

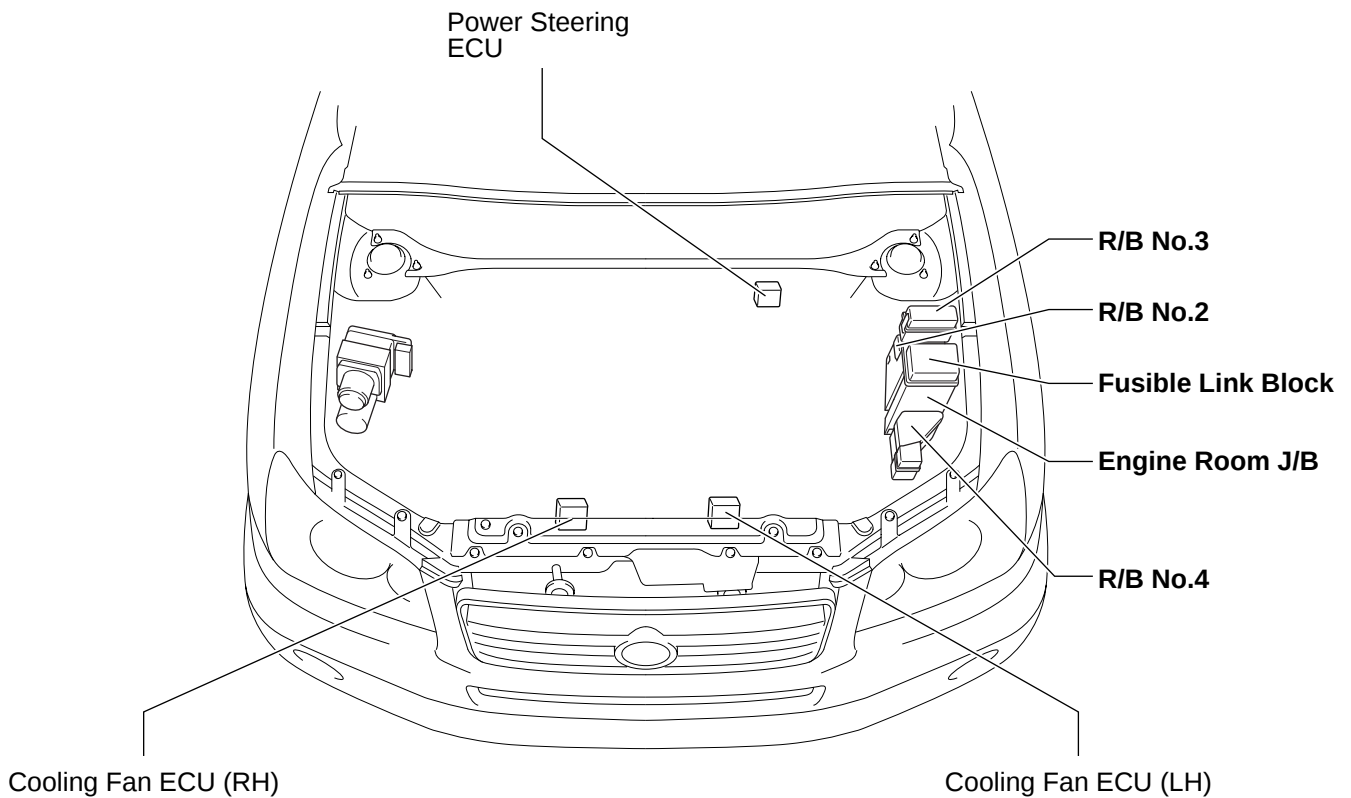
2006 HIGHLANDER HYBRID VEHICLE ELECTRICAL WIRING DIAGRAM SYSTEM CIRCUITS

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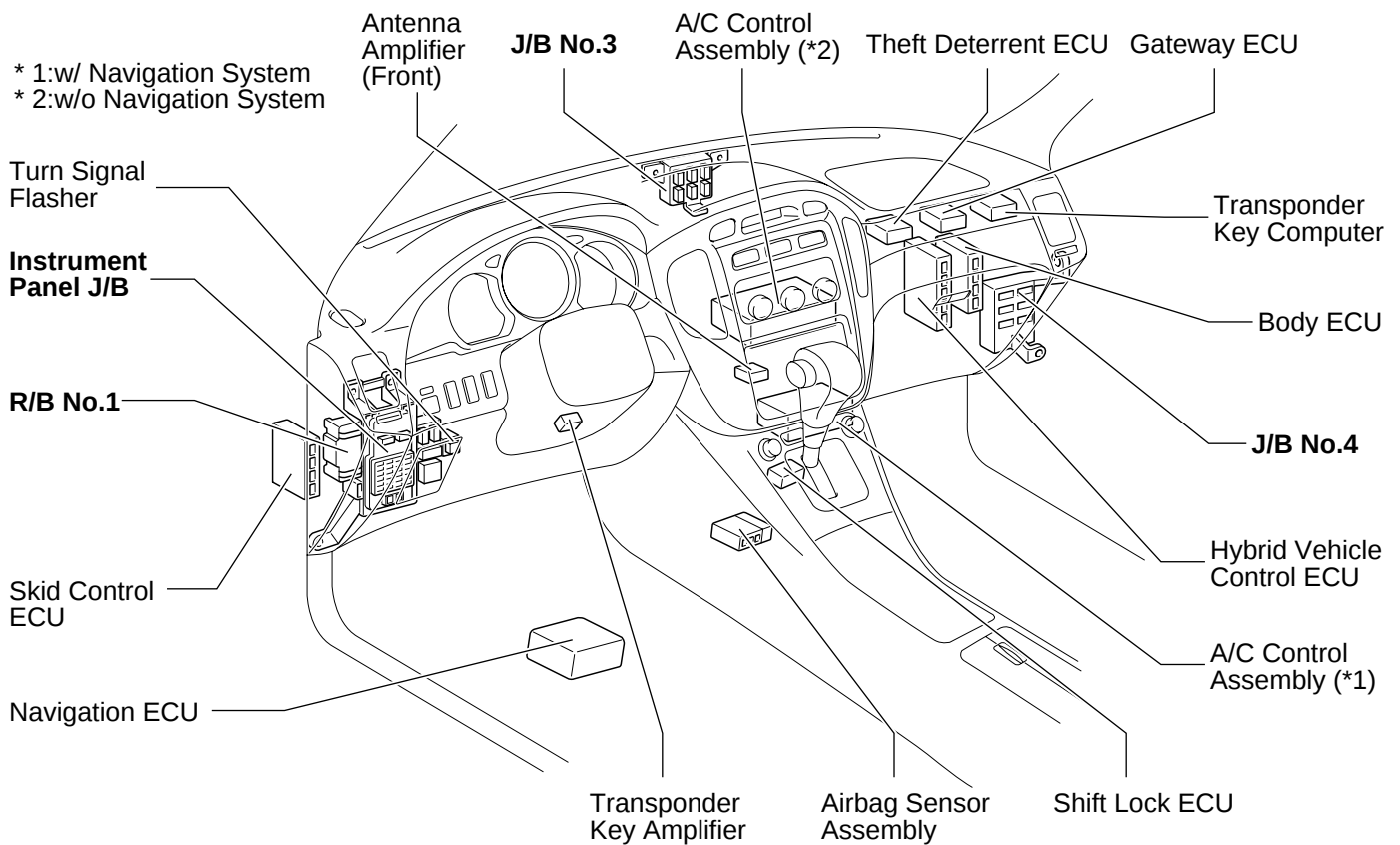
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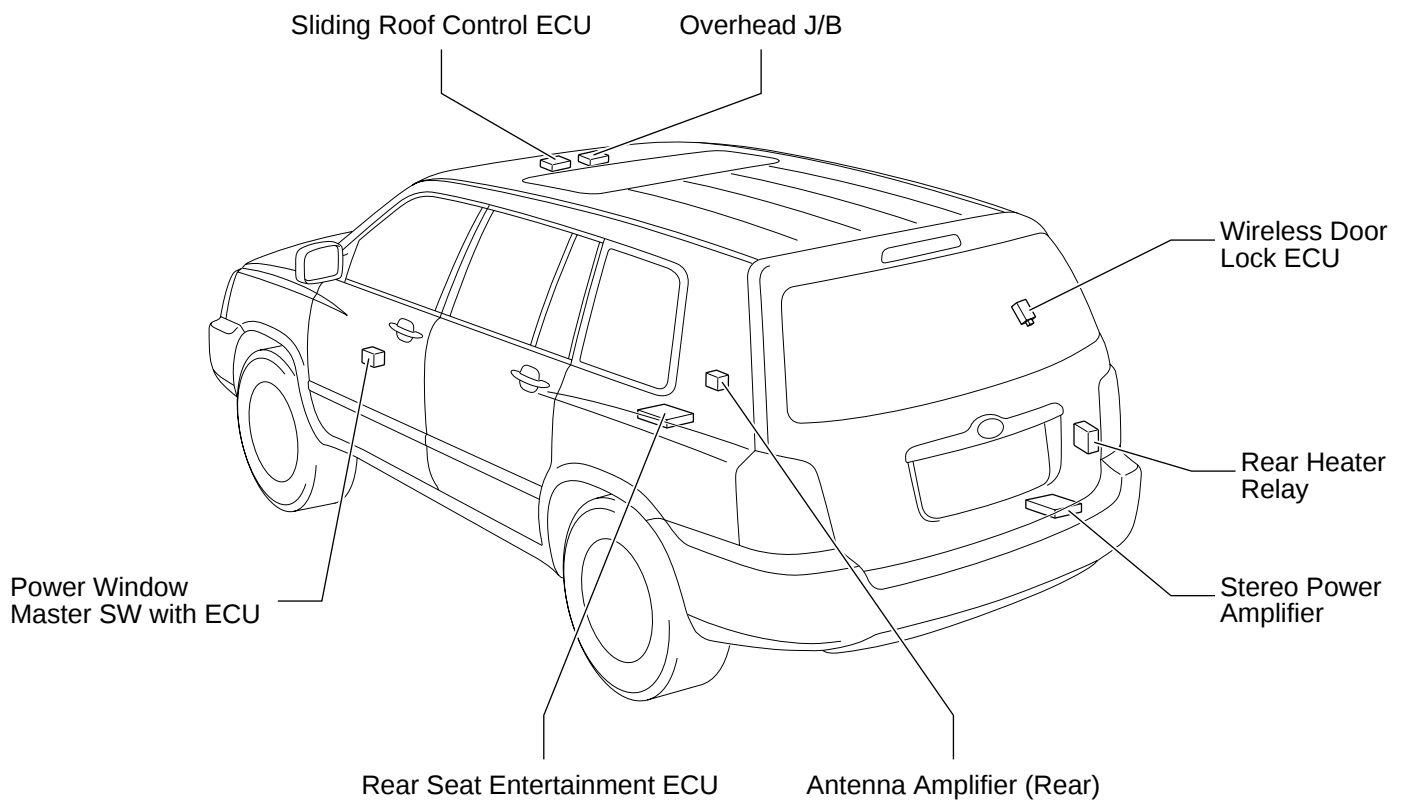
F RELAY LOCATIONS

[Engine Compartment]



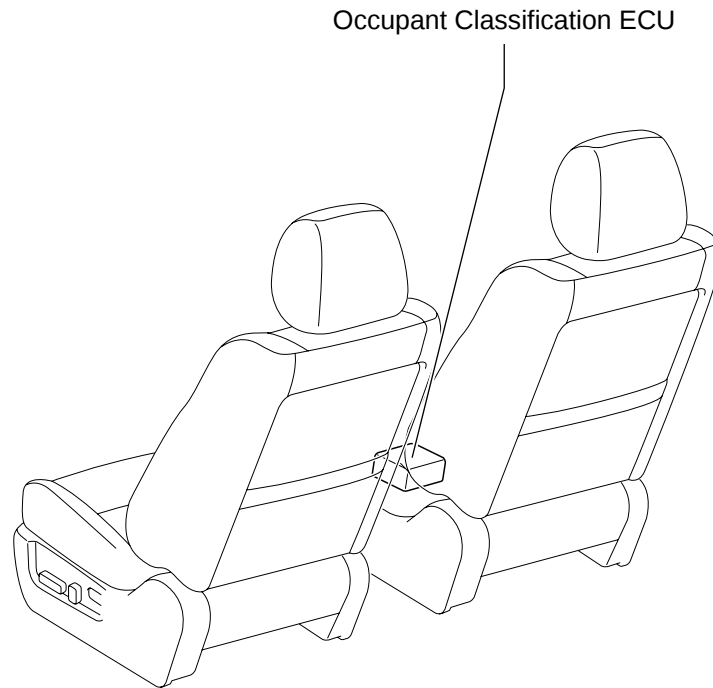
[Instrument Panel]



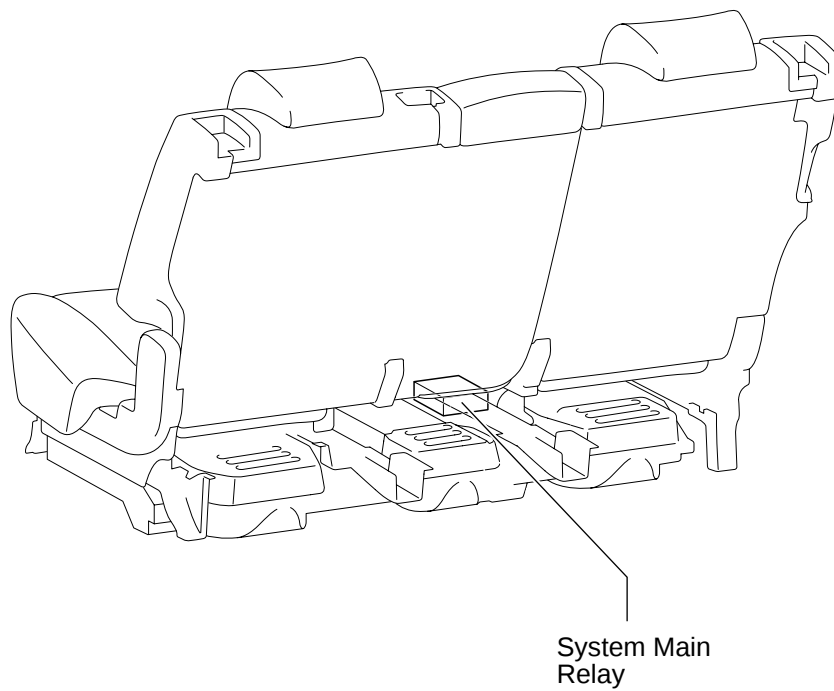
[Body]

F RELAY LOCATIONS

[Front Seat]



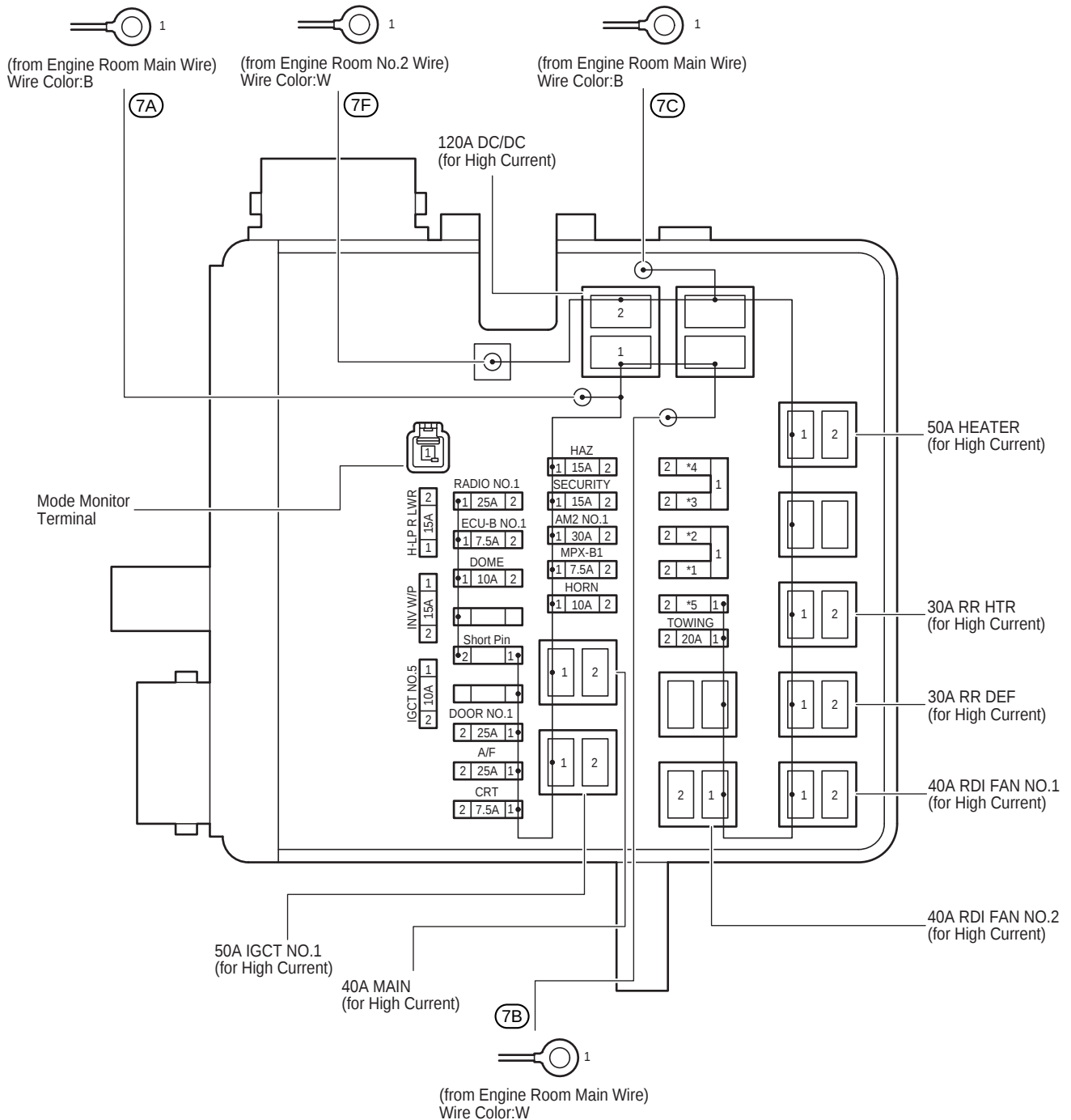
[Rear Seat]



F RELAY LOCATIONS

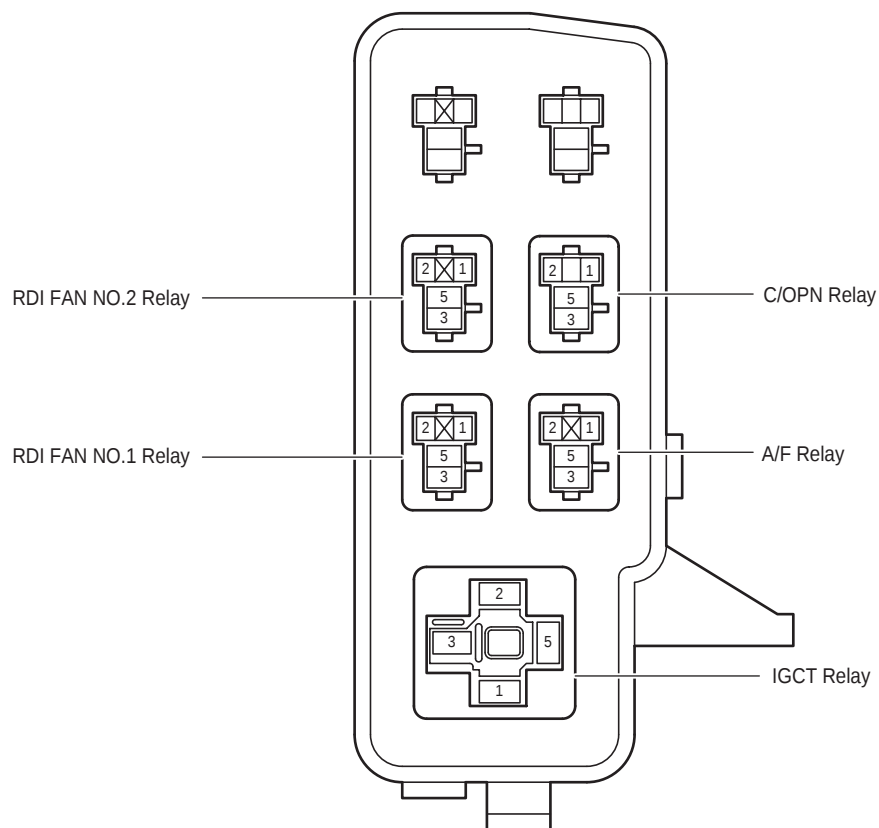
⑦ : Fusible Link Block Engine Compartment Left (See Page 20)

- * 1:15A H-LP R UPR
- * 2:15A H-LP L UPR
- * 3:15A H-LP L LWR
- * 4:7.5A DRL
- * 5:20A PWR OUTLET NO.2



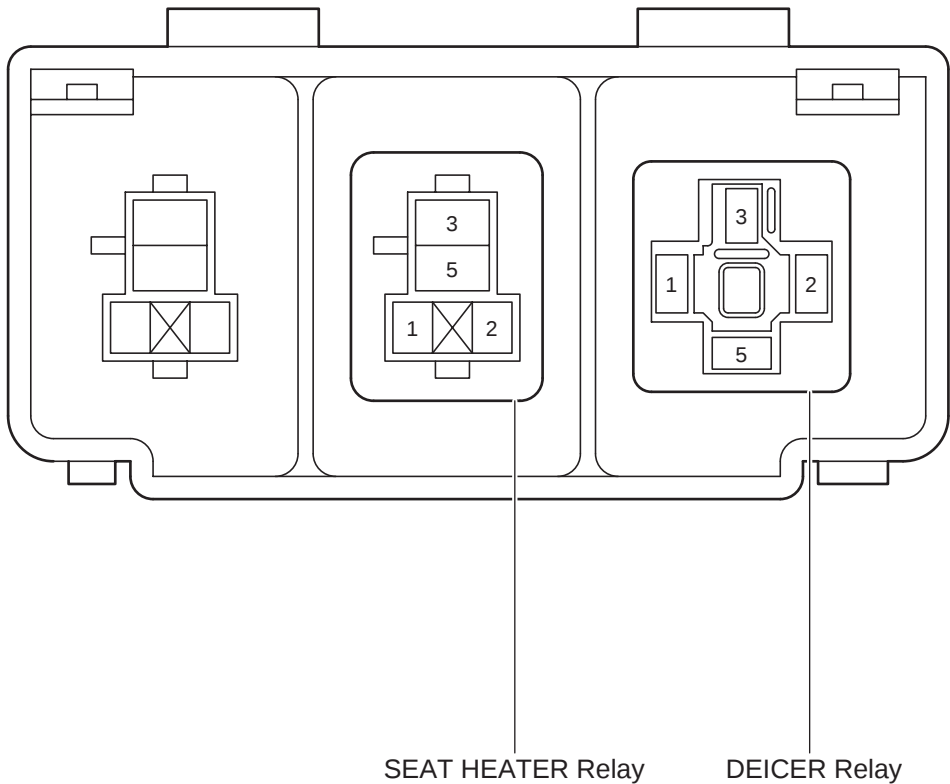
② : R/B No.2

Engine Compartment Left (See Page 20)

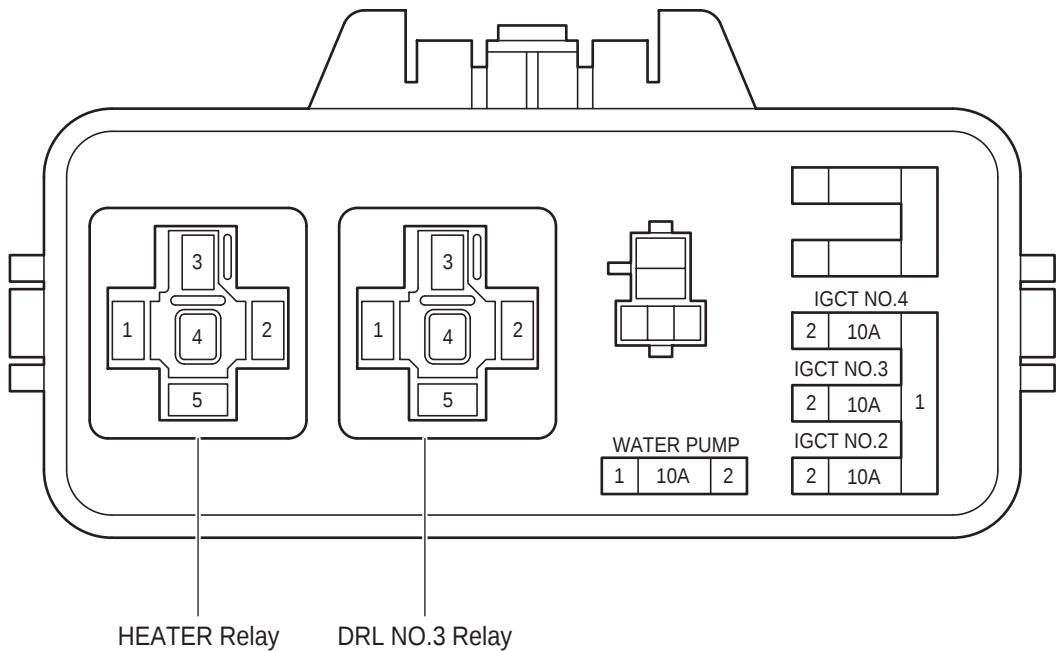


F RELAY LOCATIONS

① : R/B No.1	Lower Finish Panel (See Page 20)
--------------	----------------------------------

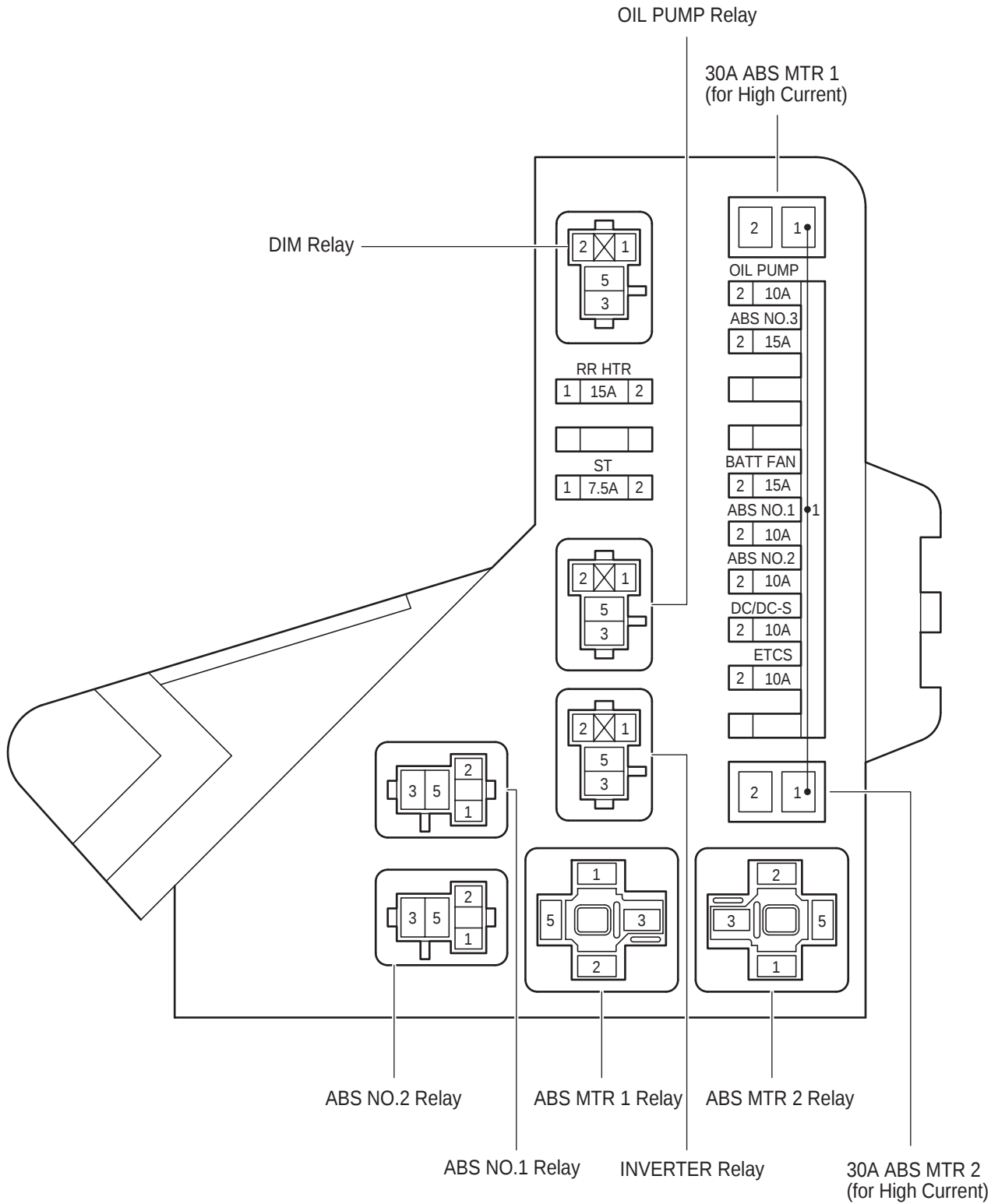


③ : R/B No.3	Engine Compartment Left (See Page 20)
--------------	---------------------------------------



④ : R/B No.4

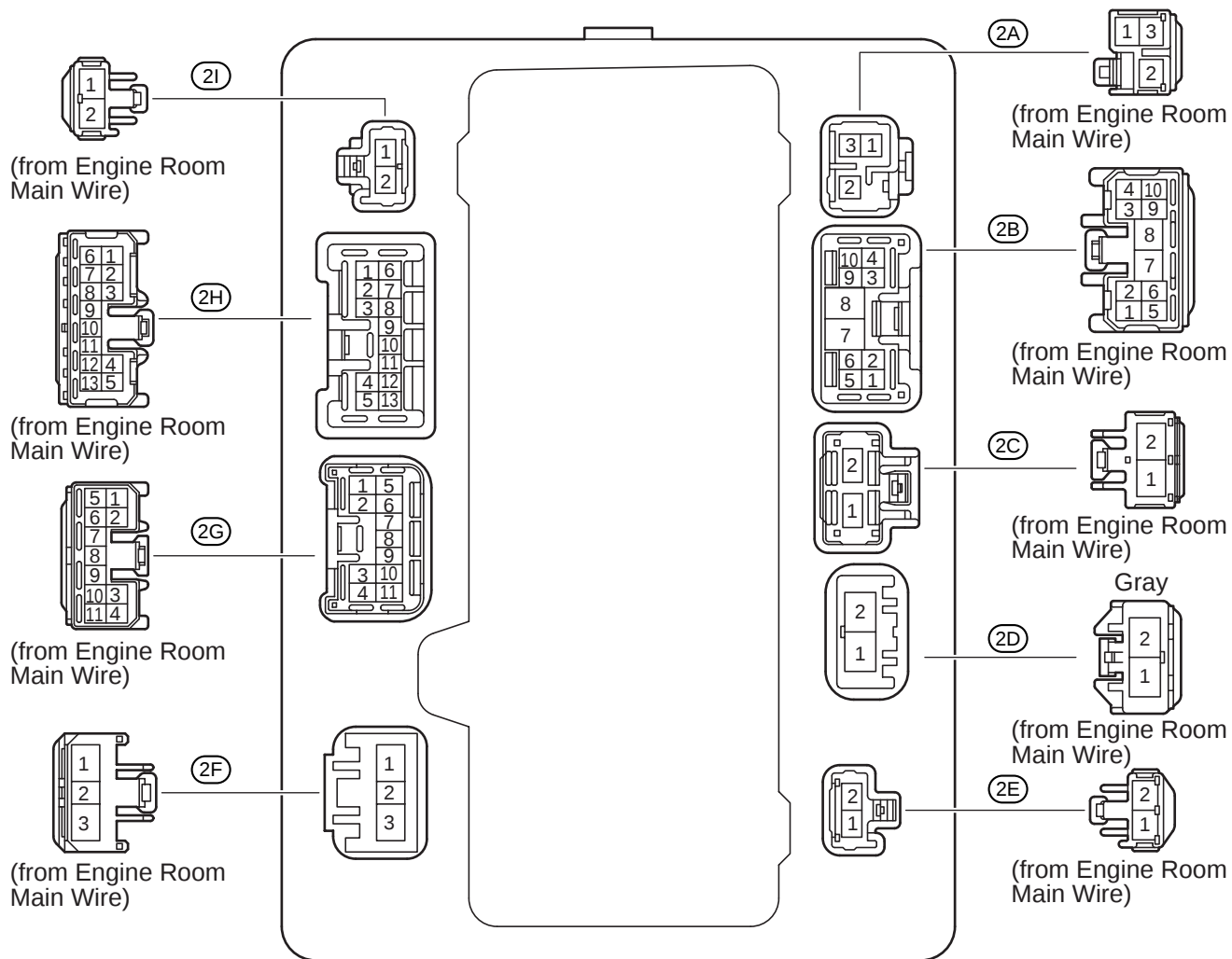
Engine Compartment Left (See Page 20)



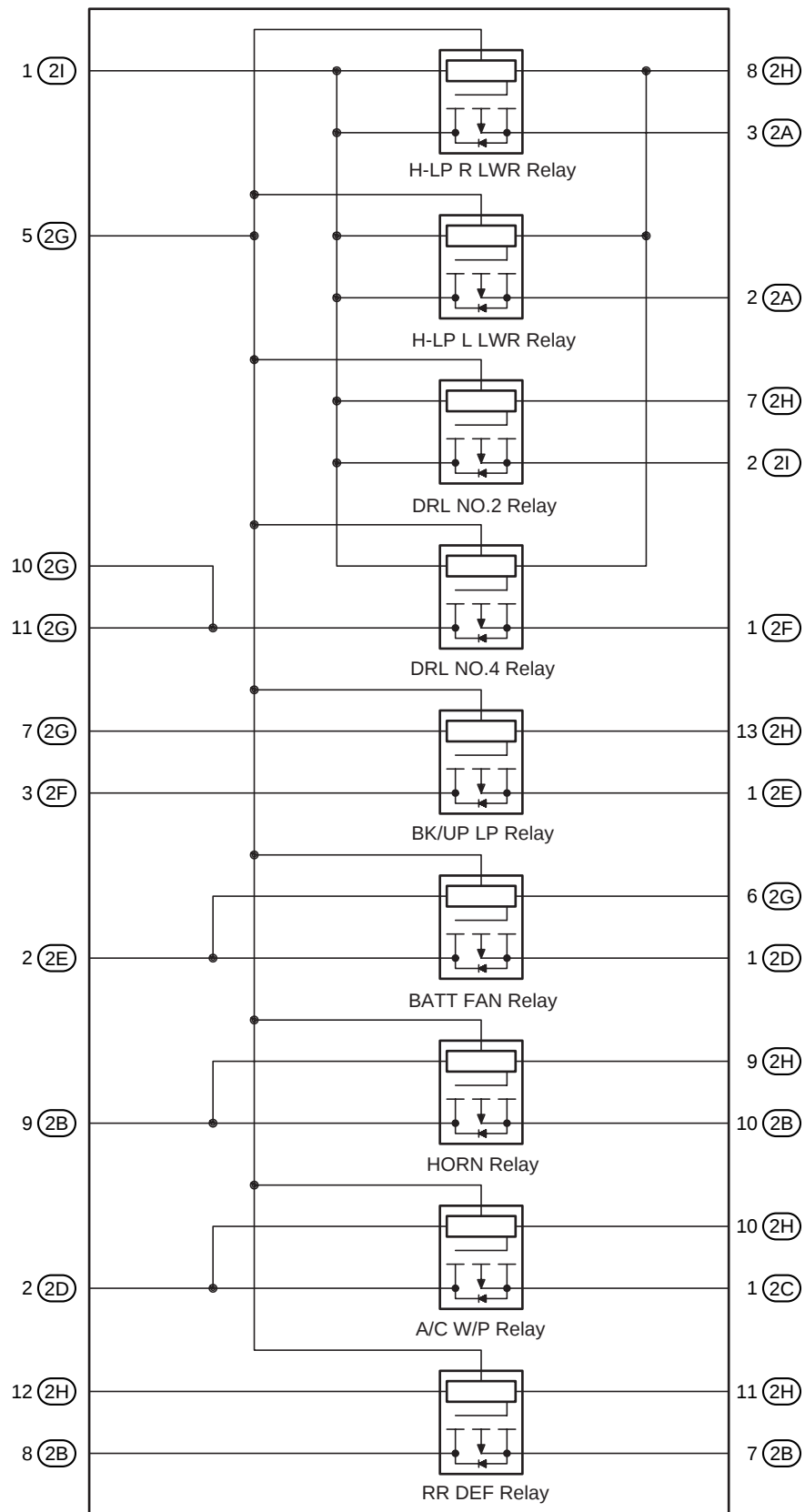
F RELAY LOCATIONS

○ : Engine Room J/B

Engine Compartment Left (See Page 20)



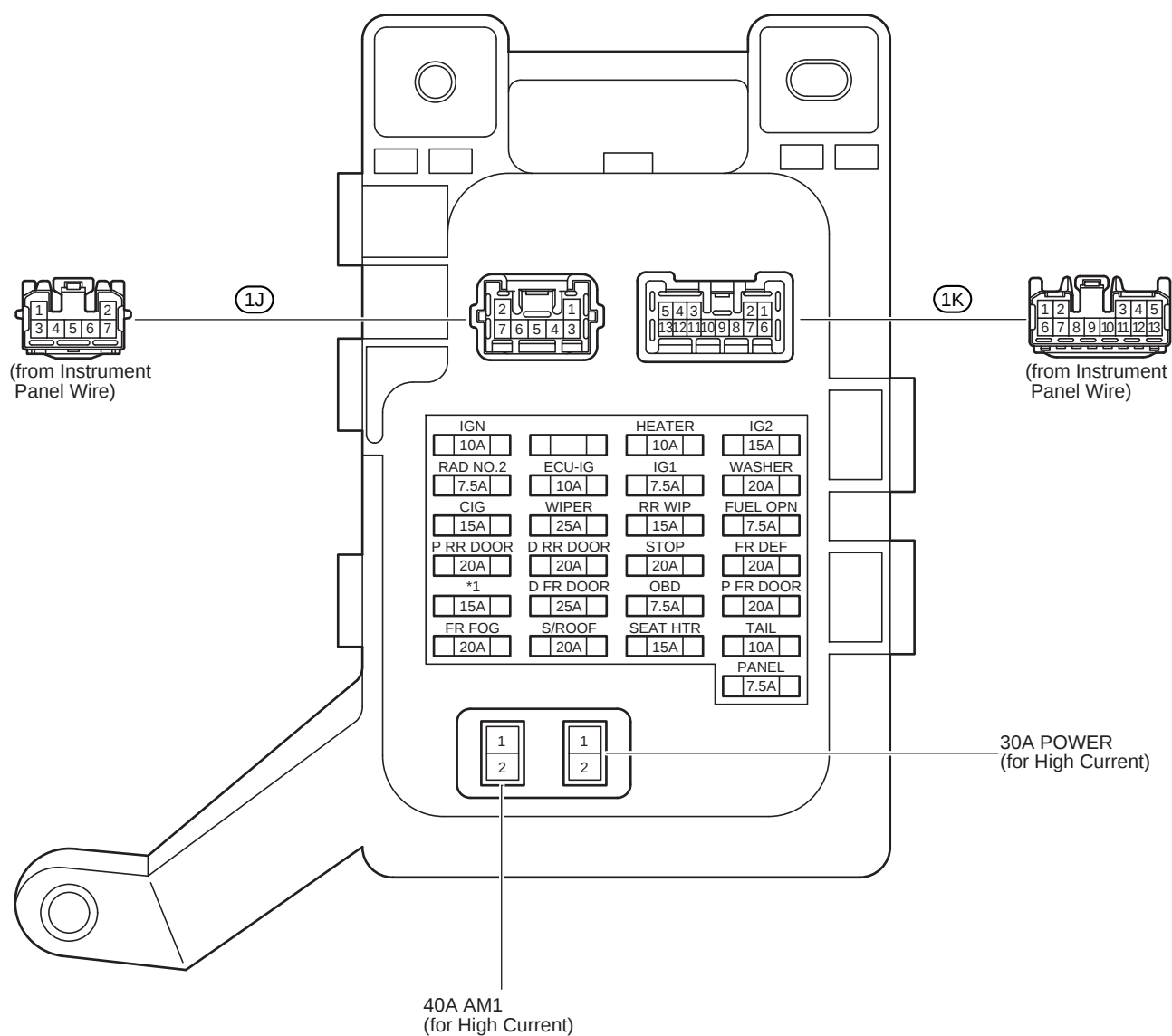
[Engine Room J/B Inner Circuit]

