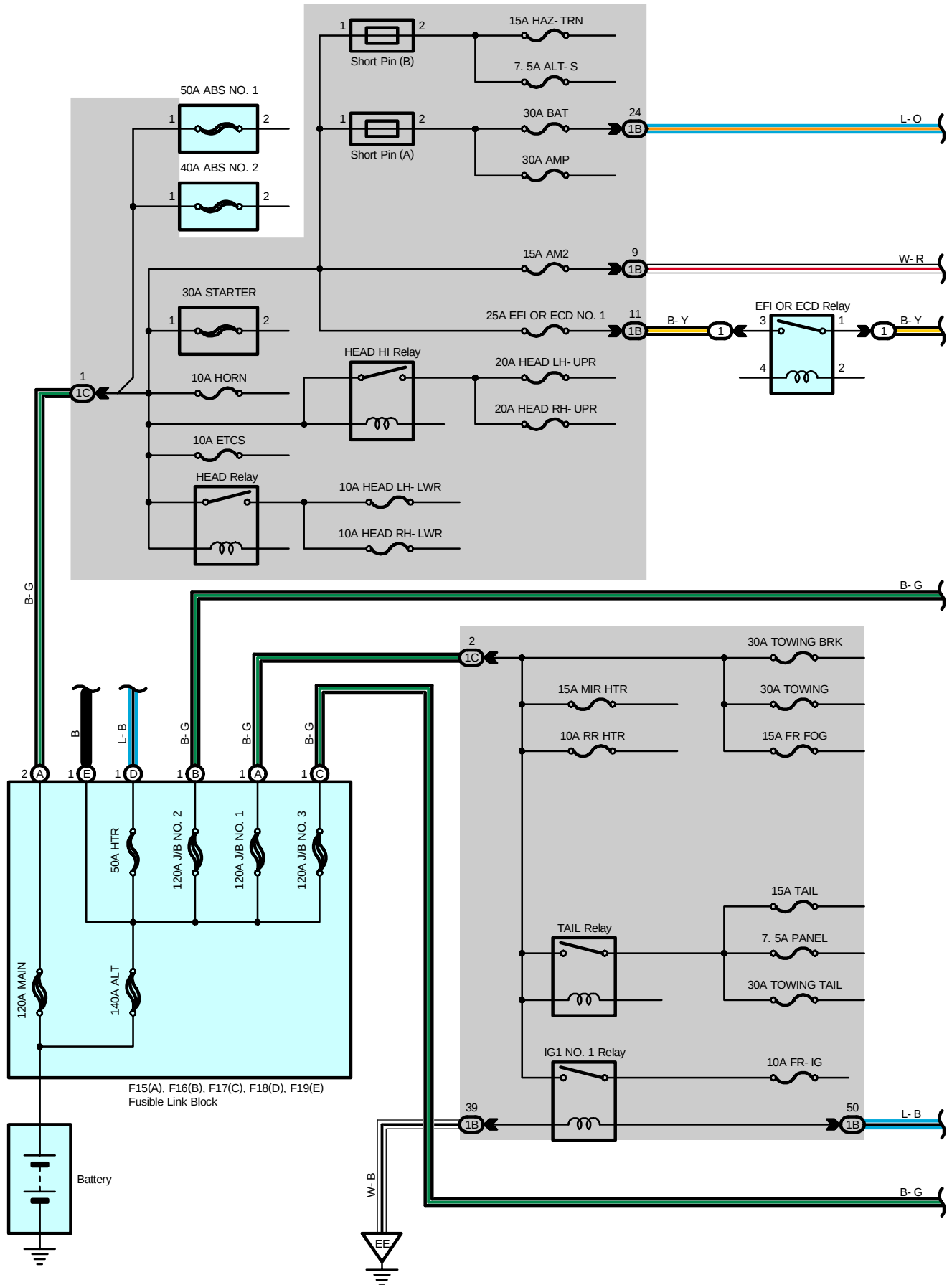
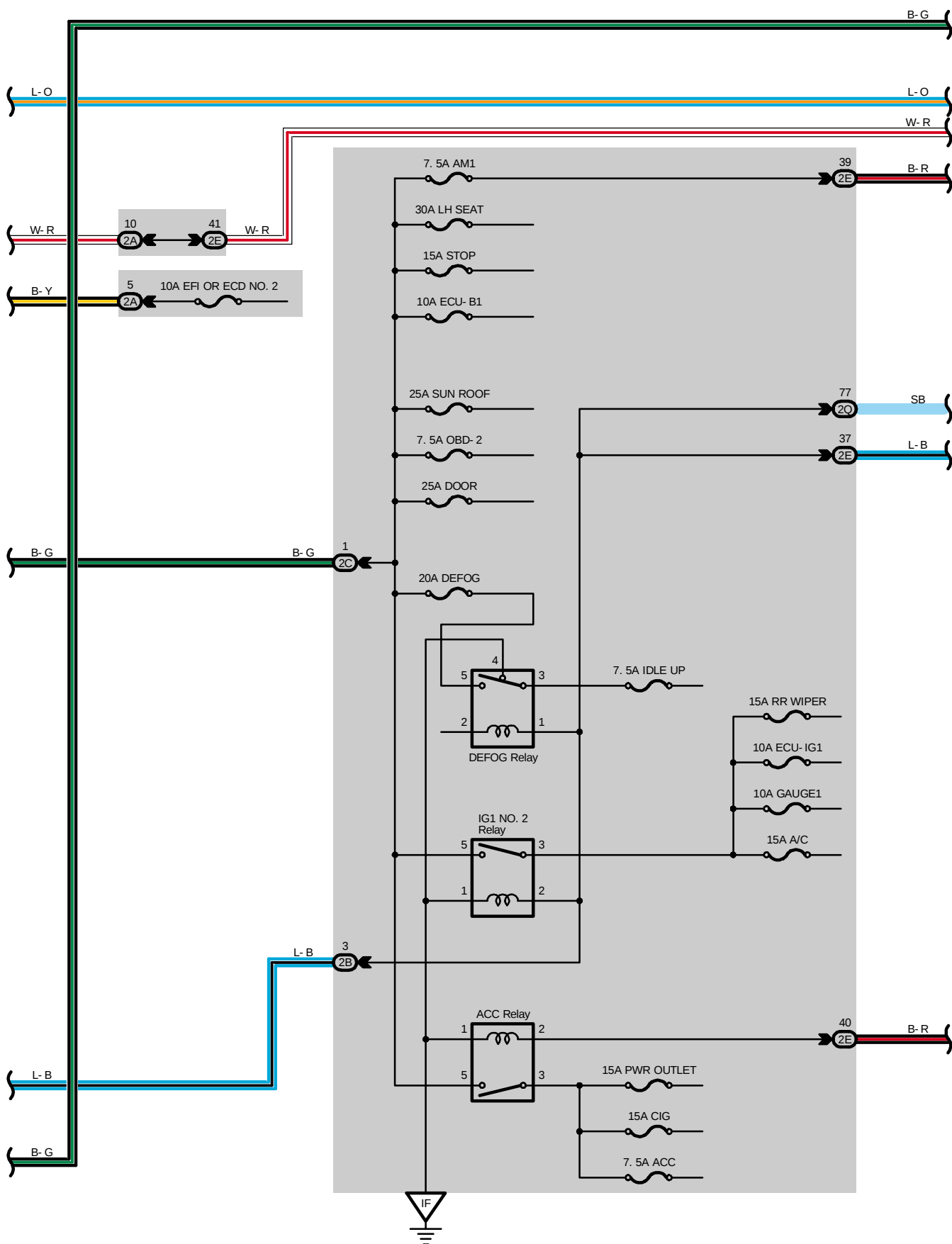
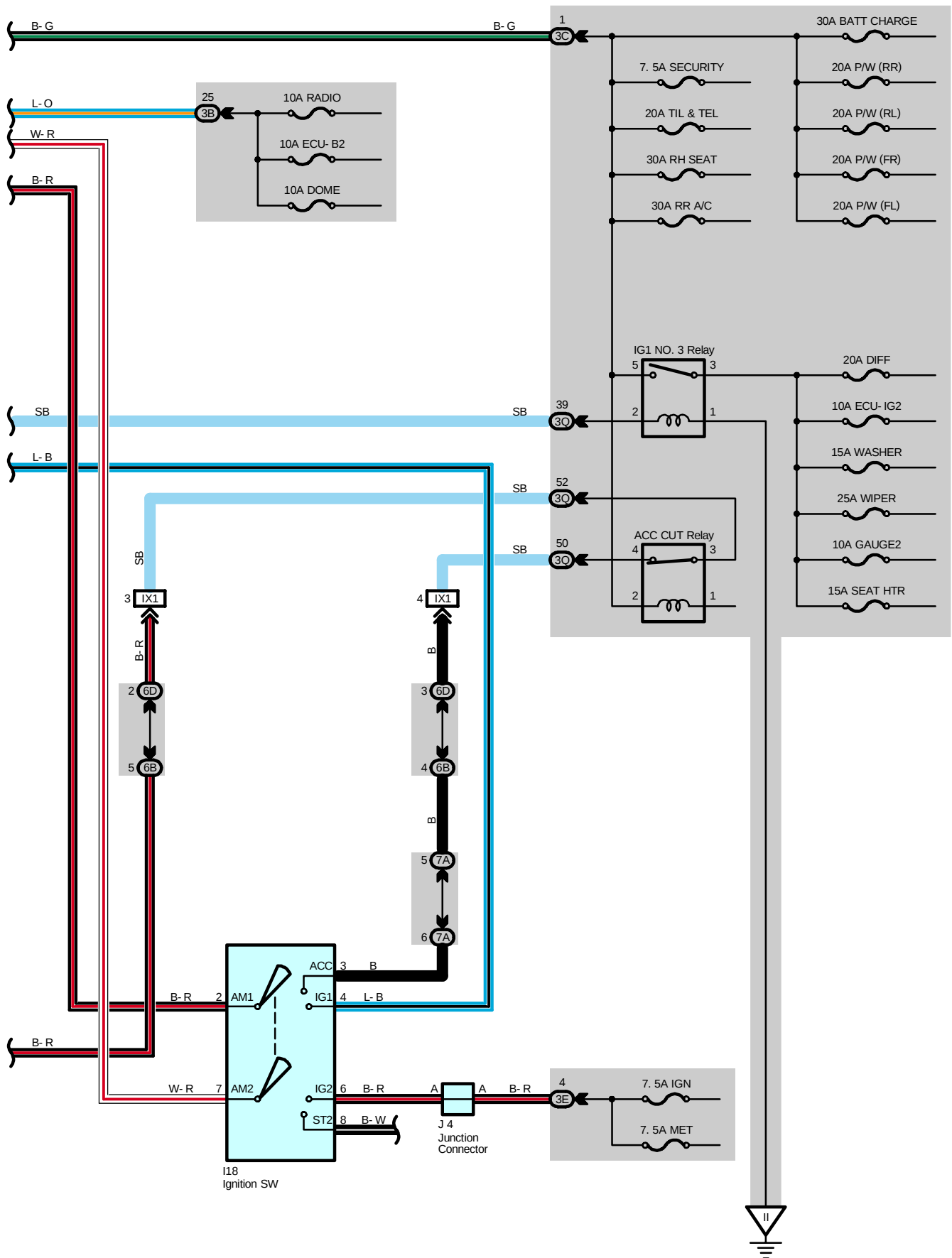


Power Source





Power Source



Service Hints

I18 Ignition SW

- 2-3 : Closed with ignition SW at ACC or ON position
- 2-4 : Closed with ignition SW at ON or ST position
- 7-6 : Closed with ignition SW at ON or ST position
- 7-8 : Closed with ignition SW at ST position

: Parts Location

Code		See Page	Code		See Page	Code		See Page
F15	A	68	F18	D	68	J4	71	
F16	B	68	F19	E	68			
F17	C	68	I18		70			

: 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

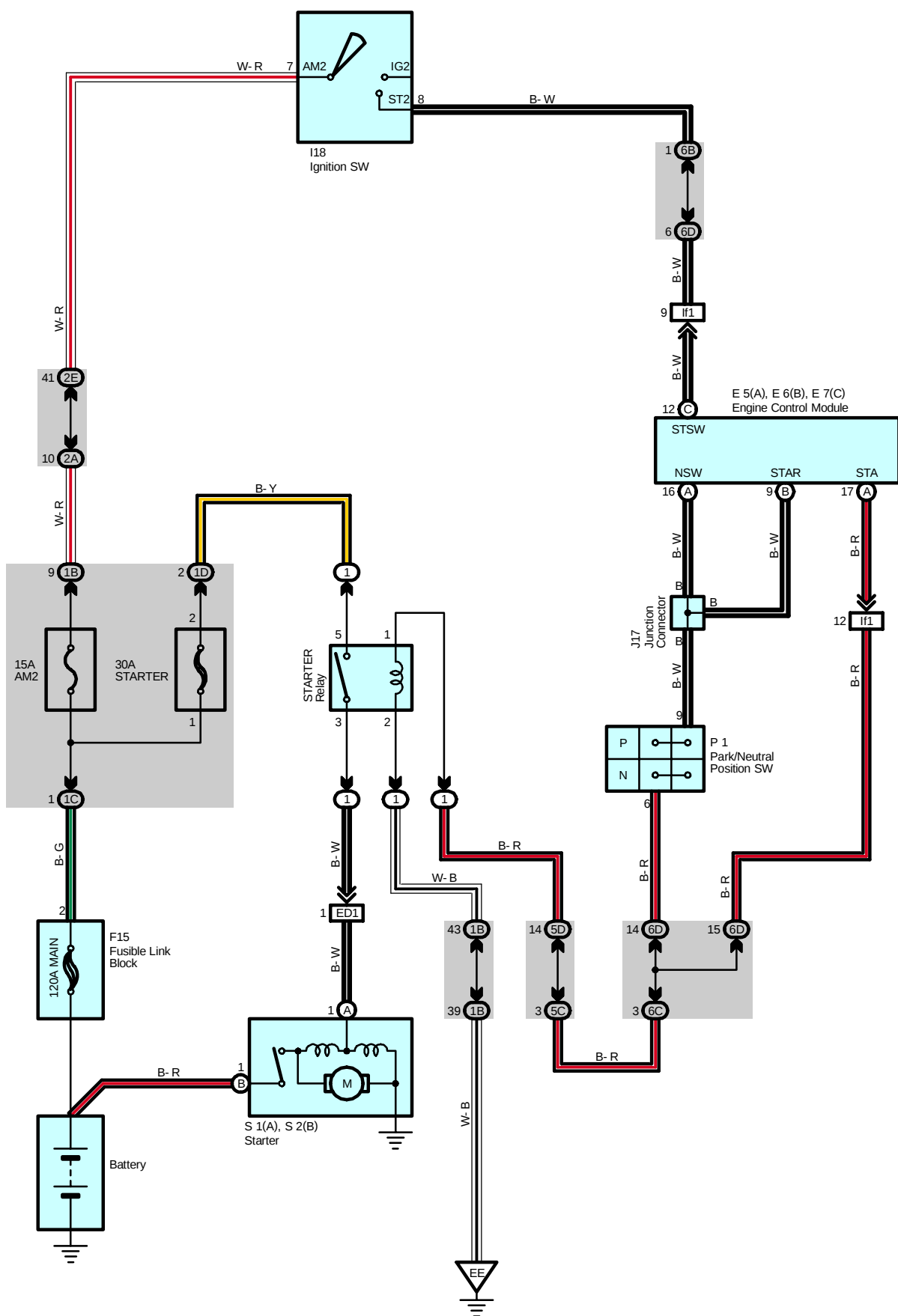
Code	See Page	Junction Block and Wire Harness (Connector Location)
1B	24	Engine Room No.2 Wire and Engine Room J/B (Engine Compartment Left)
1C		
2A	28	Engine Room No.2 Wire and Cowl Side J/B LH (Left Kick Panel)
2B		
2C		
2E	28	Dash Wire and Cowl Side J/B LH (Left Kick Panel)
2Q	30	Instrument Panel Integration Wire and Cowl Side J/B LH (Left Kick Panel)
3B	40	Engine Room No.2 Wire and Cowl Side J/B RH (Right Kick Panel)
3C		
3E	40	Dash Wire and Cowl Side J/B RH (Right Kick Panel)
3Q	42	Instrument Panel Integration Wire and Cowl Side J/B RH (Right Kick Panel)
6B	60	Dash Wire and J/B No.6 (Behind the Grove Box)
6D	60	Engine Wire and J/B No.6 (Behind the Grove Box)
7A	64	Dash Wire and J/B No.7 (Behind the Grove Box)

: Connector Joining Wire Harness and Wire Harness

Code	See Page	Joining Wire Harness and Wire Harness (Connector Location)
IX1	82	Instrument Panel Integration Wire and Engine Wire (Behind the Glove Box)

: Ground Points

Code	See Page	Ground Points Location
EE	76	Front Left Side of Fender Apron
IF	78	Set Bolt of Cowl Side J/B LH
II	78	Set Bolt of Cowl Side J/B RH



Service Hints

I18 Ignition SW

7-8 : Closed with ignition SW at ST position

P1 Park/Neutral Position SW

6-9 : Closed with A/T shift lever in P or N position

S1 (A), S2 (B) Starter

Points closed with Park/Neutral position SW at P or N position and ignition SW at ST position

: Parts Location

Code		See Page	Code		See Page	Code		See Page
E5	A	70	F15	68		P1		69
E6	B	70	I18	70		S1	A	69
E7	C	70	J17	71		S2	B	69

: 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)
1B	24	Engine Room No.2 Wire and Engine Room J/B (Engine Compartment Left)
1C		
1D		
2A	28	Engine Room No.2 Wire and Cowl Side J/B LH (Left Kick Panel)
2E	28	Dash Wire and Cowl Side J/B LH (Left Kick Panel)
5C	56	Dash Wire and J/B No.5 (Behind the Combination Meter)
5D	56	Engine Room No.2 Wire and J/B No.5 (Behind the Combination Meter)
6B	60	Dash Wire and J/B No.6 (Behind the Grove Box)
6C		
6D	60	Engine Wire and J/B No.6 (Behind the Grove Box)

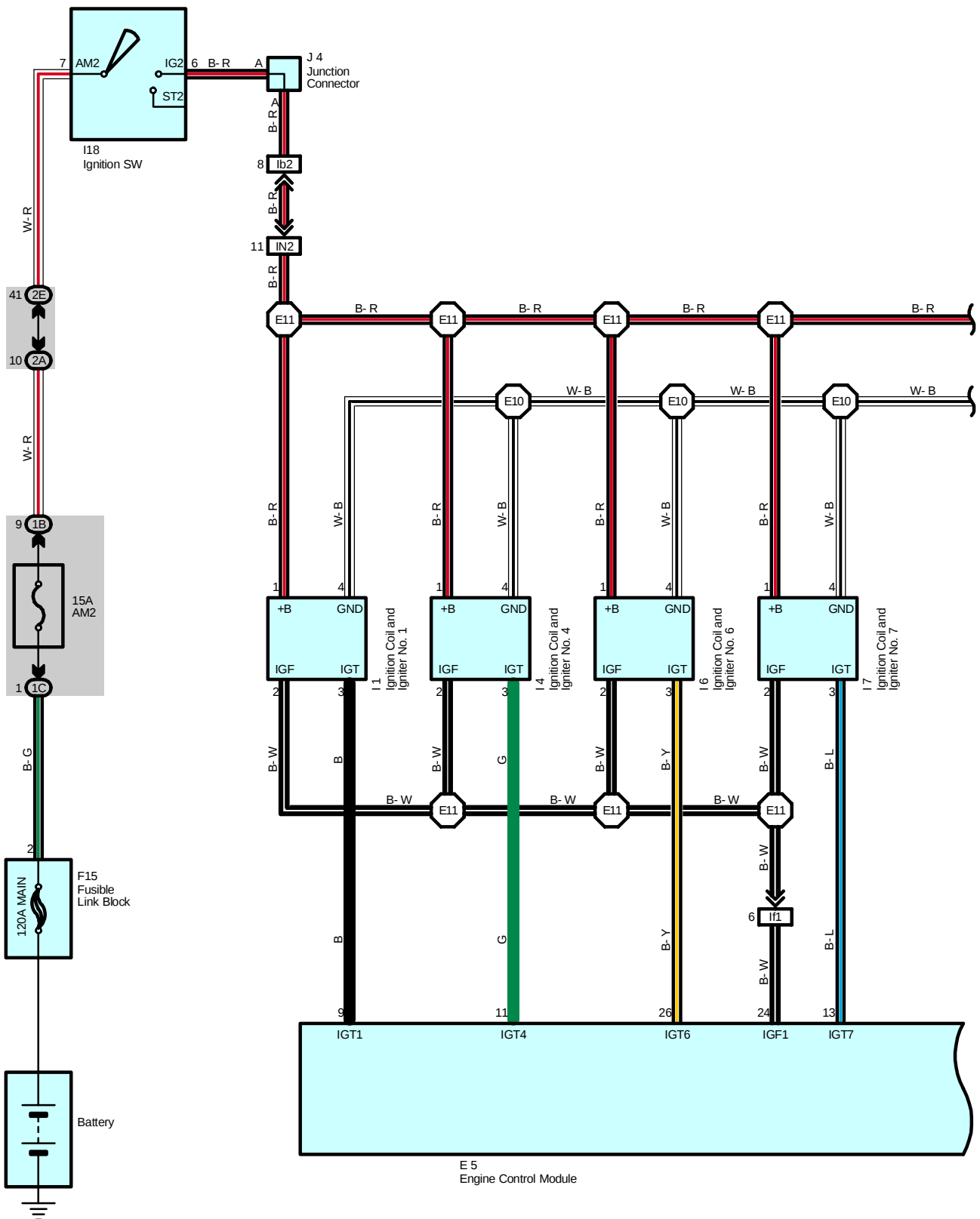
: Connector Joining Wire Harness and Wire Harness

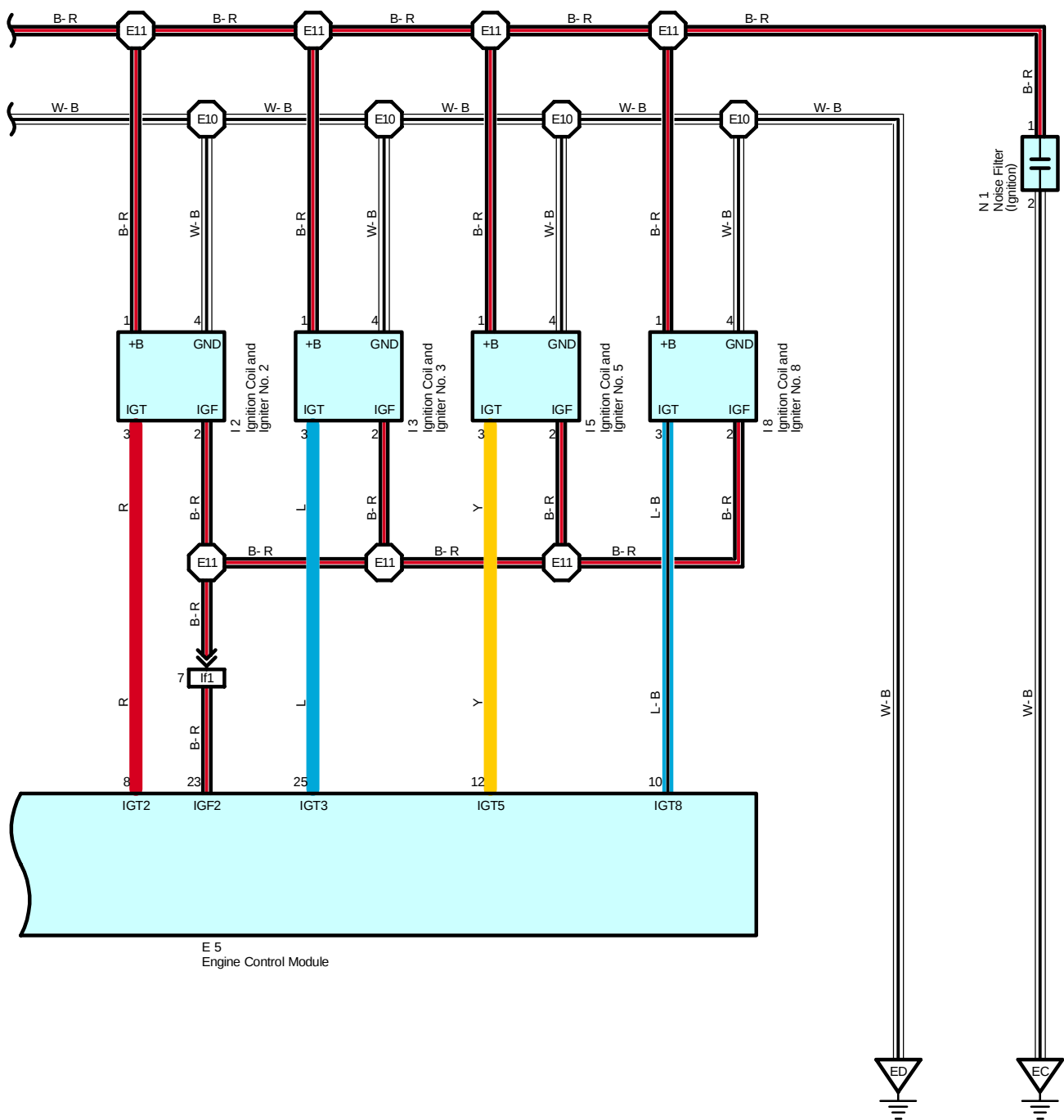
Code	See Page	Joining Wire Harness and Wire Harness (Connector Location)
ED1	76	Engine No.2 Wire and Engine Room No.2 Wire (Near the Engine Room J/B)
If1	84	Engine Wire and Engine Wire (Behind the Glove Box)

: Ground Points

Code	See Page	Ground Points Location
EE	76	Front Left Side of Fender Apron

Ignition





Ignition

Service Hints

I18 Ignition SW

7-6 : Closed with ignition SW at ON or ST position

: Parts Location

Code	See Page	Code	See Page	Code	See Page
E5	70	I4	69	I18	70
F15	68	I5	69	J4	71
I1	69	I6	69	N1	69
I2	69	I7	69		
I3	69	I8	69		

: Junction Block and Wire Harness Connector

Code	See Page	Junction Block and Wire Harness (Connector Location)
1B	24	Engine Room No.2 Wire and Engine Room J/B (Engine Compartment Left)
1C		
2A	28	Engine Room No.2 Wire and Cowl Side J/B LH (Left Kick Panel)
2E	28	Dash Wire and Cowl Side J/B LH (Left Kick Panel)

: Connector Joining Wire Harness and Wire Harness

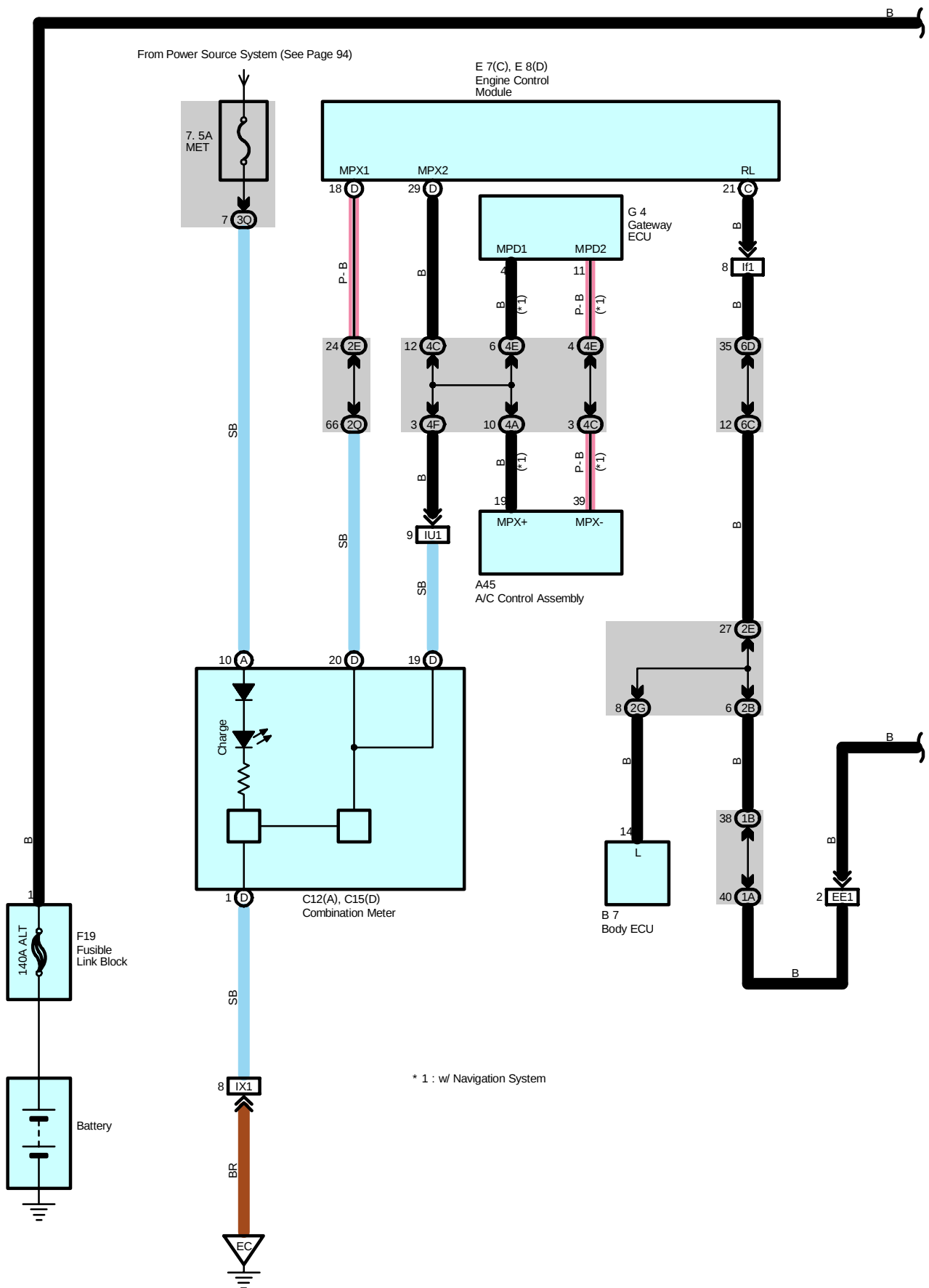
Code	See Page	Joining Wire Harness and Wire Harness (Connector Location)
IN2	80	Engine Wire and Dash Wire (Behind the Glove Box)
Ib2	84	Dash Wire and Dash Wire (Behind the Combination Meter)
If1	84	Engine Wire and Engine Wire (Behind the Glove Box)

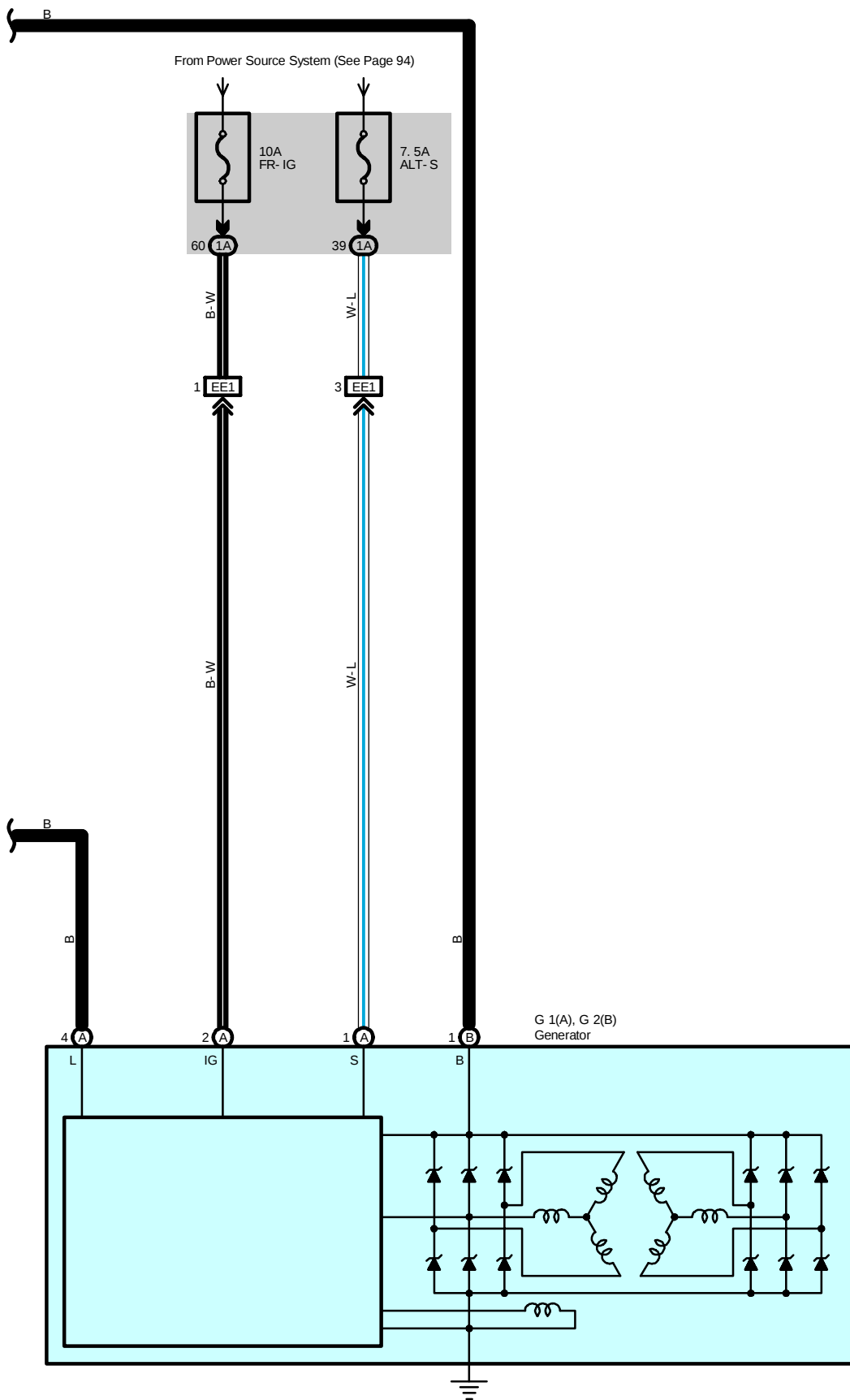
: Ground Points

Code	See Page	Ground Points Location
EC	76	Rear Bank of Right Cylinder Head
ED	76	Rear Bank of Left Cylinder Head

: Splice Points

Code	See Page	Wire Harness with Splice Points	Code	See Page	Wire Harness with Splice Points
E10	76	Engine Wire	E11	76	Engine Wire





Charging

Service Hints

G2 Generator

1-Ground : 13.2-14.0 volts with engine running at 5000 rpm and 115°C (239°F)

: Parts Location

Code		See Page		Code		See Page		Code		See Page	
A45		70		E7	C	70		G2	B	68	
B7		70		E8	D	70		G4		70	
C12	A	70		F19		68					
C15	D	70		G1	A	68					

: 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	24	Engine Room No.2 Wire and Engine Room J/B (Engine Compartment Left)
2B	28	Engine Room No.2 Wire and Cowl Side J/B LH (Left Kick Panel)
2E	28	Dash Wire and Cowl Side J/B LH (Left Kick Panel)
2G		
2Q	30	Instrument Panel Integration Wire and Cowl Side J/B LH (Left Kick Panel)
3Q	42	Instrument Panel Integration Wire and Cowl Side J/B RH (Right Kick Panel)
4A	52	Dash Wire and J/B No.4 (Instrument Panel Center)
4C		
4E		
4F		
6C	60	Dash Wire and J/B No.6 (Behind the Grove Box)
6D	60	Engine Wire and J/B No.6 (Behind the Grove Box)

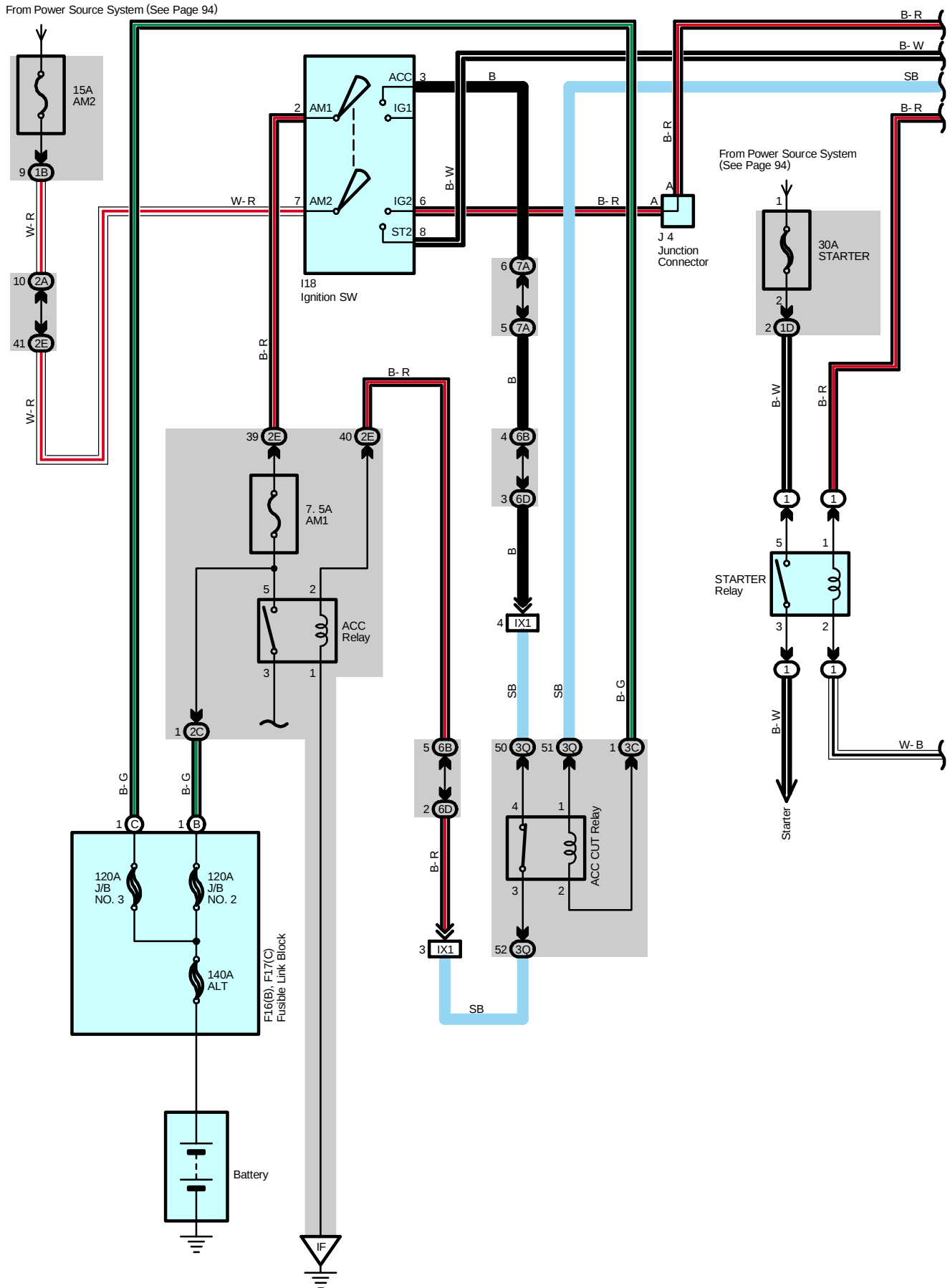
: Connector Joining Wire Harness and Wire Harness

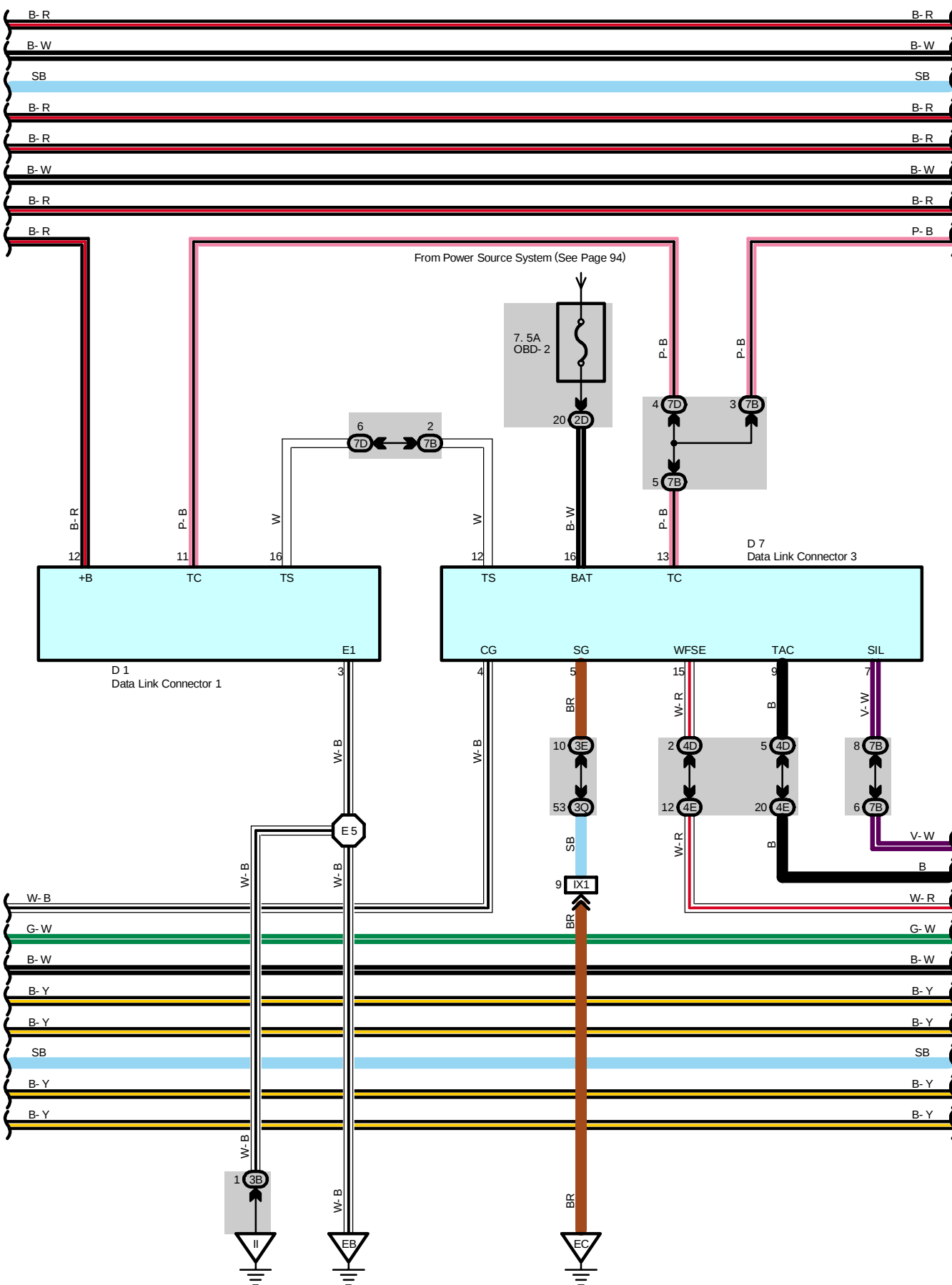
Code	See Page	Joining Wire Harness and Wire Harness (Connector Location)
EE1	76	Engine Room Main Wire and Alternator Wire (Near the Battery)
IU1	82	Instrument Panel Integration Wire and Dash Wire (Behind the Glove Box)
IX1	82	Instrument Panel Integration Wire and Engine Wire (Behind the Glove Box)
If1	84	Engine Wire and Engine Wire (Behind the Glove Box)

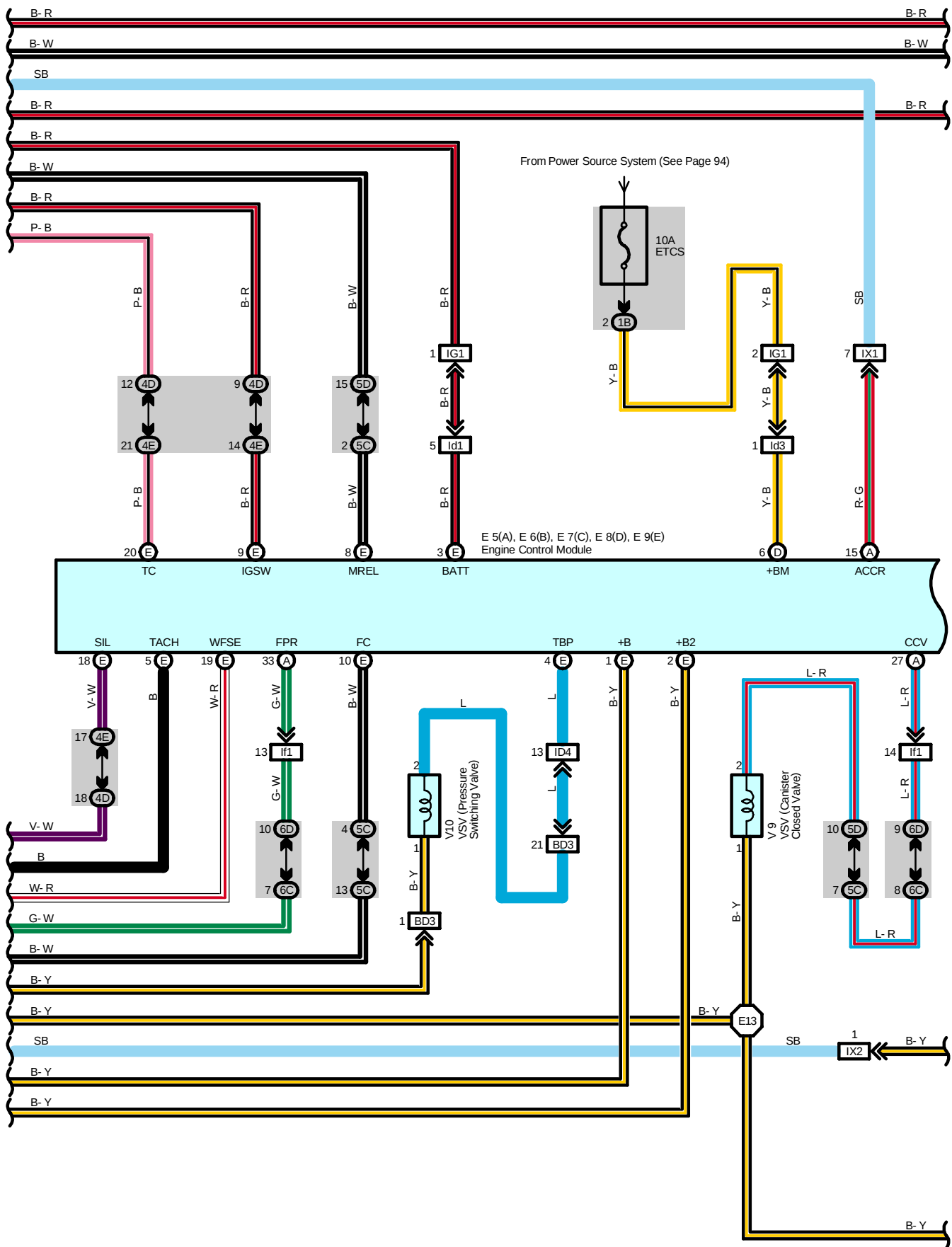
: Ground Points

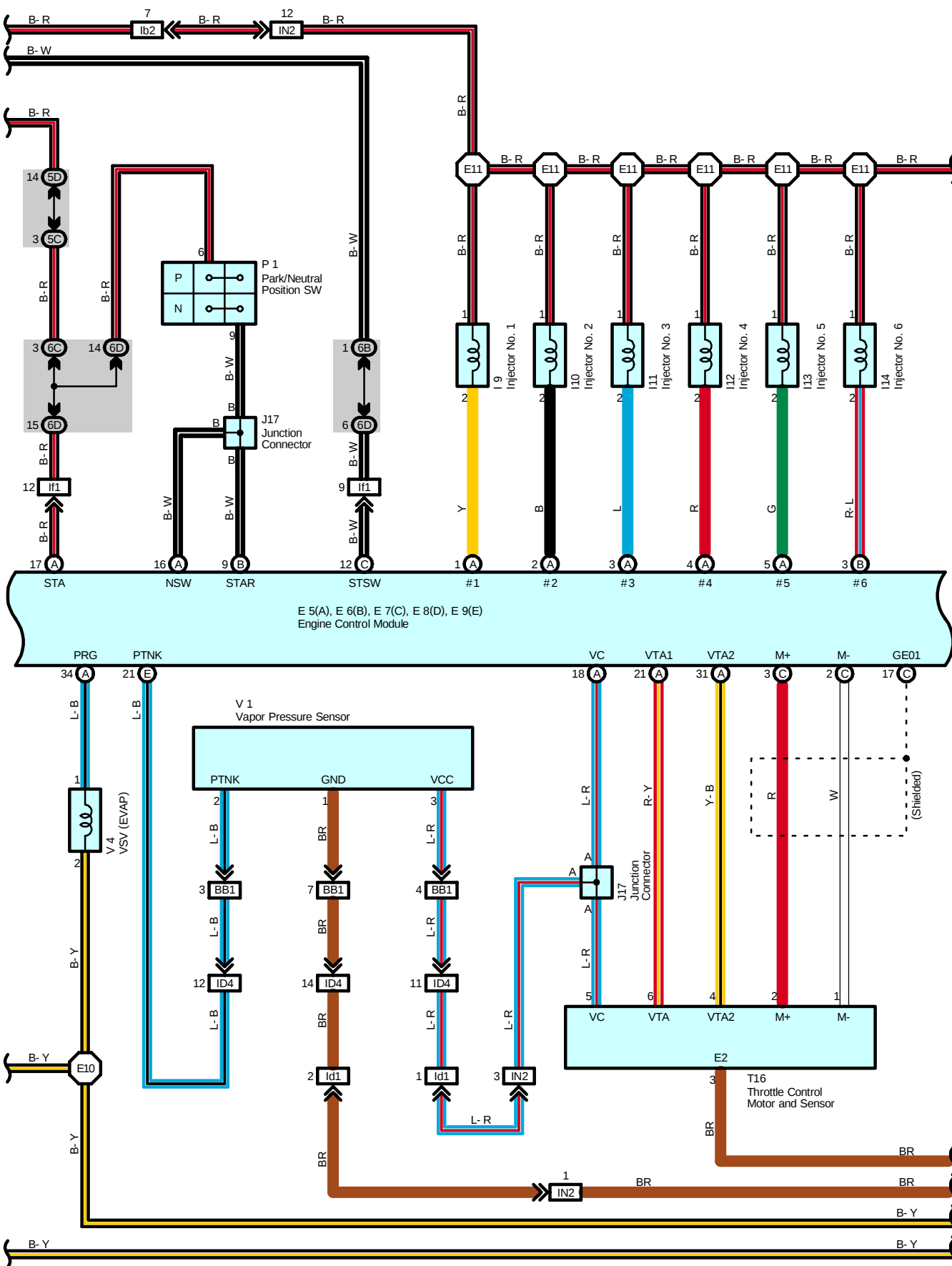
Code	See Page	Ground Points Location
EC	76	Rear Bank of Right Cylinder Head

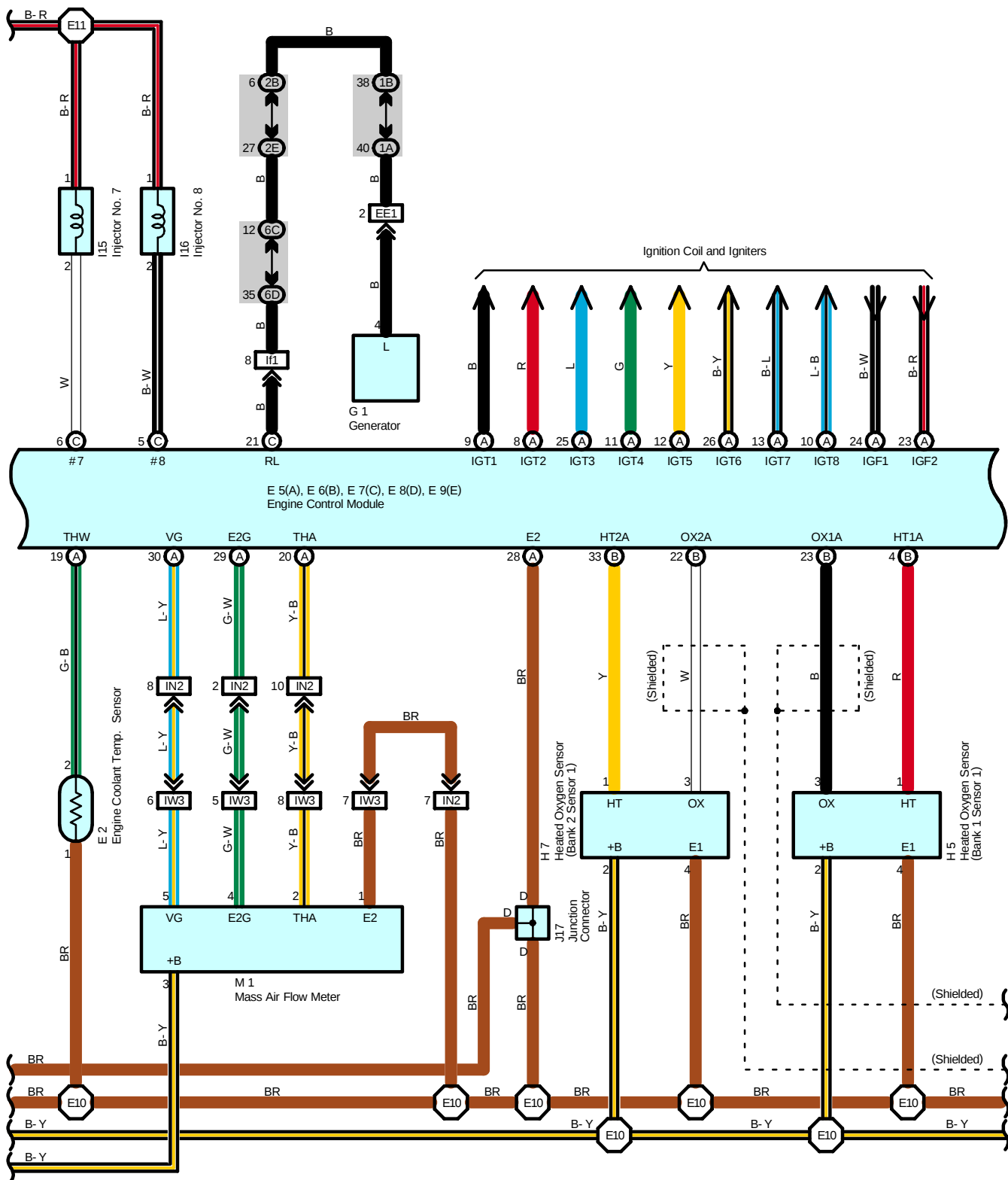
Engine Control

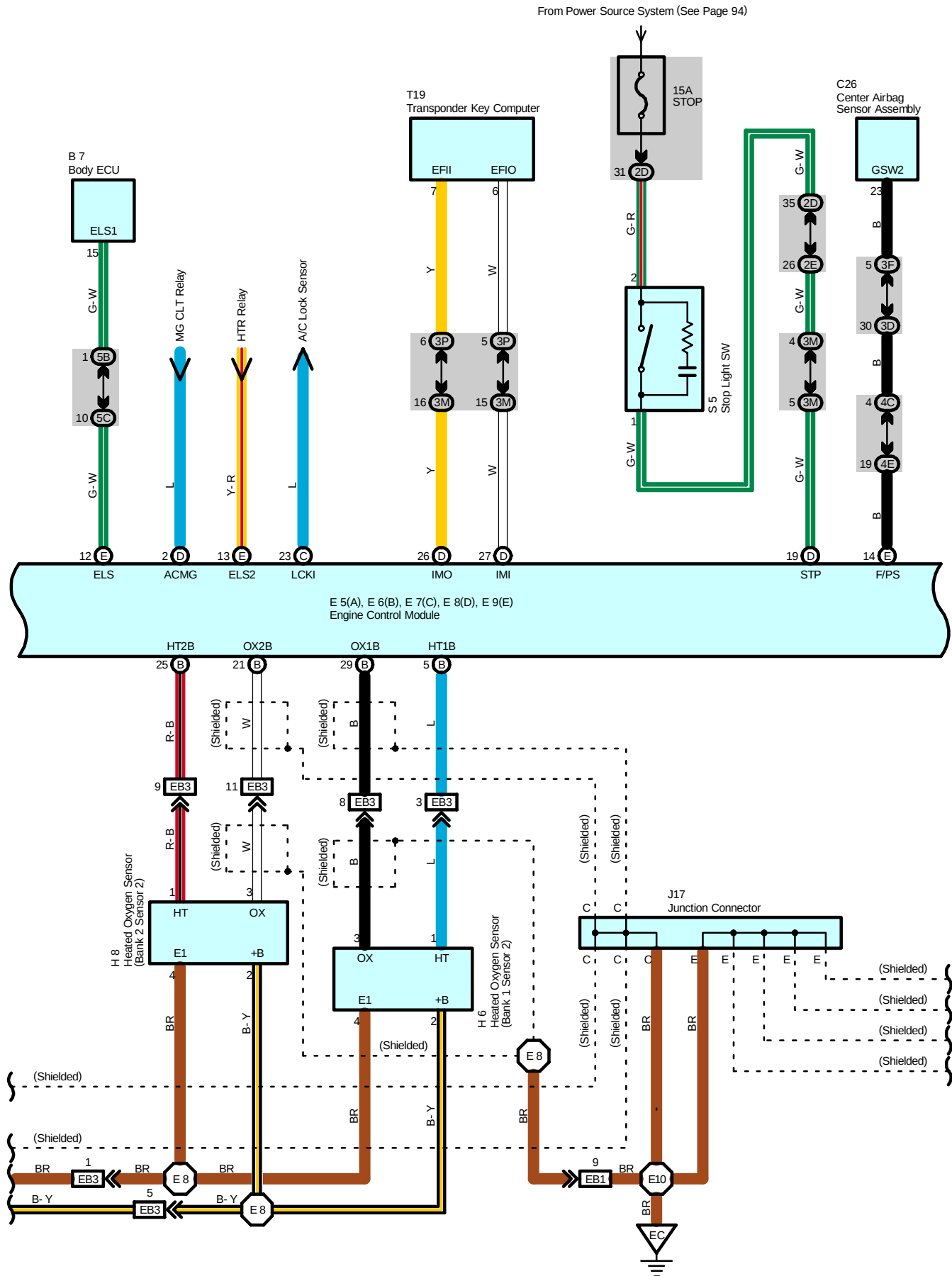


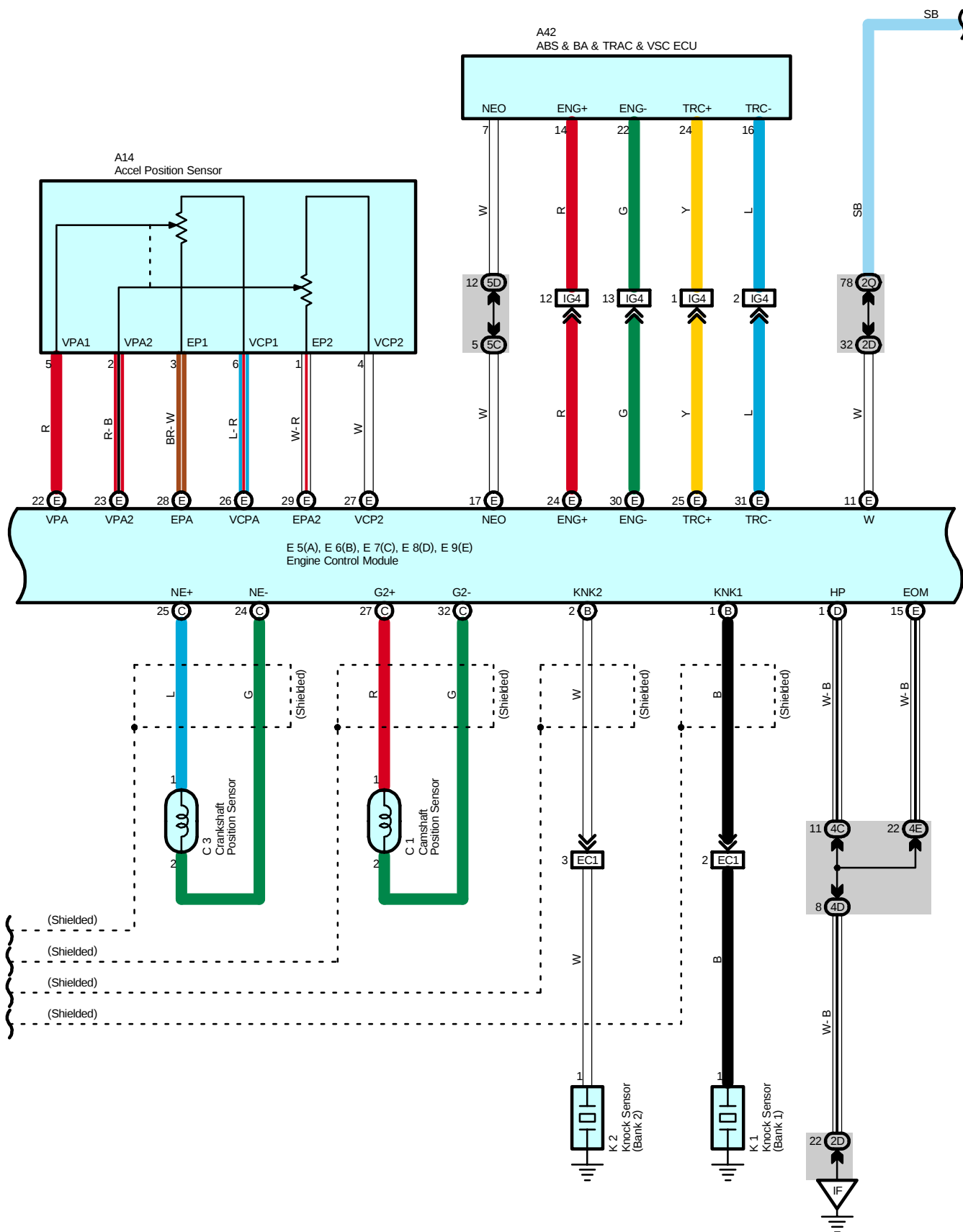


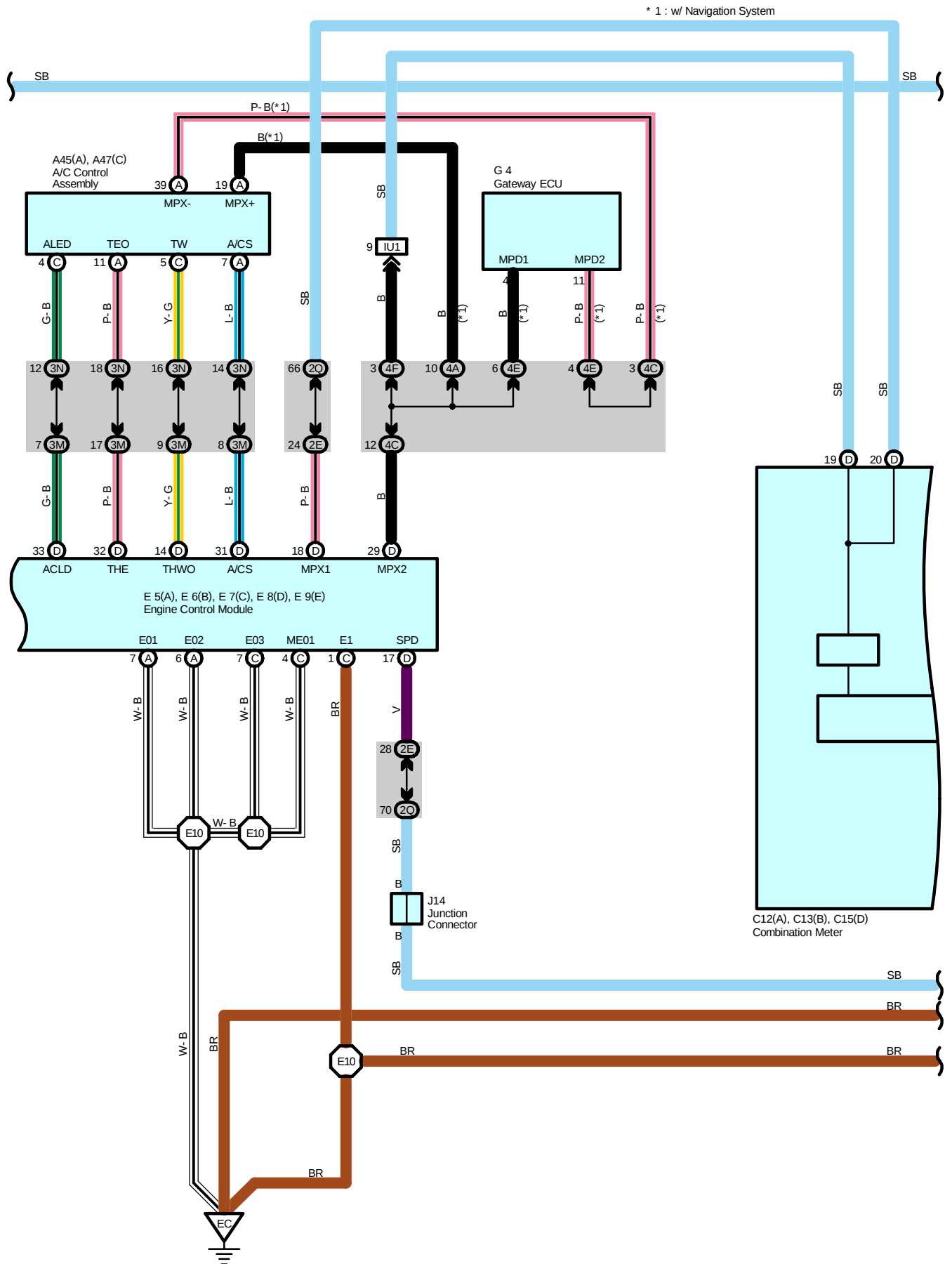












System Outline

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

1. Input Signals

(1) 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 OX1A, OX1B, OX2A, OX2B of the engine control module.

(4) RPM signal circuit

The camshaft position is detected by the camshaft position sensor and is input into TERMINAL G2+ of the engine control module as a control signal. Also, the engine RPM is detected by the crankshaft position sensor and the signal is input into TERMINAL NE+ of the engine control module.

(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, VTA2 of the engine control module.

(6) Vehicle speed circuit

The vehicle speed sensor (Combination meter) detects the vehicle speed, and the signal is input into TERMINAL SPD of the engine control module via the combination meter.

(7) Battery signal circuit

Voltage is constantly applied to TERMINAL BATT of the engine control module. When the ignition SW is turned on, the voltage for engine control module start up power supply is applied through the EFI OR ECD relay, to TERMINALS +B, +B2 of the engine control module. The current from the IGN fuse flows to TERMINAL IGSW of the engine control module, and voltage is constantly applied to TERMINAL +BM.

(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 light SW signal circuit

The stop light SW is used to detect whether the vehicle is braking or not, and the signal is input into TERMINAL STP of the engine 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 sensors, and is input into TERMINALS KNK1, KNK2 of the engine control module as a control signal.

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 #1, #2, #3, #4, #5, #6, #7, #8 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, IGT6, IGT7, IGT8, 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 HT1A, HT1B, HT2A, HT2B to control the heater.

* Fuel pump control system

The engine control module supplies current to TERMINAL FPR, and controls the operation speed of the fuel pump by the F/PUMP relay.

* 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.

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.

Service Hints

E2 Engine Coolant Temp. Sensor

- 1-2 : Approx. 15.0 kΩ (-20°C, -4°F)
- : Approx. 2.45 kΩ (20°C, 68°F)
- : Approx. 0.32 kΩ (80°C, 176°F)

E5 (A), E7 (C), E8 (D), E9 (E) Engine Control Module

- BATT-E1 : Always 9.0-14.0 volts
- +BM-E1 : Always 9.0-14.0 volts
- IGSW-E1 : 9.0-14.0 volts with ignition SW at ON or ST position
- +B, +B2-E1 : 9.0-14.0 volts with ignition SW at ON or ST position
- VC-E2 : 4.5-5.5 volts with ignition SW on
- VTA2-E2 : 2.0-2.9 volts with ignition SW on and accelerator pedal released
- : 4.6-5.1 volts with ignition SW on and accelerator pedal depressed
- VTA1-E2 : 0.4-1.0 volts with ignition SW on and accelerator pedal released
- : 3.2-4.8 volts with ignition SW on and accelerator pedal depressed
- THA-E2 : 0.5-3.4 volts with idling, intake air temp. 20°C (68°F)
- THW-E2 : 0.2-1.0 volts with idling, engine coolant temp. 80°C (176°F)
- W-E1 : 9.0-14.0 volts with idling
- : Below 3.0 volts with ignition SW on

Engine Control

○ : Parts Location

Code		See Page	Code		See Page	Code		See Page
A14		70	E9	E	70	I16		69
A42		70	F12		72	I18		70
A45	A	70	F14		68	J4		71
A47	C	70	F16	B	68	J14		71
B7		70	F17	C	68	J17		71
C1		68	G1		68	K1		69
C3		68	G4		70	K2		69
C12	A	70	H5		69	M1		69
C13	B	70	H6		69	P1		69
C15	D	70	H7		69	S5		71
C26		70	H8		69	T16		69
D1		68	I9		69	T19		71
D7		70	I10		69	V1		73
E2		68	I11		69	V2		69
E5	A	70	I12		69	V4		69
E6	B	70	I13		69	V9		69
E7	C	70	I14		69	V10		73
E8	D	70	I15		69			

○ : 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	24	Engine Room No.2 Wire and Engine Room J/B (Engine Compartment Left)
1D		
2A	28	Engine Room No.2 Wire and Cowl Side J/B LH (Left Kick Panel)
2B		
2C		
2D	28	Dash Wire and Cowl Side J/B LH (Left Kick Panel)
2E		
2K	28	Floor No.1 Wire and Cowl Side J/B LH (Left Kick Panel)
2Q	30	Instrument Panel Integration Wire and Cowl Side J/B LH (Left Kick Panel)
3B	40	Engine Room No.2 Wire and Cowl Side J/B RH (Right Kick Panel)
3C		
3D	40	Dash Wire and Cowl Side J/B RH (Right Kick Panel)
3E		
3F		
3M	43	Dash Wire and Cowl Side J/B RH (Right Kick Panel)
3N		
3P		
3Q	42	Instrument Panel Integration Wire and Cowl Side J/B RH (Right Kick Panel)
4A	52	Dash Wire and J/B No.4 (Instrument Panel Center)
4C		
4D		
4E		
4F		
5B	56	Dash Wire and J/B No.5 (Behind the Combination Meter)
5C		
5D	56	Engine Room No.2 Wire and J/B No.5 (Behind the Combination Meter)
6B	60	Dash Wire and J/B No.6 (Behind the Grove Box)
6C		
6D	60	Engine Wire and J/B No.6 (Behind the Grove Box)
7A	64	Dash Wire and J/B No.7 (Behind the Grove Box)
7B		
7D	64	Engine Room No.2 Wire and J/B No.7 (Behind the Grove Box)

Engine Control

: Connector Joining Wire Harness and Wire Harness

Code	See Page	Joining Wire Harness and Wire Harness (Connector Location)
EB1	76	Engine Wire and Transmission Wire (On the Transmission)
EB3		
EC1	76	Engine No.2 Wire and Engine Wire (On the Transmission)
EE1	76	Engine Room Main Wire and Alternator Wire (Near the Battery)
IA2	78	Engine Room No.2 Wire and Floor No.1 Wire (Left Kick Panel)
ID4	78	Dash Wire and Floor No.1 Wire (Left Kick Panel)
IG1	78	Engine Room No.2 Wire and Dash Wire (Behind the Combination Meter)
IG4		
IN2	80	Engine Wire and Dash Wire (Behind the Glove Box)
IU1	82	Instrument Panel Integration Wire and Dash Wire (Behind the Glove Box)
IW3	82	Engine Room No.2 Wire and Dash Wire (Behind the Glove Box)
IX1	82	Instrument Panel Integration Wire and Engine Wire (Behind the Glove Box)
IX2		
Ib2	84	Dash Wire and Dash Wire (Behind the Combination Meter)
Id1	84	Dash Wire and Dash Wire (Instrument Panel Center)
Id3		
If1	84	Engine Wire and Engine Wire (Behind the Glove Box)
BB1	86	Floor No.1 Wire and Fuel Tank Wire (Near the Fuel Tank)
BD3	86	Floor No.3 Wire and Floor No.1 Wire (Left Rear Side Quarter Panel)

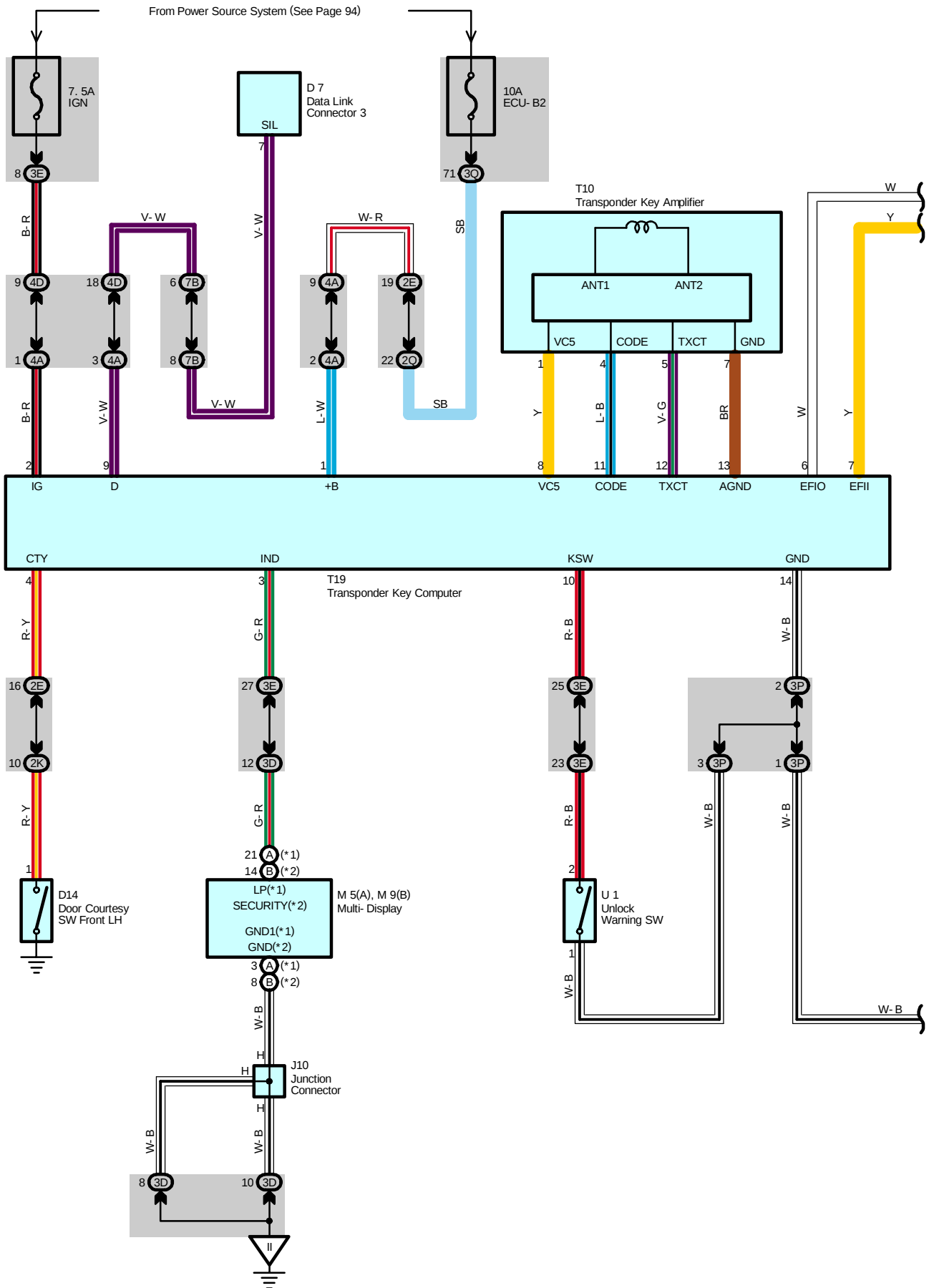
: Ground Points

Code	See Page	Ground Points Location
EA	76	Front Right Side of Fender Apron
EB		
EC	76	Rear Bank of Right Cylinder Head
EE	76	Front Left Side of Fender Apron
IF	78	Set Bolt of Cowl Side J/B LH
II	78	Set Bolt of Cowl Side J/B RH

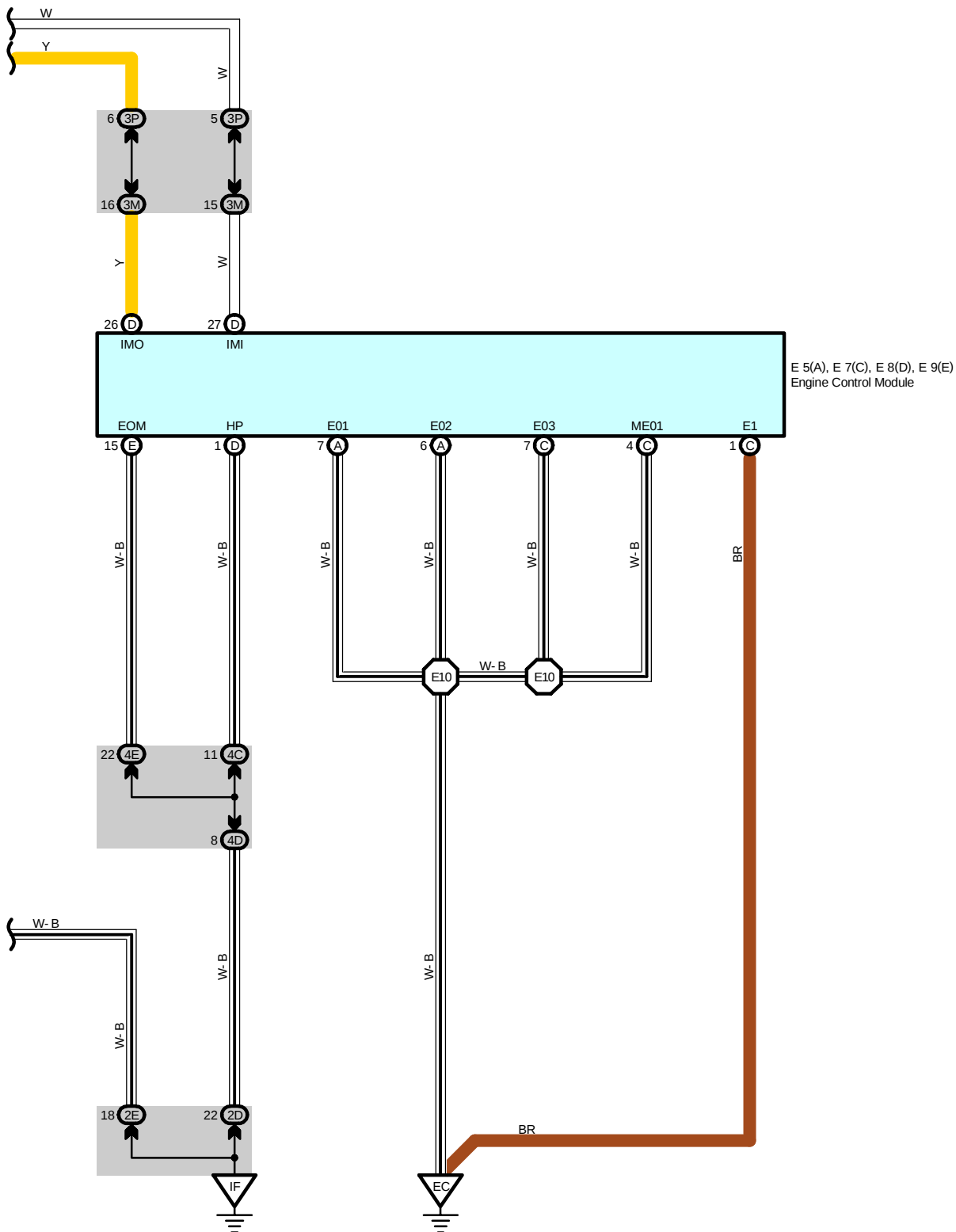
: Splice Points

Code	See Page	Wire Harness with Splice Points	Code	See Page	Wire Harness with Splice Points
E4	76	Engine Room No.2 Wire	E11	76	Engine Wire
E5			E13	76	Engine Room No.2 Wire
E8	76	Transmission Wire	E14		
E10	76	Engine Wire	E16		

Engine Immobilizer System



* 1 : w/ Navigation System
* 2 : w/o Navigation System



Engine Immobilizer System

Service Hints

T19 Transponder Key Computer

- 1-Ground : Always approx. 12 volts
- 2-Ground : Approx. 12 volts with ignition SW at ON or ST position
- 14-Ground : Always continuity

: Parts Location

Code		See Page		Code		See Page		Code		See Page	
D7		70		E8	D	70		M9	B	71	
D14		72		E9	E	70		T10		71	
E5	A	70		J10		71		T19		71	
E7	C	70		M5	A	71		U1		71	

: Junction Block and Wire Harness Connector

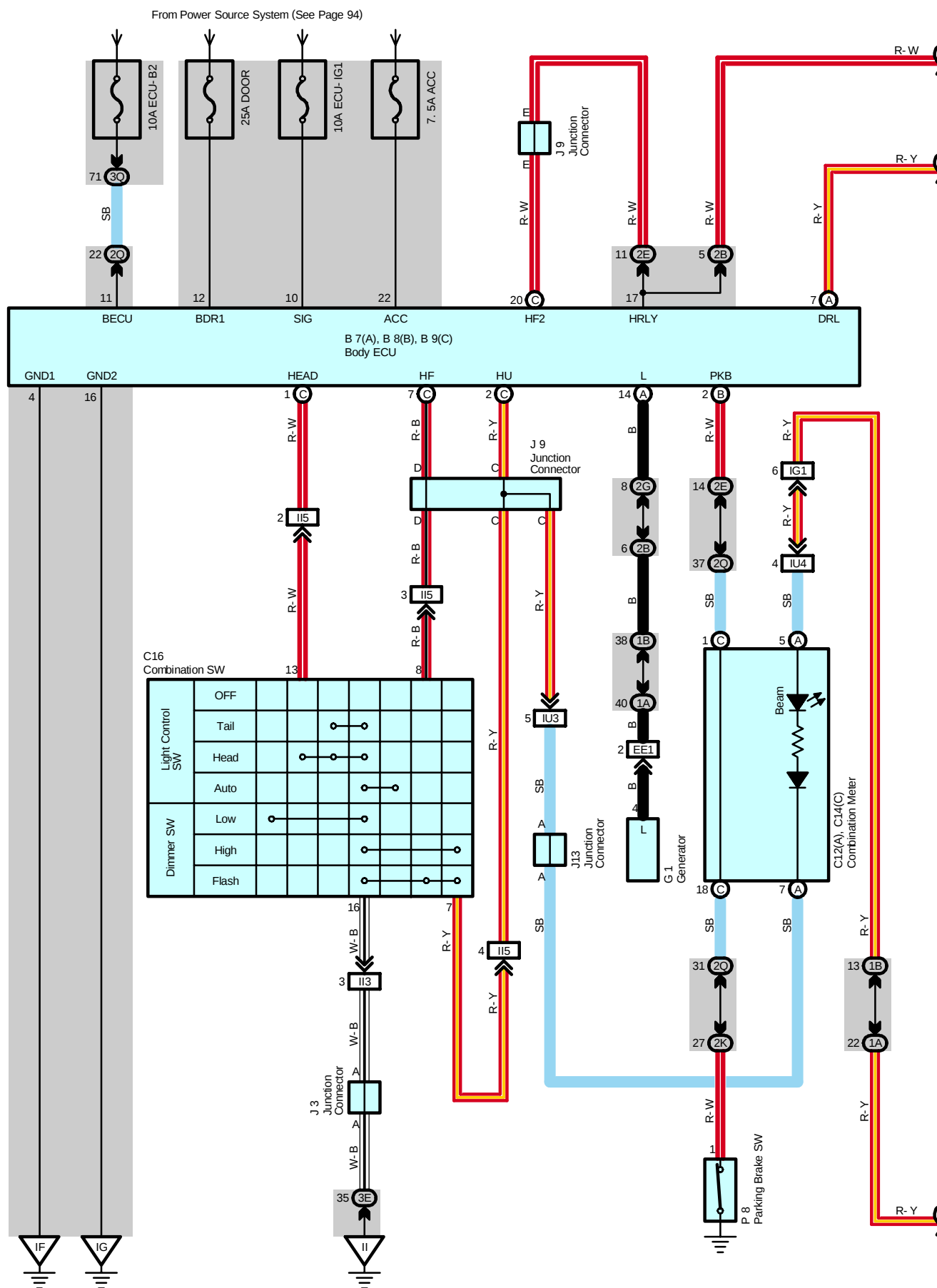
Code	See Page	Junction Block and Wire Harness (Connector Location)
2D	28	Dash Wire and Cowl Side J/B LH (Left Kick Panel)
2E		
2K	28	Floor No.1 Wire and Cowl Side J/B LH (Left Kick Panel)
2Q	30	Instrument Panel Integration Wire and Cowl Side J/B LH (Left Kick Panel)
3D	40	Dash Wire and Cowl Side J/B RH (Right Kick Panel)
3E		
3M	43	Dash Wire and J/B No.4 (Instrument Panel Center)
3P		
3Q	42	Instrument Panel Integration Wire and Cowl Side J/B RH (Right Kick Panel)
4A	52	Dash Wire and J/B No.7 (Behind the Grove Box)
4C		
4D		
4E		
7B	64	

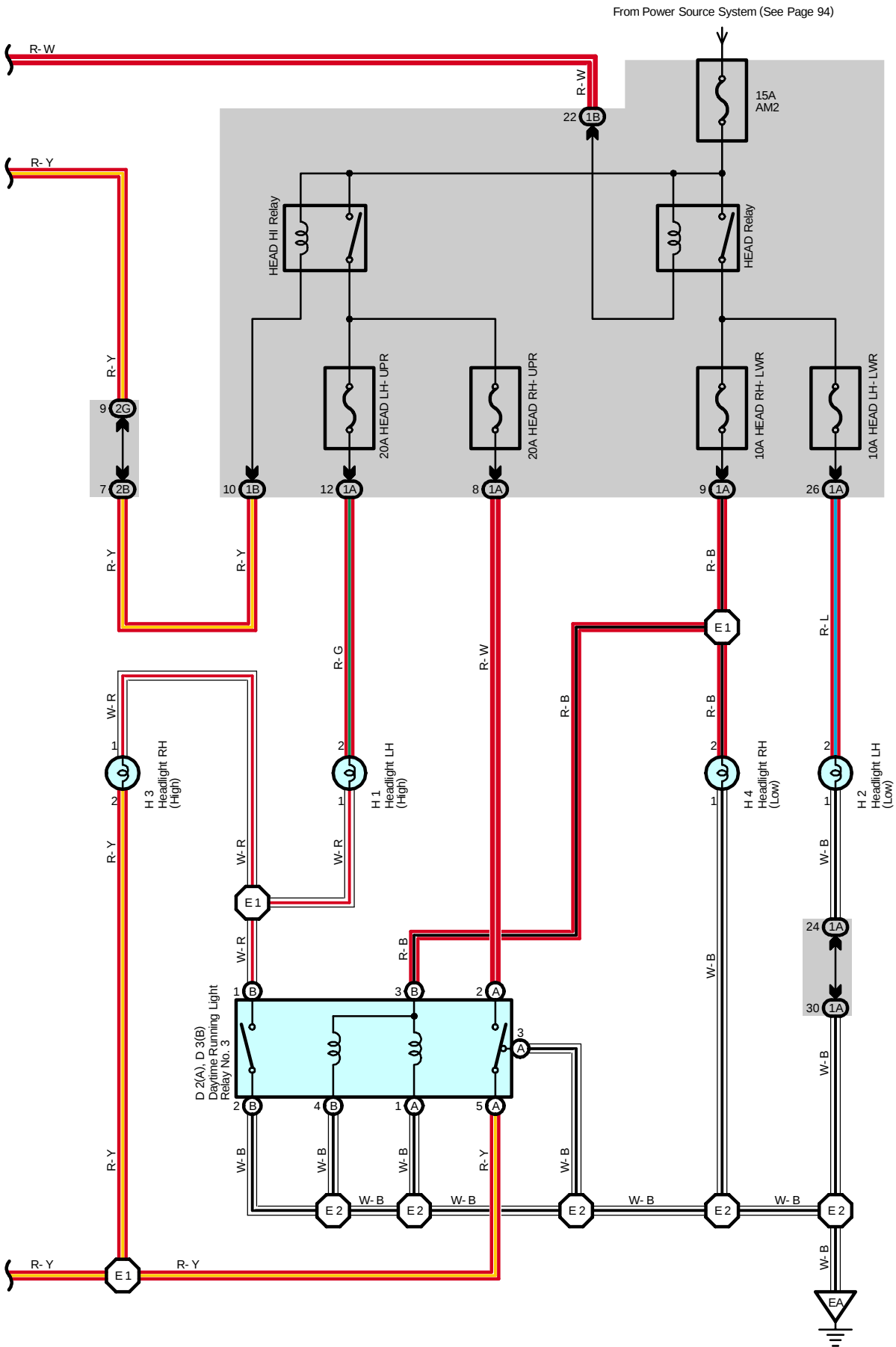
: Ground Points

Code	See Page	Ground Points Location
EC	76	Rear Bank of Right Cylinder Head
IF	78	Set Bolt of Cowl Side J/B LH
II	78	Set Bolt of Cowl Side J/B RH

: Splice Points

Code	See Page	Wire Harness with Splice Points	Code	See Page	Wire Harness with Splice Points
E10	76	Engine Wire			





Headlight

System Outline

Daytime Running Light Operation

When the engine is started, a signal from the generator is input into TERMINAL (A) 14 of the body ECU. At this time, if the parking brake lever is pulled up (Parking brake SW ON), the body ECU is not activated, and the daytime running light system does not operate.

When the parking brake lever is released (Parking brake SW OFF), a signal is input into TERMINAL (B) 2 of the body ECU. This activates the body ECU and the headlight turns on.

Service Hints

C16 Combination SW

13-16 : Closed with light control SW at HEAD position

8-16 : Closed with dimmer SW at FLASH position

7-16 : Closed with dimmer SW at HIGH or FLASH position

○ : Parts Location

Code	See Page	Code	See Page	Code	See Page
B7	A 70	D2	A 68	H4	69
B8	B 70	D3	B 68	J3	71
B9	C 70	G1	68	J9	71
C12	A 70	H1	69	J13	71
C14	C 70	H2	69	P8	73
C16	70	H3	69		

○ : 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	24	Engine Room No.2 Wire and Engine Room J/B (Engine Compartment Left)
2B	28	Engine Room No.2 Wire and Cowl Side J/B LH (Left Kick Panel)
2E	28	Dash Wire and Cowl Side J/B LH (Left Kick Panel)
2G		
2K	28	Floor No.1 Wire and Cowl Side J/B LH (Left Kick Panel)
2Q	30	Instrument Panel Integration Wire and Cowl Side J/B LH (Left Kick Panel)
3E	40	Dash Wire and Cowl Side J/B RH (Right Kick Panel)
3Q	42	Instrument Panel Integration Wire and Cowl Side J/B RH (Right Kick Panel)

□ : Connector Joining Wire Harness and Wire Harness

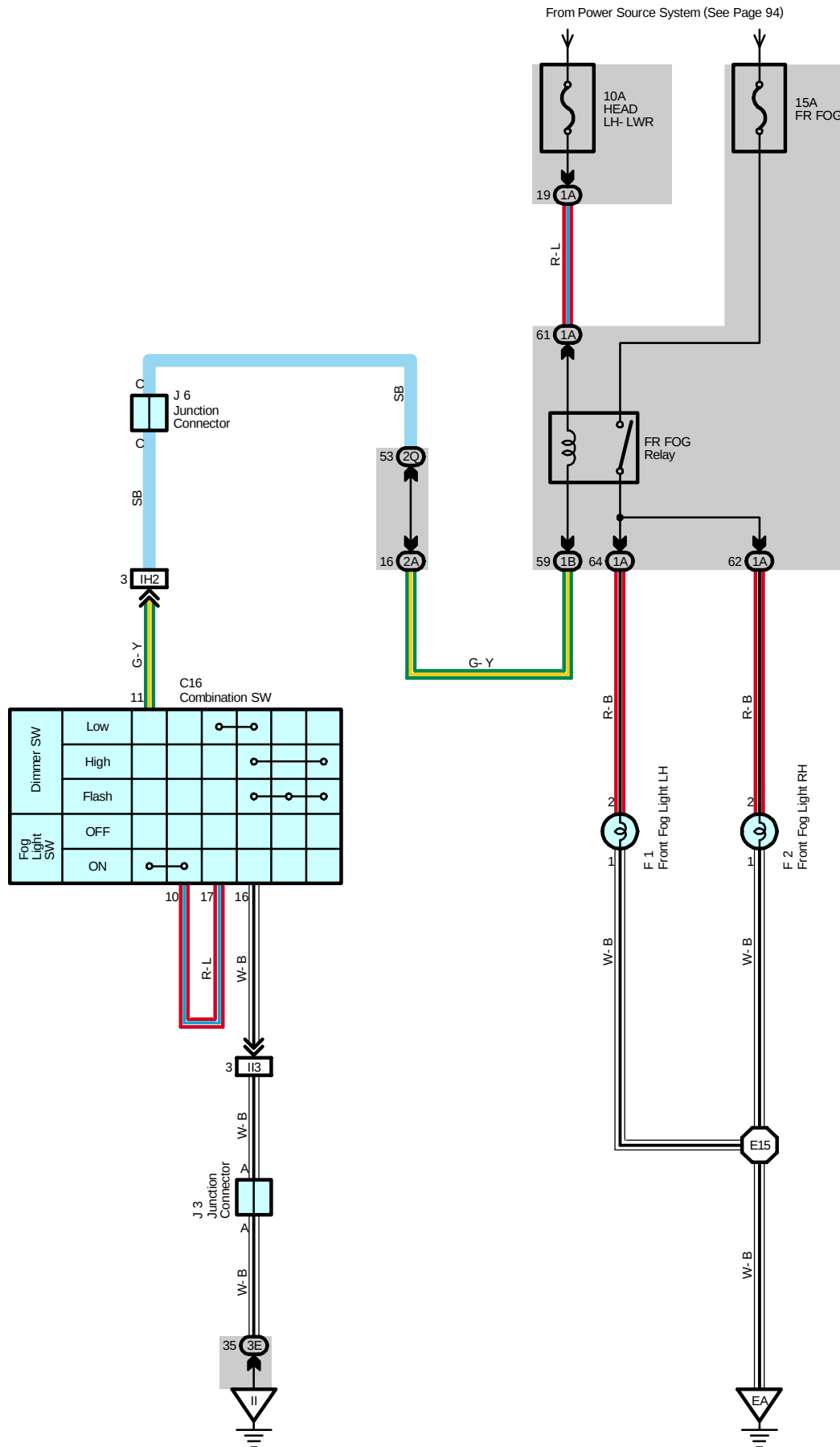
Code	See Page	Joining Wire Harness and Wire Harness (Connector Location)
EE1	76	Engine Room Main Wire and Alternator Wire (Near the Battery)
IG1	78	Engine Room No.2 Wire and Dash Wire (Behind the Combination Meter)
II3	80	Dash Wire and Column Wire (Near the Ignition SW)
II5		
IU3	82	Instrument Panel Integration Wire and Dash Wire (Behind the Glove Box)
IU4		

▽ : Ground Points

Code	See Page	Ground Points Location
EA	76	Front Right Side of Fender Apron
IF	78	Set Bolt of Cowl Side J/B LH
IG		
II	78	Set Bolt of Cowl Side J/B RH

○ : Splice Points

Code	See Page	Wire Harness with Splice Points	Code	See Page	Wire Harness with Splice Points
E1	76	Engine Room Main Wire	E2	76	Engine Room Main Wire



Service Hints

C16 Combination SW

11-Ground : Continuity with light control SW at HEAD position, dimmer SW at LOW position and fog light SW at ON position

: Parts Location

Code	See Page	Code	See Page	Code	See Page
C16	70	F2	68	J6	71
F1	68	J3	71		

: 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	24	Engine Room No.2 Wire and Engine Room J/B (Engine Compartment Left)
2A	28	Engine Room No.2 Wire and Cowl Side J/B LH (Left Kick Panel)
2Q	30	Instrument Panel Integration Wire and Cowl Side J/B LH (Left Kick Panel)
3E	40	Dash Wire and Cowl Side J/B RH (Right Kick Panel)

: Connector Joining Wire Harness and Wire Harness

Code	See Page	Joining Wire Harness and Wire Harness (Connector Location)
IH2	80	Instrument Panel Integration Wire and Column Wire (Near the Ignition SW)
II3	80	Dash Wire and Column Wire (Near the Ignition SW)

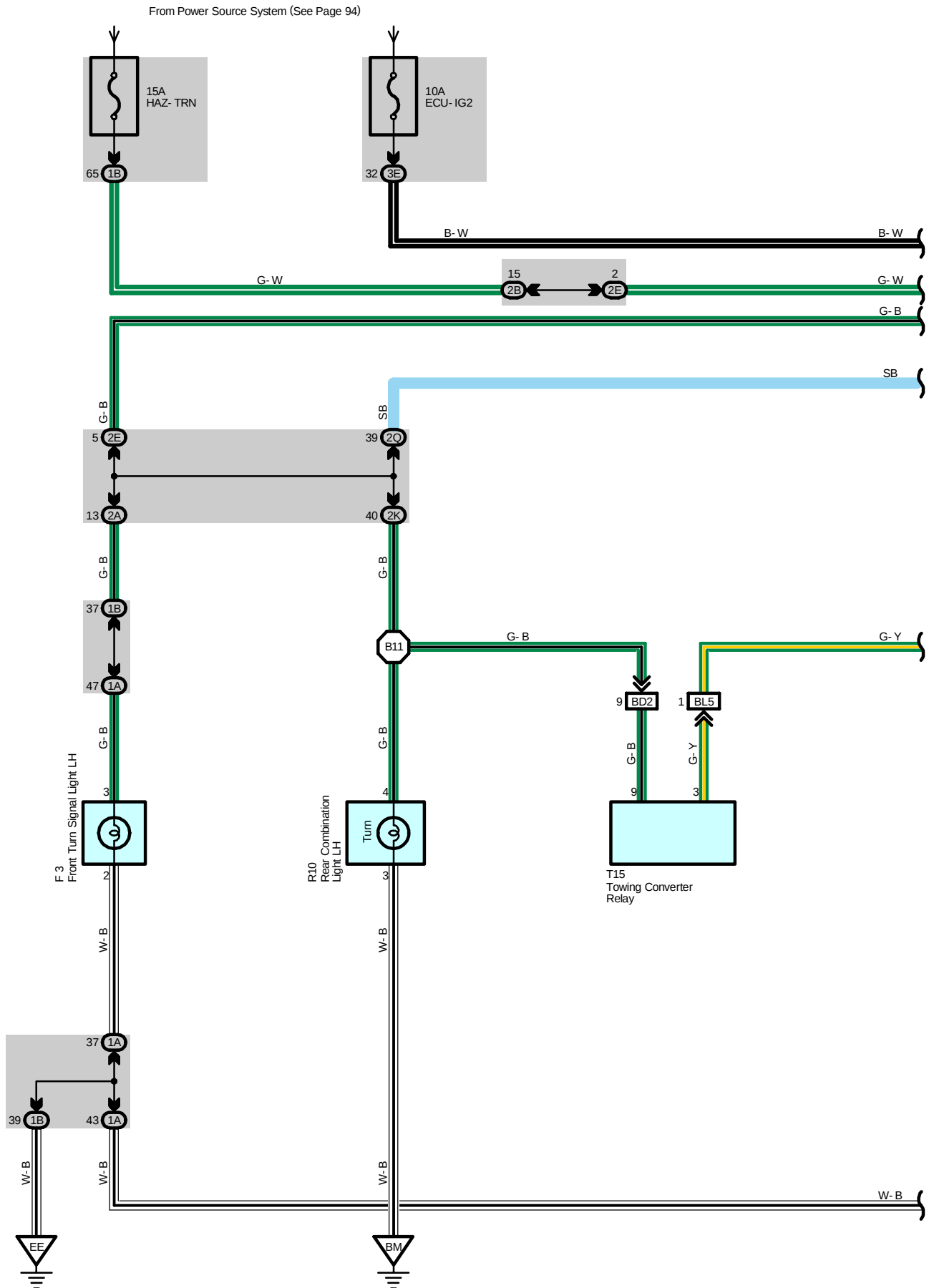
: Ground Points

Code	See Page	Ground Points Location
EA	76	Front Right Side of Fender Apron
II	78	Set Bolt of Cowl Side J/B RH

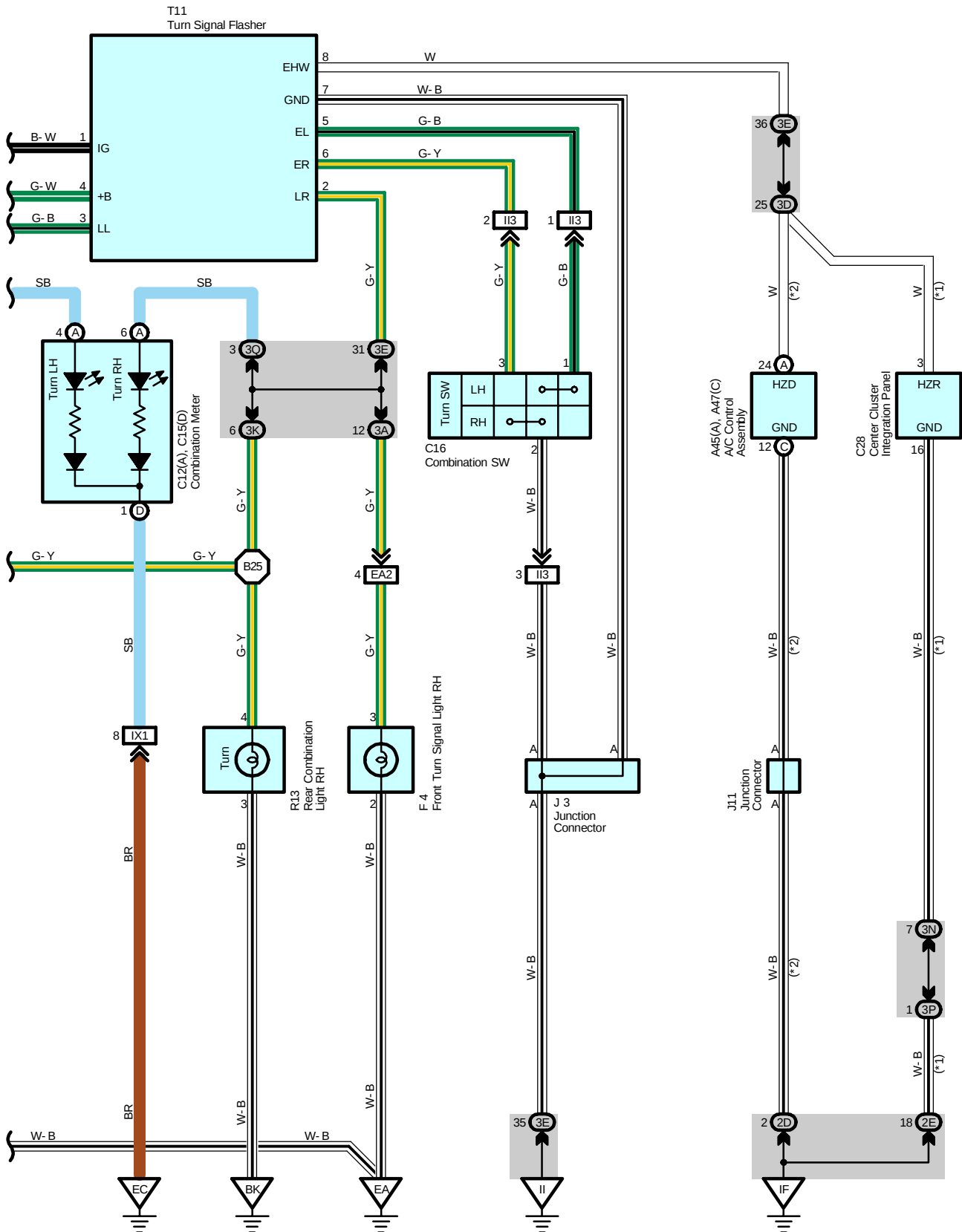
: Splice Points

Code	See Page	Wire Harness with Splice Points	Code	See Page	Wire Harness with Splice Points
E15	76	Engine Room Main Wire			

Turn Signal and Hazard Warning Light



* 1 : w/ Navigation System
 * 2 : w/o Navigation System



Turn Signal and Hazard Warning Light

Service Hints

T11 Turn Signal Flasher

- 4-Ground : Always approx. 12 volts
- 1-Ground : Approx. 12 volts with ignition SW at ON or ST position
- 7-Ground : Always continuity

○ : Parts Location

Code	See Page	Code	See Page	Code	See Page
A45	A 70	C28	70	R10	73
A47	C 70	F3	68	R13	73
C12	A 70	F4	68	T11	71
C15	D 70	J3	71	T15	73
C16	70	J11	71		

○ : 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	24	Engine Room No.2 Wire and Engine Room J/B (Engine Compartment Left)
2A	28	Engine Room No.2 Wire and Cowl Side J/B LH (Left Kick Panel)
2B		
2D		
2E	28	Dash Wire and Cowl Side J/B LH (Left Kick Panel)
2K	28	Floor No.1 Wire and Cowl Side J/B LH (Left Kick Panel)
2Q	30	Instrument Panel Integration Wire and Cowl Side J/B LH (Left Kick Panel)
3A	40	Engine Room No.2 Wire and Cowl Side J/B RH (Right Kick Panel)
3D	40	Dash Wire and Cowl Side J/B RH (Right Kick Panel)
3E		
3K	40	Floor No.2 Wire and Cowl Side J/B RH (Right Kick Panel)
3N	43	Dash Wire and Cowl Side J/B RH (Right Kick Panel)
3P		
3Q	42	Instrument Panel Integration Wire and Cowl Side J/B RH (Right Kick Panel)

□ : Connector Joining Wire Harness and Wire Harness

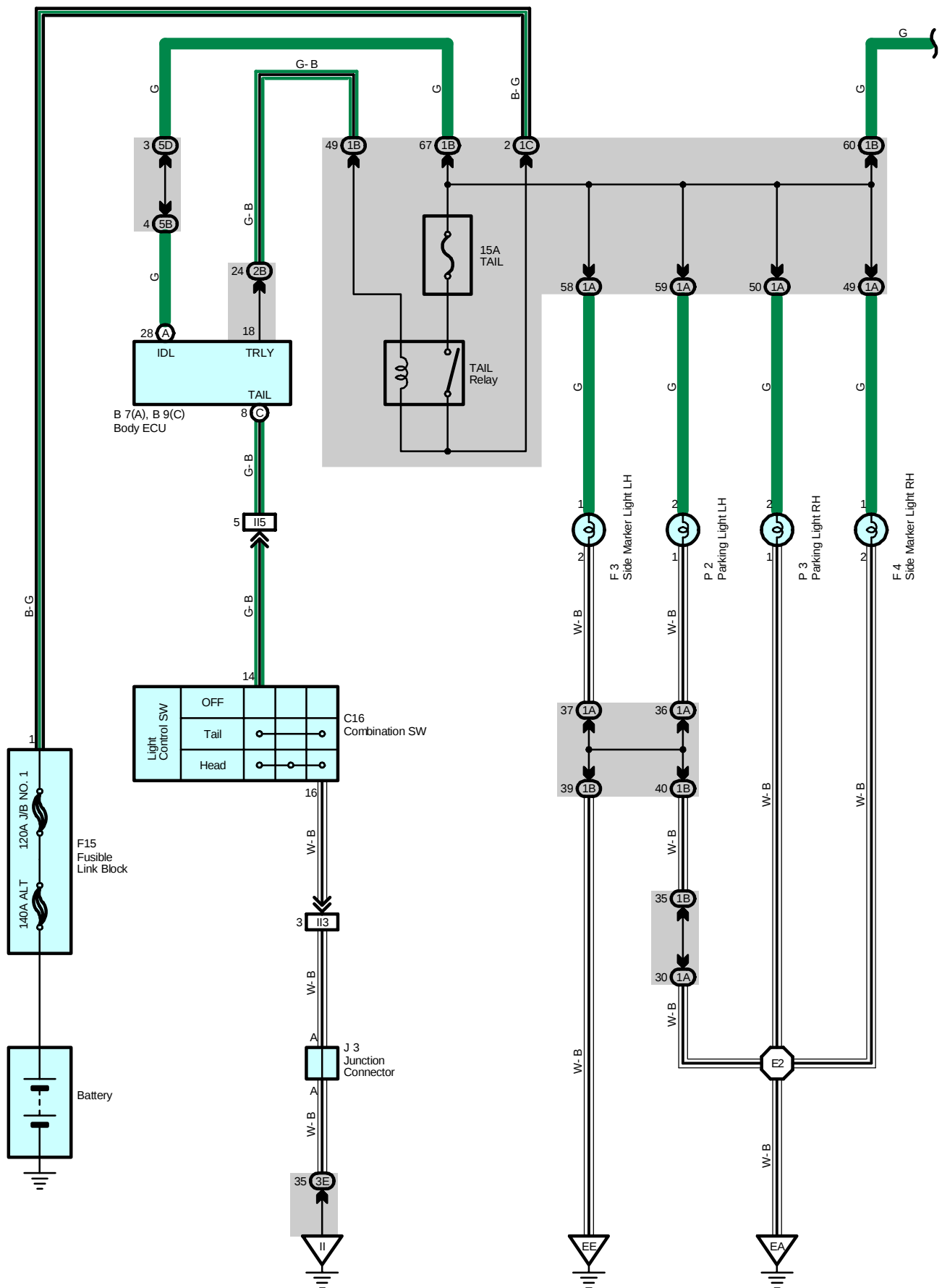
Code	See Page	Joining Wire Harness and Wire Harness (Connector Location)
EA2	76	Engine Room Main Wire and Engine Room No.2 Wire (Engine Compartment Right)
II3	80	Dash Wire and Column Wire (Near the Ignition SW)
IX1	82	Instrument Panel Integration Wire and Engine Wire (Behind the Glove Box)
BD2	86	Floor No.3 Wire and Floor No.1 Wire (Left Rear Side Quarter Panel)
BL5	88	Floor No.2 Wire and Floor No.3 Wire (Right Side of Rear Floor Crossmember)

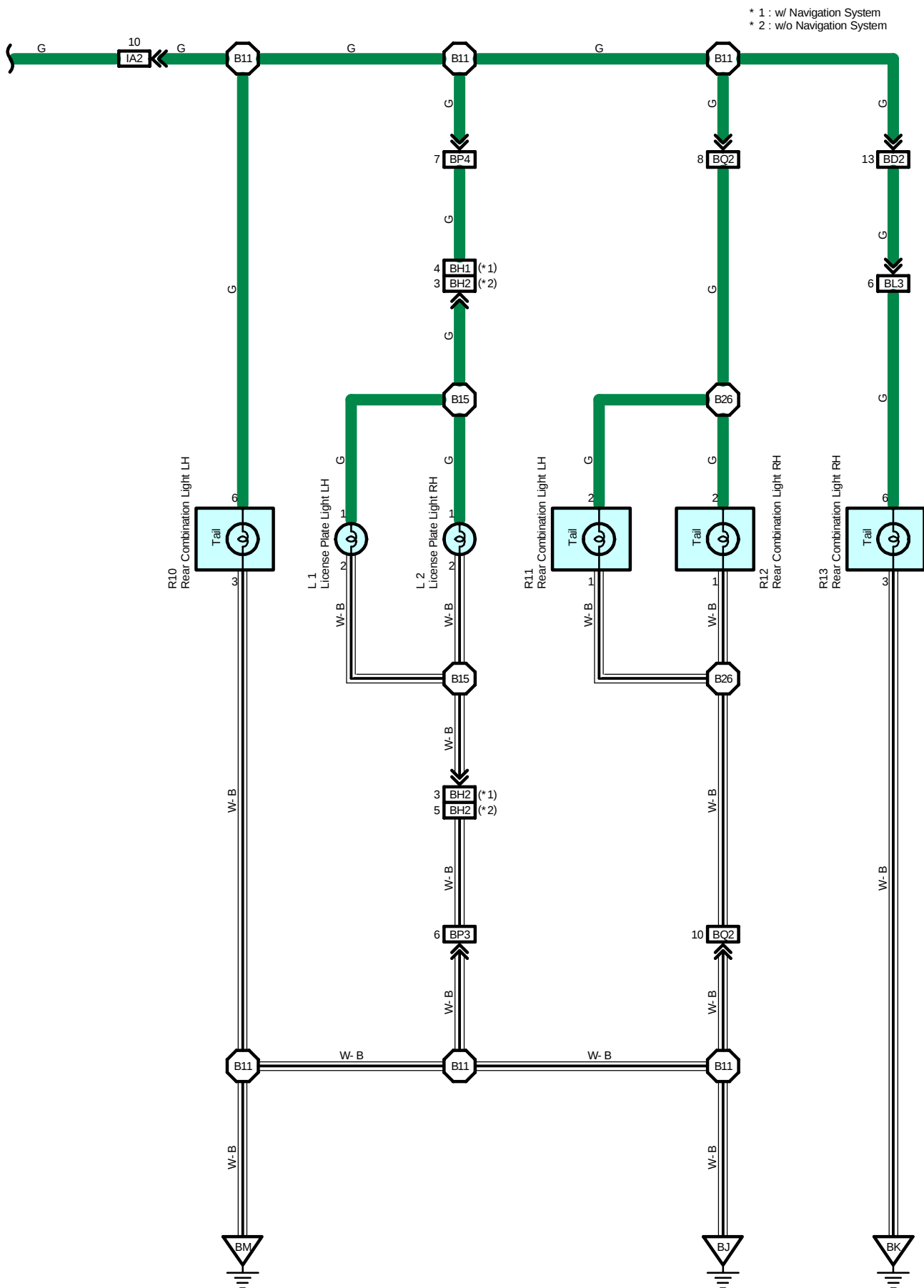
▽ : Ground Points

Code	See Page	Ground Points Location
EA	76	Front Right Side of Fender Apron
EC	76	Rear Bank of Right Cylinder Head
EE	76	Front Left Side of Fender Apron
IF	78	Set Bolt of Cowl Side J/B LH
II	78	Set Bolt of Cowl Side J/B RH
BK	86	Front Side Under the Front Passenger's Seat
BM	86	Left Rear Side Quarter Panel

○ : Splice Points

Code	See Page	Wire Harness with Splice Points	Code	See Page	Wire Harness with Splice Points
B11	88	Floor No.1 Wire	B25	88	Floor No.2 Wire





Service Hints

C16 Combination SW

14-16 : Closed with light control SW at TAIL or HEAD position

○ : Parts Location

Code	See Page	Code	See Page	Code	See Page
B7	A	70	F15	68	P3
B9	C	70	J3	71	R10
C16	70	L1	72	R11	73
F3	68	L2	72	R12	73
F4	68	P2	69	R13	73

○ : 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	24	Engine Room No.2 Wire and Engine Room J/B (Engine Compartment Left)
1C		
2B	28	Engine Room No.2 Wire and Cowl Side J/B LH (Left Kick Panel)
3E	40	Dash Wire and Cowl Side J/B RH (Right Kick Panel)
5B	56	Dash Wire and J/B No.5 (Behind the Combination Meter)
5D	56	Engine Room No.2 Wire and J/B No.5 (Behind the Combination Meter)

□ : Connector Joining Wire Harness and Wire Harness

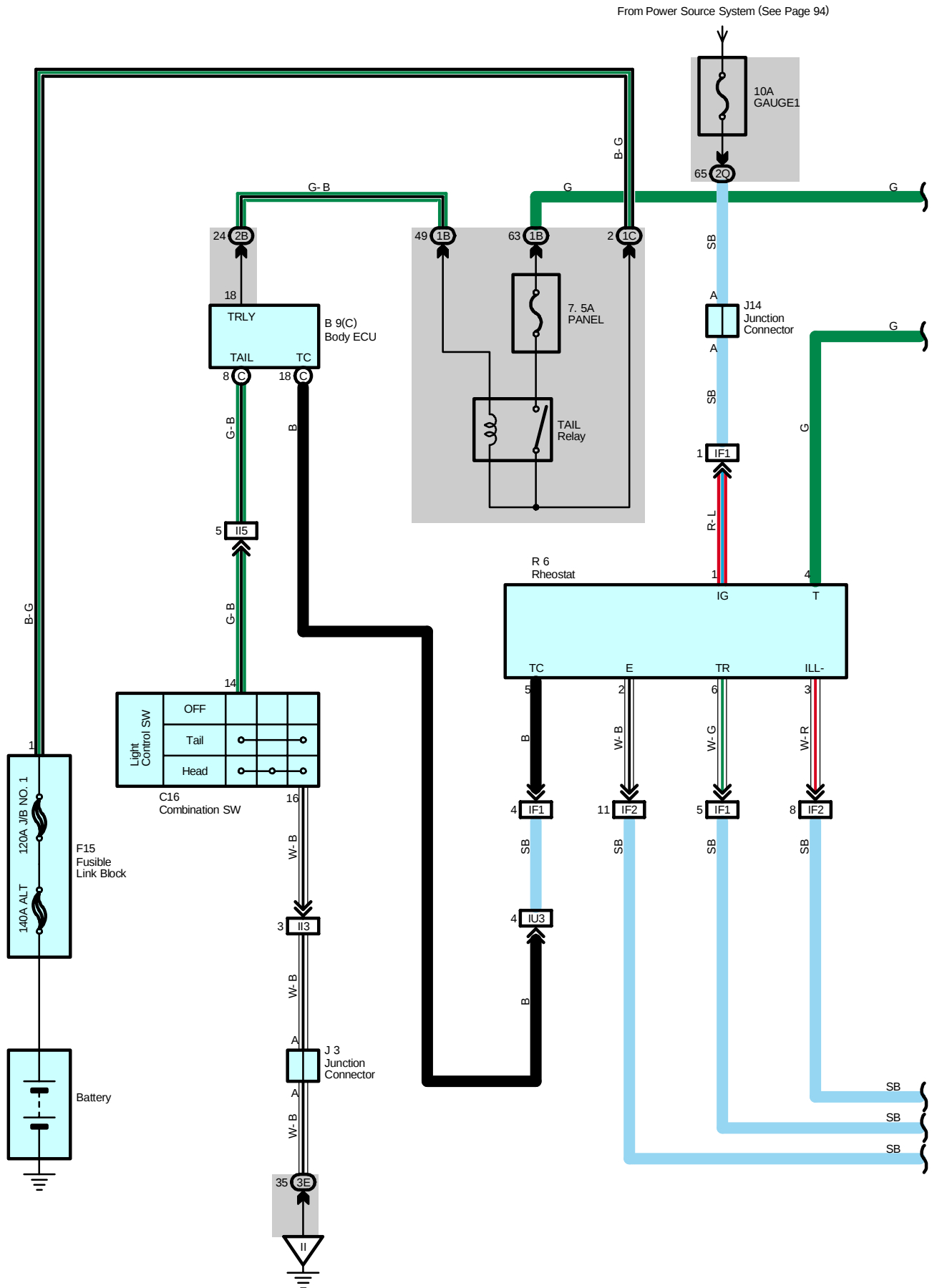
Code	See Page	Joining Wire Harness and Wire Harness (Connector Location)
IA2	78	Engine Room No.2 Wire and Floor No.1 Wire (Left Kick Panel)
II3	80	Dash Wire and Column Wire (Near the Ignition SW)
II5		
BD2	86	Floor No.3 Wire and Floor No.1 Wire (Left Rear Side Quarter Panel)
BH1	86	Pillar No.1 Wire and Back Door Upper Wire (Left Side of Back Door)
BH2		
BL3	88	Floor No.2 Wire and Floor No.3 Wire (Right Side of Rear Floor Crossmember)
BP3	88	Pillar No.1 Wire and Floor No.1 Wire (Left Rear Side Quarter Panel)
BP4		
BQ2	88	Back Door Lower Wire and Floor No.1 Wire (Left Rear Side Quarter Panel)

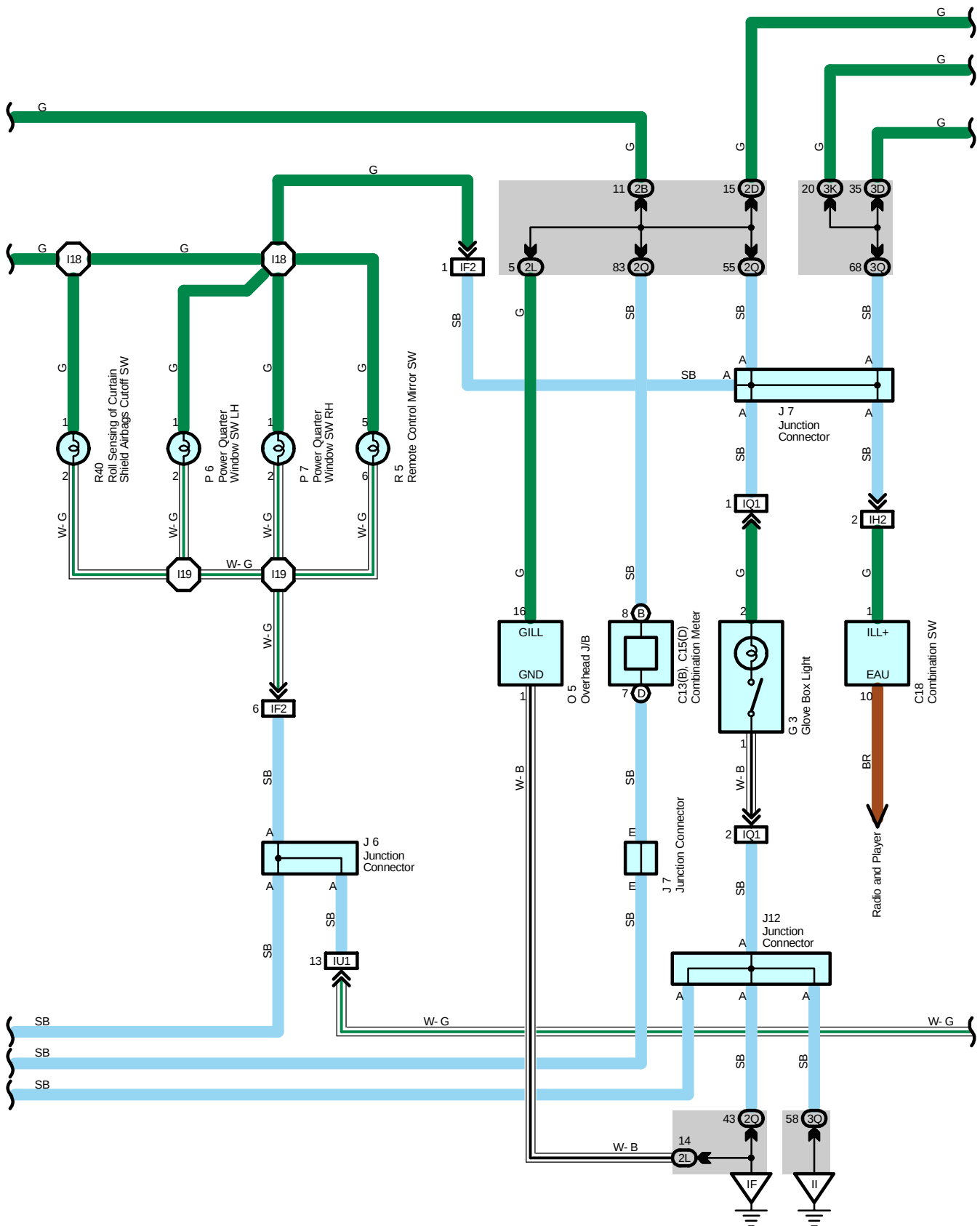
▽ : Ground Points

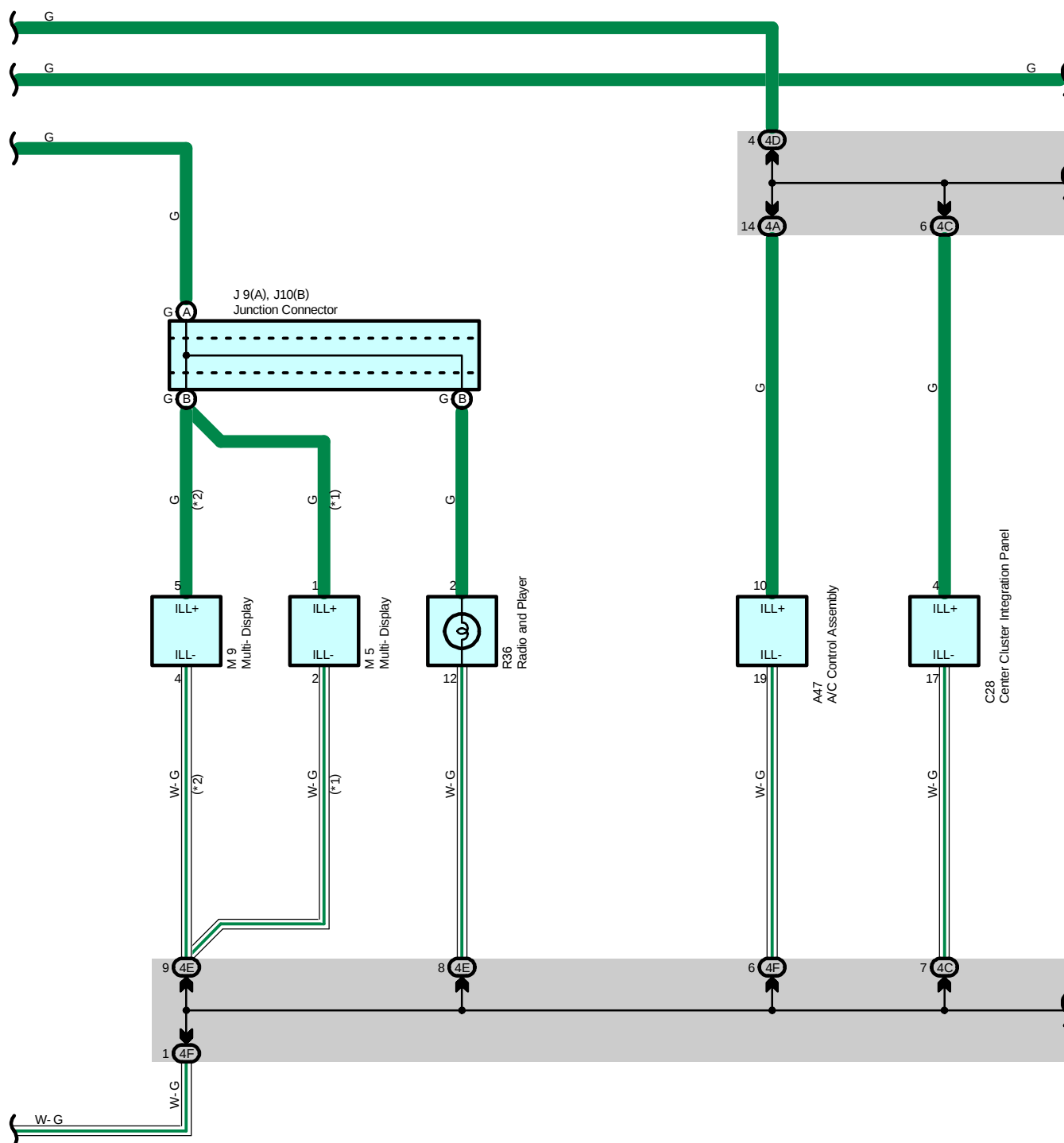
Code	See Page	Ground Points Location
EA	76	Front Right Side of Fender Apron
EE	76	Front Left Side of Fender Apron
II	78	Set Bolt of Cowl Side J/B RH
BJ	86	Under the Driver's Seat
BK	86	Front Side Under the Front Passenger's Seat
BM	86	Left Rear Side Quarter Panel

○ : Splice Points

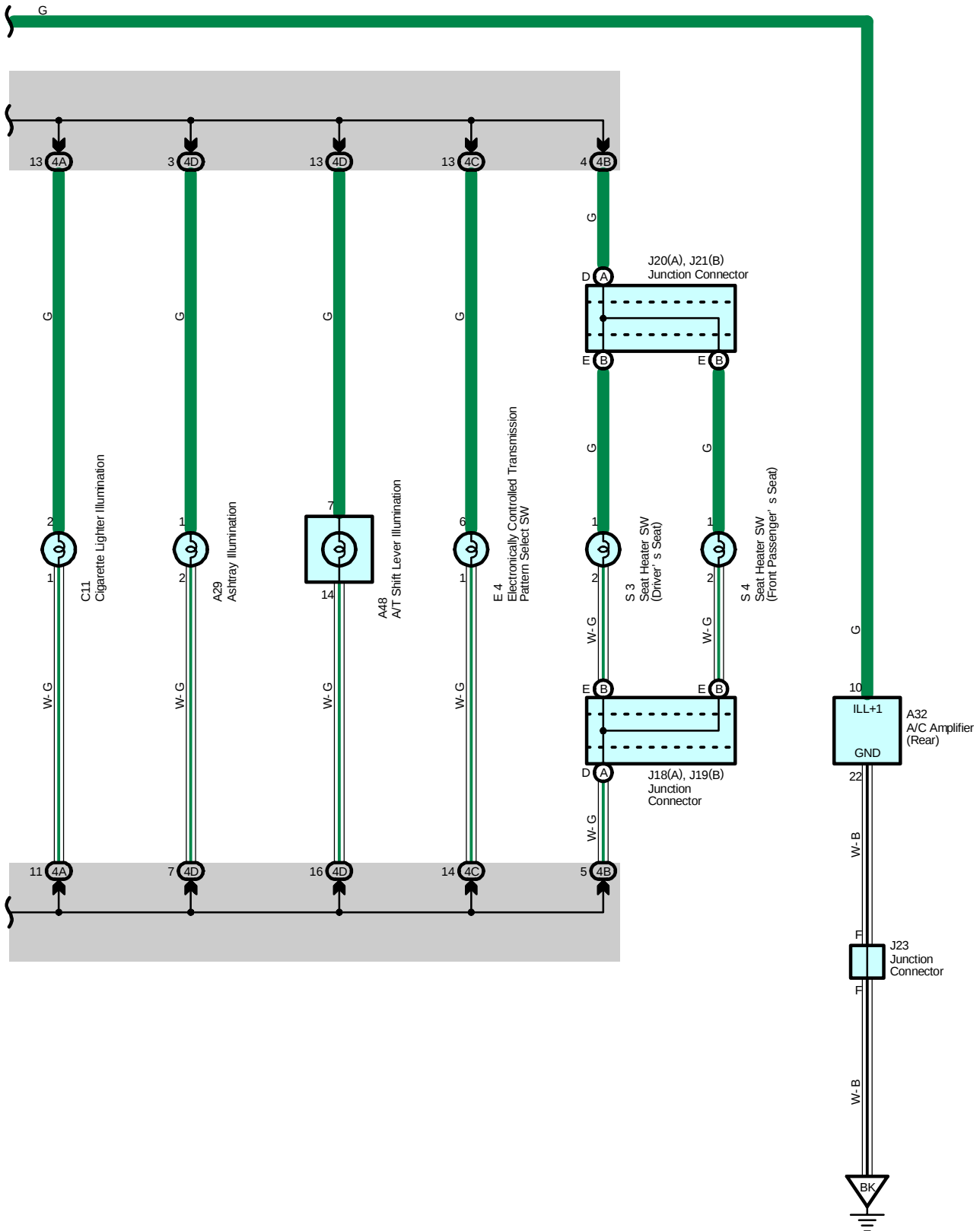
Code	See Page	Wire Harness with Splice Points	Code	See Page	Wire Harness with Splice Points
E2	76	Engine Room Main Wire	B15	88	Back Door Upper Wire
B11	88	Floor No.1 Wire	B26	88	Back Door Lower Wire







- * 1 : w/ Navigation System
- * 2 : w/o Navigation System



Illumination

Service Hints

C16 Combination SW

14-16 : Closed with light control SW at TAIL or HEAD position

○ : Parts Location

Code	See Page	Code	See Page	Code	See Page
A29	70	G3	70	M5	71
A32	72	J3	71	M9	71
A47	70	J6	71	O5	72
A48	70	J7	71	P6	71
B9	C	J9	A	P7	71
C11	70	J10	B	R5	71
C13	B	J12	71	R6	71
C15	D	J14	71	R36	71
C16	70	J18	A	R40	71
C18	70	J19	B	S3	71
C28	70	J20	A	S4	71
E4	70	J21	B		
F15	68	J23	72		

○ : Junction Block and Wire Harness Connector

Code	See Page	Junction Block and Wire Harness (Connector Location)
1B	24	Engine Room No.2 Wire and Engine Room J/B (Engine Compartment Left)
1C		
2B	28	Engine Room No.2 Wire and Cowl Side J/B LH (Left Kick Panel)
2D	28	Dash Wire and Cowl Side J/B LH (Left Kick Panel)
2L	28	Roof No.1 Wire and Cowl Side J/B LH (Left Kick Panel)
2Q	30	Instrument Panel Integration Wire and Cowl Side J/B LH (Left Kick Panel)
3D	40	Dash Wire and Cowl Side J/B RH (Right Kick Panel)
3E		
3K	40	Floor No.2 Wire and Cowl Side J/B RH (Right Kick Panel)
3Q	42	Instrument Panel Integration Wire and Cowl Side J/B RH (Right Kick Panel)
4A	52	Dash Wire and J/B No.4 (Instrument Panel Center)
4B		
4C		
4D		
4E		
4F		

□ : Connector Joining Wire Harness and Wire Harness

Code	See Page	Joining Wire Harness and Wire Harness (Connector Location)
IF1	78	Instrument Panel Integration Wire and Instrument Panel Wire (Left Side of Instrument Panel)
IF2		
II3	80	Dash Wire and Column Wire (Near the Ignition SW)
II5		
IQ1	80	Instrument Panel Integration Wire and Lamp Wire (Behind the Glove Box)
IU1	82	Instrument Panel Integration Wire and Dash Wire (Behind the Glove Box)
IU3		

▽ : Ground Points

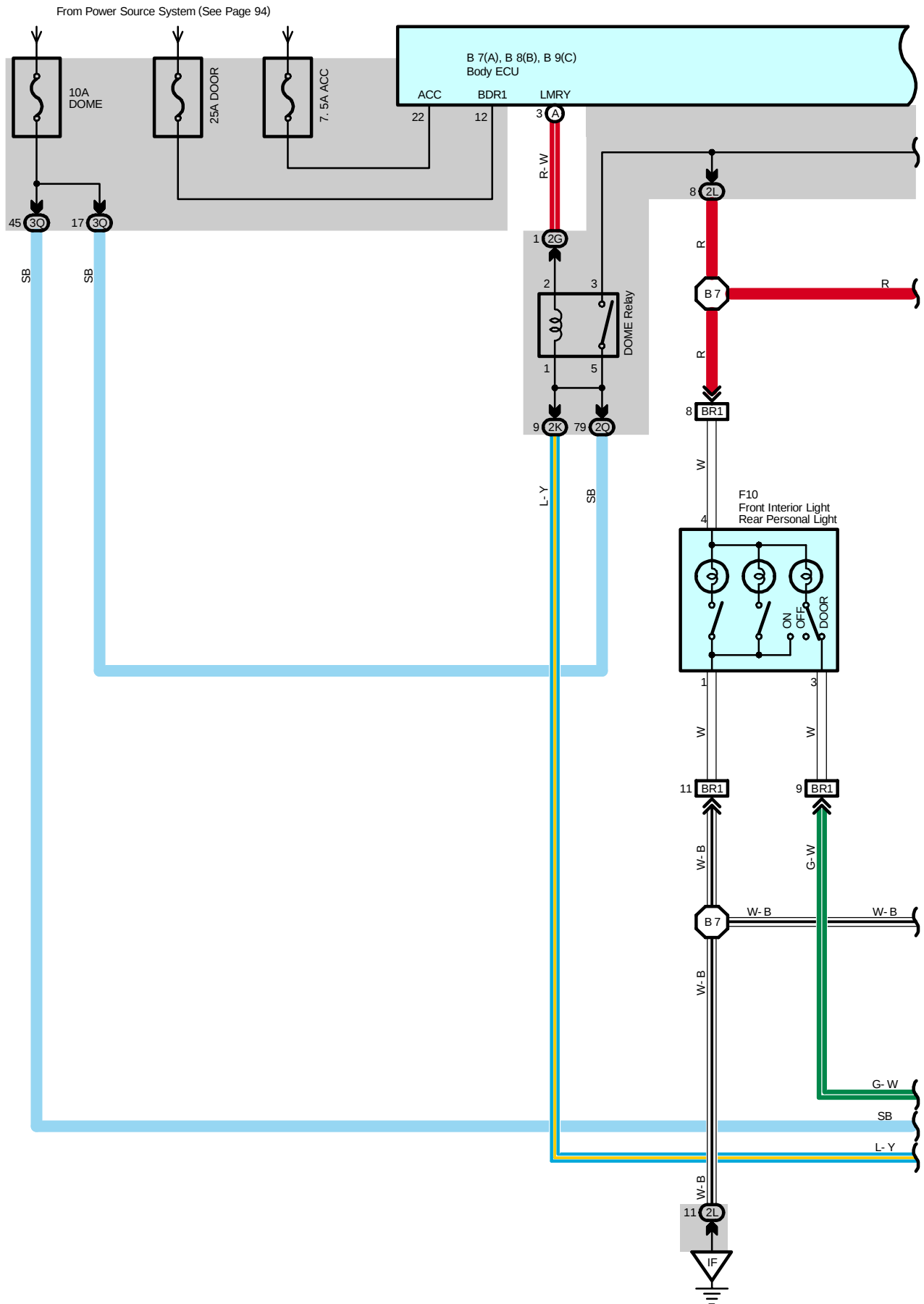
Code	See Page	Ground Points Location
IF	78	Set Bolt of Cowl Side J/B LH
II	78	Set Bolt of Cowl Side J/B RH
BK	86	Front Side Under the Front Passenger's Seat



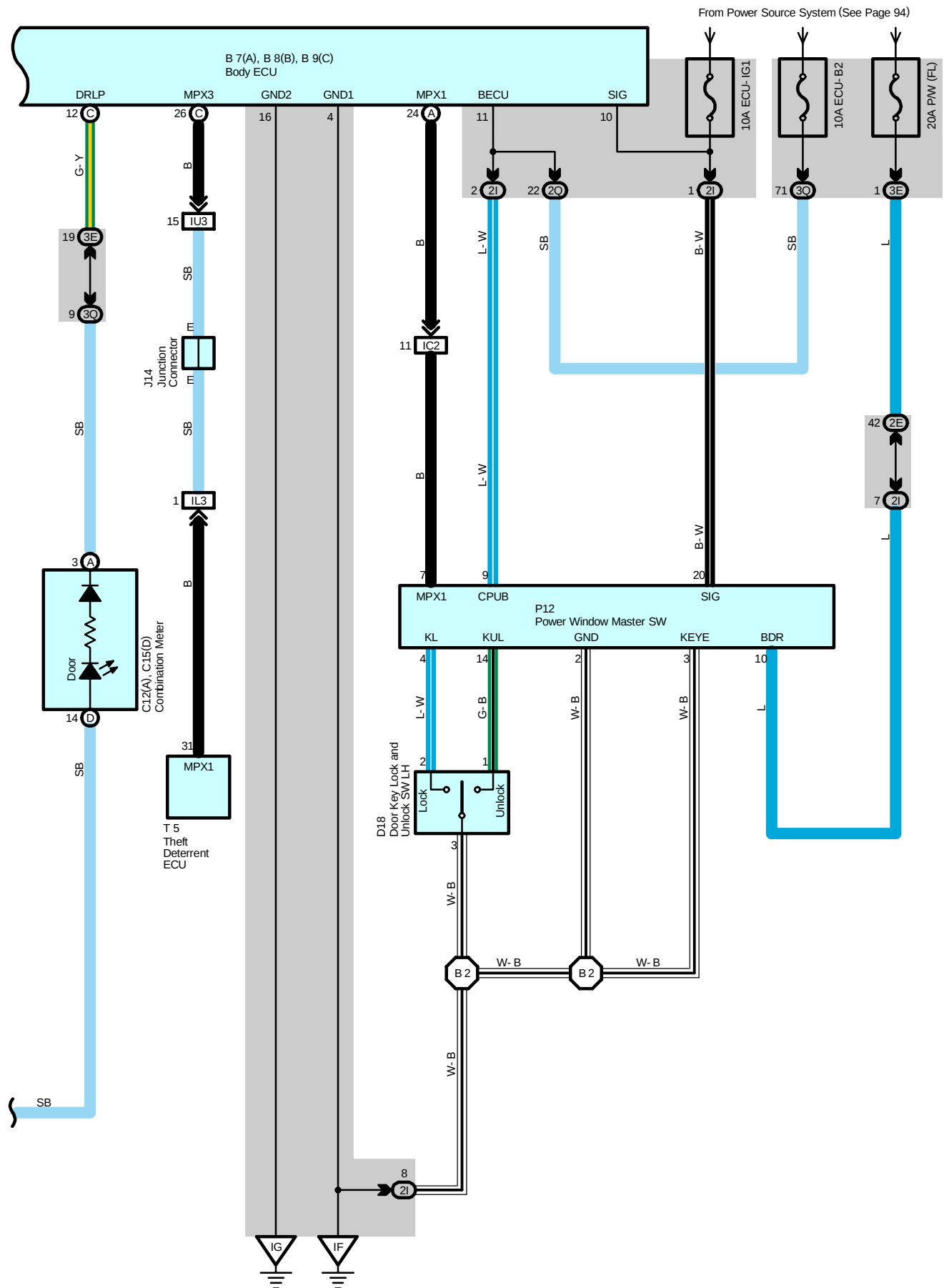
: Splice Points

Code	See Page	Wire Harness with Splice Points	Code	See Page	Wire Harness with Splice Points
I18	80	Instrument Panel Wire	I19	80	Instrument Panel Wire

Interior Light



Interior Light



System Outline

Normal Operation

- * When the front Door LH or RH is opened, the door courtesy light front LH, RH and open door warning light is turned on. When the front door LH and RH are closed, the door courtesy light front LH, RH is turned off.
- * When the rear door LH, RH or the back door is opened, door courtesy light rear LH, RH, rear interior light and the open door warning light is turned on. When the rear door LH, RH and back door are closed, the door courtesy light rear LH, RH is turned off.
- * When all the doors are closed, the open door warning light is turned off.

Turn Off Function

When the ignition SW turned off and there is no change in the door courtesy SW for approx. 30 minute, the DOME relay is turned off. The DOME relay is turned on again when any of the following conditions are met.

- * Ignition SW is turned from OFF position to ACC or ON position
- * Change to any door courtesy SW
- * Driver or front passenger door is unlocked by the key or transmitter

Immediate Turn Off Function at Door Lock

When all the doors are closed, and the driver or front passenger door is locked by the key or transmitter, the DOME relay is turned off, after approx. 80 seconds. However, when the illuminated entry system is operating, the DOME relay is turned off after the operation is completed. the DOME relay is turned on again when any of the following conditions are met.

- * Ignition SW is turned from OFF position to ACC or ON position
- * Change to any door courtesy SW
- * Driver or front passenger door is unlocked by the key or transmitter

Illuminated Entry System

- * When any door is opened, each light is turned on.
- * The light remains on for approx. 15 seconds after all doors are closed, and fades out.
- * With the ignition SW is at ACC or ON position, and any door open, when all the doors are closed, each light fades out immediately.
- * When the ignition SW is turned to ACC or ON position during timer lighting, each light fades out immediately.
- * When the doors are locked during timer lighting, each light fades out immediately.
- * The lights include, the front interior light, ignition key cylinder light, and front door courtesy light LH, RH.

