

2007 ES 350

ELECTRICAL WIRING DIAGRAM

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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.

FOREWORD

This wiring diagram manual has been prepared to provide information on the electrical system of the 2007 ES 350.

Applicable models: GSV40 Series

Refer to the following manuals for additional service specifications and repair procedures for these models:

Manual Name	Pub. No.
● 2007 LEXUS ES 350 Repair Manual	RM01Y0U
● 2007 LEXUS ES 350 New Car Features	NM01Y0U

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.

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NOTICE

Always follow the directions given in the above repair manuals when handling supplemental restraint system components (such as removal, installation, inspection, etc.) in order to prevent accidents and supplemental restraint system malfunction.

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First Printing : Mar. 03, 2006 01-060303-00

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.)

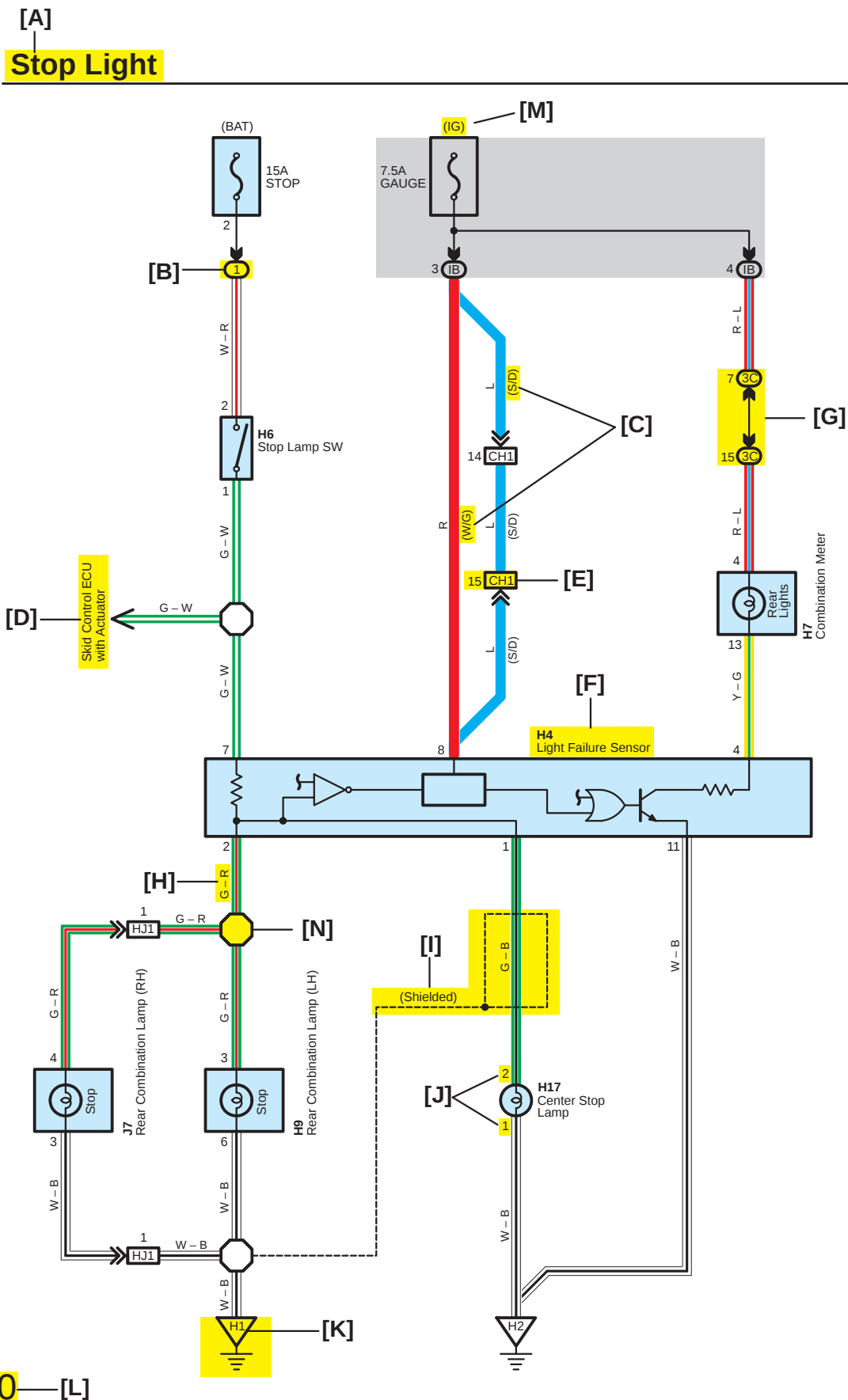
When troubleshooting any problem, first understand the operation of the circuit where the problem was detected (see System Circuit section), the power source supplying power to that circuit (see Power Source section), and the ground points (see Ground Point section). See the System Outline to understand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

B HOW TO USE THIS MANUAL

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



[A] : System Title

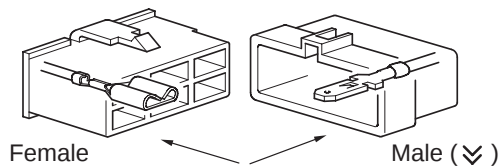
[B] : Indicates a Relay Block. No shading is used and only the Relay Block No. is shown to distinguish it from the J/B

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 code for the (male and female) connectors which are used to join two wire harnesses. The connector code consists of two alphabetical and one numerical characters.



The first character of the connector code indicates the alphabetical code allocated to the wire harness which has the female connector, and the second shows that of the wire harness which has the male connector.

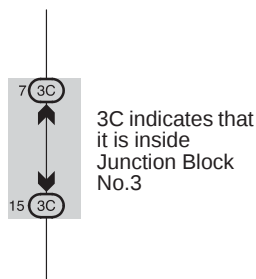
The third character indicates a serial number used to distinguish between the wire harness combinations in cases when more than one of the same combination of wire harnesses exist (e.g. CH1 and CH2).

Symbol (≡) indicates the male terminal connector. Numbers outside connector codes indicate the pin numbers of both male and female connectors.

[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:



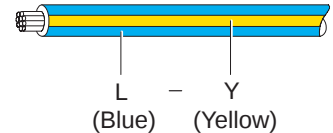
[H] : Indicates the wiring color.

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

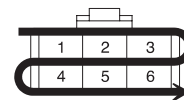


[I] : Indicates a shielded cable.



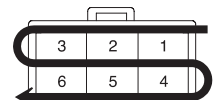
[J] : Indicates the pin number of the connector. The numbering system is different for female and male connectors.

Example: Numbered in other from upper left to lower right



Female

Numbered in other from upper right to lower left



Male

[K] : Indicates the ground point. The code consists of the two characters: A letter and number.

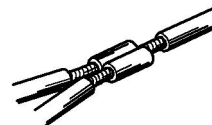
The first character of the code indicates the alphabetical code allocated to the wire harness. The second character indicates a serial number used to distinguish between the ground points in cases when more than one ground point exist on the same wire harness.

[L] : Page No.

[M] : Indicates the ignition key position(s) when the power is supplied to the fuse(s).

[N] : Indicates a wiring Splice Point.

Example:



B HOW TO USE THIS MANUAL

[O]

System Outline

Current is applied at all times through the STOP fuse to TERMINAL 2 of the stop lamp 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 lamp 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.

[P]



: Parts Location

Code	See Page	Code	See Page	Code	See Page
H4	36	H7	36	H17	38
H6	36	H9	38	J7	38

[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)
3C	22	Instrument Panel Wire and J/B No.3 (Instrument Panel Brace LH)
IB	20	Instrument Panel Wire and Instrument Panel J/B (Lower Finish Panel)

[S]



: Connector Joining Wire Harness and Wire Harness

Code	See Page	Joining Wire Harness and Wire Harness (Connector Location)
CH1	42	Engine Room Main Wire and Instrument Panel Wire (Left Kick Panel)
HJ1	50	Instrument Panel Wire and Floor Wire (Right Kick Panel)

[T]



: Ground Points

Code	See Page	Ground Points Location
H1	50	Under the Left Center Pillar
H2	50	Back Panel Center

[O] : Explains the system outline.

[P] : Indicates reference pages showing the parts locations in the system circuit on the vehicle.

Example : Code "H4" (Light Failure Sensor) is on page 36 of the manual.

* The first character of the code indicates the alphabetical code allocated to the wire harness, and the second character indicates the serial number of the parts connected to the wire harness.

Example : H 4
 └── Serial number for the connected parts
 └── Code for the wire harness

[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 "CH1" connects the Engine Room Main 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.

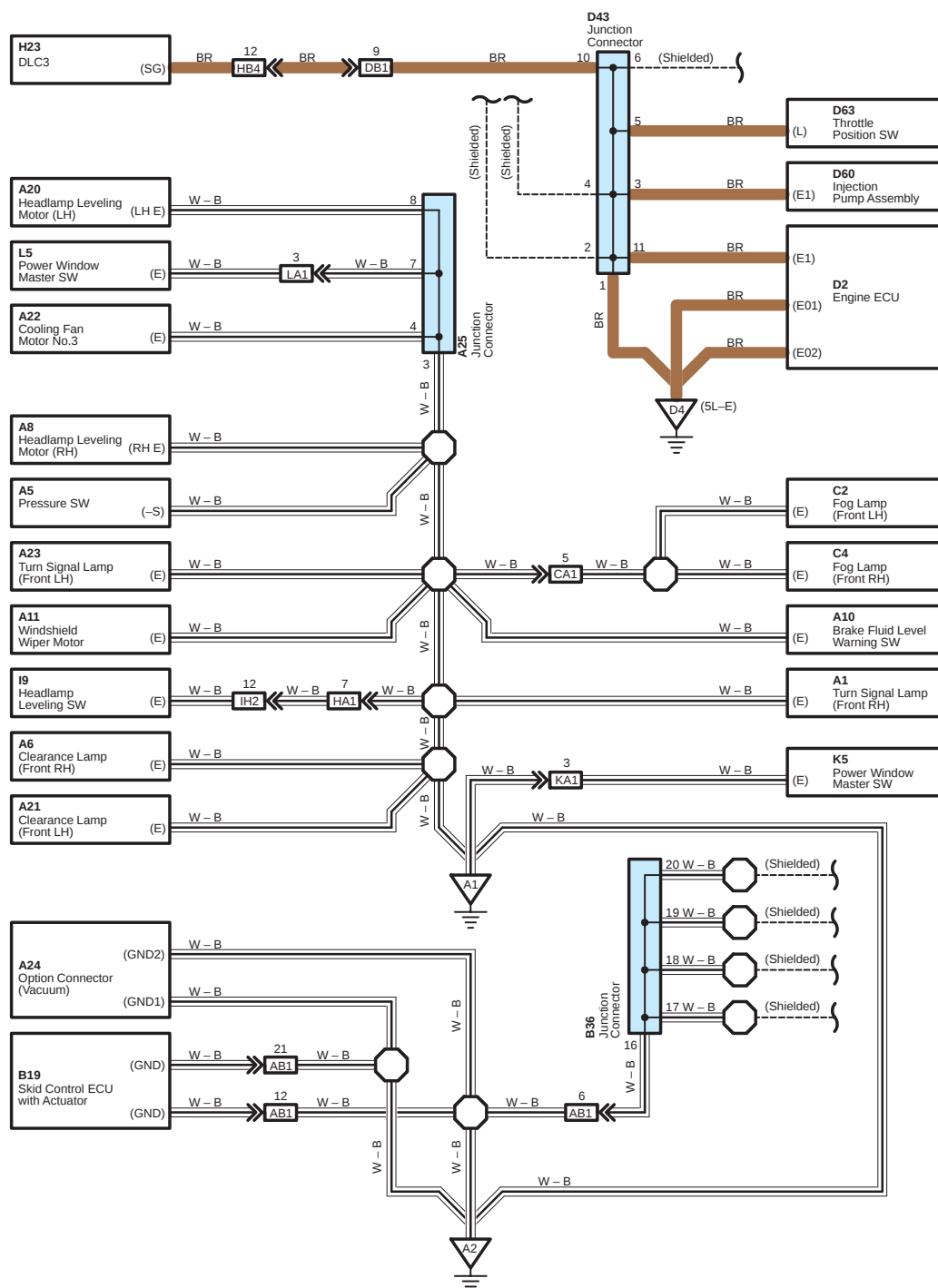
[T] : Indicates the reference page showing the position of the ground points on the vehicle.

Example : Ground point "H2" is described on page 50 of this manual and is installed on the back panel center.

B HOW TO USE THIS MANUAL

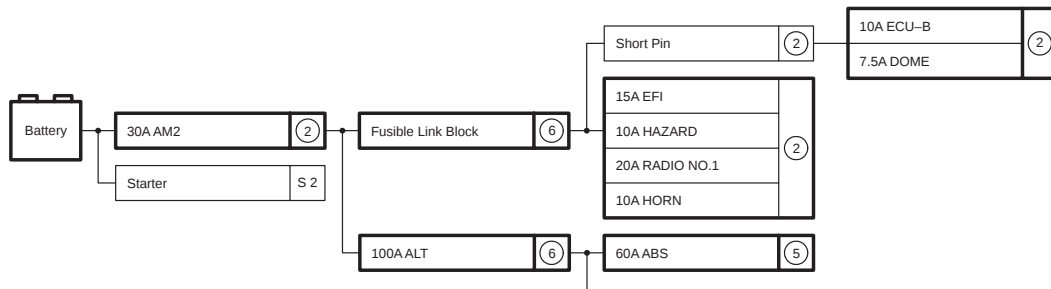
The ground points circuit diagram shows the connections from all major parts to the respective ground points. When troubleshooting a faulty ground point, checking the system circuits which use a common ground may help you identify the problem ground quickly. The relationship between ground points ($\nabla A1$, $\nabla A2$ and $\nabla D4$ 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 chart below shows the route by which current flows from the battery to each electrical source (Fusible Link, Circuit Breaker, Fuses, etc.) and other parts



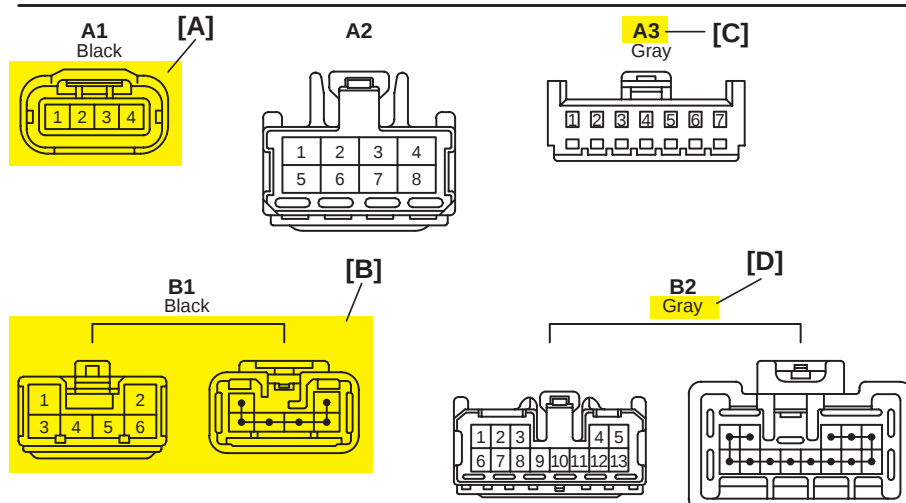
Fuse		System	Page
20A	STOP	ABS	194
		ABS and Traction Control	187
		Cruise Control	180
		Electronically Controlled Transmission	166
		Multiplex Communication System	210
10A	DOME	Cigarette Lighter	214
		Combination Meter	230
		Headlight	112
		Interior Light	122
		Key Reminder and Seat Belt Warning	
	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

The diagram illustrates the electrical system for a 1965 Ford Mustang coupe. The battery is connected to a 1.25B FL MAIN fuse, which then splits into two main branches. The upper branch goes through a 50A MAIN fuse to a 7.5A DOME fuse, which controls the dome light. The lower branch goes through a 7.5A AM1 fuse to a 15A HAZ-RADIO fuse, which controls the hazard lights and radio. Both branches then connect to a central junction point. From this junction, the system branches out to an H8 Ignition SW (controlling the ACC, IG1, ST1, IG2, and ST2 circuits) and a 20A DEFOG fuse, which controls the defogger. The diagram uses color-coded wires: black for battery, white for main, red for dome, and yellow for defogger. The H8 Ignition SW is shown with its internal contacts and the HAZ-RADIO fuse is shown with its internal contacts.

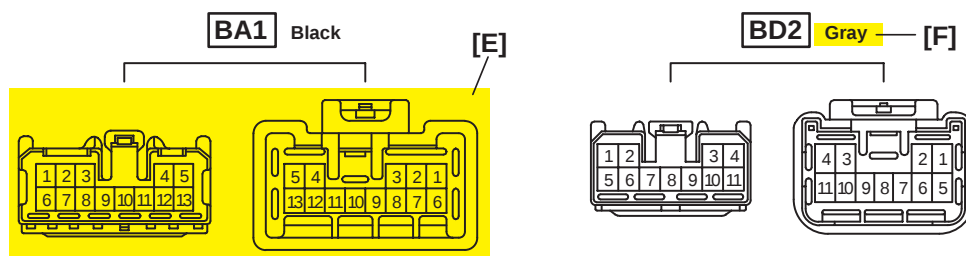
9

B HOW TO USE THIS MANUAL

K CONNECTOR LIST

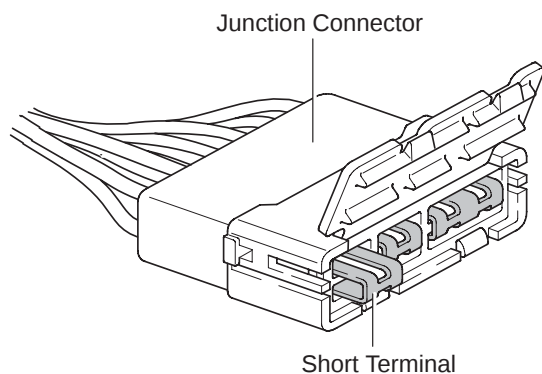


K CONNECTOR LIST



[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.

[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.

[E] : Indicates the connector shapes which are used to join wire harnesses.
On Left : Female connector shapes
On Right : Male connector shapes
Numbers indicate pin numbers.

[F] : Indicates connector colors. (Connectors with not indicated colors are white)

L PART NUMBER OF CONNECTORS

Code	Part Name	Part Number	Code	Part Name	Part Number
A1	Turn Signal Lamp (Front RH)	90980-11019	B22	Door Courtesy SW (Front LH)	90980-12470
A2	Inlet Air Temp. Sensor	90980-11163	B23	Front Seat Outer Belt (LH)	90980-12253
A3	Air Flow Meter	90980-12292	B24	Blower SW (Rear Heater)	90980-10463
A4	A/C Pressure Sensor	90980-10845	B25	Front Seat Outer Belt (RH)	90980-12253
A5	Pressure SW	90980-10943	B26	Door Courtesy SW (Front RH)	90980-12470
A6	Clearance Lamp (Front RH)	90980-11156	B27	Cooling Fan ECU No.1	90980-10841
[A]	Headlamp [B] (LH)	909-[C] 314	B28	Cooling Fan ECU No.2	
A8	Headlamp Leveling Motor (RH)	90980-11016	B29	Water Temp. Sensor (Radiator)	90980-10735
A9	Brake Vacuum Warning SW	90980-11252	B30	Fuel Filter Warning SW	90980-11003
A10	Brake Fluid Level Warning SW	90980-11207	B32	Door Control Relay (LH)	90980-10789
A11	Windshield Washer Motor	90980-11599	B33	Step Lamp (LH)	90980-10121
A12	Airbag Sensor (Front RH)	90980-11856	B34	Junction Connector	90980-11398
A13	Airbag Sensor (Front LH)	90980-12490	B35	Junction Connector	

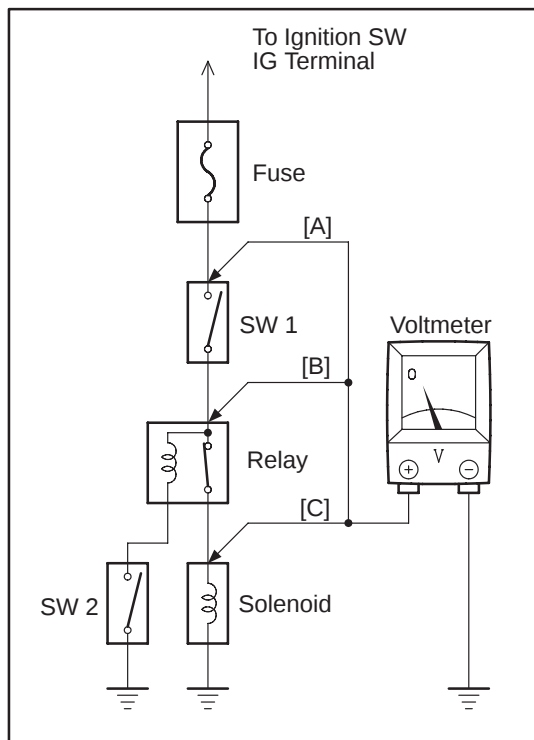
[A] : Part Code

[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.

C TROUBLESHOOTING



VOLTAGE CHECK

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

Example:

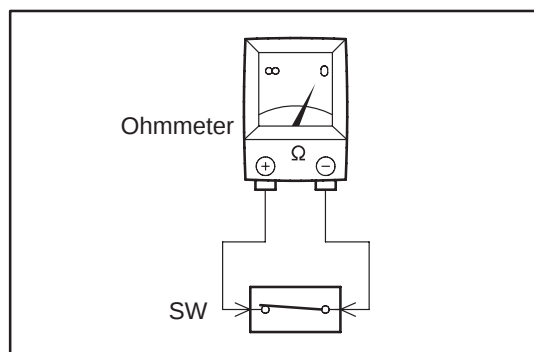
[A] – Ignition SW on

[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.

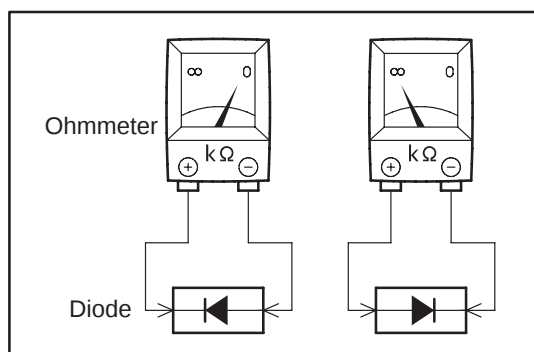
This check can be done with a test light instead of a voltmeter.



CONTINUITY AND RESISTANCE CHECK

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

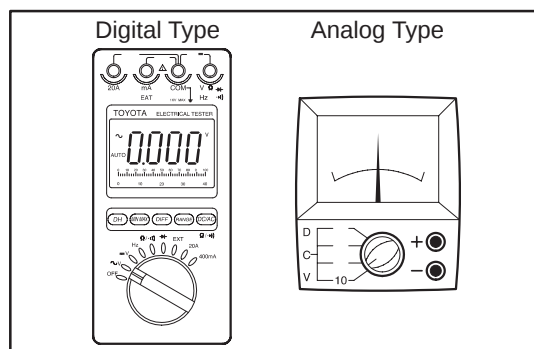
- (b) Contact the two leads of an ohmmeter to each of the check points.



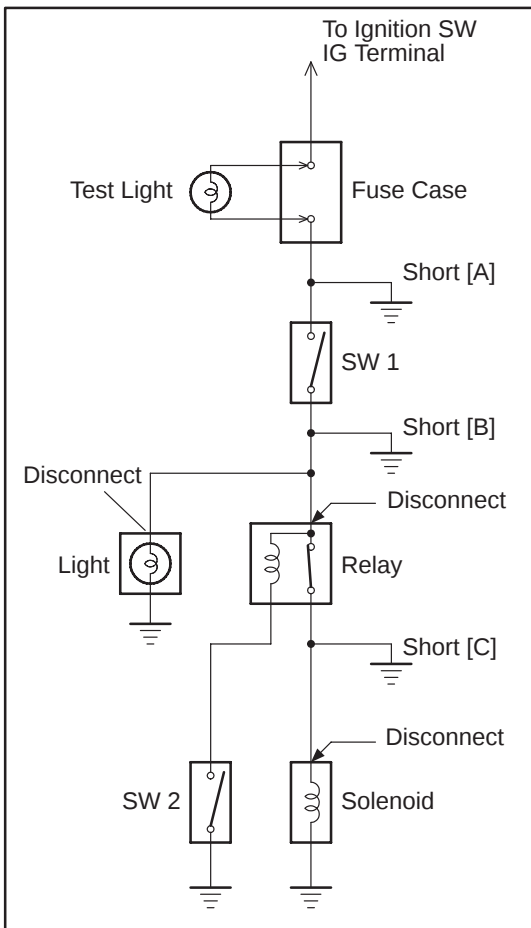
If the circuit has diodes, reverse the two leads and check again.

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 k Ω /V minimum) for troubleshooting of the electrical circuit.



FINDING A SHORT CIRCUIT

- Remove the blown fuse and disconnect all loads of the fuse.
- Connect a test light in place of the fuse.
- 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)

- 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.
- Find the exact location of the short by lightly shaking the problem wire along the body.

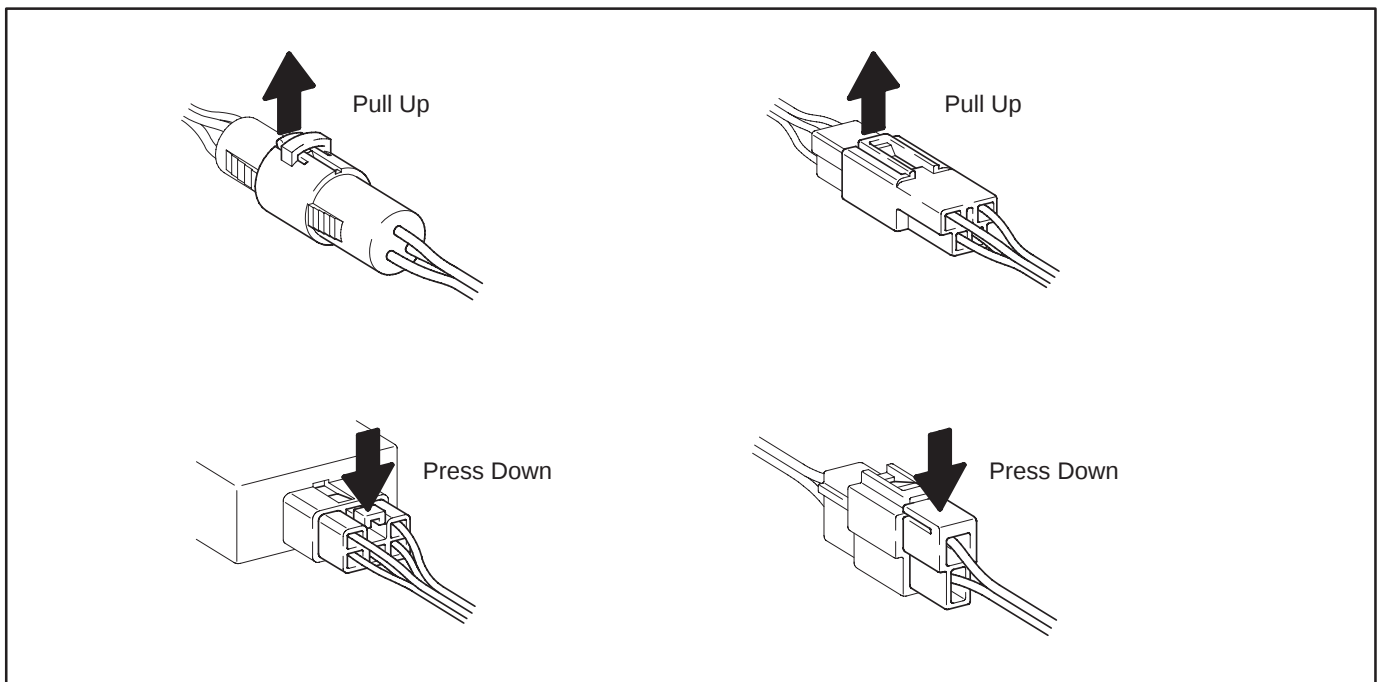
CAUTION:

- 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.)
- 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).

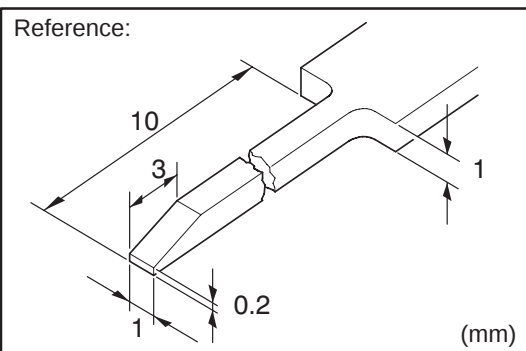
DISCONNECTION OF MALE AND FEMALE CONNECTORS

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.



C TROUBLESHOOTING



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.

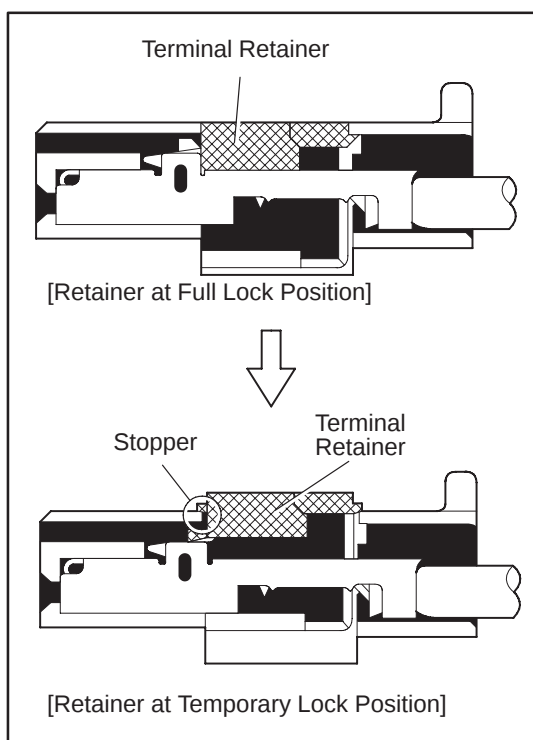
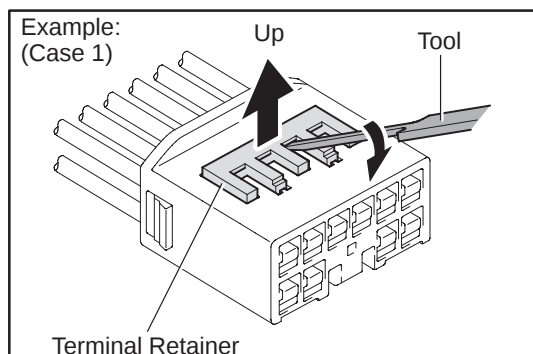
2. DISCONNECT CONNECTOR

3. DISENGAGE THE SECONDARY LOCKING DEVICE OR TERMINAL RETAINER.

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

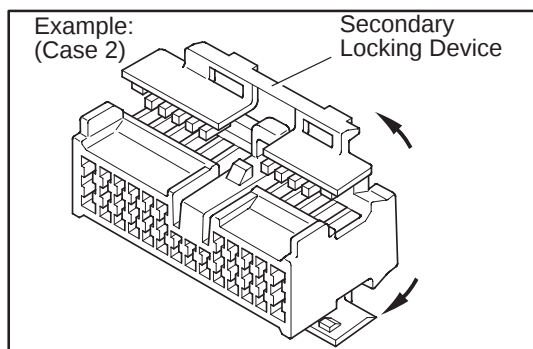
HINT : The needle insertion position varies according to the connector's shape (number of terminals etc.), so check the position before inserting it.

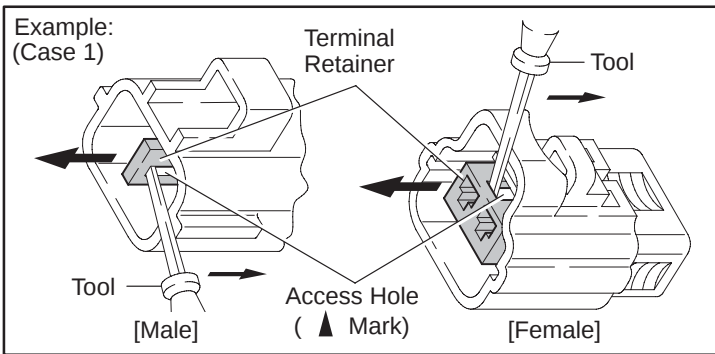
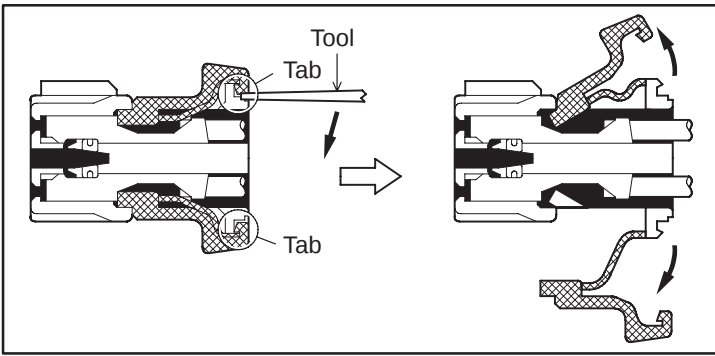
"Case 1"

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.

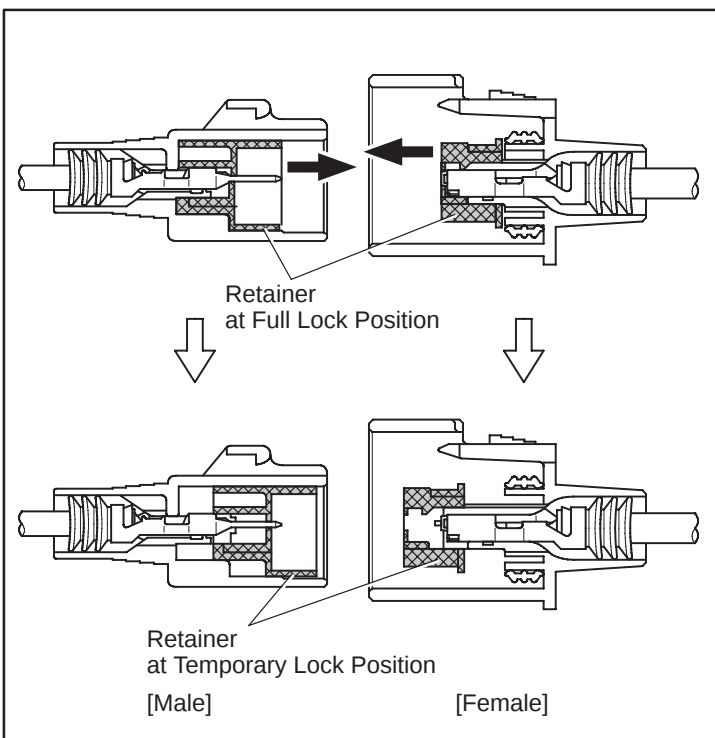
Example:

Terminal Retainer : Connector Body

Black or White : Gray

Black or White : Dark Gray

Gray or White : Black

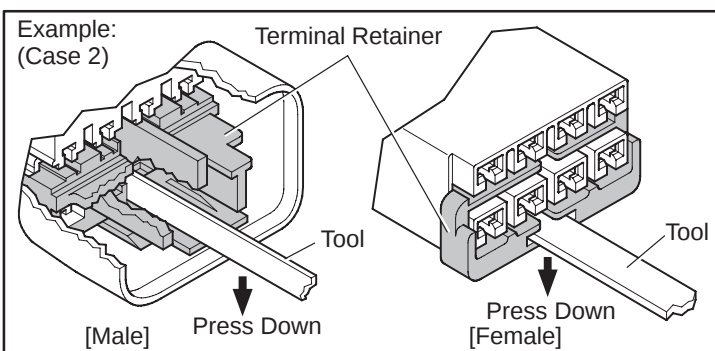


"Case 1"

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.

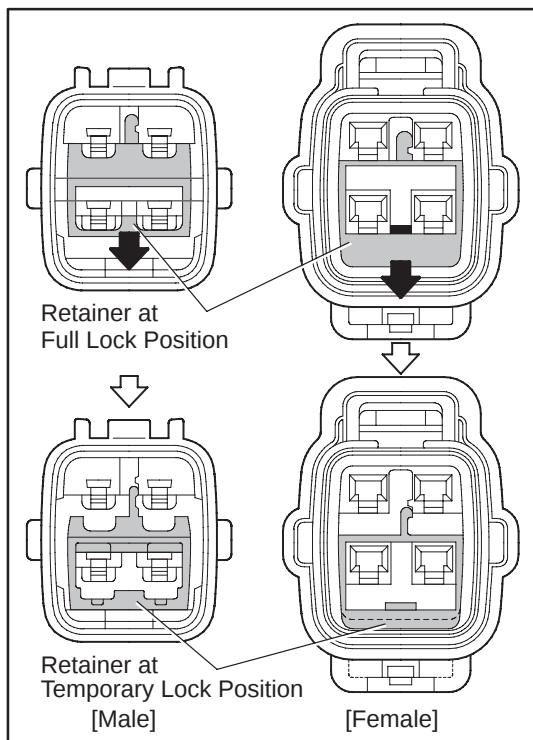
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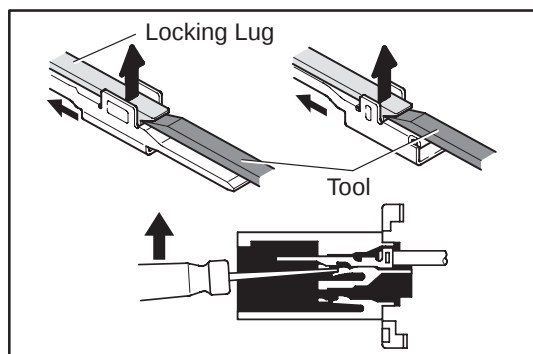
"Case 2"

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

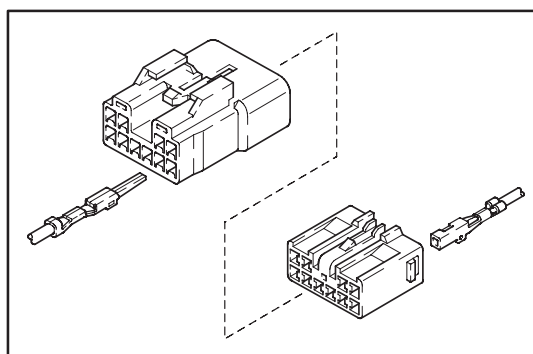
C TROUBLESHOOTING



Push the terminal retainer down to the temporary lock position.



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

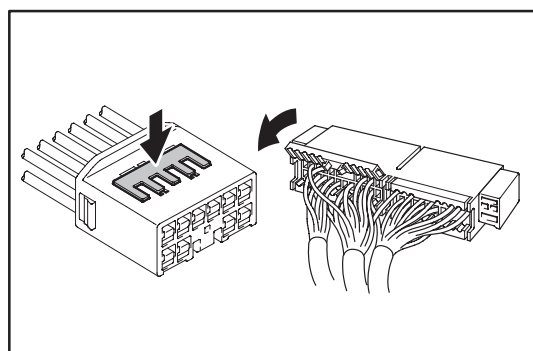


4. INSTALL TERMINAL TO CONNECTOR

(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

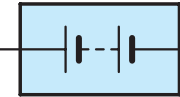
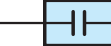
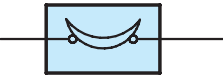
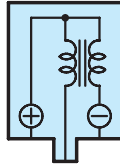
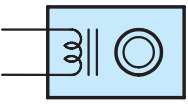
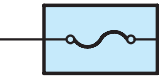
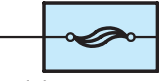
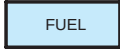
ABBREVIATIONS

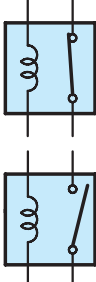
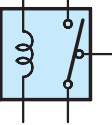
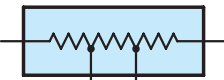
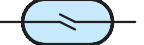
The following abbreviations are used in this manual.

A/C	=	Air Conditioning
A/T	=	Automatic Transaxle
ABS	=	Anti-Lock Brake System
ACIS	=	Acoustic Control Induction System
AFS	=	Adaptive Front-Lighting System
CAN	=	Controller Area Network
DVD	=	Digital Versatile Disc
EC	=	Electrochromic
ECU	=	Electronic Control Unit
ESA	=	Electronic Spark Advance
ETCS-i	=	Electronic Throttle Control System-intelligent
FL	=	Fusible Link
HID	=	High Intensity Discharge
IC	=	Integrated Circuit
J/B	=	Junction Block
LCD	=	Liquid Crystal Display
LH	=	Left-Hand
R/B	=	Relay Block
RH	=	Right-Hand
SFI	=	Sequential Multiport Fuel Injection
SRS	=	Supplemental Restraint System
SW	=	Switch
TEMP.	=	Temperature
TRAC	=	Traction Control
VSC	=	Vehicle Stability Control
VSV	=	Vacuum Switching Valve
VVT	=	Variable Valve Timing
VVT-i	=	Variable Valve Timing-intelligent
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.

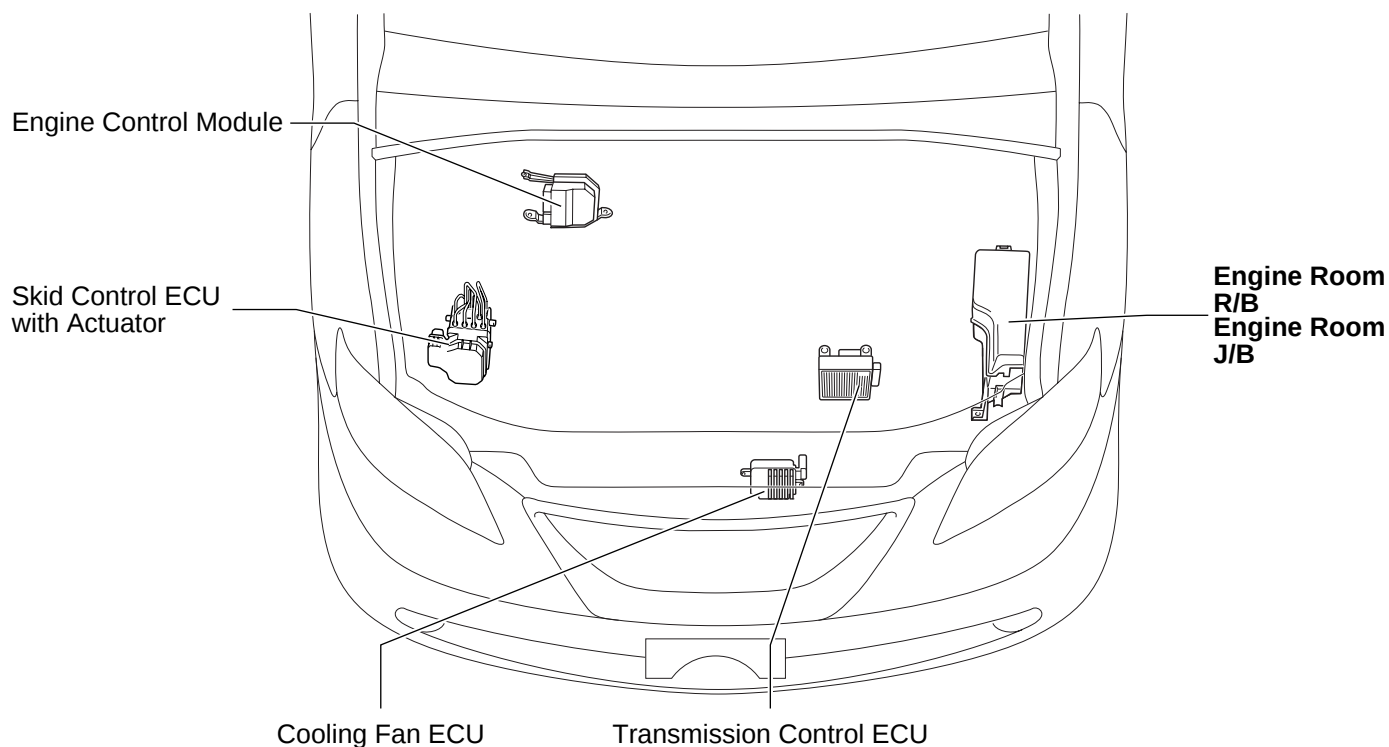
E GLOSSARY OF TERMS AND SYMBOLS

 BATTERY Stores chemical energy and converts it into electrical energy. Provides DC current for the auto's various electrical circuits.	 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.
 CAPACITOR (Condenser) A small holding unit for temporary storage of electrical voltage.	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 1. SINGLE FILAMENT  2. DOUBLE FILAMENT 
 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.	 HORN An electric device which sounds a loud audible signal.
 DIODE A semiconductor which allows current flow in only one direction.	 IGNITION COIL Converts low-voltage DC current into high-voltage ignition current for firing the spark plugs.
 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.	 LIGHT Current flow through a filament causes the filament to heat up and emit light.
 PHOTODIODE The photodiode is a semiconductor which controls the current flow according to the amount of light.	 LED (LIGHT EMITTING DIODE) Upon current flow, these diodes emit light without producing the heat of a comparable light.
 DISTRIBUTOR, IIA Channels high-voltage current from the ignition coil to the individual spark plugs.	 METER, ANALOG Current flow activates a magnetic coil which causes a needle to move, thereby providing a relative display against a background calibration.
 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.  FUSIBLE LINK (for Medium Current Fuse) 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)	 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.

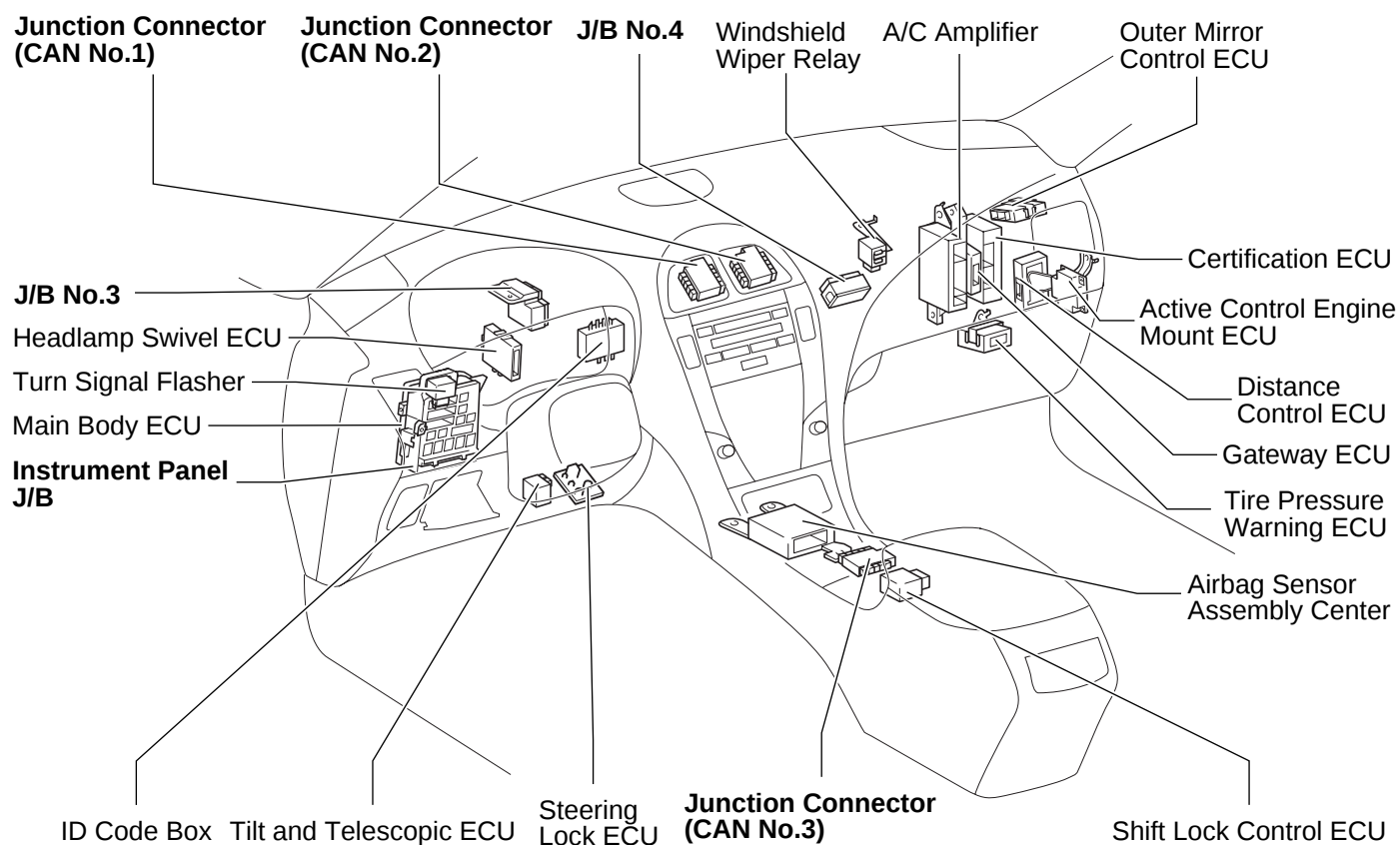
 RELAY Basically, an electrically operated switch which may be normally closed (1) or open (2). Current flow through a small coil creates a magnetic field which either opens or closes an attached switch. 1. NORMALLY CLOSED 2. NORMALLY OPEN	 SPEAKER An electromechanical device which creates sound waves from current flow.
 RELAY, DOUBLE THROW A relay which passes current through one set of contacts or the other.	SWITCH, MANUAL Opens and closes circuits, thereby stopping (1) or allowing (2) current flow. 1. NORMALLY OPEN 2. NORMALLY CLOSED
 RESISTOR An electrical component with a fixed resistance, placed in a circuit to reduce voltage to a specific value.	SWITCH, DOUBLE THROW A switch which continuously passes current through one set of contacts or the other.
 RESISTOR, TAPPED A resistor which supplies two or more different non adjustable resistance values.	SWITCH, IGNITION A key operated switch with several positions which allows various circuits, particularly the primary ignition circuit, to become operational.
 RESISTOR, VARIABLE or RHEOSTAT A controllable resistor with a variable rate of resistance. Also called a potentiometer or rheostat.	SWITCH, WIPER PARK Automatically returns wipers to the stop position when the wiper switch is turned off.
 SENSOR (Thermistor) A resistor which varies its resistance with temperature.	TRANSISTOR A solidstate device typically used as an electronic relay; stops or passes current depending on the voltage applied at "base".
 SENSOR, SPEED Uses magnetic impulses to open and close a switch to create a signal for activation of other components. (Reed Switch Type)	WIRES 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. (1) NOT CONNECTED (2) SPLICED
 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.	

F RELAY LOCATIONS

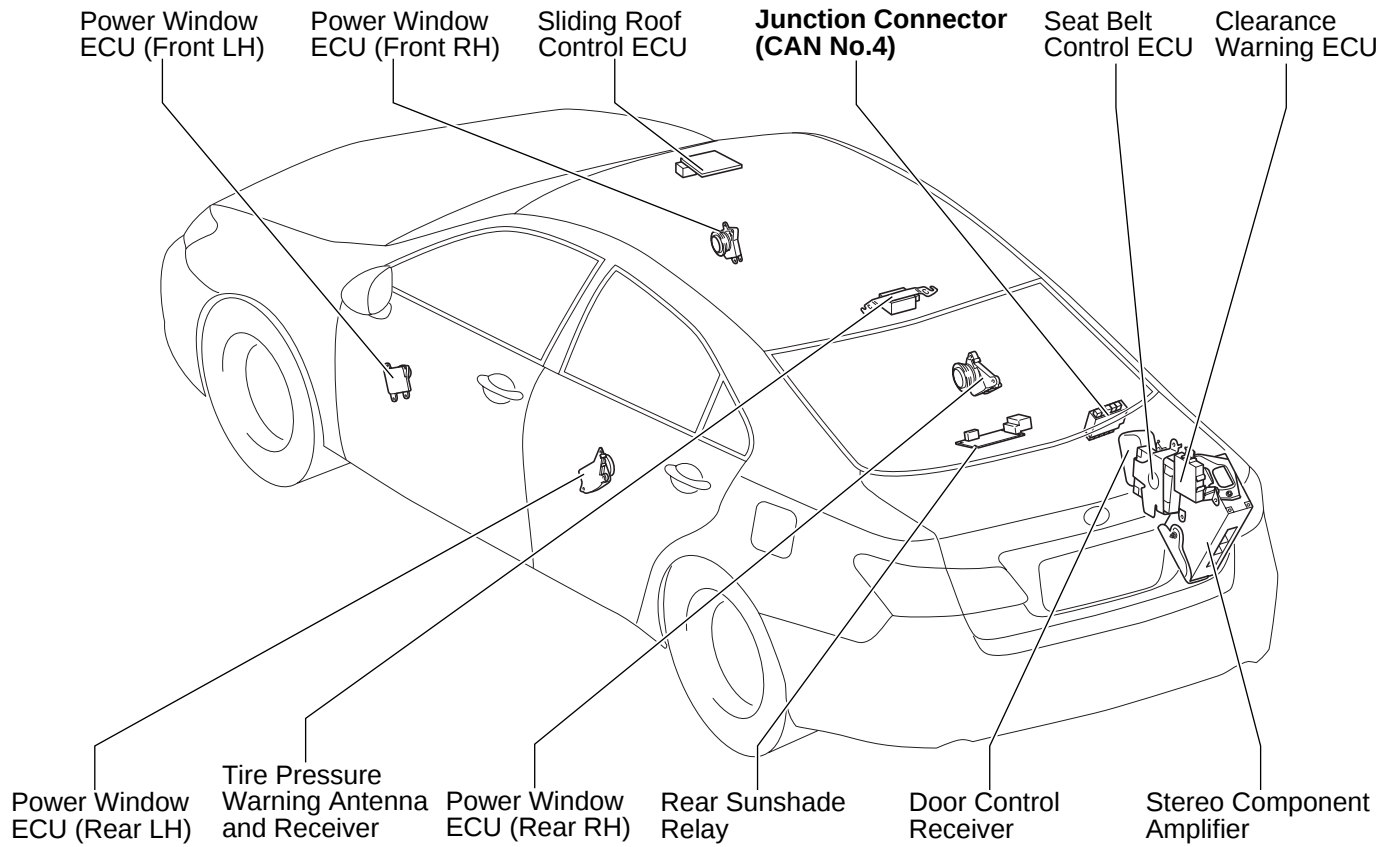
[Engine Compartment]



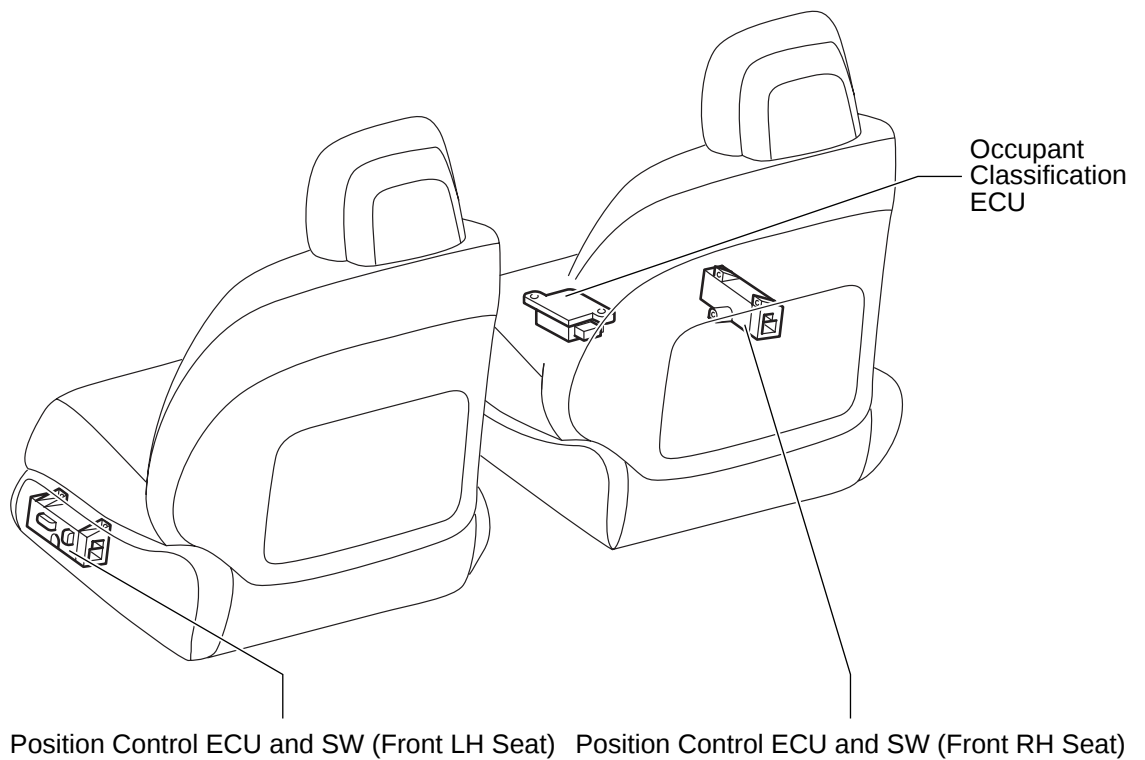
[Instrument Panel]



[Body]

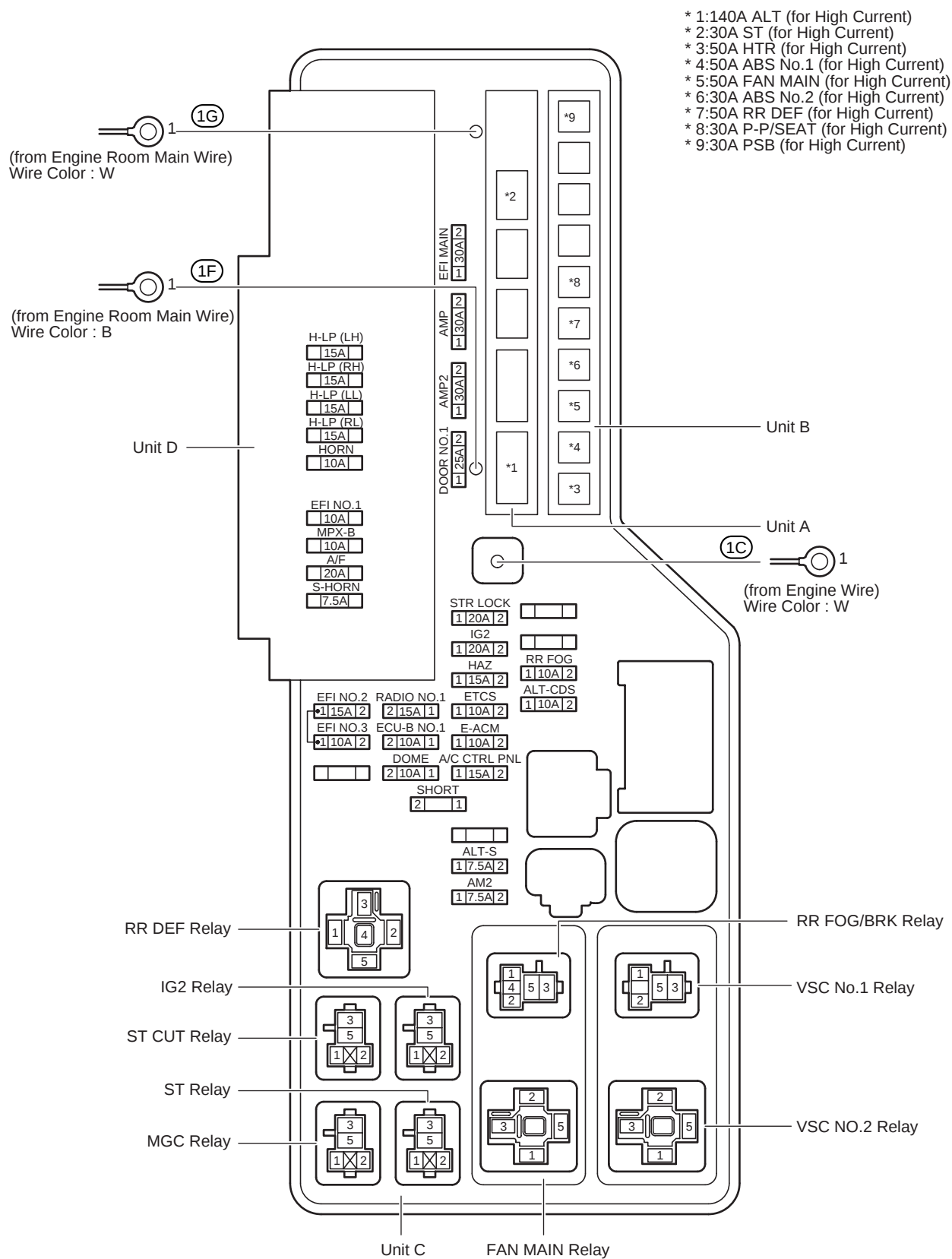


[Seat]

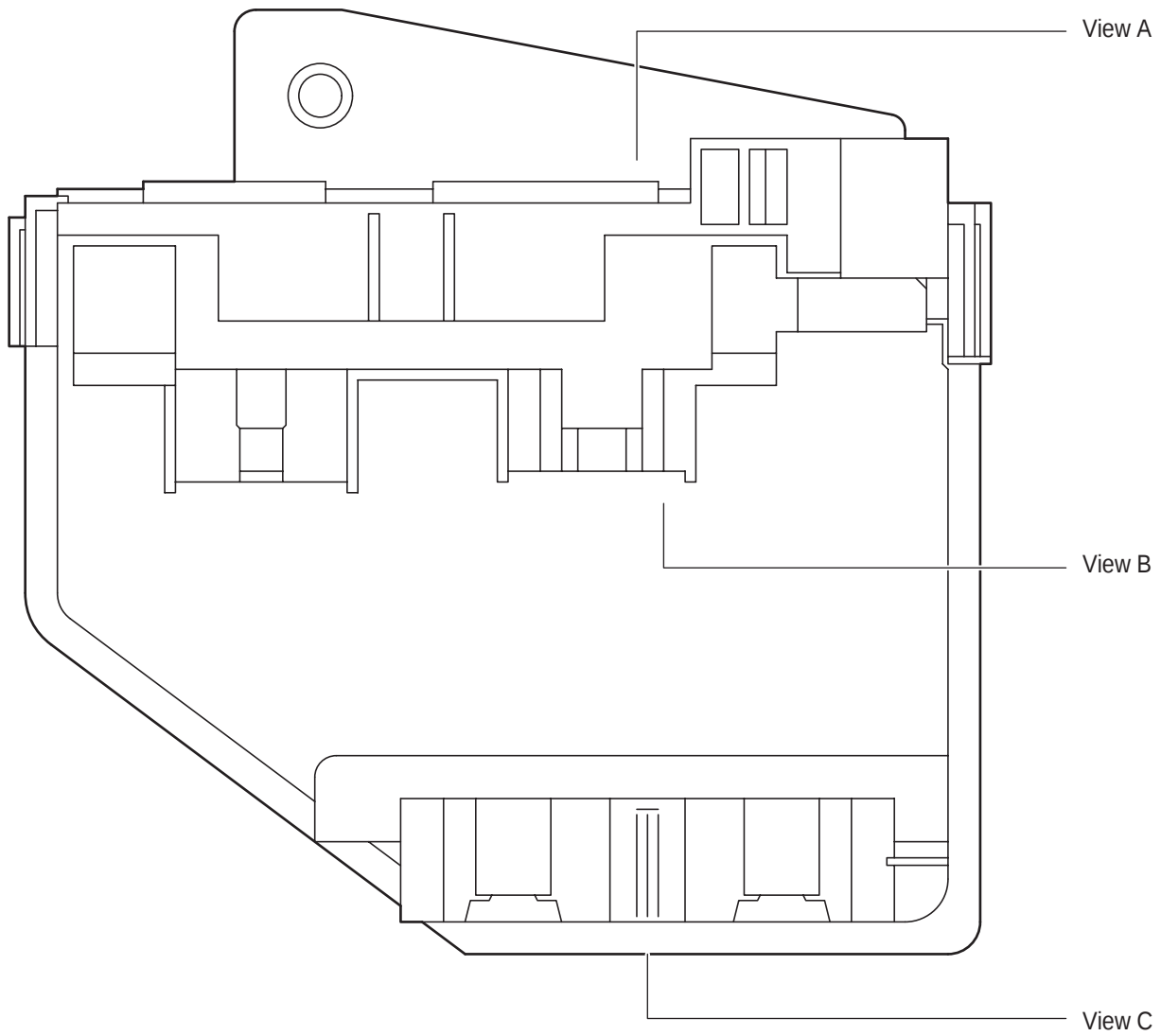


F RELAY LOCATIONS

① : Engine Room R/B	Engine Compartment Left (See Page 20)
○ : Engine Room J/B	

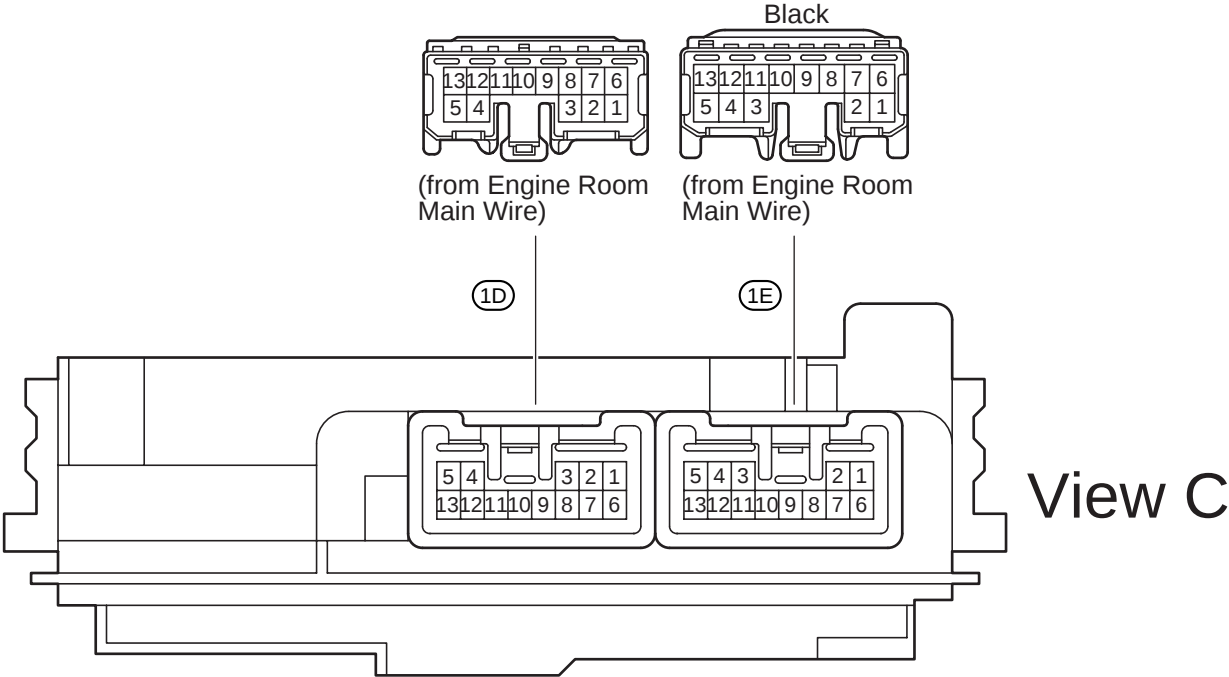
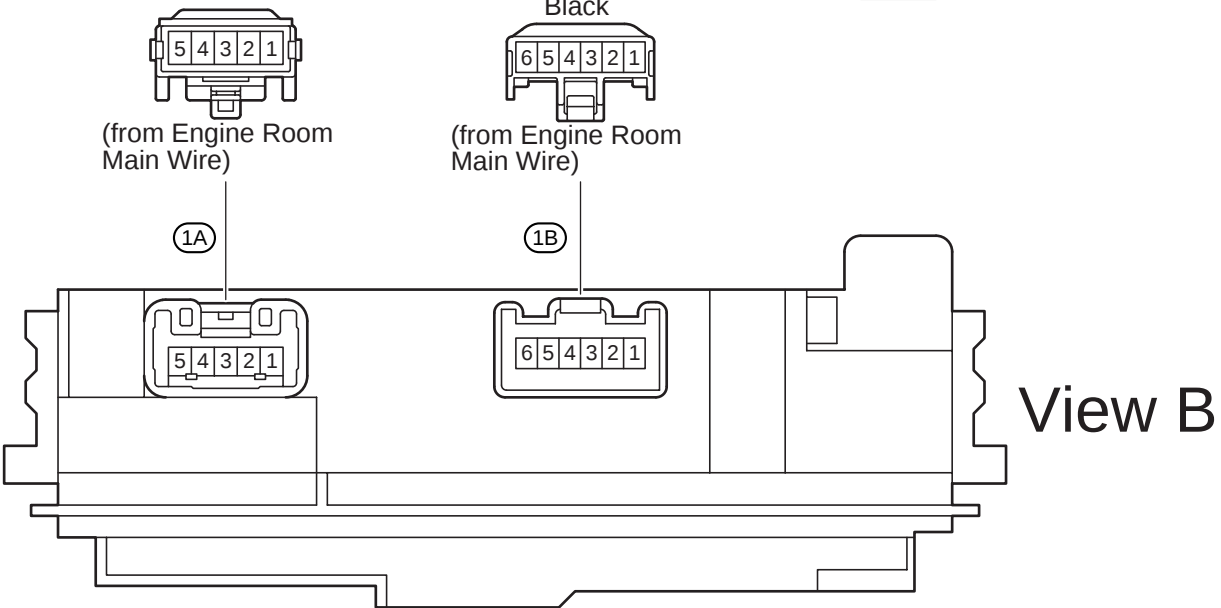
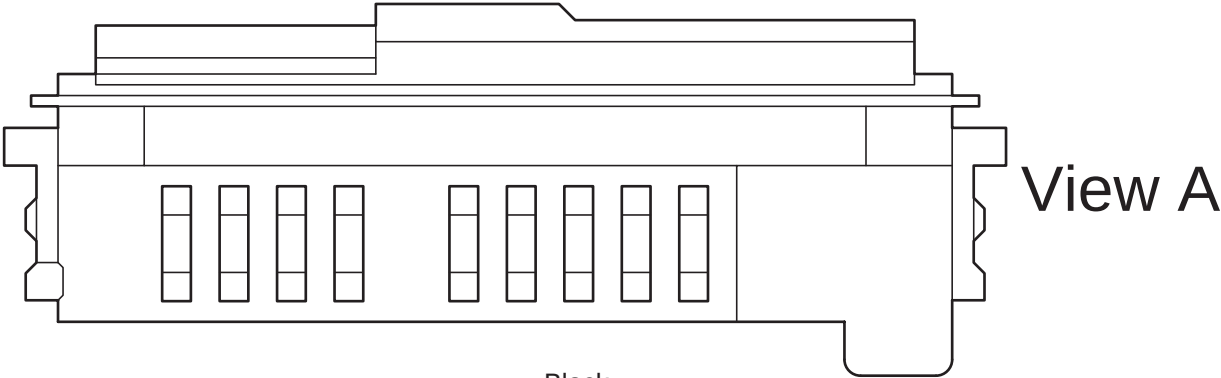


Unit D



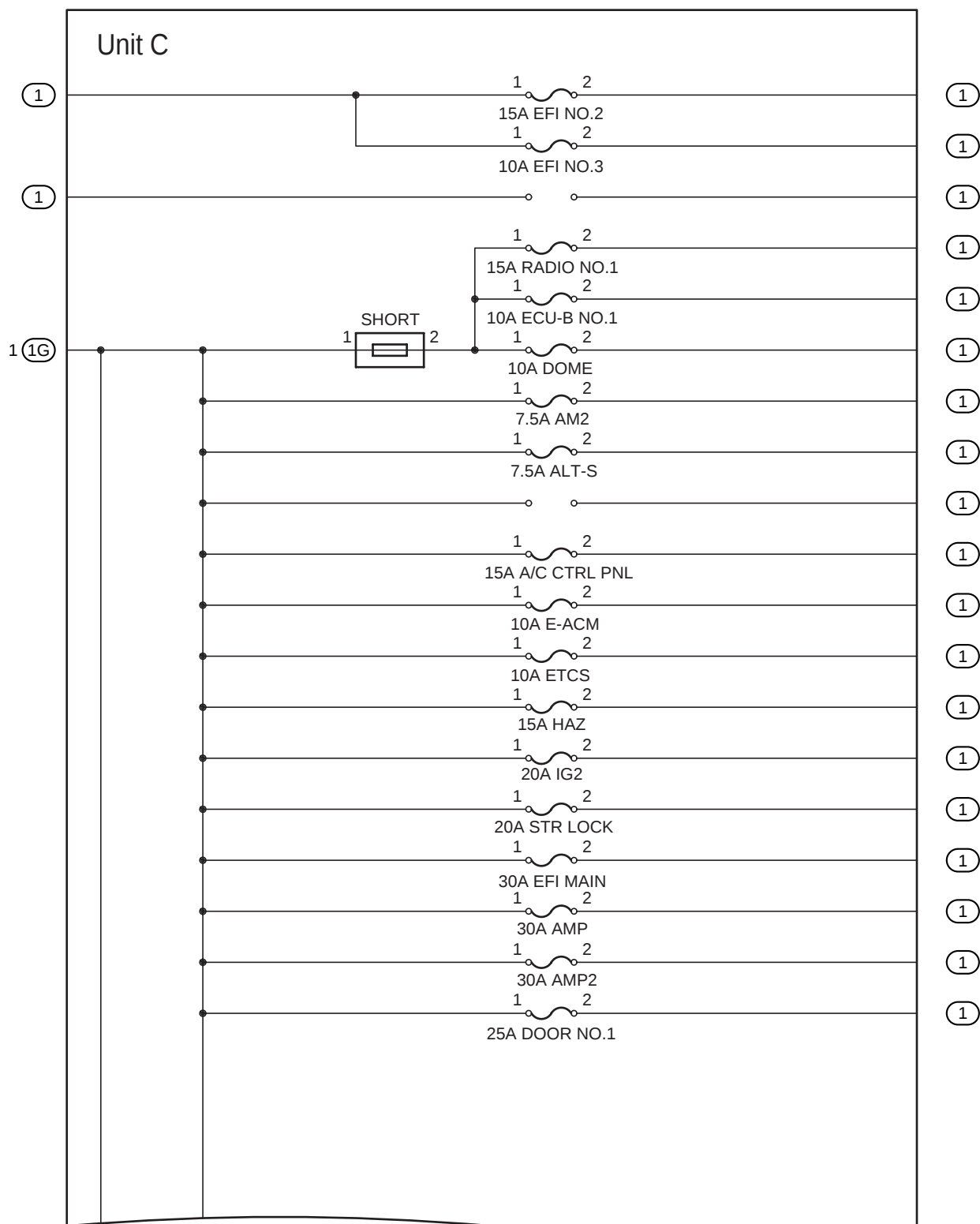
F RELAY LOCATIONS

① : Engine Room R/B	Engine Compartment Left (See Page 20)
○ : Engine Room J/B	



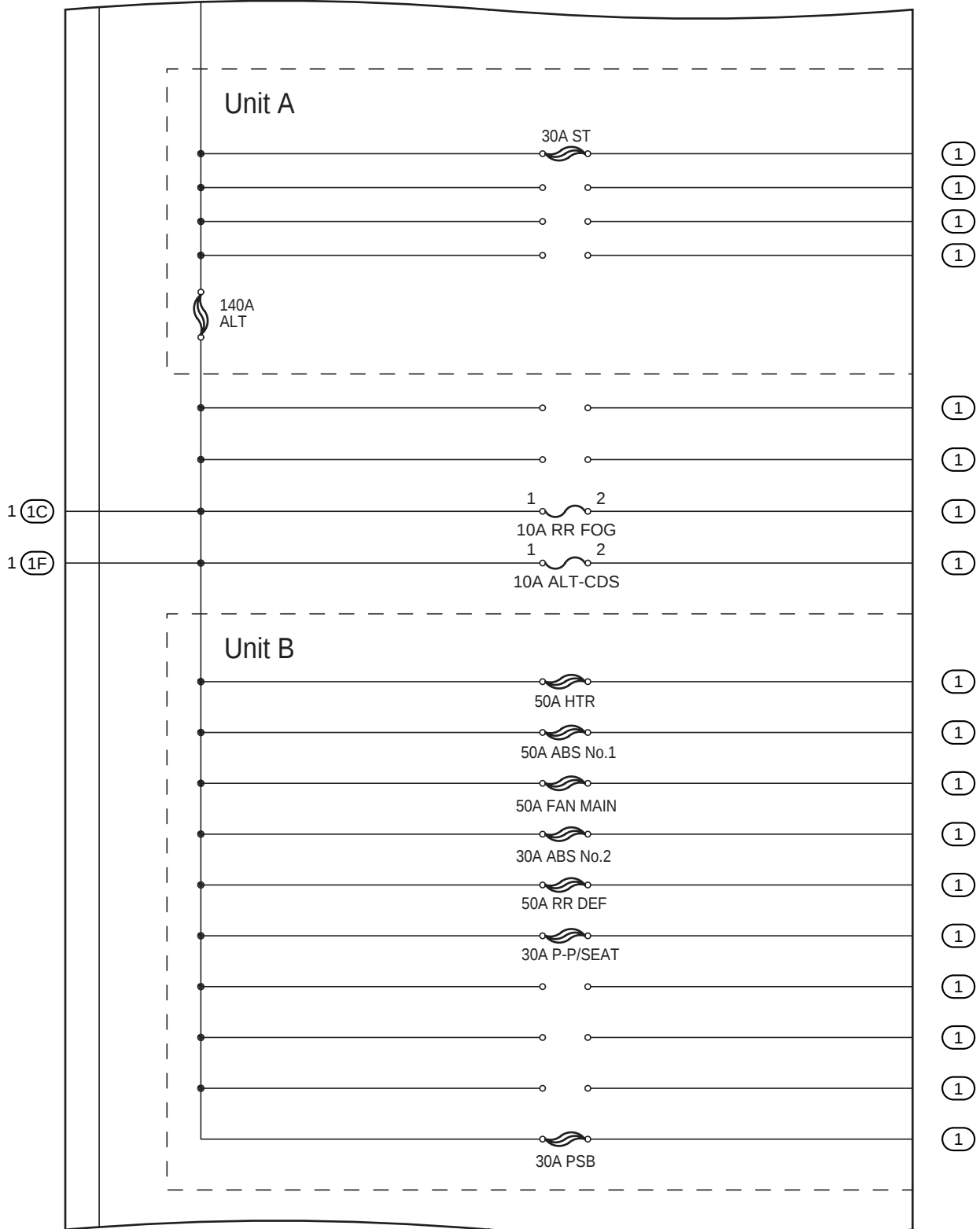
F RELAY LOCATIONS

[Engine Room R/B and Engine Room J/B Inner Circuit]



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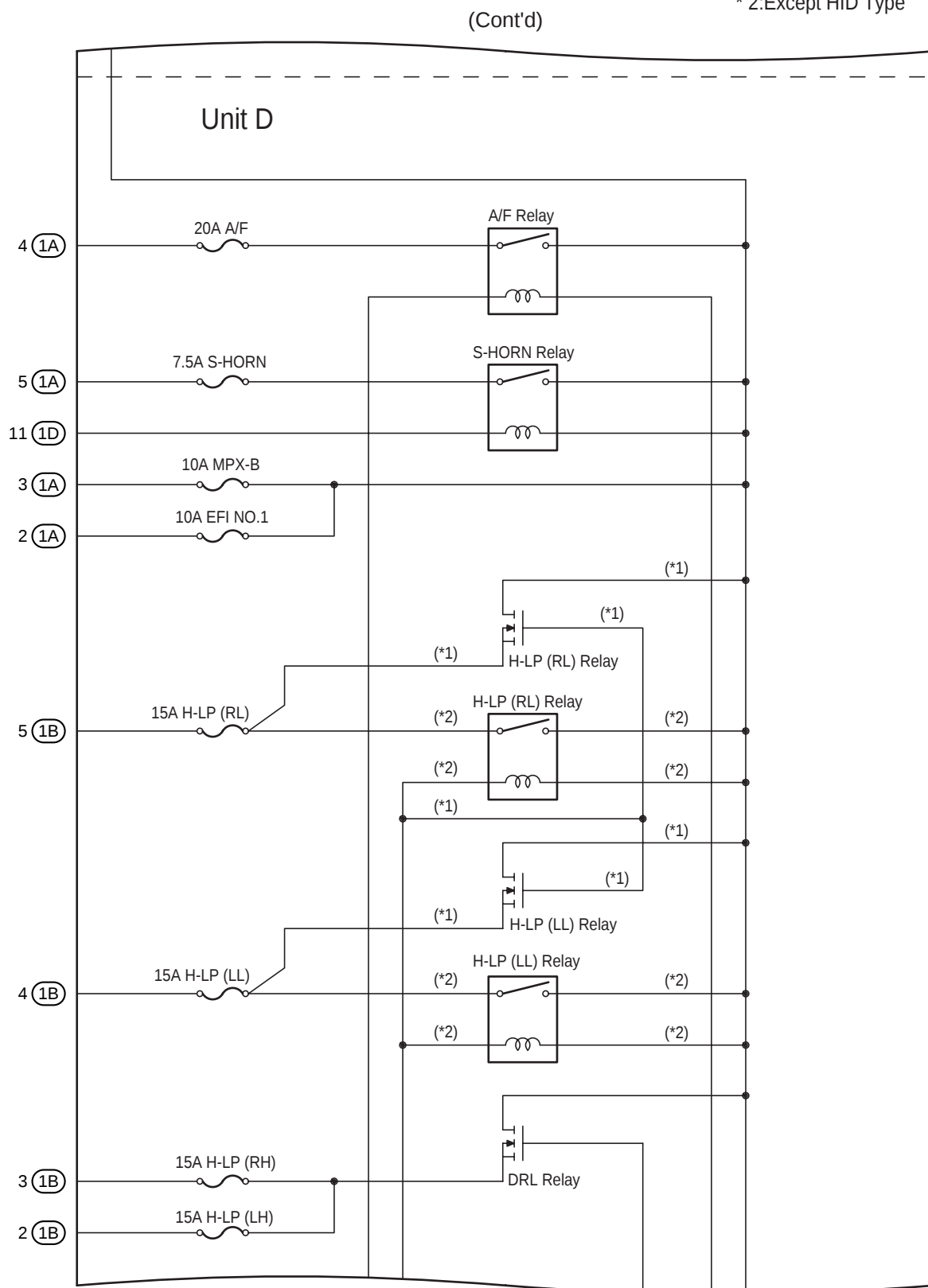


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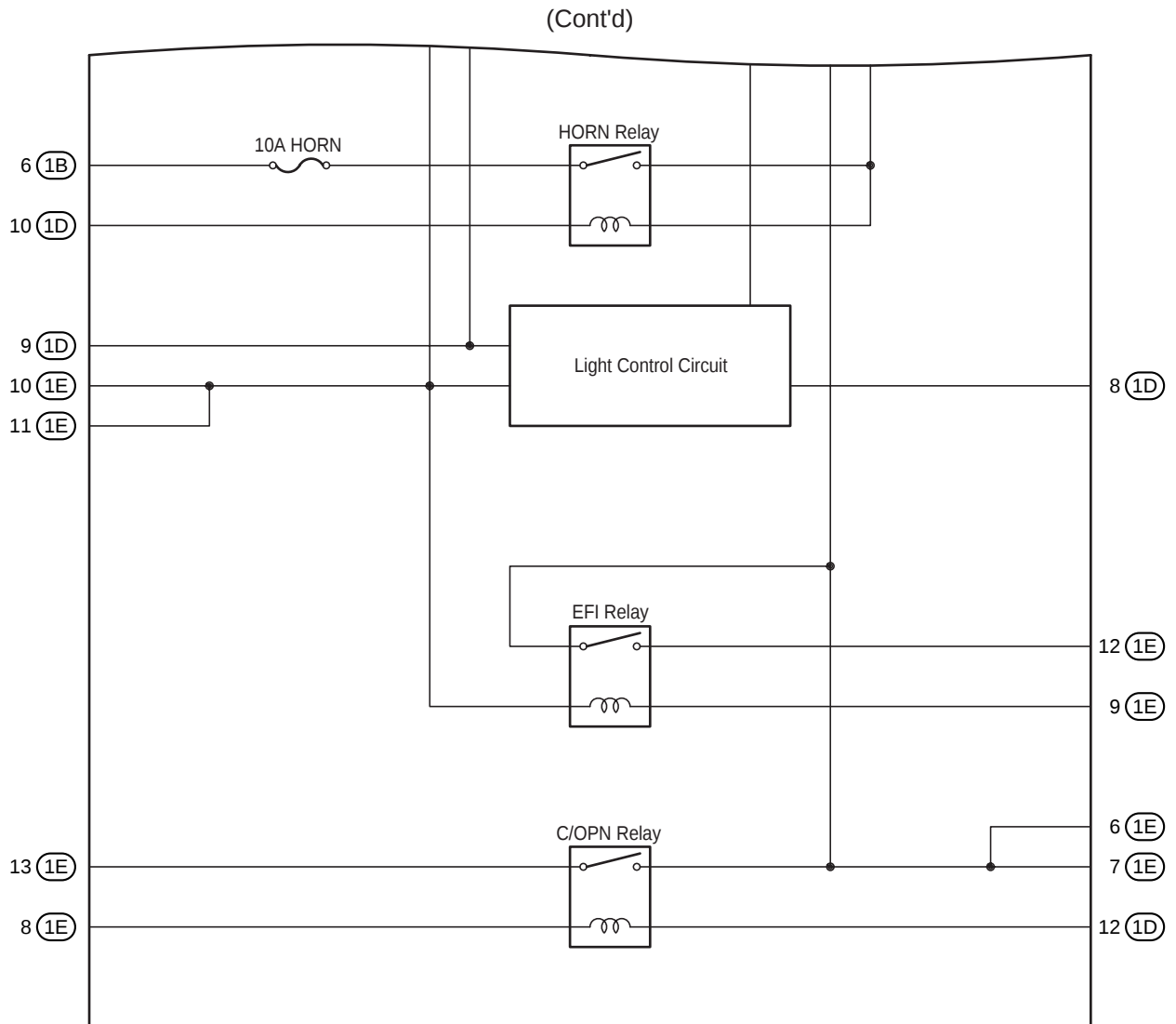
F RELAY LOCATIONS

[Engine Room R/B and Engine Room J/B Inner Circuit]

* 1:HID Type
* 2:Except HID Type

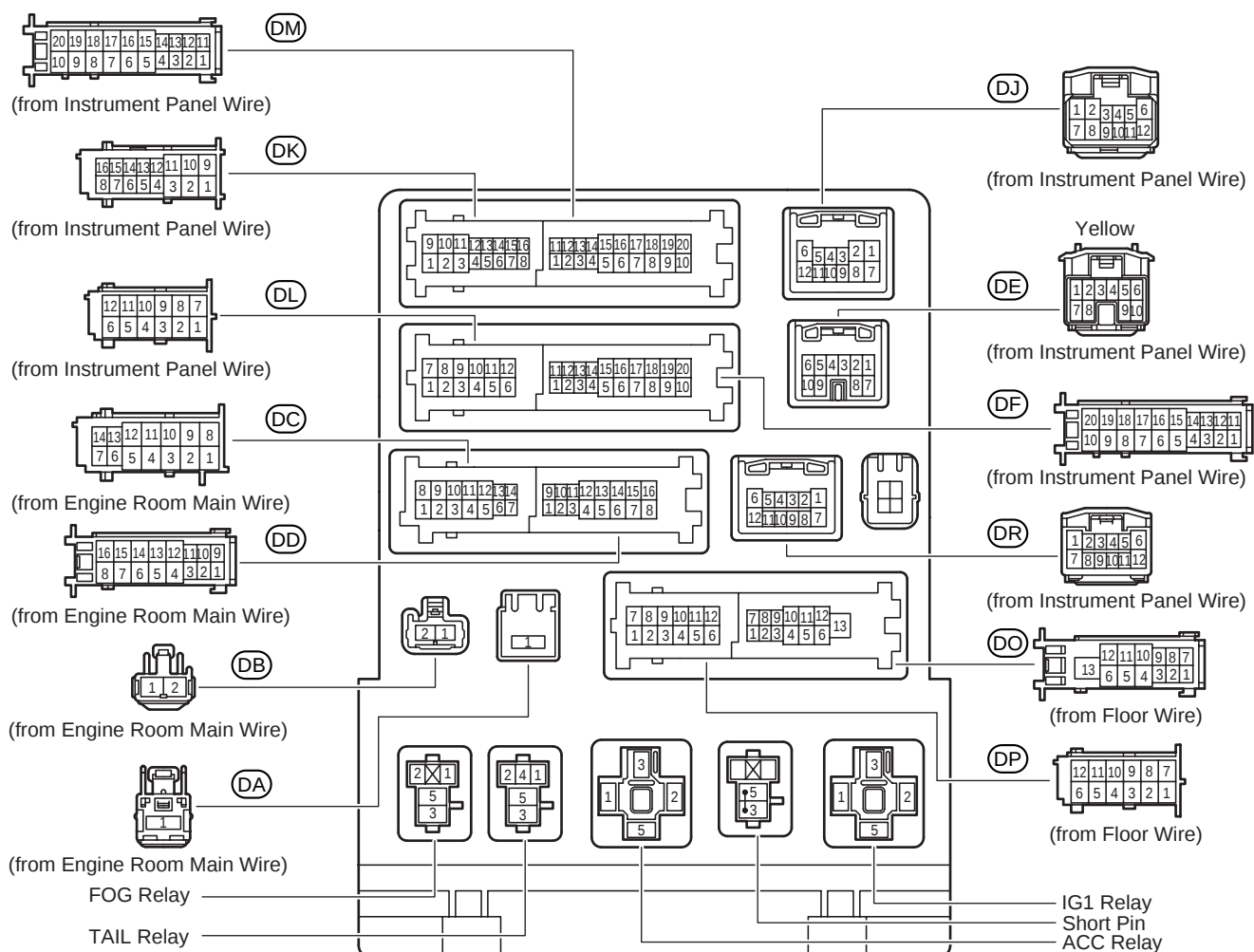


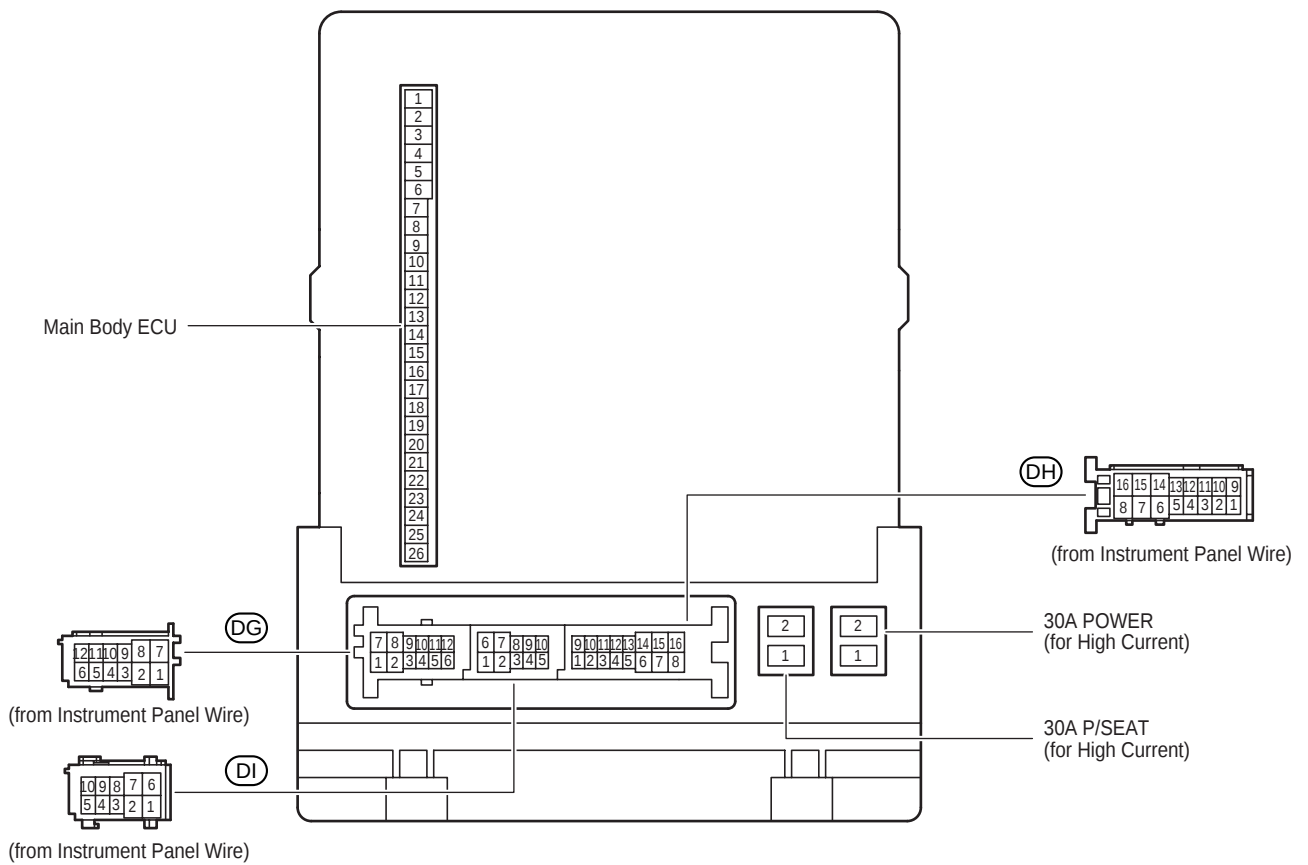
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F RELAY LOCATIONS

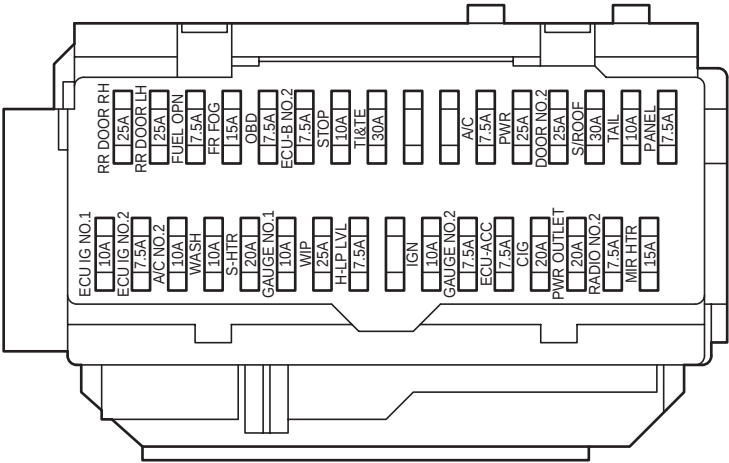
 : Instrument Panel J/B Lower Finish Panel (See Page 20)



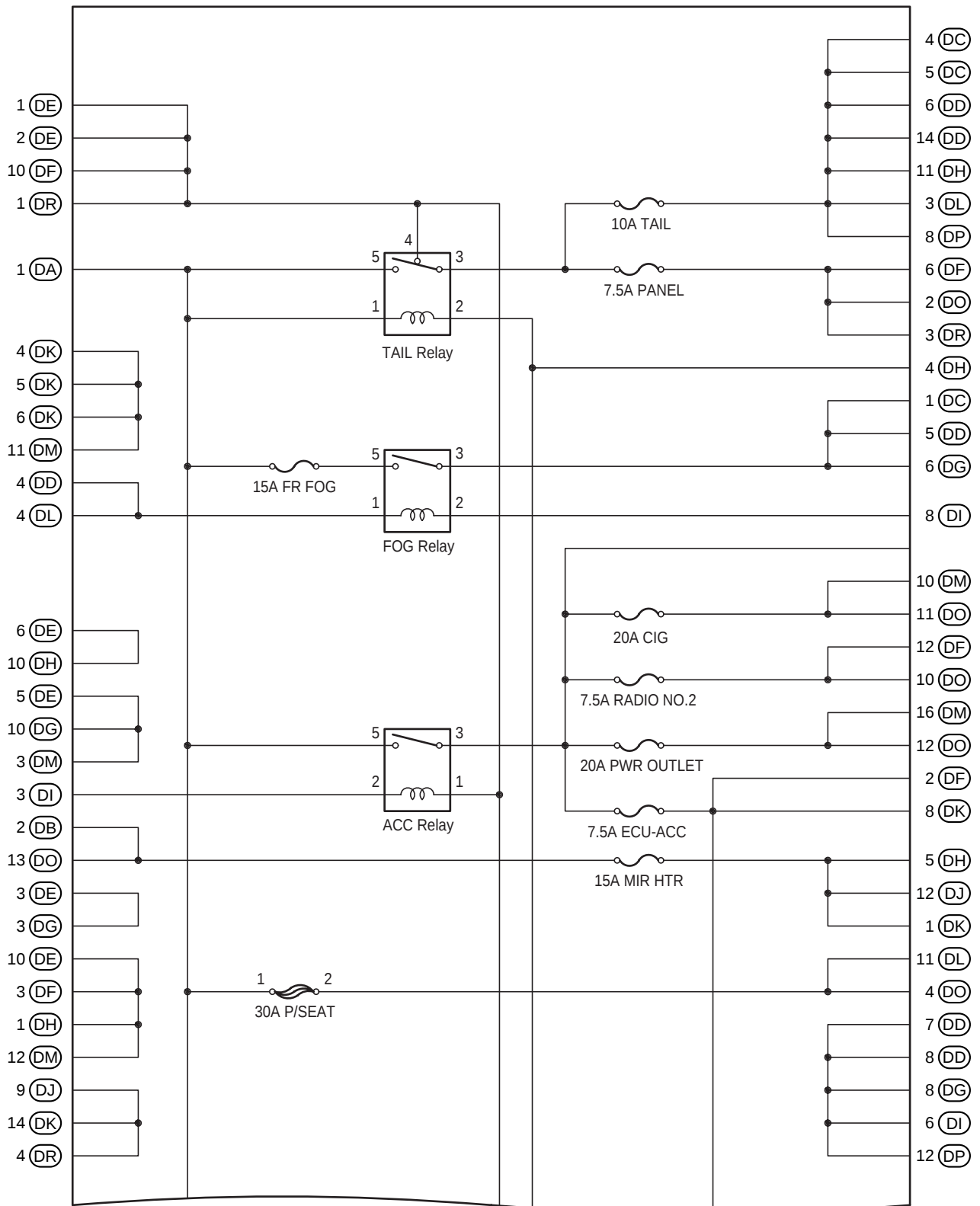


F RELAY LOCATIONS

 : Instrument Panel J/B	Lower Finish Panel (See Page 20)
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[Instrument Panel J/B Inner Circuit]

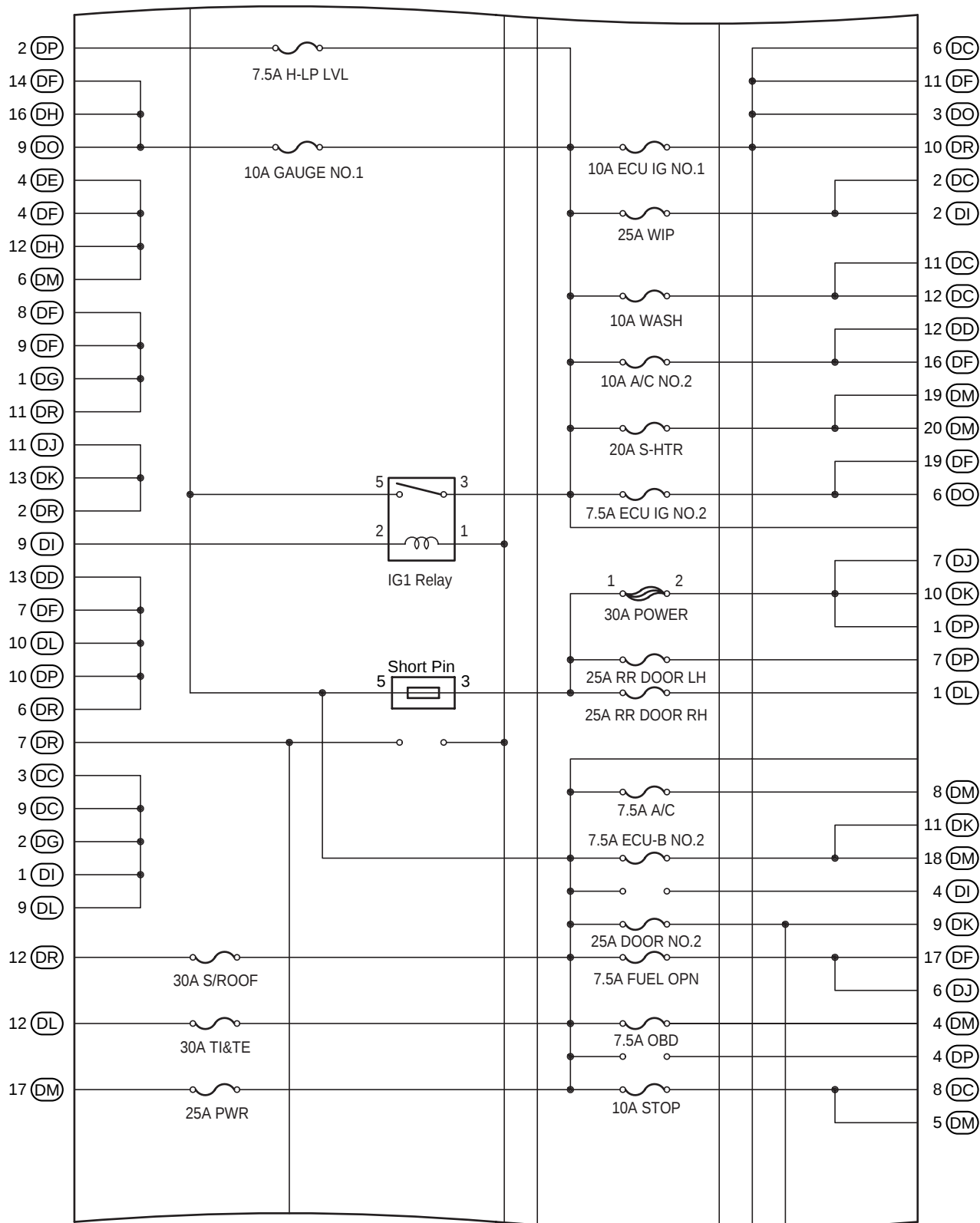


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F RELAY LOCATIONS

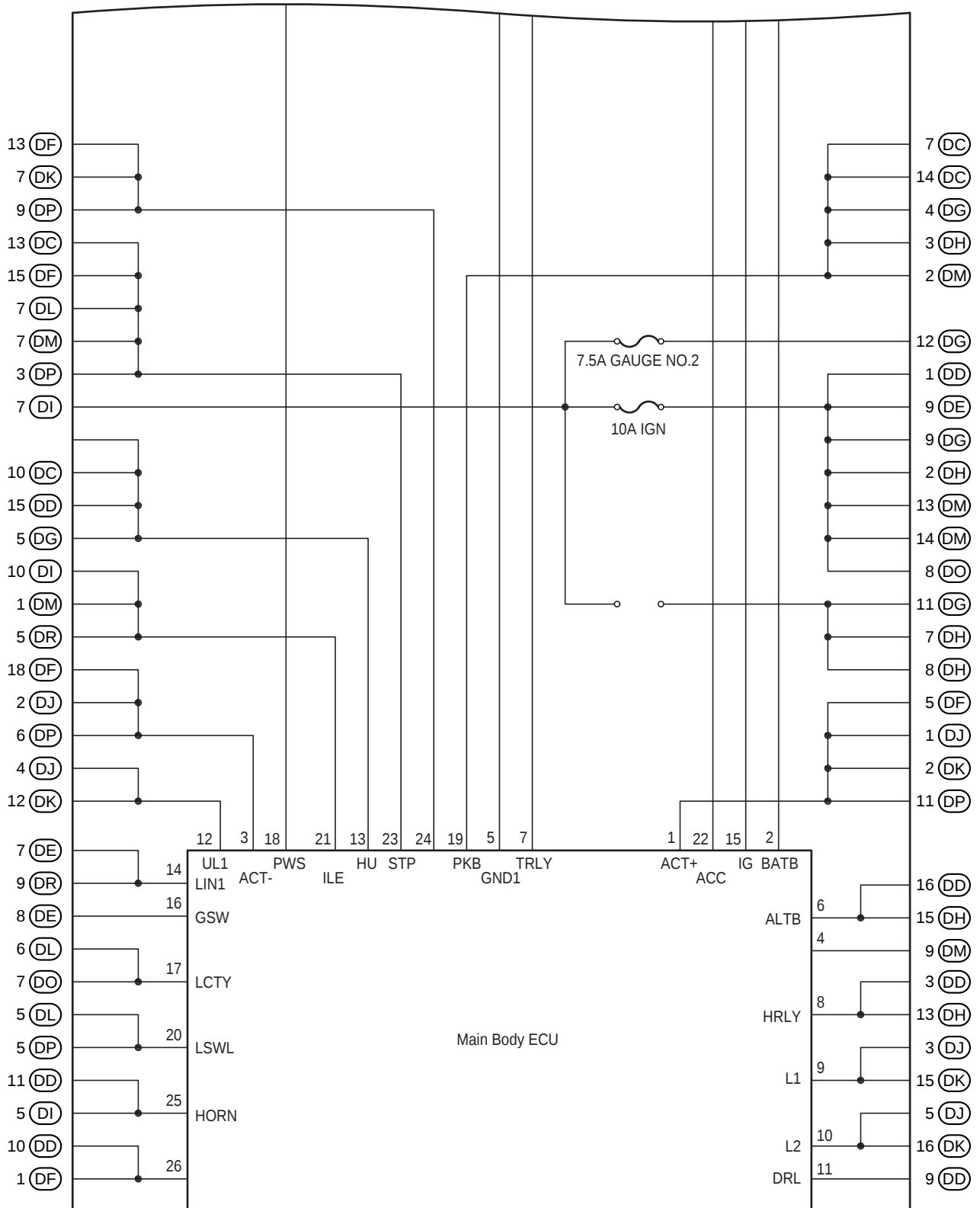
[Instrument Panel J/B Inner Circuit]

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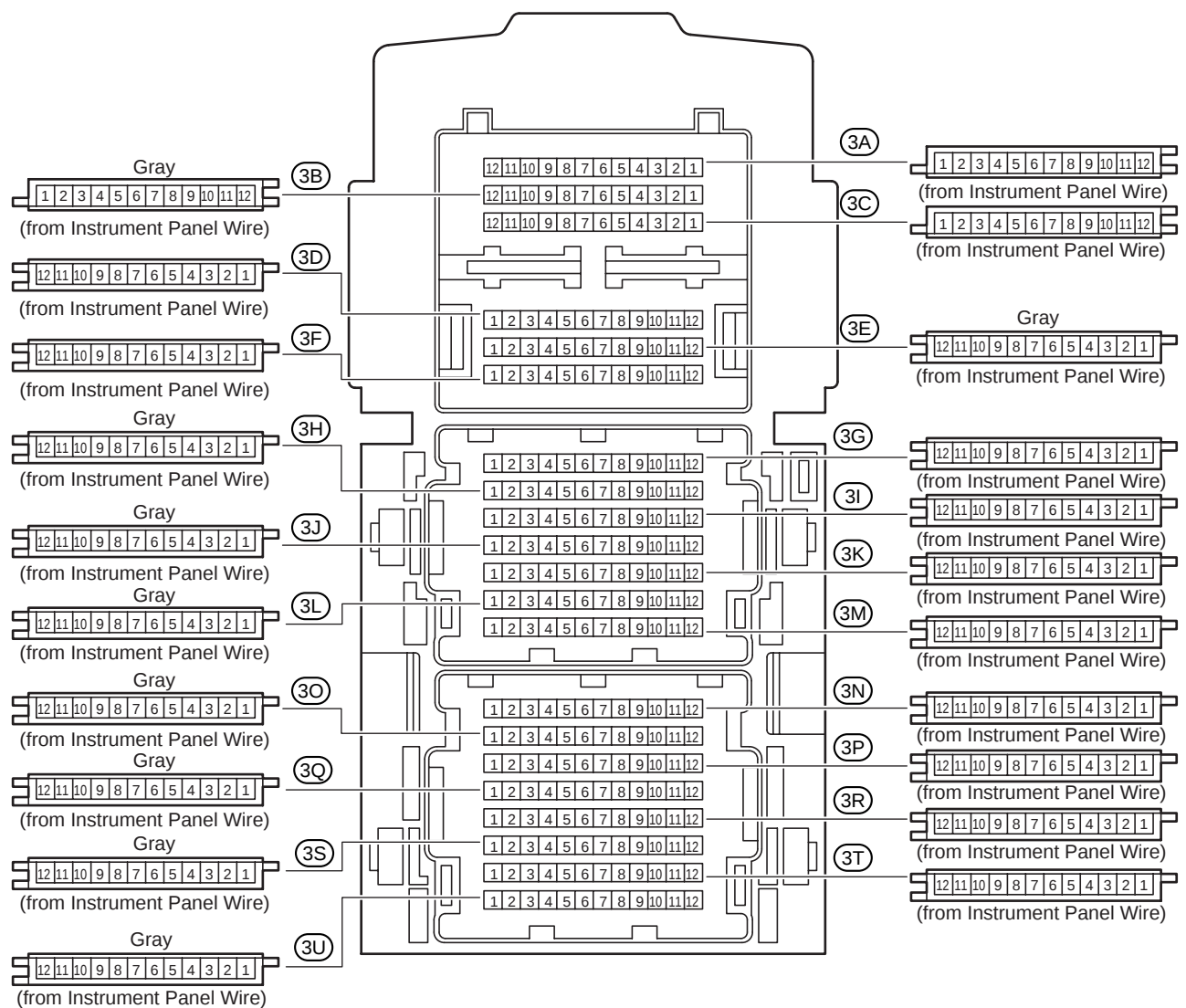
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F RELAY LOCATIONS

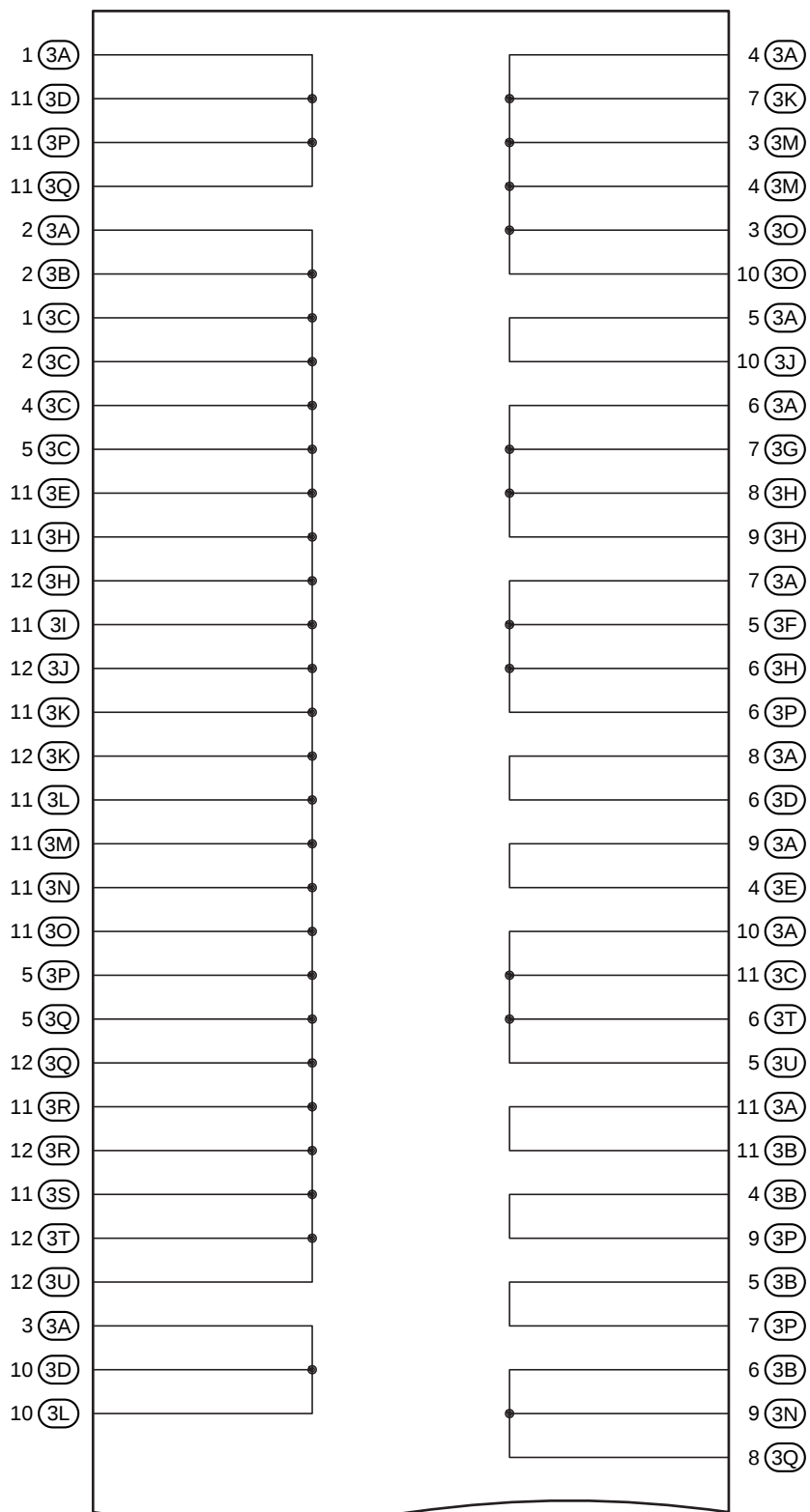
○ : J/B No.3

Instrument Panel Left (See Page 20)



F RELAY LOCATIONS

[J/B No.3 Inner Circuit]



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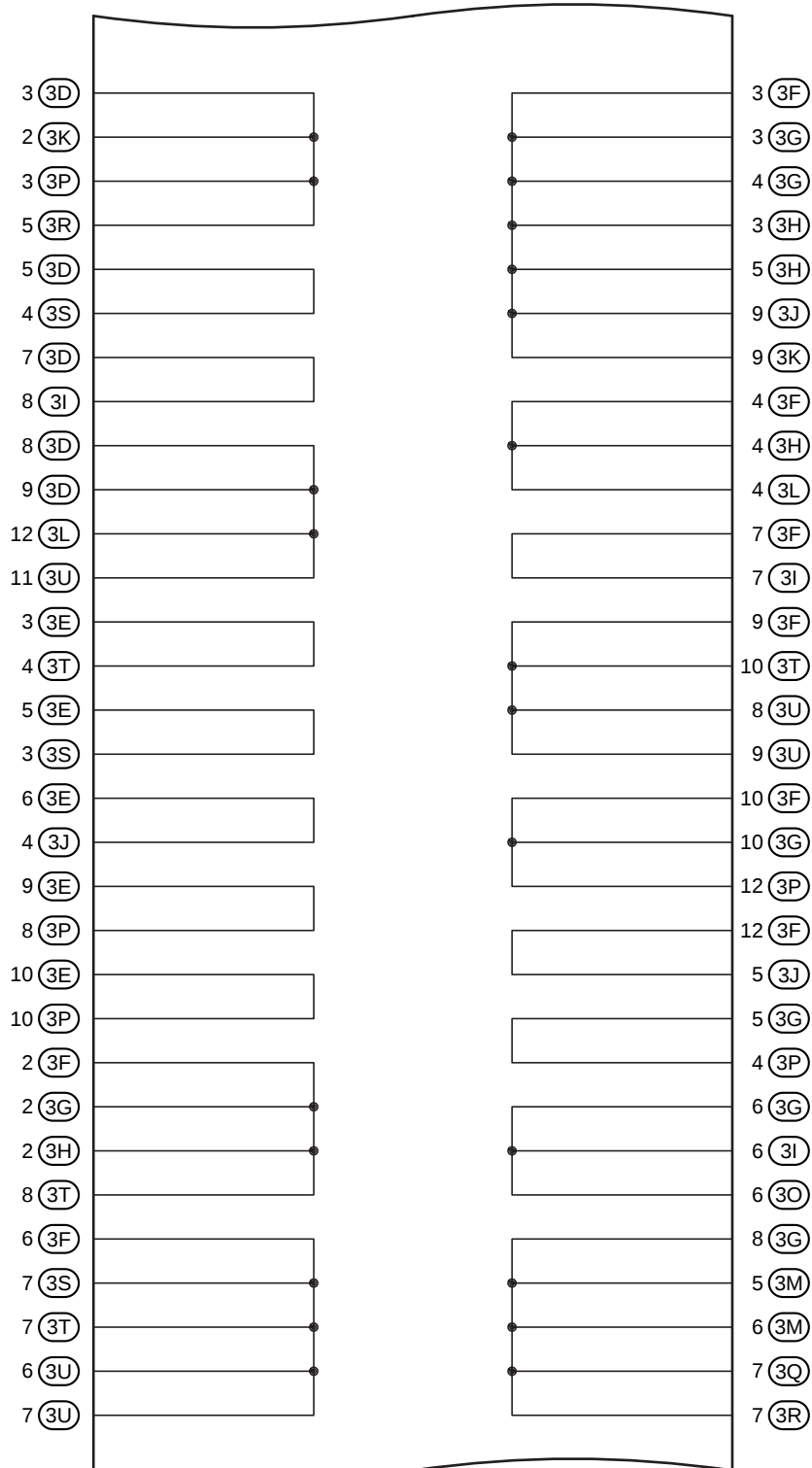
12 (3A)			7 (3C)
12 (3B)			6 (3Q)
2 (3E)			8 (3C)
1 (3P)			5 (3I)
1 (3R)			9 (3C)
2 (3R)			4 (3Q)
3 (3R)			10 (3C)
4 (3R)			3 (3I)
2 (3S)			8 (3K)
1 (3B)			8 (3N)
6 (3C)			8 (3O)
7 (3E)			
8 (3E)			12 (3C)
8 (3F)			1 (3I)
11 (3G)			1 (3D)
10 (3K)			1 (3E)
12 (3O)			1 (3J)
3 (3B)			1 (3T)
12 (3D)			2 (3D)
12 (3E)			1 (3G)
11 (3F)			1 (3H)
12 (3G)			1 (3K)
12 (3N)			1 (3L)
7 (3B)			1 (3M)
6 (3K)			1 (3N)
8 (3B)			1 (3O)
4 (3I)			1 (3S)
9 (3B)			3 (3T)
4 (3D)			1 (3F)
3 (3C)			2 (3N)
10 (3Q)			2 (3T)

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F RELAY LOCATIONS

[J/B No.3 Inner Circuit]

(Cont'd)



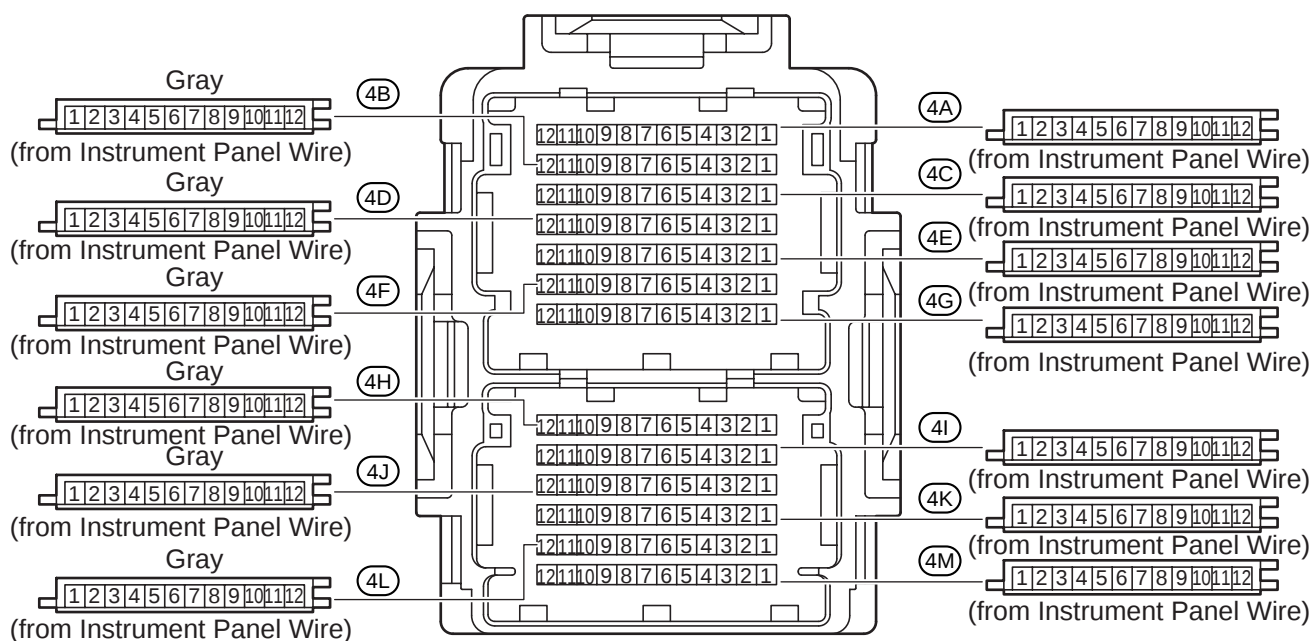
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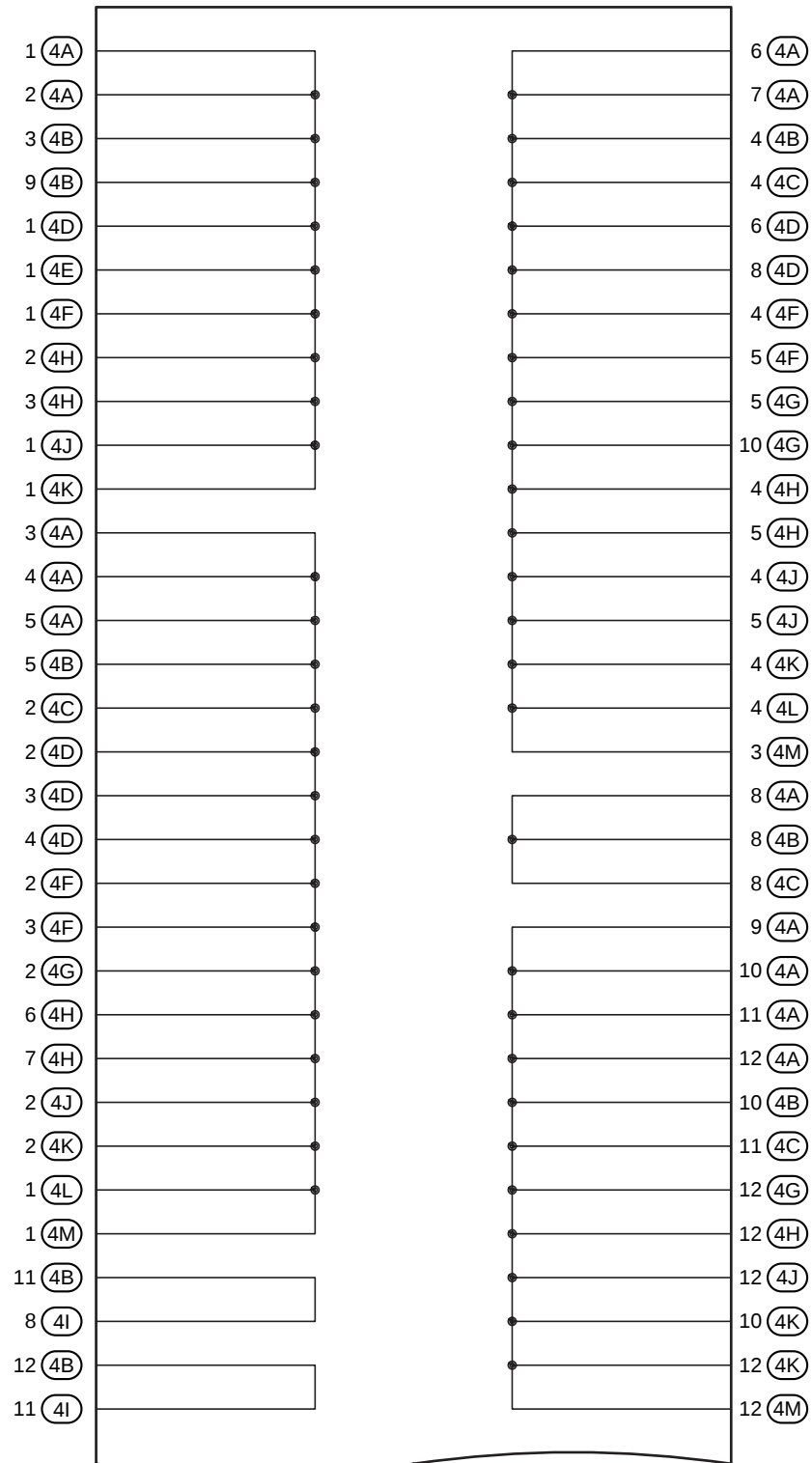
9 (3G)			6 (3L)
9 (3I)		•	7 (3L)
7 (3H)		•	8 (3L)
7 (3J)		•	7 (3M)
10 (3H)			8 (3M)
10 (3S)			9 (3L)
2 (3I)		•	9 (3M)
1 (3Q)	•		10 (3M)
1 (3U)			3 (3N)
10 (3I)		•	4 (3N)
10 (3N)			4 (3O)
12 (3I)			6 (3N)
12 (3M)		•	7 (3N)
2 (3J)			7 (3O)
2 (3U)			2 (3O)
3 (3J)			2 (3Q)
2 (3L)	•		9 (3O)
2 (3M)			9 (3Q)
6 (3J)			3 (3Q)
9 (3T)			3 (3U)
8 (3J)			6 (3R)
2 (3P)		•	5 (3S)
11 (3J)			6 (3S)
10 (3U)			8 (3R)
3 (3K)			8 (3S)
3 (3L)			9 (3R)
4 (3K)		•	10 (3R)
5 (3L)			9 (3S)
5 (3K)			12 (3S)
5 (3N)	•		11 (3T)
5 (3O)			5 (3T)
			4 (3U)

F RELAY LOCATIONS

 : J/B No.4	Instrument Panel Right (See Page 20)
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[J/B No.4 Inner Circuit]

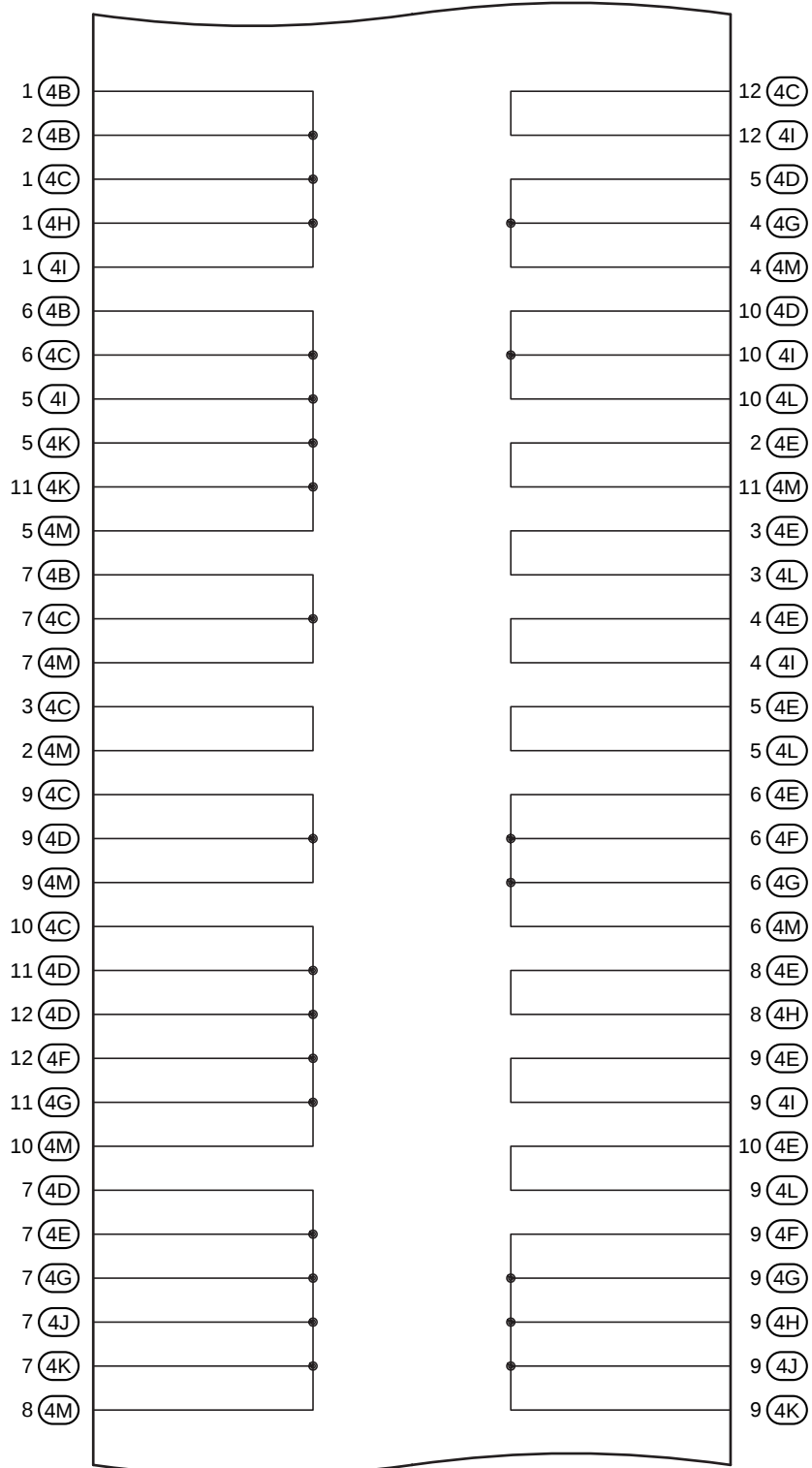


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F RELAY LOCATIONS

[J/B No.4 Inner Circuit]

(Cont'd)



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(Cont'd)

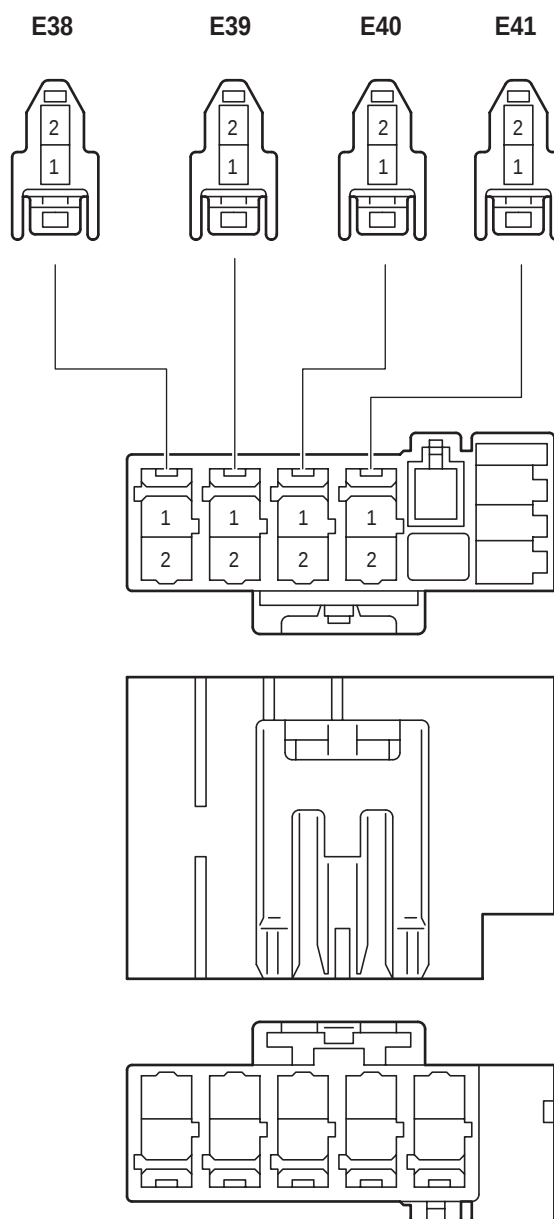
11 (4E)			10 (4H)
11 (4L)			10 (4J)
12 (4E)			11 (4H)
12 (4L)			11 (4J)
7 (4F)			2 (4I)
7 (4L)			2 (4L)
8 (4F)			3 (4I)
7 (4I)			3 (4J)
10 (4F)			3 (4K)
11 (4F)			6 (4I)
1 (4G)			6 (4L)
3 (4G)			6 (4J)
8 (4G)			6 (4K)
8 (4J)			8 (4K)
			8 (4L)

F RELAY LOCATIONS

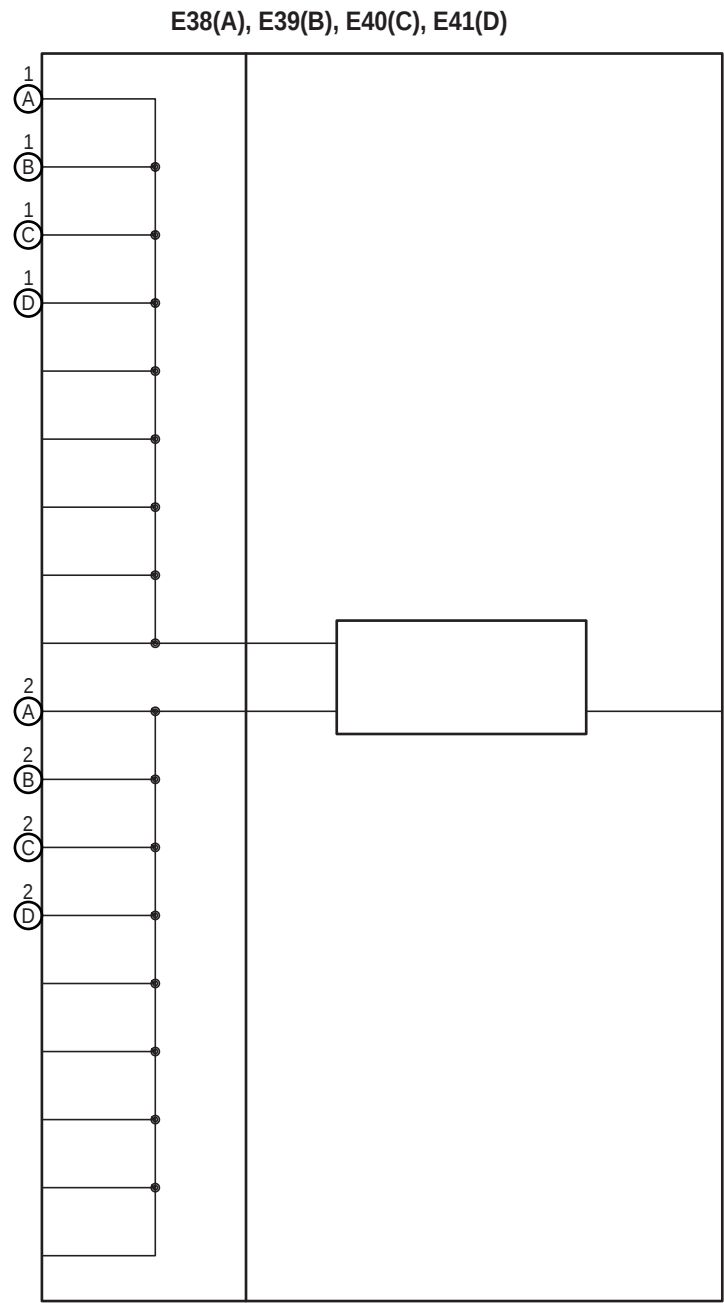
Junction Connector

Instrument Panel Center (See Page 20)

(CAN No.1)



[Junction Connector Inner Circuit]
(CAN No.1)

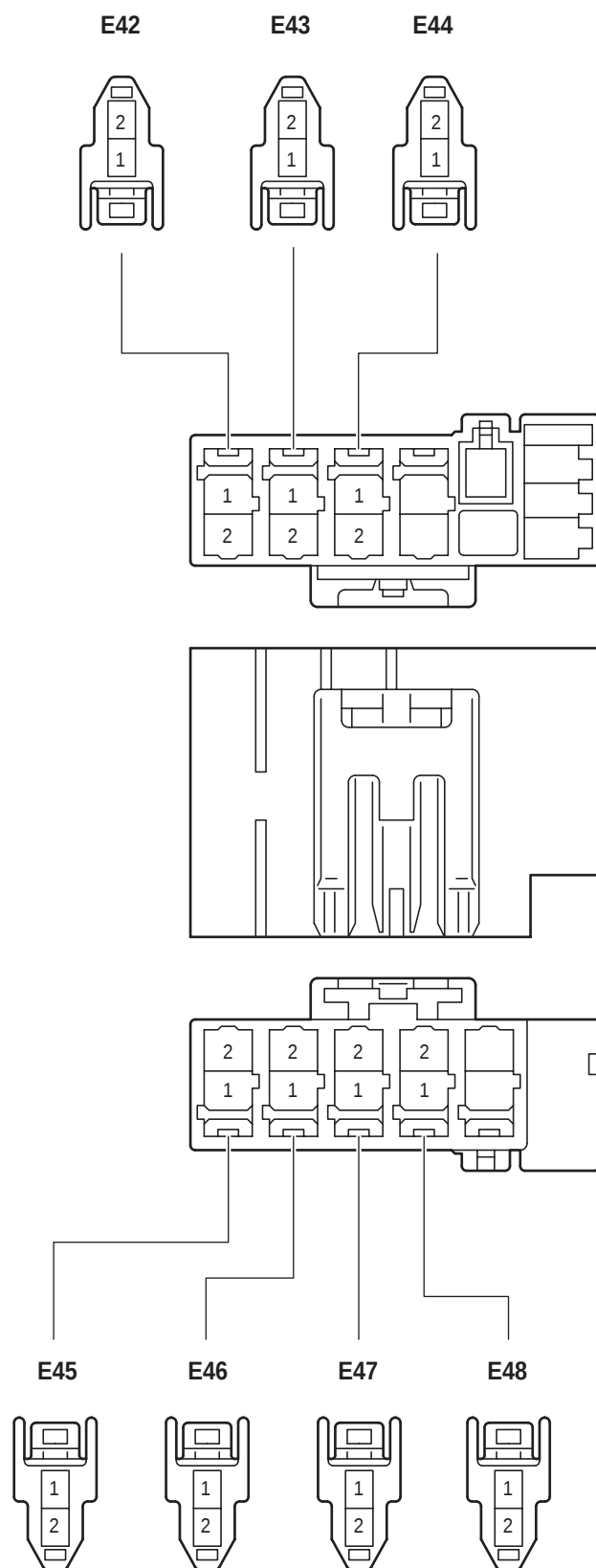


F RELAY LOCATIONS

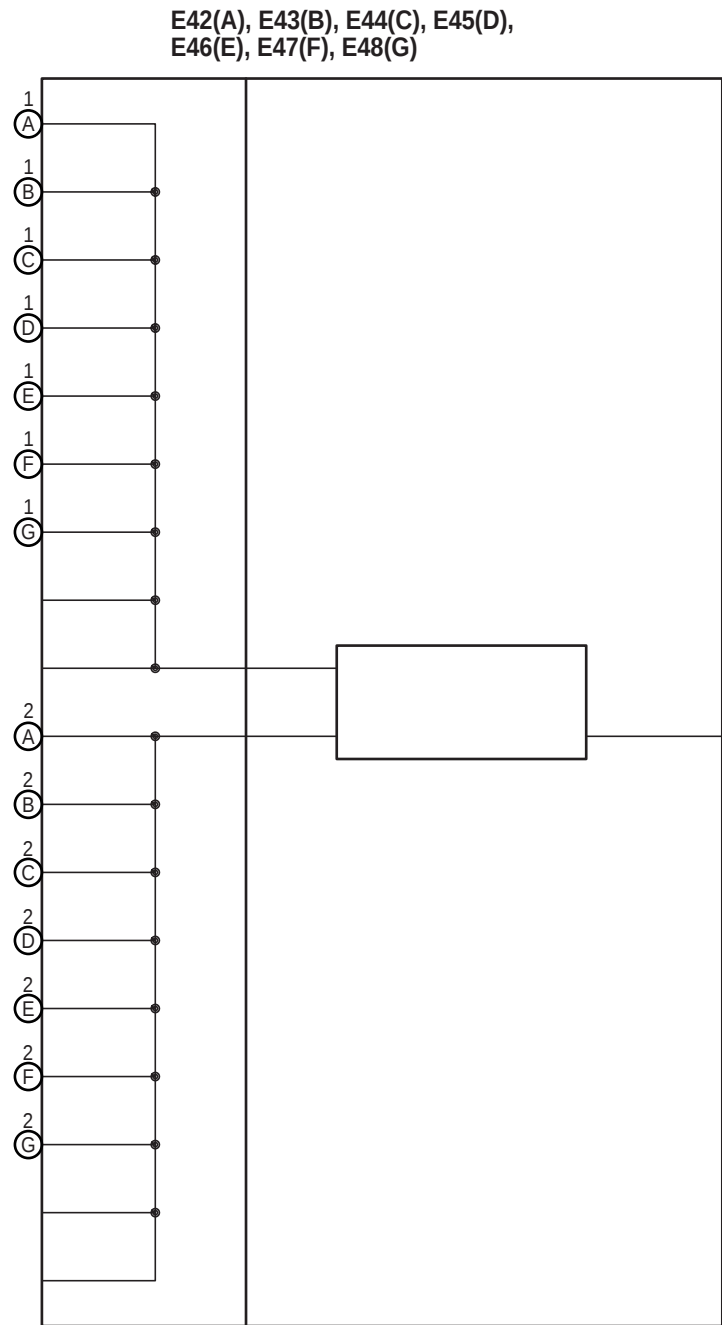
Junction Connector

Instrument Panel Center (See Page 20)

(CAN No.2)

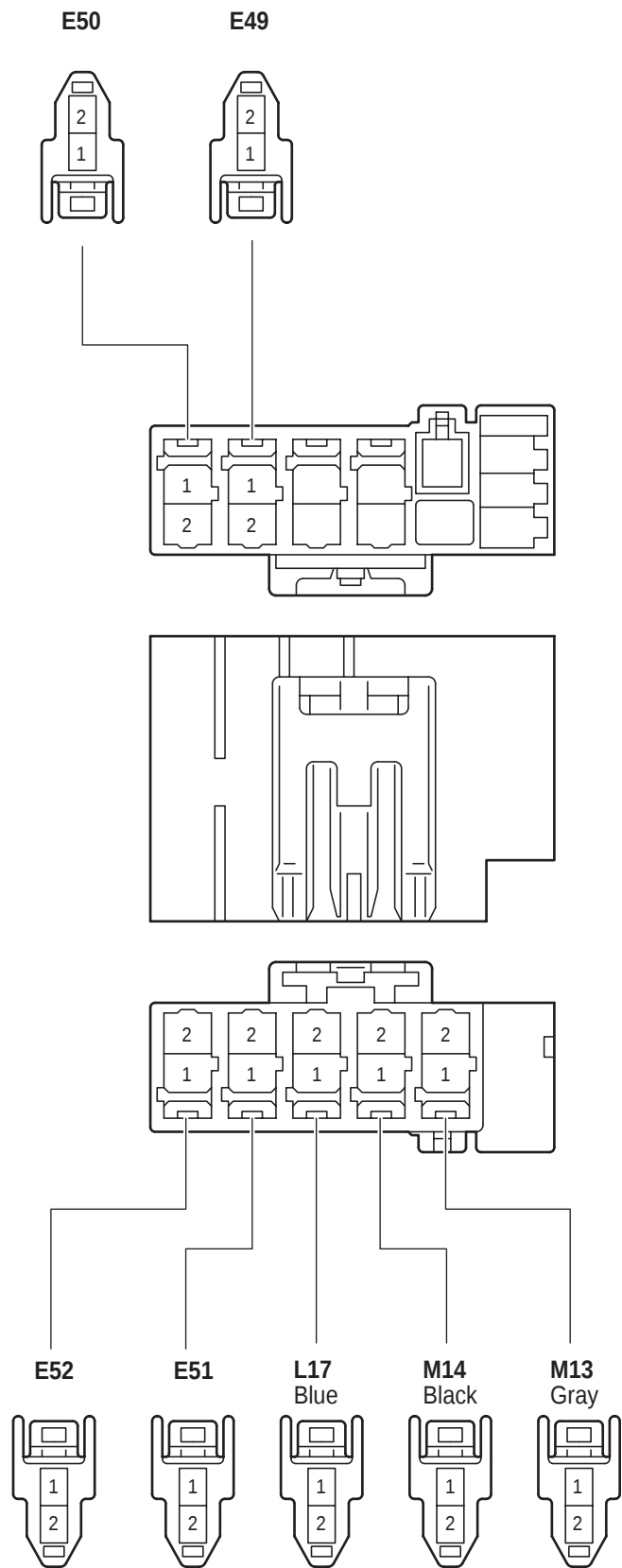


[Junction Connector Inner Circuit]
(CAN No.2)

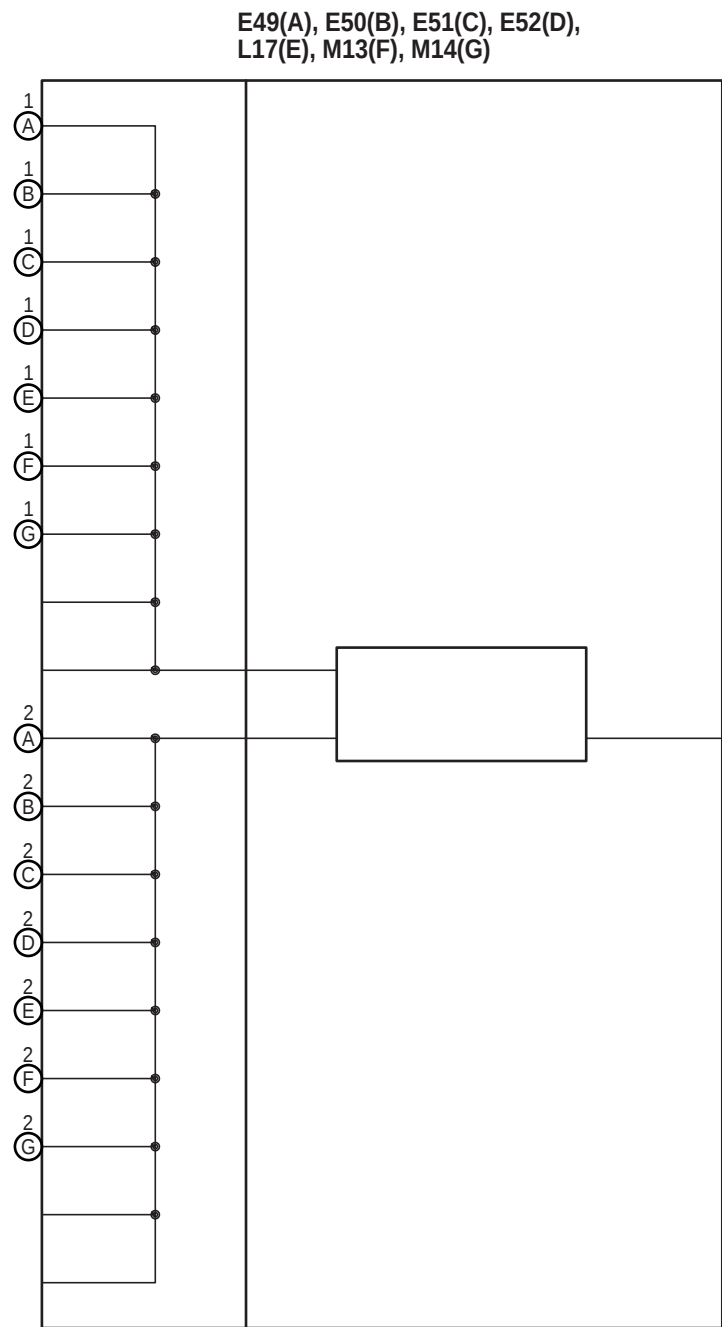


F RELAY LOCATIONS

Junction Connector (CAN No.3)	Near the Shift Lever (See Page 20)
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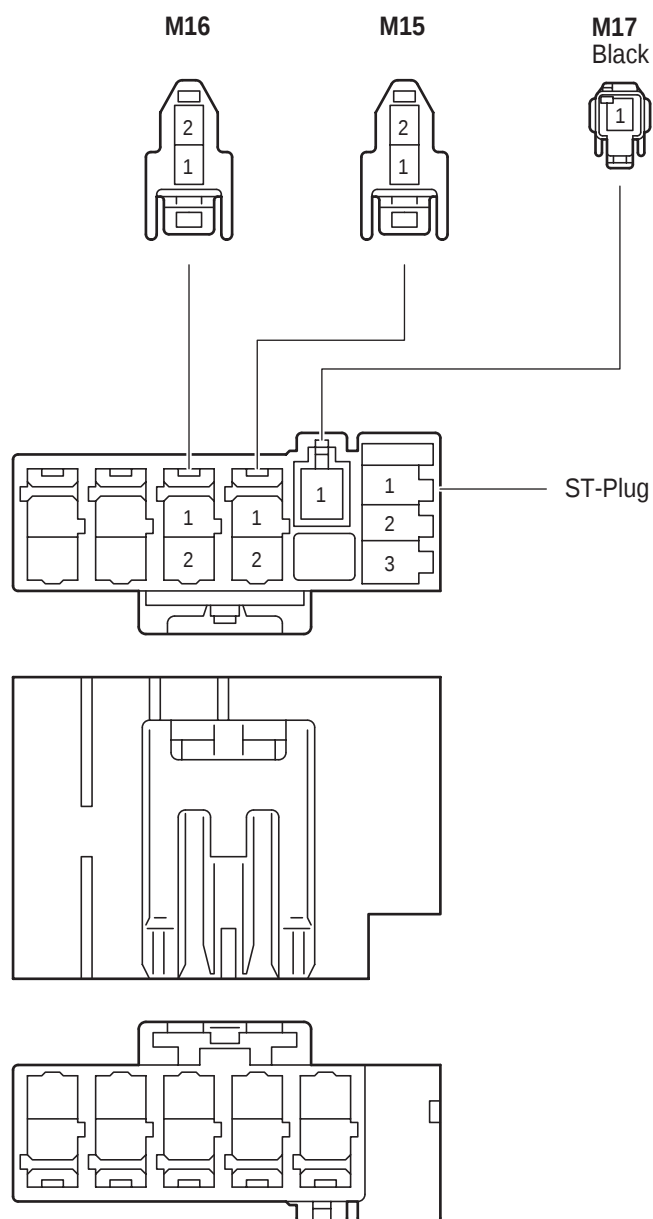
[Junction Connector Inner Circuit]
(CAN No.3)



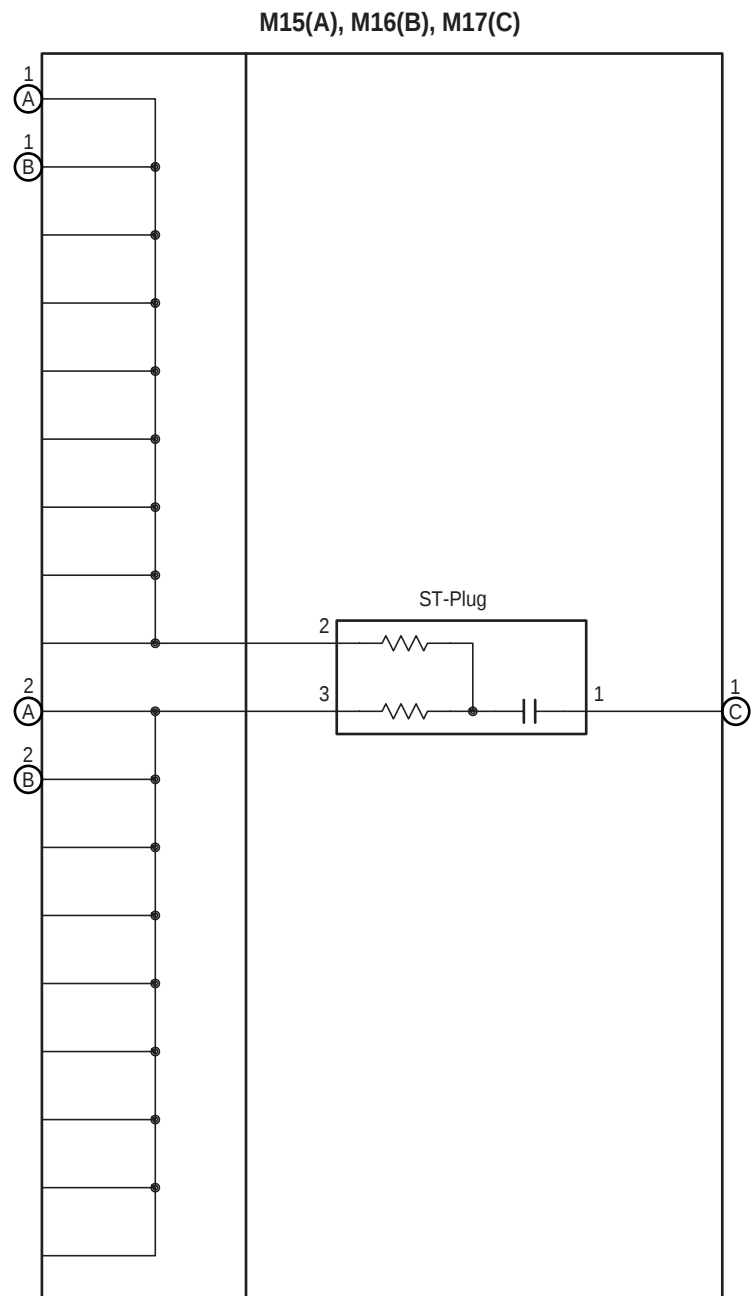
F RELAY LOCATIONS

Junction Connector
(CAN No.4)

Quarter Wheel House RH (See Page 21)

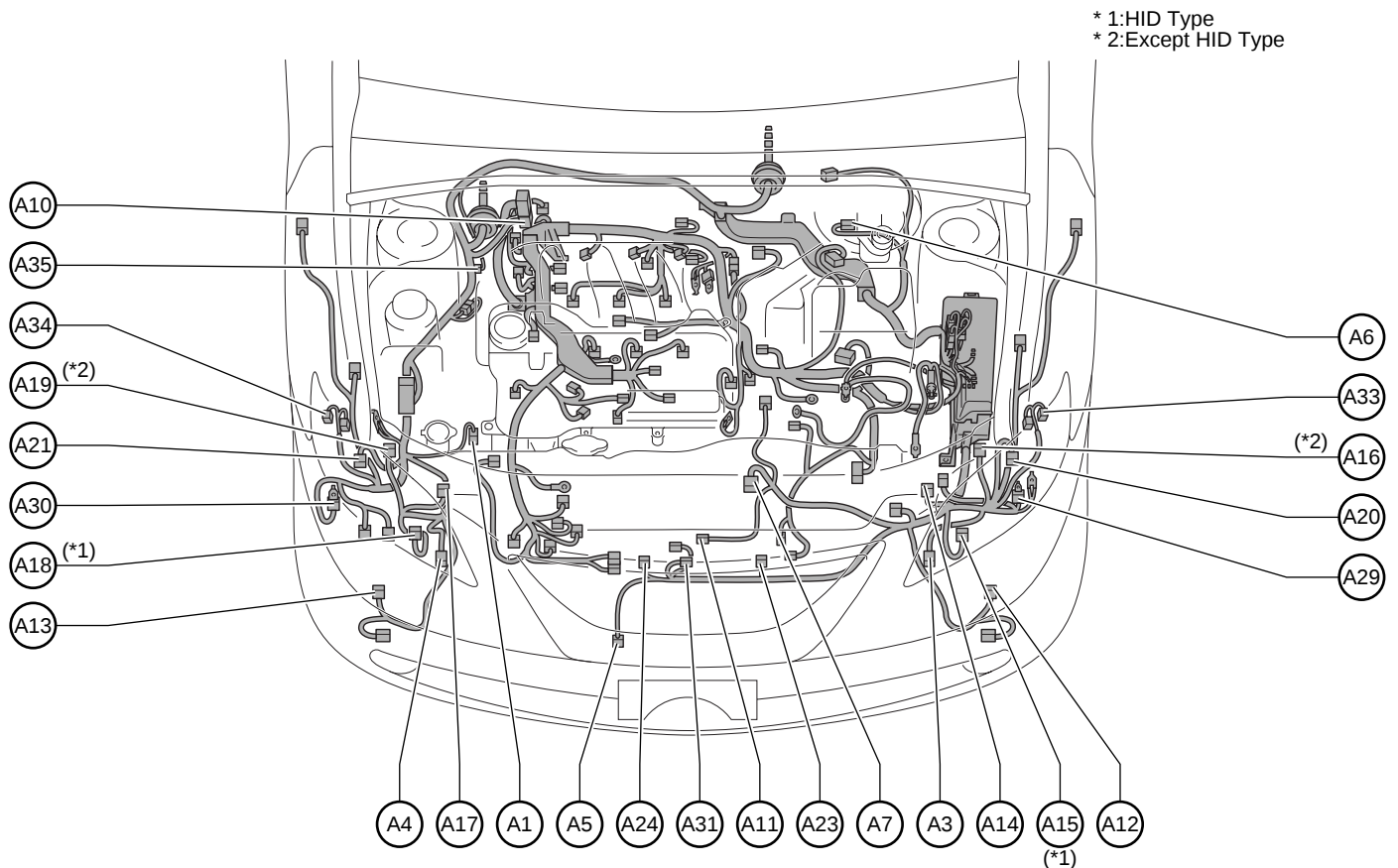


[Junction Connector Inner Circuit]
(CAN No.4)



G ELECTRICAL WIRING ROUTING

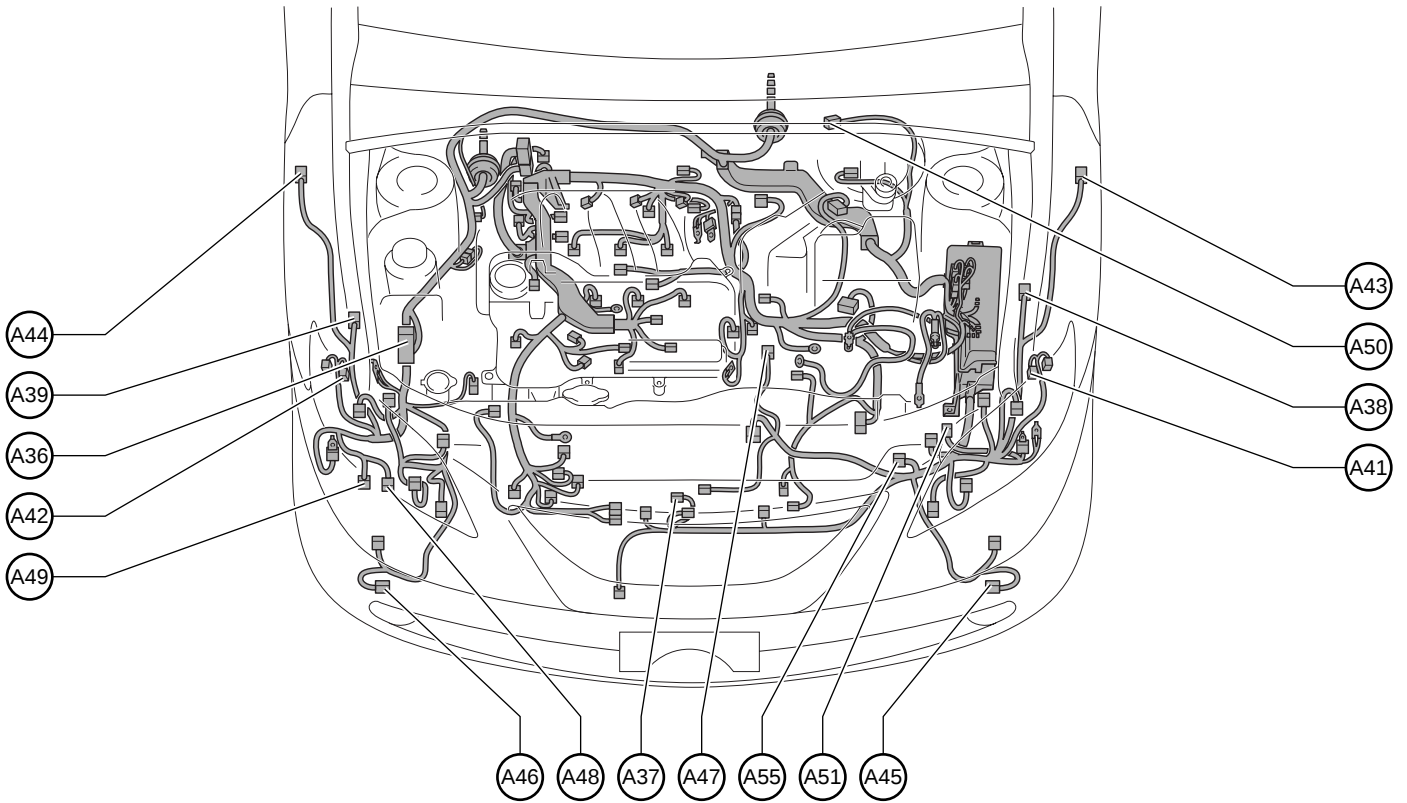
Position of Parts in Engine Compartment



- A 1 A/C Pressure Sensor
- A 3 Airbag Sensor (Front LH)
- A 4 Airbag Sensor (Front RH)
- A 5 Ambient Temp. Sensor
- A 6 Brake Fluid Level Warning SW
- A 7 Cooling Fan ECU
- A10 Engine Control Module
- A11 Engine Hood Courtesy SW
- A12 Fog Lamp (Front LH)
- A13 Fog Lamp (Front RH)
- A14 Headlamp (LH High)
- A15 Headlamp Assembly (LH)
- A16 Headlamp (LH Low)

- A17 Headlamp (RH High)
- A18 Headlamp Assembly (RH)
- A19 Headlamp (RH Low)
- A20 Headlamp Leveling Motor (LH)
- A21 Headlamp Leveling Motor (RH)
- A23 Horn (High)
- A24 Horn (Low)
- A29 Junction Connector
- A30 Junction Connector
- A31 Millimeter Wave Radar Sensor
- A33 Parking Lamp (LH)
- A34 Parking Lamp (RH)
- A35 Security Horn

Position of Parts in Engine Compartment

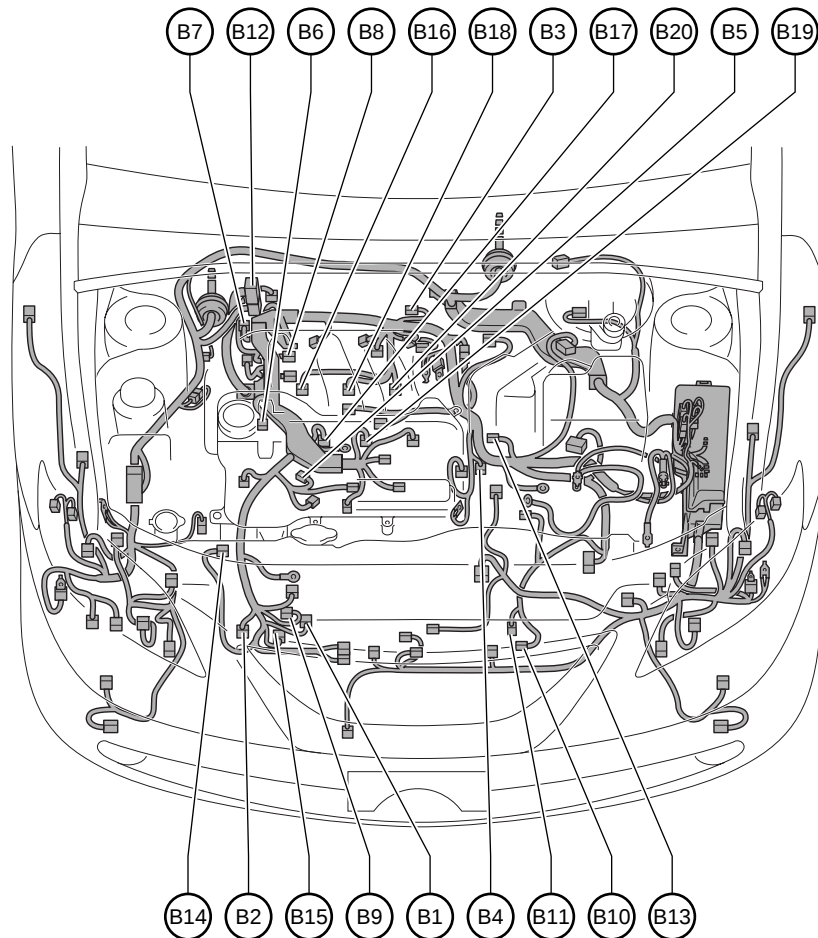


A36 Skid Control ECU with Actuator
 A37 Smog Ventilation Sensor
 A38 Speed Sensor (Front LH)
 A39 Speed Sensor (Front RH)
 A41 Turn Signal Lamp (Front LH)
 A42 Turn Signal Lamp (Front RH)
 A43 Turn Signal Lamp (Front Side LH)
 A44 Turn Signal Lamp (Front Side RH)

A45 Ultrasonic Sensor (Front Corner LH)
 A46 Ultrasonic Sensor (Front Corner RH)
 A47 VSV (Air Intake Control)
 A48 Washer Level Warning SW
 A49 Windshield Washer Motor
 A50 Windshield Wiper Motor
 A51 Wireless Door Lock Buzzer
 A55 Noise Filter (Ghost Buster)

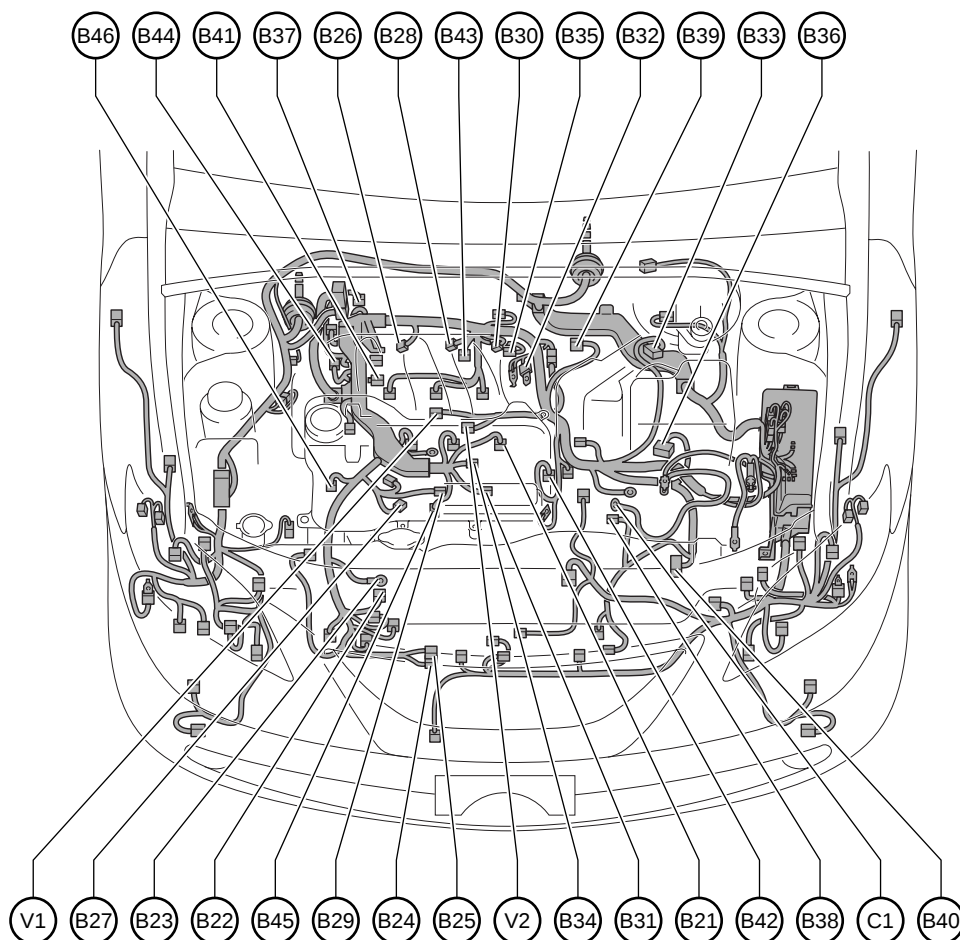
G ELECTRICAL WIRING ROUTING

Position of Parts in Engine Compartment



- | | |
|---|---|
| B 1 A/C Compressor | B 11 Active Control Engine Mount Sensor |
| B 2 A/C Compressor | B 12 Engine Control Module |
| B 3 Air Fuel Ratio Sensor (Bank 1 Sensor 1) | B 13 Engine Coolant Temp. Sensor |
| B 4 Air Fuel Ratio Sensor (Bank 2 Sensor 1) | B 14 Engine Oil Level Sensor |
| B 5 Camshaft Timing Oil Control Valve (LH Exhaust Side) | B 15 Engine Oil Pressure SW |
| B 6 Camshaft Timing Oil Control Valve (LH Intake Side) | B 16 Fuel Injector (No.1) |
| B 7 Camshaft Timing Oil Control Valve (RH Exhaust Side) | B 17 Fuel Injector (No.2) |
| B 8 Camshaft Timing Oil Control Valve (RH Intake Side) | B 18 Fuel Injector (No.3) |
| B 9 Crankshaft Position Sensor | B 19 Fuel Injector (No.4) |
| B 10 Active Control Engine Mount Actuator | B 20 Fuel Injector (No.5) |

Position of Parts in Engine Compartment



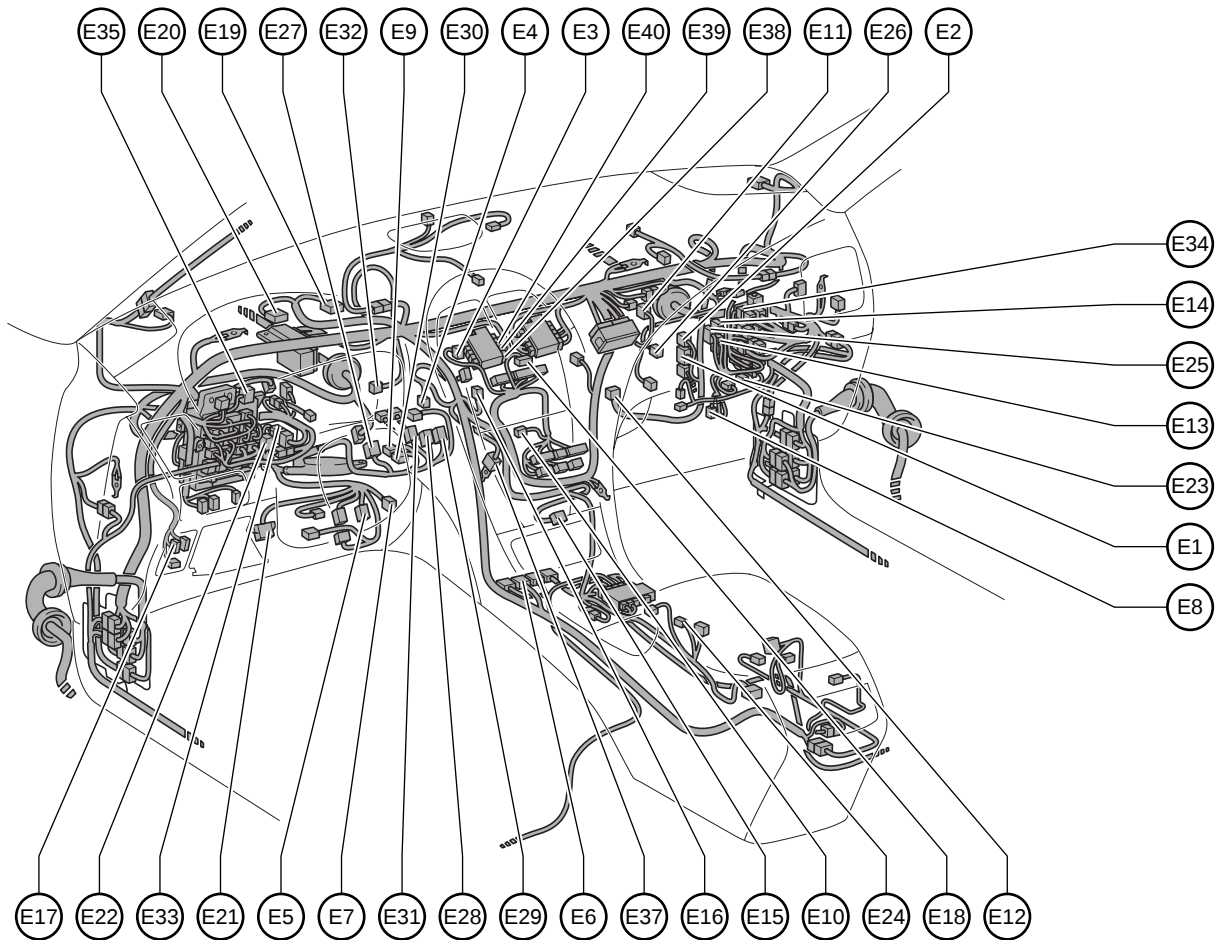
- B21 Fuel Injector (No.6)
- B22 Generator
- B23 Generator
- B24 Heated Oxygen Sensor (Bank 1 Sensor 2)
- B25 Heated Oxygen Sensor (Bank 2 Sensor 2)
- B26 Ignition Coil (No.1)
- B27 Ignition Coil (No.2)
- B28 Ignition Coil (No.3)
- B29 Ignition Coil (No.4)
- B30 Ignition Coil (No.5)
- B31 Ignition Coil (No.6)
- B32 Junction Connector
- B33 Mass Air Flow Meter
- B34 Noise Filter (Ignition LH)
- B35 Noise Filter (Ignition RH)
- B36 Park/Neutral Position SW
- B37 Power Steering Oil Pressure SW
- B38 Starter
- B39 Throttle Body Assembly
- B40 Transmission Control ECU
- B41 VSV (ACIS)
- B42 VSV (Purge)
- B43 VVT Sensor (Bank 1 Exhaust Side)
- B44 VVT Sensor (Bank 1 Intake Side)
- B45 VVT Sensor (Bank 2 Exhaust Side)
- B46 VVT Sensor (Bank 2 Intake Side)

C 1 Starter

- V 1 Knock Control Sensor (Bank 1)
- V 2 Knock Control Sensor (Bank 2)

G ELECTRICAL WIRING ROUTING

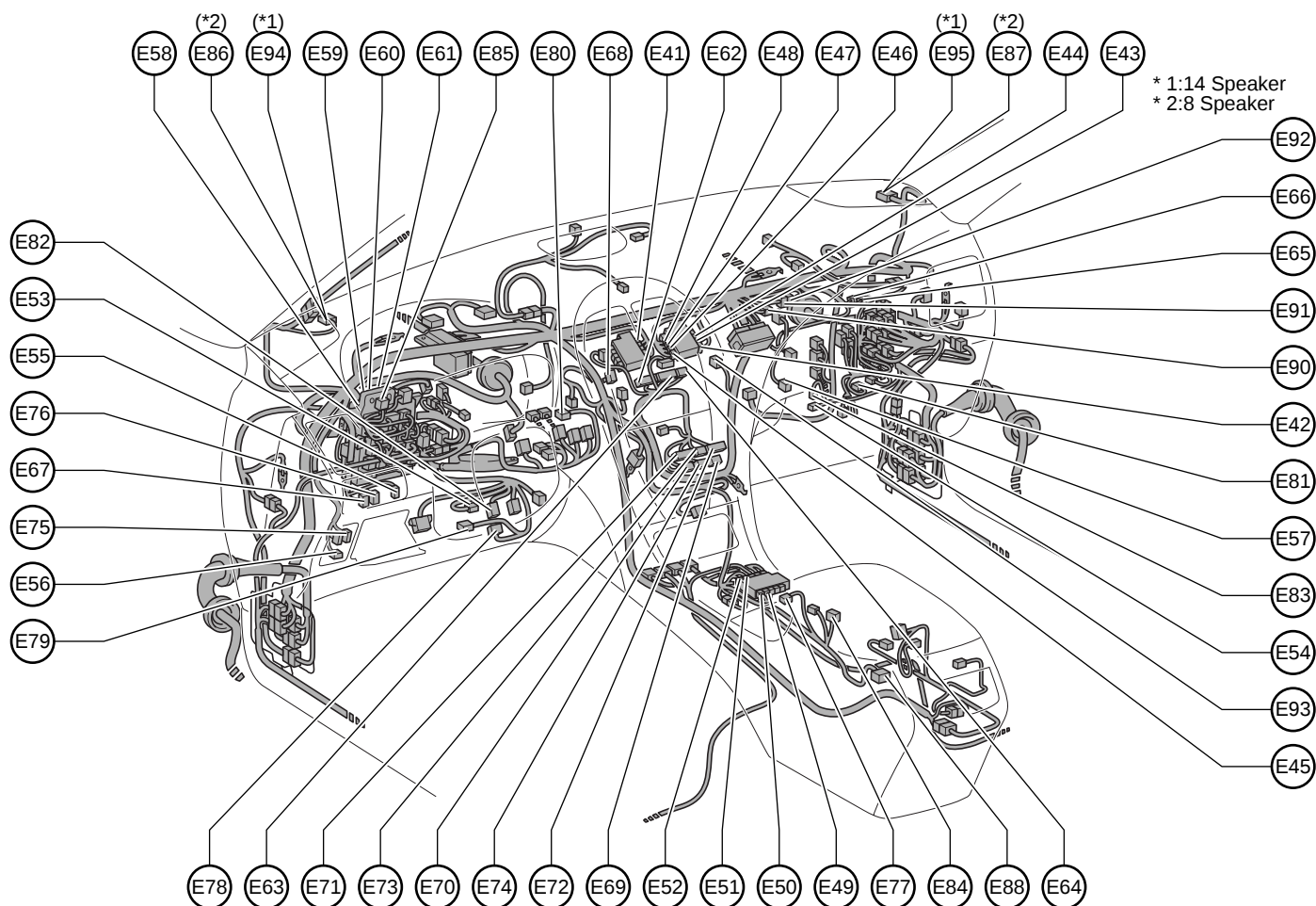
Position of Parts in Instrument Panel



- E 1 A/C Amplifier
- E 2 A/C Amplifier
- E 3 A/C Control Assembly
- E 4 A/C Room Temp. Sensor
- E 5 AFS OFF SW
- E 6 Airbag Sensor Assembly Center
- E 7 Airbag Squib (Driver's Side Knee Airbag)
- E 8 Airbag Squib (Front Passenger's Side Knee Airbag)
- E 9 Airbag Squib (Steering Wheel Pad)
- E10 Antenna Amplifier
- E11 Windshield Wiper Relay
- E12 Blower Motor
- E13 Certification ECU
- E14 Certification ECU
- E15 Cigarette Lighter
- E16 Clearance Warning Buzzer
- E17 Back Sonar SW
- E18 Clock Assembly
- E19 Combination Meter
- E20 Combination Meter

- E21 Data Link Connector 3
- E22 Diode (Door Courtesy Front LH)
- E23 Diode (Door Courtesy Front RH)
- E24 Electrical Key Oscillator (Console)
- E25 Gateway ECU
- E26 Glove Box Lamp
- E27 Headlamp Dimmer SW Assembly
- E28 Windshield Wiper SW Assembly
- E29 Windshield Wiper SW Assembly
- E30 Spiral Cable
- E31 Steering Sensor
- E32 ID Code Box
- E33 Junction Connector
- E34 Junction Connector
- E35 Junction Connector
- E37 Junction Connector
- E38 Junction Connector
- E39 Junction Connector
- E40 Junction Connector

Position of Parts in Instrument Panel



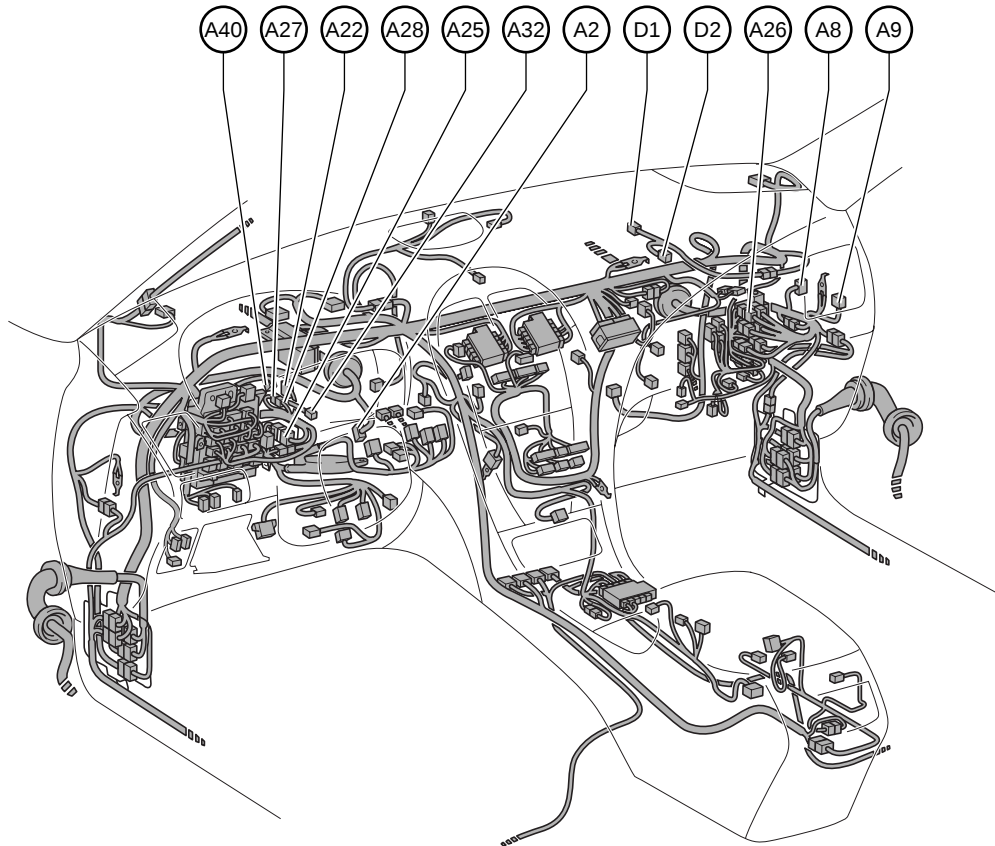
E41 Junction Connector
 E42 Junction Connector
 E43 Junction Connector
 E44 Junction Connector
 E45 Junction Connector
 E46 Junction Connector
 E47 Junction Connector
 E48 Junction Connector
 E49 Junction Connector
 E50 Junction Connector
 E51 Junction Connector
 E52 Junction Connector
 E53 Foot Lamp (LH)
 E54 Foot Lamp (RH)
 E55 Light Control Rheostat
 E56 Luggage Compartment Door Opener SW
 E57 Luggage Compartment Door Opener SW (Main)
 E58 Main Body ECU
 E59 Main Body ECU
 E60 Main Body ECU
 E61 Main Body ECU
 E62 Multi-Display
 E63 Multi-Display
 E64 Multi-Display
 E65 Outer Mirror Control ECU
 E66 Outer Mirror Control ECU
 E67 Outer Mirror SW

E68 Power SW
 E69 Radio Receiver Assembly
 E70 Radio Receiver Assembly
 E71 Radio Receiver Assembly
 E72 Radio Receiver Assembly
 E73 Radio Receiver Assembly
 E74 Radio Receiver Assembly
 E75 Rear Sunshade SW
 E76 Retractable Outer Mirror SW
 E77 Shift Lock Control ECU
 E78 Steering Lock ECU
 E79 Tilt and Telescopic ECU
 E80 Tilt Motor
 E81 Tire Pressure Warning ECU
 E82 Tire Pressure Warning Reset SW
 E83 Tire Pressure Warning Select SW
 E84 Transmission Control SW
 E85 Turn Signal Flasher
 E86 Tweeter (Instrument Panel LH)
 E87 Tweeter (Instrument Panel RH)
 E88 Yaw Rate Sensor
 E90 Diode (Interior Light)
 E91 Junction Connector
 E92 Junction Connector
 E93 VSC Warning Buzzer
 E94 Speaker (Instrument Panel LH)
 E95 Speaker (Instrument Panel RH)

* 1:14 Speaker
 * 2:8 Speaker

G ELECTRICAL WIRING ROUTING

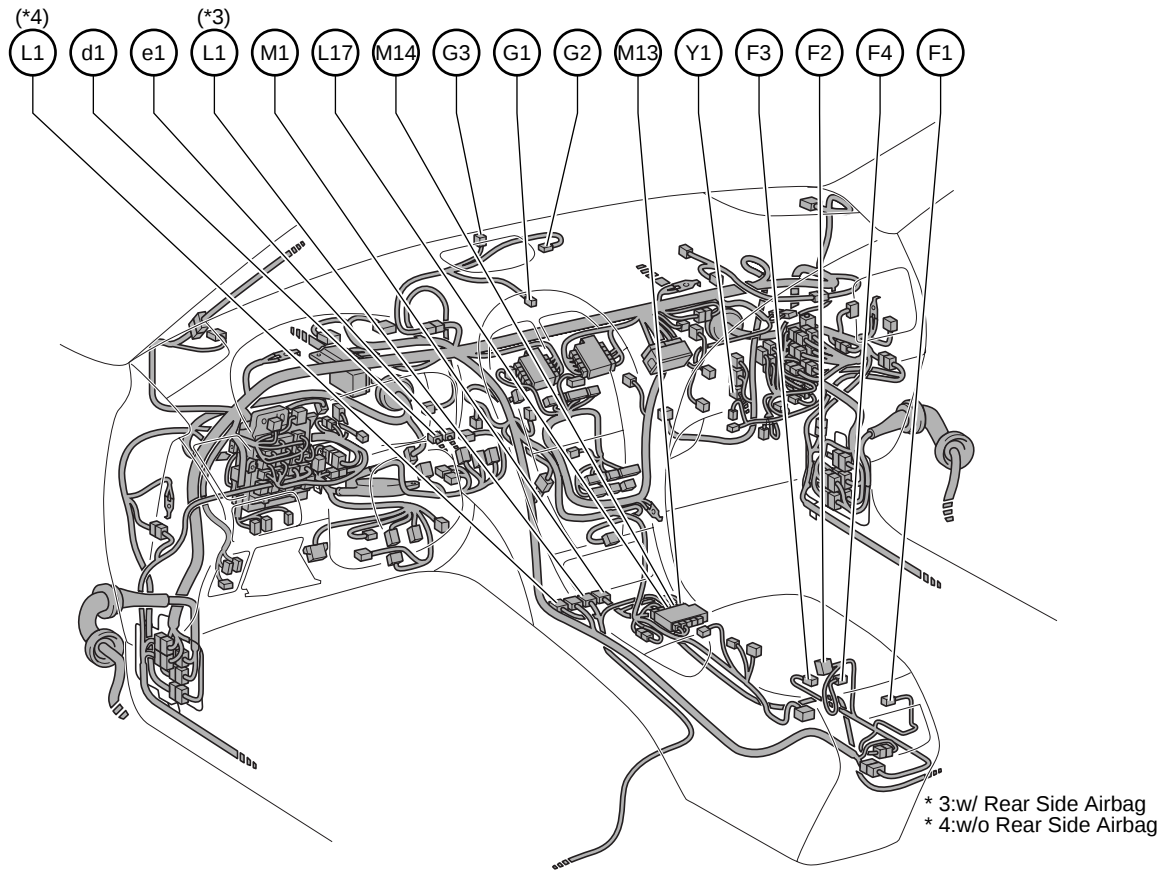
Position of Parts in Instrument Panel



- A 2 Accelerator Position Sensor
- A 8 Distance Control ECU
- A 9 Active Control Engine Mount ECU
- A22 Headlamp Swivel ECU
- A25 Junction Connector
- A26 Junction Connector
- A27 Junction Connector
- A28 Junction Connector
- A32 Parking Brake SW
- A40 Stop Lamp SW

- D 1 Airbag Squib (Front Passenger's Airbag Assembly)
- D 2 Airbag Squib (Front Passenger's Airbag Assembly)

Position of Parts in Instrument Panel



F 1 Console Box Lamp
 F 2 Power Outlet Socket
 F 3 Seat Heater SW
 F 4 Stereo Jack Adapter

G 1 Security Indicator Lamp
 G 2 Speaker (Center)
 G 3 Automatic Light Control Sensor

L 1 Airbag Sensor Assembly Center
 L 17 Junction Connector

M 1 Airbag Sensor Assembly Center
 M13 Junction Connector
 M14 Junction Connector