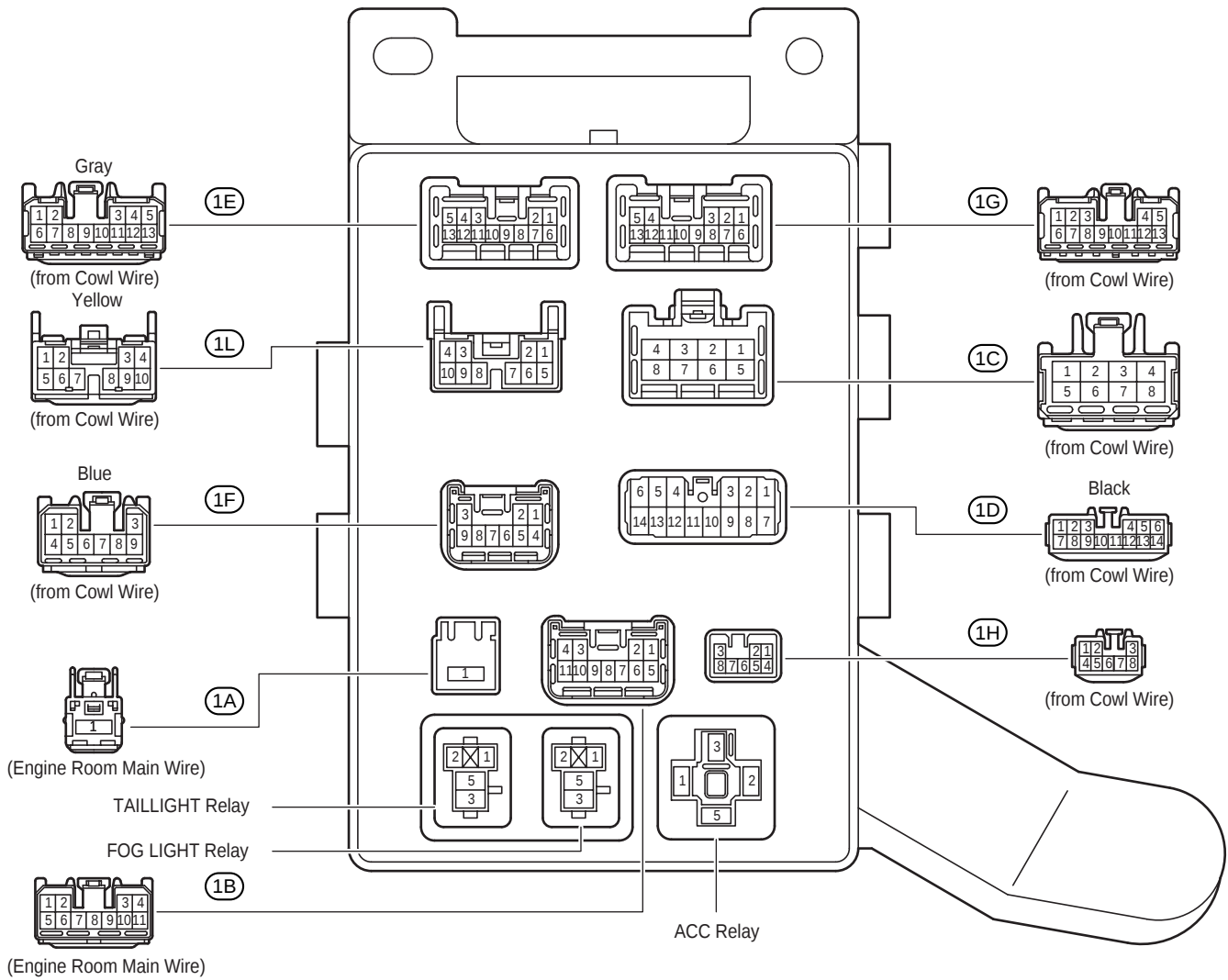


F RELAY LOCATIONS

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

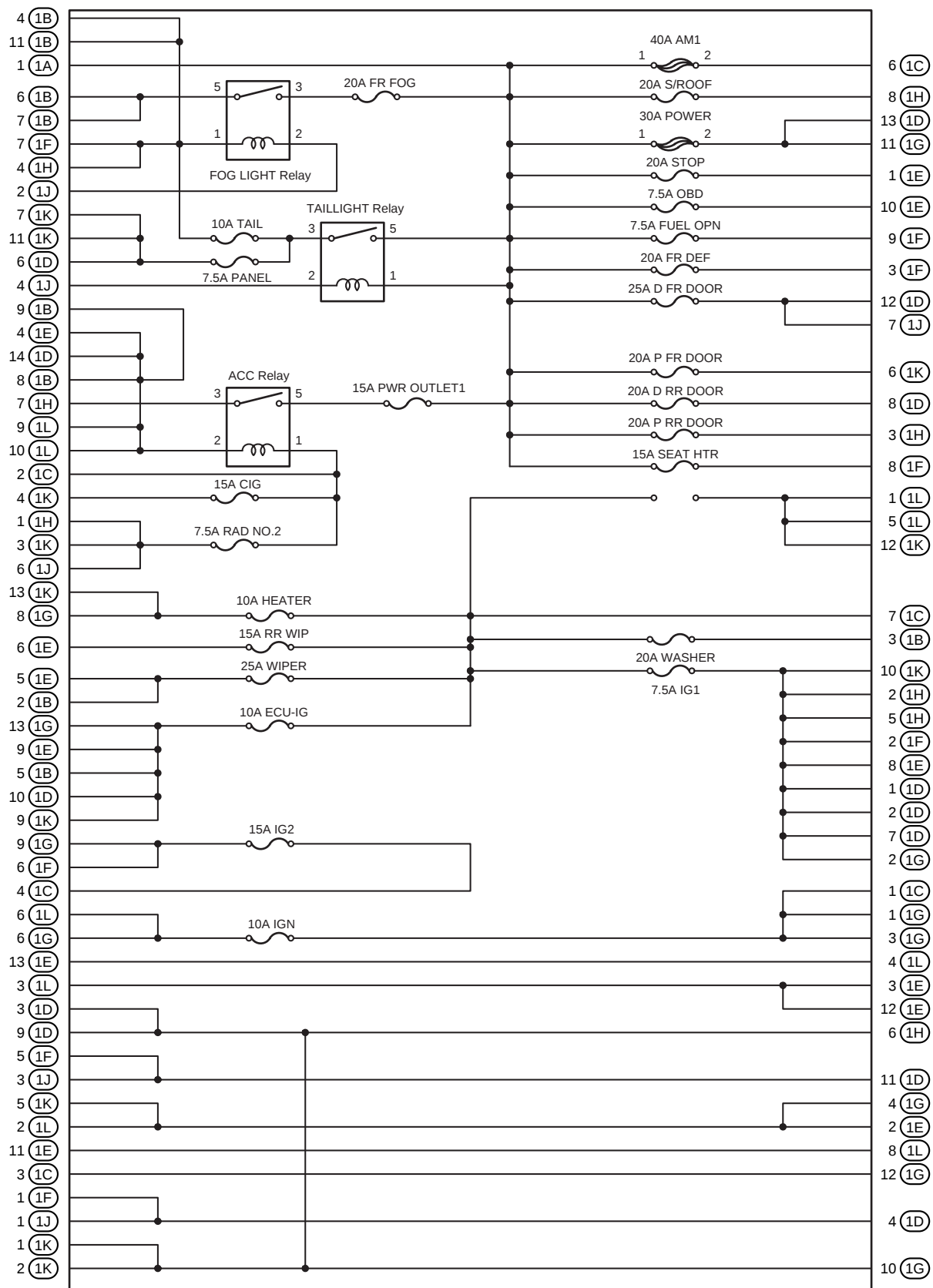
* 1:PWR OUTLET1





F RELAY LOCATIONS

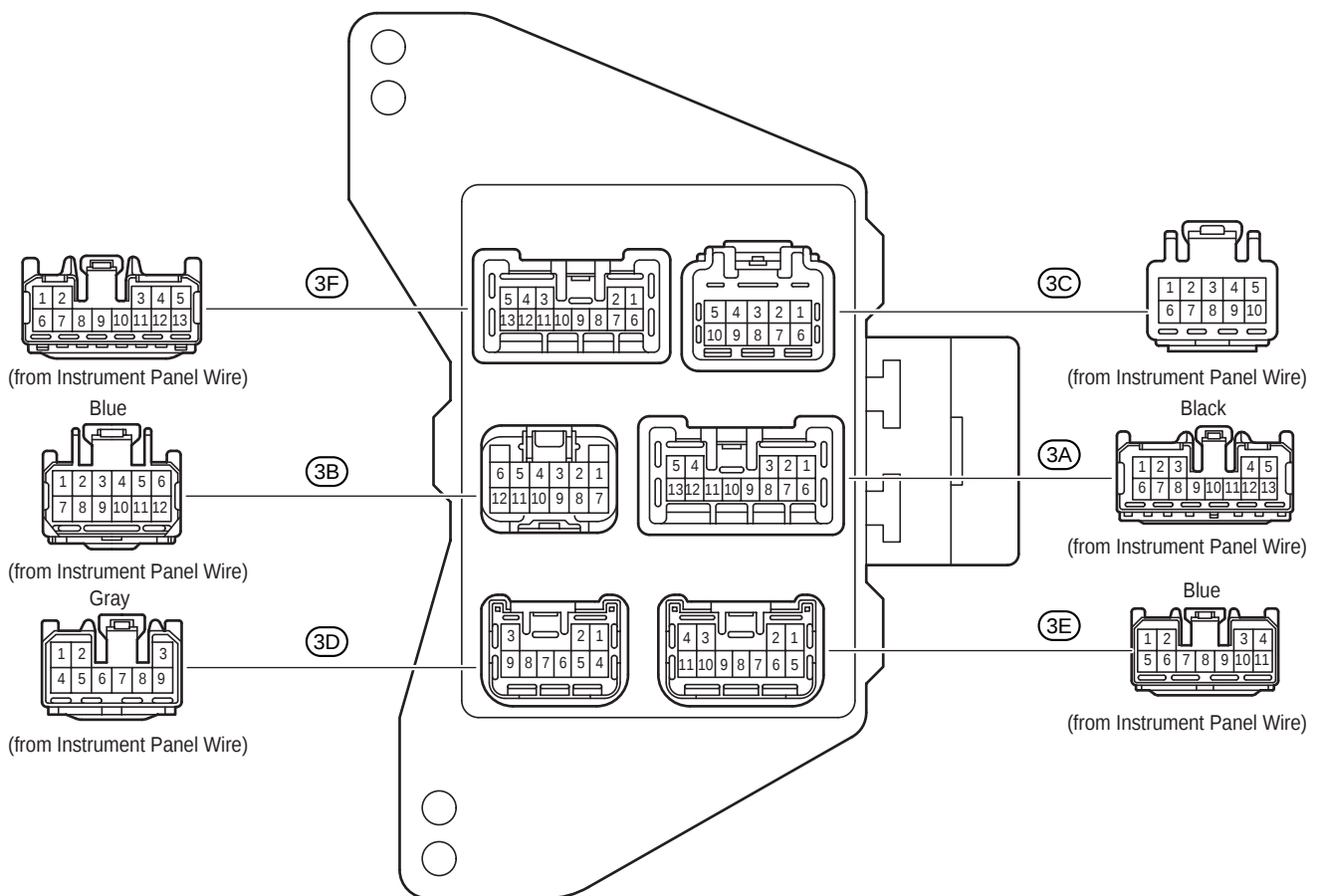
[Instrument Panel J/B Inner Circuit]

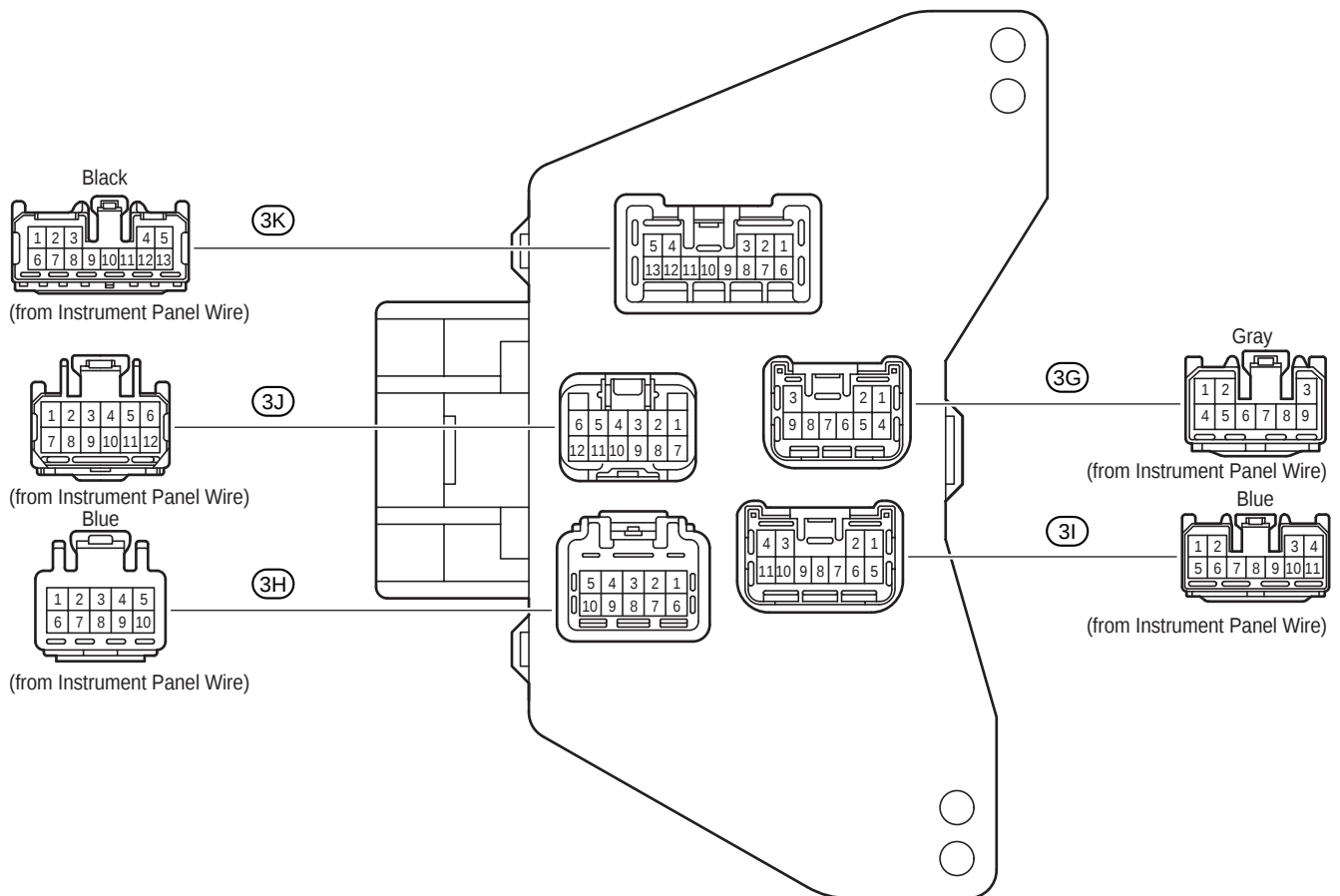


F RELAY LOCATIONS

 : J/B No.3

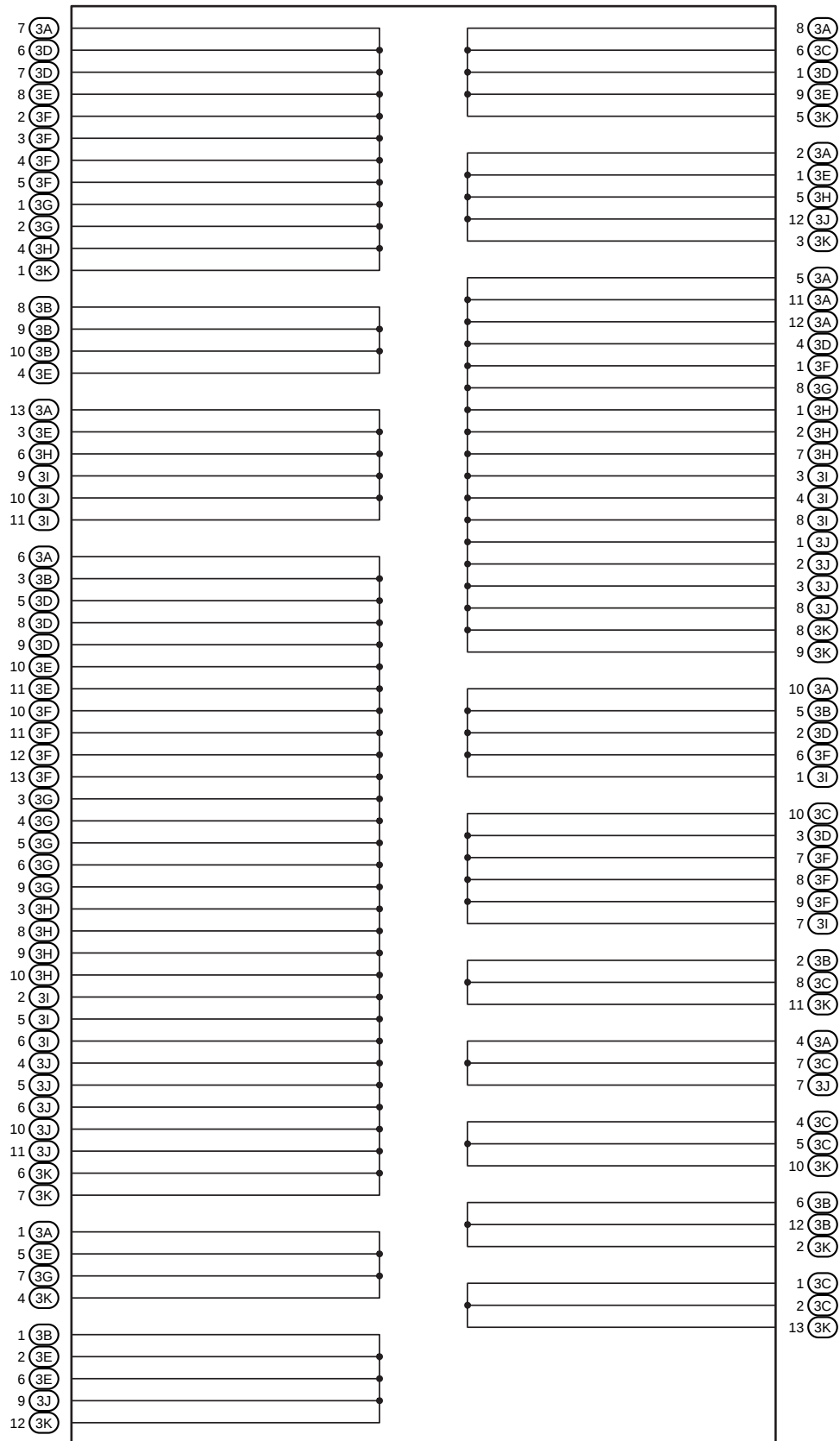
Behind the Instrument Panel Center (See Page 20)





F RELAY LOCATIONS

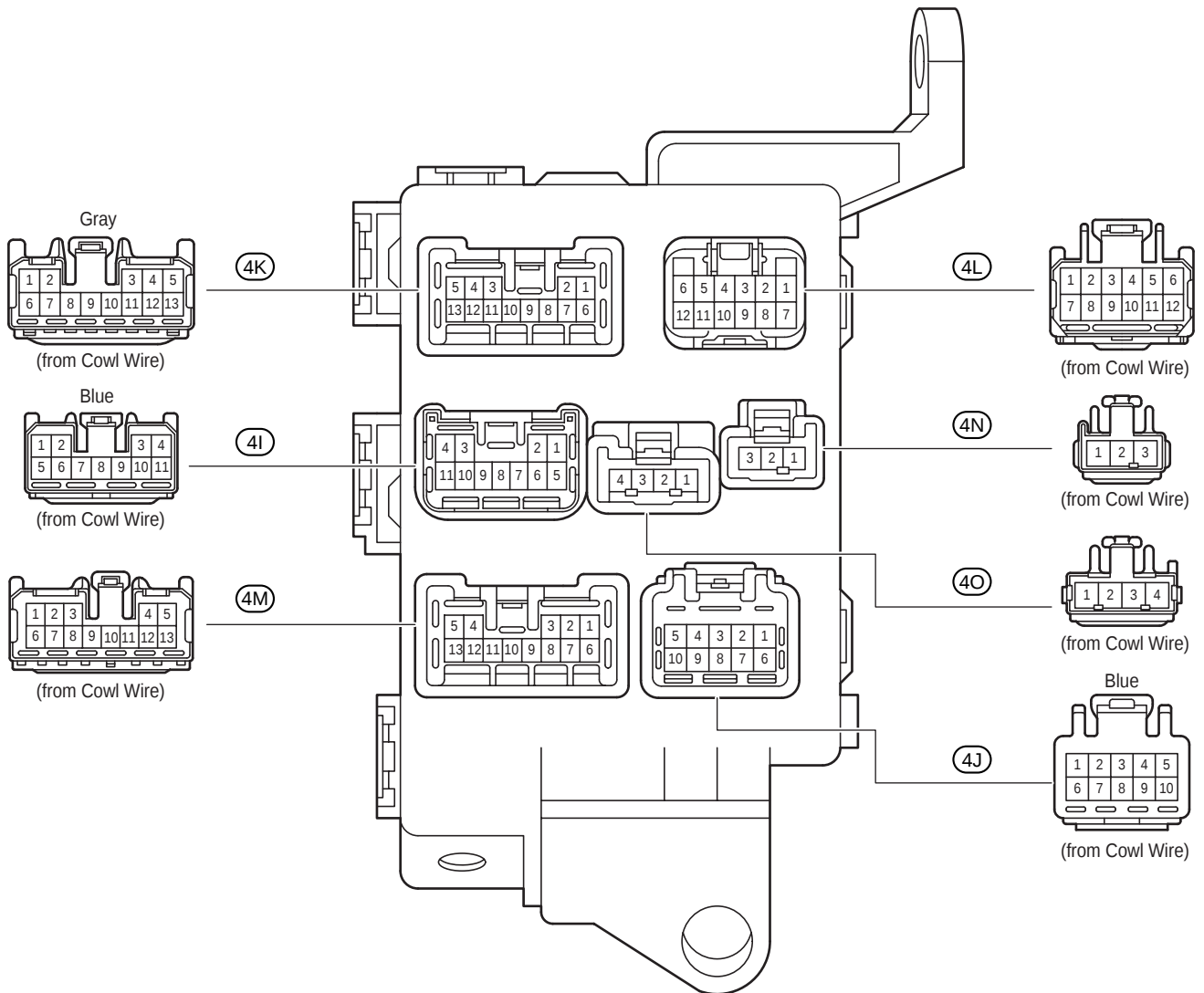
[J/B No.3 Inner Circuit]

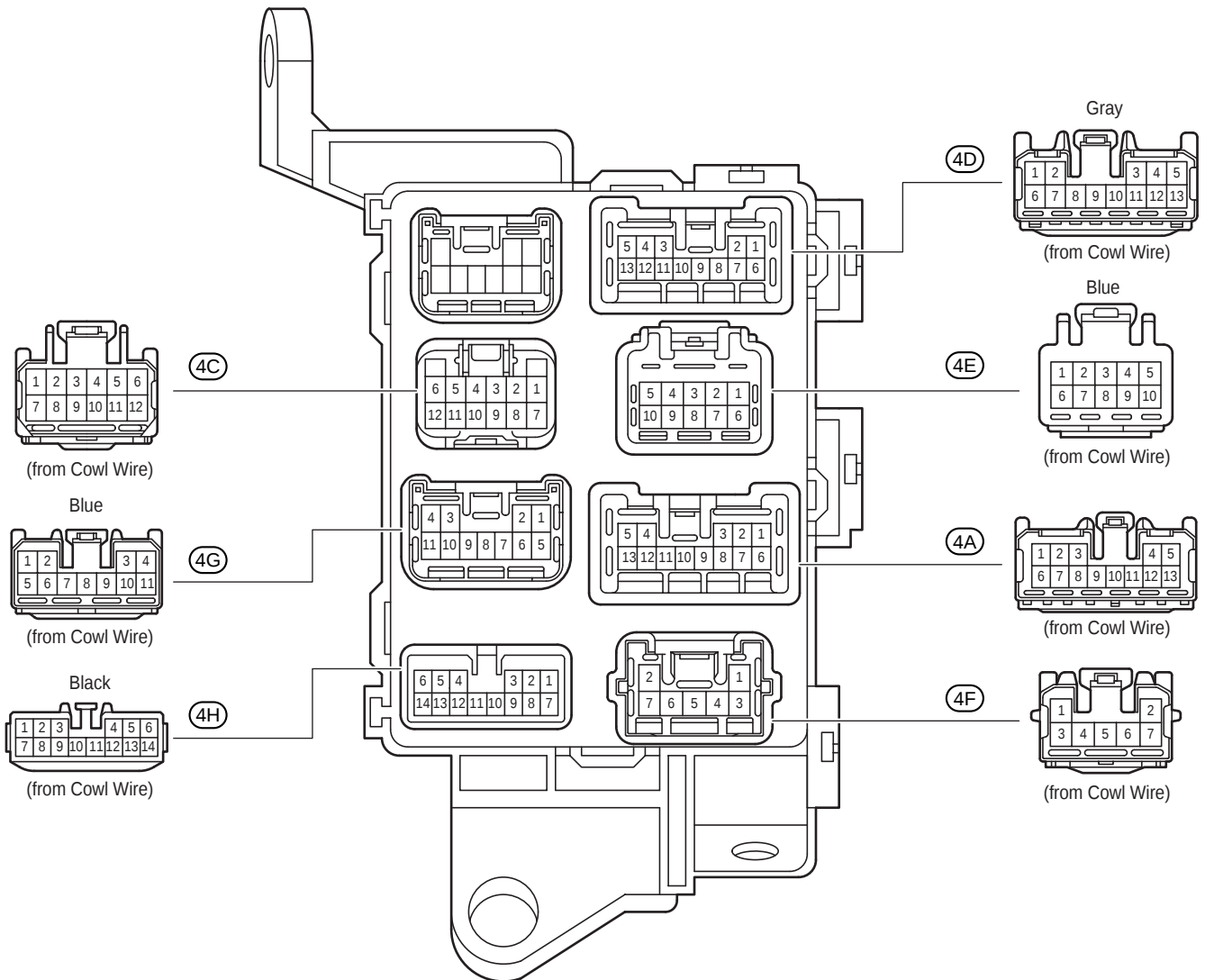


F RELAY LOCATIONS

○ : J/B No.4

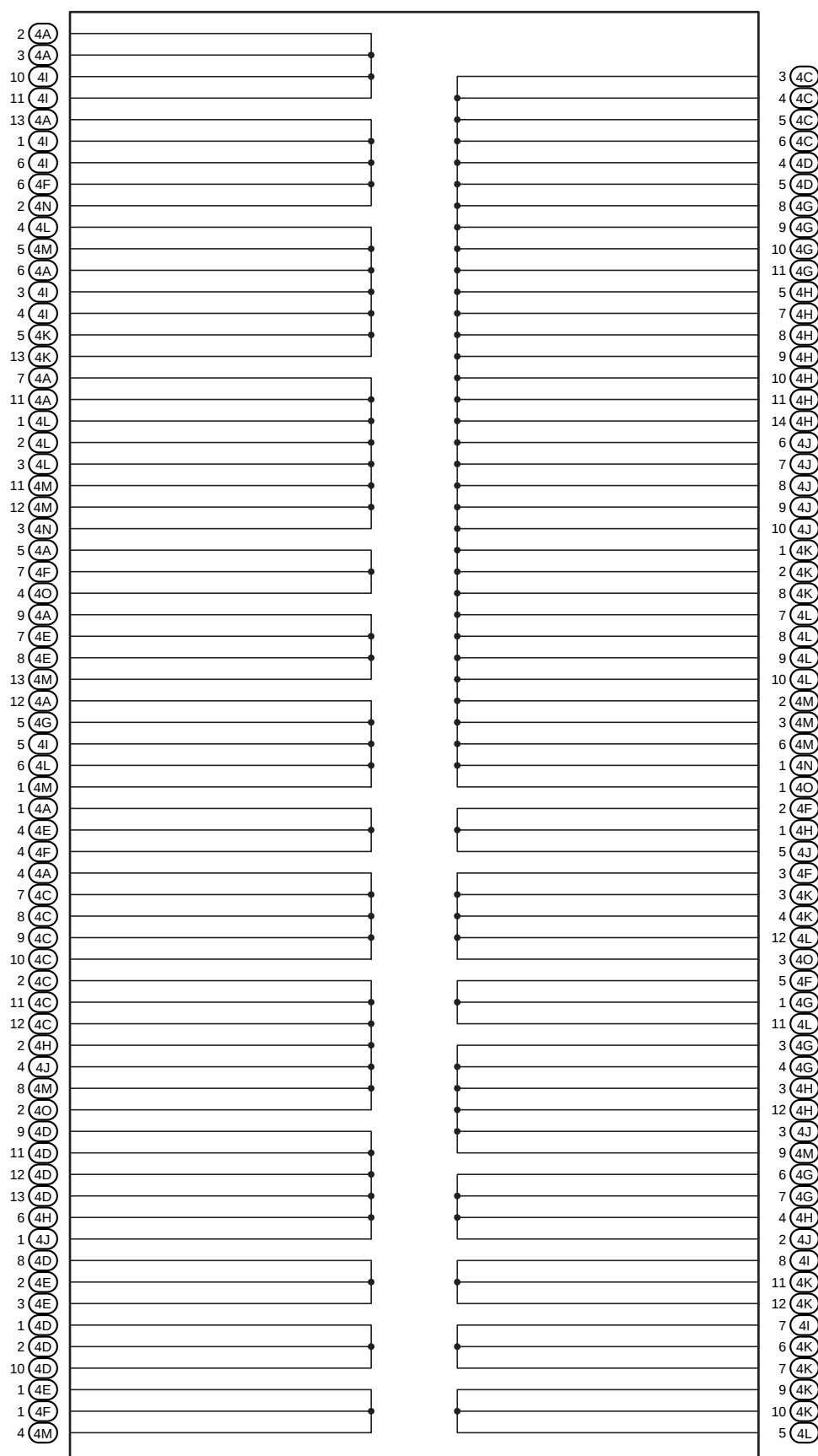
Right Side of Glove Box (See Page 20)



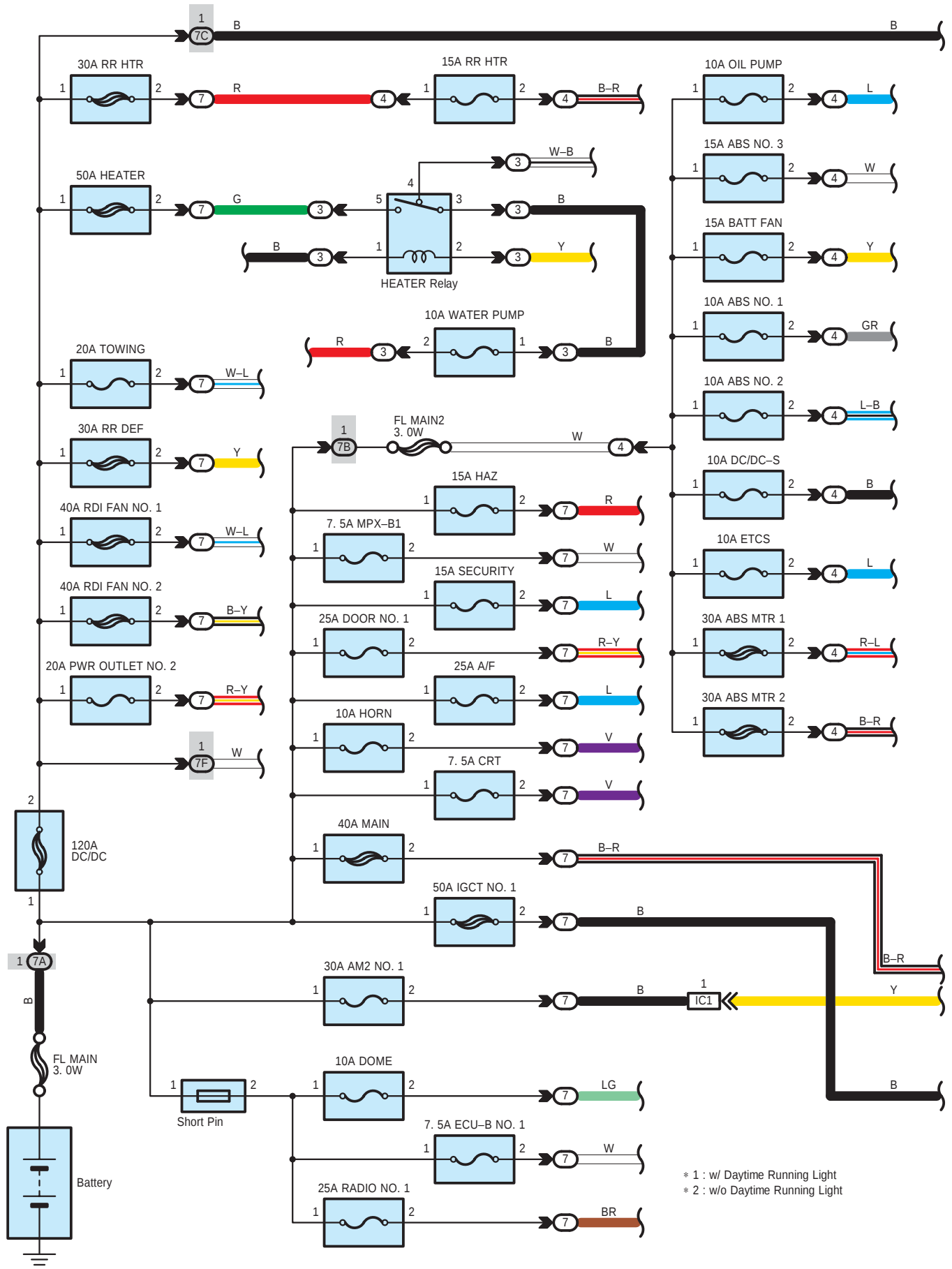


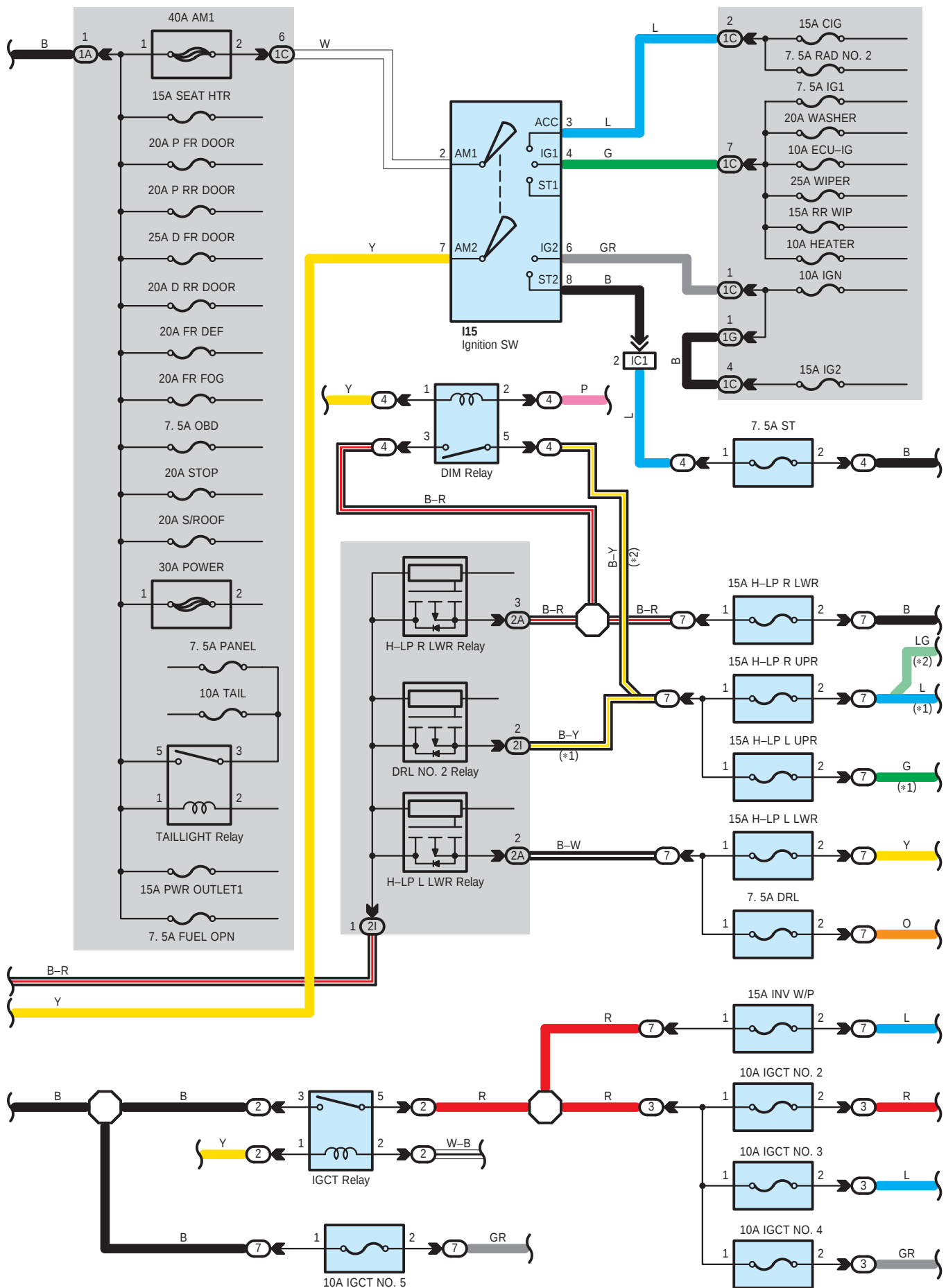
F RELAY LOCATIONS

[J/B No.4 Inner Circuit]



Power Source





Power Source

: Parts Location

Code	See Page	Code	See Page	Code	See Page
I15	44				

: Relay Blocks

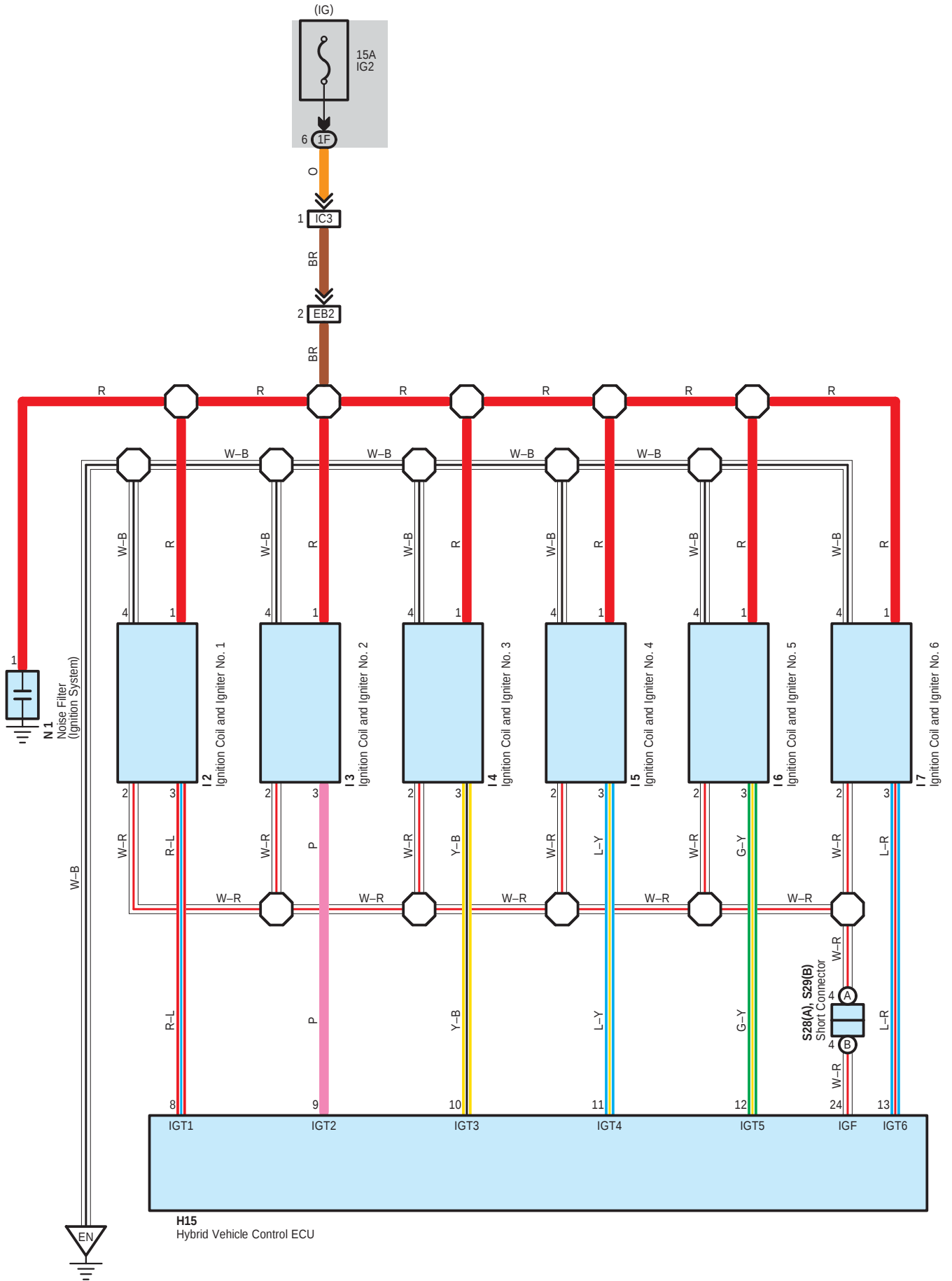
Code	See Page	Relay Blocks (Relay Block Location)
2	25	R/B No.2 (Engine Compartment Left)
3	26	R/B No.3 (Engine Compartment Left)
4	27	R/B No.4 (Engine Compartment Left)
7	24	Fusible Link Block (Engine Compartment Left)

: Junction Block and Wire Harness Connector

Code	See Page	Junction Block and Wire Harness (Connector Location)
1A	31	Engine Room Main Wire and Instrument Panel J/B (Lower Finish Panel)
1C	31	Cowl Wire and Instrument Panel J/B (Lower Finish Panel)
1G		
2A	28	Engine Room Main Wire and Engine Room J/B (Engine Compartment Left)
2I		
7A	24	Engine Room Main Wire and Fusible Link Block (Engine Compartment Left)
7B		
7C		
7F	24	Engine Room No.2 Wire and Fusible Link Block (Engine Compartment Left)

: Connector Joining Wire Harness and Wire Harness

Code	See Page	Joining Wire Harness and Wire Harness (Connector Location)
IC1	54	Engine Room Main Wire and Cowl Wire (Left Cowl Side Panel)



 : Parts Location

Code	See Page	Code	See Page	Code	See Page
H15	44	I5	43	S28	A 47
I2	43	I6	43	S29	B 47
I3	43	I7	43		
I4	43	N1	43		

 : Junction Block and Wire Harness Connector

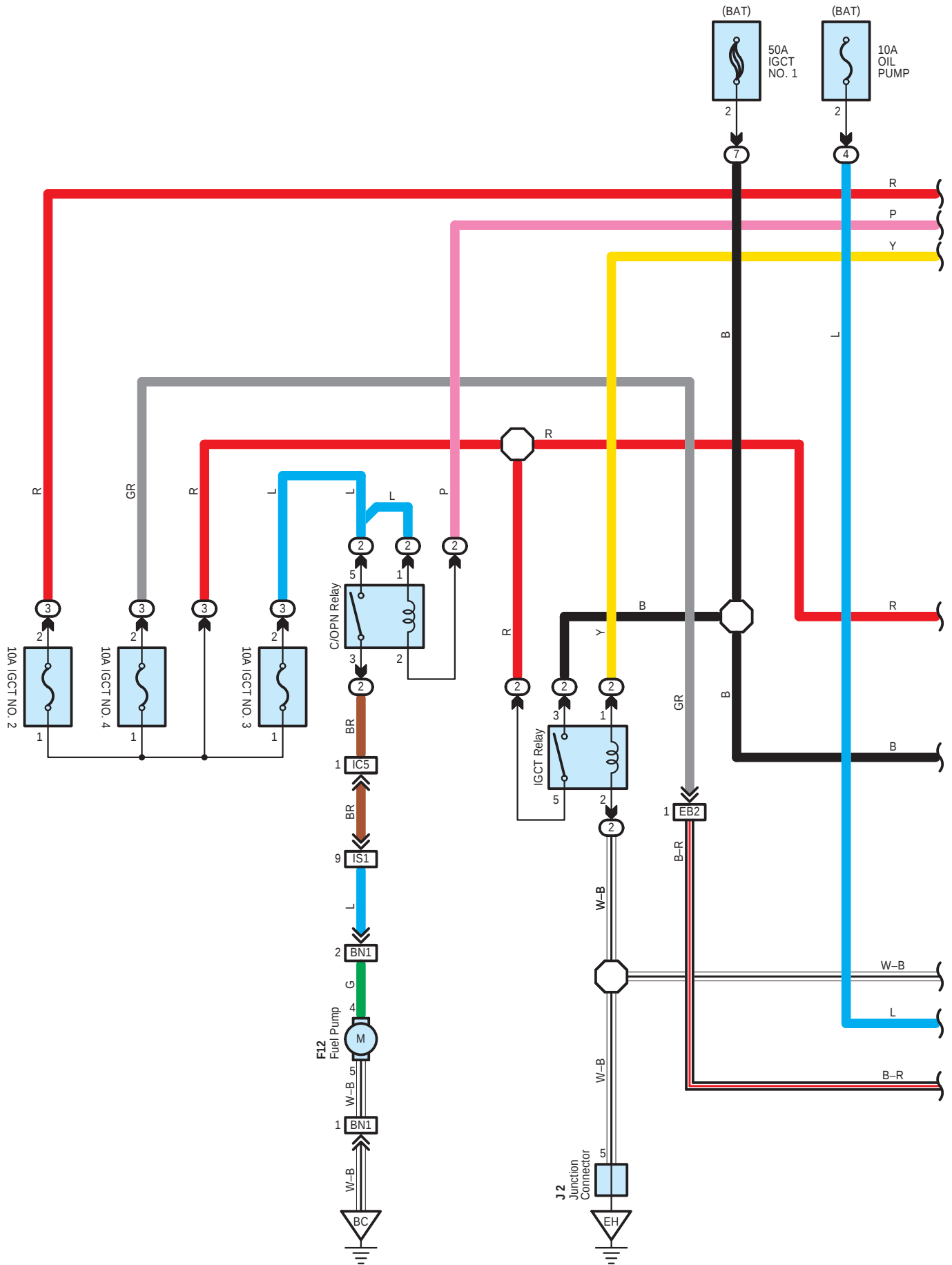
Code	See Page	Junction Block and Wire Harness (Connector Location)
1F	31	Cowl Wire and Instrument Panel J/B (Lower Finish Panel)

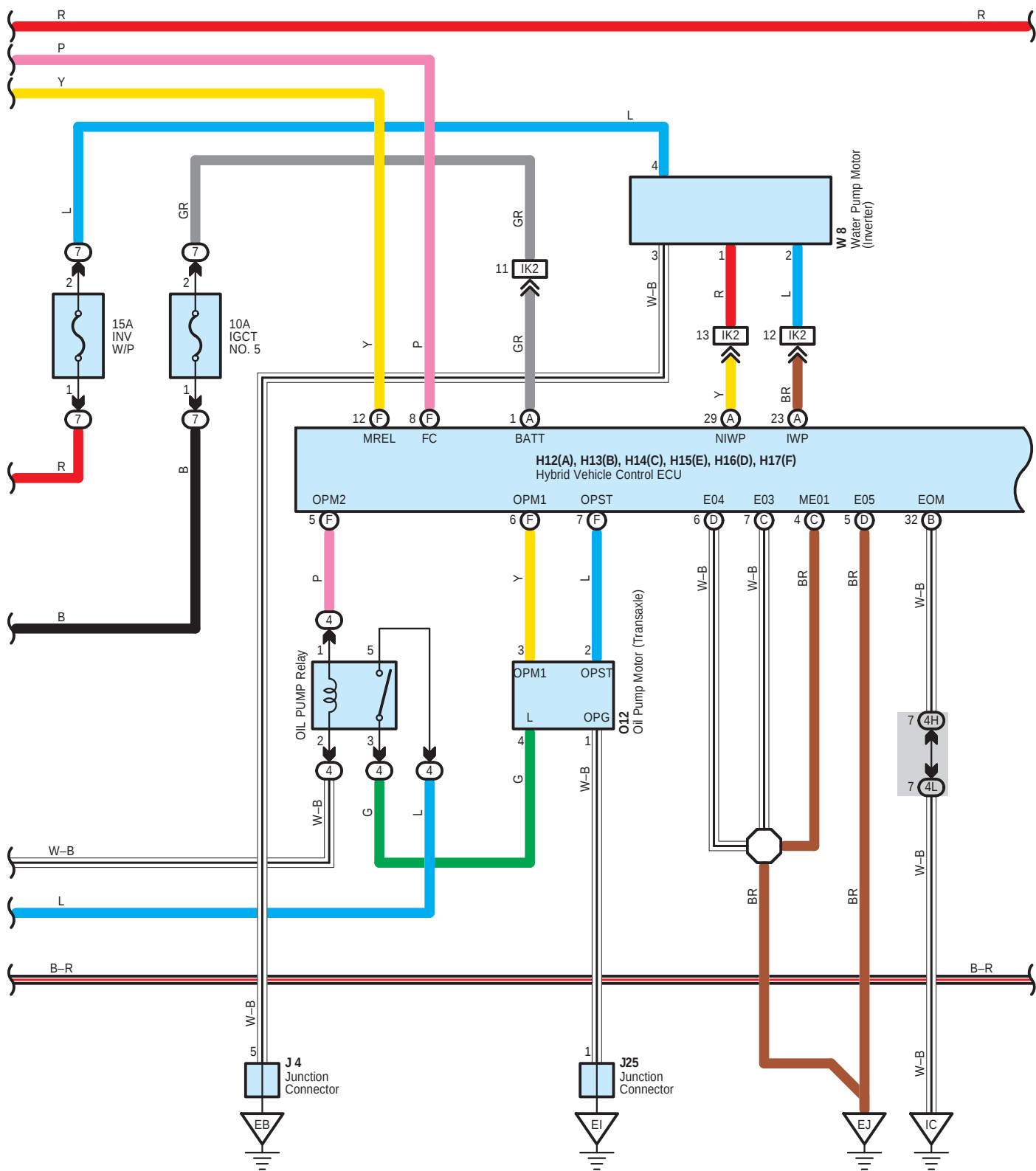
 : Connector Joining Wire Harness and Wire Harness