○ : Parts Location

Code	See Page	Code	See Page	Code	See Page
B2	72	D13	72	F11	72
B3	72	D14	72	J14	71
B7	A	D15	72	J22	72
B8	B	D16	72	P12	73
B9	C	D17	72	R27	73
C12	A	D18	72	T5	71
C15	D	D19	72	T10	71
D10	72	D20	72	V6	73
D11	72	D27	72	V7	73
D12	72	F10	72		

○ : Junction Block and Wire Harness Connector

Code	See Page	Junction Block and Wire Harness (Connector Location)
2E	28	Dash Wire and Cowl Side J/B LH (Left Kick Panel)
2G		
2I	28	Front Door LH Wire and Cowl Side J/B LH (Left Kick Panel)
2K	28	Floor No.1 Wire and Cowl Side J/B LH (Left Kick Panel)
2L	28	Roof No.1 Wire and Cowl Side J/B LH (Left Kick Panel)
2Q	30	Instrument Panel Integration Wire and Cowl Side J/B LH (Left Kick Panel)
3E	40	Dash Wire and Cowl Side J/B RH (Right Kick Panel)
3I	40	Front Door RH Wire and Cowl Side J/B RH (Right Kick Panel)
3J		
3K	40	Floor No.2 Wire and Cowl Side J/B RH (Right Kick Panel)
3Q	42	Instrument Panel Integration Wire and Cowl Side J/B RH (Right Kick Panel)

Interior Light

: Connector Joining Wire Harness and Wire Harness

Code	See Page	Joining Wire Harness and Wire Harness (Connector Location)
IC2	78	Front Door LH Wire and Dash Wire (Left Kick Panel)
ID4	78	Dash Wire and Floor No.1 Wire (Left Kick Panel)
IL3	80	Instrument Panel Integration Wire and Computer Wire (Instrument Panel Center)
IU3	82	Instrument Panel Integration Wire and Dash Wire (Behind the Glove Box)
IV3	82	Dash Wire and Floor No.2 Wire (Right Kick Panel)
IV4		
IY2	82	Front Door RH Wire and Dash Wire (Right Kick Panel)
BA4	86	Rear Door LH Wire and Floor No.1 Wire (Left Side of Center Pillar)
BC4	86	Rear Door RH Wire and Floor No.2 Wire (Right Side of Center Pillar)
BH1	86	Pillar No.1 Wire and Back Door Upper Wire (Left Side of Back Door)
BH2		
BP3	88	Pillar No.1 Wire and Floor No.1 Wire (Left Rear Side Quarter Panel)
BP4		
BQ2	88	Back Door Lower Wire and Floor No.1 Wire (Left Rear Side Quarter Panel)
BR1	88	Roof No.3 Wire and Roof No.1 Wire (Front Side of Roof)

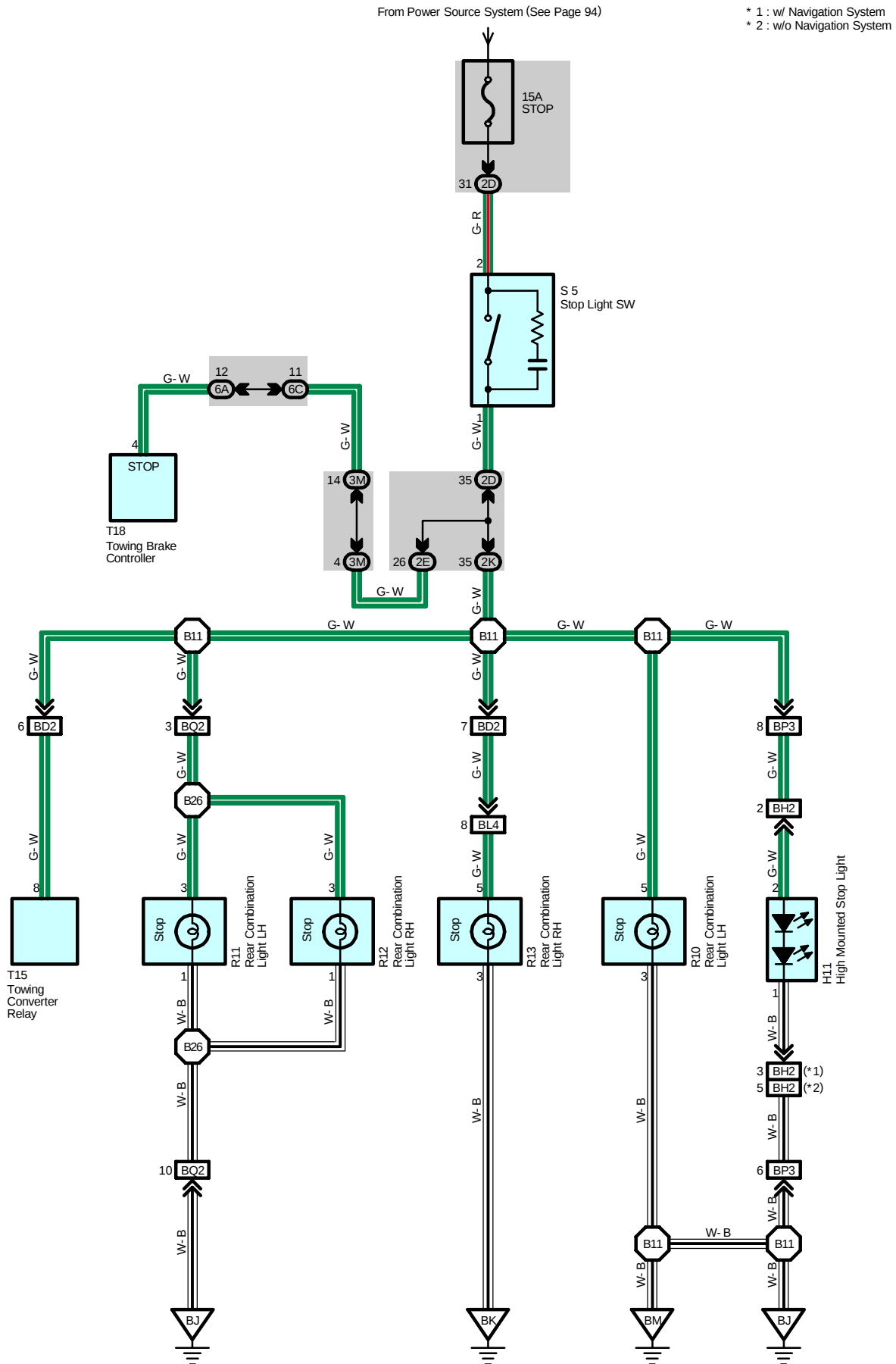
: Ground Points

Code	See Page	Ground Points Location
IF	78	Set Bolt of Cowl Side J/B LH
IG		
II	78	Set Bolt of Cowl Side J/B RH
BJ	86	Under the Driver's Seat

: Splice Points

Code	See Page	Wire Harness with Splice Points	Code	See Page	Wire Harness with Splice Points
B2	88	Front Door LH Wire	B8	88	Front Door RH Wire
B7	88	Roof No.1 Wire	B11	88	Floor No.1 Wire

Stop Light



Service Hints

S5 Stop Light SW

2-1 : Closed with brake pedal depressed

: Parts Location

Code	See Page	Code	See Page	Code	See Page
H11	72	R12	73	T15	73
R10	73	R13	73	T18	71
R11	73	S5	71		

: Junction Block and Wire Harness Connector

Code	See Page	Junction Block and Wire Harness (Connector Location)
2D	28	Dash Wire and Cowl Side J/B LH (Left Kick Panel)
2E		
2K	28	Floor No.1 Wire and Cowl Side J/B LH (Left Kick Panel)
3M	43	Dash Wire and Cowl Side J/B RH (Right Kick Panel)
6A	60	Dash Wire and J/B No.6 (Behind the Grove Box)
6C		

: Connector Joining Wire Harness and Wire Harness

Code	See Page	Joining Wire Harness and Wire Harness (Connector Location)
BD2	86	Floor No.3 Wire and Floor No.1 Wire (Left Rear Side Quarter Panel)
BH2	86	Pillar No.1 Wire and Back Door Upper Wire (Left Side of Back Door)
BL4	88	Floor No.2 Wire and Floor No.3 Wire (Right Side of Rear Floor Crossmember)
BP3	88	Pillar No.1 Wire and Floor No.1 Wire (Left Rear Side Quarter Panel)
BQ2	88	Back Door Lower Wire and Floor No.1 Wire (Left Rear Side Quarter Panel)

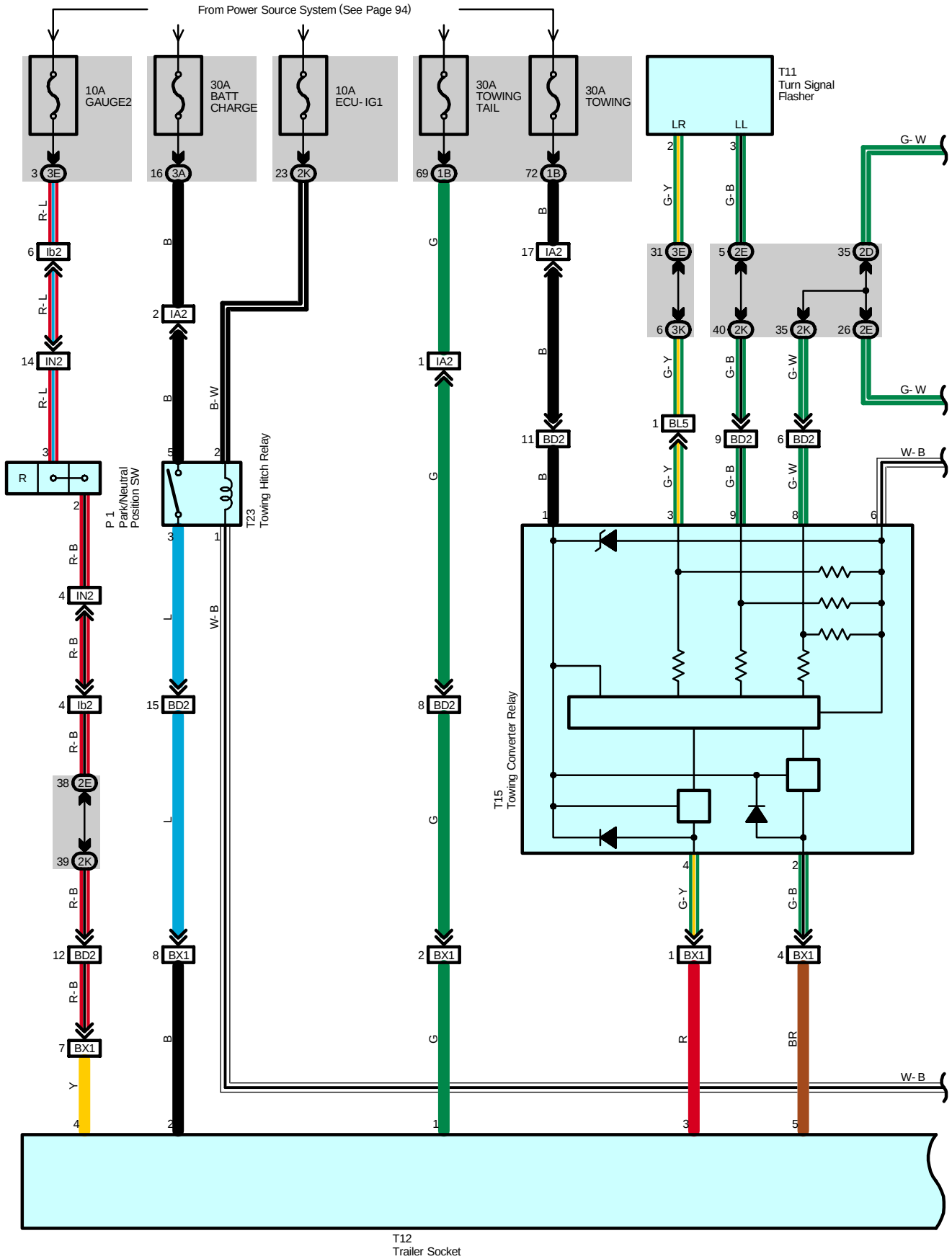
: Ground Points

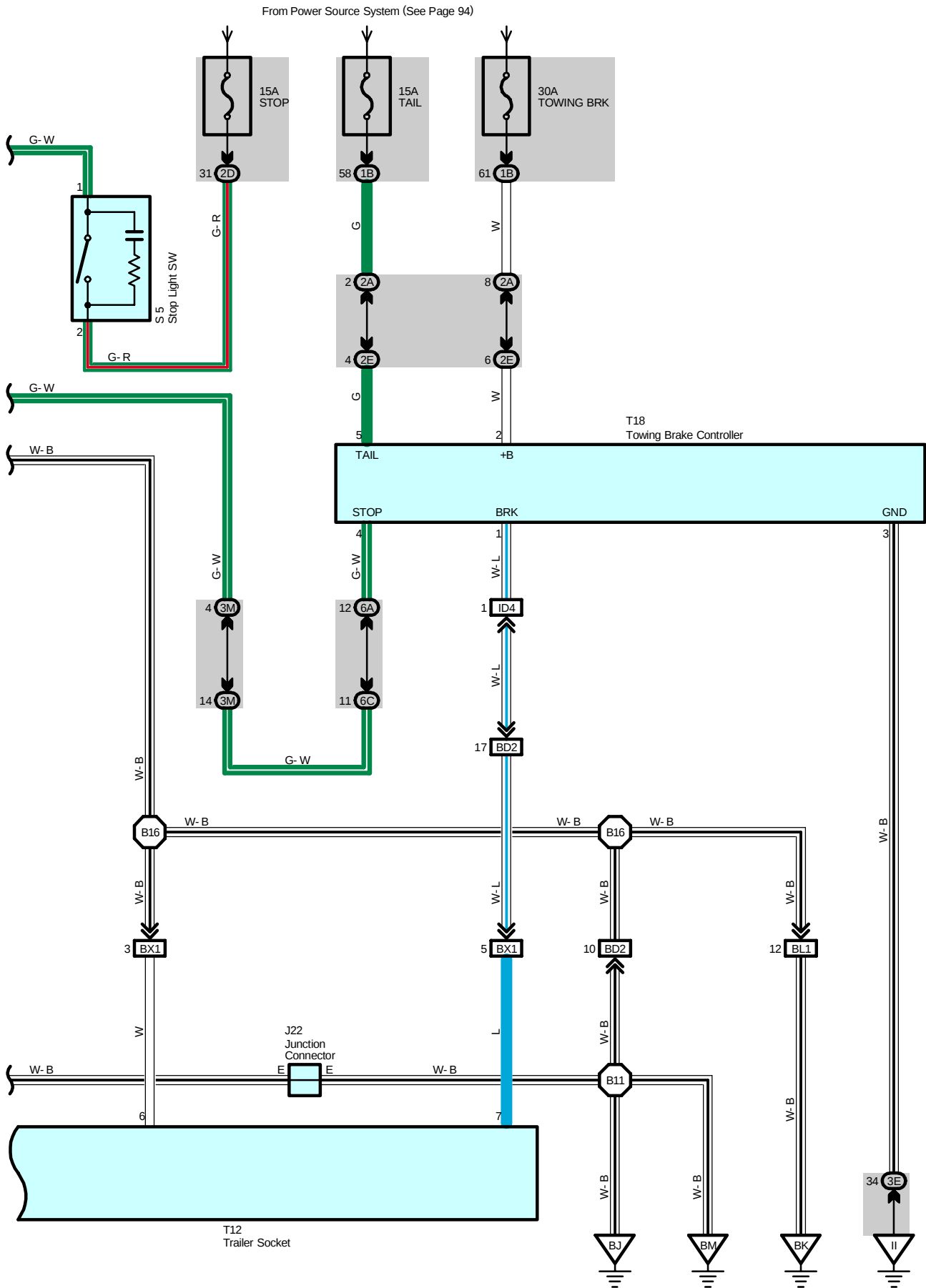
Code	See Page	Ground Points Location
BJ	86	Under the Driver's Seat
BK	86	Front Side Under the Front Passenger's Seat
BM	86	Left Rear Side Quarter Panel

: Splice Points

Code	See Page	Wire Harness with Splice Points	Code	See Page	Wire Harness with Splice Points
B11	88	Floor No.1 Wire	B26	88	Back Door Lower Wire

Trailer Towing





Trailer Towing

Service Hints

T15 Towing Converter Relay

1-Ground : Always approx. 12 volts

6-Ground : Always continuity

S5 Stop Light SW

2-1 : Closed with brake pedal depressed

○ : Parts Location

Code	See Page	Code	See Page	Code	See Page
J22	72	T11	71	T18	71
P1	69	T12	73	T23	73
S5	71	T15	73		

○ : Junction Block and Wire Harness Connector

Code	See Page	Junction Block and Wire Harness (Connector Location)
1B	24	Engine Room No.2 Wire and Engine Room J/B (Engine Compartment Left)
2A	28	Engine Room No.2 Wire and Cowl Side J/B LH (Left Kick Panel)
2D	28	Dash Wire and Cowl Side J/B LH (Left Kick Panel)
2E		
2K	28	Floor No.1 Wire and Cowl Side J/B LH (Left Kick Panel)
3A	40	Engine Room No.2 Wire and Cowl Side J/B RH (Right Kick Panel)
3E	40	Dash Wire and Cowl Side J/B RH (Right Kick Panel)
3K	40	Floor No.2 Wire and Cowl Side J/B RH (Right Kick Panel)
3M	43	Dash Wire and Cowl Side J/B RH (Right Kick Panel)
6A	60	Dash Wire and J/B No.6 (Behind the Grove Box)
6C		

□ : Connector Joining Wire Harness and Wire Harness

Code	See Page	Joining Wire Harness and Wire Harness (Connector Location)
IA2	78	Engine Room No.2 Wire and Floor No.1 Wire (Left Kick Panel)
ID4	78	Dash Wire and Floor No.1 Wire (Left Kick Panel)
IN2	80	Engine Wire and Dash Wire (Behind the Glove Box)
Ib2	84	Dash Wire and Dash Wire (Behind the Combination Meter)
BD2	86	Floor No.3 Wire and Floor No.1 Wire (Left Rear Side Quarter Panel)
BL1	88	Floor No.2 Wire and Floor No.3 Wire (Right Side of Rear Floor Crossmember)
BL5		
BX1	88	Frame No.4 Wire and Floor No.3 Wire (Left Side of Rear Floor Crossmember)

▽ : Ground Points

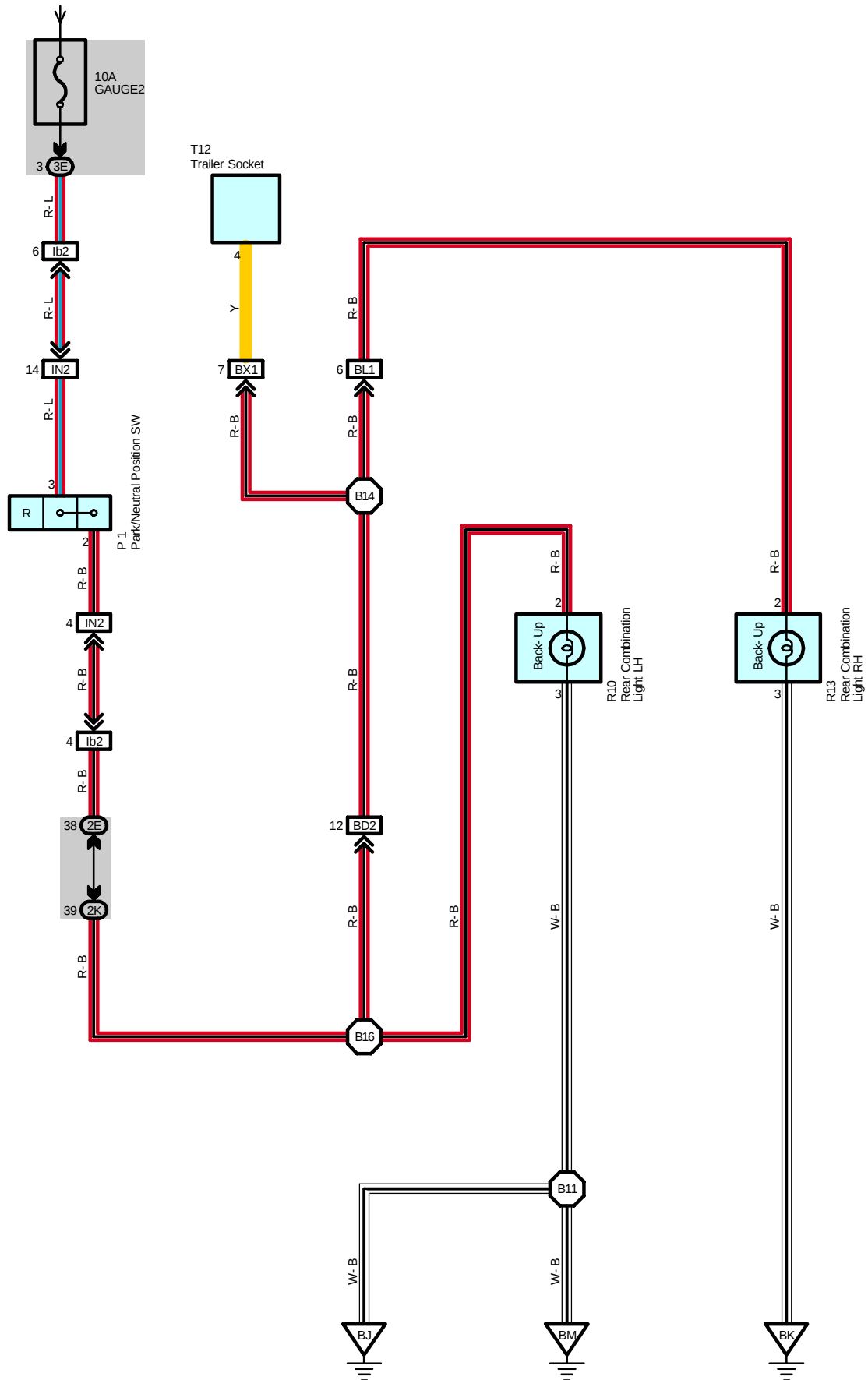
Code	See Page	Ground Points Location
II	78	Set Bolt of Cowl Side J/B RH
BJ	86	Under the Driver's Seat
BK	86	Front Side Under the Front Passenger's Seat
BM	86	Left Rear Side Quarter Panel

○ : Splice Points

Code	See Page	Wire Harness with Splice Points	Code	See Page	Wire Harness with Splice Points
B11	88	Floor No.1 Wire	B16	88	Floor No.3 Wire

Back-Up Light

From Power Source System (See Page 94)



Service Hints

P1 Park/Neutral Position SW

3-2 : Closed with shift lever at R position

: Parts Location

Code	See Page	Code	See Page	Code	See Page
P1	69	R13	73		
R10	73	T12	73		

: Junction Block and Wire Harness Connector

Code	See Page	Junction Block and Wire Harness (Connector Location)
2E	28	Dash Wire and Cowl Side J/B LH (Left Kick Panel)
2K	28	Floor No.1 Wire and Cowl Side J/B LH (Left Kick Panel)
3E	40	Dash Wire and Cowl Side J/B RH (Right Kick Panel)

: Connector Joining Wire Harness and Wire Harness

Code	See Page	Joining Wire Harness and Wire Harness (Connector Location)
IN2	80	Engine Wire and Dash Wire (Behind the Glove Box)
Ib2	84	Dash Wire and Dash Wire (Behind the Combination Meter)
BD2	86	Floor No.3 Wire and Floor No.1 Wire (Left Rear Side Quarter Panel)
BL1	88	Floor No.2 Wire and Floor No.3 Wire (Right Side of Rear Floor Crossmember)
BX1	88	Frame No.4 Wire and Floor No.3 Wire (Left Side of Rear Floor Crossmember)

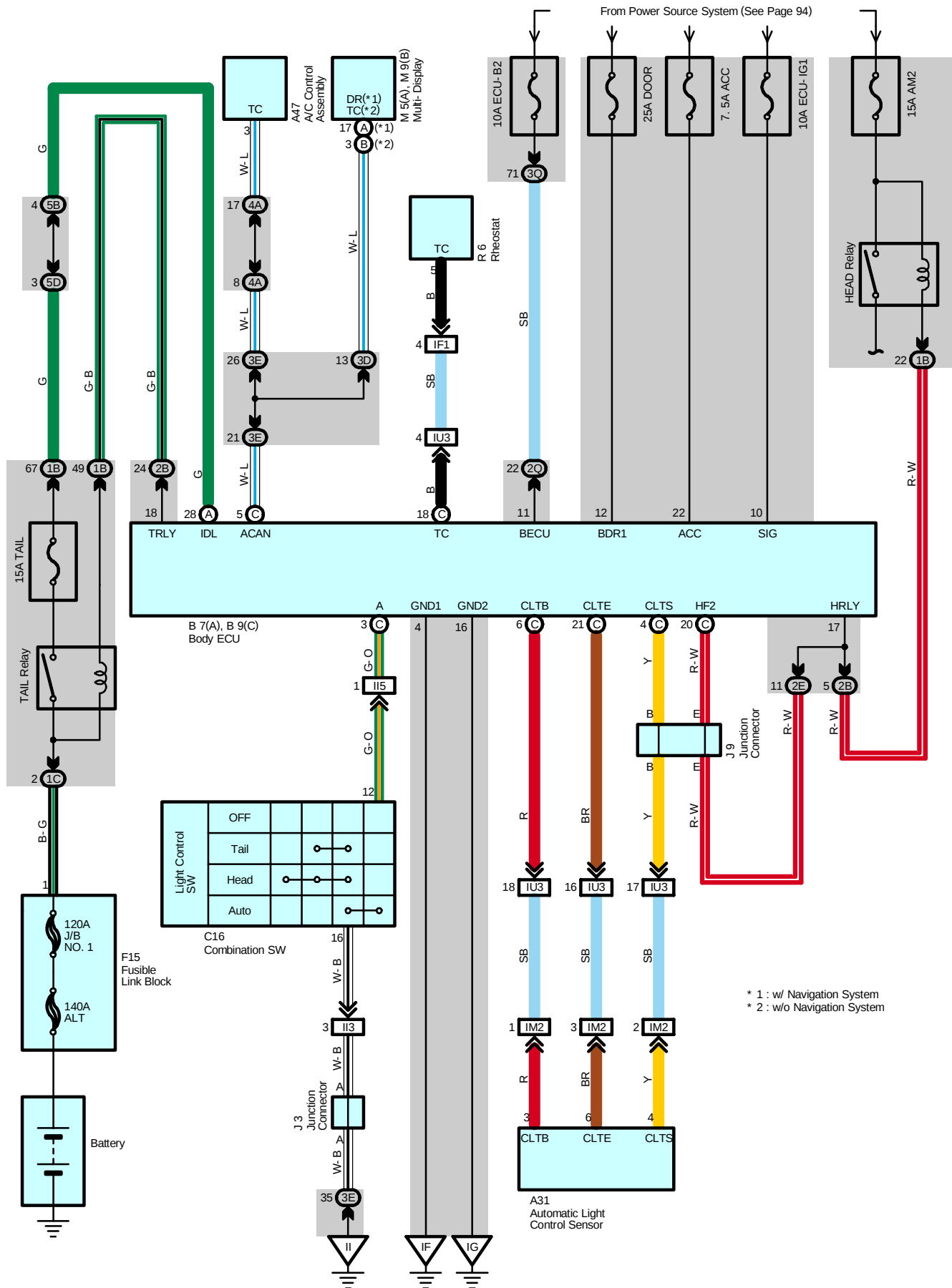
: Ground Points

Code	See Page	Ground Points Location
BJ	86	Under the Driver's Seat
BK	86	Front Side Under the Front Passenger's Seat
BM	86	Left Rear Side Quarter Panel

: Splice Points

Code	See Page	Wire Harness with Splice Points	Code	See Page	Wire Harness with Splice Points
B11	88	Floor No.1 Wire	B16	88	Floor No.3 Wire
B14	88	Floor No.2 Wire			

Automatic Light Control



System Outline

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 taillight and headlight on if the brightness is below the regular level and turns the taillight and headlight off when the surroundings become brighter than the regular level.

Service Hints

Body ECU

- 11, 12-Ground : Always approx. 12 volts
- 22-Ground : Approx. 12 volts with ignition SW at ACC or ON position
- 10-Ground : Approx. 12 volts with ignition SW at ON or ST position
- 4, 16-Ground : Always continuity

○ : Parts Location

Code	See Page	Code	See Page	Code	See Page
A31	70	C16	70	M5	A 71
A47	70	F15	68	M9	B 71
B7	A 70	J3	71	R6	71
B9	C 70	J9	71		

○ : Junction Block and Wire Harness Connector

Code	See Page	Junction Block and Wire Harness (Connector Location)
1B	24	Engine Room No.2 Wire and Engine Room J/B (Engine Compartment Left)
1C		
2B	28	Engine Room No.2 Wire and Cowl Side J/B LH (Left Kick Panel)
2E	28	Dash Wire and Cowl Side J/B LH (Left Kick Panel)
2Q	30	Instrument Panel Integration Wire and Cowl Side J/B LH (Left Kick Panel)
3D	40	Dash Wire and Cowl Side J/B RH (Right Kick Panel)
3E		
3Q	42	Instrument Panel Integration Wire and Cowl Side J/B RH (Right Kick Panel)
4A	52	Dash Wire and J/B No.4 (Instrument Panel Center)
5B	56	Dash Wire and J/B No.5 (Behind the Combination Meter)
5D	56	Engine Room No.2 Wire and J/B No.5 (Behind the Combination Meter)

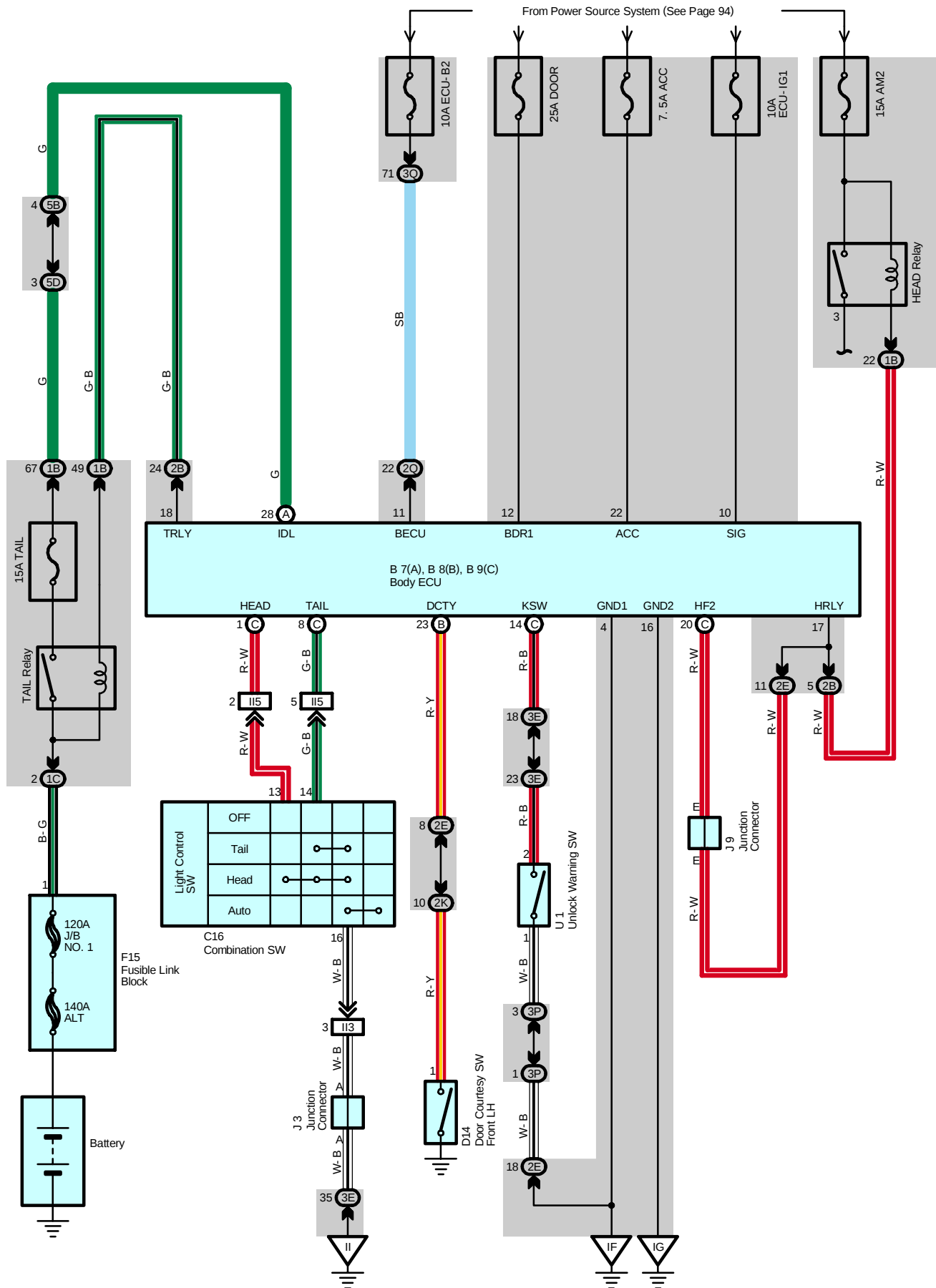
□ : Connector Joining Wire Harness and Wire Harness

Code	See Page	Joining Wire Harness and Wire Harness (Connector Location)
IF1	78	Instrument Panel Integration Wire and Instrument Panel Wire (Left Side of Instrument Panel)
II3	80	Dash Wire and Column Wire (Near the Ignition SW)
II5		
IM2	80	Instrument Panel Integration Wire and Instrument Panel No.3 Wire (Right Side of Instrument Panel)
IU3	82	Instrument Panel Integration Wire and Dash Wire (Behind the Glove Box)

▽ : Ground Points

Code	See Page	Ground Points Location
IF	78	Set Bolt of Cowl Side J/B LH
IG		
II	78	Set Bolt of Cowl Side J/B RH

Light Auto Turn Off System



System Outline

The light auto turn off system automatically turns the taillight or headlight off according to the door open or close on the driver's side, and prevent failing to turn off the lights.

If the ignition switch is turned to OFF from ON with the headlight or taillight is on, the signal is input in the TERMINAL SIG of the body ECU. If the driver's side door is opened at that time, the signal from the door courtesy SW front LH is sent to the TERMINAL DCTY of the body ECU. The signal turns the headlight or taillight off.

Delayed turn off control

In the case of that some doors are opened, the headlight or taillight is left on for about 30 seconds after the all the doors was closed. However, if the doors are locked using the wireless door lock, the headlight or taillight is immediately turn off.

Service Hints

Body ECU

11, 12-Ground : Always approx. 12 volts

10-Ground : Approx. 12 volts with ignition SW at ON or ST position

4, 16-Ground : Always continuity

○ : Parts Location

Code		See Page	Code		See Page	Code		See Page
B7	A	70	C16	70		J3		71
B8	B	70	D14	72		J9		71
B9	C	70	F15	68		U1		71

○ : Junction Block and Wire Harness Connector

Code	See Page	Junction Block and Wire Harness (Connector Location)
1B	24	Engine Room No.2 Wire and Engine Room J/B (Engine Compartment Left)
1C		
2B	28	Engine Room No.2 Wire and Cowl Side J/B LH (Left Kick Panel)
2E	28	Dash Wire and Cowl Side J/B LH (Left Kick Panel)
2K	28	Floor No.1 Wire and Cowl Side J/B LH (Left Kick Panel)
2Q	30	Instrument Panel Integration Wire and Cowl Side J/B LH (Left Kick Panel)
3E	40	Dash Wire and Cowl Side J/B RH (Right Kick Panel)
3P	43	
3Q	42	Instrument Panel Integration Wire and Cowl Side J/B RH (Right Kick Panel)
5B	56	Dash Wire and J/B No.5 (Behind the Combination Meter)
5D	56	Engine Room No.2 Wire and J/B No.5 (Behind the Combination Meter)

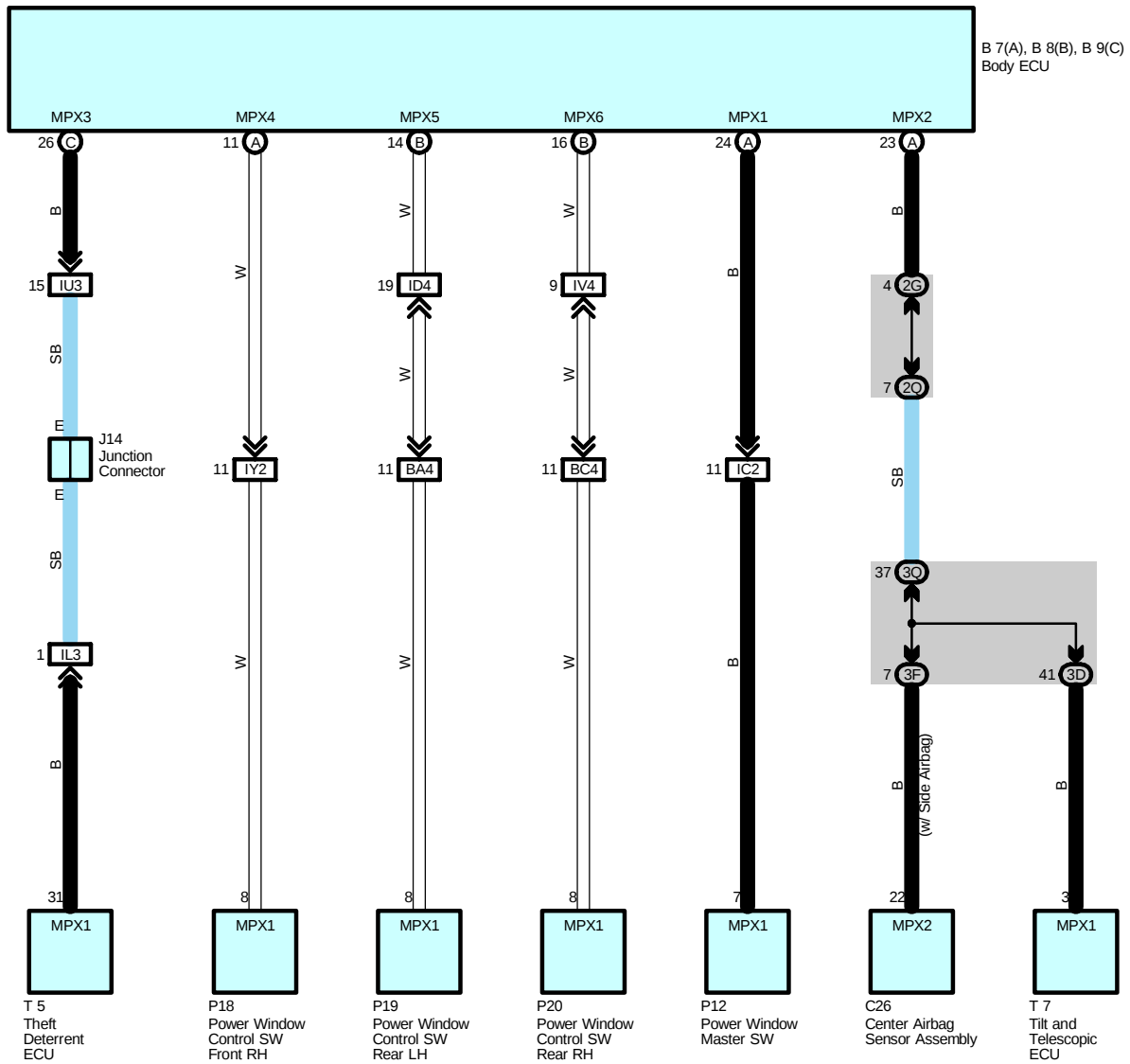
□ : Connector Joining Wire Harness and Wire Harness

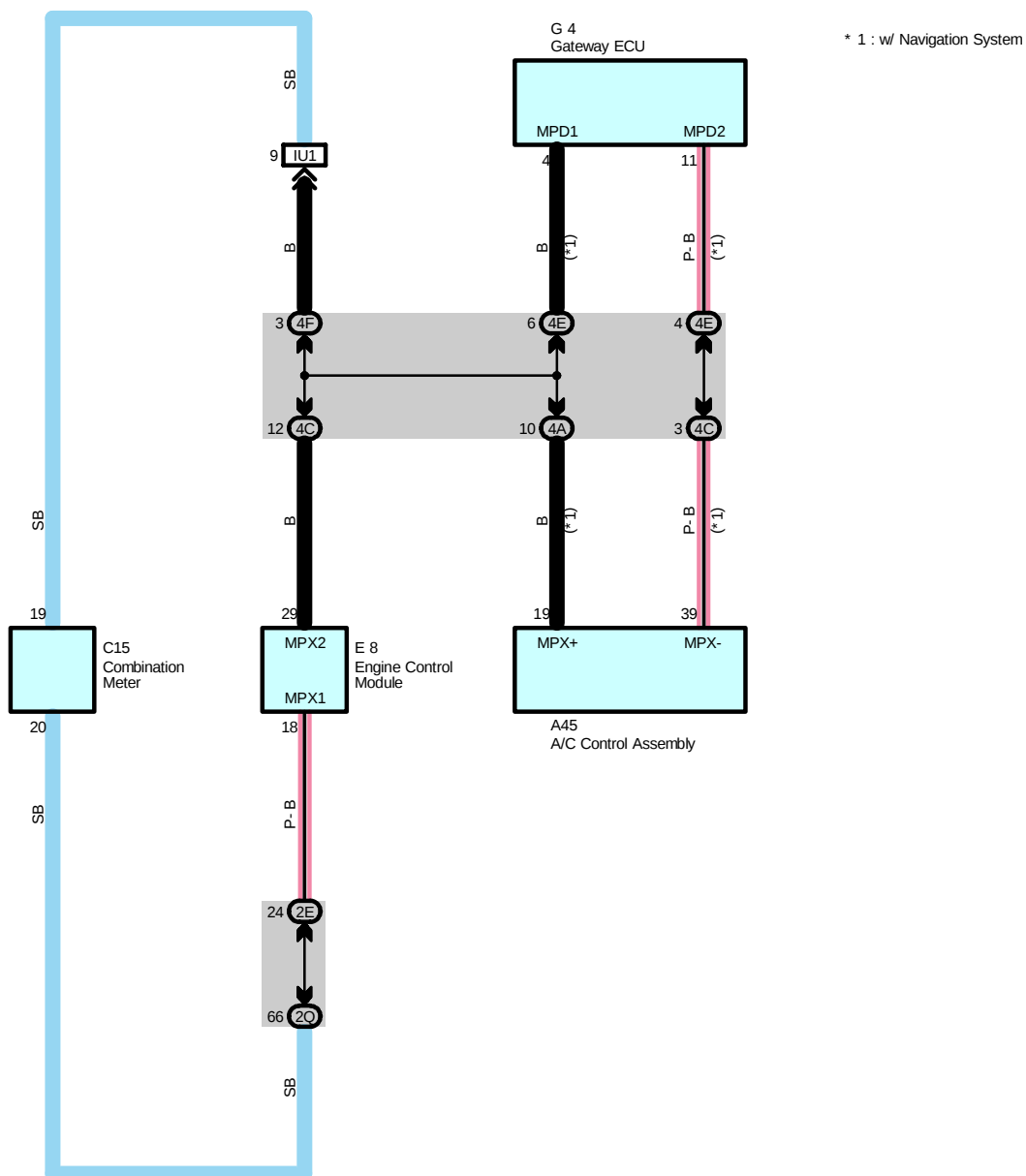
Code	See Page	Joining Wire Harness and Wire Harness (Connector Location)
II3	80	Dash Wire and Column Wire (Near the Ignition SW)
II5		

▽ : Ground Points

Code	See Page	Ground Points Location
IF	78	Set Bolt of Cowl Side J/B LH
IG		
II	78	Set Bolt of Cowl Side J/B RH

Multiplex Communication System - Communication Bus



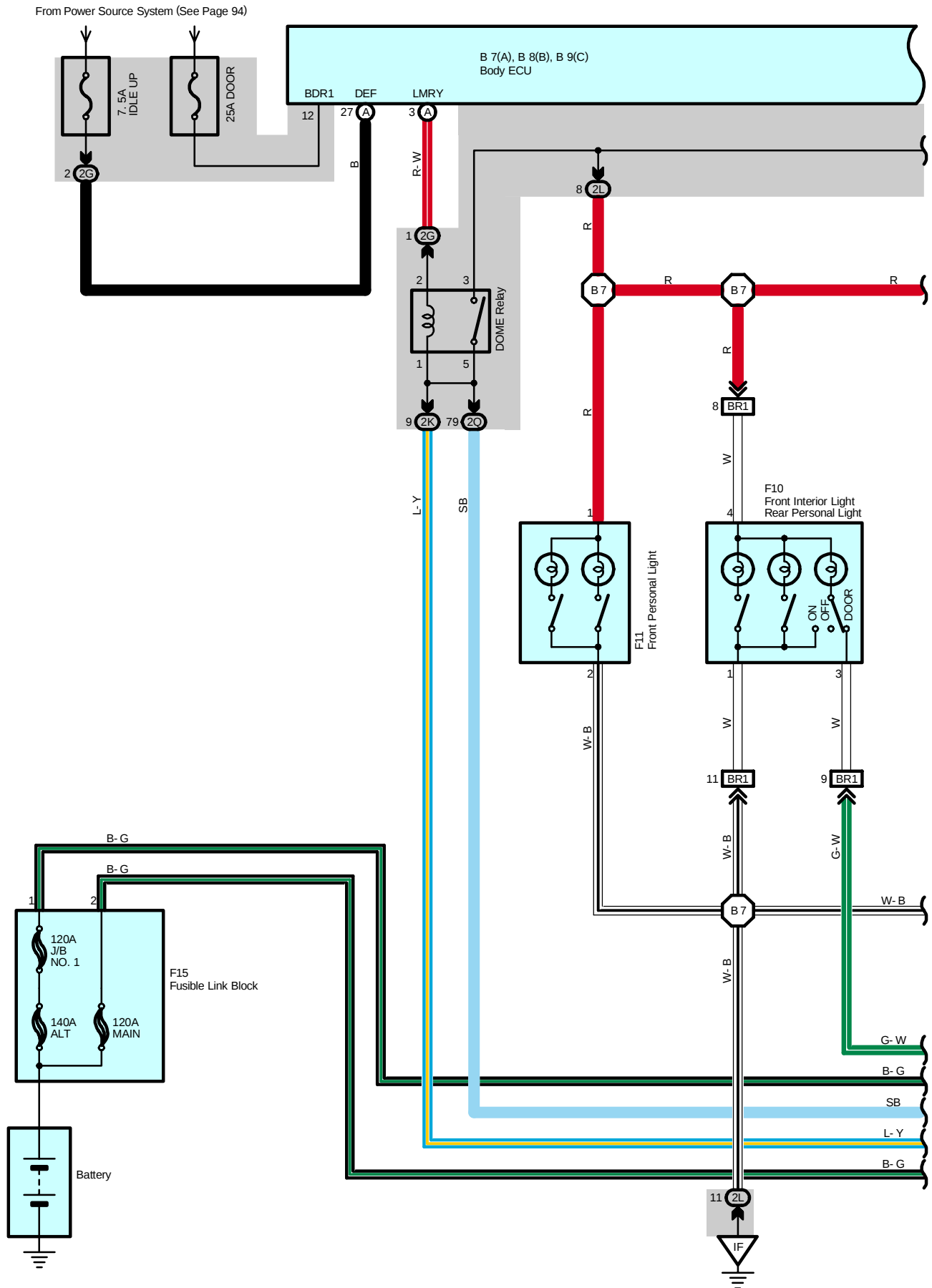


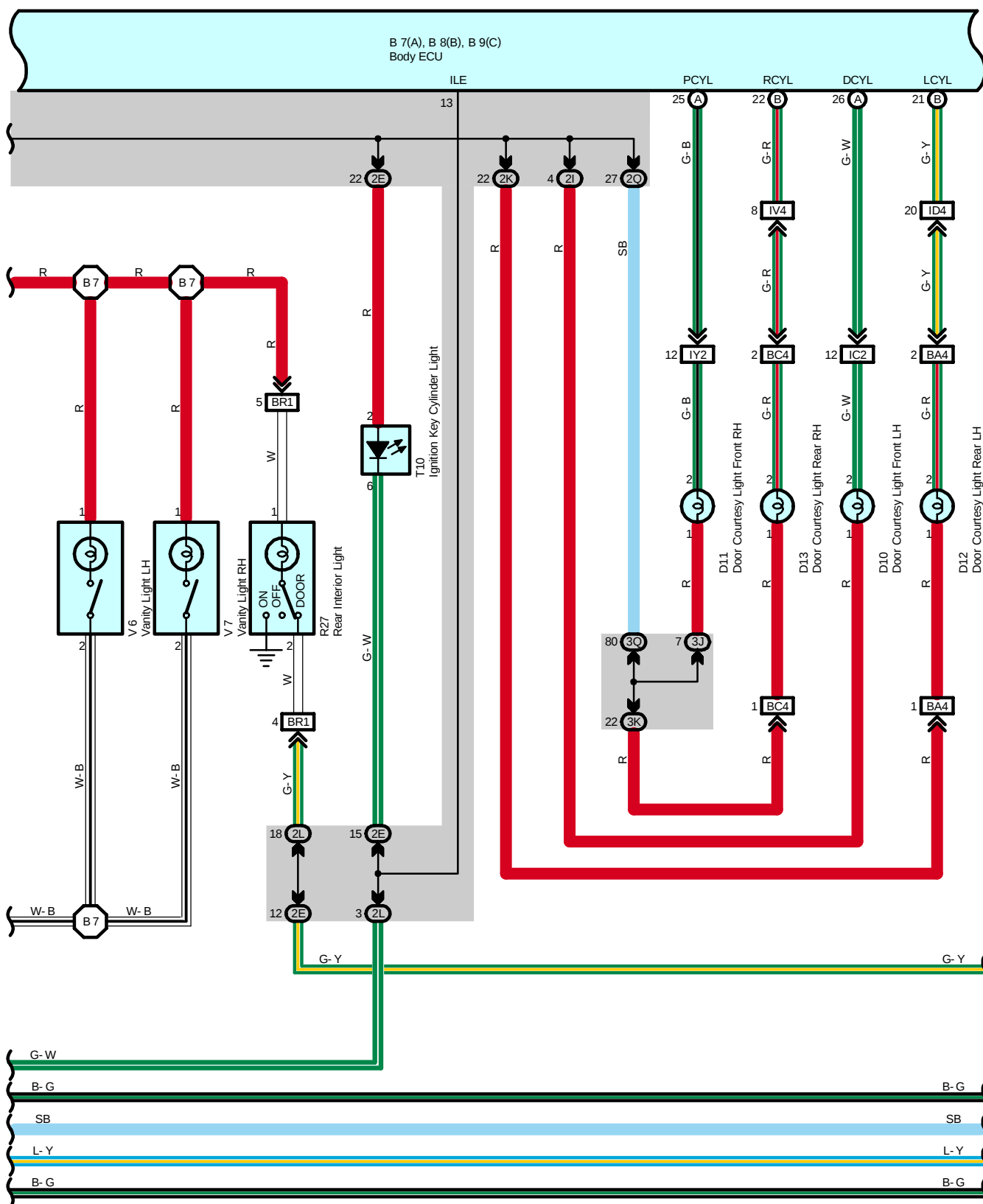
Multiplex Communication System - Communication Bus

Multiplex Communication System Includes Following Systems

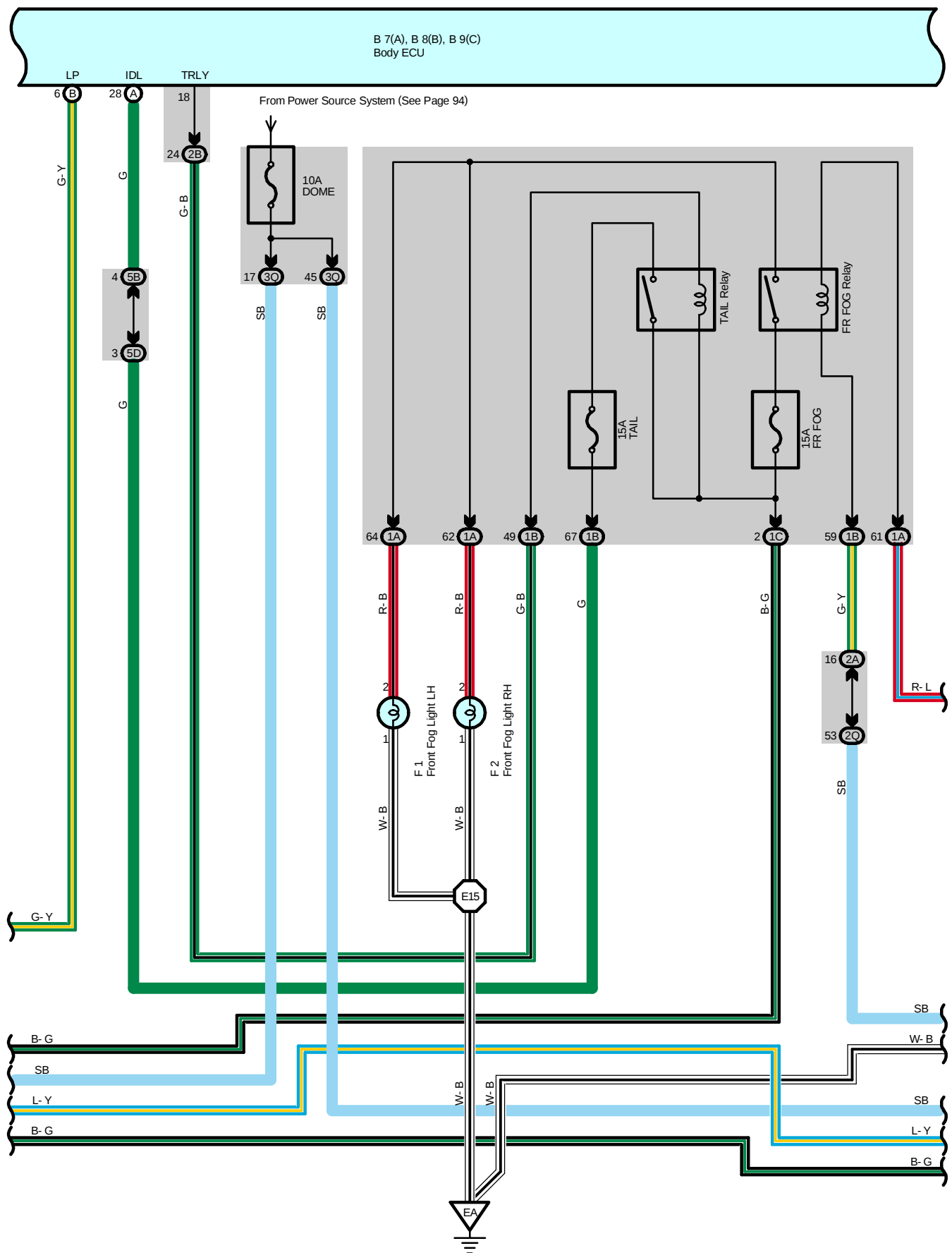
- * Automatic Light Control
- * Door Lock Control
- * Front Fog Light
- * Headlight
- * Interior Light
- * Key Reminder
- * Light Auto Turn Off System
- * Power Window
- * Theft Deterrent
- * Wireless Door Lock Control

Multiplex Communication System

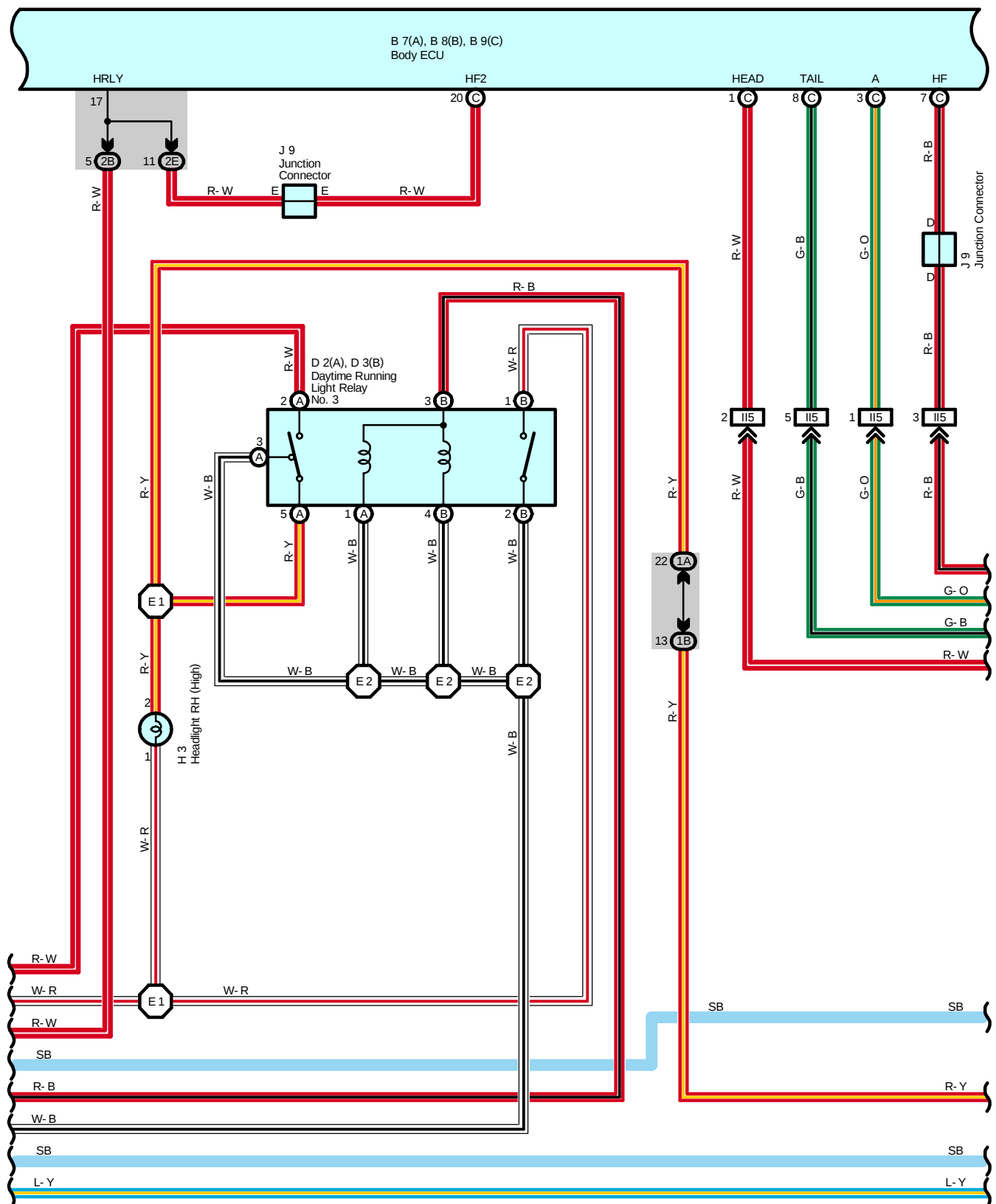


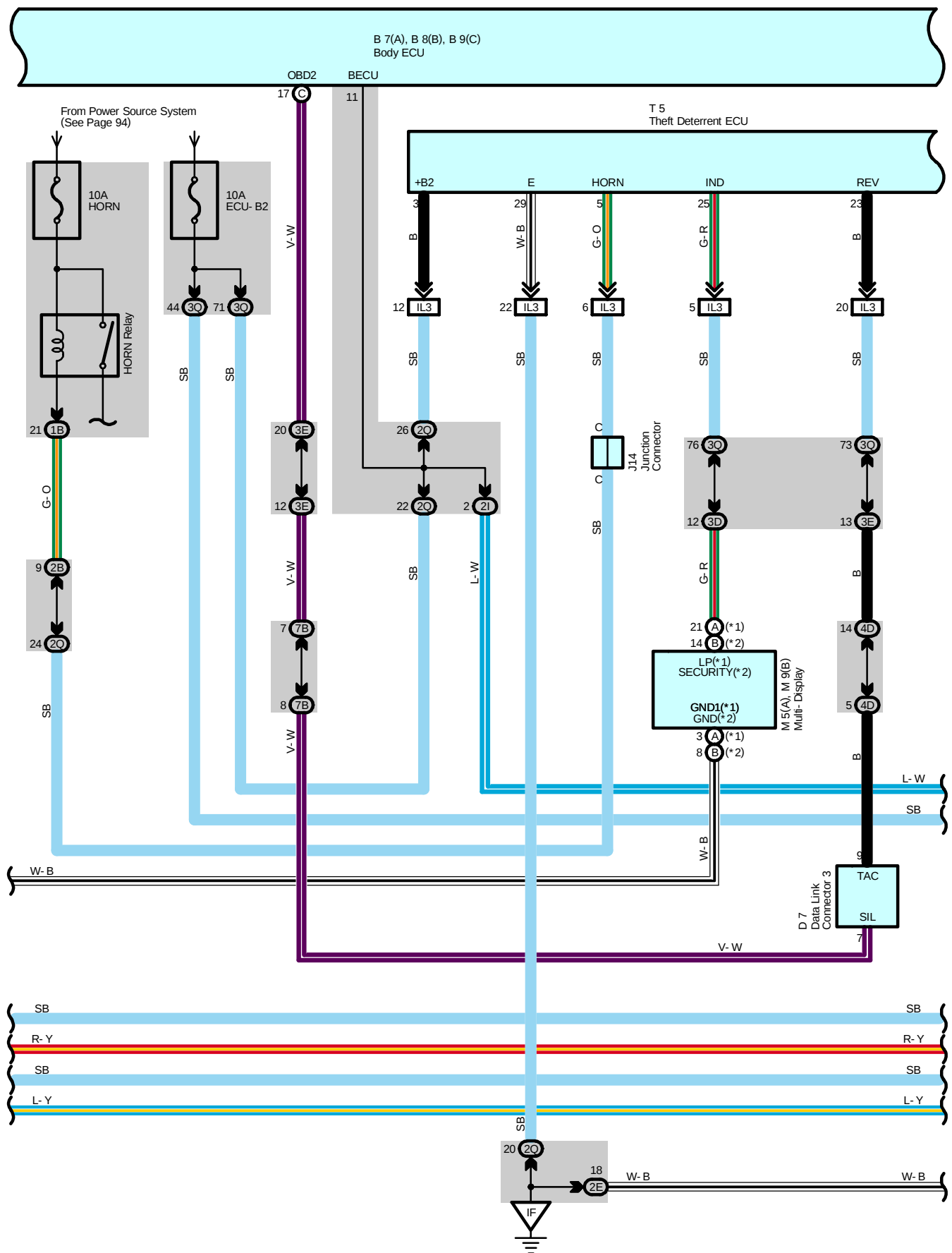


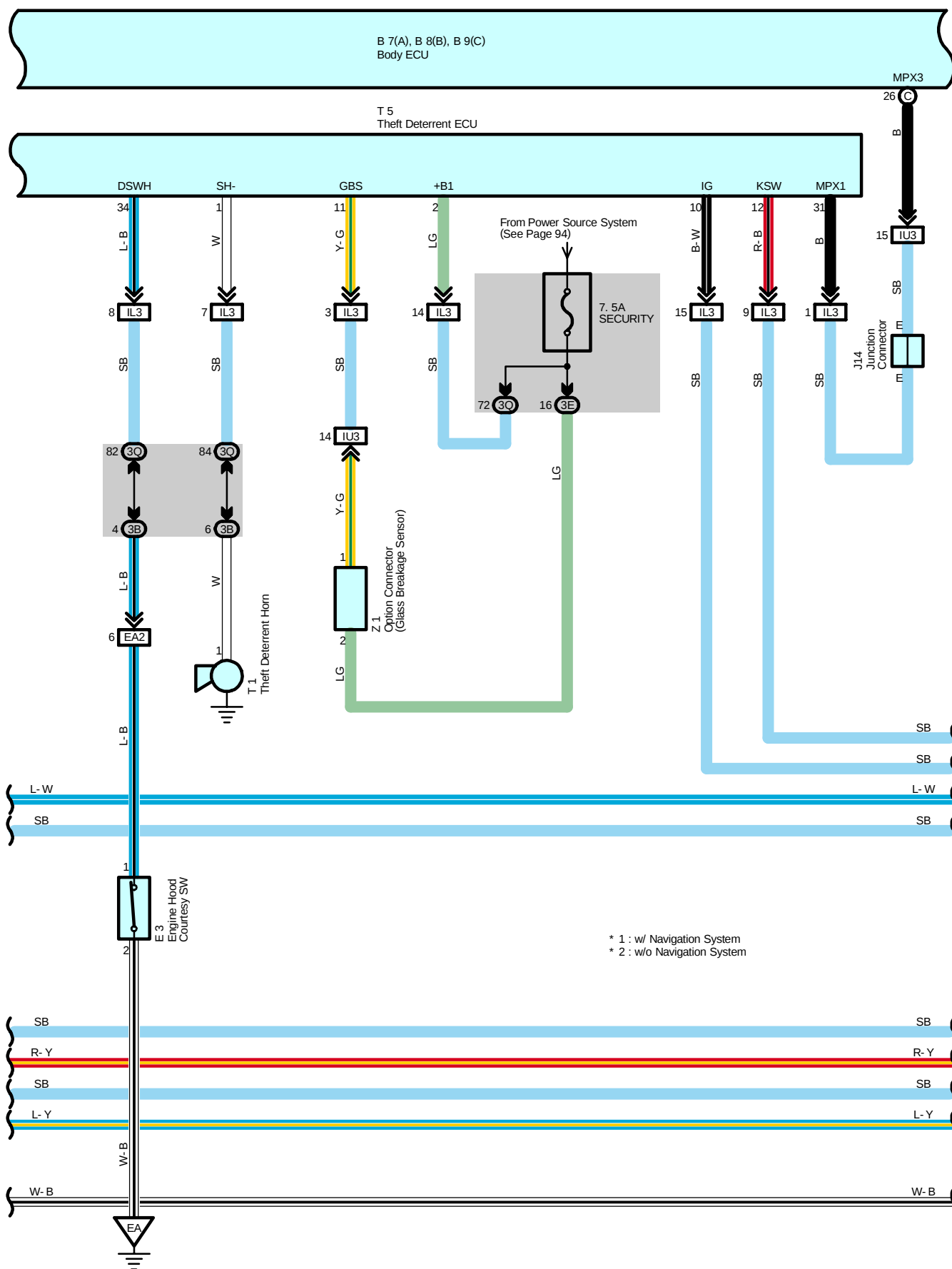
Multiplex Communication System



Multiplex Communication System



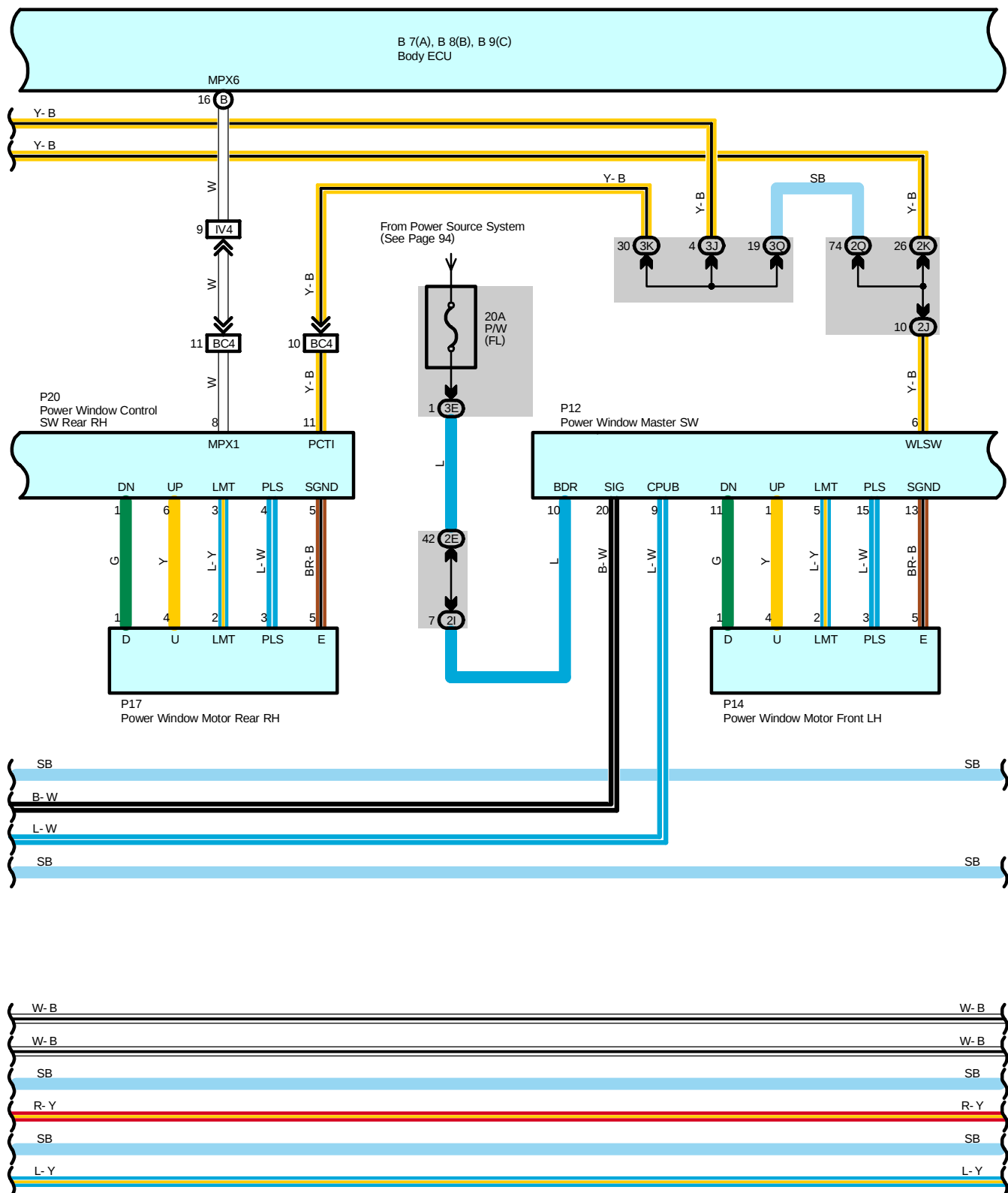


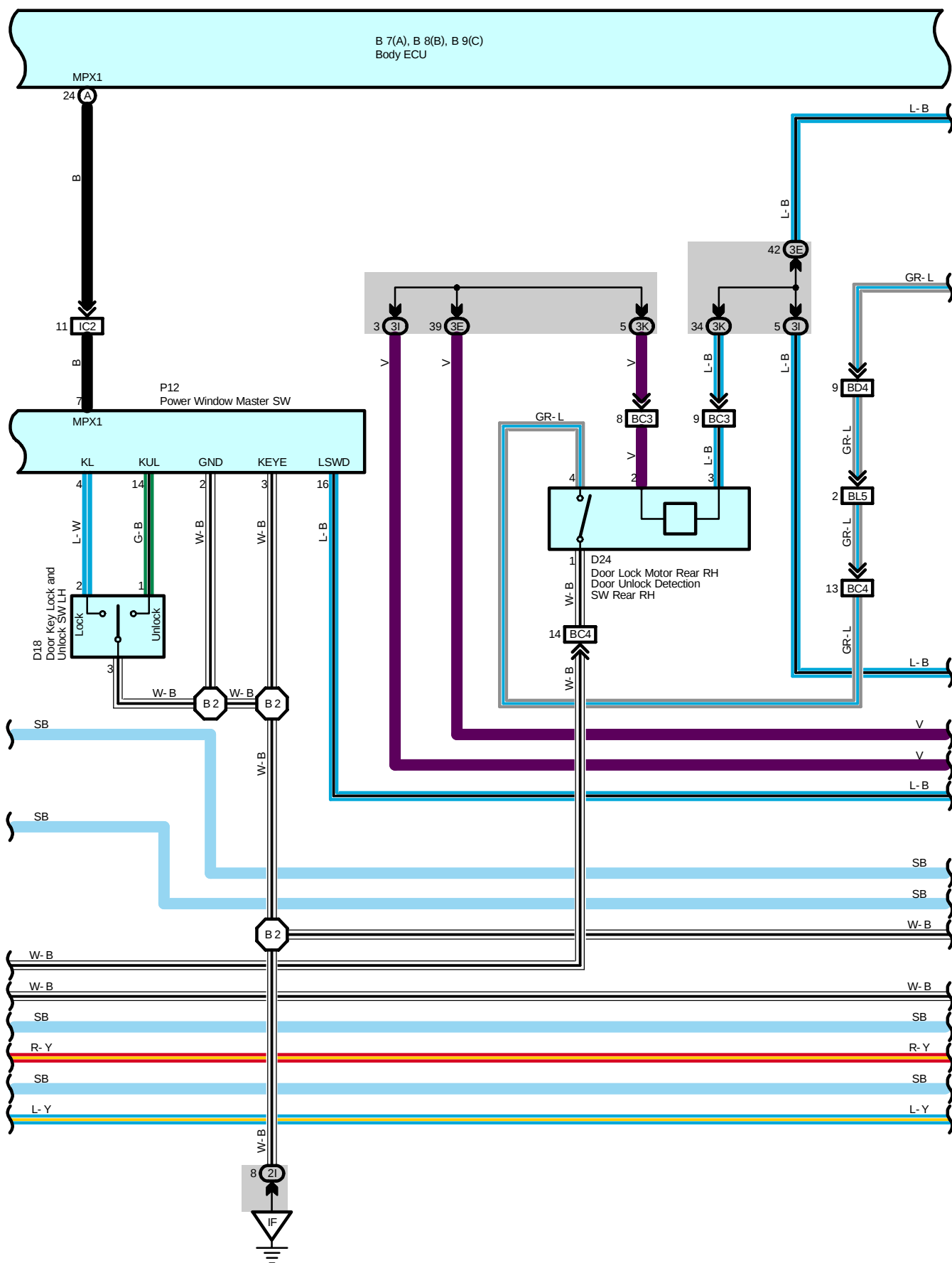




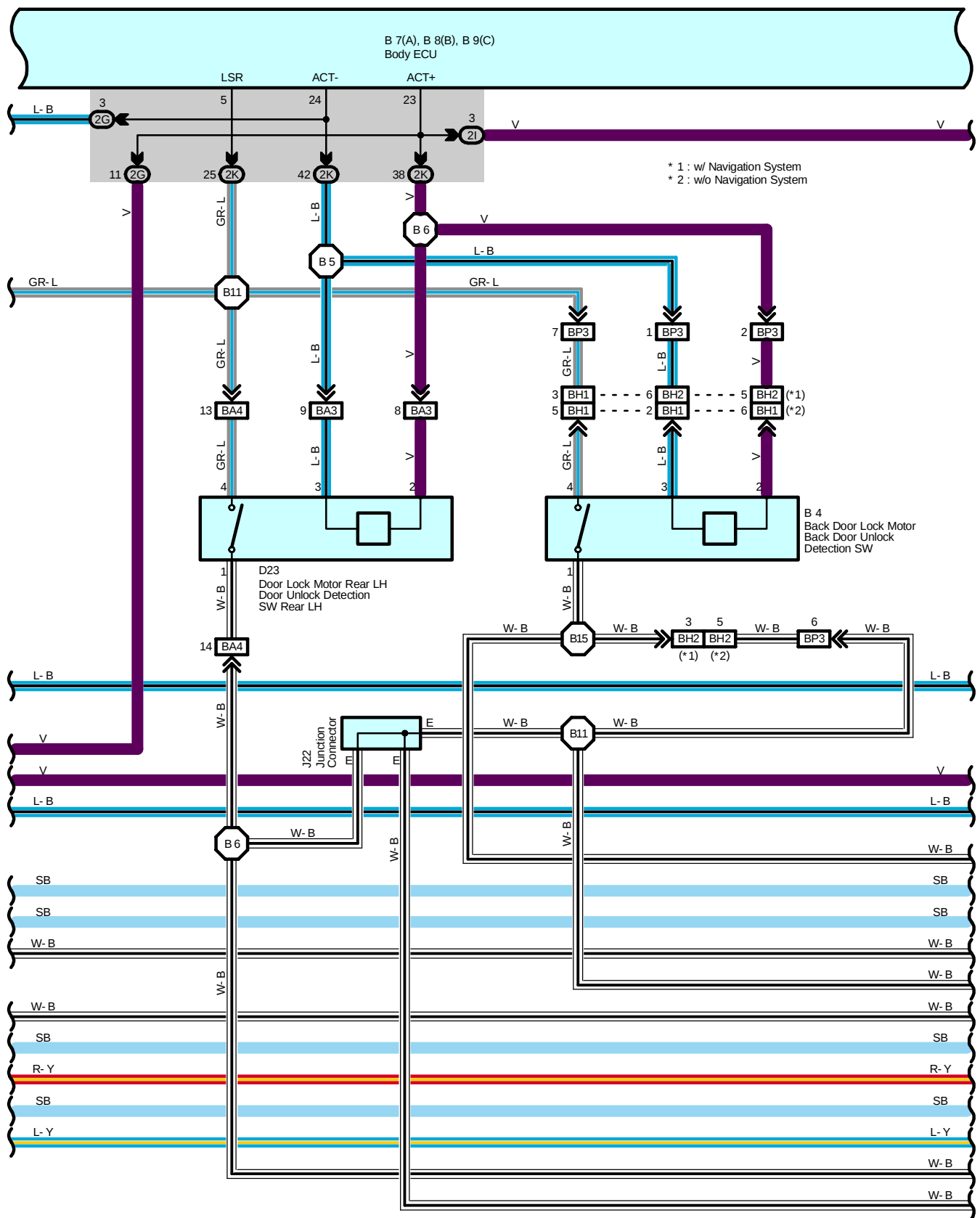


Multiplex Communication System

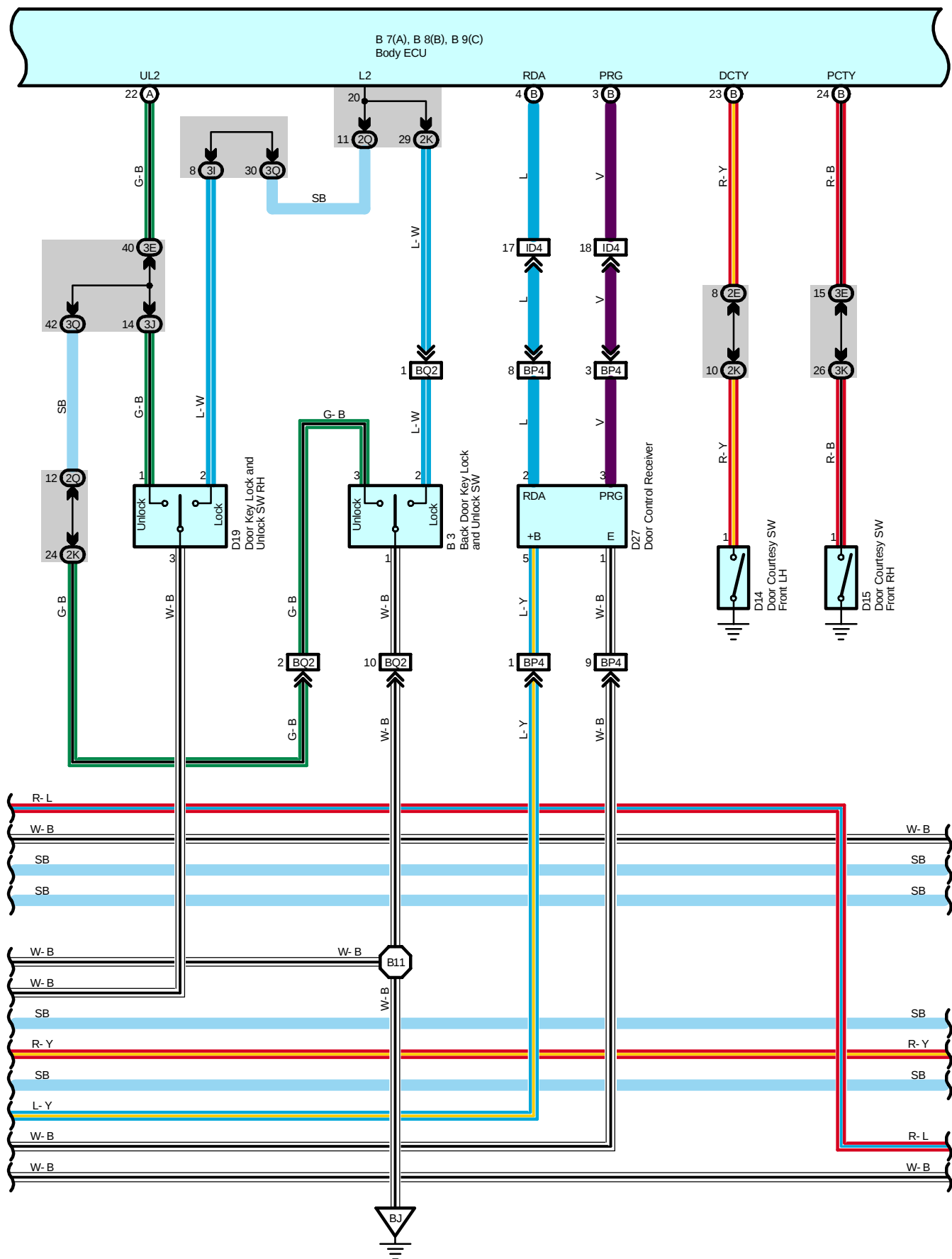




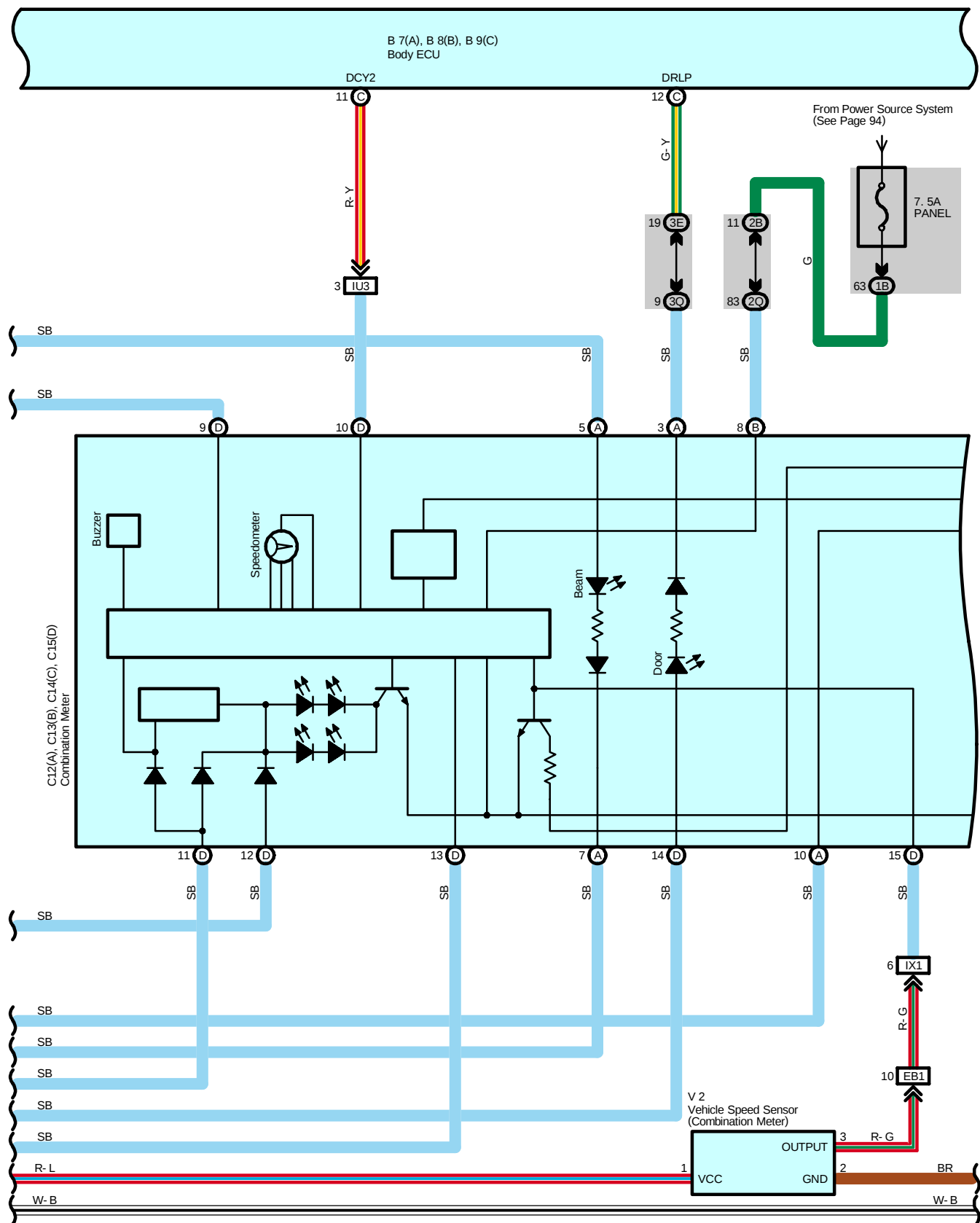
Multiplex Communication System



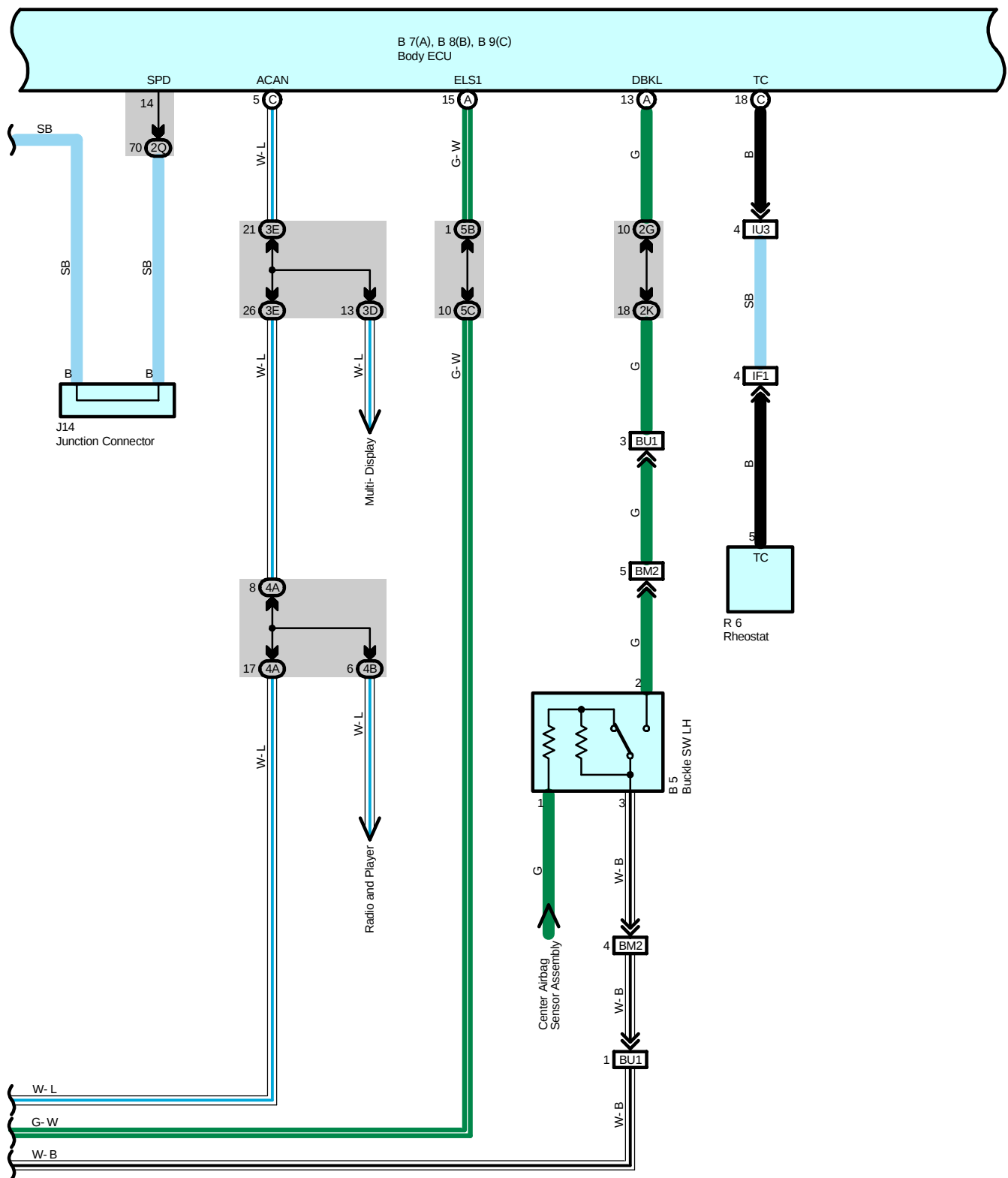
Multiplex Communication System

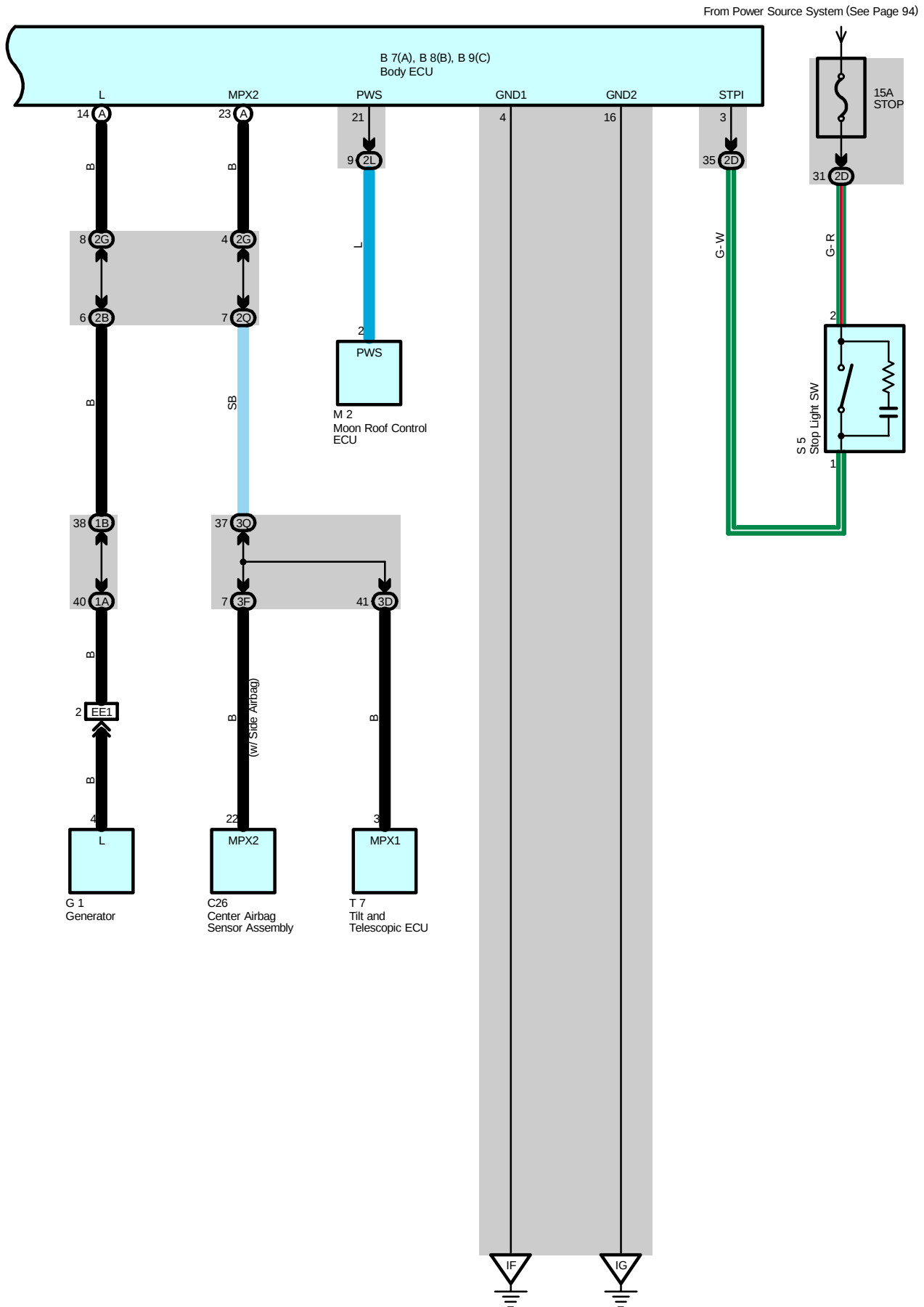


Multiplex Communication System



Multiplex Communication System





Multiplex Communication System

System Outline

The multiplex communication system communicates among the body ECU, theft deterrent ECU, power window master SW, power window control SW front RH, power window control SW rear LH, power window control SW rear RH, center airbag sensor assembly and tilt and telescopic ECU, among the combination meter, engine control module, A/C control assembly and gateway ECU and controls the following systems according to the signals from respective sensors or switches. For details, please refer to the new car features and/or the repair manual.

Service Hints

Body ECU

- 11, 12-Ground : Always approx. 12 volts
- 22-Ground : Approx. 12 volts with ignition SW at ACC or ON position
- 10-Ground : Approx. 12 volts with ignition SW at ON or ST position
- 4, 16-Ground : Always continuity

○ : Parts Location

Code	See Page	Code	See Page	Code	See Page
A31	70	D18	72	J14	71
A45	A 70	D19	72	J22	72
A47	C 70	D20	72	M2	72
B2	72	D21	72	M5	A 71
B3	72	D22	72	M9	B 71
B4	72	D23	72	P1	69
B5	74	D24	72	P8	73
B7	A 70	D27	72	P12	73
B8	B 70	E3	68	P14	73
B9	C 70	E8	D 70	P15	73
C12	A 70	E9	E 70	P16	73
C13	B 70	F1	68	P17	73
C14	C 70	F2	68	P18	73
C15	D 70	F10	72	P19	73
C16	70	F11	72	P20	73
C26	70	F15	68	R6	71
D2	A 68	G1	68	R27	73
D3	B 68	G4	70	S5	71
D7	70	H1	69	T1	69
D10	72	H2	69	T5	71
D11	72	H3	69	T7	71
D12	72	H4	69	T10	71
D13	72	J3	71	U1	71
D14	72	J6	71	V2	69
D15	72	J9	71	V6	73
D16	72	J10	71	V7	73
D17	72	J13	71	Z1	71

**: 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	24	Engine Room No.2 Wire and Engine Room J/B (Engine Compartment Left)
1C		
2A	28	Engine Room No.2 Wire and Cowl Side J/B LH (Left Kick Panel)
2B		
2D	28	Dash Wire and Cowl Side J/B LH (Left Kick Panel)
2E		
2G		
2I	28	Front Door LH Wire and Cowl Side J/B LH (Left Kick Panel)
2J		
2K	28	Floor No.1 Wire and Cowl Side J/B LH (Left Kick Panel)
2L	28	Roof No.1 Wire and Cowl Side J/B LH (Left Kick Panel)
2Q	30	Instrument Panel Integration Wire and Cowl Side J/B LH (Left Kick Panel)
3B	40	Engine Room No.2 Wire and Cowl Side J/B RH (Right Kick Panel)
3D	40	Dash Wire and Cowl Side J/B RH (Right Kick Panel)
3E		
3F		
3I	40	Front Door RH Wire and Cowl Side J/B RH (Right Kick Panel)
3J		
3K	40	Floor No.2 Wire and Cowl Side J/B RH (Right Kick Panel)
3P	43	Dash Wire and Cowl Side J/B RH (Right Kick Panel)
3Q	42	Instrument Panel Integration Wire and Cowl Side J/B RH (Right Kick Panel)
4A	52	Dash Wire and J/B No.4 (Instrument Panel Center)
4B		
4C		
4D		
4E		
4F		
5B	56	Dash Wire and J/B No.5 (Behind the Combination Meter)
5C		
5D	56	Engine Room No.2 Wire and J/B No.5 (Behind the Combination Meter)
6D	60	Engine Wire and J/B No.6 (Behind the Grove Box)
7B	64	Dash Wire and J/B No.7 (Behind the Grove Box)

Multiplex Communication System

: Connector Joining Wire Harness and Wire Harness

Code	See Page	Joining Wire Harness and Wire Harness (Connector Location)
EA2	76	Engine Room Main Wire and Engine Room No.2 Wire (Engine Compartment Right)
EB1	76	Engine Wire and Transmission Wire (On the Transmission)
EE1	76	Engine Room Main Wire and Alternator Wire (Near the Battery)
IC2	78	Front Door LH Wire and Dash Wire (Left Kick Panel)
ID4	78	Dash Wire and Floor No.1 Wire (Left Kick Panel)
IF1	78	Instrument Panel Integration Wire and Instrument Panel Wire (Left Side of Instrument Panel)
IG1	78	Engine Room No.2 Wire and Dash Wire (Behind the Combination Meter)
IH2	80	Instrument Panel Integration Wire and Column Wire (Near the Ignition SW)
II3	80	Dash Wire and Column Wire (Near the Ignition SW)
II5		
IL3	80	Instrument Panel Integration Wire and Computer Wire (Instrument Panel Center)
IM2	80	Instrument Panel Integration Wire and Instrument Panel No.3 Wire (Right Side of Instrument Panel)
IN2	80	Engine Wire and Dash Wire (Behind the Glove Box)
IU1	82	Instrument Panel Integration Wire and Dash Wire (Behind the Glove Box)
IU3		
IU4		
IV3	82	Dash Wire and Floor No.2 Wire (Right Kick Panel)
IV4		
IX1	82	Instrument Panel Integration Wire and Engine Wire (Behind the Glove Box)
IY2	82	Front Door RH Wire and Dash Wire (Right Kick Panel)
Ib2	84	Dash Wire and Dash Wire (Behind the Combination Meter)
BA3	86	Rear Door LH Wire and Floor No.1 Wire (Left Side of Center Pillar)
BA4		
BC3	86	Rear Door RH Wire and Floor No.2 Wire (Right Side of Center Pillar)
BC4		
BD4	86	Floor No.3 Wire and Floor No.1 Wire (Left Rear Side Quarter Panel)
BH1	86	Pillar No.1 Wire and Back Door Upper Wire (Left Side of Back Door)
BH2		
BL5	88	Floor No.2 Wire and Floor No.3 Wire (Right Side of Rear Floor Crossmember)
BM2	90	Floor No.1 Wire and Front Seat LH Wire (Front Side Under the Driver's Seat)
BP3	88	Pillar No.1 Wire and Floor No.1 Wire (Left Rear Side Quarter Panel)
BP4		
BQ2	88	Back Door Lower Wire and Floor No.1 Wire (Left Rear Side Quarter Panel)
BR1	88	Roof No.3 Wire and Roof No.1 Wire (Front Side of Roof)
BS1	88	Door Lock LH Sub Wire and Front Door LH Wire (Front Door LH)
BT1	88	Door Lock RH Sub Wire and Front Door RH Wire (Front Door RH)
BU1	88	Floor No.1 Wire and Floor No.1 Wire (Near the Left Rear Suspension Support)

: Ground Points

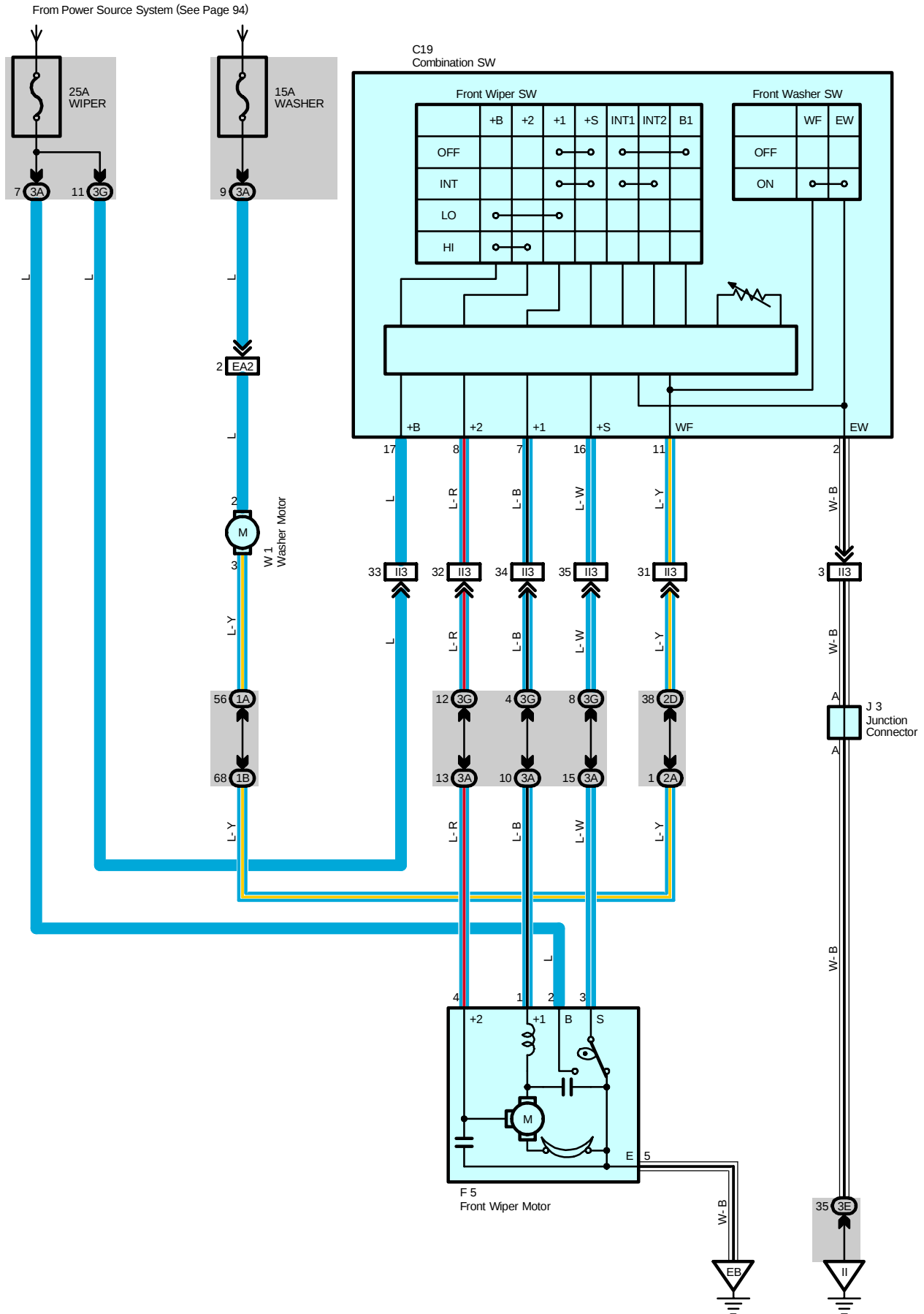
Code	See Page	Ground Points Location
EA	76	Front Right Side of Fender Apron
EC	76	Rear Bank of Right Cylinder Head
IF	78	Set Bolt of Cowl Side J/B LH
IG		
II	78	Set Bolt of Cowl Side J/B RH
BJ	86	Under the Driver's Seat
BK	86	Front Side Under the Front Passenger's Seat



: Splice Points

Code	See Page	Wire Harness with Splice Points	Code	See Page	Wire Harness with Splice Points
E1	76	Engine Room Main Wire	B6	88	Floor No.1 Wire
E2			B7	88	Roof No.1 Wire
E10	76	Engine Wire	B8	88	Front Door RH Wire
E15	76	Engine Room Main Wire	B9	88	Floor No.2 Wire
B2	88	Front Door LH Wire	B11	88	Floor No.1 Wire
B4	88	Floor No.1 Wire	B15	88	Back Door Upper Wire
B5					

Front Wiper and Washer



System Outline

When the ignition SW turned on, the current from the WIPER fuse flows to the front wiper and washer SW TERMINAL 17, and the front wiper motor TERMINAL 2.

1. Low Position

When the front wiper SW is turned to LO position, the current flows from the front wiper and washer SW TERMINAL 17 to TERMINAL 7 to the front wiper motor TERMINAL 1 to TERMINAL 5 to GROUND, and operates the front wiper motor at low speed.

2. High Position

When the front wiper SW is turned to HI position, the current flows from the front wiper and washer SW TERMINAL 17 to TERMINAL 8 to the front wiper motor TERMINAL 4 to TERMINAL 5 to GROUND, and operates the front wiper motor at high speed.

3. INT Position

When the front wiper SW is turned to INT position, the relay operates and the current which is connected by the relay function flows from the front wiper and washer SW TERMINAL 17 to TERMINAL 2 to GROUND, and operates the wipe.

The intermittent operation is controlled by the charge/discharge function of the condenser installed in the relay, and the intermittent time is controlled by a time control SW to change the charging time of the condenser.

4. Washer Interlocking Operation

When the front washer SW is pulled up, the current flows from the washer motor TERMINAL 2 to TERMINAL 3 to the front wiper and washer SW TERMINAL 11 to TERMINAL 2 to GROUND, operates the washer motor and the window washer emits a water spray. This causes the current to flow to the washer continuous operation circuit in the front wiper and washer SW TERMINAL 11 to TERMINAL 7 to front wiper motor TERMINAL 1 to TERMINAL 5 to GROUND, and operates the wiper.

Service Hints

C19 Combination SW

17-Ground : Approx. 12 volts with ignition SW at ON or ST position

7-Ground : Approx. 12 volts with front wiper and washer SW at LO position

: Approx. 12 volts 1.6 to 10.7 seconds intermittently with the front wiper and washer SW at INT position

16-Ground : Approx. 12 volts with ignition SW on unless the front wiper motor at STOP position

8-Ground : Approx. 12 volts with front wiper and washer SW at HI position

2-Ground : Always continuity

F5 Front Wiper Motor

2-Ground : Approx. 12 volts with ignition SW at ON or ST position

5-Ground : Always continuity

: Parts Location

Code	See Page	Code	See Page	Code	See Page
C19	70	J3	71		
F5	68	W1	69		

: 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	24	Engine Room No.2 Wire and Engine Room J/B (Engine Compartment Left)
2A	28	Engine Room No.2 Wire and Cowl Side J/B LH (Left Kick Panel)
2D	28	Dash Wire and Cowl Side J/B LH (Left Kick Panel)
3A	40	Engine Room No.2 Wire and Cowl Side J/B RH (Right Kick Panel)
3E	40	Dash Wire and Cowl Side J/B RH (Right Kick Panel)
3G		

: Connector Joining Wire Harness and Wire Harness

Code	See Page	Joining Wire Harness and Wire Harness (Connector Location)
EA2	76	Engine Room Main Wire and Engine Room No.2 Wire (Engine Compartment Right)
II3	80	Dash Wire and Column Wire (Near the Ignition SW)

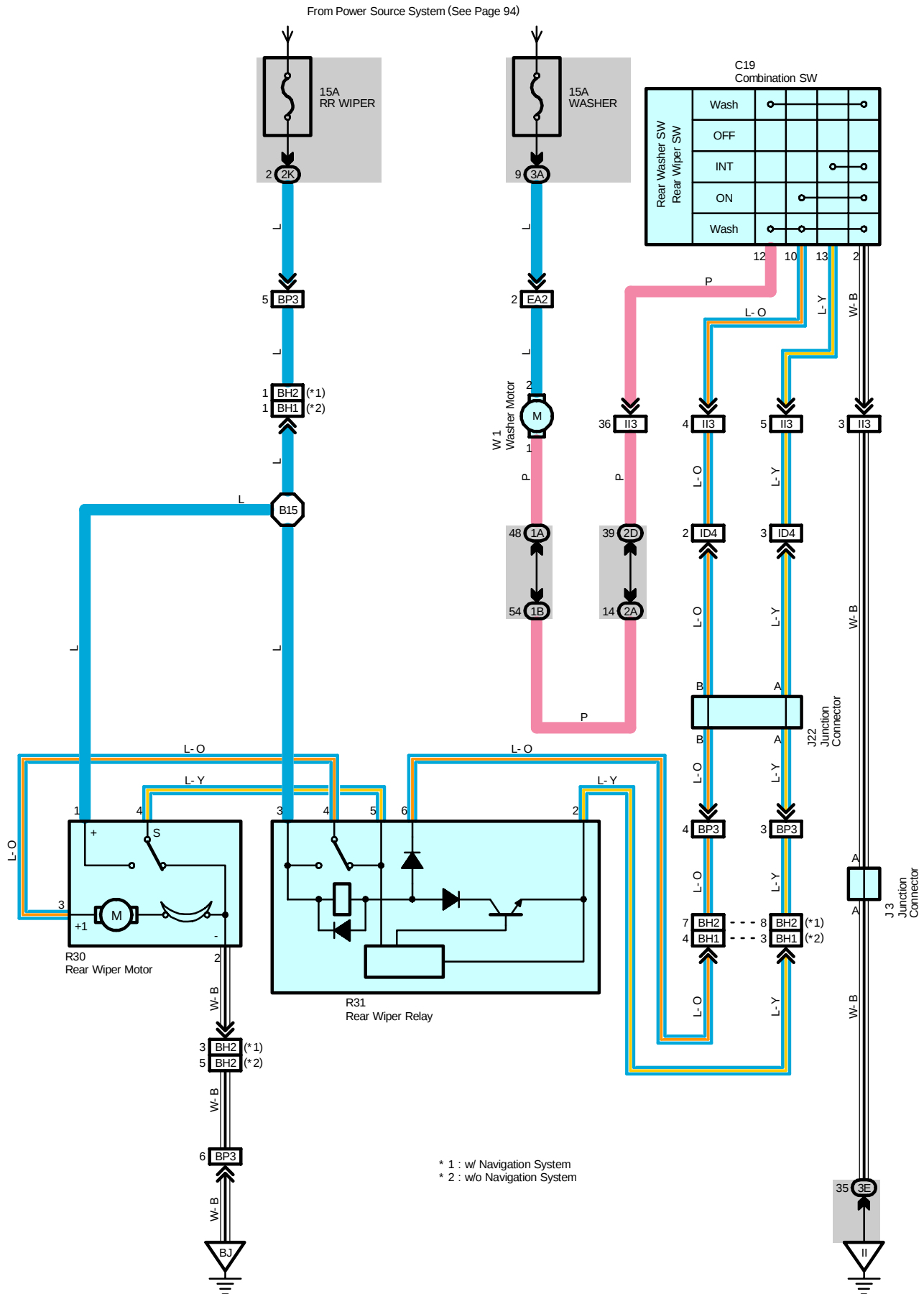
Front Wiper and Washer



: Ground Points

Code	See Page	Ground Points Location
EB	76	Front Right Side of Fender Apron
II	78	Set Bolt of Cowl Side J/B RH

Rear Wiper and Washer



System Outline

When the ignition SW is turned on, the current flows from the WASHER fuse to washer motor TERMINAL 2, and the current flows from the RR WIPER fuse to rear wiper relay TERMINAL 3, and the rear wiper motor TERMINAL 1 respectively.

1. Rear Wiper Normal Operation

When the ignition SW is turned on, and the rear wiper and washer SW is turned to ON position, the current flows from the rear wiper relay TERMINAL 3 to TERMINAL 6 to the rear wiper and washer SW TERMINAL 10 to TERMINAL 2 to GROUND, and turns on the rear wiper relay. As a result, the current flows from the rear wiper relay TERMINAL 3 to TERMINAL 4 to the rear wiper motor TERMINAL 3 to TERMINAL 2 to GROUND, and operates the rear wiper.

2. Rear Wiper Intermittent Operation

When the ignition SW is turned on, and the rear wiper and washer SW is turned to INT position, the current flows from the rear wiper relay TERMINAL 3 to TERMINAL 2 to the rear wiper and washer SW TERMINAL 13 to TERMINAL 2 to GROUND, and the intermittent circuit in the rear wiper relay is controlled to operate the wiper intermittently.

3. Washer Operation

When the ignition SW is turned on, and the rear wiper and washer SW is turned from OFF to WASH position, the current flows from the WASHER fuse to the washer motor TERMINAL 2 to TERMINAL 1 to the rear wiper and washer SW TERMINAL 12 to TERMINAL 2 to GROUND. This activates the washer motor, and the window washer emits a water spray. When the rear wiper and washer SW is turned to ON position, the window washer emits a water spray during rear wiper normal operation.

Service Hints

W1 Washer Motor

- 2-Ground : Approx. 12 volts with ignition SW at ON or ST position
- 1-Ground : Continuity with rear wiper and washer SW at WASH position

R30 Rear Wiper Motor

- 1-Ground : Approx. 12 volts with ignition SW at ON or ST position
- 2-Ground : Always continuity

○ : Parts Location

Code	See Page	Code	See Page	Code	See Page
C19	70	J22	72	R31	73
J3	71	R30	73	W1	69

□ : 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	24	Engine Room No.2 Wire and Engine Room J/B (Engine Compartment Left)
2A	28	Engine Room No.2 Wire and Cowl Side J/B LH (Left Kick Panel)
2D	28	Dash Wire and Cowl Side J/B LH (Left Kick Panel)
2K	28	Floor No.1 Wire and Cowl Side J/B LH (Left Kick Panel)
3A	40	Engine Room No.2 Wire and Cowl Side J/B RH (Right Kick Panel)
3E	40	Dash Wire and Cowl Side J/B RH (Right Kick Panel)

□ : Connector Joining Wire Harness and Wire Harness

Code	See Page	Joining Wire Harness and Wire Harness (Connector Location)
EA2	76	Engine Room Main Wire and Engine Room No.2 Wire (Engine Compartment Right)
ID4	78	Dash Wire and Floor No.1 Wire (Left Kick Panel)
II3	80	Dash Wire and Column Wire (Near the Ignition SW)
BH1	86	Pillar No.1 Wire and Back Door Upper Wire (Left Side of Back Door)
BH2		
BP3	88	Pillar No.1 Wire and Floor No.1 Wire (Left Rear Side Quarter Panel)

Rear Wiper and Washer



: Ground Points

Code	See Page	Ground Points Location
II	78	Set Bolt of Cowl Side J/B RH
BJ	86	Under the Driver's Seat

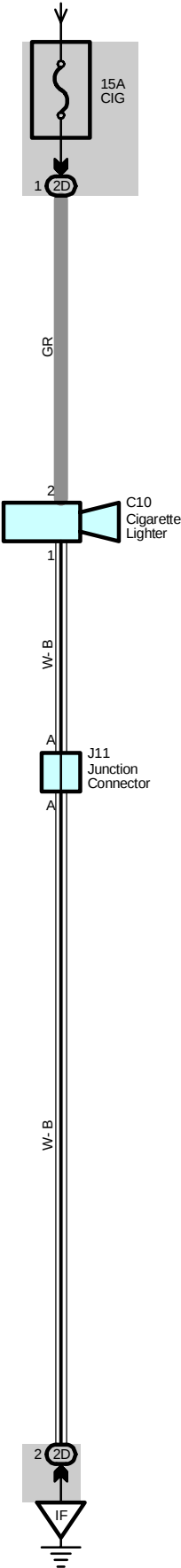


: Splice Points

Code	See Page	Wire Harness with Splice Points	Code	See Page	Wire Harness with Splice Points
B15	88	Back Door Upper Wire			

Cigarette Lighter

From Power Source System (See Page 94)



Service Hints

C10 Cigarette Lighter

2-Ground : Approx. 12 volts with ignition SW at ACC or ON position

1-Ground : Always continuity

: Parts Location

Code	See Page	Code	See Page	Code	See Page
C10	70	J11	71		

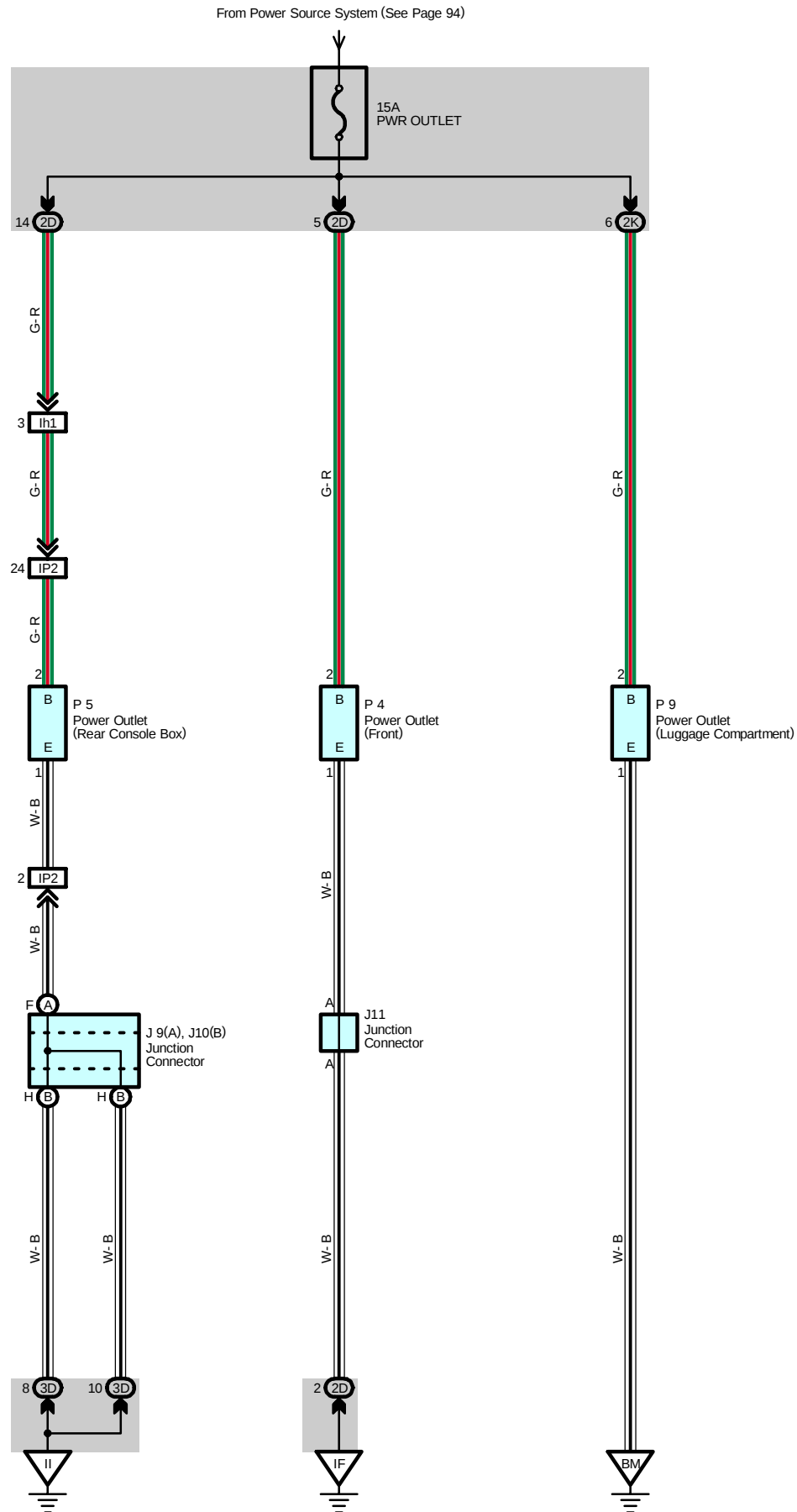
: Junction Block and Wire Harness Connector

Code	See Page	Junction Block and Wire Harness (Connector Location)
2D	28	Dash Wire and Cowl Side J/B LH (Left Kick Panel)

: Ground Points

Code	See Page	Ground Points Location
IF	78	Set Bolt of Cowl Side J/B LH

Power Outlet



Service Hints

P4 Power Outlet (Front)

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

P5 Power Outlet (Rear Console Box)

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

P9 Power Outlet (Luggage Compartment)

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

○ : Parts Location

Code		See Page	Code		See Page	Code		See Page
J9	A	71	J11	71	P5	71		
J10	B	71	P4	71	P9	73		

○ : Junction Block and Wire Harness Connector

Code	See Page	Junction Block and Wire Harness (Connector Location)
2D	28	Dash Wire and Cowl Side J/B LH (Left Kick Panel)
2K	28	Floor No.1 Wire and Cowl Side J/B LH (Left Kick Panel)
3D	40	Dash Wire and Cowl Side J/B RH (Right Kick Panel)

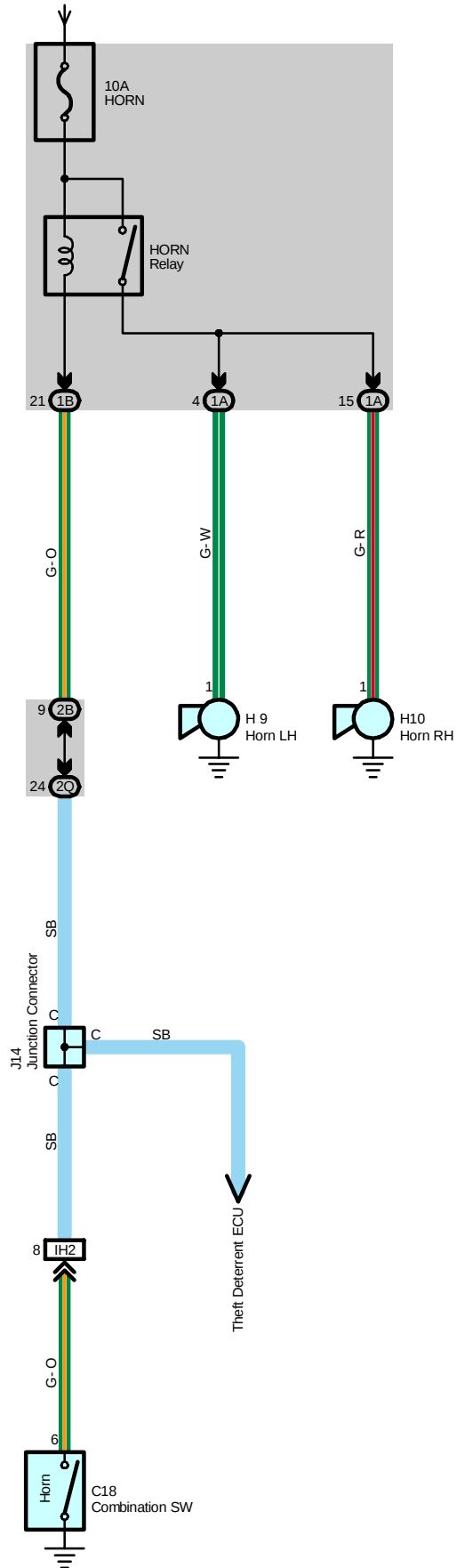
□ : Connector Joining Wire Harness and Wire Harness

Code	See Page	Joining Wire Harness and Wire Harness (Connector Location)
IP2	80	Rear Console Box Wire and Dash Wire (Right Side of Rear Console)
Ih1	84	Dash Wire and Dash Wire (Center Side of Front Console)

▽ : Ground Points

Code	See Page	Ground Points Location
IF	78	Set Bolt of Cowl Side J/B LH
II	78	Set Bolt of Cowl Side J/B RH
BM	86	Left Rear Side Quarter Panel

From Power Source System (See Page 94)



Service Hints

C18 Combination SW

6-Ground :Continuity with horn SW on

: Parts Location

Code	See Page	Code	See Page	Code	See Page
C18	70	H10	69		
H9	69	J14	71		

: Junction Block and Wire Harness Connector

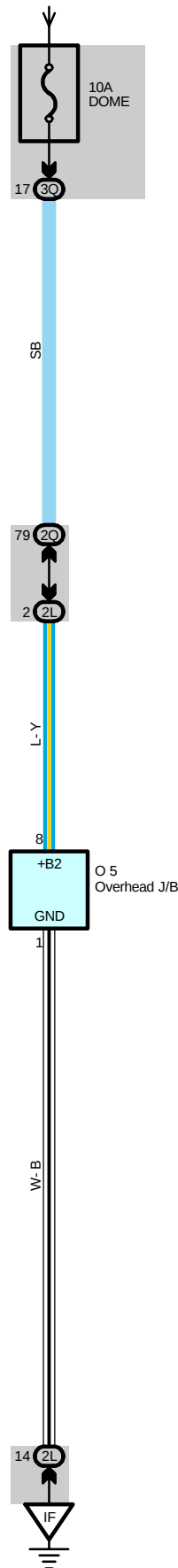
Code	See Page	Junction Block and Wire Harness (Connector Location)
1A	24	Engine Room Main Wire and Engine Room J/B (Engine Compartment Left)
1B	24	Engine Room No.2 Wire and Engine Room J/B (Engine Compartment Left)
2B	28	Engine Room No.2 Wire and Cowl Side J/B LH (Left Kick Panel)
2Q	30	Instrument Panel Integration Wire and Cowl Side J/B LH (Left Kick Panel)

: Connector Joining Wire Harness and Wire Harness

Code	See Page	Joining Wire Harness and Wire Harness (Connector Location)
IH2	80	Instrument Panel Integration Wire and Column Wire (Near the Ignition SW)

Garage Door Opener

From Power Source System (See Page 94)



Service Hints

O5 Overhead J/B

8-Ground : Always approx. 12 volts

1-Ground : Always continuity

: Parts Location

Code	See Page	Code	See Page	Code	See Page
O5	72				

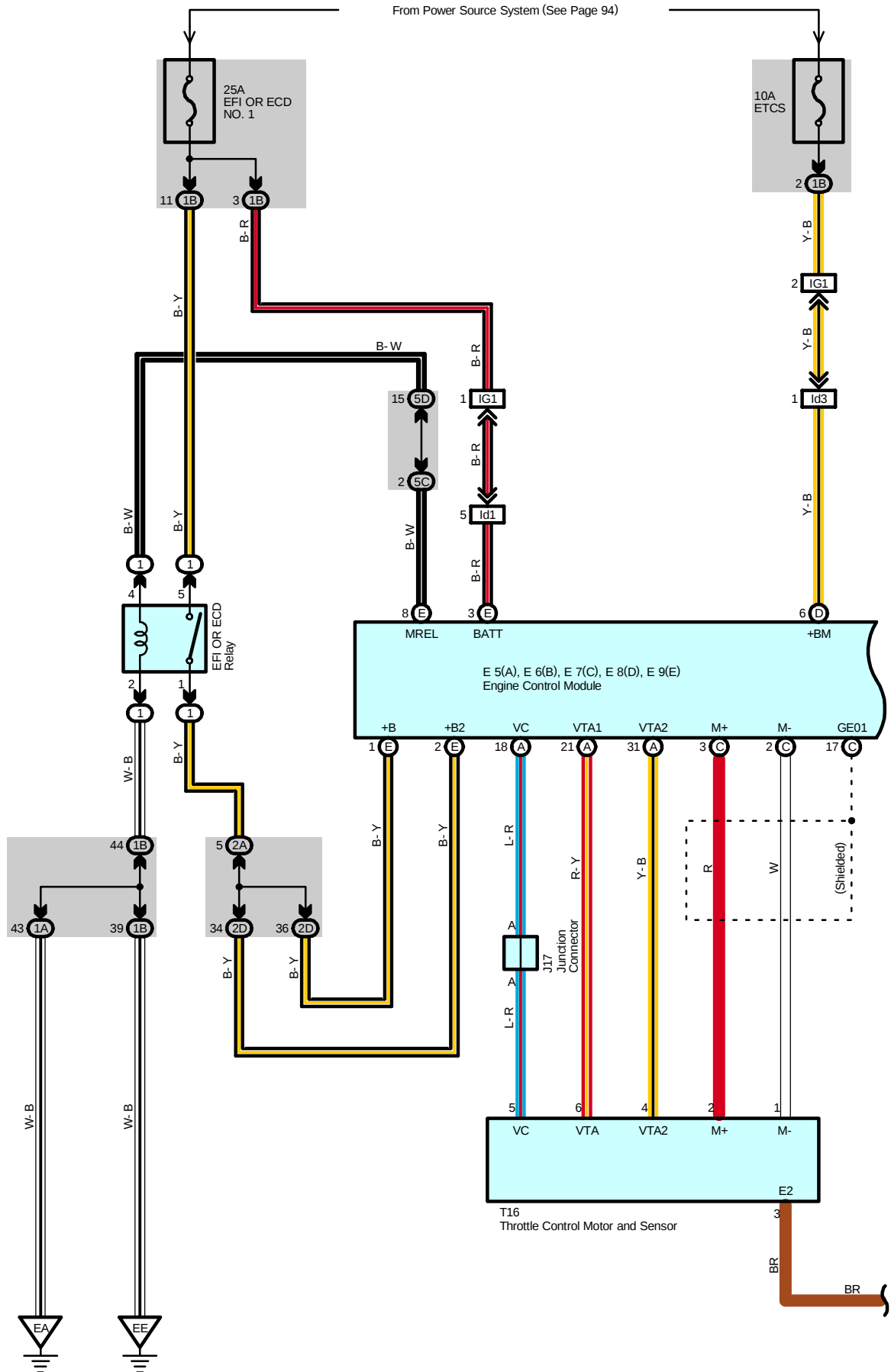
: Junction Block and Wire Harness Connector

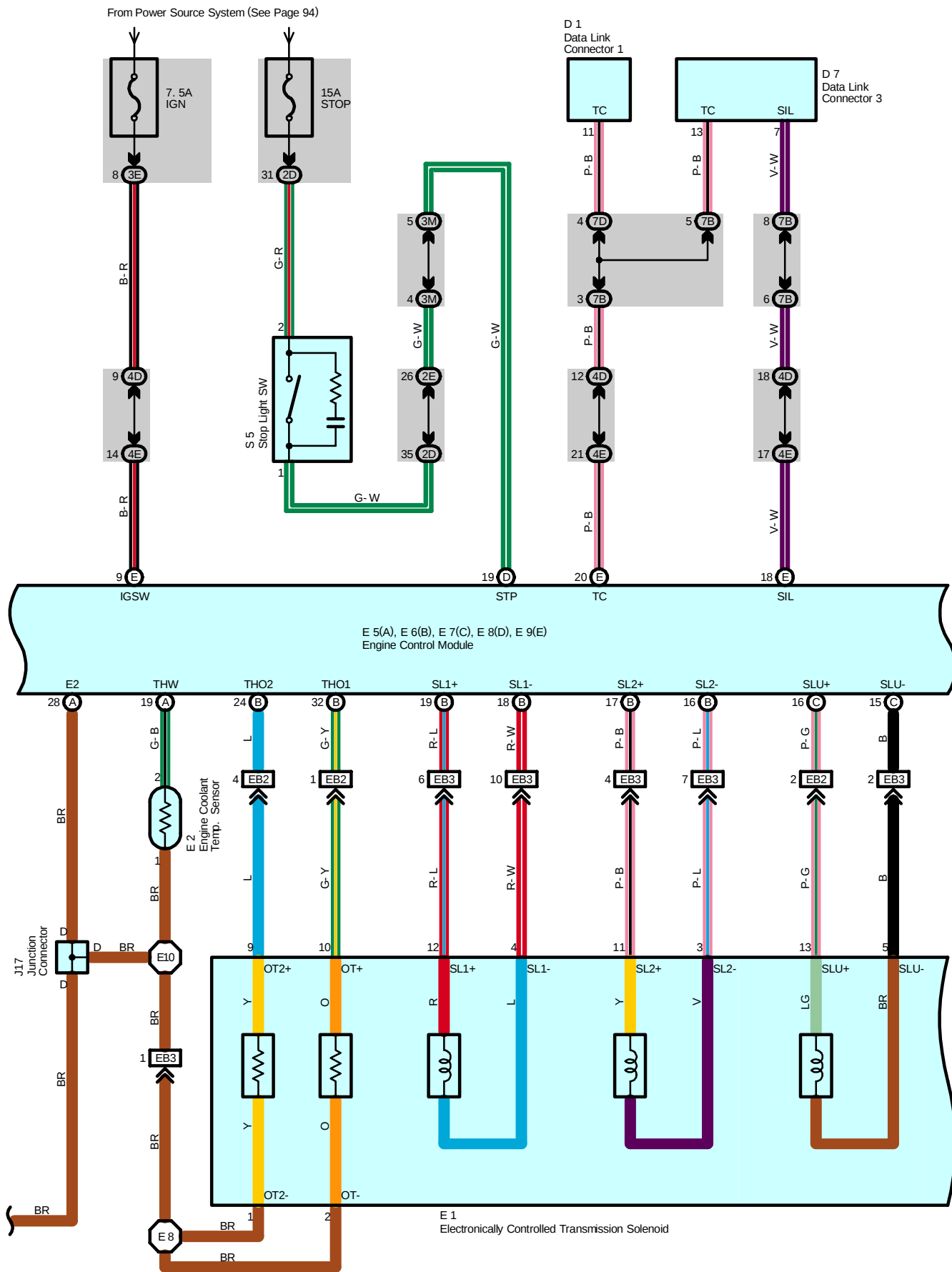
Code	See Page	Junction Block and Wire Harness (Connector Location)
2L	28	Roof No.1 Wire and Cowl Side J/B LH (Left Kick Panel)
2Q	30	Instrument Panel Integration Wire and Cowl Side J/B LH (Left Kick Panel)
3Q	42	Instrument Panel Integration Wire and Cowl Side J/B RH (Right Kick Panel)

: Ground Points

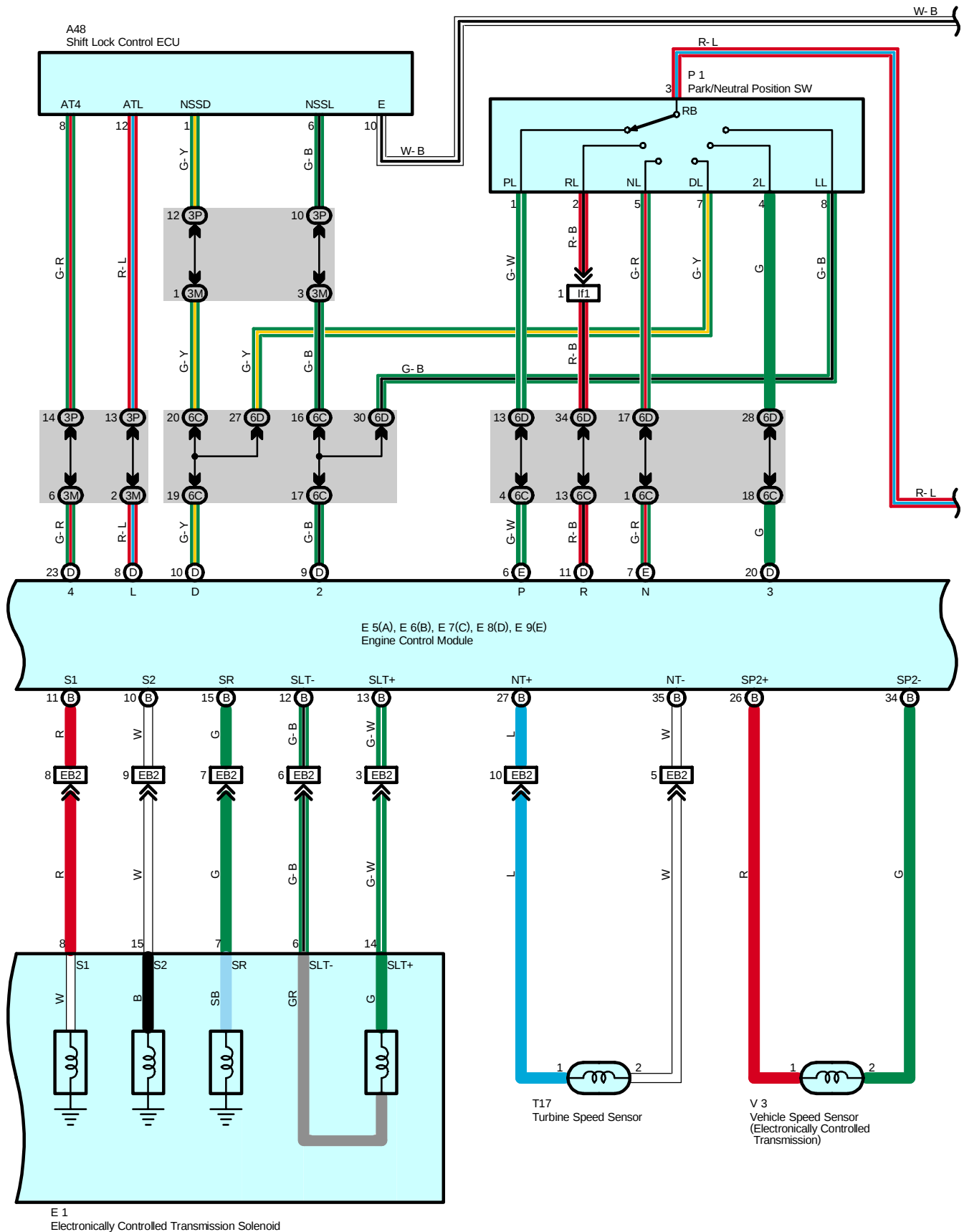
Code	See Page	Ground Points Location
IF	78	Set Bolt of Cowl Side J/B LH

ECT and A/T Indicator



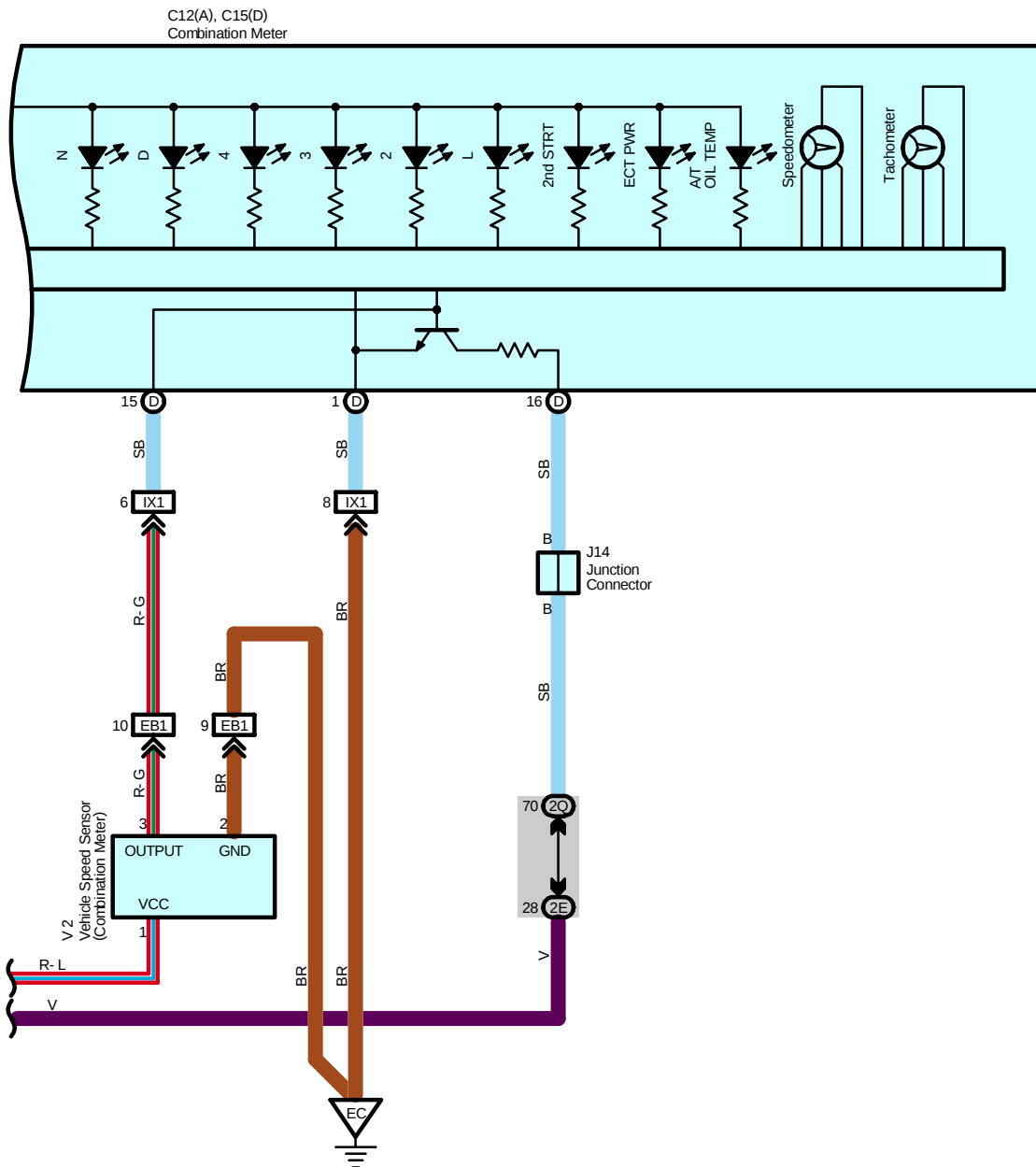


ECT and A/T Indicator





* 1 : w/ Navigation System



System Outline

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

1. Gear Shift Operation

When driving, the engine warm up condition is input as a signal to TERMINAL THW of the engine control module from the engine coolant temp. sensor and the vehicle speed signal from vehicle speed sensor is input to TERMINAL SP2+ of the engine control module. At the same time, the throttle valve opening signal from the throttle position sensor is input to TERMINALS VTA1 and VTA2 of the engine control module as throttle angle signal.

Based on these signals, the engine control module selects the best shift position for the driving conditions and sends current to the electronically controlled transmission solenoid.

2. Line Hydraulic Pressure Control

The engine control module adjusts the line hydraulic pressure to the optimal level by controlling TERMINAL SLT+ of the module according to the engine torque data. This realizes the smooth gear shifting.

3. High Response Gear Shifting Control

The engine control module performs the high response engine torque up control to control the ignition-timing lag as well as opening the electronic throttle when shifting down. By doing this, the gear shifting is performed in a short period of time. Moreover, the engine control module uses the orifice switching control, which optimizes the speed of applying and reducing the hydraulic pressure. And it realizes the fine shifting condition by applying and reducing hydraulic pressure slowly when the gear shifting shock is important and quickly when the high response is required.

4. Clutch Hydraulic Pressure Control

The engine control module controls the clutch operation in the optimal timing and with the best hydraulic pressure according to the engine torque data and the number of the clutch revolution

5. Lock-Up and Flexible Lock-Up Control

The engine control module carries out the lock-up control by controlling the TERMINAL SLU+ of the module according to the shift position, vehicle speed, throttle opening degree and running conditions. The engine control module also steadily keeps applying the lock-up clutch a delicate slippage to improve the transmission efficiency (Fuel efficiency) of the torque converter.

6. Stop Light SW Circuit

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

7. Ai-Shift Control

The engine control module judges whether the road is downslope or upslope by detecting the throttle opening degree or the vehicle's speed. Moreover it can expect the winding roads by detecting the turning condition of the vehicle. The engine control module keeps unnecessary shifting up from the fourth gear from operating and carries out the automatic shifting down to the third gear in order to control the vehicle running according to the road conditions. The engine control module also reads the driver's intention during driving from his (her) accelerating operation and the running conditions of the vehicle. As a result of that, ideal shifting patters for each driver are automatically selected without any switching operations.

8. Electronically Controlled Transmission Pattern Select SW Circuit

When the electronically controlled transmission pattern select SW is switched to PWR, a signal is input to TERMINAL PWR of the engine control module. This enables shift-up and shift-down at a higher speed range.

9. Transfer Shift Operation

When the transfer shift lever is moved to L position, a signal is input into TERMINAL L4 of the engine control module.

In addition when the transfer shift lever is moved to N position a signal is input to engine control module TERMINAL TFN.

The engine control module detects the transfer condition through this.

Service Hints

E4 Electronically Controlled Transmission Pattern Select SW

5-3 : Closed with select SW at PWR position

2-3 : Closed with select SW at 2nd position

E7 (C), E9 (E) Engine Control Module

BATT-E1 : Always 9.0-14.0 volts

+B-E1 : 9.0-14.0 volts with ignition SW at ON or ST position

+B2-E1 : 9.0-14.0 volts with ignition SW at ON or ST position

IGSW-E1 : 9.0-14.0 volts with ignition SW at ON or ST position

P1 Park/Neutral Position SW

3-1 : Closed with shift lever in P position

3-2 : Closed with shift lever in R position

3-5 : Closed with shift lever in N position

3-7 : Closed with shift lever in D position

3-4 : Closed with shift lever in 2 position

3-8 : Closed with shift lever in L position

○ : Parts Location

Code	See Page	Code	See Page	Code	See Page
A14	70	E1	68	J14	71
A45	70	E2	68	J17	71
A48	70	E4	70	P1	69
C12	A 70	E5	A 70	S5	71
C15	D 70	E6	B 70	T16	69
D1	68	E7	C 70	T17	69
D5	68	E8	D 70	V2	69
D6	68	E9	E 70	V3	69
D7	70	G4	70		

○ : Relay Blocks

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

ECT and A/T Indicator



: 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	24	Engine Room No.2 Wire and Engine Room J/B (Engine Compartment Left)
2A	28	Engine Room No.2 Wire and Cowl Side J/B LH (Left Kick Panel)
2D	28	Dash Wire and Cowl Side J/B LH (Left Kick Panel)
2E		
2Q	30	Instrument Panel Integration Wire and Cowl Side J/B LH (Left Kick Panel)
3E	40	Dash Wire and Cowl Side J/B RH (Right Kick Panel)
3M	43	
3P		
3Q	42	Instrument Panel Integration Wire and Cowl Side J/B RH (Right Kick Panel)
4A	52	Dash Wire and J/B No.4 (Instrument Panel Center)
4C		
4D		
4E		
4F		
5C	56	Dash Wire and J/B No.5 (Behind the Combination Meter)
5D	56	Engine Room No.2 Wire and J/B No.5 (Behind the Combination Meter)
6C	60	Dash Wire and J/B No.6 (Behind the Grove Box)
6D	60	Engine Wire and J/B No.6 (Behind the Grove Box)
7B	64	Dash Wire and J/B No.7 (Behind the Grove Box)
7D	64	Engine Room No.2 Wire and J/B No.7 (Behind the Grove Box)



: Connector Joining Wire Harness and Wire Harness

Code	See Page	Joining Wire Harness and Wire Harness (Connector Location)
EB1	76	Engine Wire and Transmission Wire (On the Transmission)
EB2		
EB3		
IG1	78	Engine Room No.2 Wire and Dash Wire (Behind the Combination Meter)
IN2	80	Engine Wire and Dash Wire (Behind the Glove Box)
IU1	82	Instrument Panel Integration Wire and Dash Wire (Behind the Glove Box)
IX1	82	Instrument Panel Integration Wire and Engine Wire (Behind the Glove Box)
Ib2	84	Dash Wire and Dash Wire (Behind the Combination Meter)
Id1	84	Dash Wire and Dash Wire (Instrument Panel Center)
Id3		
If1	84	Engine Wire and Engine Wire (Behind the Glove Box)



: Ground Points

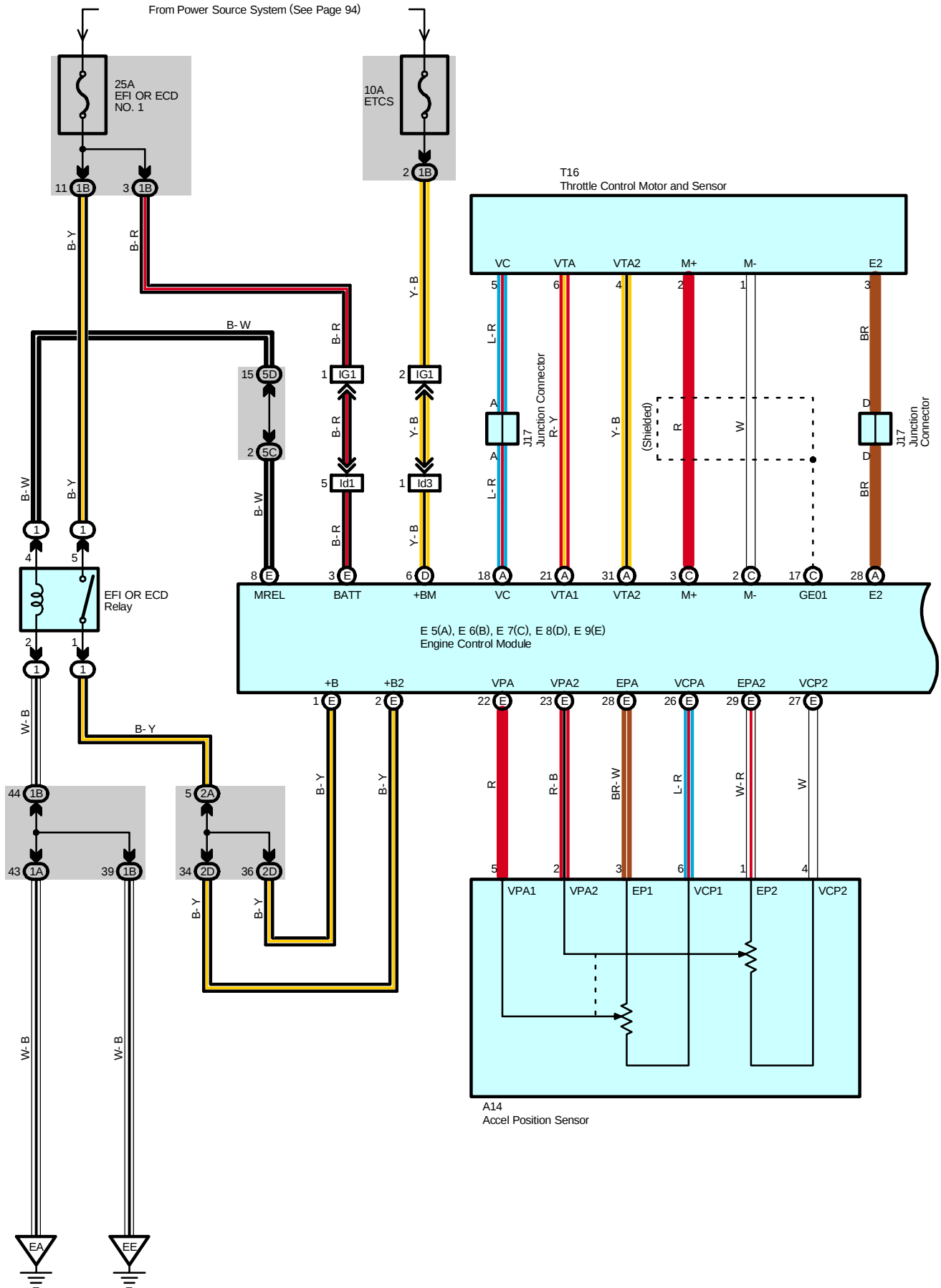
Code	See Page	Ground Points Location
EA	76	Front Right Side of Fender Apron
EC	76	Rear Bank of Right Cylinder Head
EE	76	Front Left Side of Fender Apron
IF	78	Set Bolt of Cowl Side J/B LH

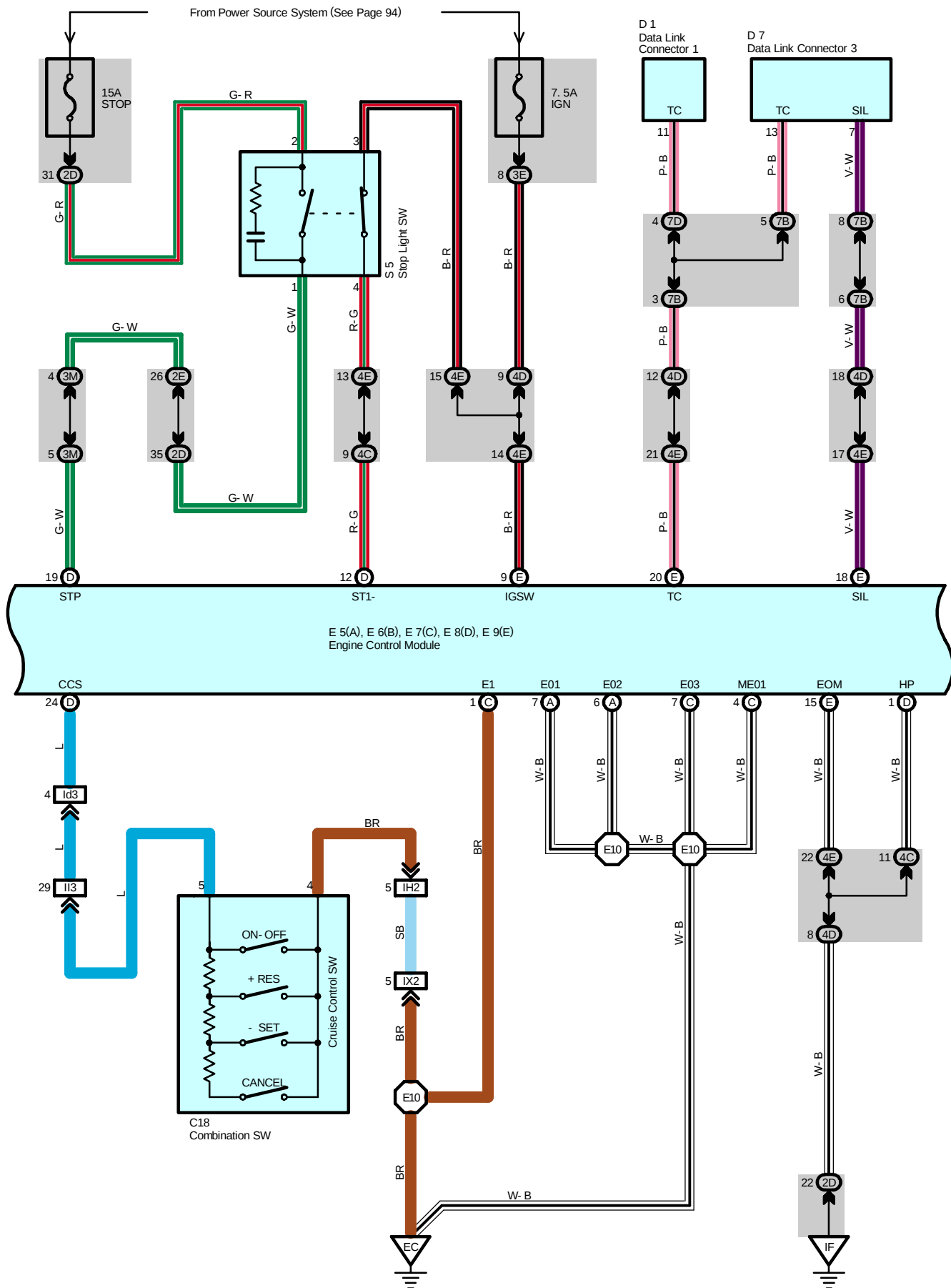


: Splice Points

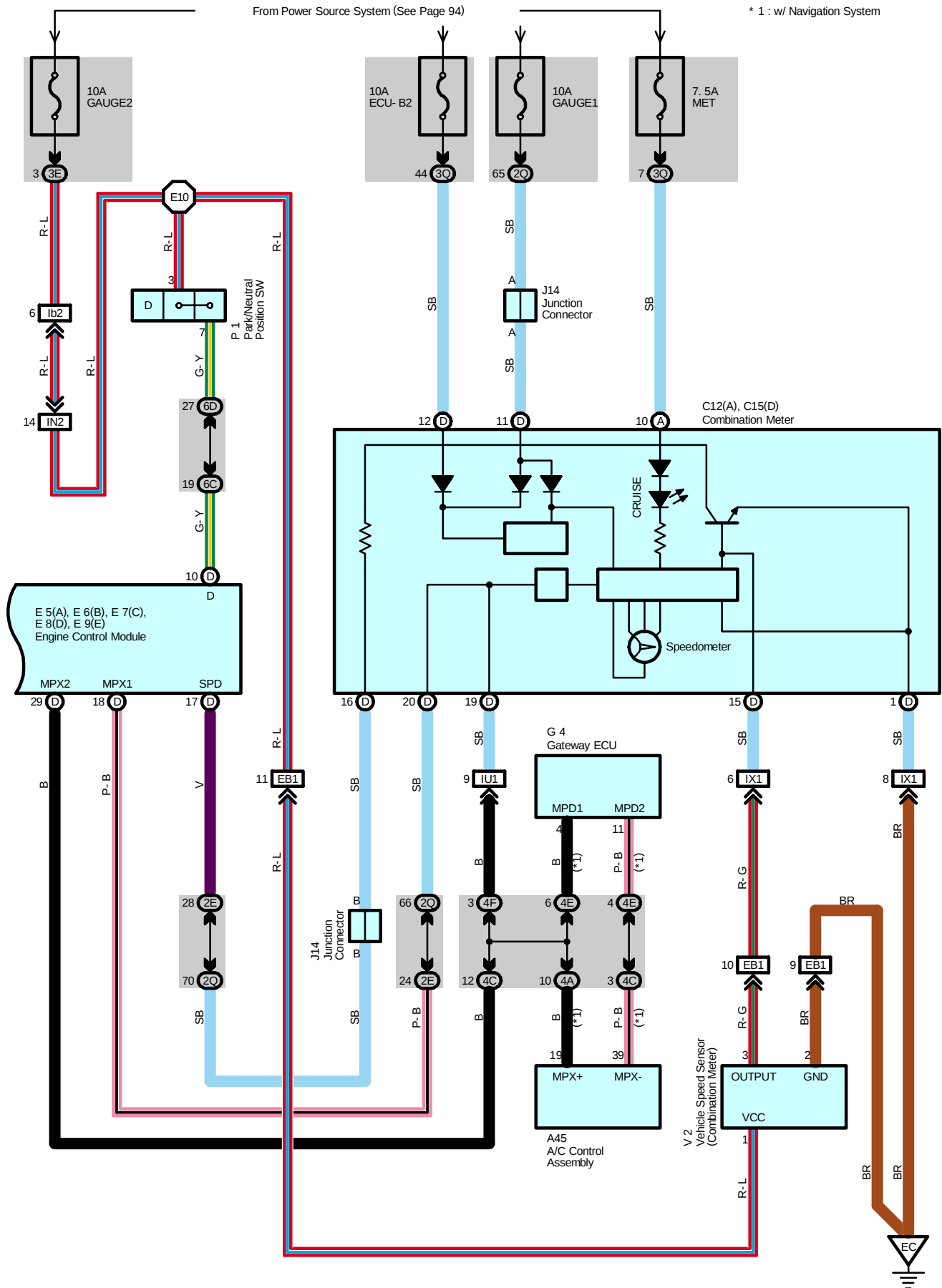
Code	See Page	Wire Harness with Splice Points	Code	See Page	Wire Harness with Splice Points
E8	76	Transmission Wire	E10	76	Engine Wire
E9					

Cruise Control





Cruise Control



System Outline

The cruise control system is a constant vehicle speed controller which controls the opening angle of the engine throttle valve by the SW, and allows driving at a constant speed without depressing the accelerator pedal.

Set Operation

When the ON-OFF SW is turned on, the systems starts preparations for cruise control and turns on the indicator light in the combination meter.

Set Speed Control

When the - SET SW is operated with the ON-OFF SW turned on during driving, the speed is controlled at a constant speed.

Coast Control

When the - SET SW is kept turned on during cruise control driving, the engine control module controls the throttle valve to decelerate the vehicle speed.

Every time the - SET SW is turned on instantaneously, the vehicle speed is decelerated by approx. 1.5 km/h.

Accel Control

When the + RES SW is kept turned on during cruise control driving, the engine control module controls the throttle valve to accelerate the vehicle speed.

Every time the + RES SW is turned on instantaneously, the vehicle speed is accelerated by approx. 1.5 km/h.