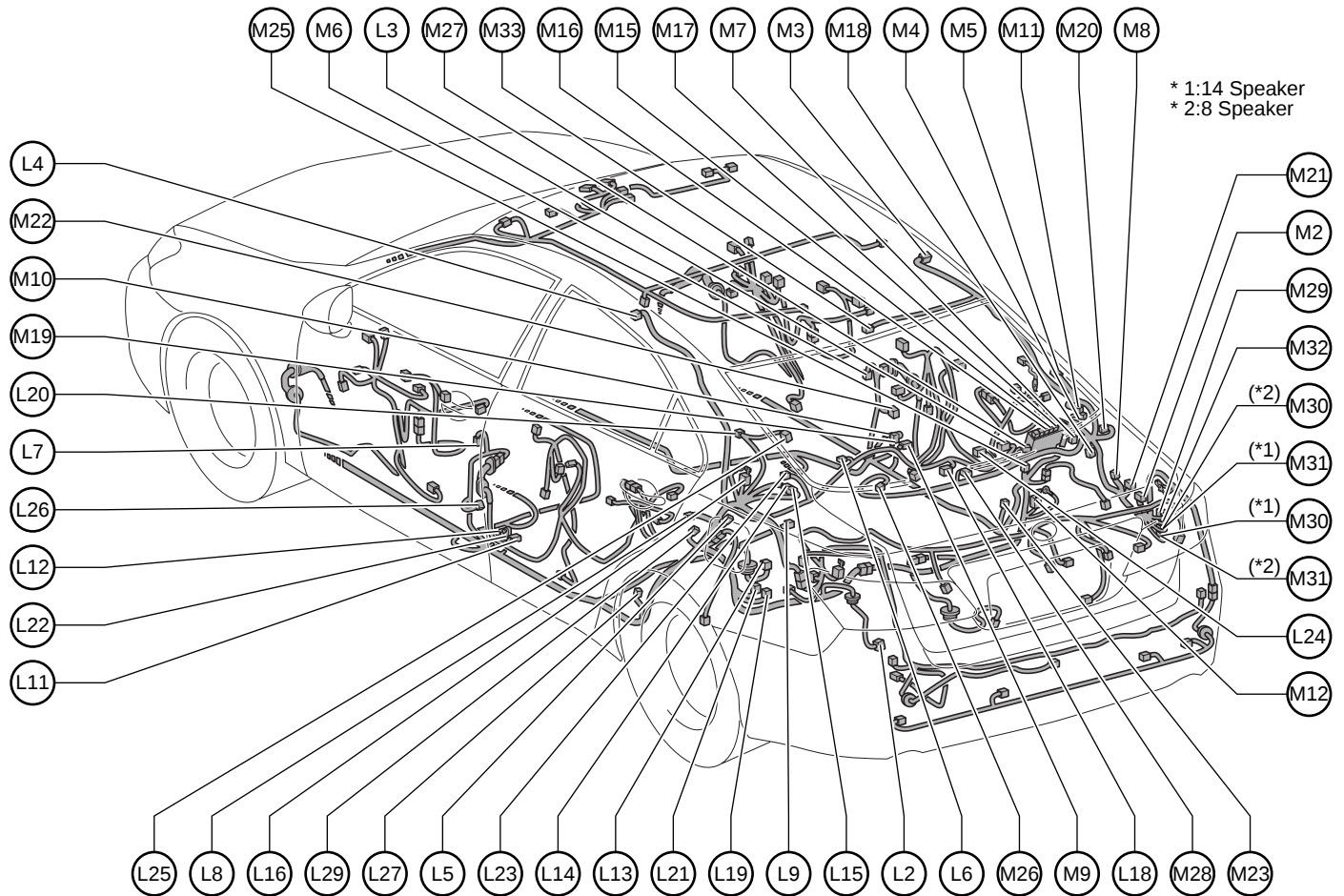
Y 1 A/C Amplifier
 A/C Blower Assembly

d 1 Spiral Cable
 Steering Pad SW

e 1 Cruise Control SW
 Spiral Cable

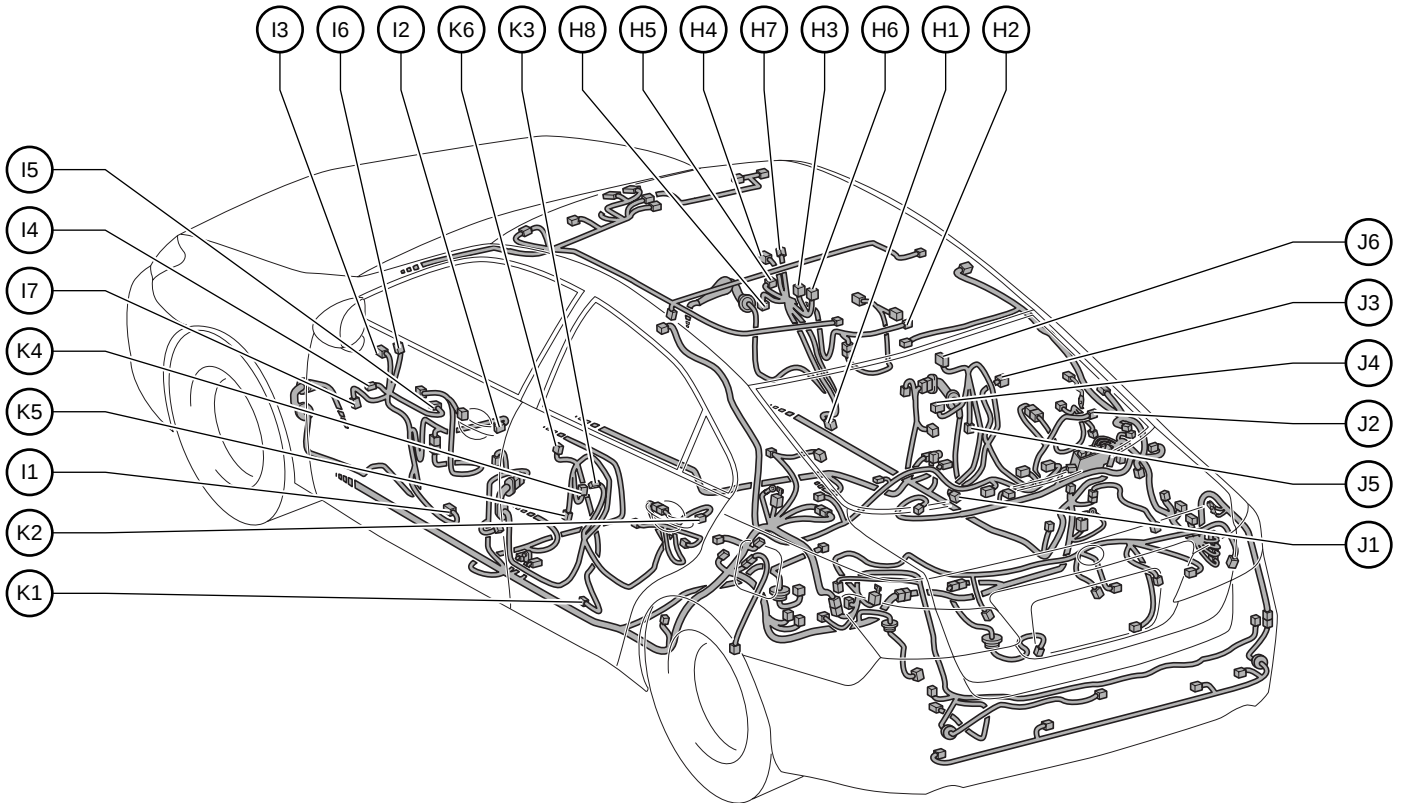
G ELECTRICAL WIRING ROUTING

Position of Parts in Body



- | | |
|---|--|
| L 2 Canister Pump Module | M 2 Clearance Warning ECU |
| L 3 Center Stop Lamp | M 3 Curtain Shield Airbag Squib (RH) |
| L 4 Curtain Shield Airbag Squib (LH) | M 4 Diode (Door Courtesy Rear RH) |
| L 5 Diode (Door Courtesy Rear LH) | M 5 Door Control Receiver |
| L 6 Diode (Luggage Compartment Lamp) | M 6 Door Courtesy SW (Front RH) |
| L 7 Door Courtesy SW (Front LH) | M 7 Door Courtesy SW (Rear RH) |
| L 8 Door Courtesy SW (Rear LH) | M 8 Electrical Key Antenna |
| L 9 Electrical Key Oscillator (Rear Seat) | M 9 Front Seat Outer Belt (RH) |
| L 11 Front Seat Outer Belt (LH) | M10 Front Seat Outer Belt Motor (RH) |
| L 12 Front Seat Outer Belt Motor (LH) | M11 Junction Connector |
| L 13 Fuel Suction Pump and Gage Assembly | M12 Junction Connector |
| L 14 Junction Connector | M15 Junction Connector |
| L 15 Junction Connector | M16 Junction Connector |
| L 16 Junction Connector | M17 Junction Connector |
| L 18 Luggage Compartment Lamp | M18 Option Connector (Satellite Digital Audio Radio Service) |
| L 19 Noise Filter (Dome Lamp) | M19 Pretensioner (Front RH) |
| L 20 Noise Filter (Rear Window Defogger) | M20 Pretensioner (Rear RH) |
| L 21 Noise Filter (Stop Lamp) | M21 Seat Belt Control ECU |
| L 22 Pretensioner (Front LH) | M22 Side Airbag Sensor (Front RH) |
| L 23 Pretensioner (Rear LH) | M23 Side Airbag Sensor (Rear RH) |
| L 24 Rear Sunshade Relay | M25 Side Airbag Squib (Rear RH) |
| L 25 Rear Window Defogger | M26 Speaker (Package Tray LH) |
| L 26 Side Airbag Sensor (Front LH) | M27 Speaker (Package Tray RH) |
| L 27 Side Airbag Sensor (Rear LH) | M28 Speaker (Woofer) |
| L 29 Side Airbag Squib (Rear LH) | M29 Stereo Component Amplifier |
| | M30 Stereo Component Amplifier |
| | M31 Stereo Component Amplifier |
| | M32 Stereo Component Amplifier |
| | M33 Tire Pressure Warning Antenna and Receiver |

Position of Parts in Body



H 1 Courtesy Lamp (Front Door RH)
 H 2 Door Lock Assembly (Front RH)
 H 3 Door Lock Control SW
 H 4 Outer Rear View Mirror (RH)
 H 5 Power Window ECU (Front RH)
 H 6 Power Window SW (Front RH)
 H 7 Seat Memory SW (RH)
 H 8 Speaker (Front Door RH)

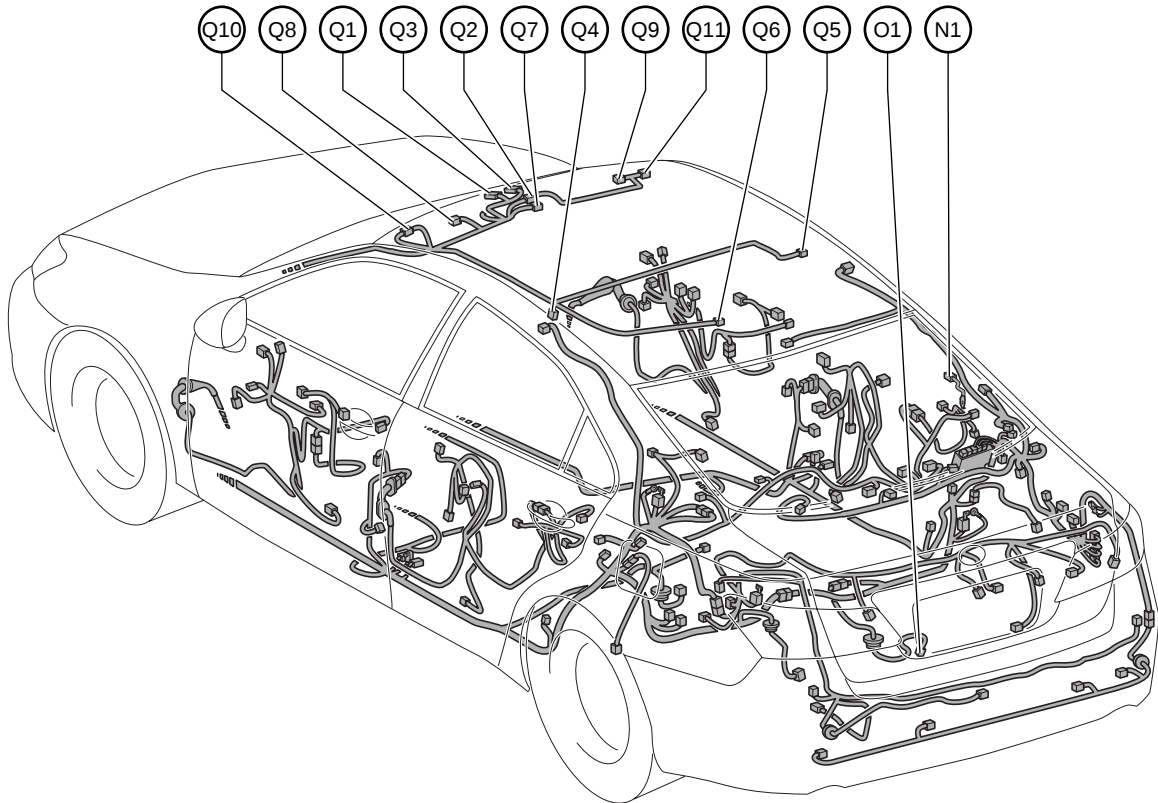
I 1 Courtesy Lamp (Front Door LH)
 I 2 Door Lock Assembly (Front LH)
 I 3 Outer Rear View Mirror (LH)
 I 4 Power Window ECU (Front LH)
 I 5 Power Window Master SW
 I 6 Seat Memory SW (LH)
 I 7 Speaker (Front Door LH)

J 1 Courtesy Lamp (Rear Door RH)
 J 2 Door Lock Assembly (Rear RH)
 J 3 Power Window ECU (Rear RH)
 J 4 Power Window SW (Rear RH)
 J 5 Speaker (Rear Door RH)
 J 6 Tweeter (Rear Door RH)

K 1 Courtesy Lamp (Rear Door LH)
 K 2 Door Lock Assembly (Rear LH)
 K 3 Power Window ECU (Rear LH)
 K 4 Power Window SW (Rear LH)
 K 5 Speaker (Rear Door LH)
 K 6 Tweeter (Rear Door LH)

G ELECTRICAL WIRING ROUTING

Position of Parts in Body

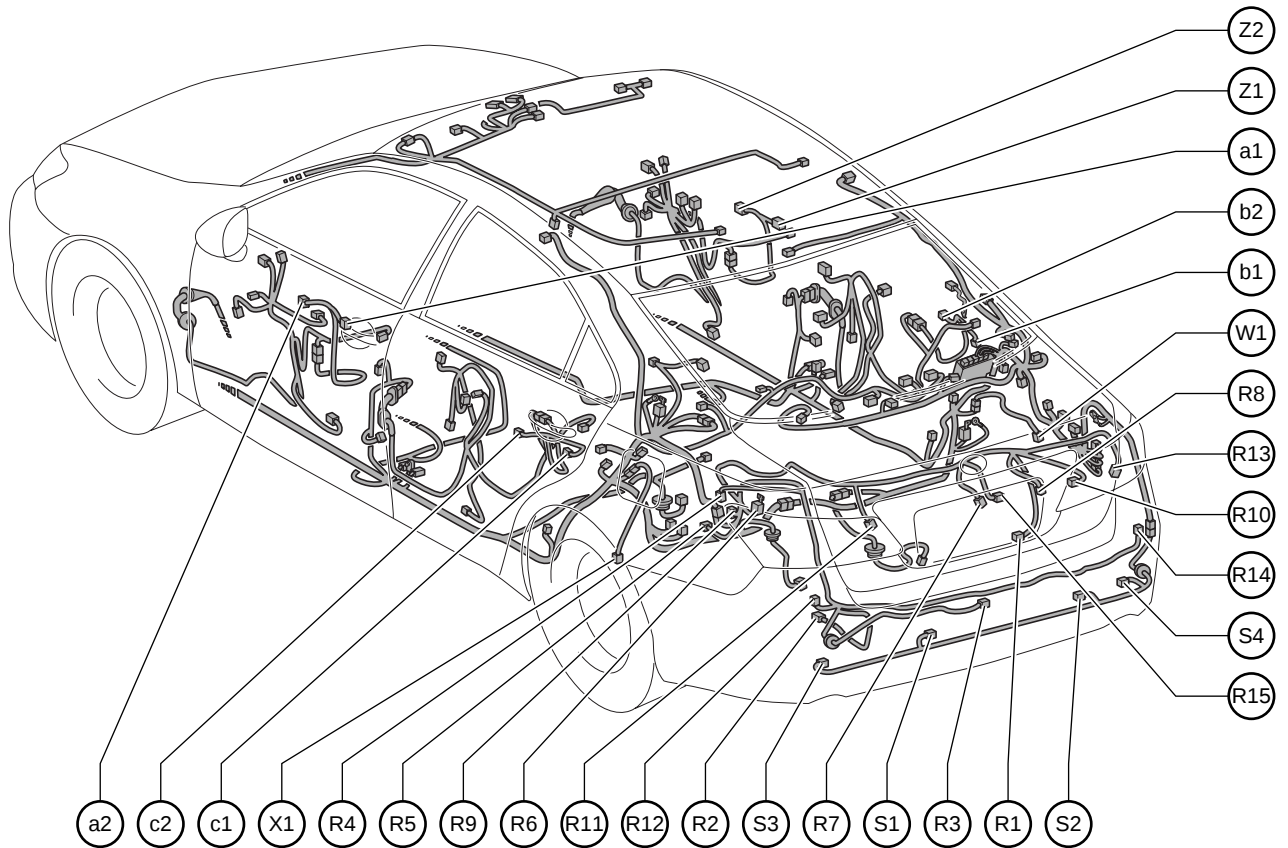


N 1 Rear Window Defogger

O 1 Height Control Sensor

Q 1 Inner Rear View Mirror
 Q 2 Overhead J/B
 Q 3 Rain Sensor
 Q 4 Map Lamp (Rear LH)
 Q 5 Map Lamp (Rear RH)
 Q 6 Room Lamp (Rear)
 Q 7 Sliding Roof Control ECU
 Q 8 Vanity Lamp (LH)
 Q 9 Vanity Lamp (RH)
 Q10 Vanity Lamp SW (LH)
 Q11 Vanity Lamp SW (RH)

Position of Parts in Body



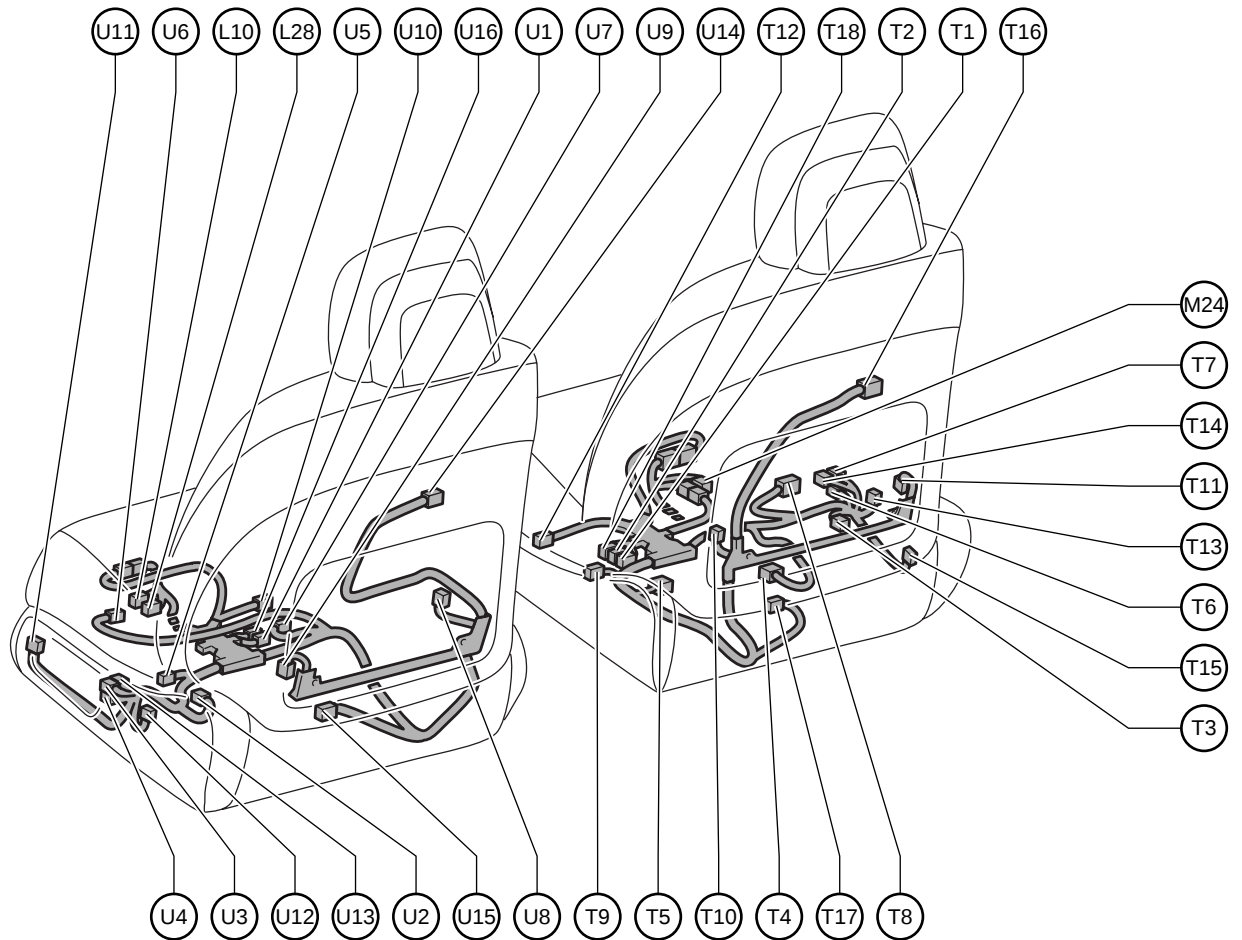
- R 1 Door Lock Assembly (Luggage)
- R 2 Electrical Key Oscillator (Inside Luggage Room)
- R 3 Electrical Key Oscillator (Outside Luggage Room)
- R 4 Fuel Lid Opener Motor
- R 5 Junction Connector
- R 6 Junction Connector
- R 7 License Plate Lamp (LH)
- R 8 License Plate Lamp (RH)
- R 9 Lamp Failure Indicator Sensor
- R10 Luggage Electrical Key SW
- R11 Rear Combination Lamp (LH)
- R12 Rear Combination Lamp (LH)
- R13 Rear Combination Lamp (RH)
- R14 Rear Combination Lamp (RH)
- R15 Television Camera

- W 1 Speed Sensor (Rear RH)
- X 1 Speed Sensor (Rear LH)
- Z 1 Door Outside Handle (Front RH)
- Z 2 Electrical Key Oscillator (Front Door RH)
- a 1 Door Outside Handle (Front LH)
- a 2 Electrical Key Oscillator (Front Door LH)
- b 1 Door Outside Handle (Rear RH)
- b 2 Electrical Key Oscillator (Rear Door RH)
- c 1 Door Outside Handle (Rear LH)
- c 2 Electrical Key Oscillator (Rear Door LH)

- S 1 Ultrasonic Sensor (Rear Center LH)
- S 2 Ultrasonic Sensor (Rear Center RH)
- S 3 Ultrasonic Sensor (Rear Corner LH)
- S 4 Ultrasonic Sensor (Rear Corner RH)

G ELECTRICAL WIRING ROUTING

Position of Parts in Seat



L 10 Front Seat Inner Belt (LH)

L 28 Side Airbag Squib (Front LH)

M24 Side Airbag Squib (Front RH)

T 1 Front Seat Inner Belt (RH)

T 2 Front Seat Inner Belt (RH)

T 3 Junction Connector

T 4 Occupant Classification ECU

T 5 Occupant Classification Sensor

T 6 Position Control ECU and SW (Front RH Seat)

T 7 Position Control ECU and SW (Front RH Seat)

T 8 Power Seat Motor (Front RH Seat Front Vertical Control)

T 9 Power Seat Motor (Front RH Seat Lifter Control)

T 10 Power Seat Motor

(Front RH Seat Lumbar Support Control)

T 11 Power Seat Motor (Front RH Seat Reclining Control)

T 12 Power Seat Motor (Front RH Seat Slide Control)

T 13 Power Seat SW

(Front RH Seat Lumbar Support Control)

T 14 Power Seat SW (Front RH Seat)

T 15 Seat Belt Tension Sensor

T 16 Seat Climate Control Blower (Front RH Seat Back)

T 17 Seat Climate Control Blower (Front RH Seat Cushion)

T 18 Seat Heater (RH)

U 1 Front Seat Inner Belt (LH)

U 2 Junction Connector

U 3 Position Control ECU and SW (Front LH Seat)

U 4 Position Control ECU and SW (Front LH Seat)

U 5 Power Seat Motor (Front LH Seat Front Vertical Control)

U 6 Power Seat Motor (Front LH Seat Leg Support Control)

U 7 Power Seat Motor (Front LH Seat Lifter Control)

U 8 Power Seat Motor

(Front LH Seat Lumbar Support Control)

U 9 Power Seat Motor (Front LH Seat Reclining Control)

U10 Power Seat Motor (Front LH Seat Slide Control)

U11 Power Seat SW (Front LH Seat Leg Support Control)

U12 Power Seat SW

(Front LH Seat Lumbar Support Control)

U13 Power Seat SW (Front LH Seat)

U14 Seat Climate Control Blower (Front LH Seat Back)

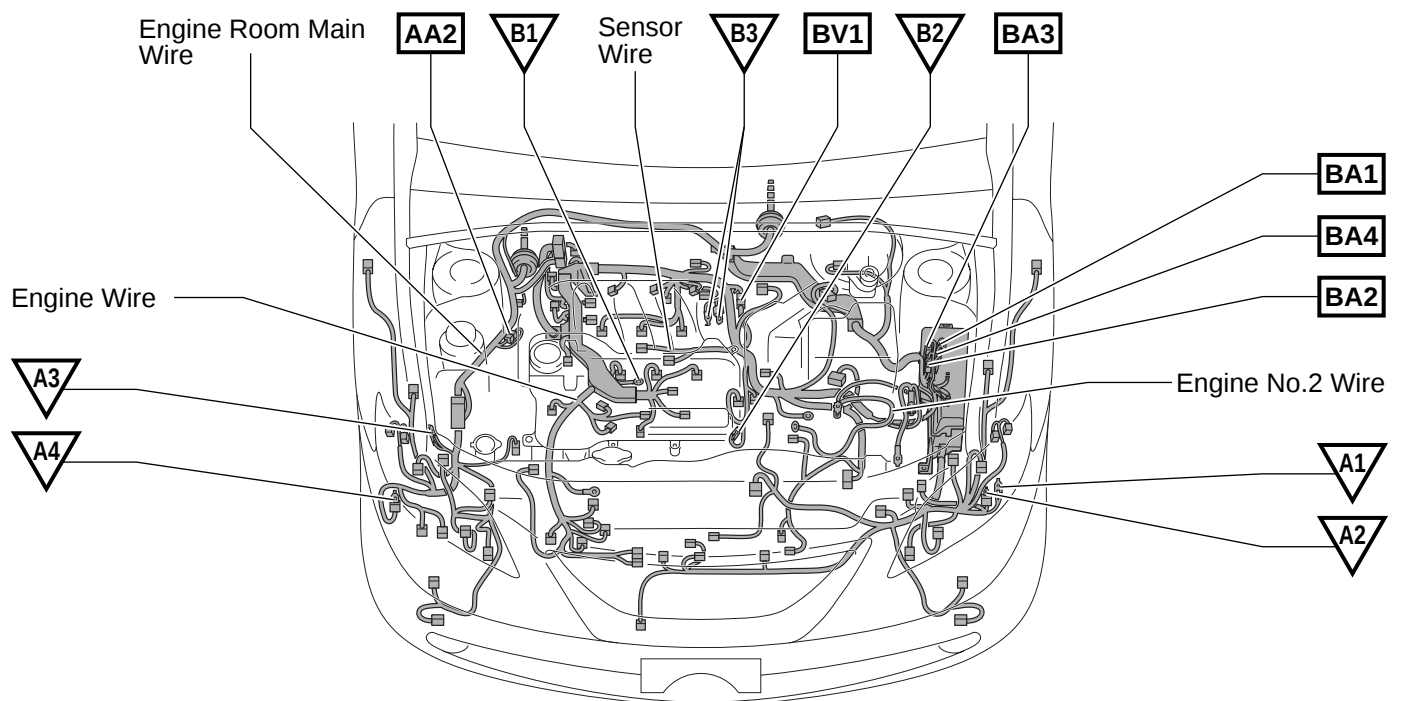
U15 Seat Climate Control Blower (Front LH Seat Cushion)

U16 Seat Heater (LH)

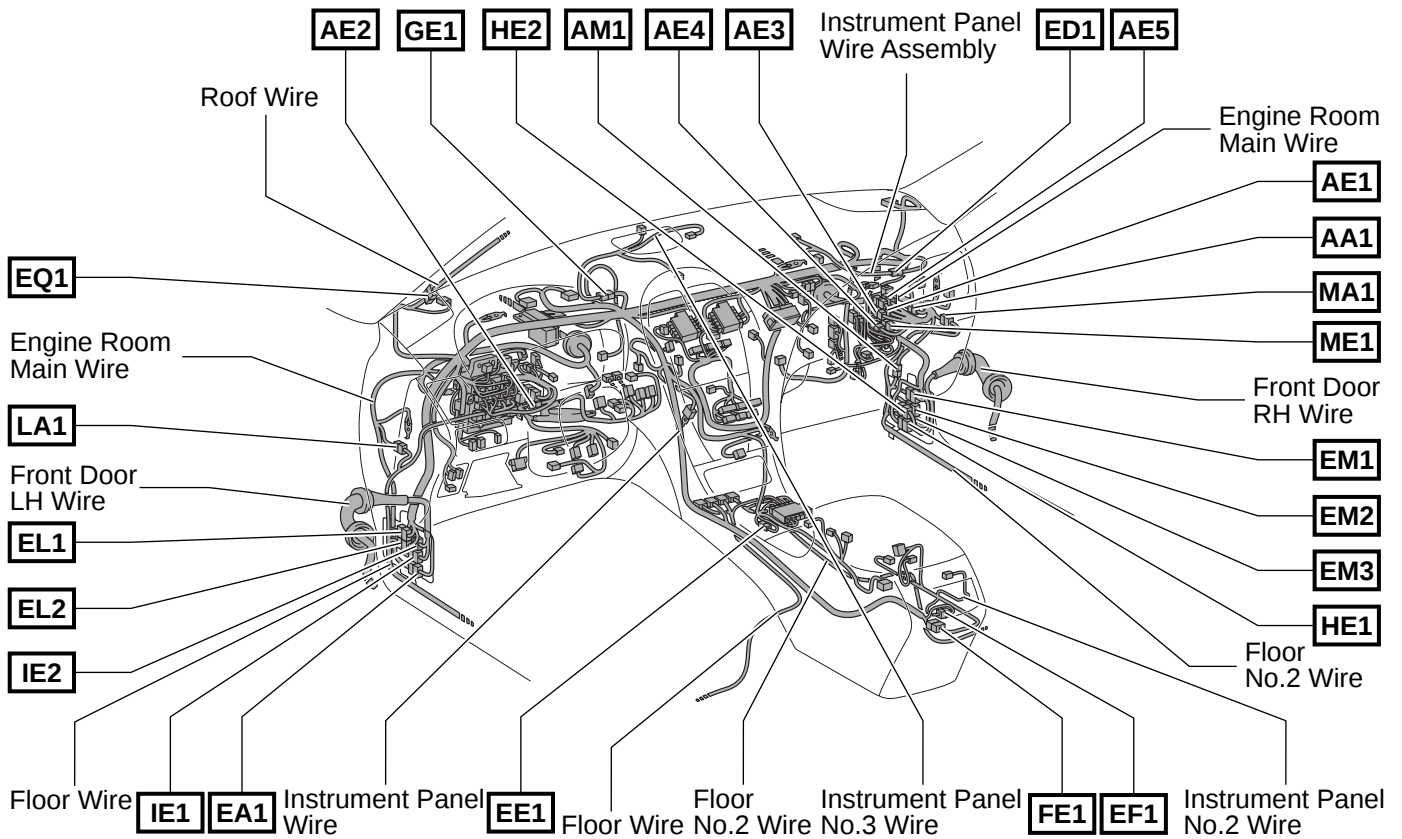
G ELECTRICAL WIRING ROUTING

□ : Location of Connector Joining Wire Harness and Wire Harness

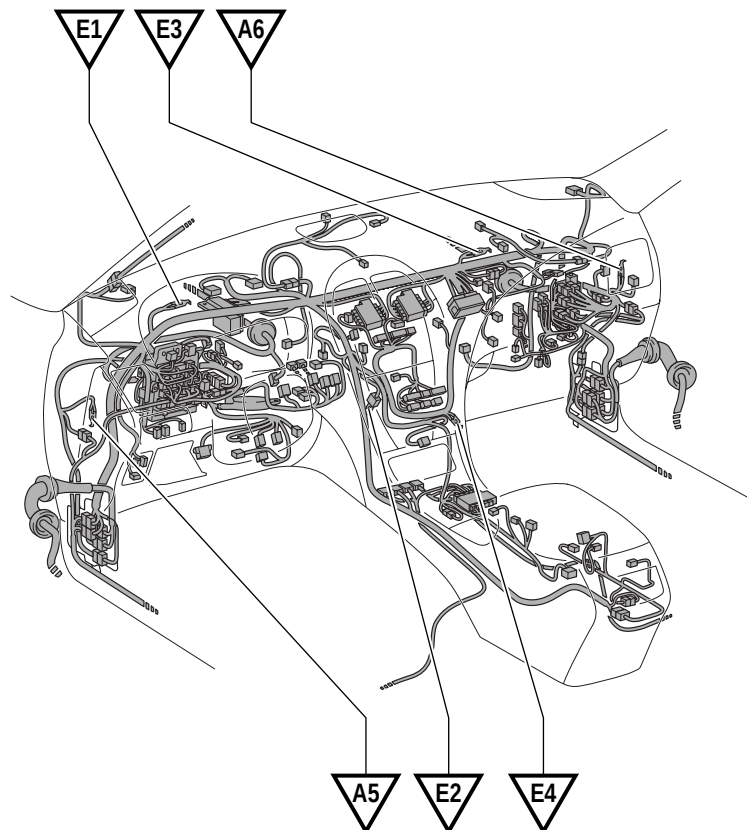
▽ : Location of Ground Points



□ : Location of Connector Joining Wire Harness and Wire Harness



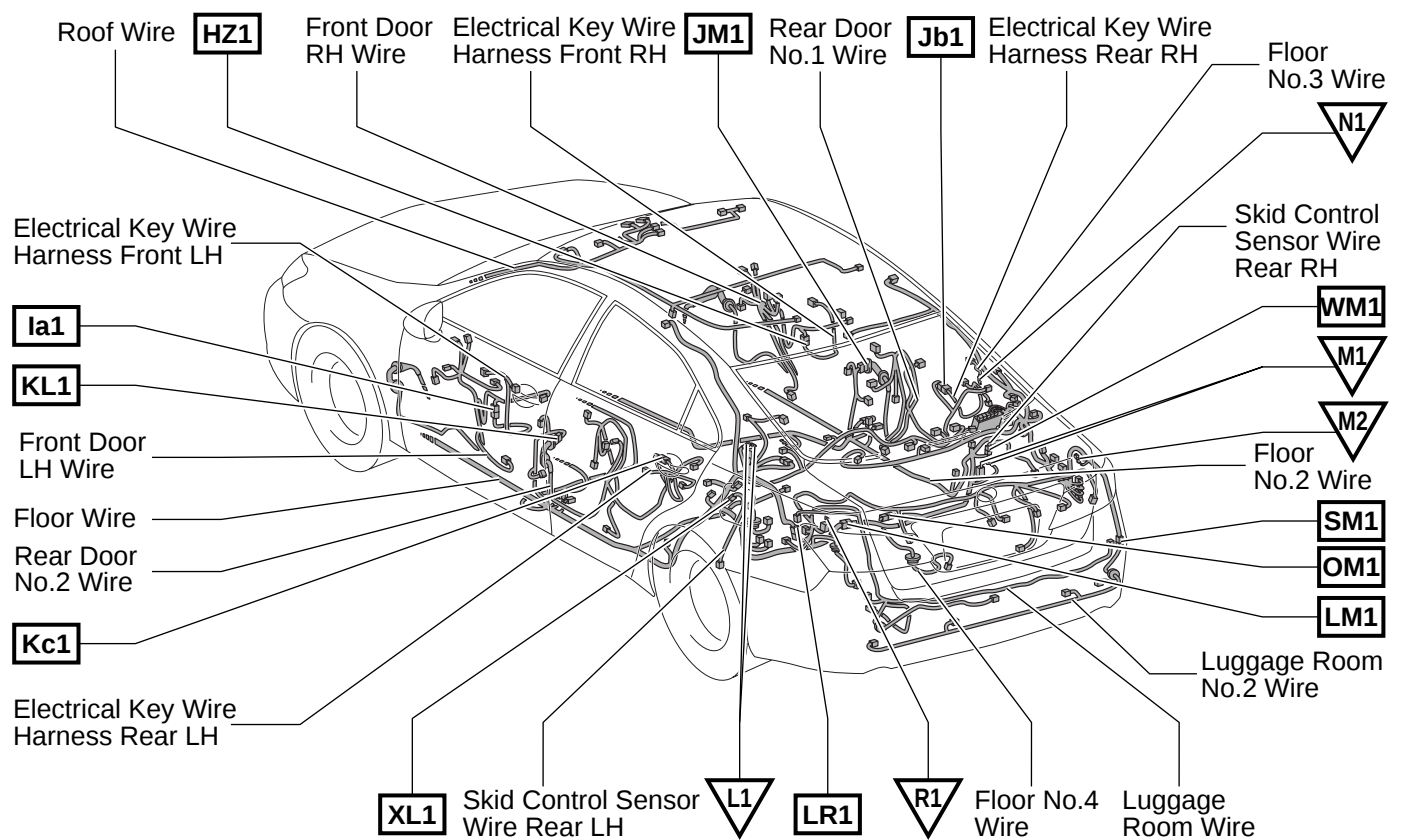
▽ : Location of Ground Points



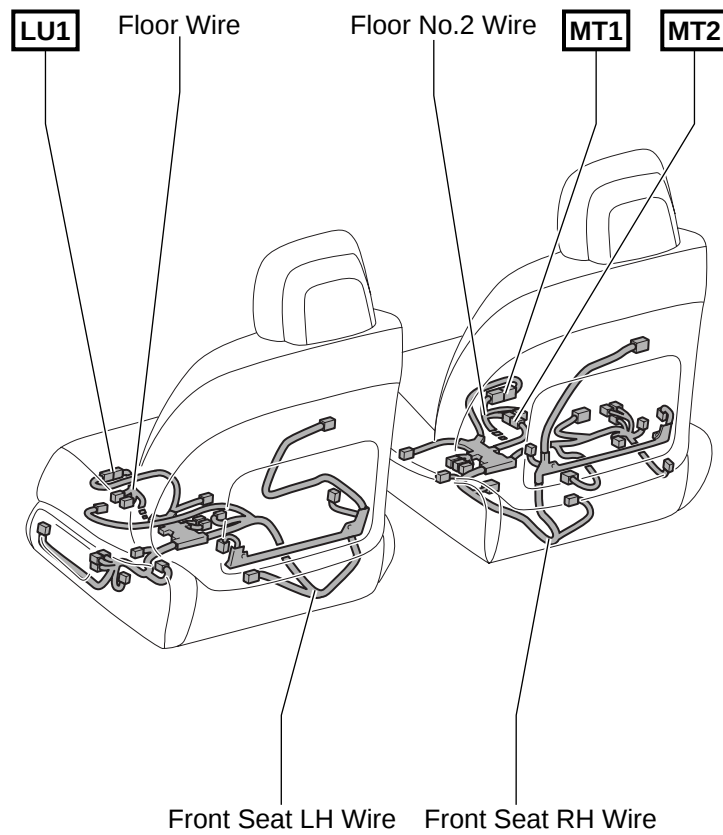
G ELECTRICAL WIRING ROUTING

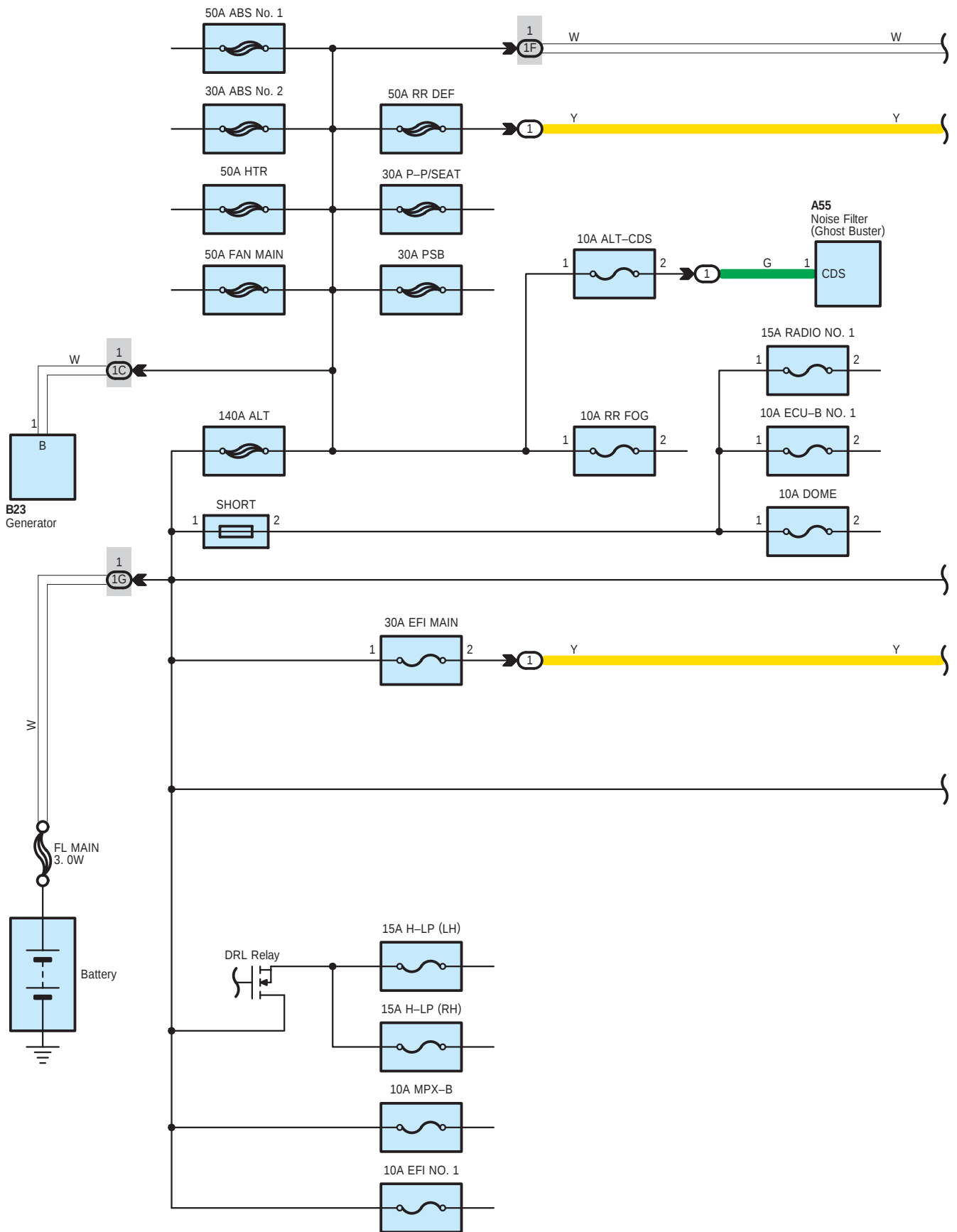
□ : Location of Connector Joining Wire Harness and Wire Harness

▽ : Location of Ground Points

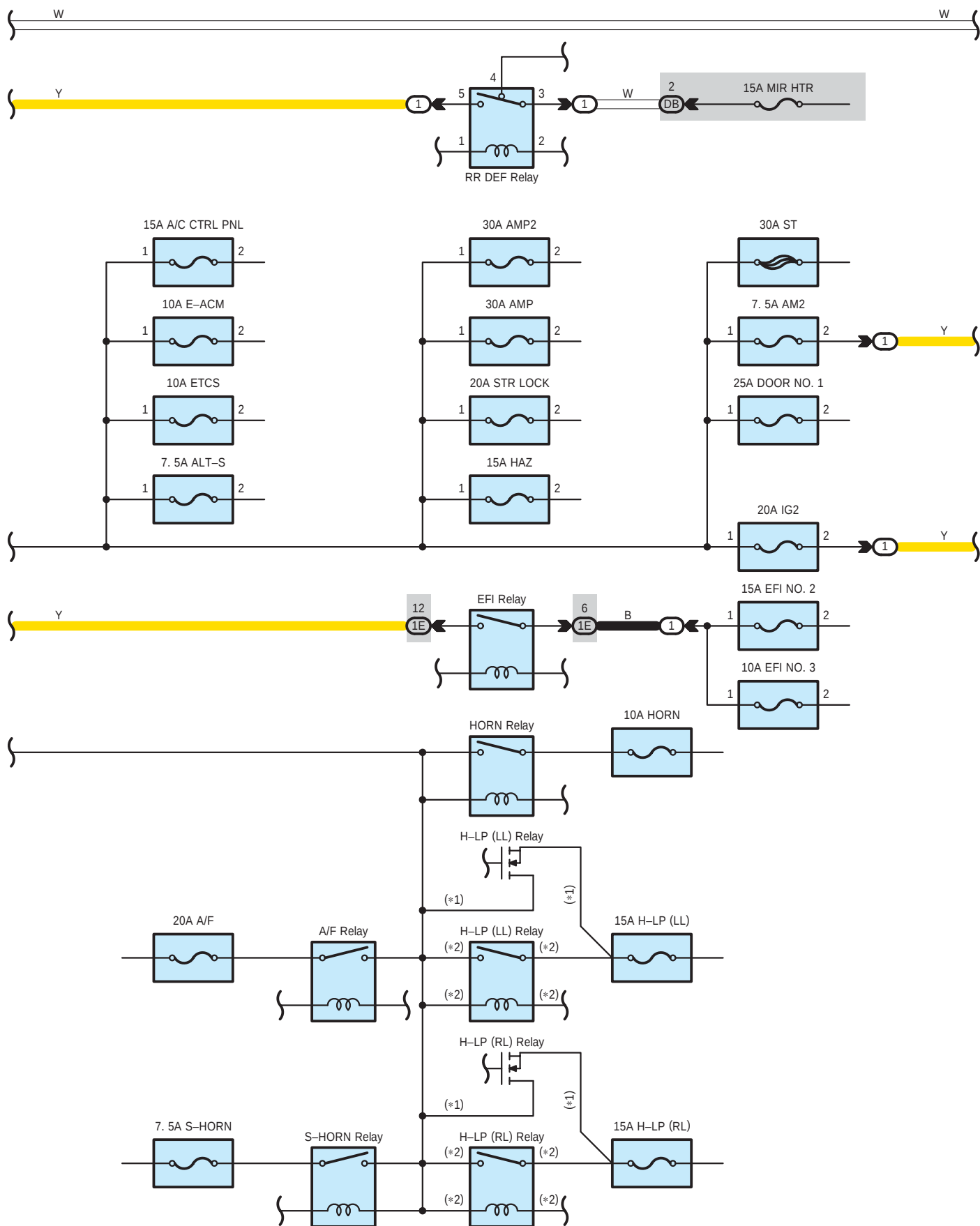


: Location of Connector Joining Wire Harness and Wire Harness

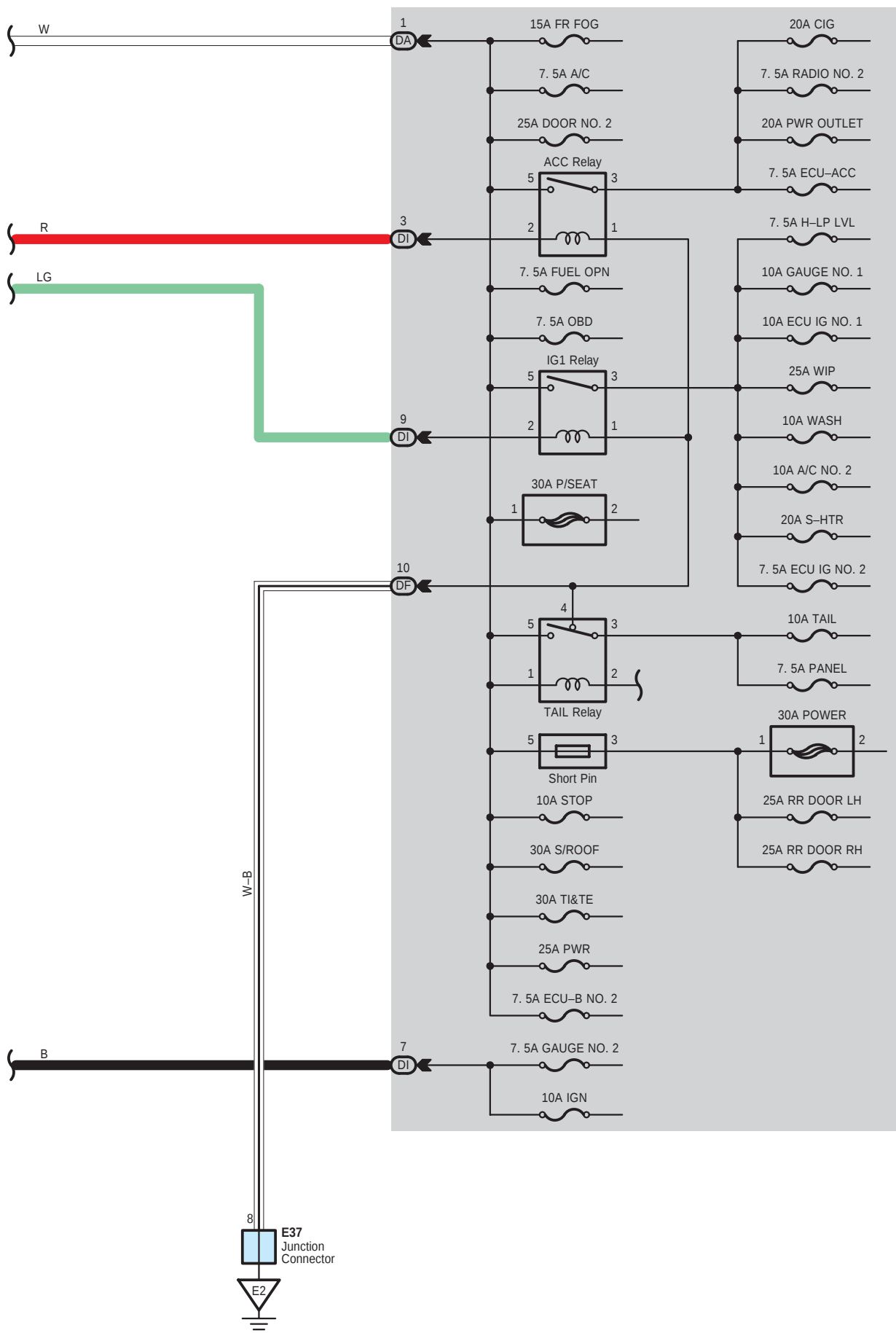




* 1 : HID Type
 * 2 : Except HID Type







Power Source

: Parts Location

Code	See Page	Code	See Page	Code	See Page
A29	54	E37	58	E68	59
A55	55	E60	C	59	
B23	57	E61	D	59	

: Relay Blocks

Code	See Page	Relay Blocks (Relay Block Location)
1	22	Engine Room R/B (Engine Compartment Left)

: Junction Block and Wire Harness Connector

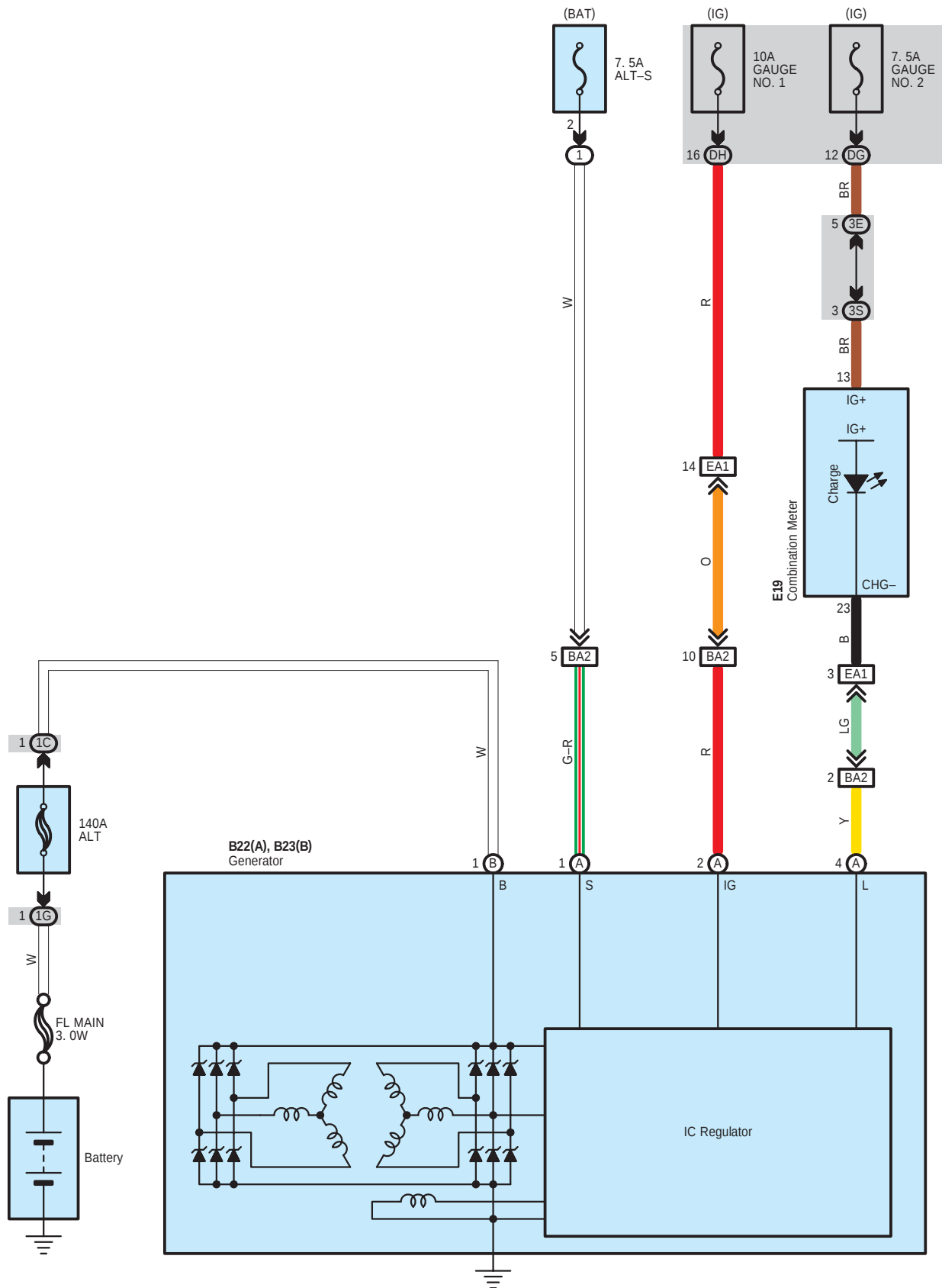
Code	See Page	Junction Block and Wire Harness (Connector Location)
1C	22	Engine Wire and Engine Room J/B (Engine Compartment Left)
1E	24	Engine Room Main Wire and Engine Room J/B (Engine Compartment Left)
1F	22	
1G		
3E		
3I	36	Instrument Panel Wire and J/B No.3 (Instrument Panel Left)
3Q		
3R		
3U		
DA	30	Engine Room Main Wire and Instrument Panel J/B (Lower Finish Panel)
DB		
DF	30	Instrument Panel Wire and Instrument Panel J/B (Lower Finish Panel)
DG	31	
DI		
DM	30	

: Connector Joining Wire Harness and Wire Harness

Code	See Page	Joining Wire Harness and Wire Harness (Connector Location)
EA1	69	Instrument Panel Wire and Engine Room Main Wire (Left Kick Panel)

: Ground Points

Code	See Page	Ground Points Location
A2	68	Front Left Fender Apron
E1	69	Left Side of the Instrument Panel Reinforcement
E2	69	Instrument Panel Brace LH



 : Parts Location

Code		See Page	Code		See Page	Code		See Page
B22	A	57	B23	B	57	E19	58	

 : Relay Blocks

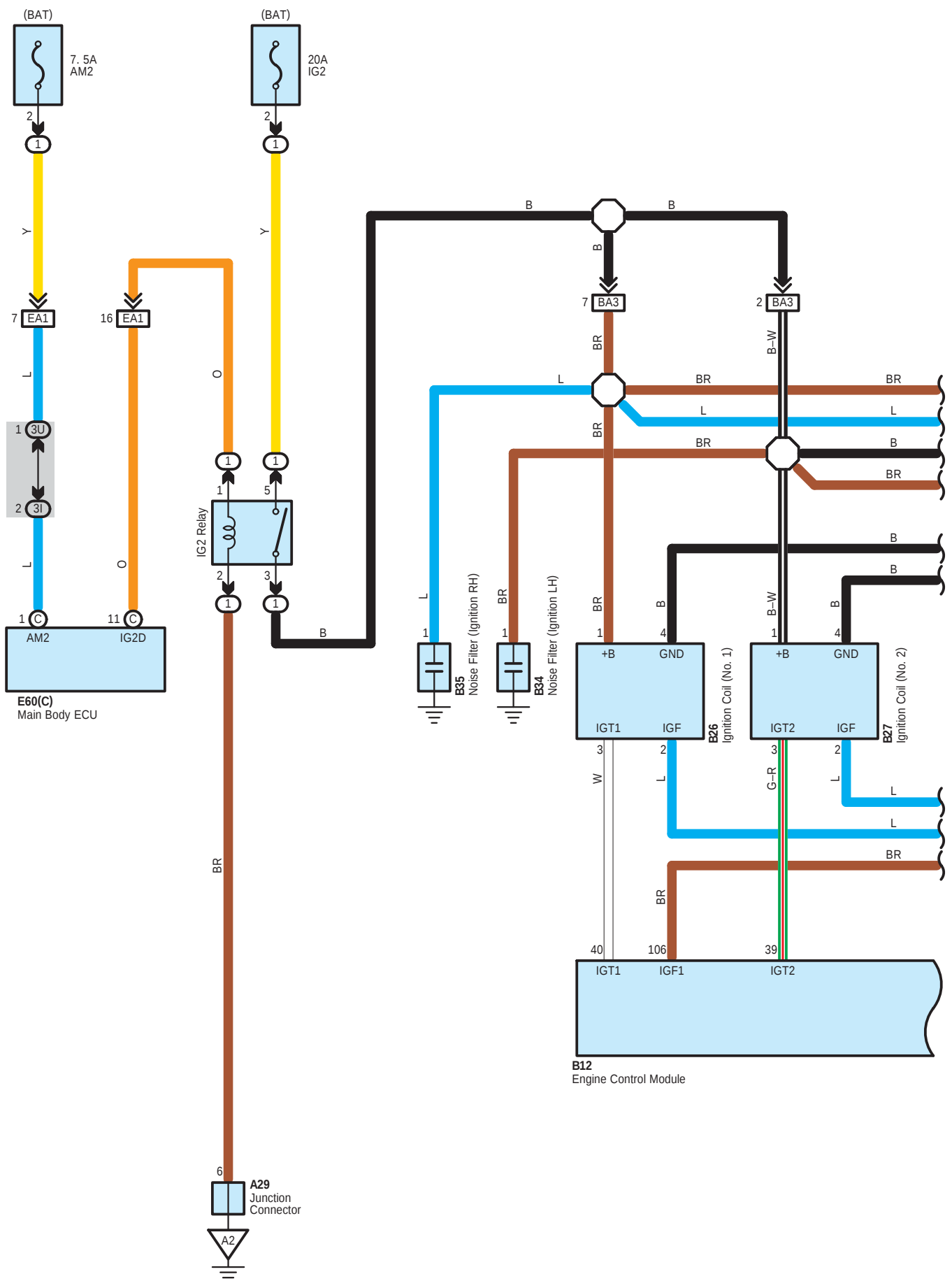
Code	See Page	Relay Blocks (Relay Block Location)
1	22	Engine Room R/B (Engine Compartment Left)

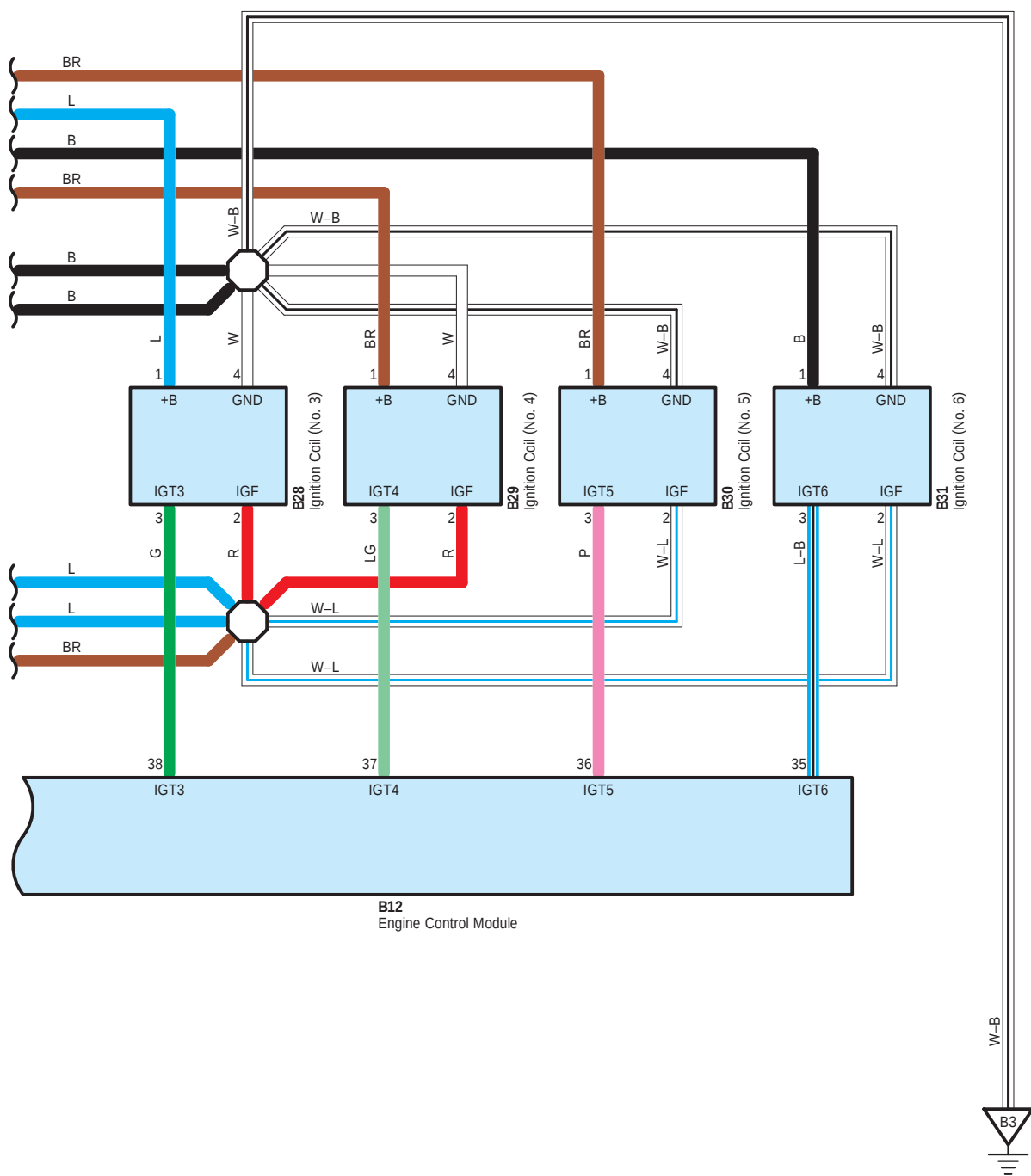
 : Junction Block and Wire Harness Connector

Code	See Page	Junction Block and Wire Harness (Connector Location)
1C	22	Engine Wire and Engine Room J/B (Engine Compartment Left)
1G	22	Engine Room Main Wire and Engine Room J/B (Engine Compartment Left)
3E	36	Instrument Panel Wire and J/B No.3 (Instrument Panel Left)
3S		
DG	31	Instrument Panel Wire and Instrument Panel J/B (Lower Finish Panel)
DH		

 : Connector Joining Wire Harness and Wire Harness

Code	See Page	Joining Wire Harness and Wire Harness (Connector Location)
BA2	68	Engine Wire and Engine Room Main Wire (Inside of the Engine Room R/B and Engine Room J/B)
EA1	69	Instrument Panel Wire and Engine Room Main Wire (Left Kick Panel)





Ignition

: Parts Location

Code	See Page	Code	See Page	Code	See Page
A29	54	B28	57	B34	57
B12	56	B29	57	B35	57
B26	57	B30	57	E60	C 59
B27	57	B31	57		

: Relay Blocks

Code	See Page	Relay Blocks (Relay Block Location)
1	22	Engine Room R/B (Engine Compartment Left)

: Junction Block and Wire Harness Connector

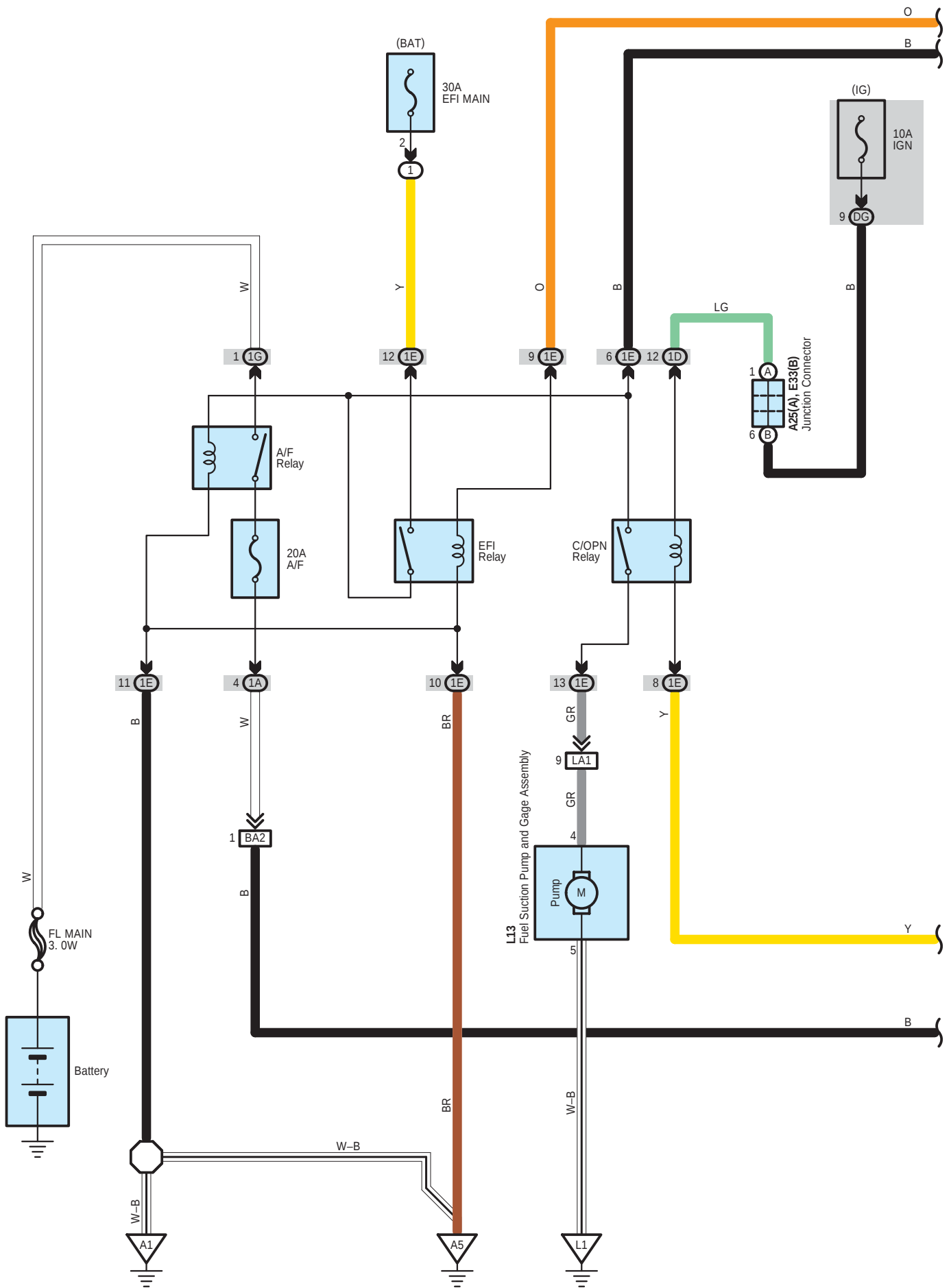
Code	See Page	Junction Block and Wire Harness (Connector Location)
3I	36	Instrument Panel Wire and J/B No.3 (Instrument Panel Left)
3U		

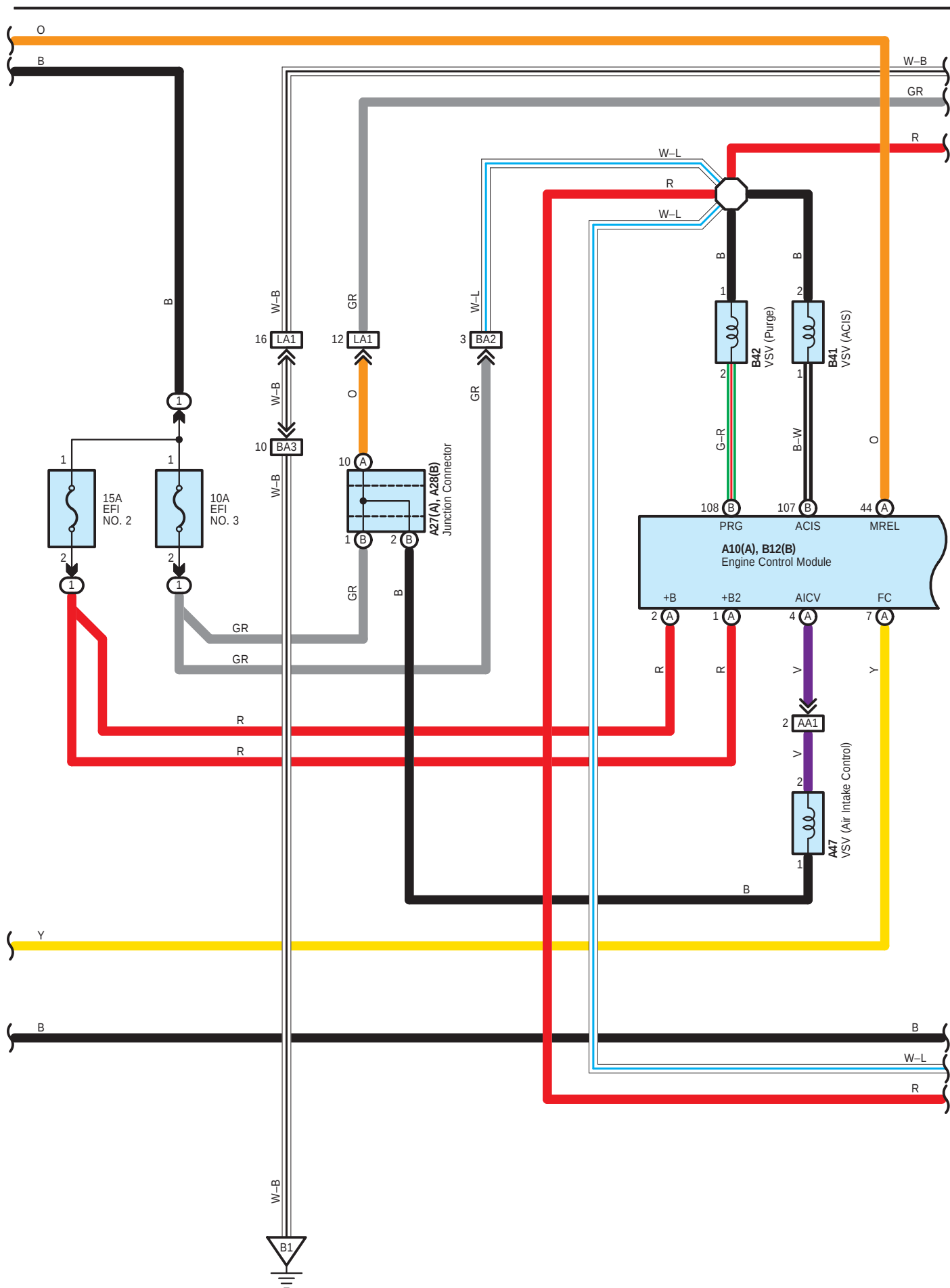
: Connector Joining Wire Harness and Wire Harness

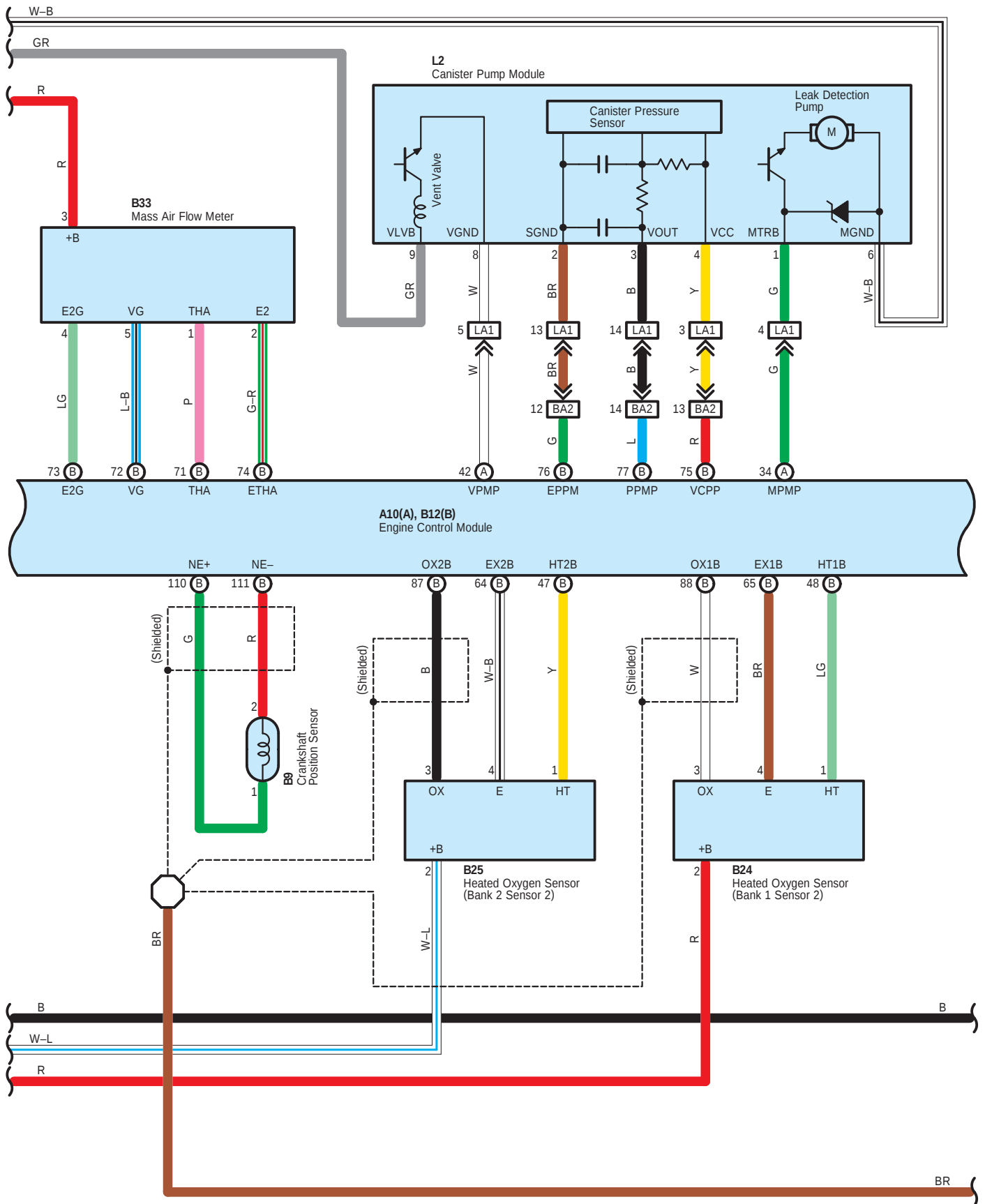
Code	See Page	Joining Wire Harness and Wire Harness (Connector Location)
BA3	68	Engine Wire and Engine Room Main Wire (Inside of the Engine Room R/B and Engine Room J/B)
EA1	69	Instrument Panel Wire and Engine Room Main Wire (Left Kick Panel)

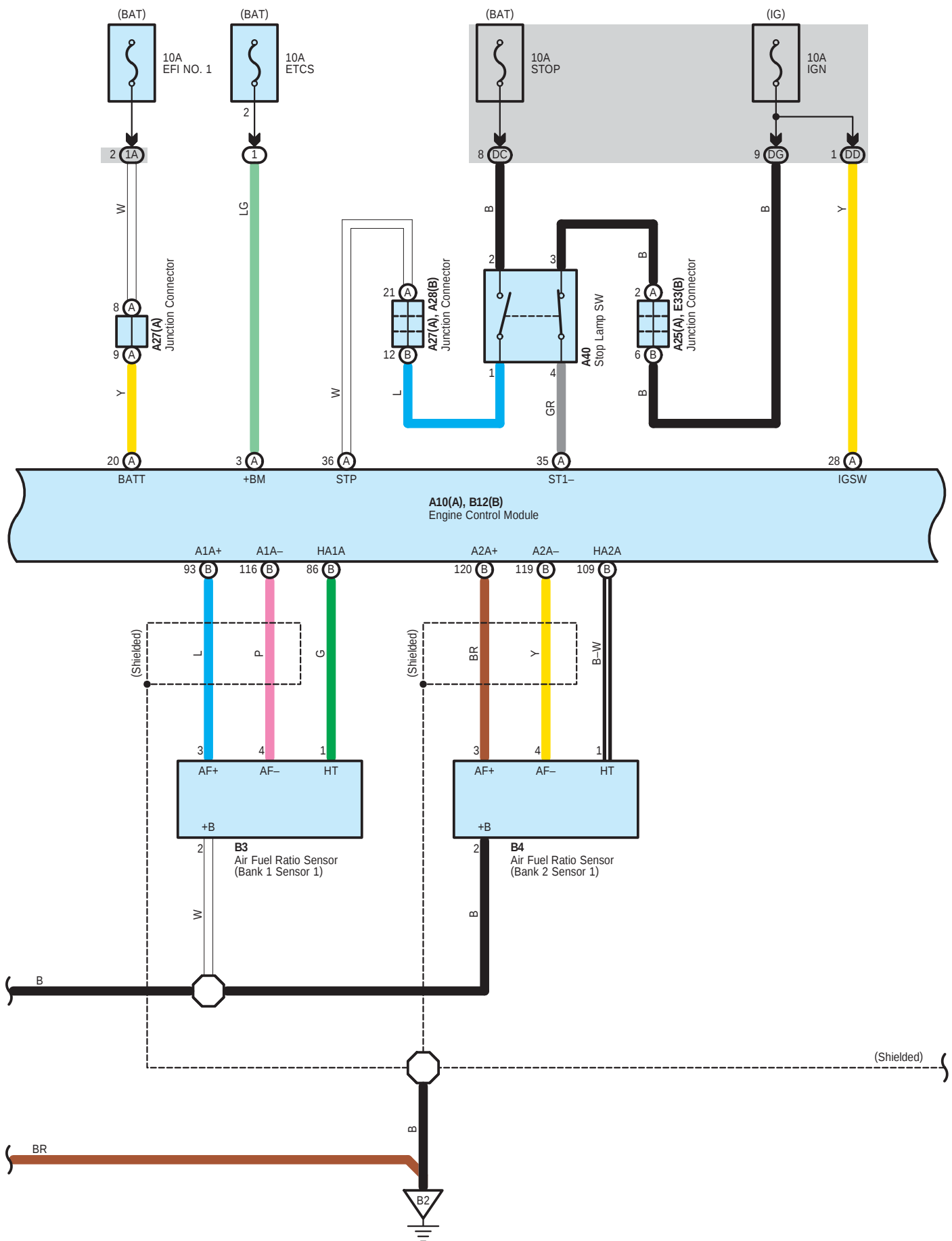
: Ground Points

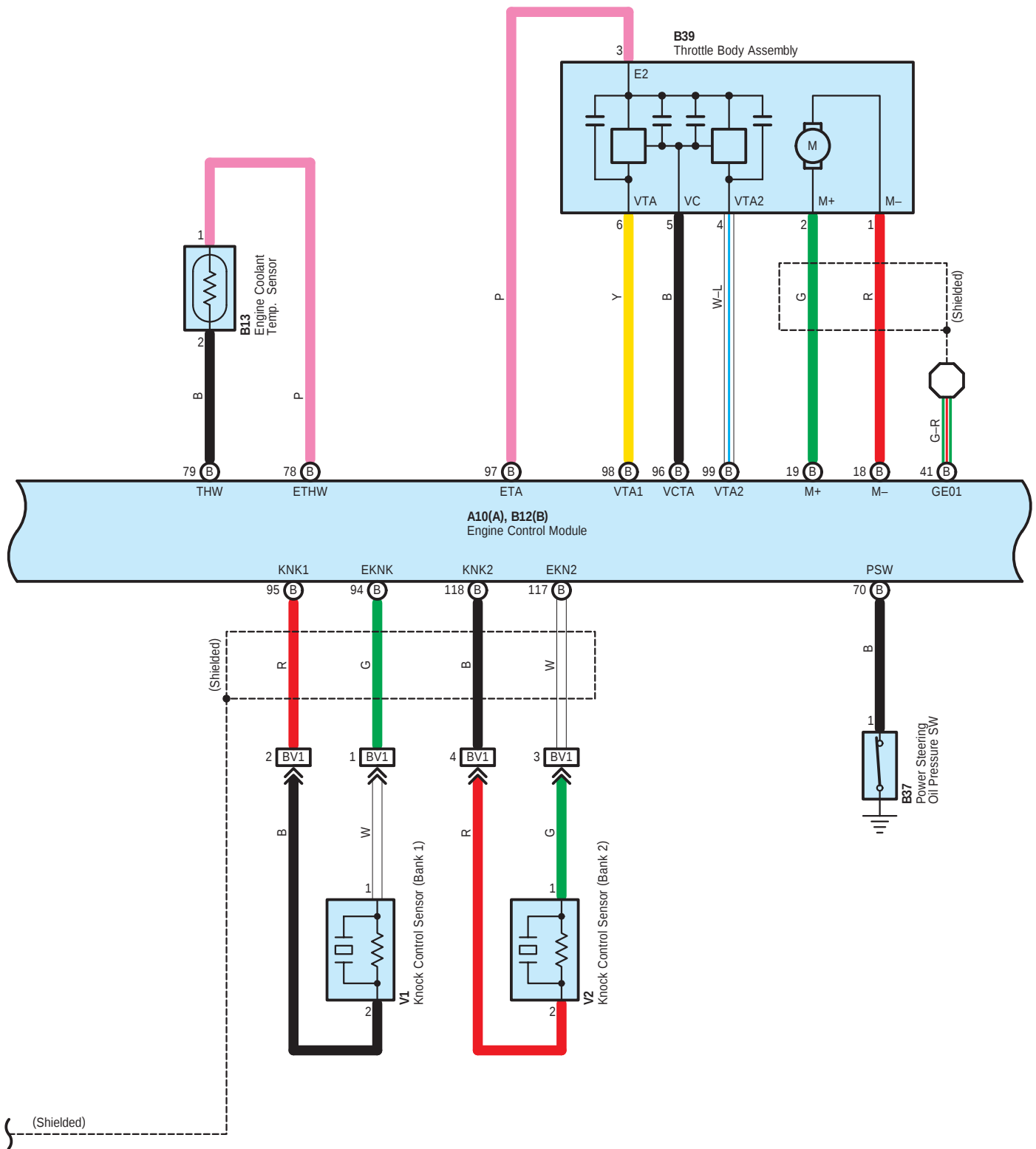
Code	See Page	Ground Points Location
A2	68	Front Left Fender Apron
B3	68	Right Side of the Cylinder Block

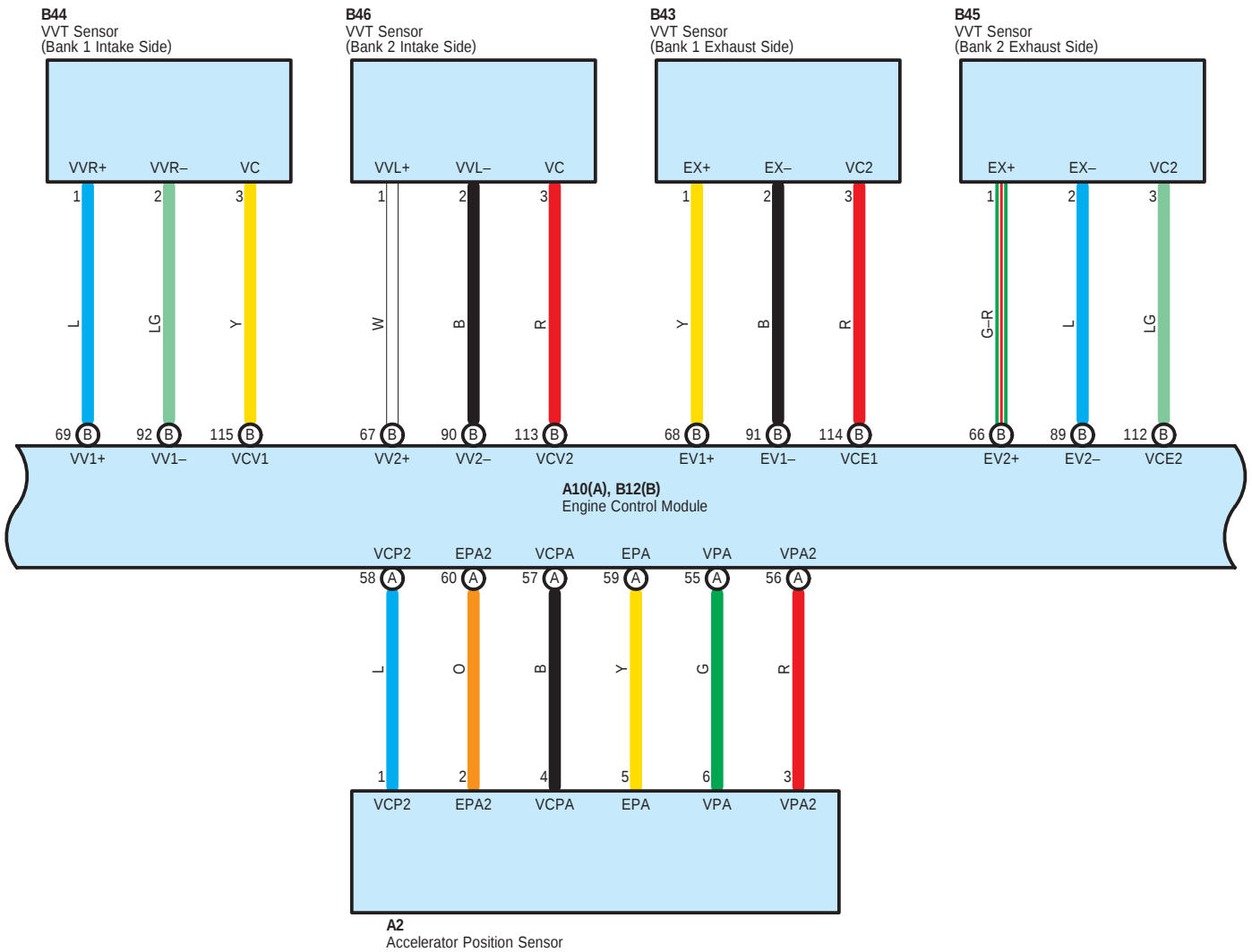


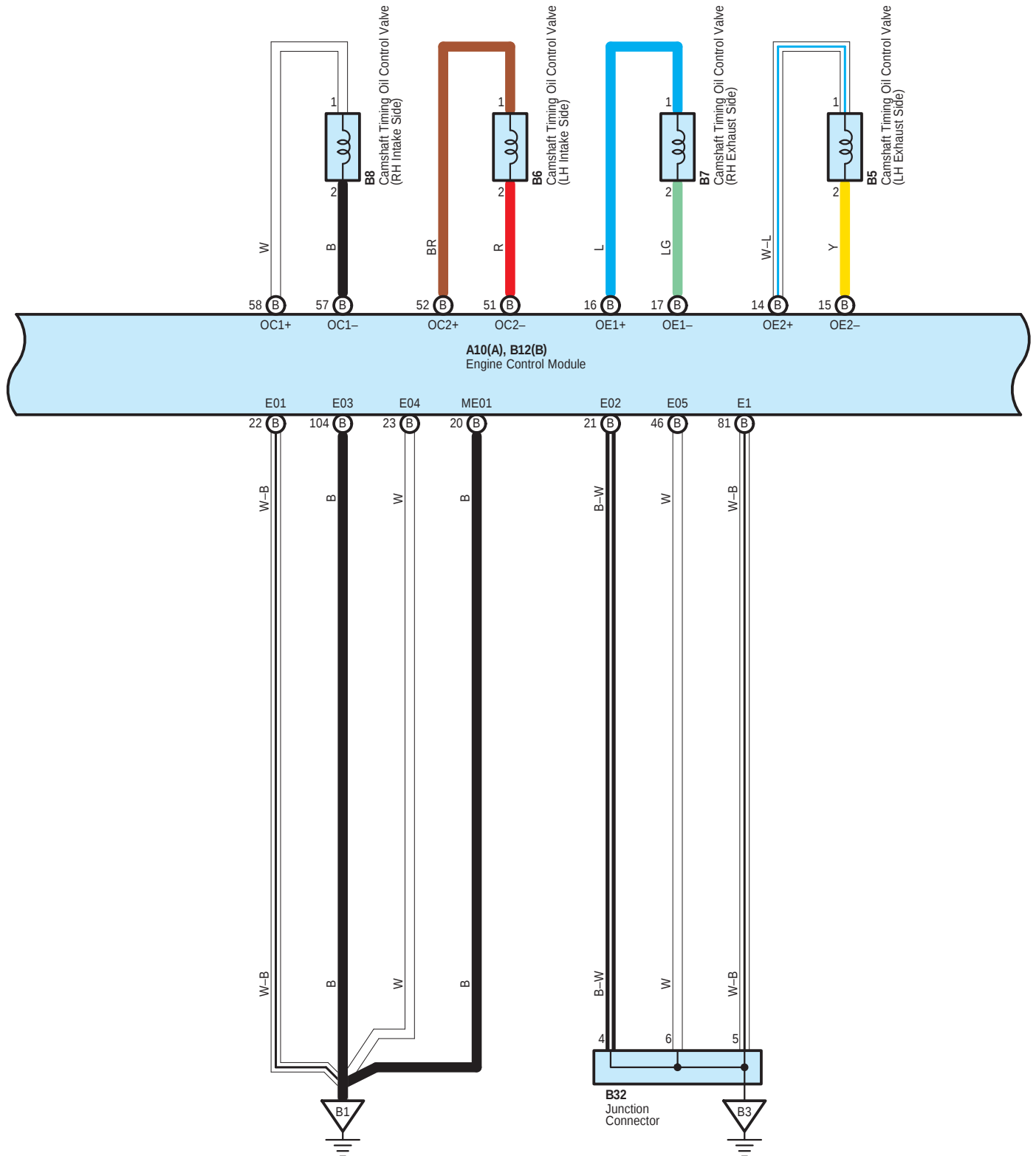


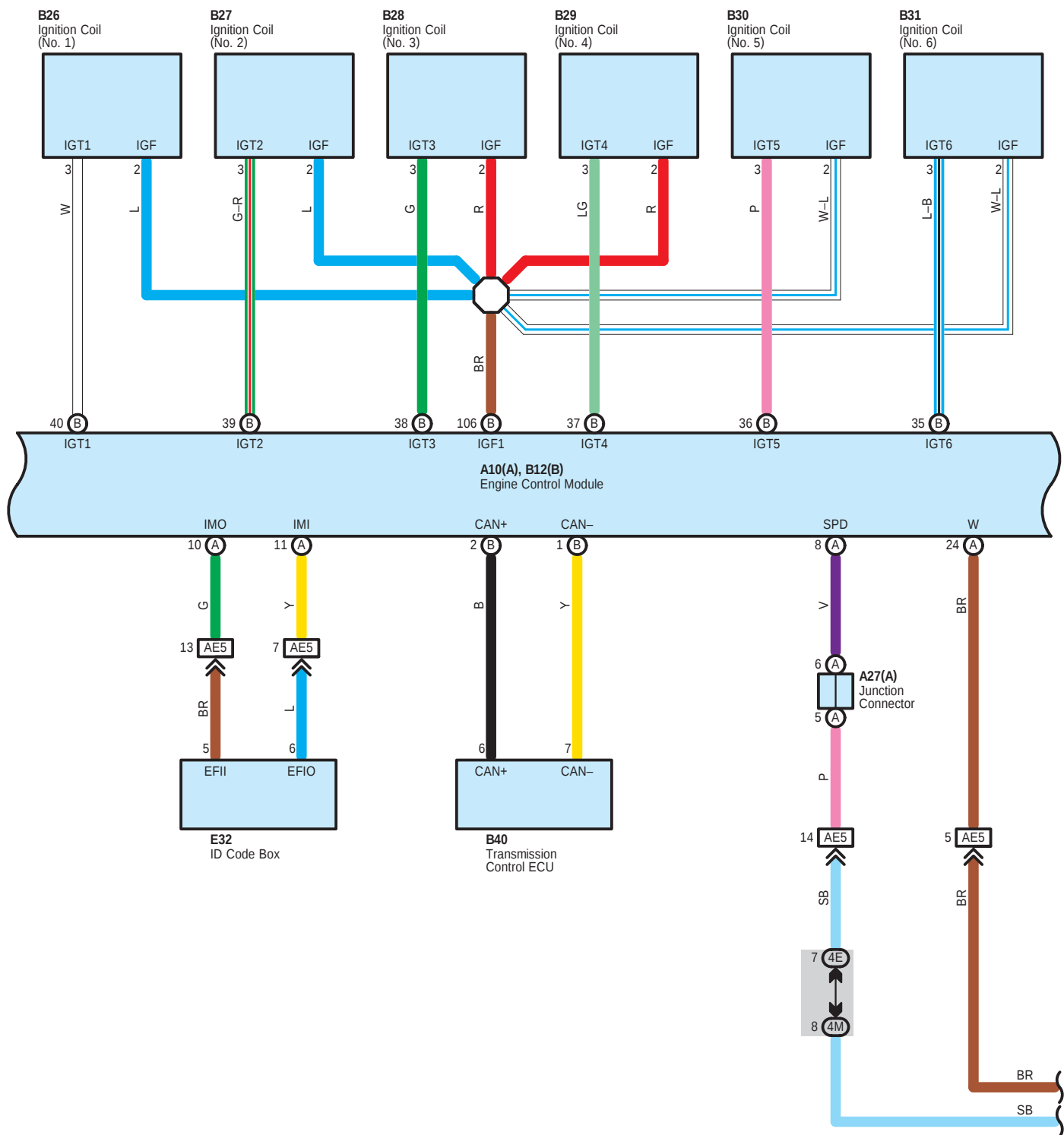




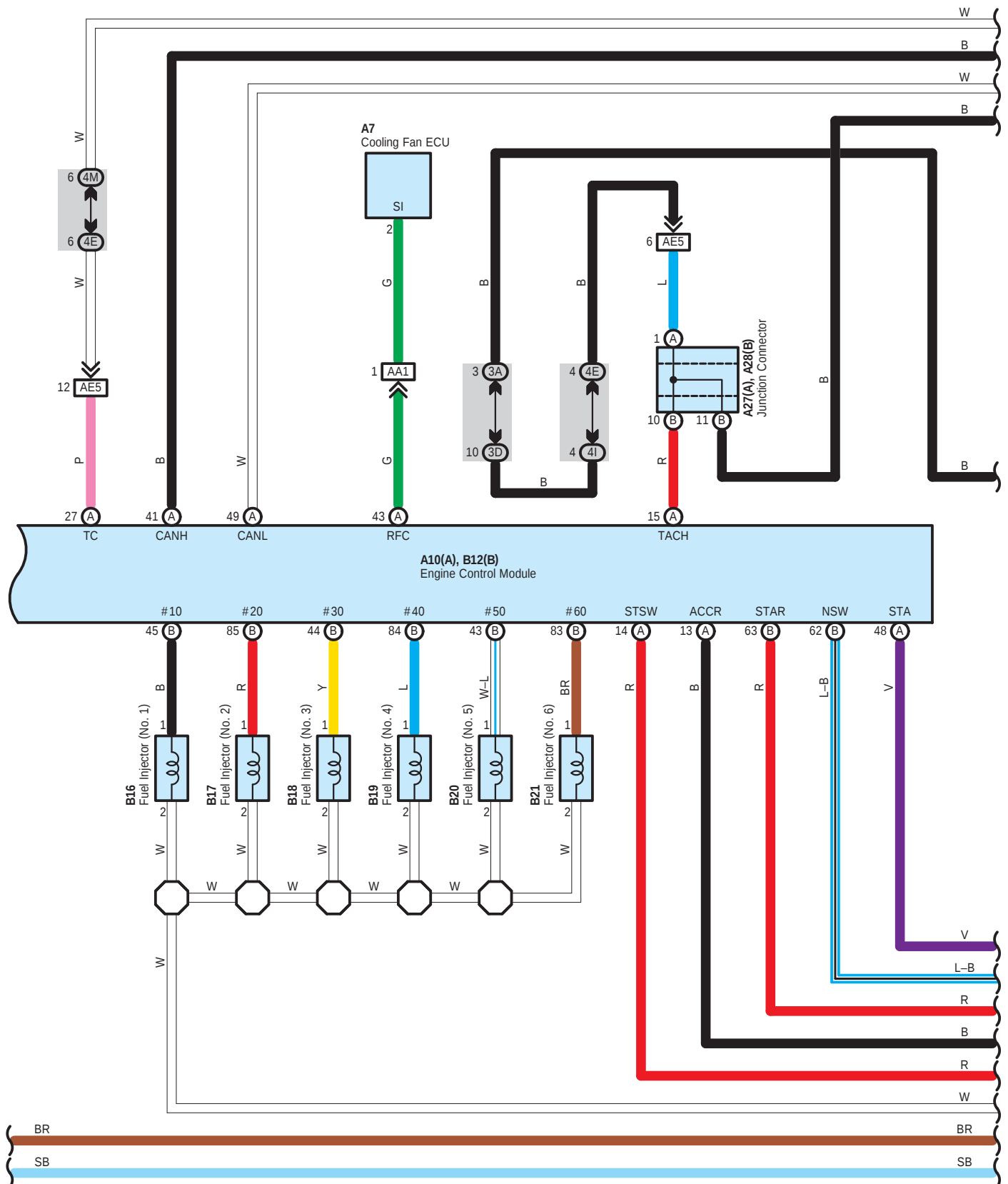


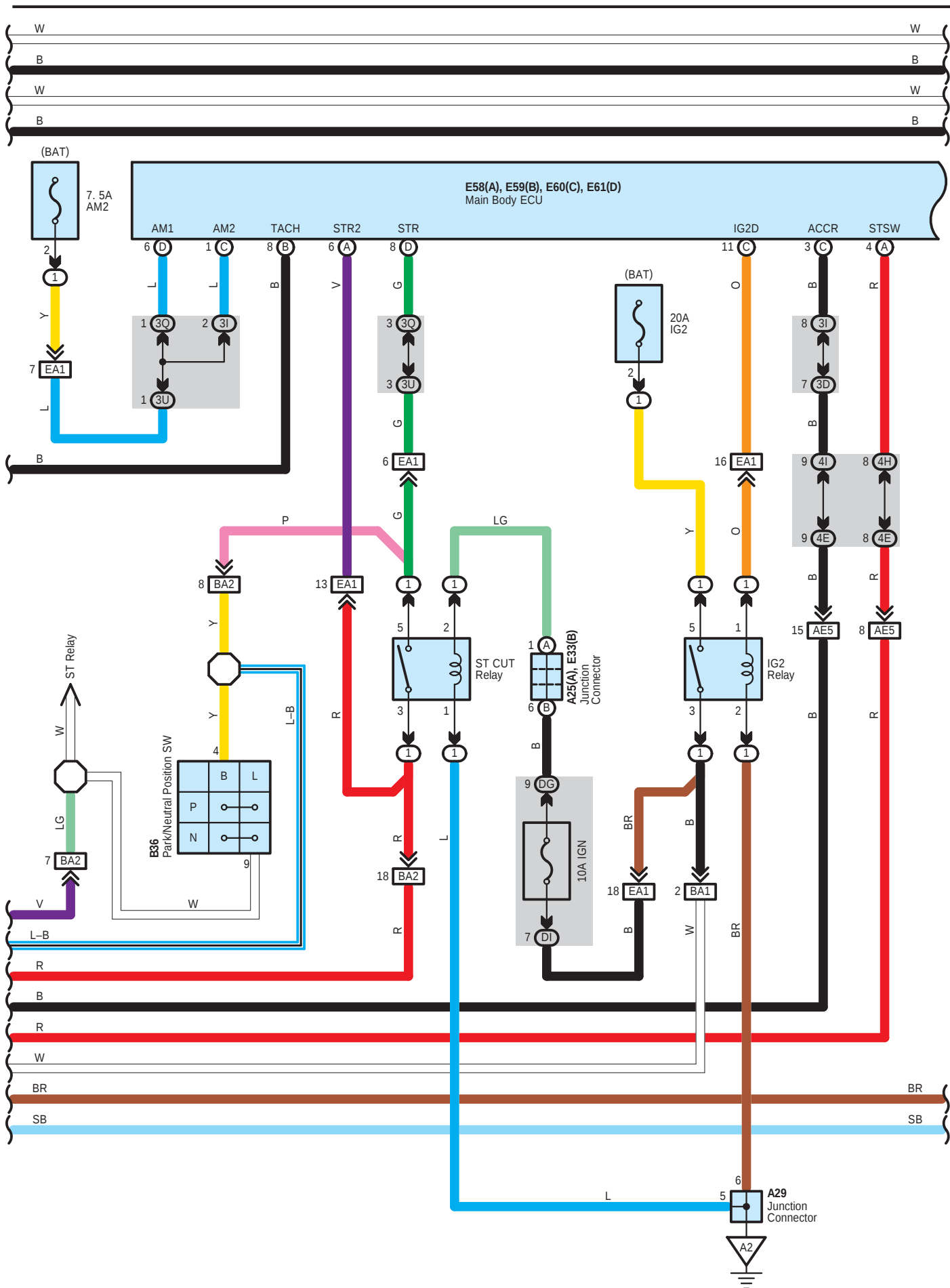




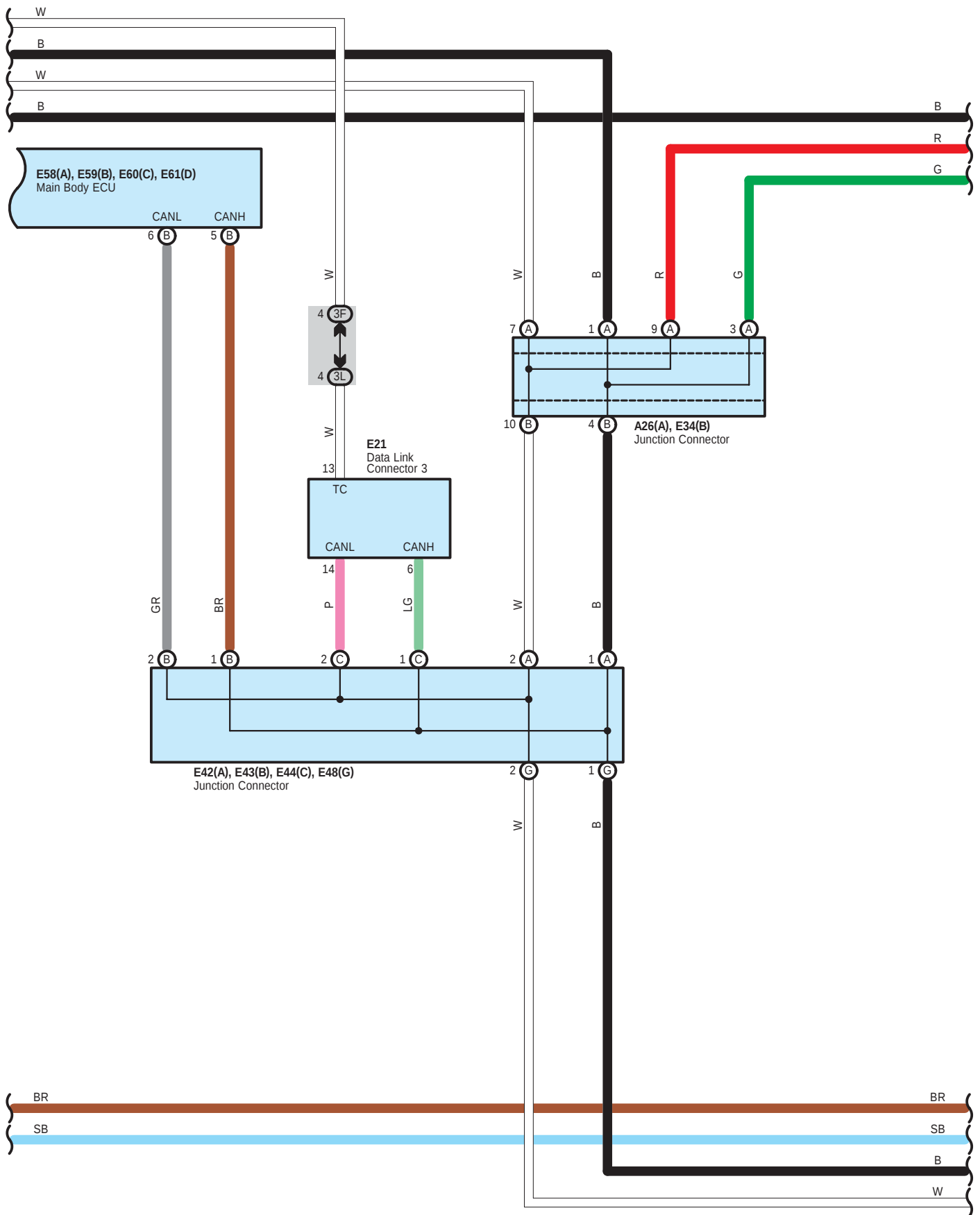


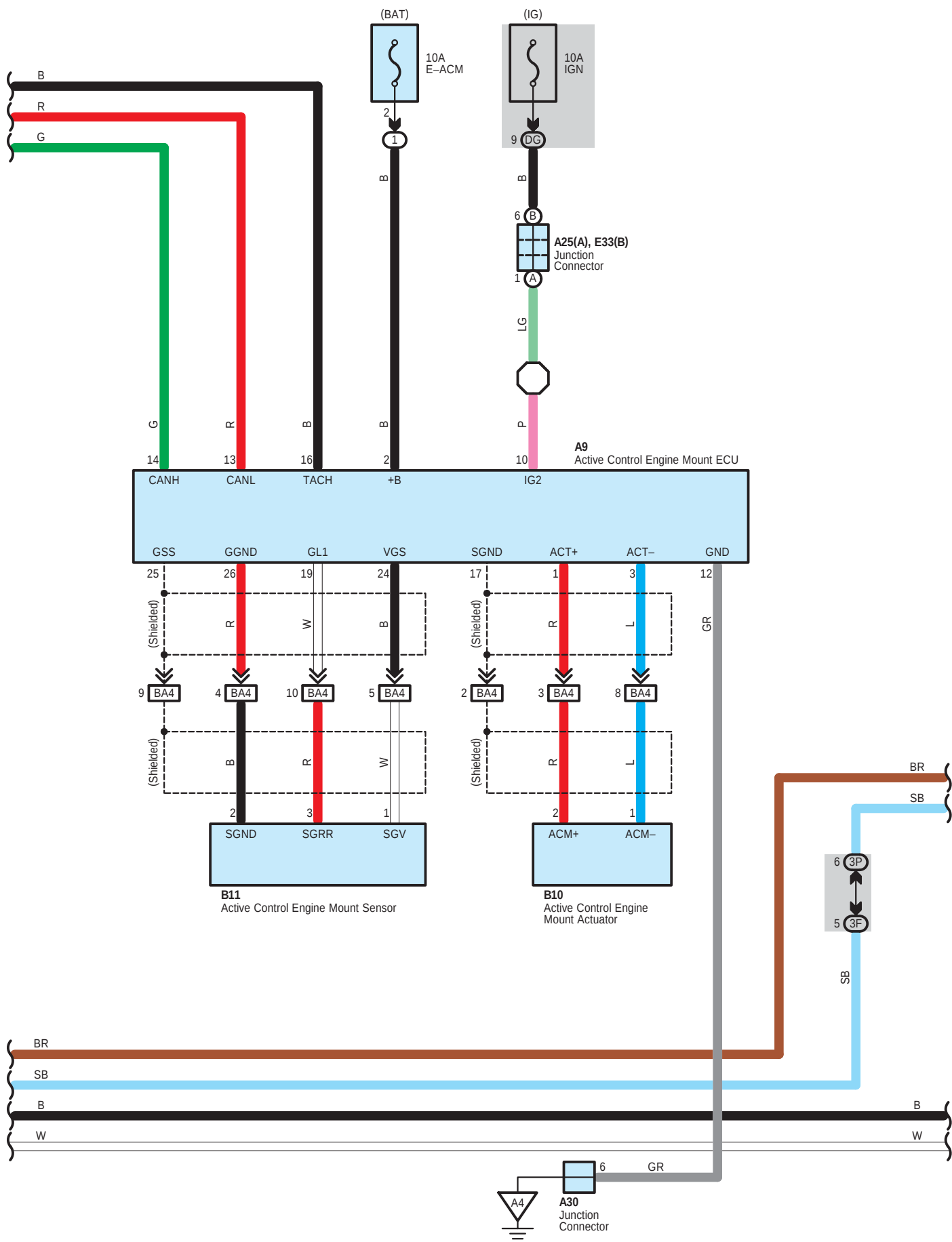
Engine Control

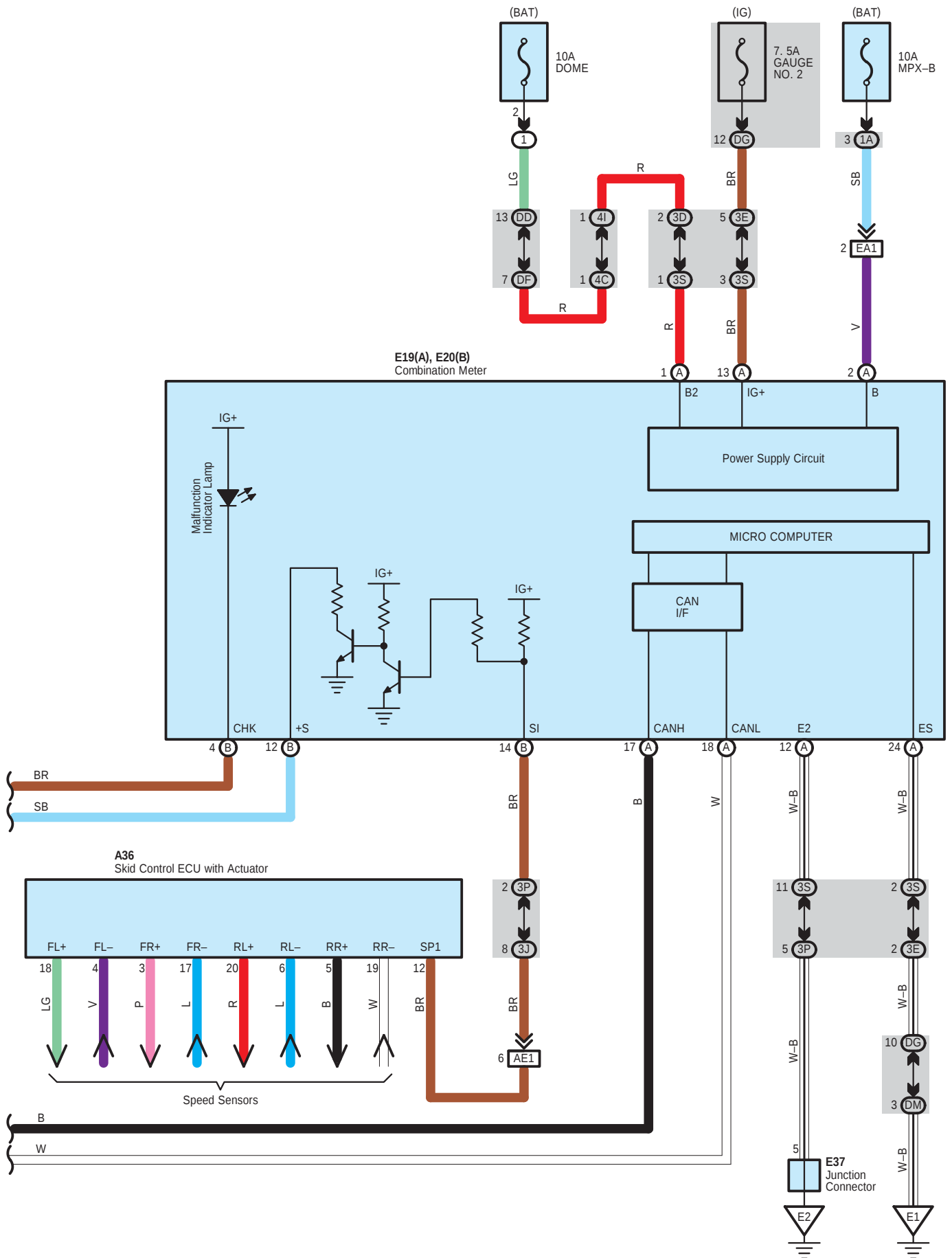




Engine Control







System Outline

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

1. Input Signals

- (1) Engine coolant temp. signal circuit
The engine coolant 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. is input into TERMINAL THW of the engine control module as a control signal.
- (2) Intake air temp. signal circuit
The intake air temp. sensor is installed in the mass air flow meter and detects the intake air temp., which is input as a control signal to TERMINAL THA of the engine control module.
- (3) Oxygen sensor signal circuit
The oxygen density in the exhaust emission is detected and is input as a control signal from the heated oxygen sensors to TERMINALS OX1B and OX2B of the engine control module.
- (4) RPM signal circuit
Camshaft position is detected by the VVT sensor (Bank 1 exhaust side, bank 1 intake side, bank 2 exhaust side and bank 2 intake side), and their signals are input to TERMINALS EV1+, EV2+, VV1+ and VV2+ of the engine control module as control signals. Also, the engine RPM is detected by the crankshaft position sensor installed in the cylinder block and the signal is input into TERMINAL NE+ of the engine control module as a control signal.
- (5) Throttle position sensor signal circuit
The throttle position sensor detects the throttle valve opening angle as a control signal, which is input into TERMINALS VTA1 and VTA2 of the engine control module.
- (6) Vehicle speed circuit
The vehicle speed sensor detects the vehicle speed, and the signal is input into TERMINAL SPD of the engine control module via the combination meter, from TERMINAL SP1 of the skid control ECU with actuator.
- (7) Battery signal circuit
Voltage is constantly applied to TERMINAL BATT of the engine control module. When the power SW is pushed on, the voltage for engine control module start-up power supply is applied to TERMINAL +B and +B2 of engine control module via EFI relay.
- (8) Intake air volume signal circuit
The intake air volume is detected by the mass air flow meter, and is input as a control signal to TERMINAL VG of the engine control module.
- (9) Stop lamp SW signal circuit
The stop lamp SW is used to detect whether the vehicle is braking or not, and the signal is input into TERMINAL STP of the engine control module as a control signal.
- (10) Starter signal circuit
To confirm whether the engine is cranking, the voltage applied to the starter motor when the engine is cranking is detected, and is input into TERMINAL STA of the engine control module as a control signal.
- (11) Engine knock signal circuit
Engine knocking is detected by the knock control sensors, and is input into TERMINALS KNK1 and KNK2 of the engine control module as a control signal.
- (12) Air fuel ratio signal circuit
The air fuel ratio is detected and input as a control signal into TERMINALS A1A+, A2A+ of the engine control module.

2. Control System

* SFI system

The SFI system monitors the engine condition through the signals input from each sensors to the engine control module. The control signal is sent to the engine control module TERMINALS #10, #20, #30, #40, #50 and #60 to operate the injector (Fuel injection). The SFI system controls the fuel injection by the engine control module in response to the driving conditions.

* ESA system

The ESA system monitors the engine condition through the signals input from each sensors to the engine control module. The best ignition timing is decided according to this data and the data memorized in the engine control module. The control signal is output to TERMINALS IGT1, IGT2, IGT3, IGT4, IGT5 and IGT6, and these signals control the igniter to provide the best ignition timing.

* 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 emission is low), and warms up the heated oxygen sensors to improve their detection performance. The engine control module evaluates the signals from each sensors, and outputs current to TERMINALS HT1B or HT2B to control the heater.

* Air fuel ratio sensor heater control system

The air fuel ratio sensor heater control system turns the heater on when the intake air volume is low (Temp. of exhaust emission is low), and warms up the air fuel ratio sensor to improve detection performance of the sensor.

The engine control module evaluates the signals from each sensor, current is output to TERMINALS HA1A and HA2A, controlling the heater.

* ACIS

The ACIS includes a valve in the bulkhead separating the surge tank into two parts. This valve is opened and closed in accordance with the driving conditions to control the intake manifold length in two stages, for increased engine output in all ranges from low to high speeds.

* ETCS-i

The ETCS-i controls the engine output at its optimal level in accordance with the opening of the accelerator pedal, under all driving conditions.

* Dual VVT-i

Dual VVT-i controls the intake and exhaust valve timing to the most appropriate levels in accordance with the engine conditions.

3. Diagnosis System

When there is a malfunction in the engine control module signal system, the malfunctioning system is recorded in the memory. The malfunctioning system can be found by reading the code displayed on the malfunction indicator lamp.

4. Fail-Safe System

When a malfunction has occurred in any system, there is a possibility of causing engine trouble due to continued control based on that system. In that case, the fail-safe system either controls the system using the data (Standard values) recorded in the engine control module memory, or else stops the engine.

 : Parts Location

Code		See Page	Code	See Page	Code	See Page
A2		60	B13	56	B43	57
A7		54	B16	56	B44	57
A9		60	B17	56	B45	57
A10	A	54	B18	56	B46	57
A25	A	60	B19	56	E19	A 58
A26	A	60	B20	56	E20	B 58
A27	A	60	B21	57	E21	58
A28	B	60	B24	57	E32	58
A29		54	B25	57	E33	B 58
A30		54	B26	57	E34	B 58
A36		55	B27	57	E37	58
A40		60	B28	57	E42	A 48, 59
A47		55	B29	57	E43	B 48, 59
B3		56	B30	57	E44	C 48, 59
B4		56	B31	57	E48	G 48, 59
B5		56	B32	57	E58	A 59
B6		56	B33	57	E59	B 59
B7		56	B36	57	E60	C 59
B8		56	B37	57	E61	D 59
B9		56	B39	57	L2	62
B10		56	B40	57	L13	62
B11		56	B41	57	V1	57
B12	B	56	B42	57	V2	57

 : Relay Blocks

Code	See Page	Relay Blocks (Relay Block Location)
1	22	Engine Room R/B (Engine Compartment Left)

Engine Control



: Junction Block and Wire Harness Connector

Code	See Page	Junction Block and Wire Harness (Connector Location)
1A	24	Engine Room Main Wire and Engine Room J/B (Engine Compartment Left)
1D		
1E		
1G	22	
3A	36	Instrument Panel Wire and J/B No.3 (Instrument Panel Left)
3D		
3E		
3F		
3I		
3J		
3L		
3P		
3Q		
3S		
3U		
4C	42	Instrument Panel Wire and J/B No.4 (Instrument Panel Right)
4E		
4H		
4I		
4M		
DC	30	Engine Room Main Wire and Instrument Panel J/B (Lower Finish Panel)
DD		
DF	30	Instrument Panel Wire and Instrument Panel J/B (Lower Finish Panel)
DG	31	
DI		
DM	30	



: Connector Joining Wire Harness and Wire Harness

Code	See Page	Joining Wire Harness and Wire Harness (Connector Location)
AA1	69	Engine Room Main Wire and Engine Room Main Wire (Cowl Side Right)
AE1	69	Engine Room Main Wire and Instrument Panel Wire (Instrument Panel Right)
AE5		
BA1	68	Engine Wire and Engine Room Main Wire (Inside of the Engine Room R/B and Engine Room J/B)
BA2		
BA3		
BA4		
BV1	68	Engine Wire and Sensor Wire (Right Side of the Cylinder Block)
EA1	69	Instrument Panel Wire and Engine Room Main Wire (Left Kick Panel)
LA1	69	Floor Wire and Engine Room Main Wire (Cowl Side Left)

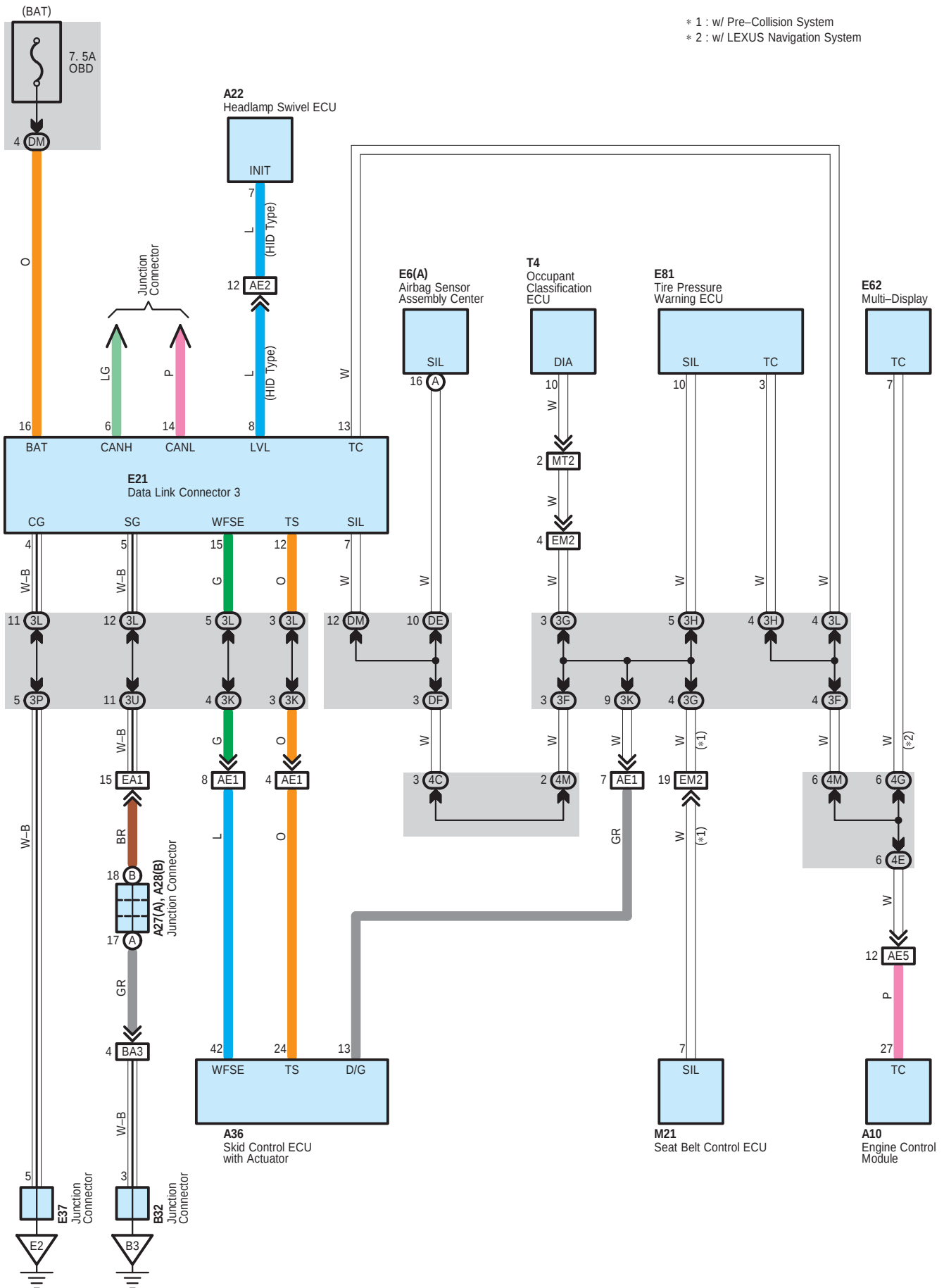


: Ground Points

Code	See Page	Ground Points Location
A1	68	Front Left Fender Apron
A2		
A4	68	Front Right Fender Apron
A5	69	Cowl Side Left
B1	68	Left Side of the Cylinder Head
B2	68	Left Side of the Cylinder Block
B3	68	Right Side of the Cylinder Block
E1	69	Left Side of the Instrument Panel Reinforcement
E2	69	Instrument Panel Brace LH
L1	70	Rear Pillar LH

Data Link Connector 3

- * 1 : w/ Pre-Collision System
- * 2 : w/ LEXUS Navigation System



 : Parts Location

Code	See Page	Code	See Page	Code	See Page
A10	54	B32	57	E81	59
A22	60	E6 A	58	M21	62
A27 A	60	E21	58	T4	66
A28 B	60	E37	58		
A36	55	E62	59		

 : Junction Block and Wire Harness Connector

Code	See Page	Junction Block and Wire Harness (Connector Location)
3F	36	Instrument Panel Wire and J/B No.3 (Instrument Panel Left)
3G		
3H		
3K		
3L		
3P		
3U	42	Instrument Panel Wire and J/B No.4 (Instrument Panel Right)
4C		
4E		
4G		
4M	30	Instrument Panel Wire and Instrument Panel J/B (Lower Finish Panel)
DE		
DF		
DM		

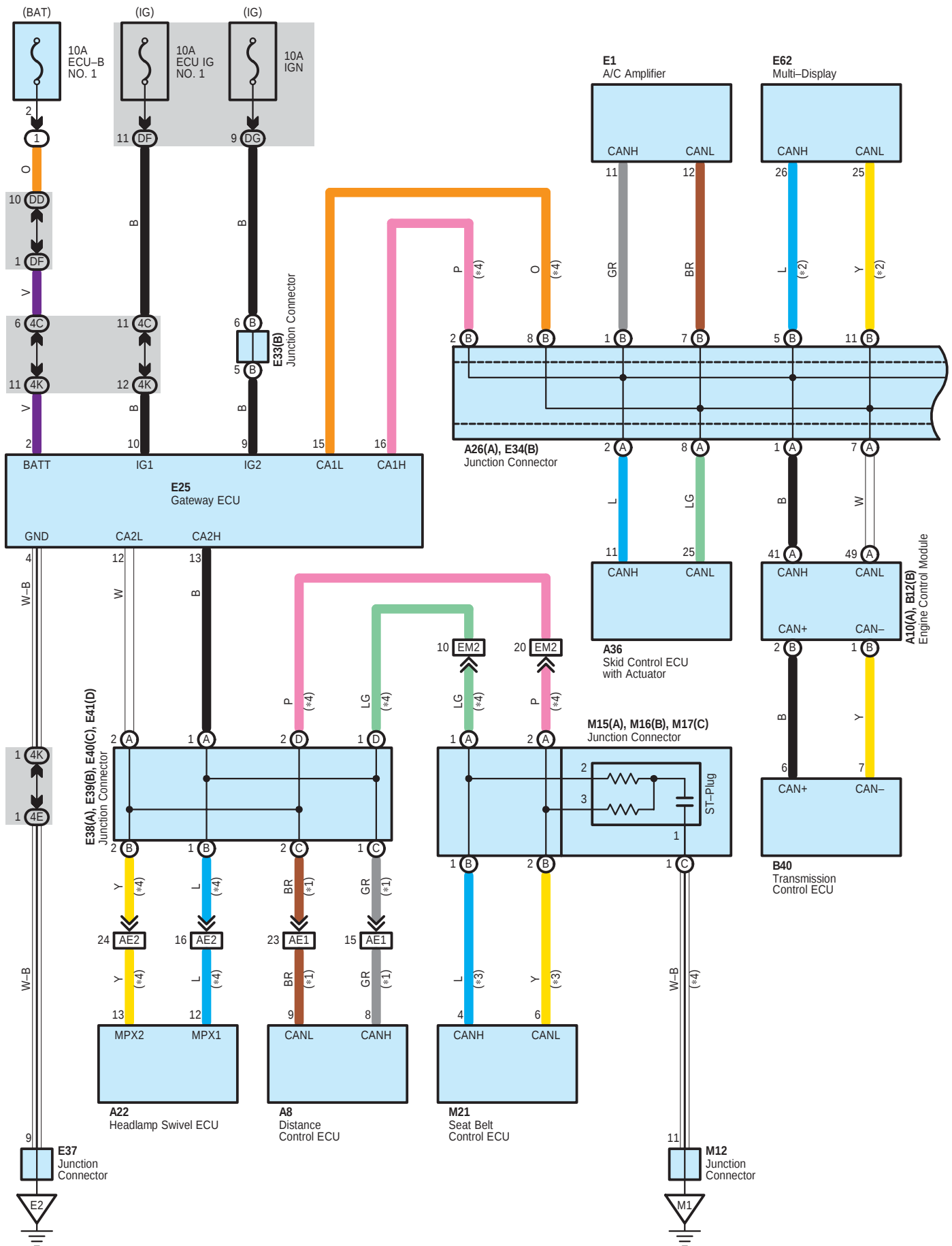
 : Connector Joining Wire Harness and Wire Harness

Code	See Page	Joining Wire Harness and Wire Harness (Connector Location)
AE1	69	Engine Room Main Wire and Instrument Panel Wire (Instrument Panel Right)
AE2	69	Engine Room Main Wire and Instrument Panel Wire (Instrument Panel Left)
AE5	69	Engine Room Main Wire and Instrument Panel Wire (Instrument Panel Right)
BA3	68	Engine Wire and Engine Room Main Wire (Inside of the Engine Room R/B and Engine Room J/B)
EA1	69	Instrument Panel Wire and Engine Room Main Wire (Left Kick Panel)
EM2	69	Instrument Panel Wire and Floor No.2 Wire (Right Kick Panel)
MT2	71	Floor No.2 Wire and Front Seat RH Wire (Under the Front RH Seat)

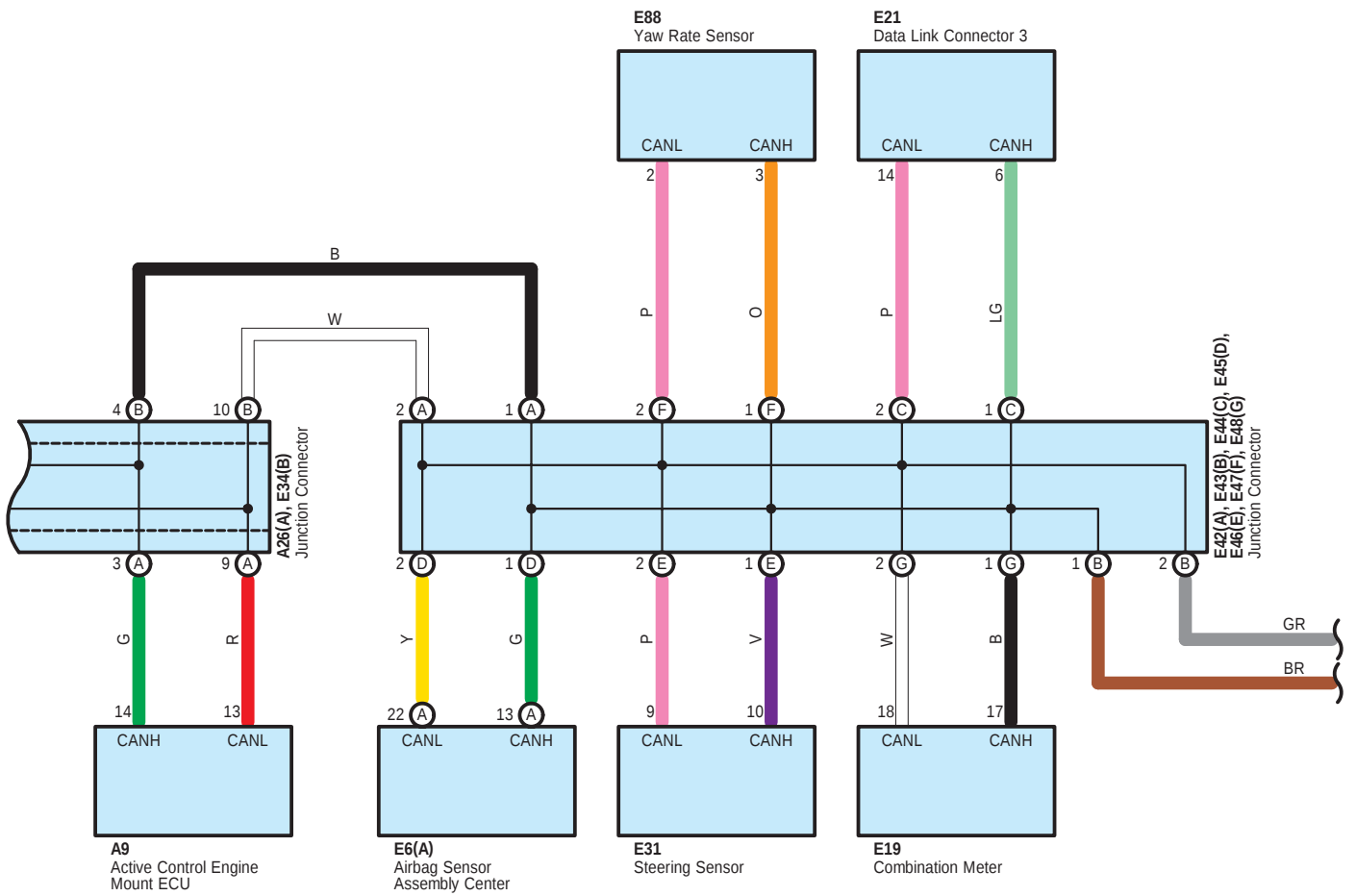
 : Ground Points

Code	See Page	Ground Points Location
B3	68	Right Side of the Cylinder Block
E2	69	Instrument Panel Brace LH

Multiplex Communication System – CAN

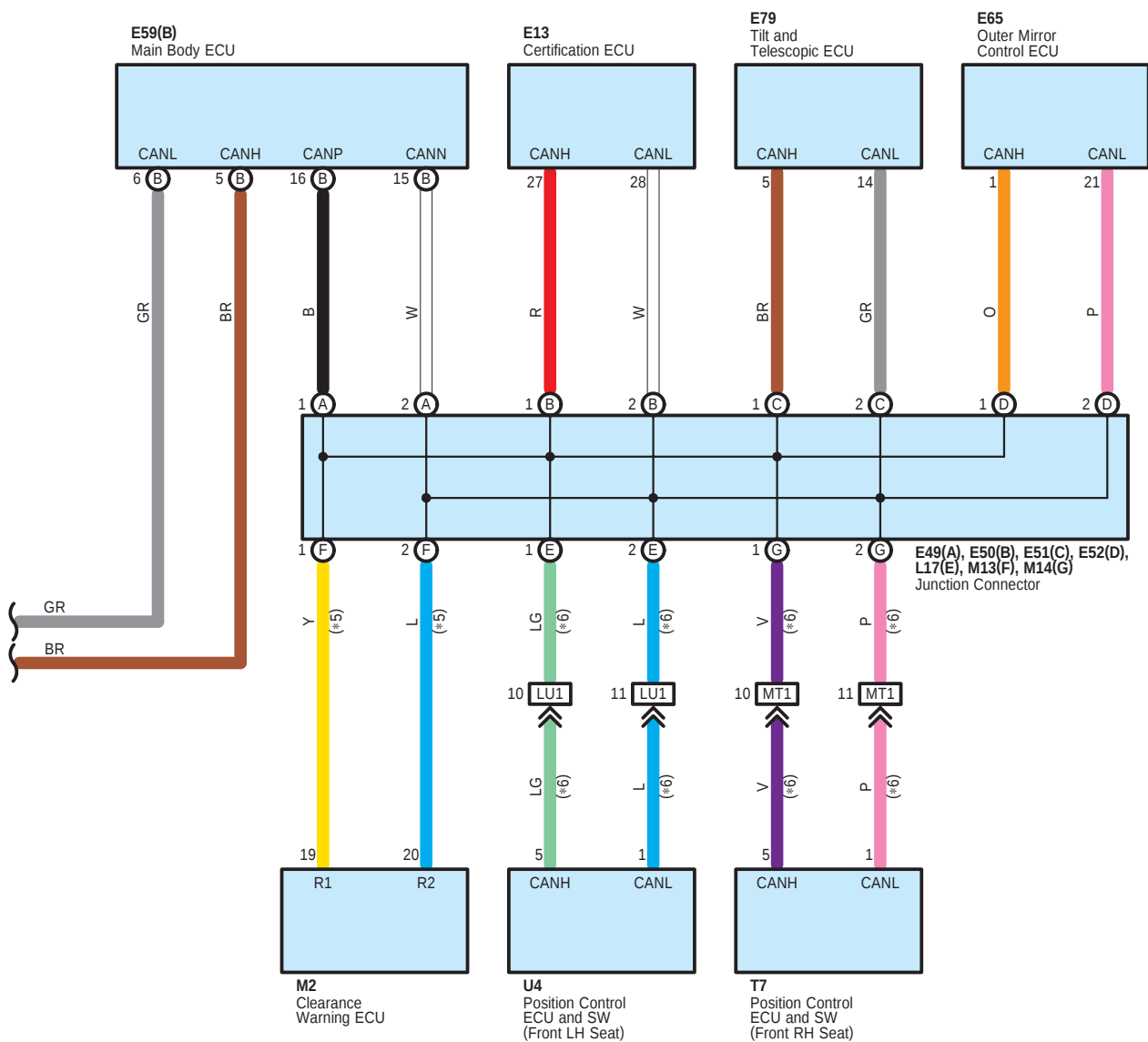


- * 1 : w/ Dynamic Radar Cruise Control
- * 2 : w/ LEXUS Navigation System
- * 3 : w/ Pre-Collision System
- * 4 : HID Type



Multiplex Communication System – CAN

* 5 : w/ Parking Assist (Intuitive Parking Assist)
 * 6 : w/ Seat Position Memory



System Outline

CAN has two lines as a pair which make communication with operating voltage. CAN has excellent data speed and error detecting capacity. It consists of vehicle control systems such as engine control module, yaw rate sensor, skid control ECU with actuator, steering sensor, data link connector 3, A/C amplifier, transmission control ECU, airbag sensor assembly center, combination meter, certification ECU, multi-display, headlamp swivel ECU, distance control ECU, seat belt control ECU, active control engine mount ECU, tilt and telescopic ECU, outer mirror control ECU, clearance warning ECU, position control ECU and SW (Front LH seat), position control ECU and SW (Front RH seat), gateway ECU and main body ECU.

○ : Parts Location

Code	See Page	Code	See Page	Code	See Page
A8	60	E37	58	E62	59
A9	60	E38	A 46, 58	E65	59
A10	A 54	E39	B 46, 58	E79	59
A22	60	E40	C 46, 58	E88	59
A26	A 60	E41	D 46, 59	L17	E 50, 61
A36	55	E42	A 48, 59	M2	62
B12	B 56	E43	B 48, 59	M12	62
B40	57	E44	C 48, 59	M13	F 50, 61
E1	58	E45	D 48, 59	M14	G 50, 61
E6	A 58	E46	E 48, 59	M15	A 52, 62
E13	58	E47	F 48, 59	M16	B 52, 62
E19	58	E48	G 48, 59	M17	C 52, 62
E21	58	E49	A 50, 59	M21	62
E25	58	E50	B 50, 59	T7	66
E31	58	E51	C 50, 59	U4	66
E33	B 58	E52	D 50, 59		
E34	B 58	E59	B 59		

○ : Relay Blocks

Code	See Page	Relay Blocks (Relay Block Location)
1	22	Engine Room R/B (Engine Compartment Left)

○ : Junction Block and Wire Harness Connector

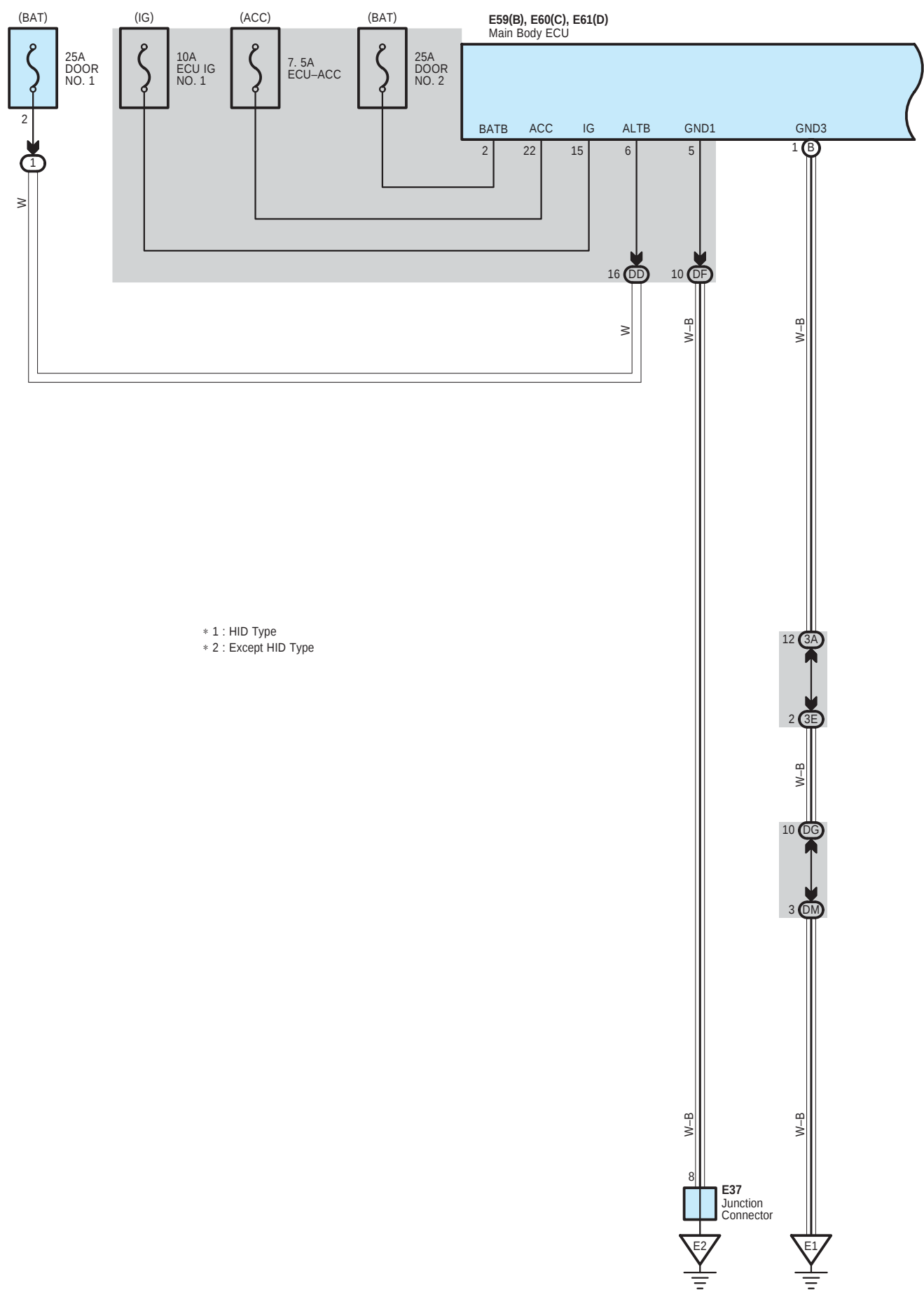
Code	See Page	Junction Block and Wire Harness (Connector Location)
4C	42	Instrument Panel Wire and J/B No.4 (Instrument Panel Right)
4E		
4K		
DD	30	Engine Room Main Wire and Instrument Panel J/B (Lower Finish Panel)
DF	30	Instrument Panel Wire and Instrument Panel J/B (Lower Finish Panel)
DG	31	

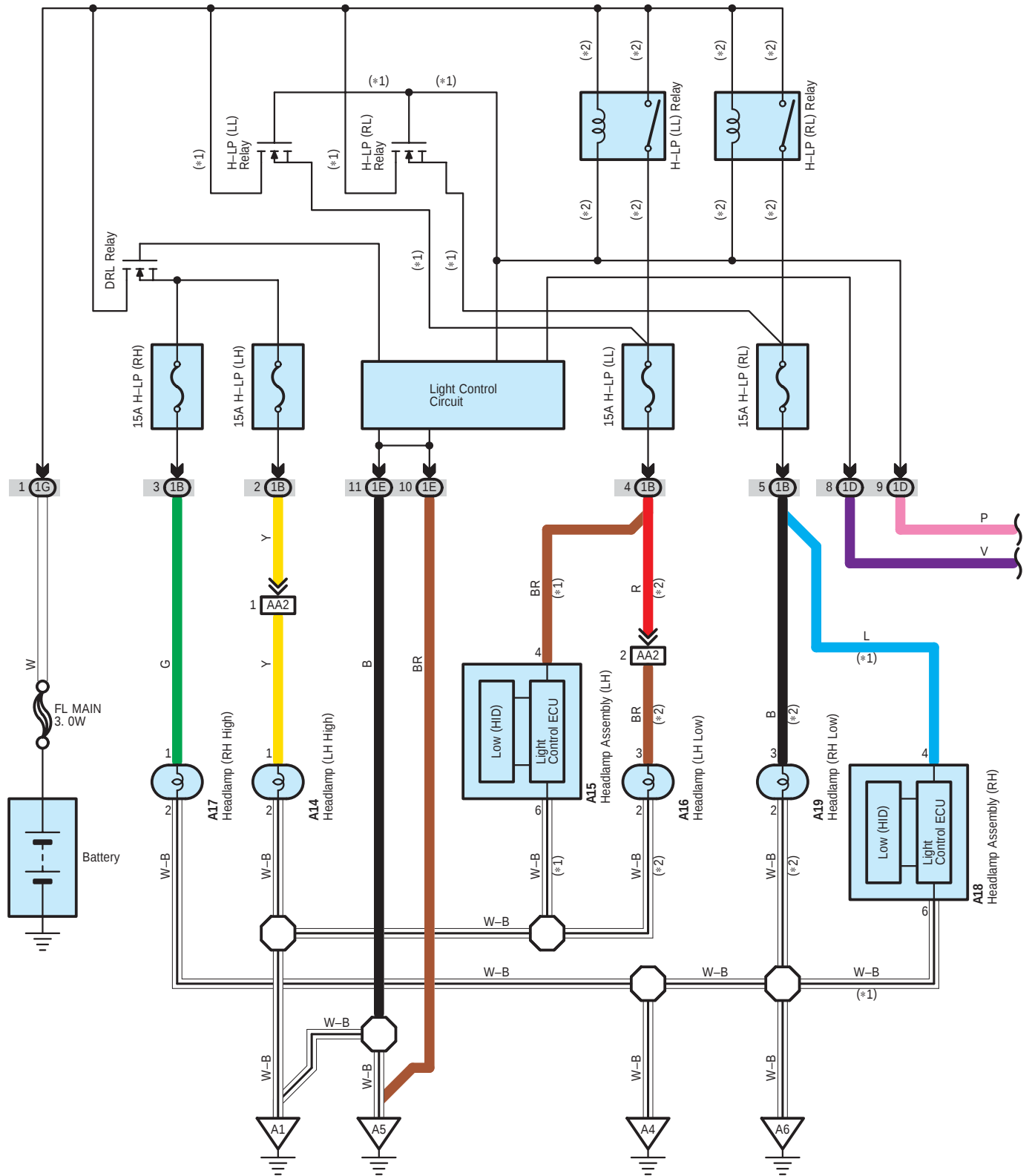
□ : Connector Joining Wire Harness and Wire Harness

Code	See Page	Joining Wire Harness and Wire Harness (Connector Location)
AE1	69	Engine Room Main Wire and Instrument Panel Wire (Instrument Panel Right)
AE2	69	Engine Room Main Wire and Instrument Panel Wire (Instrument Panel Left)
EM2	69	Instrument Panel Wire and Floor No.2 Wire (Right Kick Panel)
LU1	71	Floor Wire and Front Seat LH Wire (Under the Front LH Seat)
MT1	71	Floor No.2 Wire and Front Seat RH Wire (Under the Front RH Seat)

▽ : Ground Points

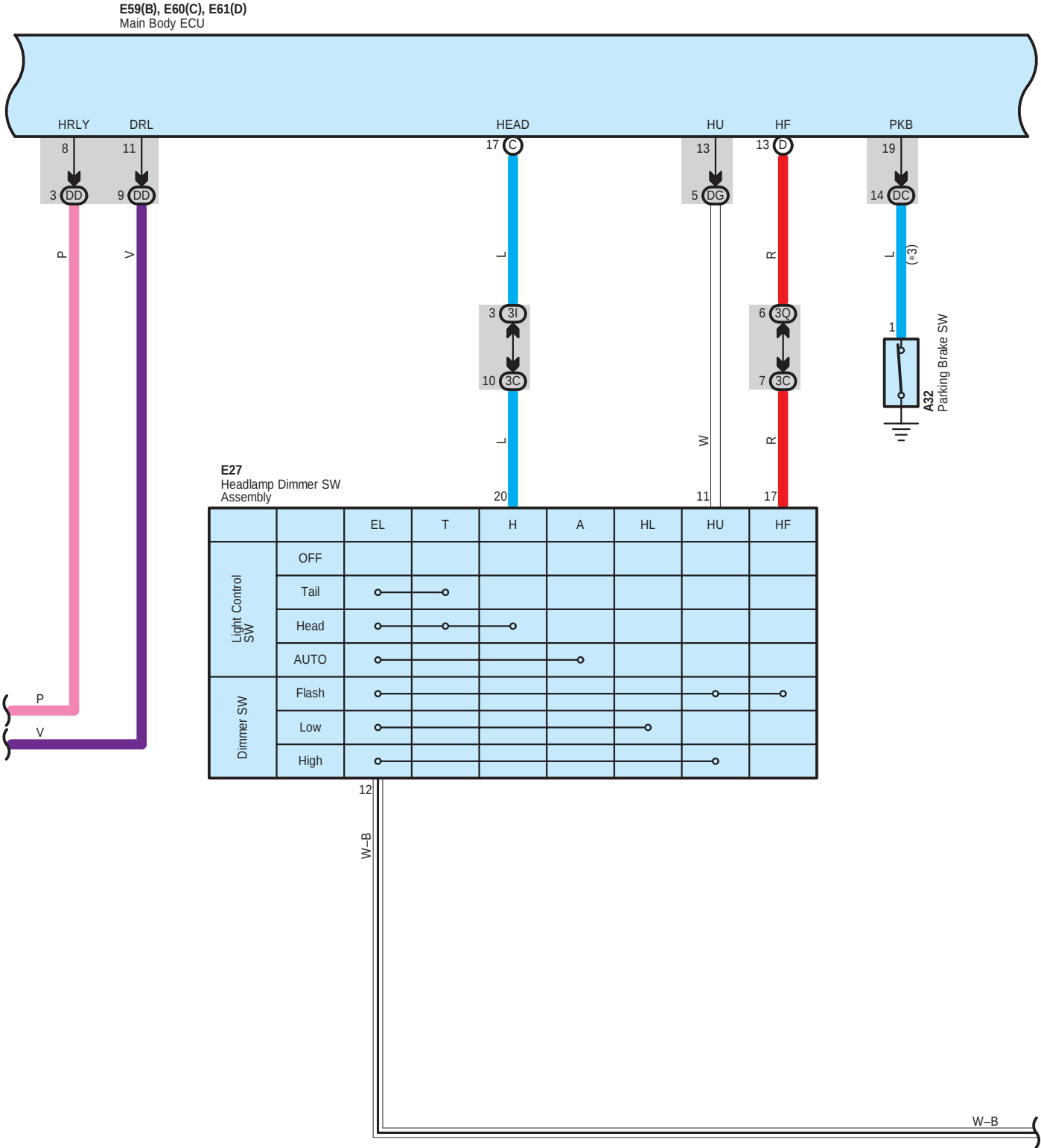
Code	See Page	Ground Points Location
E2	69	Instrument Panel Brace LH
M1	70	Roof Side Rear Inner Panel RH

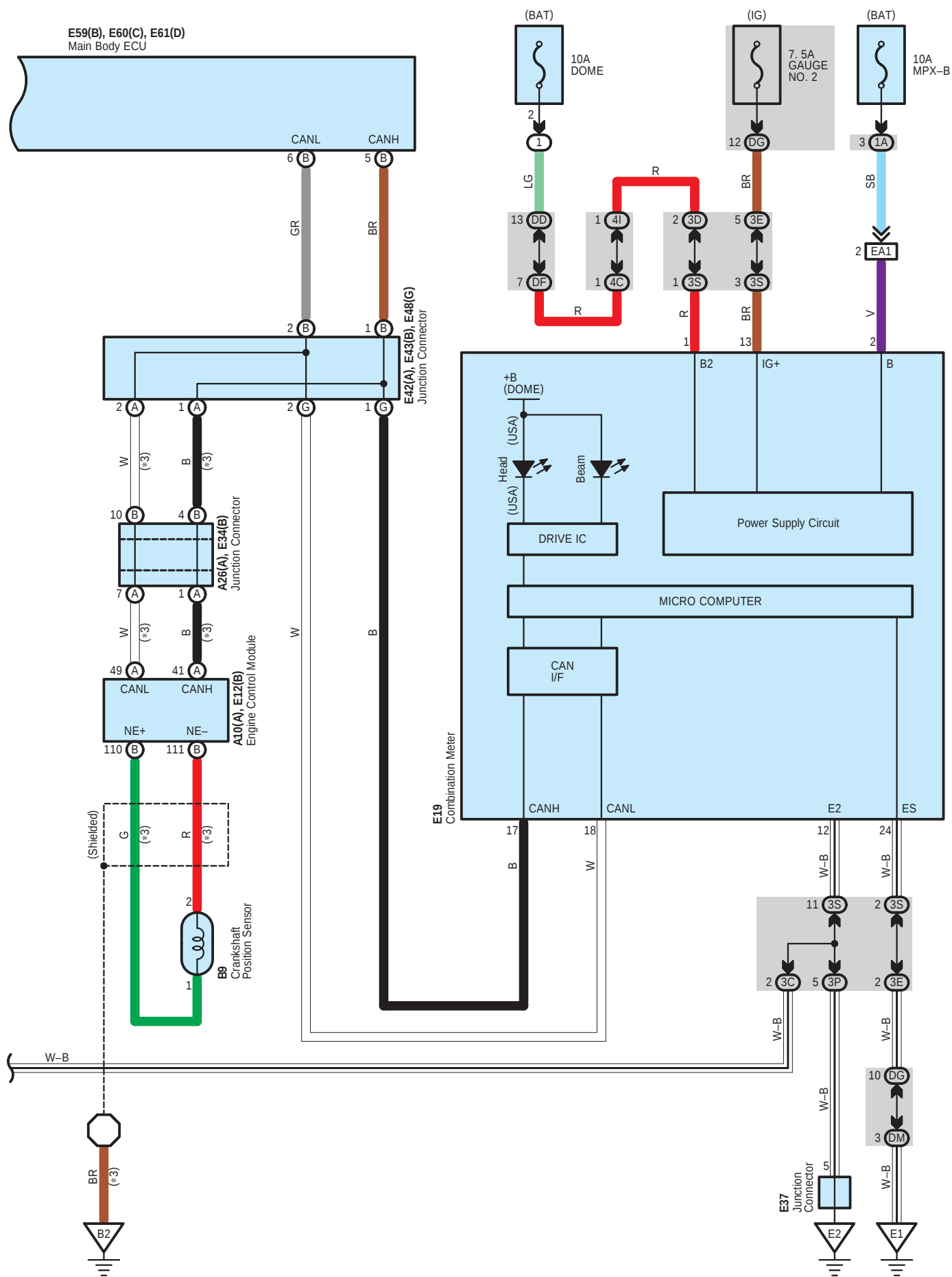




Headlight

* 3 : w/ Daytime Running Light





Headlight

: Parts Location

Code		See Page	Code		See Page	Code		See Page
A10	A	54	A26	A	60	E37		58
A14		54	A32		60	E42	A	48, 59
A15		54	B9		56	E43	B	48, 59
A16		54	E12	B	58	E48	G	48, 59
A17		54	E19		58	E59	B	59
A18		54	E27		58	E60	C	59
A19		54	E34	B	58	E61	D	59

: Relay Blocks

Code	See Page	Relay Blocks (Relay Block Location)
1	22	Engine Room R/B (Engine Compartment Left)

: Junction Block and Wire Harness Connector

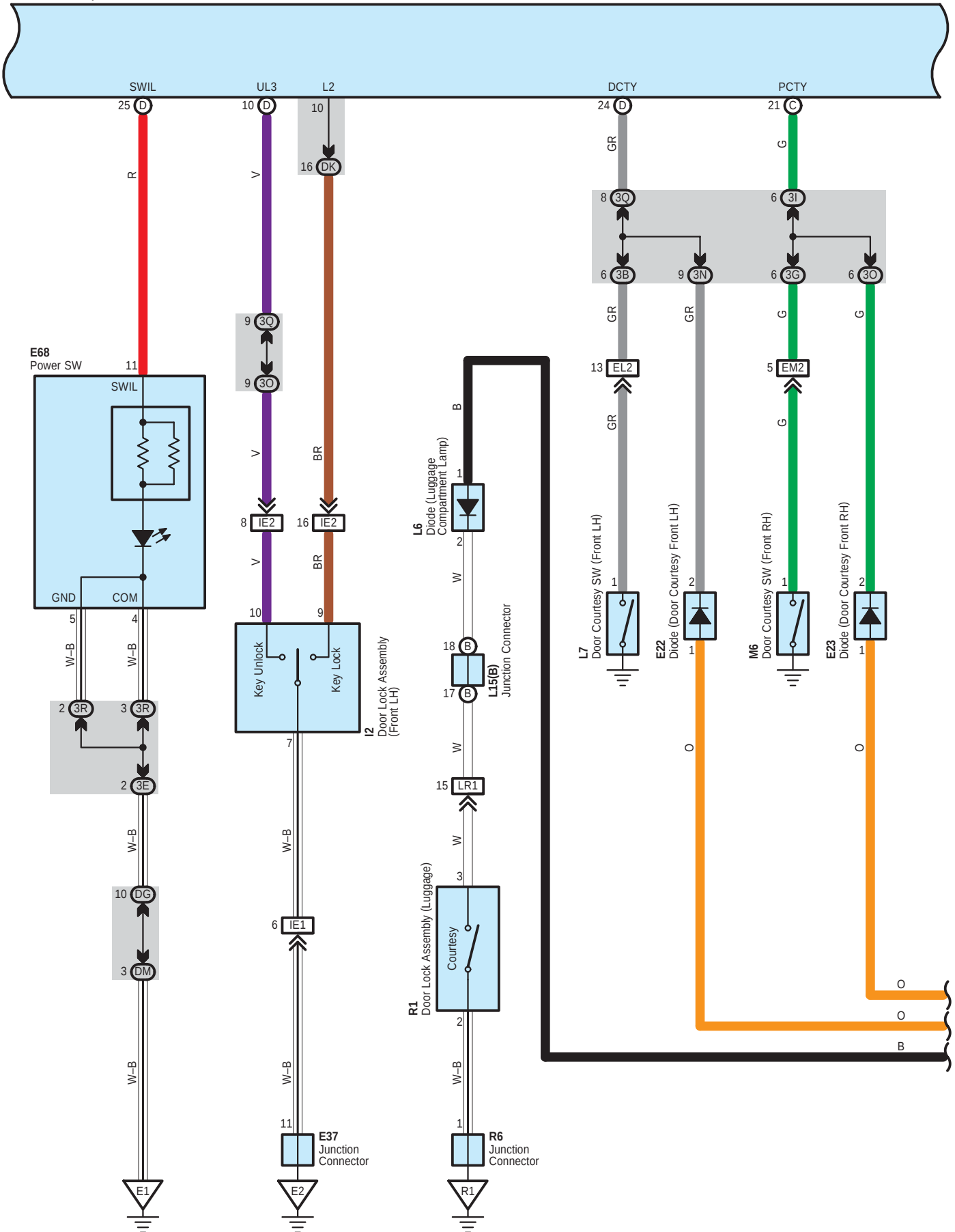
Code	See Page	Junction Block and Wire Harness (Connector Location)
1A	24	Engine Room Main Wire and Engine Room J/B (Engine Compartment Left)
1B		
1D		
1E		
1G	22	
3A	36	Instrument Panel Wire and J/B No.3 (Instrument Panel Left)
3C		
3D		
3E		
3I		
3P		
3Q		
3S		
4C	42	Instrument Panel Wire and J/B No.4 (Instrument Panel Right)
4I		
DC	30	Engine Room Main Wire and Instrument Panel J/B (Lower Finish Panel)
DD		
DF	30	Instrument Panel Wire and Instrument Panel J/B (Lower Finish Panel)
DG	31	
DM	30	

: Connector Joining Wire Harness and Wire Harness

Code	See Page	Joining Wire Harness and Wire Harness (Connector Location)
AA2	68	Engine Room Main Wire and Engine Room Main Wire (Near the Front Left Suspension Tower)
EA1	69	Instrument Panel Wire and Engine Room Main Wire (Left Kick Panel)

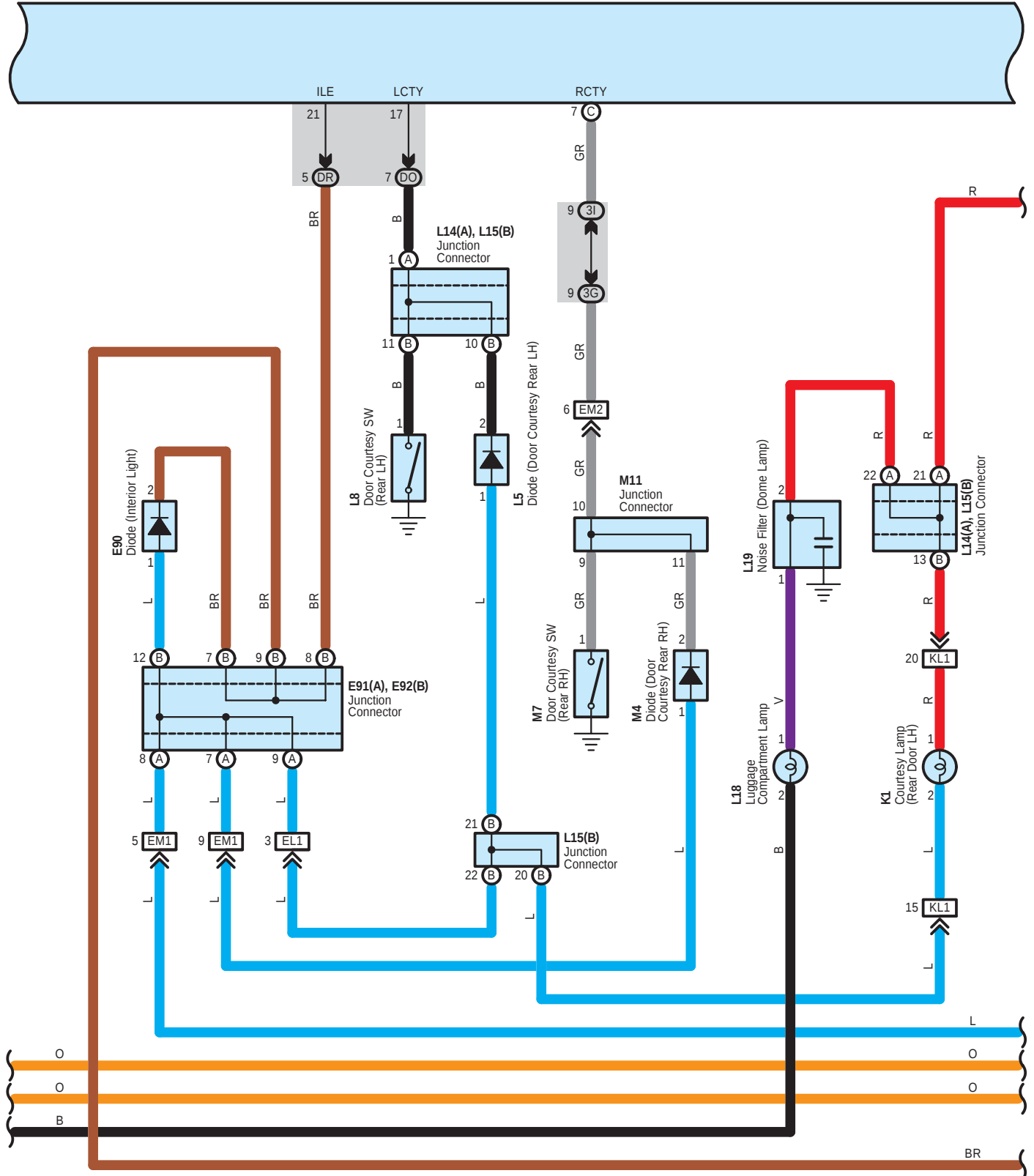
: Ground Points

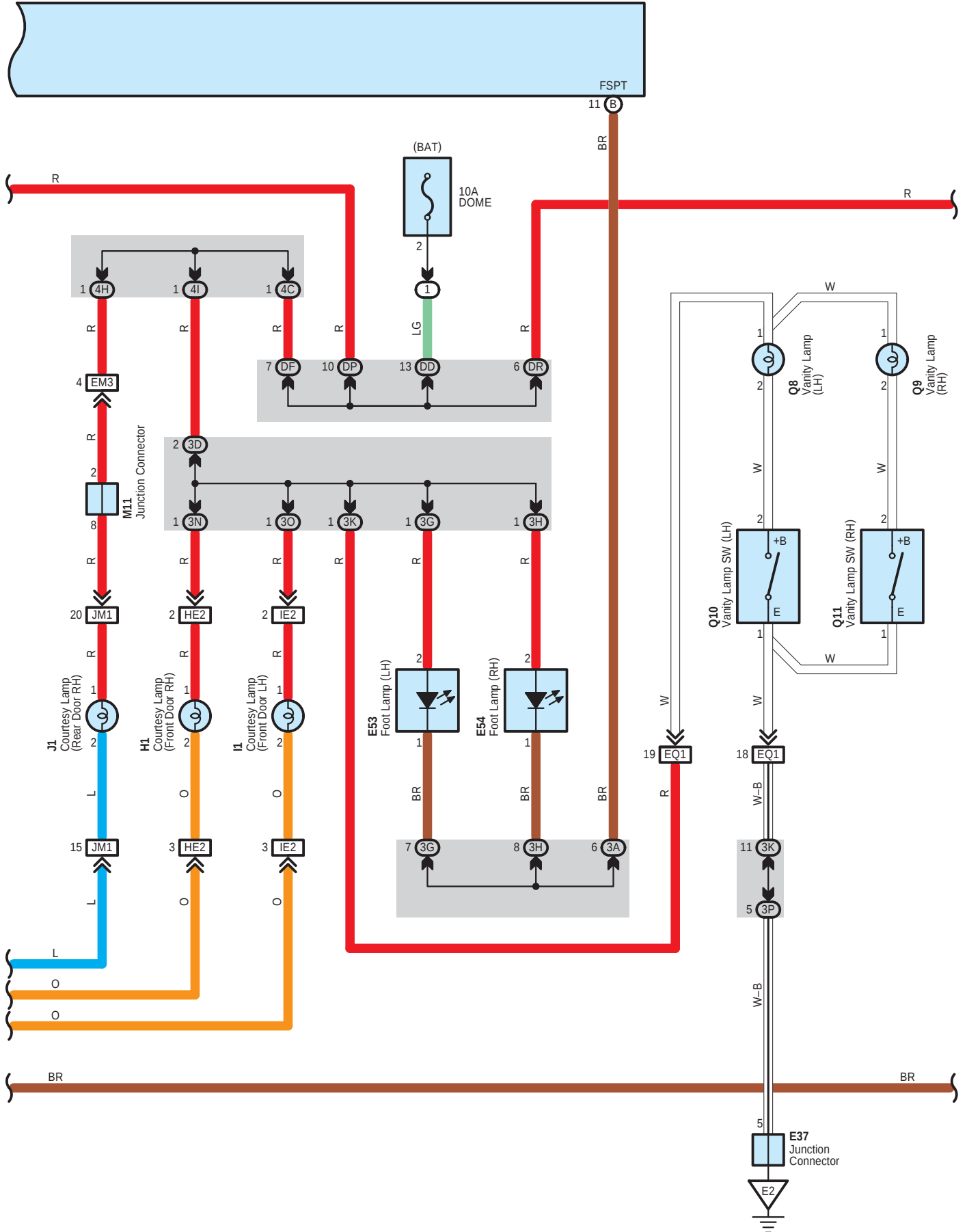
Code	See Page	Ground Points Location
A1	68	Front Left Fender Apron
A4	68	Front Right Fender Apron
A5	69	Cowl Side Left
A6	69	Cowl Side Right
B2	68	Left Side of the Cylinder Block
E1	69	Left Side of the Instrument Panel Reinforcement
E2	69	Instrument Panel Brace LH

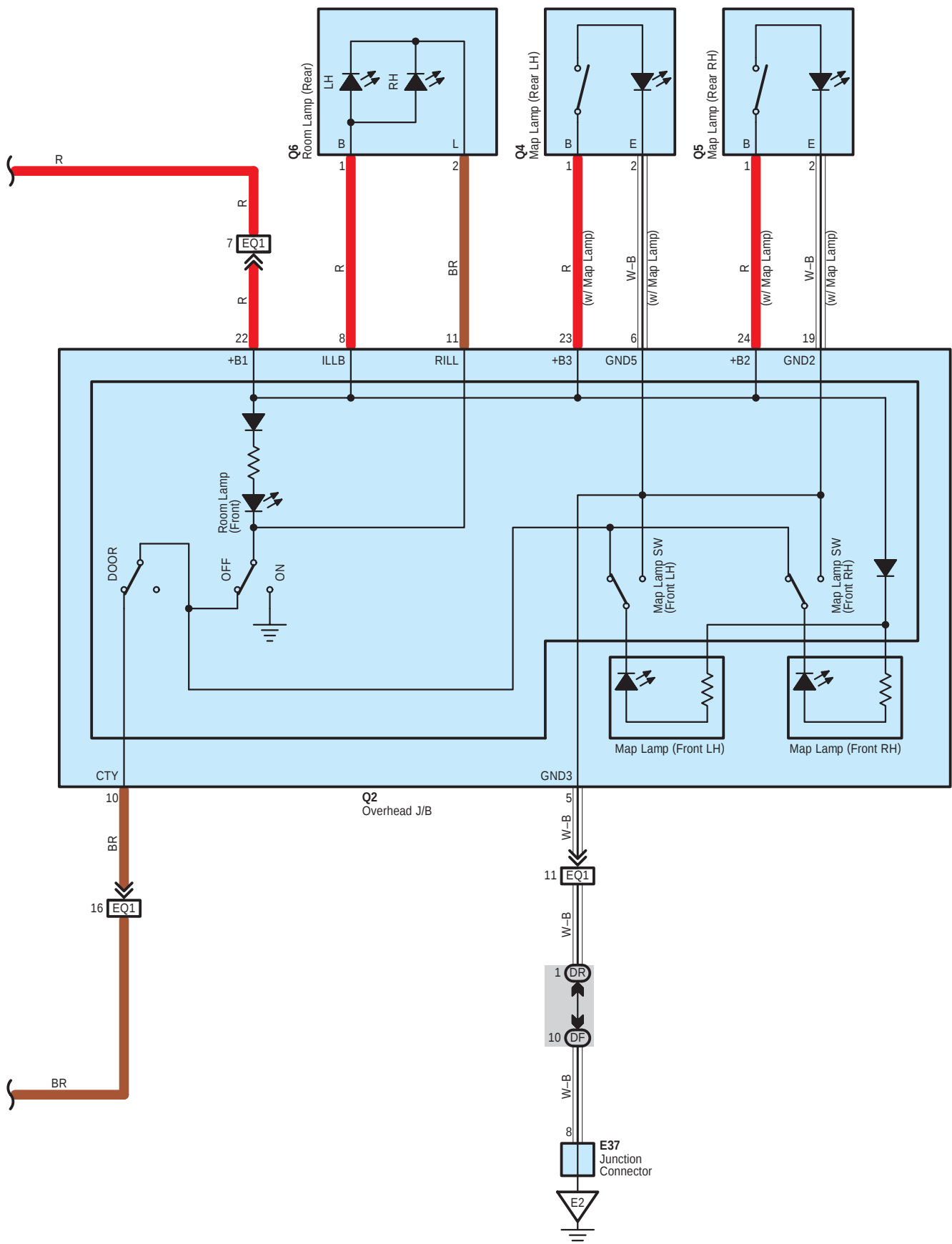


Interior Light

E59(B), E60(C), E61(D)
Main Body ECU







 : Parts Location

Code	See Page	Code	See Page	Code	See Page
E13	58	E92 B	59	M4	62
E22	58	H1	63	M6	62
E23	58	H4	63	M7	62
E37	58	I1	63	M11	62
E49 A	50, 59	I2	63	Q2	64
E50 B	50, 59	I3	63	Q4	64
E52 D	50, 59	J1	63	Q5	64
E53	59	K1	63	Q6	64
E54	59	L5	62	Q8	64
E59 B	59	L6	62	Q9	64
E60 C	59	L7	62	Q10	64
E61 D	59	L8	62	Q11	64
E65	59	L14 A	62	R1	65
E68	59	L15 B	62	R6	65
E90	59	L18	62		
E91 A	59	L19	62		

 : Relay Blocks

Code	See Page	Relay Blocks (Relay Block Location)
1	22	Engine Room R/B (Engine Compartment Left)

 : Junction Block and Wire Harness Connector

Code	See Page	Junction Block and Wire Harness (Connector Location)
3A	36	Instrument Panel Wire and J/B No.3 (Instrument Panel Left)
3B		
3D		
3E		
3G		
3H		
3I		
3K		
3N		
3O		
3P		
3Q		
3R		
4C	42	Instrument Panel Wire and J/B No.4 (Instrument Panel Right)
4H		
4I		
DD	30	Engine Room Main Wire and Instrument Panel J/B (Lower Finish Panel)
DF	30	Instrument Panel Wire and Instrument Panel J/B (Lower Finish Panel)
DG	31	
DK	30	
DM		
DO	30	Floor Wire and Instrument Panel J/B (Lower Finish Panel)
DP		
DR	30	Instrument Panel Wire and Instrument Panel J/B (Lower Finish Panel)

Interior Light

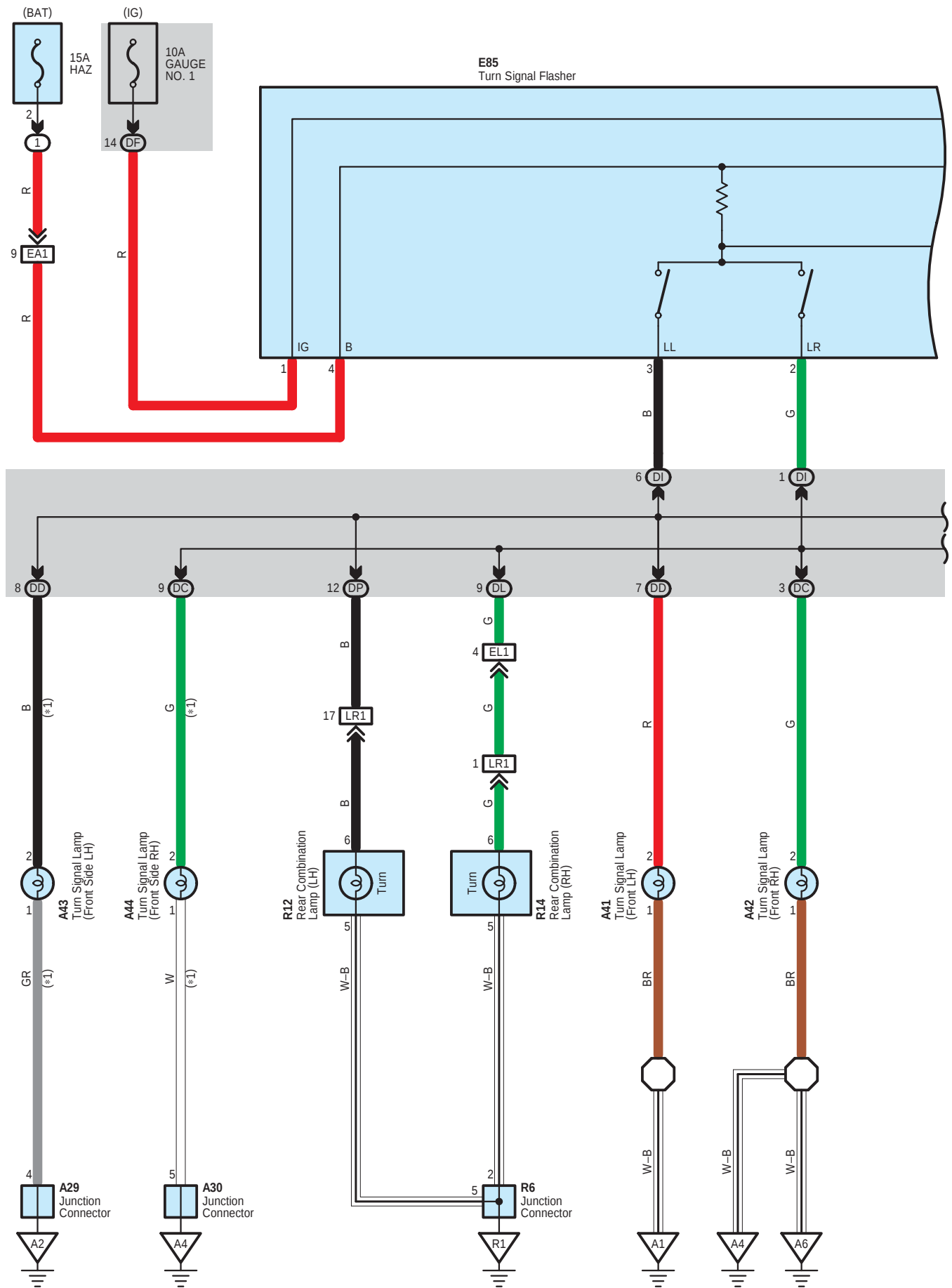
: Connector Joining Wire Harness and Wire Harness

Code	See Page	Joining Wire Harness and Wire Harness (Connector Location)
EL1	69	Instrument Panel Wire and Floor Wire (Left Kick Panel)
EL2		
EM1	69	Instrument Panel Wire and Floor No.2 Wire (Right Kick Panel)
EM2		
EM3		
EQ1	69	Instrument Panel Wire and Roof Wire (Front Pillar LH)
HE1	69	Front Door RH Wire and Instrument Panel Wire (Right Kick Panel)
HE2		
IE1	69	Front Door LH Wire and Instrument Panel Wire (Left Kick Panel)
IE2		
JM1	70	Rear Door No.1 Wire and Floor No.2 Wire (Center Pillar RH)
KL1	70	Rear Door No.2 Wire and Floor Wire (Center Pillar LH)
LR1	70	Floor Wire and Luggage Room Wire (Roof Side Rear Inner Panel LH)

: Ground Points

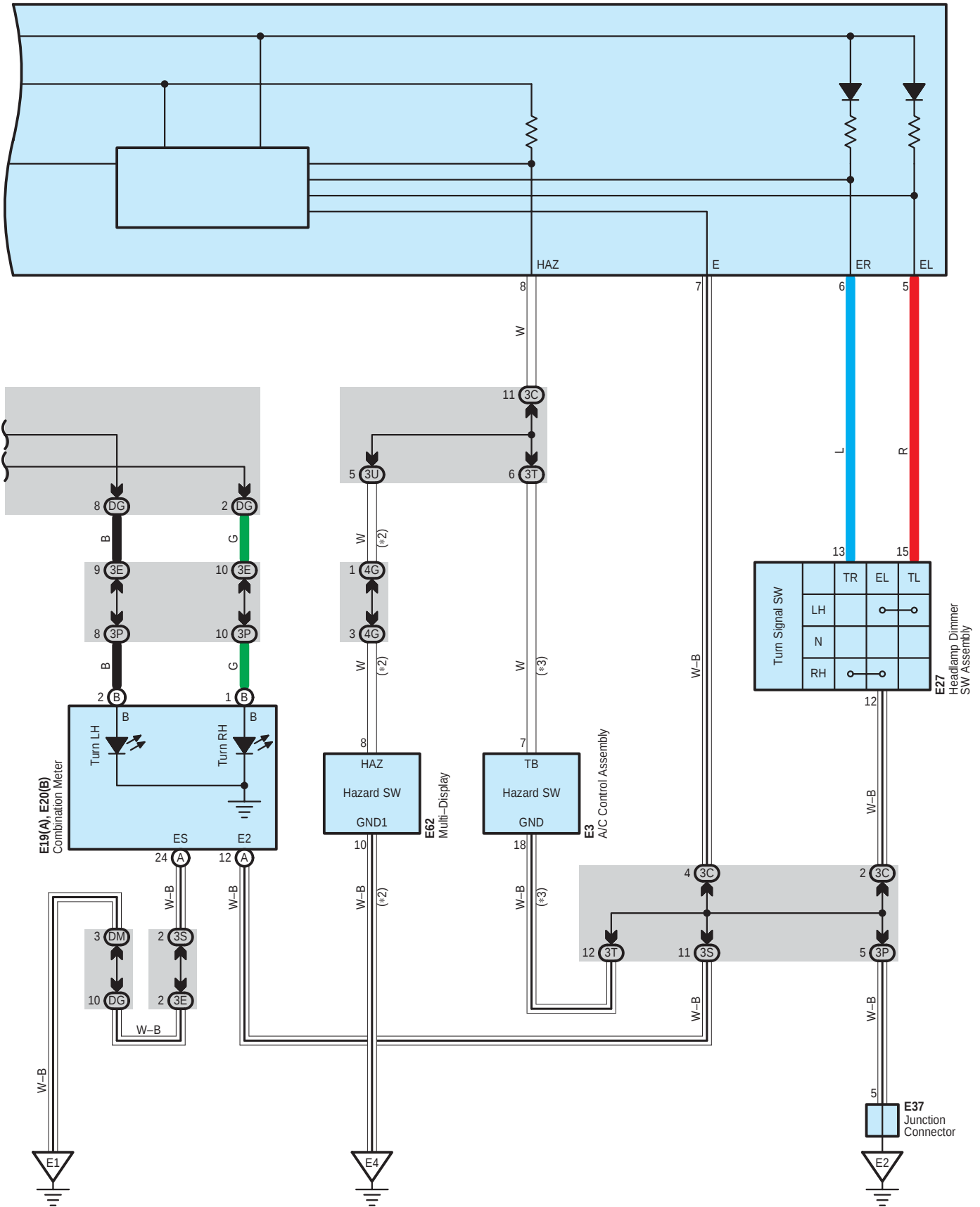
Code	See Page	Ground Points Location
E1	69	Left Side of the Instrument Panel Reinforcement
E2	69	Instrument Panel Brace LH
R1	70	Roof Side Rear Inner Panel LH

Turn Signal and Hazard Warning Light



- * 1 : Korea, Taiwan
- * 2 : w/ LEXUS Navigation System
- * 3 : w/o LEXUS Navigation System

E85 Turn Signal Flasher



Turn Signal and Hazard Warning Light

: Parts Location

Code	See Page	Code	See Page	Code	See Page
A29	54	E3	58	E85	59
A30	54	E19	A	R6	65
A41	55	E20	B	R12	65
A42	55	E27	58	R14	65
A43	55	E37	58		
A44	55	E62	59		

: Relay Blocks

Code	See Page	Relay Blocks (Relay Block Location)
1	22	Engine Room R/B (Engine Compartment Left)

: Junction Block and Wire Harness Connector

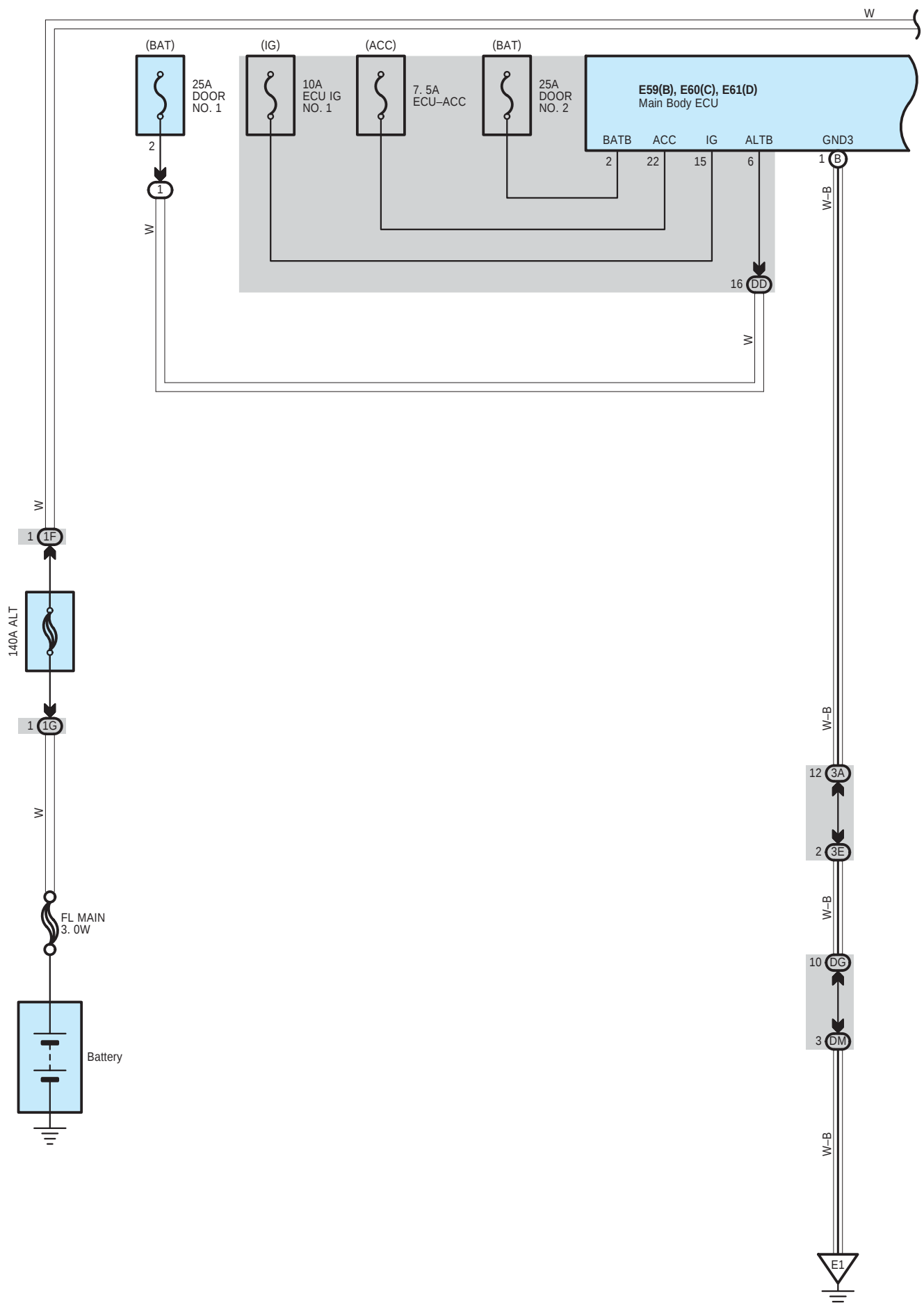
Code	See Page	Junction Block and Wire Harness (Connector Location)
3C	36	Instrument Panel Wire and J/B No.3 (Instrument Panel Left)
3E		
3P		
3S		
3T		
3U		
4G	42	Instrument Panel Wire and J/B No.4 (Instrument Panel Right)
DC	30	Engine Room Main Wire and Instrument Panel J/B (Lower Finish Panel)
DD		
DF	30	Instrument Panel Wire and Instrument Panel J/B (Lower Finish Panel)
DG	31	
DI		
DL	30	
DM		
DP	30	Floor Wire and Instrument Panel J/B (Lower Finish Panel)

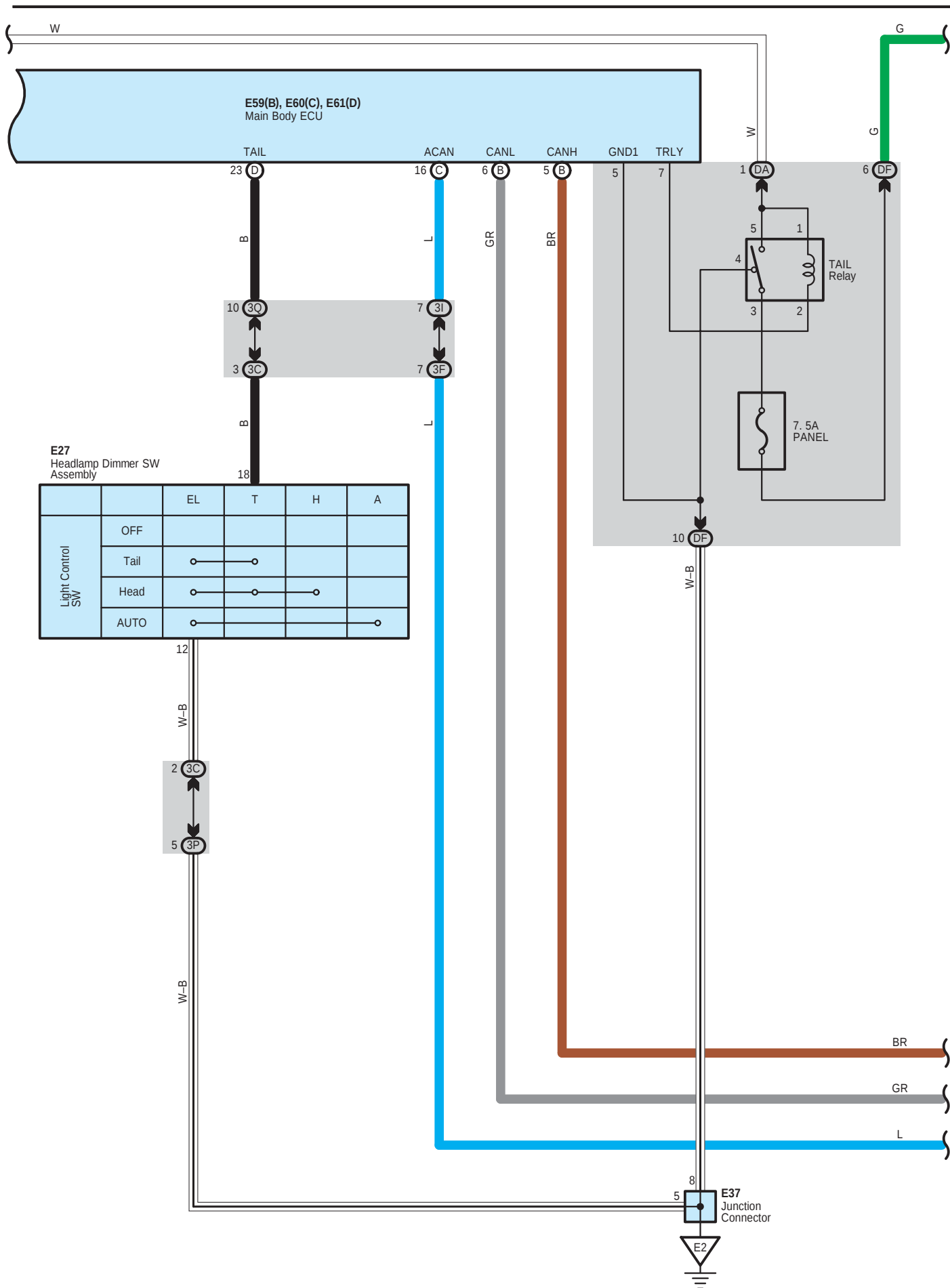
: Connector Joining Wire Harness and Wire Harness

Code	See Page	Joining Wire Harness and Wire Harness (Connector Location)
EA1	69	Instrument Panel Wire and Engine Room Main Wire (Left Kick Panel)
EL1	69	Instrument Panel Wire and Floor Wire (Left Kick Panel)
LR1	70	Floor Wire and Luggage Room Wire (Roof Side Rear Inner Panel LH)

