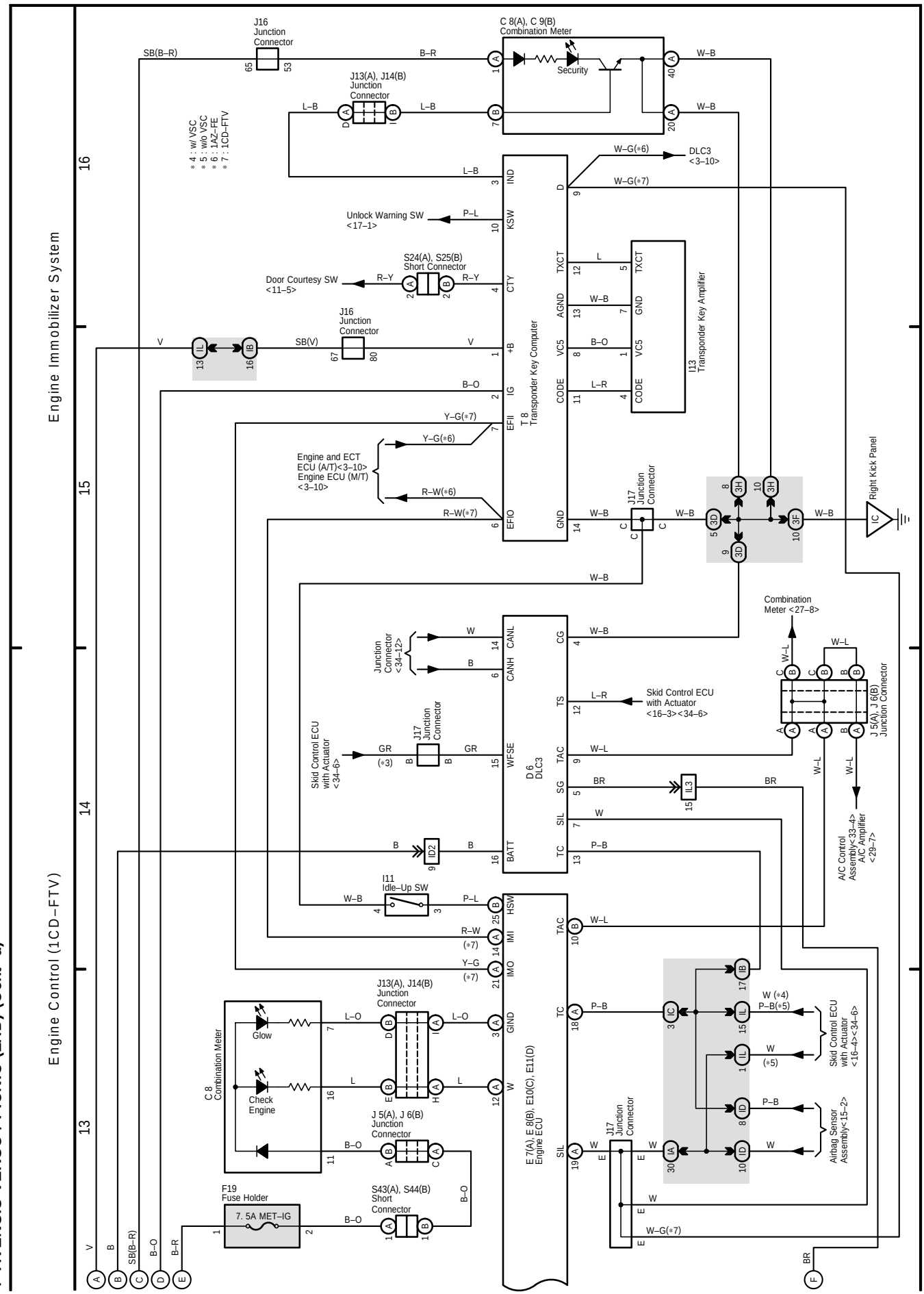
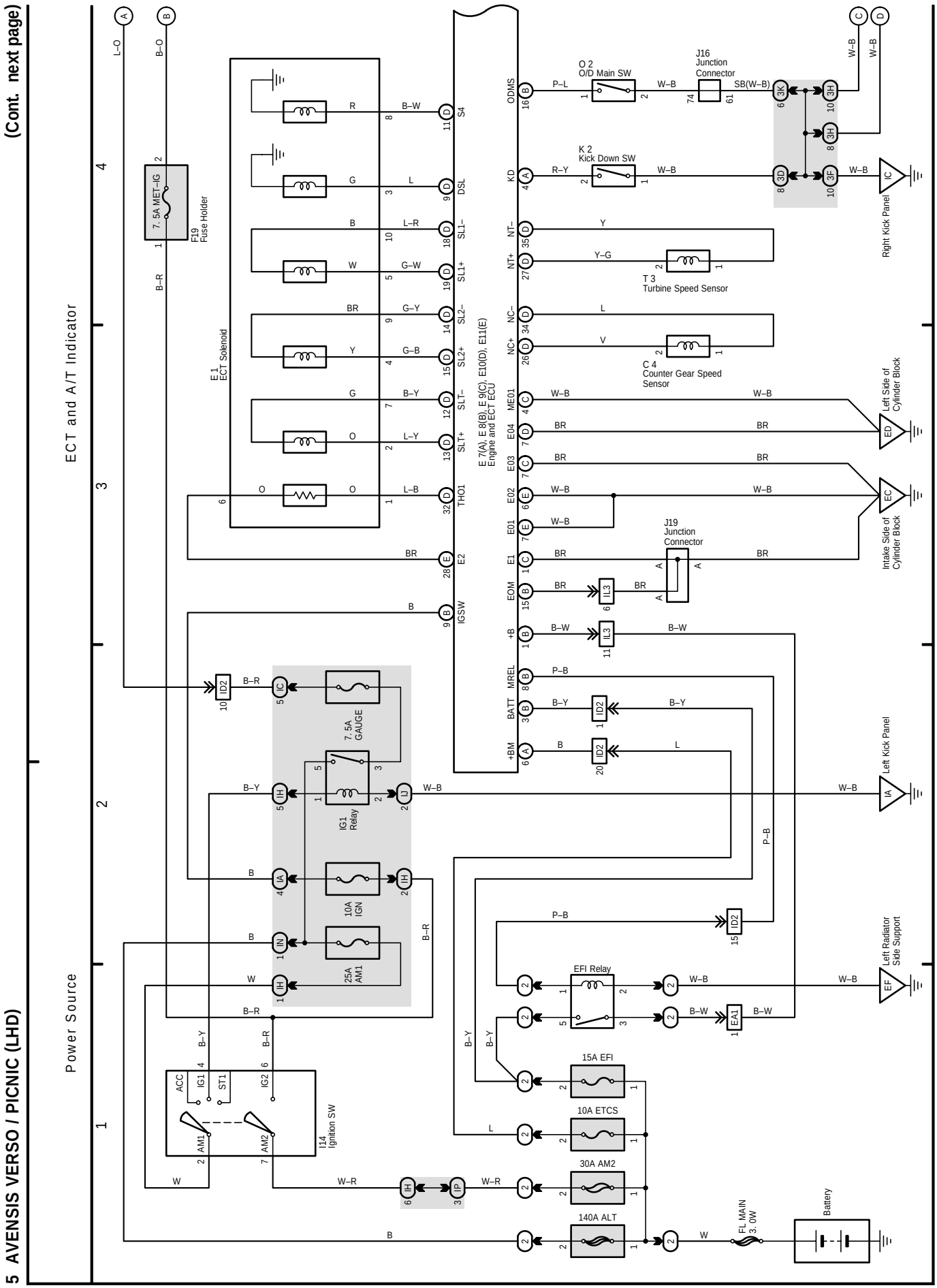


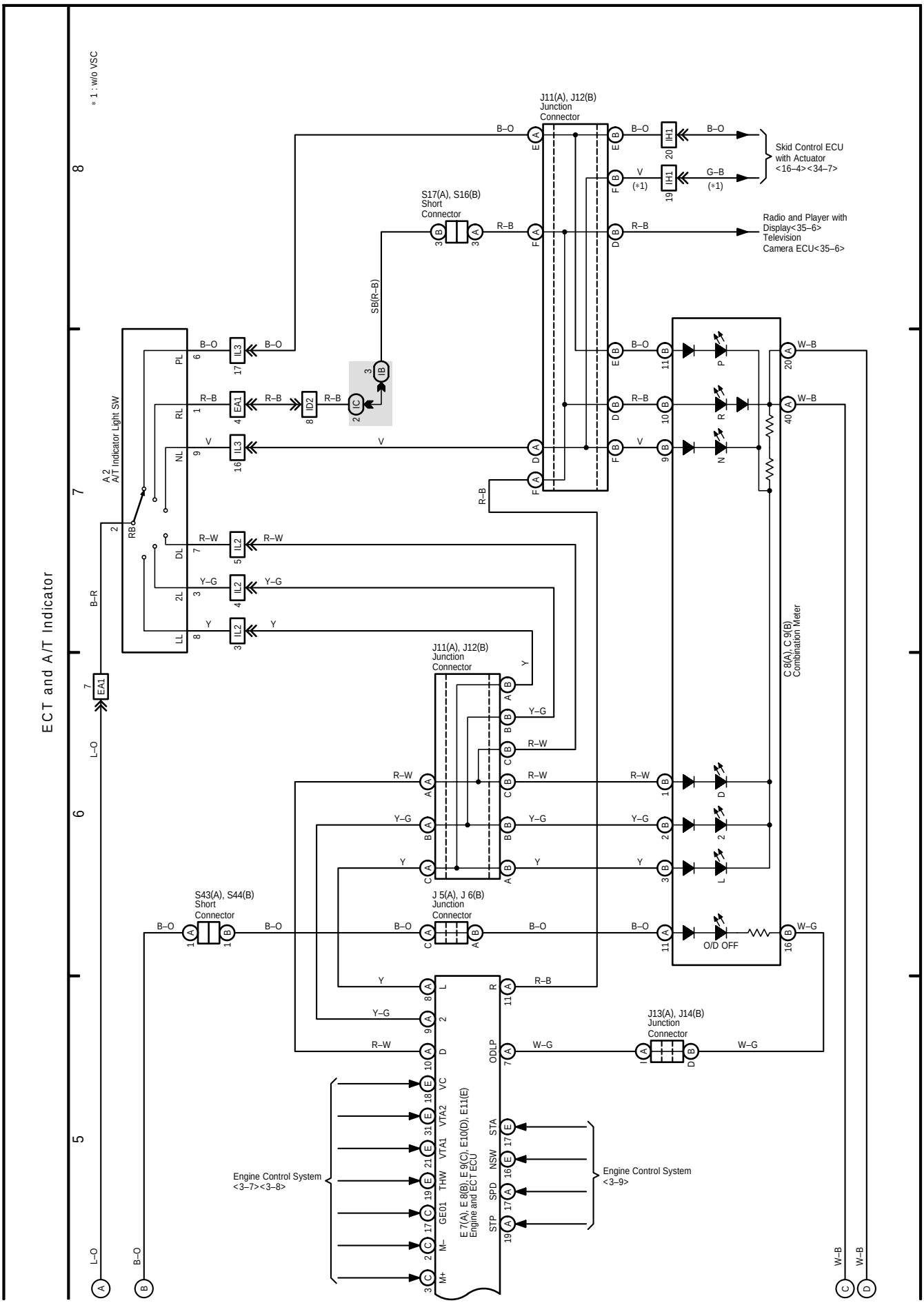

4 AVENSIS VERSO / PICNIC (LHD) (Cont' d)
(Cont. next page)
Engine Control (1CD–FTV)
* 4 : w/ VSC
J13(A), J14(B) Junction Connector
Stop Light System <13–2>
S38 Stop Light SW
10A IGN
D 1 Diesel Throttle Control Motor
V 3 VSV (Turbo Pressure Sensor)
E 2 EGR Valve Control Motor
V 1 VRV (EGR)
A 3 Air Flow Meter
F13 Fuel Pressure Sensor
T 4 Turbo Pressure Sensor
I 9 Intake Air Temp. Sensor
W 1 Water Temp. Sensor
E 7(A), E 8(B), E10(C), E11(D) Engine ECU
Skid Control ECU with Actuator<34–5>
Alternator <2–3>
Radio and Player with Display<26–3>
Stop Light SW<13–2>
Combination Meter <27–6>
Combination Meter <27–7>
A/C Control Assembly <33–10> A/C Amplifier <29–6><29–8>
PTC Heater System <32–3><32–4>
A16 Accelerator Pedal Position Sensor
S 7 Suction Control Valve No. 2
S 6 Suction Control Valve No. 1

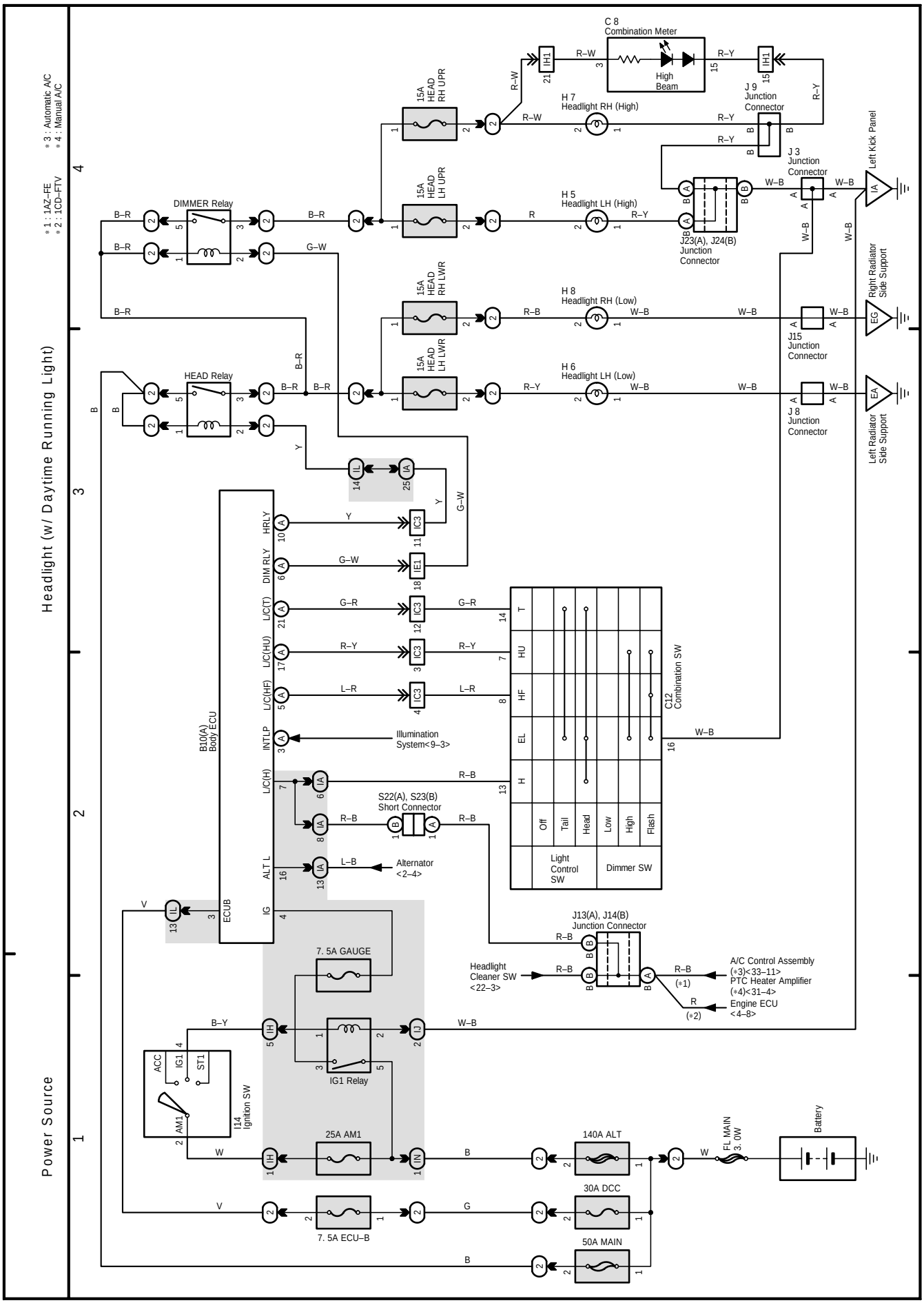
4 AVENSIS VERSO / PICNIC (LHD) (Cont' d)

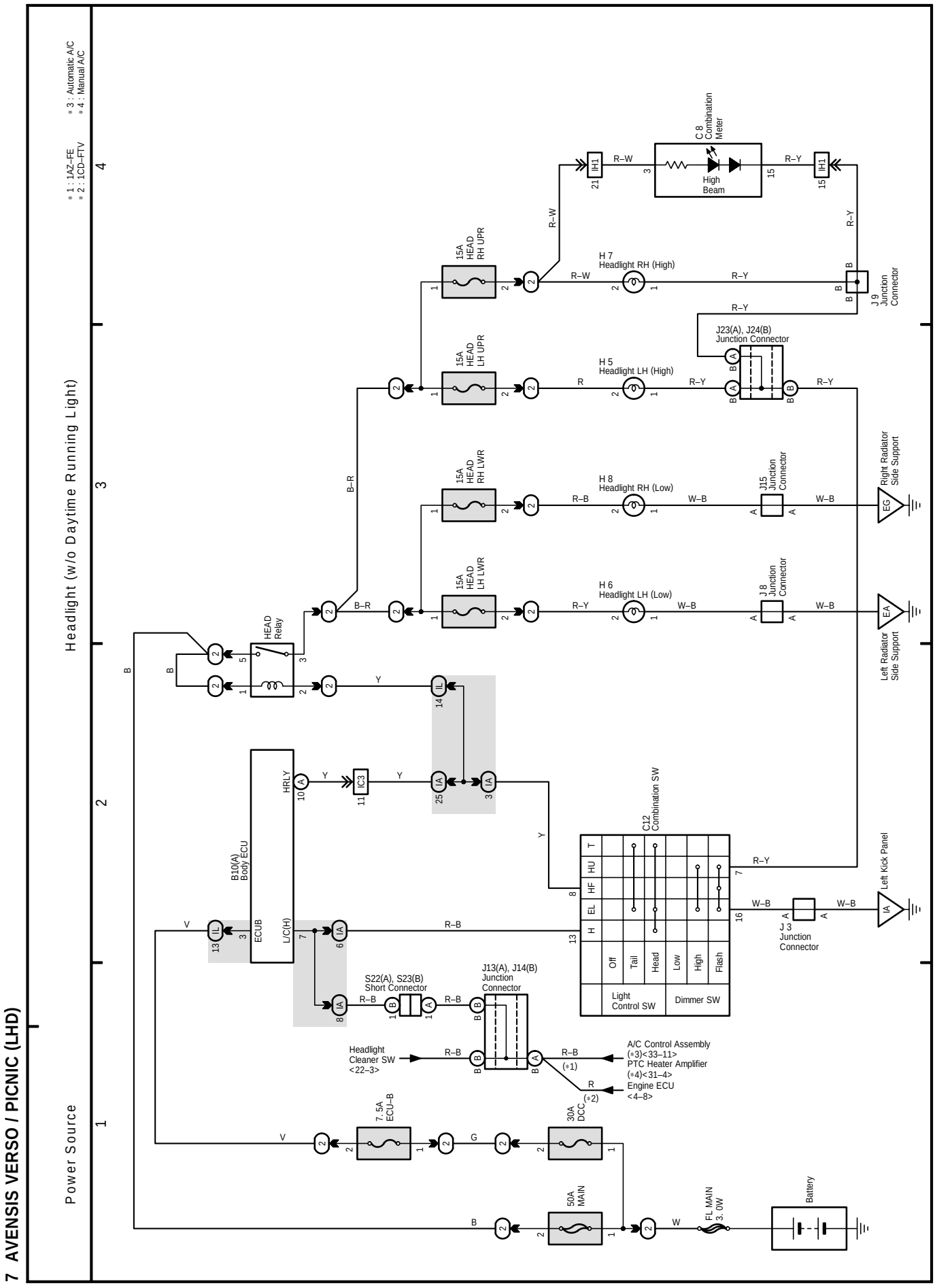


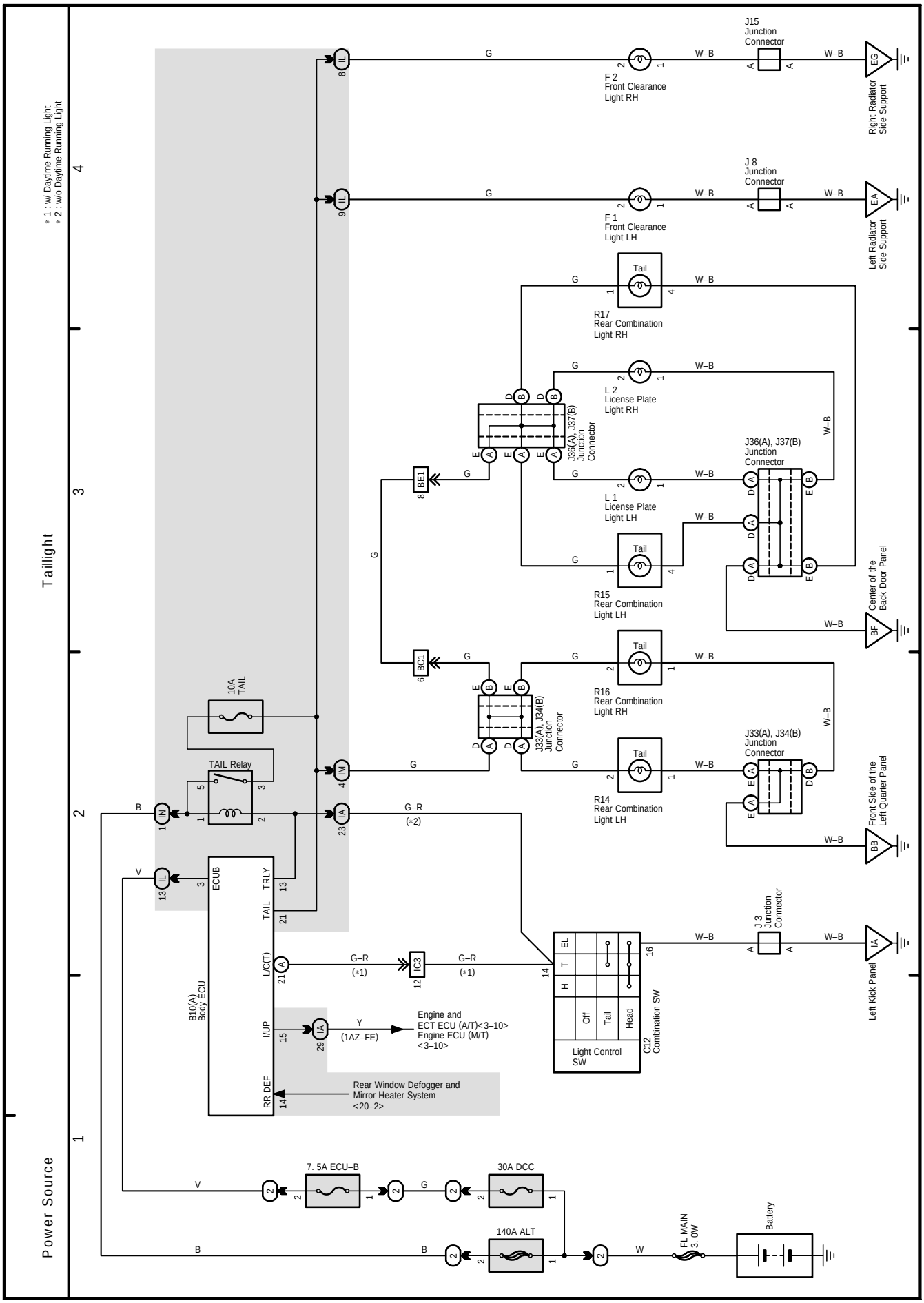

(Cont. next page)
5 AVENSIS VERSO / PICNIC (LHD)
Power Source
ECT and A/T Indicator
1
2
3
4
E19
Fuse Holder
7. 5A MET–IG
E1
ECT Solenoid
E 7(A), E 8(B), E 9(C), E10(D), E11(E)
Engine and ECT ECU
O 2
O/D Main SW
K 2
Kick Down SW
J16
Junction
Connector
J19
Junction
Connector
T 3
Turbine Speed Sensor
C 4
Counter Gear Speed
Sensor
Right Kick Panel
Left Side of
Cylinder Block
Intake Side of
Cylinder Block
Left Kick Panel
Left Radiator
Side Support
7. 5A
GAUGE
IG1
Relay
10A
IGN
25A
AM1
EFI Relay
15A EFI
10A ETCS
30A AM2
140A ALT
I14
Ignition SW
ACC
IG1
ST1
IG2
AM1
AM2
FL MAIN
3. 0W
Battery
ODMS
KD
NT–
NT+
NC–
NC+
ME01
E04
E03
E02
E01
E1
EOM
+B
MREL
BATT
+BM
IGSW
E2
THO1
SL1–
SL1+
SL2–
SL2+
SLT–
SLT+
DSL
S4

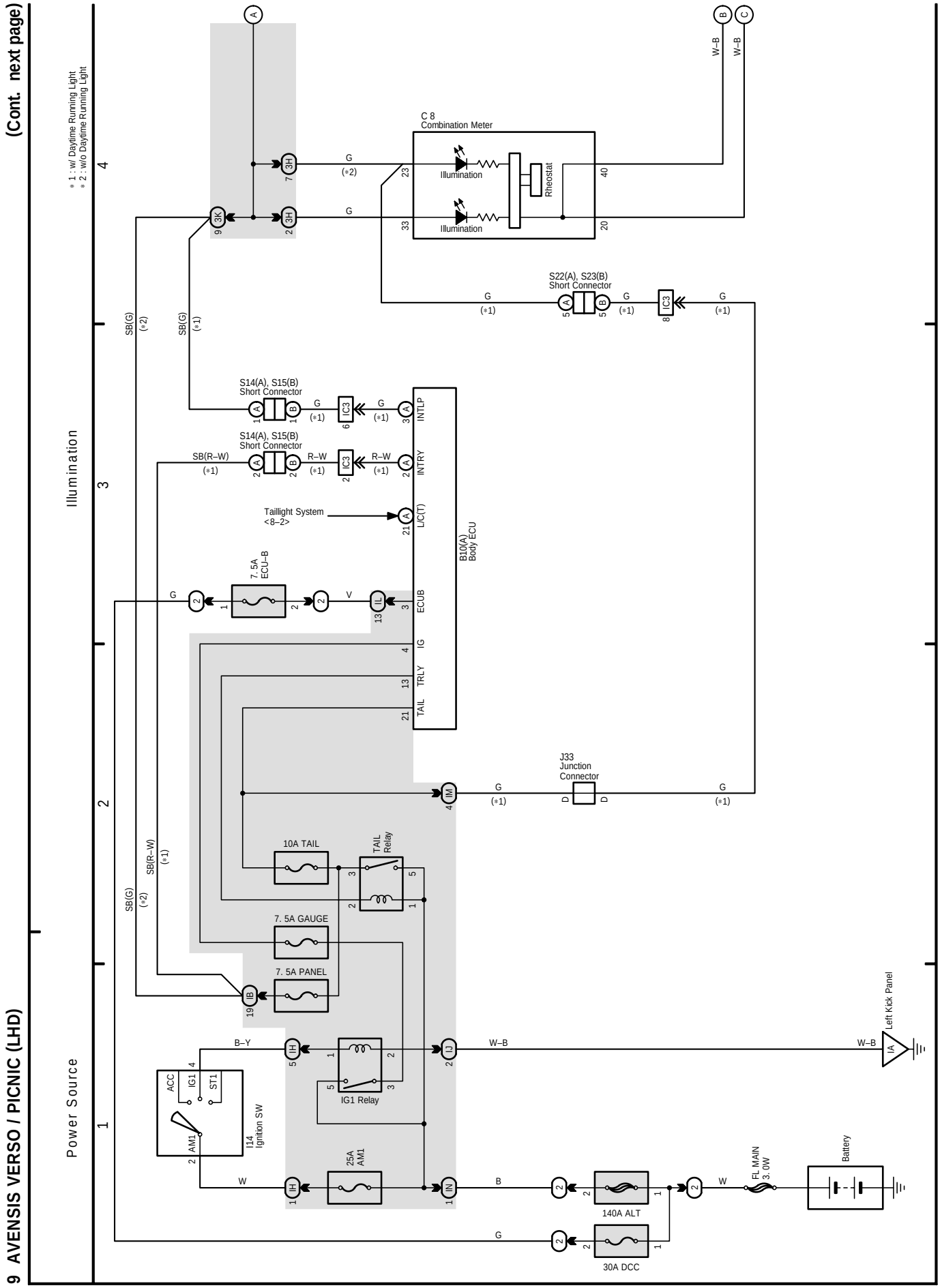
5 AVENSIS VERSO / PICNIC (LHD) (Cont' d)

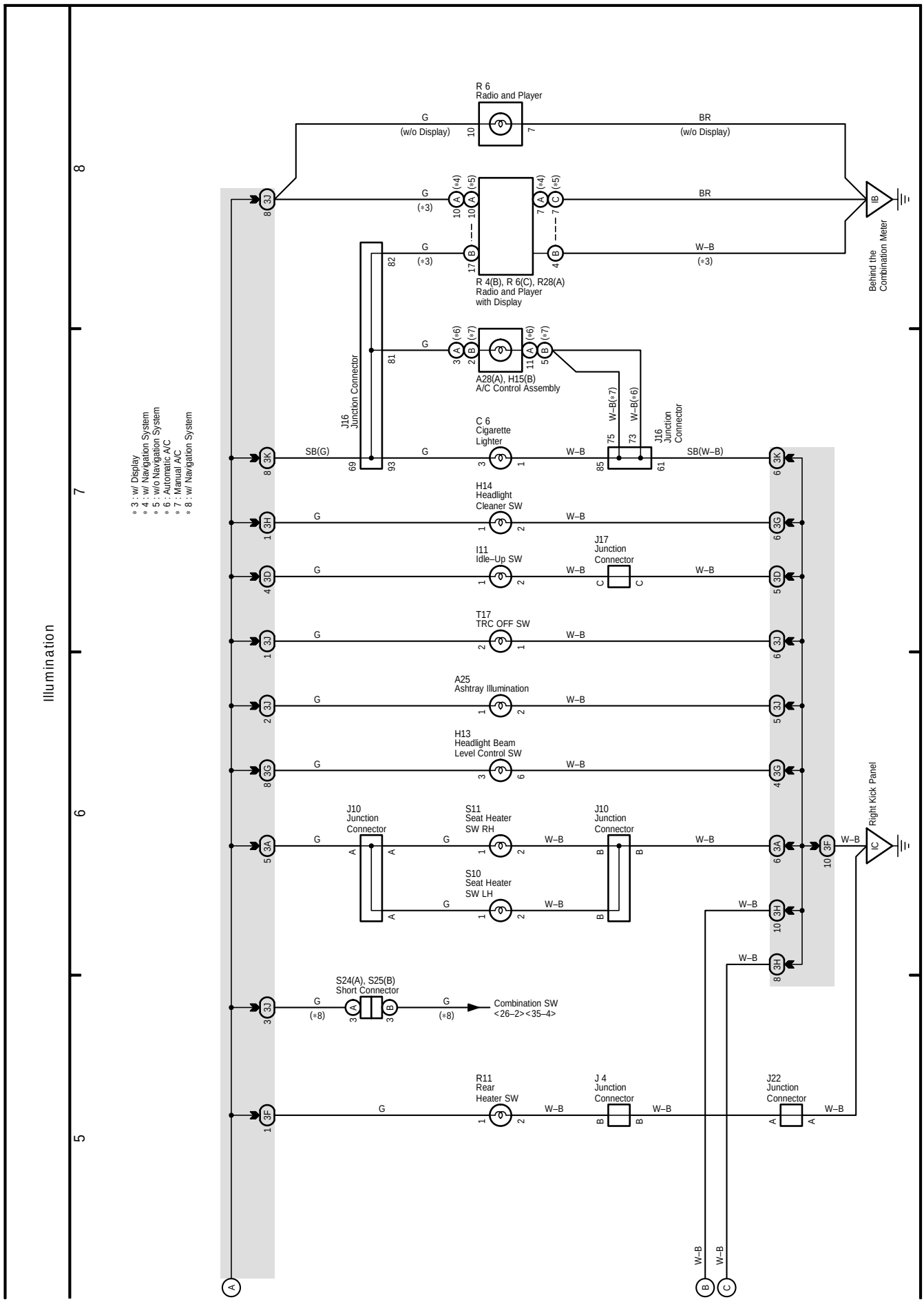


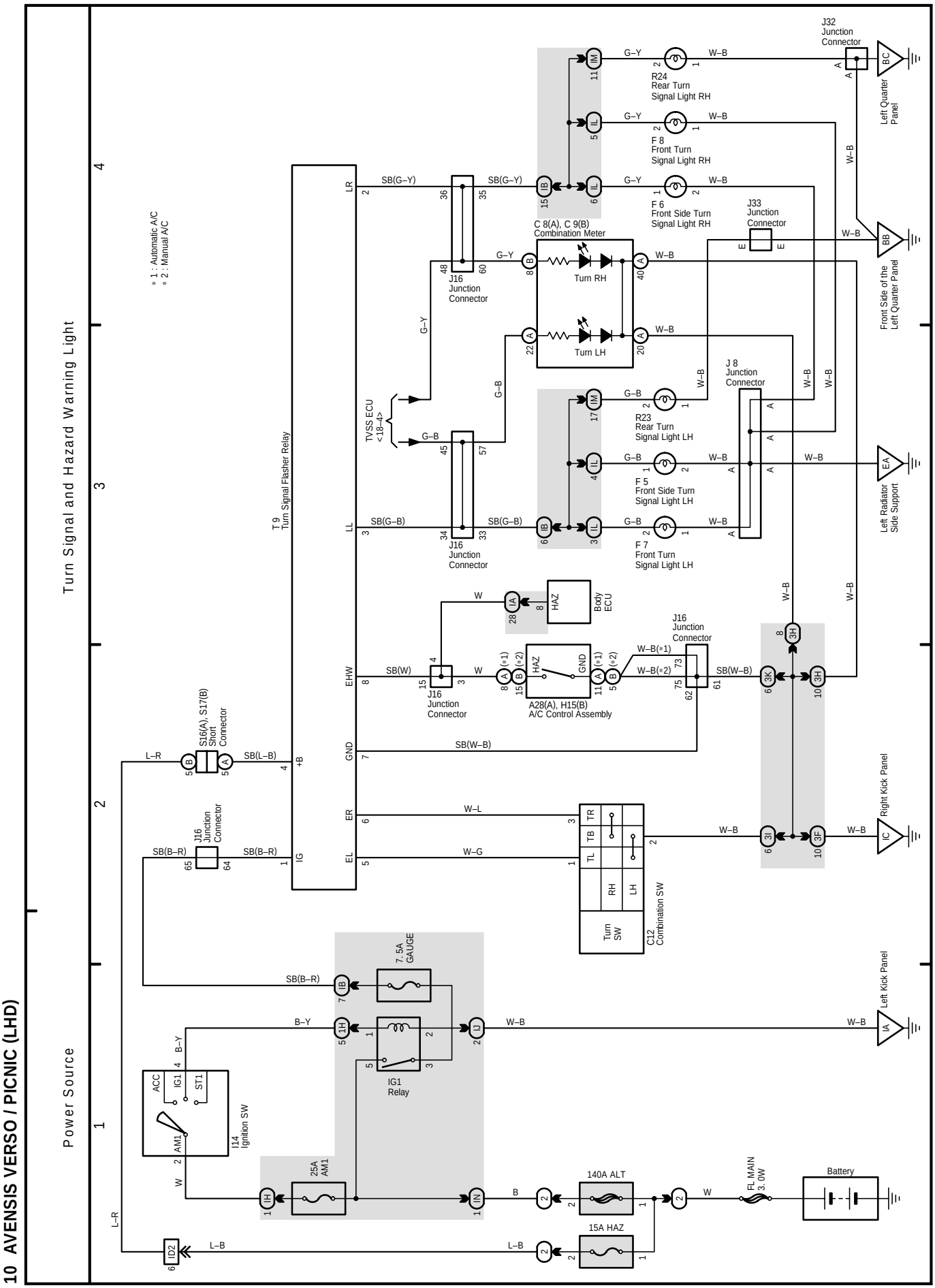

6 AVENSIS VERSO / PICNIC (LHD)
Power Source
Headlight (w/ Daytime Running Light)
* 1 : 1AZ–FE
* 2 : 1CD–FTV
* 3 : Automatic A/C
* 4 : Manual A/C
C 8 Combination Meter
High Beam
H 7 Headlight RH (High)
H 5 Headlight LH (High)
H 8 Headlight RH (Low)
H 6 Headlight LH (Low)
15A HEAD RH UPR
15A HEAD LH UPR
15A HEAD RH LWR
15A HEAD LH LWR
DIMMER Relay
HEAD Relay
J 9 Junction Connector
J 3 Junction Connector
J23(A), J24(B) Junction Connector
J15 Junction Connector
J 8 Junction Connector
Left Kick Panel
Right Radiator Side Support
Left Radiator Side Support
B10(A) Body ECU
ECUB
HRLY
DIM RLY
L/C(T)
L/C(HU)
L/C(HF)
INT LP
L/C(H)
ALT L
IG
Illumination System<9–3>
C12 Combination SW
Light Control SW
Dimmer SW
Off
Tail
Head
Low
High
Flash
S22(A), S23(B) Short Connector
Alternator <2–4>
J13(A), J14(B) Junction Connector
Headlight Cleaner SW <22–3>
A/C Control Assembly (*3)<33–11>
PTC Heater Amplifier (*4)<31–4>
Engine ECU <4–8>
7. 5A GAUGE
IG1 Relay
I14 Ignition SW
ACC
IG1
ST1
AM1
25A AM1
140A ALT
30A DCC
50A MAIN
7. 5A ECU–B
FL MAIN 3. 0W
Battery

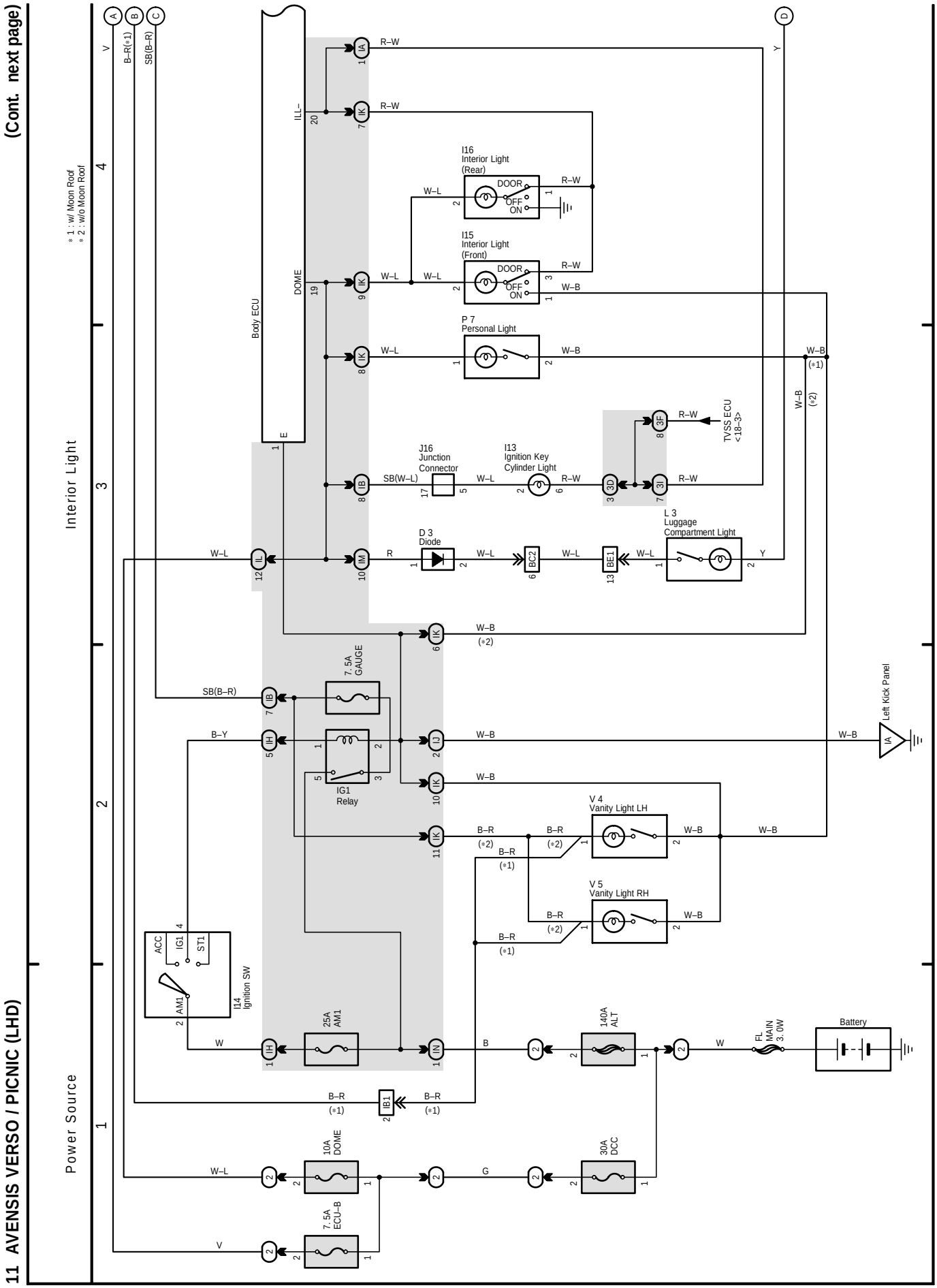

7 AVENSIS VERSO / PICNIC (LHD)
Power Source
Headlight (w/o Daytime Running Light)
* 1 : 1AZ–FE
* 2 : 1CD–FTV
* 3 : Automatic A/C
* 4 : Manual A/C
Battery
FL MAIN 3.0W
50A MAIN
30A DCC
7.5A ECU–B
HEAD Relay
15A HEAD RH UPR
15A HEAD LH UPR
15A HEAD RH LWR
15A HEAD LH LWR
H 5 Headlight LH (High)
H 6 Headlight LH (Low)
H 7 Headlight RH (High)
H 8 Headlight RH (Low)
C 8 Combination Meter
High Beam
J 9 Junction Connector
J23(A), J24(B) Junction Connector
J15 Junction Connector
J 8 Junction Connector
J 3 Junction Connector
Right Radiator Side Support
Left Radiator Side Support
Left Kick Panel
B10(A) Body ECU
ECUB
L/C(H)
HRLY
IC3
C12 Combination SW
Light Control SW
Dimmer SW
Off
Tail
Head
Low
High
Flash
S22(A), S23(B) Short Connector
J13(A), J14(B) Junction Connector
Headlight Cleaner SW <22–3>
A/C Control Assembly (*3)<33–11>
PTC Heater Amplifier (*4)<31–4>
Engine ECU <4–8>
(*1)
(*2)

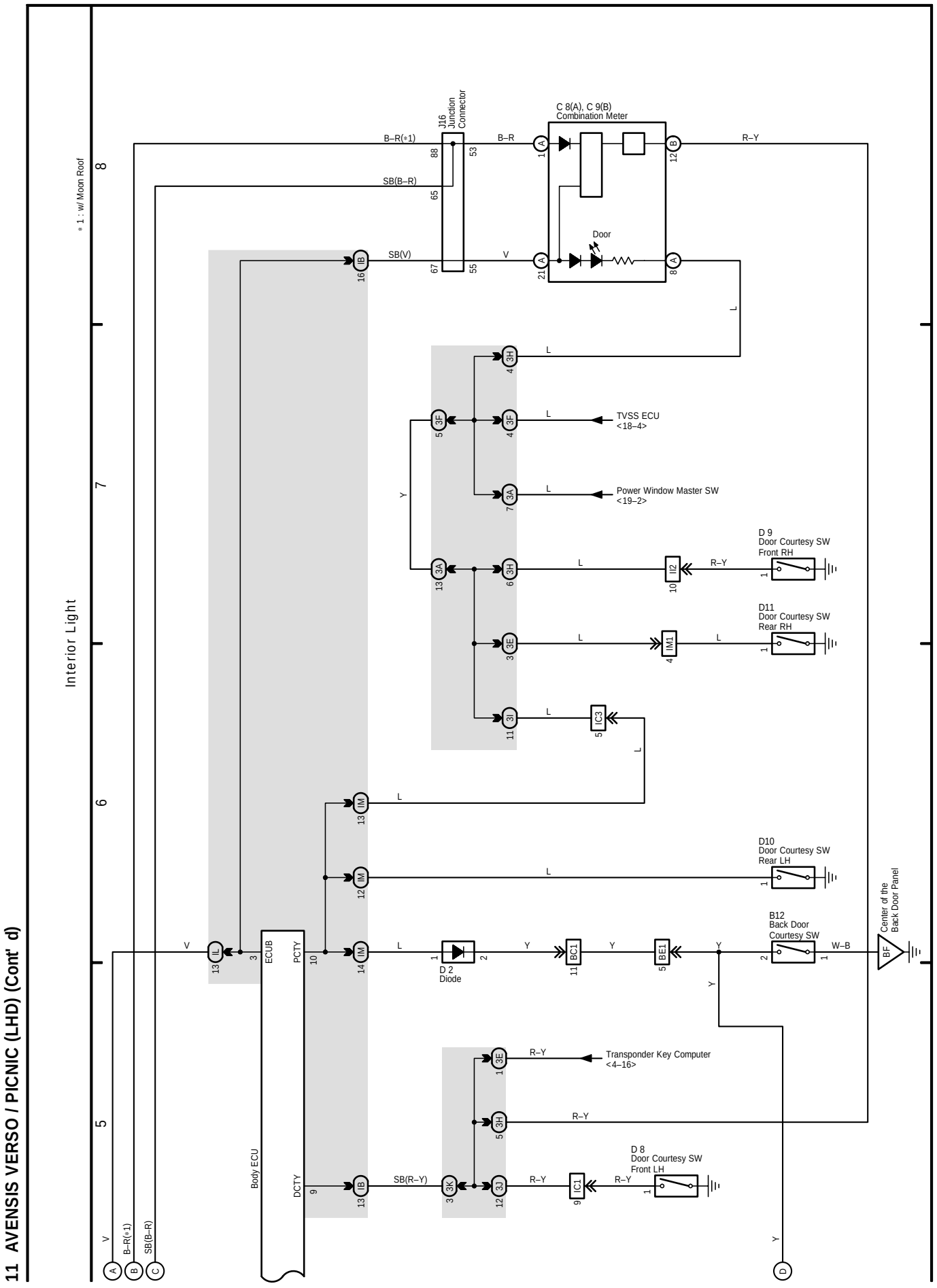

8 AVENSIS VERSO / PICNIC (LHD)
Power Source
Taillight
1
2
3
4
* 1 : w/ Daytime Running Light
* 2 : w/o Daytime Running Light
J15 Junction Connector
F 2 Front Clearance Light RH
Right Radiator Side Support
J 8 Junction Connector
F 1 Front Clearance Light LH
Left Radiator Side Support
Tail
R17 Rear Combination Light RH
L 2 License Plate Light RH
J36(A), J37(B) Junction Connector
L 1 License Plate Light LH
R15 Rear Combination Light LH
Center of the Back Door Panel
R16 Rear Combination Light RH
J33(A), J34(B) Junction Connector
R14 Rear Combination Light LH
Front Side of the Left Quarter Panel
10A TAIL
TAIL Relay
G–R (*2)
B10(A) Body ECU
ECUB
TRLY
TAIL
L/C(T)
I/UP
RR DEF
G–R (*1)
IC3
Y (1AZ–FE)
Engine and ECT ECU (A/T)<3–10> Engine ECU (M/T) <3–10>
Rear Window Defogger and Mirror Heater System <20–2>
Light Control SW
C12 Combination SW
J 3 Junction Connector
Left Kick Panel
7. 5A ECU–B
30A DCC
140A ALT
FL MAIN 3. 0W
Battery

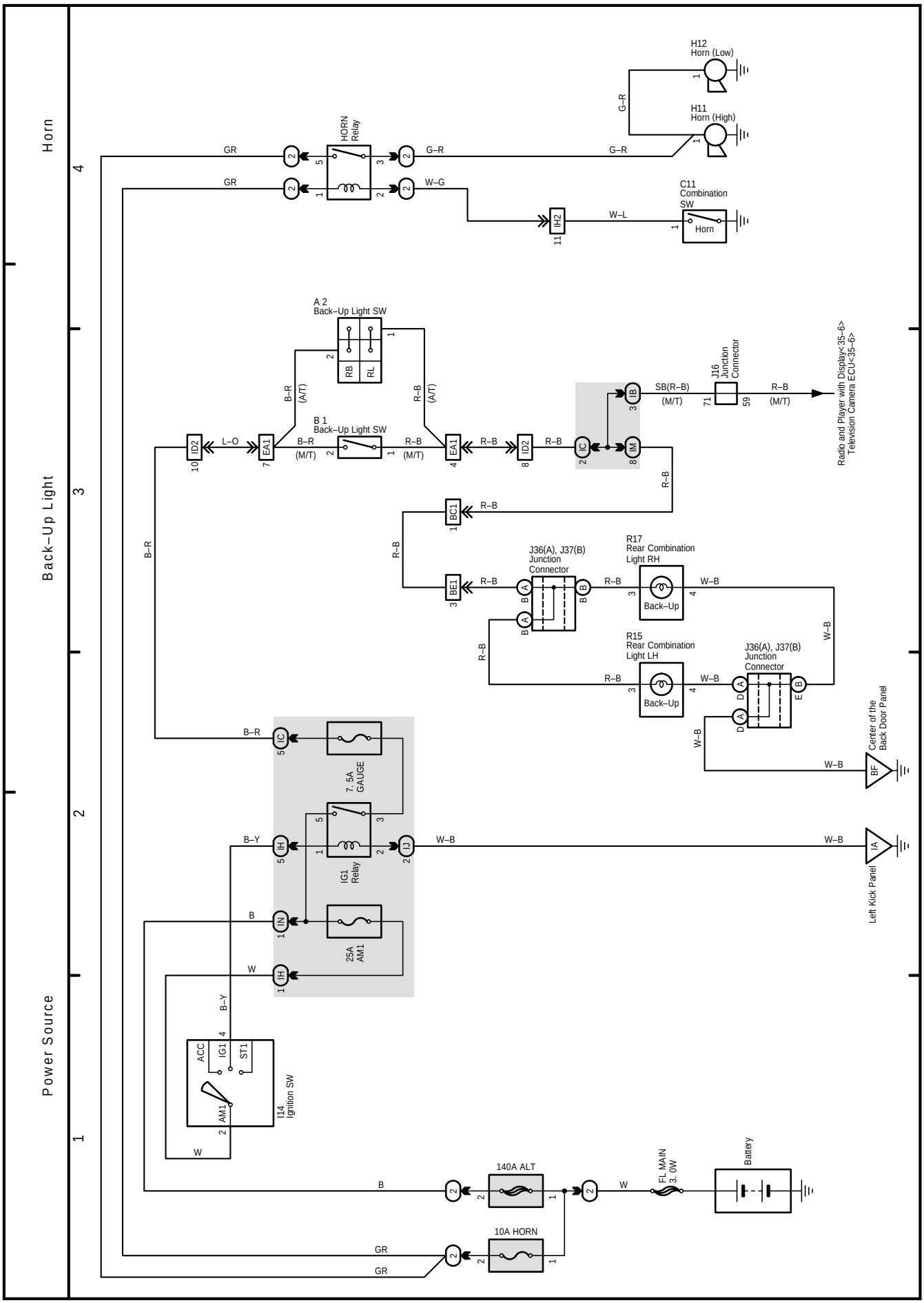

(Cont. next page)
9 AVENSIS VERSO / PICNIC (LHD)
Power Source
Illumination
* 1 : w/ Daytime Running Light
* 2 : w/o Daytime Running Light
C 8
Combination Meter
Illumination
Rheostat
S22(A), S23(B)
Short Connector
S14(A), S15(B)
Short Connector
Taillight System
<8–2>
B10(A)
Body ECU
J33
Junction
Connector
10A TAIL
TAIL
Relay
7. 5A GAUGE
7. 5A PANEL
7. 5A
ECU–B
IG1 Relay
I14
Ignition SW
25A
AM1
140A ALT
30A DCC
FL MAIN
3. 0W
Battery
Left Kick Panel
INTLP
INTRY
L/C(T)
ECUB
IG
TRLY
TAIL


9 AVENSIS VERSO / PICNIC (LHD) (Cont' d)
Illumination
* 3 : w/ Display
* 4 : w/ Navigation System
* 5 : w/o Navigation System
* 6 : Automatic A/C
* 7 : Manual A/C
* 8 : w/ Navigation System
R 6
Radio and Player
G
(w/o Display)
BR
(w/o Display)
BR
W–B
(*3)
R 4(B), R 6(C), R28(A)
Radio and Player
with Display
Behind the
Combination Meter
A28(A), H15(B)
A/C Control Assembly
J16
Junction Connector
C 6
Cigarette
Lighter
H14
Headlight
Cleaner SW
I11
Idle–Up SW
J17
Junction
Connector
T17
TRC OFF SW
A25
Ashtray Illumination
H13
Headlight Beam
Level Control SW
J10
Junction
Connector
S11
Seat Heater
SW RH
S10
Seat Heater
SW LH
S24(A), S25(B)
Short Connector
Combination SW
<26–2><35–4>
R11
Rear
Heater SW
J 4
Junction
Connector
J22
Junction
Connector
Right Kick Panel
SB(G)
SB(W–B)
W–B(*7)
W–B(*6)

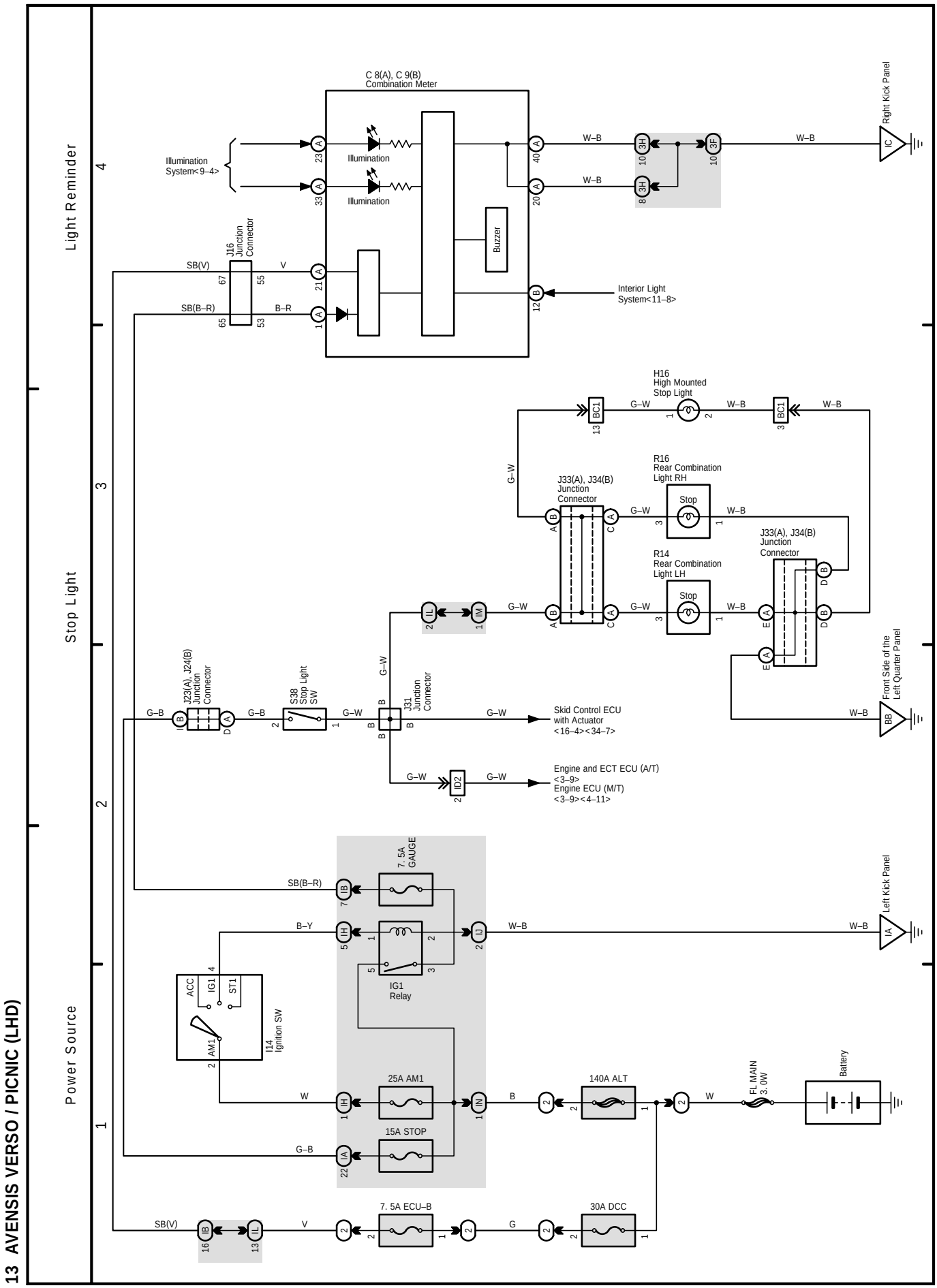

10 AVENSIS VERSO / PICNIC (LHD)
Power Source
Turn Signal and Hazard Warning Light
1
2
3
4
* 1 : Automatic A/C
* 2 : Manual A/C
J32 Junction Connector
Left Quarter Panel
R24 Rear Turn Signal Light RH
F 8 Front Turn Signal Light RH
F 6 Front Side Turn Signal Light RH
J33 Junction Connector
Front Side of the Left Quarter Panel
C 8(A), C 9(B) Combination Meter
Turn RH
Turn LH
J16 Junction Connector
TVSS ECU <18-4>
J 8 Junction Connector
R23 Rear Turn Signal Light LH
F 5 Front Side Turn Signal Light LH
F 7 Front Turn Signal Light LH
Left Radiator Side Support
T 9 Turn Signal Flasher Relay
Body ECU
HAZ
A28(A), H15(B) A/C Control Assembly
S16(A), S17(B) Short Connector
Right Kick Panel
C12 Combination SW
Turn SW
Left Kick Panel
7. 5A GAUGE
IG1 Relay
I14 Ignition SW
ACC
IG1
ST1
AM1
25A AM1
140A ALT
15A HAZ
FL MAIN 3. 0W
Battery
L–R
SB(L–B)
SB(B–R)
W–L
W–G
G–Y
W–B
G–B
SB(G–Y)
SB(G–B)
SB(W)
W
SB(W–B)
W–B(*1)
W–B(*2)
B–Y
B
L–B