Resume Control

If the vehicle speed is within the low speed limit (Approx. 40 km/h, 25 mph) when canceling the cruise control, operation of the + RES SW accelerates the vehicle speed and resumes the level before canceling the cruise control.

Manual Cancel Mechanism

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

- * The stop light SW is on
- * The CANCEL SW is turned on
- * The ON-OFF SW is turned off
- * Gear is shifted from D position to other positions than D.

Auto Cancel Function

If any of the following conditions are detected, the cruise control is canceled:

- * Failure in the stop light SW wiring
- * Abnormality in the vehicle speed signal
- * Malfunction in the electronically controlled throttle parts
- * When the vehicle speed gets slower than the low speed limit.
- * When the vehicle speed falls to 16 km/h less than the set speed.

Overdrive Function

The overdrive may be canceled if the vehicle travels on a upward slope during cruise control driving. When the throttle opening information indicates the hill climbing is finished after the overdrive is canceled, the vehicle returns to overdrive mode again as the overdrive return timer is completed.

Service Hints

E7 (C), E8 (D), E9 (E) Engine Control Module

BATT-E1 : Always 9.0-14.0 volts

IGSW-E1 : 9.0-14.0 volts with ignition SW at ON or ST position

STP-E1 : 9.0-14.0 volts with brake pedal is depressed
: Below 1.5 volts with brake pedal is released

C18 Combination SW

5-4 : Approx. 1540 Ω with CANCEL SW on

: Approx. 240 Ω with + RES SW on

: Approx. 630 Ω with - SET SW on

Cruise Control

: Parts Location

Code		See Page	Code		See Page	Code	See Page
A14		70	E5	A	70	J17	71
A45		70	E6	B	70	P1	69
C12	A	70	E7	C	70	S5	71
C15	D	70	E8	D	70	T16	69
C18		70	E9	E	70	V2	69
D1		68	G4		70		
D7		70	J14		71		

: 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	24	Engine Room No.2 Wire and Engine Room J/B (Engine Compartment Left)
2A	28	Engine Room No.2 Wire and Cowl Side J/B LH (Left Kick Panel)
2D	28	Dash Wire and Cowl Side J/B LH (Left Kick Panel)
2E		
2Q	30	Instrument Panel Integration Wire and Cowl Side J/B LH (Left Kick Panel)
3E	40	Dash Wire and Cowl Side J/B RH (Right Kick Panel)
3M	43	
3Q	42	Instrument Panel Integration Wire and Cowl Side J/B RH (Right Kick Panel)
4A	52	Dash Wire and J/B No.4 (Instrument Panel Center)
4C		
4D		
4E		
4F		
5C	56	Dash Wire and J/B No.5 (Behind the Combination Meter)
5D	56	Engine Room No.2 Wire and J/B No.5 (Behind the Combination Meter)
6C	60	Dash Wire and J/B No.6 (Behind the Grove Box)
6D	60	Engine Wire and J/B No.6 (Behind the Grove Box)
7B	64	Dash Wire and J/B No.7 (Behind the Grove Box)
7D	64	Engine Room No.2 Wire and J/B No.7 (Behind the Grove Box)

: Connector Joining Wire Harness and Wire Harness

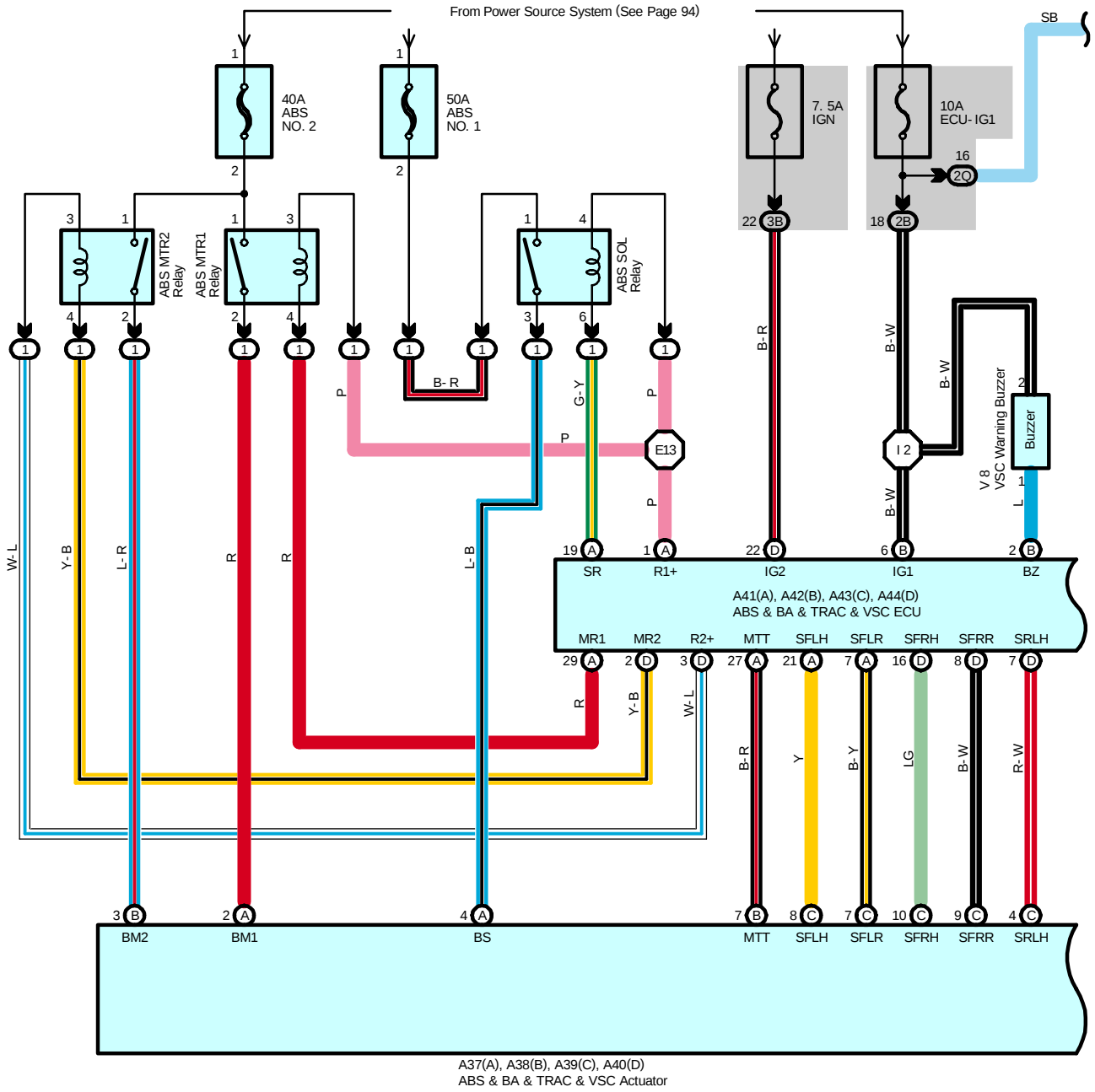
Code	See Page	Joining Wire Harness and Wire Harness (Connector Location)
EB1	76	Engine Wire and Transmission Wire (On the Transmission)
IG1	78	Engine Room No.2 Wire and Dash Wire (Behind the Combination Meter)
IH2	80	Instrument Panel Integration Wire and Column Wire (Near the Ignition SW)
II3	80	Dash Wire and Column Wire (Near the Ignition SW)
IN2	80	Engine Wire and Dash Wire (Behind the Glove Box)
IU1	82	Instrument Panel Integration Wire and Dash Wire (Behind the Glove Box)
IX1	82	Instrument Panel Integration Wire and Engine Wire (Behind the Glove Box)
IX2		
Ib2	84	Dash Wire and Dash Wire (Behind the Combination Meter)
Id1	84	Dash Wire and Dash Wire (Instrument Panel Center)
Id3		

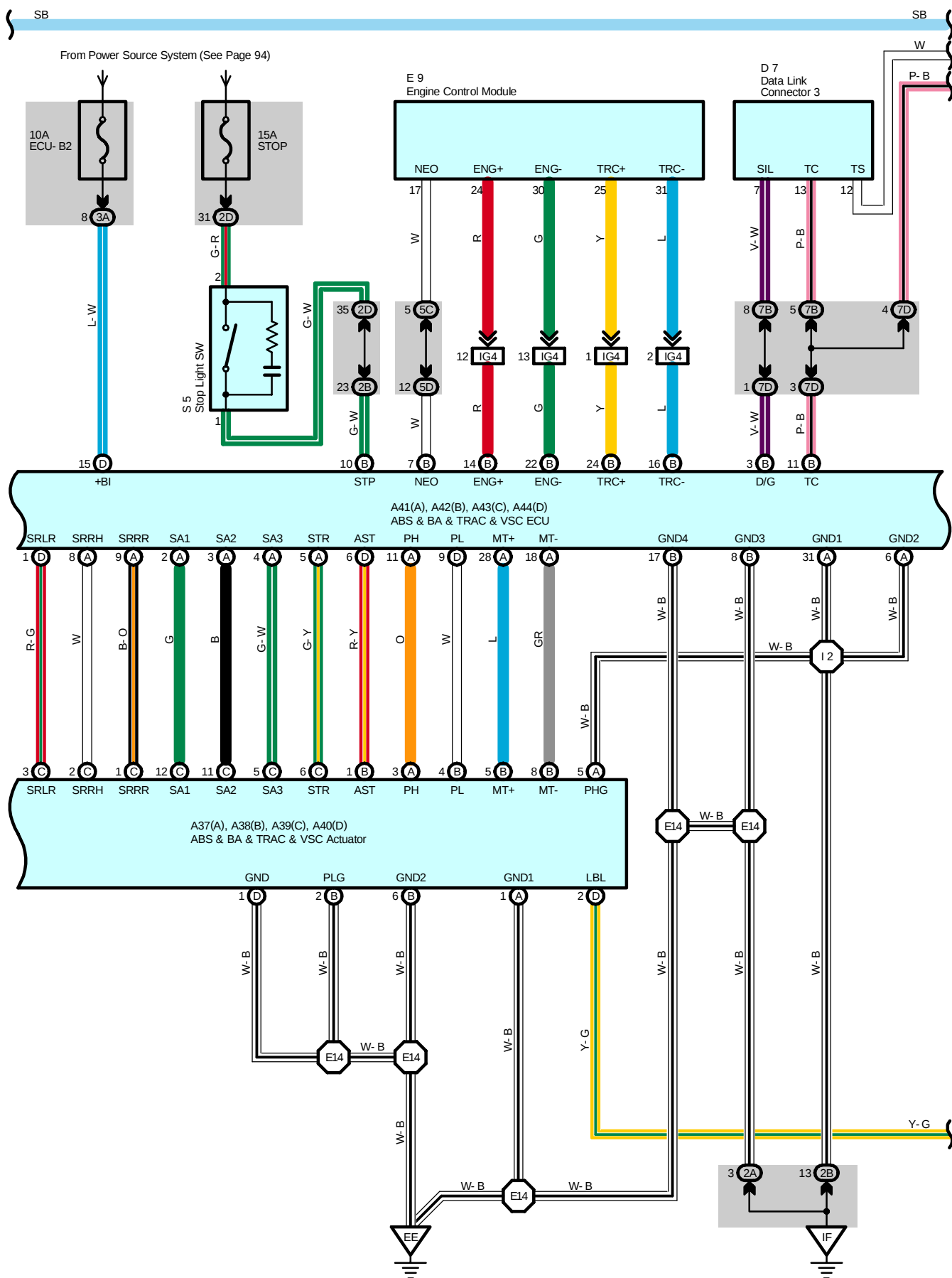
**: Ground Points**

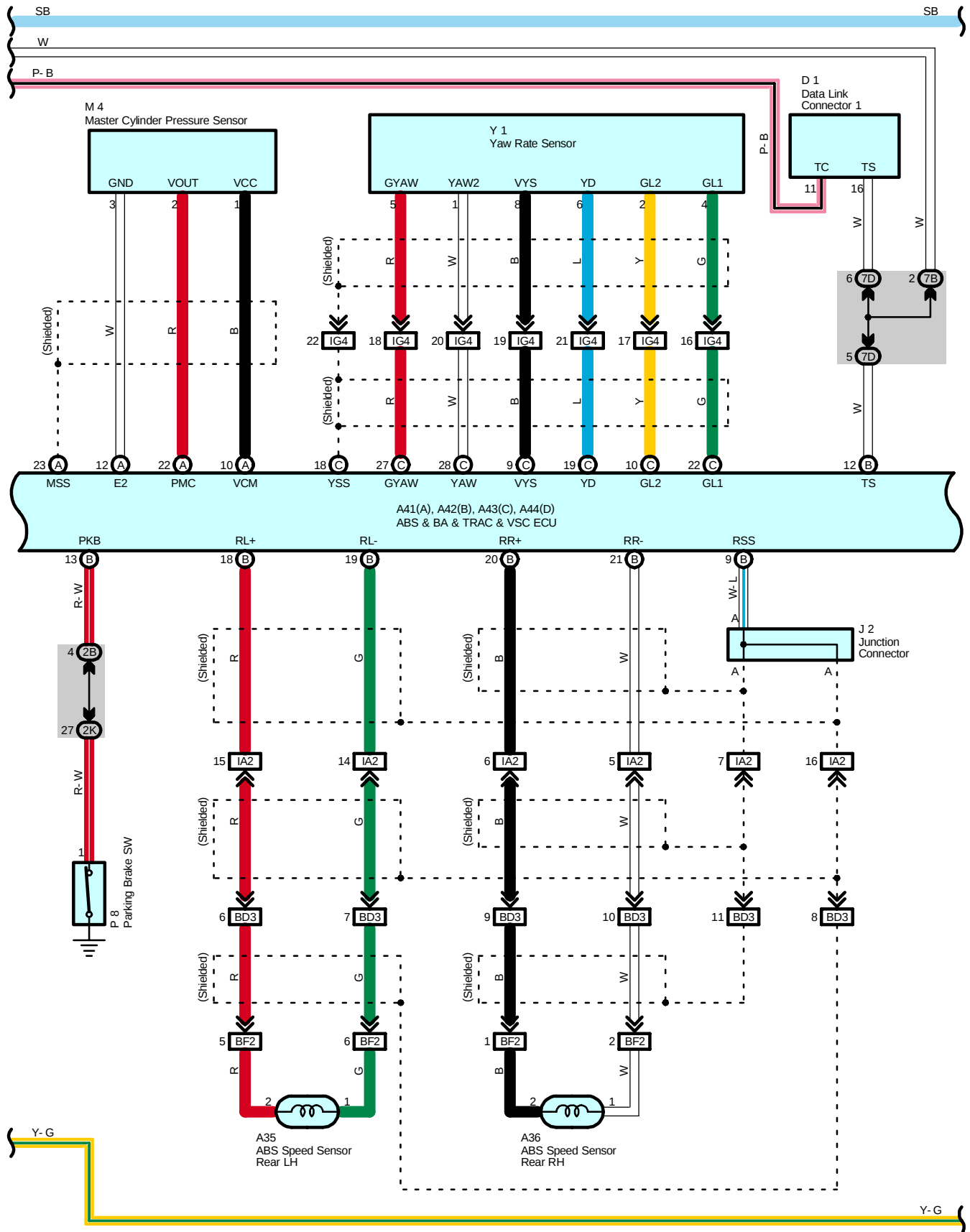
Code	See Page	Ground Points Location
EA	76	Front Right Side of Fender Apron
EC	76	Rear Bank of Right Cylinder Head
EE	76	Front Left Side of Fender Apron
IF	78	Set Bolt of Cowl Side J/B LH

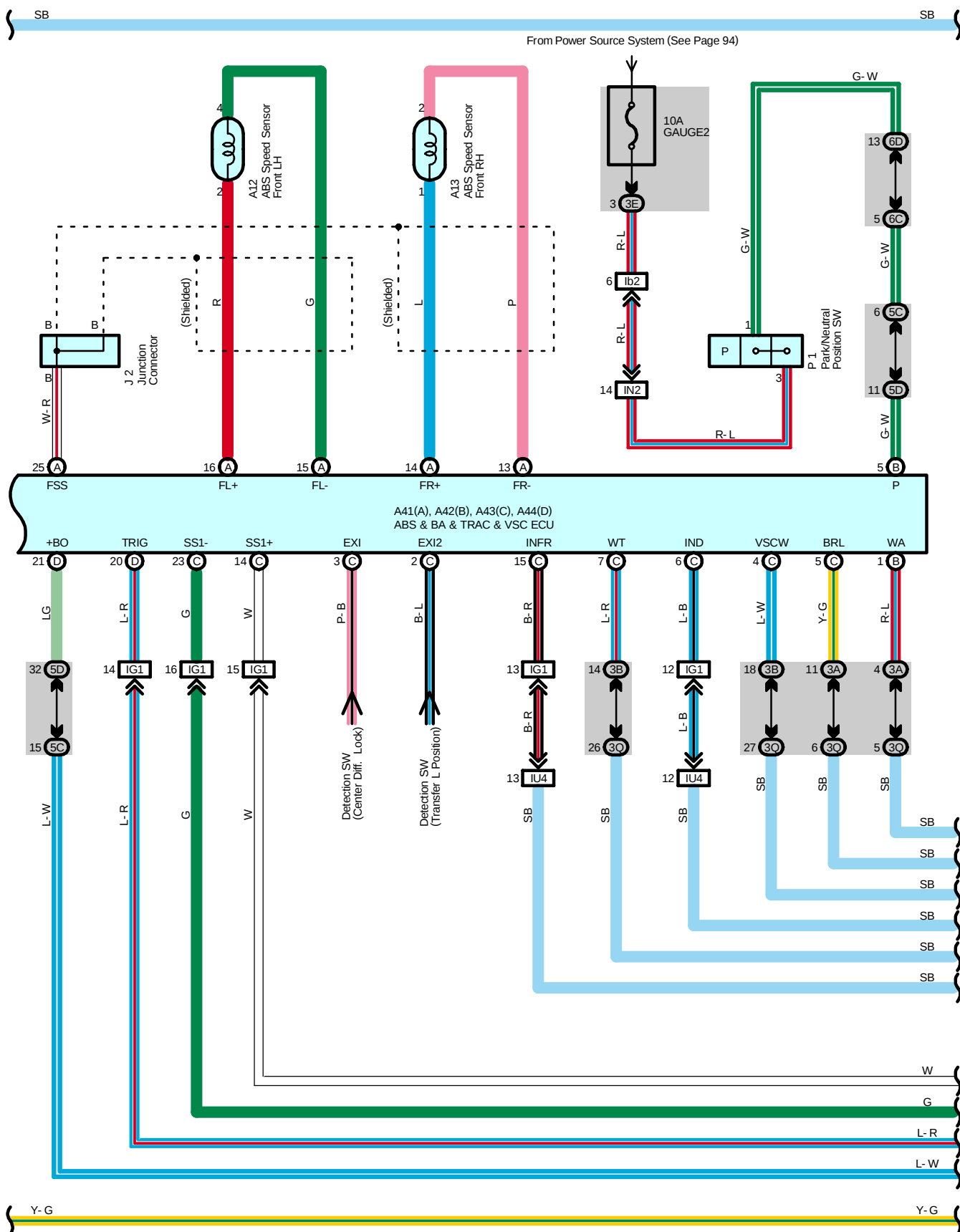
**: Splice Points**

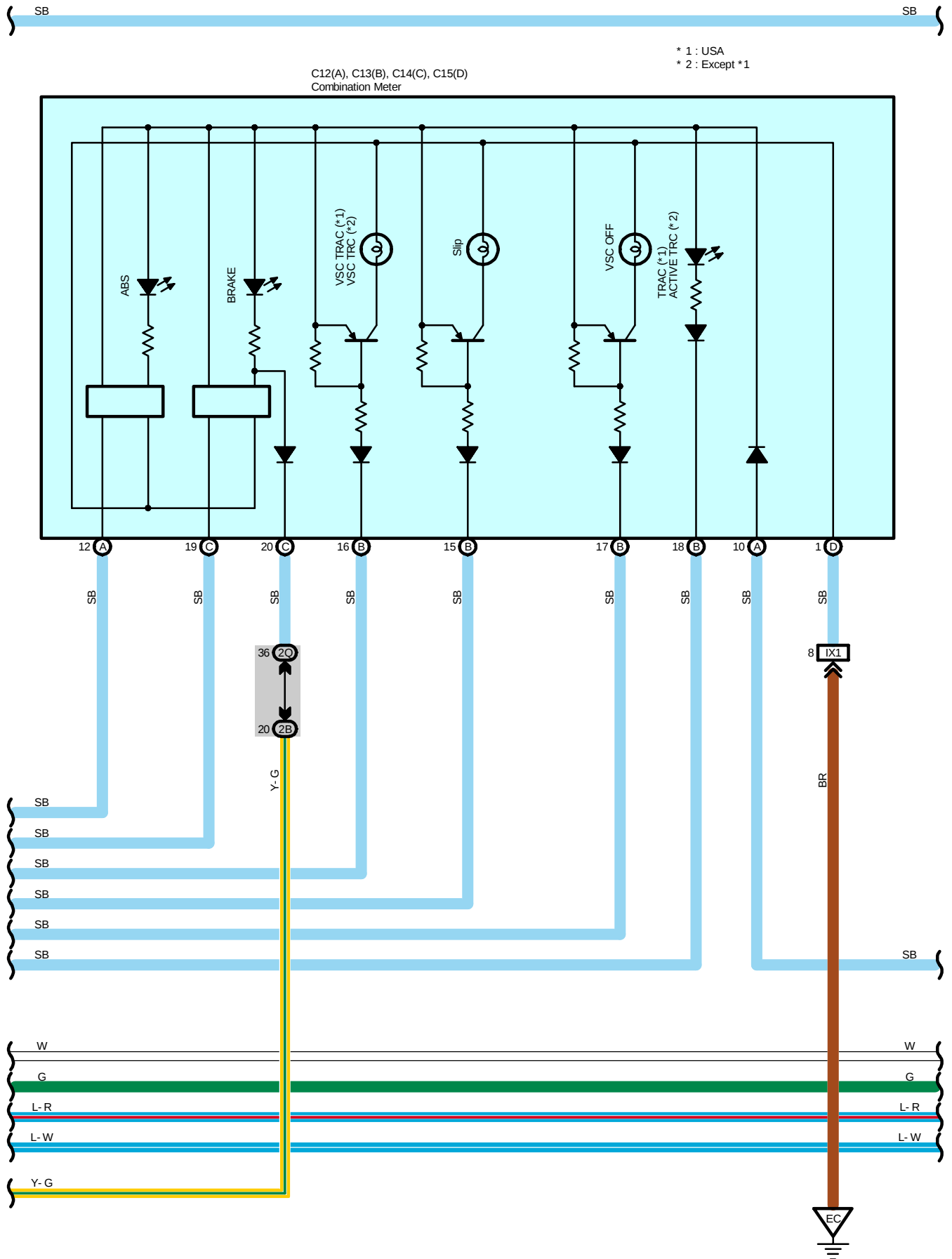
Code	See Page	Wire Harness with Splice Points	Code	See Page	Wire Harness with Splice Points
E10	76	Engine Wire			

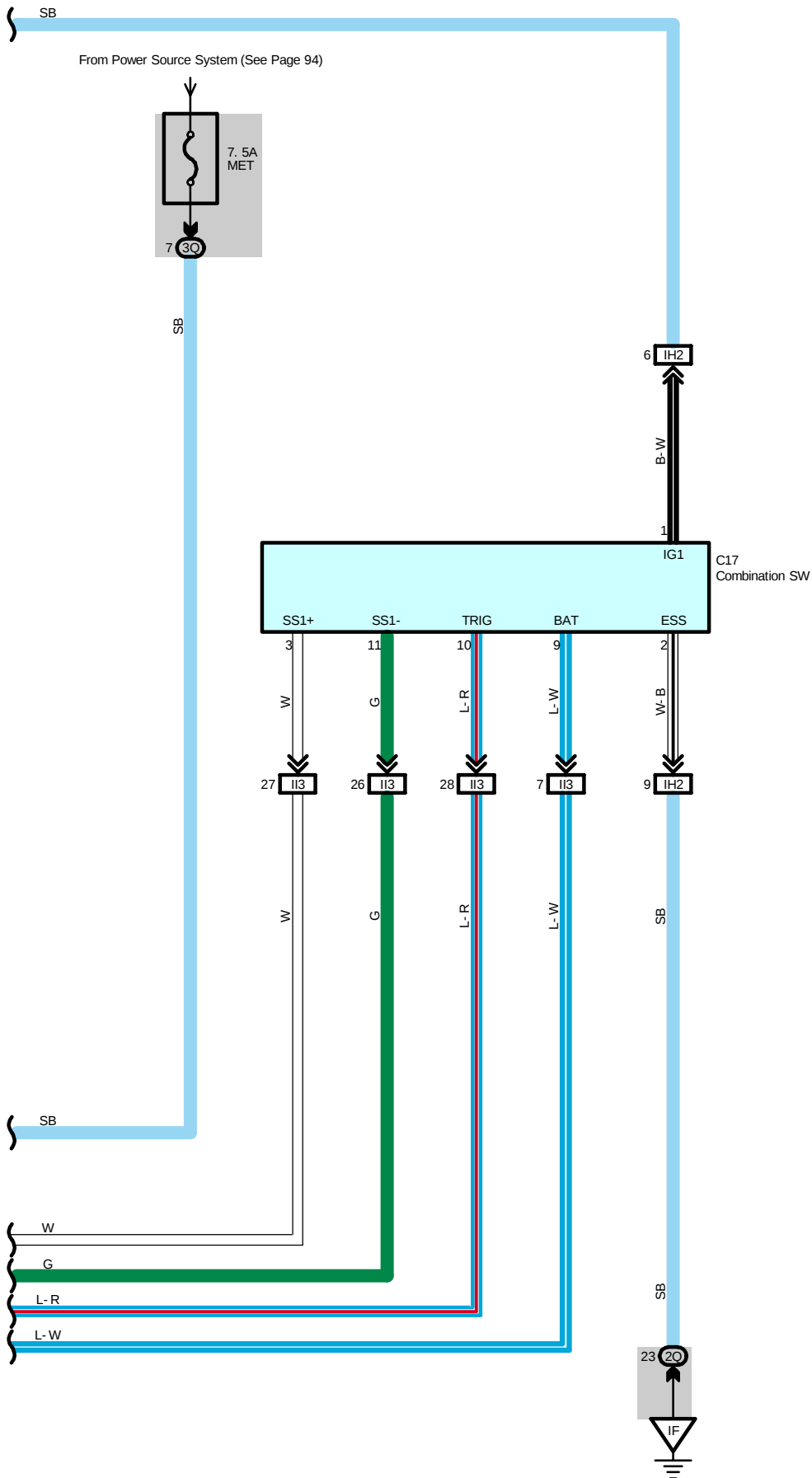












System Outline

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 ABS & BA & TRAC & VSC 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 ABS & BA & TRAC & VSC 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.

VSC indicator light

If an error occurs in the VSC system, the VSC indicator lights up to warn the driver.

4. Traction Mode and VSC Function

When the center differential of the transfer is locked, the VSC function is turned off. At this time, the VSC OFF indicator light in the combination meter will come on, and informs the driver that the VSC function is OFF.

5. Mutual System Control

To efficiently operate the VSC system at its optimal level, the VSC system and other control systems are mutually controlled while the VSC system is being operated.

Engine throttle control

The engine power does not interfere with the VSC brake control by controlling the opening of the throttle and reducing the engine output.

Engine control and electronically controlled transmission control

The strong braking force does not interfere with the braking force control of the VSC system by turning off the accel. and reducing changes in the driving torque at shift-down.

VSC system operation indication

The slip indicator light flashes and the buzzer sounds intermittently to warn the driver that the current road is slippery, while the VSC system is being operated.

6. Fail Safe Function

If an error occurs in the ABS & BA & TRAC & VSC ECU, sensor signals, and/or actuators, the ABS & BA & TRAC & VSC 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 without the ABS, BA, TRAC, and VSC systems.

Service Hints

A41 (A), A42 (B), A44 (D) ABS & BA & TRAC & VSC ECU

(D)15-Ground : Always approx. 12 volts
 (B) 6-Ground : Approx. 12 volts with ignition SW at ON or ST position
 (D)22-Ground : Approx. 12 volts with ignition SW at ON or ST position
 (B)10-Ground : Approx. 12 volts with brake pedal depressed
 (A) 6, (A) 31, (B) 8, (B) 17-Ground : Always continuity

A12 ABS Speed Sensor Front LH

2-4 : Approx. 1.07 kΩ (20 °C, 68 °F)

A13 ABS Speed Sensor Front RH

1-2 : Approx. 1.07 kΩ (20 °C, 68 °F)

A35, A36 ABS Speed Sensor Rear LH, RH

1-2 : Approx. 1.2 kΩ (25 °C, 77 °F)

○ : Parts Location

Code	See Page	Code	See Page	Code	See Page
A12	68	A42	70	D7	70
A13	68	A43	70	E9	70
A35	72	A44	70	J2	71
A36	72	C12	70	M4	69
A37	68	C13	70	P1	69
A38	68	C14	70	P8	73
A39	68	C15	70	S5	71
A40	68	C17	70	V8	71
A41	70	D1	68	Y1	71

○ : 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)
2A	28	Engine Room No.2 Wire and Cowl Side J/B LH (Left Kick Panel)
2B		
2D	28	Dash Wire and Cowl Side J/B LH (Left Kick Panel)
2K	28	Floor No.1 Wire and Cowl Side J/B LH (Left Kick Panel)
2Q	30	Instrument Panel Integration Wire and Cowl Side J/B LH (Left Kick Panel)
3A	40	Engine Room No.2 Wire and Cowl Side J/B RH (Right Kick Panel)
3B		
3E	40	Dash Wire and Cowl Side J/B RH (Right Kick Panel)
3Q	42	Instrument Panel Integration Wire and Cowl Side J/B RH (Right Kick Panel)
5C	56	Dash Wire and J/B No.5 (Behind the Combination Meter)
5D	56	Engine Room No.2 Wire and J/B No.5 (Behind the Combination Meter)
6C	60	Dash Wire and J/B No.6 (Behind the Grove Box)
6D	60	Engine Wire and J/B No.6 (Behind the Grove Box)
7B	64	Dash Wire and J/B No.7 (Behind the Grove Box)
7D	64	Engine Room No.2 Wire and J/B No.7 (Behind the Grove Box)

: Connector Joining Wire Harness and Wire Harness

Code	See Page	Joining Wire Harness and Wire Harness (Connector Location)
IA2	78	Engine Room No.2 Wire and Floor No.1 Wire (Left Kick Panel)
IG1	78	Engine Room No.2 Wire and Dash Wire (Behind the Combination Meter)
IG4		
IH2	80	Instrument Panel Integration Wire and Column Wire (Near the Ignition SW)
II3	80	Dash Wire and Column Wire (Near the Ignition SW)
IN2	80	Engine Wire and Dash Wire (Behind the Glove Box)
IU4	82	Instrument Panel Integration Wire and Dash Wire (Behind the Glove Box)
IX1	82	Instrument Panel Integration Wire and Engine Wire (Behind the Glove Box)
Ib2	84	Dash Wire and Dash Wire (Behind the Combination Meter)
BD3	86	Floor No.3 Wire and Floor No.1 Wire (Left Rear Side Quarter Panel)
BF2	86	Frame Wire and Floor No.3 Wire (Left Side of Rear Floor Crossmember)

: Ground Points

Code	See Page	Ground Points Location
EC	76	Rear Bank of Right Cylinder Head
EE	76	Front Left Side of Fender Apron
IF	78	Set Bolt of Cowl Side J/B LH

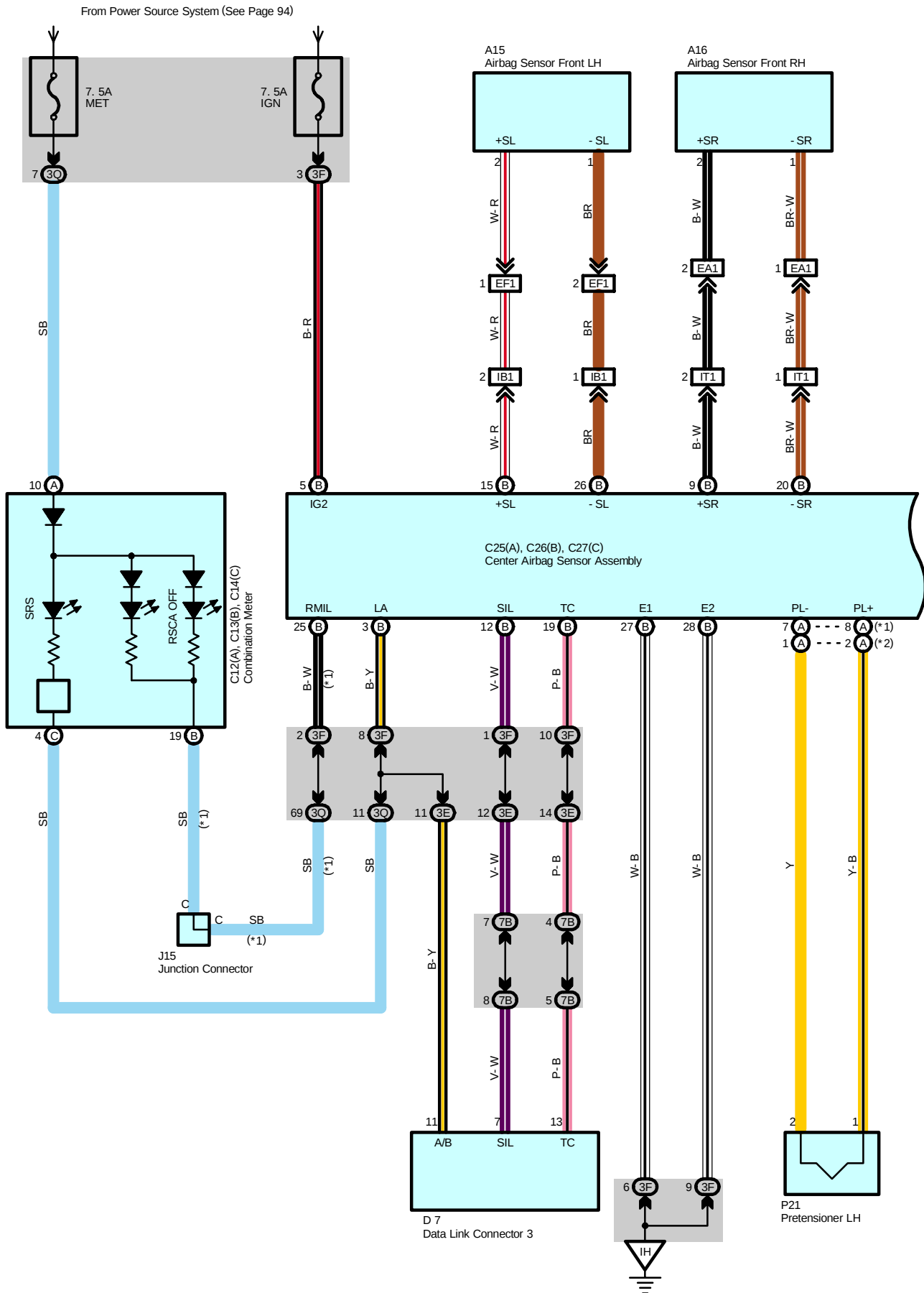
: Splice Points

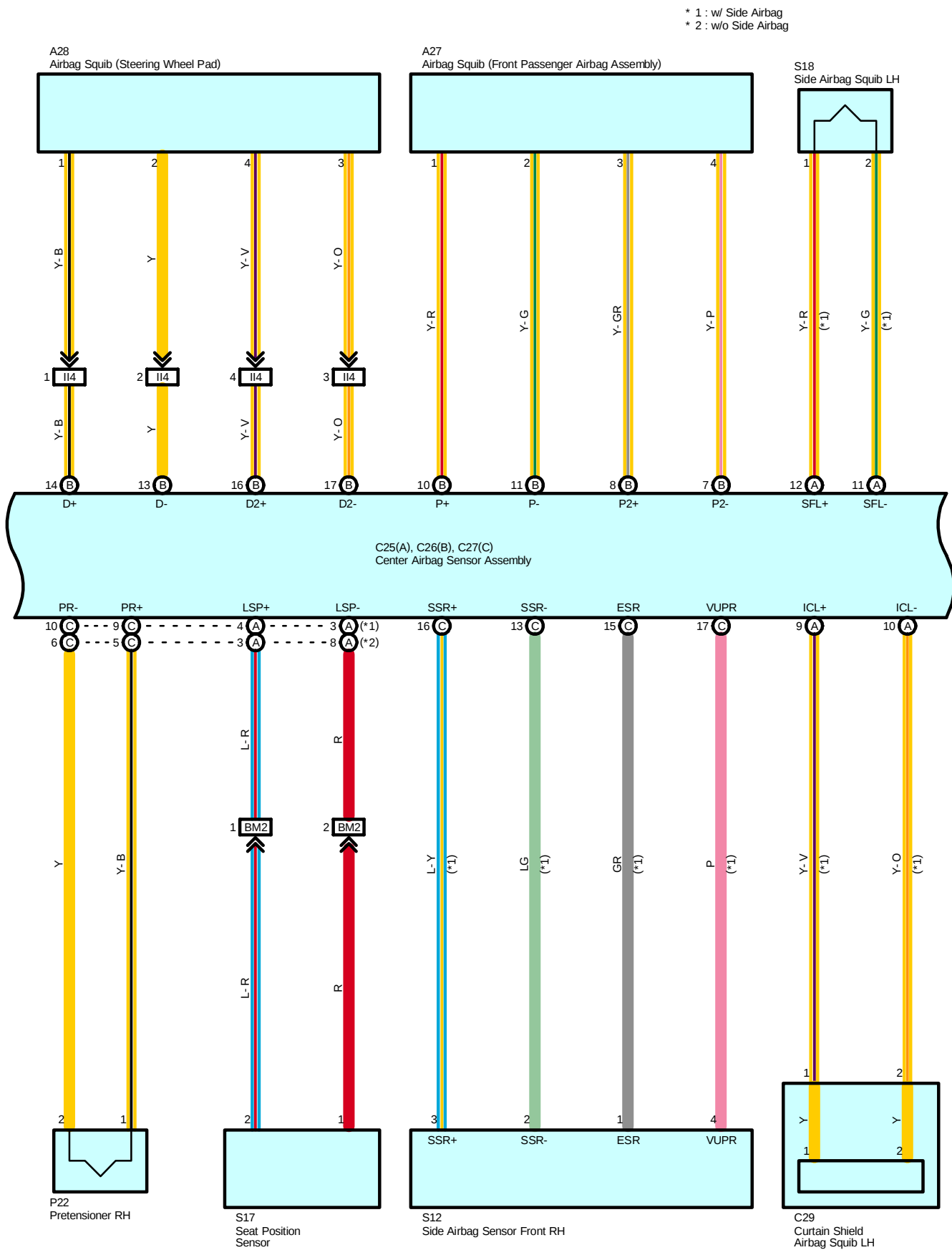
Code	See Page	Wire Harness with Splice Points	Code	See Page	Wire Harness with Splice Points
E13	76	Engine Room No.2 Wire	I2	80	Engine Room No.2 Wire
E14					

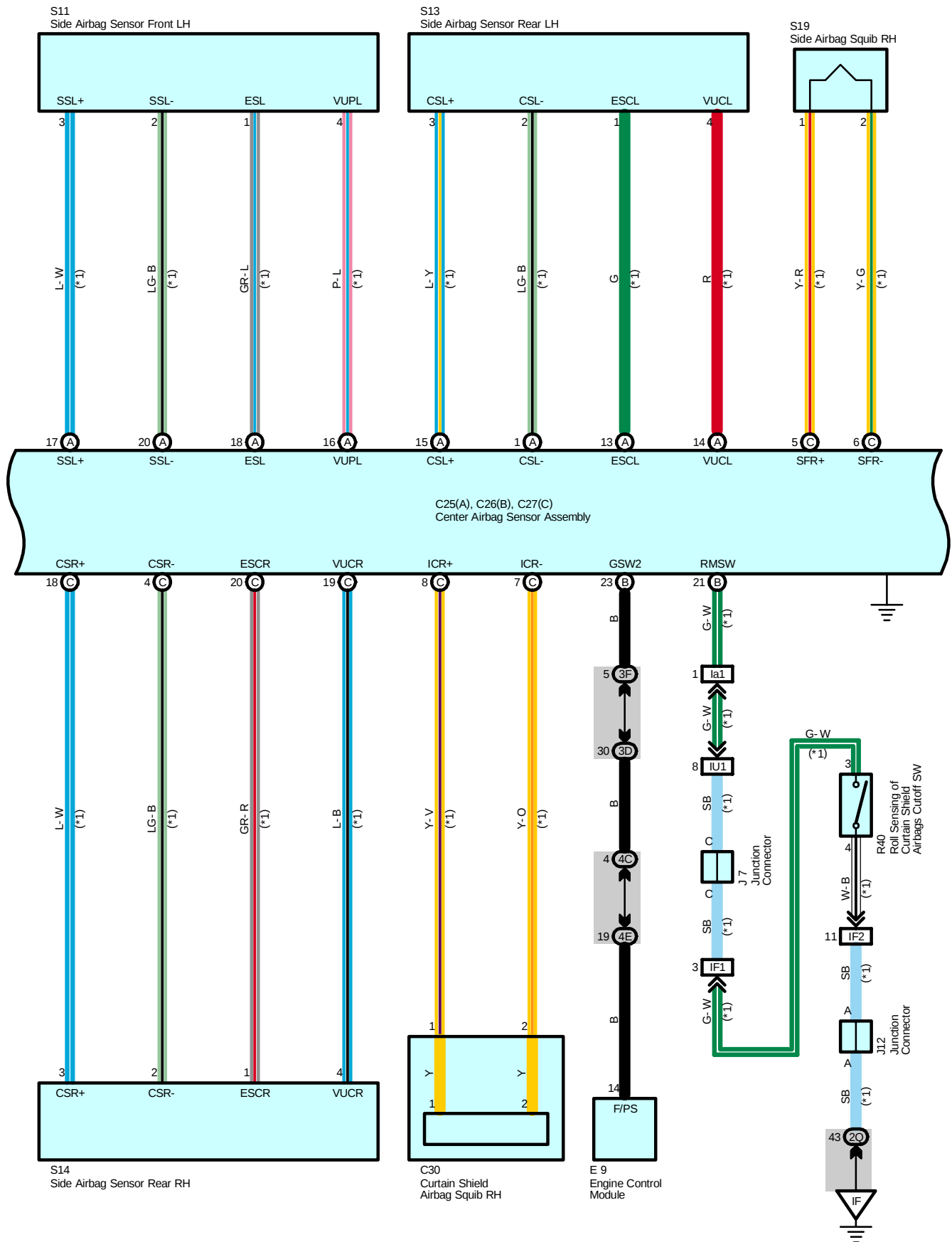
NOTICE: When inspecting or repairing the SRS, perform service in accordance with the following precautionary instructions and the procedure, and precautions in the Repair Manual applicable for the model year.

- 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 ignition SW is turned to the "LOCK" position and the negative (-) terminal cable is disconnected from the battery.**
(The SRS is equipped with a back-up power source so that if work is started within 90 seconds from disconnecting the negative (-) terminal cable of the battery, the SRS may 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.

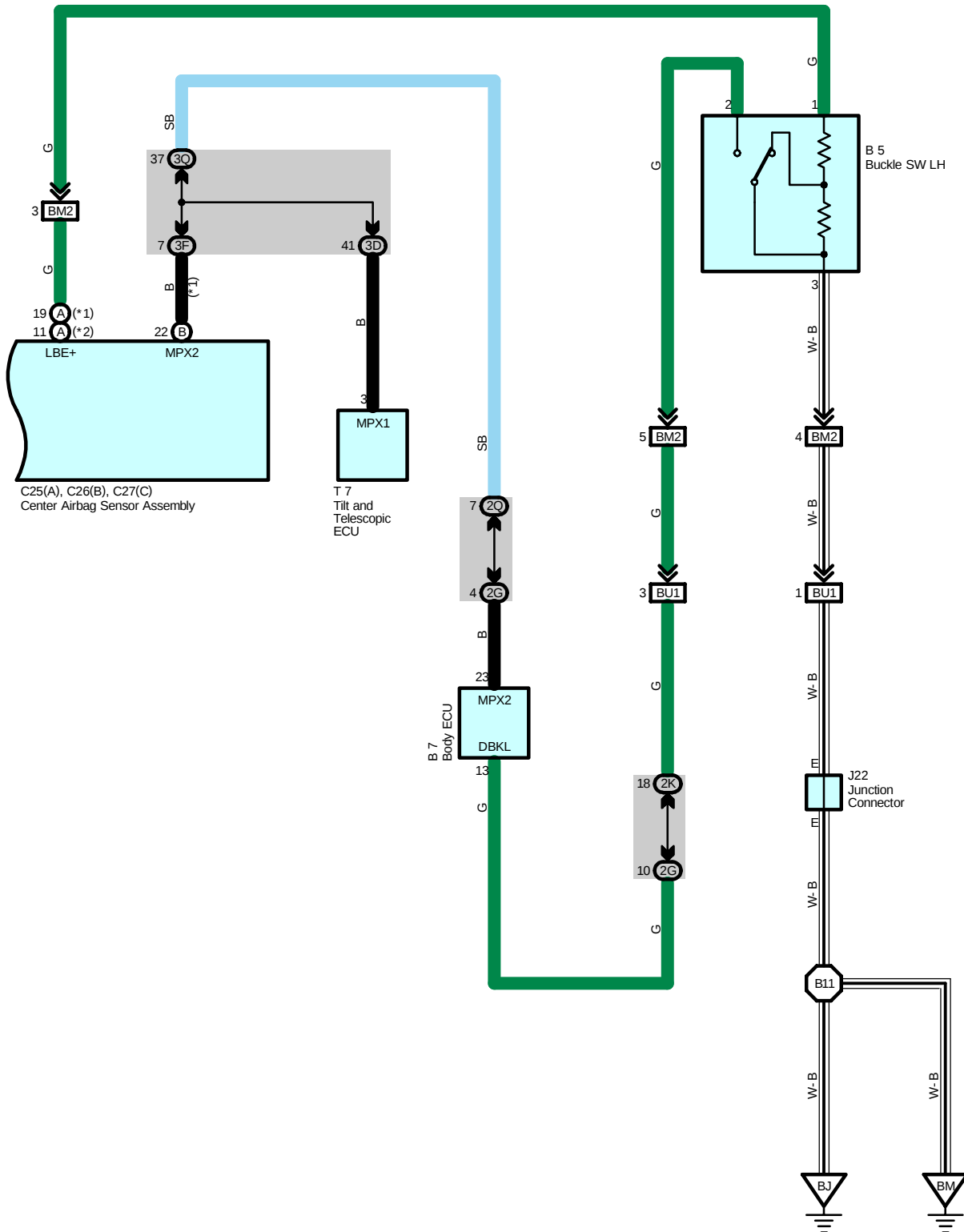
- * Steering wheel pad
- * Front passenger airbag assembly
- * Side airbag assembly
- * Curtain shield airbag assembly
- * Seat belt pretensioner
- * Center airbag sensor assembly
- * Front airbag sensor assembly
- * Side airbag sensor assembly
- * Rear airbag sensor assembly







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



System Outline

- * The SRS airbag are provided for the driver and front passenger. The SRS airbags have been designed to help reducing the shocks to the heads and chests of the driver and front passenger in the event of a severe frontal impact collision as supplements to the seat belts.
This system is a 3-sensor type airbag system to detect the impact during a front collision using the center airbag sensor assembly and airbag sensor front LH, RH, and to make the airbag system and pretensioner operate as well.
- * In this system, a front side collision is detected by the side airbag sensor front LH, RH in order to simultaneously deploy the side and curtain shield airbags. A rear side collision is detected by the side airbag sensor rear LH, RH in order to deploy only the curtain shield airbag.
- * Roll sensing of curtain shield airbags control has been adopted in order to deploy the curtain shield airbags and the pretensioners for the driver and front passenger, in the event that the vehicle rolls over.
A roll sensing of curtain shield airbags cutoff SW is provided on the driver side of the instrument panel to enable the driver to disable this system.
- * Dual-stage SRS airbags system, that controls the airbag inflating output optimum by judging the extent of impact and seat position (Driver seat), has been used for the driver and front passenger airbags.
- * In accordance with the adoption of the dual-stage SRS airbag system, a seat position sensor has been established for the driver seat.
- * This system has adopted a fuel cut control that stops the fuel pump when the airbag is deployed.

○ : Parts Location

Code		See Page	Code		See Page	Code	See Page
A15		68	C27	C	70	R40	71
A16		68	C29		72	S11	73
A27		70	C30		72	S12	73
A28		70	D7		70	S13	73
B5		74	E9		70	S14	73
B7		70	J7		71	S17	74
C12	A	70	J12		71	S18	74
C13	B	70	J15		71	S19	74
C14	C	70	J22		72	T7	71
C25	A	70	P21		73		
C26	B	70	P22		73		

○ : Junction Block and Wire Harness Connector

Code	See Page	Junction Block and Wire Harness (Connector Location)
2G	28	Dash Wire and Cowl Side J/B LH (Left Kick Panel)
2K	28	Floor No.1 Wire and Cowl Side J/B LH (Left Kick Panel)
2Q	30	Instrument Panel Integration Wire and Cowl Side J/B LH (Left Kick Panel)
3D	40	Dash Wire and Cowl Side J/B RH (Right Kick Panel)
3E		
3F		
3Q	42	Instrument Panel Integration Wire and Cowl Side J/B RH (Right Kick Panel)
4C	52	Dash Wire and J/B No.4 (Instrument Panel Center)
4E		
7B	64	Dash Wire and J/B No.7 (Behind the Grove Box)

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

Code	See Page	Joining Wire Harness and Wire Harness (Connector Location)
EA1	76	Engine Room Main Wire and Engine Room No.2 Wire (Engine Compartment Right)
EF1	76	Engine Room No.2 Wire and Engine Room Main Wire (Under the Engine Room J/B)
IB1	78	Engine Room No.2 Wire and Dash Wire (Left Kick Panel)
IF1	78	Instrument Panel Integration Wire and Instrument Panel Wire (Left Side of Instrument Panel)
IF2		
II4	80	Dash Wire and Column Wire (Near the Ignition SW)
IT1	80	Engine Room No.2 Wire and Dash Wire (Right Kick Panel)
IU1	82	Instrument Panel Integration Wire and Dash Wire (Behind the Glove Box)
Ia1	84	Dash Wire and Dash Wire (Behind the Combination Meter)
BM2	90	Floor No.1 Wire and Front Seat LH Wire (Front Side Under the Driver's Seat)
BU1	88	Floor No.1 Wire and Floor No.1 Wire (Near the Left Rear Suspension Support)

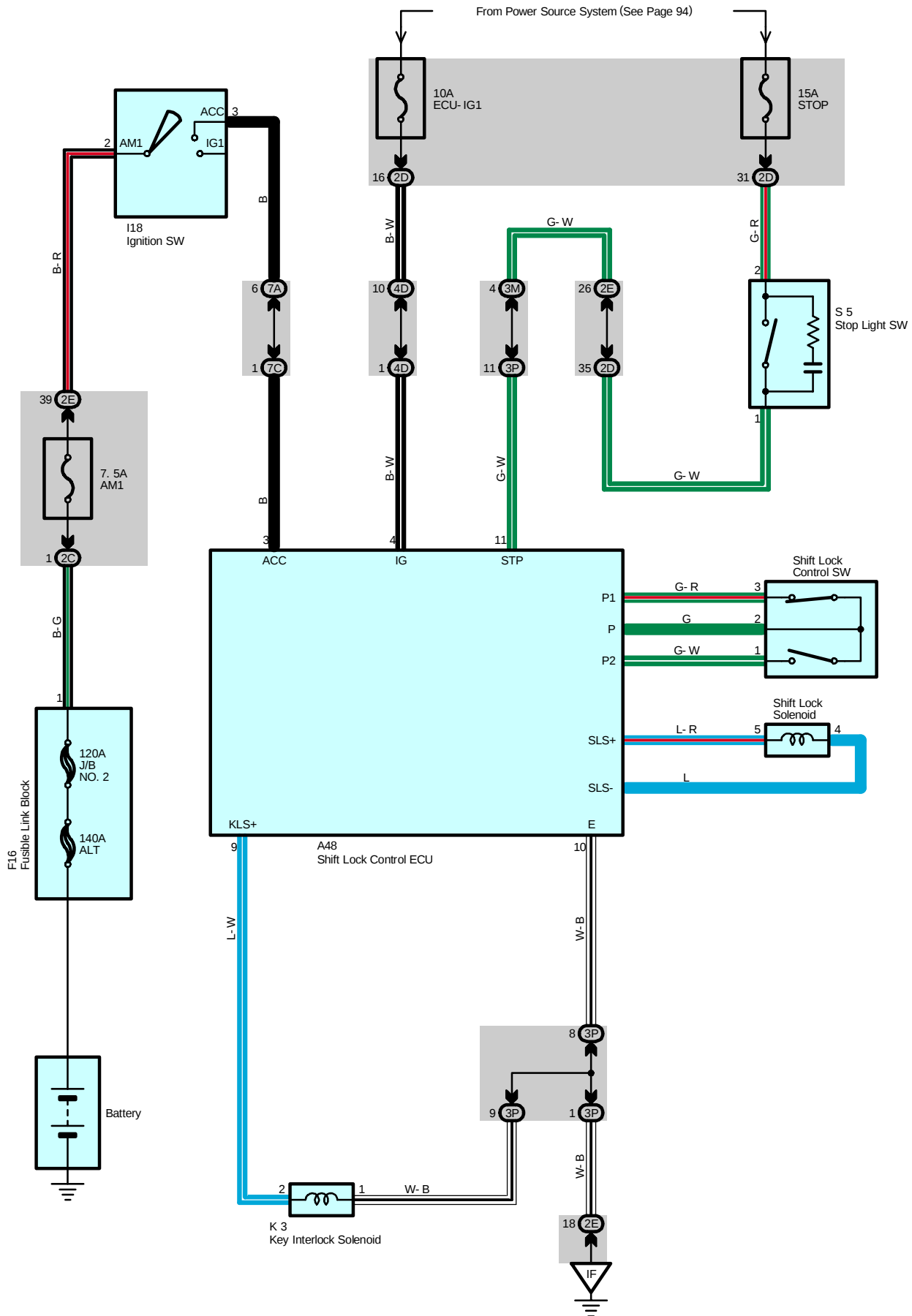
 : **Ground Points**

Code	See Page	Ground Points Location
IF	78	Set Bolt of Cowl Side J/B LH
IH	78	Set Bolt of Cowl Side J/B RH
BJ	86	Under the Driver's Seat
BM	86	Left Rear Side Quarter Panel

 : **Splice Points**

Code	See Page	Wire Harness with Splice Points	Code	See Page	Wire Harness with Splice Points
B11	88	Floor No.1 Wire			

Shift Lock



System Outline

1. Shift Lock Mechanism

When the brake pedal is depressed with the ignition SW is turned on (Stop light SW on), the shift lock control ECU is activated and allows the driver to change the shift lever to a position other than P position.

2. Key Interlock Mechanism

When the ignition SW is turned on and the shift lever is at a position other than P position, shift lock control ECU is activated to flow current to the key interlock solenoid. This inhibits to turn the ignition SW from on to OFF position.

Service Hints

A48 Shift Lock Control ECU

3-Ground : Approx. 12 volts with ignition SW at ACC or ON position

4-Ground : Approx. 12 volts with ignition SW at ON or ST position

11-Ground : Approx. 12 volts with brake pedal depressed

10-Ground : Always continuity

○ : Parts Location

Code	See Page	Code	See Page	Code	See Page
A48	70	I18	70	S5	71
F16	68	K3	71		

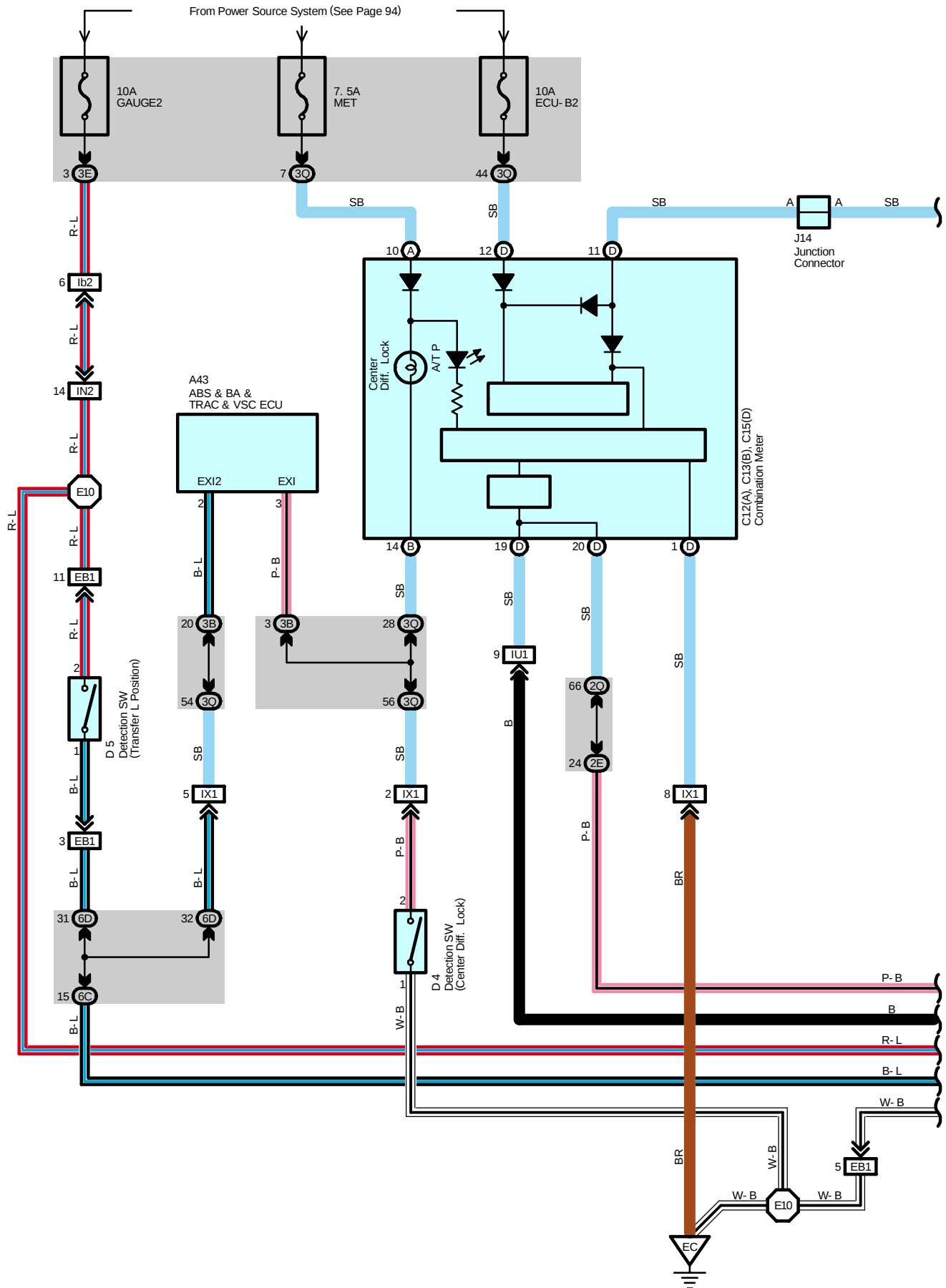
○ : Junction Block and Wire Harness Connector

Code	See Page	Junction Block and Wire Harness (Connector Location)
2C	28	Dash Wire and Cowl Side J/B LH (Left Kick Panel)
2D		
2E		
3M	43	Dash Wire and Cowl Side J/B RH (Right Kick Panel)
3P		
4D	52	Dash Wire and J/B No.4 (Instrument Panel Center)
7A	64	Dash Wire and J/B No.7 (Behind the Glove Box)
7C		

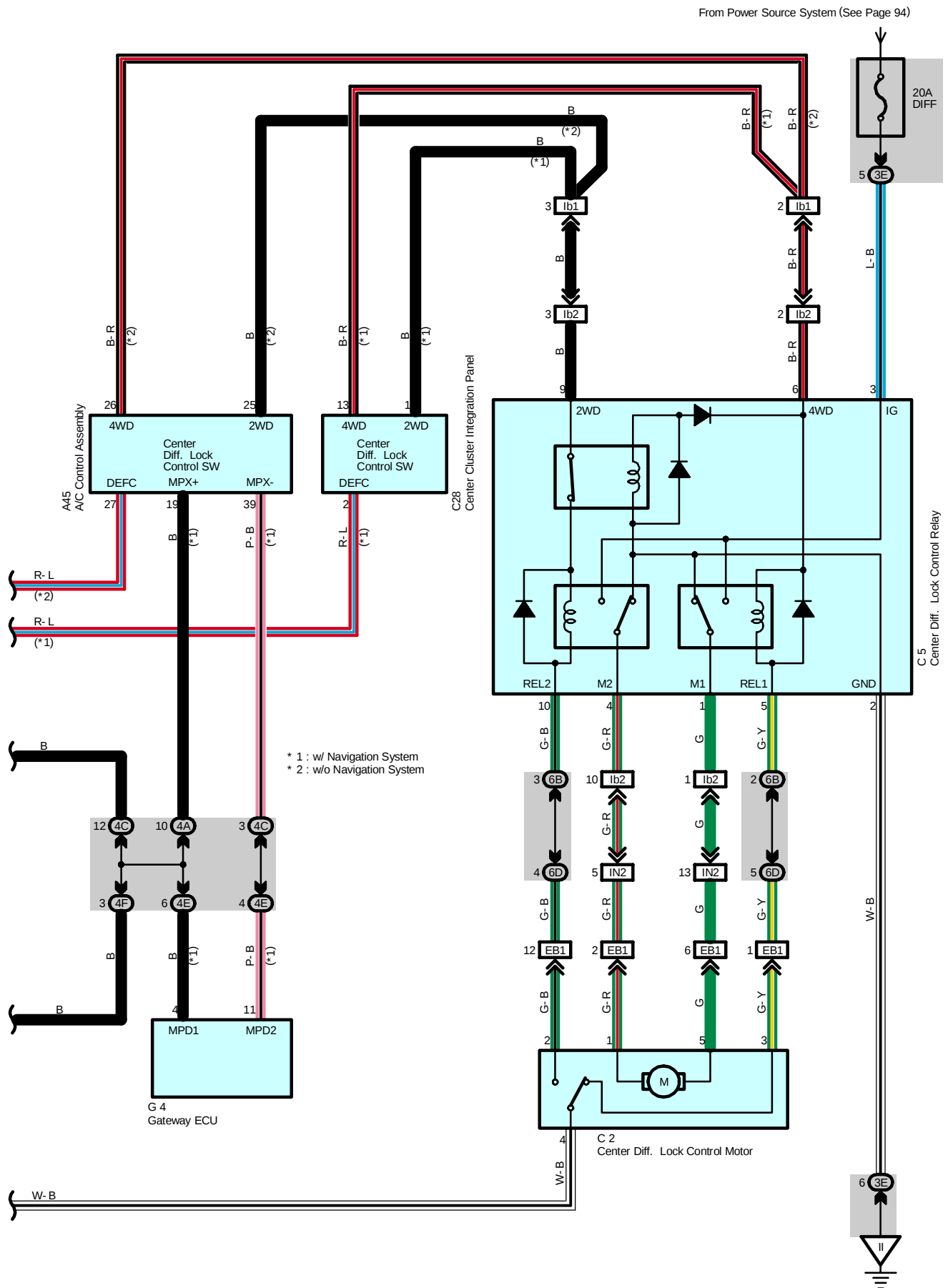
▽ : Ground Points

Code	See Page	Ground Points Location
IF	78	Set Bolt of Cowl Side J/B LH

Center Differential Lock



Center Differential Lock



Service Hints

C5 Center Diff. Lock Control Relay

3-Ground : Approx. 12 volts with ignition SW at ON or ST position

2-Ground : Always continuity

: Parts Location

Code	See Page	Code	See Page	Code	See Page
A43	70	C13	B 70	E7	C 70
A45	70	C15	D 70	E8	D 70
B8	70	C28	70	E9	E 70
C2	68	D4	68	G4	70
C5	70	D5	68	J14	71
C12	A 70	D6	68	P1	69

: Junction Block and Wire Harness Connector

Code	See Page	Junction Block and Wire Harness (Connector Location)
2D	28	Dash Wire and Cowl Side J/B LH (Left Kick Panel)
2E		
2Q		Instrument Panel Integration Wire and Cowl Side J/B LH (Left Kick Panel)
3B	40	Engine Room No.2 Wire and Cowl Side J/B RH (Right Kick Panel)
3E	40	Dash Wire and Cowl Side J/B RH (Right Kick Panel)
3Q	42	Instrument Panel Integration Wire and Cowl Side J/B RH (Right Kick Panel)
4A	52	Dash Wire and J/B No.4 (Instrument Panel Center)
4C		
4D		
4E		
4F		
6B	60	Dash Wire and J/B No.6 (Behind the Grove Box)
6C		
6D	60	Engine Wire and J/B No.6 (Behind the Grove Box)

: Connector Joining Wire Harness and Wire Harness

Code	See Page	Joining Wire Harness and Wire Harness (Connector Location)
EB1	76	Engine Wire and Transmission Wire (On the Transmission)
IN2	80	Engine Wire and Dash Wire (Behind the Glove Box)
IU1	82	Instrument Panel Integration Wire and Dash Wire (Behind the Glove Box)
IU3		
IX1	82	Instrument Panel Integration Wire and Engine Wire (Behind the Glove Box)
Ib1	84	Dash Wire and Dash Wire (Behind the Combination Meter)
Ib2		
If1	84	Engine Wire and Engine Wire (Behind the Glove Box)

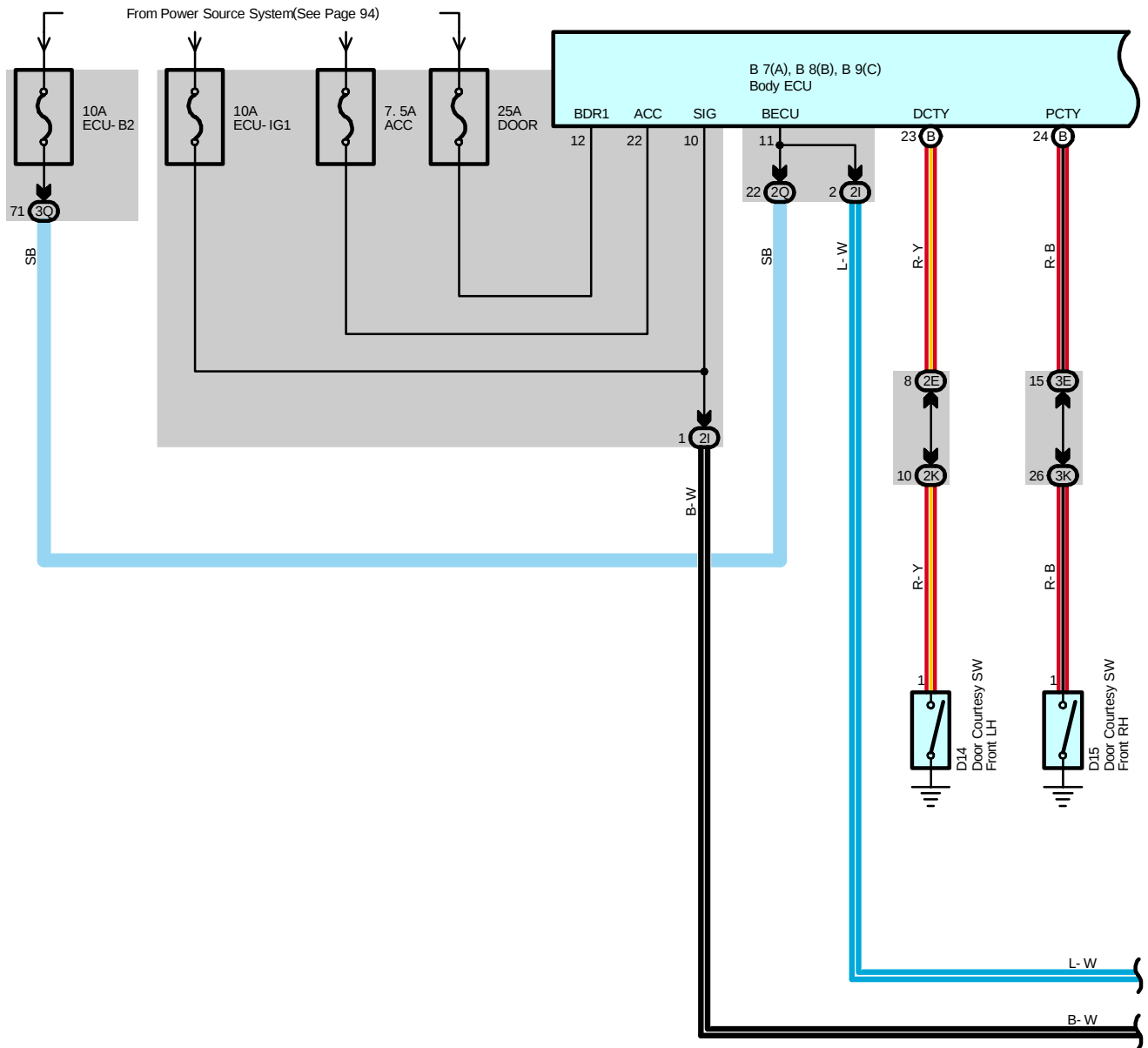
: Ground Points

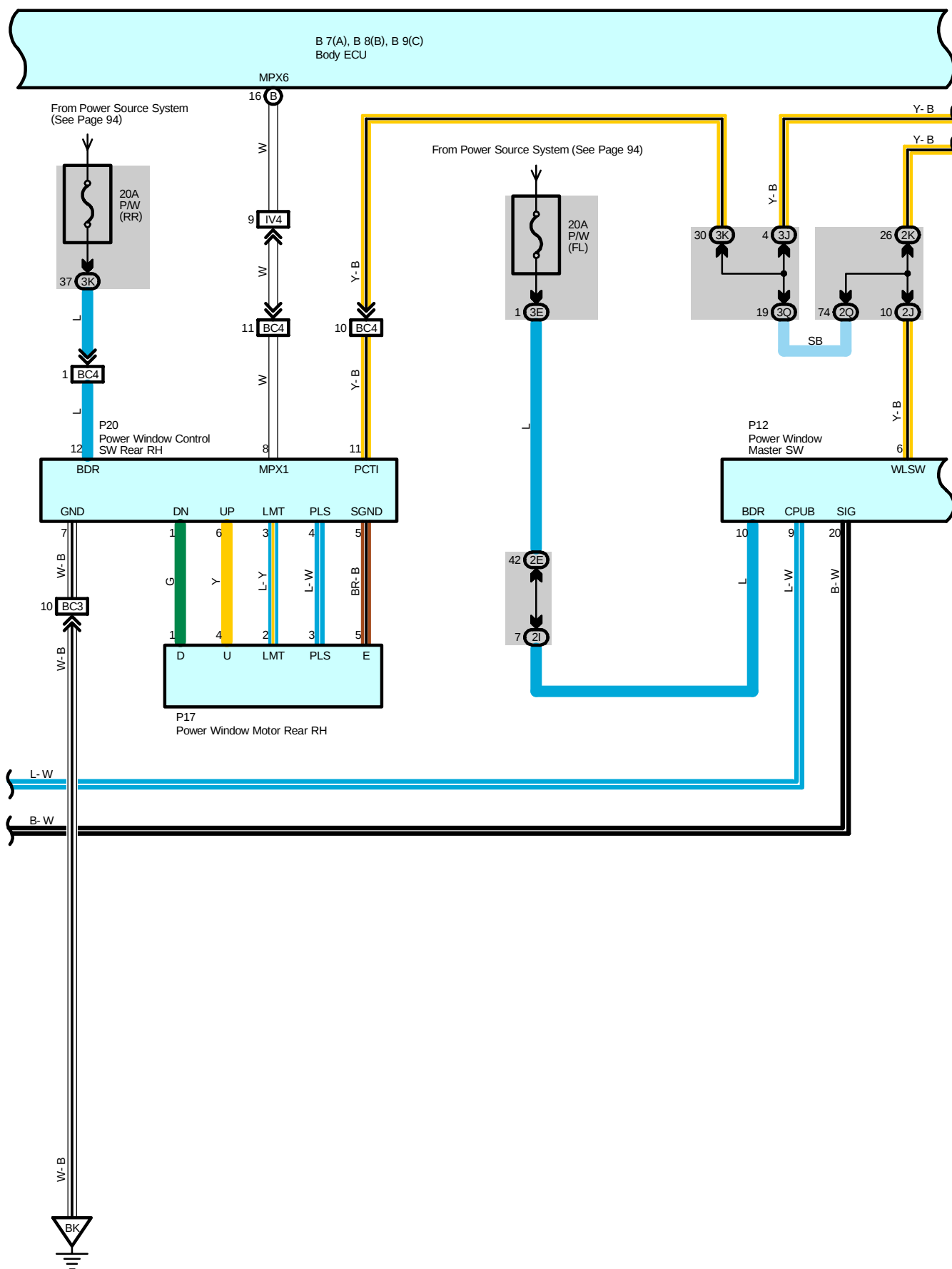
Code	See Page	Ground Points Location
EC	76	Rear Bank of Right Cylinder Head
II	78	Set Bolt of Cowl Side J/B RH

: Splice Points

Code	See Page	Wire Harness with Splice Points	Code	See Page	Wire Harness with Splice Points
E9	76	Transmission Wire	E10	76	Engine Wire

Power Window







Power Window

System Outline

1. Manual Down or Up Operation

When the power window master SW is pressed one step, the current flows from the power window master SW TERMINAL DN to the power window motor front LH to the power window master SW TERMINAL UP to GROUND, and rotates the motor to open the window.

When the power window master SW is pulled one step, the current flows from the power window master SW TERMINAL UP to the power window motor front LH to the power window master SW TERMINAL DN to GROUND, and rotates the motor to close the window.

For the other windows, as the power window master SW and the power window SW is operated, the relevant door window is opened or closed.

2. Auto Down or Up Operation

When the power window master SW is pushed two steps, the power window master SW determines it is in auto mode and the current flows from the power window master SW TERMINAL DN to the power window motor front LH to the power window master SW TERMINAL UP to GROUND, and rotates the motor to open the window automatically.

When the power window master SW is pulled two steps, the power window master SW determines it is in auto mode and the current flows from the power window master SW TERMINAL UP to the power window motor front LH to the power window master SW TERMINAL DN to GROUND, and rotates the motor to close the window automatically.

Accordingly, when each window switch of the power window control SW is operated, the relevant door window is automatically opened/closed.

3. Catching Prevention Function

When any foreign matter is caught in the window during power window up operation, the pulse sensor in the power window motor detects the changes in the number of motor rotations and forcibly opens the door window 50 mm, or when the window opening is less than 200 mm, it opens the window until the opening is 200 mm.

4. Key Off Power Window Operation

It is possible to operate the power window for approx. 43 seconds after the ignition SW is turned from on to off. However, when the door is opened while the window is being operated, the power window operation is stopped even though 43 seconds have not elapsed.

○ : Parts Location

Code		See Page	Code	See Page	Code	See Page
B7	A	70	D21	72	P18	73
B8	B	70	J14	71	P19	73
B9	C	70	P12	73	P20	73
C26		70	P14	73	T5	71
D14		72	P15	73	T7	71
D15		72	P16	73	U1	71
D18		72	P17	73		

○ : Junction Block and Wire Harness Connector

Code	See Page	Junction Block and Wire Harness (Connector Location)
2E	28	Dash Wire and Cowl Side J/B LH (Left Kick Panel)
2G		
2I	28	Front Door LH Wire and Cowl Side J/B LH (Left Kick Panel)
2J		
2K	28	Floor No.1 Wire and Cowl Side J/B LH (Left Kick Panel)
2Q	30	Instrument Panel Integration Wire and Cowl Side J/B LH (Left Kick Panel)
3D	40	Dash Wire and Cowl Side J/B RH (Right Kick Panel)
3E		
3F		
3I	40	Front Door RH Wire and Cowl Side J/B RH (Right Kick Panel)
3J		
3K	40	Floor No.2 Wire and Cowl Side J/B RH (Right Kick Panel)
3P	43	Dash Wire and Cowl Side J/B RH (Right Kick Panel)
3Q	42	Instrument Panel Integration Wire and Cowl Side J/B RH (Right Kick Panel)

 : Connector Joining Wire Harness and Wire Harness

Code	See Page	Joining Wire Harness and Wire Harness (Connector Location)
IC2	78	Front Door LH Wire and Dash Wire (Left Kick Panel)
ID4	78	Dash Wire and Floor No.1 Wire (Left Kick Panel)
IL3	80	Instrument Panel Integration Wire and Computer Wire (Instrument Panel Center)
IU3	82	Instrument Panel Integration Wire and Dash Wire (Behind the Glove Box)
IV4	82	Dash Wire and Floor No.2 Wire (Right Kick Panel)
IY2	82	Front Door RH Wire and Dash Wire (Right Kick Panel)
BA3	86	Rear Door LH Wire and Floor No.1 Wire (Left Side of Center Pillar)
BA4		
BC3	86	Rear Door RH Wire and Floor No.2 Wire (Right Side of Center Pillar)
BC4		
BD4	86	Floor No.3 Wire and Floor No.1 Wire (Left Rear Side Quarter Panel)
BS1	88	Door Lock LH Sub Wire and Front Door LH Wire (Front Door LH)

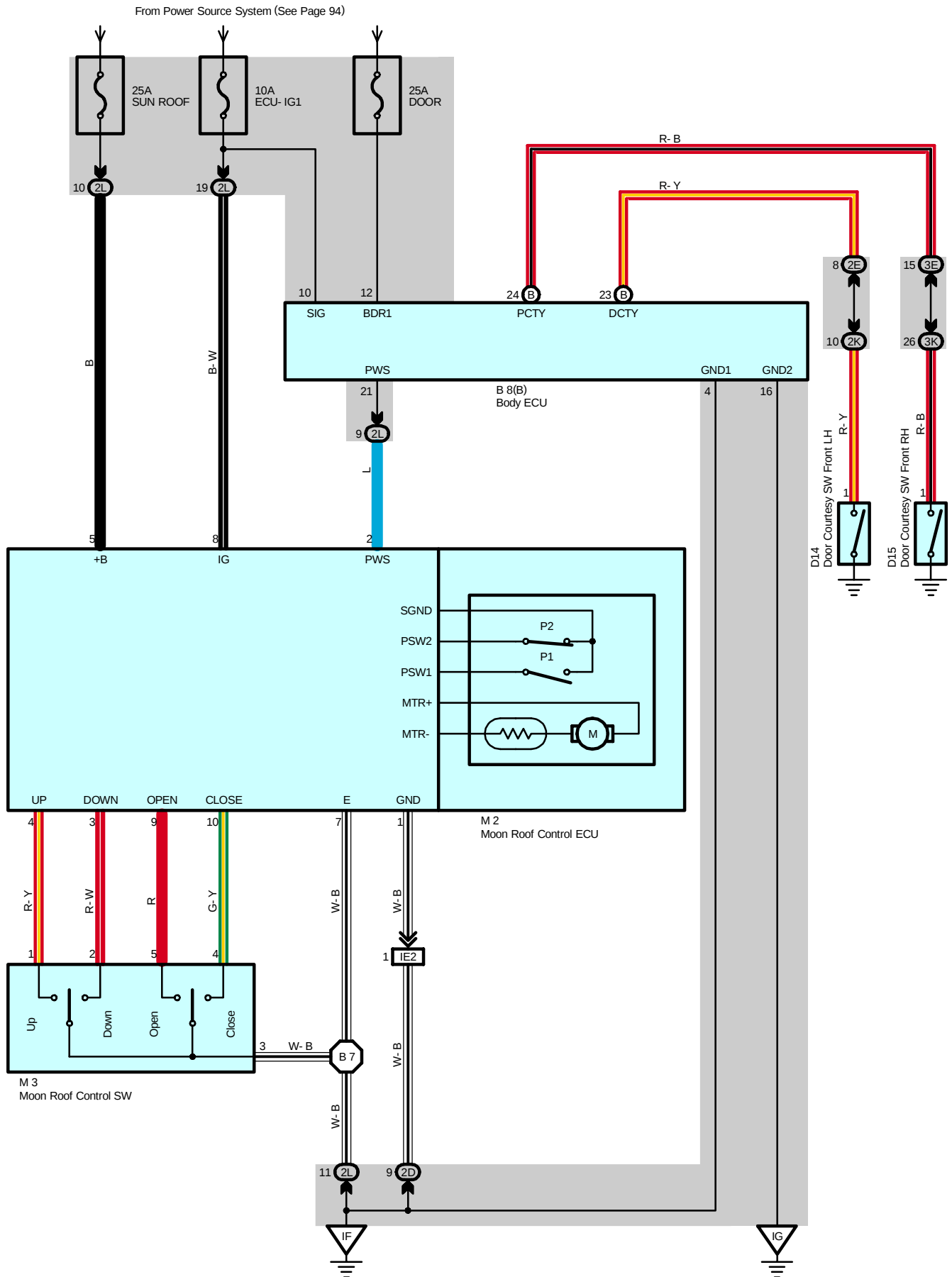
 : Ground Points

Code	See Page	Ground Points Location
IF	78	Set Bolt of Cowl Side J/B LH
IG		
II	78	Set Bolt of Cowl Side J/B RH
BJ	86	Under the Driver's Seat
BK	86	Front Side Under the Front Passenger's Seat

 : Splice Points

Code	See Page	Wire Harness with Splice Points	Code	See Page	Wire Harness with Splice Points
B2	88	Front Door LH Wire	B8	88	Front Door RH Wire
B4	88	Floor No.1 Wire			

Moon Roof



System Outline

In this system, the HALL IC in the moon roof control ECU detects the changes in motor rotation, and allows opening/closing, tilting up/down of the moon roof by one touch operation.

In addition, catching prevention function during moon roof operation is also provided.

Voltage is constantly applied from the SUN ROOF fuse to the moon roof control ECU TERMINAL 5 of the moon roof control ECU.

When the ignition SW is turned on, the current flows from the ECU-IG1 fuse to TERMINAL 8 of the moon roof control ECU.

1. Slide Open Operation

When the moon roof control SW is kept pressed to OPEN position for approx. 0.3 seconds or longer (Limit SW No.1 off, limit SW No.2 on), a signal is input from the moon roof control SW TERMINAL 5 to the moon roof control ECU TERMINAL 9. This activates the moon roof control ECU and rotates the motor to open the moon roof automatically. However, in case of pressing the moon roof control SW for 0.3 seconds or less, the moon roof can be operated manually. Then, when the limit SW No.1 is turned on and then turned off again, the pulse signal sent from the HALL IC activates the moon roof control ECU, and determines that the moon roof is fully open, and stops the motor. If other operation SW or the open SW is operated while the moon roof is being opened, the moon roof control ECU is activated to stop the moon roof operation. In addition, when the moon roof is tilted up, the slide open operation does not function.

2. Slide Close Operation

When the moon roof control SW is kept pressed to CLOSE position for approx. 0.3 seconds or longer (Limit SW No.1 off, limit SW No.2 off), a signal is input from the moon roof control SW TERMINAL 4 to the moon roof control ECU TERMINAL 10. This activates the moon roof control ECU and rotates the motor to close the moon roof automatically. However, in case of pressing the moon roof control SW for 0.3 seconds or less, the moon roof can be operated manually. Then, when the limit SW No.2 is turned on, the pulse signal sent from the HALL IC activates the moon roof control ECU, and determines that the moon roof is closed fully, and stops the motor. If other operation SW or the close SW is operated while the moon roof is being closed, the moon roof control ECU is activated to stop the moon roof operation.

3. Tilt Up Operation

When the moon roof control SW is kept pressed to UP position for approx. 0.3 seconds or longer (Limit SW No.1 off, limit SW No.2 on), a signal is input from the moon roof control SW TERMINAL 1 to the moon roof control ECU TERMINAL 4. This activates the moon roof control ECU and rotates the motor to tilt up the moon roof automatically. If the pulse signal is not input from the HALL IC for 0.5 seconds or longer, it determines that the moon roof is fully tilted up, and stops the motor. If other operation SW or the tilt up SW is operated while the moon roof is being tilted up, the moon roof control ECU is activated to stop the moon roof operation. In addition, when the moon roof is opened, the tilt up operation does not function.

4. Tilt Down Operation

When the moon roof control SW is kept pressed to DOWN position for approx. 0.3 seconds or longer (Limit SW No.1 on, limit SW No.2 on), a signal is input from the moon roof control SW TERMINAL 2 to the moon roof control ECU TERMINAL 3. This activates the moon roof control ECU and rotates the motor to tilt down the moon roof automatically.

Then, when the limit SW No.1 is turned off, the pulse signal sent from the HALL IC activated the moon roof control ECU, and determines that the moon roof is closed fully, and stops the motor.

If other operation SW or the tilt down SW is operated while the moon roof is being tilted down, the moon roof control ECU is activated to stop the moon roof operation.

5. Catching Prevention Function

During slide close or tilt down operation, if the moon roof control ECU detects a catching load from the changes in the rotation of the motor, the operation is stopped, and the motor is rotated in the reverse direction.

* Slide close operation

The moon roof is moved approx. 200 mm in the reverse direction (Slide open) after a catching load has been detected.

However, if the full open position is detected before moving approx. 200 mm, the reverse movement is stopped.

* Tilt down operation

If a catching load is detected, the moon roof is moved in the reverse direction until fully tilted up.

6. Key Off Moon Roof Operation

Within approx. 43 seconds after the ignition SW is turned from on to off, the moon roof can be operated. However, if the driver or front passenger door is opened during this period of time, the moon roof operation is stopped even though 43 seconds have not elapsed.

7. Fail-Safe Function

If the moon roof is operated continuously in the same direction, the current flowing to the motor is cut off when the time shown below has elapsed after the motor operation has been started.

* Slide open/close operation by the moon roof SW approx. 20 seconds

* Tilt up/down operation by the moon roof SW approx. 2 second

* Slide open operation for reverse movement in case of catching prevention function approx. 20 seconds

* Tilt up operation for reverse movement in case of catching prevention function approx. 2 seconds

Moon Roof

: Parts Location

Code		See Page	Code	See Page	Code	See Page
B8	B	70	D15	72	M3	72
D14		72	M2	72		

: Junction Block and Wire Harness Connector

Code	See Page	Junction Block and Wire Harness (Connector Location)
2D	28	Dash Wire and Cowl Side J/B LH (Left Kick Panel)
2E		
2K	28	Floor No.1 Wire and Cowl Side J/B LH (Left Kick Panel)
2L	28	Roof No.1 Wire and Cowl Side J/B LH (Left Kick Panel)
3E	40	Dash Wire and Cowl Side J/B RH (Right Kick Panel)
3K	40	Floor No.2 Wire and Cowl Side J/B RH (Right Kick Panel)

: Connector Joining Wire Harness and Wire Harness

Code	See Page	Joining Wire Harness and Wire Harness (Connector Location)
IE2	78	Dash Wire and Roof No.1 Wire (Left Kick Panel)

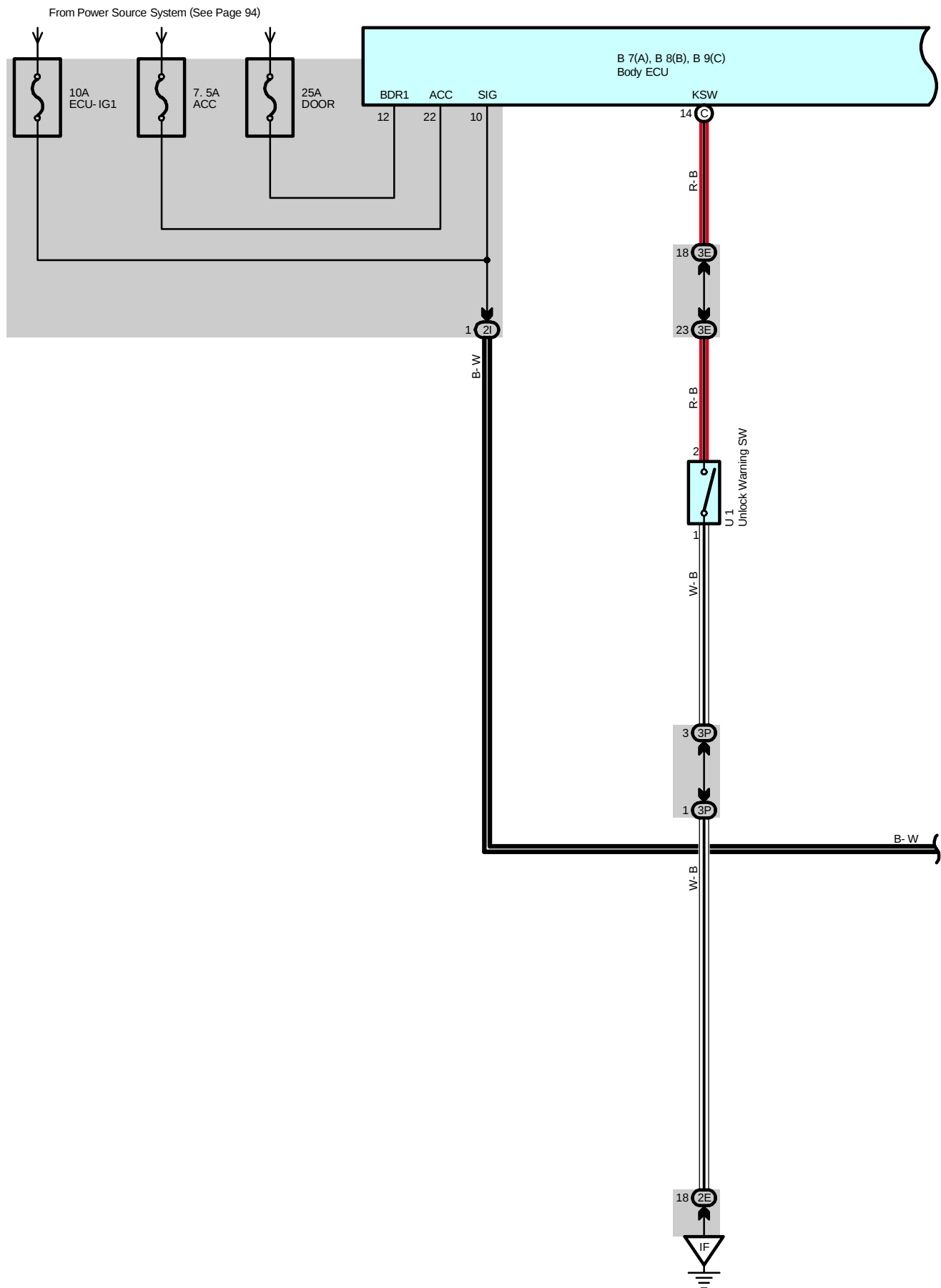
: Ground Points

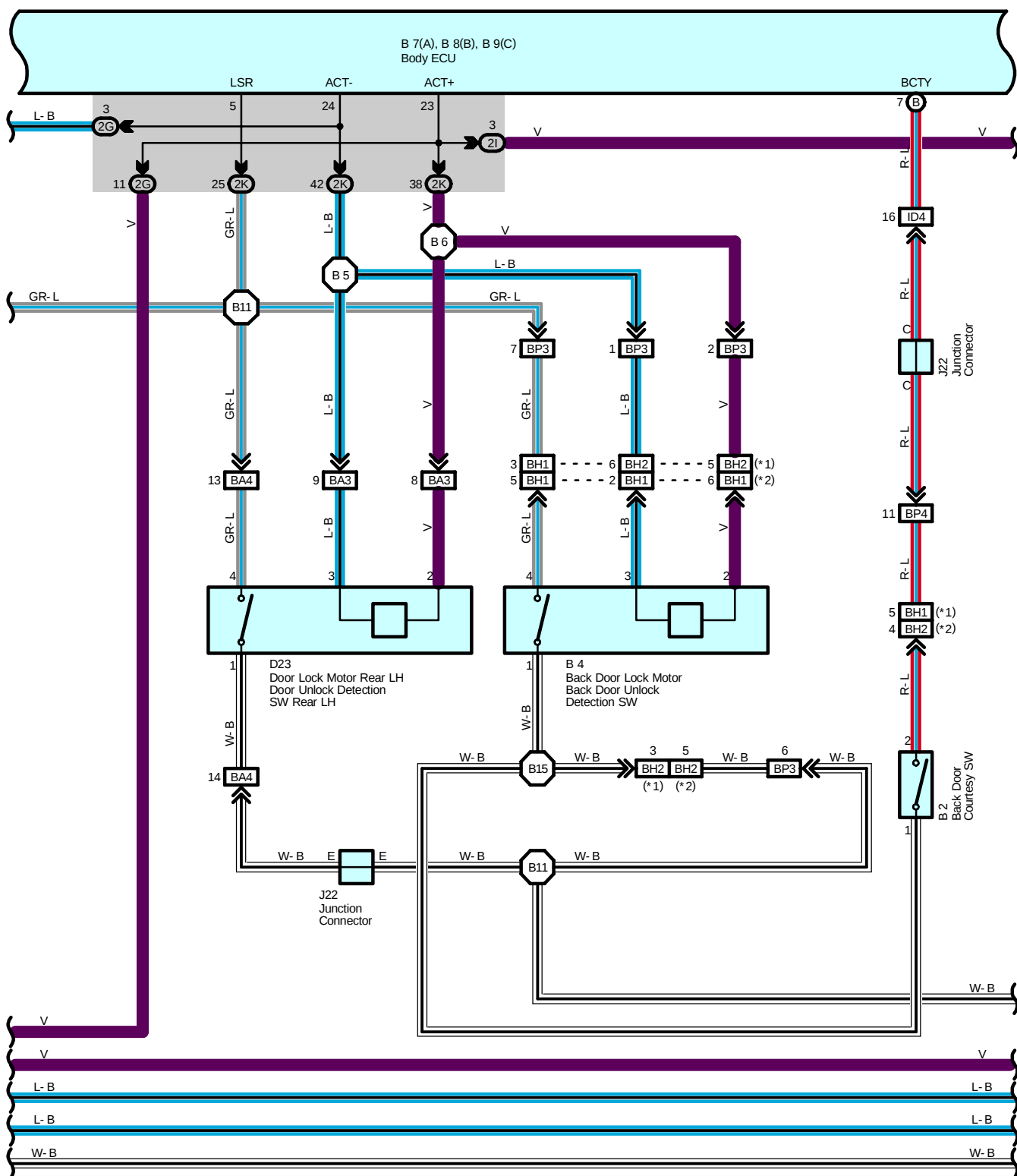
Code	See Page	Ground Points Location
IF	78	Set Bolt of Cowl Side J/B LH
IG		

: Splice Points

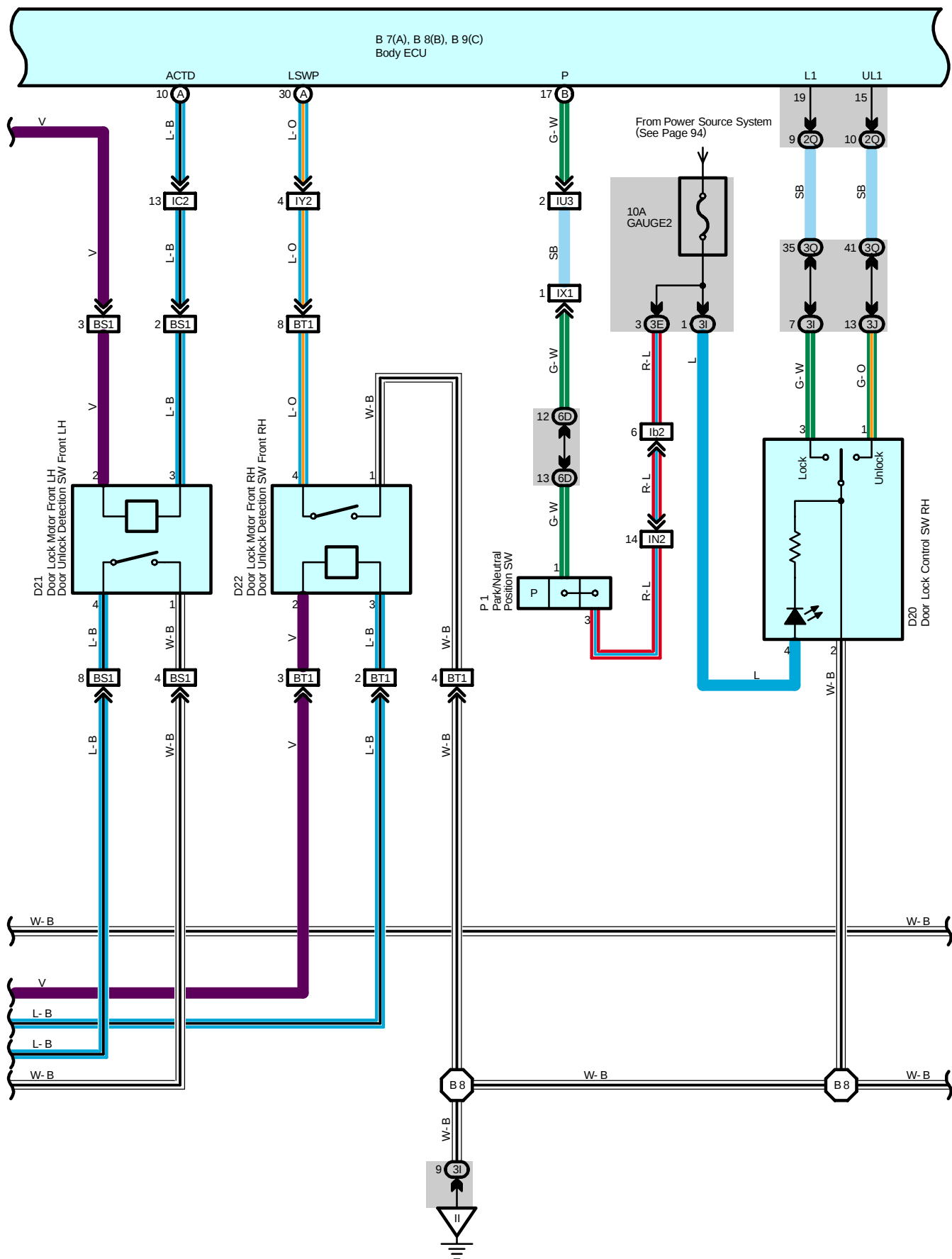
Code	See Page	Wire Harness with Splice Points	Code	See Page	Wire Harness with Splice Points
B7	88	Roof No.1 Wire			

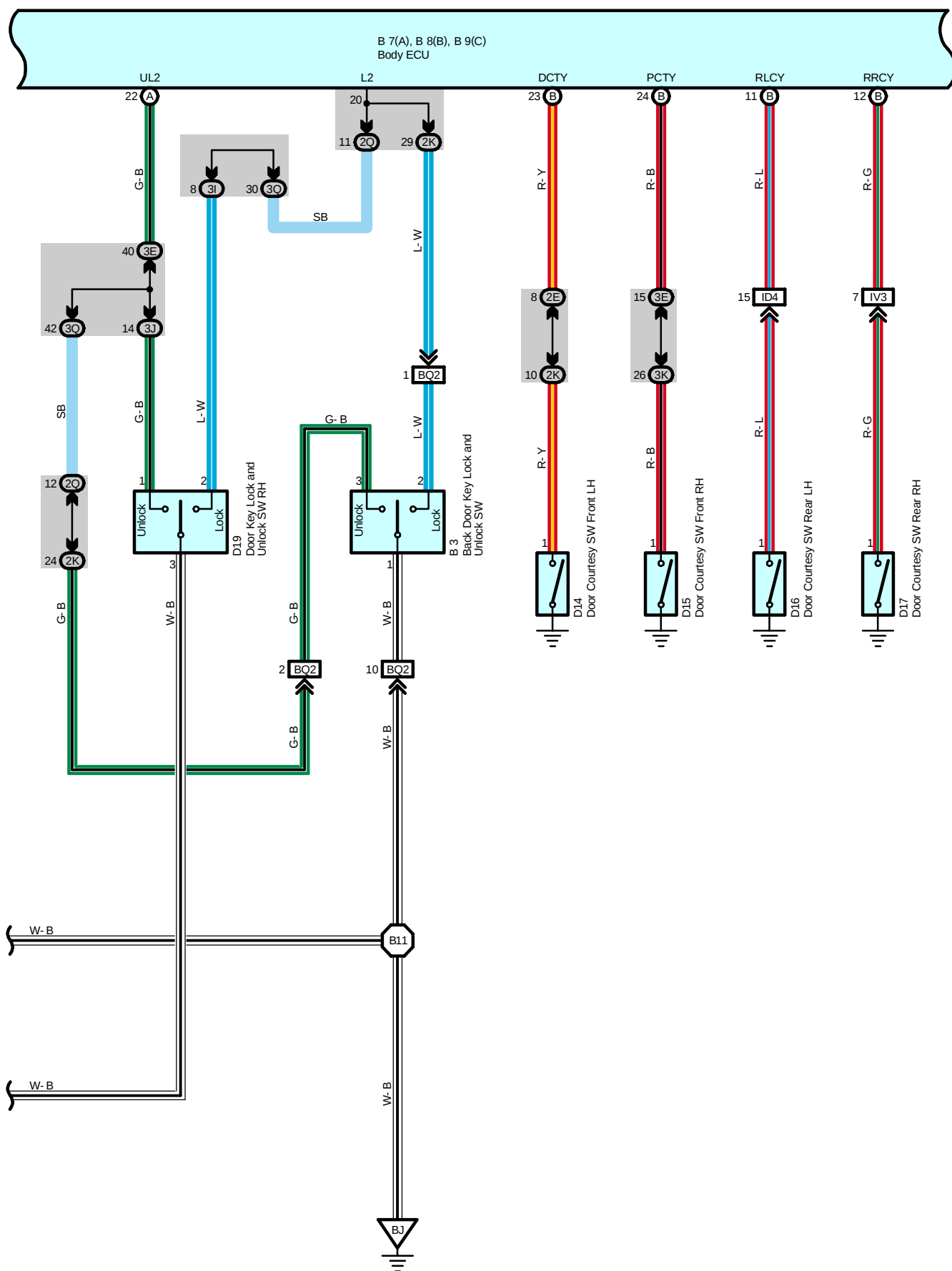
Door Lock Control



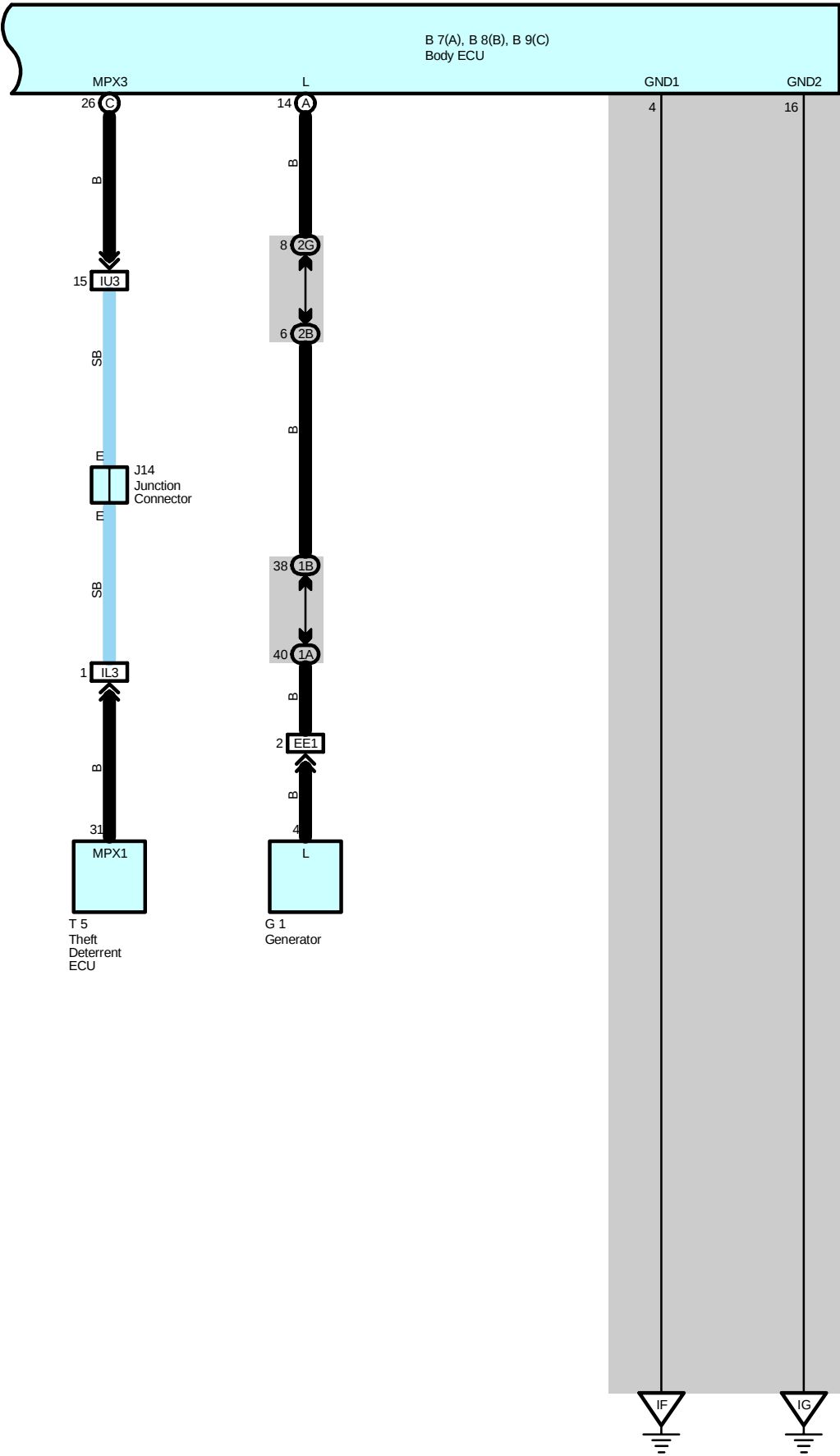


Door Lock Control





Door Lock Control



System Outline

The door lock control system is controlled by the body ECU.

This system has following features. However, the adopted function differs depending on the establishment.

1. Manual Lock and Unlock Operation

Pressing the power door lock switch on the driver or front passenger door to the lock side will lock all the doors and pressing it to the unlock side will unlock all the doors.

2. Key-Linked Lock and Unlock Function

This function, which is linked with the key cylinder, can lock or unlock all the doors when a lock or unlock operation is effected.

3. Manual Unlock Prohibition Function

Performing the door lock operation with a transmitter or an ignition key will prohibit the unlock operation by the door lock control switch.

4. 2-Step Unlock Function

This function is provided to unlock the driver's door by turning the key cylinder first and unlock passenger's door by turning it the second time.

5. Key Confine Prevention Function

When the key is inserted in the ignition key cylinder and if you perform the door lock operation, all the doors will be unlocked.

6. Shift-Linked Automatic Door Lock

When the conditions listed below are met consecutively, this function causes all the doors to be automatically locked.

- * The ignition switch is turned from the OFF or ACC position to the ON position.
- * All doors are closed.
- * The shift lever is moved out of P position.
- * Either one of the doors is unlocked.

7. Theft Deterrent System-Linked Door Lock Function

When the body ECU receives the door lock signal from the theft deterrent system, "all doors lock" operation will be performed in spite of the current door lock condition.

: Parts Location

Code	See Page	Code	See Page	Code	See Page
B2	72	D16	72	G1	68
B3	72	D17	72	J14	71
B4	72	D18	72	J22	72
B7	A 70	D19	72	P1	69
B8	B 70	D20	72	P12	73
B9	C 70	D21	72	T5	71
C15	70	D22	72	U1	71
D14	72	D23	72		
D15	72	D24	72		

Door Lock 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)
1B	24	Engine Room No.2 Wire and Engine Room J/B (Engine Compartment Left)
2B	28	Engine Room No.2 Wire and Cowl Side J/B LH (Left Kick Panel)
2E	28	Dash Wire and Cowl Side J/B LH (Left Kick Panel)
2G		
2I	28	Front Door LH Wire and Cowl Side J/B LH (Left Kick Panel)
2K	28	Floor No.1 Wire and Cowl Side J/B LH (Left Kick Panel)
2Q	30	Instrument Panel Integration Wire and Cowl Side J/B LH (Left Kick Panel)
3E	40	Dash Wire and Cowl Side J/B RH (Right Kick Panel)
3I	40	Front Door RH Wire and Cowl Side J/B RH (Right Kick Panel)
3J		
3K	40	Floor No.2 Wire and Cowl Side J/B RH (Right Kick Panel)
3P	43	Dash Wire and Cowl Side J/B RH (Right Kick Panel)
3Q	42	Instrument Panel Integration Wire and Cowl Side J/B RH (Right Kick Panel)
6D	60	Engine Wire and J/B No.6 (Behind the Glove Box)



: Connector Joining Wire Harness and Wire Harness

Code	See Page	Joining Wire Harness and Wire Harness (Connector Location)
EE1	76	Engine Room Main Wire and Alternator Wire (Near the Battery)
IC2	78	Front Door LH Wire and Dash Wire (Left Kick Panel)
ID4	78	Dash Wire and Floor No.1 Wire (Left Kick Panel)
IL3	80	Instrument Panel Integration Wire and Computer Wire (Instrument Panel Center)
IN2	80	Engine Wire and Dash Wire (Behind the Glove Box)
IU3	82	Instrument Panel Integration Wire and Dash Wire (Behind the Glove Box)
IV3	82	Dash Wire and Floor No.2 Wire (Right Kick Panel)
IX1	82	Instrument Panel Integration Wire and Engine Wire (Behind the Glove Box)
IY2	82	Front Door RH Wire and Dash Wire (Right Kick Panel)
Ib2	84	Dash Wire and Dash Wire (Behind the Combination Meter)
BA3	86	Rear Door LH Wire and Floor No.1 Wire (Left Side of Center Pillar)
BA4		
BC3	86	Rear Door RH Wire and Floor No.2 Wire (Right Side of Center Pillar)
BC4		
BD4	86	Floor No.3 Wire and Floor No.1 Wire (Left Rear Side Quarter Panel)
BH1	86	Pillar No.1 Wire and Back Door Upper Wire (Left Side of Back Door)
BH2		
BL5	88	Floor No.2 Wire and Floor No.3 Wire (Right Side of Rear Floor Crossmember)
BP3	88	Pillar No.1 Wire and Floor No.1 Wire (Left Rear Side Quarter Panel)
BP4		
BQ2	88	Back Door Lower Wire and Floor No.1 Wire (Left Rear Side Quarter Panel)
BS1	88	Door Lock LH Sub Wire and Front Door LH Wire (Front Door LH)
BT1	88	Door Lock RH Sub Wire and Front Door RH Wire (Front Door RH)



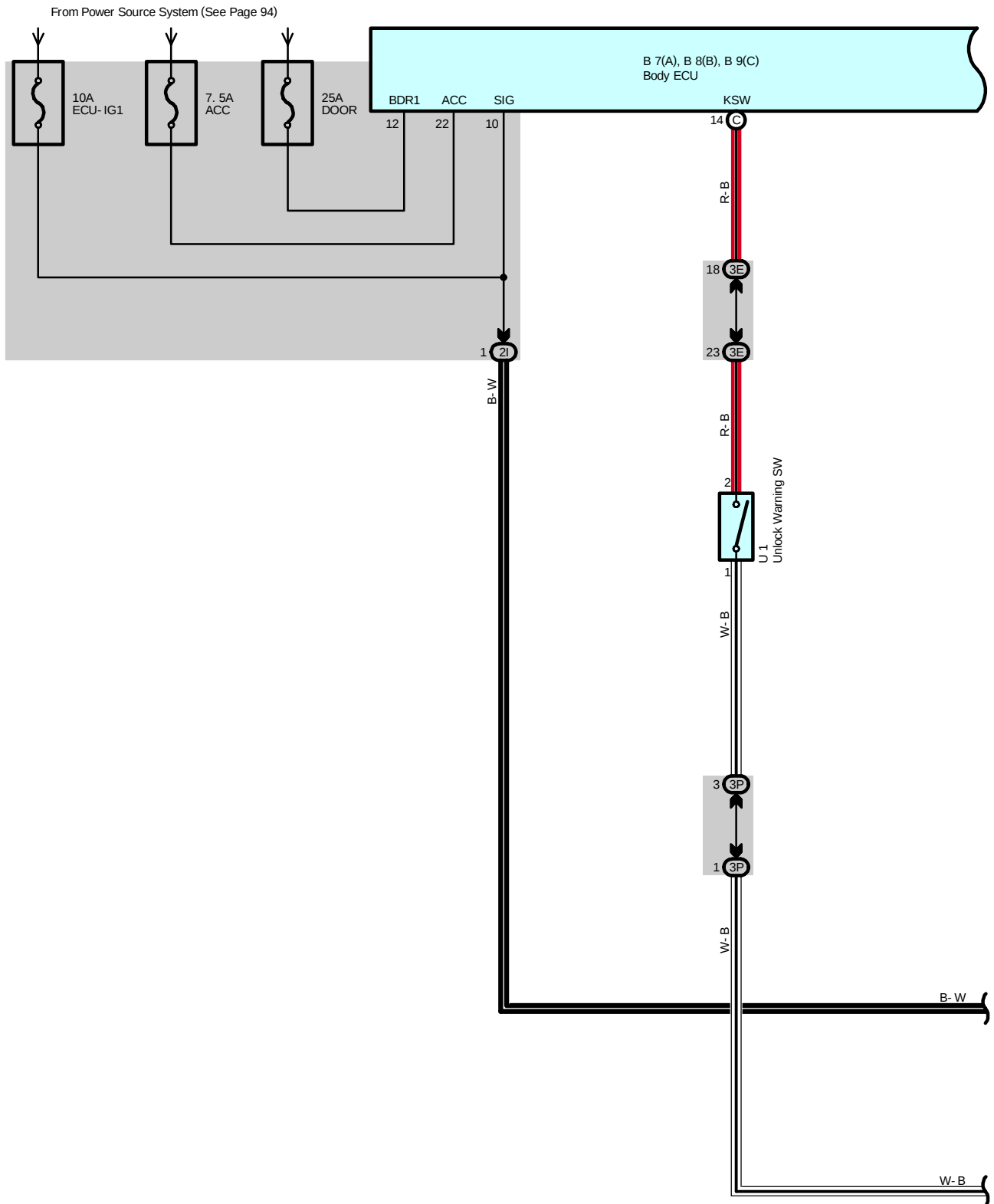
: Ground Points

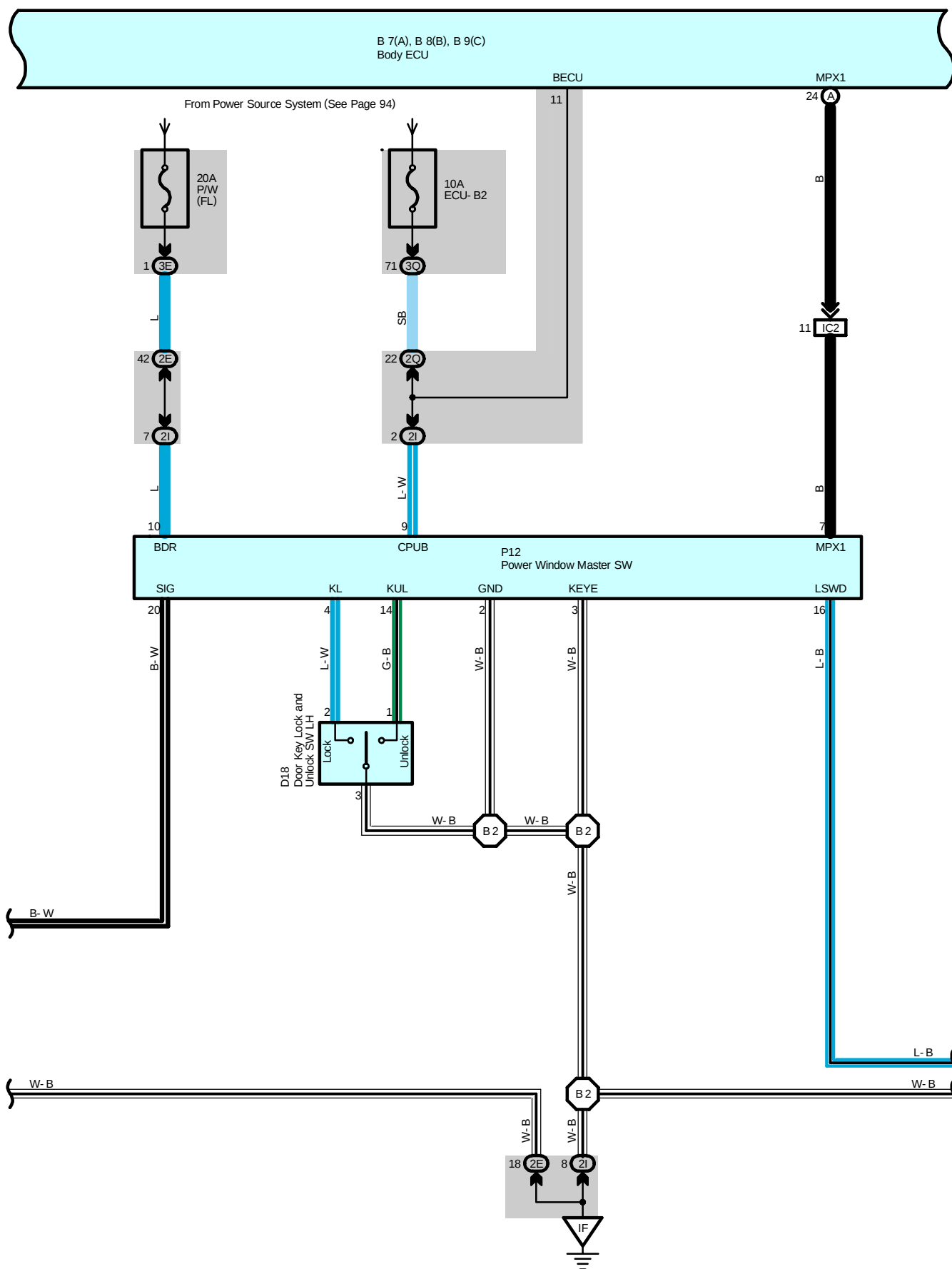
Code	See Page	Ground Points Location
IF	78	Set Bolt of Cowl Side J/B LH
IG		
II	78	Set Bolt of Cowl Side J/B RH
BJ	86	Under the Driver's Seat
BK	86	Front Side Under the Front Passenger's Seat



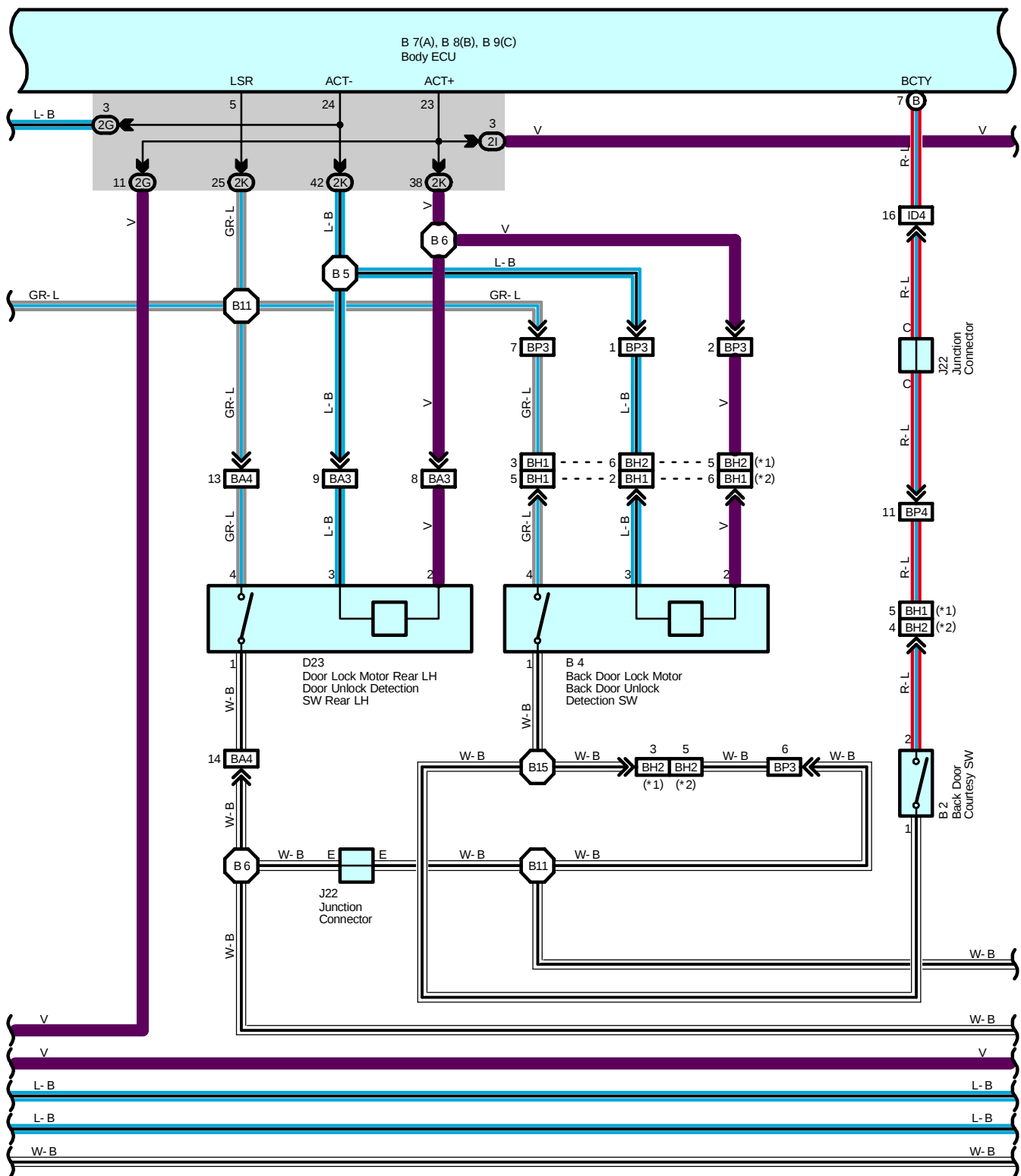
: Splice Points

Code	See Page	Wire Harness with Splice Points	Code	See Page	Wire Harness with Splice Points
B2	88	Front Door LH Wire	B8	88	Front Door RH Wire
B5	88	Floor No.1 Wire	B11	88	Floor No.1 Wire
B6			B15	88	Back Door Upper Wire

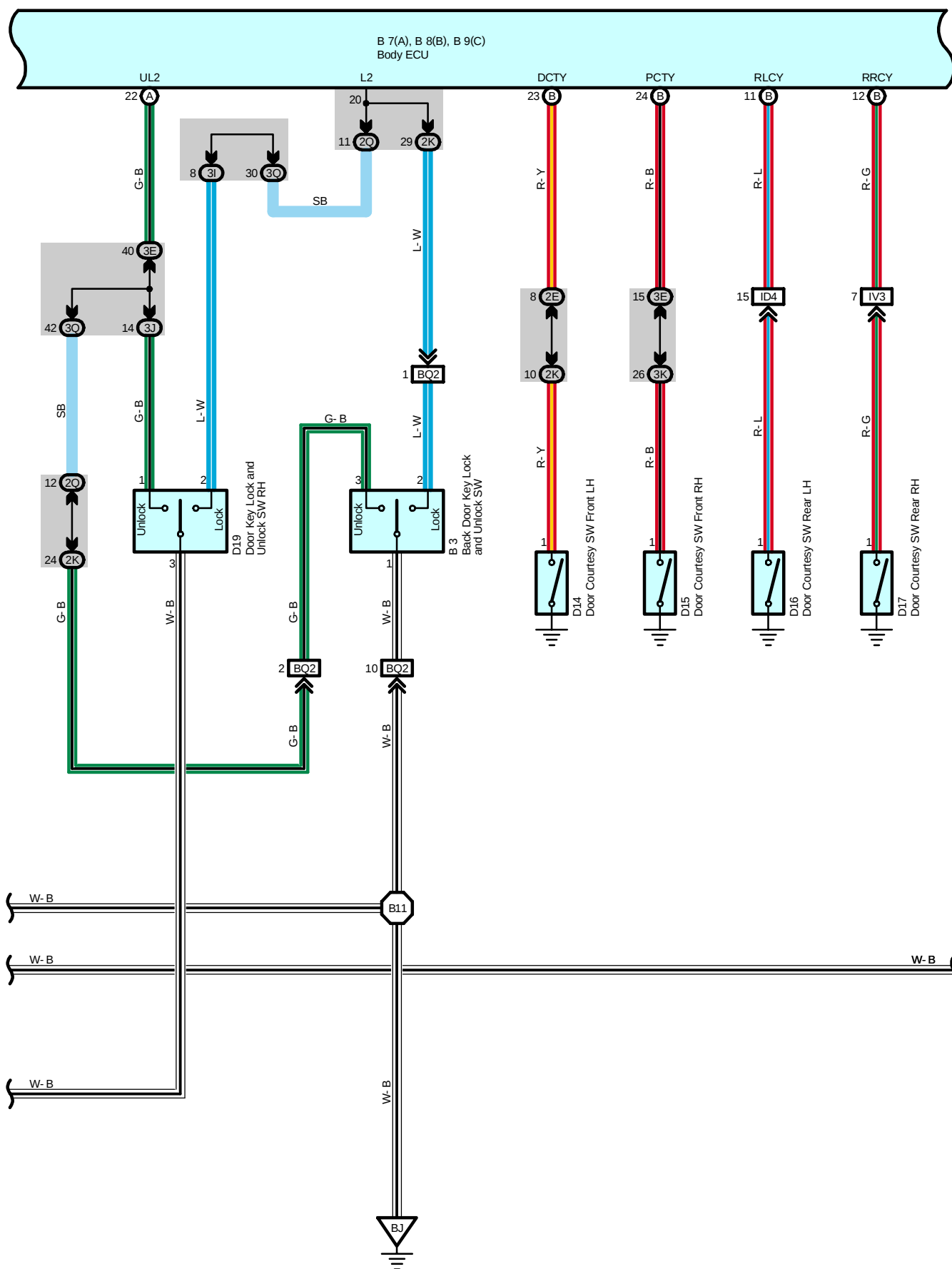




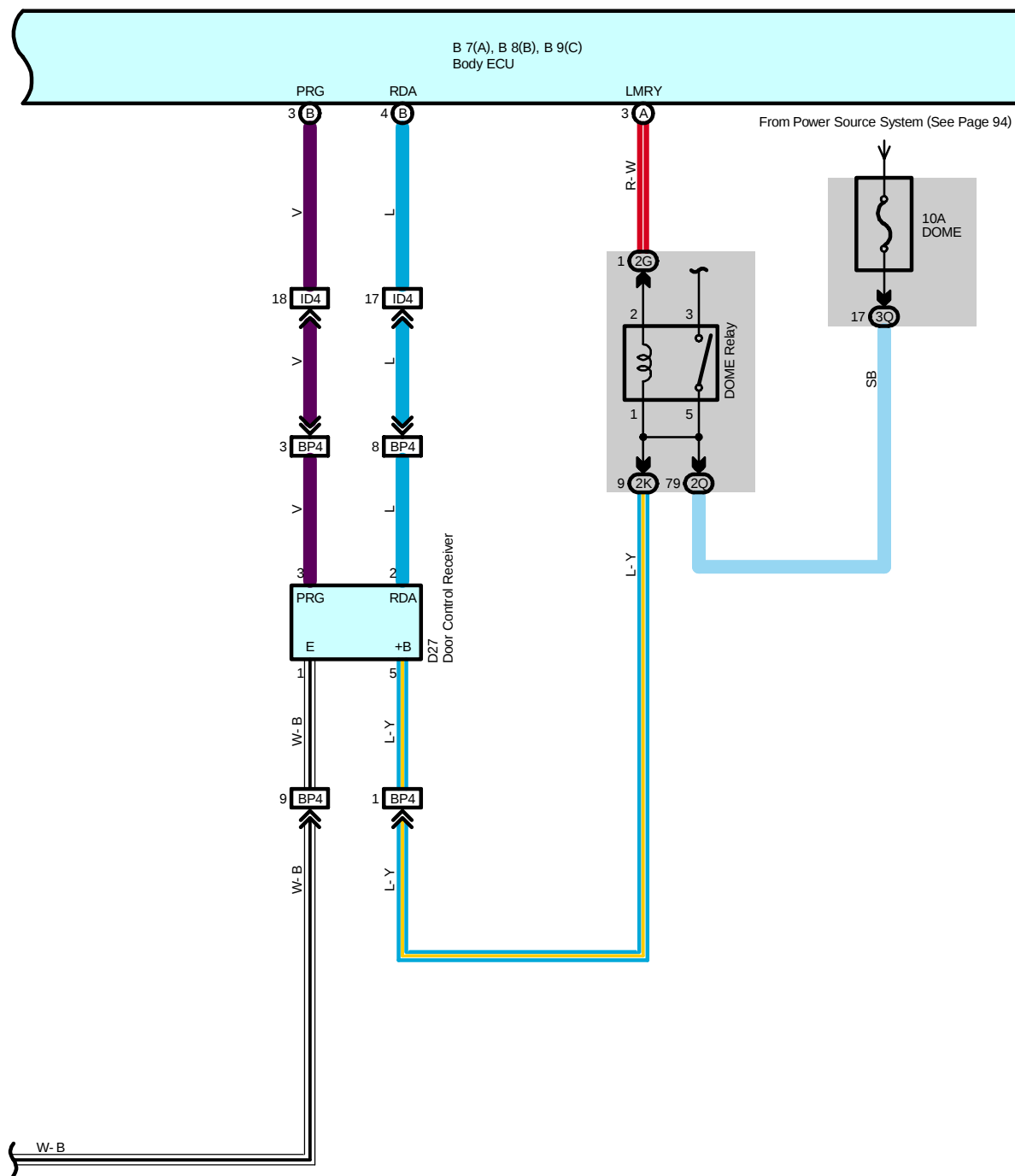


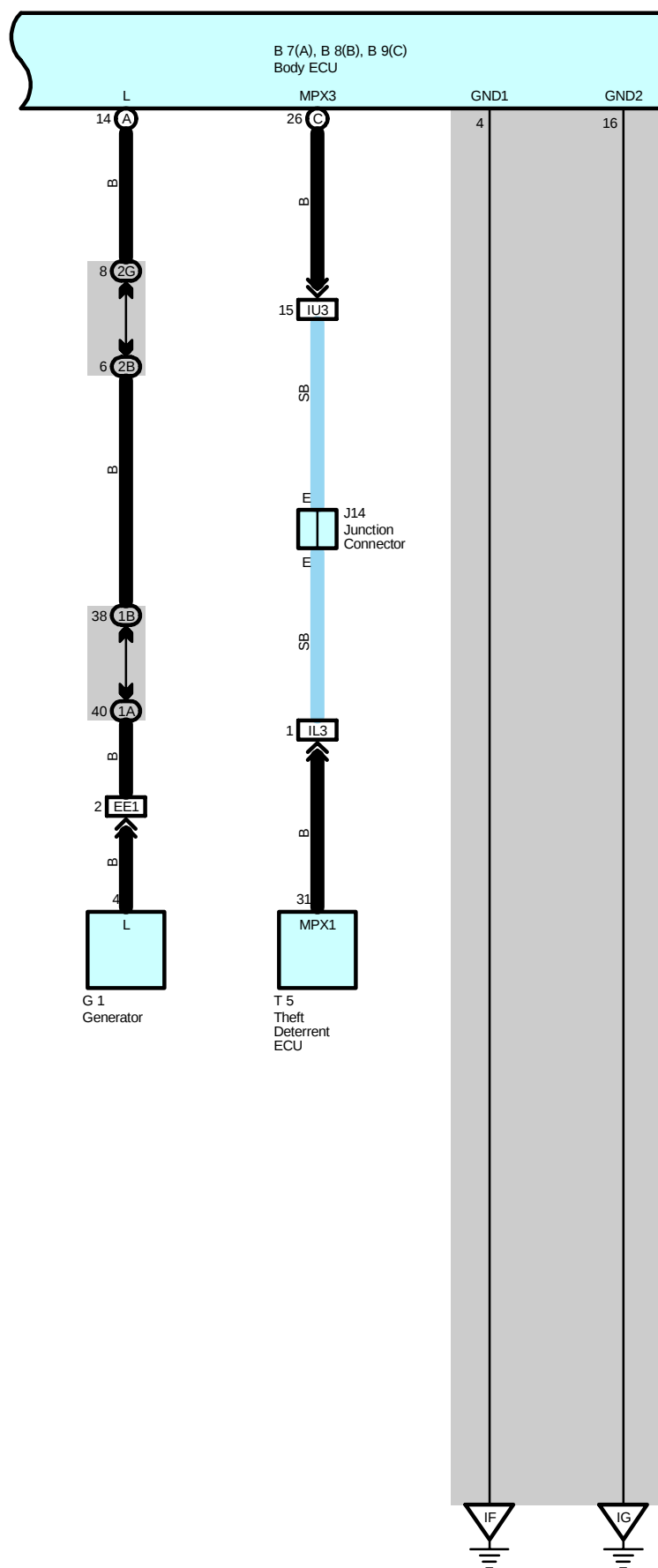






Wireless Door Lock Control





Wireless Door Lock Control

System Outline

In this system, the door control receiver receives weak radio wave transmitted from the transmitter built-into the ignition key, and outputs a signal to the body ECU. Accordingly, all the doors can be locked and unlocked by remote control.

1. Normal Operation

* Lock operation

When the lock SW on the transmitter is pressed, all the doors are locked.

* Unlock operation

When the unlock SW on the transmitter is pressed once, only the driver door is unlocked. When the unlock SW is pressed again within 3 seconds, all the doors are unlocked.

2. Auto Lock Function

When the door is not actually opened within 30 seconds after the door has been unlocked by the unlock SW on the transmitter, all the doors are automatically locked. If any of the following conditions are detected, the wireless door lock does not function.

* Any door is opened.

* The ignition key is inserted into the ignition SW.

* When the unlock detection SW of all the doors are locked.

3. Wireless Door Lock Stop Function

If any of the following conditions are detected, the wireless door lock does not function.

Lock operation

* When any door is open (Door courtesy SW on)

* The ignition key is inserted into the ignition SW (Unlock warning SW on)

* Ignition SW is on

Unlock operation

* Ignition SW is on

4. Visual Confirmation of Lock or Unlock

During lock operation, when the door control receiver receives a lock signal from the door unlock detection SW, the turn signal light is flashed once. During unlock operation, when the door control receiver receives an unlock signal from the door unlock detection SW, the turn signal light is flashed twice.

5. Panic Mode Function

When the panic SW on the transmitter is pressed, the door control receiver receives a signal and enters the panic mode. The signal input into the theft deterrent ECU from the body ECU turns on the theft deterrent horn, and flashes the taillight and headlight. When the panic SW or the unlock SW of the transmitter is pressed during the panic mode, the panic mode is canceled, and the theft deterrent horn stops, and the taillight and headlight are turned off.

6. Repeat Function

If the lock detection signal in response to the output signal is not received after the door control receiver has output the lock signal, the lock signal is output again.