Code	See Page	Joining Wire Harness and Wire Harness (Connector Location)
EB2	52	Engine Wire and Engine Room Main Wire (Front Side of Engine Room R/B No.4)
IC3	54	Engine Room Main Wire and Cowl Wire (Left Cowl Side Panel)

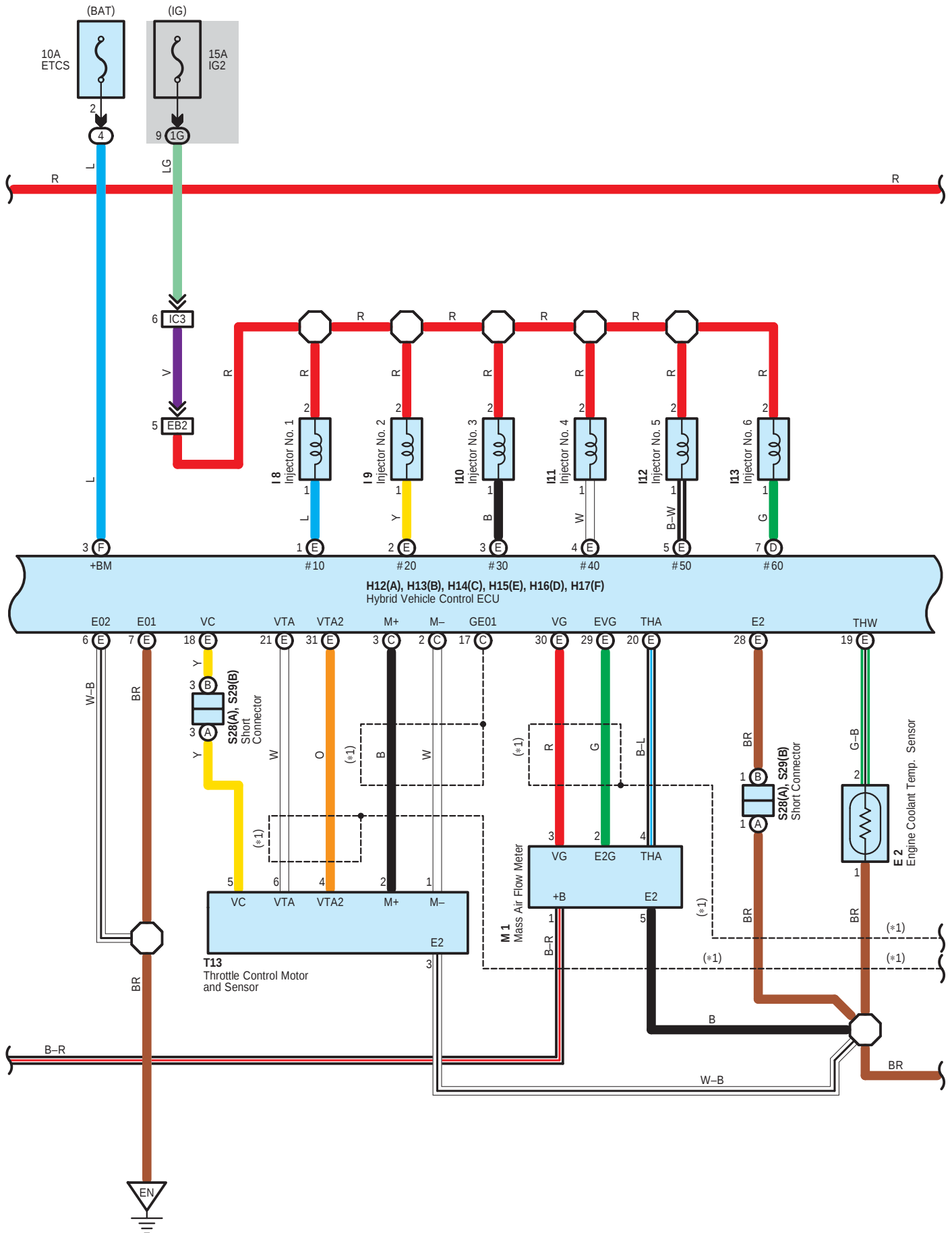
 : Ground Points

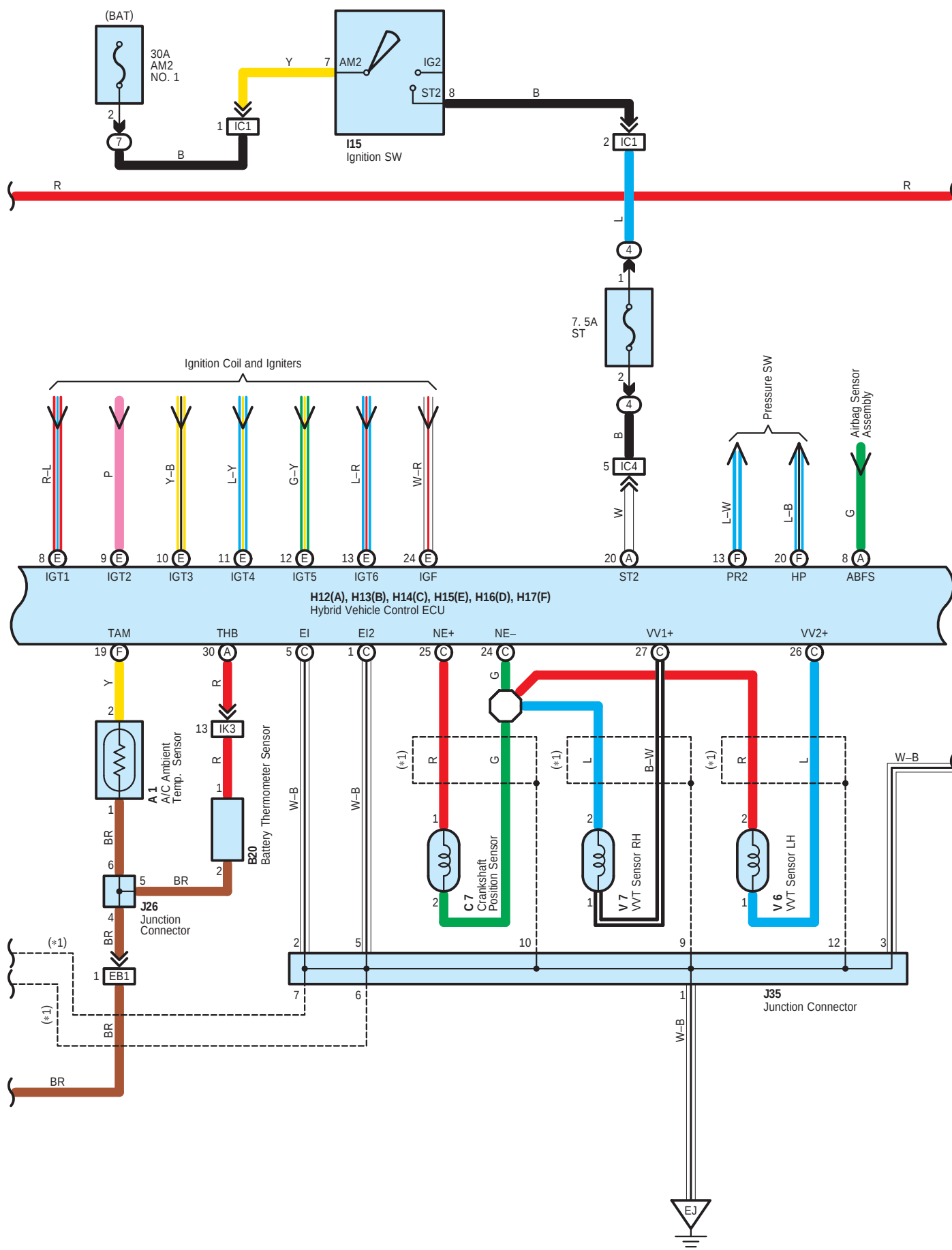
Code	See Page	Ground Points Location
EN	52	Left Side of the Cylinder Head

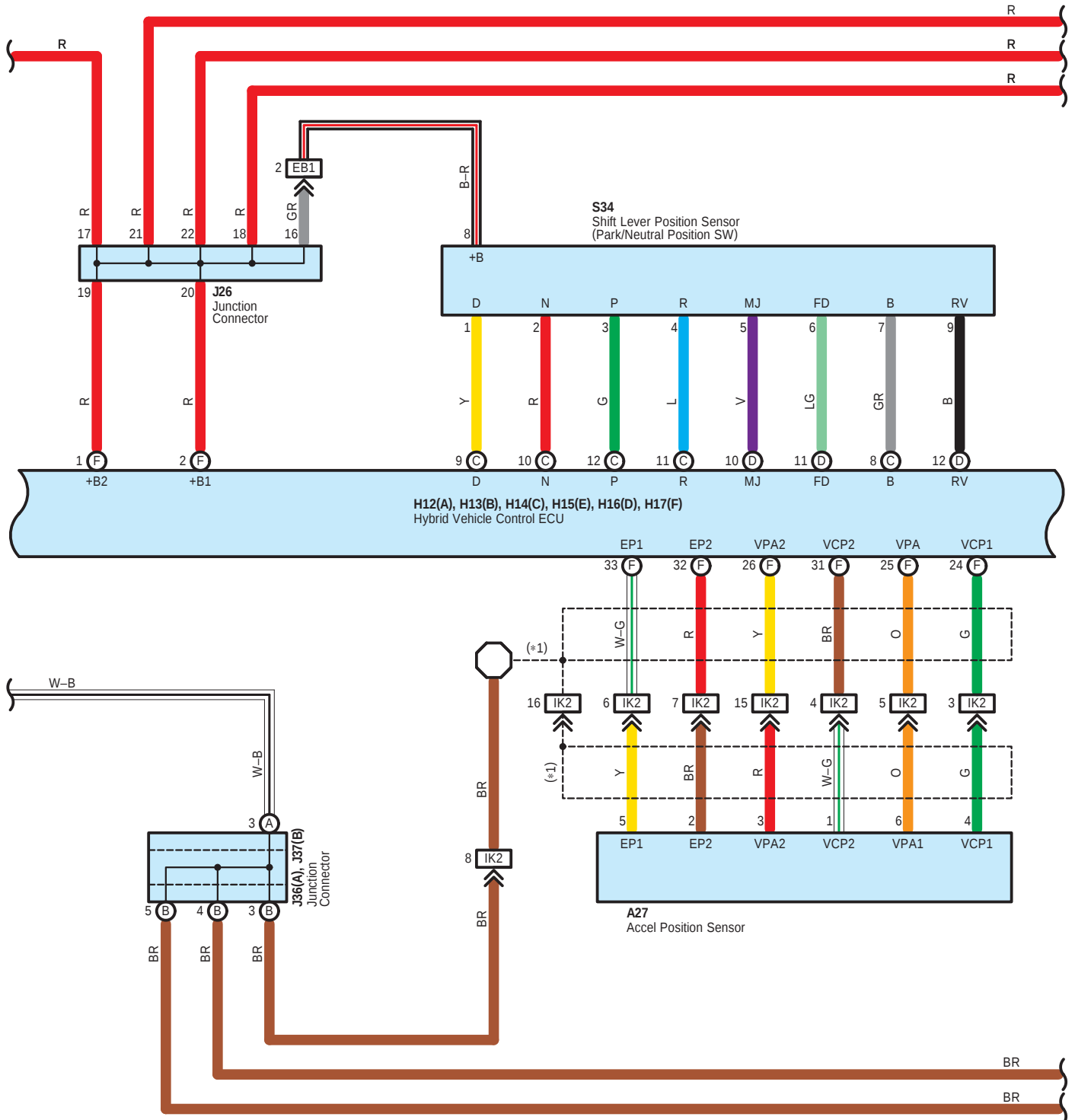


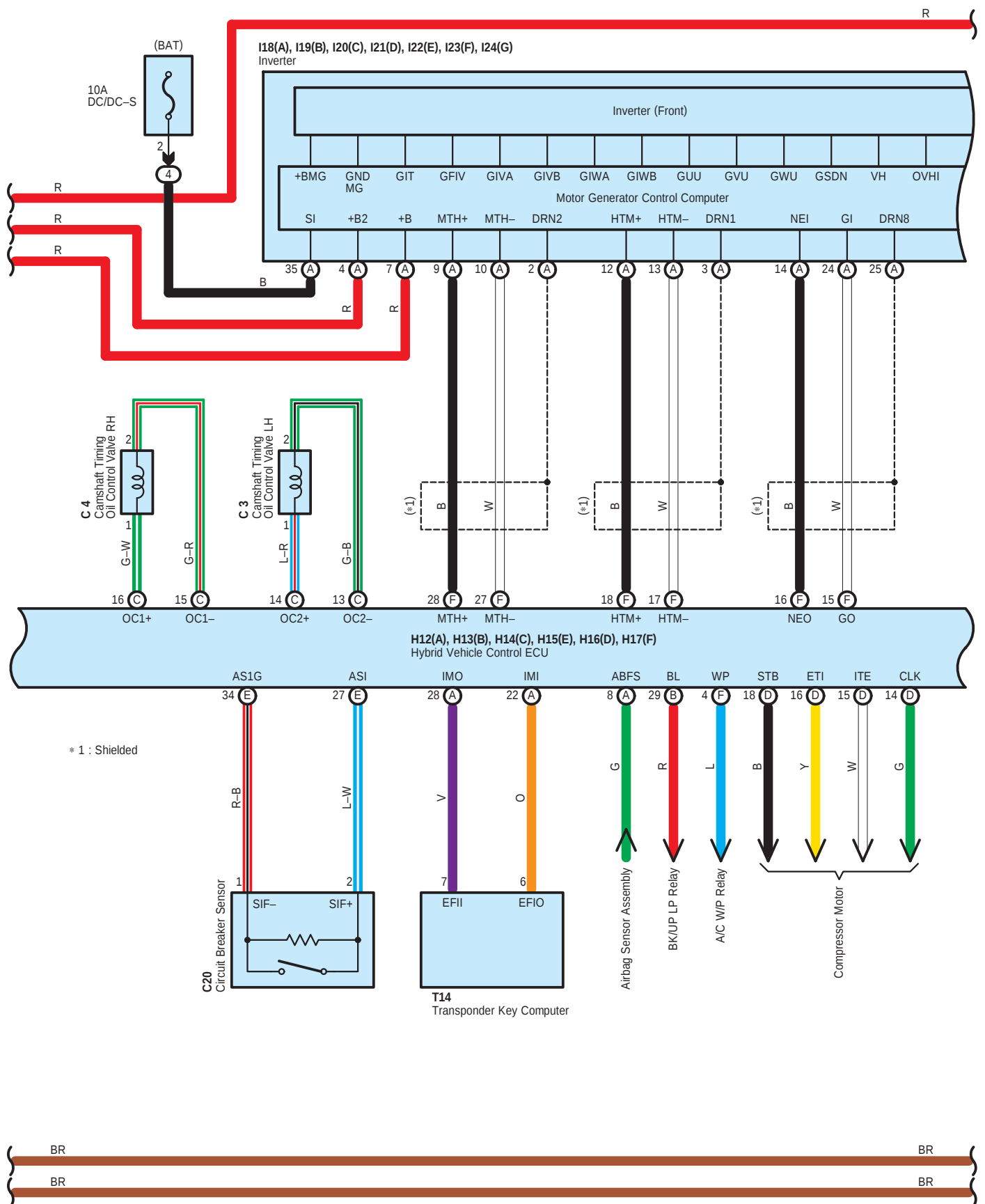


Hybrid System

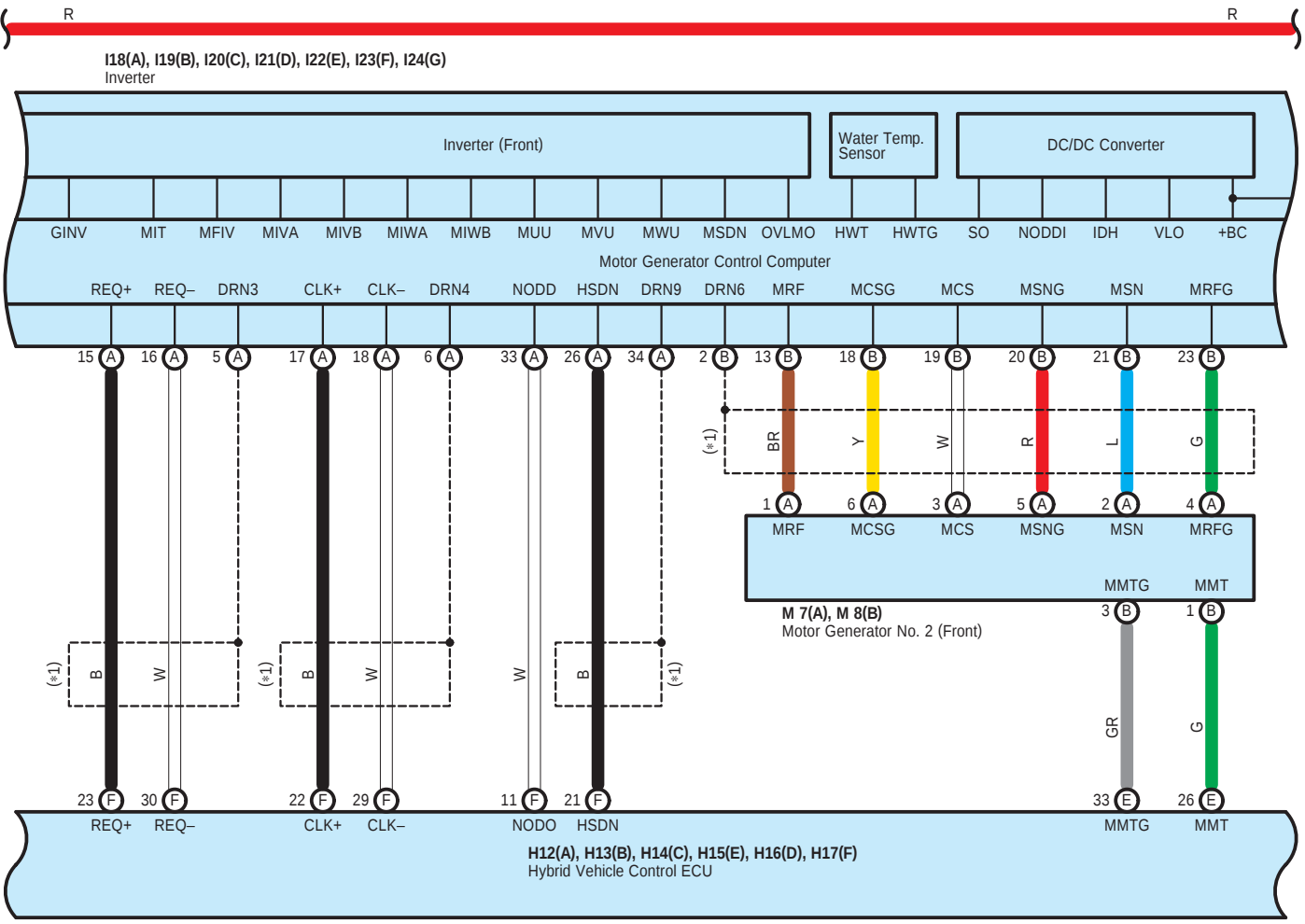


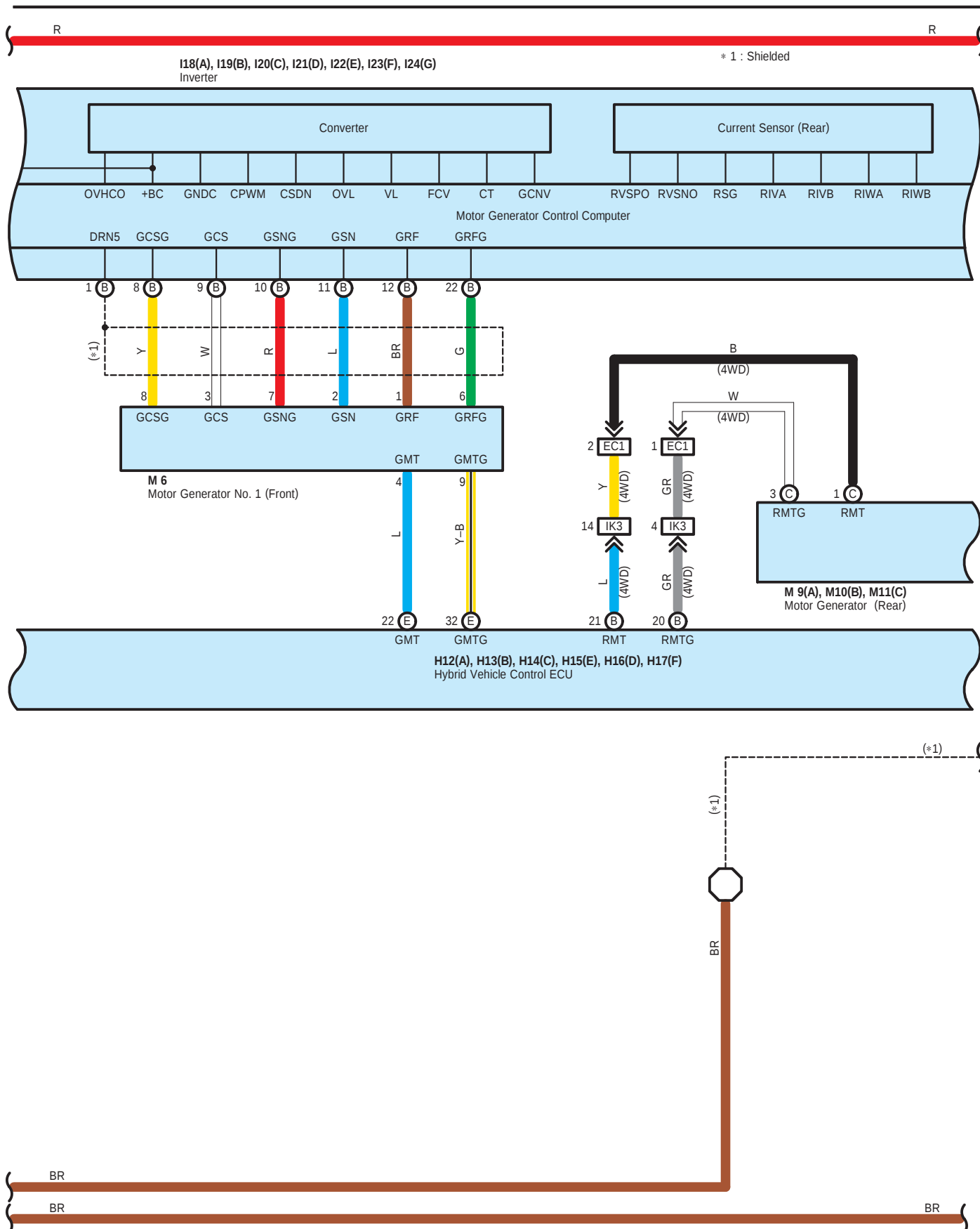




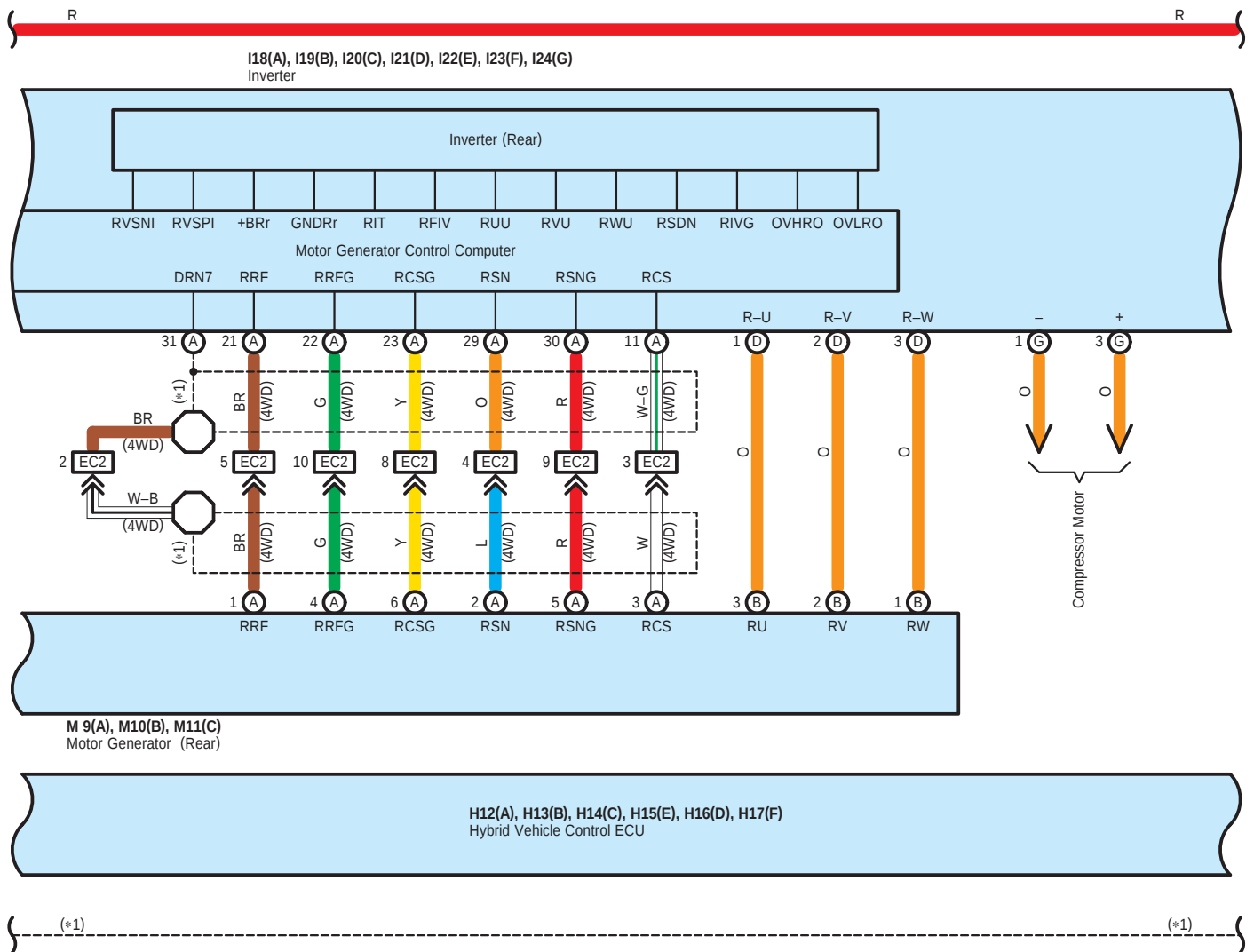


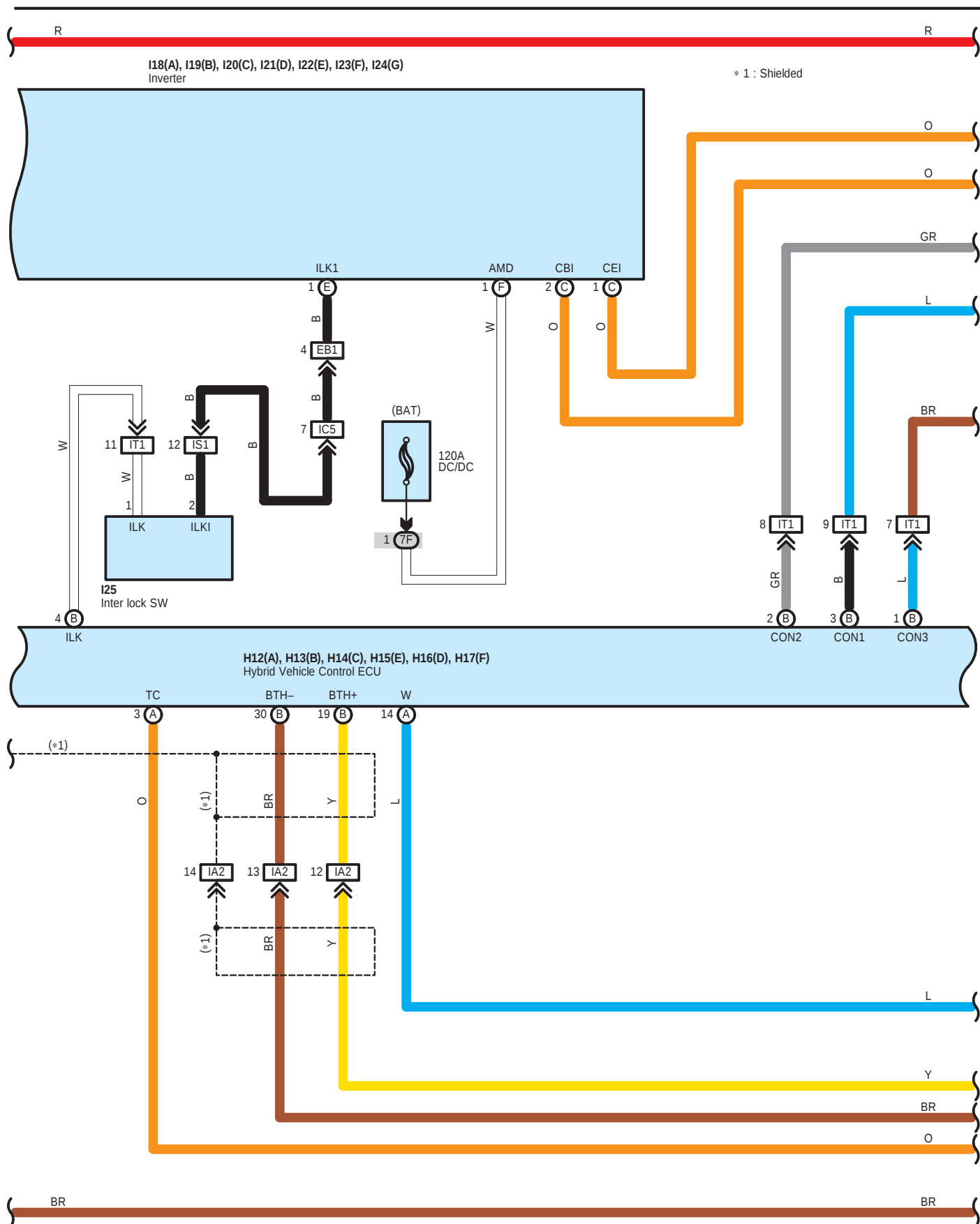
Hybrid System



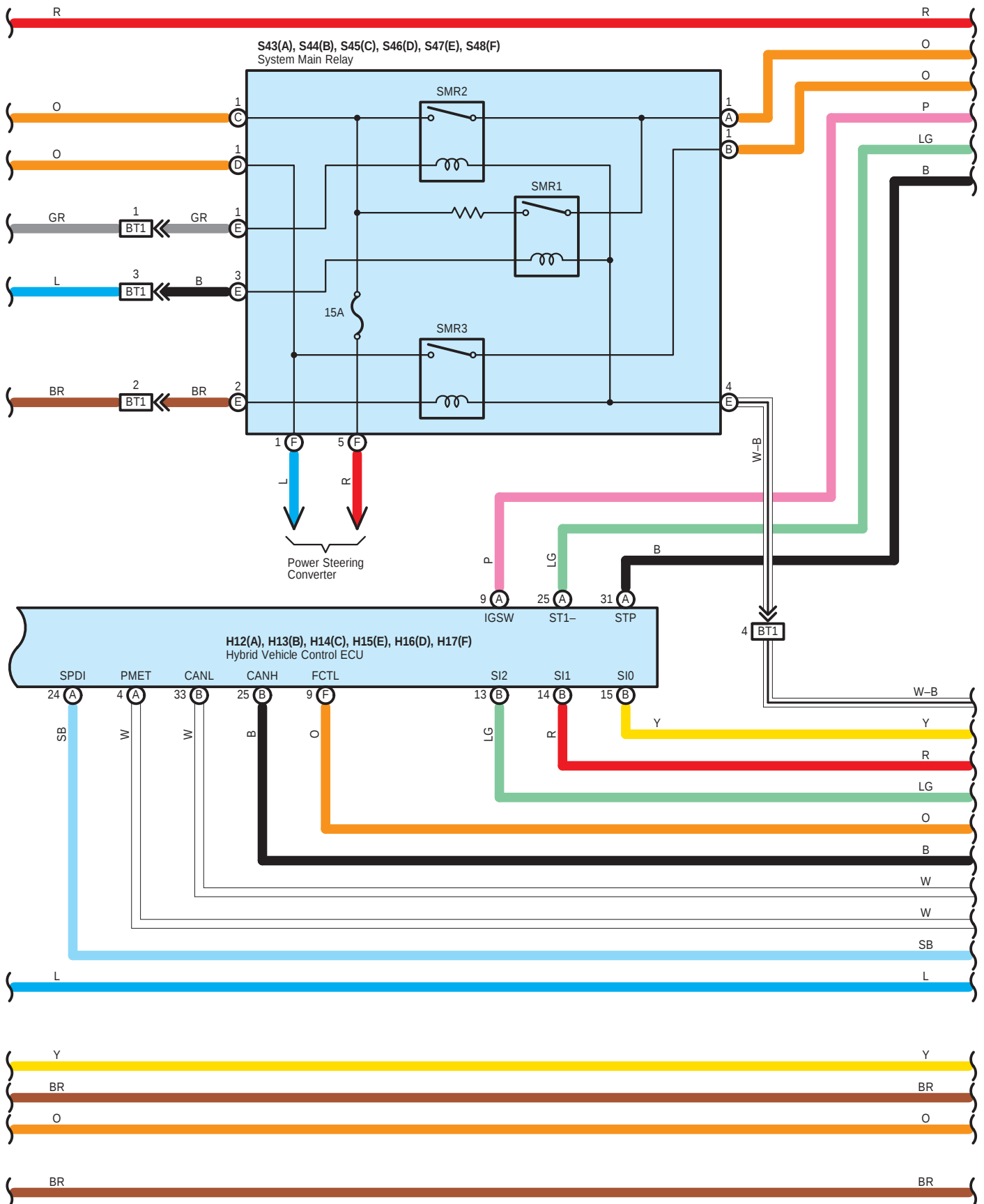


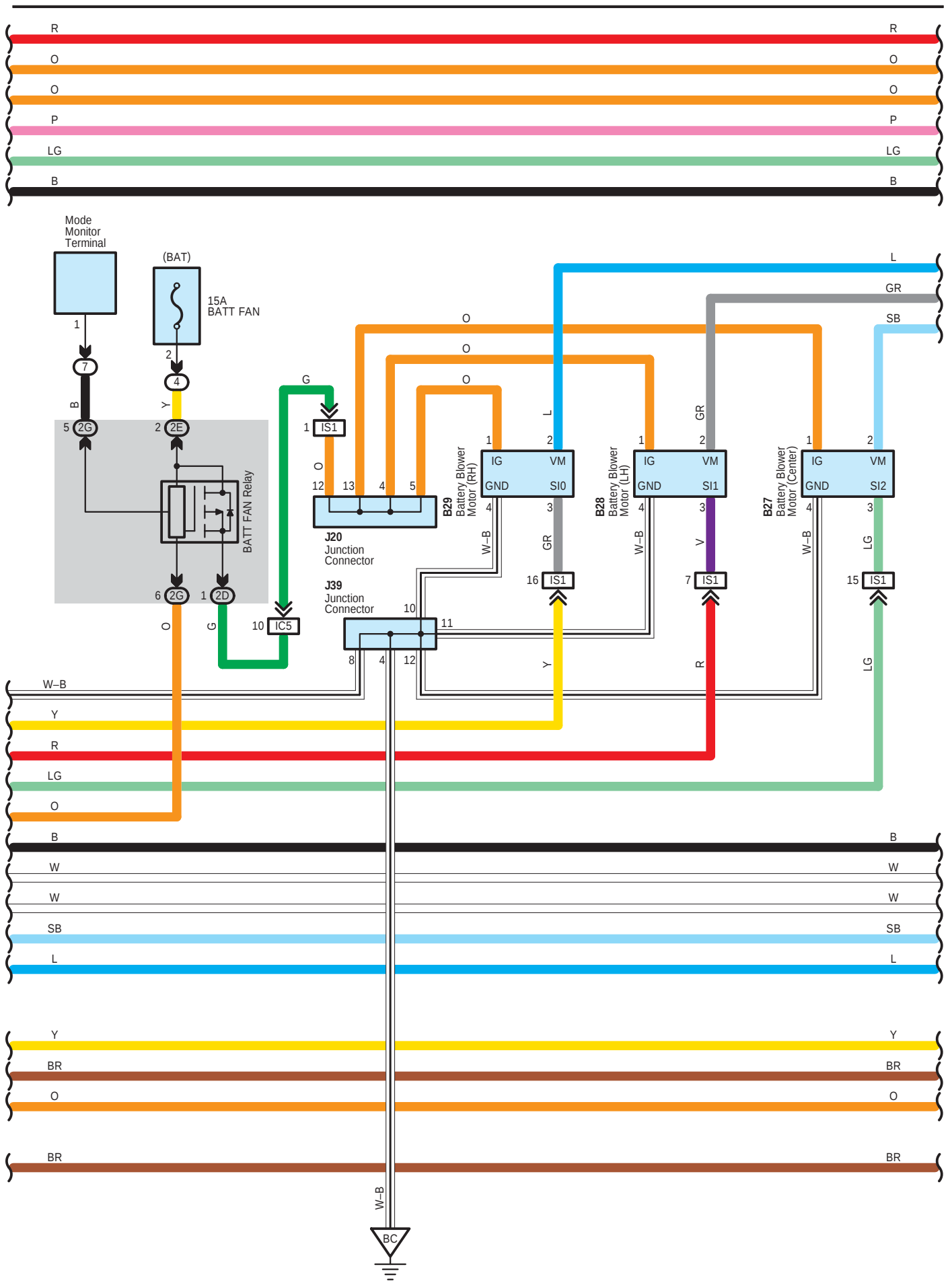
Hybrid System



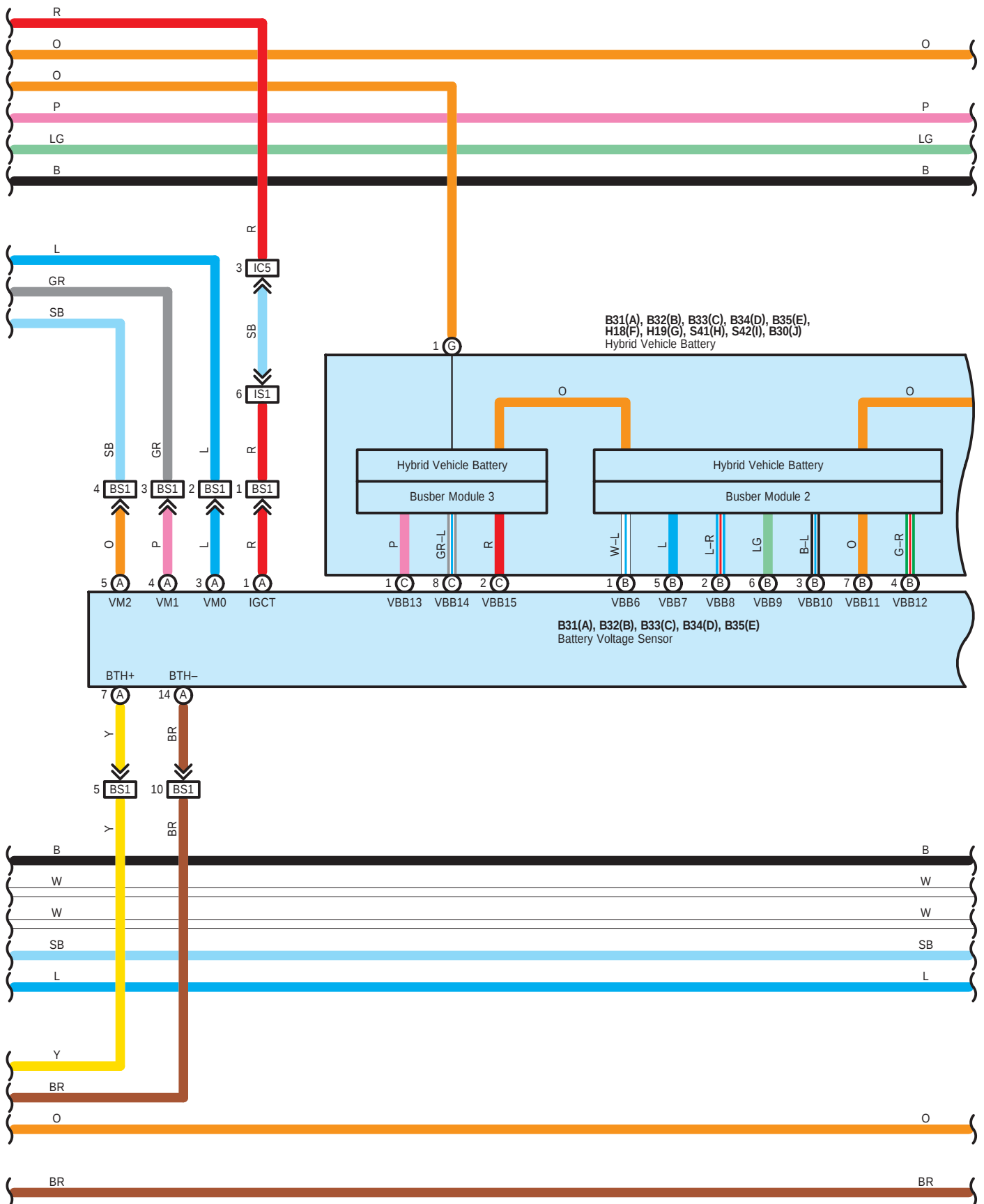


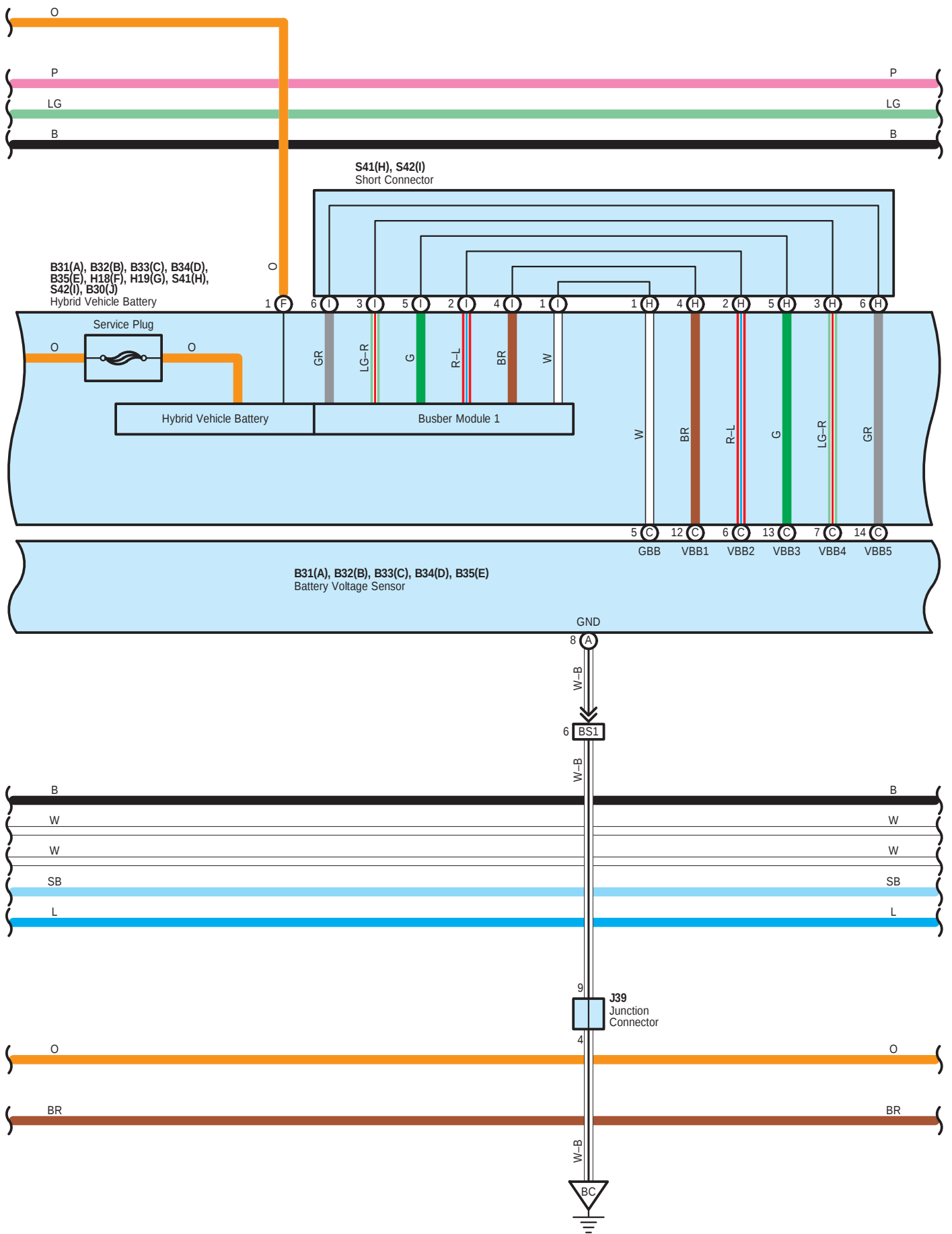
Hybrid System



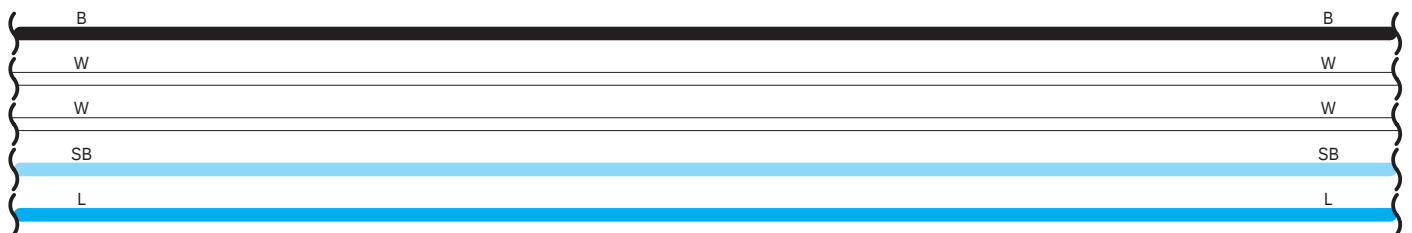
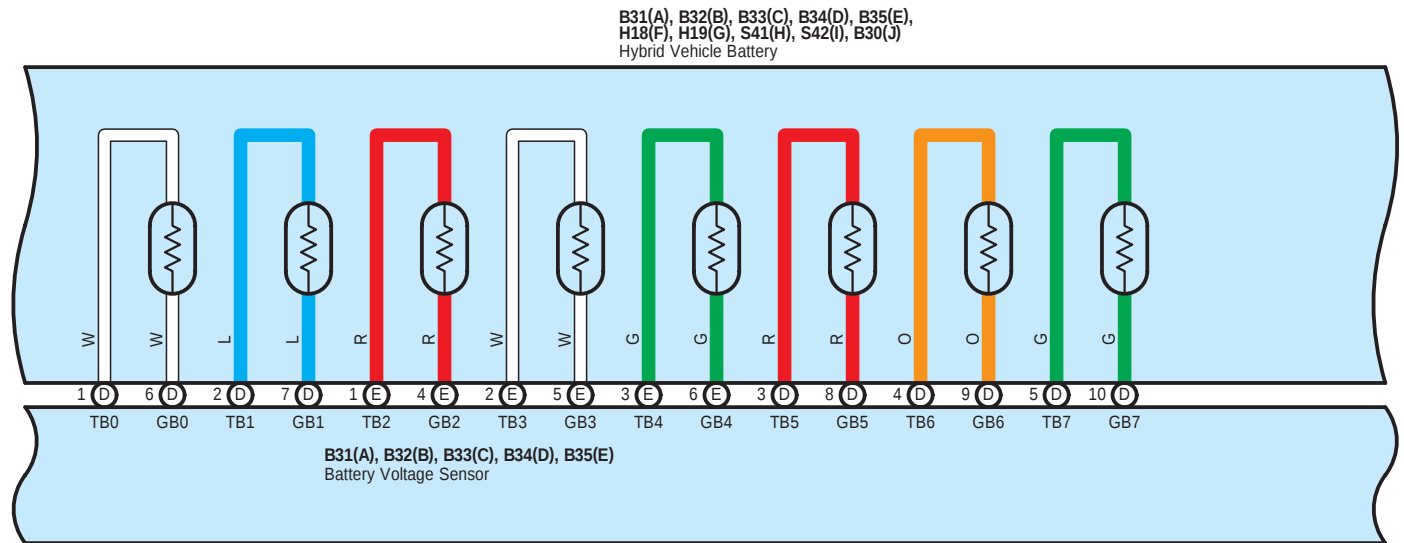