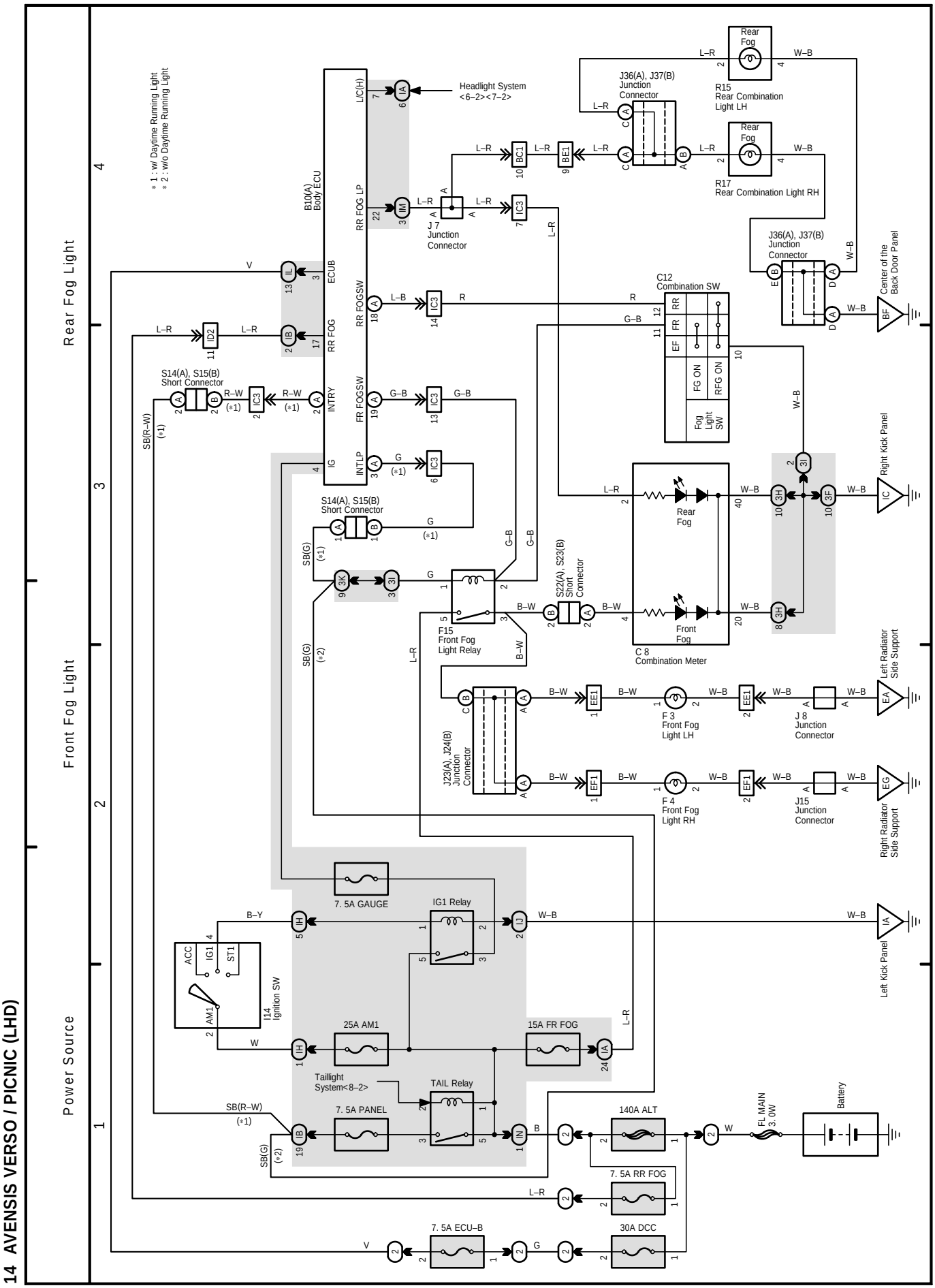

(Cont. next page)
11 AVENSIS VERSO / PICNIC (LHD)
Power Source
Interior Light
* 1 : w/ Moon Roof
* 2 : w/o Moon Roof
Body ECU
ILL–
DOME
E
I16 Interior Light (Rear)
I15 Interior Light (Front)
P 7 Personal Light
J16 Junction Connector
I13 Ignition Key Cylinder Light
L 3 Luggage Compartment Light
D 3 Diode
TVSS ECU <18–3>
IG1 Relay
7.5A GAUGE
25A AM1
140A ALT
10A DOME
30A DCC
7.5A ECU–B
I14 Ignition SW
ACC
IG1
ST1
AM1
V 4 Vanity Light LH
V 5 Vanity Light RH
Left Kick Panel
Battery
FL MAIN 3.0W
DOOR
OFF
ON
R–W
W–L
W–B
SB(W–L)
SB(B–R)
B–Y
B–R
W
B
G
R
Y
V


11 AVENSIS VERSO / PICNIC (LHD) (Cont' d)
Interior Light
* 1 : w/ Moon Roof
J16 Junction Connector
C 8(A), C 9(B) Combination Meter
Door
TVSS ECU <18–4>
Power Window Master SW <19–2>
D 9 Door Courtesy SW Front RH
D11 Door Courtesy SW Rear RH
D10 Door Courtesy SW Rear LH
D 8 Door Courtesy SW Front LH
D 2 Diode
B12 Back Door Courtesy SW
Center of the Back Door Panel
Transponder Key Computer <4–16>
Body ECU
ECUB
PCTY
DCTY
B–R(*1)
B–R
SB(B–R)
SB(V)
SB(R–Y)
R–Y
W–B
L
Y
V

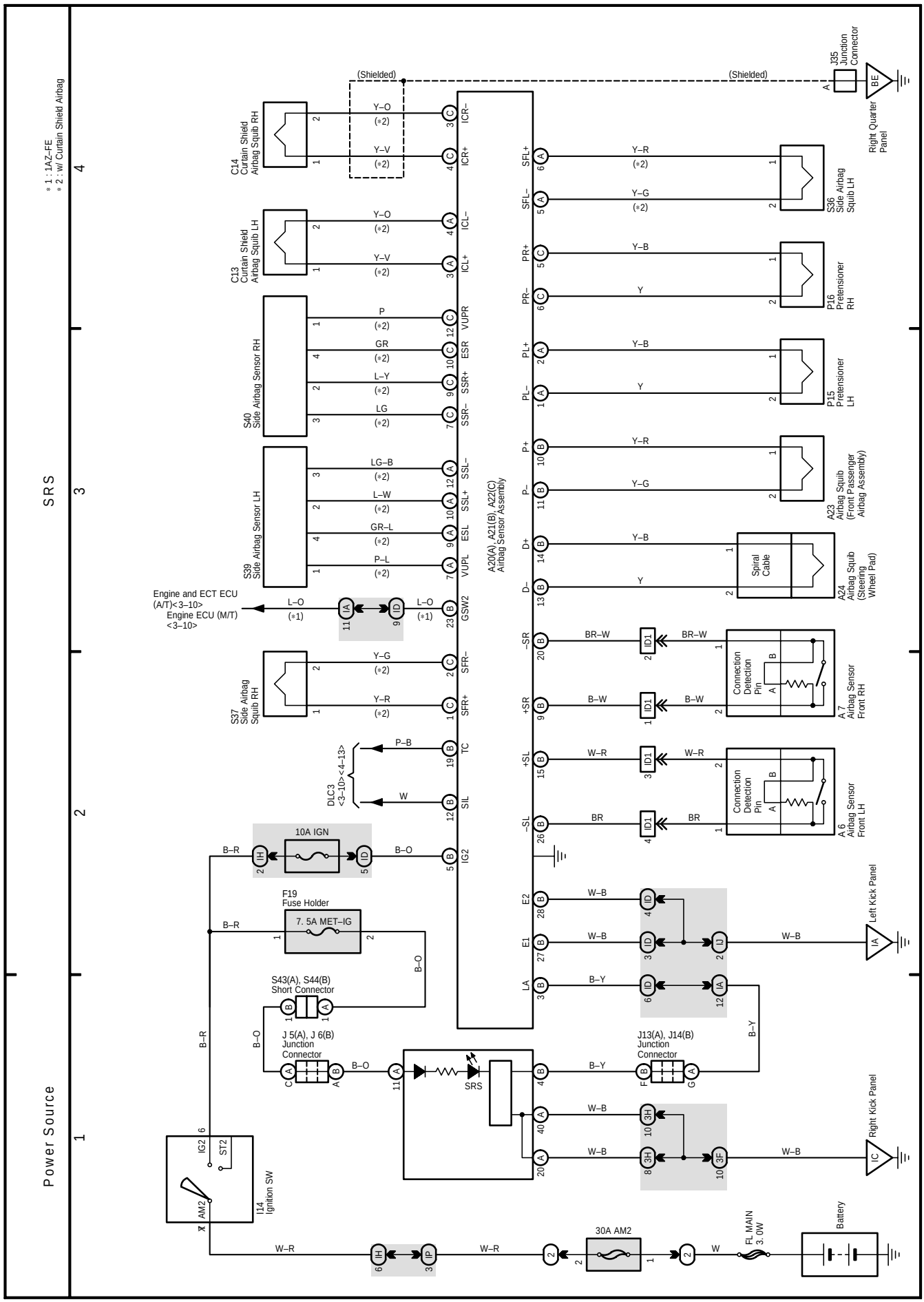


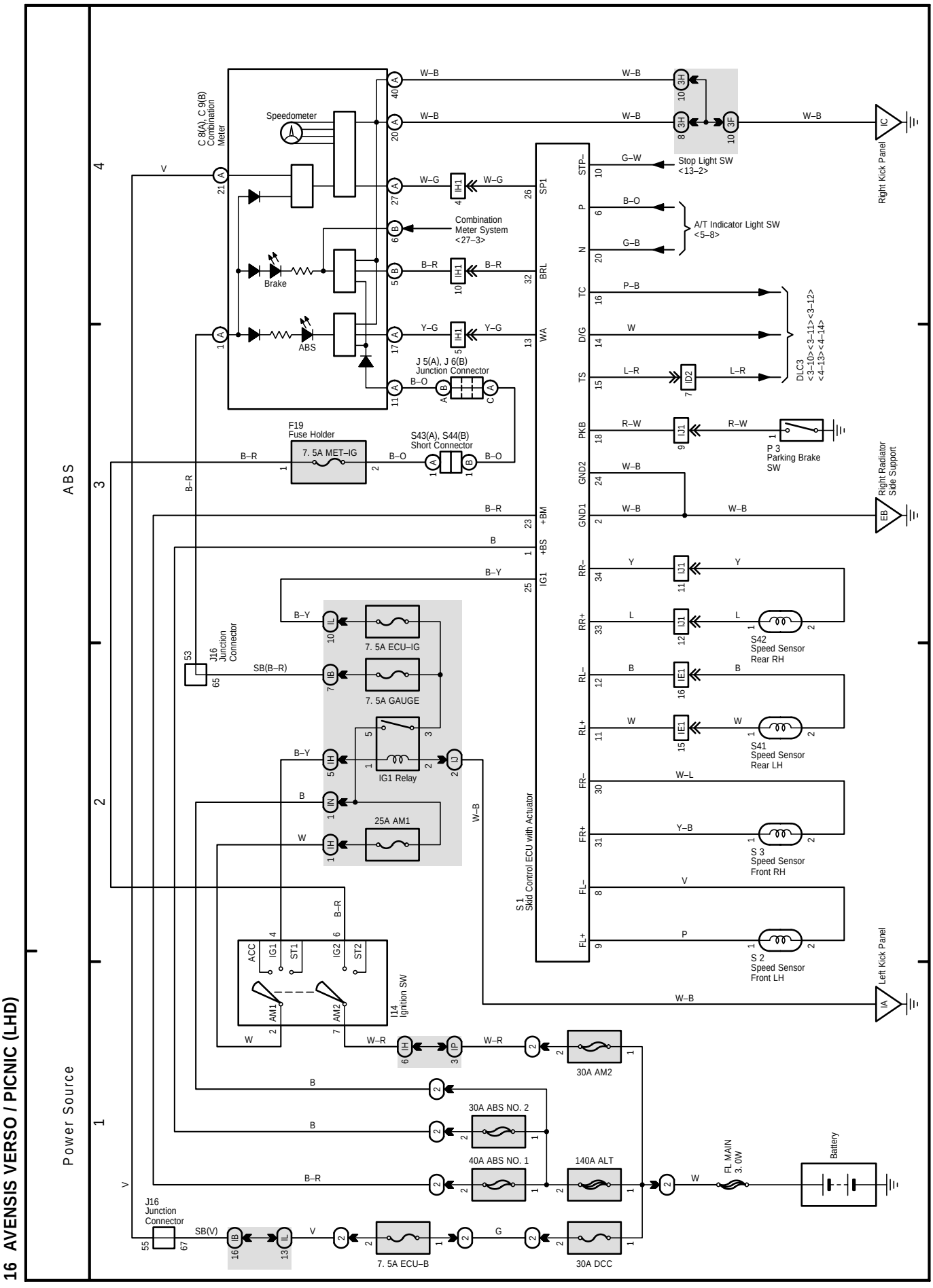
12 AVENSIS VERSO / PICNIC (LHD)

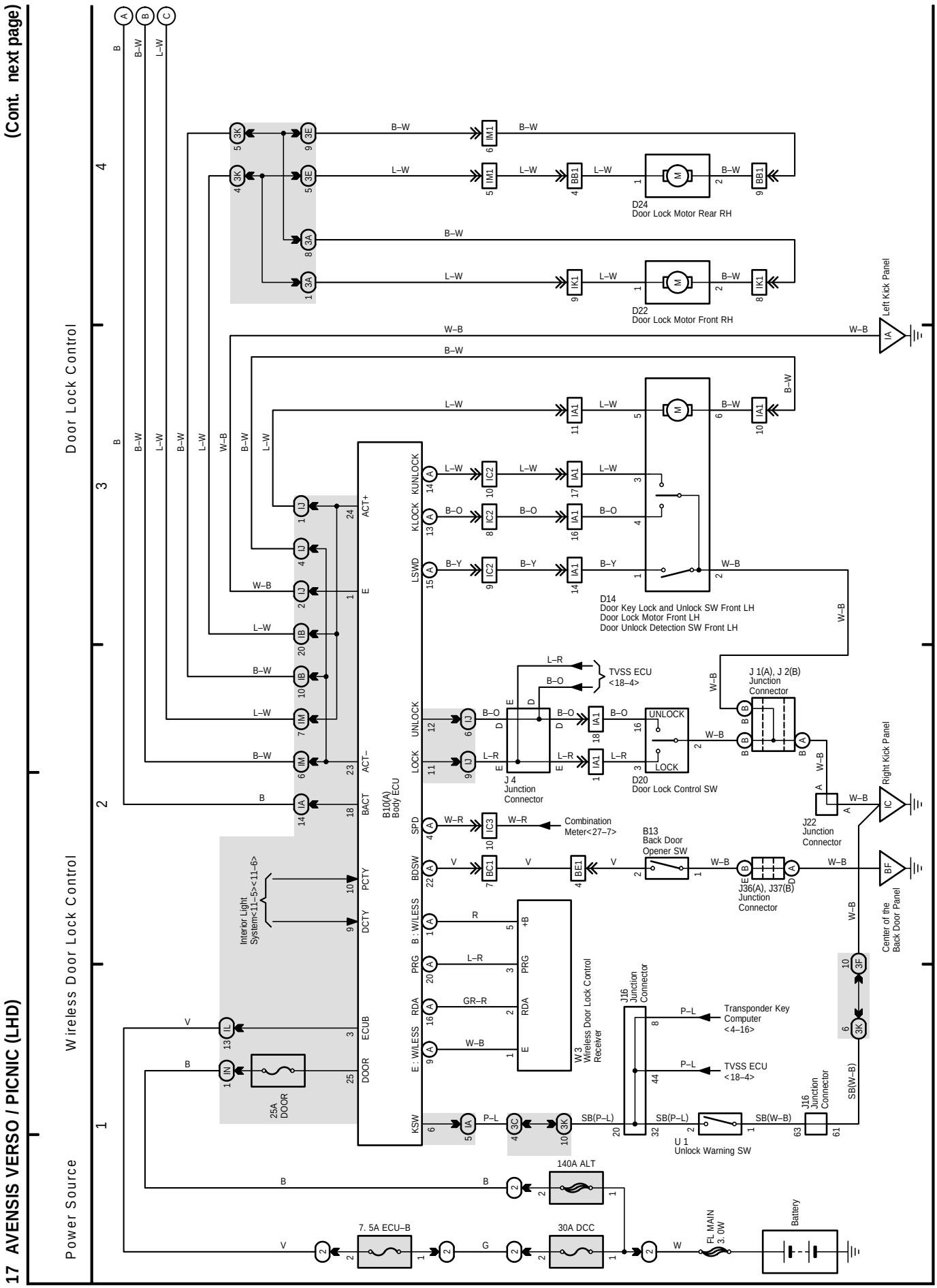

13 AVENSIS VERSO / PICNIC (LHD)
Power Source
Stop Light
Light Reminder
1
2
3
4
C 8(A), C 9(B)
Combination Meter
Illumination
Illumination
Illumination
Buzzer
Illumination System<9–4>
Interior Light System<11–8>
J16 Junction Connector
Right Kick Panel
H16 High Mounted Stop Light
R16 Rear Combination Light RH
R14 Rear Combination Light LH
J33(A), J34(B) Junction Connector
J23(A), J24(B) Junction Connector
S38 Stop Light SW
J31 Junction Connector
Skid Control ECU with Actuator <16–4><34–7>
Engine and ECT ECU (A/T) <3–9>
Engine ECU (M/T) <3–9><4–11>
Front Side of the Left Quarter Panel
Left Kick Panel
7. 5A GAUGE
IG1 Relay
I14 Ignition SW
ACC
IG1
ST1
AM1
25A AM1
15A STOP
140A ALT
FL MAIN 3. 0W
Battery
7. 5A ECU–B
30A DCC
SB(V)
SB(B–R)
B–R
V
W–B
G–W
G–B
B–Y
W
B
G


14 AVENSIS VERSO / PICNIC (LHD)
Power Source
Front Fog Light
Rear Fog Light
* 1 : w/ Daytime Running Light
* 2 : w/o Daytime Running Light
B10(A) Body ECU
Headlight System <6–2><7–2>
J36(A), J37(B) Junction Connector
R15 Rear Combination Light LH
R17 Rear Combination Light RH
J 7 Junction Connector
C12 Combination SW
Center of the Back Door Panel
S14(A), S15(B) Short Connector
S22(A), S23(B) Short Connector
F15 Front Fog Light Relay
C 8 Combination Meter
F 3 Front Fog Light LH
F 4 Front Fog Light RH
J 8 Junction Connector
J15 Junction Connector
J23(A), J24(B) Junction Connector
Left Radiator Side Support
Right Radiator Side Support
Right Kick Panel
Left Kick Panel
7. 5A GAUGE
IG1 Relay
I14 Ignition SW
25A AM1
15A FR FOG
Taillight System<8–2>
TAIL Relay
7. 5A PANEL
140A ALT
Battery
7. 5A RR FOG
7. 5A ECU–B
30A DCC

15 AVENSIS VERSO / PICNIC (LHD)




16 AVENSIS VERSO / PICNIC (LHD)
Power Source
ABS
Speedometer
C 8(A), C 9(B) Combination Meter
Brake
ABS
Combination Meter System <27–3>
J 5(A), J 6(B) Junction Connector
F19 Fuse Holder
7. 5A MET–IG
S43(A), S44(B) Short Connector
J16 Junction Connector
7. 5A ECU–IG
7. 5A GAUGE
IG1 Relay
25A AM1
I14 Ignition SW
ACC
IG1
ST1
IG2
ST2
AM1
AM2
30A AM2
30A ABS NO. 2
40A ABS NO. 1
140A ALT
7. 5A ECU–B
30A DCC
FL MAIN 3. 0W
Battery
Stop Light SW <13–2>
A/T Indicator Light SW <5–8>
DLC3 <3–10><3–11><3–12><4–13><4–14>
P 3 Parking Brake SW
S 1 Skid Control ECU with Actuator
S42 Speed Sensor Rear RH
S41 Speed Sensor Rear LH
S 3 Speed Sensor Front RH
S 2 Speed Sensor Front LH
Right Kick Panel
Right Radiator Side Support
Left Kick Panel
STP–
P
N
TC
D/G
TS
PKB
GND2
GND1
SP1
BRL
WA
+BM
+BS
IG1
RR–
RR+
RL–
RL+
FR–
FR+
FL–
FL+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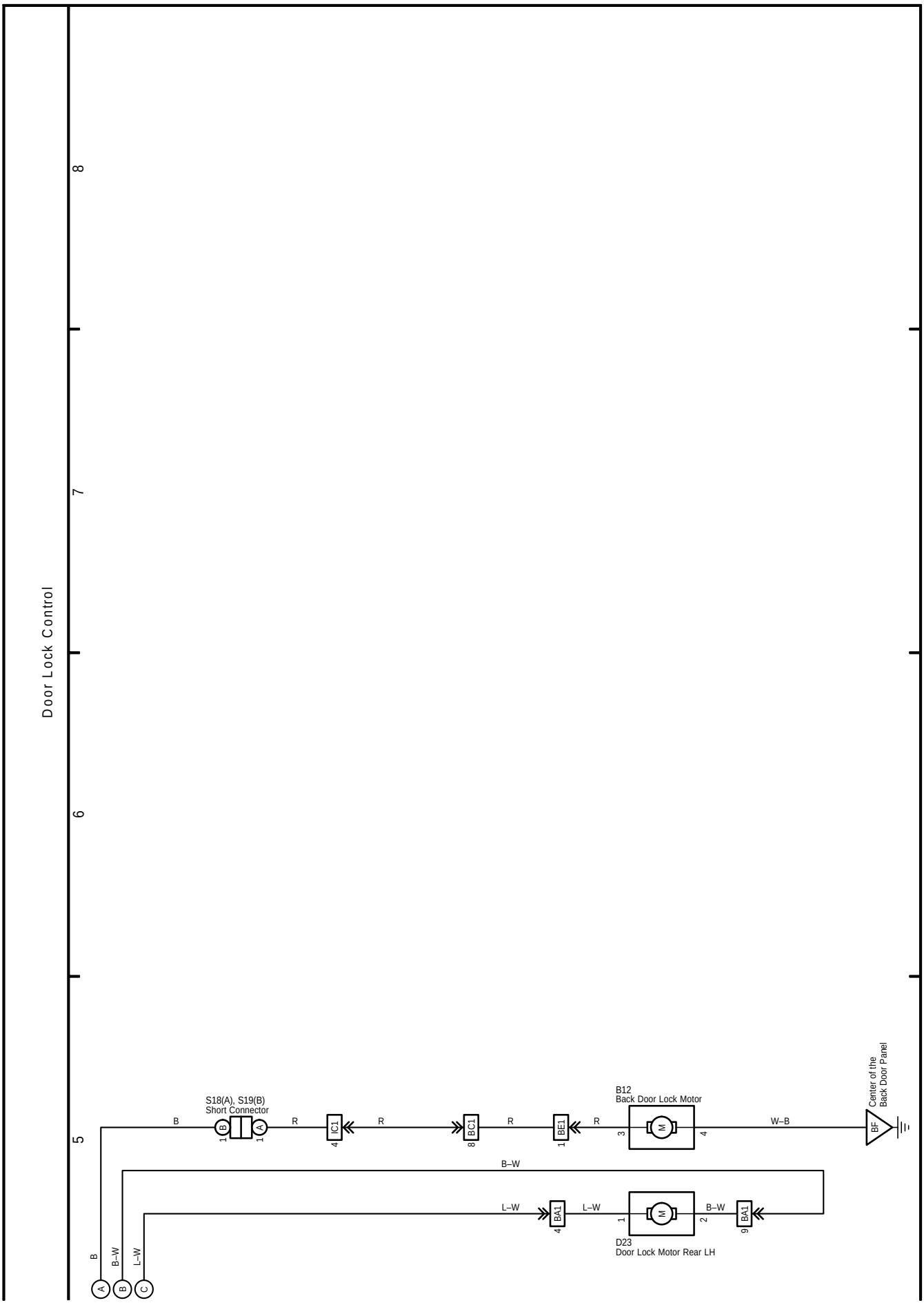
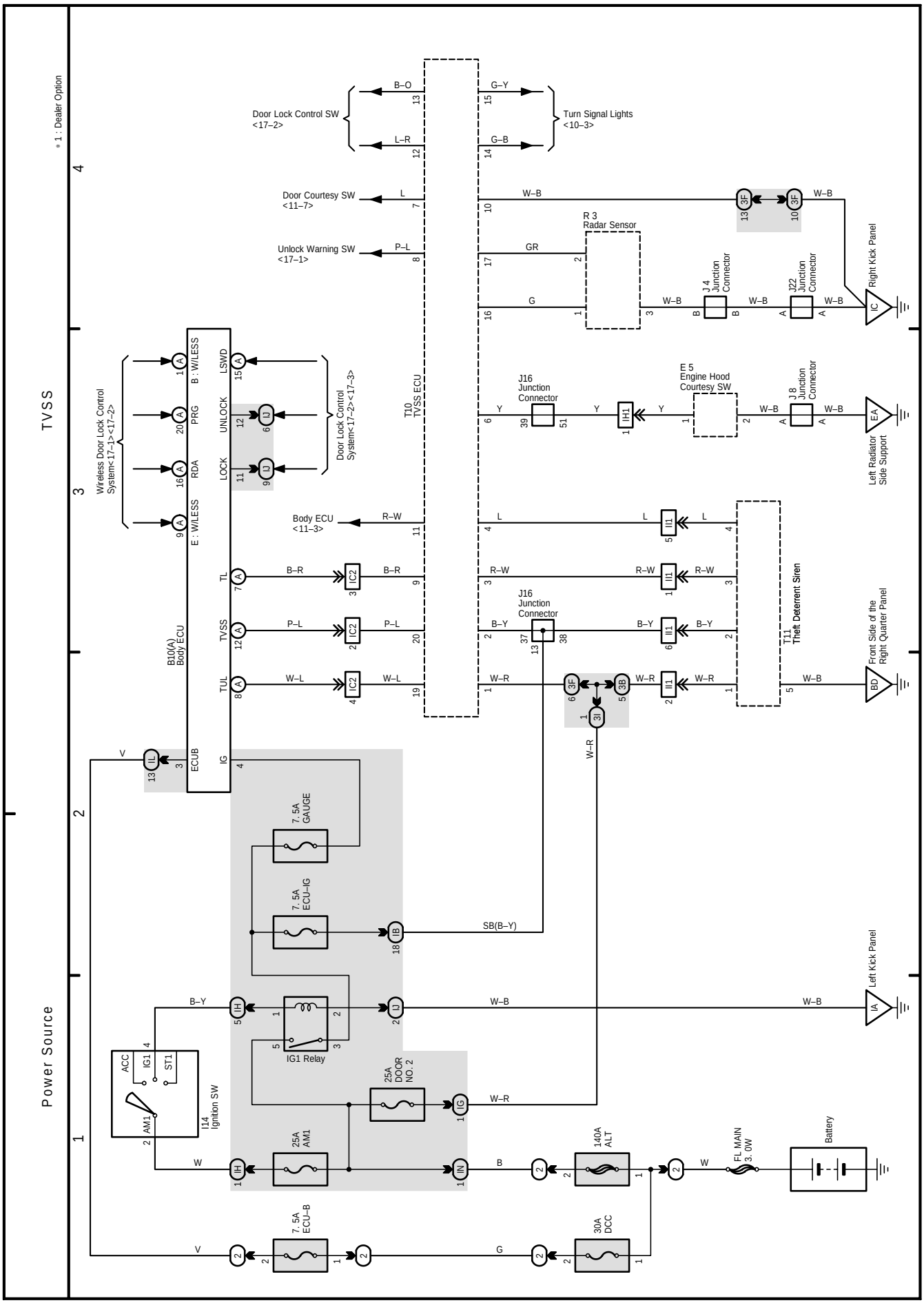
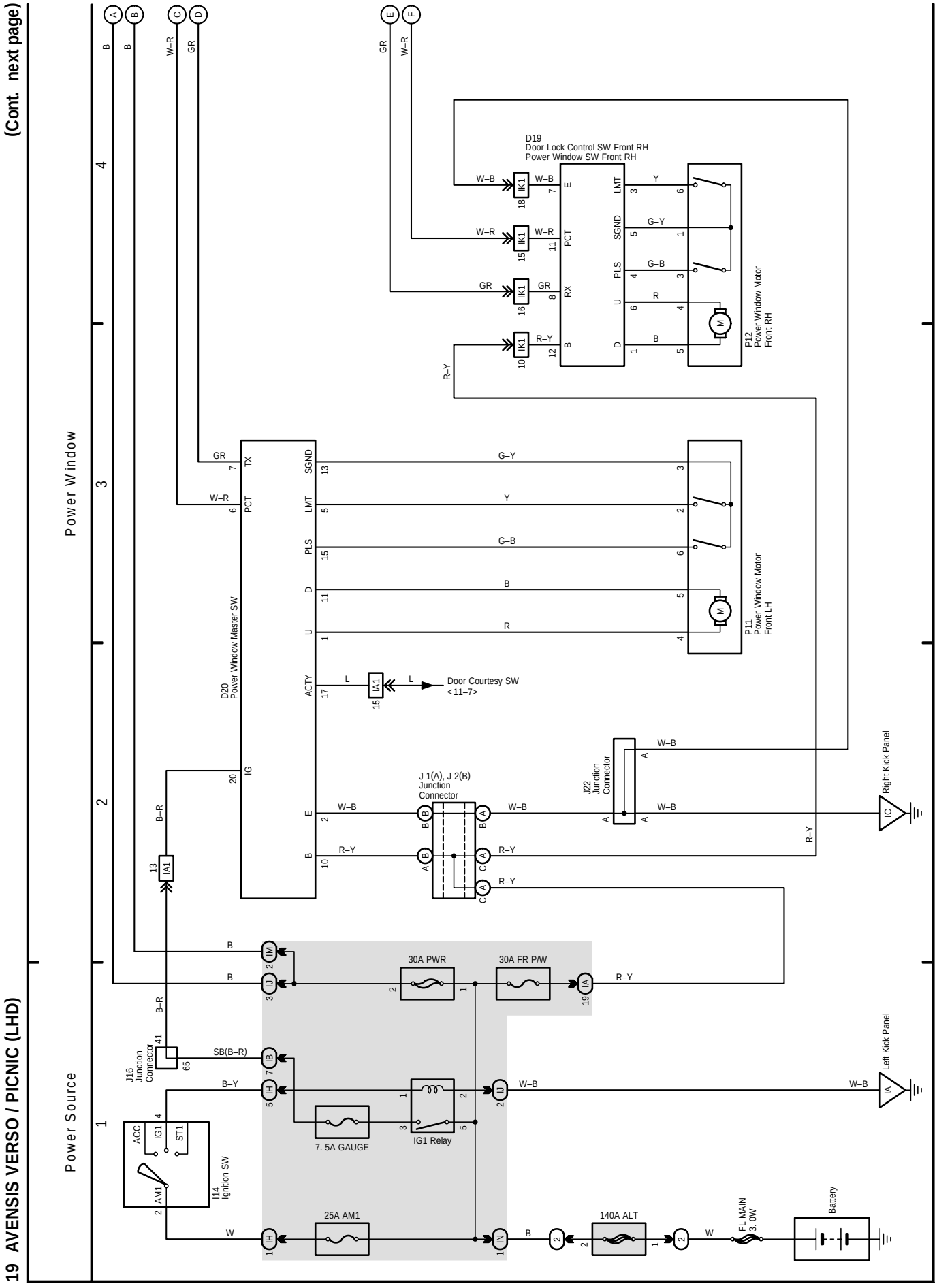
17 AVENSIS VERSO / PICNIC (LHD)
Power Source
Wireless Door Lock Control
Door Lock Control
D24
Door Lock Motor Rear RH
D22
Door Lock Motor Front RH
D14
Door Key Lock and Unlock SW Front LH
Door Lock Motor Front LH
Door Unlock Detection SW Front LH
D20
Door Lock Control SW
J 4
Junction Connector
J 1(A), J 2(B)
Junction Connector
J22
Junction Connector
J36(A), J37(B)
Junction Connector
B13
Back Door Opener SW
U 1
Unlock Warning SW
J16
Junction Connector
W 3
Wireless Door Lock Control Receiver
B10(A)
Body ECU
Interior Light System<11–5><11–6>
Combination Meter<27–7>
TVSS ECU <18–4>
Transponder Key Computer <4–16>
Left Kick Panel
Right Kick Panel
Center of the Back Door Panel
140A ALT
Battery
7. 5A ECU–B
30A DCC
25A DOOR
FL MAIN
3. 0W
KUNLOCK
KLOCK
LSWD
UNLOCK
LOCK
SPD
BDSW
B : WLESS
PRG
RDA
E : WLESS
KSW
ACT+
ACT–
BACT
PCTY
DCTY
ECUB
DOOR
UNLOCK
LOCK
SB(P–L)
SB(W–B)

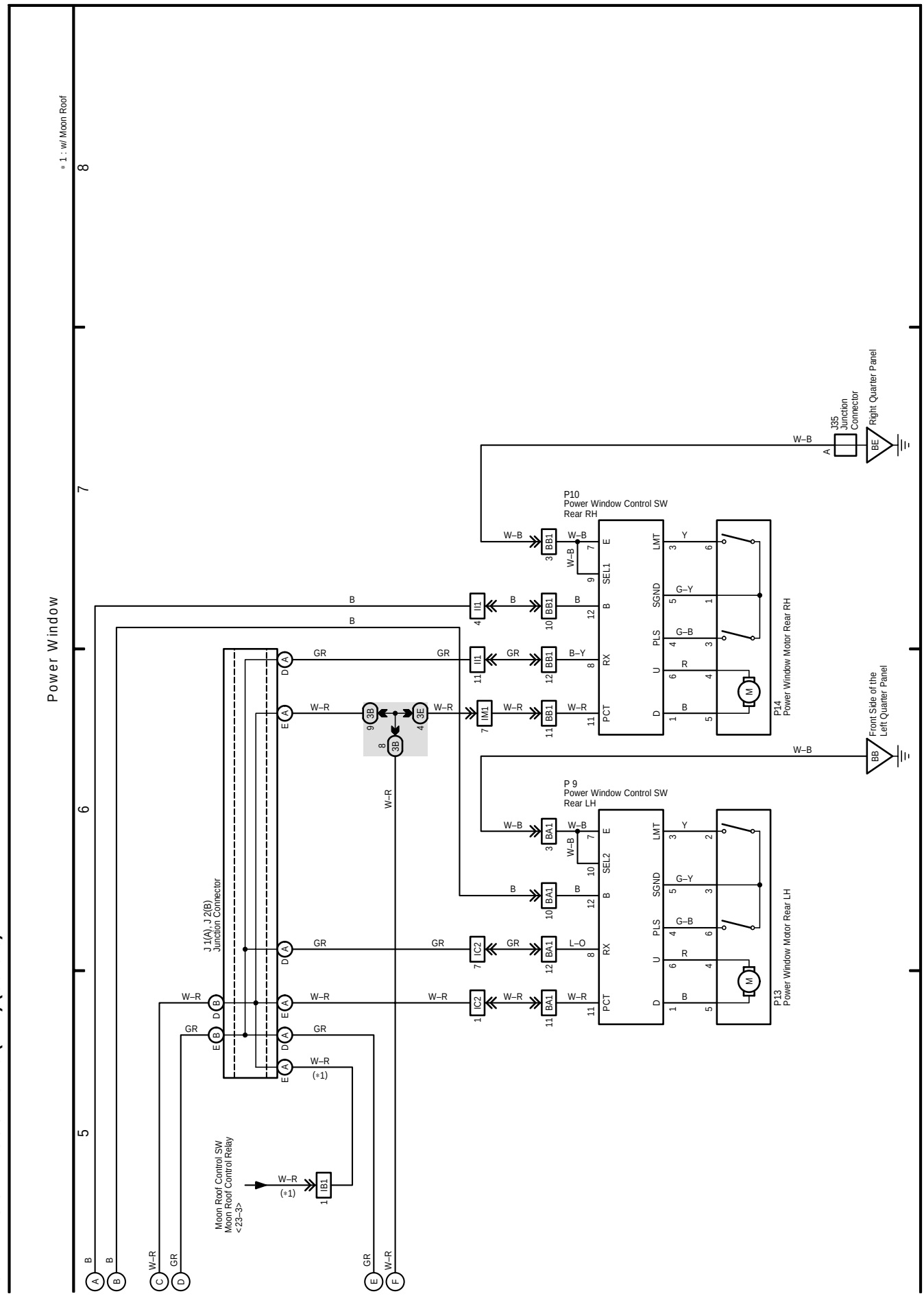
17 AVENSIS VERSO / PICNIC (LHD) (Cont' d)

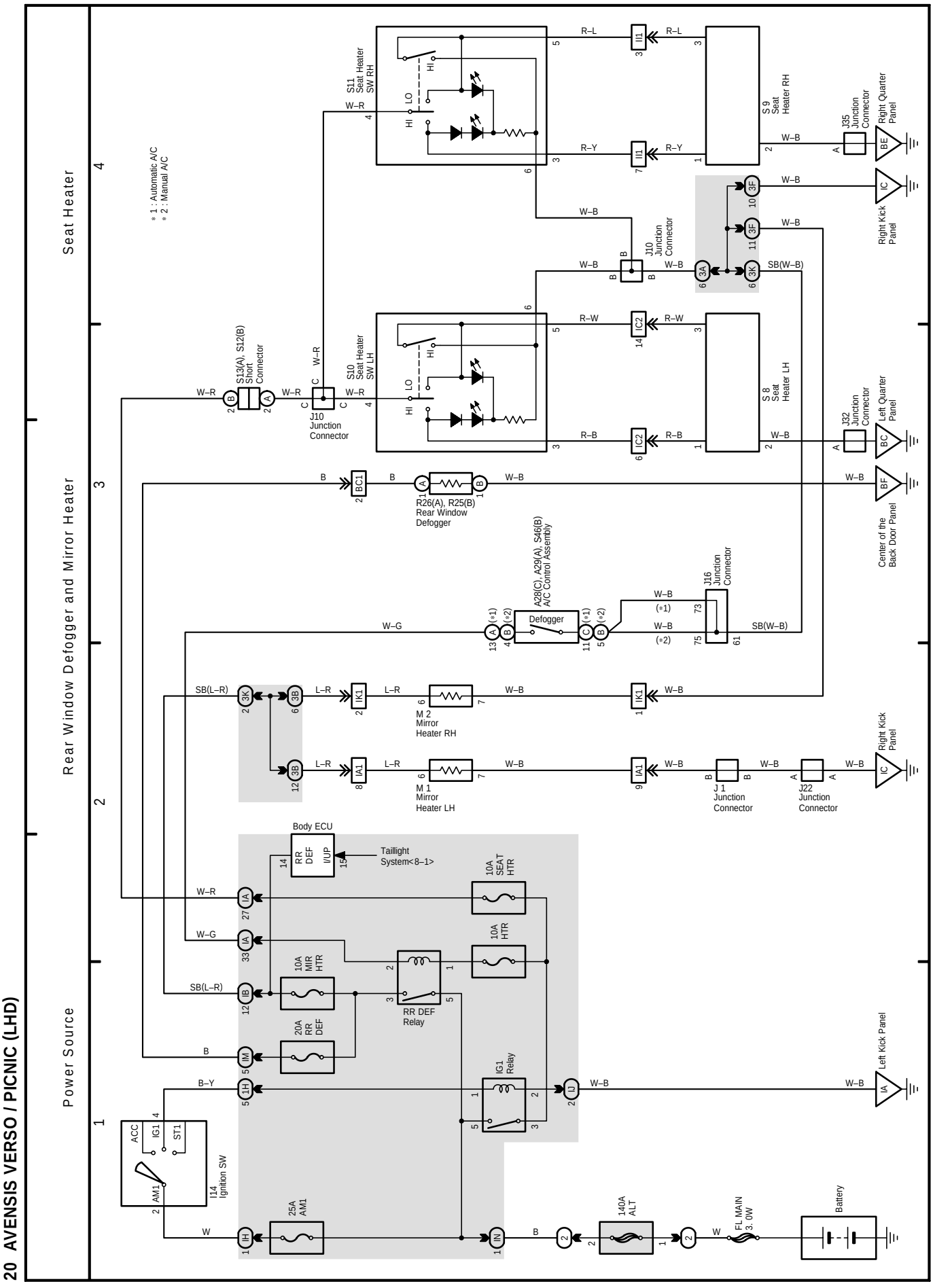


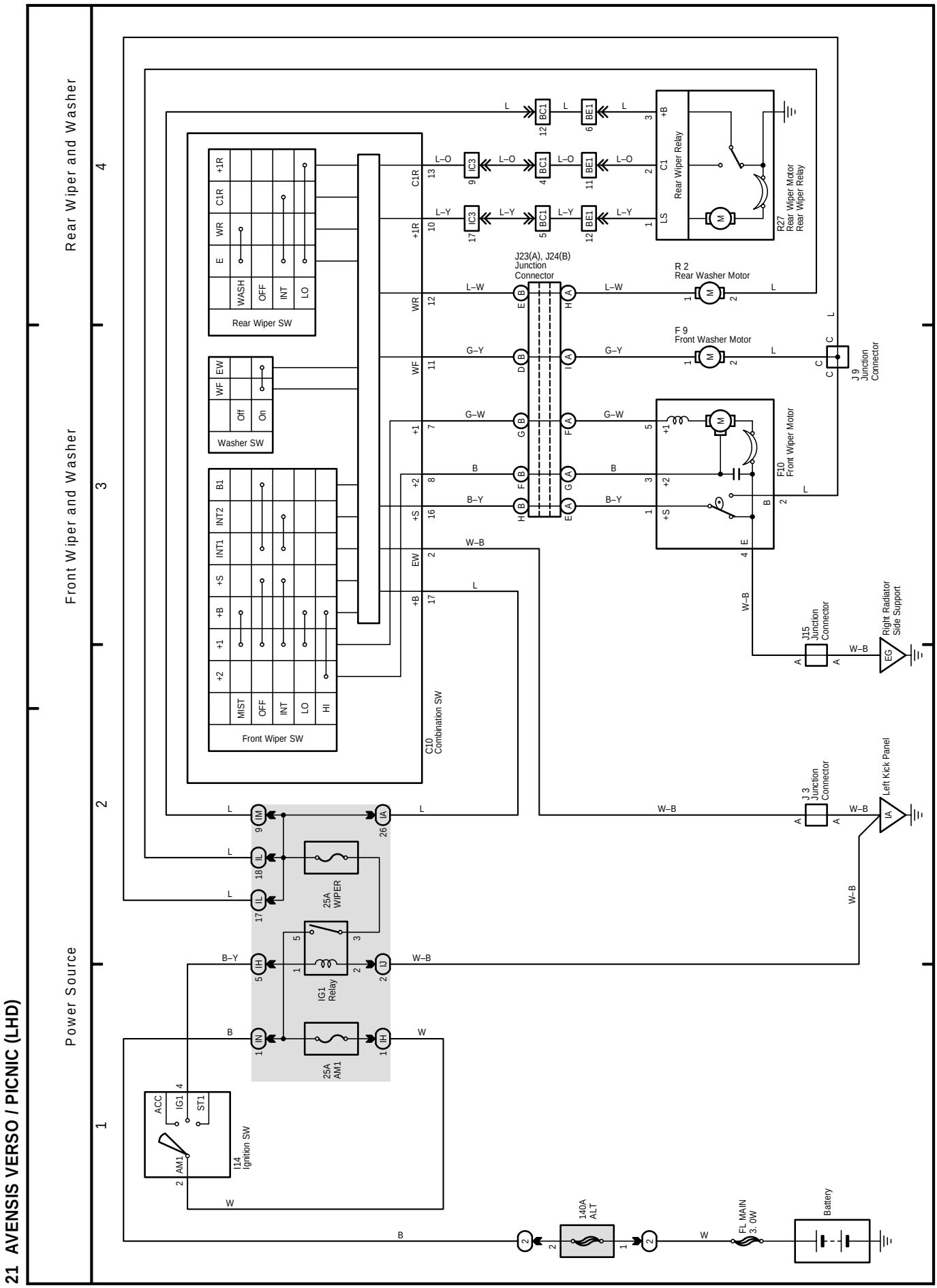

18 AVENSIS VERSO / PICNIC (LHD)
Power Source
TVSS
* 1 : Dealer Option
Door Lock Control SW <17–2>
Door Courtesy SW <11–7>
Unlock Warning SW <17–1>
Turn Signal Lights <10–3>
R 3 Radar Sensor
J 4 Junction Connector
J22 Junction Connector
Right Kick Panel
J16 Junction Connector
E 5 Engine Hood Courtesy SW
J 8 Junction Connector
Left Radiator Side Support
Wireless Door Lock Control System<17–1><17–2>
Door Lock Control System<17–2><17–3>
T10 TVSS ECU
Body ECU <11–3>
B10(A) Body ECU
T11 Theft Deterrent Siren
Front Side of the Right Quarter Panel
Left Kick Panel
7.5A GAUGE
7.5A ECU–IG
IG1 Relay
25A DOOR NO. 2
25A AM1
I14 Ignition SW
ACC
IG1
ST1
AM1
7.5A ECU–B
30A DCC
140A ALT
FL MAIN 3.0W
Battery

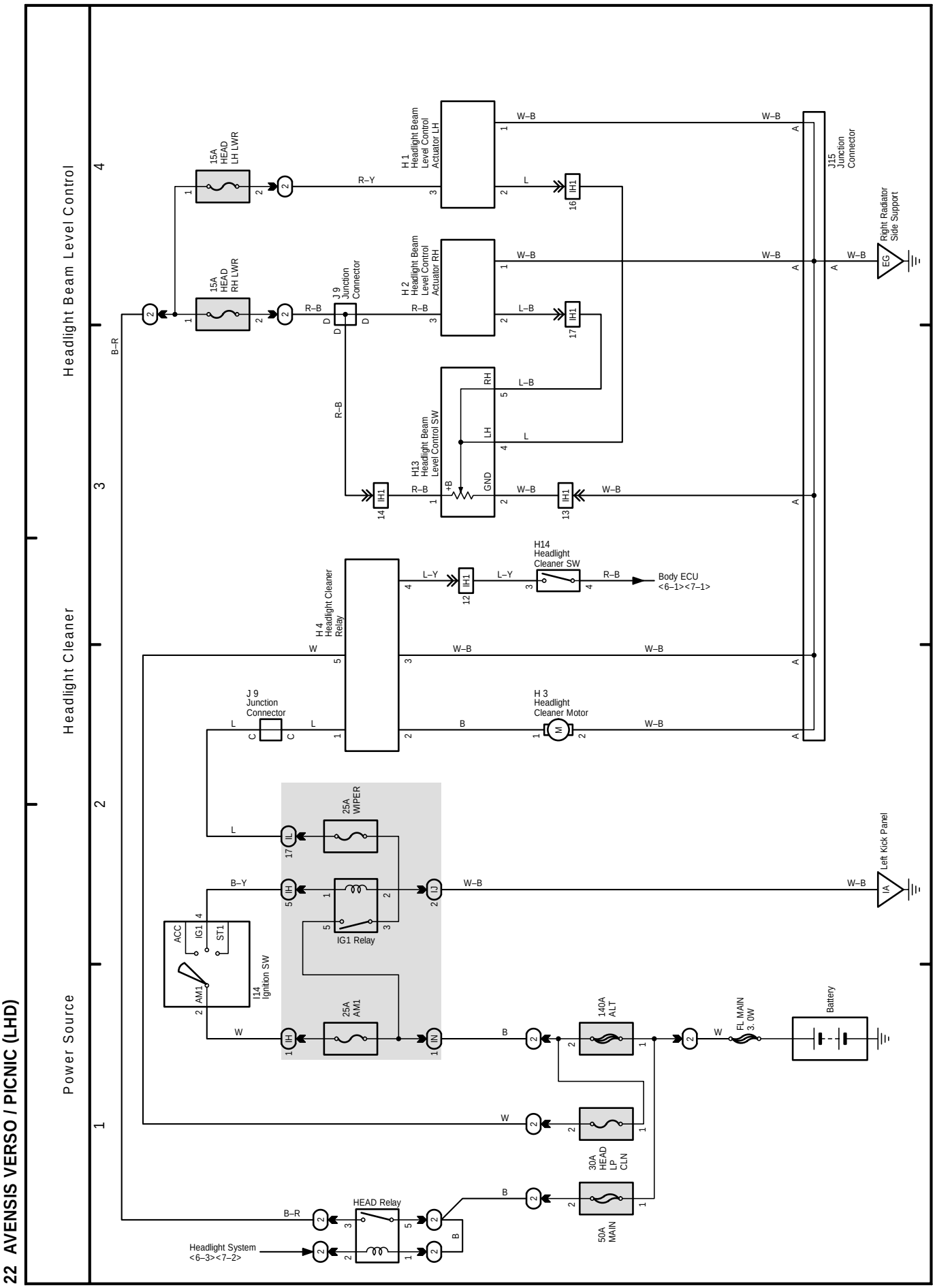

(Cont. next page)
19 AVENSIS VERSO / PICNIC (LHD)
Power Source
Power Window
D19
Door Lock Control SW Front RH
Power Window SW Front RH
P12
Power Window Motor
Front RH
P11
Power Window Motor
Front LH
D20
Power Window Master SW
Door Courtesy SW
<11–7>
J 1(A), J 2(B)
Junction
Connector
J22
Junction
Connector
J16
Junction
Connector
Right Kick Panel
Left Kick Panel
I14
Ignition SW
ACC
IG1
ST1
AM1
30A PWR
30A FR P/W
7. 5A GAUGE
IG1 Relay
25A AM1
140A ALT
FL MAIN
3. 0W
Battery

19 AVENSIS VERSO / PICNIC (LHD) (Cont' d)

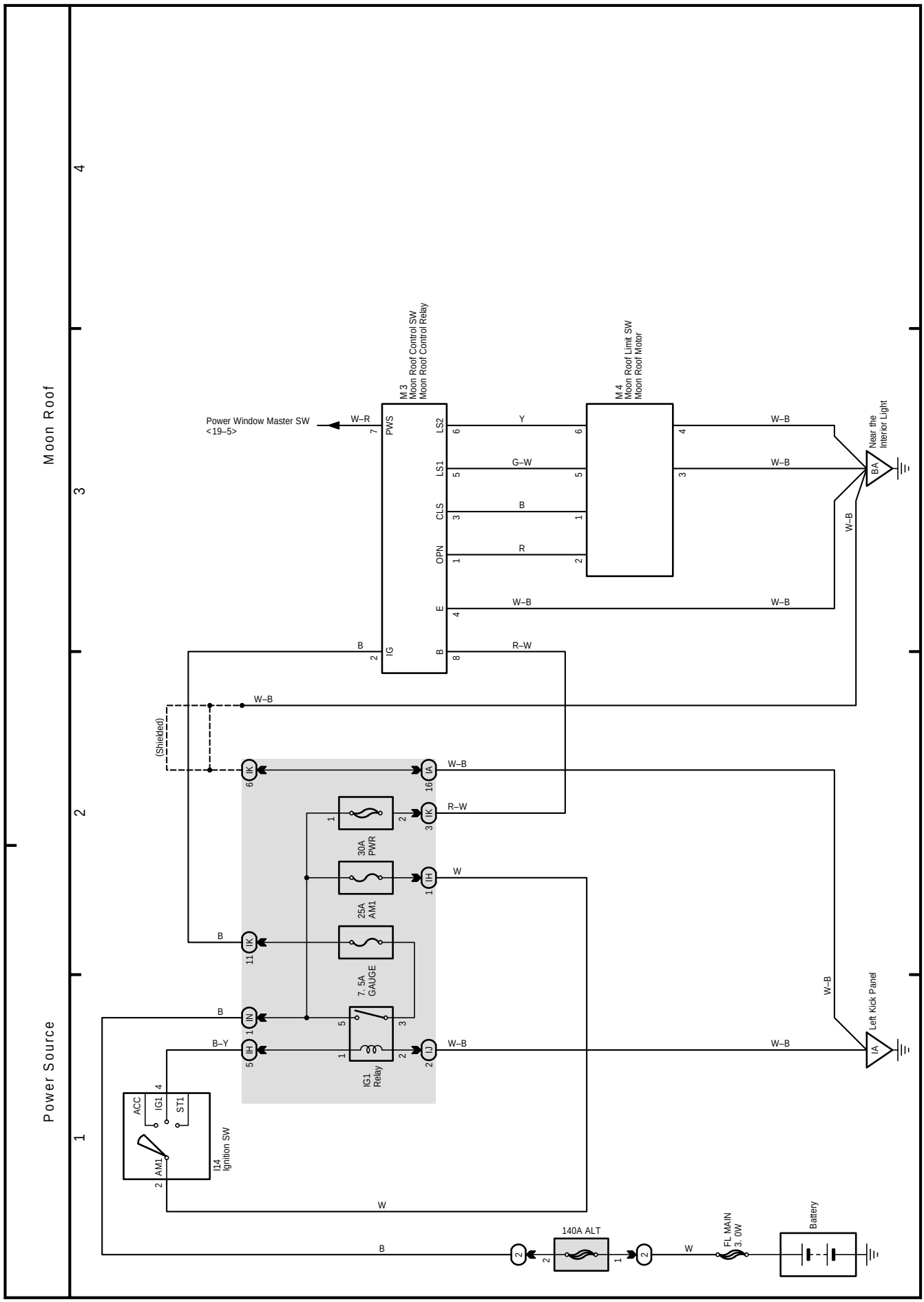


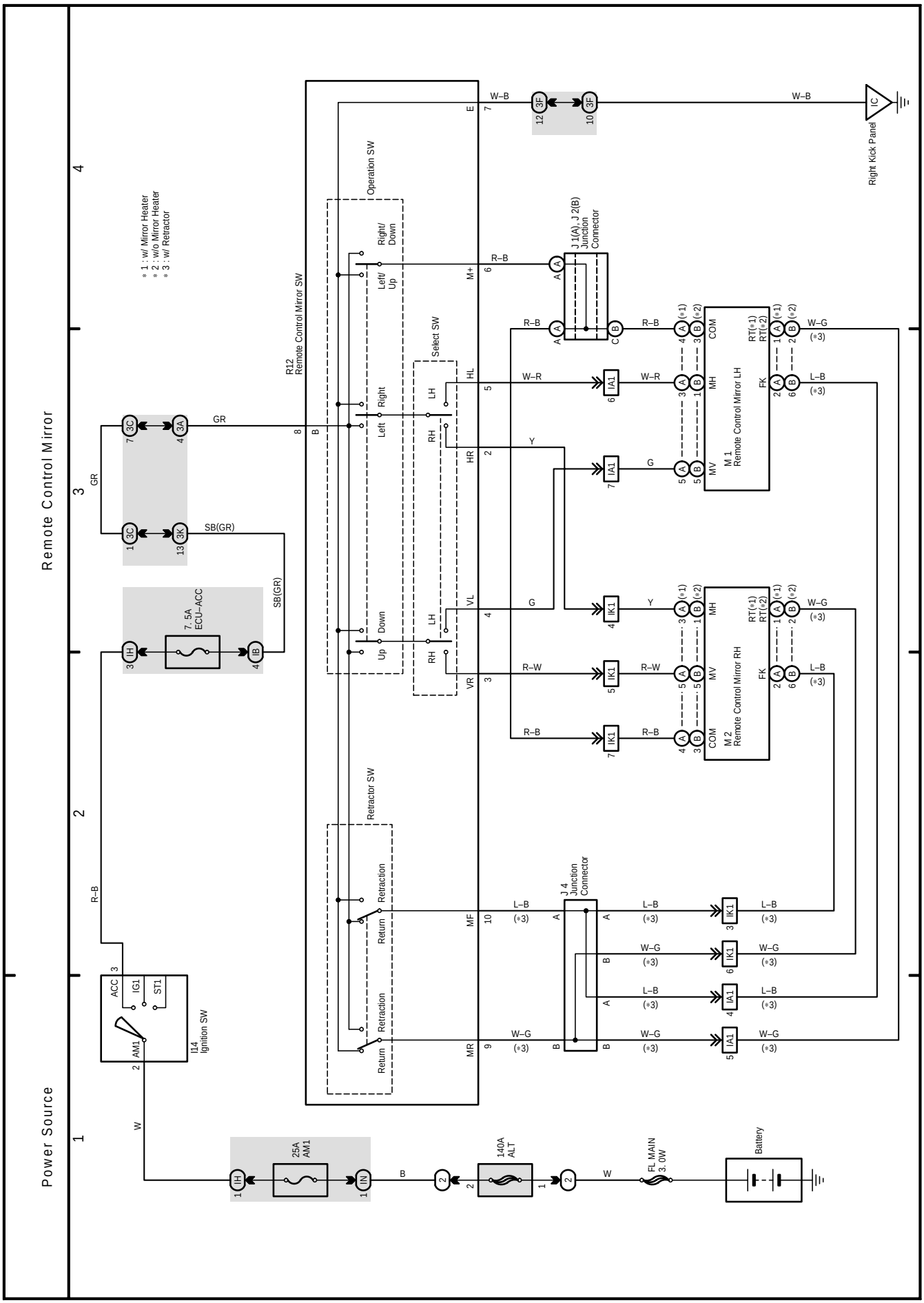

20 AVENSIS VERSO / PICNIC (LHD)
Power Source
Rear Window Defogger and Mirror Heater
Seat Heater
* 1 : Automatic A/C
* 2 : Manual A/C
S11 Seat Heater SW RH
S10 Seat Heater SW LH
S13(A), S12(B) Short Connector
J10 Junction Connector
S 9 Seat Heater RH
S 8 Seat Heater LH
J35 Junction Connector
Right Quarter Panel
J32 Junction Connector
Left Quarter Panel
Right Kick Panel
Center of the Back Door Panel
R26(A), R25(B) Rear Window Defogger
A28(C), A29(A), S46(B) A/C Control Assembly
Defogger
J16 Junction Connector
M 2 Mirror Heater RH
M 1 Mirror Heater LH
J 1 Junction Connector
J22 Junction Connector
Body ECU
RR DEF
I/UP
Taillight System<8–1>
10A SEAT HTR
10A HTR
10A MIR HTR
20A RR DEF
RR DEF Relay
IG1 Relay
Left Kick Panel
I14 Ignition SW
ACC
IG1
ST1
AM1
25A AM1
140A ALT
FL MAIN 3. 0W
Battery