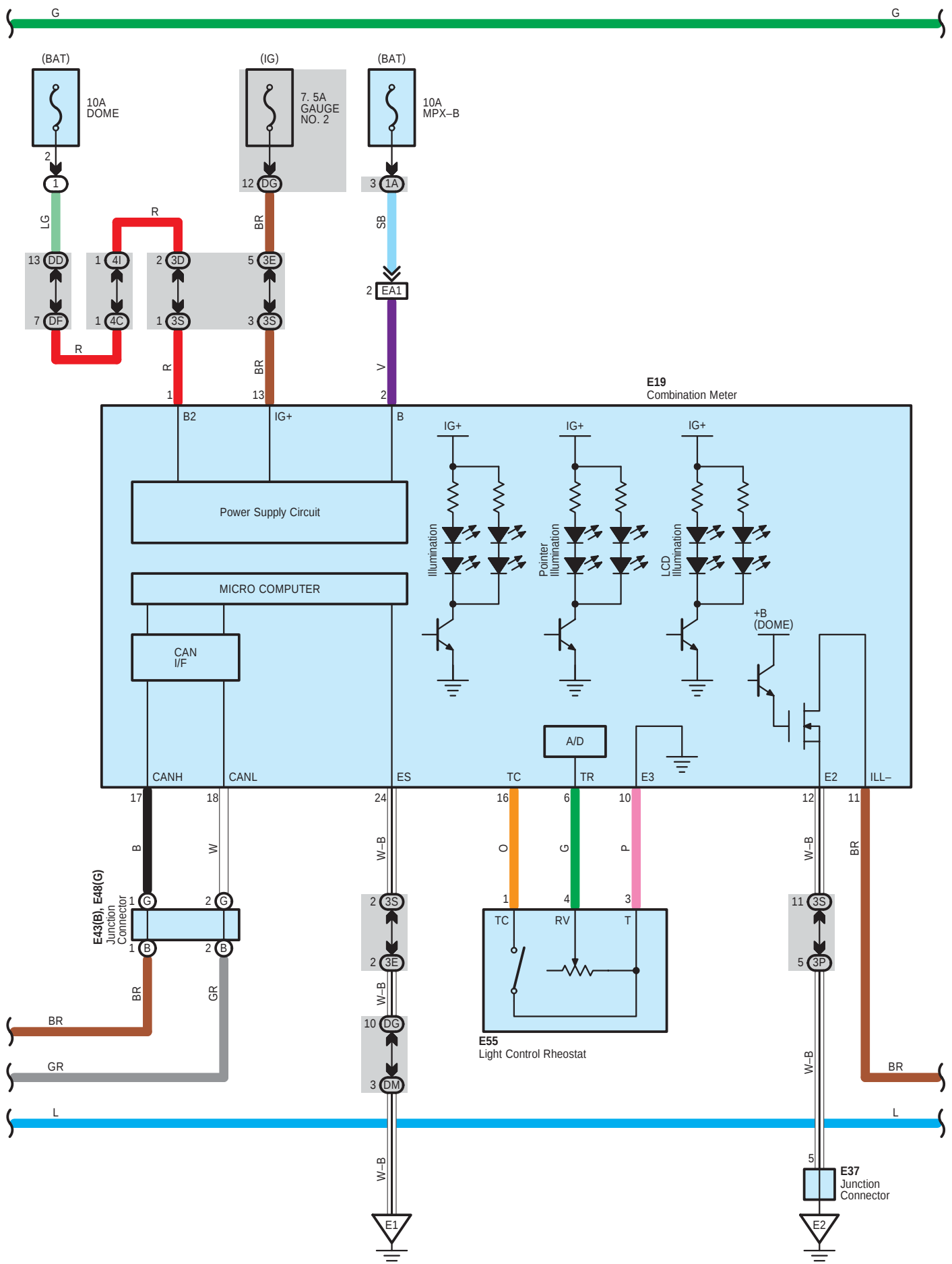
: Ground Points

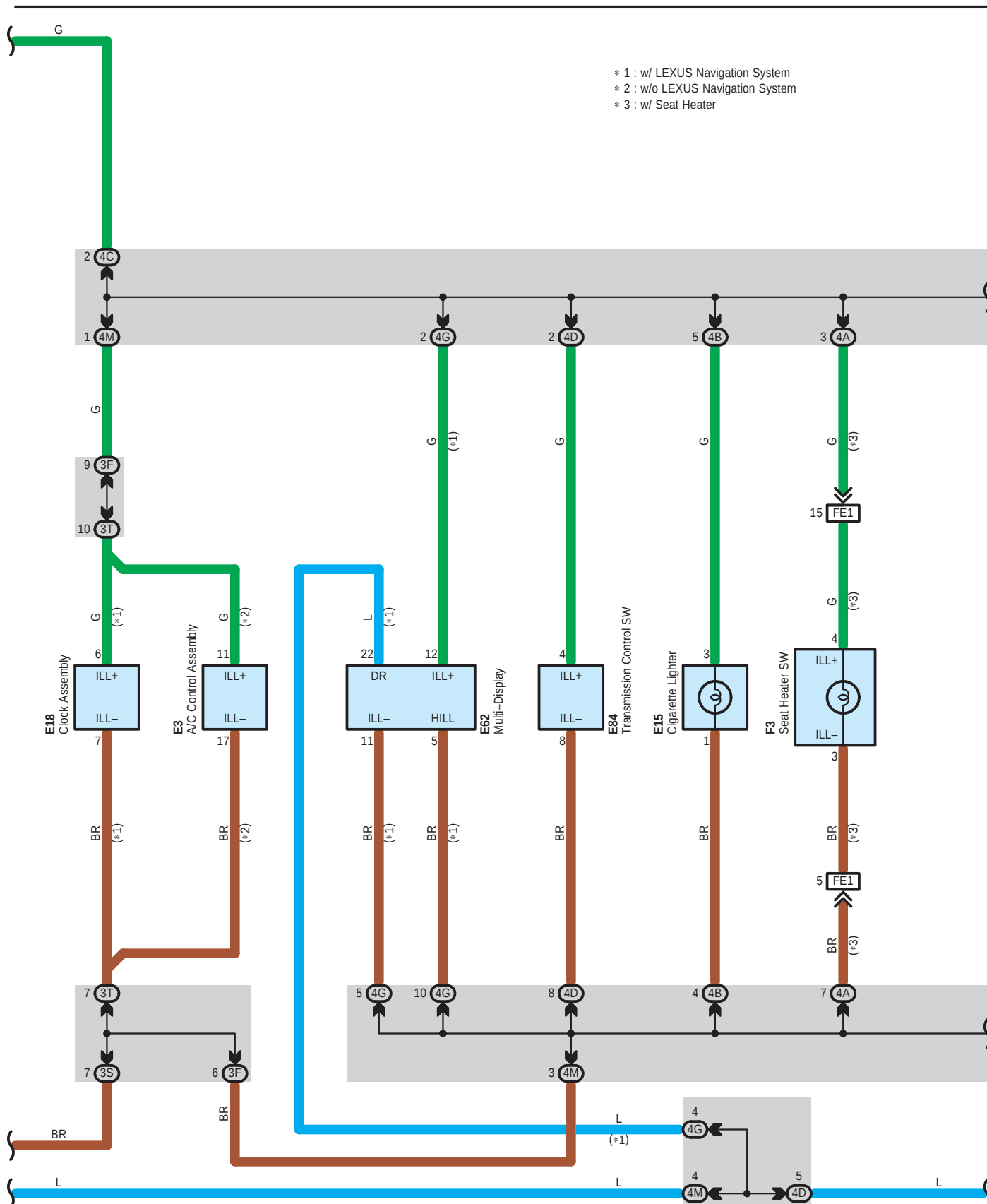
Code	See Page	Ground Points Location
A1	68	Front Left Fender Apron
A2		
A4	68	Front Right Fender Apron
A6	69	Cowl Side Right
E1	69	Left Side of the Instrument Panel Reinforcement
E2	69	Instrument Panel Brace LH
E4	69	Instrument Panel Brace RH
R1	70	Roof Side Rear Inner Panel LH



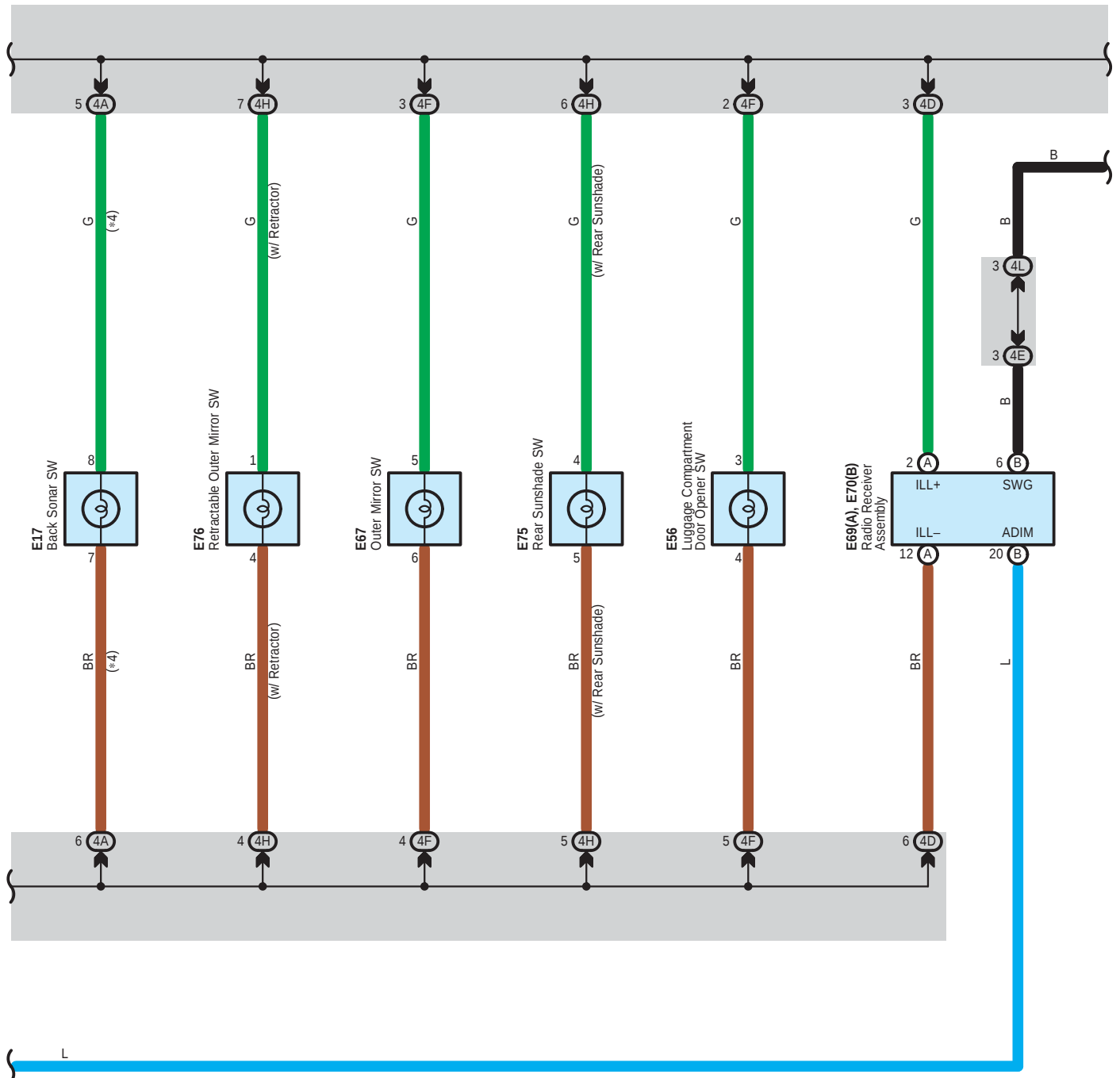


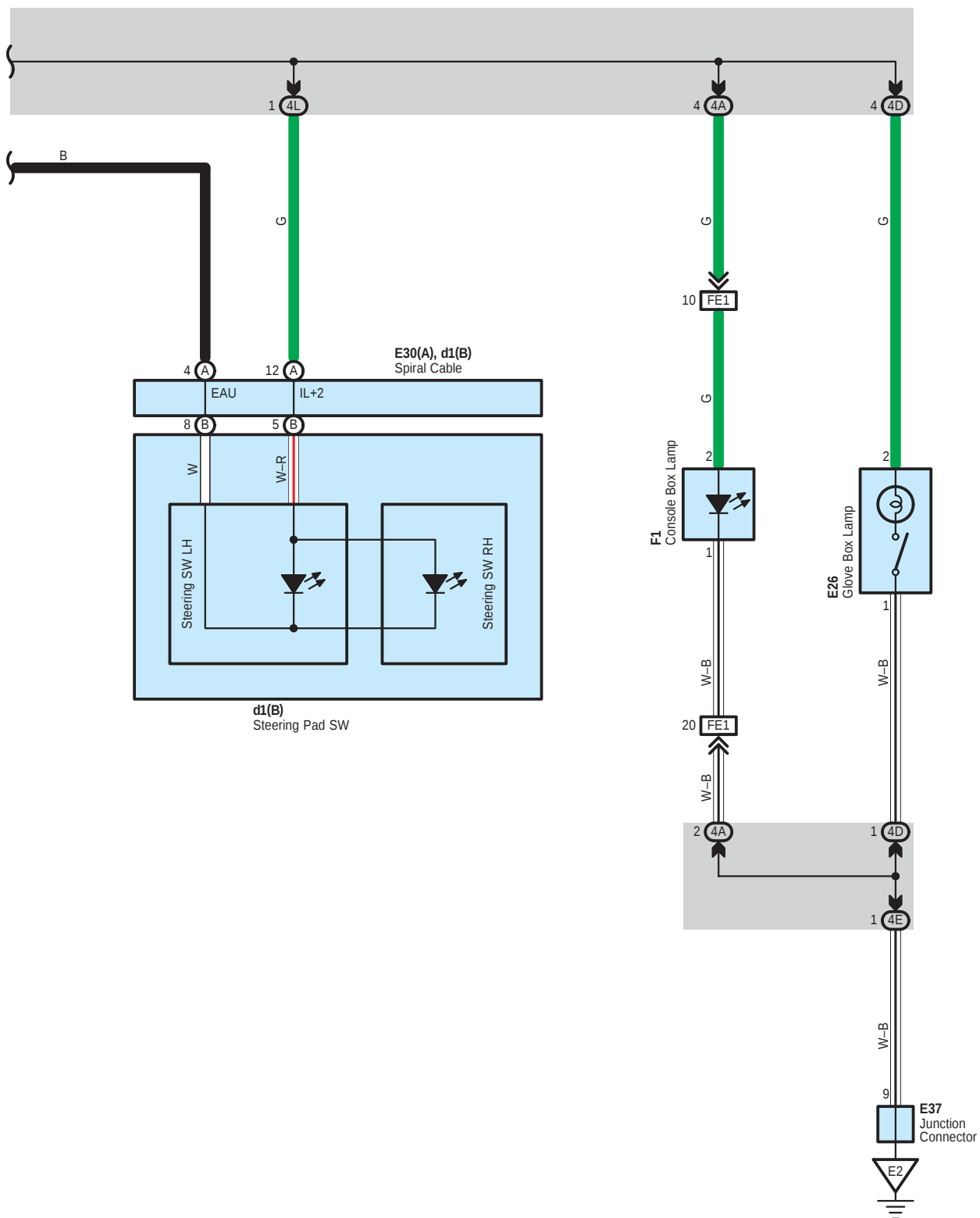
Illumination





* 4 : w/ Parking Assist (Intuitive Parking Assist)





Illumination

☐ : Parts Location

Code		See Page		Code		See Page		Code		See Page	
E3		58		E43	B	48, 59		E69	A	59	
E15		58		E48	G	48, 59		E70	B	59	
E17		58		E55		59		E75		59	
E18		58		E56		59		E76		59	
E19		58		E59	B	59		E84		59	
E26		58		E60	C	59		F1		61	
E27		58		E61	D	59		F3		61	
E30	A	58		E62		59		d1	B	61	
E37		58		E67		59					

☐ : Relay Blocks

Code	See Page	Relay Blocks (Relay Block Location)
1	22	Engine Room R/B (Engine Compartment Left)

☐ : Junction Block and Wire Harness Connector

Code	See Page	Junction Block and Wire Harness (Connector Location)
1A	24	Engine Room Main Wire and Engine Room J/B (Engine Compartment Left)
1F	22	
1G		
3A	36	Instrument Panel Wire and J/B No.3 (Instrument Panel Left)
3C		
3D		
3E		
3F		
3I		
3P		
3Q		
3S		
3T		
4A	42	Instrument Panel Wire and J/B No.4 (Instrument Panel Right)
4B		
4C		
4D		
4E		
4F		
4G		
4H		
4I		
4L		
4M		
DA	30	Engine Room Main Wire and Instrument Panel J/B (Lower Finish Panel)
DD		
DF	30	Instrument Panel Wire and Instrument Panel J/B (Lower Finish Panel)
DG	31	
DM	30	

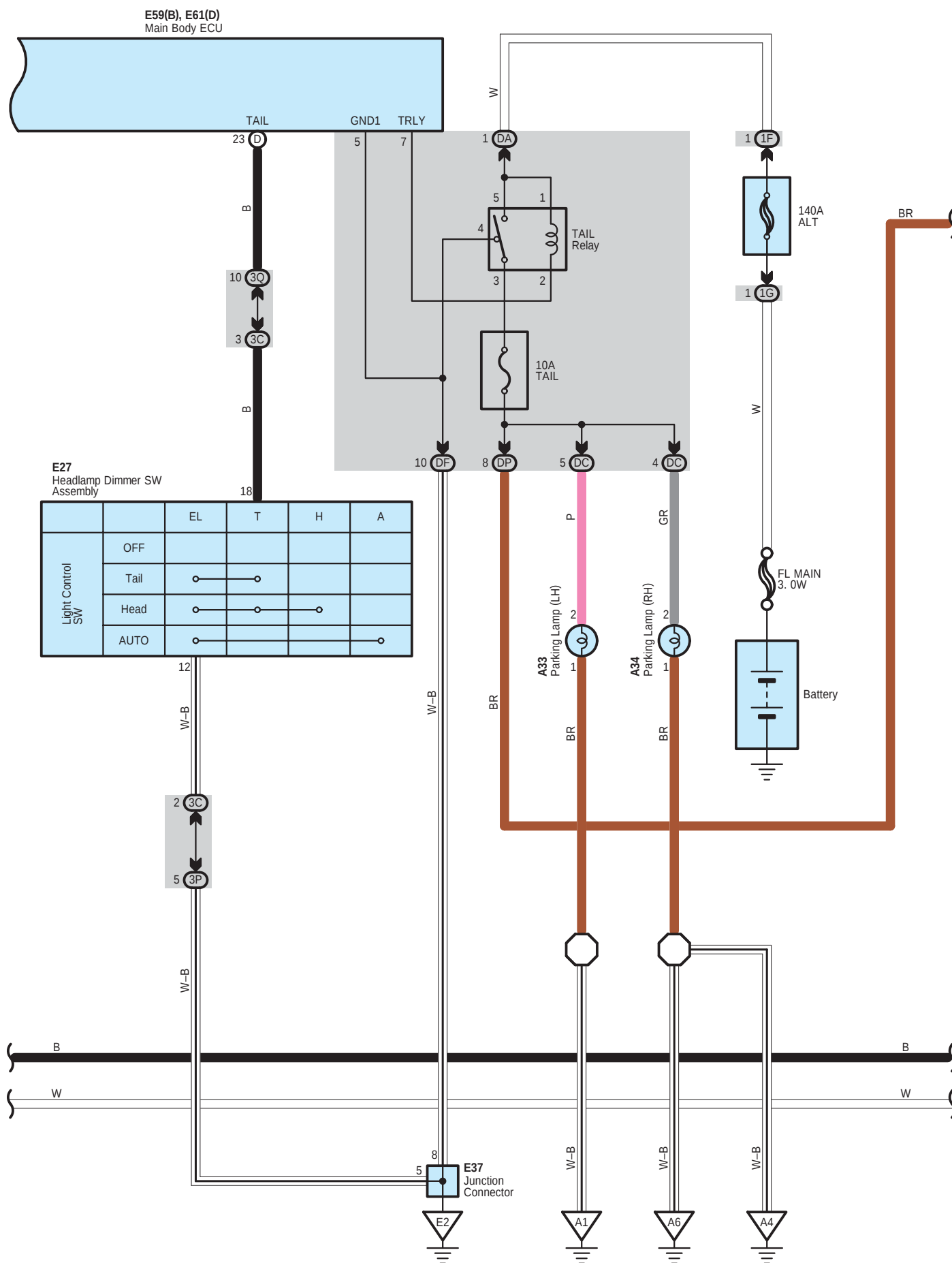
☐ : Connector Joining Wire Harness and Wire Harness

Code	See Page	Joining Wire Harness and Wire Harness (Connector Location)
EA1	69	Instrument Panel Wire and Engine Room Main Wire (Left Kick Panel)
FE1	69	Instrument Panel No.2 Wire and Instrument Panel Wire (Under the Console Box)



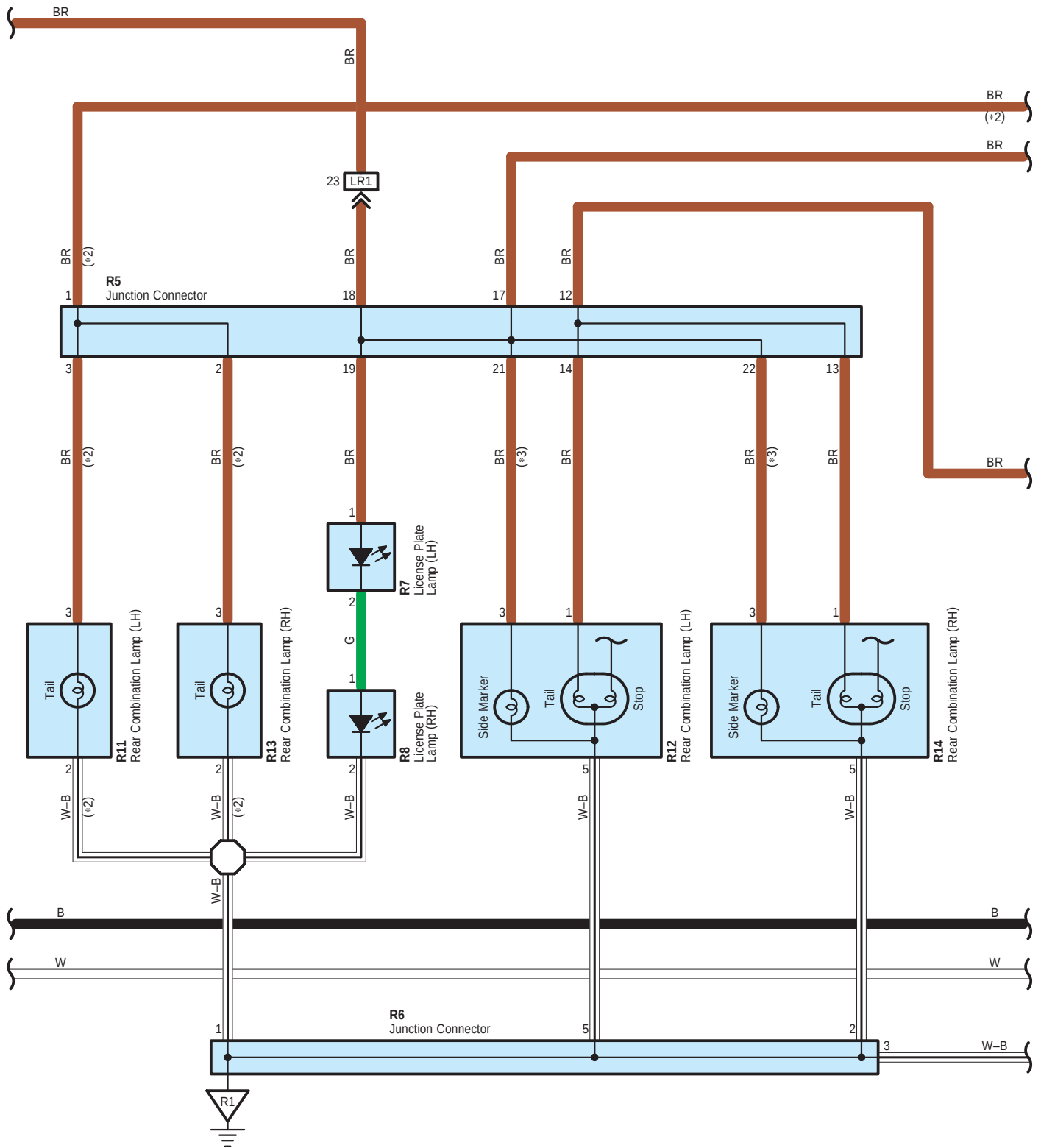
: Ground Points

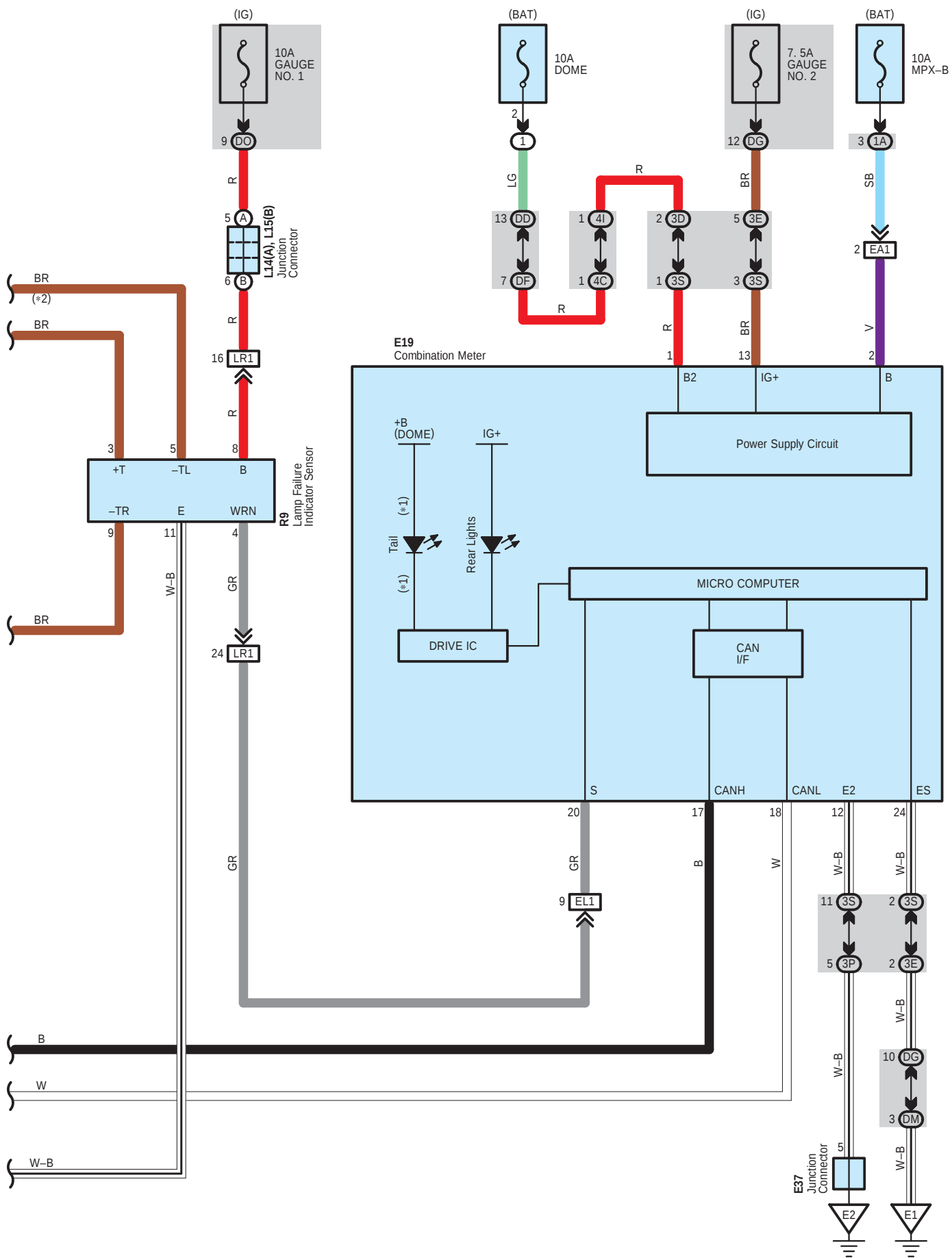
Code	See Page	Ground Points Location
E1	69	Left Side of the Instrument Panel Reinforcement
E2	69	Instrument Panel Brace LH



Taillight

- * 1 : Except USA
- * 2 : w/o Rear Fog Light
- * 3 : w/ Side Marker





Taillight

: Parts Location

Code	See Page	Code	See Page	Code	See Page
A33	54	E59	B 59	R8	65
A34	54	E61	D 59	R9	65
E19	58	L14	A 62	R11	65
E27	58	L15	B 62	R12	65
E37	58	R5	65	R13	65
E43	B 48, 59	R6	65	R14	65
E48	G 48, 59	R7	65		

: Relay Blocks

Code	See Page	Relay Blocks (Relay Block Location)
1	22	Engine Room R/B (Engine Compartment Left)

: Junction Block and Wire Harness Connector

Code	See Page	Junction Block and Wire Harness (Connector Location)
1A	24	Engine Room Main Wire and Engine Room J/B (Engine Compartment Left)
1F	22	
1G		
3A	36	Instrument Panel Wire and J/B No.3 (Instrument Panel Left)
3C		
3D		
3E		
3P		
3Q		
3S		
4C	42	Instrument Panel Wire and J/B No.4 (Instrument Panel Right)
4I		
DA	30	Engine Room Main Wire and Instrument Panel J/B (Lower Finish Panel)
DC		
DD		
DF	30	Instrument Panel Wire and Instrument Panel J/B (Lower Finish Panel)
DG	31	
DM	30	
DO	30	Floor Wire and Instrument Panel J/B (Lower Finish Panel)
DP		

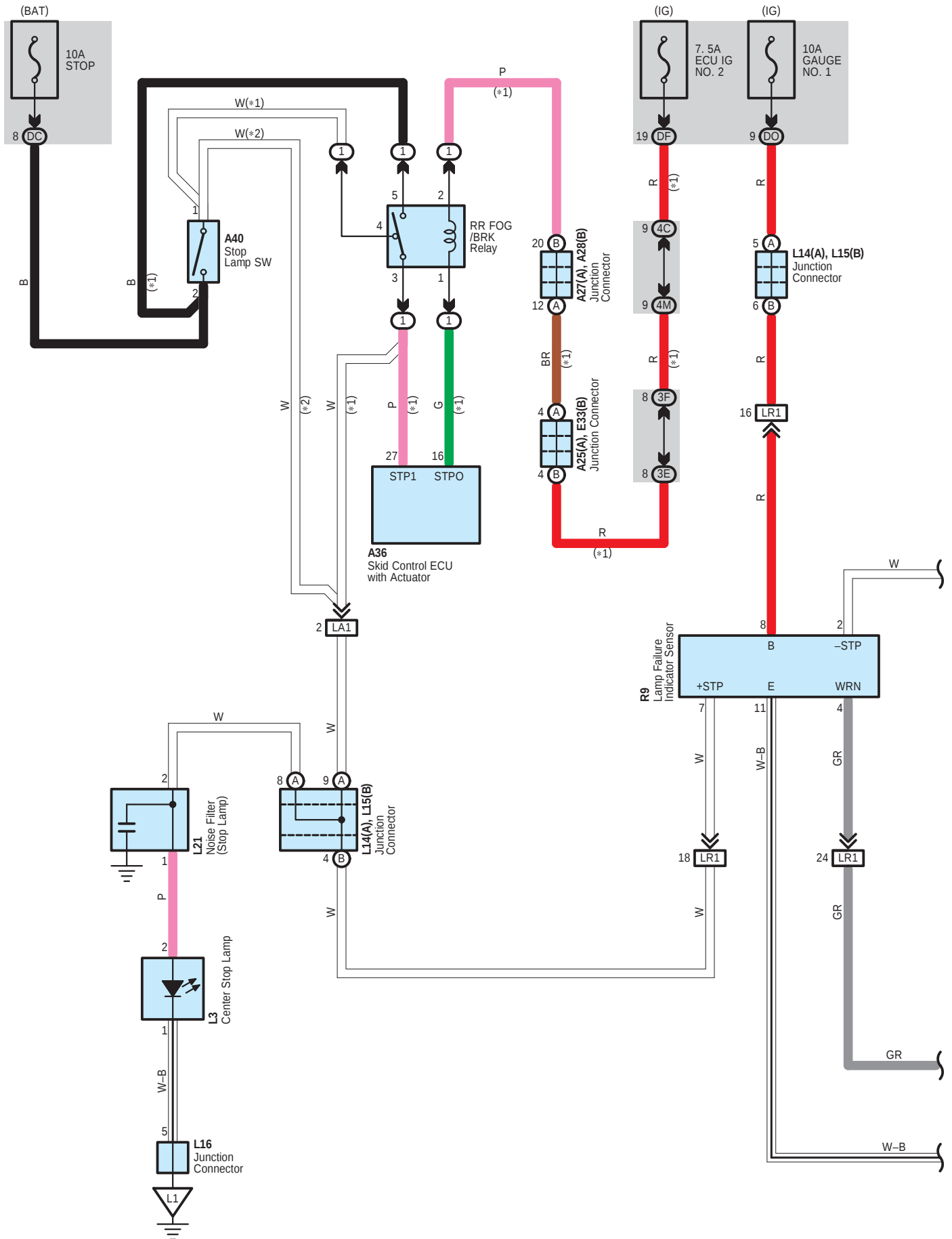
: Connector Joining Wire Harness and Wire Harness

Code	See Page	Joining Wire Harness and Wire Harness (Connector Location)
EA1	69	Instrument Panel Wire and Engine Room Main Wire (Left Kick Panel)
EL1	69	Instrument Panel Wire and Floor Wire (Left Kick Panel)
LR1	70	Floor Wire and Luggage Room Wire (Roof Side Rear Inner Panel LH)

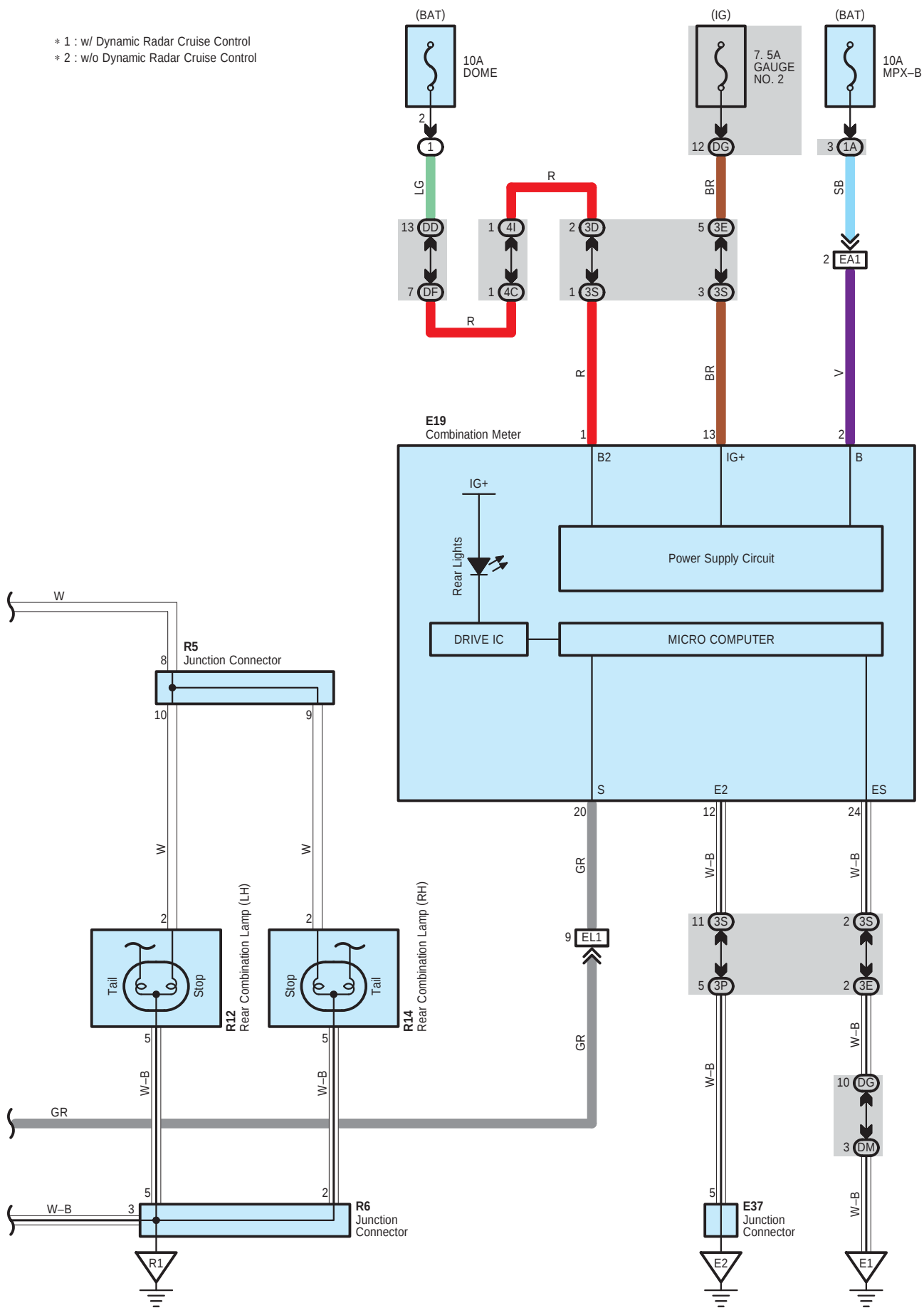
: Ground Points

Code	See Page	Ground Points Location
A1	68	Front Left Fender Apron
A4	68	Front Right Fender Apron
A6	69	Cowl Side Right
E1	69	Left Side of the Instrument Panel Reinforcement
E2	69	Instrument Panel Brace LH
R1	70	Roof Side Rear Inner Panel LH

Stop Light



* 1 : w/ Dynamic Radar Cruise Control
 * 2 : w/o Dynamic Radar Cruise Control



Stop Light

: Parts Location

Code		See Page	Code		See Page	Code		See Page
A25	A	60	E33	B	58	L21	62	
A27	A	60	E37		58	R5	65	
A28	B	60	L3		62	R6	65	
A36		55	L14	A	62	R9	65	
A40		60	L15	B	62	R12	65	
E19		58	L16		62	R14	65	

: Relay Blocks

Code	See Page	Relay Blocks (Relay Block Location)
1	22	Engine Room R/B (Engine Compartment Left)

: Junction Block and Wire Harness Connector

Code	See Page	Junction Block and Wire Harness (Connector Location)
1A	24	Engine Room Main Wire and Engine Room J/B (Engine Compartment Left)
3D	36	Instrument Panel Wire and J/B No.3 (Instrument Panel Left)
3E		
3F		
3P		
3S		
4C	42	Instrument Panel Wire and J/B No.4 (Instrument Panel Right)
4I		
4M		
DC	30	Engine Room Main Wire and Instrument Panel J/B (Lower Finish Panel)
DD		
DF	30	Instrument Panel Wire and Instrument Panel J/B (Lower Finish Panel)
DG	31	
DM	30	
DO	30	Floor Wire and Instrument Panel J/B (Lower Finish Panel)

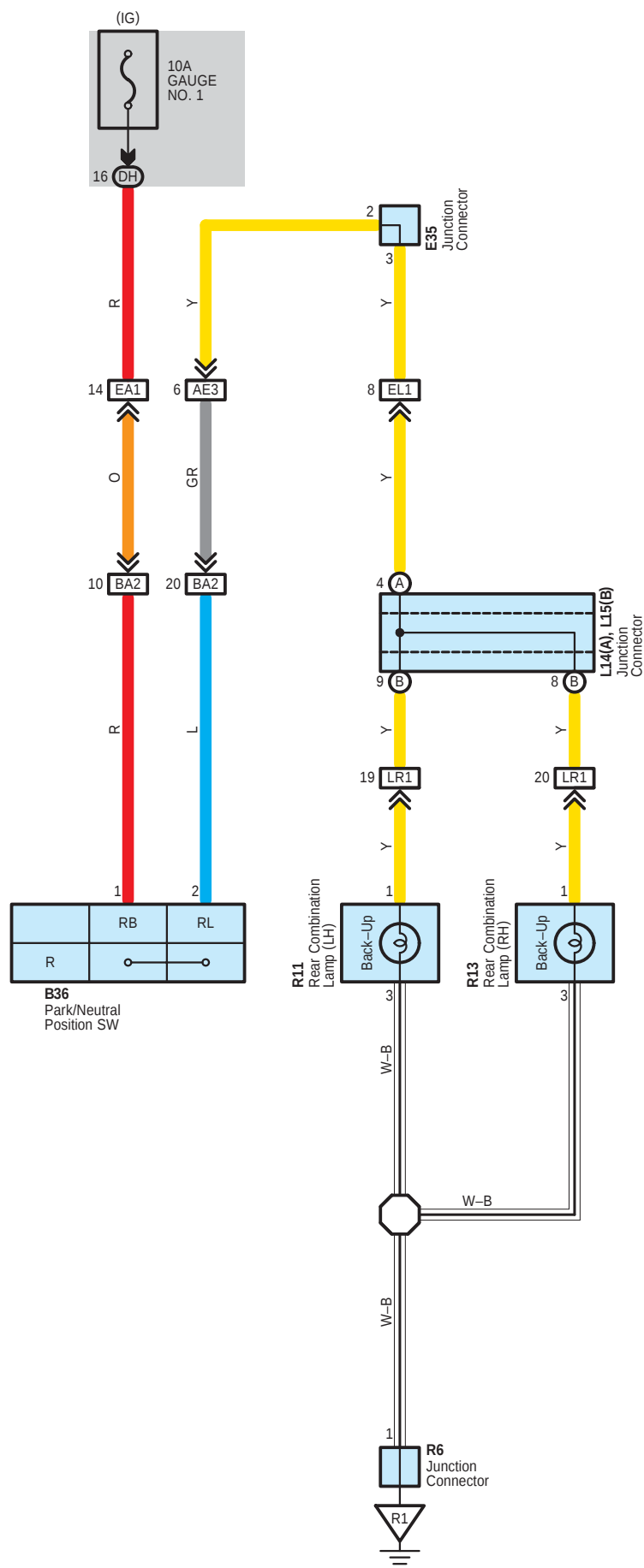
: Connector Joining Wire Harness and Wire Harness

Code	See Page	Joining Wire Harness and Wire Harness (Connector Location)
EA1	69	Instrument Panel Wire and Engine Room Main Wire (Left Kick Panel)
EL1	69	Instrument Panel Wire and Floor Wire (Left Kick Panel)
LA1	69	Floor Wire and Engine Room Main Wire (Cowl Side Left)
LR1	70	Floor Wire and Luggage Room Wire (Roof Side Rear Inner Panel LH)

: Ground Points

Code	See Page	Ground Points Location
E1	69	Left Side of the Instrument Panel Reinforcement
E2	69	Instrument Panel Brace LH
L1	70	Rear Pillar LH
R1	70	Roof Side Rear Inner Panel LH

Back-Up Light



 : Parts Location

Code	See Page	Code	See Page	Code	See Page
B36	57	L15 B	62	R13	65
E35	58	R6	65		
L14 A	62	R11	65		

 : Junction Block and Wire Harness Connector

Code	See Page	Junction Block and Wire Harness (Connector Location)
DH	31	Instrument Panel Wire and Instrument Panel J/B (Lower Finish Panel)

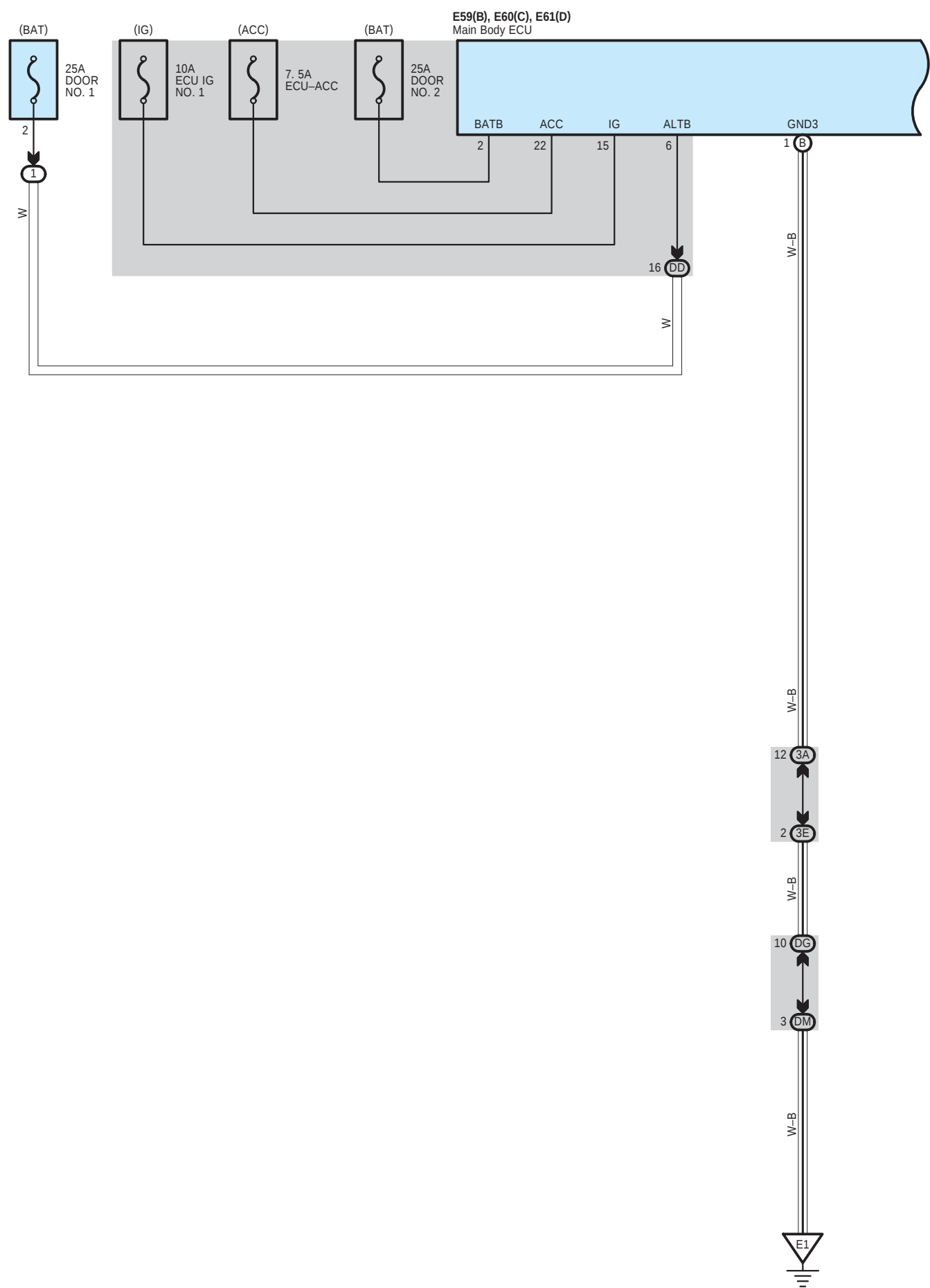
 : Connector Joining Wire Harness and Wire Harness

Code	See Page	Joining Wire Harness and Wire Harness (Connector Location)
AE3	69	Engine Room Main Wire and Instrument Panel Wire (Instrument Panel Right)
BA2	68	Engine Wire and Engine Room Main Wire (Inside of the Engine Room R/B and Engine Room J/B)
EA1	69	Instrument Panel Wire and Engine Room Main Wire (Left Kick Panel)
EL1	69	Instrument Panel Wire and Floor Wire (Left Kick Panel)
LR1	70	Floor Wire and Luggage Room Wire (Roof Side Rear Inner Panel LH)

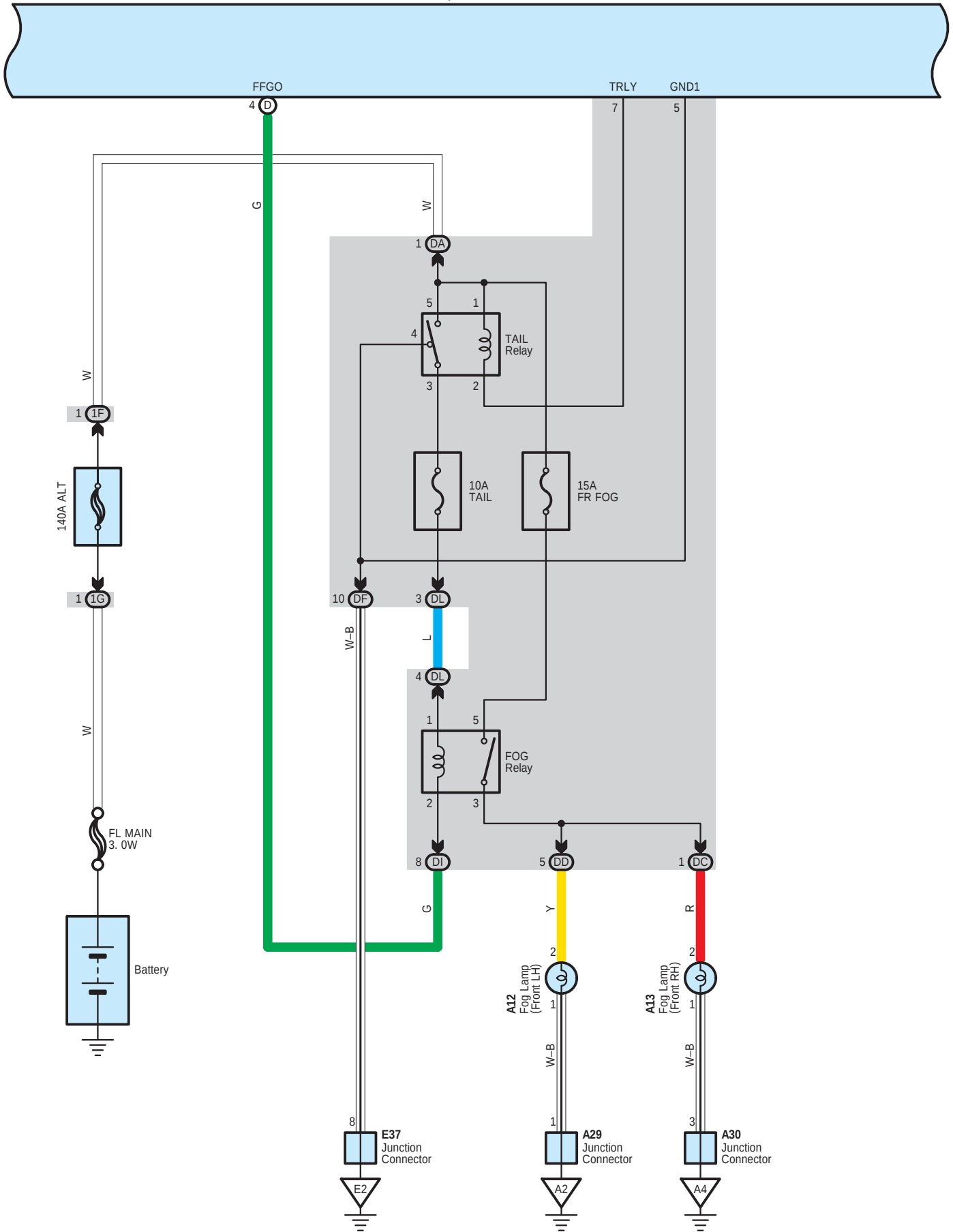
 : Ground Points

Code	See Page	Ground Points Location
R1	70	Roof Side Rear Inner Panel LH

Front Fog Light



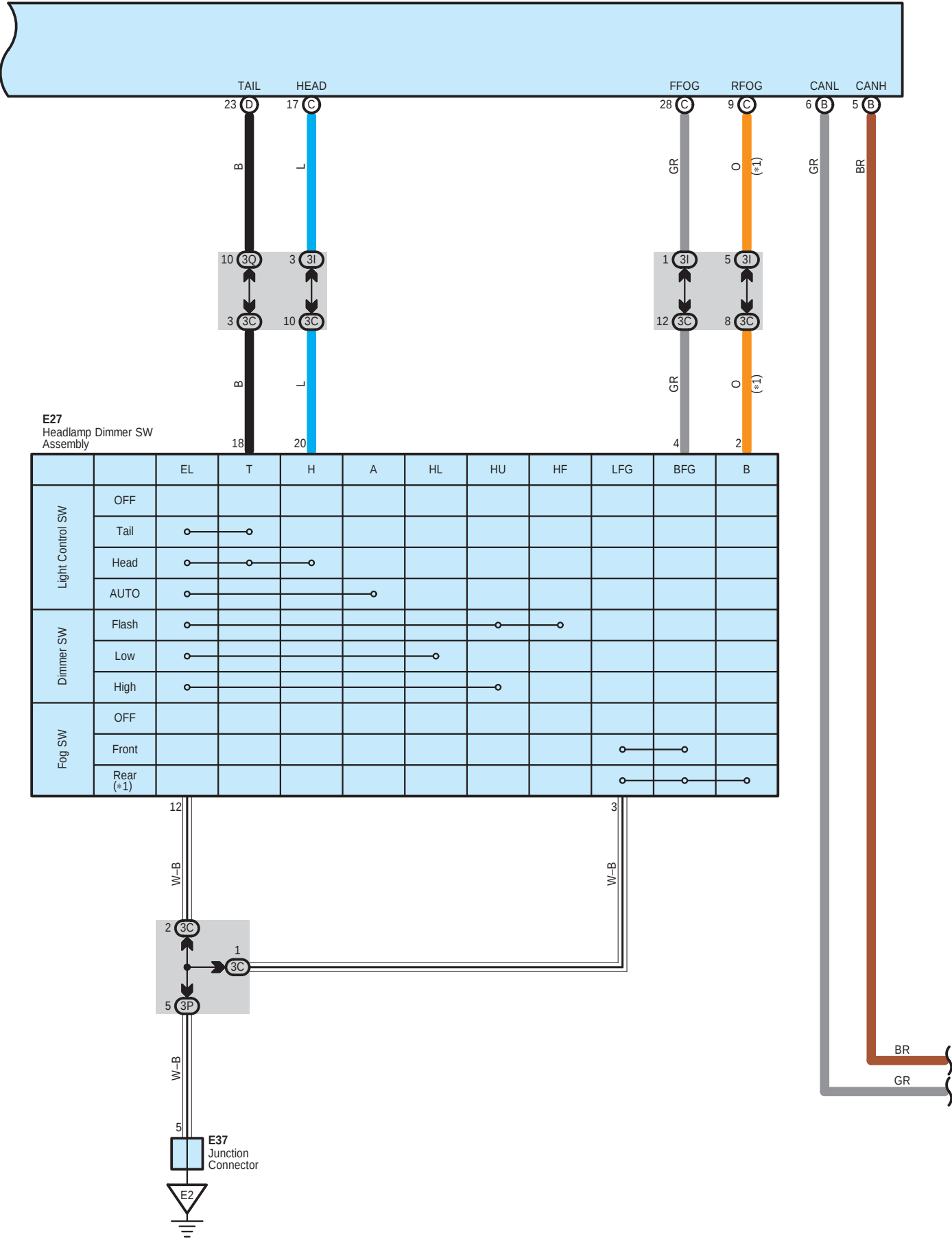
E59(B), E60(C), E61(D)
Main Body ECU

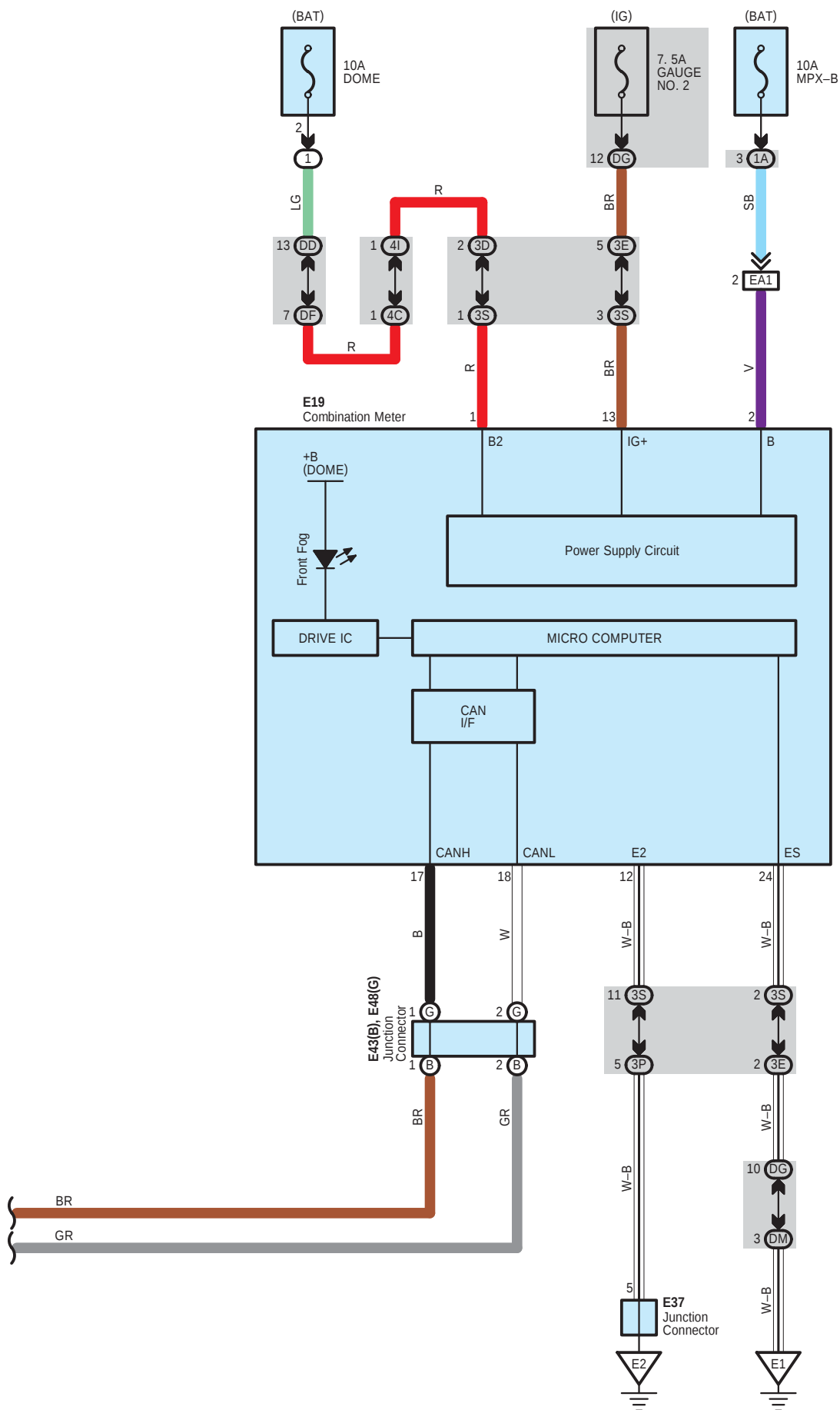


Front Fog Light

E59(B), E60(C), E61(D)
Main Body ECU

* 1 : w/ Rear Fog Light





Front Fog Light

: Parts Location

Code	See Page	Code	See Page	Code	See Page
A12	54	E19	58	E48	G 48, 59
A13	54	E27	58	E59	B 59
A29	54	E37	58	E60	C 59
A30	54	E43	B 48, 59	E61	D 59

: Relay Blocks

Code	See Page	Relay Blocks (Relay Block Location)
1	22	Engine Room R/B (Engine Compartment Left)

: Junction Block and Wire Harness Connector

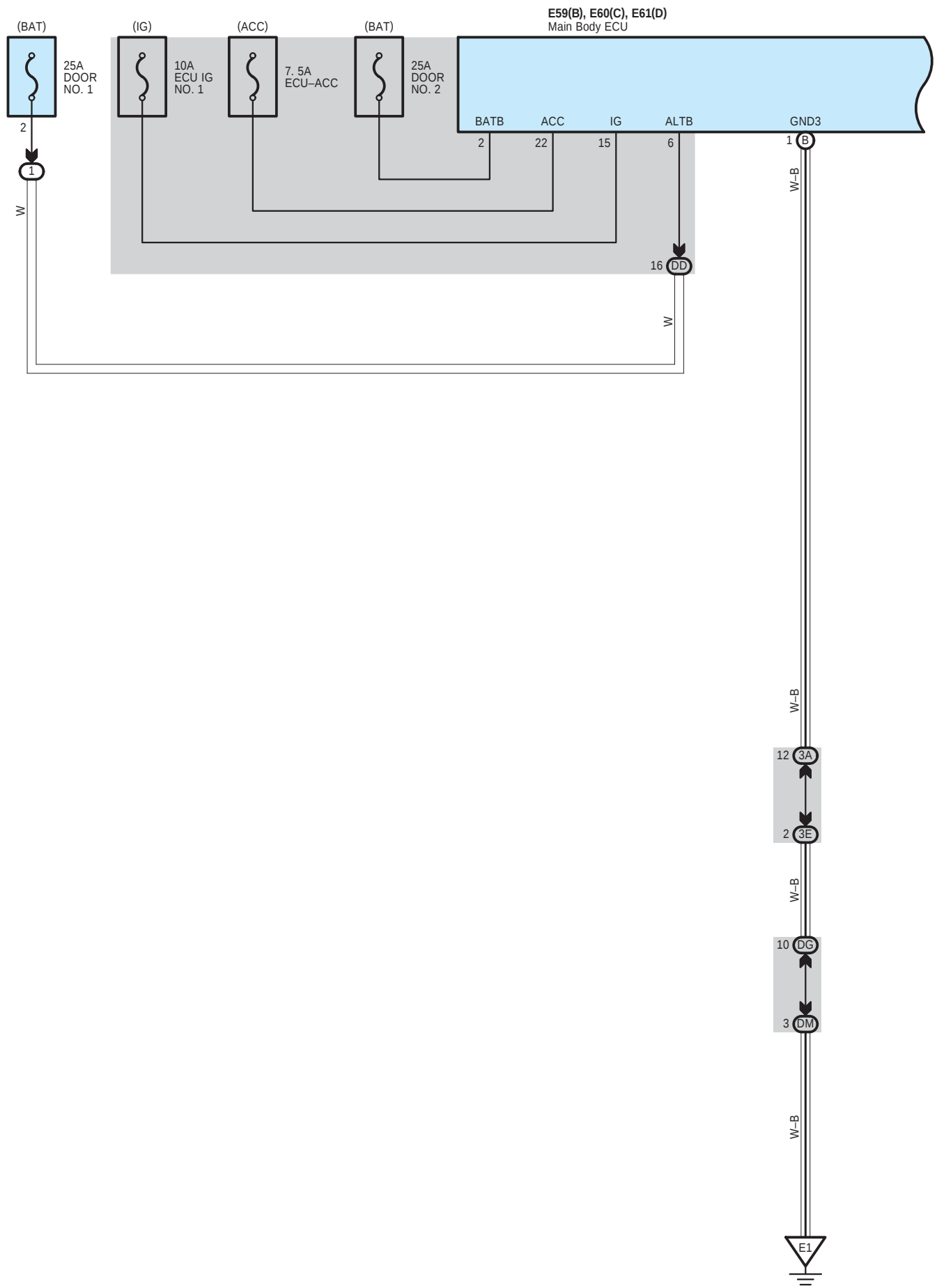
Code	See Page	Junction Block and Wire Harness (Connector Location)
1A	24	Engine Room Main Wire and Engine Room J/B (Engine Compartment Left)
1F	22	
1G		
3A	36	Instrument Panel Wire and J/B No.3 (Instrument Panel Left)
3C		
3D		
3E		
3I		
3P		
3Q		
3S		
4C	42	Instrument Panel Wire and J/B No.4 (Instrument Panel Right)
4I		
DA	30	Engine Room Main Wire and Instrument Panel J/B (Lower Finish Panel)
DC		
DD		
DF	30	Instrument Panel Wire and Instrument Panel J/B (Lower Finish Panel)
DG	31	
DI		
DL	30	
DM		

: Connector Joining Wire Harness and Wire Harness

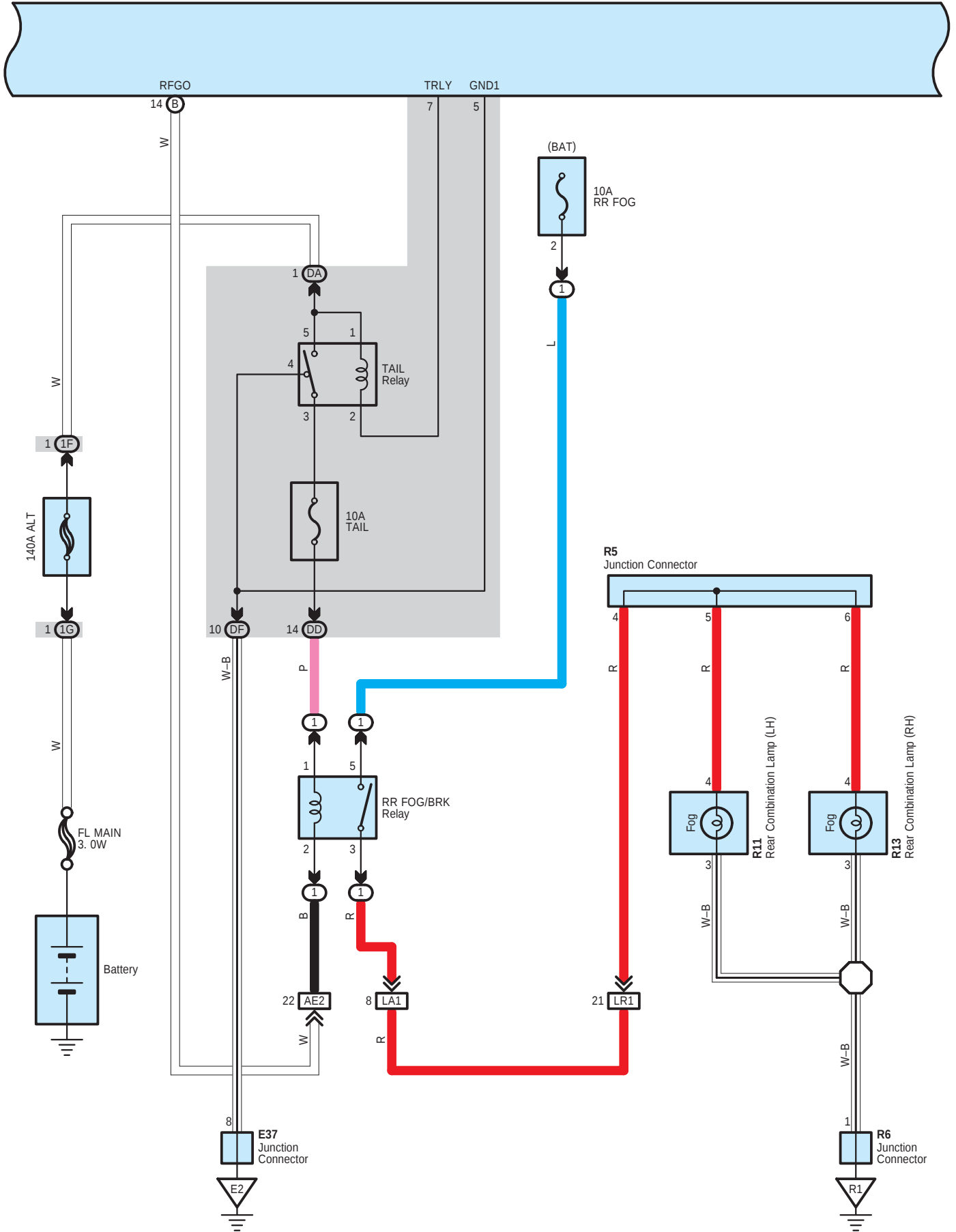
Code	See Page	Joining Wire Harness and Wire Harness (Connector Location)
EA1	69	Instrument Panel Wire and Engine Room Main Wire (Left Kick Panel)

: Ground Points

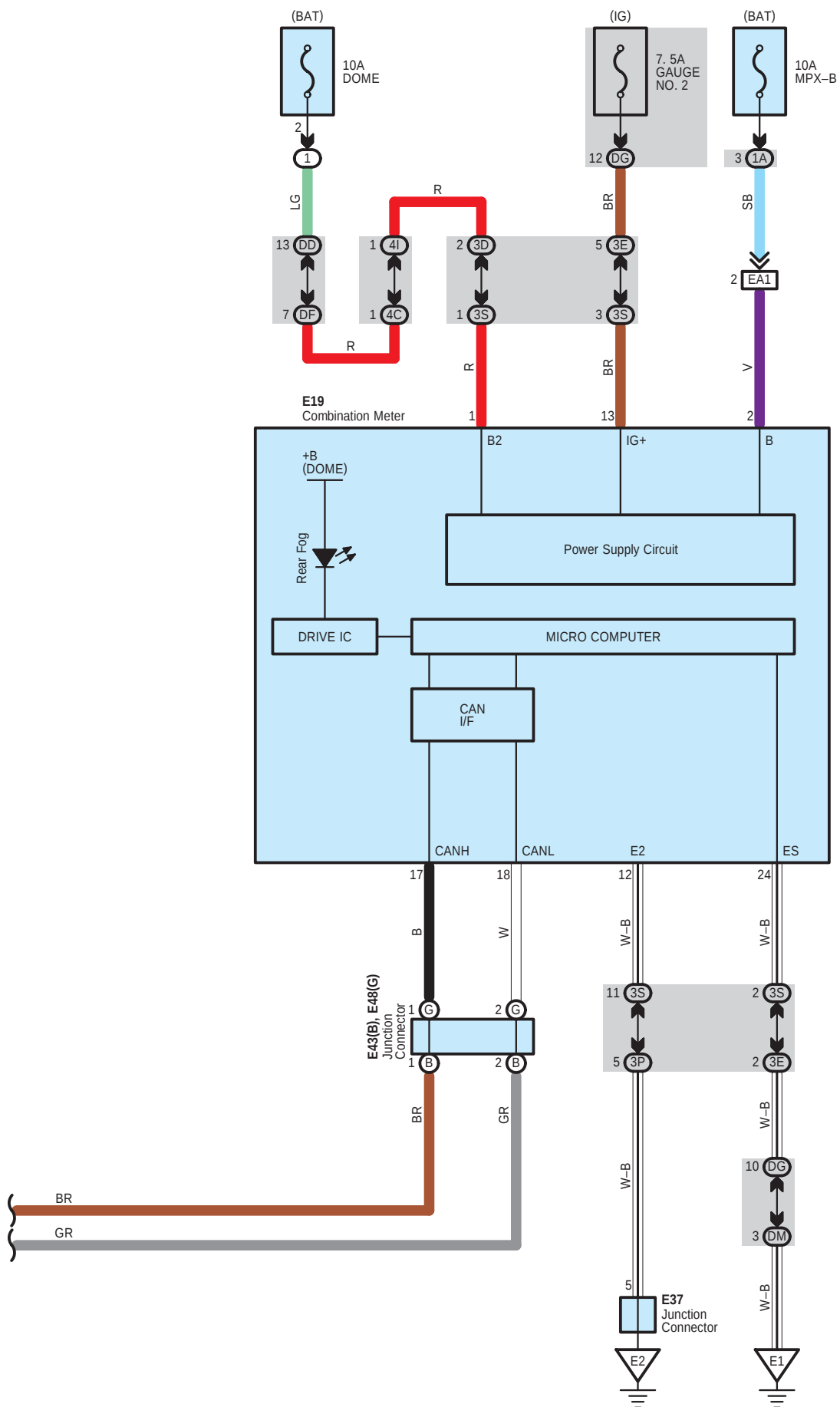
Code	See Page	Ground Points Location
A2	68	Front Left Fender Apron
A4	68	Front Right Fender Apron
E1	69	Left Side of the Instrument Panel Reinforcement
E2	69	Instrument Panel Brace LH



E59(B), E60(C), E61(D)
Main Body ECU







Rear Fog Light

: Parts Location

Code		See Page		Code		See Page		Code		See Page	
E19		58		E48	G	48, 59		R5		65	
E27		58		E59	B	59		R6		65	
E37		58		E60	C	59		R11		65	
E43	B	48, 59		E61	D	59		R13		65	

: Relay Blocks

Code	See Page	Relay Blocks (Relay Block Location)
1	22	Engine Room R/B (Engine Compartment Left)

: Junction Block and Wire Harness Connector

Code	See Page	Junction Block and Wire Harness (Connector Location)
1A	24	Engine Room Main Wire and Engine Room J/B (Engine Compartment Left)
1F	22	
1G		
3A	36	Instrument Panel Wire and J/B No.3 (Instrument Panel Left)
3C		
3D		
3E		
3I		
3P		
3Q		
3S		
4C	42	Instrument Panel Wire and J/B No.4 (Instrument Panel Right)
4I		
DA	30	Engine Room Main Wire and Instrument Panel J/B (Lower Finish Panel)
DD		
DF	30	Instrument Panel Wire and Instrument Panel J/B (Lower Finish Panel)
DG	31	
DM	30	

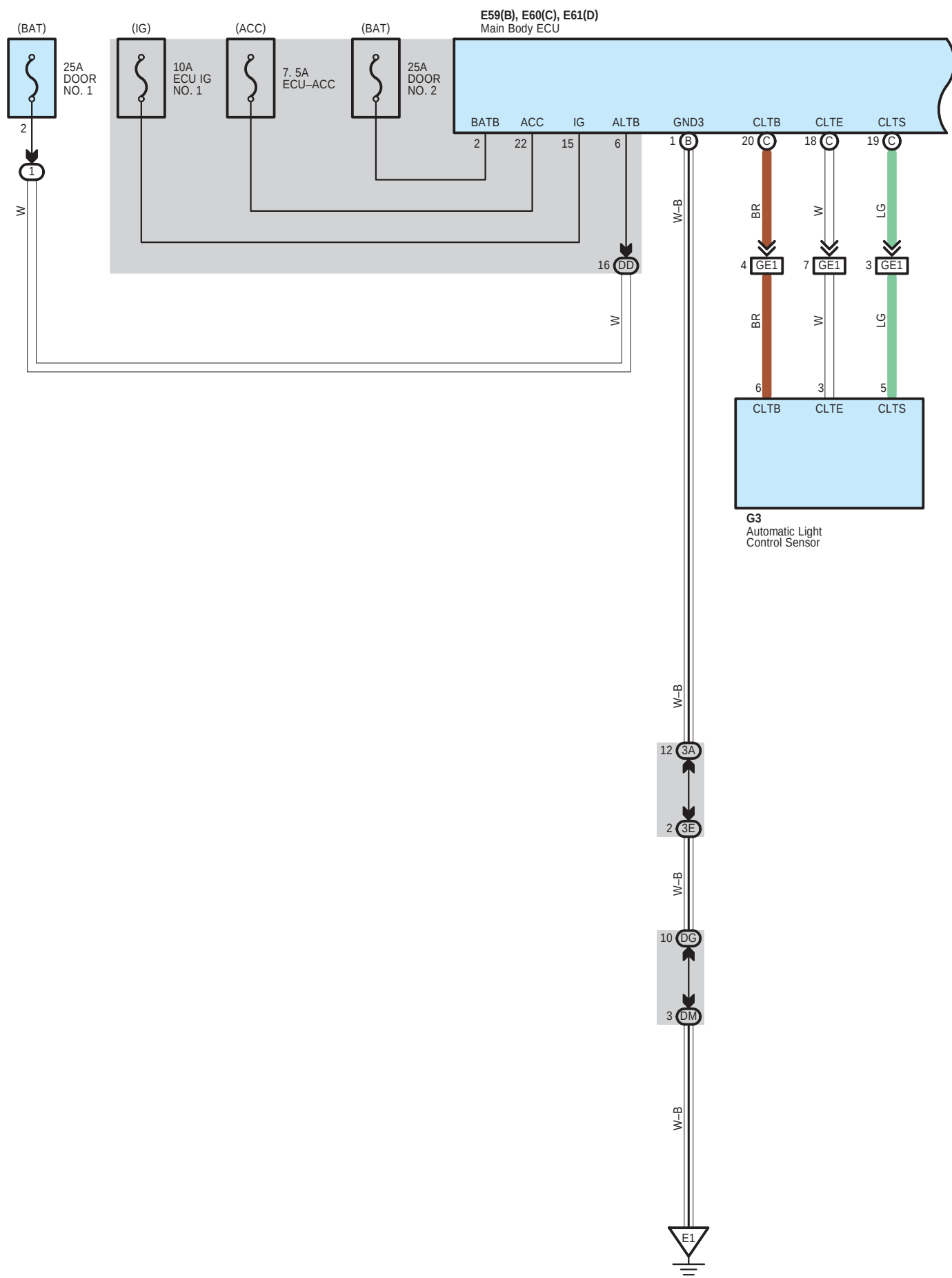
: Connector Joining Wire Harness and Wire Harness

Code	See Page	Joining Wire Harness and Wire Harness (Connector Location)
AE2	69	Engine Room Main Wire and Instrument Panel Wire (Instrument Panel Left)
EA1	69	Instrument Panel Wire and Engine Room Main Wire (Left Kick Panel)
LA1	69	Floor Wire and Engine Room Main Wire (Cowl Side Left)
LR1	70	Floor Wire and Luggage Room Wire (Roof Side Rear Inner Panel LH)

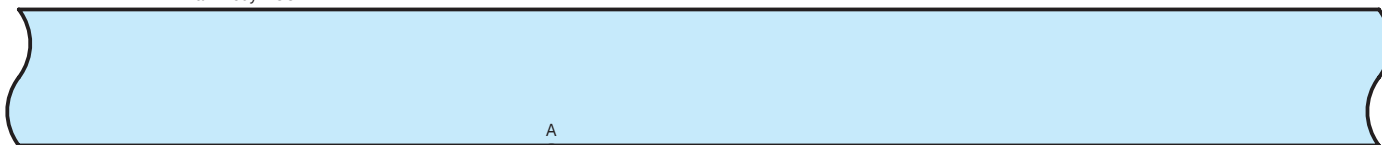
: Ground Points

Code	See Page	Ground Points Location
E1	69	Left Side of the Instrument Panel Reinforcement
E2	69	Instrument Panel Brace LH
R1	70	Roof Side Rear Inner Panel LH

Automatic Light Control

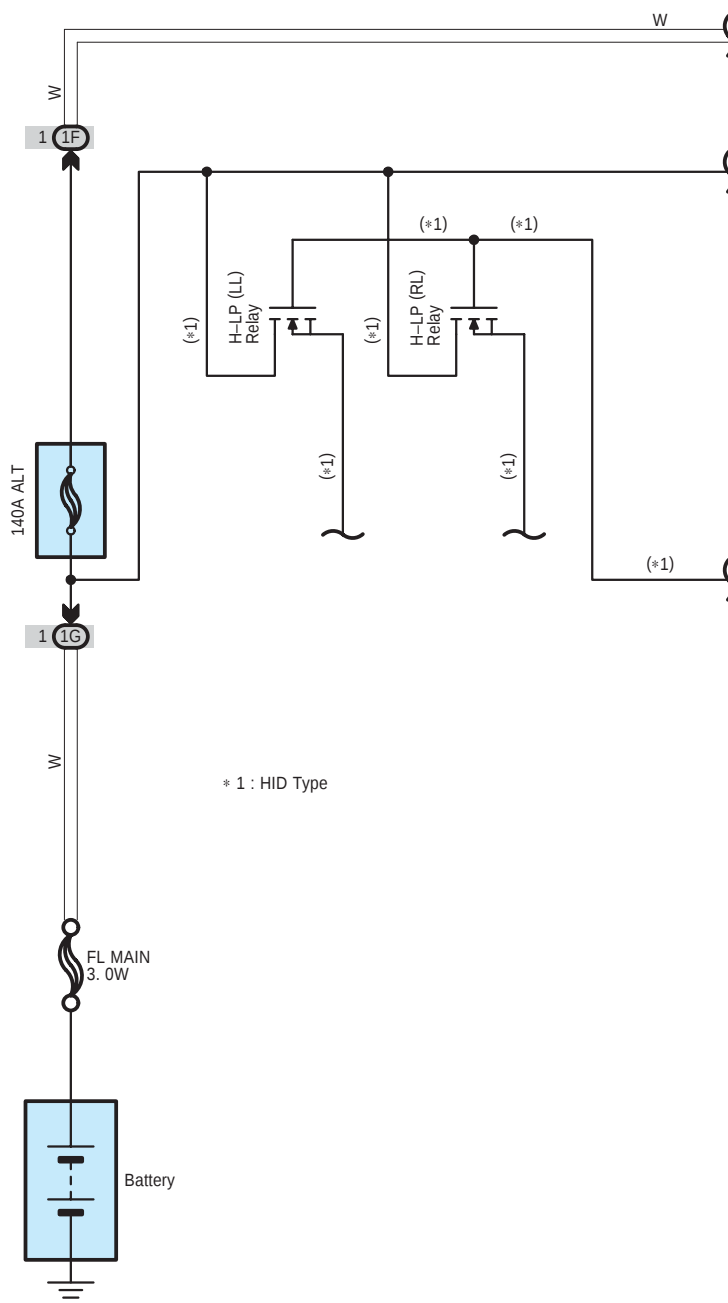
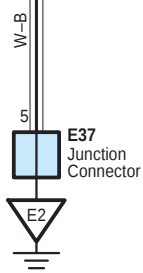
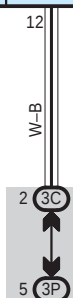


E59(B), E60(C), E61(D)
Main Body ECU



E27
Headlamp Dimmer SW
Assembly

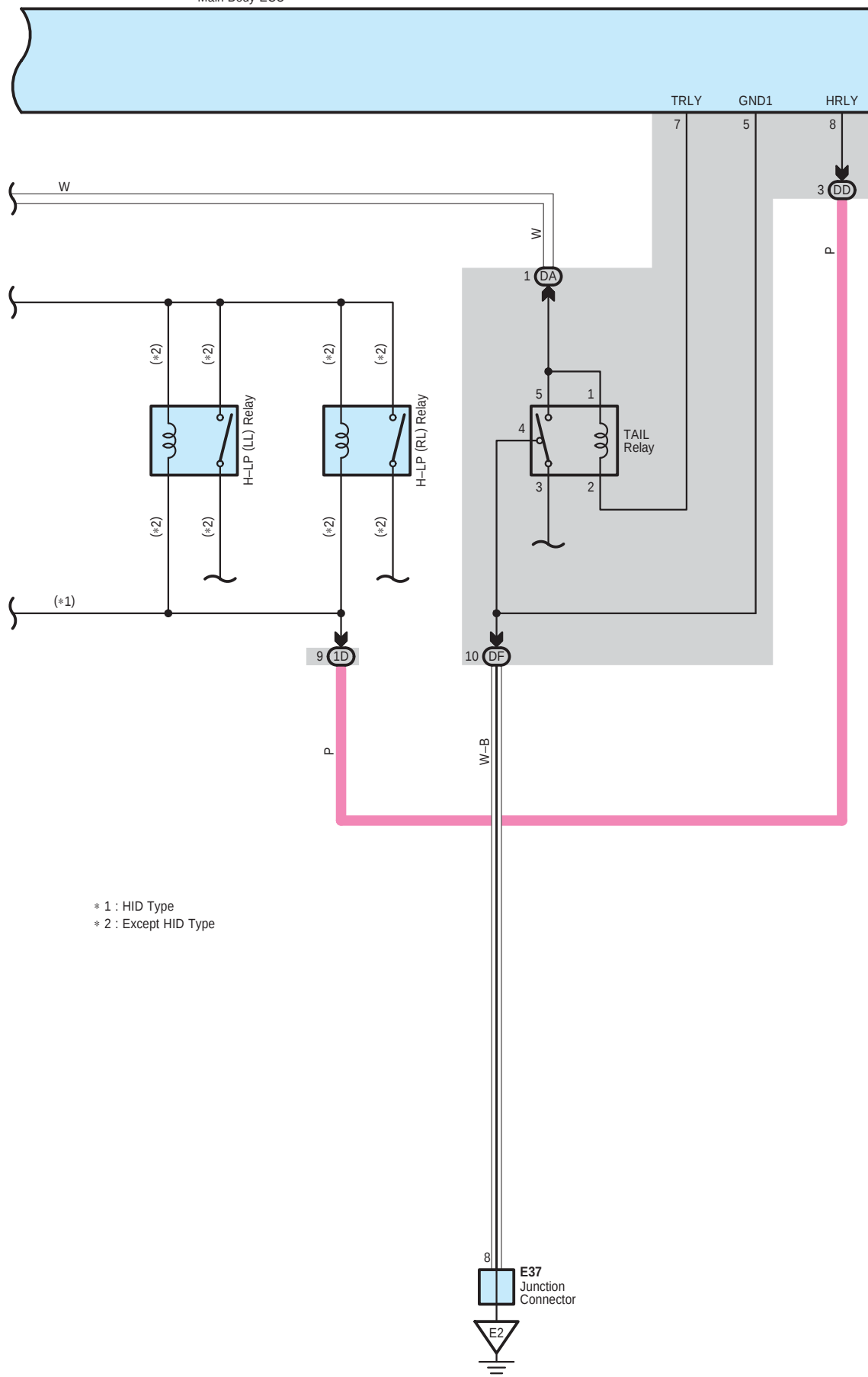
		EL	T	H	A
Light Control SW	OFF				
	Tail	☐	☐		
	Head	☐	☐	☐	
	AUTO	☐			☐



* 1 : HID Type

Automatic Light Control

E59(B), E60(C), E61(D)
Main Body ECU



System Outline

Automatic Light Control Operation

The automatic light control system works when the light control SW is turned to AUTO. The automatic light control sensor detects the brightness around the vehicle. By this function, the system automatically turns the tail lamp and headlamp on if the brightness is below the regular level and turns the tail lamp and headlamp off when the surroundings become brighter than the regular level.

○ : Parts Location

Code	See Page	Code	See Page	Code	See Page
E27	58	E59	B	59	E61 D 59
E37	58	E60	C	59	G3 61

○ : Relay Blocks

Code	See Page	Relay Blocks (Relay Block Location)
1	22	Engine Room R/B (Engine Compartment Left)

○ : Junction Block and Wire Harness Connector

Code	See Page	Junction Block and Wire Harness (Connector Location)
1D	24	Engine Room Main Wire and Engine Room J/B (Engine Compartment Left)
1F	22	
1G		
3A	36	Instrument Panel Wire and J/B No.3 (Instrument Panel Left)
3C		
3E		
3P		
3Q		
DA	30	Engine Room Main Wire and Instrument Panel J/B (Lower Finish Panel)
DD		
DF	30	Instrument Panel Wire and Instrument Panel J/B (Lower Finish Panel)
DG	31	
DM	30	

□ : Connector Joining Wire Harness and Wire Harness

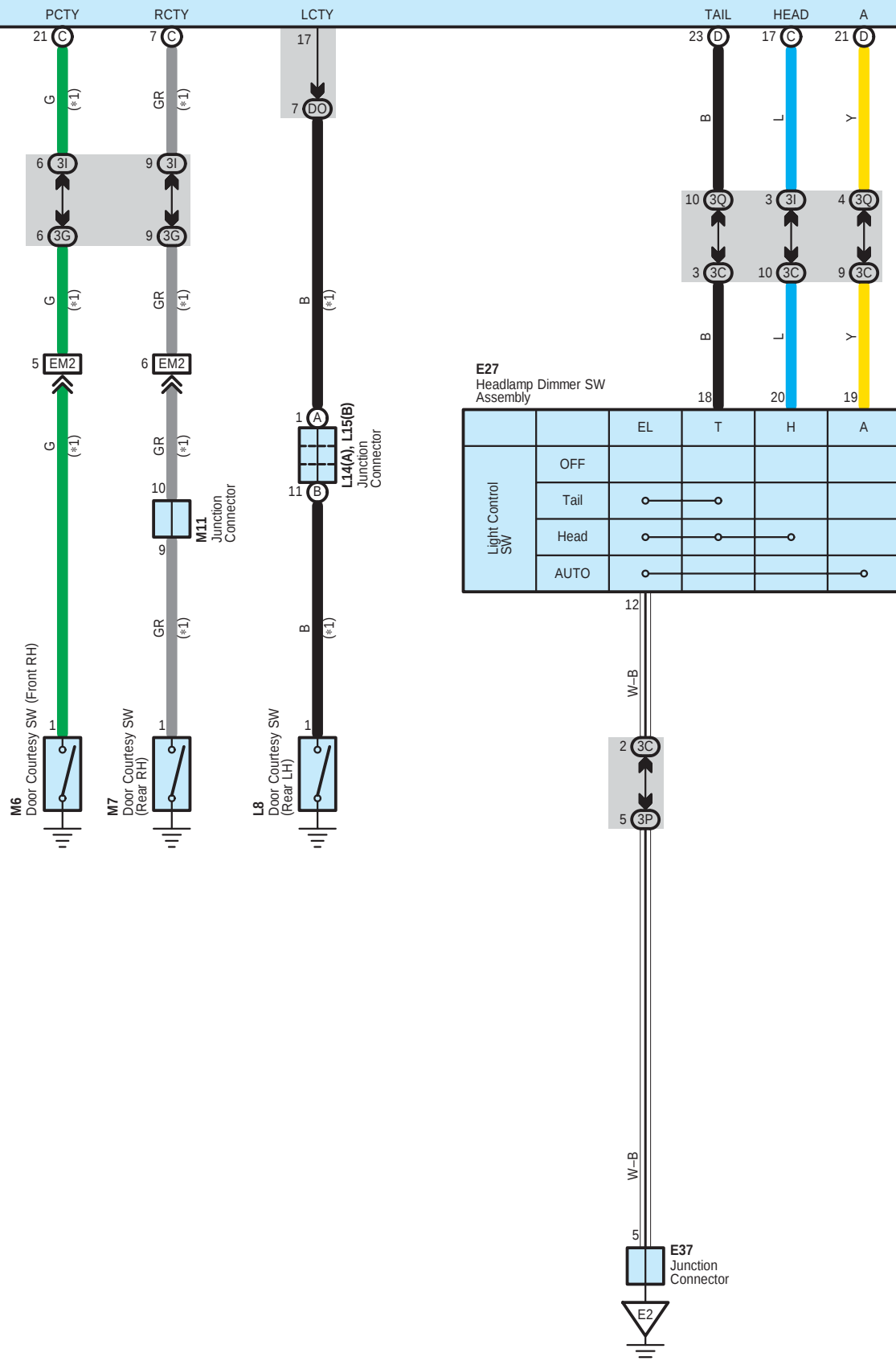
Code	See Page	Joining Wire Harness and Wire Harness (Connector Location)
GE1	69	Instrument Panel No.3 Wire and Instrument Panel Wire (Instrument Panel Center)

▽ : Ground Points

Code	See Page	Ground Points Location
E1	69	Left Side of the Instrument Panel Reinforcement
E2	69	Instrument Panel Brace LH

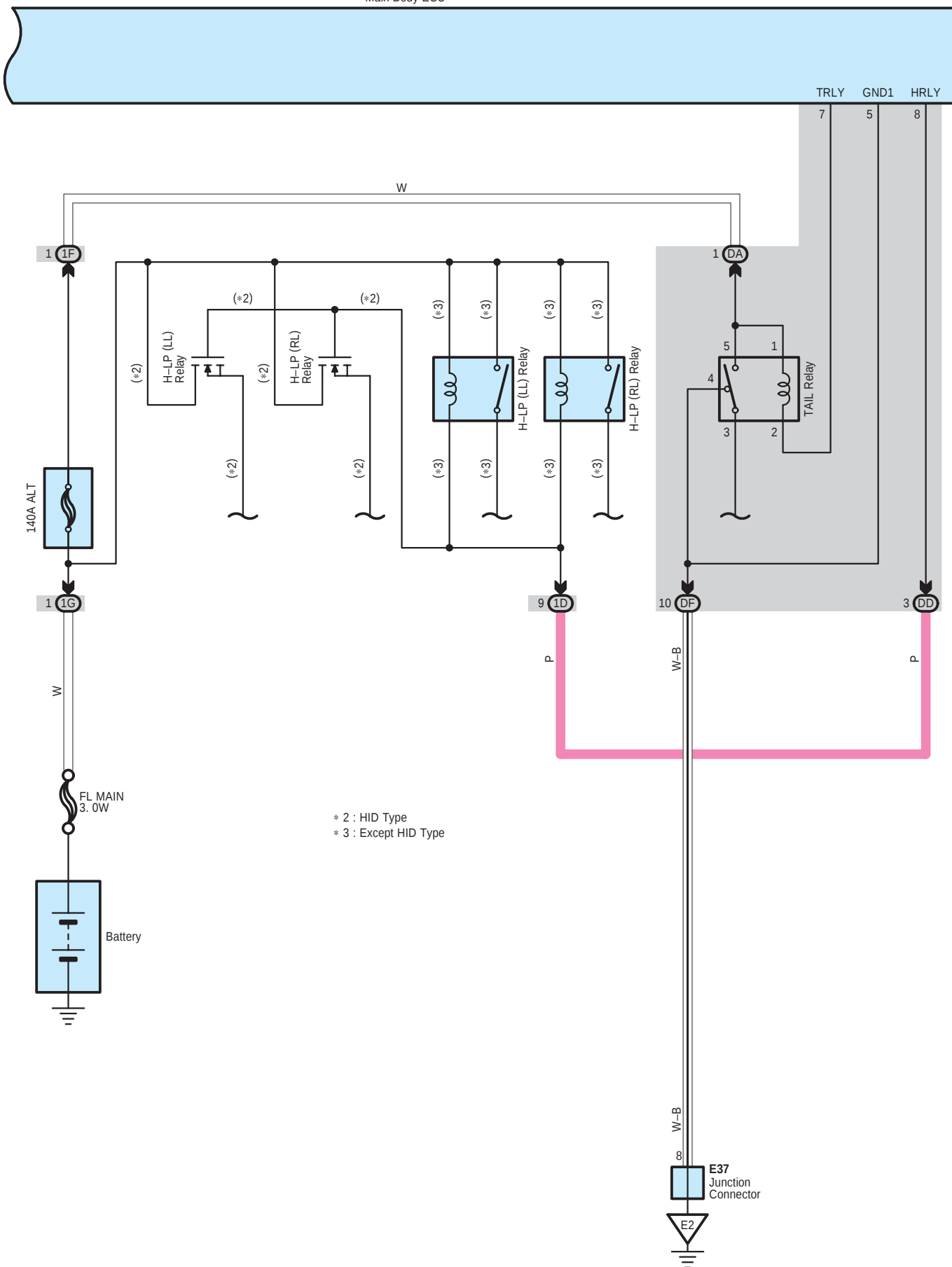


E59(B), E60(C), E61(D)
Main Body ECU



Light Auto Turn Off System

E59(B), E60(C), E61(D)
Main Body ECU



 : Parts Location

Code		See Page		Code		See Page		Code		See Page	
E27		58		E61	D	59		L15	B	62	
E37		58		L7		62		M6		62	
E59	B	59		L8		62		M7		62	
E60	C	59		L14	A	62		M11		62	

 : Relay Blocks

Code	See Page	Relay Blocks (Relay Block Location)
1	22	Engine Room R/B (Engine Compartment Left)

 : Junction Block and Wire Harness Connector

Code	See Page	Junction Block and Wire Harness (Connector Location)
1D	24	Engine Room Main Wire and Engine Room J/B (Engine Compartment Left)
1F	22	
1G		
3A	36	Instrument Panel Wire and J/B No.3 (Instrument Panel Left)
3B		
3C		
3E		
3G		
3I		
3P		
3Q		
DA	30	Engine Room Main Wire and Instrument Panel J/B (Lower Finish Panel)
DD		
DF	30	Instrument Panel Wire and Instrument Panel J/B (Lower Finish Panel)
DG	31	
DM	30	
DO	30	Floor Wire and Instrument Panel J/B (Lower Finish Panel)

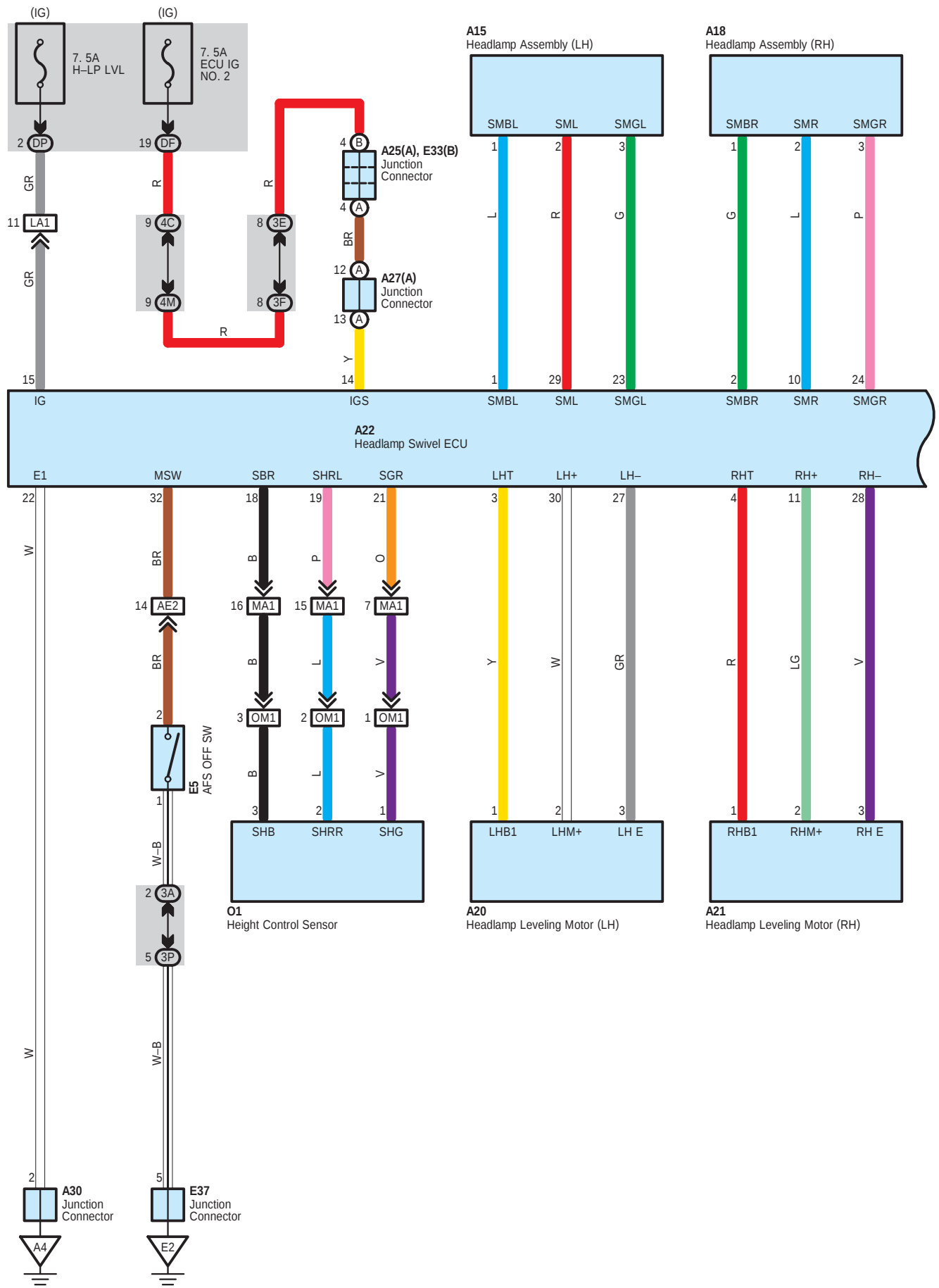
 : Connector Joining Wire Harness and Wire Harness

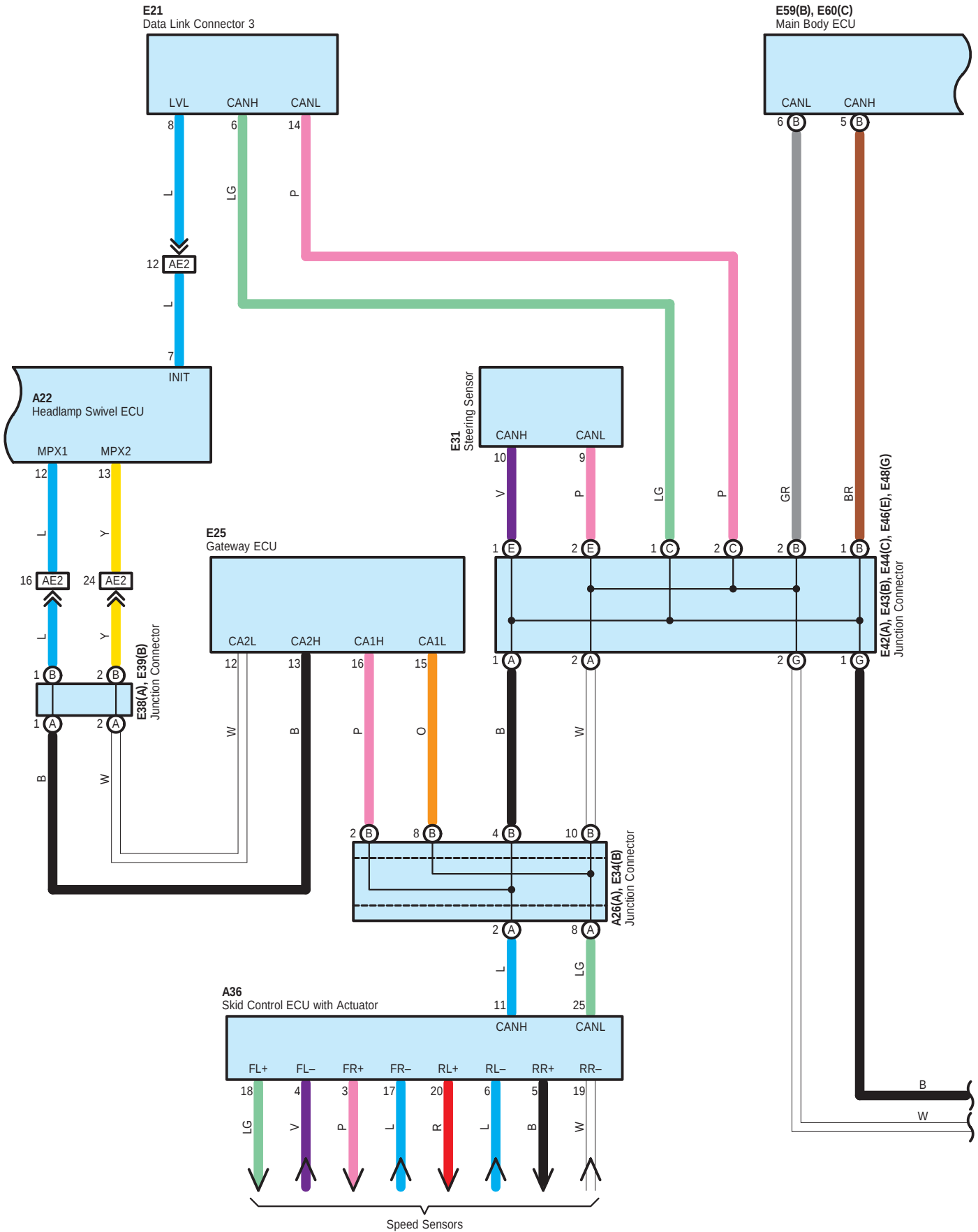
Code	See Page	Joining Wire Harness and Wire Harness (Connector Location)
EL2	69	Instrument Panel Wire and Floor Wire (Left Kick Panel)
EM2	69	Instrument Panel Wire and Floor No.2 Wire (Right Kick Panel)

 : Ground Points

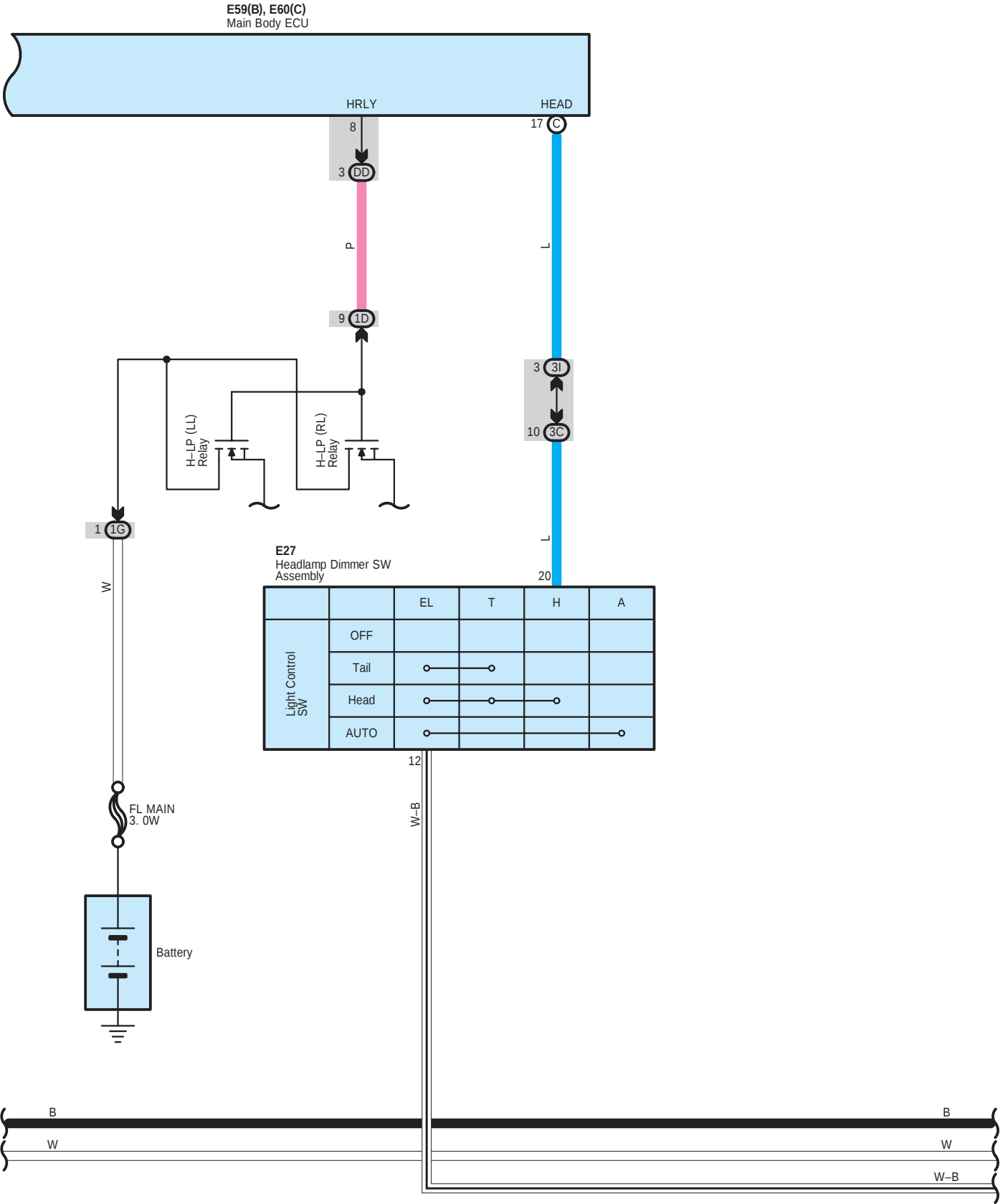
Code	See Page	Ground Points Location
E1	69	Left Side of the Instrument Panel Reinforcement
E2	69	Instrument Panel Brace LH

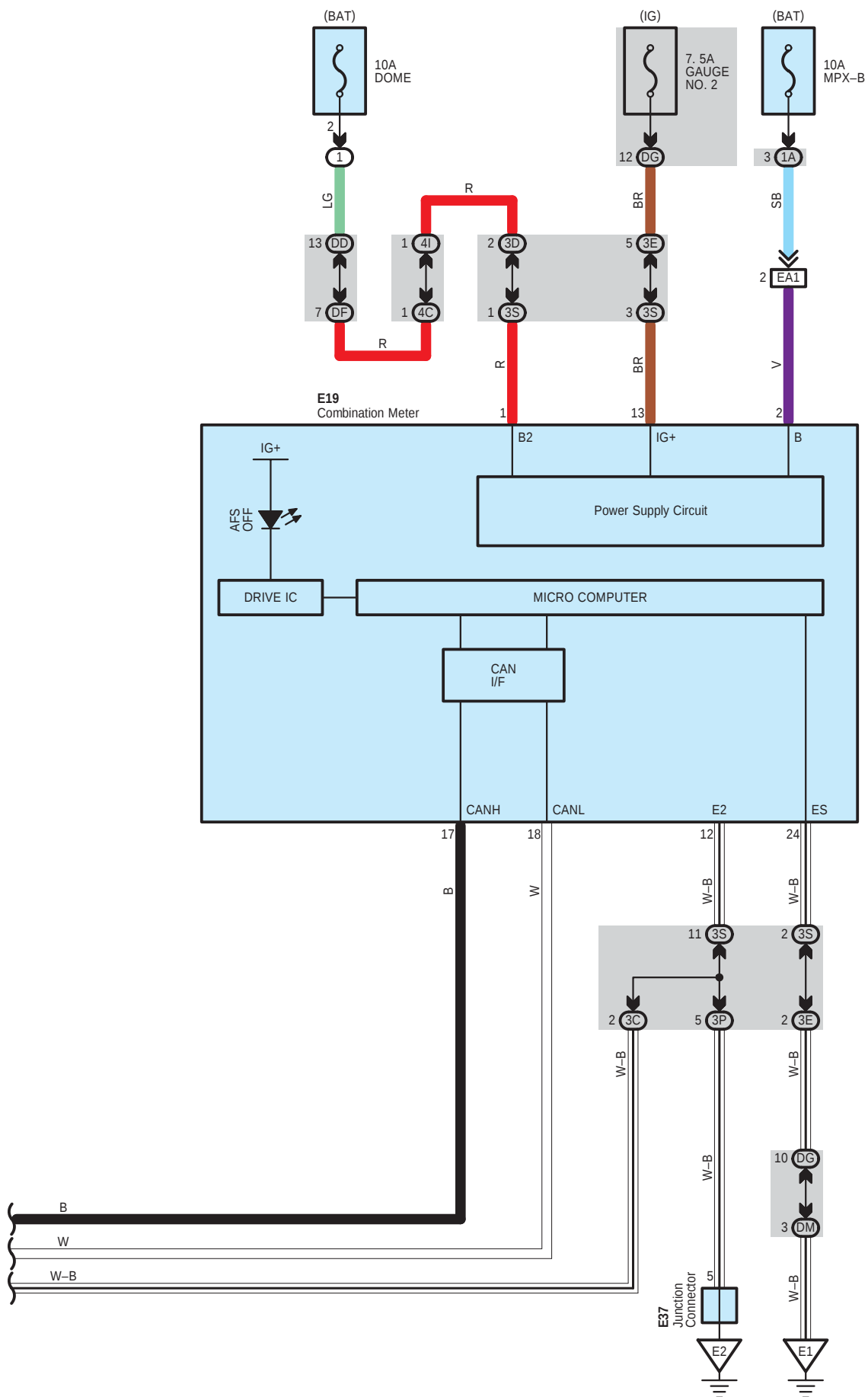
Adaptive Front-Lighting System





Adaptive Front-Lighting System





Adaptive Front-Lighting System

System Outline

The adaptive front-lighting system ensures the optimized light distribution according to the individual driving situation by automatically adjusting horizontal low beam to pattern for specific driving conditions, such as speed and vehicle direction.

○ : Parts Location

Code	See Page	Code	See Page	Code	See Page
A15	54	E5	58	E39	B 46, 58
A18	54	E19	58	E42	A 48, 59
A20	54	E21	58	E43	B 48, 59
A21	54	E25	58	E44	C 48, 59
A22	60	E27	58	E46	E 48, 59
A25	A 60	E31	58	E48	G 48, 59
A26	A 60	E33	B 58	E59	B 59
A27	A 60	E34	B 58	E60	C 59
A30	54	E37	58	O1	64
A36	55	E38	A 46, 58		

○ : Relay Blocks

Code	See Page	Relay Blocks (Relay Block Location)
1	22	Engine Room R/B (Engine Compartment Left)

○ : Junction Block and Wire Harness Connector

Code	See Page	Junction Block and Wire Harness (Connector Location)
1A	24	Engine Room Main Wire and Engine Room J/B (Engine Compartment Left)
1D	24	
1G	22	
3A	36	Instrument Panel Wire and J/B No.3 (Instrument Panel Left)
3C		
3D		
3E		
3F		
3I		
3P		
3S		
4C	42	Instrument Panel Wire and J/B No.4 (Instrument Panel Right)
4I		
4M		
DD	30	Engine Room Main Wire and Instrument Panel J/B (Lower Finish Panel)
DF	30	Instrument Panel Wire and Instrument Panel J/B (Lower Finish Panel)
DG	31	
DM	30	
DP	30	Floor Wire and Instrument Panel J/B (Lower Finish Panel)

□ : Connector Joining Wire Harness and Wire Harness

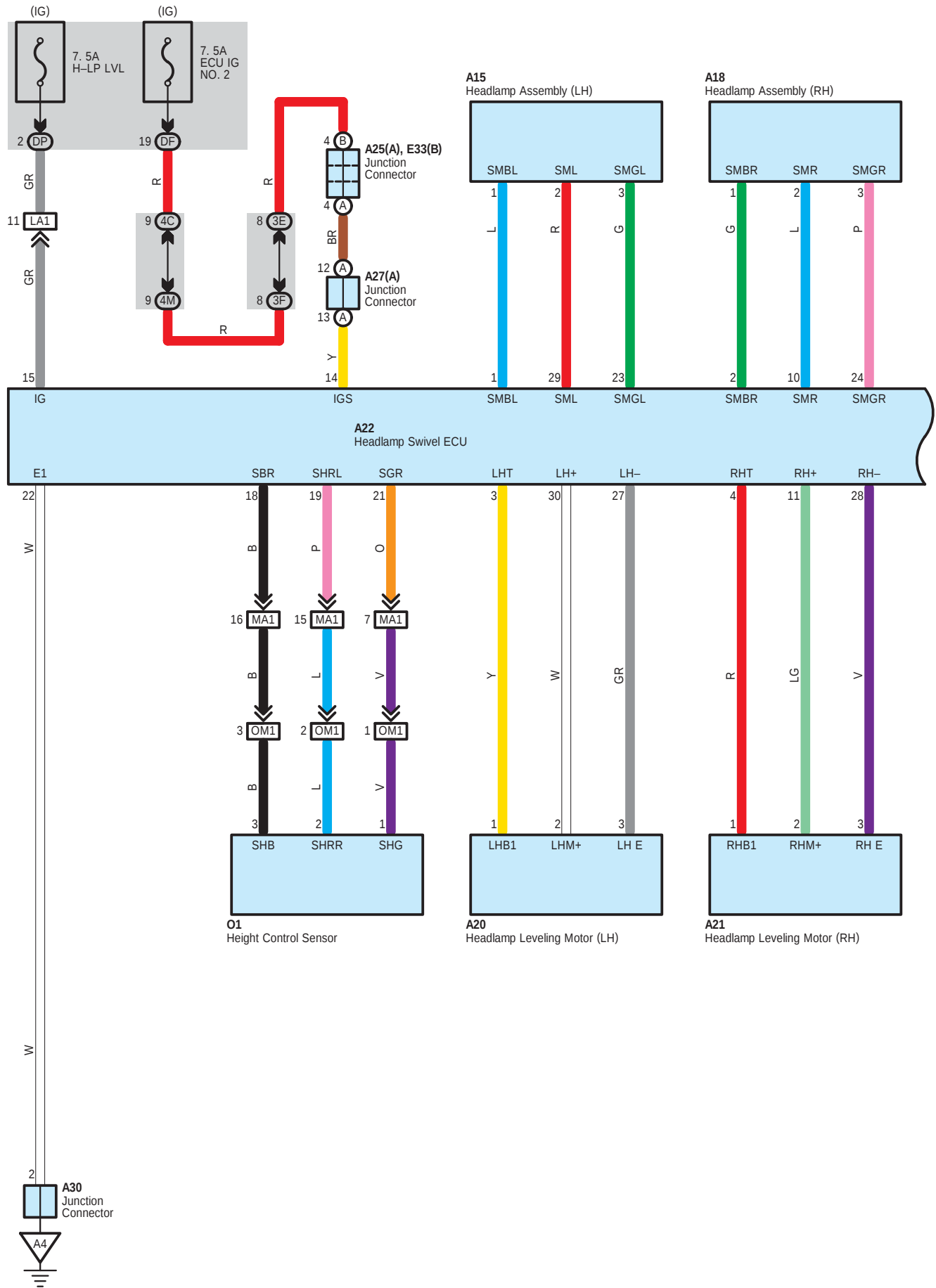
Code	See Page	Joining Wire Harness and Wire Harness (Connector Location)
AE2	69	Engine Room Main Wire and Instrument Panel Wire (Instrument Panel Left)
EA1	69	Instrument Panel Wire and Engine Room Main Wire (Left Kick Panel)
LA1	69	Floor Wire and Engine Room Main Wire (Cowl Side Left)
MA1	69	Floor No.2 Wire and Engine Room Main Wire (Cowl Side Right)
OM1	70	Floor No.4 Wire and Floor No.2 Wire (Under the Rear Seat)



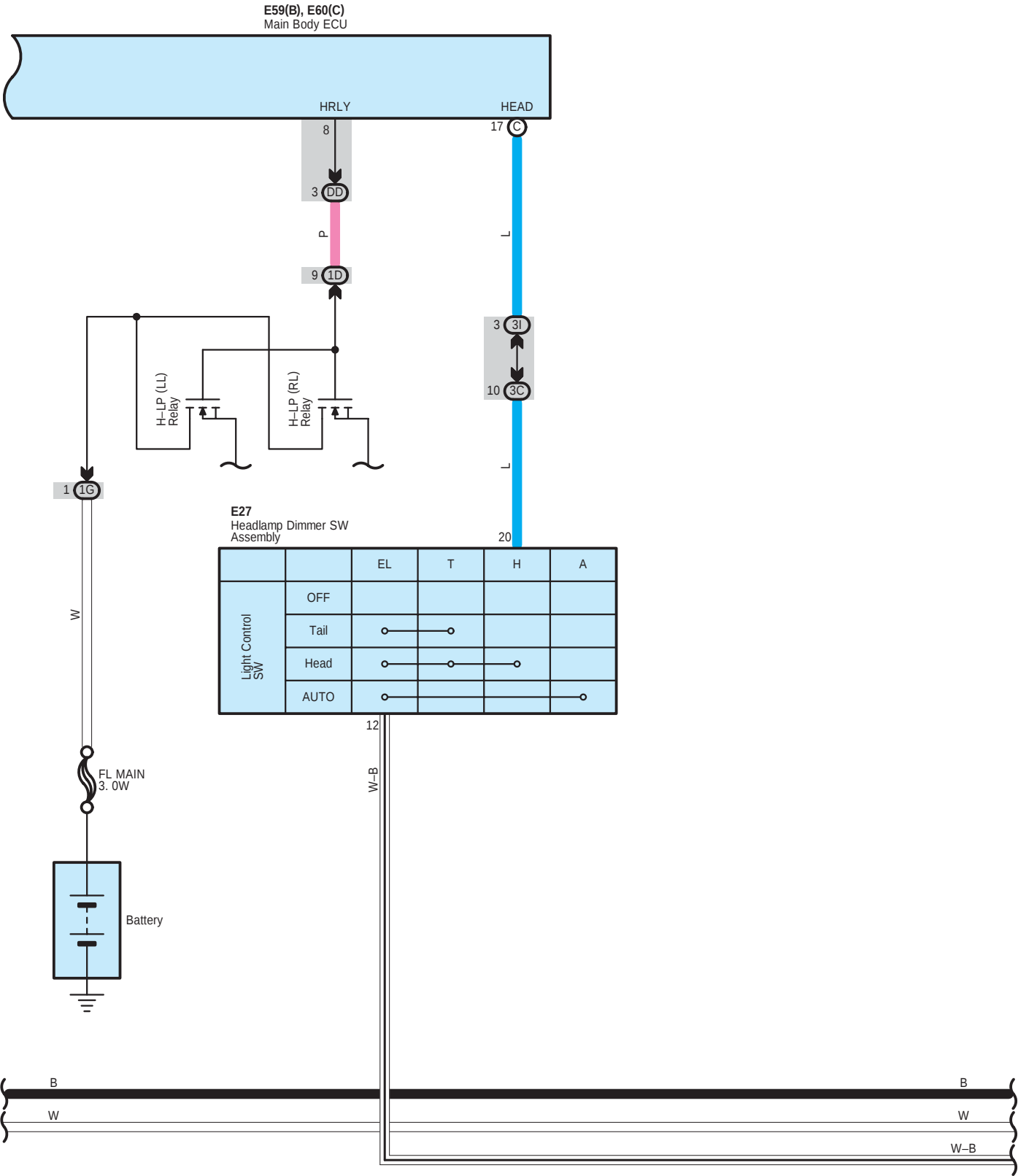
: **Ground Points**

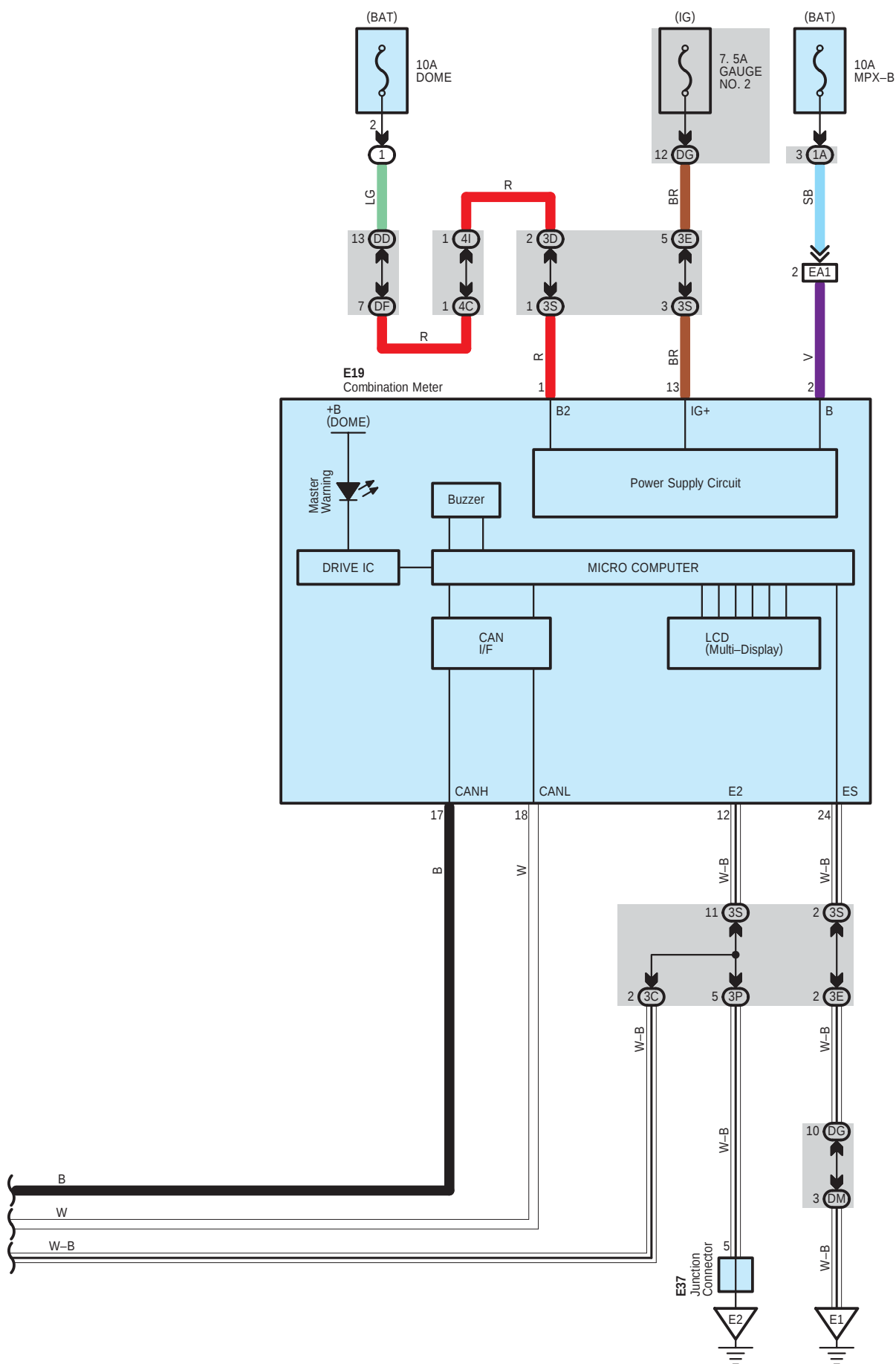
Code	See Page	Ground Points Location
A4	68	Front Right Fender Apron
E1	69	Left Side of the Instrument Panel Reinforcement
E2	69	Instrument Panel Brace LH

Headlight Beam Level Control without Adaptive Front-Lighting System



Headlight Beam Level Control without Adaptive Front-Lighting System





Headlight Beam Level Control without Adaptive Front-Lighting System

: Parts Location

Code	See Page	Code	See Page	Code	See Page
A15	54	A36	55	E39	B 46, 58
A18	54	E19	58	E42	A 48, 59
A20	54	E21	58	E43	B 48, 59
A21	54	E25	58	E44	C 48, 59
A22	60	E27	58	E48	G 48, 59
A25	A 60	E33	B 58	E59	B 59
A26	A 60	E34	B 58	E60	C 59
A27	A 60	E37	58	O1	64
A30	54	E38	A 46, 58		

: Relay Blocks

Code	See Page	Relay Blocks (Relay Block Location)
1	22	Engine Room R/B (Engine Compartment Left)

: Junction Block and Wire Harness Connector

Code	See Page	Junction Block and Wire Harness (Connector Location)
1A	24	Engine Room Main Wire and Engine Room J/B (Engine Compartment Left)
1D		
1G		
3C	36	Instrument Panel Wire and J/B No.3 (Instrument Panel Left)
3D		
3E		
3F		
3I		
3P		
3S		
4C	42	Instrument Panel Wire and J/B No.4 (Instrument Panel Right)
4I		
4M		
DD	30	Engine Room Main Wire and Instrument Panel J/B (Lower Finish Panel)
DF	30	Instrument Panel Wire and Instrument Panel J/B (Lower Finish Panel)
DG	31	
DM	30	
DP	30	Floor Wire and Instrument Panel J/B (Lower Finish Panel)

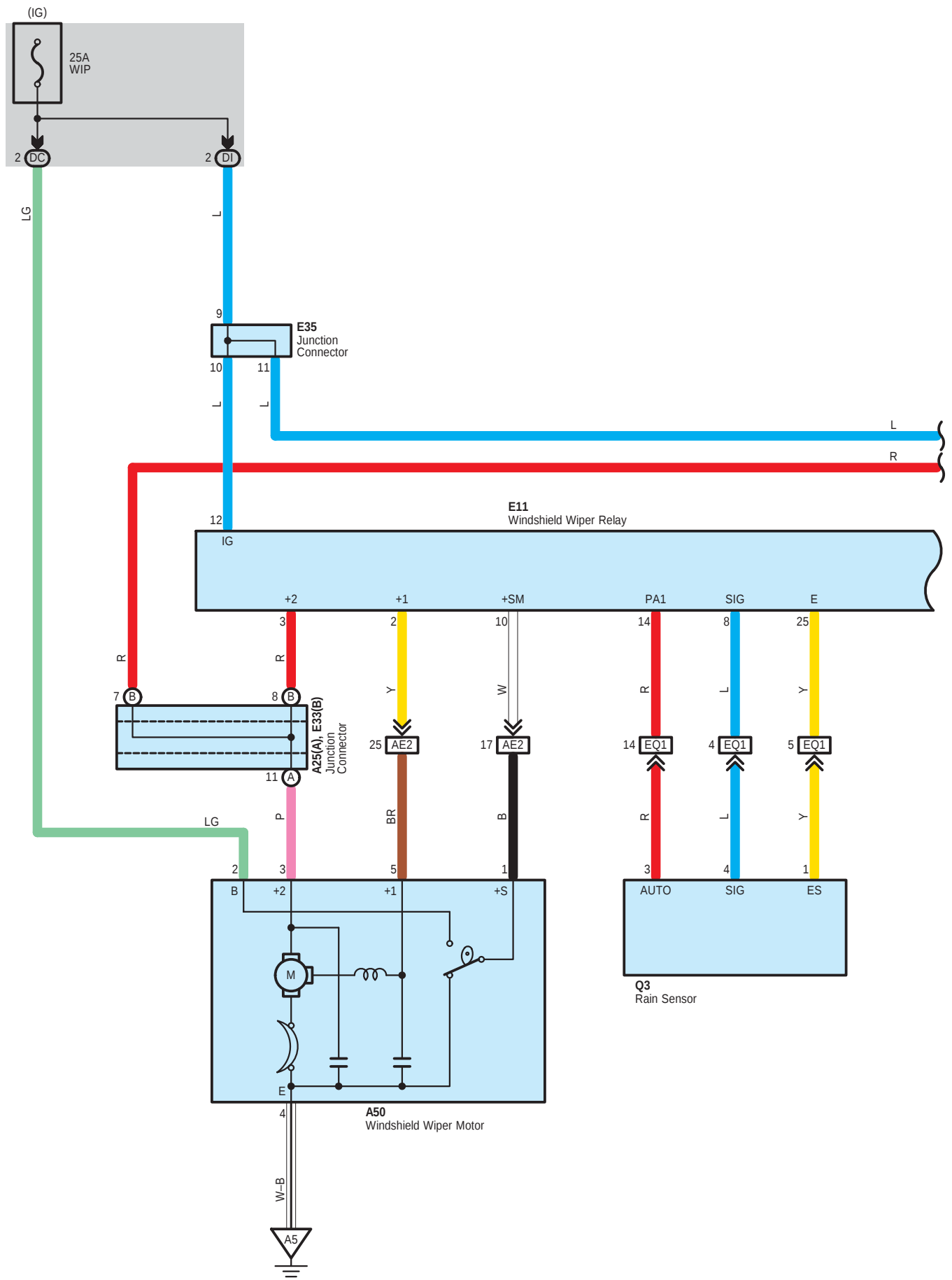
: Connector Joining Wire Harness and Wire Harness

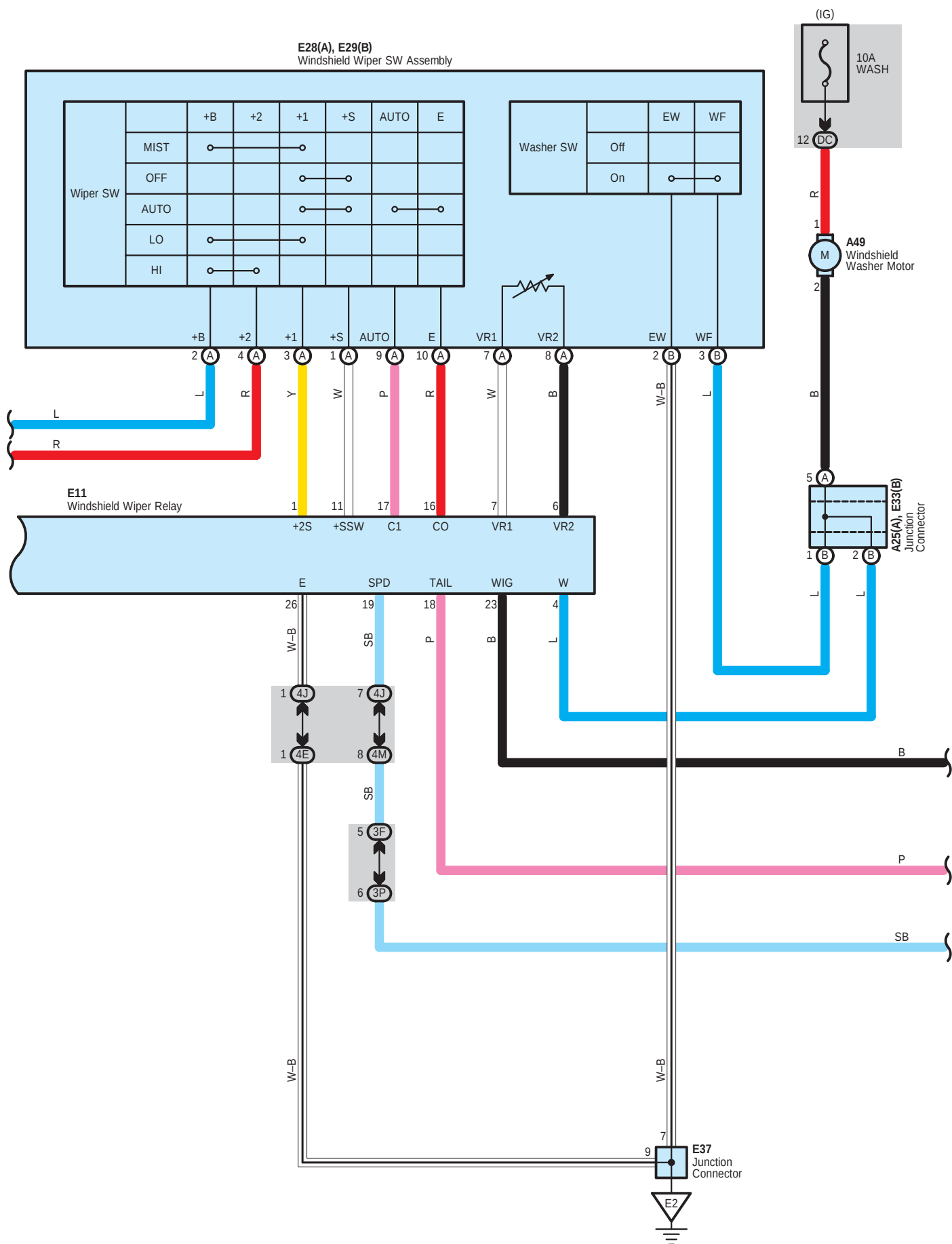
Code	See Page	Joining Wire Harness and Wire Harness (Connector Location)
AE2	69	Engine Room Main Wire and Instrument Panel Wire (Instrument Panel Left)
EA1	69	Instrument Panel Wire and Engine Room Main Wire (Left Kick Panel)
LA1	69	Floor Wire and Engine Room Main Wire (Cowl Side Left)
MA1	69	Floor No.2 Wire and Engine Room Main Wire (Cowl Side Right)
OM1	70	Floor No.4 Wire and Floor No.2 Wire (Under the Rear Seat)

: Ground Points

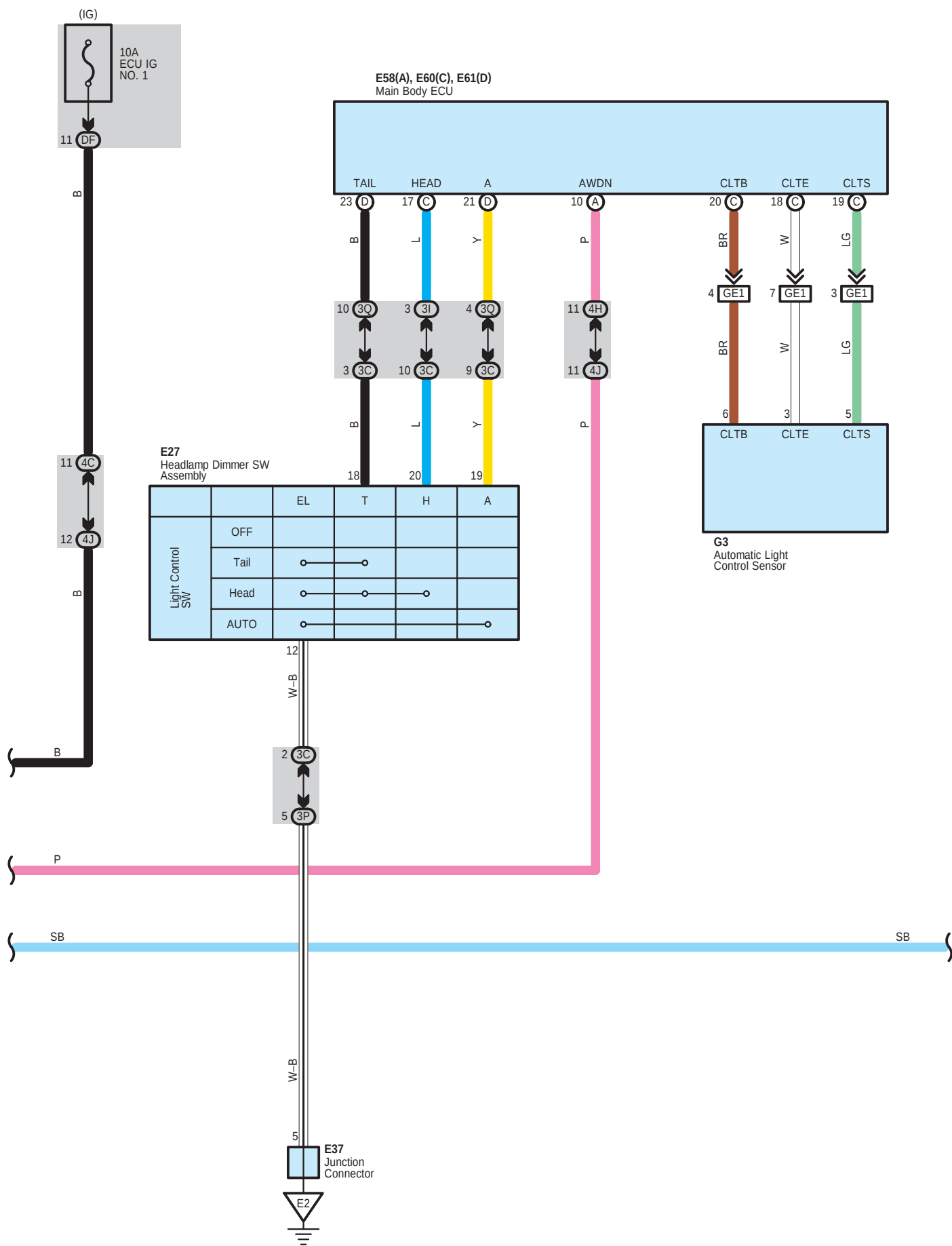
Code	See Page	Ground Points Location
A4	68	Front Right Fender Apron
E1	69	Left Side of the Instrument Panel Reinforcement
E2	69	Instrument Panel Brace LH

Wiper and Washer with Auto Wiper System





Wiper and Washer with Auto Wiper System



Wiper and Washer with Auto Wiper System

: Parts Location

Code		See Page	Code		See Page	Code		See Page
A25	A	60	E20	B	58	E37		58
A36		55	E27		58	E58	A	59
A49		55	E28	A	58	E60	C	59
A50		55	E29	B	58	E61	D	59
E11		58	E33	B	58	G3		61
E19	A	58	E35		58	Q3		64

: Relay Blocks

Code	See Page	Relay Blocks (Relay Block Location)
1	22	Engine Room R/B (Engine Compartment Left)

: Junction Block and Wire Harness Connector

Code	See Page	Junction Block and Wire Harness (Connector Location)
1A	24	Engine Room Main Wire and Engine Room J/B (Engine Compartment Left)
3C	36	Instrument Panel Wire and J/B No.3 (Instrument Panel Left)
3D		
3E		
3F		
3I		
3J		
3P		
3Q		
3S		
4C	42	Instrument Panel Wire and J/B No.4 (Instrument Panel Right)
4E		
4H		
4I		
4J		
4M		
DC	30	Engine Room Main Wire and Instrument Panel J/B (Lower Finish Panel)
DD	30	Instrument Panel Wire and Instrument Panel J/B (Lower Finish Panel)
DF	30	
DG	31	
DI	31	
DM	30	

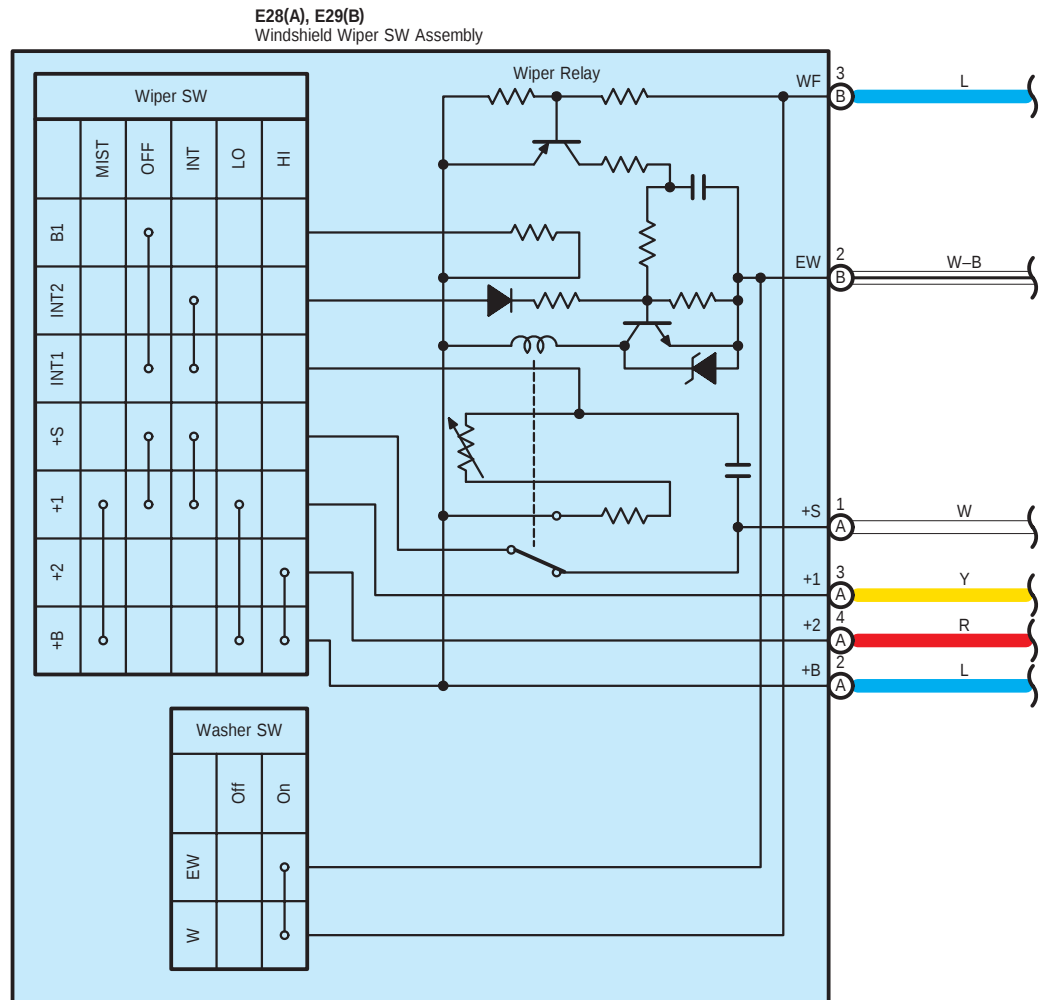
: Connector Joining Wire Harness and Wire Harness

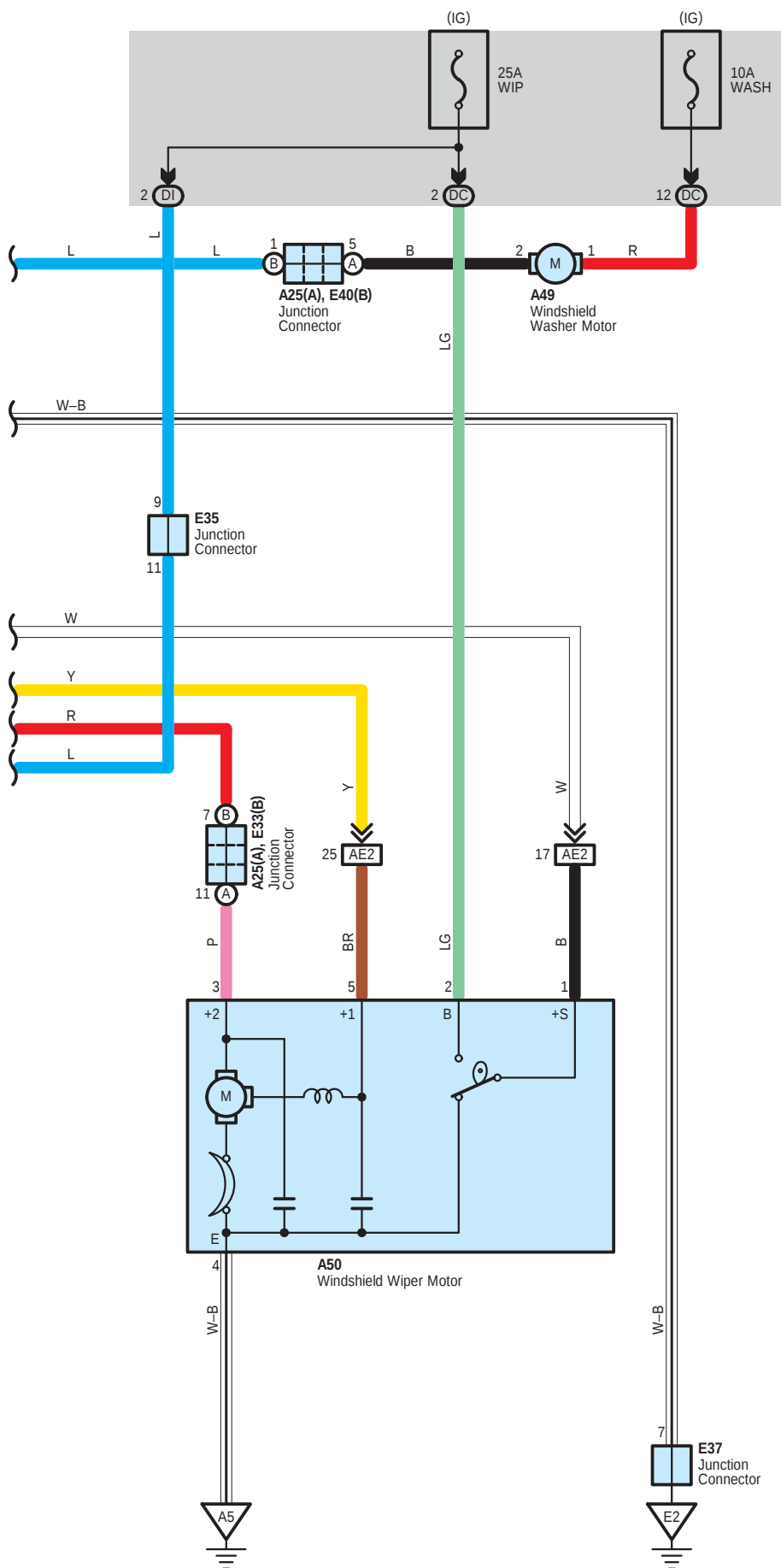
Code	See Page	Joining Wire Harness and Wire Harness (Connector Location)
AE1	69	Engine Room Main Wire and Instrument Panel Wire (Instrument Panel Right)
AE2	69	Engine Room Main Wire and Instrument Panel Wire (Instrument Panel Left)
EA1	69	Instrument Panel Wire and Engine Room Main Wire (Left Kick Panel)
EQ1	69	Instrument Panel Wire and Roof Wire (Front Pillar LH)
GE1	69	Instrument Panel No.3 Wire and Instrument Panel Wire (Instrument Panel Center)

: Ground Points

Code	See Page	Ground Points Location
A5	69	Cowl Side Left
E1	69	Left Side of the Instrument Panel Reinforcement
E2	69	Instrument Panel Brace LH

Wiper and Washer without Auto Wiper System





Wiper and Washer without Auto Wiper System

: Parts Location

Code		See Page	Code		See Page	Code		See Page
A25	A	60	E28	A	58	E35		58
A49		55	E29	B	58	E37		58
A50		55	E33	B	58	E40	B	46, 58

: Junction Block and Wire Harness Connector

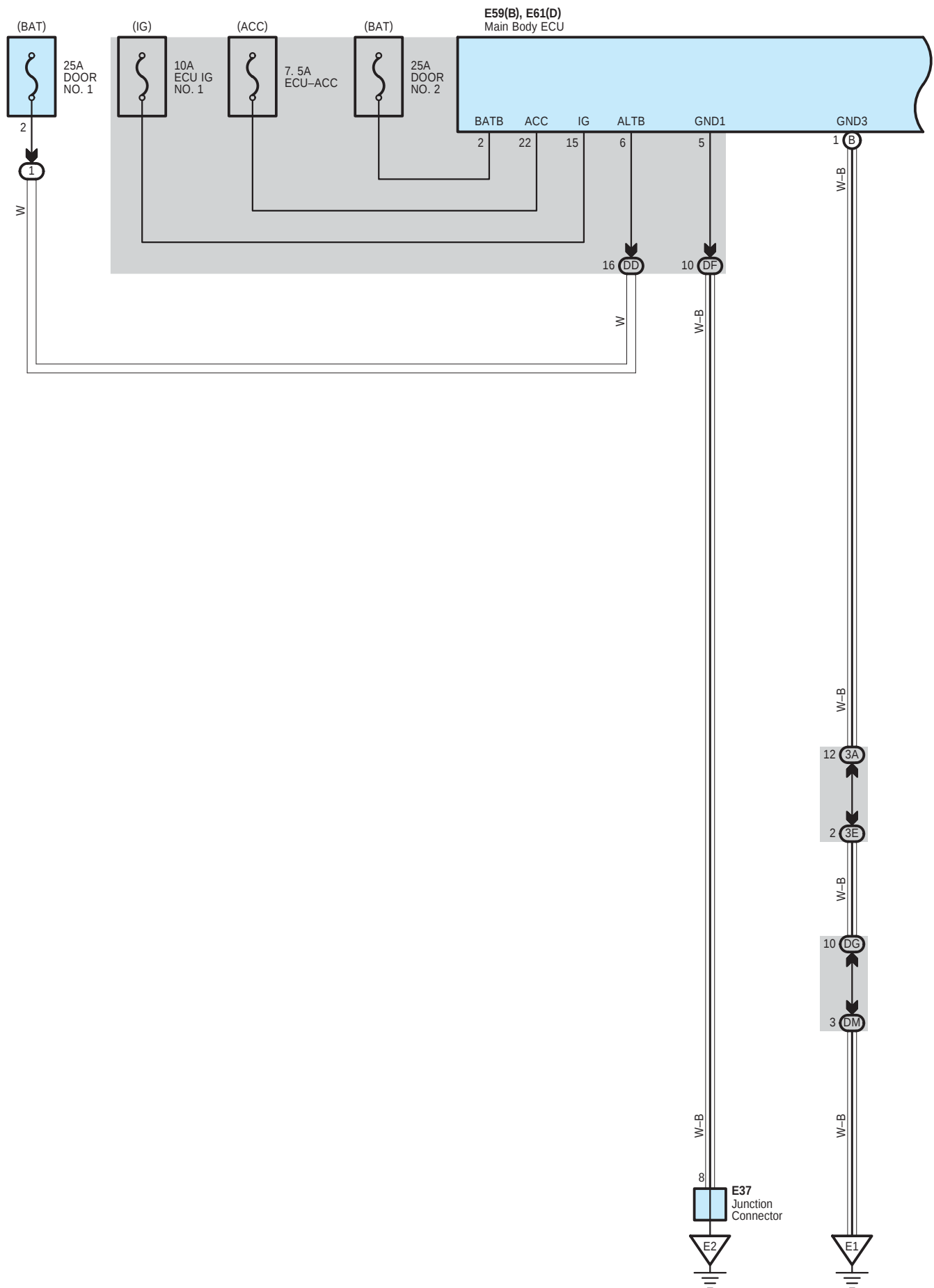
Code	See Page	Junction Block and Wire Harness (Connector Location)
DC	30	Engine Room Main Wire and Instrument Panel J/B (Lower Finish Panel)
DI	31	Instrument Panel Wire and Instrument Panel J/B (Lower Finish Panel)

: Connector Joining Wire Harness and Wire Harness

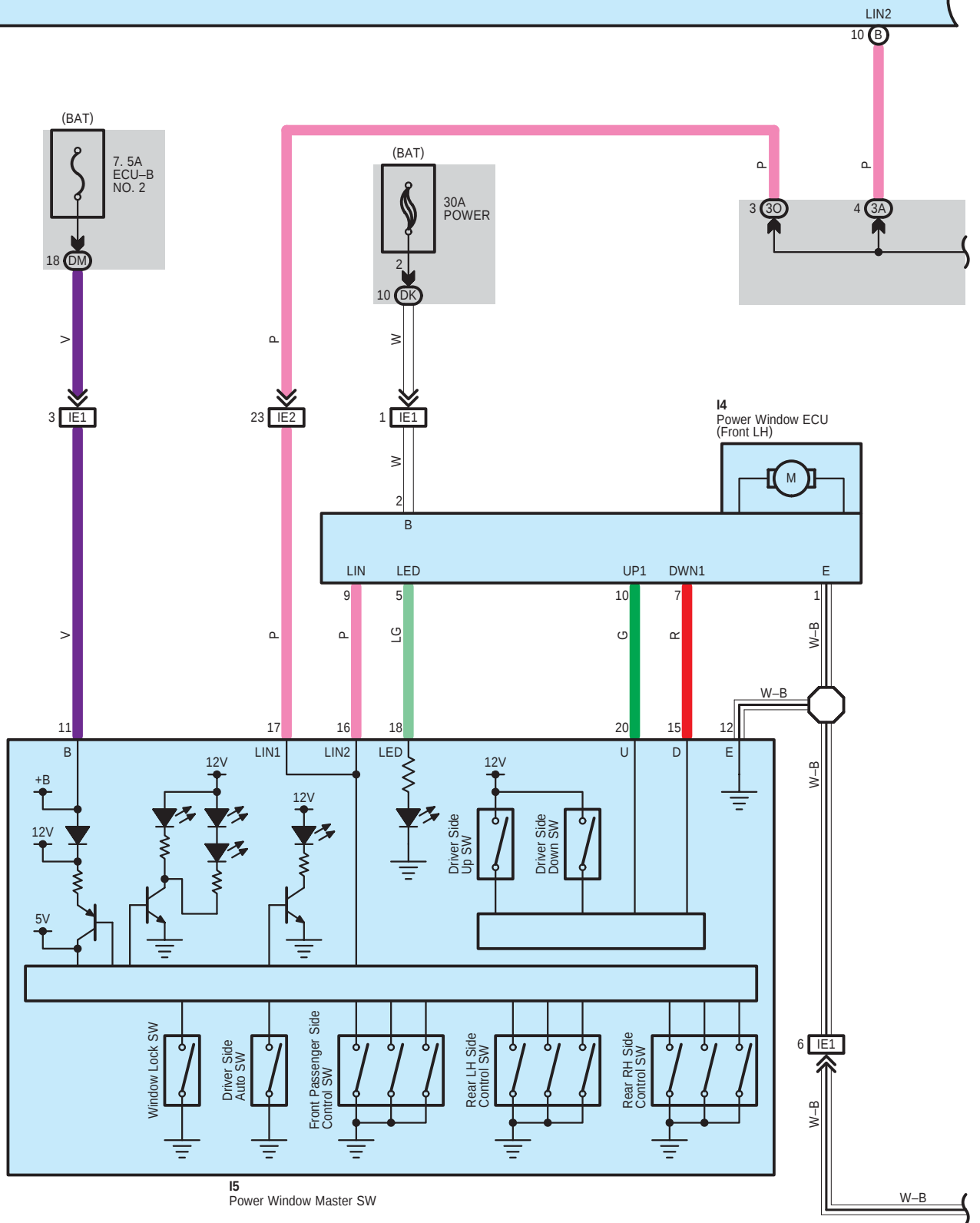
Code	See Page	Joining Wire Harness and Wire Harness (Connector Location)
AE2	69	Engine Room Main Wire and Instrument Panel Wire (Instrument Panel Left)

: Ground Points

Code	See Page	Ground Points Location
A5	69	Cowl Side Left
E2	69	Instrument Panel Brace LH

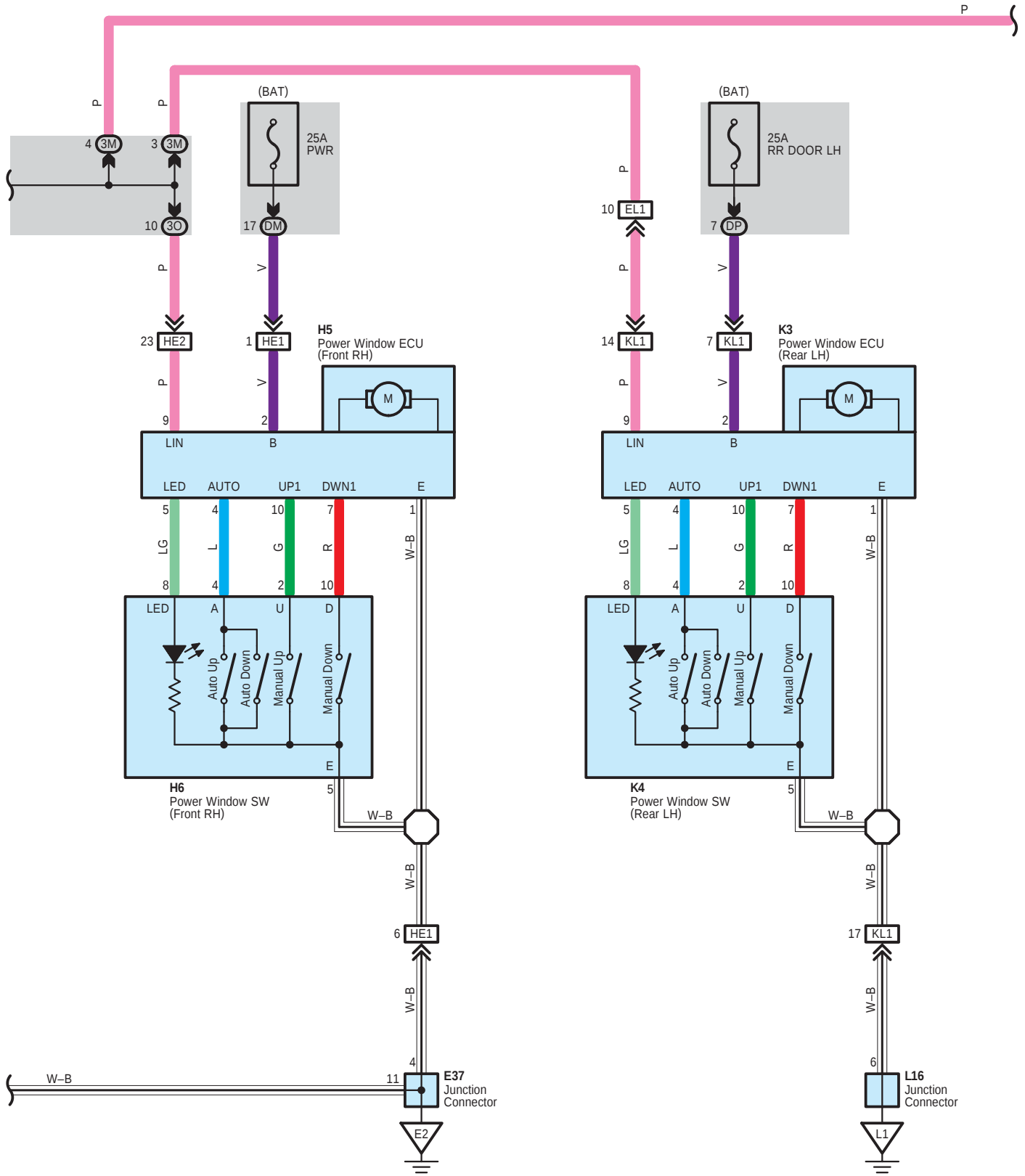


E59(B), E61(D)
Main Body ECU

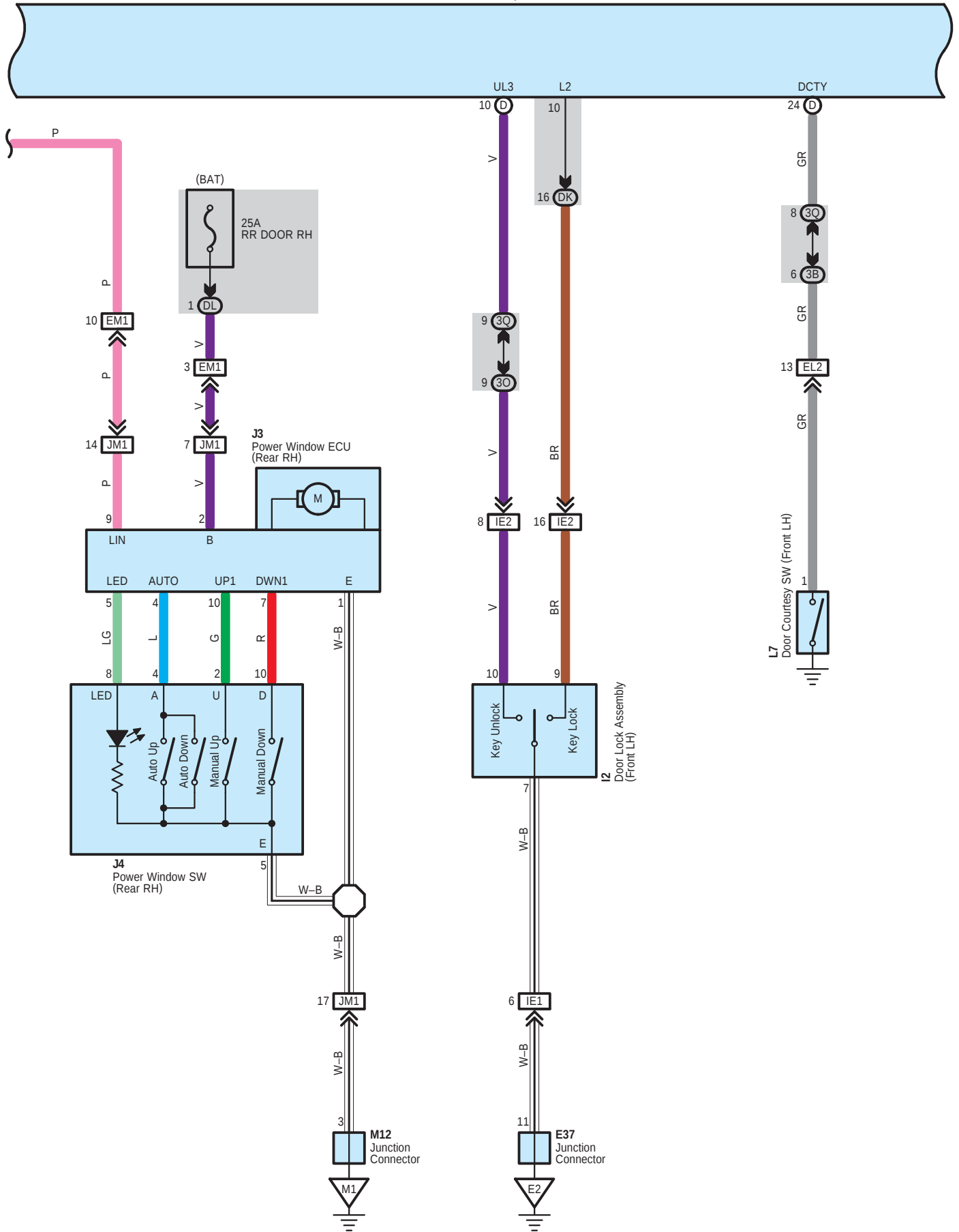


Power Window

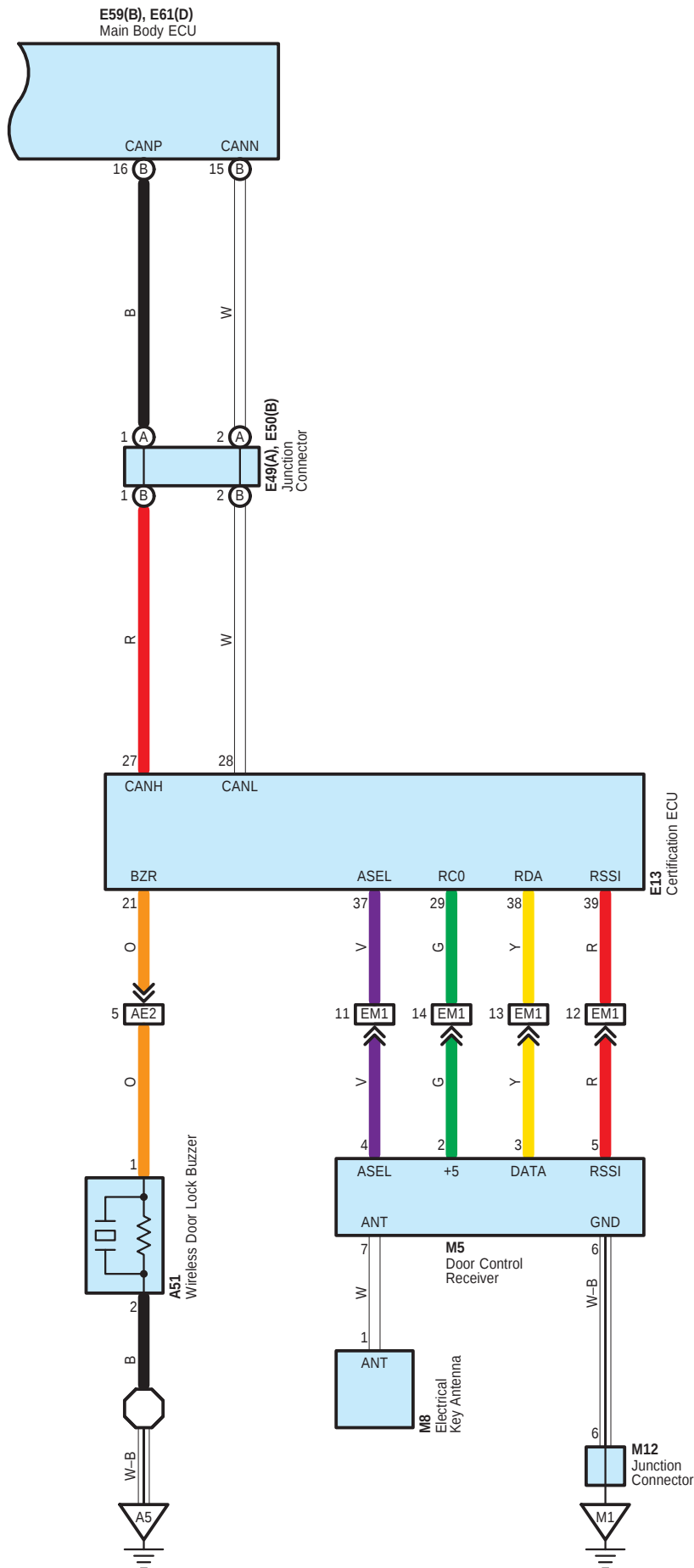
E59(B), E61(D)
Main Body ECU



E59(B), E61(D)
Main Body ECU



Power Window



 : Parts Location

Code	See Page	Code	See Page	Code	See Page
A51	55	H5	63	K3	63
E13	58	H6	63	K4	63
E37	58	I2	63	L7	62
E49	A	I4	63	L16	62
E50	B	I5	63	M5	62
E59	B	J3	63	M8	62
E61	D	J4	63	M12	62

 : Relay Blocks

Code	See Page	Relay Blocks (Relay Block Location)
1	22	Engine Room R/B (Engine Compartment Left)

 : Junction Block and Wire Harness Connector

Code	See Page	Junction Block and Wire Harness (Connector Location)
3A	36	Instrument Panel Wire and J/B No.3 (Instrument Panel Left)
3B		
3E		
3M		
3O		
3Q		
DD	30	Engine Room Main Wire and Instrument Panel J/B (Lower Finish Panel)
DF	30	Instrument Panel Wire and Instrument Panel J/B (Lower Finish Panel)
DG	31	
DK	30	
DL		
DM		
DP	30	Floor Wire and Instrument Panel J/B (Lower Finish Panel)

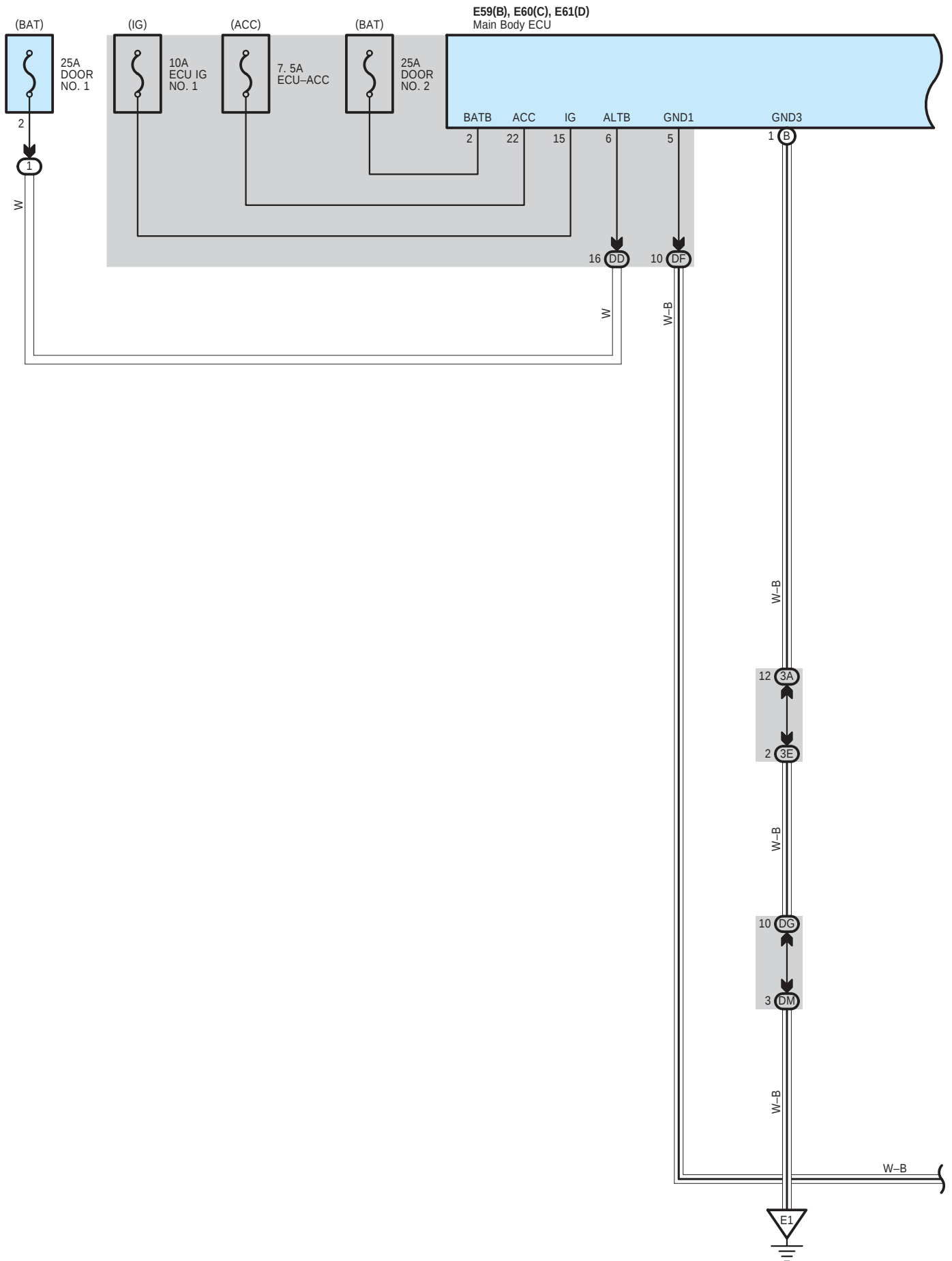
 : Connector Joining Wire Harness and Wire Harness

Code	See Page	Joining Wire Harness and Wire Harness (Connector Location)
AE2	69	Engine Room Main Wire and Instrument Panel Wire (Instrument Panel Left)
EL1	69	Instrument Panel Wire and Floor Wire (Left Kick Panel)
EL2		
EM1	69	Instrument Panel Wire and Floor No.2 Wire (Right Kick Panel)
HE1	69	Front Door RH Wire and Instrument Panel Wire (Right Kick Panel)
HE2		
IE1	69	Front Door LH Wire and Instrument Panel Wire (Left Kick Panel)
IE2		
JM1	70	Rear Door No.1 Wire and Floor No.2 Wire (Center Pillar RH)
KL1	70	Rear Door No.2 Wire and Floor Wire (Center Pillar LH)

 : Ground Points

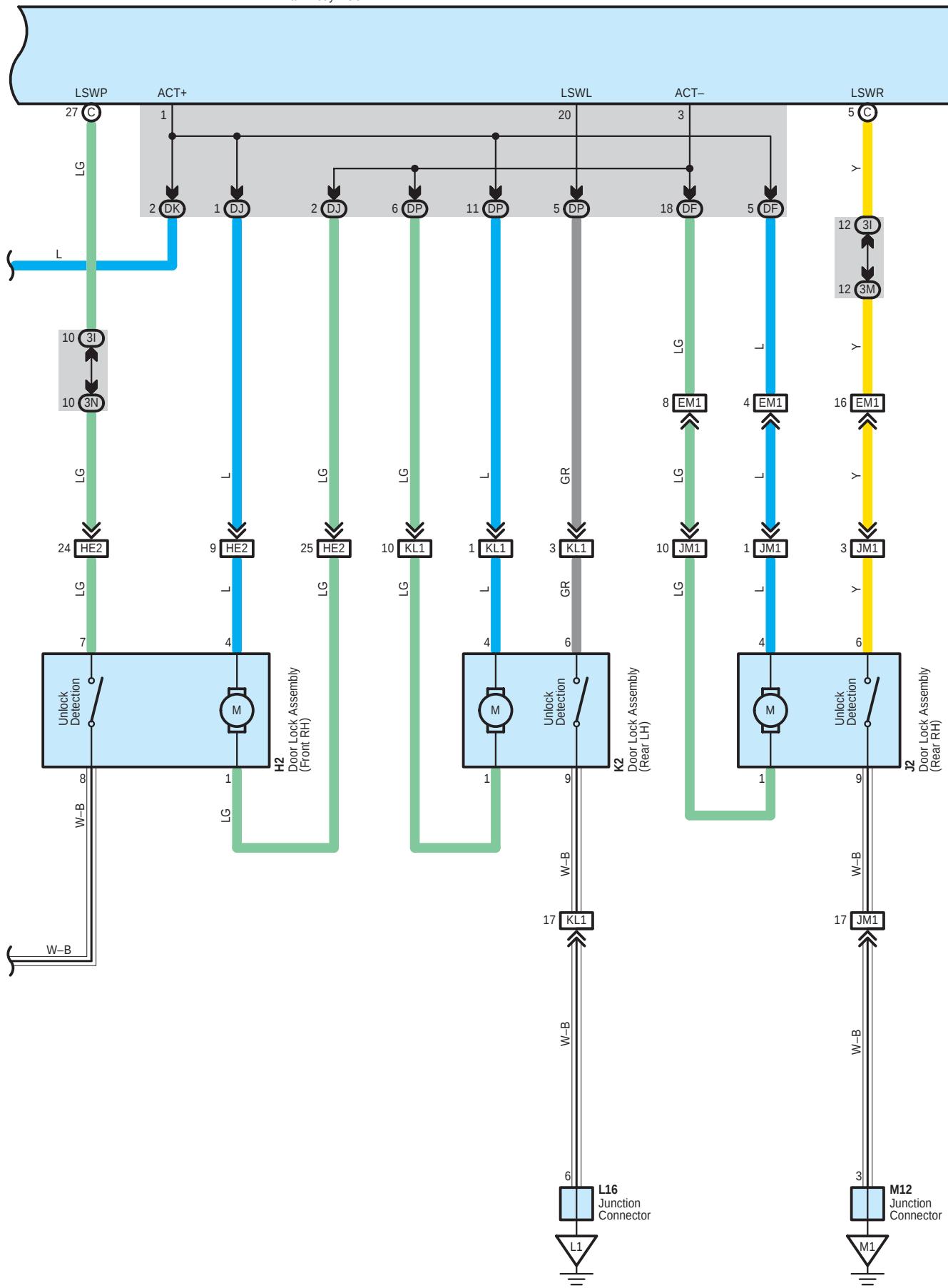
Code	See Page	Ground Points Location
A5	69	Cowl Side Left
E1	69	Left Side of the Instrument Panel Reinforcement
E2	69	Instrument Panel Brace LH
L1	70	Rear Pillar LH
M1	70	Roof Side Rear Inner Panel RH

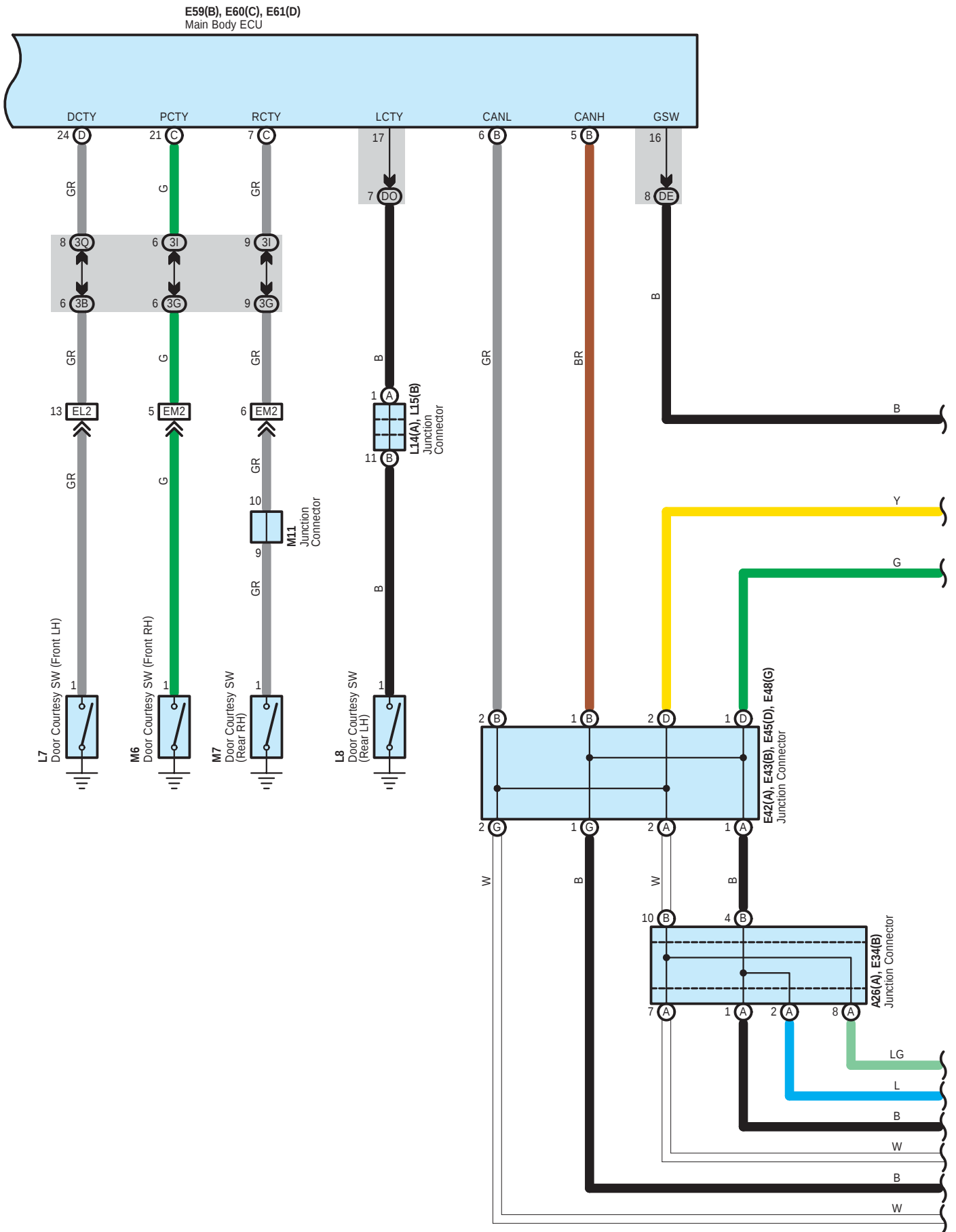
Door Lock Control



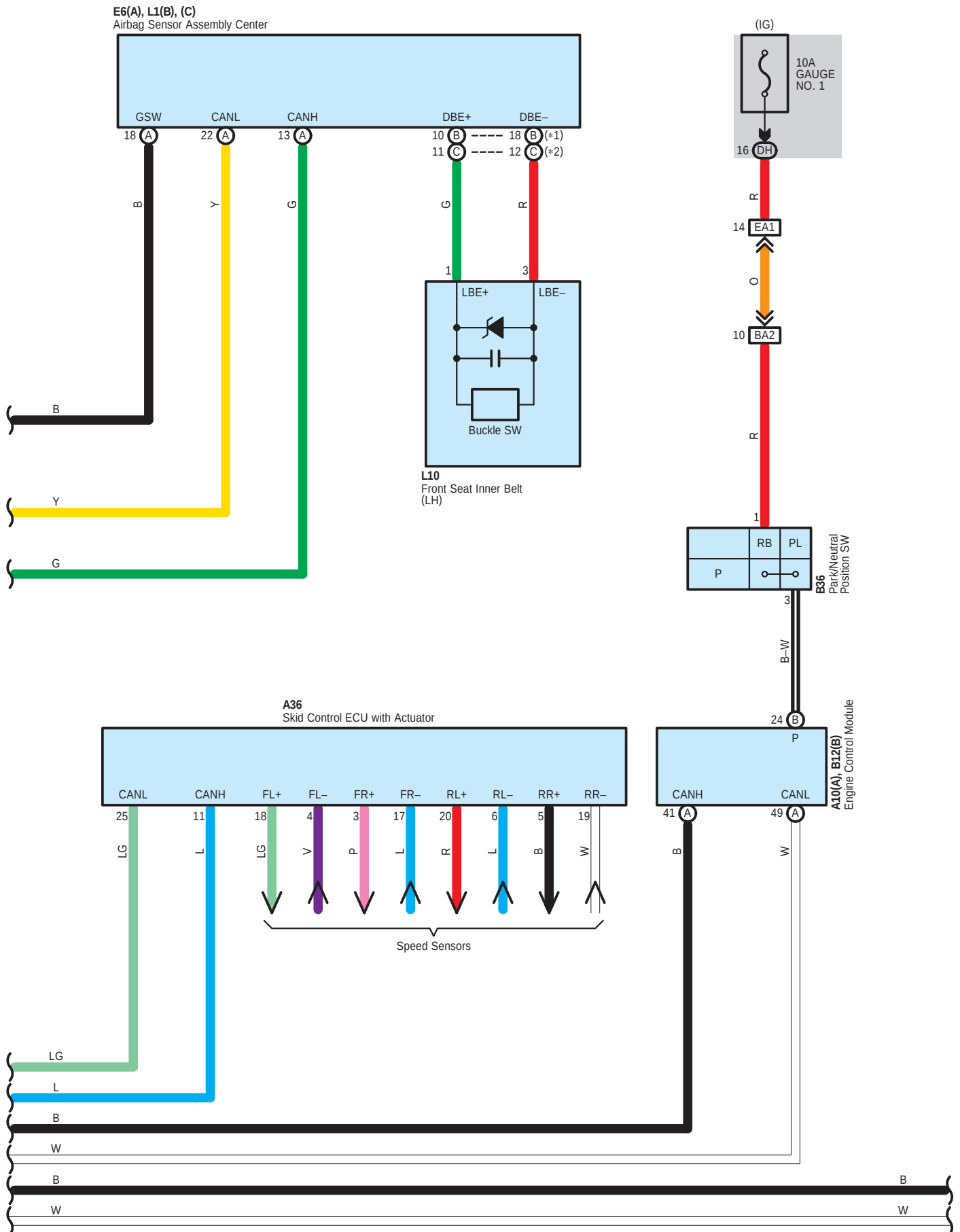
Door Lock Control

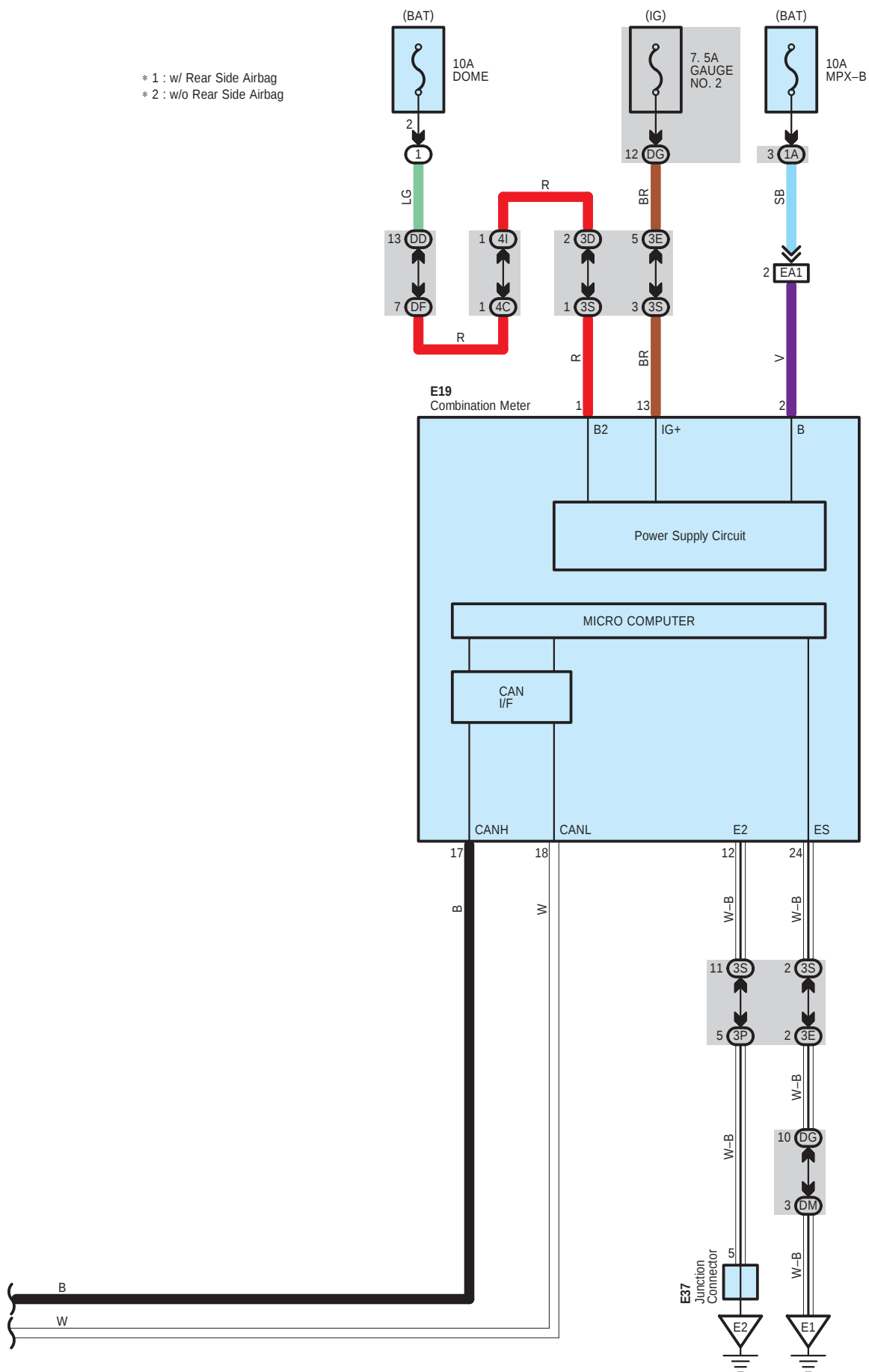
E59(B), E60(C), E61(D)
Main Body ECU





Door Lock Control





Door Lock Control

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.