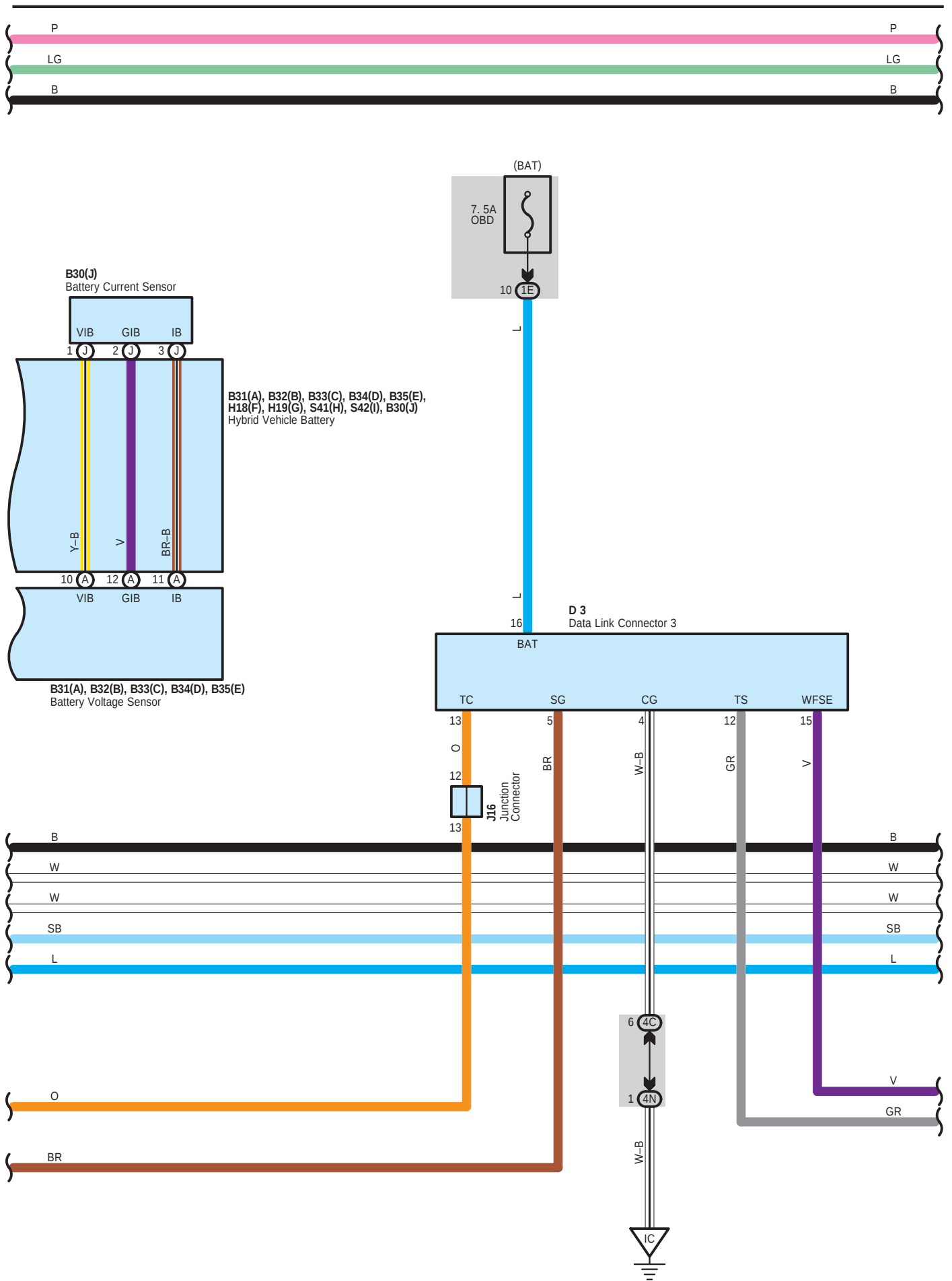
Hybrid System



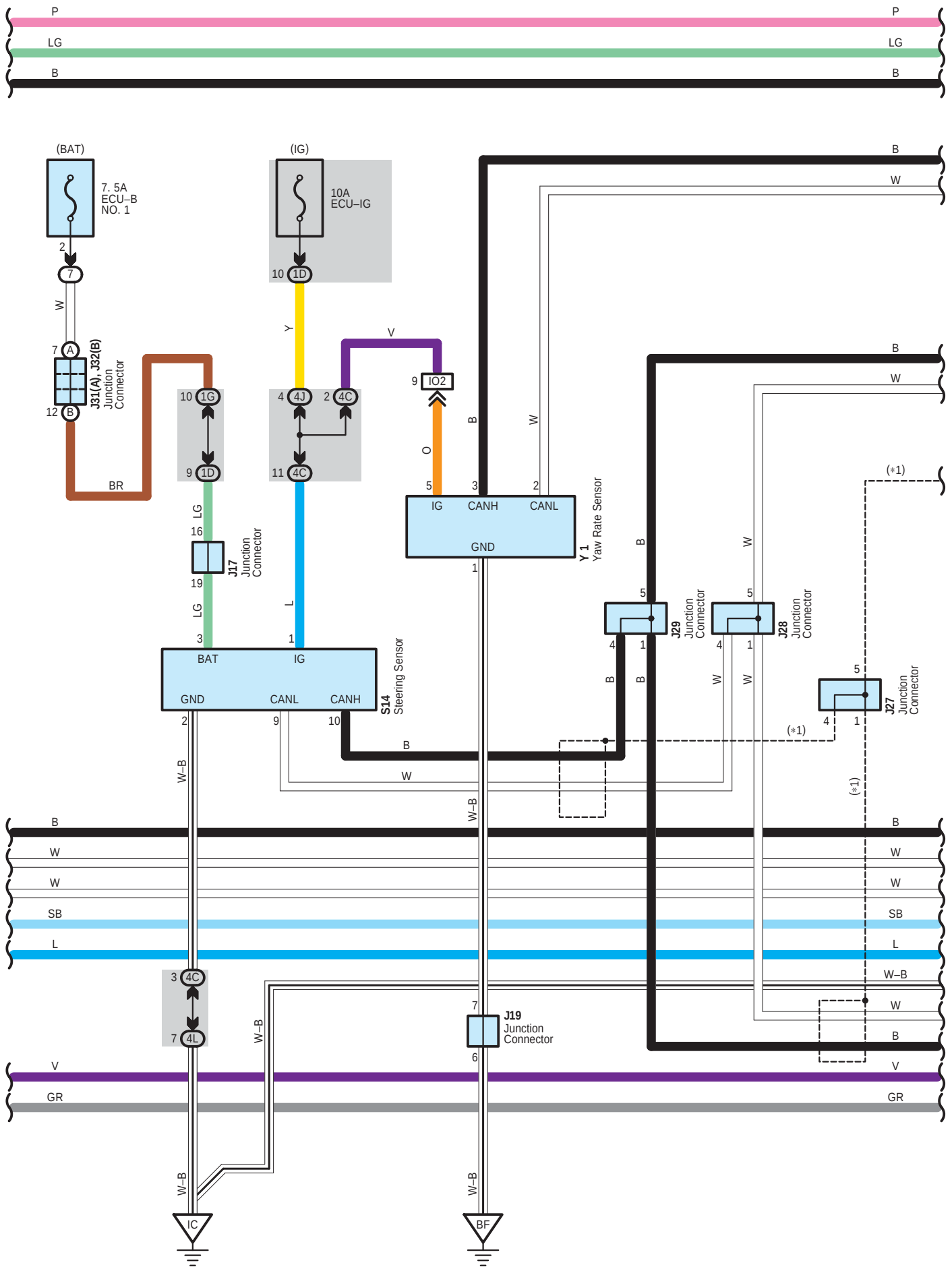


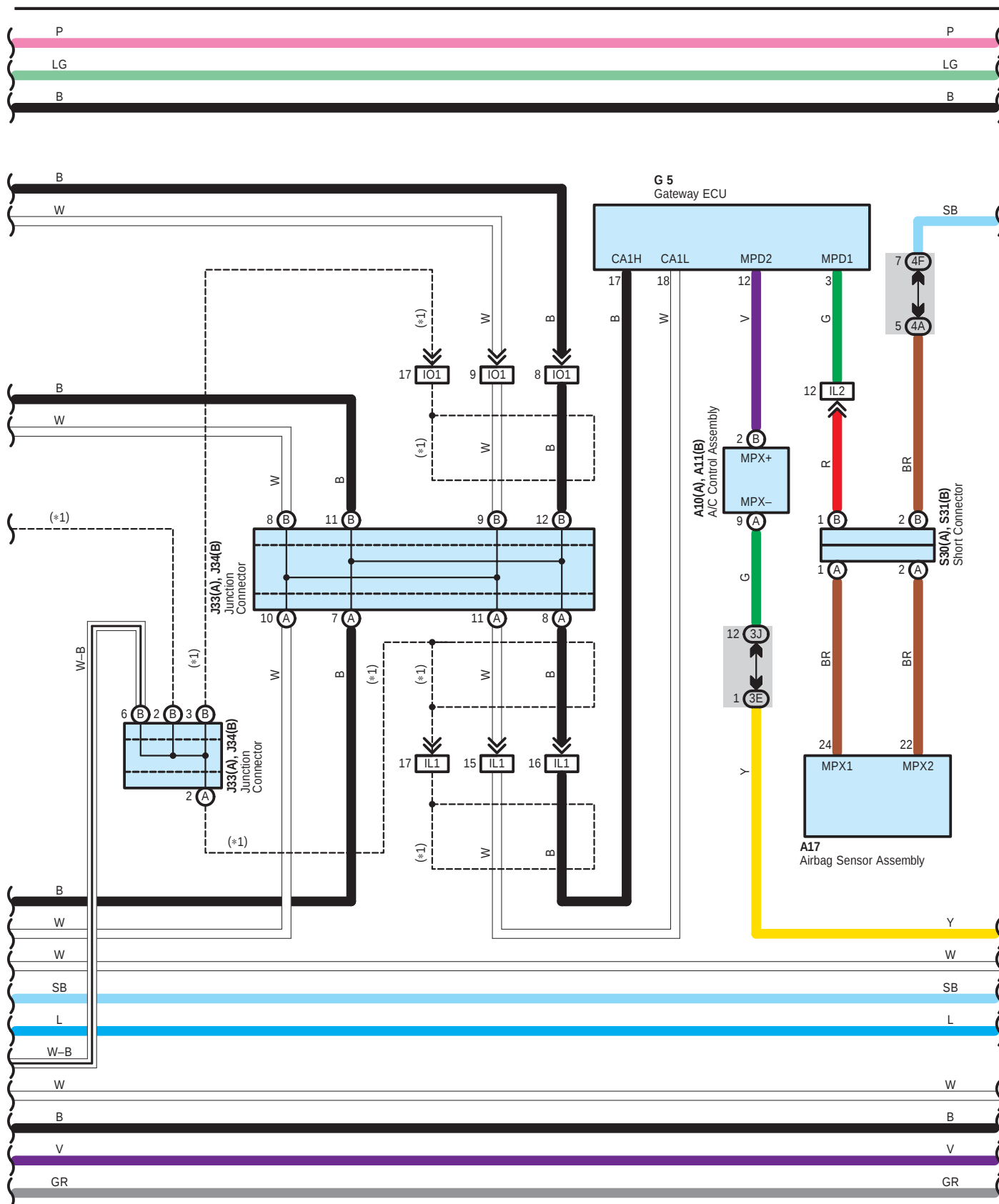
Hybrid System





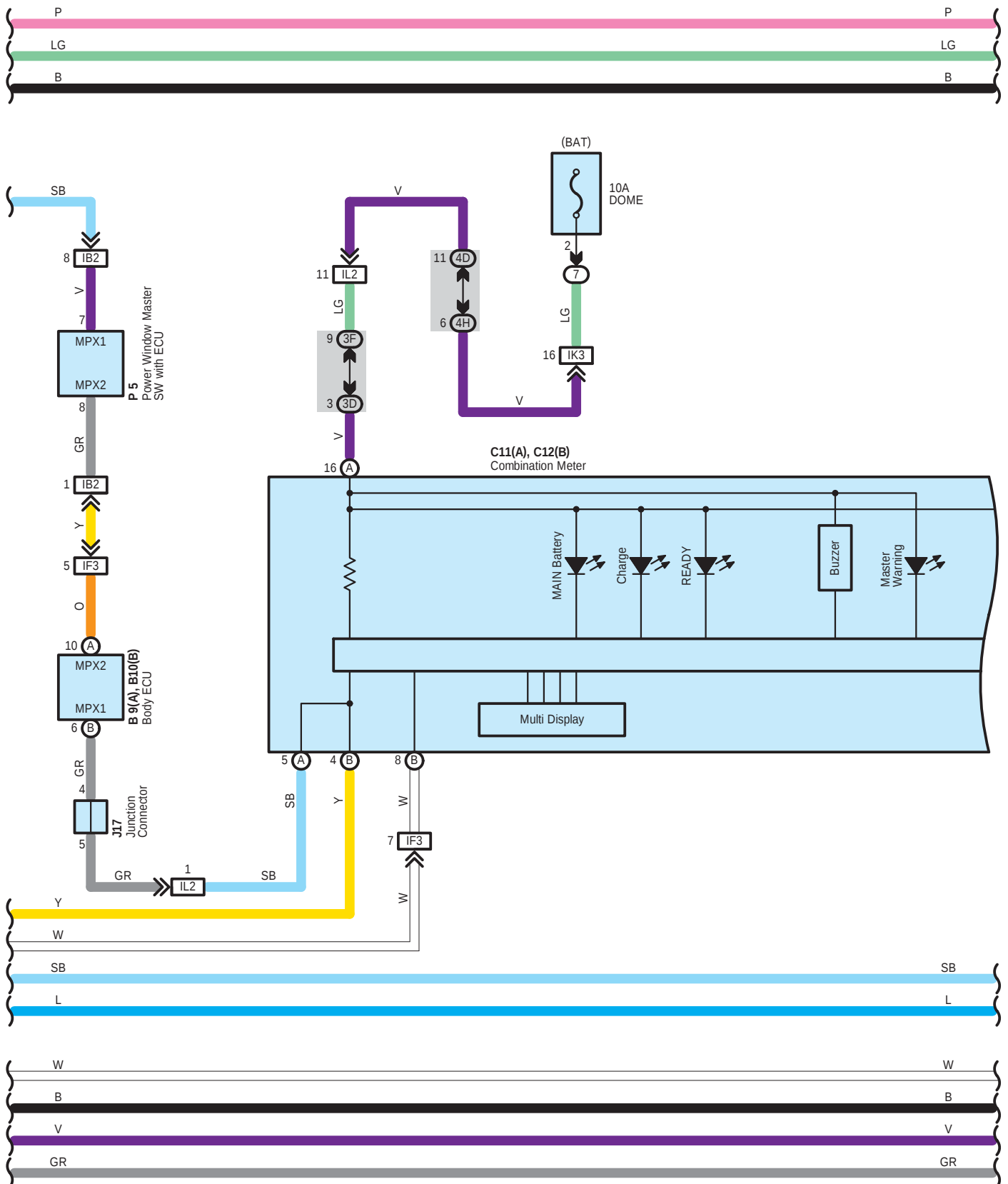
Hybrid System

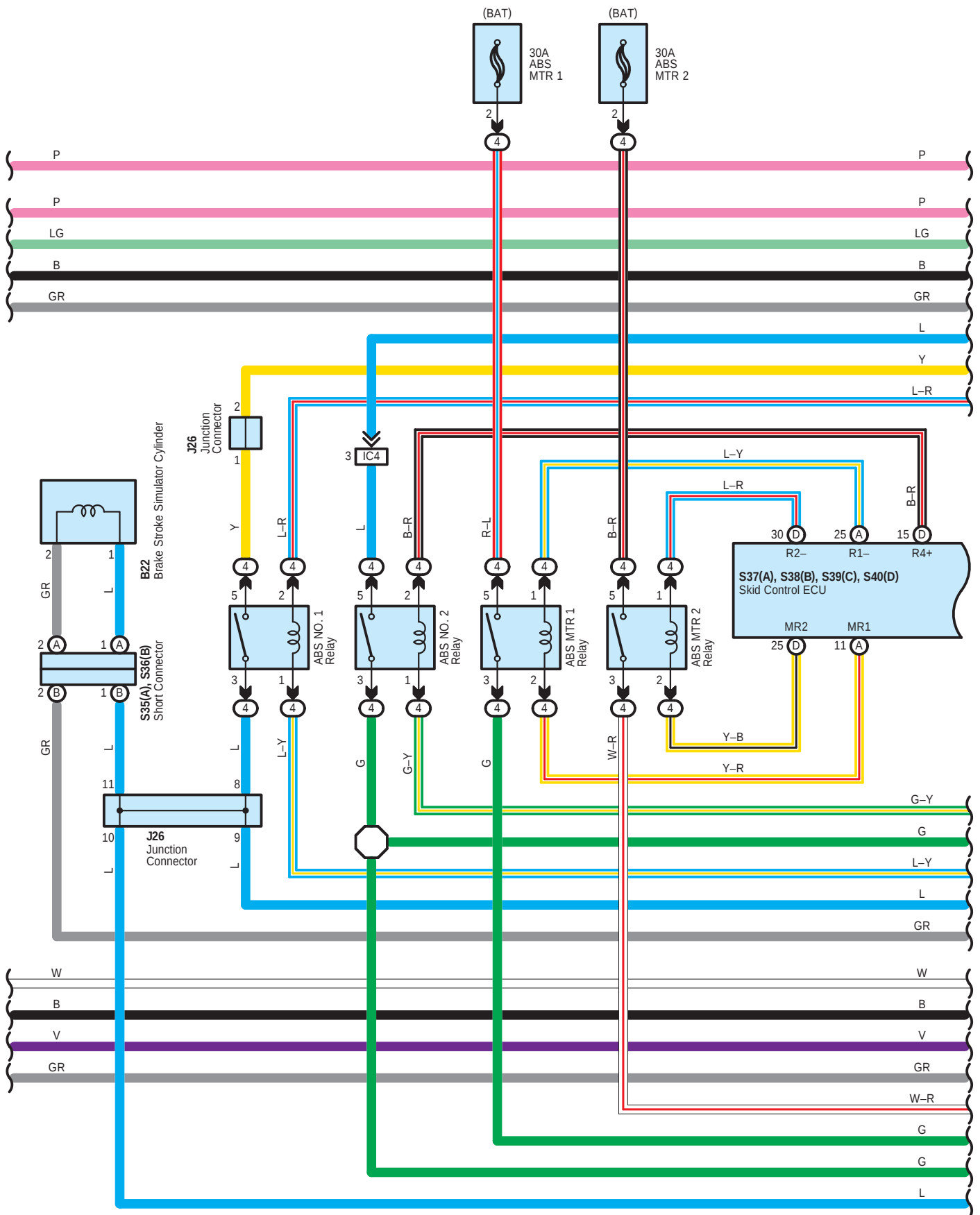


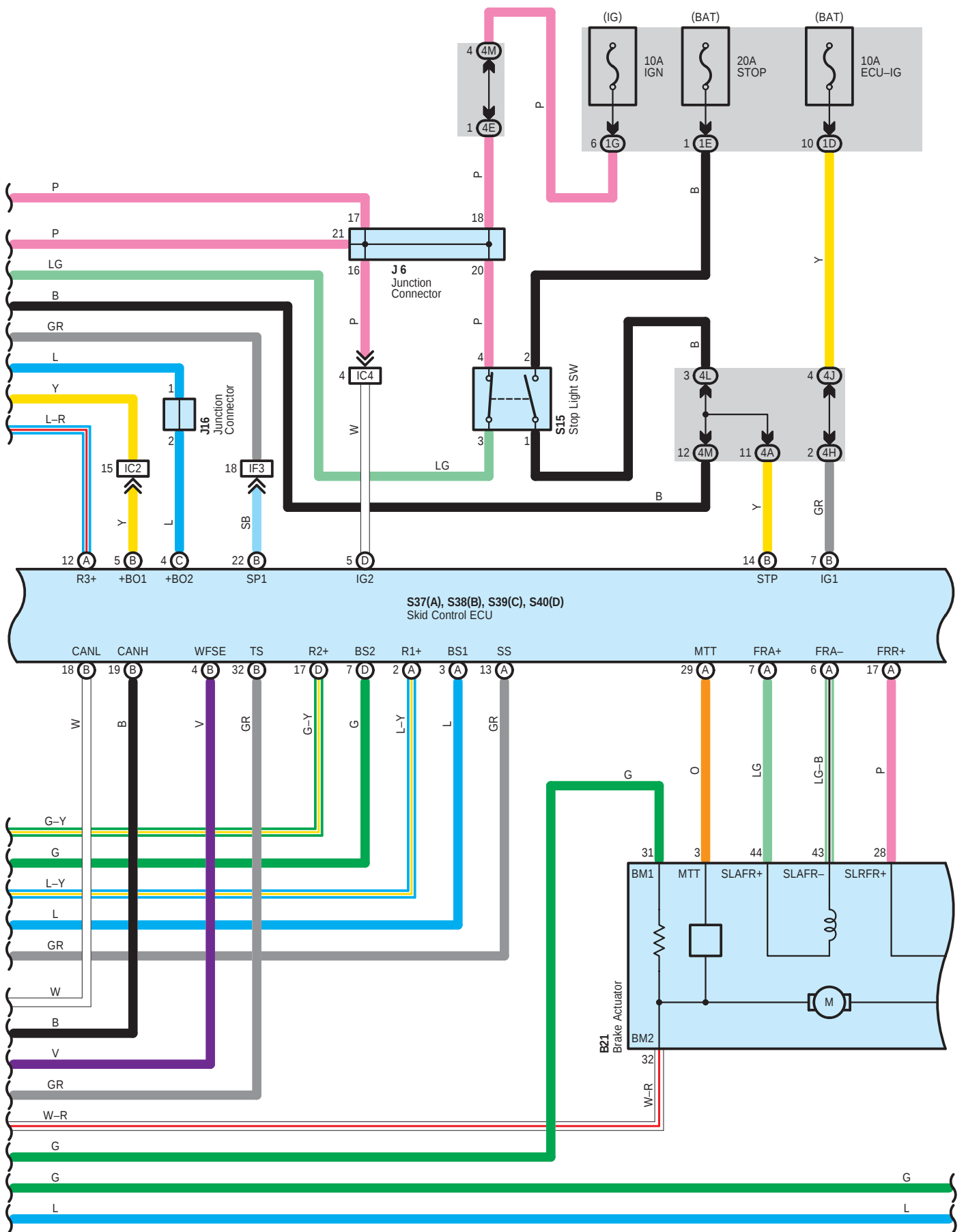


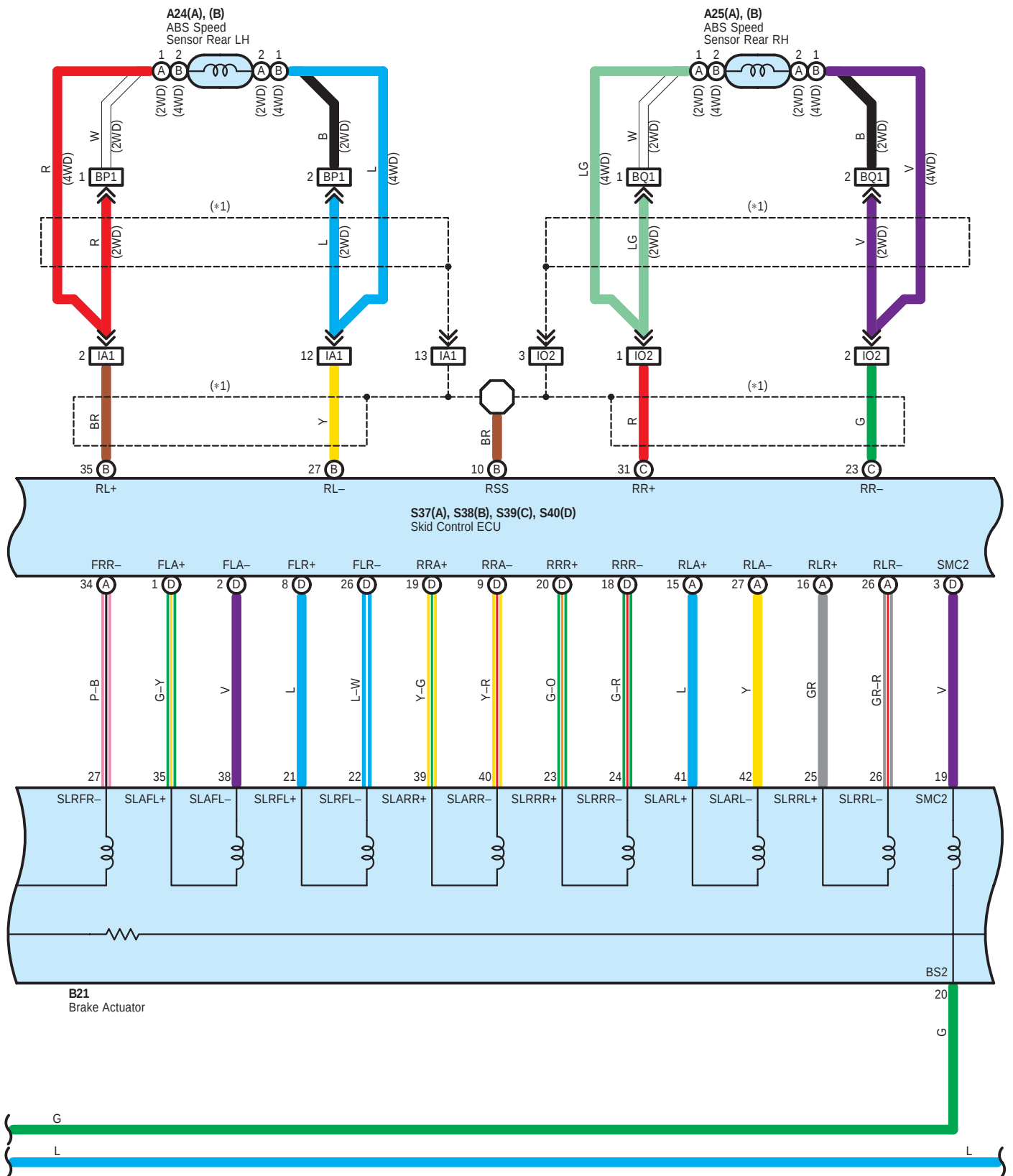
* 1 : Shielded

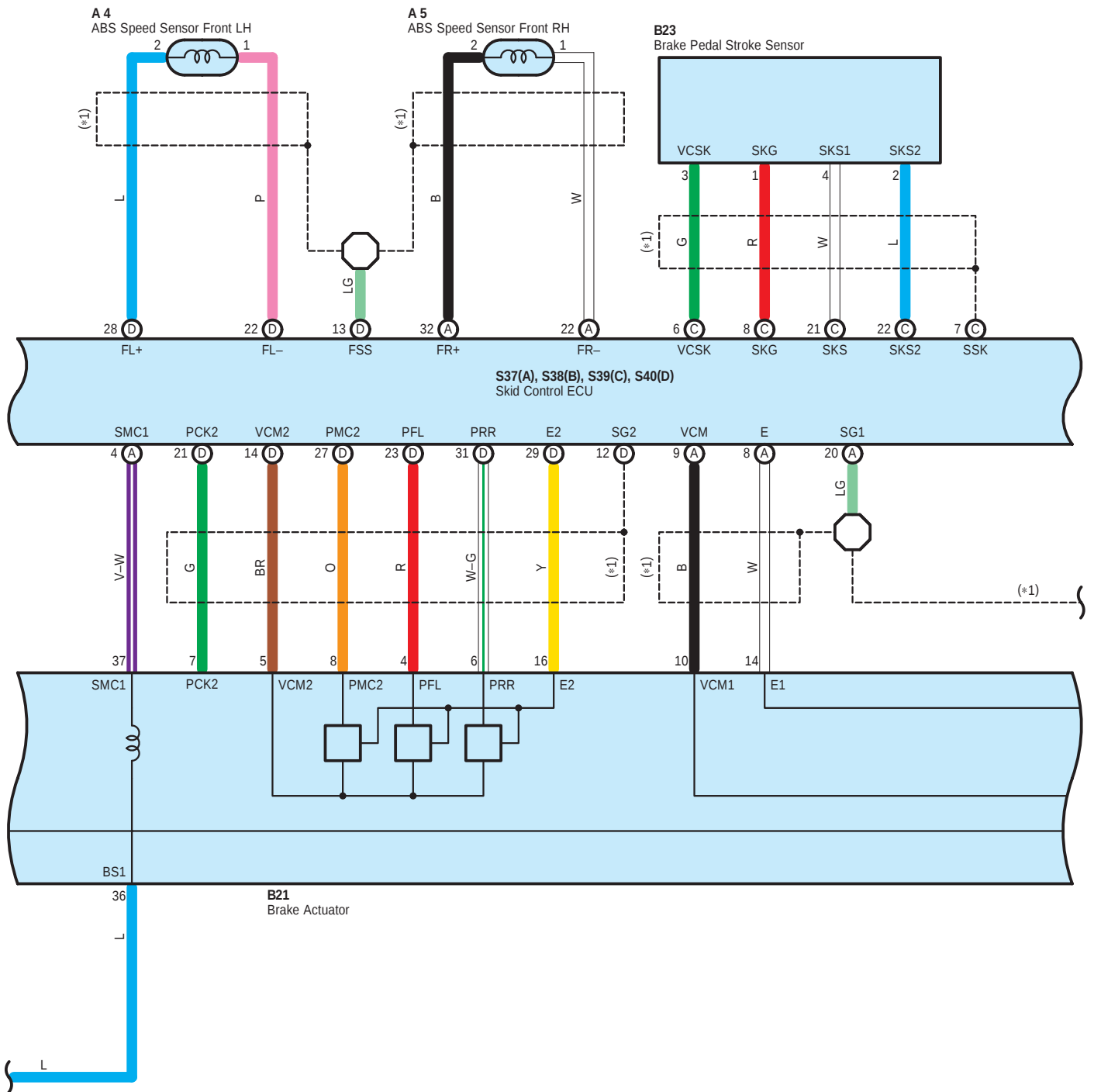
Hybrid System

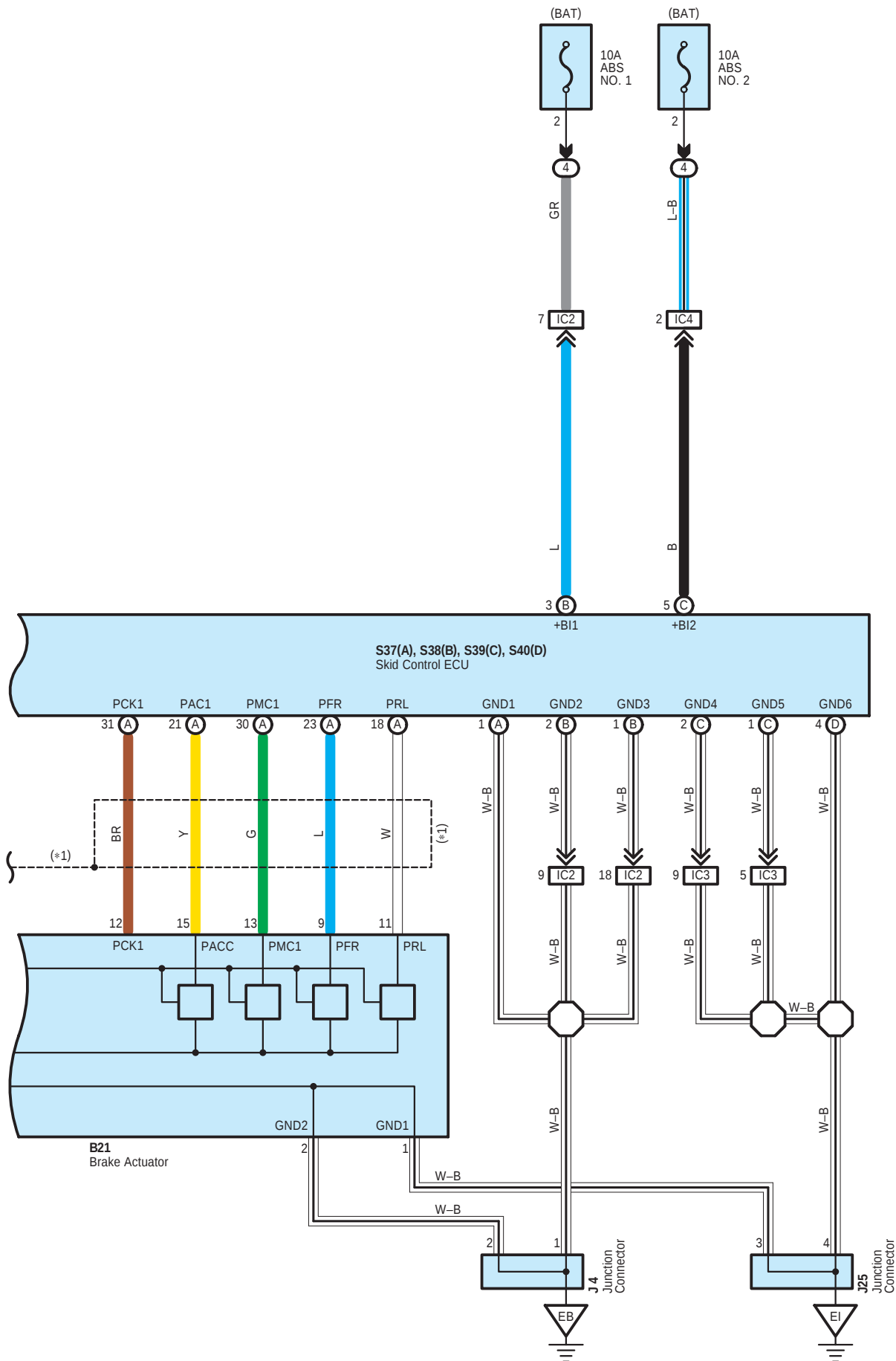












System Outline

This system controls the following modes in order to achieve the most efficient operations to match the driving conditions.

1. Motor Generator Condition

- (1) Supply of electrical power from the HV battery to motor generator no.2 (Front) provides force to drive the wheels.
- (2) While the tires are driven by the engine via the planetary gears, motor generator no.1 (Front) activates to supply electricity via the planetary gears to motor generator no.2 (Front) to drive the wheels.
- (3) When the vehicle is decelerating, kinetic energy from the wheels is recovered into electrical energy and used to recharge the HV battery by motor generator no.2 (Front).

The hybrid vehicle control ECU switches between these modes (1, 2, 1+2, or 3) according to the driving conditions. However, when the state of charge of the HV battery is low, the HV battery is charged by the engine turning motor generator no.1 (Front).

2. Inverter

- * The inverter converts high-voltage direct current of HV battery to three-phase alternating current for driving motor generator no.1 (Front) and motor generator no.2 (Front).
- * The activation of the power transistors is controlled by the motor generator control computer. In addition, the inverter transmits necessary information for current control, such as the output amperage or voltage, to the motor generator control computer.
- * Along with motor generator no.1 (Front) and motor generator no.2 (Front), the inverter is cooled by the exclusive radiator of the coolant system that is separated from that of the engine.
- * In vehicle collision, circuit breaker sensor installed in the inverter outputs collision signal to stop the system.
- * Boost converter has been adopted in the inverter, which increases rated voltage output from HV battery of DC 288V, to DC 650V. After increasing voltage, the inverter converts direct current to alternating current.

3. Converter

The power source for auxiliary equipment of the vehicle such as the lights, audio system, and the air conditioning system, as well as the ECUs, is based on a rated voltage of DC 12V system. Because the HV battery outputs at DC 288V, the converter is used to transform the voltage from rated voltage of DC 288V to DC 12V in order to recharge the auxiliary battery. The converter is installed on the underside of the inverter.

4. HV Battery

- * In HIGHLANDER Hybrid Vehicle, the sealed nickel hydride (Ni-MH) battery has been adopted. This HV battery has high power density, lightweight and longevity to match characteristics of hybrid system. Because hybrid system controls charge/discharge to maintain charge/discharge control to maintain SOC (State of charge) at constant level while the vehicle is operating normally, it does not have to rely on the use of external recharges.
- * The HV battery, battery voltage sensor, system main relay and the cooling fan are put in a signal case which is placed in the rear seat to make more effective use of vehicle space.
- * A service plug that shuts off circuit is provided in the middle of the 30 modules (Rated battery capacity = 288V). Before servicing any portion of the high-voltage circuits, make sure to remove the service plug. Please do not READY ON when you remove the service plug. There is a possibility that battery voltage sensor breaks down.
- * To ensure the HV battery's performance, the battery voltage sensor controls the operation of the cooling fan to avoid the heat that is generated in the HV battery during charging and discharging.

5. Regenerative System Operation

This system operates the motor as a generator to change the kinetic energy of the vehicle into the electricity when accel pedal is released or foot braking decelerates the vehicle speed, and store the electricity in the battery.

6. E-Four System

E-Four system realizes optimum motive force distribution under various driving conditions by changing from the front-wheel drive which focuses on fuel consumption to the four-wheel drive which focuses on traction performance. The change is brought by driving the front wheels with the motor generator no.2 (Front) and the rear wheels with the motor generator (Rear).