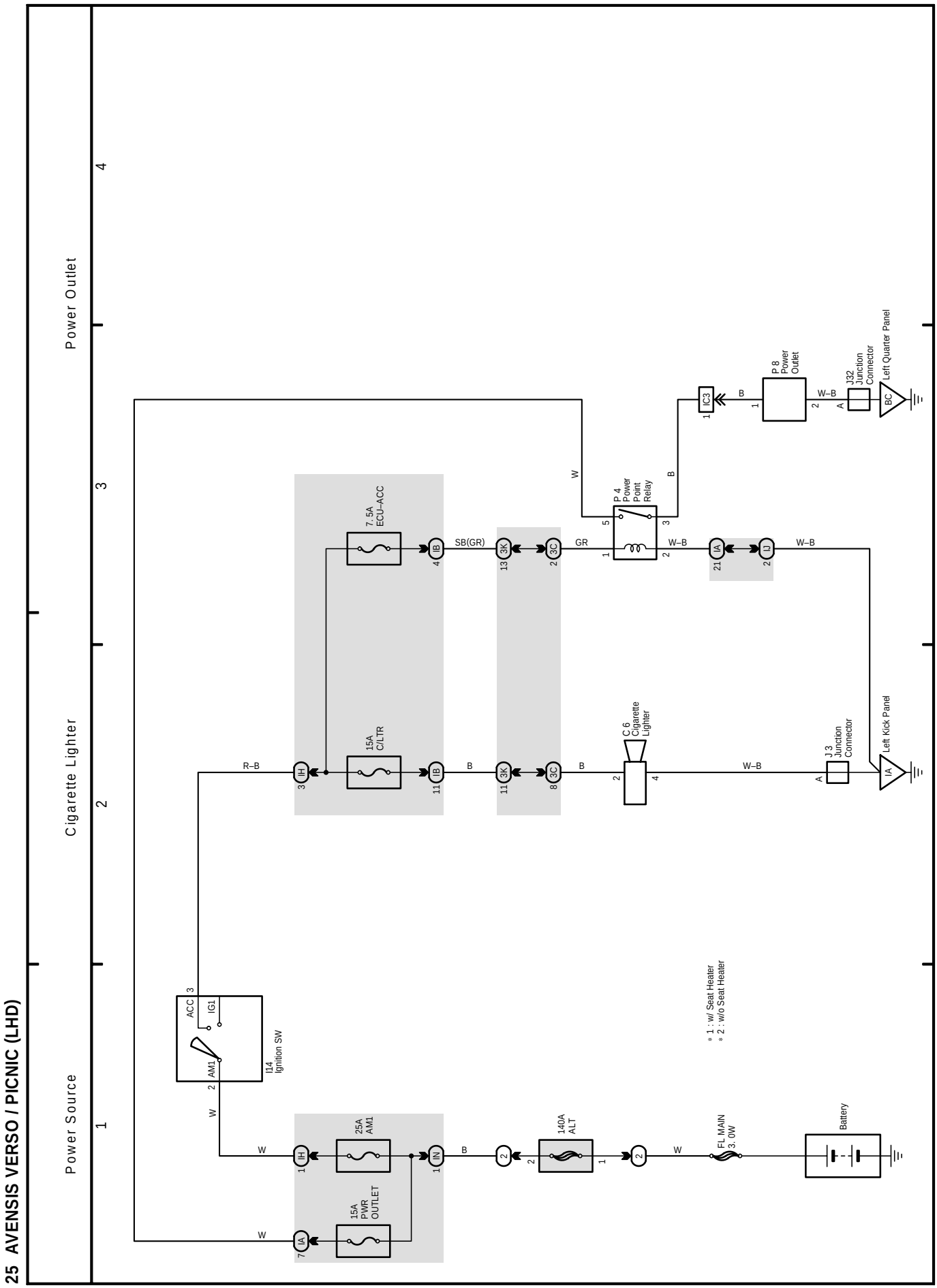

21 AVENSIS VERSO / PICNIC (LHD)
Power Source
Front Wiper and Washer
Rear Wiper and Washer
1
2
3
4
Rear Wiper SW
Washer SW
Front Wiper SW
C10 Combination SW
I14 Ignition SW
ACC
IG1
ST1
AM1
IG1 Relay
25A WIPER
25A AM1
140A ALT
FL MAIN 3. 0W
Battery
J23(A), J24(B) Junction Connector
R 2 Rear Washer Motor
F 9 Front Washer Motor
F10 Front Wiper Motor
R27 Rear Wiper Motor Rear Wiper Relay
Rear Wiper Relay
J 9 Junction Connector
J15 Junction Connector
J 3 Junction Connector
Right Radiator Side Support
Left Kick Panel
EG
IA

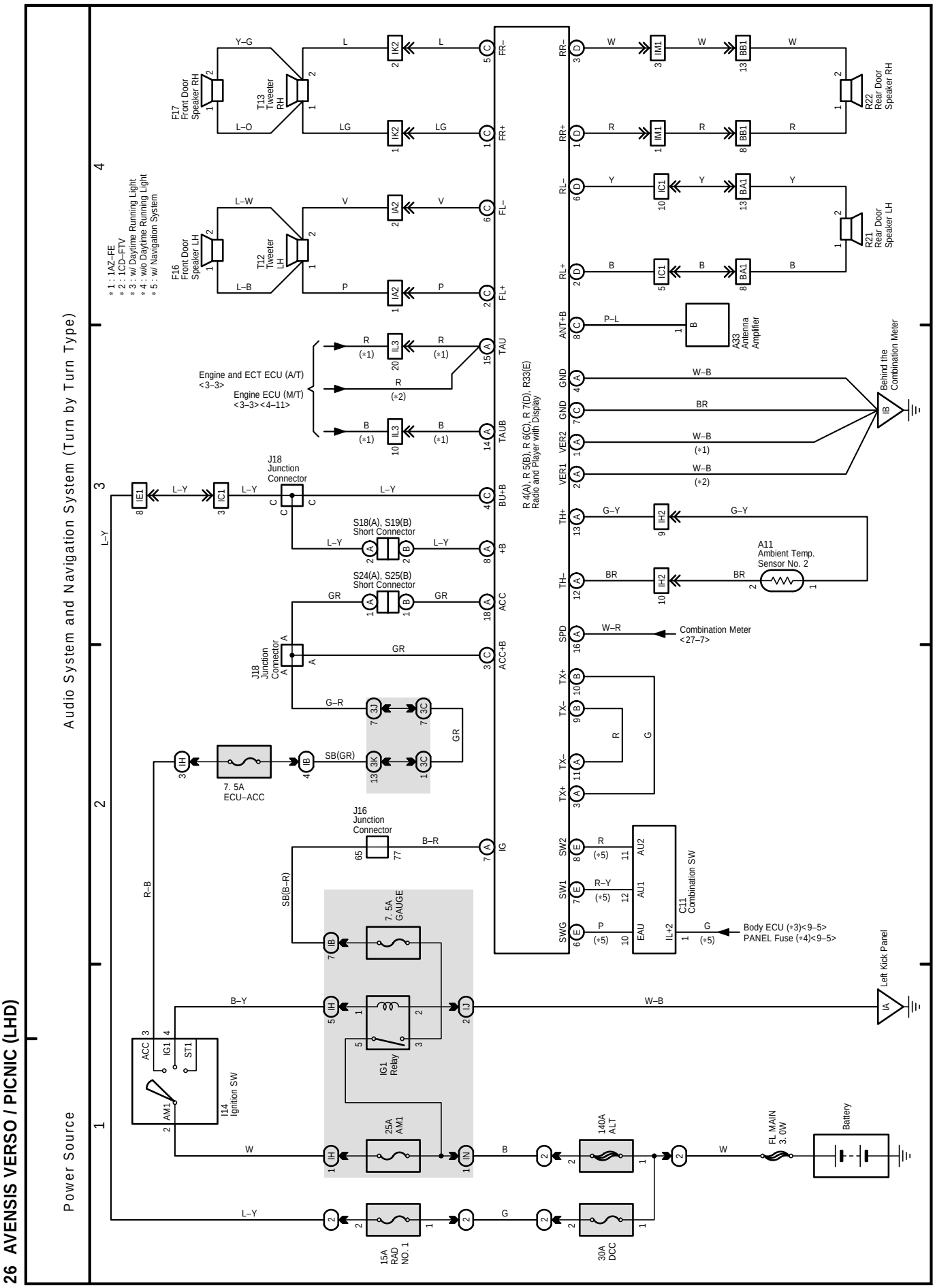

22 AVENSIS VERSO / PICNIC (LHD)
Power Source
Headlight Cleaner
Headlight Beam Level Control
15A HEAD LH LWR
15A HEAD RH LWR
H 1 Headlight Beam Level Control Actuator LH
H 2 Headlight Beam Level Control Actuator RH
H13 Headlight Beam Level Control SW
J 9 Junction Connector
J15 Junction Connector
Right Radiator Side Support
H14 Headlight Cleaner SW
Body ECU <6–1><7–1>
H 4 Headlight Cleaner Relay
H 3 Headlight Cleaner Motor
25A WIPER
25A AM1
IG1 Relay
I14 Ignition SW
ACC
IG1
ST1
AM1
140A ALT
FL MAIN 3. 0W
Battery
Left Kick Panel
30A HEAD LP CLN
50A MAIN
HEAD Relay
Headlight System <6–3><7–2>

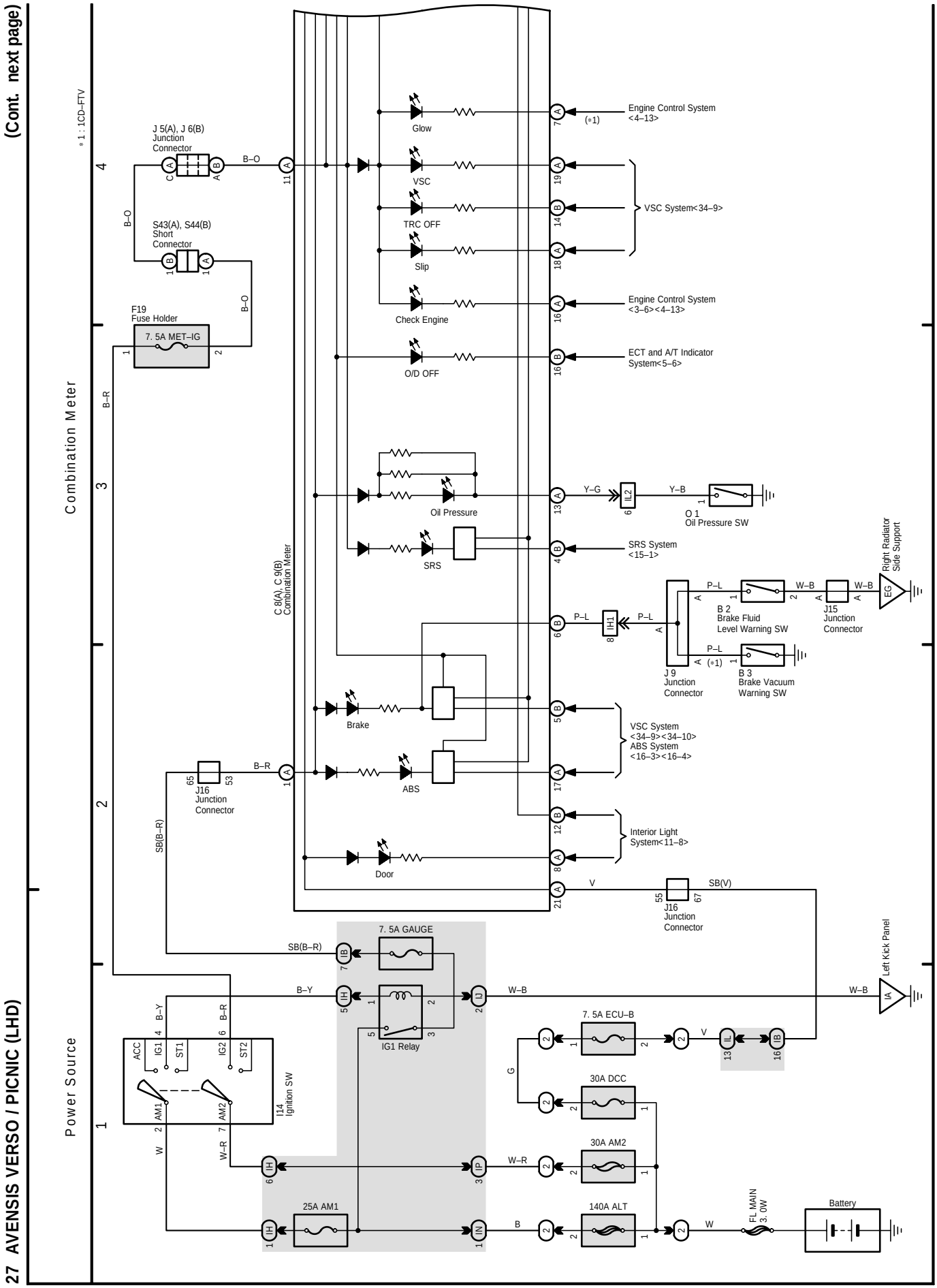
23 AVENSIS VERSO / PICNIC (LHD)

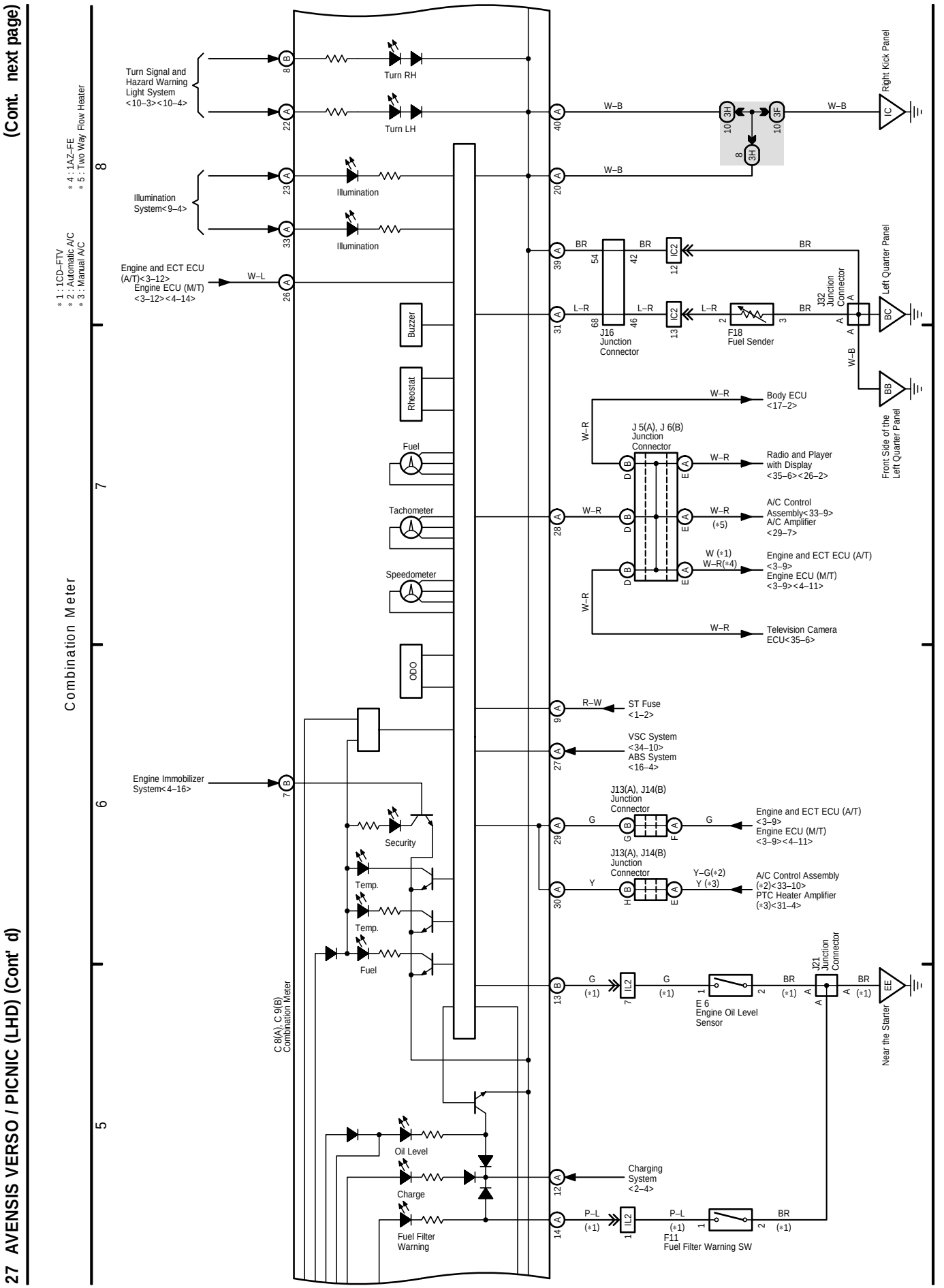


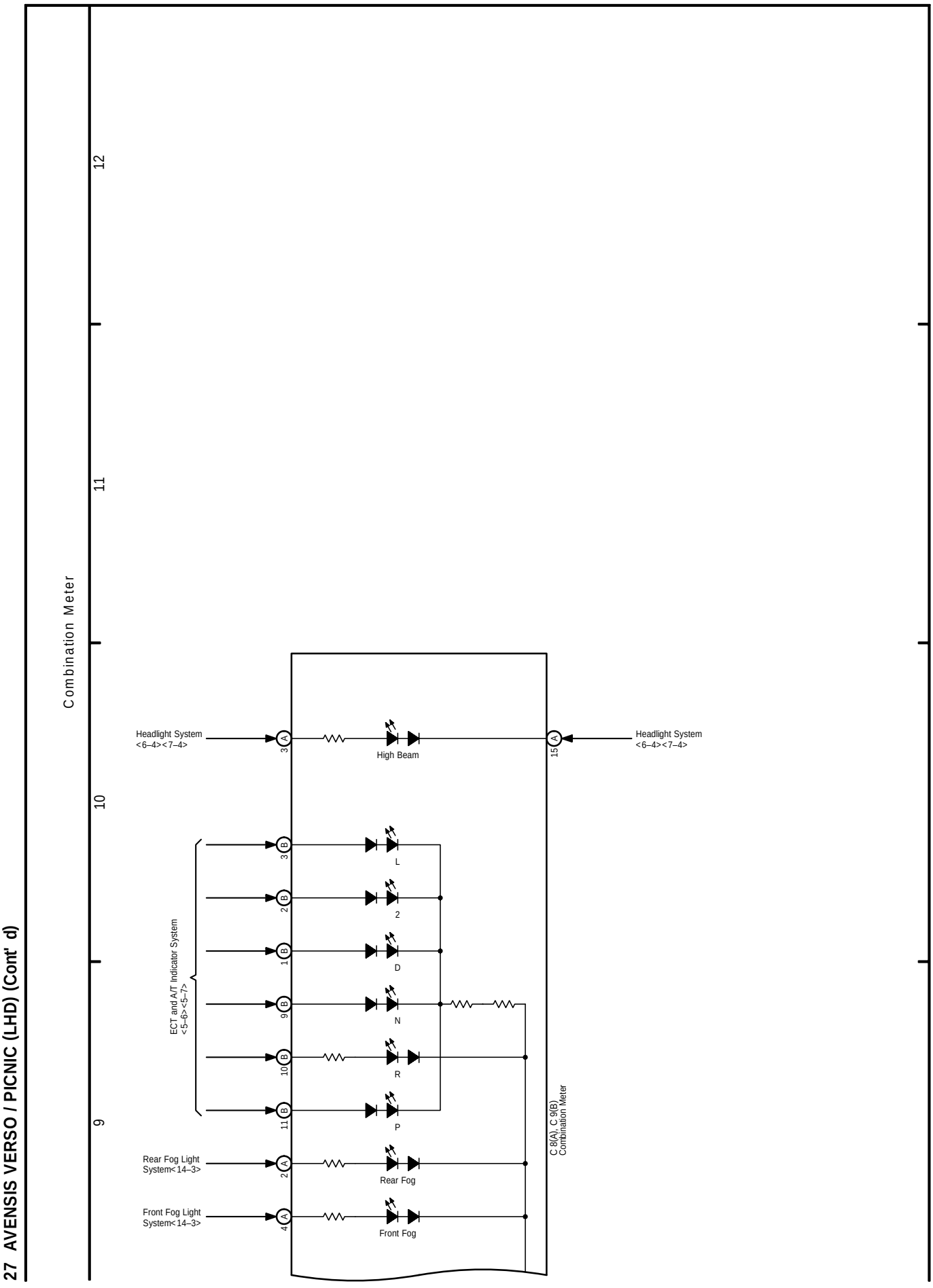

24 AVENSIS VERSO / PICNIC (LHD)
Power Source
Remote Control Mirror
1
2
3
4
* 1 : w/ Mirror Heater
* 2 : w/o Mirror Heater
* 3 : w/ Retractor
Battery
140A ALT
25A AM1
7.5A ECU–ACC
FL MAIN 3.0W
I14 Ignition SW
ACC
IG1
ST1
AM1
R12 Remote Control Mirror SW
Operation SW
Right/ Down
Left/ Up
Right
Left
Down
Up
Select SW
LH
RH
Retractor SW
Retraction
Return
J 1(A), J 2(B) Junction Connector
J 4 Junction Connector
M 1 Remote Control Mirror LH
M 2 Remote Control Mirror RH
COM
MH
MV
FK
RT(*1)
RT(*2)
Right Kick Panel
IC
W–B
R–B
W–R
Y
G
R–W
L–B
W–G
GR
SB(GR)
W
B

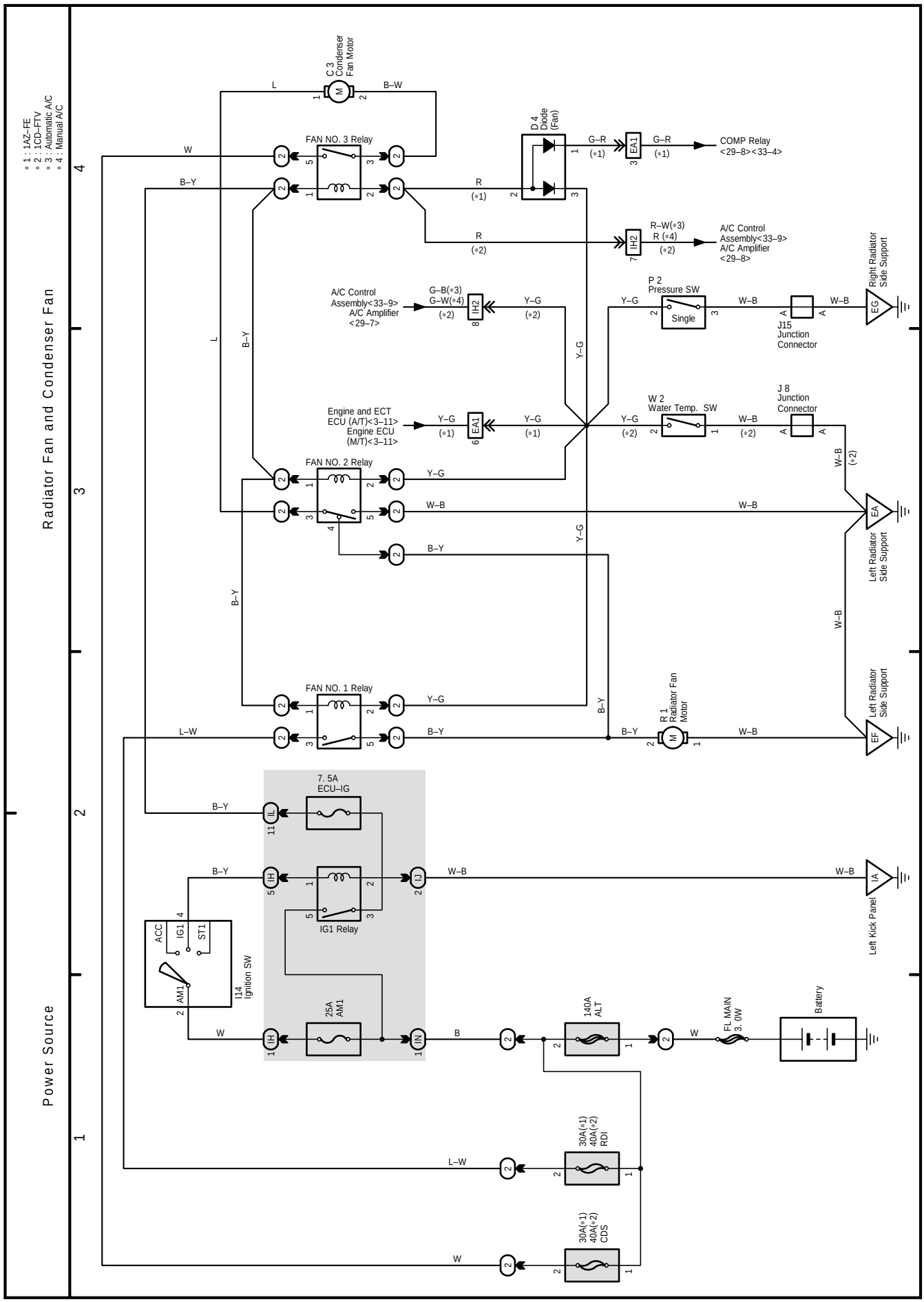

25 AVENSIS VERSO / PICNIC (LHD)
Power Source
Cigarette Lighter
Power Outlet
1
2
3
4
ACC
IG1
AM1
I14 Ignition SW
15A PWR OUTLET
25A AM1
140A ALT
FL MAIN 3. 0W
Battery
15A C/LTR
7. 5A ECU–ACC
P 4 Power Point Relay
C 6 Cigarette Lighter
J 3 Junction Connector
Left Kick Panel
P 8 Power Outlet
J32 Junction Connector
Left Quarter Panel
* 1 : w/ Seat Heater
* 2 : w/o Seat Heater

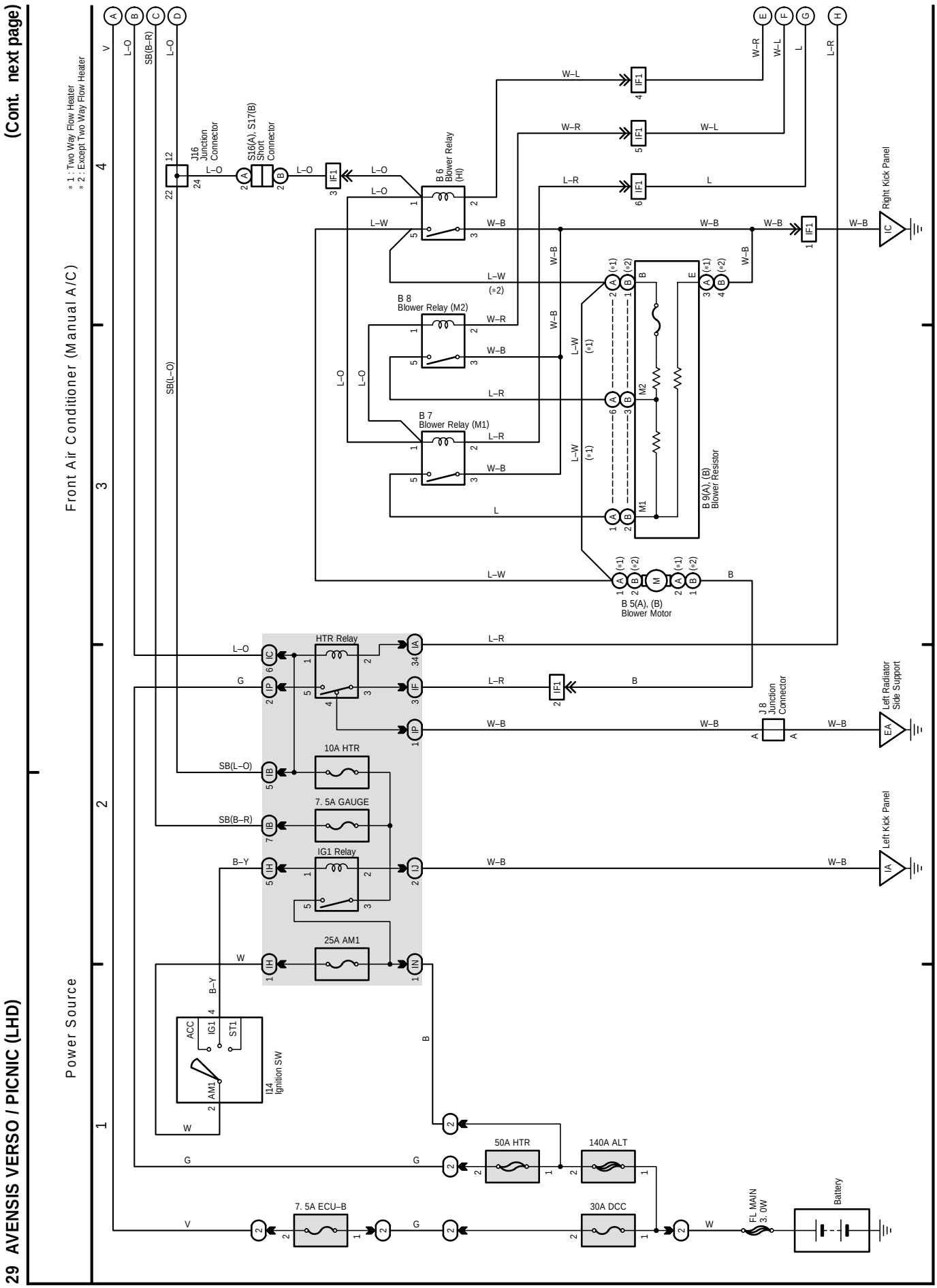

26 AVENSIS VERSO / PICNIC (LHD)
Power Source
Audio System and Navigation System (Turn by Turn Type)
* 1 : 1AZ–FE
* 2 : 1CD–FTV
* 3 : w/ Daytime Running Light
* 4 : w/o Daytime Running Light
* 5 : w/ Navigation System
F17 Front Door Speaker RH
T13 Tweeter RH
F16 Front Door Speaker LH
T12 Tweeter LH
R22 Rear Door Speaker RH
R21 Rear Door Speaker LH
Engine and ECT ECU (A/T) <3–3>
Engine ECU (M/T) <3–3><4–11>
J18 Junction Connector
S18(A), S19(B) Short Connector
S24(A), S25(B) Short Connector
J16 Junction Connector
R 4(A), R 5(B), R 6(C), R 7(D), R33(E) Radio and Player with Display
A33 Antenna Amplifier
Behind the Combination Meter
A11 Ambient Temp. Sensor No. 2
Combination Meter <27–7>
C11 Combination SW
Body ECU (*3)<9–5>
PANEL Fuse (*4)<9–5>
Left Kick Panel
7. 5A ECU–ACC
7. 5A GAUGE
I14 Ignition SW
IG1 Relay
25A AM1
140A ALT
FL MAIN 3. 0W
Battery
15A RAD NO. 1
30A DCC


(Cont. next page)
27 AVENSIS VERSO / PICNIC (LHD)
Power Source
Combination Meter
*1 : 1CD–FTV
J 5(A), J 6(B) Junction Connector
S43(A), S44(B) Short Connector
F19 Fuse Holder
7. 5A MET–IG
Glow
VSC
TRC OFF
Slip
Check Engine
O/D OFF
Engine Control System <4–13>
VSC System<34–9>
Engine Control System <3–6><4–13>
ECT and A/T Indicator System<5–6>
Oil Pressure
SRS
O 1 Oil Pressure SW
SRS System <15–1>
C 8(A), C 9(B) Combination Meter
Brake
ABS
Door
VSC System <34–9><34–10> ABS System <16–3><16–4>
Interior Light System<11–8>
J16 Junction Connector
B 2 Brake Fluid Level Warning SW
J15 Junction Connector
J 9 Junction Connector
B 3 Brake Vacuum Warning SW
Right Radiator Side Support
Left Kick Panel
7. 5A GAUGE
IG1 Relay
I14 Ignition SW
7. 5A ECU–B
30A DCC
30A AM2
25A AM1
140A ALT
FL MAIN 3. 0W
Battery

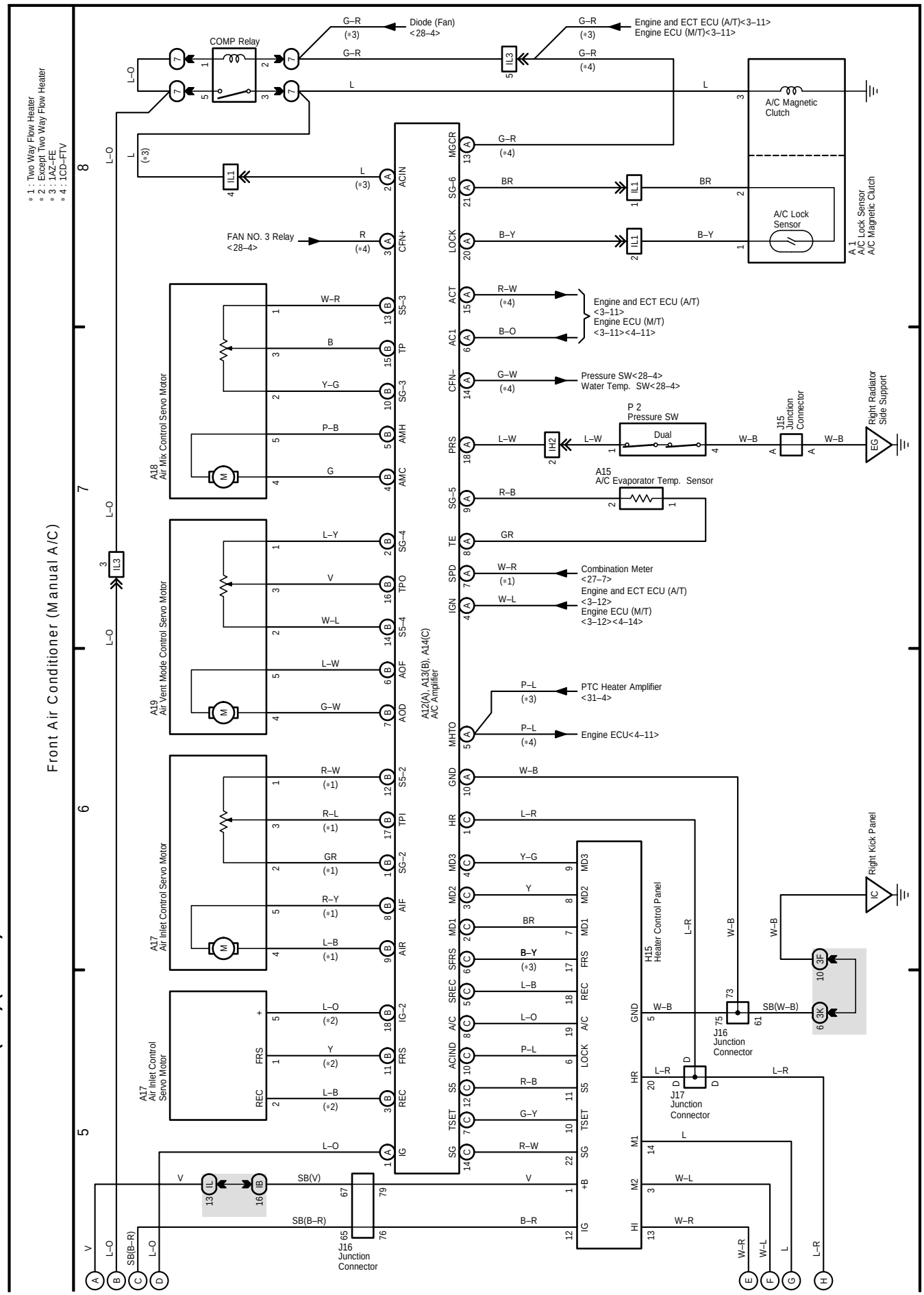

(Cont. next page)
27 AVENSIS VERSO / PICNIC (LHD) (Cont' d)
Combination Meter
Turn Signal and Hazard Warning Light System <10–3><10–4>
Turn RH
Turn LH
Illumination System<9–4>
Illumination
Illumination
Engine and ECT ECU (A/T)<3–12> Engine ECU (M/T) <3–12><4–14>
W–L
Buzzer
Rheostat
Fuel
Tachometer
Speedometer
ODO
Engine Immobilizer System<4–16>
Security
Temp.
Temp.
Fuel
C 8(A), C 9(B) Combination Meter
Oil Level
Charge
Fuel Filter Warning
W–B
Right Kick Panel
BR
IC2
J16 Junction Connector
L–R
F18 Fuel Sender
J32 Junction Connector
Left Quarter Panel
Front Side of the Left Quarter Panel
W–R
Body ECU <17–2>
J 5(A), J 6(B) Junction Connector
Radio and Player with Display <35–6><26–2>
A/C Control Assembly<33–9> A/C Amplifier <29–7>
(*5)
W (*1) W–R(*4)
Engine and ECT ECU (A/T) <3–9> Engine ECU (M/T) <3–9><4–11>
Television Camera ECU<35–6>
R–W
ST Fuse <1–2>
VSC System <34–10> ABS System <16–4>
J13(A), J14(B) Junction Connector
G
Engine and ECT ECU (A/T) <3–9> Engine ECU (M/T) <3–9><4–11>
Y
Y–G(*2) Y (*3)
A/C Control Assembly (*2)<33–10> PTC Heater Amplifier (*3)<31–4>
IL2
E 6 Engine Oil Level Sensor
J21 Junction Connector
Near the Starter
Charging System <2–4>
P–L
F11 Fuel Filter Warning SW
* 1 : 1CD–FTV
* 2 : Automatic A/C
* 3 : Manual A/C
* 4 : 1AZ–FE
* 5 : Two Way Flow Heater

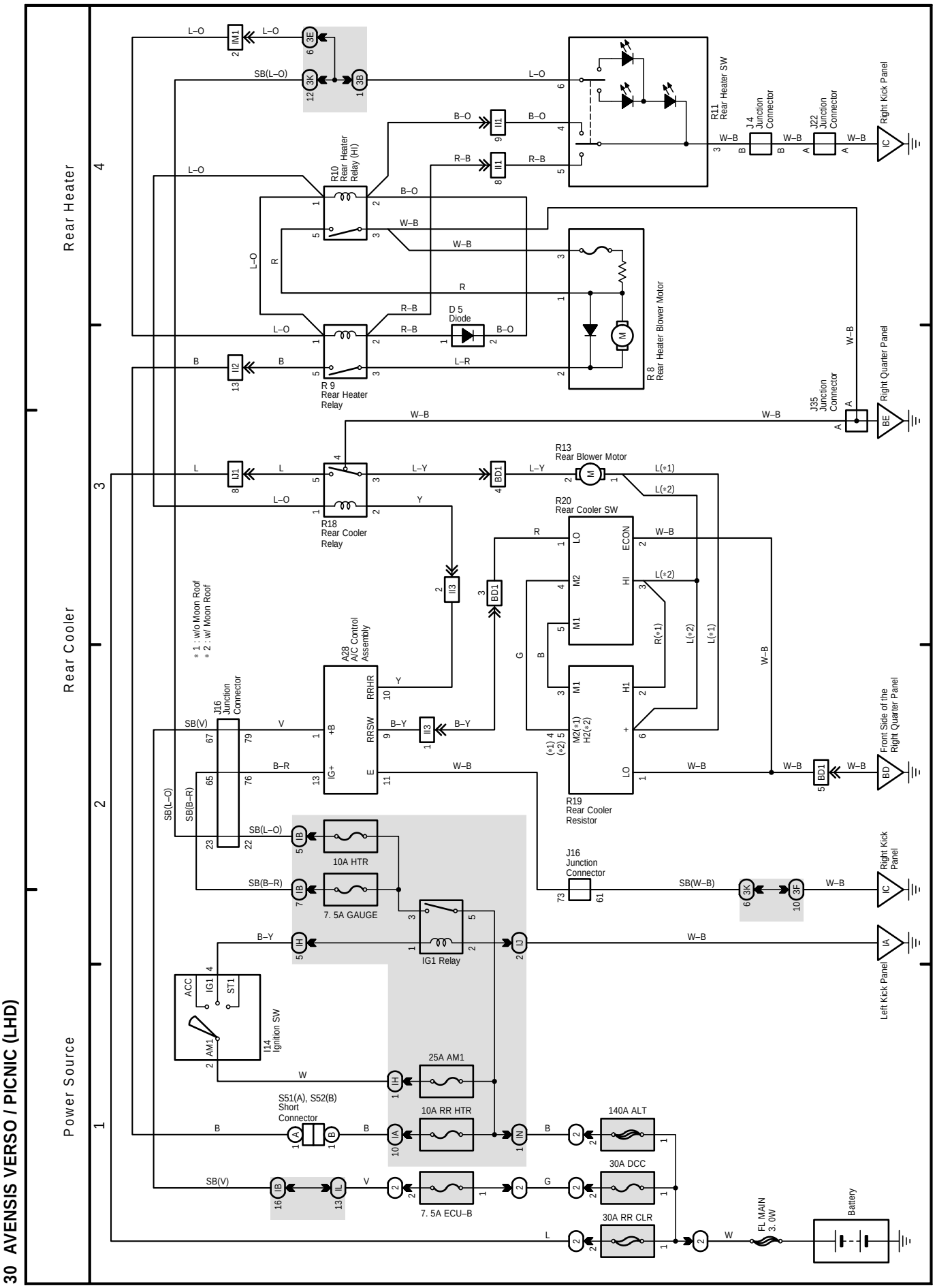

27 AVENSIS VERSO / PICNIC (LHD) (Cont' d)
12
11
10
9
Combination Meter
Headlight System
<6–4><7–4>
3 A
High Beam
15 A
Headlight System
<6–4><7–4>
ECT and A/T Indicator System
<5–6><5–7>
3 B
L
2 B
2
1 B
D
9 B
N
10 B
R
11 B
P
Rear Fog Light
System<14–3>
2 A
Rear Fog
Front Fog Light
System<14–3>
4 A
Front Fog
C 8(A), C 9(B)
Combination Meter

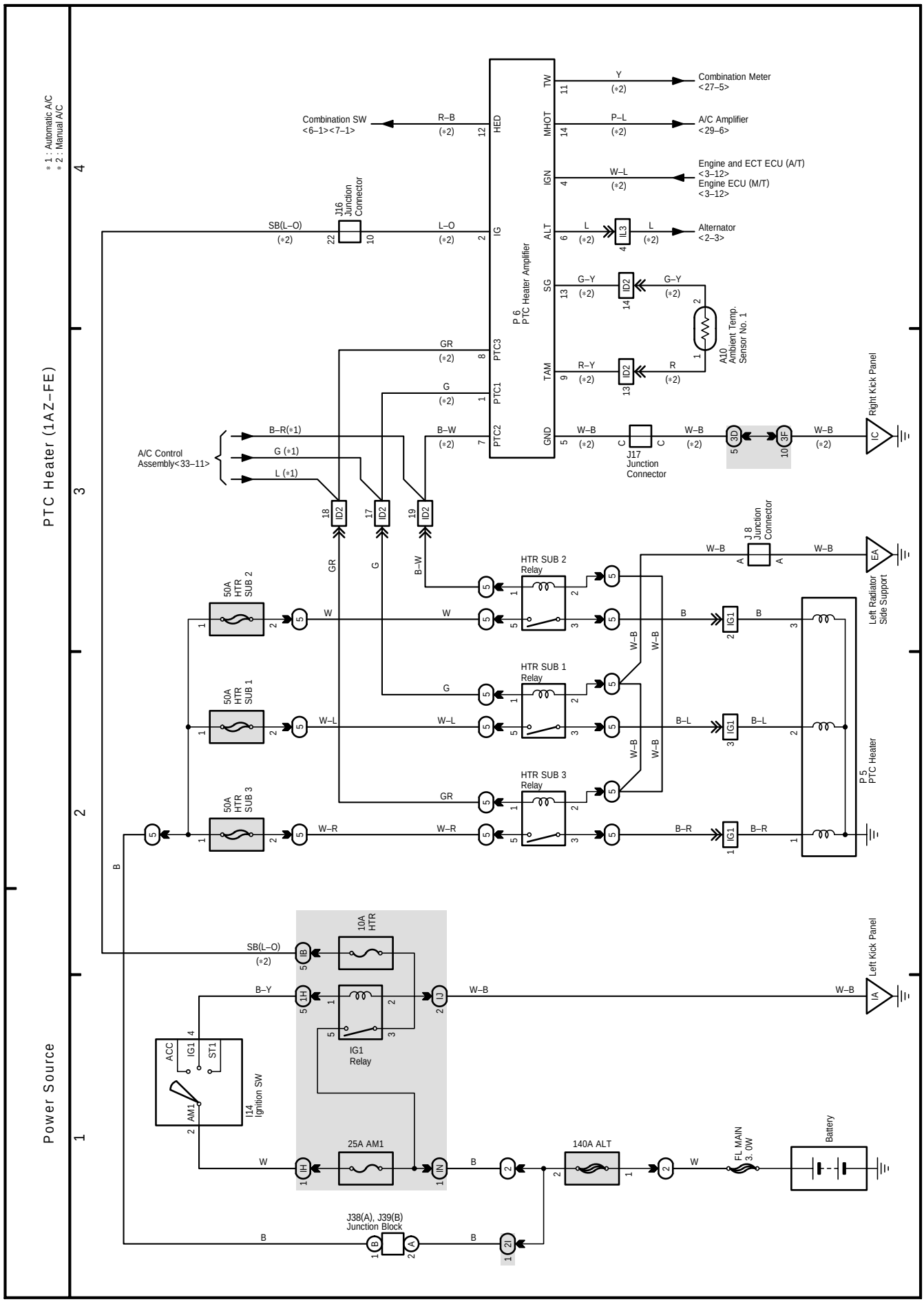

28 AVENSIS VERSO / PICNIC (LHD)
Power Source
Radiator Fan and Condenser Fan
1
2
3
4
* 1 : 1AZ–FE
* 2 : 1CD–FTV
* 3 : Automatic A/C
* 4 : Manual A/C
C 3 Condenser Fan Motor
FAN NO. 3 Relay
FAN NO. 2 Relay
FAN NO. 1 Relay
D 4 Diode (Fan)
COMP Relay <29–8><33–4>
A/C Control Assembly<33–9> A/C Amplifier <29–8>
A/C Control Assembly<33–9> A/C Amplifier <29–7>
Engine and ECT ECU (A/T)<3–11> Engine ECU (M/T)<3–11>
P 2 Pressure SW
Single
J15 Junction Connector
W 2 Water Temp. SW
J 8 Junction Connector
Right Radiator Side Support
Left Radiator Side Support
Left Radiator Side Support
Left Kick Panel
R 1 Radiator Fan Motor
7. 5A ECU–IG
IG1 Relay
I14 Ignition SW
ACC
IG1
ST1
AM1
25A AM1
140A ALT
FL MAIN 3. 0W
Battery
30A(*1) 40A(*2) RDI
30A(*1) 40A(*2) CDS

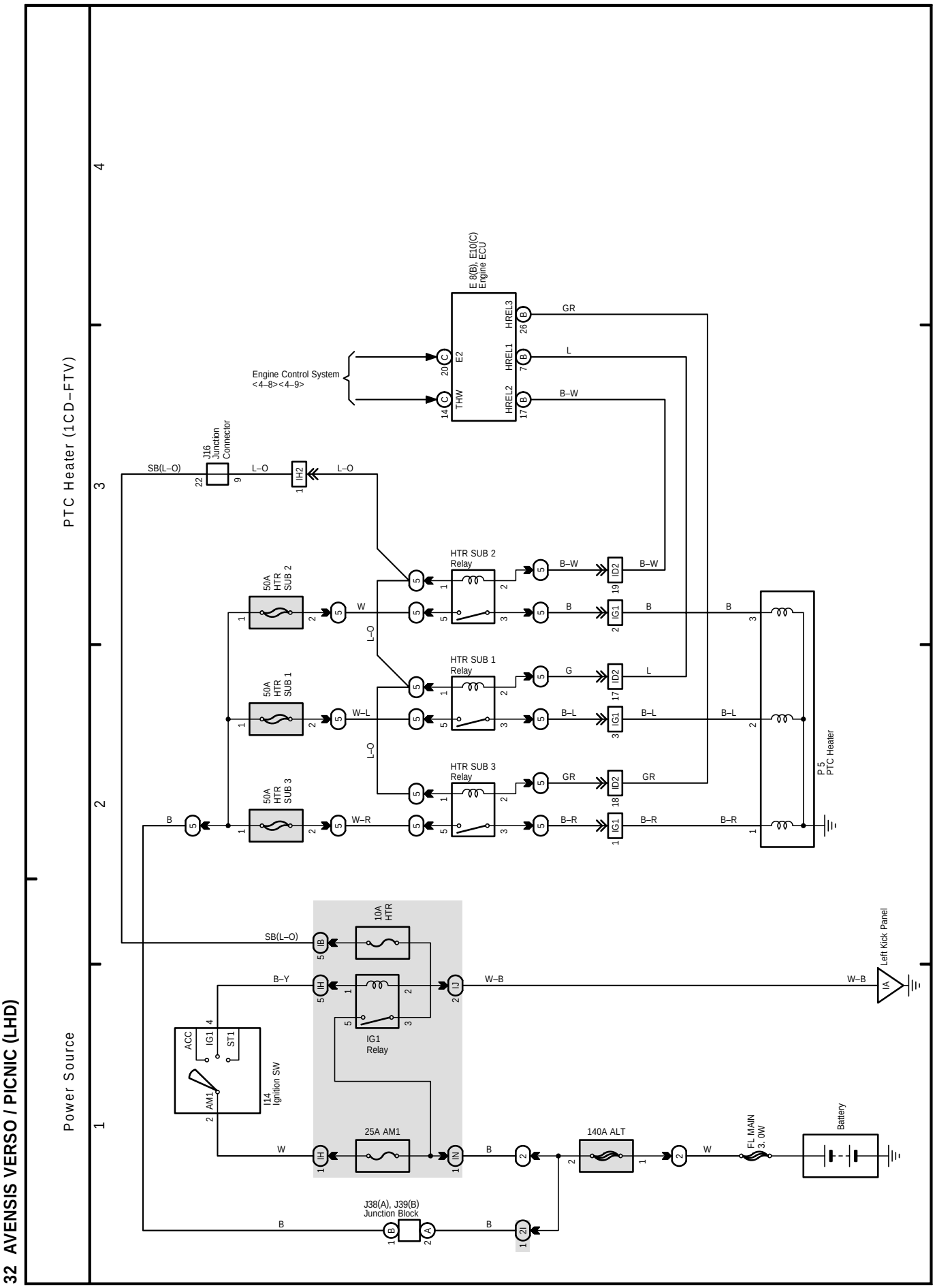

(Cont. next page)
29 AVENSIS VERSO / PICNIC (LHD)
Power Source
Front Air Conditioner (Manual A/C)
* 1 : Two Way Flow Heater
* 2 : Except Two Way Flow Heater
J16 Junction Connector
S16(A), S17(B) Short Connector
B 6 Blower Relay (HI)
B 8 Blower Relay (M2)
B 7 Blower Relay (M1)
B 9(A), (B) Blower Resistor
B 5(A), (B) Blower Motor
HTR Relay
10A HTR
7. 5A GAUGE
IG1 Relay
25A AM1
I14 Ignition SW
50A HTR
140A ALT
7. 5A ECU–B
30A DCC
FL MAIN 3. 0W
Battery
J8 Junction Connector
Right Kick Panel
Left Radiator Side Support
Left Kick Panel

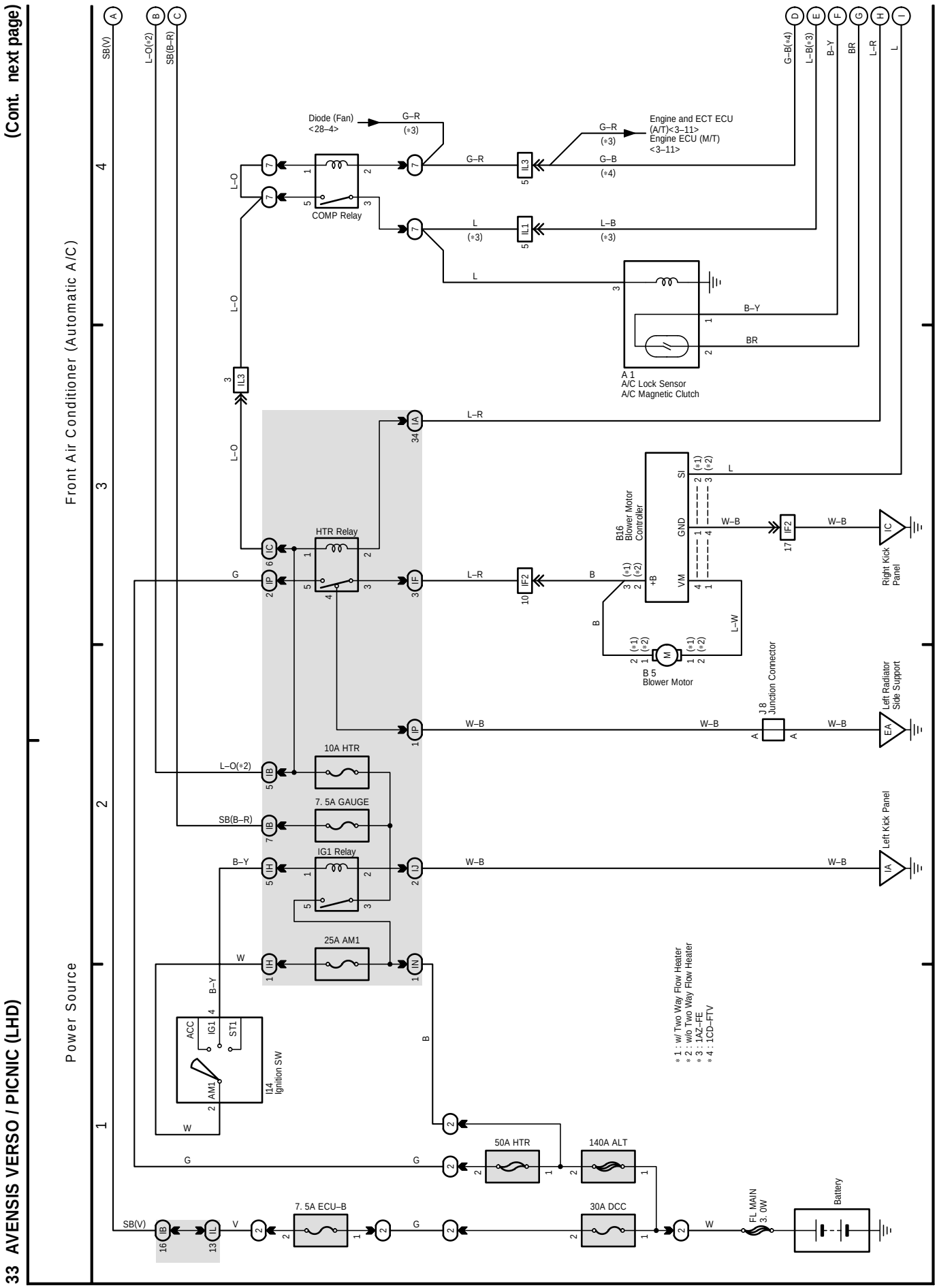
29 AVENSIS VERSO / PICNIC (LHD) (Cont' d)




30 AVENSIS VERSO / PICNIC (LHD)
Rear Heater
Rear Cooler
Power Source
R10 Rear Heater Relay (HI)
R 9 Rear Heater Relay
R11 Rear Heater SW
R 8 Rear Heater Blower Motor
D 5 Diode
R18 Rear Cooler Relay
R13 Rear Blower Motor
R20 Rear Cooler SW
R19 Rear Cooler Resistor
A28 A/C Control Assembly
J16 Junction Connector
J 4 Junction Connector
J22 Junction Connector
J35 Junction Connector
Right Kick Panel
Right Quarter Panel
Front Side of the Right Quarter Panel
Left Kick Panel
10A HTR
7. 5A GAUGE
IG1 Relay
I14 Ignition SW
25A AM1
10A RR HTR
S51(A), S52(B) Short Connector
140A ALT
30A DCC
7. 5A ECU–B
30A RR CLR
FL MAIN 3. 0W
Battery
* 1 : w/o Moon Roof
* 2 : w/ Moon Roof


31 AVENSIS VERSO / PICNIC (LHD)
PTC Heater (1AZ–FE)
Power Source
* 1 : Automatic A/C
* 2 : Manual A/C
Combination SW <6–1><7–1>
R–B (*2)
HED 12
Combination Meter <27–5>
Y (*2) TW 11
A/C Amplifier <29–6>
P–L (*2) MHOT 14
Engine and ECT ECU (A/T) <3–12>
Engine ECU (M/T) <3–12>
W–L (*2) IGN 4
Alternator <2–3>
L (*2) ALT 6
IL3
J16 Junction Connector
SB(L–O) (*2) 22
L–O (*2) 10 IG 2
P 6 PTC Heater Amplifier
G–Y (*2) SG 13
ID2 14
A10 Ambient Temp. Sensor No. 1
R–Y (*2) TAM 9
ID2 13
R (*2)
GR (*2) PTC3 8
G (*2) PTC1 1
B–W (*2) PTC2 7
W–B (*2) GND 5
J17 Junction Connector
3D
3F
IC
Right Kick Panel
A/C Control Assembly<33–11>
B–R(*1)
G (*1)
L (*1)
18 ID2
17 ID2
19 ID2
J 8 Junction Connector
EA
Left Radiator Side Support
50A HTR SUB 2
50A HTR SUB 1
50A HTR SUB 3
HTR SUB 2 Relay
HTR SUB 1 Relay
HTR SUB 3 Relay
IG1
P 5 PTC Heater
10A HTR
IB
1H
1J
IG1 Relay
I14 Ignition SW
ACC
IG1
ST1
AM1
25A AM1
1N
140A ALT
FL MAIN 3. 0W
Battery
IA
Left Kick Panel
J38(A), J39(B) Junction Block
1B
2A
2I


32 AVENSIS VERSO / PICNIC (LHD)
Power Source
PTC Heater (1CD–FTV)
1
2
3
4
E 8(B), E10(C)
Engine ECU
HREL3
HREL1
HREL2
E2
THW
Engine Control System
<4–8><4–9>
GR
L
B–W
J16
Junction
Connector
SB(L–O)
L–O
IH2
HTR SUB 2
Relay
HTR SUB 1
Relay
HTR SUB 3
Relay
50A
HTR
SUB 2
50A
HTR
SUB 1
50A
HTR
SUB 3
W
W–L
W–R
B
B–L
B–R
G
ID2
IG1
P5
PTC Heater
10A
HTR
IB
IH
IJ
IG1
Relay
B–Y
W–B
IA
Left Kick Panel
ACC
IG1
ST1
AM1
I14
Ignition SW
25A AM1
IN
140A ALT
FL MAIN
3. 0W
Battery
J38(A), J39(B)
Junction Block
2I


(Cont. next page)
33 AVENSIS VERSO / PICNIC (LHD)
Power Source
Front Air Conditioner (Automatic A/C)
Diode (Fan) <28–4>
G–R (*3)
Engine and ECT ECU (A/T)<3–11> Engine ECU (M/T) <3–11>
COMP Relay
A 1 A/C Lock Sensor A/C Magnetic Clutch
HTR Relay
B16 Blower Motor Controller
B 5 Blower Motor
J8 Junction Connector
Left Radiator Side Support
Right Kick Panel
Left Kick Panel
10A HTR
7. 5A GAUGE
IG1 Relay
25A AM1
I14 Ignition SW
50A HTR
140A ALT
7. 5A ECU–B
30A DCC
FL MAIN 3. 0W
Battery
* 1 : w/ Two Way Flow Heater
* 2 : w/o Two Way Flow Heater
* 3 : 1AZ–FE
* 4 : 1CD–FTV