○ : Parts Location

Code	See Page	Code	See Page	Code	See Page
A10	A 54	E48	G 48, 59	L7	62
A26	A 60	E59	B 59	L8	62
A36	55	E60	C 59	L10	66
B12	B 56	E61	D 59	L14	A 62
B36	57	H2	63	L15	B 62
E6	A 58	H3	63	L16	62
E19	58	I2	63	M6	62
E34	B 58	I5	63	M7	62
E37	58	J2	63	M11	62
E42	A 48, 59	K2	63	M12	62
E43	B 48, 59	L1	B 61		
E45	D 48, 59		C 61		

○ : Relay Blocks

Code	See Page	Relay Blocks (Relay Block Location)
1	22	Engine Room R/B (Engine Compartment Left)

○ : Junction Block and Wire Harness Connector

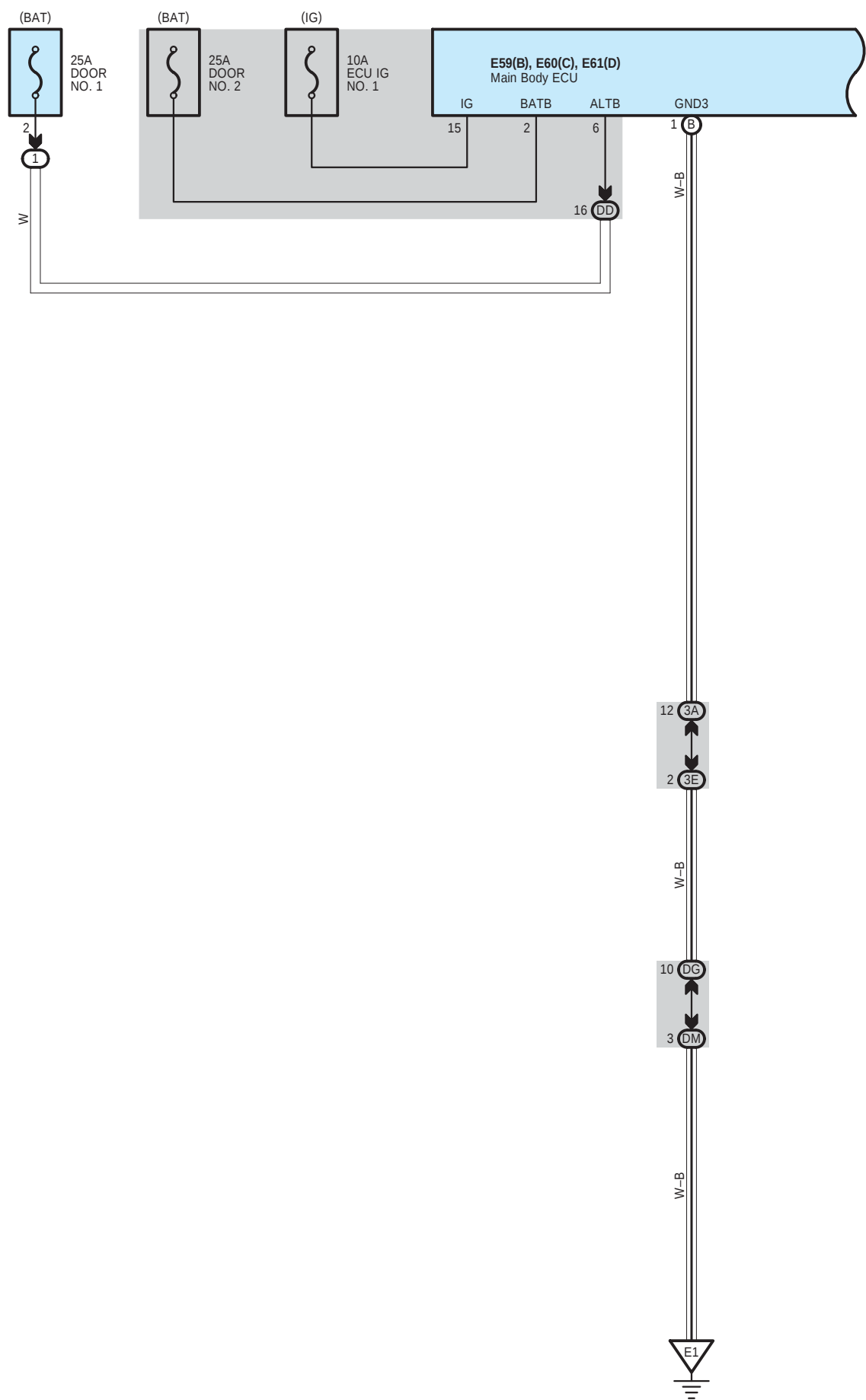
Code	See Page	Junction Block and Wire Harness (Connector Location)	
1A	24	Engine Room Main Wire and Engine Room J/B (Engine Compartment Left)	
3A	36	Instrument Panel Wire and J/B No.3 (Instrument Panel Left)	
3B			
3D			
3E			
3G			
3I			
3M			
3N			
3O			
3P			
3Q			
3S			
4C	42	Instrument Panel Wire and J/B No.4 (Instrument Panel Right)	
4I			
DD	30	Engine Room Main Wire and Instrument Panel J/B (Lower Finish Panel)	
DE	30	Instrument Panel Wire and Instrument Panel J/B (Lower Finish Panel)	
DF			
DG	31		
DH			
DJ	30		
DK			
DM			
DO	30		Floor Wire and Instrument Panel J/B (Lower Finish Panel)
DP			
DR	30	Instrument Panel Wire and Instrument Panel J/B (Lower Finish Panel)	

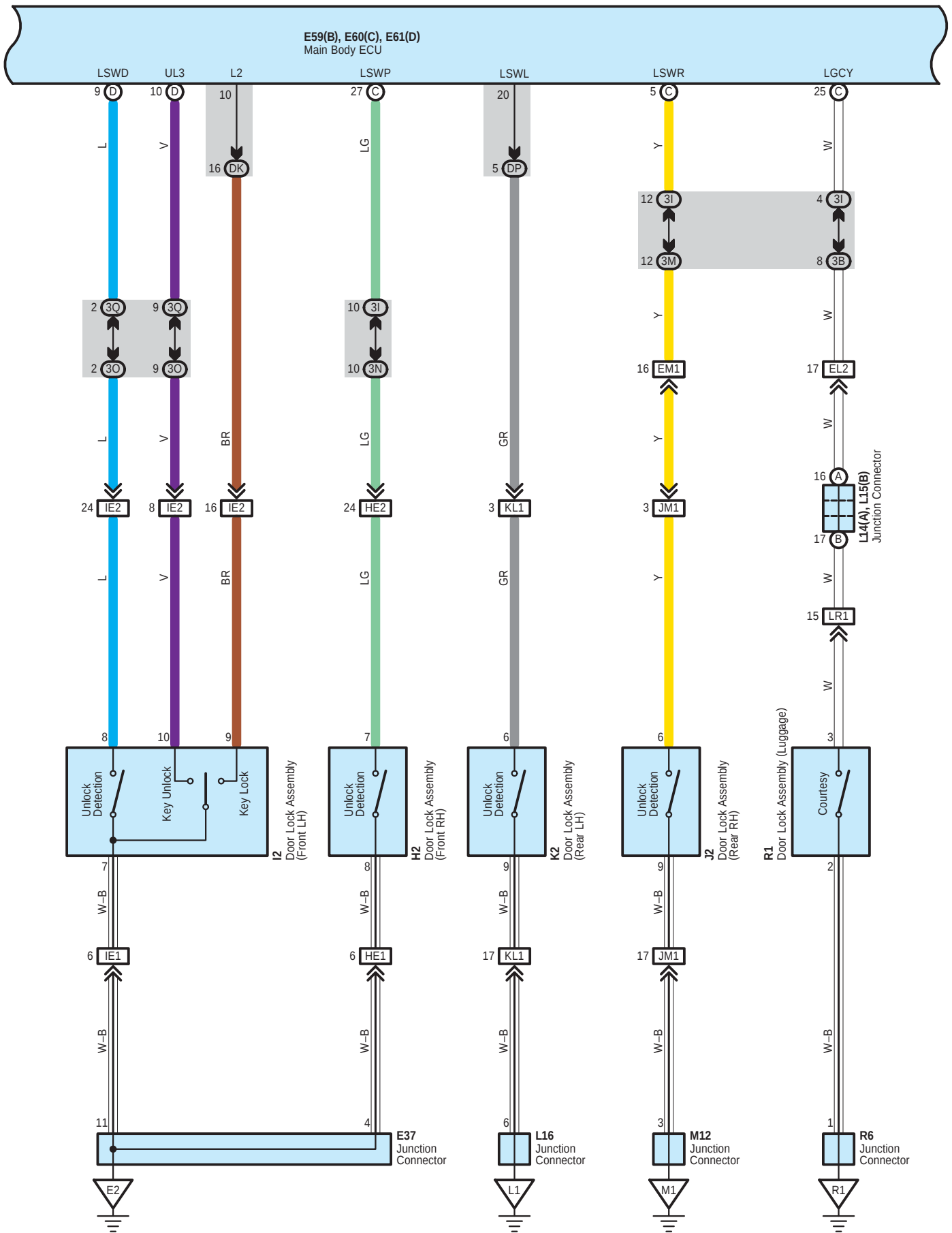
 : Connector Joining Wire Harness and Wire Harness

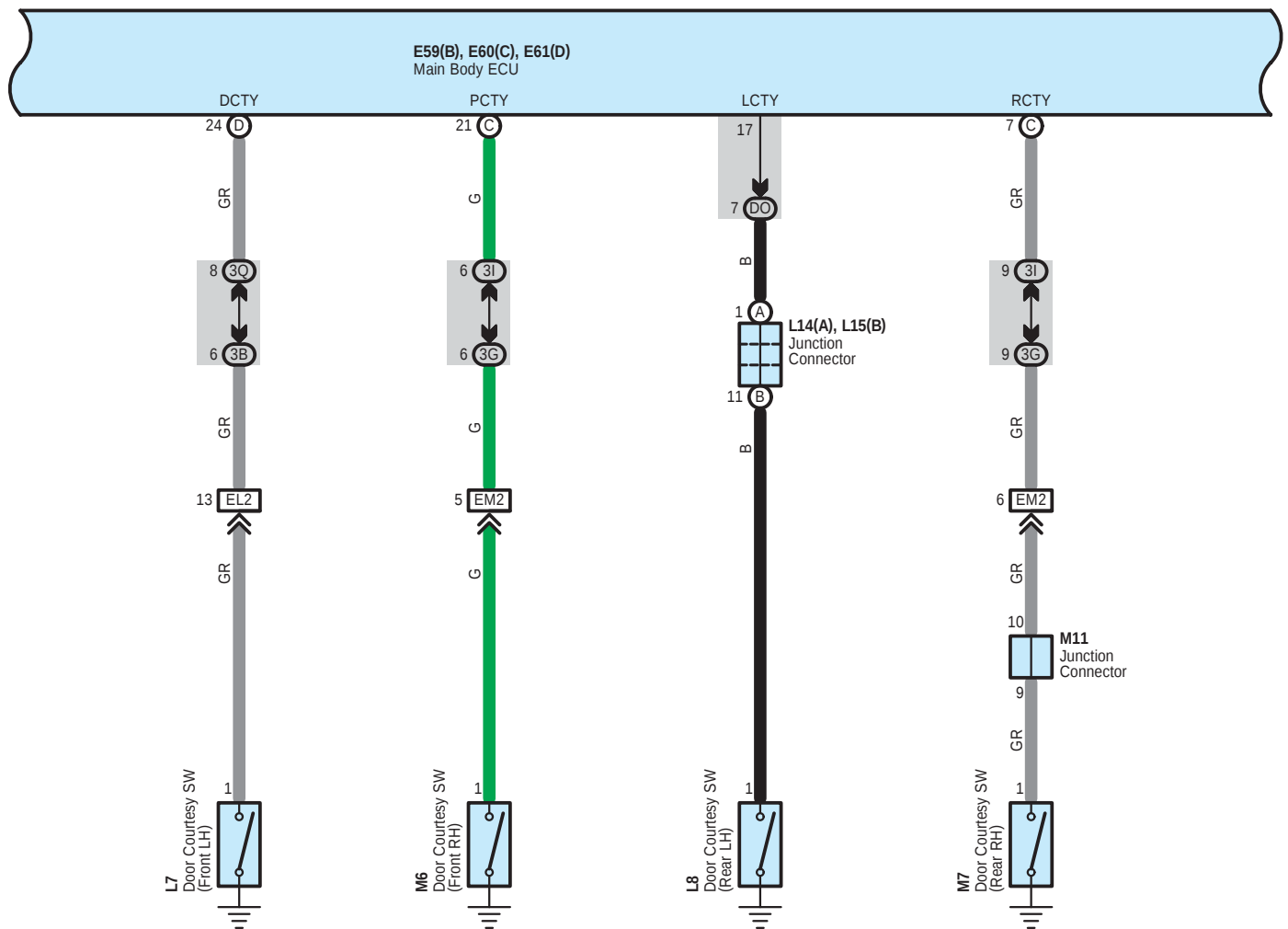
Code	See Page	Joining Wire Harness and Wire Harness (Connector Location)
BA2	68	Engine Wire and Engine Room Main Wire (Inside of the Engine Room R/B and Engine Room J/B)
EA1	69	Instrument Panel Wire and Engine Room Main Wire (Left Kick Panel)
EL2	69	Instrument Panel Wire and Floor Wire (Left Kick Panel)
EM1	69	Instrument Panel Wire and Floor No.2 Wire (Right Kick Panel)
EM2		
HE1	69	Front Door RH Wire and Instrument Panel Wire (Right Kick Panel)
HE2		
IE1	69	Front Door LH Wire and Instrument Panel Wire (Left Kick Panel)
IE2		
JM1	70	Rear Door No.1 Wire and Floor No.2 Wire (Center Pillar RH)
KL1	70	Rear Door No.2 Wire and Floor Wire (Center Pillar LH)

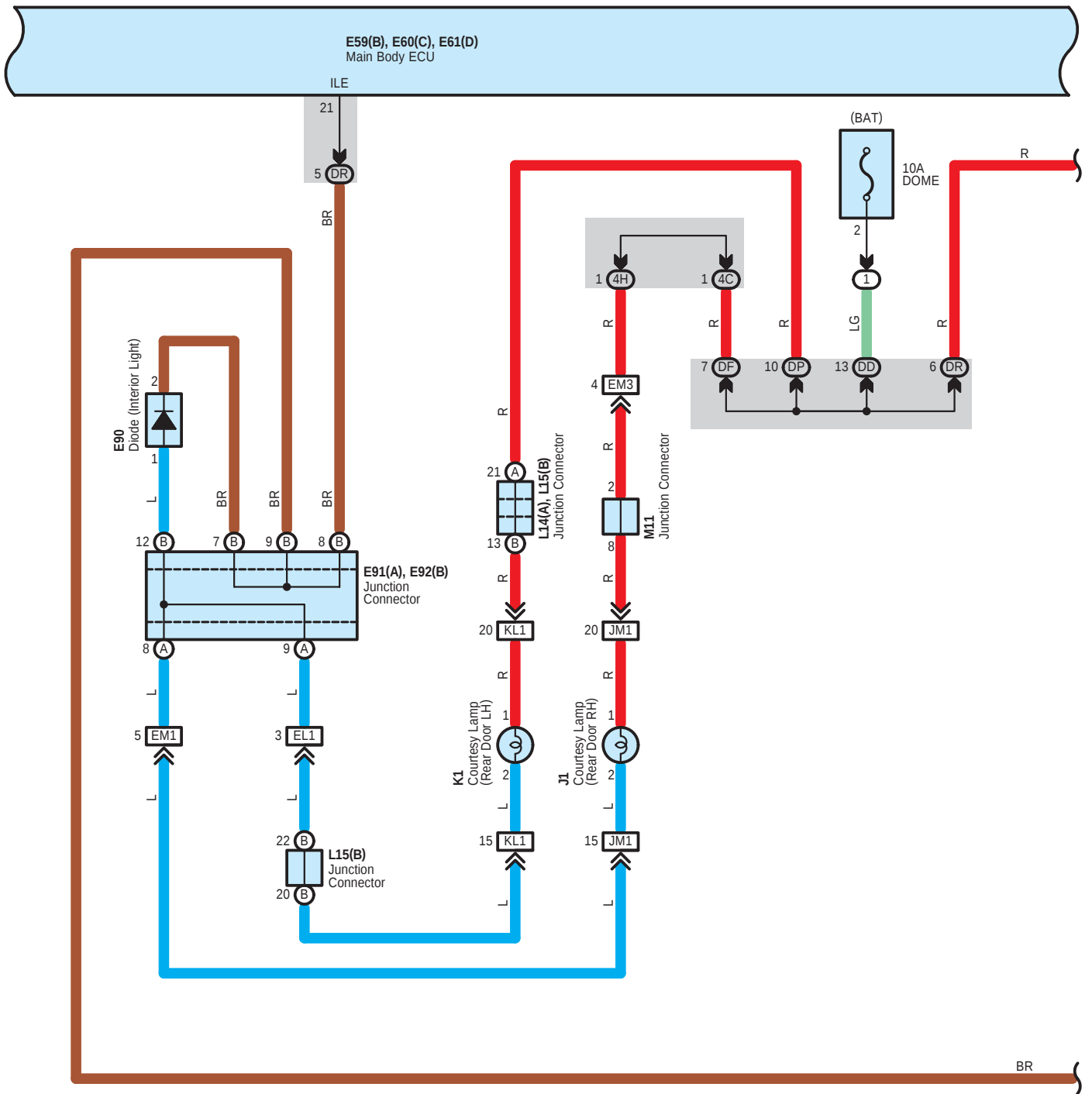
 : Ground Points

Code	See Page	Ground Points Location
E1	69	Left Side of the Instrument Panel Reinforcement
E2	69	Instrument Panel Brace LH
L1	70	Rear Pillar LH
M1	70	Roof Side Rear Inner Panel RH



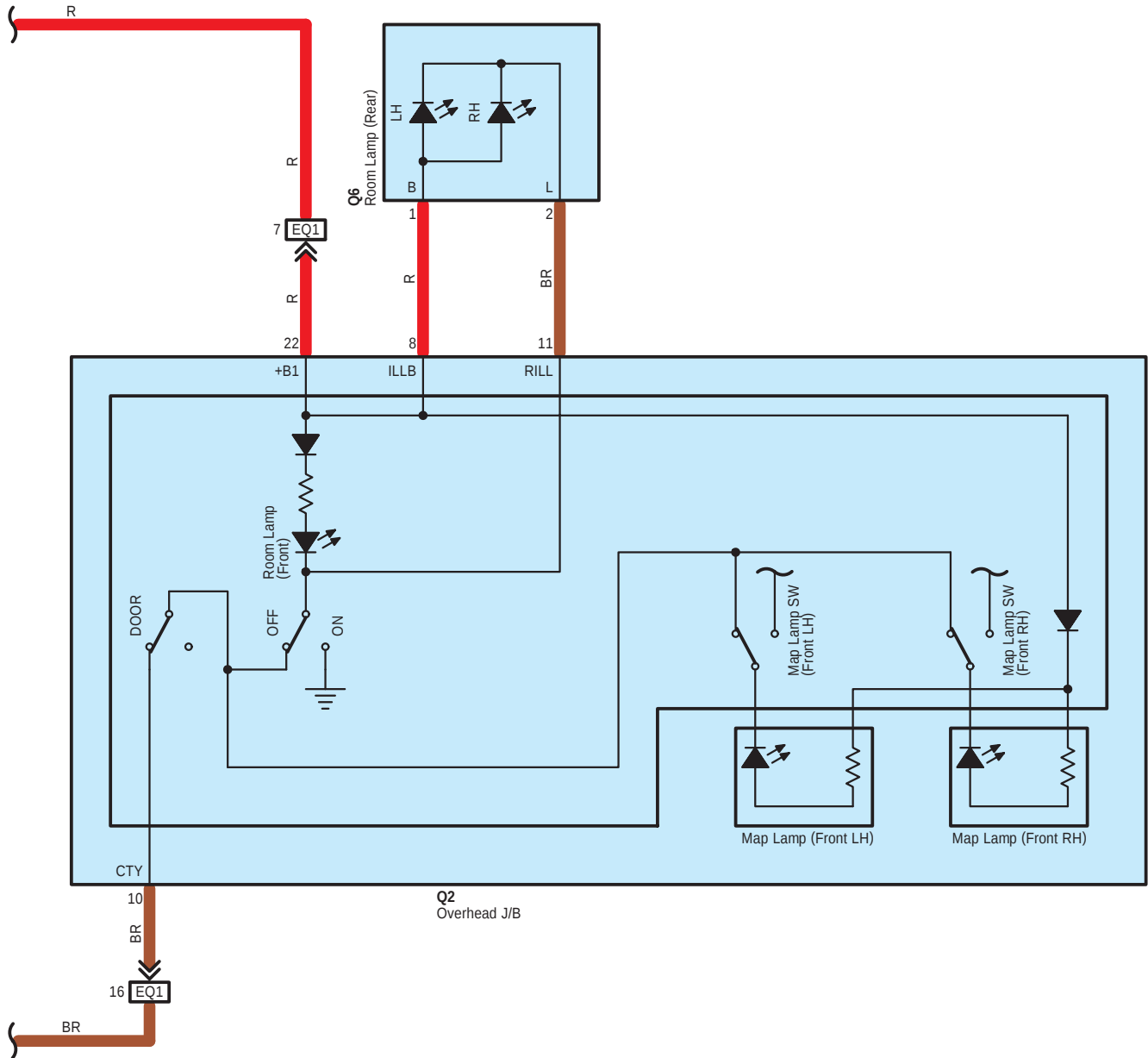


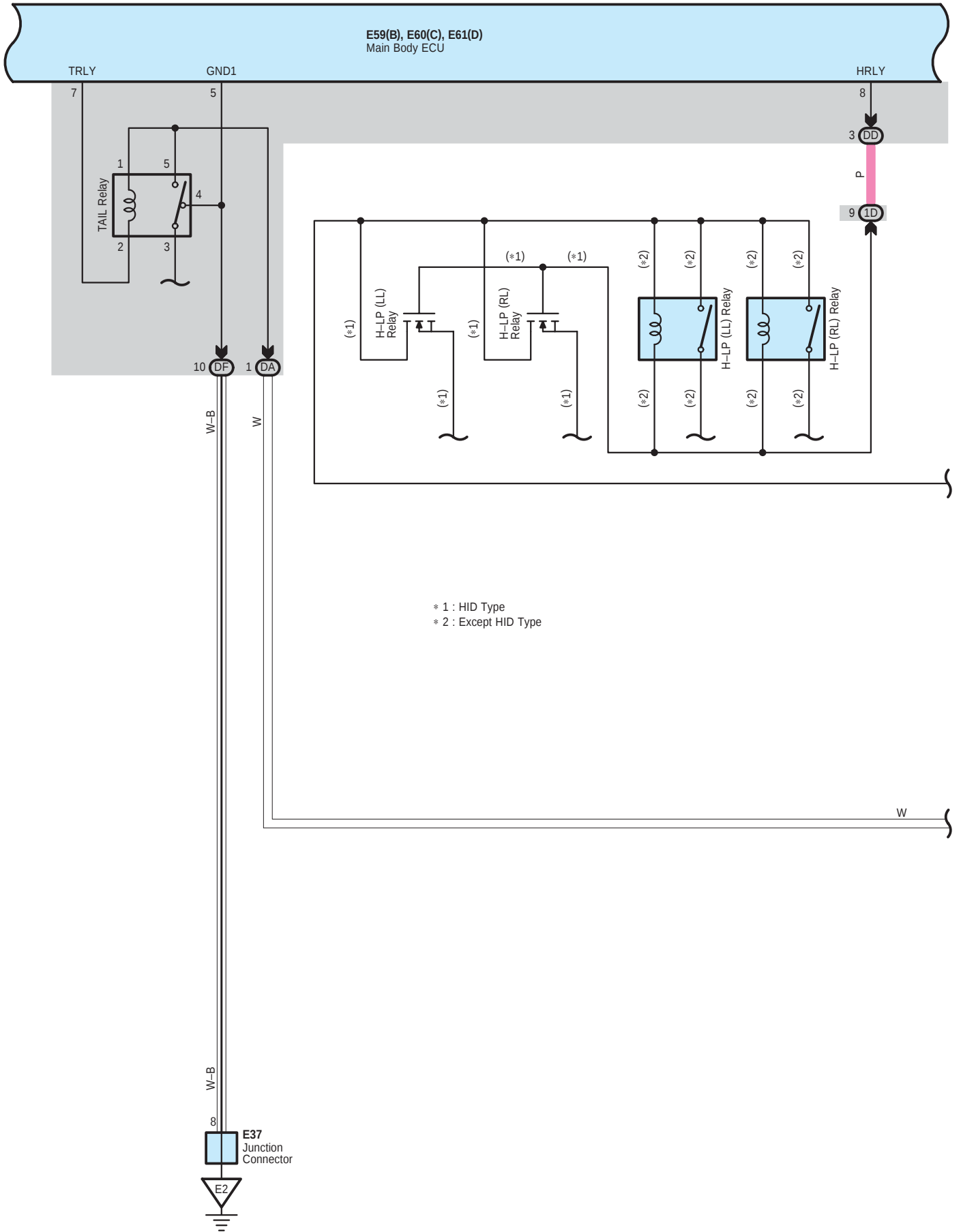


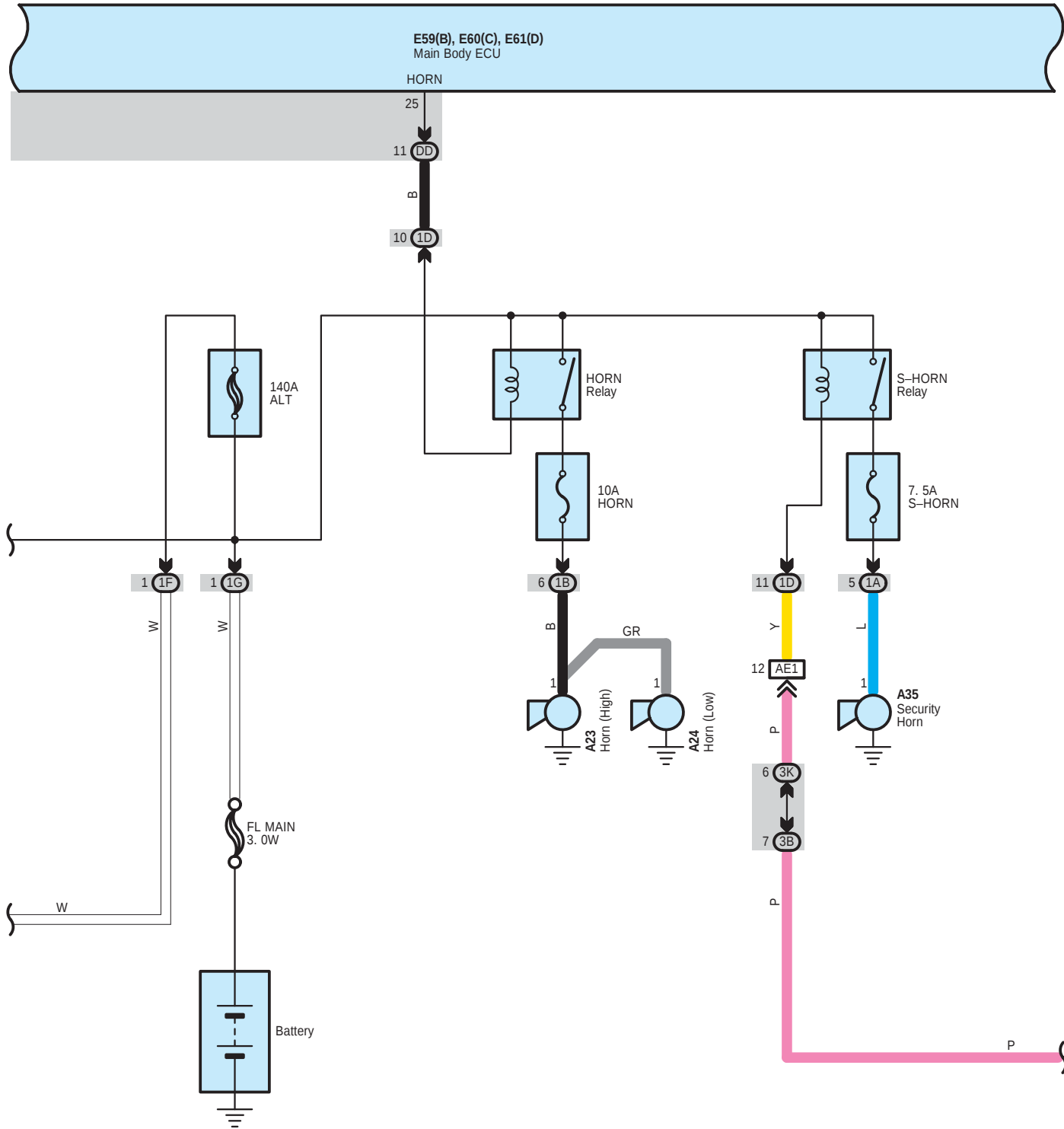


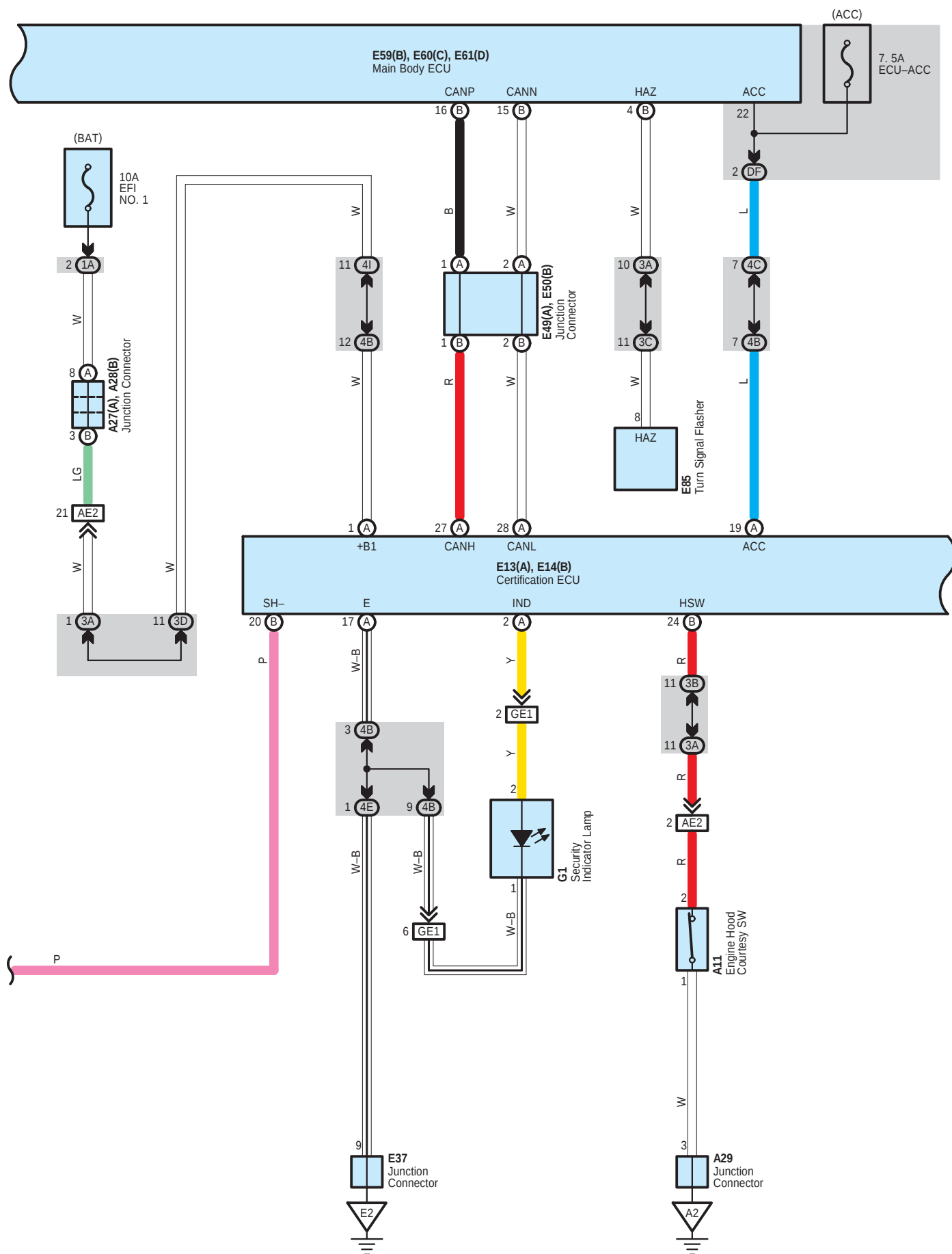
Theft Deterrent

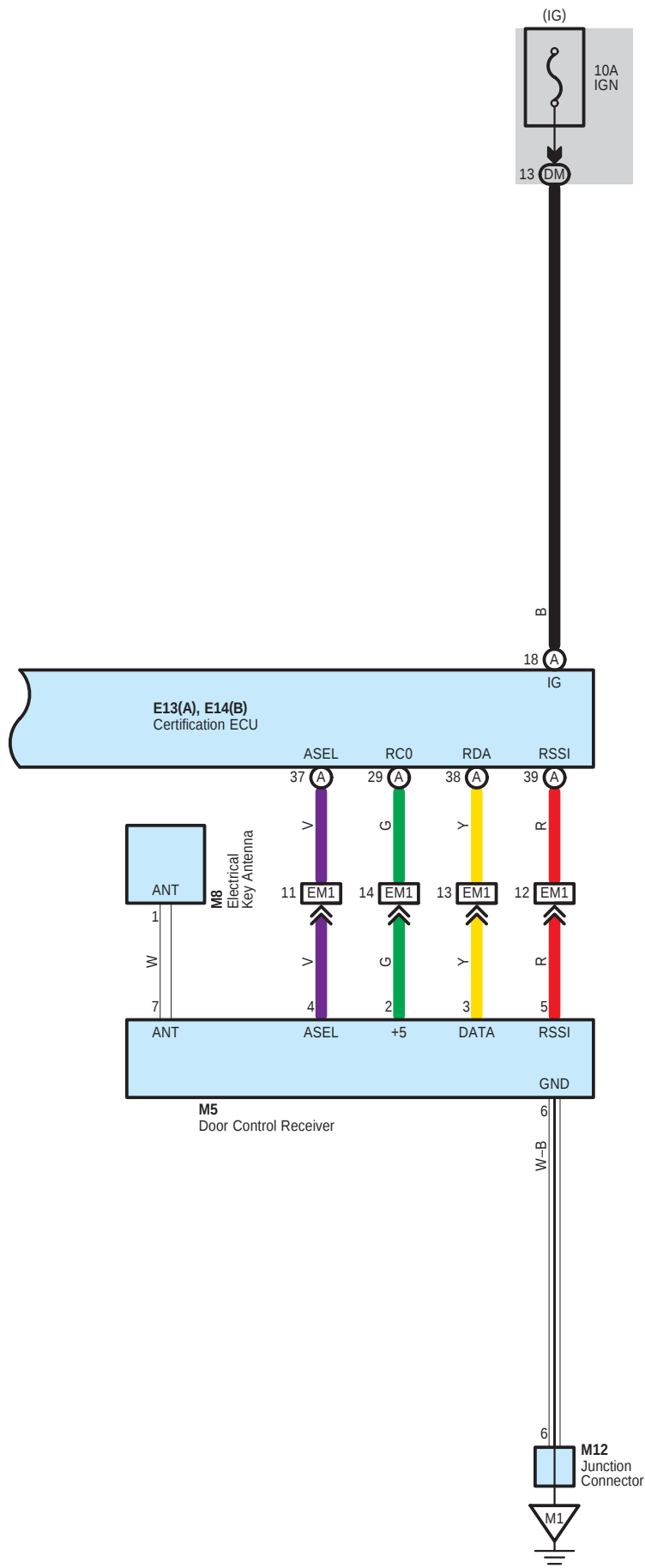
E59(B), E60(C), E61(D)
Main Body ECU











 : Parts Location

Code	See Page	Code	See Page	Code	See Page
A11	54	E61 D	59	L14 A	62
A23	54	E85	59	L15 B	62
A24	54	E90	59	L16	62
A27 A	60	E91 A	59	M5	62
A28 B	60	E92 B	59	M6	62
A29	54	G1	61	M7	62
A35	54	H2	63	M8	62
E13 A	58	I2	63	M11	62
E14 B	58	J1	63	M12	62
E37	58	J2	63	Q2	64
E49 A	50, 59	K1	63	Q6	64
E50 B	50, 59	K2	63	R1	65
E59 B	59	L7	62	R6	65
E60 C	59	L8	62		

 : Relay Blocks

Code	See Page	Relay Blocks (Relay Block Location)
1	22	Engine Room R/B (Engine Compartment Left)

 : Junction Block and Wire Harness Connector

Code	See Page	Junction Block and Wire Harness (Connector Location)
1A	24	Engine Room Main Wire and Engine Room J/B (Engine Compartment Left)
1B		
1D		
1F	22	
1G		
3A		
3B		
3C		
3D		
3E		
3G		
3I		
3K		
3M		
3N		
3O		
3Q		
4B	42	Instrument Panel Wire and J/B No.4 (Instrument Panel Right)
4C		
4E		
4H		
4I		
DA	30	Engine Room Main Wire and Instrument Panel J/B (Lower Finish Panel)
DD		
DF	30	Instrument Panel Wire and Instrument Panel J/B (Lower Finish Panel)
DG	31	
DK	30	
DM		
DO	30	Floor Wire and Instrument Panel J/B (Lower Finish Panel)
DP		
DR	30	Instrument Panel Wire and Instrument Panel J/B (Lower Finish Panel)

Theft Deterrent

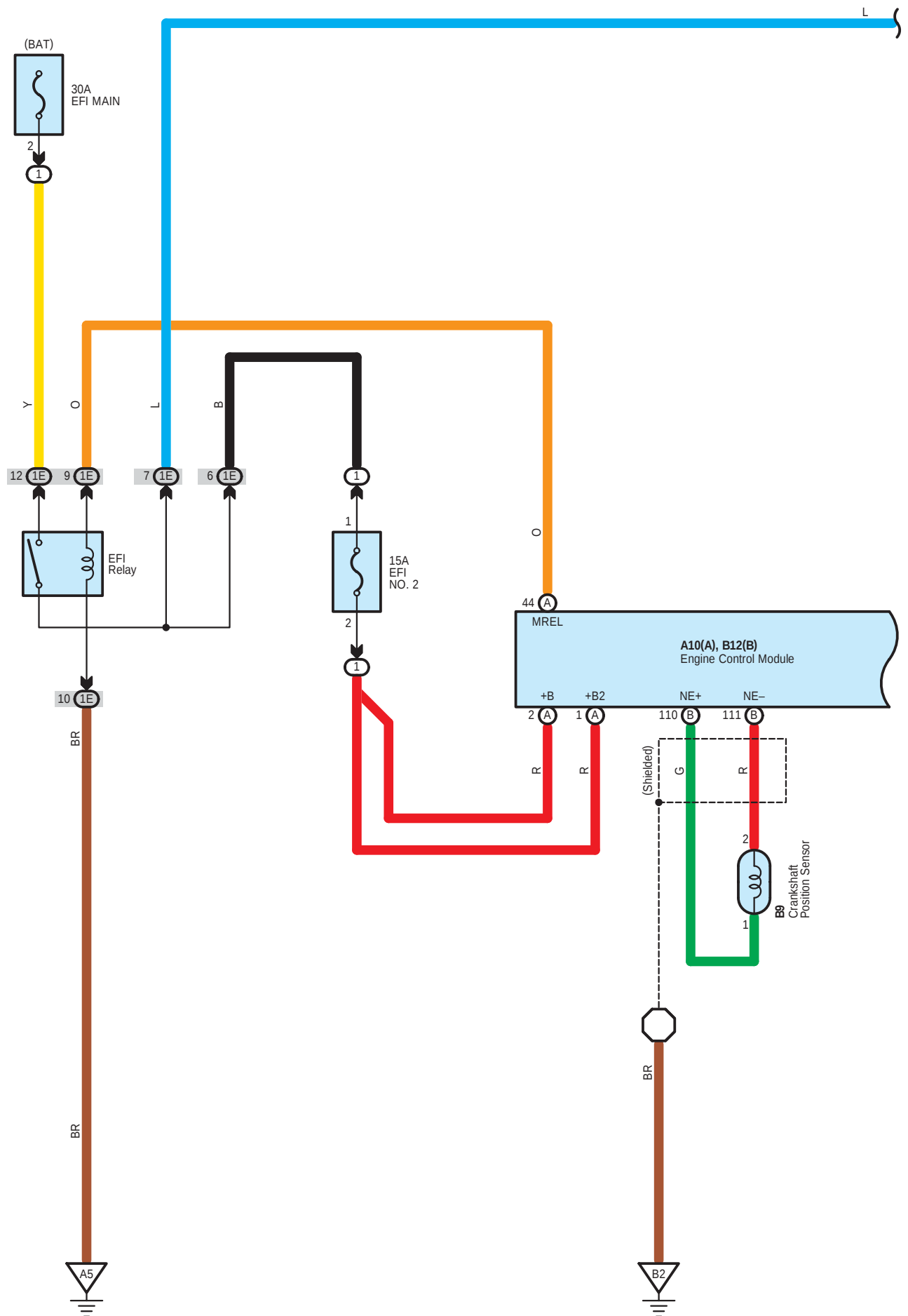
: Connector Joining Wire Harness and Wire Harness

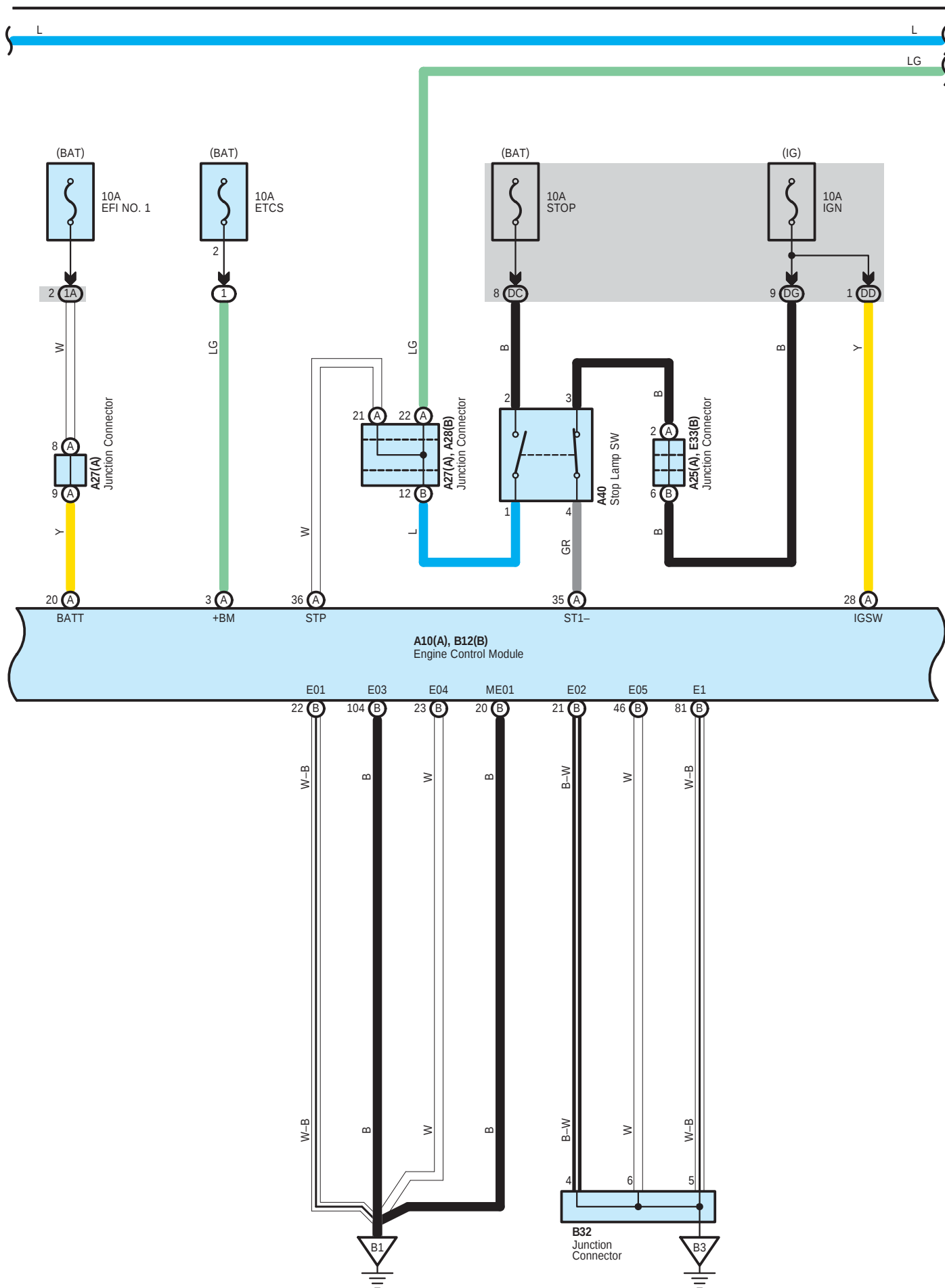
Code	See Page	Joining Wire Harness and Wire Harness (Connector Location)
AE1	69	Engine Room Main Wire and Instrument Panel Wire (Instrument Panel Right)
AE2	69	Engine Room Main Wire and Instrument Panel Wire (Instrument Panel Left)
EL1	69	Instrument Panel Wire and Floor Wire (Left Kick Panel)
EL2		
EM1	69	Instrument Panel Wire and Floor No.2 Wire (Right Kick Panel)
EM2		
EM3		
EQ1	69	Instrument Panel Wire and Roof Wire (Front Pillar LH)
GE1	69	Instrument Panel No.3 Wire and Instrument Panel Wire (Instrument Panel Center)
HE1	69	Front Door RH Wire and Instrument Panel Wire (Right Kick Panel)
HE2		
IE1	69	Front Door LH Wire and Instrument Panel Wire (Left Kick Panel)
IE2		
JM1	70	Rear Door No.1 Wire and Floor No.2 Wire (Center Pillar RH)
KL1	70	Rear Door No.2 Wire and Floor Wire (Center Pillar LH)
LR1	70	Floor Wire and Luggage Room Wire (Roof Side Rear Inner Panel LH)

: Ground Points

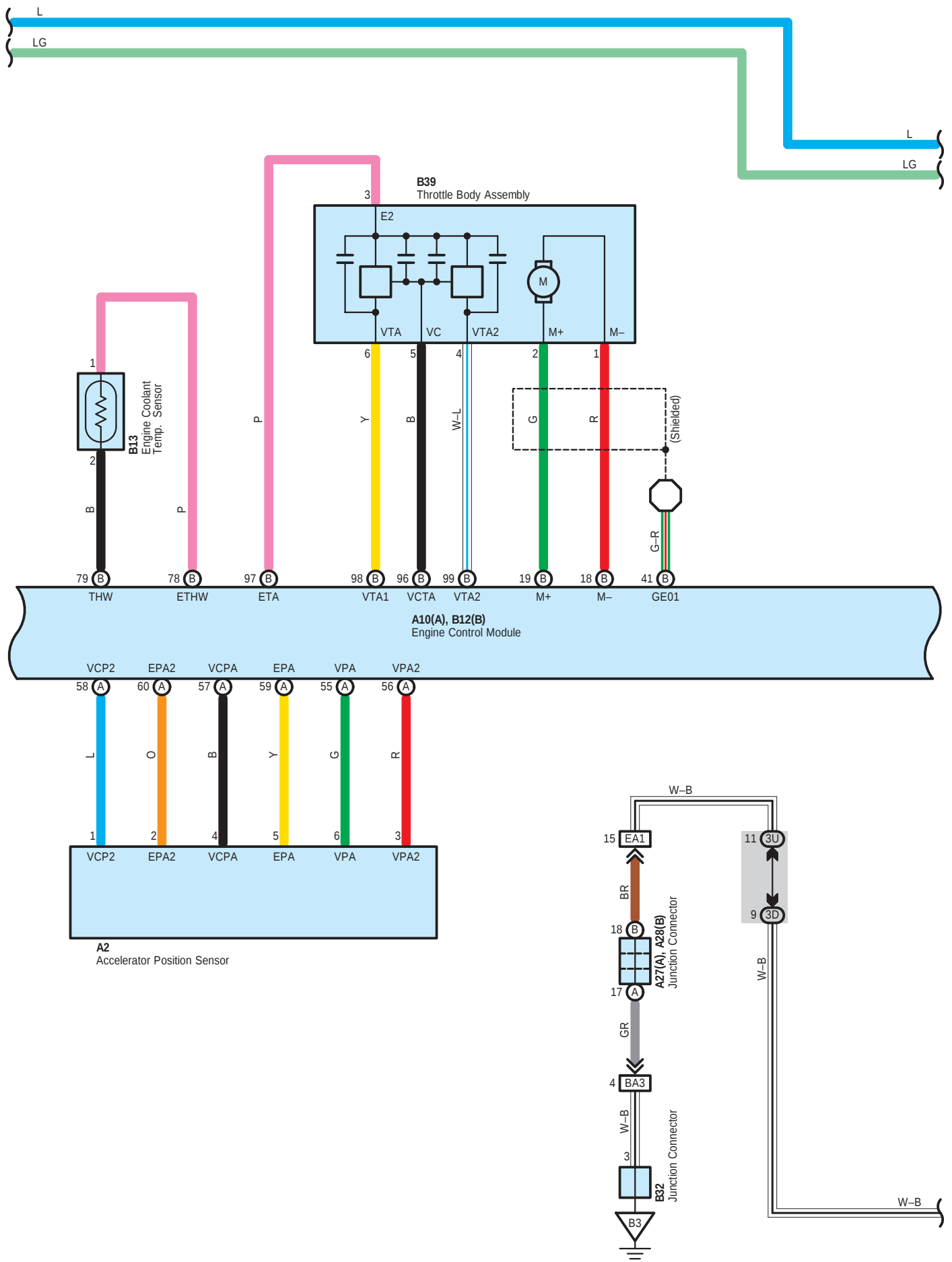
Code	See Page	Ground Points Location
A2	68	Front Left Fender Apron
E1	69	Left Side of the Instrument Panel Reinforcement
E2	69	Instrument Panel Brace LH
L1	70	Rear Pillar LH
M1	70	Roof Side Rear Inner Panel RH
R1	70	Roof Side Rear Inner Panel LH

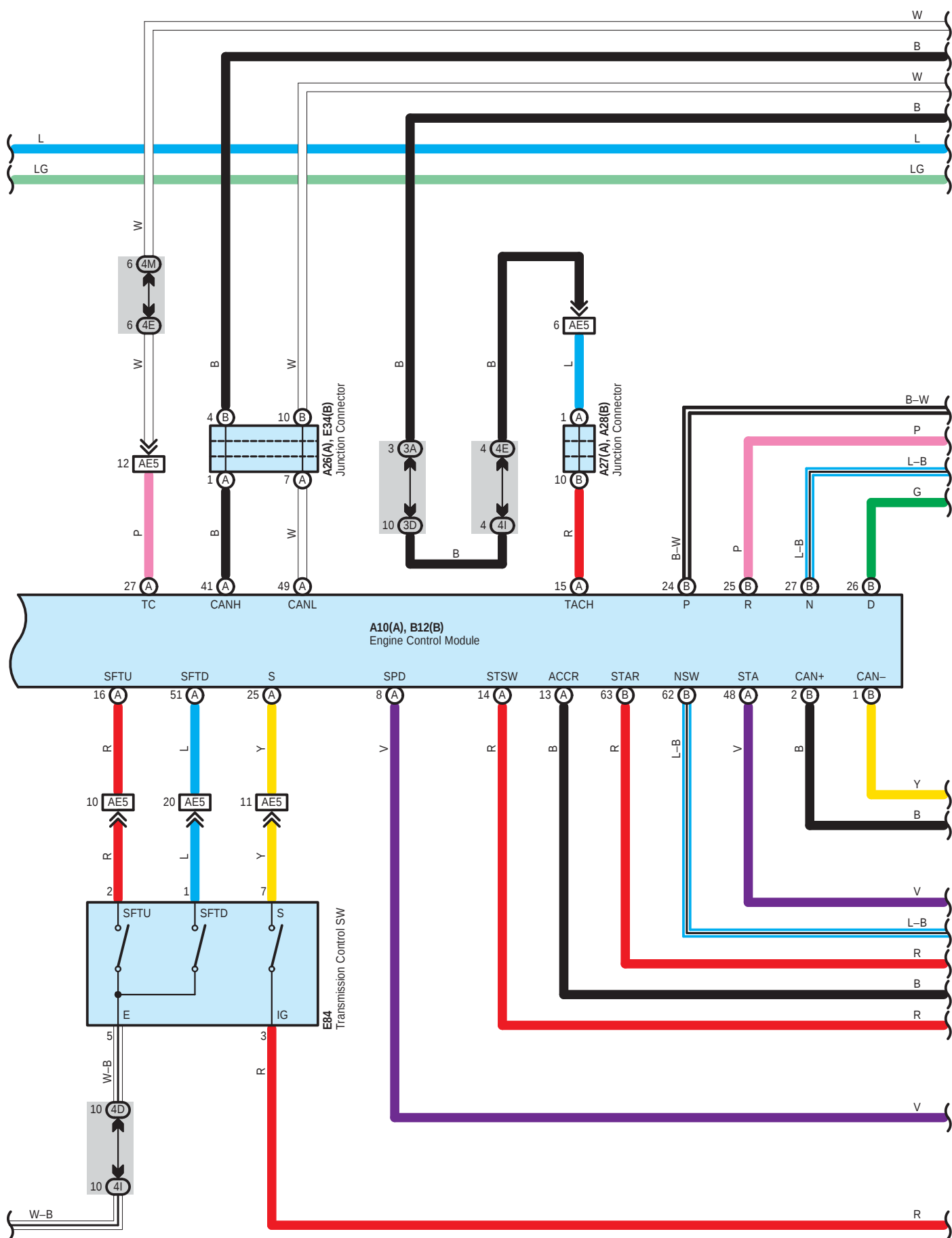
ECT and A/T Indicator



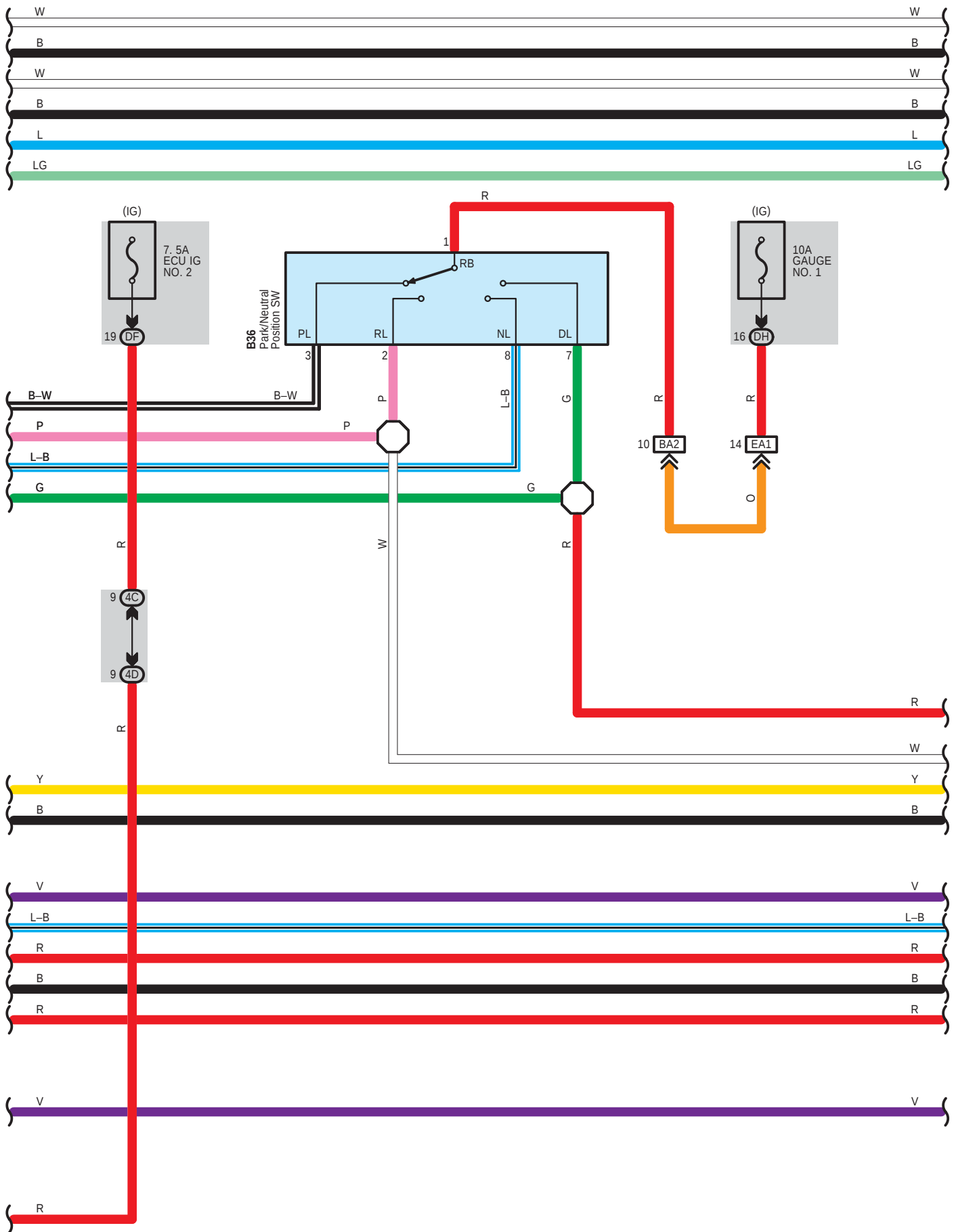


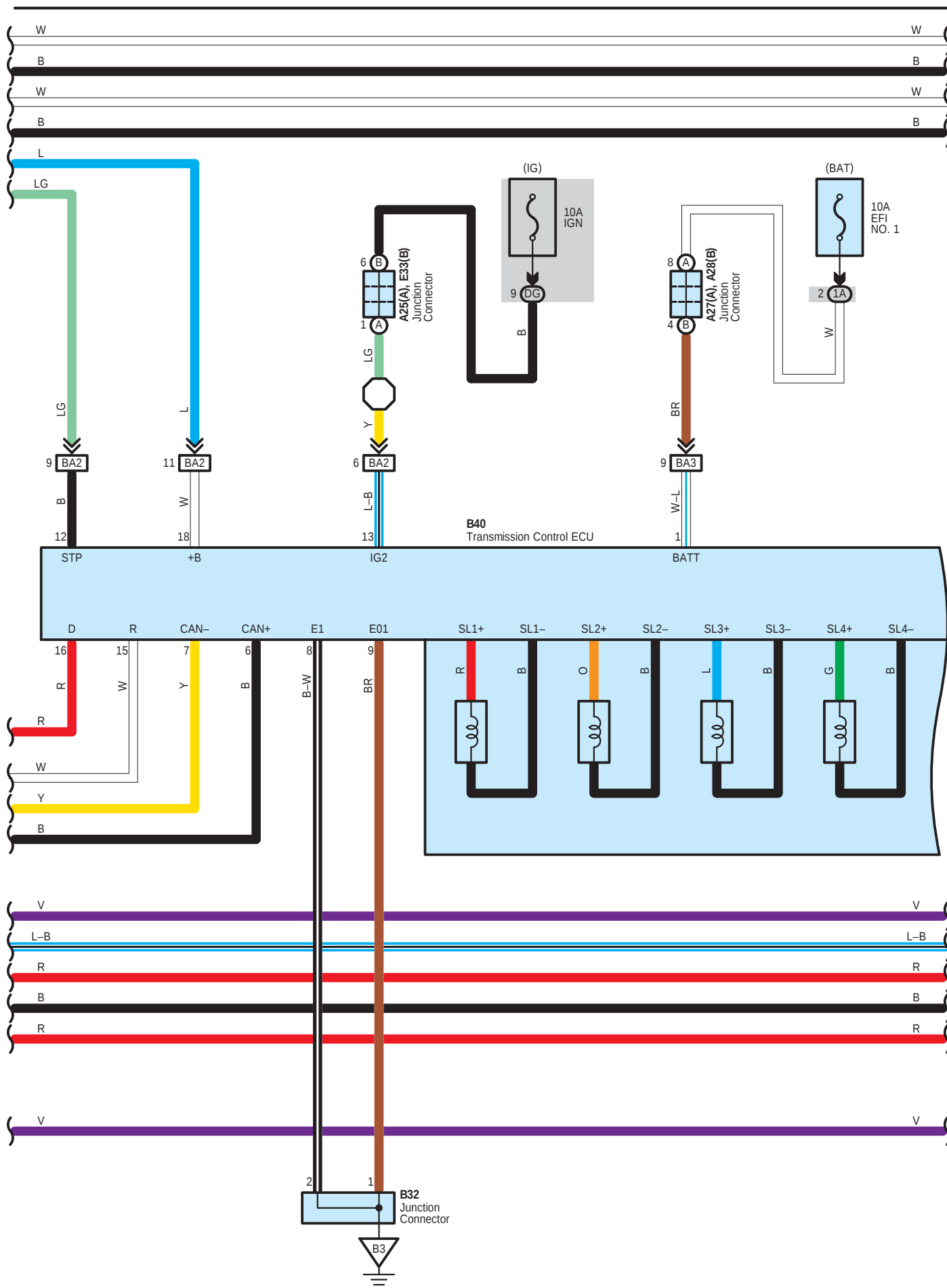
ECT and A/T Indicator



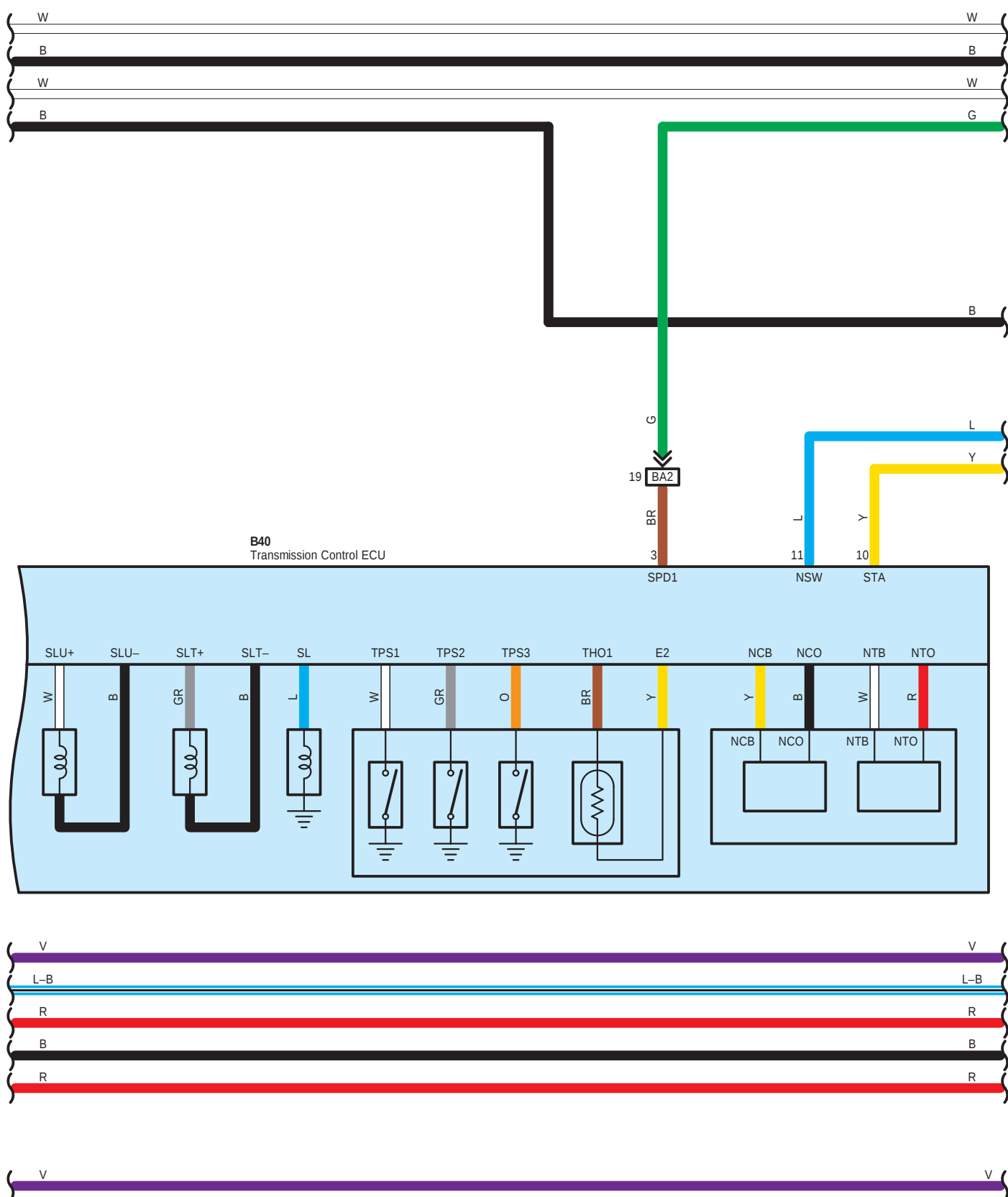


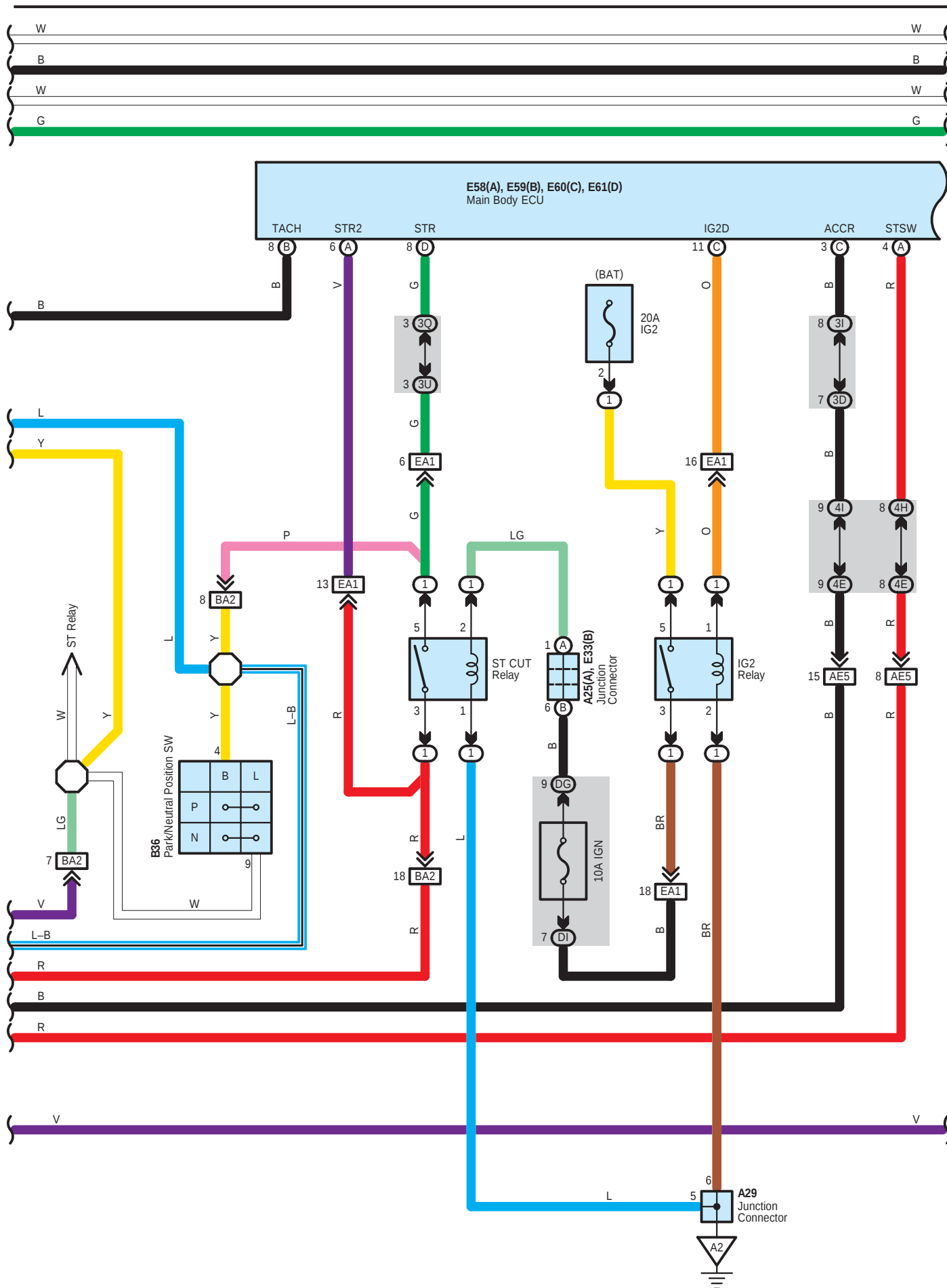
ECT and A/T Indicator



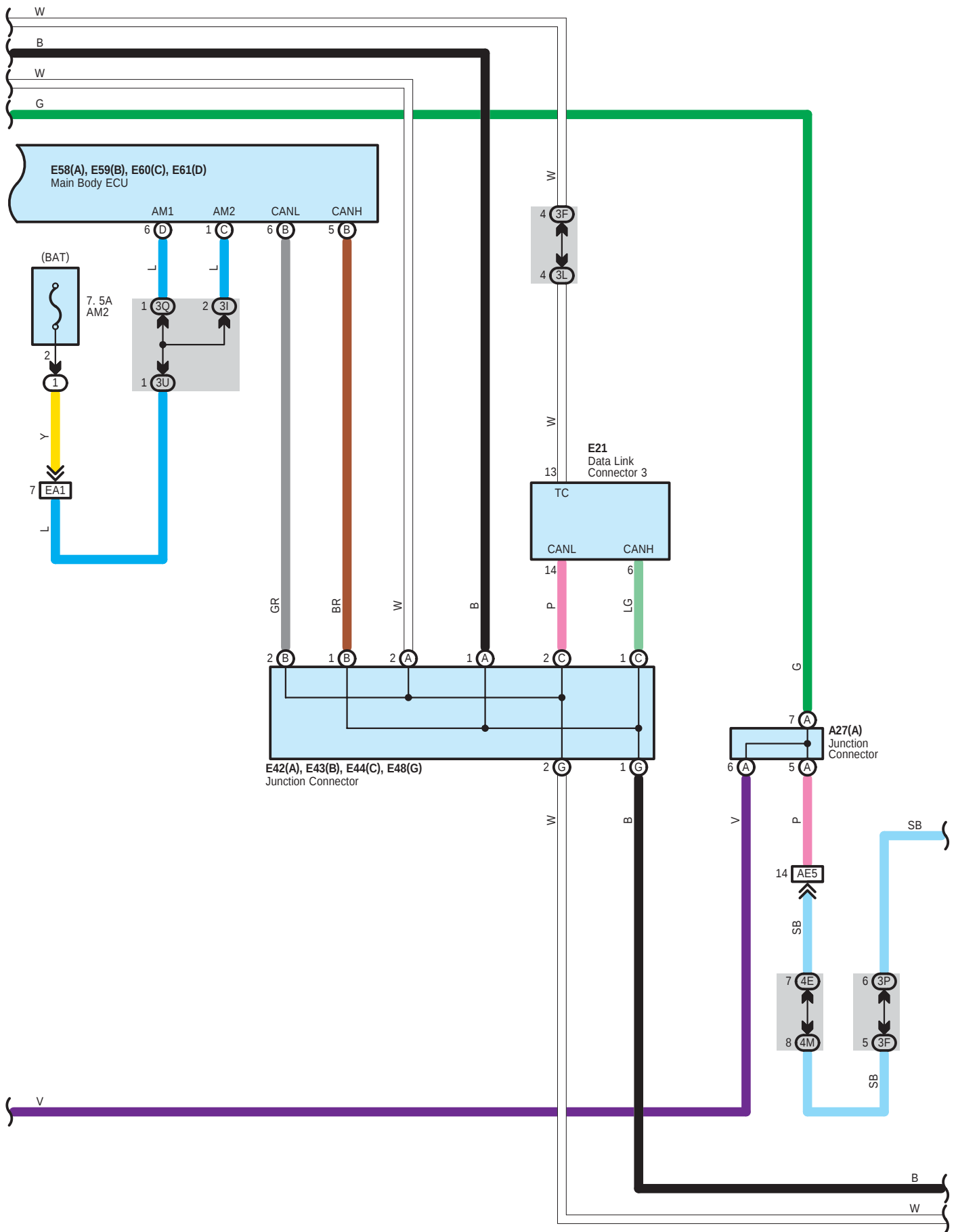


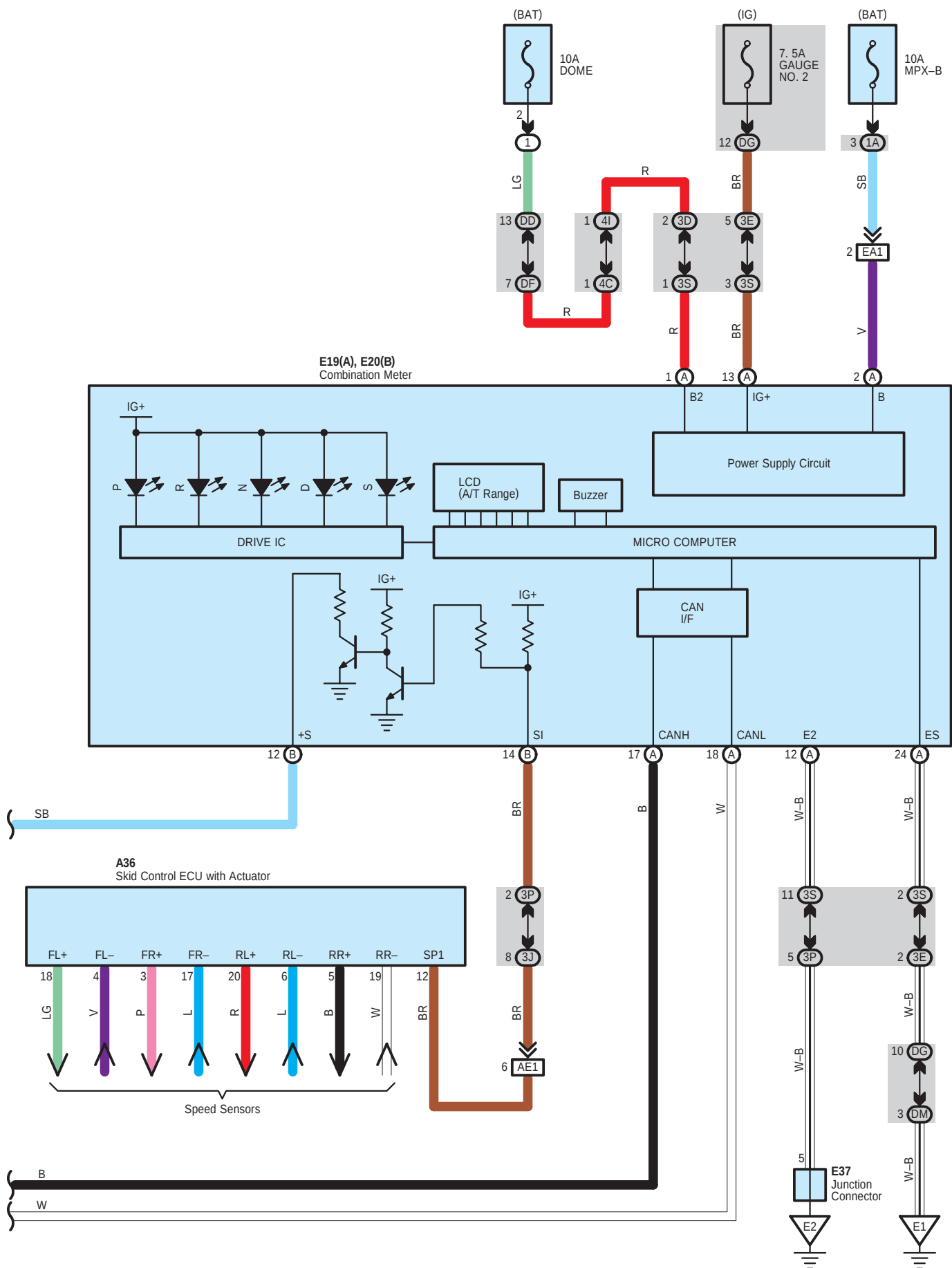
ECT and A/T Indicator





ECT and A/T Indicator





ECT and A/T Indicator

System Outline

1. Line Pressure Optimal Control

Through the use of the solenoid valve SLT, the line pressure is optimally controlled in accordance with the engine torque information, as well as with the internal operating conditions of the torque converter and the transaxle. Accordingly, the line pressure can be controlled minutely in accordance with the engine output, traveling condition, and the ATF temperature, thus realizing smooth shift characteristics and optimizing the workload in the oil pump.

2. Clutch-to-Clutch Transmission Control

The fluid pressure of the clutch and that of the brake are controlled independently using the control valve in accordance with the output pressures of the linear solenoid valves, SL1, SL2, SL3 and SL4, which are controlled based on drive signals from the transmission control ECU.

By fully utilizing the fluid pressure circuit and the compact, large flow volume linear solenoid, the optimum fluid pressures and timings of the clutch and brake are controlled independently, based on the input/output shaft rotation speed, engine torque, etc. The transmission realizes not only single gearshift, but also multiple gearshifts, smoothly and with improved response.

3. Multi Mode Automatic Transmission

Multi mode automatic transmission have [S]-position is beside of [D]-position. If moving the selector lever "S" side, you can select shift range just link manual shifting.

○ : Parts Location

Code	See Page	Code	See Page	Code	See Page
A2	60	B13	56	E42	A 48, 59
A10	A 54	B32	57	E43	B 48, 59
A25	A 60	B36	57	E44	C 48, 59
A26	A 60	B39	57	E48	G 48, 59
A27	A 60	B40	57	E58	A 59
A28	B 60	E19	A 58	E59	B 59
A29	54	E20	B 58	E60	C 59
A36	55	E21	58	E61	D 59
A40	60	E33	B 58	E84	59
B9	56	E34	B 58		
B12	B 56	E37	58		

○ : Relay Blocks

Code	See Page	Relay Blocks (Relay Block Location)
1	22	Engine Room R/B (Engine Compartment Left)

**: Junction Block and Wire Harness Connector**

Code	See Page	Junction Block and Wire Harness (Connector Location)
1A	24	Engine Room Main Wire and Engine Room J/B (Engine Compartment Left)
1E		
3A	36	Instrument Panel Wire and J/B No.3 (Instrument Panel Left)
3D		
3E		
3F		
3I		
3J		
3L		
3P		
3Q		
3S		
3U		
4C	42	Instrument Panel Wire and J/B No.4 (Instrument Panel Right)
4D		
4E		
4H		
4I		
4M		
DC	30	Engine Room Main Wire and Instrument Panel J/B (Lower Finish Panel)
DD		
DF	30	Instrument Panel Wire and Instrument Panel J/B (Lower Finish Panel)
DG		
DH	31	
DI		
DM	30	

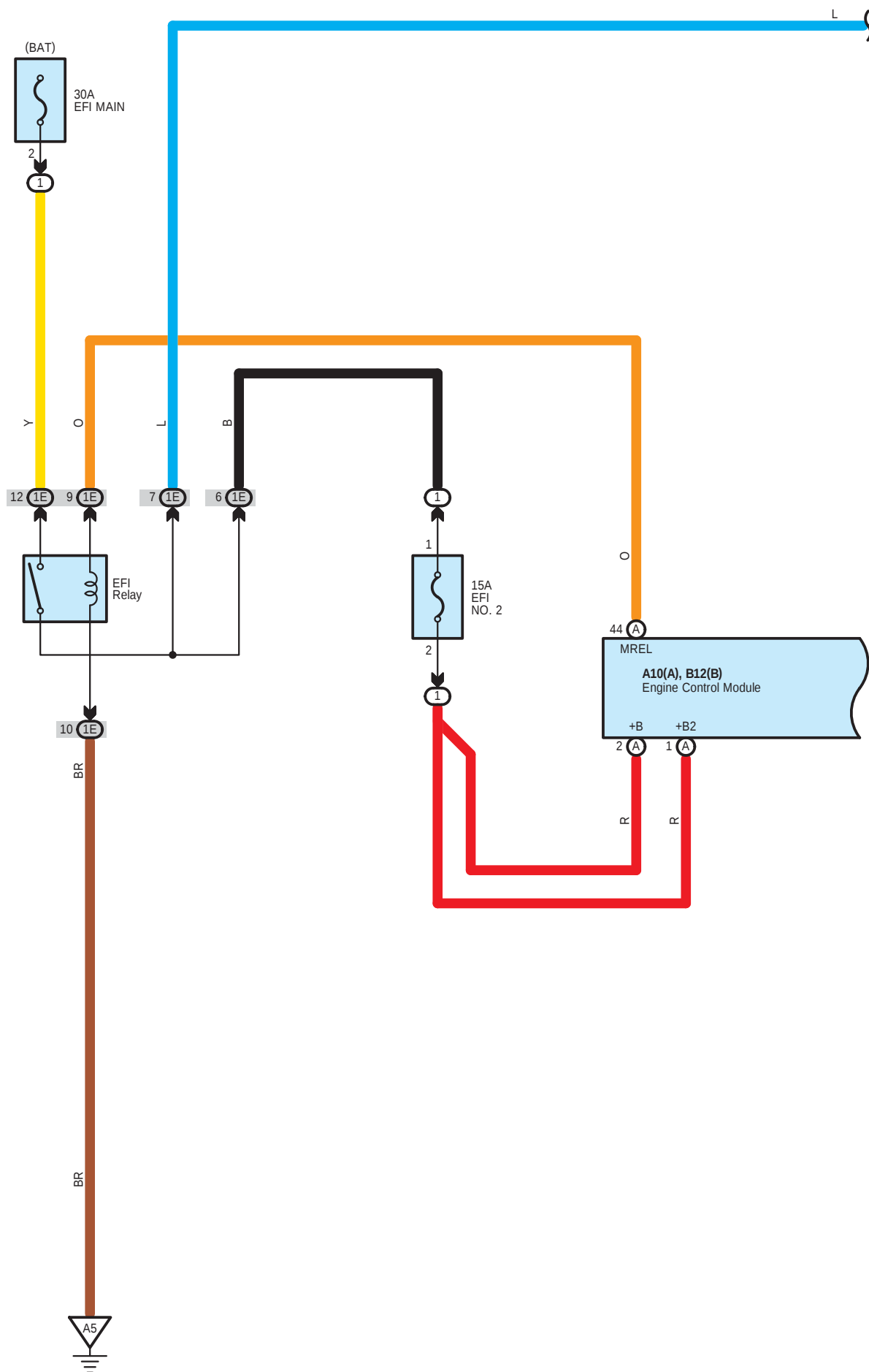
**: Connector Joining Wire Harness and Wire Harness**

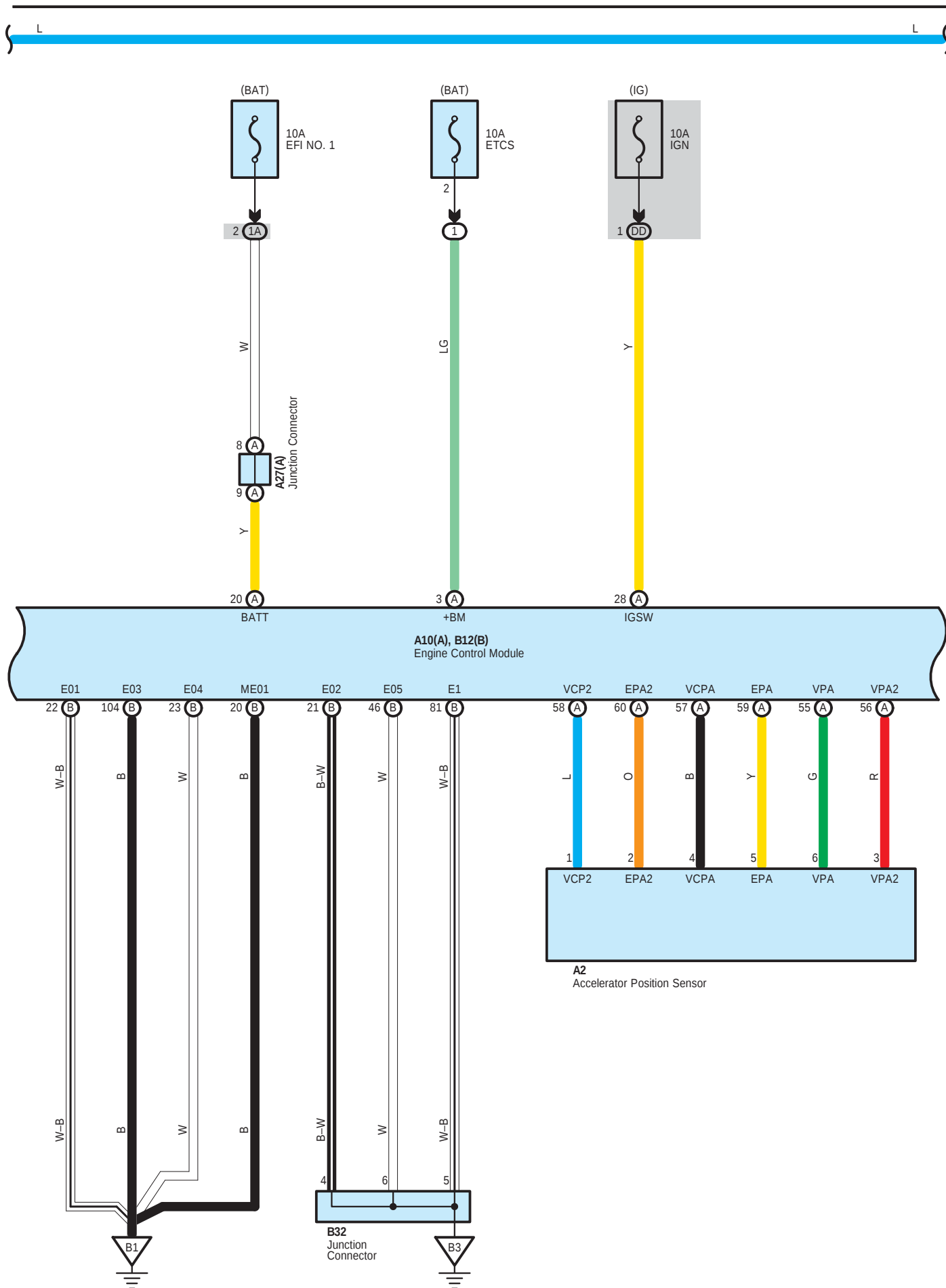
Code	See Page	Joining Wire Harness and Wire Harness (Connector Location)
AE1	69	Engine Room Main Wire and Instrument Panel Wire (Instrument Panel Right)
AE5		
BA2	68	Engine Wire and Engine Room Main Wire (Inside of the Engine Room R/B and Engine Room J/B)
BA3		
EA1	69	Instrument Panel Wire and Engine Room Main Wire (Left Kick Panel)

**: Ground Points**

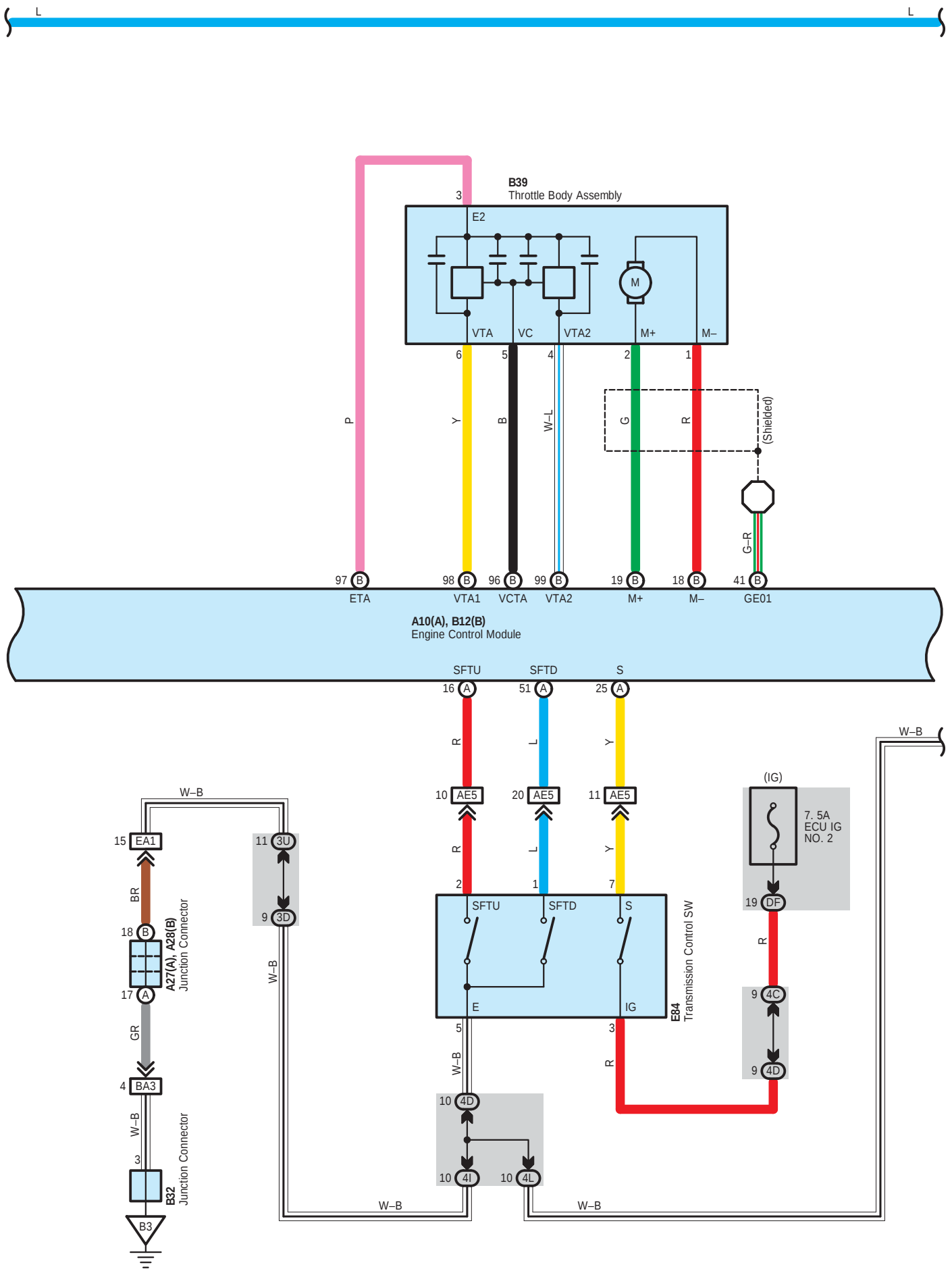
Code	See Page	Ground Points Location
A2	68	Front Left Fender Apron
A5	69	Cowl Side Left
B1	68	Left Side of the Cylinder Head
B2	68	Left Side of the Cylinder Block
B3	68	Right Side of the Cylinder Block
E1	69	Left Side of the Instrument Panel Reinforcement
E2	69	Instrument Panel Brace LH

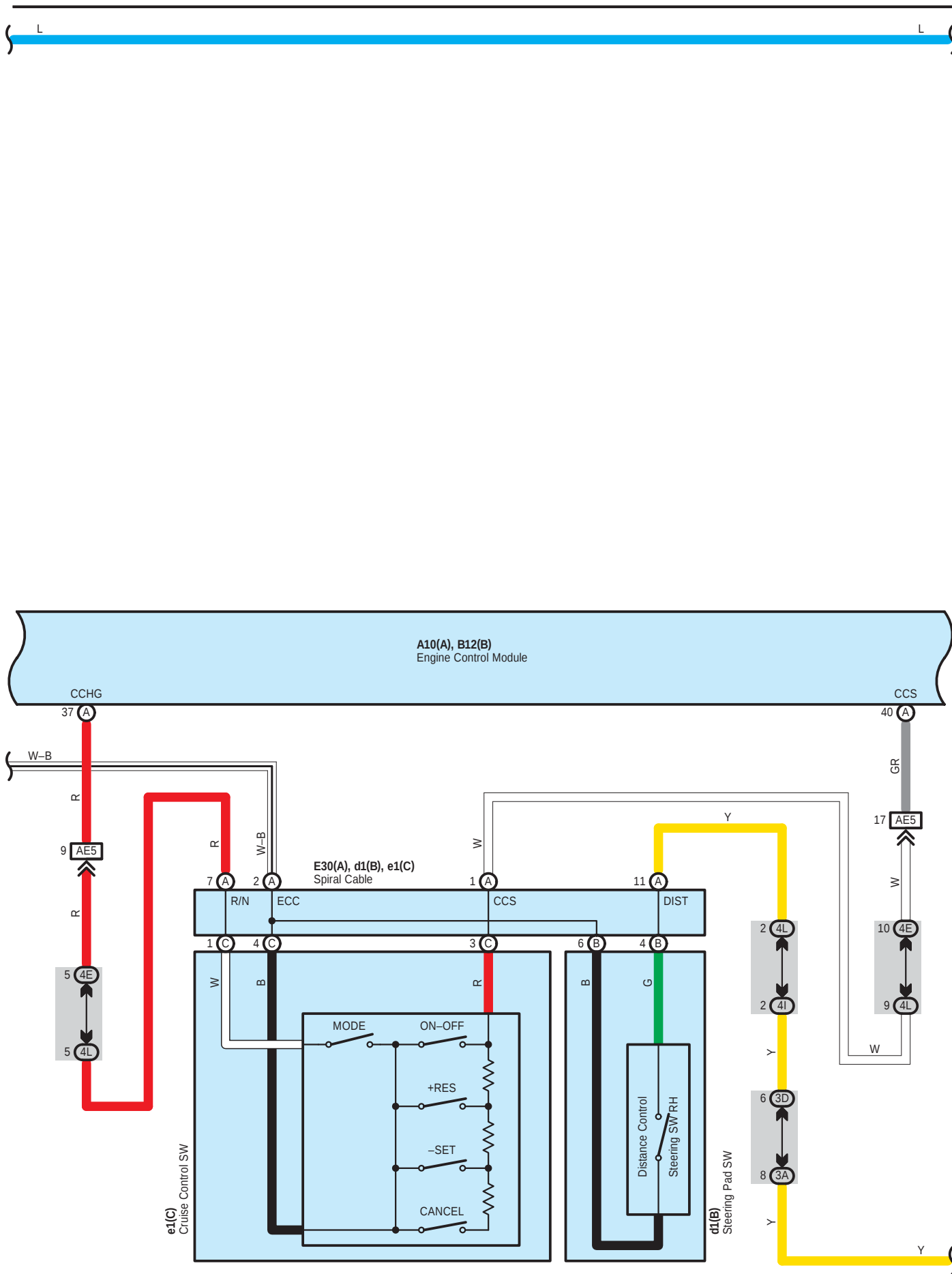
Dynamic Radar Cruise Control



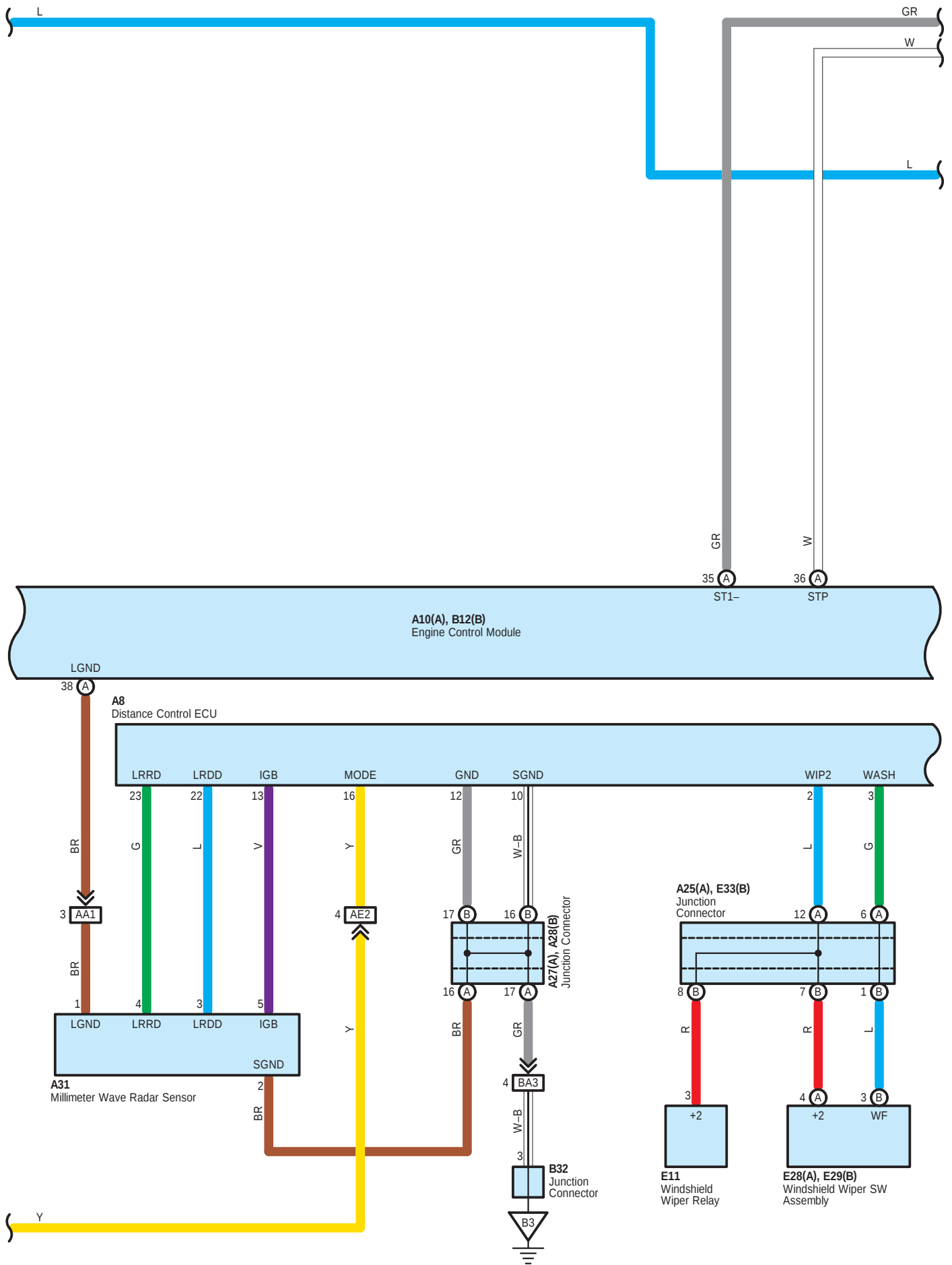


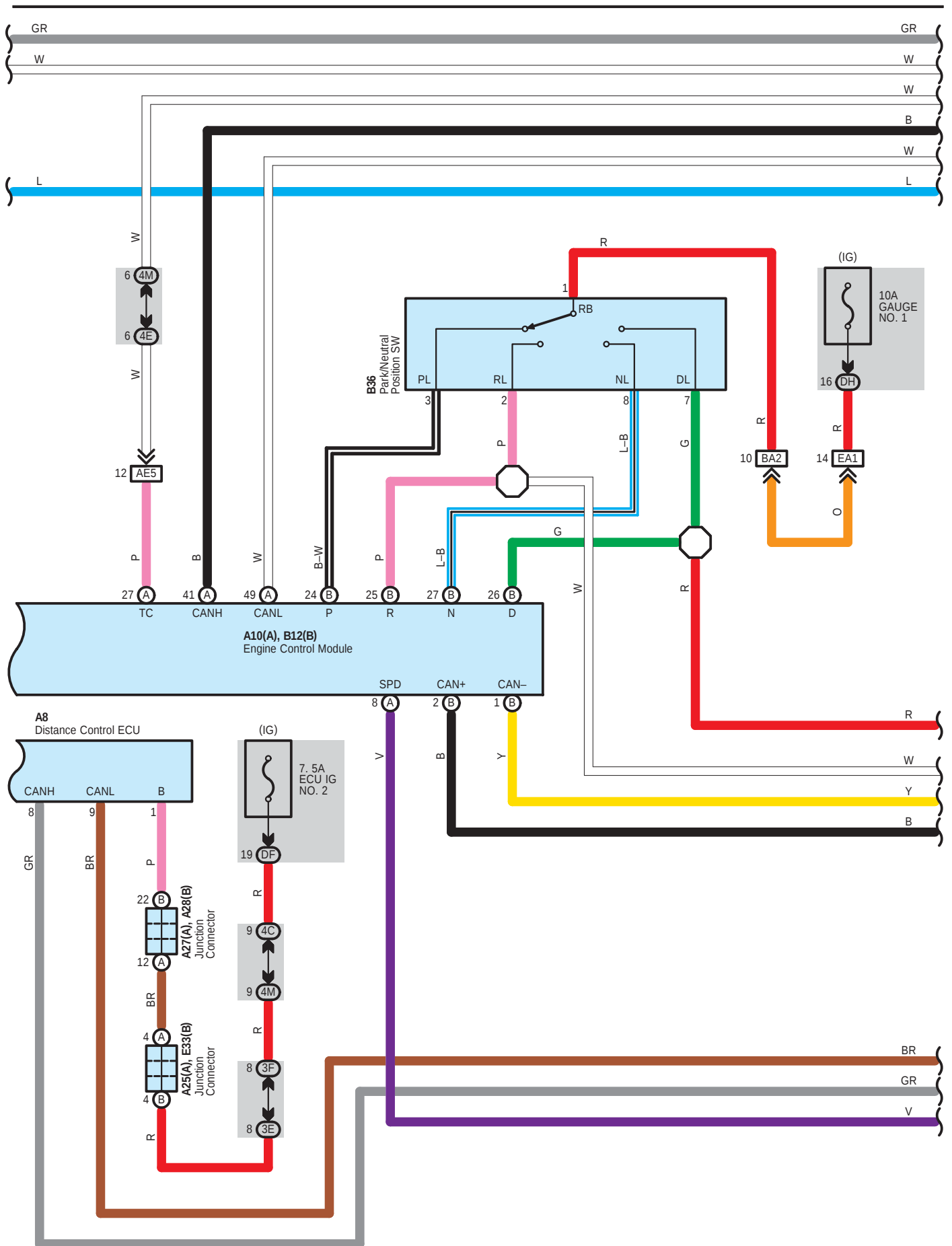
Dynamic Radar Cruise Control



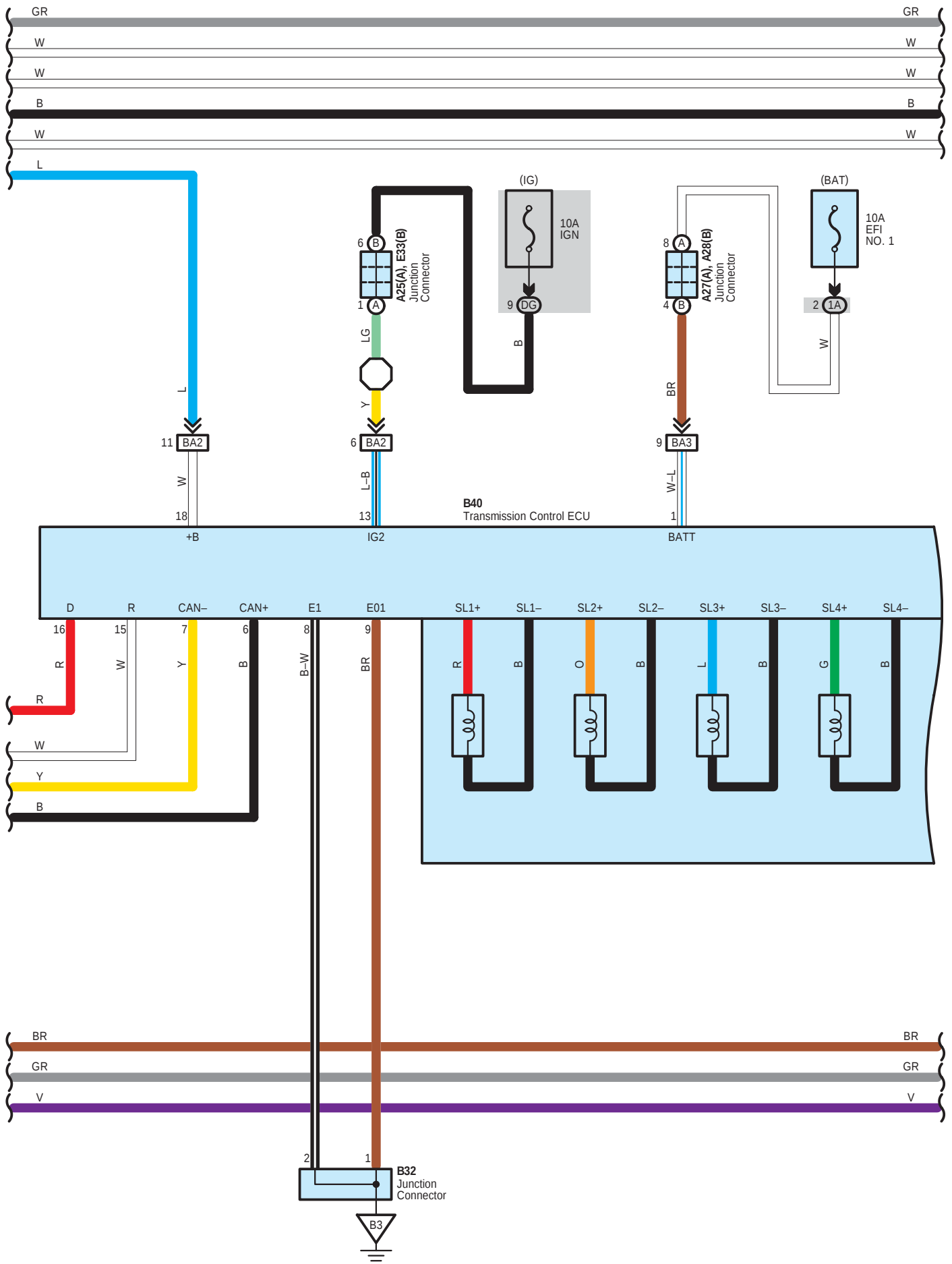


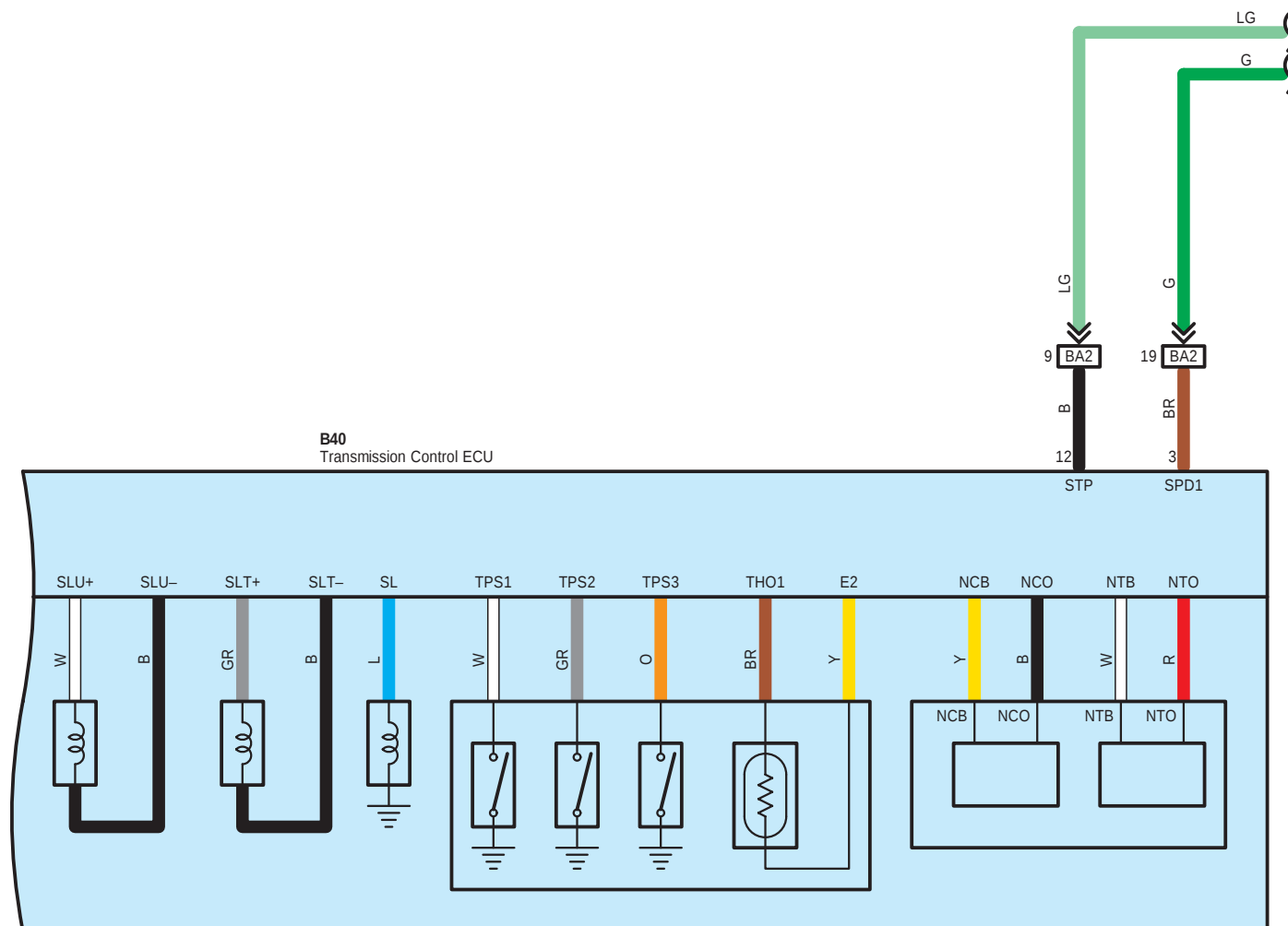
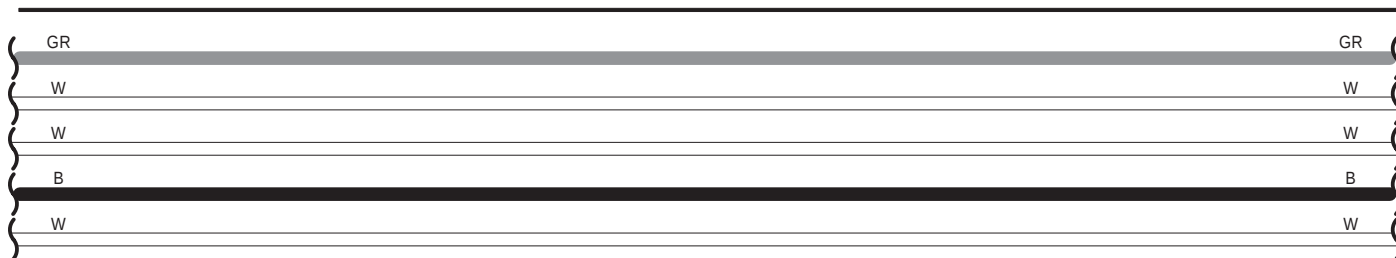
Dynamic Radar Cruise Control



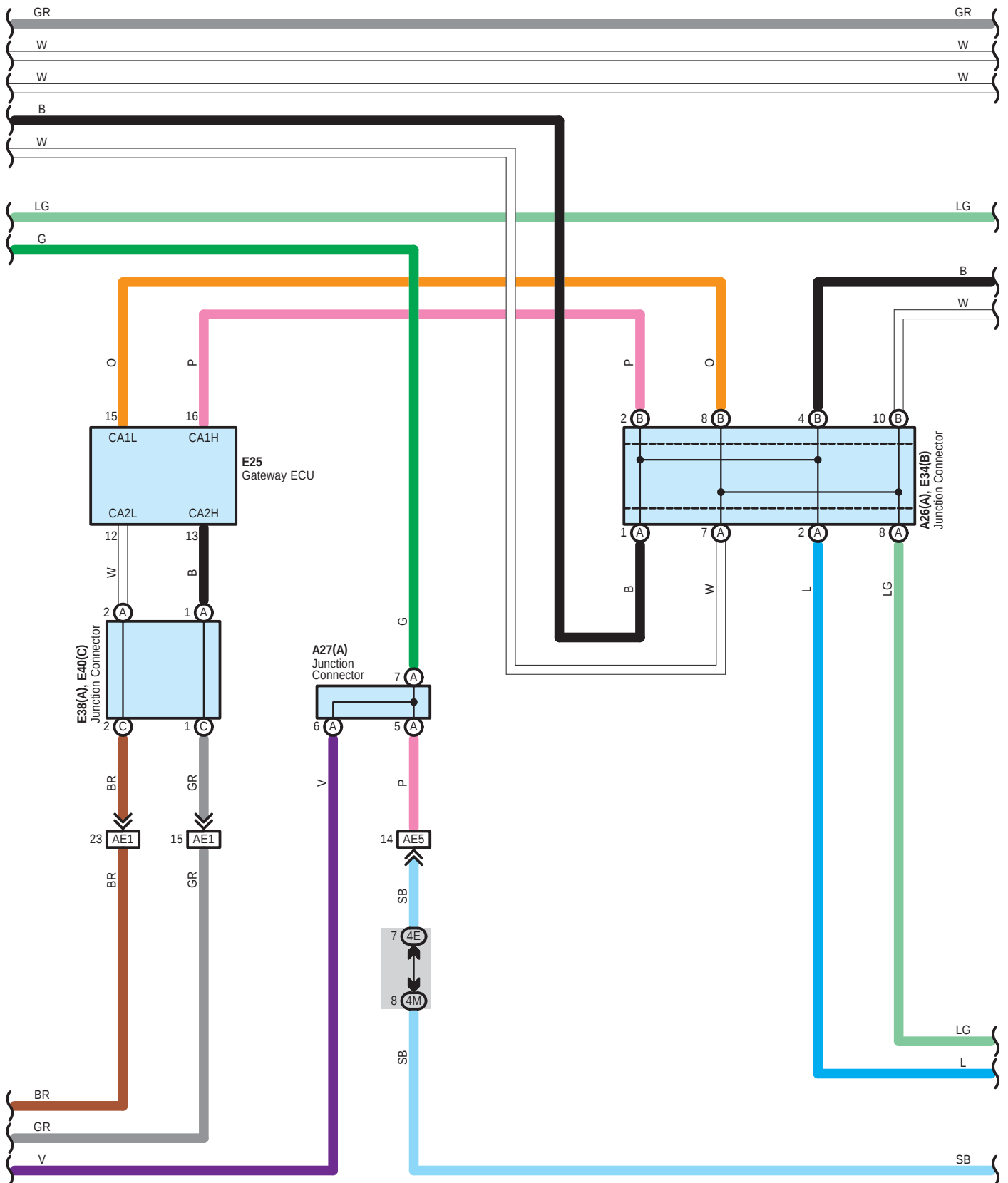


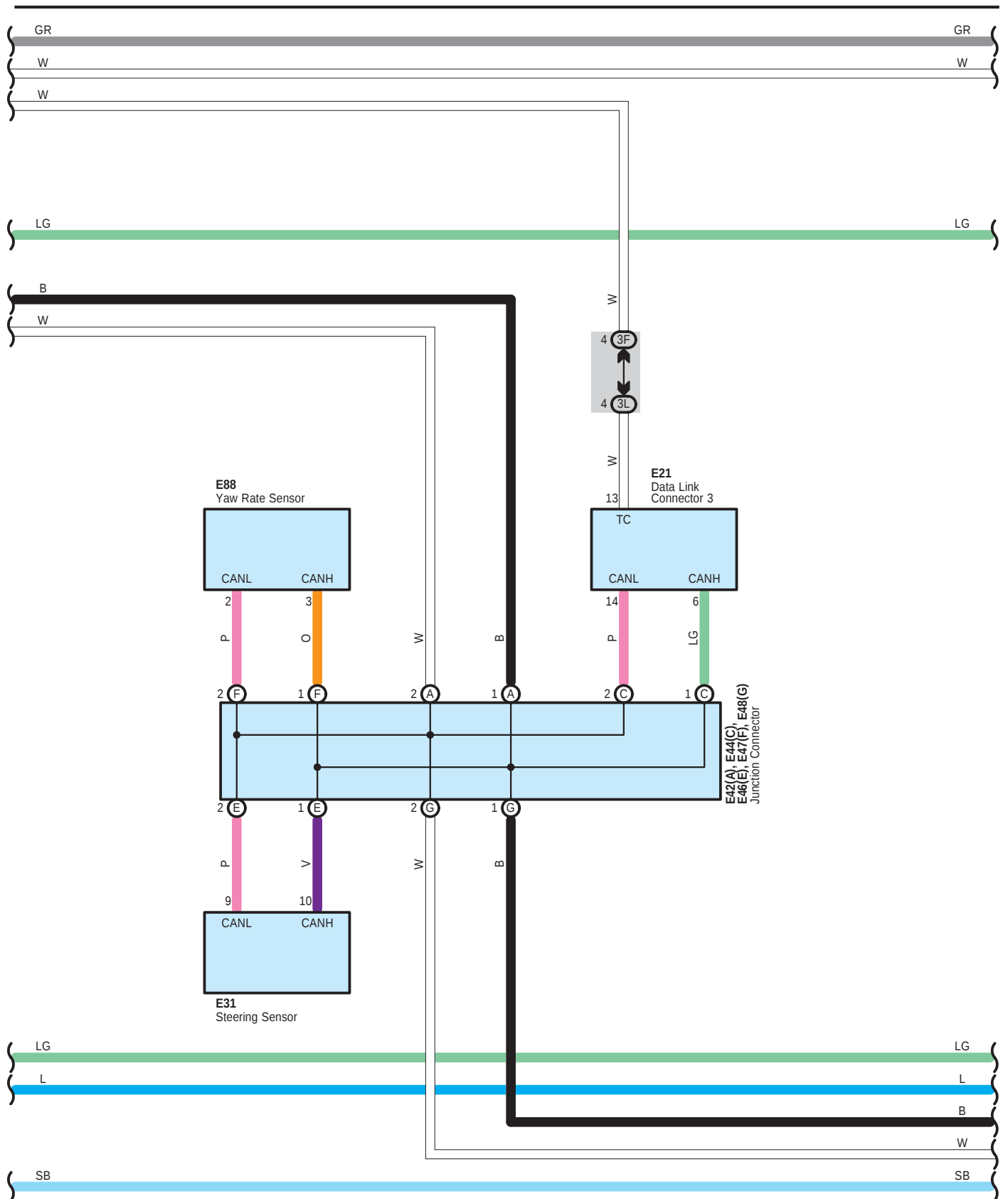
Dynamic Radar Cruise Control



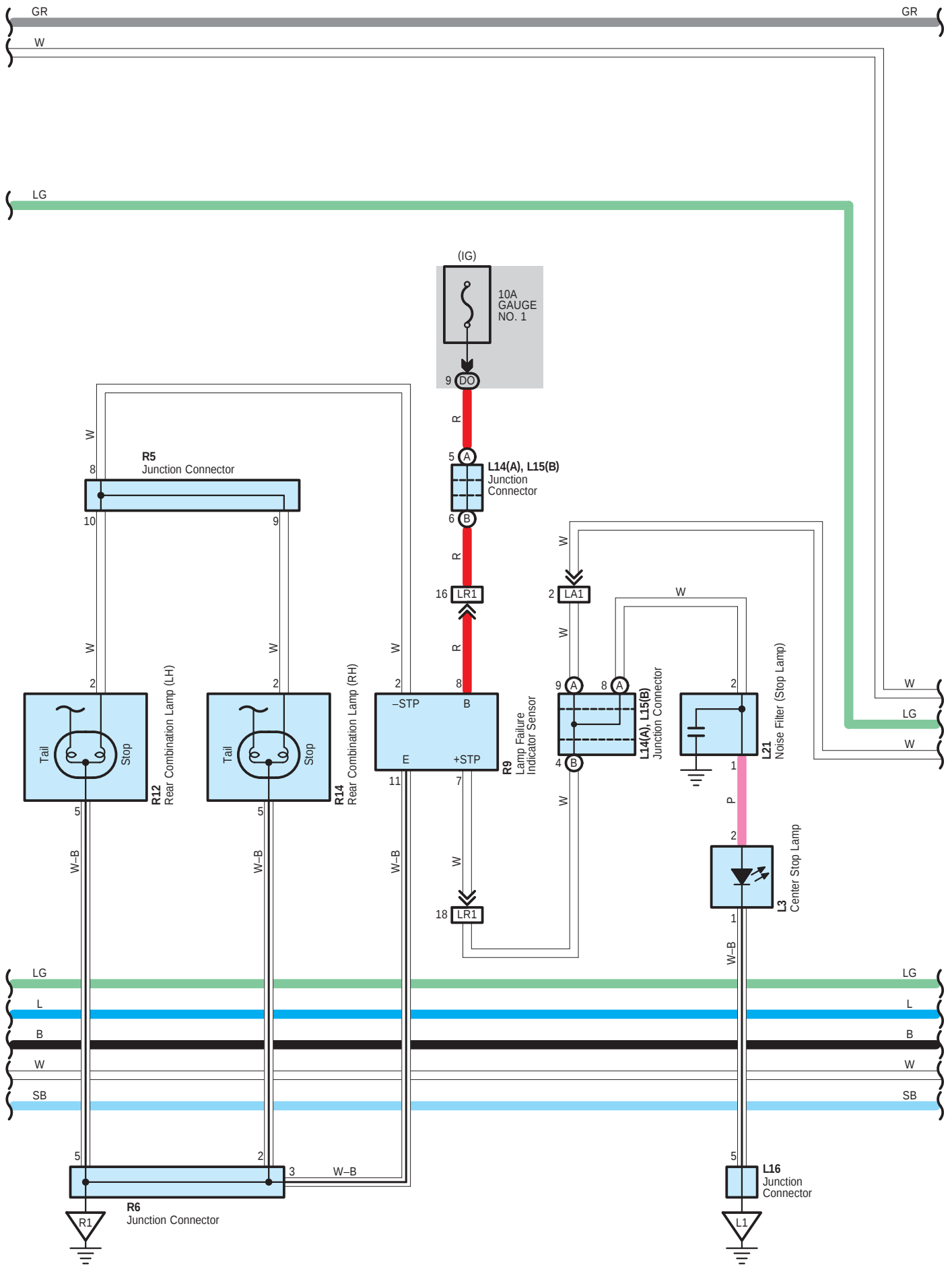


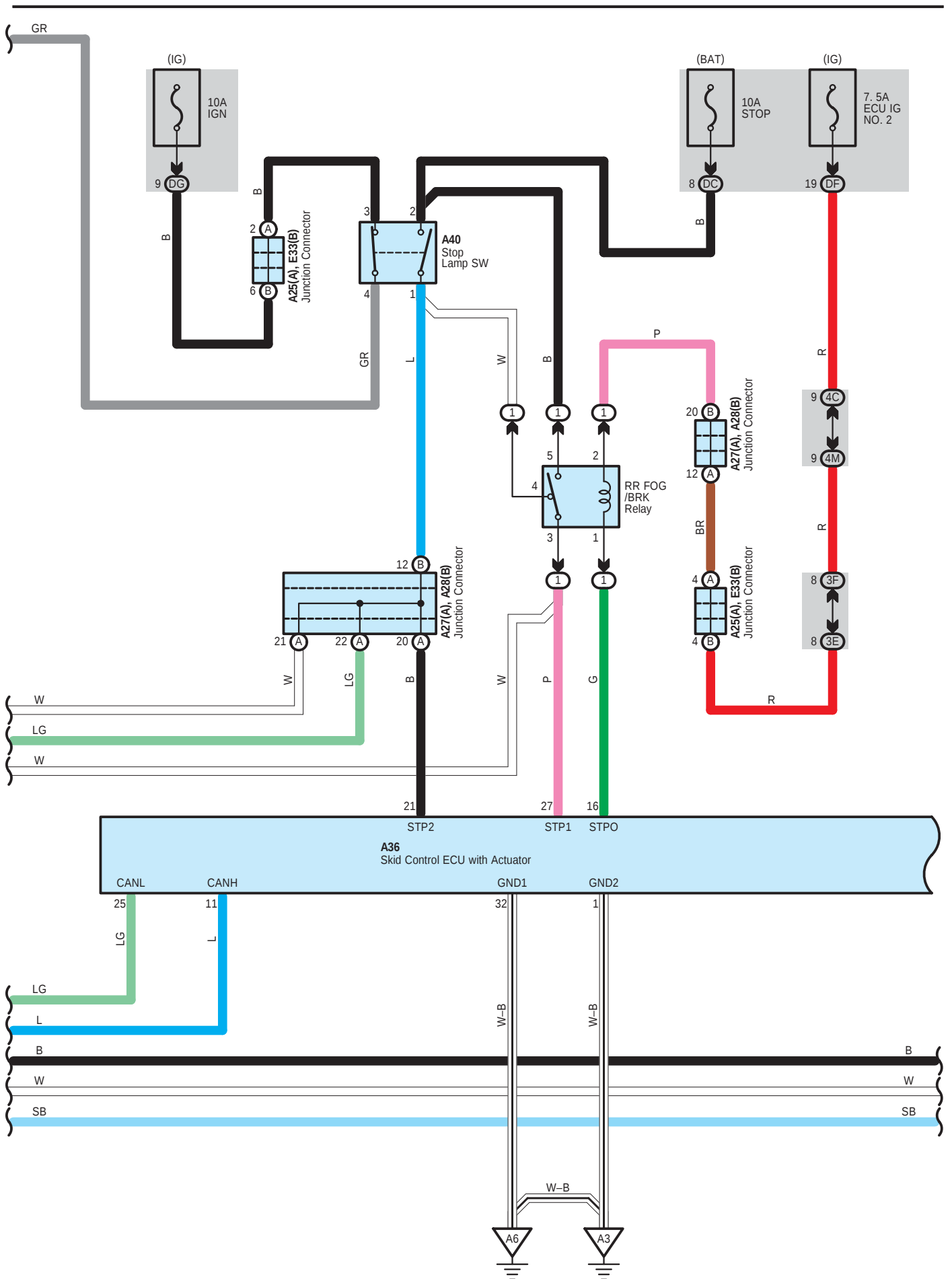
Dynamic Radar Cruise Control



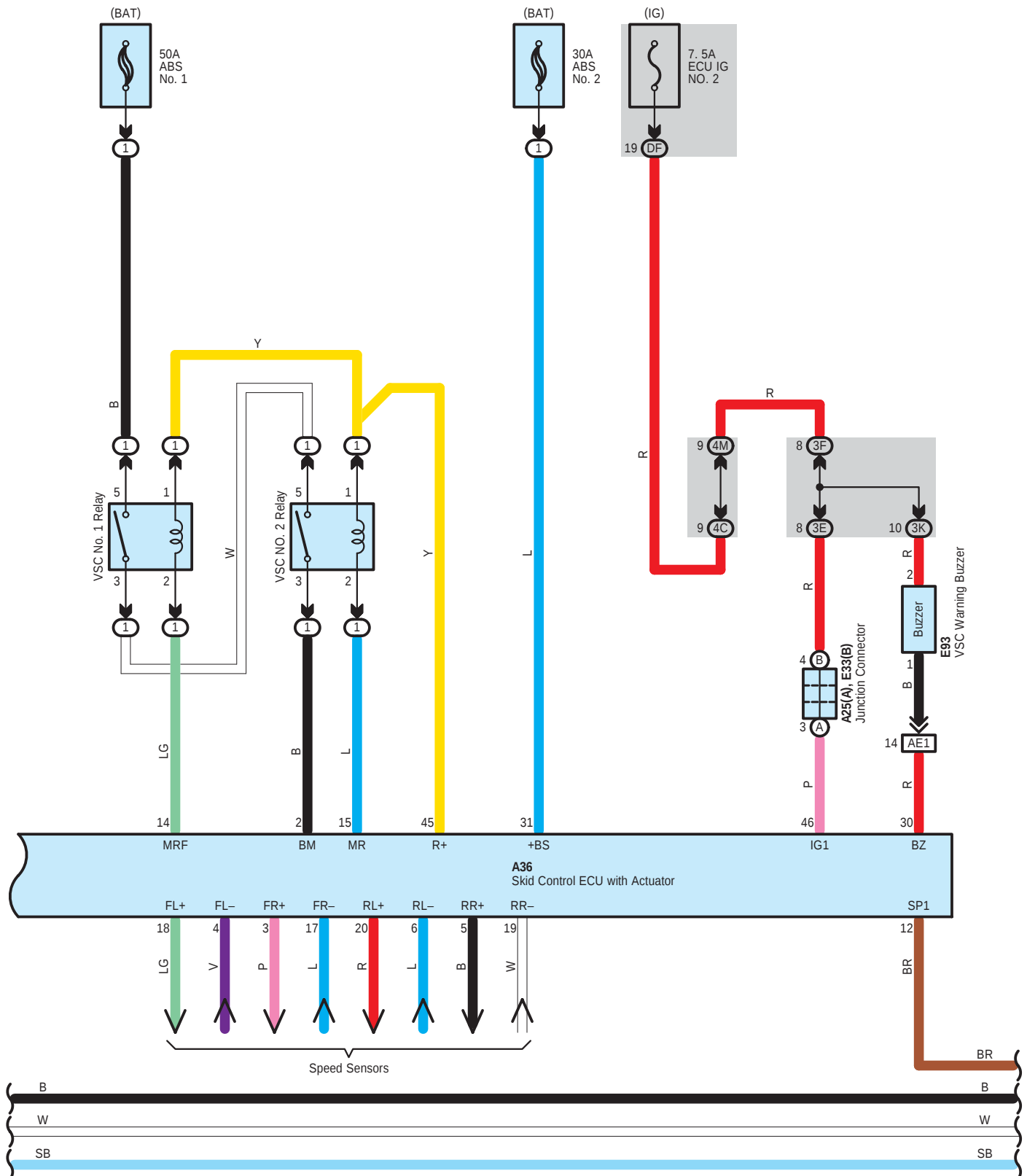


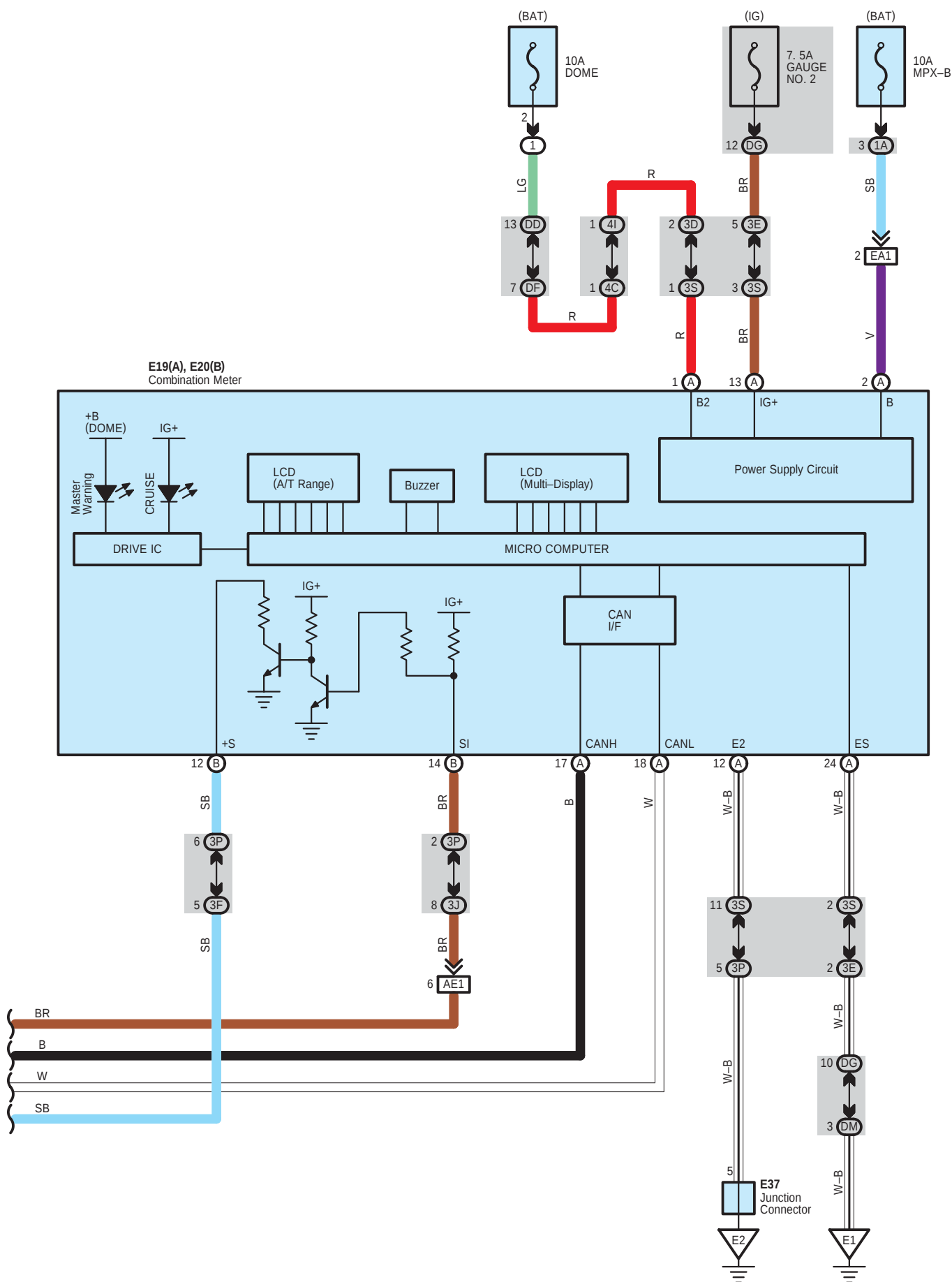
Dynamic Radar Cruise Control





Dynamic Radar Cruise Control





System Outline

1. Setting

<In vehicle-to-vehicle distance control mode>

When the – SET SW is operated with the ON–OFF SW ON (The cruise operation indicator is lit) at a vehicle speed above the lower settable vehicle speed limit, the vehicle speed at which the – SET SW is turned OFF is stored as the set vehicle speed and the vehicle is controlled to maintain that speed. However, when the – SET SW is operated at a speed that exceeds the higher settable vehicle speed limit, the higher settable vehicle speed limit is stored as the set vehicle speed and the vehicle is controlled to maintain that speed.

<In constant speed control mode>

When the – SET SW is operated with the ON–OFF SW ON (The cruise operation indicator is lit), when the vehicle is traveling at between the lower settable vehicle speed limit and the high speed limit, the vehicle speed at which the – SET SW is turned OFF is stored as the set vehicle speed and the vehicle is controlled to maintain that speed.

2. Method for Changing Set Vehicle Speed

<In vehicle-to-vehicle distance control mode>

(1) Lowering the set vehicle speed

When the – SET SW is momentarily operated (For approximately 0.6 seconds), during cruise control driving, the set vehicle speed decreases in increments of 5 mph for U.S.A. models and 5 km/h for other models for each SW operation.

When the – SET SW is held ON, the set vehicle speed decreases continuously in increments of 5 mph for U.S.A. models and 5 km/h for other models until the SW is turned OFF.

However, if the set vehicle speed reaches the lower settable vehicle speed limit, the set vehicle speed cannot be decreased any further.

When the set vehicle speed is changed, the vehicle decelerates (or may accelerate) to that speed.

NOTE:

The actual vehicle speed is not set if the – SET SW is operated and turned OFF after the vehicle is accelerated by using the accelerator pedal. In such cases, the set vehicle speed decreases by 5 mph for U.S.A. models and 5 km/h for other models, as described above.

(2) Raising the set vehicle speed

* When the + RES SW is momentarily operated (For approximately 0.6 seconds), the set vehicle speed increases in increments of 5 mph for U.S.A. models and 5 km/h for other models for each SW operation.

When the SW is held ON, the set vehicle speed increases continuously in increments of 5 mph for U.S.A. models and 5 km/h for other models until the SW is turned off.

However, if the set vehicle speed reaches the higher settable vehicle speed limit, the set vehicle speed cannot be increased any further.

When the set vehicle speed is changed, the vehicle accelerates (or may decelerate) to that speed.

* When the + RES SW is turned ON during follow-up control, the vehicle speed does not increase and the follow-up control continues. However, the set vehicle speed is changed.

<In constant speed control mode>

(1) Deceleration

* When the – SET SW is turned ON during cruise control driving, the vehicle decelerates. When the SW is turned OFF, the actual vehicle speed is stored as the set vehicle speed and the vehicle is controlled to maintain that speed. If the – SET SW is turned from ON to OFF when the actual vehicle speed exceeds the high speed limit while the vehicle runs down a slope; the vehicle is controlled using the high speed limit as the set vehicle speed.

* When the – SET SW is momentarily operated (For approximately 0.6 seconds), the set vehicle speed decreases in increments of 1.6 km/h (1 mph) for each SW operation. However, if the SW is operated when the set vehicle speed differs from the actual vehicle speed by 5 km/h (3 mph) or more, the actual vehicle speed at which the SW is turned OFF is stored in the memory and the vehicle is controlled to maintain that speed.

(2) Acceleration

* When the + RES SW is turned ON during cruise control driving, the vehicle accelerates while the SW is ON. When the SW is turned OFF, the vehicle speed is stored as the set vehicle speed and the vehicle is controlled to maintain that speed.

When the actual vehicle speed exceeds the high speed limit during the + RES SW operation, the vehicle is controlled using the high speed limit until the SW operation ends. After the SW operation, the high speed limit is stored as the set vehicle speed and the vehicle is controlled to maintain that speed.

* When the + RES SW is operated momentarily (For approximately 0.6 seconds), the set vehicle speed increases in increments of 1.6 km/h (1 mph) for each SW operation. However, if the SW is operated when the set vehicle speed differs from the actual vehicle speed by 5 km/h (3 mph) or more, the set speed is not changed.

* When the – SET SW is operated after vehicle acceleration using the accelerator pedal, the set vehicle speed is reset to the vehicle speed at which the – SET SW is turned OFF. However, the SW operation has no effect when the actual vehicle speed is higher than the high speed limit.

3. Lower Settable Vehicle Speed Limit

- * This refers to the lower limit of the settable speed range and is approximately 45 km/h (27 mph). It is different from the low limit speed.
- * No set vehicle speed is stored in the memory when the vehicle runs below the lower settable vehicle speed limit.

4. Low Speed Limit

This refers to the lower limit of the operating speed range and is approximately 40 km/h (25 mph). When the vehicle speed decreases to below 40 km/h (25 mph) during cruise control driving, the cruise control is automatically canceled. However, vehicle-to-vehicle distance control mode and constant speed control mode retain the set vehicle speed stored in the memory.

5. Higher Settable Vehicle Speed Limit (Only in Vehicle-to-Vehicle Distance Control Mode)

This refers to the upper limit of the settable speed range in vehicle-to-vehicle distance control mode and is approximately 135 km (85 mph).

6. High Speed Limit (Only in Constant Speed Control Mode)

This refers to the upper limit of the settable speed range in constant speed control mode and is approximately 200 km/h (125 mph).

7. Resume

- * If the cruise control is canceled during cruise control driving, and the + RES SW is turned ON while the actual vehicle speed is higher than the low speed limit, the vehicle speed control automatically resumes to maintain the vehicle speed that was stored before the cruise control was canceled.
- * Under follow-up control, when the driver or the vehicle ahead changes lanes and the road ahead becomes clear, the vehicle accelerates automatically and gradually to the set vehicle speed. When the + RES SW is turned ON at this time, the vehicle speed is rapidly increased (Only in vehicle-to-vehicle distance control mode).

8. Shift-Down Control

When the vehicle climbs a hill while running under cruise control, the gear may be shifted down by the A/T control. When the hill climb is judged to have finished, based on the throttle opening information, the gear is shifted up after a set time.

9. Cancel

Cruise control is canceled if any of the following signals are input during cruise control driving (Set vehicle speed is not erased).

- (1) Stop lamp SW ON (Brake pedal depressed)
- (2) D position circuit in neutral start SW from ON to OFF*
 - * Shift lever moved from D to N
 - * Gear changes to 3, 2, or 1 in sequential shift mode (Shift lever in S)
- (3) CANCEL SW or CONTROL SW ON
- (4) ON-OFF SW OFF (Set vehicle speed erased)
- (5) VSC activation

Dynamic Radar Cruise Control

: Parts Location

Code		See Page	Code		See Page	Code		See Page
A2		60	E20	B	58	E84		59
A8		60	E21		58	E88		59
A10	A	54	E25		58	E93		59
A25	A	60	E28	A	58	L3		62
A26	A	60	E29	B	58	L14	A	62
A27	A	60	E30	A	58	L15	B	62
A28	B	60	E31		58	L16		62
A31		54	E33	B	58	L21		62
A36		55	E34	B	58	R5		65
A40		60	E37		58	R6		65
B12	B	56	E38	A	46, 58	R9		65
B32		57	E40	C	46, 58	R12		65
B36		57	E42	A	48, 59	R14		65
B39		57	E44	C	48, 59	d1	B	61
B40		57	E46	E	48, 59	e1	C	61
E11		58	E47	F	48, 59			
E19	A	58	E48	G	48, 59			

: Relay Blocks

Code	See Page	Relay Blocks (Relay Block Location)
1	22	Engine Room R/B (Engine Compartment Left)

: Junction Block and Wire Harness Connector

Code	See Page	Junction Block and Wire Harness (Connector Location)
1A	24	Engine Room Main Wire and Engine Room J/B (Engine Compartment Left)
1E		
3A	36	Instrument Panel Wire and J/B No.3 (Instrument Panel Left)
3D		
3E		
3F		
3J		
3K		
3L		
3P		
3S		
3U		
4C	42	Instrument Panel Wire and J/B No.4 (Instrument Panel Right)
4D		
4E		
4I		
4L		
4M		
DC	30	Engine Room Main Wire and Instrument Panel J/B (Lower Finish Panel)
DD		
DF	30	Instrument Panel Wire and Instrument Panel J/B (Lower Finish Panel)
DG	31	
DH		
DM	30	
DO	30	Floor Wire and Instrument Panel J/B (Lower Finish Panel)

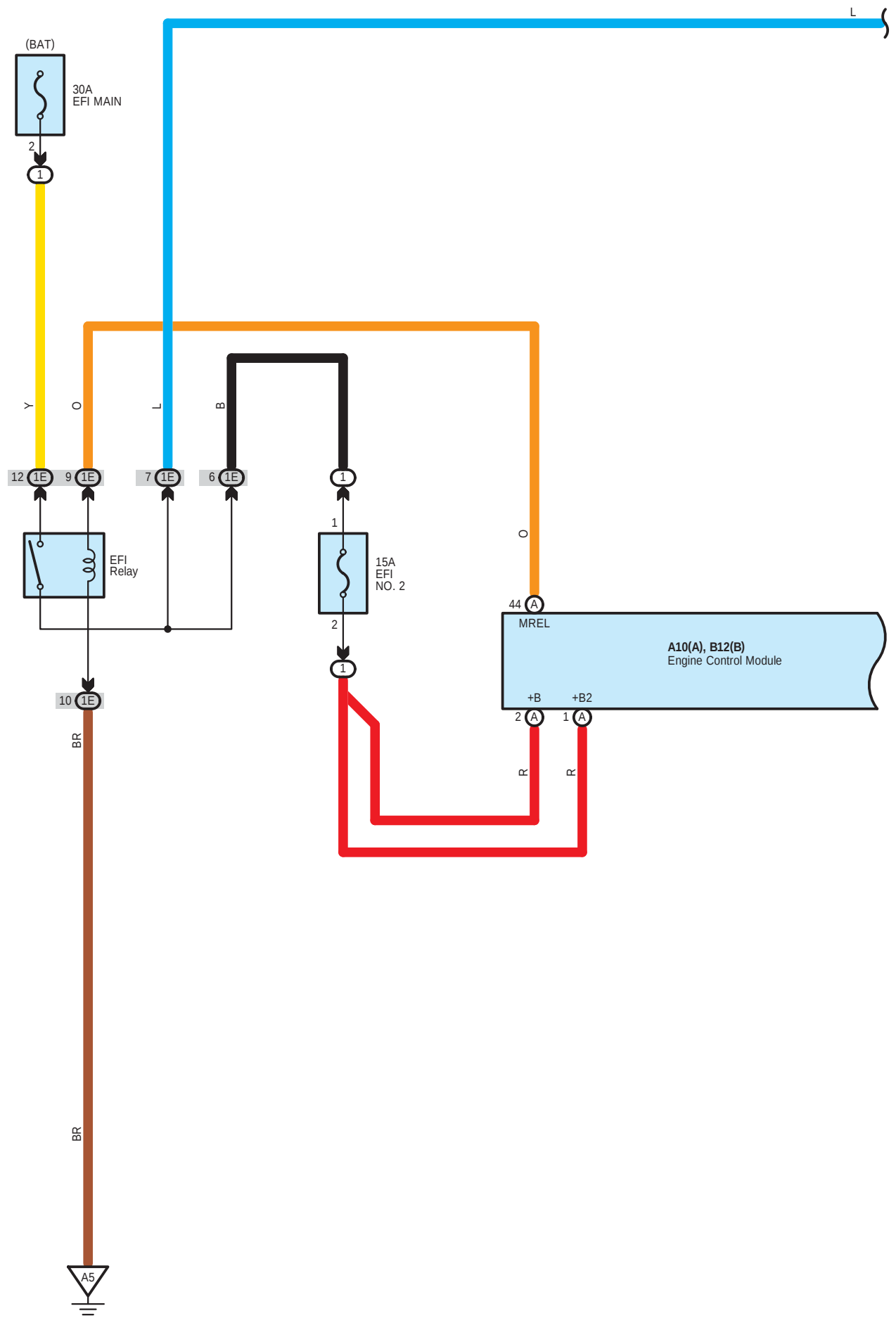
 : Connector Joining Wire Harness and Wire Harness

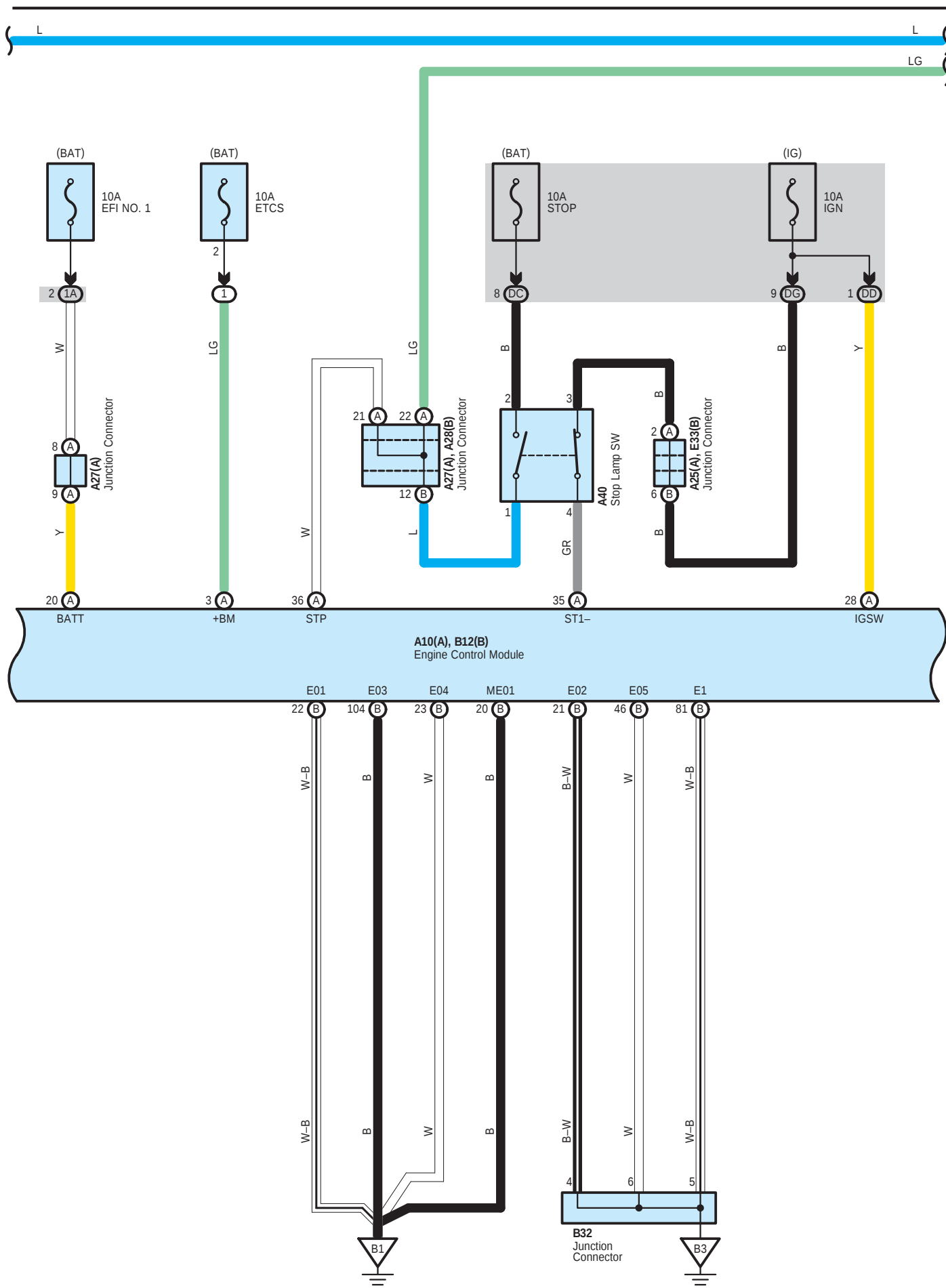
Code	See Page	Joining Wire Harness and Wire Harness (Connector Location)
AA1	69	Engine Room Main Wire and Engine Room Main Wire (Cowl Side Right)
AE1	69	Engine Room Main Wire and Instrument Panel Wire (Instrument Panel Right)
AE2	69	Engine Room Main Wire and Instrument Panel Wire (Instrument Panel Left)
AE5	69	Engine Room Main Wire and Instrument Panel Wire (Instrument Panel Right)
BA2	68	Engine Wire and Engine Room Main Wire (Inside of the Engine Room R/B and Engine Room J/B)
BA3		
EA1	69	Instrument Panel Wire and Engine Room Main Wire (Left Kick Panel)
LA1	69	Floor Wire and Engine Room Main Wire (Cowl Side Left)
LR1	70	Floor Wire and Luggage Room Wire (Roof Side Rear Inner Panel LH)

 : Ground Points

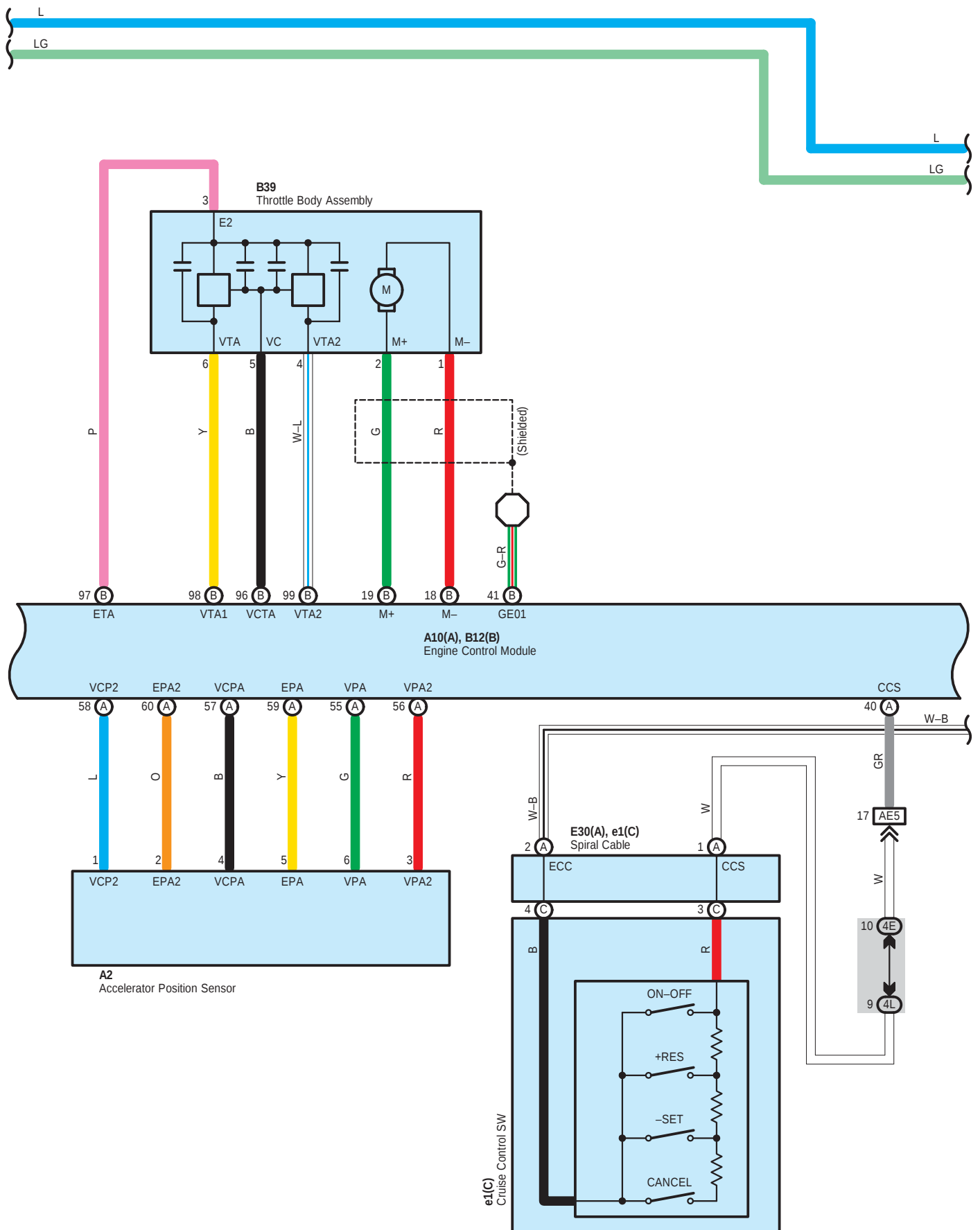
Code	See Page	Ground Points Location
A3	68	Front Right Fender Apron
A5	69	Cowl Side Left
A6	69	Cowl Side Right
B1	68	Left Side of the Cylinder Head
B3	68	Right Side of the Cylinder Block
E1	69	Left Side of the Instrument Panel Reinforcement
E2	69	Instrument Panel Brace LH
L1	70	Rear Pillar LH
R1	70	Roof Side Rear Inner Panel LH

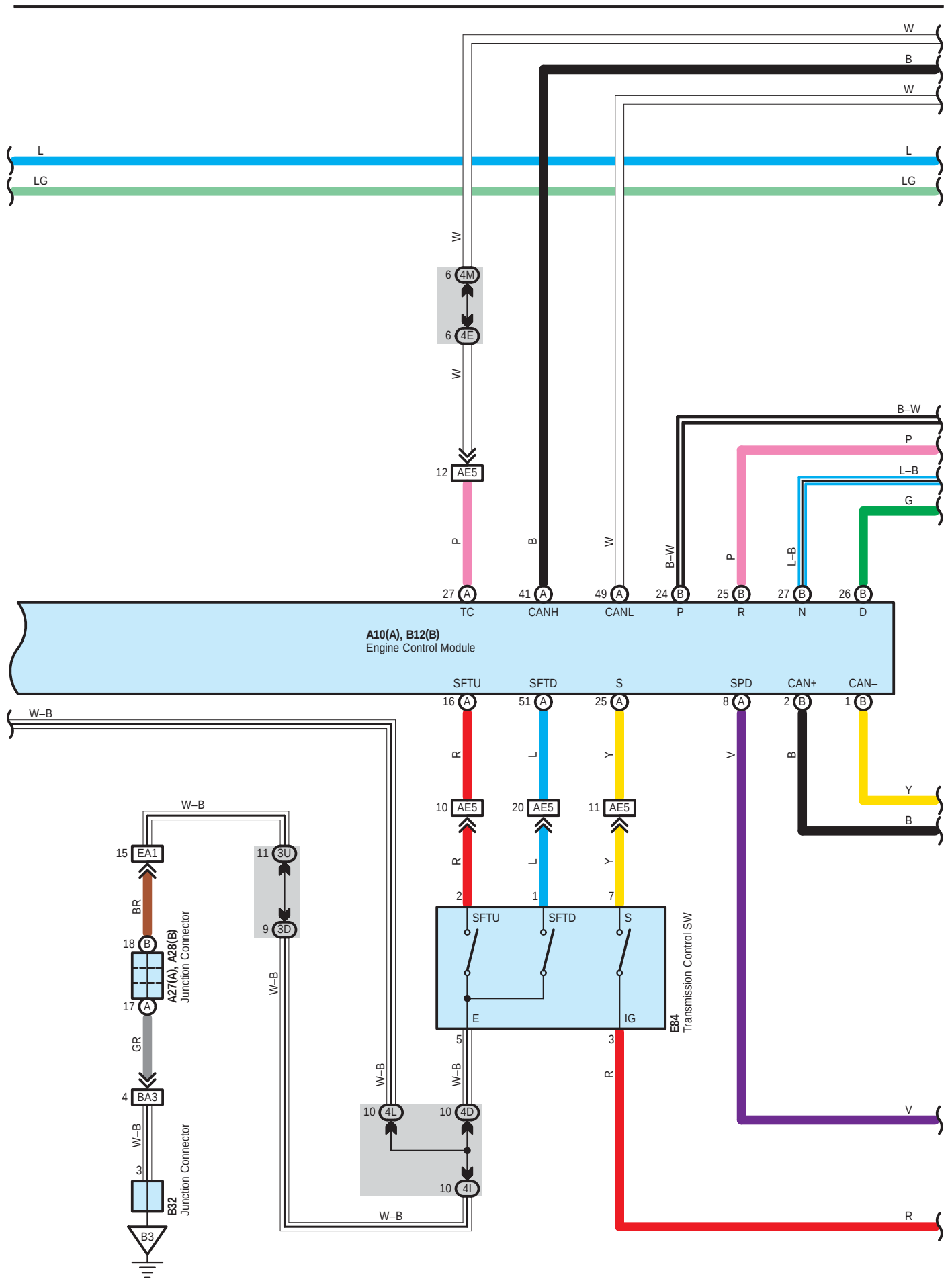
Cruise Control



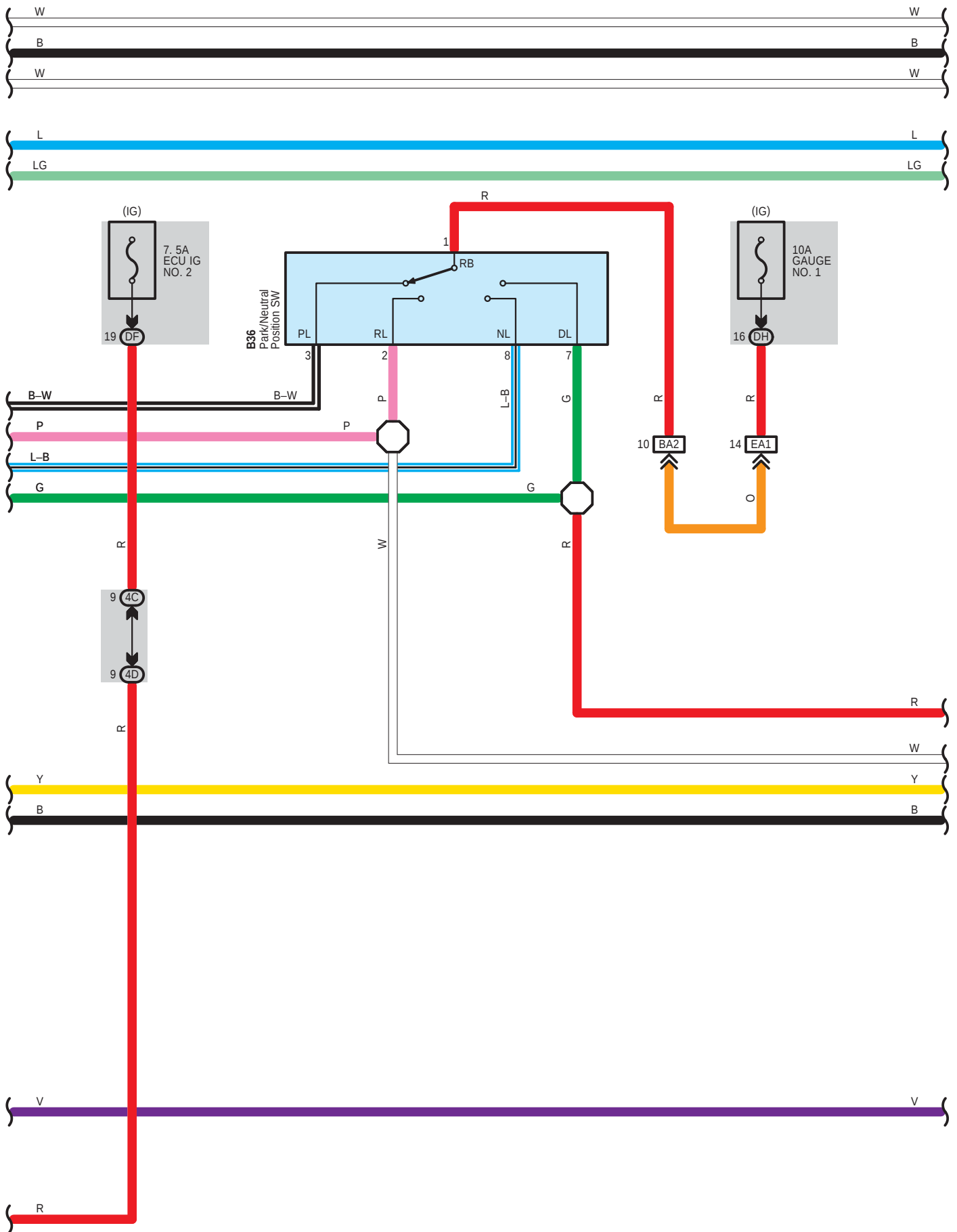


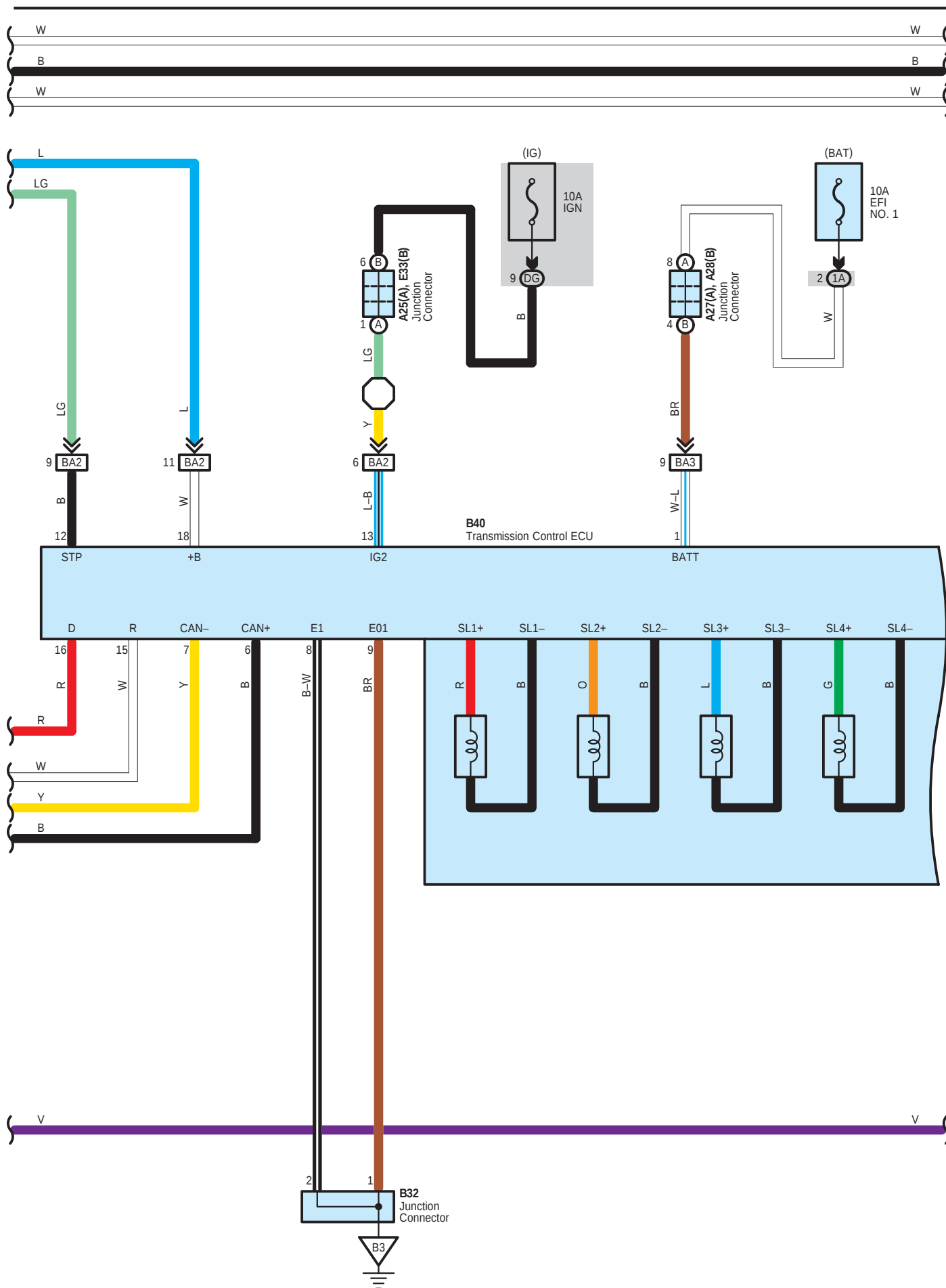
Cruise Control



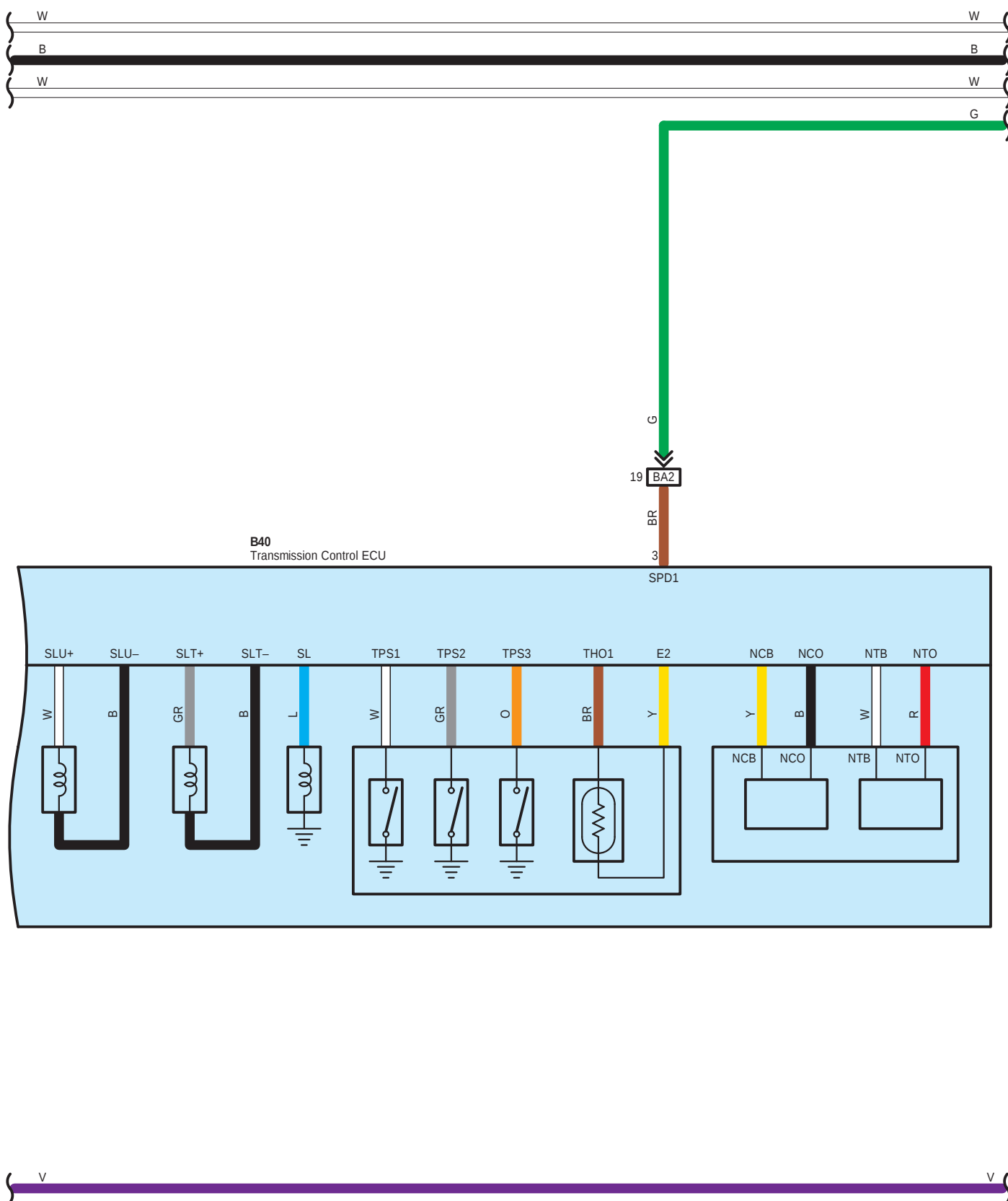


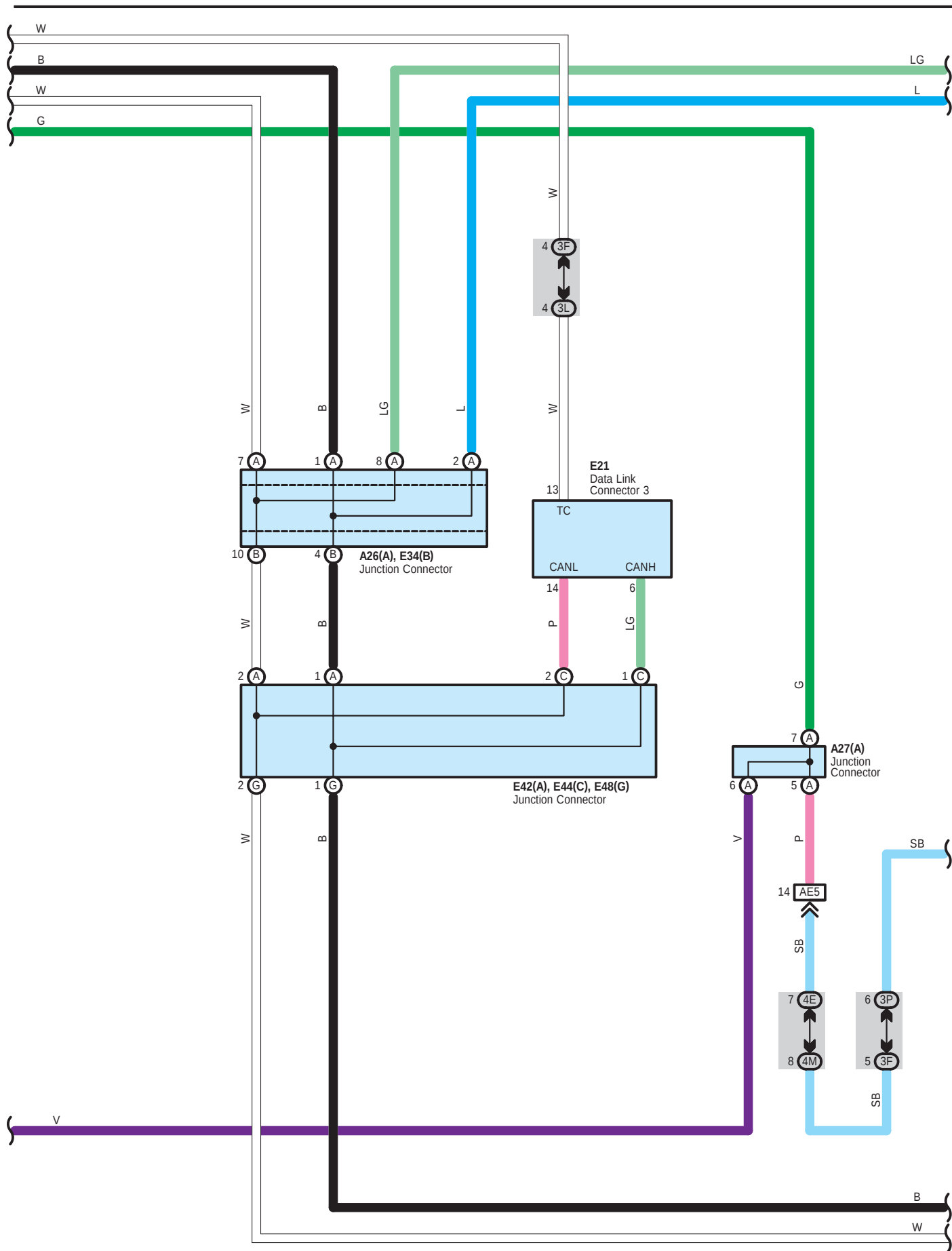
Cruise Control



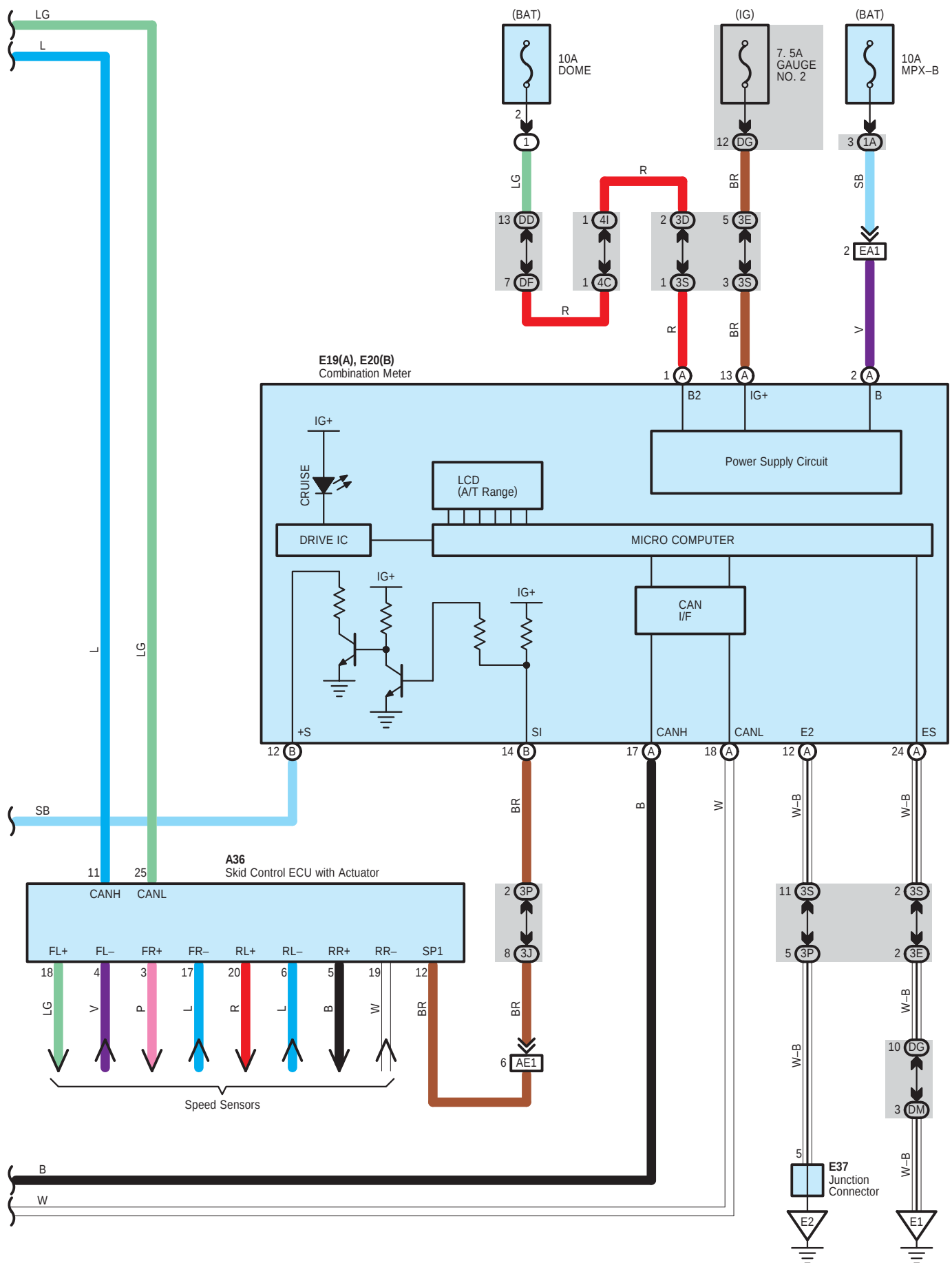


Cruise Control





Cruise Control



System Outline

The cruise control system is a constant vehicle speed controller that allows the opening of the engine throttle valve to be automatically adjusted through hand switch operations without depressing the accelerator pedal when a driver wishes to drive at a constant speed on a highway.

1. Constant Speed Control

When the actual vehicle speed is higher than the set vehicle speed, a signal is sent to operate the electric throttle motor in order to close the throttle valve. Conversely, when the vehicle speed is lower than the set vehicle speed, a signal is sent to operate the electric throttle motor in order to open the throttle valve.

2. Setting

When the – SET SW is operated with the ON–OFF SW ON (Within the settable vehicle speed range; above the low speed limit and below the high speed limit), the vehicle speed at which the SW is turned OFF is stored in the memory and the vehicle is controlled to maintain that speed.

3. Coast, Tap Down

<Coast>

When the – SET SW is held ON during cruise control driving, the coast control makes the cruise control request opening 'zero' (Note: the throttle valve is not completely closed due to idle speed control, etc) to reduce the vehicle speed, stores in the memory the vehicle speed at which the SW is turned OFF, and controls the vehicle to maintain that speed.

<Tap down>

When the – SET SW is turned ON momentarily (For approximately 0.6 seconds), the set vehicle speed decreases in increments of approximately 1.6 km/h (1 mph) for each SW operation. When the difference between the set vehicle speed and the actual vehicle speed is more than 5 km/h (3 mph), the vehicle speed at which the SW is turned OFF is stored in the memory and the vehicle is controlled to maintain that speed.

4. Acceleration, Tap Up

<Acceleration>

When the + RES SW is held ON during cruise control driving, the acceleration control operates the electric throttle motor to open the throttle valve to accelerate the vehicle. The vehicle speed at which the SW is turned OFF is stored in the memory and the vehicle is controlled to maintain that speed.

<Tap up>

When the + RES SW is turned ON momentarily (For approximately 0.6 seconds), the set vehicle speed increases in increments of approximately 1.6 km/h (1 mph) for each SW operation. When the difference between the set vehicle speed and the actual vehicle speed is more than 5 km/h (3 mph), the tap up operation does not change the set vehicle speed.

5. Low Speed Limit

This refers to the lower limit of the settable speed range and is approximately 40 km/h (25 mph). Cruise control cannot be set if the vehicle speed is lower than the low speed limit. When the vehicle speed decreases to below the low speed limit during cruise control driving, the cruise control is automatically canceled.

<Set vehicle speed when vehicle decreases to below low speed limit>

The set vehicle speed is retained in the memory even if the vehicle speed decreases to below the low speed limit.

6. High Speed Limit

This refers to the upper limit of the settable speed range and is approximately 200 km/h (125 mph). Cruise control cannot be set if the vehicle speed exceeds the high speed limit. The vehicle cannot be accelerated to above the high speed limit using the + RES SW operation.

7. Cancel

When any of the following signals is input during cruise control driving, cruise control is canceled.

(1) Stop lamp SW ON

(2) CANCEL SW ON in the control SW

(3) ON–OFF SW OFF

(4) D position circuit ON to OFF in the park/neutral position SW (Shift position is changed from D, 6, 5 or 4 to N, 3, 2 or 1)

When the vehicle speed stays above the low speed limit after cruise control is canceled by one of the above signals and the + RES SW is turned from OFF to ON, the cruise control resumes and the vehicle is gradually accelerated to the set vehicle speed that was used before cancellation.

<Set vehicle speed when vehicle decreases to below low speed limit>

Since the set vehicle speed is retained in the memory even if the vehicle speed decreases to below the low speed limit, when the vehicle speed increases to above the low speed limit, the resume control operation is permitted.

Cruise Control

8. Shift-Down Control

When the vehicle climbs a hill while running under cruise control, the gear may be shifted down by the A/T control. When the hill climb is judged to have finished, based on the throttle opening information, the gear is shifted up after a set time. If the gear is shifted down during acceleration or resume control, the gear is shifted back up after the acceleration or resume control ends.

9. Auto Cancel

(1) The set vehicle speed is erased from the memory and the cruise control is canceled under the following conditions. In addition, the cruise operation indicator blinks until the ON-OFF SW is turned OFF and cruise control is prohibited until the SW is turned ON again.

- A) The stop lamp SW circuit is open or short
- B) The vehicle speed signal is abnormal
- C) Any electronic throttle parts are abnormal

(2) The set vehicle speed is erased from the memory and the cruise control is canceled under the following conditions. In addition, the cruise operation indicator blinks until the ON-OFF SW is turned OFF and cruise control remains prohibited unless the power SW is turned OFF.

- A) The stop lamp SW input circuit is abnormal
- B) The cancel circuit is abnormal

(3) Under the following condition, the set vehicle speed is erased from the memory and the cruise control is canceled because there is a possibility that the vehicle is overloaded or the set vehicle speed is too high (Cruise control can be resumed):

The vehicle speed is 16 km/h (10 mph) or more below the set vehicle speed. (Set vehicle speed deletion)

(4) If the following condition occurs, the cruise control is canceled.

The vehicle speed decreases to below the low speed limit.

<Set vehicle speed when vehicle decreases to below low speed limit>

The set vehicle speed is retained in the memory even if the vehicle speed decreases to below the low speed limit. (Resetting and resume control are possible)

○ : Parts Location

Code	See Page	Code	See Page	Code	See Page
A2	60	B32	57	E34	B 58
A10	A 54	B36	57	E37	58
A25	A 60	B39	57	E42	A 48, 59
A26	A 60	B40	57	E44	C 48, 59
A27	A 60	E19	A 58	E48	G 48, 59
A28	B 60	E20	B 58	E84	59
A36	55	E21	58	e1	C 61
A40	60	E30	A 58		
B12	B 56	E33	B 58		

○ : Relay Blocks

Code	See Page	Relay Blocks (Relay Block Location)
1	22	Engine Room R/B (Engine Compartment Left)



: Junction Block and Wire Harness Connector

Code	See Page	Junction Block and Wire Harness (Connector Location)
1A	24	Engine Room Main Wire and Engine Room J/B (Engine Compartment Left)
1E		
3D	36	Instrument Panel Wire and J/B No.3 (Instrument Panel Left)
3E		
3F		
3J		
3L		
3P		
3S		
3U		
4C	42	Instrument Panel Wire and J/B No.4 (Instrument Panel Right)
4D		
4E		
4I		
4L		
4M		
DC	30	Engine Room Main Wire and Instrument Panel J/B (Lower Finish Panel)
DD		
DF	30	Instrument Panel Wire and Instrument Panel J/B (Lower Finish Panel)
DG	31	
DH		
DM	30	



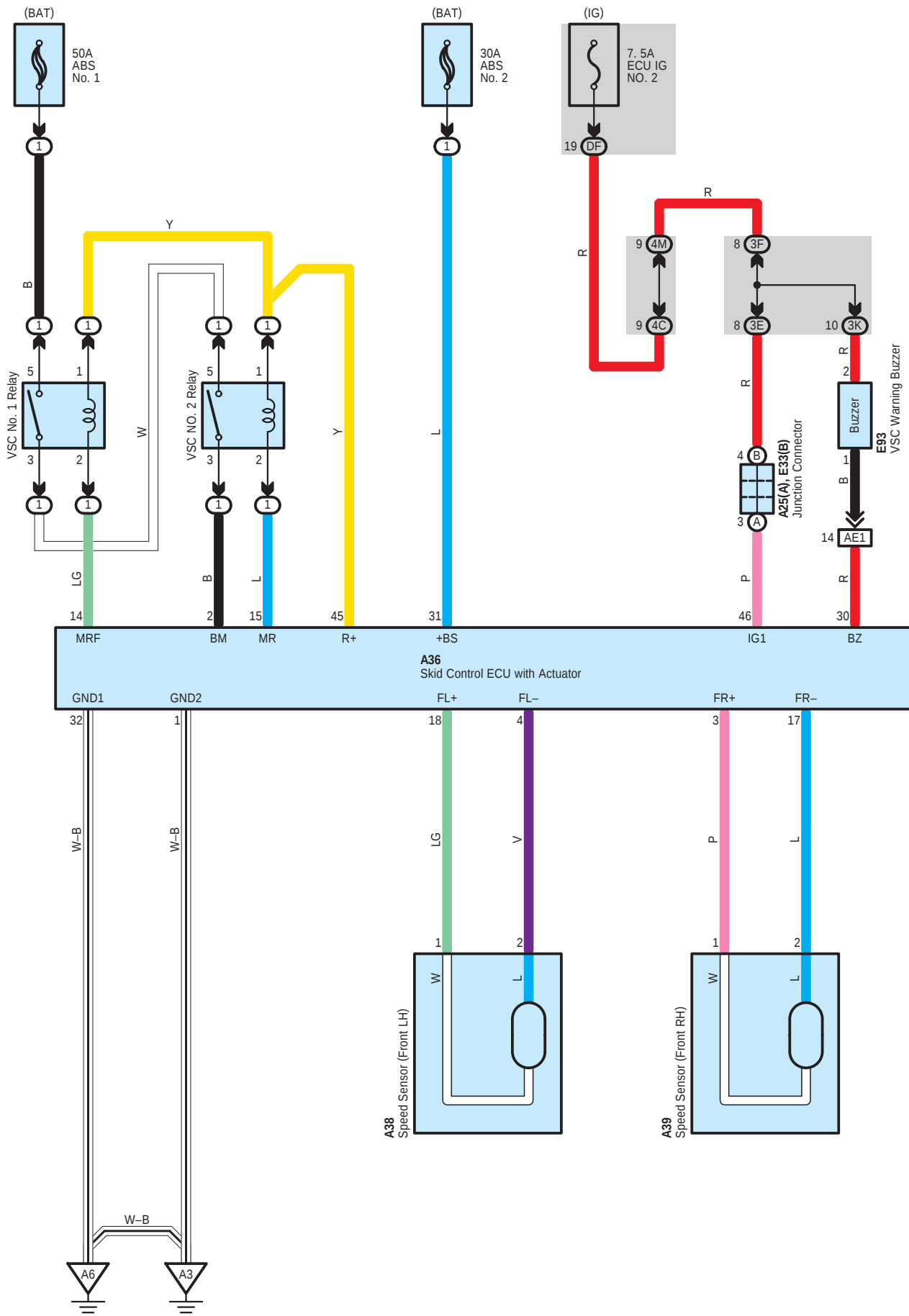
: Connector Joining Wire Harness and Wire Harness

Code	See Page	Joining Wire Harness and Wire Harness (Connector Location)
AE1	69	Engine Room Main Wire and Instrument Panel Wire (Instrument Panel Right)
AE5		
BA2	68	Engine Wire and Engine Room Main Wire (Inside of the Engine Room R/B and Engine Room J/B)
BA3		
EA1	69	Instrument Panel Wire and Engine Room Main Wire (Left Kick Panel)

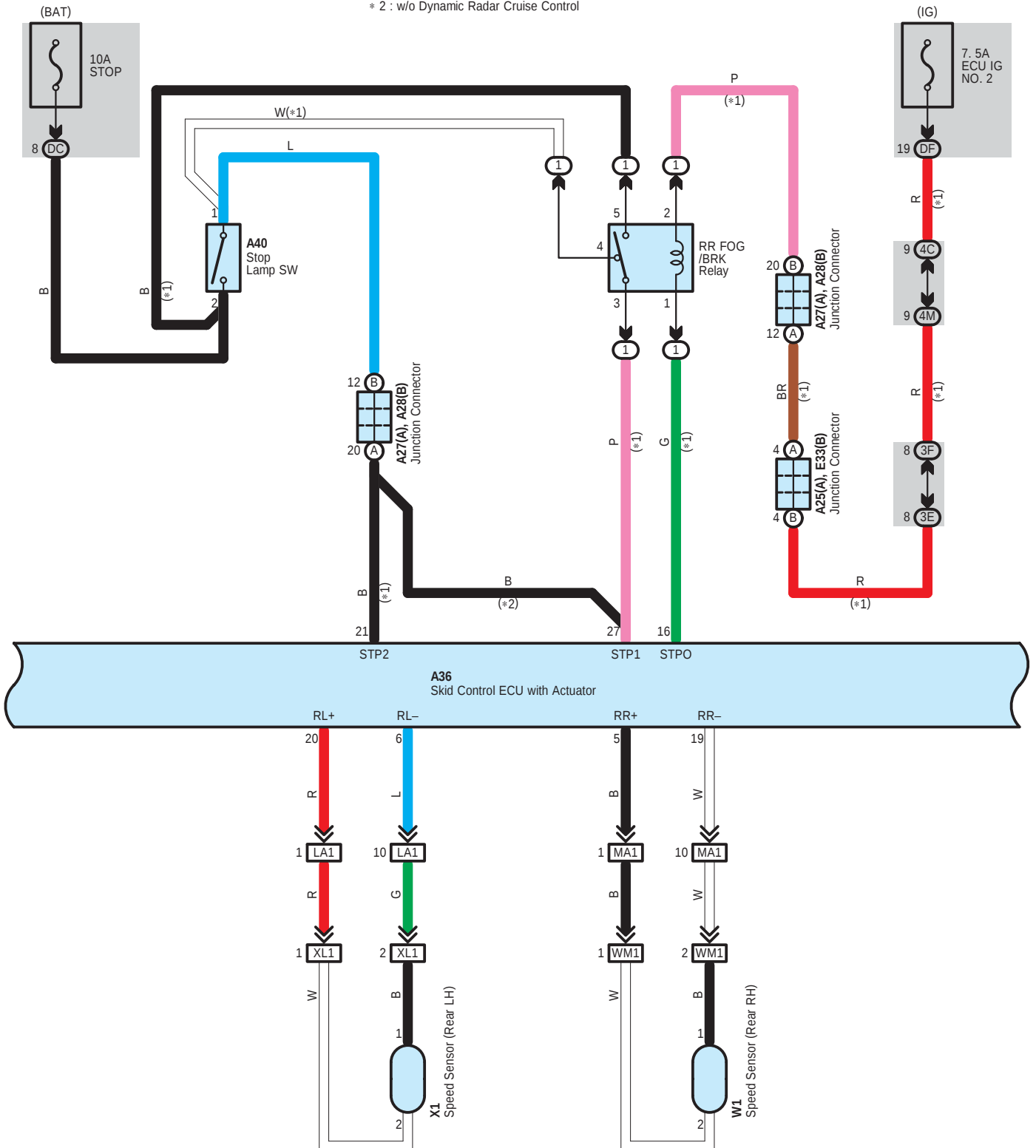


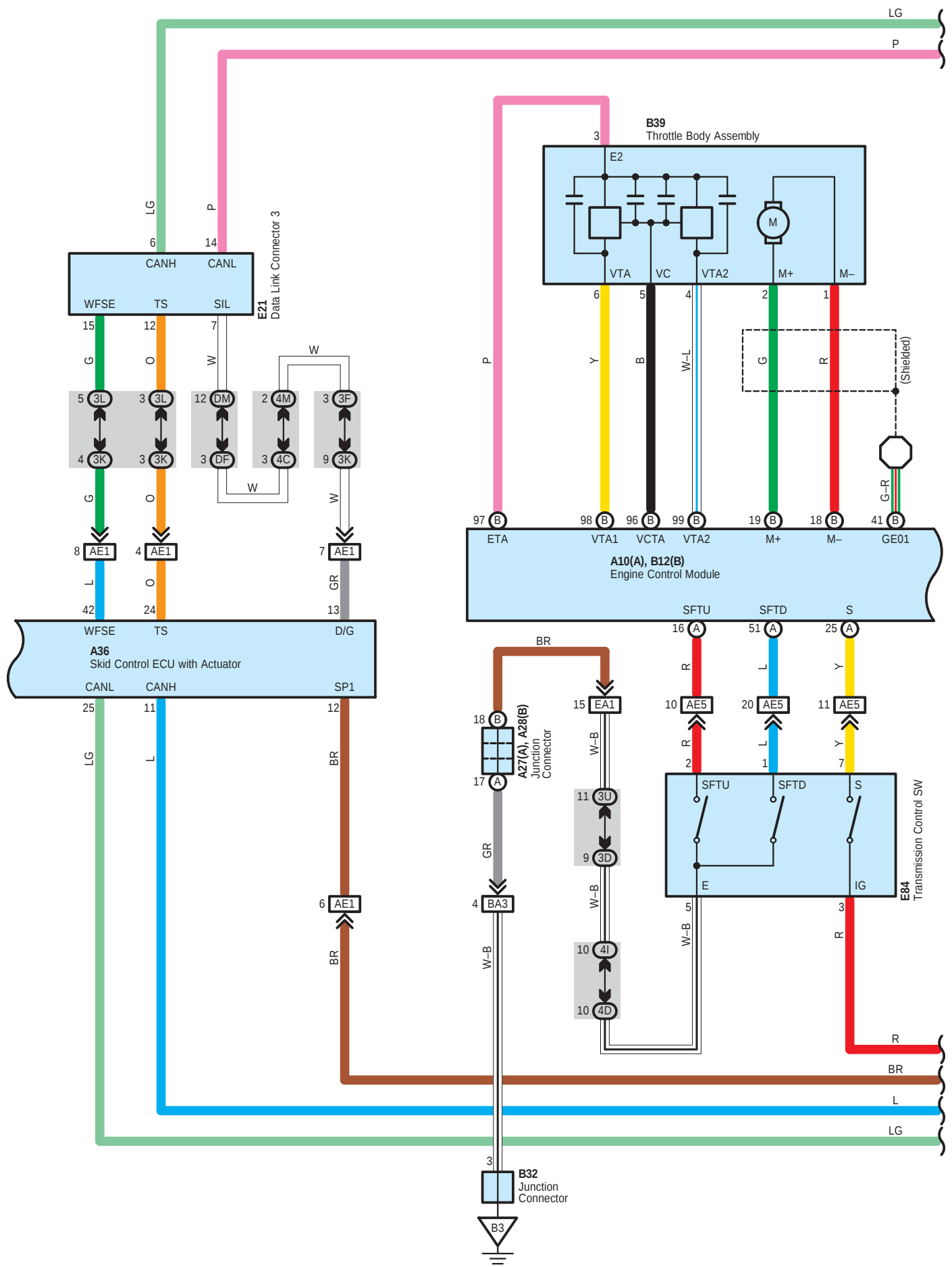
: Ground Points

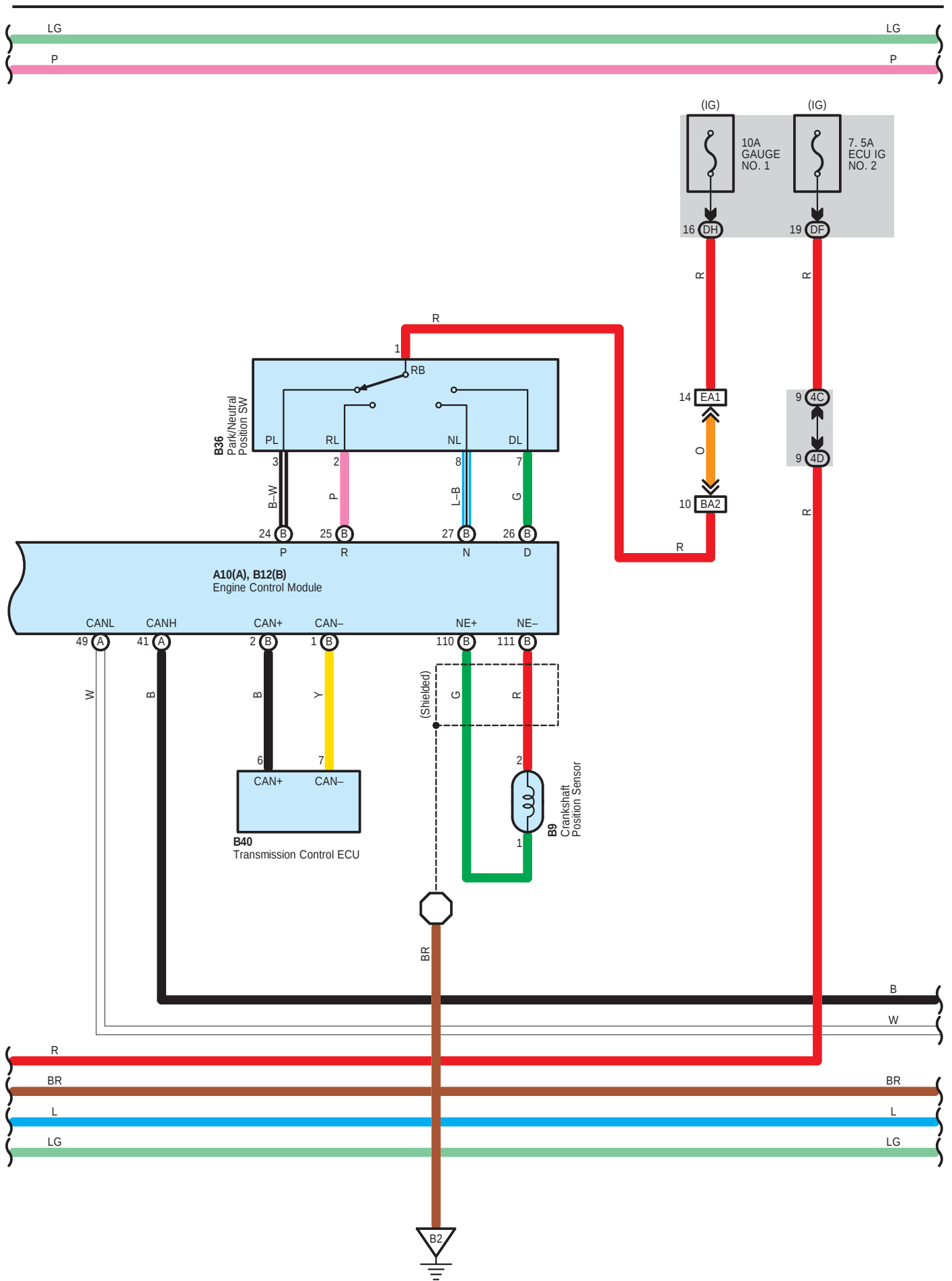
Code	See Page	Ground Points Location
A5	69	Cowl Side Left
B1	68	Left Side of the Cylinder Head
B3	68	Right Side of the Cylinder Block
E1	69	Left Side of the Instrument Panel Reinforcement
E2	69	Instrument Panel Brace LH



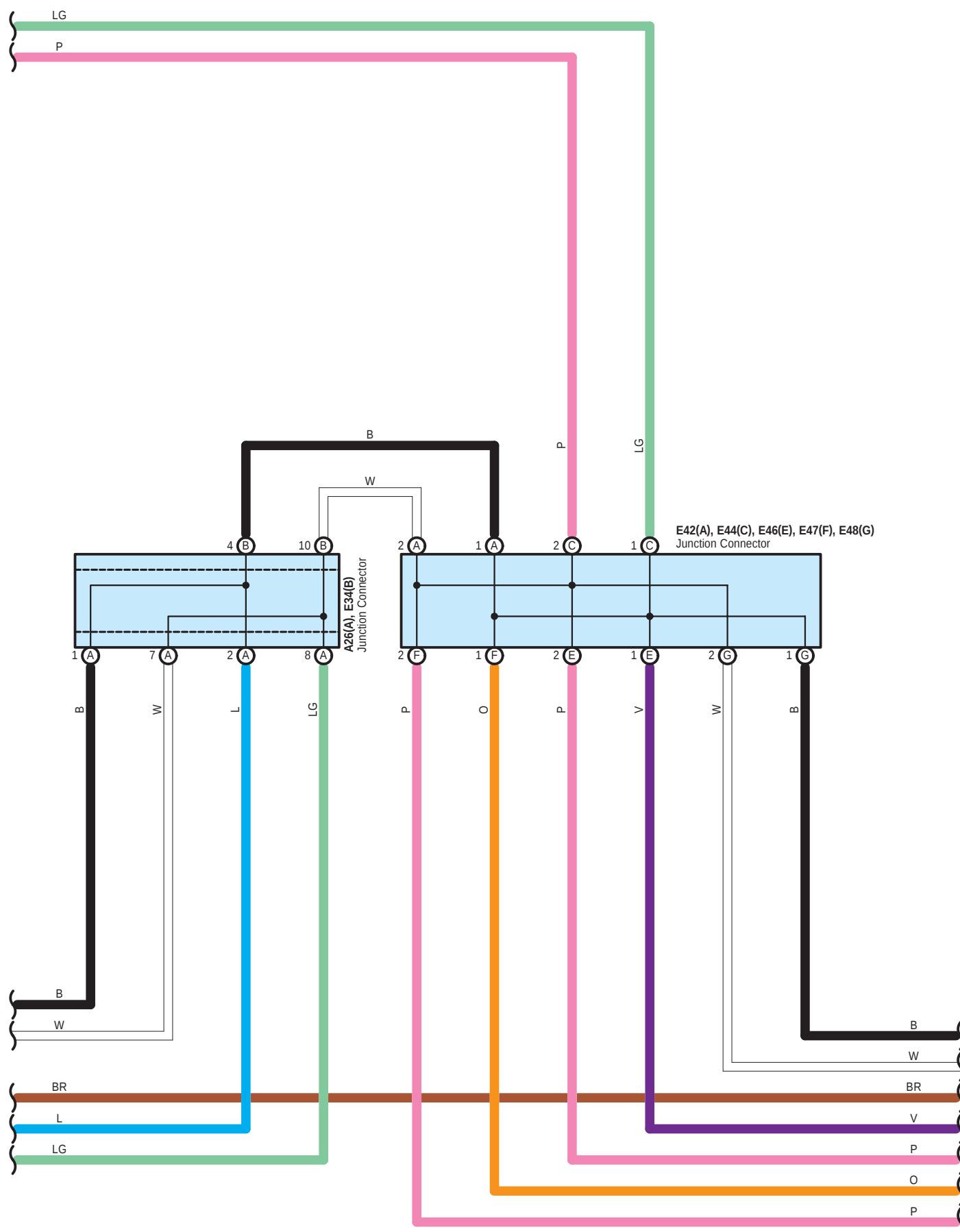
- * 1 : w/ Dynamic Radar Cruise Control
 * 2 : w/o Dynamic Radar Cruise Control

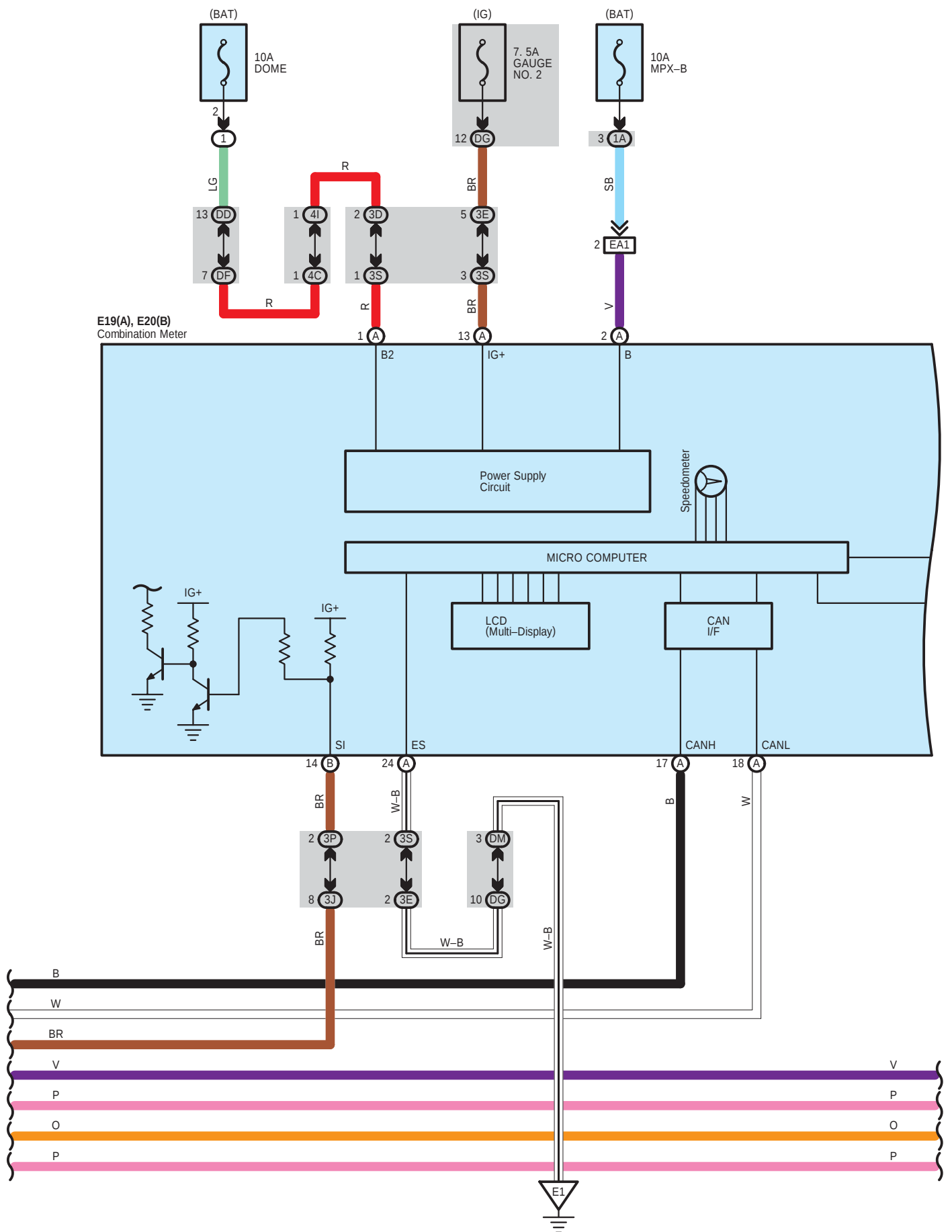


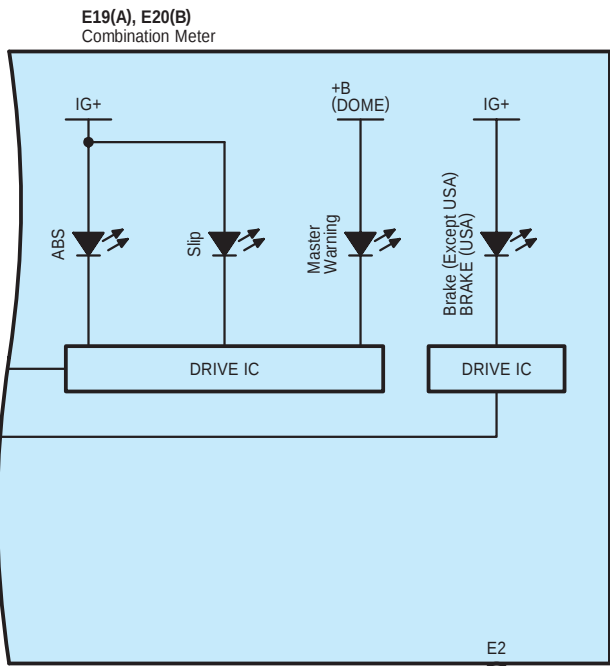




ABS, TRAC and VSC







System Outline

1. ABS Operation

If the brake pedal is depressed suddenly, the ABS controls the hydraulic pressure of the wheel cylinders for all the four wheels to automatically avoid wheel locking and ensure the directional and steering stability of the vehicle. If the brake pedal is depressed suddenly, the skid control ECU controls the solenoids in the actuators using the signals from the sensors to move the brake fluid to the reservoir in order to release the braking pressure applied to the wheel cylinder. If the skid control ECU detects that the fluid pressure in the wheel cylinder is insufficient, the ECU controls the solenoids in the actuators to increase the braking pressure.