Hybrid System

○ : Parts Location

Code		See Page	Code		See Page	Code		See Page
A1		42	H15	E	44	J39	46	
A4		42	H16	D	44	M1	43	
A5		42	H17	F	44	M6	43	
A10	A	44	H18	F	50	M7	A	43
A11	B	44	H19	G	50	M8	B	43
A17		44	I8	43		M9	A	50
A24	A	46	I9	43		M10	B	50
	B	46	I10	43		M11	C	50
A25	A	46	I11	43		O12	43	
	B	46	I12	43		P5	46	
A27		44	I13	43		S14	45	
B9	A	44	I15	44		S15	45	
B10	B	44	I18	A	43	S28	A	45
B20		42	I19	B	43	S29	B	45
B21		42	I20	C	43	S30	A	45
B22		42	I21	D	43	S31	B	45
B23		44	I22	E	43	S34	43	
B27		50	I23	F	43	S35	A	43
B28		50	I24	G	43	S36	B	43
B29		50	I25	46		S37	A	45
B30	J	50	J2	43		S38	B	45
B31	A	50	J4	43		S39	C	45
B32	B	50	J6	45		S40	D	45
B33	C	50	J16	45		S41	H	50
B34	D	50	J17	45		S42	I	50
B35	E	50	J19	46		S43	A	50
C3		42	J20	46		S44	B	50
C4		42	J25	43		S45	C	50
C7		42	J26	45		S46	D	50
C11	A	44	J27	45		S47	E	50
C12	B	44	J28	45		S48	F	50
C20		42	J29	45		T13	43	
D3	44		J31	A	45	T14	45	
E2	42		J32	B	45	V6	43	
F12	46		J33	A	45	V7	43	
G5	44		J34	B	45	W8	43	
H12	A	44	J35	45		Y1	47	
H13	B	44	J36	A	45			
H14	C	44	J37	B	45			

○ : Relay Blocks

Code	See Page	Relay Blocks (Relay Block Location)
2	25	R/B No.2 (Engine Compartment Left)
3	26	R/B No.3 (Engine Compartment Left)
4	27	R/B No.4 (Engine Compartment Left)
7	24	Fusible Link Block (Engine Compartment Left)



: Junction Block and Wire Harness Connector

Code	See Page	Junction Block and Wire Harness (Connector Location)
1D	31	Cowl Wire and Instrument Panel J/B (Lower Finish Panel)
1E		
1G		
2D	28	Engine Room Main Wire and Engine Room J/B (Engine Compartment Left)
2E		
2G		
3B	34	Instrument Panel Wire and J/B No.3 (Behind the Instrument Panel Center)
3D		
3E		
3F	35	
3J		
3K		
4A	39	Cowl Wire and J/B No.4 (Right Side of Glove Box)
4C		
4D		
4E	38	
4F		
4H		
4J	38	
4L		
4M		
4N	24	Engine Room No.2 Wire and Fusible Link Block (Engine Compartment Left)
7F		



: Connector Joining Wire Harness and Wire Harness

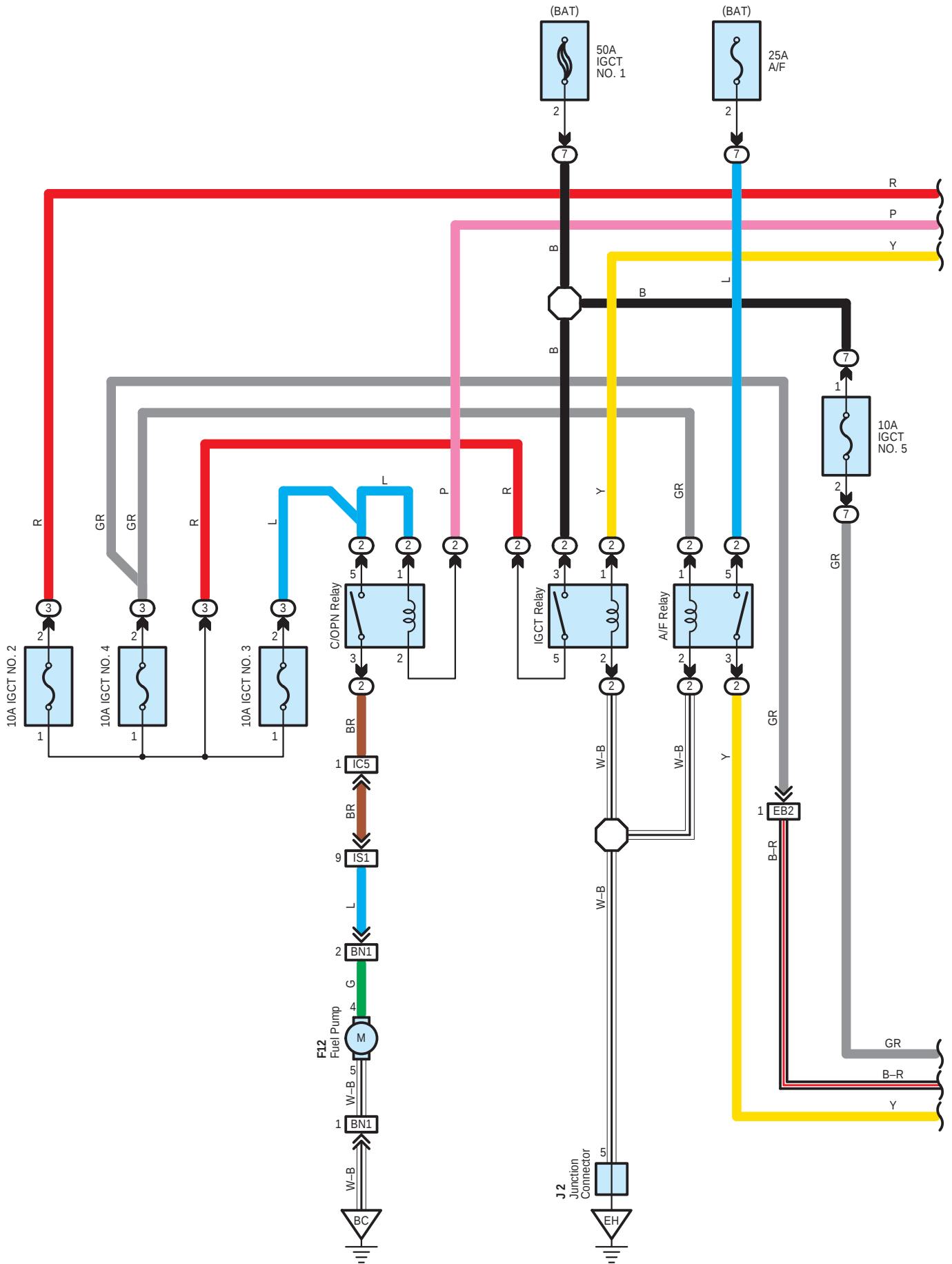
Code	See Page	Joining Wire Harness and Wire Harness (Connector Location)
EB1	52	Engine Wire and Engine Room Main Wire (Front Side of Engine Room R/B No.4)
EB2		
EC1	52	Engine Room Main Wire and Frame No.3 Wire (Left Side of the Suspension Tower)
EC2		
IA1	54	Cowl Wire and Floor No.2 Wire (Left Kick Panel)
IA2		
IB2	54	Front Door LH Wire and Cowl Wire (Left Kick Panel)
IC1	54	Engine Room Main Wire and Cowl Wire (Left Cowl Side Panel)
IC2		
IC3		
IC4		
IC5		
IF3	54	Instrument Panel Wire and Cowl Wire (Right Side of Instrument Panel J/B)
IK2	55	Engine Room Main Wire and Cowl Wire (Right Cowl Side Panel)
IK3		
IL1	55	Instrument Panel Wire and Cowl Wire (Right Cowl Side Panel)
IL2		
IO1	55	Cowl Wire and Floor Wire (Right Kick Panel)
IO2		
IS1	55	Floor No.2 Wire and Cowl Wire (Left Kick Panel)
IT1	55	Floor No.2 Wire and Cowl Wire (Under the Shift Lever)
BN1	56	Fuel Tank Wire and Floor No.2 Wire (Front Side of Rear Quarter Wheel House LH)
BP1	56	Skid Control LH Wire and Floor No.2 Wire (Left Rear Quarter Panel)
BQ1	56	Skid Control RH Wire and Floor Wire (Right Rear Quarter Panel)
BS1	60	Floor No.2 Wire and Battery Pack Wire (Near the HV Battery)
BT1	60	Floor No.2 Wire and Battery Pack No.2 Wire (Near the HV Battery)

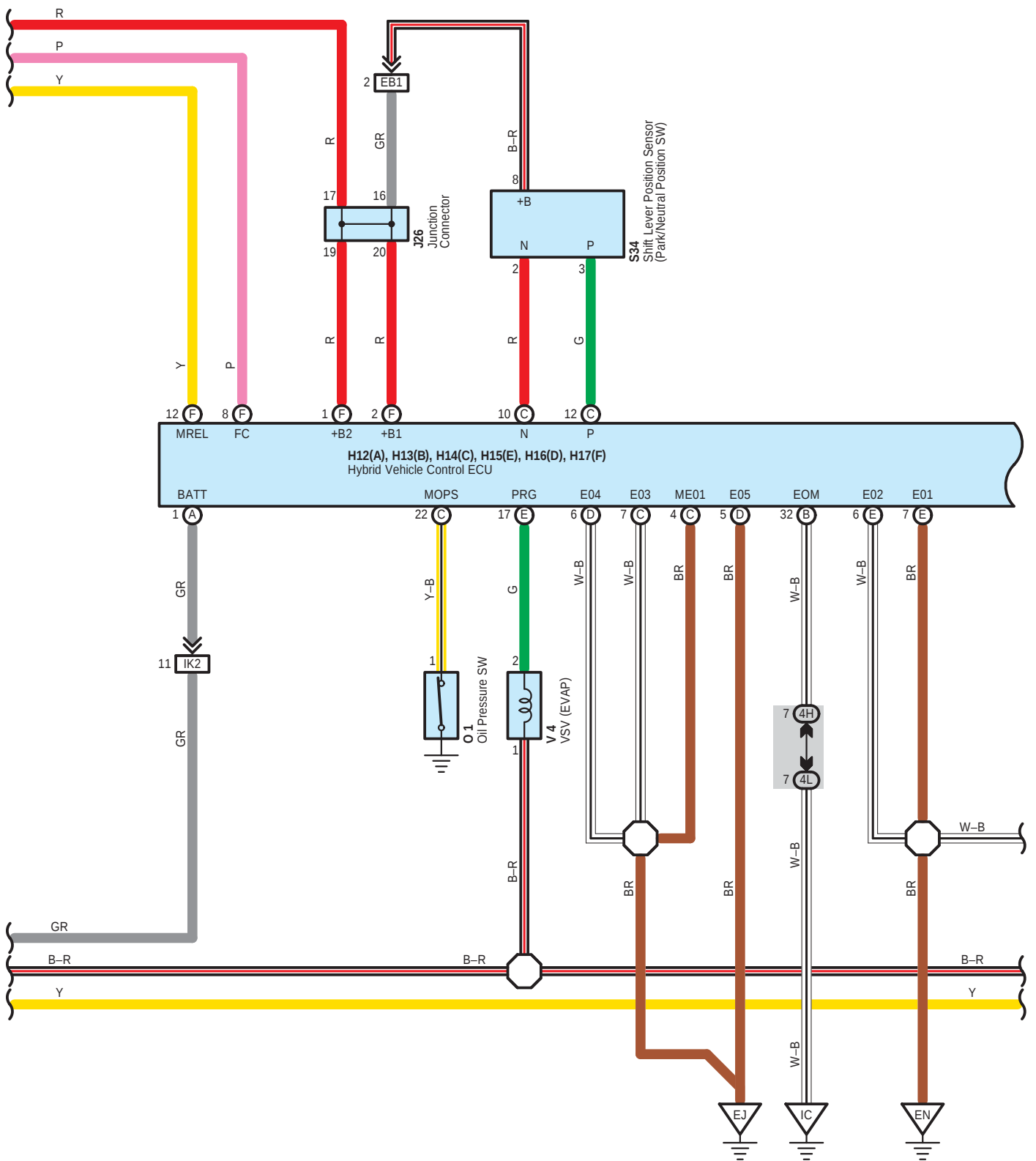
Hybrid System

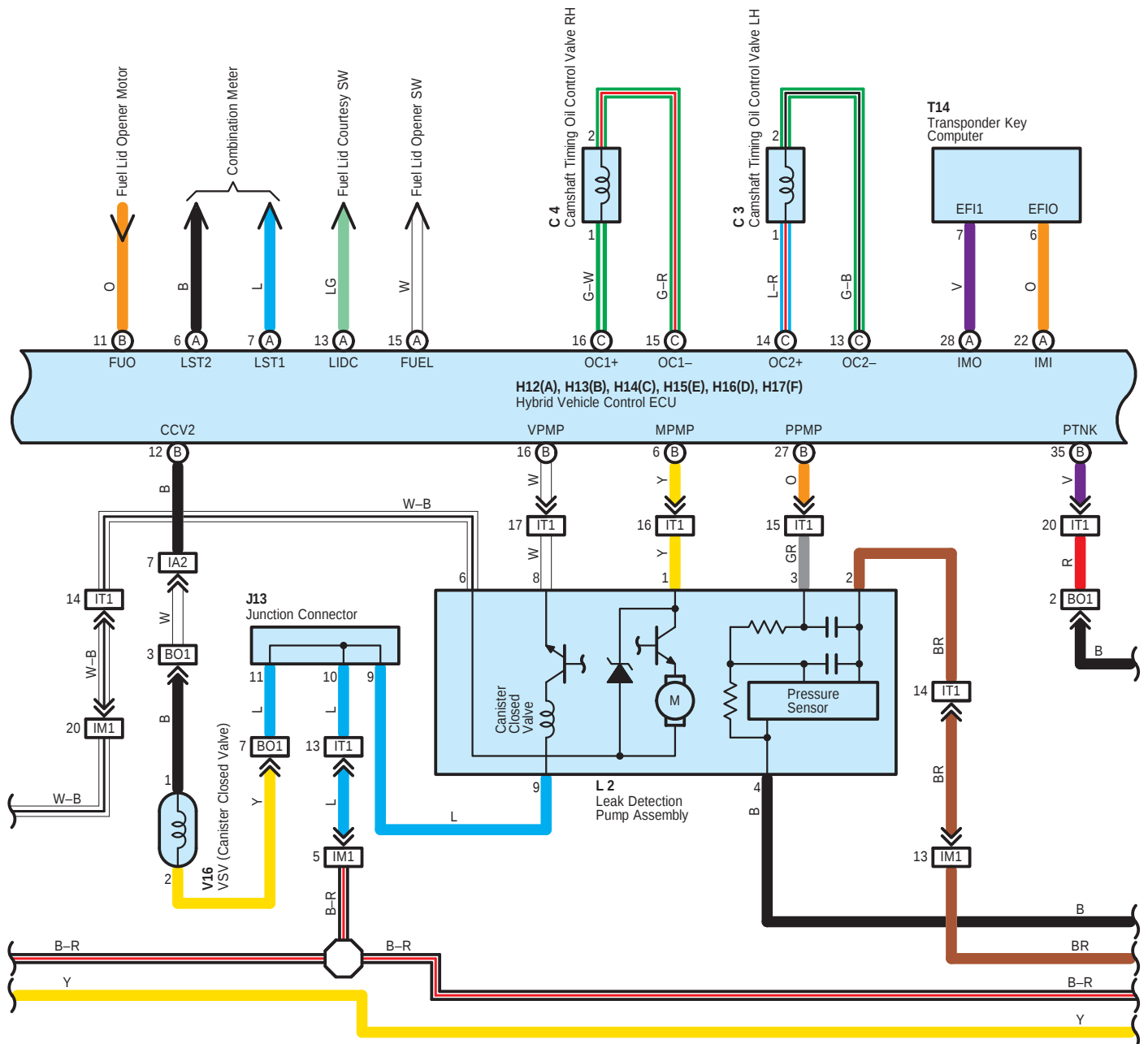


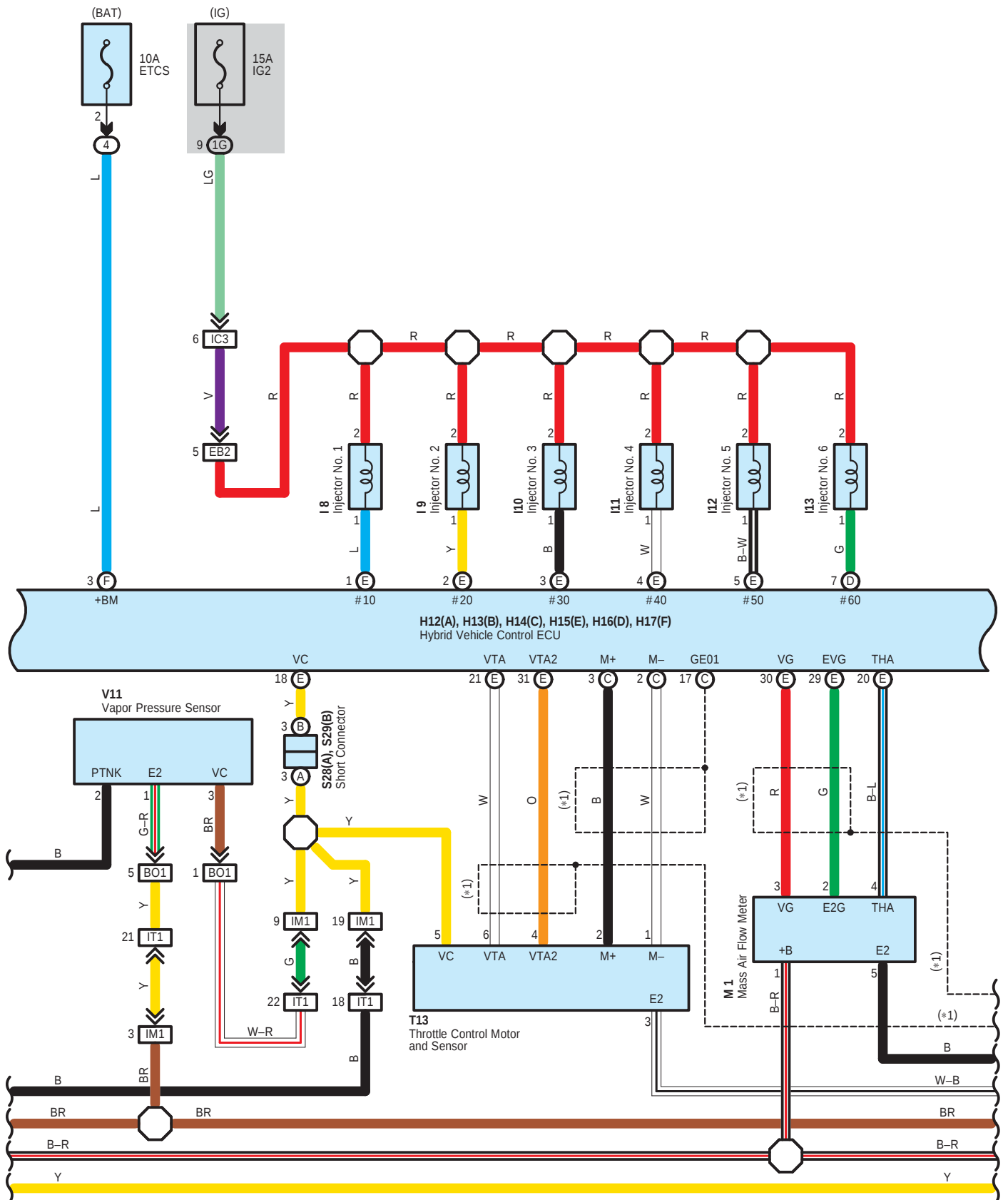
: Ground Points

Code	See Page	Ground Points Location
EB	52	Right Front Fender Apron
EH	52	Under the Left Headlight
EI	52	Right Front Fender Apron
EJ	52	Right Side of the Cylinder Head
EN	52	Left Side of the Cylinder Head
IB	54	Right Instrument Panel Brace
IC	54	Right Cowl Side Panel
BC	56	Left Side of Rear Cross Member
BF	56	Near the Rear Side Marker Light RH

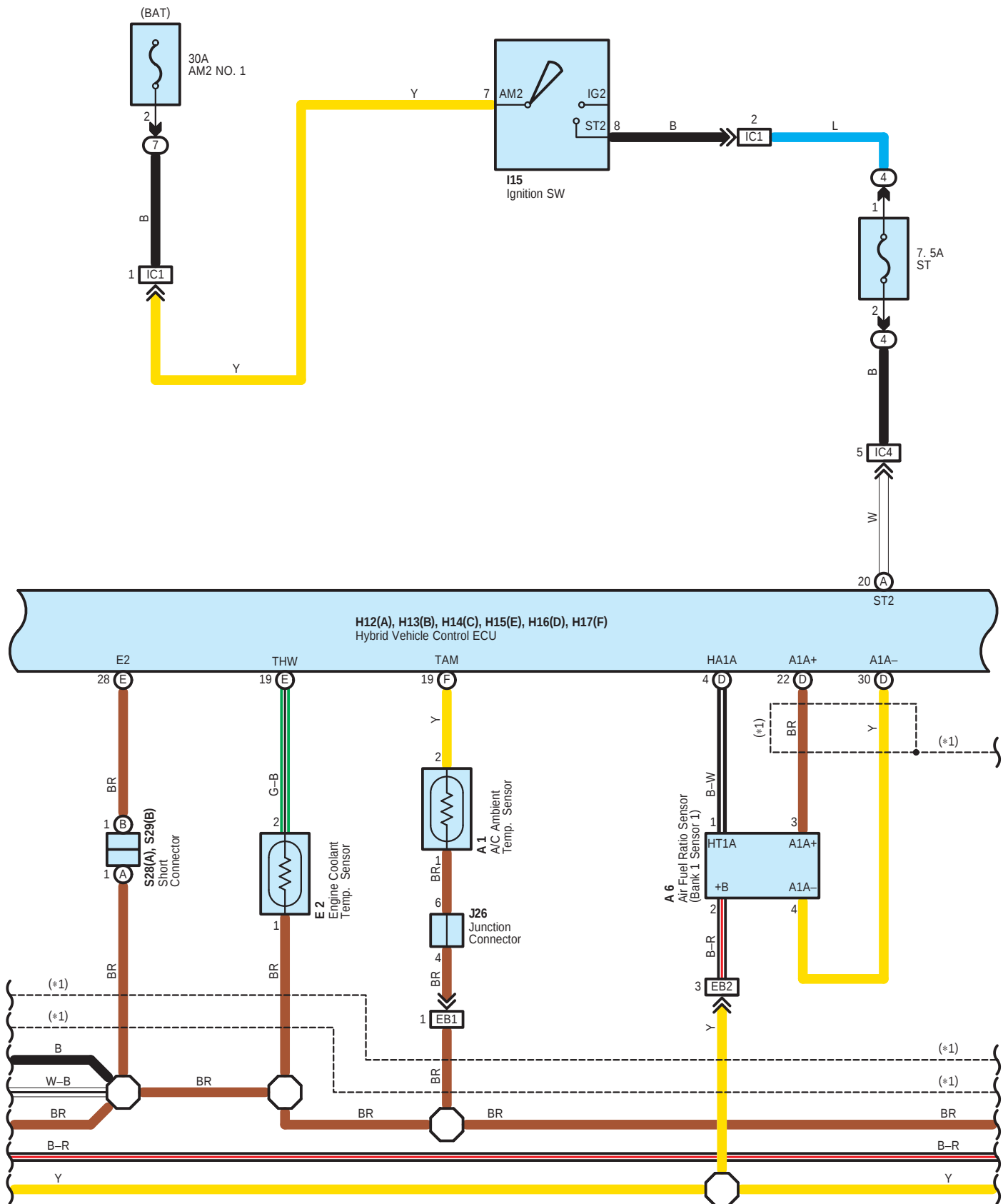


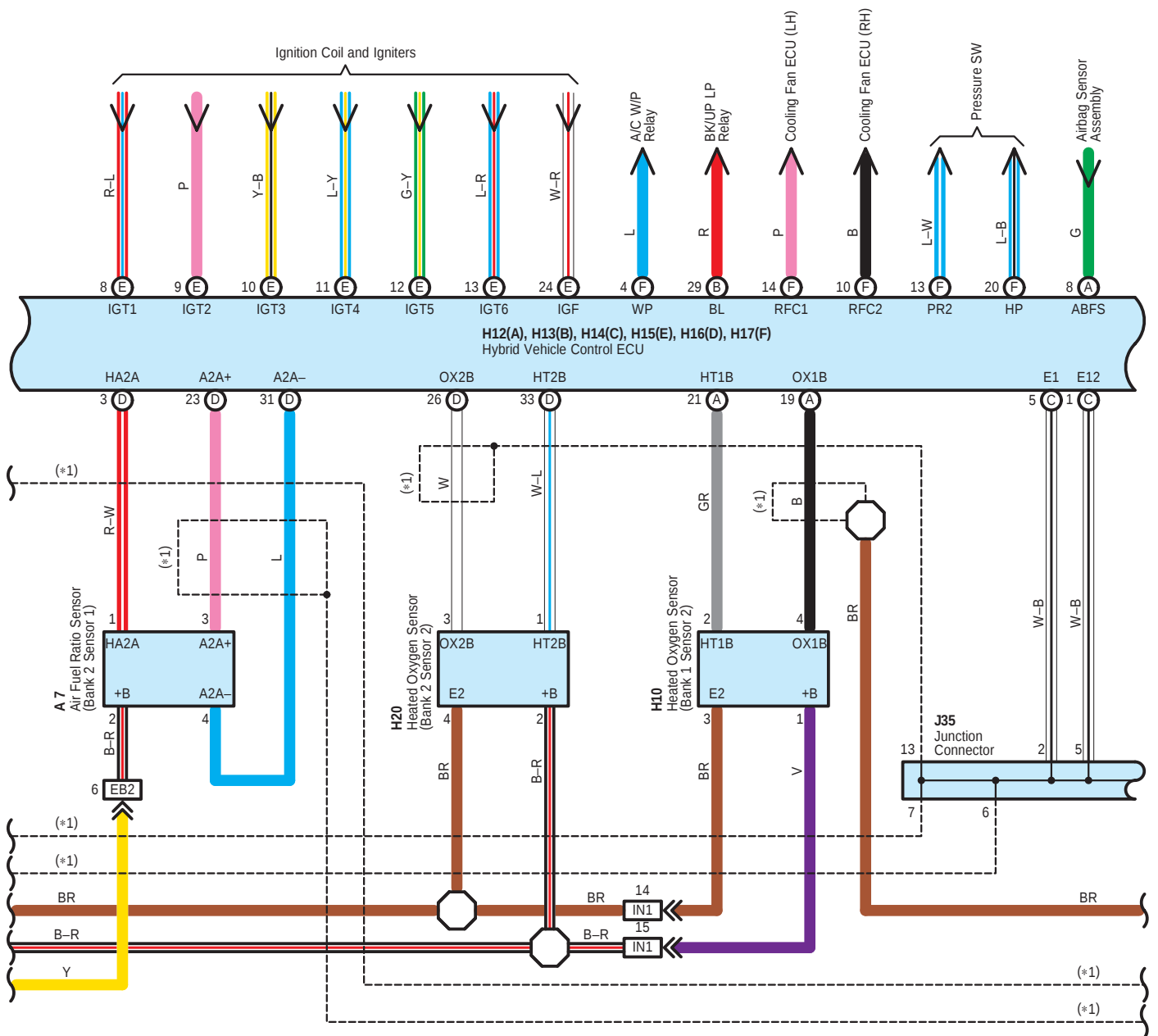


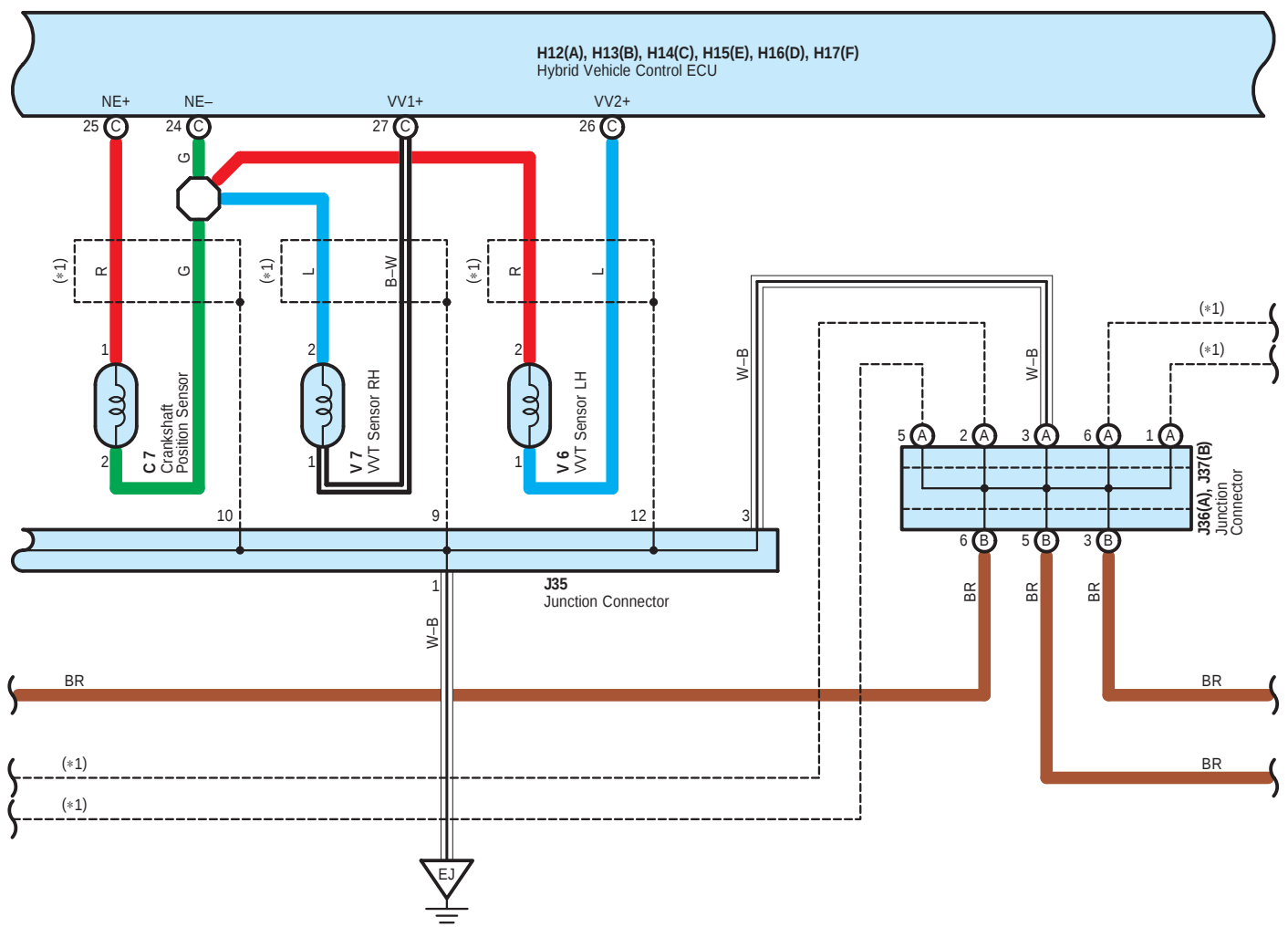




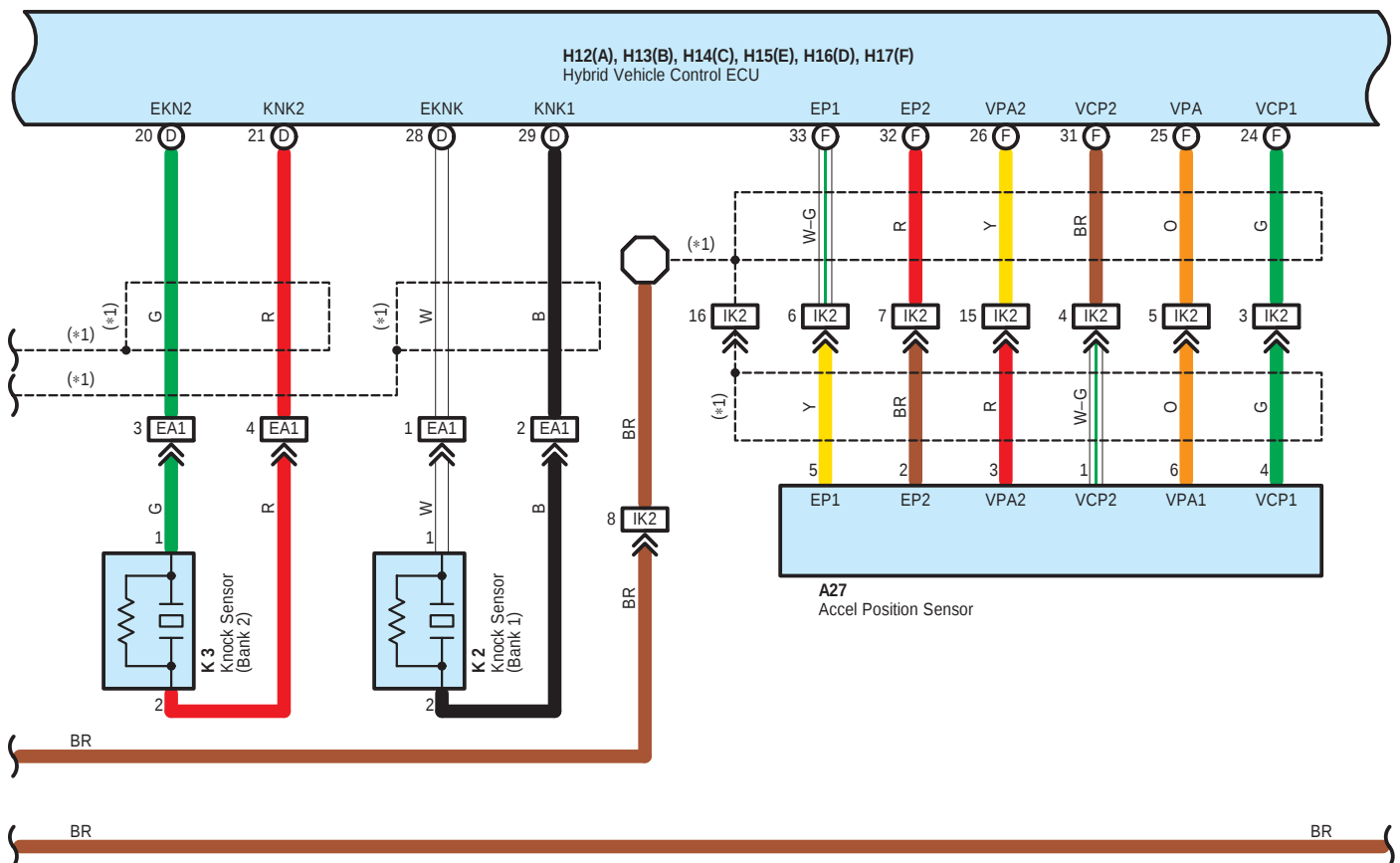
Engine Control



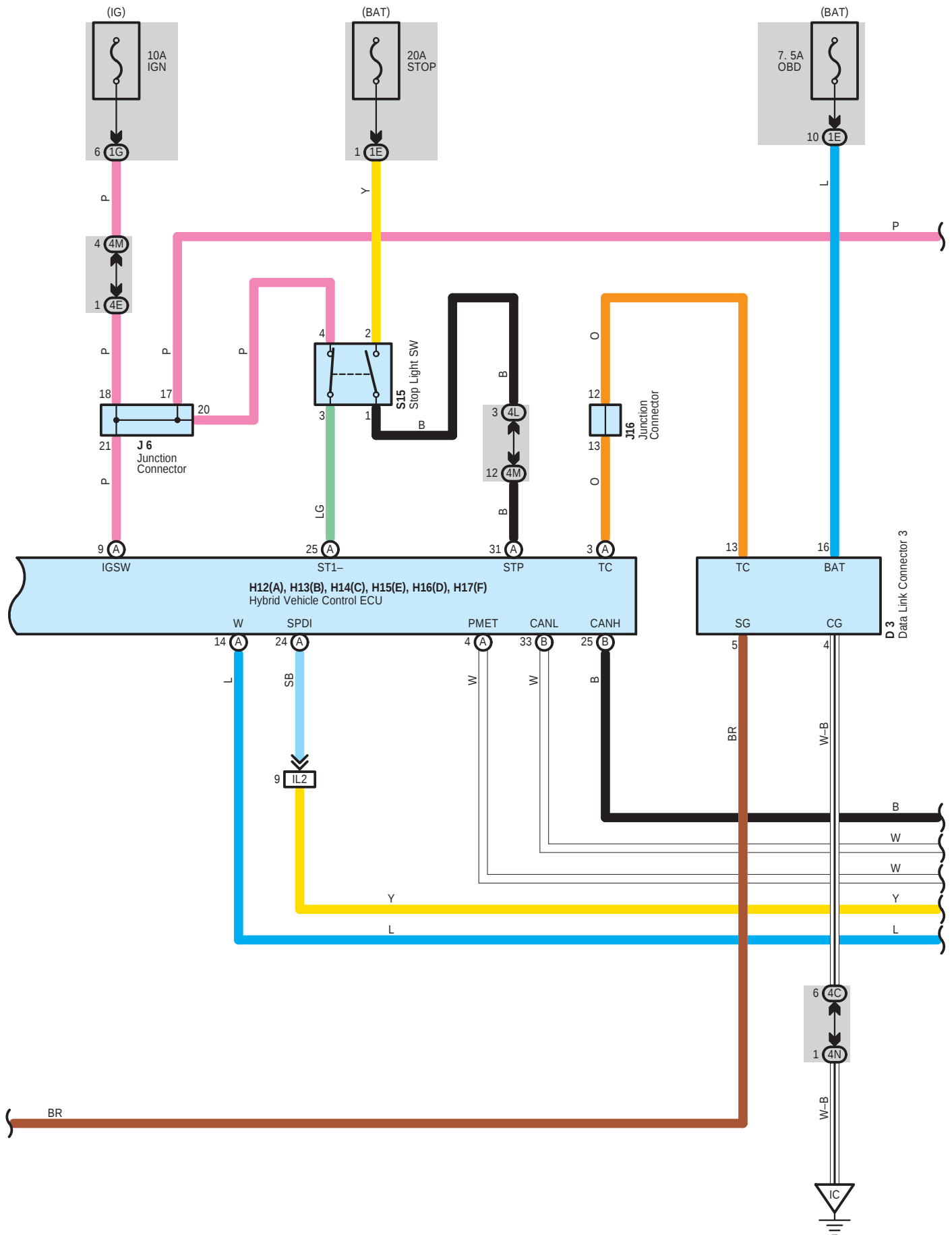


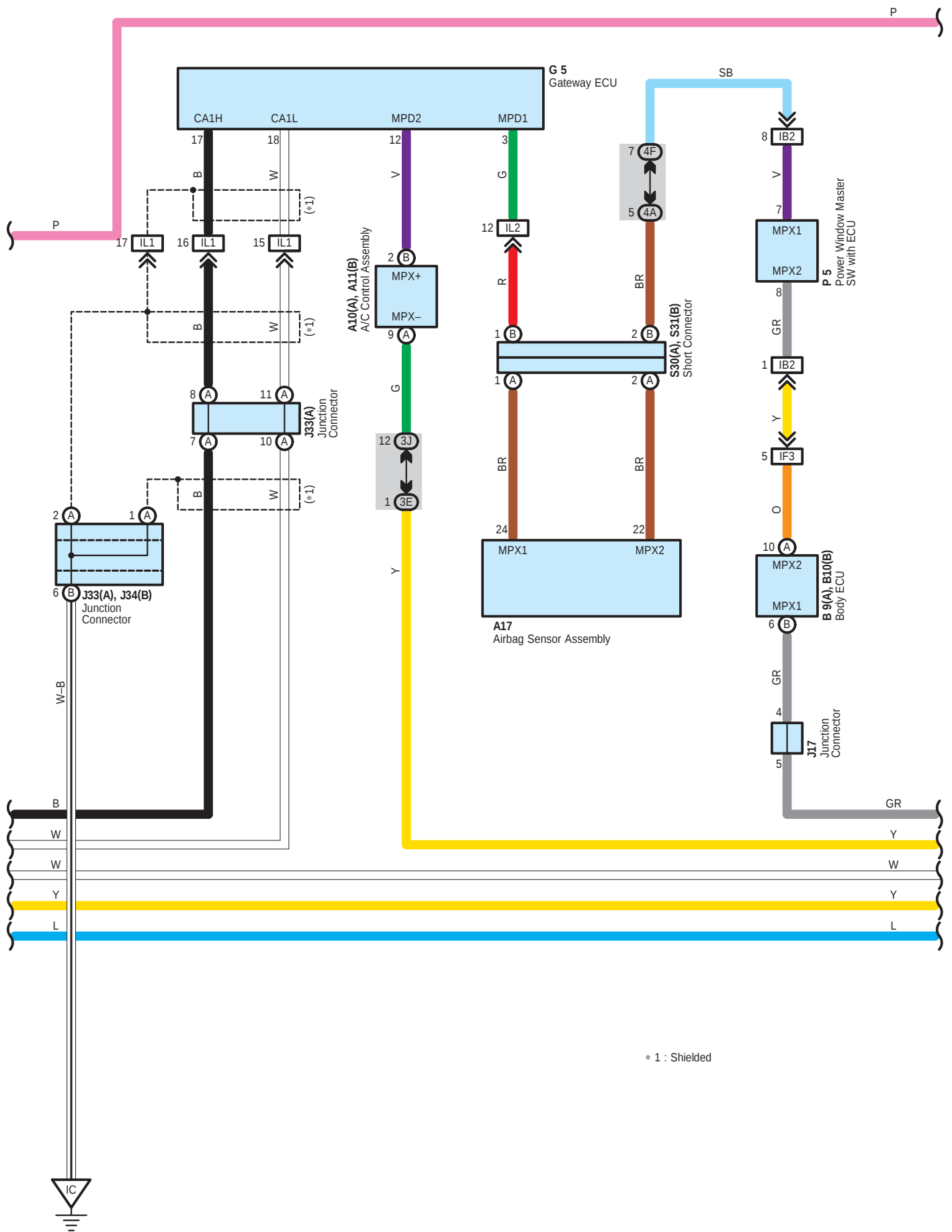


* 1 : Shielded



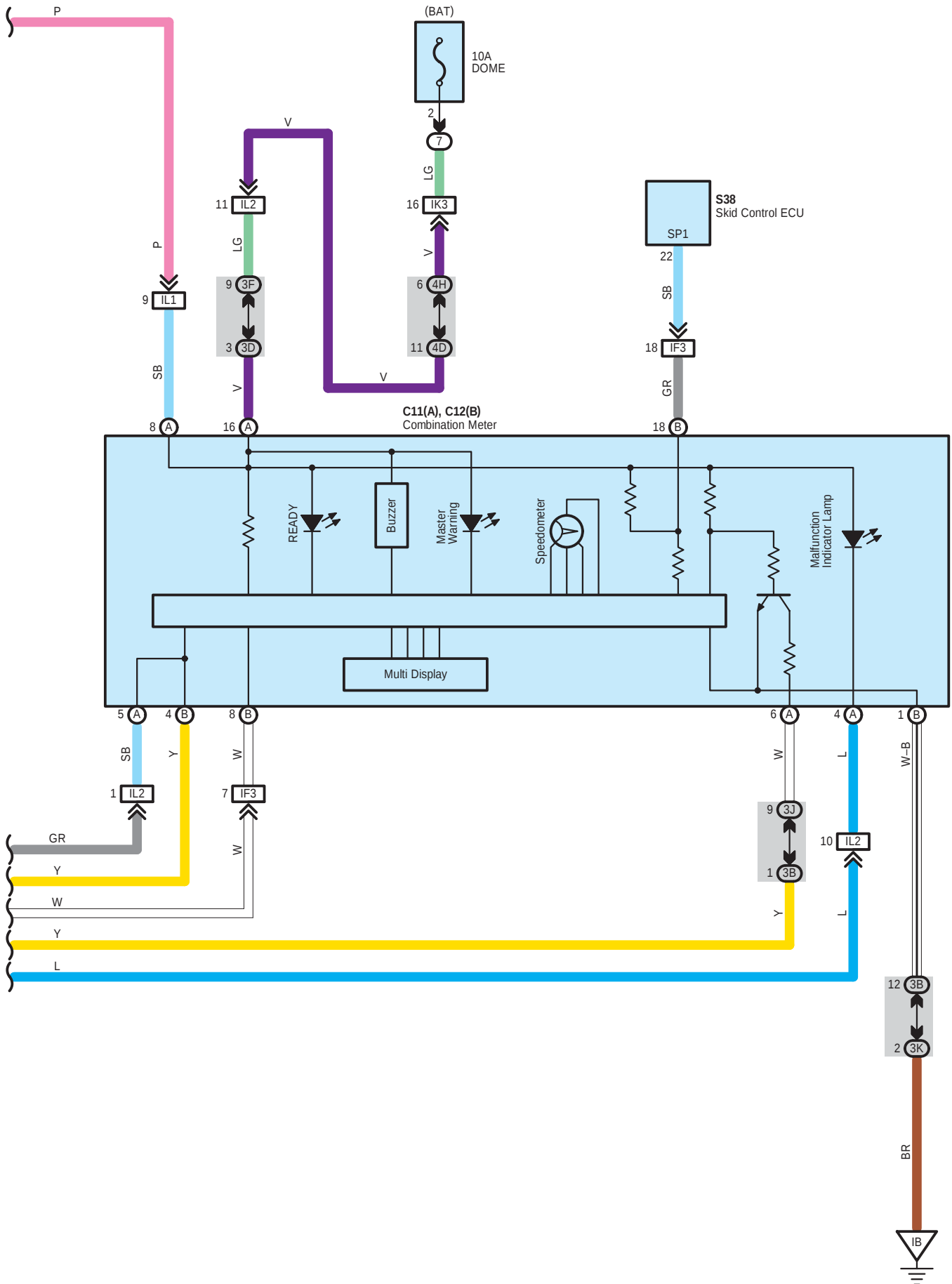
Engine Control





* 1 : Shielded

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. which is input into TERMINAL THW of the hybrid vehicle control ECU 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 hybrid vehicle control ECU.
- (3) Vehicle speed signal circuit
The vehicle speed signal is input from the ABS speed sensor to skid control ECU, and are sent to the hybrid vehicle control ECU through communication control.
- (4) RPM signal circuit
Camshaft position is detected by the VVT sensors and its signal is input to TERMINALS VV1+ and VV2+ of the hybrid vehicle control ECU as a control signal. Also, engine RPM is detected by the crankshaft position sensor and is input as a control signal to TERMINAL NE+.
- (5) Throttle position signal circuit
The throttle control motor and sensor detects the throttle valve opening angle as a control signal, which is input into TERMINALS VTA1 and VTA2 of the hybrid vehicle control ECU.
- (6) Battery signal circuit
Voltage is constantly applied to TERMINAL BATT of the hybrid vehicle control ECU. With the ignition SW turned on, the voltage for hybrid vehicle control ECU start-up power supply is applied to TERMINALS +B1 and +B2 of the hybrid vehicle control ECU through the IGCT NO.2 fuse.
- (7) Intake air volume signal circuit
Intake air volume is detected by the mass air flow meter and the signal is input to TERMINAL VG of the hybrid vehicle control ECU as a control signal.
- (8) 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 hybrid vehicle control ECU as a control signal.
- (9) Engine knock signal circuit
Engine knocking is detected by knock sensors and the signal is input into TERMINALS KNK1 and KNK2 as a control signal.
- (10) Air fuel ration signal circuit
The air fuel ration is detected and input as a control signal into TERMINALS A1A+ and A2A+ of the hybrid vehicle control ECU.
- (11) Oxygen sensor signal circuit
The oxygen density in the exhaust gases is detected and input as a control signal into TERMINALS OX1B and OX2B of the hybrid vehicle control ECU.
To maintain stable detection performance by the heated oxygen sensor, a heater is used for warming the sensor. The heater is also controlled by the hybrid vehicle control ECU (HT1B and HT2B).
- (12) Fuel cut in a collision
The system receives the collision signal from airbag sensor assembly in the vehicle has a collision and stops the fuel pump operation on the side of the hybrid vehicle control ECU.

Engine Control

2. Control System

* SFI system

The SFI system monitors the engine condition through the signals input from each sensor (Input signals from (1) to (11) etc.) to the hybrid vehicle control ECU. And the control signal is output to TERMINALS #10, #20, #30, #40, #50 and #60 of the hybrid vehicle control ECU to operate the injector (Inject the fuel). The SFI system controls the fuel injection operation by the hybrid vehicle control ECU in response to the driving conditions.

* ESA system

The ESA system monitors the engine condition through the signals input to the hybrid vehicle control ECU from each sensor (Input signals from (1) to (11) etc.). The best ignition timing is decided according to this data and the memorized data in the hybrid vehicle control ECU and the control signal is output to TERMINALS IGT1, IGT2, IGT3, IGT4, IGT5 and IGT6. This signal controls the igniter to provide the best ignition timing for the driving conditions.

3. Diagnosis System

With the diagnosis system, when there is a malfunction in the hybrid vehicle control ECU signal system, the malfunctioning system is recorded in the memory. The malfunctioning system can be found by reading the code displayed by the malfunction indicator lamp.