33 AVENSIS VERSO / PICNIC (LHD) (Cont' d)

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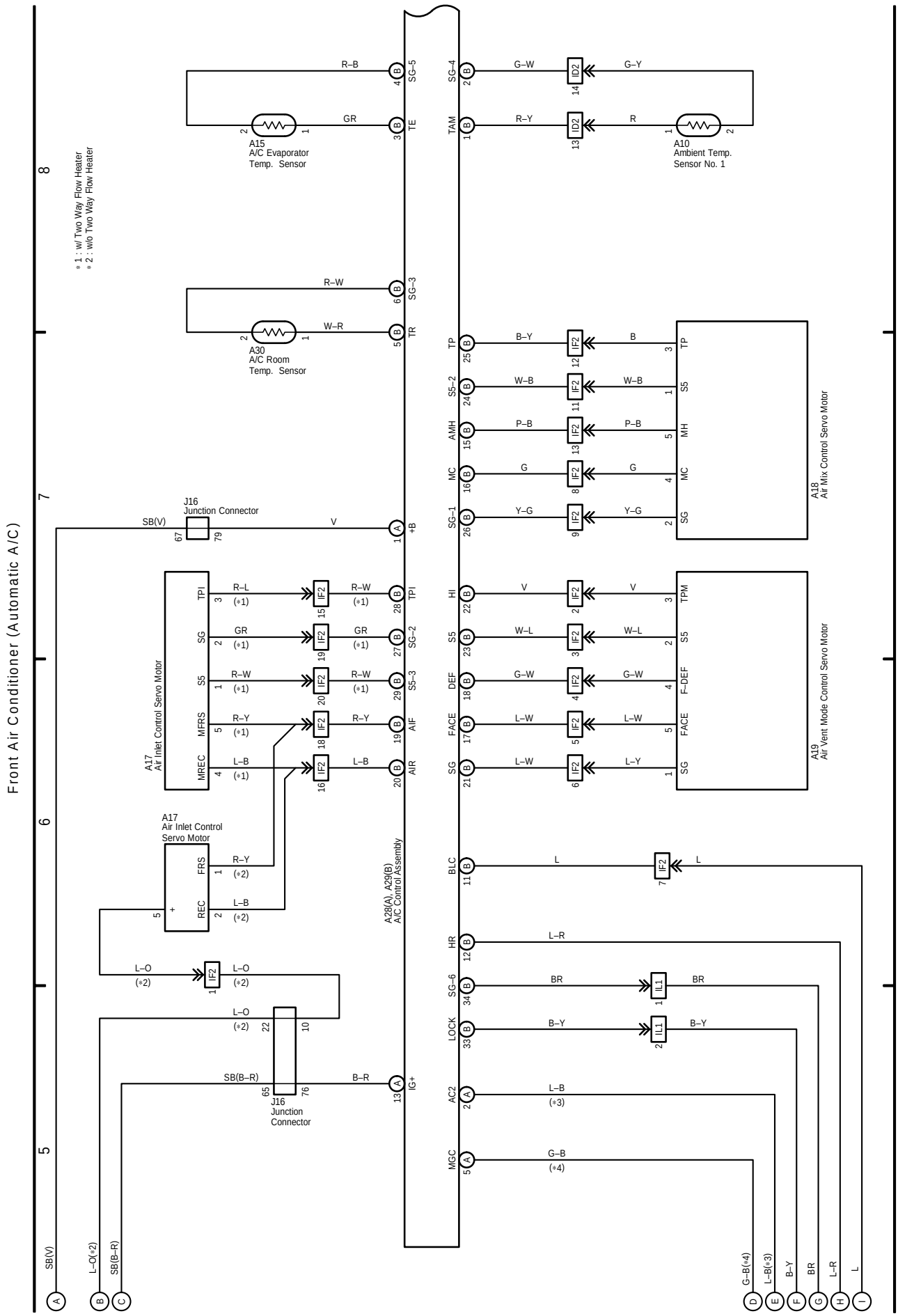
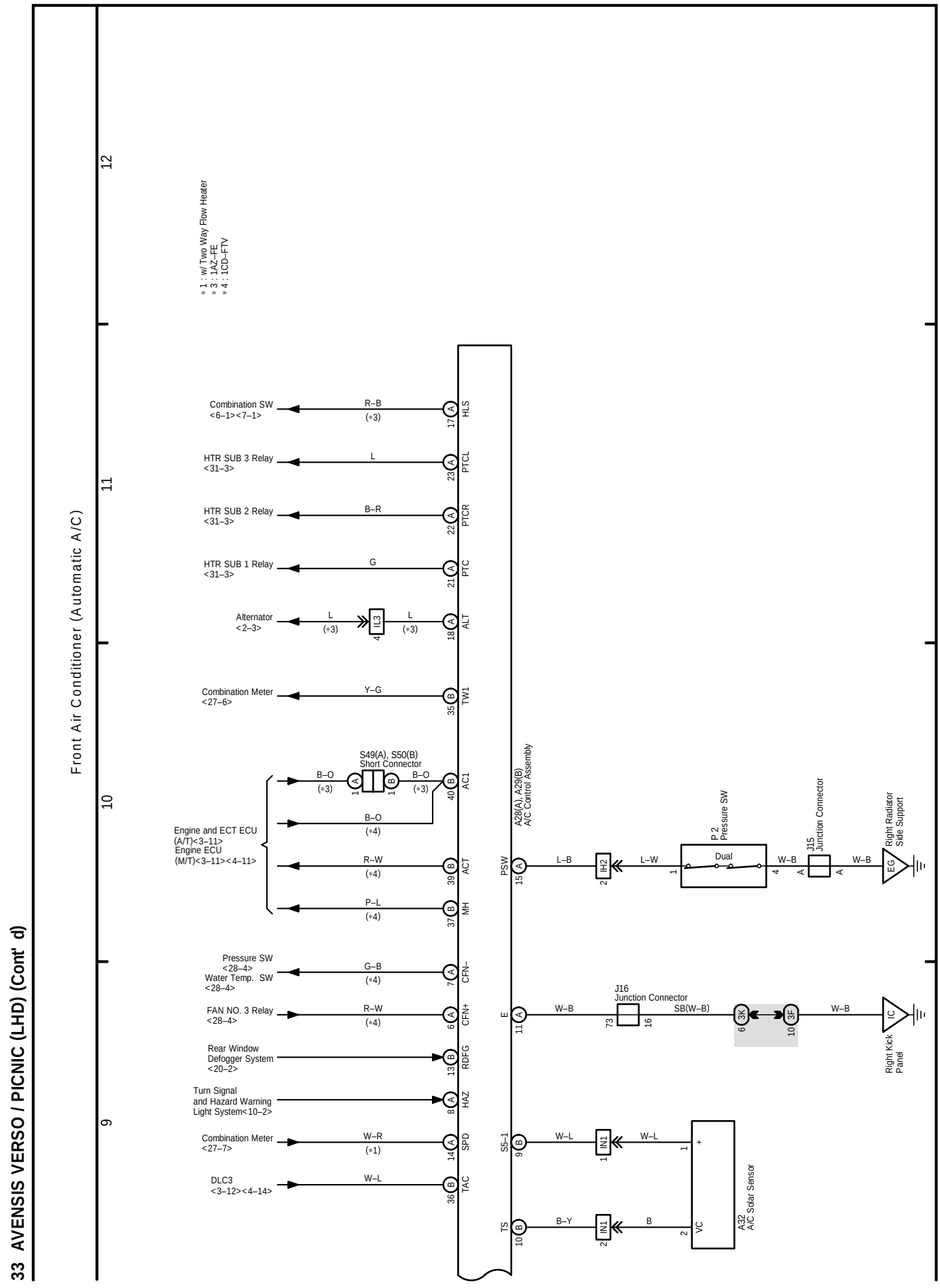
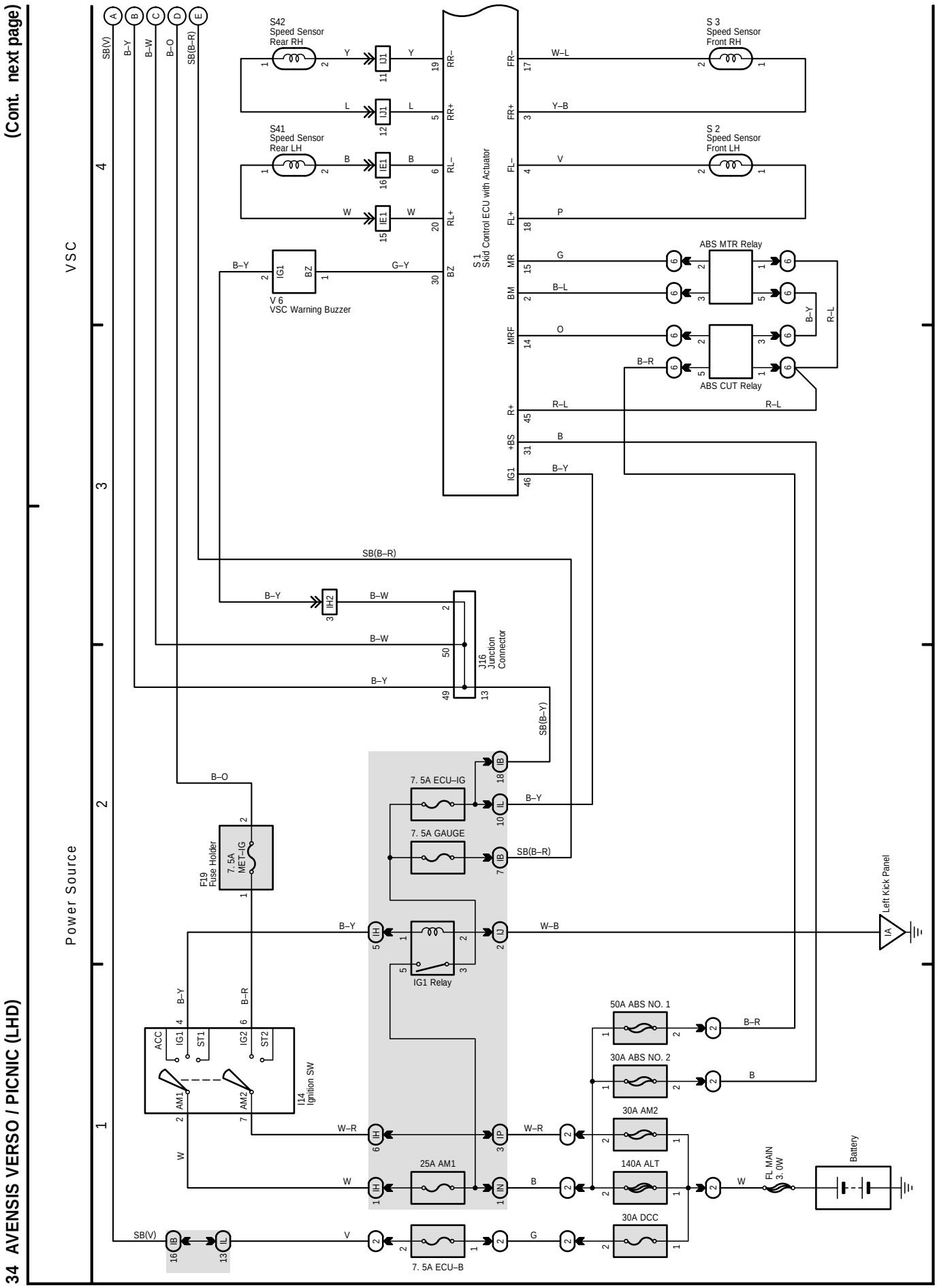



33 AVENSIS VERSO / PICNIC (LHD) (Cont' d)
Front Air Conditioner (Automatic A/C)
9
10
11
12
*1 : w/ Two Way Flow Heater
*3 : 1AZ–FE
*4 : 1CD–FTV
Combination SW <6–1><7–1>
R–B (*3)
17 A HLS
HTR SUB 3 Relay <31–3>
L
23 A PTCL
HTR SUB 2 Relay <31–3>
B–R
22 A PTCR
HTR SUB 1 Relay <31–3>
G
21 A PTC
Alternator <2–3>
L (*3)
IL3 4
L (*3)
18 A ALT
Combination Meter <27–6>
Y–G
35 B TW1
S49(A), S50(B) Short Connector
B–O (*3)
1 A
1 B
B–O (*3)
40 B AC1
Engine and ECT ECU (A/T)<3–11> Engine ECU (M/T)<3–11><4–11>
B–O (*4)
R–W (*4)
39 B ACT
P–L (*4)
37 B MH
Pressure SW <28–4>
Water Temp. SW <28–4>
G–B (*4)
7 A CFN–
FAN NO. 3 Relay <28–4>
R–W (*4)
6 A CFN+
Rear Window Defogger System <20–2>
13 B RDFG
Turn Signal and Hazard Warning Light System<10–2>
8 A HAZ
Combination Meter <27–7>
W–R (*1)
14 A SPD
DLC3 <3–12><4–14>
W–L
36 B TAC
A28(A), A29(B) A/C Control Assembly
PSW 15 A
L–B
IH2 2
L–W
1 P 2 Pressure SW Dual
W–B
4 A J15 Junction Connector A
W–B
EG Right Radiator Side Support
E 11 A
W–B
73 J16 Junction Connector 16
SB(W–B)
6 3K
10 3F
W–B
IC Right Kick Panel
S5–1 9 B
W–L
IN1 1
W–L
1 +
TS 10 B
B–Y
IN1 2
B
2 VC
A32 A/C Solar Sensor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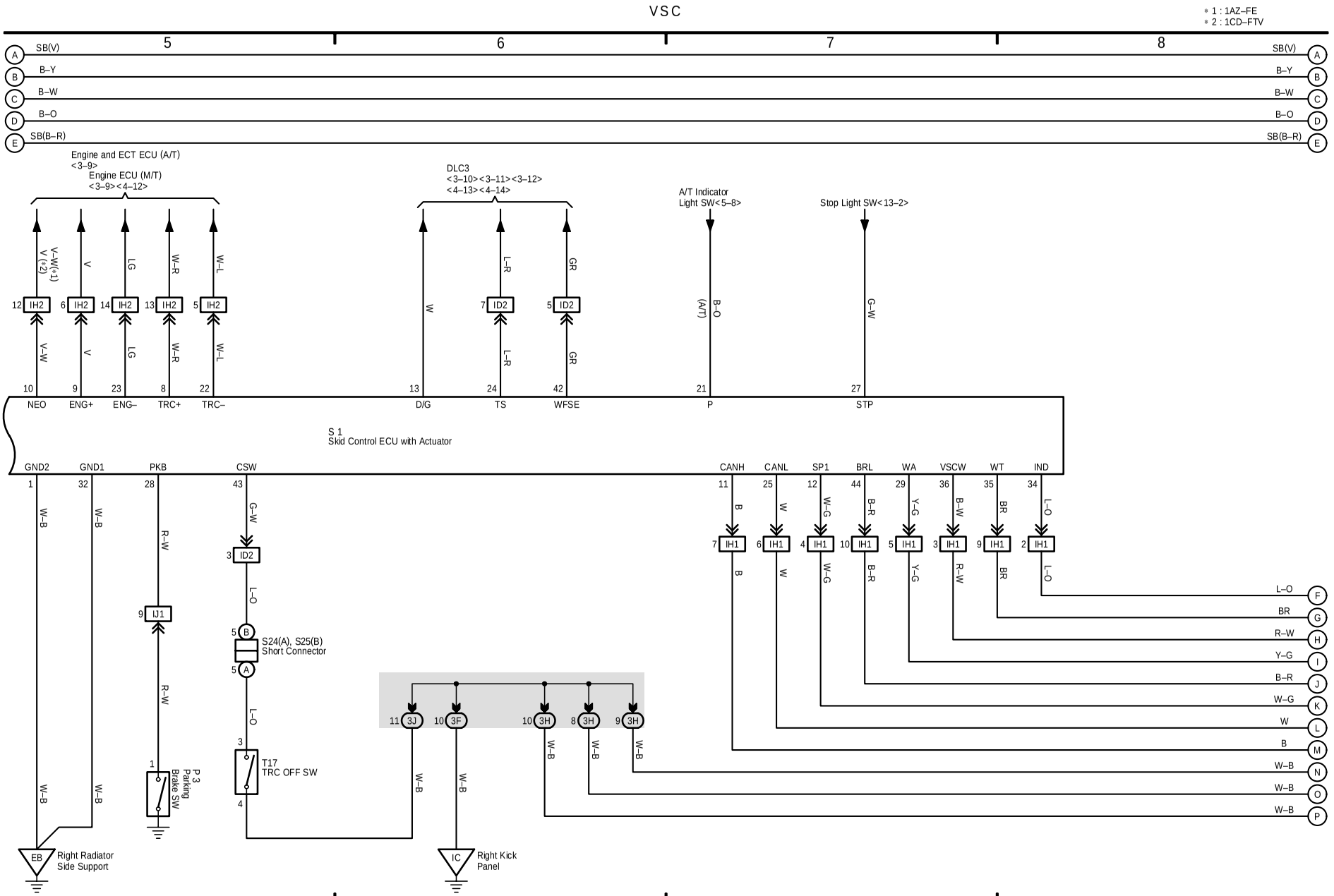
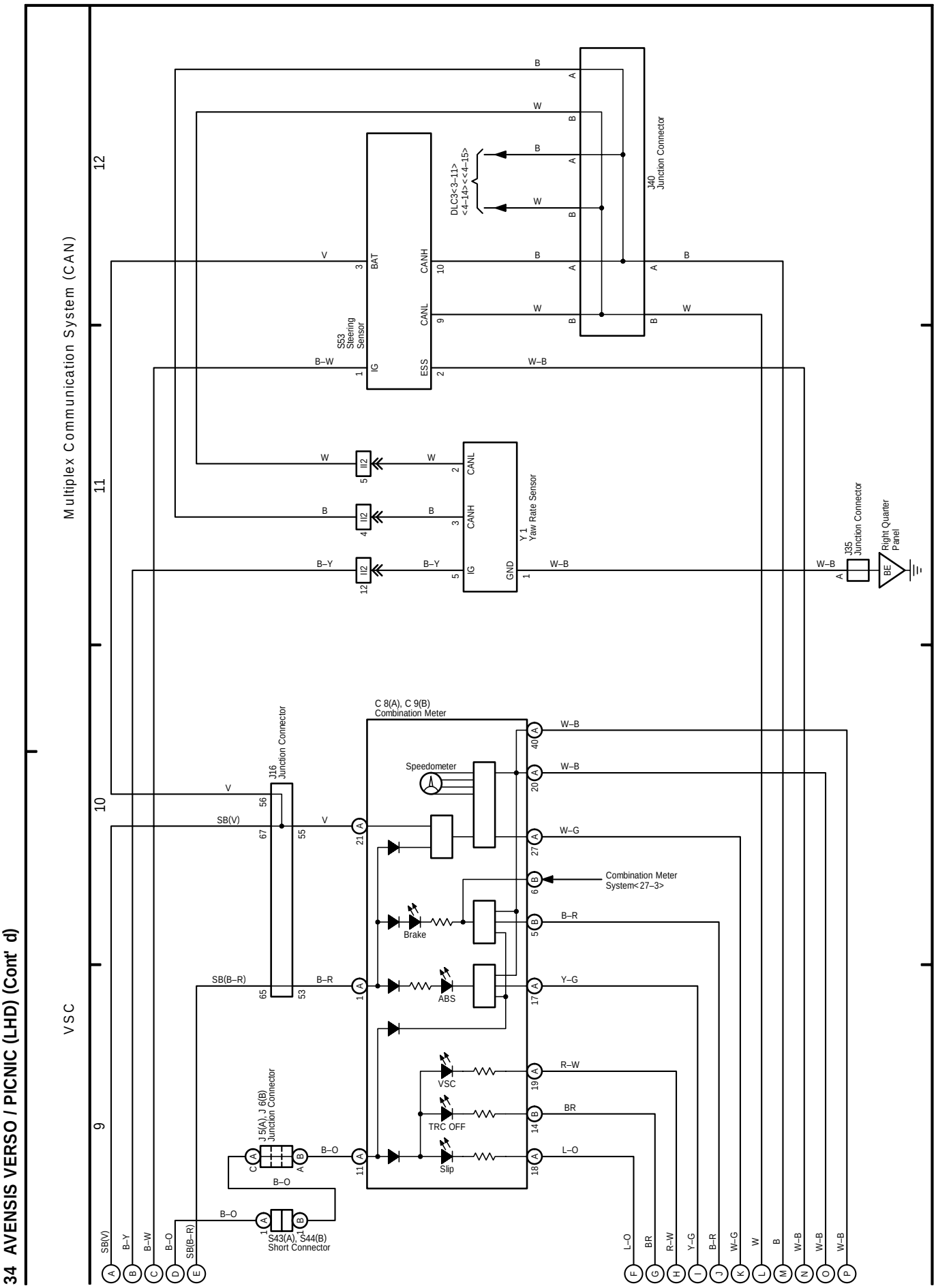
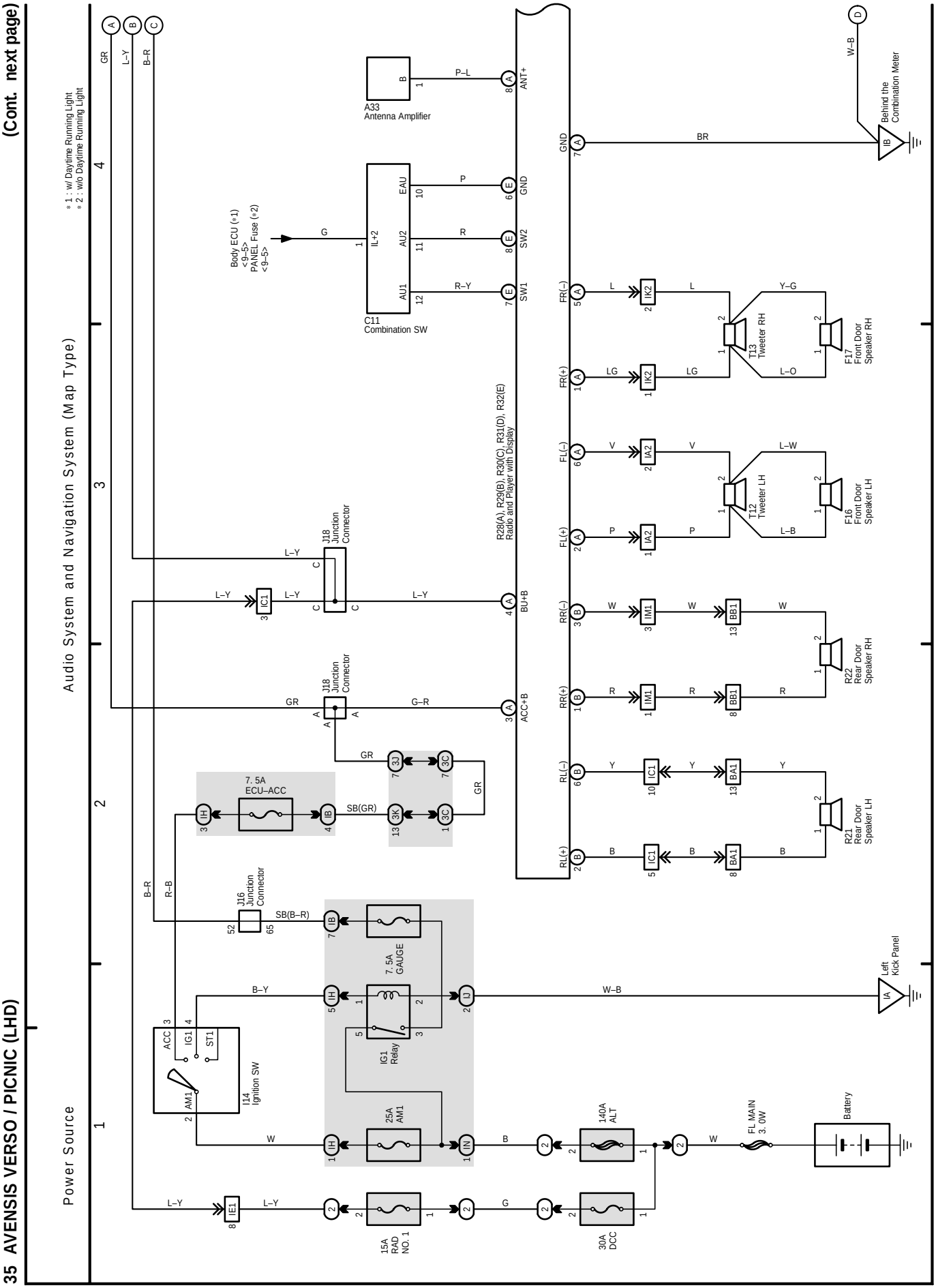
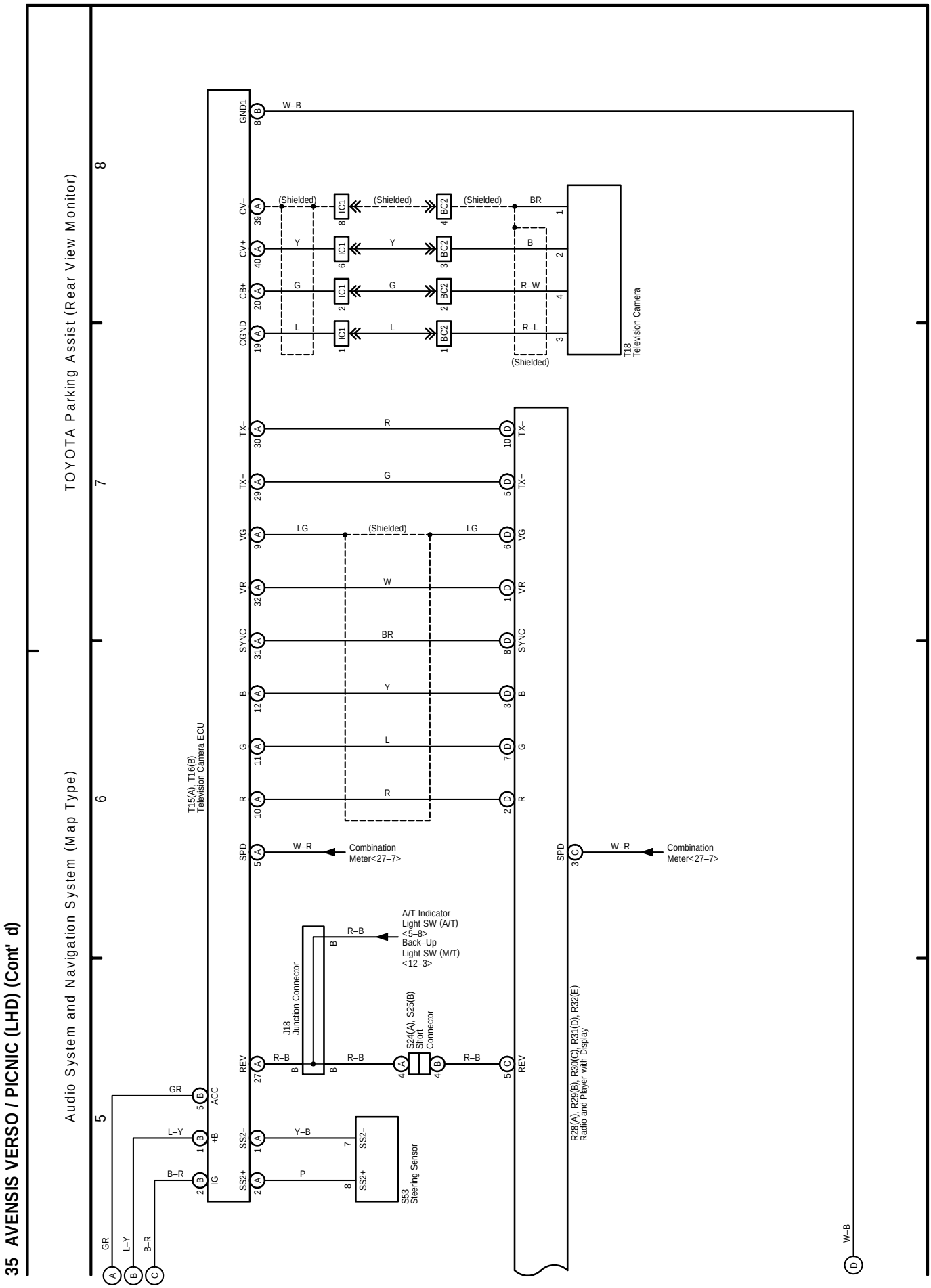
34 AVENSIS VERSO / PICNIC (LHD)
VSC
Power Source
S42 Speed Sensor Rear RH
S41 Speed Sensor Rear LH
S 3 Speed Sensor Front RH
S 2 Speed Sensor Front LH
S 1 Skid Control ECU with Actuator
V 6 VSC Warning Buzzer
ABS MTR Relay
ABS CUT Relay
J16 Junction Connector
F19 Fuse Holder
7. 5A MET–IG
7. 5A ECU–IG
7. 5A GAUGE
IG1 Relay
I14 Ignition SW
50A ABS NO. 1
30A ABS NO. 2
30A AM2
25A AM1
140A ALT
30A DCC
7. 5A ECU–B
FL MAIN 3. 0W
Battery
Left Kick Panel

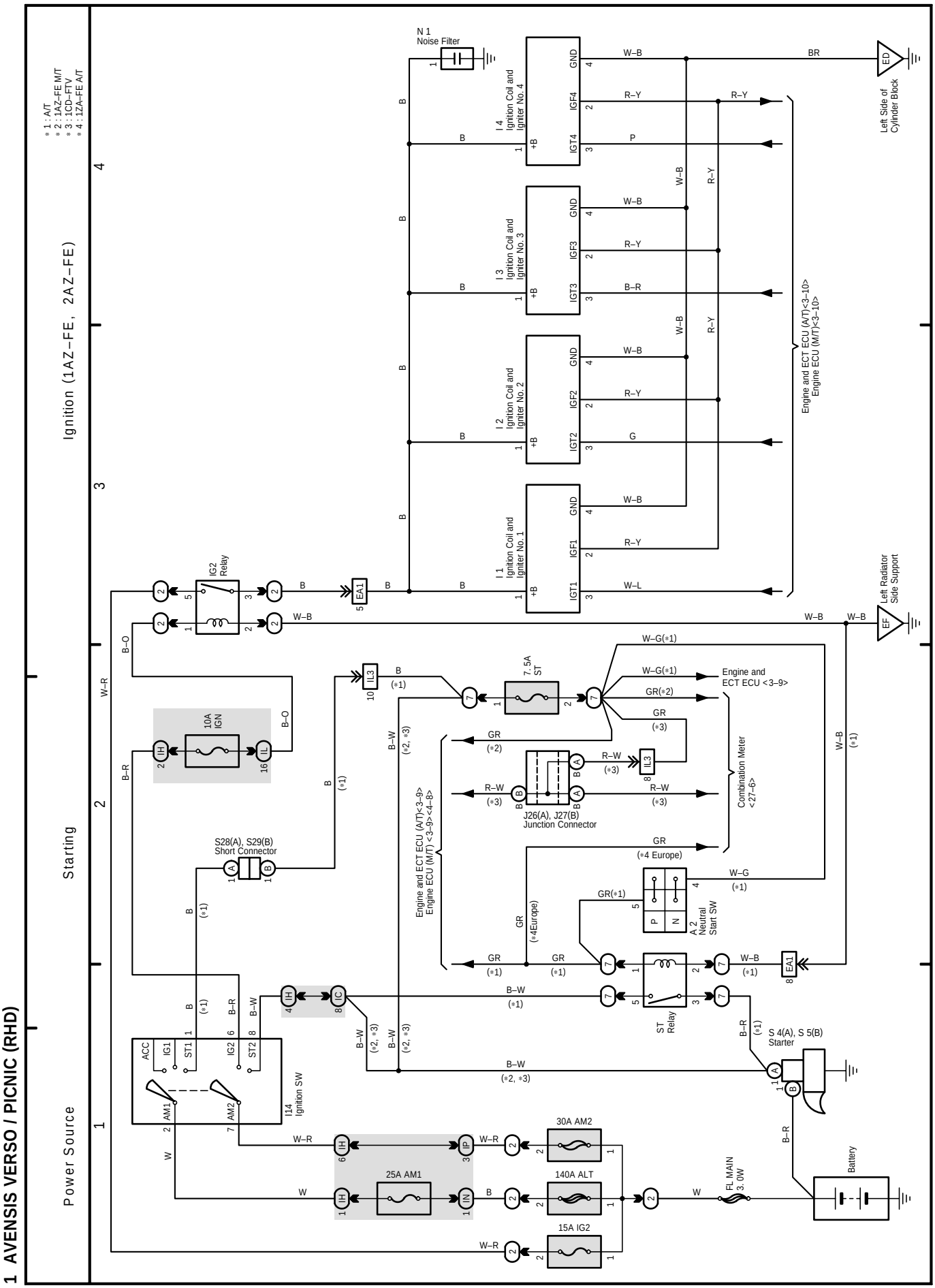
(Cont. next page)

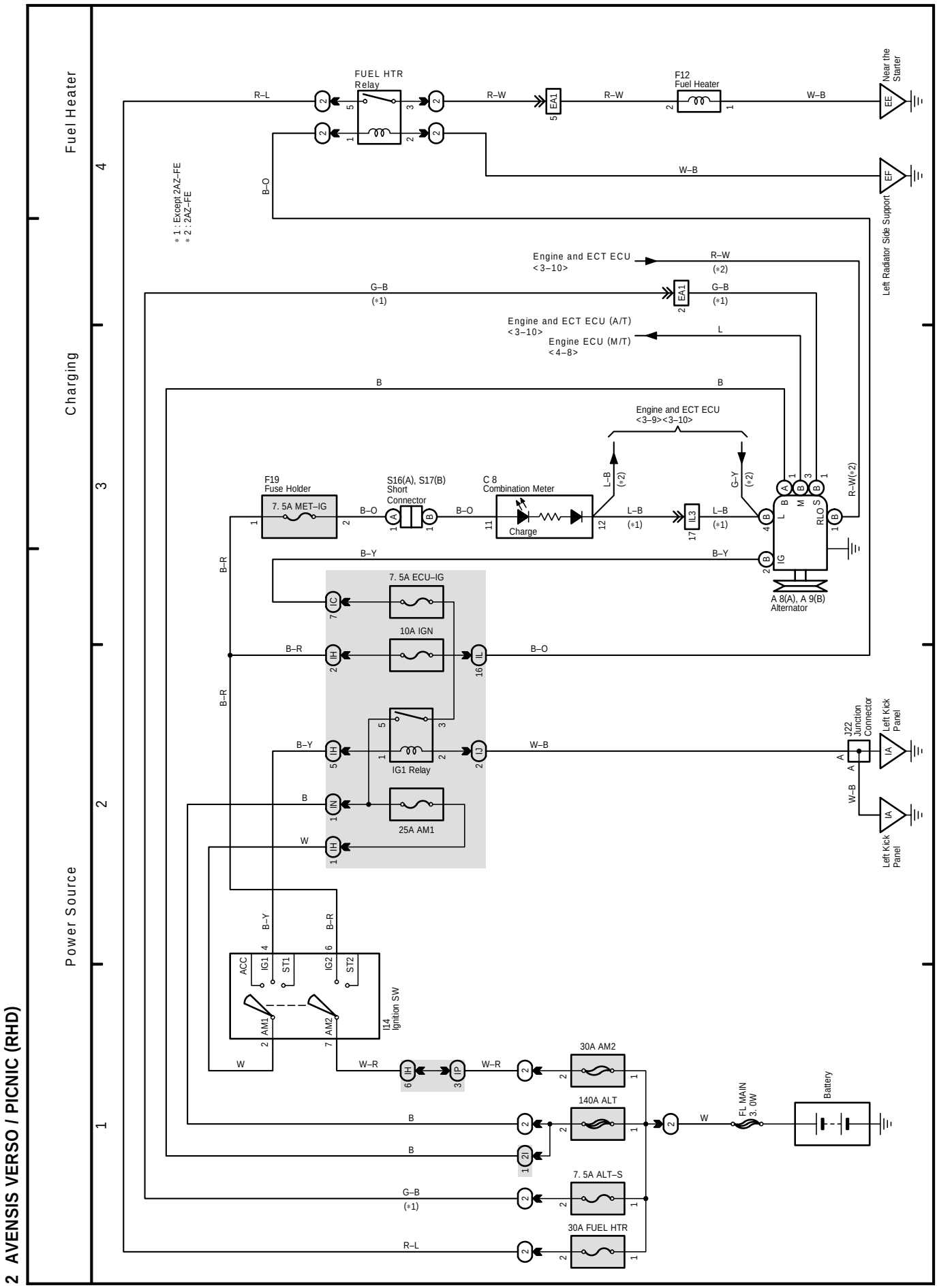


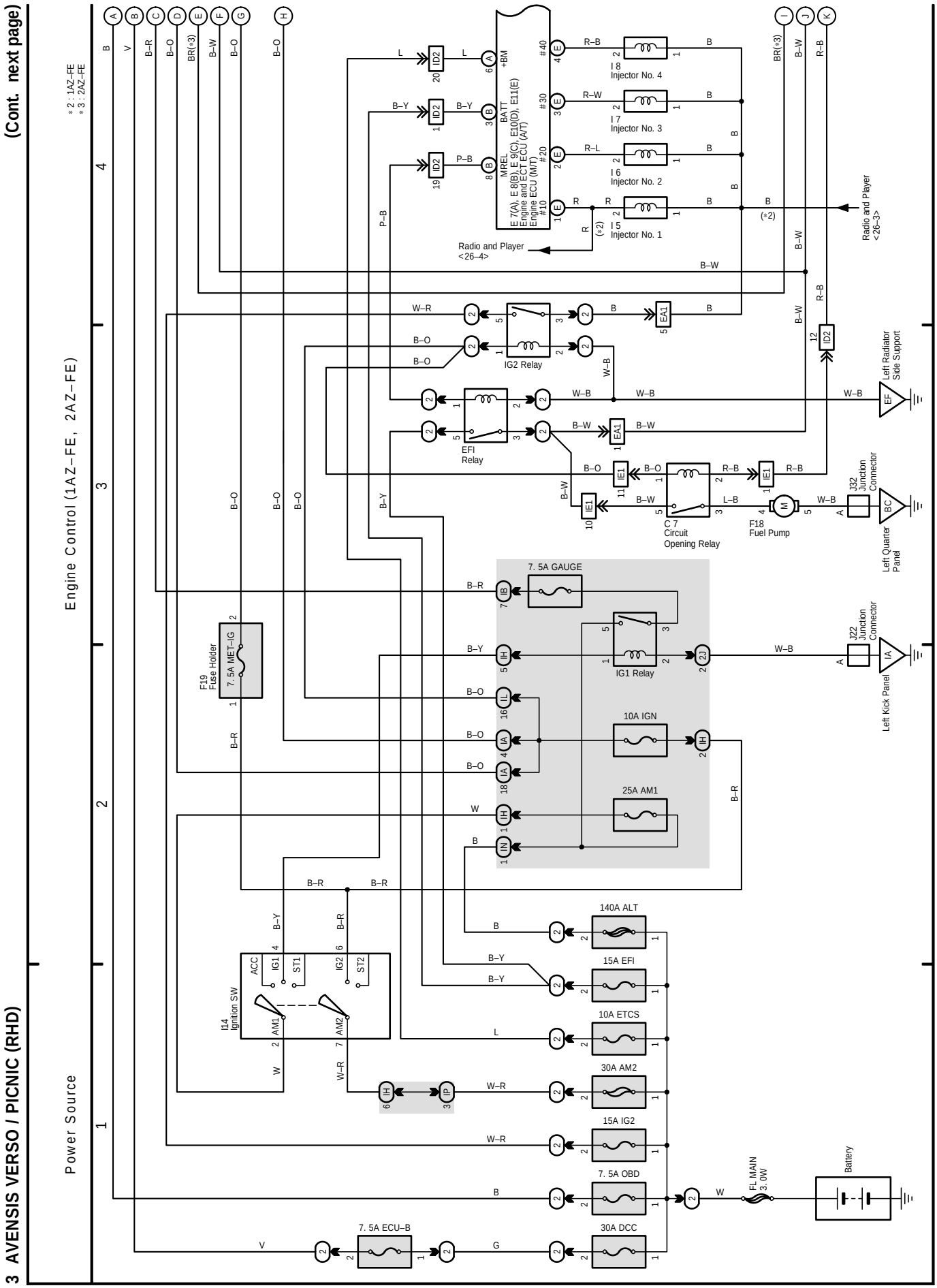

34 AVENSIS VERSO / PICNIC (LHD) (Cont' d)
VSC
Multiplex Communication System (CAN)
12
11
10
9
J40 Junction Connector
DLC3<3–11><4–14><4–15>
S53 Steering Sensor
BAT
IG
ESS
CANH
CANL
Y 1 Yaw Rate Sensor
GND
J35 Junction Connector
Right Quarter Panel
BE
C 8(A), C 9(B) Combination Meter
J16 Junction Connector
Speedometer
Combination Meter System< 27–3>
Brake
ABS
VSC
TRC OFF
Slip
J 5(A), J 6(B) Junction Connector
S43(A), S44(B) Short Connector
SB(V)
B–Y
B–W
B–O
SB(B–R)
L–O
BR
R–W
Y–G
B–R
W–G
W
B
W–B


35 AVENSIS VERSO / PICNIC (LHD)
(Cont. next page)
Power Source
Audio System and Navigation System (Map Type)
* 1 : w/ Daytime Running Light
* 2 : w/o Daytime Running Light
A33
Antenna Amplifier
C11
Combination SW
Body ECU (*1)
<9–5>
PANEL Fuse (*2)
<9–5>
R28(A), R29(B), R30(C), R31(D), R32(E)
Radio and Player with Display
J18
Junction
Connector
J16
Junction
Connector
7. 5A
ECU–ACC
7. 5A
GAUGE
IG1
Relay
I14
Ignition SW
25A
AM1
140A
ALT
FL MAIN
3. 0W
Battery
15A
RAD
NO. 1
30A
DCC
Behind the
Combination Meter
Left
Kick Panel
T13
Tweeter RH
F17
Front Door
Speaker RH
T12
Tweeter LH
F16
Front Door
Speaker LH
R22
Rear Door
Speaker RH
R21
Rear Door
Speaker LH


35 AVENSIS VERSO / PICNIC (LHD) (Cont' d)
Audio System and Navigation System (Map Type)
TOYOTA Parking Assist (Rear View Monitor)
5
6
7
8
T15(A), T16(B)
Television Camera ECU
GND1
CV–
CV+
CB+
CGND
TX–
TX+
VG
VR
SYNC
B
G
R
SPD
REV
ACC
+B
IG
SS2–
SS2+
(Shielded)
IC1
BC2
T18
Television Camera
W–B
R
G
LG
W
BR
Y
L
Y–B
P
B–R
L–Y
GR
W–R
Combination
Meter<27–7>
A/T Indicator
Light SW (A/T)
<5–8>
Back–Up
Light SW (M/T)
<12–3>
R–B
J18
Junction Connector
S24(A), S25(B)
Short
Connector
S53
Steering Sensor
R28(A), R29(B), R30(C), R31(D), R32(E)
Radio and Player with Display

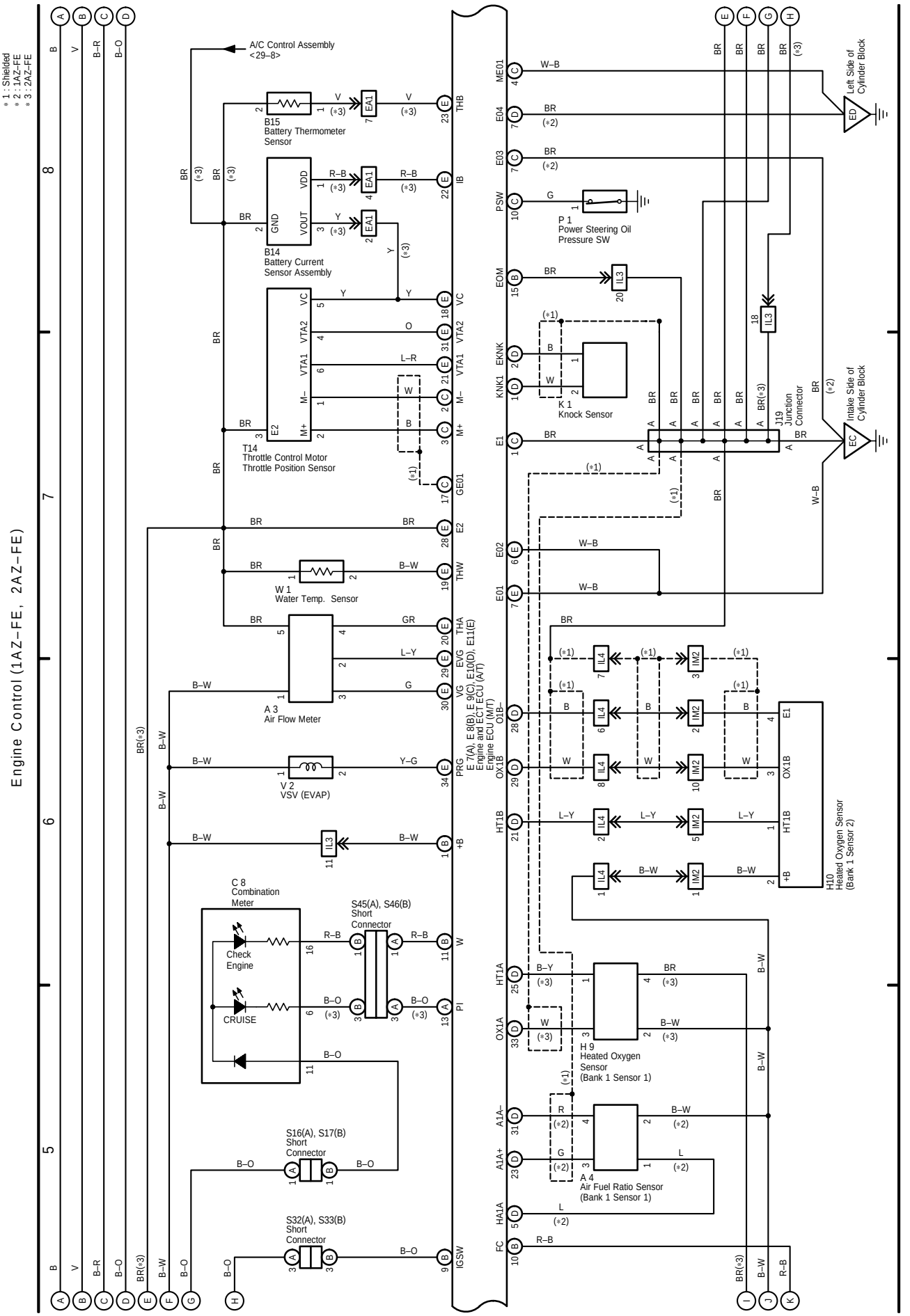

1 AVENSIS VERSO / PICNIC (RHD)
Power Source
Starting
Ignition (1AZ–FE, 2AZ–FE)
* 1 : A/T
* 2 : 1AZ–FE M/T
* 3 : 1CD–FTV
* 4 : 1ZA–FE A/T
N 1
Noise Filter
I 4
Ignition Coil and Igniter No. 4
I 3
Ignition Coil and Igniter No. 3
I 2
Ignition Coil and Igniter No. 2
I 1
Ignition Coil and Igniter No. 1
GND
IGF4
IGT4
IGF3
IGT3
IGF2
IGT2
IGF1
IGT1
+B
Left Side of Cylinder Block
Engine and ECT ECU (A/T)<3–10>
Engine ECU (M/T)<3–10>
IG2 Relay
EA1
Left Radiator Side Support
10A IGN
7.5A ST
Engine and ECT ECU <3–9>
Combination Meter <27–6>
J26(A), J27(B) Junction Connector
S28(A), S29(B) Short Connector
Engine and ECT ECU (A/T)<3–9>
Engine ECU (M/T) <3–9><4–8>
A 2 Neutral Start SW
ST Relay
S 4(A), S 5(B) Starter
I14 Ignition SW
ACC
IG1
ST1
IG2
ST2
AM1
AM2
30A AM2
25A AM1
140A ALT
15A IG2
FL MAIN 3.0W
Battery

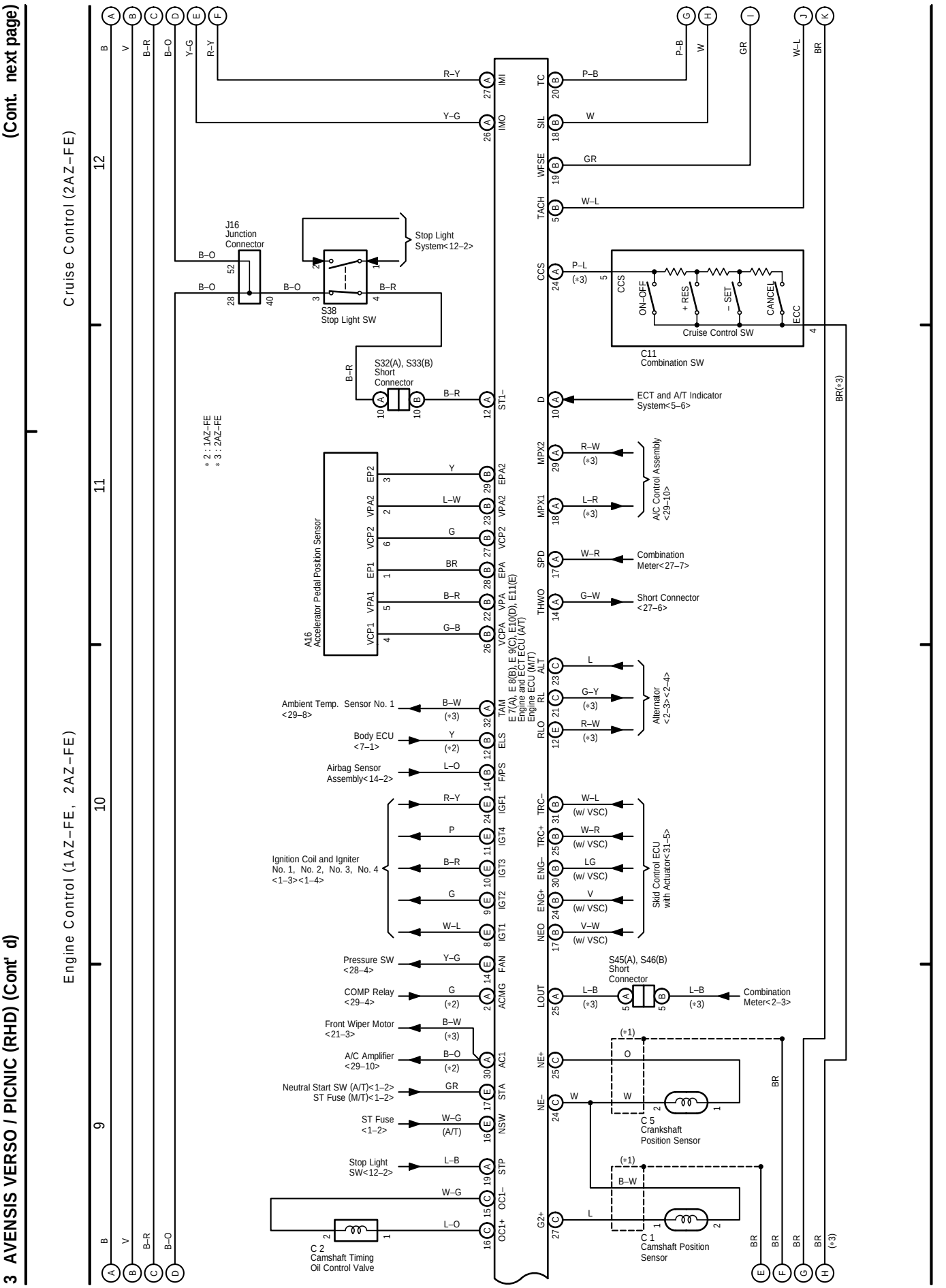

2 AVENSIS VERSO / PICNIC (RHD)
Fuel Heater
Charging
Power Source
1
2
3
4
FUEL HTR Relay
F12 Fuel Heater
Near the Starter
EE
EF
Left Radiator Side Support
* 1 : Except 2AZ-FE
* 2 : 2AZ-FE
Engine and ECT ECU <3–10>
Engine and ECT ECU (A/T) <3–10>
Engine ECU (M/T) <4–8>
Engine and ECT ECU <3–9><3–10>
F19 Fuse Holder
7. 5A MET–IG
S16(A), S17(B) Short Connector
C 8 Combination Meter
Charge
A 8(A), A 9(B) Alternator
7. 5A ECU–IG
10A IGN
IG1 Relay
25A AM1
J22 Junction Connector
Left Kick Panel
I14 Ignition SW
ACC
IG1
ST1
IG2
ST2
AM1
AM2
30A AM2
140A ALT
7. 5A ALT–S
30A FUEL HTR
FL MAIN 3. 0W
Battery

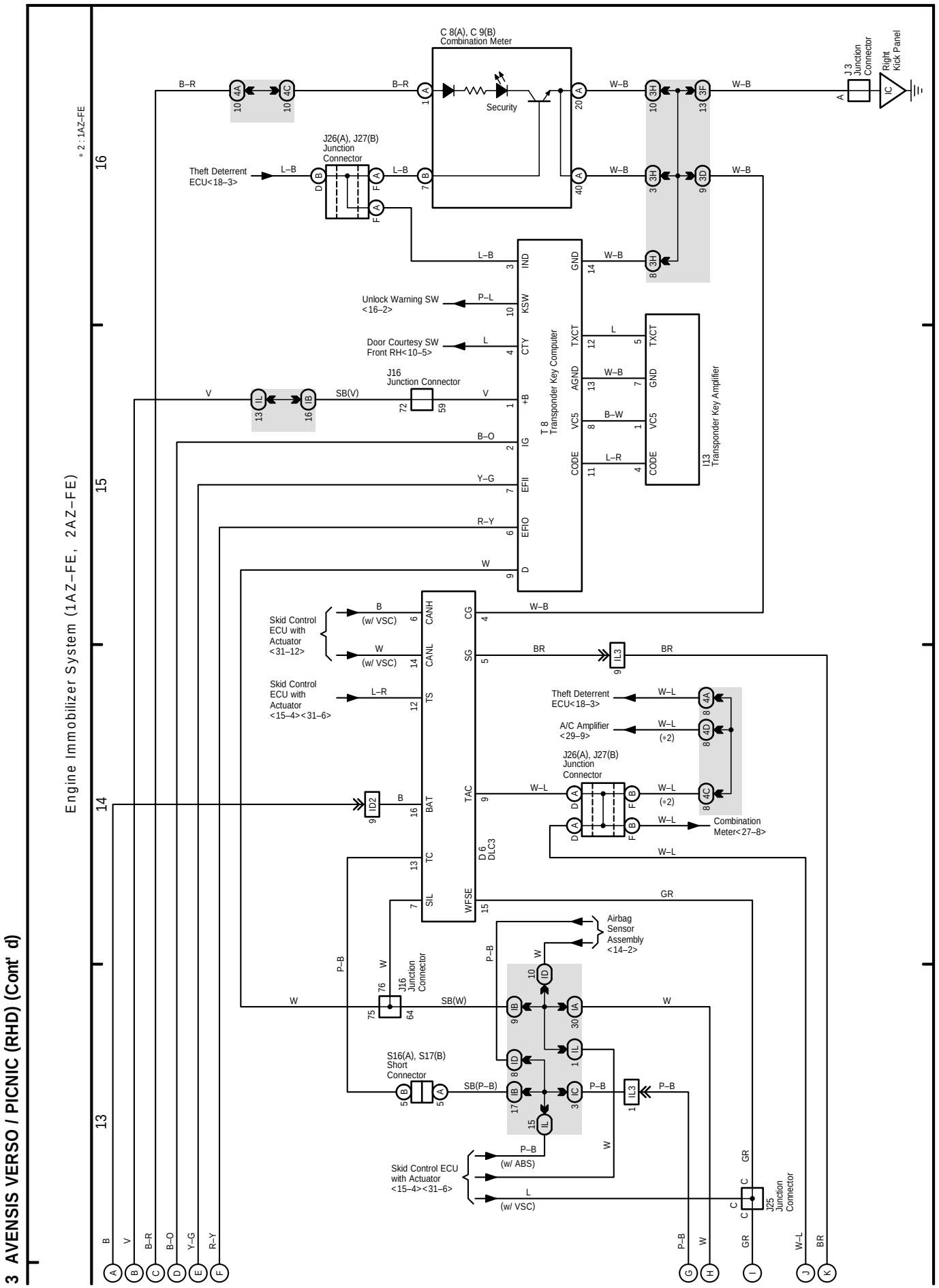

3 AVENSIS VERSO / PICNIC (RHD)
(Cont. next page)
Power Source
Engine Control (1AZ–FE, 2AZ–FE)
*2 : 1AZ–FE
*3 : 2AZ–FE
E 7(A), E 8(B), E 9(C), E10(D), E11(E)
Engine and ECT ECU (A/T)
Engine ECU (M/T)
BATT
MREL
+BM
I 8 Injector No. 4
I 7 Injector No. 3
I 6 Injector No. 2
I 5 Injector No. 1
Radio and Player <26–4>
Radio and Player <26–3>
IG2 Relay
EFI Relay
C 7 Circuit Opening Relay
F18 Fuel Pump
Left Radiator Side Support
Left Quarter Panel
Left Kick Panel
J32 Junction Connector
J22 Junction Connector
F19 Fuse Holder
7. 5A MET–IG
7. 5A GAUGE
IG1 Relay
10A IGN
25A AM1
140A ALT
15A EFI
10A ETCS
30A AM2
15A IG2
7. 5A OBD
7. 5A ECU–B
30A DCC
I14 Ignition SW
ACC
IG1
ST1
IG2
ST2
AM1
AM2
FL MAIN 3. 0W
Battery

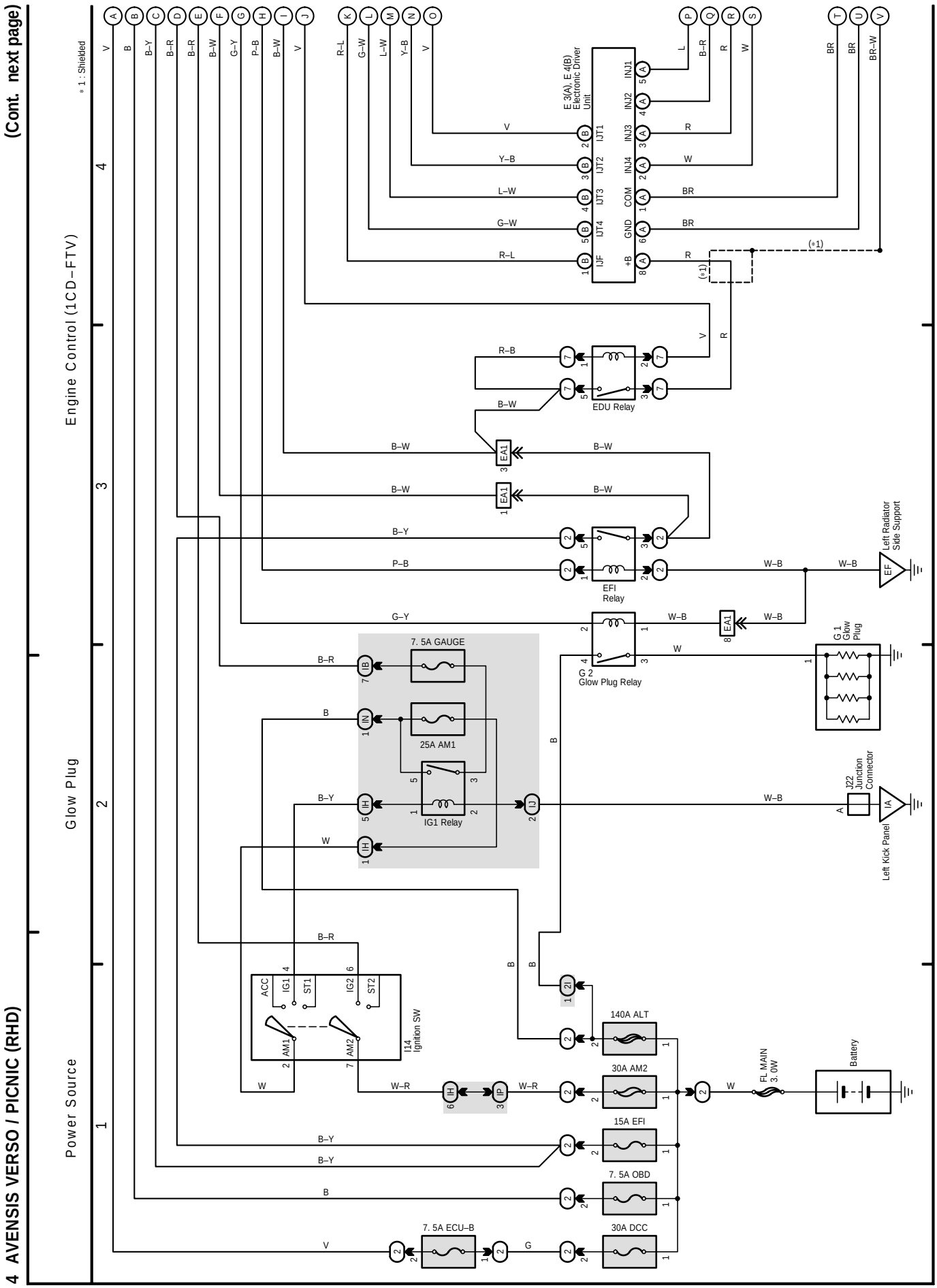
3 AVENSIS VERSO / PICNIC (RHD) (Cont' d)

(Cont. next page)