Service Hints

D27 Door Control Receiver

5-Ground : Always approx. 12 volts

1-Ground : Always continuity

D21, D22, D23, D24 Door Unlock Detection SW Front LH, RH, Rear LH, RH

1-Ground : Always continuity

B4 Back Door Unlock Detection SW

1-Ground : Always continuity

 : Parts Location

Code	See Page	Code	See Page	Code	See Page
B2	72	D16	72	D27	72
B3	72	D17	72	G1	68
B4	72	D18	72	J14	71
B7	A	D19	72	J22	72
B8	B	D20	72	P1	69
B9	C	D21	72	P12	73
C15	70	D22	72	T5	71
D14	72	D23	72	U1	71
D15	72	D24	72		

 : 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	24	Engine Room No.2 Wire and Engine Room J/B (Engine Compartment Left)
2B	28	Engine Room No.2 Wire and Cowl Side J/B LH (Left Kick Panel)
2E	28	Dash Wire and Cowl Side J/B LH (Left Kick Panel)
2G		
2I	28	Front Door LH Wire and Cowl Side J/B LH (Left Kick Panel)
2K	28	Floor No.1 Wire and Cowl Side J/B LH (Left Kick Panel)
2Q	30	Instrument Panel Integration Wire and Cowl Side J/B LH (Left Kick Panel)
3E	40	Dash Wire and Cowl Side J/B RH (Right Kick Panel)
3I	40	Front Door RH Wire and Cowl Side J/B RH (Right Kick Panel)
3J		
3K	40	Floor No.2 Wire and Cowl Side J/B RH (Right Kick Panel)
3P	43	Dash Wire and Cowl Side J/B RH (Right Kick Panel)
3Q	42	Instrument Panel Integration Wire and Cowl Side J/B RH (Right Kick Panel)
6D	60	Engine Wire and J/B No.6 (Behind the Grove Box)

Wireless Door Lock Control

: Connector Joining Wire Harness and Wire Harness

Code	See Page	Joining Wire Harness and Wire Harness (Connector Location)
EE1	76	Engine Room Main Wire and Alternator Wire (Near the Battery)
IC2	78	Front Door LH Wire and Dash Wire (Left Kick Panel)
ID4	78	Dash Wire and Floor No.1 Wire (Left Kick Panel)
IL3	80	Instrument Panel Integration Wire and Computer Wire (Instrument Panel Center)
IN2	80	Engine Wire and Dash Wire (Behind the Glove Box)
IU3	82	Instrument Panel Integration Wire and Dash Wire (Behind the Glove Box)
IV3	82	Dash Wire and Floor No.2 Wire (Right Kick Panel)
IX1	82	Instrument Panel Integration Wire and Engine Wire (Behind the Glove Box)
IY2	82	Front Door RH Wire and Dash Wire (Right Kick Panel)
Ib2	84	Dash Wire and Dash Wire (Behind the Combination Meter)
BA3	86	Rear Door LH Wire and Floor No.1 Wire (Left Side of Center Pillar)
BA4		
BC3	86	Rear Door RH Wire and Floor No.2 Wire (Right Side of Center Pillar)
BC4		
BD4	86	Floor No.3 Wire and Floor No.1 Wire (Left Rear Side Quarter Panel)
BH1	86	Pillar No.1 Wire and Back Door Upper Wire (Left Side of Back Door)
BH2		
BL5	88	Floor No.2 Wire and Floor No.3 Wire (Right Side of Rear Floor Crossmember)
BP3	88	Pillar No.1 Wire and Floor No.1 Wire (Left Rear Side Quarter Panel)
BP4		
BQ2	88	Back Door Lower Wire and Floor No.1 Wire (Left Rear Side Quarter Panel)
BS1	88	Door Lock LH Sub Wire and Front Door LH Wire (Front Door LH)
BT1	88	Door Lock RH Sub Wire and Front Door RH Wire (Front Door RH)

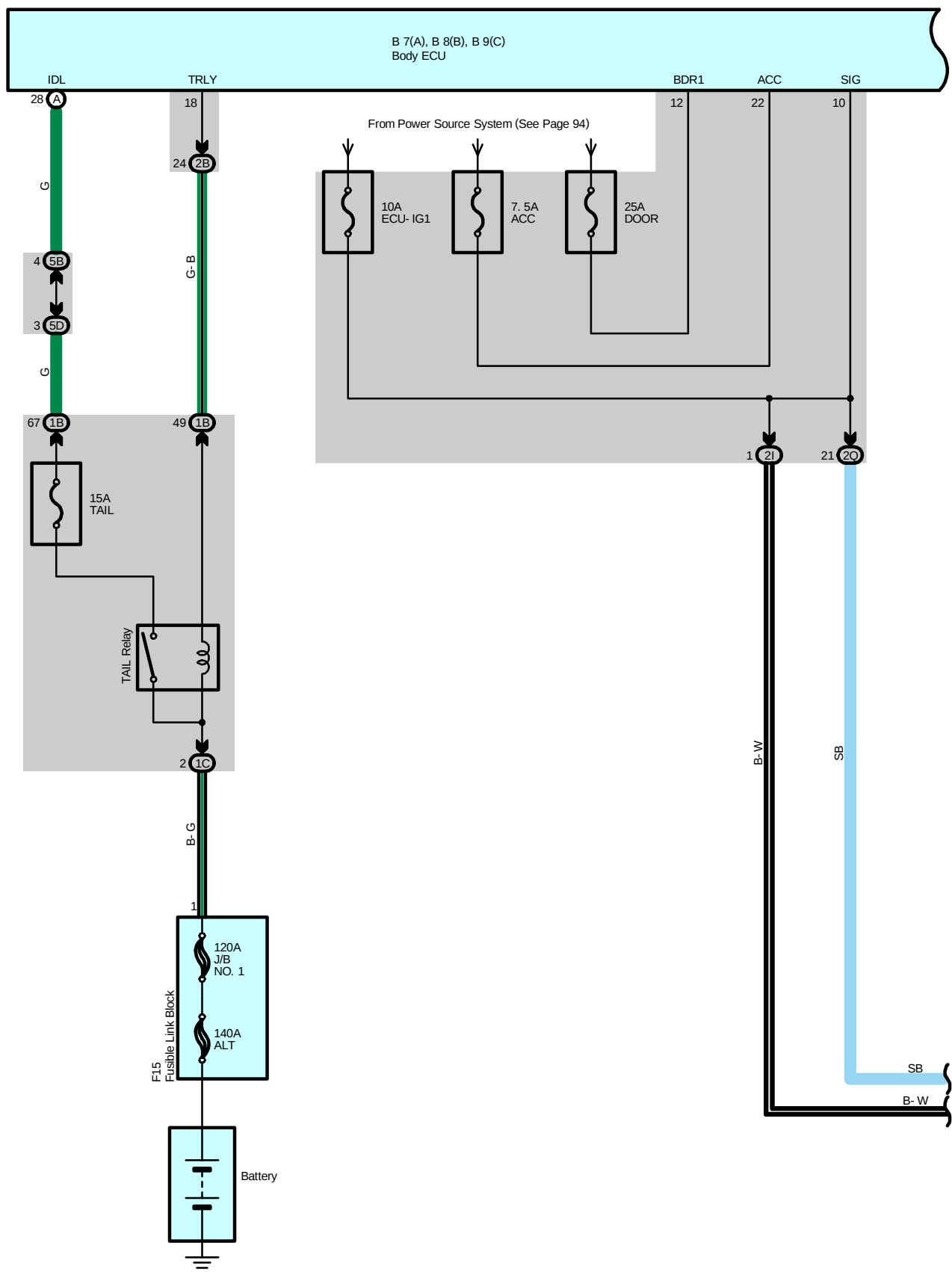
: Ground Points

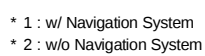
Code	See Page	Ground Points Location
IF	78	Set Bolt of Cowl Side J/B LH
IG		
II	78	Set Bolt of Cowl Side J/B RH
BJ	86	Under the Driver's Seat
BK	86	Front Side Under the Front Passenger's Seat

: Splice Points

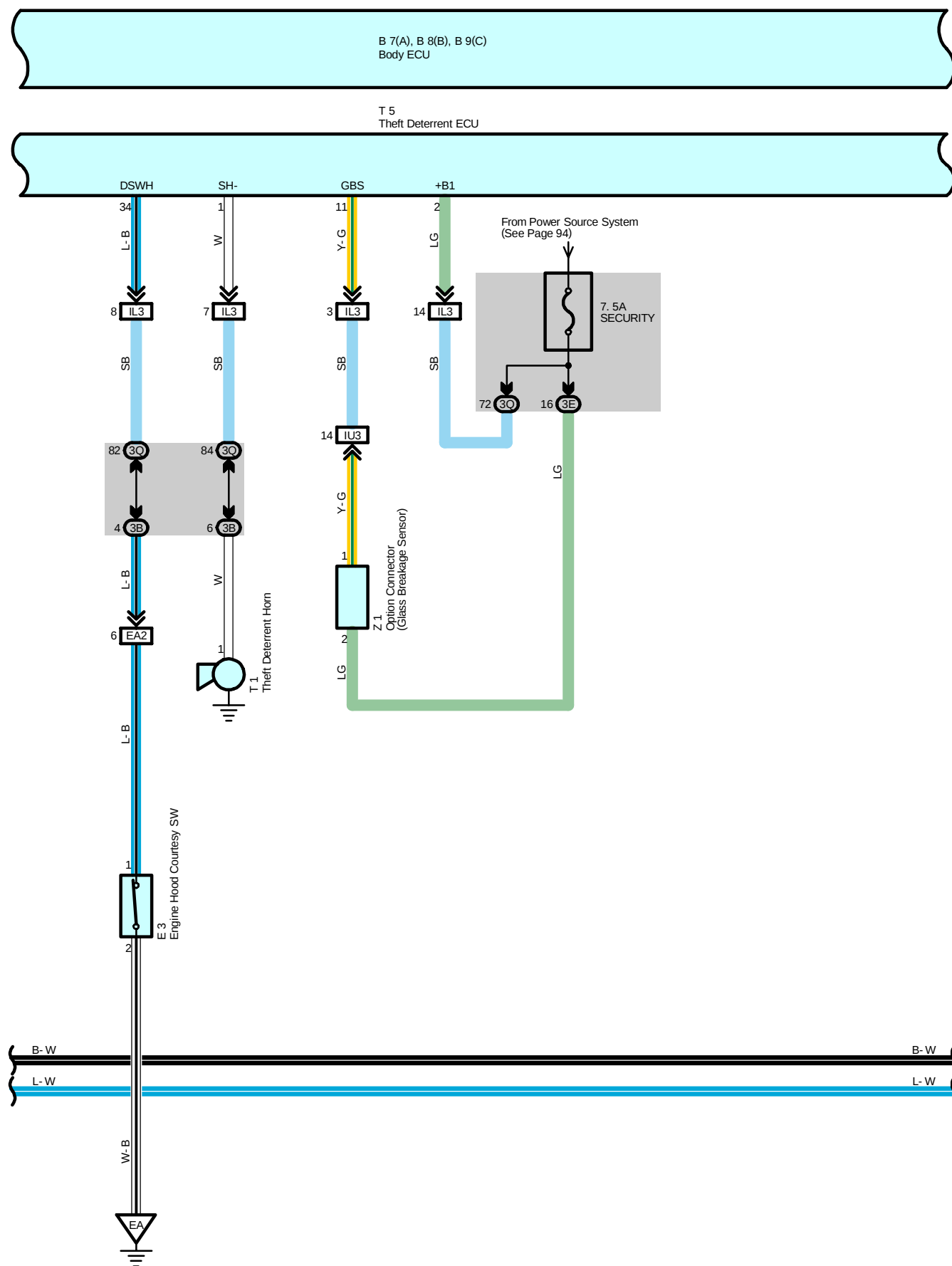
Code	See Page	Wire Harness with Splice Points	Code	See Page	Wire Harness with Splice Points
B2	88	Front Door LH Wire	B8	88	Front Door RH Wire
B5	88	Floor No.1 Wire	B11	88	Floor No.1 Wire
B6			B15	88	Back Door Upper Wire

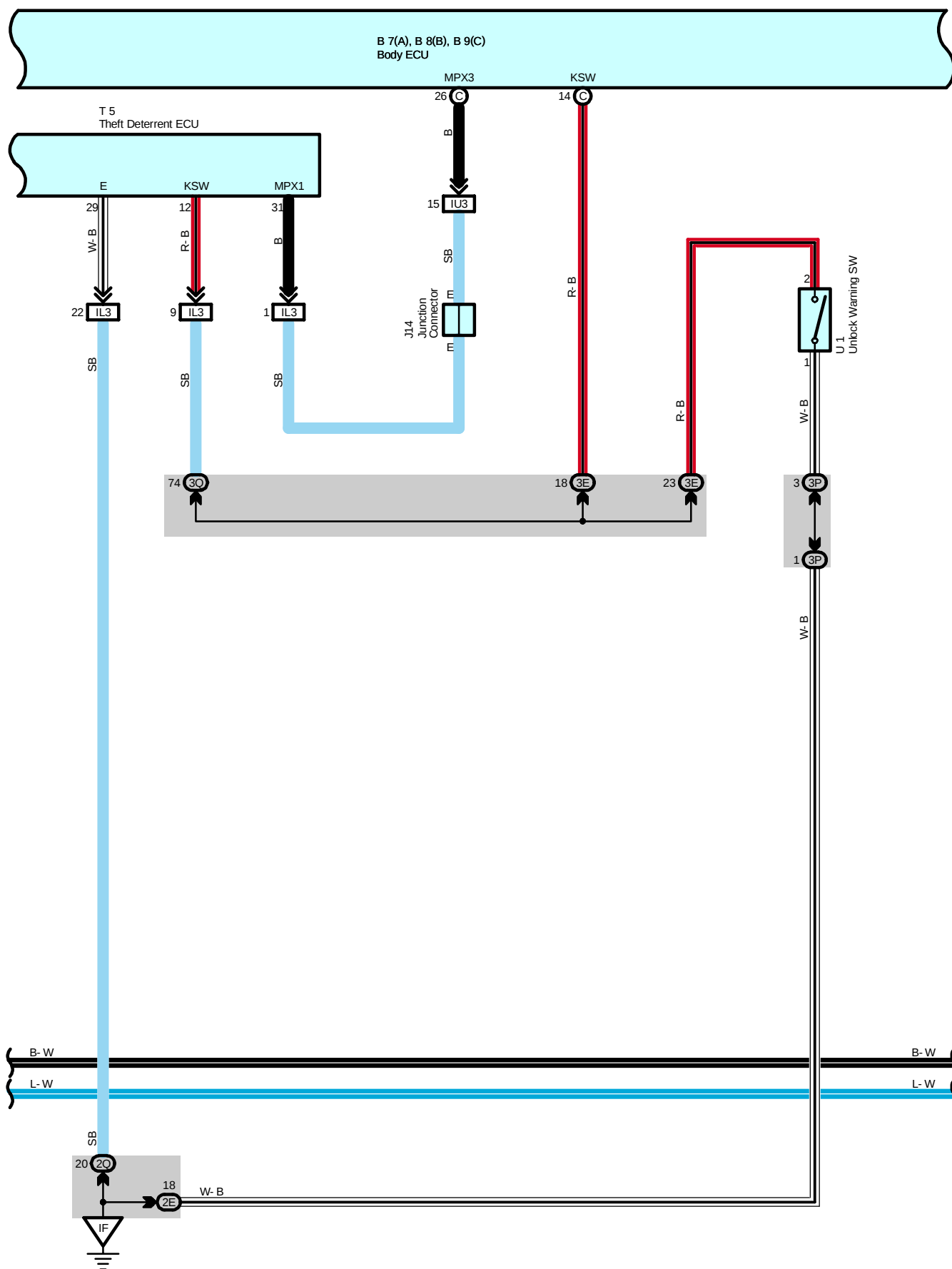
Theft Deterrent



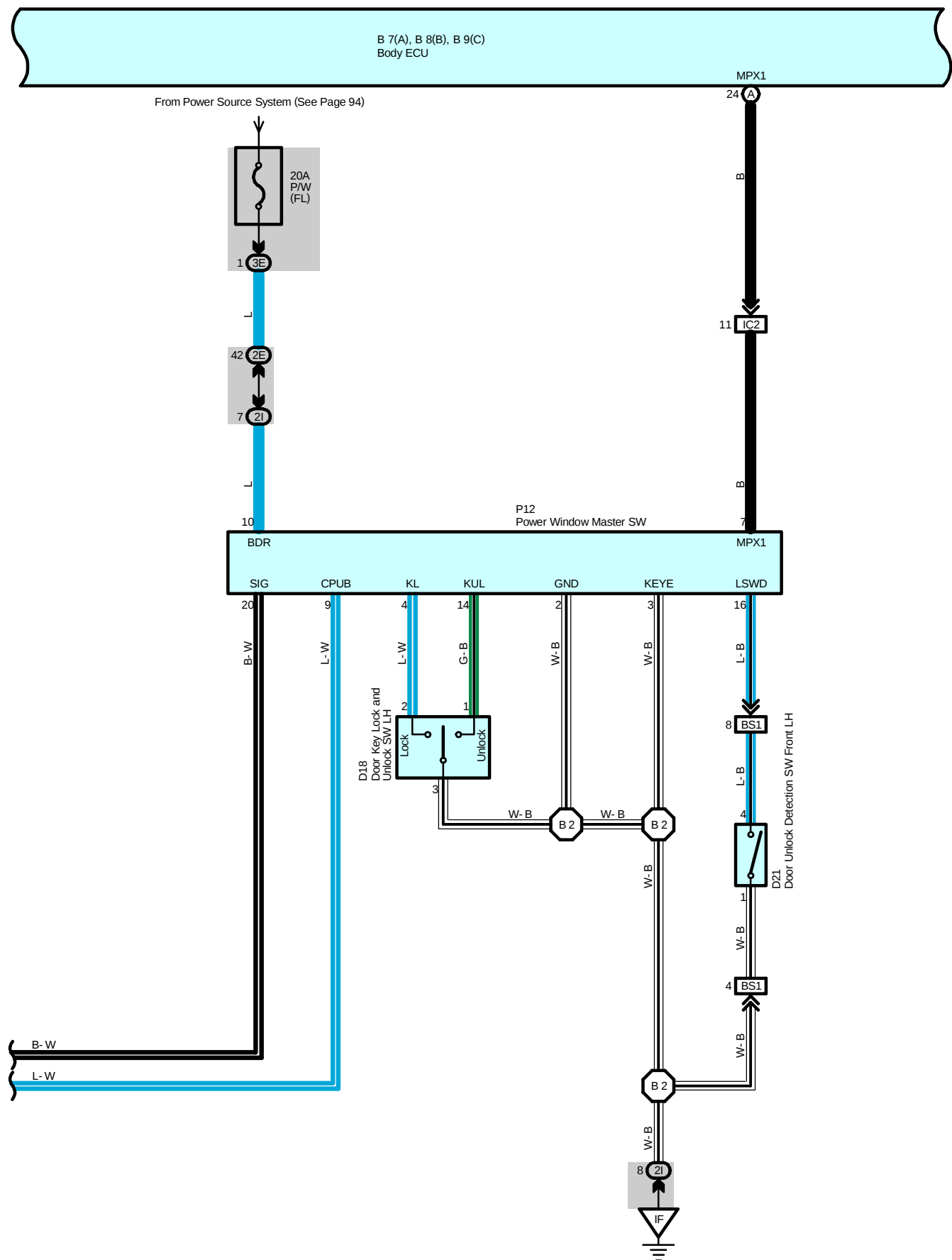


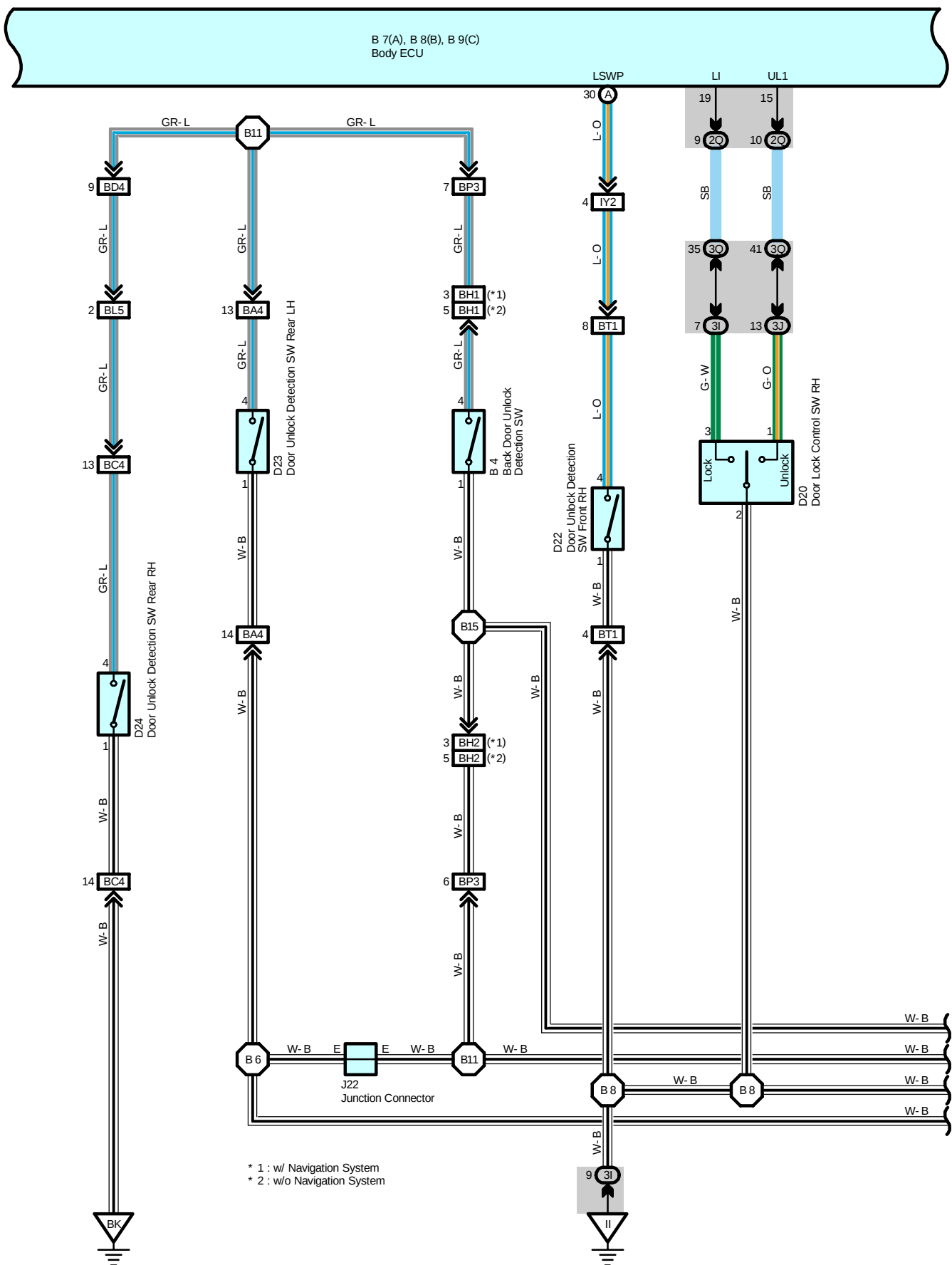
Theft Deterrent



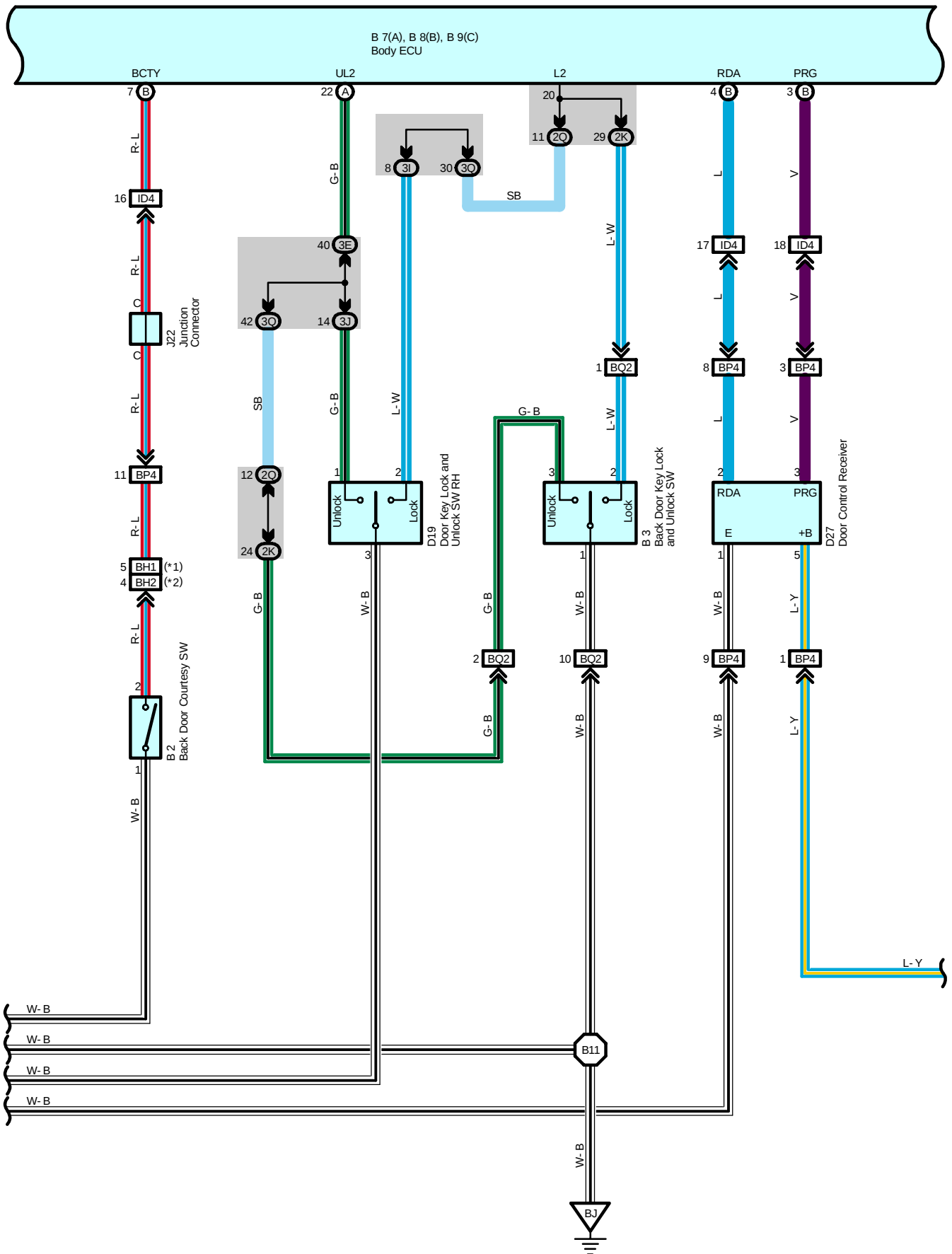


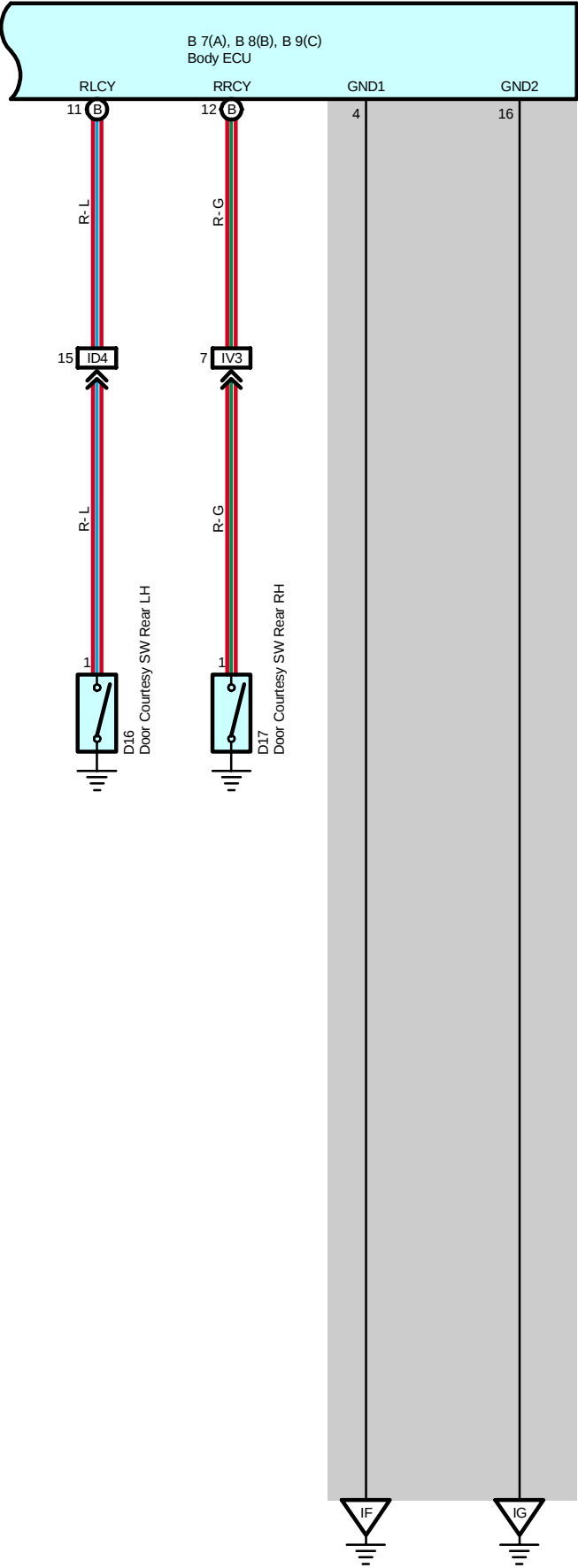
Theft Deterrent





Theft Deterrent





Service Hints

D18, D19 Door Key Lock and Unlock SW LH, RH

- 1-3 : Closed with door lock cylinder unlocked with key
- 2-3 : Closed with door lock cylinder locked with key

B3 Back Door Key Lock and Unlock SW

- 3-1 : Closed with door lock cylinder unlocked with key
- 2-1 : Closed with door lock cylinder locked with key

E3 Engine Hood Courtesy SW

- 1-2 : Opened with engine hood open

U1 Unlock Warning SW

- 2-1 : Closed with ignition key in cylinder

T5 Theft Deterrent ECU

- 2, 3-Ground : Always approx. 12 volts
- 10-Ground : Approx. 12 volts with ignition SW at ON or ST position
- 29-Ground : Always continuity
- 12-Ground : Continuity with ignition key in cylinder
- 34-Ground : Continuity with engine hood close

○ : Parts Location

Code	See Page	Code	See Page	Code	See Page
B2	72	D18	72	J10	71
B3	72	D19	72	J14	71
B4	72	D20	72	J22	72
B7	A 70	D21	72	M5	A 71
B8	B 70	D22	72	M9	B 71
B9	C 70	D23	72	P12	73
D7	70	D24	72	T1	69
D14	72	D27	72	T5	71
D15	72	E3	68	U1	71
D16	72	F15	68	Z1	71
D17	72	J9	71		

○ : Junction Block and Wire Harness Connector

Code	See Page	Junction Block and Wire Harness (Connector Location)
1B	24	Engine Room No.2 Wire and Engine Room J/B (Engine Compartment Left)
1C		
2B	28	Engine Room No.2 Wire and Cowl Side J/B LH (Left Kick Panel)
2E	28	Dash Wire and Cowl Side J/B LH (Left Kick Panel)
2G		
2I	28	Front Door LH Wire and Cowl Side J/B LH (Left Kick Panel)
2K	28	Floor No.1 Wire and Cowl Side J/B LH (Left Kick Panel)
2Q	30	Instrument Panel Integration Wire and Cowl Side J/B LH (Left Kick Panel)
3B	40	Engine Room No.2 Wire and Cowl Side J/B RH (Right Kick Panel)
3D	40	Dash Wire and Cowl Side J/B RH (Right Kick Panel)
3E		
3I	40	Front Door RH Wire and Cowl Side J/B RH (Right Kick Panel)
3J		
3K	40	Floor No.2 Wire and Cowl Side J/B RH (Right Kick Panel)
3P	43	Dash Wire and Cowl Side J/B RH (Right Kick Panel)
3Q	42	Instrument Panel Integration Wire and Cowl Side J/B RH (Right Kick Panel)
4D	52	Dash Wire and J/B No.4 (Instrument Panel Center)
5B	56	Dash Wire and J/B No.5 (Behind the Combination Meter)
5D	56	Engine Room No.2 Wire and J/B No.5 (Behind the Combination Meter)
7B	64	Dash Wire and J/B No.7 (Behind the Grove Box)

Theft Deterrent

: Connector Joining Wire Harness and Wire Harness

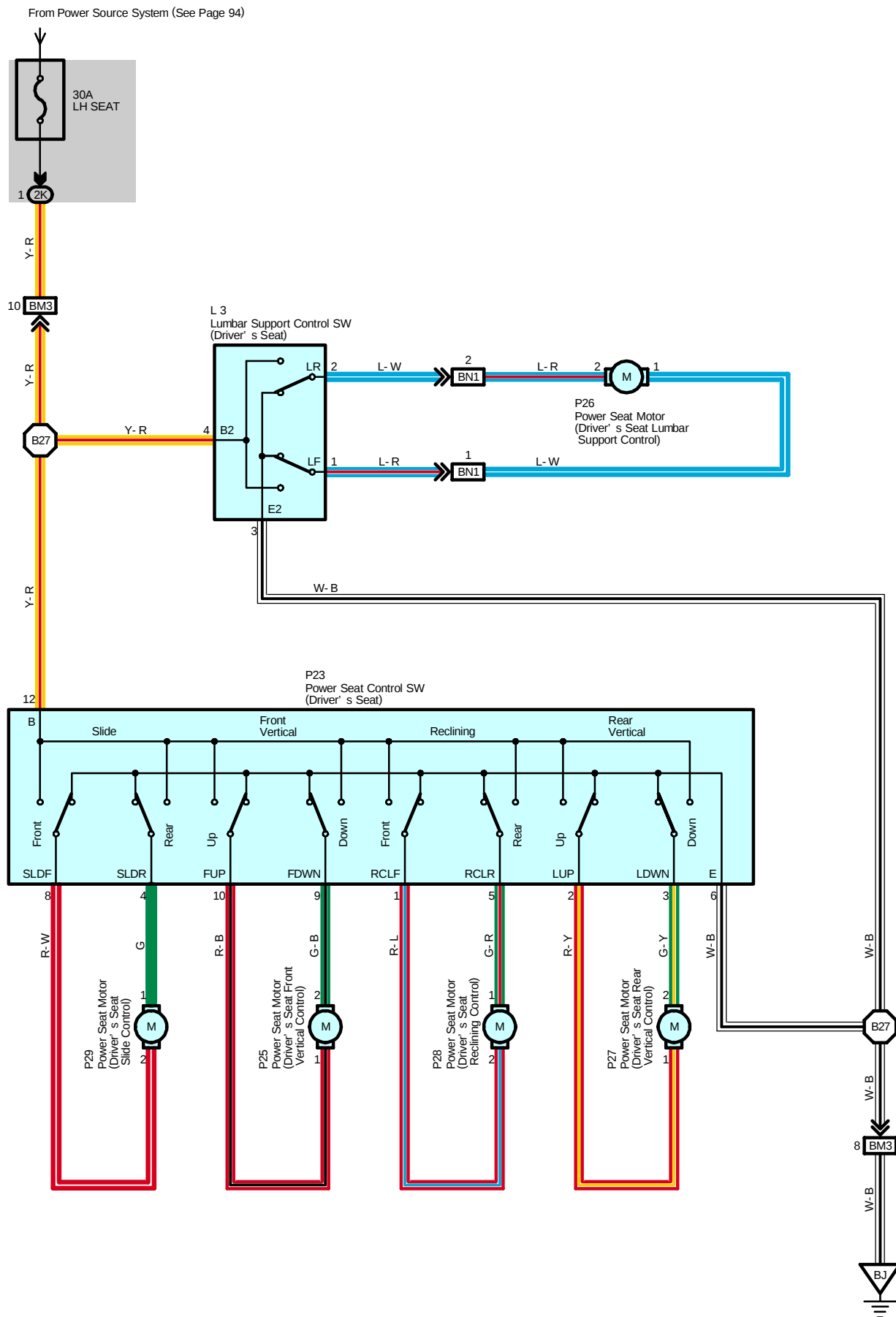
Code	See Page	Joining Wire Harness and Wire Harness (Connector Location)
EA2	76	Engine Room Main Wire and Engine Room No.2 Wire (Engine Compartment Right)
IC2	78	Front Door LH Wire and Dash Wire (Left Kick Panel)
ID4	78	Dash Wire and Floor No.1 Wire (Left Kick Panel)
IL3	80	Instrument Panel Integration Wire and Computer Wire (Instrument Panel Center)
IU3	82	Instrument Panel Integration Wire and Dash Wire (Behind the Glove Box)
IV3	82	Dash Wire and Floor No.2 Wire (Right Kick Panel)
IY2	82	Front Door RH Wire and Dash Wire (Right Kick Panel)
BA4	86	Rear Door LH Wire and Floor No.1 Wire (Left Side of Center Pillar)
BC4	86	Rear Door RH Wire and Floor No.2 Wire (Right Side of Center Pillar)
BD4	86	Floor No.3 Wire and Floor No.1 Wire (Left Rear Side Quarter Panel)
BH1	86	Pillar No.1 Wire and Back Door Upper Wire (Left Side of Back Door)
BH2		
BL5	88	Floor No.2 Wire and Floor No.3 Wire (Right Side of Rear Floor Crossmember)
BP3	88	Pillar No.1 Wire and Floor No.1 Wire (Left Rear Side Quarter Panel)
BP4		
BQ2	88	Back Door Lower Wire and Floor No.1 Wire (Left Rear Side Quarter Panel)
BS1	88	Door Lock LH Sub Wire and Front Door LH Wire (Front Door LH)
BT1	88	Door Lock RH Sub Wire and Front Door RH Wire (Front Door RH)

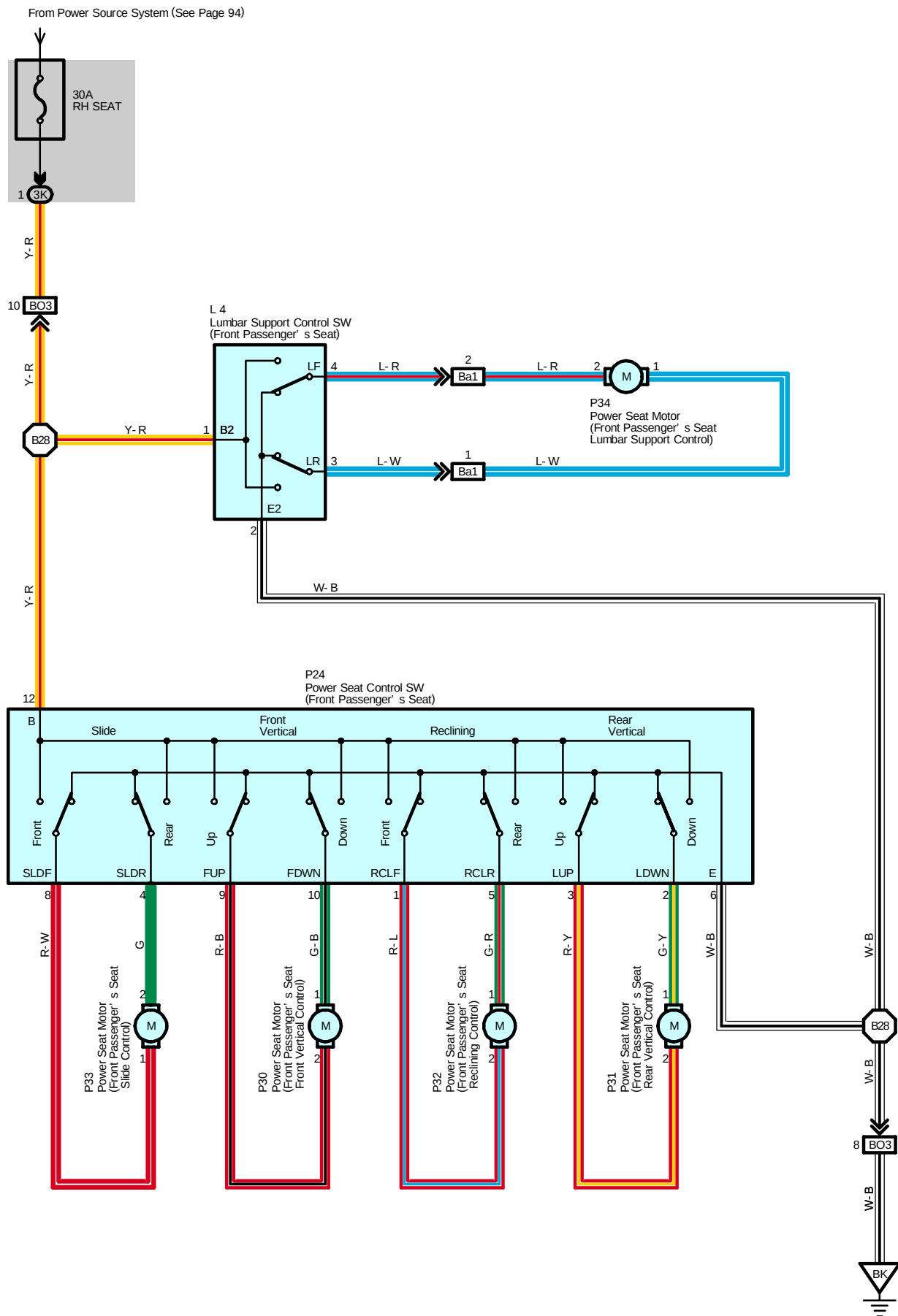
: Ground Points

Code	See Page	Ground Points Location
EA	76	Front Right Side of Fender Apron
IF	78	Set Bolt of Cowl Side J/B LH
IG		
II	78	Set Bolt of Cowl Side J/B RH
BJ	86	Under the Driver's Seat
BK	86	Front Side Under the Front Passenger's Seat

: Splice Points

Code	See Page	Wire Harness with Splice Points	Code	See Page	Wire Harness with Splice Points
B2	88	Front Door LH Wire	B11	88	Floor No.1 Wire
B6	88	Floor No.1 Wire	B15	88	Back Door Upper Wire
B8	88	Front Door RH Wire			





Power Seat

Service Hints

P23 Power Seat Control SW (Driver's Seat)

- 12-1 : Closed with driver's seat at front reclining operation
- 12-5 : Closed with driver's seat at rear reclining operation
- 12-10 : Closed with driver's seat at front vertical up operation
- 12-9 : Closed with driver's seat at front vertical down operation
- 12-2 : Closed with driver's seat at rear vertical up operation
- 12-3 : Closed with driver's seat at rear vertical down operation
- 12-8 : Closed with driver's seat at front slide operation
- 12-4 : Closed with driver's seat at rear slide operation
- 6-Ground : Always continuity

P24 Power Seat Control SW (Front Passenger's Seat)

- 12-1 : Closed with front passenger's seat at front reclining operation
- 12-5 : Closed with front passenger's seat at rear reclining operation
- 12-9 : Closed with front passenger's seat at front vertical up operation
- 12-10 : Closed with front passenger's seat at front vertical down operation
- 12-3 : Closed with front passenger's seat at rear vertical up operation
- 12-2 : Closed with front passenger's seat at rear vertical down operation
- 12-8 : Closed with front passenger's seat at front slide operation
- 12-4 : Closed with front passenger's seat at rear slide operation
- 6-Ground : Always continuity

: Parts Location

Code	See Page	Code	See Page	Code	See Page
L3	74	P26	74	P31	74
L4	74	P27	74	P32	74
P23	74	P28	74	P33	74
P24	74	P29	74	P34	74
P25	74	P30	74		

: Junction Block and Wire Harness Connector

Code	See Page	Junction Block and Wire Harness (Connector Location)
2K	28	Floor No.1 Wire and Cowl Side J/B LH (Left Kick Panel)
3K	40	Floor No.2 Wire and Cowl Side J/B RH (Right Kick Panel)

: Connector Joining Wire Harness and Wire Harness

Code	See Page	Joining Wire Harness and Wire Harness (Connector Location)
BM3	90	Floor No.1 Wire and Front Seat LH Wire (Front Side Under the Driver's Seat)
BN1	90	Seat No.2 Wire and Front Seat LH Wire (Rear Side Under the Driver's Seat)
BO3	90	Floor No.2 Wire and Front Seat RH Wire (Front Side Under the Front Passenger's Seat)
Ba1	90	Seat No.2 Wire and Front Seat RH Wire (Rear Side Under the Front Passenger's Seat)

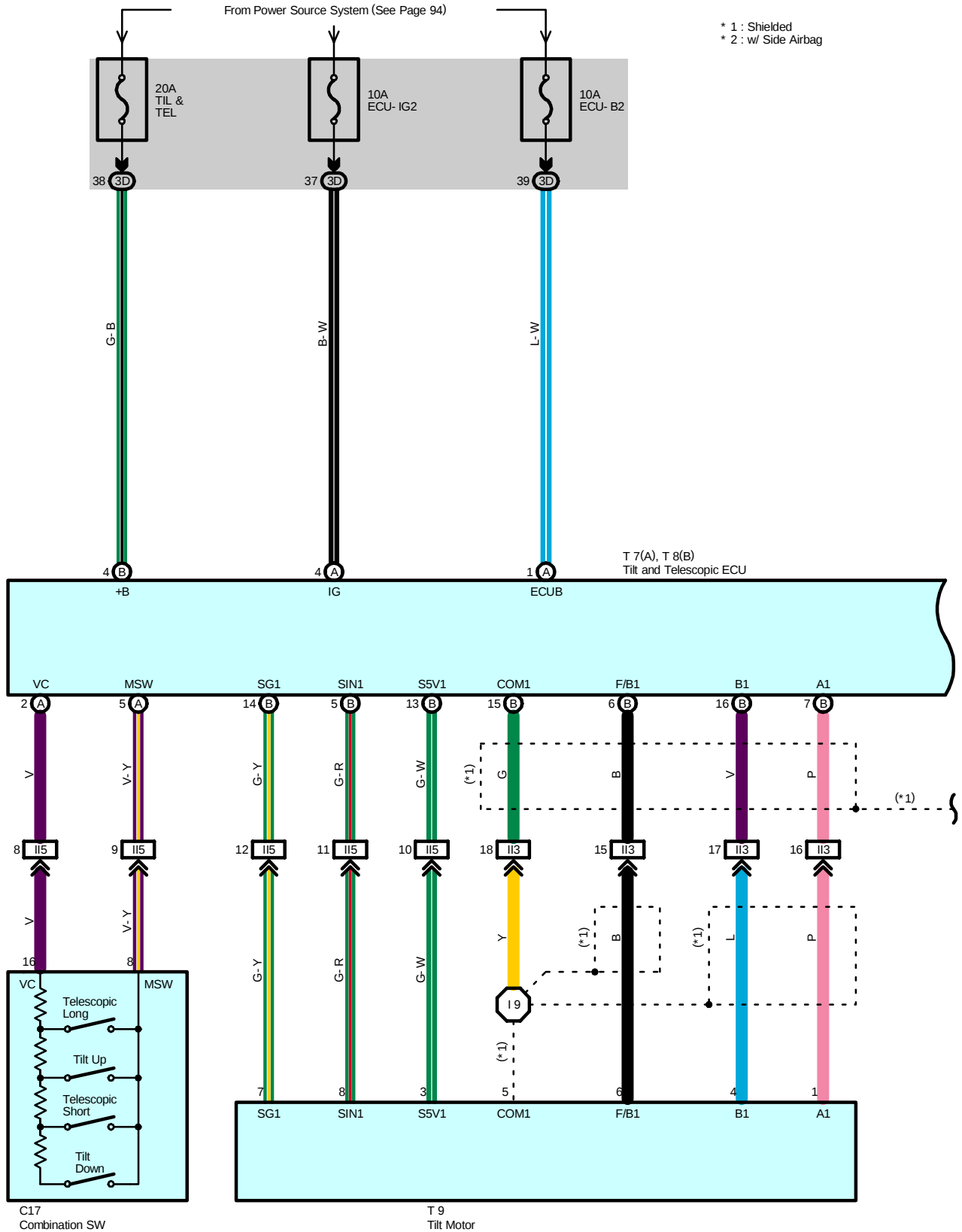
: Ground Points

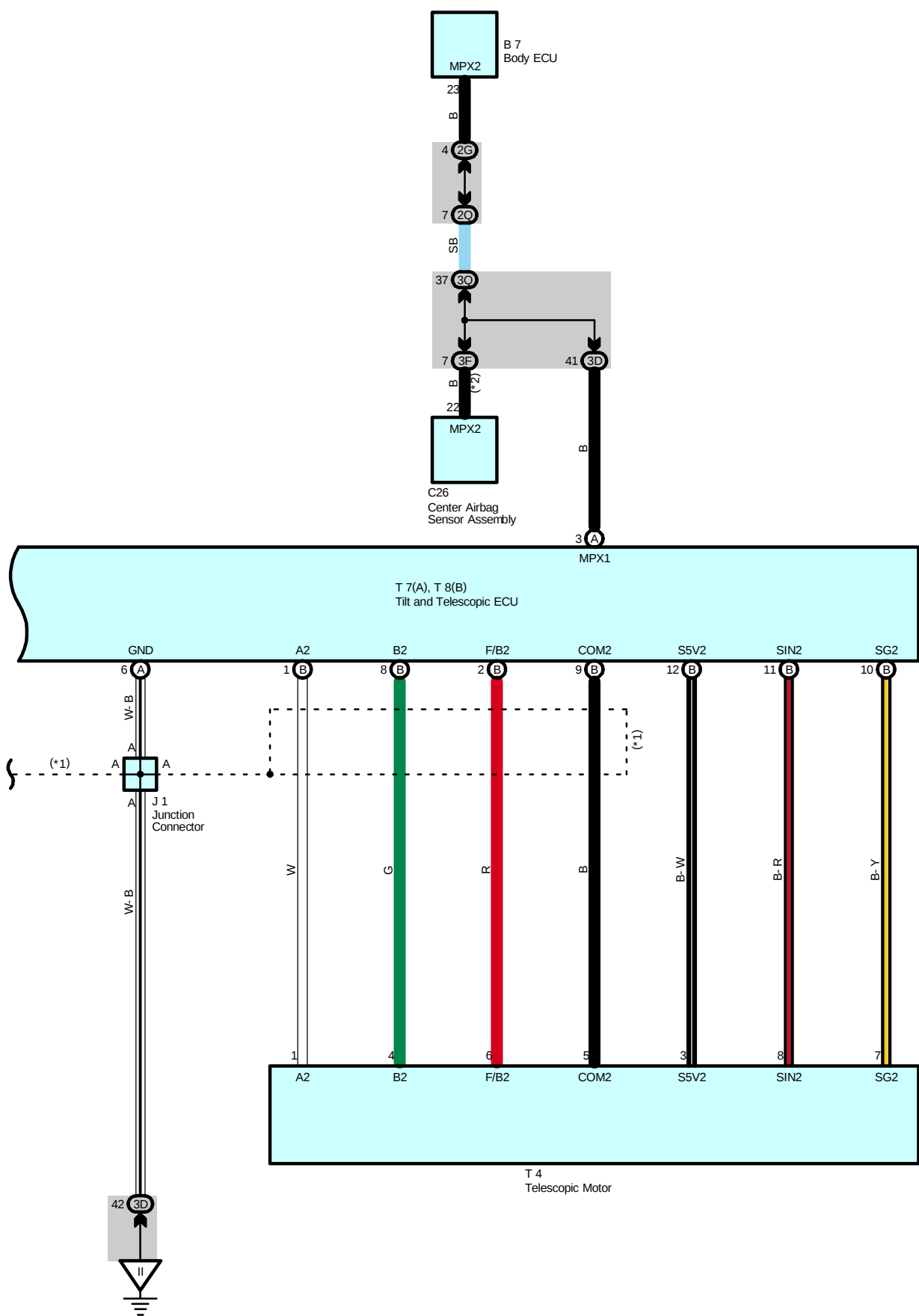
Code	See Page	Ground Points Location
BJ	86	Under the Driver's Seat
BK	86	Front Side Under the Front Passenger's Seat

: Splice Points

Code	See Page	Wire Harness with Splice Points	Code	See Page	Wire Harness with Splice Points
B27	90	Front Seat LH Wire	B28	90	Front Seat RH Wire

Power Tilt and Power Telescopic





Power Tilt and Power Telescopic

System Outline

This system provides the automatic tilt and telescopic mechanisms using the motor drive, tilt and telescopic ECU control, allowing variable steering movement in the back and forth, and vertical directions. This makes it possible to set the steering to the desired steering position.

Service Hints

T7 (A), T8 (B) Tilt and Telescopic ECU

- (A) 1-Ground : Always approx. 12 volts
- (B) 4-Ground : Always approx. 12 volts
- (A) 4-Ground : Approx. 12 volts with ignition SW at ON or ST position
- (A) 6-Ground : Always continuity

C17 Combination SW

- 16-8 : Approx. 160 Ω with telescopic long operation
- : Approx. 360 Ω with tilt up operation
- : Approx. 790 Ω with telescopic short operation
- : Approx. 1.99 k Ω with tilt down operation

○ : Parts Location

Code	See Page	Code	See Page	Code	See Page
B7	70	J1	71	T8 B	71
C17	70	T4	71	T9	71
C26	70	T7 A	71		

○ : Junction Block and Wire Harness Connector

Code	See Page	Junction Block and Wire Harness (Connector Location)
2G	28	Dash Wire and Cowl Side J/B LH (Left Kick Panel)
2Q	30	Instrument Panel Integration Wire and Cowl Side J/B LH (Left Kick Panel)
3D	40	Dash Wire and Cowl Side J/B RH (Right Kick Panel)
3F		
3Q	42	Instrument Panel Integration Wire and Cowl Side J/B RH (Right Kick Panel)

□ : Connector Joining Wire Harness and Wire Harness

Code	See Page	Joining Wire Harness and Wire Harness (Connector Location)
II3	80	Dash Wire and Column Wire (Near the Ignition SW)
II5		

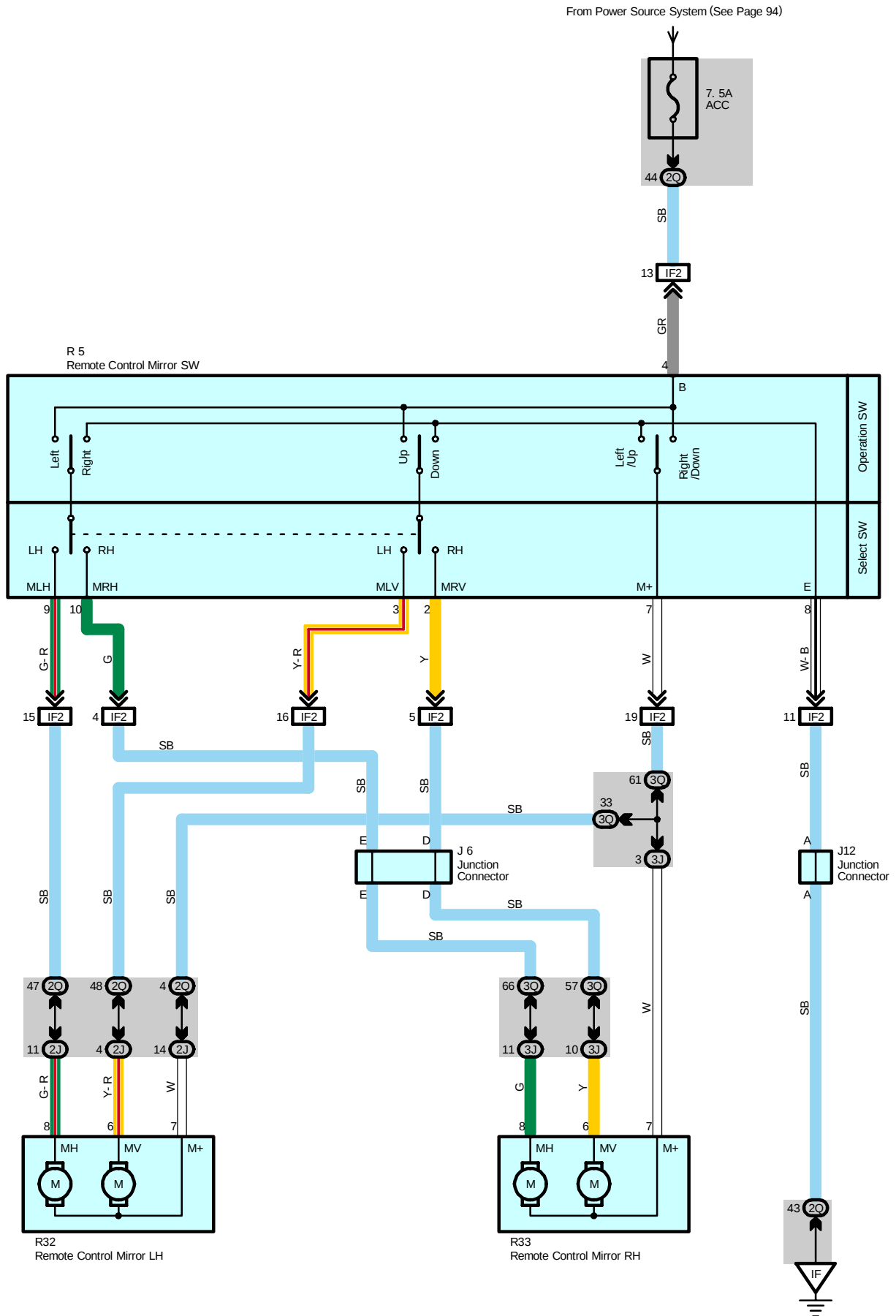
▽ : Ground Points

Code	See Page	Ground Points Location
II	78	Set Bolt of Cowl Side J/B RH

○ : Splice Points

Code	See Page	Wire Harness with Splice Points	Code	See Page	Wire Harness with Splice Points
I9	80	Column Wire			

Remote Control Mirror



Service Hints

R5 Remote Control Mirror SW

- 7-8 : Continuity with operation SW at LEFT or UP position
- 4-7 : Continuity with operation SW at RIGHT or DOWN position
- 4-9 : Continuity with operation SW at LEFT position and the select SW at LH position
- 4-3 : Continuity with operation SW at UP position and the select SW at LH position
- 8-10 : Continuity with operation SW at RIGHT position and the select SW at RH position
- 2-8 : Continuity with operation SW at DOWN position and the select SW at RH position
- 4-Ground : Approx. 12 volts with ignition SW at ACC or ON position
- 8-Ground : Always continuity

: Parts Location

Code	See Page	Code	See Page	Code	See Page
J6	71	R5	71	R33	73
J12	71	R32	73		

: Junction Block and Wire Harness Connector

Code	See Page	Junction Block and Wire Harness (Connector Location)
2J	28	Front Door LH Wire and Cowl Side J/B LH (Left Kick Panel)
2Q	30	Instrument Panel Integration Wire and Cowl Side J/B LH (Left Kick Panel)
3J	40	Front Door RH Wire and Cowl Side J/B RH (Right Kick Panel)
3Q	42	Instrument Panel Integration Wire and Cowl Side J/B RH (Right Kick Panel)

: Connector Joining Wire Harness and Wire Harness

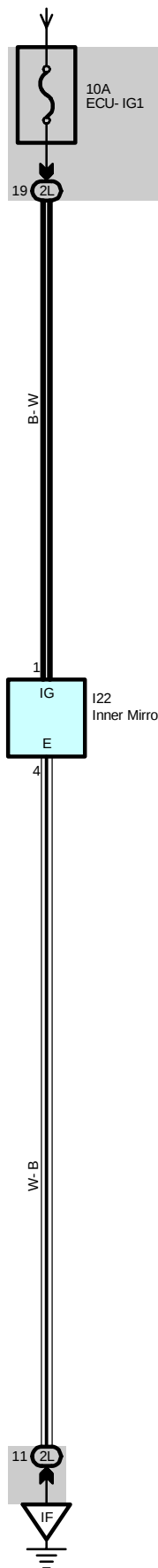
Code	See Page	Joining Wire Harness and Wire Harness (Connector Location)
IF2	78	Instrument Panel Integration Wire and Instrument Panel Wire (Left Side of Instrument Panel)

: Ground Points

Code	See Page	Ground Points Location
IF	78	Set Bolt of Cowl Side J/B LH

Automatic Glare-Resistant EC Mirror with Compass

From Power Source System (See Page 94)



Service Hints

I22 Inner Mirror

- 1-Ground : Approx. 12 volts with ignition SW at ON or ST position
- 4-Ground : Always continuity

: Parts Location

Code	See Page	Code	See Page	Code	See Page
I22	72				

: Junction Block and Wire Harness Connector

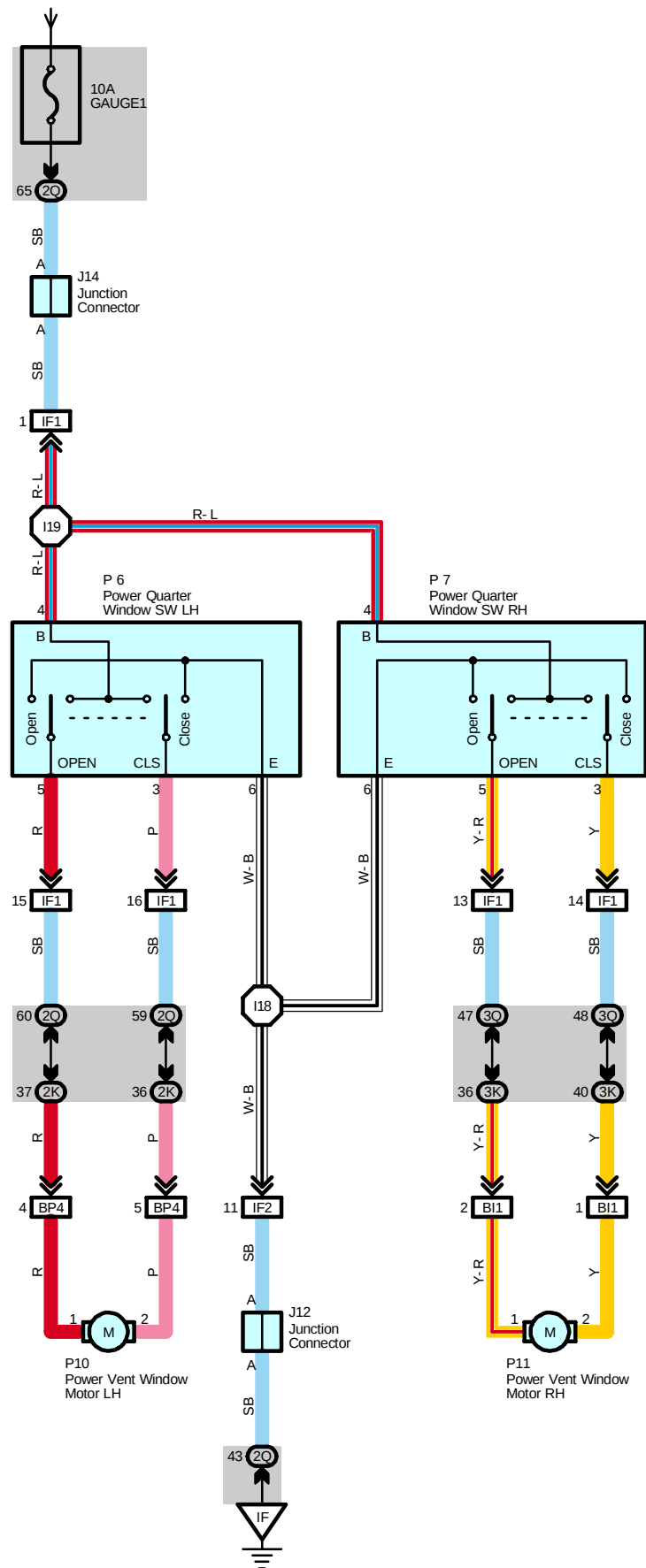
Code	See Page	Junction Block and Wire Harness (Connector Location)
2L	28	Roof No.1 Wire and Cowl Side J/B LH (Left Kick Panel)

: Ground Points

Code	See Page	Ground Points Location
IF	78	Set Bolt of Cowl Side J/B LH

Power Rear Quarter Window

From Power Source System (See Page 94)



Service Hints

P6 Power Quarter Window SW LH

4-Ground : Approx. 12 volts with ignition SW at ON or ST position

6-Ground : Always continuity

P7 Power Quarter Window SW RH

4-Ground : Approx. 12 volts with ignition SW at ON or ST position

6-Ground : Always continuity

: Parts Location

Code	See Page	Code	See Page	Code	See Page
J12	71	P6	71	P10	73
J14	71	P7	71	P11	73

: Junction Block and Wire Harness Connector

Code	See Page	Junction Block and Wire Harness (Connector Location)
2K	28	Floor No.1 Wire and Cowl Side J/B LH (Left Kick Panel)
2Q	30	Instrument Panel Integration Wire and Cowl Side J/B LH (Left Kick Panel)
3K	40	Floor No.2 Wire and Cowl Side J/B RH (Right Kick Panel)
3Q	42	Instrument Panel Integration Wire and Cowl Side J/B RH (Right Kick Panel)

: Connector Joining Wire Harness and Wire Harness

Code	See Page	Joining Wire Harness and Wire Harness (Connector Location)
IF1	78	Instrument Panel Integration Wire and Instrument Panel Wire (Left Side of Instrument Panel)
IF2		
BI1	86	Roof No.2 Wire and Floor No.2 Wire (Right Side Rear Quarter Panel)
BP4	88	Pillar No.1 Wire and Floor No.1 Wire (Left Rear Side Quarter Panel)

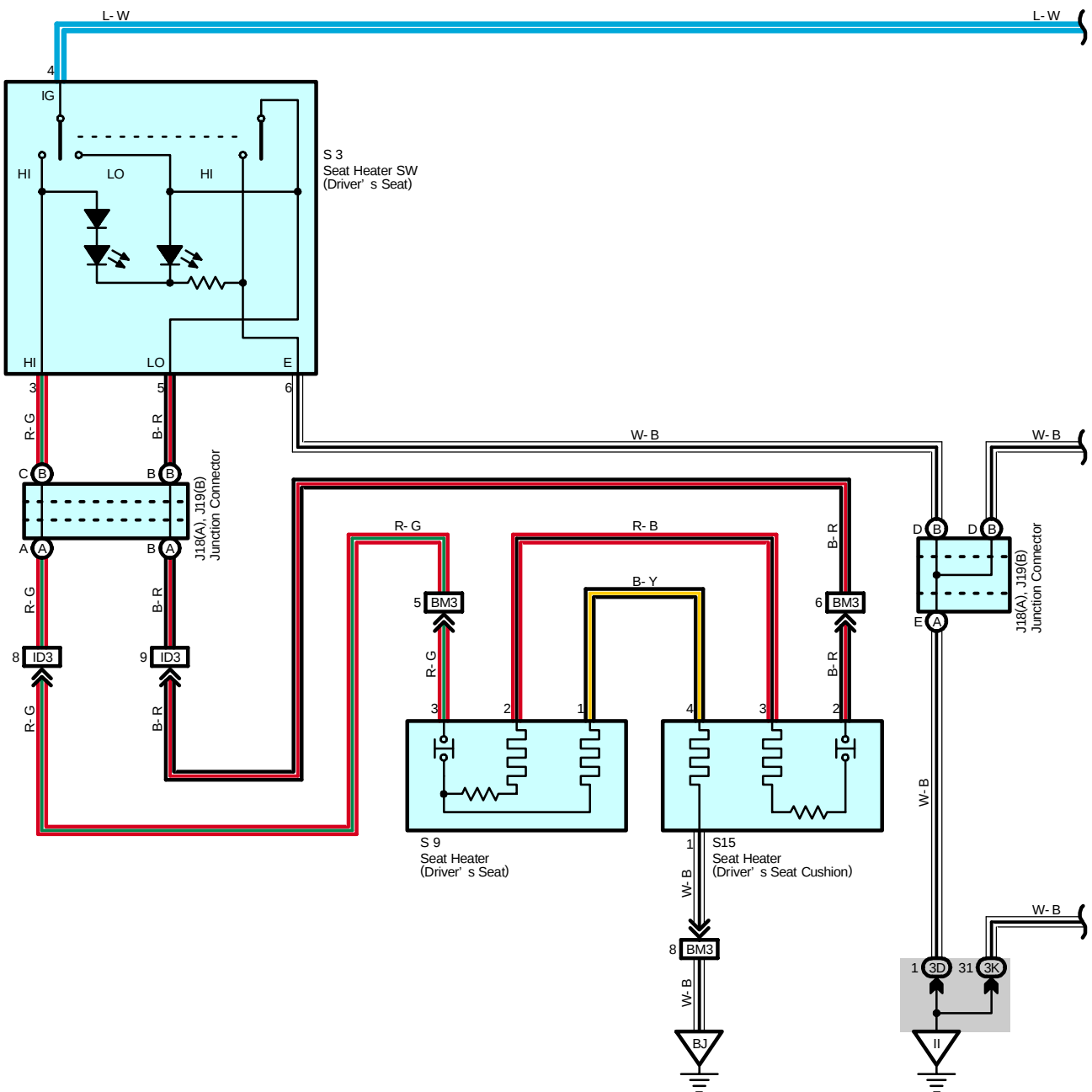
: Ground Points

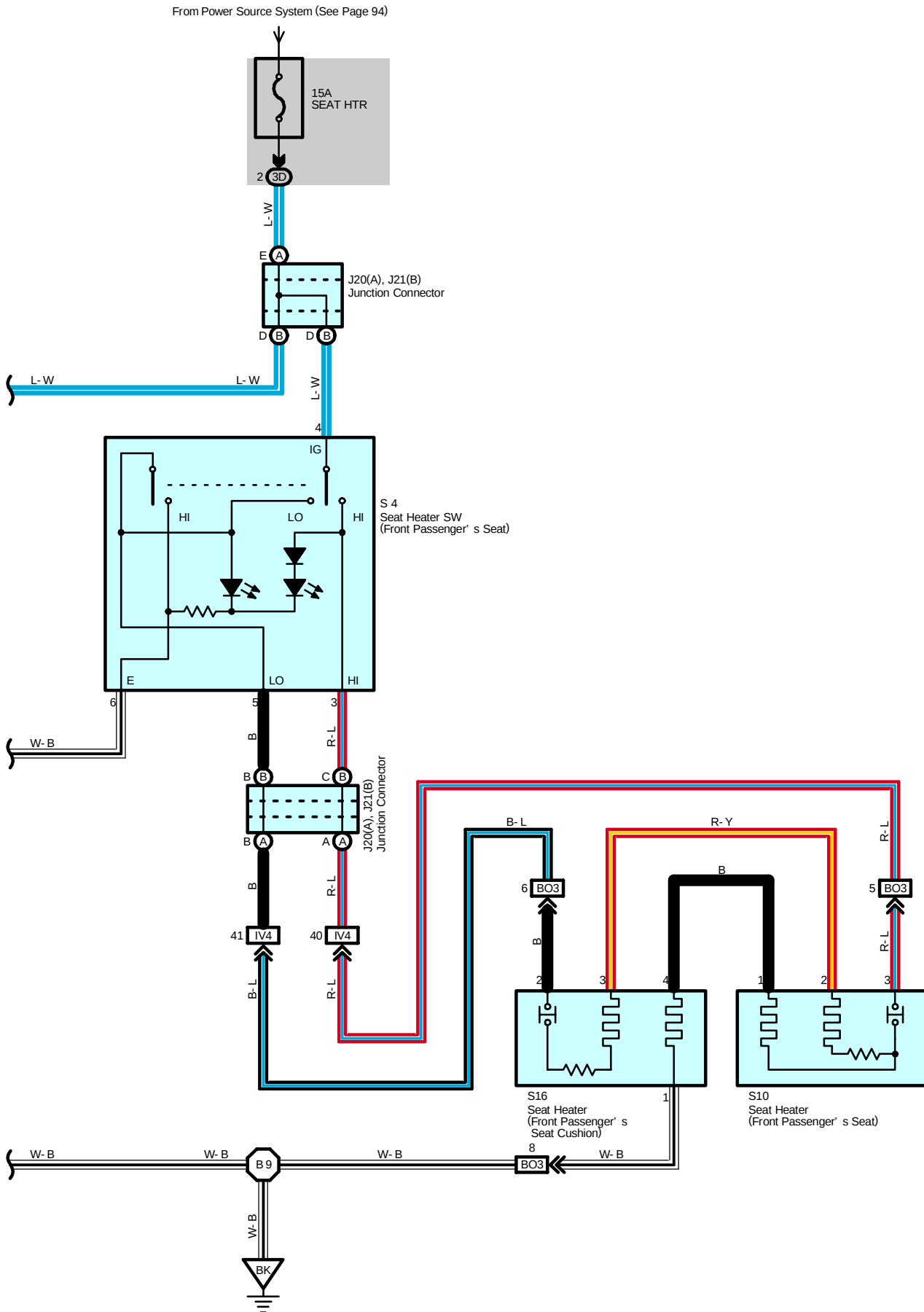
Code	See Page	Ground Points Location
IF	78	Set Bolt of Cowl Side J/B LH

: Splice Points

Code	See Page	Wire Harness with Splice Points	Code	See Page	Wire Harness with Splice Points
I18	80	Instrument Panel Wire	I19	80	Instrument Panel Wire

Seat Heater





Seat Heater

Service Hints

S3 Seat Heater SW (Driver's Seat)

4-Ground : Approx. 12 volts with ignition SW at ON or ST position

6-Ground : Always continuity

S4 Seat Heater SW (Front Passenger's Seat)

4-Ground : Approx. 12 volts with ignition SW at ON or ST position

6-Ground : Always continuity

○ : Parts Location

Code		See Page	Code	See Page	Code	See Page
J18	A	71	S3	71	S15	74
J19	B	71	S4	71	S16	74
J20	A	71	S9	74		
J21	B	71	S10	74		

○ : Junction Block and Wire Harness Connector

Code	See Page	Junction Block and Wire Harness (Connector Location)
3D	40	Dash Wire and Cowl Side J/B RH (Right Kick Panel)
3K	40	Floor No.2 Wire and Cowl Side J/B RH (Right Kick Panel)

□ : Connector Joining Wire Harness and Wire Harness

Code	See Page	Joining Wire Harness and Wire Harness (Connector Location)
ID3	78	Dash Wire and Floor No.1 Wire (Left Kick Panel)
IV4	82	Dash Wire and Floor No.2 Wire (Right Kick Panel)
BM3	90	Floor No.1 Wire and Front Seat LH Wire (Front Side Under the Driver's Seat)
BO3	90	Floor No.2 Wire and Front Seat RH Wire (Front Side Under the Front Passenger's Seat)

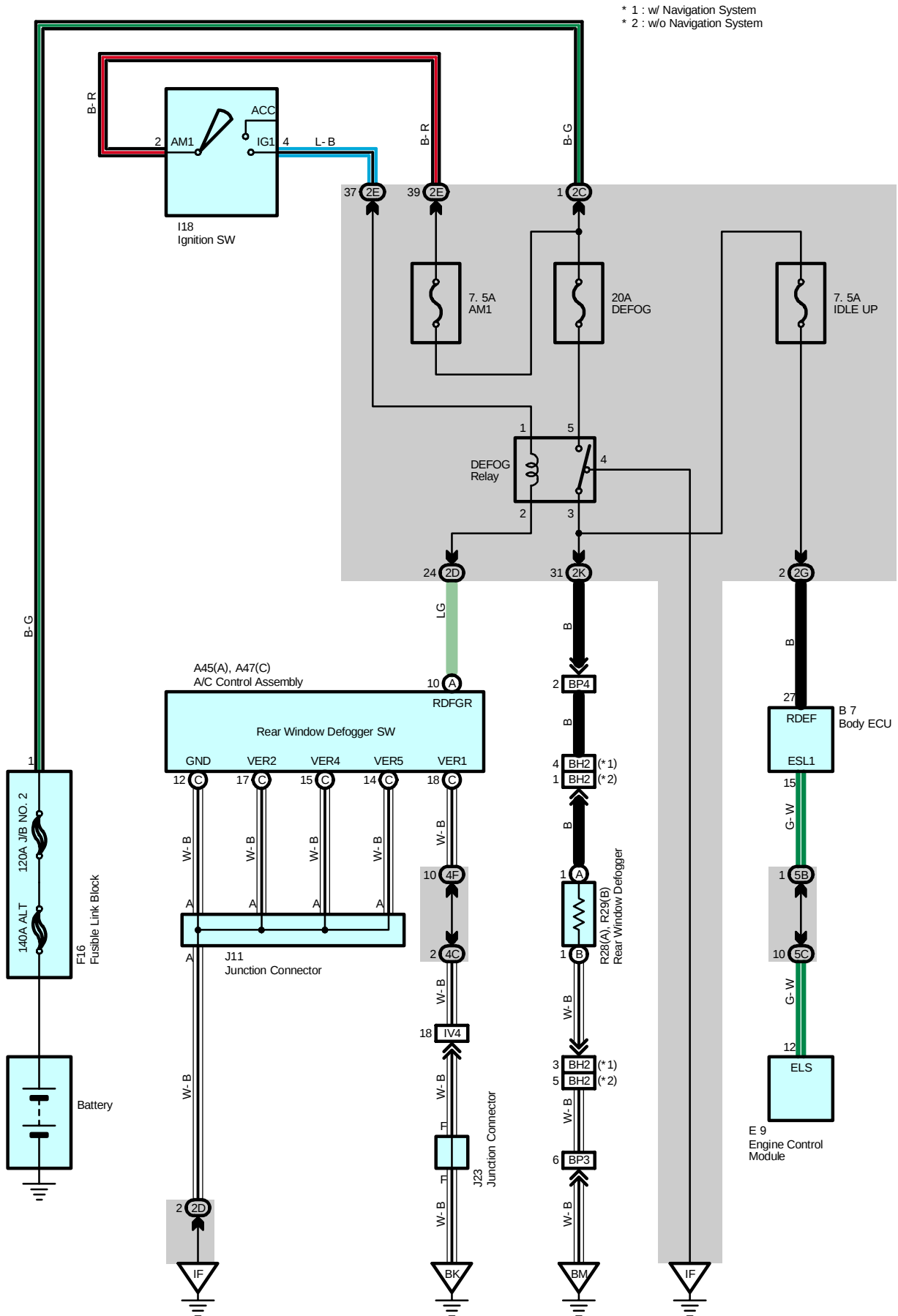
▽ : Ground Points

Code	See Page	Ground Points Location
II	78	Set Bolt of Cowl Side J/B RH
BJ	86	Under the Driver's Seat
BK	86	Front Side Under the Front Passenger's Seat

○ : Splice Points

Code	See Page	Wire Harness with Splice Points	Code	See Page	Wire Harness with Splice Points
B9	88	Floor No.2 Wire			

Rear Window Defogger



Service Hints

A45 (A), A47 (C) A/C Control Assembly

(A)10-Ground : Approx. 12 volts with ignition SW at ON or ST position

(C)12, (C) 14, (C) 15, (C) 17, (C) 18-Ground : Always continuity

○ : Parts Location

Code	See Page	Code	See Page	Code	See Page
A45 A	70	F16	68	R28 A	73
A47 C	70	I18	70	R29 B	73
B7	70	J11	71		
E9	70	J23	72		

□ : Junction Block and Wire Harness Connector

Code	See Page	Junction Block and Wire Harness (Connector Location)
2C	28	Engine Room No.2 Wire and Cowl Side J/B LH (Left Kick Panel)
2D	28	Dash Wire and Cowl Side J/B LH (Left Kick Panel)
2E		
2G		
2K	28	Floor No.1 Wire and Cowl Side J/B LH (Left Kick Panel)
4C	52	Dash Wire and J/B No.4 (Instrument Panel Center)
4F		
5B	56	Dash Wire and J/B No.5 (Behind the Combination Meter)
5C		

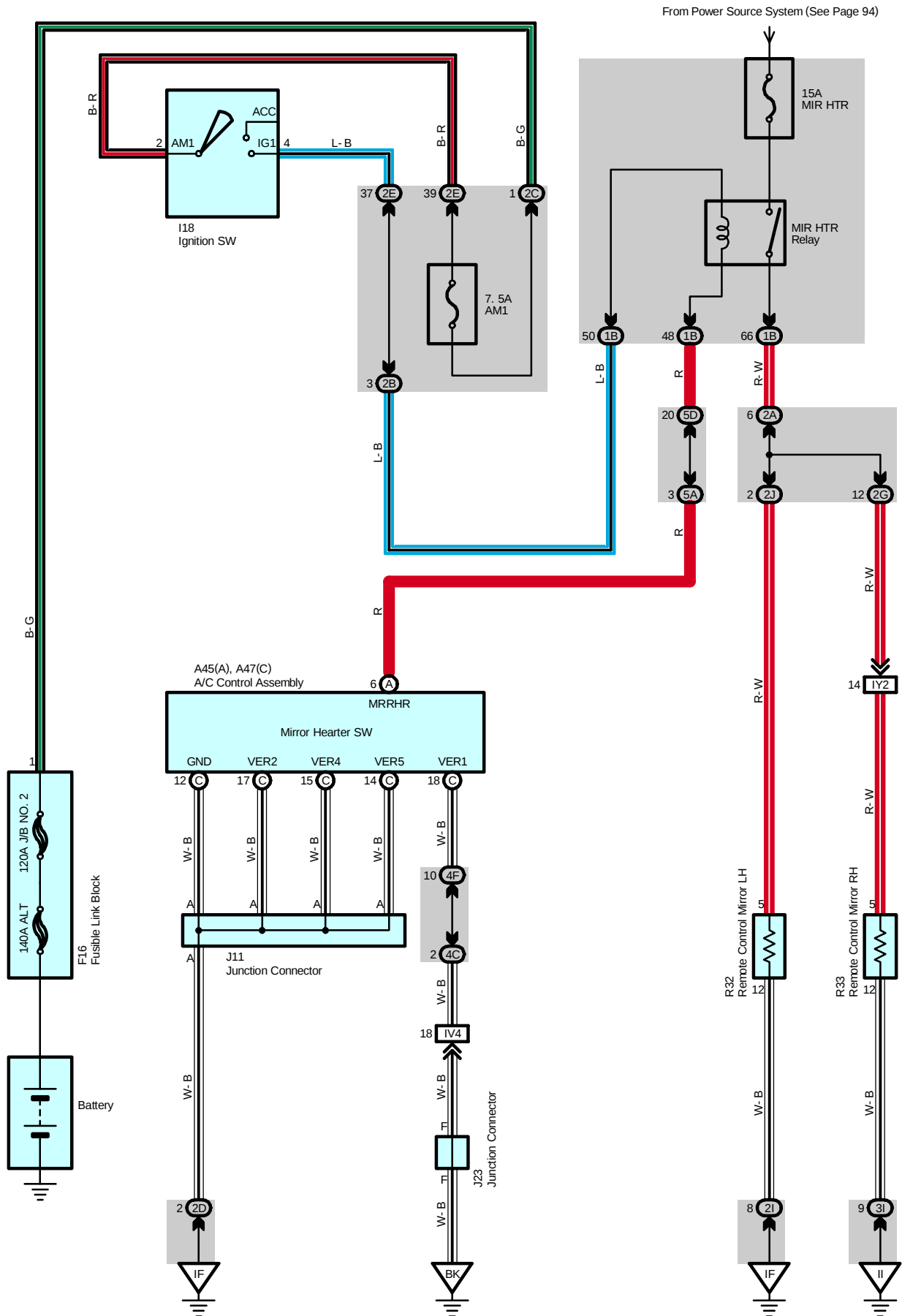
□ : Connector Joining Wire Harness and Wire Harness

Code	See Page	Joining Wire Harness and Wire Harness (Connector Location)
IV4	82	Dash Wire and Floor No.2 Wire (Right Kick Panel)
BH2	86	Pillar No.1 Wire and Back Door Upper Wire (Left Side of Back Door)
BP3	88	Pillar No.1 Wire and Floor No.1 Wire (Left Rear Side Quarter Panel)
BP4		

▽ : Ground Points

Code	See Page	Ground Points Location
IF	78	Set Bolt of Cowl Side J/B LH
BK	86	Front Side Under the Front Passenger's Seat
BM	86	Left Rear Side Quarter Panel

Mirror Heater



Service Hints

A45 (A), A47 (C) A/C Control Assembly

(A) 6-Ground : Approx. 12 volts with ignition SW at ON or ST position

(C)12, (C) 14, (C) 15, (C) 17, (C) 18-Ground : Always continuity

○ : Parts Location

Code	See Page	Code	See Page	Code	See Page
A45	A	I18	70	R32	73
A47	C	J11	71	R33	73
F16	68	J23	72		

○ : Junction Block and Wire Harness Connector

Code	See Page	Junction Block and Wire Harness (Connector Location)
1B	24	Engine Room No.2 Wire and Engine Room J/B (Engine Compartment Left)
2A	28	Engine Room No.2 Wire and Cowl Side J/B LH (Left Kick Panel)
2B		
2C		
2D	28	Dash Wire and Cowl Side J/B LH (Left Kick Panel)
2E		
2G		
2I	28	Front Door LH Wire and Cowl Side J/B LH (Left Kick Panel)
2J		
3I	40	Front Door RH Wire and Cowl Side J/B RH (Right Kick Panel)
4C	52	Dash Wire and J/B No.4 (Instrument Panel Center)
4F		
5A	56	Dash Wire and J/B No.5 (Behind the Combination Meter)
5D	56	Engine Room No.2 Wire and J/B No.5 (Behind the Combination Meter)

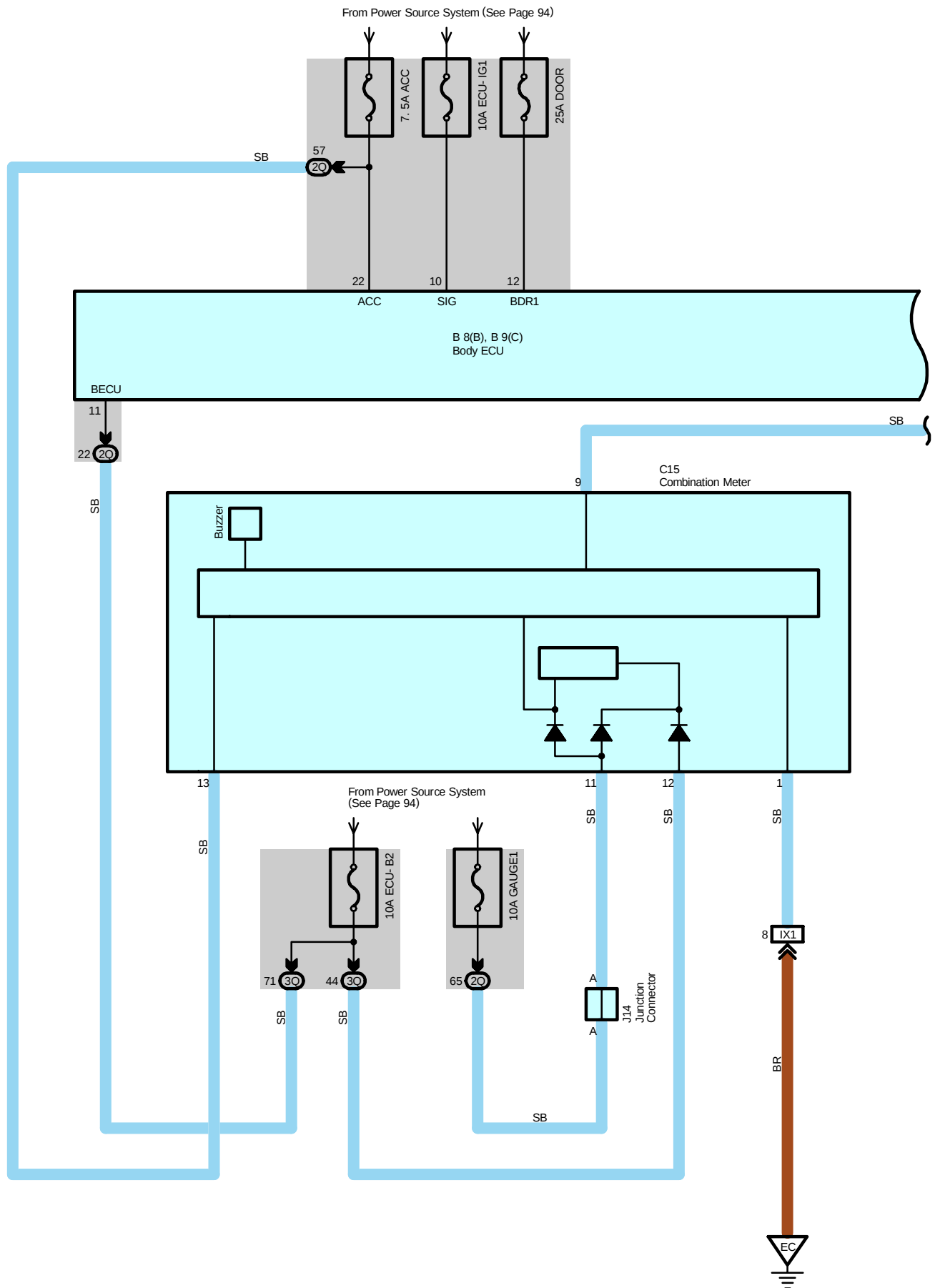
□ : Connector Joining Wire Harness and Wire Harness

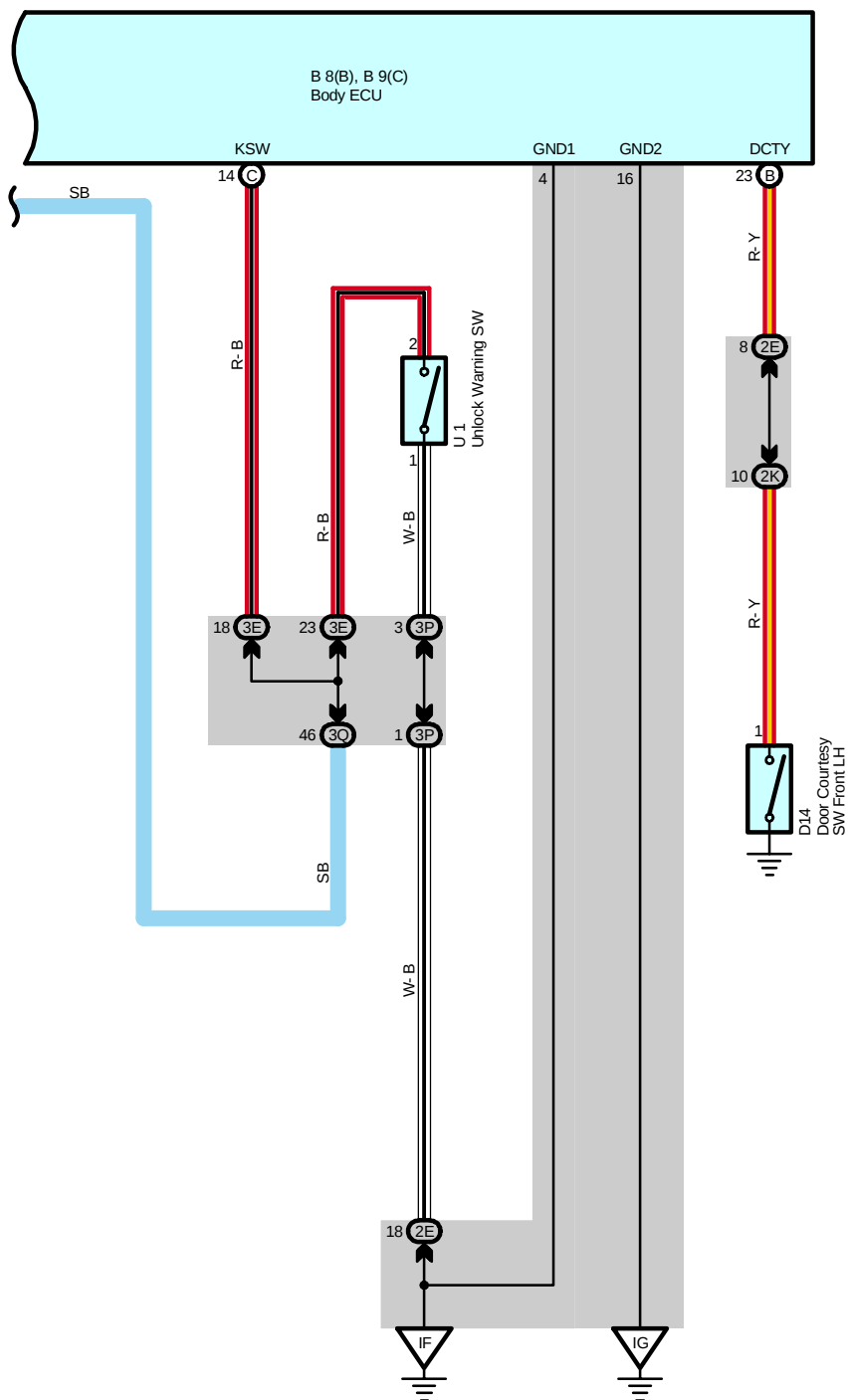
Code	See Page	Joining Wire Harness and Wire Harness (Connector Location)
IV4	82	Dash Wire and Floor No.2 Wire (Right Kick Panel)
IY2	82	Front Door RH Wire and Dash Wire (Right Kick Panel)

▽ : Ground Points

Code	See Page	Ground Points Location
IF	78	Set Bolt of Cowl Side J/B LH
II	78	Set Bolt of Cowl Side J/B RH
BK	86	Front Side Under the Front Passenger's Seat

Key Reminder





Key Reminder

System Outline

When the driver door is opened with the ignition SW off and ignition key remaining in the key cylinder (Unlock warning SW on), a signal is input from the unlock warning SW to the combination meter TERMINAL 9, the body ECU TERMINAL (C) 14, and from the door courtesy SW front LH to the body ECU TERMINAL (B)23. As a result, the buzzer in the combination meter goes on and warns the driver that the key is remaining in the key cylinder.

Service Hints

D14 Door Courtesy SW Front LH

1-Ground : Closed with driver's door open

○ : Parts Location

Code		See Page	Code		See Page	Code		See Page
B8	B	70	C15	70		J14	71	
B9	C	70	D14	72		U1	71	

○ : Junction Block and Wire Harness Connector

Code	See Page	Junction Block and Wire Harness (Connector Location)
2E	28	Dash Wire and Cowl Side J/B LH (Left Kick Panel)
2K	28	Floor No.1 Wire and Cowl Side J/B LH (Left Kick Panel)
2Q	30	Instrument Panel Integration Wire and Cowl Side J/B LH (Left Kick Panel)
3E	40	Dash Wire and Cowl Side J/B RH (Right Kick Panel)
3P	43	
3Q	42	Instrument Panel Integration Wire and Cowl Side J/B RH (Right Kick Panel)

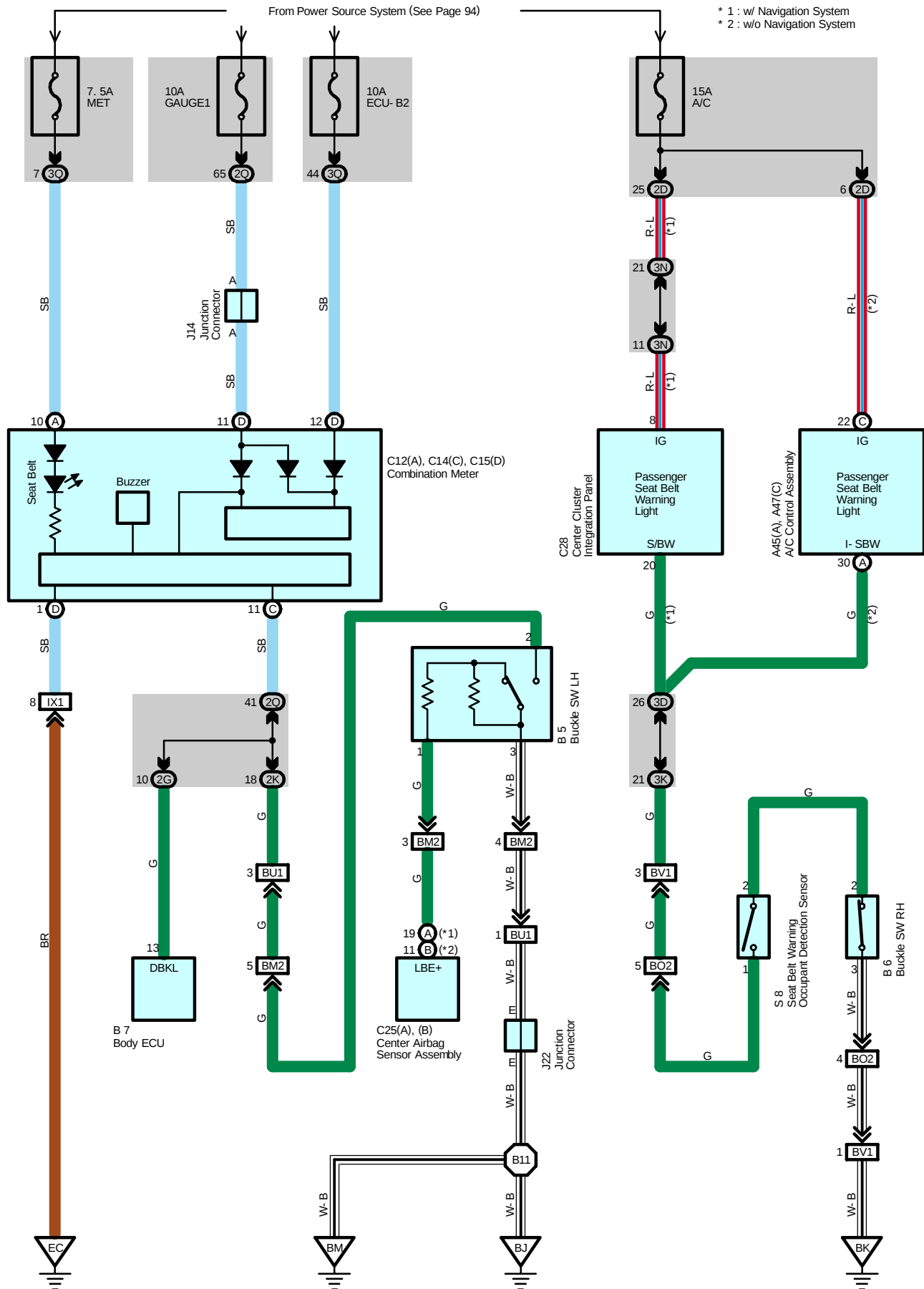
□ : Connector Joining Wire Harness and Wire Harness

Code	See Page	Joining Wire Harness and Wire Harness (Connector Location)
IX1	82	Instrument Panel Integration Wire and Engine Wire (Behind the Glove Box)

▽ : Ground Points

Code	See Page	Ground Points Location
EC	76	Rear Bank of Right Cylinder Head
IF	78	Set Bolt of Cowl Side J/B LH
IG		

Seat Belt Warning



System Outline

When the ignition SW turned on, a signal is input to the combination meter and the center cluster integration panel (w/ navigation system) or the A/C control assembly (w/o navigation system). To determine whether the driver has fastened the seat belt, a signal is input from the buckle SW LH to the combination meter. When the seat belt is not fastened, the seat belt warning light in the combination meter blinks, and emits a warning sound.

In addition, the front passenger is recognized by a sensor (Seat belt warning occupant detection sensor) is installed in the front passenger seat, and determines whether the seat belt is fastened. When not fastened, the signals from the seat belt warning occupant detection sensor and the buckle SW RH is input to the center cluster integration panel (w/ navigation system) or the A/C control assembly (w/o navigation system), and the passenger seat belt warning light blinks to warn the passenger.

Service Hints

S8 Seat Belt Warning Occupant Detection Sensor

1-2 : Closed with passenger sit on the front passenger seat

○ : Parts Location

Code		See Page	Code		See Page	Code	See Page
A45	A	70	C12	A	70	C28	70
A47	C	70	C14	C	70	J14	71
B5		74	C15	D	70	J22	72
B6		74	C25	A	70	S8	74
B7		70		B	70		

○ : Junction Block and Wire Harness Connector

Code	See Page	Junction Block and Wire Harness (Connector Location)
2D	28	Dash Wire and Cowl Side J/B LH (Left Kick Panel)
2G		
2K	28	Floor No.1 Wire and Cowl Side J/B LH (Left Kick Panel)
2Q	30	Instrument Panel Integration Wire and Cowl Side J/B LH (Left Kick Panel)
3D	40	Dash Wire and Cowl Side J/B RH (Right Kick Panel)
3K	40	Floor No.2 Wire and Cowl Side J/B RH (Right Kick Panel)
3N	43	Dash Wire and Cowl Side J/B RH (Right Kick Panel)
3Q	42	Instrument Panel Integration Wire and Cowl Side J/B RH (Right Kick Panel)

□ : Connector Joining Wire Harness and Wire Harness

Code	See Page	Joining Wire Harness and Wire Harness (Connector Location)
IX1	82	Instrument Panel Integration Wire and Engine Wire (Behind the Glove Box)
BM2	90	Floor No.1 Wire and Front Seat LH Wire (Front Side Under the Driver's Seat)
BO2	90	Floor No.2 Wire and Front Seat RH Wire (Front Side Under the Front Passenger's Seat)
BU1	88	Floor No.1 Wire and Floor No.1 Wire (Near the Left Rear Suspension Support)
BV1	88	Floor No.2 Wire and Floor No.2 Wire (Near the Right Rear Suspension Support)

▽ : Ground Points

Code	See Page	Ground Points Location
EC	76	Rear Bank of Right Cylinder Head
BJ	86	Under the Driver's Seat
BK	86	Front Side Under the Front Passenger's Seat
BM	86	Left Rear Side Quarter Panel

○ : Splice Points

Code	See Page	Wire Harness with Splice Points	Code	See Page	Wire Harness with Splice Points
B11	88	Floor No.1 Wire			



Service Hints

A30 Auto Antenna Control Relay

- 4-Ground : Always approx. 12 volts
- 17-Ground : Approx. 12 volts with ignition SW at ACC or ON position
- 7-Ground : Approx. 12 volts with ignition SW at ON or ST position
- 5-Ground : Always continuity

○ : Parts Location

Code		See Page		Code		See Page		Code		See Page	
A17		68		A47	C	70		J16		71	
A30		70		C28		70		R36		71	
A45	A	70		J11		71					

○ : Junction Block and Wire Harness Connector

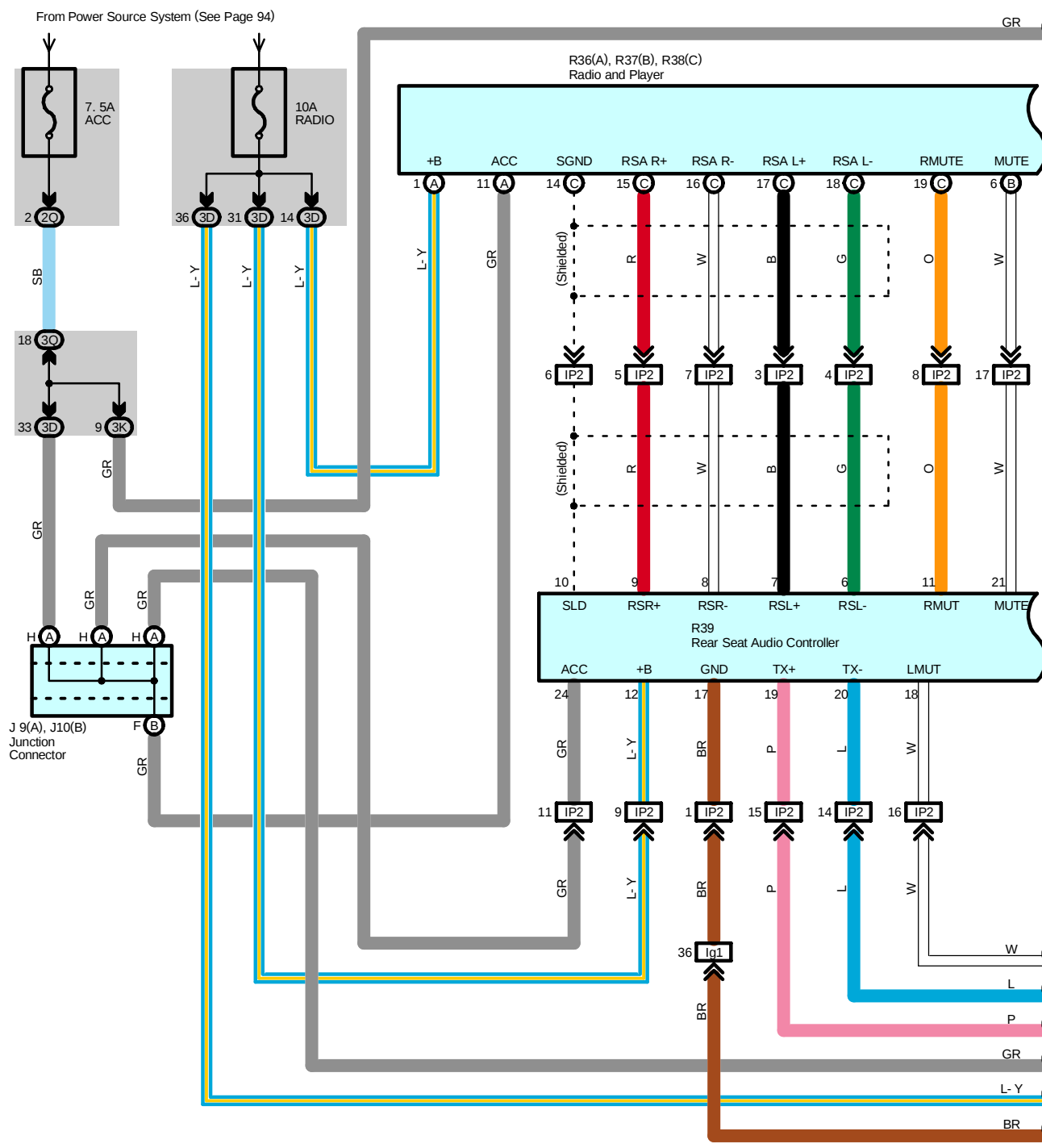
Code	See Page	Junction Block and Wire Harness (Connector Location)
2D	28	Dash Wire and Cowl Side J/B LH (Left Kick Panel)
2E		
3B	40	Engine Room No.2 Wire and Cowl Side J/B RH (Right Kick Panel)
3D	40	Dash Wire and Cowl Side J/B RH (Right Kick Panel)
3N	43	
3P		
4B	52	
4D		
4E		

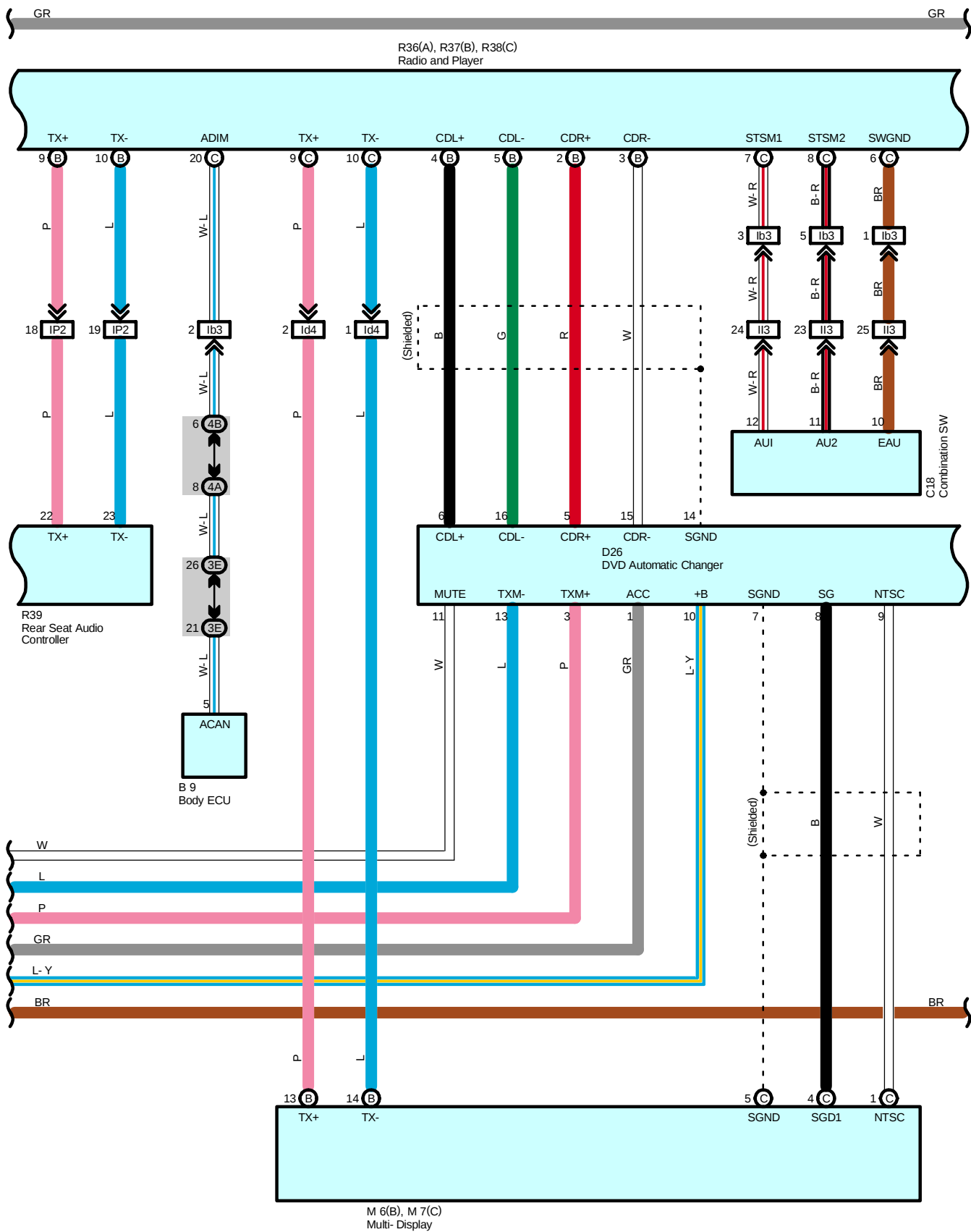
□ : Connector Joining Wire Harness and Wire Harness

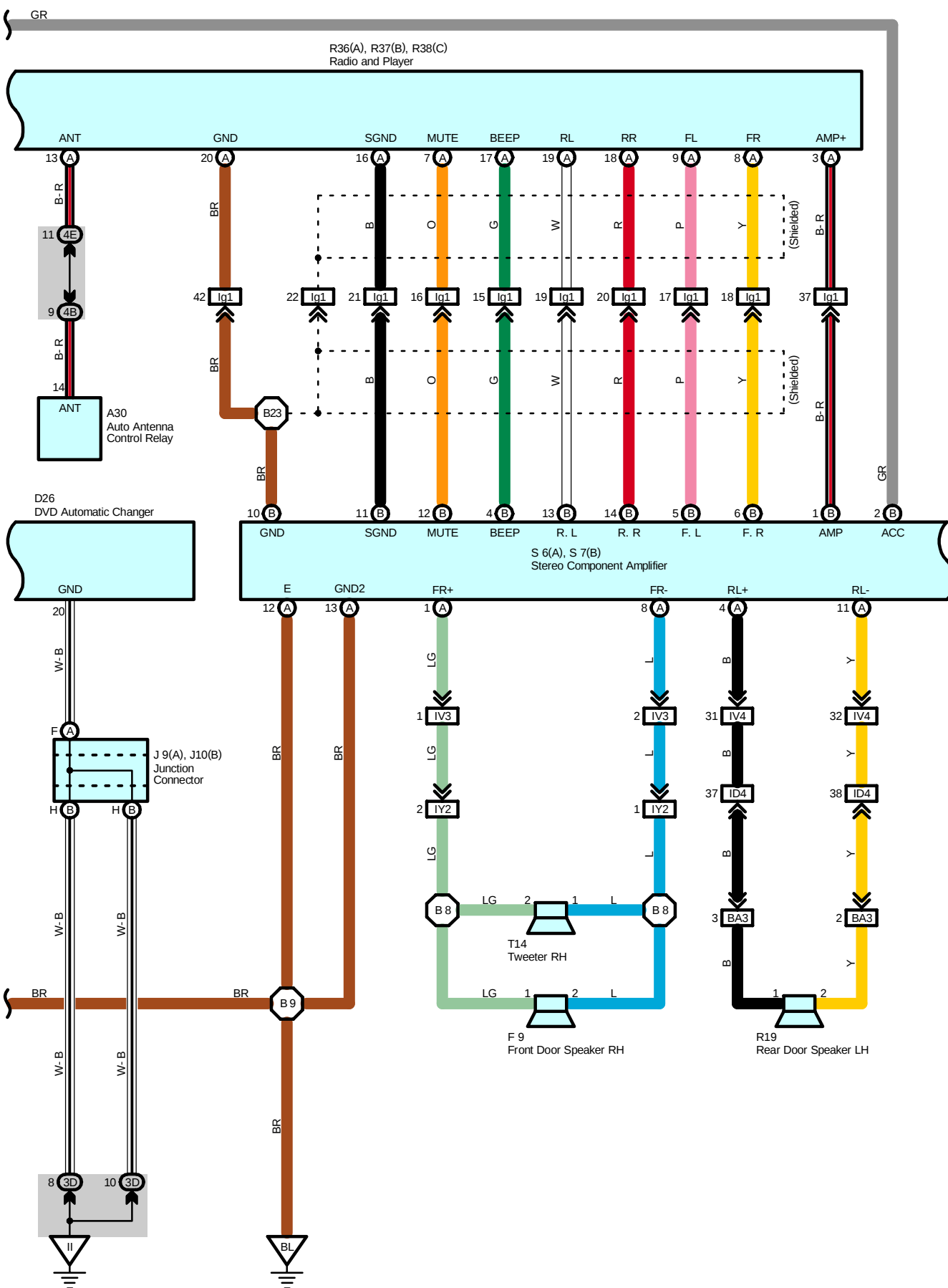
Code	See Page	Joining Wire Harness and Wire Harness (Connector Location)
IW3	82	Engine Room No.2 Wire and Dash Wire (Behind the Glove Box)
Ib1	84	Dash Wire and Dash Wire (Behind the Combination Meter)

▽ : Ground Points

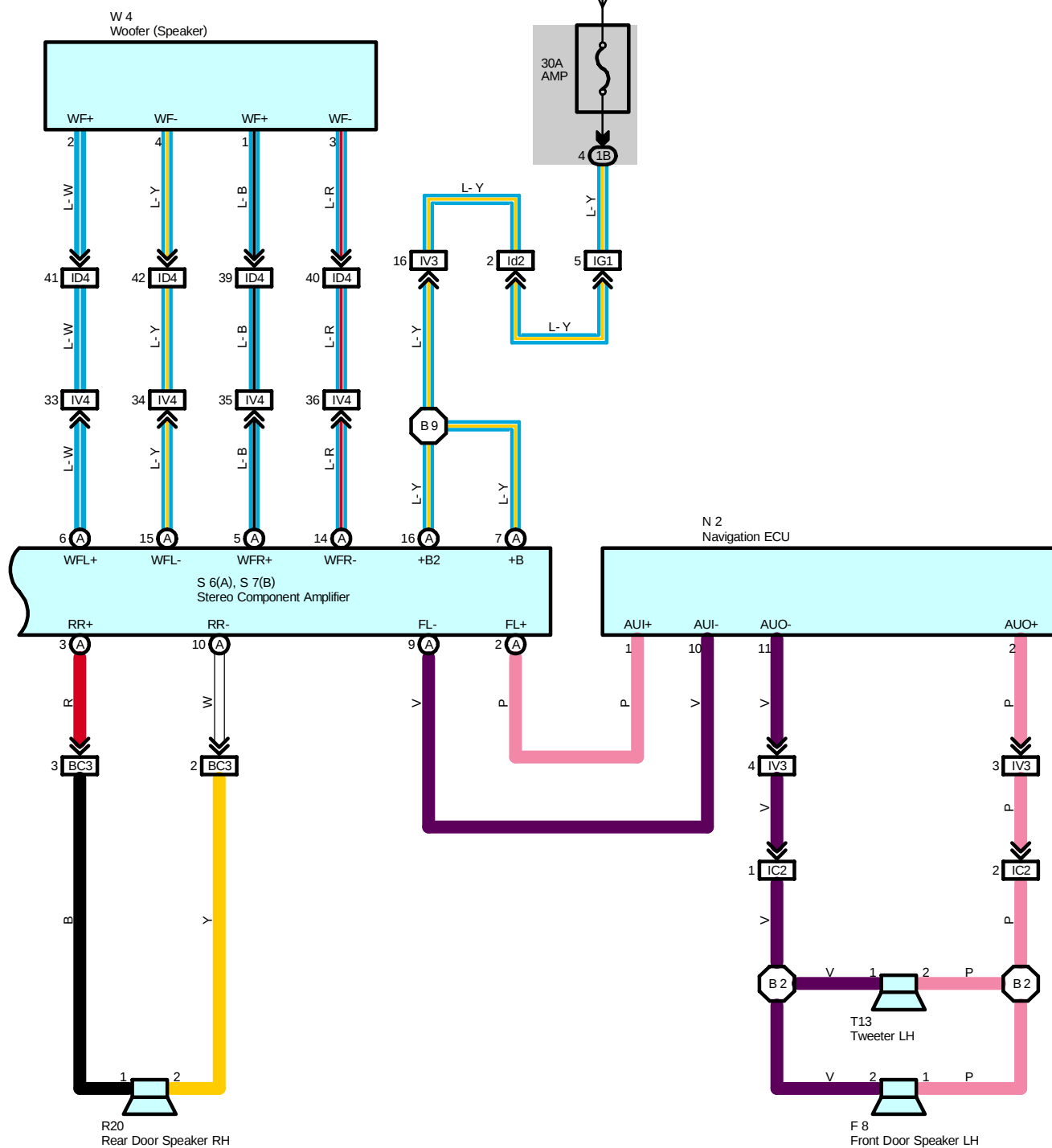
Code	See Page	Ground Points Location
IF	78	Set Bolt of Cowl Side J/B LH
II	78	Set Bolt of Cowl Side J/B RH







From Power Source System (See Page 94)



Audio System with Navigation System

Service Hints

R36 Radio and Player

- 1-Ground : Always approx. 12 volts
- 11-Ground : Approx. 12 volts with ignition SW at ACC or ON position

S6 (A), S7 (B) Stereo Component Amplifier

- (A) 7, (A) 16-Ground : Always approx. 12 volts
- (B) 2-Ground : Approx. 12 volts with ignition SW at ACC or ON position
- (A) 12, (A) 13-Ground : Always continuity

○ : Parts Location

Code	See Page	Code	See Page	Code	See Page
A30	70	M6	B 71	R39	71
B9	70	M7	C 71	S6	A 73
C18	70	N2	72	S7	B 73
D26	70	R19	73	T13	73
F8	72	R20	73	T14	73
F9	72	R36	A 71	W4	73
J9	A 71	R37	B 71		
J10	B 71	R38	C 71		

○ : Junction Block and Wire Harness Connector

Code	See Page	Junction Block and Wire Harness (Connector Location)
1B	24	Engine Room No.2 Wire and Engine Room J/B (Engine Compartment Left)
2Q	30	Instrument Panel Integration Wire and Cowl Side J/B LH (Left Kick Panel)
3D	40	Dash Wire and Cowl Side J/B RH (Right Kick Panel)
3E		
3K	40	Floor No.2 Wire and Cowl Side J/B RH (Right Kick Panel)
3Q	42	Instrument Panel Integration Wire and Cowl Side J/B RH (Right Kick Panel)
4A	52	Dash Wire and J/B No.4 (Instrument Panel Center)
4B		
4E		

□ : Connector Joining Wire Harness and Wire Harness

Code	See Page	Joining Wire Harness and Wire Harness (Connector Location)
IC2	78	Front Door LH Wire and Dash Wire (Left Kick Panel)
ID4	78	Dash Wire and Floor No.1 Wire (Left Kick Panel)
IG1	78	Engine Room No.2 Wire and Dash Wire (Behind the Combination Meter)
II3	80	Dash Wire and Column Wire (Near the Ignition SW)
IP2	80	Rear Console Box Wire and Dash Wire (Right Side of Rear Console)
IV3	82	Dash Wire and Floor No.2 Wire (Right Kick Panel)
IV4		
IY2	82	Front Door RH Wire and Dash Wire (Right Kick Panel)
Ib3	84	Dash Wire and Dash Wire (Behind the Combination Meter)
Id2	84	Dash Wire and Dash Wire (Instrument Panel Center)
Id4		
Ig1	84	Dash Wire and Floor No.2 Wire (Right Side of Front Console)
BA3	86	Rear Door LH Wire and Floor No.1 Wire (Left Side of Center Pillar)
BC3	86	Rear Door RH Wire and Floor No.2 Wire (Right Side of Center Pillar)

▽ : Ground Points

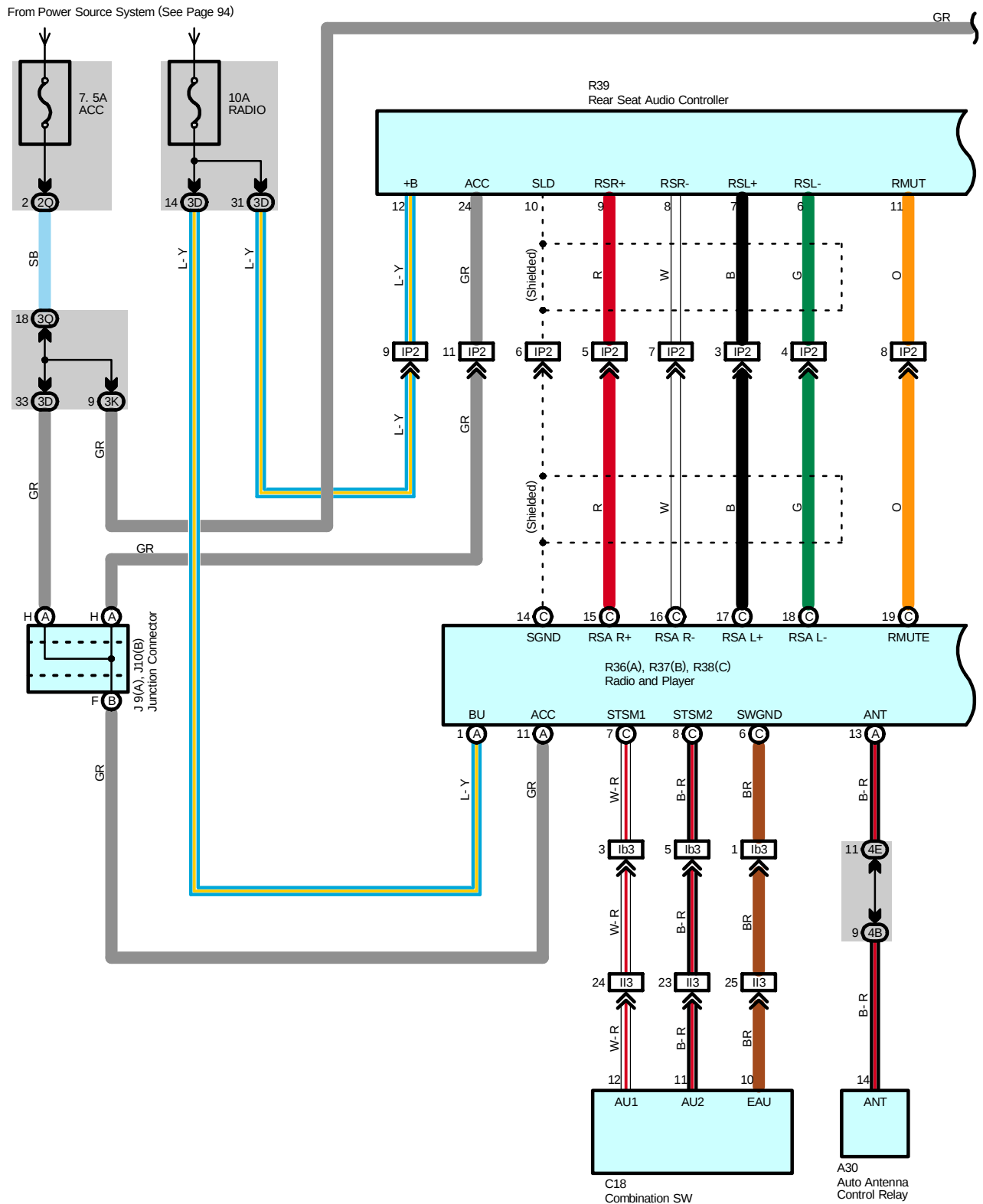
Code	See Page	Ground Points Location
II	78	Set Bolt of Cowl Side J/B RH
BL	86	Rear Side Under the Front Passenger's Seat

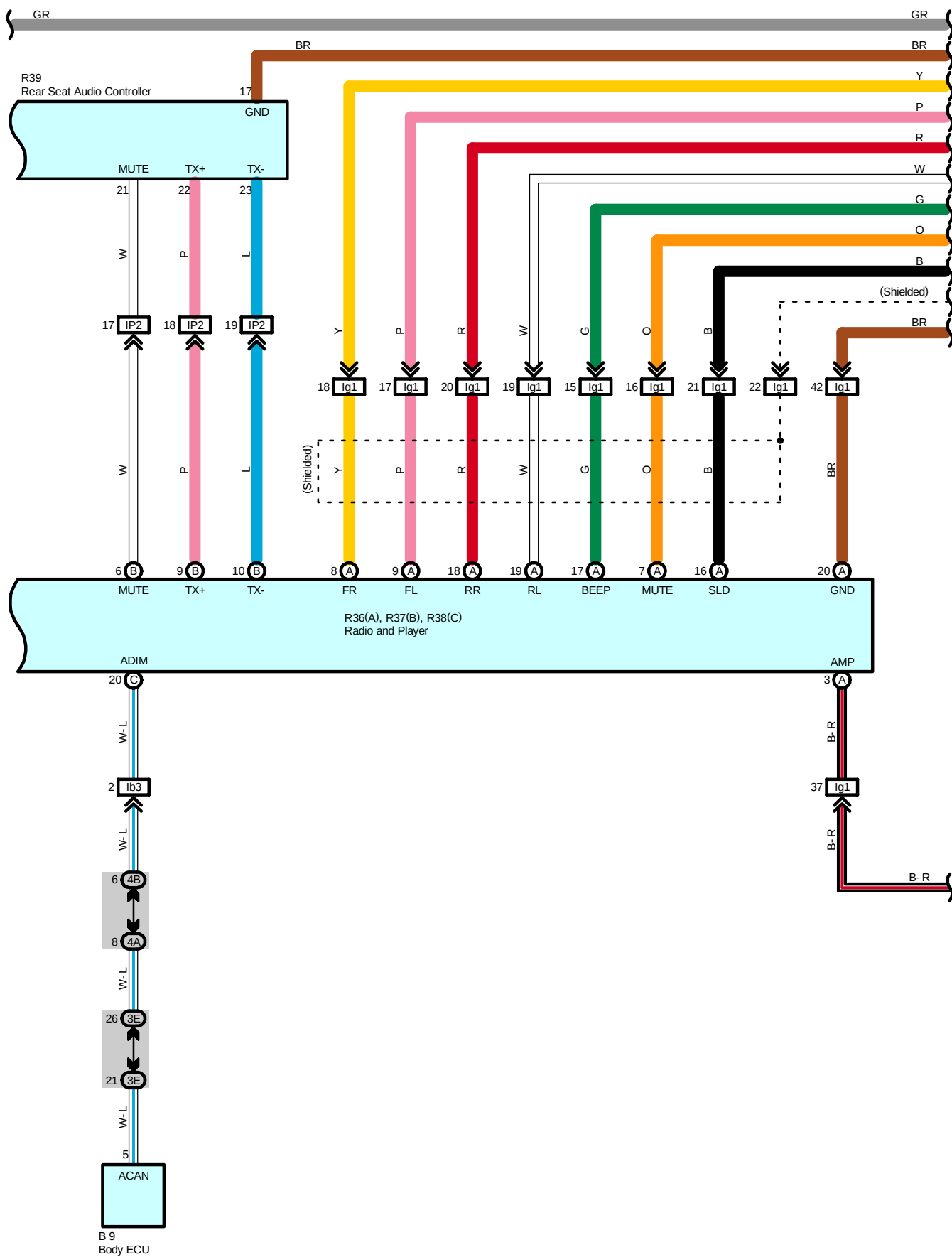


: Splice Points

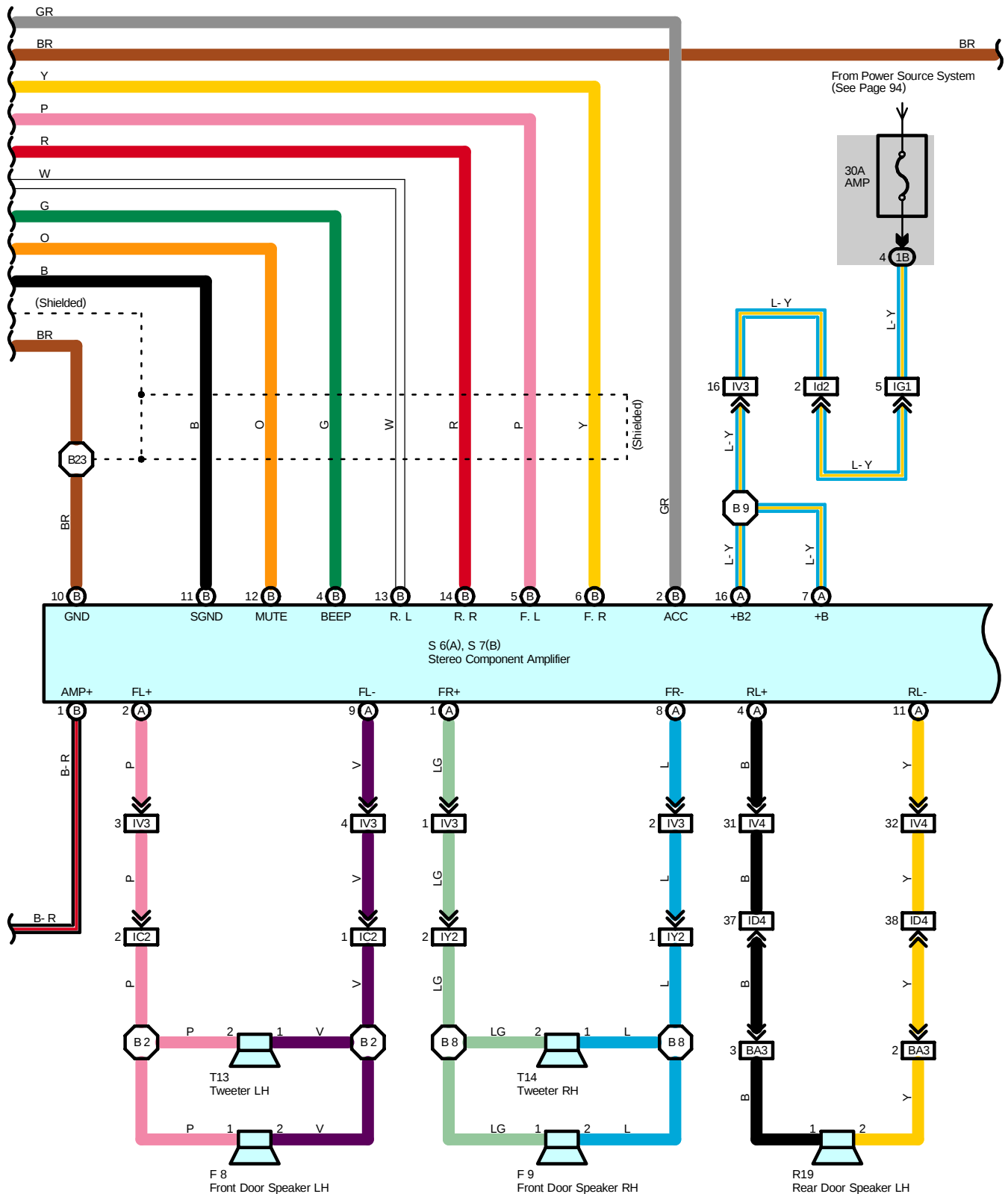
Code	See Page	Wire Harness with Splice Points	Code	See Page	Wire Harness with Splice Points
B2	88	Front Door LH Wire	B9	88	Floor No.2 Wire
B8	88	Front Door RH Wire	B23		

Audio System without Navigation System





Audio System without Navigation System



Audio System without Navigation System

Service Hints

R36 Radio and Player

1-Ground : Always approx. 12 volts

11-Ground : Approx. 12 volts with ignition SW at ACC or ON position

S6 (A), S7 (B) Stereo Component Amplifier

(A) 7, (A) 16-Ground : Always approx. 12 volts

(B) 2-Ground : Approx. 12 volts with ignition SW at ACC or ON position

(A) 12, (A) 13-Ground : Always continuity

○ : Parts Location

Code	See Page	Code	See Page	Code	See Page
A30	70	J10 B	71	R39	71
B9	70	R19	73	S6 A	73
C18	70	R20	73	S7 B	73
F8	72	R36 A	71	T13	73
F9	72	R37 B	71	T14	73
J9 A	71	R38 C	71	W4	73

○ : Junction Block and Wire Harness Connector

Code	See Page	Junction Block and Wire Harness (Connector Location)
1B	24	Engine Room No.2 Wire and Engine Room J/B (Engine Compartment Left)
2Q	30	Instrument Panel Integration Wire and Cowl Side J/B LH (Left Kick Panel)
3D	40	Dash Wire and Cowl Side J/B RH (Right Kick Panel)
3E		
3K	40	Floor No.2 Wire and Cowl Side J/B RH (Right Kick Panel)
3Q	42	Instrument Panel Integration Wire and Cowl Side J/B RH (Right Kick Panel)
4A	52	Dash Wire and J/B No.4 (Instrument Panel Center)
4B		
4E		

□ : Connector Joining Wire Harness and Wire Harness

Code	See Page	Joining Wire Harness and Wire Harness (Connector Location)
IC2	78	Front Door LH Wire and Dash Wire (Left Kick Panel)
ID4	78	Dash Wire and Floor No.1 Wire (Left Kick Panel)
IG1	78	Engine Room No.2 Wire and Dash Wire (Behind the Combination Meter)
II3	80	Dash Wire and Column Wire (Near the Ignition SW)
II4		
IP2	80	Rear Console Box Wire and Dash Wire (Right Side of Rear Console)
IV3	82	Dash Wire and Floor No.2 Wire (Right Kick Panel)
IV4		
IY2	82	Front Door RH Wire and Dash Wire (Right Kick Panel)
Ib3	84	Dash Wire and Dash Wire (Behind the Combination Meter)
Id2	84	Dash Wire and Dash Wire (Instrument Panel Center)
Ig1	84	Dash Wire and Floor No.2 Wire (Right Side of Front Console)
BA3	86	Rear Door LH Wire and Floor No.1 Wire (Left Side of Center Pillar)
BC3	86	Rear Door RH Wire and Floor No.2 Wire (Right Side of Center Pillar)

▽ : Ground Points

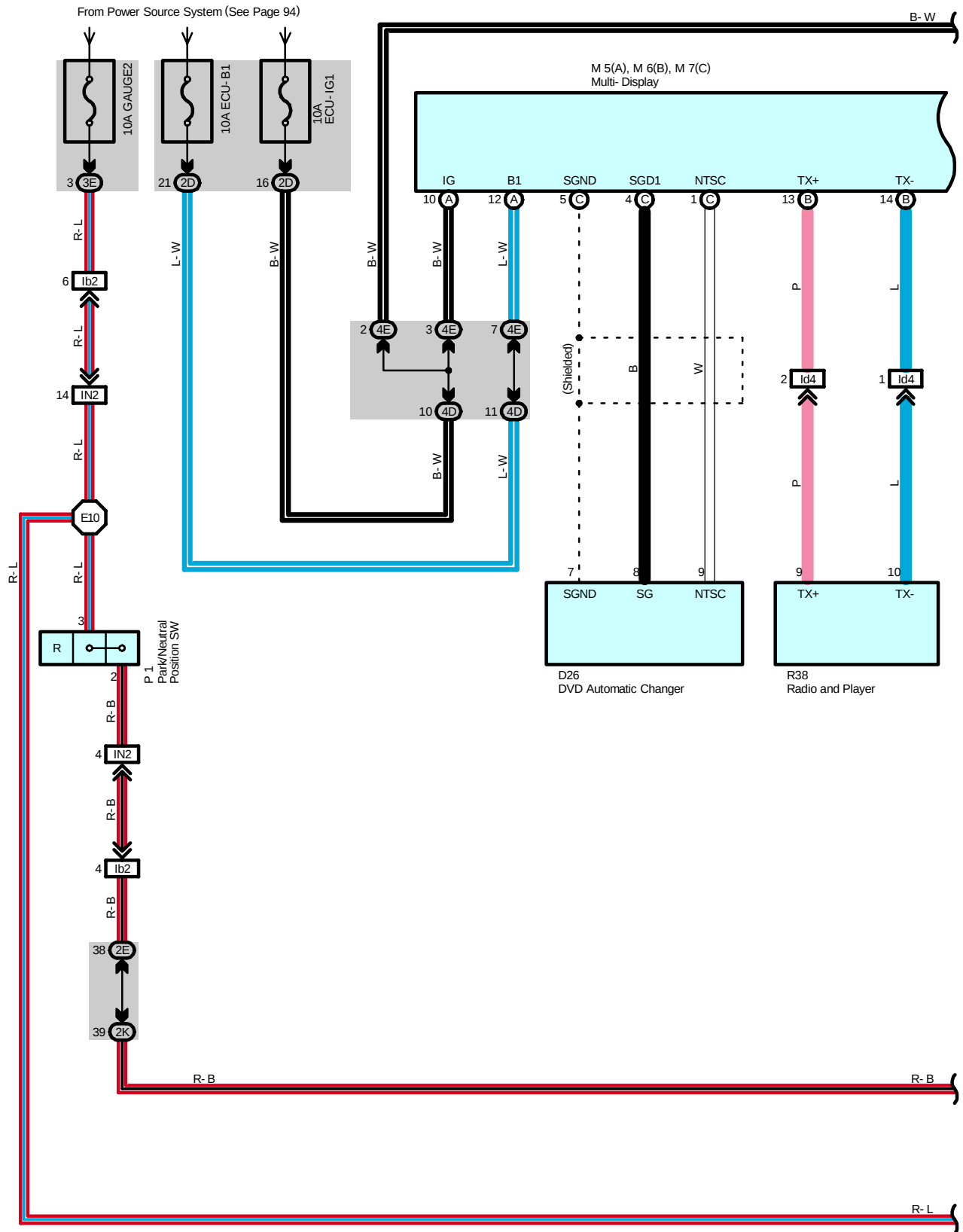
Code	See Page	Ground Points Location
BL	86	Rear Side Under the Front Passenger's Seat

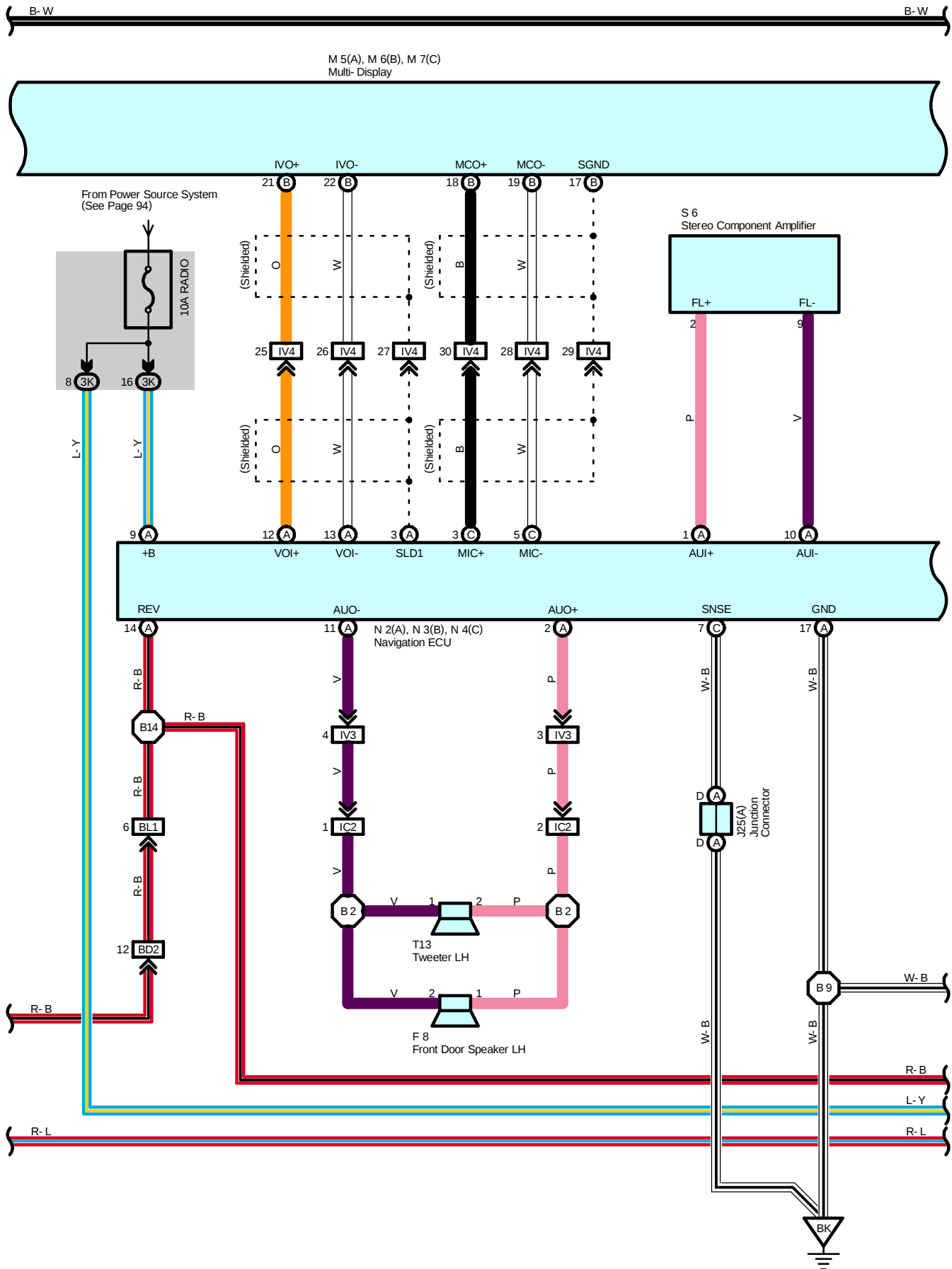


: Splice Points

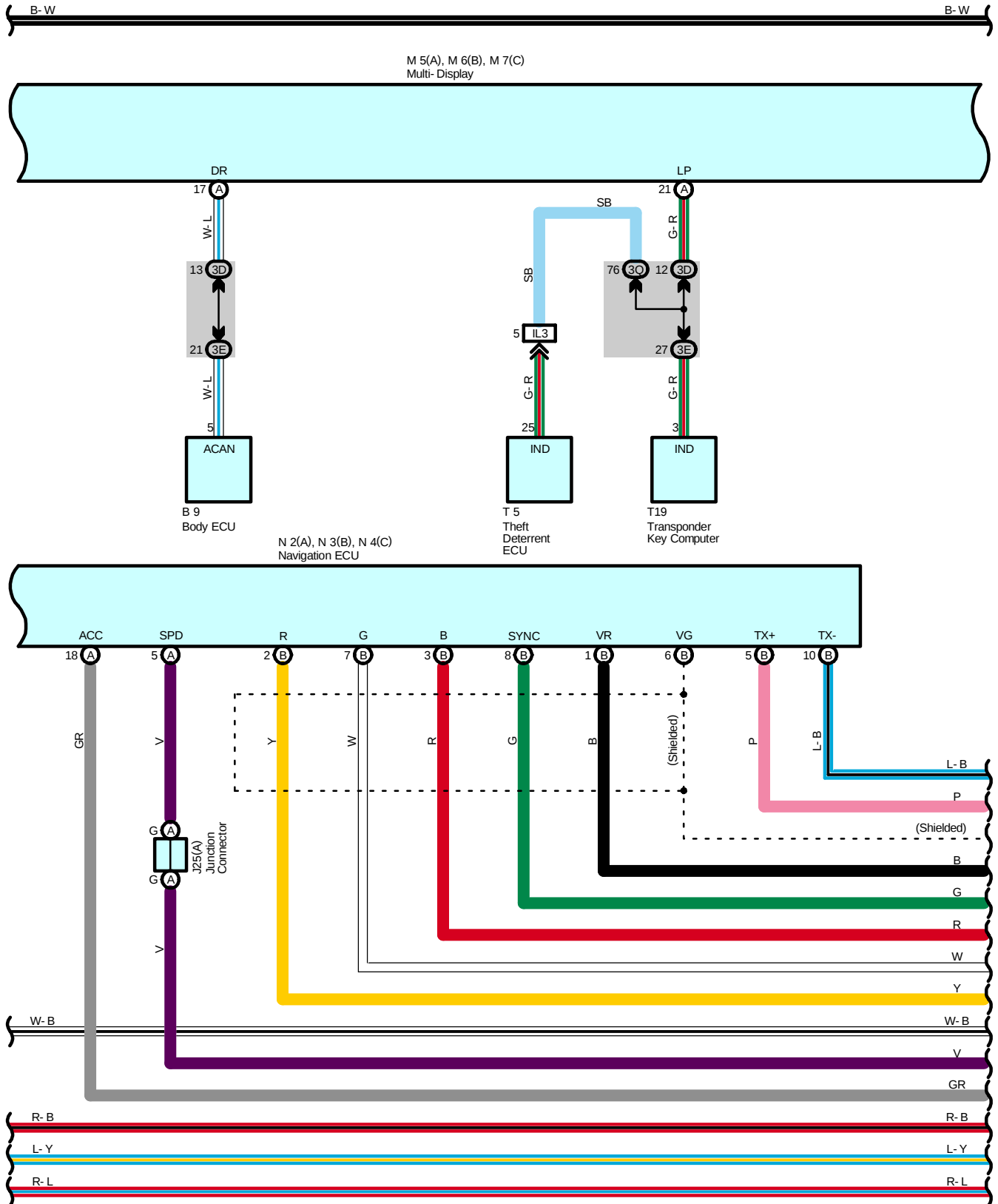
Code	See Page	Wire Harness with Splice Points	Code	See Page	Wire Harness with Splice Points
B2	88	Front Door LH Wire	B9	88	Floor No.2 Wire
B8	88	Front Door RH Wire	B23		

Navigation System and Parking Assist (Rear View Monitor)

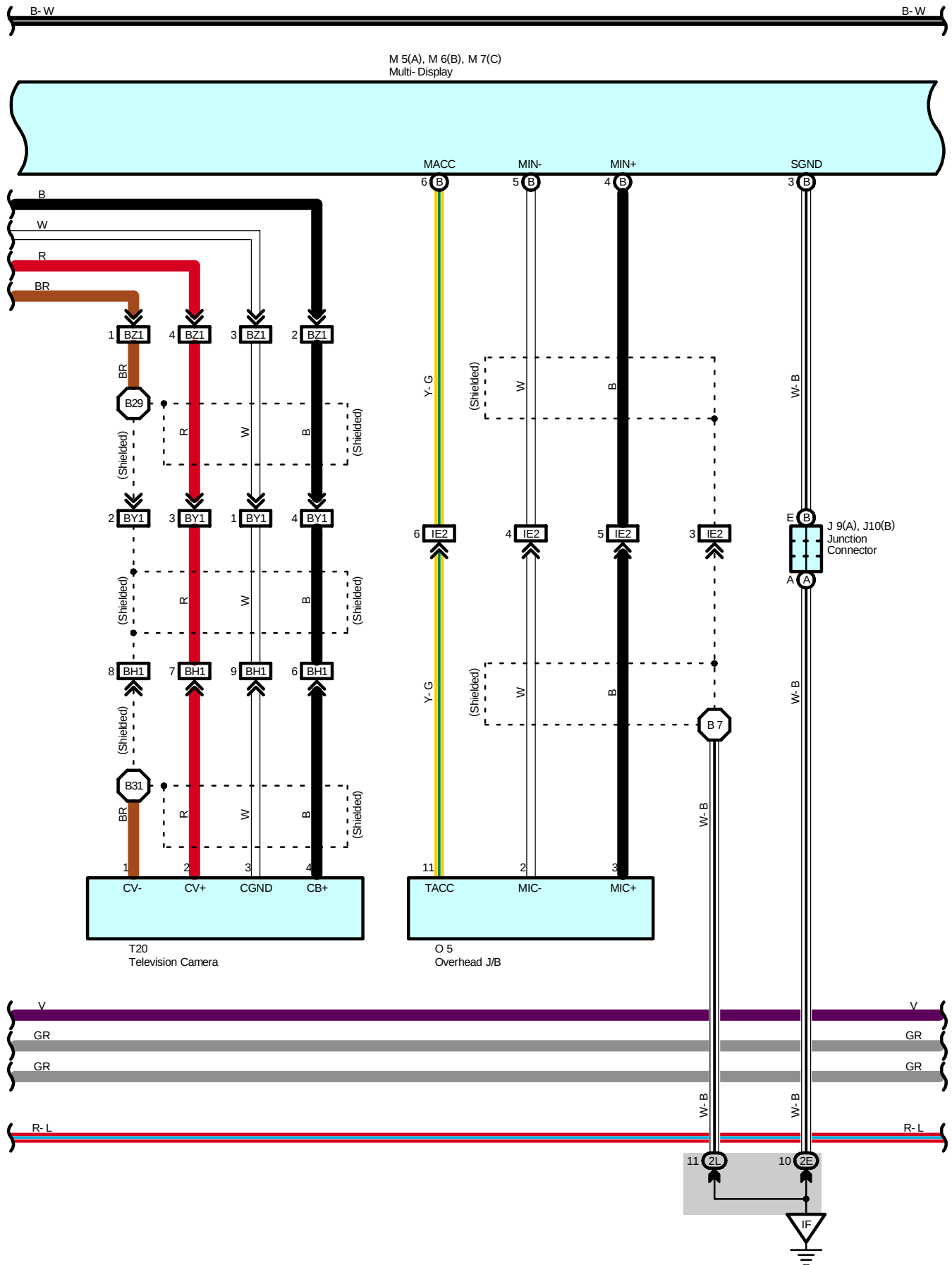


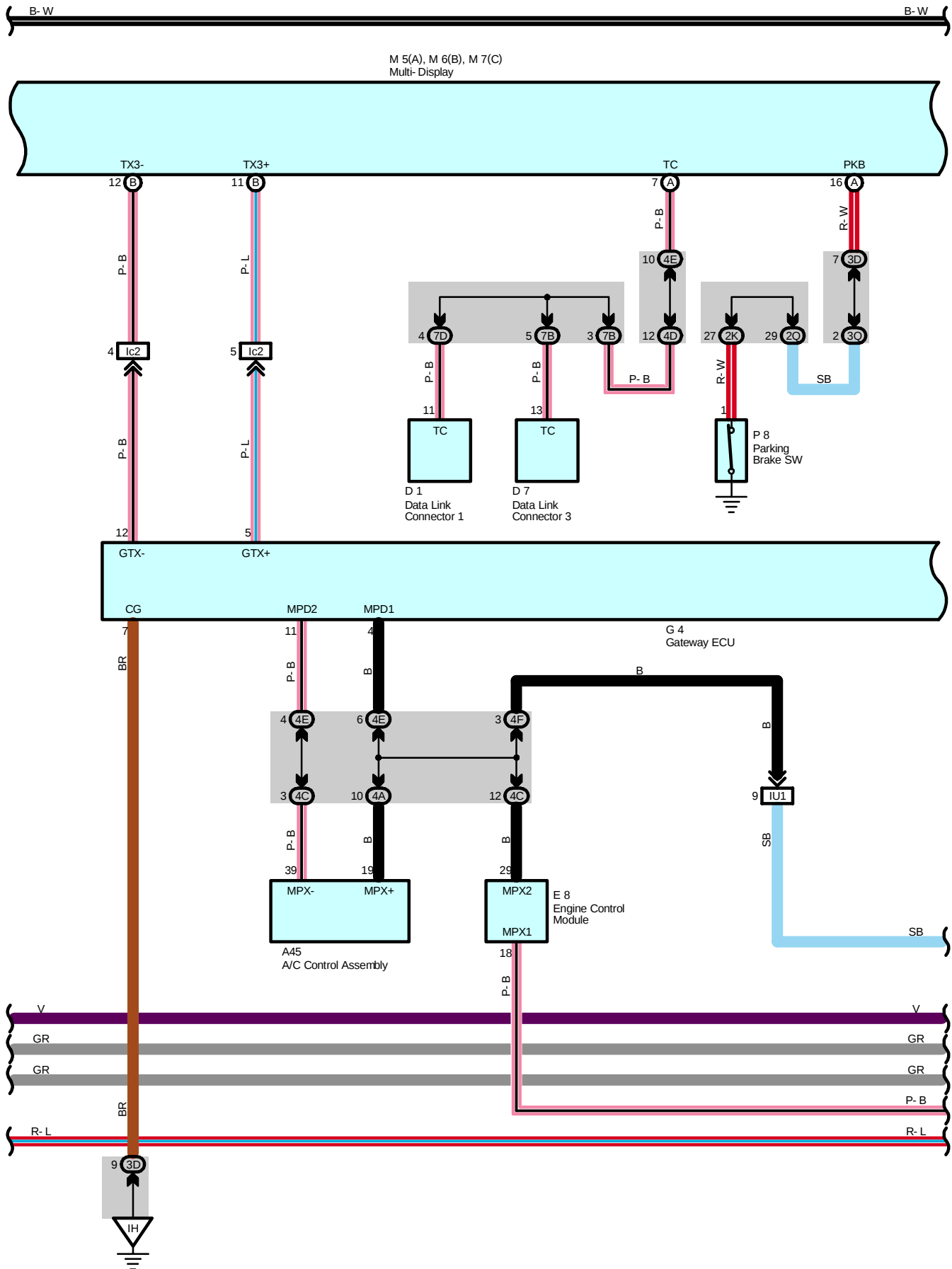


Navigation System and Parking Assist (Rear View Monitor)

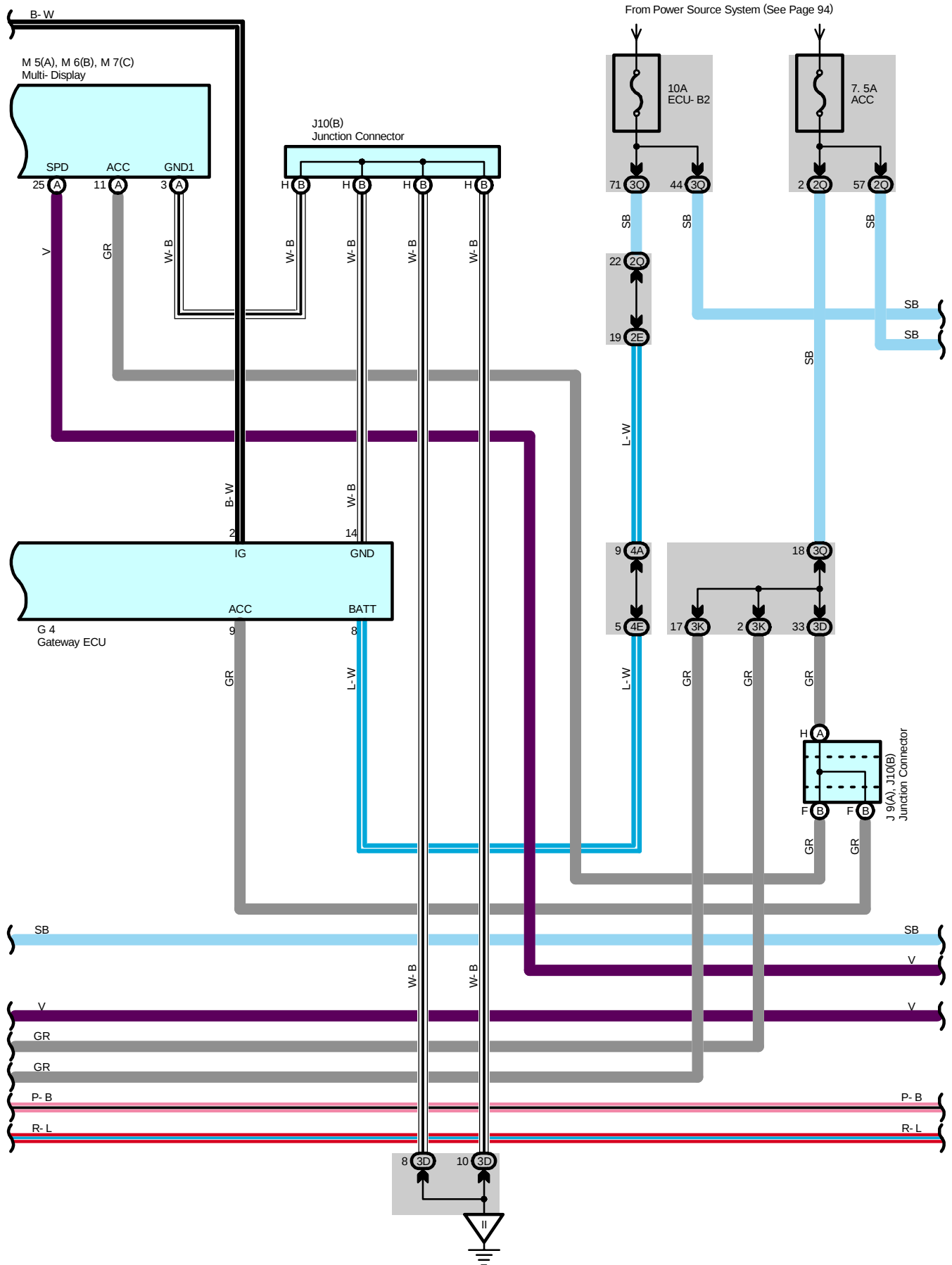


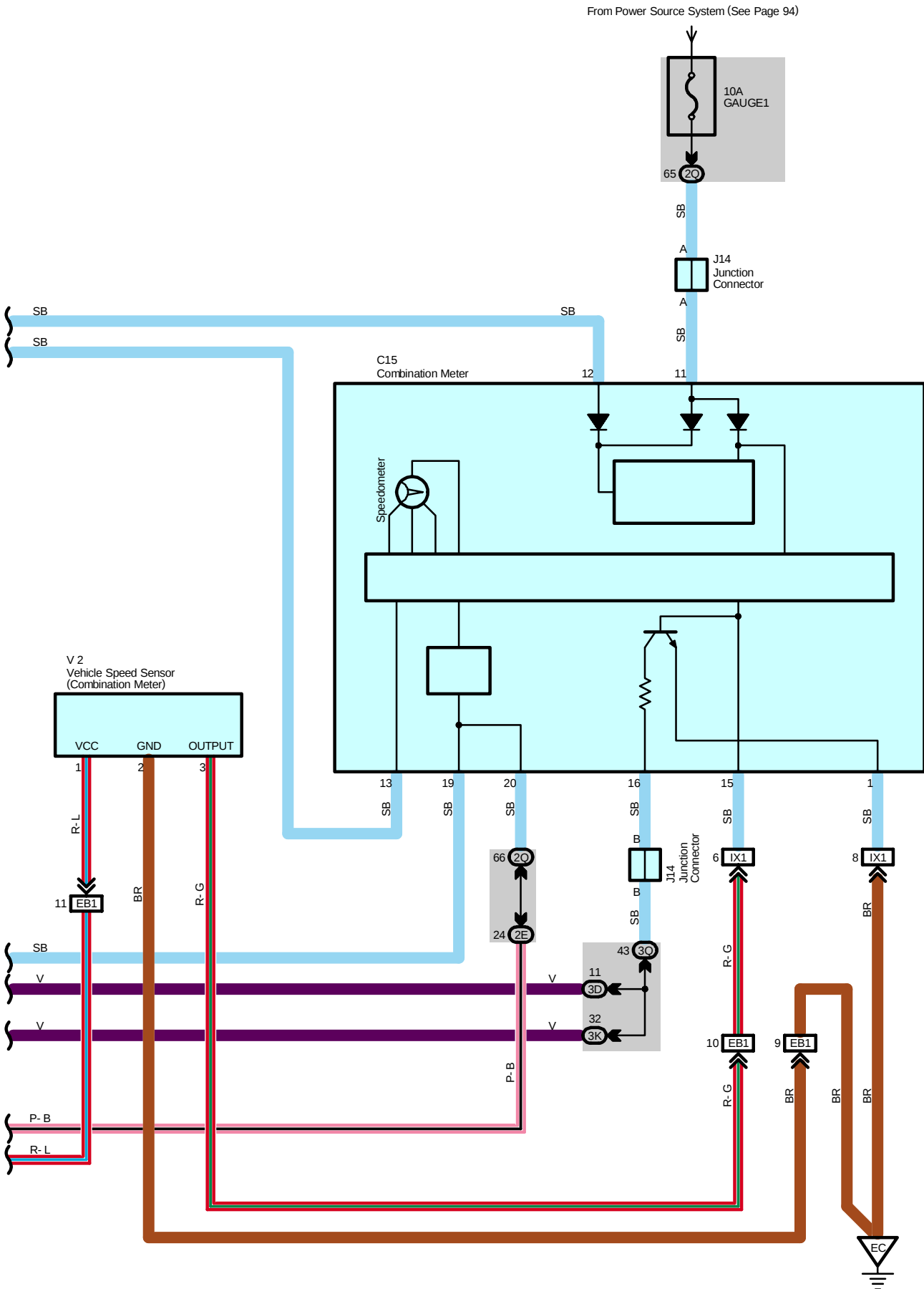
Navigation System and Parking Assist (Rear View Monitor)





Navigation System and Parking Assist (Rear View Monitor)





Navigation System and Parking Assist (Rear View Monitor)

System Outline

The navigation system displays the operating status and instructions for the automatic air conditioning or radio and player, as well as trip information. Additionally, the navigation system precisely measures the current vehicle position, displays the map obtained from the map database on the screen, and informs the route to the destination shown on the map using voice guidance.