4. Fail-Safe System

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

○ : Parts Location

Code	See Page	Code	See Page	Code	See Page
A1	42	H15	E 44	K2	43
A6	42	H16	D 44	K3	43
A7	42	H17	F 44	L2	46
A10	A 44	H20	42	M1	43
A11	B 44	I8	43	O1	43
A17	44	I9	43	P5	46
A27	44	I10	43	S15	45
B9	A 44	I11	43	S28	A 45
B10	B 44	I12	43	S29	B 45
C3	42	I13	43	S30	A 45
C4	42	I15	44	S31	B 45
C7	42	J2	43	S34	43
C11	A 44	J6	45	S38	45
C12	B 44	J13	46	T13	43
D3	44	J16	45	T14	45
E2	42	J17	45	V4	43
F12	46	J26	45	V6	43
G5	44	J33	A 45	V7	43
H10	44	J34	B 45	V11	47
H12	A 44	J35	45	V16	47
H13	B 44	J36	A 45		
H14	C 44	J37	B 45		

○ : Relay Blocks

Code	See Page	Relay Blocks (Relay Block Location)
2	25	R/B No.2 (Engine Compartment Left)
3	26	R/B No.3 (Engine Compartment Left)
4	27	R/B No.4 (Engine Compartment Left)
7	24	Fusible Link Block (Engine Compartment Left)



: Junction Block and Wire Harness Connector

Code	See Page	Junction Block and Wire Harness (Connector Location)
1E	31	Cowl Wire and Instrument Panel J/B (Lower Finish Panel)
1G		
3B	34	Instrument Panel Wire and J/B No.3 (Behind the Instrument Panel Center)
3D		
3E		
3F		
3J	35	
3K		
4A	39	Cowl Wire and J/B No.4 (Right Side of Glove Box)
4C		
4D		
4E		
4F		
4H		
4L	38	
4M		
4N		



: Connector Joining Wire Harness and Wire Harness

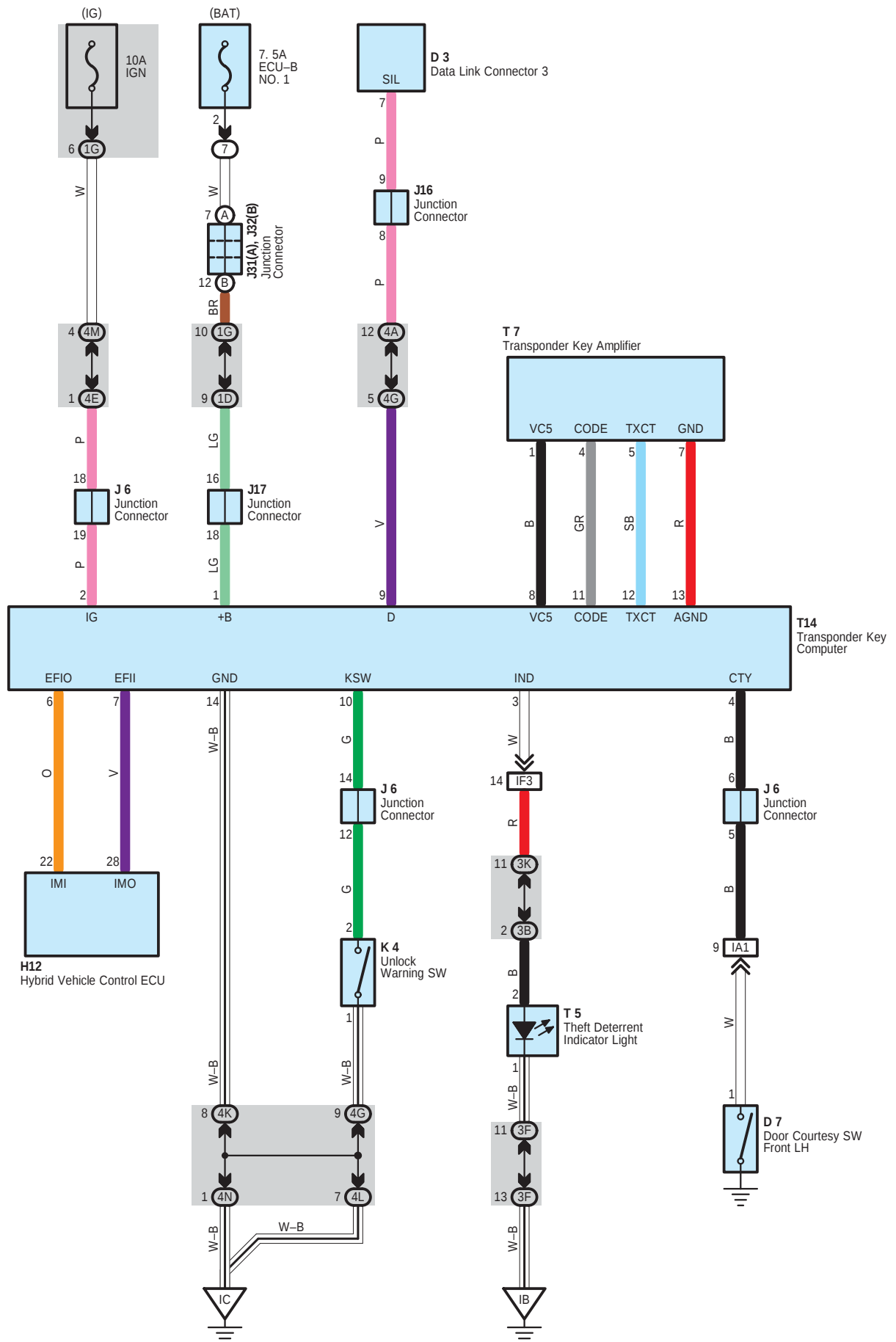
Code	See Page	Joining Wire Harness and Wire Harness (Connector Location)
EA1	52	Engine Wire and Sensor Wire (Right Side of Cylinder Head)
EB1	52	Engine Wire and Engine Room Main Wire (Front Side of Engine Room R/B No.4)
EB2		
IA2	54	Cowl Wire and Floor No.2 Wire (Left Kick Panel)
IB2	54	Front Door LH Wire and Cowl Wire (Left Kick Panel)
IC1	54	Engine Room Main Wire and Cowl Wire (Left Cowl Side Panel)
IC3		
IC4		
IC5		
IF3	54	Instrument Panel Wire and Cowl Wire (Right Side of Instrument Panel J/B)
IK2	55	Engine Room Main Wire and Cowl Wire (Right Cowl Side Panel)
IK3		
IL1	55	Instrument Panel Wire and Cowl Wire (Right Cowl Side Panel)
IL2		
IM1	55	Engine Wire and Cowl Wire (Right Kick Panel)
IN1	55	Front Door RH Wire and Cowl Wire (Right Kick Panel)
IS1	55	Floor No.2 Wire and Cowl Wire (Left Kick Panel)
IT1	55	Floor No.2 Wire and Cowl Wire (Under the Shift Lever)
BN1	56	Fuel Tank Wire and Floor No.2 Wire (Front Side of Rear Quarter Wheel House LH)
BO1	56	Floor No.2 Wire and Fuel Tank Wire (Front Side of Rear Quarter Wheel House LH)



: Ground Points

Code	See Page	Ground Points Location
EH	52	Under the Left Headlight
EJ	52	Right Side of the Cylinder Head
EN	52	Left Side of the Cylinder Head
IB	54	Right Instrument Panel Brace
IC	54	Right Cowl Side Panel
BC	56	Left Side of Rear Cross Member

Hybrid Vehicle Immobiliser System



 : Parts Location

Code	See Page	Code	See Page	Code	See Page
D3	44	J16	45	K4	45
D7	46	J17	45	T5	45
H12	44	J31	A 45	T7	45
J6	45	J32	B 45	T14	45

 : Relay Blocks

Code	See Page	Relay Blocks (Relay Block Location)
7	24	Fusible Link Block (Engine Compartment Left)

 : Junction Block and Wire Harness Connector

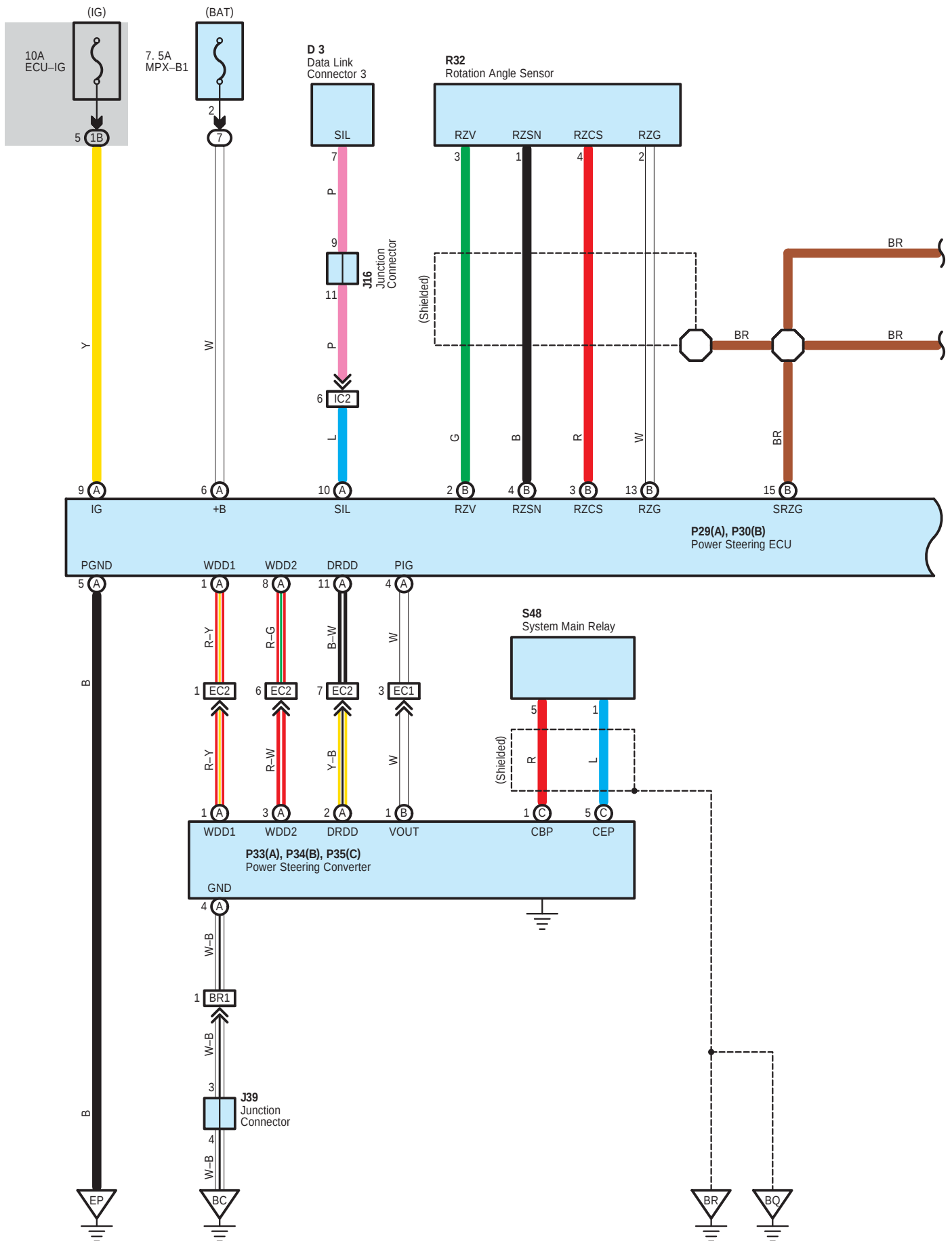
Code	See Page	Junction Block and Wire Harness (Connector Location)
1D	31	Cowl Wire and Instrument Panel J/B (Lower Finish Panel)
1G		
3B	34	Instrument Panel Wire and J/B No.3 (Behind the Instrument Panel Center)
3F		
3K	35	
4A	39	Cowl Wire and J/B No.4 (Right Side of Glove Box)
4E		
4G		
4K	38	
4L		
4M		
4N		

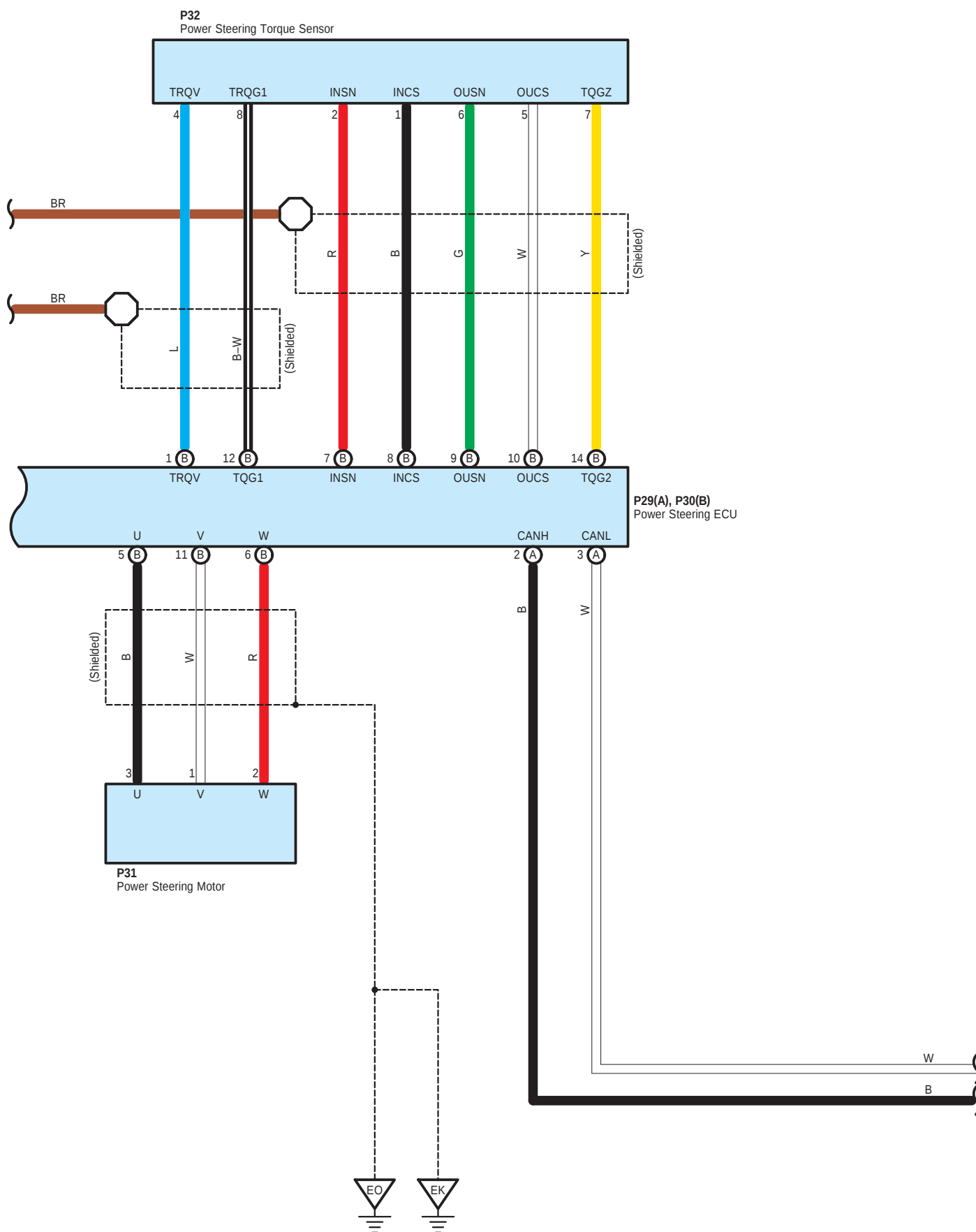
 : Connector Joining Wire Harness and Wire Harness

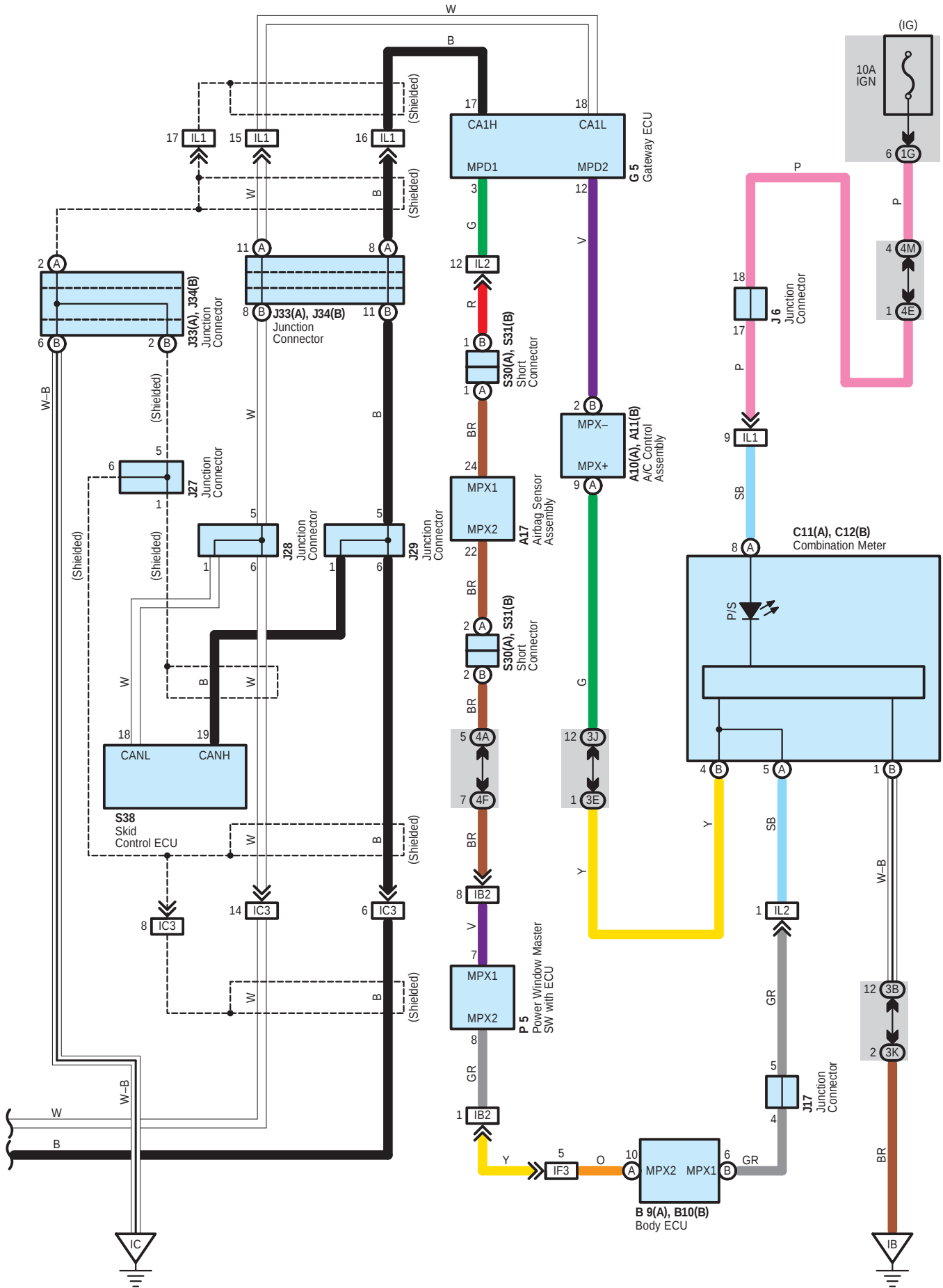
Code	See Page	Joining Wire Harness and Wire Harness (Connector Location)
IA1	54	Cowl Wire and Floor No.2 Wire (Left Kick Panel)
IF3	54	Instrument Panel Wire and Cowl Wire (Right Side of Instrument Panel J/B)

 : Ground Points

Code	See Page	Ground Points Location
IB	54	Right Instrument Panel Brace
IC	54	Right Cowl Side Panel







System Outline

This system aims to reduce steering force of the driver. Power steering ECU calculates the assist current, based on vehicle speed and other vehicle information besides output value from power steering torque sensor to control the power steering motor, resulting to assist the driver's steering force. In the system failure, output current to the power steering motor is shut off or is reduced gradually to make it manual steering condition or to limit the output current at certain level. At the same time, P/S warning in the combination meter is lit up to tell the abnormality to the driver.

○ : Parts Location

Code	See Page	Code	See Page	Code	See Page
A10	A 44	J17	45	P32	43
A11	B 44	J27	45	P33	A 50
A17	44	J28	45	P34	B 50
B9	A 44	J29	45	P35	C 50
B10	B 44	J33	A 45	R32	43
C11	A 44	J34	B 45	S30	A 45
C12	B 44	J39	46	S31	B 45
D3	44	P5	46	S38	45
G5	44	P29	A 43	S48	50
J6	45	P30	B 43		
J16	45	P31	43		

○ : Relay Blocks

Code	See Page	Relay Blocks (Relay Block Location)
7	24	Fusible Link Block (Engine Compartment Left)

○ : Junction Block and Wire Harness Connector

Code	See Page	Junction Block and Wire Harness (Connector Location)
1B	31	Engine Room Main Wire and Instrument Panel J/B (Lower Finish Panel)
1G	31	Cowl Wire and Instrument Panel J/B (Lower Finish Panel)
3B	34	Instrument Panel Wire and J/B No.3 (Behind the Instrument Panel Center)
3E		
3J	35	
3K		
4A	39	Cowl Wire and J/B No.4 (Right Side of Glove Box)
4E		
4F		
4M	38	

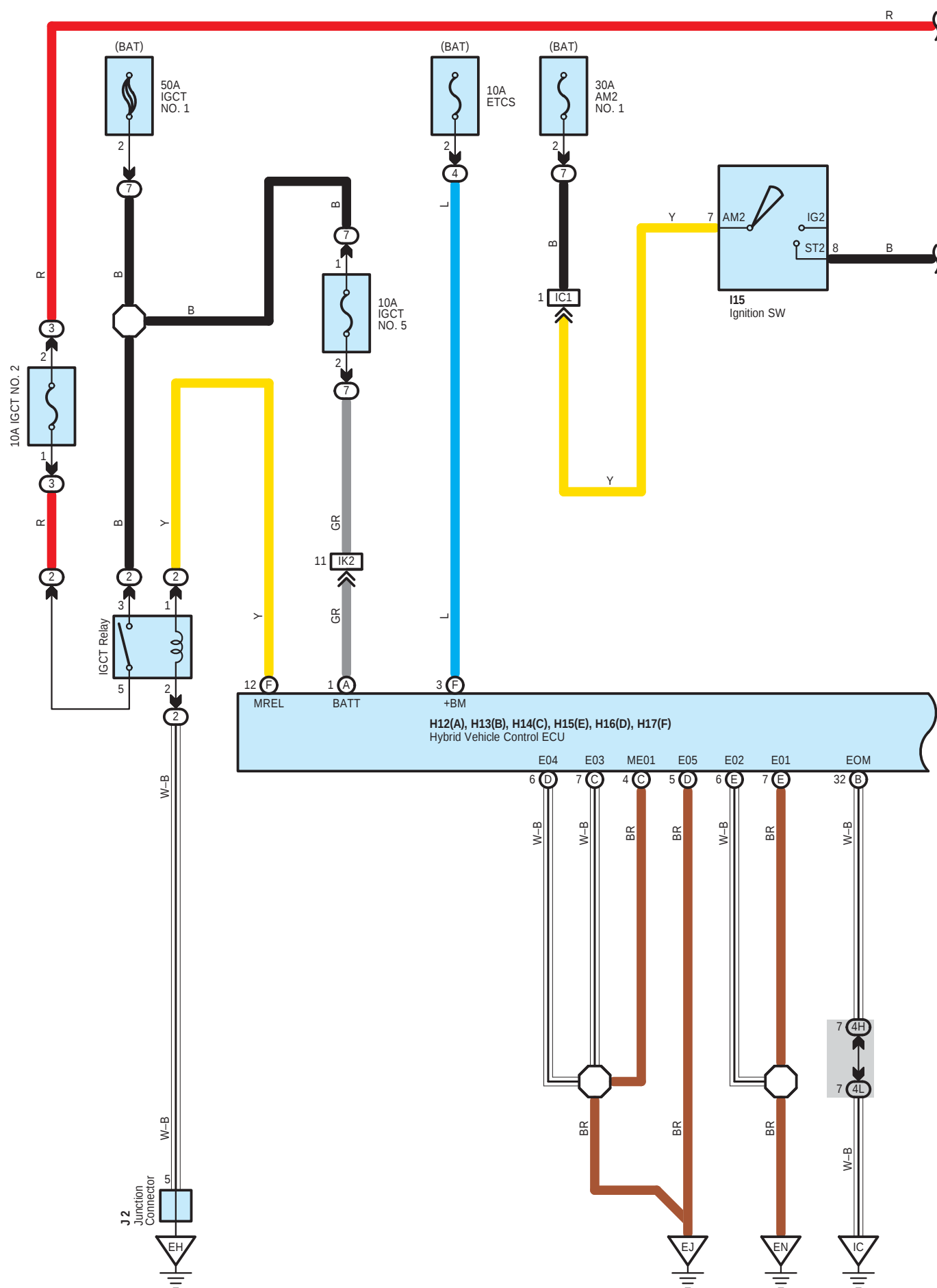
□ : Connector Joining Wire Harness and Wire Harness

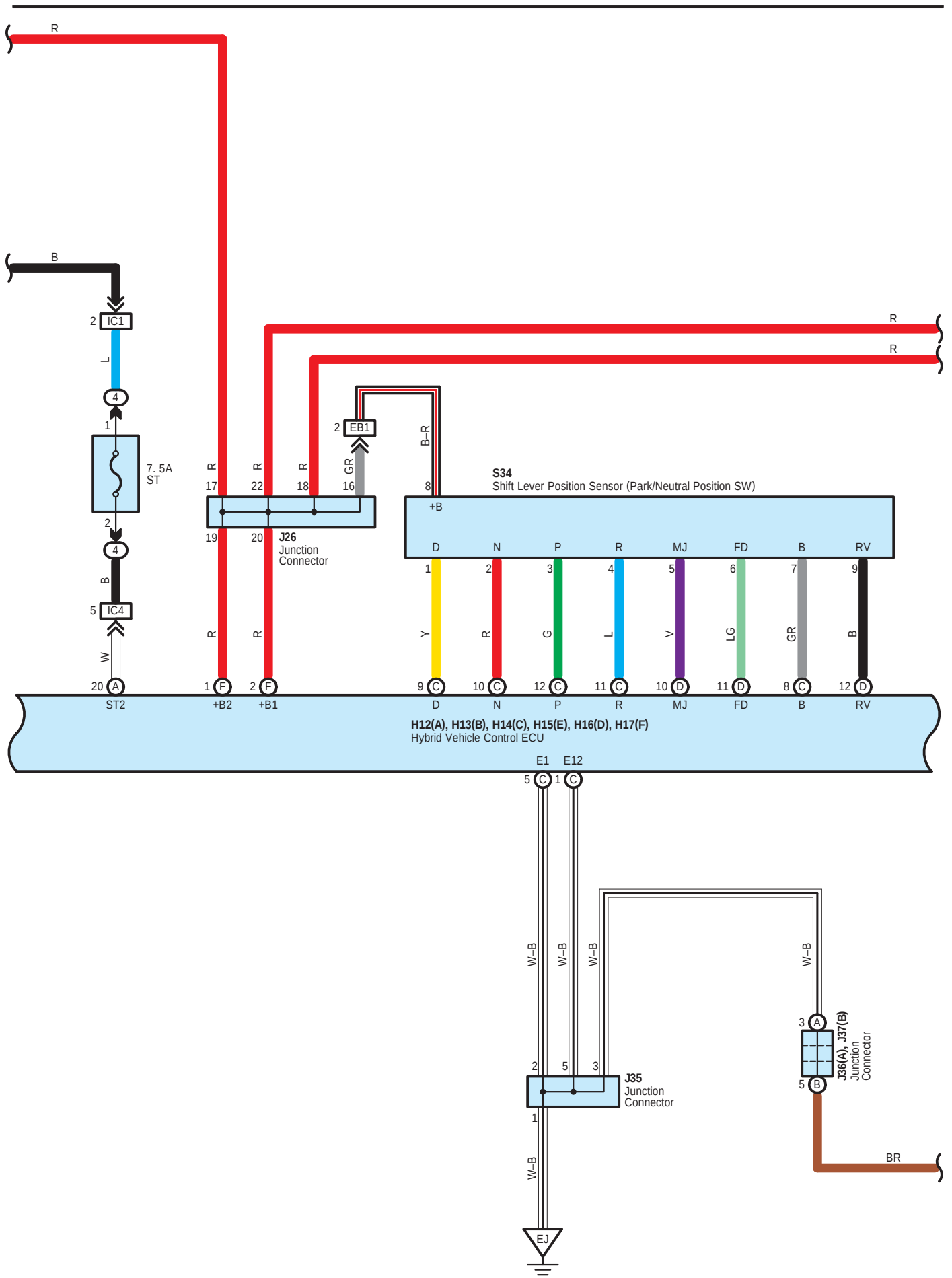
Code	See Page	Joining Wire Harness and Wire Harness (Connector Location)
EC1	52	Engine Room Main Wire and Frame No.3 Wire (Left Side of the Suspension Tower)
EC2		
IB2	54	Front Door LH Wire and Cowl Wire (Left Kick Panel)
IC2	54	Engine Room Main Wire and Cowl Wire (Left Cowl Side Panel)
IC3		
IF3	54	Instrument Panel Wire and Cowl Wire (Right Side of Instrument Panel J/B)
IL1	55	Instrument Panel Wire and Cowl Wire (Right Cowl Side Panel)
IL2		
BR1	60	Frame No.3 Wire and Floor No.2 Wire (Near the Power Steering Converter)



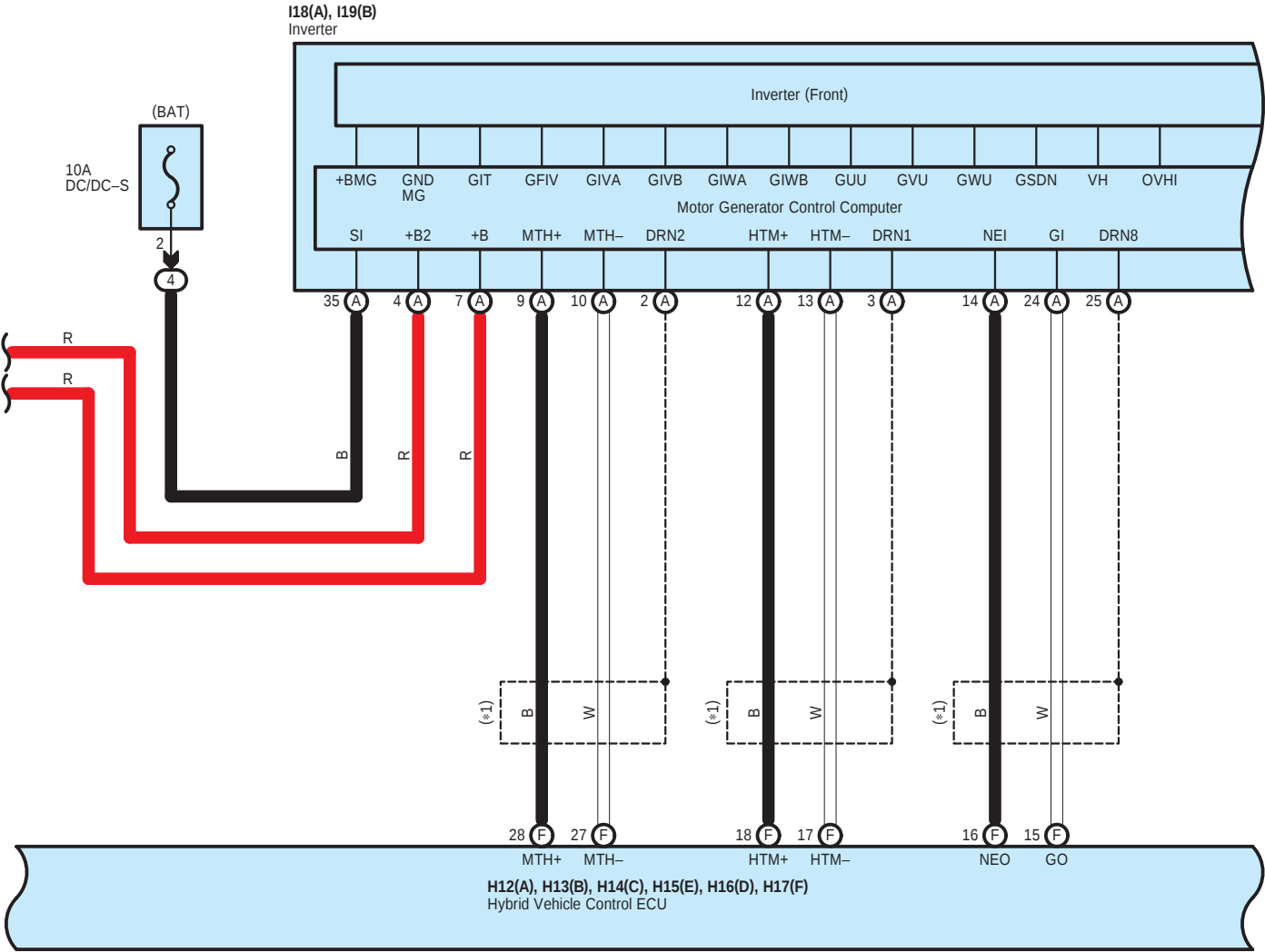
: Ground Points

Code	See Page	Ground Points Location
EK	52	Near the Power Steering Motor
EO	52	Left Dash Panel
EP	52	Near the Inverter
IB	54	Right Instrument Panel Brace
IC	54	Right Cowl Side Panel
BC	56	Left Side of Rear Cross Member
BQ	60	Near the Power Steering Converter
BR	60	Near the HV Battery

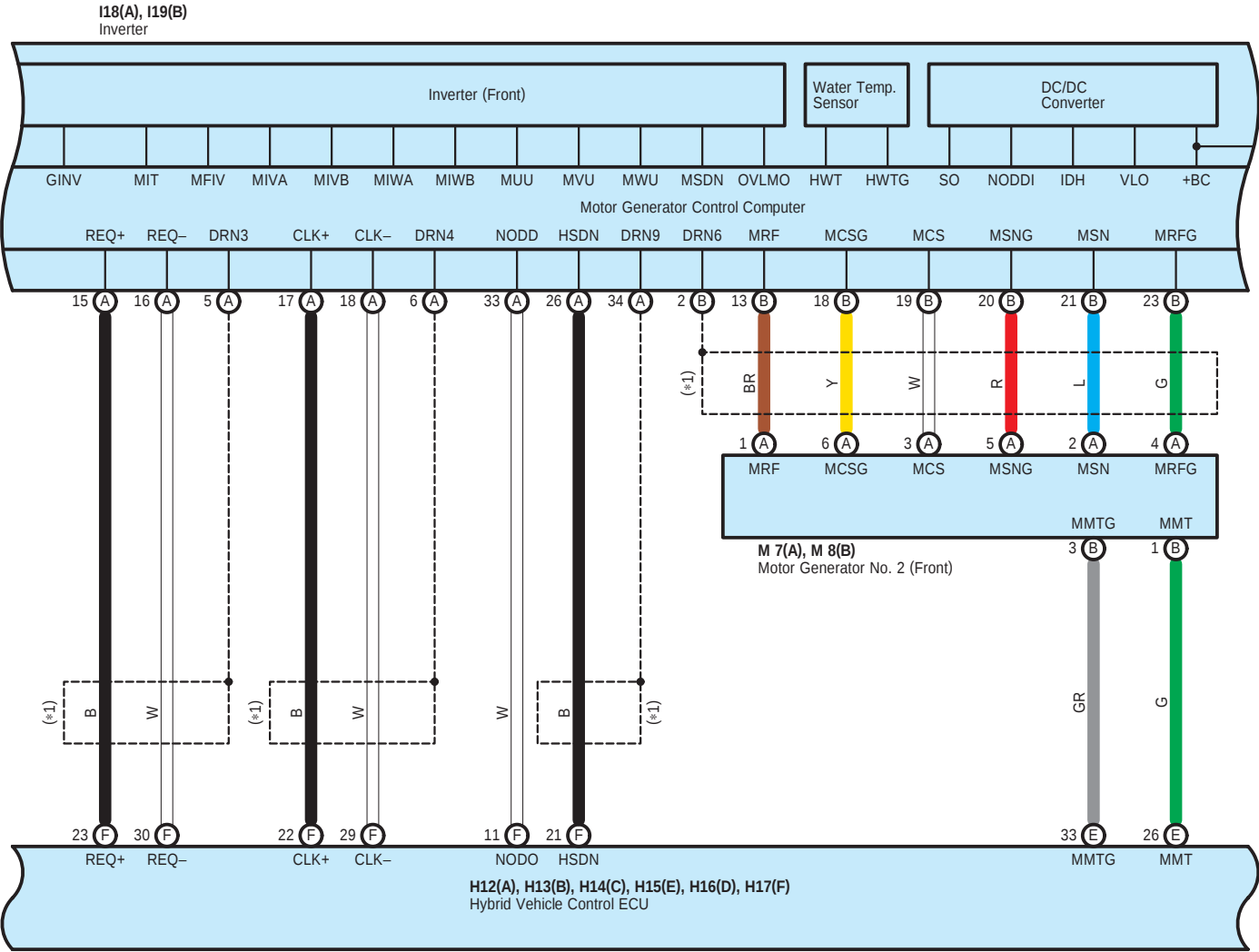




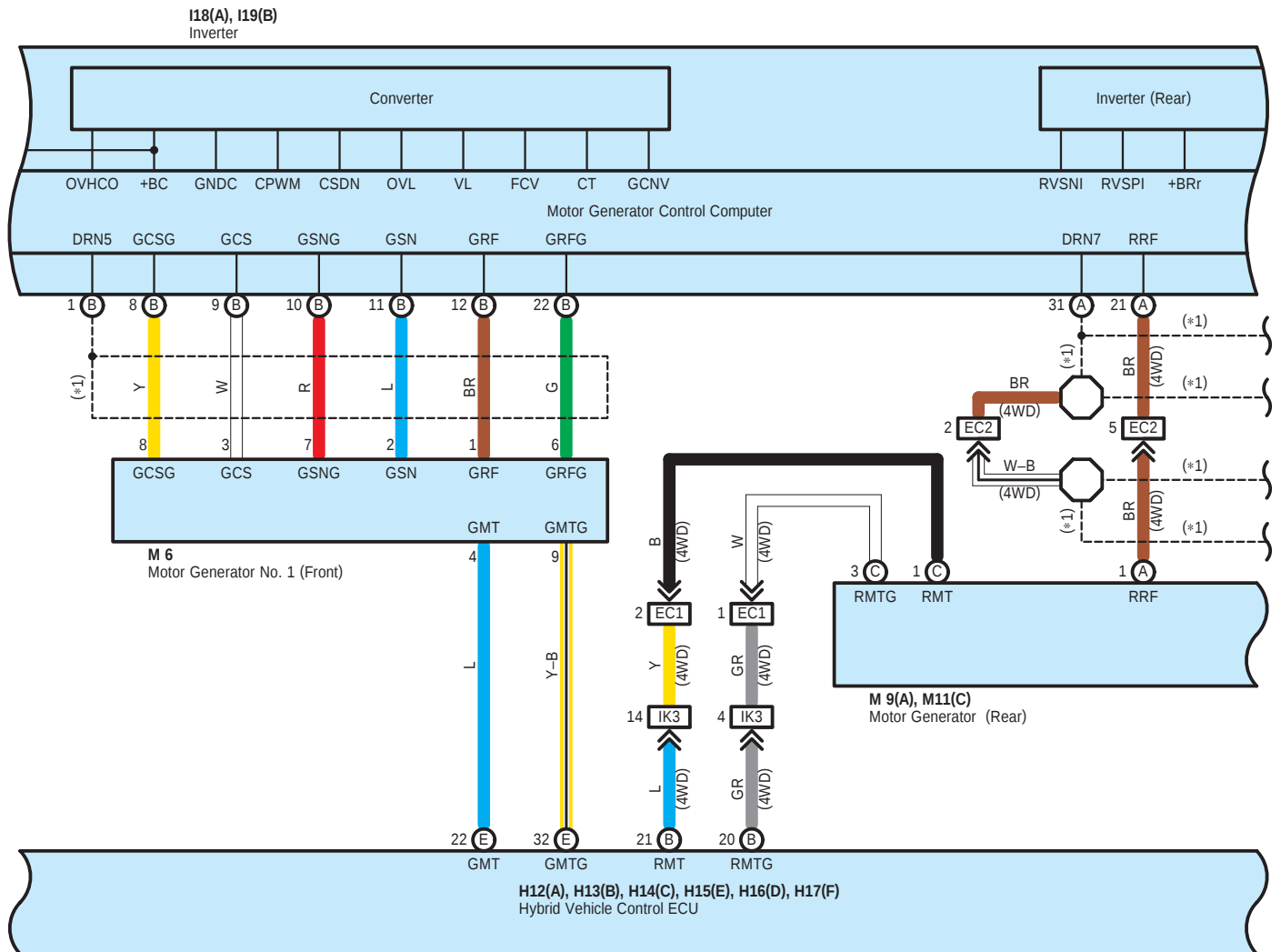
Shift Control System



* 1 : Shielded

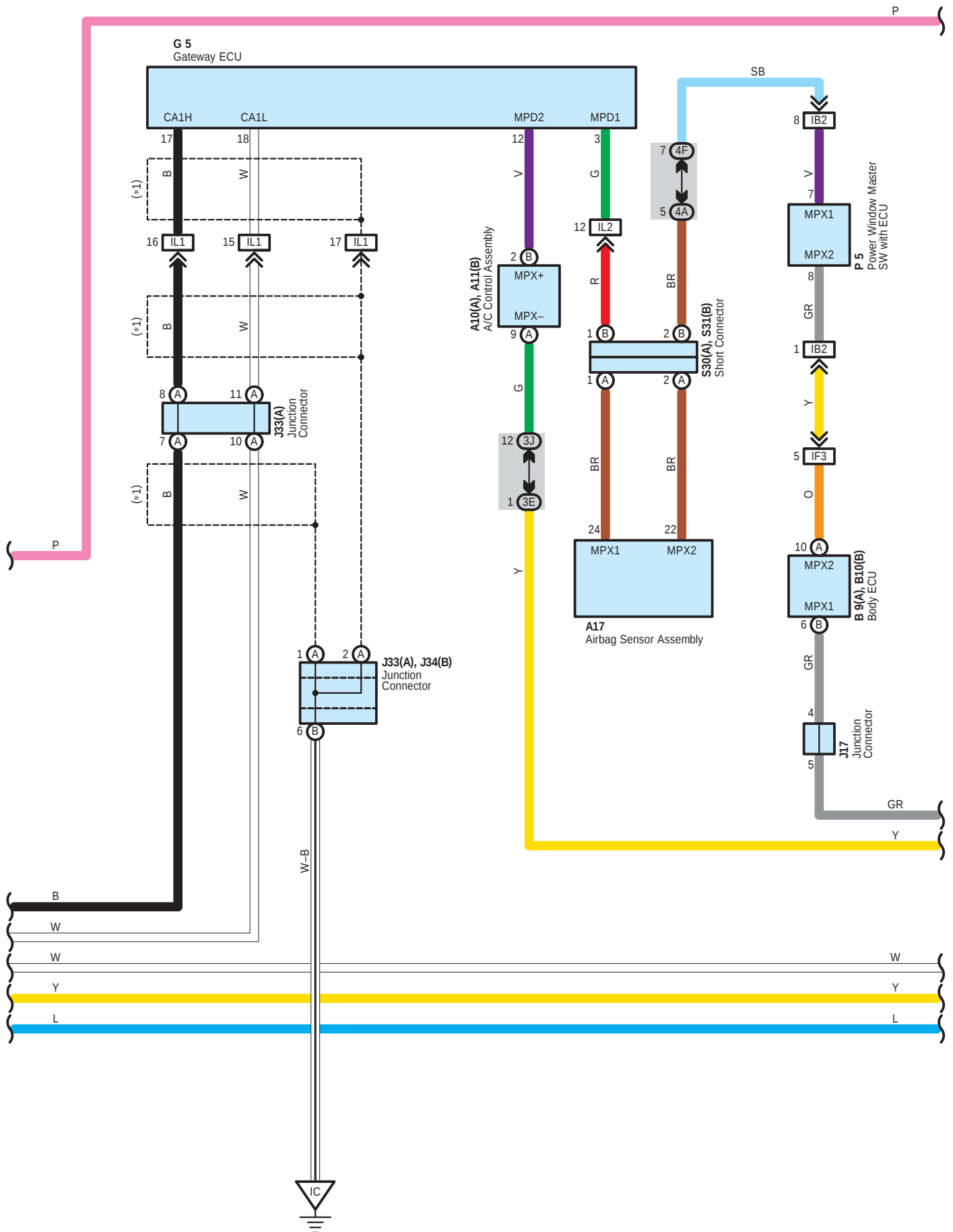


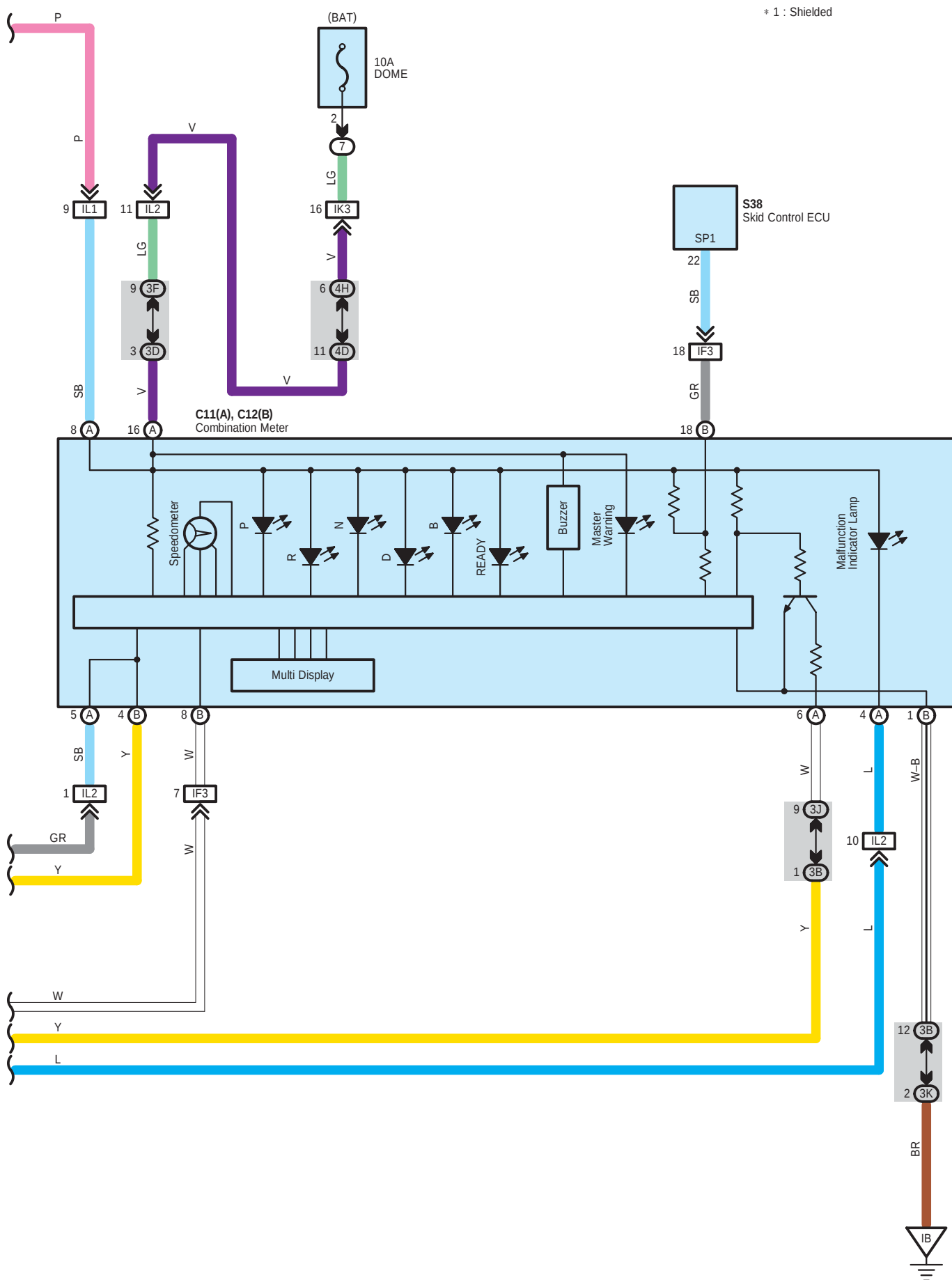
Shift Control System





Shift Control System





Shift Control System

System Outline

Shift Control Operation

Shift lever position sensor (Park/neutral position SW) is provided in the transaxle to detect the shift position and send a corresponding signal to the hybrid vehicle control ECU. Upon receiving this signal, the hybrid vehicle control ECU optimally combines the operation of the engine, motor generator no.1 (Front), motor generator no.2 (Front) and motor generator (Rear), in order to produce the respective shift positions ("R", "N", "D", and "B").