2. Traction Control Operation

The traction control system controls the engine torque, the hydraulic pressure of the driving wheel cylinders, slipping of the wheels which may occur at start or acceleration of the vehicle, to ensure an optimal driving power and vehicle stability corresponding to the road conditions.

3. VSC Operation

Unexpected road conditions, vehicle speed, emergency situation, and any other external factors may cause large under- or over-steering of the vehicle. If this occurs, the VSC system automatically controls the engine power and wheel brakes to reduce the under- or over-steering.

To reduce large over-steering :

If the VSC system determines that the over-steering is large, it activates the brakes for the outer turning wheels depending on the degree of the over-steering to produce the moment toward the outside of the vehicle and reduce the over-steering.

To reduce large under-steering :

If the VSC system determines that the under-steering is large, it controls the engine power and activates the rear wheel brakes to reduce the under-steering.

4. Fail Safe Function

If an error occurs in the skid control ECU, sensor signals, and/or actuators, the skid control ECU inhibits the brake actuator control and inputs the error signal to the engine control module. According to the error signal, the brake actuator turns off the solenoid and the engine control module rejects any electronically controlled throttle open request from the VSC system. As a result, the vehicle functions regardless of the ABS, TRAC, and VSC systems.

○ : Parts Location

Code		See Page	Code		See Page	Code		See Page
A10	A	54	B32		57	E42	A	48, 59
A25	A	60	B36		57	E44	C	48, 59
A26	A	60	B39		57	E46	E	48, 59
A27	A	60	B40		57	E47	F	48, 59
A28	B	60	E19	A	58	E48	G	48, 59
A36		55	E20	B	58	E84		59
A38		55	E21		58	E88		59
A39		55	E31		58	E93		59
A40		60	E33	B	58	W1		65
B9		56	E34	B	58	X1		65
B12	B	56	E37		58			

○ : Relay Blocks

Code	See Page	Relay Blocks (Relay Block Location)
1	22	Engine Room R/B (Engine Compartment Left)

ABS, TRAC and VSC



: Junction Block and Wire Harness Connector

Code	See Page	Junction Block and Wire Harness (Connector Location)
1A	24	Engine Room Main Wire and Engine Room J/B (Engine Compartment Left)
3D	36	Instrument Panel Wire and J/B No.3 (Instrument Panel Left)
3E		
3F		
3J		
3K		
3L		
3O		
3P		
3S		
3U		
4C	42	Instrument Panel Wire and J/B No.4 (Instrument Panel Right)
4D		
4I		
4M		
DC	30	Engine Room Main Wire and Instrument Panel J/B (Lower Finish Panel)
DD	30	Instrument Panel Wire and Instrument Panel J/B (Lower Finish Panel)
DF	30	
DG	31	
DH	31	
DM	30	



: Connector Joining Wire Harness and Wire Harness

Code	See Page	Joining Wire Harness and Wire Harness (Connector Location)
AE1	69	Engine Room Main Wire and Instrument Panel Wire (Instrument Panel Right)
AE5		
BA2	68	Engine Wire and Engine Room Main Wire (Inside of the Engine Room R/B and Engine Room J/B)
BA3		
EA1	69	Instrument Panel Wire and Engine Room Main Wire (Left Kick Panel)
EE1	69	Instrument Panel Wire and Instrument Panel Wire (Near the Shift Lever)
LA1	69	Floor Wire and Engine Room Main Wire (Cowl Side Left)
MA1	69	Floor No.2 Wire and Engine Room Main Wire (Cowl Side Right)
WM1	70	Skid Control Sensor Wire Rear RH and Floor No.2 Wire (Quarter Wheel House RH)
XL1	70	Skid Control Sensor Wire Rear LH and Floor Wire (Quarter Wheel House LH)



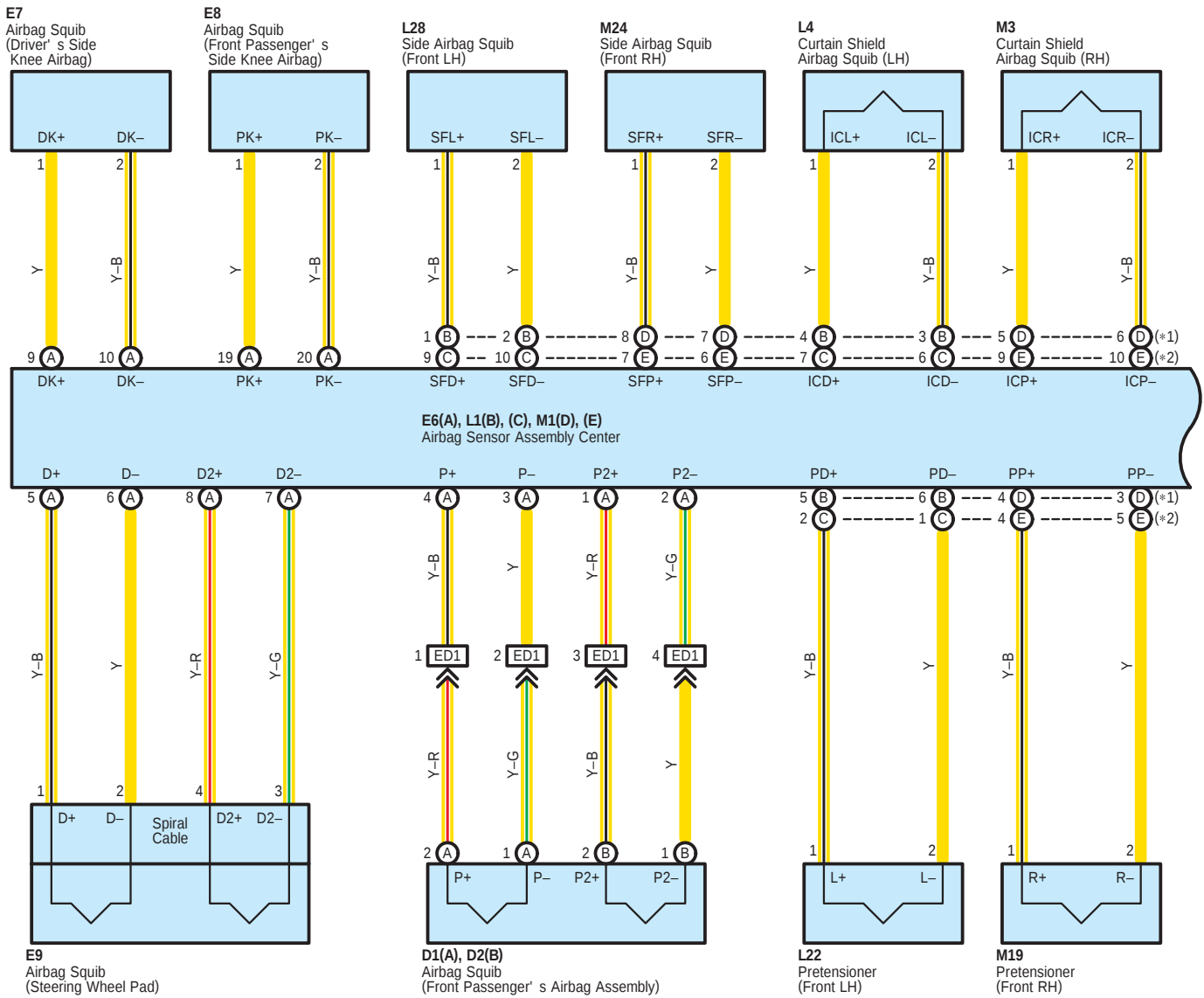
: Ground Points

Code	See Page	Ground Points Location
A3	68	Front Right Fender Apron
A6	69	Cowl Side Right
B2	68	Left Side of the Cylinder Block
B3	68	Right Side of the Cylinder Block
E1	69	Left Side of the Instrument Panel Reinforcement
E2	69	Instrument Panel Brace LH

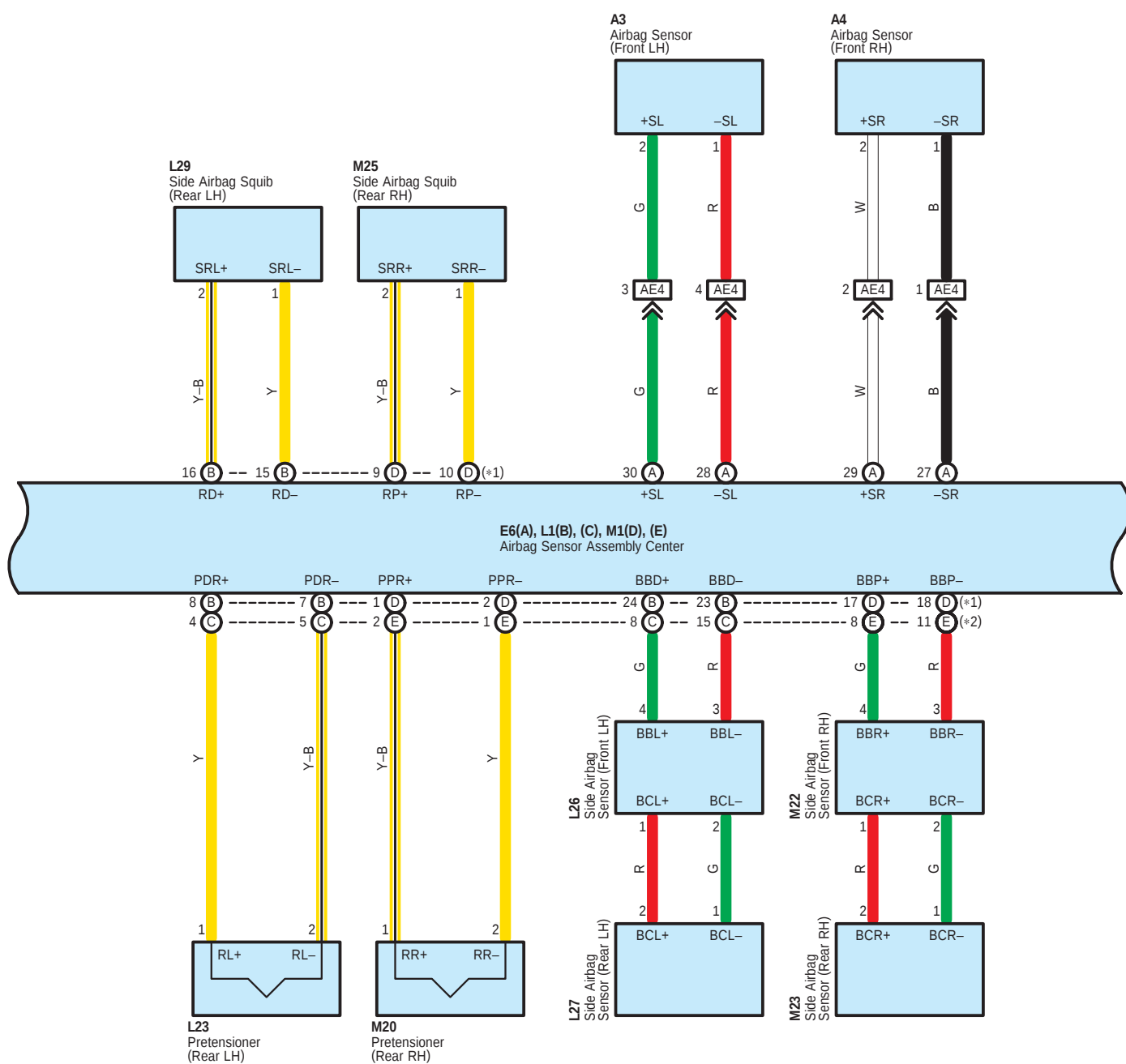
NOTICE: When inspecting or repairing the SRS, perform service in accordance with the following precautionary instructions and the procedure, and precautions in the Repair Manual applicable for the model year.

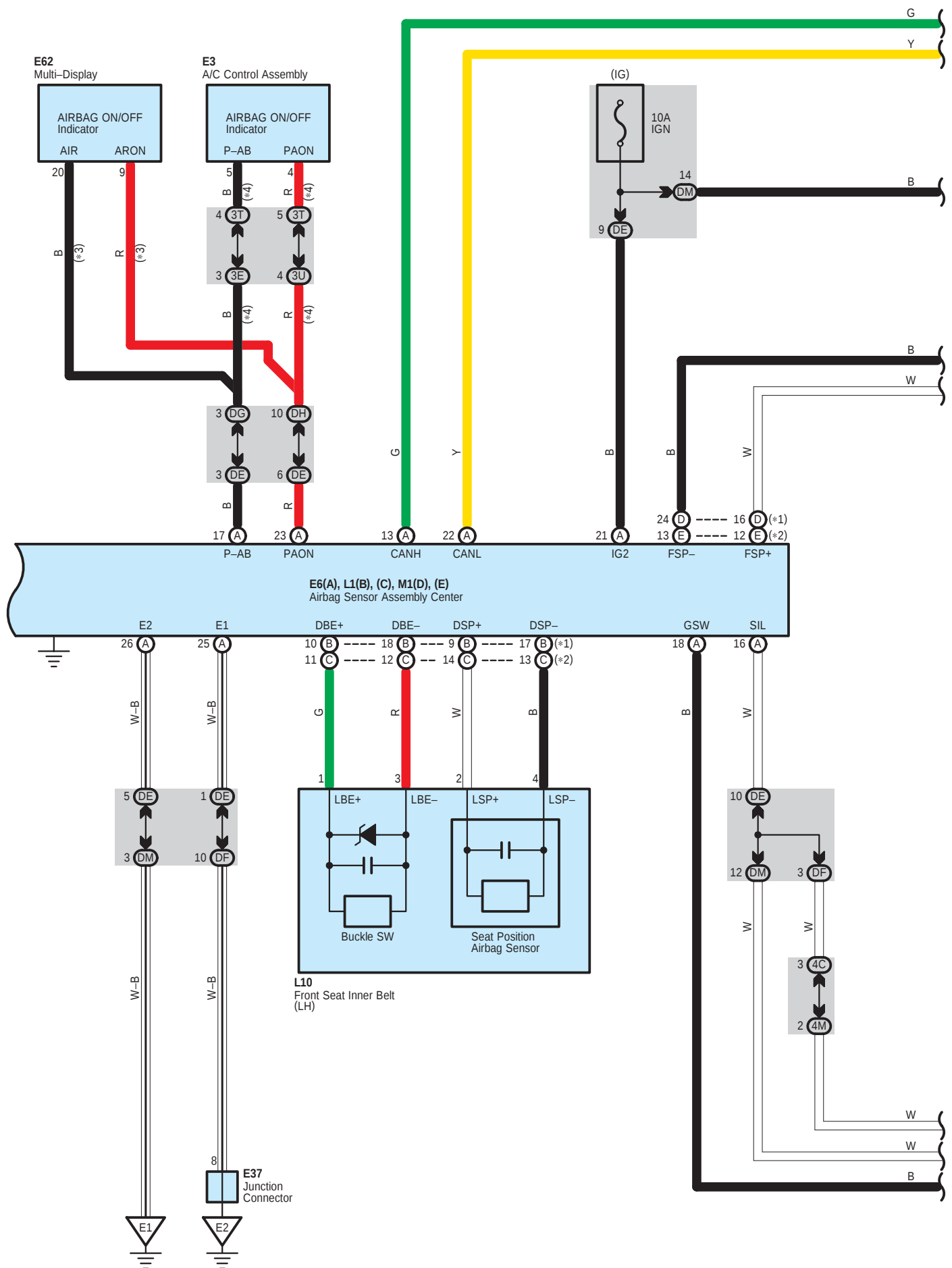
- Malfunction symptoms of the SRS are difficult to confirm, so the DTCs become the most important source of information when troubleshooting. When troubleshooting the SRS, always inspect the DTCs before disconnecting the battery.
- **Work must be started more than 90 seconds after the power SW is pushed to the "OFF" 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 deploy.)
- When the negative (-) terminal cable is disconnected from the battery, the memory of the clock and audio system will be cleared. So before starting work, make a record of the contents in the audio memory system. When work is finished, reset the audio systems as they were before and adjust the clock. Some vehicles have power tilt steering, power telescopic steering, power seat and power outside rear view mirror which are all equipped with memory function. However, it is not possible to make a record of these memory contents. So when the work is finished, it will be necessary to explain it to your customer, and ask the customer to adjust the features and reset the memory. To avoid erasing the memory in each system, never use a back-up power supply from outside the vehicle.
- Before repair, remove the airbag sensor if shocks are likely to be applied to the sensor during repair.
- Do not expose the following parts directly to hot air or flame;
- Even in cases of a minor collision where the SRS does not deploy, the following parts should be inspected;
- Never use SRS parts from another vehicle. When replacing parts, replace with new parts.
- For the purpose of reuse, never disassemble and repair the following parts.
- If the following parts have been dropped, or have cracks, dents and other defects in their case, bracket, and connector, replace with new one.
- Use a volt/ohmmeter with high impedance (10 k Ω /V minimum) for troubleshooting electrical circuits of the system.
- Information labels are attached to the periphery of the SRS components. Follow the instructions of the notice.
- After work on the SRS is completed, check the SRS warning light.
- If the vehicle is equipped with a mobile communication system, refer to the precaution in the IN section of the Repair Manual.

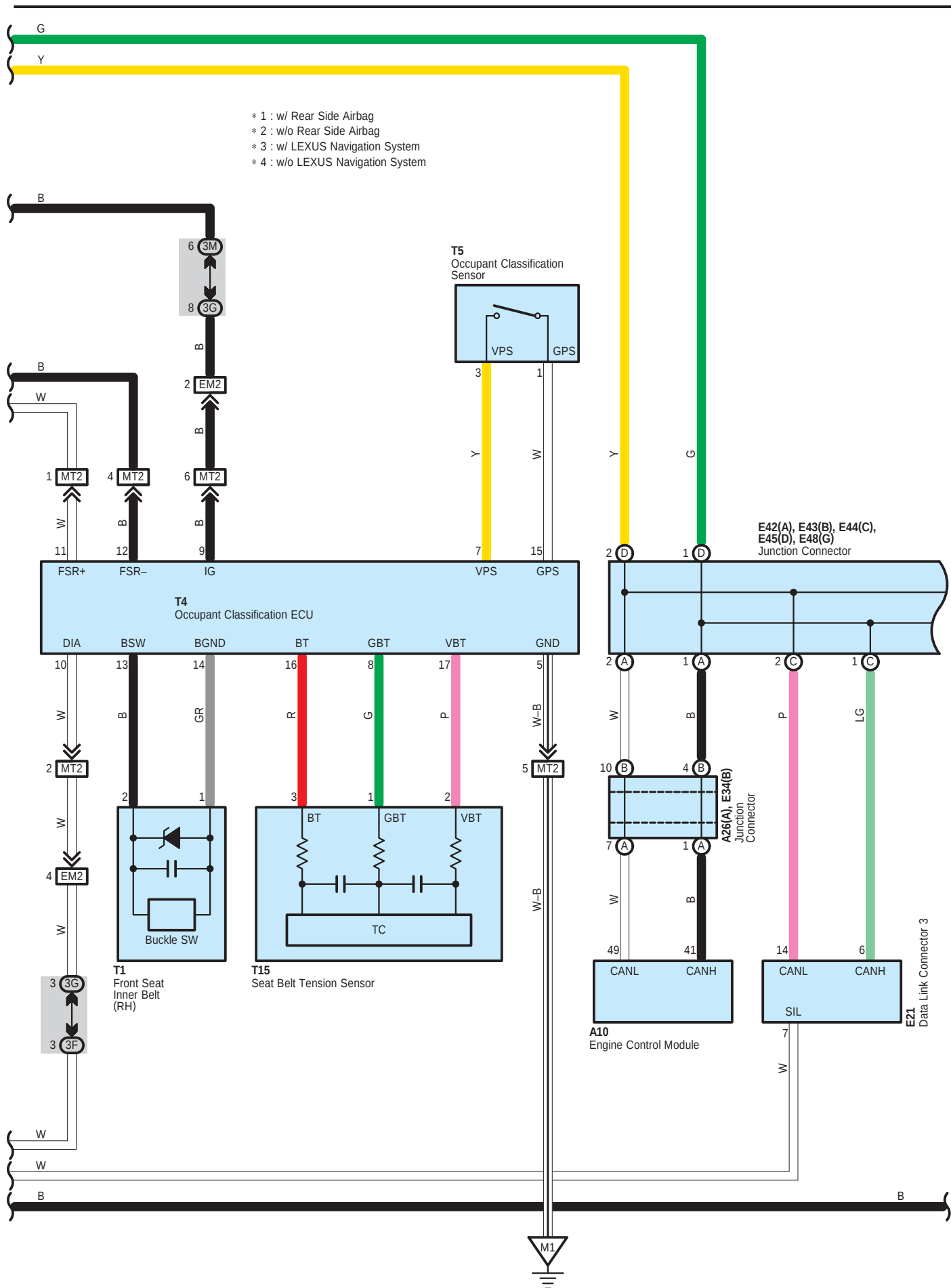
- * Steering wheel pad
- * Front passenger airbag assembly
- * Side airbag assembly
- * Curtain shield airbag assembly
- * Knee airbag assembly
- * Seat belt pretensioner
- * Center airbag sensor assembly
- * Front airbag sensor assembly
- * Side airbag sensor assembly
- * Rear airbag sensor assembly

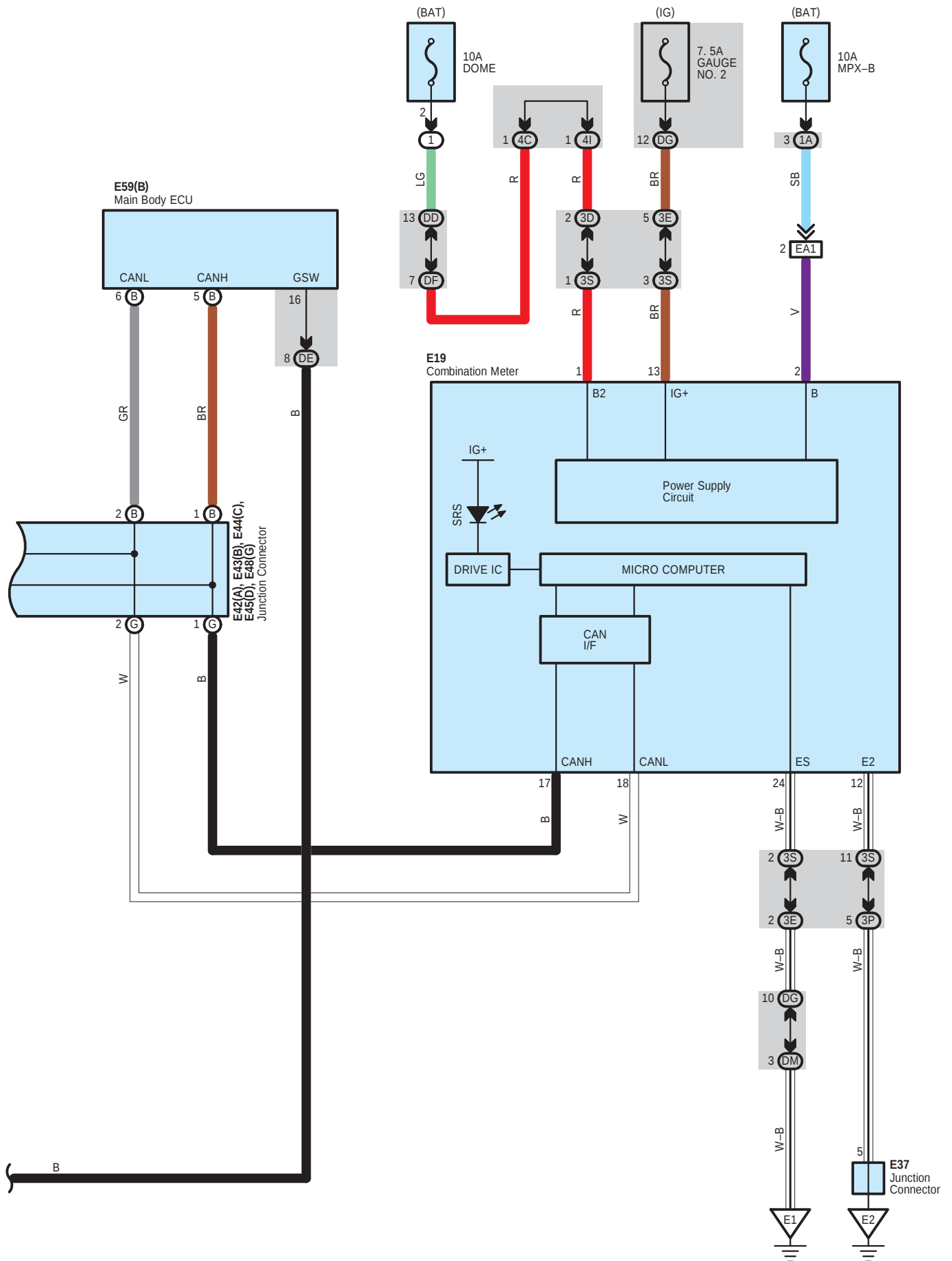


- * 1 : w/ Rear Side Airbag
- * 2 : w/o Rear Side Airbag









System Outline

- * The system reaches an ignition judgment to deploy the following device based on the signals received from the front airbag sensor and deceleration sensor.
 - Driver Airbag
 - Front Passenger Airbag
 - Knee Airbag
 - Seat Belt Pretensioner
- * The system reaches an ignition judgment to deploy the following device based on the signals received from the side airbag sensors.
 - Side Airbags
 - Curtain Shield Airbags
- * The dual-stage SRS airbag system has been used for the driver and front passenger airbags. This system controls the optimal airbag inflation by judging the extent of impact, seat position (driver seat) and whether or not the seat belt is fastened (driver seat) and information from the Front Passenger Occupant Classification System.
- * The front passenger occupant classification system judges whether the front passenger seat is occupied by an adult or child (with child seat) or is unoccupied, according to the load applied to the front passenger seat, the load applied to the belt tension sensor (passenger), and whether the seat belt is buckled (passenger). Based on the results, it restricts the deployment of the front passenger airbag, front passenger side airbag, and front passenger seat belt pretensioner. In addition, the system informs the driver of the result of the judgment through the use of the AIRBAG ON/OFF indicator lights.
- * The airbag manual ON–OFF switch is used to disable the deployment of the front and side airbags for the front passenger, such as when a child seat is installed on the front passenger seat.
- * The Airbag sensor assembly transmits a signal to the main body ECU in order to release the door lock.

○ : Parts Location

Code	See Page	Code	See Page	Code	See Page
A3	54	E42	A 48, 59	L28	66
A4	54	E43	B 48, 59	L29	62
A10	54	E44	C 48, 59	M1	D 61
A26	A 60	E45	D 48, 59		E 61
D1	A 60	E48	G 48, 59	M3	62
D2	B 60	E59	B 59	M19	62
E3	58	E62	59	M20	62
E6	A 58	L1	B 61	M22	62
E7	58		C 61	M23	62
E8	58	L4	62	M24	66
E9	58	L10	66	M25	62
E19	58	L22	62	T1	66
E21	58	L23	62	T4	66
E34	B 58	L26	62	T5	66
E37	58	L27	62	T15	66

○ : Relay Blocks

Code	See Page	Relay Blocks (Relay Block Location)
1	22	Engine Room R/B (Engine Compartment Left)



: Junction Block and Wire Harness Connector

Code	See Page	Junction Block and Wire Harness (Connector Location)
1A	24	Engine Room Main Wire and Engine Room J/B (Engine Compartment Left)
3D	36	Instrument Panel Wire and J/B No.3 (Instrument Panel Left)
3E		
3F		
3G		
3M		
3P		
3S		
3T		
3U		
4C	42	Instrument Panel Wire and J/B No.4 (Instrument Panel Right)
4I		
4M		
DD	30	Engine Room Main Wire and Instrument Panel J/B (Lower Finish Panel)
DE	30	Instrument Panel Wire and Instrument Panel J/B (Lower Finish Panel)
DF		
DG	31	
DH		
DM	30	



: Connector Joining Wire Harness and Wire Harness

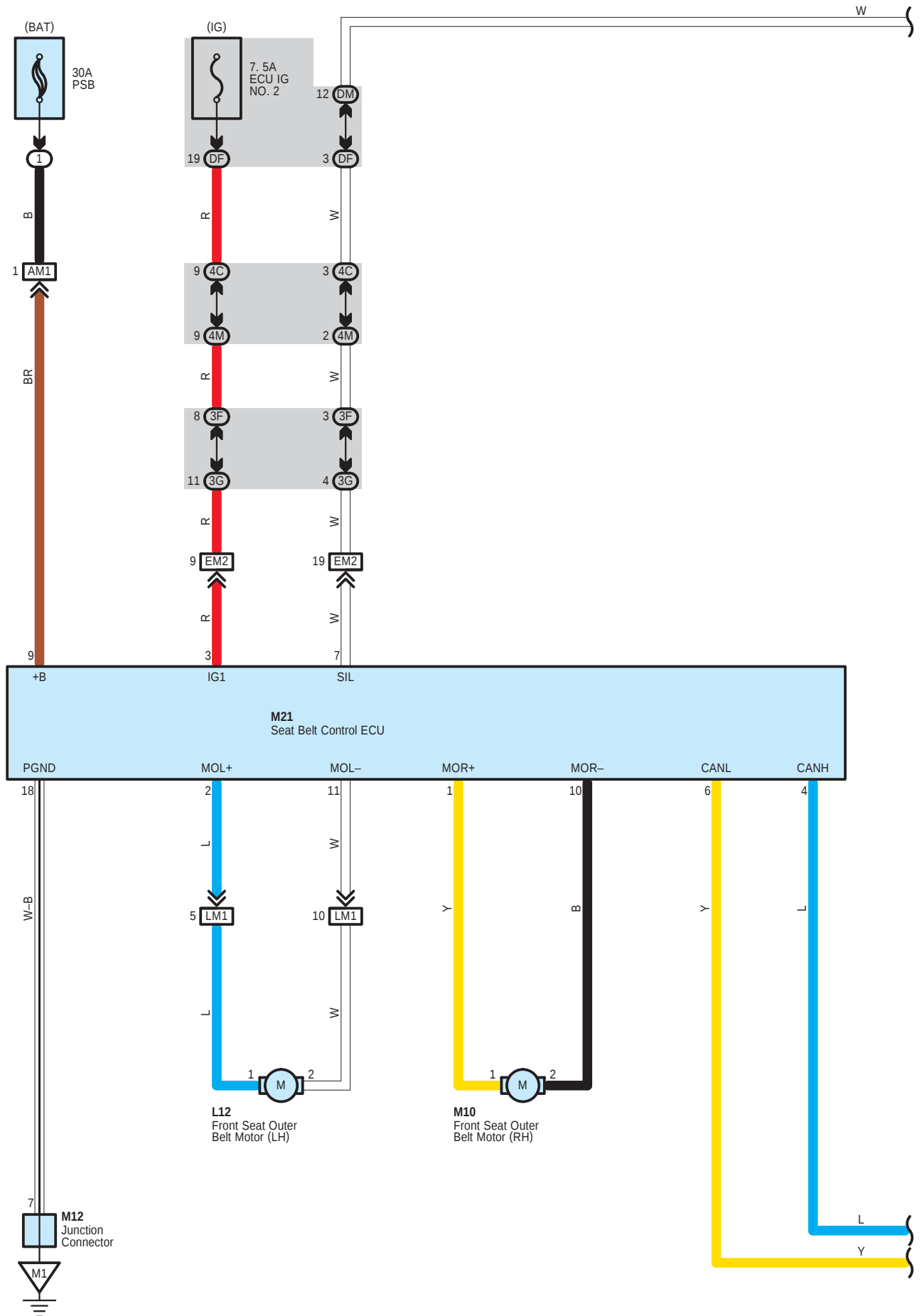
Code	See Page	Joining Wire Harness and Wire Harness (Connector Location)
AE4	69	Engine Room Main Wire and Instrument Panel Wire (Instrument Panel Right)
EA1	69	Instrument Panel Wire and Engine Room Main Wire (Left Kick Panel)
ED1	69	Instrument Panel Wire and Instrument Panel Wire Assembly (Instrument Panel Right)
EM2	69	Instrument Panel Wire and Floor No.2 Wire (Right Kick Panel)
MT2	71	Floor No.2 Wire and Front Seat RH Wire (Under the Front RH Seat)

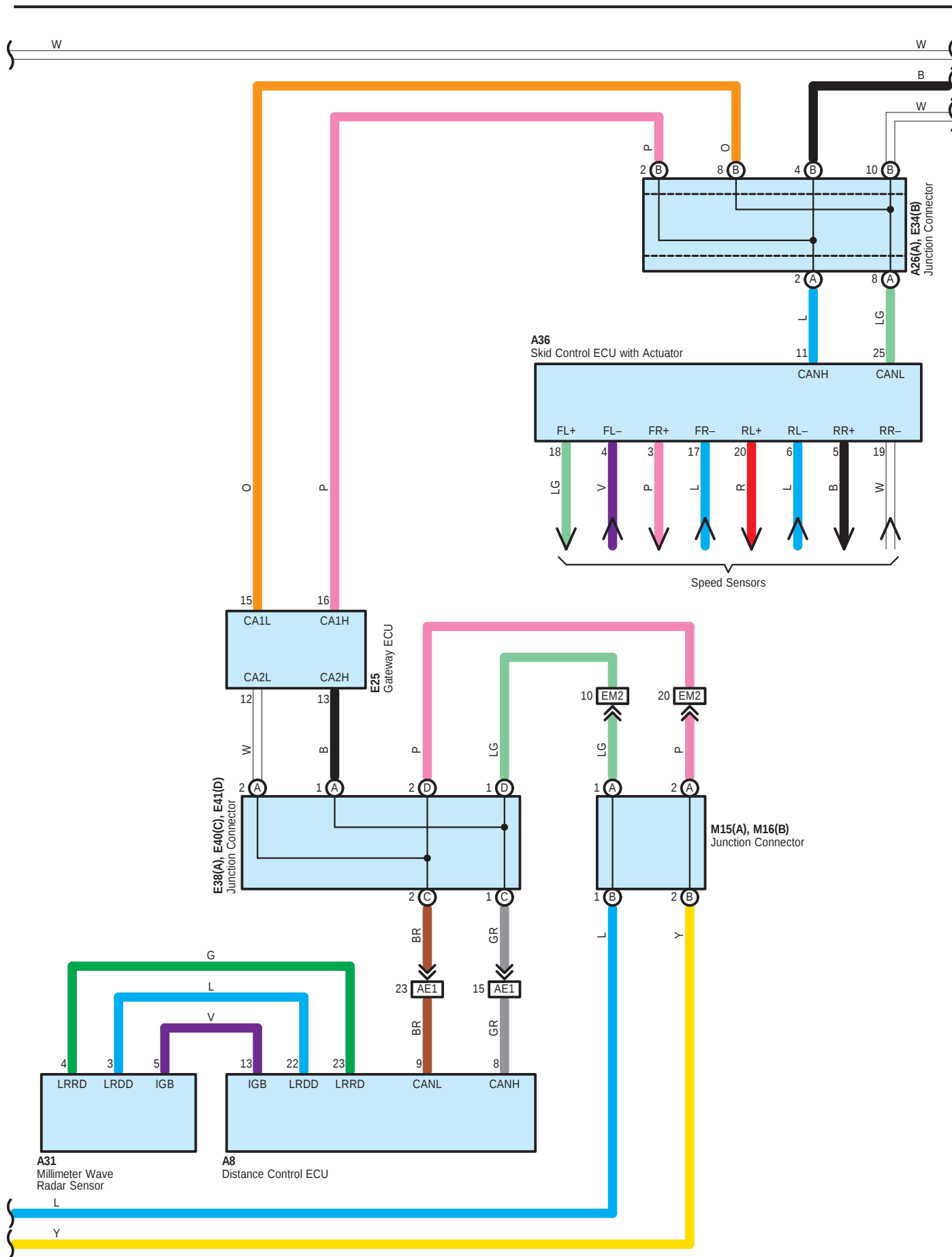


: Ground Points

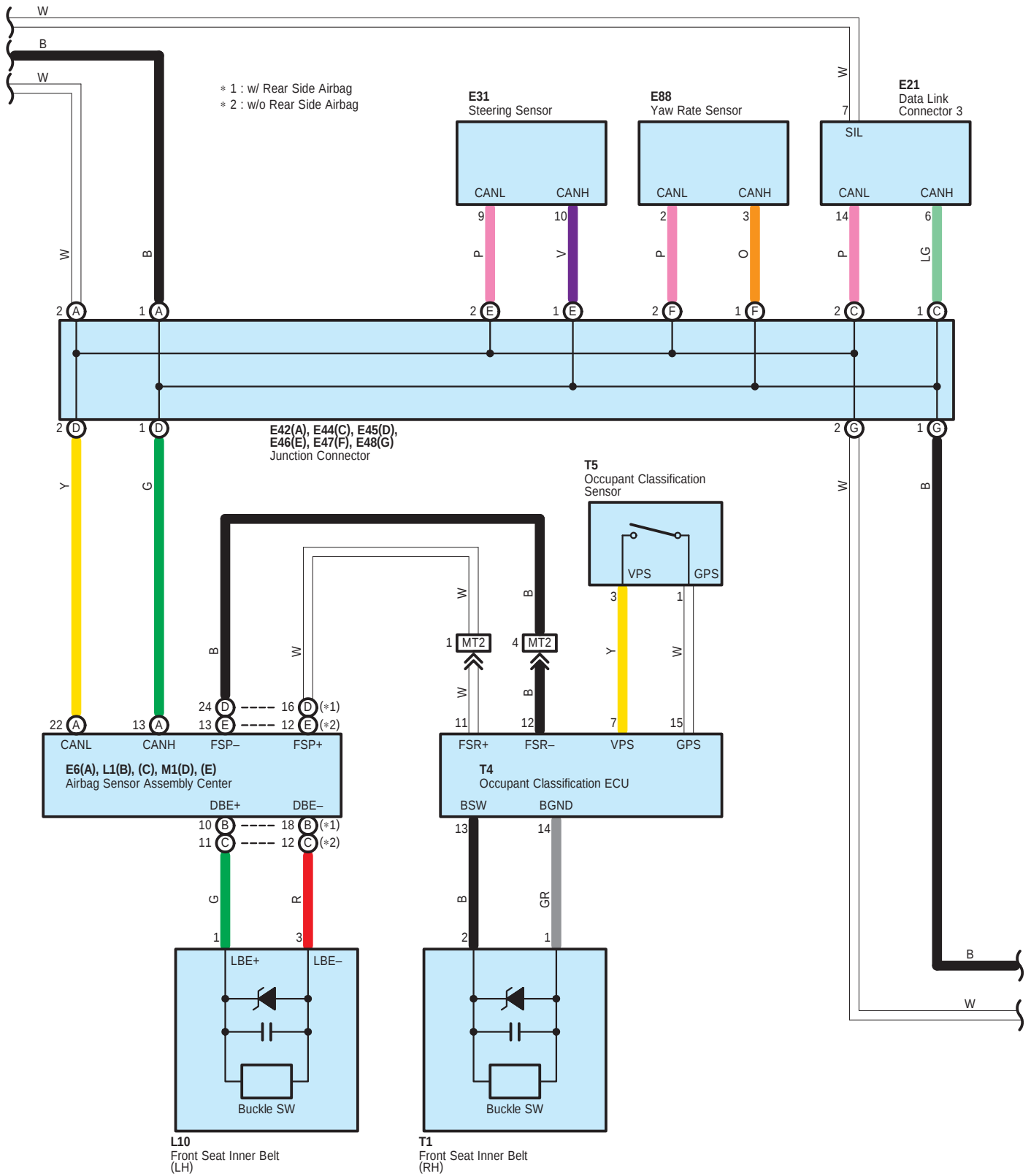
Code	See Page	Ground Points Location
E1	69	Left Side of the Instrument Panel Reinforcement
E2	69	Instrument Panel Brace LH
M1	70	Roof Side Rear Inner Panel RH

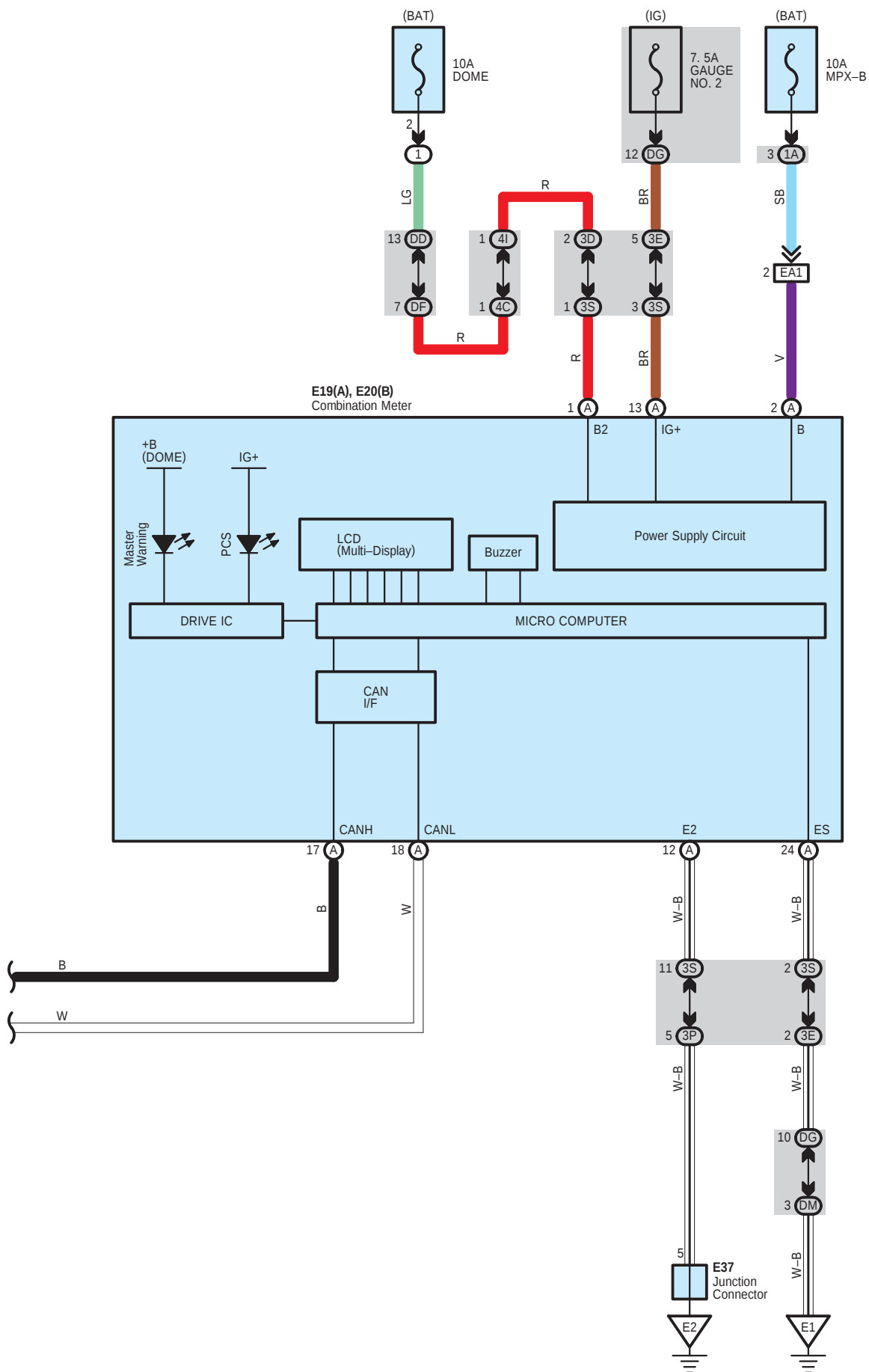
Pre-Collision System





Pre-Collision System





Pre-Collision System

System Outline

- * In the pre-collision seat belt (Hereinafter called PSB), the seat belt is retracted to optimize the restraint performance with the motor by receiving signal from the pre-collision sensor (Millimeter wave radar sensor + distance control ECU) and skid control ECU with actuator.
- * Skid control ECU with actuator sends trigger signal to seat belt control ECU through CAN communication when detecting certain vehicle conditions such as spin condition, under-steer condition and sudden braking. Seat belt control ECU operates PSB upon receiving the signal.
- * Pre-collision sensor detects an on-coming vehicle or object on the road ahead with the millimeter wave radar and determines in advance whether a collision is unavoidable from information of the distance control ECU such as the position, speed and on-coming route of the object. The distance control ECU sends signal to seat belt control ECU through CAN communication to activate PSB motor to retract the seat belt before a crash. This function works even when the vehicle speed is 0 km/h if conditions are right.
- * When the pre-collision system (Hereinafter called PCS) has failure, 'CHECK PCS SYSTEM' is shown on the multi information display in the meter. The warning lamp exclusively for PCS is lit up then. When the system is not available due to dirt on the radar, 'PCS NOT AVAILABLE NOW' is displayed and the warning lamp blinks.

○ : Parts Location

Code	See Page	Code	See Page	Code	See Page
A8	60	E38	A 46, 58	L10	66
A26	A 60	E40	C 46, 58	L12	62
A31	54	E41	D 46, 59	M1	D 61
A36	55	E42	A 48, 59		E 61
E6	A 58	E44	C 48, 59	M10	62
E19	A 58	E45	D 48, 59	M12	62
E20	B 58	E46	E 48, 59	M15	A 52, 62
E21	58	E47	F 48, 59	M16	B 52, 62
E25	58	E48	G 48, 59	M21	62
E31	58	E88	59	T1	66
E34	B 58	L1	B 61	T4	66
E37	58		C 61	T5	66

○ : Relay Blocks

Code	See Page	Relay Blocks (Relay Block Location)
1	22	Engine Room R/B (Engine Compartment Left)

○ : Junction Block and Wire Harness Connector

Code	See Page	Junction Block and Wire Harness (Connector Location)
1A	24	Engine Room Main Wire and Engine Room J/B (Engine Compartment Left)
3D	36	Instrument Panel Wire and J/B No.3 (Instrument Panel Left)
3E		
3F		
3G		
3P		
3S		
4C	42	Instrument Panel Wire and J/B No.4 (Instrument Panel Right)
4I		
4M		
DD	30	Engine Room Main Wire and Instrument Panel J/B (Lower Finish Panel)
DF	30	Instrument Panel Wire and Instrument Panel J/B (Lower Finish Panel)
DG	31	
DM	30	

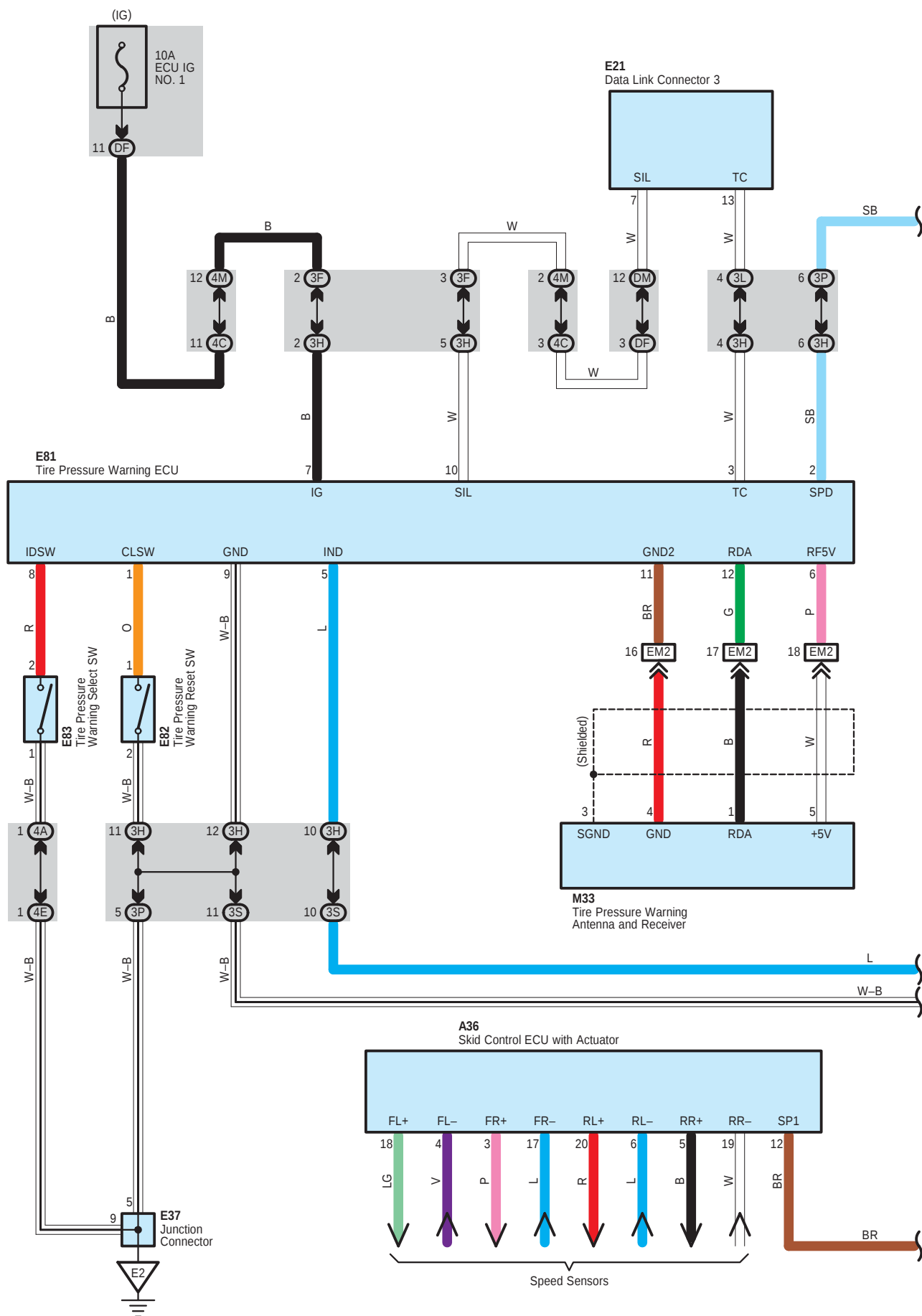
 : Connector Joining Wire Harness and Wire Harness

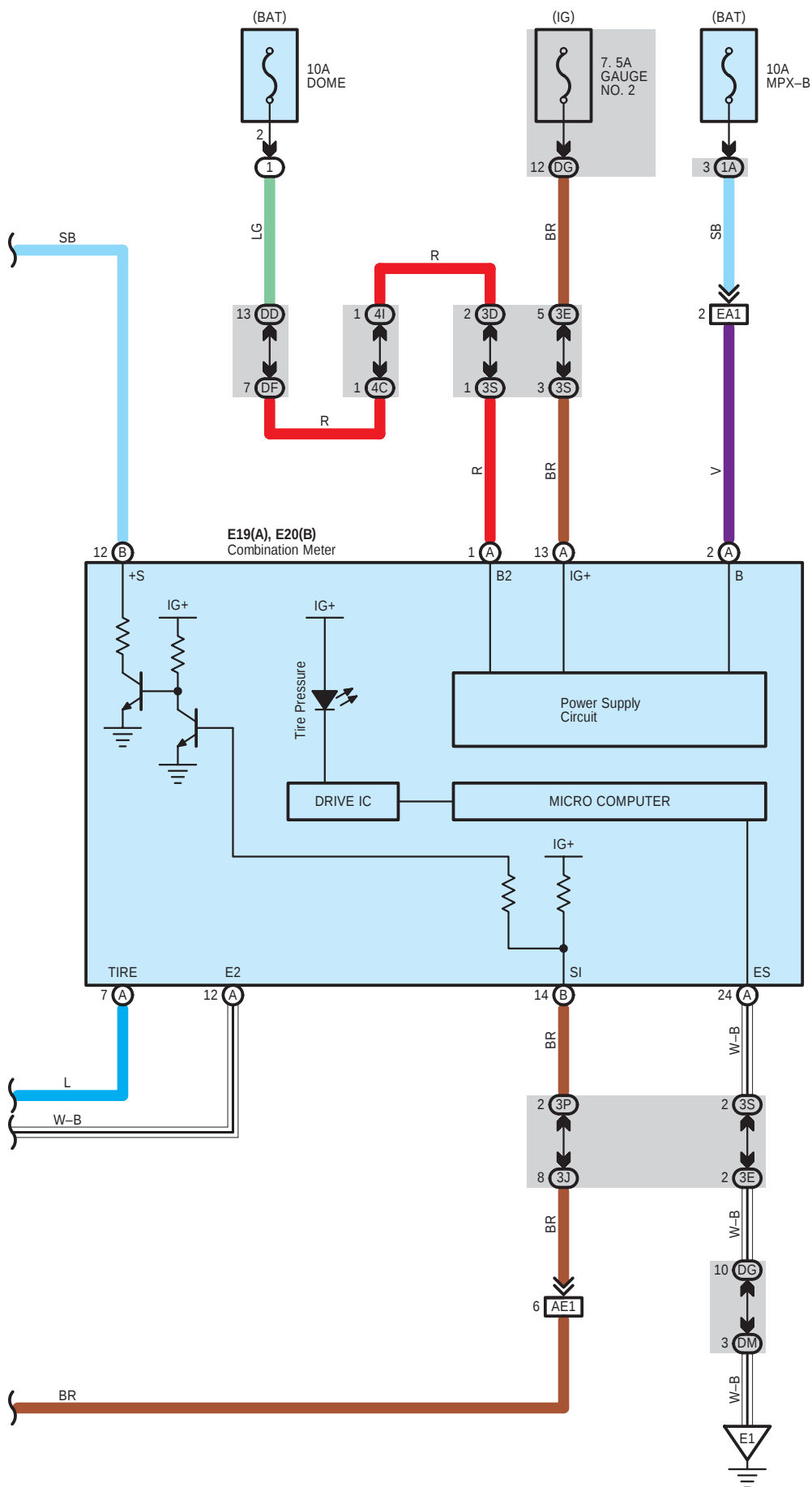
Code	See Page	Joining Wire Harness and Wire Harness (Connector Location)
AE1	69	Engine Room Main Wire and Instrument Panel Wire (Instrument Panel Right)
AM1	69	Engine Room Main Wire and Floor No.2 Wire (Right Kick Panel)
EA1	69	Instrument Panel Wire and Engine Room Main Wire (Left Kick Panel)
EM2	69	Instrument Panel Wire and Floor No.2 Wire (Right Kick Panel)
LM1	70	Floor Wire and Floor No.2 Wire (Under the Rear Seat)
MT2	71	Floor No.2 Wire and Front Seat RH Wire (Under the Front RH Seat)

 : Ground Points

Code	See Page	Ground Points Location
E1	69	Left Side of the Instrument Panel Reinforcement
E2	69	Instrument Panel Brace LH
M1	70	Roof Side Rear Inner Panel RH

Tire Pressure Warning System





Tire Pressure Warning System

System Outline

- * In the tire pressure warning system, the warning light illuminates to alert the driver about the low tire pressure when the vehicle continues driving with one of the four tires under such low pressure to cause possible driving disturbance.
- * The air pressure sensors installed in the wheels measure air pressure in the tires directly.

○ : Parts Location

Code		See Page	Code		See Page	Code		See Page
A36		55	E21		58	E82		59
E19	A	58	E37		58	E83		59
E20	B	58	E81		59	M33		62

○ : Relay Blocks

Code	See Page	Relay Blocks (Relay Block Location)
1	22	Engine Room R/B (Engine Compartment Left)

○ : Junction Block and Wire Harness Connector

Code	See Page	Junction Block and Wire Harness (Connector Location)
1A	24	Engine Room Main Wire and Engine Room J/B (Engine Compartment Left)
3D	36	Instrument Panel Wire and J/B No.3 (Instrument Panel Left)
3E		
3F		
3H		
3J		
3L		
3P		
3S		
4A	42	Instrument Panel Wire and J/B No.4 (Instrument Panel Right)
4C		
4E		
4I		
4M		
DD	30	Engine Room Main Wire and Instrument Panel J/B (Lower Finish Panel)
DF	30	Instrument Panel Wire and Instrument Panel J/B (Lower Finish Panel)
DG	31	
DM	30	

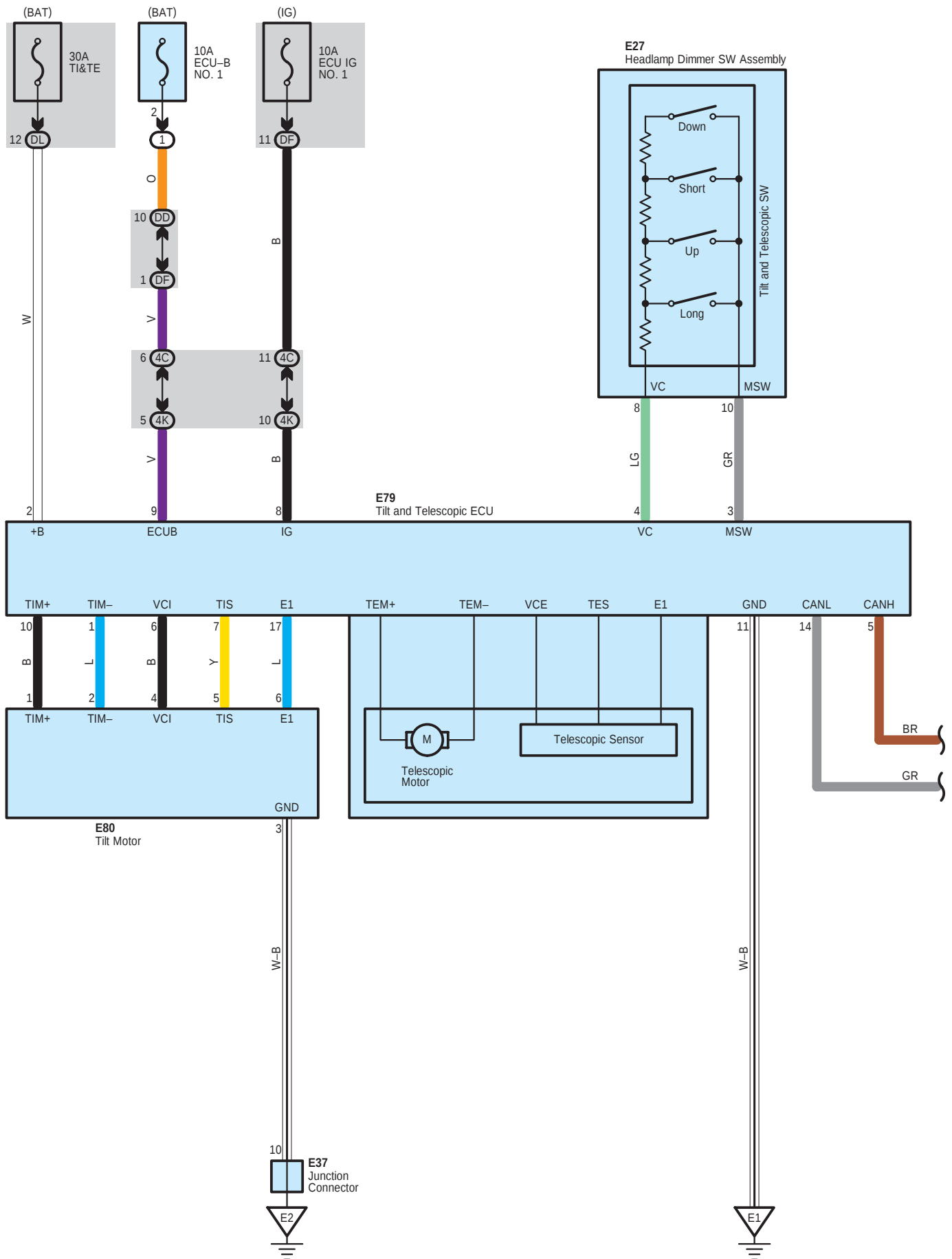
□ : Connector Joining Wire Harness and Wire Harness

Code	See Page	Joining Wire Harness and Wire Harness (Connector Location)
AE1	69	Engine Room Main Wire and Instrument Panel Wire (Instrument Panel Right)
EA1	69	Instrument Panel Wire and Engine Room Main Wire (Left Kick Panel)
EM2	69	Instrument Panel Wire and Floor No.2 Wire (Right Kick Panel)

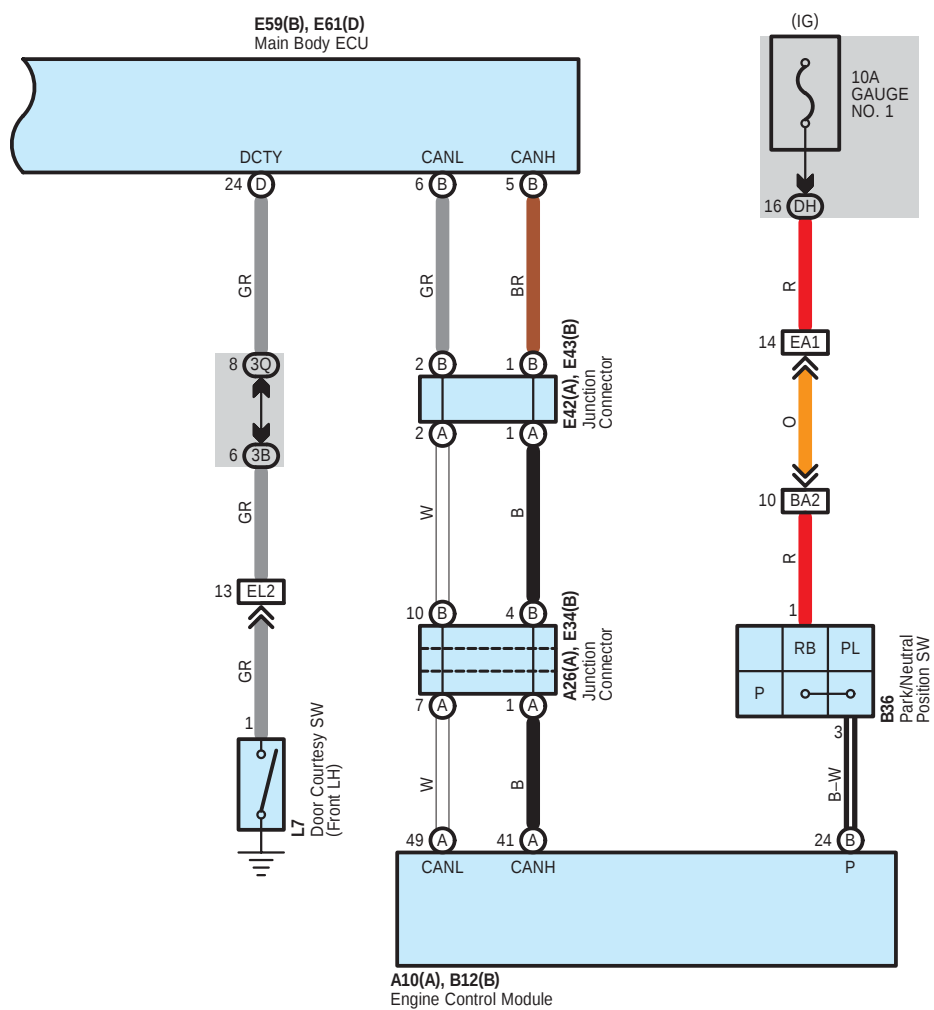
▽ : Ground Points

Code	See Page	Ground Points Location
E1	69	Left Side of the Instrument Panel Reinforcement
E2	69	Instrument Panel Brace LH

Power Tilt and Power Telescopic



Power Tilt and Power Telescopic



 : Parts Location

Code		See Page	Code		See Page	Code		See Page
A10	A	54	E42	A	48, 59	E65		59
A26	A	60	E43	B	48, 59	E79		59
B12	B	56	E49	A	50, 59	E80		59
B36		57	E50	B	50, 59	I6		63
E13		58	E51	C	50, 59	L7		62
E27		58	E52	D	50, 59	M5		62
E34	B	58	E59	B	59	M8		62
E37		58	E61	D	59	M12		62

 : Relay Blocks

Code	See Page	Relay Blocks (Relay Block Location)
1	22	Engine Room R/B (Engine Compartment Left)

 : Junction Block and Wire Harness Connector

Code	See Page	Junction Block and Wire Harness (Connector Location)
3B	36	Instrument Panel Wire and J/B No.3 (Instrument Panel Left)
3Q		
4C	42	Instrument Panel Wire and J/B No.4 (Instrument Panel Right)
4K		
DD	30	Engine Room Main Wire and Instrument Panel J/B (Lower Finish Panel)
DF	30	Instrument Panel Wire and Instrument Panel J/B (Lower Finish Panel)
DH	31	
DL	30	

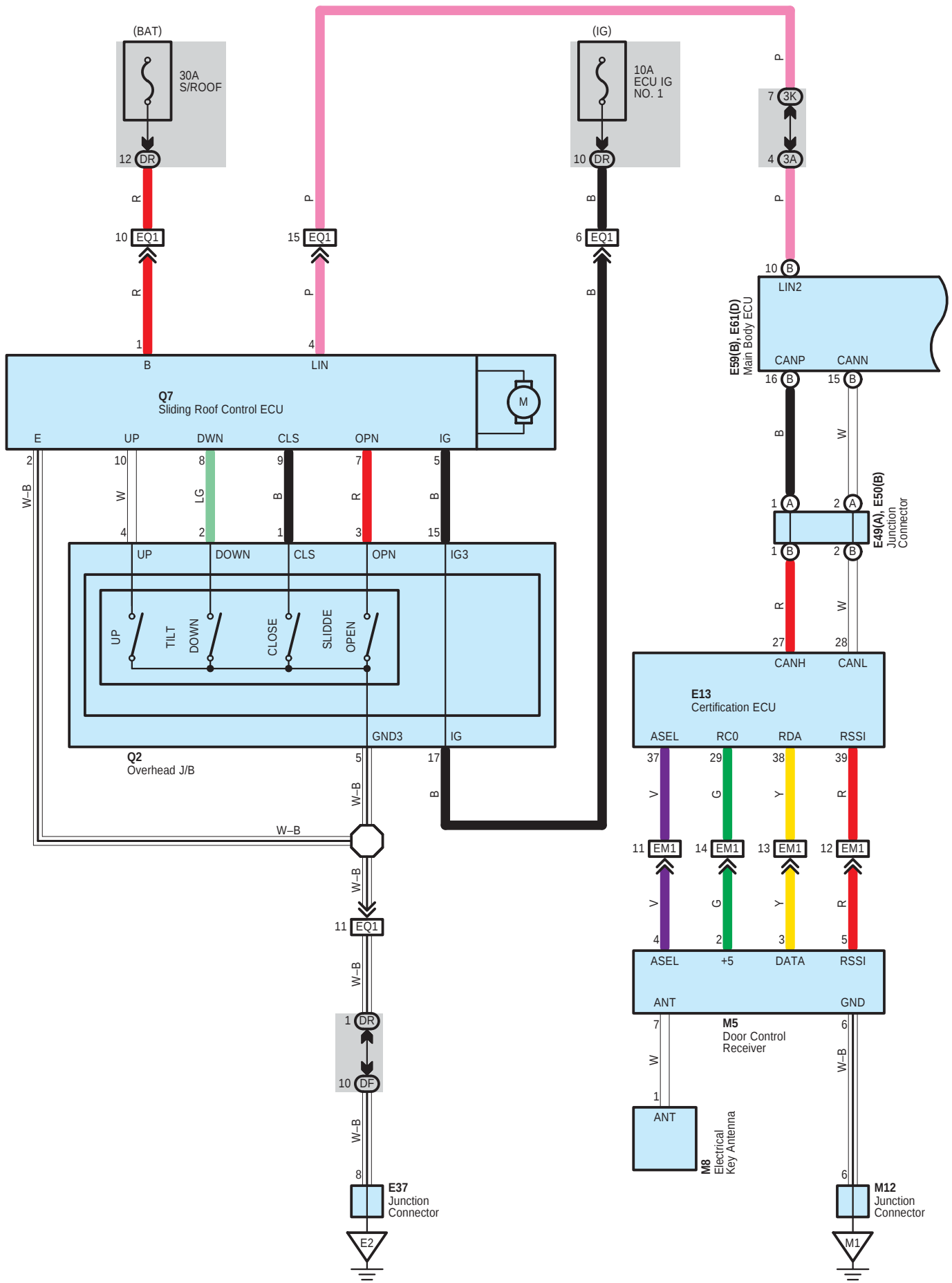
 : Connector Joining Wire Harness and Wire Harness

Code	See Page	Joining Wire Harness and Wire Harness (Connector Location)
BA2	68	Engine Wire and Engine Room Main Wire (Inside of the Engine Room R/B and Engine Room J/B)
EA1	69	Instrument Panel Wire and Engine Room Main Wire (Left Kick Panel)
EL2	69	Instrument Panel Wire and Floor Wire (Left Kick Panel)
EM1	69	Instrument Panel Wire and Floor No.2 Wire (Right Kick Panel)
IE1	69	Front Door LH Wire and Instrument Panel Wire (Left Kick Panel)
IE2		

 : Ground Points

Code	See Page	Ground Points Location
E1	69	Left Side of the Instrument Panel Reinforcement
E2	69	Instrument Panel Brace LH
M1	70	Roof Side Rear Inner Panel RH

Sliding Roof



Sliding Roof

: Parts Location

Code		See Page		Code		See Page		Code		See Page	
E13		58		E49	A	50, 59		M5		62	
E19		58		E50	B	50, 59		M8		62	
E37		58		E59	B	59		M12		62	
E43	B	48, 59		E61	D	59		Q2		64	
E48	G	48, 59		I2		63		Q7		64	

: Relay Blocks

Code	See Page	Relay Blocks (Relay Block Location)
1	22	Engine Room R/B (Engine Compartment Left)

: Junction Block and Wire Harness Connector

Code	See Page	Junction Block and Wire Harness (Connector Location)
1A	24	Engine Room Main Wire and Engine Room J/B (Engine Compartment Left)
3A	36	Instrument Panel Wire and J/B No.3 (Instrument Panel Left)
3D		
3E		
3K		
3O		
3P		
3Q		
3S		
4C	42	Instrument Panel Wire and J/B No.4 (Instrument Panel Right)
4I		
DD	30	Engine Room Main Wire and Instrument Panel J/B (Lower Finish Panel)
DF	30	Instrument Panel Wire and Instrument Panel J/B (Lower Finish Panel)
DG	31	
DK	30	
DM		
DR		

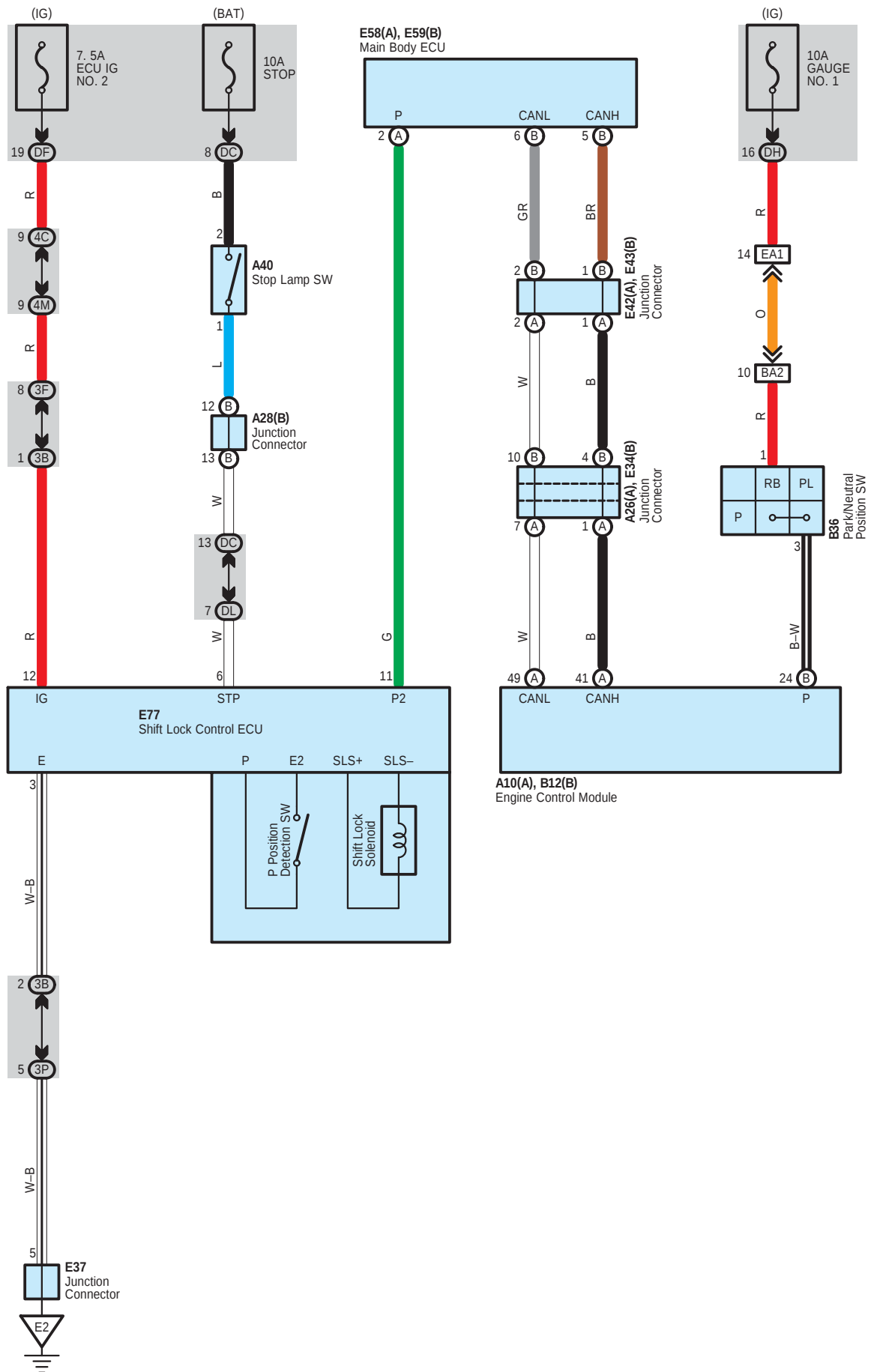
: Connector Joining Wire Harness and Wire Harness

Code	See Page	Joining Wire Harness and Wire Harness (Connector Location)
EA1	69	Instrument Panel Wire and Engine Room Main Wire (Left Kick Panel)
EM1	69	Instrument Panel Wire and Floor No.2 Wire (Right Kick Panel)
EQ1	69	Instrument Panel Wire and Roof Wire (Front Pillar LH)
IE1	69	Front Door LH Wire and Instrument Panel Wire (Left Kick Panel)
IE2		

: Ground Points

Code	See Page	Ground Points Location
E1	69	Left Side of the Instrument Panel Reinforcement
E2	69	Instrument Panel Brace LH
M1	70	Roof Side Rear Inner Panel RH

Shift Lock



System Outline

Shift Lock Mechanism

If the brake pedal is depressed with the power SW is pushed to IG ON position, the shift lock control ECU is activated, allowing the driver to change the shift lever to a position other than the P position.

○ : Parts Location

Code		See Page	Code		See Page	Code		See Page
A10	A	54	B36		57	E58	A	59
A26	A	60	E34	B	58	E59	B	59
A28	B	60	E37		58	E77		59
A40		60	E42	A	48, 59			
B12	B	56	E43	B	48, 59			

○ : Junction Block and Wire Harness Connector

Code	See Page	Junction Block and Wire Harness (Connector Location)
3B	36	Instrument Panel Wire and J/B No.3 (Instrument Panel Left)
3F		
3P		
4C	42	Instrument Panel Wire and J/B No.4 (Instrument Panel Right)
4M		
DC	30	Engine Room Main Wire and Instrument Panel J/B (Lower Finish Panel)
DF	30	Instrument Panel Wire and Instrument Panel J/B (Lower Finish Panel)
DH	31	
DL	30	

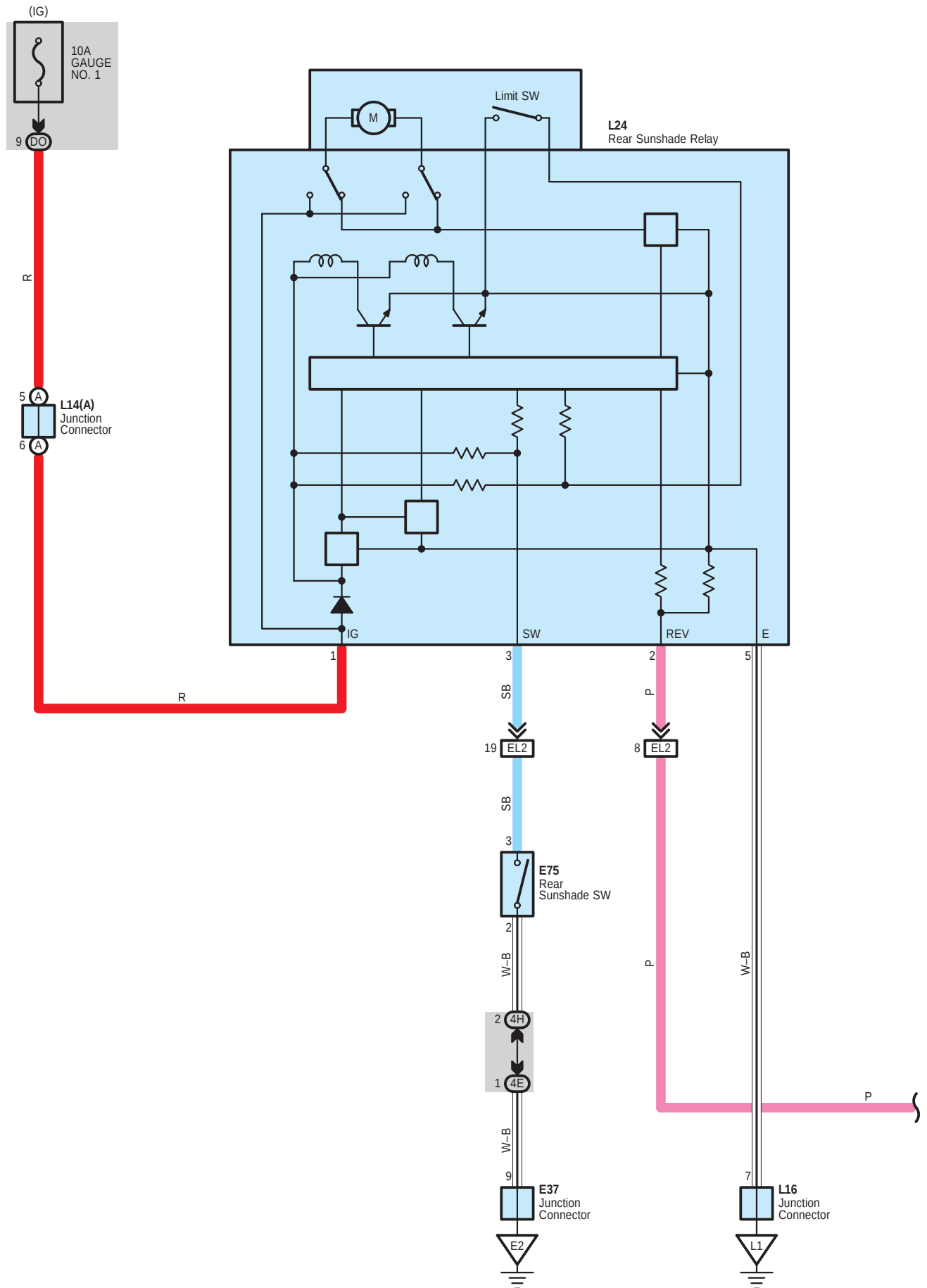
□ : Connector Joining Wire Harness and Wire Harness

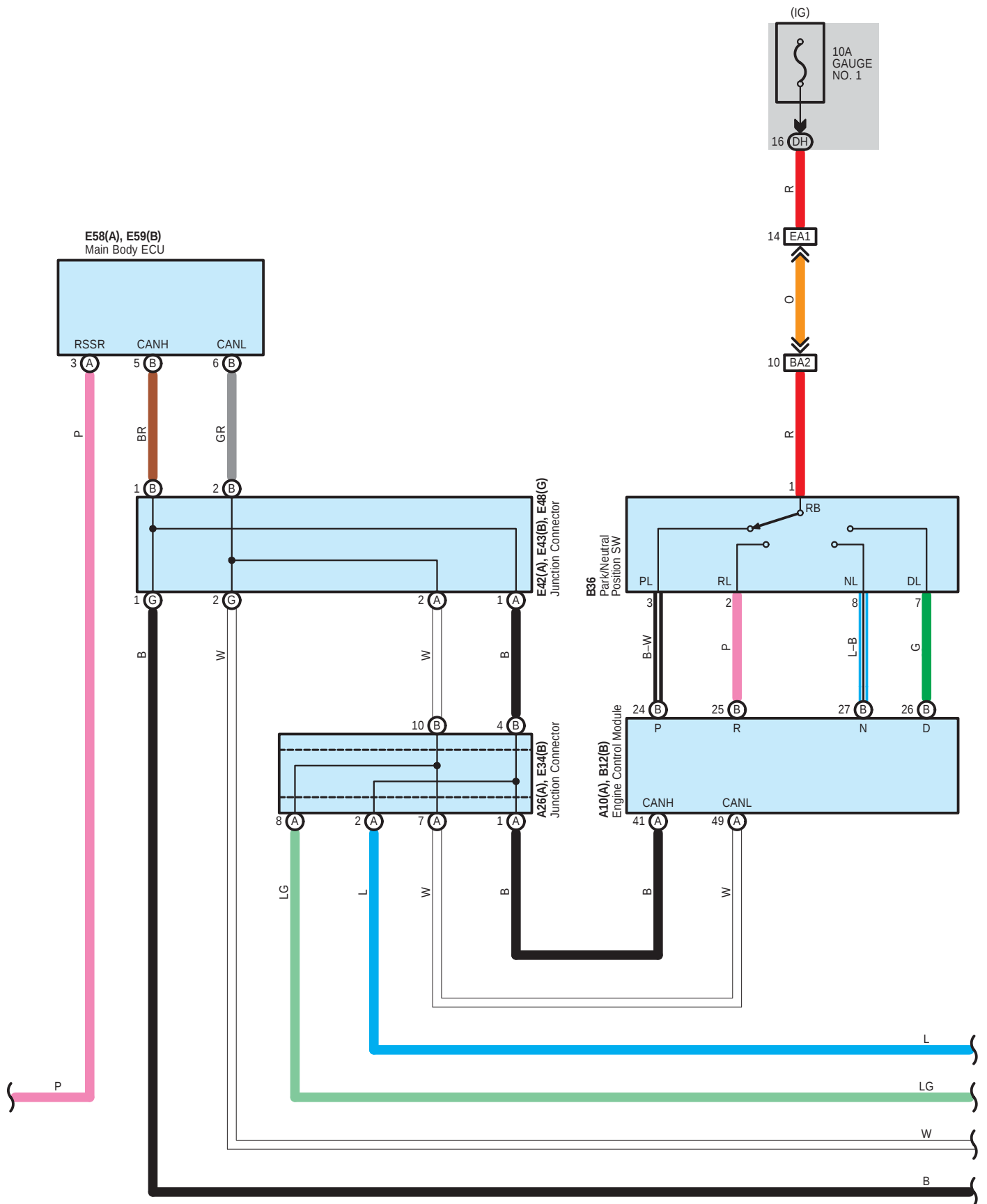
Code	See Page	Joining Wire Harness and Wire Harness (Connector Location)
BA2	68	Engine Wire and Engine Room Main Wire (Inside of the Engine Room R/B and Engine Room J/B)
EA1	69	Instrument Panel Wire and Engine Room Main Wire (Left Kick Panel)

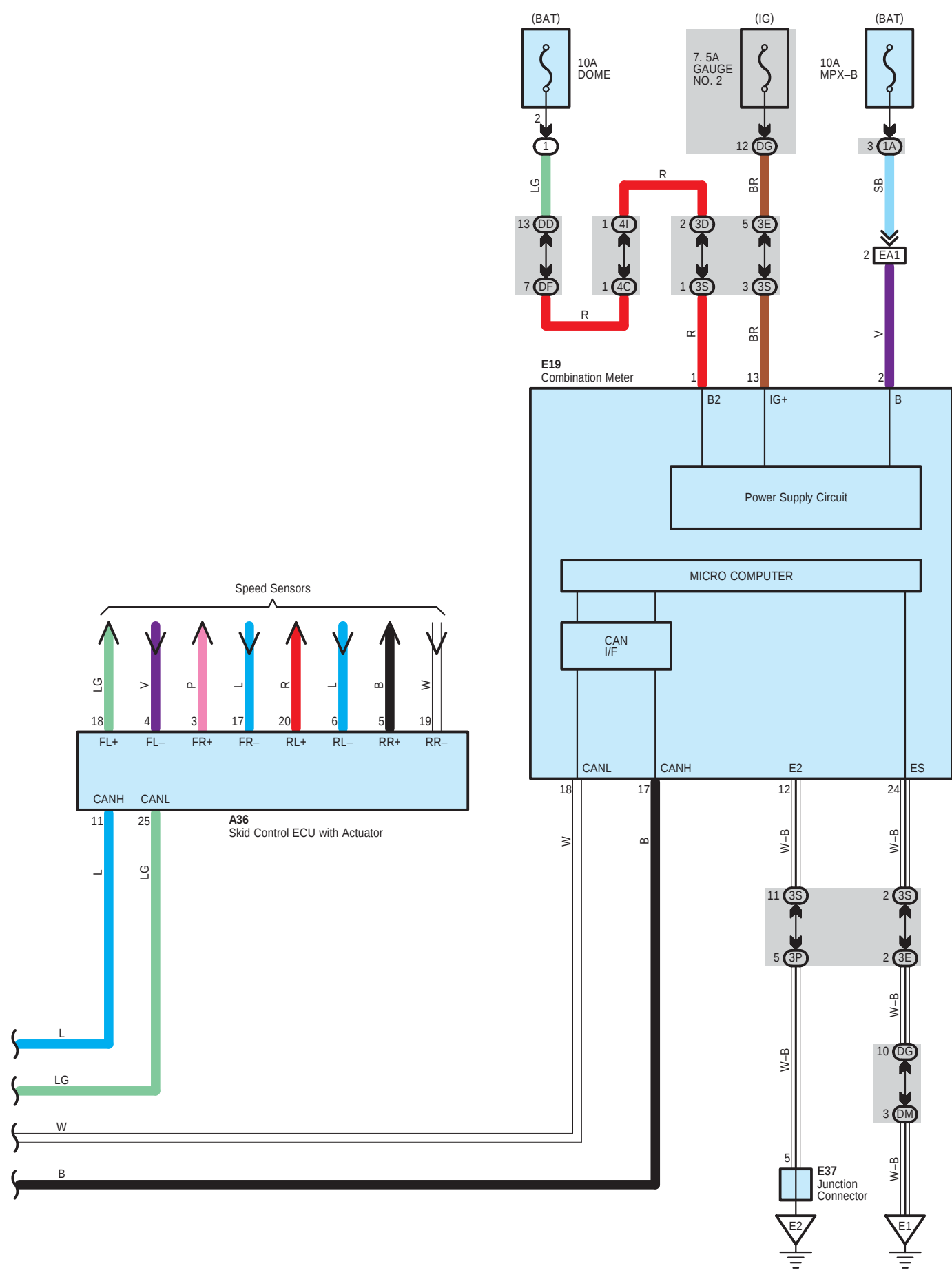
▽ : Ground Points

Code	See Page	Ground Points Location
E2	69	Instrument Panel Brace LH

Rear Sunshade







 : Parts Location

Code		See Page	Code		See Page	Code		See Page
A10	A	54	E34	B	58	E59	B	59
A26	A	60	E37		58	E75		59
A36		55	E42	A	48, 59	L14	A	62
B12	B	56	E43	B	48, 59	L16		62
B36		57	E48	G	48, 59	L24		62
E19		58	E58	A	59			

 : Relay Blocks

Code	See Page	Relay Blocks (Relay Block Location)
1	22	Engine Room R/B (Engine Compartment Left)

 : Junction Block and Wire Harness Connector

Code	See Page	Junction Block and Wire Harness (Connector Location)
1A	24	Engine Room Main Wire and Engine Room J/B (Engine Compartment Left)
3D	36	Instrument Panel Wire and J/B No.3 (Instrument Panel Left)
3E		
3P		
3S		
4C	42	Instrument Panel Wire and J/B No.4 (Instrument Panel Right)
4E		
4H		
4I		
DD	30	Engine Room Main Wire and Instrument Panel J/B (Lower Finish Panel)
DF	30	Instrument Panel Wire and Instrument Panel J/B (Lower Finish Panel)
DG	31	
DH		
DM	30	
DO	30	Floor Wire and Instrument Panel J/B (Lower Finish Panel)

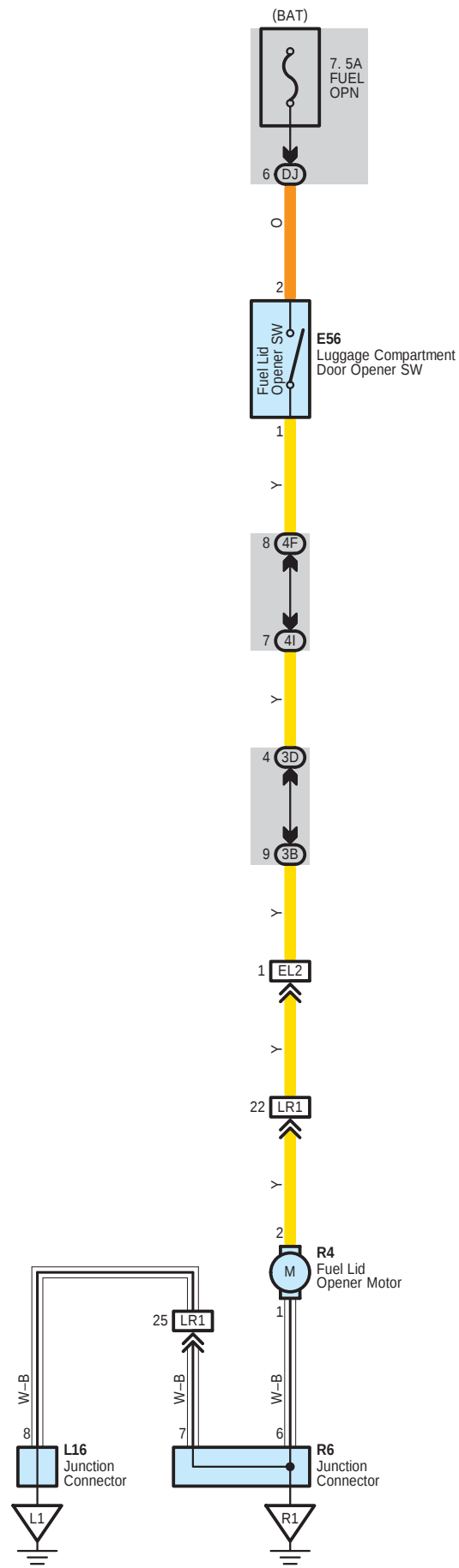
 : Connector Joining Wire Harness and Wire Harness

Code	See Page	Joining Wire Harness and Wire Harness (Connector Location)
BA2	68	Engine Wire and Engine Room Main Wire (Inside of the Engine Room R/B and Engine Room J/B)
EA1	69	Instrument Panel Wire and Engine Room Main Wire (Left Kick Panel)
EL2	69	Instrument Panel Wire and Floor Wire (Left Kick Panel)

 : Ground Points

Code	See Page	Ground Points Location
E1	69	Left Side of the Instrument Panel Reinforcement
E2	69	Instrument Panel Brace LH
L1	70	Rear Pillar LH

Fuel Lid Opener



 : Parts Location

Code	See Page	Code	See Page	Code	See Page
E56	59	R4	65		
L16	62	R6	65		

 : Junction Block and Wire Harness Connector

Code	See Page	Junction Block and Wire Harness (Connector Location)
3B	36	Instrument Panel Wire and J/B No.3 (Instrument Panel Left)
3D		
4F	42	Instrument Panel Wire and J/B No.4 (Instrument Panel Right)
4I		
DJ	30	Instrument Panel Wire and Instrument Panel J/B (Lower Finish Panel)

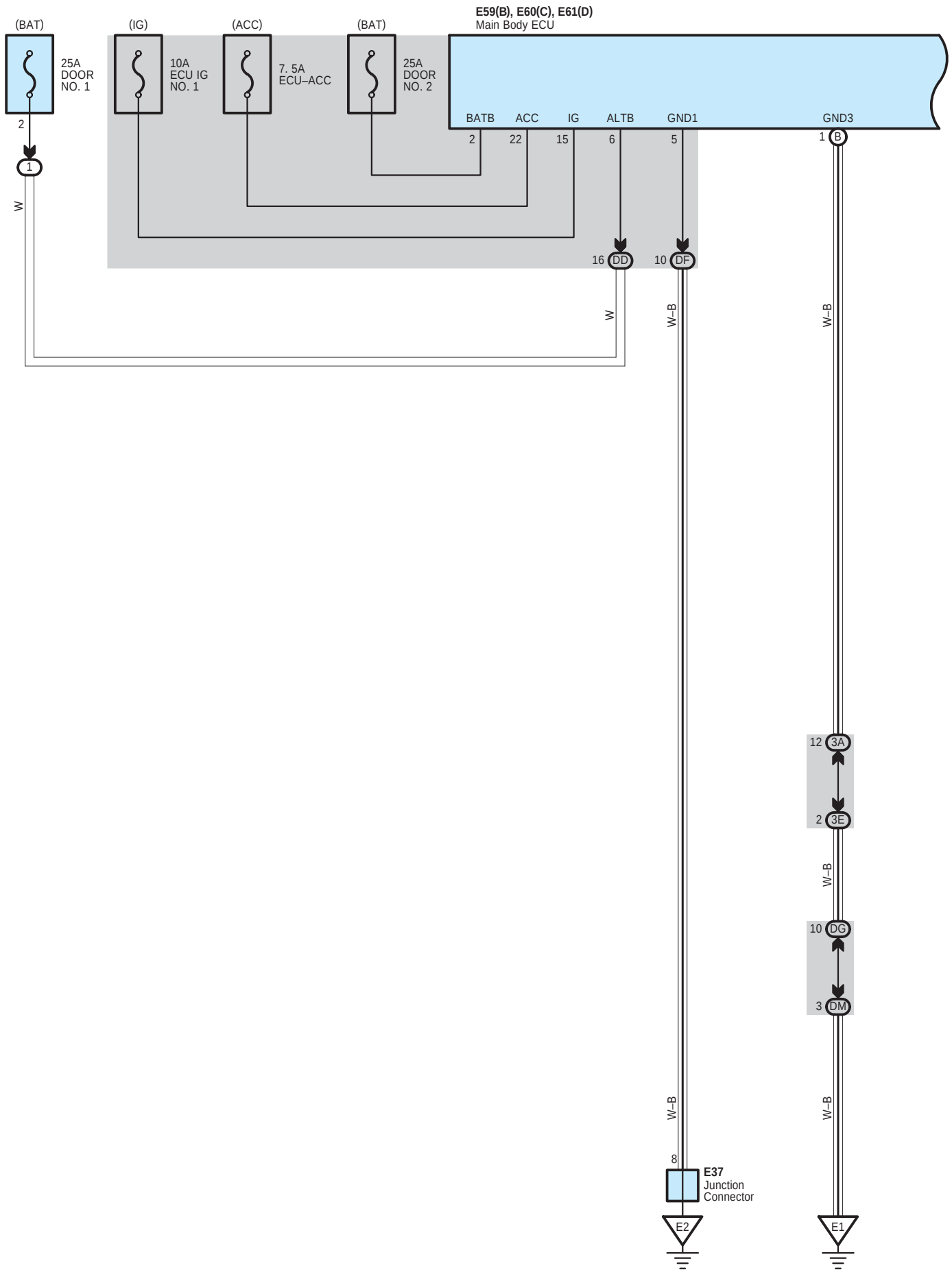
 : Connector Joining Wire Harness and Wire Harness

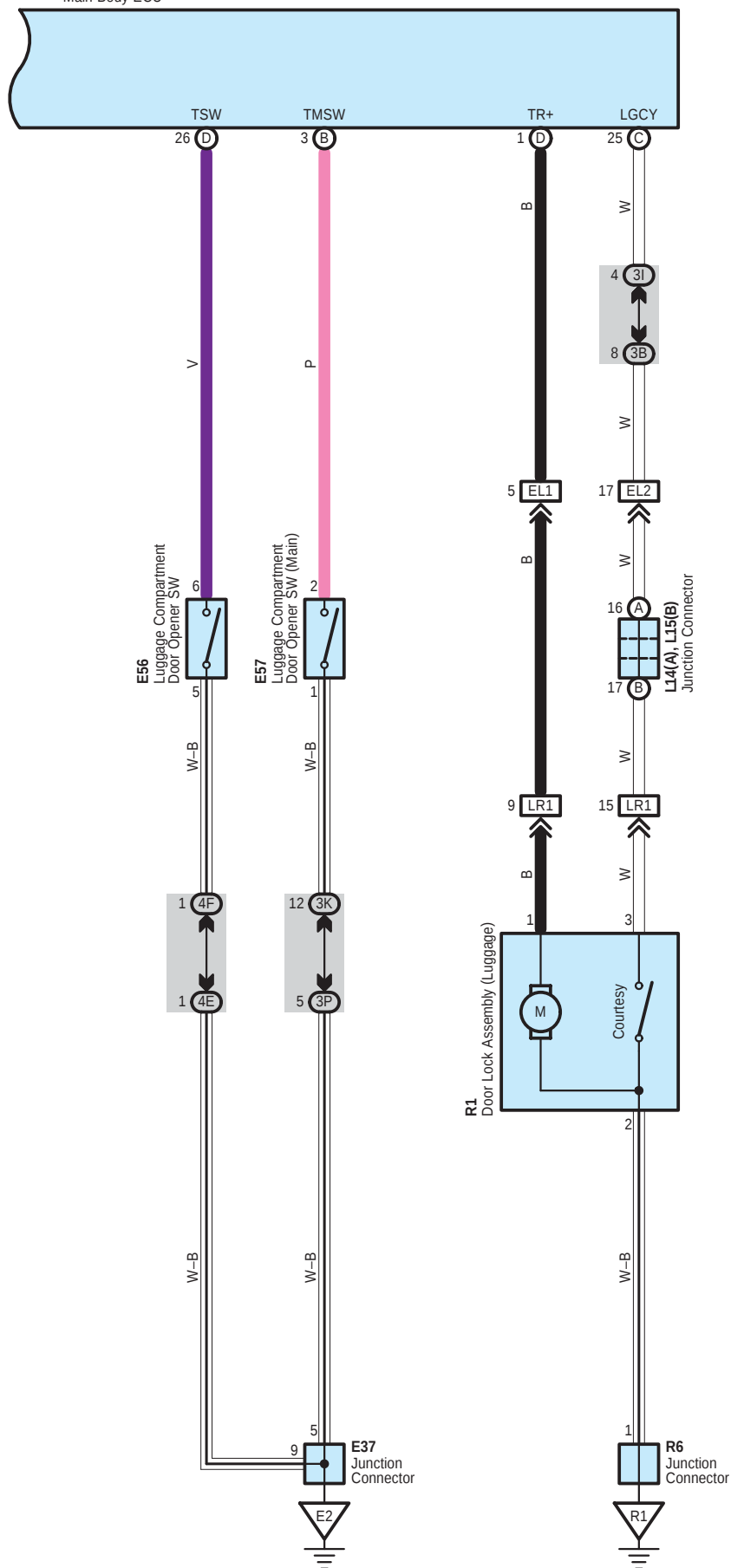
Code	See Page	Joining Wire Harness and Wire Harness (Connector Location)
EL2	69	Instrument Panel Wire and Floor Wire (Left Kick Panel)
LR1	70	Floor Wire and Luggage Room Wire (Roof Side Rear Inner Panel LH)

 : Ground Points

Code	See Page	Ground Points Location
L1	70	Rear Pillar LH
R1	70	Roof Side Rear Inner Panel LH

Luggage Compartment Door Opener





Luggage Compartment Door Opener

: Parts Location

Code		See Page		Code		See Page		Code		See Page	
E37		58		E60	C	59		R1		65	
E56		59		E61	D	59		R6		65	
E57		59		L14	A	62					
E59	B	59		L15	B	62					

: Relay Blocks

Code	See Page	Relay Blocks (Relay Block Location)
1	22	Engine Room R/B (Engine Compartment Left)

: Junction Block and Wire Harness Connector

Code	See Page	Junction Block and Wire Harness (Connector Location)
3A	36	Instrument Panel Wire and J/B No.3 (Instrument Panel Left)
3B		
3E		
3I		
3K		
3P		
4E	42	Instrument Panel Wire and J/B No.4 (Instrument Panel Right)
4F		
DD	30	Engine Room Main Wire and Instrument Panel J/B (Lower Finish Panel)
DF	30	Instrument Panel Wire and Instrument Panel J/B (Lower Finish Panel)
DG	31	
DM	30	

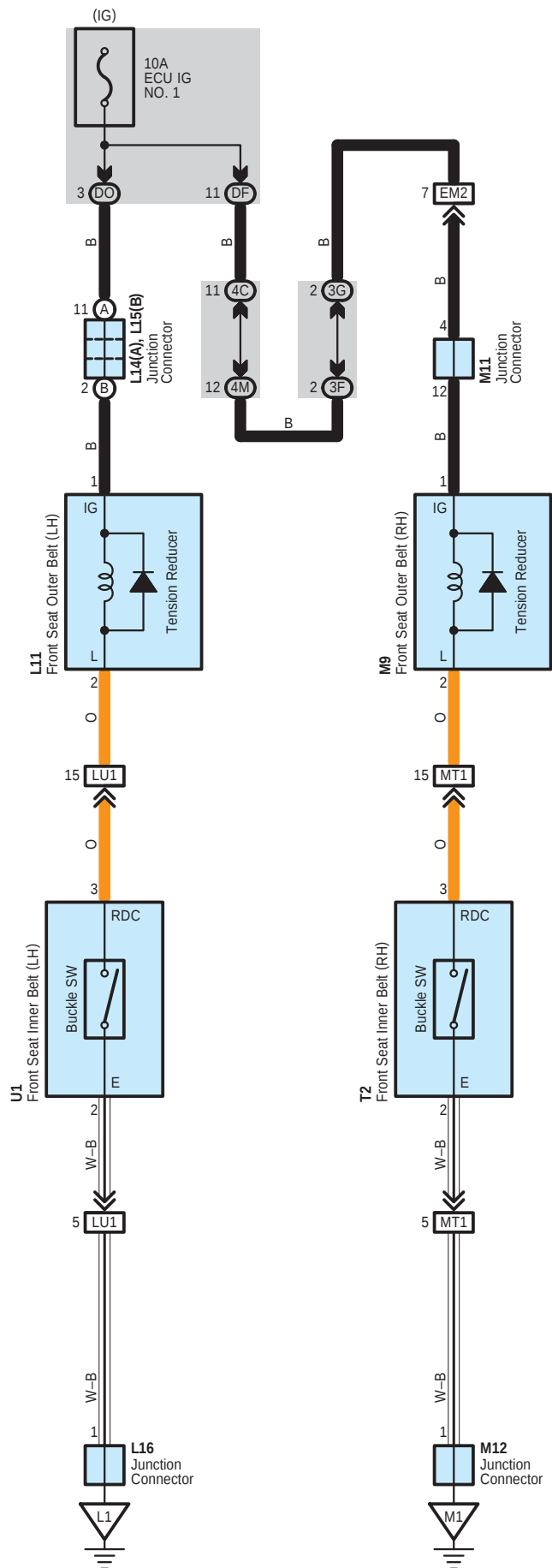
: Connector Joining Wire Harness and Wire Harness

Code	See Page	Joining Wire Harness and Wire Harness (Connector Location)
EL1	69	Instrument Panel Wire and Floor Wire (Left Kick Panel)
EL2		
LR1	70	Floor Wire and Luggage Room Wire (Roof Side Rear Inner Panel LH)

: Ground Points

Code	See Page	Ground Points Location
E1	69	Left Side of the Instrument Panel Reinforcement
E2	69	Instrument Panel Brace LH
R1	70	Roof Side Rear Inner Panel LH

Electric Tension Reducer



 : Parts Location

Code		See Page	Code		See Page	Code		See Page
L11		62	L16		62	M12		62
L14	A	62	M9		62	T2		66
L15	B	62	M11		62	U1		66

 : Junction Block and Wire Harness Connector

Code	See Page	Junction Block and Wire Harness (Connector Location)
3F	36	Instrument Panel Wire and J/B No.3 (Instrument Panel Left)
3G		
4C	42	Instrument Panel Wire and J/B No.4 (Instrument Panel Right)
4M		
DF	30	Instrument Panel Wire and Instrument Panel J/B (Lower Finish Panel)
DO	30	Floor Wire and Instrument Panel J/B (Lower Finish Panel)

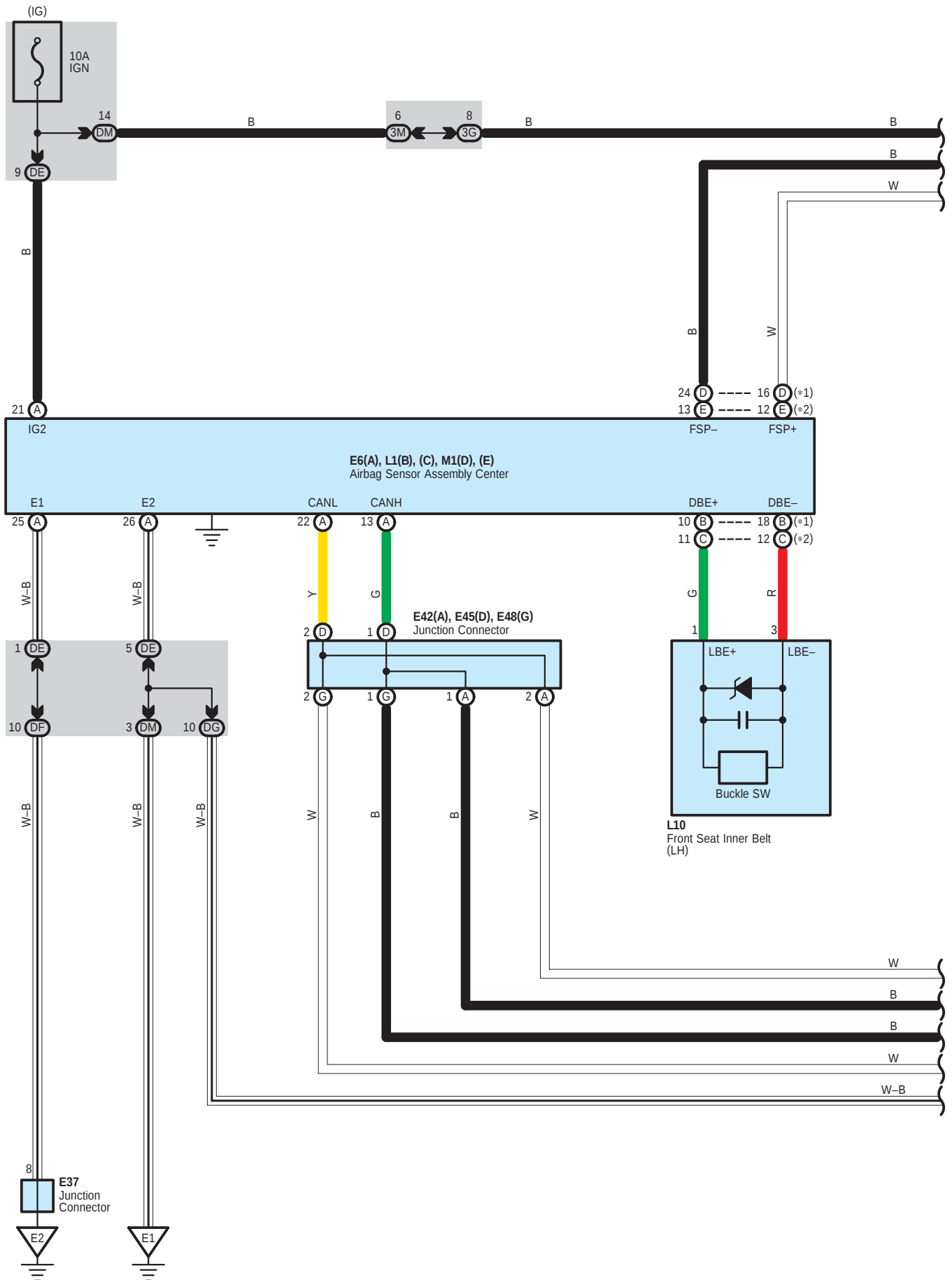
 : Connector Joining Wire Harness and Wire Harness

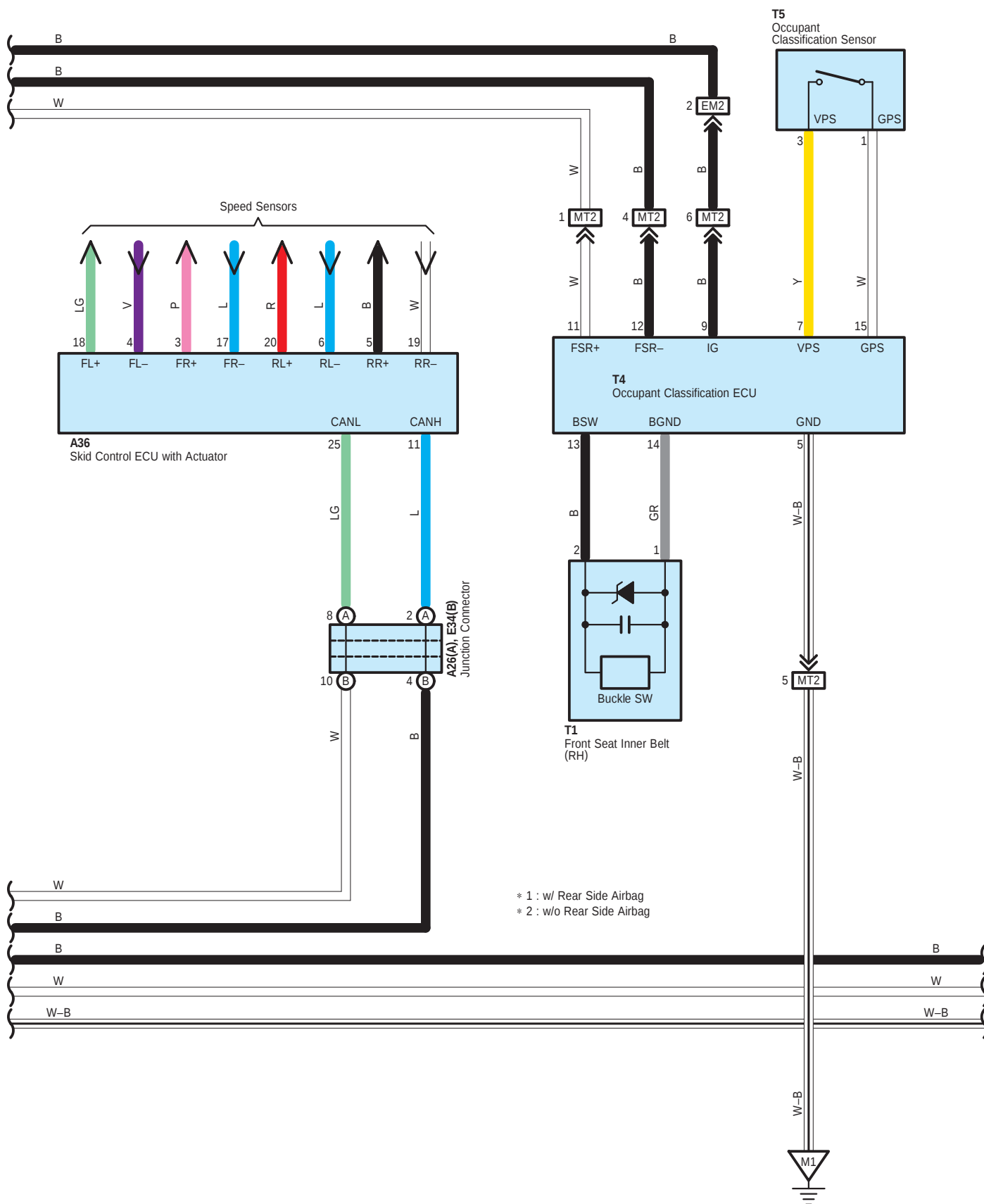
Code	See Page	Joining Wire Harness and Wire Harness (Connector Location)
EM2	69	Instrument Panel Wire and Floor No.2 Wire (Right Kick Panel)
LU1	71	Floor Wire and Front Seat LH Wire (Under the Front LH Seat)
MT1	71	Floor No.2 Wire and Front Seat RH Wire (Under the Front RH Seat)

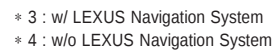
 : Ground Points

Code	See Page	Ground Points Location
L1	70	Rear Pillar LH
M1	70	Roof Side Rear Inner Panel RH

Seat Belt Warning







 : Parts Location

Code		See Page	Code		See Page	Code		See Page
A26	A	60	E42	A	48, 59	M1	D	61
A36		55	E45	D	48, 59		E	61
E3		58	E48	G	48, 59	T1		66
E6	A	58	E62		59	T4		66
E19		58	L1	B	61	T5		66
E34	B	58		C	61			
E37		58	L10		66			

 : Relay Blocks

Code	See Page	Relay Blocks (Relay Block Location)
1	22	Engine Room R/B (Engine Compartment Left)

 : Junction Block and Wire Harness Connector

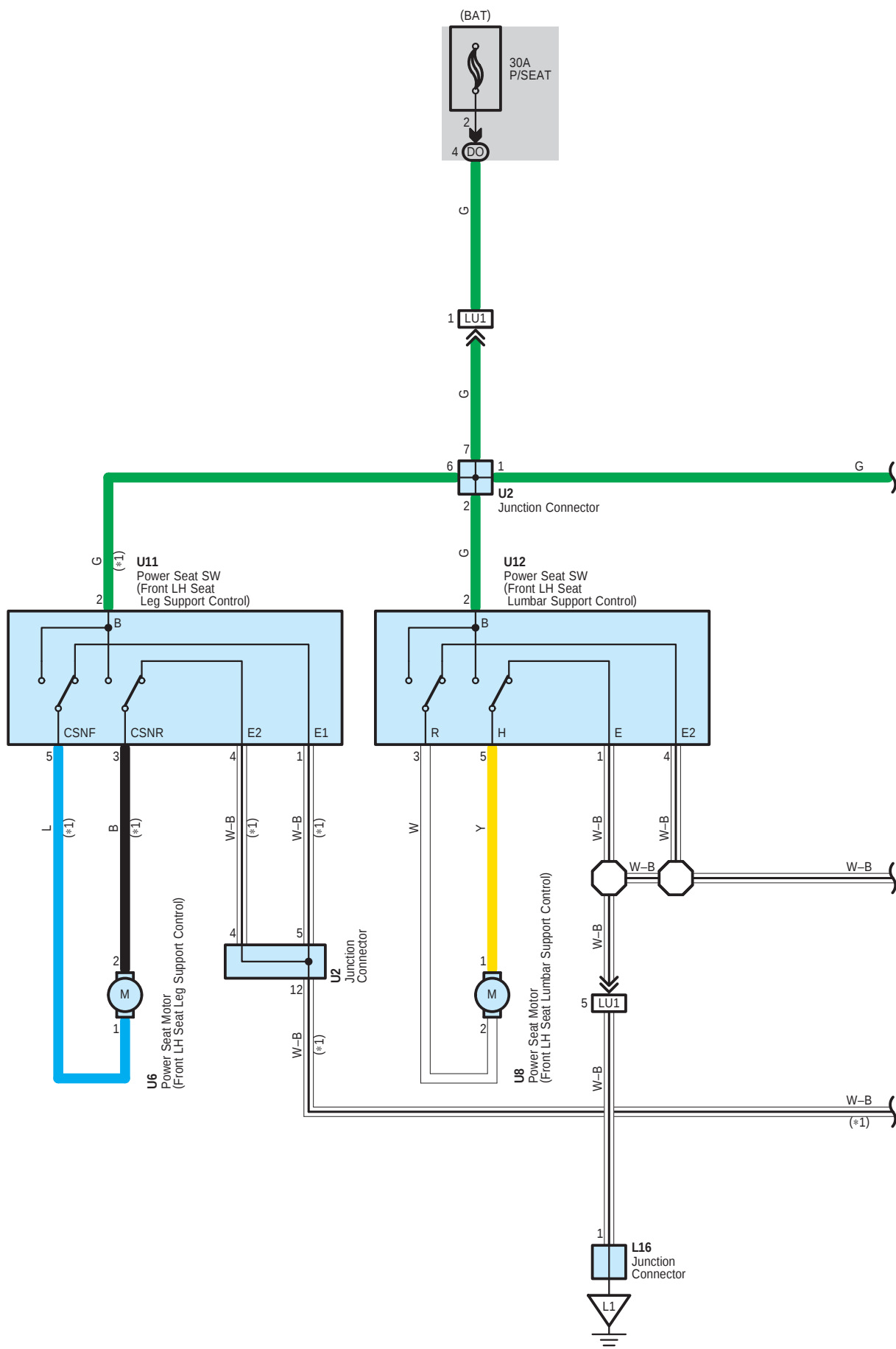
Code	See Page	Junction Block and Wire Harness (Connector Location)
1A	24	Engine Room Main Wire and Engine Room J/B (Engine Compartment Left)
3D	36	Instrument Panel Wire and J/B No.3 (Instrument Panel Left)
3E		
3G		
3M		
3P		
3S		
3T		
4C	42	Instrument Panel Wire and J/B No.4 (Instrument Panel Right)
4G		
4I		
DD	30	Engine Room Main Wire and Instrument Panel J/B (Lower Finish Panel)
DE	30	Instrument Panel Wire and Instrument Panel J/B (Lower Finish Panel)
DF		
DG	31	
DM	30	

 : Connector Joining Wire Harness and Wire Harness

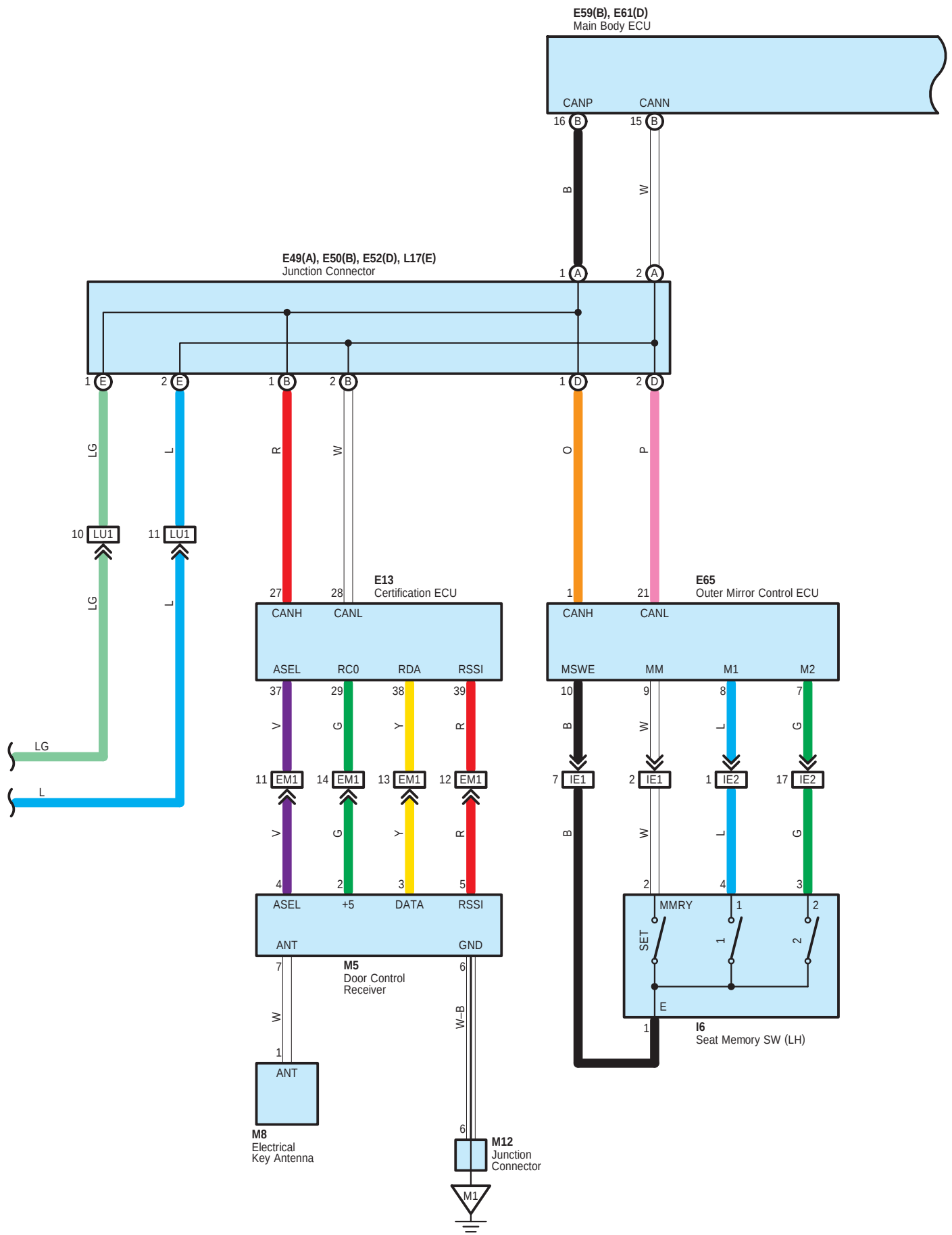
Code	See Page	Joining Wire Harness and Wire Harness (Connector Location)
EA1	69	Instrument Panel Wire and Engine Room Main Wire (Left Kick Panel)
EM2	69	Instrument Panel Wire and Floor No.2 Wire (Right Kick Panel)
MT2	71	Floor No.2 Wire and Front Seat RH Wire (Under the Front RH Seat)

 : Ground Points

Code	See Page	Ground Points Location
E1	69	Left Side of the Instrument Panel Reinforcement
E2	69	Instrument Panel Brace LH
M1	70	Roof Side Rear Inner Panel RH



Power Seat for Driver's Seat with Memory



Power Seat for Driver's Seat with Memory

: Parts Location

Code		See Page	Code		See Page	Code		See Page
A10	A	54	E61	D	59	U3	A	66
A26	A	60	E65		59	U4	B	66
B12	B	56	I6		63	U5		66
B36		57	L7		62	U6		66
E13		58	L14	A	62	U7		66
E34	B	58	L15	B	62	U8		66
E42	A	48, 59	L16		62	U9		66
E43	B	48, 59	L17	E	50, 61	U10		66
E49	A	50, 59	M5		62	U11		66
E50	B	50, 59	M8		62	U12		66
E52	D	50, 59	M12		62			
E59	B	59	U2		66			

: Relay Blocks

Code	See Page	Relay Blocks (Relay Block Location)
1	22	Engine Room R/B (Engine Compartment Left)

: Junction Block and Wire Harness Connector

Code	See Page	Junction Block and Wire Harness (Connector Location)
3B	36	Instrument Panel Wire and J/B No.3 (Instrument Panel Left)
3F		
3Q		
4C	42	Instrument Panel Wire and J/B No.4 (Instrument Panel Right)
4M		
DD	30	Engine Room Main Wire and Instrument Panel J/B (Lower Finish Panel)
DF	30	Instrument Panel Wire and Instrument Panel J/B (Lower Finish Panel)
DH	31	
DO	30	Floor Wire and Instrument Panel J/B (Lower Finish Panel)

: Connector Joining Wire Harness and Wire Harness

Code	See Page	Joining Wire Harness and Wire Harness (Connector Location)
BA2	68	Engine Wire and Engine Room Main Wire (Inside of the Engine Room R/B and Engine Room J/B)
EA1	69	Instrument Panel Wire and Engine Room Main Wire (Left Kick Panel)
EL2	69	Instrument Panel Wire and Floor Wire (Left Kick Panel)
EM1	69	Instrument Panel Wire and Floor No.2 Wire (Right Kick Panel)
IE1	69	Front Door LH Wire and Instrument Panel Wire (Left Kick Panel)
IE2		
LU1	71	Floor Wire and Front Seat LH Wire (Under the Front LH Seat)

: Ground Points

Code	See Page	Ground Points Location
L1	70	Rear Pillar LH
M1	70	Roof Side Rear Inner Panel RH

 : Parts Location

Code	See Page	Code	See Page	Code	See Page
L16	62	U7	66	U10	66
U2	66	U8	66	U12	66
U5	66	U9	66	U13	66

 : Junction Block and Wire Harness Connector

Code	See Page	Junction Block and Wire Harness (Connector Location)
DO	30	Floor Wire and Instrument Panel J/B (Lower Finish Panel)

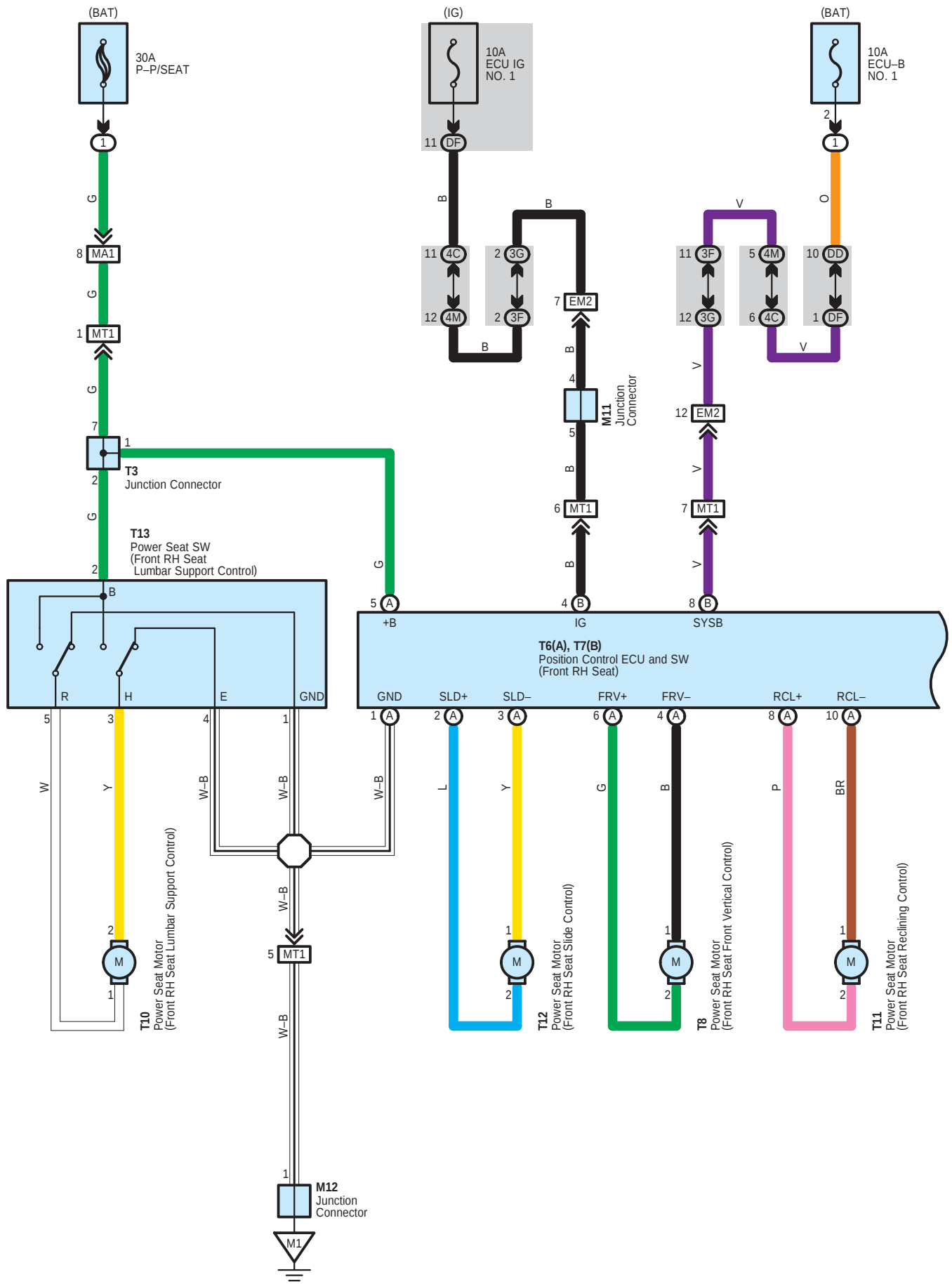
 : Connector Joining Wire Harness and Wire Harness

Code	See Page	Joining Wire Harness and Wire Harness (Connector Location)
LU1	71	Floor Wire and Front Seat LH Wire (Under the Front LH Seat)

 : Ground Points

Code	See Page	Ground Points Location
L1	70	Rear Pillar LH

Power Seat for Front Passenger's Seat with Memory



Power Seat for Front Passenger's Seat with Memory

: Parts Location

Code		See Page	Code		See Page	Code		See Page
A10	A	54	E59	B	59	T6	A	66
A26	A	60	E60	C	59	T7	B	66
B12	B	56	E65		59	T8		66
B36		57	H7		63	T9		66
E34	B	58	M6		62	T10		66
E42	A	48, 59	M11		62	T11		66
E43	B	48, 59	M12		62	T12		66
E49	A	50, 59	M14	G	50, 61	T13		66
E52	D	50, 59	T3		66			

: Relay Blocks

Code	See Page	Relay Blocks (Relay Block Location)
1	22	Engine Room R/B (Engine Compartment Left)

: Junction Block and Wire Harness Connector

Code	See Page	Junction Block and Wire Harness (Connector Location)
3F	36	Instrument Panel Wire and J/B No.3 (Instrument Panel Left)
3G		
3I		
4C	42	Instrument Panel Wire and J/B No.4 (Instrument Panel Right)
4M		
DD	30	Engine Room Main Wire and Instrument Panel J/B (Lower Finish Panel)
DF	30	Instrument Panel Wire and Instrument Panel J/B (Lower Finish Panel)
DH	31	

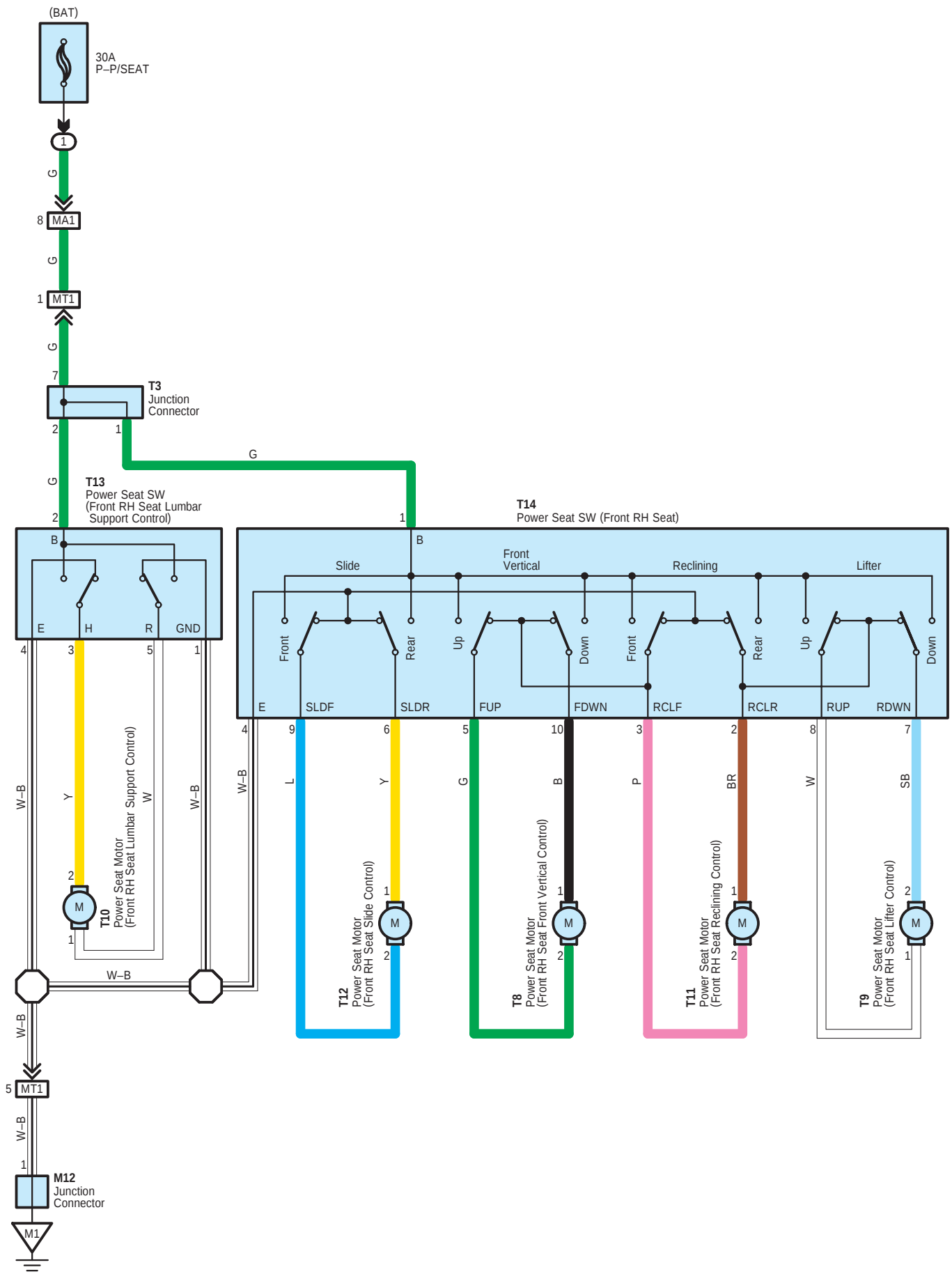
: Connector Joining Wire Harness and Wire Harness

Code	See Page	Joining Wire Harness and Wire Harness (Connector Location)
BA2	68	Engine Wire and Engine Room Main Wire (Inside of the Engine Room R/B and Engine Room J/B)
EA1	69	Instrument Panel Wire and Engine Room Main Wire (Left Kick Panel)
EM2	69	Instrument Panel Wire and Floor No.2 Wire (Right Kick Panel)
HE1	69	Front Door RH Wire and Instrument Panel Wire (Right Kick Panel)
HE2		
MA1	69	Floor No.2 Wire and Engine Room Main Wire (Cowl Side Right)
MT1	71	Floor No.2 Wire and Front Seat RH Wire (Under the Front RH Seat)

: Ground Points

Code	See Page	Ground Points Location
M1	70	Roof Side Rear Inner Panel RH

Power Seat for Front Passenger's Seat without Memory



 : Parts Location

Code	See Page	Code	See Page	Code	See Page
M12	62	T9	66	T12	66
T3	66	T10	66	T13	66
T8	66	T11	66	T14	66

 : Relay Blocks

Code	See Page	Relay Blocks (Relay Block Location)
1	22	Engine Room R/B (Engine Compartment Left)

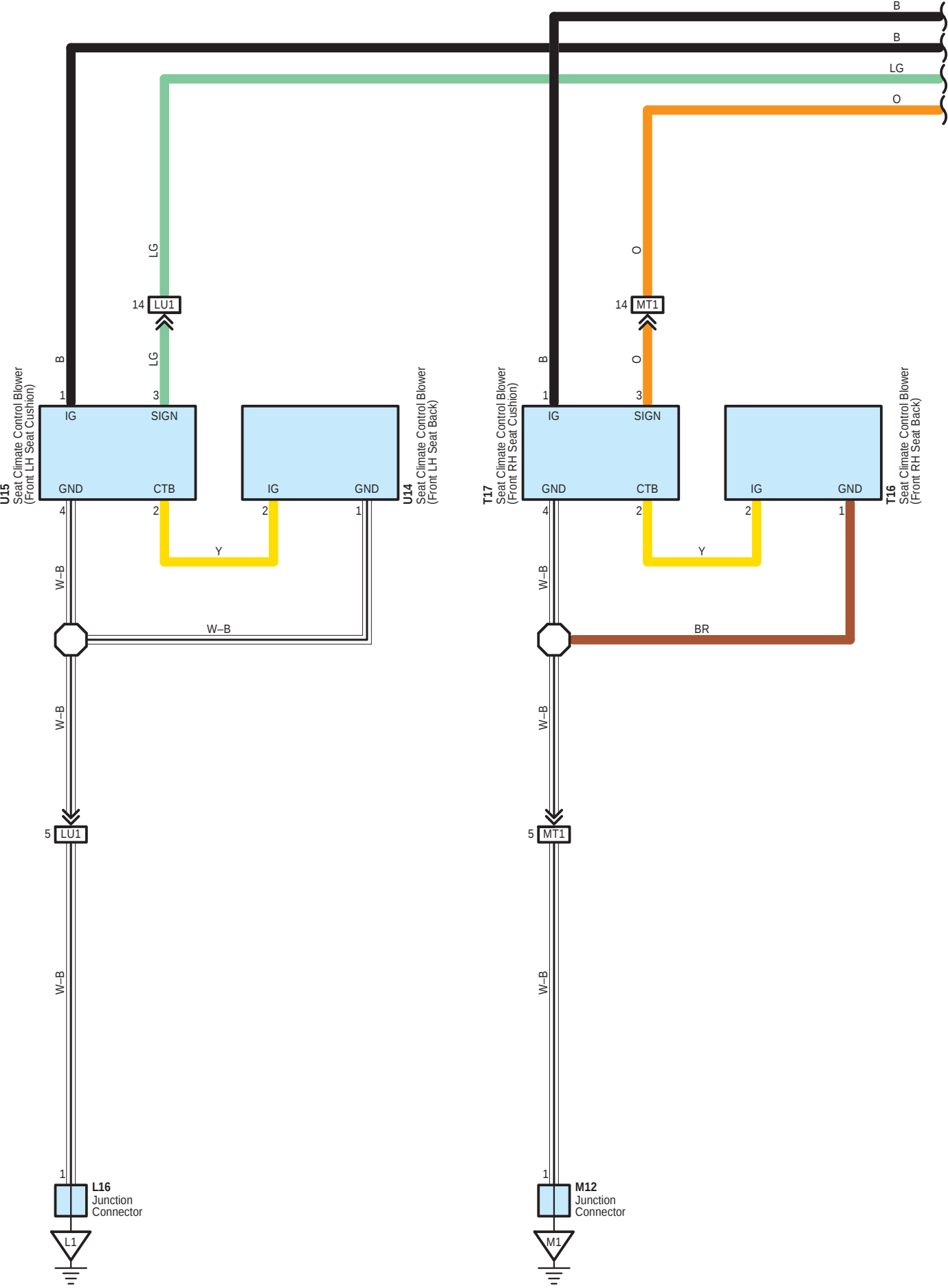
 : Connector Joining Wire Harness and Wire Harness

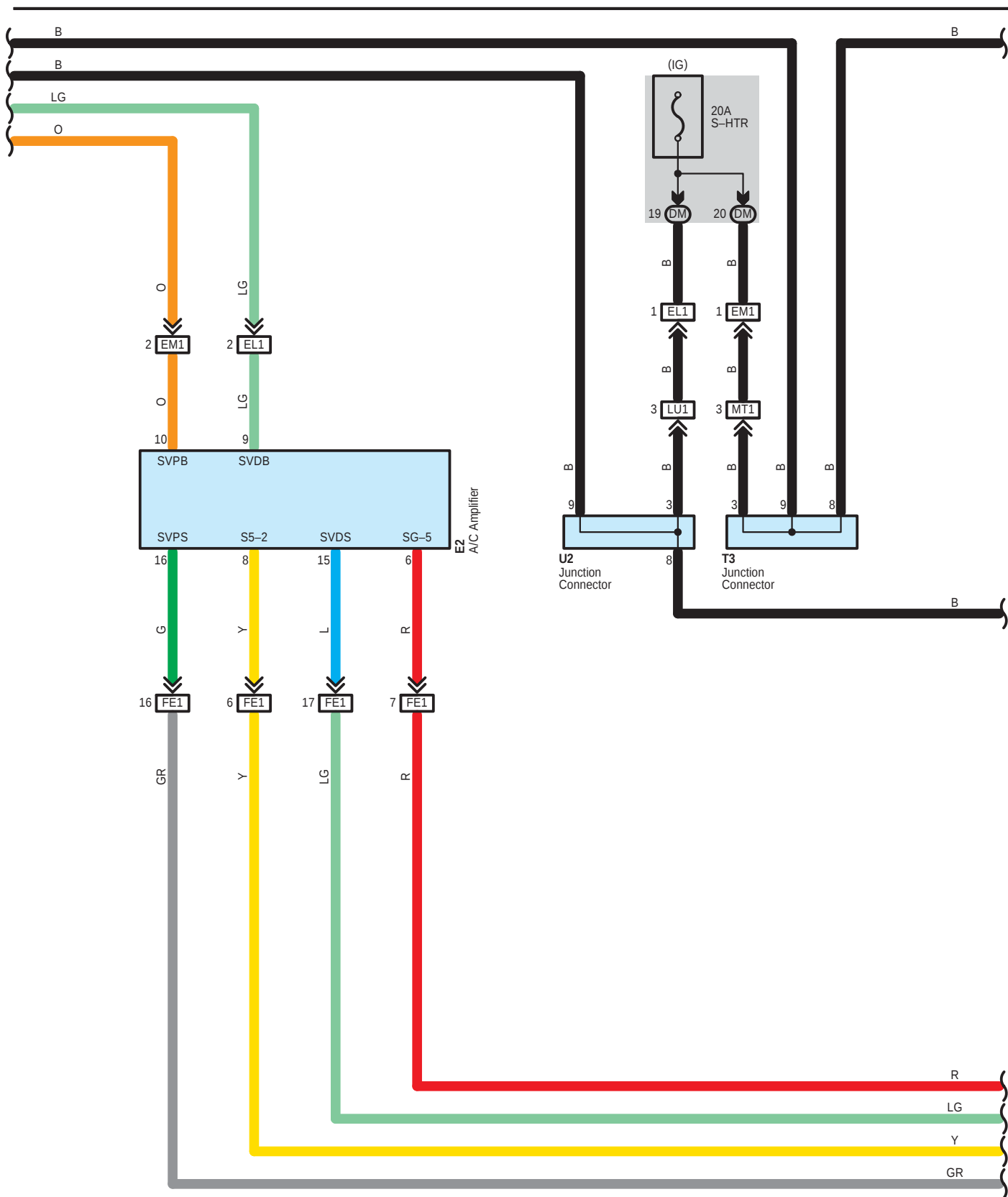
Code	See Page	Joining Wire Harness and Wire Harness (Connector Location)
MA1	69	Floor No.2 Wire and Engine Room Main Wire (Cowl Side Right)
MT1	71	Floor No.2 Wire and Front Seat RH Wire (Under the Front RH Seat)

 : Ground Points

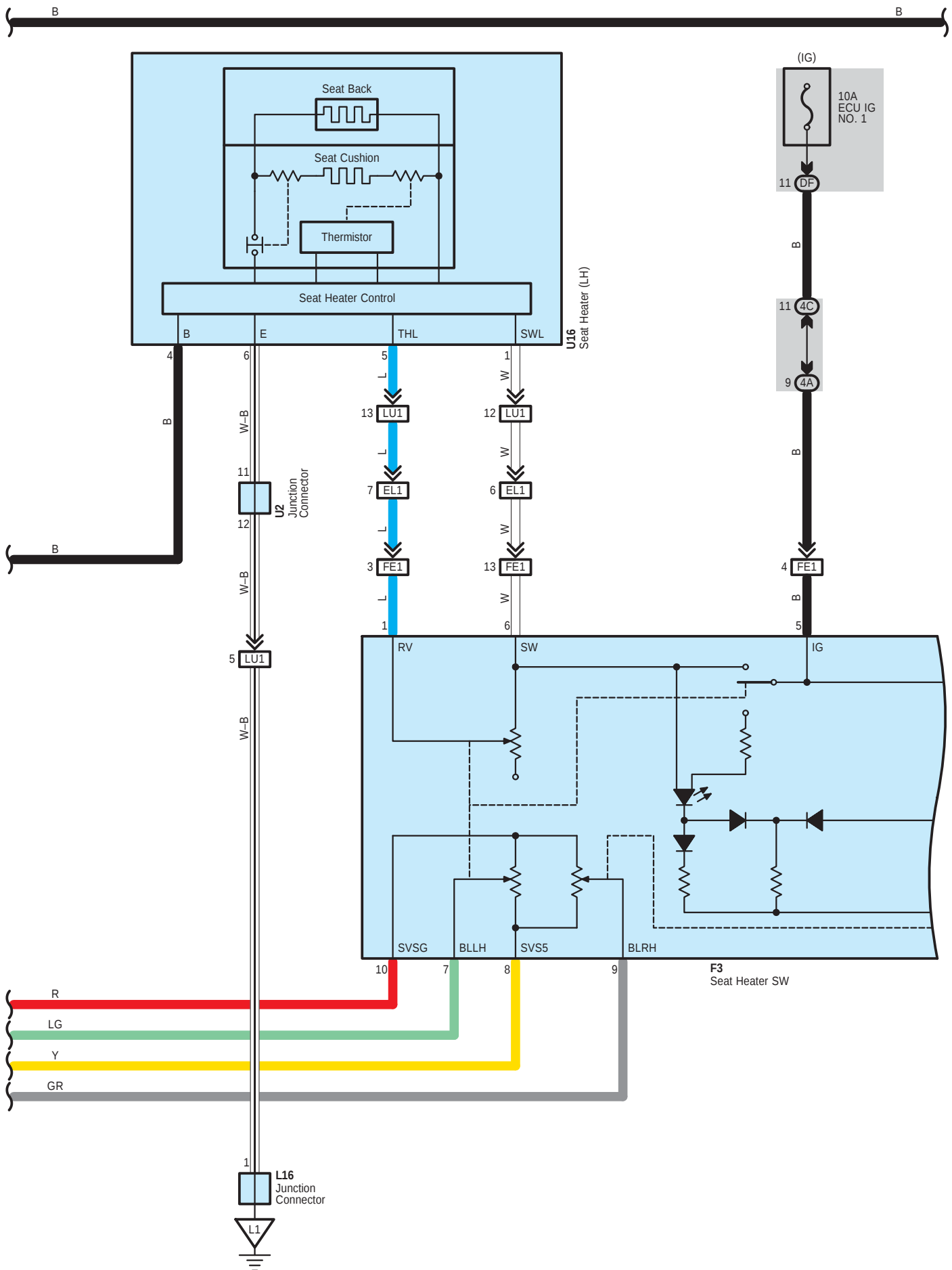
Code	See Page	Ground Points Location
M1	70	Roof Side Rear Inner Panel RH

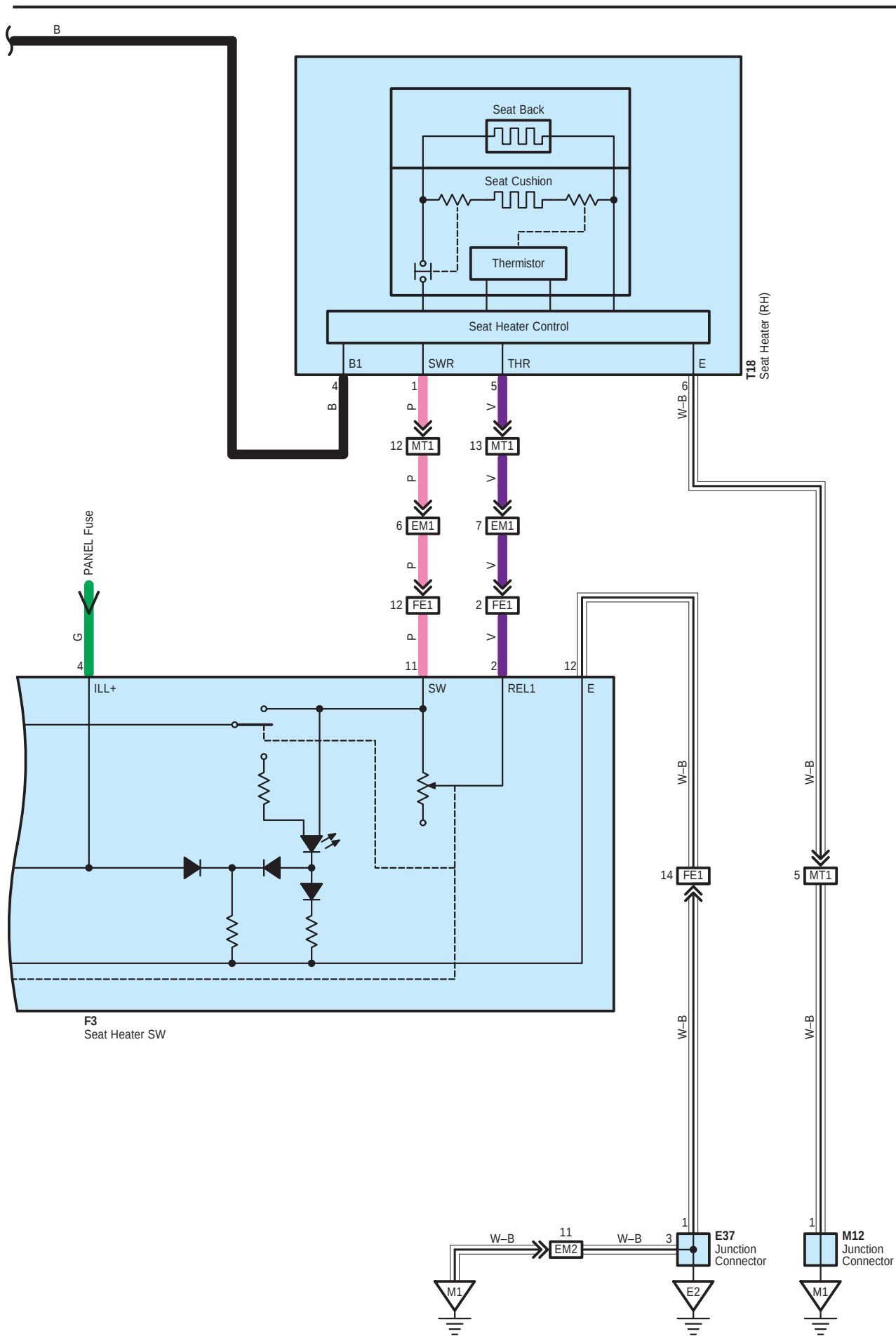
Climate Control Seat and Seat Heater





Climate Control Seat and Seat Heater





Climate Control Seat and Seat Heater

: Parts Location

Code	See Page	Code	See Page	Code	See Page
E2	58	T3	66	U14	66
E37	58	T16	66	U15	66
F3	61	T17	66	U16	66
L16	62	T18	66		
M12	62	U2	66		

: Junction Block and Wire Harness Connector

Code	See Page	Junction Block and Wire Harness (Connector Location)
4A	42	Instrument Panel Wire and J/B No.4 (Instrument Panel Right)
4C		
DF	30	Instrument Panel Wire and Instrument Panel J/B (Lower Finish Panel)
DM		

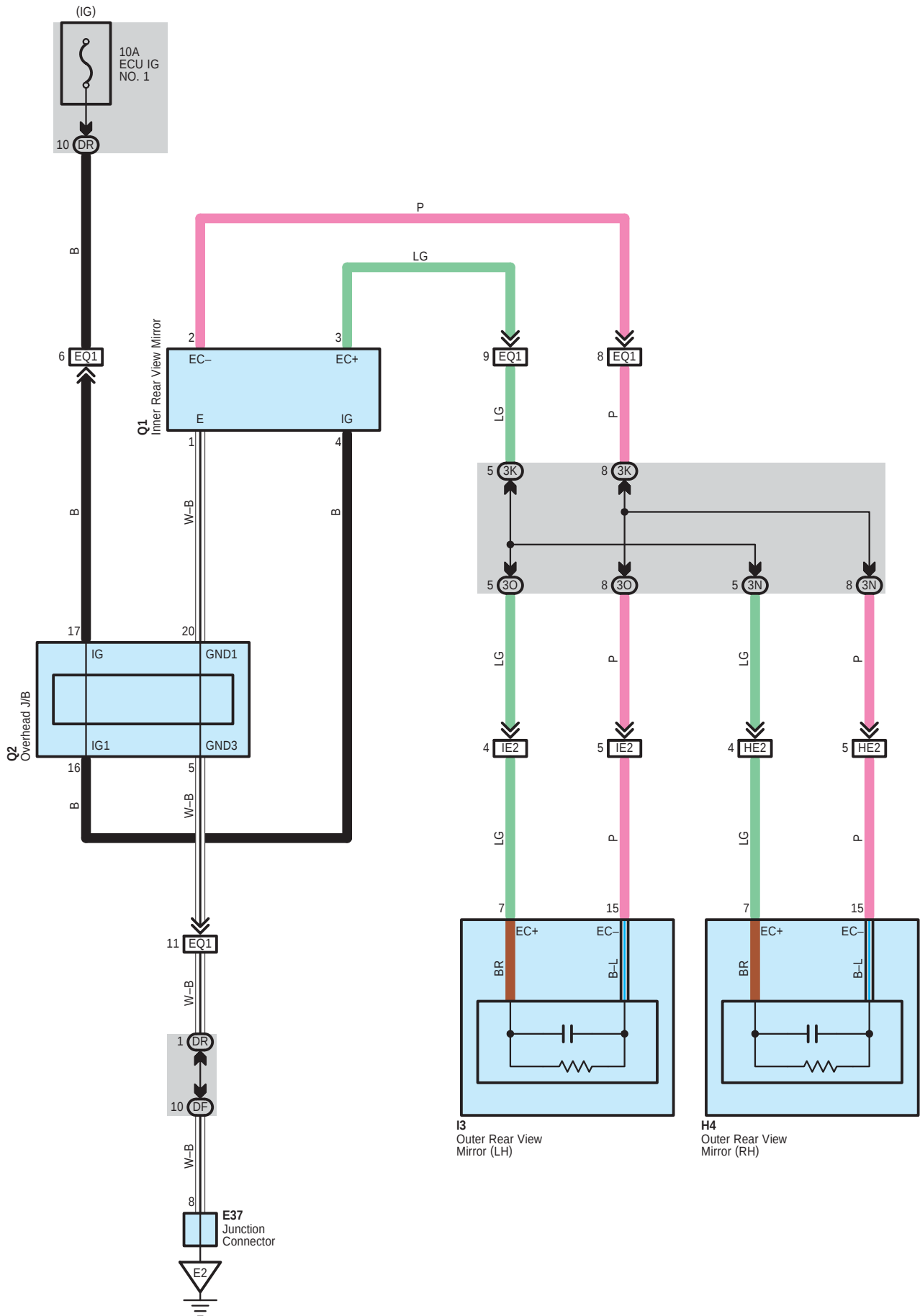
: Connector Joining Wire Harness and Wire Harness

Code	See Page	Joining Wire Harness and Wire Harness (Connector Location)
EL1	69	Instrument Panel Wire and Floor Wire (Left Kick Panel)
EM1	69	Instrument Panel Wire and Floor No.2 Wire (Right Kick Panel)
EM2		
FE1	69	Instrument Panel No.2 Wire and Instrument Panel Wire (Under the Console Box)
LU1	71	Floor Wire and Front Seat LH Wire (Under the Front LH Seat)
MT1	71	Floor No.2 Wire and Front Seat RH Wire (Under the Front RH Seat)

: Ground Points

Code	See Page	Ground Points Location
E2	69	Instrument Panel Brace LH
L1	70	Rear Pillar LH
M1	70	Roof Side Rear Inner Panel RH

Automatic Glare-Resistant EC Mirror and Compass



 : Parts Location

Code	See Page	Code	See Page	Code	See Page
E37	58	I3	63	Q2	64
H4	63	Q1	64		

 : Junction Block and Wire Harness Connector

Code	See Page	Junction Block and Wire Harness (Connector Location)
3K	36	Instrument Panel Wire and J/B No.3 (Instrument Panel Left)
3N		
3O		
DF	30	Instrument Panel Wire and Instrument Panel J/B (Lower Finish Panel)
DR		

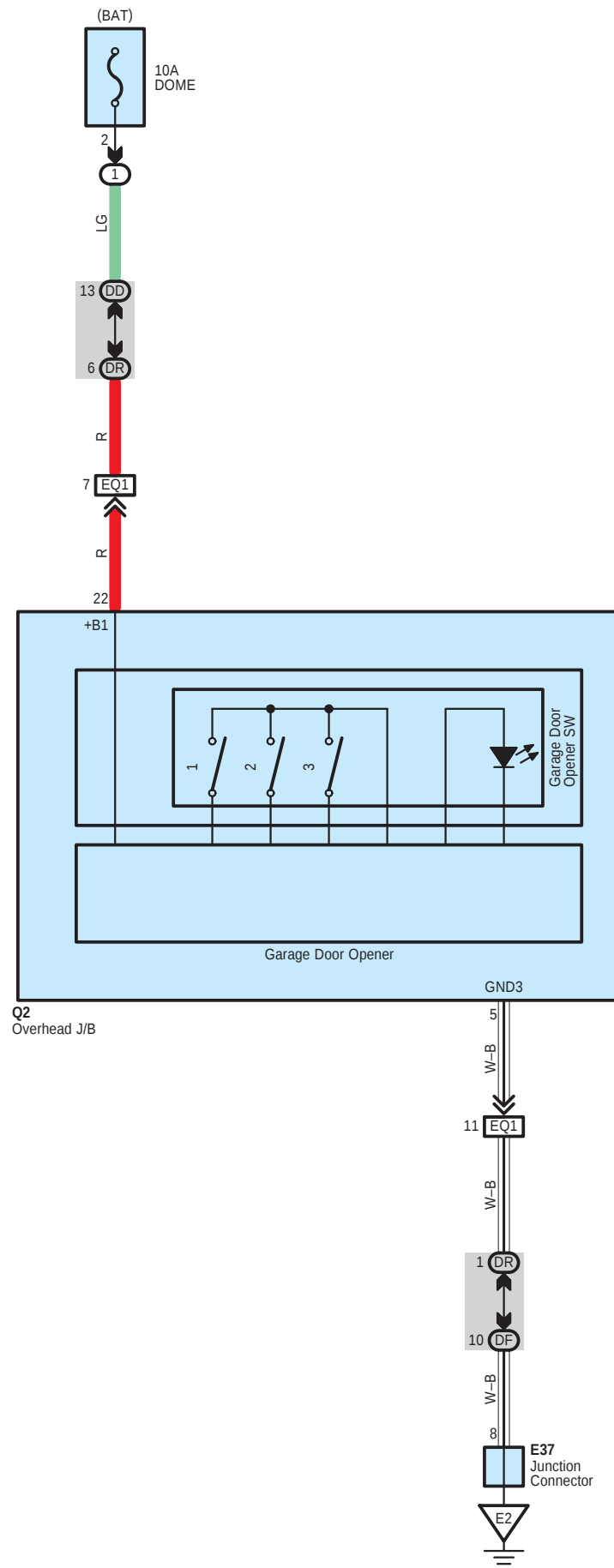
 : Connector Joining Wire Harness and Wire Harness

Code	See Page	Joining Wire Harness and Wire Harness (Connector Location)
EQ1	69	Instrument Panel Wire and Roof Wire (Front Pillar LH)
HE2	69	Front Door RH Wire and Instrument Panel Wire (Right Kick Panel)
IE2	69	Front Door LH Wire and Instrument Panel Wire (Left Kick Panel)

 : Ground Points

Code	See Page	Ground Points Location
E2	69	Instrument Panel Brace LH

Garage Door Opener



 : Parts Location

Code	See Page	Code	See Page	Code	See Page
E37	58	Q2	64		

 : Relay Blocks

Code	See Page	Relay Blocks (Relay Block Location)
1	22	Engine Room R/B (Engine Compartment Left)

 : Junction Block and Wire Harness Connector

Code	See Page	Junction Block and Wire Harness (Connector Location)
DD	30	Engine Room Main Wire and Instrument Panel J/B (Lower Finish Panel)
DF	30	Instrument Panel Wire and Instrument Panel J/B (Lower Finish Panel)
DR		

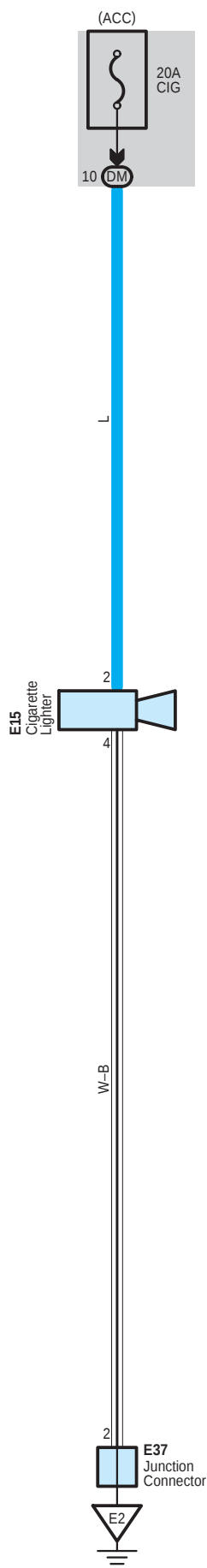
 : Connector Joining Wire Harness and Wire Harness

Code	See Page	Joining Wire Harness and Wire Harness (Connector Location)
EQ1	69	Instrument Panel Wire and Roof Wire (Front Pillar LH)

 : Ground Points

Code	See Page	Ground Points Location
E2	69	Instrument Panel Brace LH

Cigarette Lighter



 : Parts Location

Code	See Page	Code	See Page	Code	See Page
E15	58	E37	58		

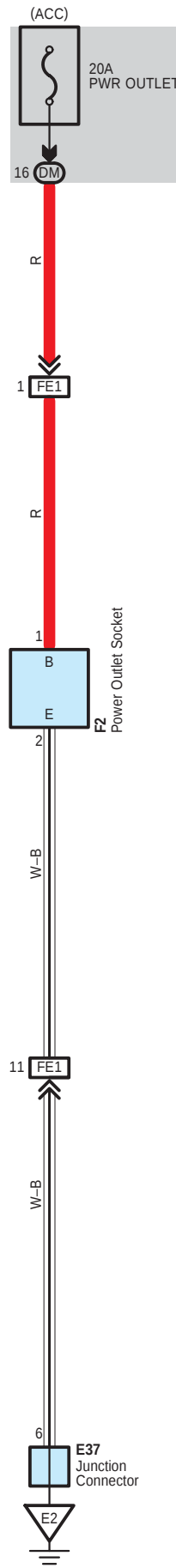
 : Junction Block and Wire Harness Connector

Code	See Page	Junction Block and Wire Harness (Connector Location)
DM	30	Instrument Panel Wire and Instrument Panel J/B (Lower Finish Panel)

 : Ground Points

Code	See Page	Ground Points Location
E2	69	Instrument Panel Brace LH

Power Outlet



 : Parts Location

Code	See Page	Code	See Page	Code	See Page
E37	58	F2	61		

 : Junction Block and Wire Harness Connector

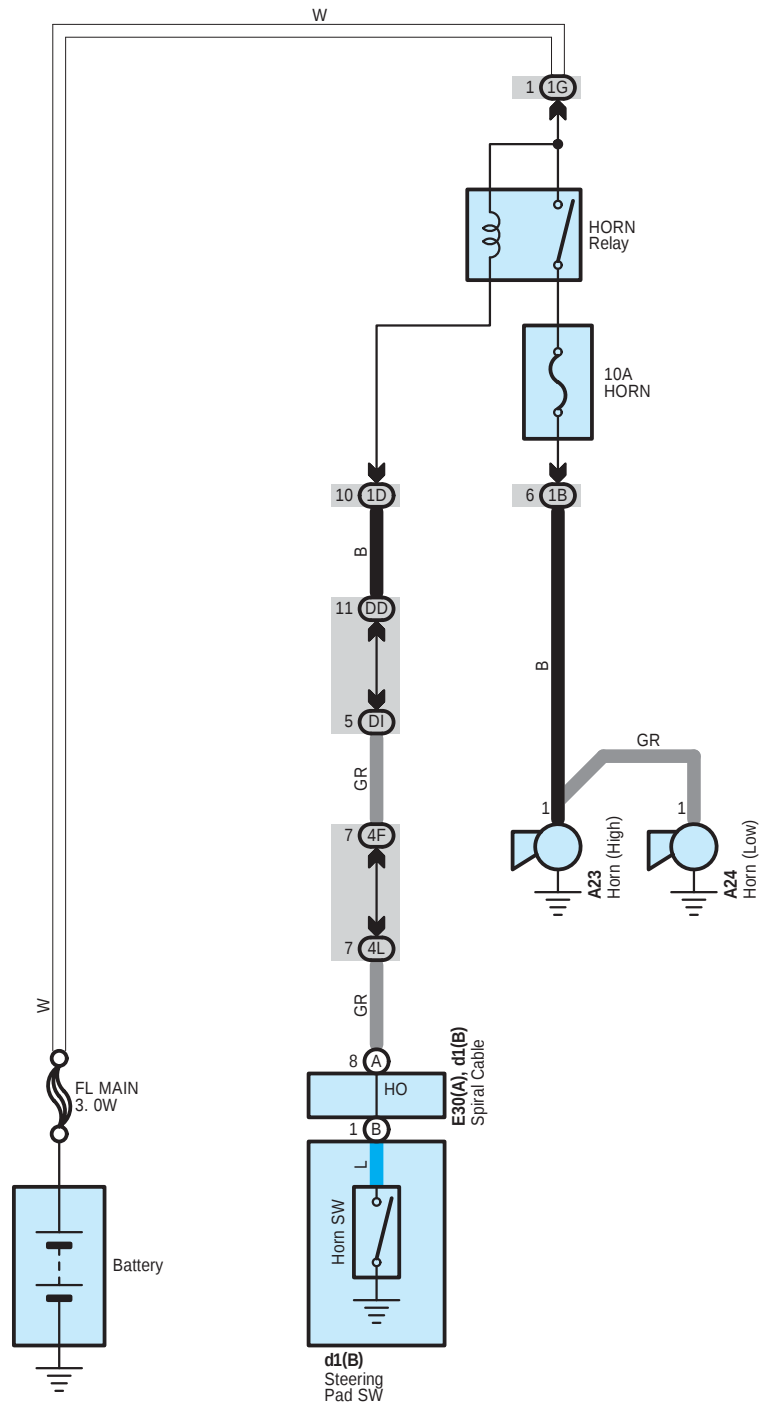
Code	See Page	Junction Block and Wire Harness (Connector Location)
DM	30	Instrument Panel Wire and Instrument Panel J/B (Lower Finish Panel)

 : Connector Joining Wire Harness and Wire Harness

Code	See Page	Joining Wire Harness and Wire Harness (Connector Location)
FE1	69	Instrument Panel No.2 Wire and Instrument Panel Wire (Under the Console Box)

 : Ground Points

Code	See Page	Ground Points Location
E2	69	Instrument Panel Brace LH



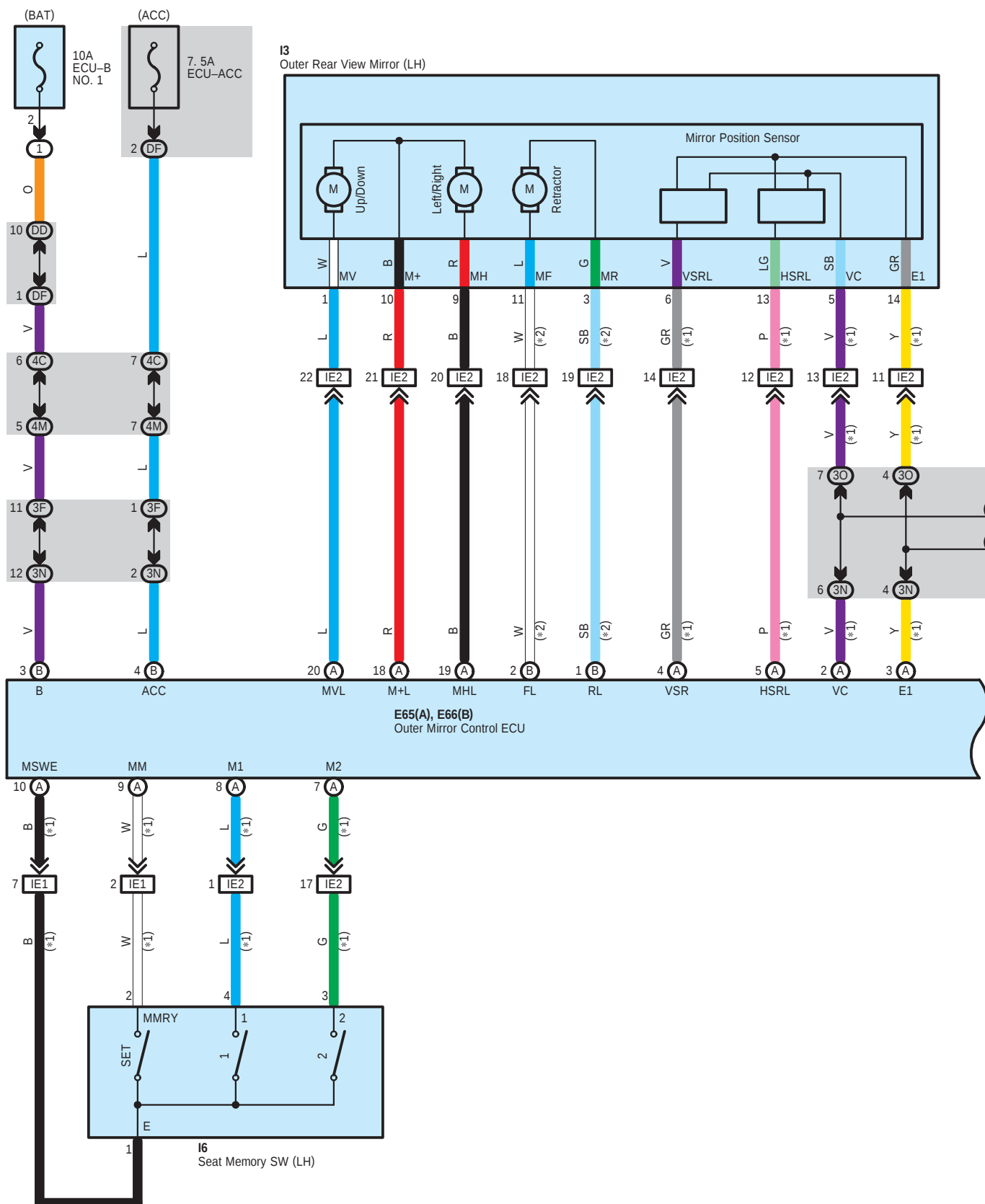
 : Parts Location

Code	See Page	Code	See Page	Code	See Page
A23	54	E30	A	58	
A24	54	d1	B	61	

 : Junction Block and Wire Harness Connector

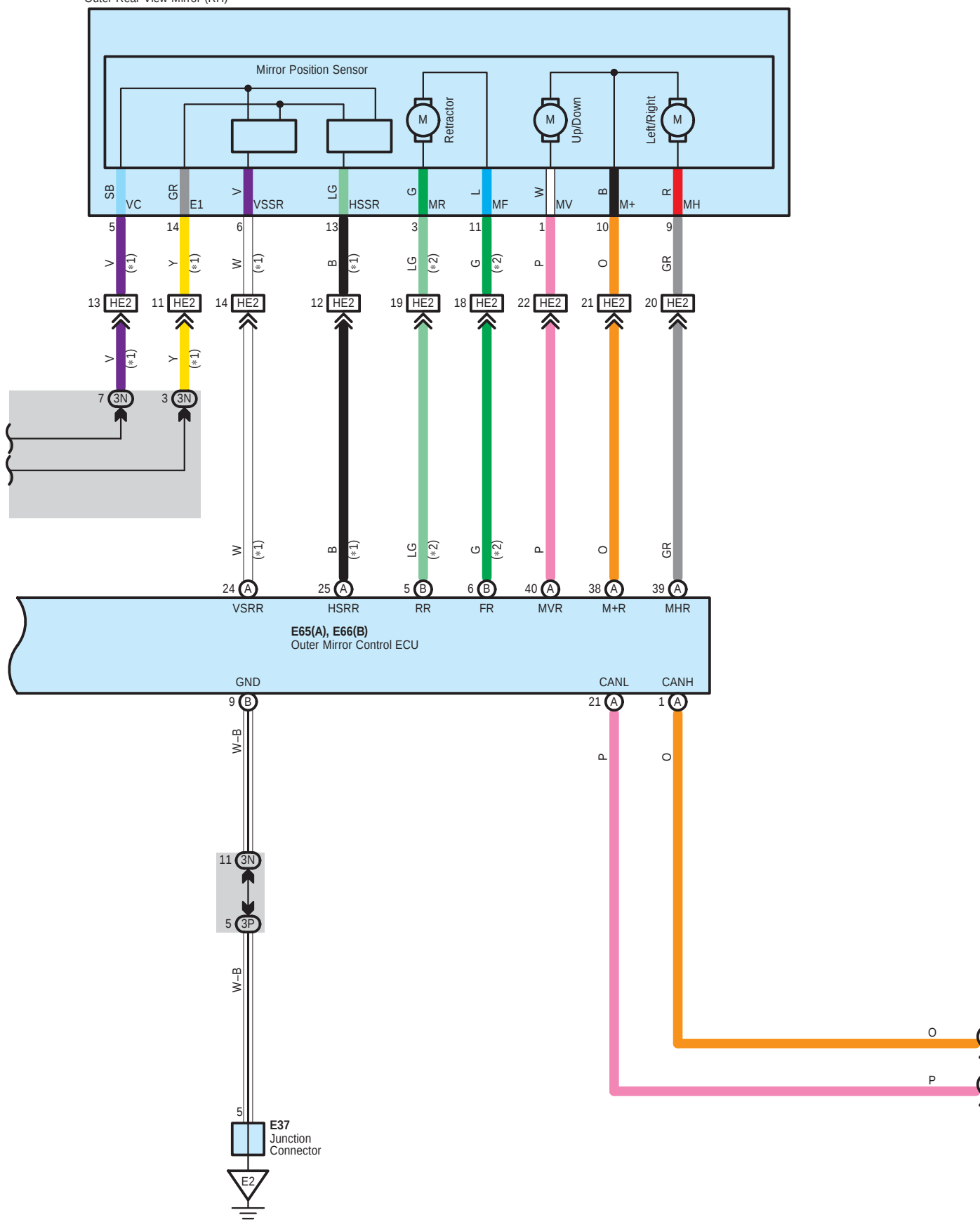
Code	See Page	Junction Block and Wire Harness (Connector Location)
1B	24	Engine Room Main Wire and Engine Room J/B (Engine Compartment Left)
1D		
1G		
4F	42	Instrument Panel Wire and J/B No.4 (Instrument Panel Right)
4L		
DD	30	Engine Room Main Wire and Instrument Panel J/B (Lower Finish Panel)
DI	31	Instrument Panel Wire and Instrument Panel J/B (Lower Finish Panel)

Remote Control Mirror

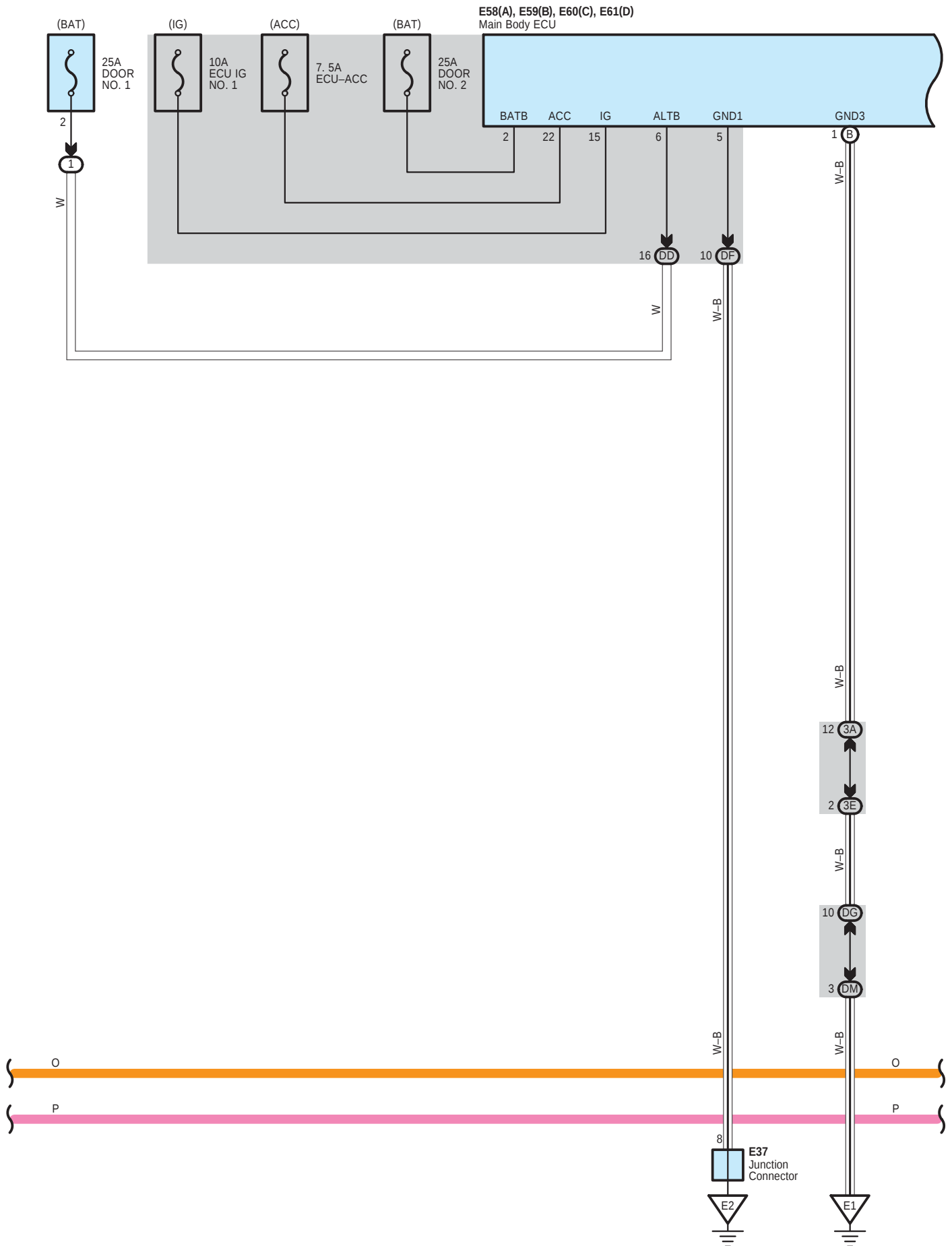


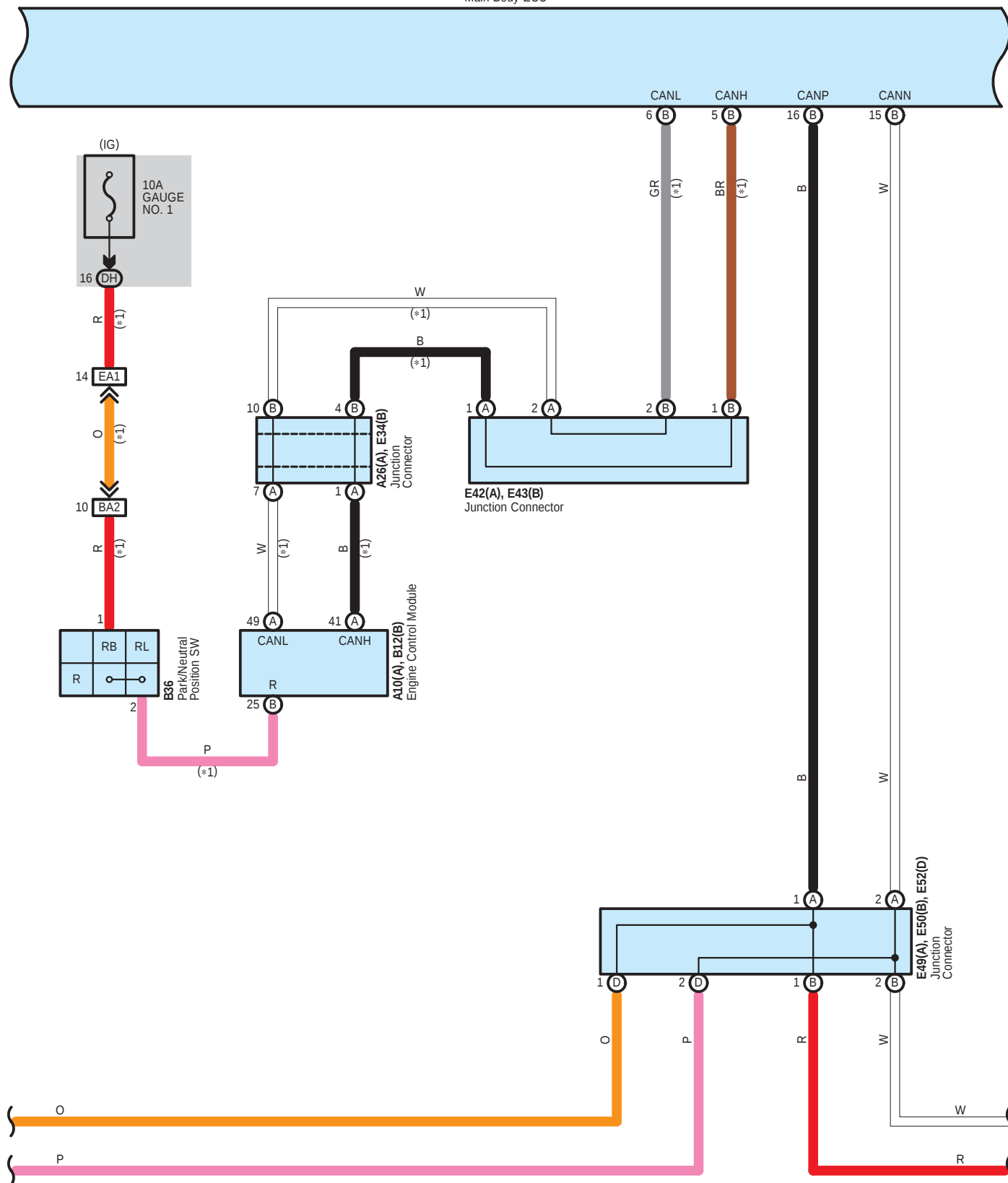
* 1 : w/ Seat Position Memory
 * 2 : w/ Retractor

H4 Outer Rear View Mirror (RH)