Service Hints

N2 (A), N4 (C) Navigation ECU

- (A) 9-Ground : Always approx. 12 volts
- (A)18-Ground : Approx. 12 volts with ignition SW at ACC or ON position
- (A)17-Ground : Always continuity
- (C) 7-Ground : Always continuity

M5 (A), M6 (B) Multi-Display

- (A)12-Ground : Always approx. 12 volts
- (A)11-Ground : Approx. 12 volts with ignition SW at ACC or ON position
- (A)10-Ground : Approx. 12 volts with ignition SW at ON or ST position
- (A) 3-Ground : Always continuity
- (B) 3-Ground : Always continuity

T22 Television Camera ECU

- 1-Ground : Always approx. 12 volts
- 5-Ground : Approx. 12 volts with ignition SW at ACC or ON position
- 2-Ground : Approx. 12 volts with ignition SW at ON or ST position
- 8-Ground : Always continuity

○ : Parts Location

Code	See Page	Code	See Page	Code	See Page
A45	70	J14	71	P8	73
B9	70	J25	A 72	R38	71
C15	70	J26	B 72	S6	73
D1	68	M5	A 71	T5	71
D7	70	M6	B 71	T13	73
D26	70	M7	C 71	T19	71
E8	70	N2	A 72	T20	73
F8	72	N3	B 72	T21	A 73
G4	70	N4	C 72	T22	B 73
J9	A 71	O5	72	V2	69
J10	B 71	P1	69		



: Junction Block and Wire Harness Connector

Code	See Page	Junction Block and Wire Harness (Connector Location)
2D	28	Dash Wire and Cowl Side J/B LH (Left Kick Panel)
2E		
2K	28	Floor No.1 Wire and Cowl Side J/B LH (Left Kick Panel)
2L	28	Roof No.1 Wire and Cowl Side J/B LH (Left Kick Panel)
2Q	30	Instrument Panel Integration Wire and Cowl Side J/B LH (Left Kick Panel)
3D	40	Dash Wire and Cowl Side J/B RH (Right Kick Panel)
3E		
3K	40	Floor No.2 Wire and Cowl Side J/B RH (Right Kick Panel)
3Q	42	Instrument Panel Integration Wire and Cowl Side J/B RH (Right Kick Panel)
4A	52	Dash Wire and J/B No.4 (Instrument Panel Center)
4C		
4D		
4E		
4F		
7B	64	Dash Wire and J/B No.7 (Behind the Grove Box)
7D	64	Engine Room No.2 Wire and J/B No.7 (Behind the Grove Box)



: Connector Joining Wire Harness and Wire Harness

Code	See Page	Joining Wire Harness and Wire Harness (Connector Location)
EB1	76	Engine Wire and Transmission Wire (On the Transmission)
IC2	78	Front Door LH Wire and Dash Wire (Left Kick Panel)
IE2	78	Dash Wire and Roof No.1 Wire (Left Kick Panel)
IL3	80	Instrument Panel Integration Wire and Computer Wire (Instrument Panel Center)
IN2	80	Engine Wire and Dash Wire (Behind the Glove Box)
IU1	82	Instrument Panel Integration Wire and Dash Wire (Behind the Glove Box)
IV3	82	Dash Wire and Floor No.2 Wire (Right Kick Panel)
IV4		
IX1	82	Instrument Panel Integration Wire and Engine Wire (Behind the Glove Box)
Ib2	84	Dash Wire and Dash Wire (Behind the Combination Meter)
Ic2	84	Dash Wire and Dash Wire (Behind the Center Panel)
Id4	84	Dash Wire and Dash Wire (Instrument Panel Center)
Ig1	84	Dash Wire and Floor No.2 Wire (Right Side of Front Console)
BD2	86	Floor No.3 Wire and Floor No.1 Wire (Left Rear Side Quarter Panel)
BH1	86	Pillar No.1 Wire and Back Door Upper Wire (Left Side of Back Door)
BL1	88	Floor No.2 Wire and Floor No.3 Wire (Right Side of Rear Floor Crossmember)
BY1	88	Pillar No.1 Wire and Floor No.3 Wire (Left Rear Side Quarter Panel)
BZ1	88	Floor No.3 Wire and Floor No.2 Wire (Right Side of Rear Floor Crossmember)



: Ground Points

Code	See Page	Ground Points Location
EC	76	Rear Bank of Right Cylinder Head
IF	78	Set Bolt of Cowl Side J/B LH
IH	78	Set Bolt of Cowl Side J/B RH
II		
BK	86	Front Side Under the Front Passenger's Seat

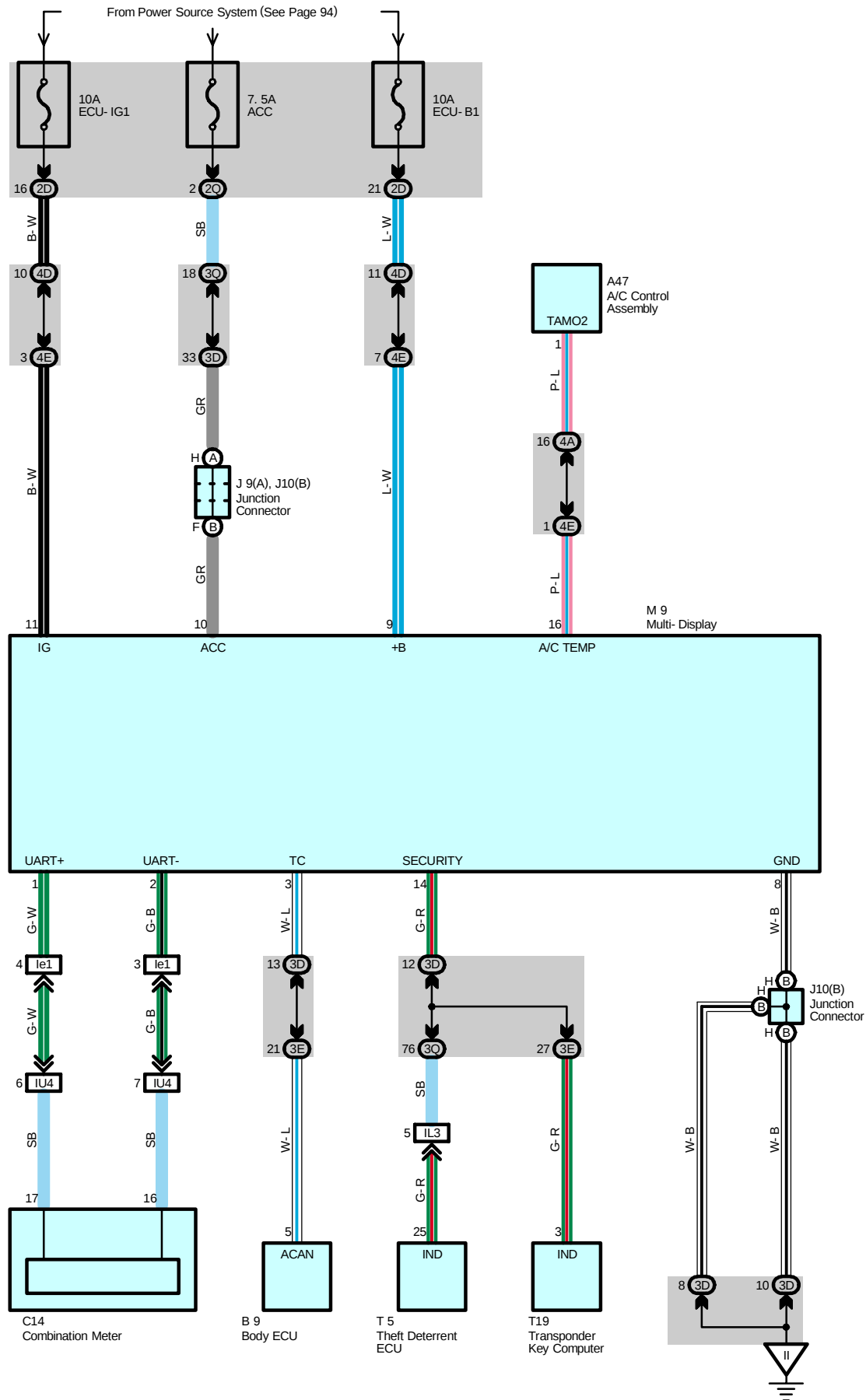
Navigation System and Parking Assist (Rear View Monitor)



: Splice Points

Code	See Page	Wire Harness with Splice Points	Code	See Page	Wire Harness with Splice Points
E10	76	Engine Wire	B14	88	Floor No.2 Wire
B2	88	Front Door LH Wire	B29	88	Floor No.3 Wire
B7	88	Roof No.1 Wire	B30	88	Floor No.2 Wire
B9	88	Floor No.2 Wire	B31	88	Back Door Upper Wire

Multi-Display without Navigation System



Service Hints

M9 Multi-Display

- 9-Ground : Always approx. 12 volts
- 10-Ground : Approx. 12 volts with ignition SW at ACC or ON position
- 11-Ground : Approx. 12 volts with ignition SW at ON or ST position
- 8-Ground : Always continuity

○ : Parts Location

Code	See Page	Code	See Page	Code	See Page
A47	70	J9	A	71	T5
B9	70	J10	B	71	T19
C14	70	M9	71		

○ : Junction Block and Wire Harness Connector

Code	See Page	Junction Block and Wire Harness (Connector Location)
2D	28	Dash Wire and Cowl Side J/B LH (Left Kick Panel)
2Q	30	Instrument Panel Integration Wire and Cowl Side J/B LH (Left Kick Panel)
3D	40	Dash Wire and Cowl Side J/B RH (Right Kick Panel)
3E		
3Q	42	Instrument Panel Integration Wire and Cowl Side J/B RH (Right Kick Panel)
4A	52	Dash Wire and J/B No.4 (Instrument Panel Center)
4D		
4E		

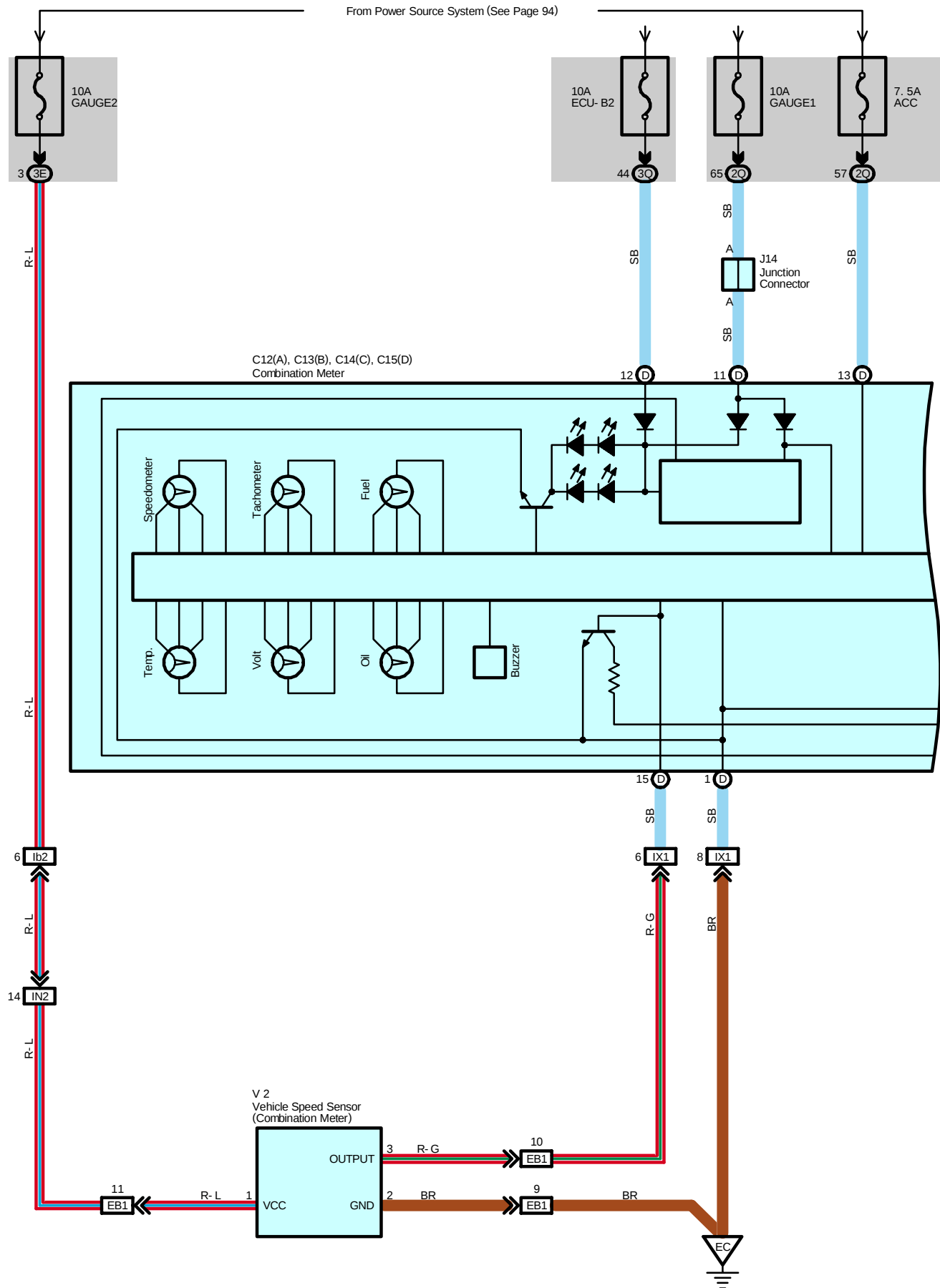
□ : Connector Joining Wire Harness and Wire Harness

Code	See Page	Joining Wire Harness and Wire Harness (Connector Location)
IL3	80	Instrument Panel Integration Wire and Computer Wire (Instrument Panel Center)
IU4	82	Instrument Panel Integration Wire and Dash Wire (Behind the Glove Box)
Ie1	84	Dash Wire and Dash Wire (Behind the Glove Box)

▽ : Ground Points

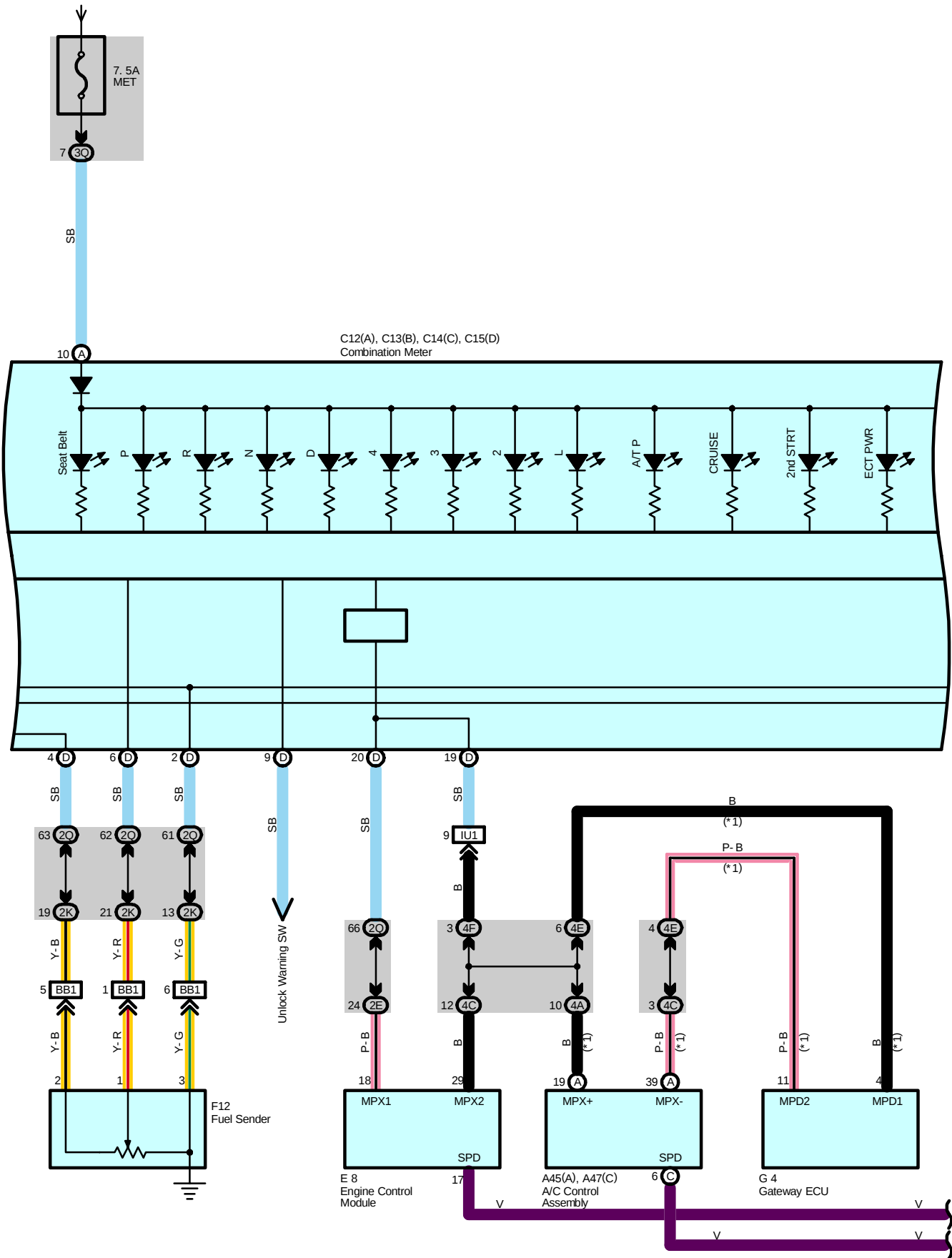
Code	See Page	Ground Points Location
II	78	Set Bolt of Cowl Side J/B RH

Combination Meter

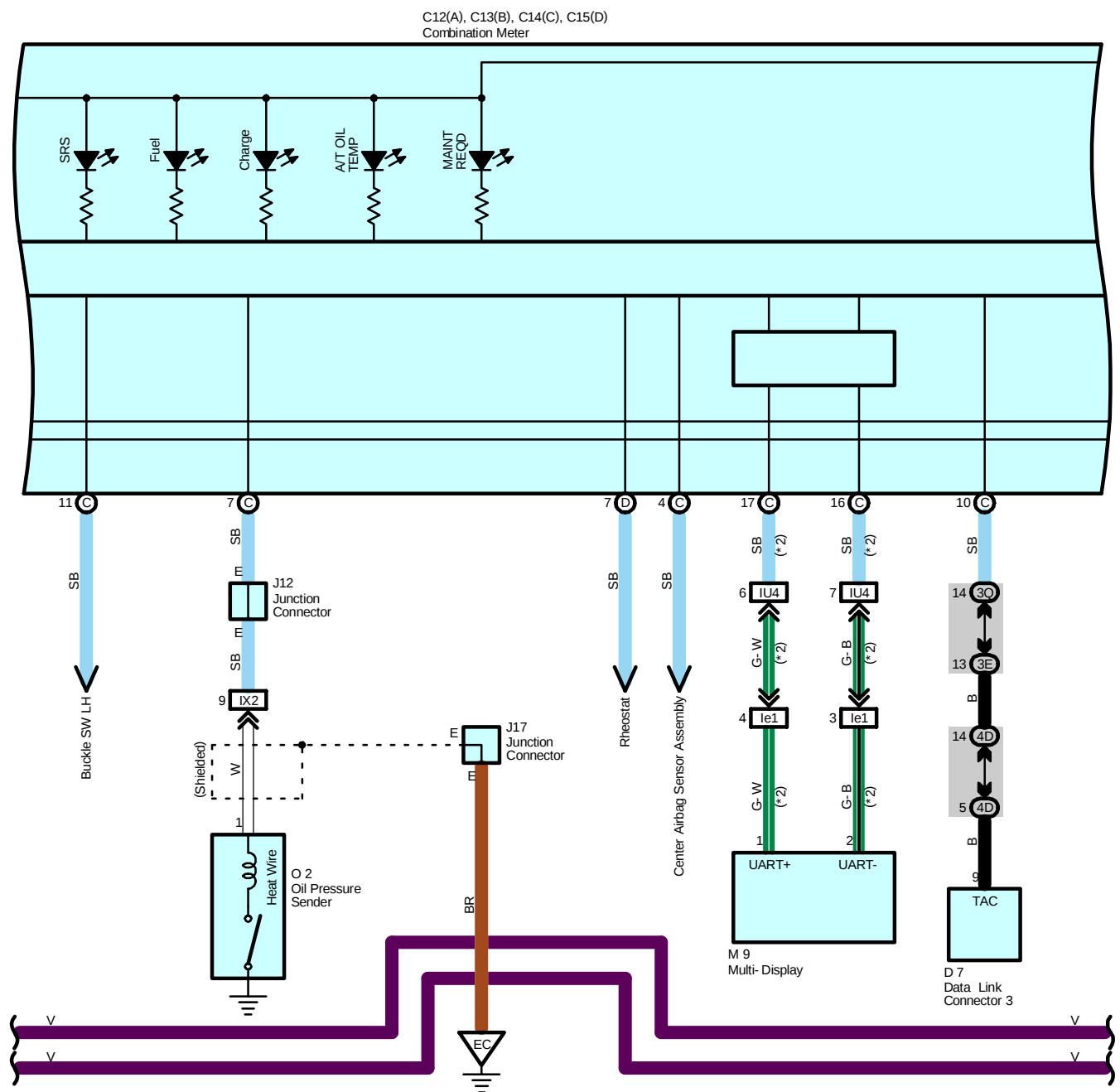


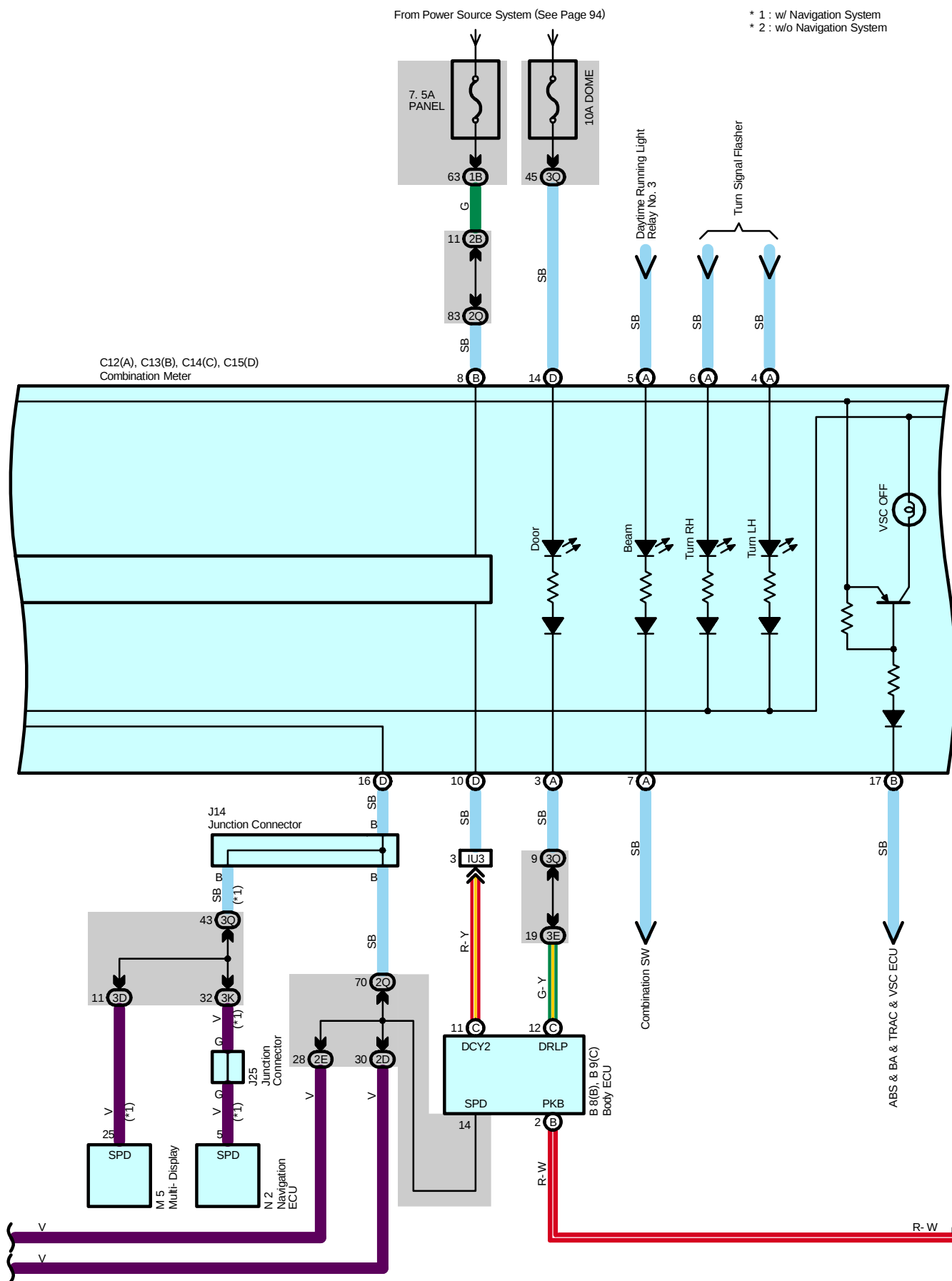
From Power Source System (See Page 94)

* 1 : w/ Navigation System

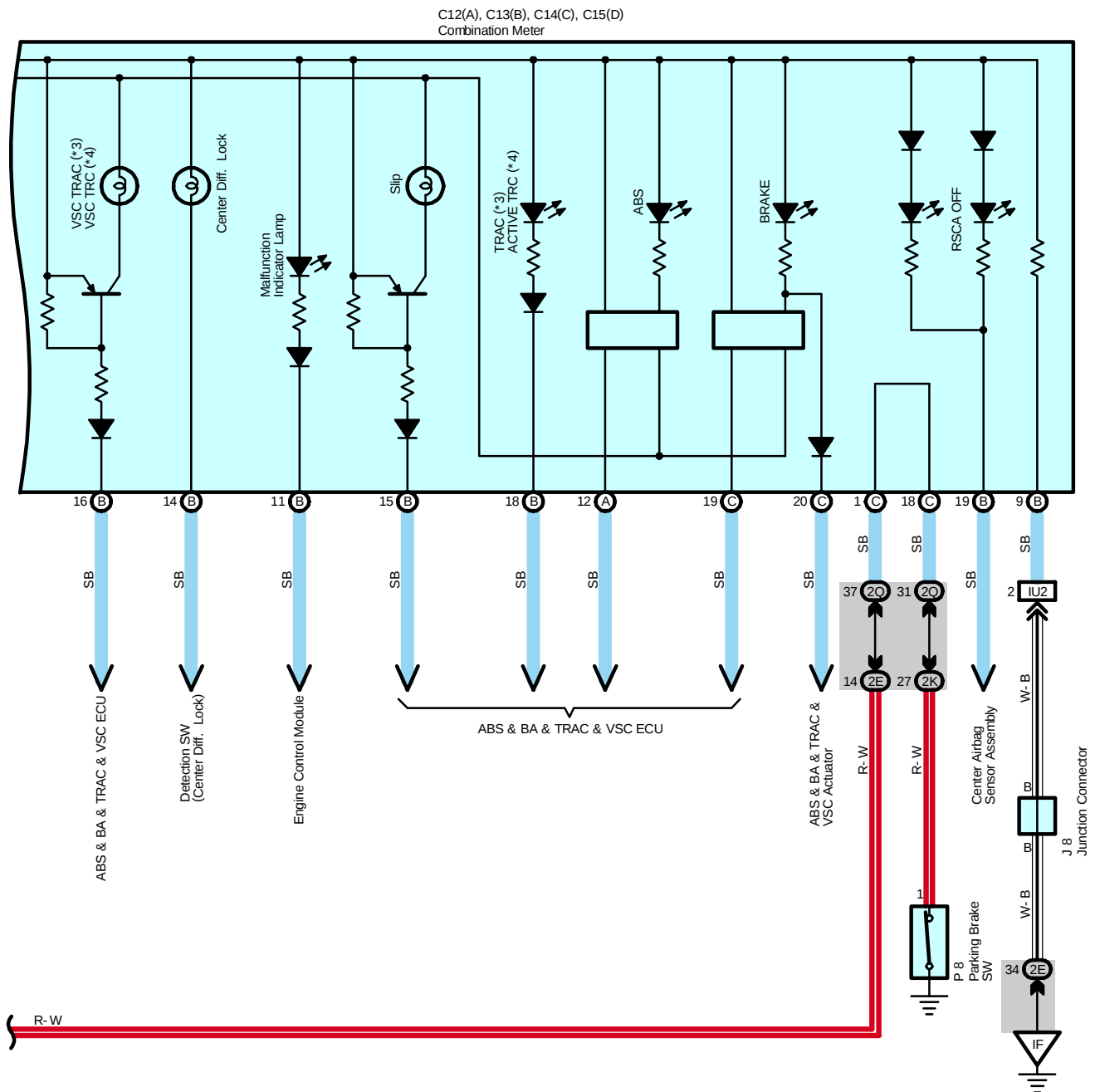


Combination Meter





* 3 : USA
* 4 : Except *3



Service Hints

C12 (A), C13 (B), C15 (D) Combination Meter

- (D) 12, (D) 14-Ground : Always approx. 12 volts
 (D) 13-Ground : Approx. 12 volts with ignition SW at ACC or ON position
 (A) 10, (D) 11-Ground : Approx. 12 volts with ignition SW at ON or ST position
 (B) 8-Ground : Approx. 12 volts with light control SW at TAIL or HEAD position
 (B) 9, (D) 1-Ground : Always continuity

: Parts Location

Code		See Page	Code	See Page	Code	See Page
A45	A	70	D7	70	J25	72
A47	C	70	E8	70	M5	71
B8	B	70	F12	72	M9	71
B9	C	70	G4	70	N2	72
C12	A	70	J8	71	O2	69
C13	B	70	J12	71	P8	73
C14	C	70	J14	71	V2	69
C15	D	70	J17	71		

: Junction Block and Wire Harness Connector

Code	See Page	Junction Block and Wire Harness (Connector Location)
1B	24	Engine Room No.2 Wire and Engine Room J/B (Engine Compartment Left)
2B	28	Engine Room No.2 Wire and Cowl Side J/B LH (Left Kick Panel)
2D	28	Dash Wire and Cowl Side J/B LH (Left Kick Panel)
2E		
2K	28	Floor No.1 Wire and Cowl Side J/B LH (Left Kick Panel)
2Q	30	Instrument Panel Integration Wire and Cowl Side J/B LH (Left Kick Panel)
3D	40	Dash Wire and Cowl Side J/B RH (Right Kick Panel)
3E		
3K	40	Floor No.2 Wire and Cowl Side J/B RH (Right Kick Panel)
3Q	42	Instrument Panel Integration Wire and Cowl Side J/B RH (Right Kick Panel)
4A		
4C		
4D	52	Dash Wire and J/B No.4 (Instrument Panel Center)
4E		
4F		

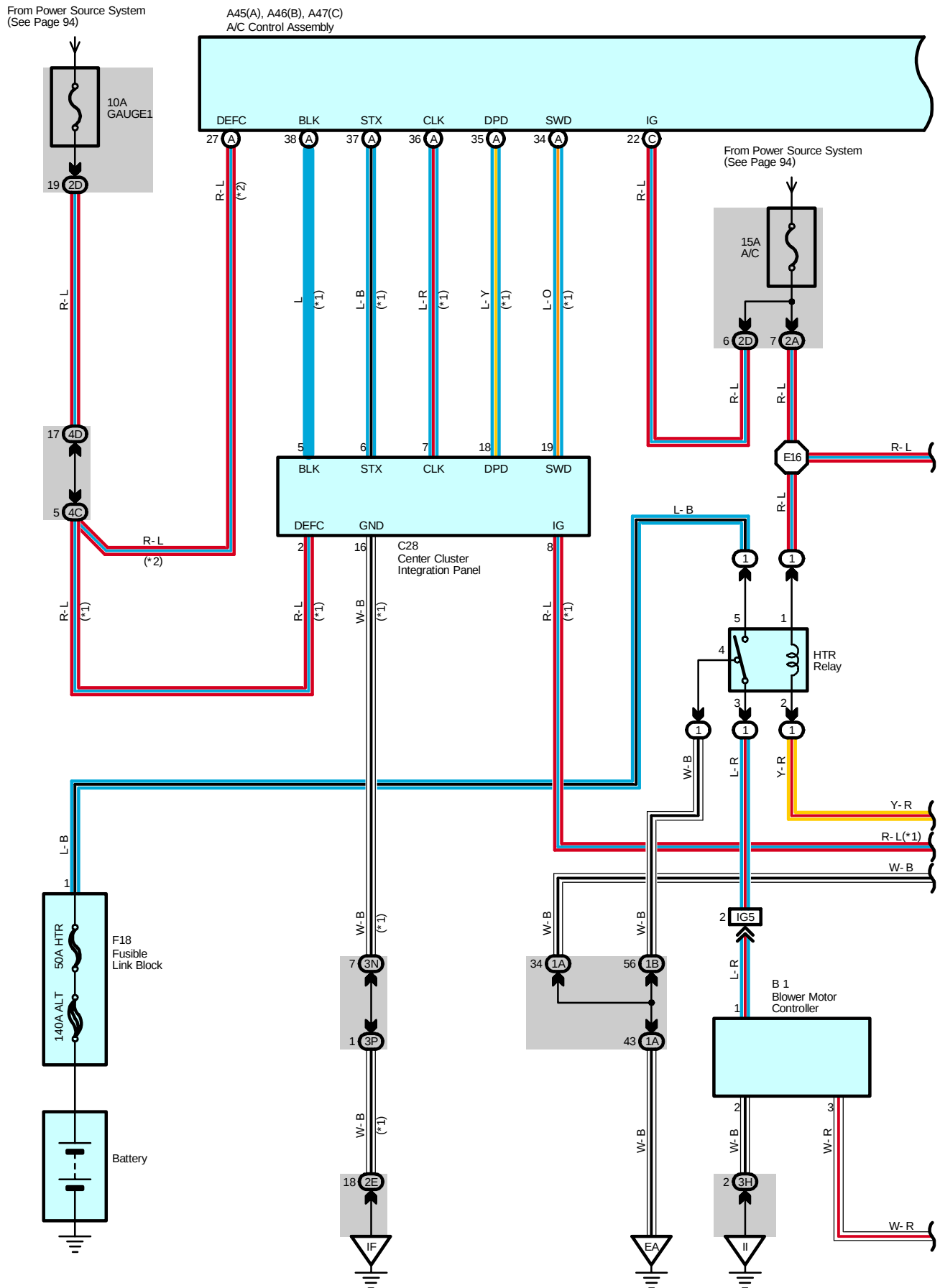
: Connector Joining Wire Harness and Wire Harness

Code	See Page	Joining Wire Harness and Wire Harness (Connector Location)
EB1	76	Engine Wire and Transmission Wire (On the Transmission)
IN2	80	Engine Wire and Dash Wire (Behind the Glove Box)
IU1	82	Instrument Panel Integration Wire and Dash Wire (Behind the Glove Box)
IU2		
IU3		
IU4		
IX1	82	Instrument Panel Integration Wire and Engine Wire (Behind the Glove Box)
IX2		
Ib2	84	Dash Wire and Dash Wire (Behind the Combination Meter)
Ie1	84	Dash Wire and Dash Wire (Behind the Glove Box)
BB1	86	Floor No.1 Wire and Fuel Tank Wire (Near the Fuel Tank)

: Ground Points

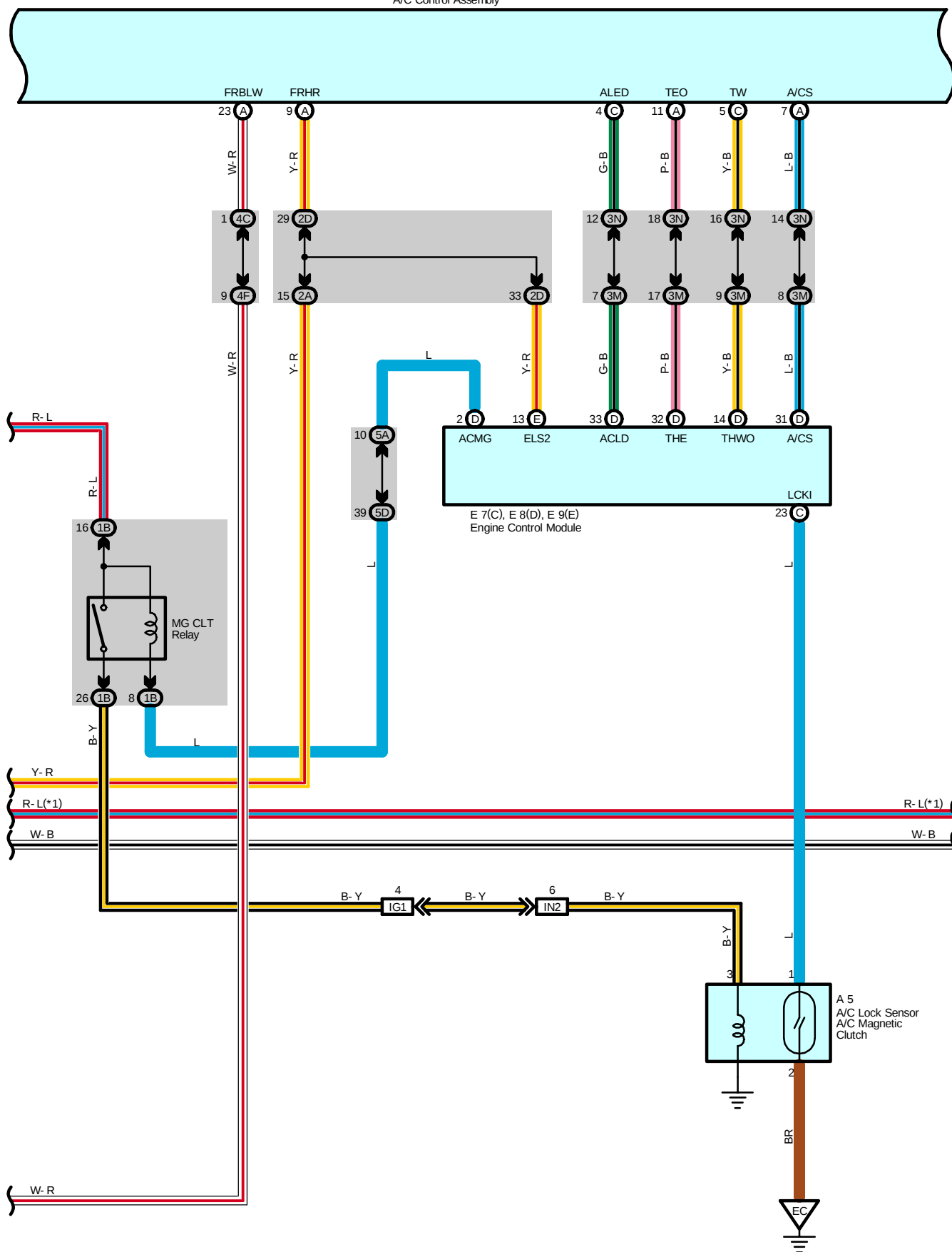
Code	See Page	Ground Points Location
EC	76	Rear Bank of Right Cylinder Head
IF	78	Set Bolt of Cowl Side J/B LH

Air Conditioning (Front)



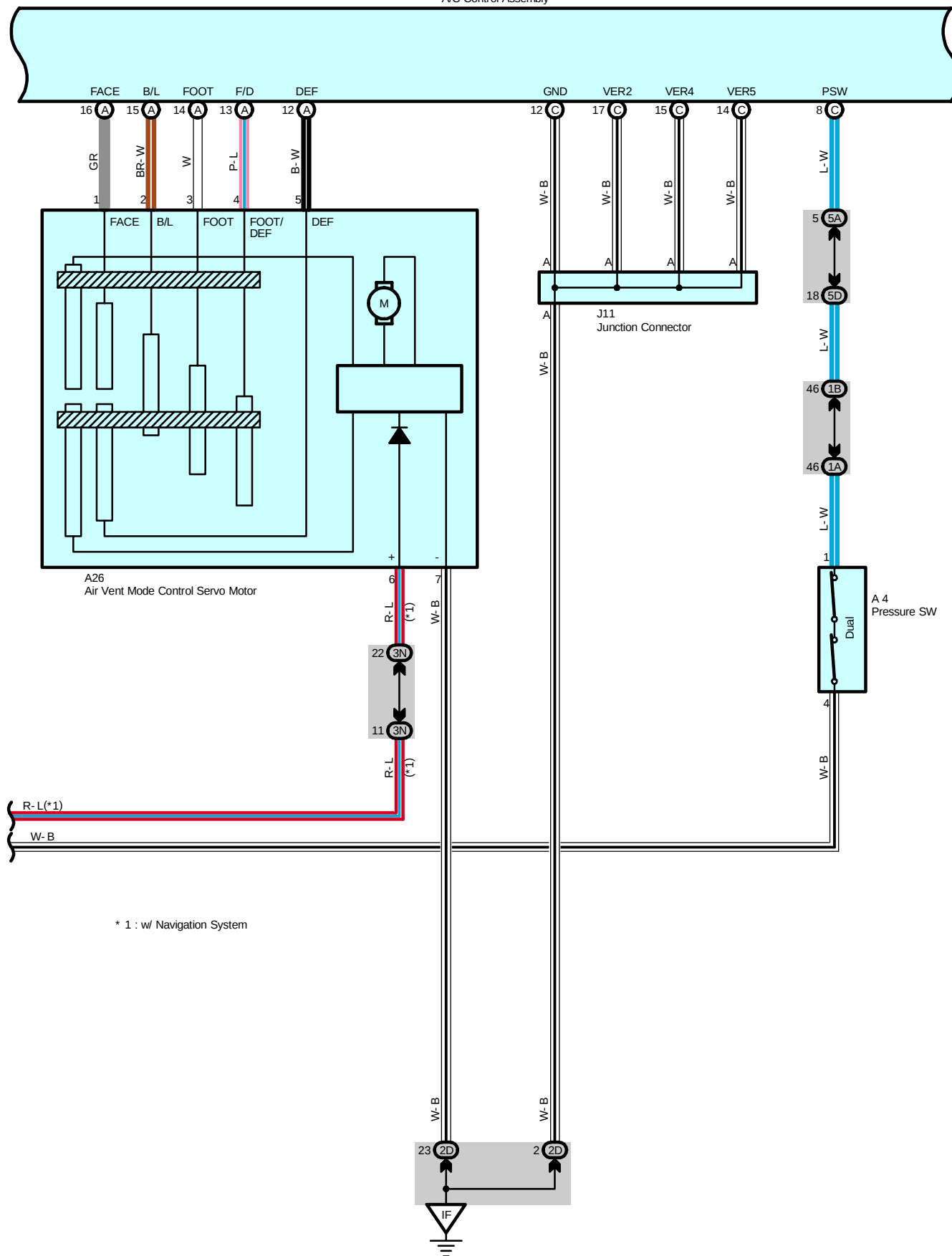
A45(A), A46(B), A47(C)
A/C Control Assembly

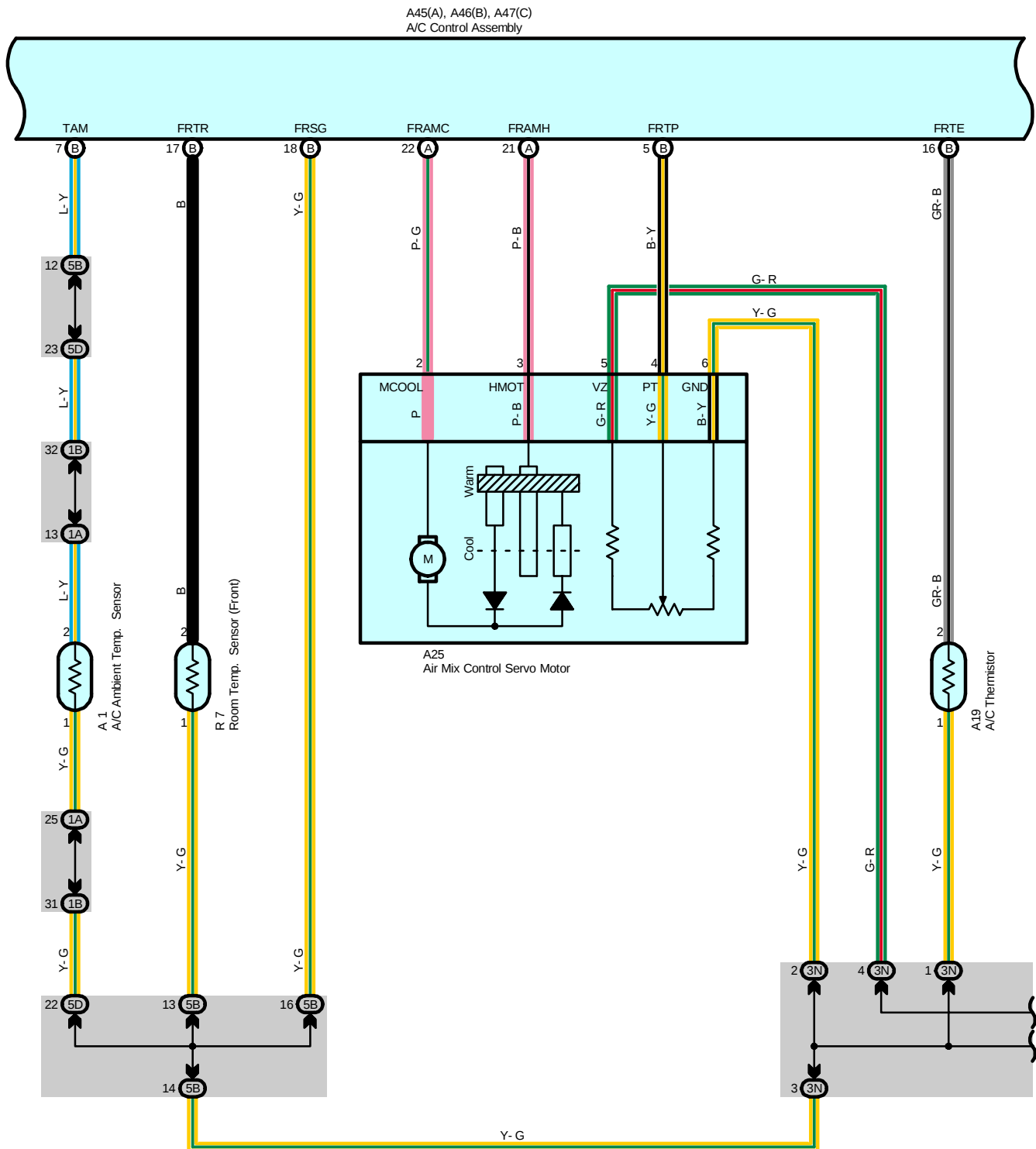
* 1 : w/ Navigation System
* 2 : w/o Navigation System



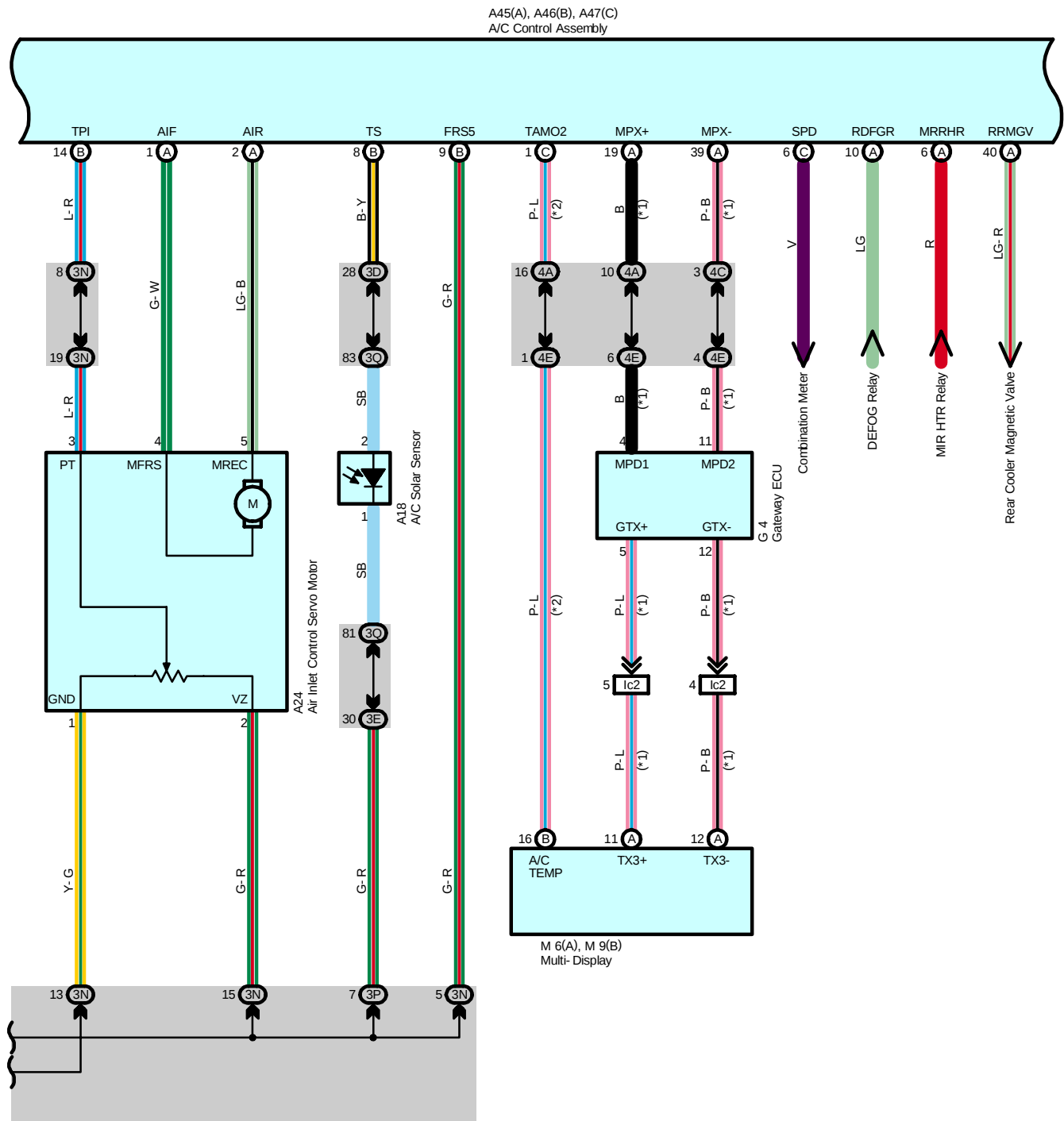
Air Conditioning (Front)

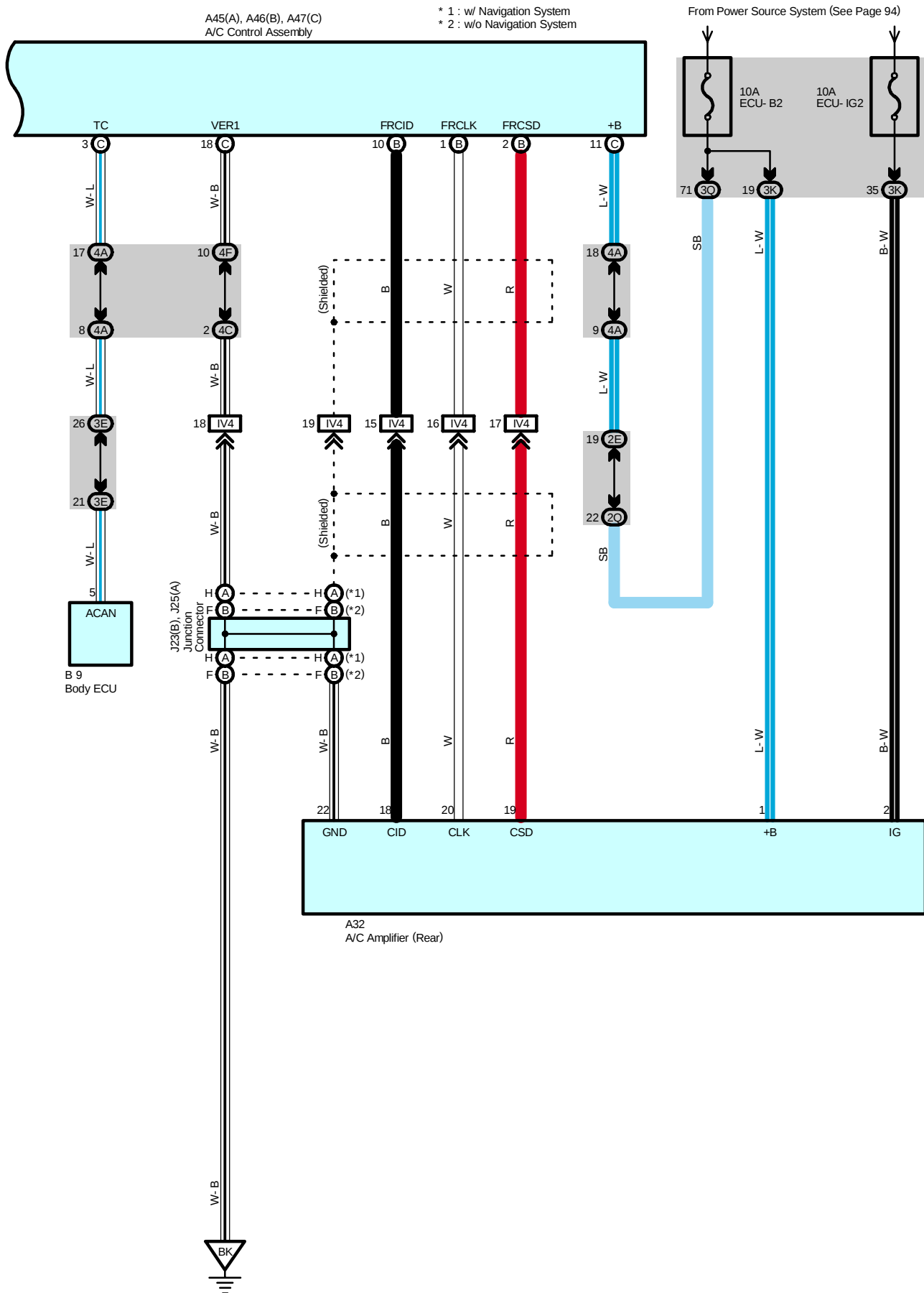
A45(A), A46(B), A47(C)
A/C Control Assembly





Air Conditioning (Front)





Air Conditioning (Front)

System Outline

1. Heater Blower Operation

Manual operation

When the blower speed is set at any speed by the blower control SW, the A/C control assembly sends a signal to the blower motor controller, and controls the blower motor speed.

Auto operation

When the auto SW is operated, the A/C control assembly sends signals to the blower motor controller, according to the signals from respective sensors, commands from the temperature SW etc., and controls the blower motor automatically.

2. Air Inlet Control Servo Motor Control

When the FRESH/RECIRC select SW is switched to RECIRC, the motor in the air inlet control servo motor rotates to move the damper to the RECIRC side. The damper position is recognized by the A/C control assembly TERMINAL TPI, and rotates the motor until the damper reaches its position.

When the FRESH/RECIRC select SW is switched to FRESH, the motor in the air inlet control servo motor rotates to move the damper to the FRESH side. The damper position is recognized by the A/C control assembly TERMINAL TPI, and rotates the motor until the damper reaches its position.

When the FRESH/RECIRC select SW is set to auto, the exhaust gas sensor in the engine room detects the ingredient of the exhaust emission, and switches the FRESH/RECIRC mode automatically.

3. Air Vent Mode Control Servo Motor

When the mode select SW in the A/C control assembly is pushed, a signal is sent from the A/C control assembly, and activates the air vent mode control servo motor. This causes the servo motor to rotate to the position selected using the mode select SW (FACE, BI-LEVEL, FOOT, FOOT/DEF, DEF), and moves the damper.

4. Air Mix Control Servo Motor

When the temperature control SW in the A/C control assembly is pushed, a signal is sent from the A/C control assembly, and activates the air mix control servo motor. The motor and damper is moved until it reaches the temperature set by the temperature control SW.

5. Air Conditioning Operation

The A/C control assembly receives various signals, i. e., the engine RPM from the crankshaft position sensor, outlet temperature from the A/C ambient temp. sensor, coolant temperature from the engine coolant temp. sensor, and the lock signal from the A/C compressor, etc. When the engine is started and the A/C SW is turned on, a signal is sent to the A/C control assembly. As a result, the magnetic clutch is turned on and operates the compressor.

In addition, when the engine control module detects that the magnetic clutch is on and the A/C compressor is operating, it controls the engine in the direction to avoid lowering the engine RPM during A/C operation.

When any of the following signals are sent to the A/C control assembly, the A/C is turned off.

- * Coolant temp. is high.
- * Outlet air temp. is low.
- * Large difference between the engine speed and compressor speed.
- * The refrigerant pressure is abnormally high or low.

Service Hints

A45 (A), A47 (C) A/C Control Assembly

(C)11-Ground : Always approx. 12 volts

(C)22-Ground : Approx. 12 volts with ignition SW at ON or ST position

(A)27-Ground : Approx. 12 volts with ignition SW at ON or ST position (w/o navigation system)

(C)12, (C) 14, (C) 15, (C) 17, (C) 18-Ground : Always continuity

C28 Center Cluster Integration Panel (w/ Navigation System)

2-Ground : Approx. 12 volts with ignition SW at ON or ST position

16-Ground : Always continuity

 : Parts Location

Code	See Page	Code		See Page	Code		See Page
A1	68	A45	A	70	F18	68	
A4	68	A46	B	70	G4	70	
A5	68	A47	C	70	J11	71	
A18	70	B1		70	J23	B	72
A19	70	B9		70	J25	A	72
A24	70	C28		70	M6	A	71
A25	70	E7	C	70	M9	B	71
A26	70	E8	D	70	R7		71
A32	72	E9	E	70			

 : 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	24	Engine Room No.2 Wire and Engine Room J/B (Engine Compartment Left)
2A	28	Engine Room No.2 Wire and Cowl Side J/B LH (Left Kick Panel)
2D	28	Dash Wire and Cowl Side J/B LH (Left Kick Panel)
2E		
2Q	30	Instrument Panel Integration Wire and Cowl Side J/B LH (Left Kick Panel)
3D	40	Dash Wire and Cowl Side J/B RH (Right Kick Panel)
3E		
3H		
3K	40	Floor No.2 Wire and Cowl Side J/B RH (Right Kick Panel)
3M	43	Dash Wire and Cowl Side J/B RH (Right Kick Panel)
3N		
3P		
3Q	42	Instrument Panel Integration Wire and Cowl Side J/B RH (Right Kick Panel)
4A	52	Dash Wire and J/B No.4 (Instrument Panel Center)
4C		
4D		
4E		
4F		
5A	56	Dash Wire and J/B No.5 (Behind the Combination Meter)
5B		
5D	56	Engine Room No.2 Wire and J/B No.5 (Behind the Combination Meter)

 : Connector Joining Wire Harness and Wire Harness

Code	See Page	Joining Wire Harness and Wire Harness (Connector Location)
IG1	78	Engine Room No.2 Wire and Dash Wire (Behind the Combination Meter)
IG5		
IN2	80	Engine Wire and Dash Wire (Behind the Glove Box)
IV4	82	Dash Wire and Floor No.2 Wire (Right Kick Panel)
Ic2	84	Dash Wire and Dash Wire (Behind the Center Panel)

Air Conditioning (Front)



: Ground Points

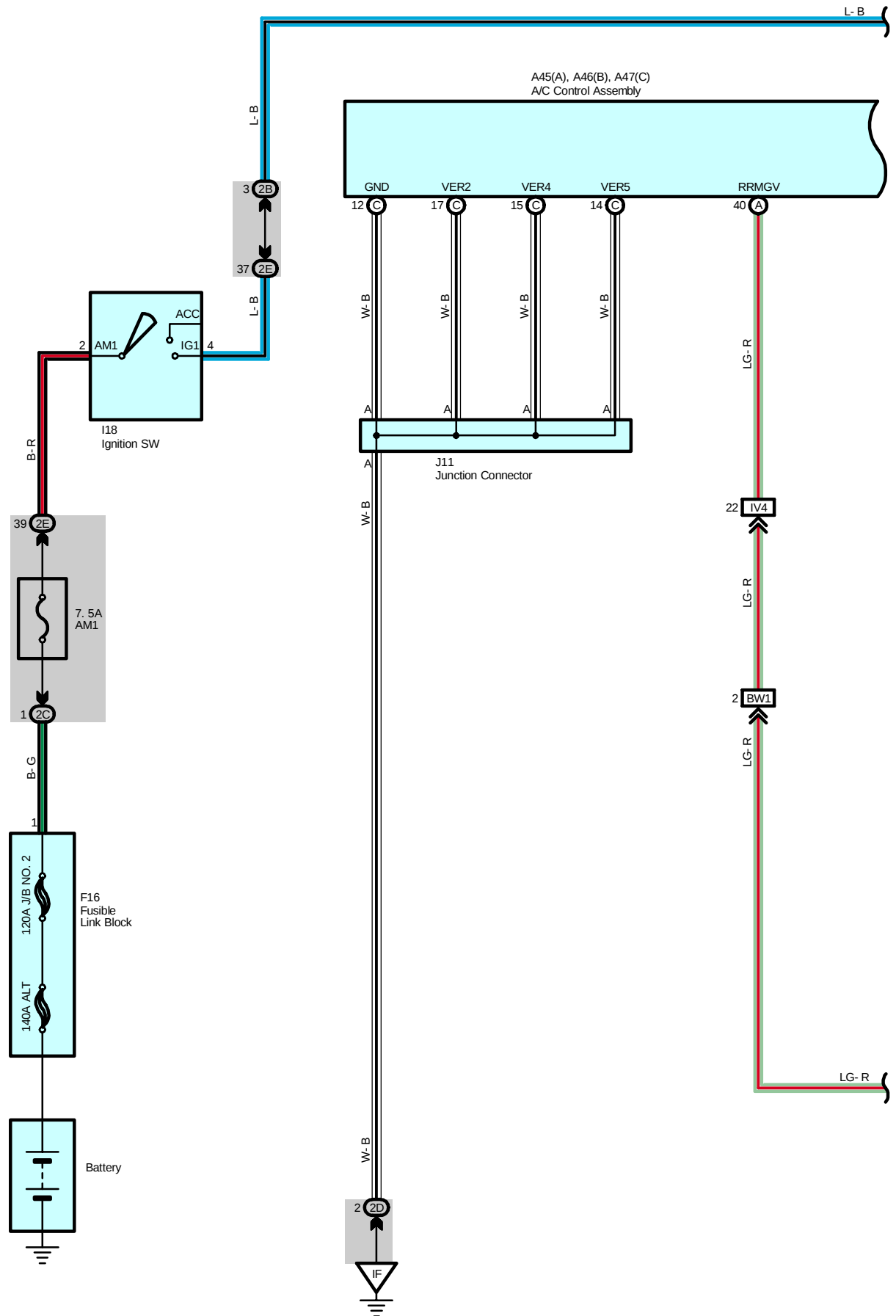
Code	See Page	Ground Points Location
EA	76	Front Right Side of Fender Apron
EC	76	Rear Bank of Right Cylinder Head
IF	78	Set Bolt of Cowl Side J/B LH
II	78	Set Bolt of Cowl Side J/B RH
BK	86	Front Side Under the Front Passenger's Seat

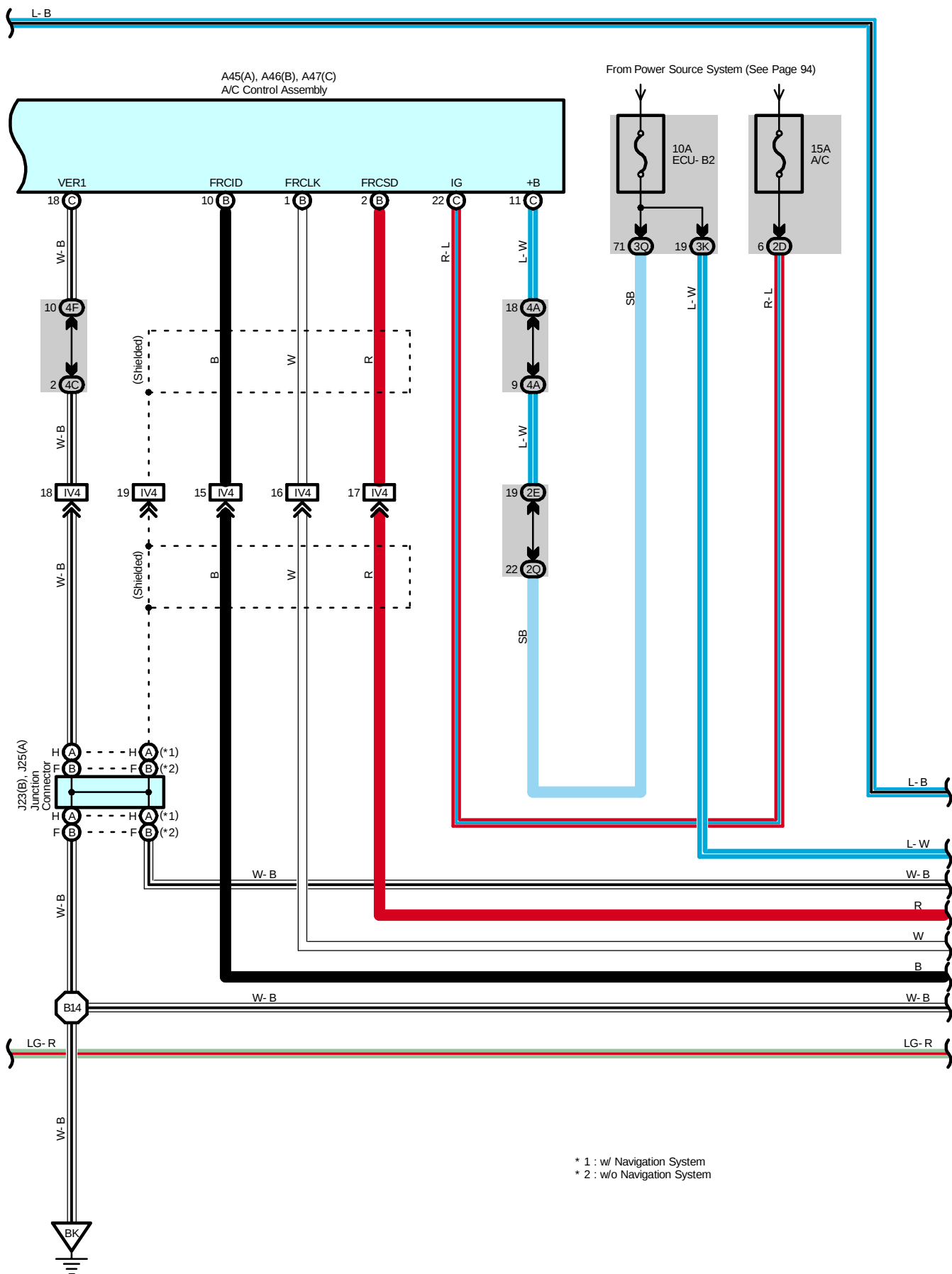


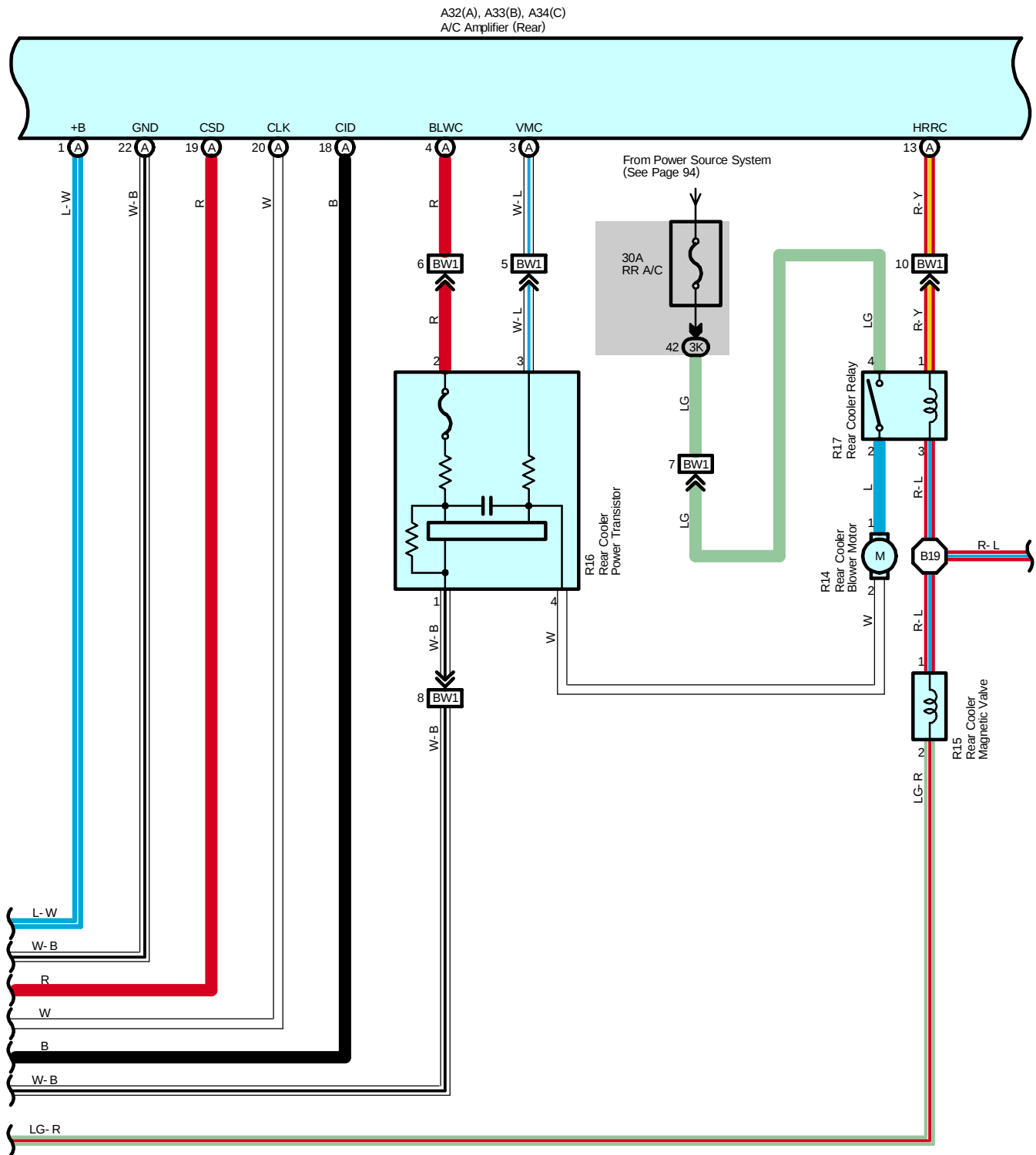
: Splice Points

Code	See Page	Wire Harness with Splice Points	Code	See Page	Wire Harness with Splice Points
E16	76	Engine Room No.2 Wire			

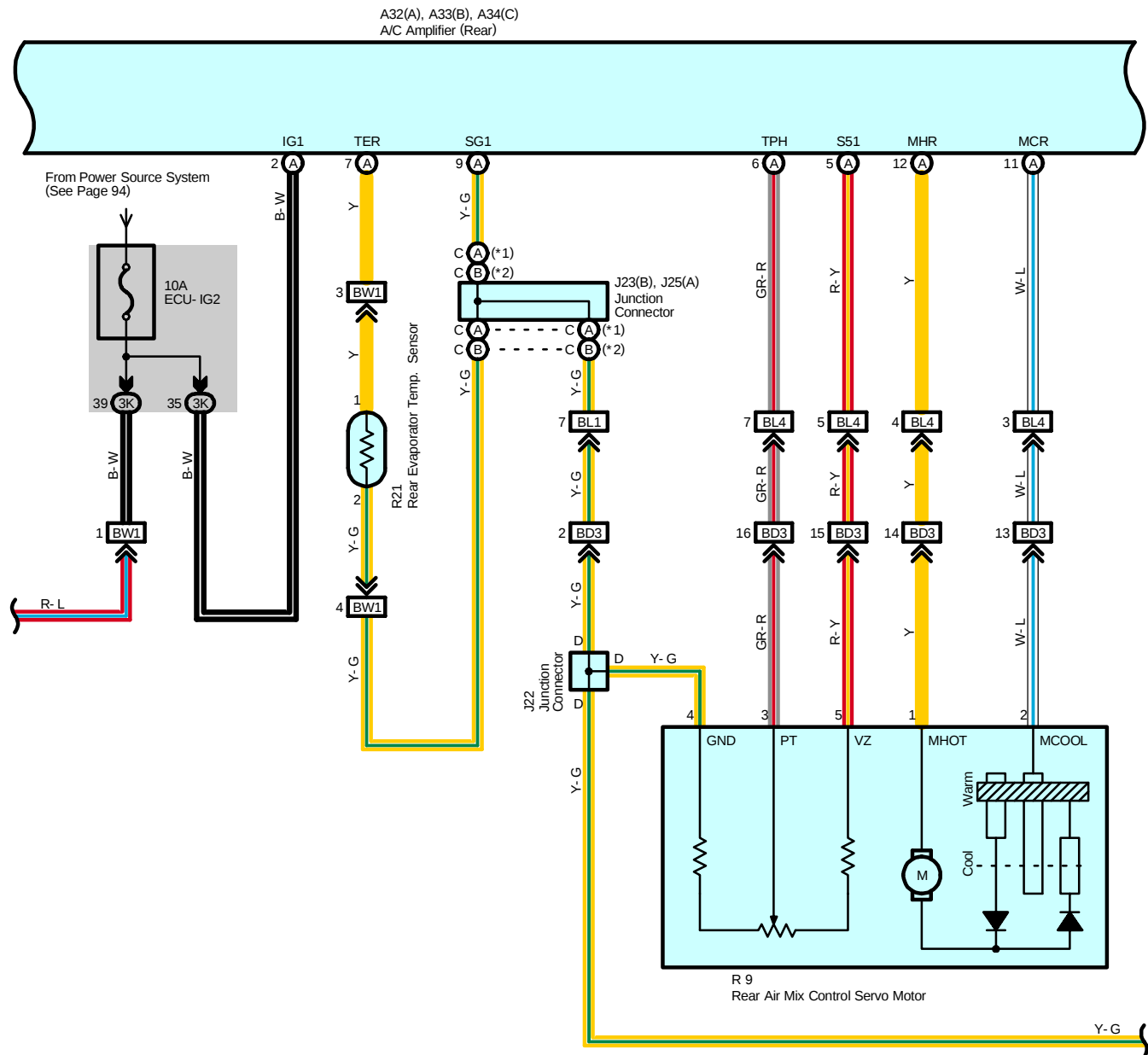
Air Conditioning (Rear)



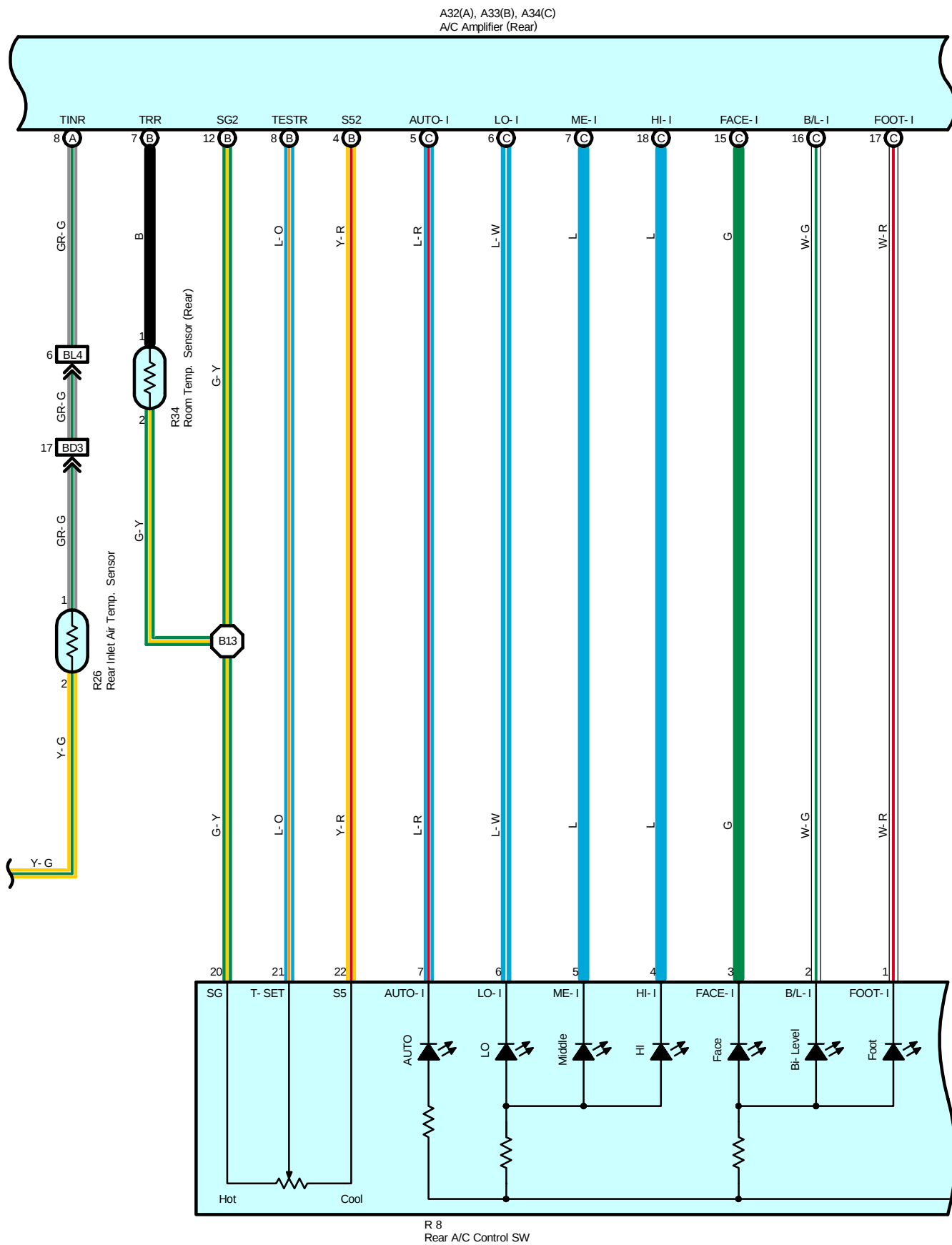




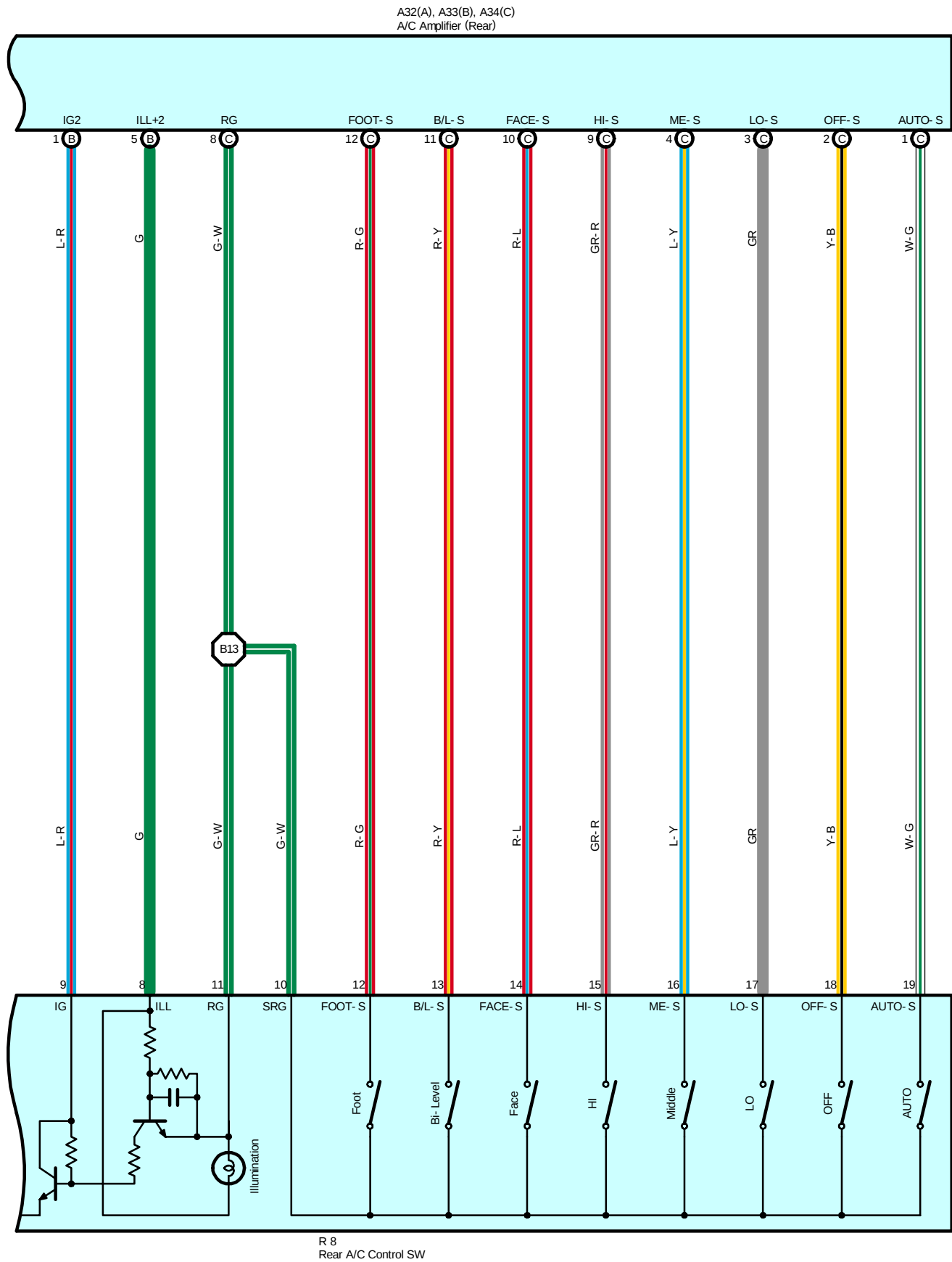
Air Conditioning (Rear)



- * 1 : w/ Navigation System
- * 2 : w/o Navigation System



Air Conditioning (Rear)



System Outline

1. Cooler and Heater Blower Operation

* Manual operation

When the blower control SW in the rear A/C control SW is set to any blower speed, a signal is sent to the A/C amplifier. The A/C amplifier controls the power transistor and operates the rear cooler blower motor and rear heater blower motor at the set speed.

* Auto operation

When the auto SW in the rear A/C control SW is operated, a signal is sent to the A/C amplifier. The A/C amplifier controls the power transistor according to the signals from respective sensors, and operates the rear cooler blower motor and rear heater blower motor.

2. Air Mix Control Servo Motor Control

When the temperature control lever in the rear A/C control SW is operated, a signal is sent to the A/C amplifier. The A/C amplifier controls the rear air mix control servo motor to operate the damper until it reaches the temperature set by the temperature control lever.

3. Air Conditioning Operation

The cooler and heater operation can be switched by the mode select SW in the rear A/C control SW.

Service Hints

A32 A/C Amplifier (Rear)

1-Ground : Always approx. 12 volts

2-Ground : Approx. 12 volts with ignition SW at ON or ST position

22-Ground : Always continuity

○ : Parts Location

Code		See Page	Code		See Page	Code	See Page
A32	A	72	J11		71	R16	73
A33	B	72	J22		72	R17	73
A34	C	72	J23	B	72	R21	73
A45	A	70	J25	A	72	R22	73
A46	B	70	R8		73	R25	73
A47	C	70	R9		73	R26	73
F16		68	R14		73	R34	73
I18		70	R15		73		

○ : Junction Block and Wire Harness Connector

Code	See Page	Junction Block and Wire Harness (Connector Location)
1B	24	Engine Room No.2 Wire and Engine Room J/B (Engine Compartment Left)
2B	28	Engine Room No.2 Wire and Cowl Side J/B LH (Left Kick Panel)
2C		
2D	28	Dash Wire and Cowl Side J/B LH (Left Kick Panel)
2E		
2Q	30	Instrument Panel Integration Wire and Cowl Side J/B LH (Left Kick Panel)
3B	40	Engine Room No.2 Wire and Cowl Side J/B RH (Right Kick Panel)
3K	40	Floor No.2 Wire and Cowl Side J/B RH (Right Kick Panel)
3Q	42	Instrument Panel Integration Wire and Cowl Side J/B RH (Right Kick Panel)
4A	52	Dash Wire and J/B No.4 (Instrument Panel Center)
4C		
4F		

Air Conditioning (Rear)

: Connector Joining Wire Harness and Wire Harness

Code	See Page	Joining Wire Harness and Wire Harness (Connector Location)
IA2	78	Engine Room No.2 Wire and Floor No.1 Wire (Left Kick Panel)
IV4	82	Dash Wire and Floor No.2 Wire (Right Kick Panel)
BD3	86	Floor No.3 Wire and Floor No.1 Wire (Left Rear Side Quarter Panel)
BL1	88	Floor No.2 Wire and Floor No.3 Wire (Right Side of Rear Floor Crossmember)
BL4		
BW1	88	Floor No.2 Wire and A/C Sub Wire (Right Side Rear Quarter Panel)

: Ground Points

Code	See Page	Ground Points Location
IF	78	Set Bolt of Cowl Side J/B LH
BJ	86	Under the Driver's Seat
BK	86	Front Side Under the Front Passenger's Seat

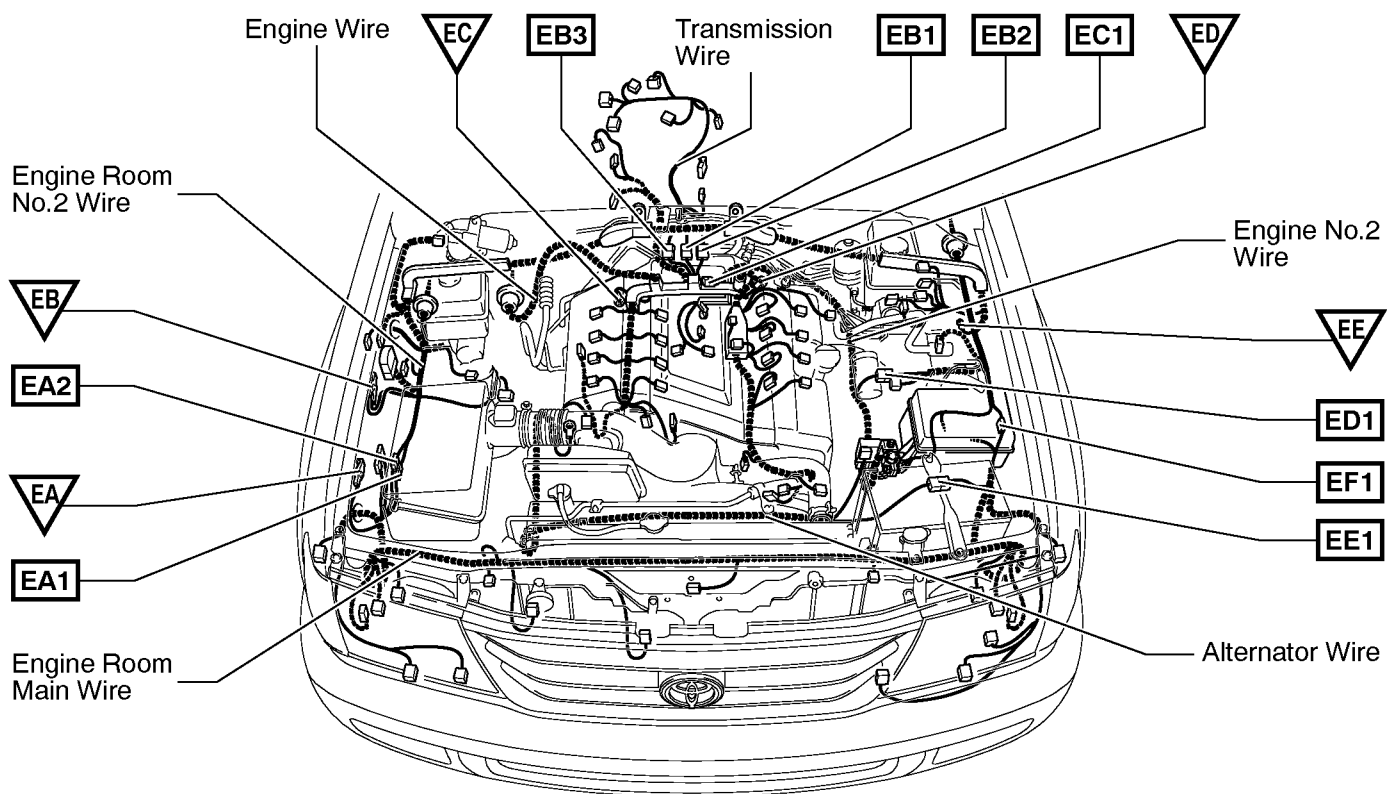
: Splice Points

Code	See Page	Wire Harness with Splice Points	Code	See Page	Wire Harness with Splice Points
B13	88	Roof No.2 Wire	B19	88	A/C Sub Wire
B14	88	Floor No.2 Wire			

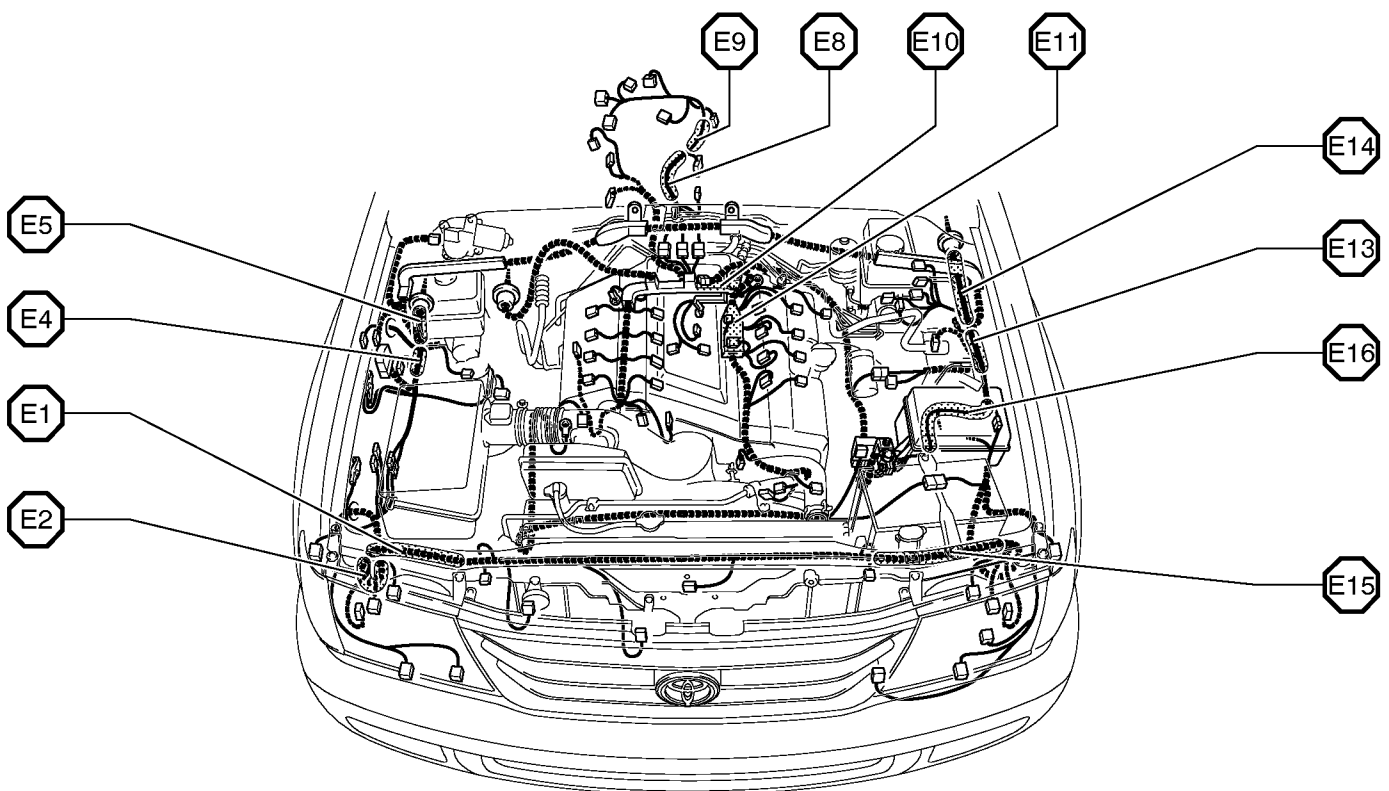
G ELECTRICAL WIRING ROUTING

□ : Location of Connector Joining Wire Harness and Wire Harness

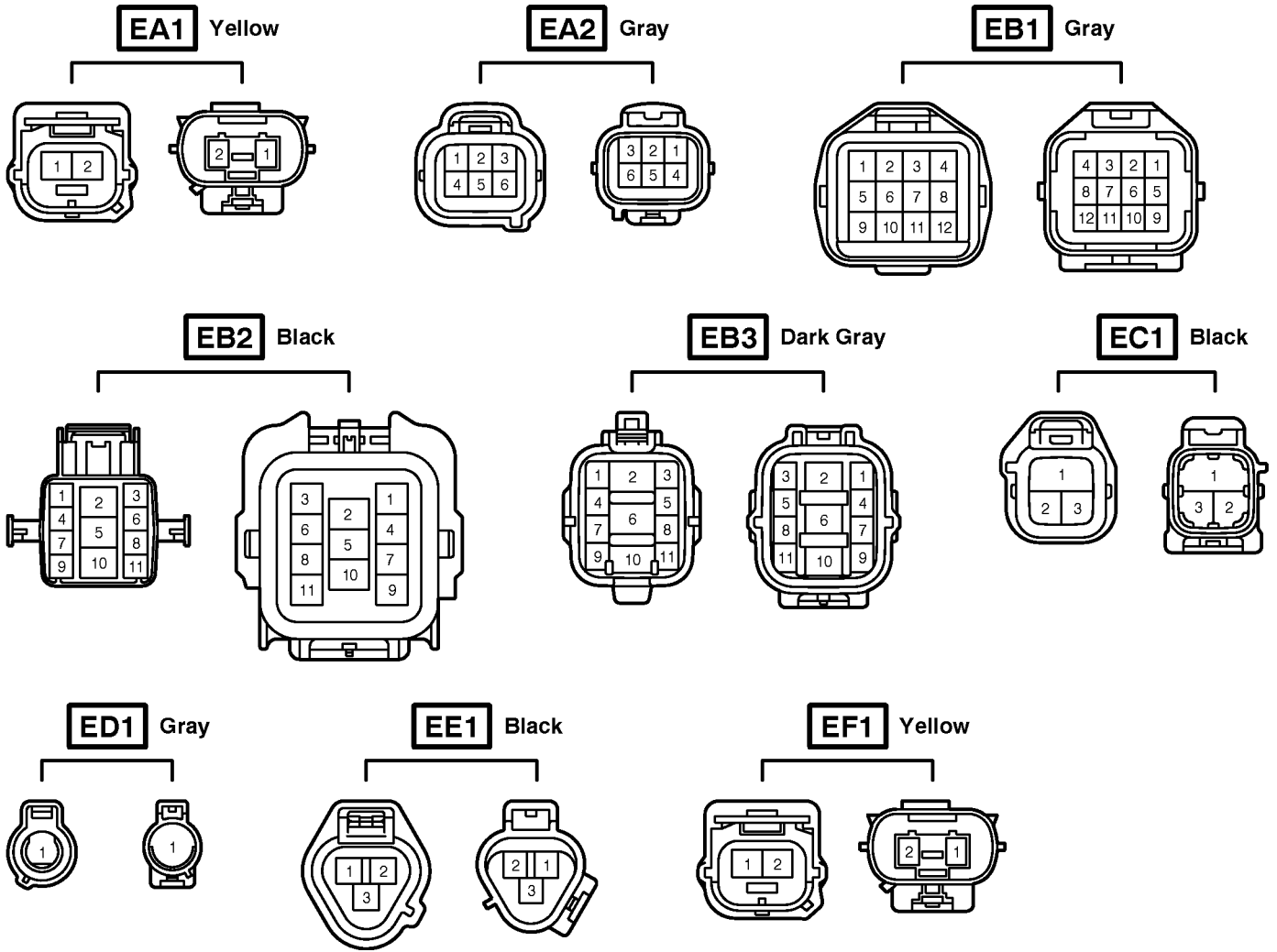
▽ : Location of Ground Points



○ : Location of Splice Points



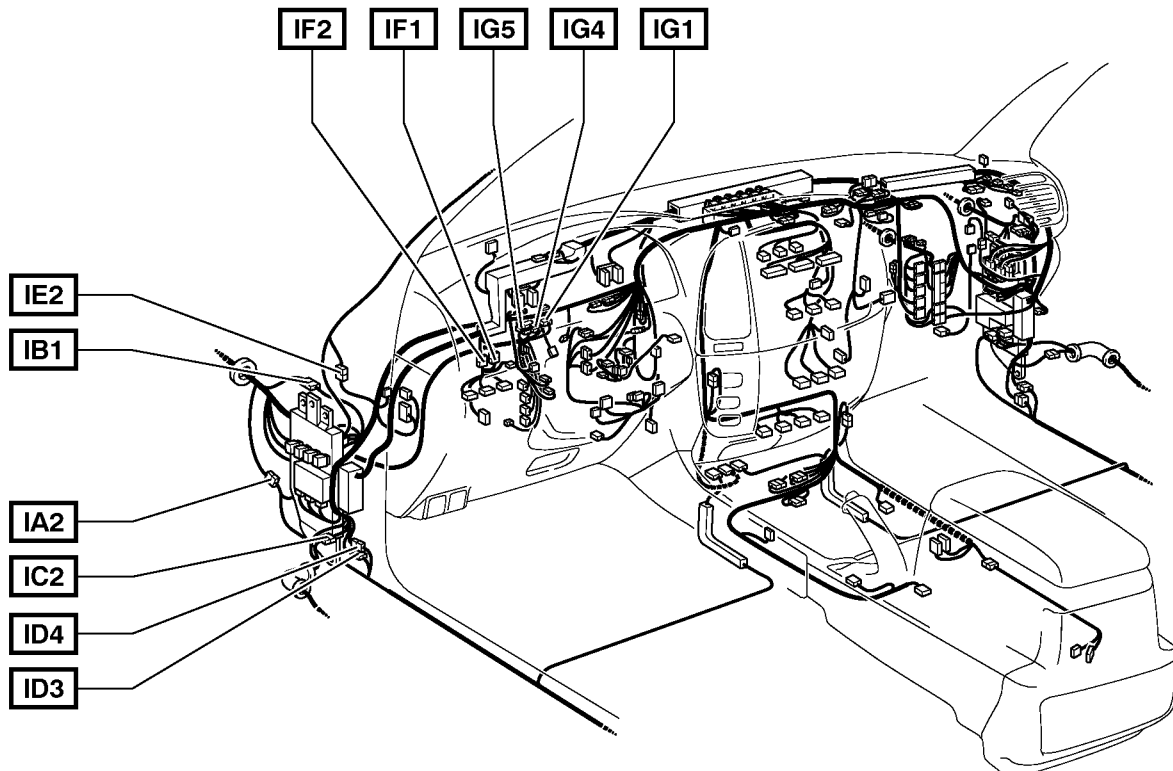
Connector Joining Wire Harness and Wire Harness



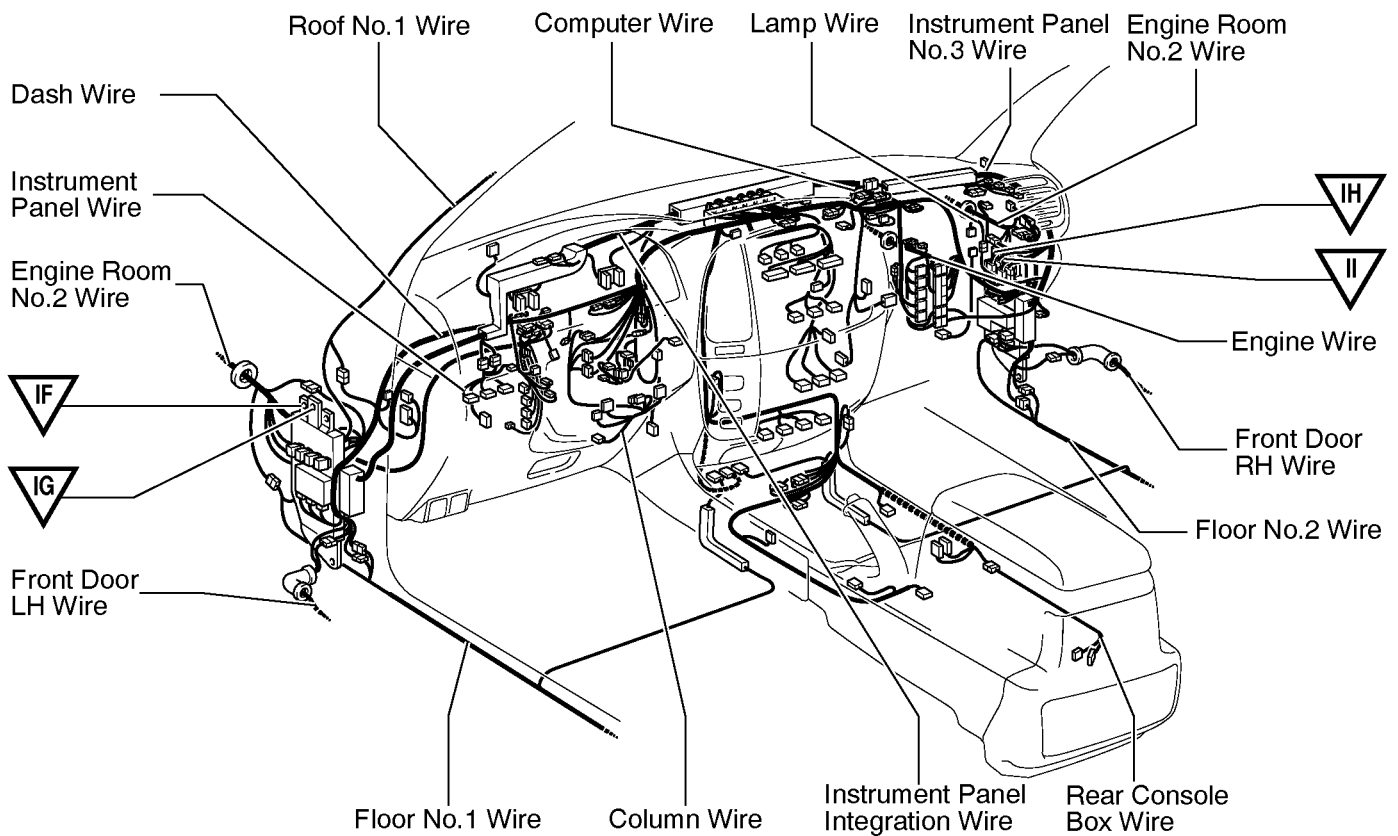
Code	Joining Wire Harness and Wire Harness (Connector Location)
EA1	Engine Room Main Wire and Engine Room No.2 Wire (Engine Compartment Right)
EA2	
EB1	
EB2	Engine Wire and Transmission Wire (On the Transmission)
EB3	
EC1	Engine No.2 Wire and Engine Wire (On the Transmission)
ED1	Engine No.2 Wire and Engine Room No.2 Wire (Near the Engine Room J/B)
EE1	Engine Room Main Wire and Alternator Wire (Near the Battery)
EF1	Engine Room No.2 Wire and Engine Room Main Wire (Under the Engine Room J/B)

G ELECTRICAL WIRING ROUTING

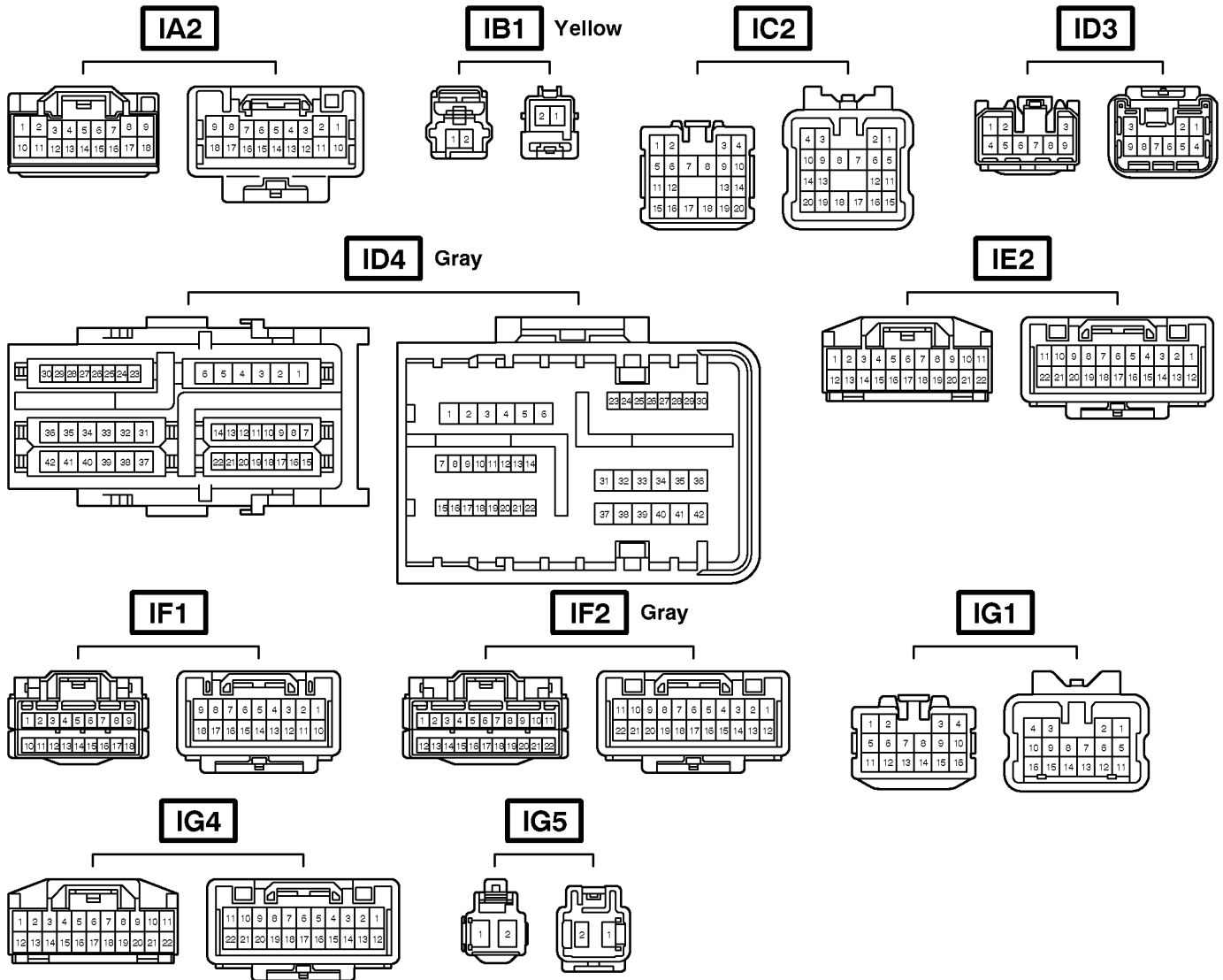
□ : Location of Connector Joining Wire Harness and Wire Harness



▽ : Location of Ground Points



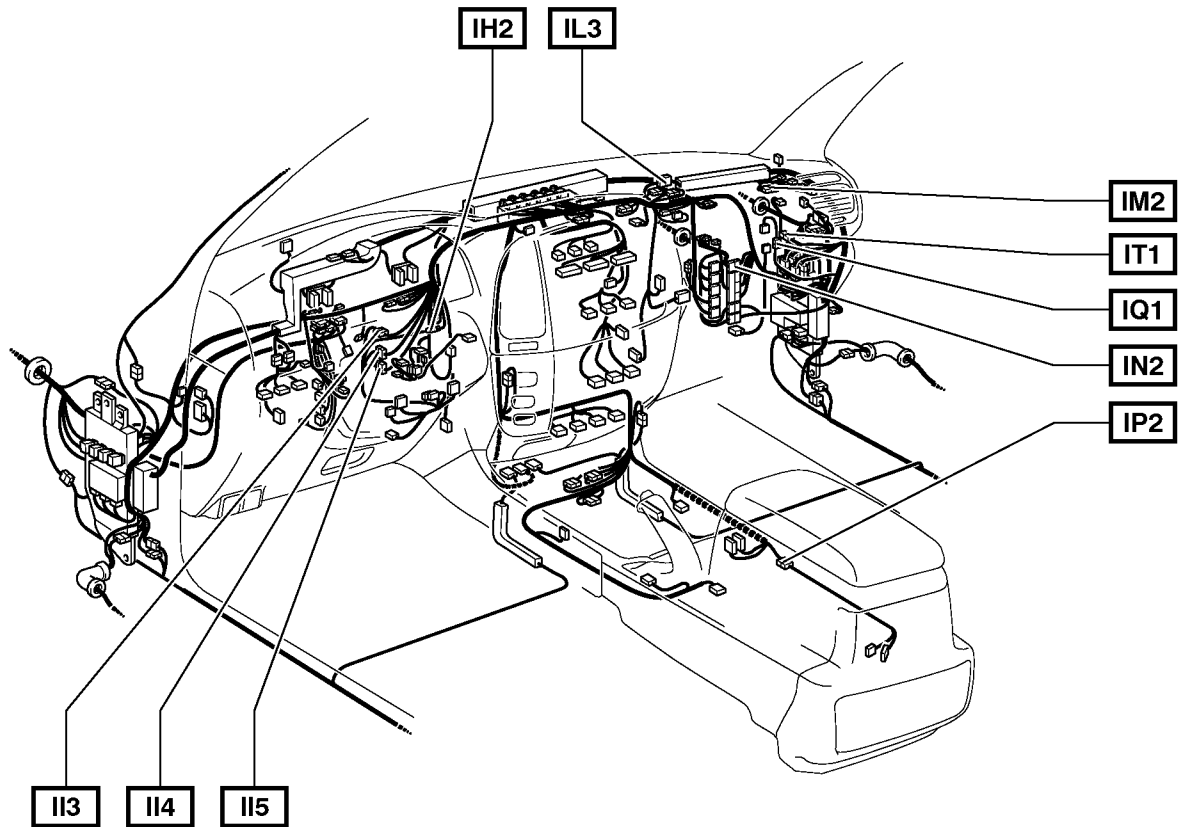
Connector Joining Wire Harness and Wire Harness



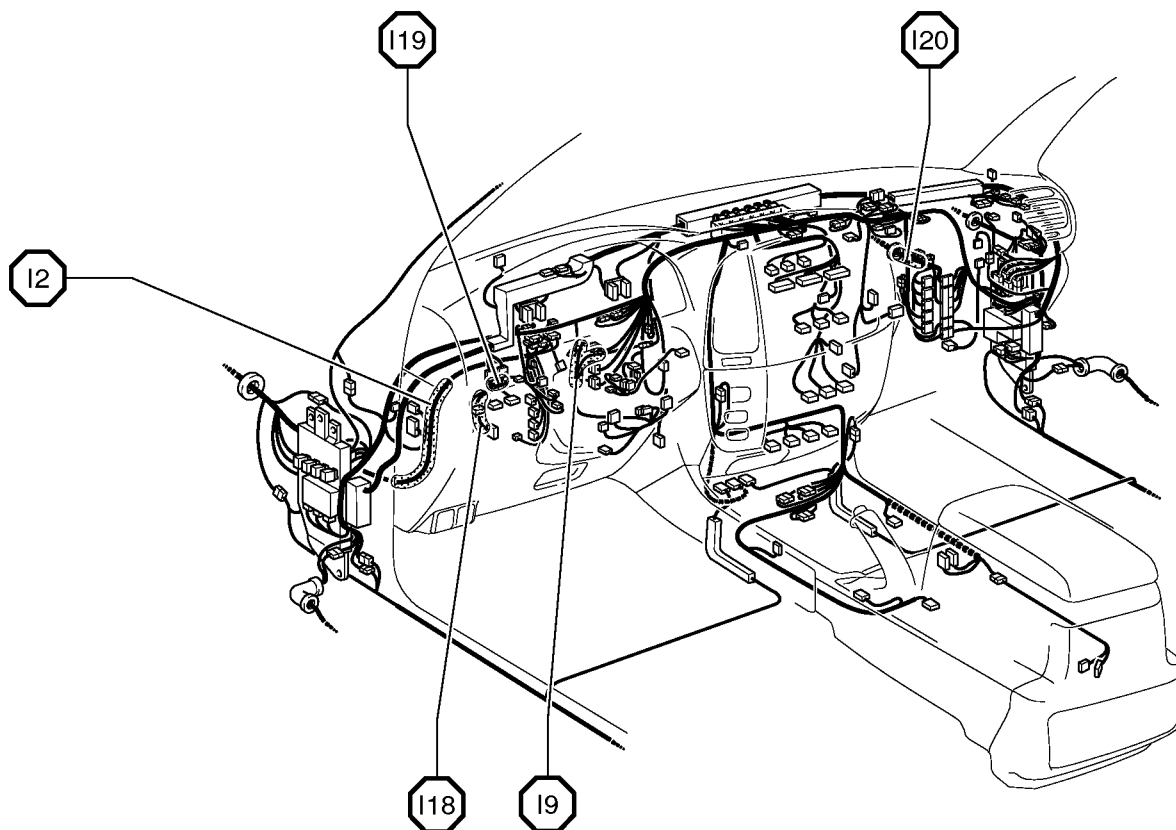
Code	Joining Wire Harness and Wire Harness (Connector Location)
IA2	Engine Room No.2 Wire and Floor No.1 Wire (Left Kick Panel)
IB1	Engine Room No.2 Wire and Dash Wire (Left Kick Panel)
IC2	Front Door LH Wire and Dash Wire (Left Kick Panel)
ID3	Dash Wire and Floor No.1 Wire (Left Kick Panel)
ID4	Dash Wire and Floor No.1 Wire (Left Kick Panel)
IE2	Dash Wire and Roof No.1 Wire (Left Kick Panel)
IF1	Instrument Panel Integration Wire and Instrument Panel Wire (Left Side of Instrument Panel)
IF2	Instrument Panel Integration Wire and Instrument Panel Wire (Left Side of Instrument Panel)
IG1	
IG4	Engine Room No.2 Wire and Dash Wire (Behind the Combination Meter)
IG5	

G ELECTRICAL WIRING ROUTING

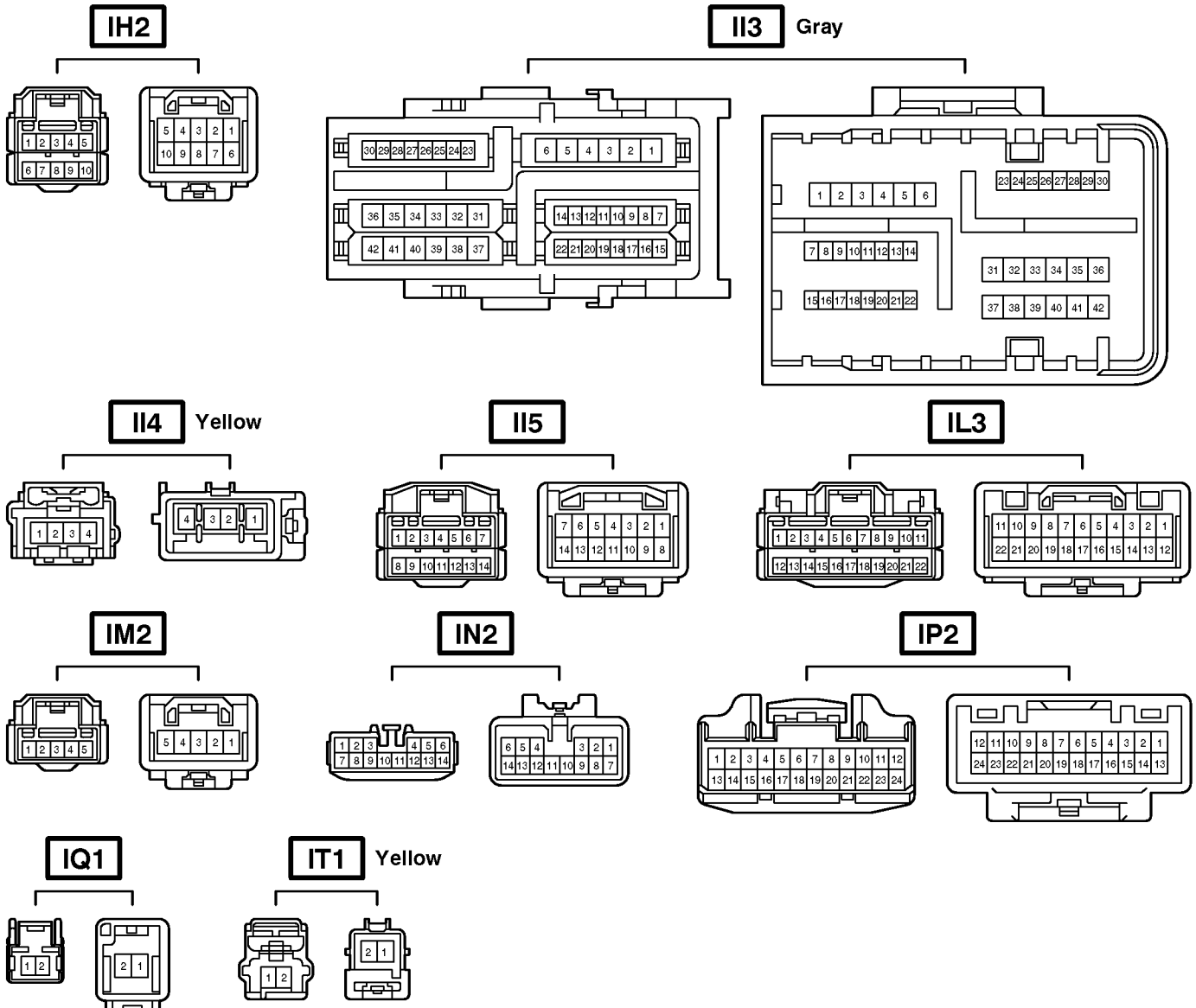
□ : Location of Connector Joining Wire Harness and Wire Harness



○ : Location of Splice Points



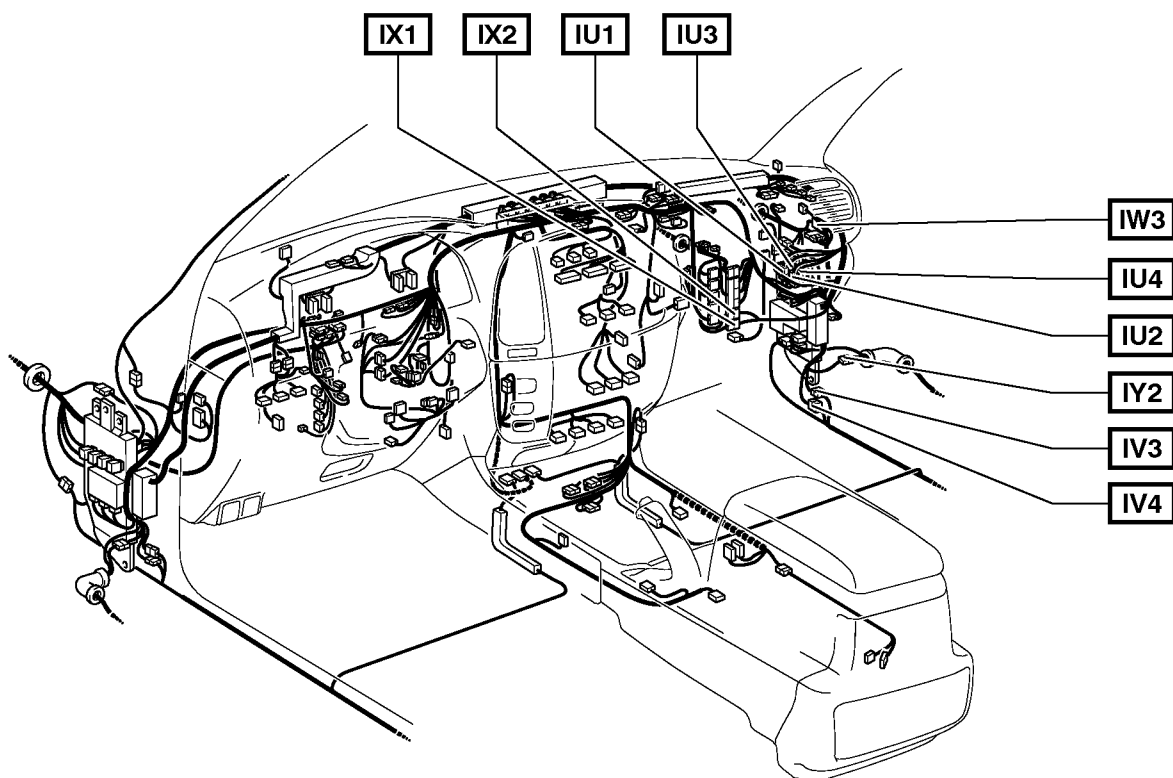
Connector Joining Wire Harness and Wire Harness



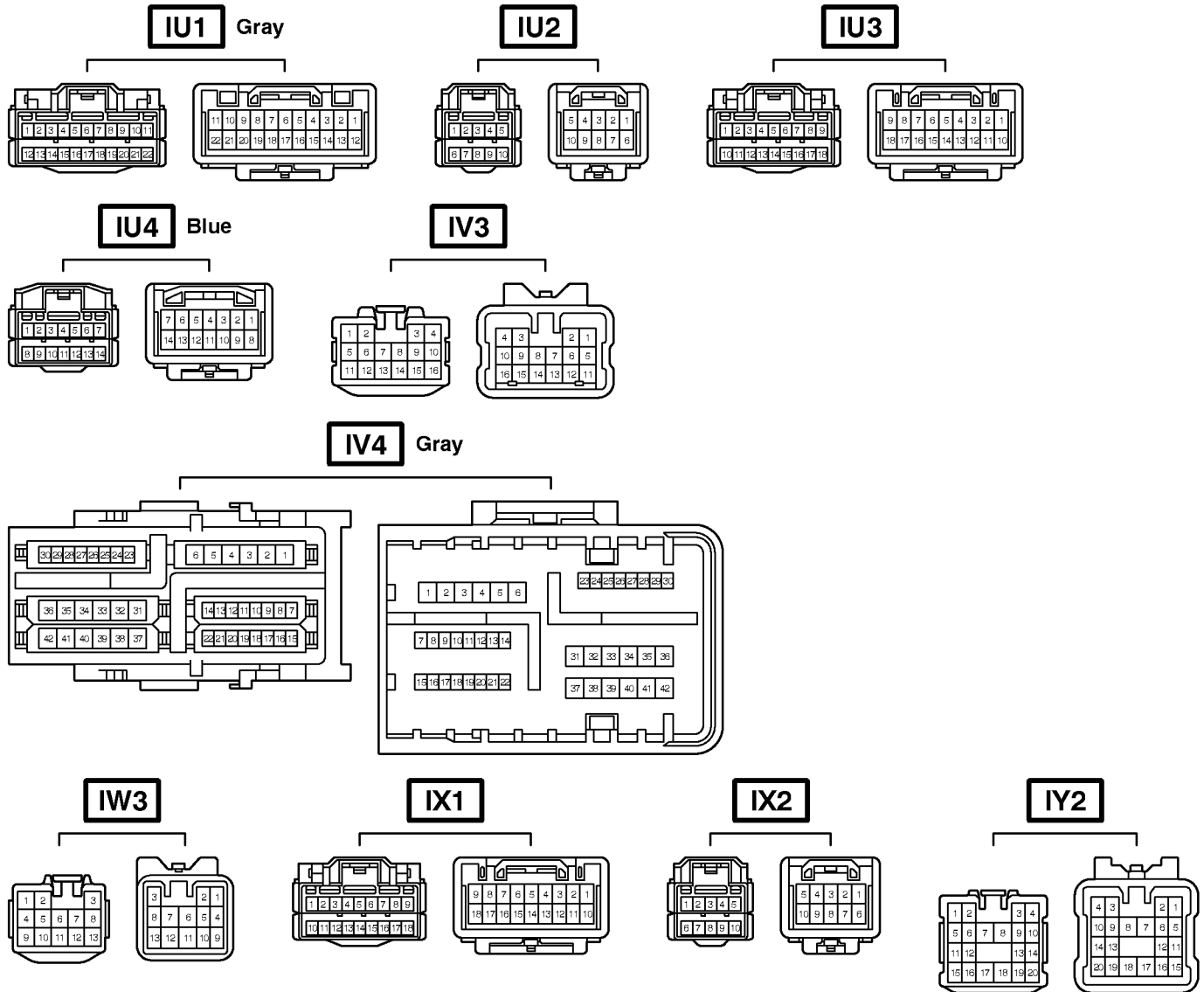
Code	Joining Wire Harness and Wire Harness (Connector Location)
IH2	Instrument Panel Integration Wire and Column Wire (Near the Ignition SW)
II3	
II4	Dash Wire and Column Wire (Near the Ignition SW)
II5	
IL3	Instrument Panel Integration Wire and Computer Wire (Instrument Panel Center)
IM2	Instrument Panel Integration Wire and Instrument Panel No.3 Wire (Right Side of Instrument Panel)
IN2	Engine Wire and Dash Wire (Behind the Glove Box)
IP2	Rear Console Box Wire and Dash Wire (Right Side of Rear Console)
IQ1	Instrument Panel Integration Wire and Lamp Wire (Behind the Glove Box)
IT1	Engine Room No.2 Wire and Dash Wire (Right Kick Panel)

G ELECTRICAL WIRING ROUTING

□ : Location of Connector Joining Wire Harness and Wire Harness



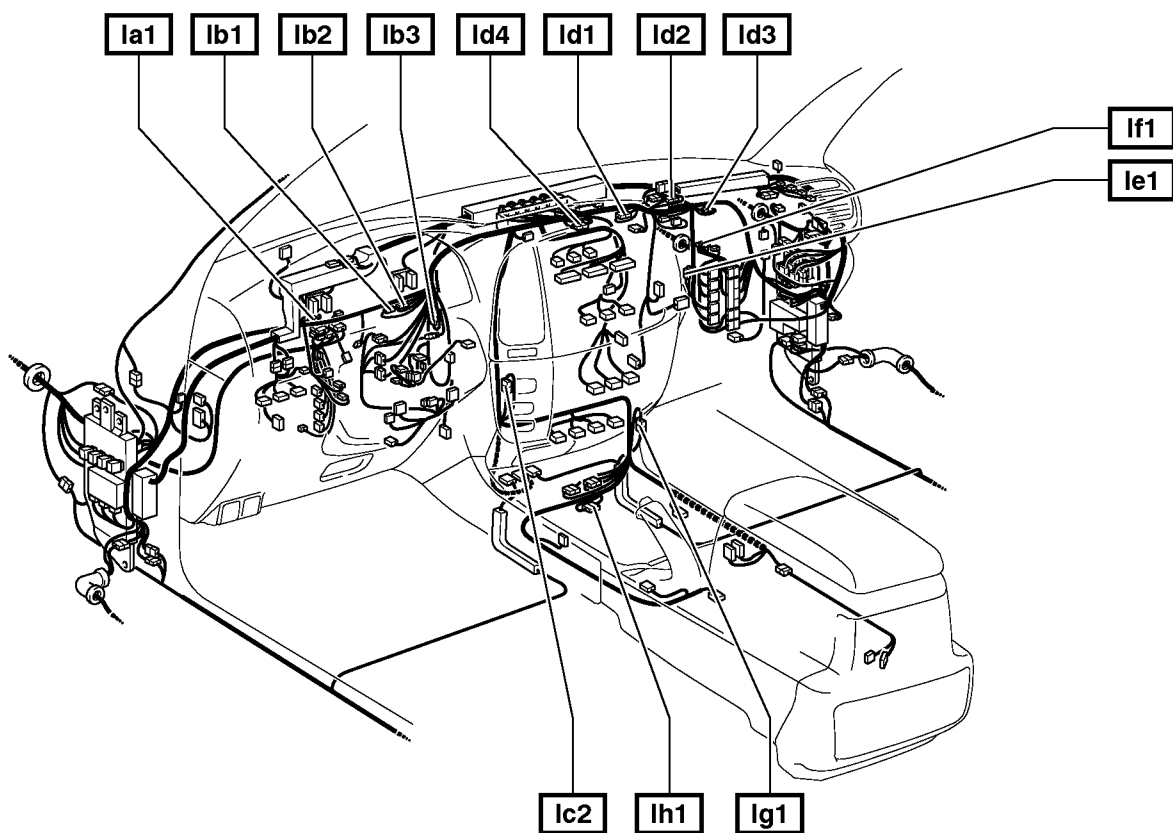
Connector Joining Wire Harness and Wire Harness



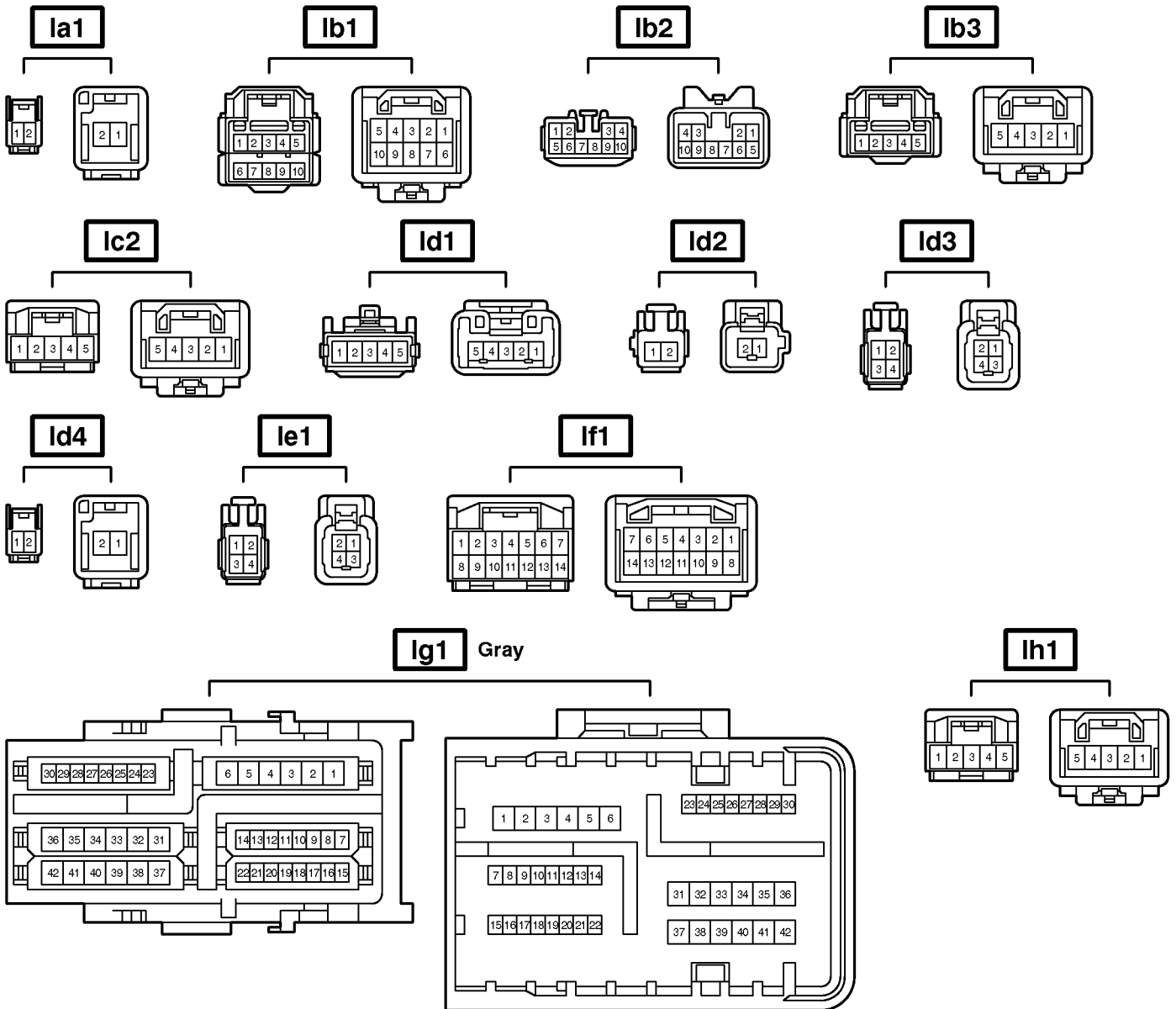
Code	Joining Wire Harness and Wire Harness (Connector Location)
IU1	Instrument Panel Integration Wire and Dash Wire (Behind the Glove Box)
IU2	
IU3	
IU4	
IV3	Dash Wire and Floor No.2 Wire (Right Kick Panel)
IV4	
IW3	Engine Room No.2 Wire and Dash Wire (Behind the Glove Box)
IX1	Instrument Panel Integration Wire and Engine Wire (Behind the Glove Box)
IX2	
IY2	Front Door RH Wire and Dash Wire (Right Kick Panel)

G ELECTRICAL WIRING ROUTING

□ : Location of Connector Joining Wire Harness and Wire Harness



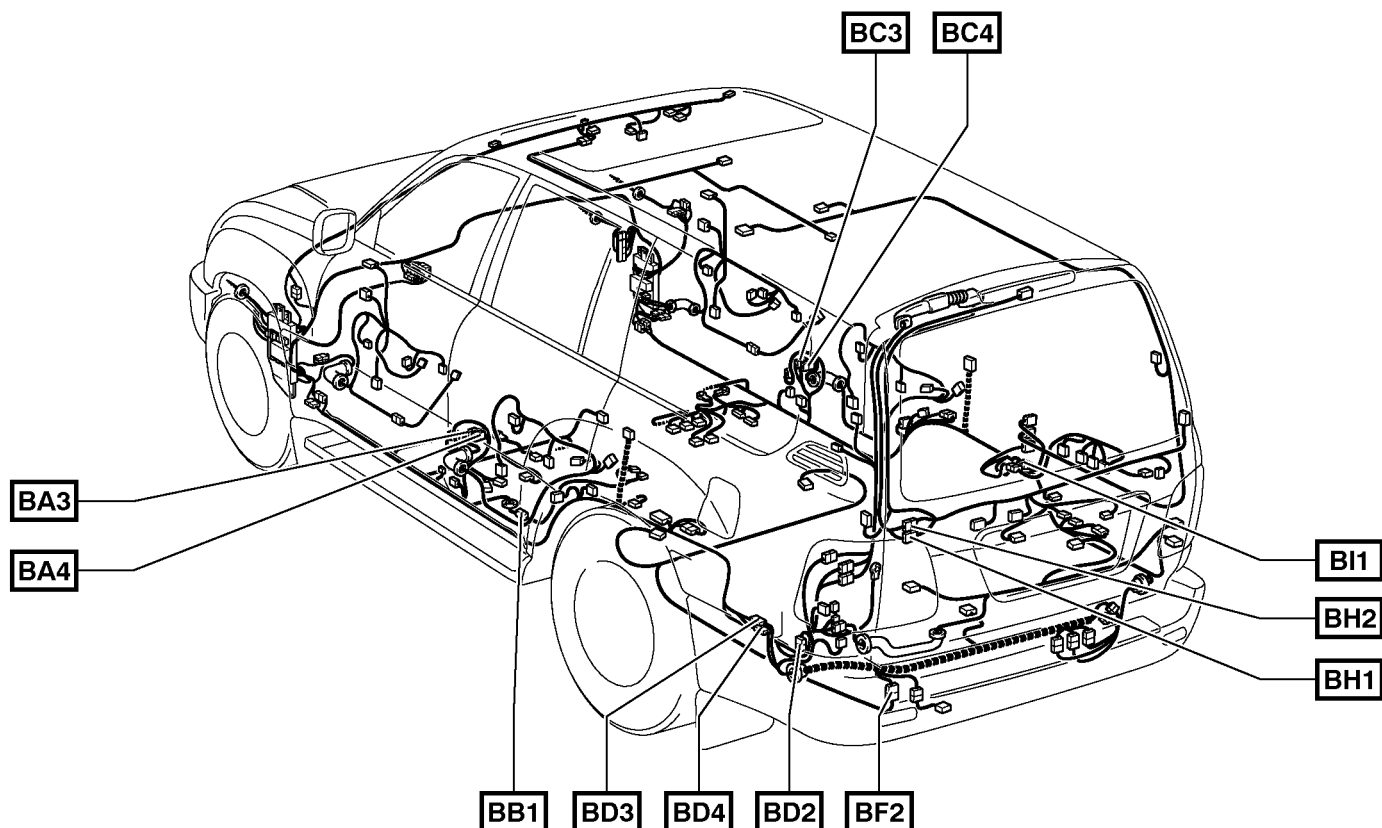
Connector Joining Wire Harness and Wire Harness



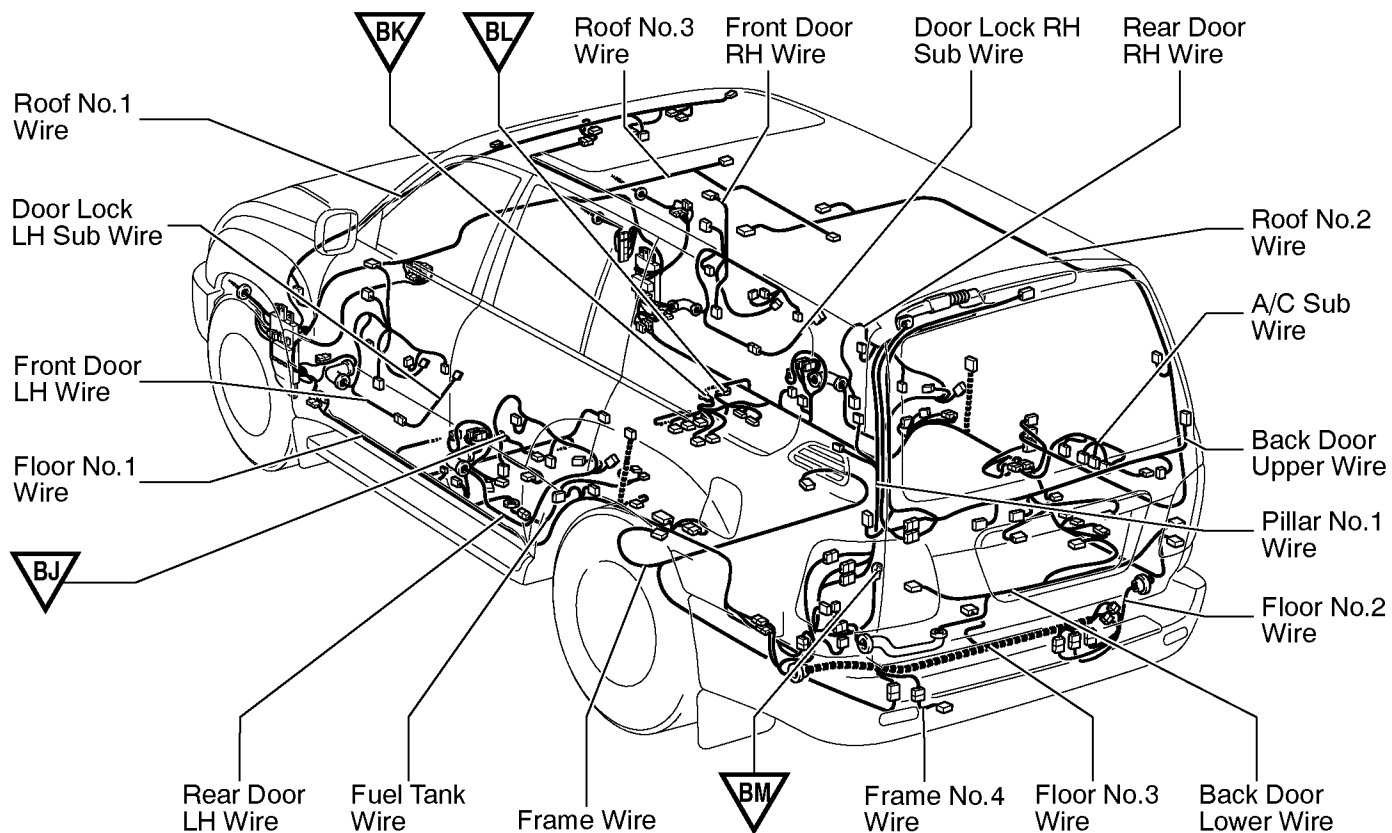
Code	Joining Wire Harness and Wire Harness (Connector Location)
la1	Dash Wire and Dash Wire (Behind the Combination Meter)
lb1	Dash Wire and Dash Wire (Behind the Combination Meter)
lb2	
lb3	
lc2	
ld1	Dash Wire and Dash Wire (Instrument Panel Center)
ld2	
ld3	
ld4	
le1	Dash Wire and Dash Wire (Behind the Glove Box)
lf1	Engine Wire and Engine Wire (Behind the Glove Box)
lg1	Dash Wire and Floor No.2 Wire (Right Side of Front Console)
lh1	Dash Wire and Dash Wire (Center Side of Front Console)

G ELECTRICAL WIRING ROUTING

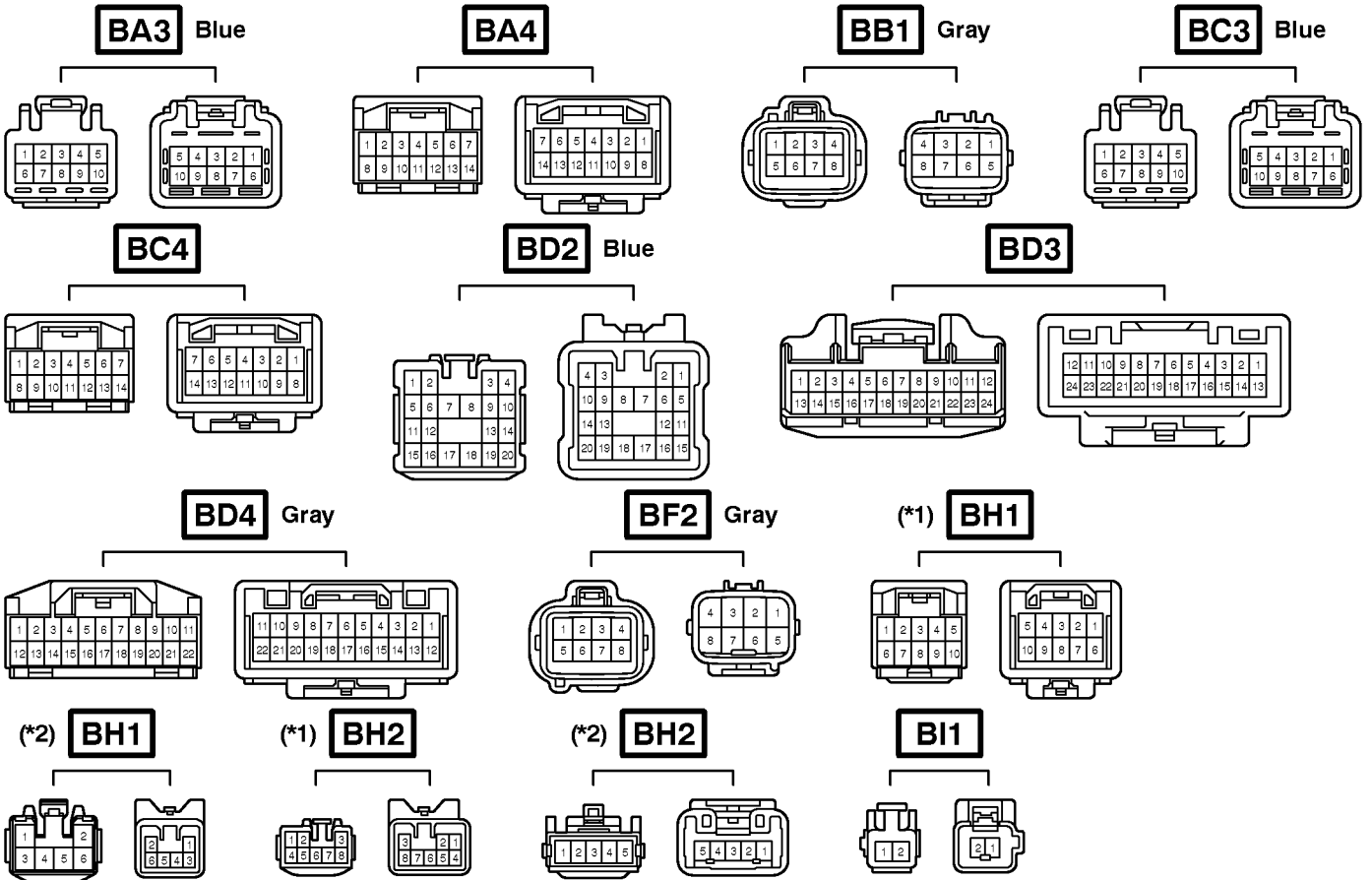
□ : Location of Connector Joining Wire Harness and Wire Harness



▽ : Location of Ground Points



Connector Joining Wire Harness and Wire Harness

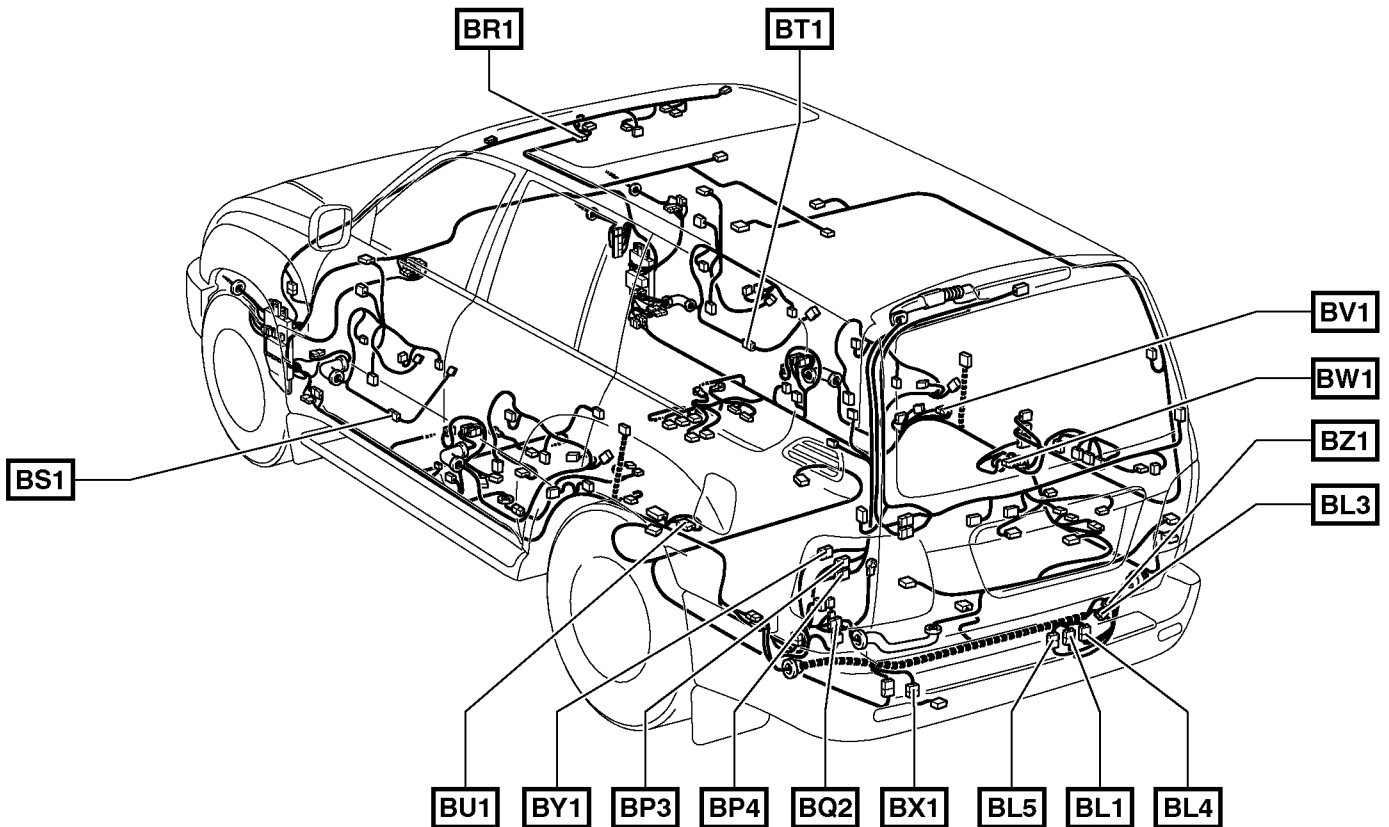


* 1:w/ Navigation System
* 2:w/o Navigation System

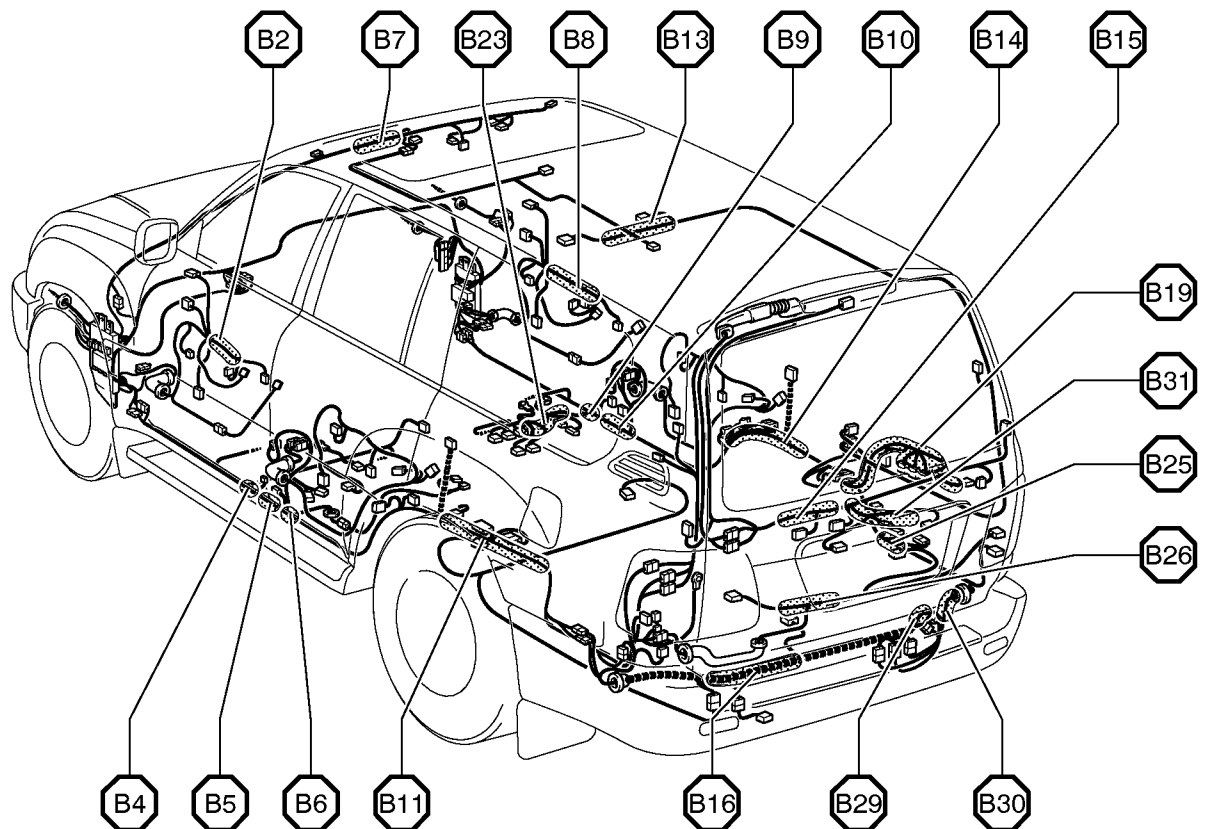
Code	Joining Wire Harness and Wire Harness (Connector Location)
BA3	Rear Door LH Wire and Floor No.1 Wire (Left Side of Center Pillar)
BA4	Rear Door LH Wire and Floor No.1 Wire (Left Side of Center Pillar)
BB1	Floor No.1 Wire and Fuel Tank Wire (Near the Fuel Tank)
BC3	Rear Door RH Wire and Floor No.2 Wire (Right Side of Center Pillar)
BC4	Rear Door RH Wire and Floor No.2 Wire (Right Side of Center Pillar)
BD2	Floor No.3 Wire and Floor No.1 Wire (Left Rear Side Quarter Panel)
BD3	Floor No.3 Wire and Floor No.1 Wire (Left Rear Side Quarter Panel)
BD4	Frame Wire and Floor No.3 Wire (Left Side of Rear Floor Crossmember)
BF2	Frame Wire and Floor No.3 Wire (Left Side of Rear Floor Crossmember)
BH1	Pillar No.1 Wire and Back Door Upper Wire (Left Side of Back Door)
BH2	Pillar No.1 Wire and Back Door Upper Wire (Left Side of Back Door)
BI1	Roof No.2 Wire and Floor No.2 Wire (Right Side Rear Quarter Panel)

G ELECTRICAL WIRING ROUTING

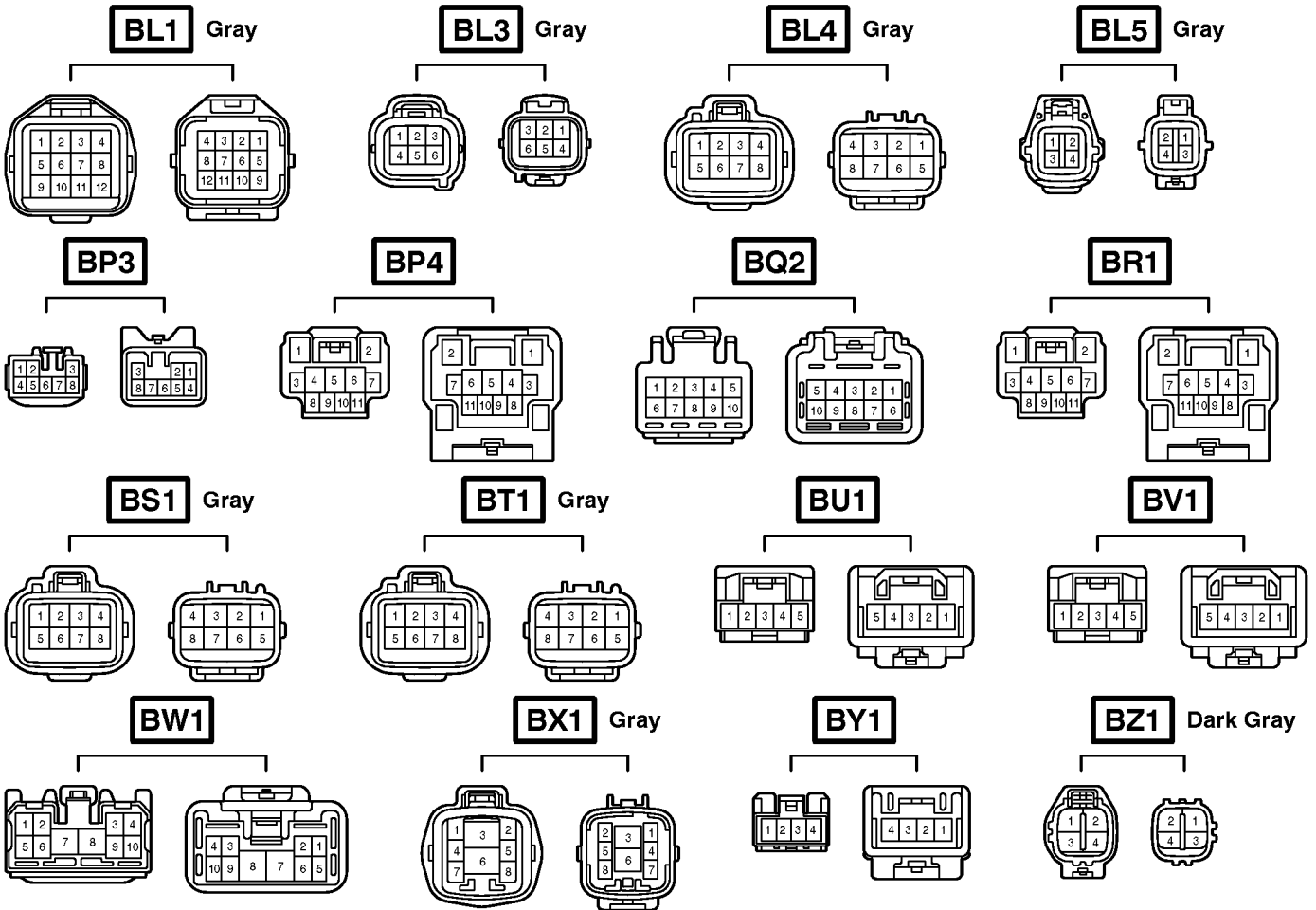
□ : Location of Connector Joining Wire Harness and Wire Harness



○ : Location of Splice Points



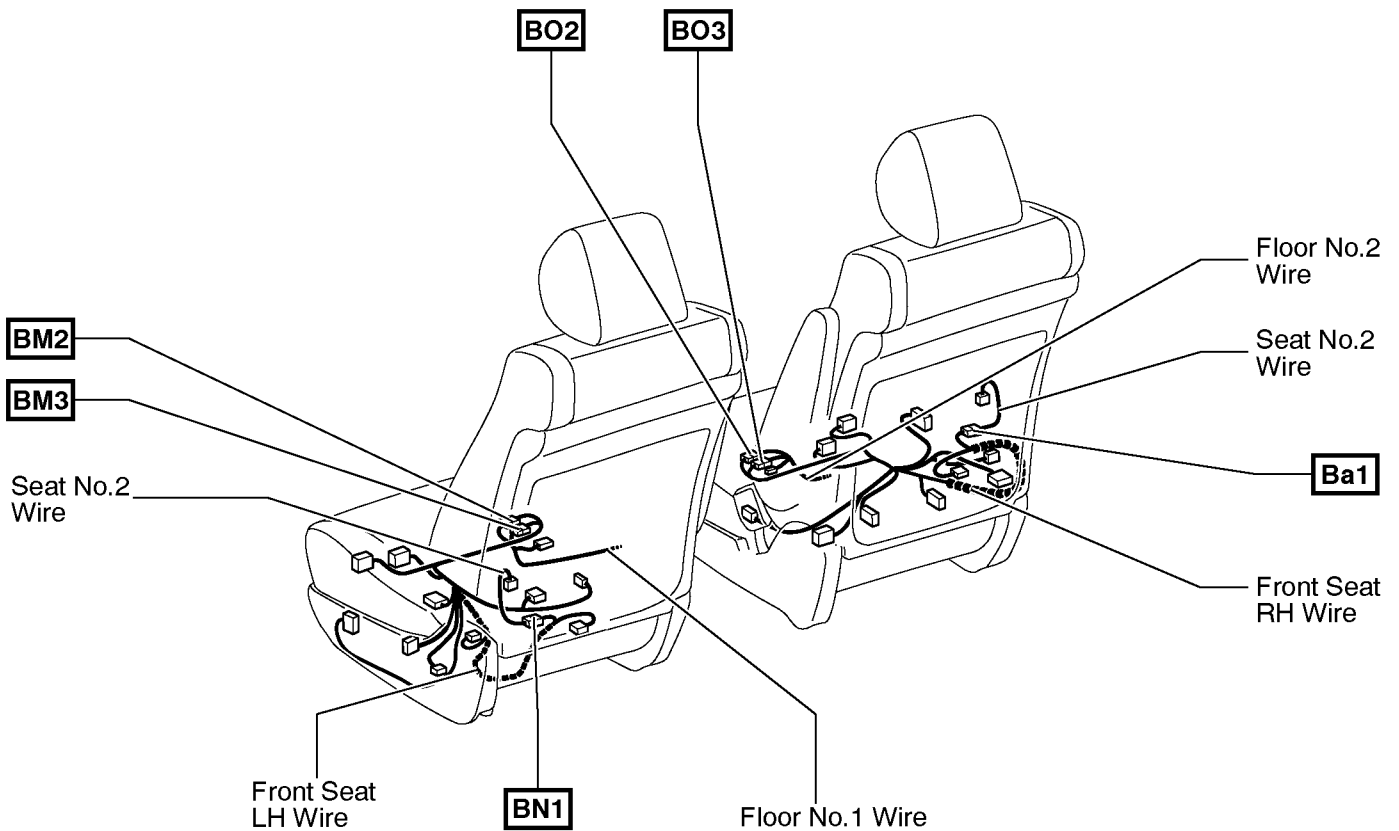
Connector Joining Wire Harness and Wire Harness



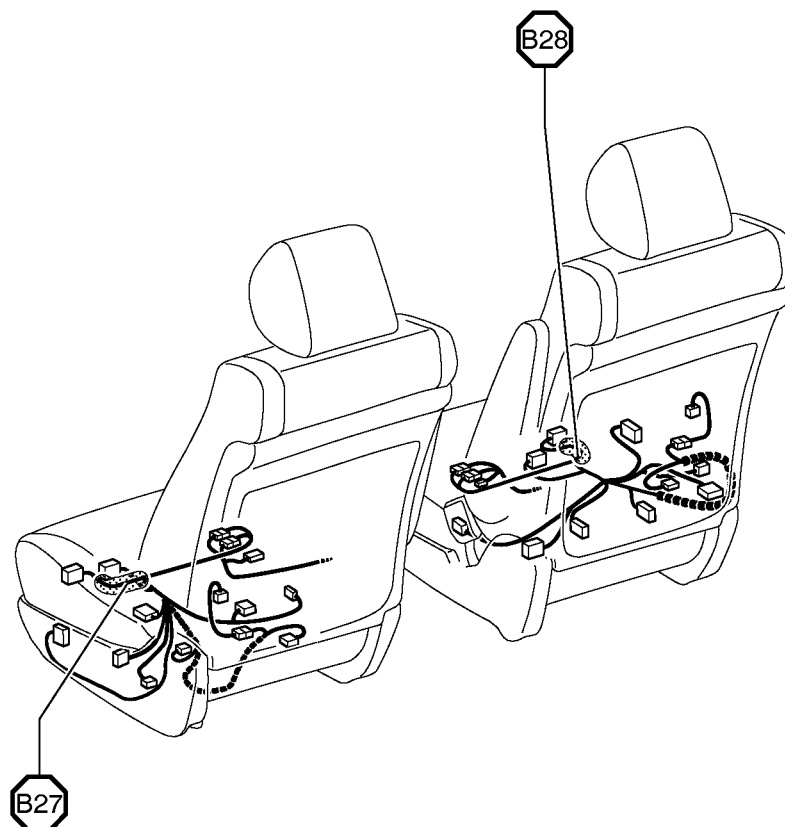
Code	Joining Wire Harness and Wire Harness (Connector Location)
BL1	Floor No.2 Wire and Floor No.3 Wire (Right Side of Rear Floor Crossmember)
BL3	
BL4	
BL5	
BP3	Pillar No.1 Wire and Floor No.1 Wire (Left Rear Side Quarter Panel)
BP4	
BQ2	Back Door Lower Wire and Floor No.1 Wire (Left Rear Side Quarter Panel)
BR1	Roof No.3 Wire and Roof No.1 Wire (Front Side of Roof)
BS1	Door Lock LH Sub Wire and Front Door LH Wire (Front Door LH)
BT1	Door Lock RH Sub Wire and Front Door RH Wire (Front Door RH)
BU1	Floor No.1 Wire and Floor No.1 Wire (Near the Left Rear Suspension Support)
BV1	Floor No.2 Wire and Floor No.2 Wire (Near the Right Rear Suspension Support)
BW1	Floor No.2 Wire and A/C Sub Wire (Right Side Rear Quarter Panel)
BX1	Frame No.4 Wire and Floor No.3 Wire (Left Side of Rear Floor Crossmember)
BY1	Pillar No.1 Wire and Floor No.3 Wire (Left Rear Side Quarter Panel)
BZ1	Floor No.3 Wire and Floor No.2 Wire (Right Side of Rear Floor Crossmember)

G ELECTRICAL WIRING ROUTING

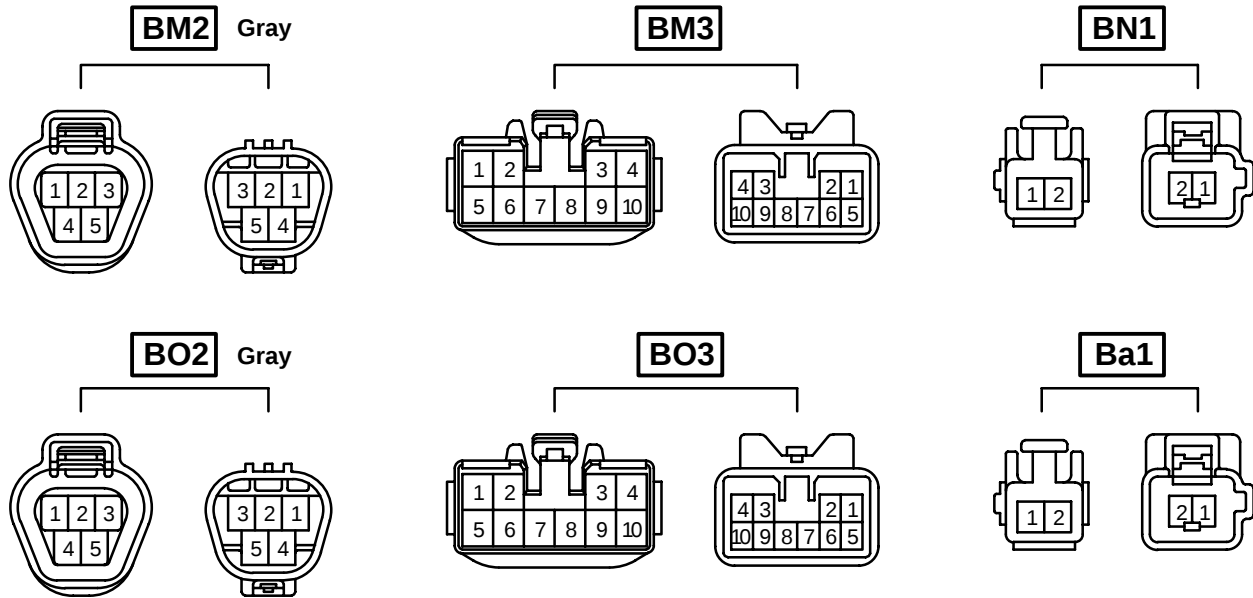
□ : Location of Connector Joining Wire Harness and Wire Harness



○ : Location of Splice Points

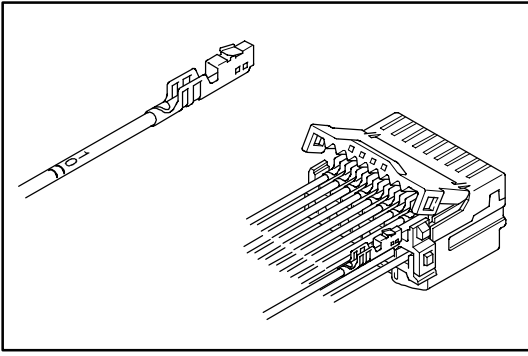


Connector Joining Wire Harness and Wire Harness



Code	Joining Wire Harness and Wire Harness (Connector Location)
BM2	Floor No.1 Wire and Front Seat LH Wire (Front Side Under the Driver's Seat)
BM3	
BN1	Seat No.2 Wire and Front Seat LH Wire (Rear Side Under the Driver's Seat)
BO2	Floor No.2 Wire and Front Seat RH Wire (Front Side Under the Front Passenger's Seat)
BO3	
Ba1	Seat No.2 Wire and Front Seat RH Wire (Rear Side Under the Front Passenger's Seat)

HINT



WIRE COLOR AND TERMINAL NUMBER

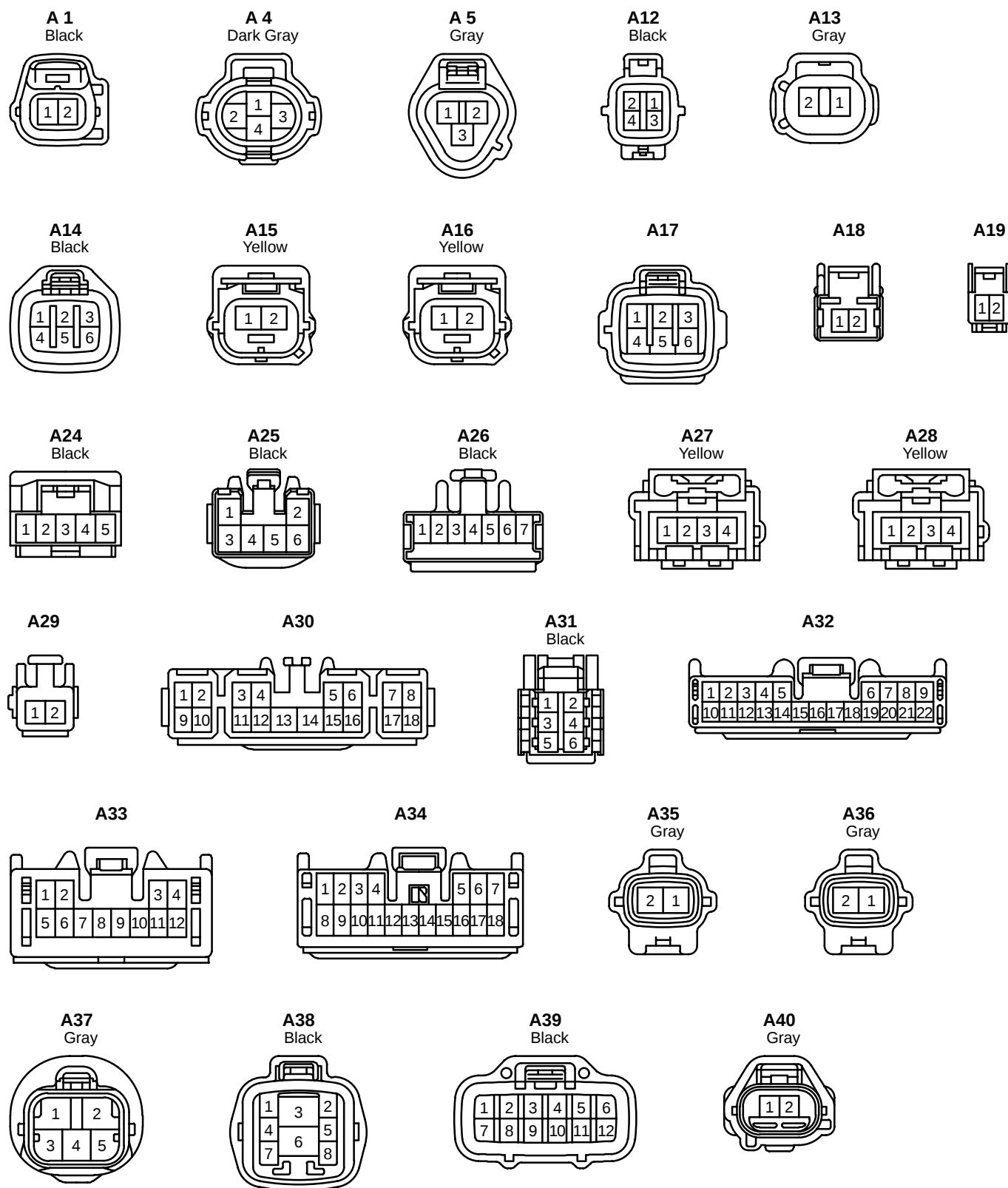
In some parts of the instrumental panel wiring harness, the same wire color (i.e. SB: Sky Blue) is used for all the wiring to a specific connector.