○ : Parts Location

Code		See Page	Code		See Page	Code		See Page
A10	A	44	I15		44	J35		45
A11	B	44	I18	A	43	J36	A	45
A17		44	I19	B	43	J37	B	45
B9	A	44	I20	C	43	M6		43
B10	B	44	I21	D	43	M7	A	43
C11	A	44	I22	E	43	M8	B	43
C12	B	44	I23	F	43	M9	A	50
D3		44	I24	G	43	M11	C	50
G5		44	J2		43	P5		46
H12	A	44	J6		45	S30	A	45
H13	B	44	J16		45	S31	B	45
H14	C	44	J17		45	S34		43
H15	E	44	J26		45	S38		45
H16	D	44	J33	A	45			
H17	F	44	J34	B	45			

○ : Relay Blocks

Code	See Page	Relay Blocks (Relay Block Location)
2	25	R/B No.2 (Engine Compartment Left)
3	26	R/B No.3 (Engine Compartment Left)
4	27	R/B No.4 (Engine Compartment Left)
7	24	Fusible Link Block (Engine Compartment Left)

○ : Junction Block and Wire Harness Connector

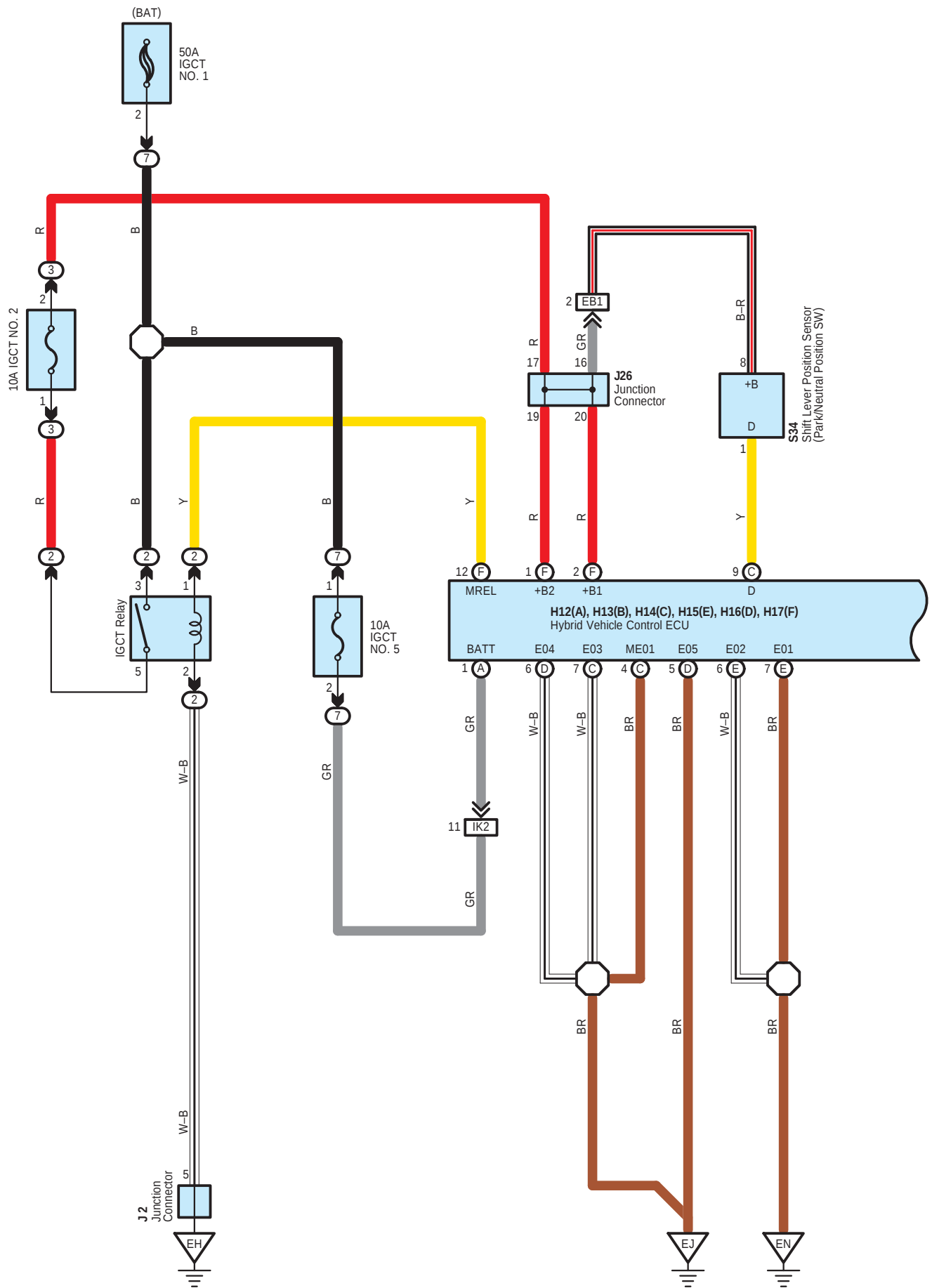
Code	See Page	Junction Block and Wire Harness (Connector Location)	
1E	31	Cowl Wire and Instrument Panel J/B (Lower Finish Panel)	
1G			
3B	34	Instrument Panel Wire and J/B No.3 (Behind the Instrument Panel Center)	
3D			
3E			
3F			
3J	35		
3K			
4A	39		Cowl Wire and J/B No.4 (Right Side of Glove Box)
4C			
4D			
4E			
4F			
4H			
4L	38		
4M			
4N			

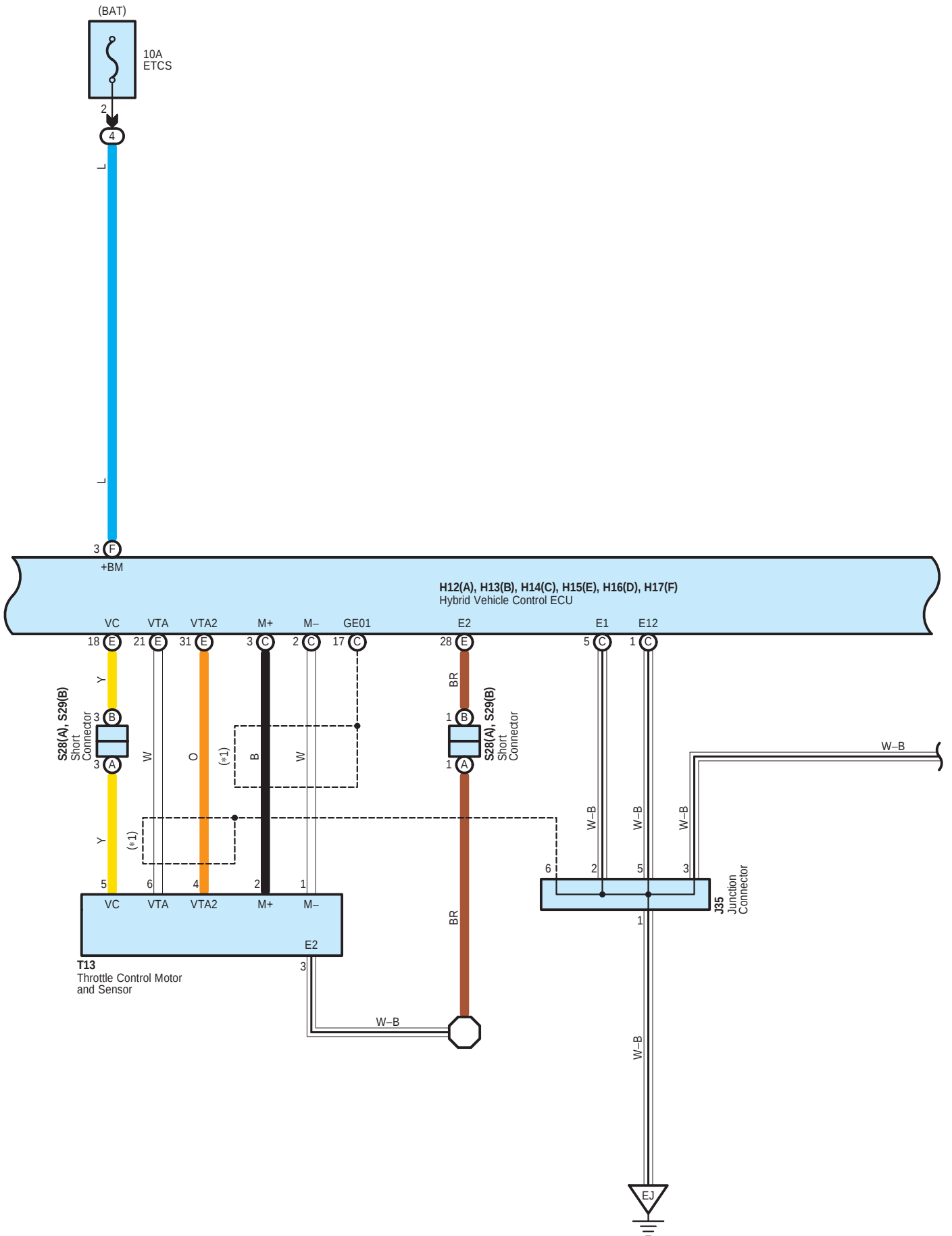
 : Connector Joining Wire Harness and Wire Harness

Code	See Page	Joining Wire Harness and Wire Harness (Connector Location)
EB1	52	Engine Wire and Engine Room Main Wire (Front Side of Engine Room R/B No.4)
EC1	52	Engine Room Main Wire and Frame No.3 Wire (Left Side of the Suspension Tower)
EC2		
IB2	54	Front Door LH Wire and Cowl Wire (Left Kick Panel)
IC1	54	Engine Room Main Wire and Cowl Wire (Left Cowl Side Panel)
IC4		
IF3	54	Instrument Panel Wire and Cowl Wire (Right Side of Instrument Panel J/B)
IK2	55	Engine Room Main Wire and Cowl Wire (Right Cowl Side Panel)
IK3		
IL1	55	Instrument Panel Wire and Cowl Wire (Right Cowl Side Panel)
IL2		

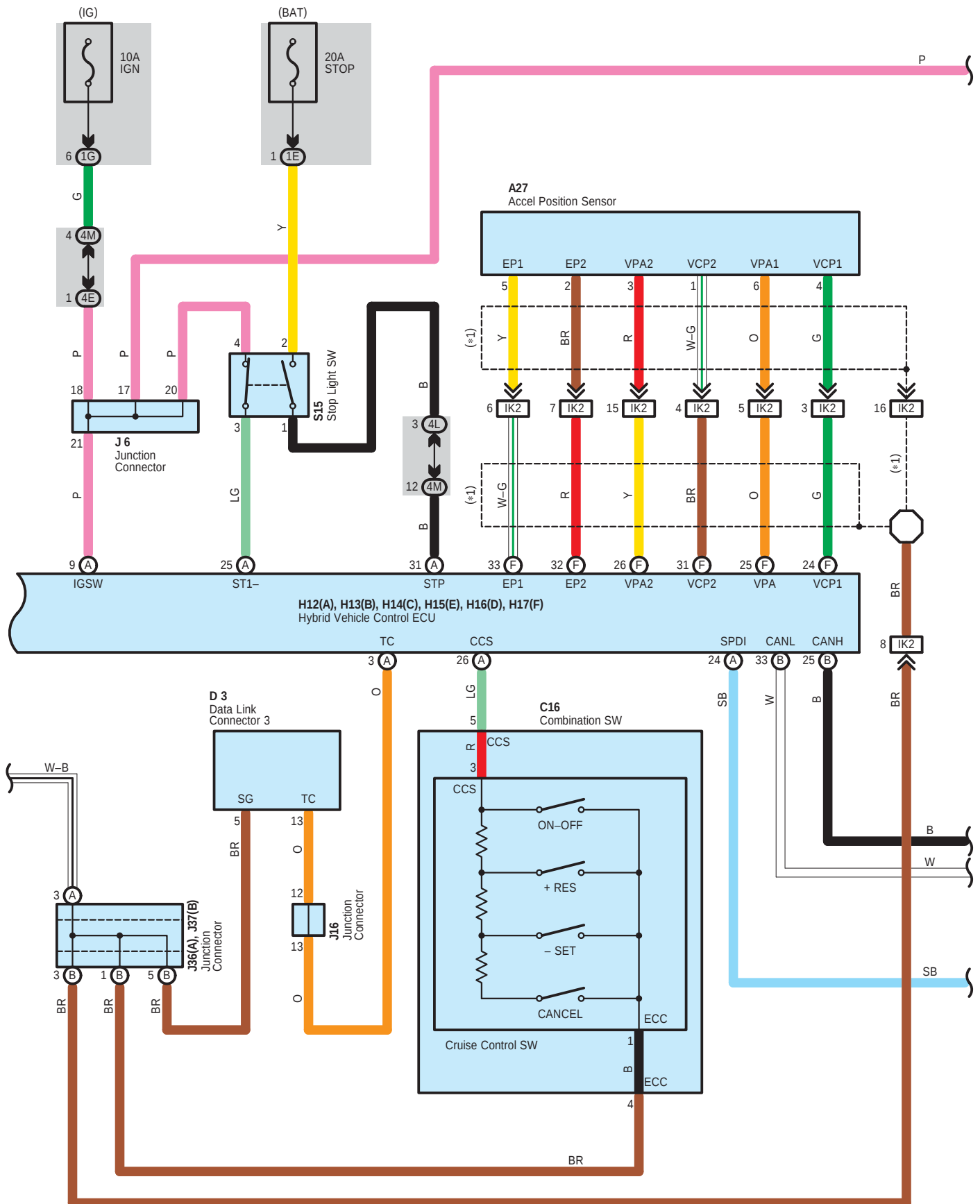
 : Ground Points

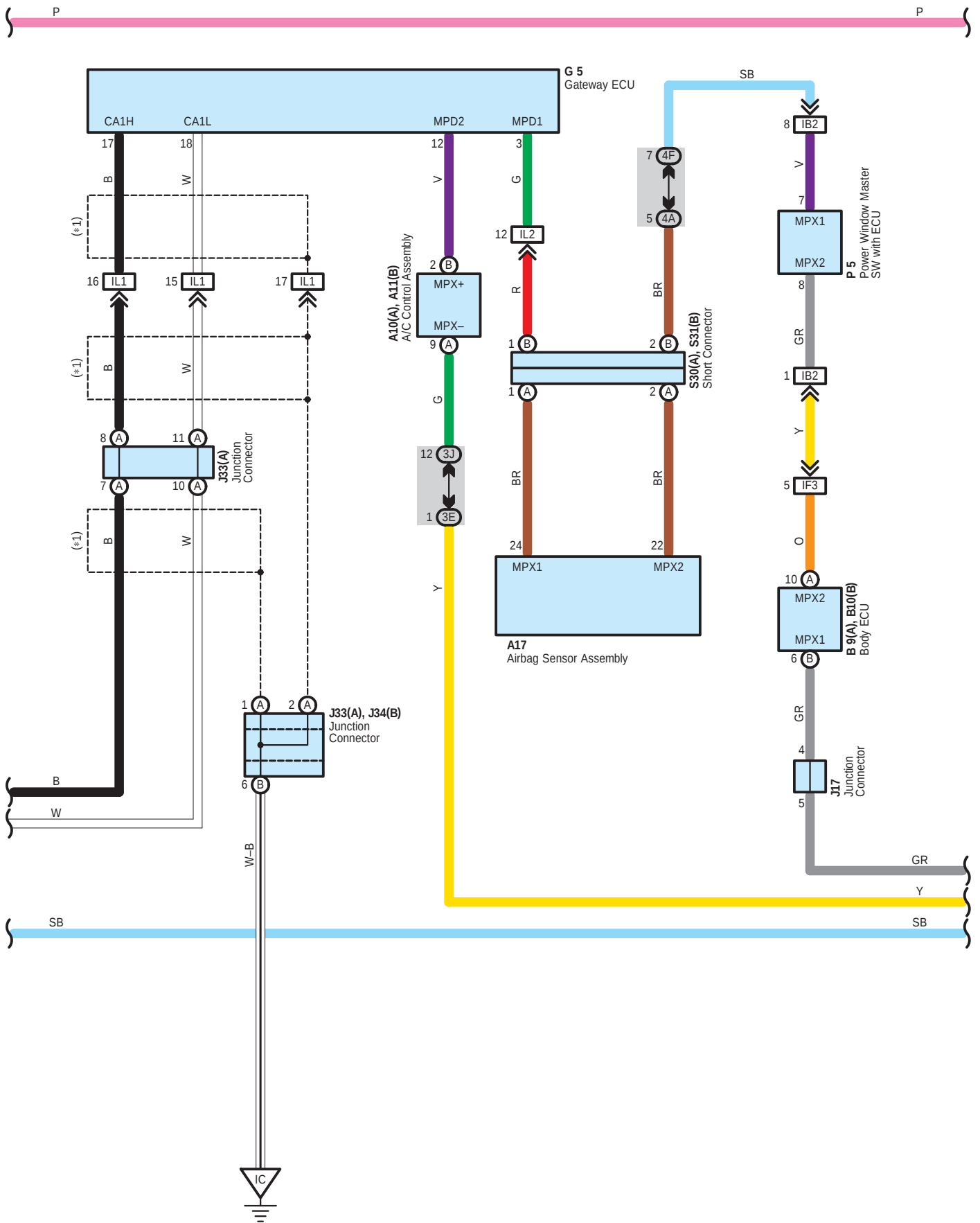
Code	See Page	Ground Points Location
EH	52	Under the Left Headlight
EJ	52	Right Side of the Cylinder Head
EN	52	Left Side of the Cylinder Head
IB	54	Right Instrument Panel Brace
IC	54	Right Cowl Side Panel



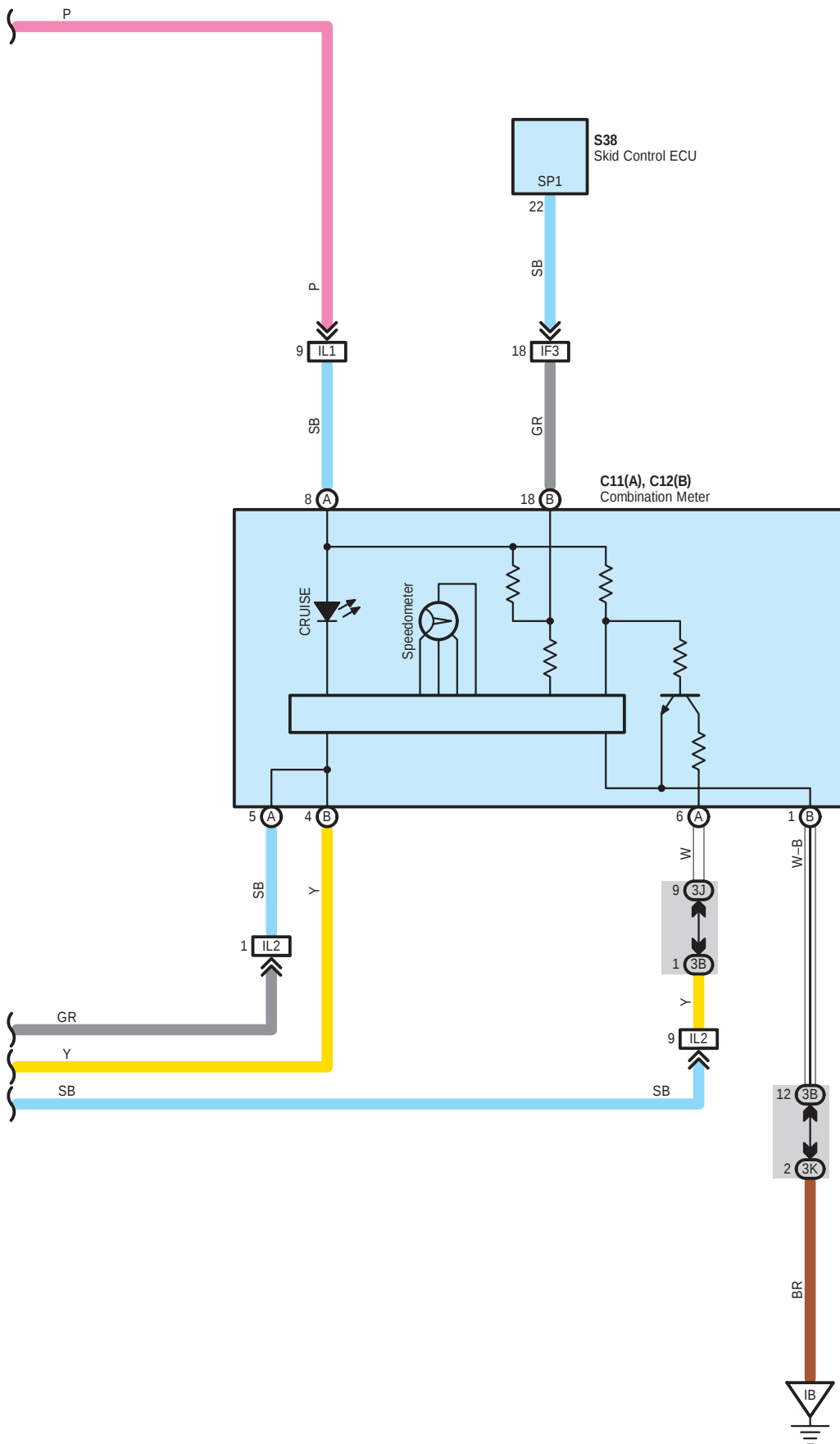


Cruise Control





Cruise Control



System Outline

The cruise control system is a constant vehicle speed controller in which control of the switch on the instrument panel makes it possible to automatically adjust the opening of the engine throttle valve without depressing of the accel pedal.

1. Set Operation

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

2. Set Speed Control

When the – SET SW is operated with the ON–OFF SW turned on during travelling, the constant vehicle speed is controlled.

3. Coast Control

When the – SET SW is kept turned on during cruise control travelling, the hybrid vehicle control ECU controls the throttle valve to decelerate the vehicle. Every time the – SET SW is turned on instantaneously, the vehicle speed is decelerated approximately 1.6 km/h.

4. Accel Control

When the + RES SW is kept turned on during cruise control travelling, the hybrid vehicle control ECU controls the throttle valve to accelerate the vehicle. Every time the + RES SW is turned on instantaneously, the vehicle speed is accelerated approximately 1.6 km/h.

5. Resume Control

When the vehicle speed is within the low speed limit (Approximately 40 km/h, 25 mph) if the cruise control is cancelled, use of the + RES SW accelerates the vehicle to the speed level used before canceling the cruise control.

6. Manual Cancel Mechanism

If any of the following signals is input during cruise control travelling, the cruise control is cancelled.

- * The stop light SW is turned on.
- * The CANCEL SW is turned on.
- * The ON–OFF SW is turned off.

7. Auto Cancel Function

If any of the following conditions is encountered, the cruise control is automatically cancelled.

- * The stop light SW wiring is faulty or short–circuited.
- * The vehicle speed signal is faulty.
- * The electronically controlled throttle malfunctions.

○ : Parts Location

Code	See Page	Code	See Page	Code	See Page
A10	A 44	H13	B 44	J35	45
A11	B 44	H14	C 44	J36	A 45
A17	44	H15	E 44	J37	B 45
A27	44	H16	D 44	P5	46
B9	A 44	H17	F 44	S15	45
B10	B 44	J2	43	S28	A 45
C11	A 44	J6	45	S29	B 45
C12	B 44	J16	45	S30	A 45
C16	44	J17	45	S31	B 45
D3	44	J26	45	S34	43
G5	44	J33	A 45	S38	45
H12	A 44	J34	B 45	T13	43

○ : Relay Blocks

Code	See Page	Relay Blocks (Relay Block Location)
2	25	R/B No.2 (Engine Compartment Left)
3	26	R/B No.3 (Engine Compartment Left)
4	27	R/B No.4 (Engine Compartment Left)
7	24	Fusible Link Block (Engine Compartment Left)

Cruise Control



: Junction Block and Wire Harness Connector

Code	See Page	Junction Block and Wire Harness (Connector Location)
1E	31	Cowl Wire and Instrument Panel J/B (Lower Finish Panel)
1G		
3B	34	Instrument Panel Wire and J/B No.3 (Behind the Instrument Panel Center)
3E		
3J	35	
3K		
4A	39	Cowl Wire and J/B No.4 (Right Side of Glove Box)
4E		
4F		
4L	38	
4M		



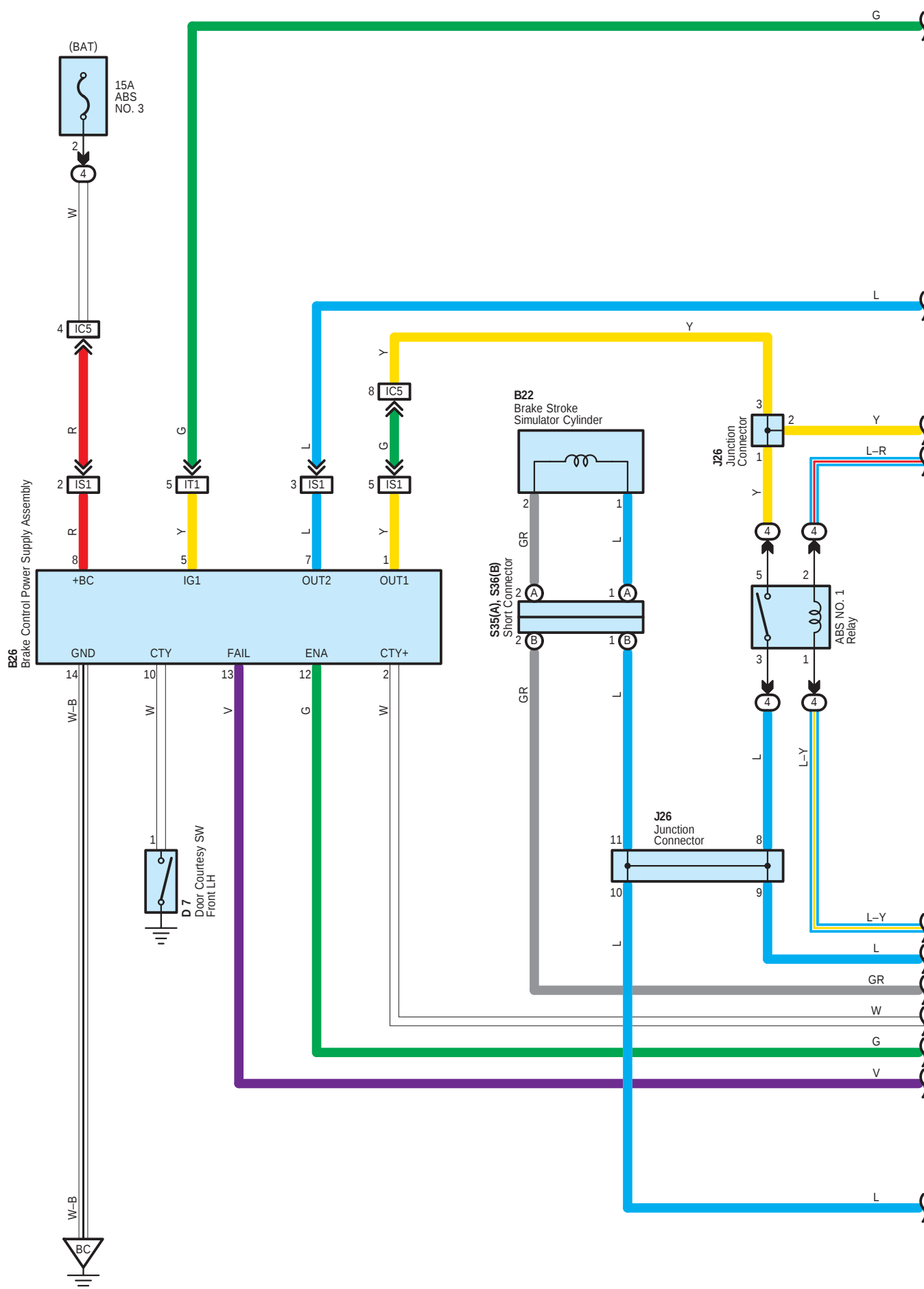
: Connector Joining Wire Harness and Wire Harness

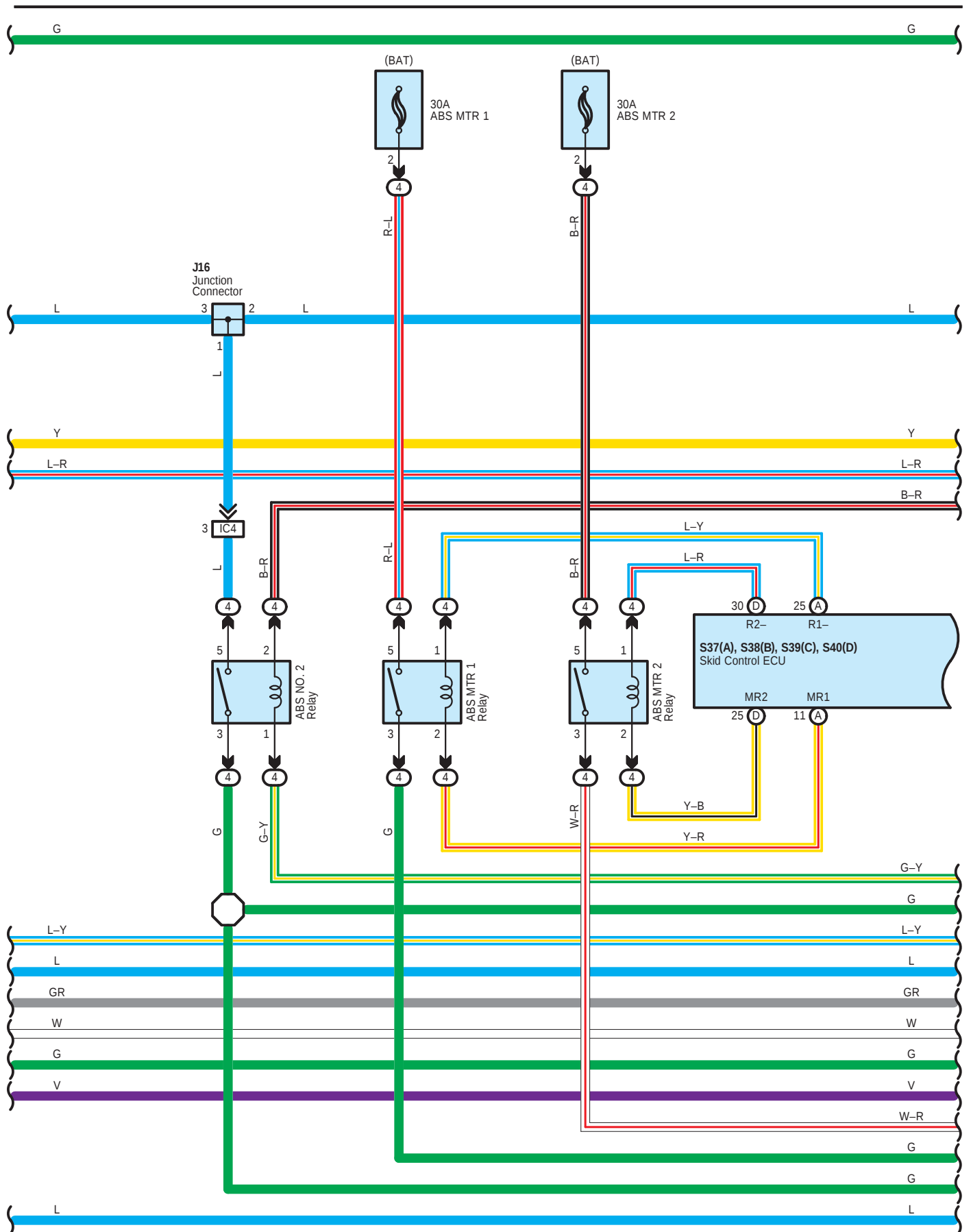
Code	See Page	Joining Wire Harness and Wire Harness (Connector Location)
EB1	52	Engine Wire and Engine Room Main Wire (Front Side of Engine Room R/B No.4)
IB2	54	Front Door LH Wire and Cowl Wire (Left Kick Panel)
IF3	54	Instrument Panel Wire and Cowl Wire (Right Side of Instrument Panel J/B)
IK2	55	Engine Room Main Wire and Cowl Wire (Right Cowl Side Panel)
IL1	55	Instrument Panel Wire and Cowl Wire (Right Cowl Side Panel)
IL2		



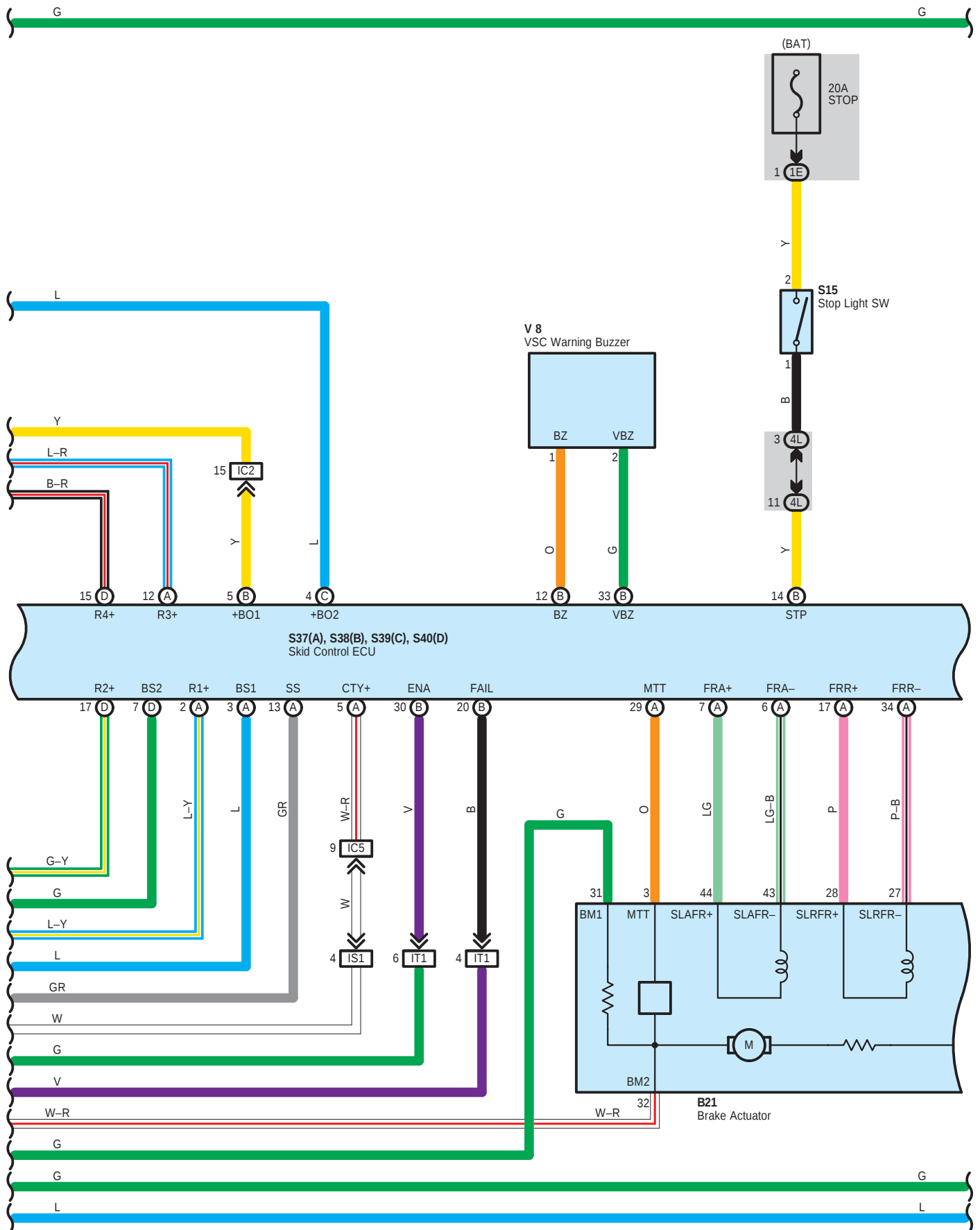
: Ground Points

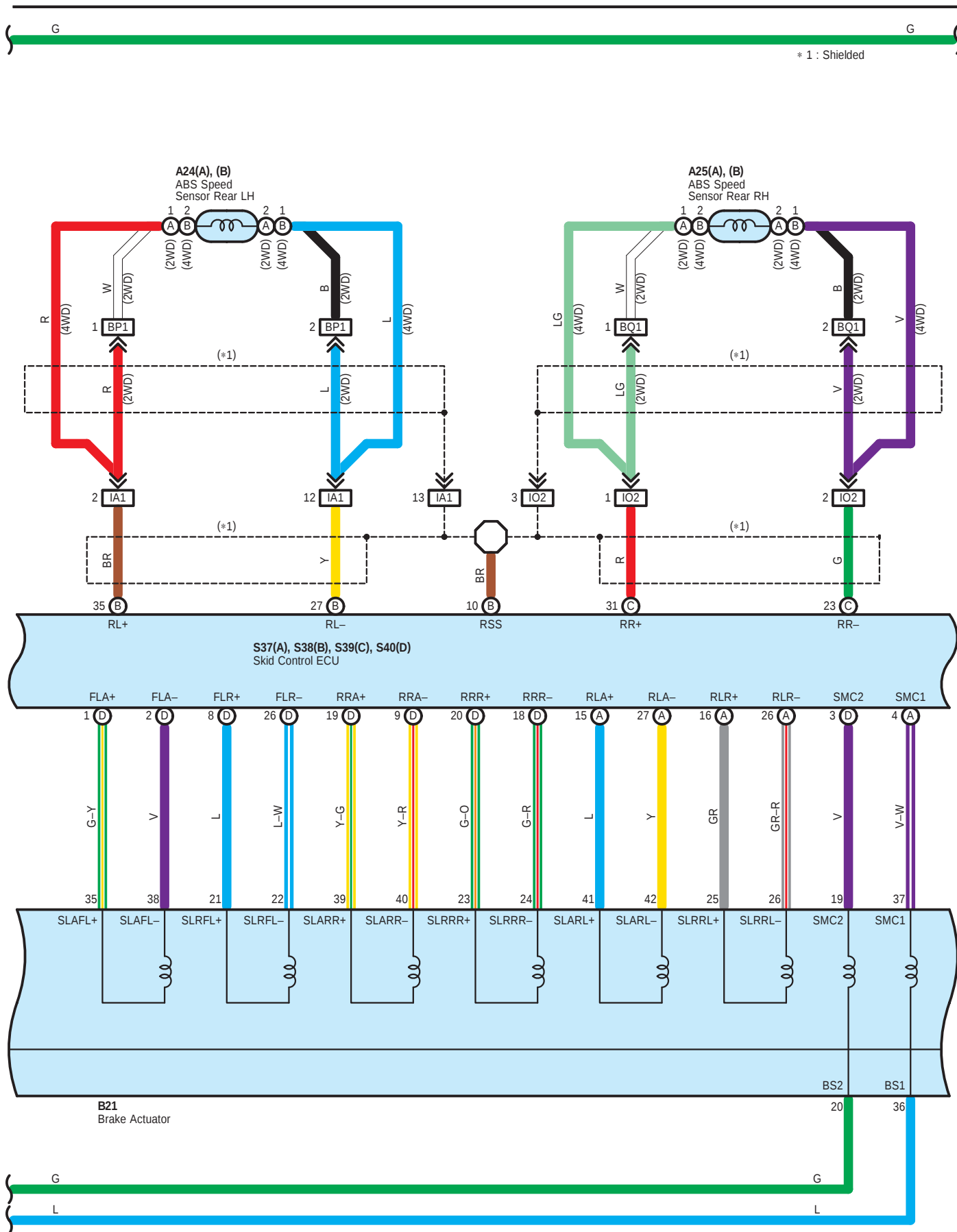
Code	See Page	Ground Points Location
EH	52	Under the Left Headlight
EJ	52	Right Side of the Cylinder Head
EN	52	Left Side of the Cylinder Head
IB	54	Right Instrument Panel Brace
IC	54	Right Cowl Side Panel