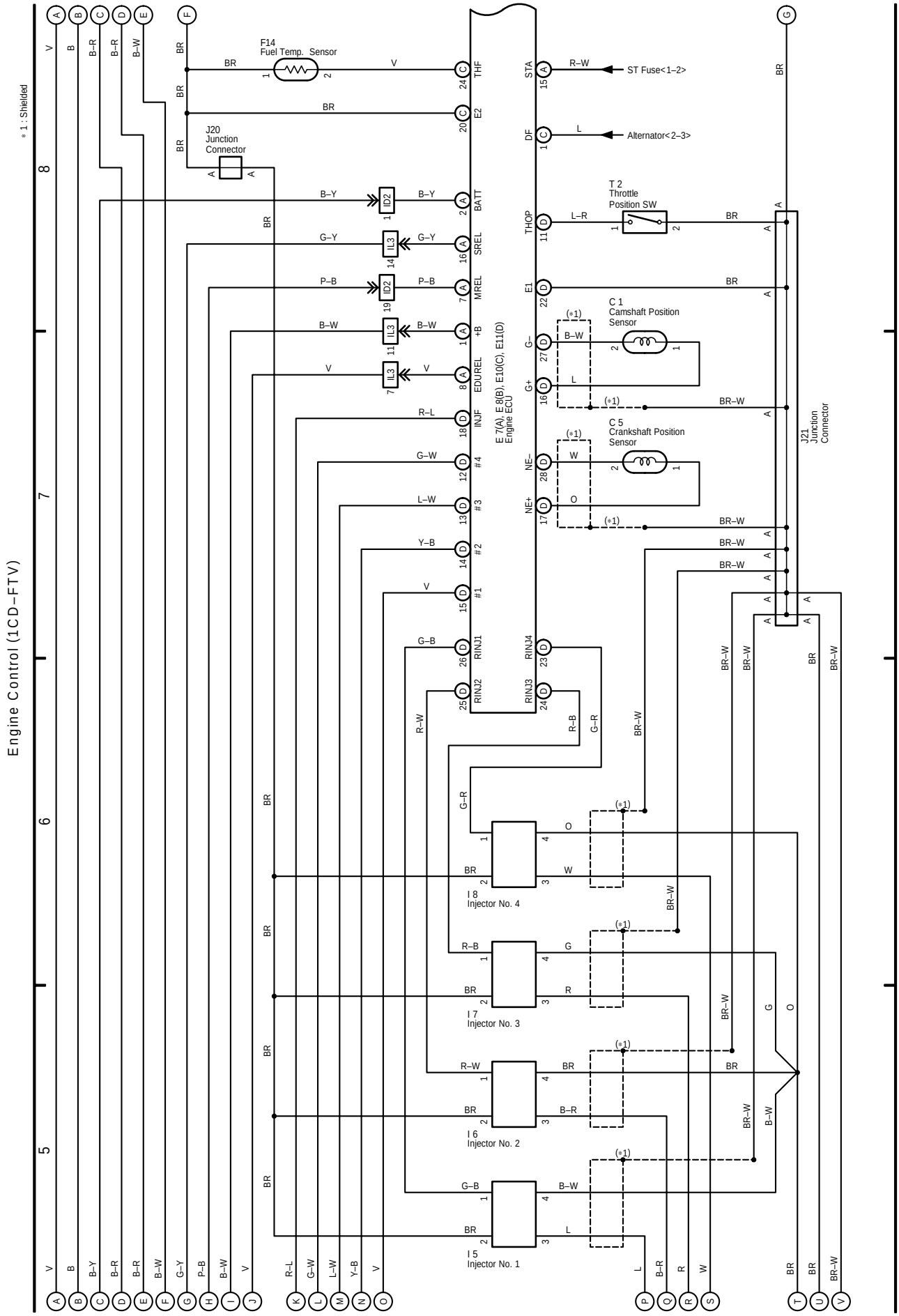

3 AVENSIS VERSO / PICNIC (RHD) (Cont' d)
(Cont. next page)
Engine Control (1AZ–FE, 2AZ–FE)
Cruise Control (2AZ–FE)
* 2 : 1AZ–FE
* 3 : 2AZ–FE
J16 Junction Connector
S38 Stop Light SW
Stop Light System<12–2>
S32(A), S33(B) Short Connector
A16 Accelerator Pedal Position Sensor
E 7(A), E 8(B), E 9(C), E10(D), E11(E) Engine and ECT ECU (A/T) Engine ECU (M/T)
C11 Combination SW
Cruise Control SW
ECT and A/T Indicator System<5–6>
A/C Control Assembly <29–10>
Combination Meter<27–7>
Short Connector <27–6>
Alternator <2–3><2–4>
Ambient Temp. Sensor No. 1 <29–8>
Body ECU <7–1>
Airbag Sensor Assembly<14–2>
Ignition Coil and Igniter No. 1, No. 2, No. 3, No. 4 <1–3><1–4>
Skid Control ECU with Actuator<31–5>
Pressure SW <28–4>
COMP Relay <29–4>
Front Wiper Motor <21–3>
A/C Amplifier <29–10>
Neutral Start SW (A/T)<1–2> ST Fuse (M/T)<1–2>
ST Fuse <1–2>
Stop Light SW<12–2>
S45(A), S46(B) Short Connector
Combination Meter<2–3>
C 5 Crankshaft Position Sensor
C 1 Camshaft Position Sensor
C 2 Camshaft Timing Oil Control Valve

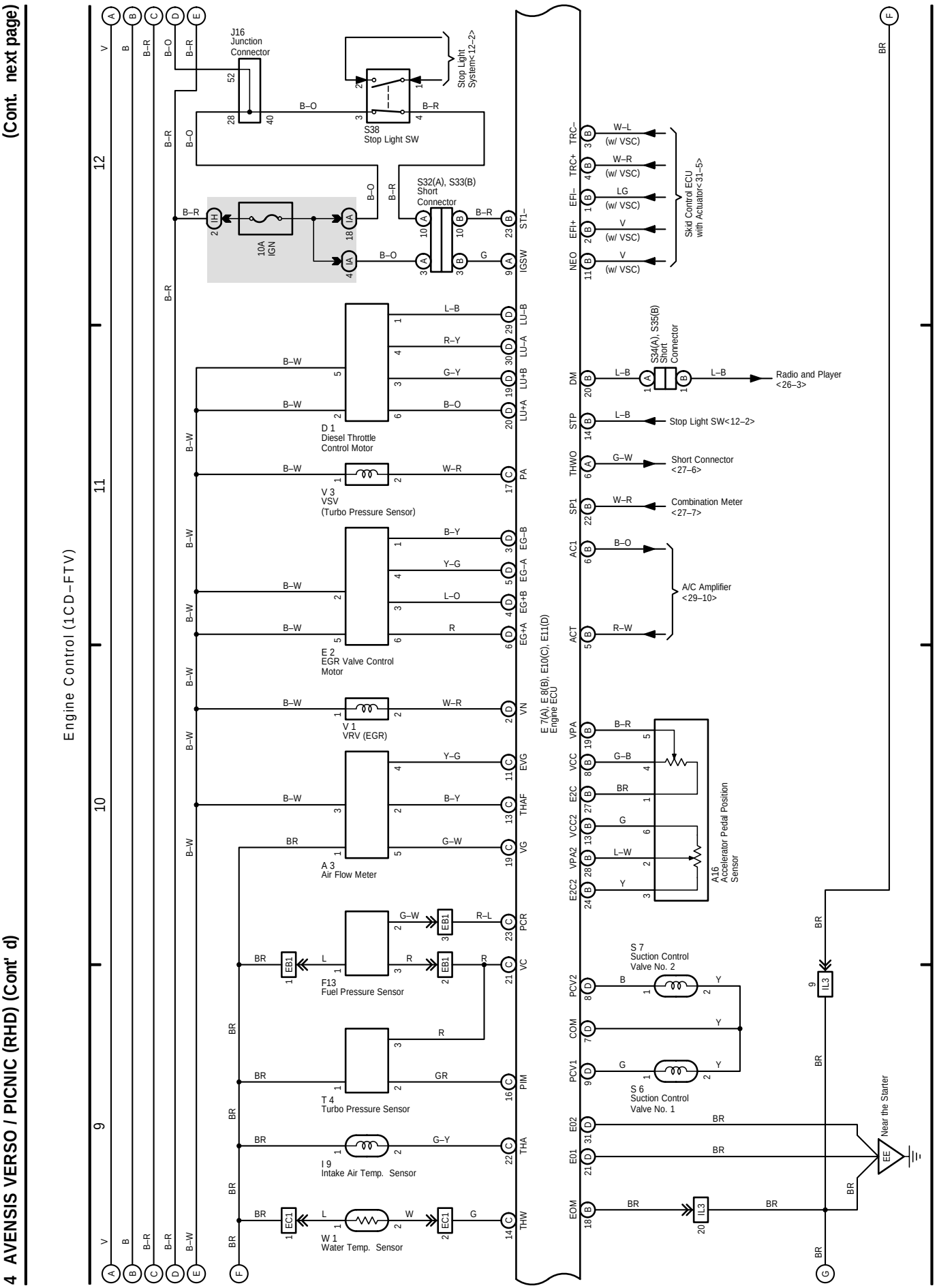

3 AVENSIS VERSO / PICNIC (RHD) (Cont' d)
Engine Immobilizer System (1AZ–FE, 2AZ–FE)
* 2 : 1AZ–FE
C 8(A), C 9(B) Combination Meter
Security
J3 Junction Connector
Right Kick Panel
J26(A), J27(B) Junction Connector
Theft Deterrent ECU<18–3>
Unlock Warning SW <16–2>
Door Courtesy SW Front RH<10–5>
J16 Junction Connector
T 8 Transponder Key Computer
I13 Transponder Key Amplifier
Skid Control ECU with Actuator <31–12>
Skid Control ECU with Actuator <15–4><31–6>
A/C Amplifier <29–9>
Combination Meter<27–8>
D 6 DLC3
Airbag Sensor Assembly <14–2>
S16(A), S17(B) Short Connector
J25 Junction Connector
(w/ ABS)
(w/ VSC)
(*2)


(Cont. next page)
4 AVENSIS VERSO / PICNIC (RHD)
Power Source
Glow Plug
Engine Control (1CD–FTV)
* 1 : Shielded
E 3(A), E 4(B) Electronic Driver Unit
INJ1
INJ2
INJ3
INJ4
COM
GND
+B
IJT1
IJT2
IJT3
IJT4
IJF
EDU Relay
EFI Relay
G 2 Glow Plug Relay
G 1 Glow Plug
Left Radiator Side Support
Left Kick Panel
J22 Junction Connector
7. 5A GAUGE
25A AM1
IG1 Relay
I14 Ignition SW
ACC
IG1
ST1
IG2
ST2
AM1
AM2
140A ALT
30A AM2
15A EFI
7. 5A OBD
7. 5A ECU–B
30A DCC
FL MAIN 3. 0W
Battery

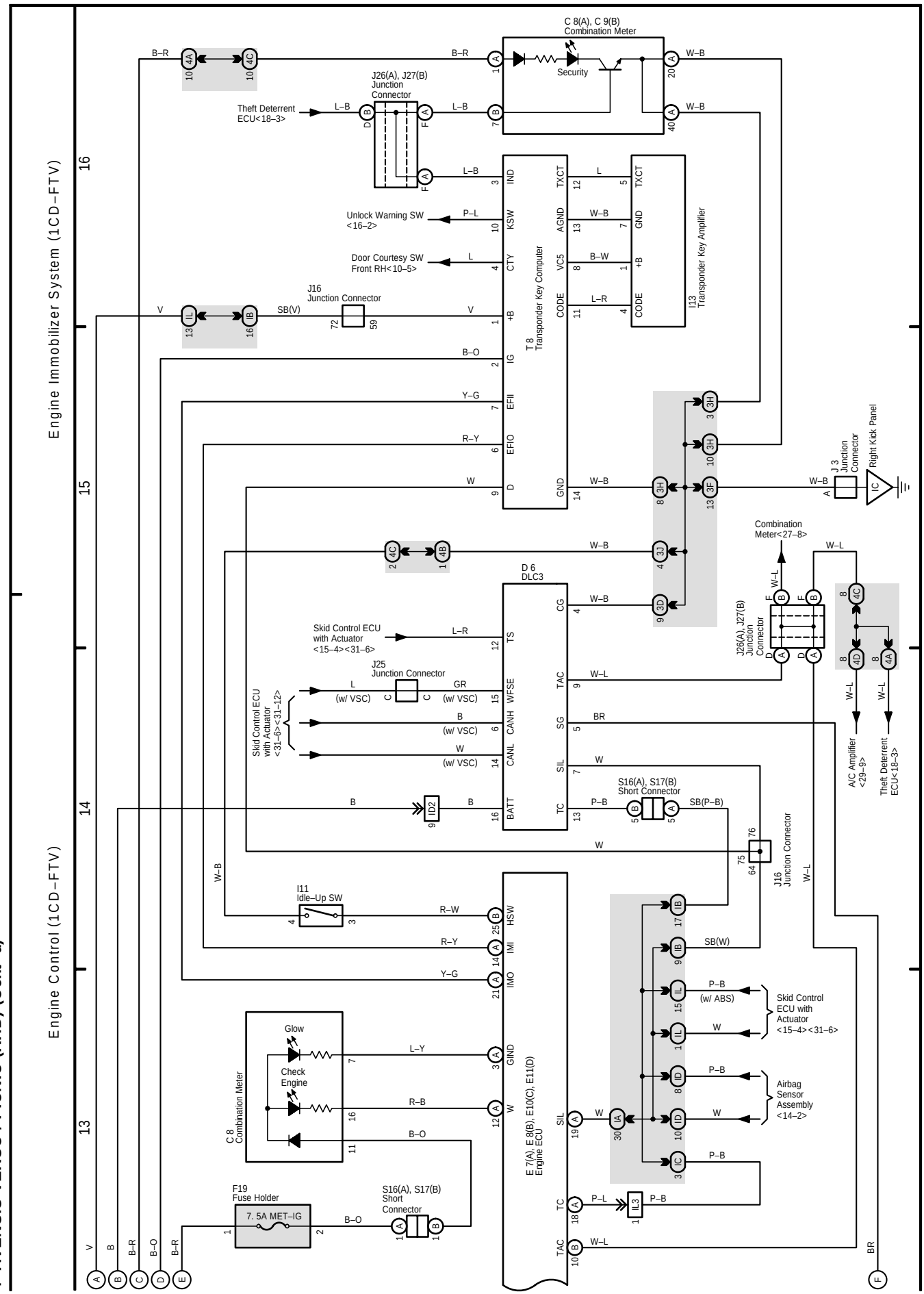
4 AVENSIS VERSO / PICNIC (RHD) (Cont' d)

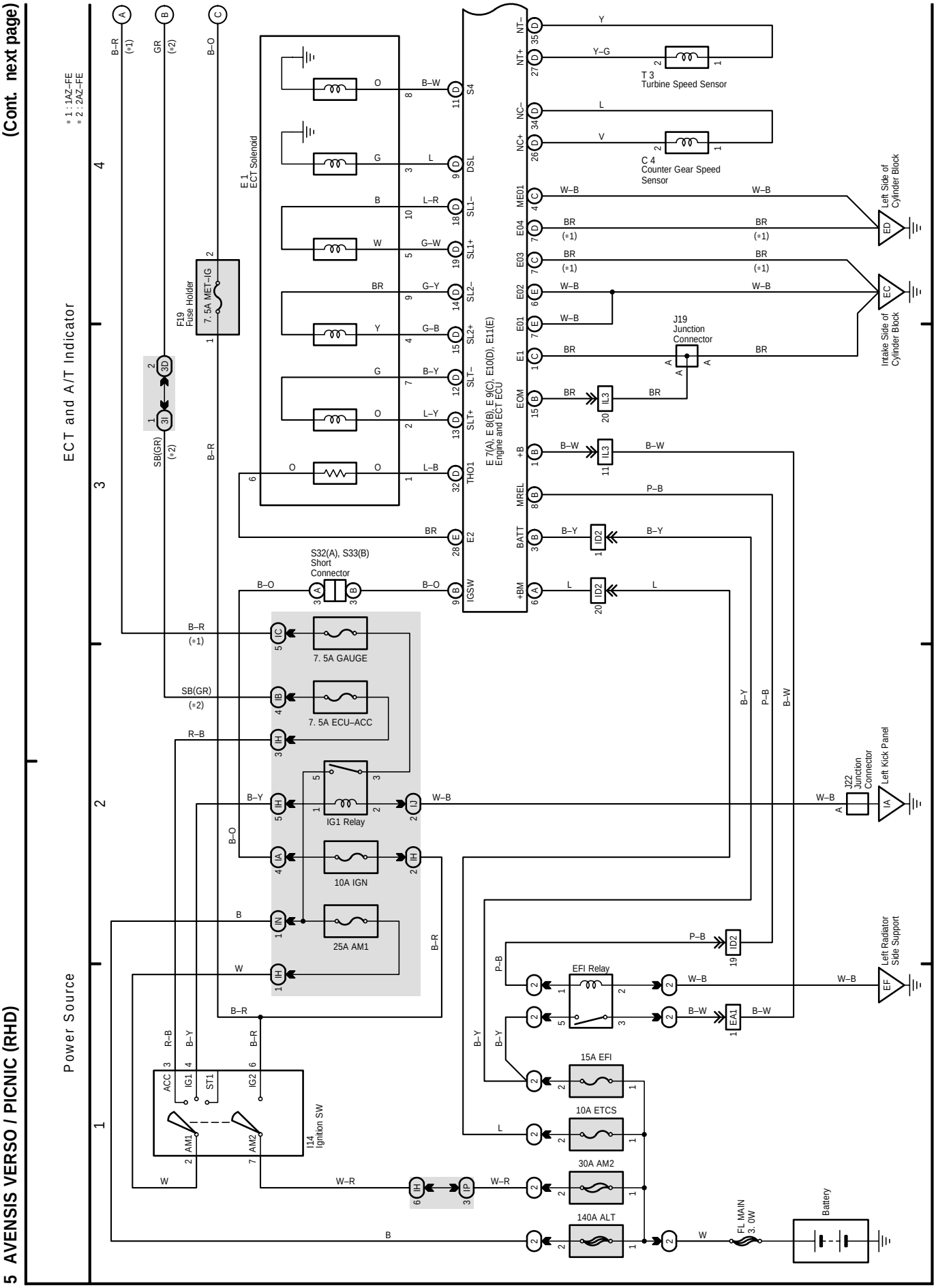
(Cont. next page)



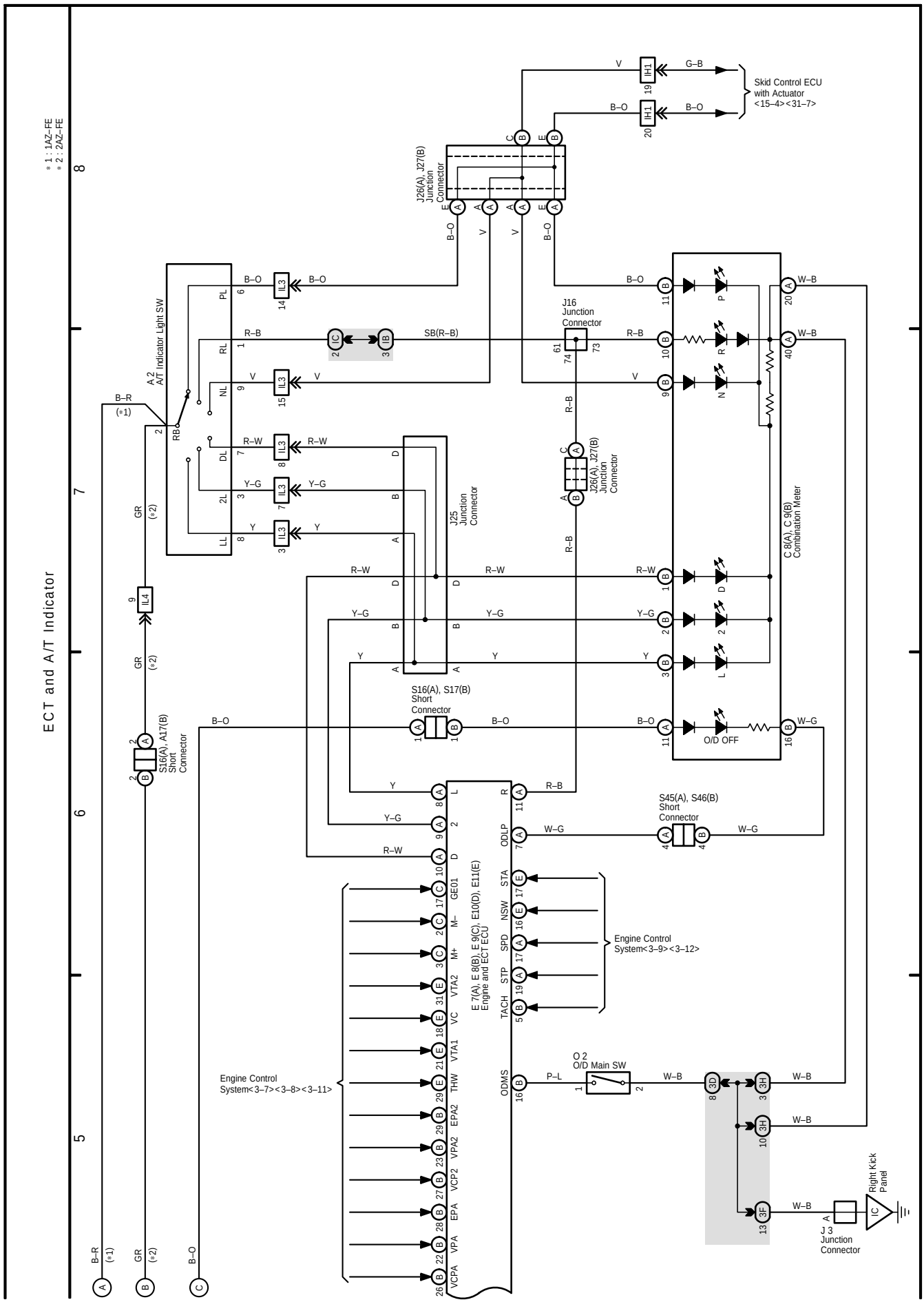

4 AVENSIS VERSO / PICNIC (RHD) (Cont' d)
(Cont. next page)
Engine Control (1CD–FTV)
J16 Junction Connector
S38 Stop Light SW
Stop Light System<12–2>
S32(A), S33(B) Short Connector
10A IGN
D 1 Diesel Throttle Control Motor
V 3 VSV (Turbo Pressure Sensor)
E 2 EGR Valve Control Motor
V 1 VRV (EGR)
A 3 Air Flow Meter
F13 Fuel Pressure Sensor
T 4 Turbo Pressure Sensor
I 9 Intake Air Temp. Sensor
W 1 Water Temp. Sensor
E 7(A), E 8(B), E10(C), E11(D) Engine ECU
Skid Control ECU with Actuator<31–5>
S34(A), S35(B) Short Connector
Radio and Player <26–3>
Stop Light SW<12–2>
Short Connector <27–6>
Combination Meter <27–7>
A/C Amplifier <29–10>
A16 Accelerator Pedal Position Sensor
S 7 Suction Control Valve No. 2
S 6 Suction Control Valve No. 1
Near the Starter

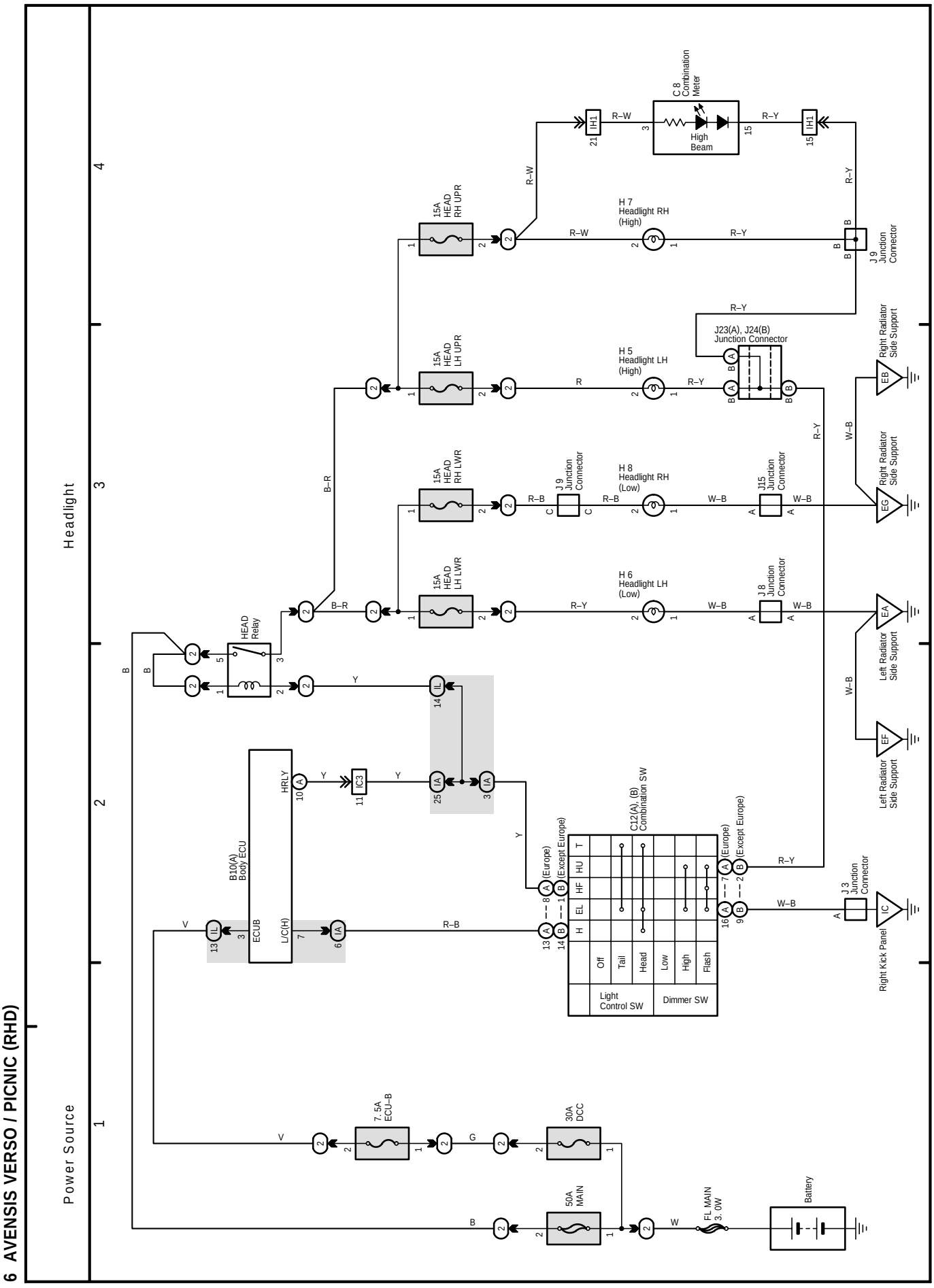
4 AVENSIS VERSO / PICNIC (RHD) (Cont' d)

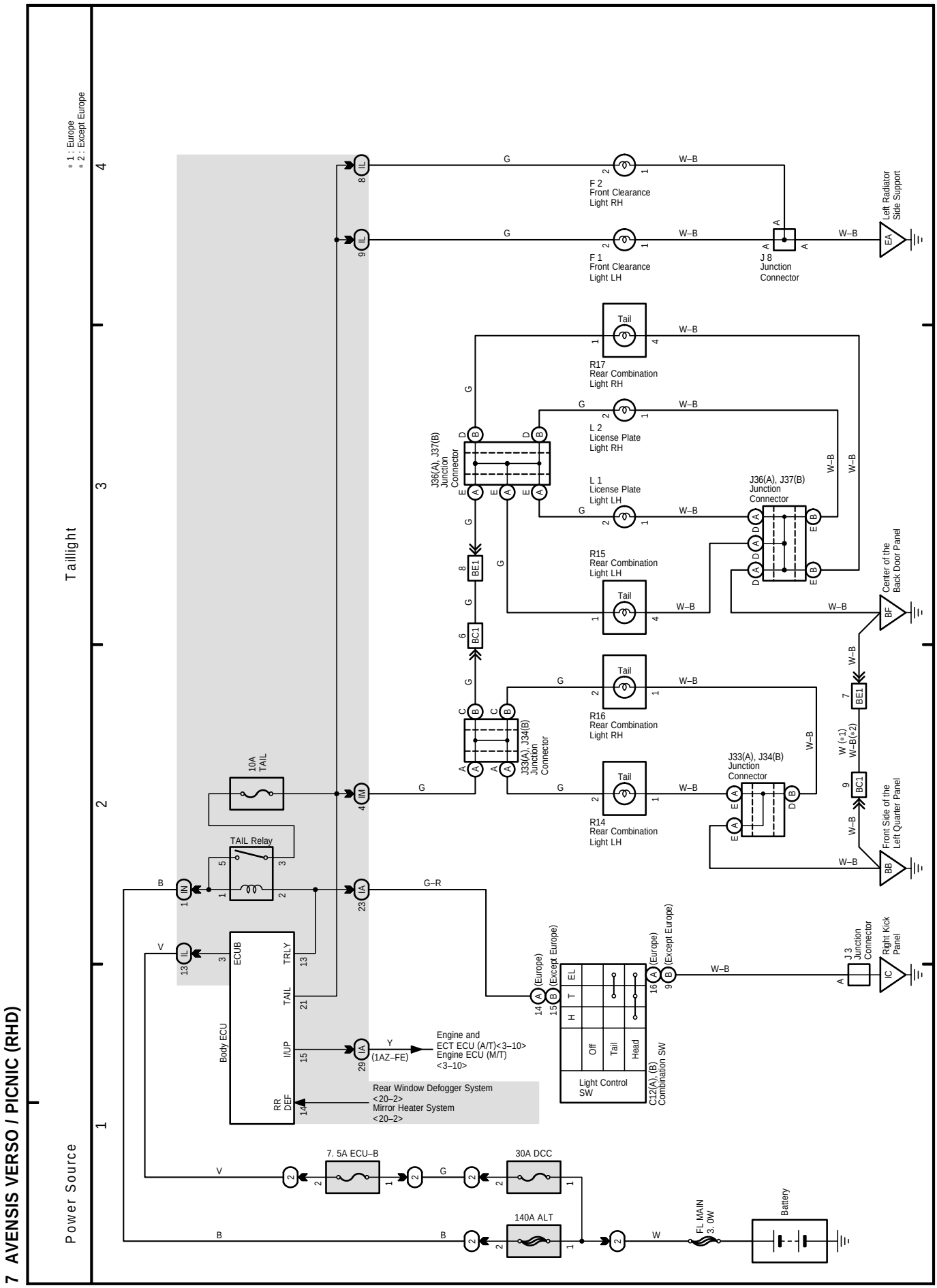


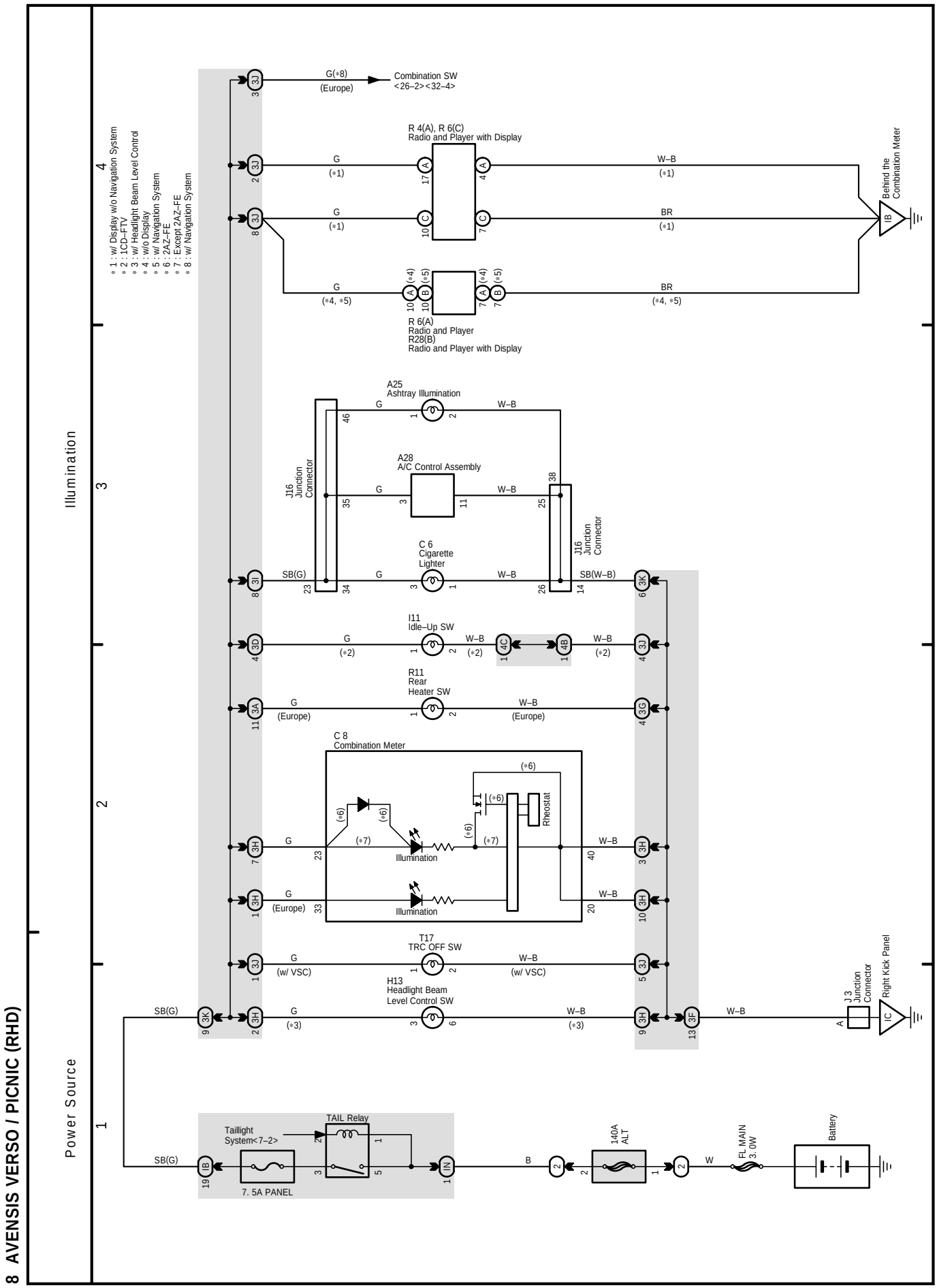

5 AVENSIS VERSO / PICNIC (RHD)
(Cont. next page)
Power Source
ECT and A/T Indicator
1
2
3
4
*1 : 1AZ–FE
*2 : 2AZ–FE
E 1
ECT Solenoid
E 7(A), E 8(B), E 9(C), E10(D), E11(E)
Engine and ECT ECU
T 3
Turbine Speed Sensor
C 4
Counter Gear Speed Sensor
Left Side of Cylinder Block
Intake Side of Cylinder Block
J19
Junction Connector
J22
Junction Connector
Left Kick Panel
Left Radiator Side Support
F19
Fuse Holder
7. 5A MET–IG
S32(A), S33(B)
Short Connector
7. 5A GAUGE
7. 5A ECU–ACC
IG1 Relay
10A IGN
25A AM1
EFI Relay
15A EFI
10A ETCS
30A AM2
140A ALT
I14
Ignition SW
ACC
IG1
ST1
IG2
AM1
AM2
FL MAIN
3. 0W
Battery

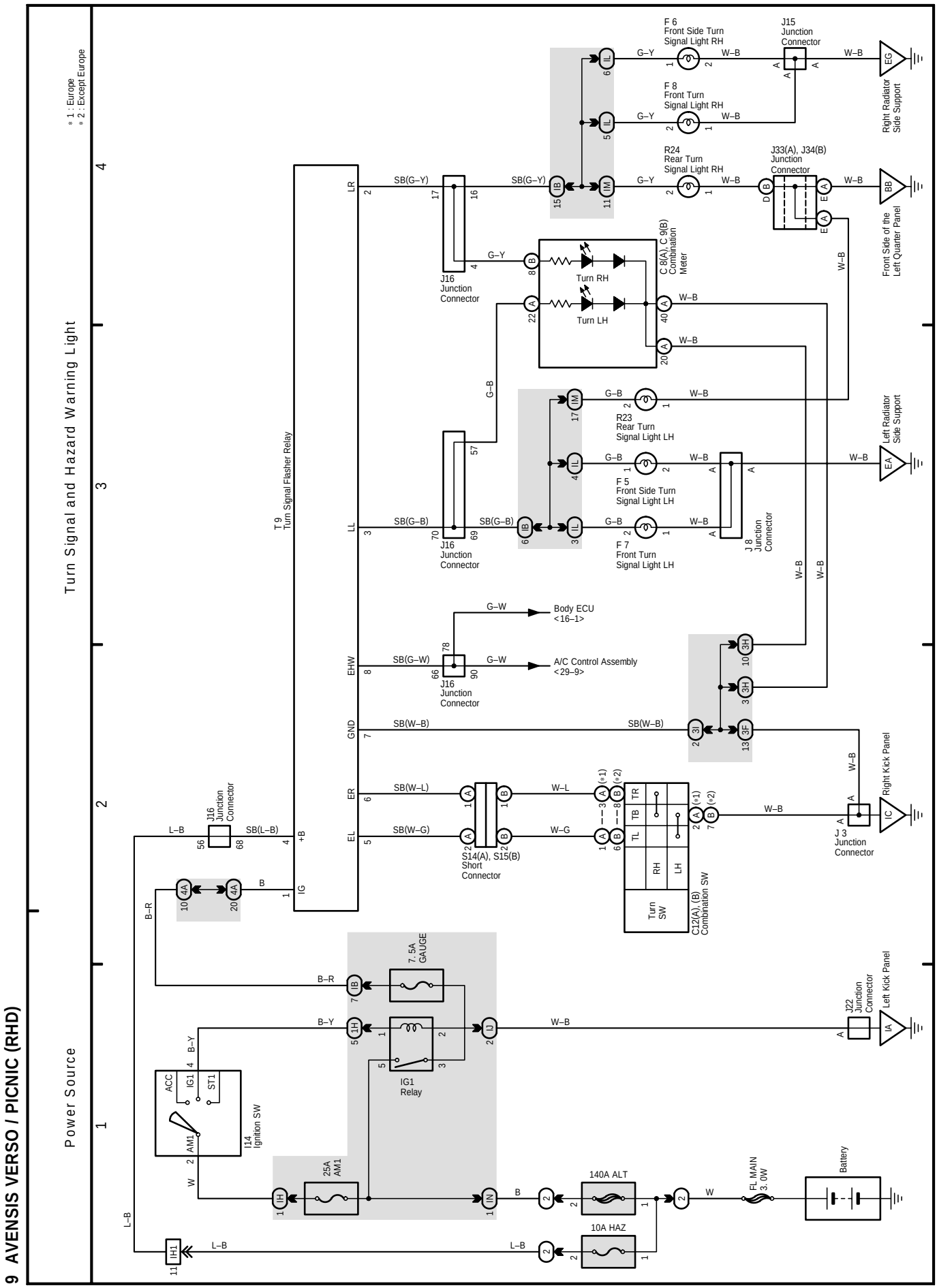
5 AVENSIS VERSO / PICNIC (RHD) (Cont' d)

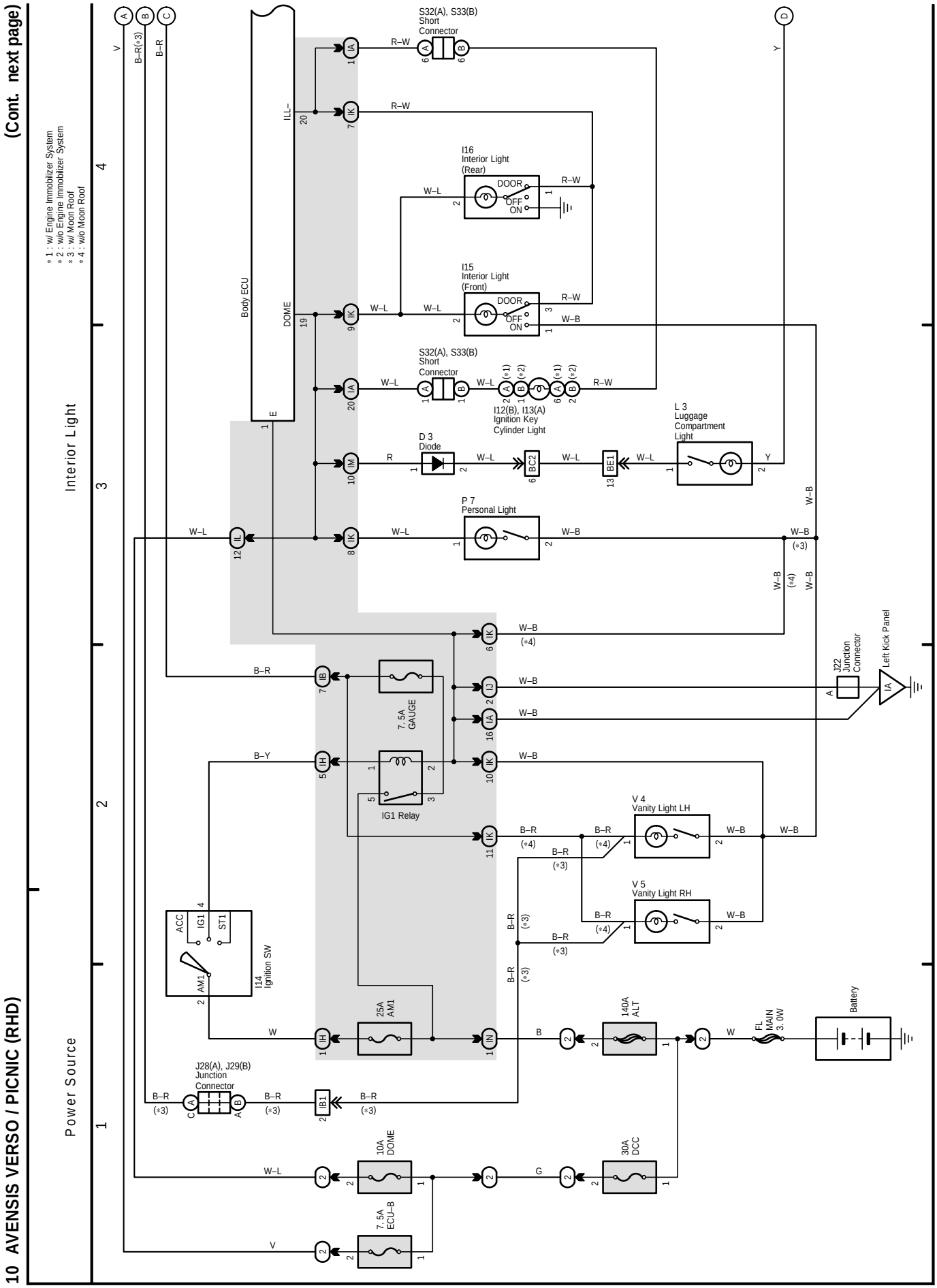


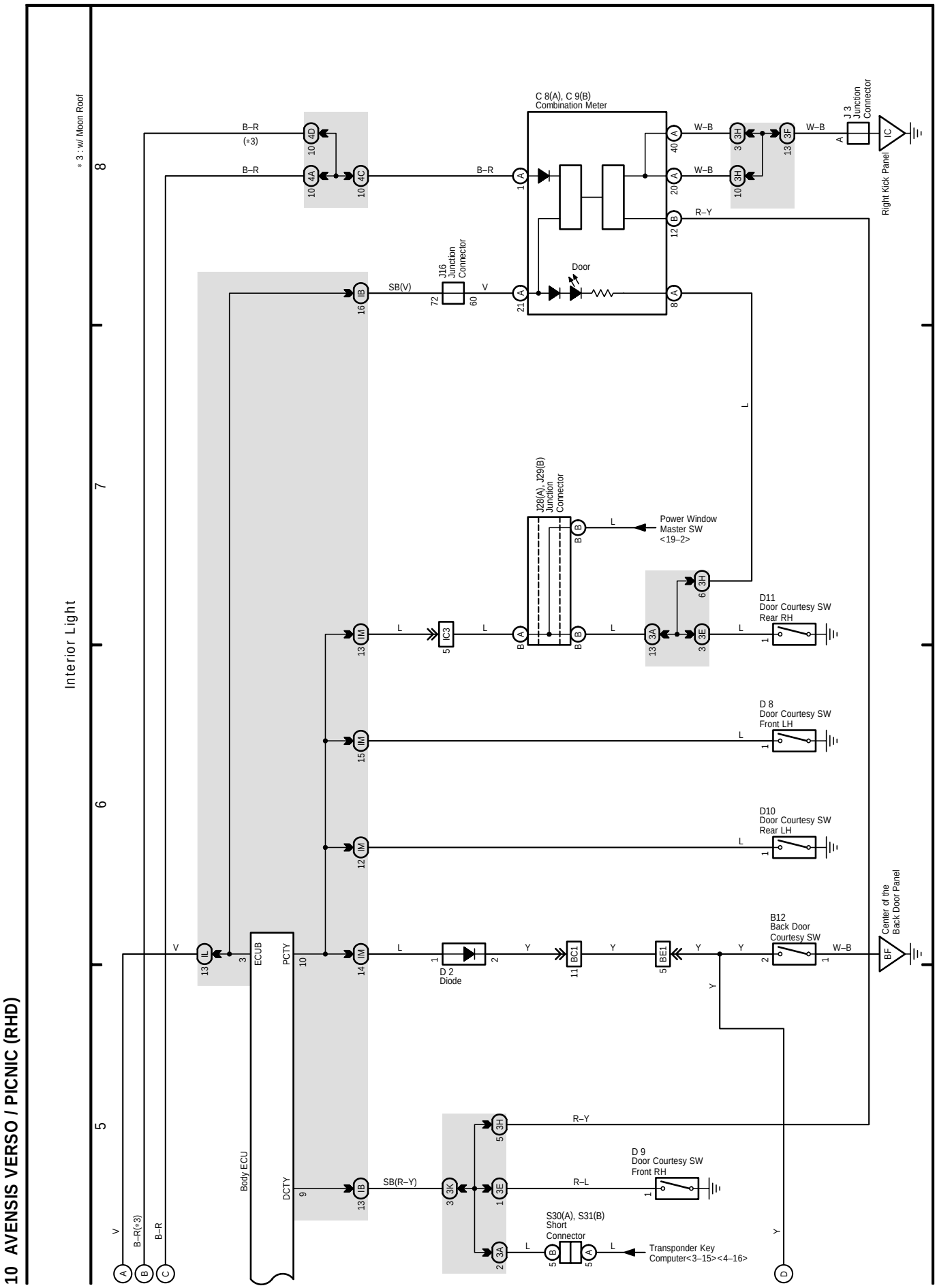

6 AVENSIS VERSO / PICNIC (RHD)
Power Source
Headlight
1
2
3
4
C 8 Combination Meter
High Beam
IH1
21
3
15
R–W
R–Y
15A HEAD RH UPR
15A HEAD LH UPR
15A HEAD RH LWR
15A HEAD LH LWR
H 7 Headlight RH (High)
H 5 Headlight LH (High)
H 8 Headlight RH (Low)
H 6 Headlight LH (Low)
J 9 Junction Connector
J23(A), J24(B) Junction Connector
J15 Junction Connector
J 8 Junction Connector
J 3 Junction Connector
HEAD Relay
B–R
R–B
W–B
R
Y
B
Right Radiator Side Support
Left Radiator Side Support
Right Kick Panel
EB
EG
EA
EF
IC
B10(A) Body ECU
ECUB
HRLY
L/C(H)
IC3
IL
IA
V
G
W
C12(A), (B) Combination SW
(Europe)
(Except Europe)
T
HU
HF
EL
H
Off
Tail
Head
Low
High
Flash
Light Control SW
Dimmer SW
7.5A ECU–B
30A DCC
50A MAIN
FL MAIN 3. 0W
Battery

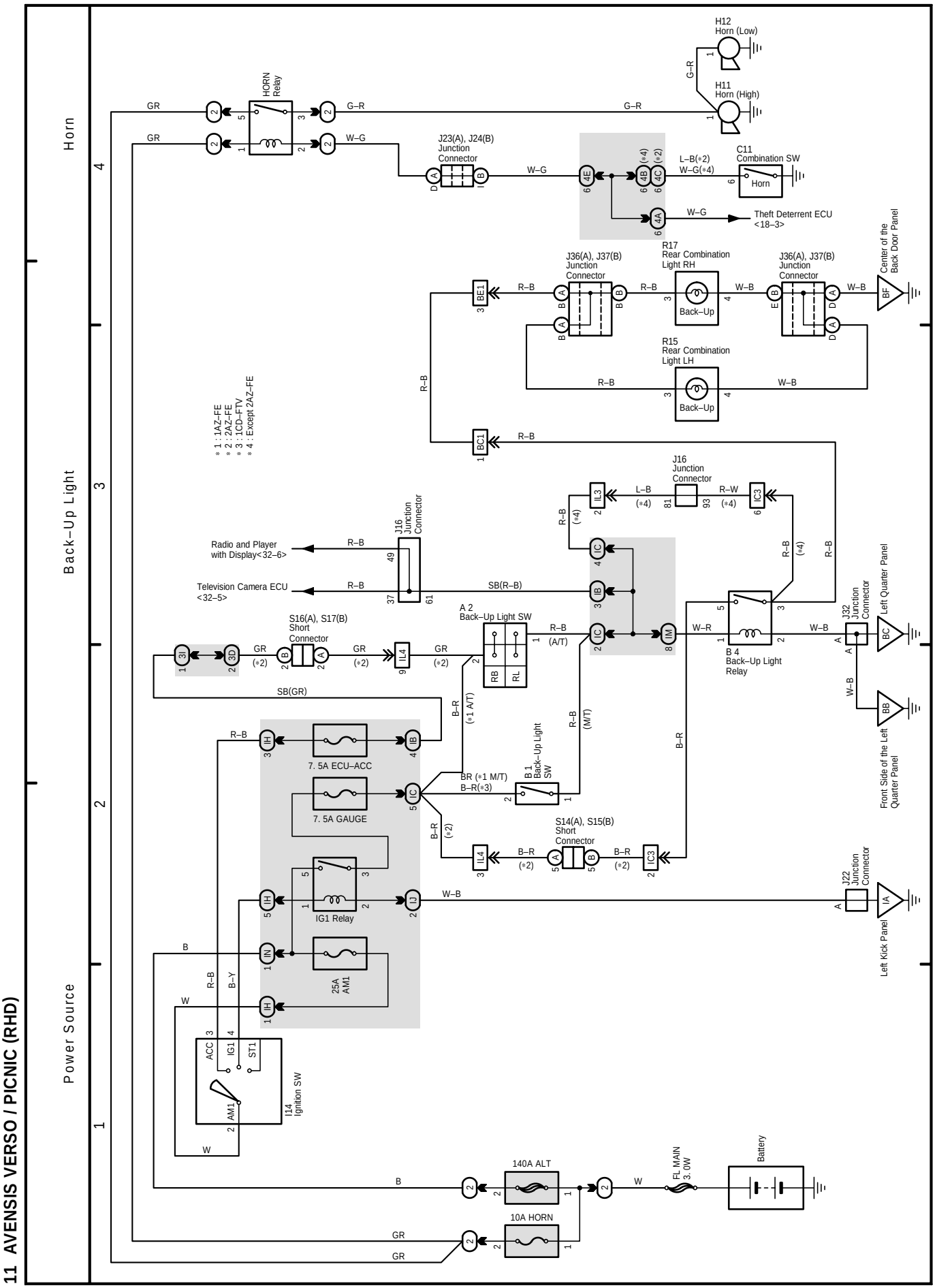

7 AVENSIS VERSO / PICNIC (RHD)
Power Source
Taillight
* 1 : Europe
* 2 : Except Europe
F 2
Front Clearance
Light RH
F 1
Front Clearance
Light LH
J 8
Junction
Connector
Left Radiator
Side Support
R17
Rear Combination
Light RH
L 2
License Plate
Light RH
L 1
License Plate
Light LH
J36(A), J37(B)
Junction
Connector
R15
Rear Combination
Light LH
R16
Rear Combination
Light RH
J33(A), J34(B)
Junction
Connector
R14
Rear Combination
Light LH
Center of the
Back Door Panel
Front Side of the
Left Quarter Panel
10A
TAIL
TAIL Relay
ECUB
Body ECU
TRLY
TAIL
I/UP
RR
DEF
Engine and
ECT ECU (A/T)<3–10>
Engine ECU (M/T)
<3–10>
(1AZ–FE)
Rear Window Defogger System
<20–2>
Mirror Heater System
<20–2>
Light Control
SW
C12(A), (B)
Combination SW
J3
Junction
Connector
Right Kick
Panel
7. 5A ECU–B
30A DCC
140A ALT
FL MAIN
3. 0W
Battery

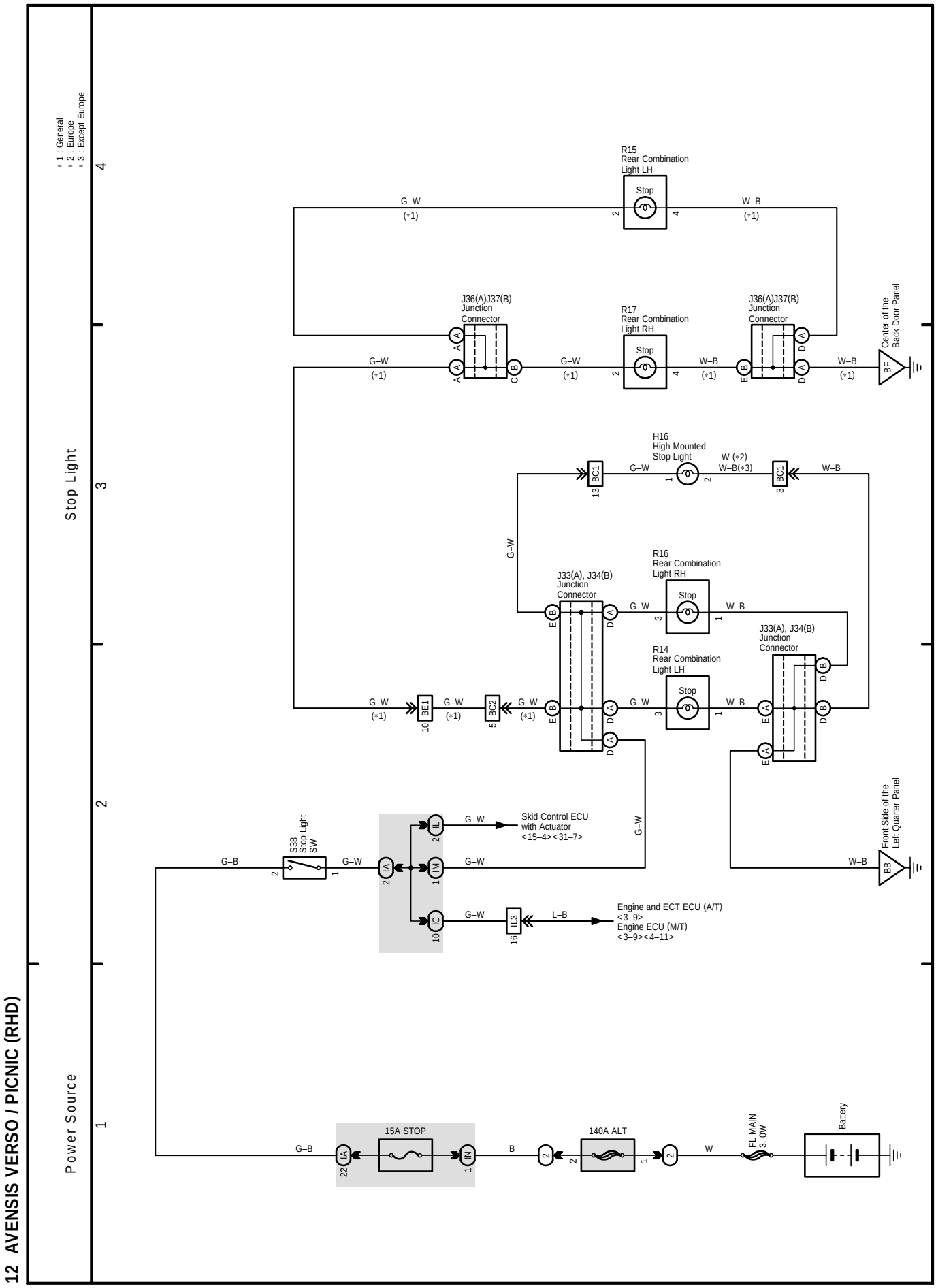

8 AVENSIS VERSO / PICNIC (RHD)
Illumination
Power Source
* 1 : w/ Display w/o Navigation System
* 2 : 1CD–FTV
* 3 : w/ Headlight Beam Level Control
* 4 : w/o Display
* 5 : w/ Navigation System
* 6 : 2AZ–FE
* 7 : Except 2AZ–FE
* 8 : w/ Navigation System
G(*8)
(Europe)
Combination SW
<26–2><32–4>
R 4(A), R 6(C)
Radio and Player with Display
Behind the Combination Meter
R 6(A)
Radio and Player
R28(B)
Radio and Player with Display
A25
Ashtray Illumination
A28
A/C Control Assembly
J16
Junction Connector
C 6
Cigarette Lighter
I11
Idle–Up SW
R11
Rear Heater SW
C 8
Combination Meter
Rheostat
Illumination
T17
TRC OFF SW
H13
Headlight Beam Level Control SW
J 3
Junction Connector
Right Kick Panel
TAIL Relay
Taillight System<7–2>
7. 5A PANEL
140A ALT
FL MAIN 3. 0W
Battery