In order to identify the wiring, the terminal number is printed on the wiring.

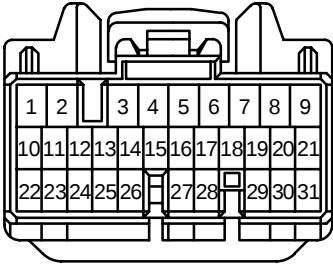
Install the wiring to the connector position with the same terminal number.

Some early production Vehicles may not have these terminal numbers printed.

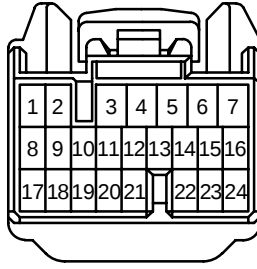
K CONNECTOR LIST



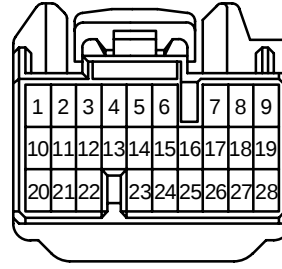
A41



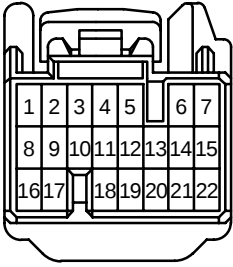
A42



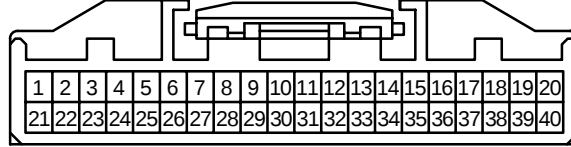
A43



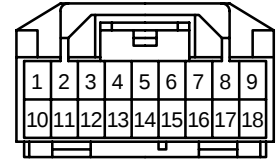
A44



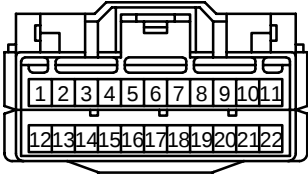
A45



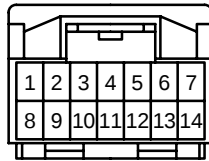
A46



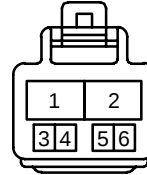
A47



A48



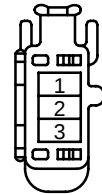
B 1
Black



B 2



B 3



B 4
Black



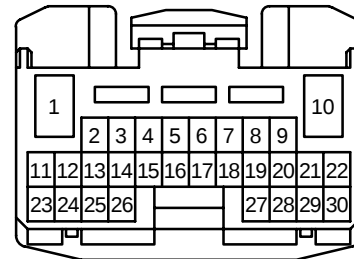
B 5



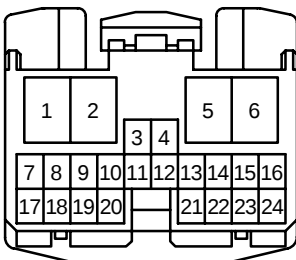
B 6
Gray



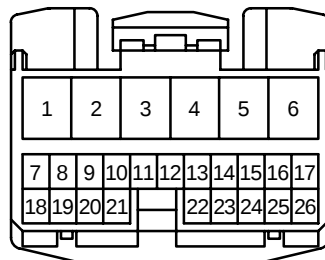
B 7



B 8



B 9



C 1
Dark Gray



C 2
Black



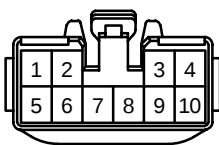
K CONNECTOR LIST

*1 : w/o Side Airbag

C 3
Dark Gray



C 5



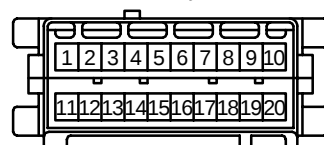
C10
Gray



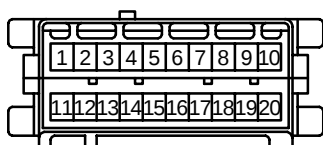
C11
Gray



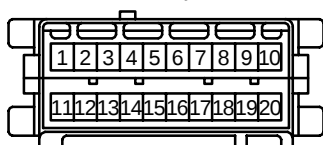
C12
Gray



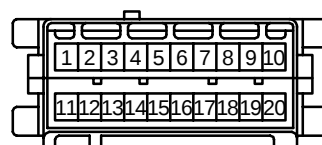
C13



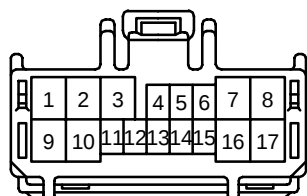
C14
Gray



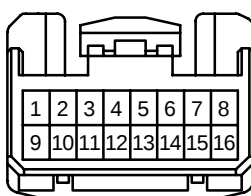
C15



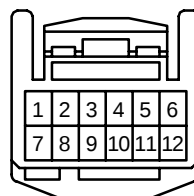
C16



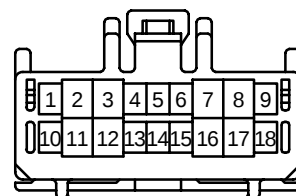
C17



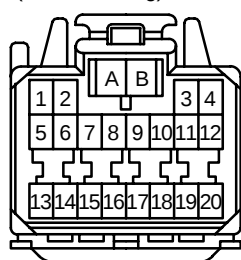
C18
Black



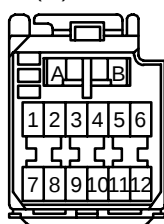
C19
Black



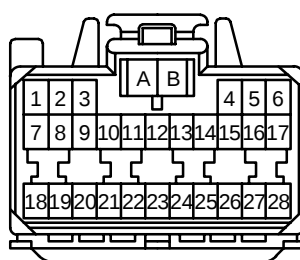
C25
(w/ Side Airbag) Yellow



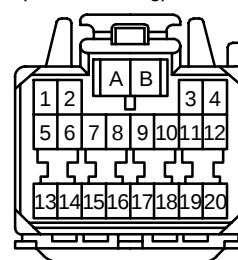
C25
(*1) Yellow



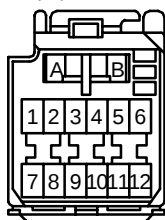
C26
Yellow



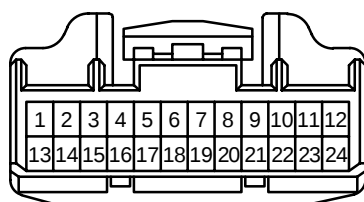
C27
(w/ Side Airbag) Yellow



C27
(*1) Yellow



C28



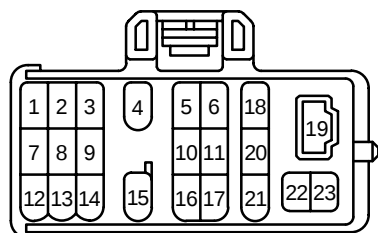
C29
Yellow



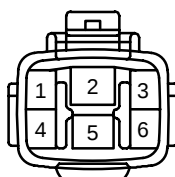
C30
Yellow



D 1
Black



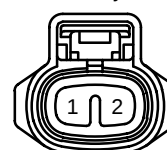
D 2
Black

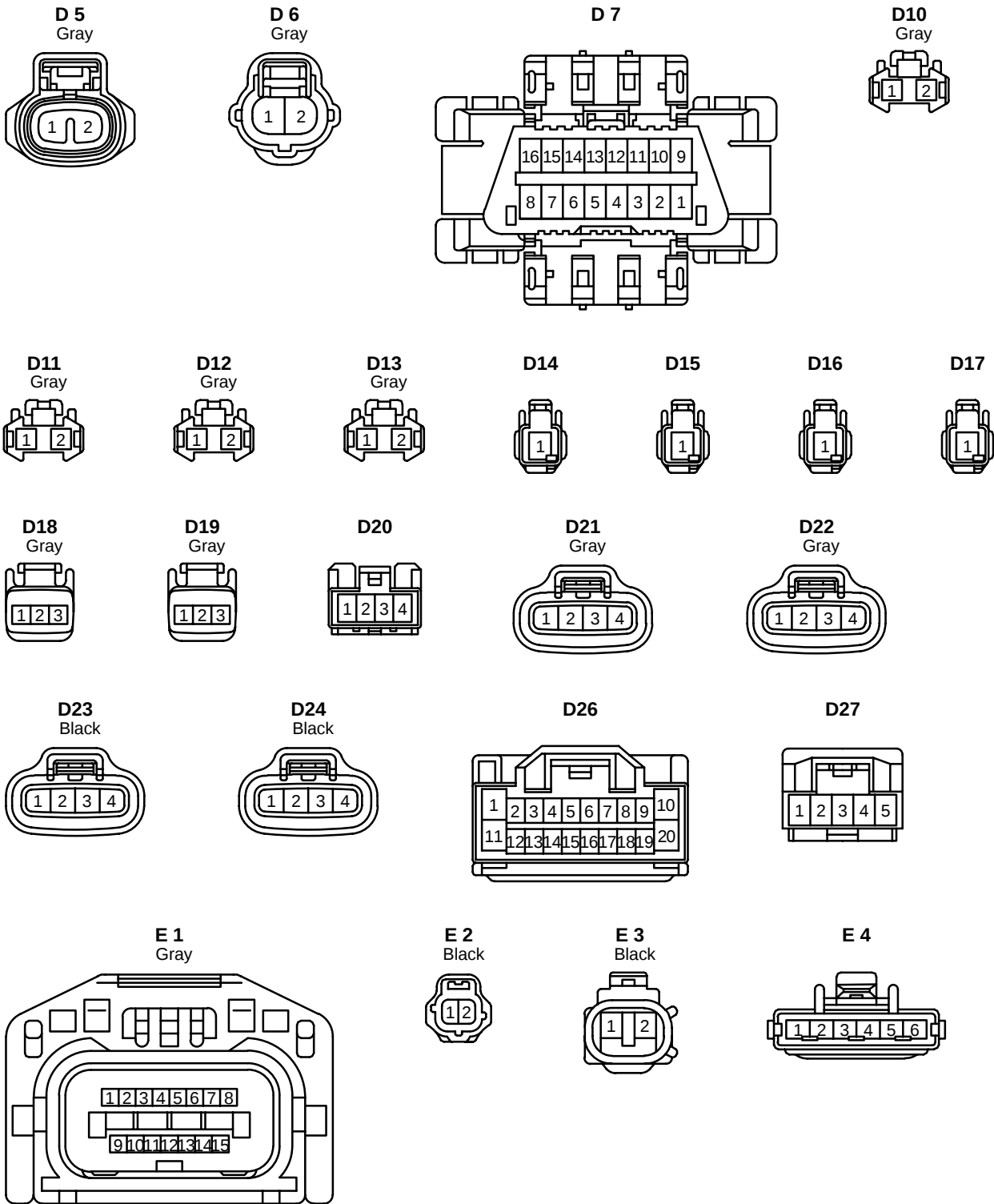


D 3
Black



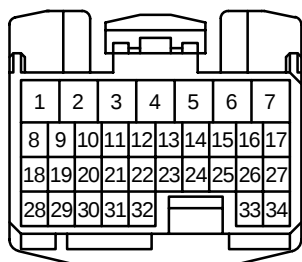
D 4
Gray



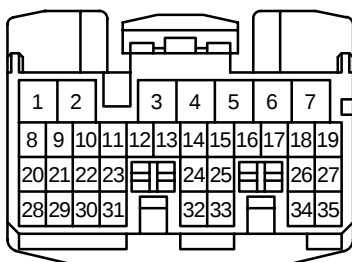


K CONNECTOR LIST

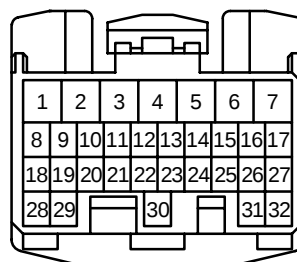
E 5



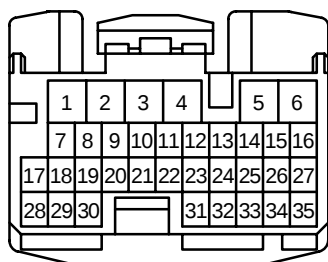
E 6



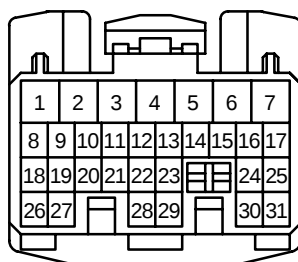
E 7



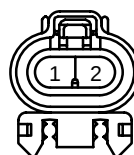
E 8



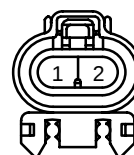
E 9



F 1
Brown



F 2
Brown



F 3
Gray



F 4
Gray



F 5
Black



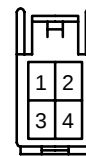
F 8



F 9



F 10



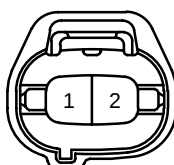
F 11



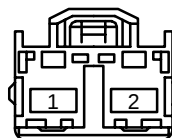
F 12
Dark Gray



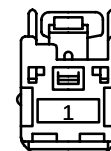
F 14
Dark Gray



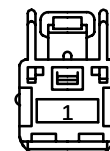
F 15
Black



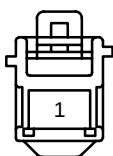
F 16
Black



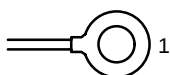
F 17
Black



F 18
Black



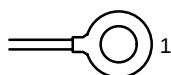
F 19



G 1
Black



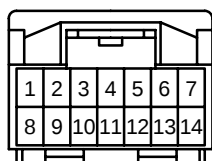
G 2



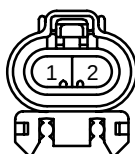
G 3



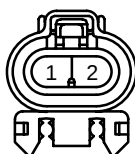
G 4
Gray



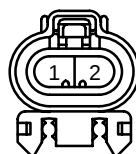
H 1
Black



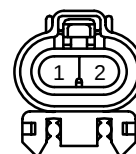
H 2
Brown

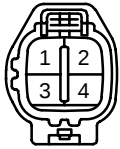
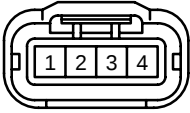
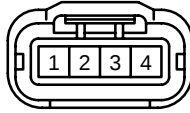
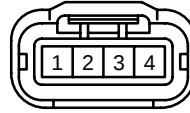
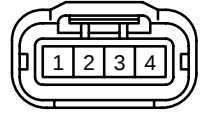
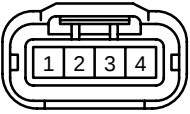
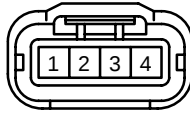
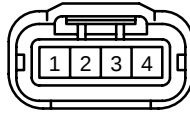
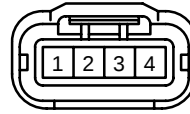
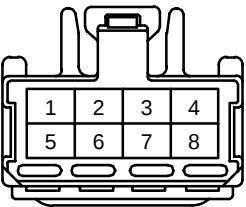
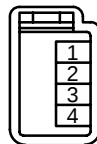
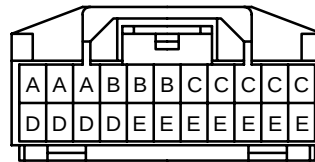
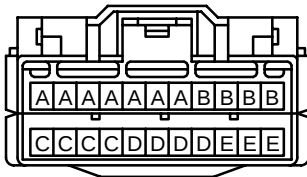
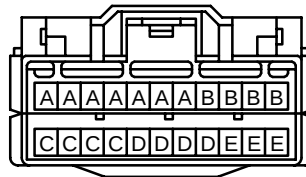
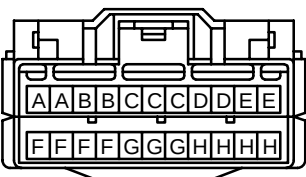
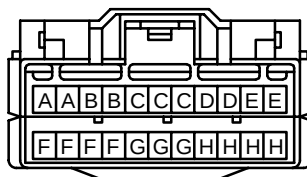


H 3
Black



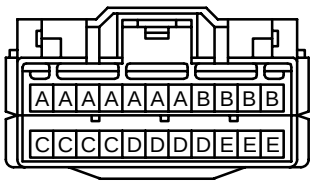
H 4
Brown



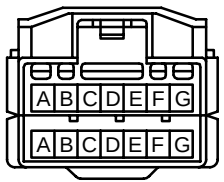
H 5
Dark Gray**H 6**
Dark Gray**H 7**
Dark Gray**H 8**
Dark Gray**H 9**
Black**H10**
Black**H11****I 1**
Black**I 2**
Black**I 3**
Black**I 4**
Black**I 5**
Black**I 6**
Black**I 7**
Black**I 8**
Black**I 9**
Blue**I10**
Blue**I11**
Blue**I12**
Blue**I13**
Blue**I14**
Blue**I15**
Blue**I16**
Blue**I18****I22**
Orange**J 1**
Black**J 2****J 3**
Black**J 4**
Black**J 6**
Gray**J 7****J 8****J 9****J10****J11**

K CONNECTOR LIST

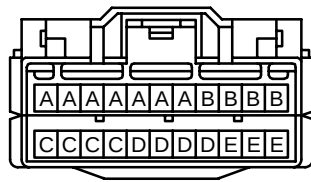
J12
Gray



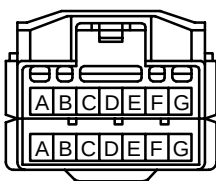
J13
Blue



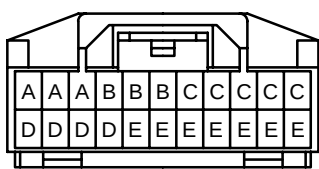
J14



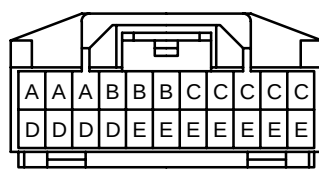
J15



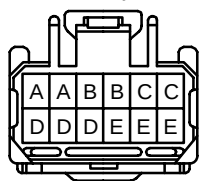
J16



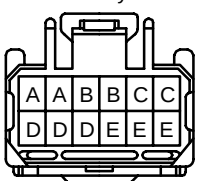
J17



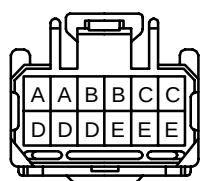
J18
Gray



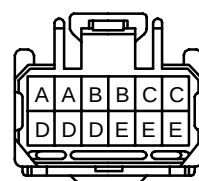
J19
Gray



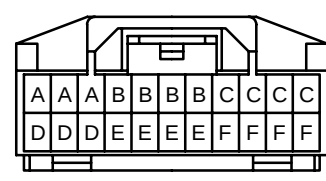
J20



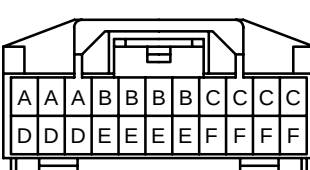
J21



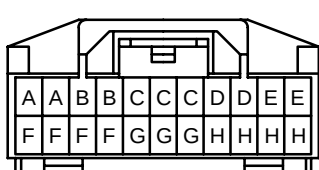
J22



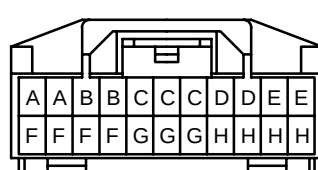
J23



J25



J26



K 1
Dark Gray



K 2



K 3
Black



L 1



L 2



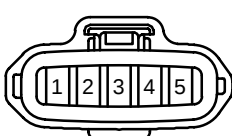
L 3



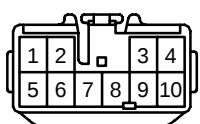
L 4



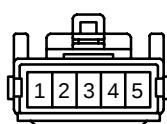
M 1
Black



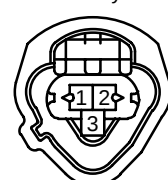
M 2



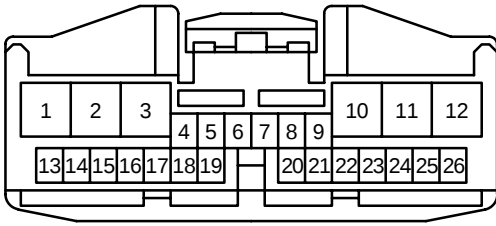
M 3



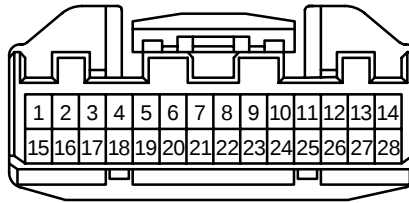
M 4
Gray



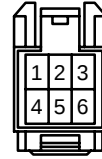
M 5



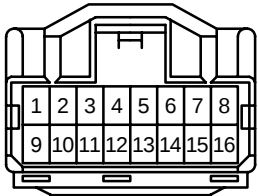
M 6



M 7



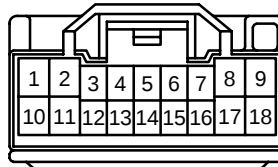
M 9



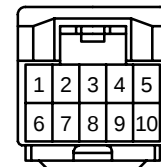
N 1
Gray



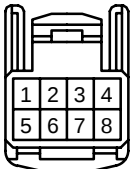
N 2



N 3



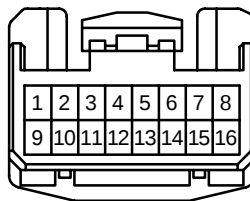
N 4
Black



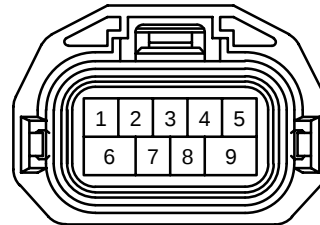
O 2
Black



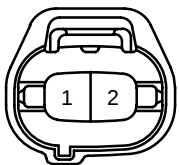
O 5



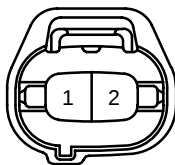
P 1
Gray



P 2
Gray



P 3
Gray



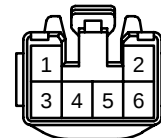
P 4



P 5



P 6
Black



P 7
Black



P 8



P 9



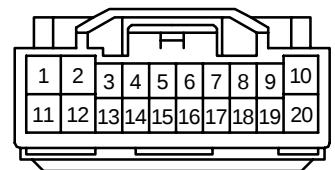
P 10



P 11



P 12



P 14



P 15



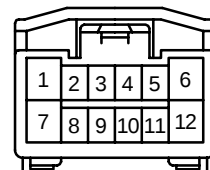
P 16



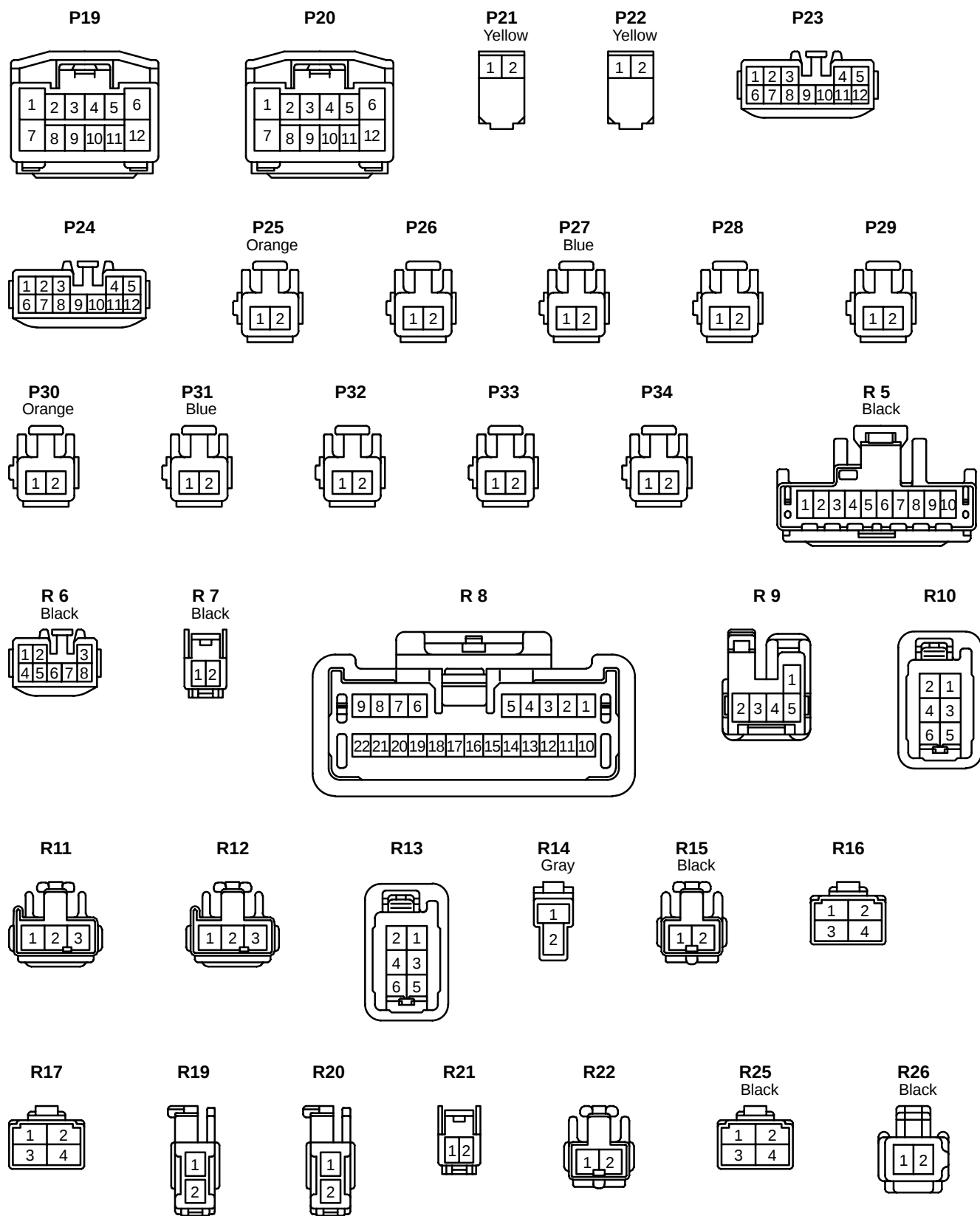
P 17



P 18



K CONNECTOR LIST



R27



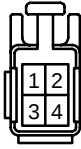
R28



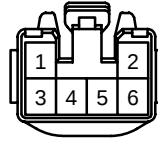
R29



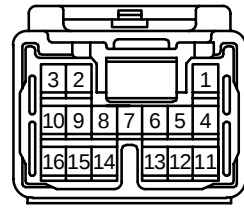
R30



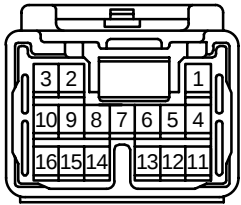
R31



R32



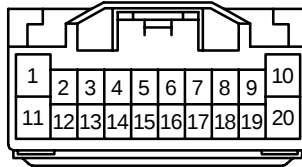
R33



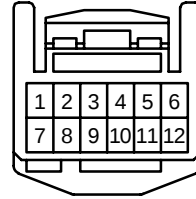
R34
Black



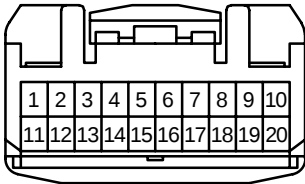
R36



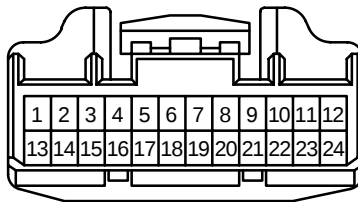
R37



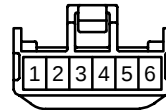
R38



R39



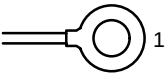
R40
Black



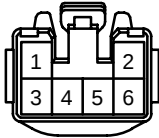
S 1
Black



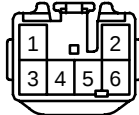
S 2



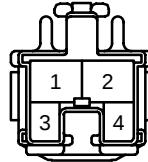
S 3
Black



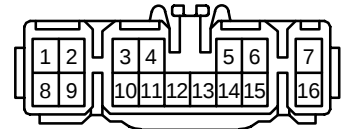
S 4
Brown



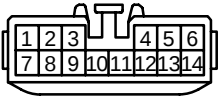
S 5
Blue



S 6
Gray



S 7
Gray



S 8



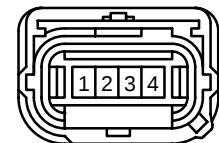
S 9



S10



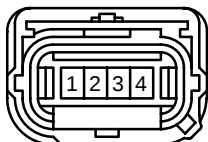
S11
Yellow



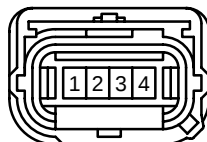
S12
Yellow



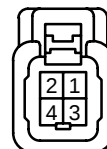
S13
Yellow



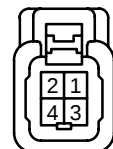
S14
Yellow



S15

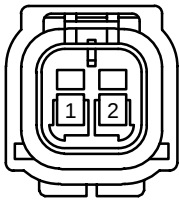


S16



K CONNECTOR LIST

S17
Black



S18
Yellow



S19
Yellow



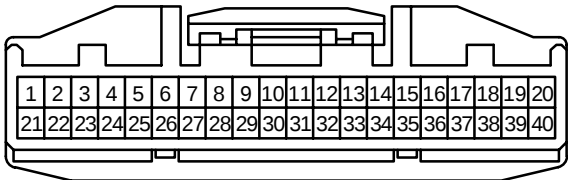
T 1
Black



T 4



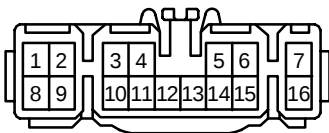
T 5



T 7



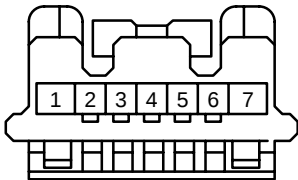
T 8



T 9
Black



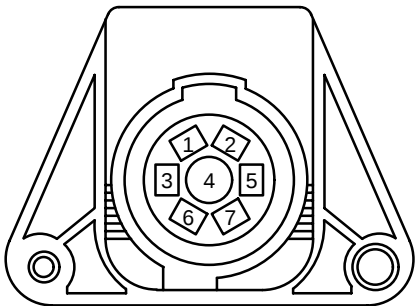
T10
Black



T11
Black



T12
Black



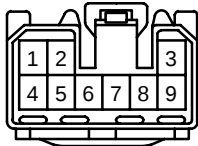
T13



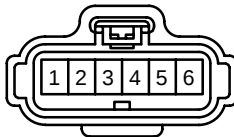
T14



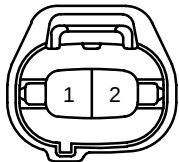
T15
Orange



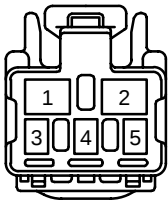
T16
Black



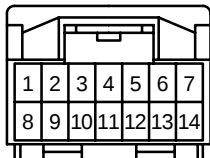
T17
Black



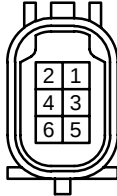
T18



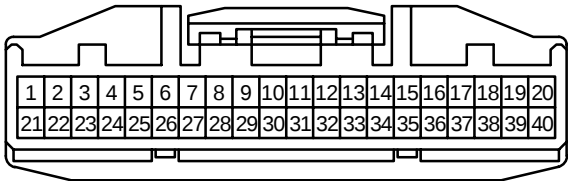
T19



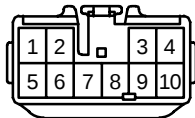
T20



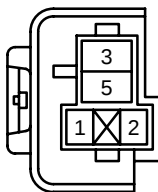
T21



T22



T23



U 1



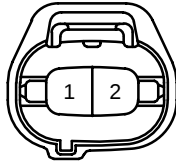
V 1
Black



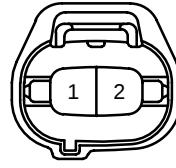
V 2
Black



V 3
Black



V 4
Black



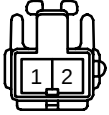
V 6



V 7



V 8
Black



V 9
Gray



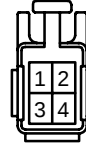
V10
Blue



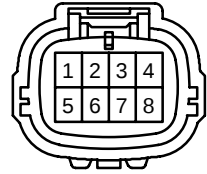
W 1
Gray



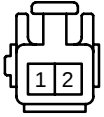
W 4



Y 1
Black



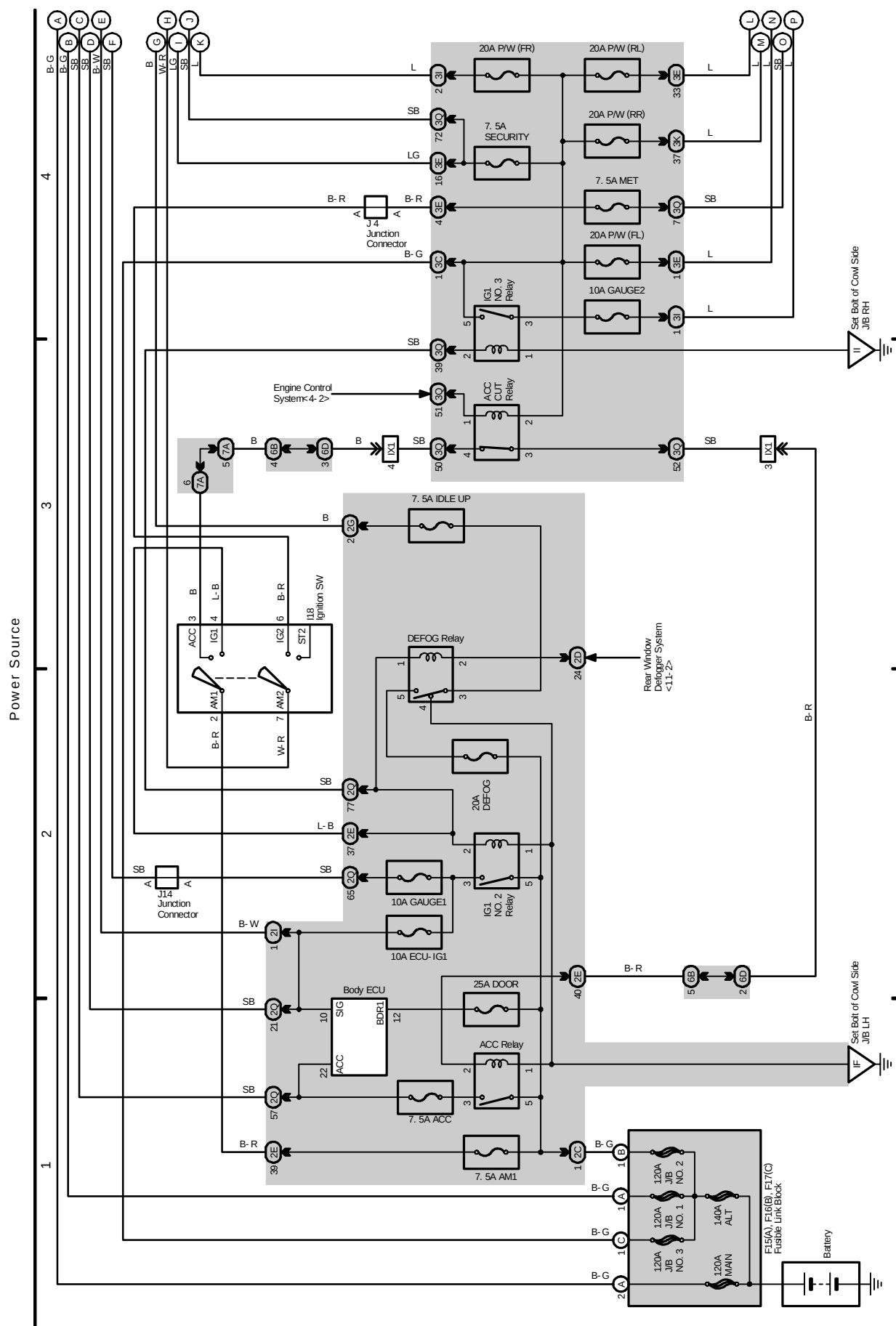
Z 1

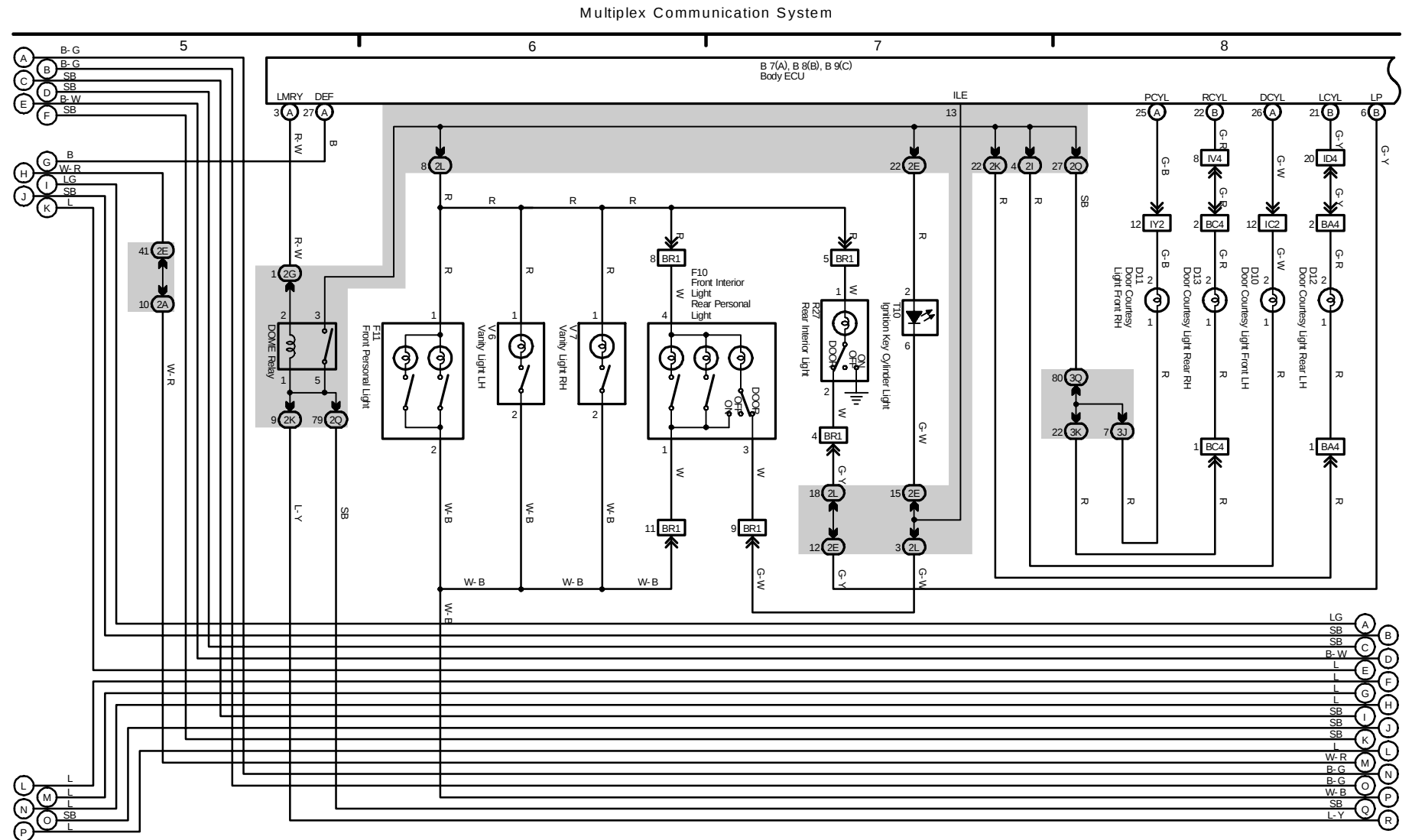


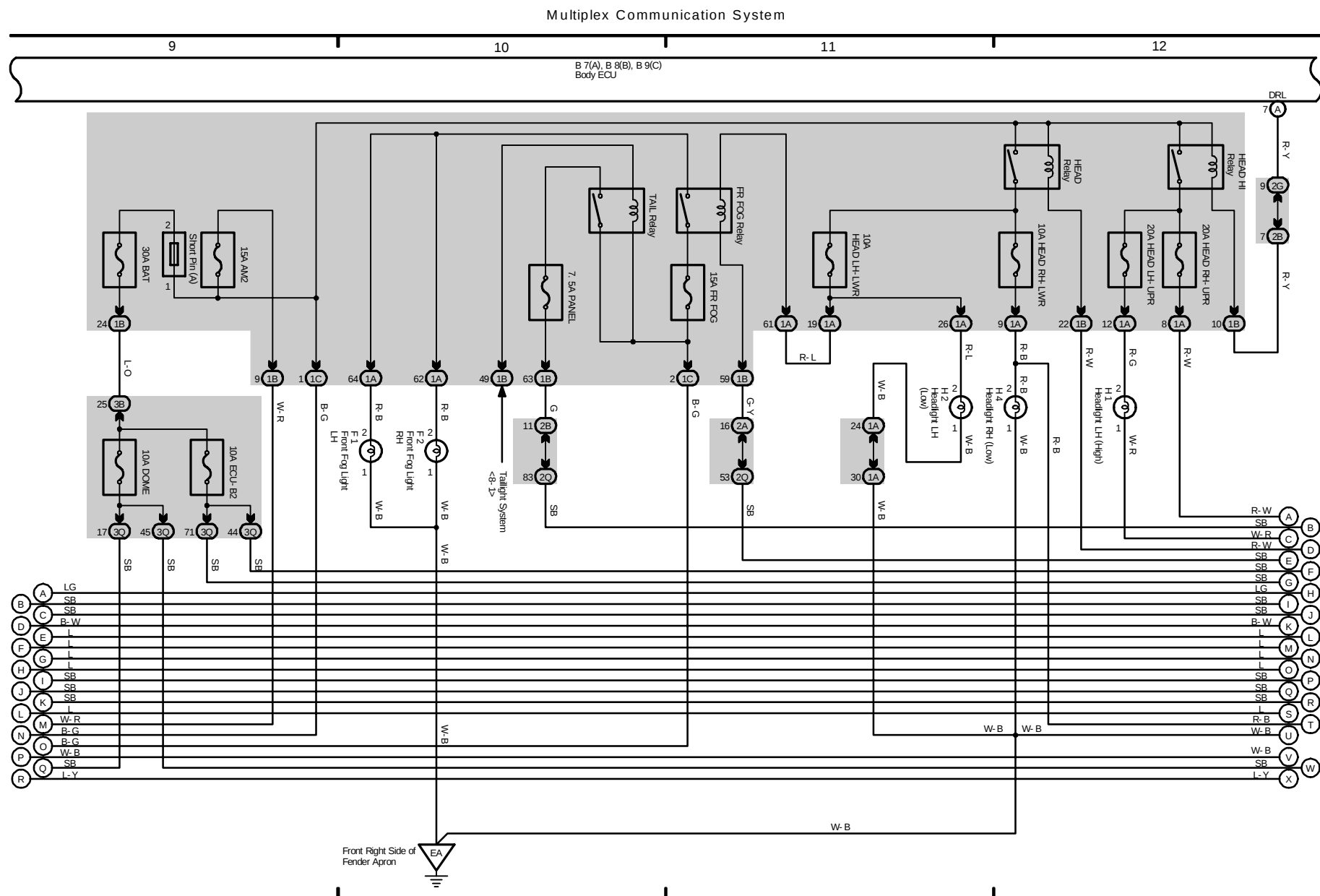
M OVERALL ELECTRICAL WIRING DIAGRAM

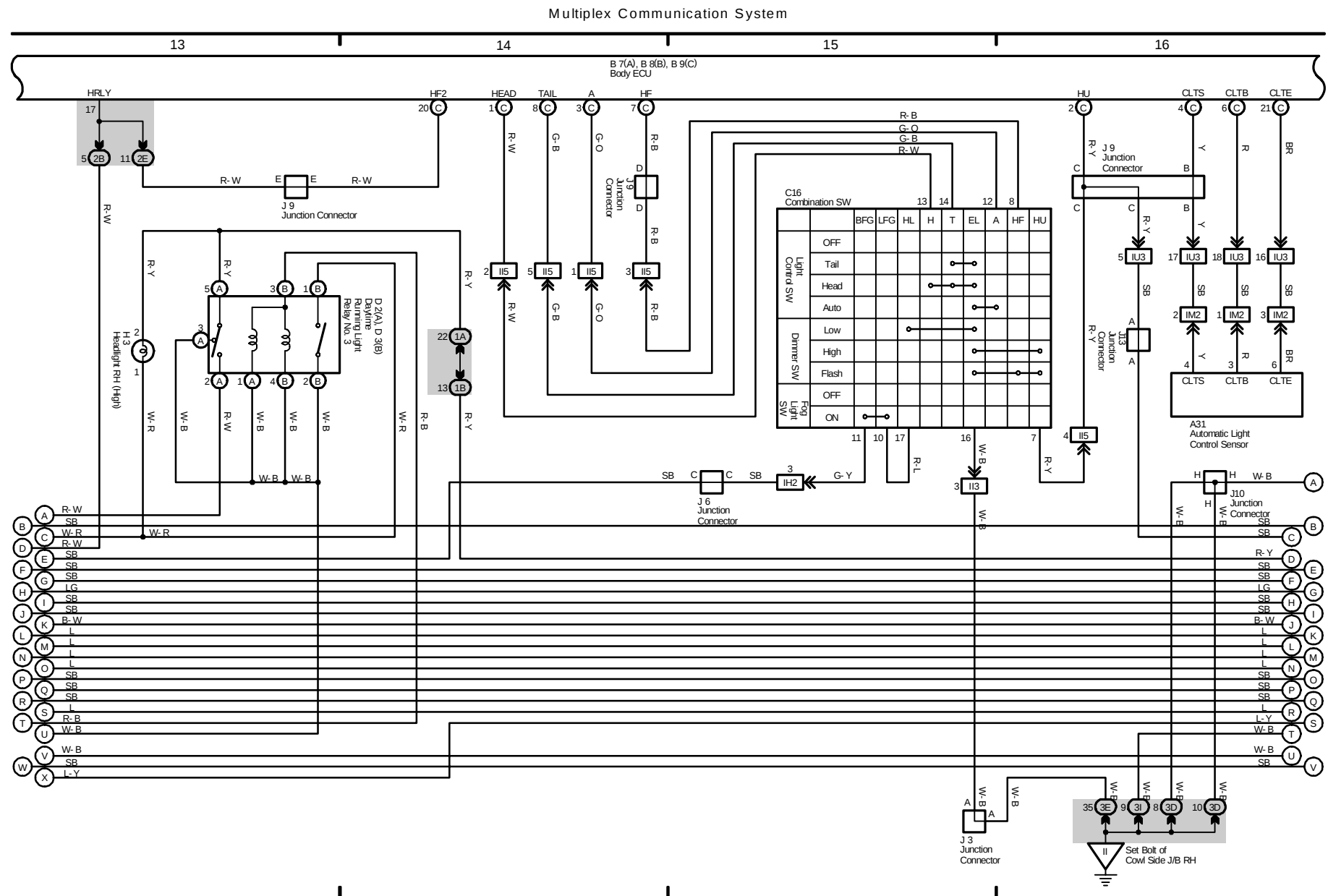
(Cont. next page)

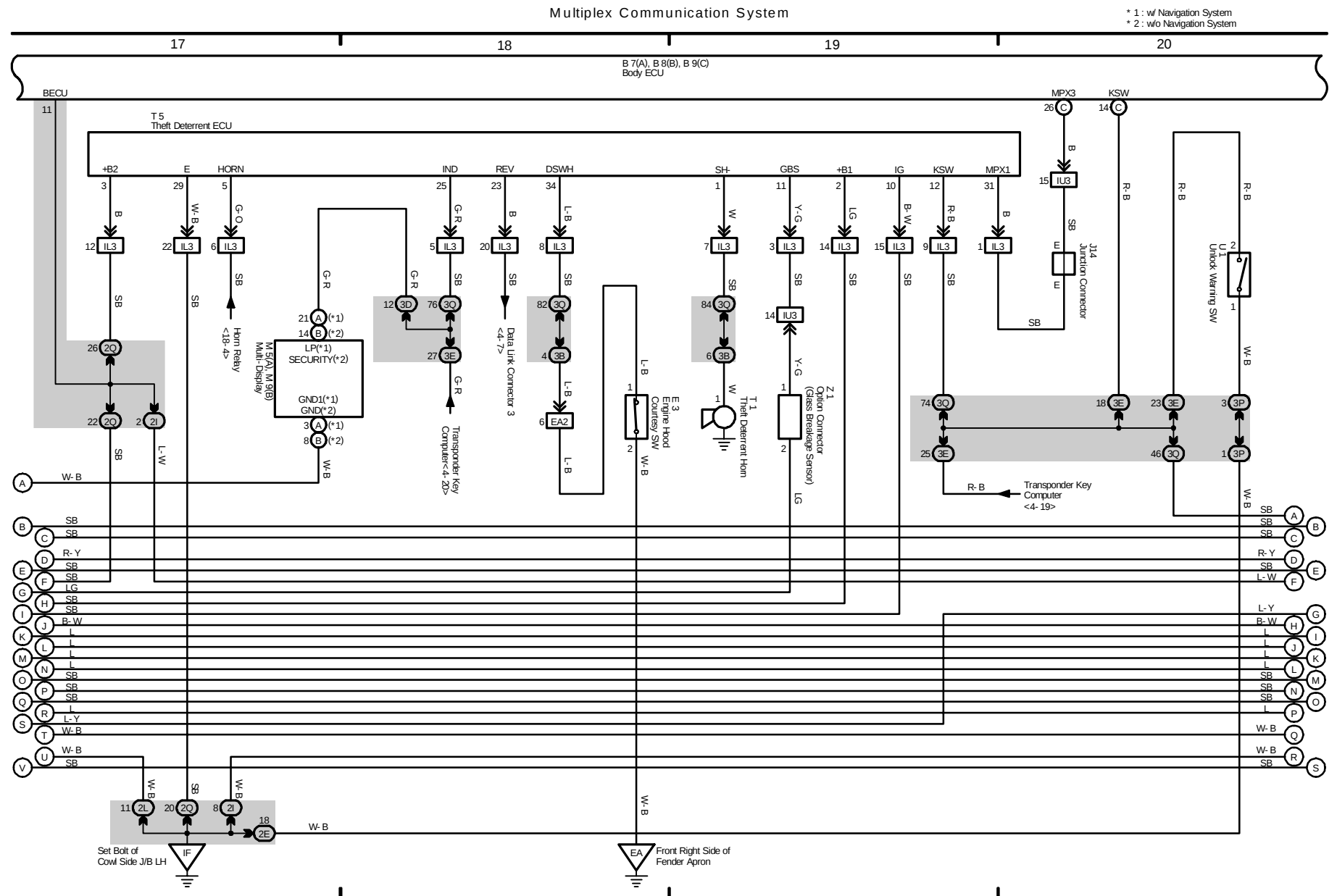
1 LAND CRUISER

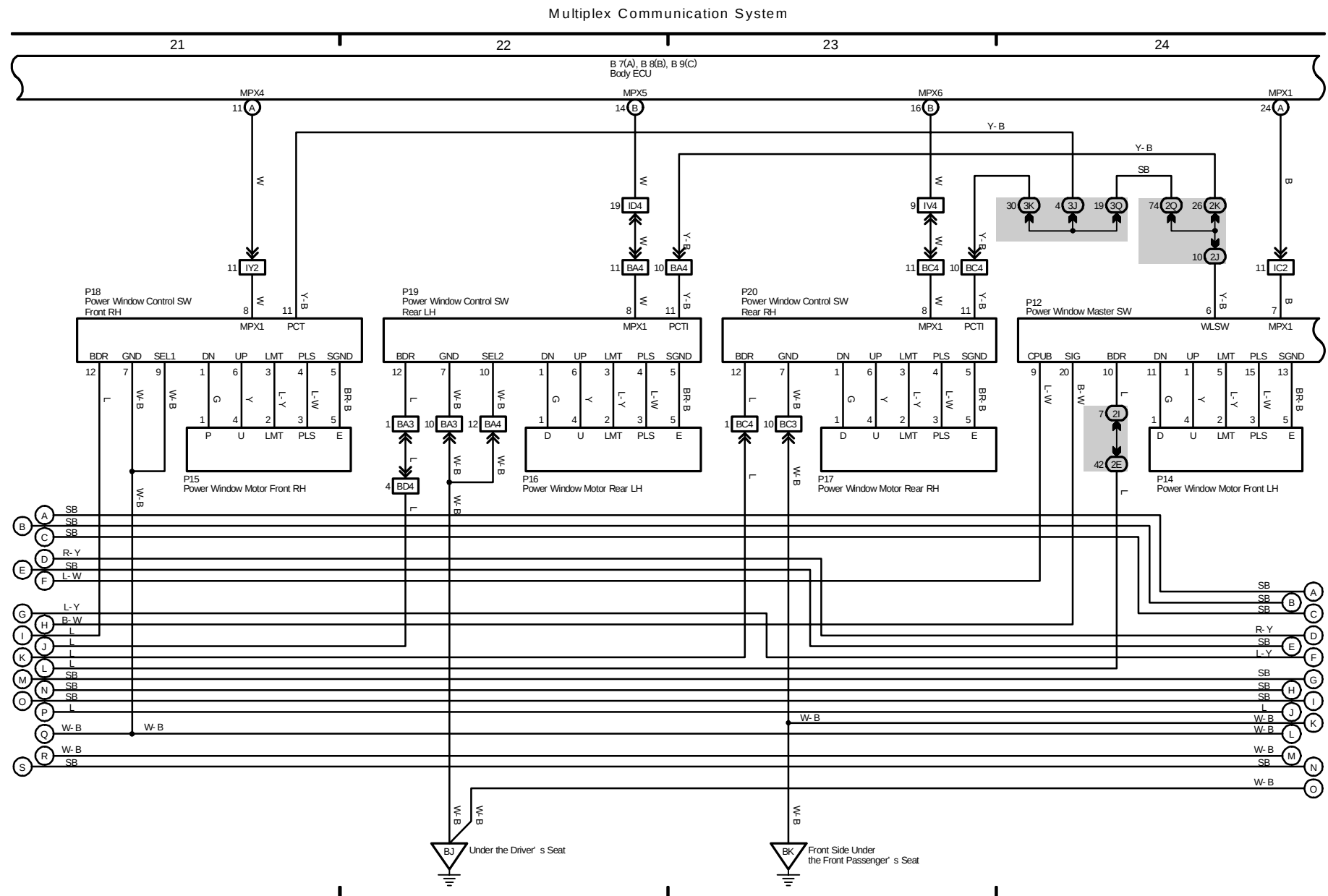


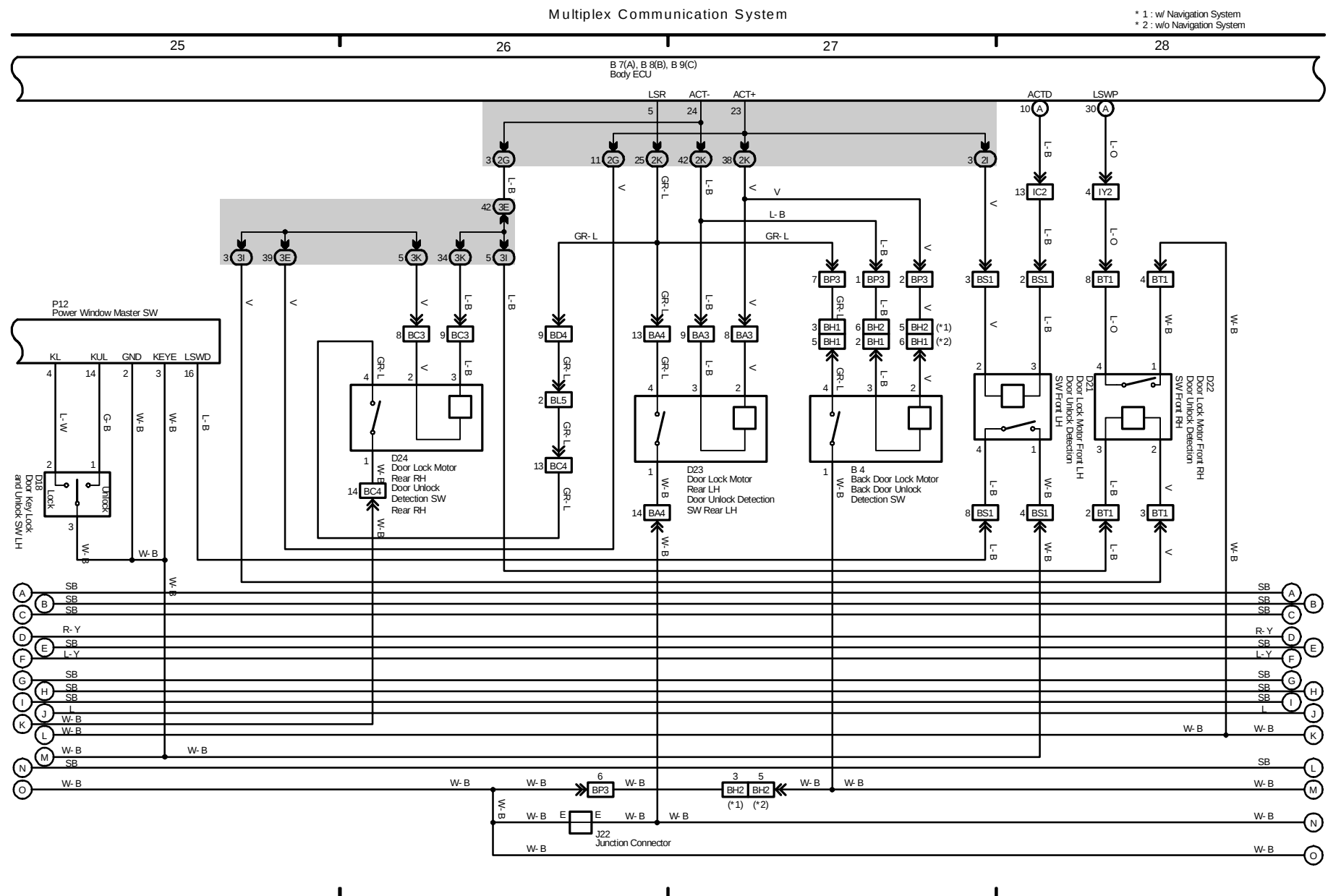


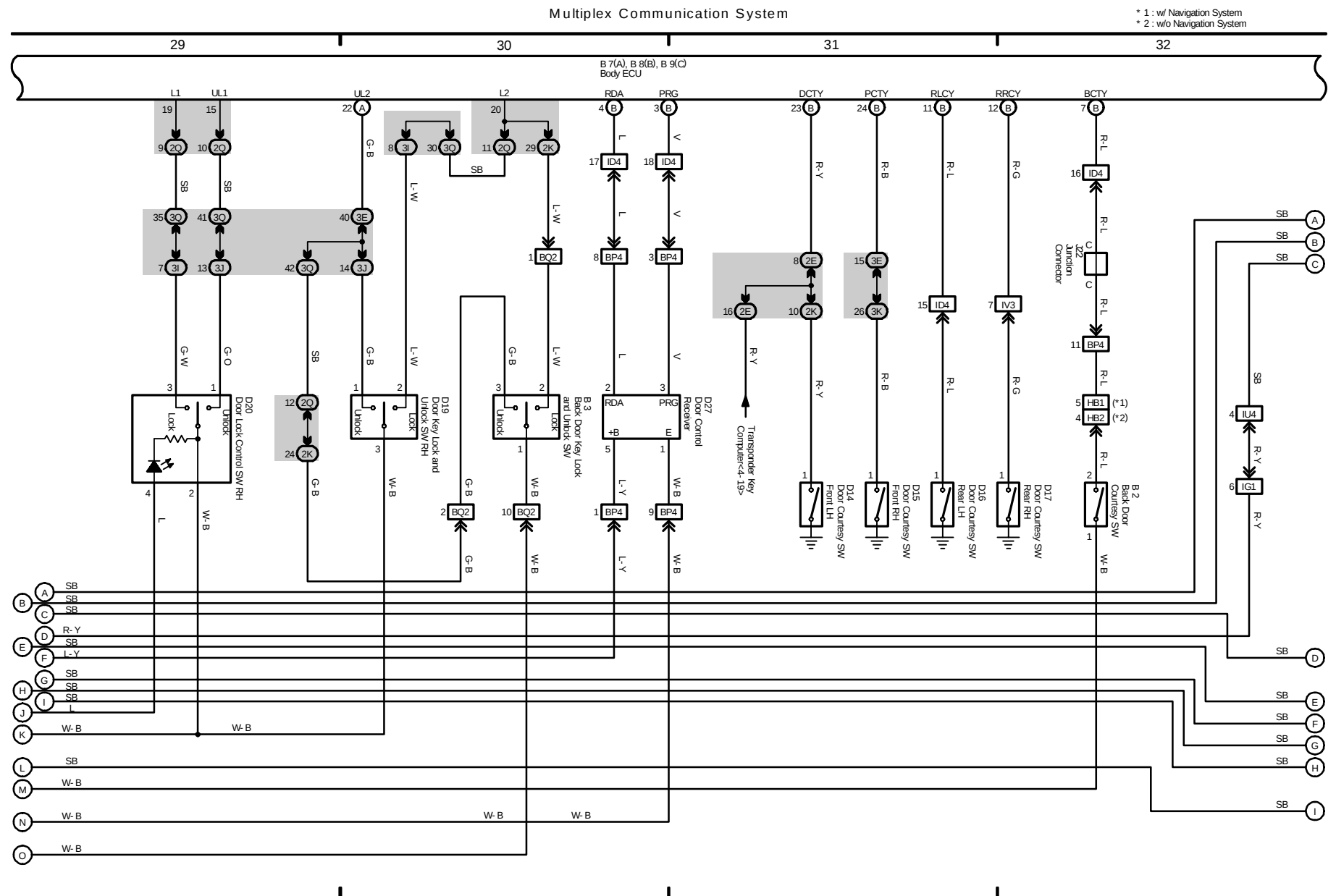






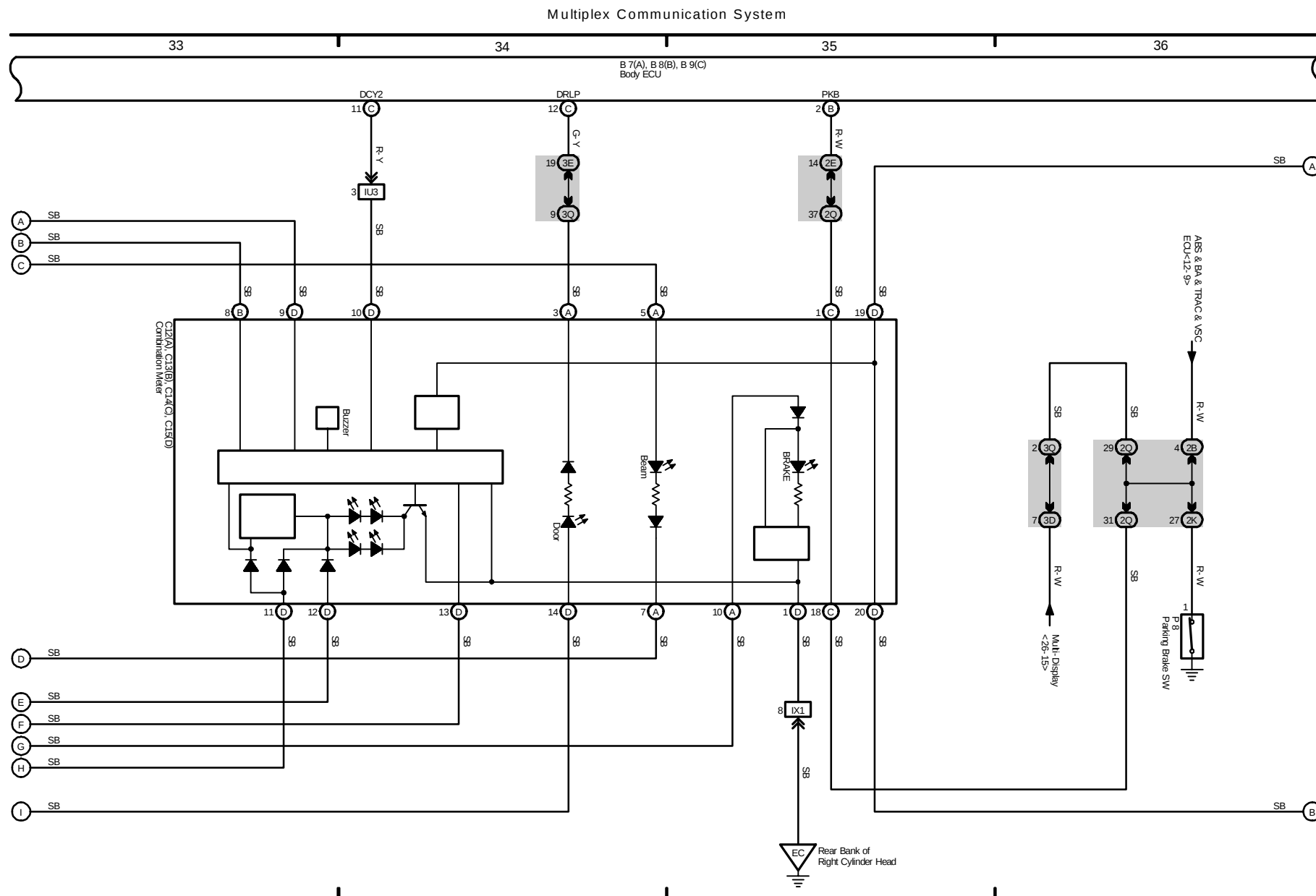






(Cont. next page)

1 LAND CRUISER (Cont' d)

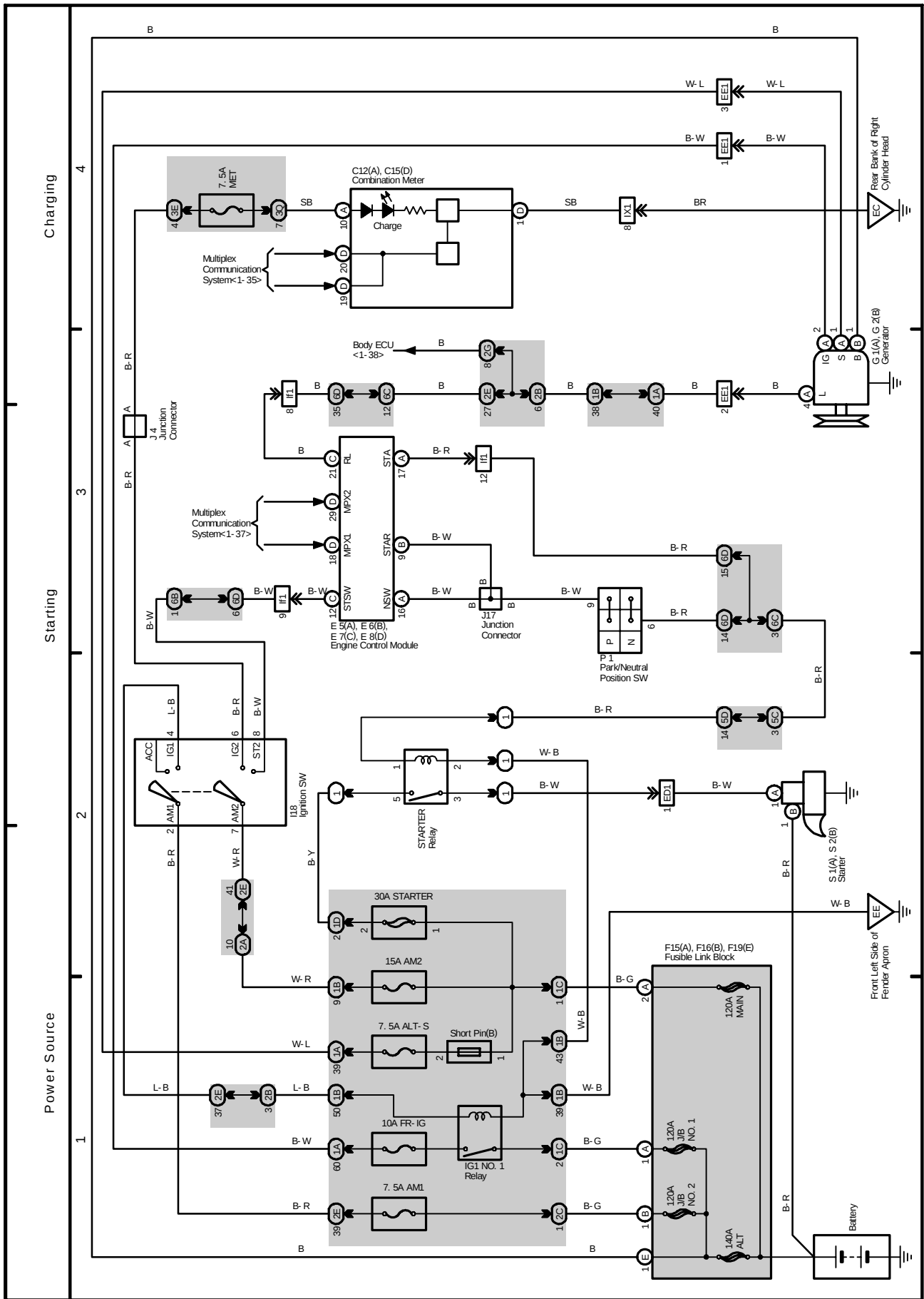


2005 LAND CRUISER (EWD601U)

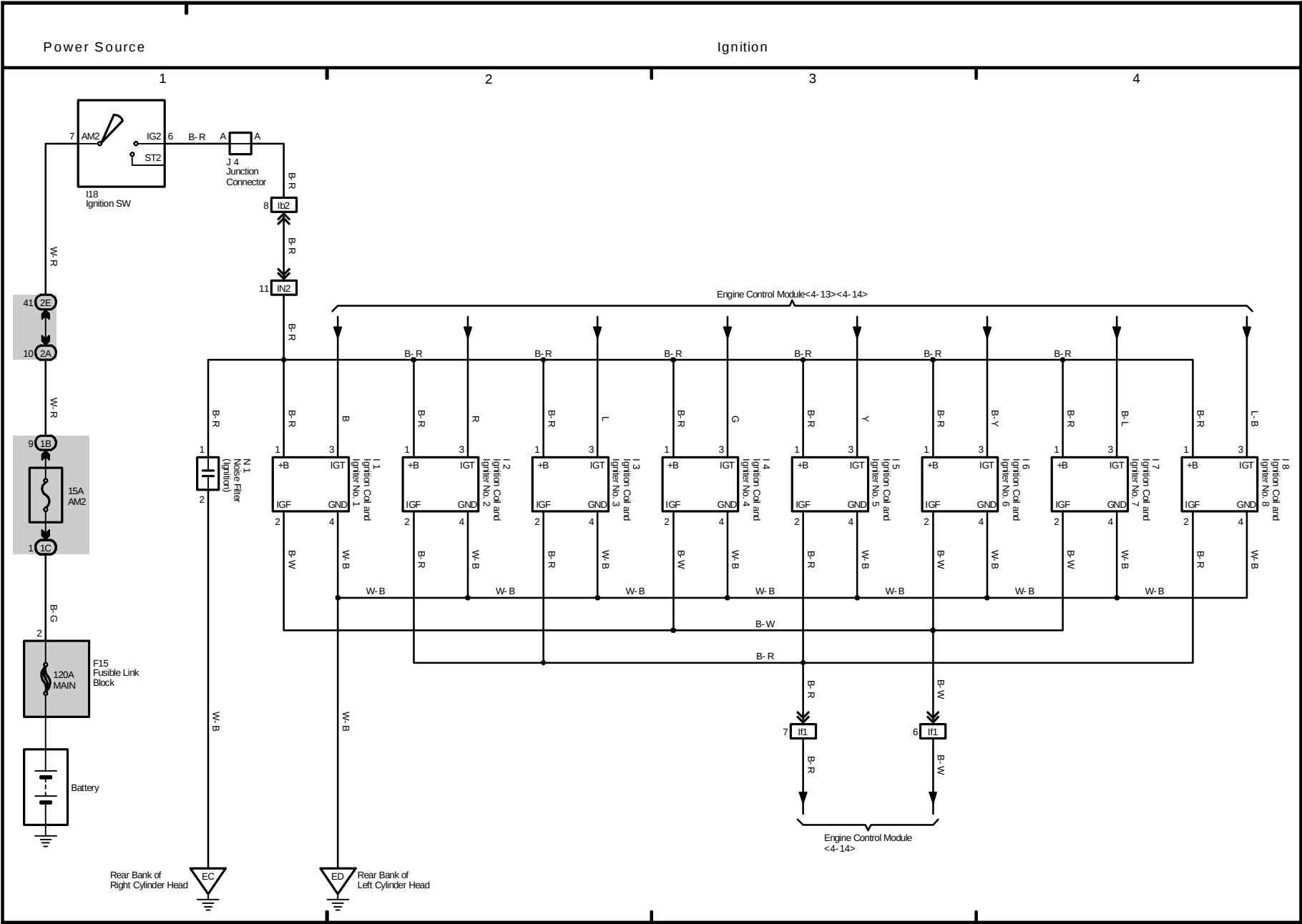


M OVERALL ELECTRICAL WIRING DIAGRAM

2 LAND CRUISER

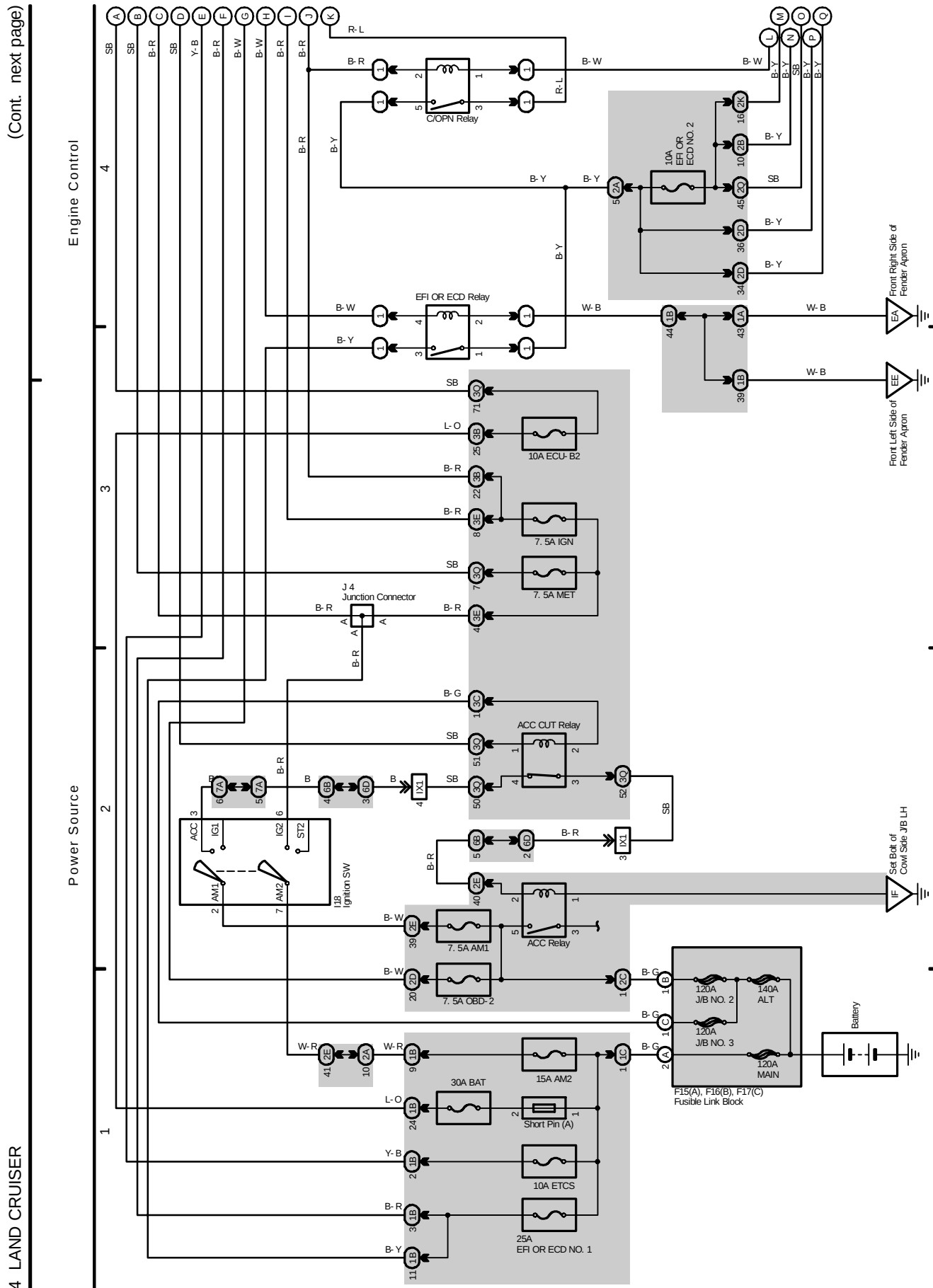


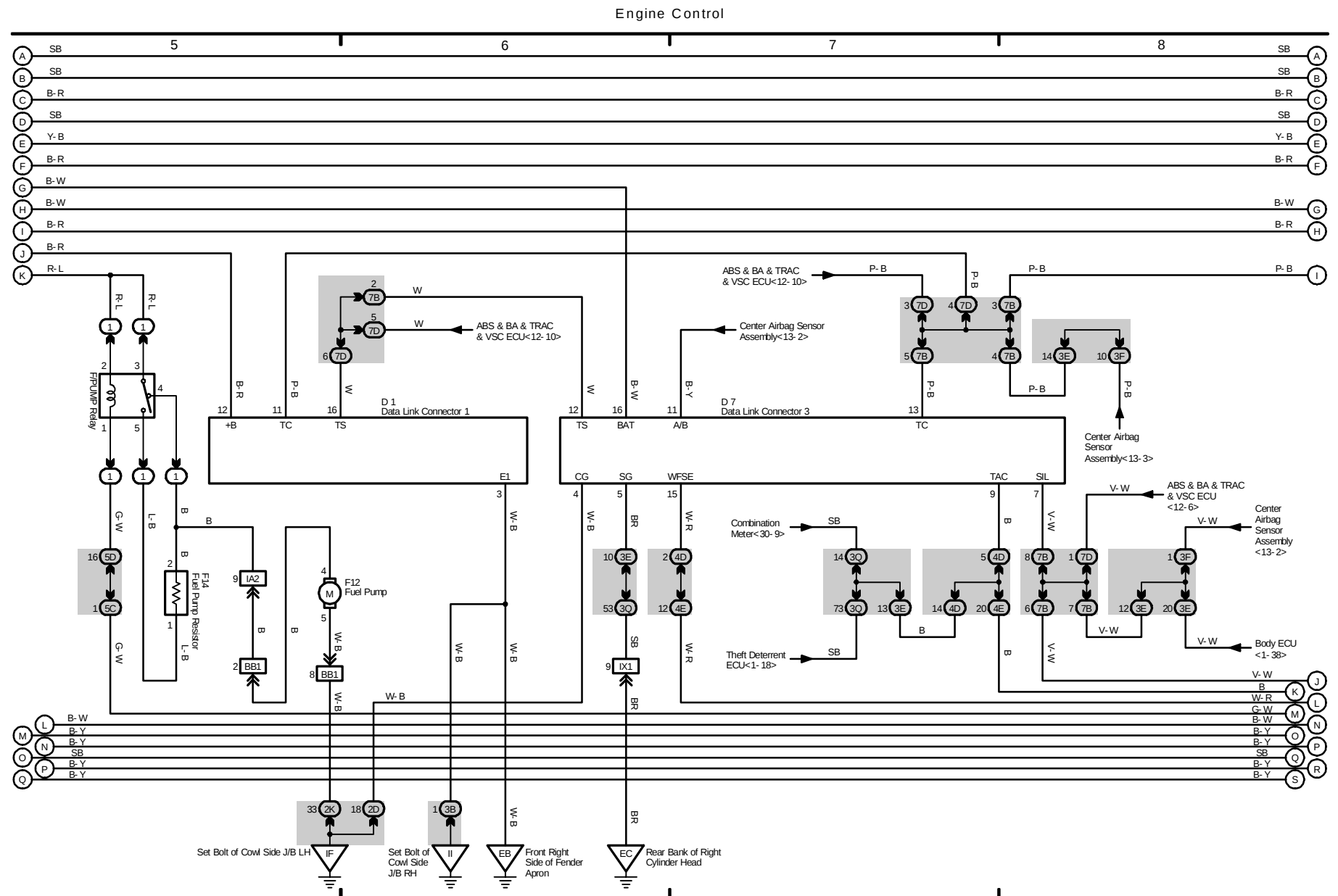
3 LAND CRUISER



2005 LAND CRUISER (EWD601U)

M OVERALL ELECTRICAL WIRING DIAGRAM



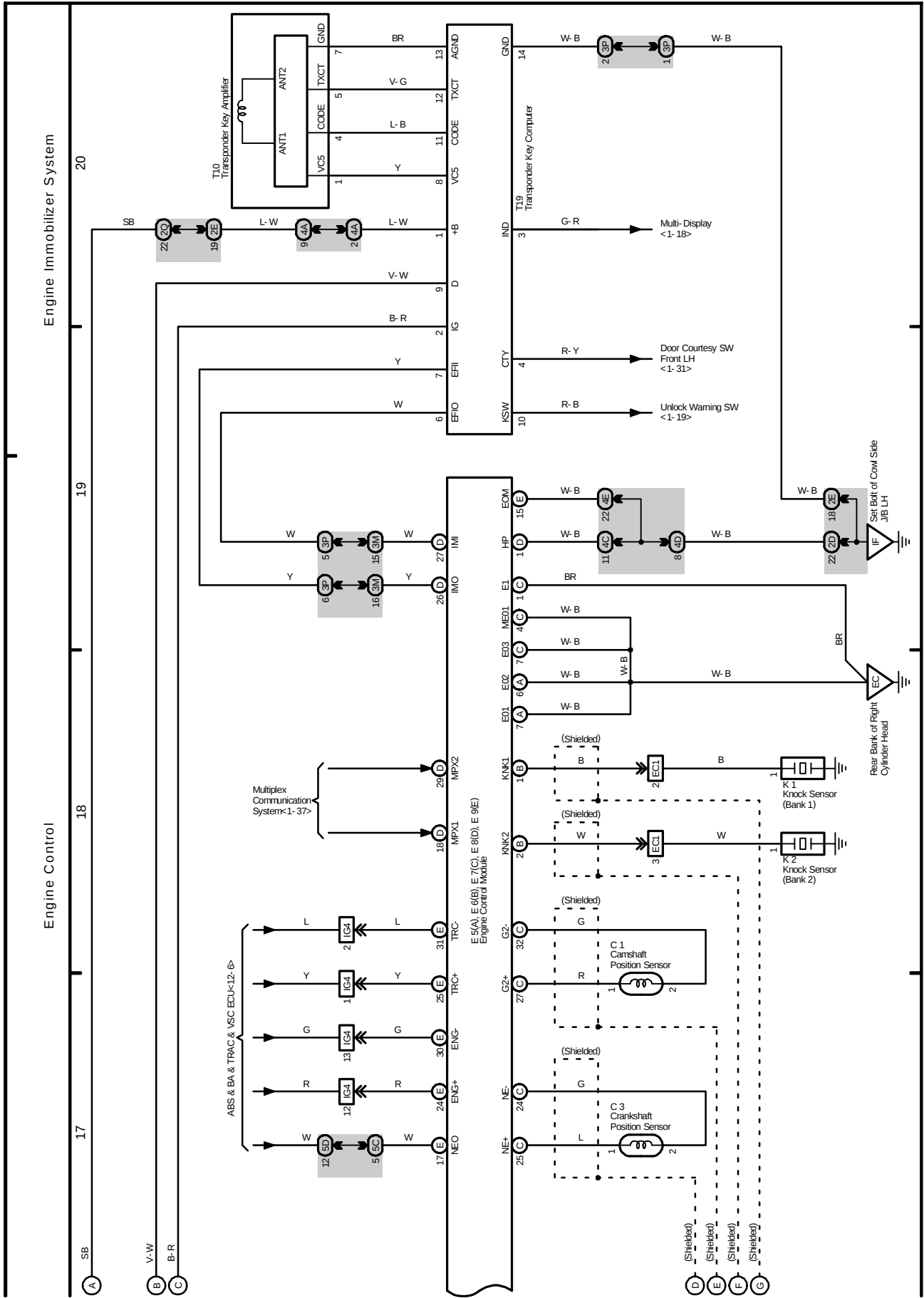


The diagram illustrates the electrical wiring for an engine control system. It features a central 'Engine Control Module' (ECM) with terminals labeled E 5(A), E 6(B), E 7(C), E 8(D), and E 9(E). The system includes various sensors and actuators, such as injectors (No. 1 to 16), a vapor pressure sensor (V1), a throttle control motor and sensor (T16), and a manifold indicator lamp. The wiring is color-coded and labeled with abbreviations like B-R (Black-Red), B-W (Black-White), and V-W (Violet-White). The diagram also shows the connection of the engine control module to the vehicle's battery and other electrical components.



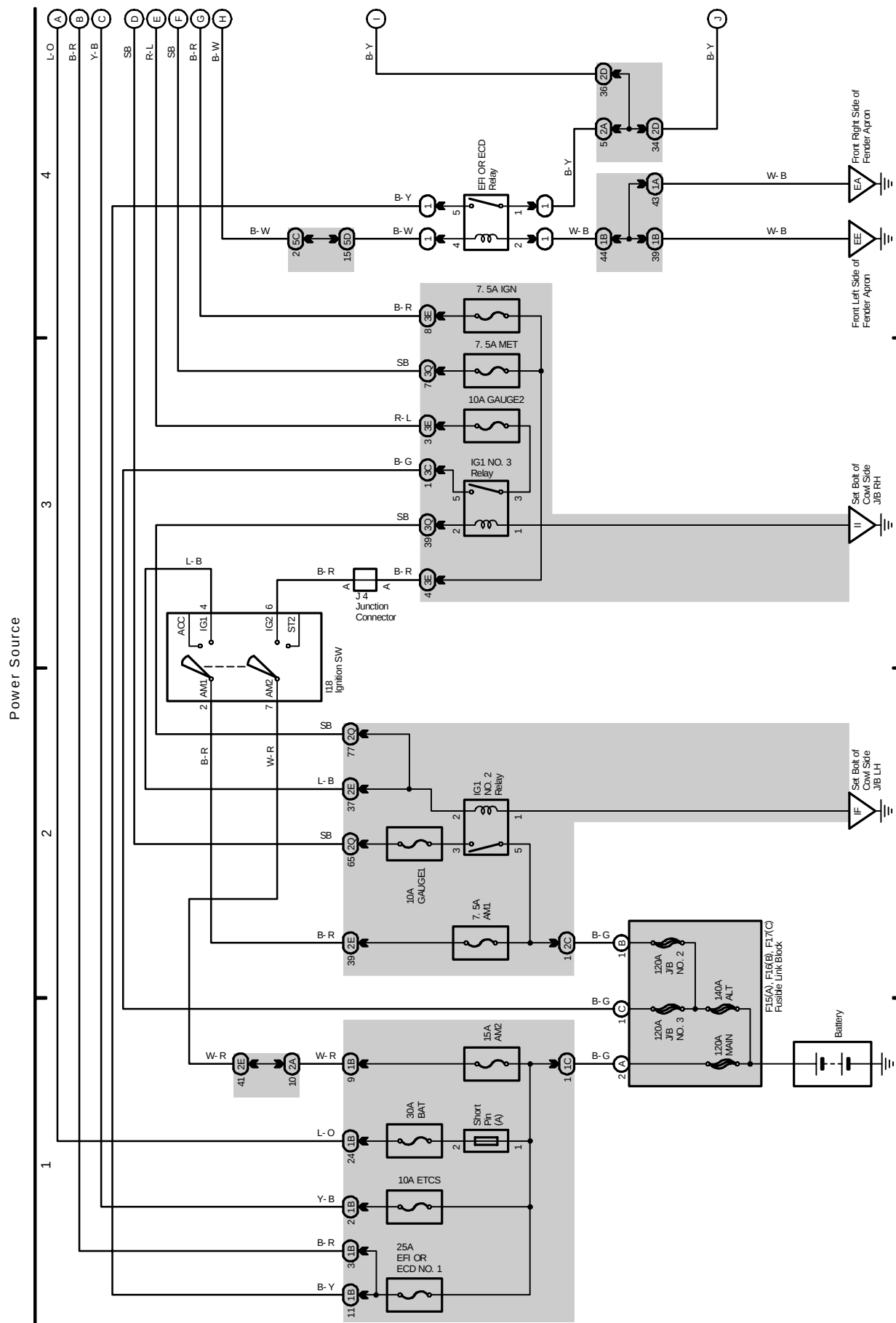
M OVERALL ELECTRICAL WIRING DIAGRAM

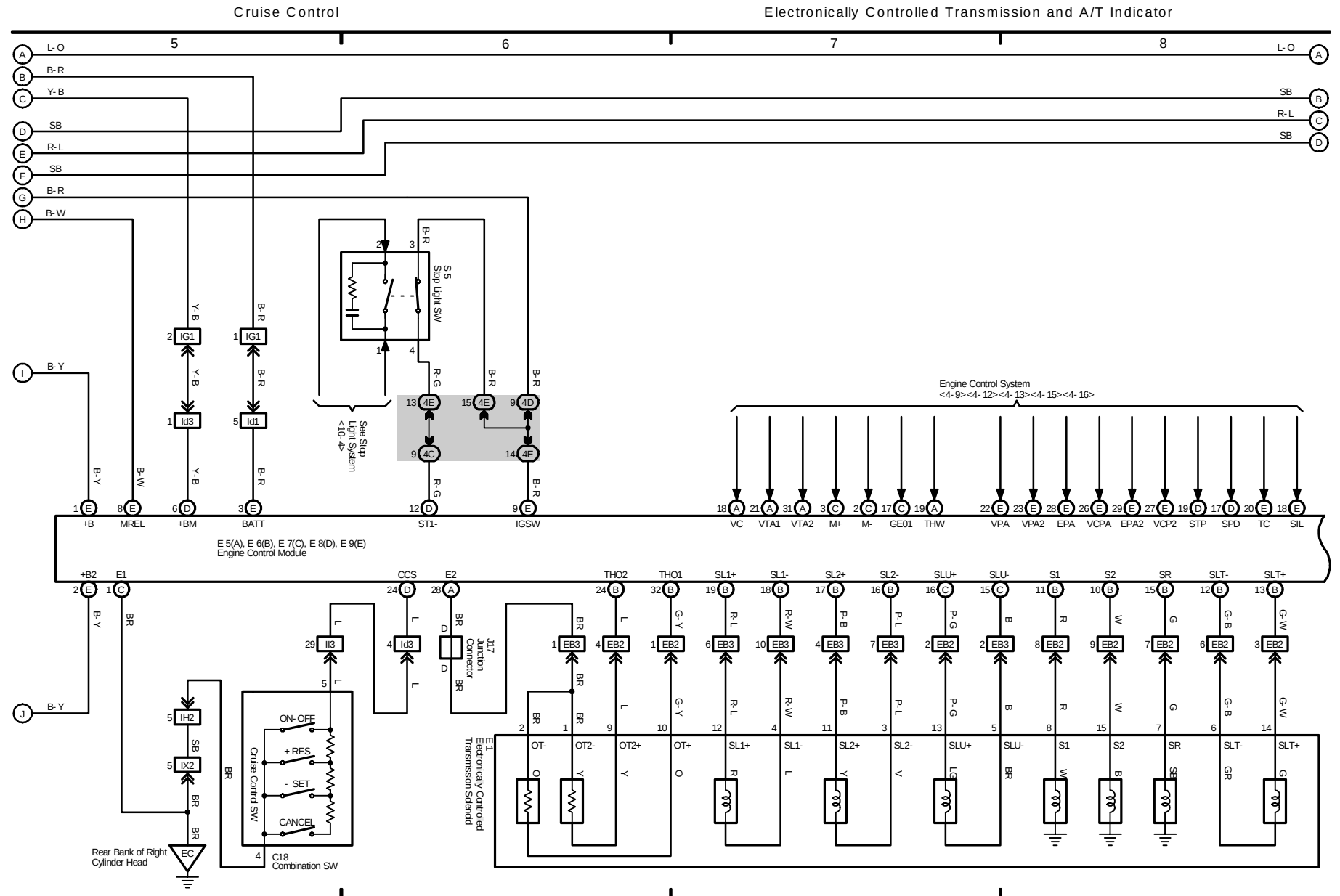
4 LAND CRUISER (Cont' d)



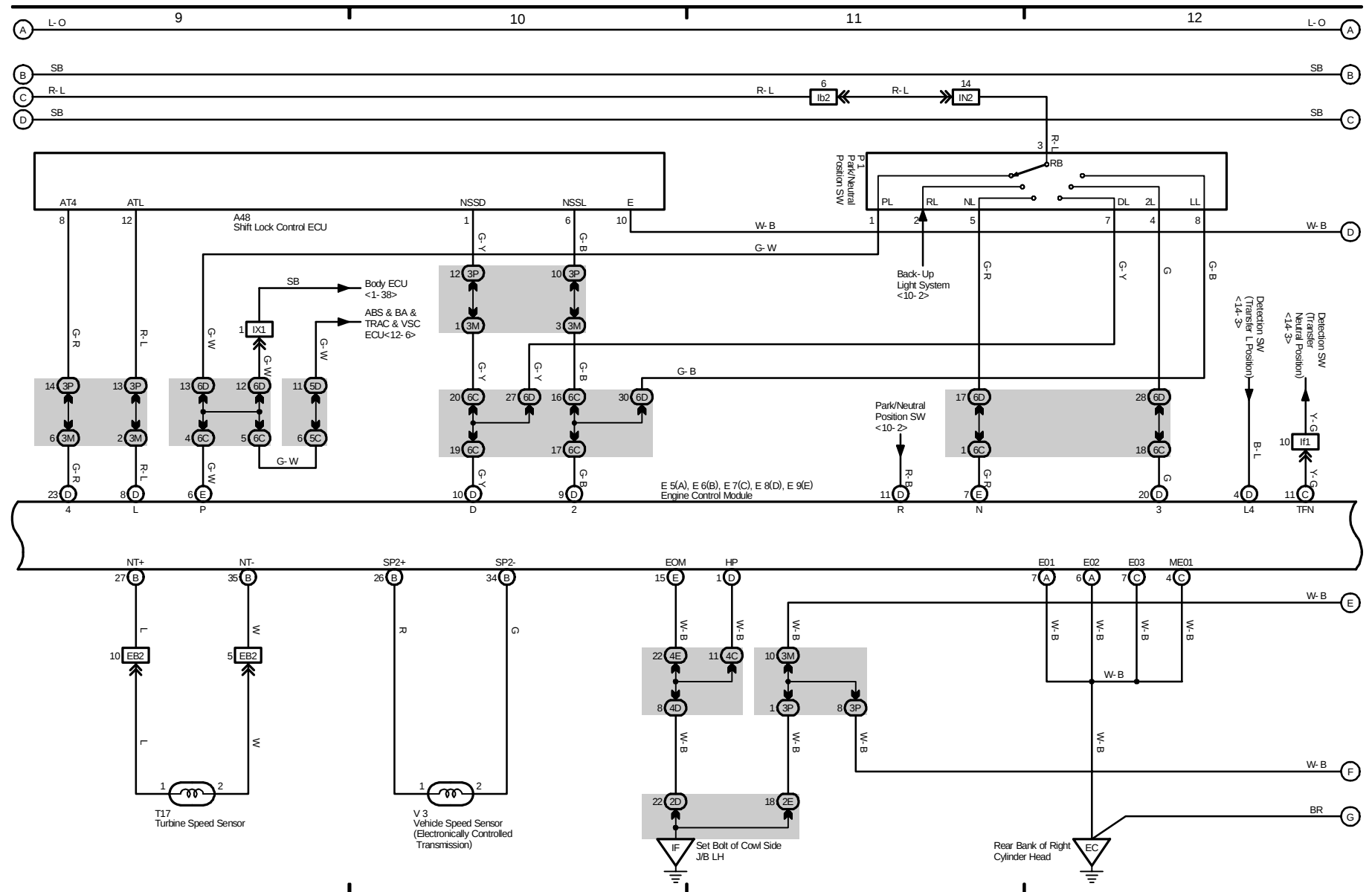
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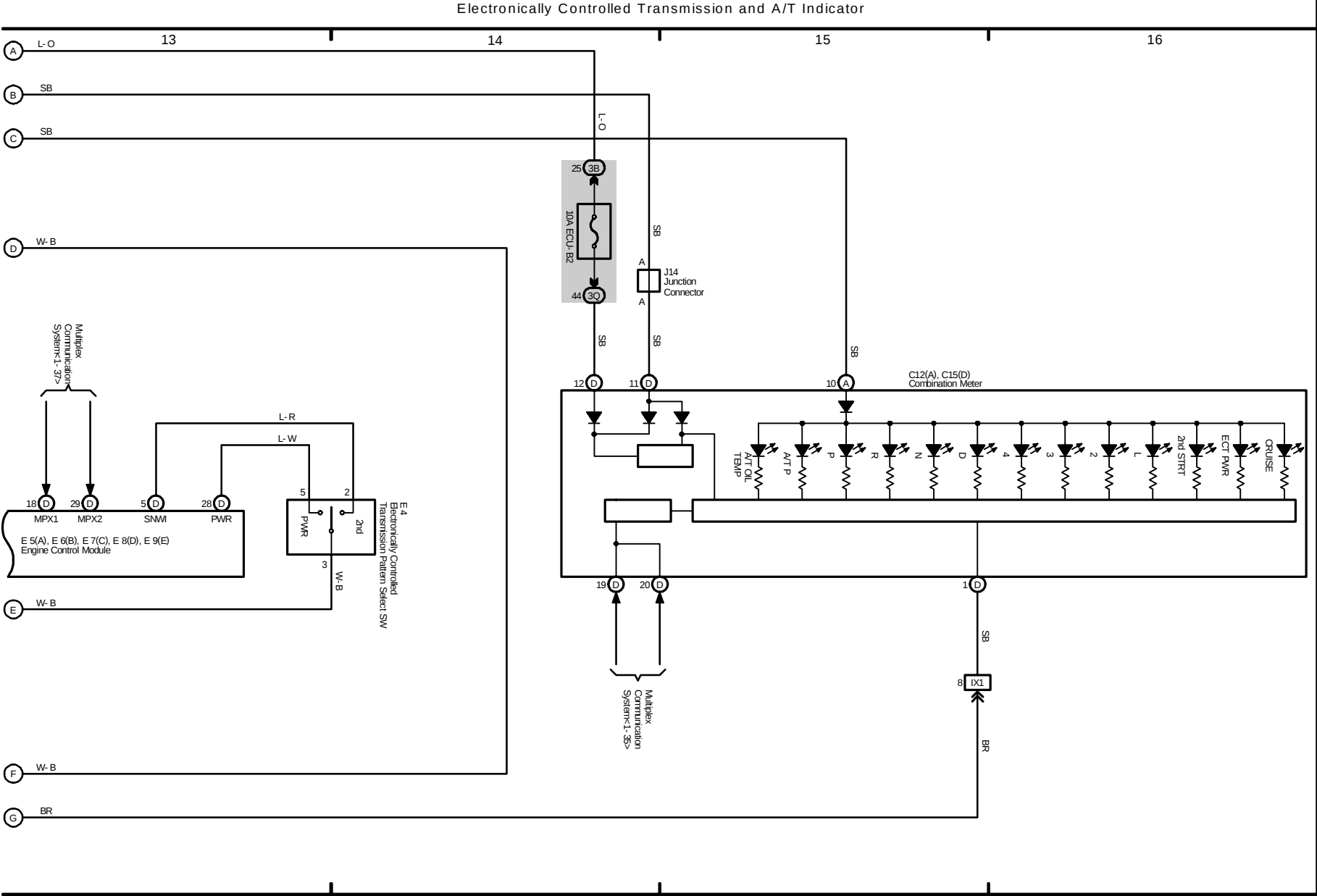
5 LAND CRUISER





Electronically Controlled Transmission and A/T Indicator



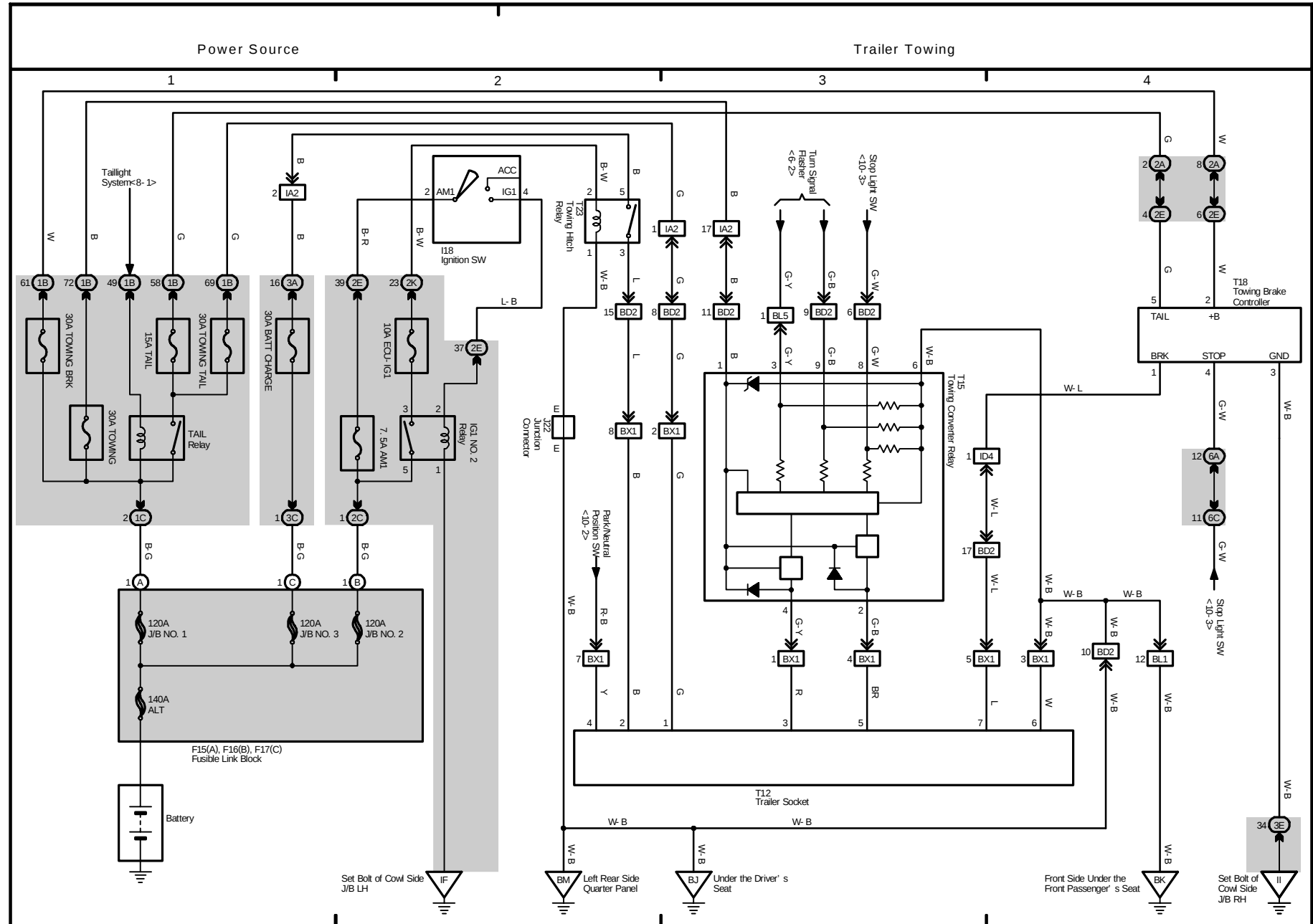


2005 LAND CRUISER (EWD601U)

6 LAND CRUISER



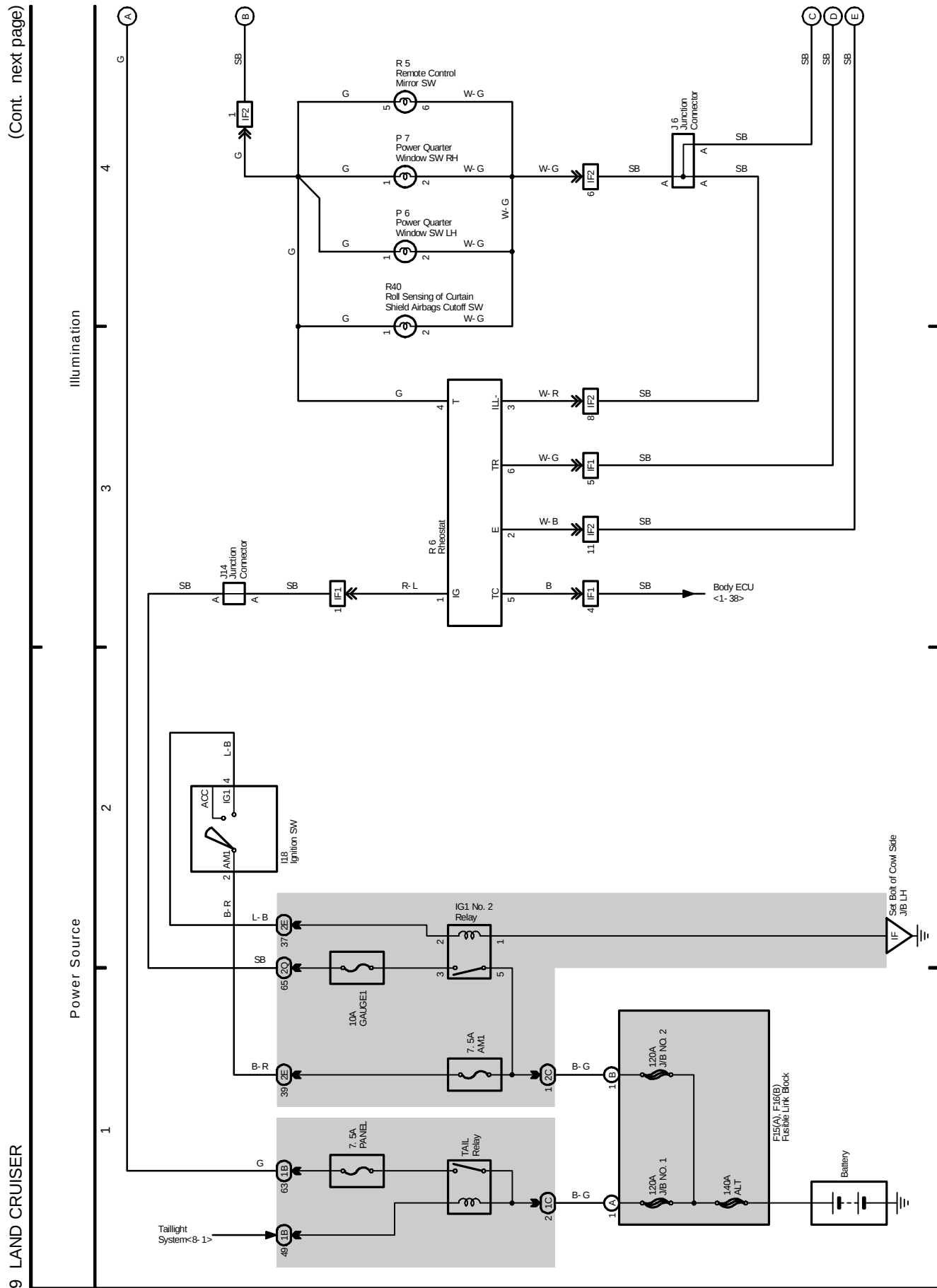
2005 LAND CRUISER (EWD601U)



8 LAND CRUISER



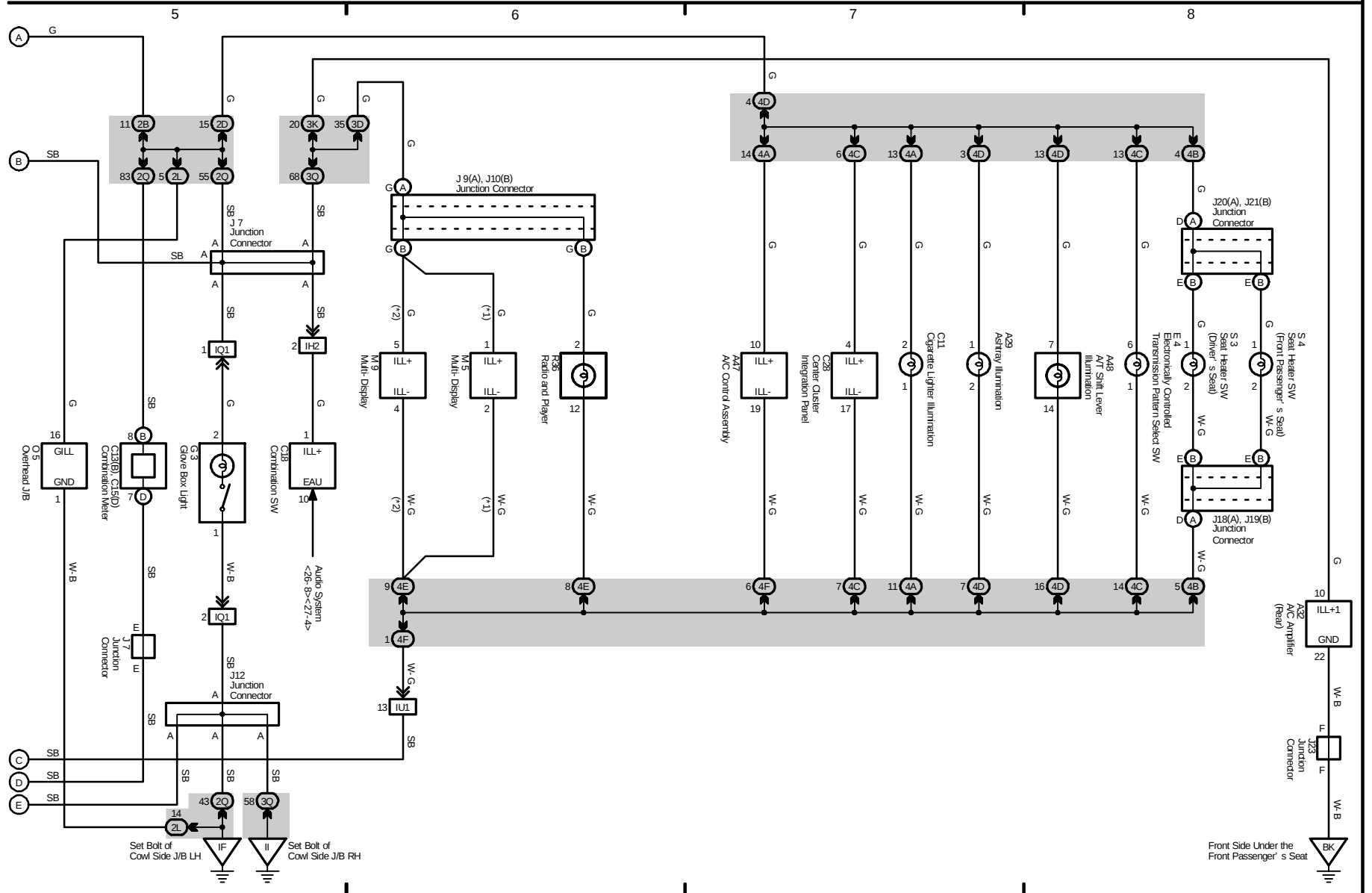
M OVERALL ELECTRICAL WIRING DIAGRAM



9 LAND CRUISER (Cont' d)

Illumination

* 1 : w/ Navigation System
 * 2 : w/o Navigation System



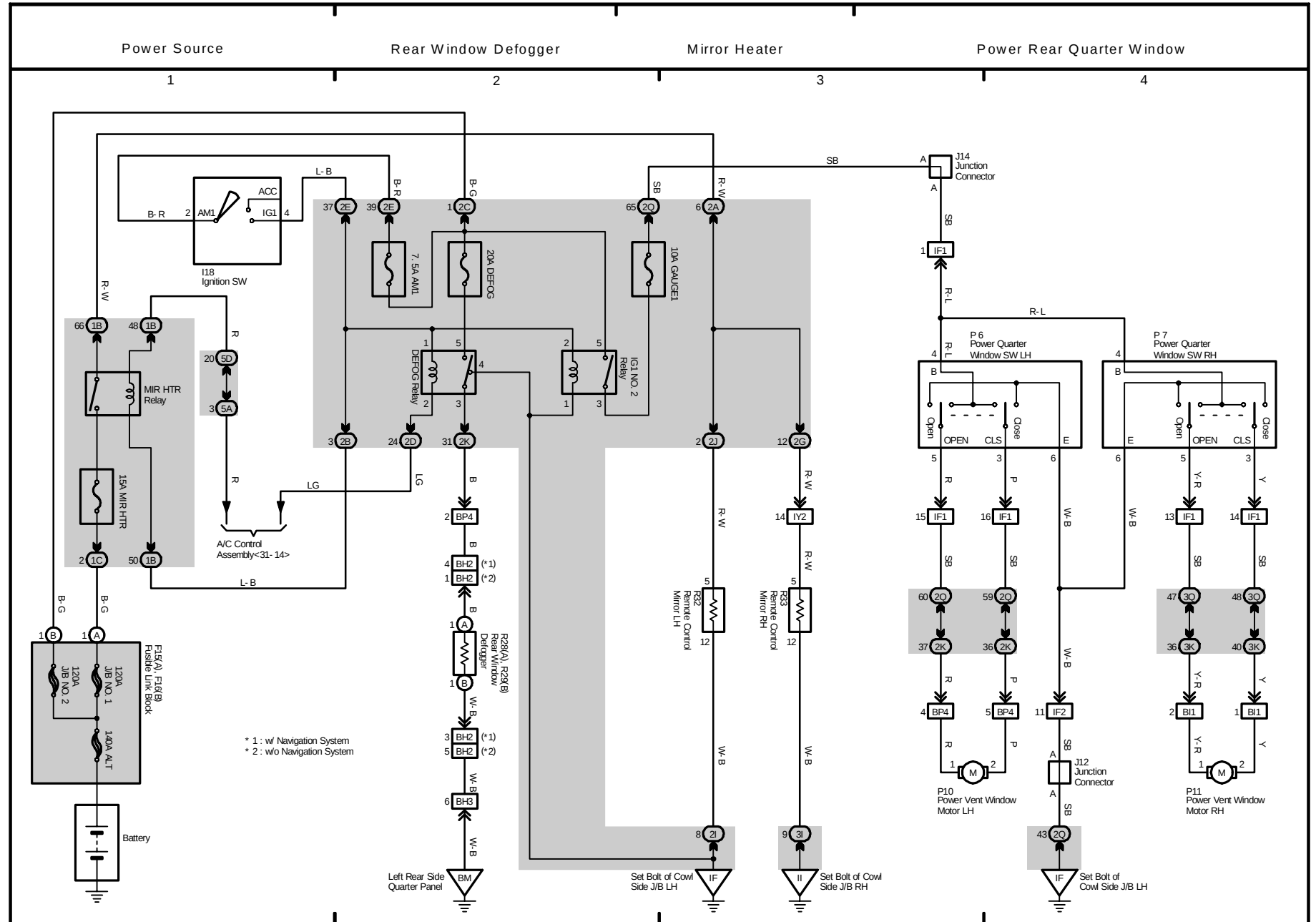
2005 LAND CRUISER (EWD601U)

10 LAND CRUISER



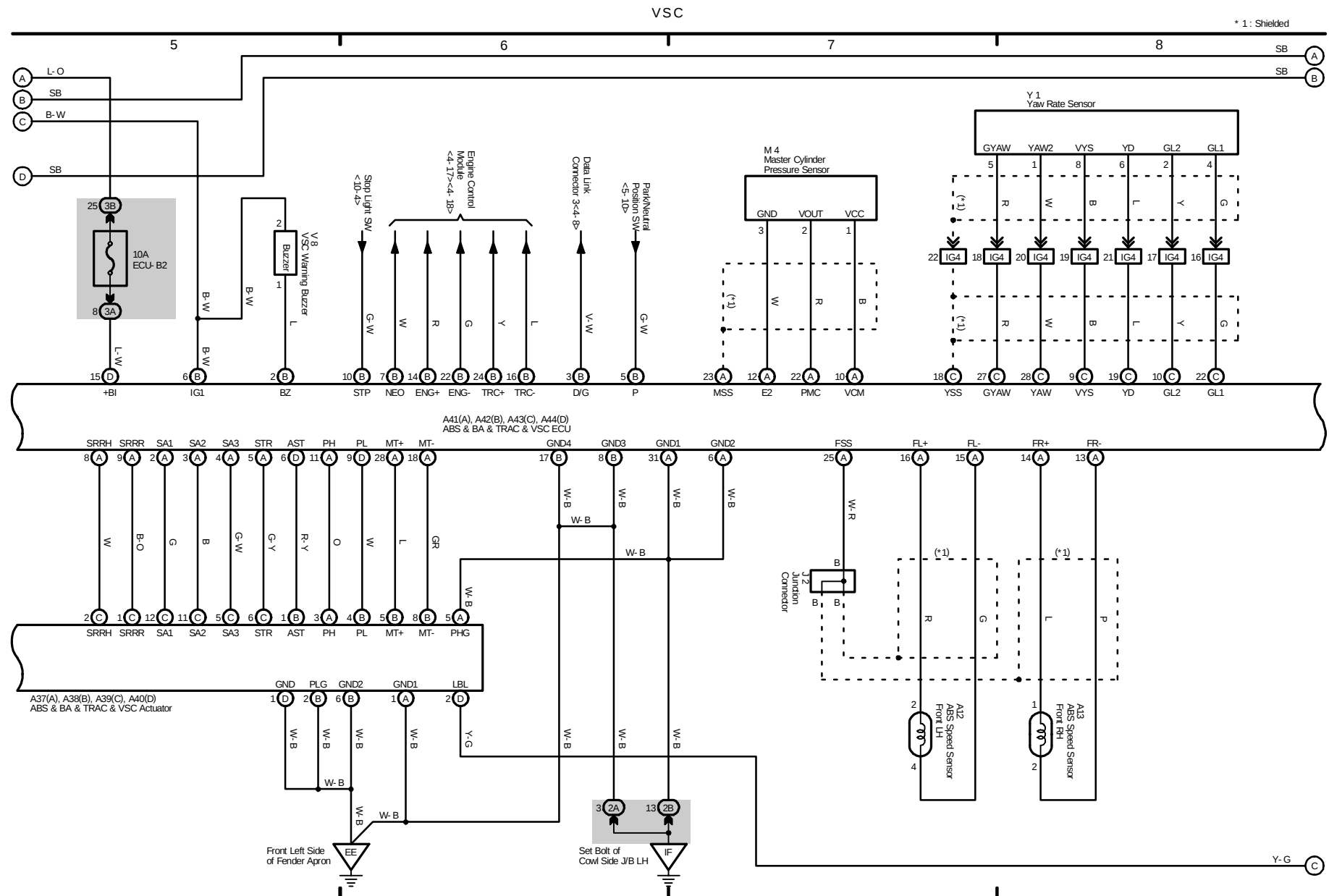
11 LAND CRUISER

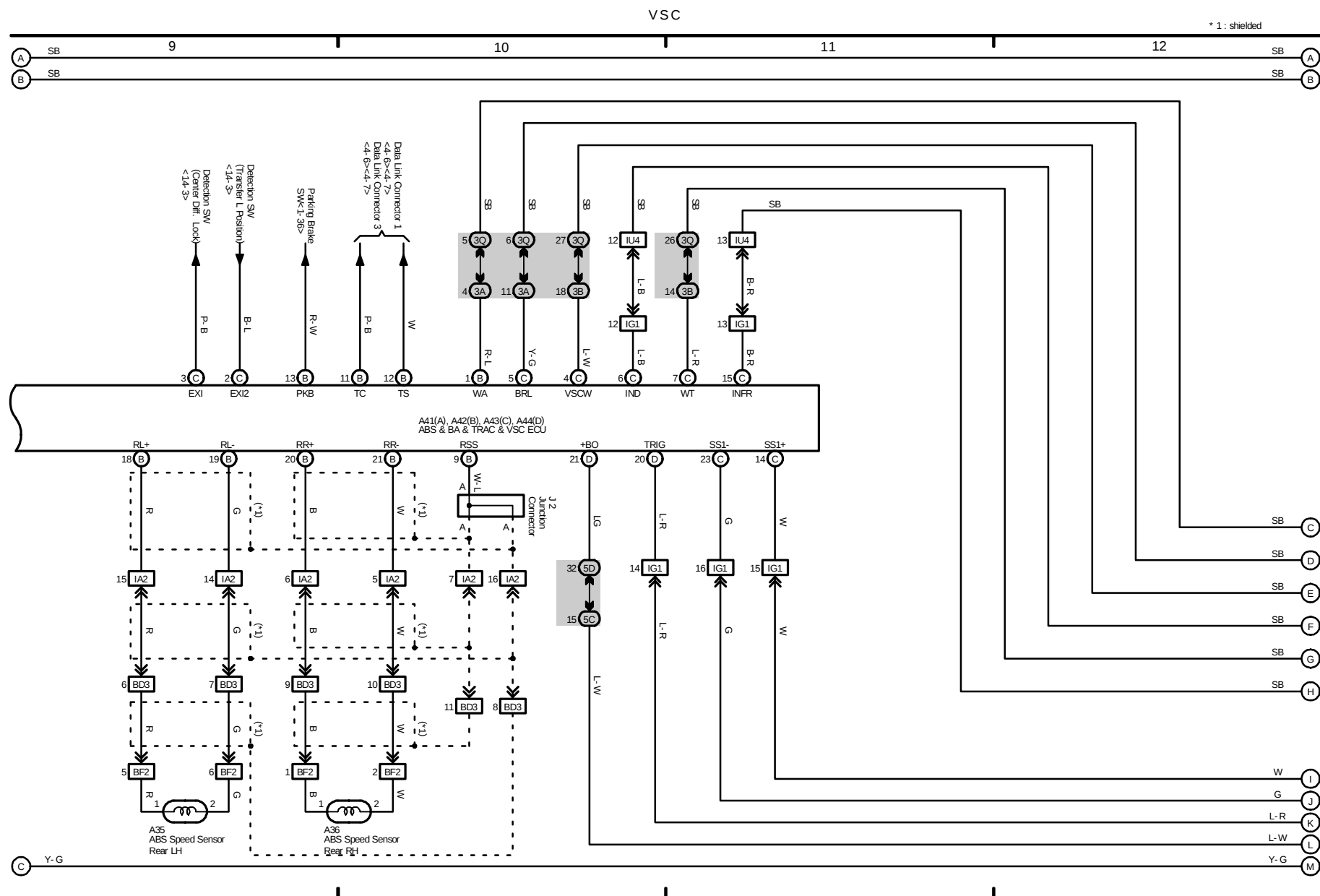
2005 LAND CRUISER (EWD601U)



12 LAND CRUISER

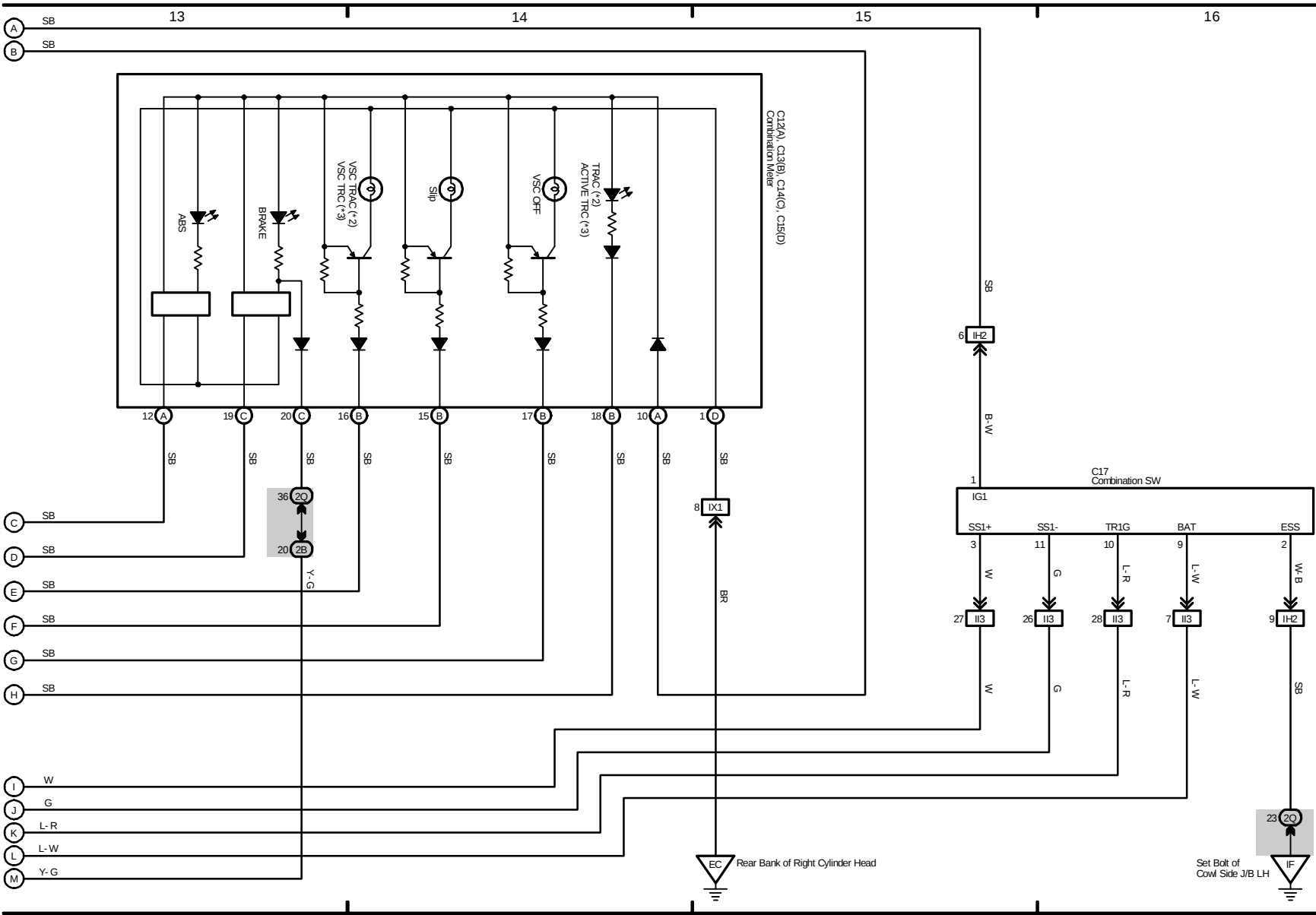






VSC

* 2 : USA
* 3 : Except *2



2005 LAND CRUISER (EWD601U)

13 LAND CRUISER

(Cont. next page)



13 LAND CRUISER (Cont' d)

SRS

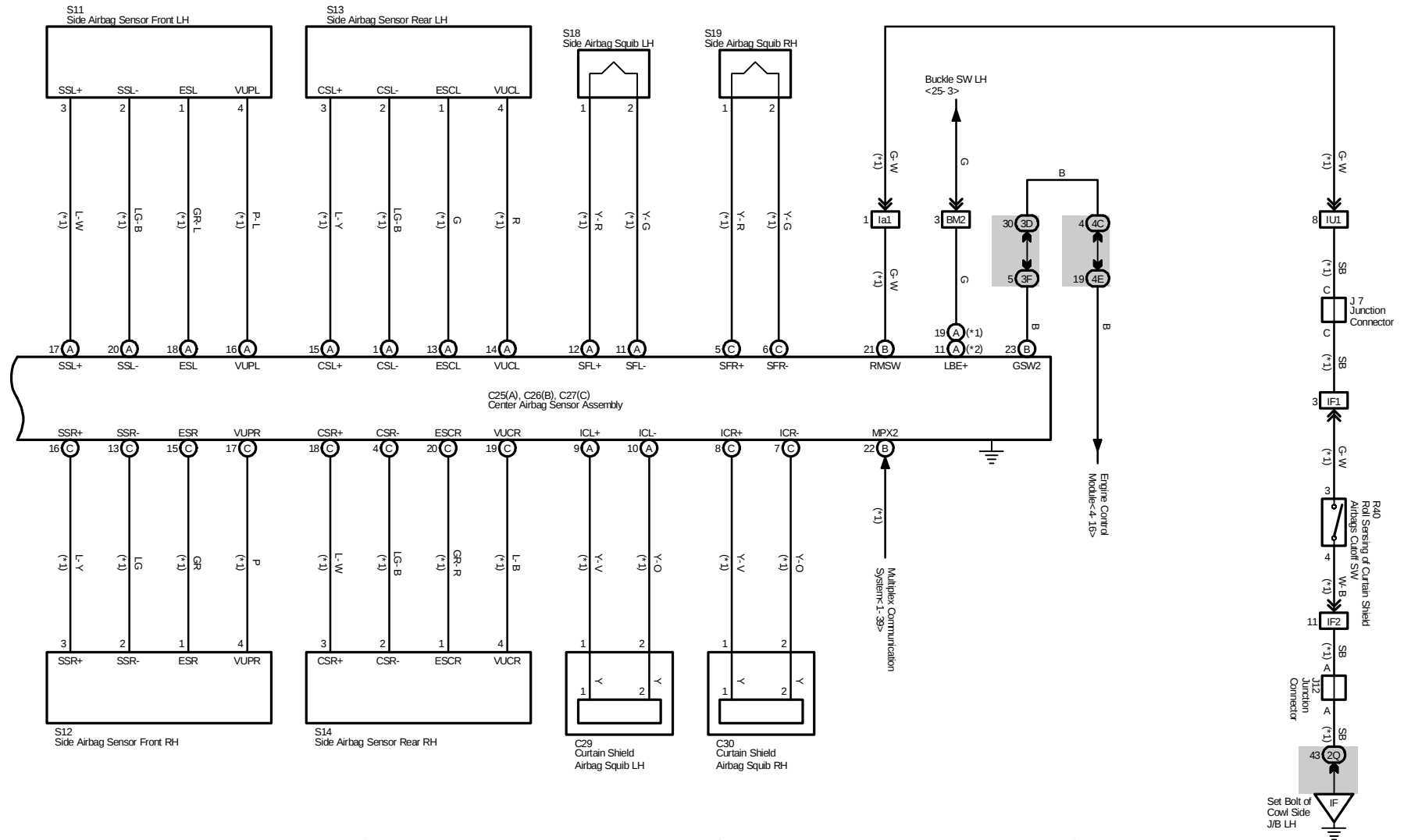
5

6

7

8

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



2005 LAND CRUISER (EWD601U)

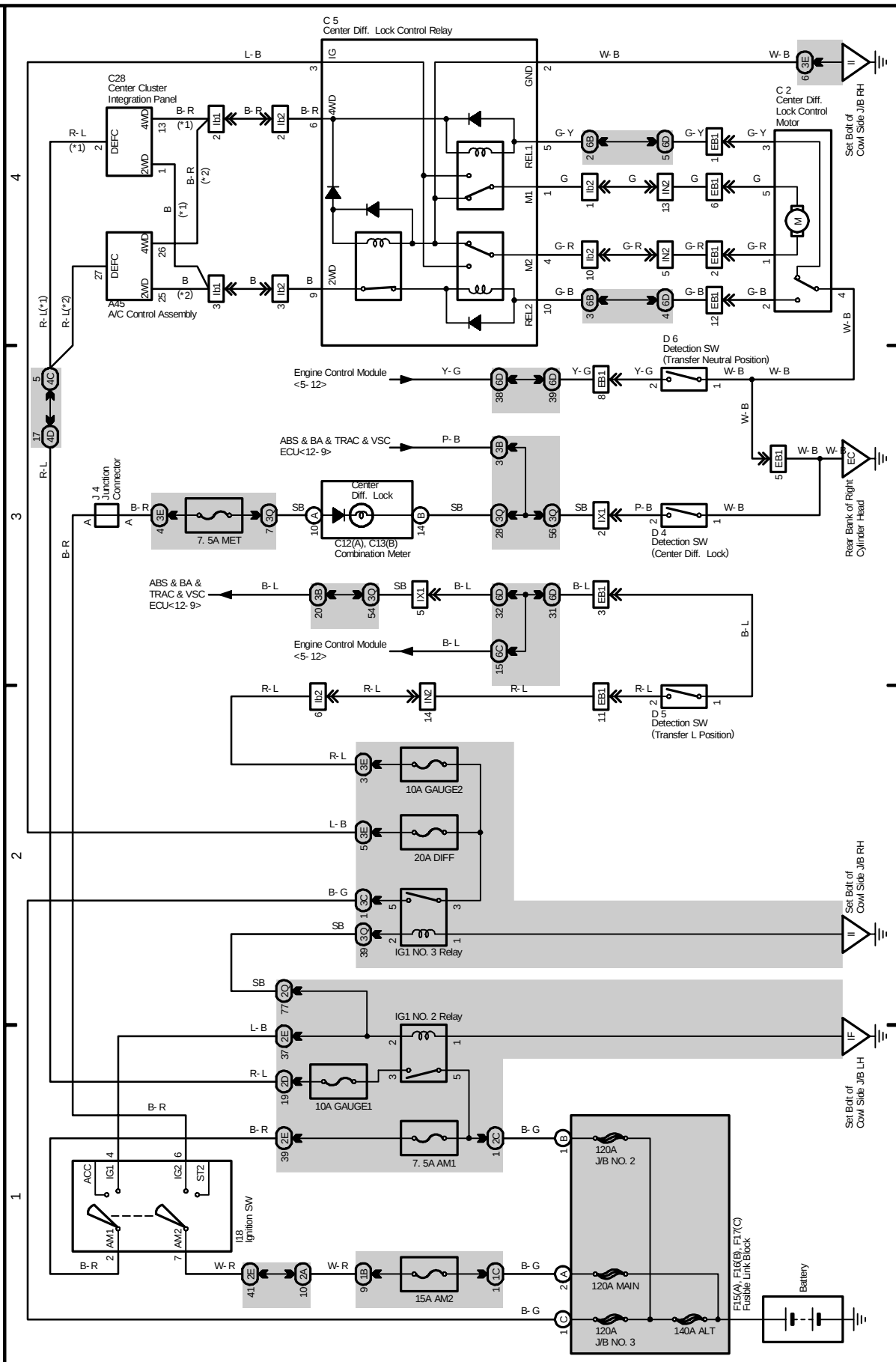
M OVERALL ELECTRICAL WIRING DIAGRAM

14 LAND CRUISER

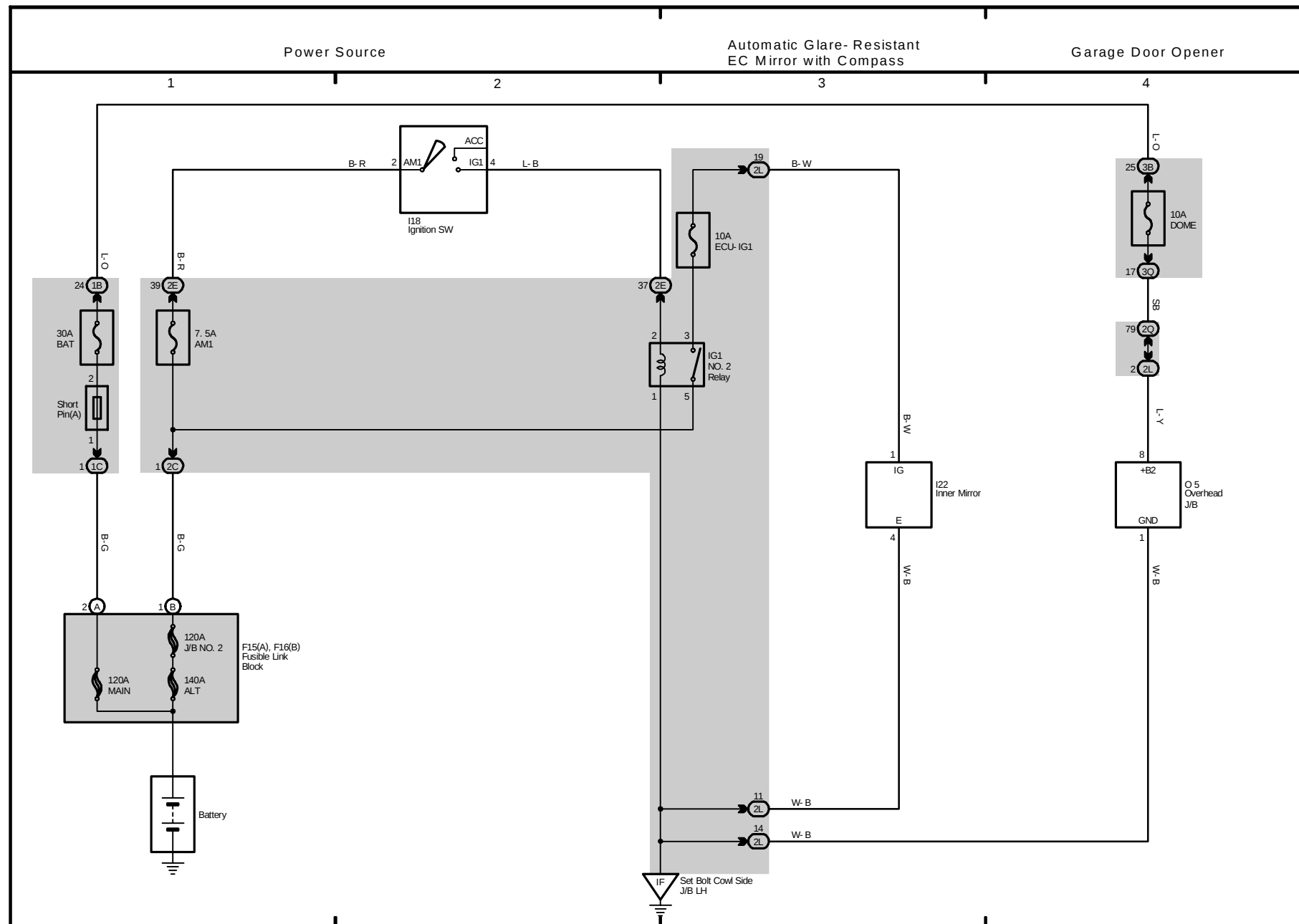
*1: w/ Navigation System
*2: w/o Navigation System