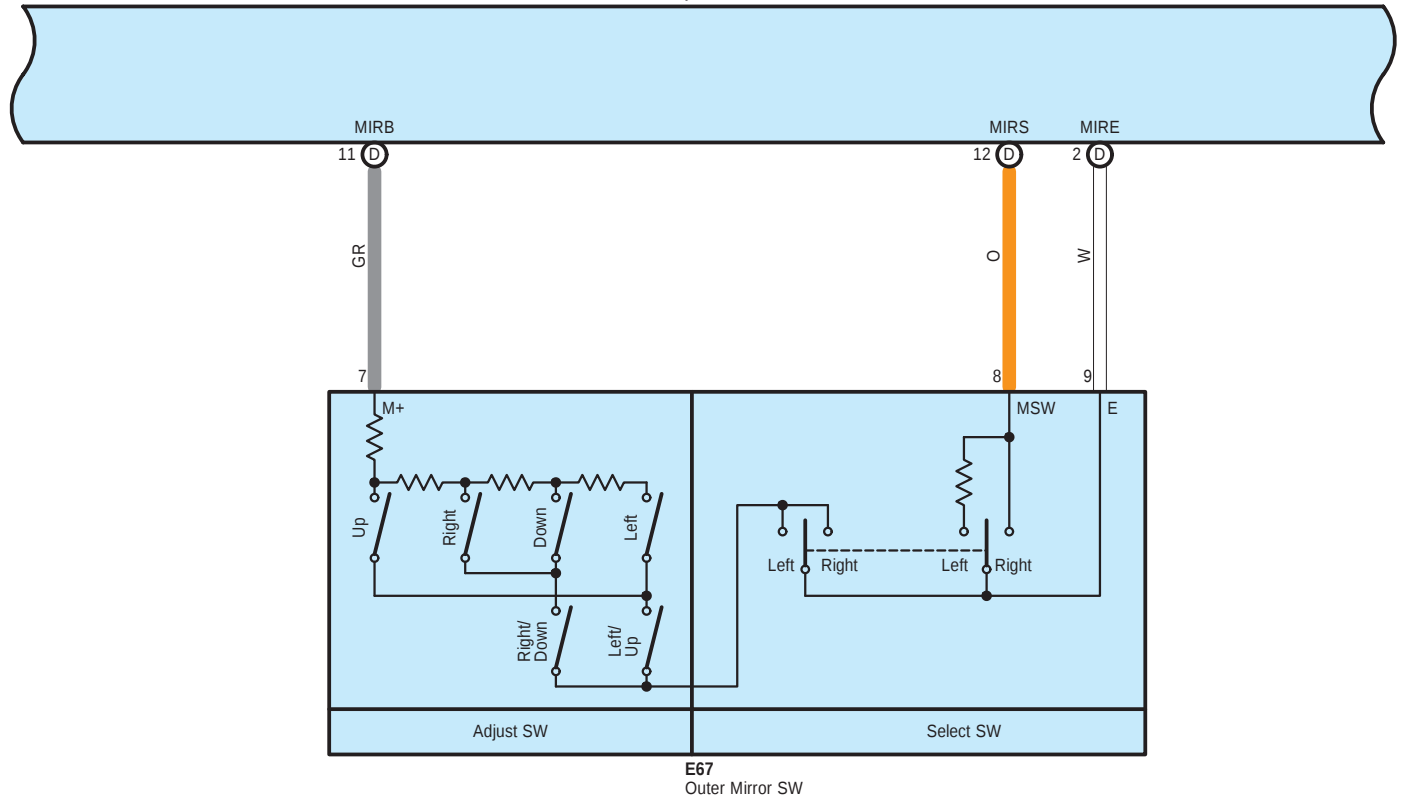
Remote Control Mirror





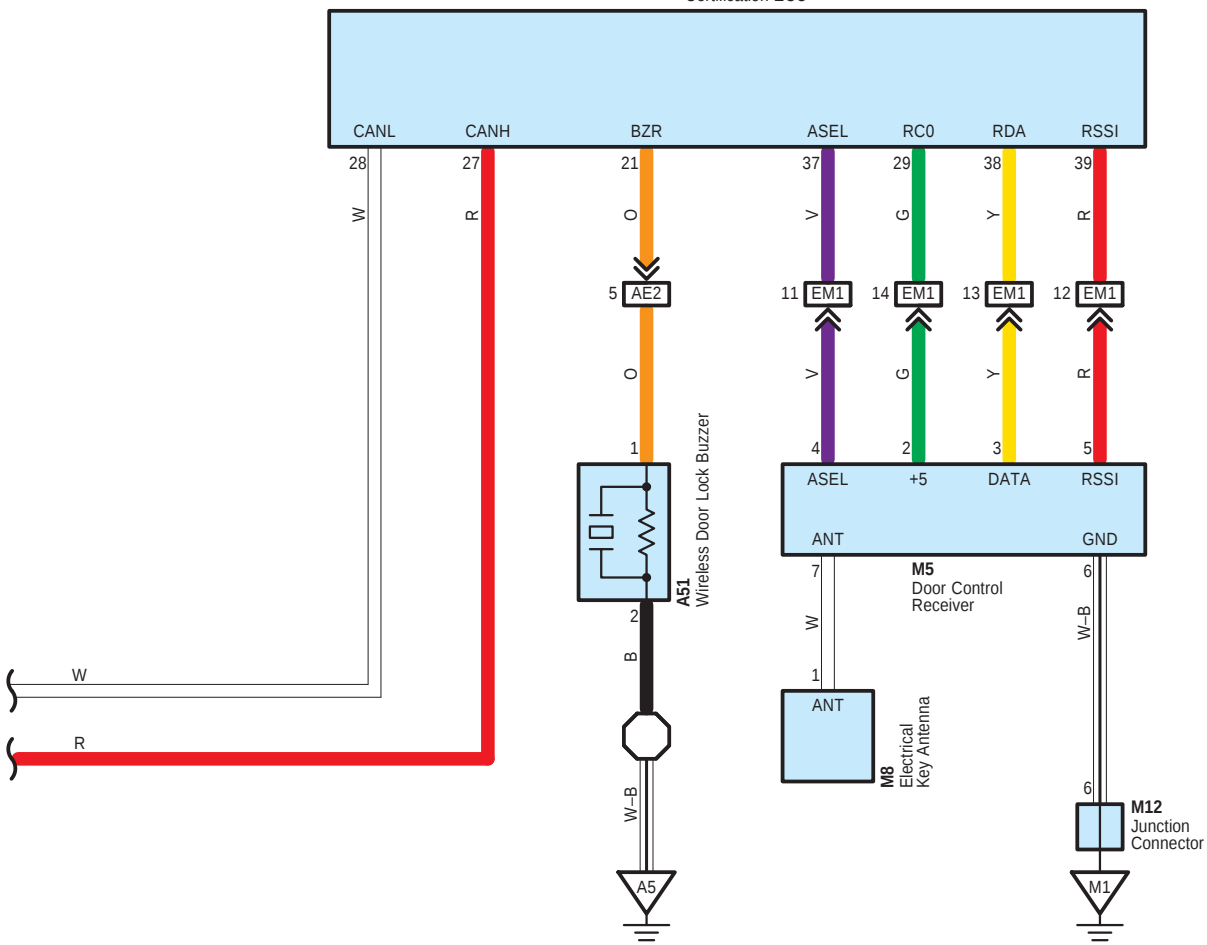
Remote Control Mirror

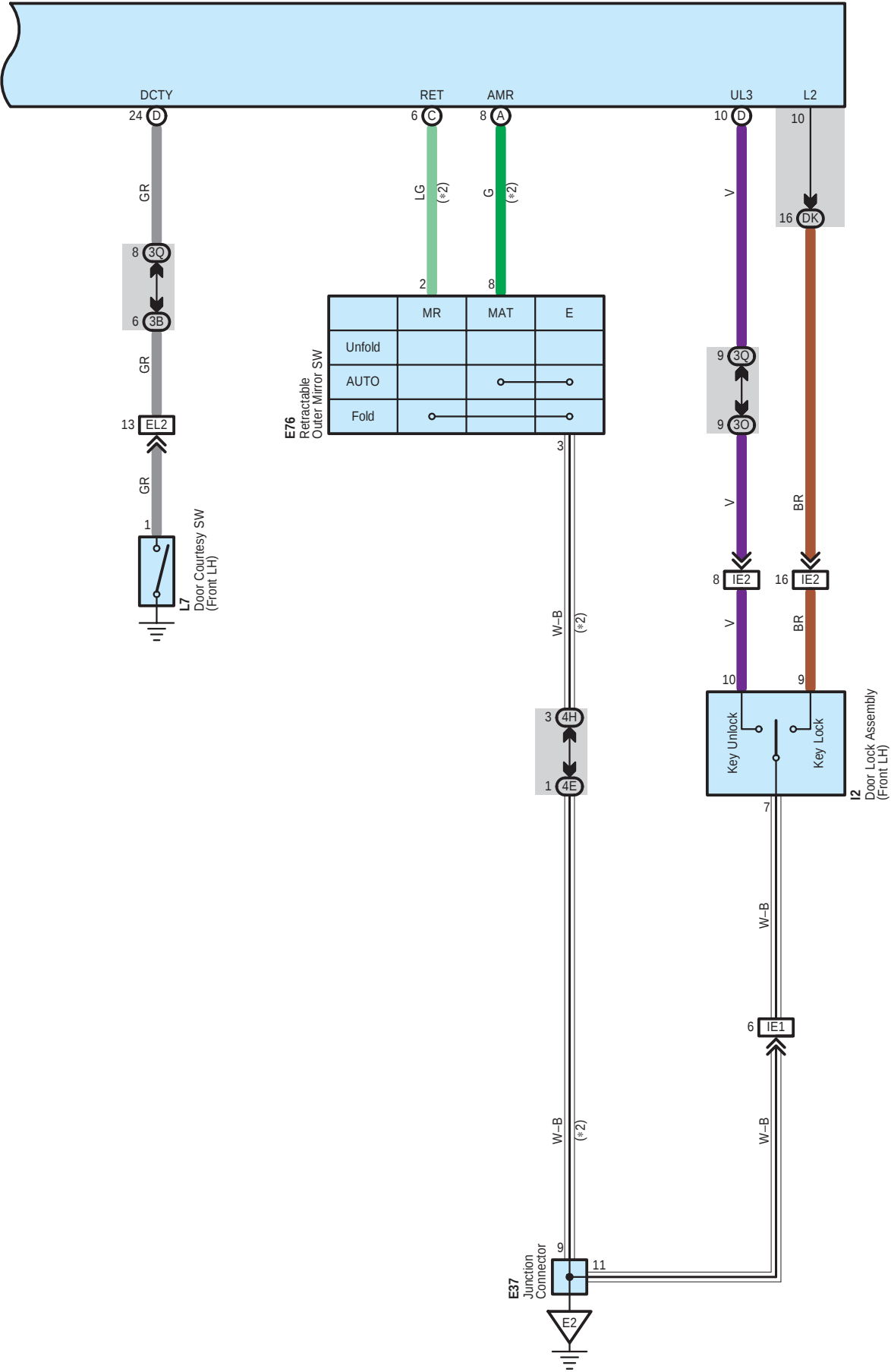
E58(A), E59(B), E60(C), E61(D)
Main Body ECU



E67
Outer Mirror SW

E13
Certification ECU





Remote Control Mirror

: Parts Location

Code			See Page			Code			See Page		
A10	A	54	E49	A	50, 59	E76		59			
A26	A	60	E50	B	50, 59	H4		63			
A51		55	E52	D	50, 59	I2		63			
B12	B	56	E58	A	59	I3		63			
B36		57	E59	B	59	I6		63			
E13		58	E60	C	59	L7		62			
E34	B	58	E61	D	59	M5		62			
E37		58	E65	A	59	M8		62			
E42	A	48, 59	E66	B	59	M12		62			
E43	B	48, 59	E67		59						

: Relay Blocks

Code	See Page	Relay Blocks (Relay Block Location)
1	22	Engine Room R/B (Engine Compartment Left)

: Junction Block and Wire Harness Connector

Code	See Page	Junction Block and Wire Harness (Connector Location)
3A	36	Instrument Panel Wire and J/B No.3 (Instrument Panel Left)
3B		
3E		
3F		
3N		
3O		
3P		
3Q		
4C	42	Instrument Panel Wire and J/B No.4 (Instrument Panel Right)
4E		
4H		
4M		
DD	30	Engine Room Main Wire and Instrument Panel J/B (Lower Finish Panel)
DF	30	Instrument Panel Wire and Instrument Panel J/B (Lower Finish Panel)
DG	31	
DH		
DK	30	
DM		

: Connector Joining Wire Harness and Wire Harness

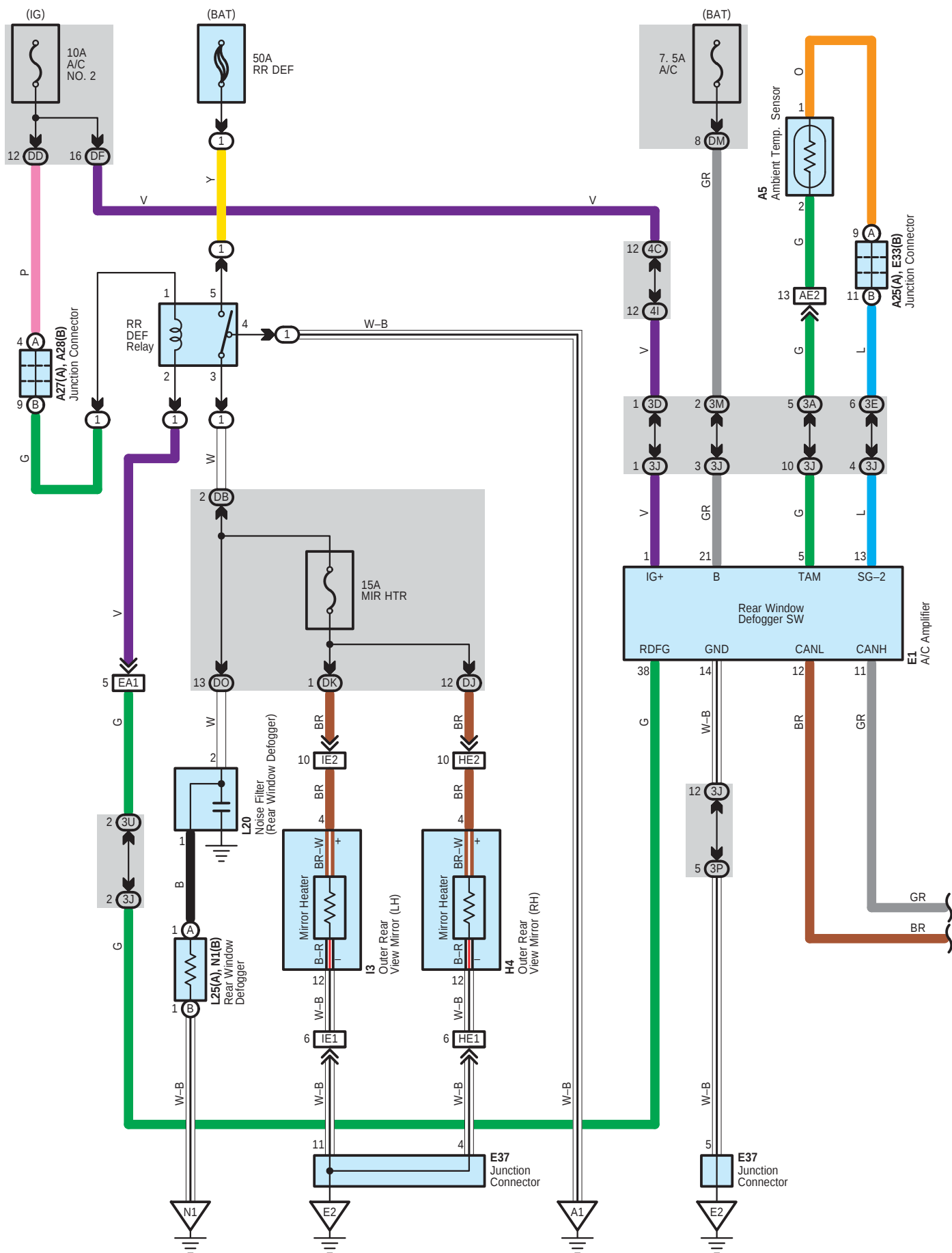
Code	See Page	Joining Wire Harness and Wire Harness (Connector Location)
AE2	69	Engine Room Main Wire and Instrument Panel Wire (Instrument Panel Left)
BA2	68	Engine Wire and Engine Room Main Wire (Inside of the Engine Room R/B and Engine Room J/B)
EA1	69	Instrument Panel Wire and Engine Room Main Wire (Left Kick Panel)
EL2	69	Instrument Panel Wire and Floor Wire (Left Kick Panel)
EM1	69	Instrument Panel Wire and Floor No.2 Wire (Right Kick Panel)
HE2	69	Front Door RH Wire and Instrument Panel Wire (Right Kick Panel)
IE1	69	Front Door LH Wire and Instrument Panel Wire (Left Kick Panel)
IE2		

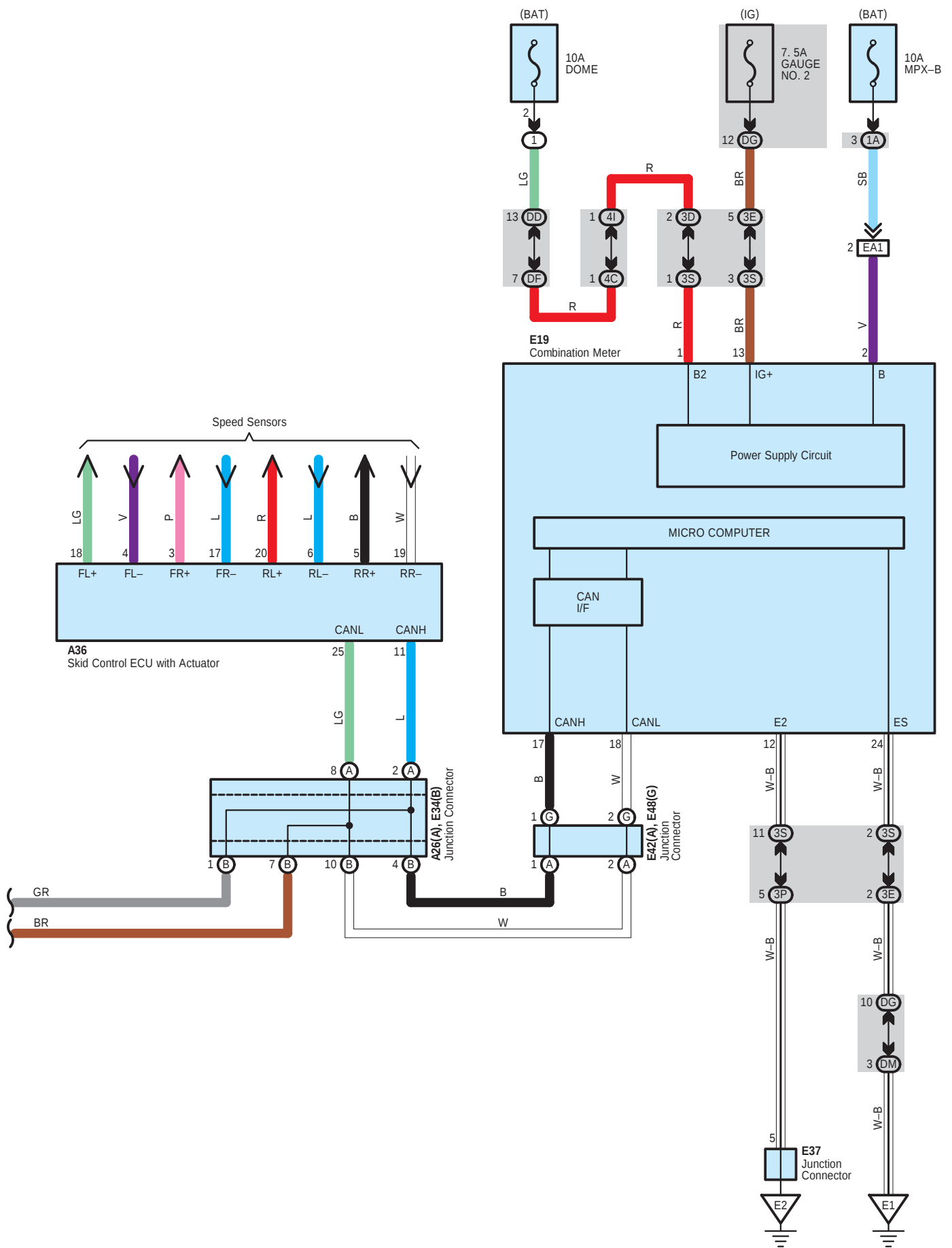


: **Ground Points**

Code	See Page	Ground Points Location
A5	69	Cowl Side Left
E1	69	Left Side of the Instrument Panel Reinforcement
E2	69	Instrument Panel Brace LH
M1	70	Roof Side Rear Inner Panel RH

Rear Window Defogger and Mirror Heater





Rear Window Defogger and Mirror Heater

: Parts Location

Code	See Page	Code	See Page	Code	See Page
A5	54	E1	58	E48	G 48, 59
A25	A 60	E19	58	H4	63
A26	A 60	E33	B 58	I3	63
A27	A 60	E34	B 58	L20	62
A28	B 60	E37	58	L25	A 62
A36	55	E42	A 48, 59	N1	B 64

: Relay Blocks

Code	See Page	Relay Blocks (Relay Block Location)
1	22	Engine Room R/B (Engine Compartment Left)

: Junction Block and Wire Harness Connector

Code	See Page	Junction Block and Wire Harness (Connector Location)
1A	24	Engine Room Main Wire and Engine Room J/B (Engine Compartment Left)
3A	36	Instrument Panel Wire and J/B No.3 (Instrument Panel Left)
3D		
3E		
3J		
3M		
3P		
3S		
3U		
4C	42	Instrument Panel Wire and J/B No.4 (Instrument Panel Right)
4I		
DB	30	Engine Room Main Wire and Instrument Panel J/B (Lower Finish Panel)
DD		
DF	30	Instrument Panel Wire and Instrument Panel J/B (Lower Finish Panel)
DG	31	
DJ	30	
DK		
DM		
DO	30	

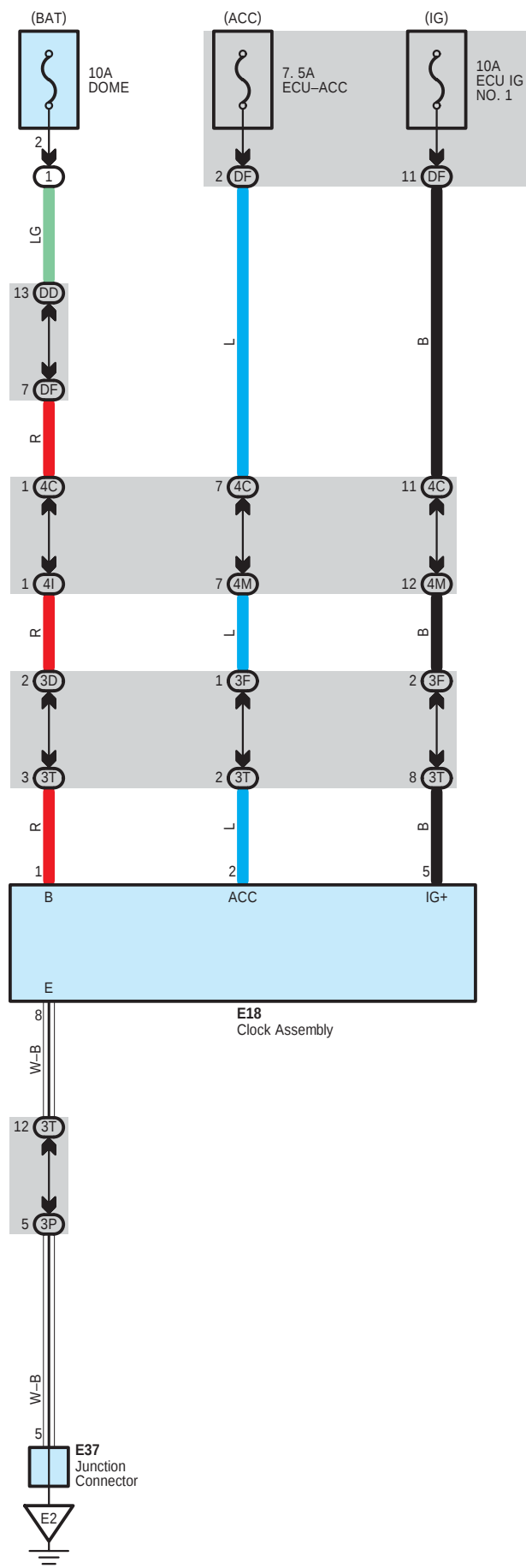
: Connector Joining Wire Harness and Wire Harness

Code	See Page	Joining Wire Harness and Wire Harness (Connector Location)
AE2	69	Engine Room Main Wire and Instrument Panel Wire (Instrument Panel Left)
EA1	69	Instrument Panel Wire and Engine Room Main Wire (Left Kick Panel)
HE1	69	Front Door RH Wire and Instrument Panel Wire (Right Kick Panel)
HE2		
IE1	69	Front Door LH Wire and Instrument Panel Wire (Left Kick Panel)
IE2		

: Ground Points

Code	See Page	Ground Points Location
A1	68	Front Left Fender Apron
E1	69	Left Side of the Instrument Panel Reinforcement
E2	69	Instrument Panel Brace LH
N1	70	Rear Pillar RH

Clock with Navigation System



 : Parts Location

Code	See Page	Code	See Page	Code	See Page
E18	58	E37	58		

 : Relay Blocks

Code	See Page	Relay Blocks (Relay Block Location)
1	22	Engine Room R/B (Engine Compartment Left)

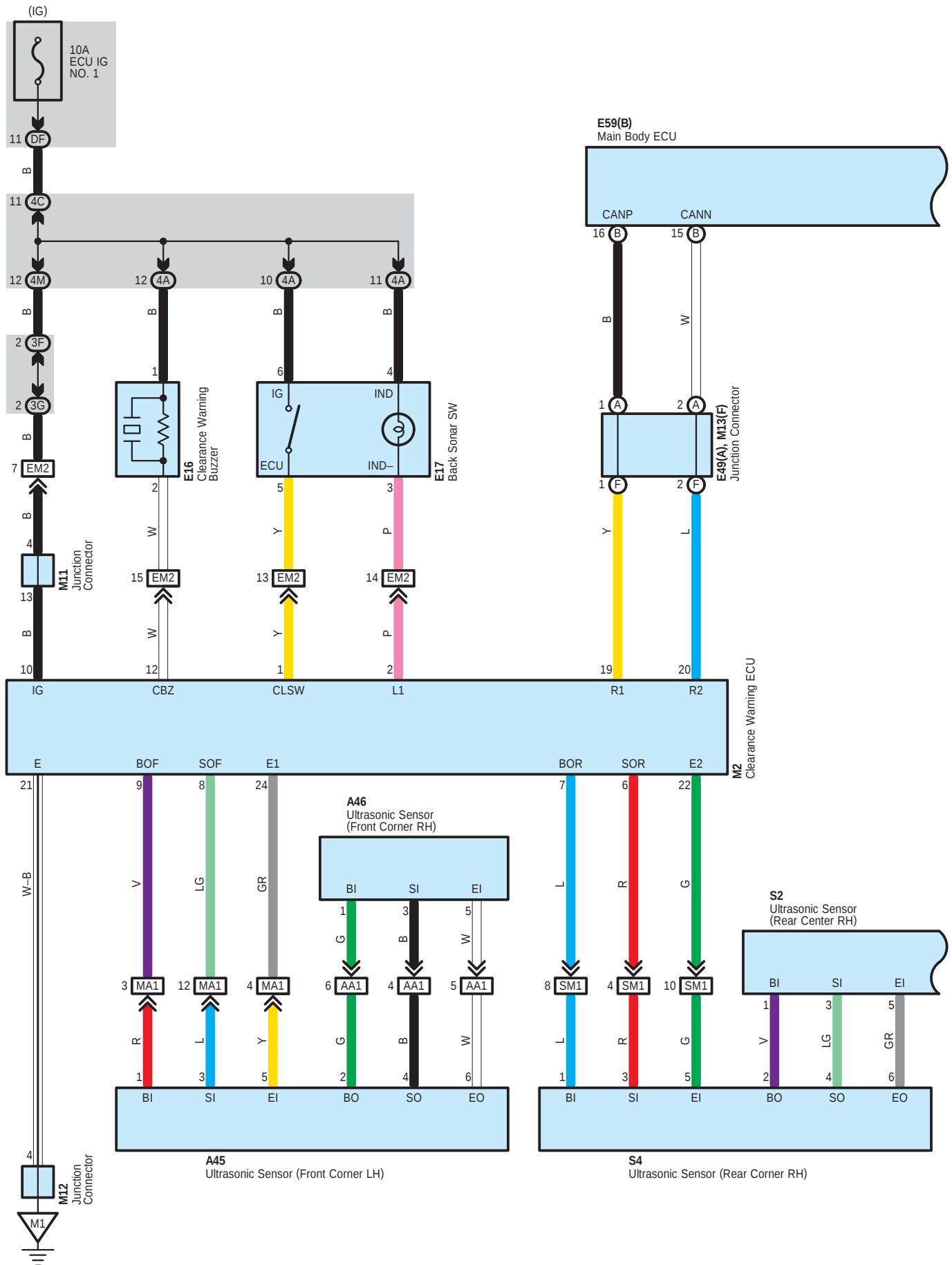
 : Junction Block and Wire Harness Connector

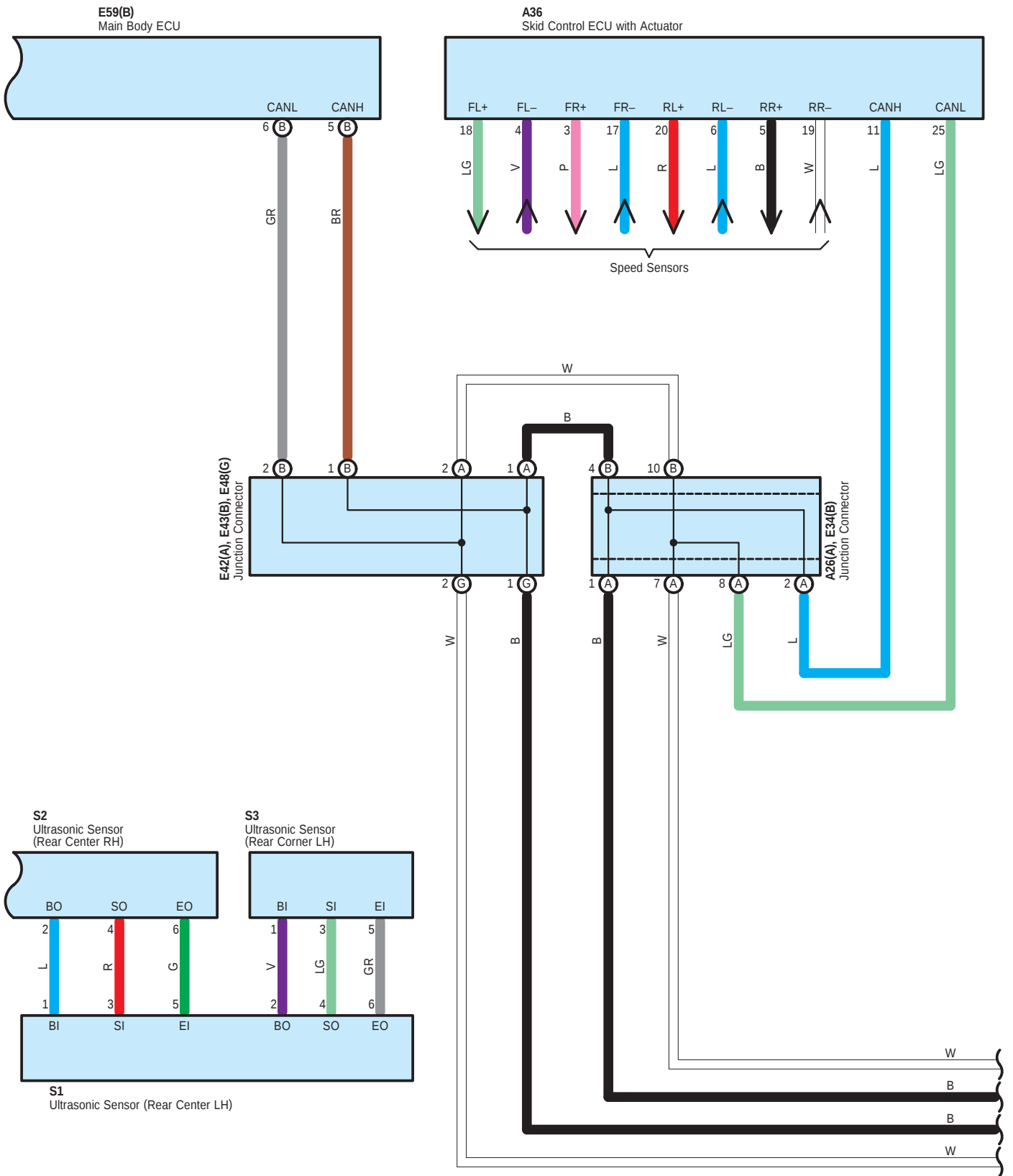
Code	See Page	Junction Block and Wire Harness (Connector Location)
3D	36	Instrument Panel Wire and J/B No.3 (Instrument Panel Left)
3F		
3P		
3T		
4C	42	Instrument Panel Wire and J/B No.4 (Instrument Panel Right)
4I		
4M		
DD	30	Engine Room Main Wire and Instrument Panel J/B (Lower Finish Panel)
DF	30	Instrument Panel Wire and Instrument Panel J/B (Lower Finish Panel)

 : Ground Points

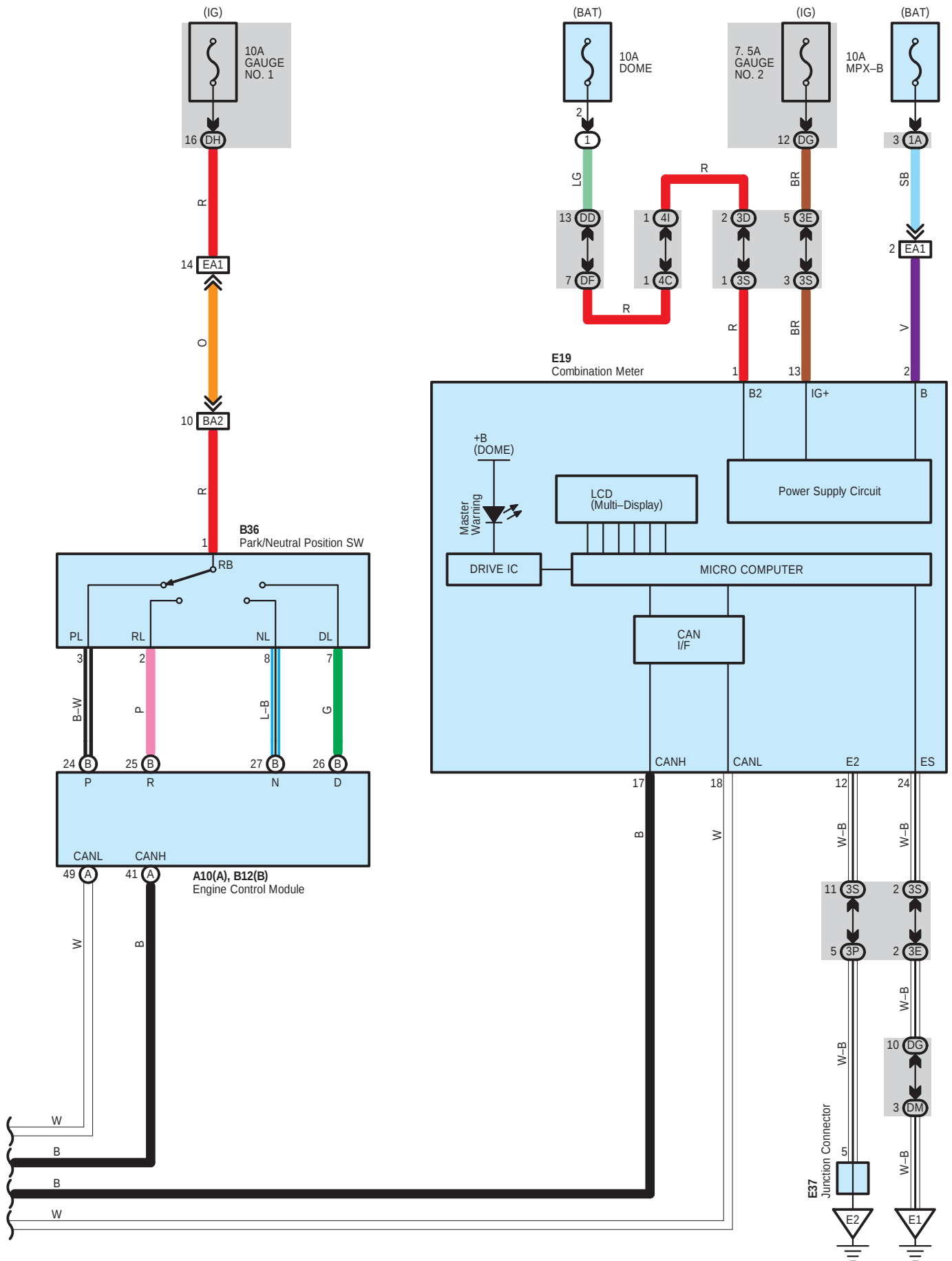
Code	See Page	Ground Points Location
E2	69	Instrument Panel Brace LH

Parking Assist (Intuitive Parking Assist)





Parking Assist (Intuitive Parking Assist)



System Outline

The back and clearance sonar uses an ultrasonic sensor equipped with an indicator and beeping alarm to detect obstacles at the corners in front of the vehicle and obstacles at the rear of the vehicle, and provides information to the driver regarding the distance between the sensors and the obstacles and the position of the obstacles.

○ : Parts Location

Code		See Page	Code		See Page	Code		See Page
A10	A	54	E19		58	M11		62
A26	A	60	E34	B	58	M12		62
A36		55	E37		58	M13	F	50, 61
A45		55	E42	A	48, 59	S1		65
A46		55	E43	B	48, 59	S2		65
B12	B	56	E48	G	48, 59	S3		65
B36		57	E49	A	50, 59	S4		65
E16		58	E59	B	59			
E17		58	M2		62			

○ : Relay Blocks

Code	See Page	Relay Blocks (Relay Block Location)
1	22	Engine Room R/B (Engine Compartment Left)

○ : Junction Block and Wire Harness Connector

Code	See Page	Junction Block and Wire Harness (Connector Location)
1A	24	Engine Room Main Wire and Engine Room J/B (Engine Compartment Left)
3D	36	Instrument Panel Wire and J/B No.3 (Instrument Panel Left)
3E		
3F		
3G		
3P		
3S		
4A	42	Instrument Panel Wire and J/B No.4 (Instrument Panel Right)
4C		
4I		
4M		
DD	30	Engine Room Main Wire and Instrument Panel J/B (Lower Finish Panel)
DF	30	Instrument Panel Wire and Instrument Panel J/B (Lower Finish Panel)
DG	31	
DH		
DM	30	

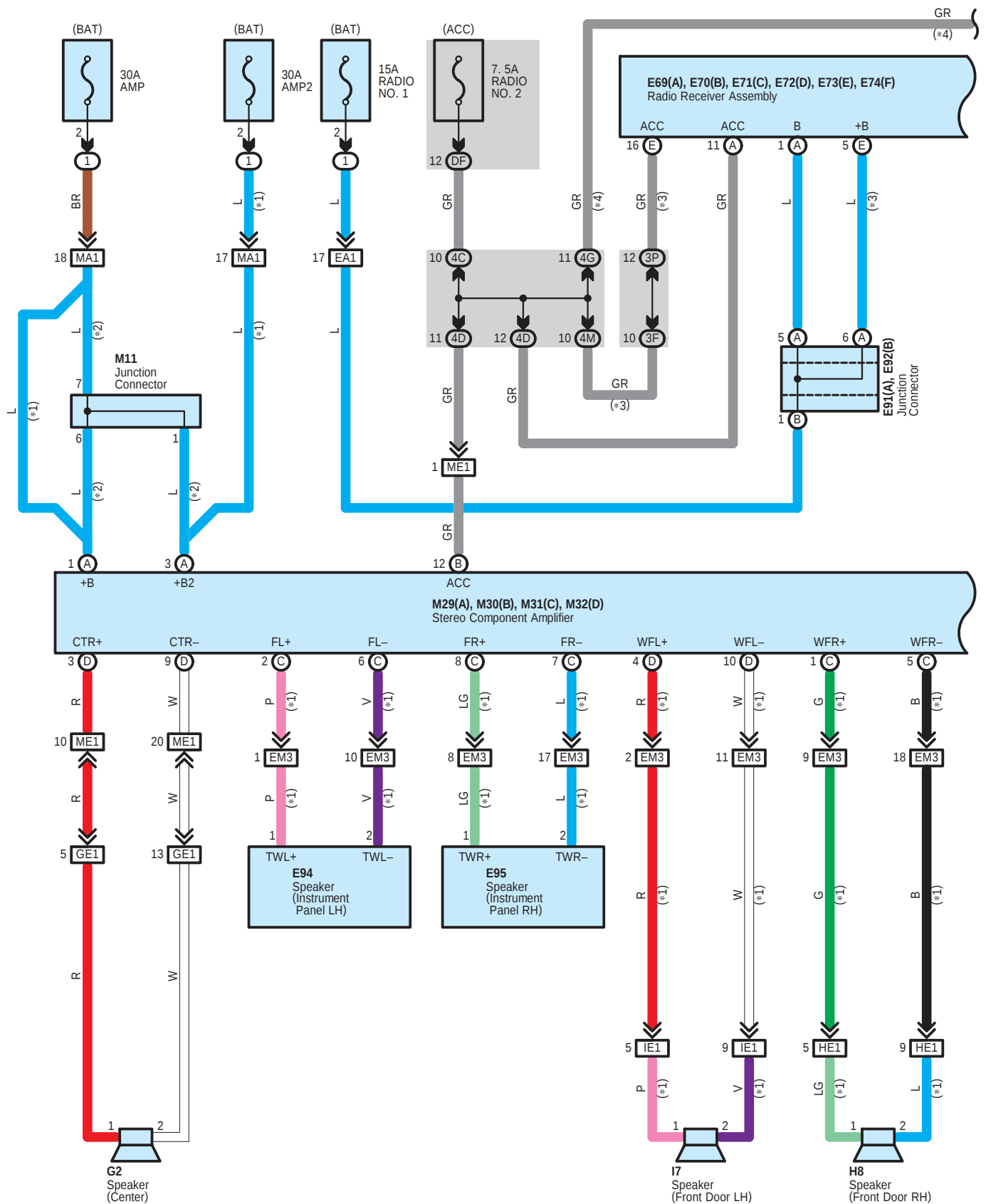
□ : Connector Joining Wire Harness and Wire Harness

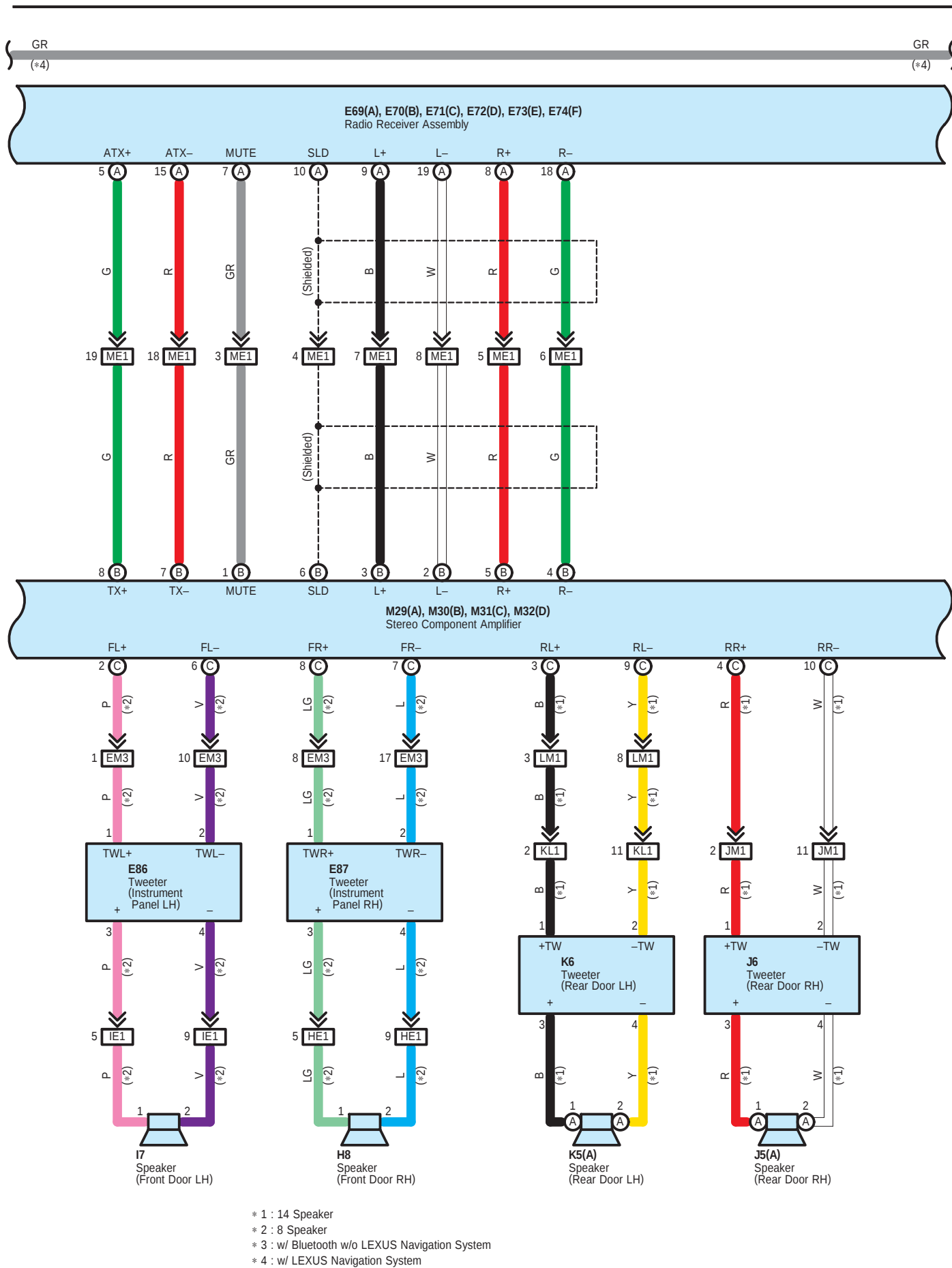
Code	See Page	Joining Wire Harness and Wire Harness (Connector Location)
AA1	69	Engine Room Main Wire and Engine Room Main Wire (Cowl Side Right)
BA2	68	Engine Wire and Engine Room Main Wire (Inside of the Engine Room R/B and Engine Room J/B)
EA1	69	Instrument Panel Wire and Engine Room Main Wire (Left Kick Panel)
EM2	69	Instrument Panel Wire and Floor No.2 Wire (Right Kick Panel)
MA1	69	Floor No.2 Wire and Engine Room Main Wire (Cowl Side Right)
SM1	70	Luggage Room No.2 Wire and Floor No.2 Wire (Right Side of the Lower Back Panel)

▽ : Ground Points

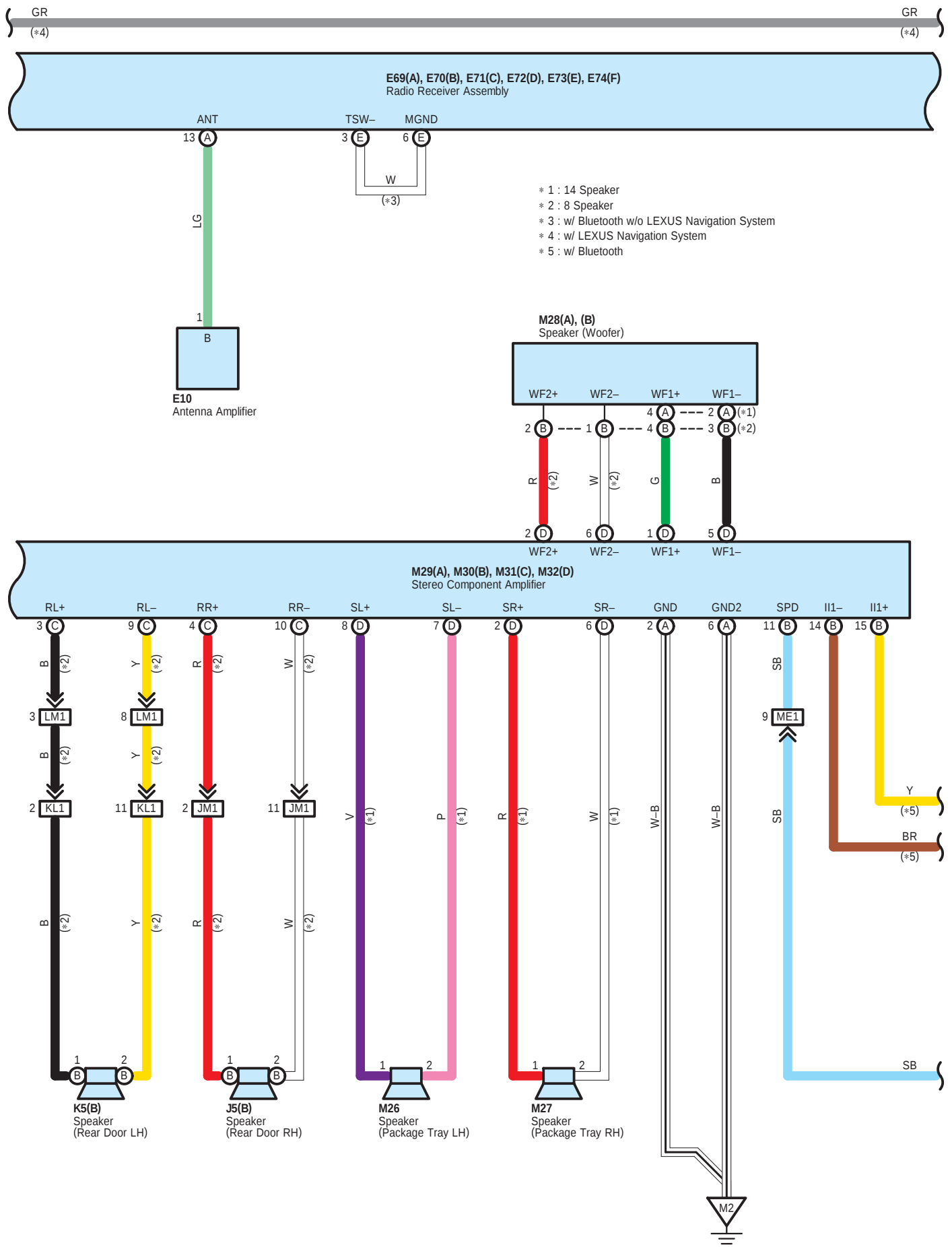
Code	See Page	Ground Points Location
E1	69	Left Side of the Instrument Panel Reinforcement
E2	69	Instrument Panel Brace LH
M1	70	Roof Side Rear Inner Panel RH

Navigation, Parking Assist (Rear View Monitor) and Audio System

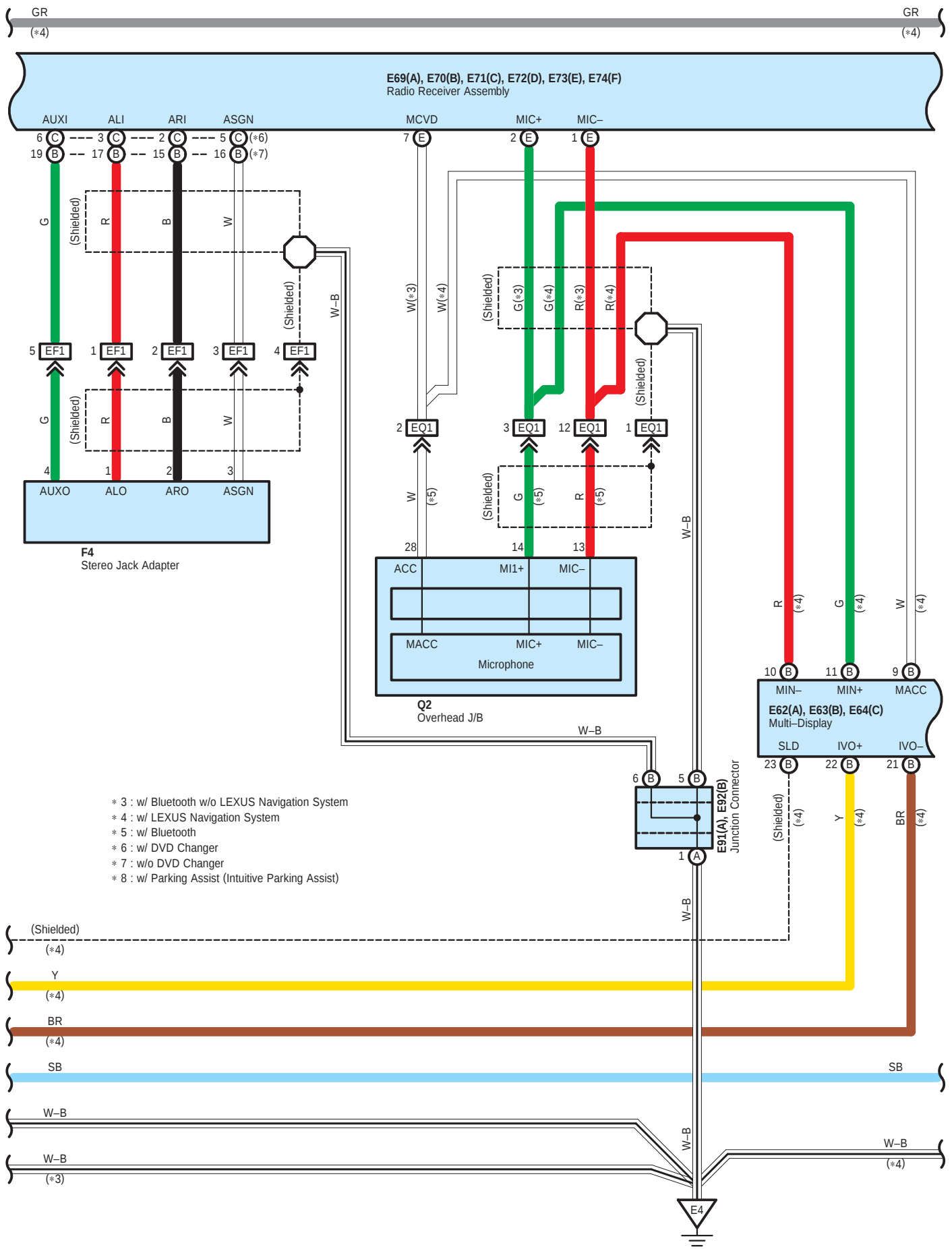




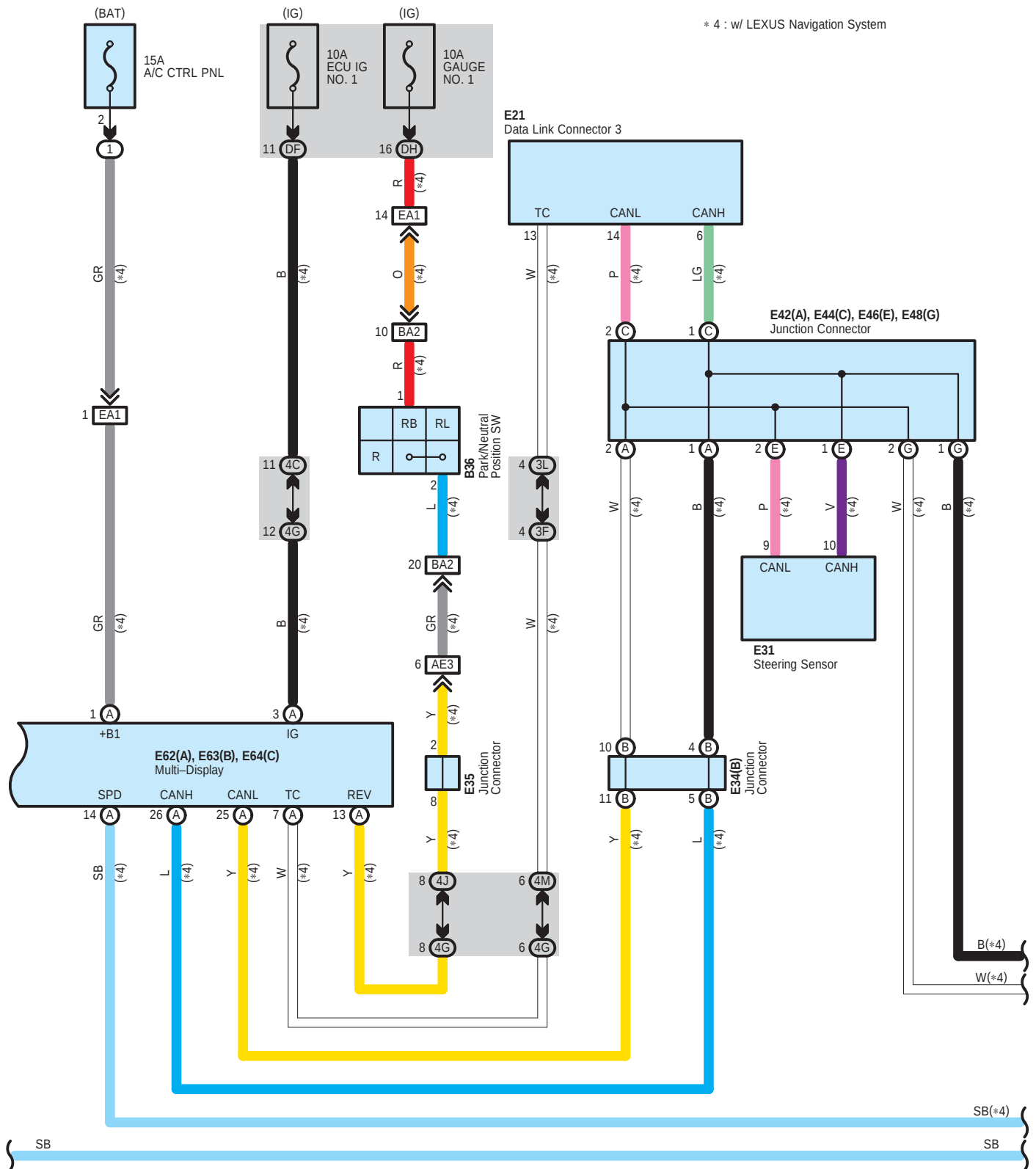
Navigation, Parking Assist (Rear View Monitor) and Audio System

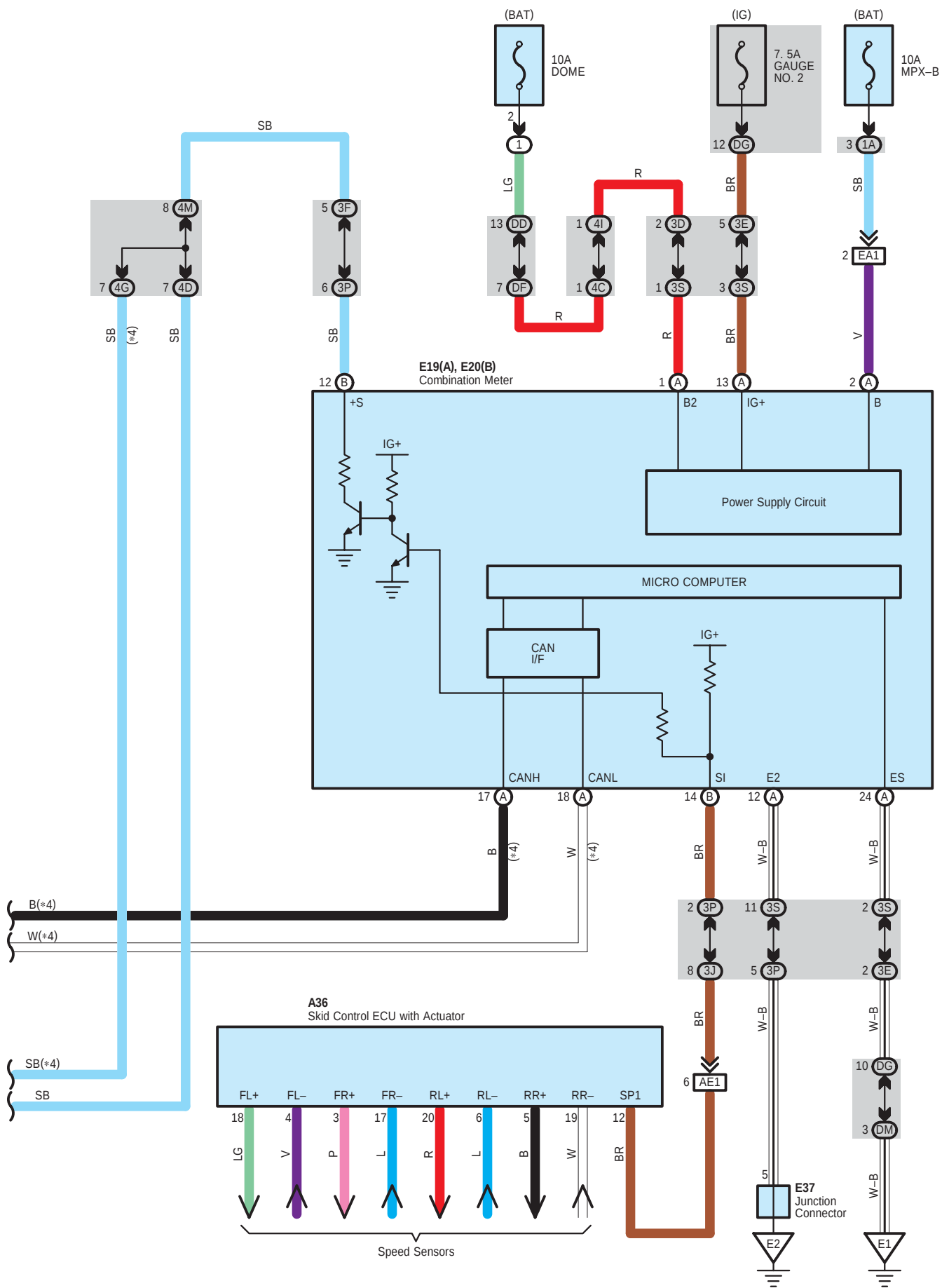


Navigation, Parking Assist (Rear View Monitor) and Audio System



Navigation, Parking Assist (Rear View Monitor) and Audio System





Navigation, Parking Assist (Rear View Monitor) and Audio System

: Parts Location

Code	See Page	Code	See Page	Code	See Page
A32	60	E64	C 59	J5	B 63
A36	55	E69	A 59	J6	63
B36	57	E70	B 59	K5	A 63
E10	58	E71	C 59		B 63
E19	A 58	E72	D 59	K6	63
E20	B 58	E73	E 59	M11	62
E21	58	E74	F 59	M26	62
E30	A 58	E86	59	M27	62
E31	58	E87	59	M28	A 62
E34	B 58	E91	A 59		B 62
E35	58	E92	B 59	M29	A 62
E37	58	E94	59	M30	B 62
E42	A 48, 59	E95	59	M31	C 62
E44	C 48, 59	F4	61	M32	D 62
E46	E 48, 59	G2	61	Q2	64
E48	G 48, 59	H8	63	R15	65
E62	A 59	I7	63	d1	B 61
E63	B 59	J5	A 63		

: Relay Blocks

Code	See Page	Relay Blocks (Relay Block Location)
1	22	Engine Room R/B (Engine Compartment Left)

: Junction Block and Wire Harness Connector

Code	See Page	Junction Block and Wire Harness (Connector Location)
1A	24	Engine Room Main Wire and Engine Room J/B (Engine Compartment Left)
3D	36	Instrument Panel Wire and J/B No.3 (Instrument Panel Left)
3E		
3F		
3J		
3L		
3P		
3S		
4C	42	Instrument Panel Wire and J/B No.4 (Instrument Panel Right)
4D		
4E		
4G		
4I		
4J		
4L		
4M		
DC	30	Engine Room Main Wire and Instrument Panel J/B (Lower Finish Panel)
DD		
DF	30	Instrument Panel Wire and Instrument Panel J/B (Lower Finish Panel)
DG	31	
DH		
DM	30	

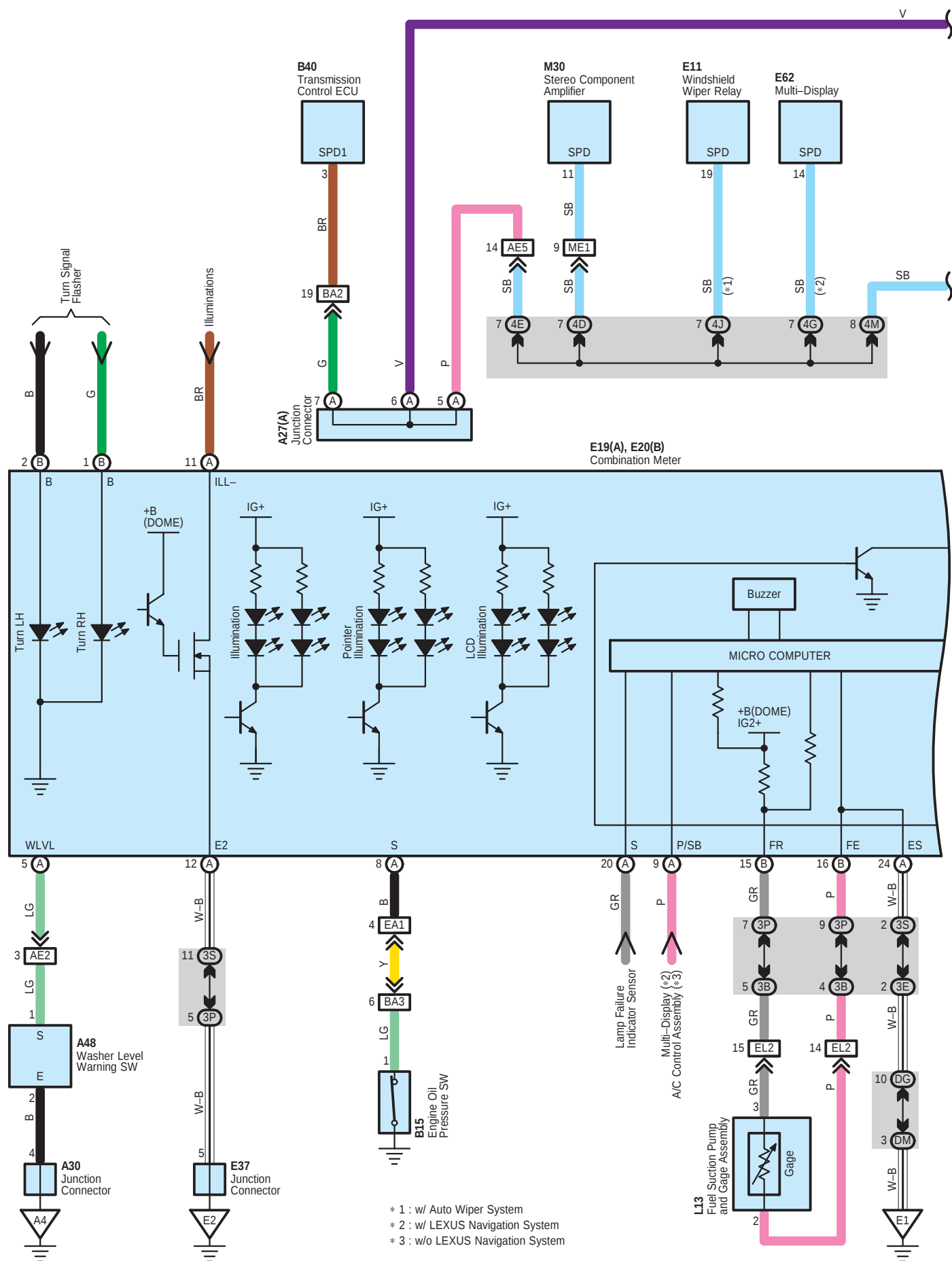
 : Connector Joining Wire Harness and Wire Harness

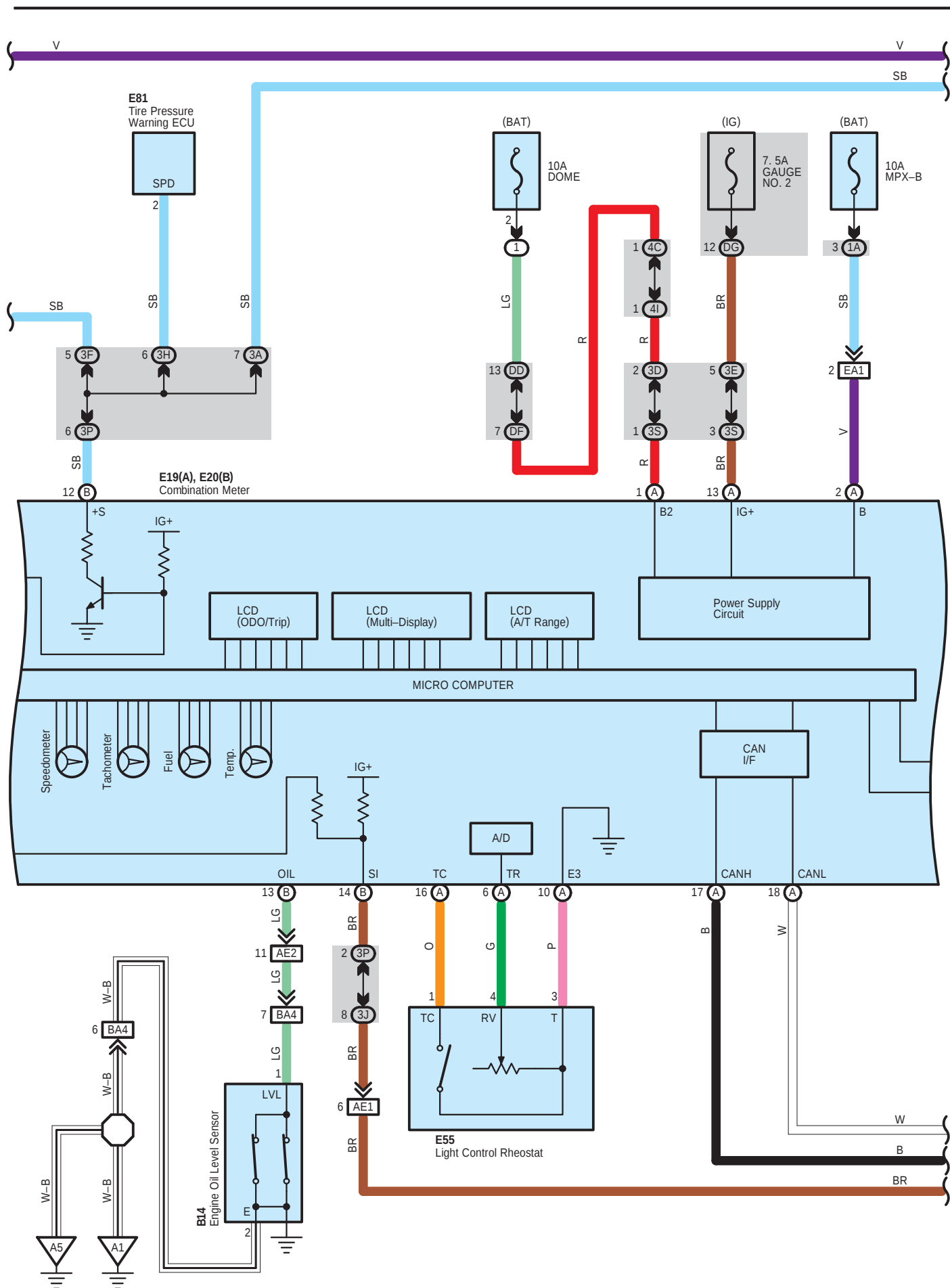
Code	See Page	Joining Wire Harness and Wire Harness (Connector Location)
AE1	69	Engine Room Main Wire and Instrument Panel Wire (Instrument Panel Right)
AE3		
BA2	68	Engine Wire and Engine Room Main Wire (Inside of the Engine Room R/B and Engine Room J/B)
EA1	69	Instrument Panel Wire and Engine Room Main Wire (Left Kick Panel)
EF1	69	Instrument Panel Wire and Instrument Panel No.2 Wire (Under the Console Box)
EM3	69	Instrument Panel Wire and Floor No.2 Wire (Right Kick Panel)
EQ1	69	Instrument Panel Wire and Roof Wire (Front Pillar LH)
GE1	69	Instrument Panel No.3 Wire and Instrument Panel Wire (Instrument Panel Center)
HE1	69	Front Door RH Wire and Instrument Panel Wire (Right Kick Panel)
IE1	69	Front Door LH Wire and Instrument Panel Wire (Left Kick Panel)
JM1	70	Rear Door No.1 Wire and Floor No.2 Wire (Center Pillar RH)
KL1	70	Rear Door No.2 Wire and Floor Wire (Center Pillar LH)
LM1	70	Floor Wire and Floor No.2 Wire (Under the Rear Seat)
LR1	70	Floor Wire and Luggage Room Wire (Roof Side Rear Inner Panel LH)
MA1	69	Floor No.2 Wire and Engine Room Main Wire (Cowl Side Right)
ME1	69	Floor No.2 Wire and Instrument Panel Wire (Instrument Panel Right)

 : Ground Points

Code	See Page	Ground Points Location
E1	69	Left Side of the Instrument Panel Reinforcement
E2	69	Instrument Panel Brace LH
E4	69	Instrument Panel Brace RH
M2	70	Roof Side Rear Inner Panel RH

Combination Meter

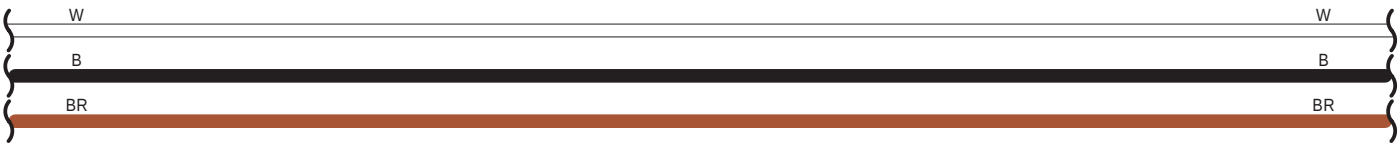
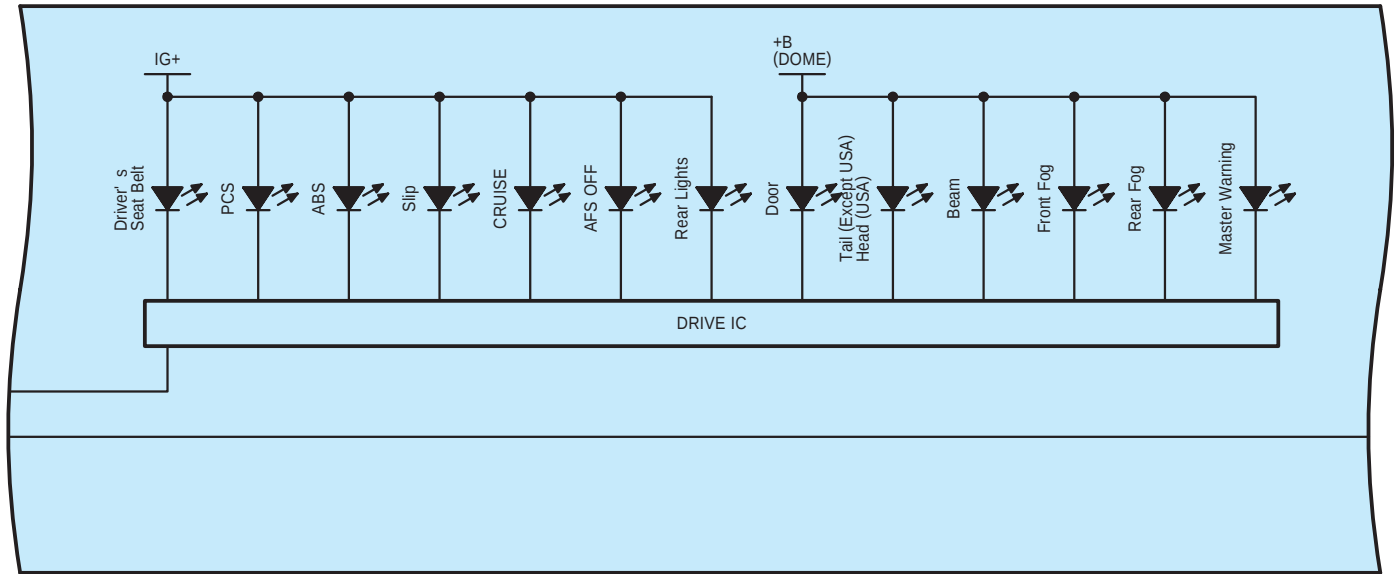


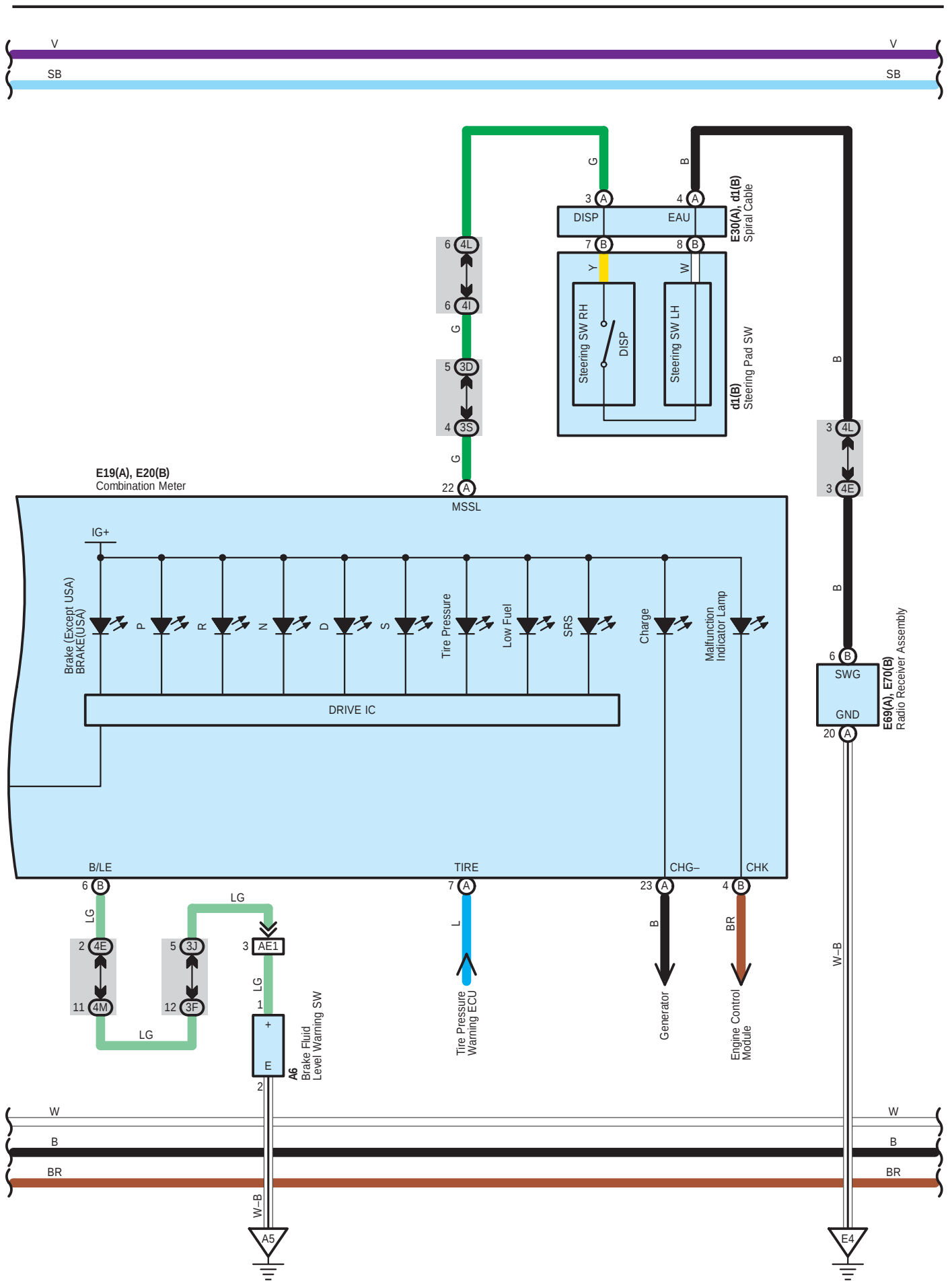


Combination Meter

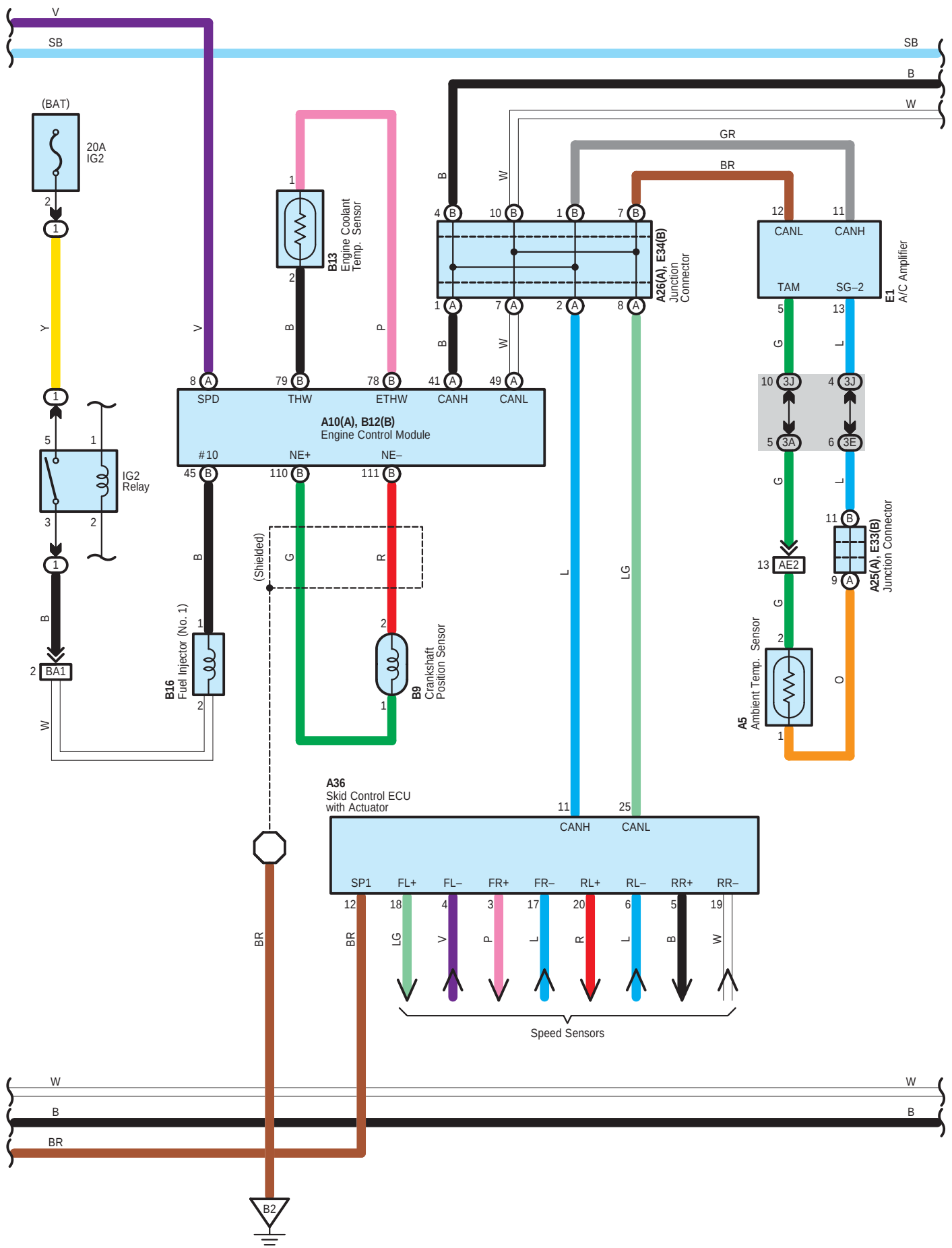


E19(A), E20(B)
Combination Meter





Combination Meter





Combination Meter

: Parts Location

Code	See Page	Code	See Page	Code	See Page
A5	54	B40	57	E60	C 59
A6	54	E1	58	E61	D 59
A10	A 54	E11	58	E62	59
A11	54	E13	A 58	E69	A 59
A25	A 60	E14	B 58	E70	B 59
A26	A 60	E19	A 58	E81	59
A27	A 60	E20	B 58	L7	62
A29	54	E30	A 58	L8	62
A30	54	E33	B 58	L13	62
A32	60	E34	B 58	L14	A 62
A36	55	E37	58	L15	B 62
A48	55	E42	A 48, 59	M6	62
B9	56	E43	B 48, 59	M7	62
B12	B 56	E48	G 48, 59	M11	62
B13	56	E49	A 50, 59	M30	62
B14	56	E50	B 50, 59	R1	65
B15	56	E55	59	R6	65
B16	56	E59	B 59	d1	B 61

: Relay Blocks

Code	See Page	Relay Blocks (Relay Block Location)
1	22	Engine Room R/B (Engine Compartment Left)

: Junction Block and Wire Harness Connector

Code	See Page	Junction Block and Wire Harness (Connector Location)
1A	24	Engine Room Main Wire and Engine Room J/B (Engine Compartment Left)
3A	36	Instrument Panel Wire and J/B No.3 (Instrument Panel Left)
3B		
3D		
3E		
3F		
3G		
3H		
3I		
3J		
3P		
3Q		
3S		
4C	42	Instrument Panel Wire and J/B No.4 (Instrument Panel Right)
4D		
4E		
4G		
4I		
4J		
4L		
4M		
DC	30	Engine Room Main Wire and Instrument Panel J/B (Lower Finish Panel)
DD		
DF	30	Instrument Panel Wire and Instrument Panel J/B (Lower Finish Panel)
DG	31	
DM	30	
DO	30	Floor Wire and Instrument Panel J/B (Lower Finish Panel)

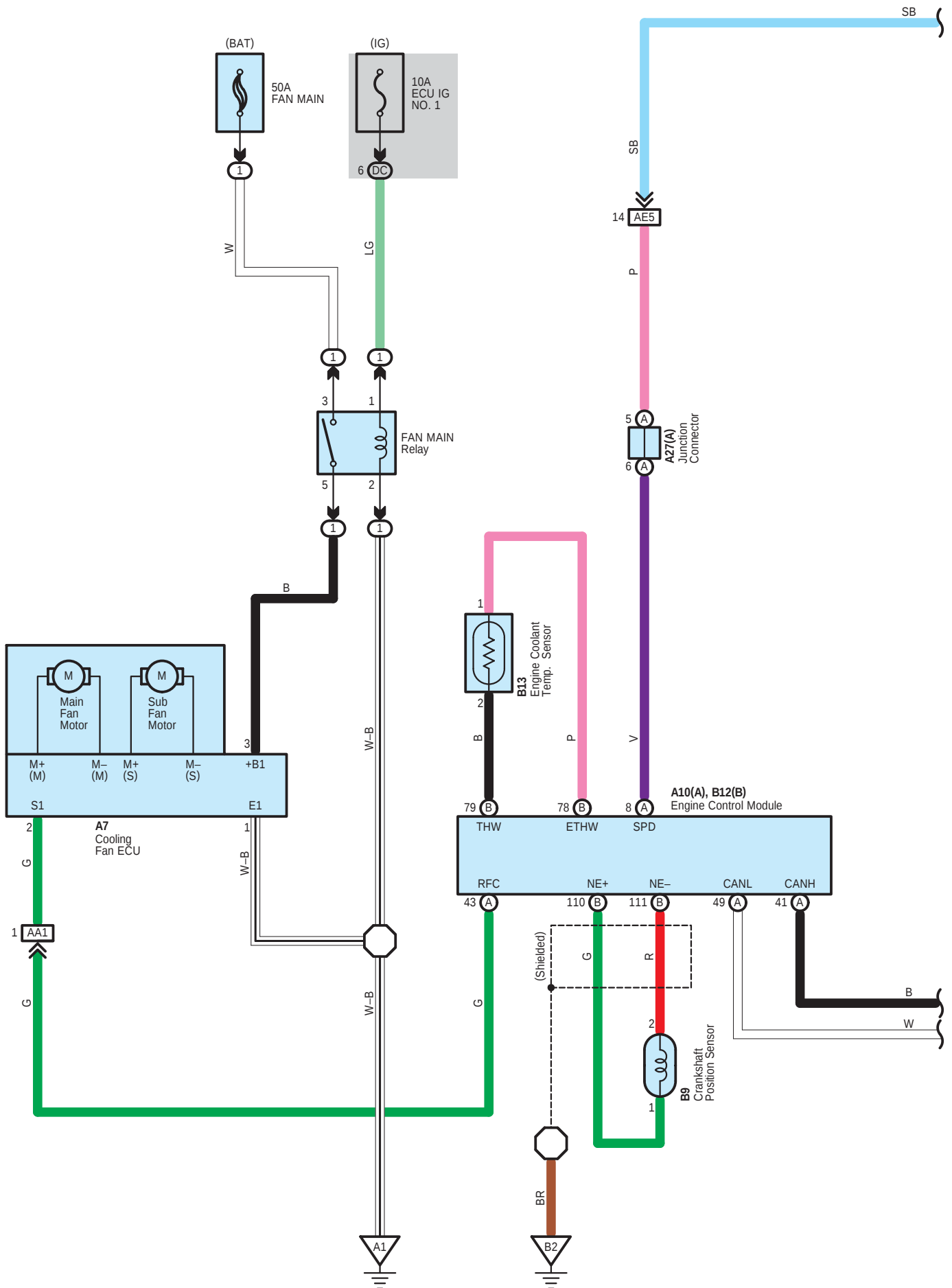
 : Connector Joining Wire Harness and Wire Harness

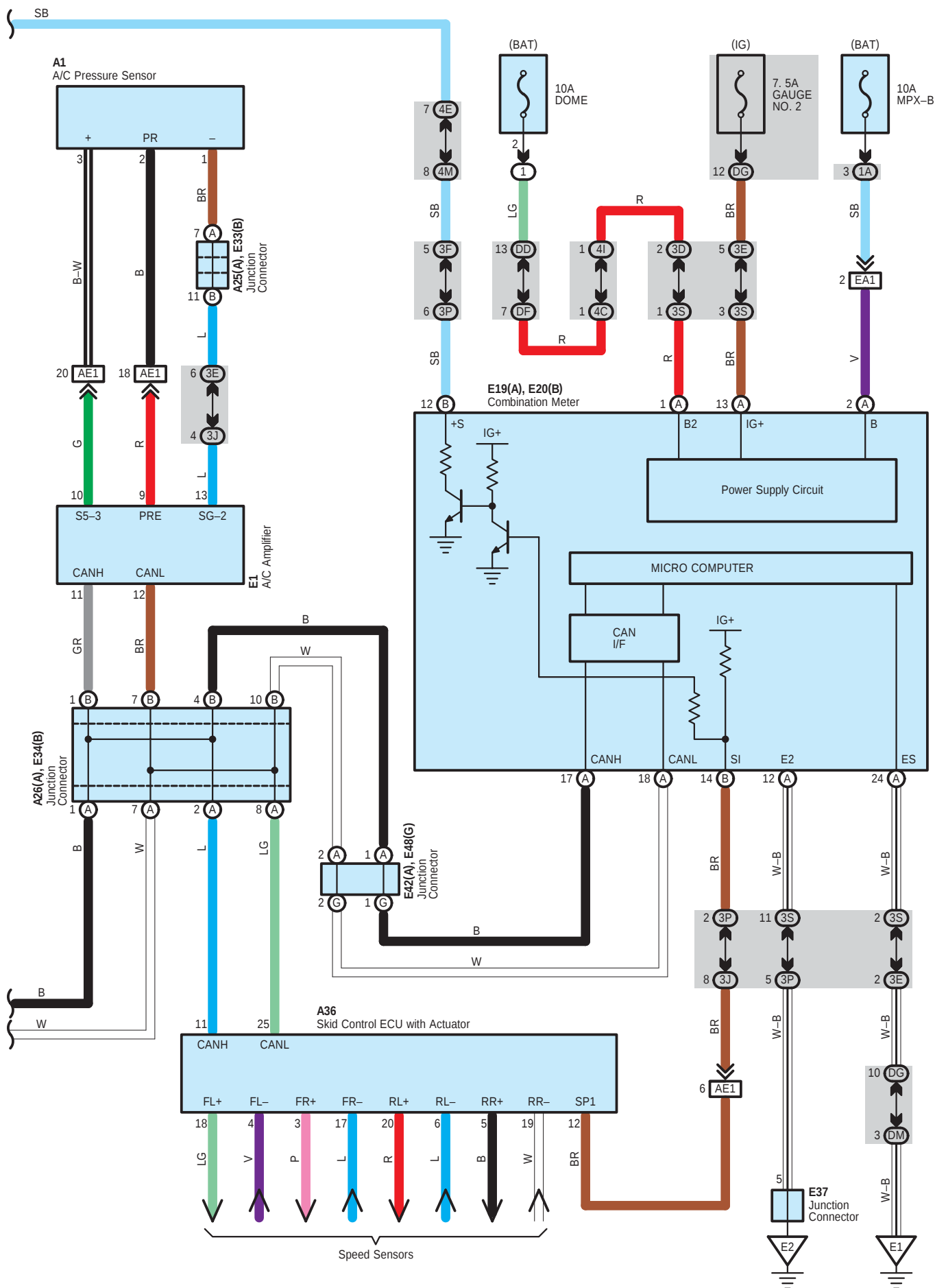
Code	See Page	Joining Wire Harness and Wire Harness (Connector Location)
AE1	69	Engine Room Main Wire and Instrument Panel Wire (Instrument Panel Right)
AE2	69	Engine Room Main Wire and Instrument Panel Wire (Instrument Panel Left)
AE5	69	Engine Room Main Wire and Instrument Panel Wire (Instrument Panel Right)
BA1	68	Engine Wire and Engine Room Main Wire (Inside of the Engine Room R/B and Engine Room J/B)
BA2		
BA3		
BA4		
EA1	69	Instrument Panel Wire and Engine Room Main Wire (Left Kick Panel)
EL2	69	Instrument Panel Wire and Floor Wire (Left Kick Panel)
EM2	69	Instrument Panel Wire and Floor No.2 Wire (Right Kick Panel)
LR1	70	Floor Wire and Luggage Room Wire (Roof Side Rear Inner Panel LH)
ME1	69	Floor No.2 Wire and Instrument Panel Wire (Instrument Panel Right)

 : Ground Points

Code	See Page	Ground Points Location
A1	68	Front Left Fender Apron
A2		
A4	68	Front Right Fender Apron
A5	69	Cowl Side Left
B2	68	Left Side of the Cylinder Block
E1	69	Left Side of the Instrument Panel Reinforcement
E2	69	Instrument Panel Brace LH
E4	69	Instrument Panel Brace RH
R1	70	Roof Side Rear Inner Panel LH

Cooling Fan





Cooling Fan

System Outline

The cooling fan ECU smoothly controls the cooling fan motor speed in accordance with the signals from the engine control module that are based on calculations from the engine coolant temperature, A/C SW, A/C refrigerant pressure, engine speed and vehicle speed to maintain the cooling and conditioning control.

○ : Parts Location

Code	See Page	Code	See Page	Code	See Page
A1	54	A36	55	E20	B 58
A7	54	B9	56	E33	B 58
A10	A 54	B12	B 56	E34	B 58
A25	A 60	B13	56	E37	58
A26	A 60	E1	58	E42	A 48, 59
A27	A 60	E19	A 58	E48	G 48, 59

○ : Relay Blocks

Code	See Page	Relay Blocks (Relay Block Location)
1	22	Engine Room R/B (Engine Compartment Left)

○ : Junction Block and Wire Harness Connector

Code	See Page	Junction Block and Wire Harness (Connector Location)
1A	24	Engine Room Main Wire and Engine Room J/B (Engine Compartment Left)
3D	36	Instrument Panel Wire and J/B No.3 (Instrument Panel Left)
3E		
3F		
3J		
3P		
3S	42	Instrument Panel Wire and J/B No.4 (Instrument Panel Right)
4C		
4E		
4I		
4M	30	Engine Room Main Wire and Instrument Panel J/B (Lower Finish Panel)
DC		
DD	30	Instrument Panel Wire and Instrument Panel J/B (Lower Finish Panel)
DF	30	
DG	31	
DM	30	

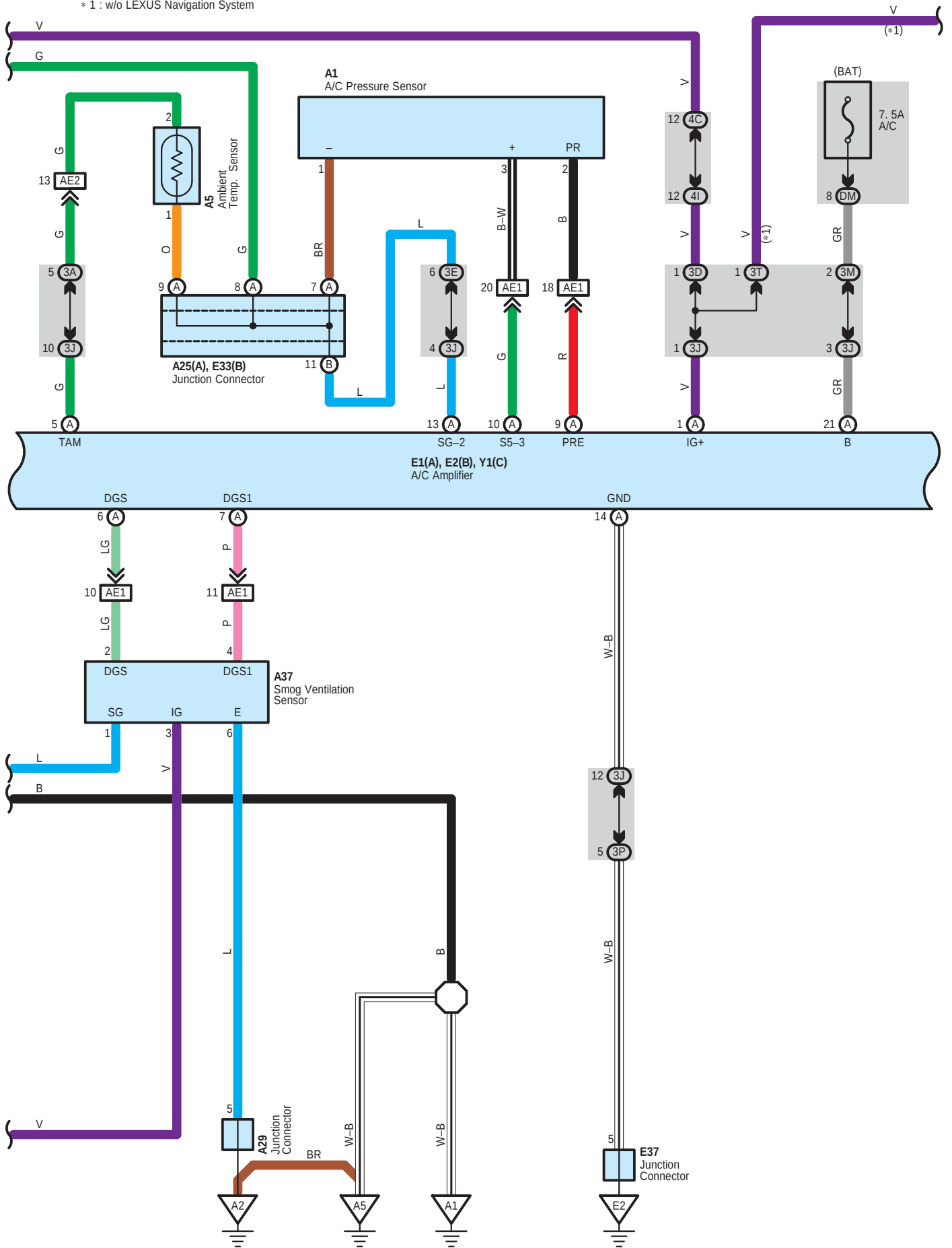
□ : Connector Joining Wire Harness and Wire Harness

Code	See Page	Joining Wire Harness and Wire Harness (Connector Location)
AA1	69	Engine Room Main Wire and Engine Room Main Wire (Cowl Side Right)
AE1	69	Engine Room Main Wire and Instrument Panel Wire (Instrument Panel Right)
AE5		
EA1	69	Instrument Panel Wire and Engine Room Main Wire (Left Kick Panel)

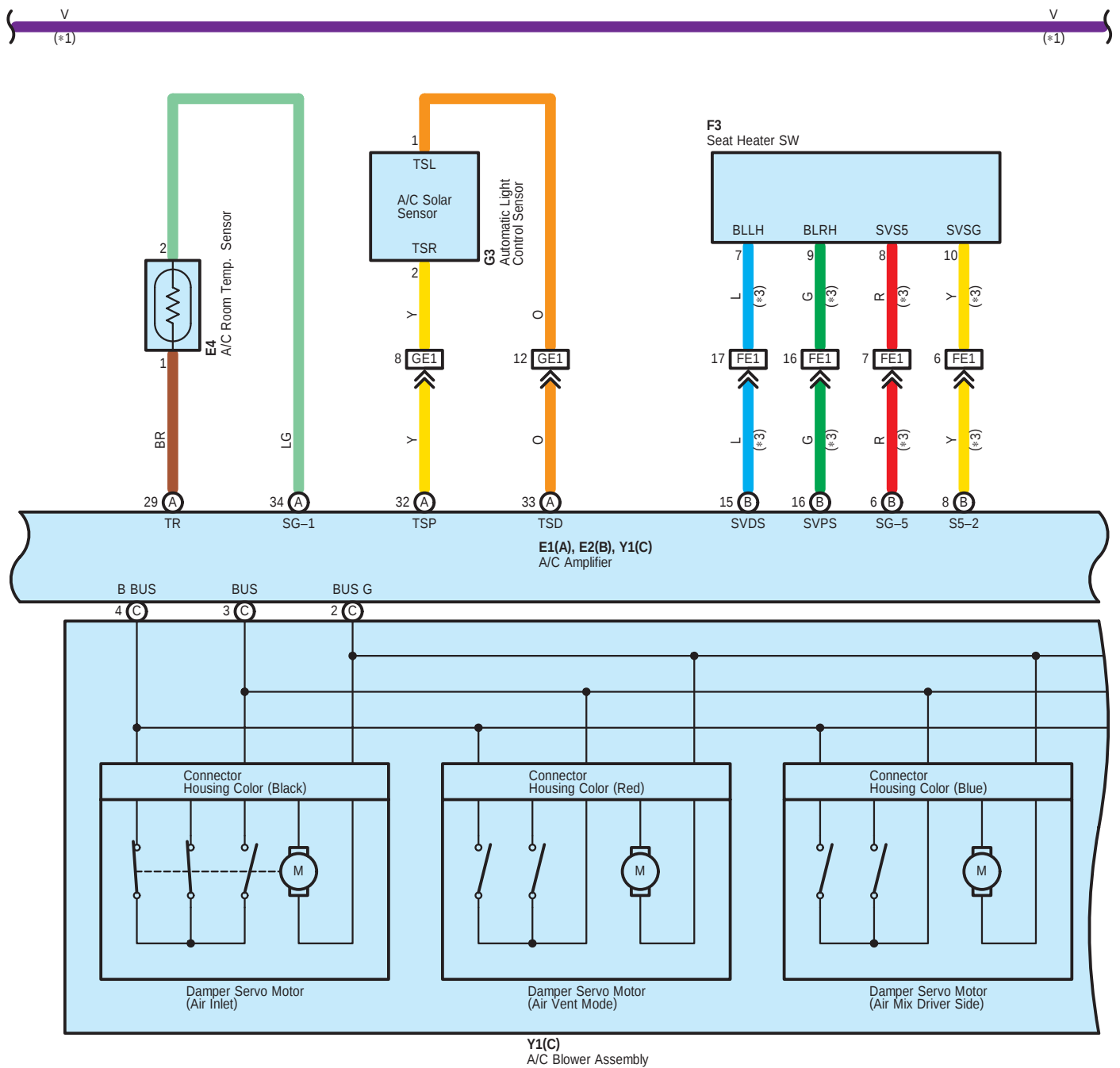
▽ : Ground Points

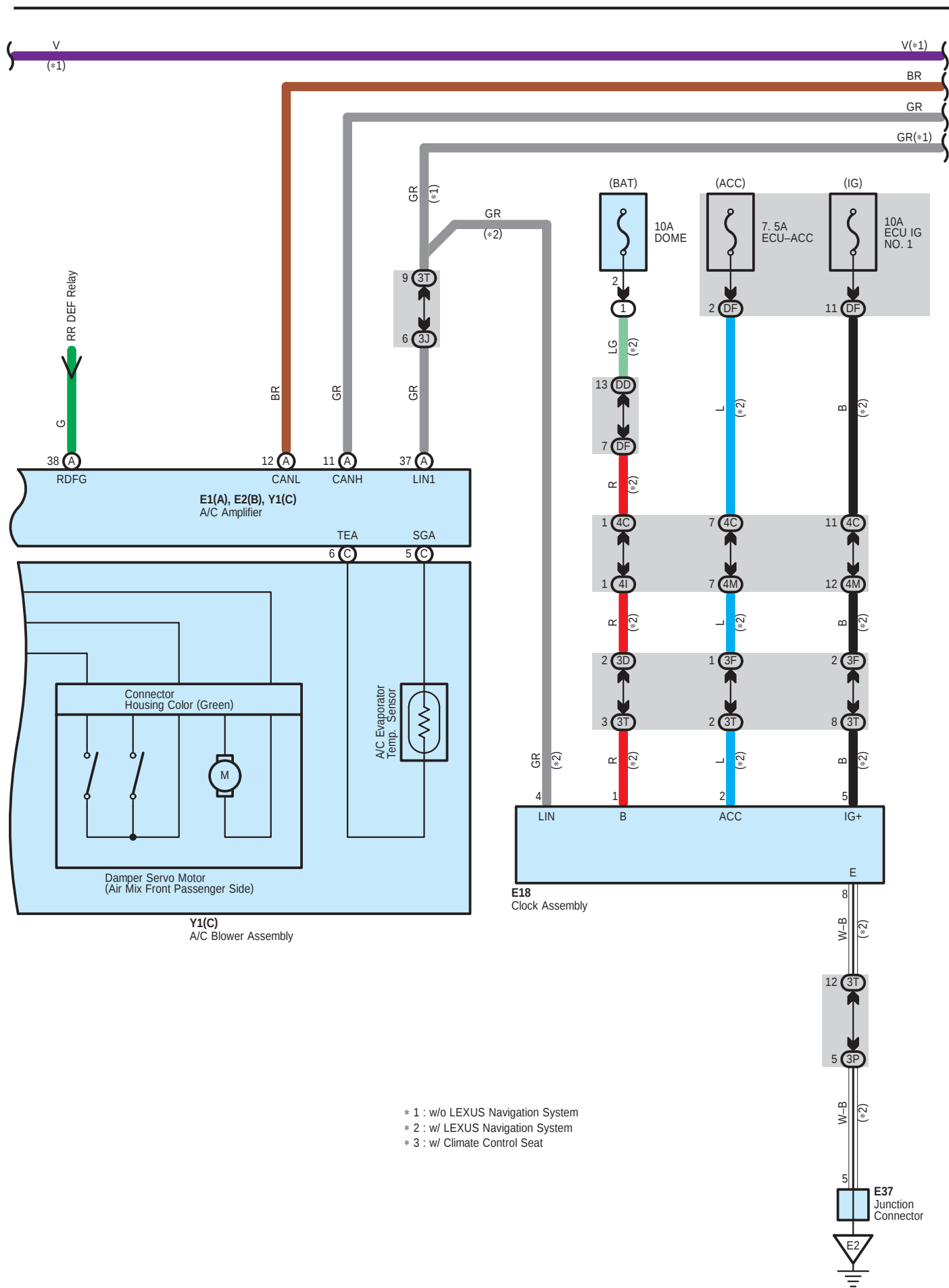
Code	See Page	Ground Points Location
A1	68	Front Left Fender Apron
B2	68	Left Side of the Cylinder Block
E1	69	Left Side of the Instrument Panel Reinforcement
E2	69	Instrument Panel Brace LH

* 1 : w/o LEXUS Navigation System



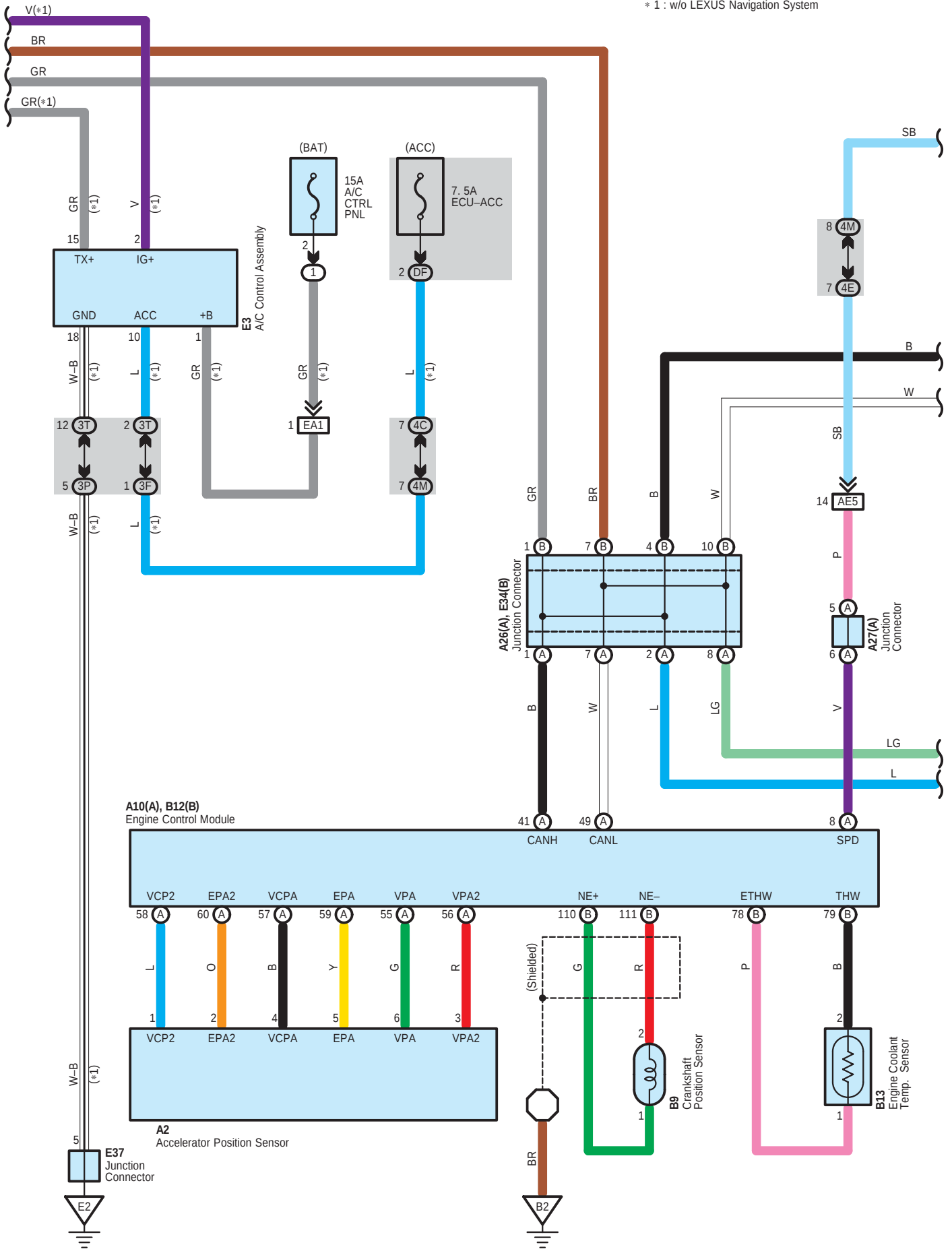
Air Conditioning

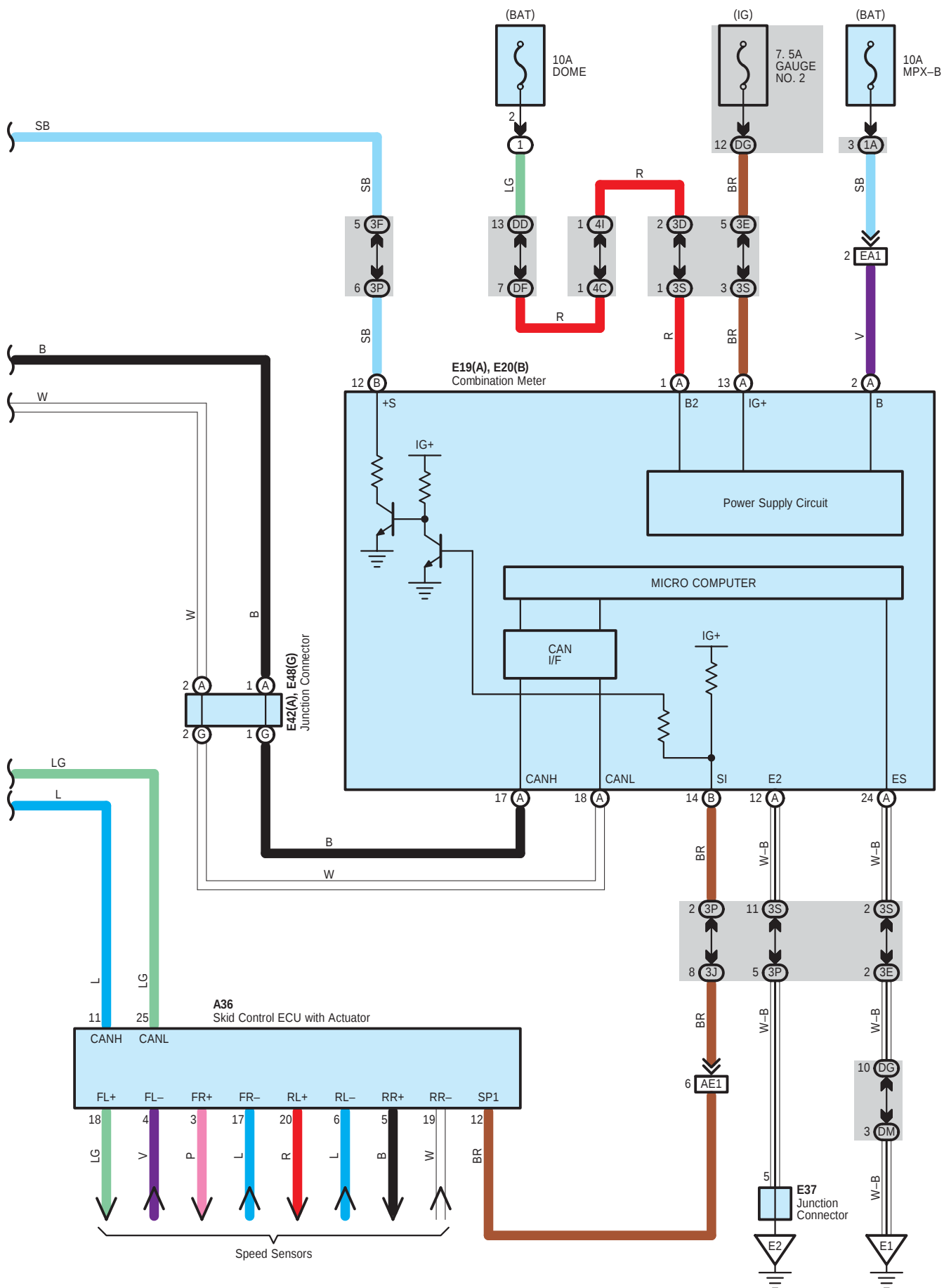




Air Conditioning

* 1 : w/o LEXUS Navigation System





Air Conditioning

: Parts Location

Code		See Page	Code		See Page	Code		See Page
A1		54	B1	A	56	E19	A	58
A2		60	B2	B	56	E20	B	58
A5		54	B9		56	E33	B	58
A10	A	54	B12	B	56	E34	B	58
A25	A	60	B13		56	E37		58
A26	A	60	E1	A	58	E42	A	48, 59
A27	A	60	E2	B	58	E48	G	48, 59
A28	B	60	E3		58	F3		61
A29		54	E4		58	G3		61
A36		55	E12		58	Y1	C	61
A37		55	E18		58			

: Relay Blocks

Code	See Page	Relay Blocks (Relay Block Location)
1	22	Engine Room R/B (Engine Compartment Left)

: Junction Block and Wire Harness Connector

Code	See Page	Junction Block and Wire Harness (Connector Location)
1A	24	Engine Room Main Wire and Engine Room J/B (Engine Compartment Left)
3A	36	Instrument Panel Wire and J/B No.3 (Instrument Panel Left)
3D		
3E		
3F		
3H		
3J		
3M		
3P		
3S		
3T		
3U		
4C	42	Instrument Panel Wire and J/B No.4 (Instrument Panel Right)
4E		
4I		
4M		
DD	30	Engine Room Main Wire and Instrument Panel J/B (Lower Finish Panel)
DF	30	Instrument Panel Wire and Instrument Panel J/B (Lower Finish Panel)
DG	31	
DM	30	

: Connector Joining Wire Harness and Wire Harness

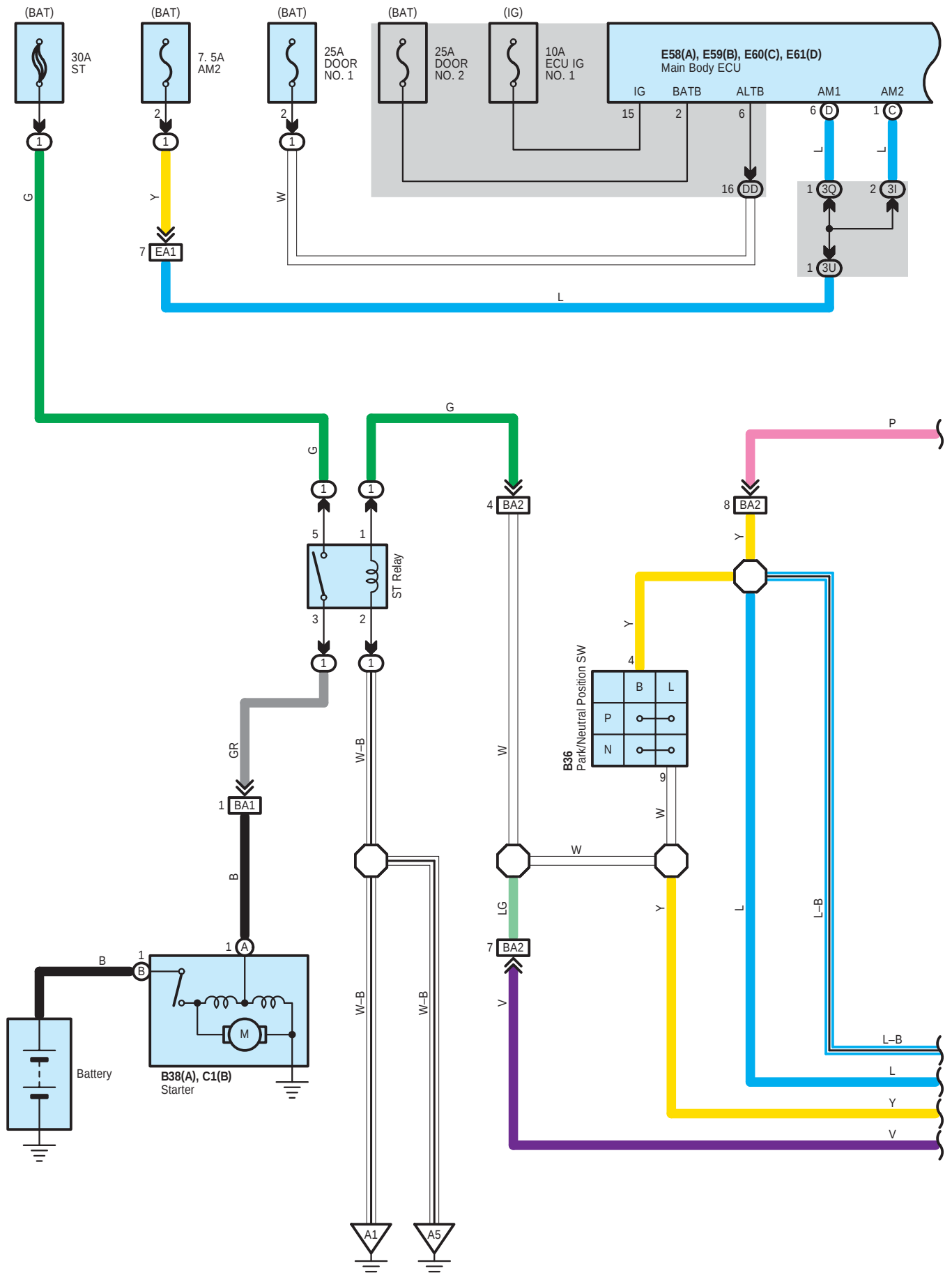
Code	See Page	Joining Wire Harness and Wire Harness (Connector Location)
AE1	69	Engine Room Main Wire and Instrument Panel Wire (Instrument Panel Right)
AE2	69	Engine Room Main Wire and Instrument Panel Wire (Instrument Panel Left)
AE3	69	Engine Room Main Wire and Instrument Panel Wire (Instrument Panel Right)
AE5		
BA3	68	Engine Wire and Engine Room Main Wire (Inside of the Engine Room R/B and Engine Room J/B)
EA1	69	Instrument Panel Wire and Engine Room Main Wire (Left Kick Panel)
FE1	69	Instrument Panel No.2 Wire and Instrument Panel Wire (Under the Console Box)
GE1	69	Instrument Panel No.3 Wire and Instrument Panel Wire (Instrument Panel Center)



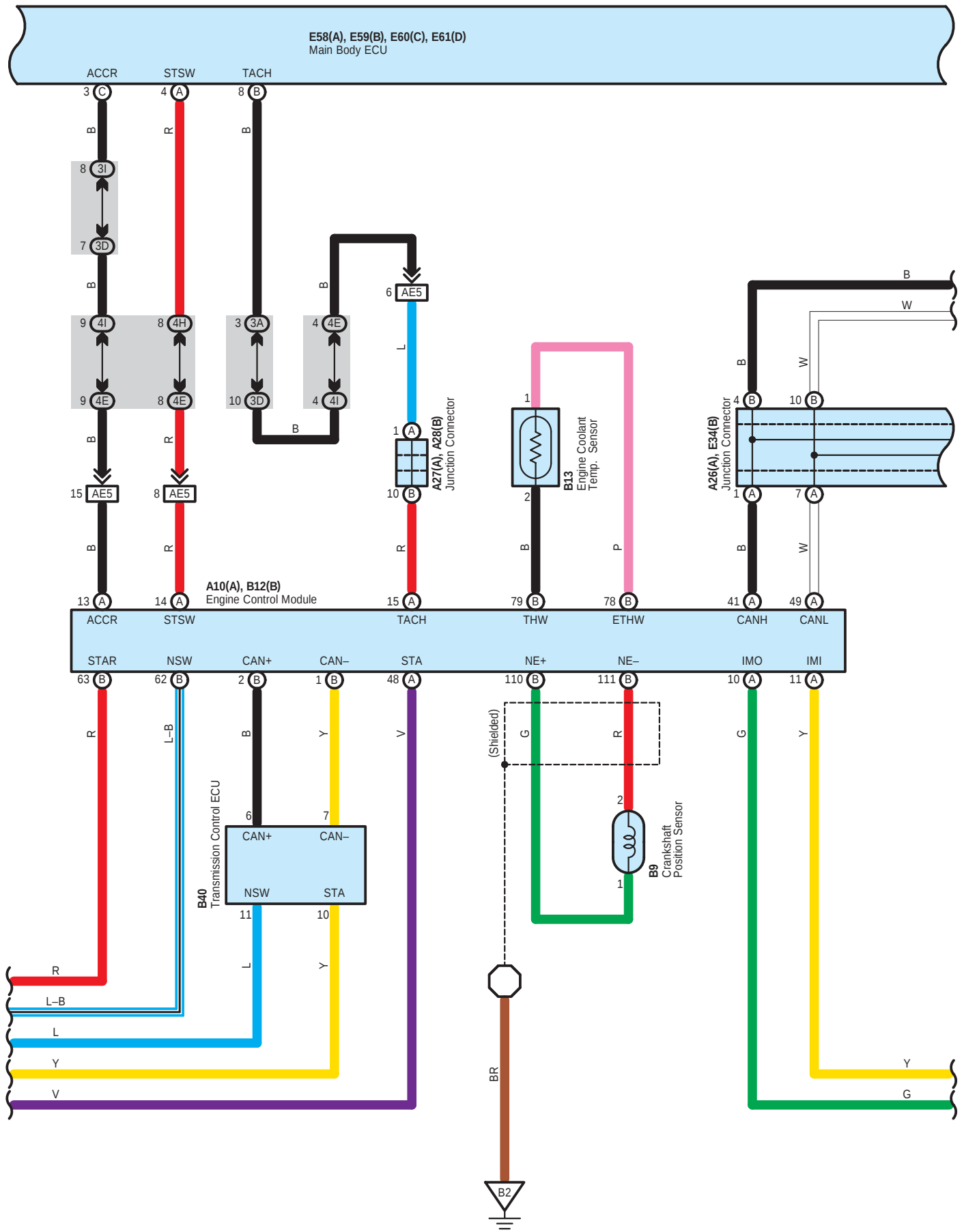
: Ground Points

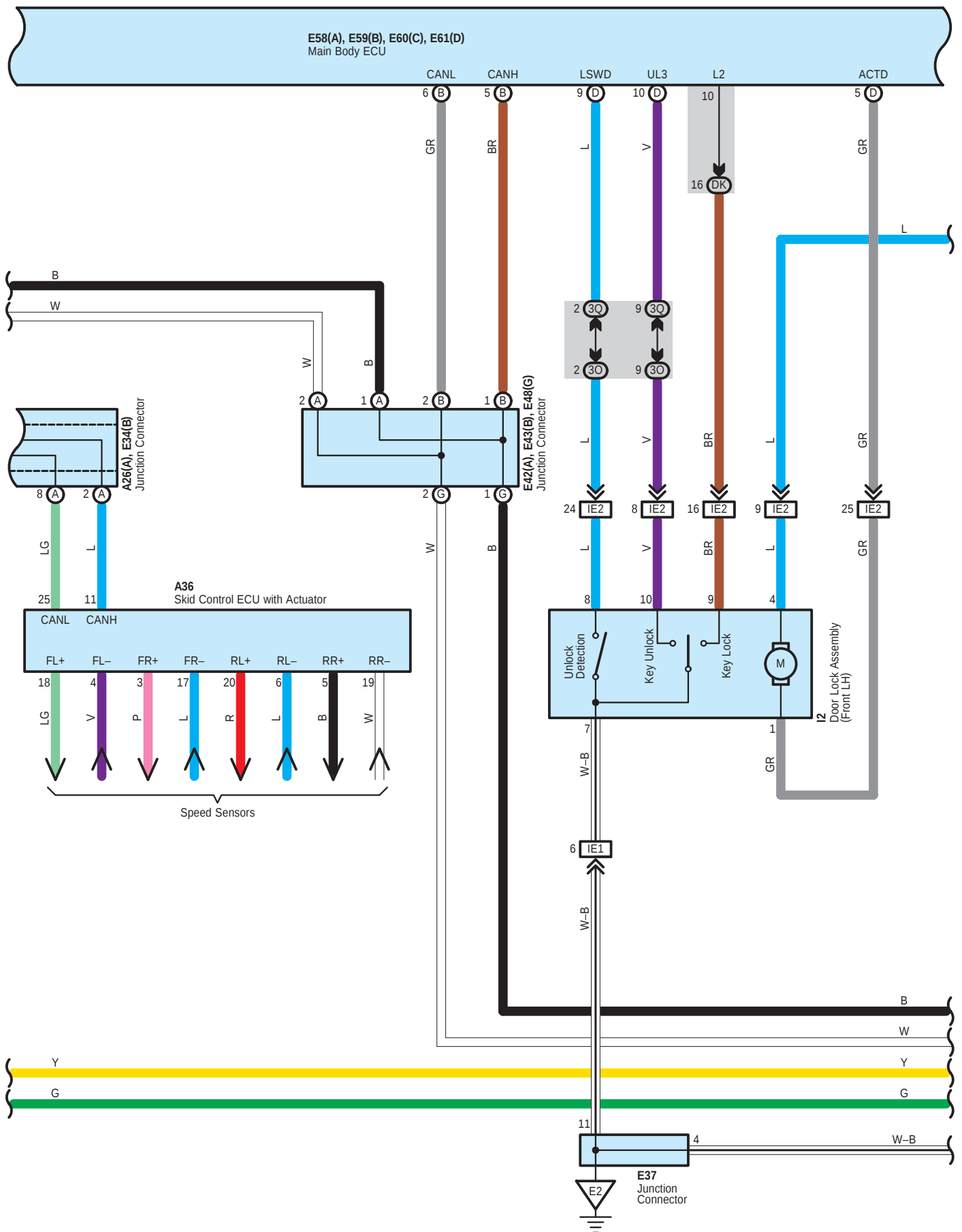
Code	See Page	Ground Points Location
A1	68	Front Left Fender Apron
A2		
A5	69	Cowl Side Left
B2	68	Left Side of the Cylinder Block
E1	69	Left Side of the Instrument Panel Reinforcement
E2	69	Instrument Panel Brace LH
E3	69	Right Side of the Instrument Panel Reinforcement

Smart Access System with Push-Button Start

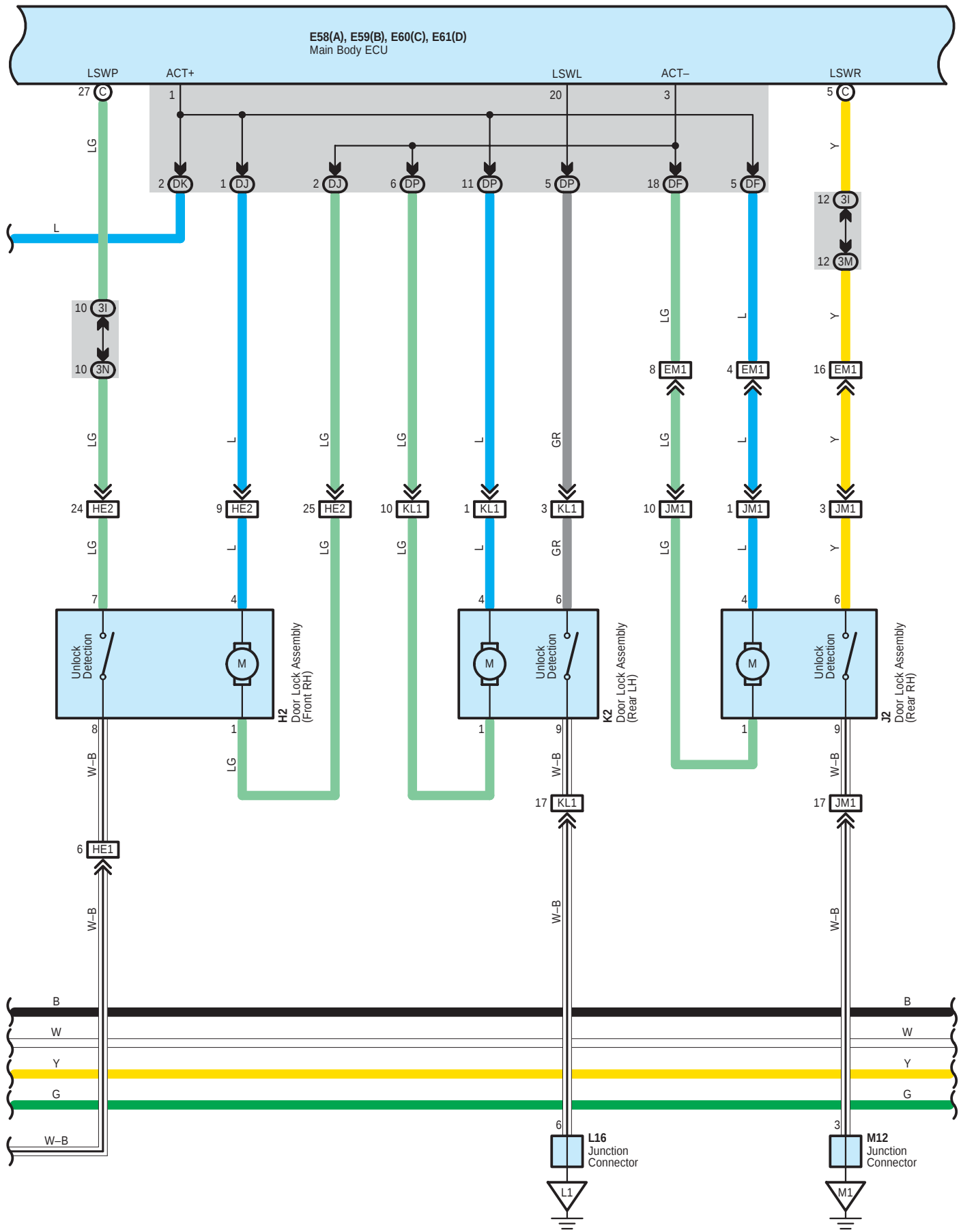


Smart Access System with Push-Button Start

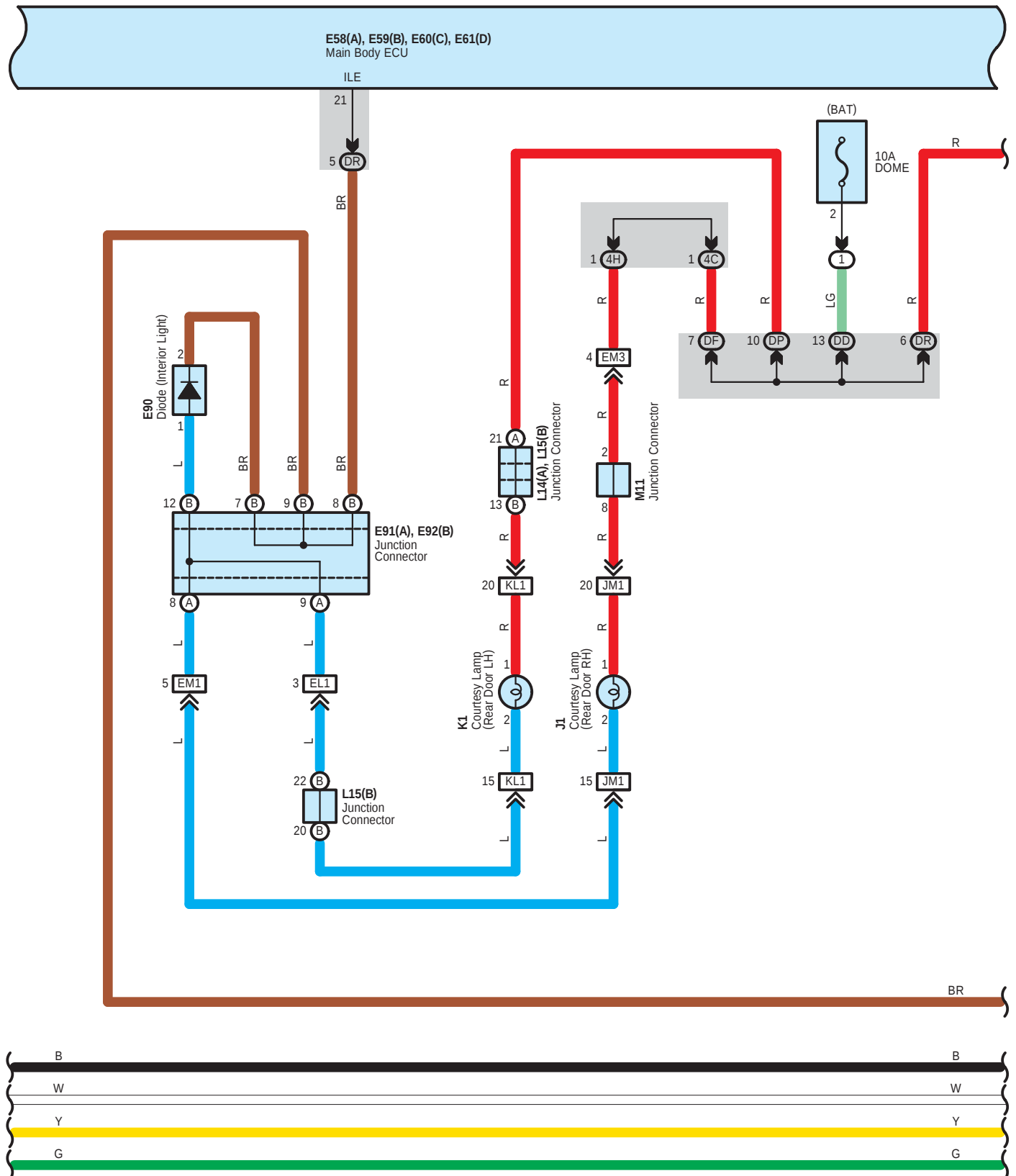




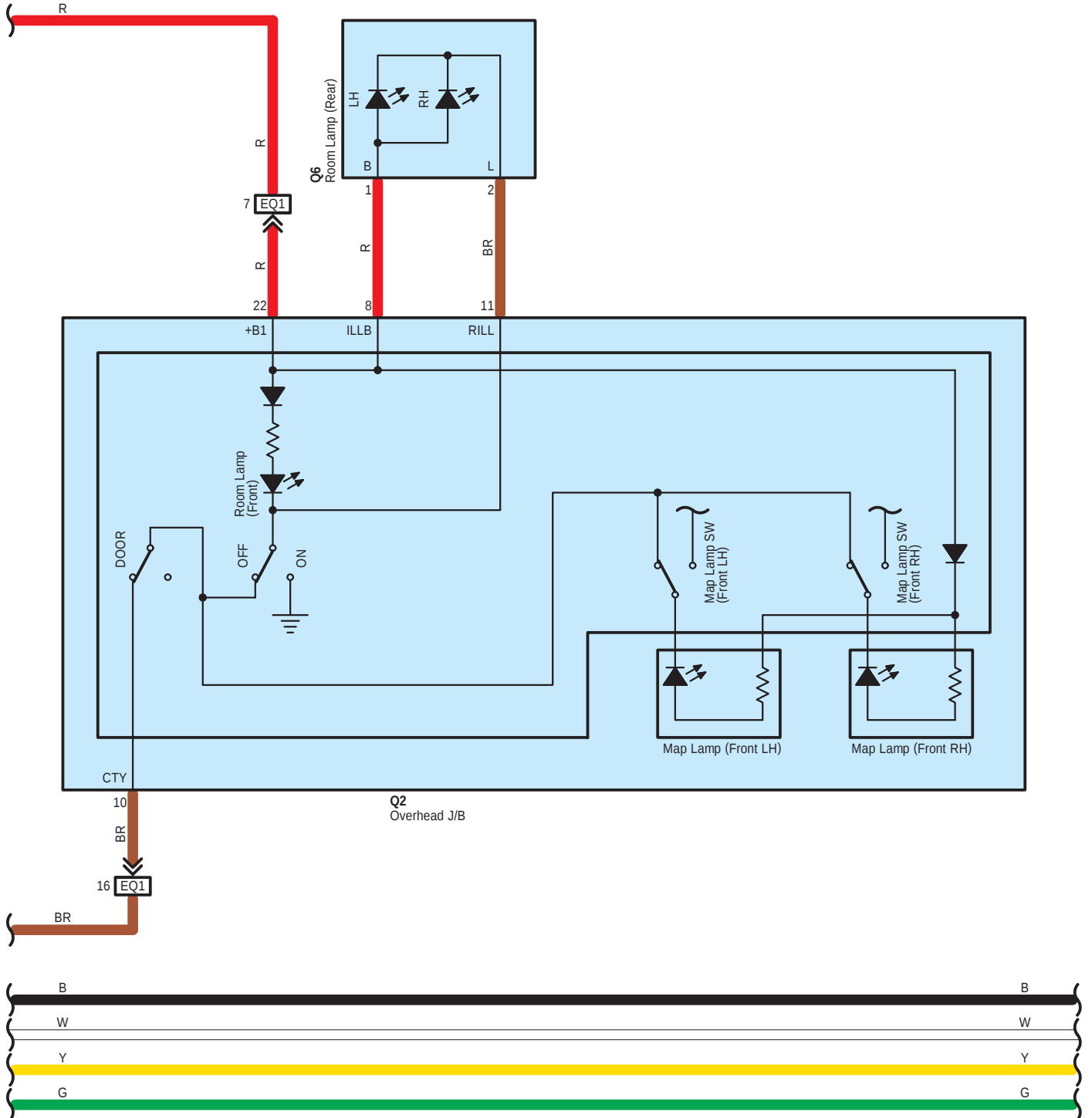
Smart Access System with Push-Button Start

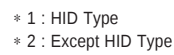


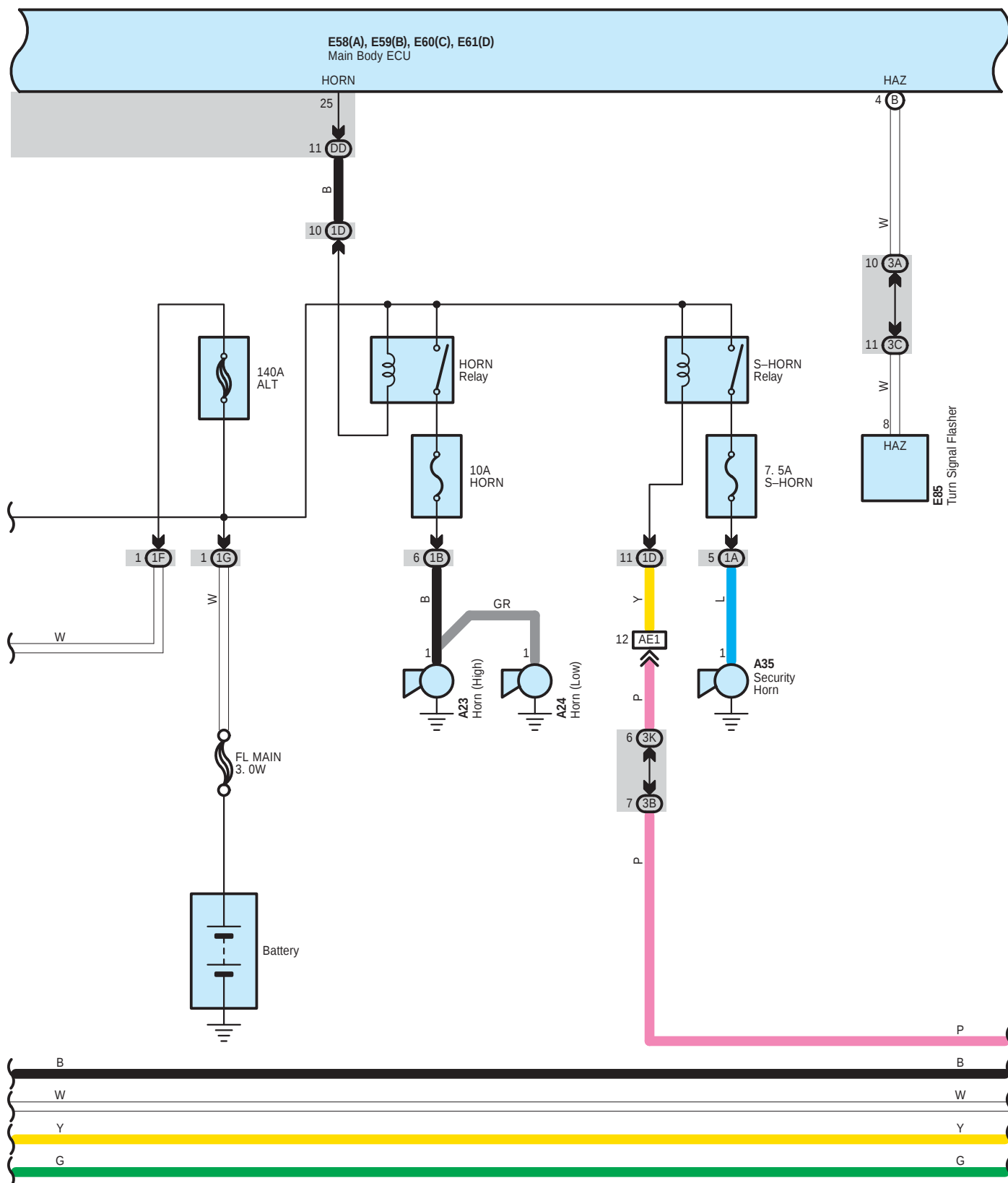
Smart Access System with Push-Button Start



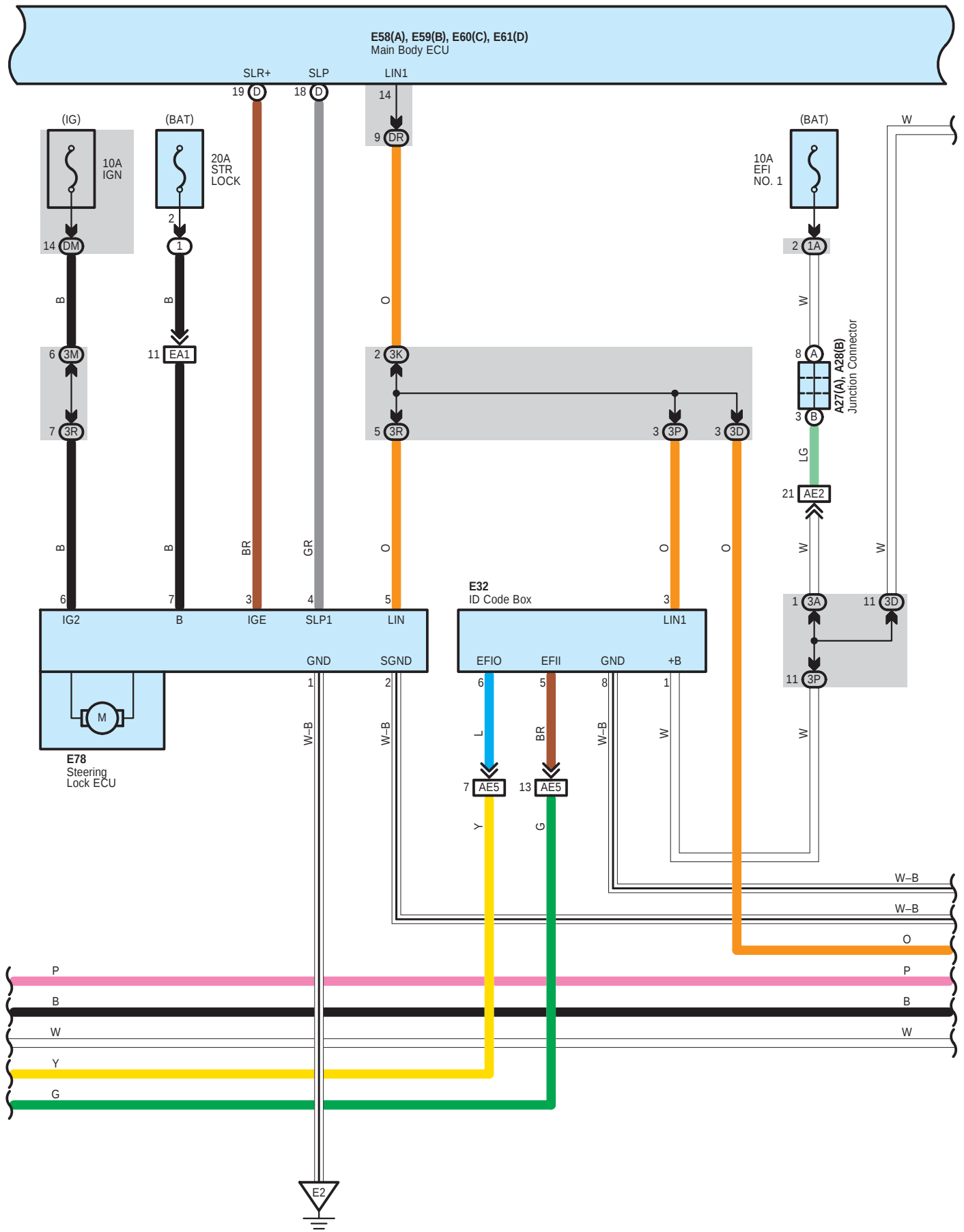
E58(A), E59(B), E60(C), E61(D)
Main Body ECU

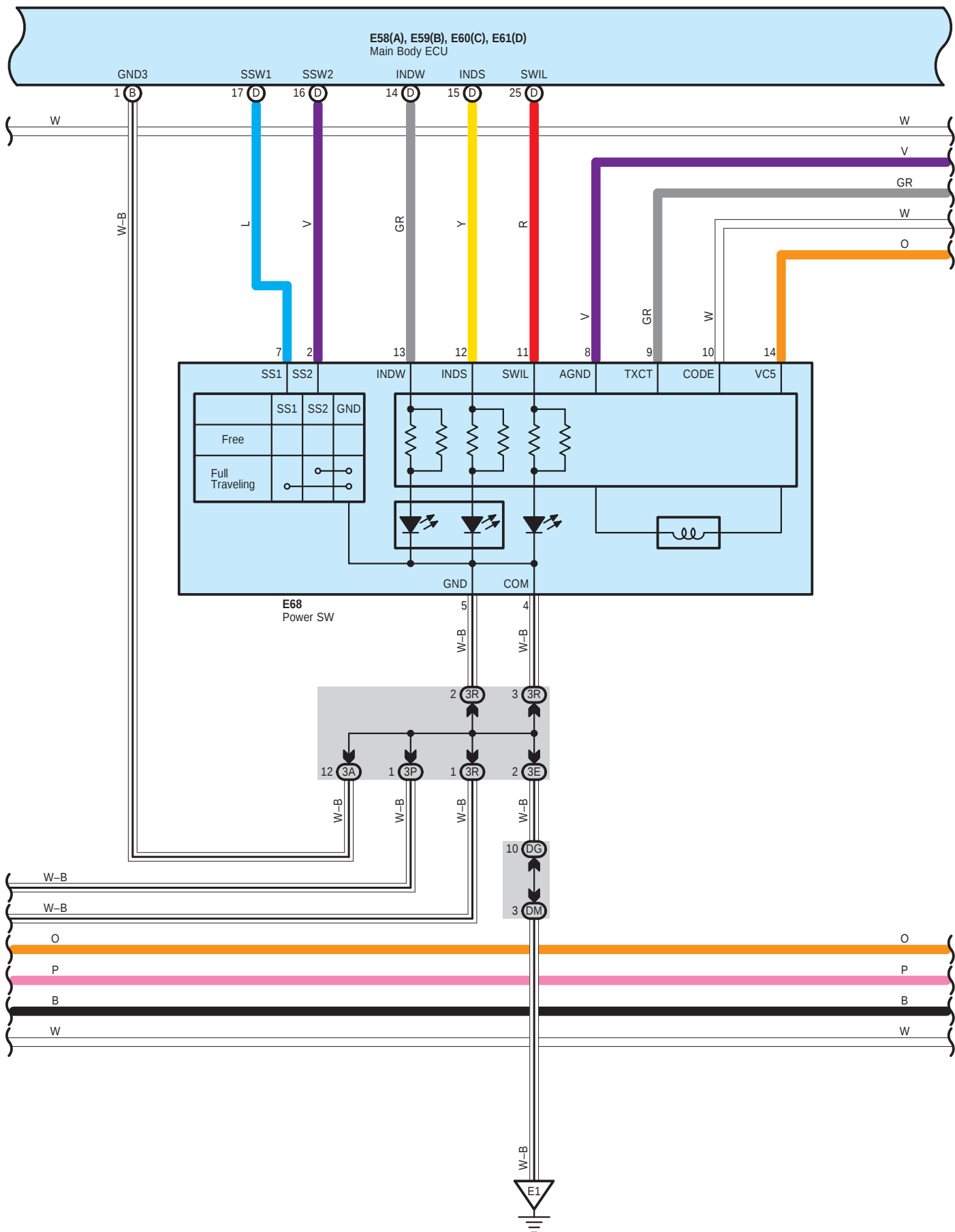


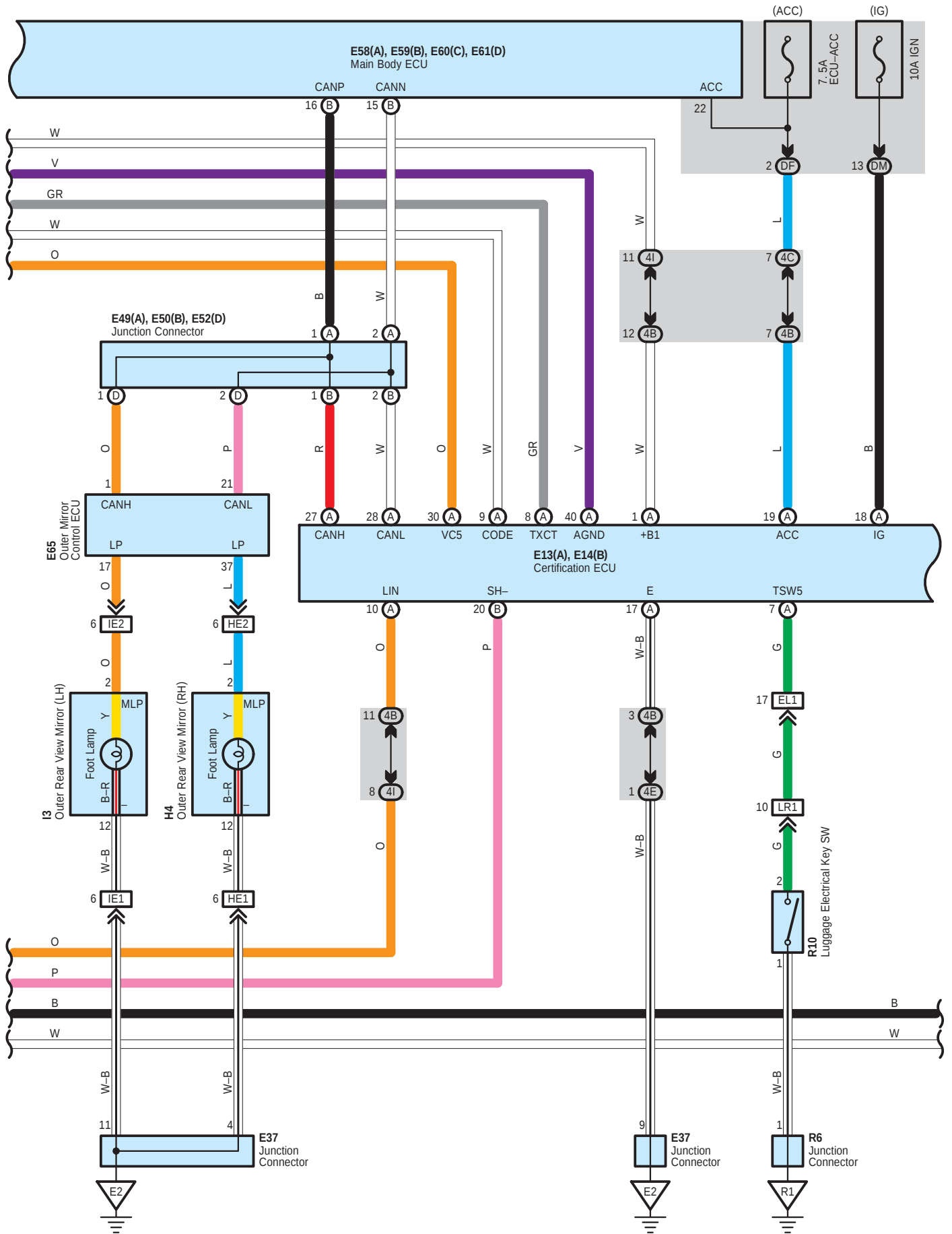


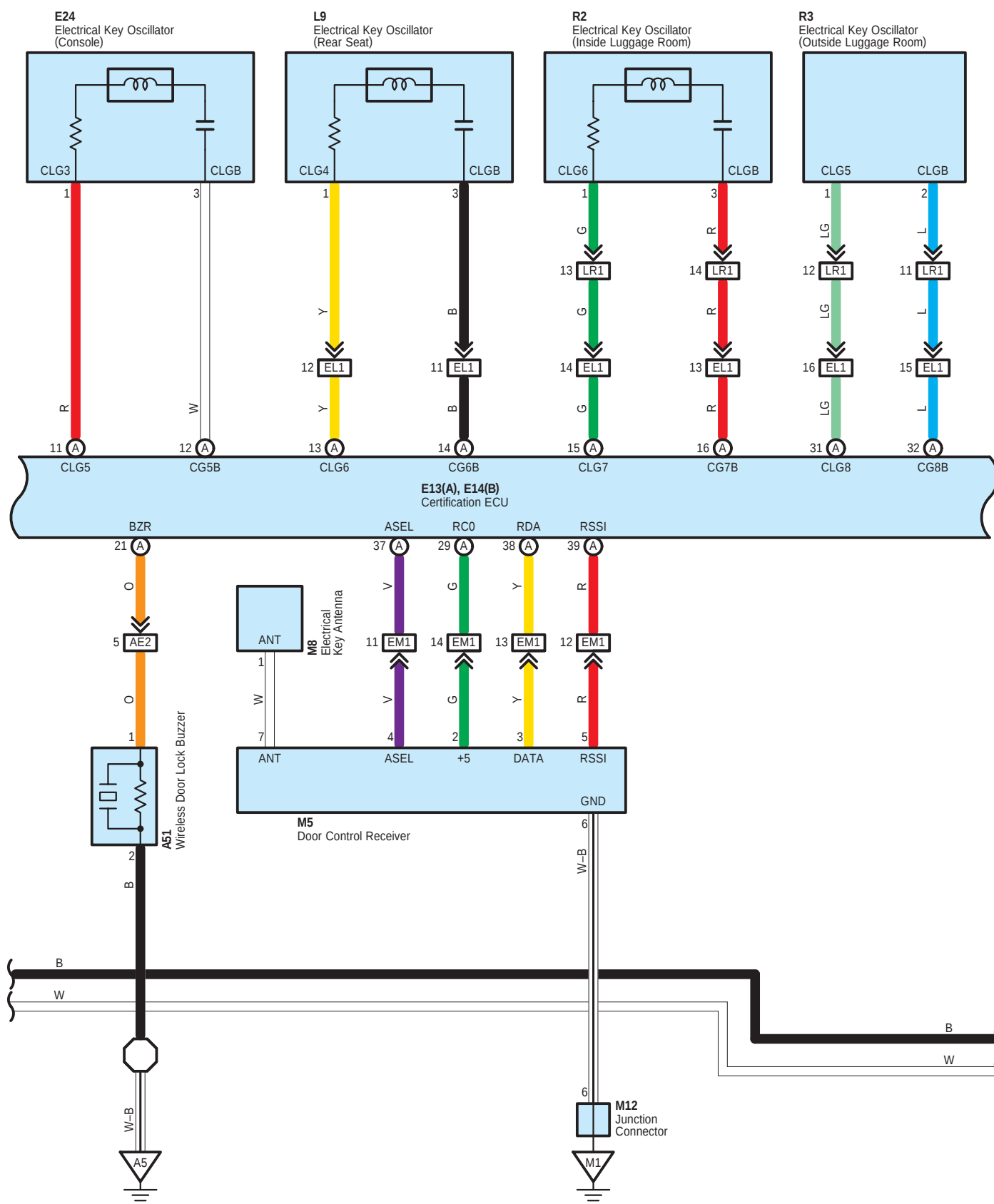


Smart Access System with Push-Button Start

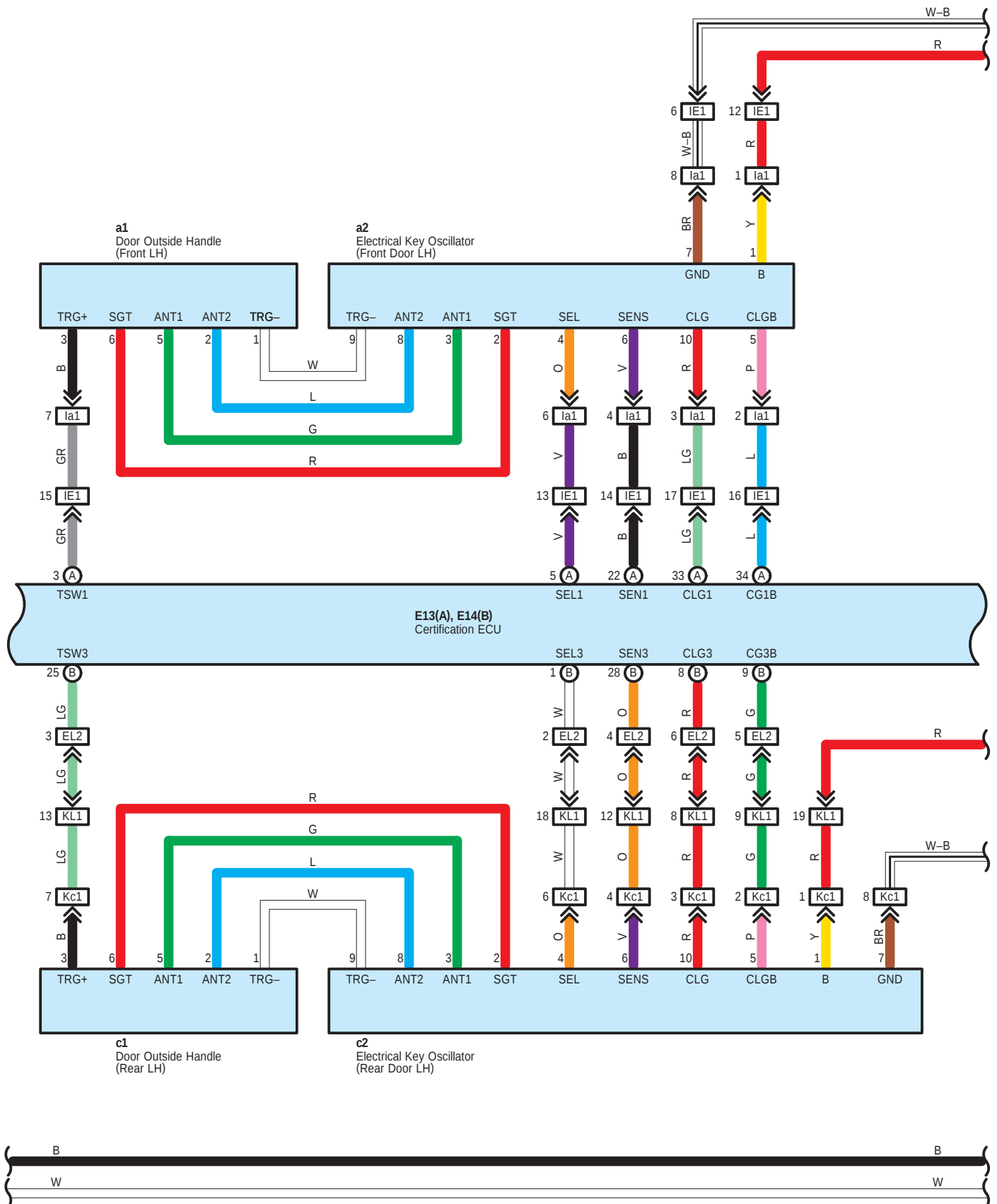


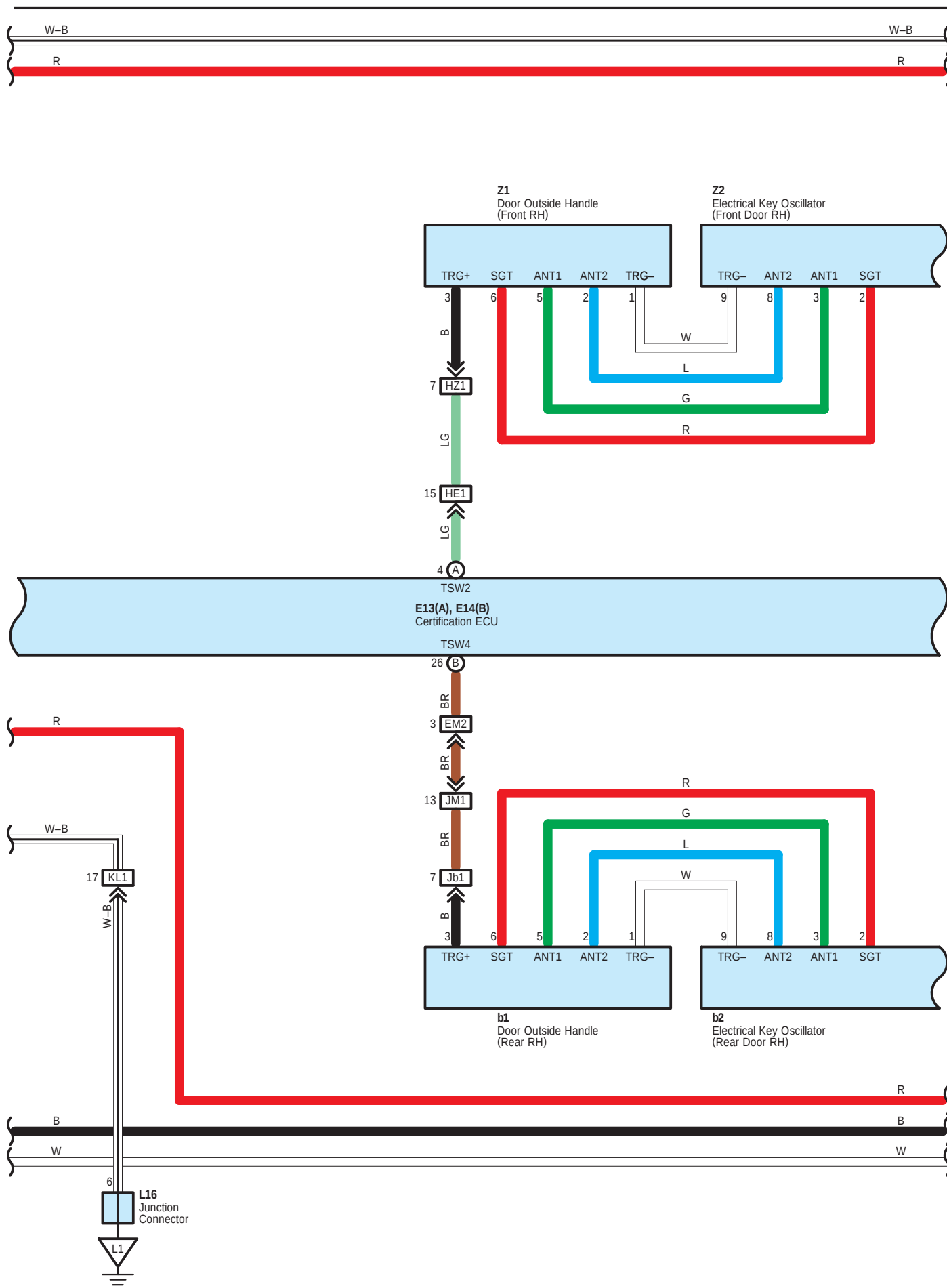




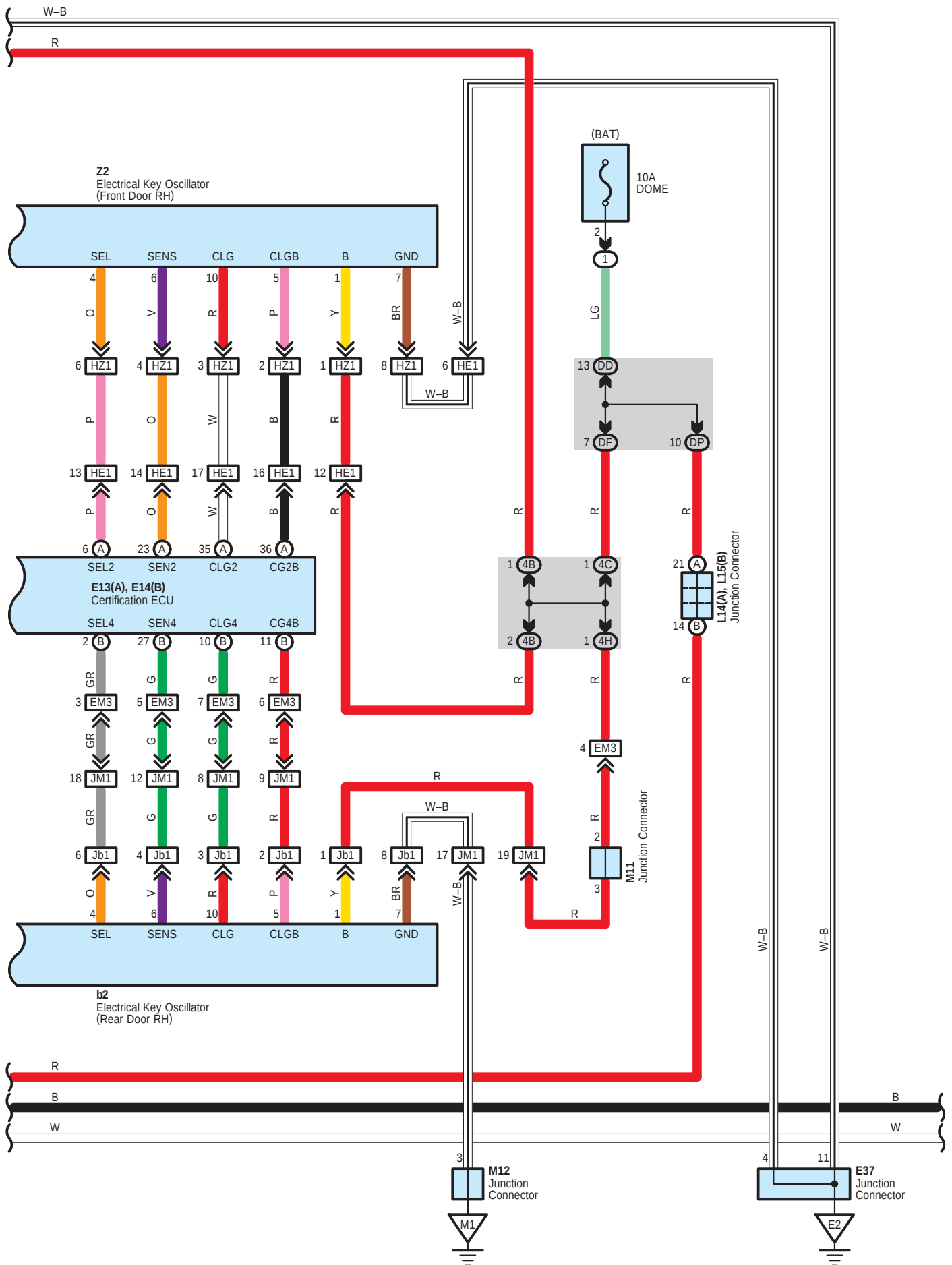


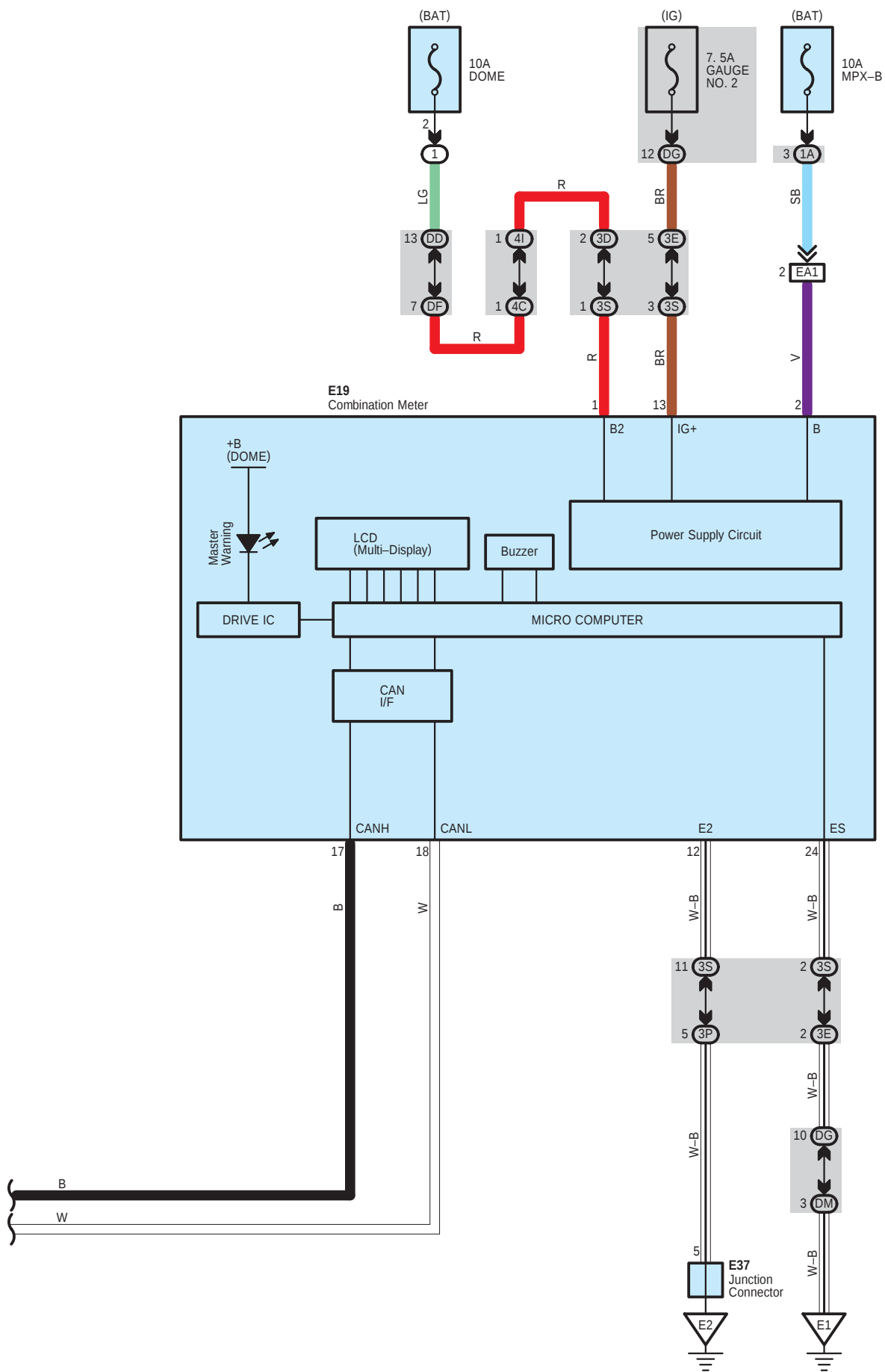
Smart Access System with Push-Button Start





Smart Access System with Push-Button Start





* Steering lock

Receiving signals from the power SW and the key, the certification ECU sends instruction for locking and unlocking the steering lock to the steering lock ECU (Built in the steering lock) in order to activate the motor. The steering lock ECU detects position of the lock bar and stops the motor at the specified position.