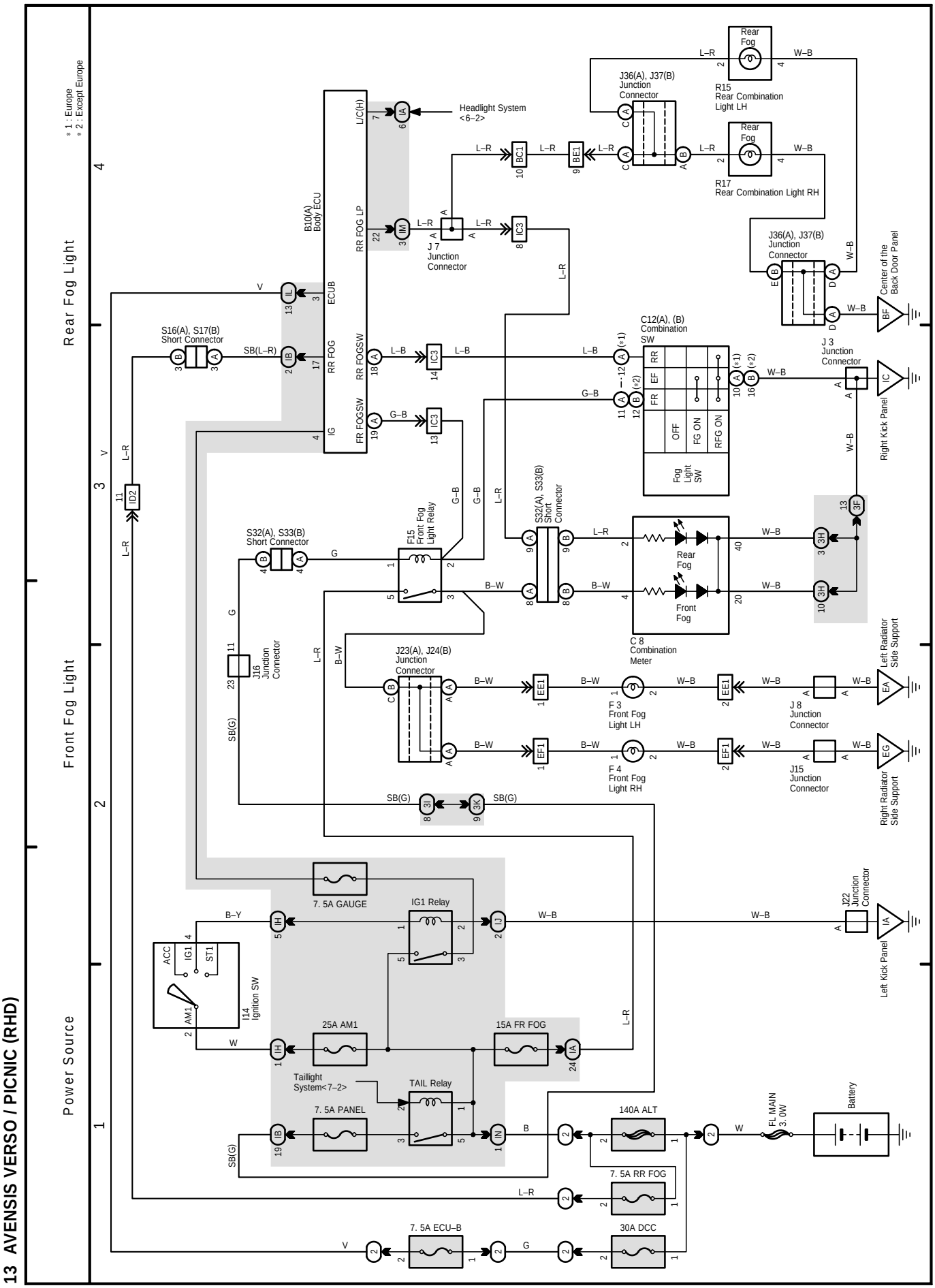

9 AVENSIS VERSO / PICNIC (RHD)
Turn Signal and Hazard Warning Light
Power Source
* 1 : Europe
* 2 : Except Europe
F 6
Front Side Turn Signal Light RH
F 8
Front Turn Signal Light RH
J15 Junction Connector
Right Radiator Side Support
R24
Rear Turn Signal Light RH
J33(A), J34(B) Junction Connector
Front Side of the Left Quarter Panel
J16 Junction Connector
C 8(A), C 9(B) Combination Meter
Turn RH
Turn LH
R23
Rear Turn Signal Light LH
Left Radiator Side Support
F 5
Front Side Turn Signal Light LH
F 7
Front Turn Signal Light LH
J 8 Junction Connector
T 9
Turn Signal Flasher Relay
Body ECU
<16–1>
A/C Control Assembly
<29–9>
S14(A), S15(B) Short Connector
C12(A), (B) Combination SW
Turn SW
J 3 Junction Connector
Right Kick Panel
J22 Junction Connector
Left Kick Panel
7. 5A GAUGE
IG1 Relay
I14 Ignition SW
ACC
IG1
ST1
25A AM1
140A ALT
10A HAZ
FL MAIN 3. 0W
Battery

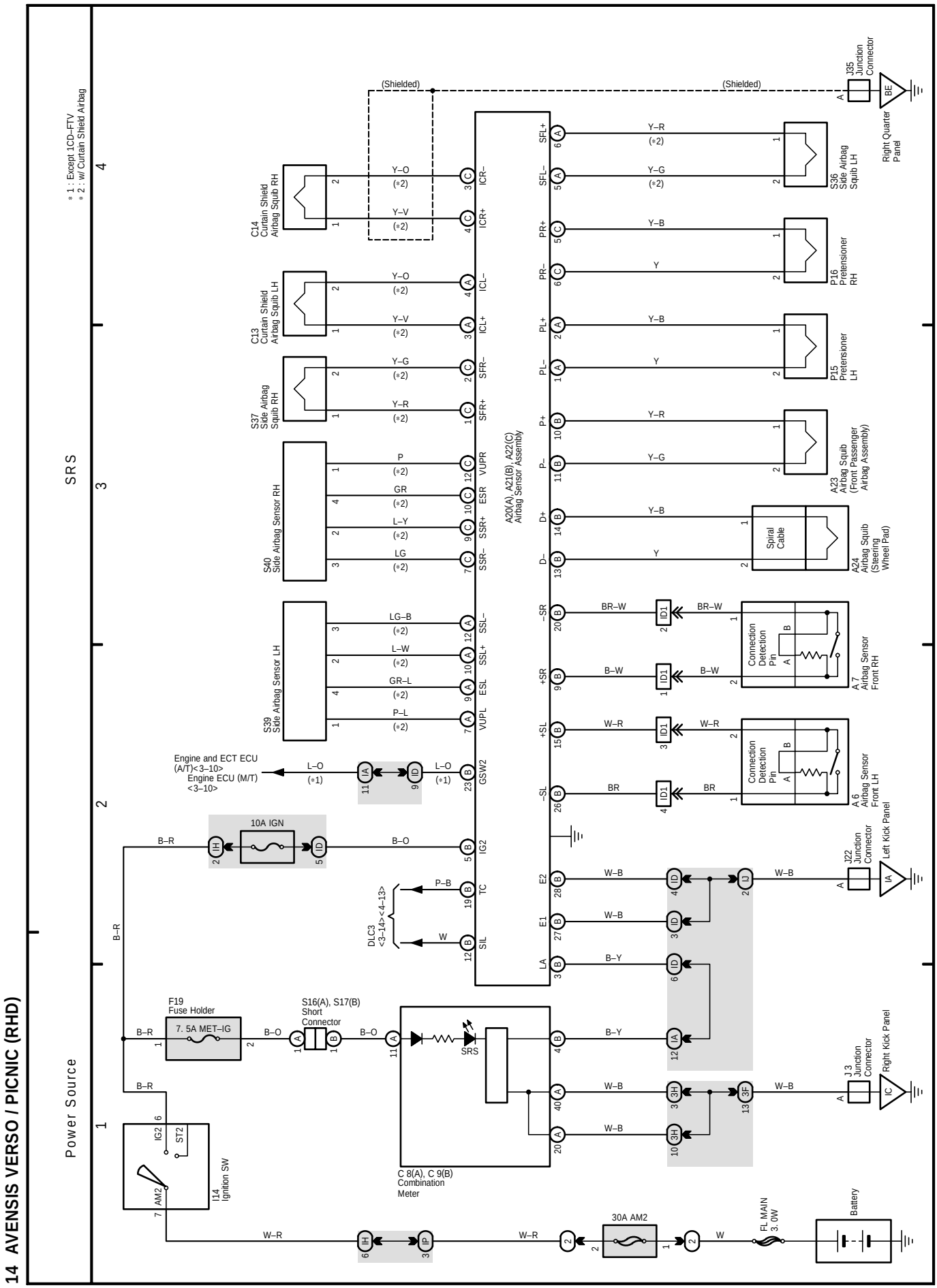

10 AVENSIS VERSO / PICNIC (RHD)
(Cont. next page)
Power Source
Interior Light
1
2
3
4
＊1 : w/ Engine Immobilizer System
＊2 : w/o Engine Immobilizer System
＊3 : w/ Moon Roof
＊4 : w/o Moon Roof
Body ECU
ILL–
DOME
E
S32(A), S33(B) Short Connector
I16 Interior Light (Rear)
I15 Interior Light (Front)
DOOR
OFF
ON
I12(B), I13(A) Ignition Key Cylinder Light
L 3 Luggage Compartment Light
D 3 Diode
P 7 Personal Light
J22 Junction Connector
Left Kick Panel
7.5A GAUGE
IG1 Relay
I14 Ignition SW
ACC
IG1
ST1
AM1
V 4 Vanity Light LH
V 5 Vanity Light RH
25A AM1
140A ALT
FL MAIN 3.0W
Battery
J28(A), J29(B) Junction Connector
10A DOME
30A DCC
7.5A ECU–B

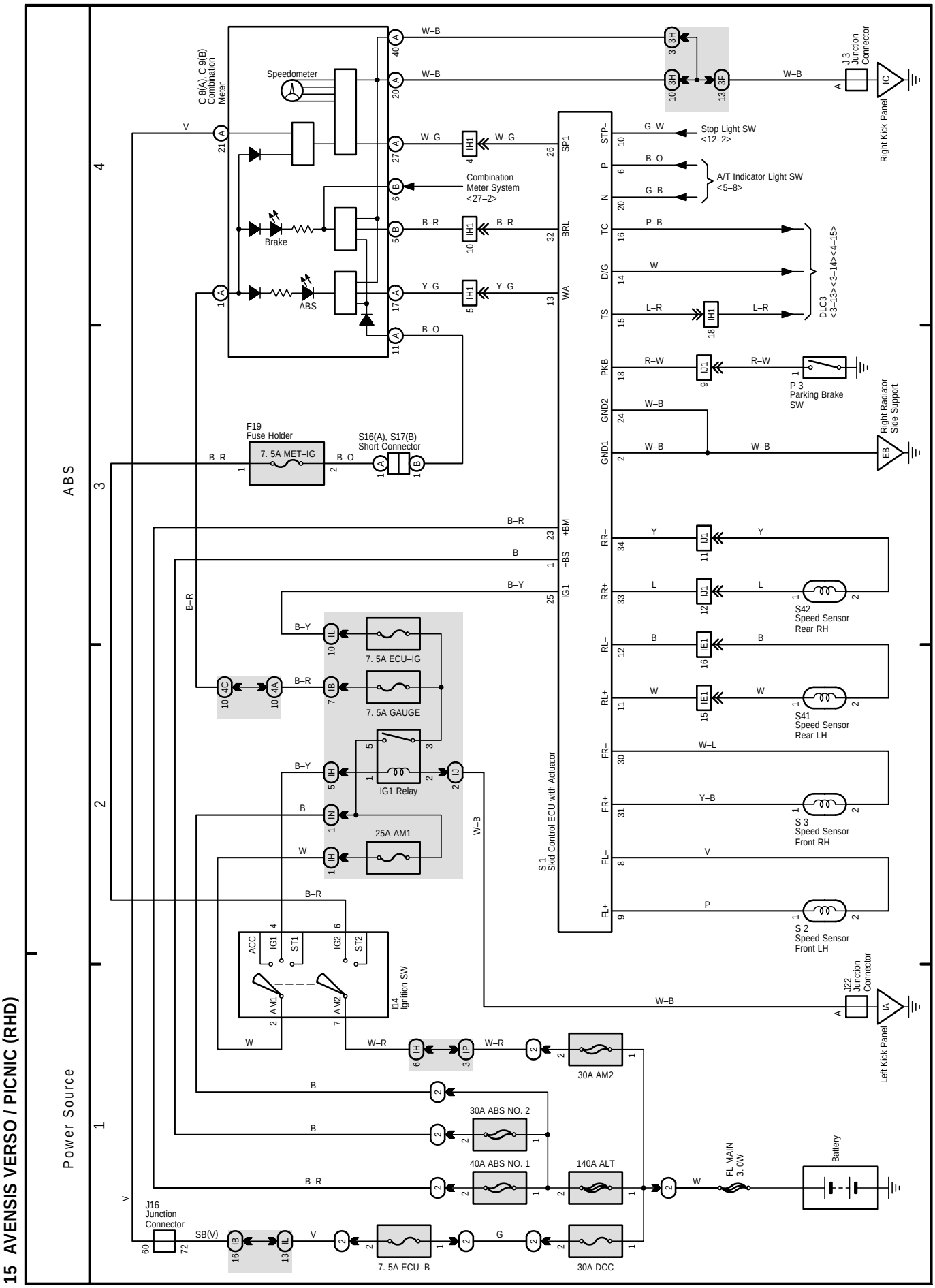

10 AVENSIS VERSO / PICNIC (RHD)
Interior Light
* 3 : w/ Moon Roof
C 8(A), C 9(B)
Combination Meter
J 3
Junction
Connector
Right Kick Panel
J16
Junction
Connector
Door
J28(A), J29(B)
Junction
Connector
Power Window
Master SW
<19–2>
D11
Door Courtesy SW
Rear RH
D 8
Door Courtesy SW
Front LH
D10
Door Courtesy SW
Rear LH
B12
Back Door
Courtesy SW
Center of the
Back Door Panel
D 2
Diode
ECUB
Body ECU
D 9
Door Courtesy SW
Front RH
S30(A), S31(B)
Short
Connector
Transponder Key
Computer<3–15><4–16>
B–R
(*3)
W–B
R–Y
SB(V)
L
Y
V
R–L
SB(R–Y)
B–R(*3)

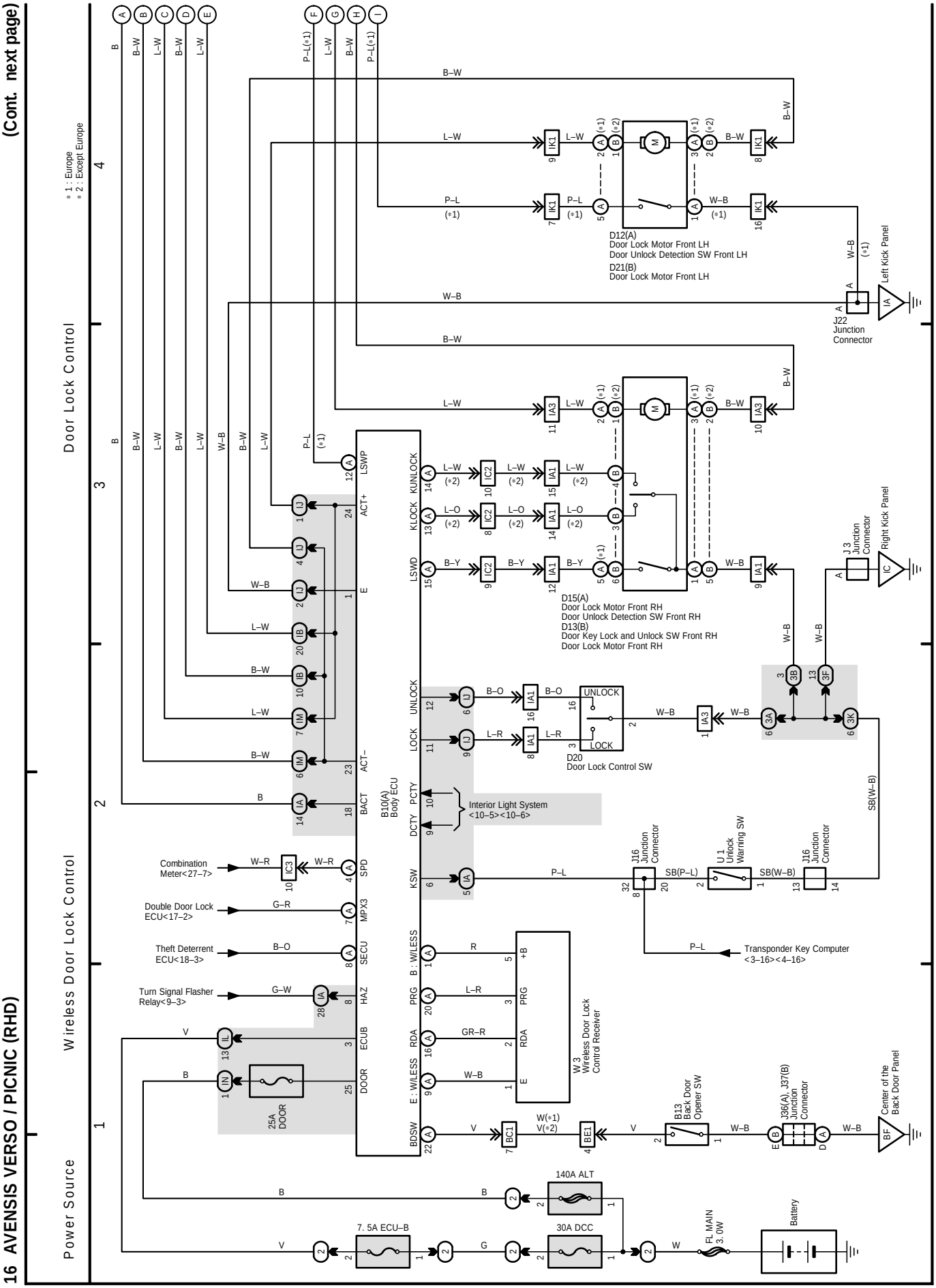

11 AVENSIS VERSO / PICNIC (RHD)
Horn
Back–Up Light
Power Source
H12 Horn (Low)
H11 Horn (High)
HORN Relay
C11 Combination SW
Horn
Theft Deterrent ECU <18–3>
J23(A), J24(B) Junction Connector
J36(A), J37(B) Junction Connector
R17 Rear Combination Light RH
R15 Rear Combination Light LH
Back–Up
Center of the Back Door Panel
J16 Junction Connector
Radio and Player with Display<32–6>
Television Camera ECU <32–5>
S16(A), S17(B) Short Connector
A 2 Back–Up Light SW
B 4 Back–Up Light Relay
B 1 Back–Up Light SW
S14(A), S15(B) Short Connector
J32 Junction Connector
Left Quarter Panel
Front Side of the Left Quarter Panel
J22 Junction Connector
Left Kick Panel
7. 5A ECU–ACC
7. 5A GAUGE
IG1 Relay
25A AM1
I14 Ignition SW
140A ALT
10A HORN
FL MAIN 3. 0W
Battery
* 1 : 1AZ–FE
* 2 : 2AZ–FE
* 3 : 1CD–FTV
* 4 : Except 2AZ–FE


12 AVENSIS VERSO / PICNIC (RHD)
Power Source
Stop Light
1
2
3
4
* 1 : General
* 2 : Europe
* 3 : Except Europe
R15
Rear Combination
Light LH
Stop
G–W
(*1)
W–B
(*1)
J36(A)J37(B)
Junction
Connector
R17
Rear Combination
Light RH
Center of the
Back Door Panel
BF
H16
High Mounted
Stop Light
W (*2)
W–B(*3)
BC1
R16
Rear Combination
Light RH
J33(A), J34(B)
Junction
Connector
R14
Rear Combination
Light LH
BE1
BC2
S38
Stop Light
SW
Skid Control ECU
with Actuator
<15–4><31–7>
Front Side of the
Left Quarter Panel
BB
IL
IA
IM
IC
IL3
L–B
Engine and ECT ECU (A/T)
<3–9>
Engine ECU (M/T)
<3–9><4–11>
15A STOP
140A ALT
FL MAIN
3. 0W
Battery
G–B
B
W

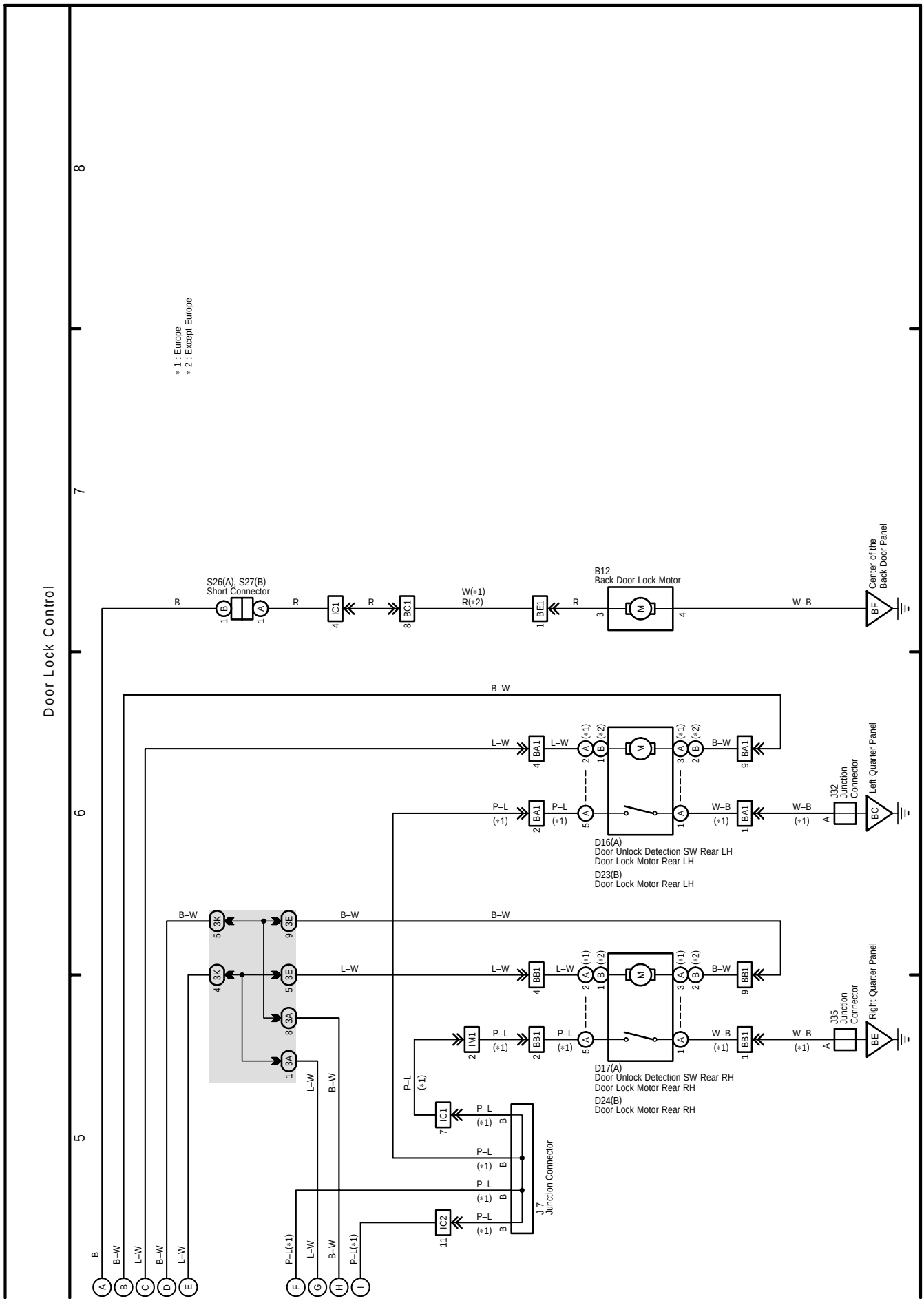

13 AVENSIS VERSO / PICNIC (RHD)
Power Source
Front Fog Light
Rear Fog Light
* 1 : Europe
* 2 : Except Europe
B10(A) Body ECU
Headlight System <6–2>
J36(A), J37(B) Junction Connector
R15 Rear Combination Light LH
R17 Rear Combination Light RH
J 7 Junction Connector
S16(A), S17(B) Short Connector
C12(A), (B) Combination SW
Fog Light SW
J 3 Junction Connector
Center of the Back Door Panel
Right Kick Panel
S32(A), S33(B) Short Connector
F15 Front Fog Light Relay
C 8 Combination Meter
J16 Junction Connector
J23(A), J24(B) Junction Connector
F 3 Front Fog Light LH
F 4 Front Fog Light RH
J 8 Junction Connector
J15 Junction Connector
Left Radiator Side Support
Right Radiator Side Support
J22 Junction Connector
Left Kick Panel
7. 5A GAUGE
IG1 Relay
I14 Ignition SW
25A AM1
15A FR FOG
Taillight System<7–2>
TAIL Relay
7. 5A PANEL
140A ALT
FL MAIN 3. 0W
Battery
7. 5A RR FOG
7. 5A ECU–B
30A DCC

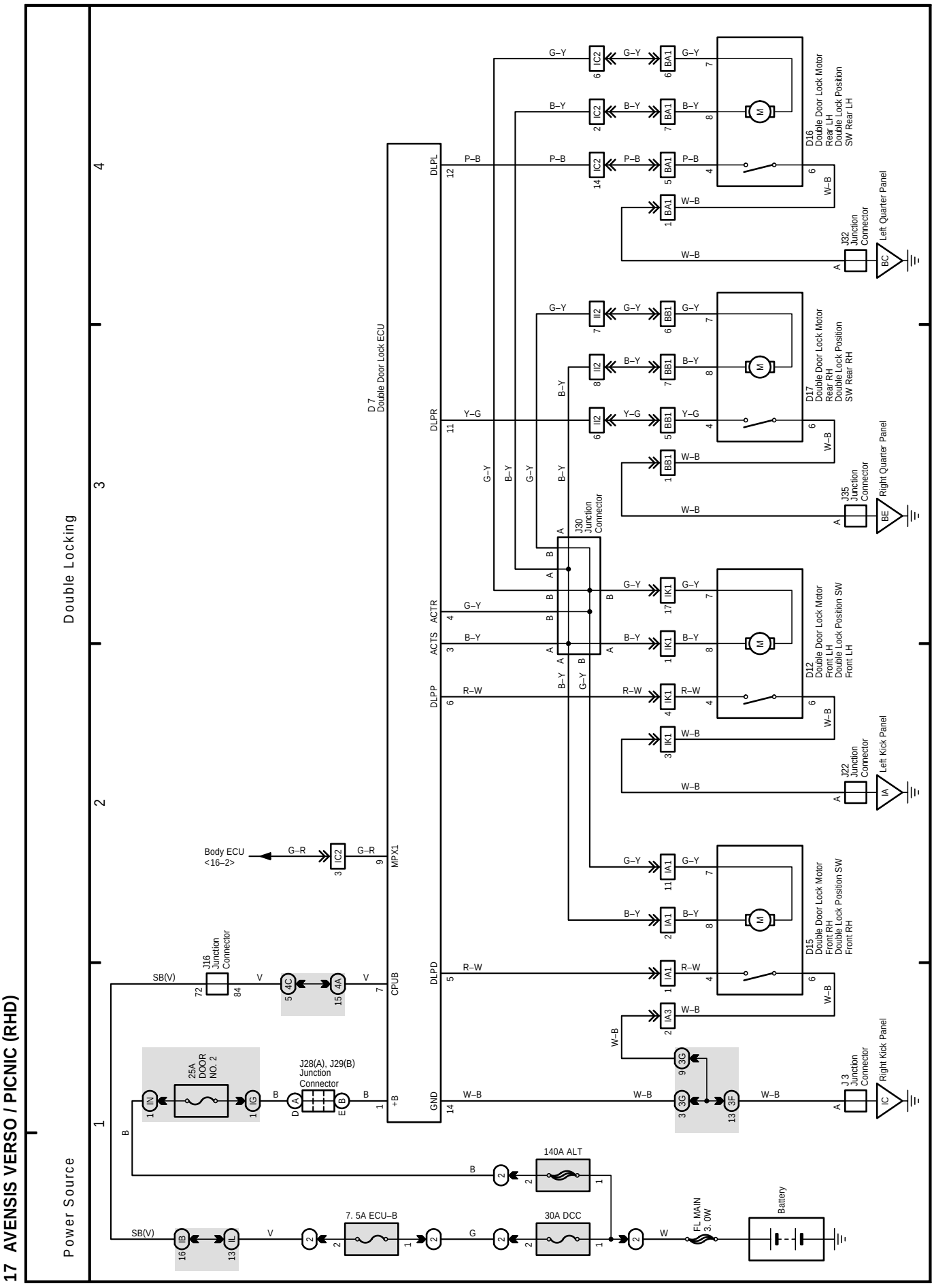

14 AVENSIS VERSO / PICNIC (RHD)
Power Source
SRS
* 1 : Except 1CD–FTV
* 2 : w/ Curtain Shield Airbag
(Shielded)
(Shielded)
J35 Junction Connector
Right Quarter Panel
S36 Side Airbag Squib LH
P16 Pretensioner RH
P15 Pretensioner LH
A23 Airbag Squib (Front Passenger Airbag Assembly)
A24 Airbag Squib (Steering Wheel Pad)
Spiral Cable
A 7 Airbag Sensor Front RH
A 6 Airbag Sensor Front LH
Connection Detection Pin
J22 Junction Connector
Left Kick Panel
J 3 Junction Connector
Right Kick Panel
C14 Curtain Shield Airbag Squib RH
C13 Curtain Shield Airbag Squib LH
S37 Side Airbag Squib RH
S40 Side Airbag Sensor RH
S39 Side Airbag Sensor LH
A20(A), A21(B), A22(C) Airbag Sensor Assembly
Engine and ECT ECU (A/T)<3–10> Engine ECU (M/T) <3–10>
10A IGN
F19 Fuse Holder
7. 5A MET–IG
S16(A), S17(B) Short Connector
DLC3 <3–14><4–13>
C 8(A), C 9(B) Combination Meter
SRS
I14 Ignition SW
30A AM2
FL MAIN 3. 0W
Battery
Y–O (*2)
Y–V (*2)
Y–G (*2)
Y–R (*2)
P (*2)
GR (*2)
L–Y (*2)
LG (*2)
LG–B (*2)
L–W (*2)
GR–L (*2)
P–L (*2)
L–O (*1)
B–R
B–O
P–B
W
W–B
B–Y
BR–W
B–W
W–R
BR
Y–B
Y
Y–R
Y–G

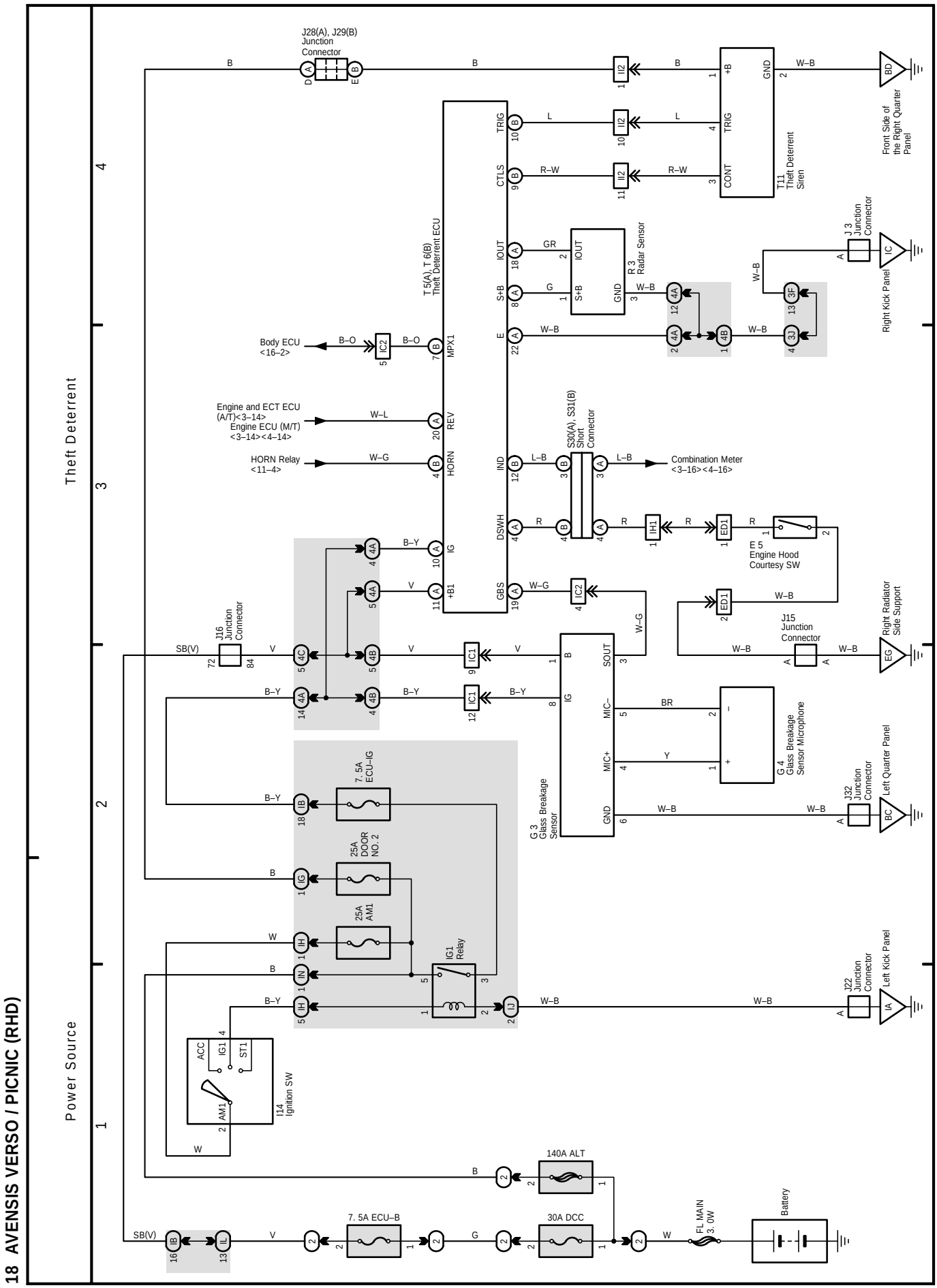

15 AVENSIS VERSO / PICNIC (RHD)
Power Source
ABS
C 8(A), C 9(B) Combination Meter
Speedometer
Brake
ABS
Combination Meter System <27–2>
Stop Light SW <12–2>
A/T Indicator Light SW <5–8>
DLC3 <3–13><3–14><4–15>
P 3 Parking Brake SW
Right Radiator Side Support
J 3 Junction Connector
Right Kick Panel
F19 Fuse Holder
7. 5A MET–IG
S16(A), S17(B) Short Connector
7. 5A ECU–IG
7. 5A GAUGE
IG1 Relay
25A AM1
30A AM2
30A ABS NO. 2
40A ABS NO. 1
140A ALT
7. 5A ECU–B
30A DCC
I14 Ignition SW
J16 Junction Connector
J22 Junction Connector
Left Kick Panel
Battery
FL MAIN 3. 0W
S 1 Skid Control ECU with Actuator
S42 Speed Sensor Rear RH
S41 Speed Sensor Rear LH
S 3 Speed Sensor Front RH
S 2 Speed Sensor Front LH

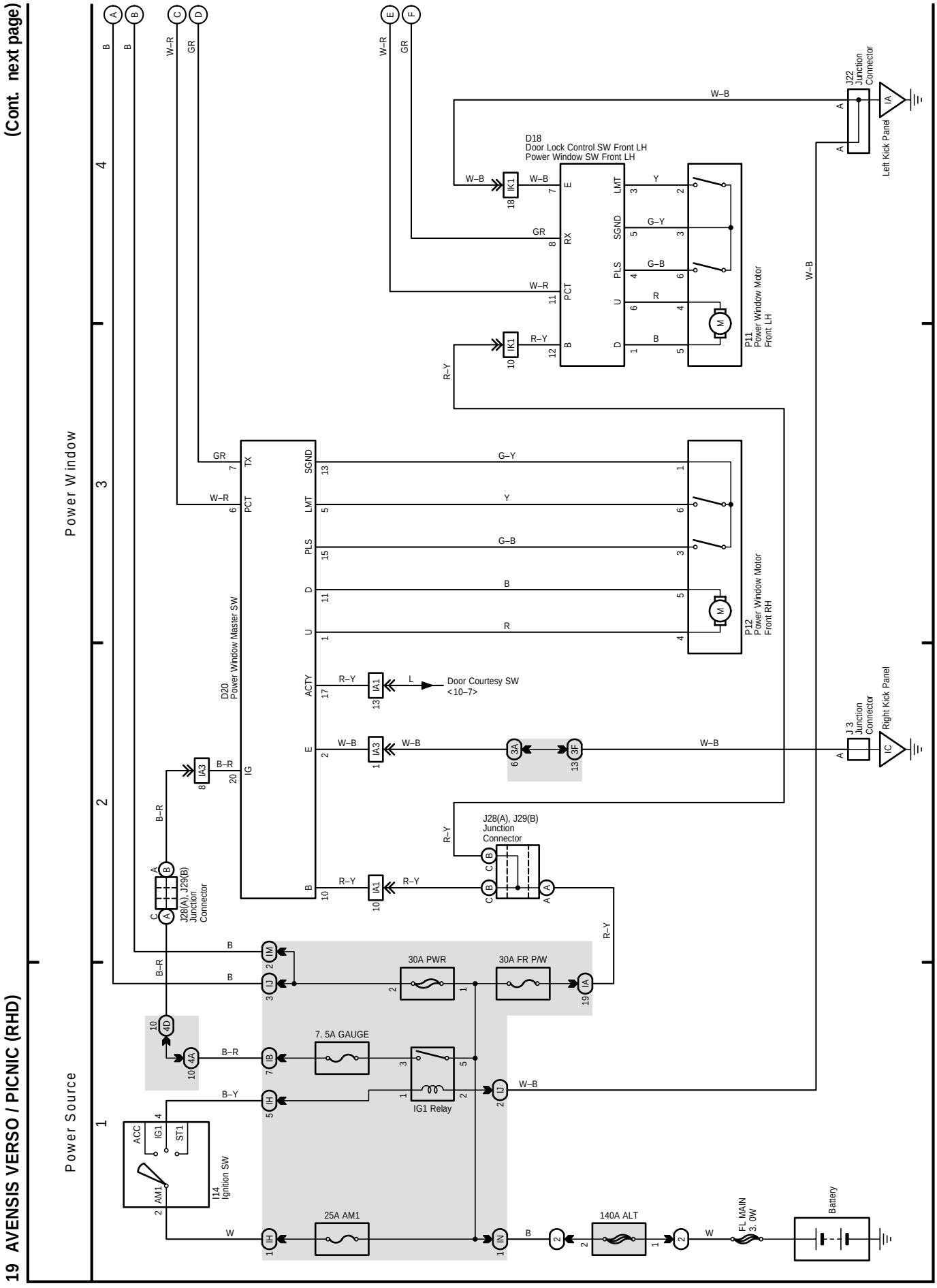

16 AVENSIS VERSO / PICNIC (RHD)
(Cont. next page)
Power Source
Wireless Door Lock Control
Door Lock Control
* 1 : Europe
* 2 : Except Europe
B10(A)
Body ECU
W-3
Wireless Door Lock Control Receiver
D12(A)
Door Lock Motor Front LH
Door Unlock Detection SW Front LH
D21(B)
Door Lock Motor Front LH
D15(A)
Door Lock Motor Front RH
Door Unlock Detection SW Front RH
D13(B)
Door Key Lock and Unlock SW Front RH
Door Lock Motor Front RH
D20
Door Lock Control SW
J22
Junction
Connector
J3
Junction
Connector
J16
Junction
Connector
J36(A), J37(B)
Junction
Connector
Left Kick Panel
Right Kick Panel
Center of the
Back Door Panel
B13
Back Door
Opener SW
U1
Unlock
Warning SW
Interior Light System
<10–5><10–6>
Transponder Key Computer
<3–16><4–16>
Combination
Meter<27–7>
Double Door Lock
ECU<17–2>
Theft Deterrent
ECU<18–3>
Turn Signal Flasher
Relay<9–3>
25A
DOOR
140A ALT
7. 5A ECU–B
30A DCC
FL MAIN
3. 0W
Battery

16 AVENSIS VERSO / PICNIC (RHD) (Cont' d)

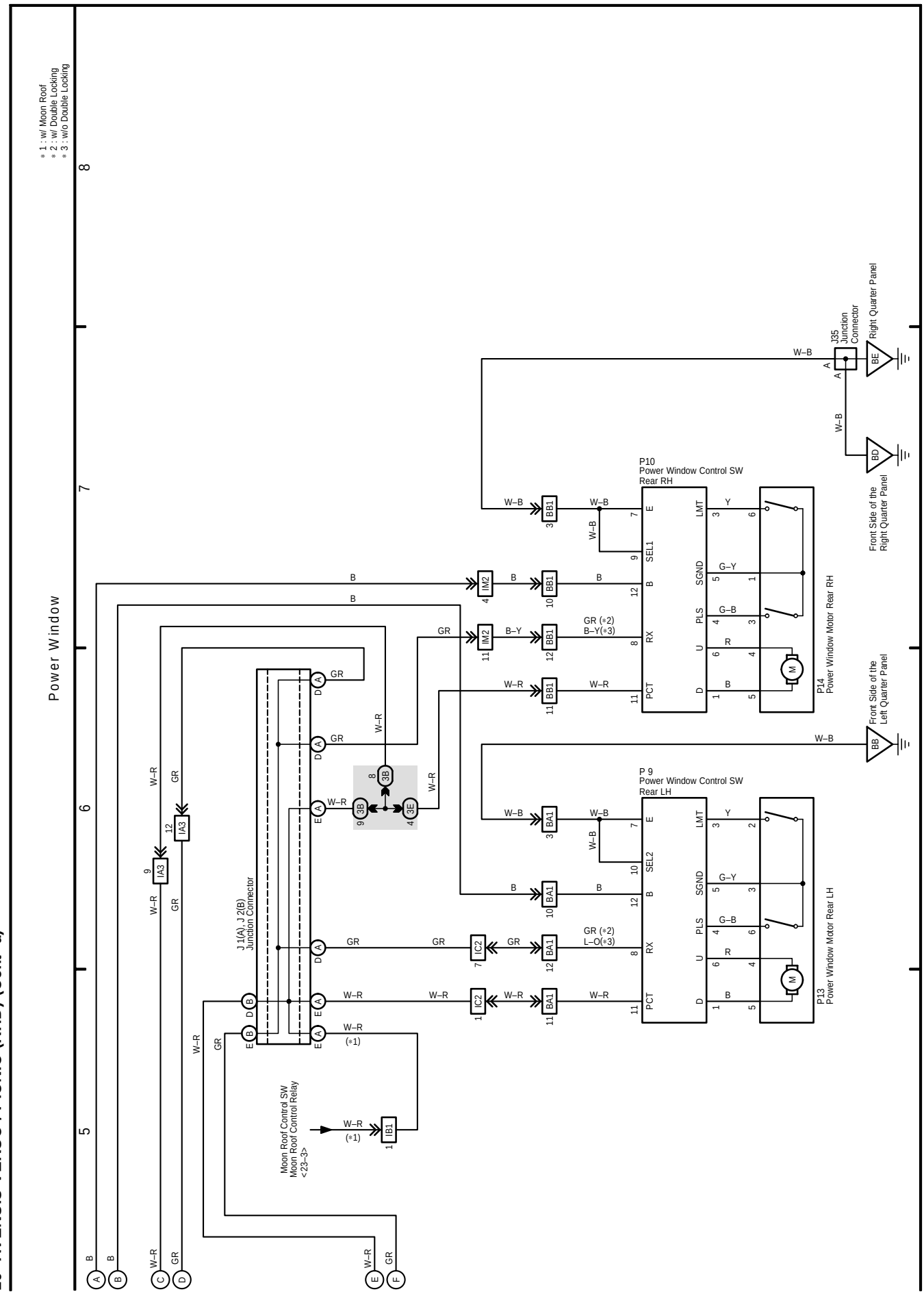


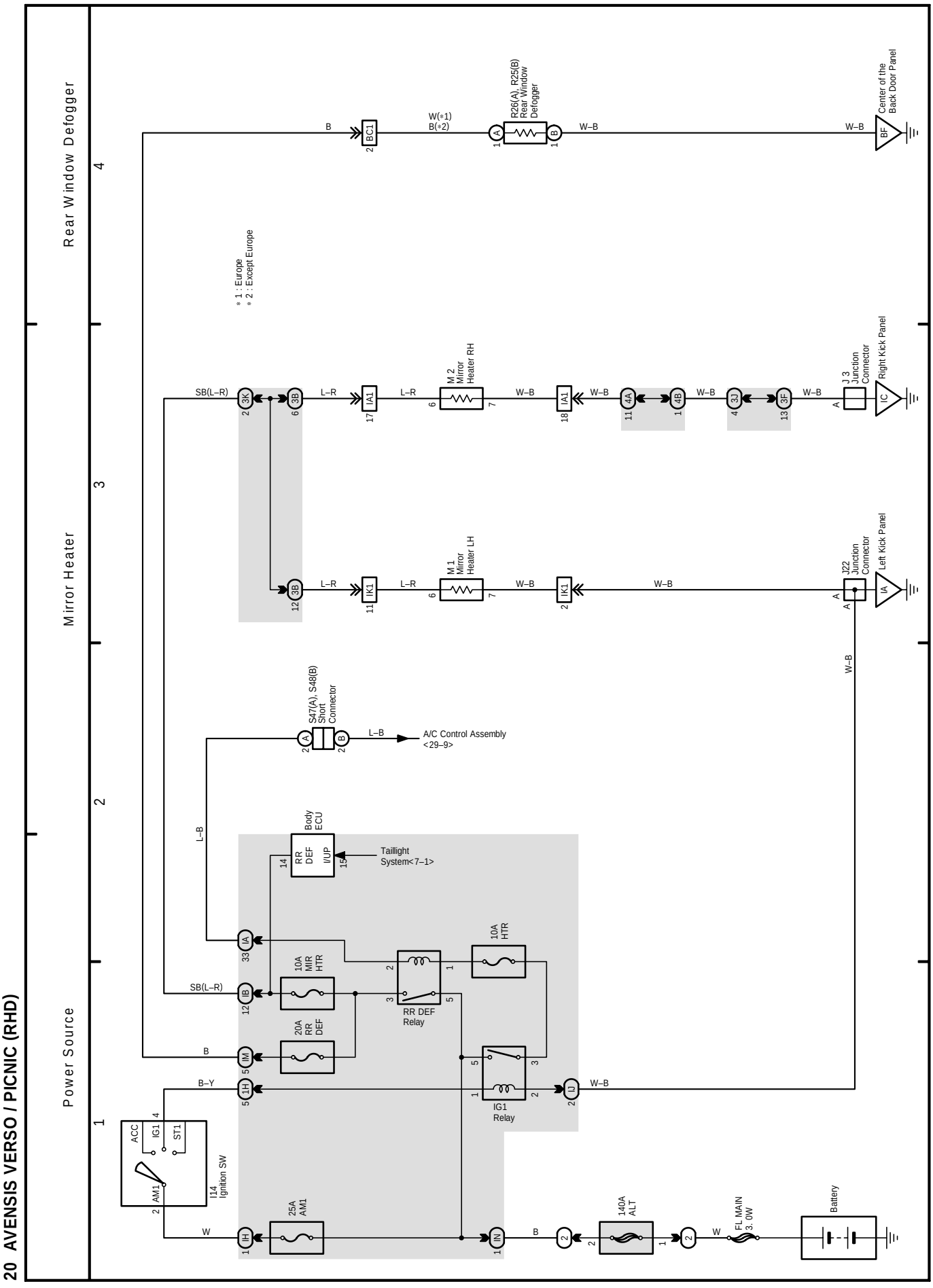

17 AVENSIS VERSO / PICNIC (RHD)
Power Source
Double Locking
1
2
3
4
Battery
FL MAIN
3. 0W
140A ALT
30A DCC
7. 5A ECU–B
25A
DOOR
NO. 2
J28(A), J29(B)
Junction
Connector
J16
Junction
Connector
Body ECU
<16–2>
D 7
Double Door Lock ECU
J30
Junction
Connector
D16
Double Door Lock Motor
Rear LH
Double Lock Position
SW Rear LH
D17
Double Door Lock Motor
Rear RH
Double Lock Position
SW Rear RH
D12
Double Door Lock Motor
Front LH
Double Lock Position SW
Front LH
D15
Double Door Lock Motor
Front RH
Double Lock Position SW
Front RH
J32
Junction
Connector
Left Quarter Panel
J35
Junction
Connector
Right Quarter Panel
J22
Junction
Connector
Left Kick Panel
J 3
Junction
Connector
Right Kick Panel
DLPL
DLPR
ACTR
ACTS
DLPP
DLPD
GND
+B
MPX1
CPUB
P–B
Y–G
G–Y
B–Y
R–W
W–B
SB(V)
G–R
B
V
G
W

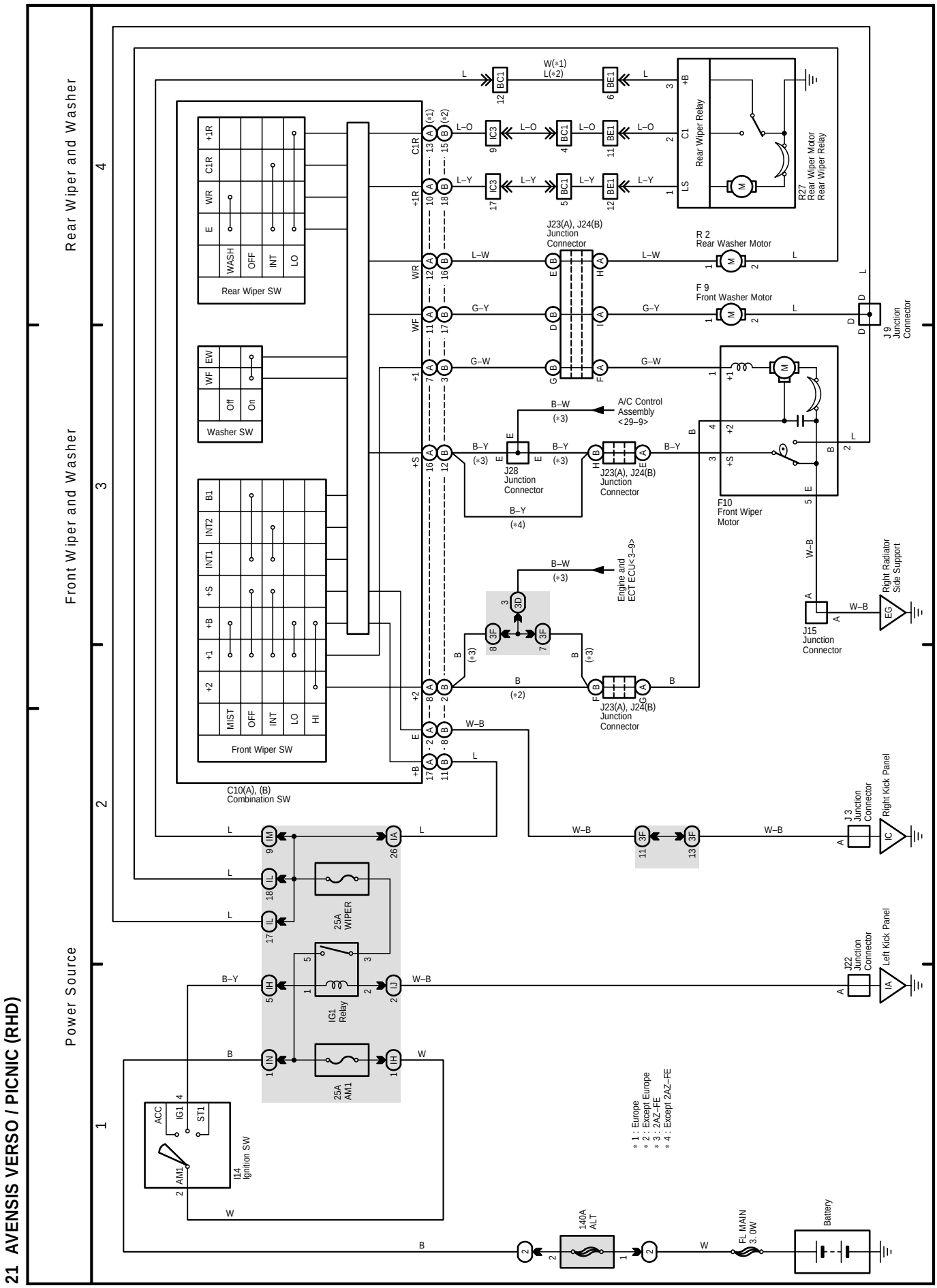

18 AVENSIS VERSO / PICNIC (RHD)
Theft Deterrent
Power Source
J28(A), J29(B) Junction Connector
T11 Theft Deterrent Siren
Front Side of the Right Quarter Panel
R 3 Radar Sensor
J 3 Junction Connector
Right Kick Panel
T 5(A), T 6(B) Theft Deterrent ECU
Body ECU <16–2>
Engine and ECT ECU (A/T)<3–14> Engine ECU (M/T) <3–14><4–14>
HORN Relay <11–4>
S30(A), S31(B) Short Connector
Combination Meter <3–16><4–16>
E 5 Engine Hood Courtesy SW
J16 Junction Connector
J15 Junction Connector
Right Radiator Side Support
G 3 Glass Breakage Sensor
G 4 Glass Breakage Sensor Microphone
J32 Junction Connector
Left Quarter Panel
J22 Junction Connector
Left Kick Panel
7. 5A ECU–IG
25A DOOR NO. 2
25A AM1
IG1 Relay
I14 Ignition SW
140A ALT
7. 5A ECU–B
30A DCC
FL MAIN 3. 0W
Battery

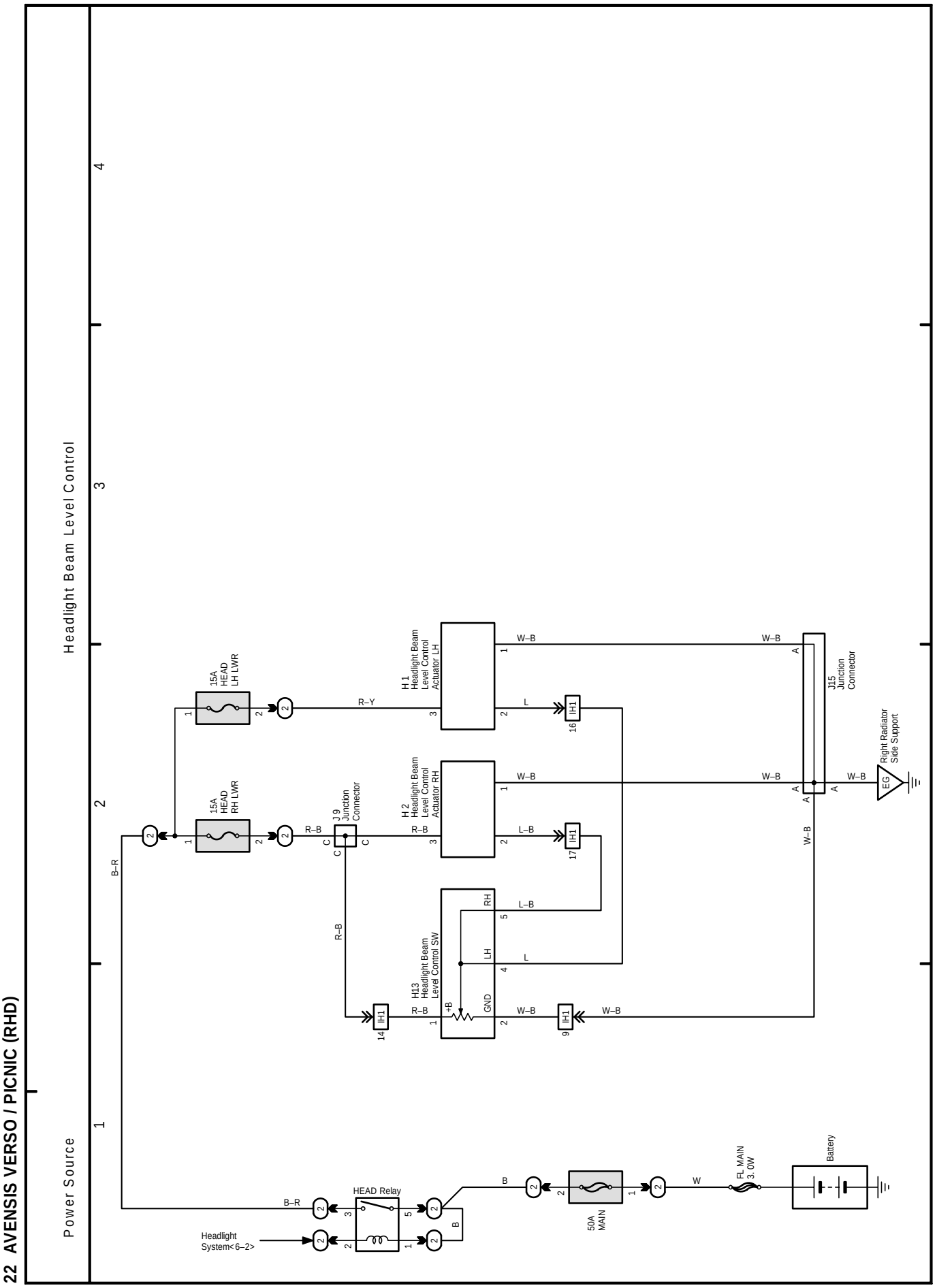

(Cont. next page)
19 AVENSIS VERSO / PICNIC (RHD)
Power Source
Power Window
D18
Door Lock Control SW Front LH
Power Window SW Front LH
D20
Power Window Master SW
P11
Power Window Motor
Front LH
P12
Power Window Motor
Front RH
J22
Junction
Connector
Left Kick Panel
J 3
Junction
Connector
Right Kick Panel
J28(A), J29(B)
Junction
Connector
Door Courtesy SW
<10–7>
I14
Ignition SW
IG1 Relay
30A PWR
30A FR P/W
7. 5A GAUGE
25A AM1
140A ALT
FL MAIN
3. 0W
Battery