Center Differential Lock

Power Source

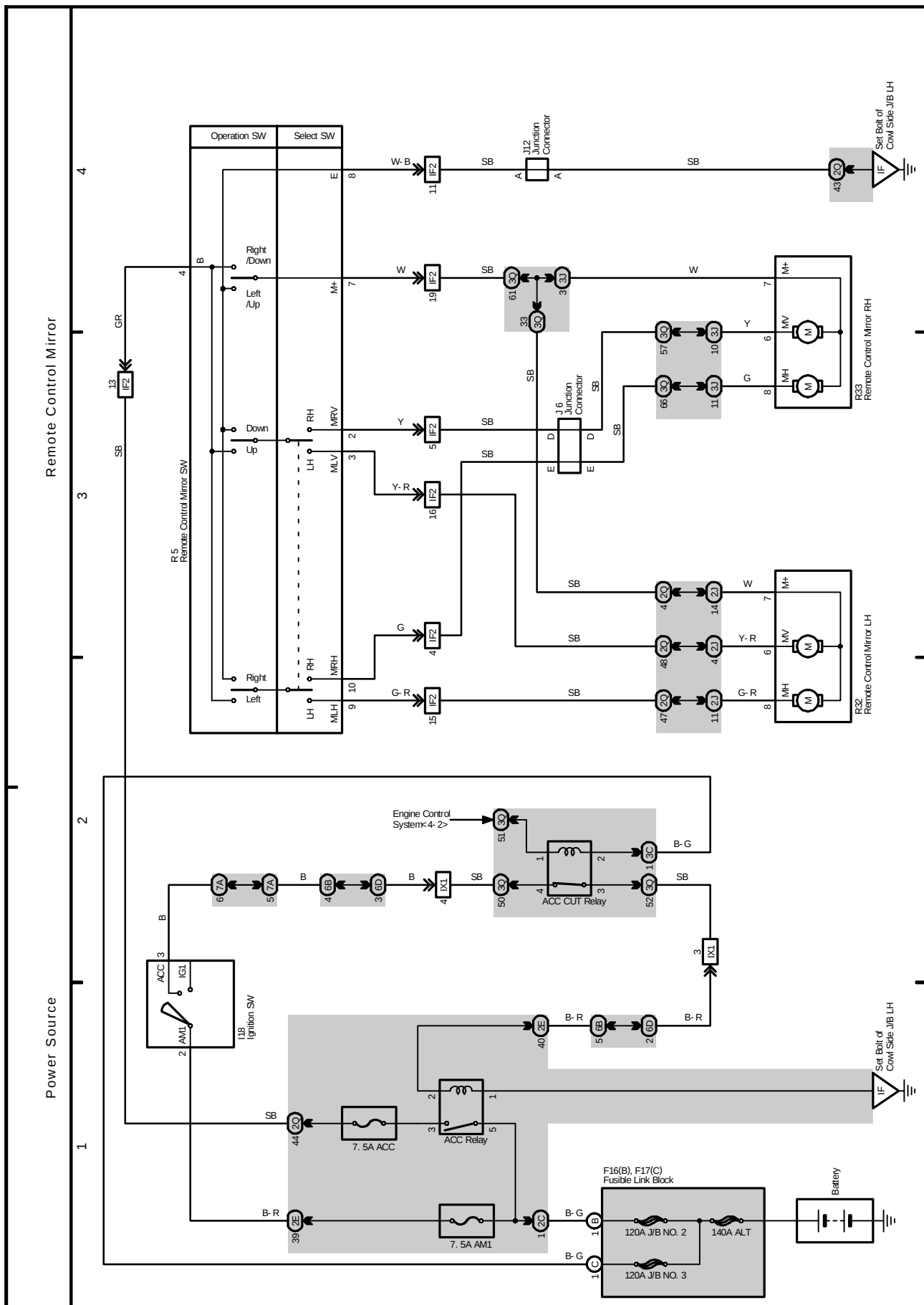


2005 LAND CRUISER (EWD601U)



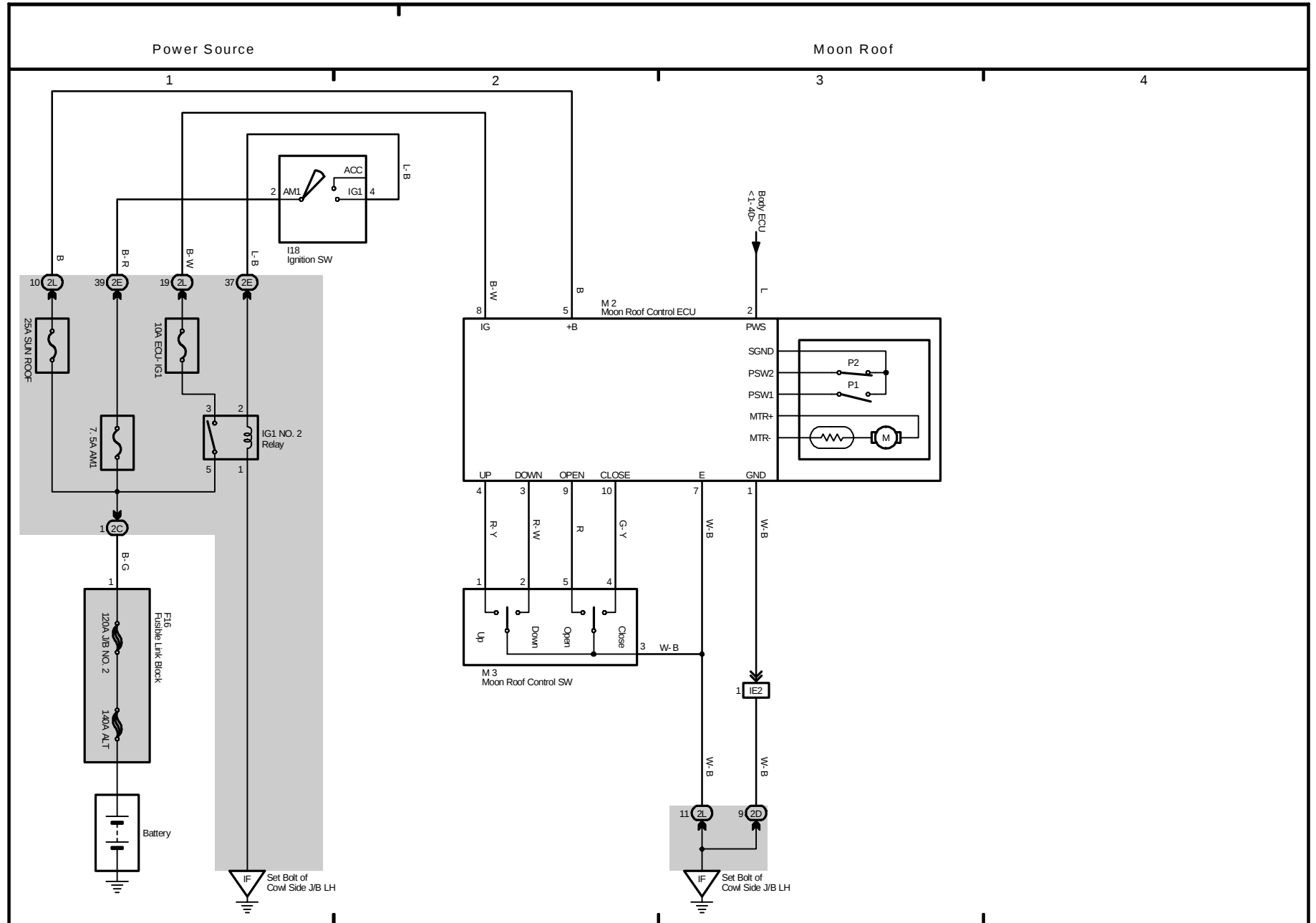
M OVERALL ELECTRICAL WIRING DIAGRAM

16 LAND CRUISER



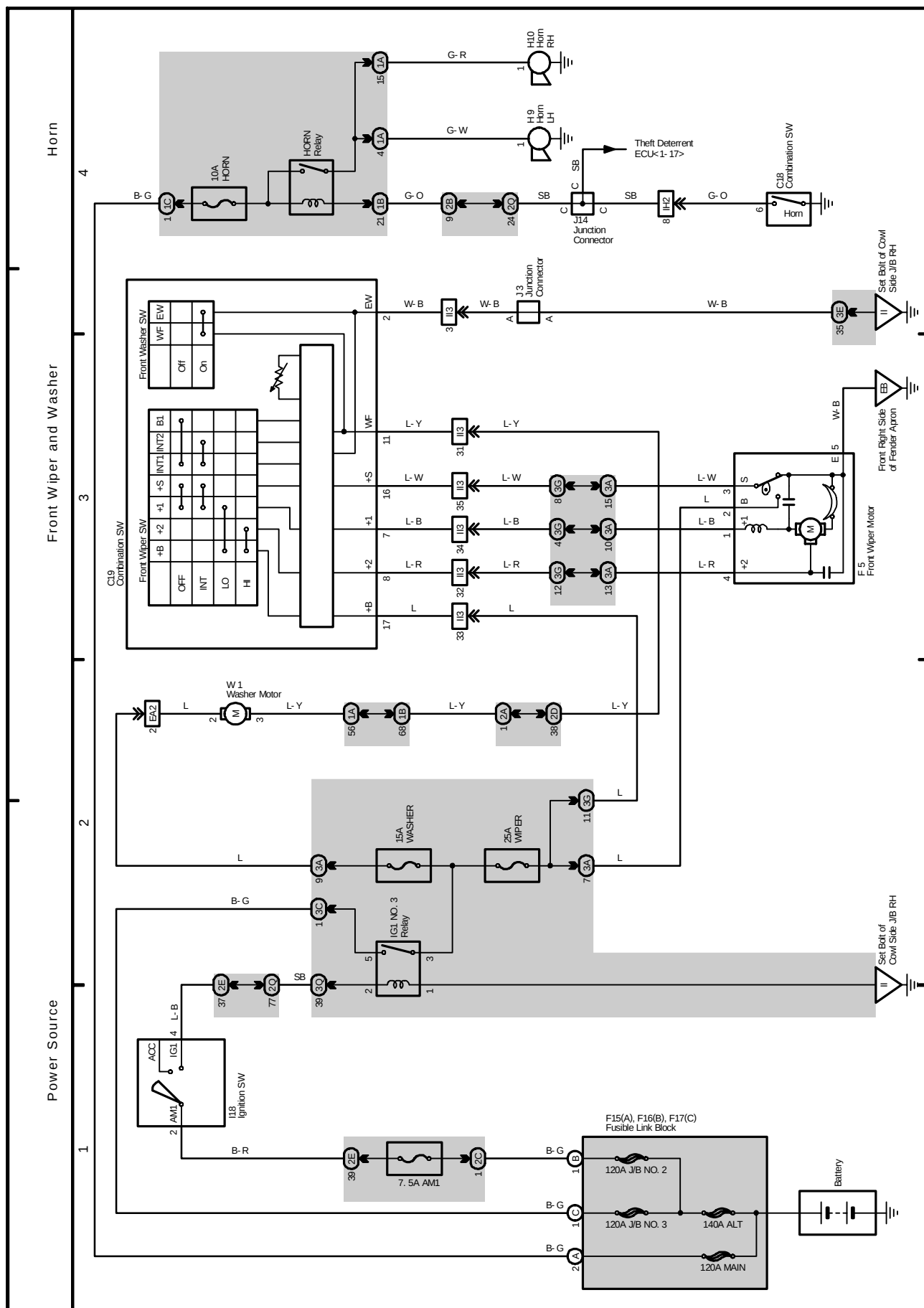
17 LAND CRUISER

2005 LAND CRUISER (EWD601U)



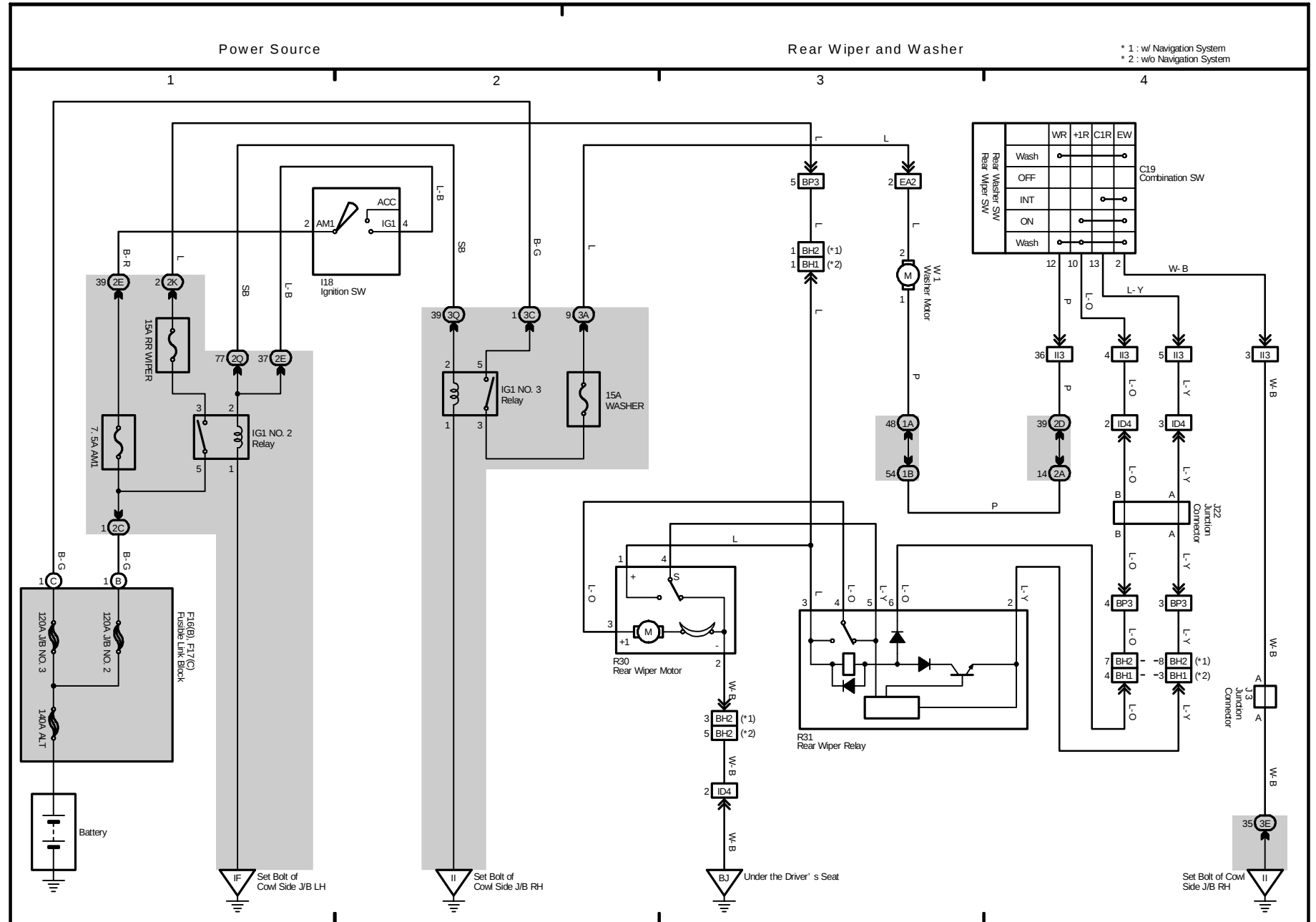
M OVERALL ELECTRICAL WIRING DIAGRAM

18 LAND CRUISER

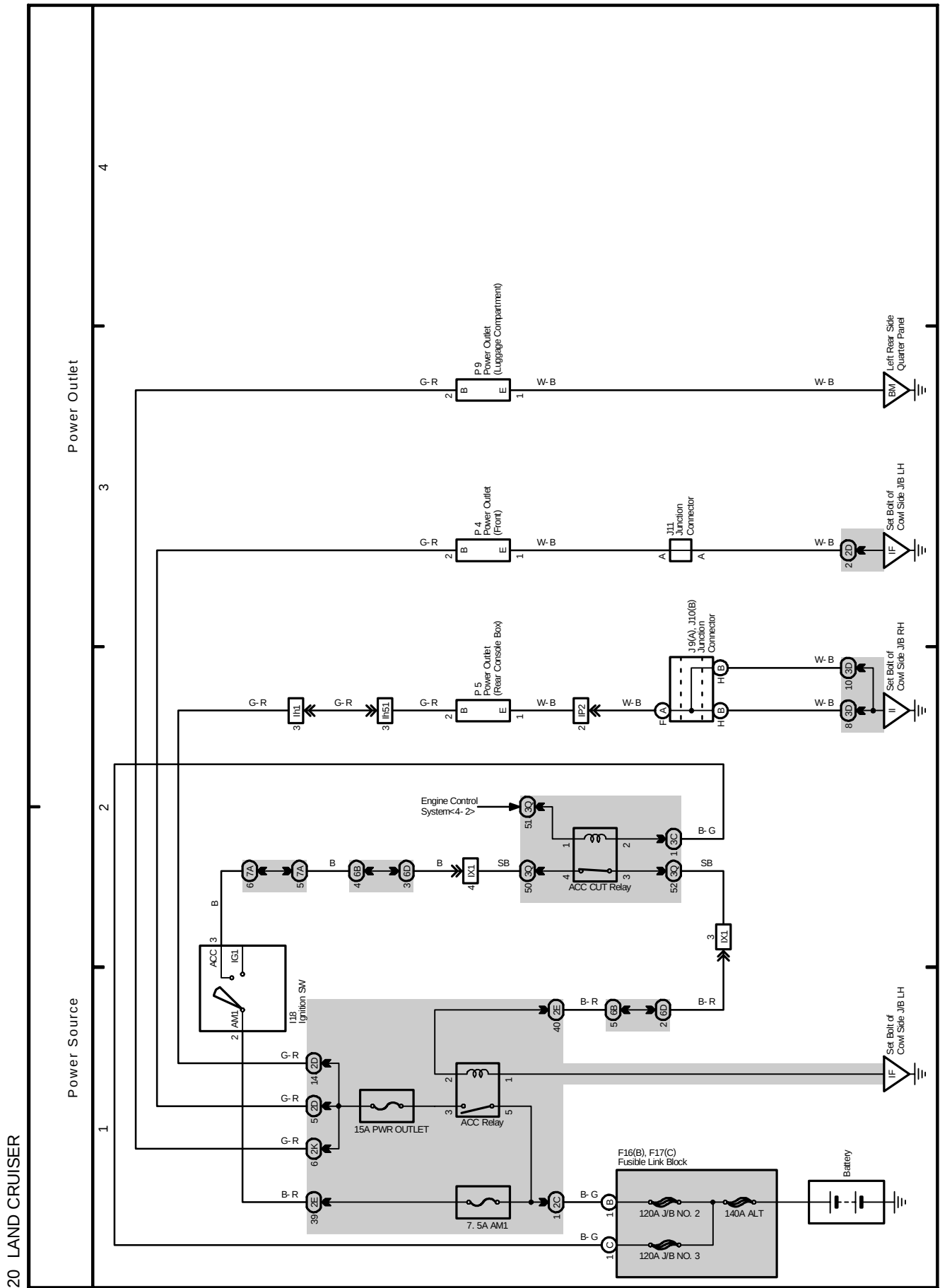


19 LAND CRUISER

2005 LAND CRUISER (EWD601U)

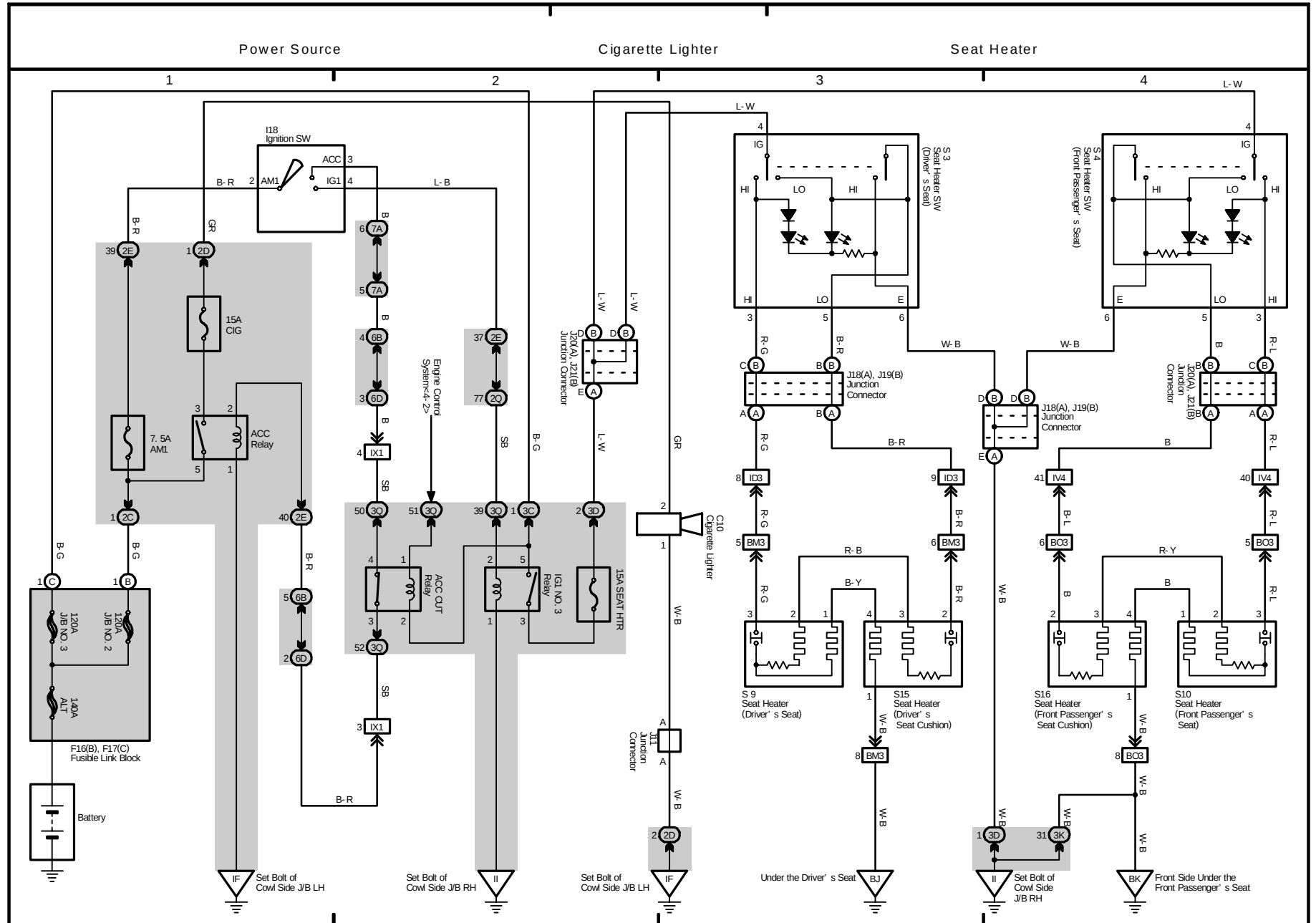


M OVERALL ELECTRICAL WIRING DIAGRAM



21 LAND CRUISER

2005 LAND CRUISER (EWD601U)



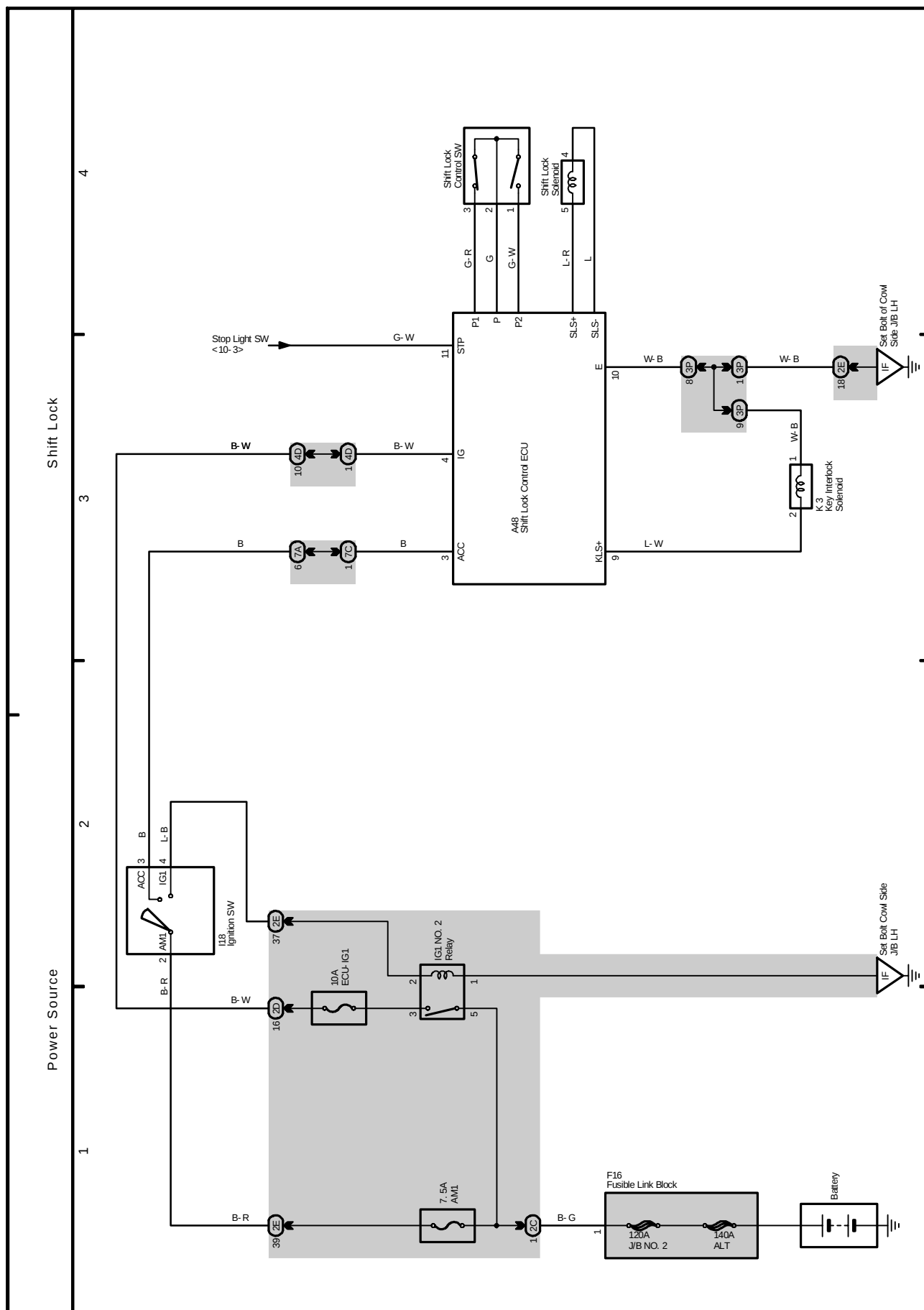
22 LAND CRUISER



2005 LAND CRUISER (EWD601U)



24 LAND CRUISER



2005 LAND CRUISER (EWD601U)



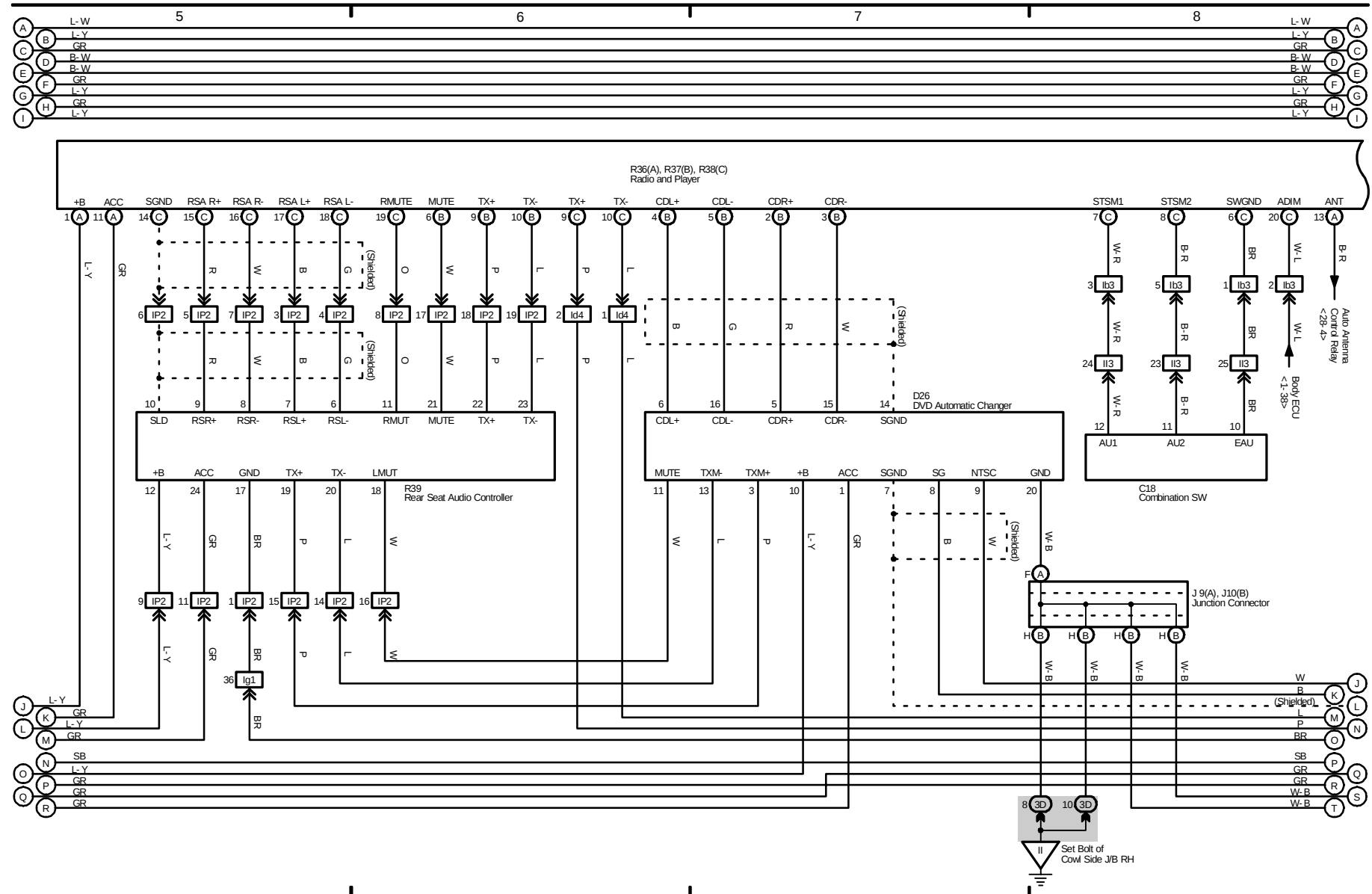
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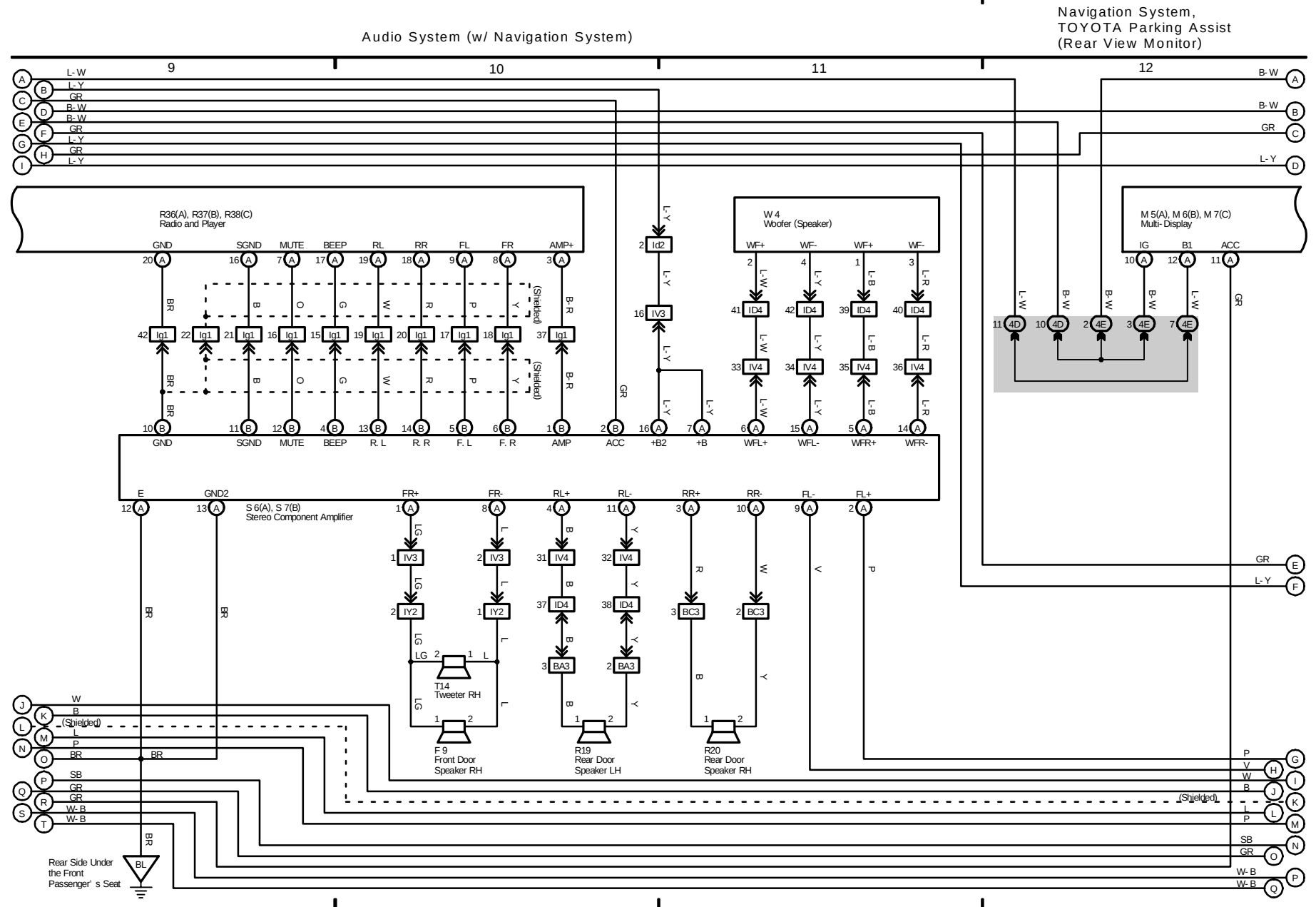
26 LAND CRUISER



(Cont. next page)

Audio System (w/ Navigation System)





The diagram illustrates the wiring for a vehicle's audio and communication system, organized into sections 13, 14, 15, and 16. The system includes a Multi-Display unit (M 5(A), M 6(B), M 7(C)) and a Navigation ECU (N 2(A), N 3(B), N 4(C)).

Section 13: Includes inputs for NTSC, SGD1, SGND, TX-, TX+, IVO+, IVO-, and outputs for SPD, DR, PKB, TC, and LP. It also shows connections for VOI+, VOI-, SLD1, MIC+, MIC-, ACC, +B, AUI+, AUI-, AUO-, AUO+, SPD, REV, GND, SNSE, R, G, B, SYNC, VR, VG, TX+, TX-, and L-B.

Section 14: Includes inputs for MCO+, MCO-, and outputs for SPD, DR, PKB, TC, and LP. It also shows connections for VOI+, VOI-, SLD1, MIC+, MIC-, ACC, +B, AUI+, AUI-, AUO-, AUO+, SPD, REV, GND, SNSE, R, G, B, SYNC, VR, VG, TX+, TX-, and L-B.

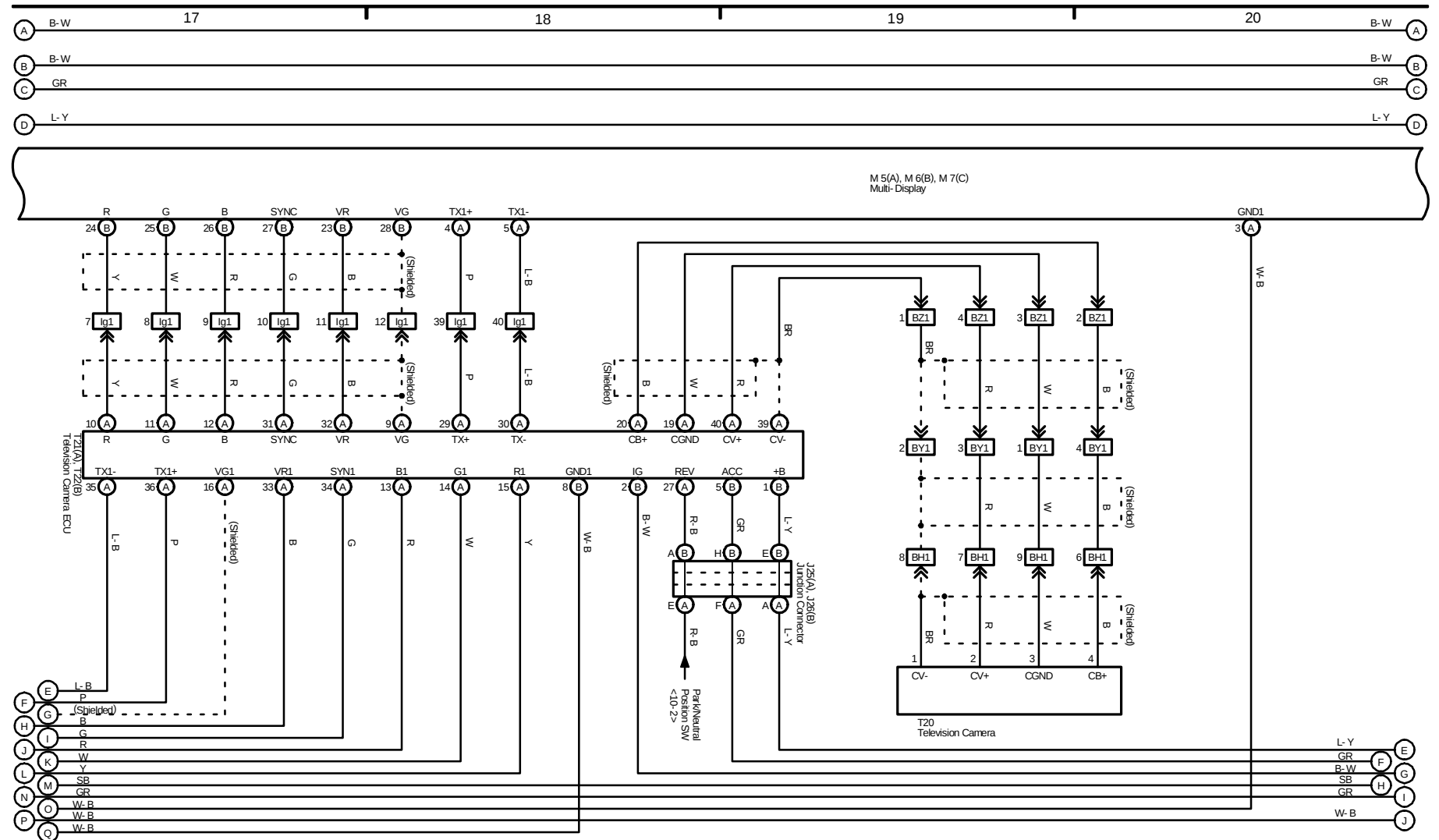
Section 15: Includes inputs for SPD, DR, PKB, TC, and LP. It also shows connections for VOI+, VOI-, SLD1, MIC+, MIC-, ACC, +B, AUI+, AUI-, AUO-, AUO+, SPD, REV, GND, SNSE, R, G, B, SYNC, VR, VG, TX+, TX-, and L-B.

Section 16: Includes inputs for SPD, DR, PKB, TC, and LP. It also shows connections for VOI+, VOI-, SLD1, MIC+, MIC-, ACC, +B, AUI+, AUI-, AUO-, AUO+, SPD, REV, GND, SNSE, R, G, B, SYNC, VR, VG, TX+, TX-, and L-B.

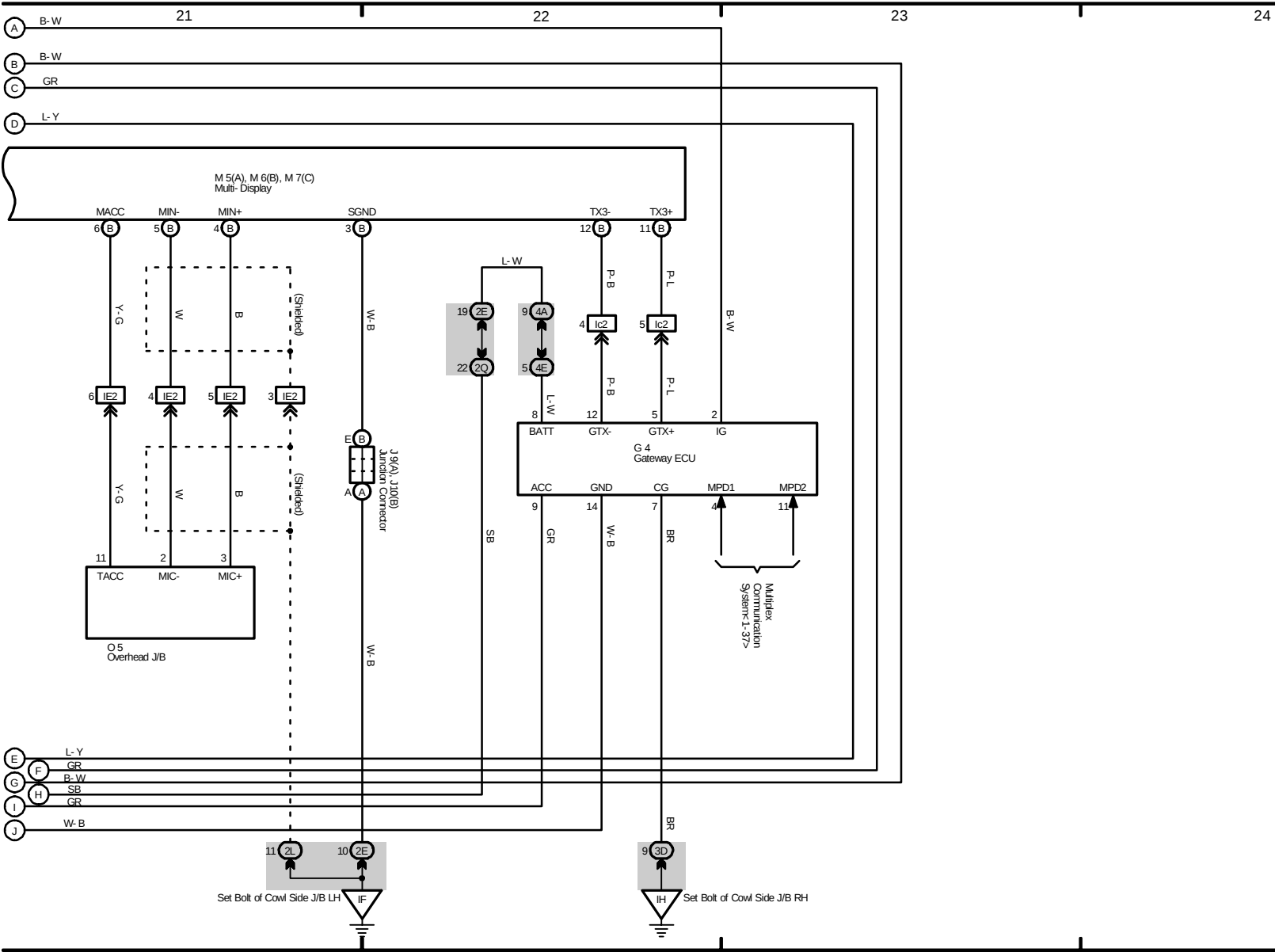
Legend: The legend on the right side of the diagram provides a color-coded key for the wiring. It includes a color-coded legend (A-D, E-F, G-H, I-K, L-N, O-Q) and a color-coded legend (A-D, E-F, G-H, I-K, L-N, O-Q).

Components: The diagram includes components such as the Multi-Display unit (M 5(A), M 6(B), M 7(C)), the Navigation ECU (N 2(A), N 3(B), N 4(C)), the T13 Tweeter LH, the F8 Front Door Speaker LH, and the BK (Front Side Under the Front Passenger's Seat).

Navigation System, TOYOTA Parking Assist (Rear View Monitor)



Navigation System, TOYOTA Parking Assist (Rear View Monitor)

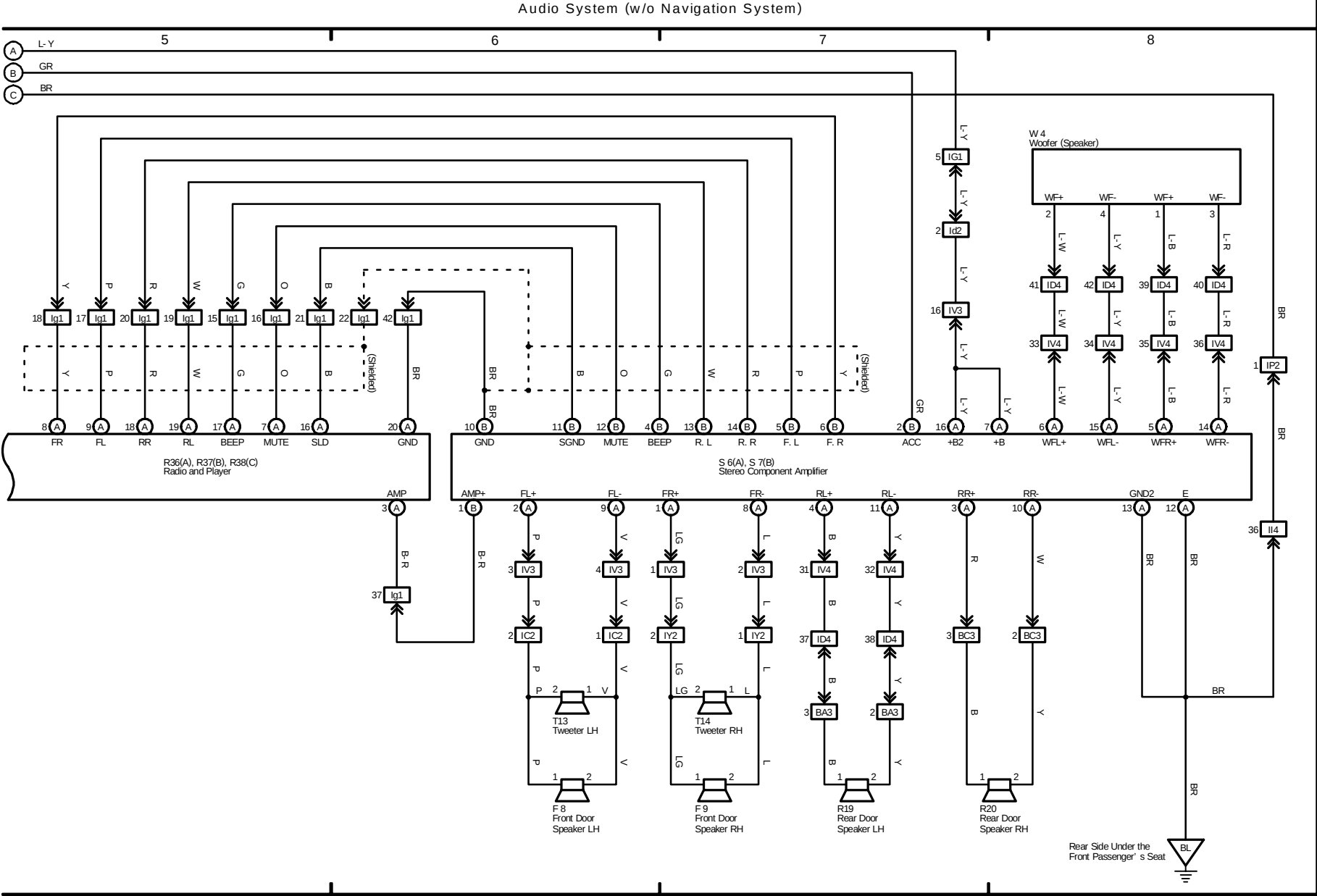


2005 LAND CRUISER (EWD601U)

27 LAND CRUISER

(Cont. next page)

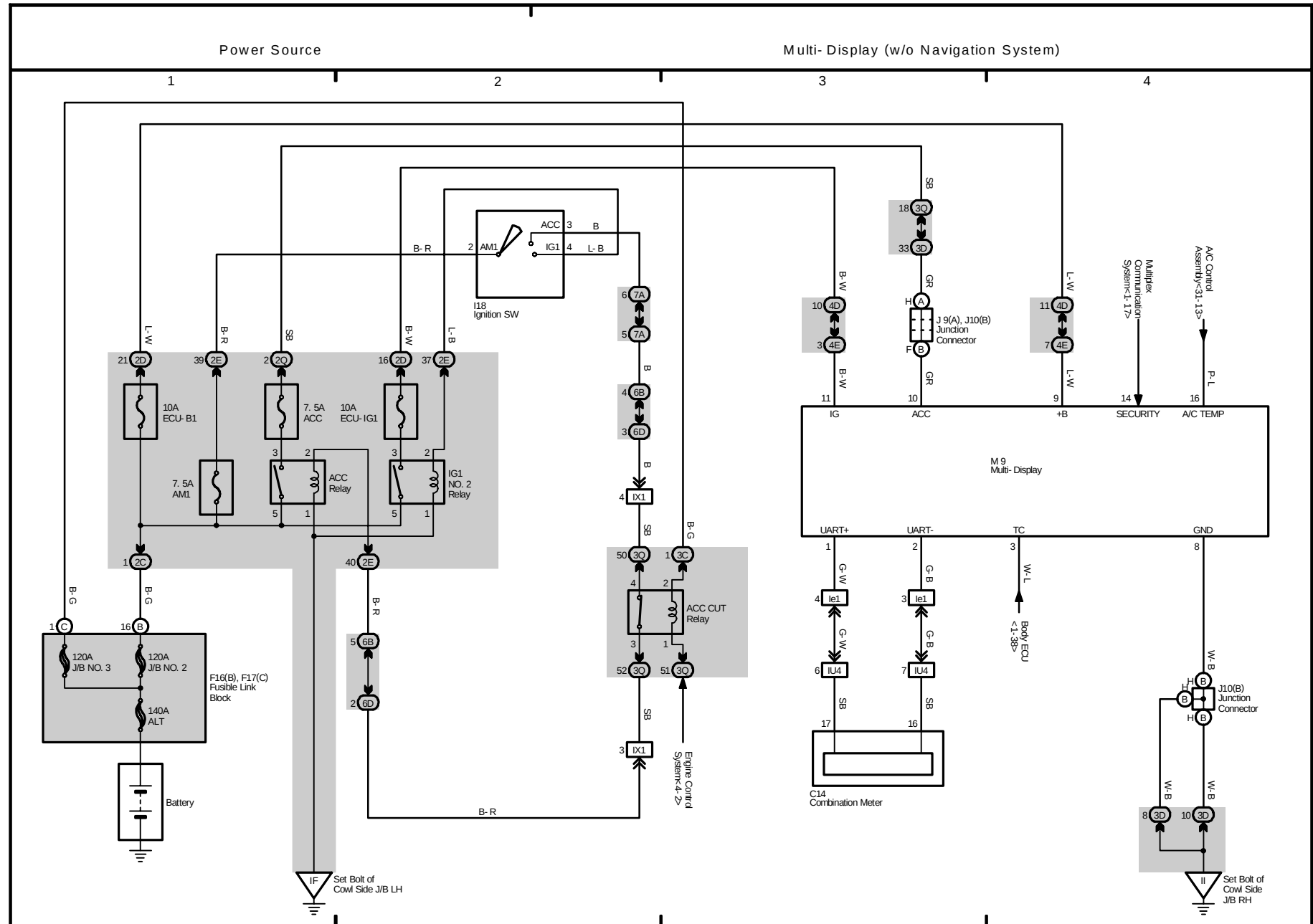




2005 LAND CRUISER (EWD601U)

28 LAND CRUISER

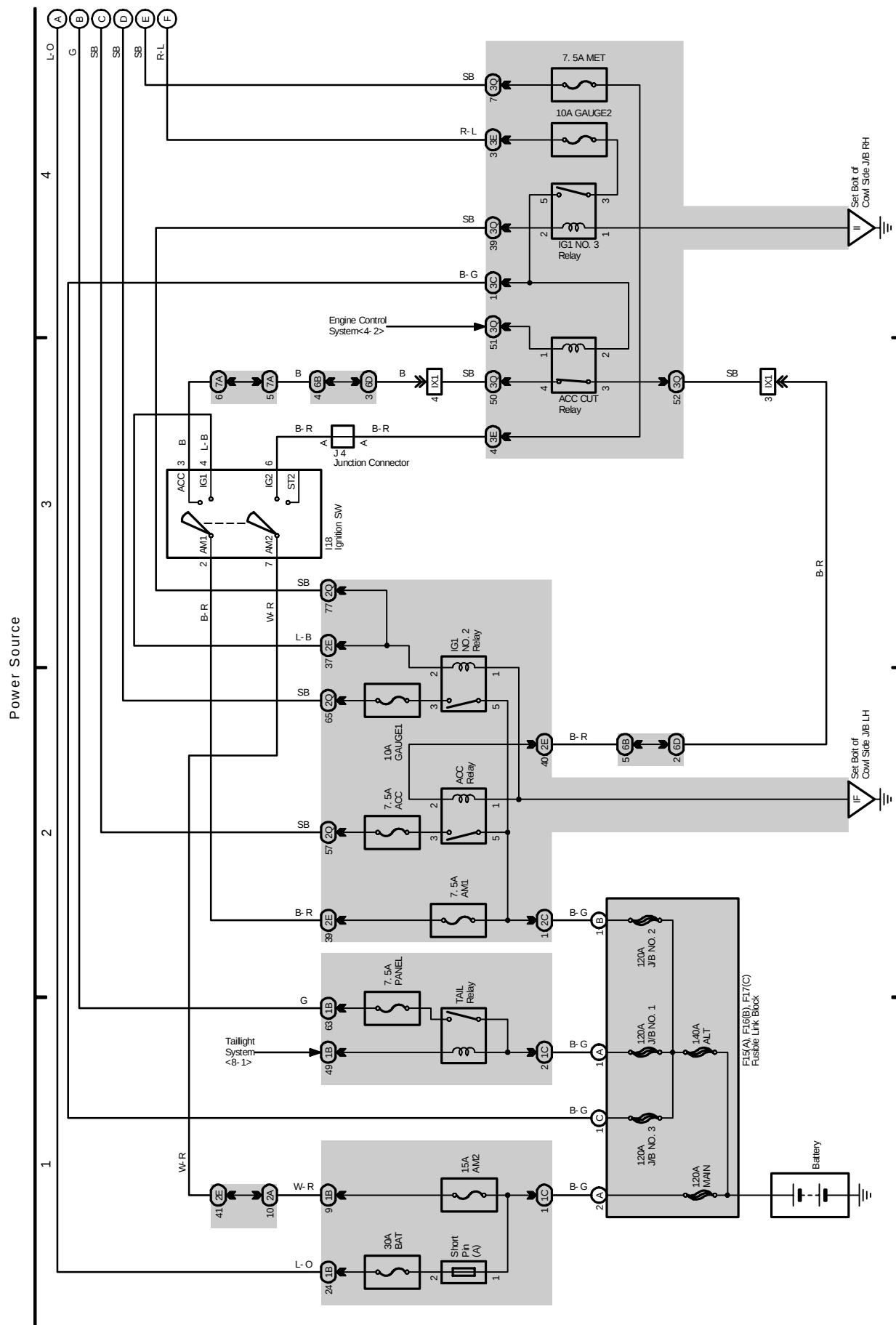




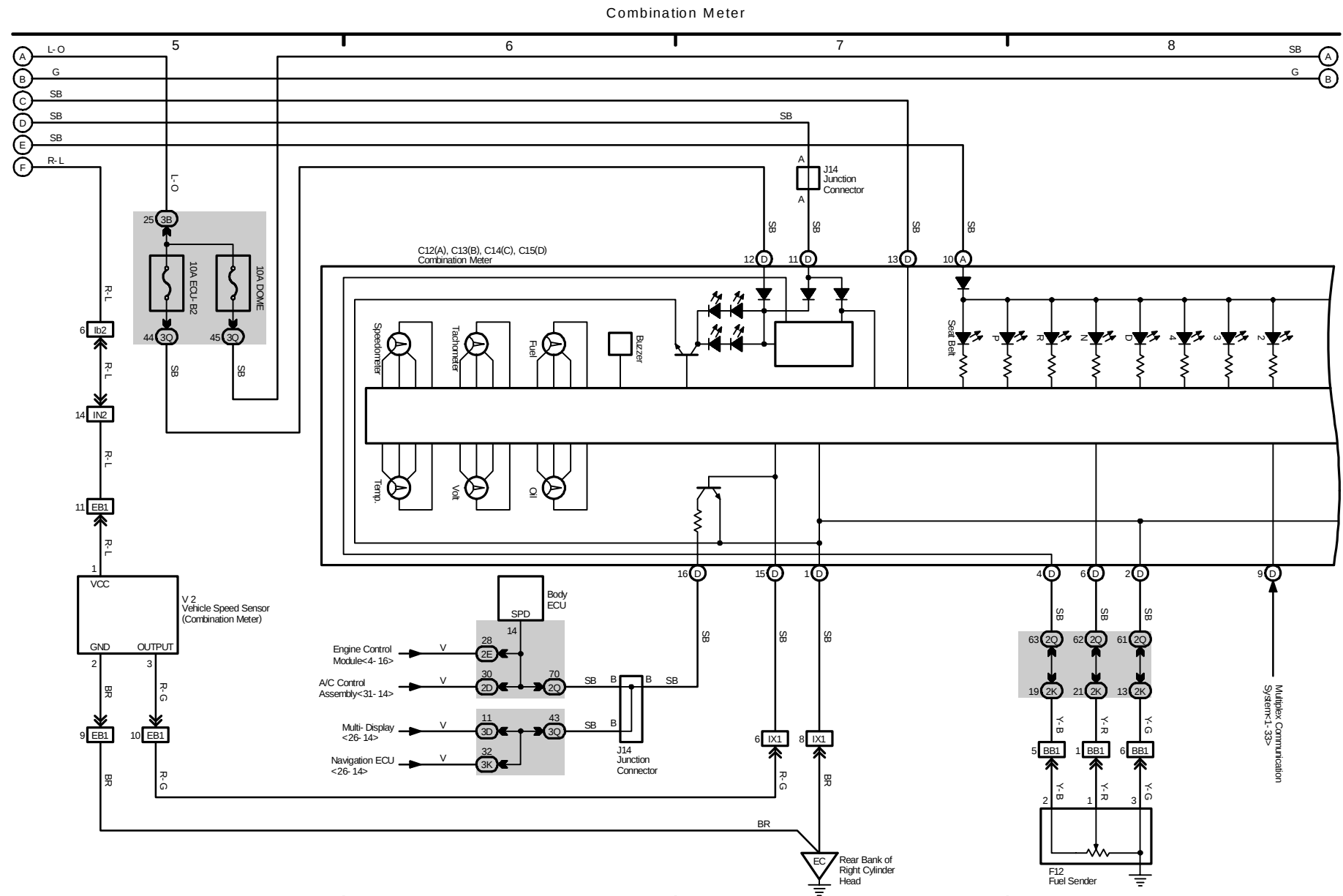
M OVERALL ELECTRICAL WIRING DIAGRAM

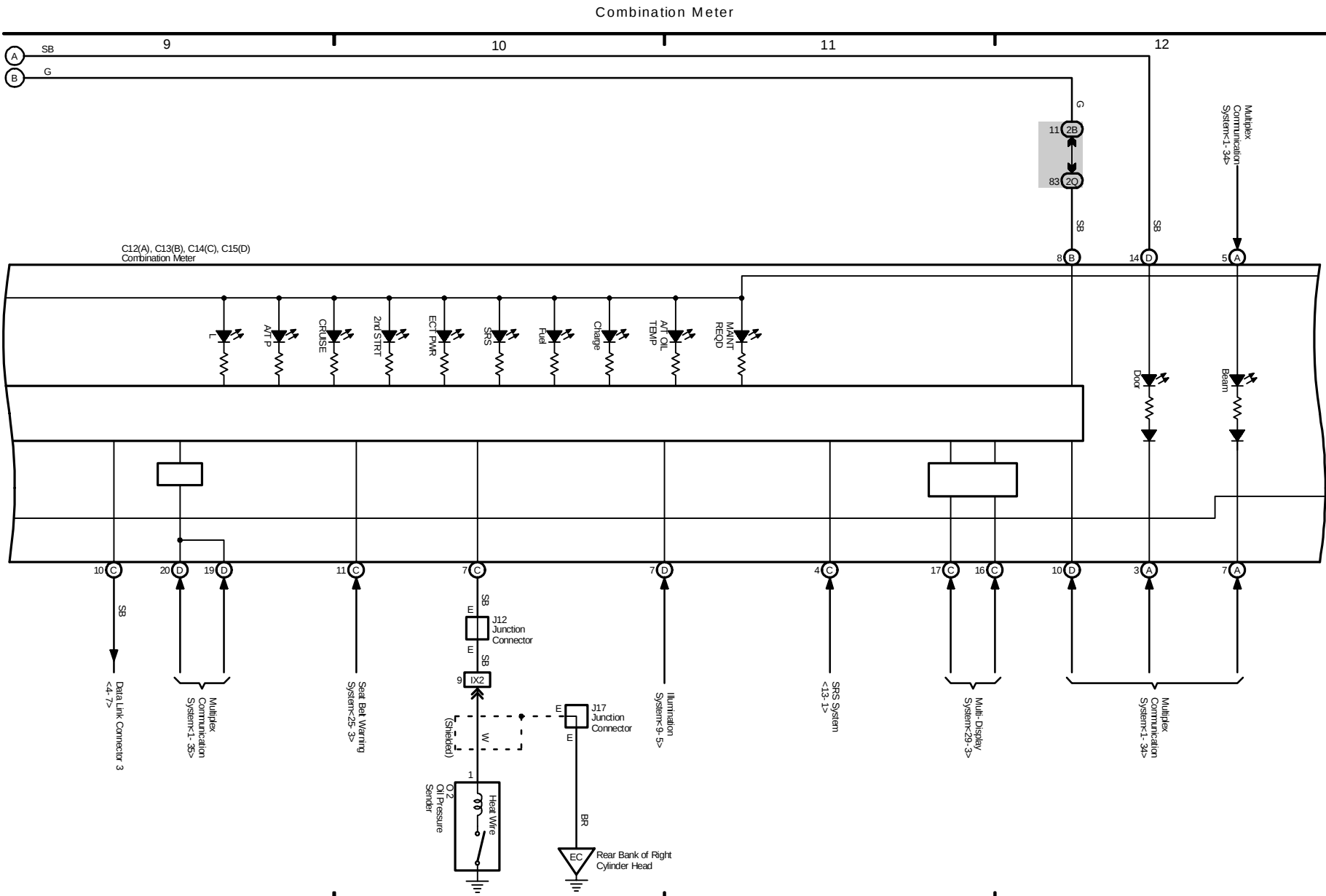
30 LAND CRUISER

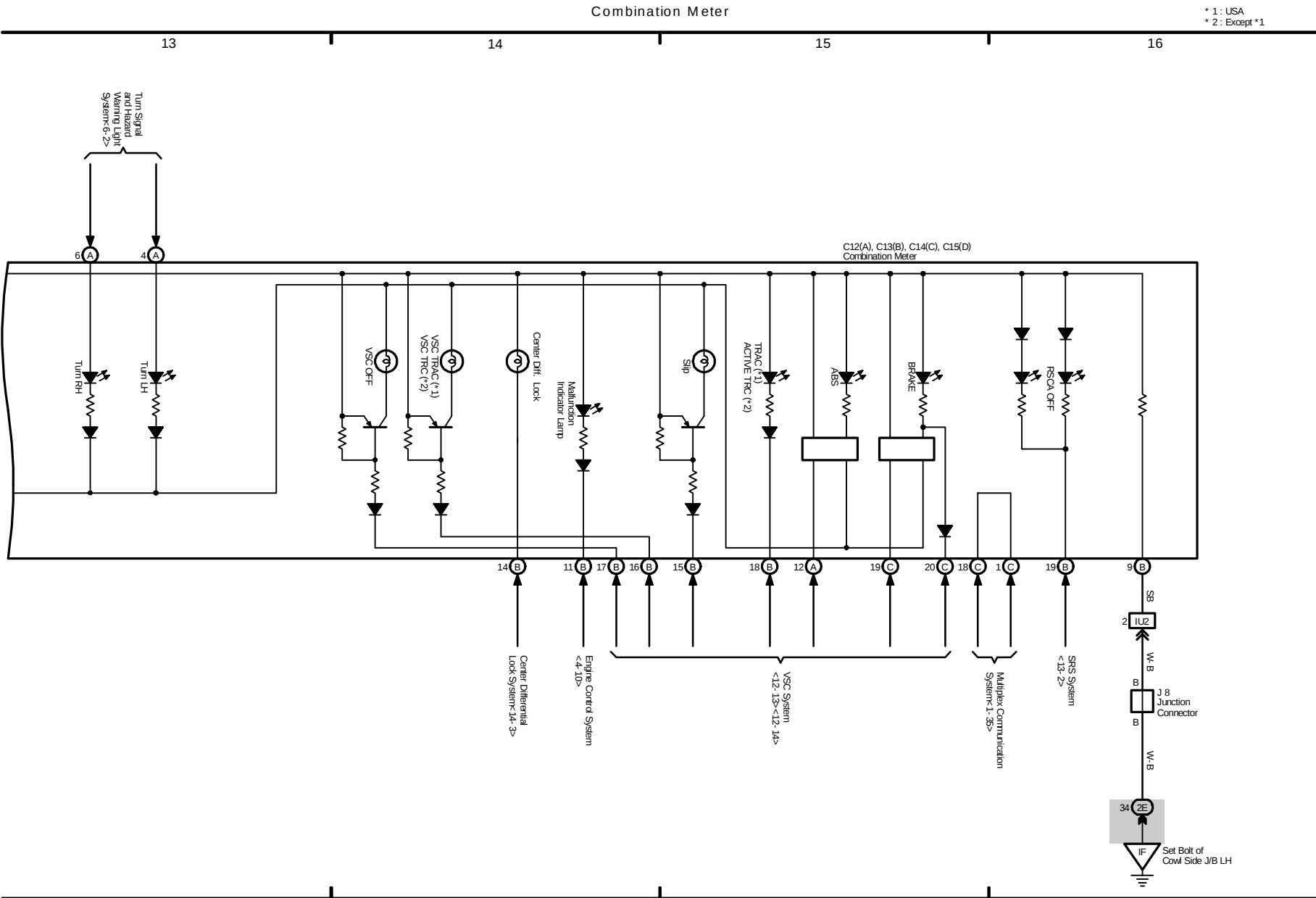
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2005 LAND CRUISER (EWD601U)





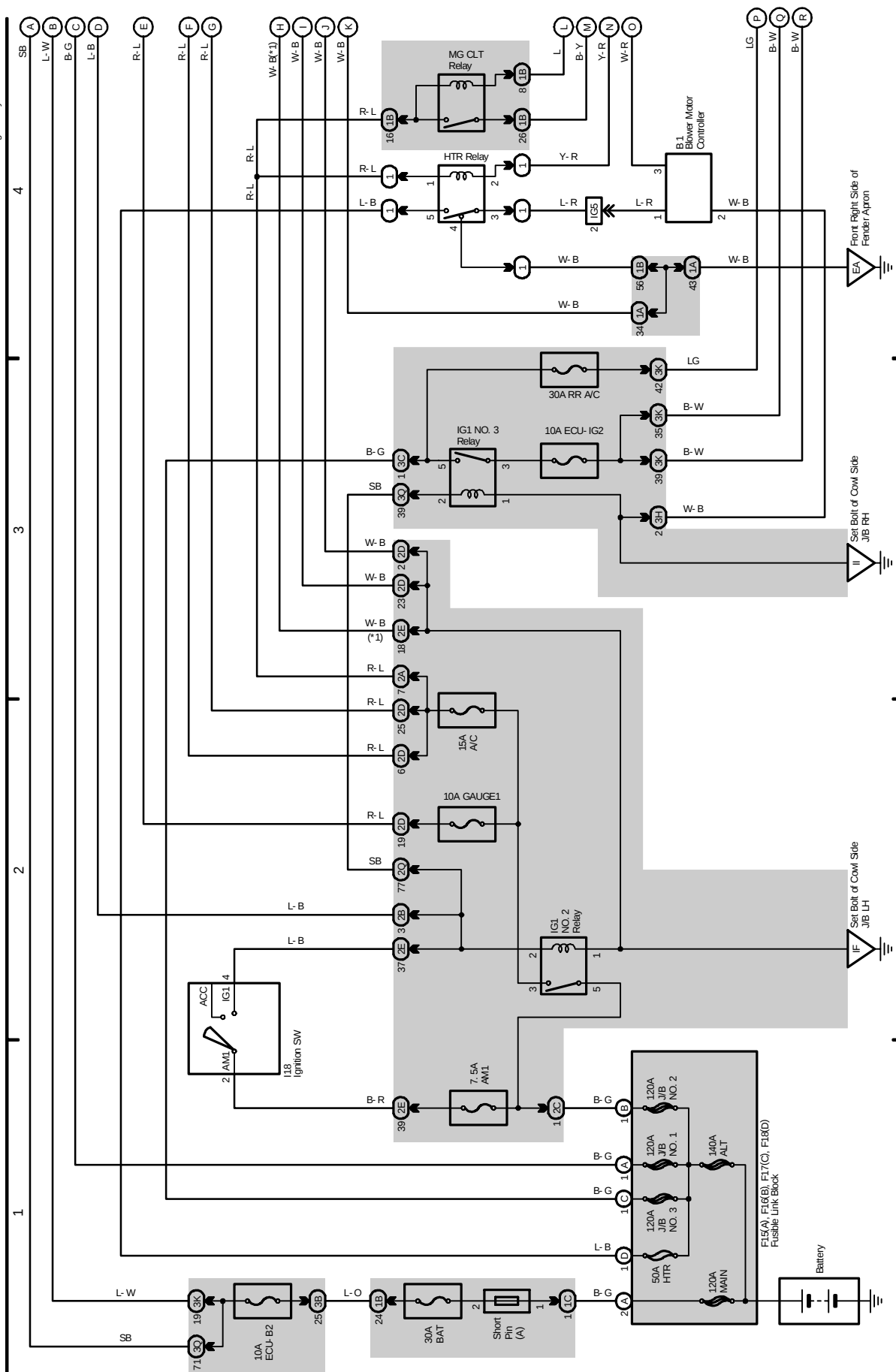


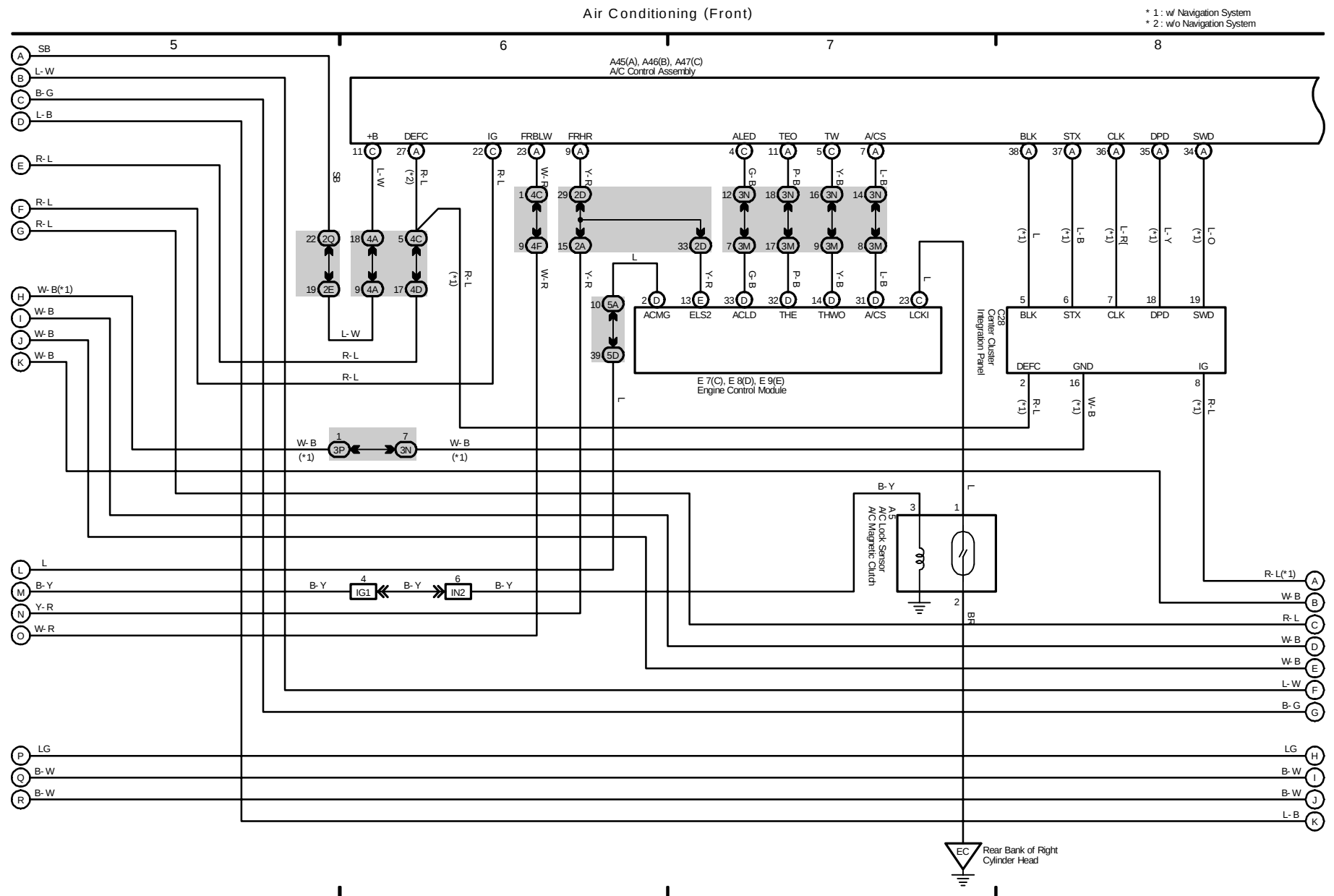
2005 LAND CRUISER (EWD601U)

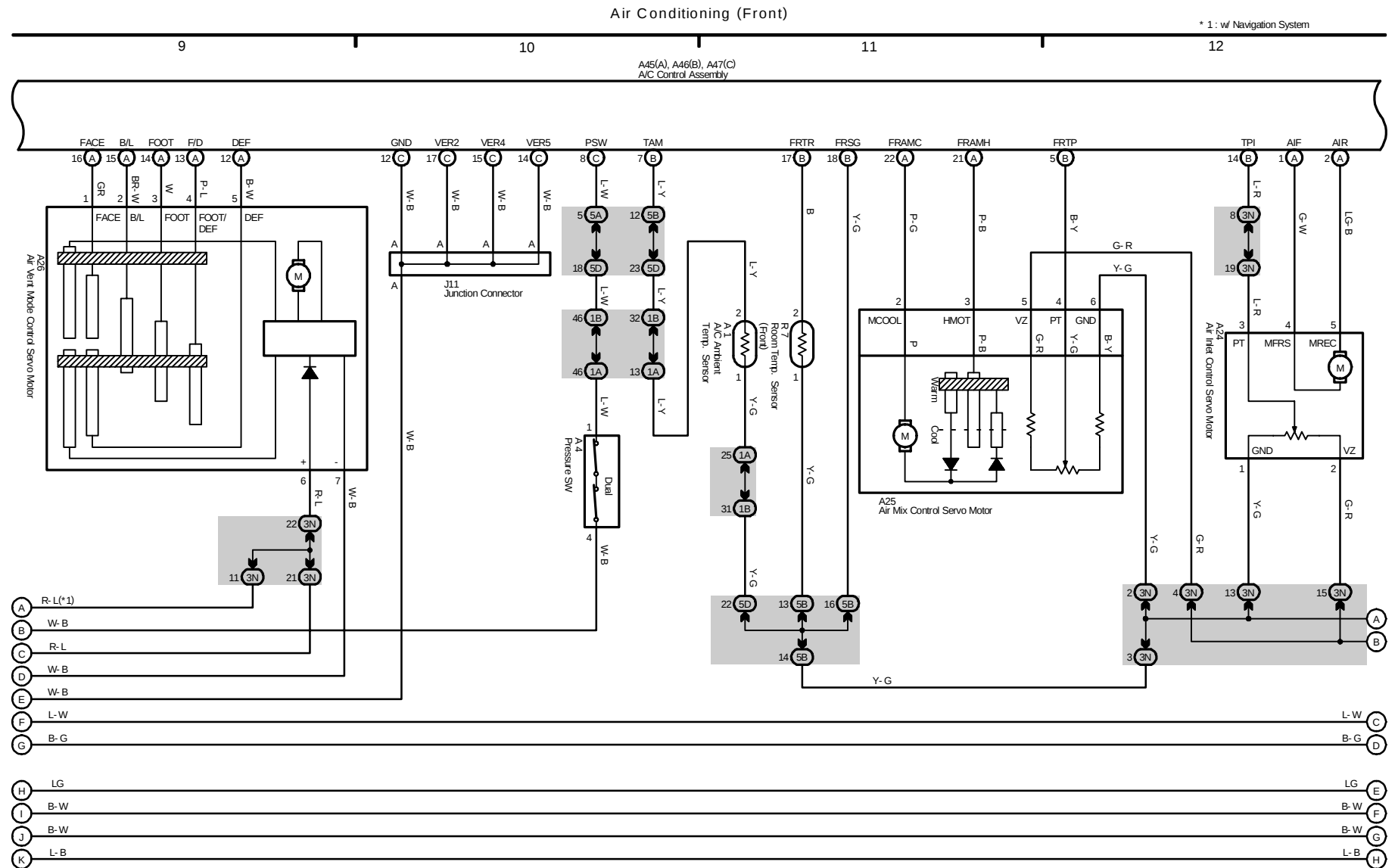
31 LAND CRUISER

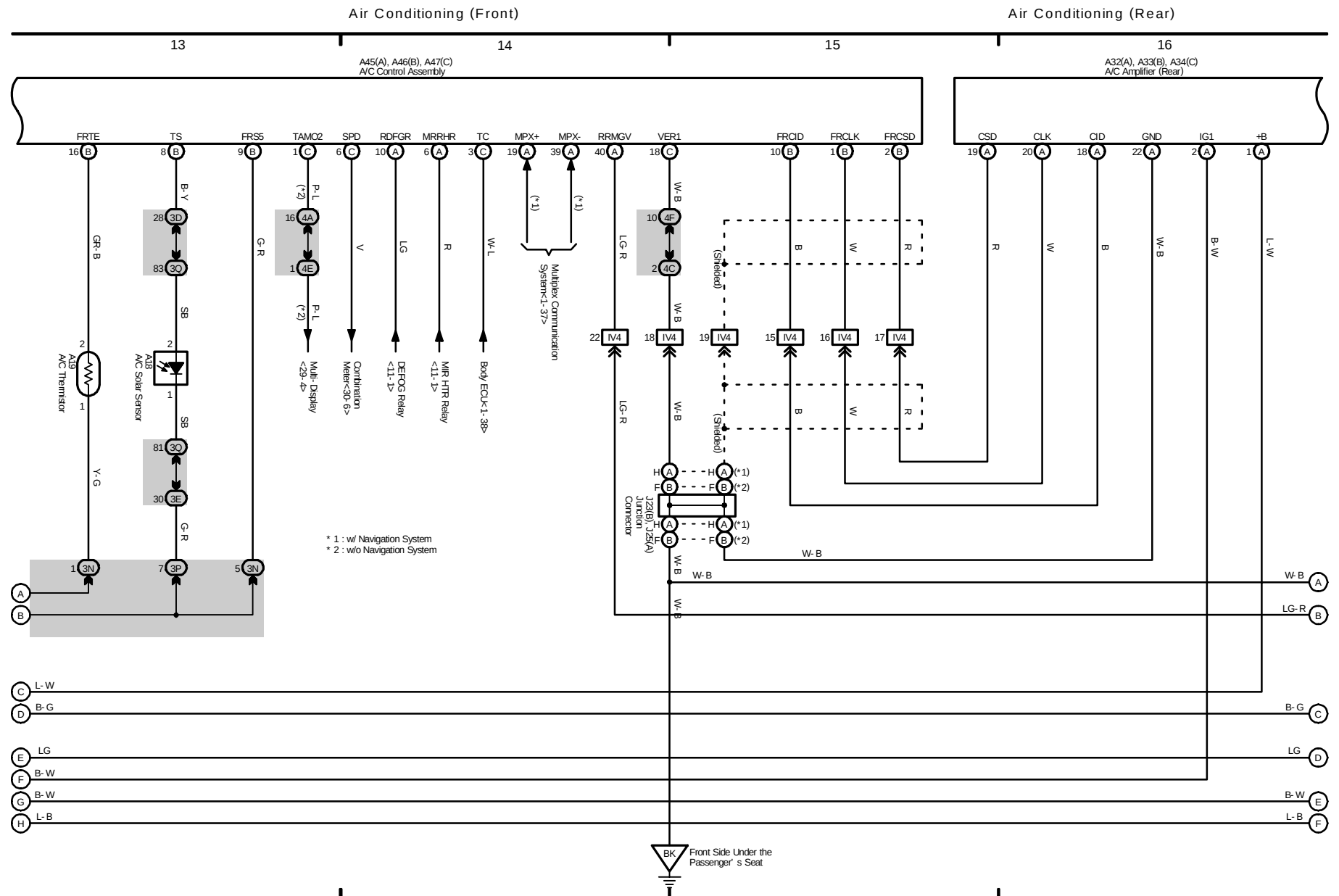
Power Source

* 1 : w/ Navigation System

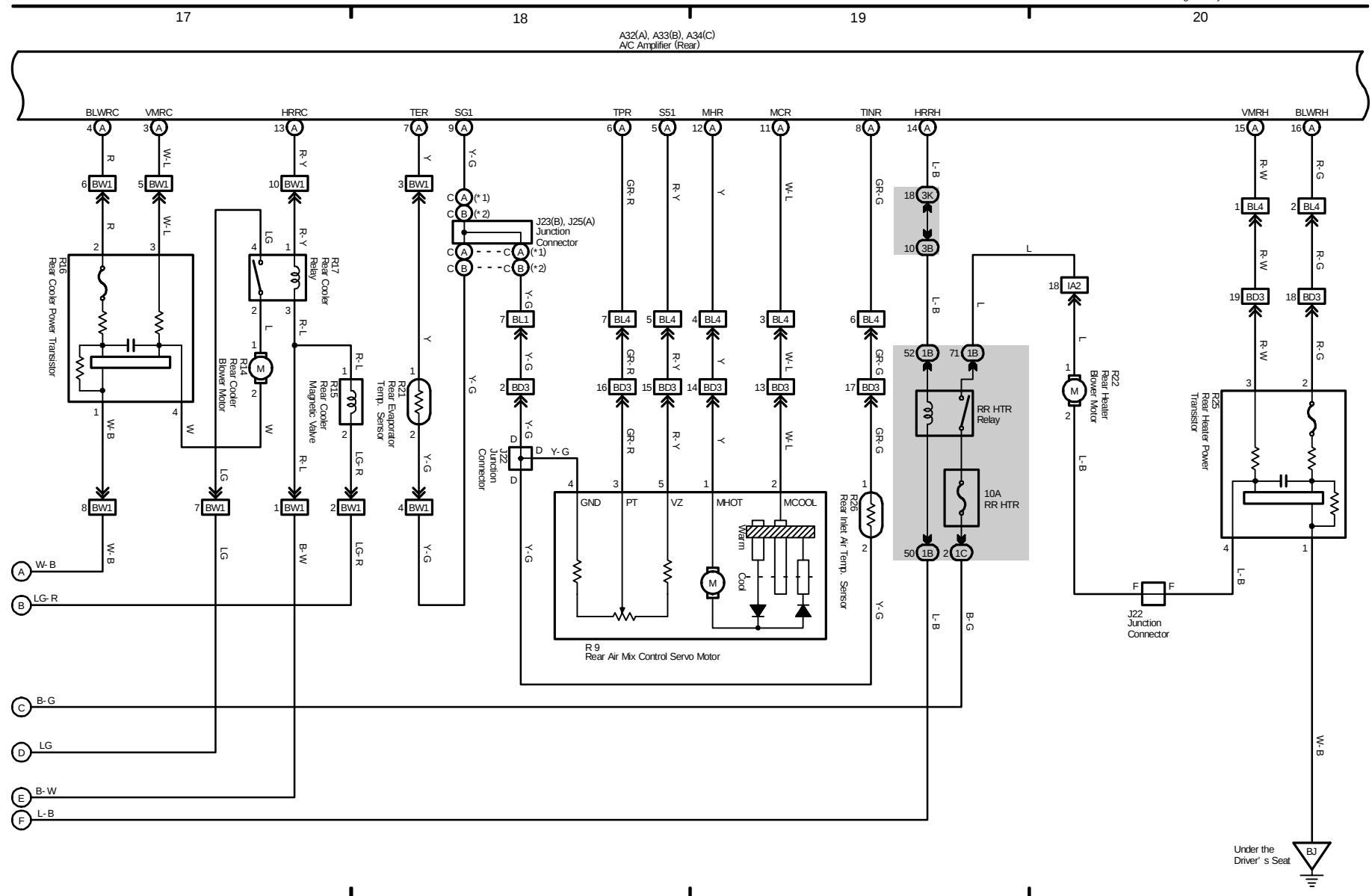


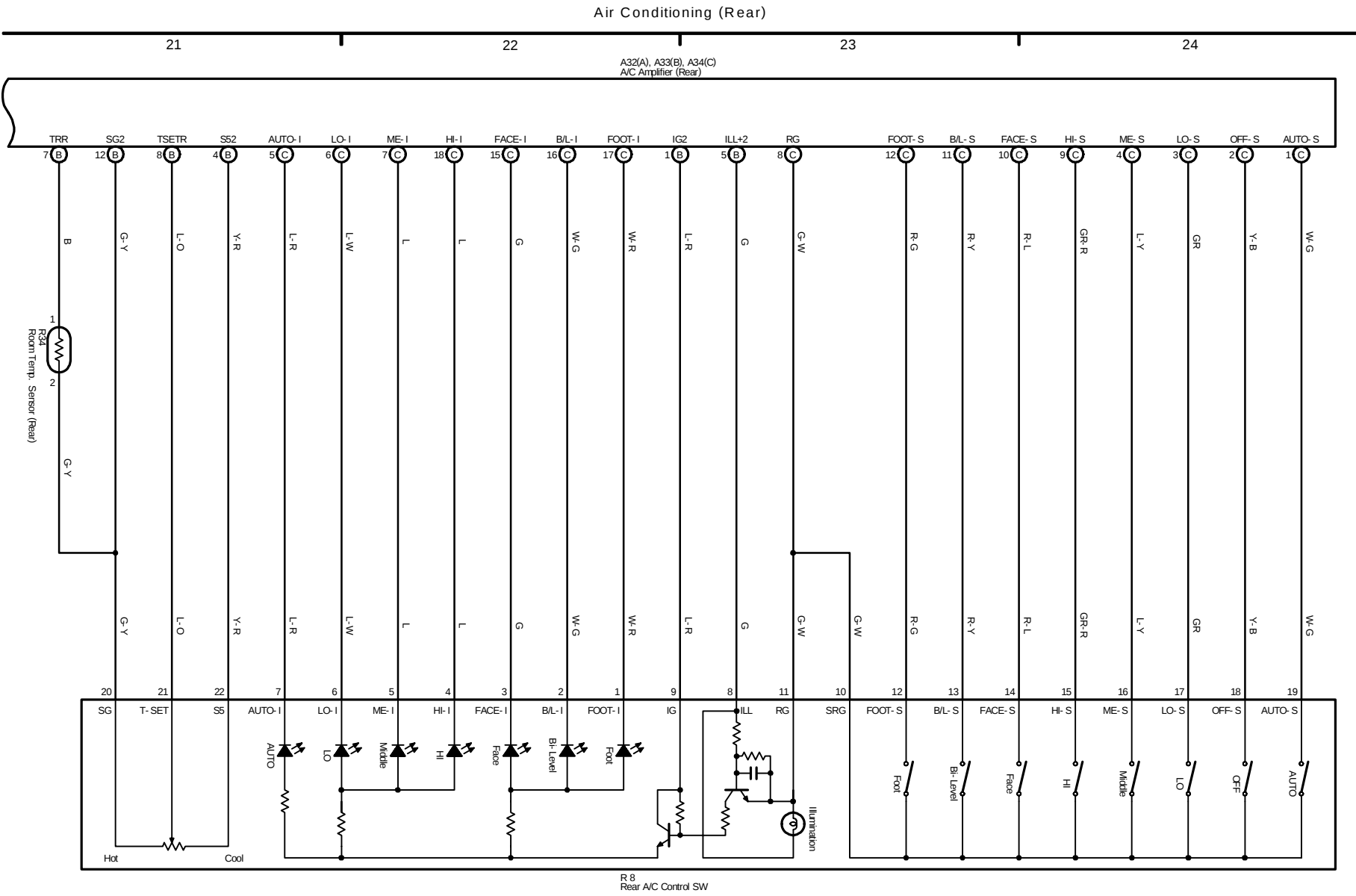






* 1 : w/ Navigation System
* 2 : w/o Navigation System

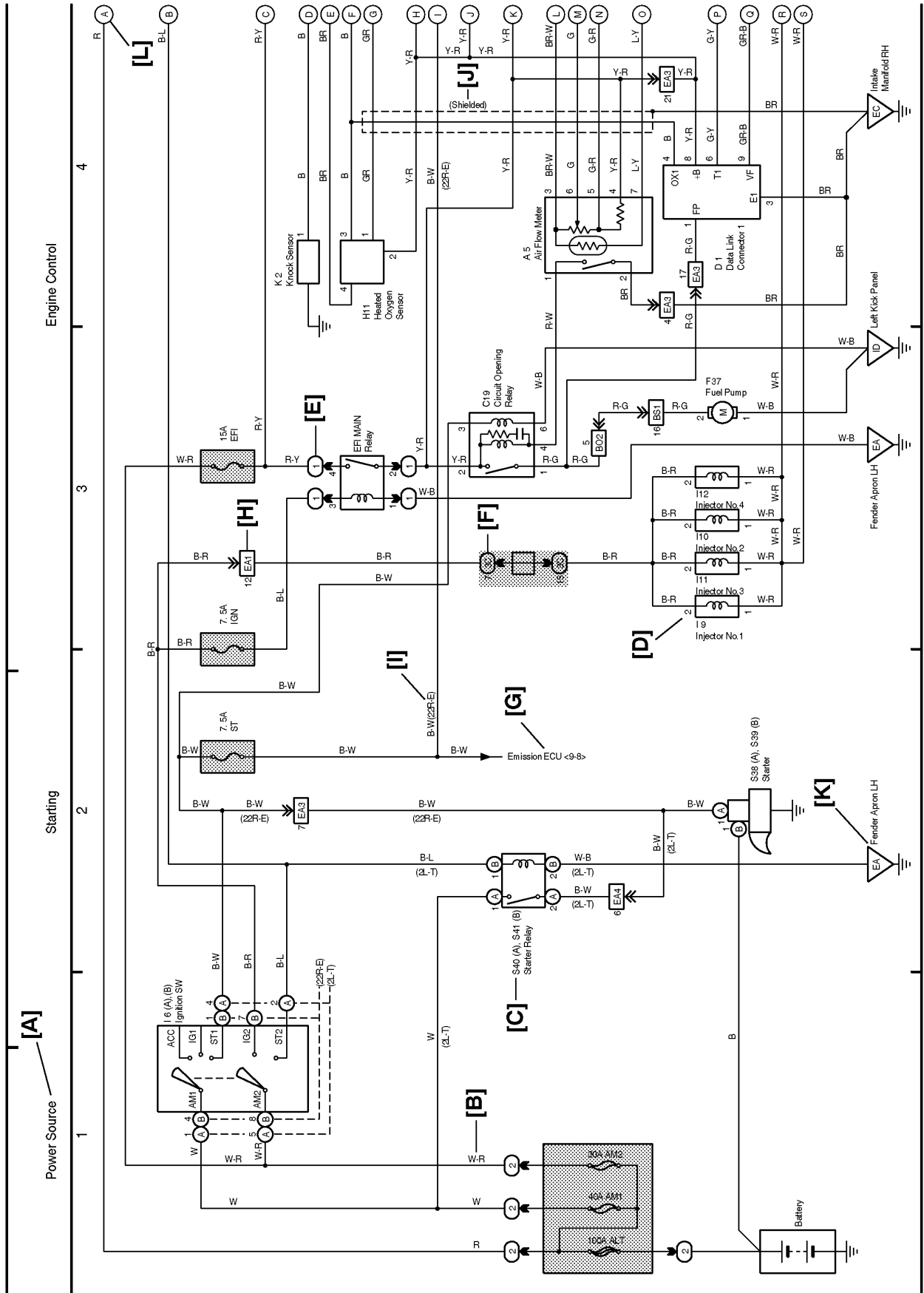




M OVERALL ELECTRICAL WIRING DIAGRAM

* 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

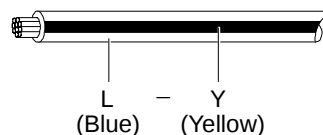
[B] : Indicates the wiring color.

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

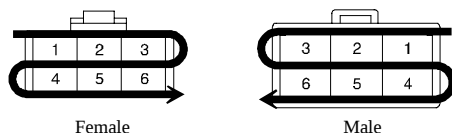


[C] : The position of the parts is the same as shown in the wiring diagram and wire routing.

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

Example : Numbered in order from upper left to lower right

Numbered in order from upper right to lower left



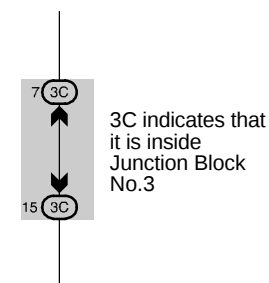
The numbering system for the overall wiring diagram is the same as above

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

Example : ① Indicates Relay Block No.1

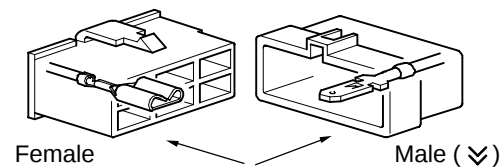
[F] : Junction Block (The number in the circle is the J/B No. and the connector code is shown beside it). Junction Blocks are shaded to clearly separate them from other parts.

Example:



[G] : Indicates related system.

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



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

[J] : Indicates a shielded cable.



[K] : Indicates and located on ground point.

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

SYSTEM INDEX

SYSTEMS	LOCATION	SYSTEMS	LOCATION
Air Conditioning (Front)	31-5	* Headlight	
Air Conditioning (Rear)	31-15	* Interior Light	
Audio System (w/ Navigation System)	26-5	* Key Reminder	
Audio System (w/o Navigation System)	27-3	* Light Auto Turn Off System	
Auto Antenna	28-3	* Power Window	
Automatic Glare-Resistant EC Mirror with Compass	15-3	* Theft Deterrent	
Back-Up Light	10-2	* Wireless Door Lock Control	
Center Differential Lock	14-3	Navigation System	26-12
Charging	2-4	Power Outlet	20-2
Cigarette Lighter	21-2	Power Rear Quarter Window	11-4
Combination Meter	30-5	Power Seat	22-2
Cruise Control	5-5	Power Source	1~31-1
Electronically Controlled Transmission and A/T Indicator	5-6	Power Tilt and Power Telescopic	23-2
Engine Control	4-4	Rear Window Defogger	11-2
Engine Immobilizer System	4-19	Rear Wiper and Washer	19-2
Front Wiper and Washer	18-2	Remote Control Mirror	16-2
Garage Door Opener	15-4	Seat Belt Warning	25-2
Horn	18-4	Seat Heater	21-3
Ignition	3-2	Shift Lock	24-3
Illumination	9-3	SRS	13-2
Mirror Heater	11-3	Starting	2-2
Moon Roof	17-2	Stop Light	10-3
Multi-Display (w/o Navigation System)	29-3	Taillight	8-2
Multiplex Communication System	1-5	TOYOTA Parking Assist (Rear View Monitor)	26-12
* Automatic Light Control		Trailer Towing	7-2
* Door Lock Control		Turn Signal and Hazard Warning Light	6-2
* Front Fog Light		VSC	12-4

L PART NUMBER OF CONNECTORS

Code	Part Name	Part Number	Code	Part Name	Part Number
A 1	A/C Ambient Temp. Sensor	90980-11070	B 7	Body ECU	90980-12151
A 4	Pressure SW	90980-10943	B 8	Body ECU	90980-12149
A 5	A/C Lock Sensor	90980-11016	B 9	Body ECU	90980-12150
	A/C Magnetic Clutch		C 1	Camshaft Position Sensor	90980-10947
A12	ABS Speed Sensor Front LH	90980-10941	C 2	Center Diff. Lock Control Motor	90980-11024
A13	ABS Speed Sensor Front RH	90980-11002	C 3	Crankshaft Position Sensor	90980-11162
A14	Accel Position Sensor	90980-11144	C 5	Center Diff. Lock Control Relay	90980-10801
A15	Airbag Sensor Front LH	90980-11856	C10	Cigarette Lighter	90980-10760
A16	Airbag Sensor Front RH		C11	Cigarette Lighter Illumination	90980-11148
A17	Auto Antenna Motor	90980-11194	C12	Combination Meter	82824-60060
A18	A/C Solar Sensor	90980-11919	C13	Combination Meter	82824-60050
A19	A/C Thermistor	90980-11918	C14	Combination Meter	82824-60060
A24	Air Inlet Control Servo Motor	90980-11909	C15	Combination Meter	82824-60050
A25	Air Mix Control Servo Motor	90980-10797	C16	Combination SW	90980-11672
A26	Air Vent Mode Control Servo Motor	90980-11165	C17	Combination SW	90980-12155
A27	Airbag Squib (Front Passenger Airbag Assembly)	90980-12160	C18	Combination SW	90980-12183
A28	Airbag Squib (Steering Wheel Pad)		C19	Combination SW	90980-11594
A29	Ashtray Illumination	90980-10825	C25	Center Airbag Sensor Assembly (w/ Side Airbag)	82824-50160
A30	Auto Antenna Control Relay	90980-10819		Center Airbag Sensor Assembly (w/o Side Airbag)	90980-11873
A31	Automatic Light Control Sensor	90980-12056	C26	Center Airbag Sensor Assembly	90980-11872
A32	A/C Amplifier (Rear)	90980-11502	C27	Center Airbag Sensor Assembly (w/ Side Airbag)	82824-50150
A33	A/C Amplifier (Rear)	90980-11475		Center Airbag Sensor Assembly (w/o Side Airbag)	90980-11871
A34	A/C Amplifier (Rear)	90980-11497	C28	Center Cluster Integration Panel	90980-12200
A35	ABS Speed Sensor Rear LH	90980-11073	C29	Curtain Shield Airbag Squib LH	90980-11864
A36	ABS Speed Sensor Rear RH		C30	Curtain Shield Airbag Squib RH	
A37	ABS & BA & TRAC & VSC Actuator	90980-11413	D 1	Data Link Connector 1	90980-11195
A38	ABS & BA & TRAC & VSC Actuator	90980-10895	D 2	Daytime Running Light Relay No.3	90980-10939
A39	ABS & BA & TRAC & VSC Actuator	90980-11151	D 3	Daytime Running Light Relay No.3	90980-10940
A40	ABS & BA & TRAC & VSC Actuator	90980-11009	D 4	Detection SW (Center Diff. Lock)	90980-11250
A41	ABS & BA & TRAC & VSC ECU	90980-11935	D 5	Detection SW (Transfer L Position)	
A42	ABS & BA & TRAC & VSC ECU	90980-11476	D 6	Detection SW (Transfer Neutral Position)	90980-11025
A43	ABS & BA & TRAC & VSC ECU	90980-11637	D 7	Data Link Connector 3	90980-11665
A44	ABS & BA & TRAC & VSC ECU	90980-11638	D10	Door Courtesy Light Front LH	90980-11148
A45	A/C Control Assembly	90980-12170	D11	Door Courtesy Light Front RH	
A46	A/C Control Assembly	90980-11913	D12	Door Courtesy Light Rear LH	
A47	A/C Control Assembly	90980-11927	D13	Door Courtesy Light Rear RH	90980-10871
A48	A/T Shift Lever Illumination	90980-11911	D14	Door Courtesy SW Front LH	
	Shift Lock Control ECU		D15	Door Courtesy SW Front RH	
B 1	Blower Motor Controller	90980-10910	D16	Door Courtesy SW Rear LH	90980-11170
B 2	Back Door Courtesy SW	90980-10039	D17	Door Courtesy SW Rear RH	
B 3	Back Door Key Lock and Unlock SW	90980-11490	D18	Door Key Lock and Unlock SW LH	90980-11170
B 4	Back Door Lock Motor	90980-11150	D19	Door Key Lock and Unlock SW RH	
	Back Door Unlock Detection SW		D20	Door Lock Control SW RH	90980-11950
B 5	Buckle SW LH	90980-11169			
B 6	Buckle SW 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
D21	Door Lock Motor Front LH	90980-11150	H 3	Headlight RH (High)	90980-11659
	Door Unlock Detection SW Front LH		H 4	Headlight RH (Low)	90980-11660
D22	Door Lock Motor Front RH		H 5	Heated Oxygen Sensor (Bank 1 Sensor 1)	90980-10869
	Door Unlock Detection SW Front RH		H 6	Heated Oxygen Sensor (Bank 1 Sensor 2)	90980-11028
D23	Door Lock Motor Rear LH		H 7	Heated Oxygen Sensor (Bank 2 Sensor 1)	90980-10869
	Door Unlock Detection SW Rear LH		H 8	Heated Oxygen Sensor (Bank 2 Sensor 2)	90980-11028
D24	Door Lock Motor Rear RH		H 9	Horn LH	90980-10619
	Door Unlock Detection SW Rear RH		H10	Horn RH	
D26	DVD Automatic Changer	90980-11971	H11	High Mounted Stop Light	90980-11211
D27	Door Control Receiver	90980-11909	I 1	Ignition Coil and Igniter No.1	90980-11885
E 1	Electronically Controlled Transmission Solenoid	90980-12293	I 2	Ignition Coil and Igniter No.2	
E 2	Engine Coolant Temp. Sensor	90980-10736	I 3	Ignition Coil and Igniter No.3	
E 3	Engine Hood Courtesy SW	90980-11003	I 4	Ignition Coil and Igniter No.4	
E 4	Electronically Controlled Transmission Pattern Select SW	90980-10933	I 5	Ignition Coil and Igniter No.5	
E 5	Engine Control Module	90980-12144	I 6	Ignition Coil and Igniter No.6	
E 6	Engine Control Module	90980-12145	I 7	Ignition Coil and Igniter No.7	
E 7	Engine Control Module	90980-12143	I 8	Ignition Coil and Igniter No.8	
E 8	Engine Control Module	90980-12146	I 9	Injector No.1	90980-11153
E 9	Engine Control Module	90980-12142	I10	Injector No.2	
F 1	Front Fog Light LH	90980-11660	I11	Injector No.3	
F 2	Front Fog Light RH		I12	Injector No.4	
F 3	Front Turn Signal Light LH	90980-11020	I13	Injector No.5	
	Side Marker Light LH		I14	Injector No.6	
F 4	Front Turn Signal Light RH		I15	Injector No.7	
	Side Marker Light RH		I16	Injector No.8	
F 5	Front Wiper Motor	90980-11599	I18	Ignition SW	90980-11615
F 8	Front Door Speaker LH	90980-10935	I22	Inner Mirror	90980-11186
F 9	Front Door Speaker RH		J 1	Junction Connector	90980-11398
F10	Front Interior Light	90980-12211	J 2	Junction Connector	90980-11915
	Rear Personal Light		J 3	Junction Connector	90980-11398
F11	Front Personal Light	90980-10825	J 4	Junction Connector	
F12	Fuel Pump	90980-11077	J 6	Junction Connector	90980-11927
	Fuel Sender		J 7	Junction Connector	
F14	Fuel Pump Resistor	90980-11156	J 8	Junction Connector	90980-10803
F15	Fusible Link Block	90980-11996	J 9	Junction Connector	90980-11927
F16	Fusible Link Block	90980-11881	J10	Junction Connector	
F17	Fusible Link Block	90980-11775	J11	Junction Connector	90980-10803
F18	Fusible Link Block	90980-10995	J12	Junction Connector	90980-11927
F19	Fusible Link Block	82675-60050	J13	Junction Connector	90980-11925
G 1	Generator	90980-11964	J14	Junction Connector	90980-11927
G 2	Generator	90980-09212	J15	Junction Connector	90980-11925
G 3	Glove Box Light	90980-11098	J16	Junction Connector	90980-11915
G 4	Gateway ECU	90980-11911	J17	Junction Connector	
H 1	Headlight LH (High)	90980-11659			
H 2	Headlight LH (Low)	90980-11660			

L PART NUMBER OF CONNECTORS

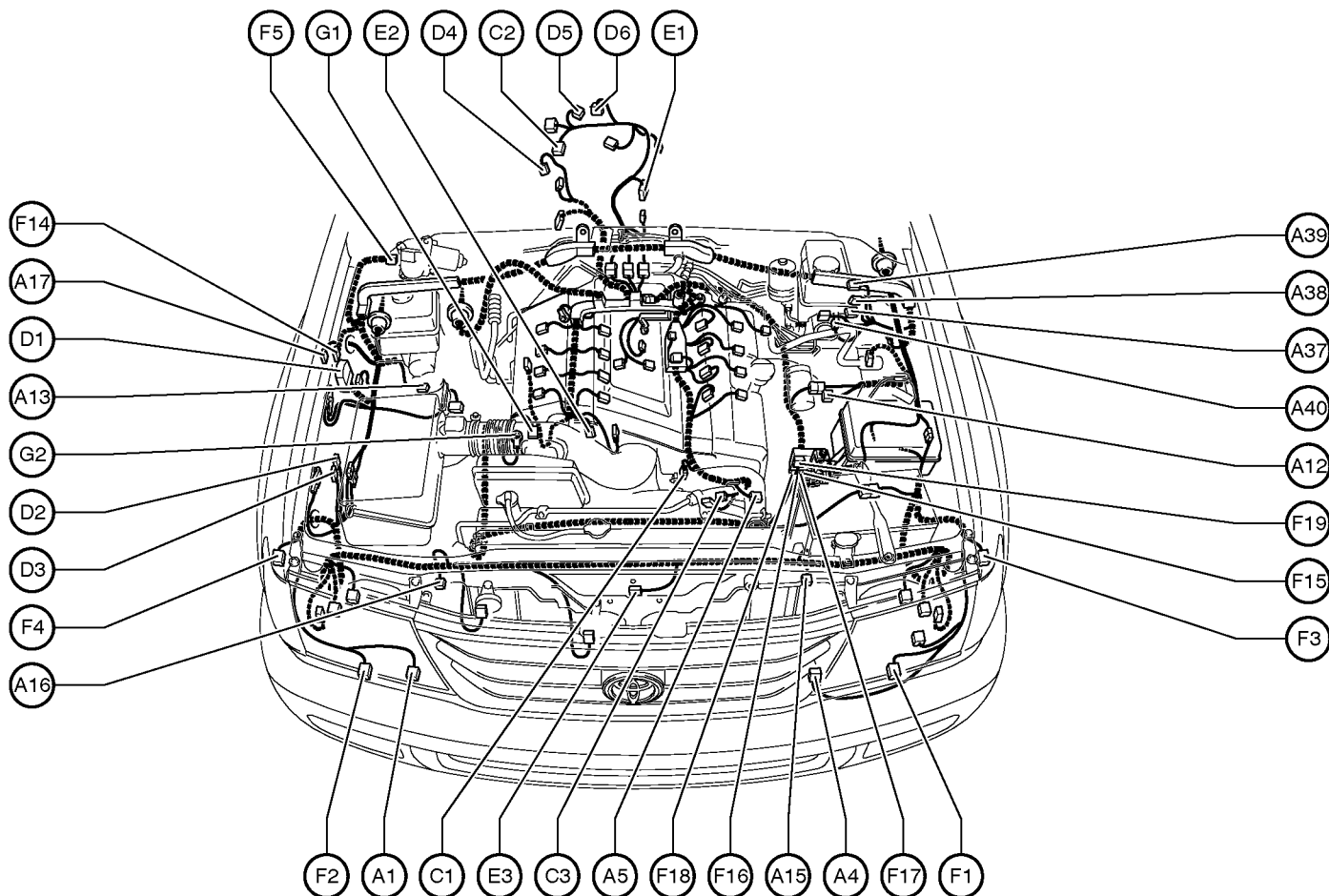
Code	Part Name	Part Number	Code	Part Name	Part Number
J18	Junction Connector	90980-11661	P18	Power Window Control SW Front RH	90980-11947
J19	Junction Connector		P19	Power Window Control SW Rear LH	
J20	Junction Connector		P20	Power Window Control SW Rear RH	
J21	Junction Connector		P21	Pretensioner LH	90980-11862
J22	Junction Connector	90980-11915	P22	Pretensioner RH	90980-10803
J23	Junction Connector		P23	Power Seat Control SW (Driver's Seat)	
J25	Junction Connector		P24	Power Seat Control SW (Front Passenger's Seat)	
J26	Junction Connector		P25	Power Seat Motor (Driver's Seat Front Vertical Control)	90980-10825
K 1	Knock Sensor (Bank 1)	90980-11166	P26	Power Seat Motor (Driver's Seat Lumbar Support Control)	
K 2	Knock Sensor (Bank 2)		P27	Power Seat Motor (Driver's Seat Rear Vertical Control)	
K 3	Key Interlock Solenoid	90980-10825	P28	Power Seat Motor (Driver's Seat Reclining Control)	
L 1	License Plate Light LH	90980-11148	P29	Power Seat Motor (Driver's Seat Slide Control)	
L 2	License Plate Light RH		P30	Power Seat Motor (Front Passenger's Seat Front Vertical Control)	
L 3	Lumbar Support Control SW (Driver's Seat)	90980-10601	P31	Power Seat Motor (Front Passenger's Seat Rear Vertical Control)	
L 4	Lumbar Support Control SW (Front Passenger's Seat)		P32	Power Seat Motor (Front Passenger's Seat Reclining Control)	
M 1	Mass Air Flow Meter	90980-11317	P33	Power Seat Motor (Front Passenger's Seat Slide Control)	
M 2	Moon Roof Control ECU	90980-10997	P34	Power Seat Motor (Front Passenger's Seat Lumbar Support Control)	
M 3	Moon Roof Control SW	90980-10789	R 5	Remote Control Mirror SW	90980-11657
M 4	Master Cylinder Pressure Sensor	90980-11451	R 6	Rheostat	90980-10799
M 5	Multi-Display	90980-12203	R 7	Room Temp. Sensor (Front)	90980-11918
M 6	Multi-Display	90980-12410	R 8	Rear A/C Control SW	90980-11503
M 7	Multi-Display	90980-12012	R 9	Rear Air Mix Control Servo Motor	90980-11319
M 9	Multi-Display	90980-12094	R10	Rear Combination Light LH	90980-11587
N 1	Noise Filter (Ignition)	90980-10843	R11	Rear Combination Light LH	90980-10908
N 2	Navigation ECU	90980-11973	R12	Rear Combination Light RH	
N 3	Navigation ECU	90980-11923	R13	Rear Combination Light RH	90980-11587
N 4	Navigation ECU	90980-12221	R14	Rear Cooler Blower Motor	90980-10214
O 2	Oil Pressure Sender	90980-11363	R15	Rear Cooler Magnetic Valve	90980-10860
O 5	Overhead J/B	90980-12155	R16	Rear Cooler Power Transistor	90980-10171
P 1	Park/Neutral Position SW	90980-11784	R17	Rear Cooler Relay	
P 2	Parking Light LH	90980-11156	R19	Rear Door Speaker LH	90980-10935
P 3	Parking Light RH		R20	Rear Door Speaker RH	
P 4	Power Outlet (Front)	90980-10760	R21	Rear Evaporator Temp. Sensor	90980-11918
P 5	Power Outlet (Rear Console Box)	90980-10860	R22	Rear Heater Blower Motor	90980-10860
P 6	Power Quarter Window SW LH	90980-10797	R25	Rear Heater Power Transistor	90980-10171
P 7	Power Quarter Window SW RH	90980-10996	R26	Rear Inlet Air Temp. Sensor	90980-11369
P 8	Parking Brake SW	90980-10871	R27	Rear Interior Light	90980-10935
P 9	Power Outlet (Luggage Compartment)	90980-10860			
P10	Power Vent Window Motor LH				
P11	Power Vent Window Motor RH				
P12	Power Window Master SW	90980-12166			
P14	Power Window Motor Front LH	90980-11599			
P15	Power Window Motor Front RH				
P16	Power Window Motor Rear LH				
P17	Power Window Motor Rear 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
R28	Rear Window Defogger	90980-11097	T 5	Theft Deterrent ECU	90980-12169
R29	Rear Window Defogger		T 7	Tilt and Telescopic ECU	90980-10799
R30	Rear Wiper Motor	90980-10795	T 8	Tilt and Telescopic ECU	90980-10848
R31	Rear Wiper Relay	90980-10797	T 9	Tilt Motor	90980-10799
R32	Remote Control Mirror LH	90980-11573	T10	Ignition Key Cylinder Light	90980-12092
R33	Remote Control Mirror RH			Transponder Key Amplifier	
R34	Room Temp. Sensor (Rear)	90980-11918	T11	Turn Signal Flasher	90980-10799
R36	Radio and Player	90980-12038	T12	Trailer Socket	82824-34030
R37	Radio and Player	90980-12183	T13	Tweeter LH	90980-11300
R38	Radio and Player	90980-12259	T14	Tweeter RH	
R39	Rear Seat Audio Controller	90980-12200	T15	Towing Converter Relay	90980-11535
R40	Roll Sensing of Curtain Shield Airbags Cutoff SW	90980-10957	T16	Throttle Control Motor and Sensor	90980-11858
S 1	Starter	90980-11400	T17	Turbine Speed Sensor	90980-11156
S 2	Starter	90980-09585	T18	Towing Brake Controller	90980-11603
S 3	Seat Heater SW (Driver's Seat)	90980-10797	T19	Transponder Key Computer	90980-11911
S 4	Seat Heater SW (Front Passenger's Seat)	90980-10996	T20	Television Camera	90980-12381
S 5	Stop Light SW	90980-11118	T21	Television Camera ECU	90980-12169
S 6	Stereo Component Amplifier	90980-10848	T22	Television Camera ECU	90980-10997
S 7	Stereo Component Amplifier	90980-10807	T23	Towing Hitch Relay	82660-20340
S 8	Seat Belt Warning Occupant Detection Sensor	90980-10860	U 1	Unlock Warning SW	90980-10860
S 9	Seat Heater (Driver's Seat)	90980-10907	V 1	Vapor Pressure Sensor	90980-11143
S10	Seat Heater (Front Passenger's Seat)		V 2	Vehicle Speed Sensor (Combination Meter)	
S11	Side Airbag Sensor Front LH	90980-12225	V 3	Vehicle Speed Sensor (Electronically Controlled Transmission)	90980-11156
S12	Side Airbag Sensor Front RH		V 4	VSV (EVAP)	
S13	Side Airbag Sensor Rear LH		V 6	Vanity Light LH	90980-11918
S14	Side Airbag Sensor Rear RH		V 7	Vanity Light RH	
S15	Seat Heater (Driver's Seat Cushion)	90980-10794	V 8	VSC Warning Buzzer	90980-10906
S16	Seat Heater (Front Passenger's Seat Cushion)		V 9	VSV (Canister Closed Valve)	90980-11162
S17	Seat Position Sensor	90980-12195	V10	VSV (Pressure Switching Valve)	90980-11859
S18	Side Airbag Squib LH	90980-11864	W 1	Washer Motor	90980-11294
S19	Side Airbag Squib RH		W 4	Woofers (Speaker)	90980-10795
T 1	Theft Deterrent Horn	90980-10619	Y 1	Yaw Rate Sensor	90980-12080
T 4	Telescopic Motor	90980-10799	Z 1	Option Connector (Glass Breakage Sensor)	90980-10825

G ELECTRICAL WIRING ROUTING

Position of Parts in Engine Compartment



A 1 A/C Ambient Temp. Sensor

A 4 Pressure SW

A 5 A/C Lock Sensor

A/C Magnetic Clutch

A12 ABS Speed Sensor Front LH

A13 ABS Speed Sensor Front RH

A15 Airbag Sensor Front LH

A16 Airbag Sensor Front RH

A17 Auto Antenna Motor

A37 ABS & BA & TRAC & VSC Actuator

A38 ABS & BA & TRAC & VSC Actuator

A39 ABS & BA & TRAC & VSC Actuator

A40 ABS & BA & TRAC & VSC Actuator

C 1 Camshaft Position Sensor

C 2 Center Diff. Lock Control Motor

C 3 Crankshaft Position Sensor

D 1 Data Link Connector 1

D 2 Daytime Running Light Relay No.3

D 3 Daytime Running Light Relay No.3

D 4 Detection SW (Center Diff. Lock)

D 5 Detection SW (Transfer L Position)

D 6 Detection SW (Transfer Neutral Position)

E 1 Electronically Controlled Transmission Solenoid

E 2 Engine Coolant Temp. Sensor

E 3 Engine Hood Courtesy SW

F 1 Front Fog Light LH

F 2 Front Fog Light RH

F 3 Front Turn Signal Light LH

Side Marker Light LH

F 4 Front Turn Signal Light RH

Side Marker Light RH

F 5 Front Wiper Motor

F14 Fuel Pump Resistor

F15 Fusible Link Block

F16 Fusible Link Block

F17 Fusible Link Block

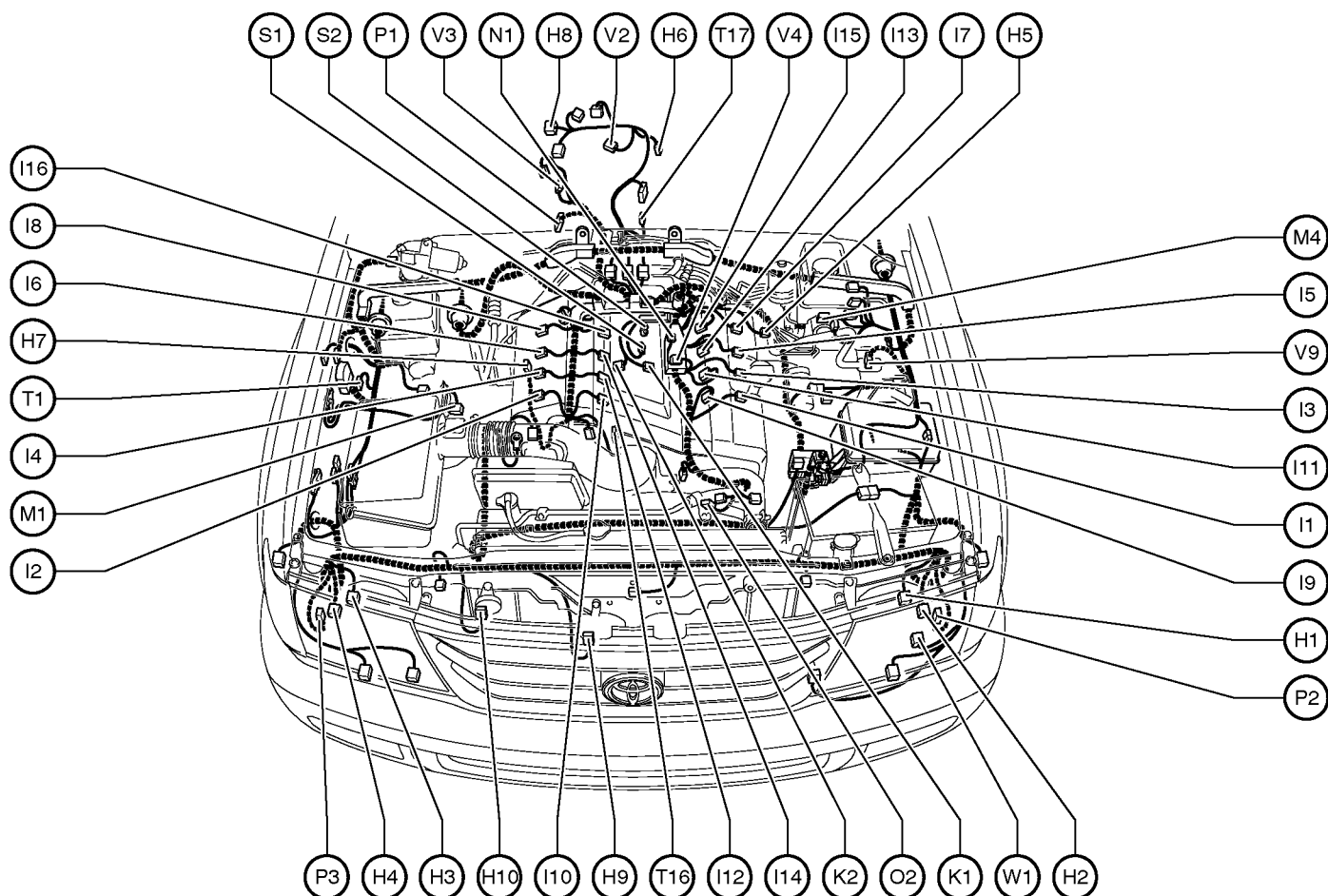
F18 Fusible Link Block

F19 Fusible Link Block

G 1 Generator

G 2 Generator

Position of Parts in Engine Compartment



H 1 Headlight LH (High)
 H 2 Headlight LH (Low)
 H 3 Headlight RH (High)
 H 4 Headlight RH (Low)
 H 5 Heated Oxygen Sensor (Bank 1 Sensor 1)
 H 6 Heated Oxygen Sensor (Bank 1 Sensor 2)
 H 7 Heated Oxygen Sensor (Bank 2 Sensor 1)
 H 8 Heated Oxygen Sensor (Bank 2 Sensor 2)
 H 9 Horn LH
 H10 Horn RH

I 1 Ignition Coil and Igniter No.1
 I 2 Ignition Coil and Igniter No.2
 I 3 Ignition Coil and Igniter No.3
 I 4 Ignition Coil and Igniter No.4
 I 5 Ignition Coil and Igniter No.5
 I 6 Ignition Coil and Igniter No.6
 I 7 Ignition Coil and Igniter No.7
 I 8 Ignition Coil and Igniter No.8
 I 9 Injector No.1
 I 10 Injector No.2
 I 11 Injector No.3
 I 12 Injector No.4
 I 13 Injector No.5
 I 14 Injector No.6
 I 15 Injector No.7
 I 16 Injector No.8

K 1 Knock Sensor (Bank 1)
 K 2 Knock Sensor (Bank 2)

M 1 Mass Air Flow Meter
 M 4 Master Cylinder Pressure Sensor

N 1 Noise Filter (Ignition)

O 2 Oil Pressure Sender

P 1 Park/Neutral Position SW

P 2 Parking Light LH

P 3 Parking Light RH

S 1 Starter

S 2 Starter

T 1 Theft Deterrent Horn

T 16 Throttle Control Motor and Sensor

T 17 Turbine Speed Sensor

V 2 Vehicle Speed Sensor (Combination Meter)
 V 3 Vehicle Speed Sensor
 (Electronically Controlled Transmission)

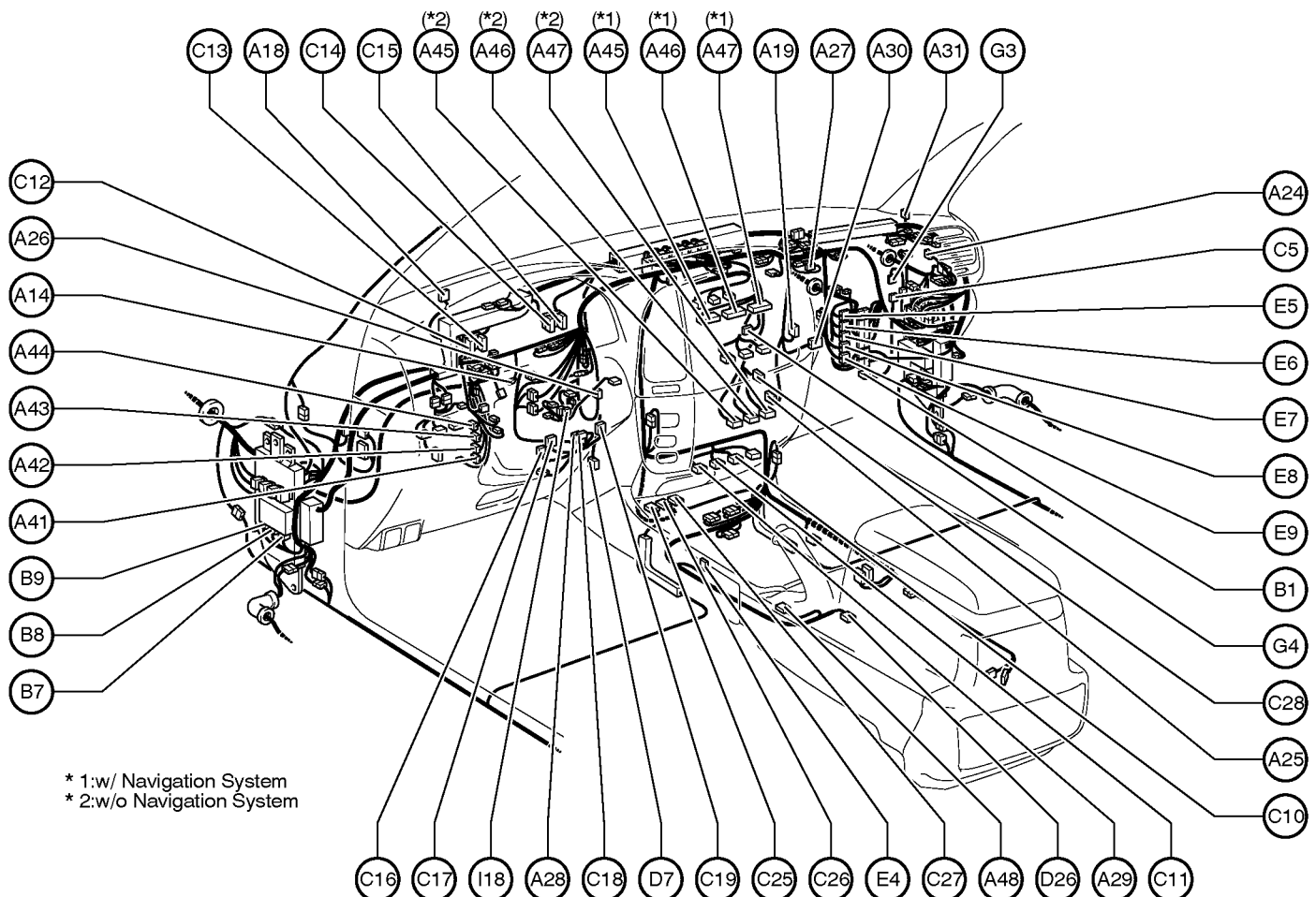
V 4 VSV (EVAP)

V 9 VSV (Canister Closed Valve)

W 1 Washer Motor

G ELECTRICAL WIRING ROUTING

Position of Parts in Instrument Panel



A14 Accel Position Sensor
A18 A/C Solar Sensor
A19 A/C Thermistor
A24 Air Inlet Control Servo Motor
A25 Air Mix Control Servo Motor
A26 Air Vent Mode Control Servo Motor
A27 Airbag Squib (Front Passenger Airbag Assembly)
A28 Airbag Squib (Steering Wheel Pad)
A29 Ashtray Illumination
A30 Auto Antenna Control Relay
A31 Automatic Light Control Sensor
A41 ABS & BA & TRAC & VSC ECU
A42 ABS & BA & TRAC & VSC ECU
A43 ABS & BA & TRAC & VSC ECU
A44 ABS & BA & TRAC & VSC ECU
A45 A/C Control Assembly
A46 A/C Control Assembly
A47 A/C Control Assembly
A48 A/T Shift Lever Illumination
Shift Lock Control ECU

B 1 Blower Motor Controller
B 7 Body ECU
B 8 Body ECU
B 9 Body ECU

C 5 Center Diff. Lock Control Relay
C10 Cigarette Lighter
C11 Cigarette Lighter Illumination
C12 Combination Meter
C13 Combination Meter
C14 Combination Meter
C15 Combination Meter
C16 Combination SW
C17 Combination SW
C18 Combination SW
C19 Combination SW
C25 Center Airbag Sensor Assembly
C26 Center Airbag Sensor Assembly
C27 Center Airbag Sensor Assembly
C28 Center Cluster Integration Panel

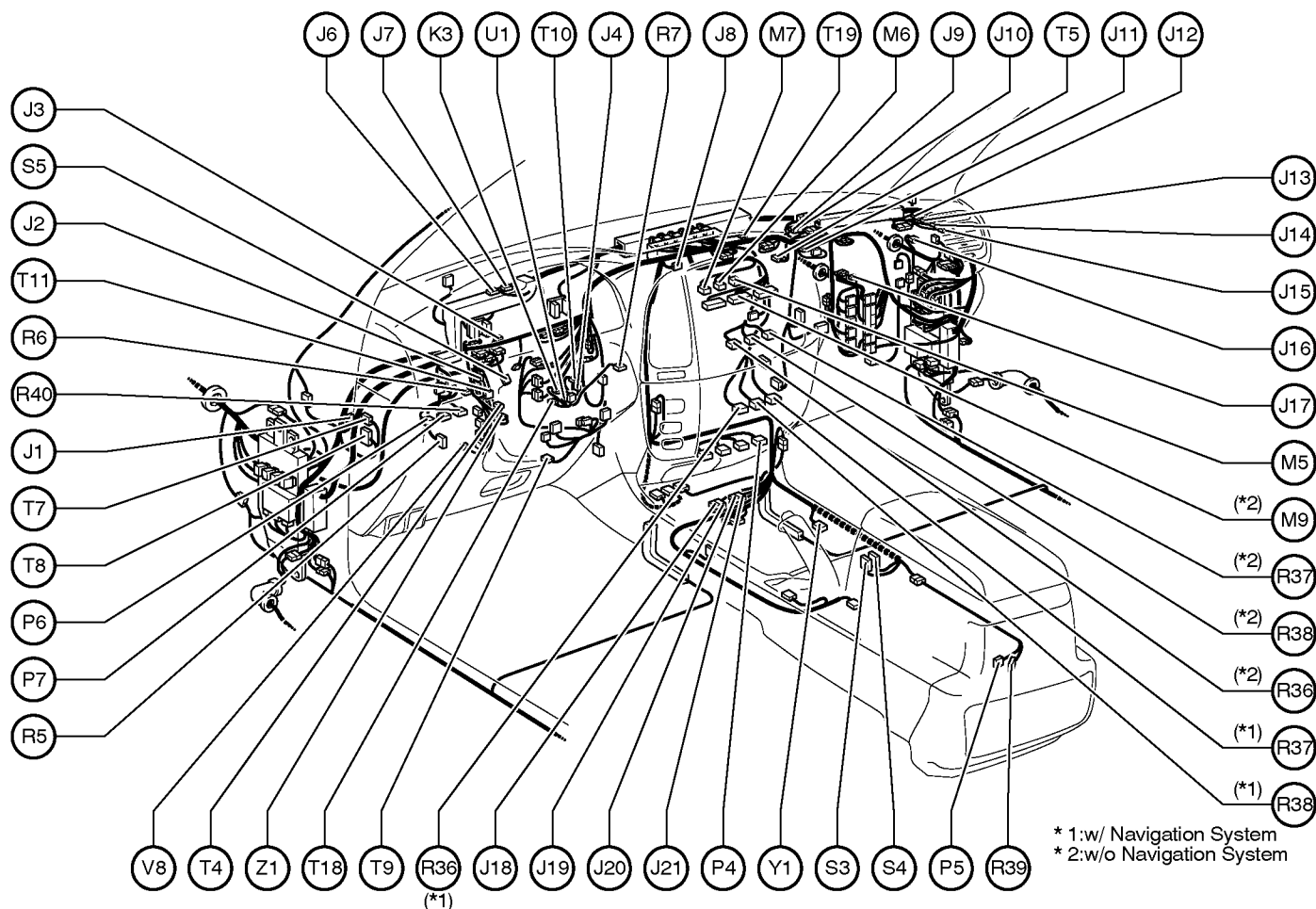
D 7 Data Link Connector 3
D26 DVD Automatic Changer

E 4 Electronically Controlled Transmission Pattern Select SW
E 5 Engine Control Module
E 6 Engine Control Module
E 7 Engine Control Module
E 8 Engine Control Module
E 9 Engine Control Module

G 3 Glove Box Light
G 4 Gateway ECU

I 18 Ignition SW

Position of Parts in Instrument Panel

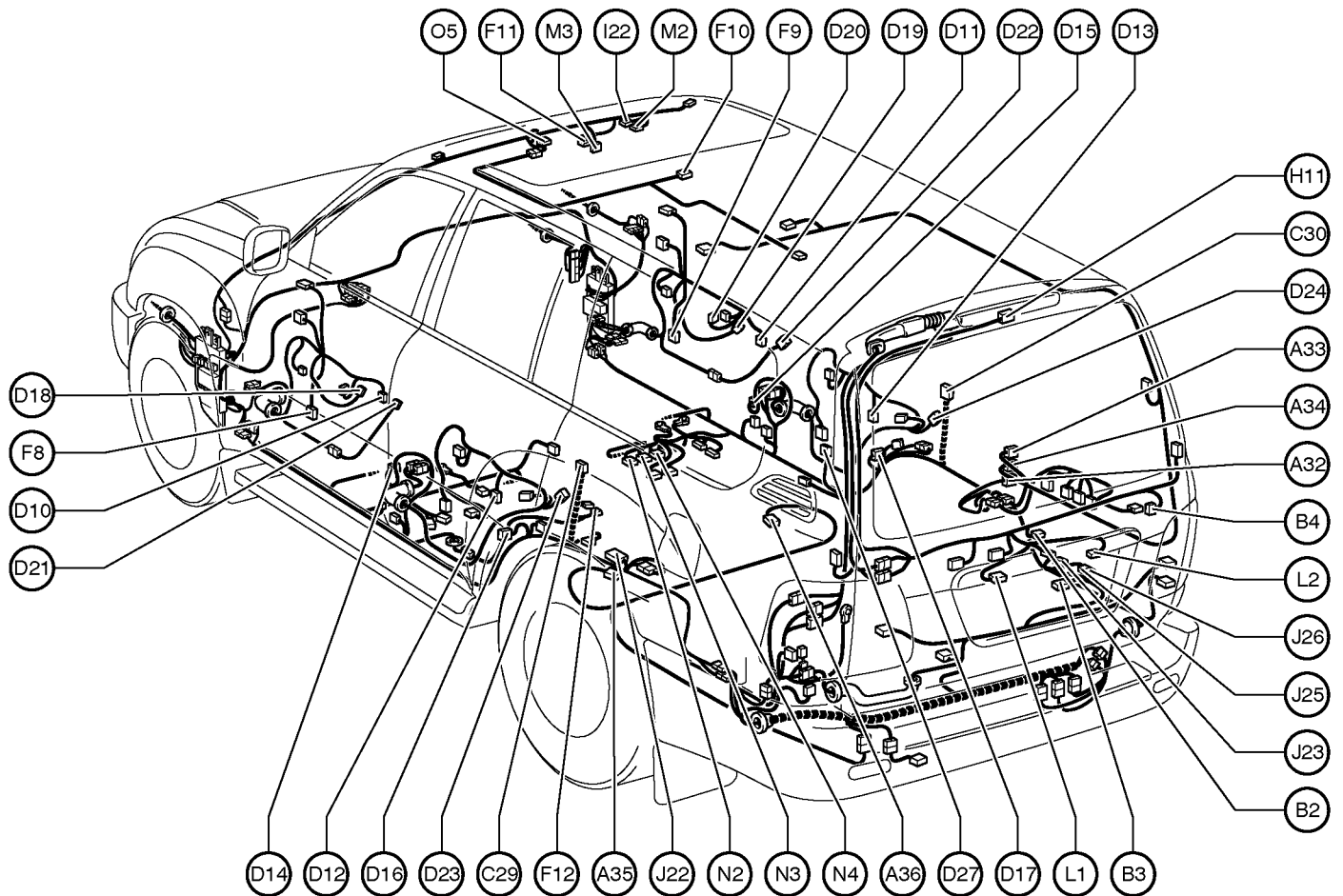


- J 1 Junction Connector
- J 2 Junction Connector
- J 3 Junction Connector
- J 4 Junction Connector
- J 6 Junction Connector
- J 7 Junction Connector
- J 8 Junction Connector
- J 9 Junction Connector
- J 10 Junction Connector
- J 11 Junction Connector
- J 12 Junction Connector
- J 13 Junction Connector
- J 14 Junction Connector
- J 15 Junction Connector
- J 16 Junction Connector
- J 17 Junction Connector
- J 18 Junction Connector
- J 19 Junction Connector
- J 20 Junction Connector
- J 21 Junction Connector
- K 3 Key Interlock Solenoid
- M 5 Multi-Display
- M 6 Multi-Display
- M 7 Multi-Display
- M 9 Multi-Display
- P 4 Power Outlet (Front)
- P 5 Power Outlet (Rear Console Box)
- P 6 Power Quarter Window SW LH
- P 7 Power Quarter Window SW RH

- R 5 Remote Control Mirror SW
- R 6 Rheostat
- R 7 Room Temp. Sensor (Front)
- R36 Radio and Player
- R37 Radio and Player
- R38 Radio and Player
- R39 Rear Seat Audio Controller
- R40 Roll Sensing of Curtain Shield Airbags Cutoff SW
- S 3 Seat Heater SW (Driver's Seat)
- S 4 Seat Heater SW (Front Passenger's Seat)
- S 5 Stop Light SW
- T 4 Telescopic Motor
- T 5 Theft Deterrent ECU
- T 7 Tilt and Telescopic ECU
- T 8 Tilt and Telescopic ECU
- T 9 Tilt Motor
- T 10 Ignition Key Cylinder Light
Transponder Key Amplifier
- T 11 Turn Signal Flasher
- T 18 Towing Brake Controller
- T 19 Transponder Key Computer
- U 1 Unlock Warning SW
- V 8 VSC Warning Buzzer
- Y 1 Yaw Rate Sensor
- Z 1 Option Connector (Glass Breakage Sensor)

G ELECTRICAL WIRING ROUTING

Position of Parts in Body



A32 A/C Amplifier (Rear)
 A33 A/C Amplifier (Rear)
 A34 A/C Amplifier (Rear)
 A35 ABS Speed Sensor Rear LH
 A36 ABS Speed Sensor Rear RH

B 2 Back Door Courtesy SW
 B 3 Back Door Key Lock and Unlock SW
 B 4 Back Door Lock Motor
 Back Door Unlock Detection SW

C29 Curtain Shield Airbag Squib LH
 C30 Curtain Shield Airbag Squib RH

D10 Door Courtesy Light Front LH
 D11 Door Courtesy Light Front RH
 D12 Door Courtesy Light Rear LH
 D13 Door Courtesy Light Rear RH
 D14 Door Courtesy SW Front LH
 D15 Door Courtesy SW Front RH
 D16 Door Courtesy SW Rear LH
 D17 Door Courtesy SW Rear RH
 D18 Door Key Lock and Unlock SW LH
 D19 Door Key Lock and Unlock SW RH
 D20 Door Lock Control SW RH
 D21 Door Lock Motor Front LH
 Door Unlock Detection SW Front LH
 D22 Door Lock Motor Front RH
 Door Unlock Detection SW Front RH
 D23 Door Lock Motor Rear LH
 Door Unlock Detection SW Rear LH
 D24 Door Lock Motor Rear RH
 Door Unlock Detection SW Rear RH
 D27 Door Control Receiver

F 8 Front Door Speaker LH
 F 9 Front Door Speaker RH
 F10 Front Interior Light
 Rear Personal Light
 F11 Front Personal Light
 F12 Fuel Pump
 Fuel Sender

H11 High Mounted Stop Light

I 22 Inner Mirror

J22 Junction Connector
 J23 Junction Connector
 J25 Junction Connector
 J26 Junction Connector

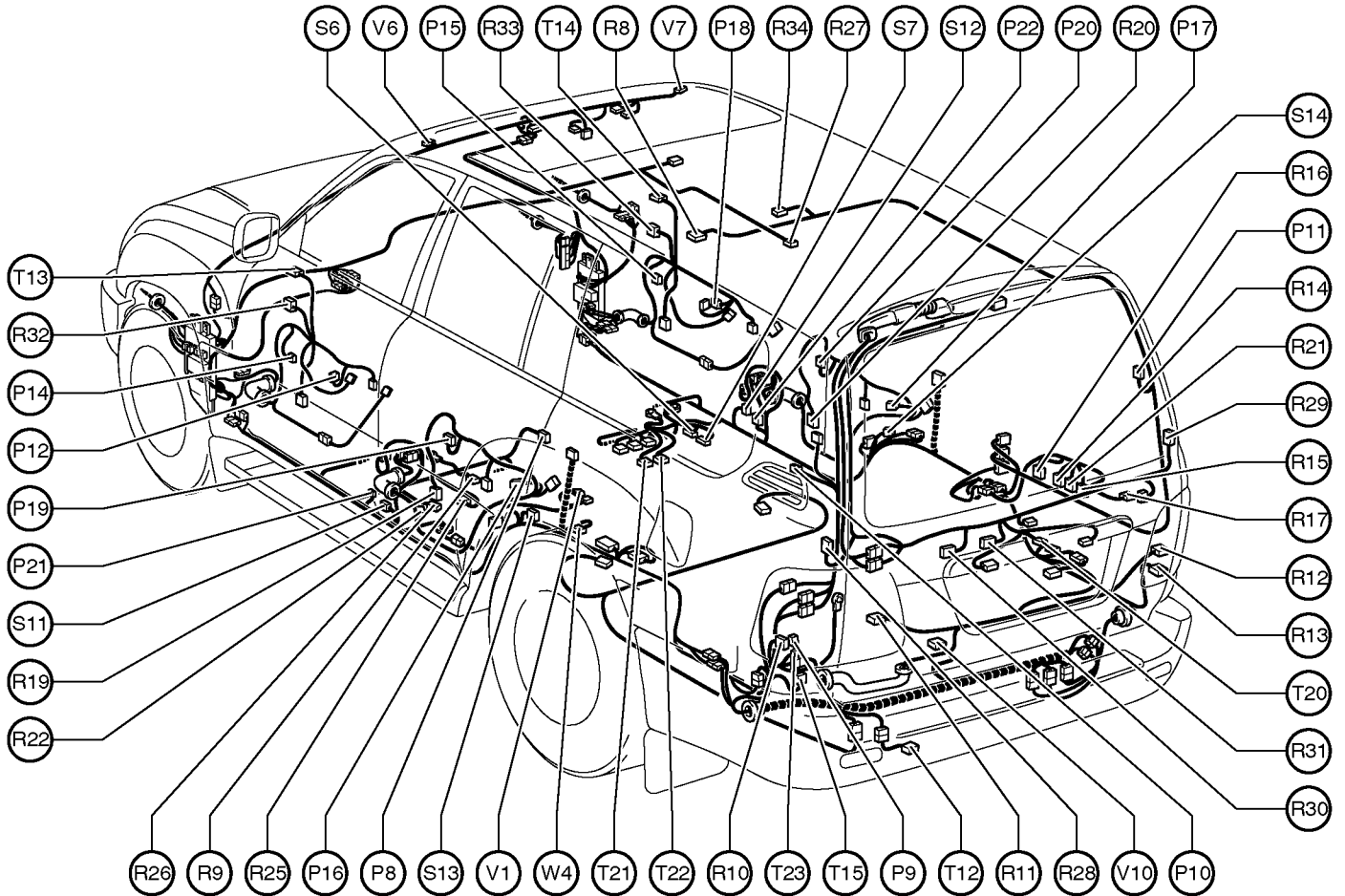
L 1 License Plate Light LH
 L 2 License Plate Light RH

M 2 Moon Roof Control ECU
 M 3 Moon Roof Control SW

N 2 Navigation ECU
 N 3 Navigation ECU
 N 4 Navigation ECU

O 5 Overhead J/B

Position of Parts in Body



P 8 Parking Brake SW
 P 9 Power Outlet (Luggage Compartment)
 P10 Power Vent Window Motor LH
 P 11 Power Vent Window Motor RH
 P12 Power Window Master SW
 P14 Power Window Motor Front LH
 P15 Power Window Motor Front RH
 P16 Power Window Motor Rear LH
 P17 Power Window Motor Rear RH
 P18 Power Window Control SW Front RH
 P19 Power Window Control SW Rear LH
 P20 Power Window Control SW Rear RH
 P21 Pretensioner LH
 P22 Pretensioner RH

R 8 Rear A/C Control SW
 R 9 Rear Air Mix Control Servo Motor
 R10 Rear Combination Light LH
 R11 Rear Combination Light LH
 R12 Rear Combination Light RH
 R13 Rear Combination Light RH
 R14 Rear Cooler Blower Motor
 R15 Rear Cooler Magnetic Valve
 R16 Rear Cooler Power Transistor
 R17 Rear Cooler Relay
 R19 Rear Door Speaker LH
 R20 Rear Door Speaker RH
 R21 Rear Evaporator Temp. Sensor
 R22 Rear Heater Blower Motor
 R25 Rear Heater Power Transistor
 R26 Rear Inlet Air Temp. Sensor

R27 Rear Interior Light
 R28 Rear Window Defogger
 R29 Rear Window Defogger
 R30 Rear Wiper Motor
 R31 Rear Wiper Relay
 R32 Remote Control Mirror LH
 R33 Remote Control Mirror RH
 R34 Room Temp. Sensor (Rear)

S 6 Stereo Component Amplifier
 S 7 Stereo Component Amplifier
 S11 Side Airbag Sensor Front LH
 S12 Side Airbag Sensor Front RH
 S13 Side Airbag Sensor Rear LH
 S14 Side Airbag Sensor Rear RH

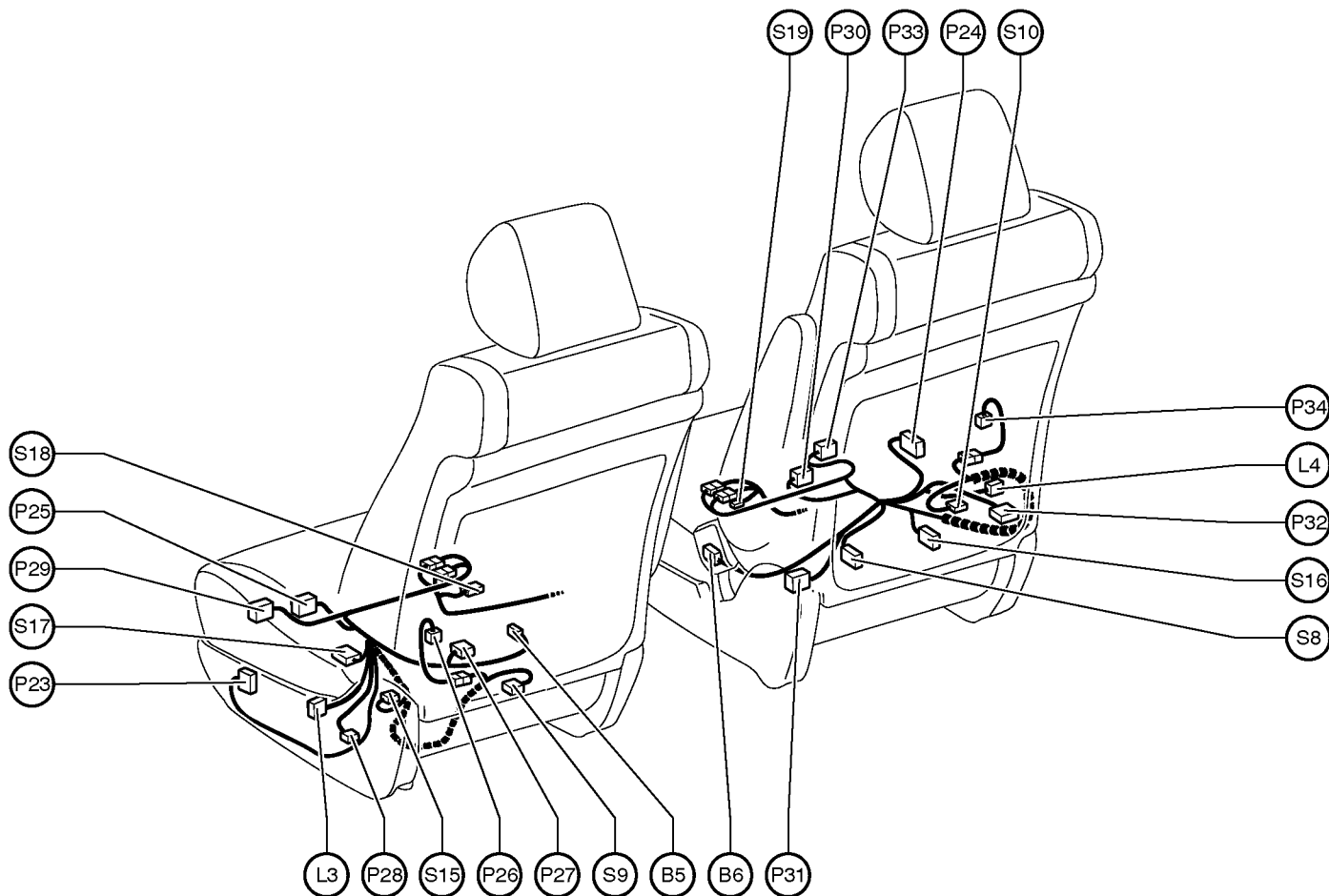
T 12 Trailer Socket
 T13 Tweeter LH
 T14 Tweeter RH
 T15 Towing Converter Relay
 T20 Television Camera
 T21 Television Camera ECU
 T22 Television Camera ECU
 T23 Towing Hitch Relay

V 1 Vapor Pressure Sensor
 V 6 Vanity Light LH
 V 7 Vanity Light RH
 V10 VSV (Pressure Switching Valve)

W 4 Woofer (Speaker)

G ELECTRICAL WIRING ROUTING

Position of Parts in Seat



B 5 Buckle SW LH
B 6 Buckle SW RH

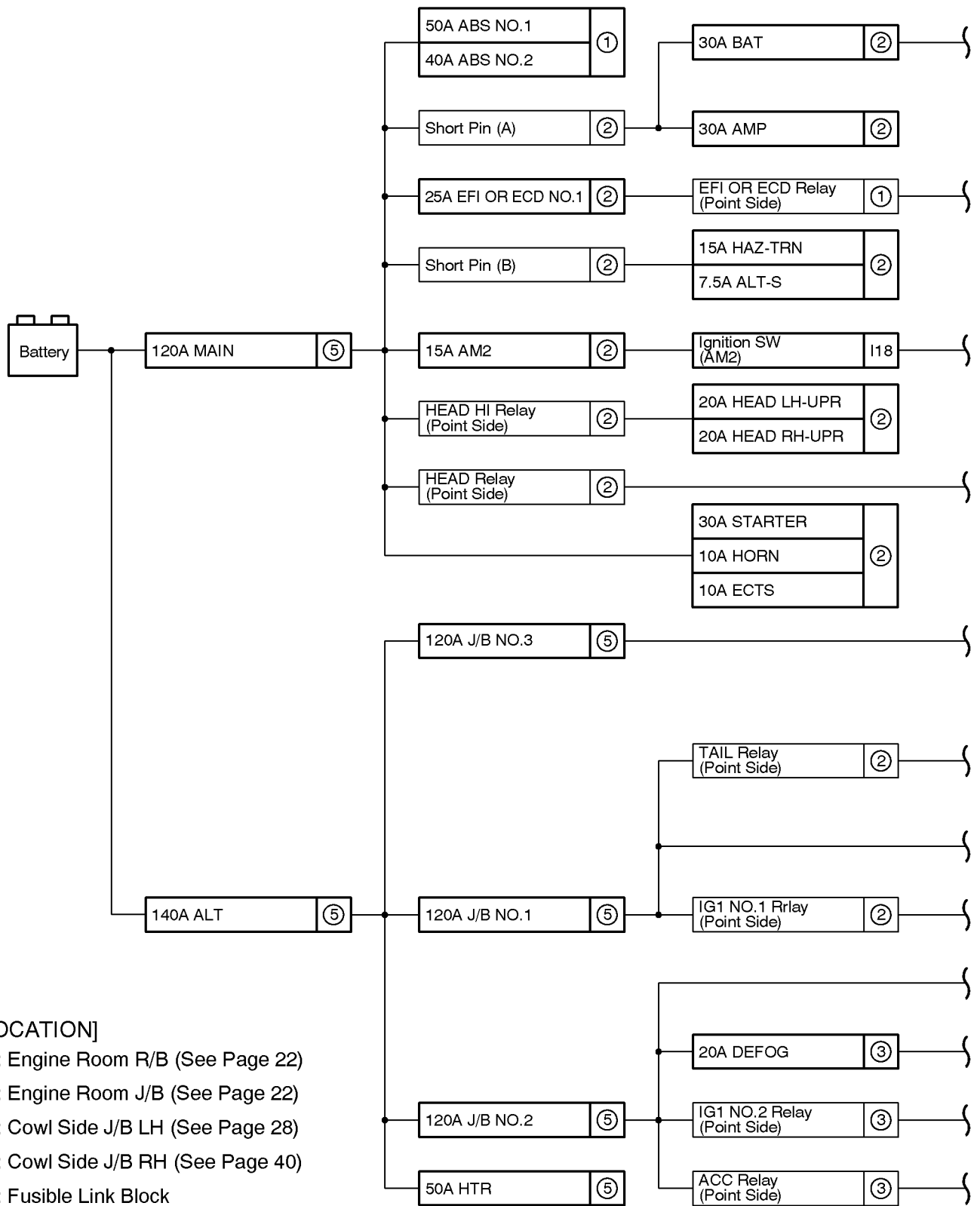
L 3 Lumbar Support Control SW (Driver's Seat)
L 4 Lumbar Support Control SW (Front Passenger's Seat)

P23 Power Seat Control SW (Driver's Seat)
P24 Power Seat Control SW (Front Passenger's Seat)
P25 Power Seat Motor (Driver's Seat Front Vertical Control)
P26 Power Seat Motor
(Driver's Seat Lumbar Support Control)
P27 Power Seat Motor (Driver's Seat Rear Vertical Control)
P28 Power Seat Motor (Driver's Seat Reclining Control)
P29 Power Seat Motor (Driver's Seat Slide Control)
P30 Power Seat Motor
(Front Passenger's Seat Front Vertical Control)
P31 Power Seat Motor
(Front Passenger's Seat Rear Vertical Control)
P32 Power Seat Motor
(Front Passenger's Seat Reclining Control)
P33 Power Seat Motor
(Front Passenger's Seat Slide Control)
P34 Power Seat Motor
(Front Passenger's Seat Lumbar Support Control)

S 8 Seat Belt Warning Occupant Detection Sensor
S 9 Seat Heater (Driver's Seat)
S10 Seat Heater (Front Passenger's Seat)
S15 Seat Heater (Driver's Seat Cushion)
S16 Seat Heater (Front Passenger's Seat Cushion)
S17 Seat Position Sensor
S18 Side Airbag Squib LH
S19 Side Airbag Squib RH

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.