○ : Parts Location

Code		See Page	Code		See Page	Code		See Page
A10	A	54	E42	A	48, 59	L9		62
A23		54	E43	B	48, 59	L14	A	62
A24		54	E48	G	48, 59	L15	B	62
A25	A	60	E49	A	50, 59	L16		62
A26	A	60	E50	B	50, 59	M5		62
A27	A	60	E52	D	50, 59	M6		62
A28	B	60	E58	A	59	M7		62
A29		54	E59	B	59	M8		62
A35		54	E60	C	59	M11		62
A36		55	E61	D	59	M12		62
A40		60	E65		59	Q2		64
A51		55	E68		59	Q6		64
B9		56	E78		59	R1		65
B12	B	56	E85		59	R2		65
B13		56	E90		59	R3		65
B36		57	E91	A	59	R6		65
B38	A	57	E92	B	59	R10		65
B40		57	H2		63	Z1		65
C1	B	57	H4		63	Z2		65
E13	A	58	I2		63	a1		65
E14	B	58	I3		63	a2		65
E19		58	J1		63	b1		65
E24		58	J2		63	b2		65
E32		58	K1		63	c1		65
E33	B	58	K2		63	c2		65
E34	B	58	L7		62			
E37		58	L8		62			

 : Relay Blocks

Code	See Page	Relay Blocks (Relay Block Location)
1	22	Engine Room R/B (Engine Compartment Left)



: Junction Block and Wire Harness Connector

Code	See Page	Junction Block and Wire Harness (Connector Location)
1A	24	Engine Room Main Wire and Engine Room J/B (Engine Compartment Left)
1B		
1D		
1F	22	
1G		
3A		36
3B		
3C		
3D		
3E		
3G		
3I		
3K		
3M		
3N		
3O		
3P		
3Q		
3R		
3S		
3U		
4B	42	Instrument Panel Wire and J/B No.4 (Instrument Panel Right)
4C		
4E		
4H		
4I		
DA	30	Engine Room Main Wire and Instrument Panel J/B (Lower Finish Panel)
DC		
DD		
DF	30	Instrument Panel Wire and Instrument Panel J/B (Lower Finish Panel)
DG	31	
DI		
DJ	30	
DK		
DM		
DO	30	Floor Wire and Instrument Panel J/B (Lower Finish Panel)
DP		
DR	30	Instrument Panel Wire and Instrument Panel J/B (Lower Finish Panel)

Smart Access System with Push-Button Start

: Connector Joining Wire Harness and Wire Harness

Code	See Page	Joining Wire Harness and Wire Harness (Connector Location)
AE1	69	Engine Room Main Wire and Instrument Panel Wire (Instrument Panel Right)
AE2	69	Engine Room Main Wire and Instrument Panel Wire (Instrument Panel Left)
AE5	69	Engine Room Main Wire and Instrument Panel Wire (Instrument Panel Right)
BA1	68	Engine Wire and Engine Room Main Wire (Inside of the Engine Room R/B and Engine Room J/B)
BA2		
EA1	69	Instrument Panel Wire and Engine Room Main Wire (Left Kick Panel)
EL1	69	Instrument Panel Wire and Floor Wire (Left Kick Panel)
EL2		
EM1	69	Instrument Panel Wire and Floor No.2 Wire (Right Kick Panel)
EM2		
EM3		
EQ1	69	Instrument Panel Wire and Roof Wire (Front Pillar LH)
HE1	69	Front Door RH Wire and Instrument Panel Wire (Right Kick Panel)
HE2		
HZ1	70	Front Door RH Wire and Electrical Key Wire Harness Front RH (Front Door Inner Panel RH)
IE1	69	Front Door LH Wire and Instrument Panel Wire (Left Kick Panel)
IE2		
Ia1	70	Front Door LH Wire and Electrical Key Wire Harness Front LH (Front Door Inner Panel LH)
JM1	70	Rear Door No.1 Wire and Floor No.2 Wire (Center Pillar RH)
Jb1	70	Rear Door No.1 Wire and Electrical Key Wire Harness Rear RH (Rear Door Inner Panel RH)
KL1	70	Rear Door No.2 Wire and Floor Wire (Center Pillar LH)
Kc1	70	Rear Door No.2 Wire and Electrical Key Wire Harness Rear LH (Rear Door Inner Panel LH)
LR1	70	Floor Wire and Luggage Room Wire (Roof Side Rear Inner Panel LH)

: Ground Points

Code	See Page	Ground Points Location
A1	68	Front Left Fender Apron
A2		
A5	69	Cowl Side Left
B2	68	Left Side of the Cylinder Block
E1	69	Left Side of the Instrument Panel Reinforcement
E2	69	Instrument Panel Brace LH
L1	70	Rear Pillar LH
M1	70	Roof Side Rear Inner Panel RH
R1	70	Roof Side Rear Inner Panel LH

2007 ES 350

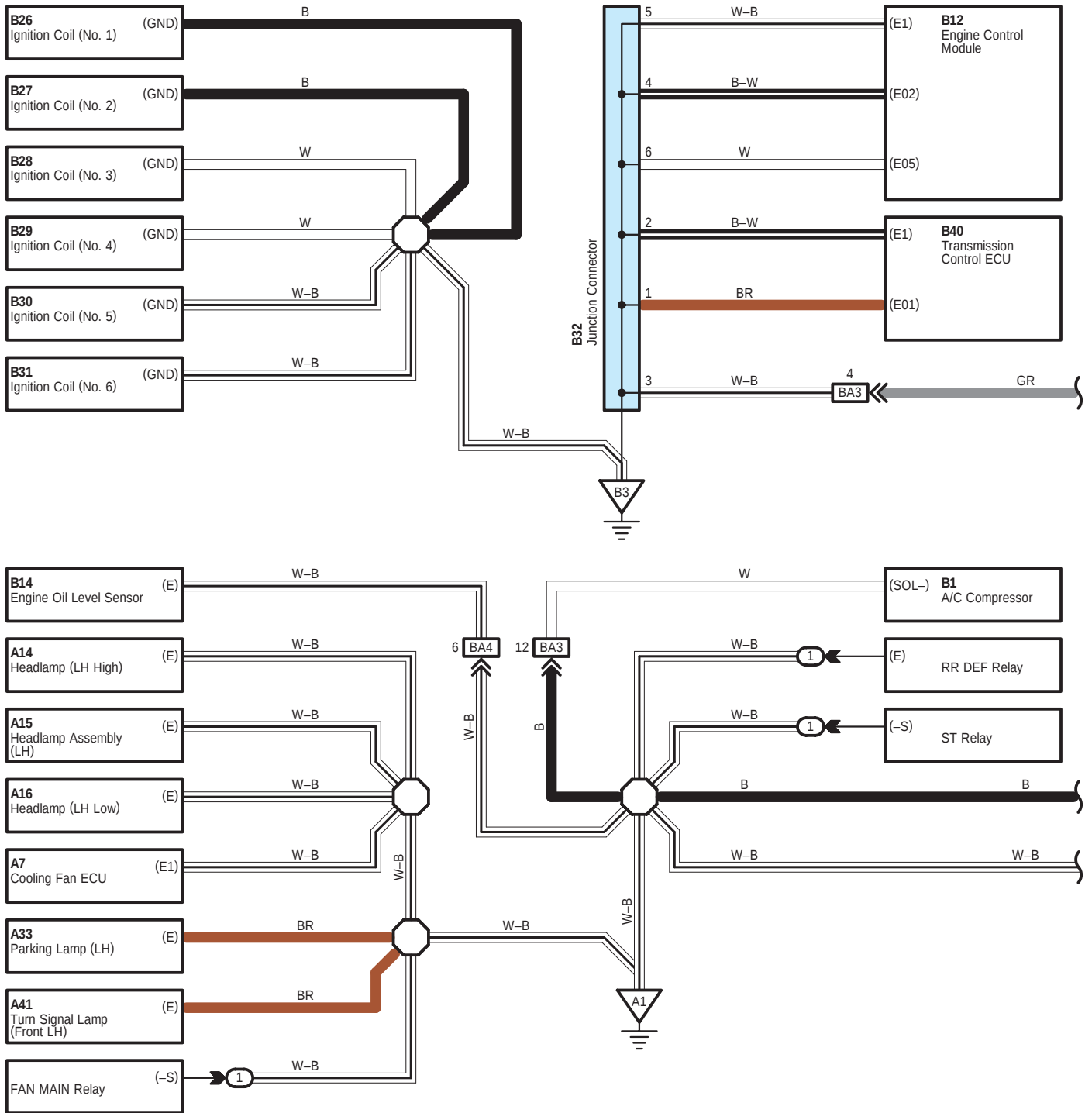
ELECTRICAL WIRING DIAGRAM

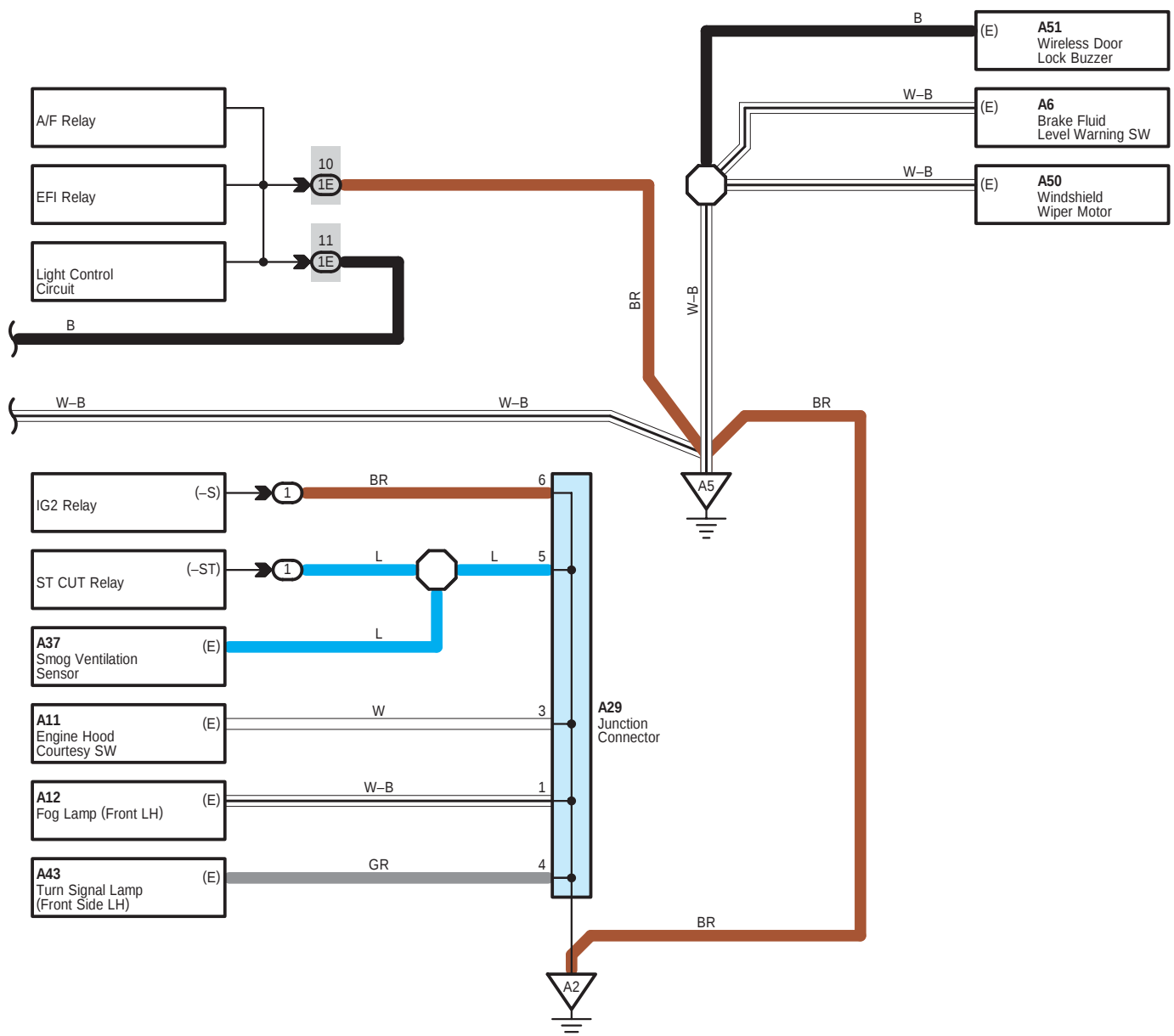
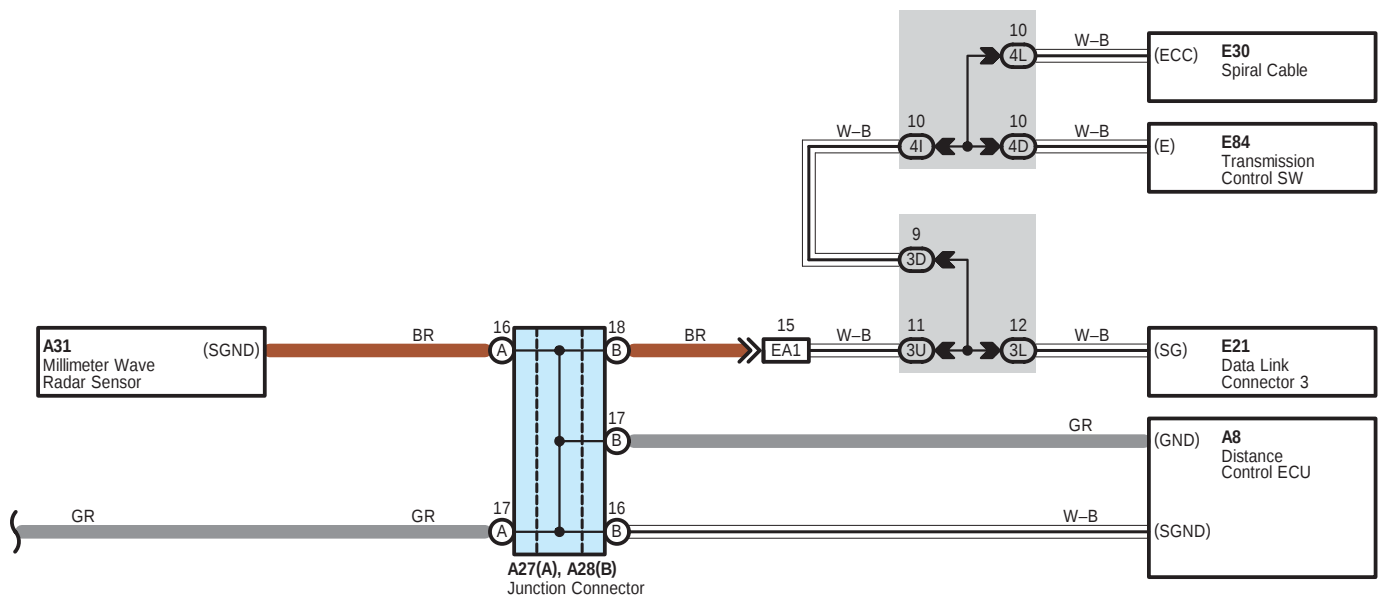
SYSTEM CIRCUITS

	Page
ABS	280
Adaptive Front-Lighting System	190
Air Conditioning	404
Audio System	382
Automatic Glare-Resistant EC Mirror and Compass	354
Automatic Light Control	182
Back-Up Light	168
Charging	102
Cigarette Lighter	358
Climate Control Seat	348
Clock (w/ LEXUS Navigation System)	376
Combination Meter	392
Cooling Fan	400
Cruise Control	268
Data Link Connector 3	126
Door Lock Control	218
Dynamic Radar Cruise Control	250
Electric Tension Reducer	328
Electronically Controlled Transmission and A/T Indicator	238
Engine Control	108
Front Fog Light	170
Fuel Lid Opener	322
Garage Door Opener	356
Headlight	132
Headlight Beam Level Control (w/o Adaptive Front-Lighting System) ...	196
Horn	362
Ignition	104
Illumination	150
Interior Light	138
LEXUS Navigation System	382
Light Auto Turn Off System	186
Luggage Compartment Door Opener	324
Mirror Heater	372
Multiplex Communication System (CAN)	128
Parking Assist (Intuitive Parking Assist)	378
Parking Assist (Rear View Monitor)	382
Power Outlet	360
Power Seat (Driver's Seat w/ Seat Position Memory)	334
Power Seat (Driver's Seat w/o Seat Position Memory)	340
Power Seat (Front Passenger's Seat w/ Seat Position Memory)	342
Power Seat (Front Passenger's Seat w/o Seat Position Memory)	346
Power Source	74
Power Tilt and Power Telescopic	308
Power Window	212
Pre-Collision System	298
Rear Fog Light	176
Rear Sunshade	318

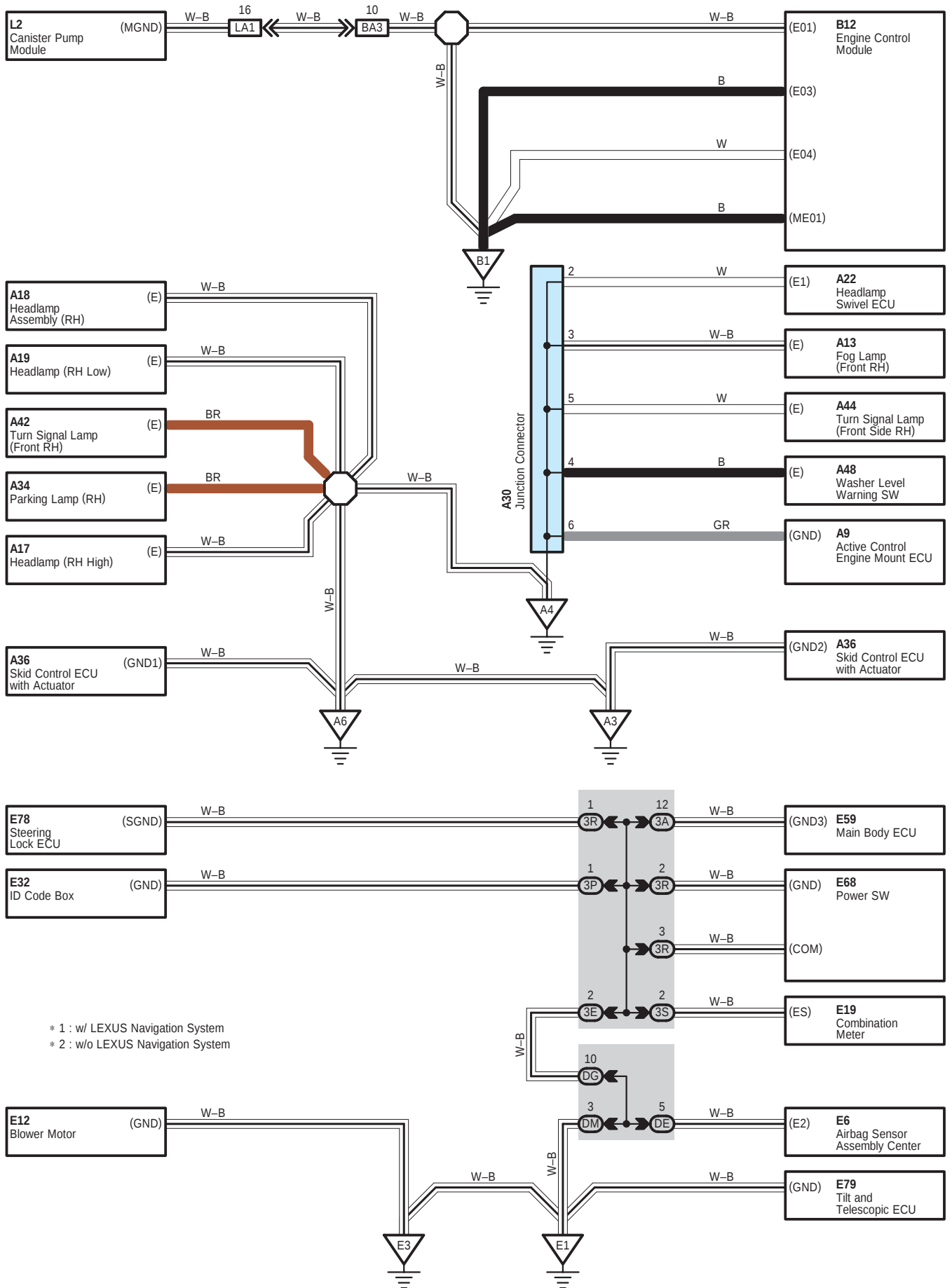
	Page
Rear Window Defogger	372
Remote Control Mirror	364
Seat Belt Warning	330
Seat Heater	348
Shift Lock	316
Sliding Roof	312
Smart Access System with Push-Button Start	80
* Engine Immobiliser	
* Push-Button Start	
* Steering Lock	
* Wireless Door Lock Control	
SRS	289
Stop Light	164
Taillight	158
Theft Deterrent	226
Tire Pressure Warning System	304
TRAC	280
Turn Signal and Hazard Warning Light	146
VSC	280
Wiper and Washer (w/ Auto Wiper System)	202
Wiper and Washer (w/o Auto Wiper System)	208

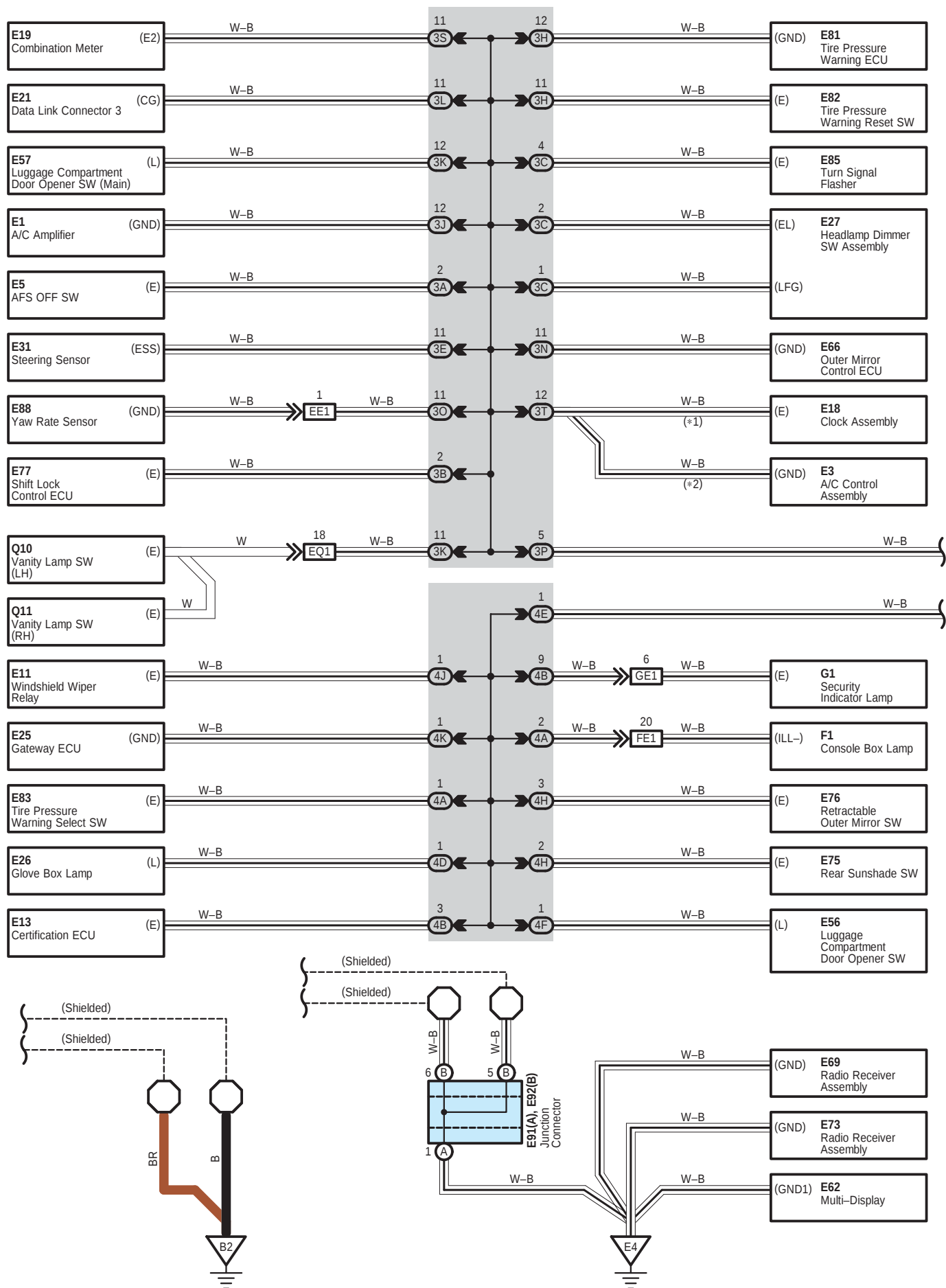
I GROUND POINT



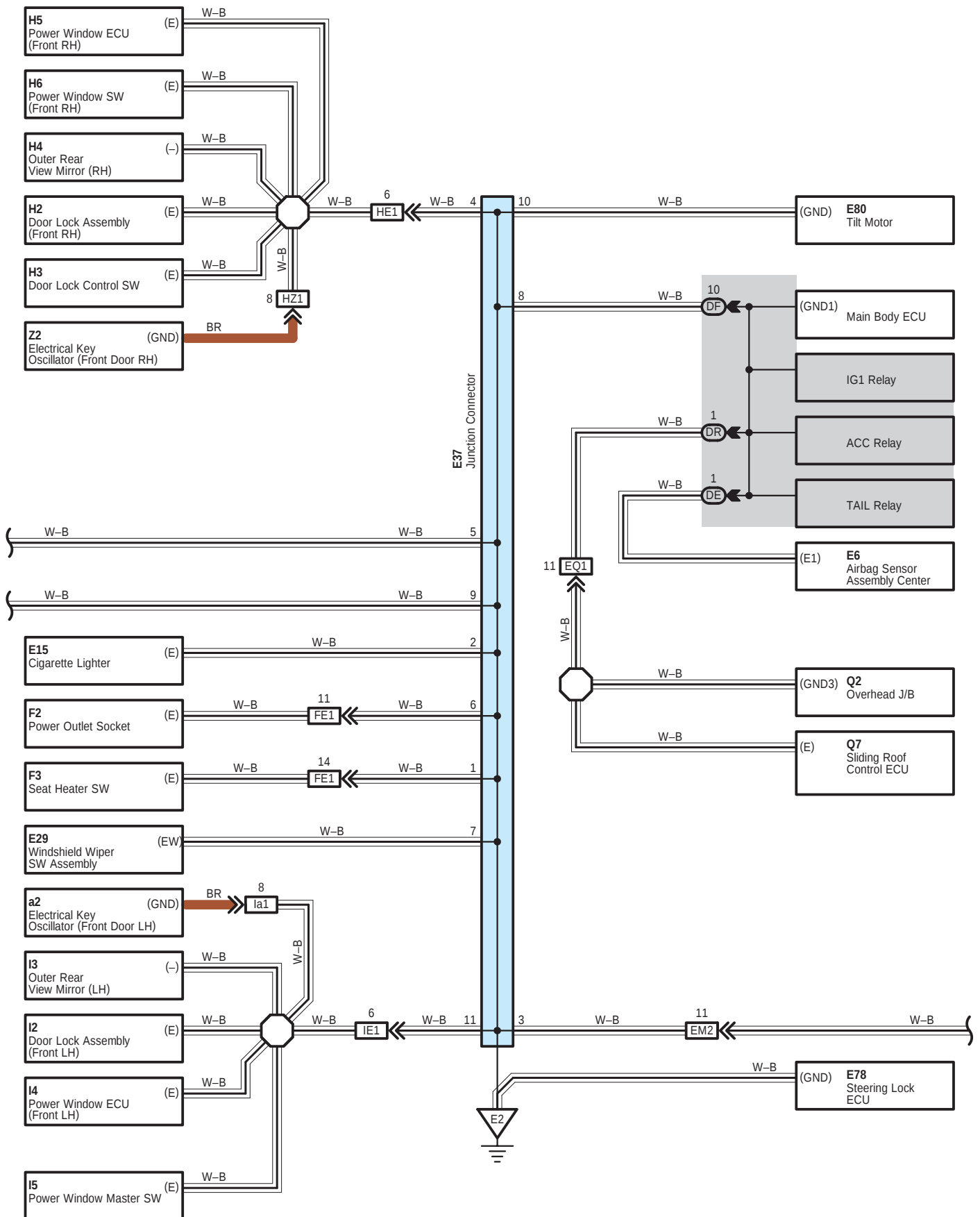


I GROUND POINT

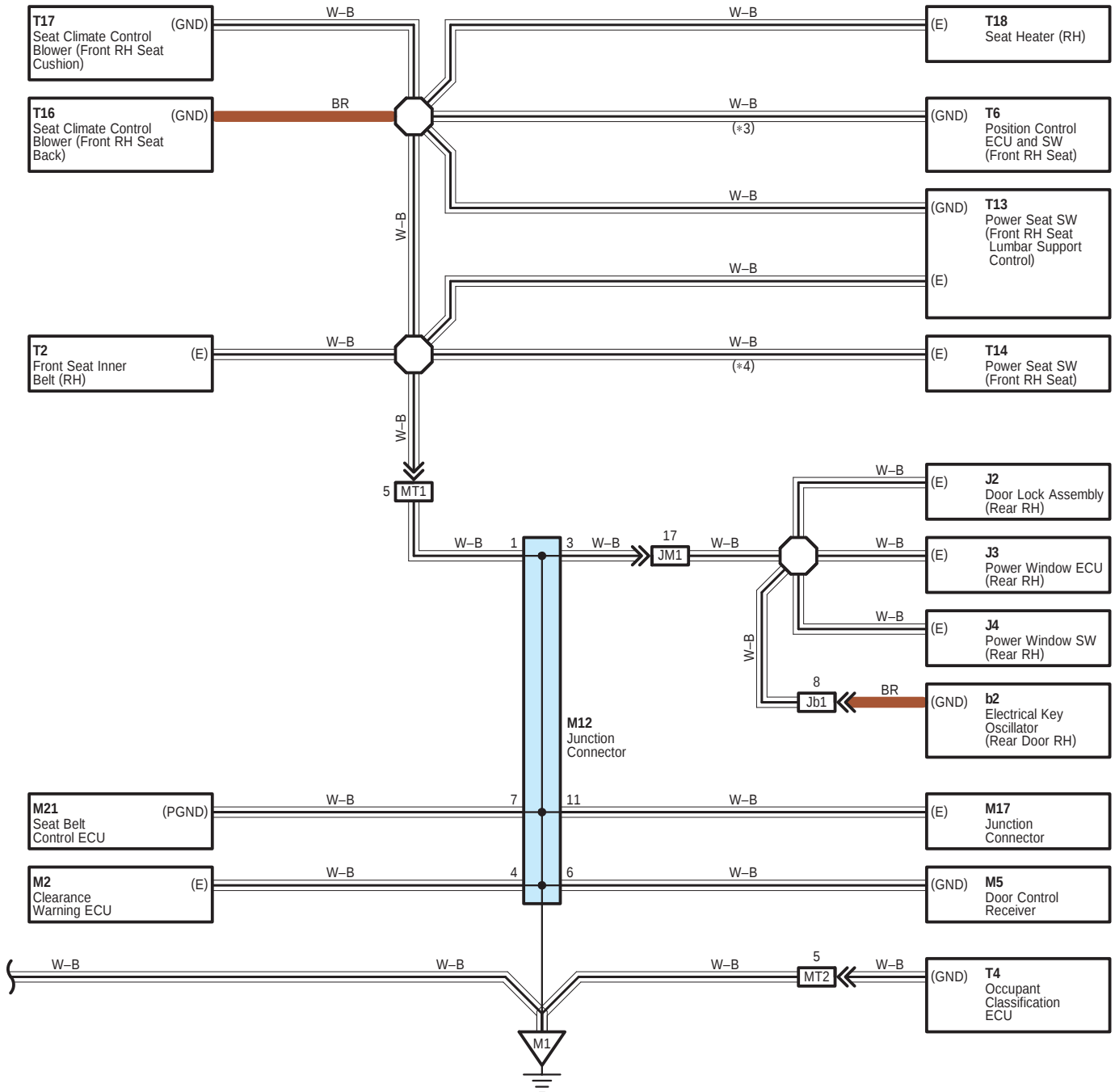




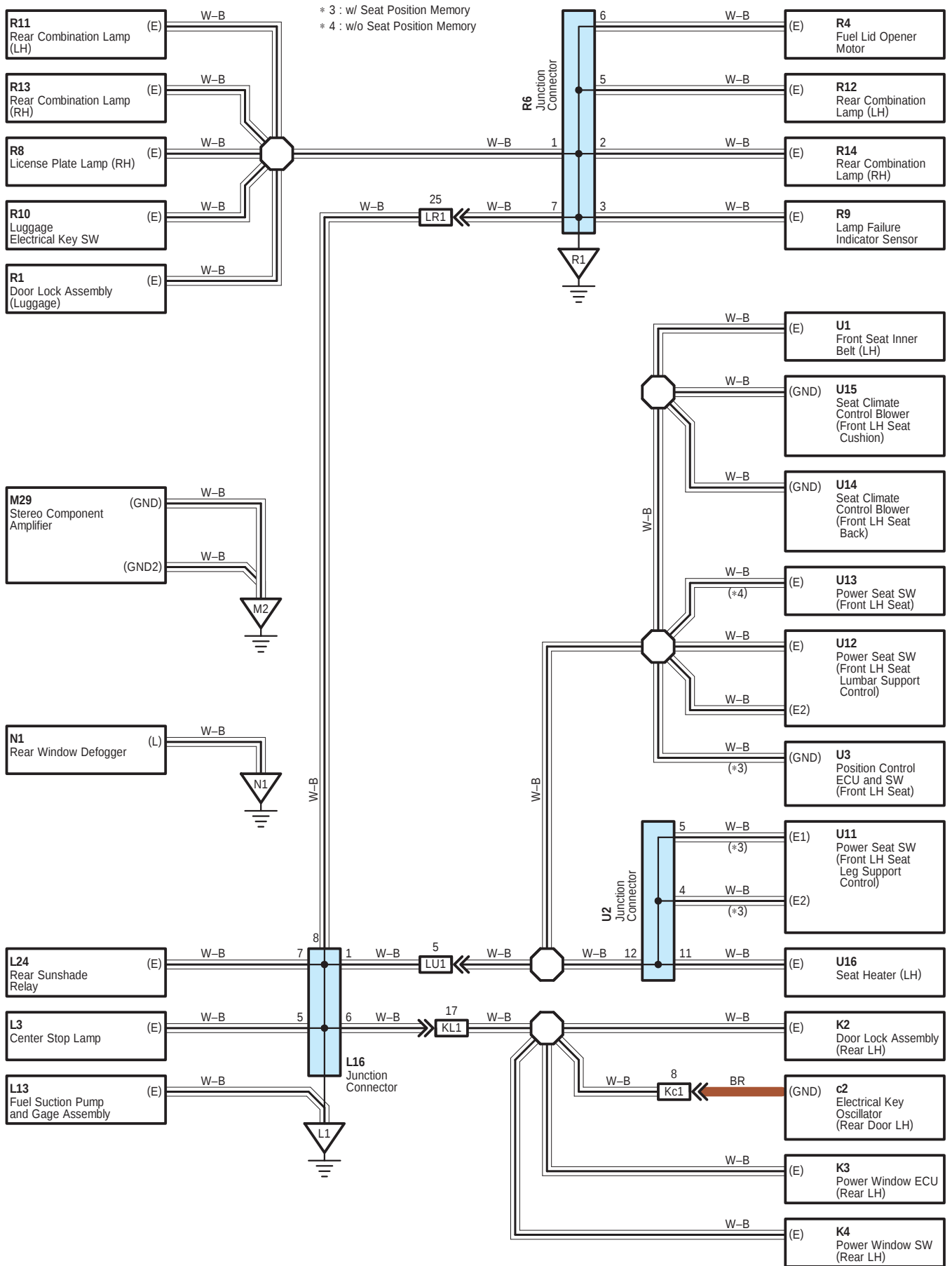
I GROUND POINT



* 3 : w/ Seat Position Memory
 * 4 : w/o Seat Position Memory



I GROUND POINT



 : Parts Location

Code		See Page	Code		See Page	Code		See Page
A27	A	60	B32	57		L16	62	
A28	B	60	E37	58		M12	62	
A29		54	E91	A	59	R6	65	
A30		54	E92	B	59	U2	66	

 : Relay Blocks

Code	See Page	Relay Blocks (Relay Block Location)
1	22	Engine Room R/B (Engine Compartment Left)

 : Junction Block and Wire Harness Connector

Code	See Page	Junction Block and Wire Harness (Connector Location)
1E	24	Engine Room Main Wire and Engine Room J/B (Engine Compartment Left)
3A	36	Instrument Panel Wire and J/B No.3 (Instrument Panel Left)
3B		
3C		
3D		
3E		
3H		
3J		
3K		
3L		
3N		
3O		
3P		
3R		
3S		
3T		
3U		
4A	42	Instrument Panel Wire and J/B No.4 (Instrument Panel Right)
4B		
4D		
4E		
4F		
4H		
4I		
4J		
4K		
4L		
DE	30	Instrument Panel Wire and Instrument Panel J/B (Lower Finish Panel)
DF		
DG	31	
DM		
DR	30	

I GROUND POINT

 : Connector Joining Wire Harness and Wire Harness

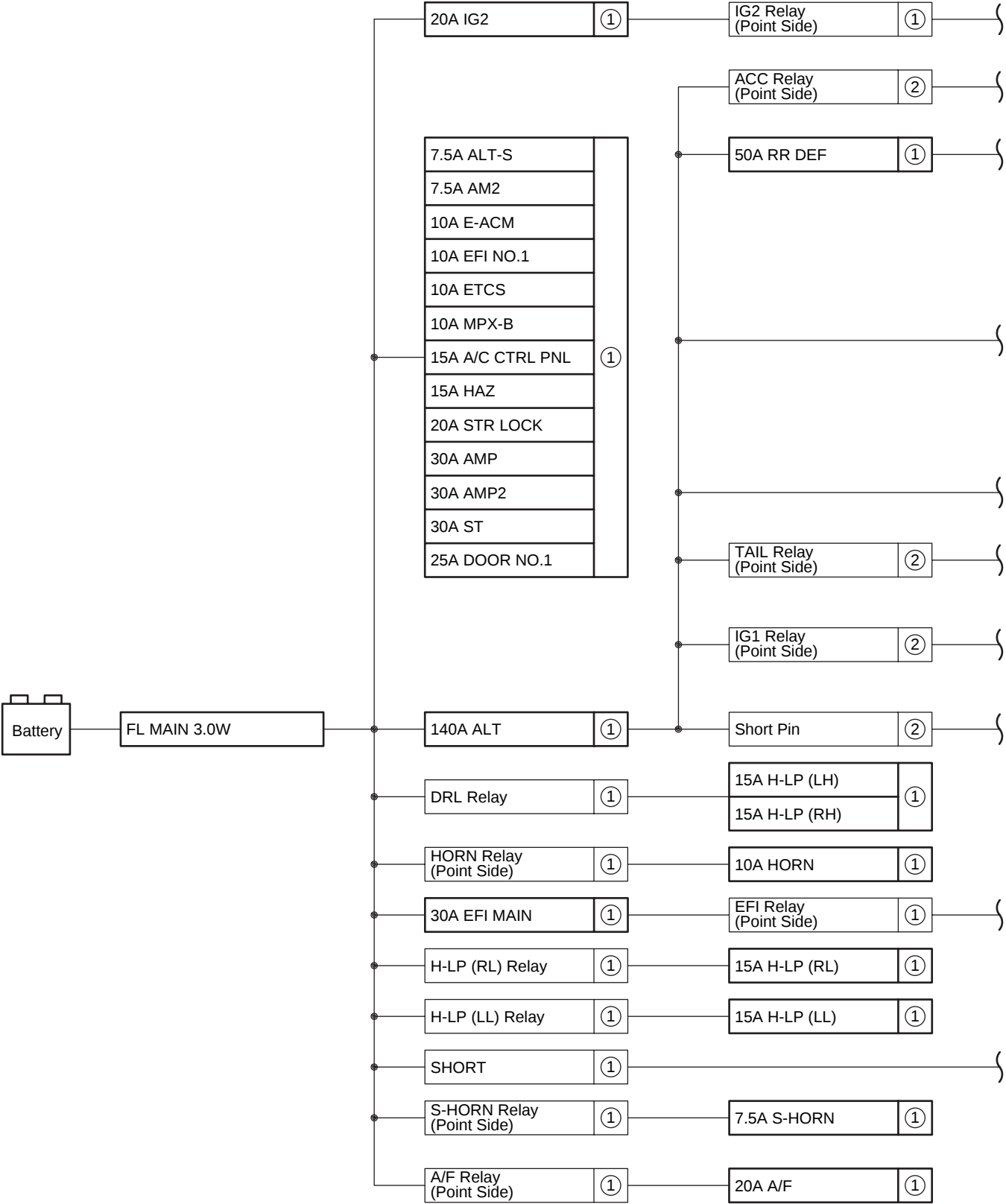
Code	See Page	Joining Wire Harness and Wire Harness (Connector Location)
BA3	68	Engine Wire and Engine Room Main Wire (Inside of the Engine Room R/B and Engine Room J/B)
BA4		
EA1	69	Instrument Panel Wire and Engine Room Main Wire (Left Kick Panel)
EE1	69	Instrument Panel Wire and Instrument Panel Wire (Near the Shift Lever)
EM2	69	Instrument Panel Wire and Floor No.2 Wire (Right Kick Panel)
EQ1	69	Instrument Panel Wire and Roof Wire (Front Pillar LH)
FE1	69	Instrument Panel No.2 Wire and Instrument Panel Wire (Under the Console Box)
GE1	69	Instrument Panel No.3 Wire and Instrument Panel Wire (Instrument Panel Center)
HE1	69	Front Door RH Wire and Instrument Panel Wire (Right Kick Panel)
HZ1	70	Front Door RH Wire and Electrical Key Wire Harness Front RH (Front Door Inner Panel RH)
IE1	69	Front Door LH Wire and Instrument Panel Wire (Left Kick Panel)
Ia1	70	Front Door LH Wire and Electrical Key Wire Harness Front LH (Front Door Inner Panel LH)
JM1	70	Rear Door No.1 Wire and Floor No.2 Wire (Center Pillar RH)
Jb1	70	Rear Door No.1 Wire and Electrical Key Wire Harness Rear RH (Rear Door Inner Panel RH)
KL1	70	Rear Door No.2 Wire and Floor Wire (Center Pillar LH)
Kc1	70	Rear Door No.2 Wire and Electrical Key Wire Harness Rear LH (Rear Door Inner Panel LH)
LA1	69	Floor Wire and Engine Room Main Wire (Cowl Side Left)
LR1	70	Floor Wire and Luggage Room Wire (Roof Side Rear Inner Panel LH)
LU1	71	Floor Wire and Front Seat LH Wire (Under the Front LH Seat)
MT1	71	Floor No.2 Wire and Front Seat RH Wire (Under the Front RH Seat)
MT2		

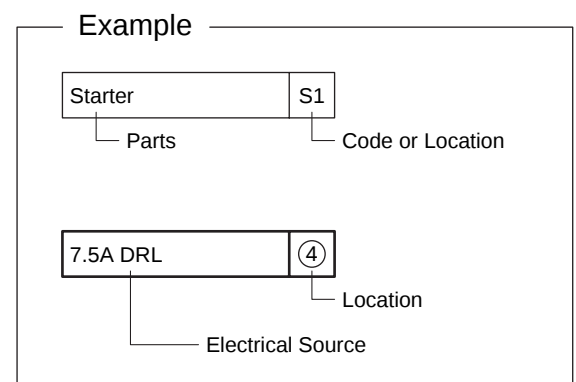
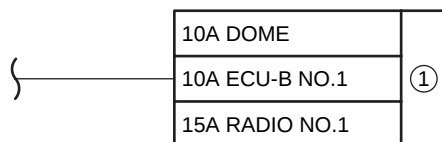
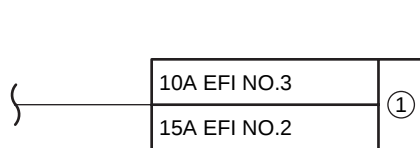
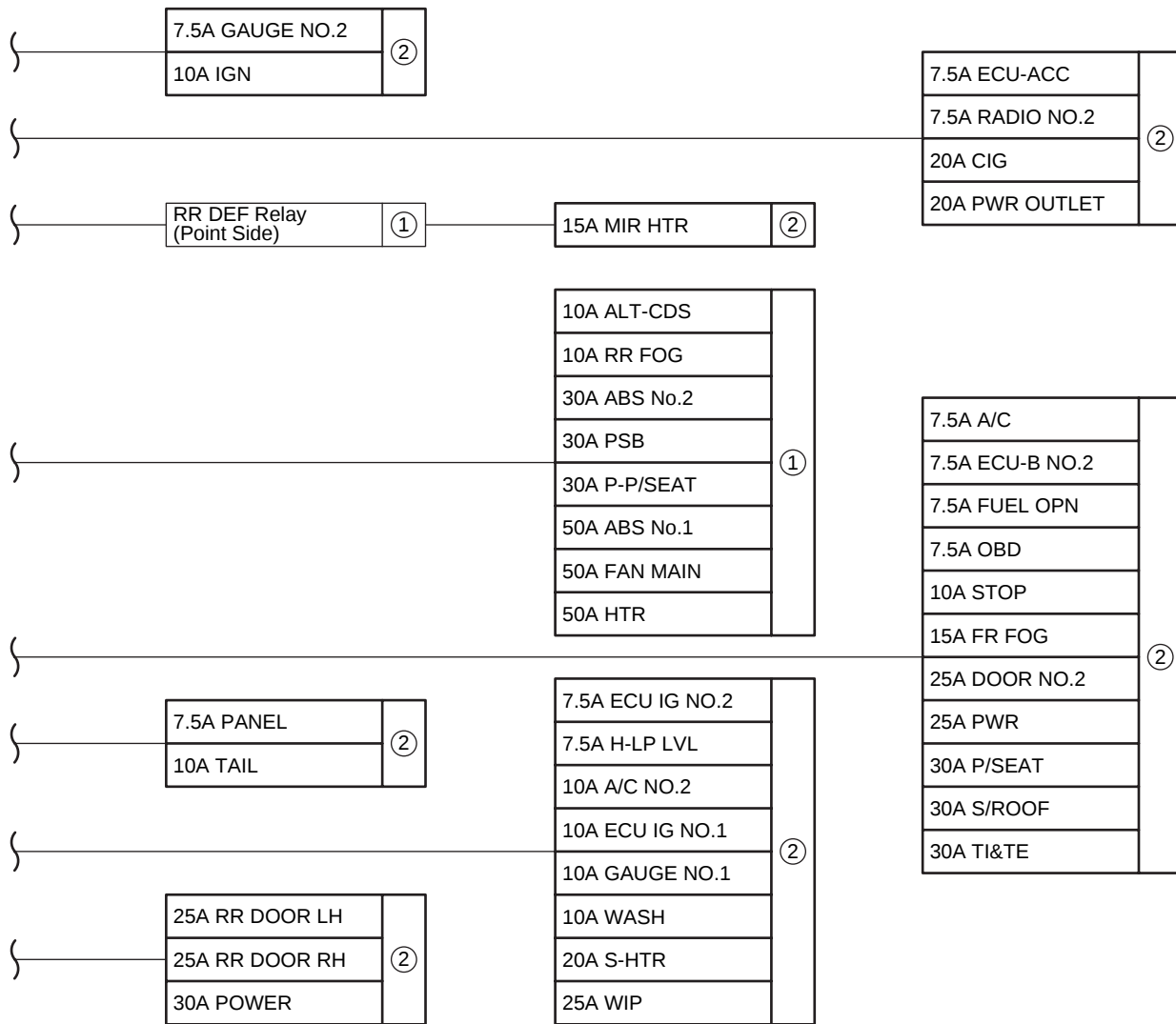
 : Ground Points

Code	See Page	Ground Points Location
A1	68	Front Left Fender Apron
A2		
A3	68	Front Right Fender Apron
A4		
A5	69	Cowl Side Left
A6	69	Cowl Side Right
B1	68	Left Side of the Cylinder Head
B2	68	Left Side of the Cylinder Block
B3	68	Right Side of the Cylinder Block
E1	69	Left Side of the Instrument Panel Reinforcement
E2	69	Instrument Panel Brace LH
E3	69	Right Side of the Instrument Panel Reinforcement
E4	69	Instrument Panel Brace RH
L1	70	Rear Pillar LH
M1	70	Roof Side Rear Inner Panel RH
M2		
N1	70	Rear Pillar RH
R1	70	Roof Side Rear Inner Panel LH

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.





J POWER SOURCE (Current Flow Chart)

Engine Room R/B and Engine Room J/B (See Page 22)

Fuse		System	Page
7.5A	ALT-S	Charging	102
7.5A	AM2	Electronically Controlled Transmission and A/T Indicator	238
		Engine Control	108
		Ignition	104
		Smart Access System with Push-Button Start	80
7.5A	S-HORN	Smart Access System with Push-Button Start	80
		Theft Deterrent	226
10A	DOME	ABS, TRAC and VSC	280
		Adaptive Front-Lighting System	190
		Air Conditioning	404
		Audio System, LEXUS Navigation System and Parking Assist (Rear View Monitor)	382
		Clock (w/ LEXUS Navigation System)	376
		Combination Meter	392
		Cooling Fan	400
		Cruise Control	268
		Door Lock Control	218
		Dynamic Radar Cruise Control	250
		Electronically Controlled Transmission and A/T Indicator	238
		Engine Control	108
		Front Fog Light	170
		Garage Door Opener	356
		Headlight	132
		Headlight Beam Level Control (w/o Adaptive Front-Lighting System)	196
		Illumination	150
		Interior Light	138
		Parking Assist (Intuitive Parking Assist)	378
		Pre-Collision System	298
		Rear Fog Light	176
		Rear Sunshade	318
		Rear Window Defogger and Mirror Heater	372
		Seat Belt Warning	330
		Sliding Roof	312
		Smart Access System with Push-Button Start	80
		SRS	289
		Stop Light	164
		Taillight	158
		Theft Deterrent	226
		Tire Pressure Warning System	304
		Wiper and Washer (w/ Auto Wiper System)	202
10A	E-ACM	Engine Control	108
10A	ECU-B NO.1	ABS, TRAC and VSC	280
		Multiplex Communication System (CAN)	128

* These are the page numbers of the first page on which the related system is shown.

Fuse		System	Page
10A	ECU-B NO.1	Power Seat (Driver's Seat w/ Seat Position Memory)	334
		Power Seat (Front Passenger's Seat w/ Seat Position Memory)	342
		Power Tilt and Power Telescopic	308
		Remote Control Mirror	364
10A	EFI NO.1	Cruise Control	268
		Dynamic Radar Cruise Control	250
		Electronically Controlled Transmission and A/T Indicator	238
		Engine Control	108
		Smart Access System with Push-Button Start	80
		Theft Deterrent	226
10A	EFI NO.3	Engine Control	108
10A	ETCS	Cruise Control	268
		Dynamic Radar Cruise Control	250
		Electronically Controlled Transmission and A/T Indicator	238
		Engine Control	108
10A	HORN	Horn	362
		Smart Access System with Push-Button Start	80
		Theft Deterrent	226
10A	MPX-B	ABS, TRAC and VSC	280
		Adaptive Front-Lighting System	190
		Air Conditioning	404
		Audio System, LEXUS Navigation System and Parking Assist (Rear View Monitor)	382
		Combination Meter	392
		Cooling Fan	400
		Cruise Control	268
		Door Lock Control	218
		Dynamic Radar Cruise Control	250
		Electronically Controlled Transmission and A/T Indicator	238
		Engine Control	108
		Front Fog Light	170
		Headlight	132
		Headlight Beam Level Control (w/o Adaptive Front-Lighting System)	196
		Illumination	150
		Parking Assist (Intuitive Parking Assist)	378
		Pre-Collision System	298
		Rear Fog Light	176
		Rear Sunshade	318
		Rear Window Defogger and Mirror Heater	372
		Seat Belt Warning	330
		Sliding Roof	312
		Smart Access System with Push-Button Start	80
		SRS	289
		Stop Light	164

* 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
10A	MPX-B	Taillight	158
		Tire Pressure Warning System	304
		Wiper and Washer (w/ Auto Wiper System)	202
10A	RR FOG	Rear Fog Light	176
15A	A/C CTRL PNL	Air Conditioning	404
		Audio System, LEXUS Navigation System and Parking Assist (Rear View Monitor)	382
15A	EFI NO.2	Cruise Control	268
		Dynamic Radar Cruise Control	250
		Electronically Controlled Transmission and A/T Indicator	238
		Engine Control	108
15A	HAZ	Turn Signal and Hazard Warning Light	146
15A	H-LP (LH)	Headlight	132
15A	H-LP (LL)	Headlight	132
15A	H-LP (RH)	Headlight	132
15A	H-LP (RL)	Headlight	132
15A	RADIO NO.1	Audio System, LEXUS Navigation System and Parking Assist (Rear View Monitor)	382
20A	A/F	Engine Control	108
20A	IG2	Combination Meter	392
		Electronically Controlled Transmission and A/T Indicator	238
		Engine Control	108
		Ignition	104
		Smart Access System with Push-Button Start	80
20A	STR LOCK	Smart Access System with Push-Button Start	80
25A	DOOR NO.1	Automatic Light Control	182
		Door Lock Control	218
		Front Fog Light	170
		Headlight	132
		Illumination	150
		Interior Light	138
		Light Auto Turn Off System	186
		Luggage Compartment Door Opener	324
		Power Window	212
		Rear Fog Light	176
		Remote Control Mirror	364
		Smart Access System with Push-Button Start	80
		Taillight	158
		Theft Deterrent	226
30A	ABS No.2	ABS, TRAC and VSC	280
		Dynamic Radar Cruise Control	250
30A	AMP	Audio System, LEXUS Navigation System and Parking Assist (Rear View Monitor)	382

* These are the page numbers of the first page on which the related system is shown.

Fuse		System	Page
30A	AMP2	Audio System, LEXUS Navigation System and Parking Assist (Rear View Monitor)	382
30A	EFI MAIN	Cruise Control	268
		Dynamic Radar Cruise Control	250
		Electronically Controlled Transmission and A/T Indicator	238
		Engine Control	108
30A	P-P/SEAT	Power Seat (Front Passenger's Seat w/ Seat Position Memory)	342
		Power Seat (Front Passenger's Seat w/o Seat Position Memory)	346
30A	PSB	Pre-Collision System	298
30A	ST	Smart Access System with Push-Button Start	80
50A	ABS No.1	ABS, TRAC and VSC	280
		Dynamic Radar Cruise Control	250
50A	FAN MAIN	Cooling Fan	400
50A	HTR	Air Conditioning	404
50A	RR DEF	Rear Window Defogger and Mirror Heater	372
140A	ALT	Automatic Light Control	182
		Charging	102
		Front Fog Light	170
		Illumination	150
		Light Auto Turn Off System	186
		Rear Fog Light	176
		Smart Access System with Push-Button Start	80
		Taillight	158
		Theft Deterrent	226

Instrument Panel J/B (See Page 30)

Fuse		System	Page
7.5A	A/C	Air Conditioning	404
		Rear Window Defogger and Mirror Heater	372
7.5A	ECU IG NO.2	ABS, TRAC and VSC	280
		Adaptive Front-Lighting System	190
		Cruise Control	268
		Dynamic Radar Cruise Control	250
		Electronically Controlled Transmission and A/T Indicator	238
		Headlight Beam Level Control (w/o Adaptive Front-Lighting System)	196
		Pre-Collision System	298
		Shift Lock	316
7.5A	ECU-ACC	Stop Light	164
		Air Conditioning	404
		Automatic Light Control	182
		Clock (w/ LEXUS Navigation System)	376
		Door Lock Control	218
		Front Fog Light	170
		Headlight	132

* 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	ECU-ACC	Illumination	150
		Interior Light	138
		Light Auto Turn Off System	186
		Luggage Compartment Door Opener	324
		Power Window	212
		Rear Fog Light	176
		Remote Control Mirror	364
		Smart Access System with Push-Button Start	80
		Taillight	158
		Theft Deterrent	226
7.5A	ECU-B NO.2	Power Window	212
7.5A	FUEL OPN	Fuel Lid Opener	322
7.5A	GAUGE NO.2	ABS, TRAC and VSC	280
		Adaptive Front-Lighting System	190
		Air Conditioning	404
		Audio System, LEXUS Navigation System and Parking Assist (Rear View Monitor)	382
		Charging	102
		Combination Meter	392
		Cooling Fan	400
		Cruise Control	268
		Door Lock Control	218
		Dynamic Radar Cruise Control	250
		Electronically Controlled Transmission and A/T Indicator	238
		Engine Control	108
		Front Fog Light	170
		Headlight	132
		Headlight Beam Level Control (w/o Adaptive Front-Lighting System)	196
		Illumination	150
		Parking Assist (Intuitive Parking Assist)	378
		Pre-Collision System	298
		Rear Fog Light	176
		Rear Sunshade	318
		Rear Window Defogger and Mirror Heater	372
		Seat Belt Warning	330
		Sliding Roof	312
		Smart Access System with Push-Button Start	80
		SRS	289
		Stop Light	164
		Taillight	158
		Tire Pressure Warning System	304
		Wiper and Washer (w/ Auto Wiper System)	202
7.5A	H-LP LVL	Adaptive Front-Lighting System	190
		Headlight Beam Level Control (w/o Adaptive Front-Lighting System)	196

* These are the page numbers of the first page on which the related system is shown.

Fuse		System	Page
7.5A	OBD	Data Link Connector 3	126
7.5A	PANEL	Illumination	150
7.5A	RADIO NO.2	Audio System, LEXUS Navigation System and Parking Assist (Rear View Monitor)	382
10A	A/C NO.2	Air Conditioning	404
		Rear Window Defogger and Mirror Heater	372
		Seat Belt Warning	330
10A	ECU IG NO.1	Air Conditioning	404
		Audio System, LEXUS Navigation System and Parking Assist (Rear View Monitor)	382
		Automatic Glare-Resistant EC Mirror and Compass	354
		Automatic Light Control	182
		Climate Control Seat and Seat Heater	348
		Clock (w/ LEXUS Navigation System)	376
		Cooling Fan	400
		Door Lock Control	218
		Electric Tension Reducer	328
		Front Fog Light	170
		Headlight	132
		Illumination	150
		Interior Light	138
		Light Auto Turn Off System	186
		Luggage Compartment Door Opener	324
		Multiplex Communication System (CAN)	128
		Parking Assist (Intuitive Parking Assist)	378
		Power Seat (Driver's Seat w/ Seat Position Memory)	334
		Power Seat (Front Passenger's Seat w/ Seat Position Memory)	342
		Power Tilt and Power Telescopic	308
		Power Window	212
		Rear Fog Light	176
		Remote Control Mirror	364
		Seat Belt Warning	330
		Sliding Roof	312
		Smart Access System with Push-Button Start	80
		Taillight	158
		Theft Deterrent	226
		Tire Pressure Warning System	304
		Wiper and Washer (w/ Auto Wiper System)	202
10A	GAUGE NO.1	ABS, TRAC and VSC	280
		Audio System, LEXUS Navigation System and Parking Assist (Rear View Monitor)	382
		Back-Up Light	168
		Charging	102
		Cruise Control	268
		Door Lock Control	218

* These are the page numbers of the first page on which the related system is shown.

J POWER SOURCE (Current Flow Chart)

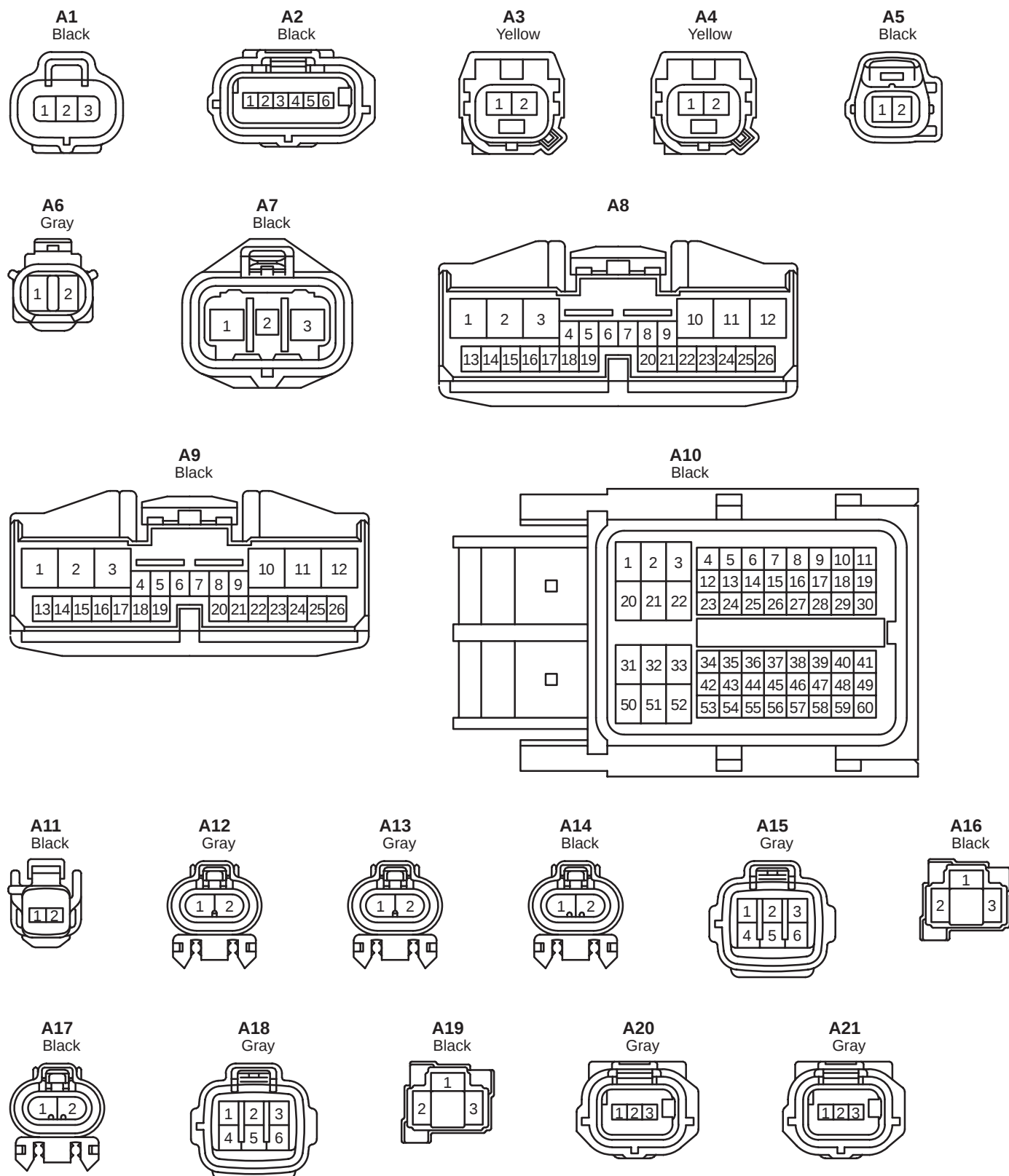
Fuse		System	Page
10A	GAUGE NO.1	Dynamic Radar Cruise Control	250
		Electronically Controlled Transmission and A/T Indicator	238
		Parking Assist (Intuitive Parking Assist)	378
		Power Seat (Driver's Seat w/ Seat Position Memory)	334
		Power Seat (Front Passenger's Seat w/ Seat Position Memory)	342
		Power Tilt and Power Telescopic	308
		Rear Sunshade	318
		Remote Control Mirror	364
		Shift Lock	316
		Stop Light	164
		Taillight	158
		Turn Signal and Hazard Warning Light	146
10A	IGN	Cruise Control	268
		Dynamic Radar Cruise Control	250
		Electronically Controlled Transmission and A/T Indicator	238
		Engine Control	108
		Multiplex Communication System (CAN)	128
		Seat Belt Warning	330
		Smart Access System with Push-Button Start	80
		SRS	289
		Theft Deterrent	226
10A	STOP	ABS, TRAC and VSC	280
		Cruise Control	268
		Dynamic Radar Cruise Control	250
		Electronically Controlled Transmission and A/T Indicator	238
		Engine Control	108
		Shift Lock	316
		Smart Access System with Push-Button Start	80
		Stop Light	164
10A	TAIL	Front Fog Light	170
		Rear Fog Light	176
		Taillight	158
10A	WASH	Wiper and Washer (w/ Auto Wiper System)	202
		Wiper and Washer (w/o Auto Wiper System)	208
15A	FR FOG	Front Fog Light	170
15A	MIR HTR	Rear Window Defogger and Mirror Heater	372
20A	CIG	Cigarette Lighter	358
20A	PWR OUTLET	Power Outlet	360
20A	S-HTR	Climate Control Seat and Seat Heater	348
25A	DOOR NO.2	Automatic Light Control	182
		Door Lock Control	218
		Front Fog Light	170
		Headlight	132
		Illumination	150

* These are the page numbers of the first page on which the related system is shown.

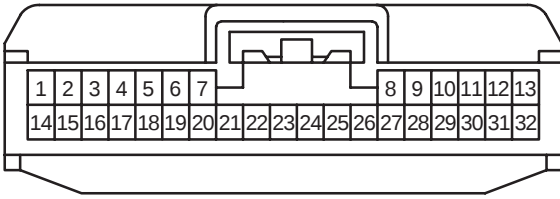
Fuse		System	Page
25A	DOOR NO.2	Interior Light	138
		Light Auto Turn Off System	186
		Luggage Compartment Door Opener	324
		Power Window	212
		Rear Fog Light	176
		Remote Control Mirror	364
		Smart Access System with Push-Button Start	80
		Taillight	158
		Theft Deterrent	226
25A	PWR	Power Window	212
25A	RR DOOR LH	Power Window	212
25A	RR DOOR RH	Power Window	212
25A	WIP	Wiper and Washer (w/ Auto Wiper System)	202
		Wiper and Washer (w/o Auto Wiper System)	208
30A	POWER	Power Window	212
30A	P/SEAT	Power Seat (Driver's Seat w/ Seat Position Memory)	334
		Power Seat (Driver's Seat w/o Seat Position Memory)	340
30A	S/ROOF	Sliding Roof	312
30A	TI&TE	Power Tilt and Power Telescopic	308

* These are the page numbers of the first page on which the related system is shown.

K CONNECTOR LIST



A22



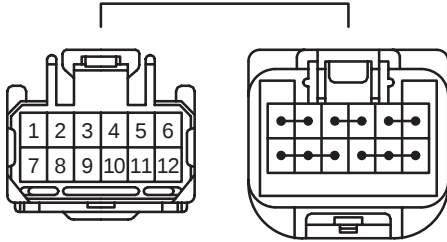
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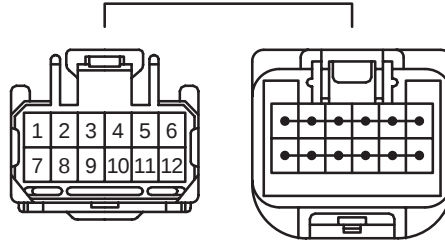
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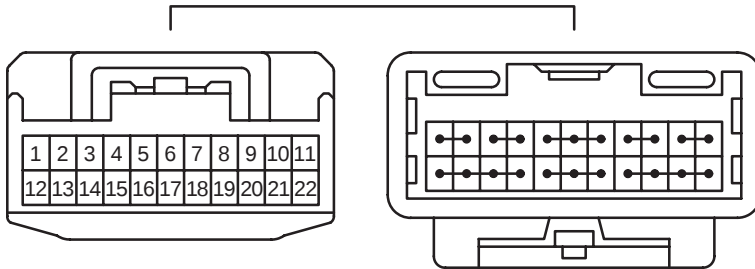
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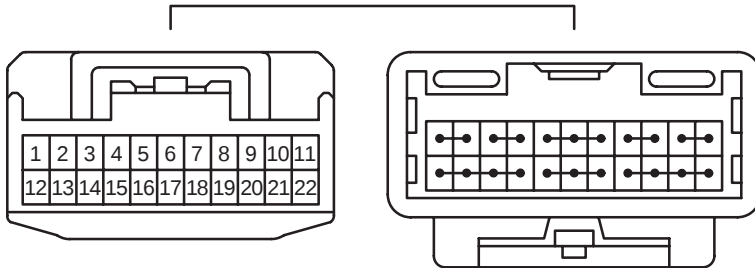
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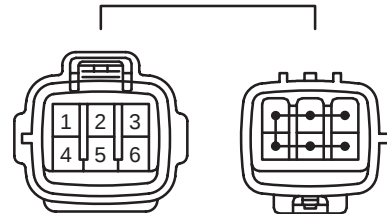
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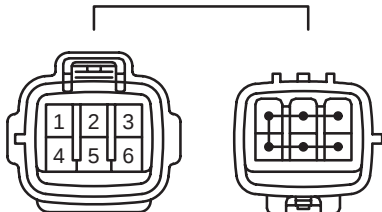
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A29
Gray



A30
Gray



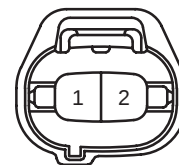
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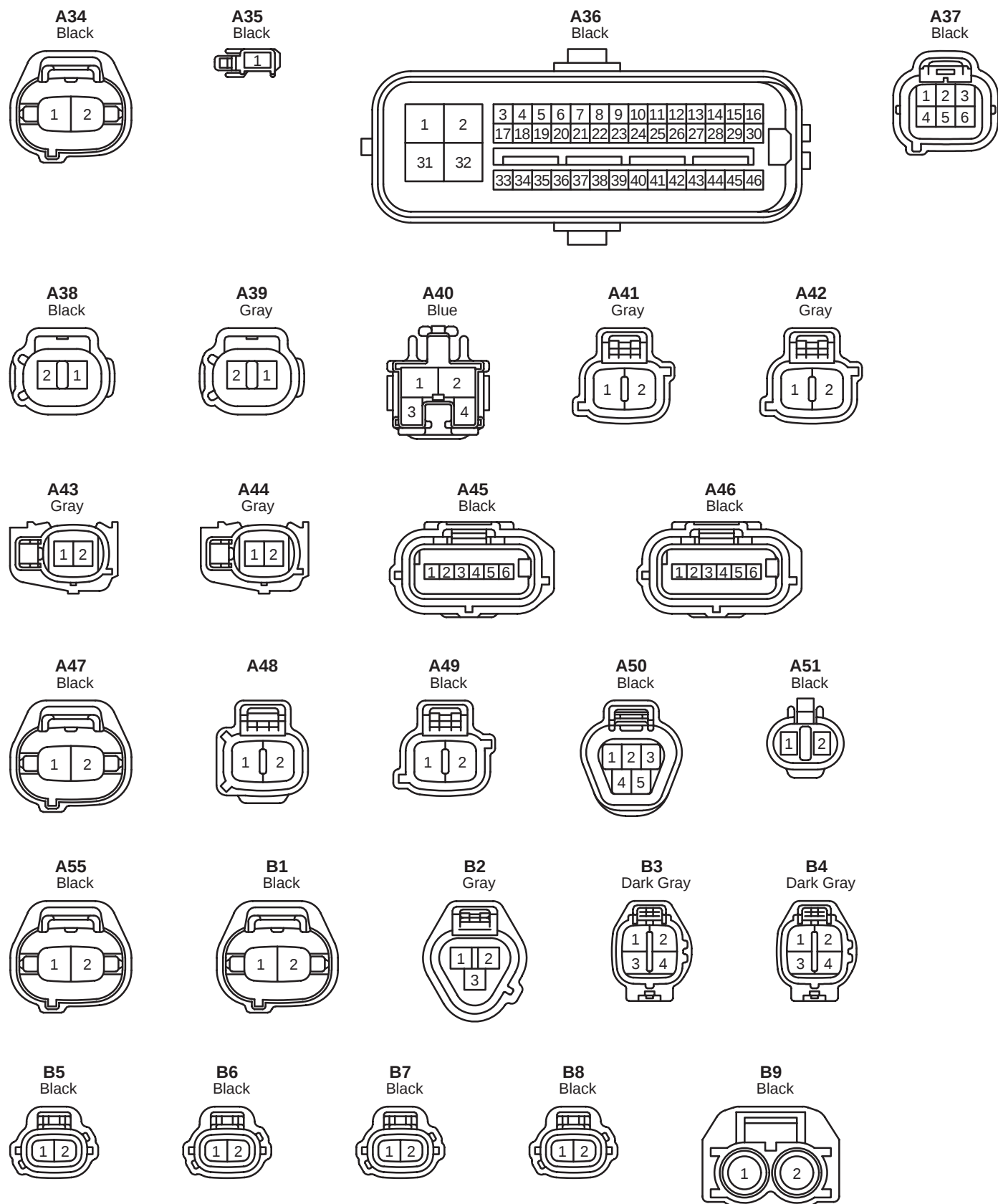
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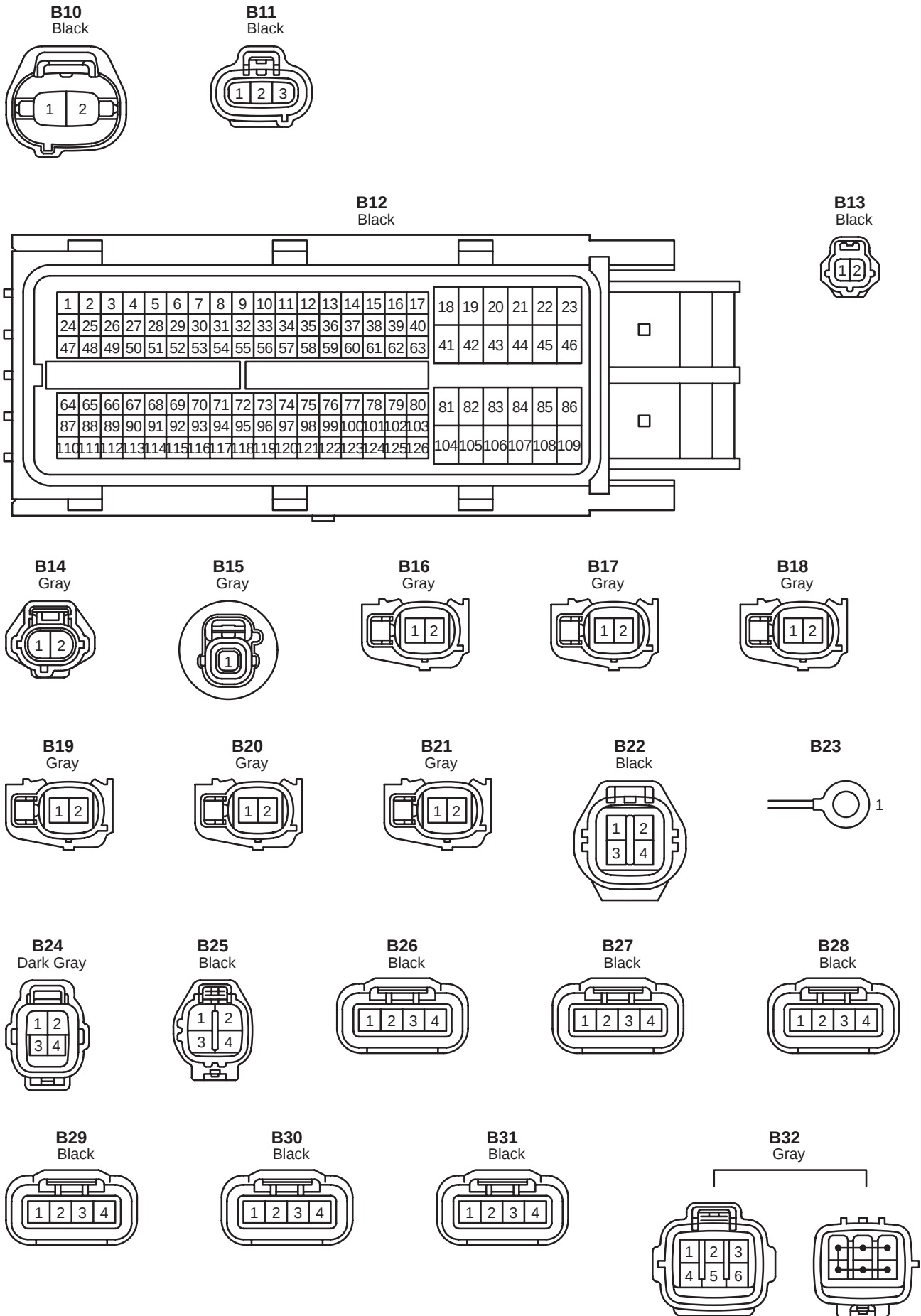


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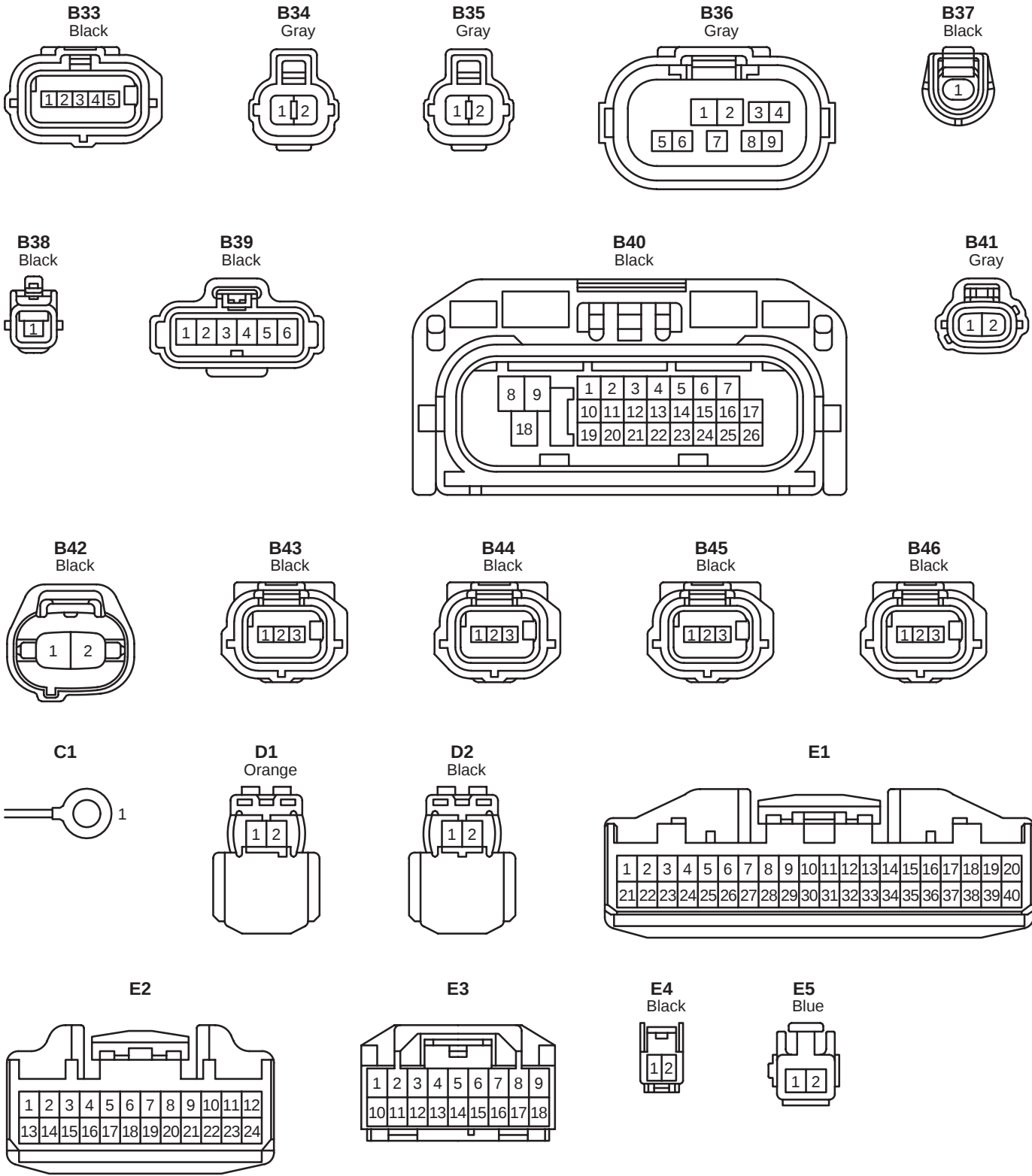


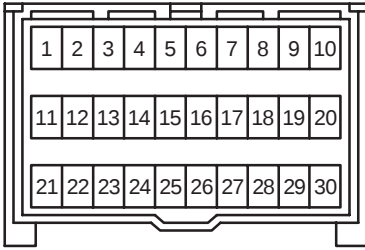
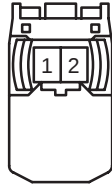
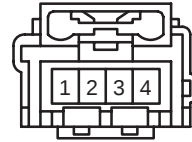
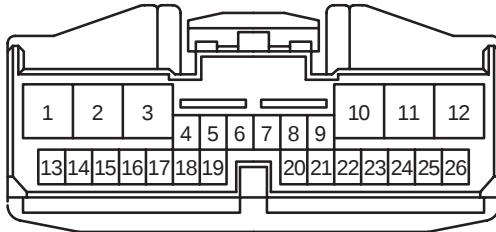
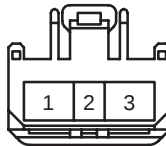
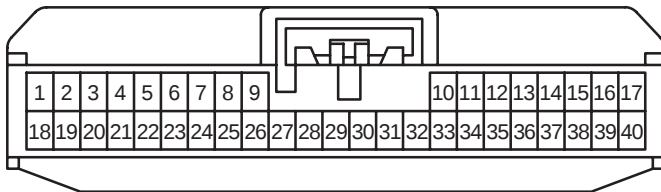
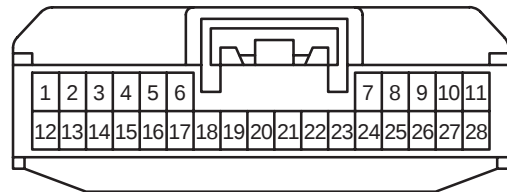
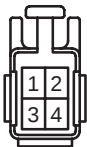
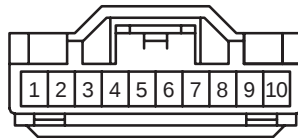
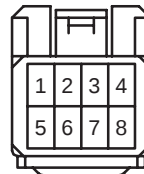
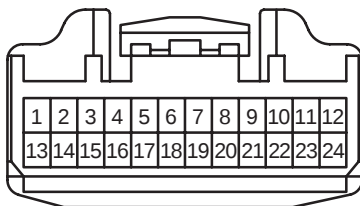
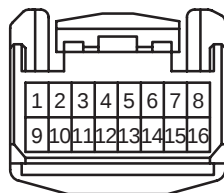
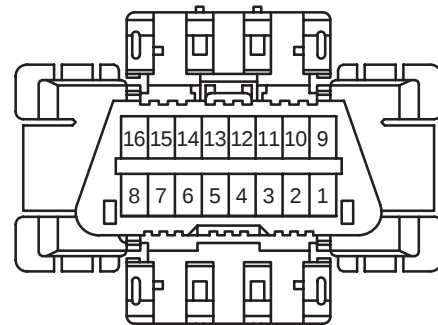
K CONNECTOR LIST



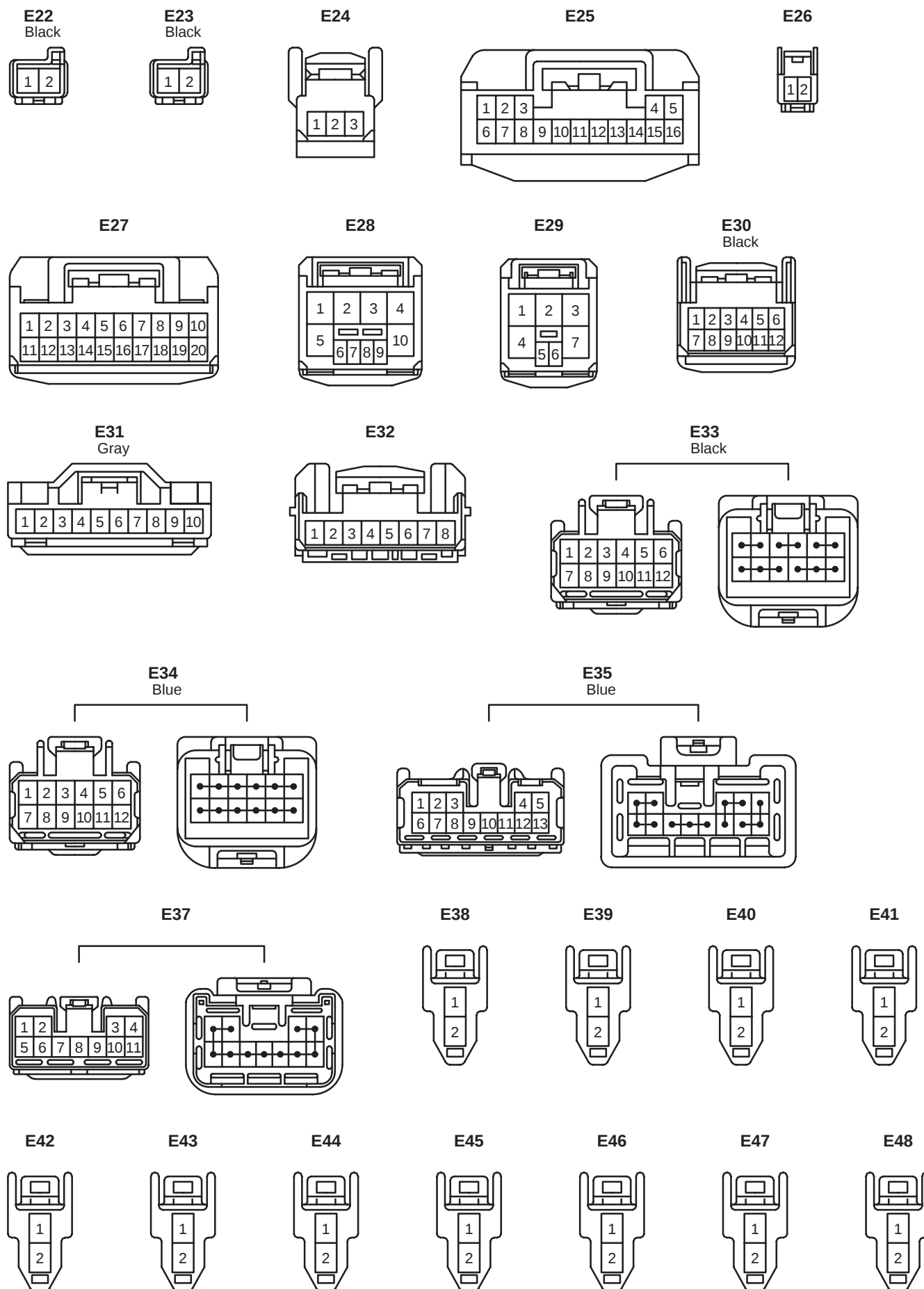


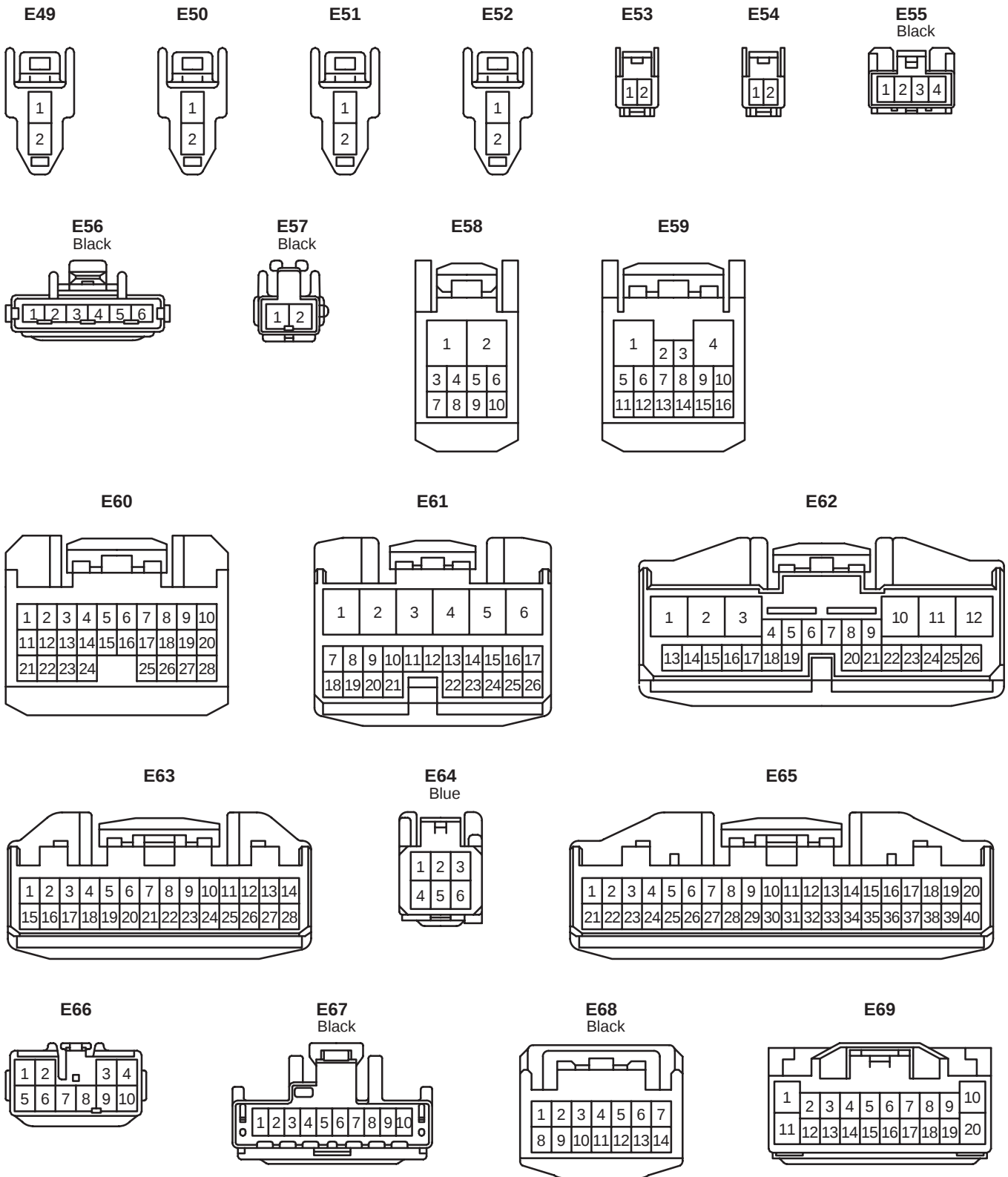
K CONNECTOR LIST



E6
Yellow**E7**
Black**E8**
Black**E9**
Yellow**E10****E11****E12**
Black**E13****E14****E15****E16**
Black**E17**
Black**E18****E19****E20****E21**
Black

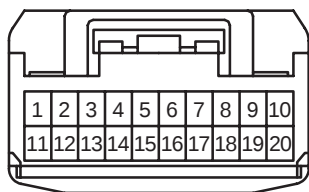
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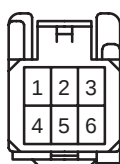


K CONNECTOR LIST

E70



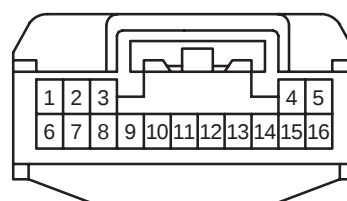
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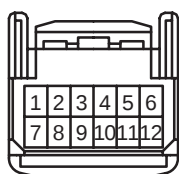
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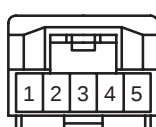
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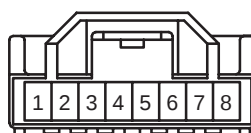
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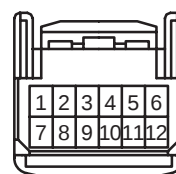
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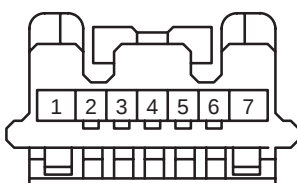
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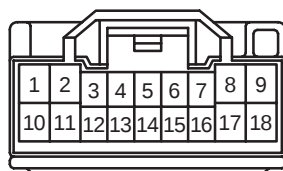
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E78
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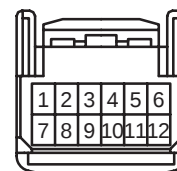
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E80



E81



E82
Black



E83
Blue



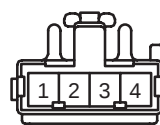
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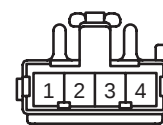
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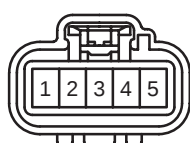
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E87



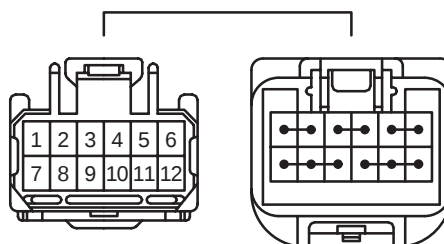
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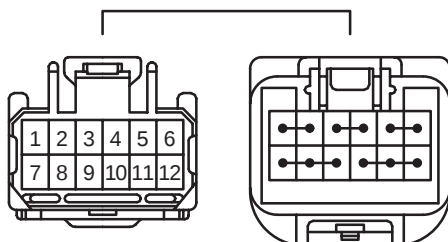
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E91
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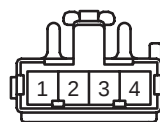
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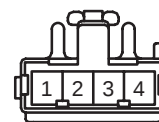
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E94

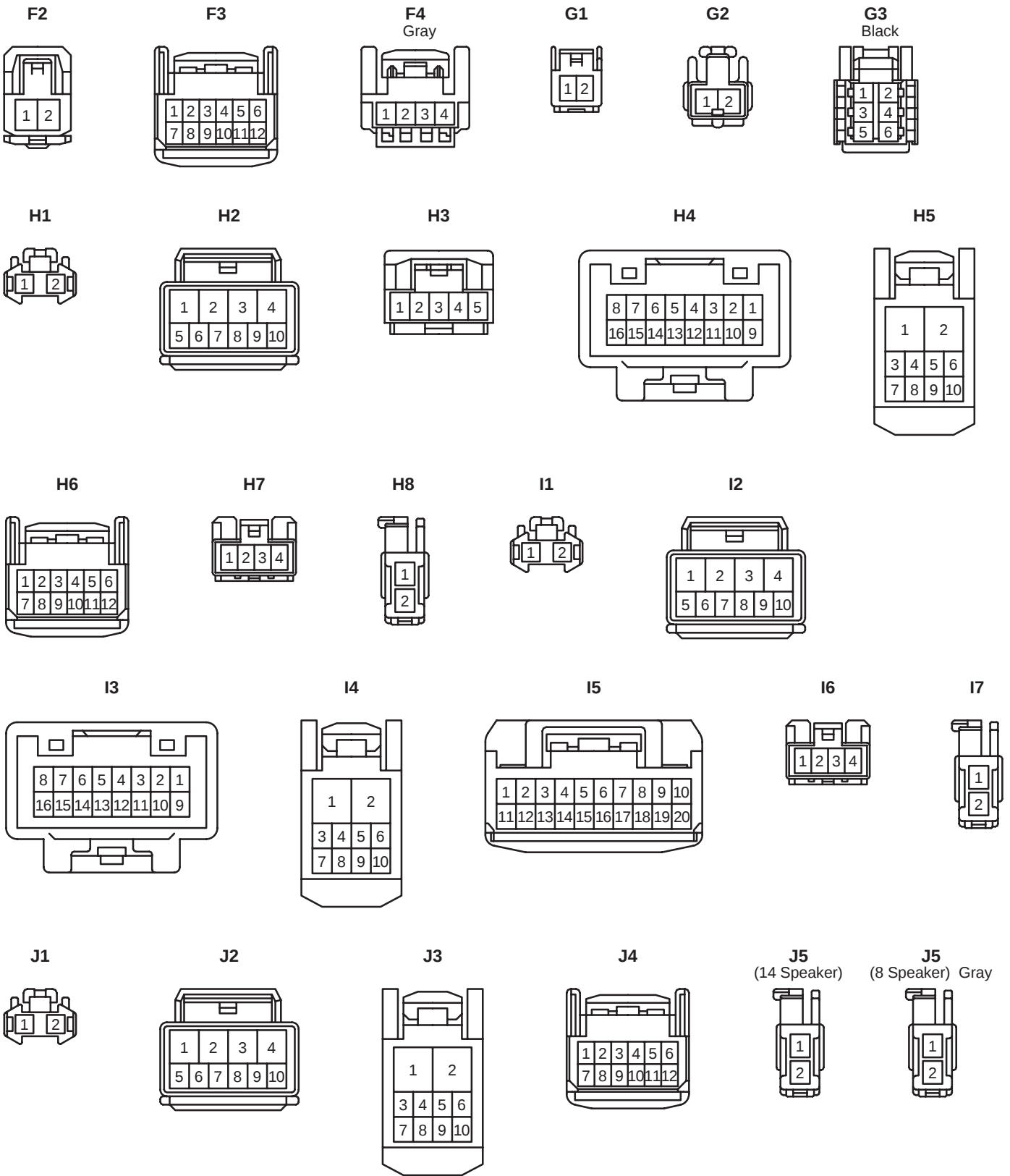


E95



F1



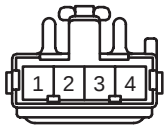


K CONNECTOR LIST

*1 : w/ Rear Side Airbag

*2 : w/o Rear Side Airbag

J6



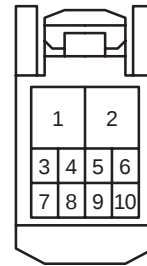
K1



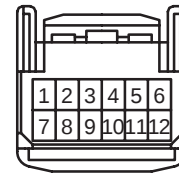
K2



K3



K4



K5

(14 Speaker)

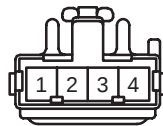


K5

(8 Speaker) Gray

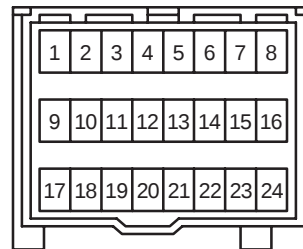


K6



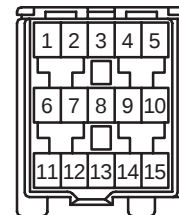
L1

(*1) Yellow



L1

(*2) Yellow



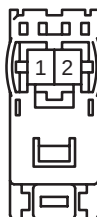
L2
Black



L3



L4
Black



L5
Black



L6
Black



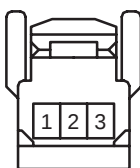
L7



L8



L9



L10



L11



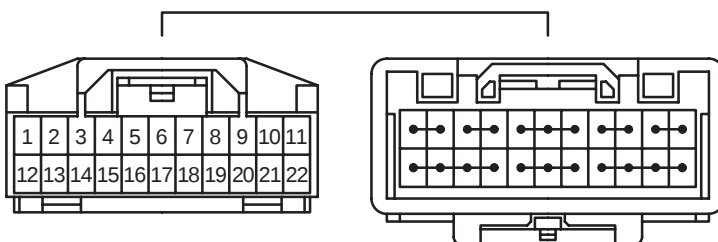
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L13

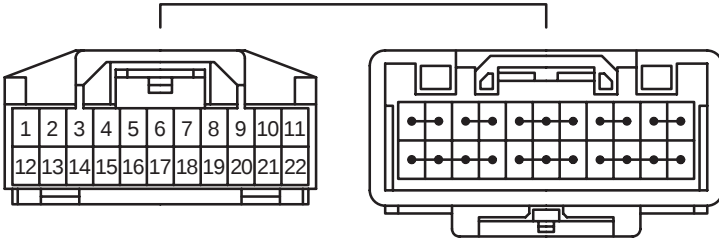
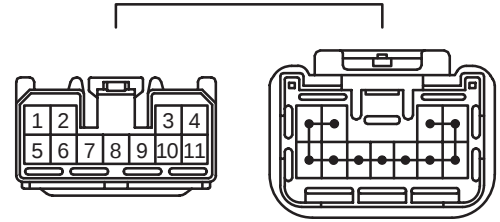
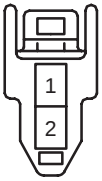
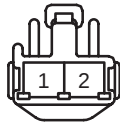
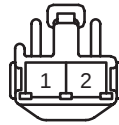
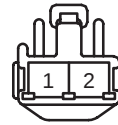
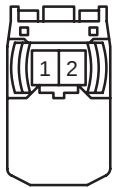
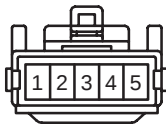
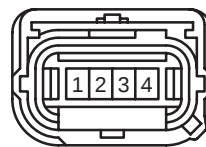
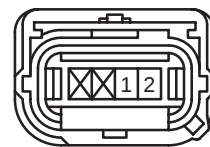
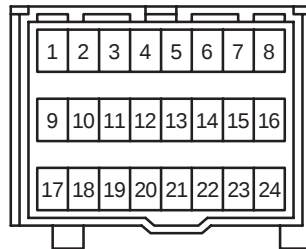
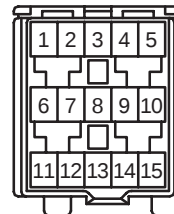
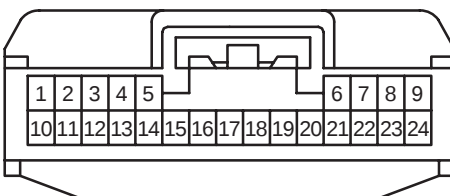
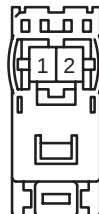


L14

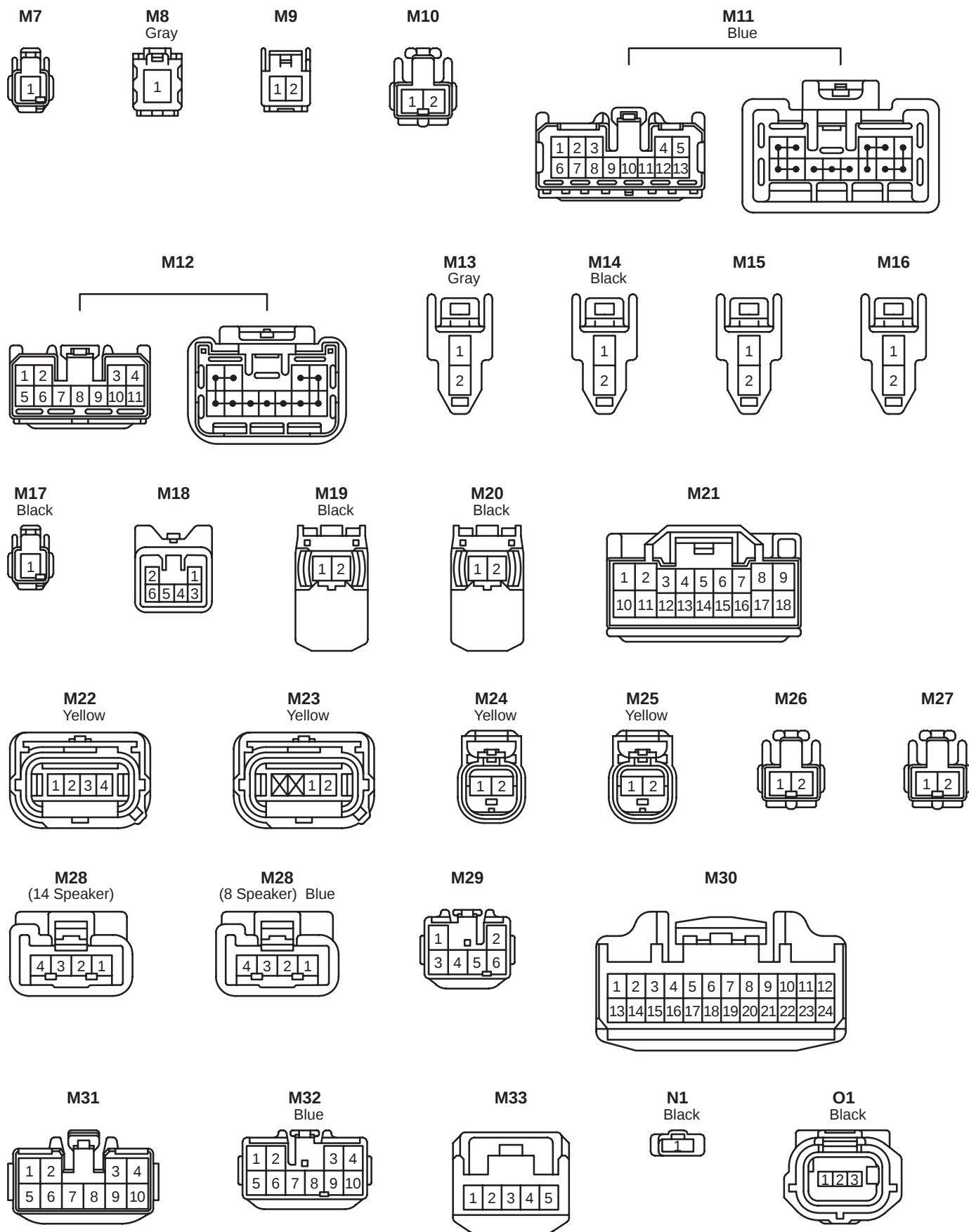


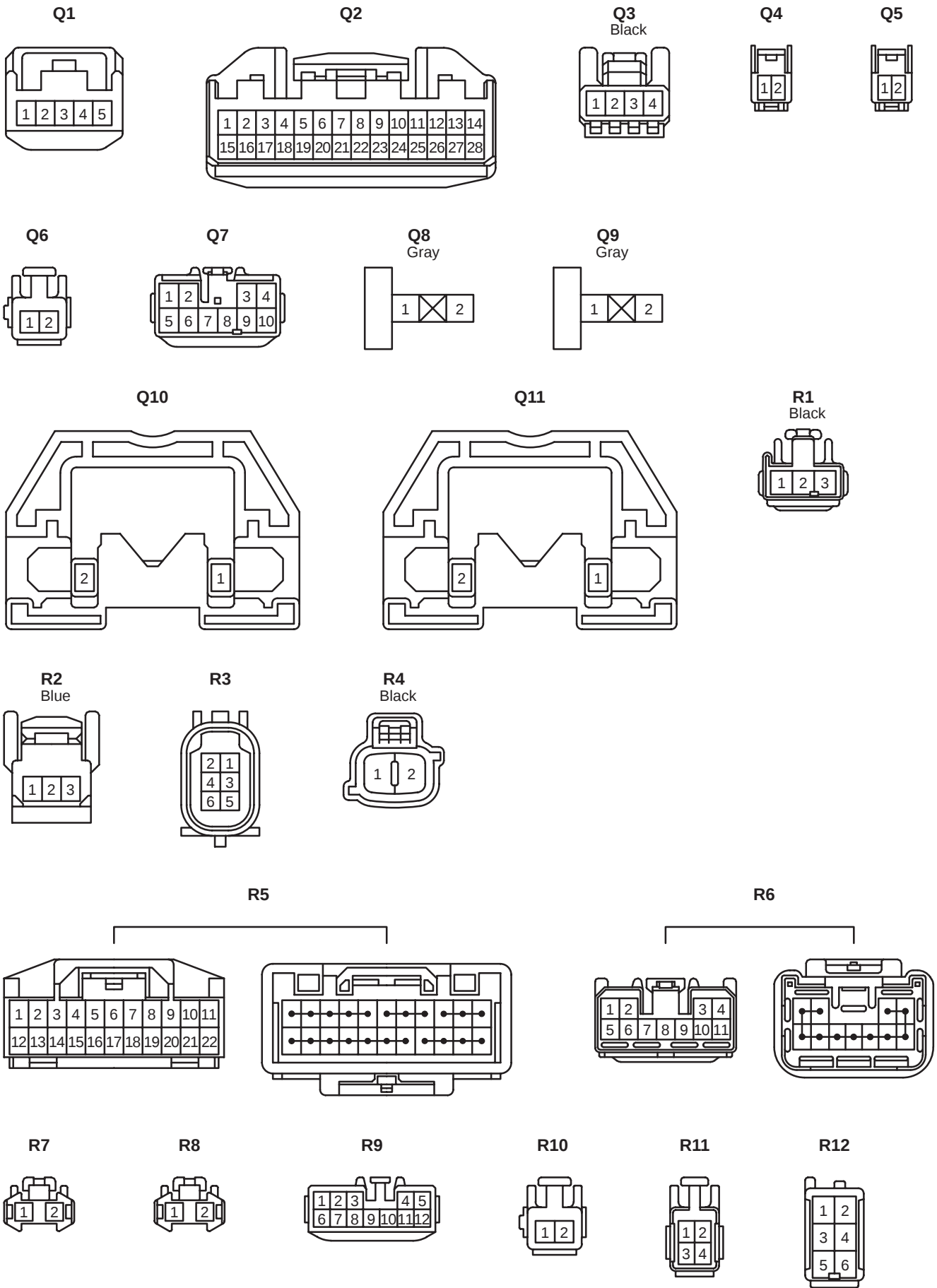
*1 : w/ Rear Side Airbag

*2 : w/o Rear Side Airbag

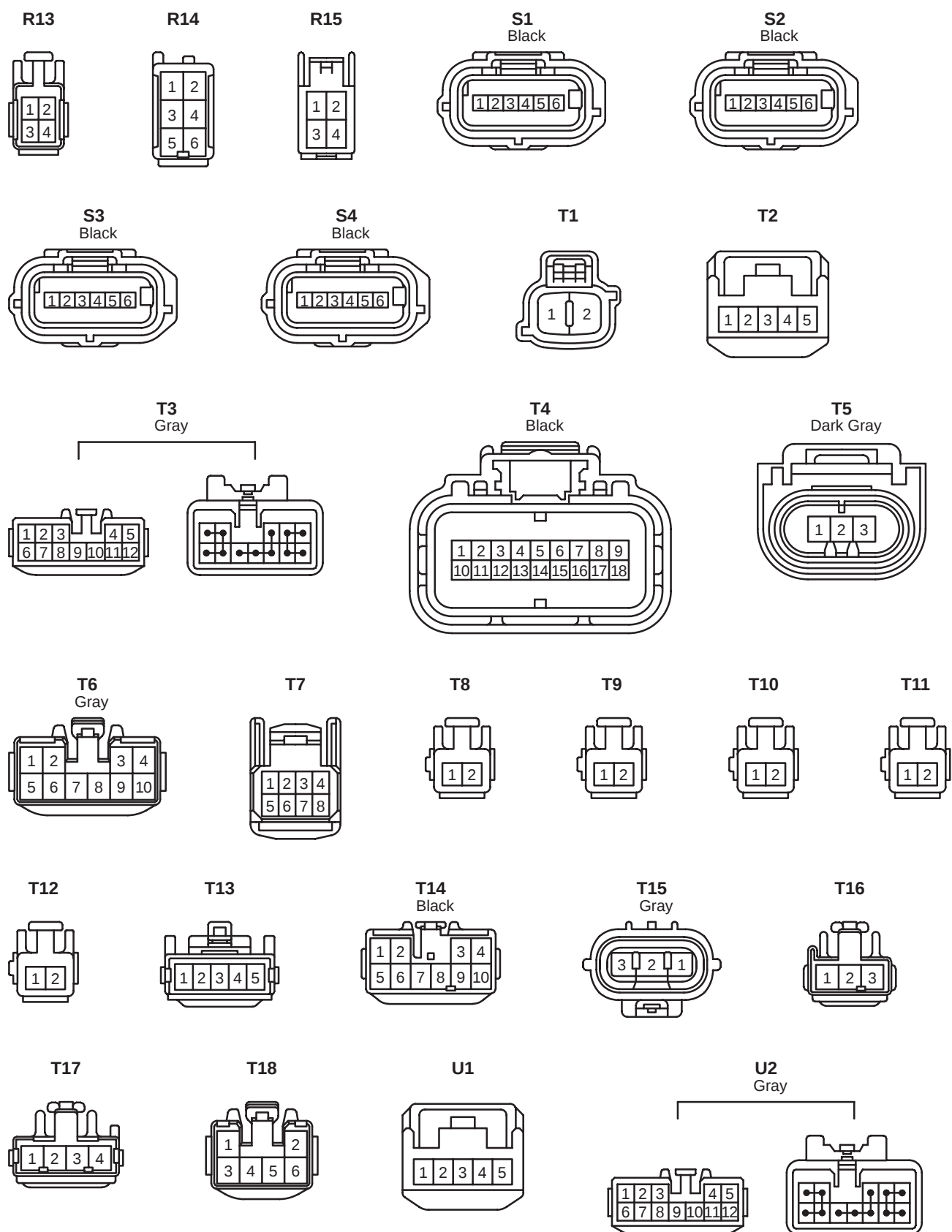
L15**L16****L17**
Blue**L18****L19**
Gray**L20**
Gray**L21**
Gray**L22**
Black**L23**
Black**L24**
Black**L25**
Black**L26**
Yellow**L27**
Yellow**L28**
Yellow**L29**
Yellow**M1**
(*1) Yellow**M1**
(*2) Yellow**M2****M3**
Black**M4**
Black**M5****M6**

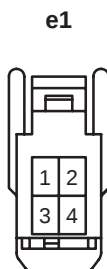
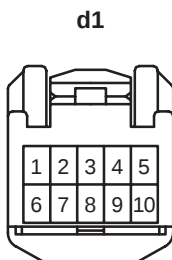
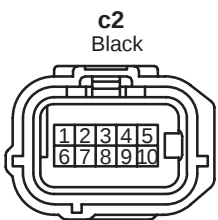
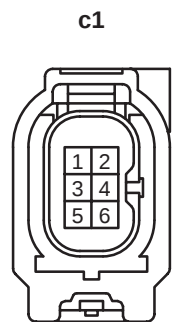
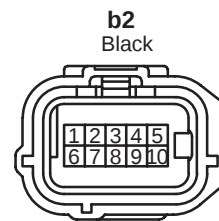
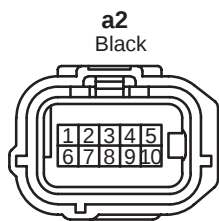
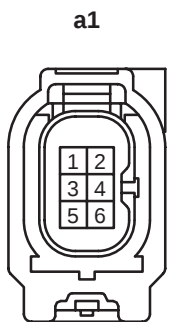
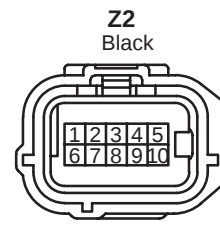
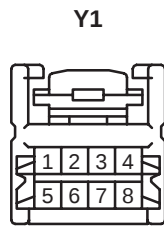
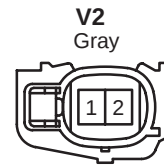
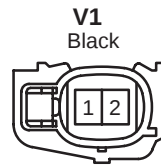
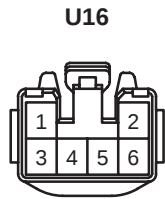
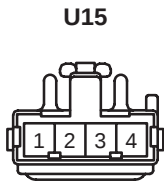
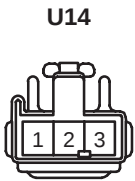
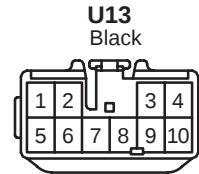
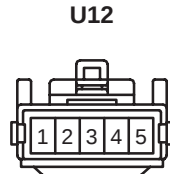
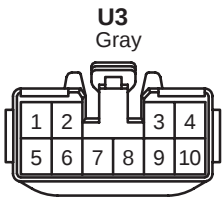
K CONNECTOR LIST



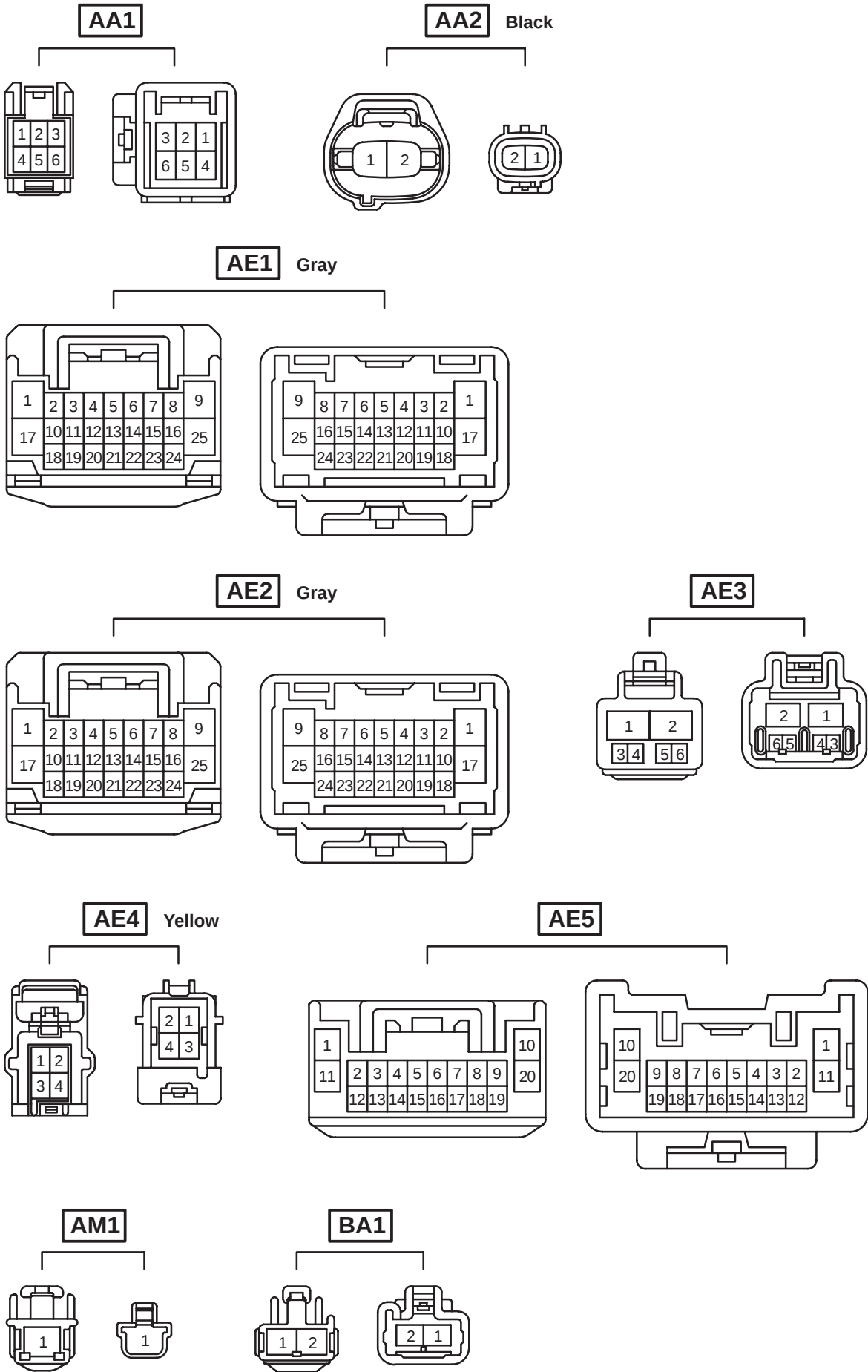


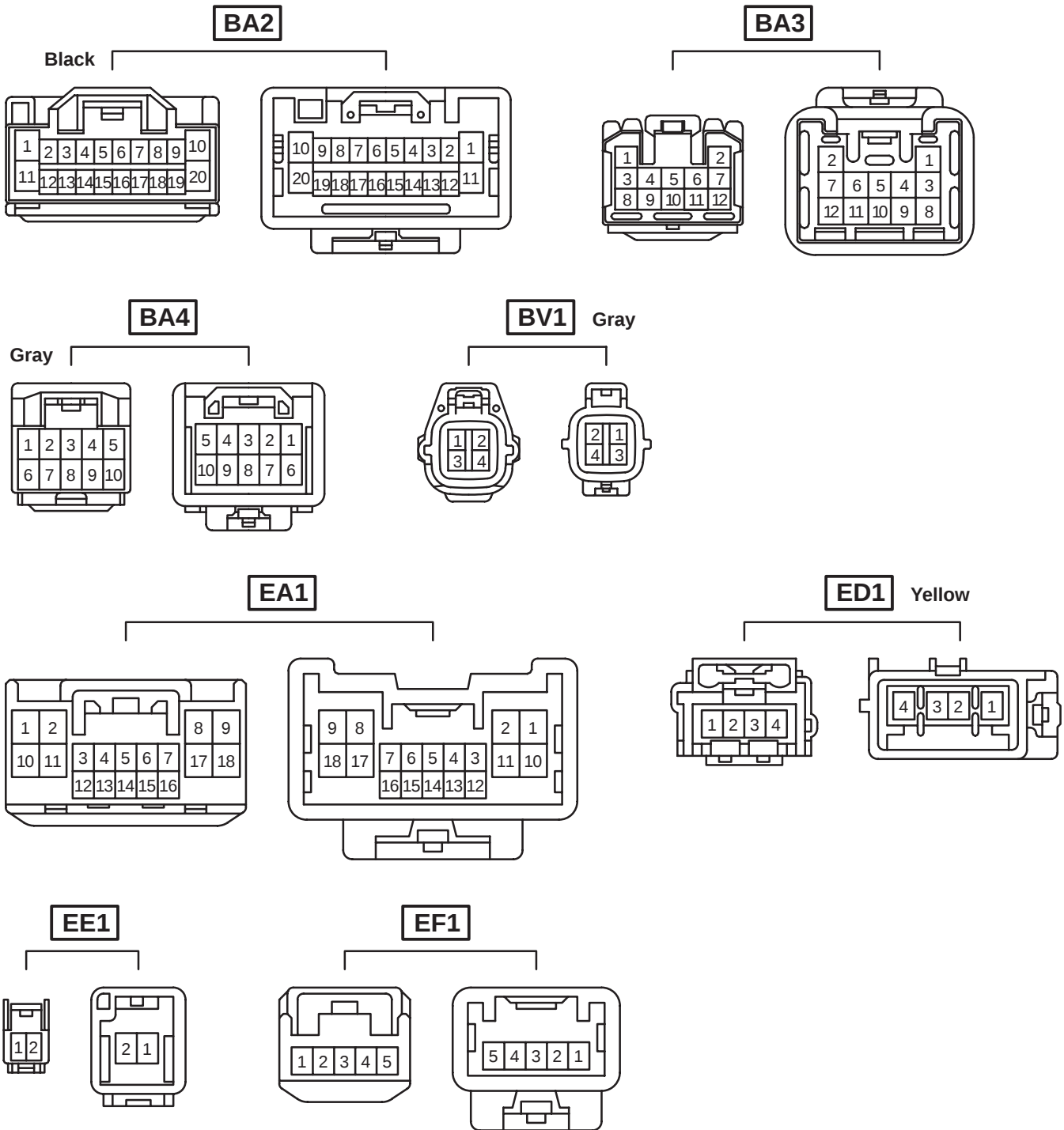
K CONNECTOR LIST





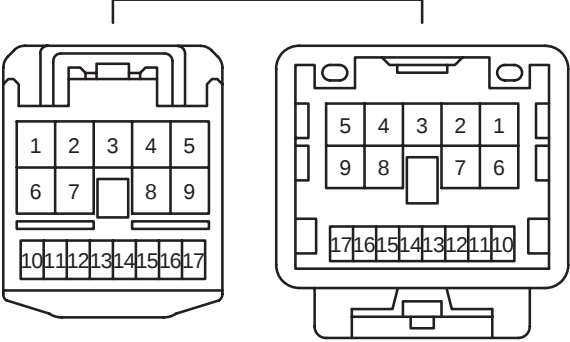
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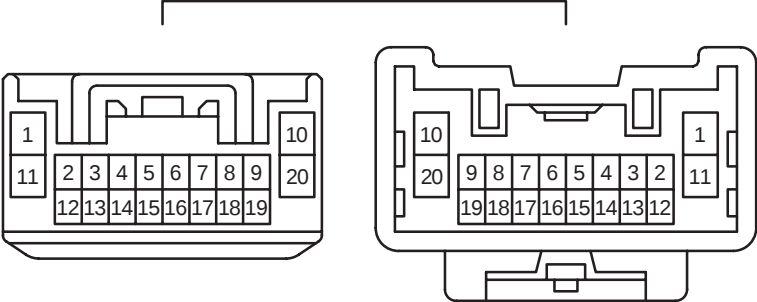


K CONNECTOR LIST

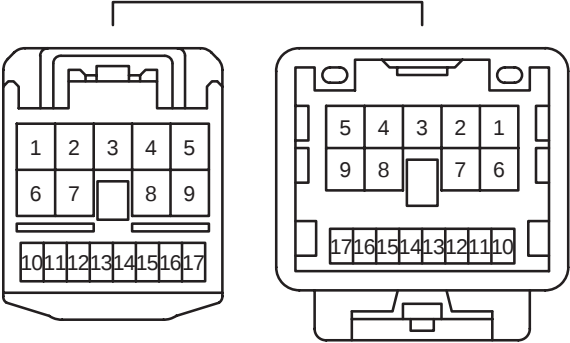
EL1



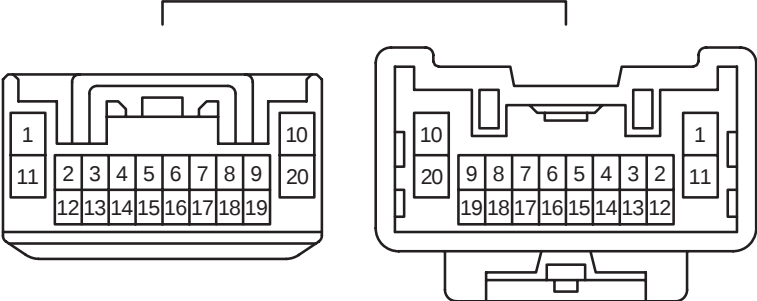
EL2 Blue



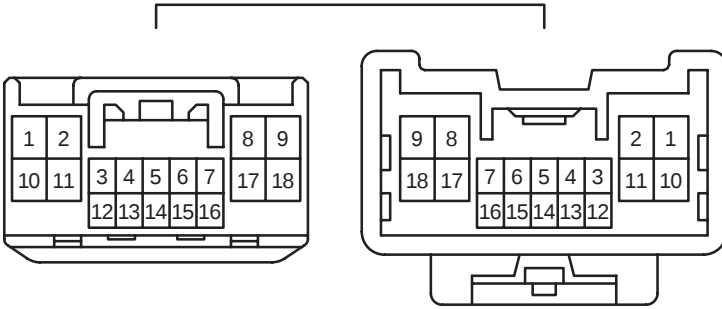
EM1



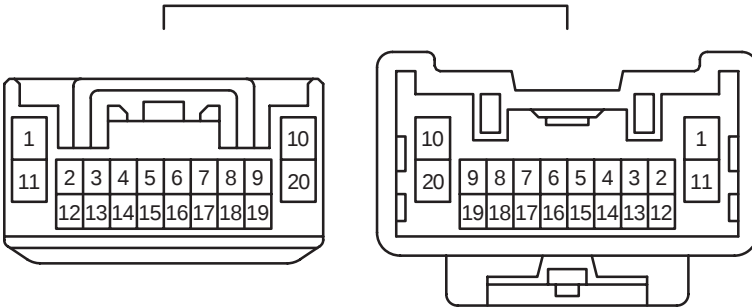
EM2 Blue



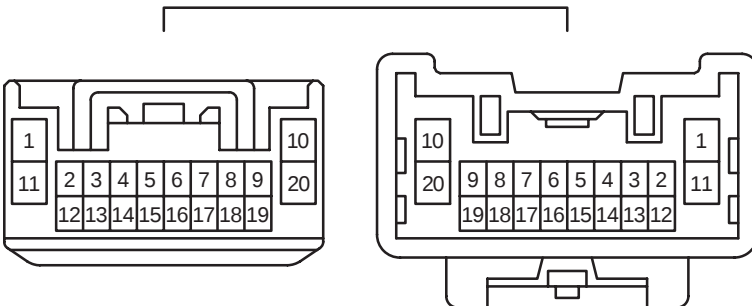
EM3



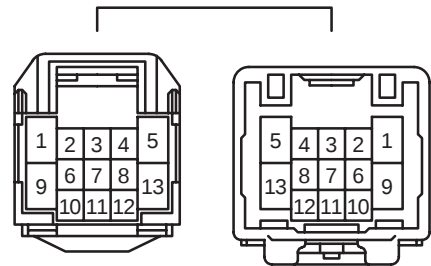
EQ1



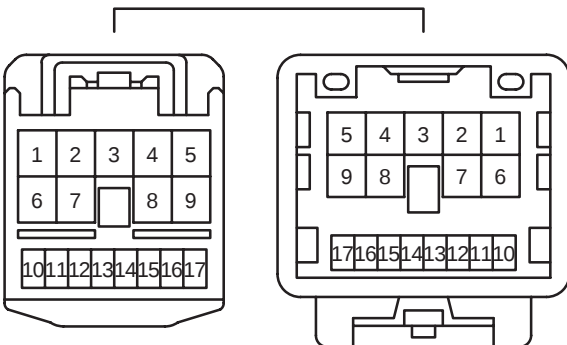
FE1



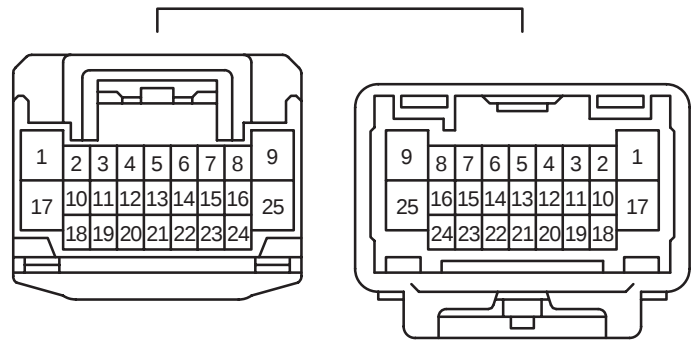
GE1



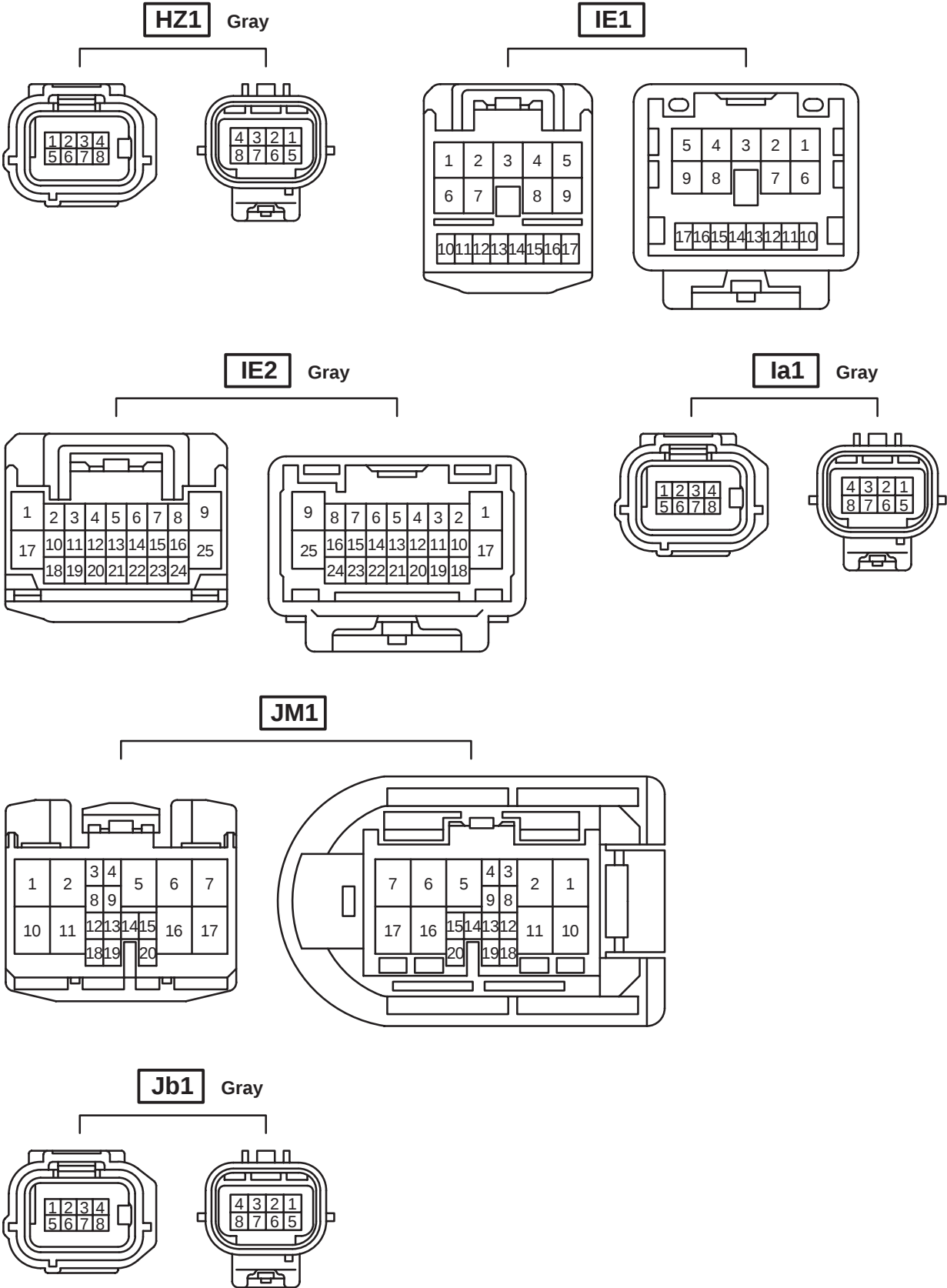
HE1



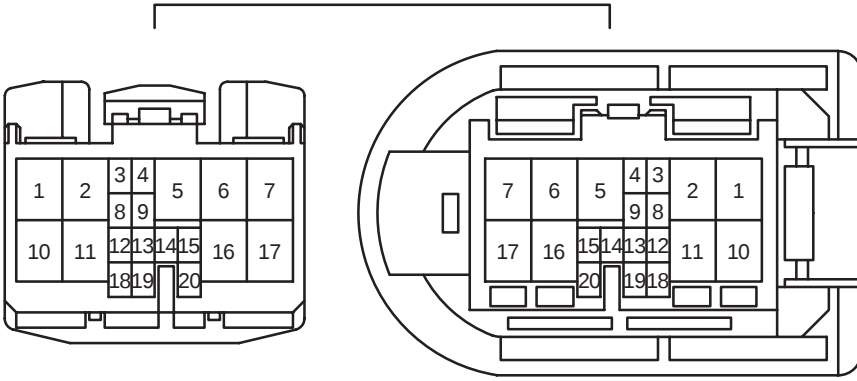
HE2 Gray



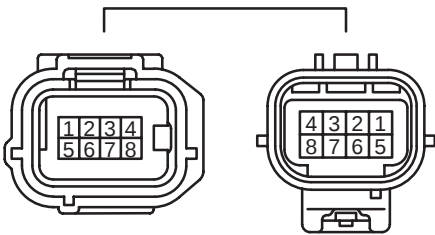
K CONNECTOR LIST



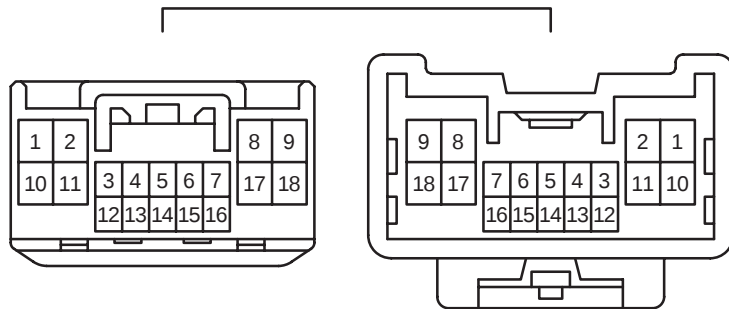
KL1



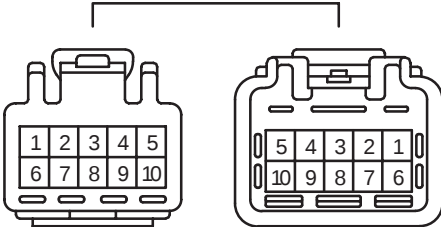
Kc1 Gray



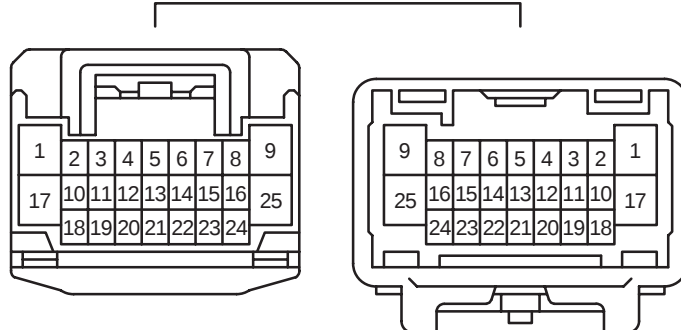
LA1 Black



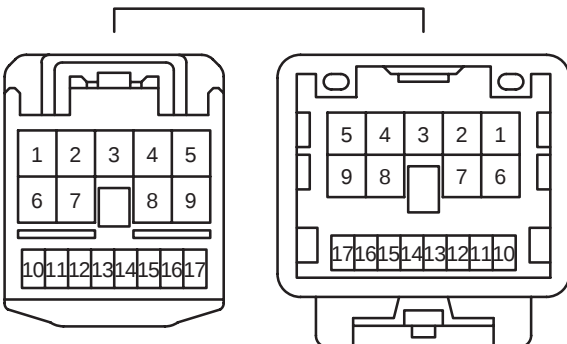
LM1



LR1

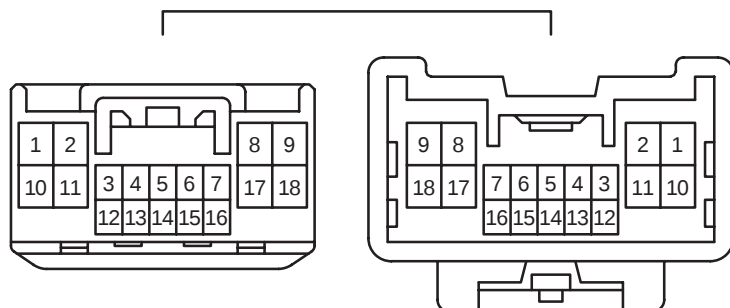


LU1

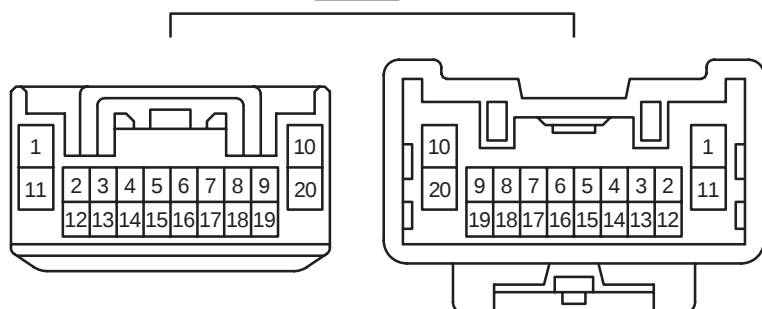


K CONNECTOR LIST

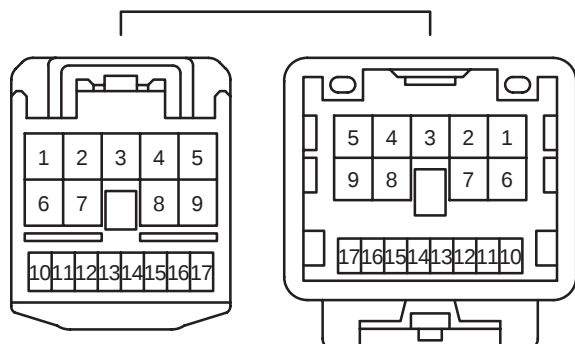
MA1 Black



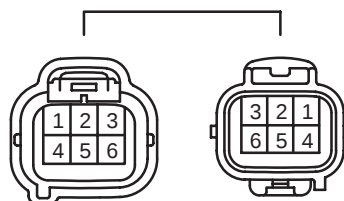
ME1 Blue



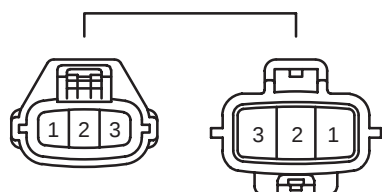
MT1



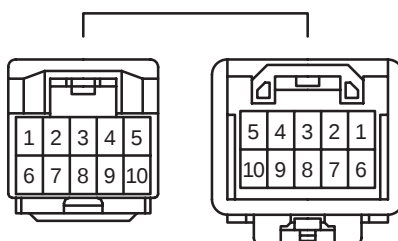
MT2



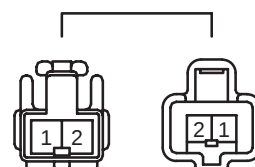
OM1 Gray



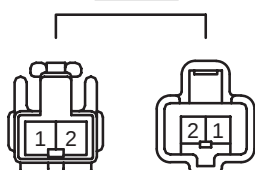
SM1



WM1 Gray



XL1 Gray



L PART NUMBER OF CONNECTORS

Code	Part Name	Part Number	Code	Part Name	Part Number
A1	A/C Pressure Sensor	90980-10845	A47	VSV (Air Intake Control)	90980-11156
A2	Accelerator Position Sensor	90980-12303	A48	Washer Level Warning SW	90980-11068
A3	Airbag Sensor (Front LH)	90980-12490	A49	Windshield Washer Motor	90980-11019
A4	Airbag Sensor (Front RH)		A50	Windshield Wiper Motor	90980-11599
A5	Ambient Temp. Sensor	90980-11070	A51	Wireless Door Lock Buzzer	90980-11142
A6	Brake Fluid Level Warning SW	90980-11207	A55	Noise Filter (Ghost Buster)	90980-11156
A7	Cooling Fan ECU	90980-12058	B1	A/C Compressor	
A8	Distance Control ECU	90980-12444	B2	A/C Compressor	90980-11016
A9	Active Control Engine Mount ECU		B3	Air Fuel Ratio Sensor (Bank 1 Sensor 1)	90980-11178
A10	Engine Control Module	90980-12462	B4	Air Fuel Ratio Sensor (Bank 2 Sensor 1)	
A11	Engine Hood Courtesy SW	90980-11189	B5	Camshaft Timing Oil Control Valve (LH Exhaust Side)	90980-11162
A12	Fog Lamp (Front LH)	90980-11660	B6	Camshaft Timing Oil Control Valve (LH Intake Side)	
A13	Fog Lamp (Front RH)		B7	Camshaft Timing Oil Control Valve (RH Exhaust Side)	
A14	Headlamp (LH High)	90980-11659	B8	Camshaft Timing Oil Control Valve (RH Intake Side)	
A15	Headlamp Assembly (LH)	90980-11194	B9	Crankshaft Position Sensor	90980-12611
A16	Headlamp (LH Low)	90980-11314	B10	Active Control Engine Mount Actuator	90980-11156
A17	Headlamp (RH High)	90980-11659	B11	Active Control Engine Mount Sensor	90980-11143
A18	Headlamp Assembly (RH)	90980-11194	B12	Engine Control Module	90980-12396
A19	Headlamp (RH Low)	90980-11314	B13	Engine Coolant Temp. Sensor	90980-10735
A20	Headlamp Leveling Motor (LH)	90980-12353	B14	Engine Oil Level Sensor	90980-11235
A21	Headlamp Leveling Motor (RH)		B15	Engine Oil Pressure SW	90980-11363
A22	Headlamp Swivel ECU	90980-12422	B16	Fuel Injector (No.1)	90980-11875
A23	Horn (High)	90980-10619	B17	Fuel Injector (No.2)	
A24	Horn (Low)		B18	Fuel Injector (No.3)	
A25	Junction Connector	90980-11661	B19	Fuel Injector (No.4)	
A26	Junction Connector		B20	Fuel Injector (No.5)	
A27	Junction Connector	90980-12372	B21	Fuel Injector (No.6)	
A28	Junction Connector		B22	Generator	90980-11964
A29	Junction Connector	90980-11194	B23	Generator	90980-09983
A30	Junction Connector		B24	Heated Oxygen Sensor (Bank 1 Sensor 2)	90980-10869
A31	Millimeter Wave Radar Sensor	90980-12292	B25	Heated Oxygen Sensor (Bank 2 Sensor 2)	90980-11028
A32	Parking Brake SW	90980-10871	B26	Ignition Coil (No.1)	90980-11885
A33	Parking Lamp (LH)	90980-11156	B27	Ignition Coil (No.2)	
A34	Parking Lamp (RH)		B28	Ignition Coil (No.3)	
A35	Security Horn	90980-10619	B29	Ignition Coil (No.4)	
A36	Skid Control ECU with Actuator	90980-12297	B30	Ignition Coil (No.5)	
A37	Smog Ventilation Sensor	90980-11034	B31	Ignition Coil (No.6)	90980-11194
A38	Speed Sensor (Front LH)	90980-11002	B32	Junction Connector	
A39	Speed Sensor (Front RH)		B33	Mass Air Flow Meter	90980-12292
A40	Stop Lamp SW	90980-11118	B34	Noise Filter (Ignition LH)	90980-10843
A41	Turn Signal Lamp (Front LH)	90980-11019	B35	Noise Filter (Ignition RH)	
A42	Turn Signal Lamp (Front RH)		B36	Park/Neutral Position SW	90980-12362
A43	Turn Signal Lamp (Front Side LH)	90980-11875	B37	Power Steering Oil Pressure SW	90980-11428
A44	Turn Signal Lamp (Front Side RH)				
A45	Ultrasonic Sensor (Front Corner LH)	90980-12303			
A46	Ultrasonic Sensor (Front Corner RH)				

Note: Not all of the above part numbers of the connector are established for the supply.

Code	Part Name	Part Number	Code	Part Name	Part Number
B38	Starter	90980-11400	E33	Junction Connector	90980-11661
B39	Throttle Body Assembly	90980-11858	E34	Junction Connector	
B40	Transmission Control ECU	90980-12649	E35	Junction Connector	90980-11542
B41	VSV (ACIS)	90980-11162	E37	Junction Connector	90980-11539
B42	VSV (Purge)	90980-11156	E38	Junction Connector	90980-12355
B43	VVT Sensor (Bank 1 Exhaust Side)	90980-12353	E39	Junction Connector	
B44	VVT Sensor (Bank 1 Intake Side)		E40	Junction Connector	
B45	VVT Sensor (Bank 2 Exhaust Side)		E41	Junction Connector	
B46	VVT Sensor (Bank 2 Intake Side)		E42	Junction Connector	
C1	Starter	90980-09463	E43	Junction Connector	
D1	Airbag Squib (Front Passenger's Airbag Assembly)	90980-12576	E44	Junction Connector	
D2	Airbag Squib (Front Passenger's Airbag Assembly)	90980-12575	E45	Junction Connector	
E1	A/C Amplifier	90980-12557	E46	Junction Connector	
E2	A/C Amplifier	90980-12554	E47	Junction Connector	
E3	A/C Control Assembly	90980-11913	E48	Junction Connector	
E4	A/C Room Temp. Sensor	90980-11918	E49	Junction Connector	
E5	AFS OFF SW	90980-10825	E50	Junction Connector	
E6	Airbag Sensor Assembly Center	90980-12391	E51	Junction Connector	
E7	Airbag Squib (Driver's Side Knee Airbag)	90980-12452	E52	Junction Connector	
E8	Airbag Squib (Front Passenger's Side Knee Airbag)		E53	Foot Lamp (LH)	90980-11918
E9	Airbag Squib (Steering Wheel Pad)	90980-12160	E54	Foot Lamp (RH)	90980-11950
E10	Antenna Amplifier	90980-10871	E55	Light Control Rheostat	
E11	Windshield Wiper Relay	90980-12444	E56	Luggage Compartment Door Opener SW	90980-10933
E12	Blower Motor	90980-11667	E57	Luggage Compartment Door Opener SW (Main)	90980-10906
E13	Certification ECU	90980-12567	E58	Main Body ECU	90980-12328
E14	Certification ECU	90980-12566	E59	Main Body ECU	90980-12329
E15	Cigarette Lighter	90980-10795	E60	Main Body ECU	90980-12330
E16	Clearance Warning Buzzer	90980-10825	E61	Main Body ECU	90980-12561
E17	Back Sonar SW	90980-12162	E62	Multi-Display	90980-12444
E18	Clock Assembly	90980-12113	E63	Multi-Display	90980-12555
E19	Combination Meter	90980-12554	E64	Multi-Display	90980-12209
E20	Combination Meter	90980-12553	E65	Outer Mirror Control ECU	90980-12557
E21	Data Link Connector 3	90980-11665	E66	Outer Mirror Control ECU	90980-10997
E22	Diode (Door Courtesy Front LH)	90980-10962	E67	Outer Mirror SW	90980-11657
E23	Diode (Door Courtesy Front RH)		E68	Power SW	90980-12370
E24	Electrical Key Oscillator (Console)	90980-12296	E69	Radio Receiver Assembly	90980-12038
E25	Gateway ECU	90980-12423	E70	Radio Receiver Assembly	90980-12460
E26	Glove Box Lamp	90980-11918	E71	Radio Receiver Assembly	90980-12209
E27	Headlamp Dimmer SW Assembly	90980-12460	E72	Radio Receiver Assembly	90980-12551
E28	Windshield Wiper SW Assembly	90980-12359	E73	Radio Receiver Assembly	90980-12423
E29	Windshield Wiper SW Assembly	90980-12358	E74	Radio Receiver Assembly	90980-12552
E30	Spiral Cable	90980-12552	E75	Rear Sunshade SW	90980-11909
E31	Steering Sensor	90980-12162	E76	Retractable Outer Mirror SW	90980-11989
E32	ID Code Box	90980-12558	E77	Shift Lock Control ECU	90980-12552
			E78	Steering Lock ECU	90980-12092

L PART NUMBER OF CONNECTORS

Code	Part Name	Part Number	Code	Part Name	Part Number
E79	Tilt and Telescopic ECU	90980-11973	K3	Power Window ECU (Rear LH)	90980-12328
E80	Tilt Motor	90980-10797	K4	Power Window SW (Rear LH)	90980-12552
E81	Tire Pressure Warning ECU	90980-12552	K5	Speaker (Rear Door LH)	90980-10935
E82	Tire Pressure Warning Reset SW	90980-10906	K6	Tweeter (Rear Door LH)	90980-11013
E83	Tire Pressure Warning Select SW	90980-10825	L1	Airbag Sensor Assembly Center (w/ Rear Side Airbag)	90980-12392
E84	Transmission Control SW	90980-12551		Airbag Sensor Assembly Center (w/o Rear Side Airbag)	90980-12449
E85	Turn Signal Flasher	90980-10799	L2	Canister Pump Module	90980-12380
E86	Tweeter (Instrument Panel LH)	90980-11013	L3	Center Stop Lamp	90980-11148
E87	Tweeter (Instrument Panel RH)		L4	Curtain Shield Airbag Squib (LH)	90980-12219
E88	Yaw Rate Sensor	90980-11904	L5	Diode (Door Courtesy Rear LH)	90980-10962
E90	Diode (Interior Light)	90980-10962	L6	Diode (Luggage Compartment Lamp)	
E91	Junction Connector	90980-11661	L7	Door Courtesy SW (Front LH)	90980-10871
E92	Junction Connector		L8	Door Courtesy SW (Rear LH)	
E93	VSC Warning Buzzer	90980-10906	L9	Electrical Key Oscillator (Rear Seat)	90980-12296
E94	Speaker (Instrument Panel LH)	90980-11013	L10	Front Seat Inner Belt (LH)	90980-10942
E95	Speaker (Instrument Panel RH)		L11	Front Seat Outer Belt (LH)	90980-12063
F1	Console Box Lamp	90980-11918	L12	Front Seat Outer Belt Motor (LH)	90980-10860
F2	Power Outlet Socket	90980-12498	L13	Fuel Suction Pump and Gage Assembly	90980-11077
F3	Seat Heater SW	90980-12552	L14	Junction Connector	90980-11915
F4	Stereo Jack Adapter	82824-21030	L15	Junction Connector	
G1	Security Indicator Lamp	90980-12063	L16	Junction Connector	90980-11539
G2	Speaker (Center)	90980-10860	L17	Junction Connector	90980-12355
G3	Automatic Light Control Sensor	90980-12056	L18	Luggage Compartment Lamp	90980-11148
H1	Courtesy Lamp (Front Door RH)	90980-11148	L19	Noise Filter (Dome Lamp)	90980-11094
H2	Door Lock Assembly (Front RH)	90980-12226	L20	Noise Filter (Rear Window Defogger)	
H3	Door Lock Control SW	90980-11909	L21	Noise Filter (Stop Lamp)	
H4	Outer Rear View Mirror (RH)	90980-12261	L22	Pretensioner (Front LH)	90980-12452
H5	Power Window ECU (Front RH)	90980-12328	L23	Pretensioner (Rear LH)	
H6	Power Window SW (Front RH)	90980-12552	L24	Rear Sunshade Relay	90980-10789
H7	Seat Memory SW (RH)	90980-11950	L25	Rear Window Defogger	90980-10913
H8	Speaker (Front Door RH)	90980-10935	L26	Side Airbag Sensor (Front LH)	90980-12225
I1	Courtesy Lamp (Front Door LH)	90980-11148	L27	Side Airbag Sensor (Rear LH)	90980-12352
I2	Door Lock Assembly (Front LH)	90980-12226	L28	Side Airbag Squib (Front LH)	90980-11864
I3	Outer Rear View Mirror (LH)	90980-12261	L29	Side Airbag Squib (Rear LH)	
I4	Power Window ECU (Front LH)	90980-12328	M1	Airbag Sensor Assembly Center (w/ Rear Side Airbag)	90980-12390
I5	Power Window Master SW	90980-12460		Airbag Sensor Assembly Center (w/o Rear Side Airbag)	90980-12450
I6	Seat Memory SW (LH)	90980-11950	M2	Clearance Warning ECU	90980-12404
I7	Speaker (Front Door LH)	90980-10935	M3	Curtain Shield Airbag Squib (RH)	90980-12219
J1	Courtesy Lamp (Rear Door RH)	90980-11148	M4	Diode (Door Courtesy Rear RH)	90980-10962
J2	Door Lock Assembly (Rear RH)	90980-12226	M5	Door Control Receiver	90980-50011
J3	Power Window ECU (Rear RH)	90980-12328	M6	Door Courtesy SW (Front RH)	90980-10871
J4	Power Window SW (Rear RH)	90980-12552	M7	Door Courtesy SW (Rear RH)	
J5	Speaker (Rear Door RH)	90980-10935	M8	Electrical Key Antenna	90980-12043
J6	Tweeter (Rear Door RH)	90980-11013			
K1	Courtesy Lamp (Rear Door LH)	90980-11148			
K2	Door Lock Assembly (Rear LH)	90980-12226			

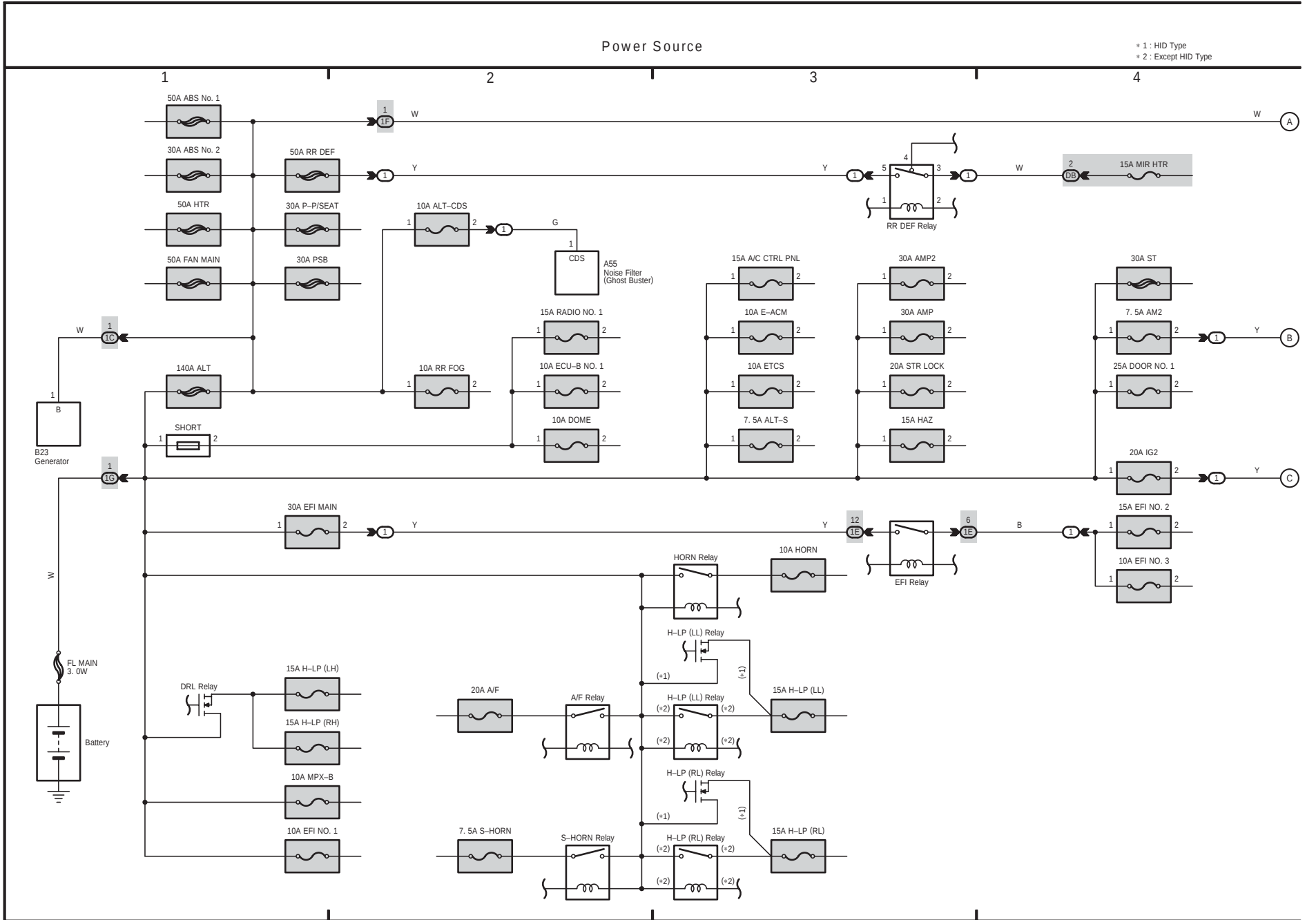
Note: Not all of the above part numbers of the connector are established for the supply.

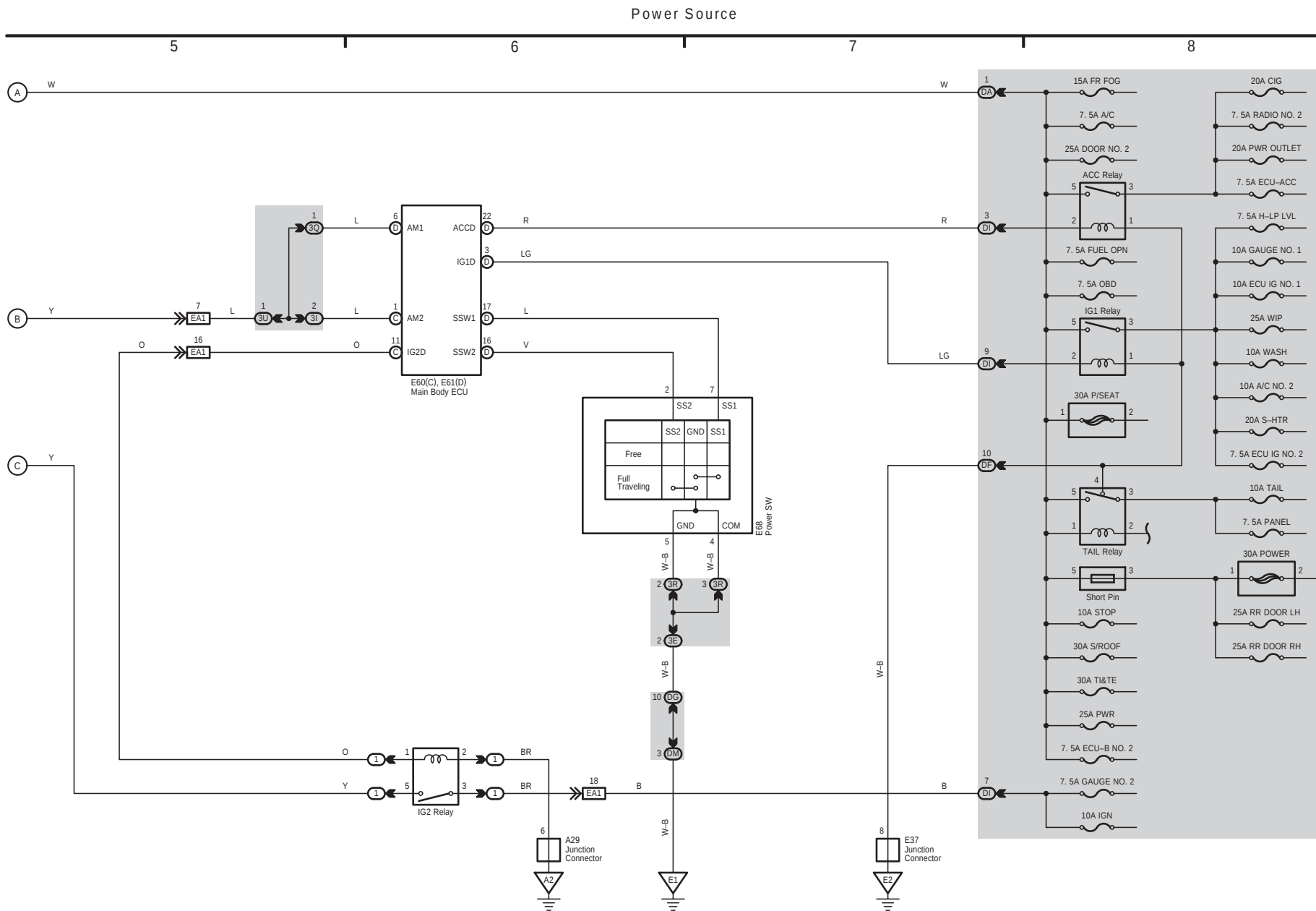
Code	Part Name	Part Number	Code	Part Name	Part Number
M9	Front Seat Outer Belt (RH)	90980-12063	R5	Junction Connector	90980-11915
M10	Front Seat Outer Belt Motor (RH)	90980-10860	R6	Junction Connector	90980-11539
M11	Junction Connector	90980-11542	R7	License Plate Lamp (LH)	90980-11148
M12	Junction Connector	90980-11539	R8	License Plate Lamp (RH)	
M13	Junction Connector	90980-12355	R9	Lamp Failure Indicator Sensor	90980-10803
M14	Junction Connector		R10	Luggage Electrical Key SW	90980-10825
M15	Junction Connector		R11	Rear Combination Lamp (LH)	90980-10795
M16	Junction Connector		R12	Rear Combination Lamp (LH)	90980-11011
M17	Junction Connector	90980-10871	R13	Rear Combination Lamp (RH)	90980-10795
M18	Option Connector (Satellite Digital Audio Radio Service)	90980-10796	R14	Rear Combination Lamp (RH)	90980-11011
M19	Pretensioner (Front RH)	90980-12452	R15	Television Camera	90980-12211
M20	Pretensioner (Rear RH)		S1	Ultrasonic Sensor (Rear Center LH)	90980-12303
M21	Seat Belt Control ECU	90980-11973	S2	Ultrasonic Sensor (Rear Center RH)	
M22	Side Airbag Sensor (Front RH)	90980-12225	S3	Ultrasonic Sensor (Rear Corner LH)	
M23	Side Airbag Sensor (Rear RH)	90980-12352	S4	Ultrasonic Sensor (Rear Corner RH)	
M24	Side Airbag Squib (Front RH)	90980-11864	T1	Front Seat Inner Belt (RH)	90980-11019
M25	Side Airbag Squib (Rear RH)		T2	Front Seat Inner Belt (RH)	90980-12366
M26	Speaker (Package Tray LH)	90980-10860	T3	Junction Connector	90980-10803
M27	Speaker (Package Tray RH)		T4	Occupant Classification ECU	90980-AA012
M28	Speaker (Woofer)	90980-11012	T5	Occupant Classification Sensor	90980-AA011
M29	Stereo Component Amplifier	90980-10996	T6	Position Control ECU and SW (Front RH Seat)	90980-10801
M30	Stereo Component Amplifier	90980-12554	T7	Position Control ECU and SW (Front RH Seat)	90980-12551
M31	Stereo Component Amplifier	90980-10801	T8	Power Seat Motor (Front RH Seat Front Vertical Control)	90980-10825
M32	Stereo Component Amplifier	90980-10997	T9	Power Seat Motor (Front RH Seat Lifter Control)	
M33	Tire Pressure Warning Antenna and Receiver	90980-12366	T10	Power Seat Motor (Front RH Seat Lumbar Support Control)	
N1	Rear Window Defogger	90980-10914	T11	Power Seat Motor (Front RH Seat Reclining Control)	
O1	Height Control Sensor	90980-12353	T12	Power Seat Motor (Front RH Seat Slide Control)	
Q1	Inner Rear View Mirror	90980-12366	T13	Power Seat SW (Front RH Seat Lumbar Support Control)	90980-10789
Q2	Overhead J/B	90980-12555	T14	Power Seat SW (Front RH Seat)	90980-10997
Q3	Rain Sensor	82824-50130	T15	Seat Belt Tension Sensor	90980-11348
Q4	Map Lamp (Rear LH)	90980-11918	T16	Seat Climate Control Blower (Front RH Seat Back)	90980-10908
Q5	Map Lamp (Rear RH)		T17	Seat Climate Control Blower (Front RH Seat Cushion)	90980-11013
Q6	Room Lamp (Rear)	90980-10825	T18	Seat Heater (RH)	90980-10797
Q7	Sliding Roof Control ECU	90980-10997	U1	Front Seat Inner Belt (LH)	90980-12366
Q8	Vanity Lamp (LH)	-	U2	Junction Connector	90980-10803
Q9	Vanity Lamp (RH)		U3	Position Control ECU and SW (Front LH Seat)	90980-10801
Q10	Vanity Lamp SW (LH)	90980-12322			
Q11	Vanity Lamp SW (RH)				
R1	Door Lock Assembly (Luggage)	90980-10908			
R2	Electrical Key Oscillator (Inside Luggage Room)	90980-12296			
R3	Electrical Key Oscillator (Outside Luggage Room)	90980-12381			
R4	Fuel Lid Opener Motor	90980-11019			

L PART NUMBER OF CONNECTORS

Code	Part Name	Part Number	Code	Part Name	Part Number
U4	Position Control ECU and SW (Front LH Seat)	90980-12551	U16	Seat Heater (LH)	90980-10797
U5	Power Seat Motor (Front LH Seat Front Vertical Control)	90980-10825	V1	Knock Control Sensor (Bank 1)	90980-11875
U6	Power Seat Motor (Front LH Seat Leg Support Control)		V2	Knock Control Sensor (Bank 2)	
U7	Power Seat Motor (Front LH Seat Lifter Control)		W1	Speed Sensor (Rear RH)	90980-11900
U8	Power Seat Motor (Front LH Seat Lumbar Support Control)		X1	Speed Sensor (Rear LH)	
U9	Power Seat Motor (Front LH Seat Reclining Control)		Y1	A/C Amplifier	90980-12264
U10	Power Seat Motor (Front LH Seat Slide Control)			A/C Blower Assembly	
U11	Power Seat SW (Front LH Seat Leg Support Control)	90980-10789	Z1	Door Outside Handle (Front RH)	90980-12382
U12	Power Seat SW (Front LH Seat Lumbar Support Control)		Z2	Electrical Key Oscillator (Front Door RH)	90980-12380
U13	Power Seat SW (Front LH Seat)	90980-10997	a1	Door Outside Handle (Front LH)	90980-12382
U14	Seat Climate Control Blower (Front LH Seat Back)	90980-10908	a2	Electrical Key Oscillator (Front Door LH)	90980-12380
U15	Seat Climate Control Blower (Front LH Seat Cushion)	90980-11013	b1	Door Outside Handle (Rear RH)	90980-12382
			b2	Electrical Key Oscillator (Rear Door RH)	90980-12380
			c1	Door Outside Handle (Rear LH)	90980-12382
			c2	Electrical Key Oscillator (Rear Door LH)	90980-12380
			d1	Spiral Cable	90980-12361
				Steering Pad SW	
			e1	Cruise Control SW	90980-12360
				Spiral Cable	

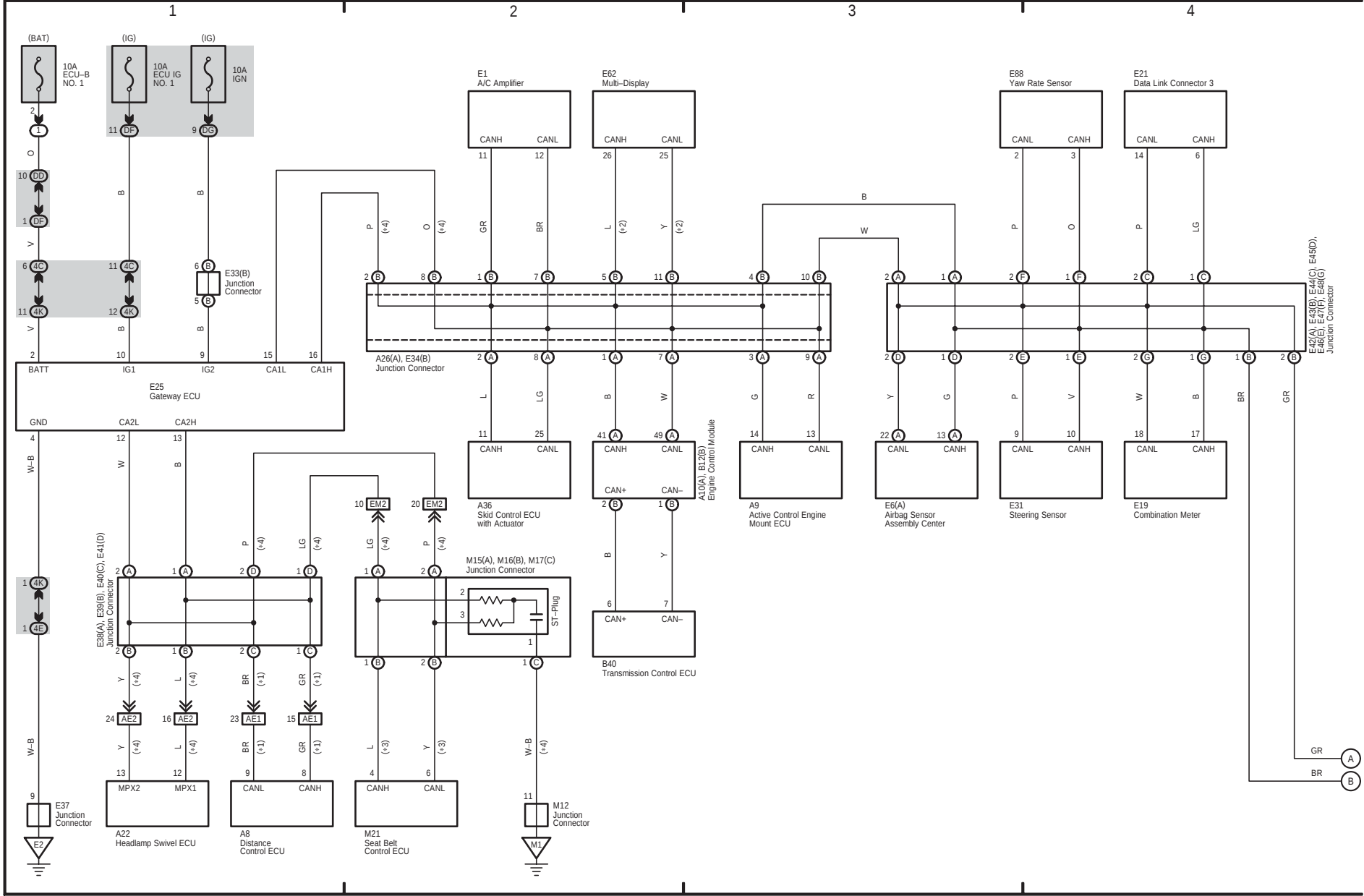
Note: Not all of the above part numbers of the connector are established for the supply.





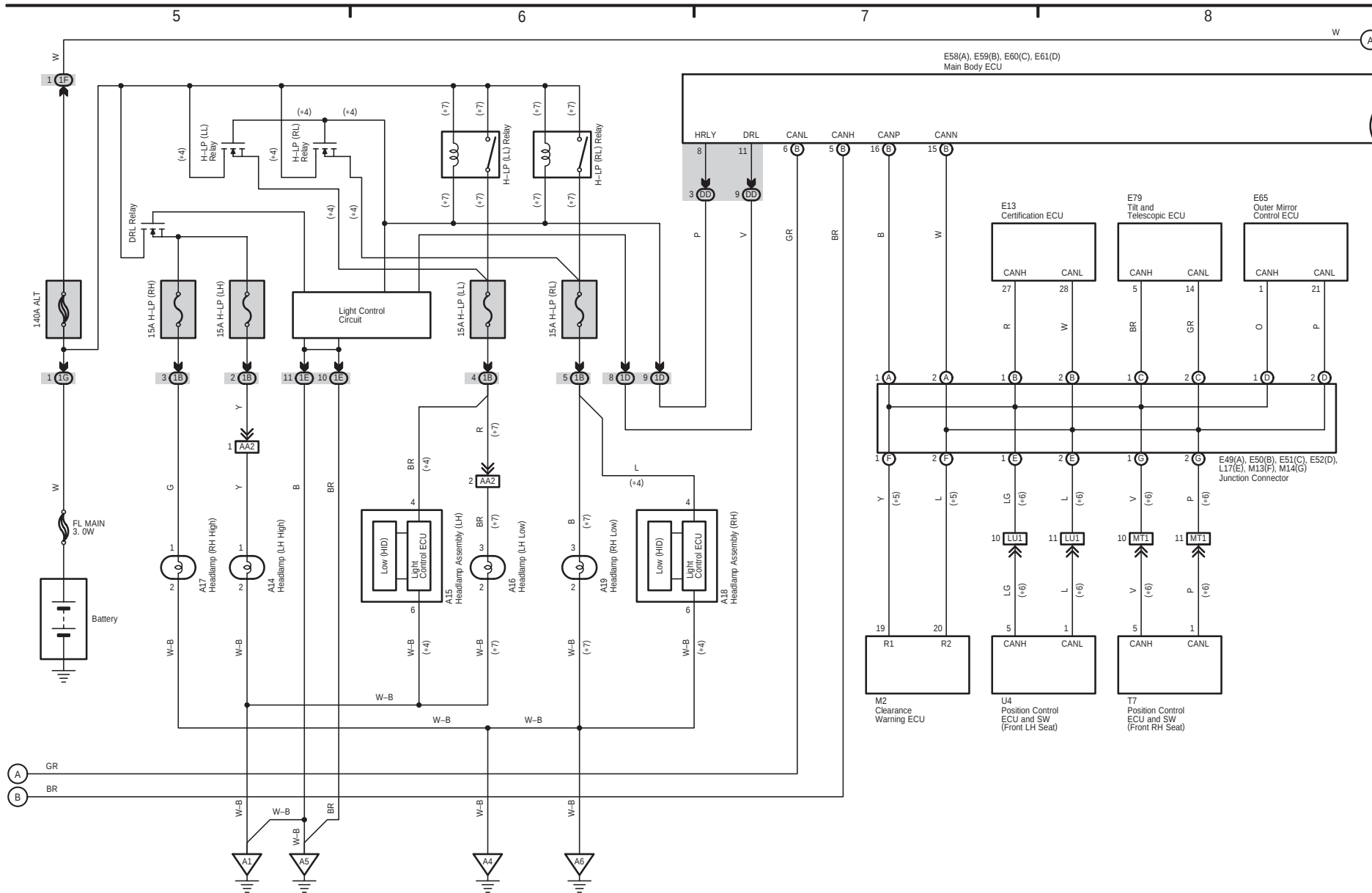
Multiplex Communication System (CAN)

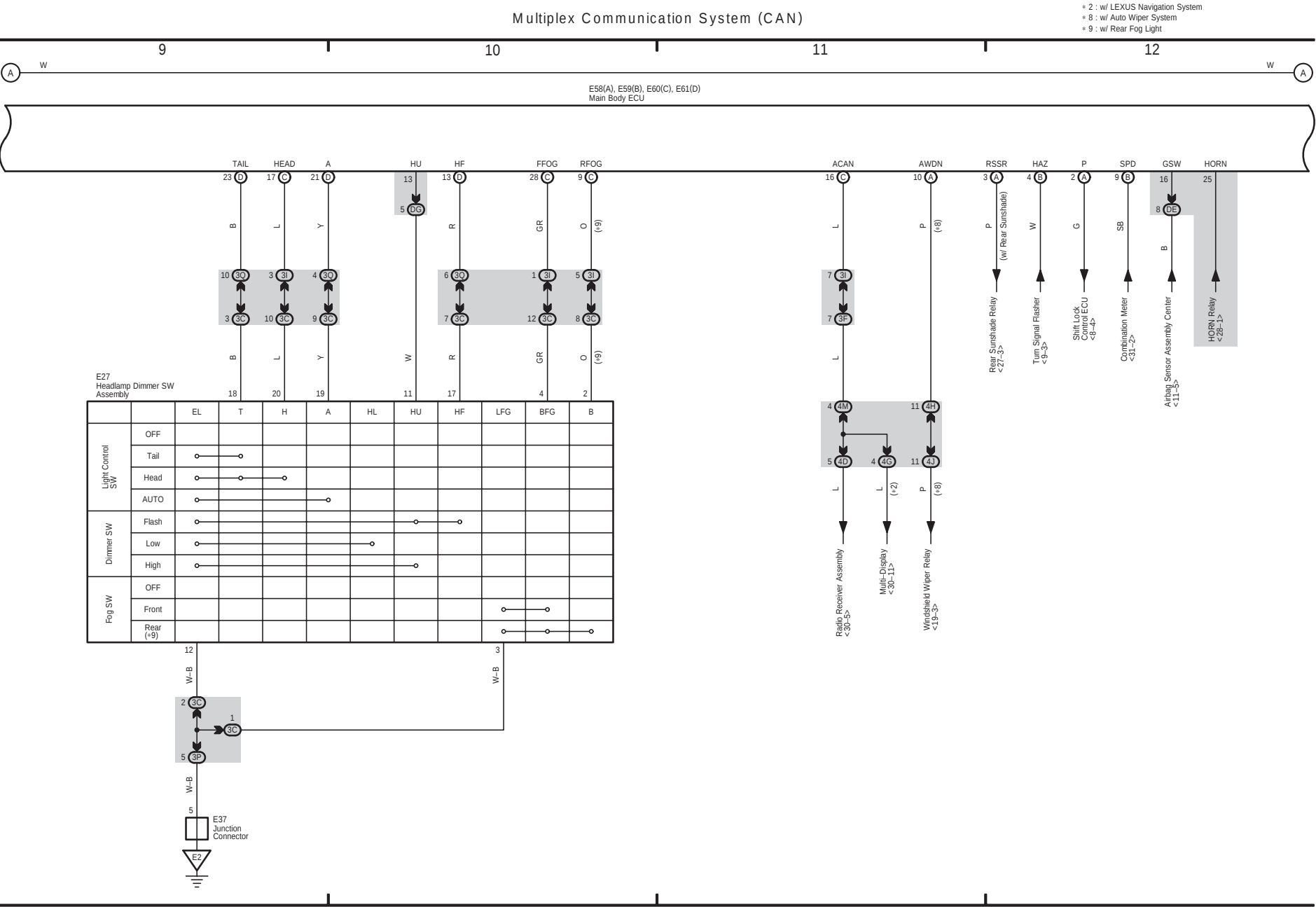
- * 1 : w/ Dynamic Radar Cruise Control
- * 2 : w/ LEXUS Navigation System
- * 3 : w/ Pre-Collision System
- * 4 : HID Type



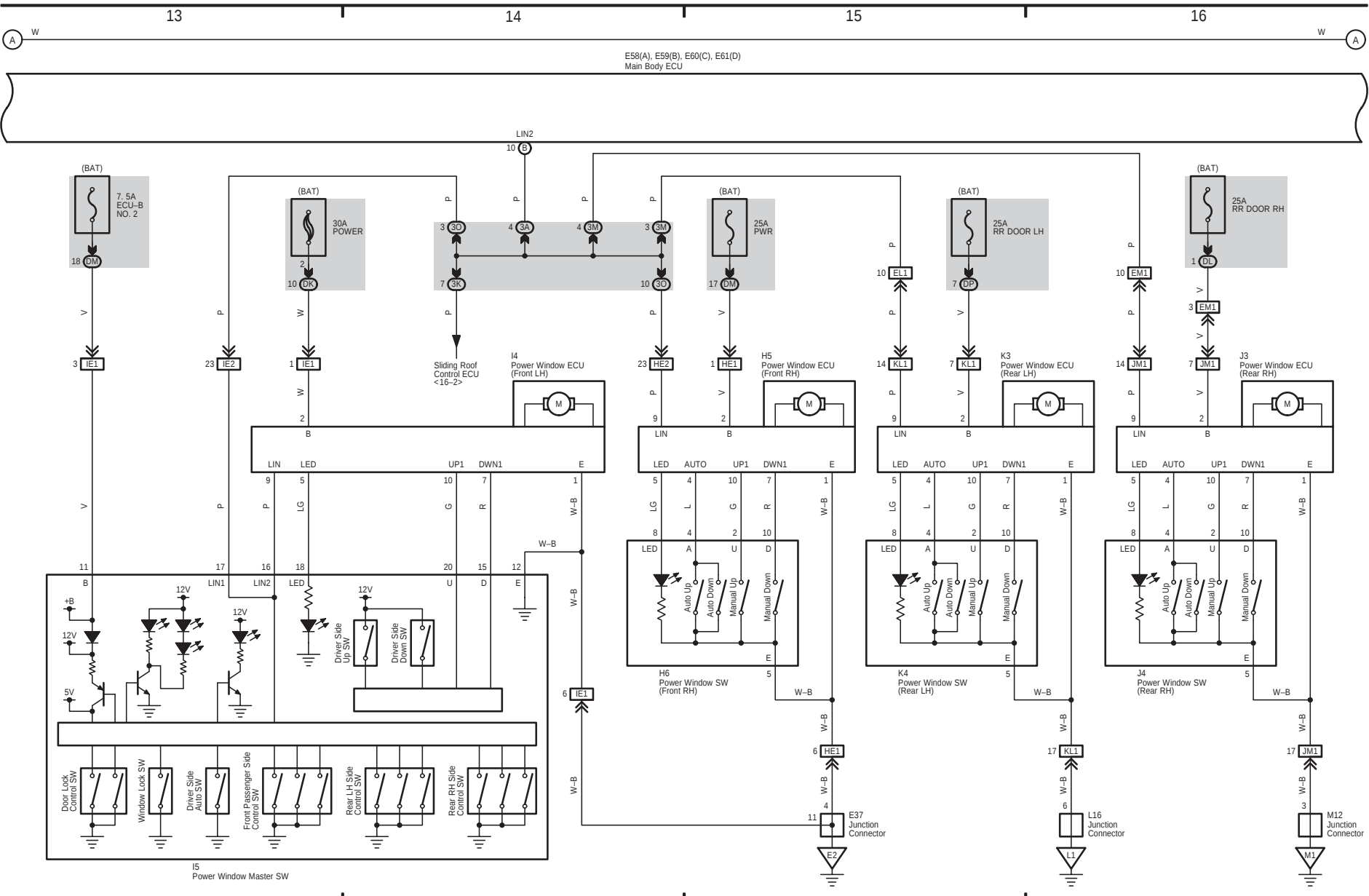
Multiplex Communication System (CAN)

- * 4 : HID Type
- * 5 : w/ Parking Assist (Intuitive Parking Assist)
- * 6 : w/ Seat Position Memory
- * 7 : Except HID Type





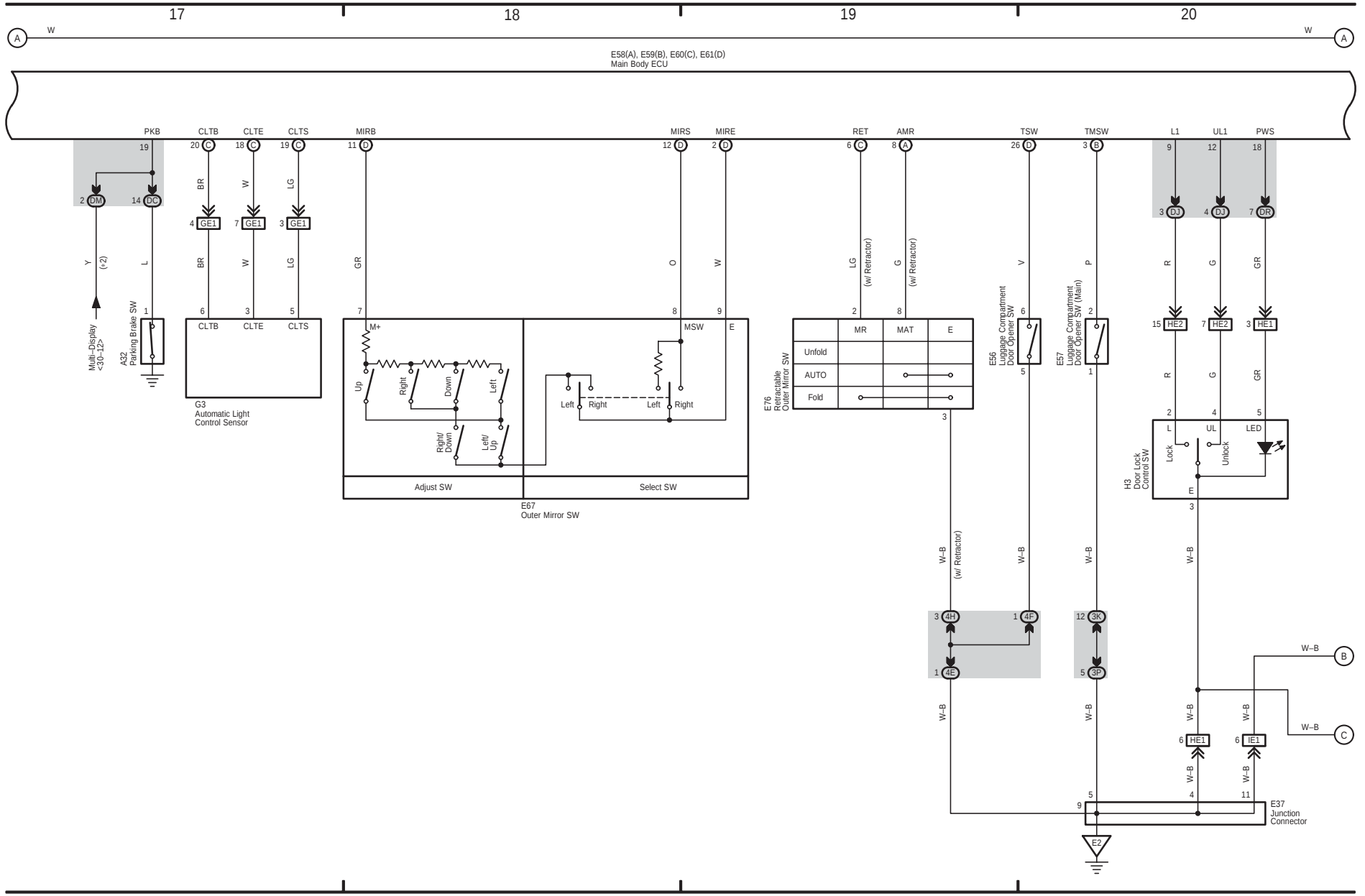
Multiplex Communication System (CAN)



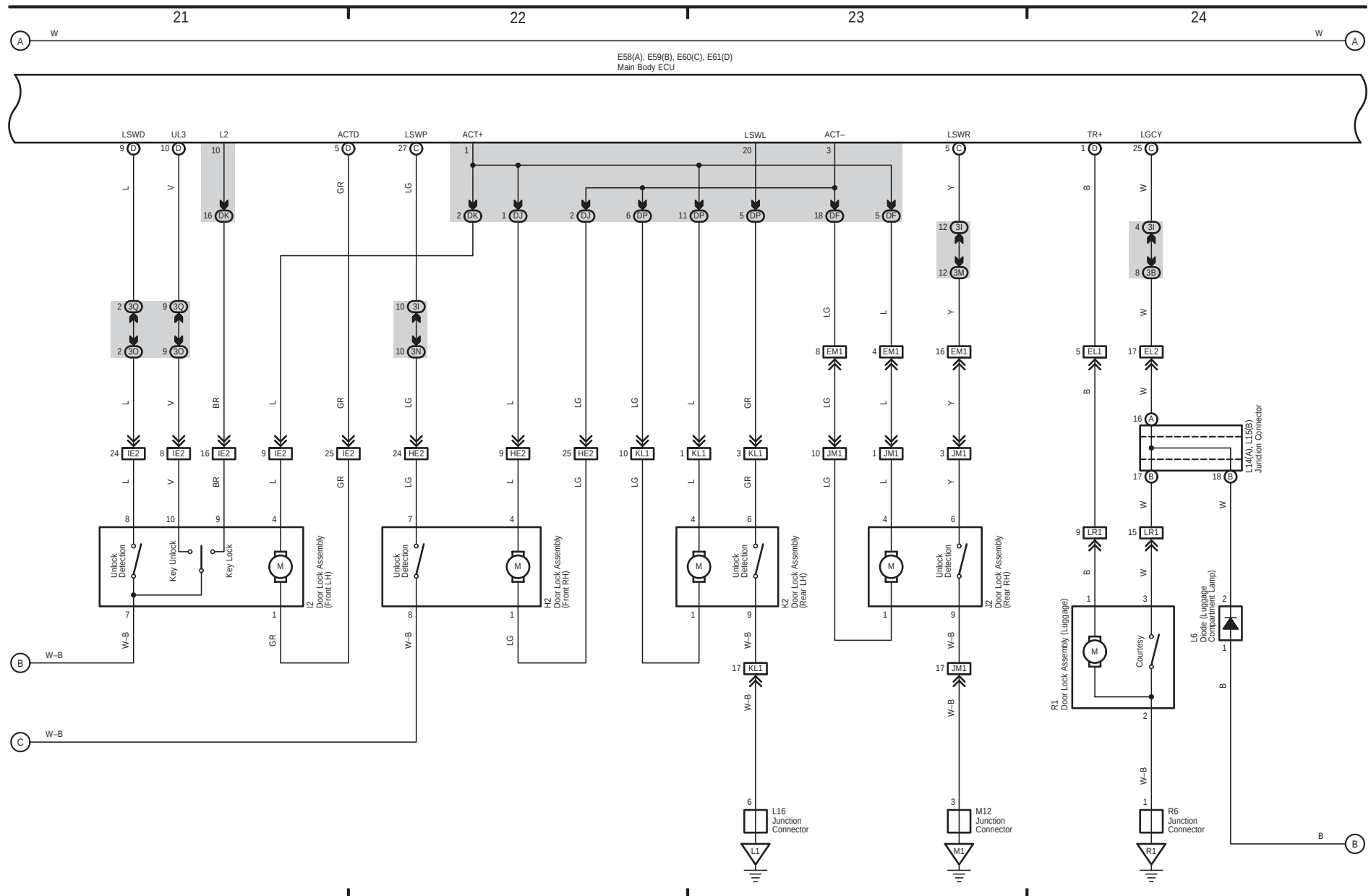
LEXUS ES 350 (EM01Y0U)

Multiplex Communication System (CAN)

* 2 : w/ LEXUS Navigation System



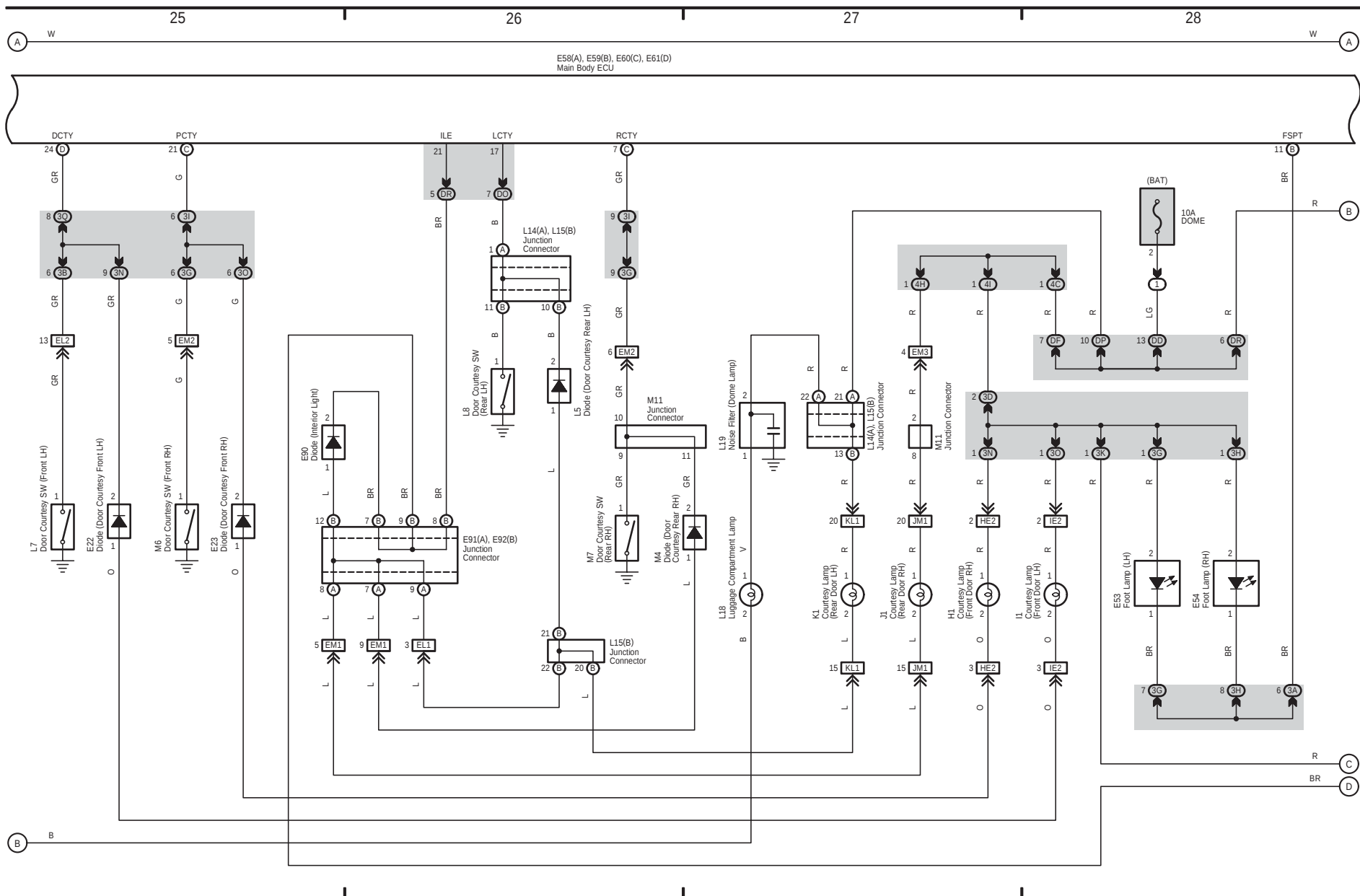
LEXUS ES 350 (EMO1YOU)



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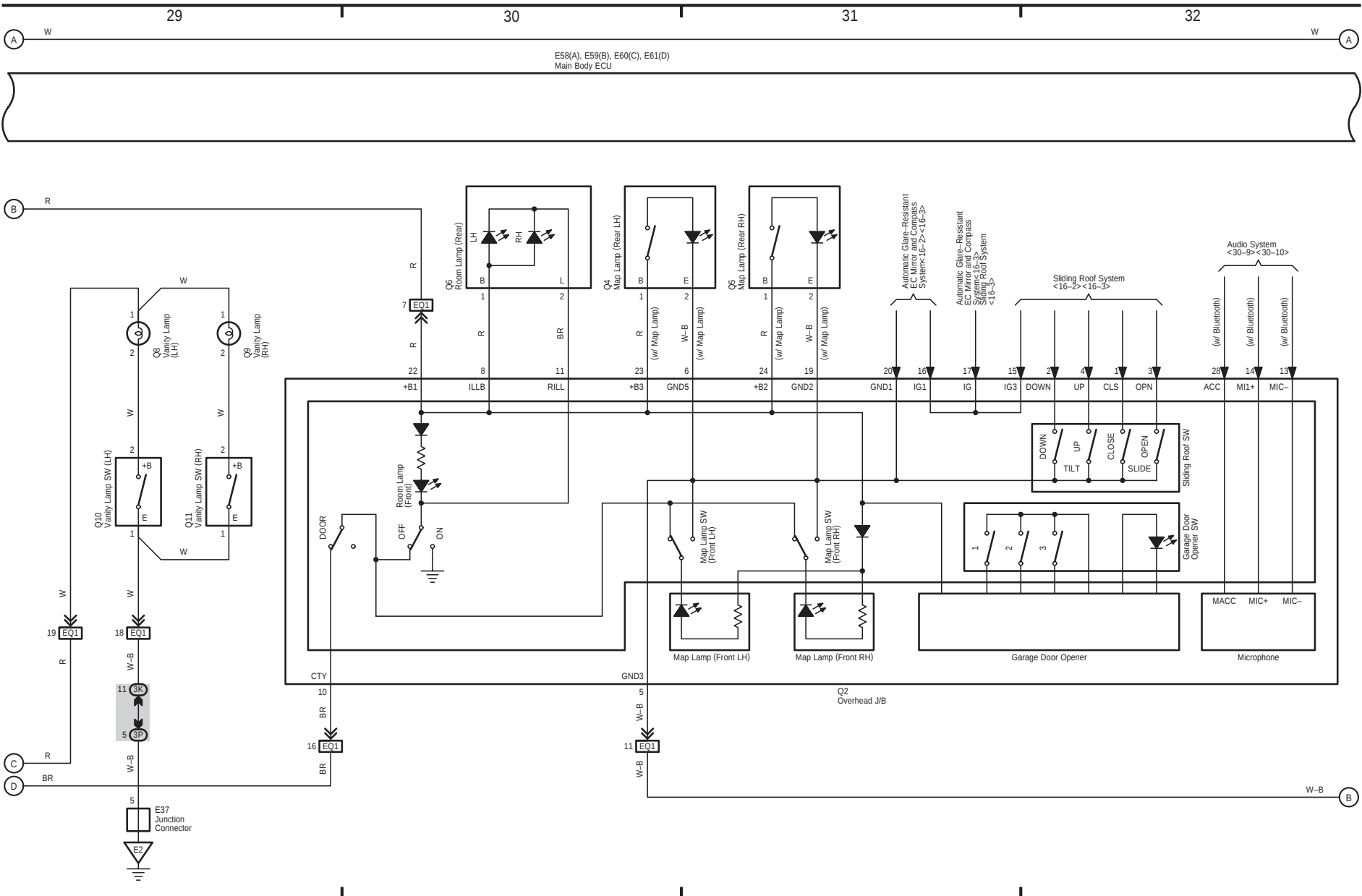
2 ES 350 (Cont' d)

Multiplex Communication System (CAN)

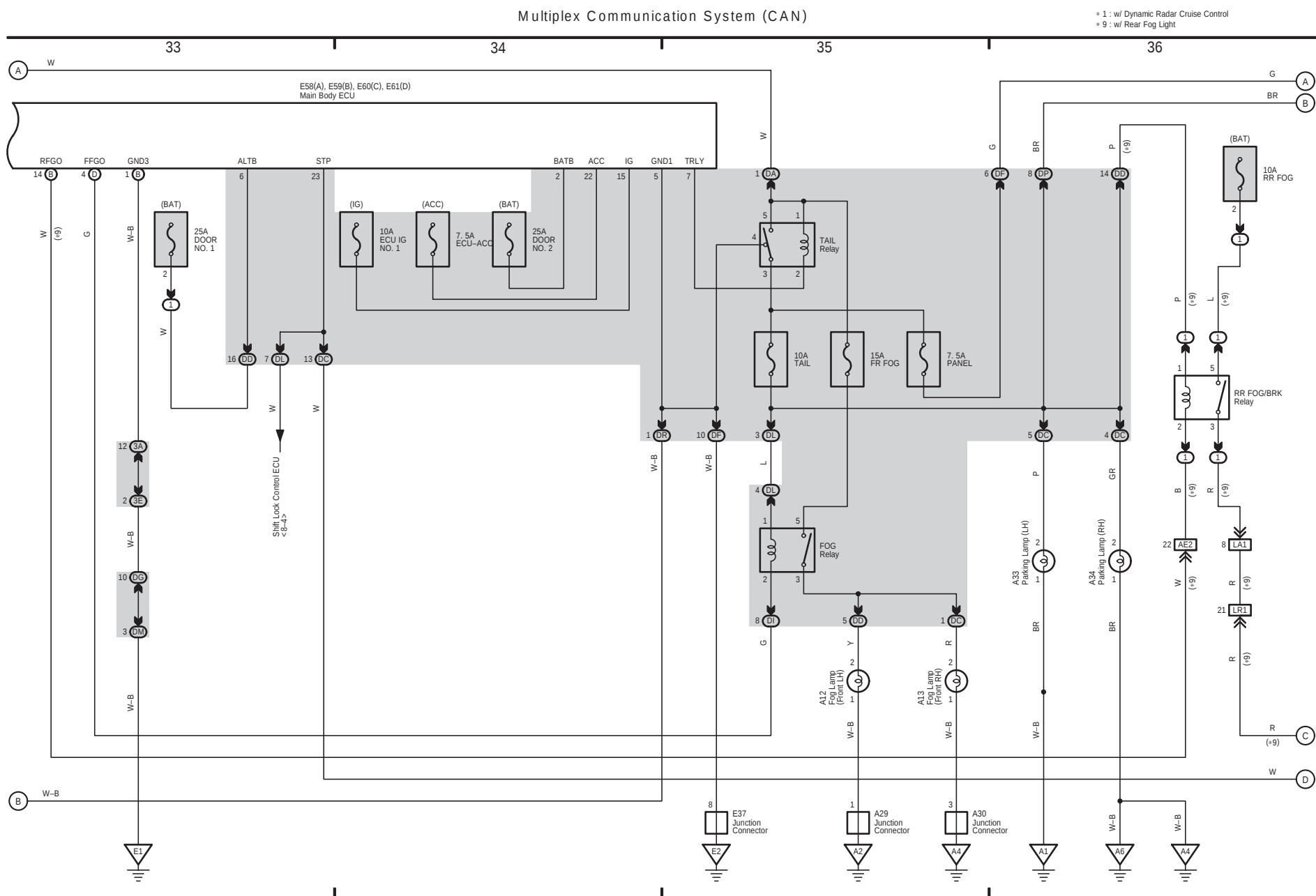


LEXUS ES 350 (EM01Y0U)

Multiplex Communication System (CAN)

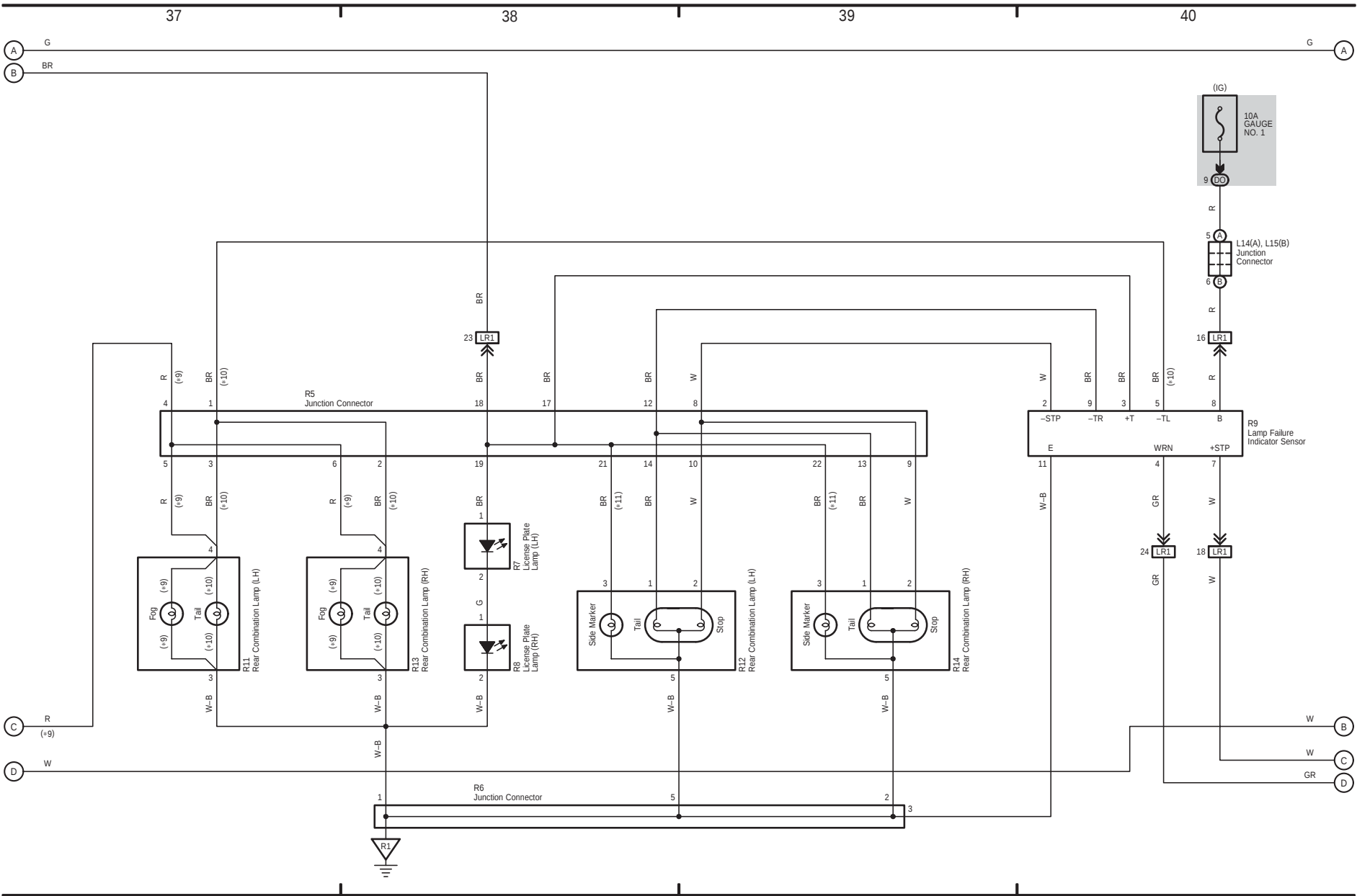


LEXUS ES 350 (EM01Y0U)

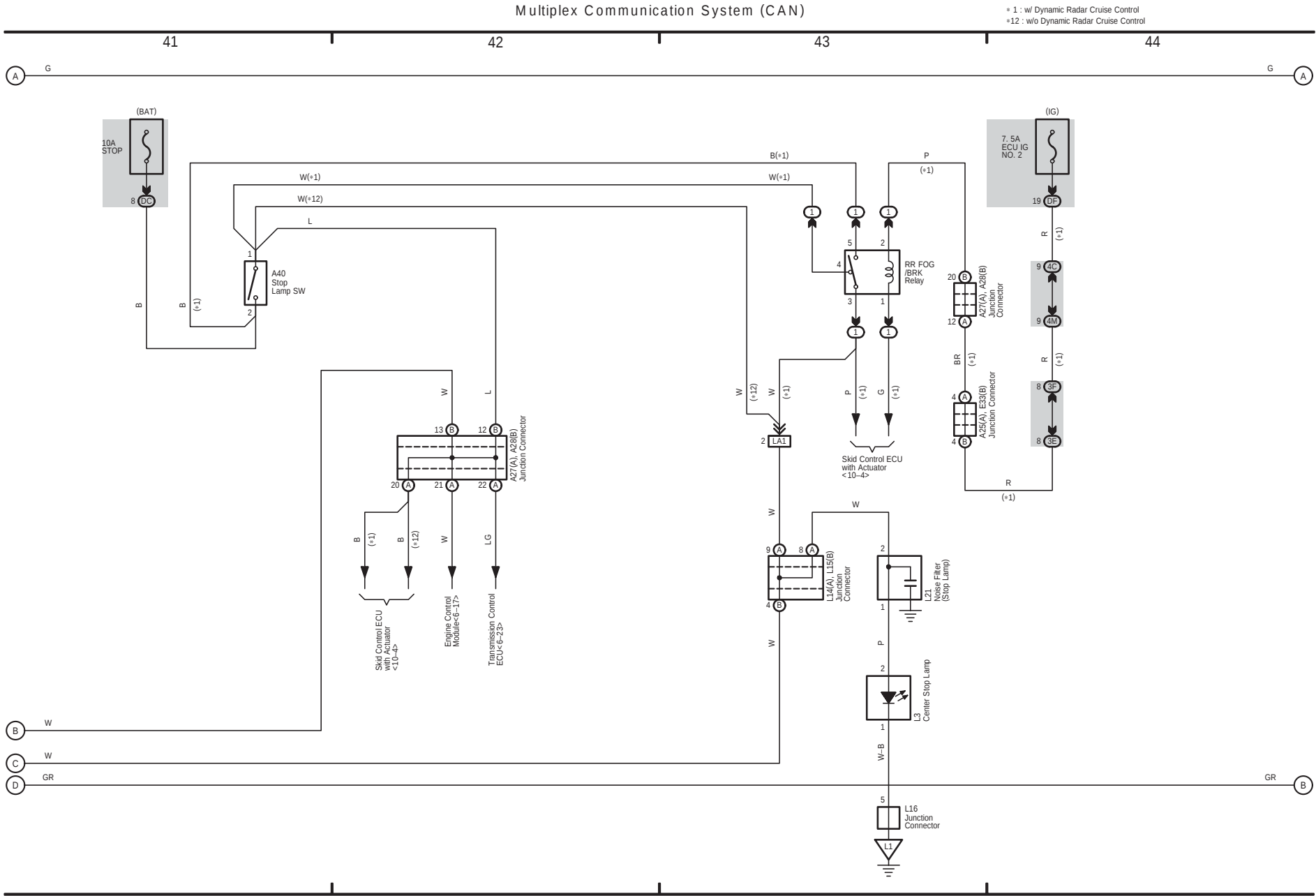


Multiplex Communication System (CAN)