19 AVENSIS VERSO / PICNIC (RHD) (Cont' d)

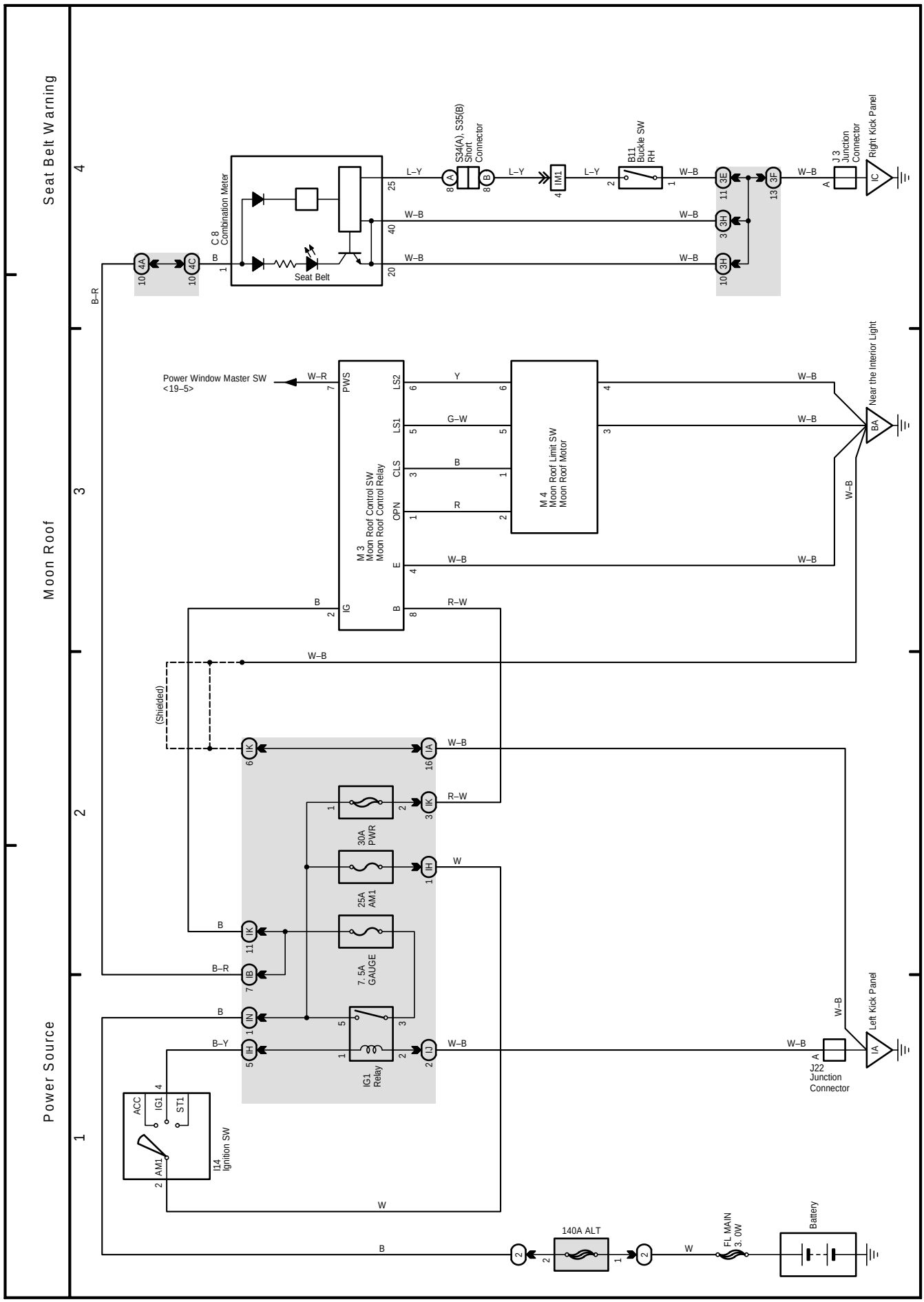


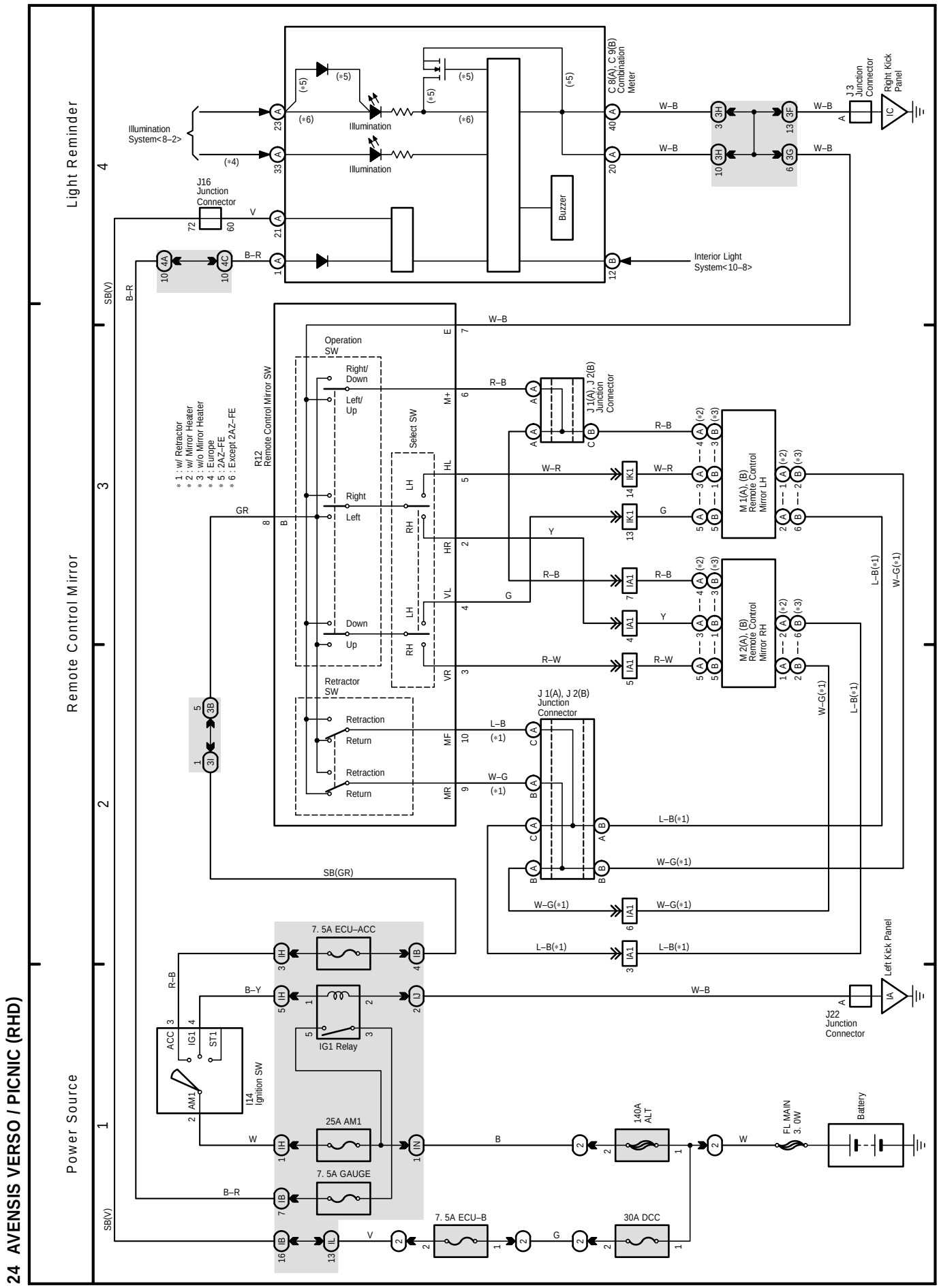

20 AVENSIS VERSO / PICNIC (RHD)
Power Source
Mirror Heater
Rear Window Defogger
1
2
3
4
* 1 : Europe
* 2 : Except Europe
R26(A), R25(B) Rear Window Defogger
Center of the Back Door Panel
M 2 Mirror Heater RH
M 1 Mirror Heater LH
J 3 Junction Connector
Right Kick Panel
J22 Junction Connector
Left Kick Panel
S47(A), S48(B) Short Connector
A/C Control Assembly <29–9>
Body ECU
RR DEF I/UP
Taillight System<7–1>
10A HTR
10A MIR HTR
20A RR DEF
RR DEF Relay
IG1 Relay
I14 Ignition SW
ACC
IG1
ST1
AM1
25A AM1
140A ALT
FL MAIN 3. 0W
Battery
W(*1) B(*2)
W–B
L–R
SB(L–R)
L–B
B–Y
B
W


21 AVENSIS VERSO / PICNIC (RHD)
Power Source
Front Wiper and Washer
Rear Wiper and Washer
Rear Wiper SW
Washer SW
Front Wiper SW
C10(A), (B) Combination SW
I14 Ignition SW
ACC
IG1
ST1
AM1
IG1 Relay
25A WIPER
25A AM1
140A ALT
FL MAIN 3. 0W
Battery
Rear Wiper Relay
R27 Rear Wiper Motor Rear Wiper Relay
R 2 Rear Washer Motor
F 9 Front Washer Motor
F10 Front Wiper Motor
J23(A), J24(B) Junction Connector
J28 Junction Connector
J9 Junction Connector
J15 Junction Connector
J3 Junction Connector
J22 Junction Connector
Right Kick Panel
Left Kick Panel
Right Radiator Side Support
A/C Control Assembly <29–9>
Engine and ECT ECU<3–9>
* 1 : Europe
* 2 : Except Europe
* 3 : 2AZ–FE
* 4 : Except 2AZ–FE

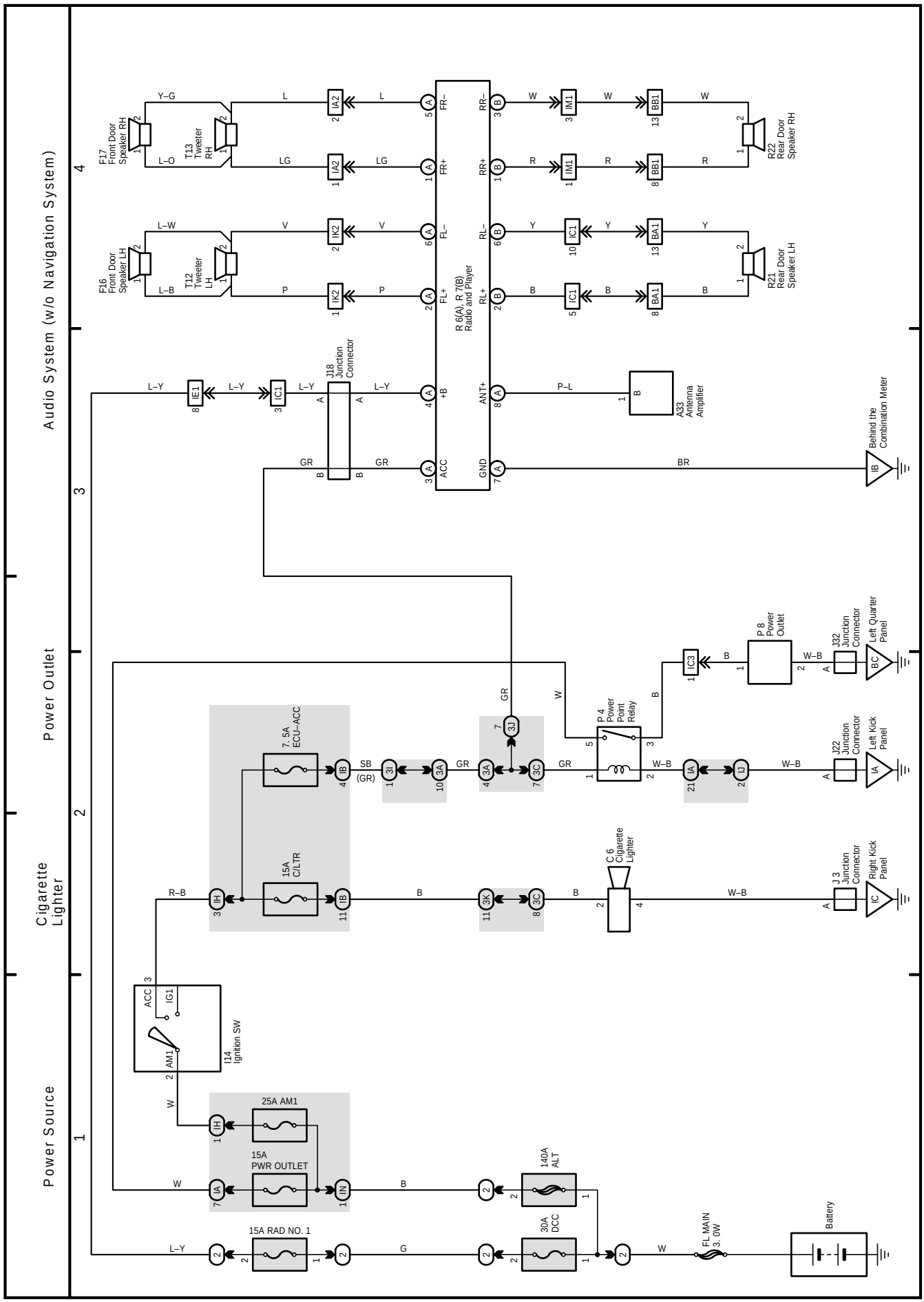

22 AVENSIS VERSO / PICNIC (RHD)
Power Source
Headlight Beam Level Control
1
2
3
4
Battery
FL MAIN
3. 0W
50A
MAIN
HEAD Relay
Headlight
System<6–2>
15A
HEAD
LH LWR
15A
HEAD
RH LWR
H11
Headlight Beam
Level Control
Actuator LH
H12
Headlight Beam
Level Control
Actuator RH
H13
Headlight Beam
Level Control SW
J9
Junction
Connector
J15
Junction
Connector
Right Radiator
Side Support
EG
IH1
W–B
R–Y
L
R–B
L–B
B–R
B
W
RH
LH
GND
+B

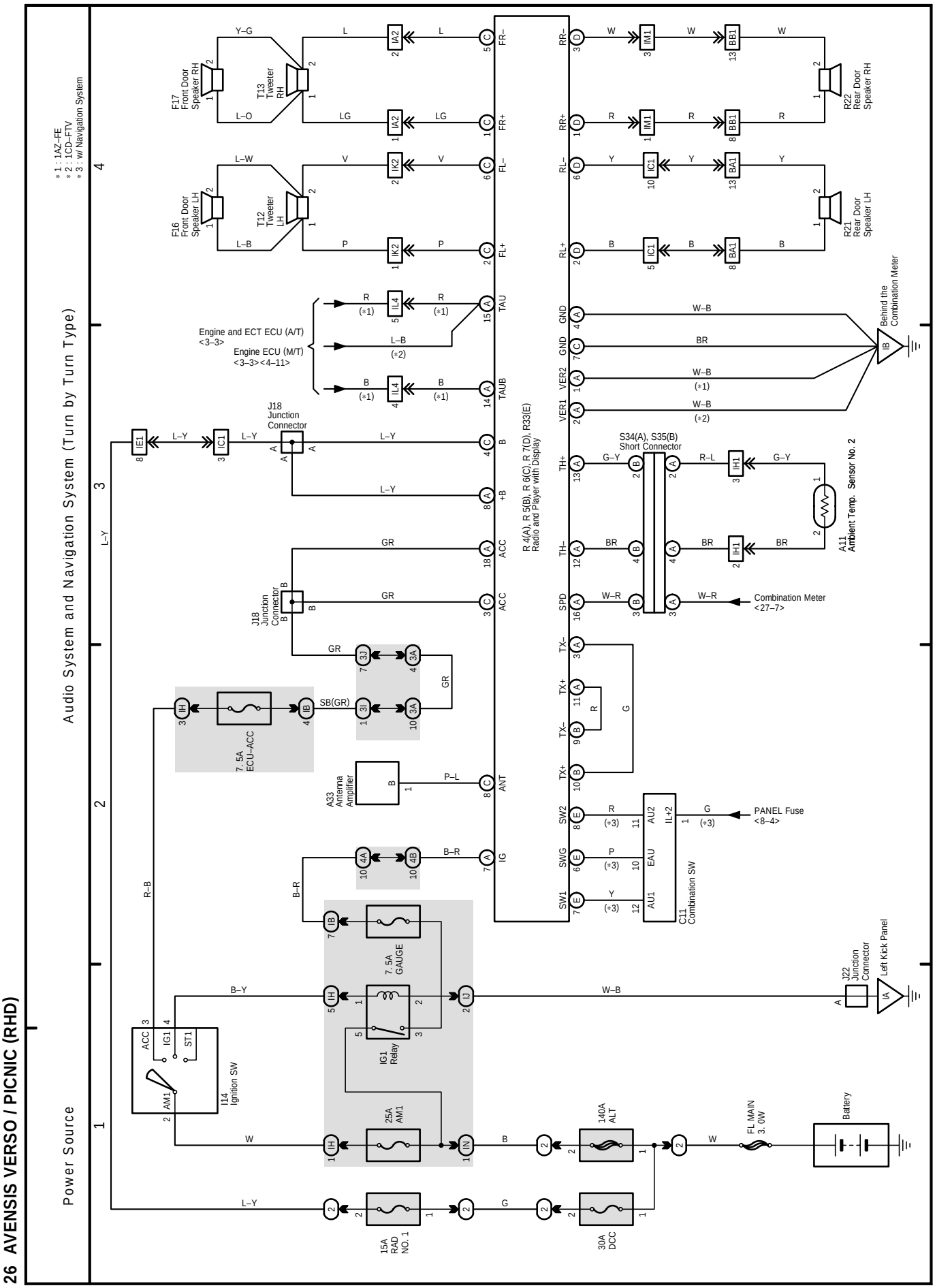
23 AVENSIS VERSO / PICNIC (RHD)

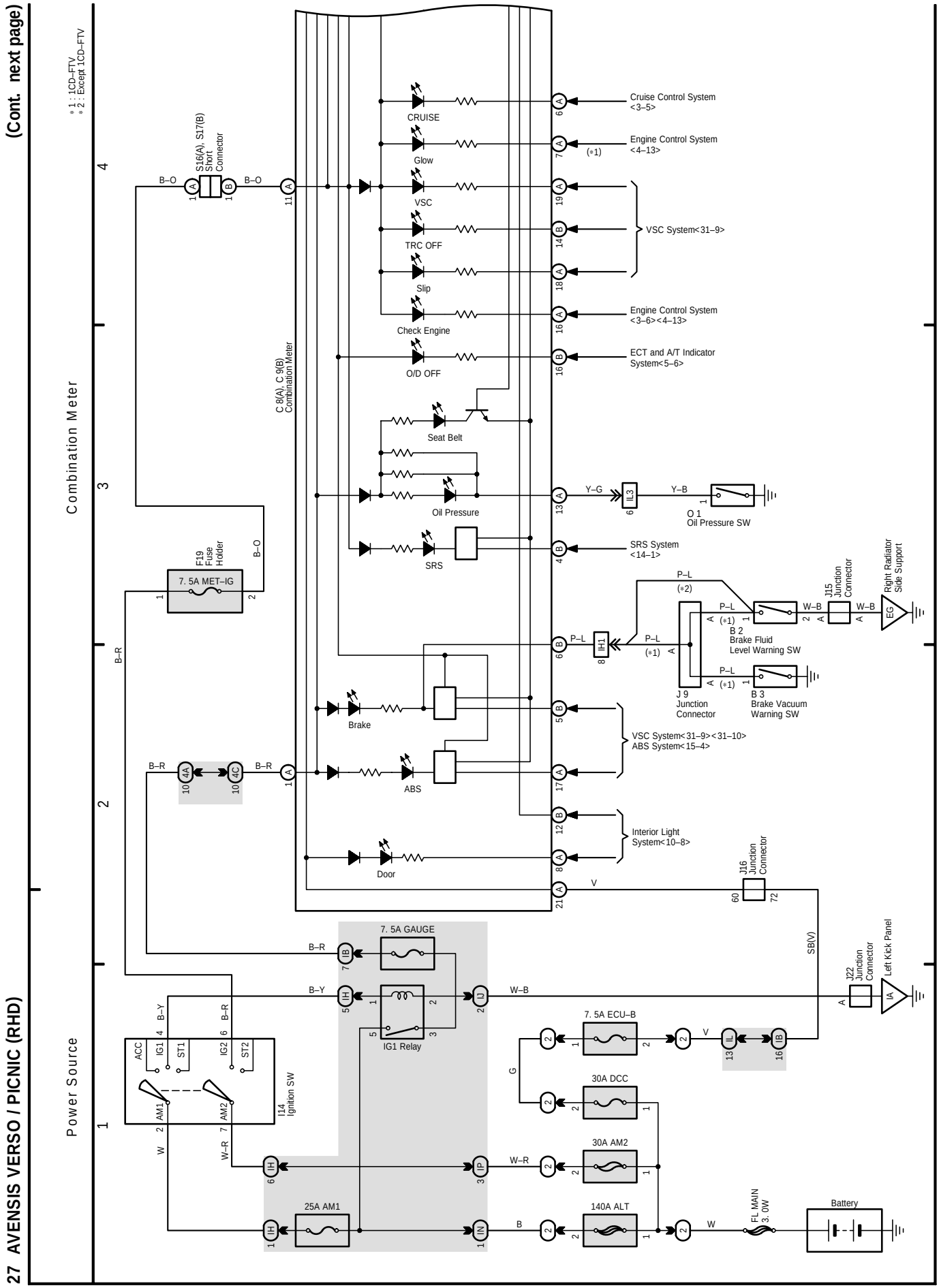


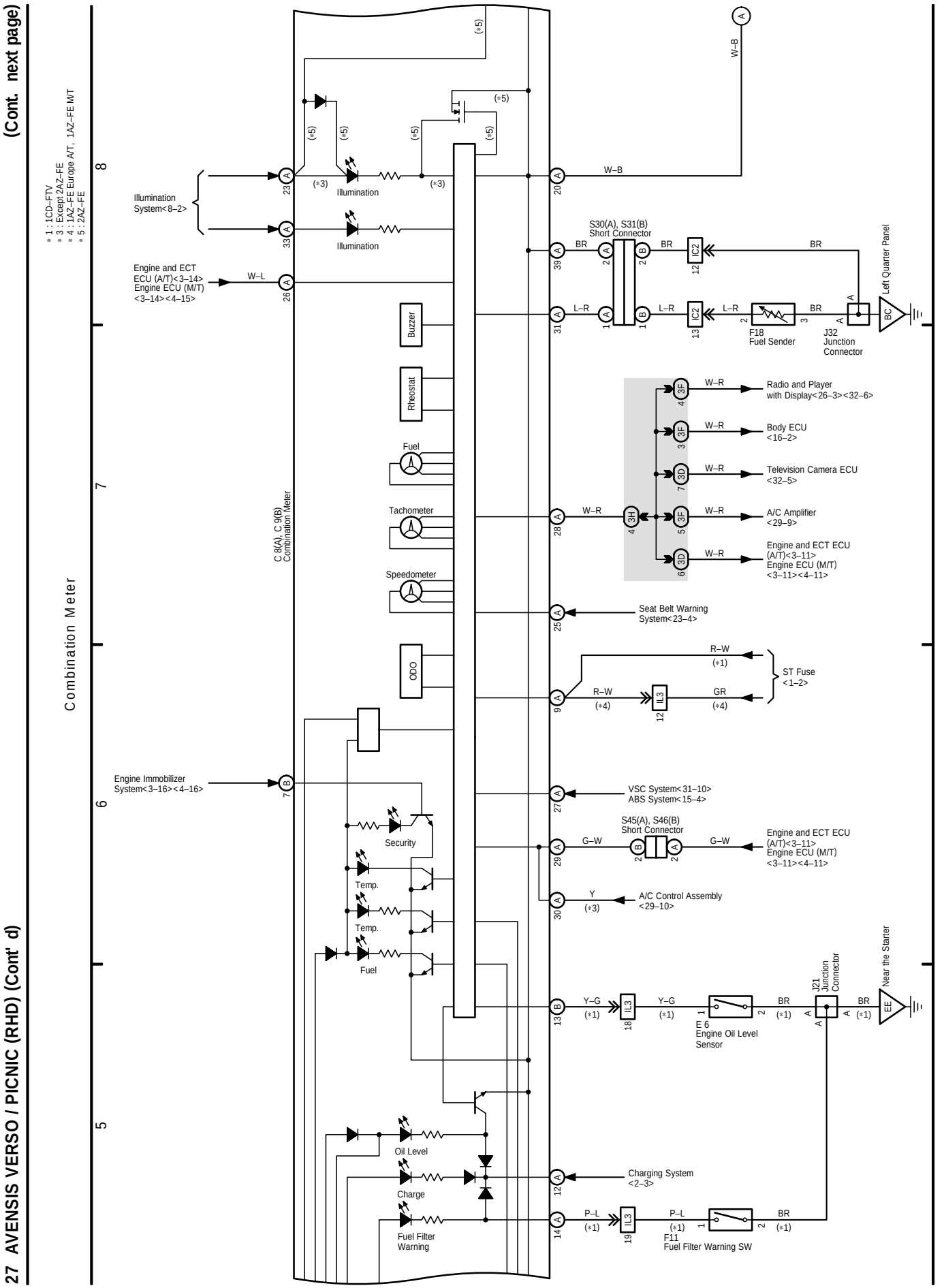

24 AVENSIS VERSO / PICNIC (RHD)
Light Reminder
Remote Control Mirror
Power Source
Illumination System<8–2>
Illumination
Buzzer
C 8(A), C 9(B) Combination Meter
J 3 Junction Connector
Right Kick Panel
J16 Junction Connector
Interior Light System<10–8>
Operation SW
Right/ Down
Left/ Up
Right
Left
Down
Up
Select SW
Retractor SW
Retraction
Return
R12 Remote Control Mirror SW
* 1 : w/ Retractor
* 2 : w/ Mirror Heater
* 3 : w/o Mirror Heater
* 4 : Europe
* 5 : 2AZ–FE
* 6 : Except 2AZ–FE
J 1(A), J 2(B) Junction Connector
M 1(A), (B) Remote Control Mirror LH
M 2(A), (B) Remote Control Mirror RH
IK1
IA1
Left Kick Panel
J22 Junction Connector
I14 Ignition SW
IG1 Relay
7. 5A ECU–ACC
25A AM1
7. 5A GAUGE
7. 5A ECU–B
30A DCC
140A ALT
FL MAIN 3. 0W
Battery

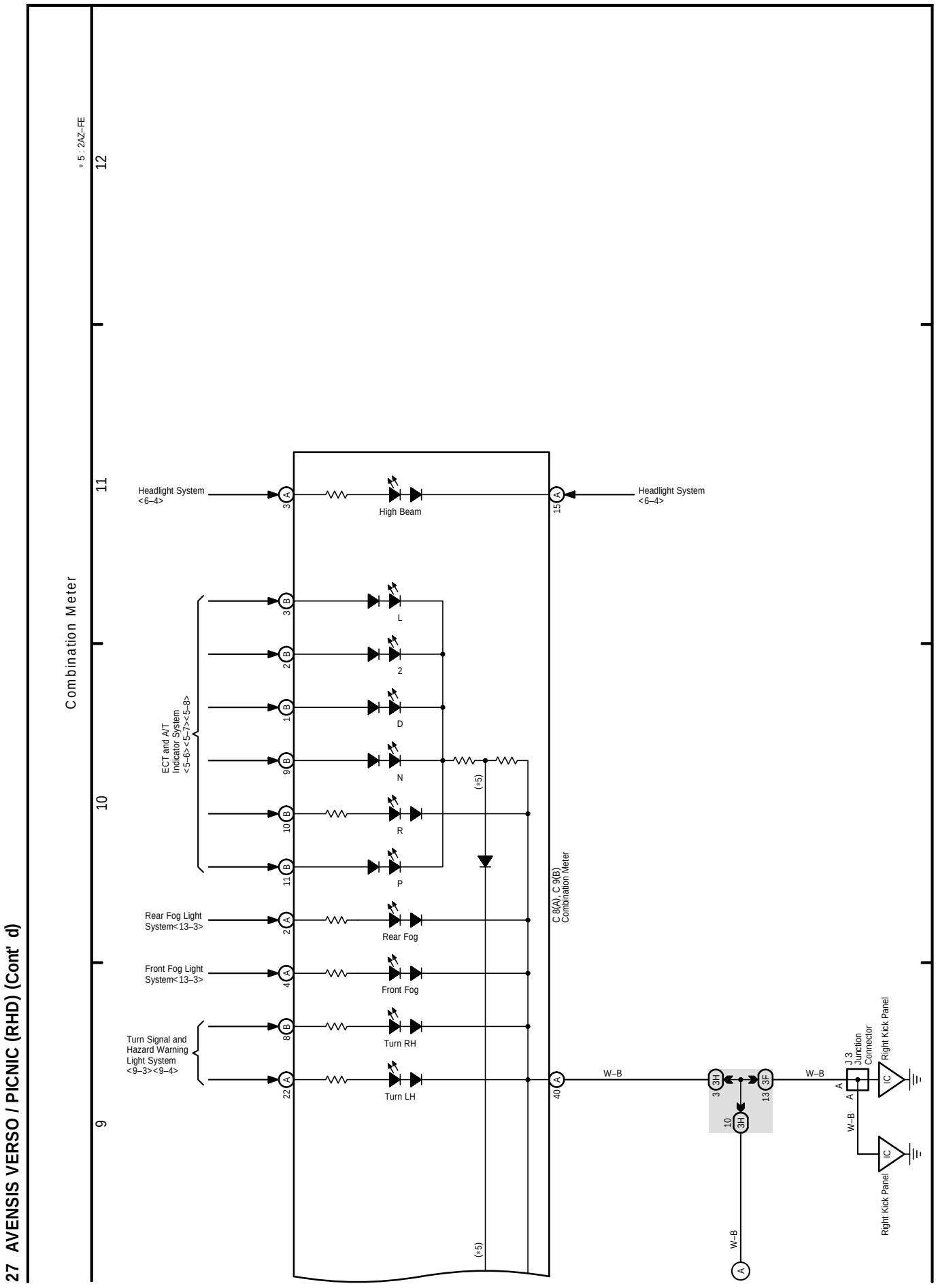
25 AVENSIS VERSO / PICNIC (RHD)

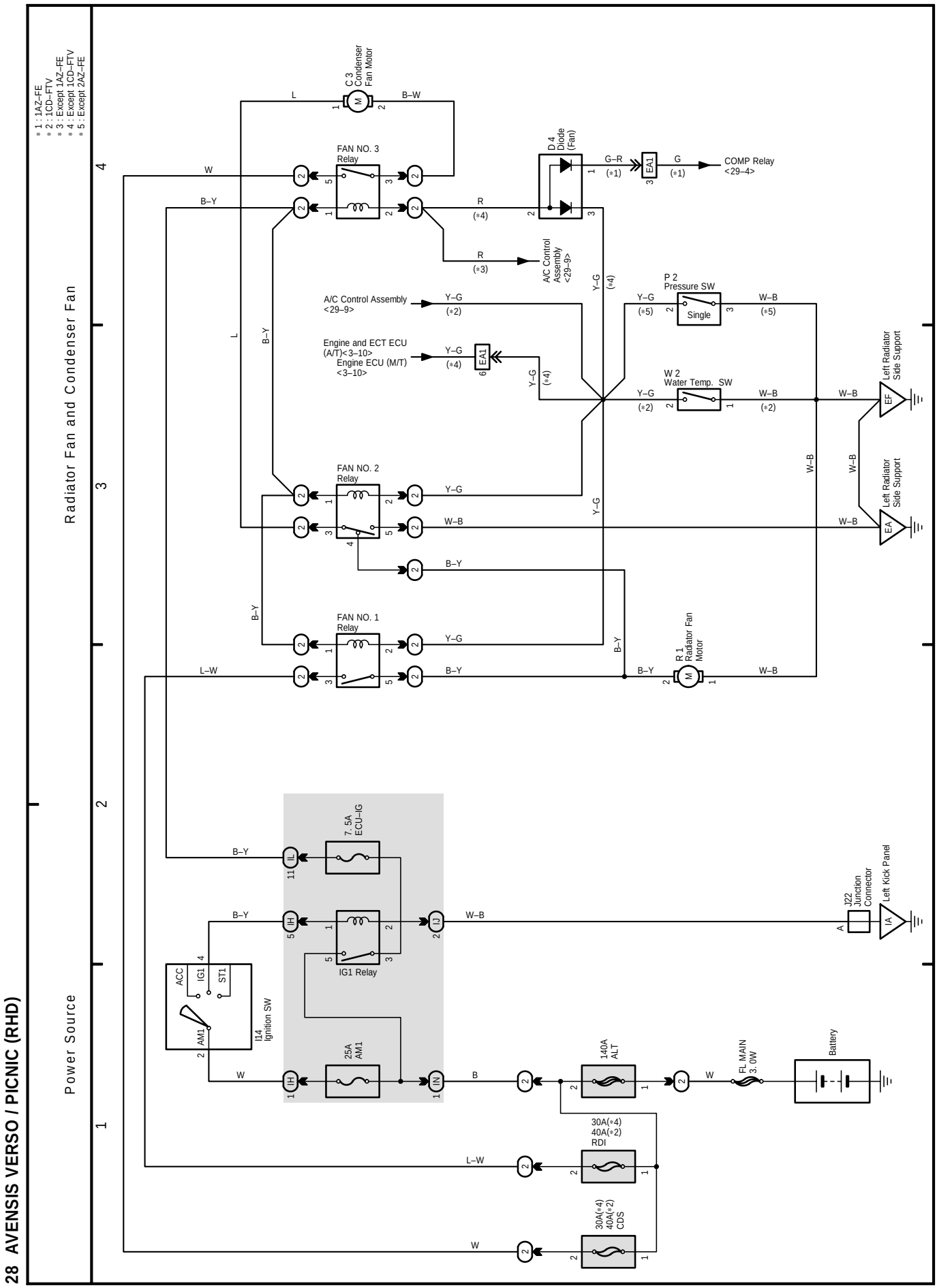


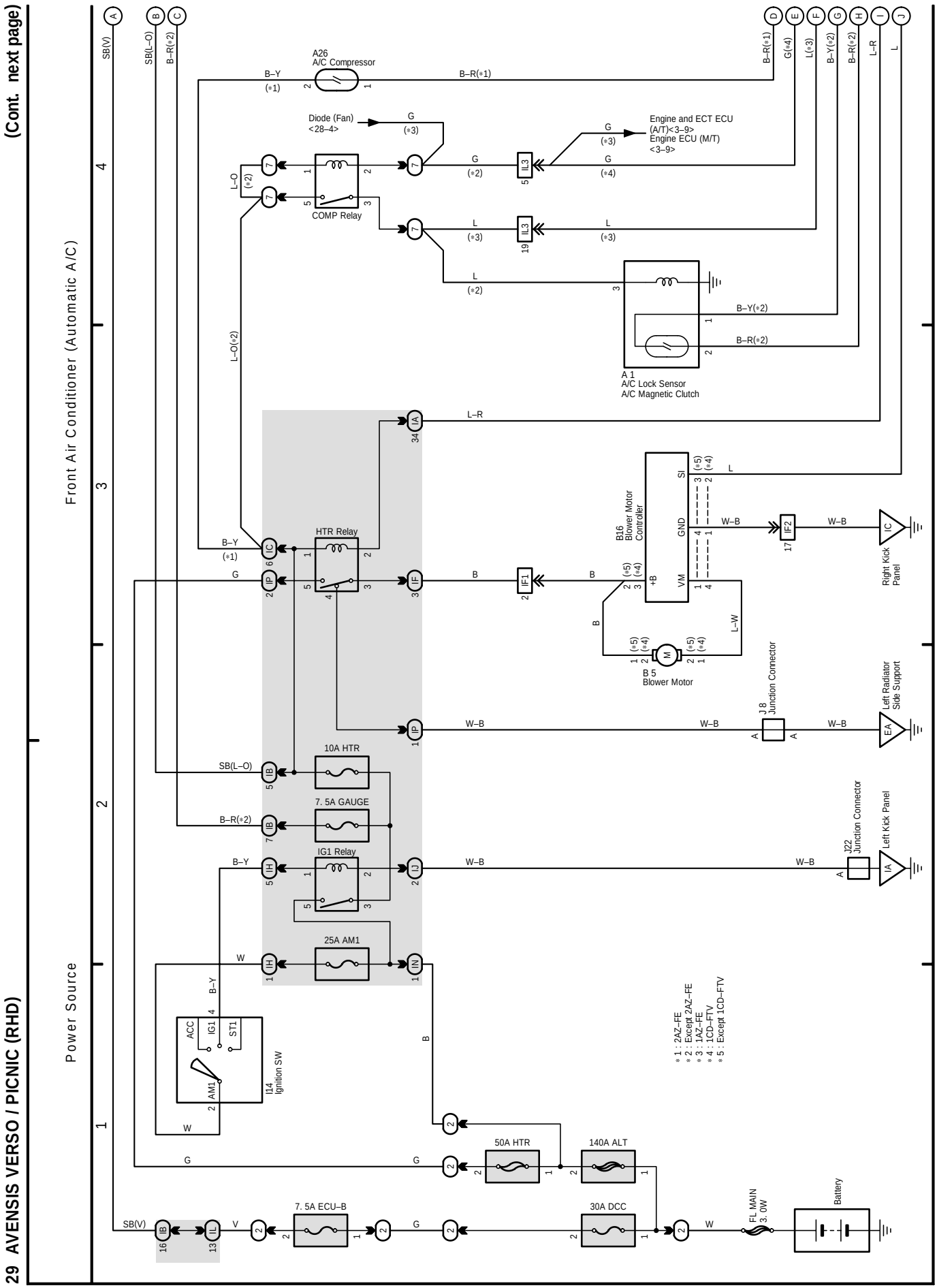

26 AVENSIS VERSO / PICNIC (RHD)
Power Source
Audio System and Navigation System (Turn by Turn Type)
*1 : 1AZ-FE
*2 : 1CD-FTV
*3 : w/ Navigation System
F17 Front Door Speaker RH
T13 Tweeter RH
F16 Front Door Speaker LH
T12 Tweeter LH
R22 Rear Door Speaker RH
R21 Rear Door Speaker LH
Engine and ECT ECU (A/T) <3–3>
Engine ECU (M/T) <3–3><4–11>
J18 Junction Connector
R 4(A), R 5(B), R 6(C), R 7(D), R33(E) Radio and Player with Display
S34(A), S35(B) Short Connector
A11 Ambient Temp. Sensor No. 2
Behind the Combination Meter
Combination Meter <27–7>
PANEL Fuse <8–4>
C11 Combination SW
A33 Antenna Amplifier
7. 5A ECU–ACC
7. 5A GAUGE
IG1 Relay
I14 Ignition SW
25A AM1
140A ALT
FL MAIN 3. 0W
Battery
15A RAD NO. 1
30A DCC
J22 Junction Connector
Left Kick Panel


(Cont. next page)
*1 : 1CD–FTV
*2 : Except 1CD–FTV
Combination Meter
Power Source
CRUISE
Glow
VSC
TRC OFF
Slip
Check Engine
O/D OFF
Seat Belt
Oil Pressure
SRS
Brake
ABS
Door
Cruise Control System <3–5>
Engine Control System <4–13>
VSC System<31–9>
Engine Control System <3–6><4–13>
ECT and A/T Indicator System<5–6>
SRS System <14–1>
Oil Pressure SW
Brake Fluid Level Warning SW
Brake Vacuum Warning SW
VSC System<31–9><31–10>
ABS System<15–4>
Interior Light System<10–8>
S16(A), S17(B) Short Connector
C 8(A), C 9(B) Combination Meter
F19 Fuse Holder
7. 5A MET–IG
7. 5A GAUGE
IG1 Relay
I14 Ignition SW
7. 5A ECU–B
30A DCC
30A AM2
25A AM1
140A ALT
FL MAIN 3. 0W
Battery
J15 Junction Connector
J16 Junction Connector
J22 Junction Connector
J 9 Junction Connector
Right Radiator Side Support
Left Kick Panel
27 AVENSIS VERSO / PICNIC (RHD)


27 AVENSIS VERSO / PICNIC (RHD) (Cont' d)
(Cont. next page)
Combination Meter
* 1 : 1CD–FTV
* 3 : Except 2AZ–FE
* 4 : 1AZ–FE Europe A/T, 1AZ–FE M/T
* 5 : 2AZ–FE
Illumination System<8–2>
Illumination
Engine and ECT ECU (A/T)<3–14> Engine ECU (M/T) <3–14><4–15>
W–L
Buzzer
Rheostat
Fuel
Tachometer
Speedometer
ODO
C 8(A), C 9(B) Combination Meter
Engine Immobilizer System<3–16><4–16>
Security
Temp.
Temp.
Fuel
Oil Level
Charge
Fuel Filter Warning
W–B
S30(A), S31(B) Short Connector
IC2
Left Quarter Panel
F18 Fuel Sender
J32 Junction Connector
Radio and Player with Display<26–3><32–6>
Body ECU <16–2>
Television Camera ECU <32–5>
A/C Amplifier <29–9>
Engine and ECT ECU (A/T)<3–11> Engine ECU (M/T) <3–11><4–11>
Seat Belt Warning System<23–4>
ST Fuse <1–2>
VSC System<31–10> ABS System<15–4>
S45(A), S46(B) Short Connector
A/C Control Assembly <29–10>
J21 Junction Connector
Near the Starter
E 6 Engine Oil Level Sensor
Charging System <2–3>
F11 Fuel Filter Warning SW


27 AVENSIS VERSO / PICNIC (RHD) (Cont' d)
Combination Meter
* 5 : 2AZ–FE
12
11
10
9
Headlight System <6–4>
High Beam
Headlight System <6–4>
ECT and A/T Indicator System <5–6><5–7><5–8>
L
2
D
N
R
P
(*5)
Rear Fog Light System<13–3>
Rear Fog
Front Fog Light System<13–3>
Front Fog
Turn Signal and Hazard Warning Light System <9–3><9–4>
Turn RH
Turn LH
C 8(A), C 9(B) Combination Meter
W–B
3H
3F
J 3 Junction Connector
IC
Right Kick Panel


28 AVENSIS VERSO / PICNIC (RHD)
Power Source
Radiator Fan and Condenser Fan
* 1 : 1AZ–FE
* 2 : 1CD–FTV
* 3 : Except 1AZ–FE
* 4 : Except 1CD–FTV
* 5 : Except 2AZ–FE
C 3 Condenser Fan Motor
FAN NO. 3 Relay
D 4 Diode (Fan)
COMP Relay <29–4>
A/C Control Assembly <29–9>
P 2 Pressure SW
Single
W 2 Water Temp. SW
Engine and ECT ECU (A/T)<3–10> Engine ECU (M/T) <3–10>
Left Radiator Side Support
FAN NO. 2 Relay
FAN NO. 1 Relay
R 1 Radiator Fan Motor
7. 5A ECU–IG
IG1 Relay
J22 Junction Connector
Left Kick Panel
I14 Ignition SW
ACC
IG1
ST1
AM1
25A AM1
140A ALT
FL MAIN 3. 0W
Battery
30A(*4) 40A(*2) RDI
30A(*4) 40A(*2) CDS


(Cont. next page)
29 AVENSIS VERSO / PICNIC (RHD)
Power Source
Front Air Conditioner (Automatic A/C)
A26
A/C Compressor
Diode (Fan)
<28–4>
Engine and ECT ECU
(A/T)<3–9>
Engine ECU (M/T)
<3–9>
COMP Relay
A 1
A/C Lock Sensor
A/C Magnetic Clutch
HTR Relay
B16
Blower Motor
Controller
B 5
Blower Motor
J8
Junction Connector
J22
Junction Connector
Right Kick
Panel
Left Radiator
Side Support
Left Kick Panel
10A HTR
7. 5A GAUGE
IG1 Relay
25A AM1
I14
Ignition SW
50A HTR
140A ALT
7. 5A ECU–B
30A DCC
FL MAIN
3. 0W
Battery
* 1 : 2AZ–FE
* 2 : Except 2AZ–FE
* 3 : 1AZ–FE
* 4 : 1CD–FTV
* 5 : Except 1CD–FTV

29 AVENSIS VERSO / PICNIC (RHD) (Cont' d)

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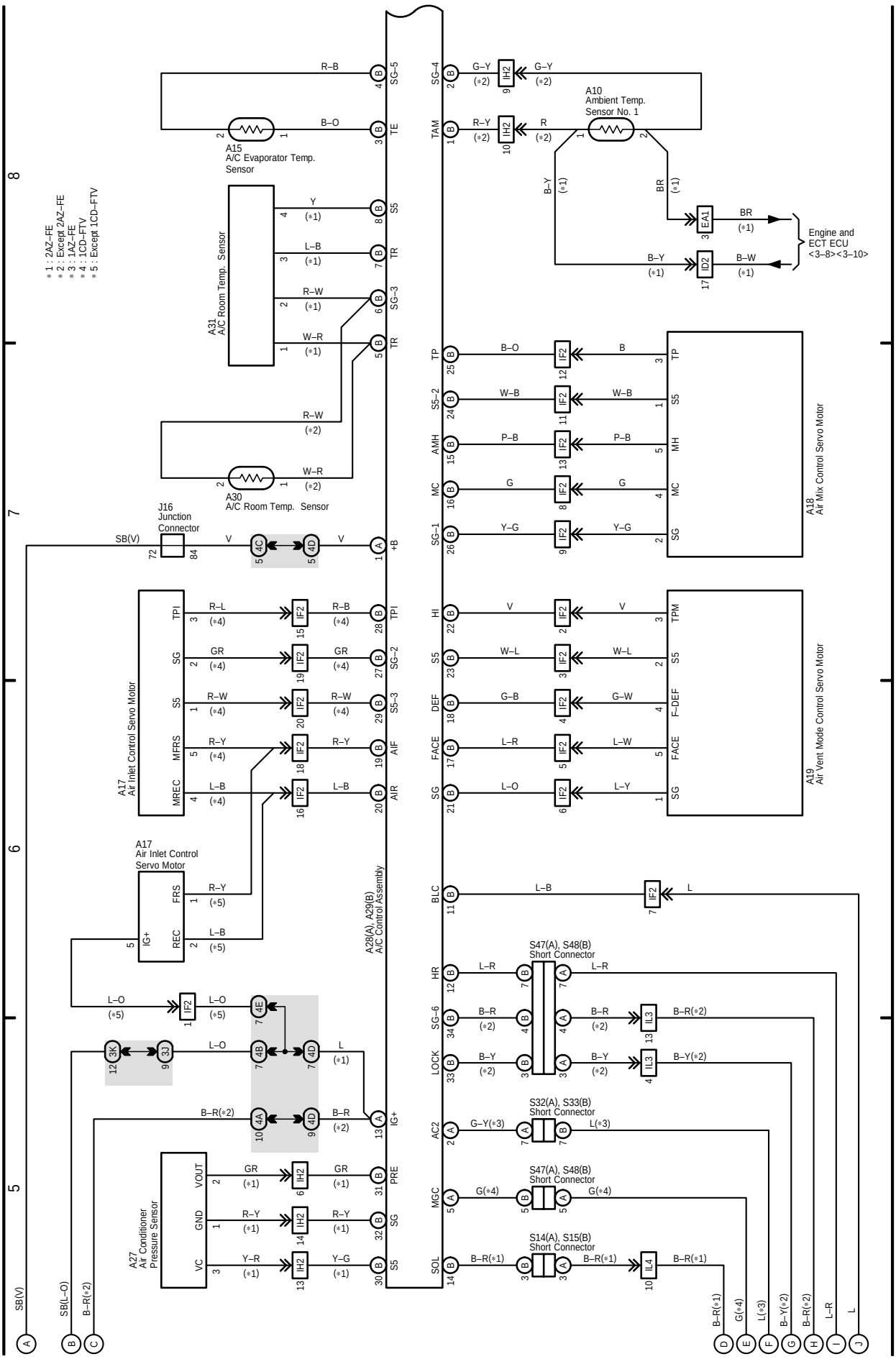
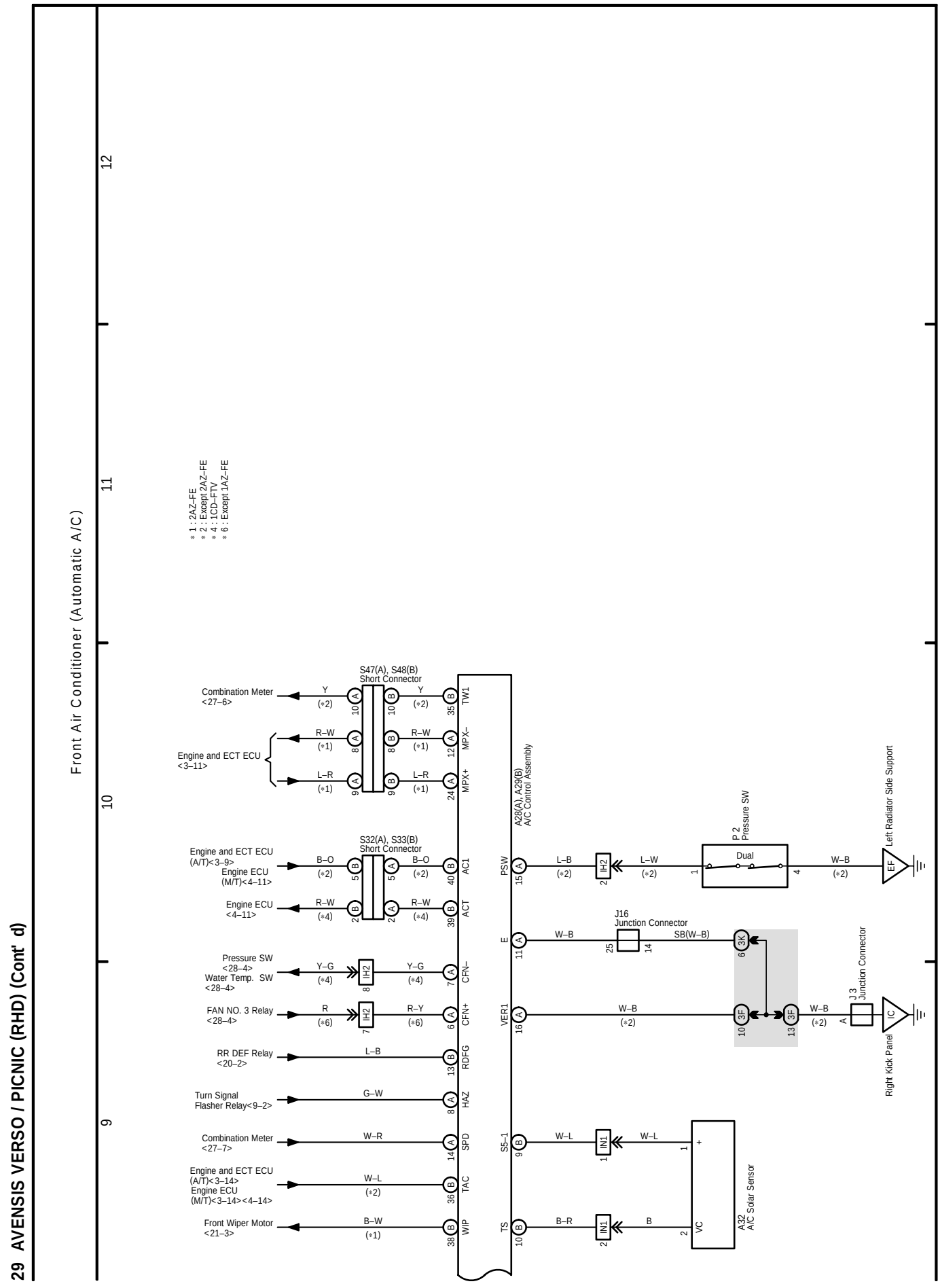
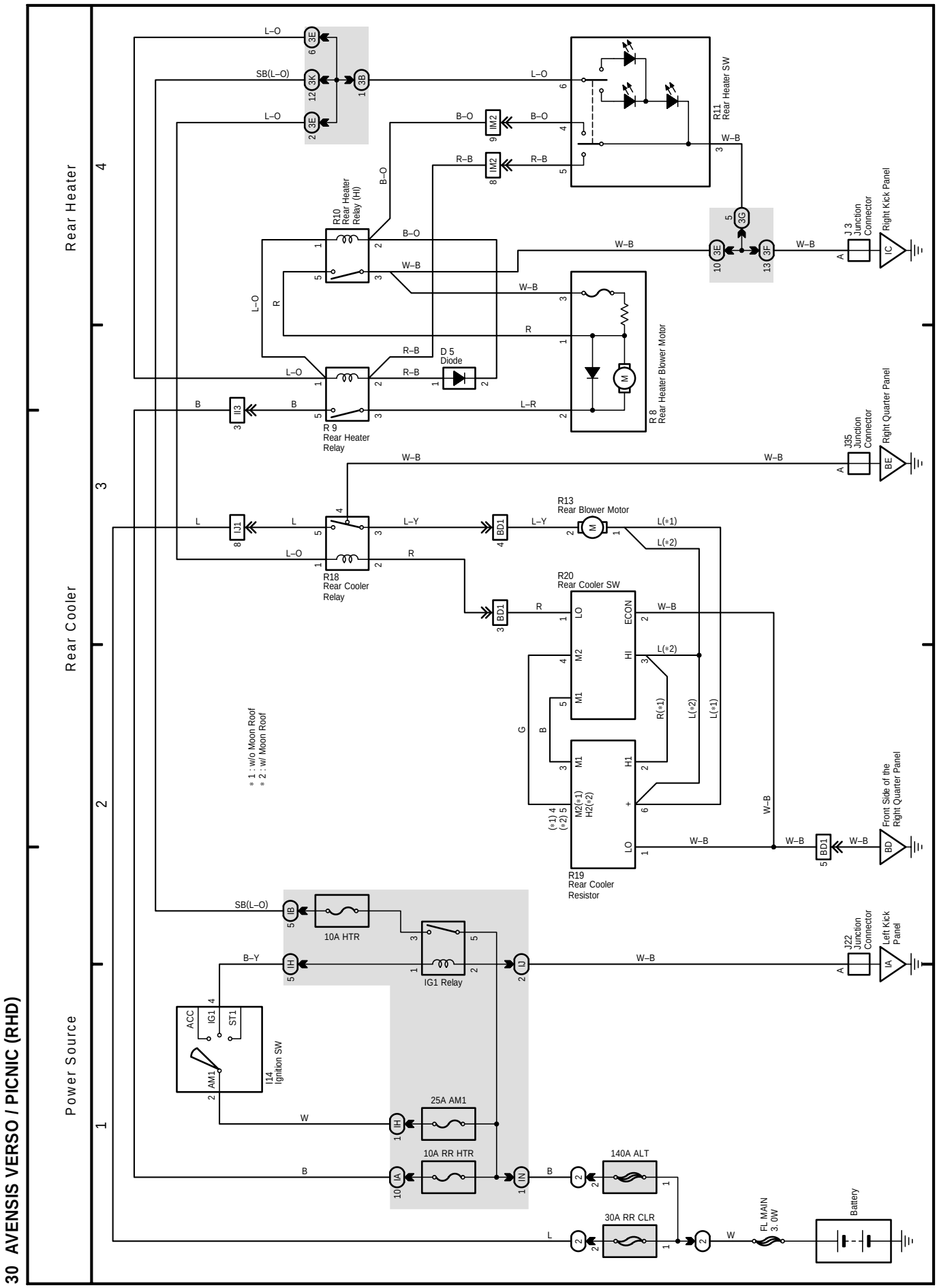
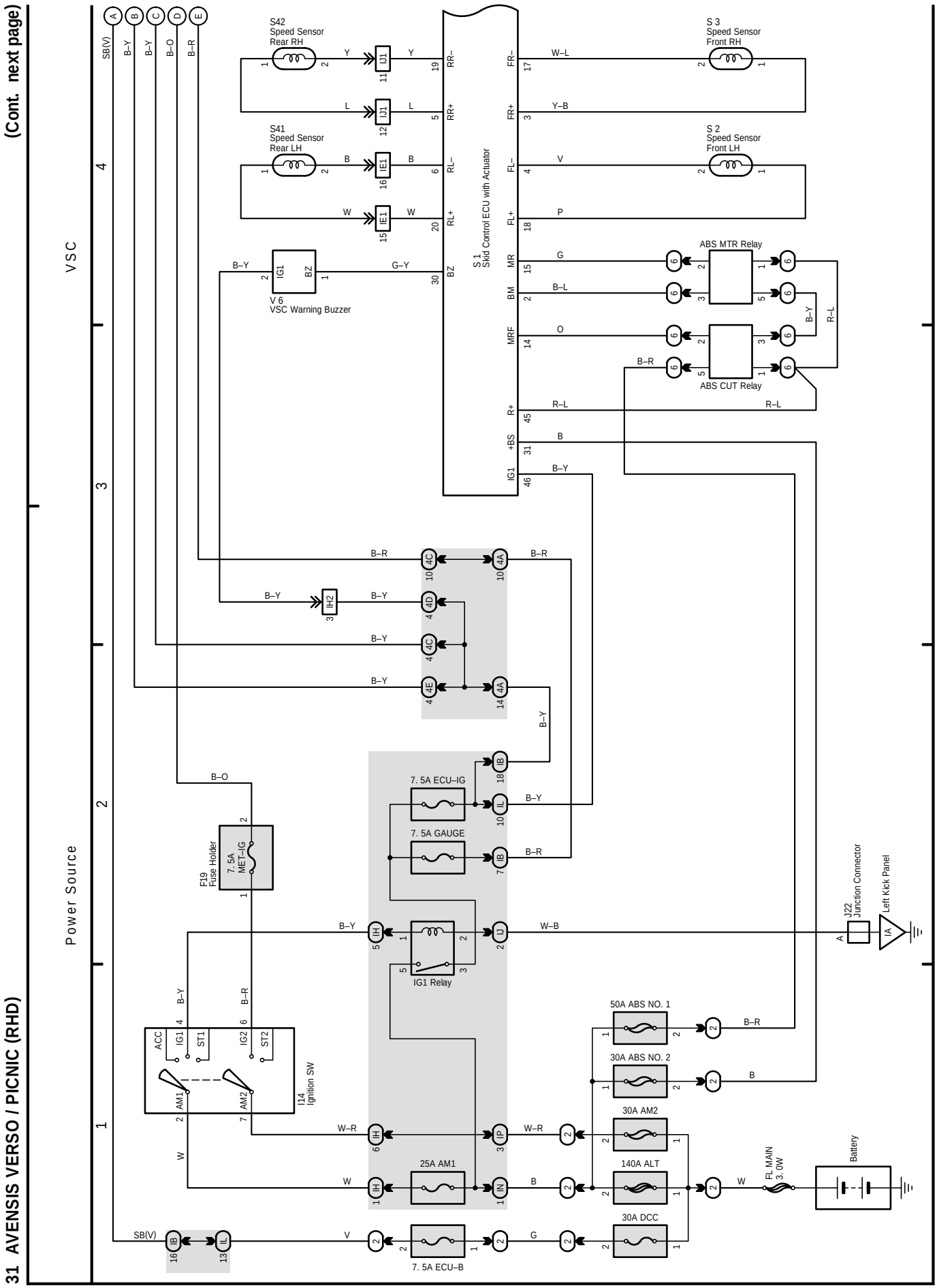
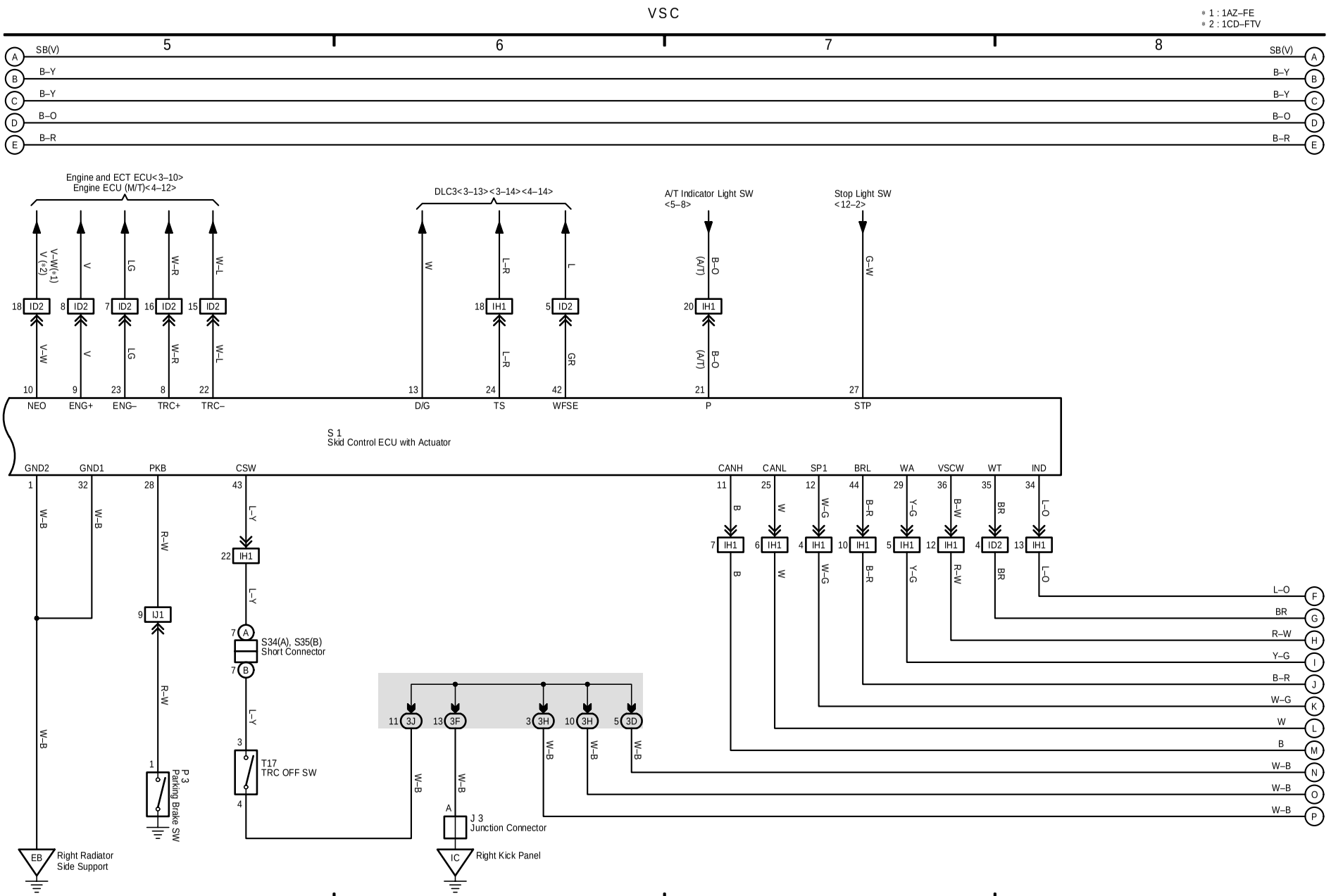