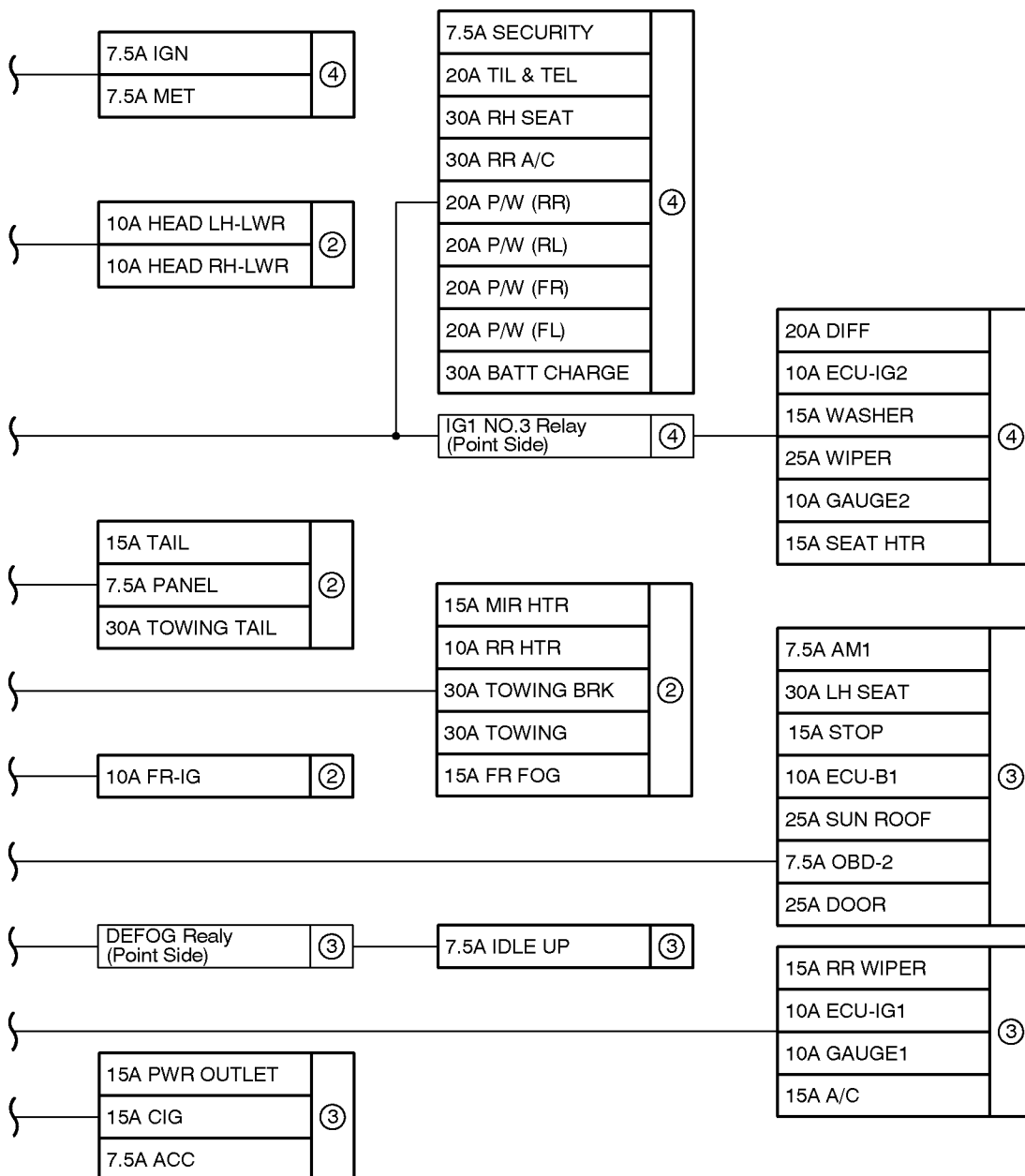
{	10A RADIO	④
	10A ECU-B2	
	10A DOME	

{	10A EFI OR ECD NO.2	③
---	---------------------	---

Example

Starter	S1
Parts	Code or Location

7.5A DRL	④
Electrical Source	Location



J POWER SOURCE (Current Flow Chart)

Engine Room R/B (See Page 22)

Fuse		System	Page
40A	ABS NO.2	VSC	228
50A	ABS NO.1	VSC	228

Engine Room J/B (See Page 22)

Fuse		System	Page
7.5A	ALT-S	Charging	104
7.5A	PANEL	Combination Meter	350
		Illumination	142
		Multiplex Communication System	172
10A	ETCS	Cruise Control	222
		Electronically Controlled Transmission and A/T Indicator	212
		Engine Control	108
10A	FR-IG	Charging	104
10A	HEAD LH-LWR	Front Fog Light	132
		Headlight	128
		Multiplex Communication System	172
10A	HEAD RH-LWR	Headlight	128
		Multiplex Communication System	172
10A	HORN	Horn	208
		Multiplex Communication System	172
		Theft Deterrent	282
10A	RR HTR	Air Conditioning (Rear)	366
15A	AM2	Automatic Light Control	164
		Engine Control	108
		Headlight	128
		Ignition	100
		Light Auto Turn Off System	166
		Starting	98
		Theft Deterrent	282
15A	FR FOG	Front Fog Light	132
		Multiplex Communication System	172
15A	HAZ-TRN	Turn Signal and Hazard Warning Light	134
15A	MIR HTR	Mirror Heater	314
15A	TAIL	Automatic Light Control	164
		Light Auto Turn Off System	166
		Multiplex Communication System	172
		Taillight	138
		Theft Deterrent	282
		Trailer Towing	158
20A	HEAD LH-UPR	Headlight	128
		Multiplex Communication System	172

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

Fuse		System	Page
20A	HEAD RH-UPR	Headlight	128
		Multiplex Communication System	172
25A	EFI OR ECD NO.1	Cruise Control	222
		Electronically Controlled Transmission and A/T Indicator	212
		Engine Control	108
30A	AMP	Audio System (w/ Navigation System)	324
		Audio System (w/o Navigation System)	330
30A	STARTER	Engine Control	108
		Starting	98
30A	TOWING	Trailer Towing	158
30A	TOWING BRK	Trailer Towing	158
30A	TOWING TAIL	Trailer Towing	158

Cowl Side J/B LH (See Page 28)

Fuse		System	Page
7.5A	ACC	Audio System (w/ Navigation System)	324
		Audio System (w/o Navigation System)	330
		Auto Antenna	322
		Automatic Light Control	164
		Combination Meter	350
		Door Lock Control	260
		Engine Control	108
		Headlight	128
		Interior Light	148
		Key Reminder	316
		Light Auto Turn Off System	166
		Multi-Display (w/o Navigation System)	348
		Multiplex Communication System	172
		Navigation System and TOYOTA Parking Assist (Rear View Monitor)	336
		Power Window	250
		Remote Control Mirror	302
		Theft Deterrent	282
		Wireless Door Lock Control	270
7.5A	AM1	Air Conditioning (Rear)	366
		Engine Control	108
		Mirror Heater	314
		Rear Window Defogger	312
		Shift Lock	244
7.5A	IDLE UP	Multiplex Communication System	172
		Rear Window Defogger	312
7.5A	OBD-2	Engine Control	108

* 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	ECU-B1	Multi-Display (w/o Navigation System)	348
		Navigation System and TOYOTA Parking Assist (Rear View Monitor)	336
10A	ECU-IG1	Automatic Glare-Resistant EC Mirror with Compass	304
		Automatic Light Control	164
		Door Lock Control	260
		Headlight	128
		Interior Light	148
		Key Reminder	316
		Light Auto Turn Off System	166
		Moon Roof	256
		Multi-Display (w/o Navigation System)	348
		Multiplex Communication System	172
		Navigation System and TOYOTA Parking Assist (Rear View Monitor)	336
		Power Window	250
		Shift Lock	244
		Theft Deterrent	282
		Trailer Towing	158
		VSC	228
		Wireless Door Lock Control	270
10A	EFI OR ECD NO.2	Engine Control	108
10A	GAUGE1	Air Conditioning (Front)	356
		Center Differential Lock	246
		Combination Meter	350
		Cruise Control	222
		Electronically Controlled Transmission and A/T Indicator	212
		Engine Control	108
		Illumination	142
		Key Reminder	316
		Multiplex Communication System	172
		Navigation System and TOYOTA Parking Assist (Rear View Monitor)	336
		Power Rear Quarter Window	306
		Seat Belt Warning	320
15A	A/C	Air Conditioning (Front)	356
		Air Conditioning (Rear)	366
		Seat Belt Warning	320
15A	CIG	Cigarette Lighter	204
15A	PWR OUTLET	Power Outlet	206
15A	RR WIPER	Rear Wiper and Washer	200
15A	STOP	Cruise Control	222
		Electronically Controlled Transmission and A/T Indicator	212
		Engine Control	108

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

Fuse		System	Page
15A	STOP	Multiplex Communication System	172
		Shift Lock	244
		Stop Light	156
		Trailer Towing	158
		VSC	228
20A	DEFOG	Rear Window Defogger	312
25A	DOOR	Automatic Light Control	164
		Door Lock Control	260
		Headlight	128
		Interior Light	148
		Key Reminder	316
		Light Auto Turn Off System	166
		Moon Roof	256
		Multiplex Communication System	172
		Power Window	250
		Theft Deterrent	282
		Wireless Door Lock Control	270
25A	SUN ROOF	Moon Roof	256
30A	LH SEAT	Power Seat	294

Cowl Side J/B RH (See Page 40)

Fuse		System	Page
7.5A	IGN	Cruise Control	222
		Electronically Controlled Transmission and A/T Indicator	212
		Engine Control	108
		Engine Immobilizer System	124
		SRS	237
		VSC	228
7.5A	MET	Center Differential Lock	246
		Charging	104
		Combination Meter	350
		Cruise Control	222
		Electronically Controlled Transmission and A/T Indicator	212
		Engine Control	108
		Multiplex Communication System	172
		Seat Belt Warning	320
		SRS	237
		VSC	228
7.5A	SECURITY	Multiplex Communication System	172
		Theft Deterrent	282
10A	DOME	Combination Meter	350
		Garage Door Opener	210
		Interior Light	148
		Multiplex Communication System	172

* 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	DOME	Theft Deterrent	282
		Wireless Door Lock Control	270
10A	ECU-B2	Air Conditioning (Front)	356
		Air Conditioning (Rear)	366
		Automatic Light Control	164
		Center Differential Lock	246
		Combination Meter	350
		Cruise Control	222
		Door Lock Control	260
		Electronically Controlled Transmission and A/T Indicator	212
		Engine Control	108
		Engine Immobilizer System	124
		Headlight	128
		Interior Light	148
		Key Reminder	316
		Light Auto Turn Off System	166
		Multiplex Communication System	172
		Navigation System and TOYOTA Parking Assist (Rear View Monitor)	336
		Power Tilt and Power Telescopic	298
		Power Window	250
		Seat Belt Warning	320
		Theft Deterrent	282
		VSC	228
		Wireless Door Lock Control	270
10A	ECU-IG2	Air Conditioning (Front)	356
		Air Conditioning (Rear)	366
		Auto Antenna	322
		Navigation System and TOYOTA Parking Assist (Rear View Monitor)	336
		Power Tilt and Power Telescopic	298
		Turn Signal and Hazard Warning Light	134
10A	GAUGE2	Back-Up Light	162
		Center Differential Lock	246
		Combination Meter	350
		Cruise Control	222
		Door Lock Control	260
		Electronically Controlled Transmission and A/T Indicator	212
		Engine Control	108
		Multiplex Communication System	172
		Navigation System and TOYOTA Parking Assist (Rear View Monitor)	336
		Trailer Towing	158
		VSC	228
		Wireless Door Lock Control	270

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

Fuse		System	Page
10A	RADIO	Audio System (w/ Navigation System)	324
		Audio System (w/o Navigation System)	330
		Auto Antenna	322
		Navigation System and TOYOTA Parking Assist (Rear View Monitor)	336
15A	SEAT HTR	Seat Heater	308
15A	WASHER	Front Wiper and Washer	196
		Rear Wiper and Washer	200
20A	DIFF	Center Differential Lock	246
20A	P/W (FL)	Door Lock Control	260
		Interior Light	148
		Multiplex Communication System	172
		Power Window	250
		Theft Deterrent	282
		Wireless Door Lock Control	270
20A	P/W (FR)	Multiplex Communication System	172
		Power Window	250
20A	P/W (RL)	Multiplex Communication System	172
		Power Window	250
20A	P/W (RR)	Multiplex Communication System	172
		Power Window	250
20A	TIL & TEL	Power Tilt and Power Telescopic	298
25A	WIPER	Front Wiper and Washer	196
30A	BATT CHARGE	Trailer Towing	158
30A	RH SEAT	Power Seat	294
30A	RR A/C	Air Conditioning (Rear)	366

Fusible Link Block (F15, F16, F17, F18, F19 on See Page 68)

Fuse		System	Page
50A	HTR	Air Conditioning (Front)	356
120A	J/B NO.1	Automatic Light Control	164
		Illumination	142
		Light Auto Turn Off System	166
		Multiplex Communication System	172
		Taillight	138
		Theft Deterrent	282
120A	J/B NO.2	Air Conditioning (Rear)	366
		Engine Control	108
		Mirror Heater	314
		Rear Window Defogger	312
		Shift Lock	244
120A	J/B NO.3	Engine Control	108

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

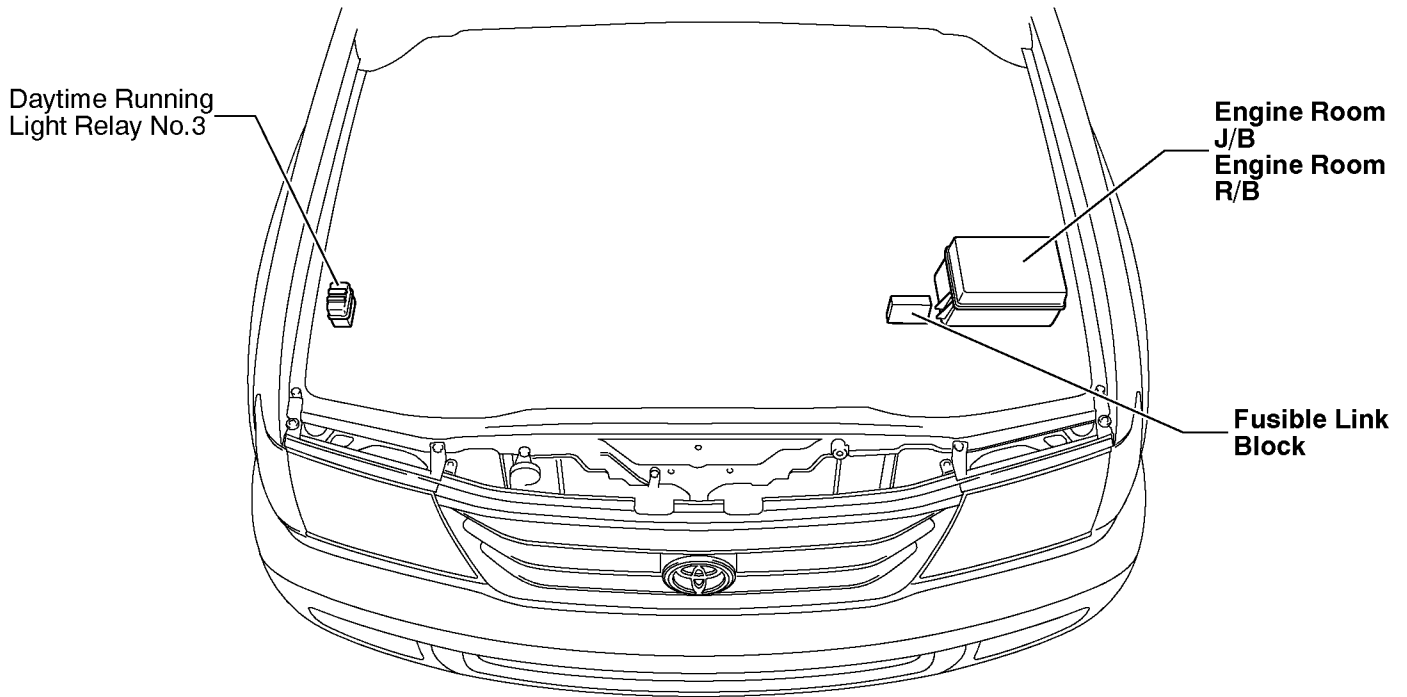
J POWER SOURCE (Current Flow Chart)

Fuse		System	Page
120A	MAIN	Ignition	100
		Multiplex Communication System	172
		Starting	98
140A	ALT	Air Conditioning (Front)	356
		Air Conditioning (Rear)	366
		Automatic Light Control	164
		Charging	104
		Engine Control	108
		Illumination	142
		Light Auto Turn Off System	166
		Mirror Heater	314
		Multiplex Communication System	172
		Rear Window Defogger	312
		Shift Lock	244
		Taillight	138
		Theft Deterrent	282

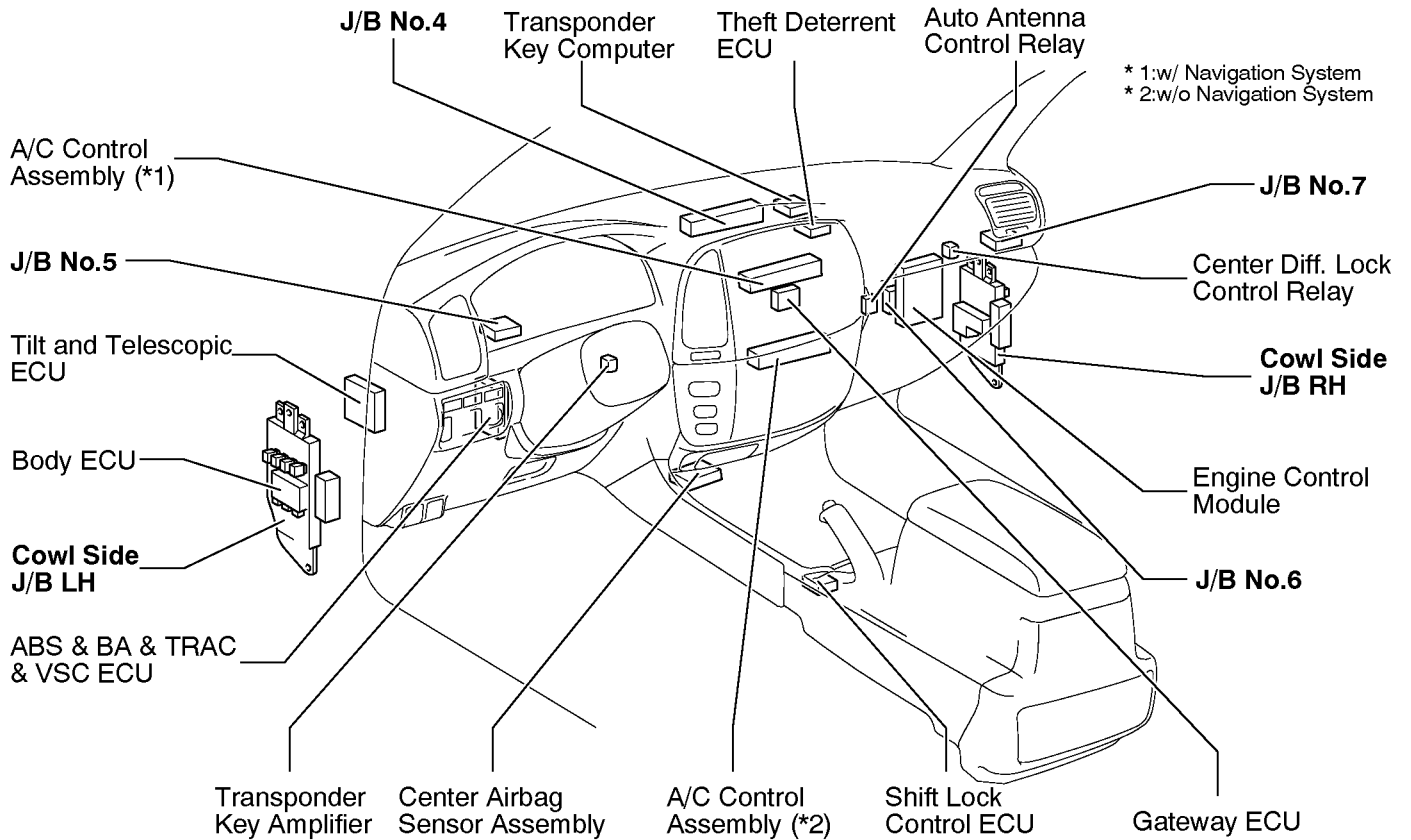
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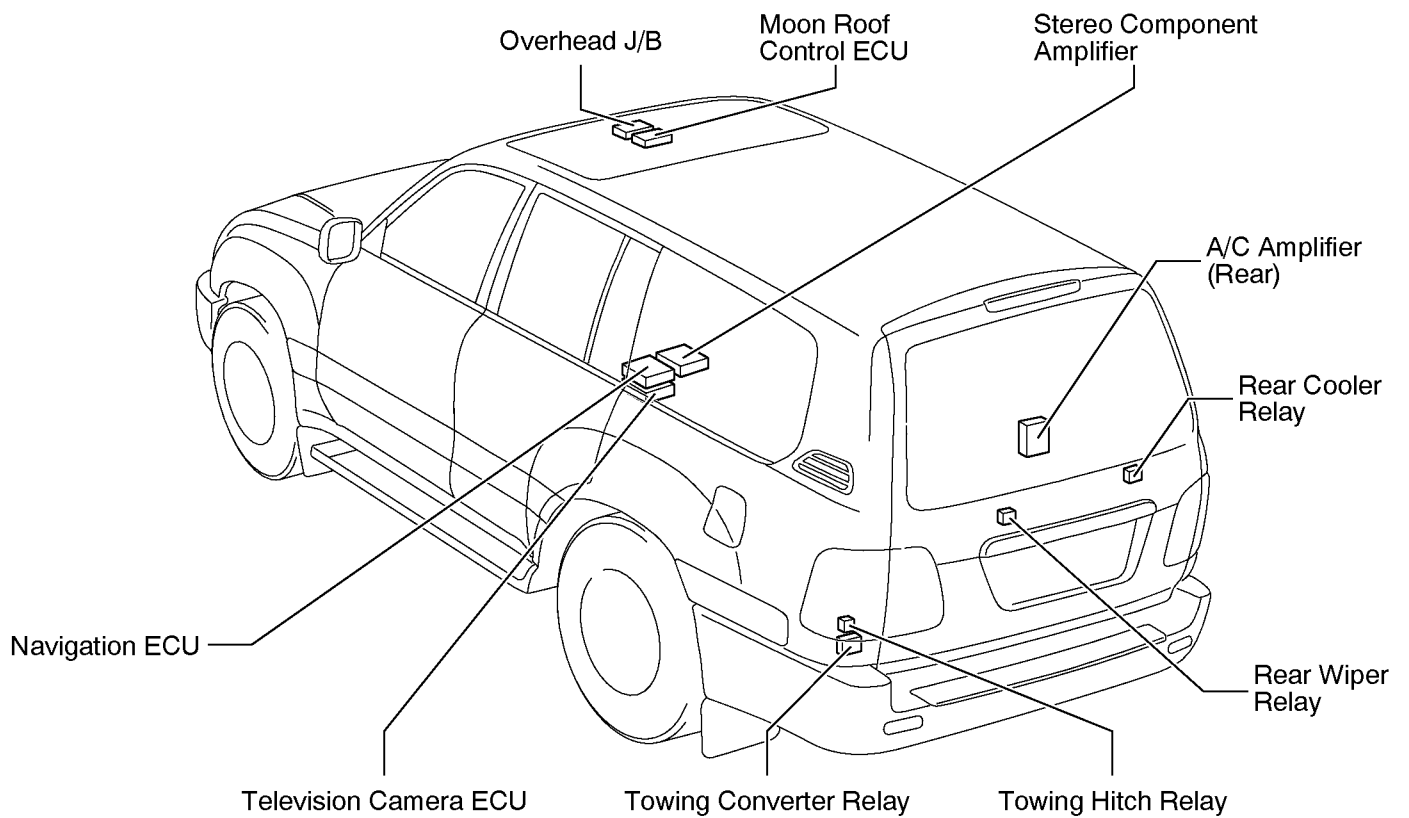
F RELAY LOCATIONS

[Engine Compartment]



[Instrument Panel]



[Body]

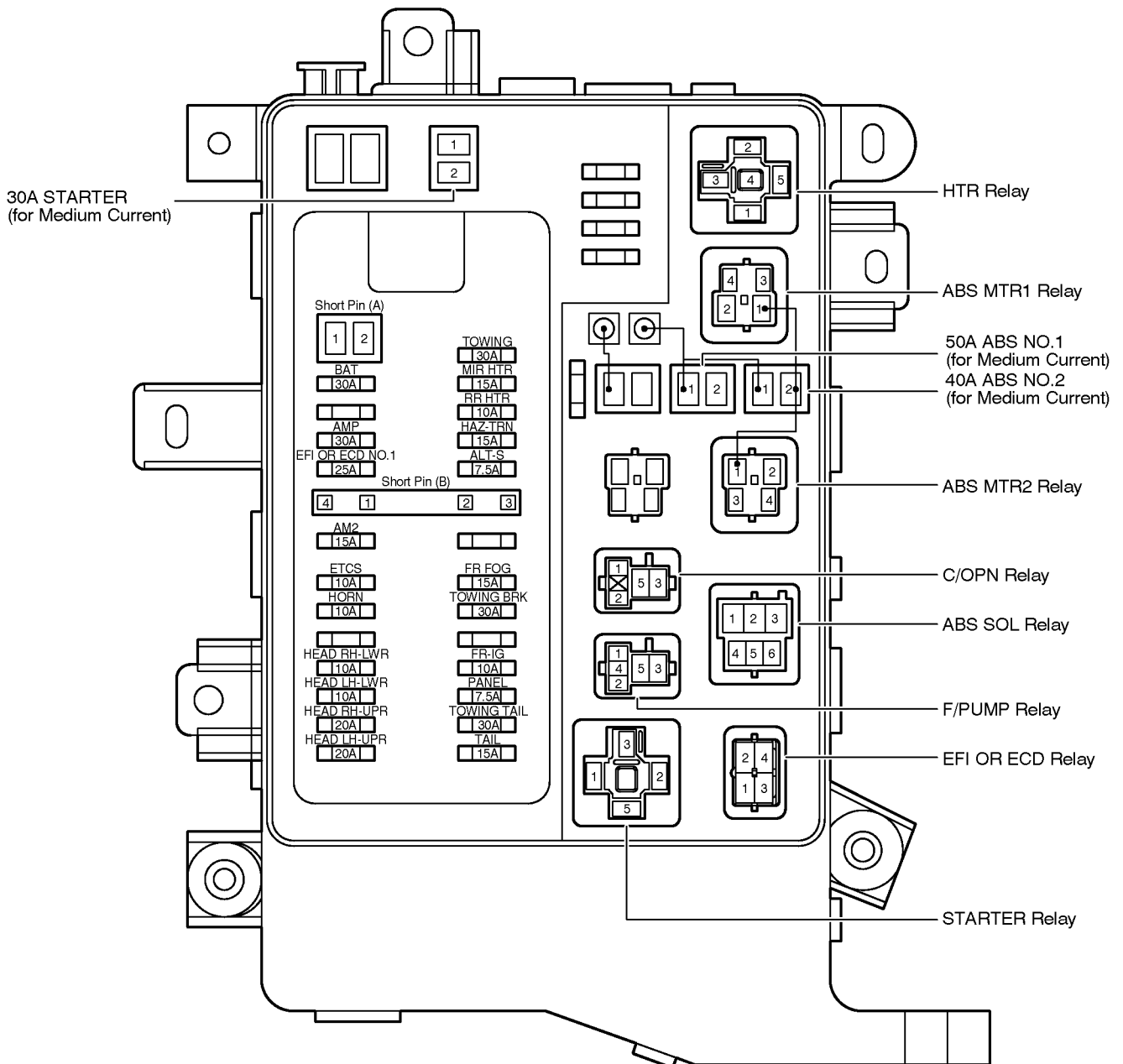
F RELAY LOCATIONS

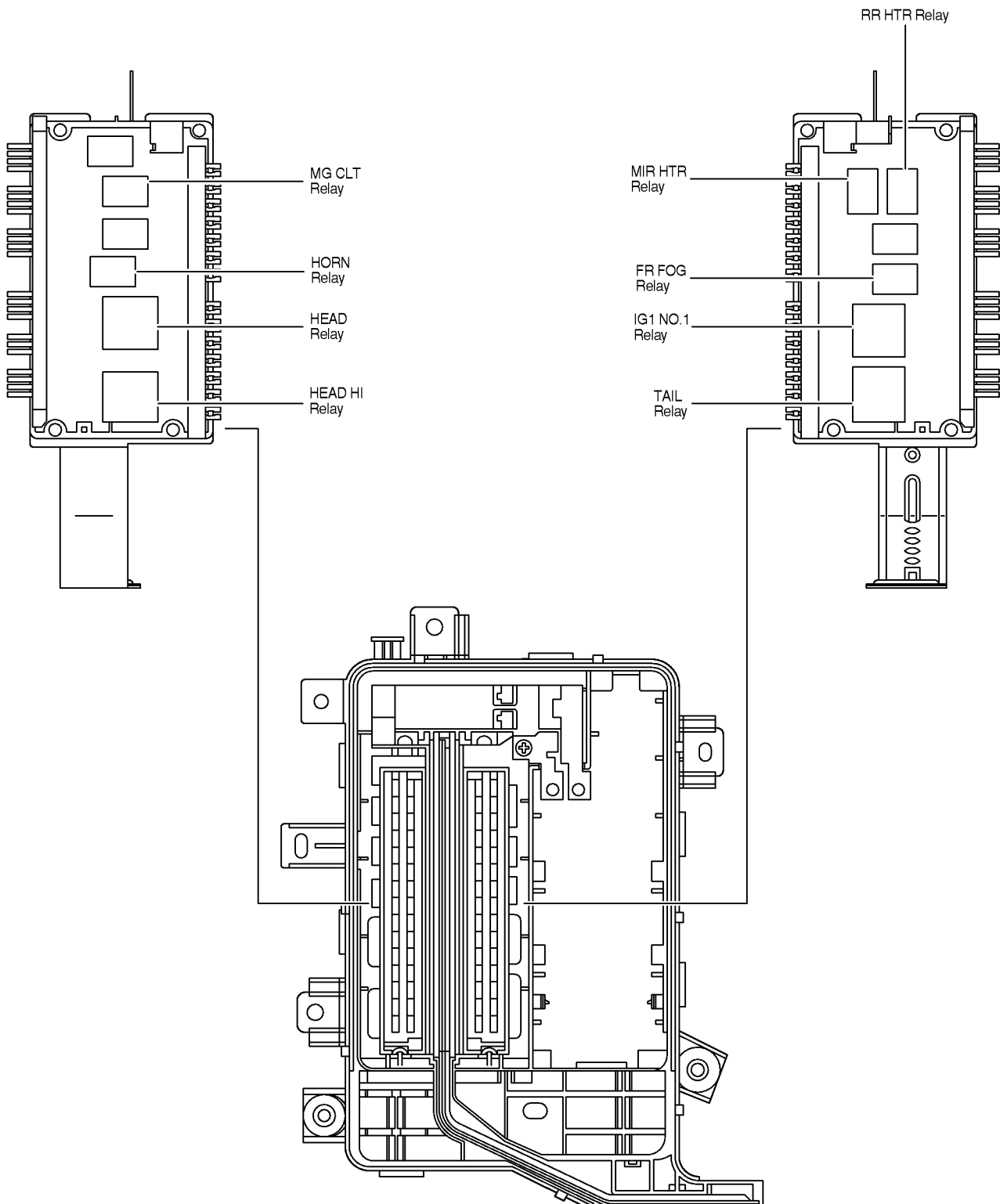
○ : Engine Room J/B

① : Engine Room R/B

Engine Compartment Left (See Page 20)

(Inner Circuit : See Page 26)



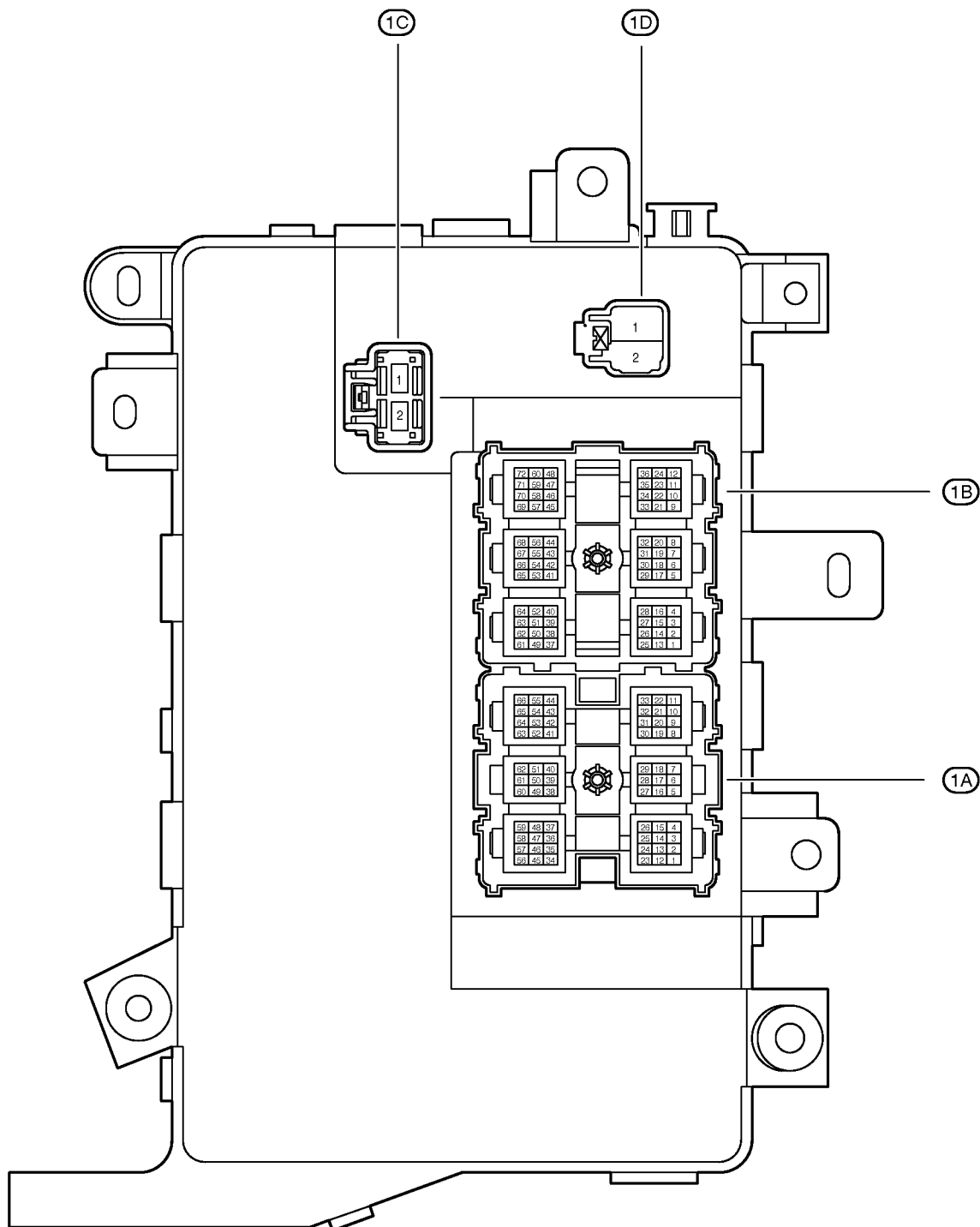


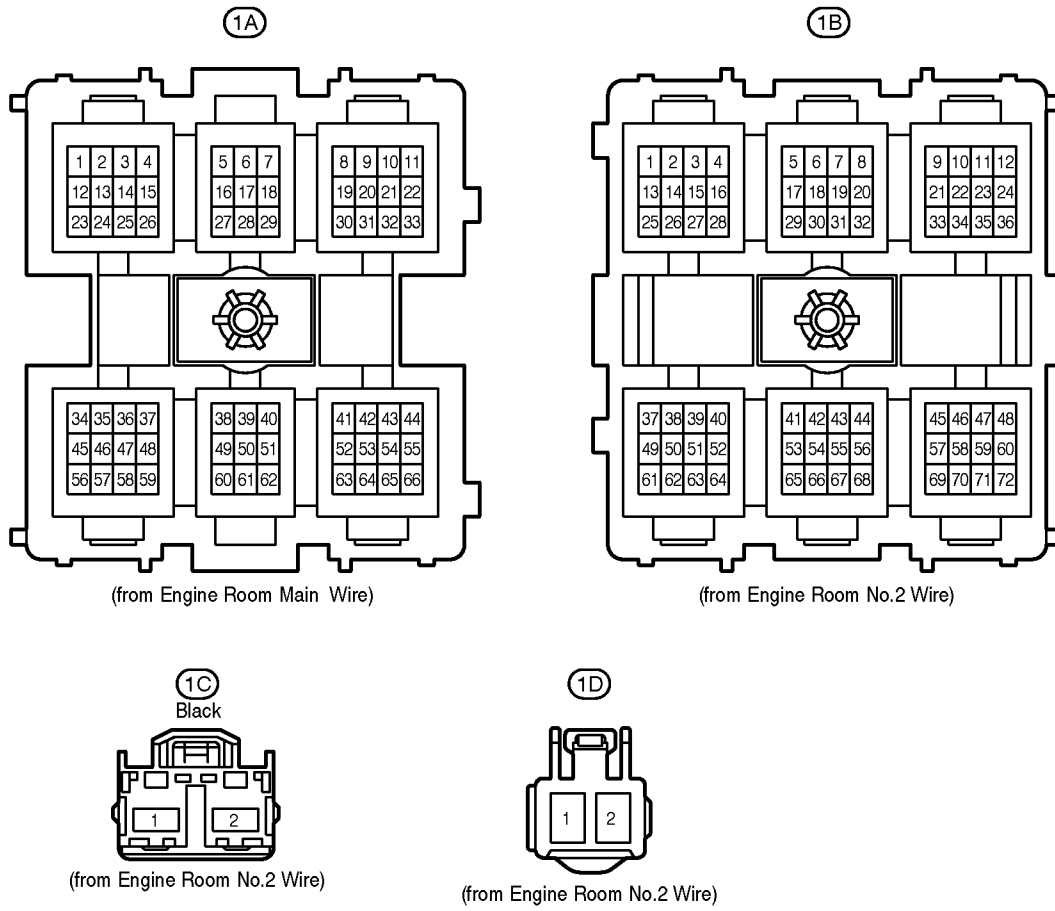
F RELAY LOCATIONS

○ : Engine Room J/B

Engine Compartment Left (See Page 20)

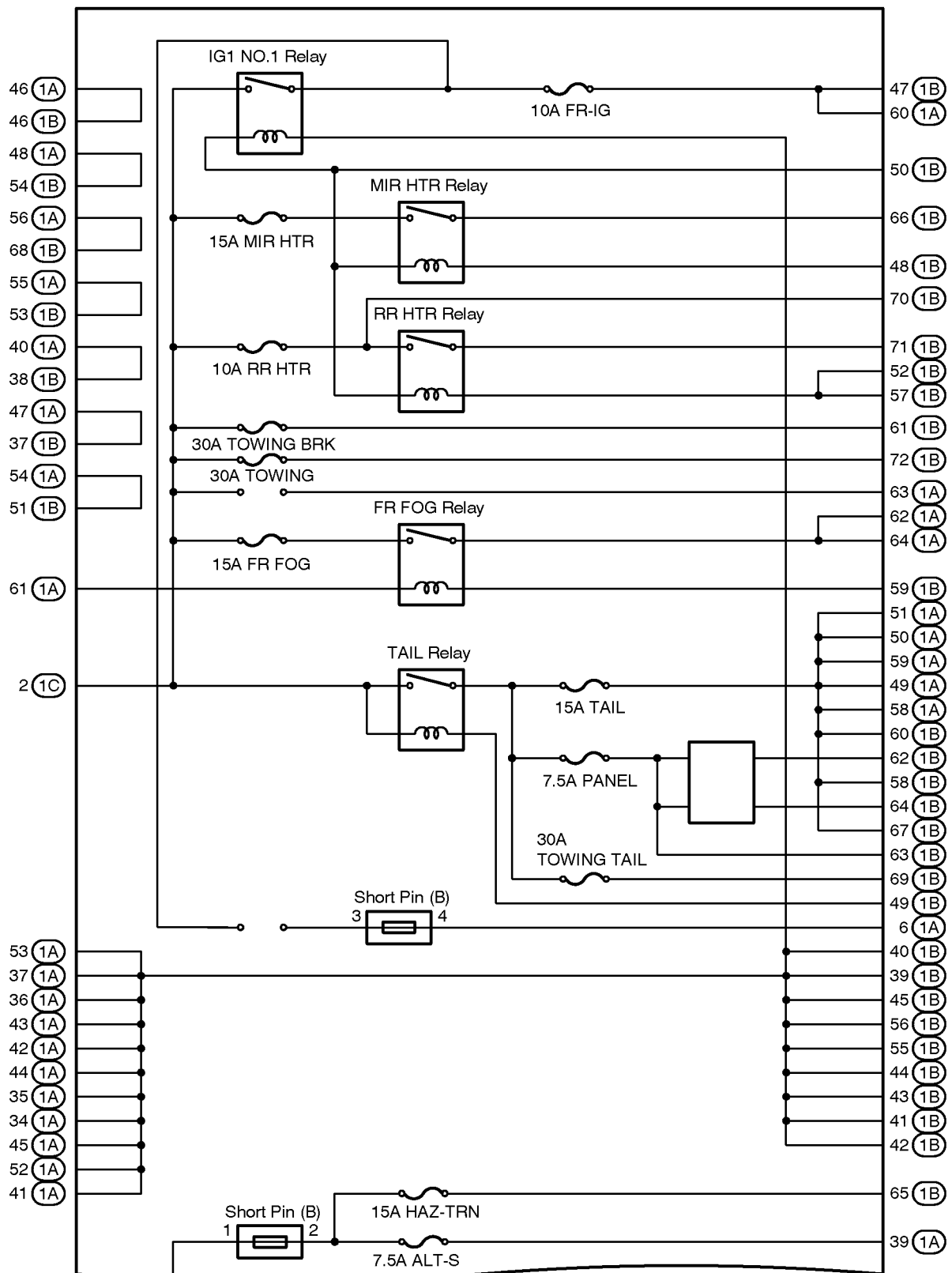
(Inner Circuit : See Page 26)



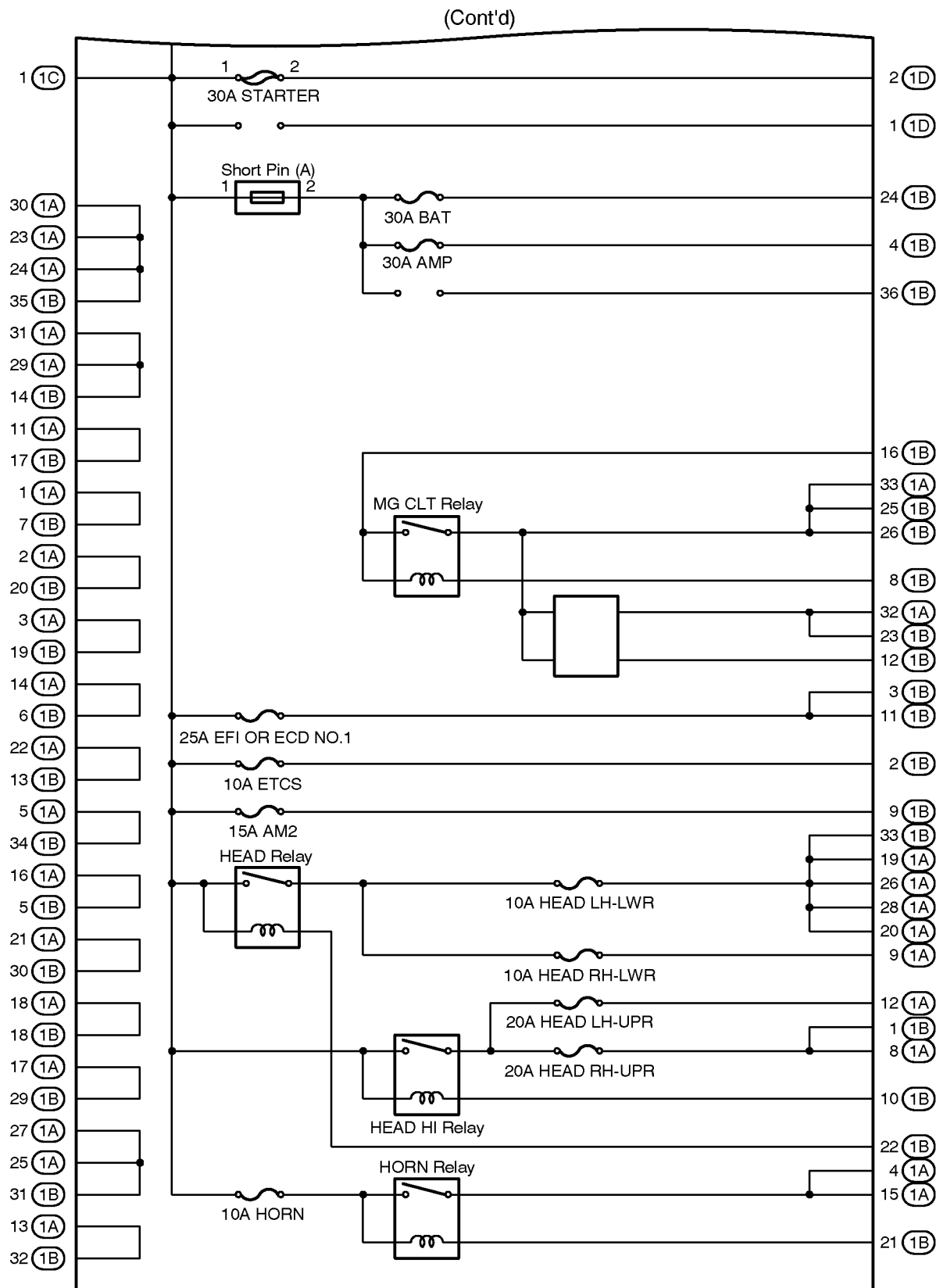


F RELAY LOCATIONS

[Engine Room J/B Inner Circuit]



(Cont. next page)

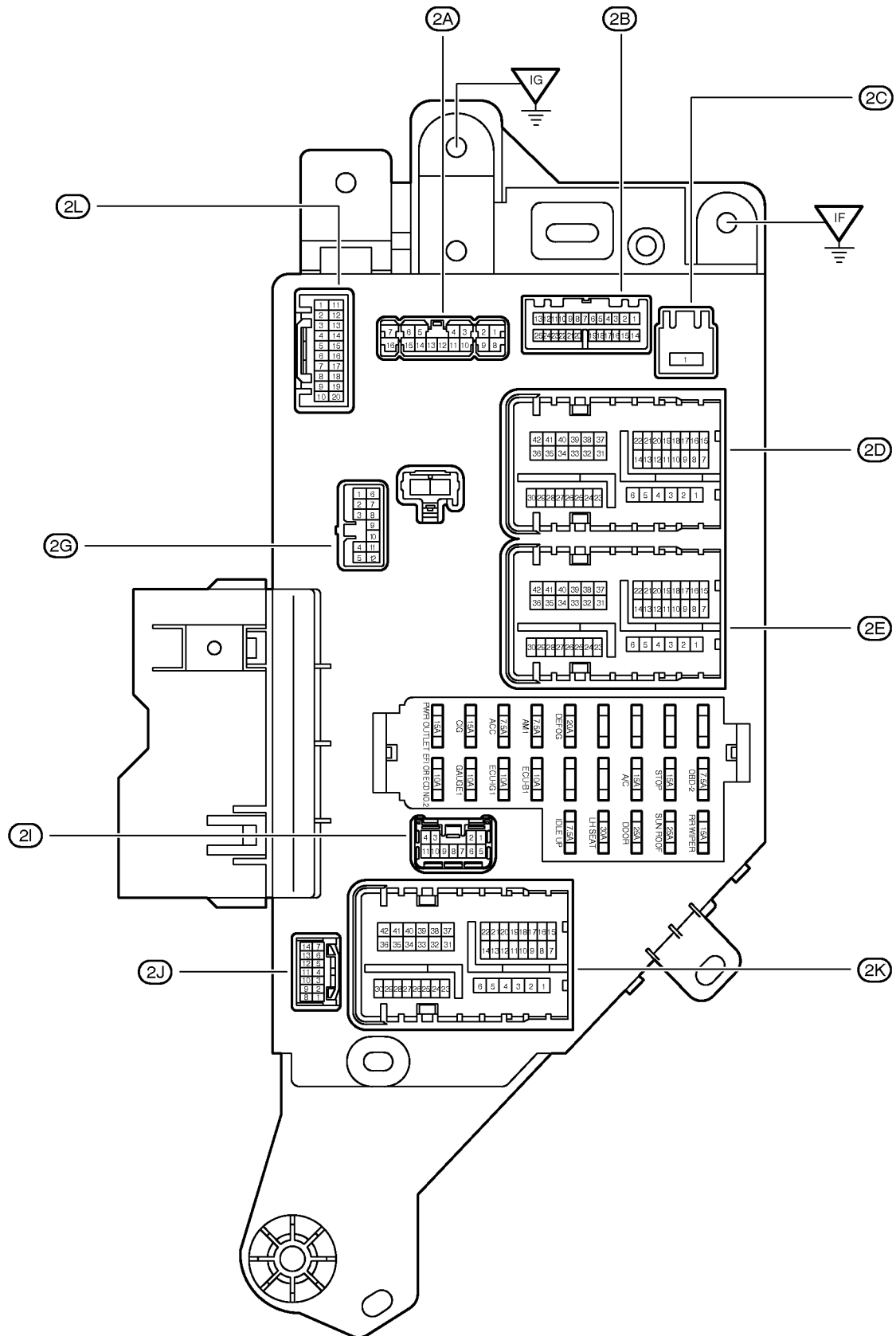


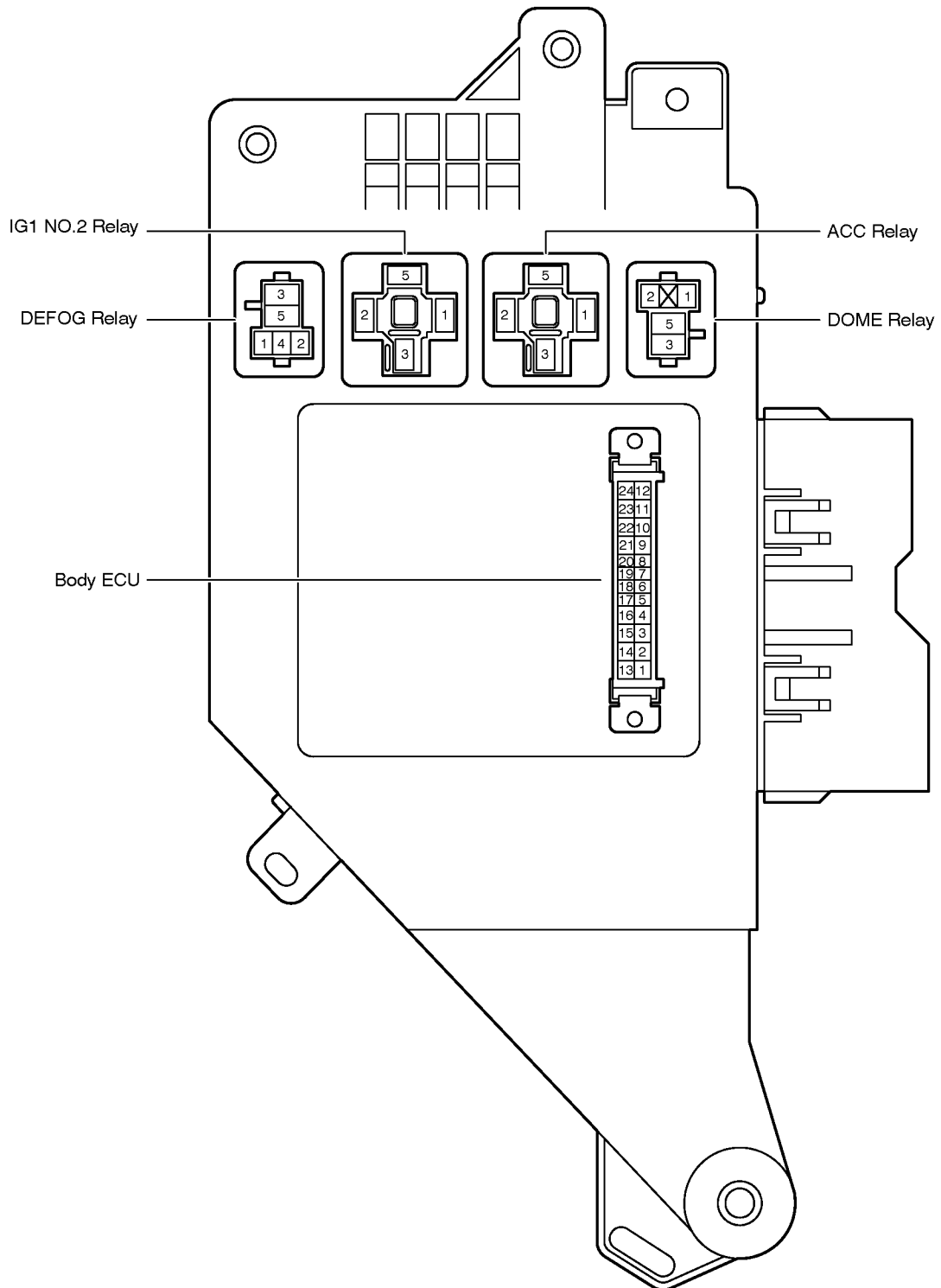
F RELAY LOCATIONS

 : Cowl Side J/B LH

Left Kick Panel (See Page 20)

(Inner Circuit : See Page 34)

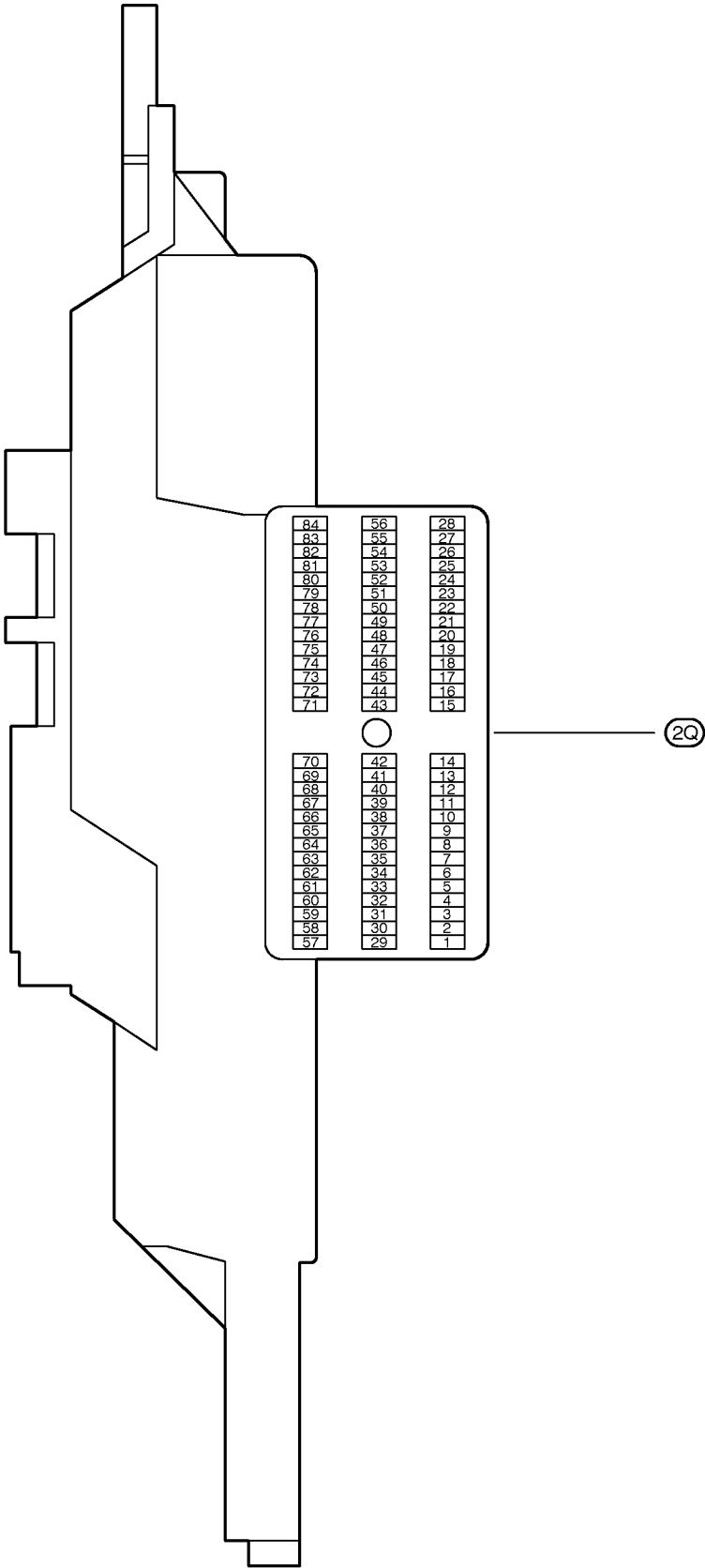




F RELAY LOCATIONS

 : Cowl Side J/B LH

Left Kick Panel (See Page 20)
(Inner Circuit : See Page 34)

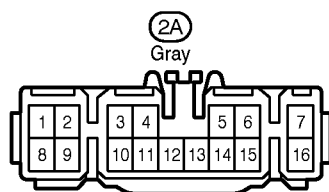


F RELAY LOCATIONS

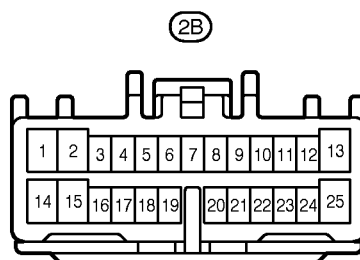
 : Cowl Side J/B LH

Left Kick Panel (See Page 20)

(Inner Circuit : See Page 34)



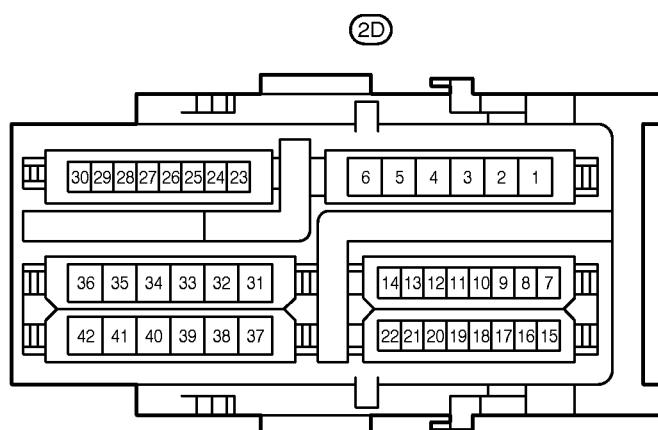
(from Engine Room No.2 Wire)



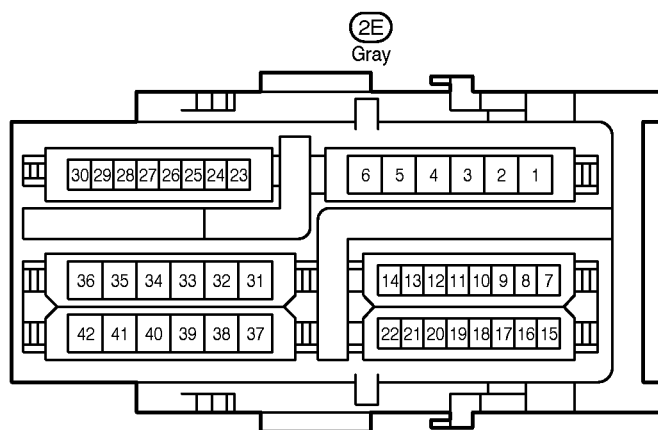
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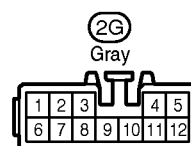
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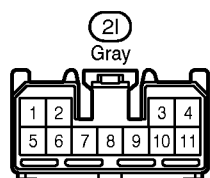
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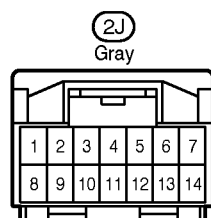
(from Dash Wire)



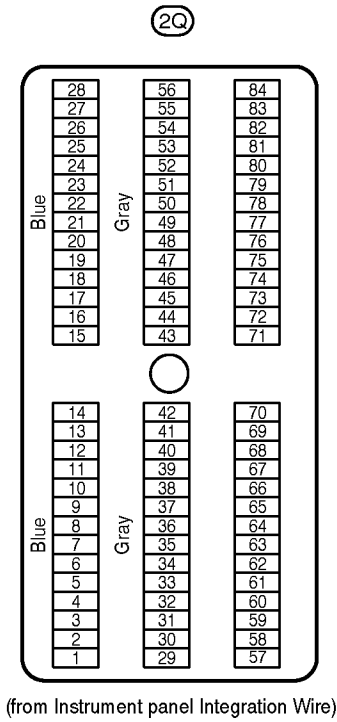
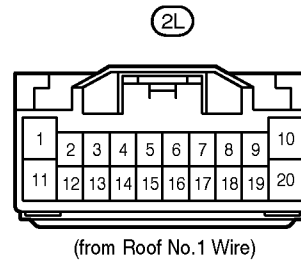
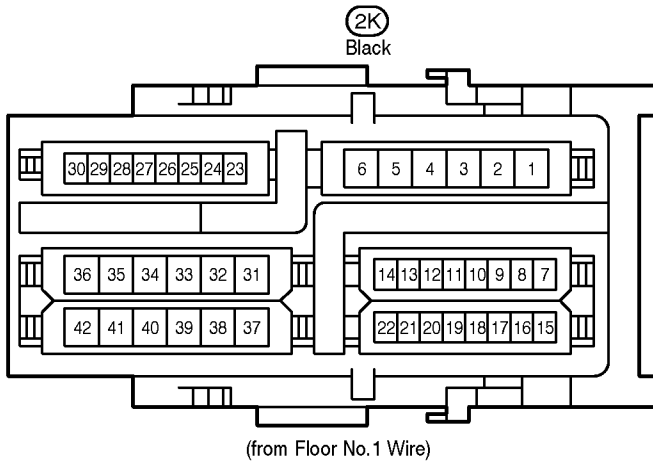
(from Dash Wire)



(from Front Door LH Wire)

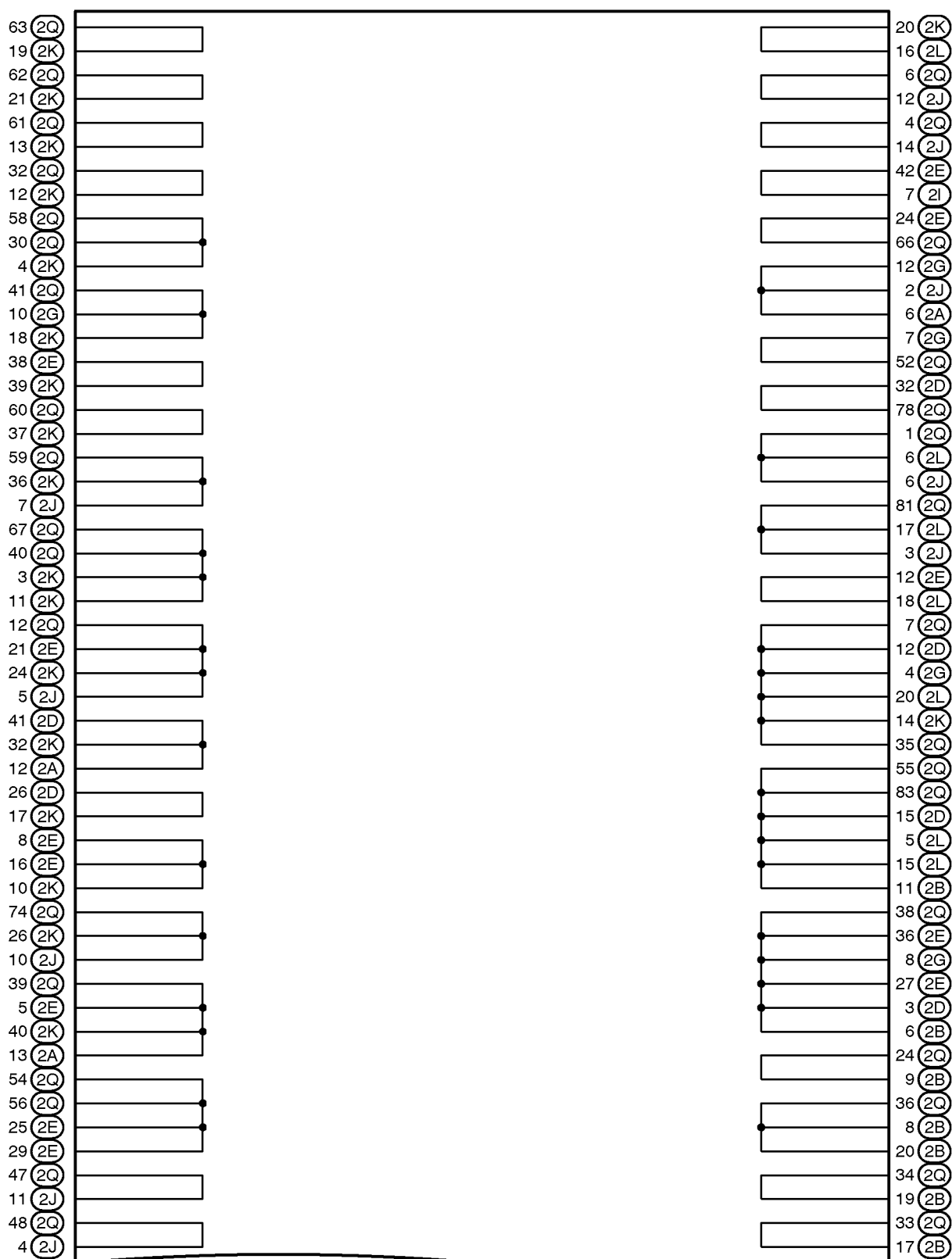


(from Front Door LH Wire)



F RELAY LOCATIONS

[Cowl Side J/B LH Inner Circuit]



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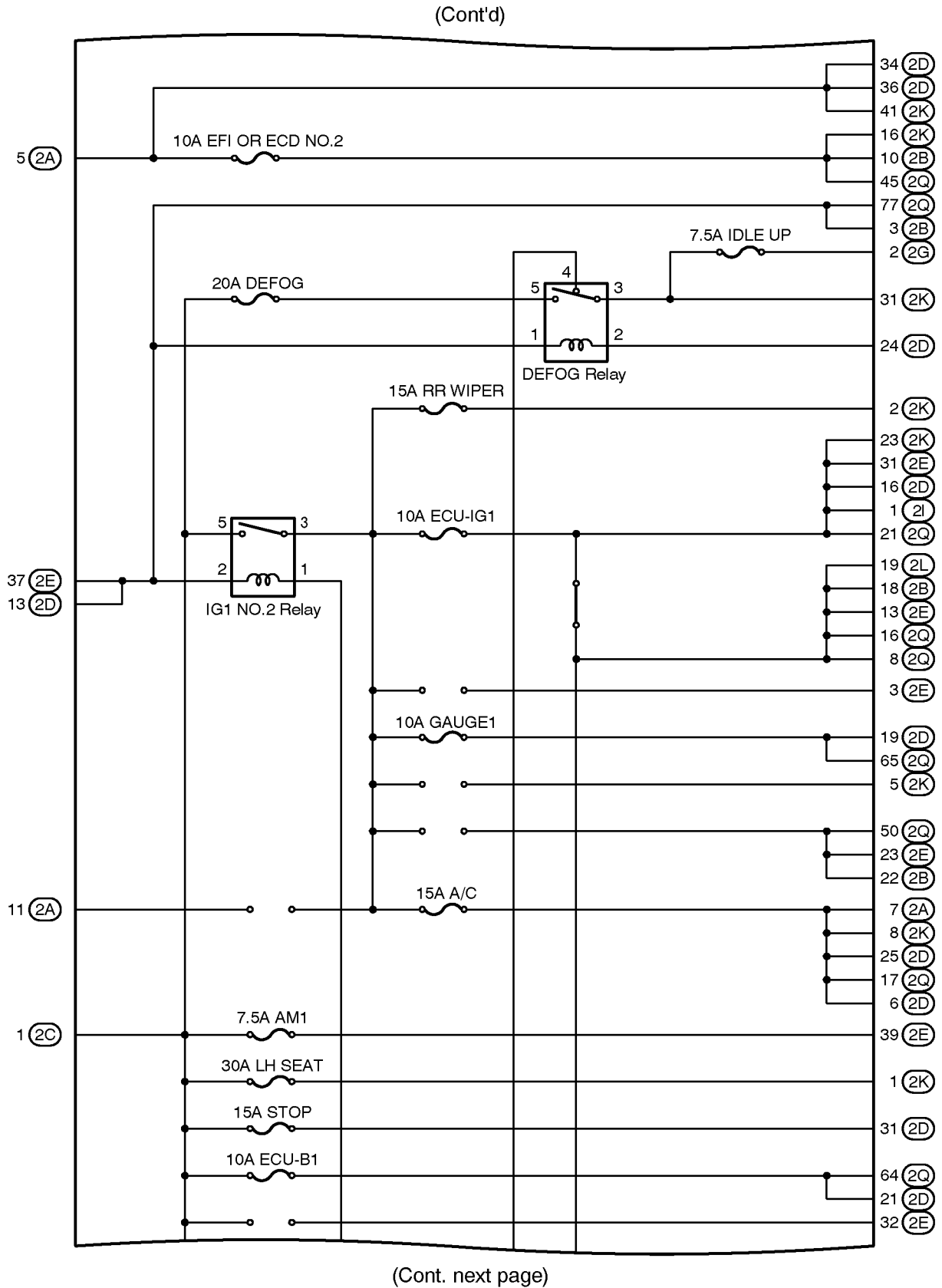
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53	(2Q)	
16	(2A)	
42	(2Q)	
68	(2Q)	•
2	(2B)	
42	(2D)	
25	(2B)	
40	(2D)	
14	(2B)	
38	(2D)	
1	(2A)	
33	(2E)	
1	(2B)	
8	(2D)	
10	(2D)	•
9	(2A)	
6	(2G)	
16	(2B)	
41	(2E)	
10	(2A)	
9	(2G)	
4	(2D)	•
7	(2B)	
39	(2D)	
14	(2A)	•
34	(2K)	
49	(2Q)	
1	(2E)	•
4	(2A)	
6	(2E)	
8	(2A)	
2	(2E)	
15	(2B)	
4	(2E)	
2	(2A)	
29	(2D)	
33	(2D)	•
15	(2A)	
29	(2Q)	
31	(2Q)	•
4	(2B)	•
27	(2K)	
14	(2E)	
37	(2Q)	
28	(2Q)	
84	(2Q)	•
30	(2K)	•
1	(2J)	
72	(2Q)	
28	(2K)	•
8	(2J)	

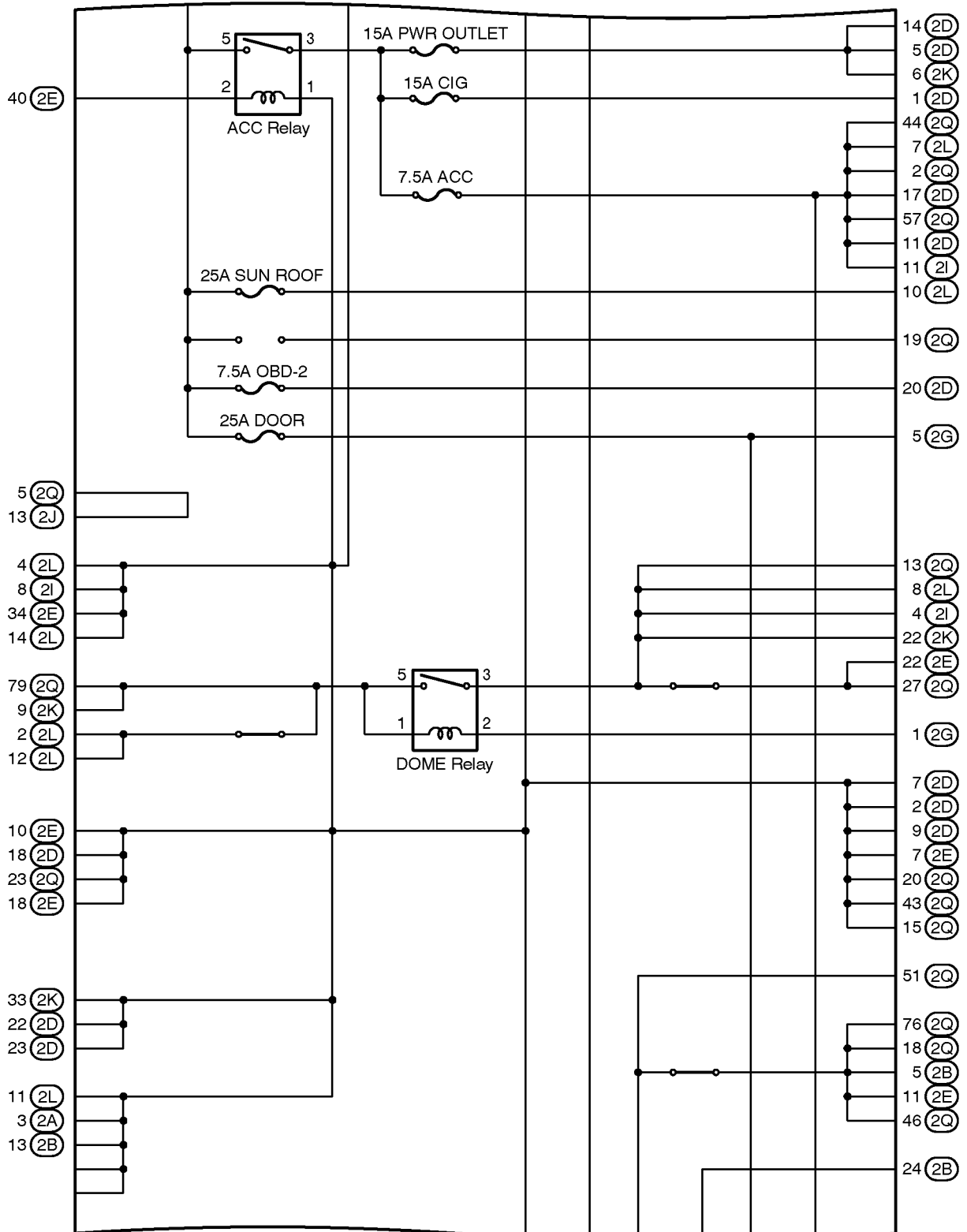
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F RELAY LOCATIONS

[Cowl Side J/B LH Inner Circuit]



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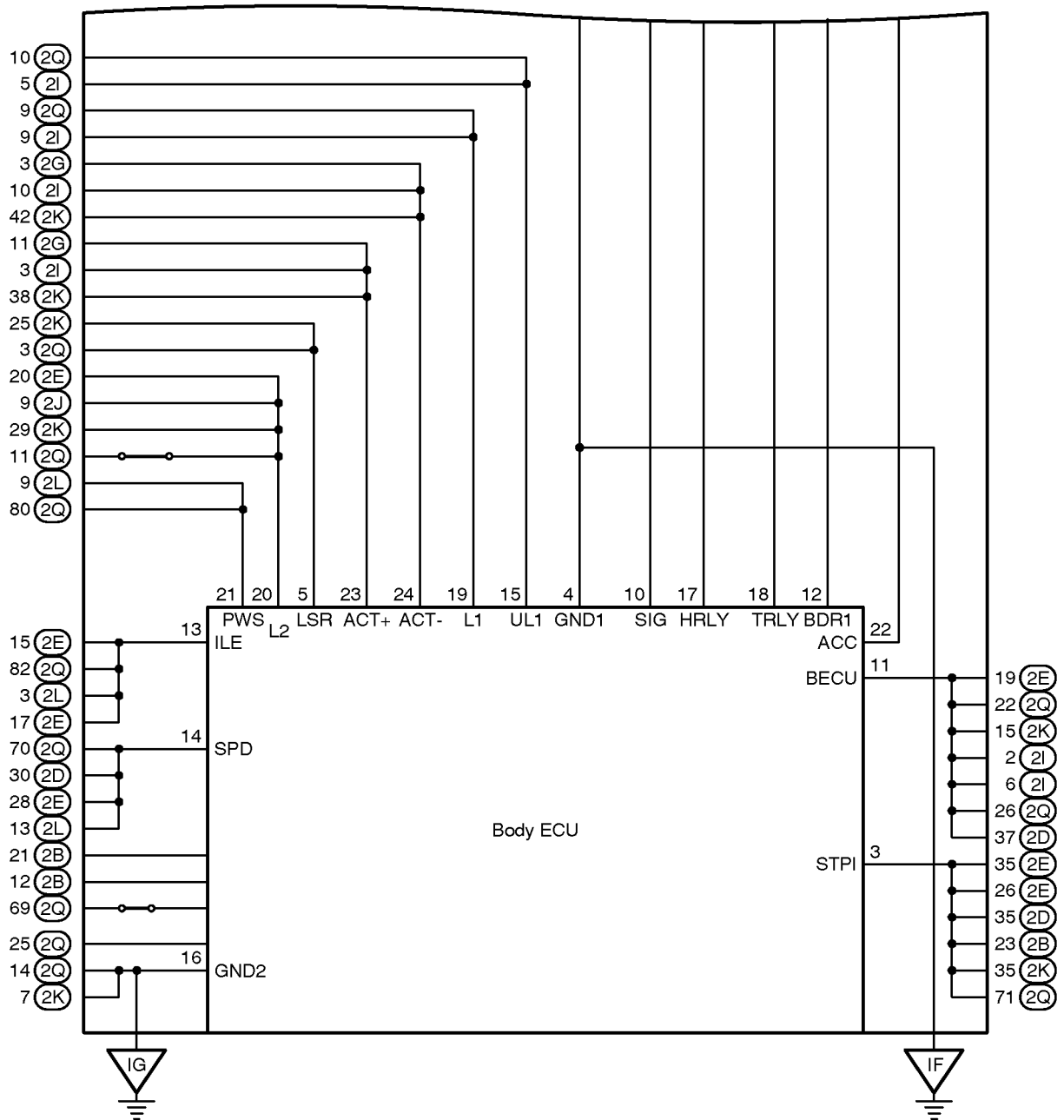


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F RELAY LOCATIONS

[Cowl Side J/B LH Inner Circuit]

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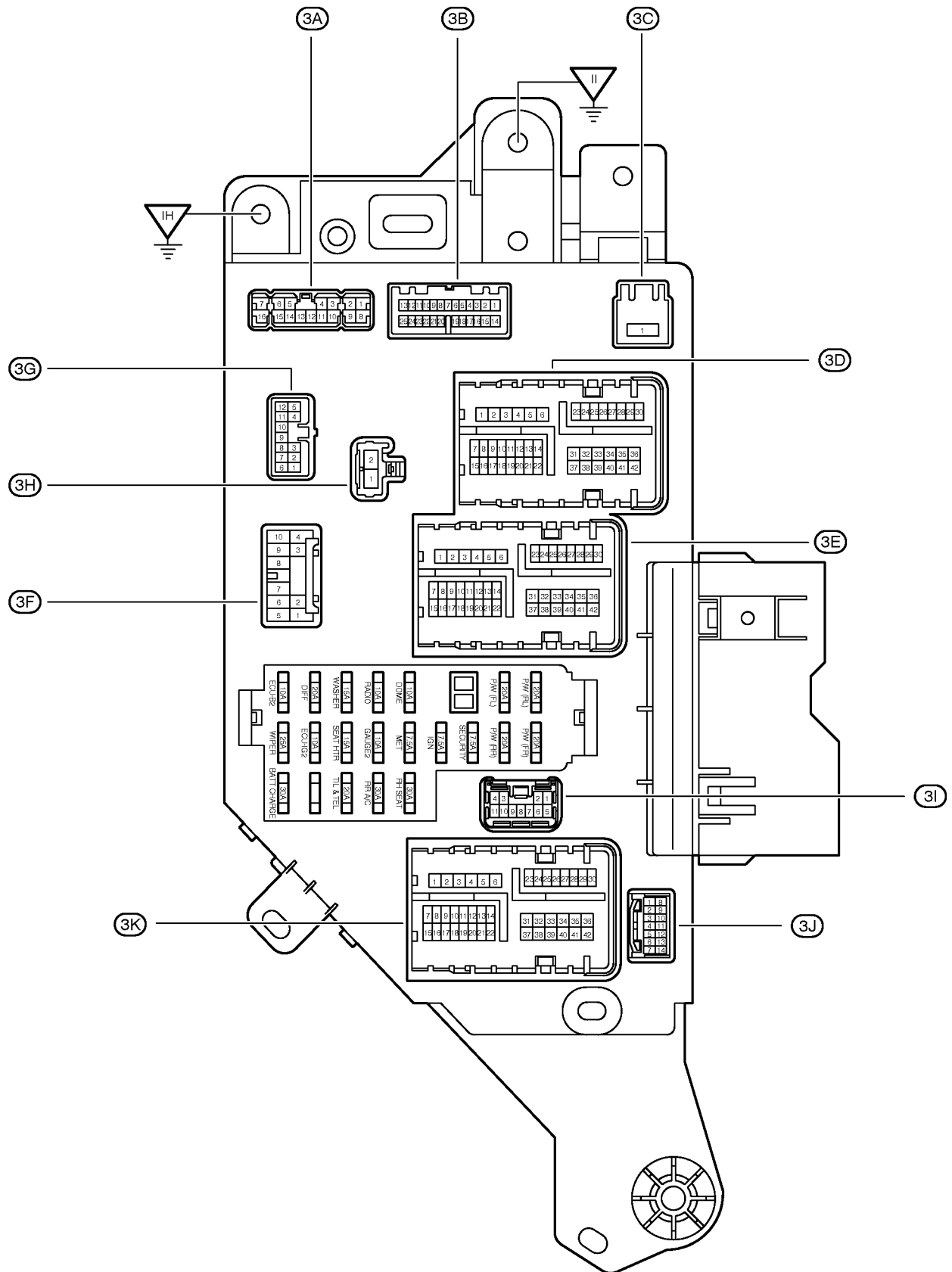


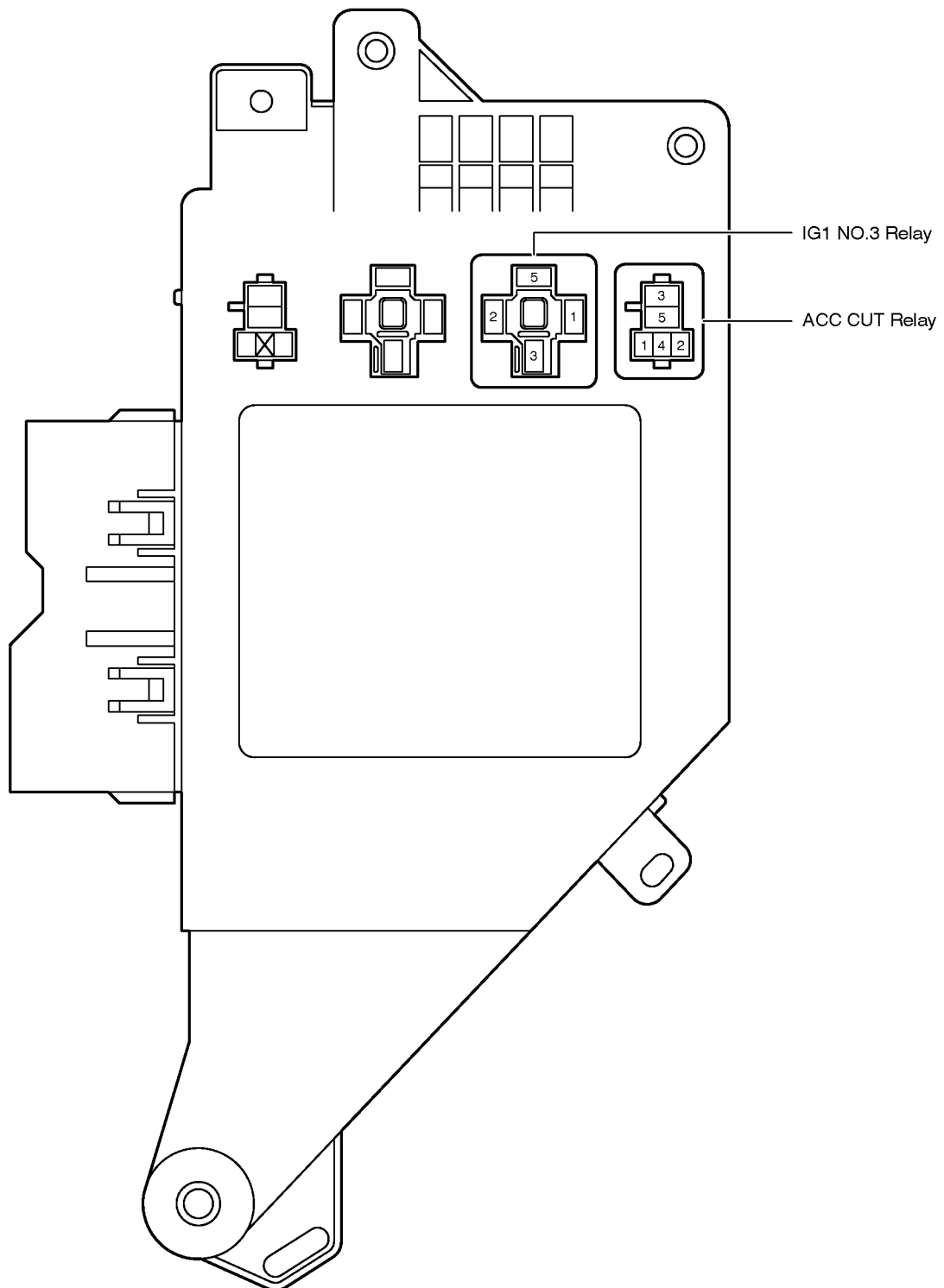
F RELAY LOCATIONS

○ : Cowl Side J/B RH

Right Kick Panel (See Page 20)

(Inner Circuit : See Page 46)



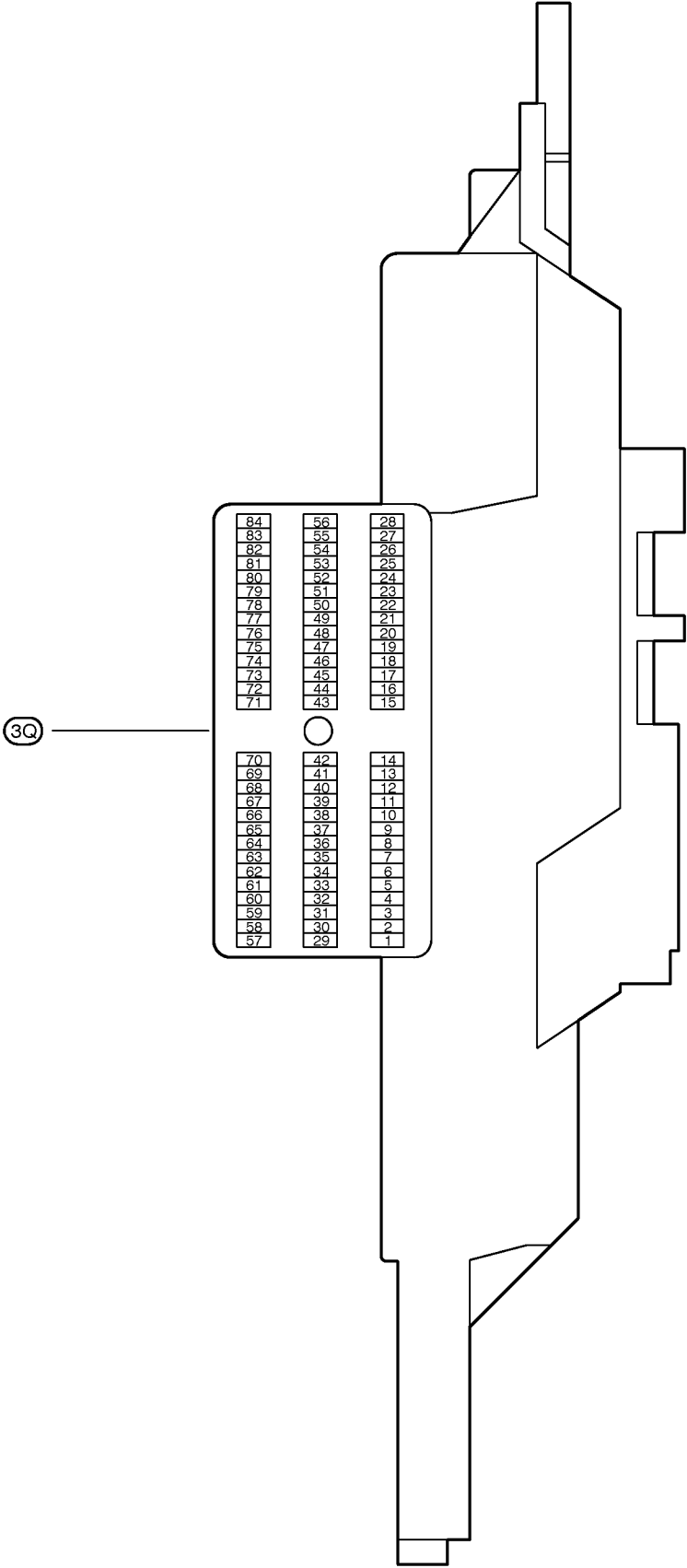


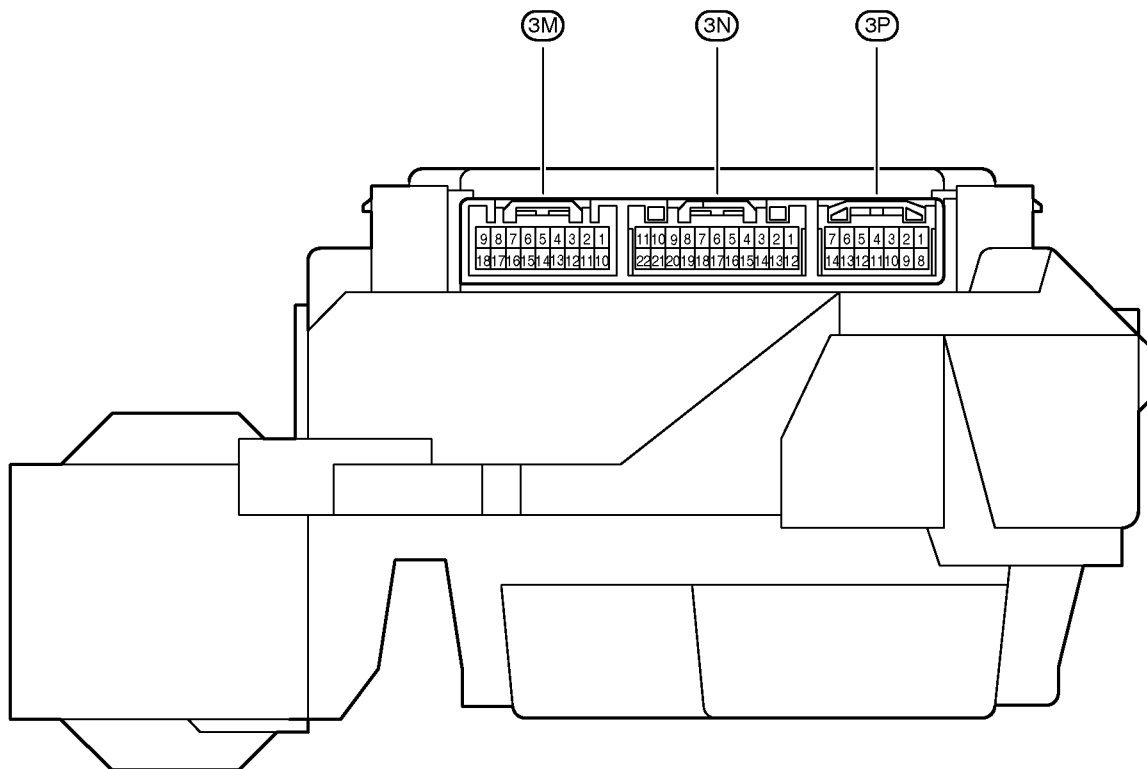
F RELAY LOCATIONS

 : Cowl Side J/B RH

Right Kick Panel (See Page 20)

(Inner Circuit : See Page 46)



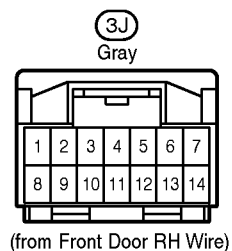
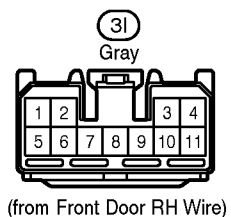
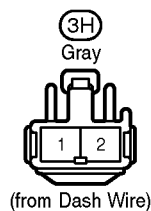
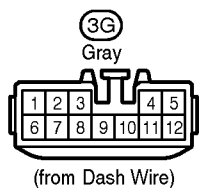
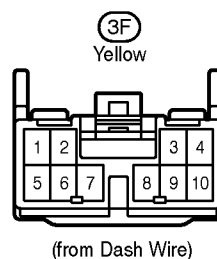
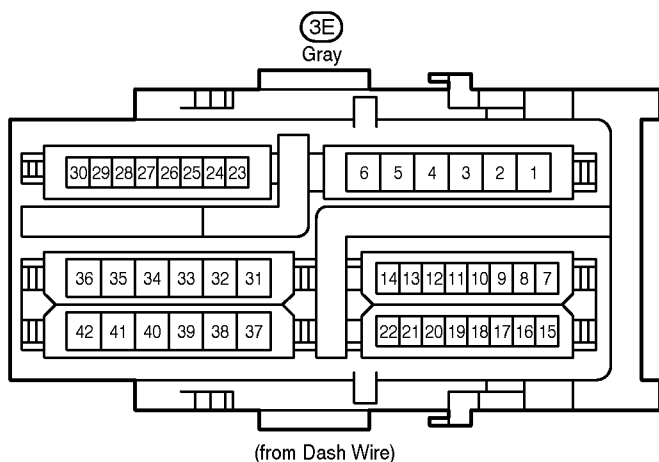
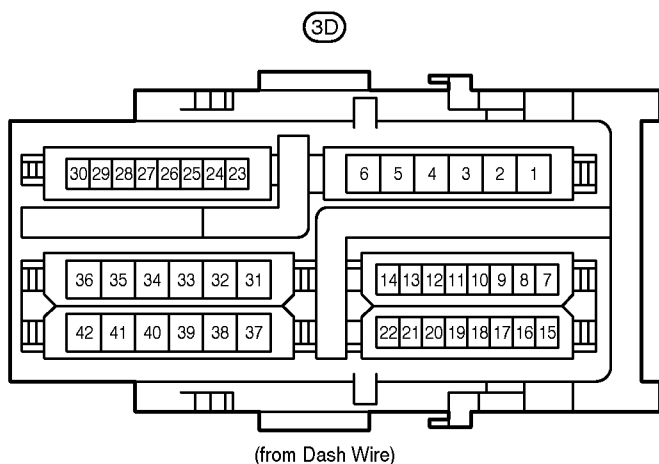
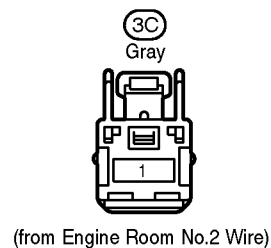
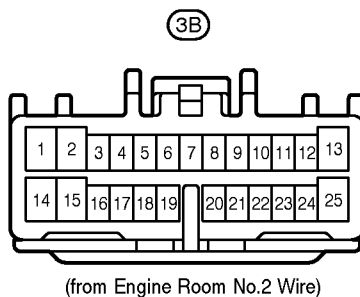
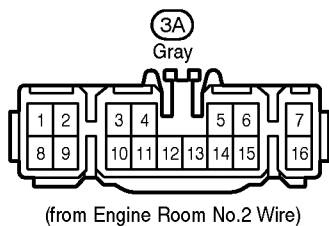


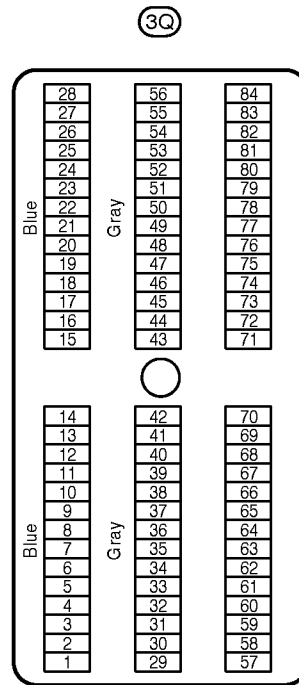
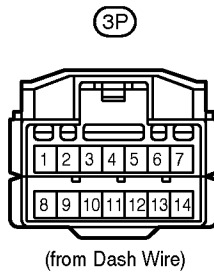
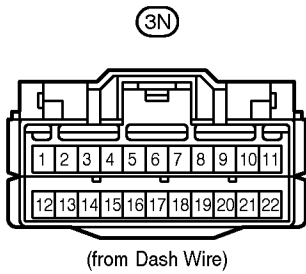
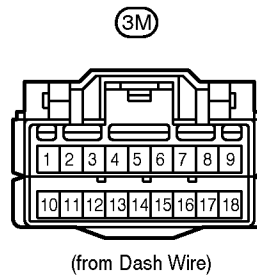
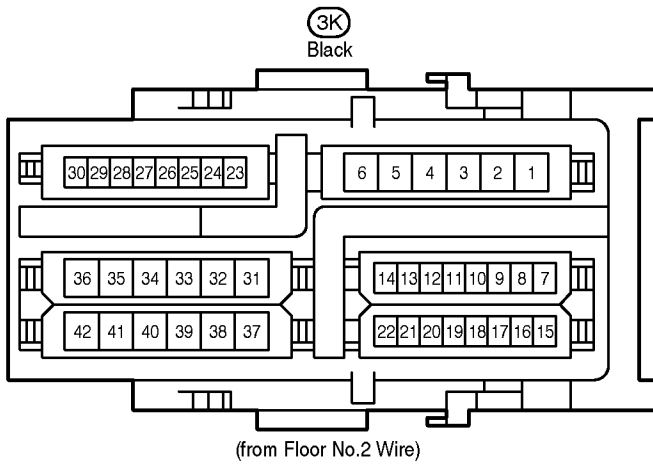
F RELAY LOCATIONS

 : Cowl Side J/B RH

Right Kick Panel (See Page 20)

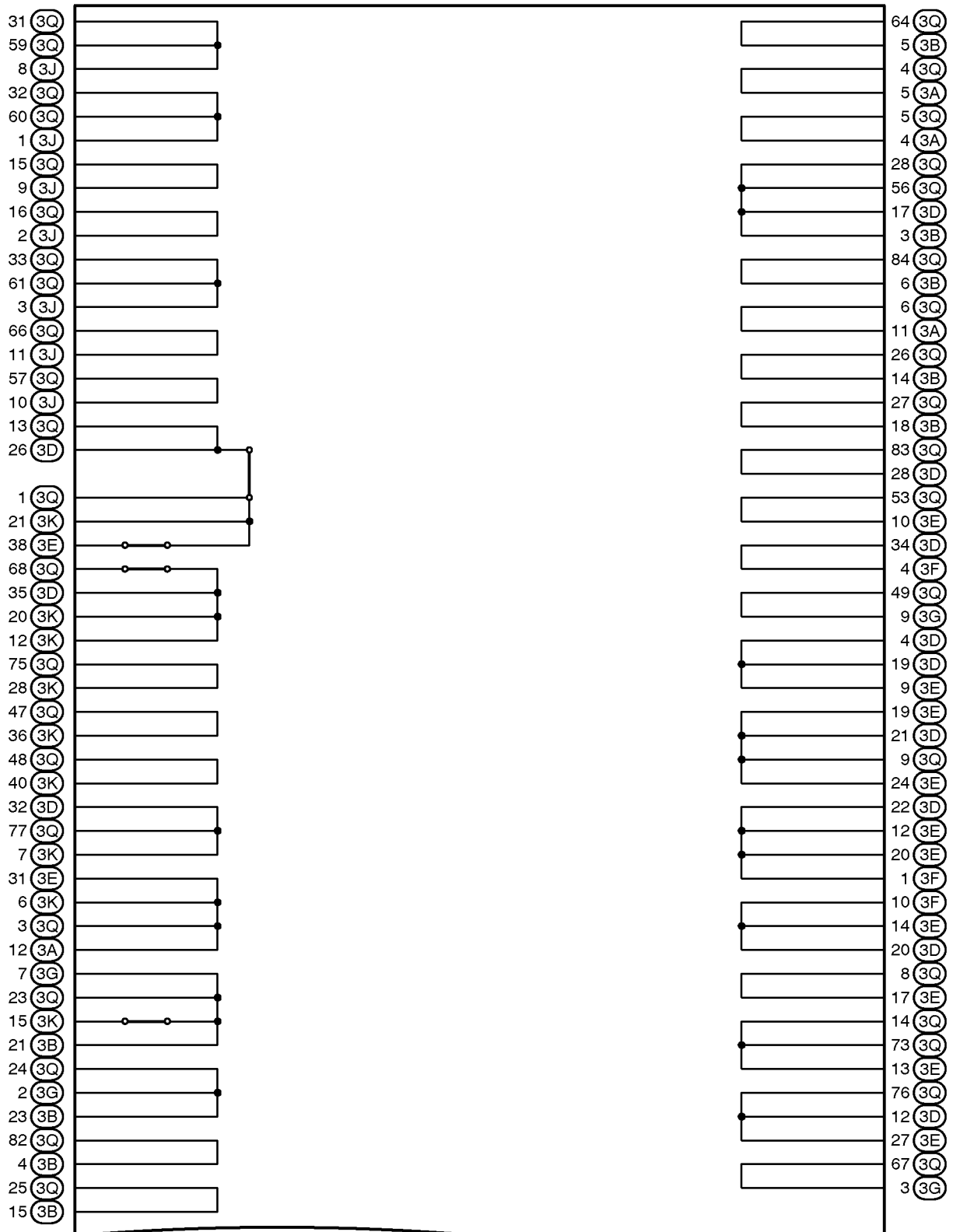
(Inner Circuit : See Page 46)





F RELAY LOCATIONS

[Cowl Side J/B RH Inner Circuit]



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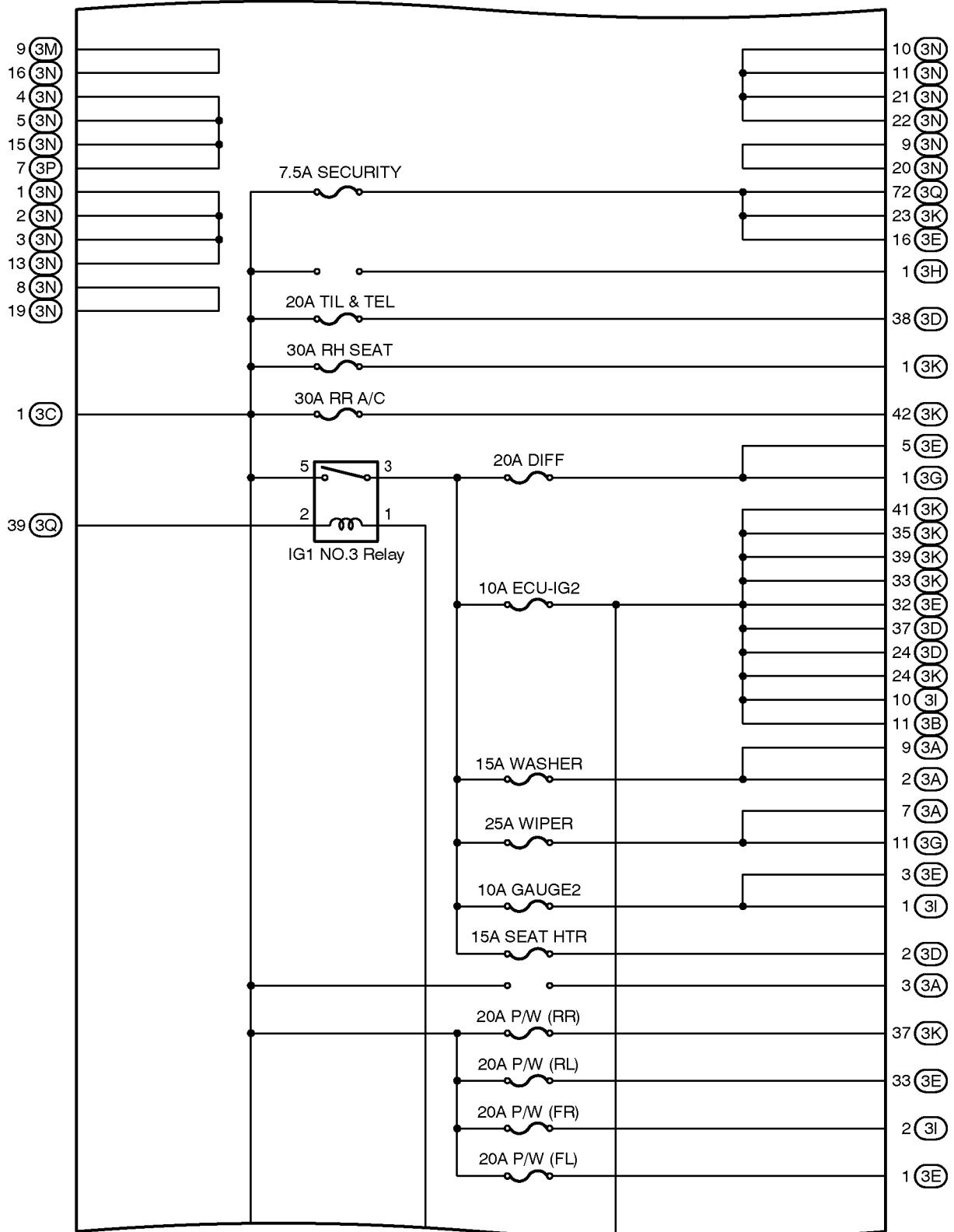
26 (3E)			36 (3Q)
10 (3Q)			27 (3K)
21 (3E)			12 (3J)
13 (3D)			41 (3E)
40 (3E)			40 (3D)
42 (3Q)			23 (3E)
14 (3J)			18 (3E)
2 (3Q)			46 (3Q)
7 (3D)			74 (3Q)
13 (3K)			25 (3E)
6 (3A)			81 (3Q)
80 (3Q)			30 (3E)
5 (3D)			2 (3F)
22 (3K)			69 (3Q)
7 (3J)			28 (3E)
11 (3Q)			15 (3E)
8 (3F)			26 (3K)
14 (3A)			8 (3P)
11 (3E)			9 (3P)
54 (3Q)			1 (3P)
5 (3G)			2 (3P)
6 (3D)			3 (3P)
20 (3B)			10 (3M)
8 (3B)			11 (3M)
22 (3Q)			7 (3N)
15 (3D)			10 (3P)
16 (3B)			3 (3M)
19 (3Q)			12 (3M)
30 (3K)			13 (3M)
4 (3J)			11 (3P)
18 (3K)			4 (3M)
10 (3B)			5 (3M)
2 (3E)			14 (3M)
13 (3B)			12 (3P)
8 (3G)			1 (3M)
15 (3A)			13 (3P)
4 (3G)			2 (3M)
10 (3A)			14 (3P)
12 (3G)			6 (3M)
13 (3A)			5 (3P)
37 (3Q)			15 (3M)
41 (3D)			6 (3P)
7 (3F)			16 (3M)
25 (3K)			17 (3M)
30 (3D)			18 (3N)
5 (3F)			7 (3M)
62 (3Q)			12 (3N)
34 (3Q)			8 (3M)
29 (3K)			14 (3N)
5 (3J)			

(Cont. next page)

F RELAY LOCATIONS

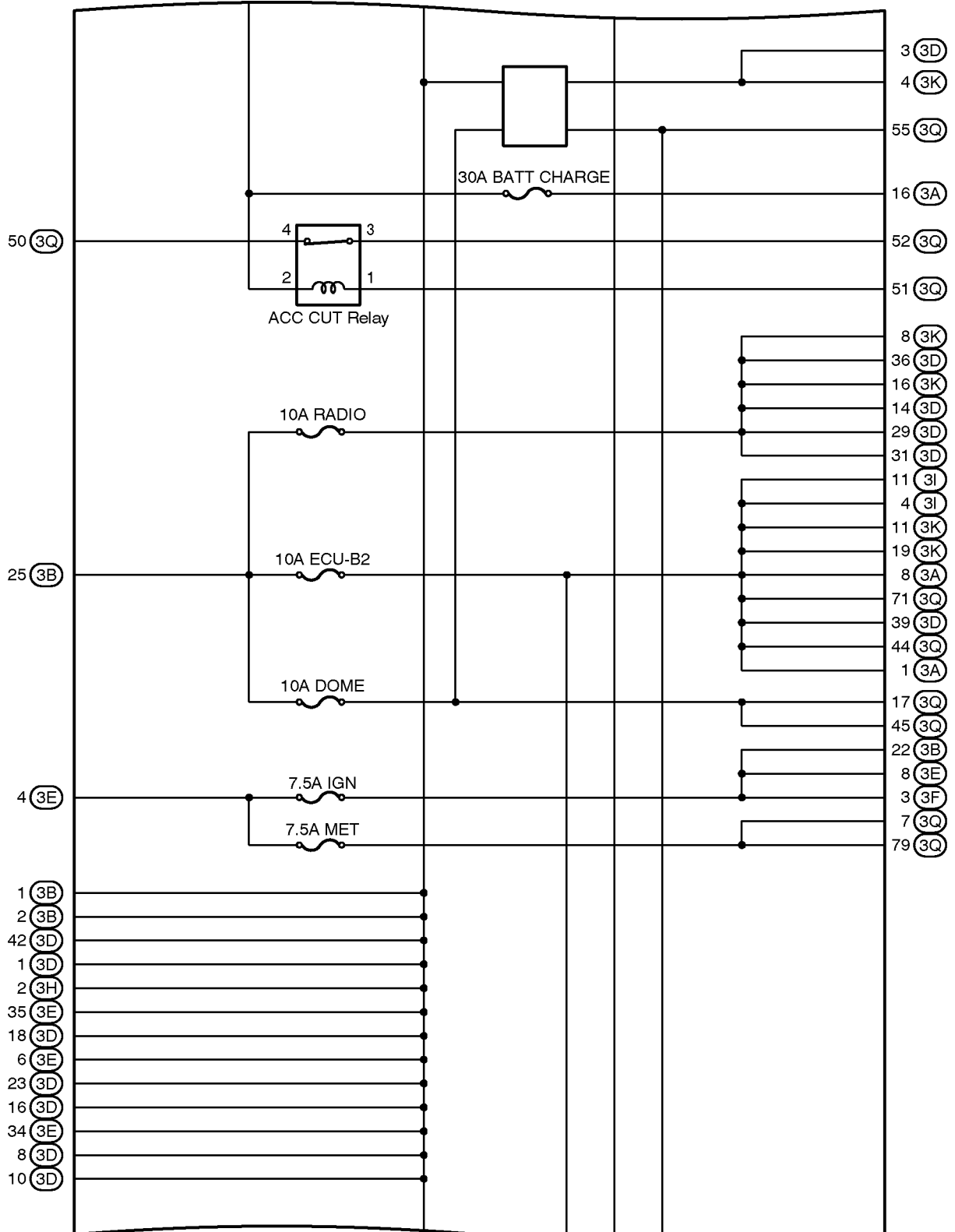
[Cowl Side J/B RH Inner Circuit]

(Cont'd)



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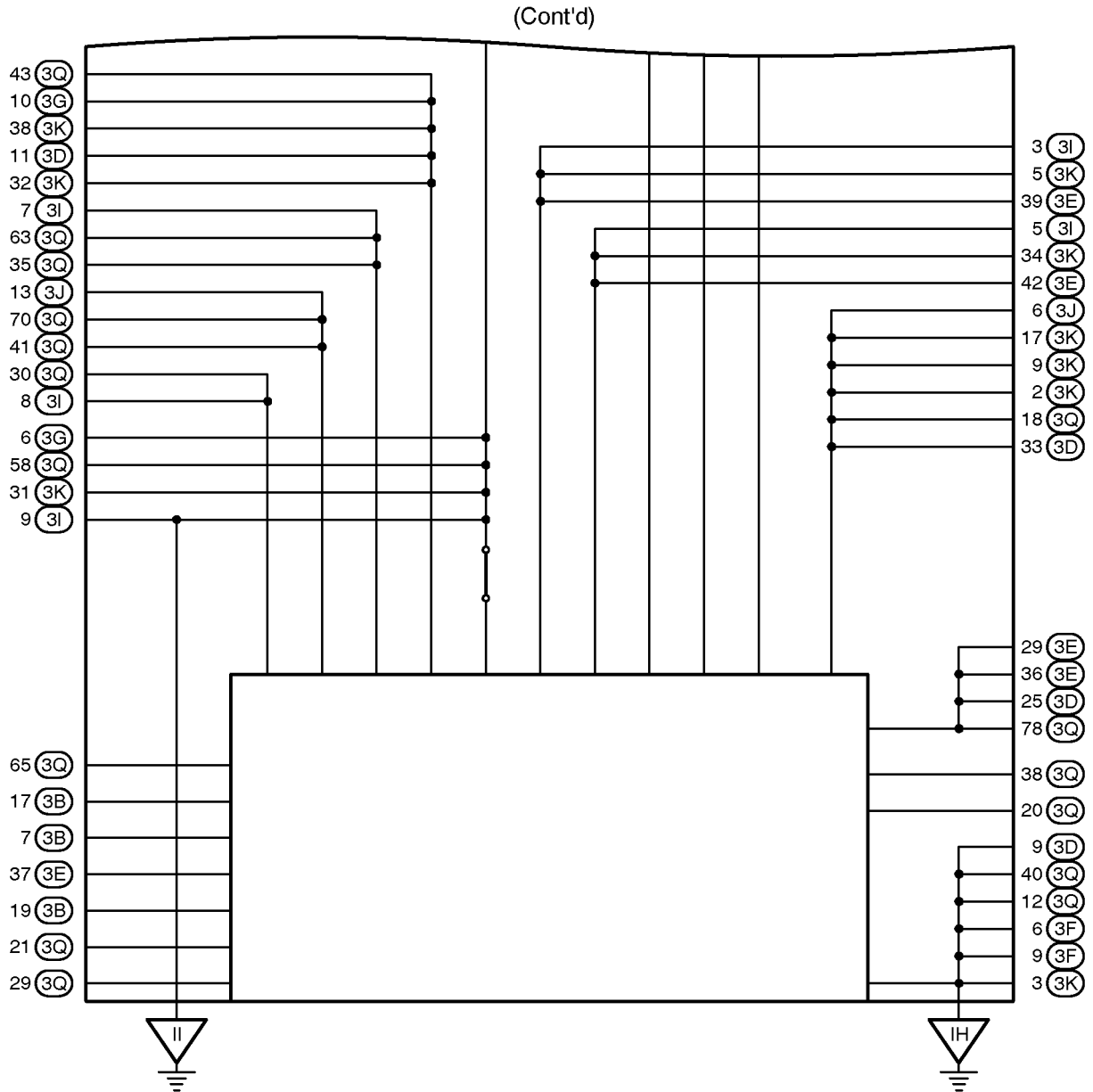
(Cont'd)



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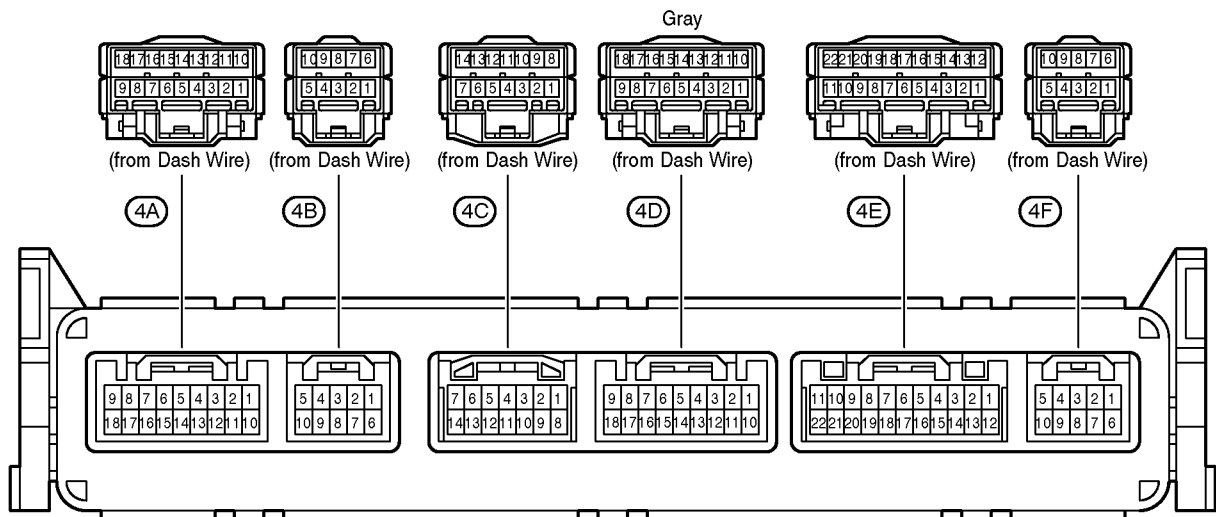
F RELAY LOCATIONS

[Cowl Side J/B RH Inner Circuit]



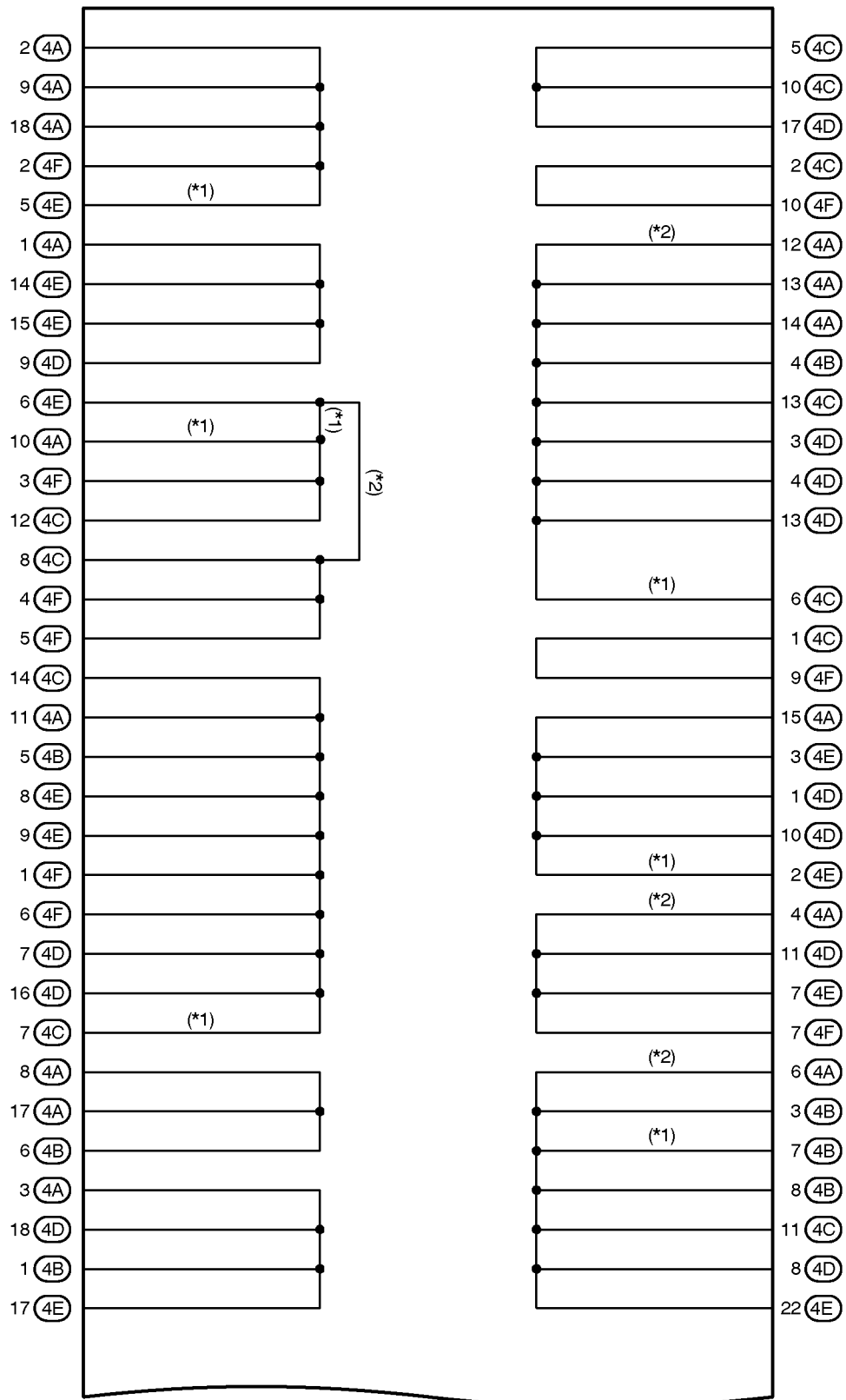
F RELAY LOCATIONS

 : J/B No.4	Instrument Panel Center (See Page 20)
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F RELAY LOCATIONS

[J/B No.4 Inner Circuit]



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(Cont'd)

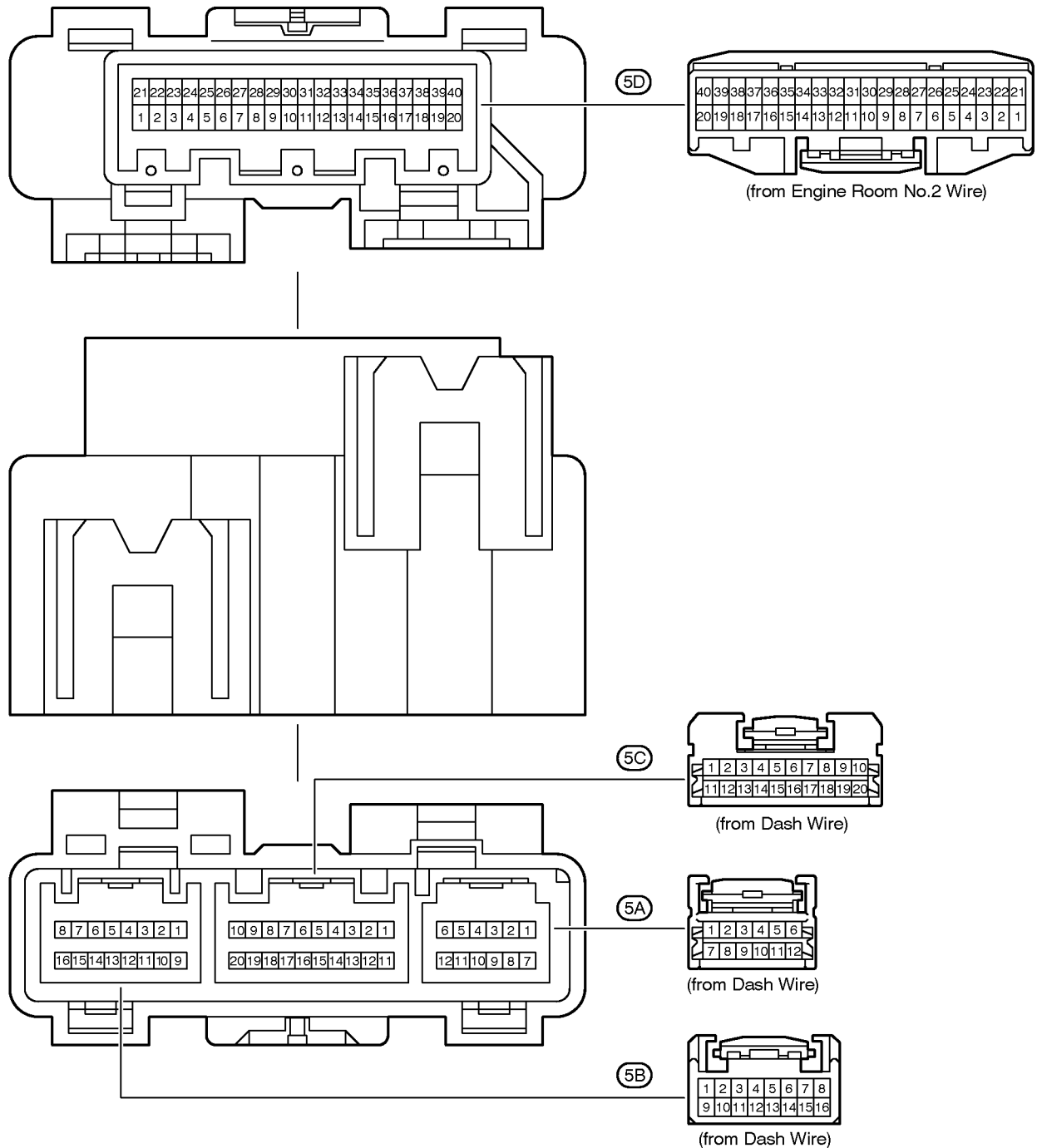
2 (4B)			9 (4C)
12 (4D)			13 (4E)
21 (4E)			4 (4C)
10 (4E)	(*1)		19 (4E)
2 (4D)		(*2)	5 (4A)
12 (4E)			10 (4B)
5 (4D)			6 (4D)
14 (4D)			15 (4D)
20 (4E)			11 (4E)
4 (4E)			9 (4B)
3 (4C)	(*1)		
16 (4A)			
1 (4E)	(*2)		

* 1:w/ Navigation System
* 2:w/o Navigation System

F RELAY LOCATIONS

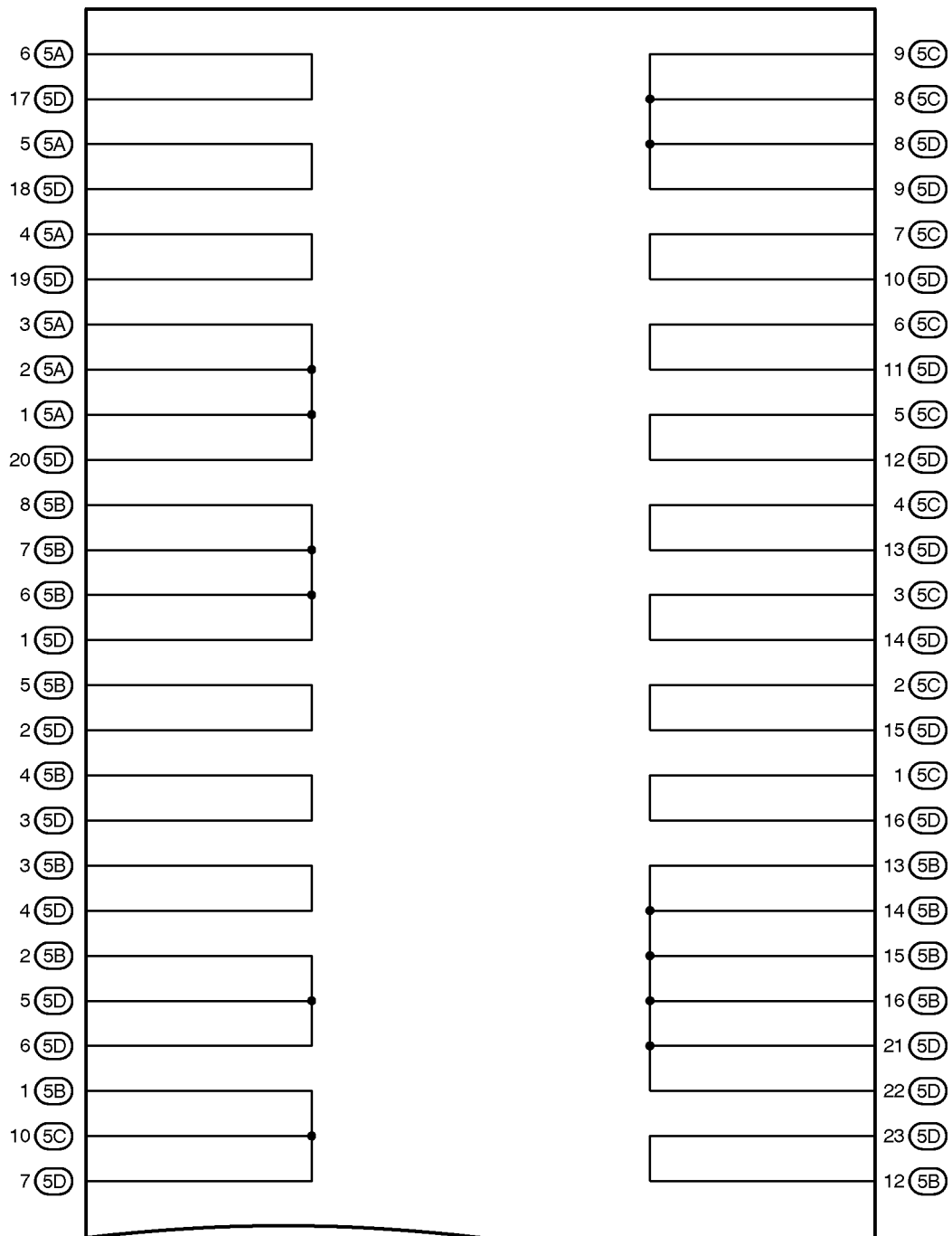
○ : J/B No.5

Behind the Combination Meter (See Page 20)



F RELAY LOCATIONS

[J/B No.5 Inner Circuit]



(Cont. next page)

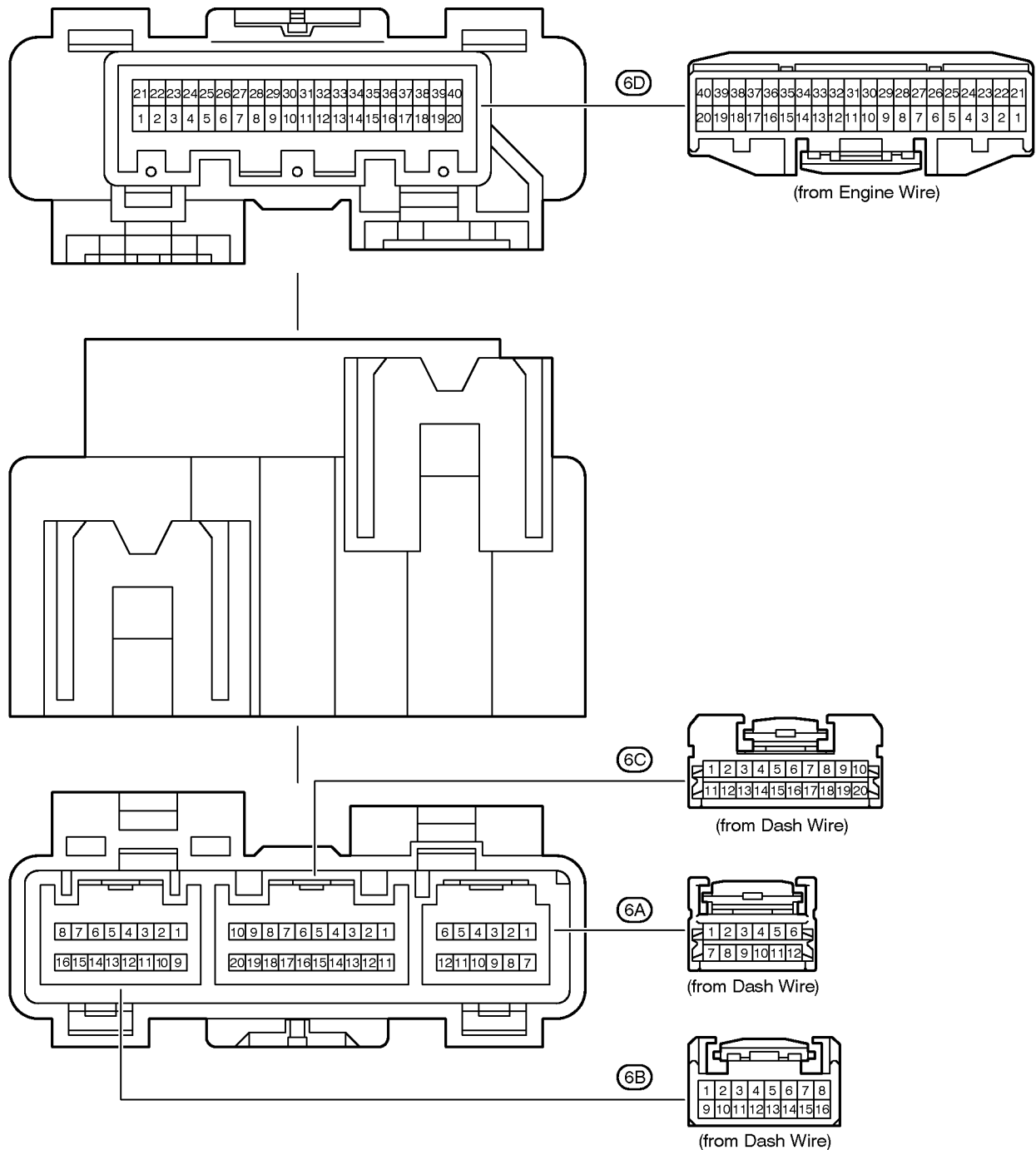
(Cont'd)

24 (5D)			33 (5D)
11 (5B)			14 (5C)
25 (5D)			34 (5D)
10 (5B)			13 (5C)
26 (5D)			35 (5D)
9 (5B)		•	36 (5D)
27 (5D)		•	12 (5C)
20 (5C)			11 (5C)
28 (5D)			12 (5A)
19 (5C)			37 (5D)
29 (5D)			38 (5D)
18 (5C)			11 (5A)
30 (5D)			39 (5D)
17 (5C)	•		10 (5A)
31 (5D)	•		40 (5D)
16 (5C)		•	9 (5A)
32 (5D)		•	8 (5A)
15 (5C)			7 (5A)

F RELAY LOCATIONS

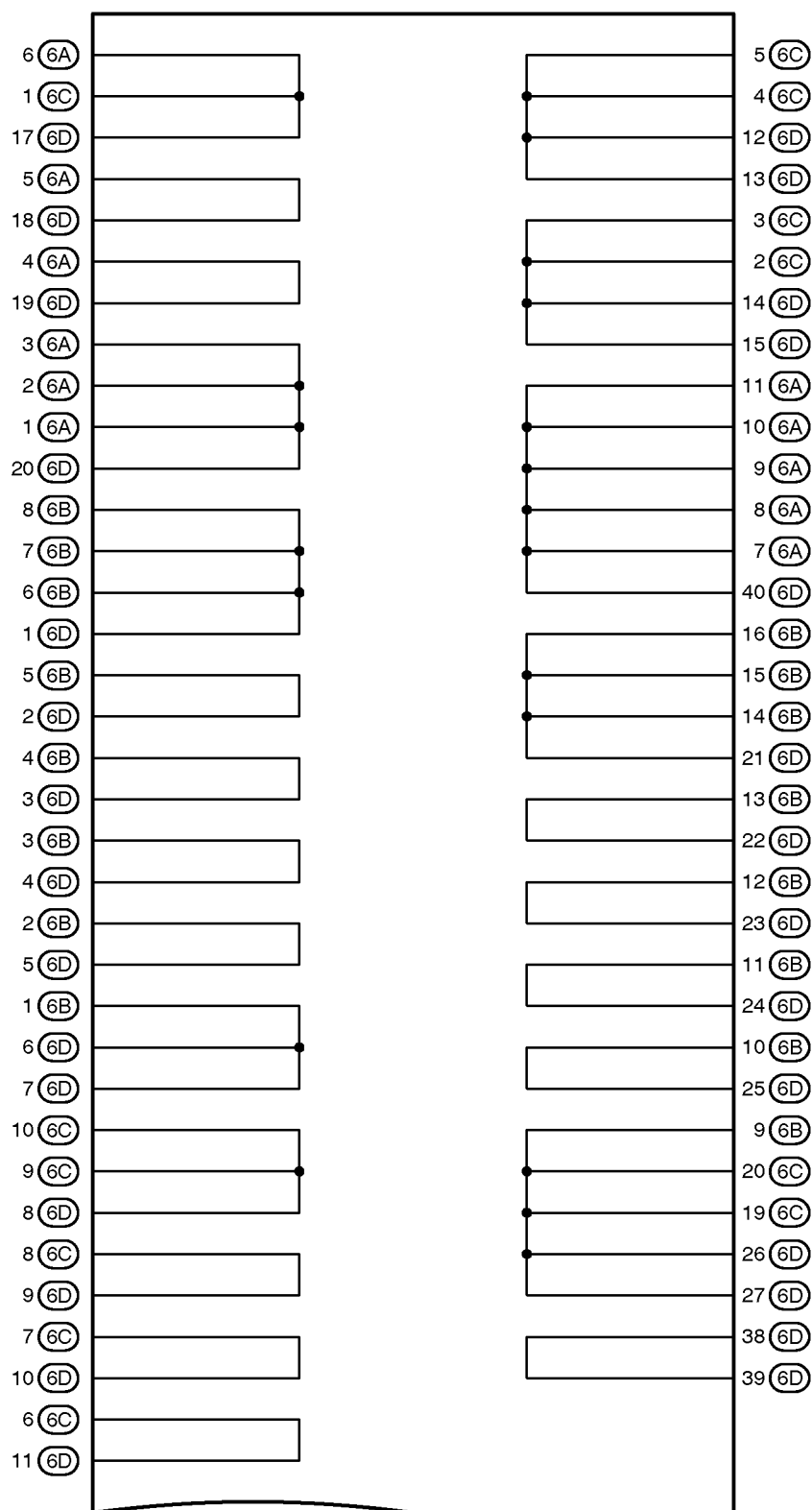
○ : J/B No.6

Behind the Glove Box (See Page 20)



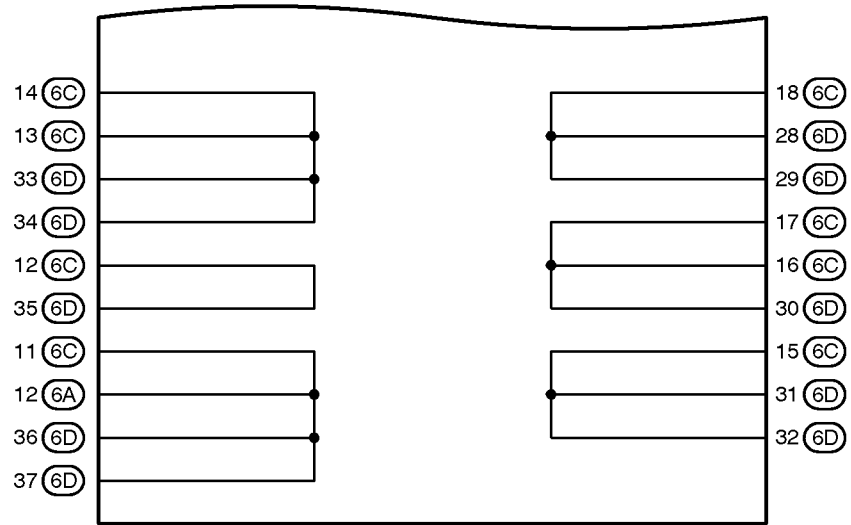
F RELAY LOCATIONS

[J/B No.6 Inner Circuit]



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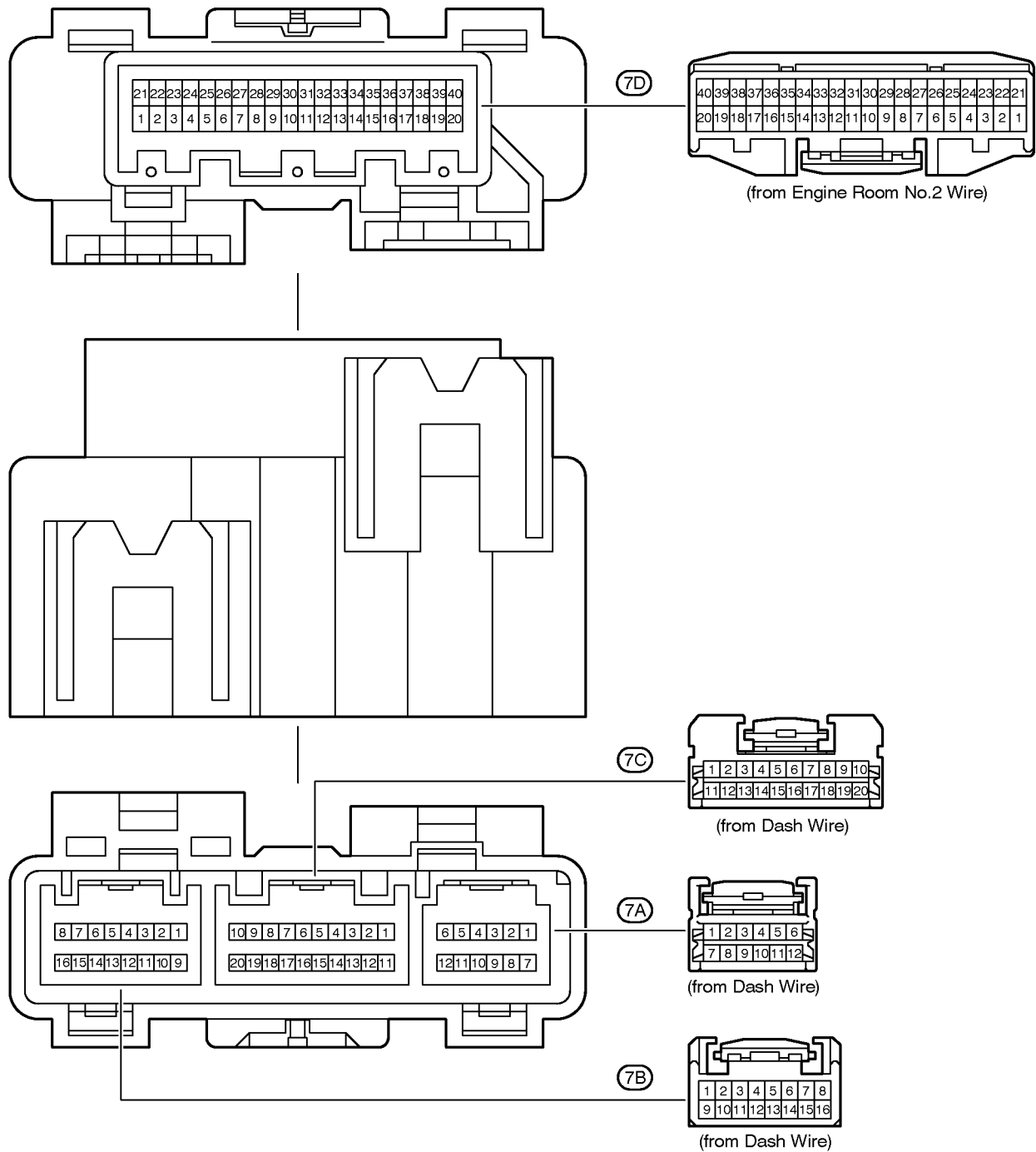
(Cont'd)



F RELAY LOCATIONS

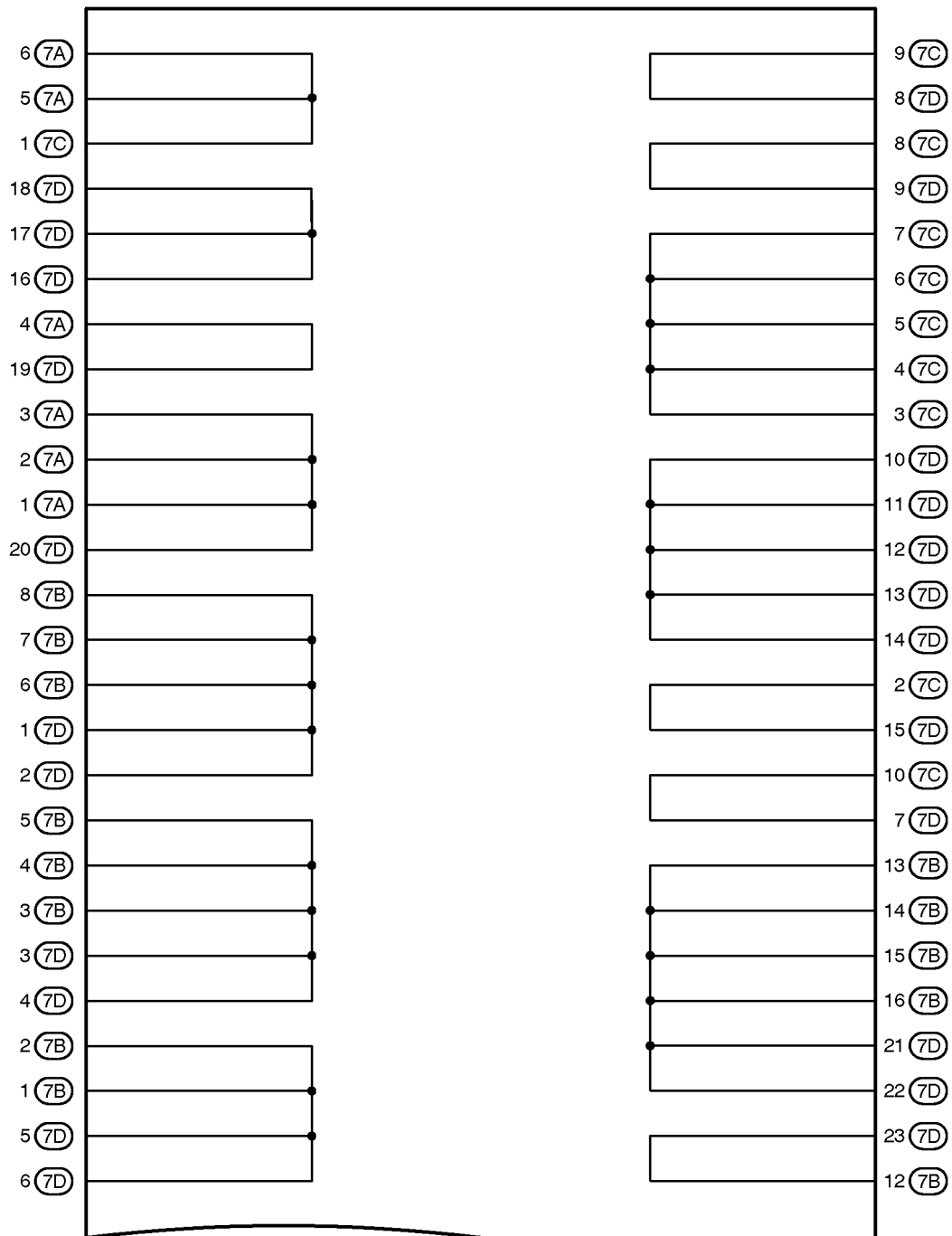
○ : J/B No.7

Behind the Glove Box (See Page 20)



F RELAY LOCATIONS

[J/B No.7 Inner Circuit]



(Cont. next page)

(Cont'd)

24 (7D)			33 (7D)
11 (7B)			14 (7C)
25 (7D)			34 (7D)
10 (7B)			13 (7C)
26 (7D)			35 (7D)
9 (7B)			36 (7D)
27 (7D)			12 (7C)
20 (7C)			37 (7D)
28 (7D)			11 (7C)
19 (7C)			12 (7A)
29 (7D)			38 (7D)
18 (7C)			11 (7A)
30 (7D)			39 (7D)
17 (7C)			10 (7A)
31 (7D)			40 (7D)
16 (7C)			9 (7A)
32 (7D)			8 (7A)
15 (7C)			7 (7A)

2005 LAND CRUISER ELECTRICAL WIRING DIAGRAM SYSTEM CIRCUITS

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