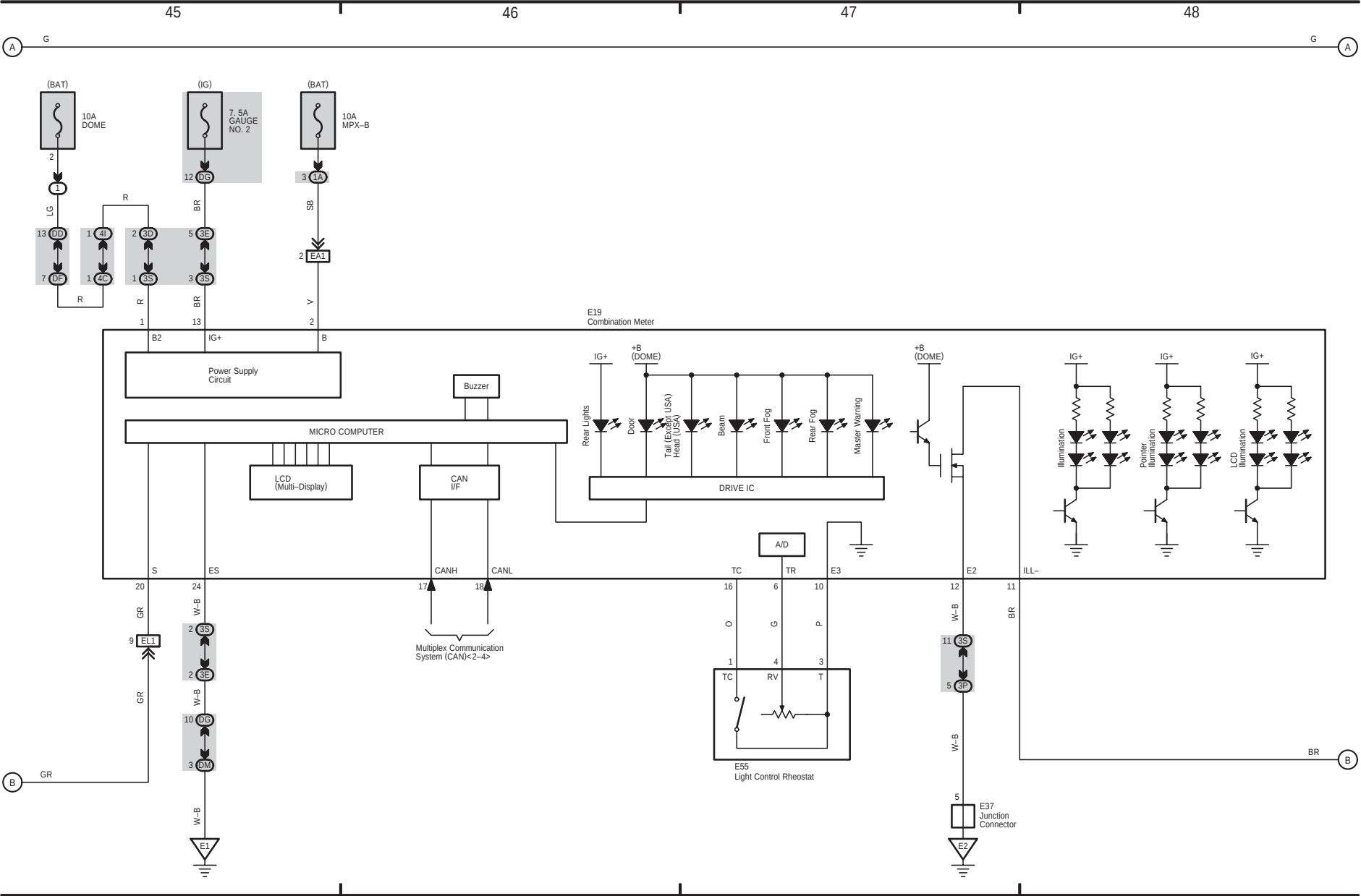
* 9 : w/ Rear Fog Light
*10 : w/o Rear Fog Light
*11 : w/ Side Marker



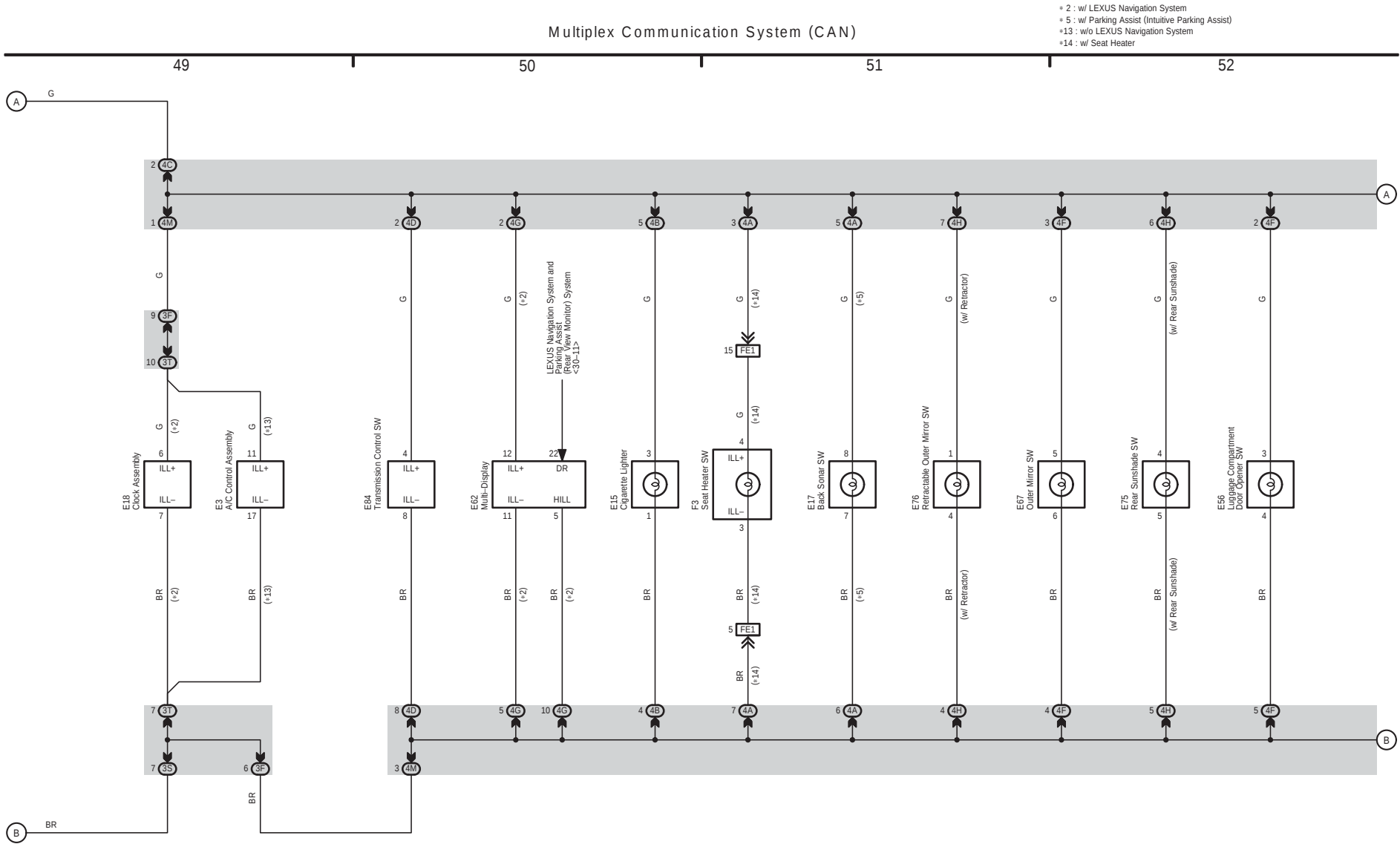
LEXUS ES 350 (EM01Y0U)



Multiplex Communication System (CAN)



LEXUS ES 350 (EM01Y0U)



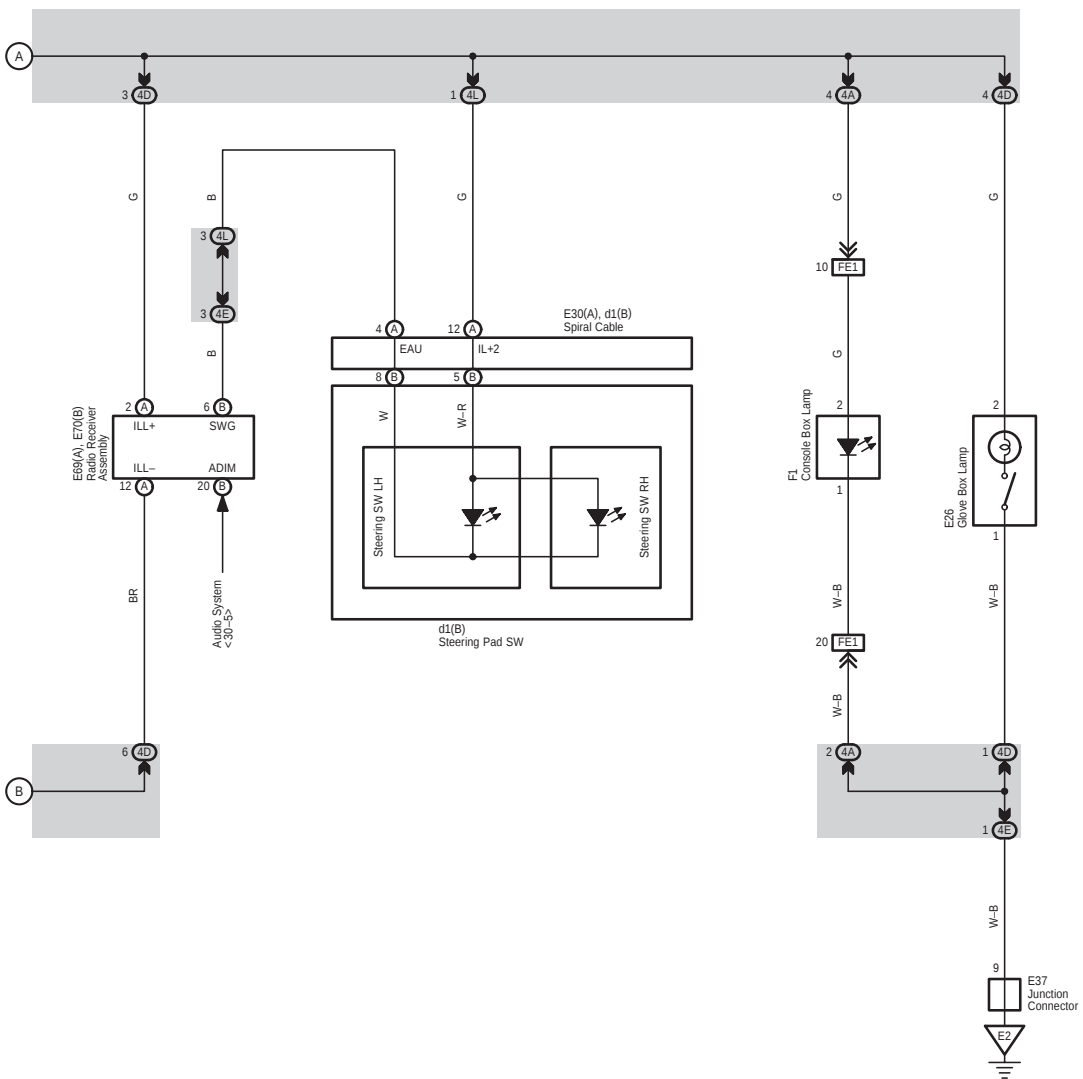
Multiplex Communication System (CAN)

53

54

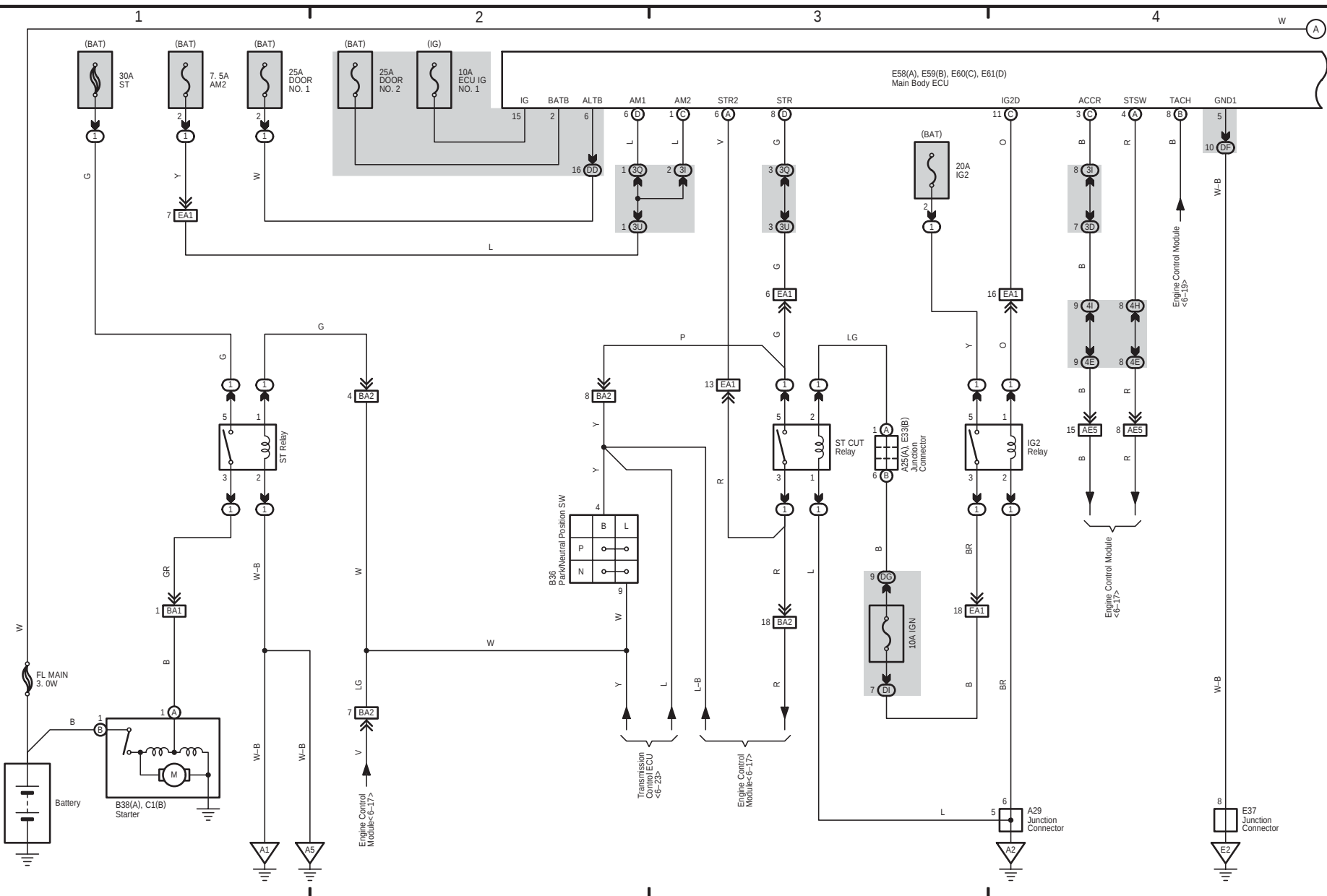
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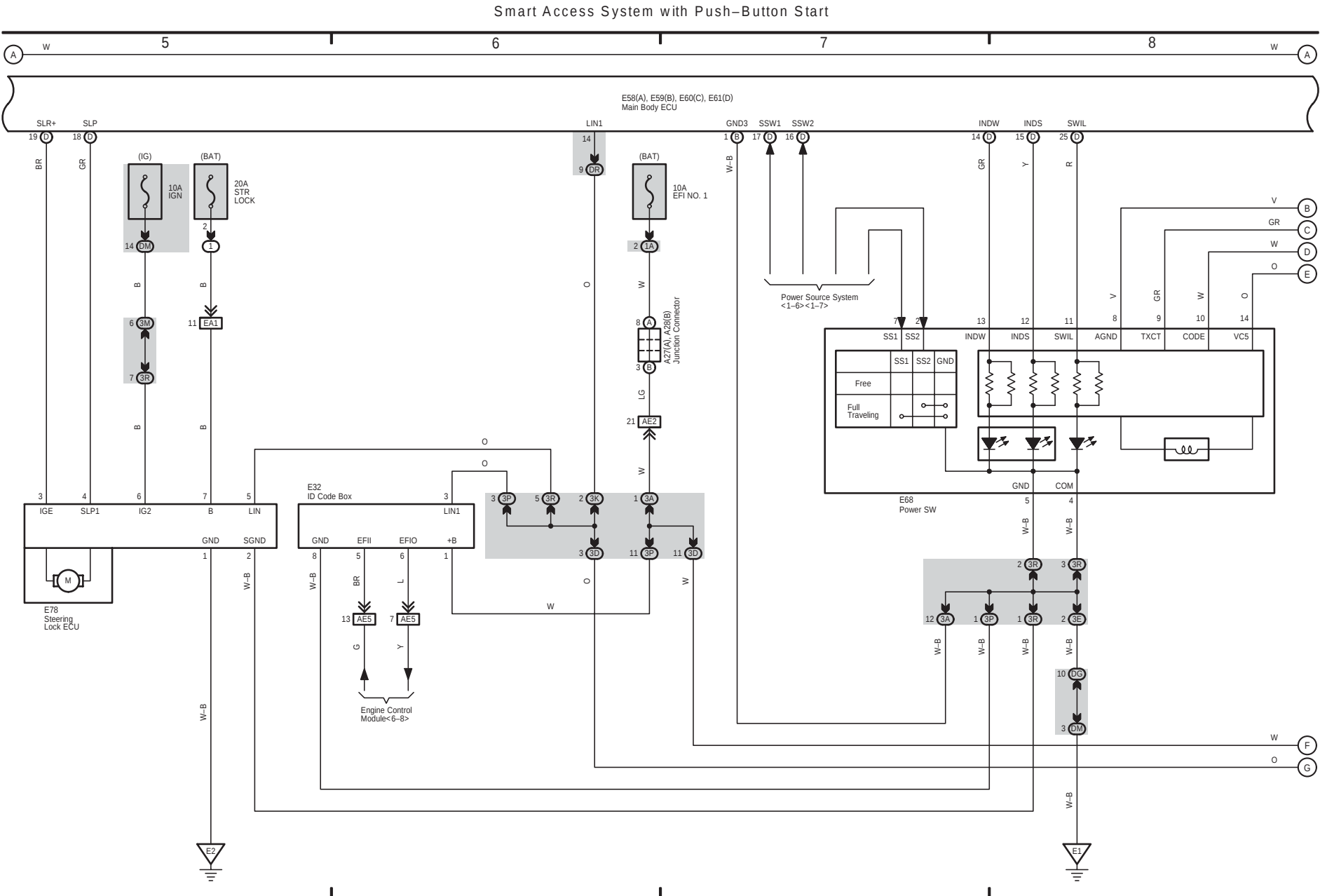


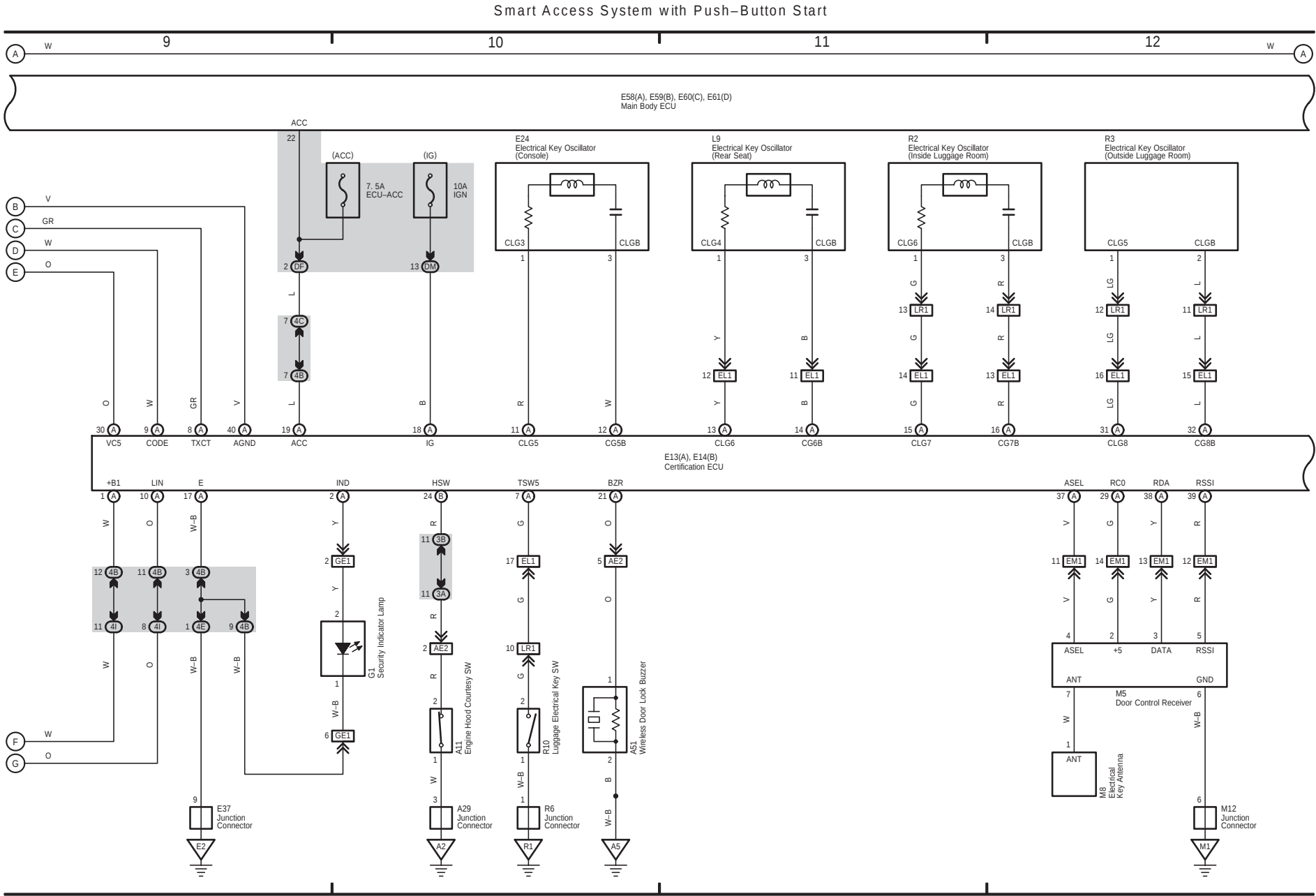
LEXUS ES 350 (EM01Y0U)

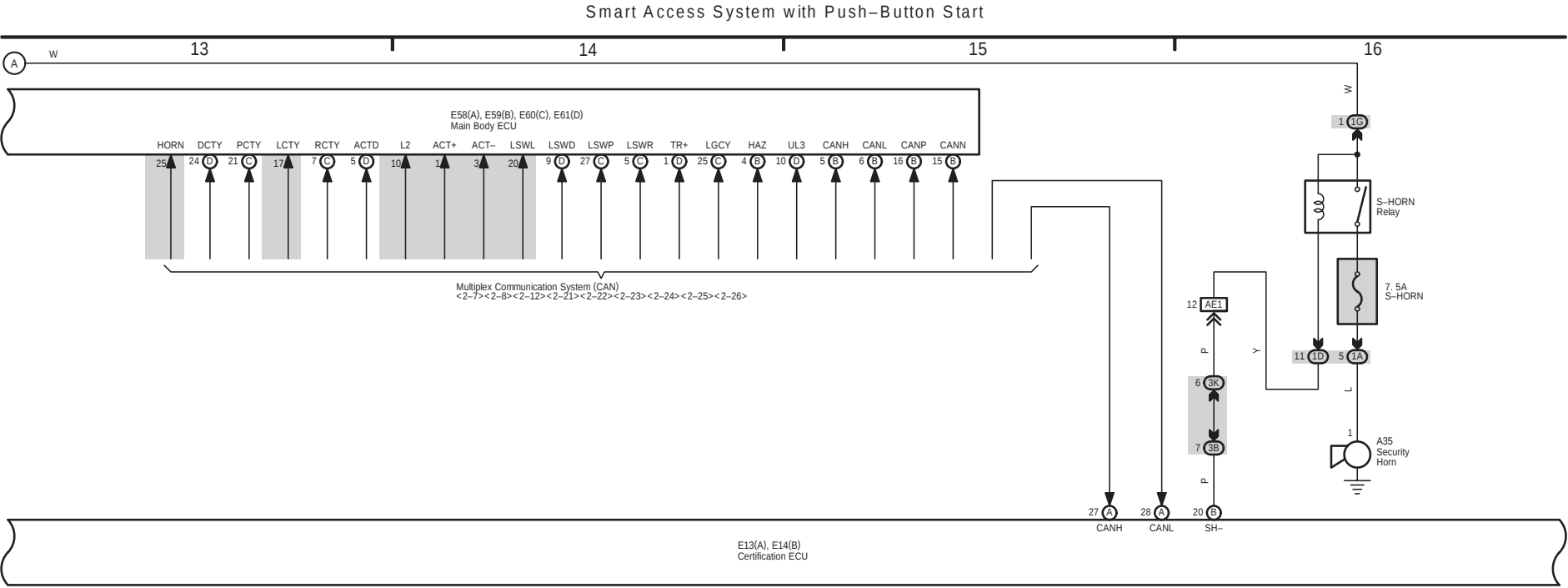
Smart Access System with Push-Button Start

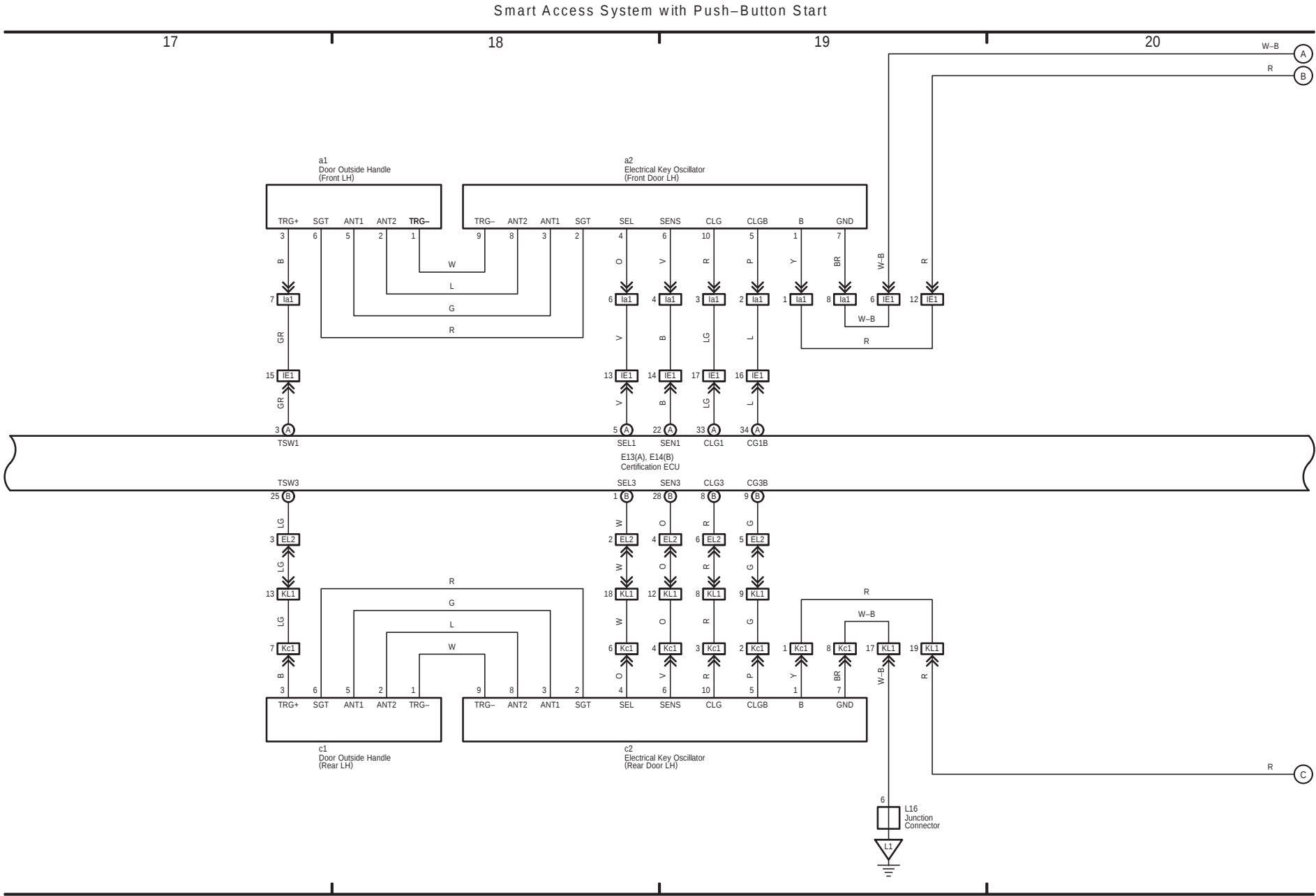


LEXUS ES 350 (EM01Y0U)

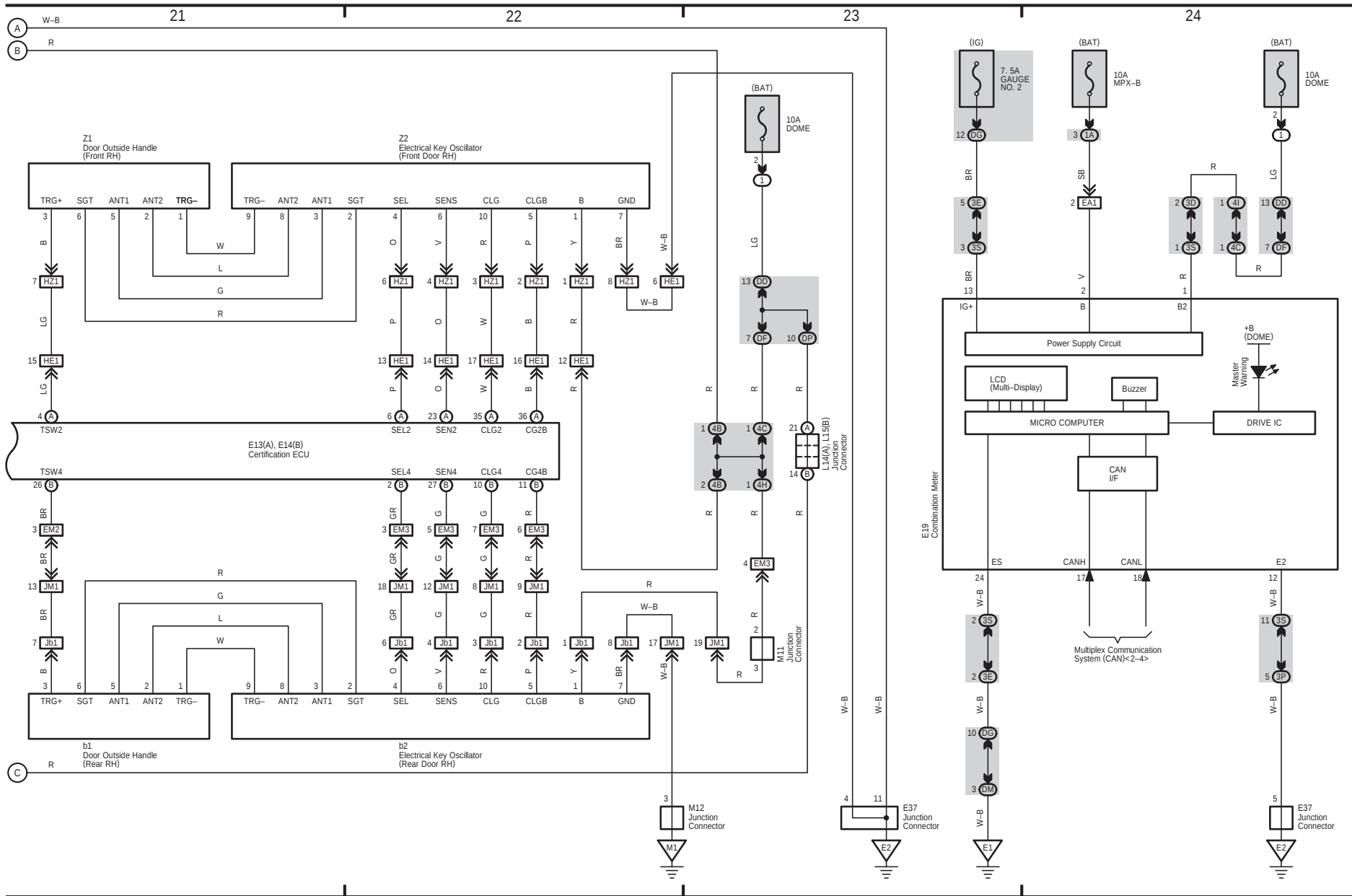






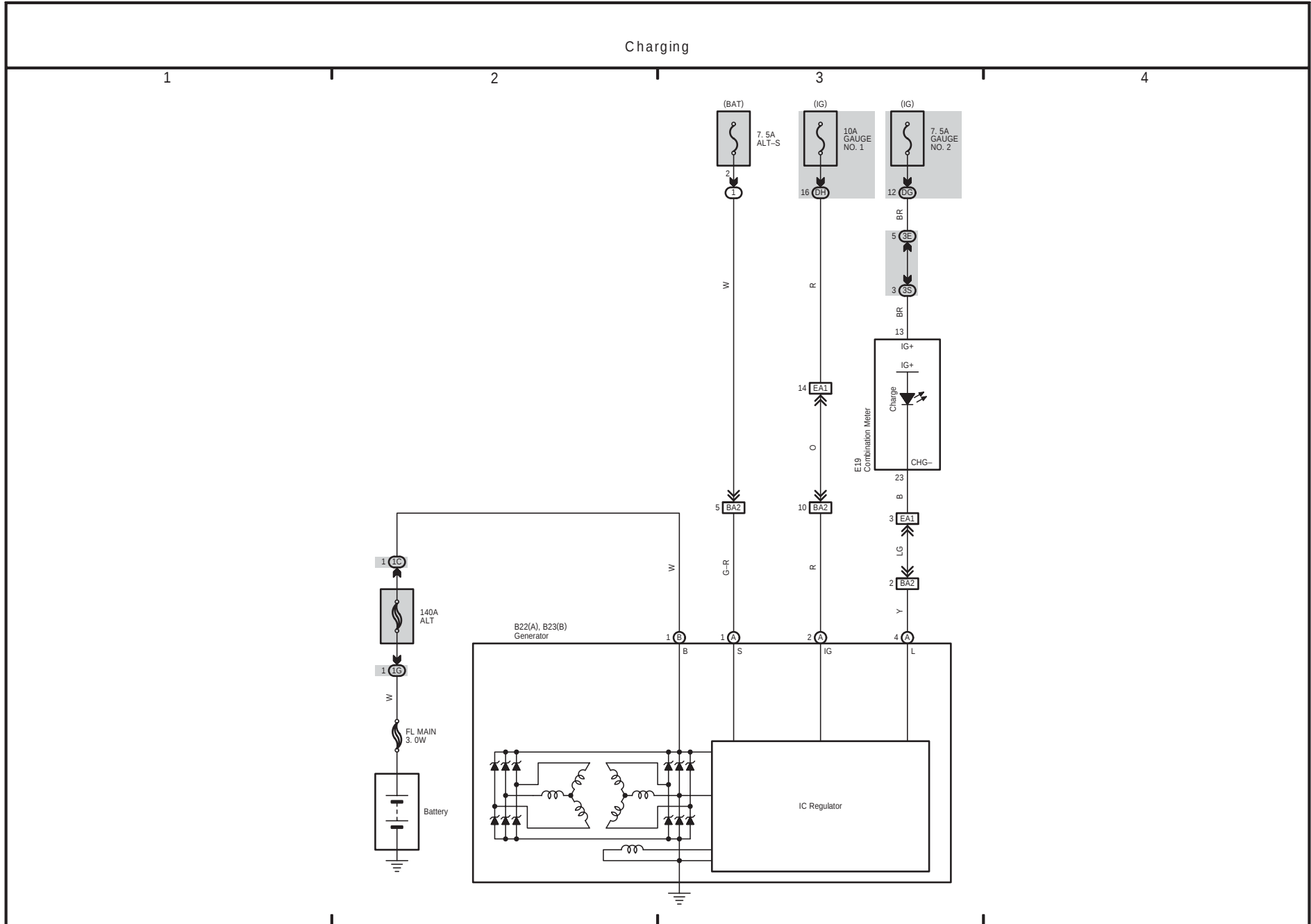


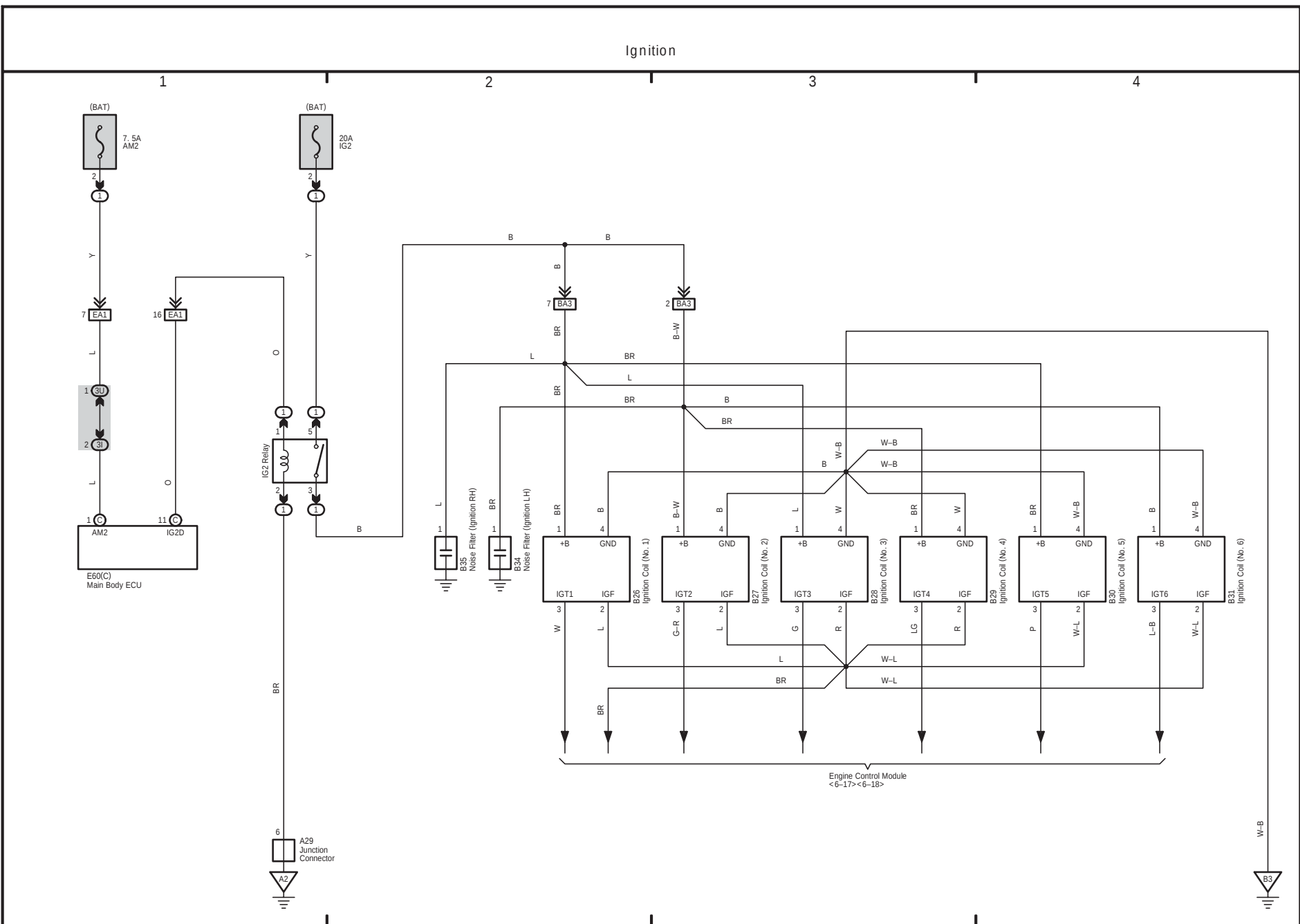
Smart Access System with Push-Button Start

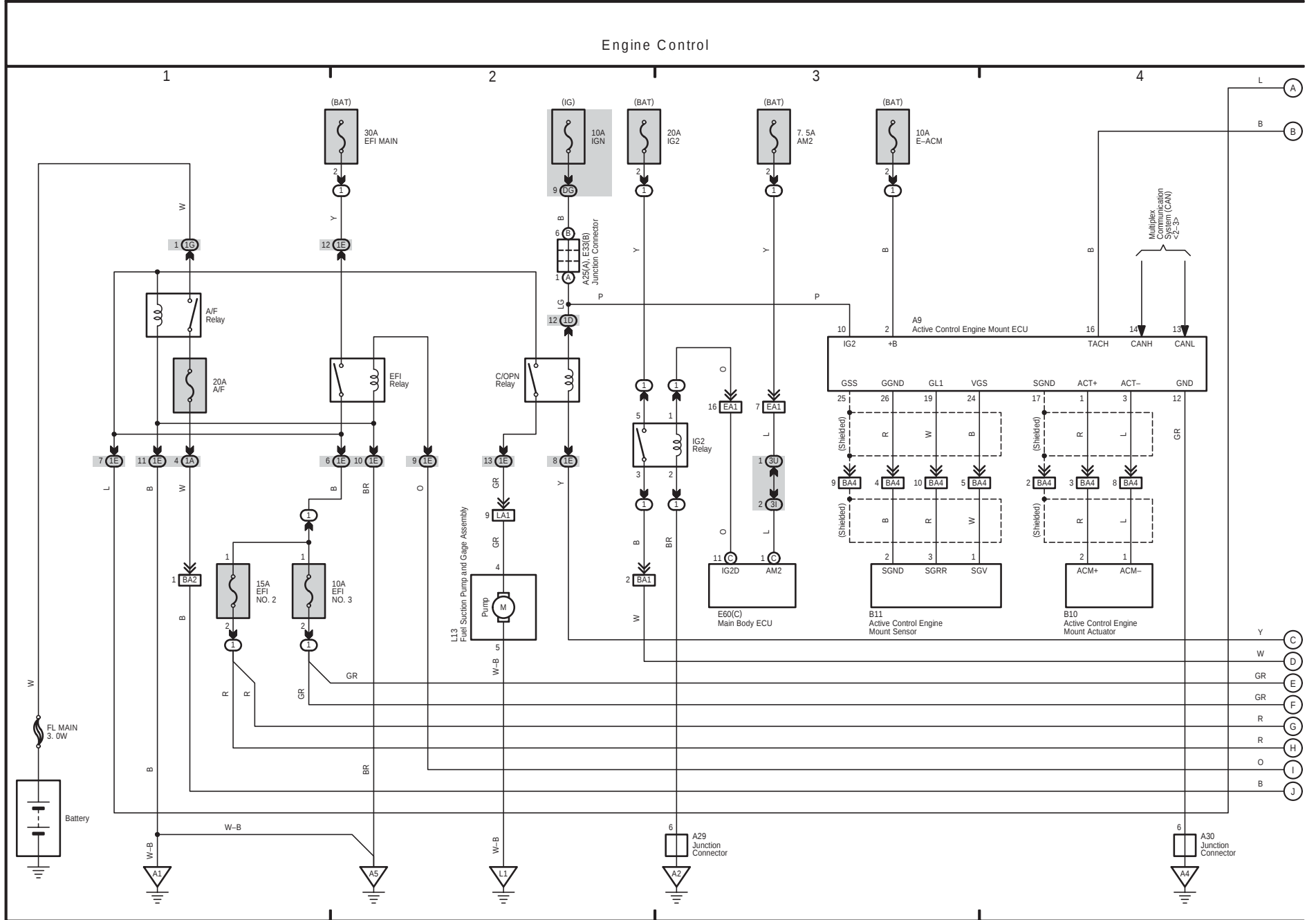


LEXUS ES 350 (EM01Y0U)

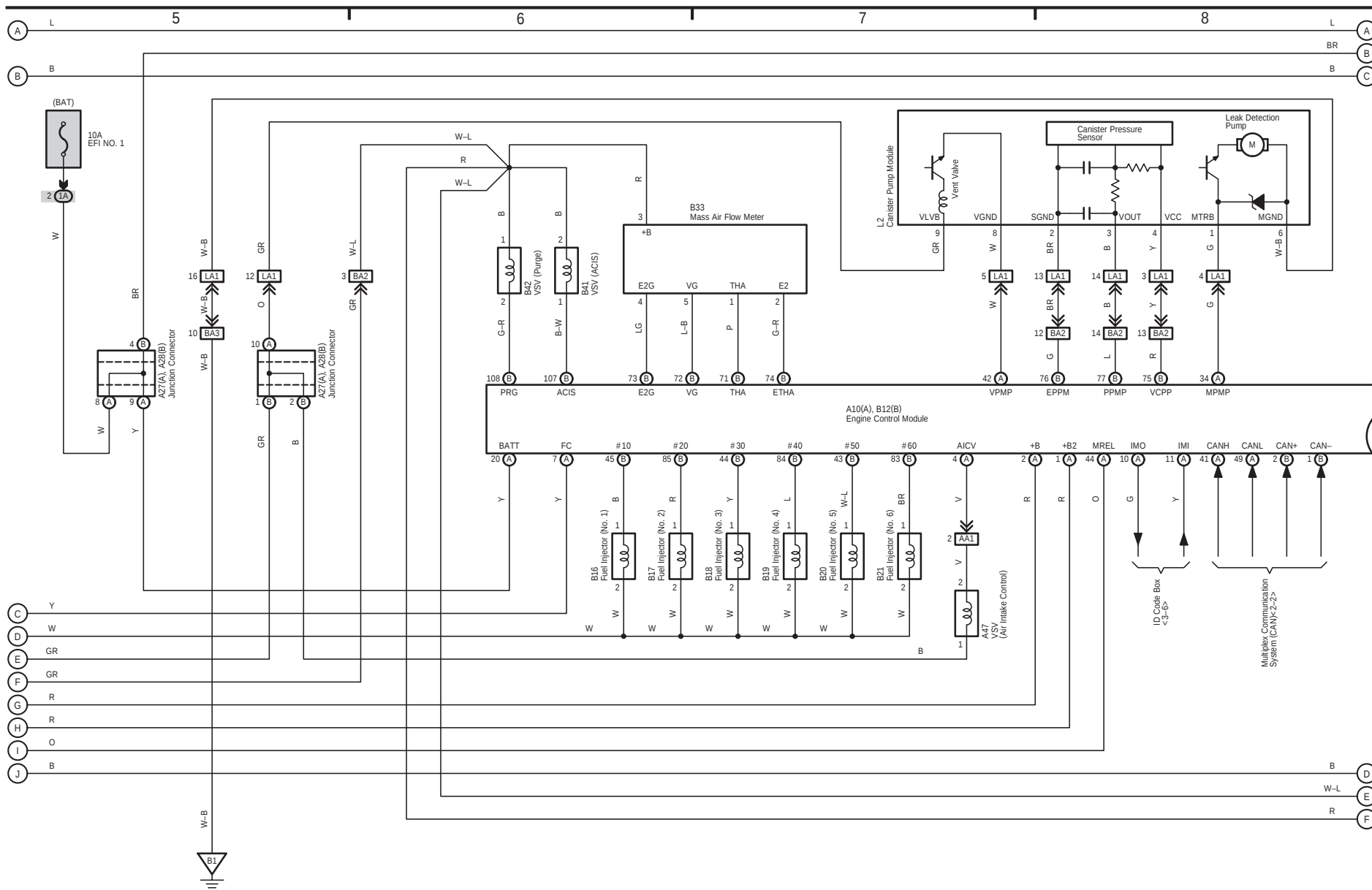
4 ES 350

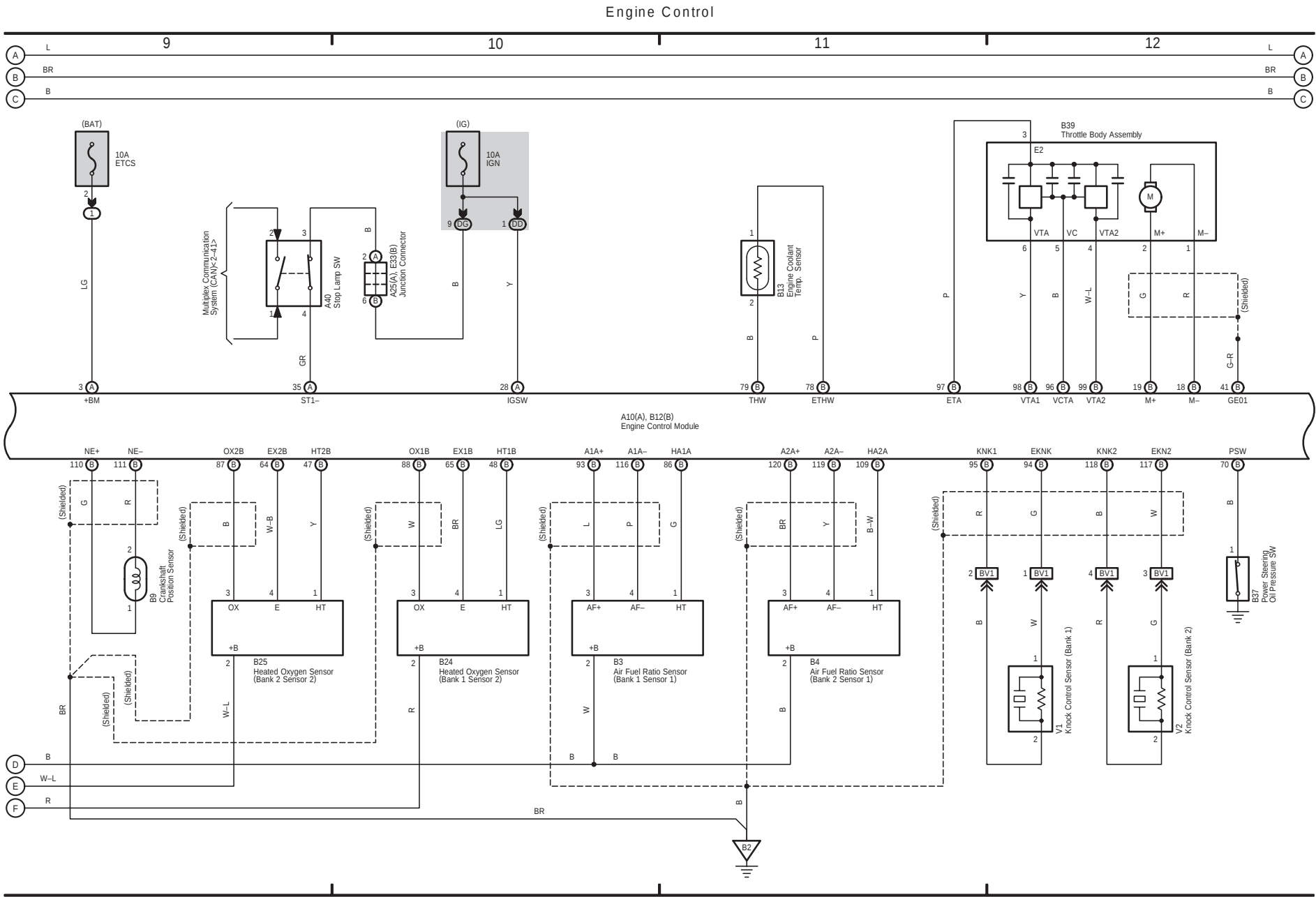




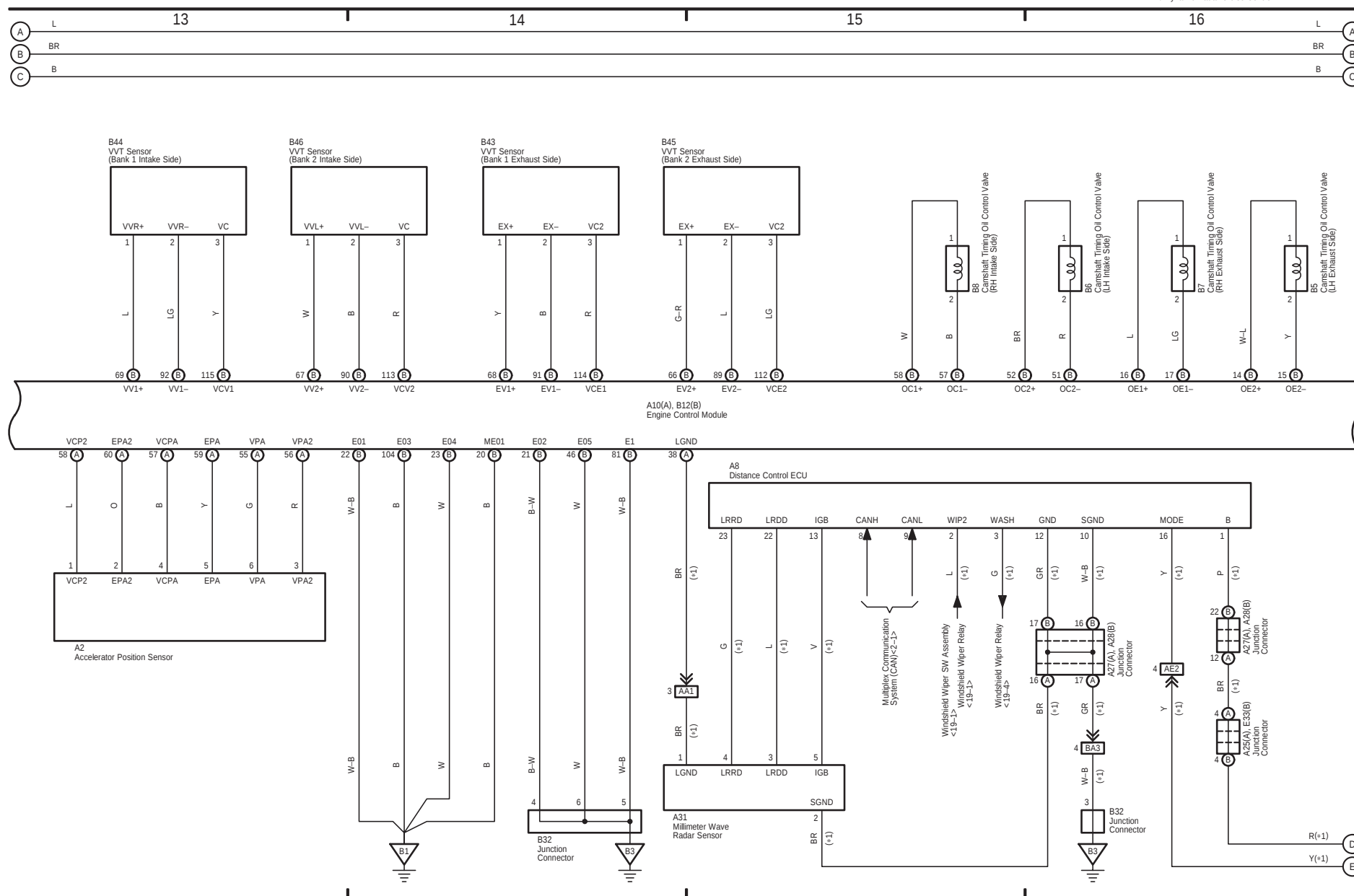


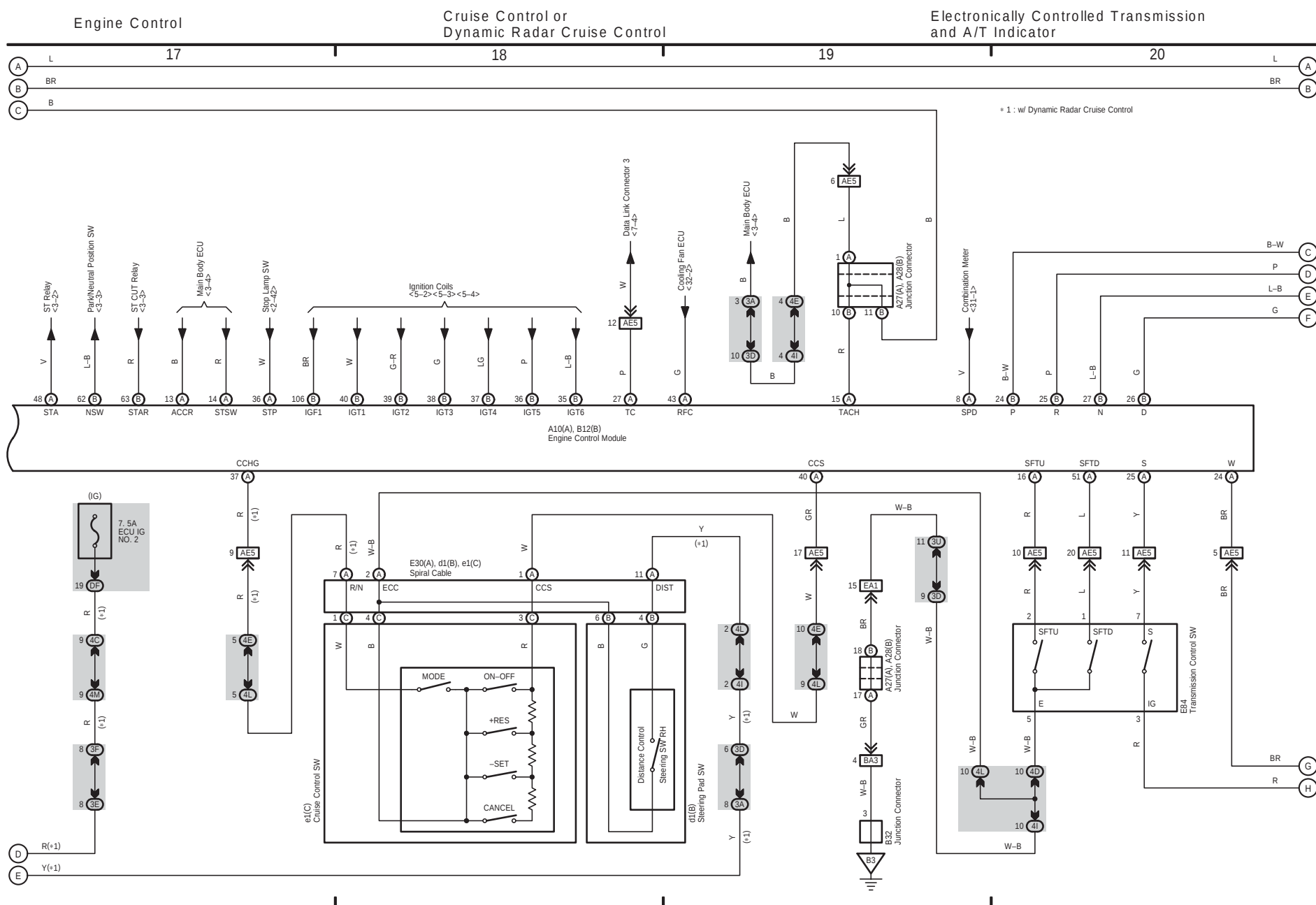
Engine Control



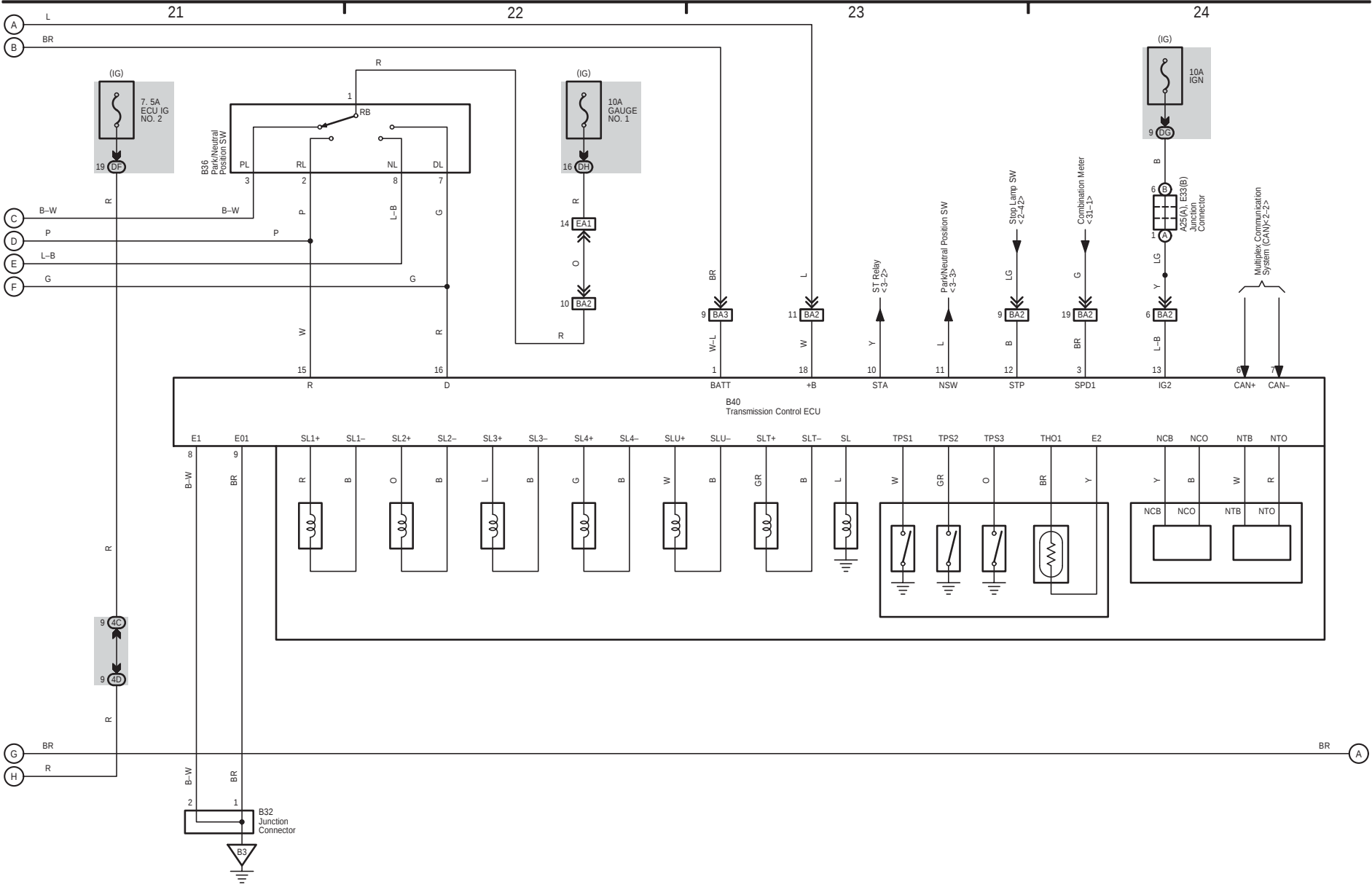


* 1 : w/ Dynamic Radar Cruise Control



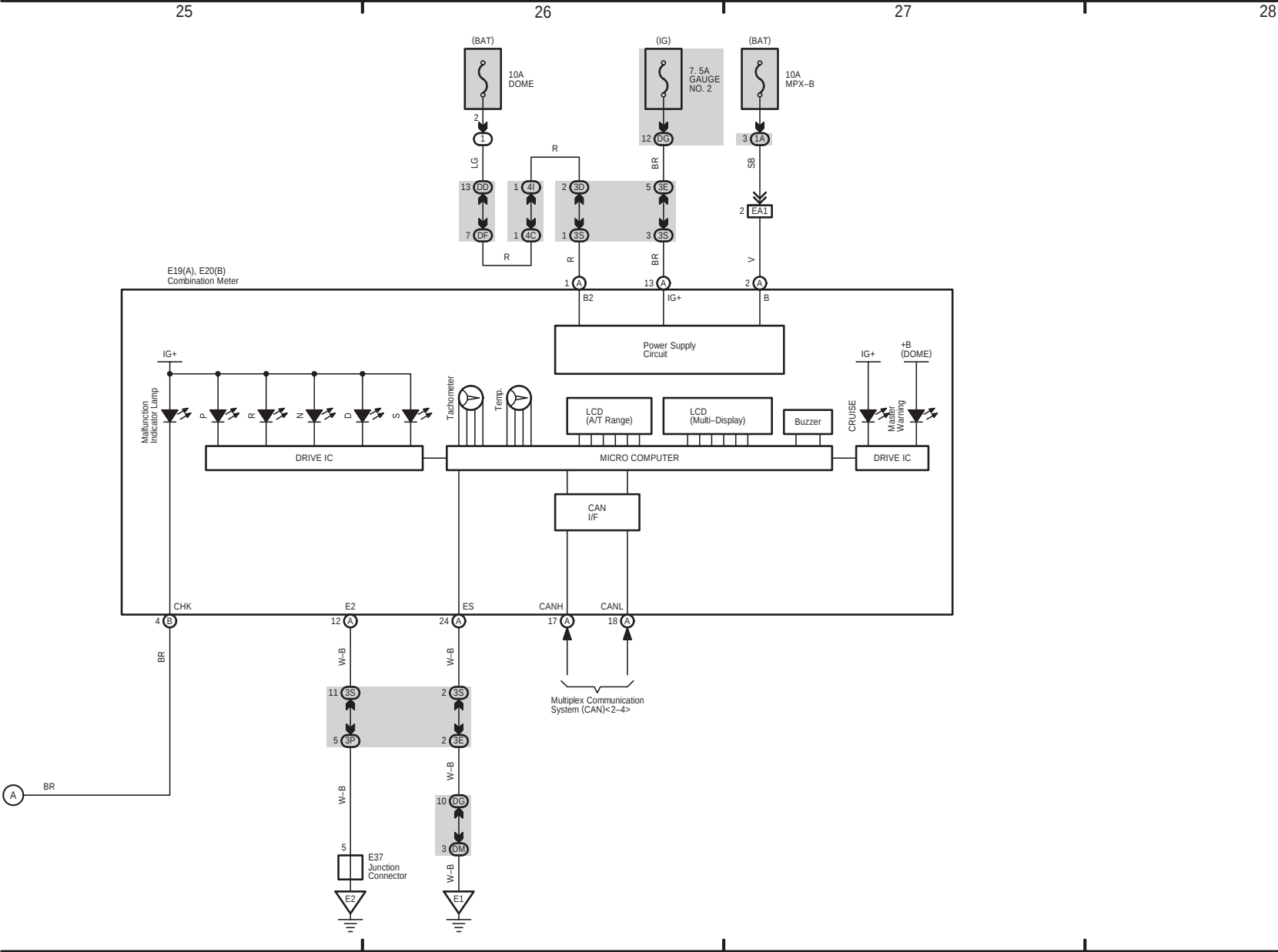


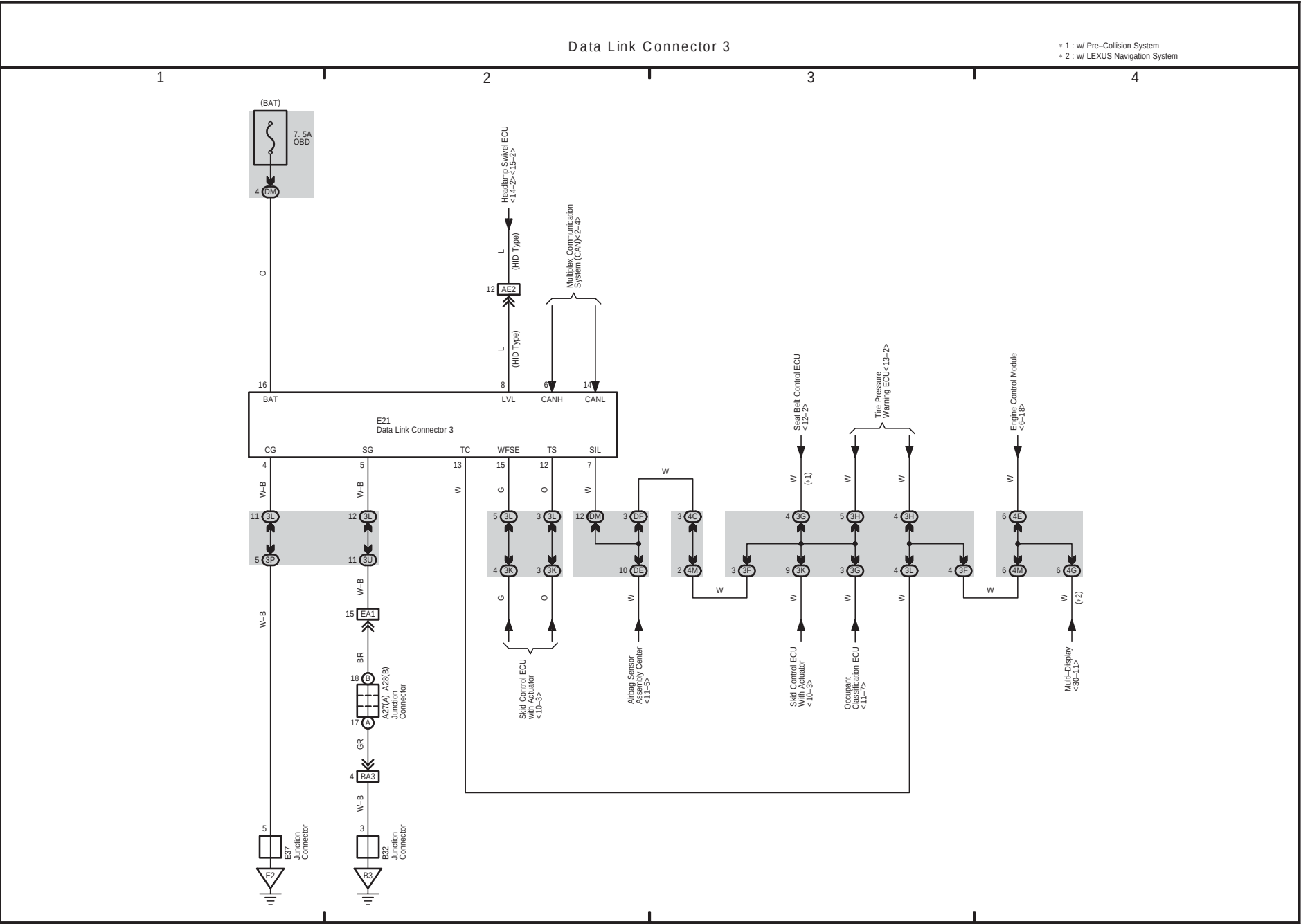
Electronically Controlled Transmission and A/T Indicator

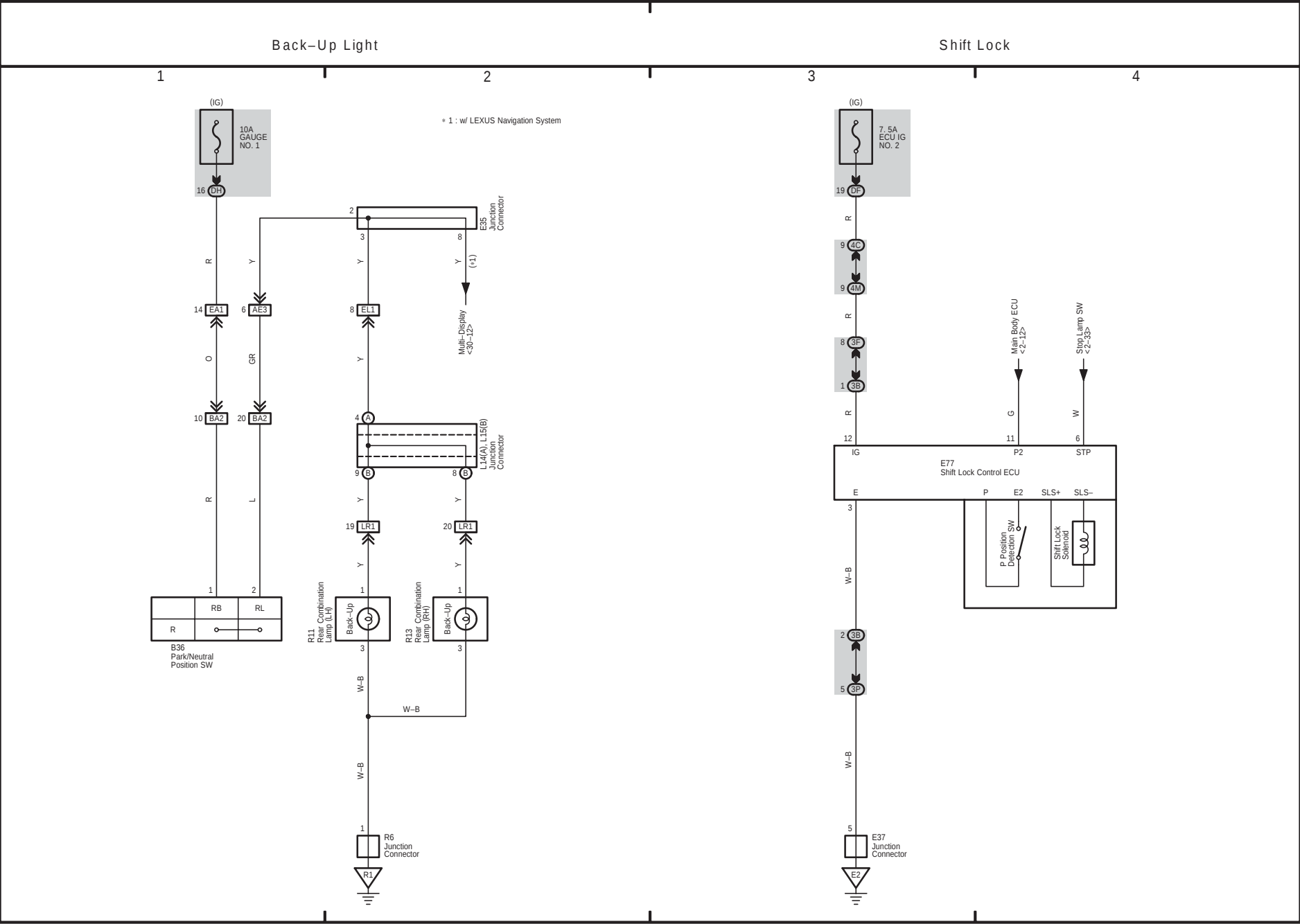


LEXUS ES 350 (EM01Y0U)

Electronically Controlled Transmission and A/T Indicator

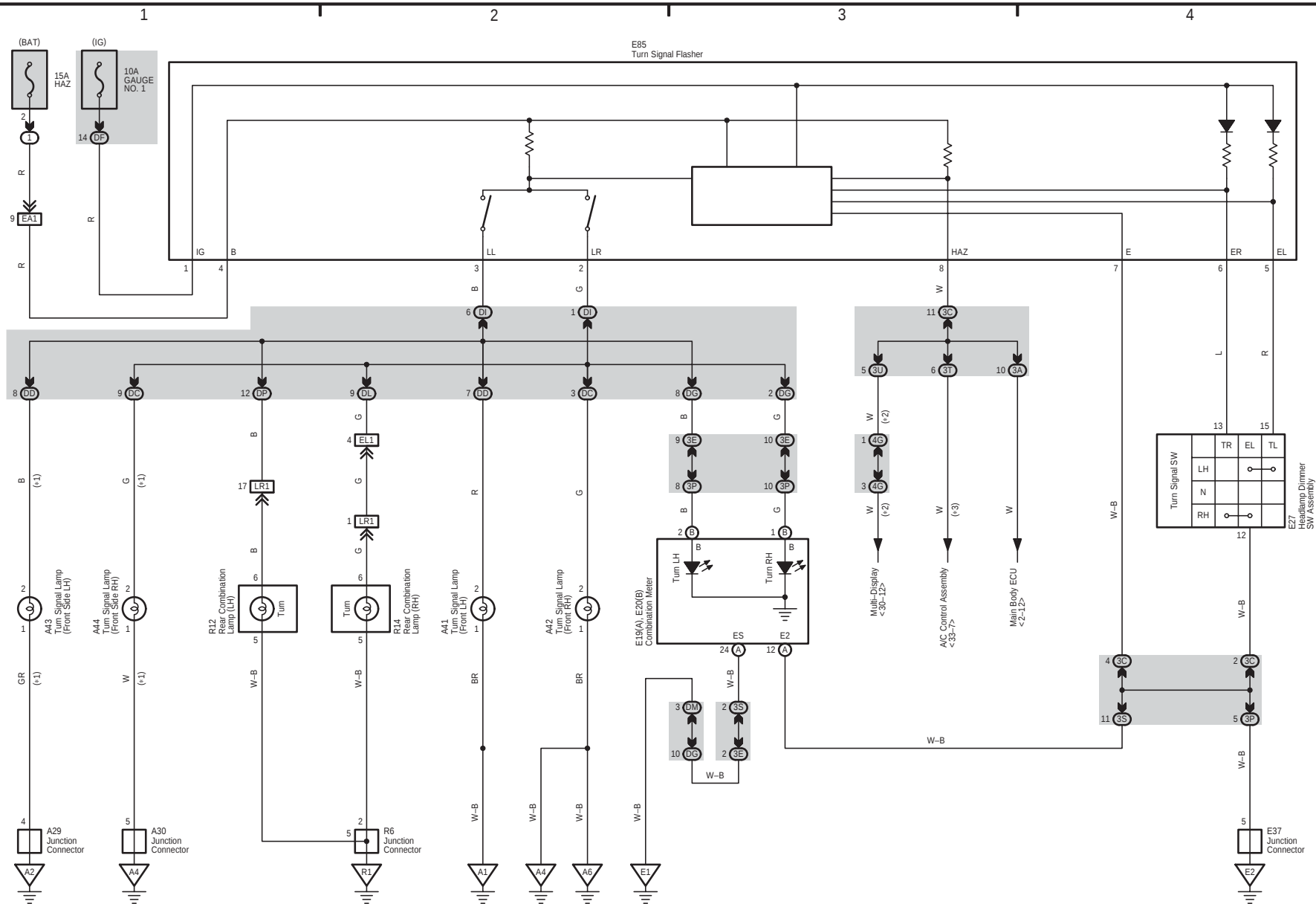


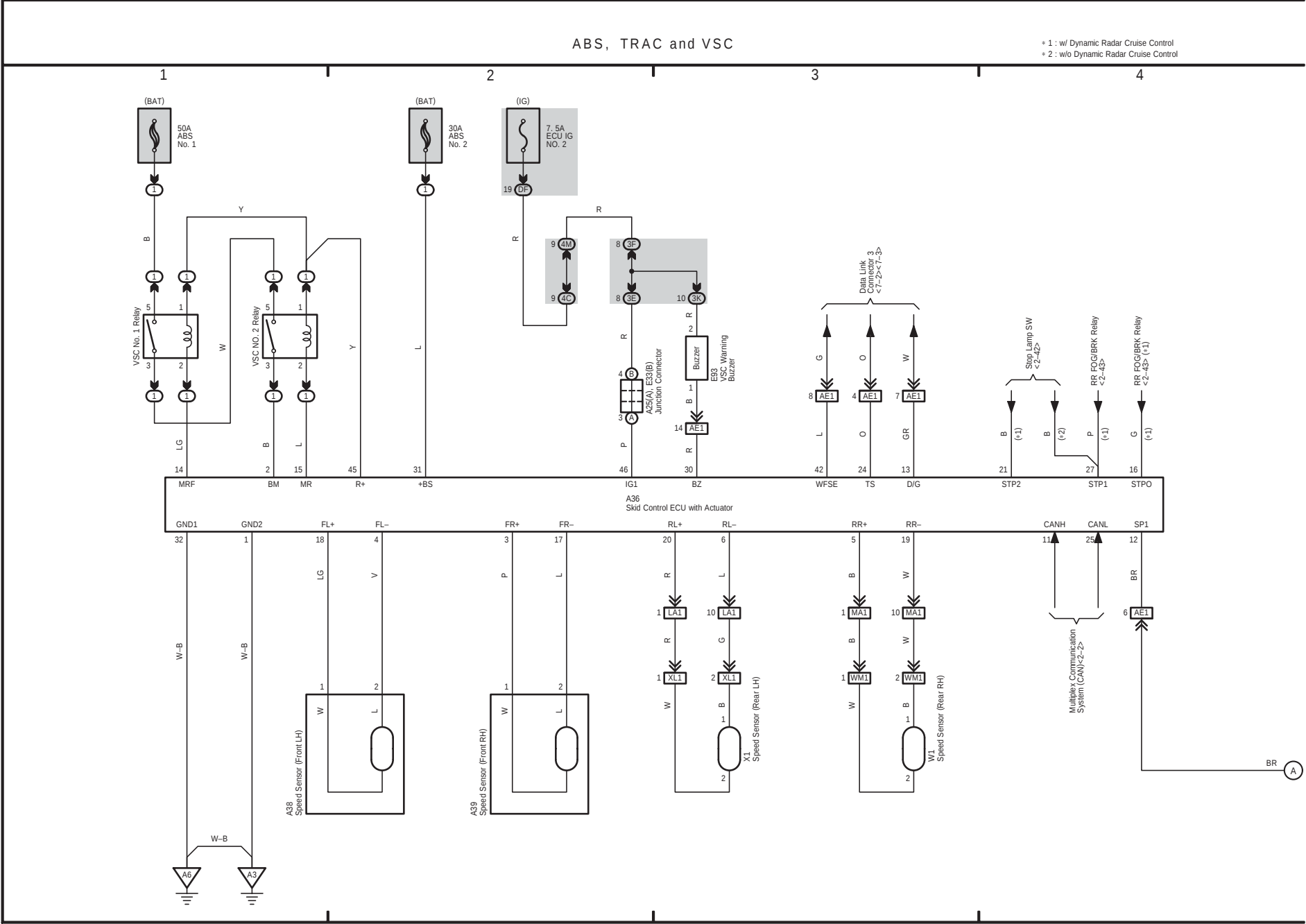




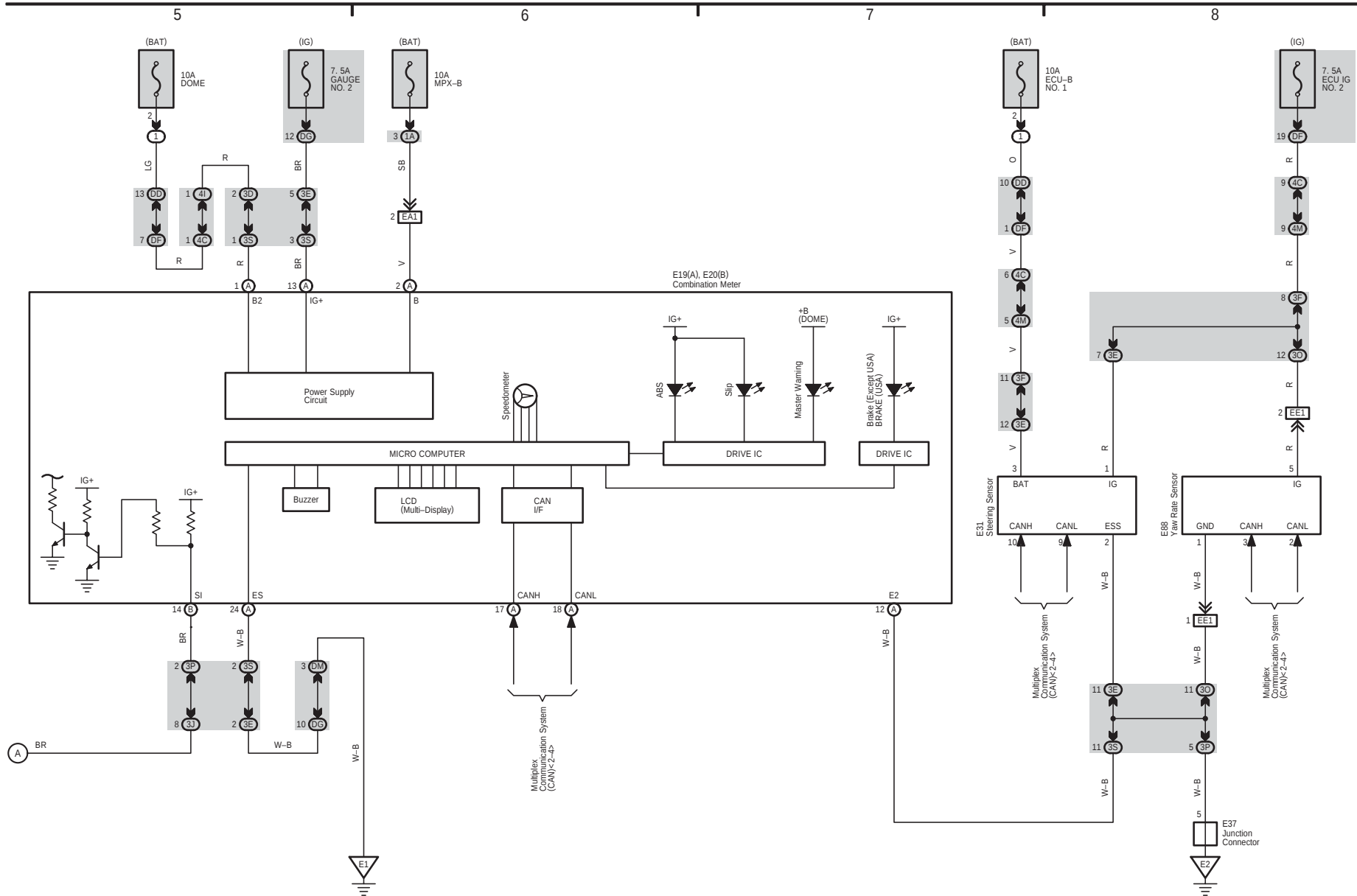
Turn Signal and Hazard Warning Light

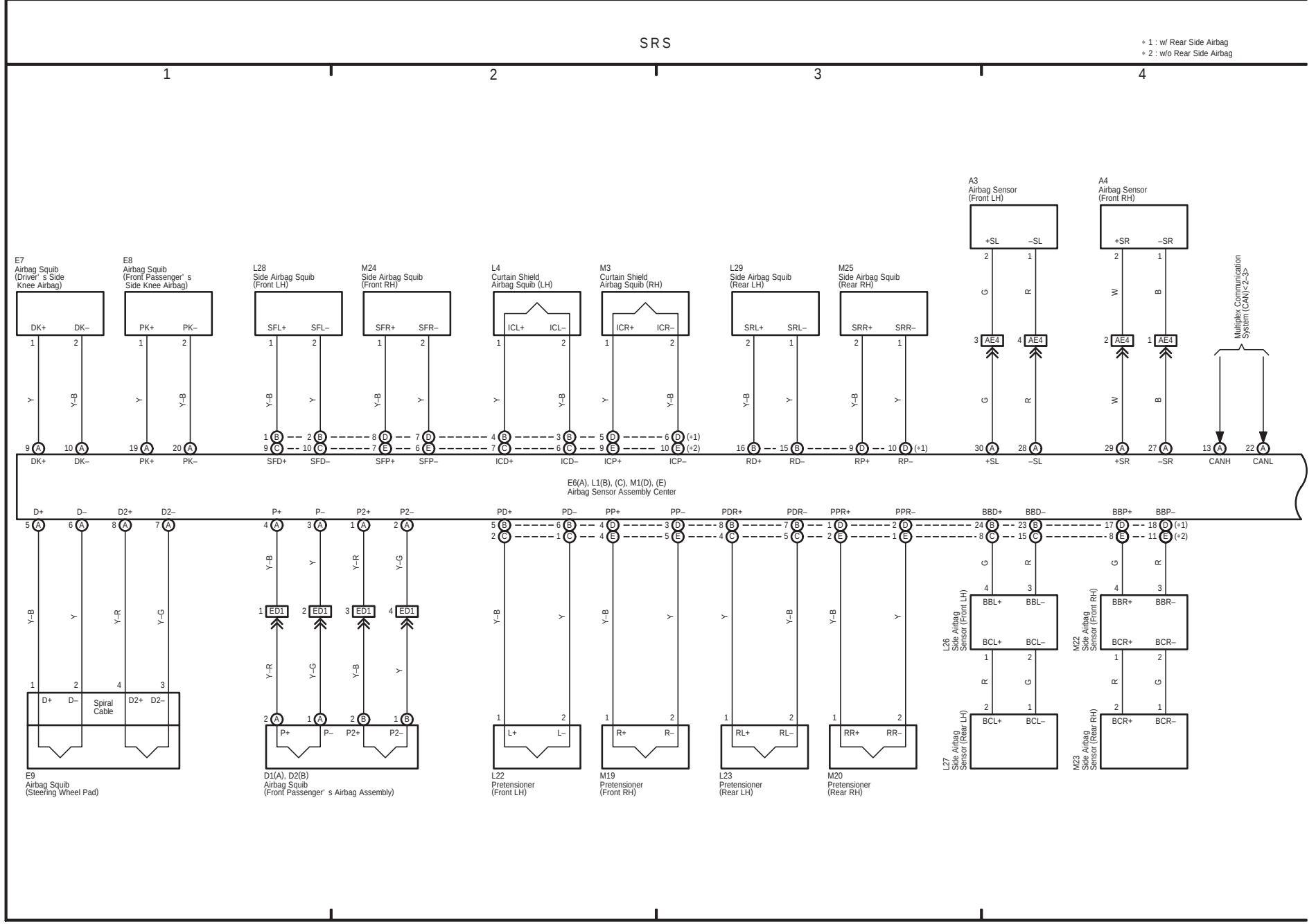
- * 1 : Korea, Taiwan
- * 2 : w/ LEXUS Navigation System
- * 3 : w/o LEXUS Navigation System





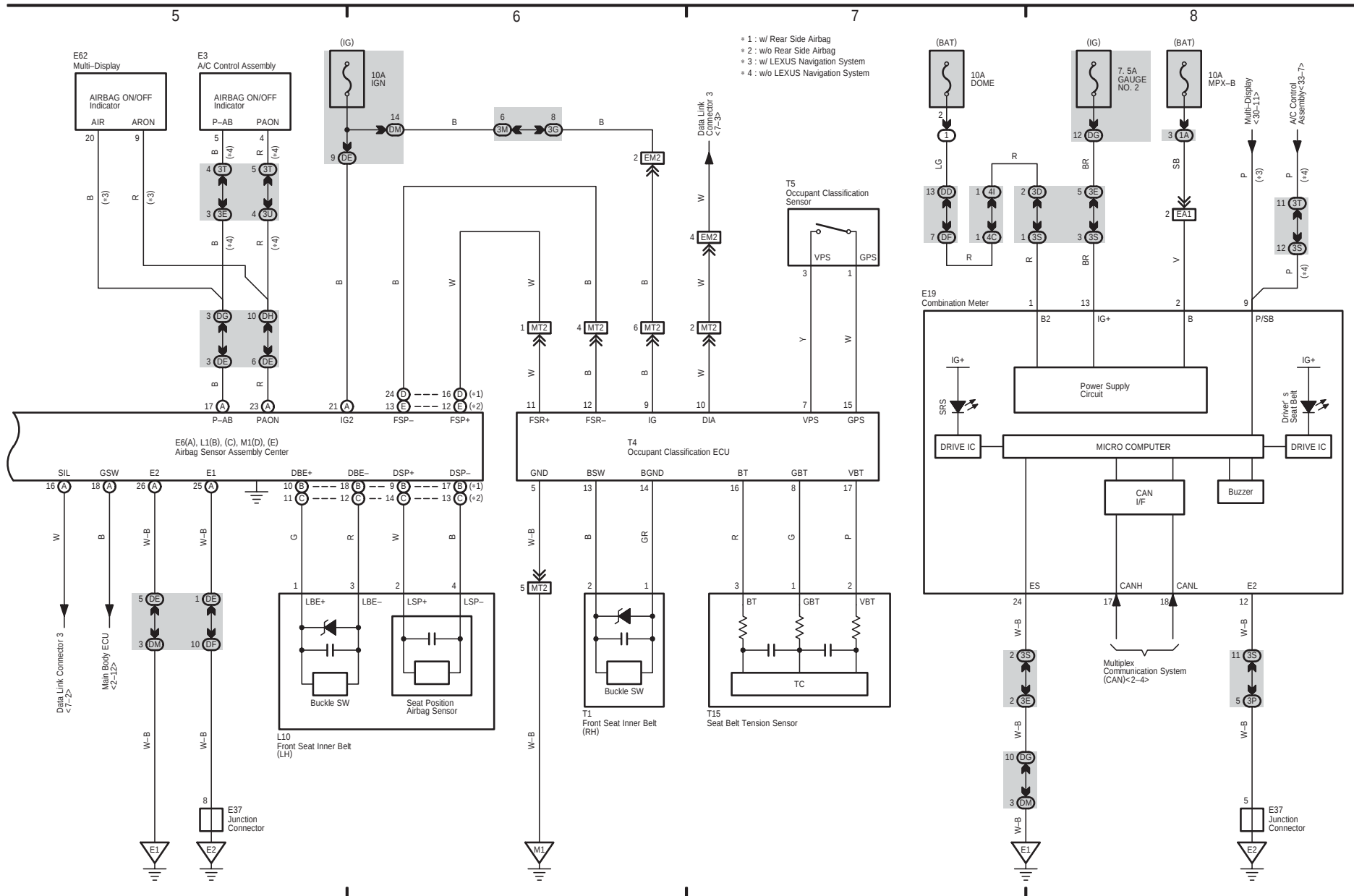
ABS, TRAC and VSC



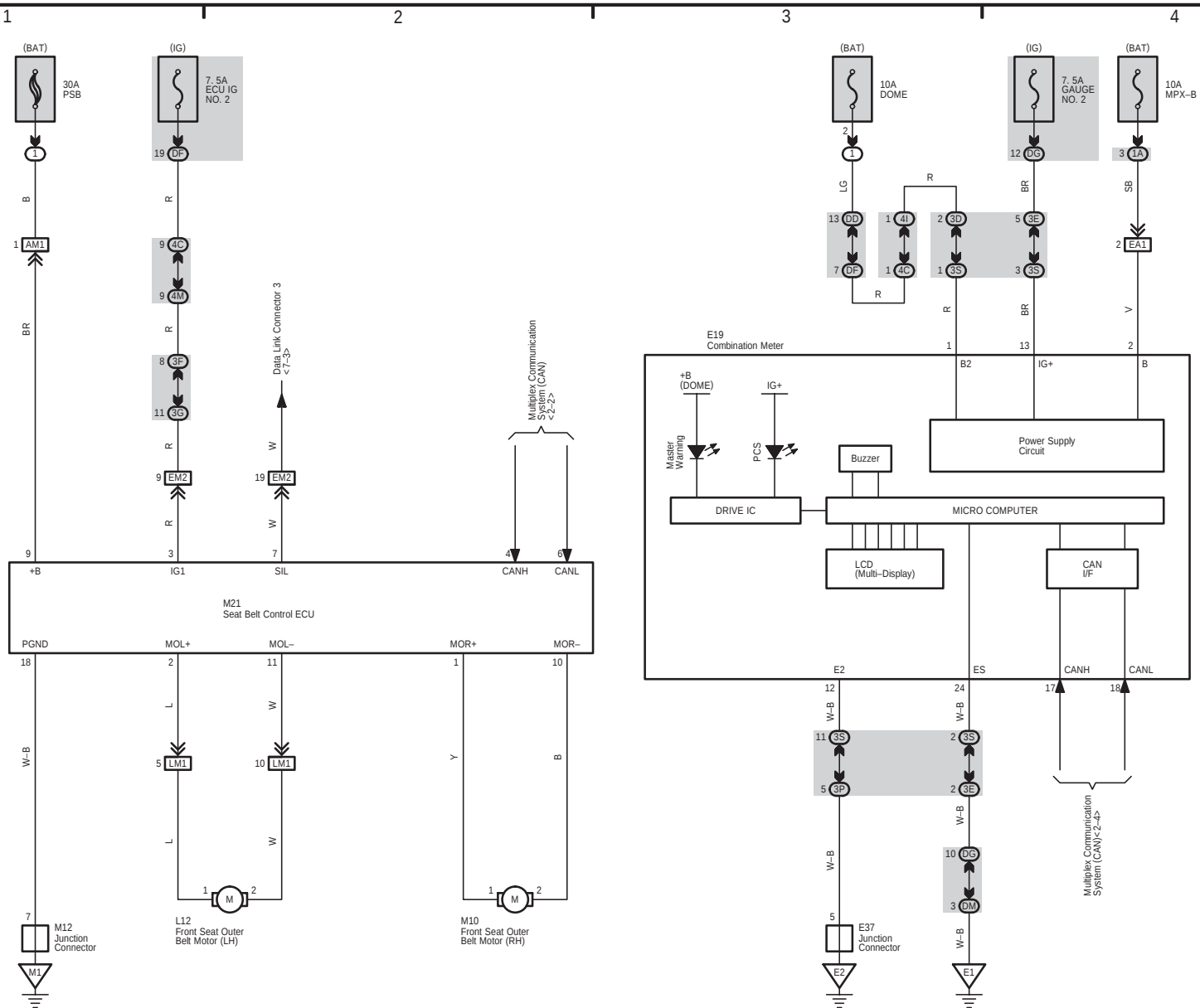


SRS

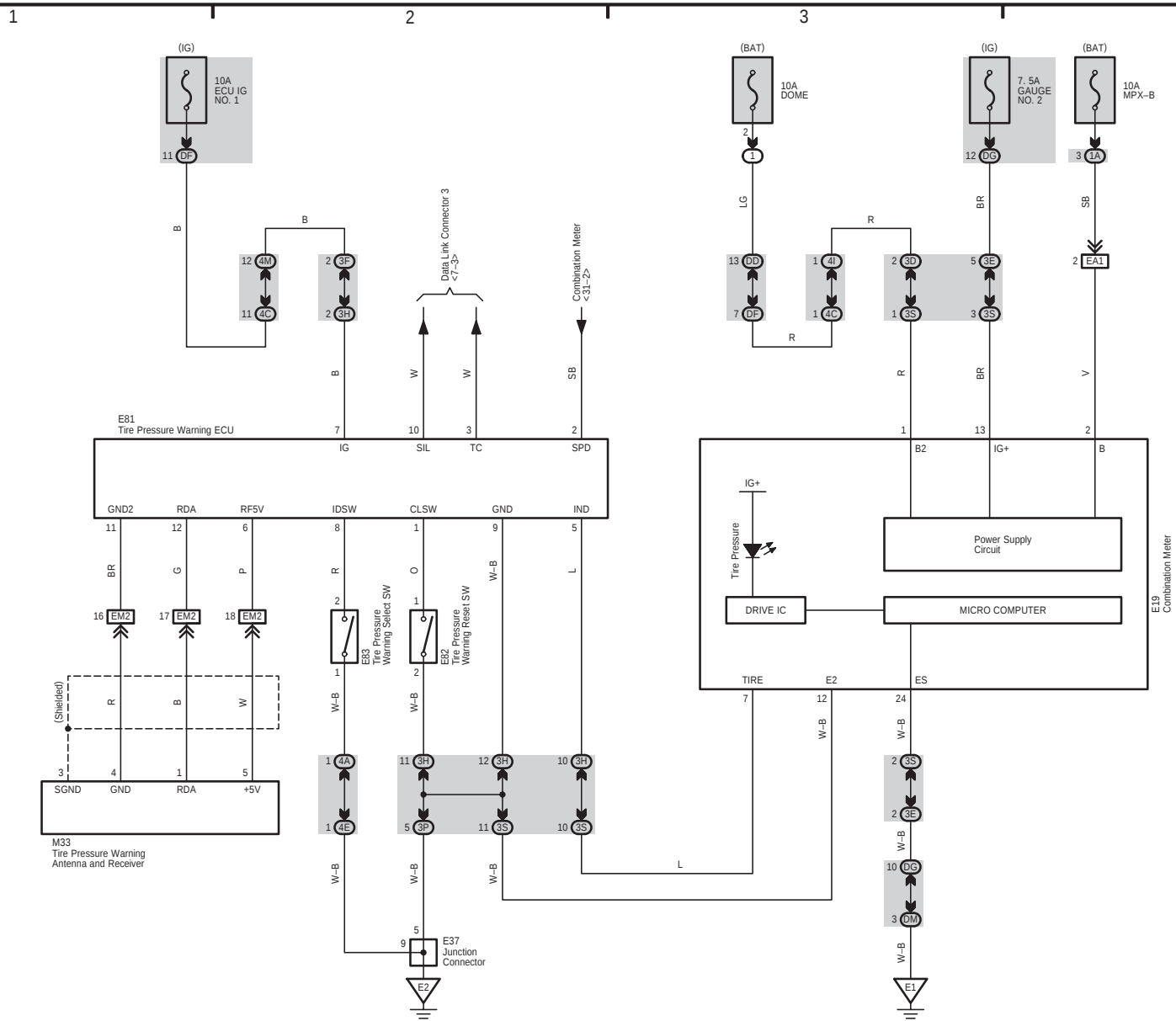
Seat Belt Warning



Pre-Collision System



Tire Pressure Warning System



The diagram illustrates the Adaptive Front-Lighting System (AFLS) wiring. It is divided into four main sections: 1. Power and Grounding, 2. Headlamp Assemblies (LH and RH), 3. Headlamp Leveling Motors (LH and RH), and 4. ECU and Communication.

Section 1: Power and Grounding

- (IG) 7.5A H-LP LVL** and **(IG) 7.5A ECU IG NO. 2** are connected to the **A22 Headlamp Swivel ECU** at terminals 2 (DP) and 19 (DF).
- GR** (Ground) is connected to terminal 11 (LA1) and terminal 15 (IG).
- W** (Wire) is connected to terminal 22 (E1).
- W-B** (Wire-Battery) is connected to terminal 14 (AE2) and terminal 5 (E2).
- A30 Junction Connector** and **E37 Junction Connector** are shown at the bottom.

Section 2: Headlamp Assemblies (LH and RH)

- A15 Headlamp Assembly (LH)** and **A18 Headlamp Assembly (RH)** are connected to the ECU at terminals 1 (SMBL), 2 (SML), and 3 (SMGL).
- A25(A), E33(B) Junction Connector** and **A27(A) Junction Connector** are shown.
- MPX1** and **MPX2** are connected to the ECU at terminals 12 and 13.

Section 3: Headlamp Leveling Motors (LH and RH)

- A20 Headlamp Leveling Motor (LH)** and **A21 Headlamp Leveling Motor (RH)** are connected to the ECU at terminals 1 (LHB1), 2 (LHM+), and 3 (LH E).
- RHB1**, **RHM+**, and **RH E** are connected to the ECU at terminals 1, 2, and 3.

Section 4: ECU and Communication

- E19 Combination Meter** is connected to the ECU at terminals 1 (IG+), 13 (IG+), and 2 (B).
- Power Supply Circuit**, **DRIVE IC**, **MICRO COMPUTER**, and **CAN I/F** are shown in the ECU block diagram.
- CANH** and **CANL** are connected to the ECU at terminals 17 and 18.
- W-B** (Wire-Battery) is connected to terminal 11 (S) and terminal 5 (E).
- E37 Junction Connector** is shown at the bottom.

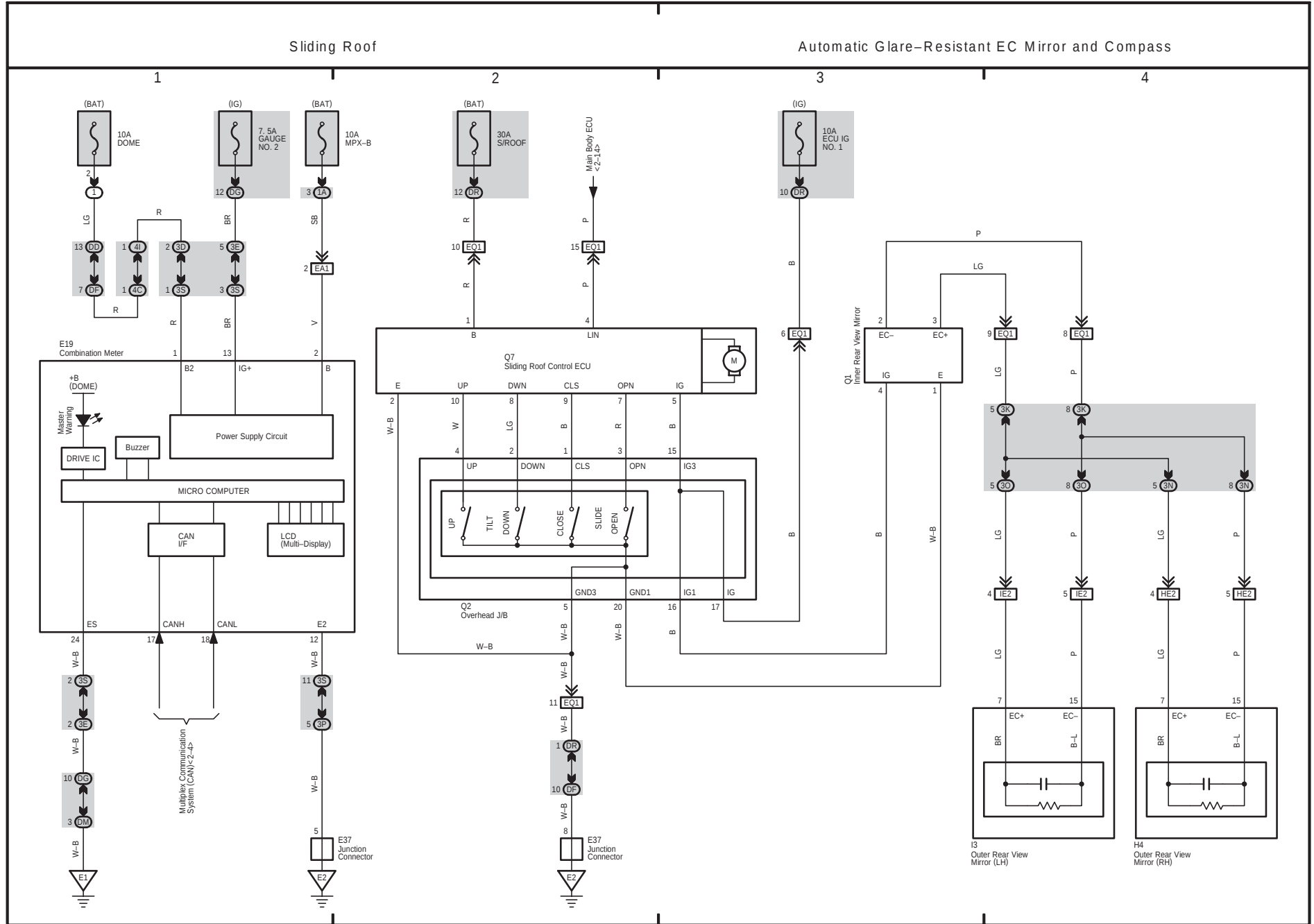
The diagram illustrates the electrical architecture of a headlamp beam level control system. It is organized into four numbered sections:

- Section 1: Power and Grounding**
 - Shows the power source (IG) and ground (GND) connections.
 - Includes fuses (7.5A H-LP LVL, 7.5A ECU IG NO. 2) and relays (A25(A), E33(B), A27(A), A22 Headlamp Swivel ECU).
 - Shows the headlamp leveling motors (LH and RH) and the headlamp leveling sensor (A20, A21).
- Section 2: Headlamp Assemblies (LH and RH)**
 - Shows the internal wiring of the headlamp assemblies (A15 LH, A18 RH).
 - Includes the multiplex communication system (CAN) and the headlamp leveling motors (LH and RH).
- Section 3: Multiplex Communication System (CAN)**
 - Shows the CAN bus system (CANH, CANL) and the headlamp leveling motors (LH and RH).
- Section 4: Control Unit and Sensors**
 - Shows the control unit (A22 Headlamp Swivel ECU) and the headlamp leveling motors (LH and RH).
 - Includes the headlamp leveling sensor (A20, A21) and the headlamp leveling motor (LH and RH).

The diagram includes various components such as fuses, relays, connectors, and sensors, and shows the flow of power and data throughout the system.

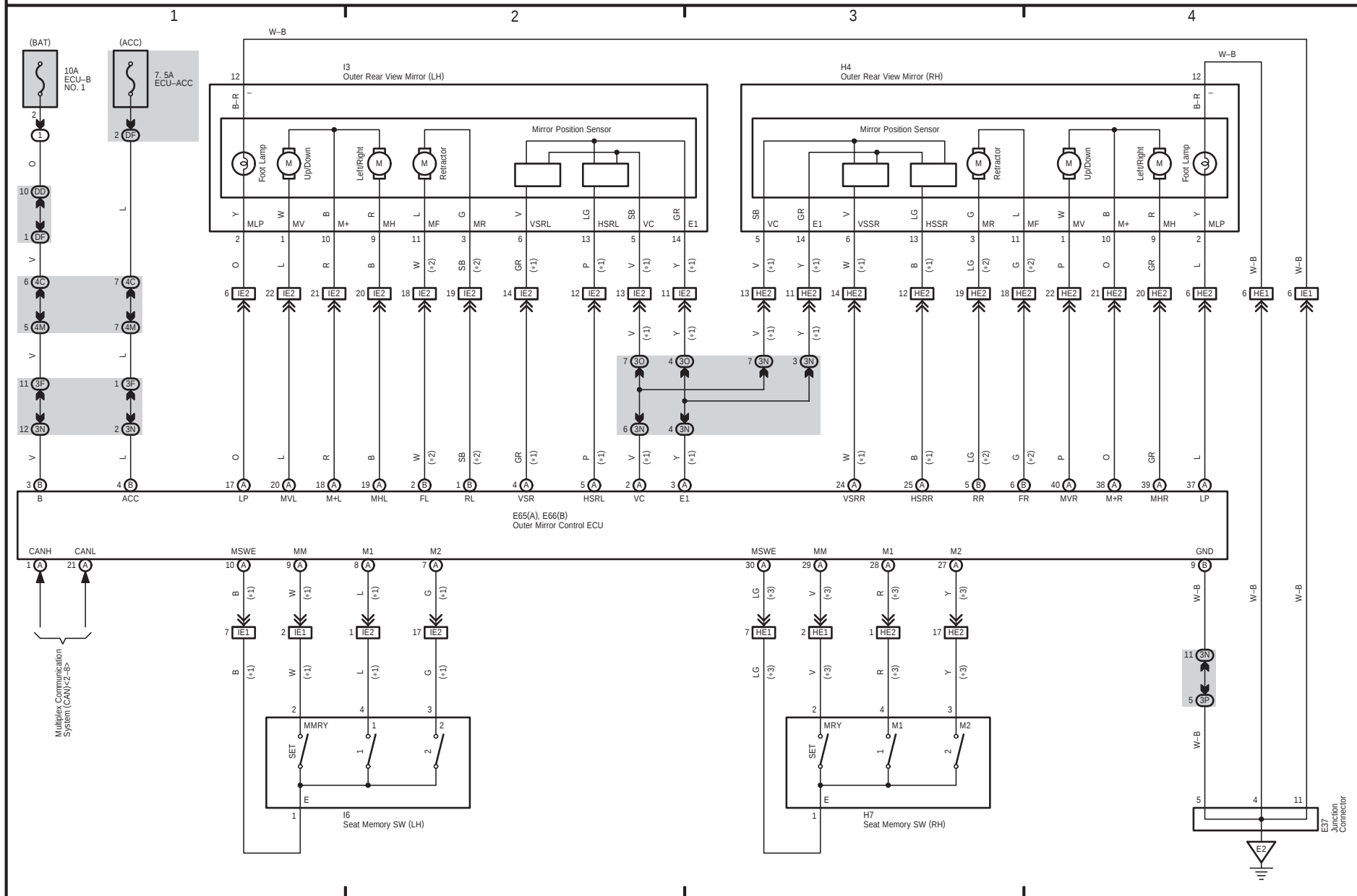
16 ES 350

M OVERALL ELECTRICAL WIRING DIAGRAM



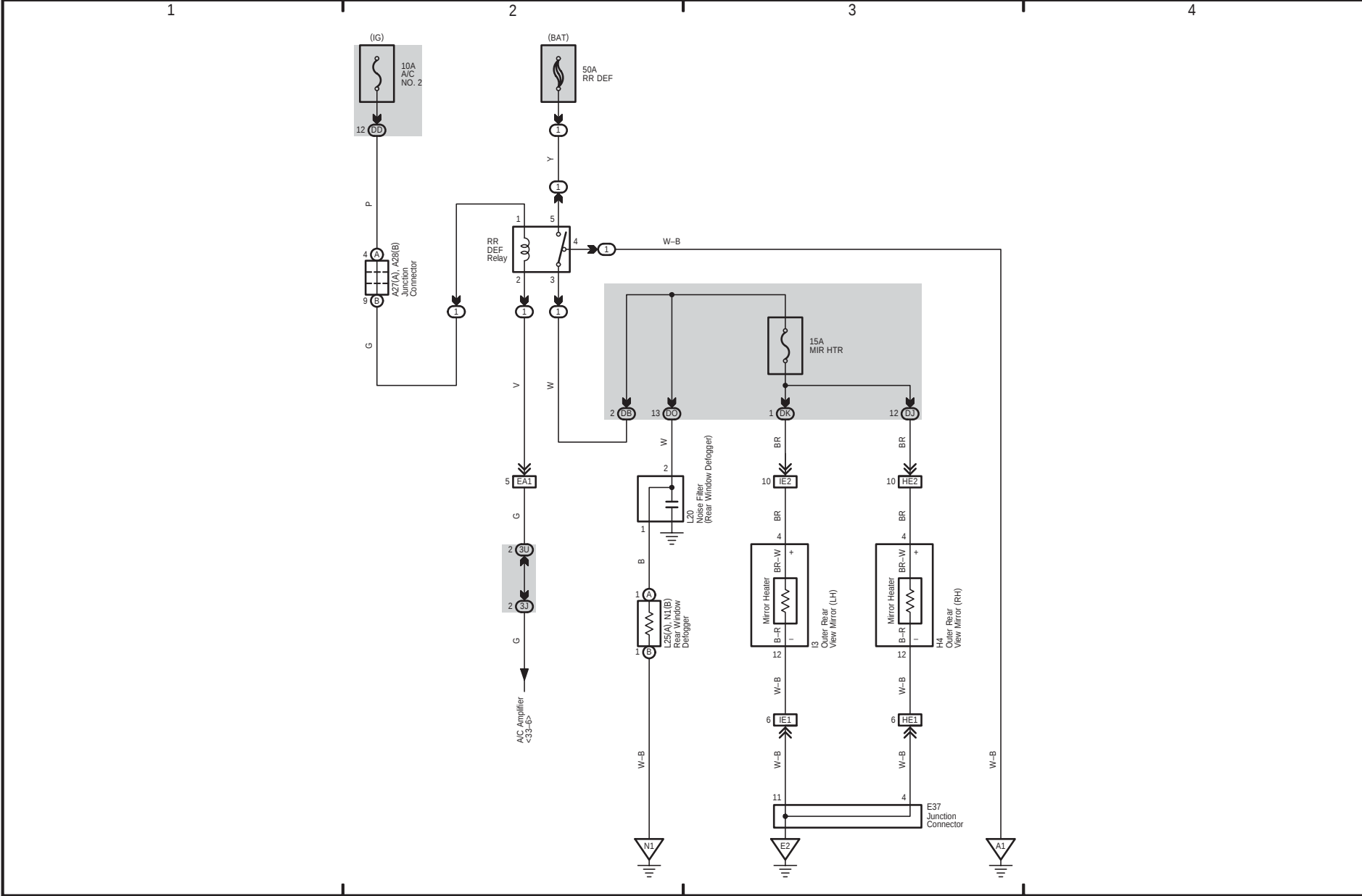
Remote Control Mirror

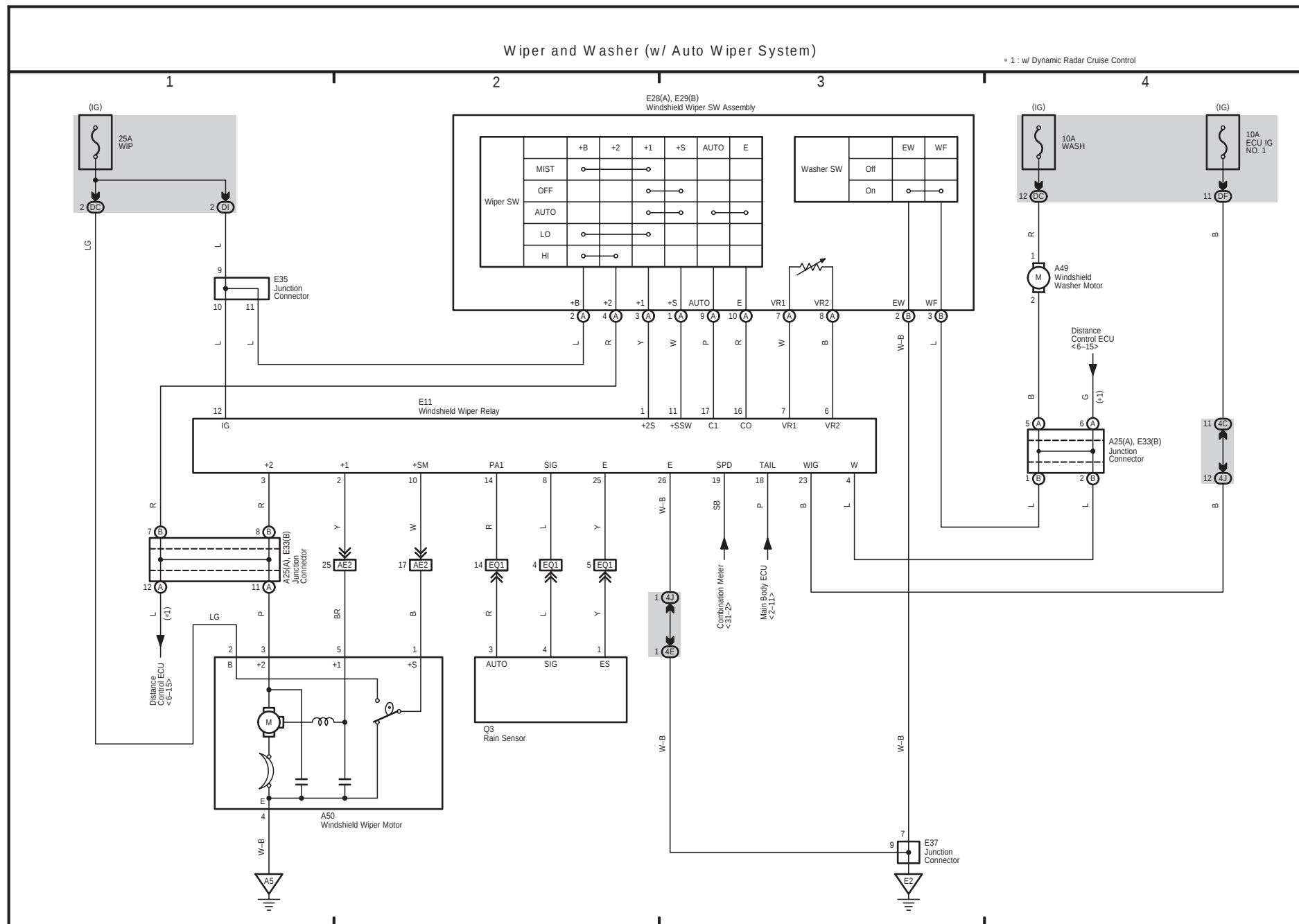
- * 1 : w/ Seat Position Memory
- * 2 : w/ Retractor
- * 3 : w/ Seat Position Memory (Front Passenger's Seat)



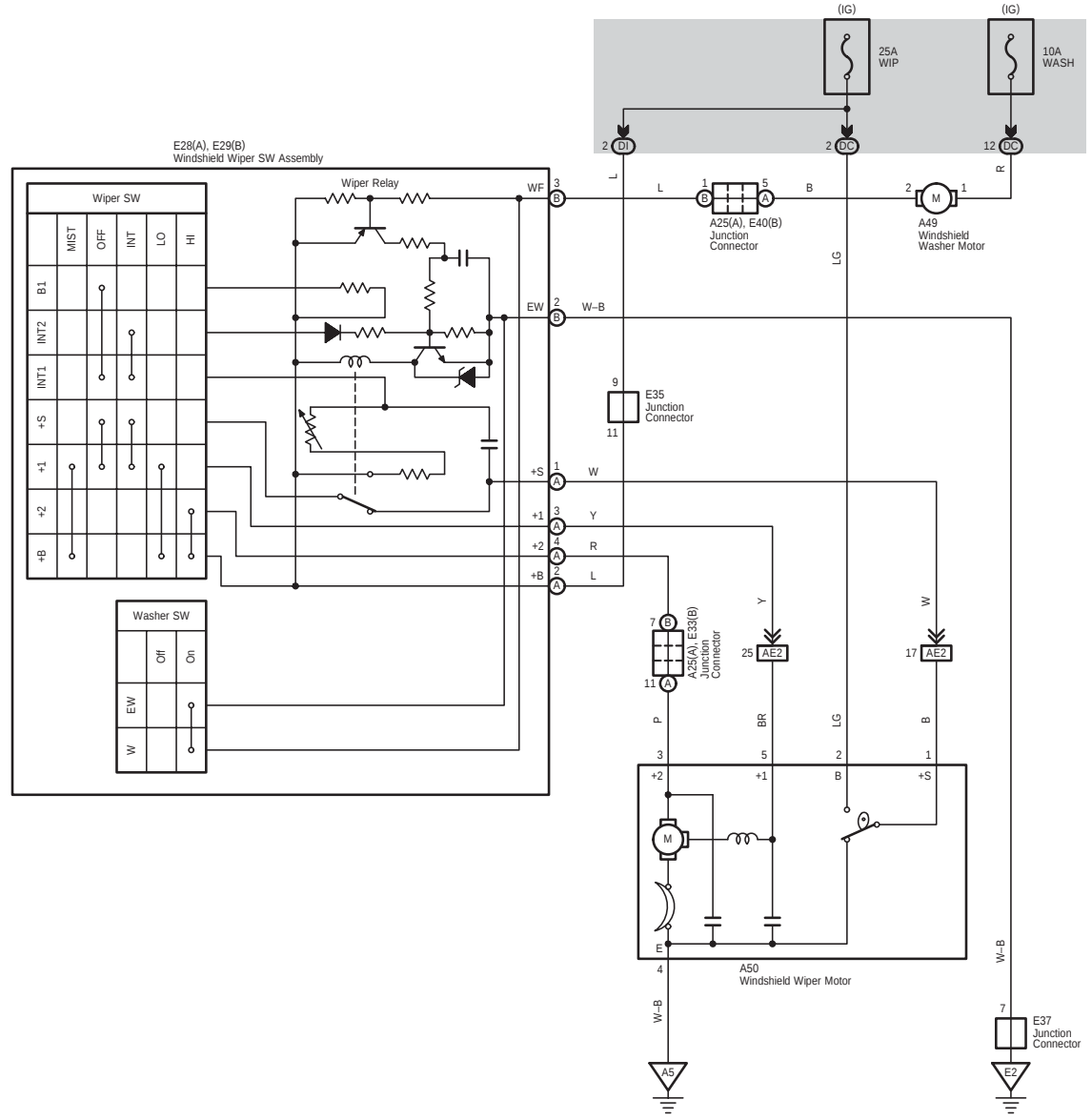
M OVERALL ELECTRICAL WIRING DIAGRAM

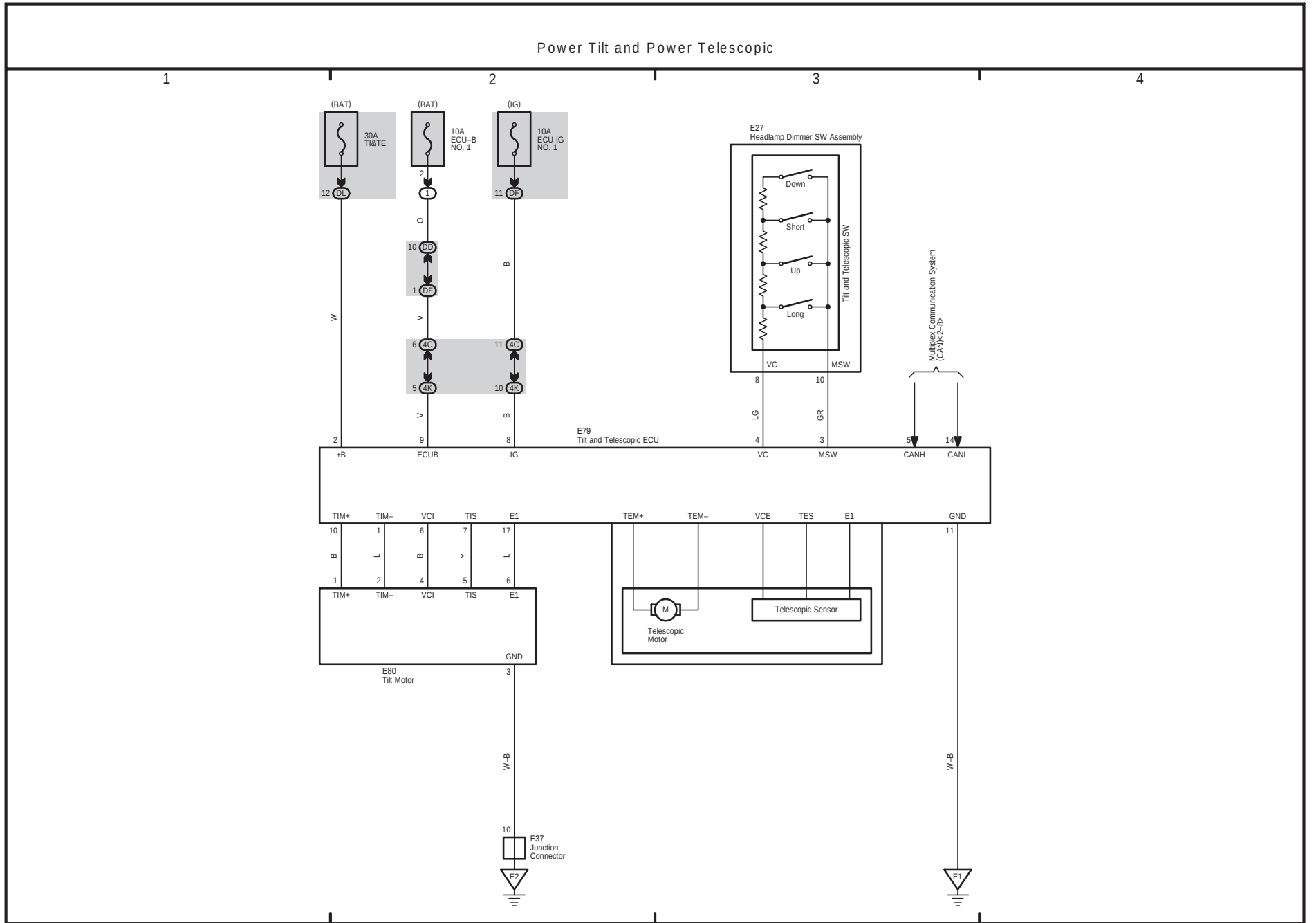
18 ES 350

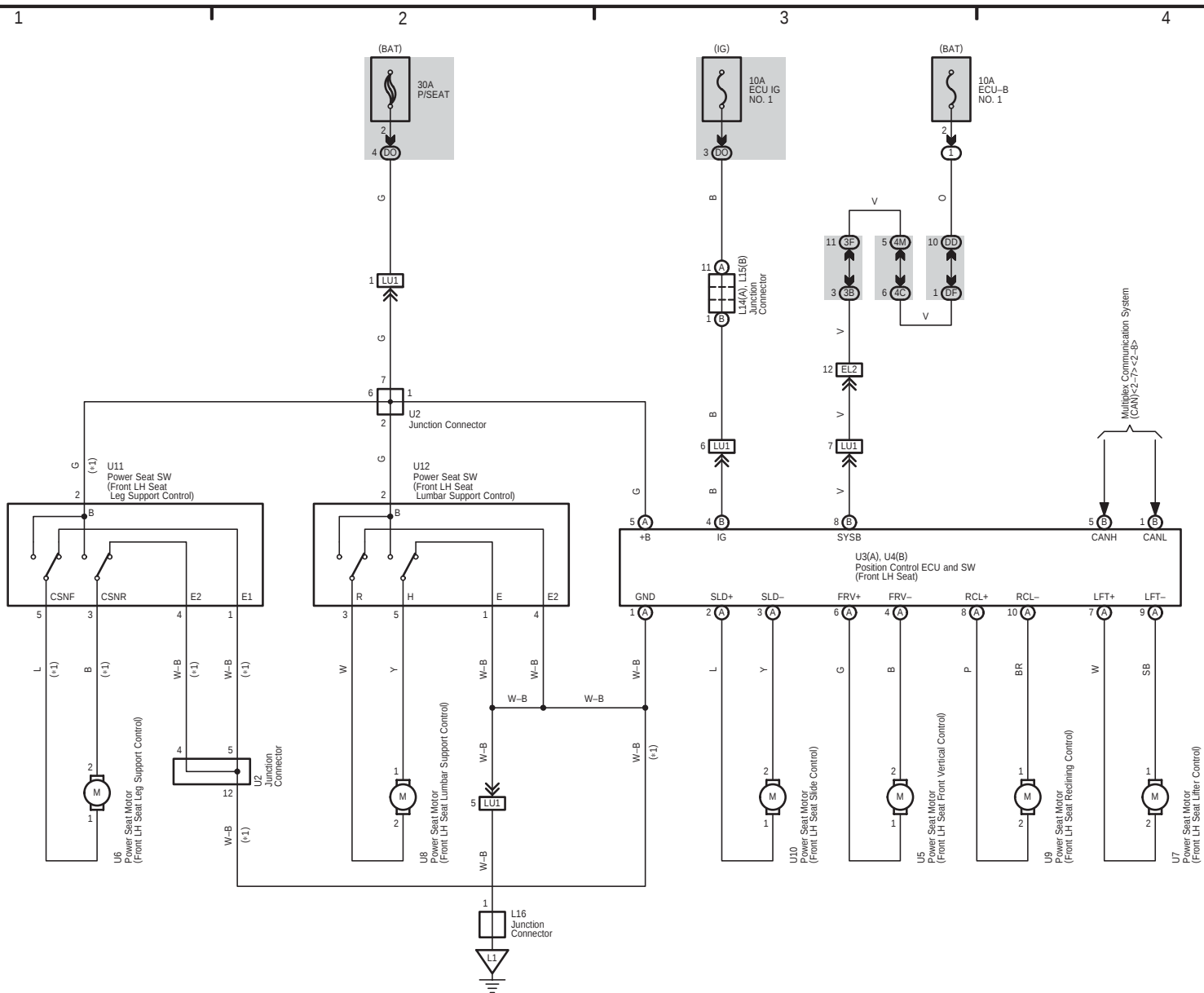




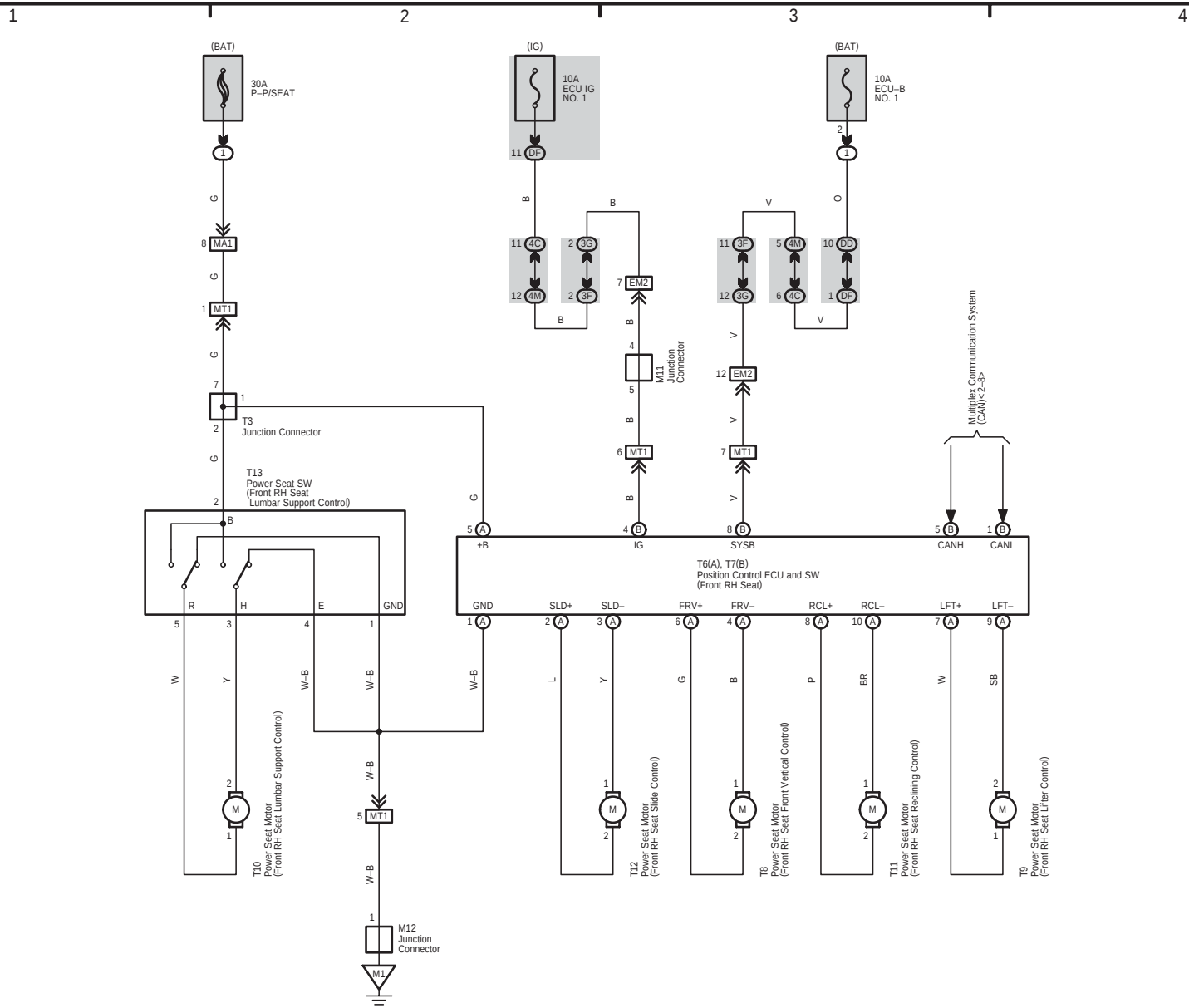
Wiper and Washer (w/o Auto Wiper System)

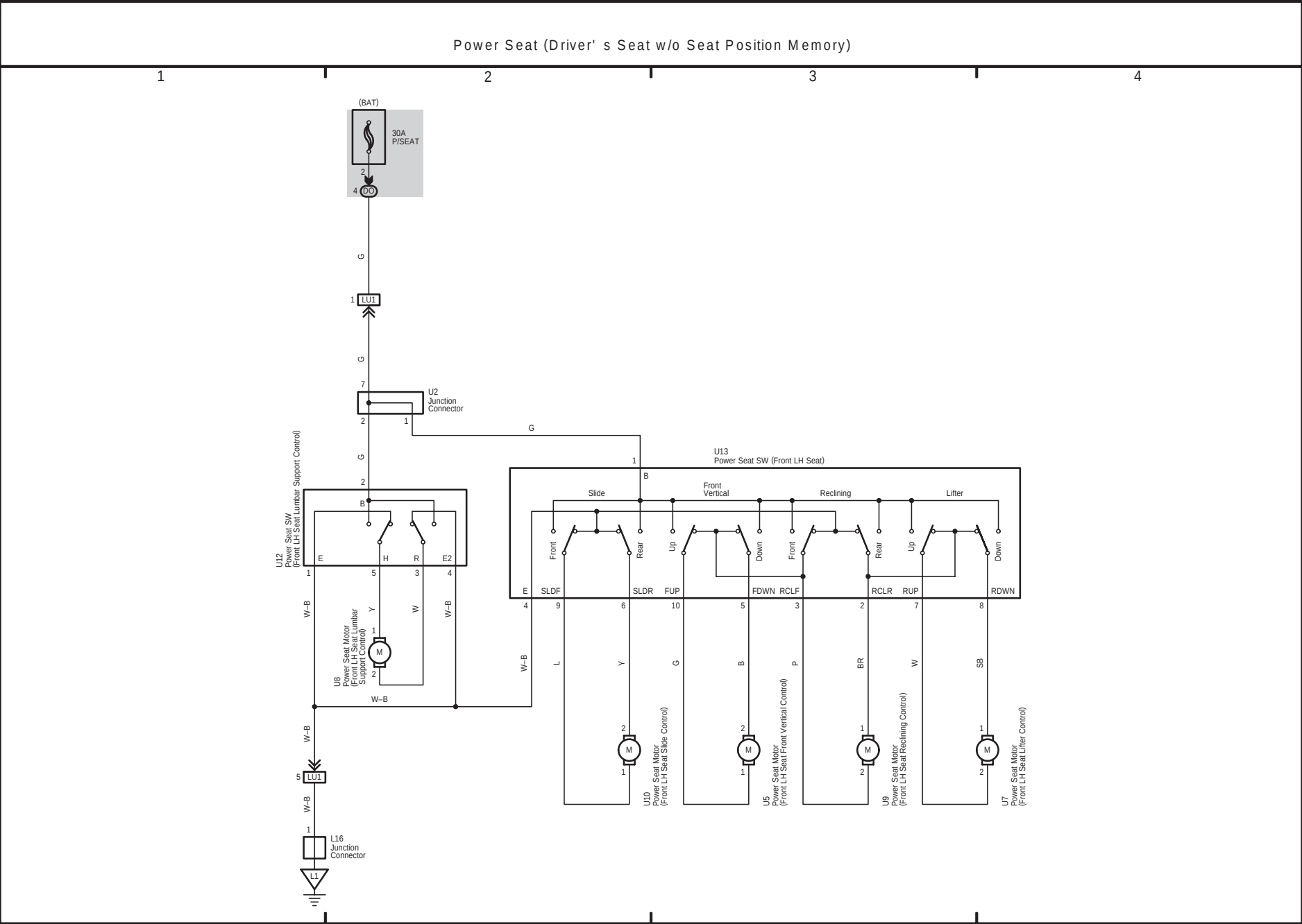




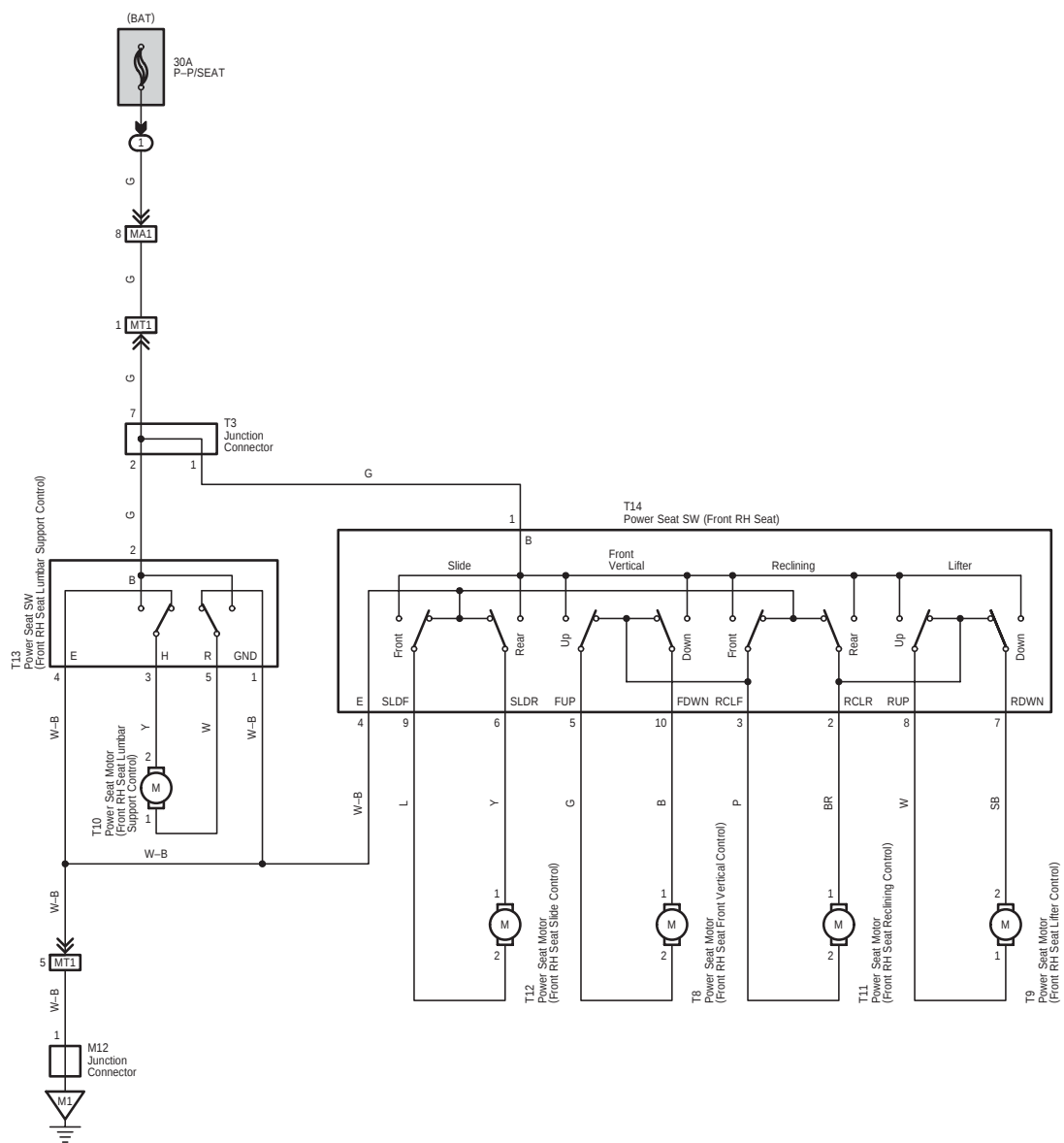


Power Seat (Front Passenger' s Seat w/ Seat Position Memory)

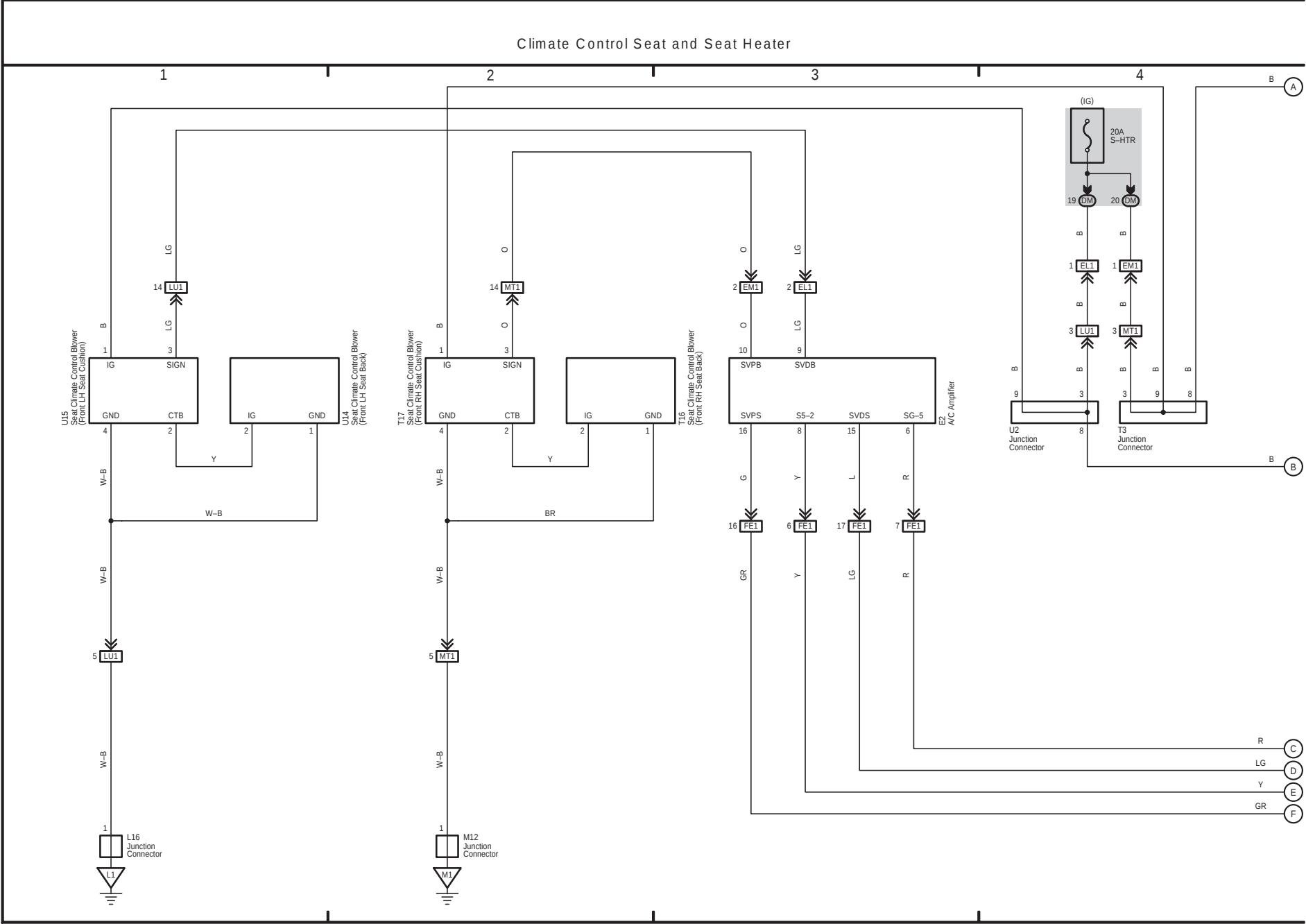




Power Seat (Front Passenger' s Seat w/o Seat Position Memory)



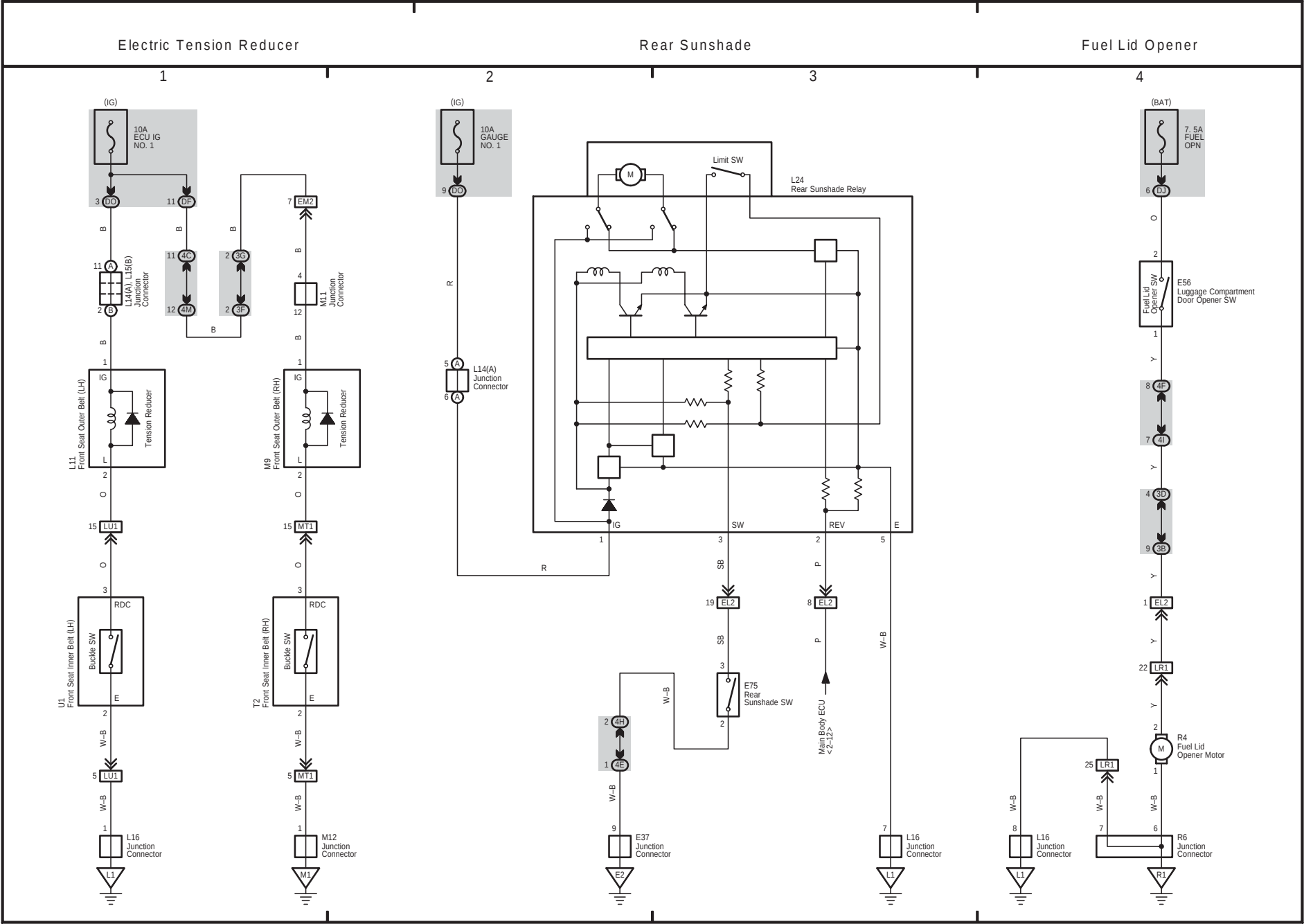
OVERALL ELECTRICAL WIRING DIAGRAM

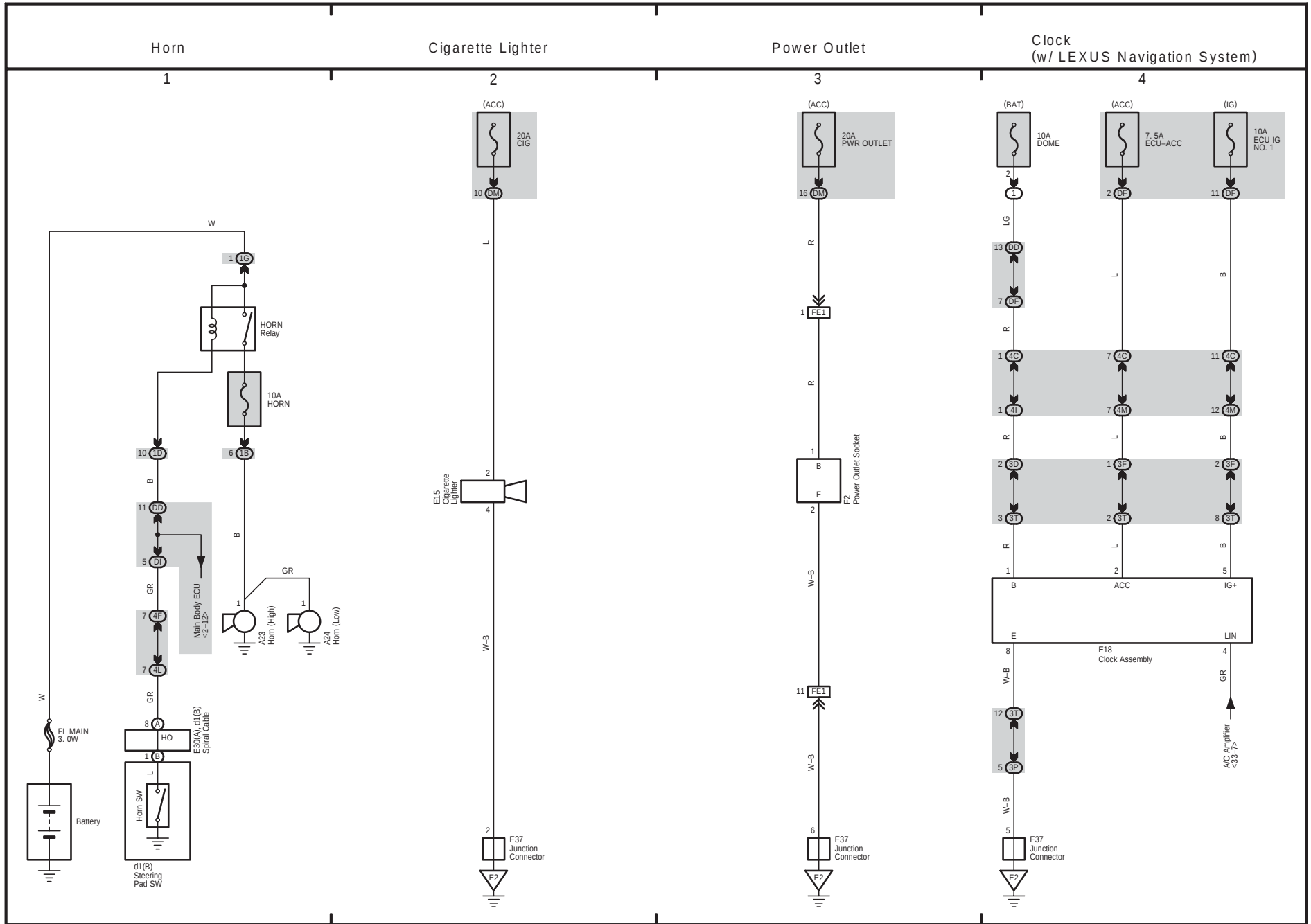


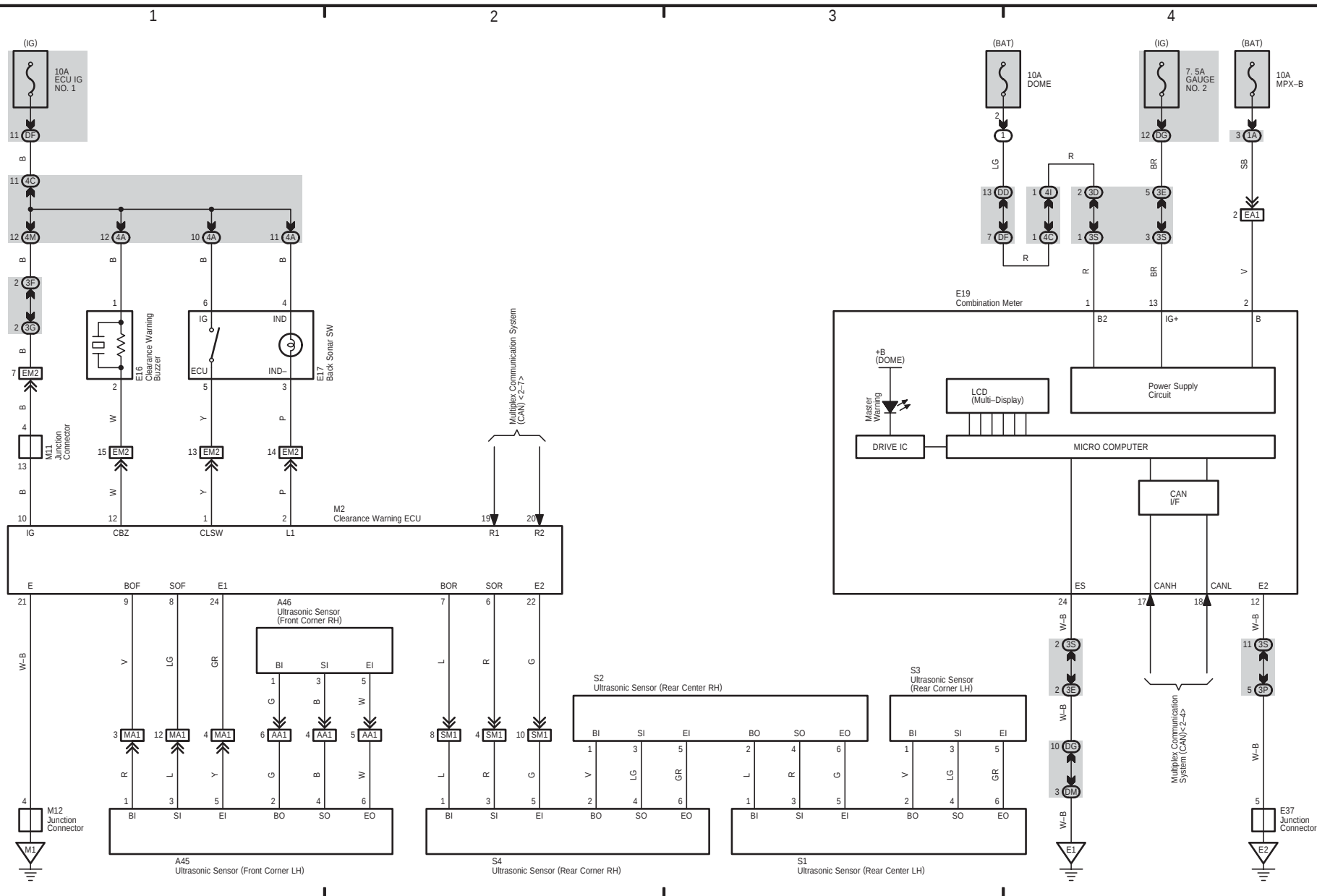
The diagram illustrates the electrical wiring for the seat heater system, divided into two main sections: LH (Left Hand) and RH (Right Hand). Key components include:

- Seat Heater Control:** Controls the heating elements for the seat back and seat cushion.
- Seat Back/Cushion Heaters:** Heating elements for the seat back and seat cushion.
- Thermistor:** A temperature sensor used for feedback control.
- Relays and Switches:** Various relays (e.g., LU1, EL1, FE1, MT1, EM1, EM2) and switches (e.g., RV, SW, SWL, SWR, THR) are used to control the power flow.
- Communication System:** A Multiplex Communication System (CAN) is shown, with pins for ILL+ and ILL-.
- Power and Ground Connections:** The system is connected to the vehicle's electrical system, including the battery (B), ground (G), and various junction connectors (e.g., L16, E37, M12).

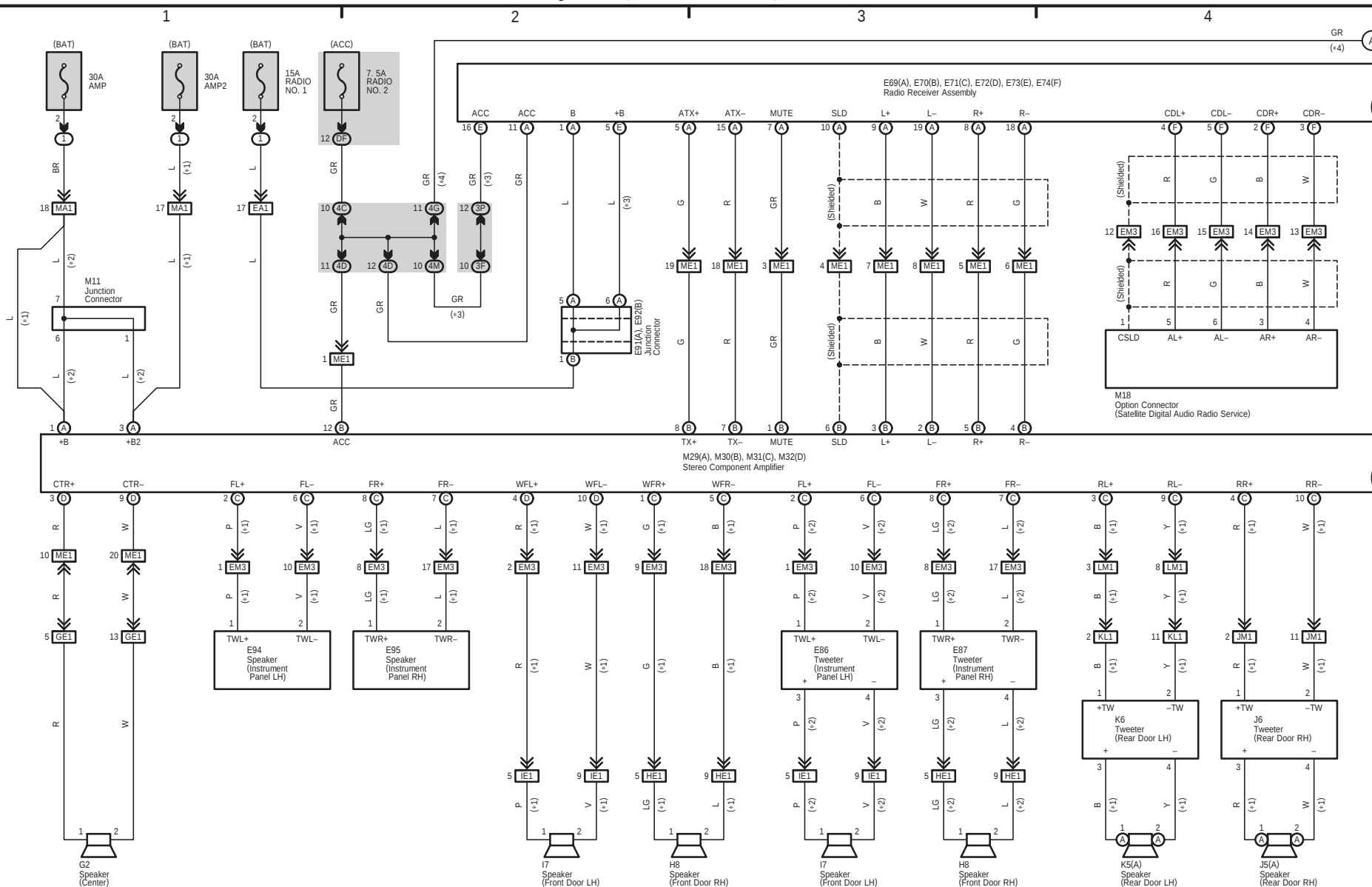
The diagram is a detailed technical drawing showing the electrical connections for the seat heater system, including the LH (Left Hand) and RH (Right Hand) seats. It details the wiring for the seat heater control, seat back/cushion heaters, thermistors, and various relays and switches. The diagram also shows the connection to the vehicle's electrical system, including the battery, ground, and communication system.





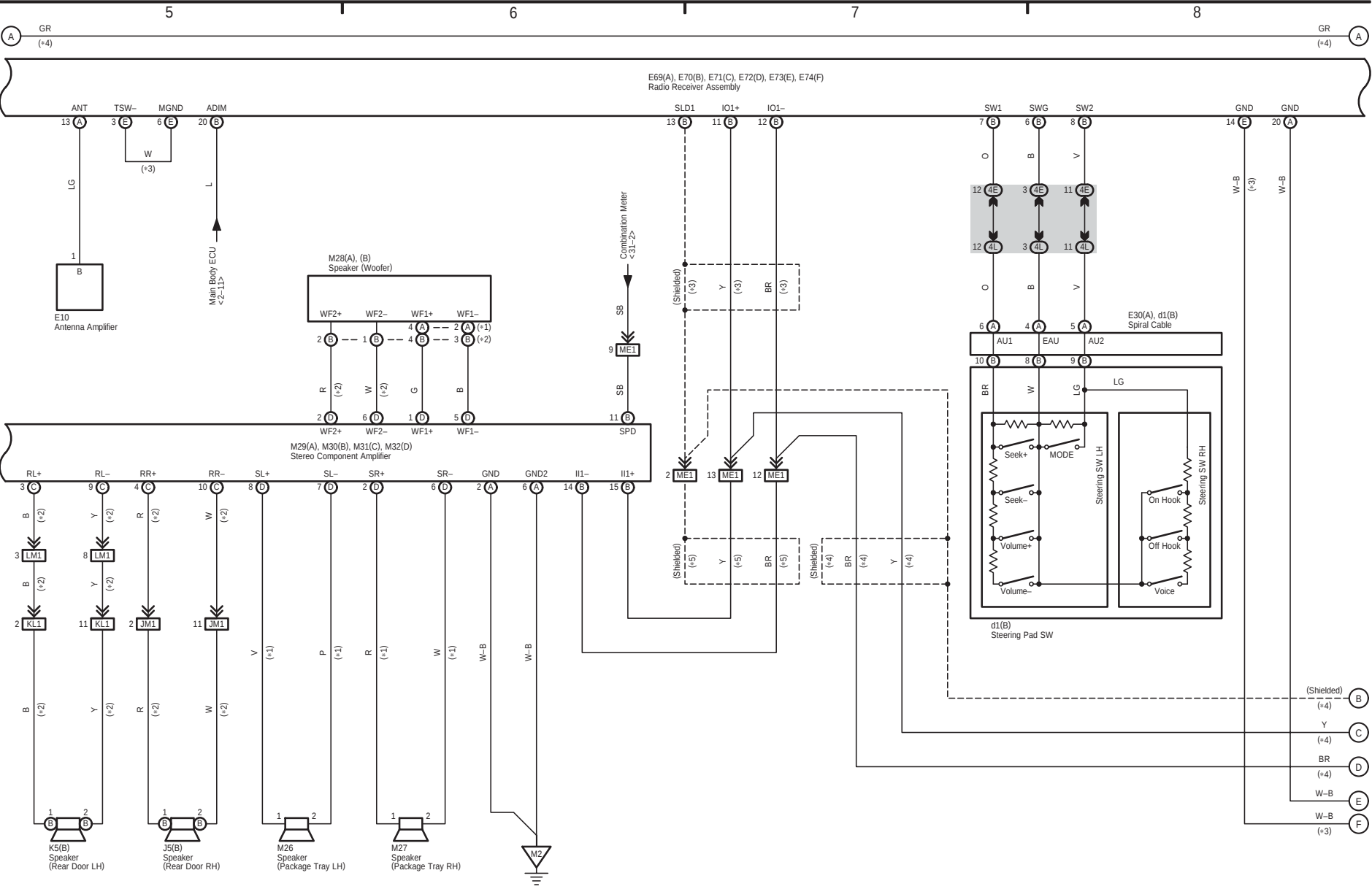


- * 1 : 14 Speaker
- * 2 : 8 Speaker
- * 3 : w/ Bluetooth w/o LEXUS Navigation System
- * 4 : w/ LEXUS Navigation System



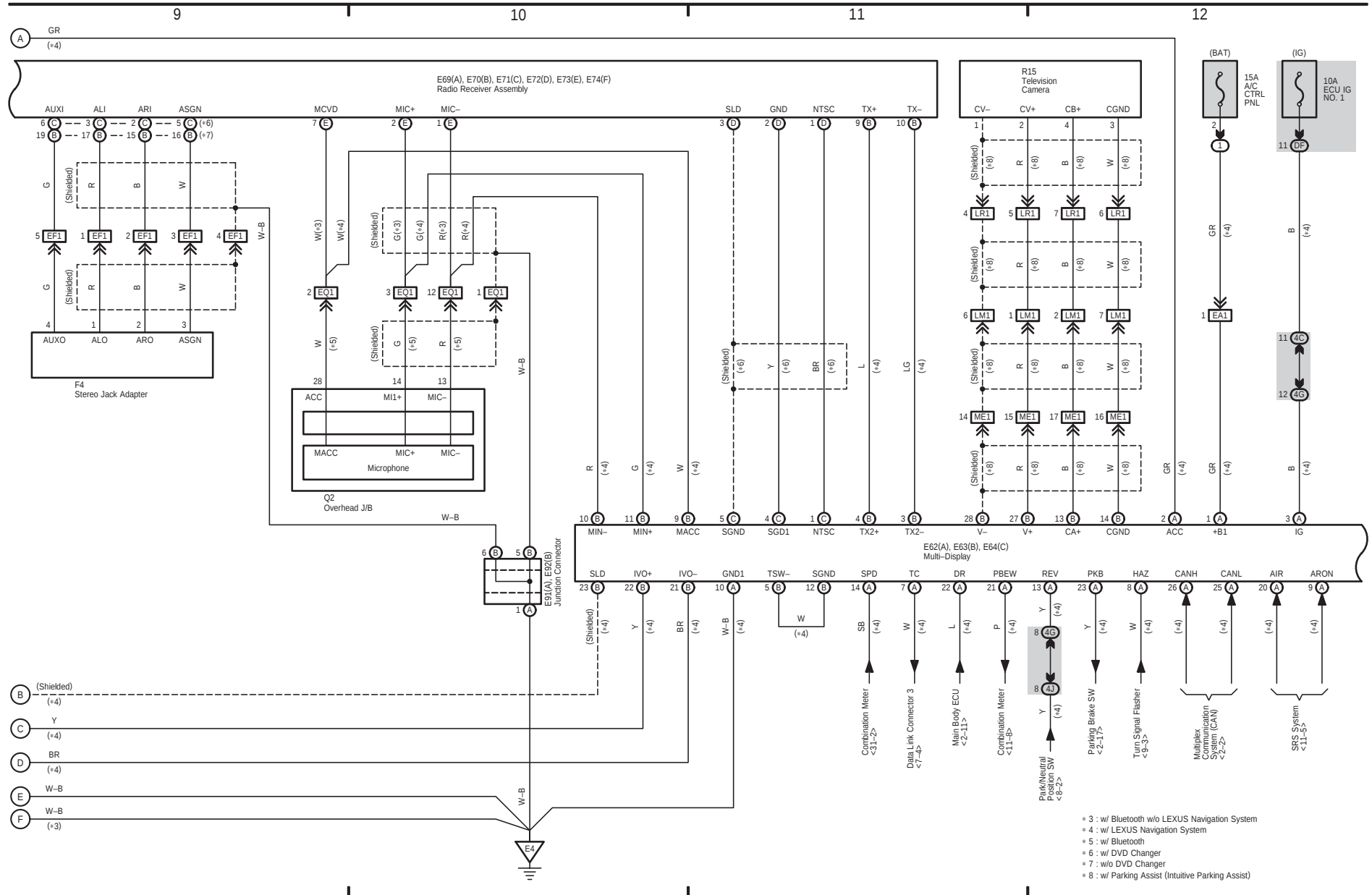
Audio System, LEXUS Navigation System and
Parking Assist (Rear View Monitor)

- * 1 : 14 Speaker
- * 2 : 8 Speaker
- * 3 : w/ Bluetooth w/o LEXUS Navigation System
- * 4 : w/ LEXUS Navigation System
- * 5 : w/ Bluetooth



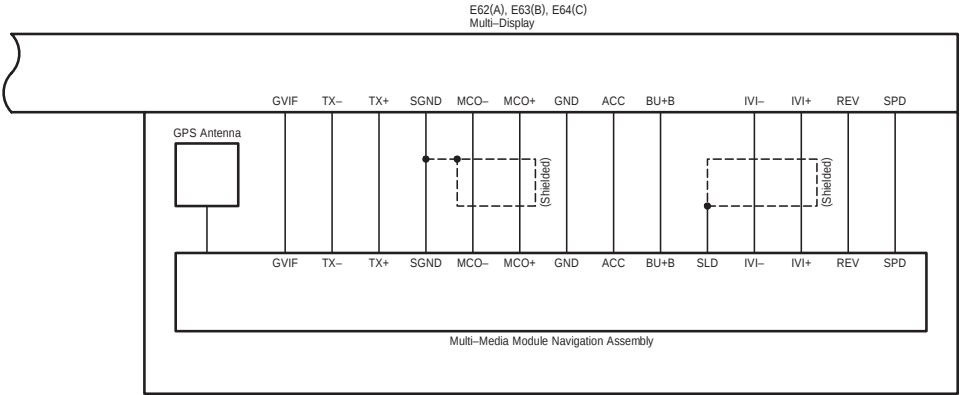
LEXUS ES 350 (EM01Y0U)

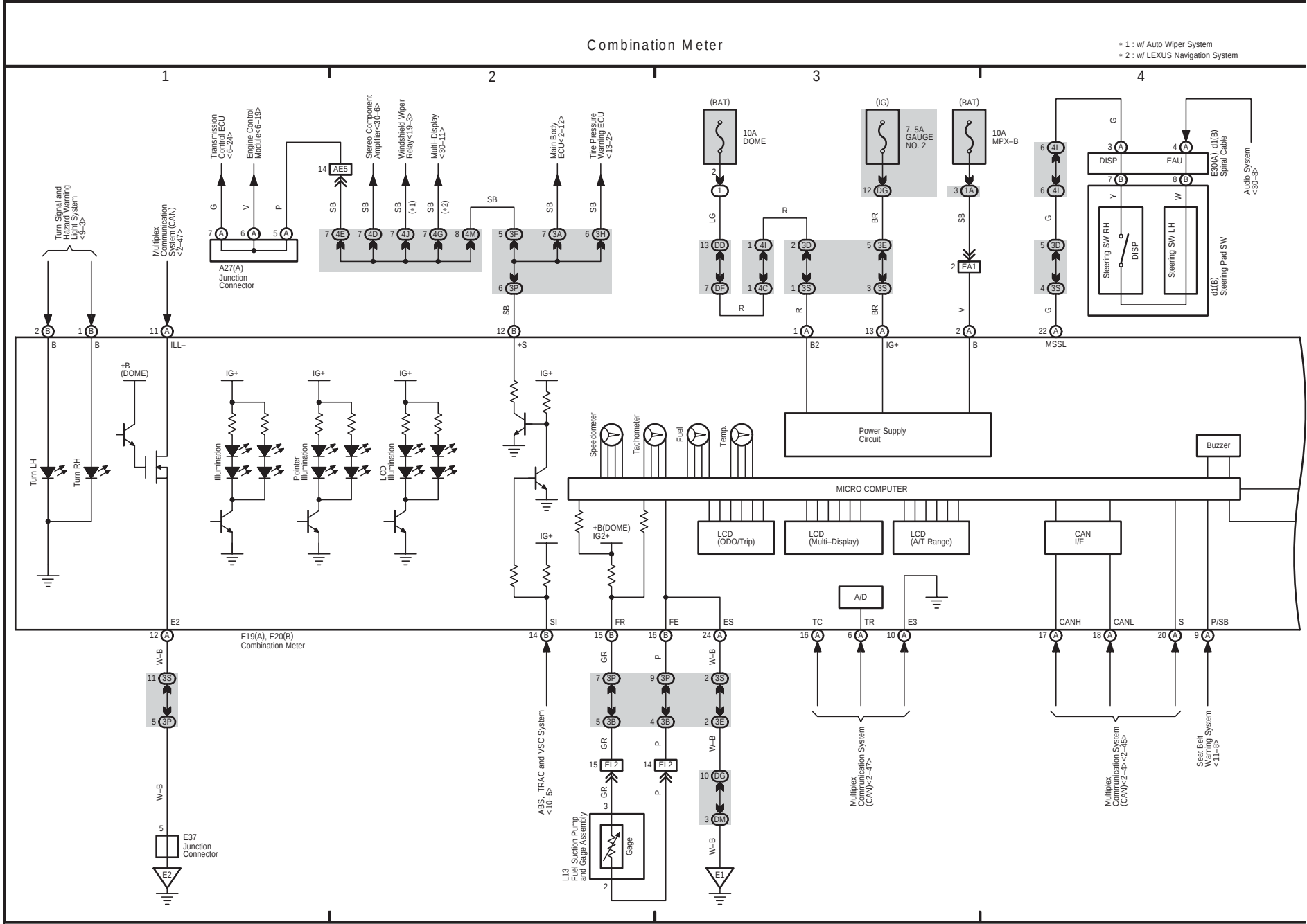
Audio System, LEXUS Navigation System and Parking Assist (Rear View Monitor)



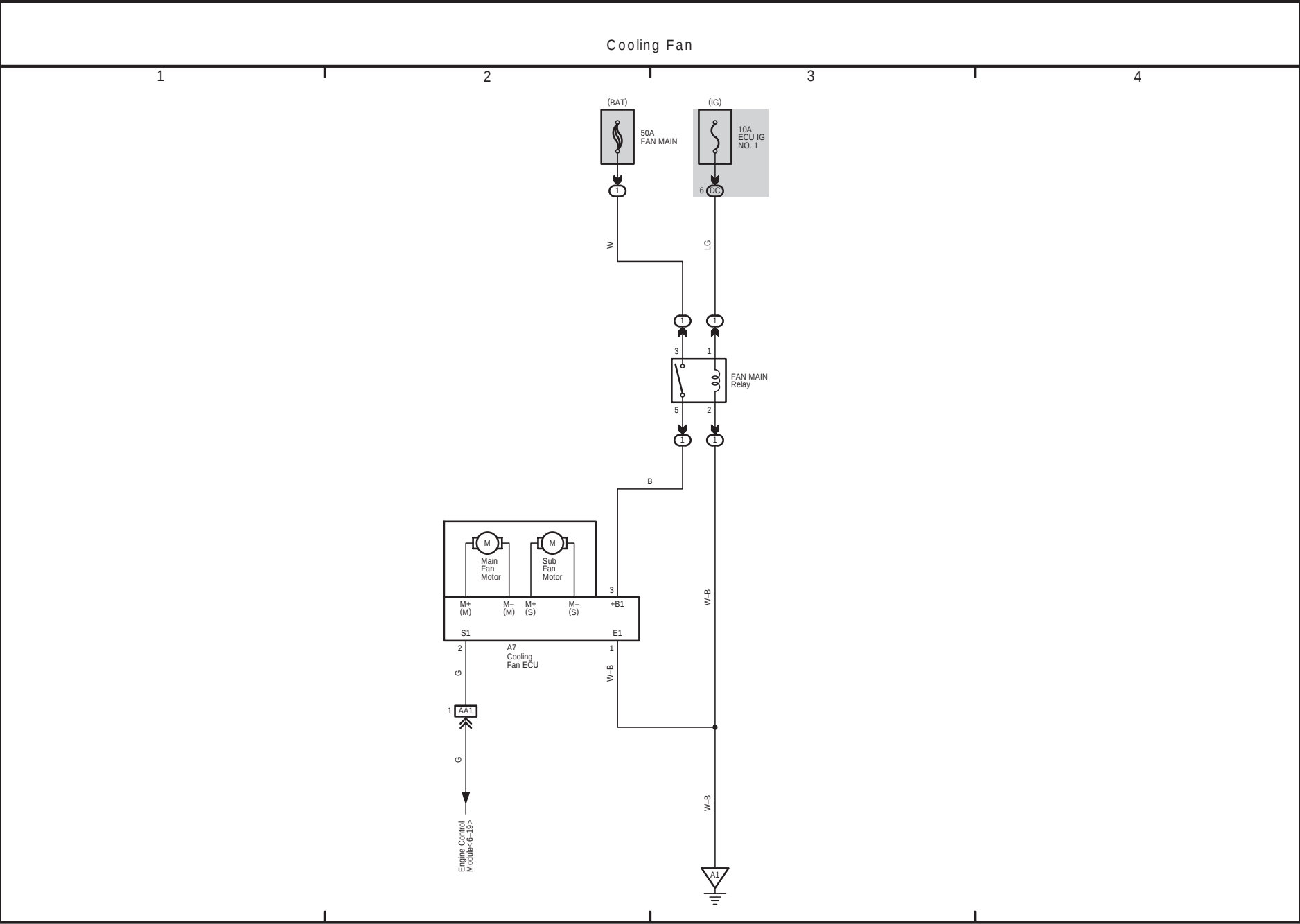
Audio System, LEXUS Navigation System and Parking Assist (Rear View Monitor)

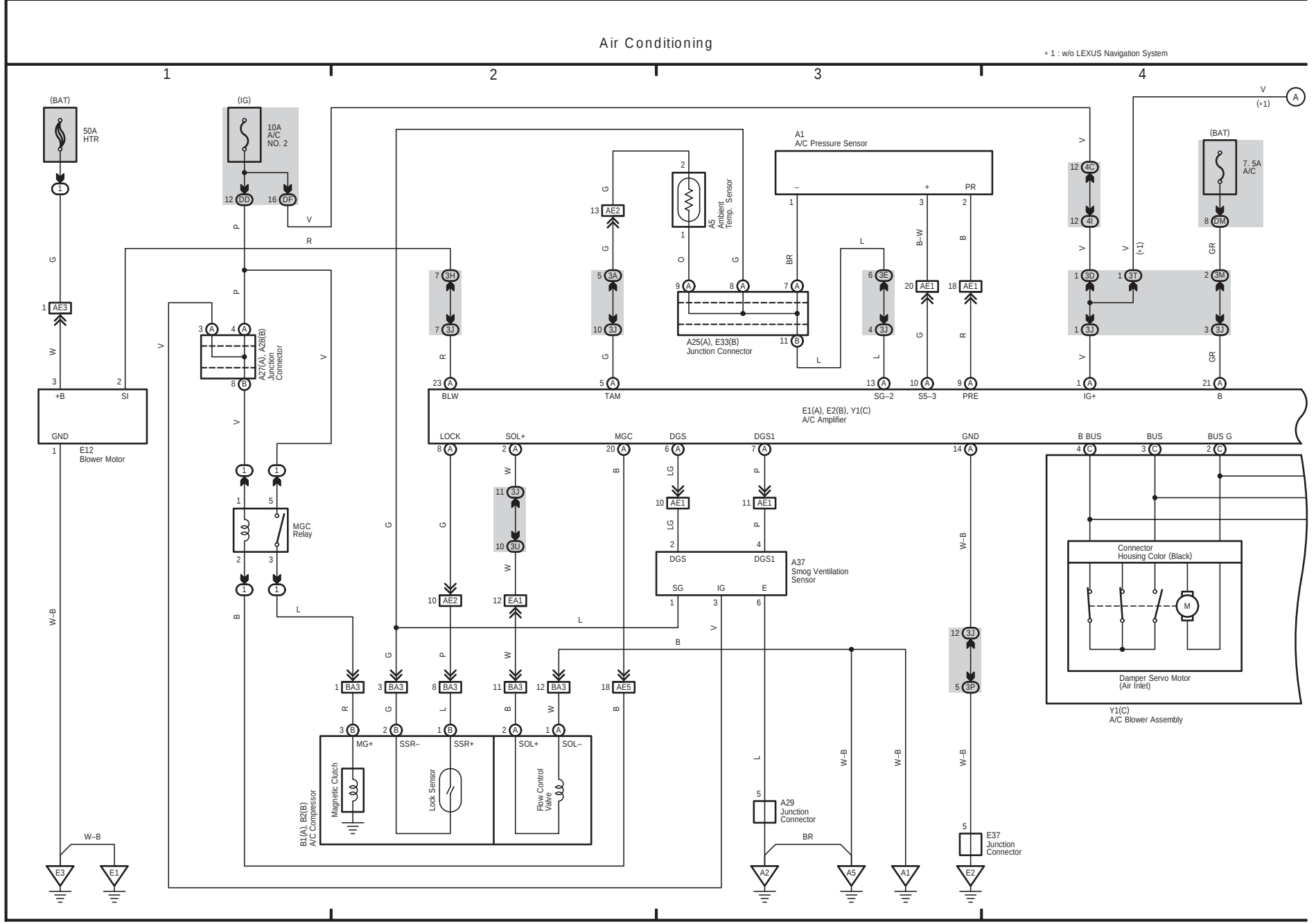
13 14 15 16





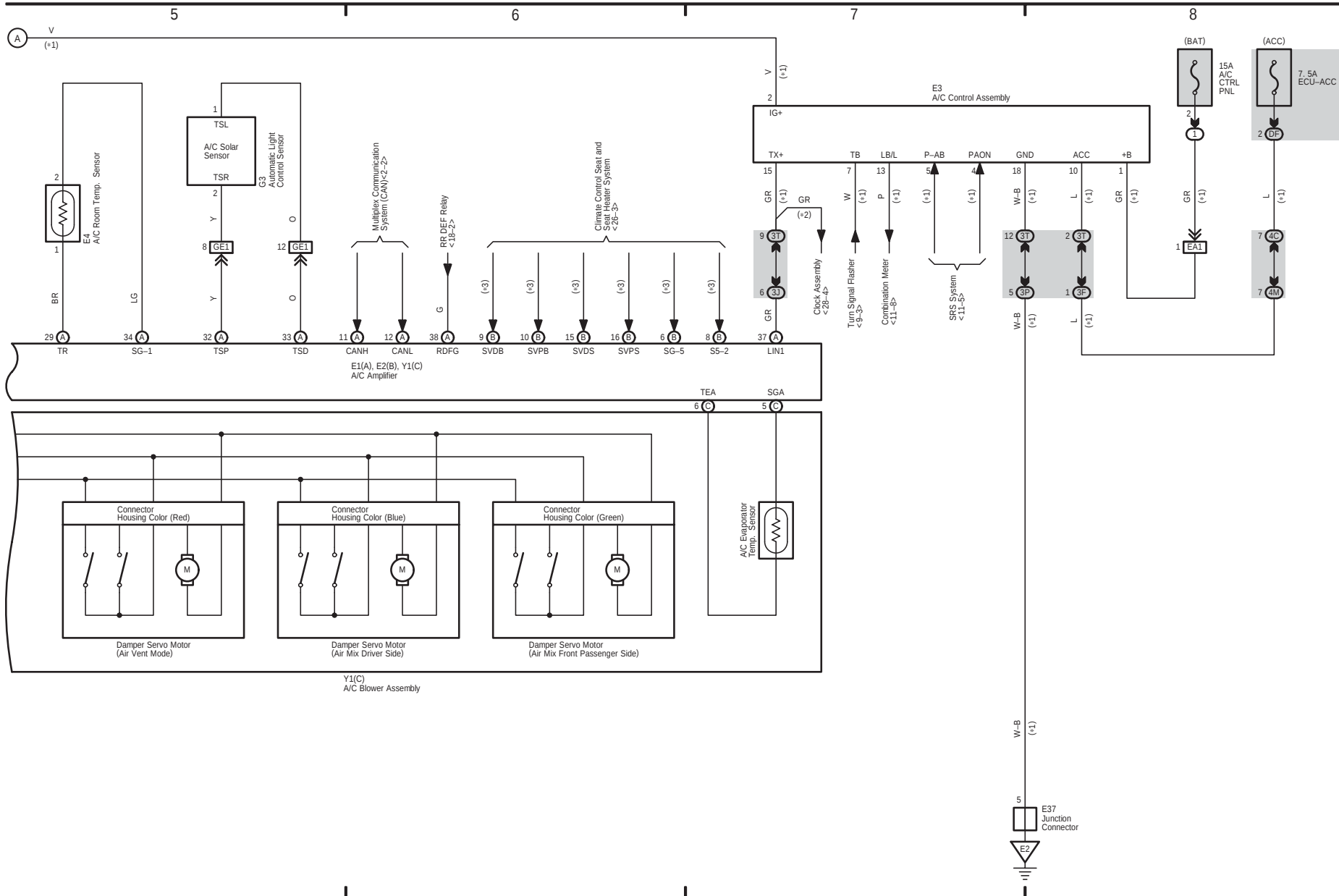




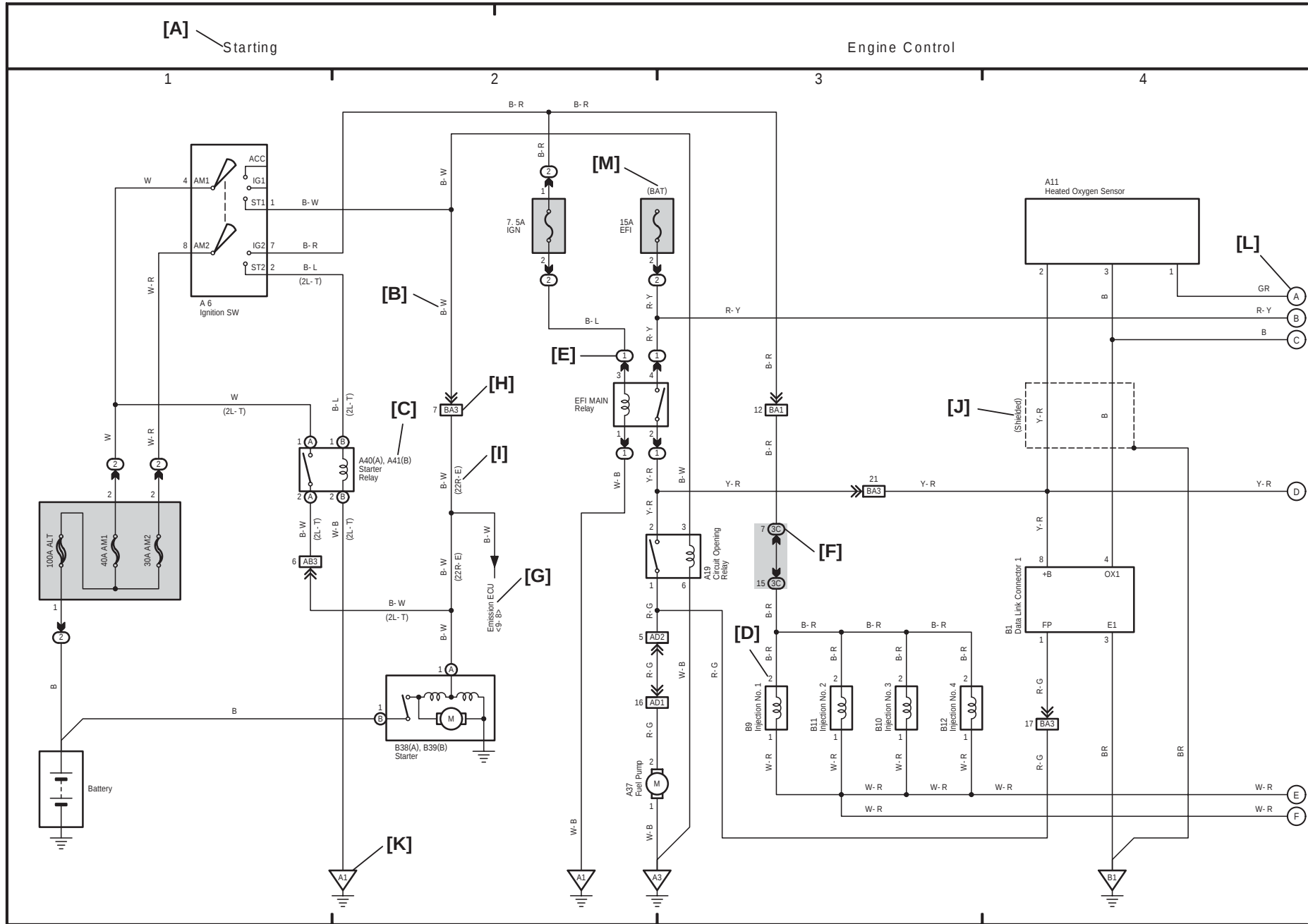


Air Conditioning

- * 1 : w/o LEXUS Navigation System
- * 2 : w/ LEXUS Navigation System
- * 3 : w/ Climate Control Seat



* The system shown here is an EXAMPLE ONLY. It is different to the actual circuit shown in the wiring diagram section.



HOW TO READ THIS SECTION

[A] : System Title

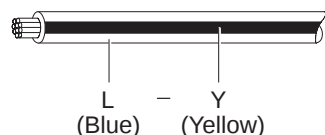
[B] : Indicates the wiring color.

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

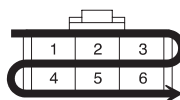


[C] : The position of the parts is the same as shown in the wiring diagram and wire routing.

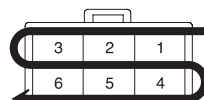
[D] : Indicates the pin number of the connector. The numbering system is different for female and male connectors.

Example: Numbered in other from upper left to lower right

Numbered in other from upper right to lower left



Female



Male

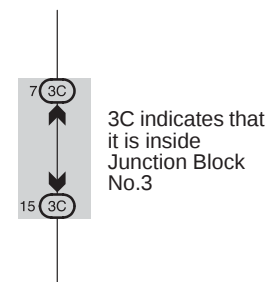
The numbering system for the overall wiring diagram is the same as above

[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

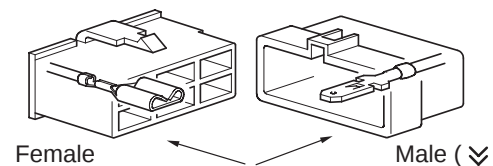
[F] : Junction Block (The number in the circle is the J/B No. and the connector code is shown beside it). Junction Blocks are shaded to clearly separate them from other parts.

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 a ground point.

[L] : The same code occurring on the next page indicates that the wire harness is continuous.

[M] : Indicates the ignition key position(s) when the power is supplied to the fuse(s).

SYSTEM INDEX

SYSTEMS	LOCATION	SYSTEMS	LOCATION
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Cigarette Lighter	28-2	Power Seat (Driver's Seat w/ Seat Position Memory)	22-1
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Mirror Heater	18-1	* Push-Button Start	
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* Automatic Light Control		* Theft Deterrent	
* Door Lock Control		* Wireless Door Lock Control	
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* Headlight		TRAC	10-1
* Illumination		Turn Signal and Hazard Warning Light	9-1
* Interior Light		VSC	10-1
* Light Auto Turn Off System		Wiper and Washer (w/ Auto Wiper System)	19-1
* Luggage Compartment Door Opener		Wiper and Washer (w/o Auto Wiper System)	20-1