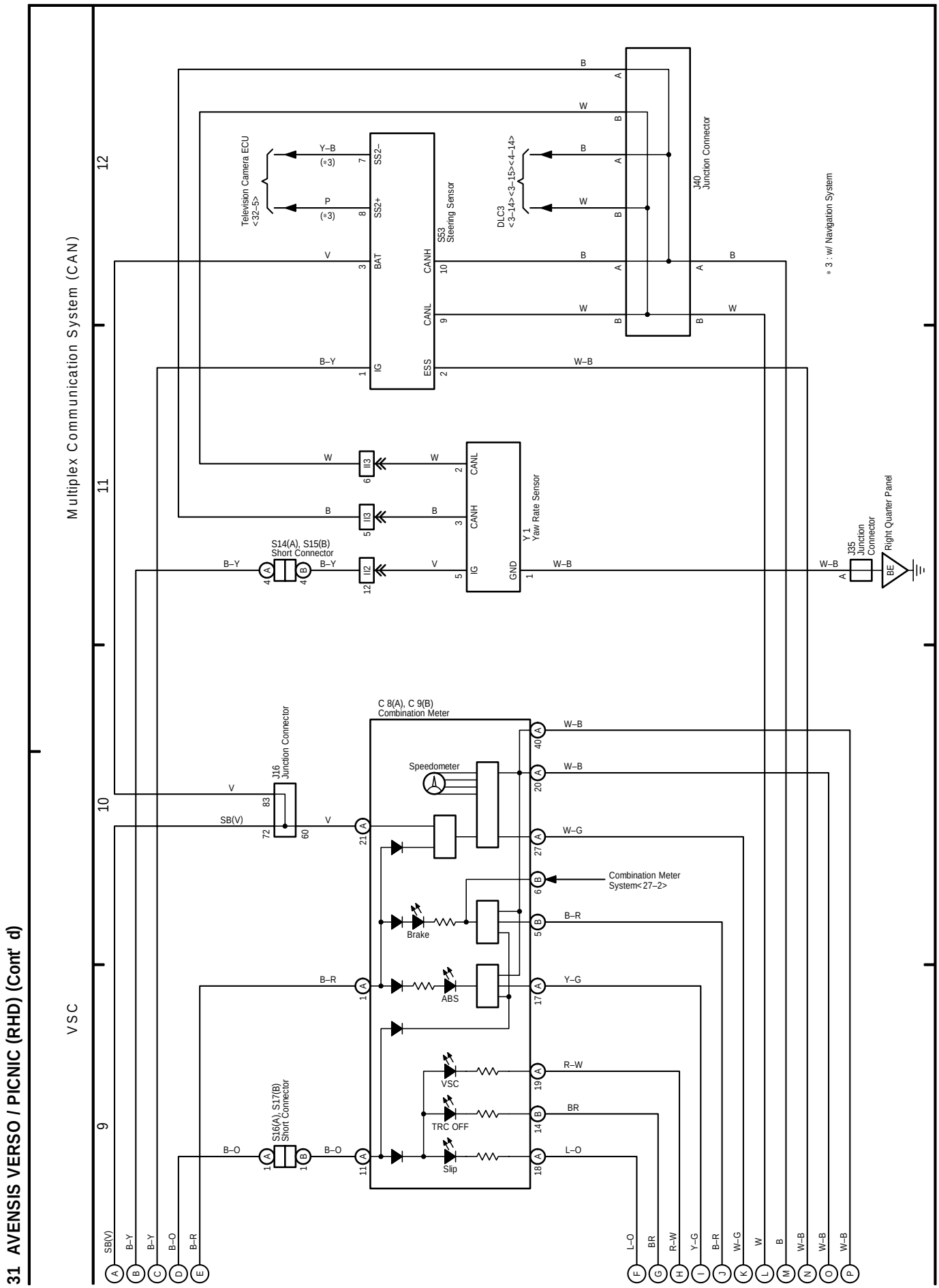

29 AVENSIS VERSO / PICNIC (RHD) (Cont' d)
Front Air Conditioner (Automatic A/C)
9
10
11
12
* 1 : 2AZ–FE
* 2 : Except 2AZ–FE
* 4 : 1CD–FTV
* 6 : Except 1AZ–FE
S47(A), S48(B) Short Connector
S32(A), S33(B) Short Connector
Combination Meter <27–6>
Engine and ECT ECU <3–11>
Engine and ECT ECU (A/T)<3–9>
Engine ECU (M/T)<4–11>
Engine ECU <4–11>
Pressure SW <28–4>
Water Temp. SW <28–4>
FAN NO. 3 Relay <28–4>
RR DEF Relay <20–2>
Turn Signal Flasher Relay<9–2>
Combination Meter <27–7>
Engine and ECT ECU (A/T)<3–14>
Engine ECU (M/T)<3–14><4–14>
Front Wiper Motor <21–3>
TW1
MPX–
MPX+
AC1
ACT
CFN–
CFN+
RDFG
HAZ
SPD
TAC
WIP
A28(A), A29(B) A/C Control Assembly
PSW
E
VER1
S5–1
TS
P 2 Pressure SW
Dual
Left Radiator Side Support
J16 Junction Connector
J 3 Junction Connector
Right Kick Panel
A32 A/C Solar Sensor
VC

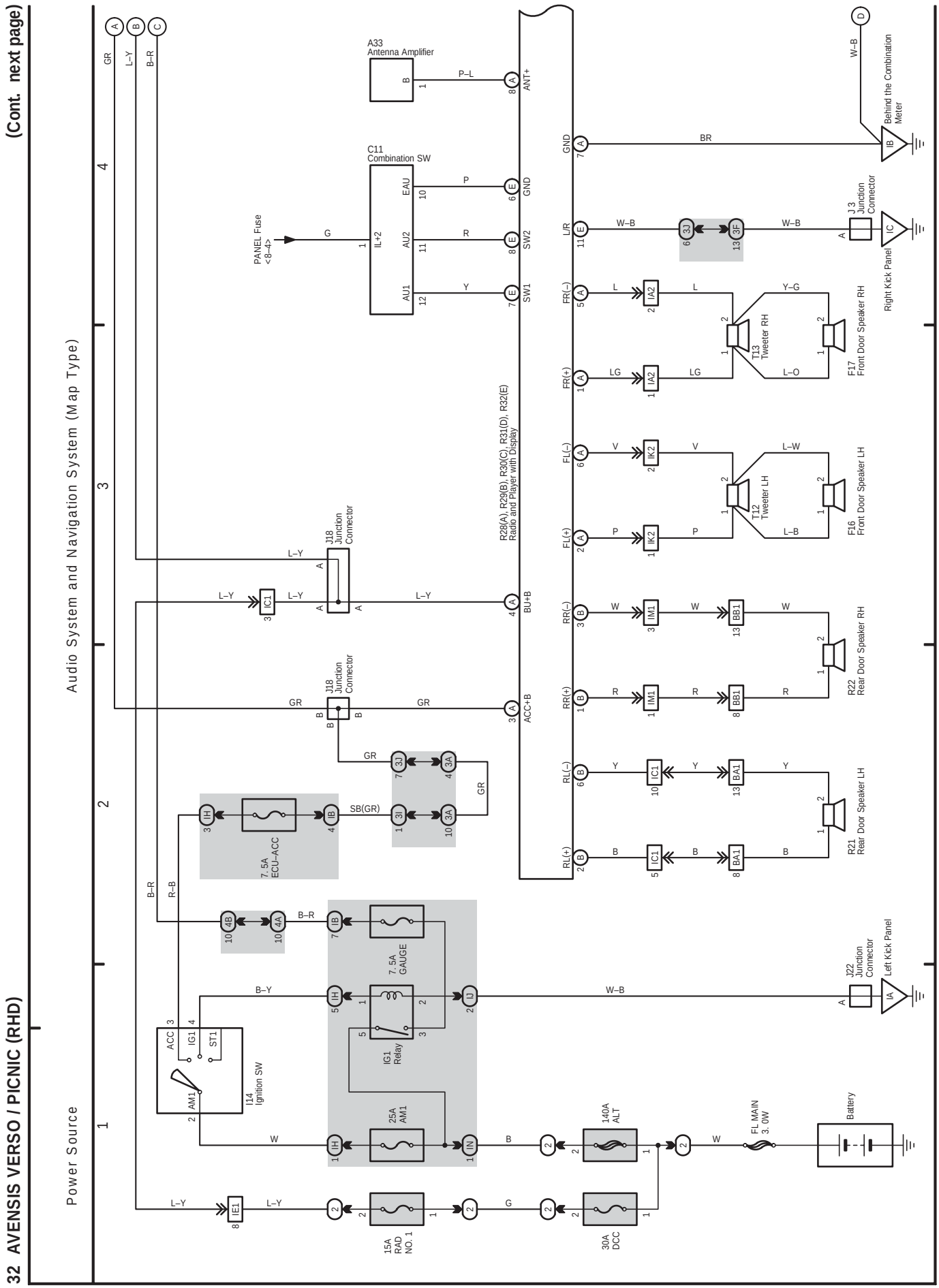

30 AVENSIS VERSO / PICNIC (RHD)
Power Source
Rear Cooler
Rear Heater
1
2
3
4
R11 Rear Heater SW
R10 Rear Heater Relay (HI)
R 9 Rear Heater Relay
R 8 Rear Heater Blower Motor
D 5 Diode
R13 Rear Blower Motor
R18 Rear Cooler Relay
R20 Rear Cooler SW
R19 Rear Cooler Resistor
* 1 : w/o Moon Roof
* 2 : w/ Moon Roof
J 3 Junction Connector
Right Kick Panel
J35 Junction Connector
Right Quarter Panel
Front Side of the Right Quarter Panel
J22 Junction Connector
Left Kick Panel
10A HTR
IG1 Relay
I14 Ignition SW
25A AM1
10A RR HTR
140A ALT
30A RR CLR
FL MAIN 3. 0W
Battery


(Cont. next page)
31 AVENSIS VERSO / PICNIC (RHD)
VSC
Power Source
S42 Speed Sensor Rear RH
S41 Speed Sensor Rear LH
S 3 Speed Sensor Front RH
S 2 Speed Sensor Front LH
S 1 Skid Control ECU with Actuator
V 6 VSC Warning Buzzer
ABS MTR Relay
ABS CUT Relay
F19 Fuse Holder
7. 5A MET–IG
7. 5A ECU–IG
7. 5A GAUGE
IG1 Relay
I14 Ignition SW
ACC
IG1
ST1
IG2
ST2
AM1
AM2
50A ABS NO. 1
30A ABS NO. 2
30A AM2
25A AM1
140A ALT
30A DCC
7. 5A ECU–B
J22 Junction Connector
Left Kick Panel
FL MAIN
Battery

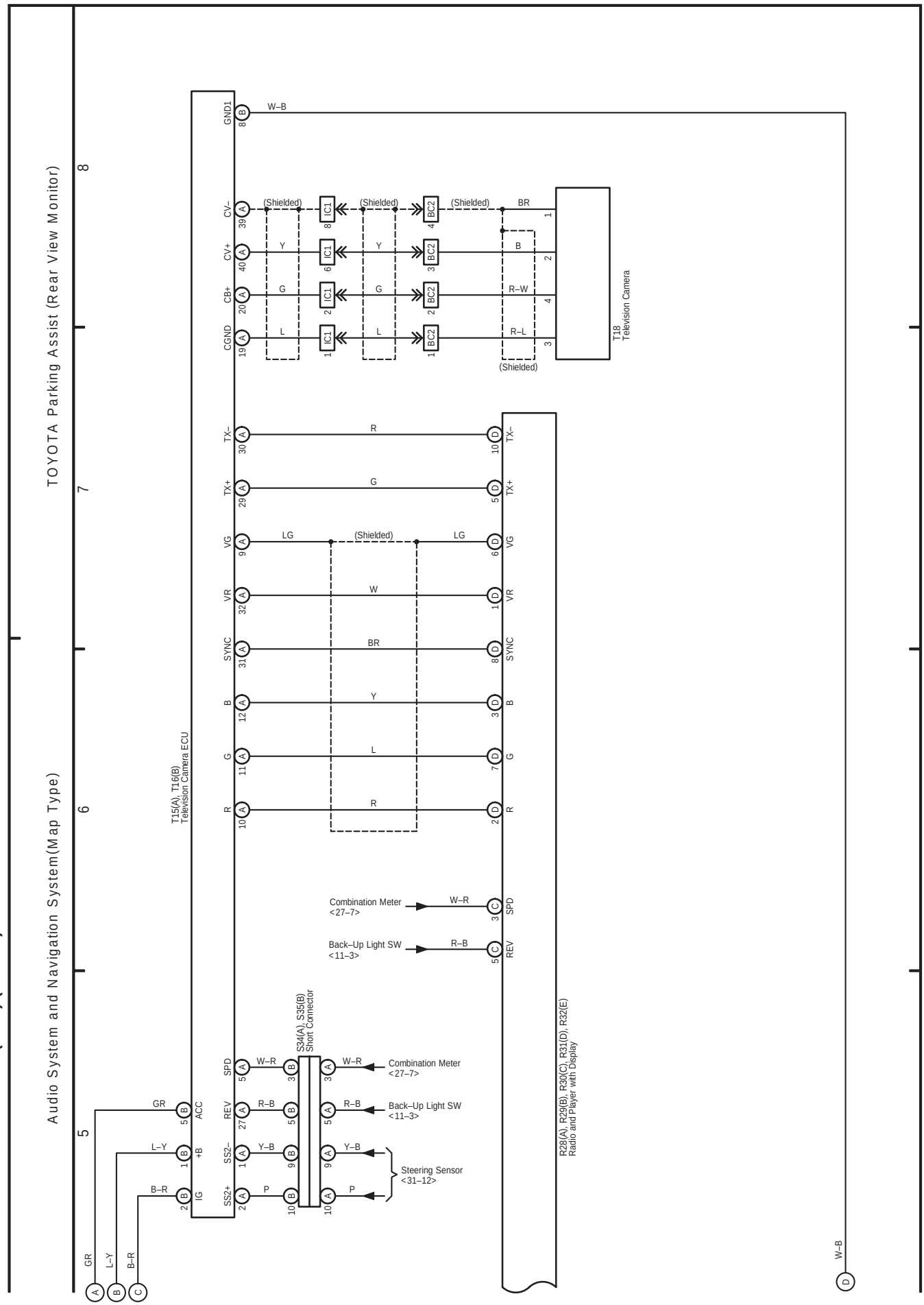
(Cont. next page)




31 AVENSIS VERSO / PICNIC (RHD) (Cont' d)
VSC
Multiplex Communication System (CAN)
12
11
10
9
Television Camera ECU
<32–5>
Y–B
(*3)
P
(*3)
SS2–
SS2+
S53
Steering Sensor
DLC3
<3–14><3–15><4–14>
J40
Junction Connector
* 3 : w/ Navigation System
BAT
IG
CANH
CANL
ESS
B–Y
W–B
S14(A), S15(B)
Short Connector
Y 1
Yaw Rate Sensor
GND
J35
Junction
Connector
Right Quarter Panel
J16
Junction Connector
C 8(A), C 9(B)
Combination Meter
Speedometer
Combination Meter
System< 27–2>
Brake
ABS
VSC
TRC OFF
Slip
S16(A), S17(B)
Short Connector
SB(V)
B–O
B–R
L–O
BR
R–W
Y–G
W–G
W
B
W–B


32 AVENSIS VERSO / PICNIC (RHD)
(Cont. next page)
Power Source
Audio System and Navigation System (Map Type)
A33
Antenna Amplifier
C11
Combination SW
PANEL Fuse
<8–4>
R28(A), R29(B), R30(C), R31(D), R32(E)
Radio and Player with Display
J18
Junction
Connector
J22
Junction
Connector
Left Kick Panel
J13
Junction
Connector
Right Kick Panel
Behind the Combination
Meter
I14
Ignition SW
IG1
Relay
7.5A
GAUGE
7.5A
ECU–ACC
25A
AM1
140A
ALT
FL MAIN
3.0W
Battery
15A
RAD
NO. 1
30A
DCC
T13
Tweeter RH
F17
Front Door Speaker RH
T12
Tweeter LH
F16
Front Door Speaker LH
R22
Rear Door Speaker RH
R21
Rear Door Speaker LH

32 AVENSIS VERSO / PICNIC (RHD) (Cont' d)



FOREWORD

This wiring diagram manual has been prepared to provide information on the electrical system of the AVENSIS VERSO / PICNIC.

Applicable models: AMC20, CLM20 Series

For service specifications and repair procedures of the above models other than those listed in this manual, refer to the following manuals;

Manual Name	Pub. No.
● AVENSIS VERSO / PICNIC Chassis and Body Repair Manual	RM864E
● 1AZ–FE Engine Repair Manual	RM865E
● 1CD–FTV Engine Repair Manual	RM866E
● AVENSIS VERSO / PICNIC New Car Features	NCF206E

All information in this manual is based on the latest product information at the time of publication. However, specifications and procedures are subject to change without notice.

TOYOTA MOTOR CORPORATION

NOTICE

When handling supplemental restraint system components (removal, installation or inspection, etc.), always follow the direction given in the repair manuals listed above to prevent accidents and supplemental restraint system malfunction.

Dummy

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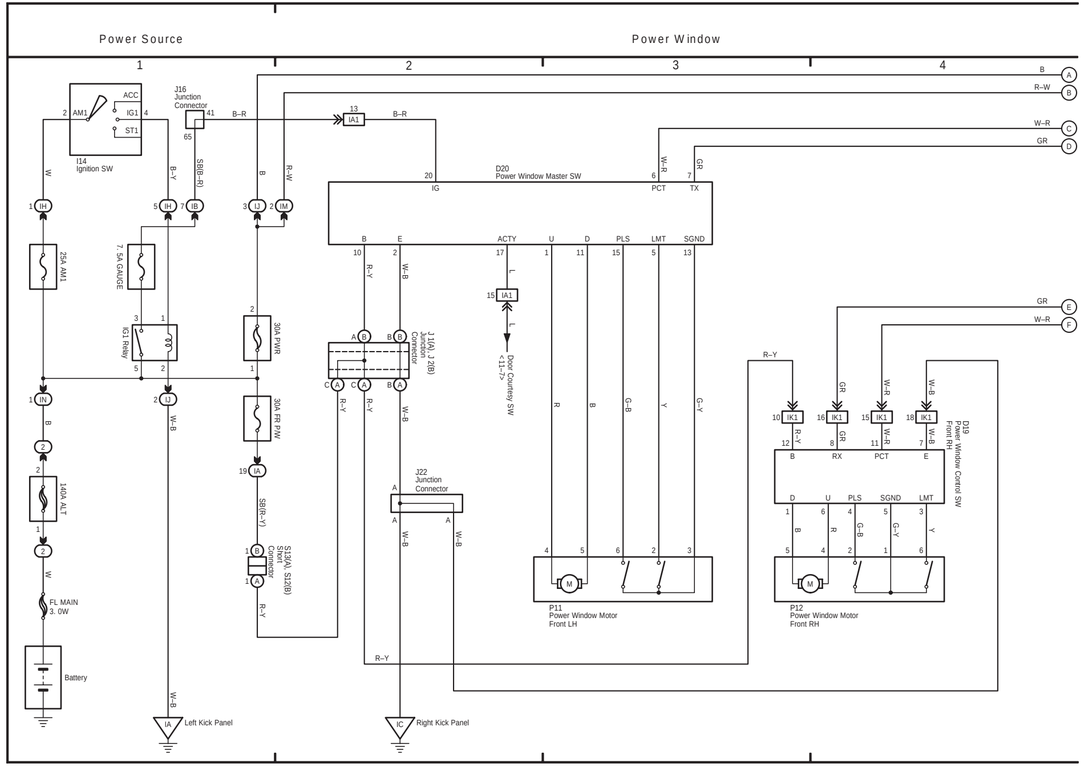
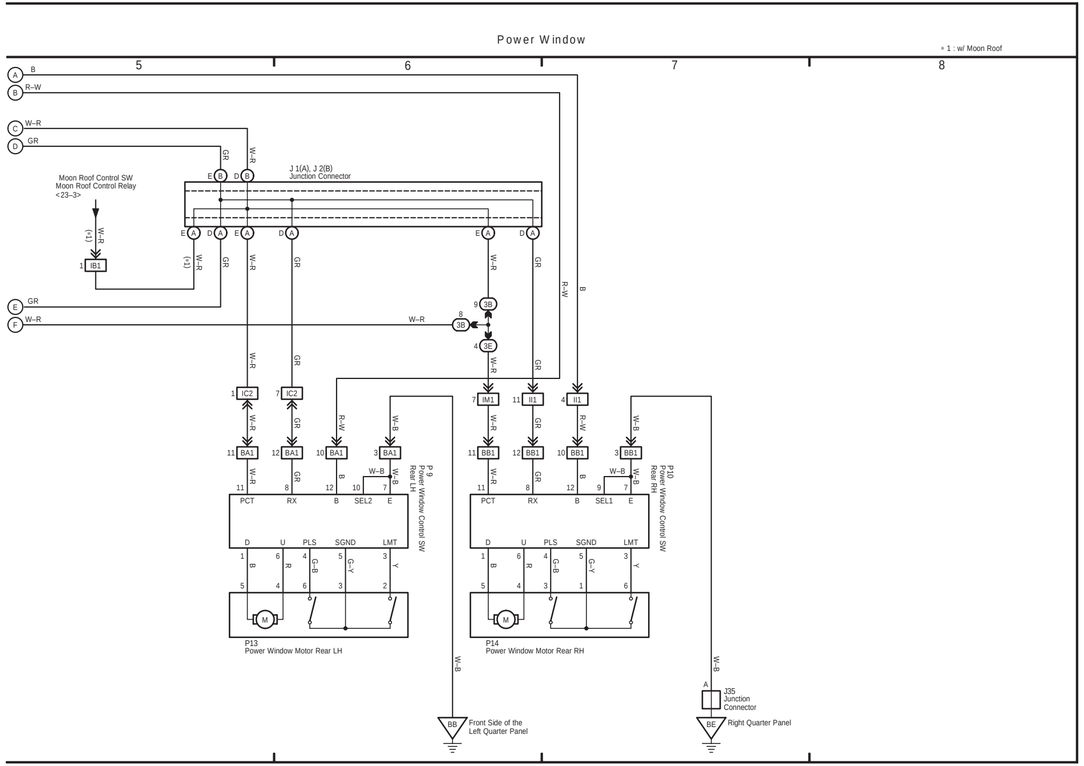
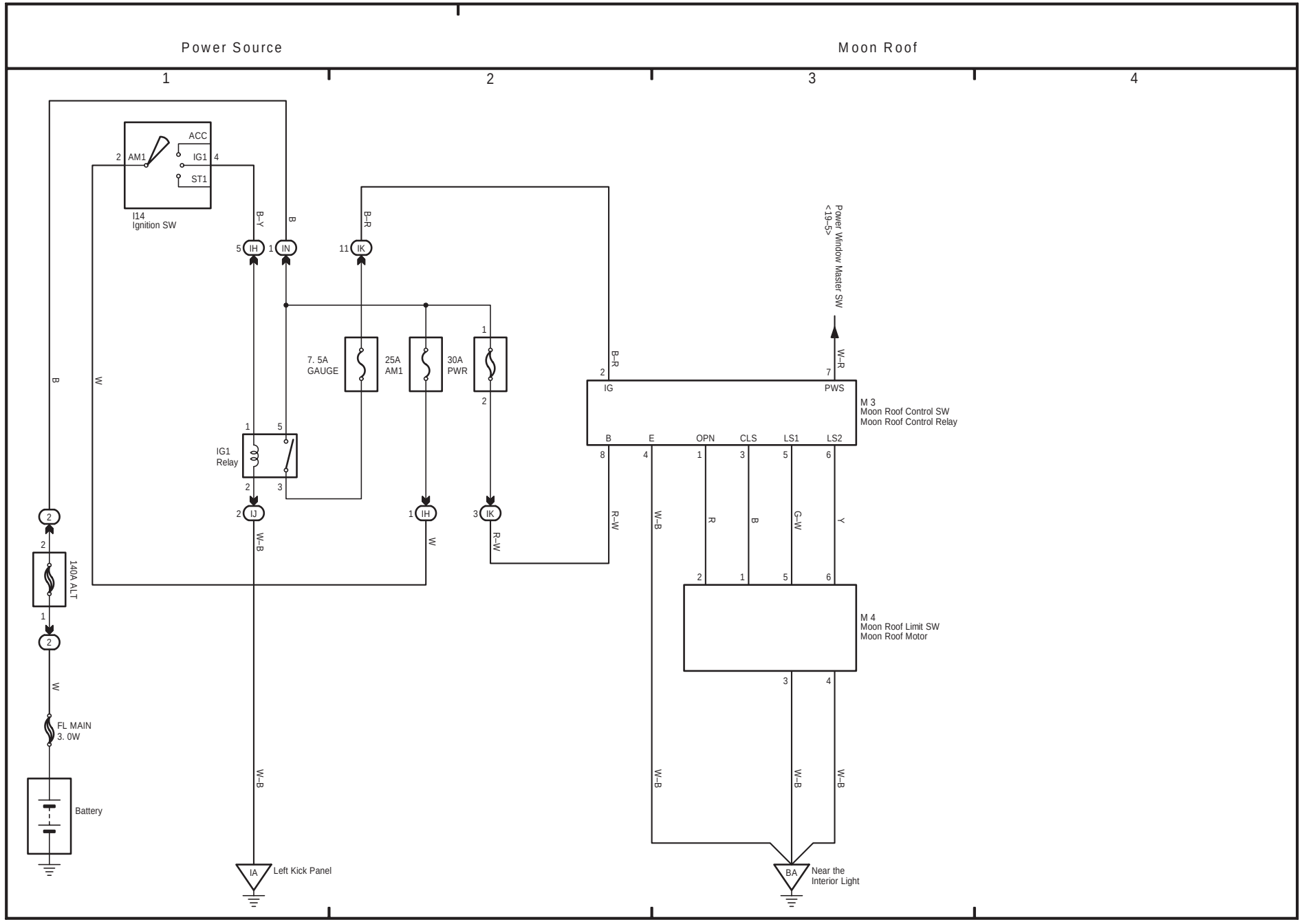




23 AVENSIS VERSO / PICNIC (LHD)



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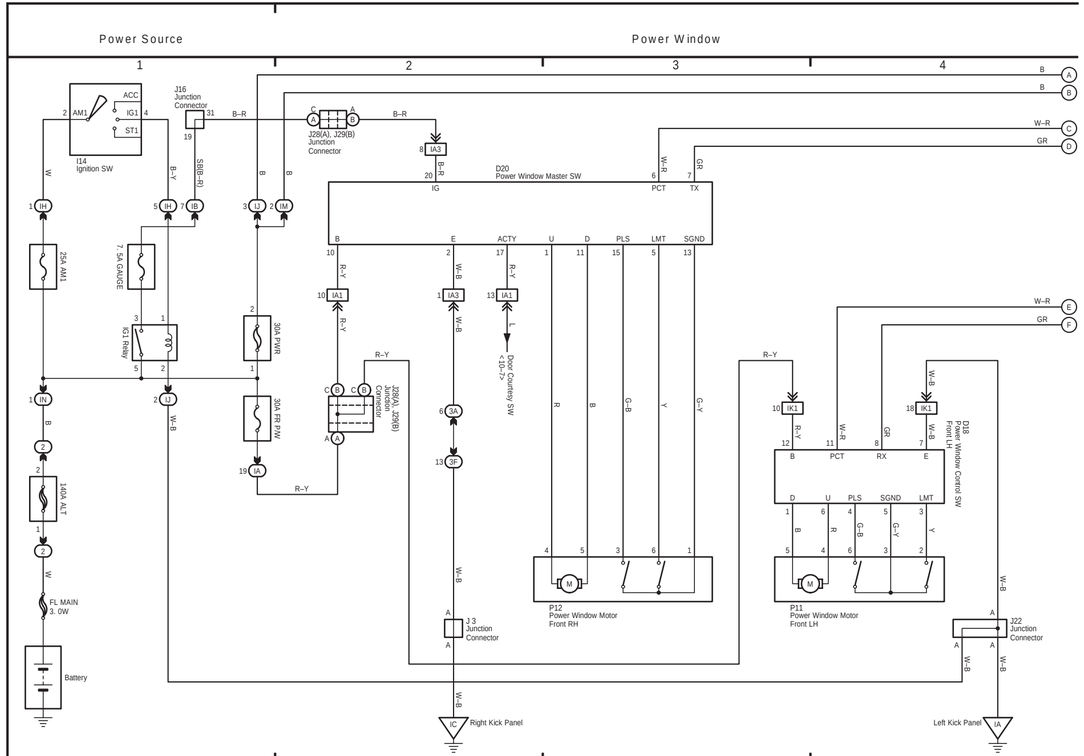

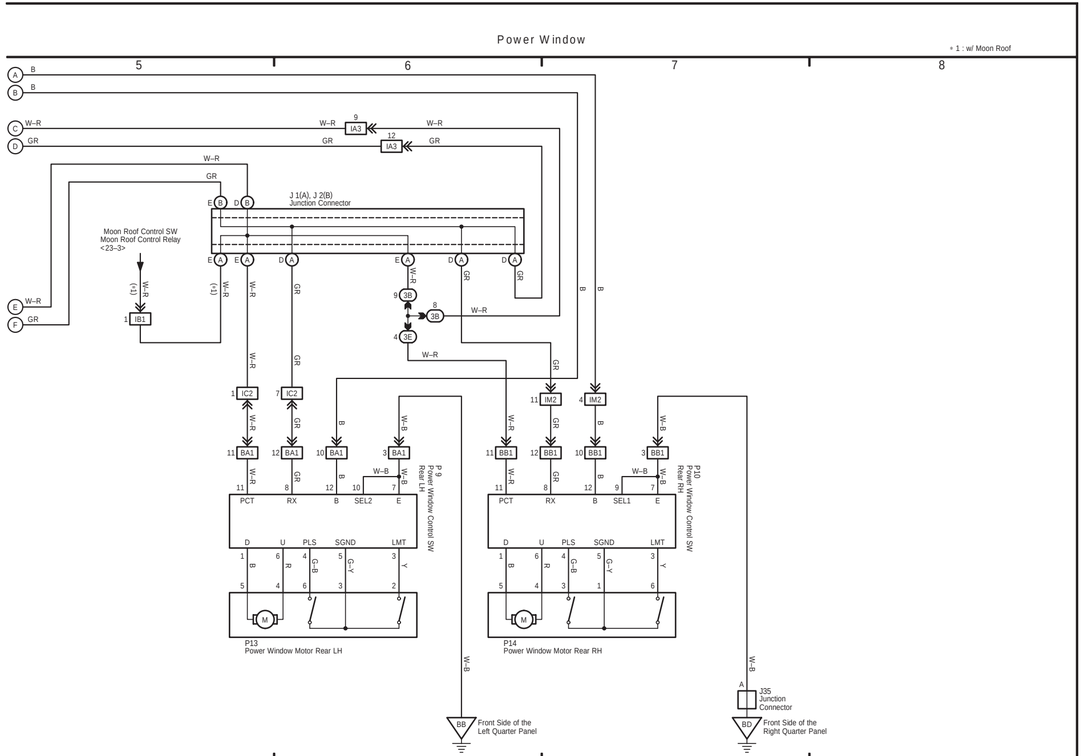

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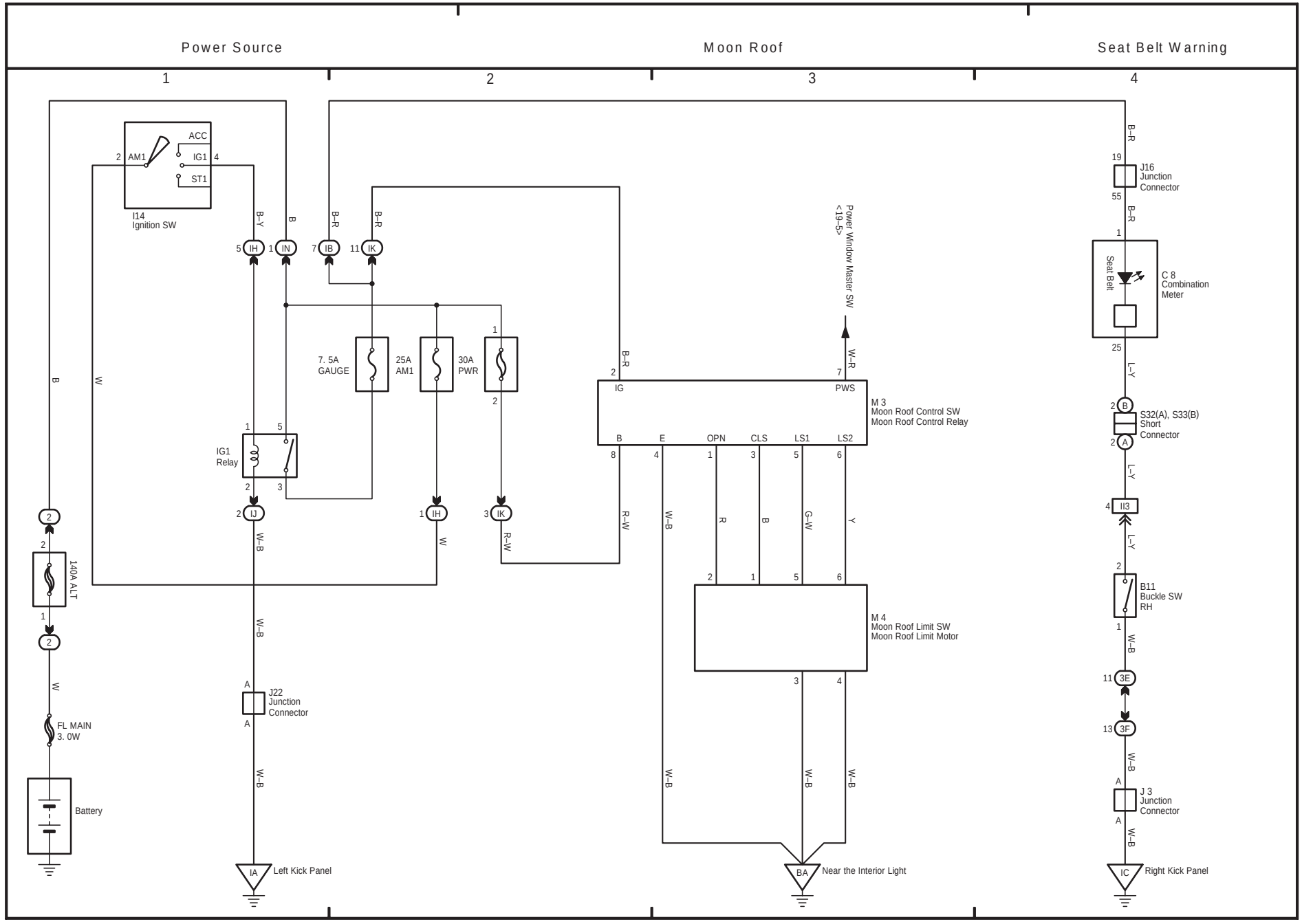
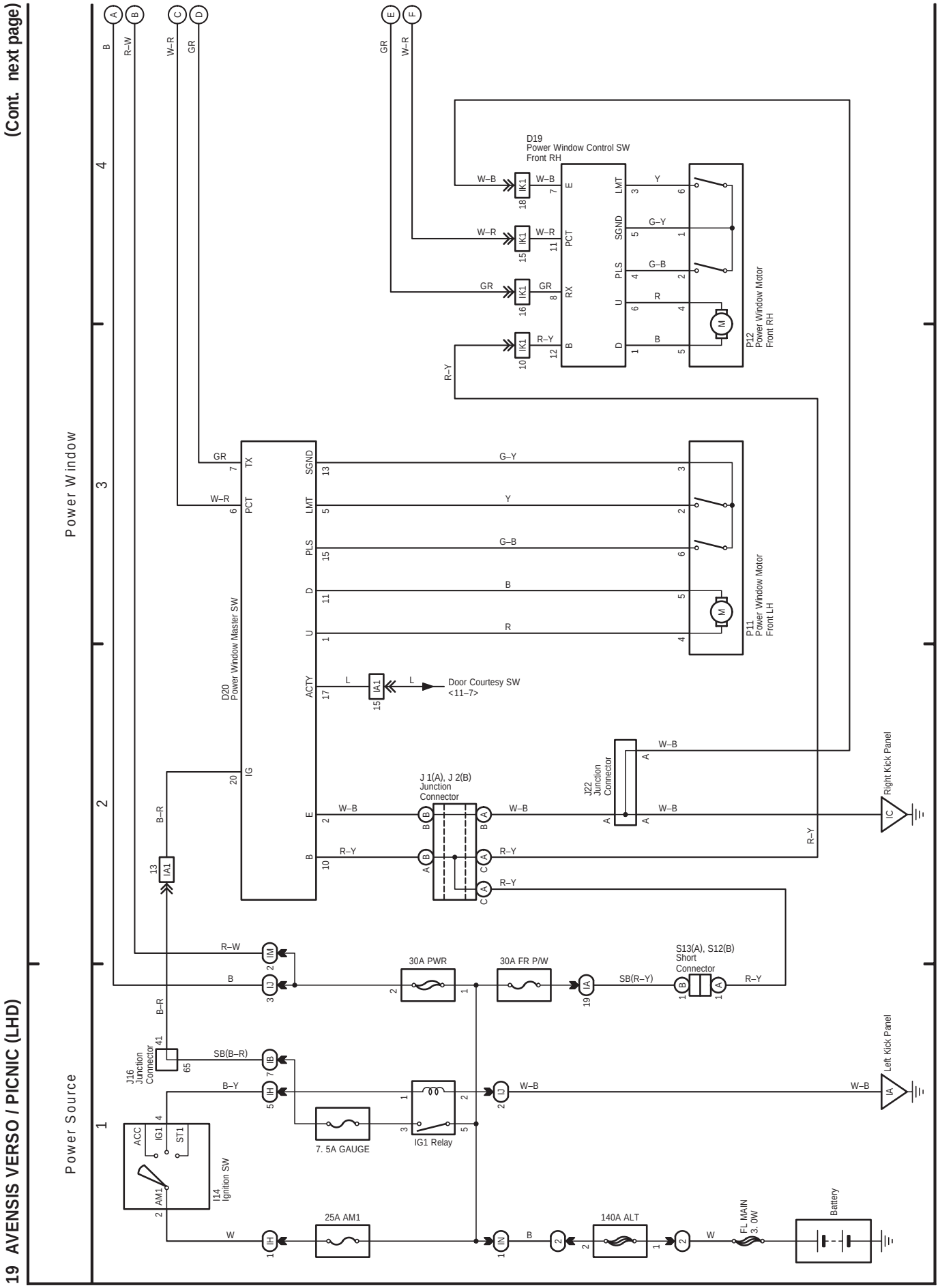
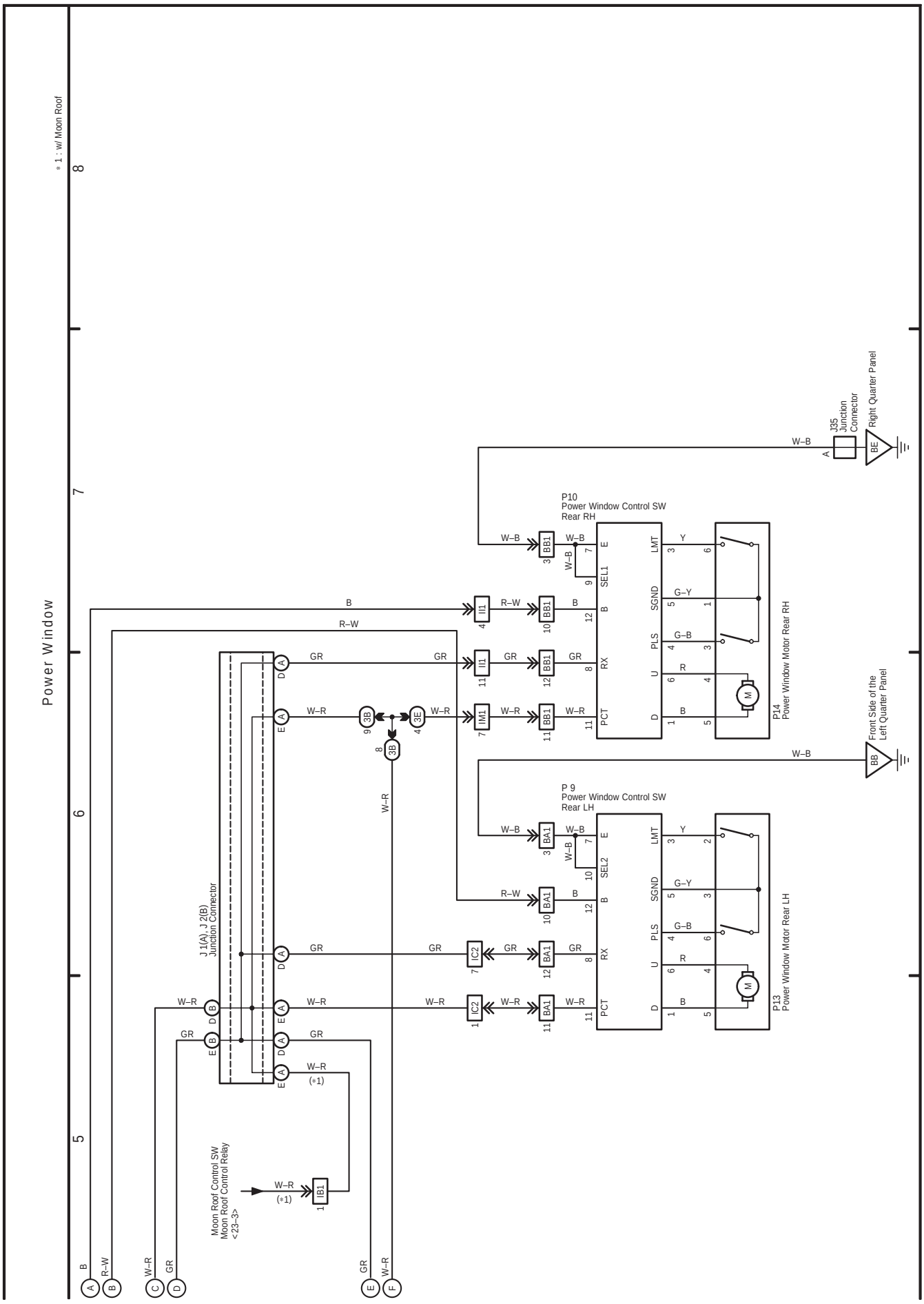
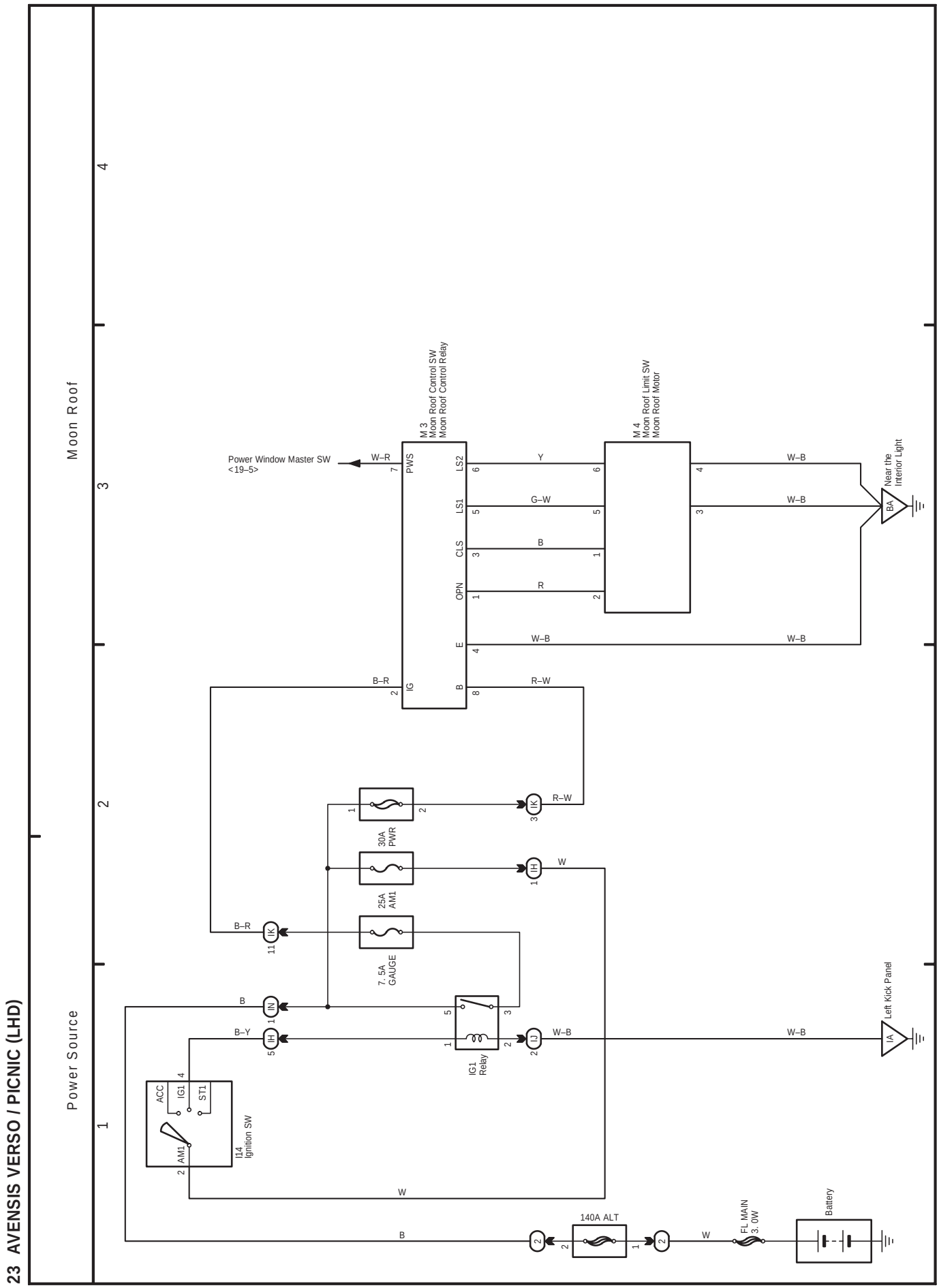


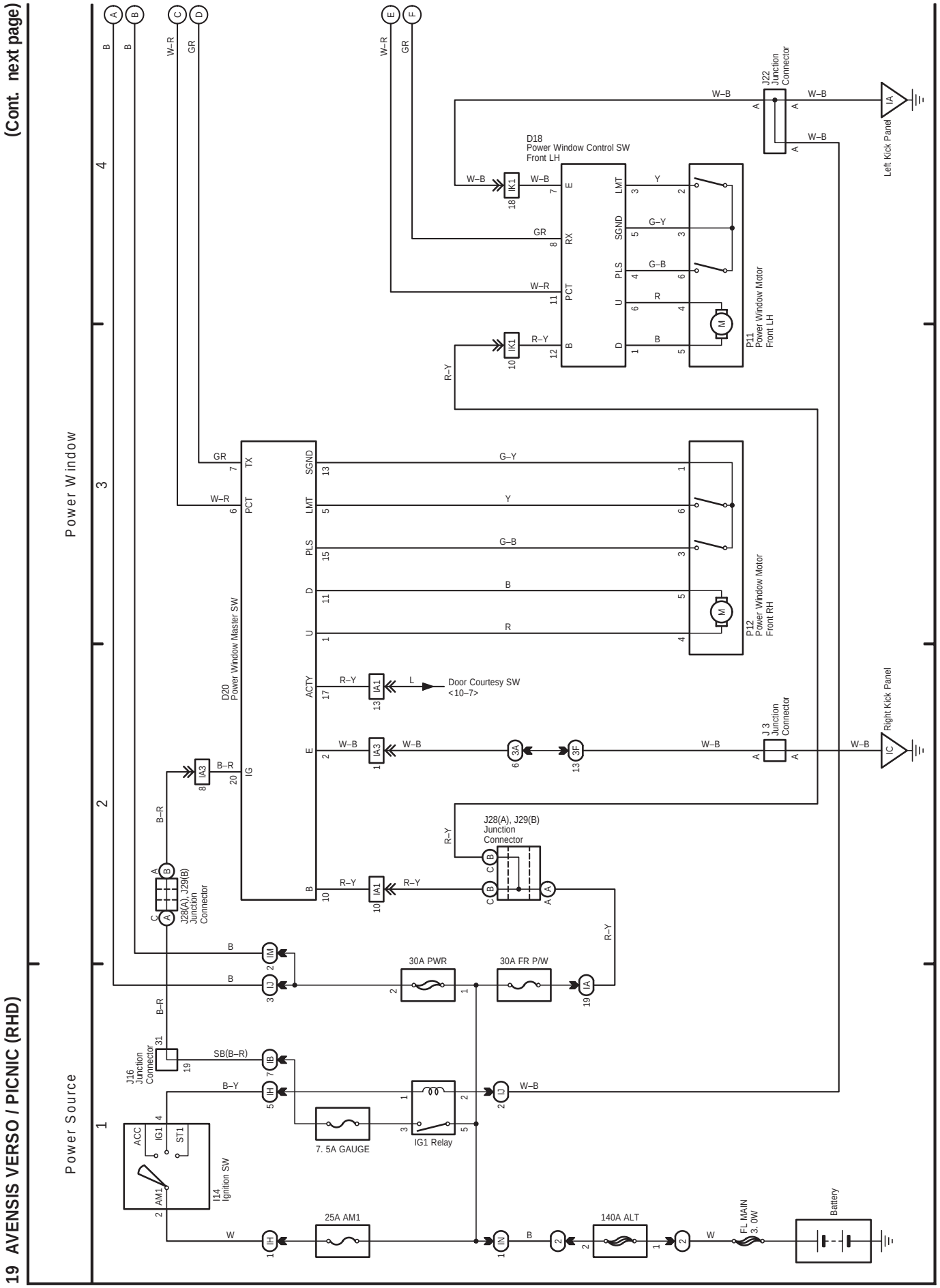
OVERALL ELECTRICAL WIRING DIAGRAM

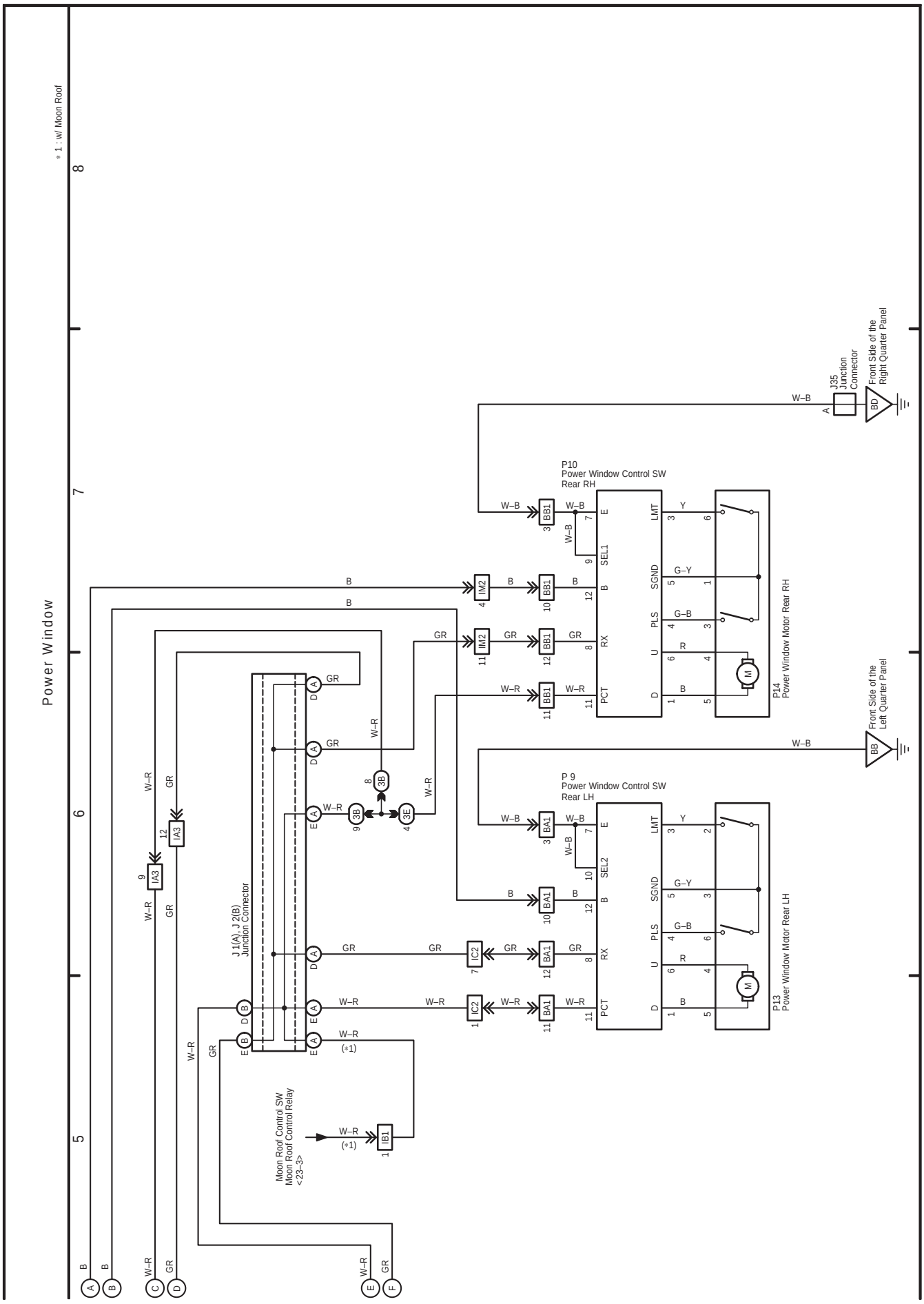
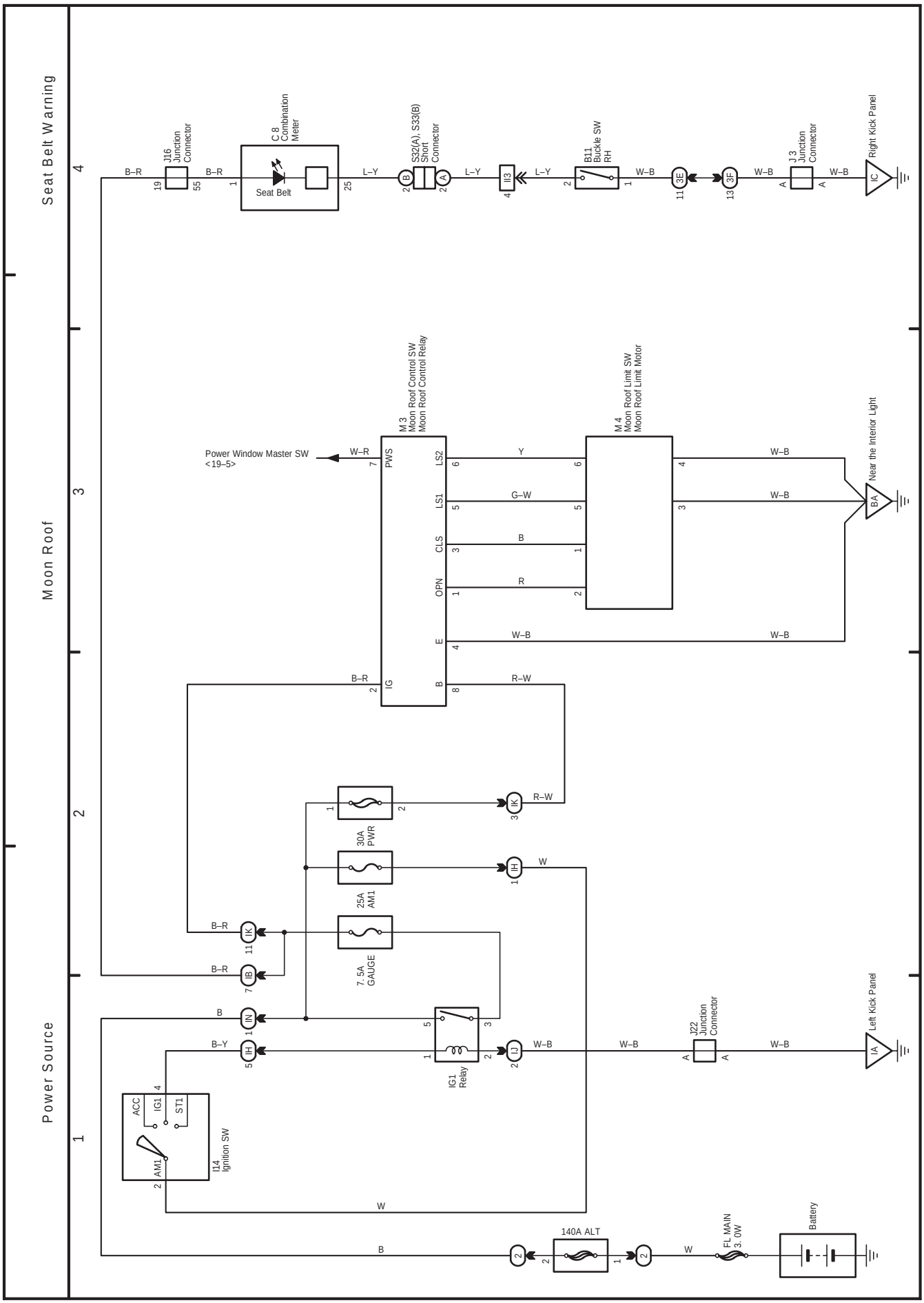



19 AVENSIS VERSO / PICNIC (LHD) (Cont' d)
Power Window
* 1 : w/ Moon Roof
J35 Junction Connector
Right Quarter Panel
P10 Power Window Control SW Rear RH
P14 Power Window Motor Rear RH
Front Side of the Left Quarter Panel
P 9 Power Window Control SW Rear LH
P13 Power Window Motor Rear LH
J 1(A), J 2(B) Junction Connector
Moon Roof Control SW
Moon Roof Control Relay <23–3>
W–B
R–W
W–R
GR
B
G–Y
G–B
(*1)


23 AVENSIS VERSO / PICNIC (LHD)
Power Source
Moon Roof
1
2
3
4
Power Window Master SW
<19–5>
W–R
PWS
M 3
Moon Roof Control SW
Moon Roof Control Relay
LS2
LS1
CLS
OPN
E
IG
B
B–R
R–W
Y
G–W
B
R
W–B
M 4
Moon Roof Limit SW
Moon Roof Motor
Near the
Interior Light
BA
30A
PWR
25A
AM1
7. 5A
GAUGE
IK
IH
IN
IJ
IA
W
B–Y
IG1
Relay
Left Kick Panel
ACC
IG1
ST1
AM1
I14
Ignition SW
140A ALT
FL MAIN
3. 0W
Battery

OVERALL ELECTRICAL WIRING DIAGRAM




19 AVENSIS VERSO / PICNIC (RHD) (Cont' d)
Power Window
* 1 : w/ Moon Roof
P10
Power Window Control SW
Rear RH
P14
Power Window Motor Rear RH
P 9
Power Window Control SW
Rear LH
P13
Power Window Motor Rear LH
J35
Junction
Connector
Front Side of the
Right Quarter Panel
Front Side of the
Left Quarter Panel
J 1(A), J 2(B)
Junction Connector
Moon Roof Control SW
Moon Roof Control Relay
<23–3>
W–B
B
GR
W–R
G–Y
G–B
LMT
SEL1
SEL2
SGND
PLS
RX
PCT
(*1)

OVERALL ELECTRICAL WIRING DIAGRAM