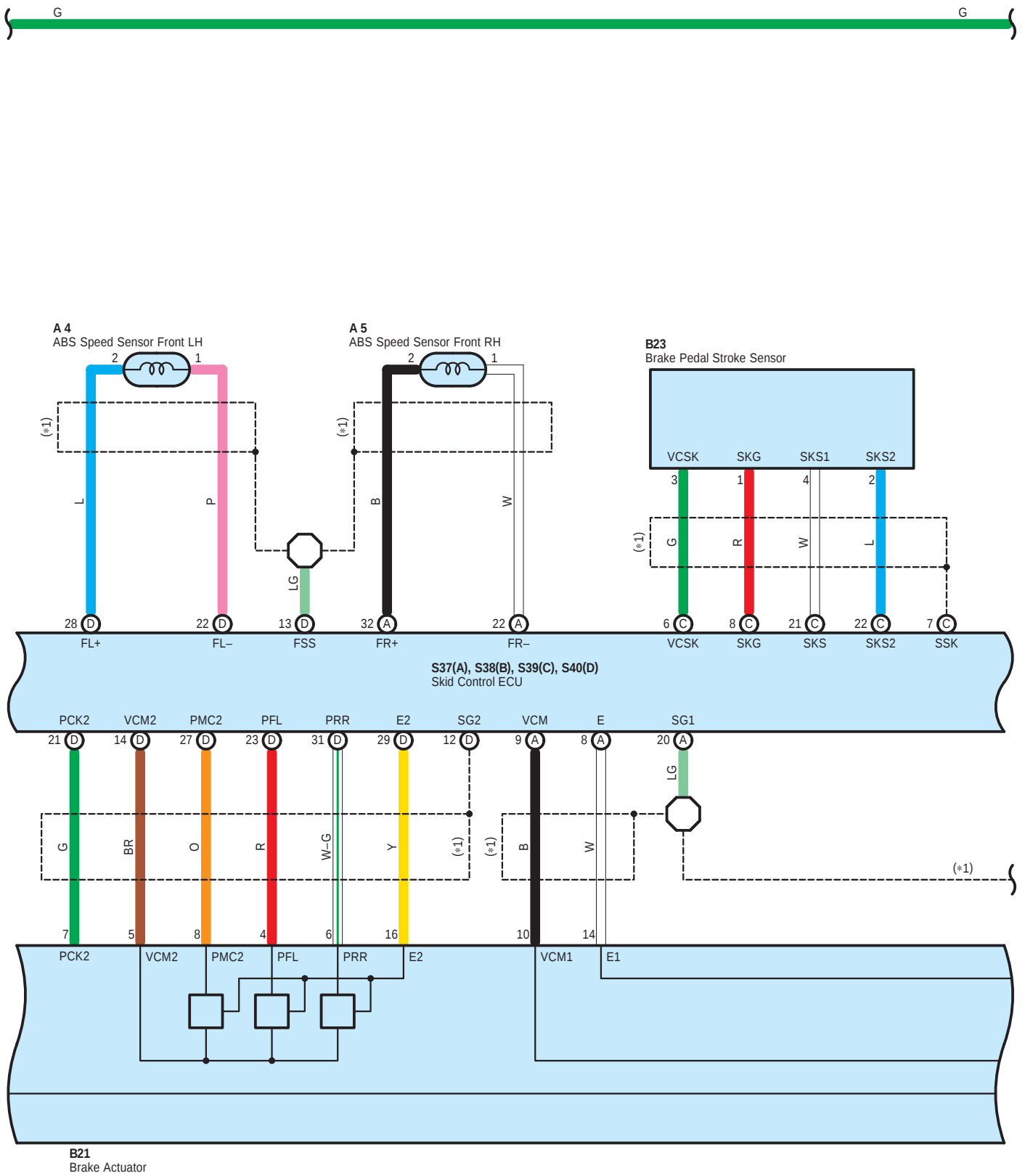


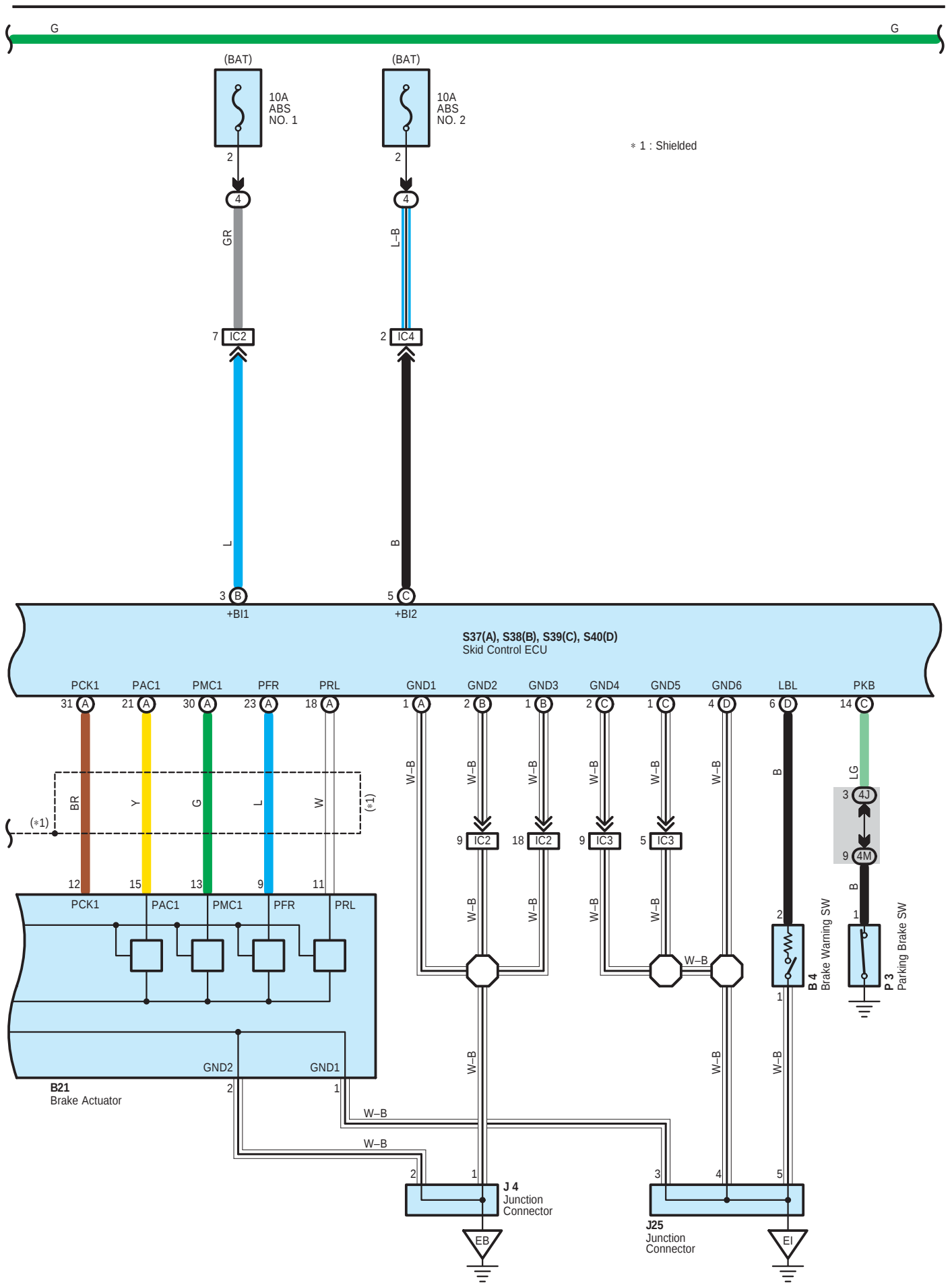
Brake Control System



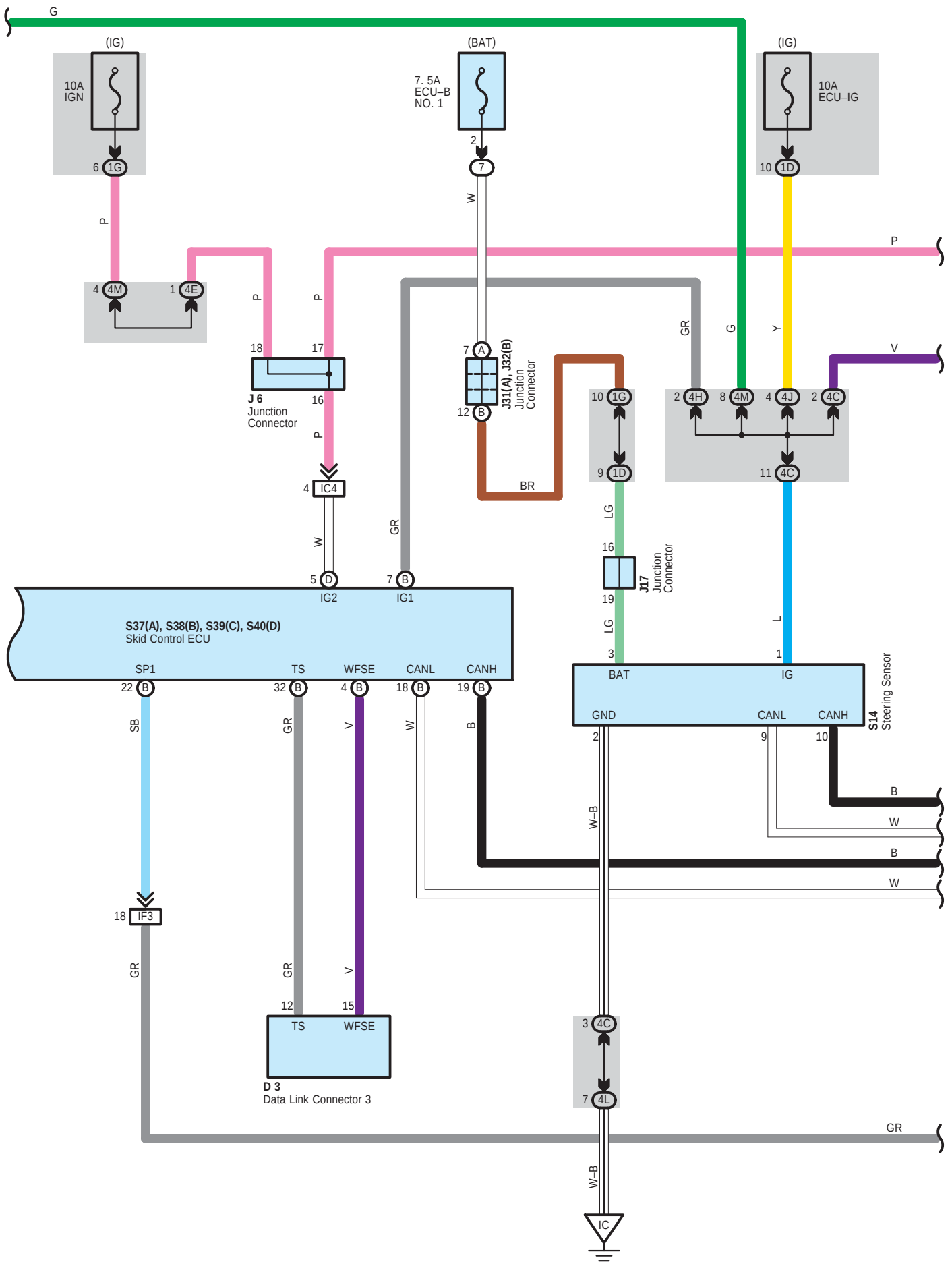


Brake Control System

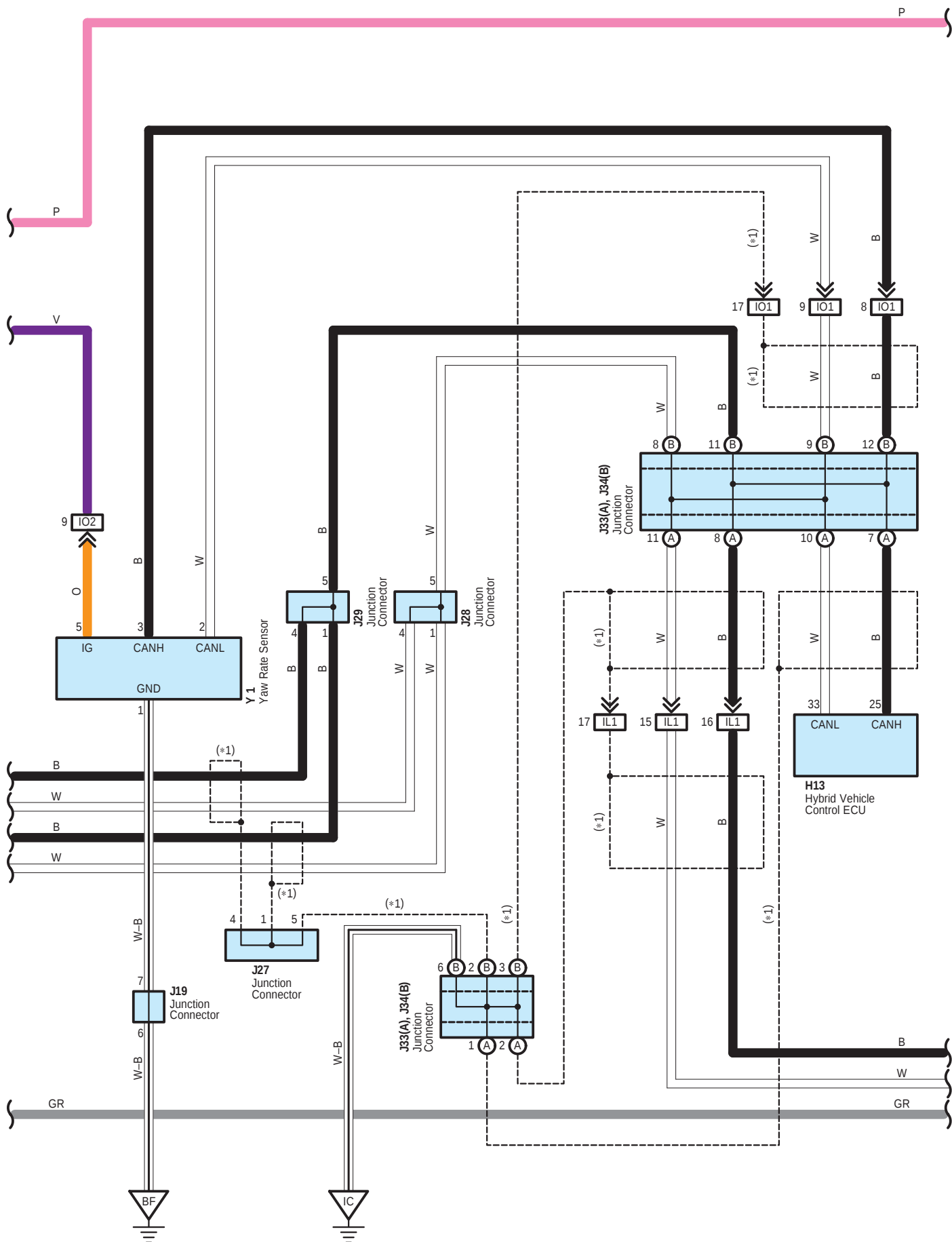


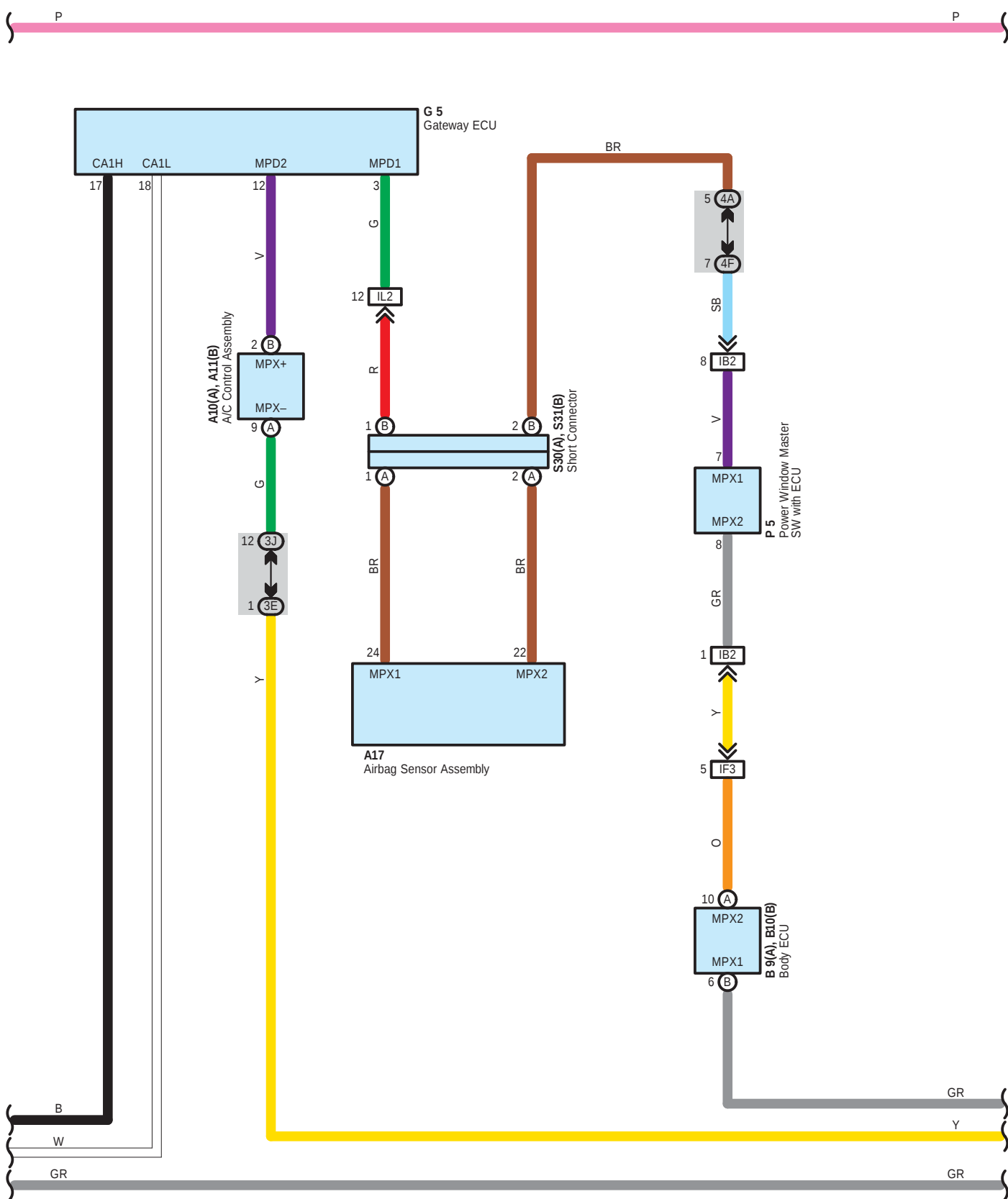


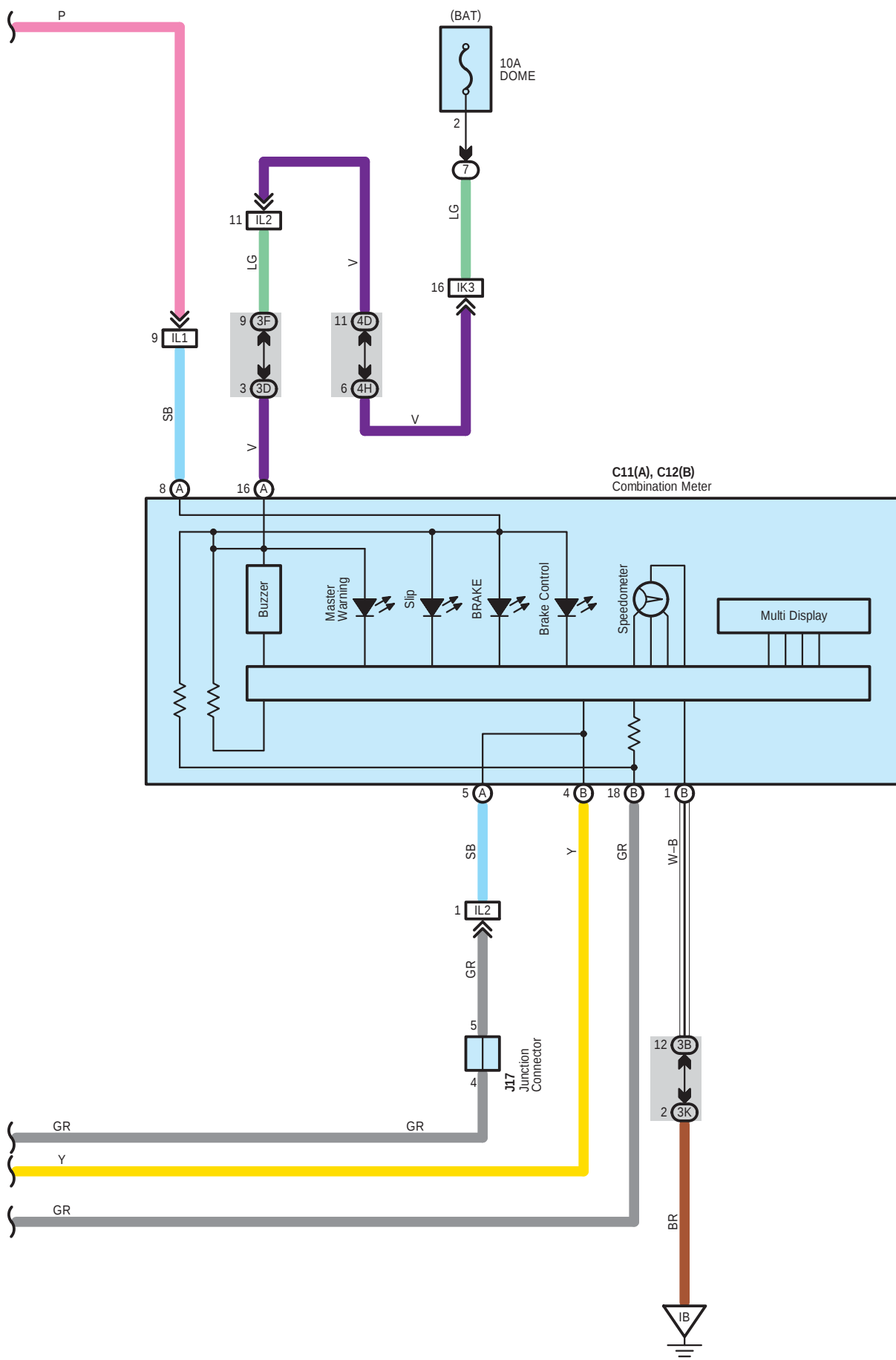
Brake Control System



* 1 : Shielded







System Outline

1. ABS Operation

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

2. Traction Control Operation

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

3. Electronic Brake-Force Distribution

Skid control ECU distributes appropriate brake-force to front and rear wheels (Control of brake-force distribution to front and rear wheels) corresponding to the vehicle driving conditions. It also makes effective use of rear wheel brake-force to match loading condition and decelerating of the vehicle, resulting to reduce depressing of brake pedal and to ensure effective braking. In braking during making a turn, the ECU controls appropriate brake-force distribution to right and left wheels (Control of brake-force distribution to right and left wheels) to ensure stability and braking of the vehicle.

4. Brake Assist System

Skid control ECU recognizes emergency braking from detecting applying speed of brake pedal and brake travel, and controls braking effectiveness to supply strong brake-force for the emergency braking.

5. VSC Operation

Unexpected road conditions, emergency situation, and any other external factors may cause large under- or over-steering of the vehicle. If they occur, the VSC system automatically controls the driving 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 driving power and activates the front wheel brakes and rear inner side wheel brake to reduce the under-steering.

If there is malfunction in the VSC system, the VSC indicator lights up to warn the driver.

6. Mutual System Control

Due to cooperative control with hybrid vehicle control ECU, skid control ECU controls hydraulic brake to collect much electrical energy by making the most use of regenerative brake.

Skid control ECU also improves stability of the vehicle, performing cooperative control with power steering ECU to give steering torque assistance, corresponding to driving conditions.

7. Electric Source Backup Function

Electric charge is stored in brake control power supply assembly. If voltage of vehicle electricity is declined, electric charge is released to cover electric supply to the system.

8. Fail Safe Function

Skid control ECU monitors the system component parts electrically. In case there is abnormality in ECU, sensor signal and actuator, normal parts except parts with abnormality continue braking operation.

Even in case braking is shut off due to malfunction of oil pressure source, braking is secured as master cylinder pressure made by manpower works on wheel cylinder.

In case only regenerative brake is not effective due to abnormality in communication with hybrid vehicle control ECU, control will be changed to have oil pressure brake generate all the braking force

 : Parts Location

Code		See Page		Code		See Page		Code		See Page	
A4		42		C12	B	44		J33	A	45	
A5		42		D3		44		J34	B	45	
A10	A	44		D7		46		P3		45	
A11	B	44		G5		44		P5		46	
A17		44		H13		44		S14		45	
A24	A	46		J4		43		S15		45	
	B	46		J6		45		S30	A	45	
A25	A	46		J16		45		S31	B	45	
	B	46		J17		45		S35	A	43	
B4		42		J19		46		S36	B	43	
B9	A	44		J25		43		S37	A	45	
B10	B	44		J26		45		S38	B	45	
B21		42		J27		45		S39	C	45	
B22		42		J28		45		S40	D	45	
B23		44		J29		45		V8		45	
B26		46		J31	A	45		Y1		47	
C11	A	44		J32	B	45					

 : Relay Blocks

Code	See Page	Relay Blocks (Relay Block Location)
4	27	R/B No.4 (Engine Compartment Left)
7	24	Fusible Link Block (Engine Compartment Left)

 : Junction Block and Wire Harness Connector

Code	See Page	Junction Block and Wire Harness (Connector Location)
1D	31	Cowl Wire and Instrument Panel J/B (Lower Finish Panel)
1E		
1G		
3B	34	Instrument Panel Wire and J/B No.3 (Behind the Instrument Panel Center)
3D		
3E		
3F		
3J	35	
3K		
4A	39	Cowl Wire and J/B No.4 (Right Side of Glove Box)
4C		
4D		
4E		
4F		
4H		
4J	38	
4L		
4M		

Brake Control System

: Connector Joining Wire Harness and Wire Harness

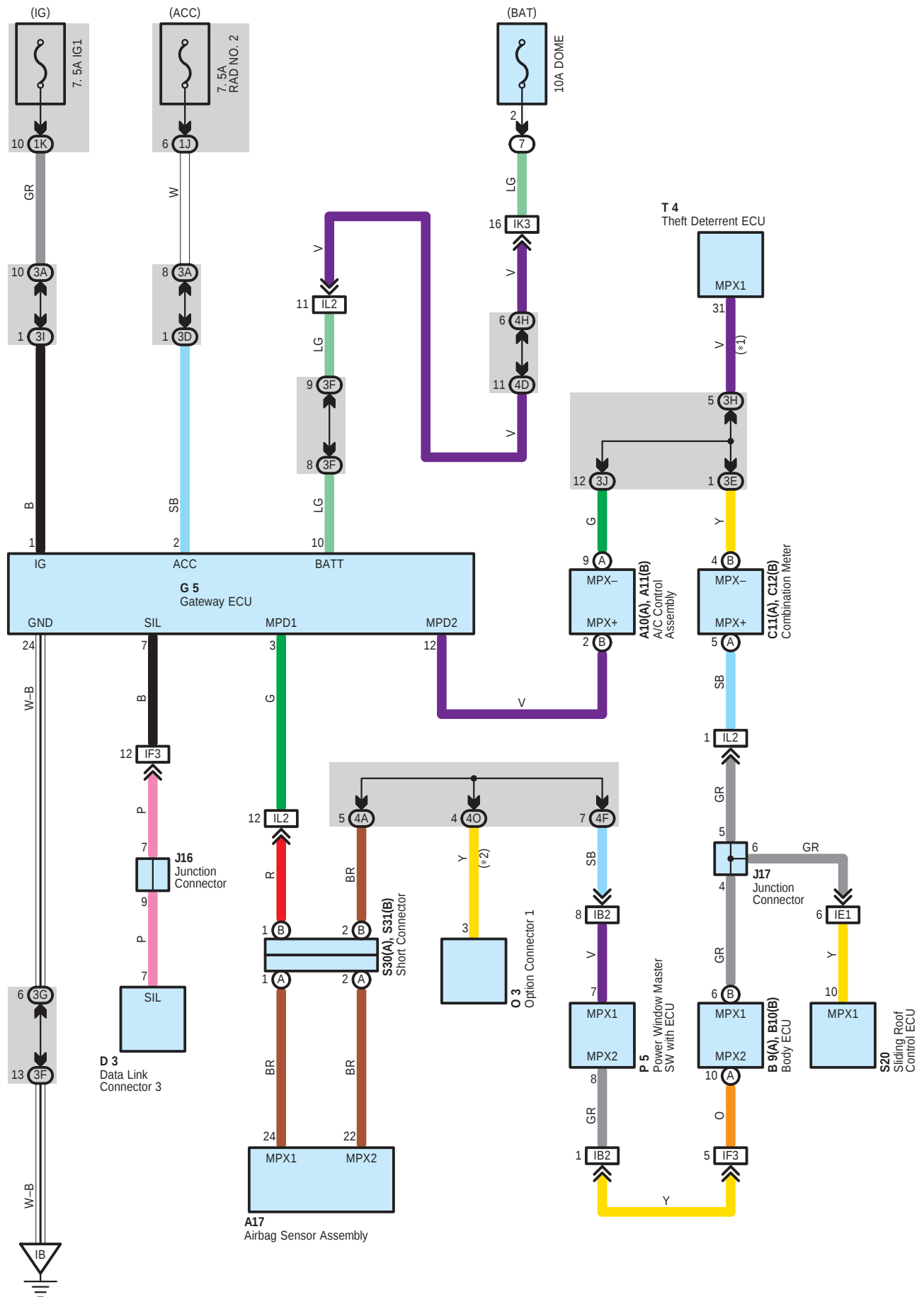
Code	See Page	Joining Wire Harness and Wire Harness (Connector Location)
IA1	54	Cowl Wire and Floor No.2 Wire (Left Kick Panel)
IB2	54	Front Door LH Wire and Cowl Wire (Left Kick Panel)
IC2	54	Engine Room Main Wire and Cowl Wire (Left Cowl Side Panel)
IC3		
IC4		
IC5		
IF3	54	Instrument Panel Wire and Cowl Wire (Right Side of Instrument Panel J/B)
IK3	55	Engine Room Main Wire and Cowl Wire (Right Cowl Side Panel)
IL1	55	Instrument Panel Wire and Cowl Wire (Right Cowl Side Panel)
IL2		
IO1	55	Cowl Wire and Floor Wire (Right Kick Panel)
IO2		
IS1	55	Floor No.2 Wire and Cowl Wire (Left Kick Panel)
IT1	55	Floor No.2 Wire and Cowl Wire (Under the Shift Lever)
BP1	56	Skid Control LH Wire and Floor No.2 Wire (Left Rear Quarter Panel)
BQ1	56	Skid Control RH Wire and Floor Wire (Right Rear Quarter Panel)

: Ground Points

Code	See Page	Ground Points Location
EB	52	Right Front Fender Apron
EI		
IB	54	Right Instrument Panel Brace
IC	54	Right Cowl Side Panel
BC	56	Left Side of Rear Cross Member
BF	56	Near the Rear Side Marker Light RH

Multiplex Communication System – BEAN

* 1 : w/ Theft Deterrent System
* 2 : w/o Theft Deterrent System



System Outline

The multiplex communication system communicates among the A/C control assembly, body ECU, combination meter, gateway ECU, option connector 1, power window master SW with ECU, sliding roof control ECU and theft deterrent ECU and controls the following systems according to the signals from respective sensors or switches.

Multiplex Communication System Includes Following Systems

- * Air Conditioning (Automatic A/C)
- * Air Conditioning (Manual A/C)
- * Automatic Light Control
- * Combination Meter
- * Door Lock Control
- * Engine Control
- * Headlight
- * Interior Light
- * Key Reminder
- * Light Auto Turn Off System
- * Navigation System
- * Power Window
- * Seat Belt Warning
- * Sliding Roof
- * SRS
- * Theft Deterrent System
- * Wireless Door Lock Control

○ : Parts Location

Code	See Page	Code	See Page	Code	See Page
A10	A	44	C12	B	44
A11	B	44	D3		44
A17		44	G5		44
B9	A	44	J16		45
B10	B	44	J17		45
C11	A	44	O3		45
				P5	46
				S20	47
				S30	A
				S31	B
				T4	45

□ : Relay Blocks

Code	See Page	Relay Blocks (Relay Block Location)
7	24	Fusible Link Block (Engine Compartment Left)

Multiplex Communication System – BEAN



: Junction Block and Wire Harness Connector

Code	See Page	Junction Block and Wire Harness (Connector Location)	
1J	30	Instrument Panel Wire and Instrument Panel J/B (Lower Finish Panel)	
1K			
3A	34	Instrument Panel Wire and J/B No.3 (Behind the Instrument Panel Center)	
3D			
3E			
3F			
3G			
3H	35		
3I			
3J			
4A	39		Cowl Wire and J/B No.4 (Right Side of Glove Box)
4D			
4F			
4H			
4O	38		



: Connector Joining Wire Harness and Wire Harness

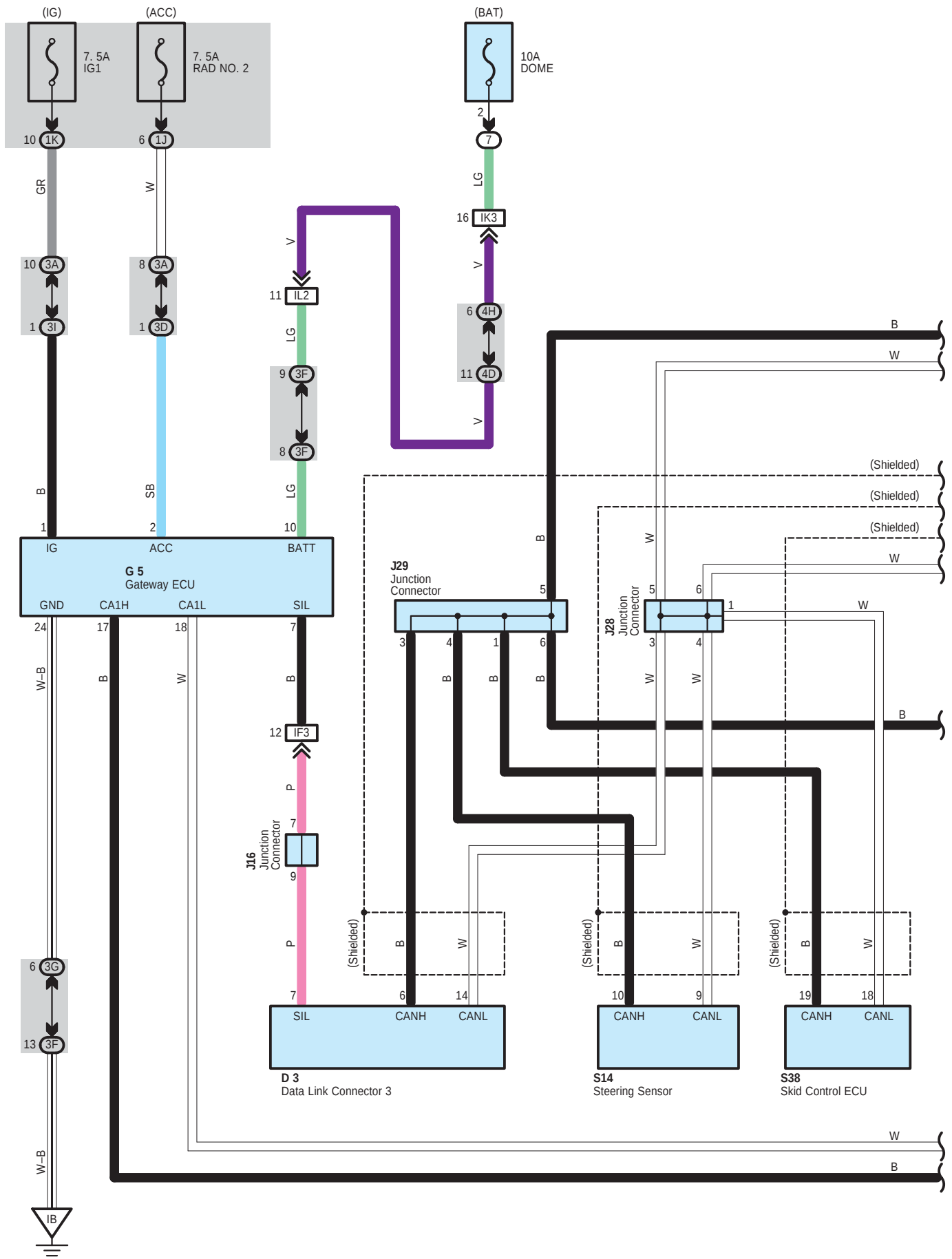
Code	See Page	Joining Wire Harness and Wire Harness (Connector Location)
IB2	54	Front Door LH Wire and Cowl Wire (Left Kick Panel)
IE1	54	Roof Wire and Cowl Wire (Near the Bottom of Left Front Pillar)
IF3	54	Instrument Panel Wire and Cowl Wire (Right Side of Instrument Panel J/B)
IK3	55	Engine Room Main Wire and Cowl Wire (Right Cowl Side Panel)
IL2	55	Instrument Panel Wire and Cowl Wire (Right Cowl Side Panel)

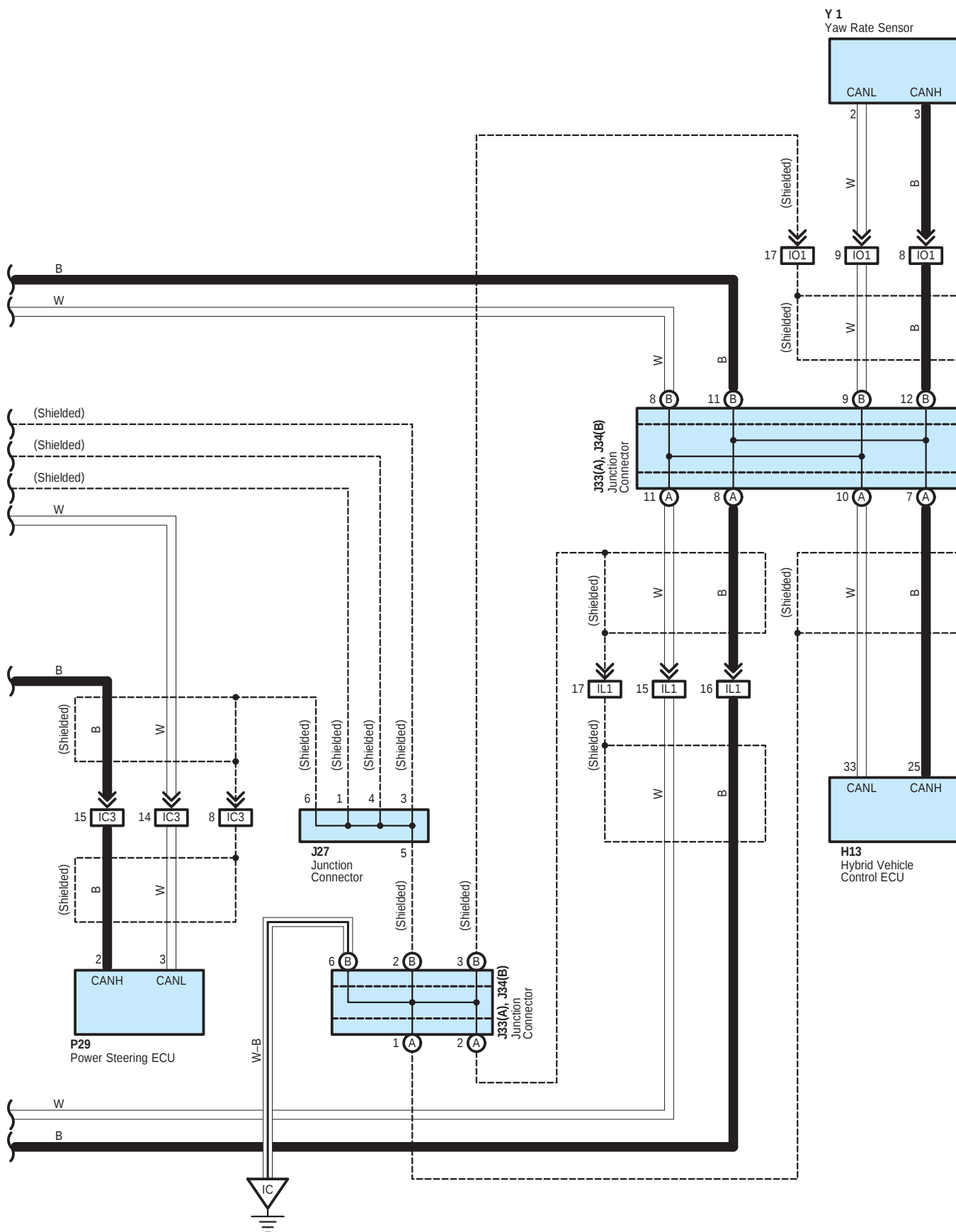


: Ground Points

Code	See Page	Ground Points Location
IB	54	Right Instrument Panel Brace

Multiplex Communication System – CAN





Multiplex Communication System – CAN

System Outline

CAN has two lines as a pair which make communication with operating voltage. CAN has excellent data speed and error detecting capacity. It consists of vehicle control systems such as skid control ECU, yaw rate sensor, hybrid vehicle control ECU, steering sensor, power steering ECU, data link connector 3 and gateway ECU. Gateway ECU has communication circuit to correspond with different types of communication data. Different types of communication data can be shared among communication parts after it goes through gateway ECU.

This system is working for the following systems:

- * Automatic Air Conditioning
- * Brake Control System
- * Cruise Control
- * Engine Control
- * EPS
- * Hybrid System
- * Shift Control System

○ : Parts Location

Code	See Page	Code	See Page	Code	See Page
D3	44	J28	45	S14	45
G5	44	J29	45	S38	45
H13	44	J33	A	Y1	47
J16	45	J34	B		
J27	45	P29	43		

○ : Relay Blocks

Code	See Page	Relay Blocks (Relay Block Location)
7	24	Fusible Link Block (Engine Compartment Left)

○ : Junction Block and Wire Harness Connector

Code	See Page	Junction Block and Wire Harness (Connector Location)
1J	30	Instrument Panel Wire and Instrument Panel J/B (Lower Finish Panel)
1K		
3A	34	Instrument Panel Wire and J/B No.3 (Behind the Instrument Panel Center)
3D		
3F		
3G	35	
3I		
4D	39	Cowl Wire and J/B No.4 (Right Side of Glove Box)
4H		

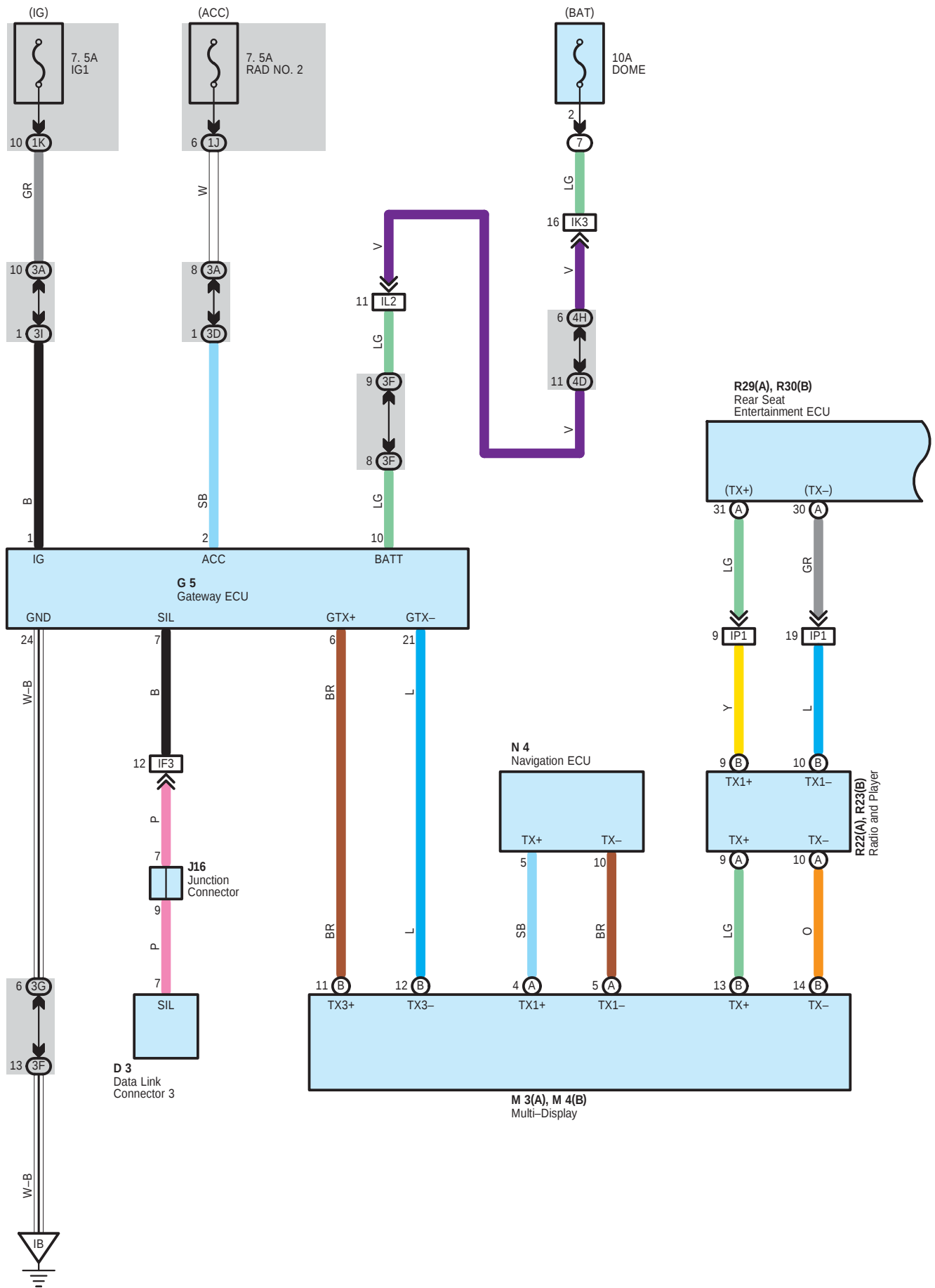
□ : Connector Joining Wire Harness and Wire Harness

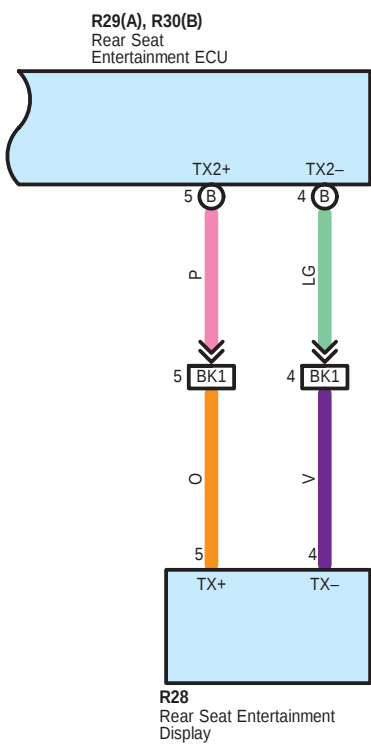
Code	See Page	Joining Wire Harness and Wire Harness (Connector Location)
IC3	54	Engine Room Main Wire and Cowl Wire (Left Cowl Side Panel)
IF3	54	Instrument Panel Wire and Cowl Wire (Right Side of Instrument Panel J/B)
IK3	55	Engine Room Main Wire and Cowl Wire (Right Cowl Side Panel)
IL1	55	Instrument Panel Wire and Cowl Wire (Right Cowl Side Panel)
IL2		
IO1	55	Cowl Wire and Floor Wire (Right Kick Panel)

▽ : Ground Points

Code	See Page	Ground Points Location
IB	54	Right Instrument Panel Brace
IC	54	Right Cowl Side Panel

Multiplex Communication System – AVC-LAN





Multiplex Communication System – AVC–LAN

System Outline

AVC–LAN consists of audio visual systems such as multi–display, radio and player, rear seat entertainment ECU, navigation ECU, rear seat entertainment display and gateway ECU. Gateway ECU has communication circuits to correspond with different types of communication data. Different types of communication data can be shared among communication parts after it goes through gateway ECU.

This system is working for the following systems:

- * Audio System (8 Speaker)
- * Navigation System

○ : Parts Location

Code		See Page		Code		See Page		Code		See Page	
D3		44		M4	B	45		R28		47	
G5		44		N4		45		R29	A	47	
J16		45		R22	A	45		R30	B	47	
M3	A	45		R23	B	45					

○ : Relay Blocks

Code	See Page	Relay Blocks (Relay Block Location)
7	24	Fusible Link Block (Engine Compartment Left)

○ : Junction Block and Wire Harness Connector

Code	See Page	Junction Block and Wire Harness (Connector Location)
1J	30	Instrument Panel Wire and Instrument Panel J/B (Lower Finish Panel)
1K		
3A	34	Instrument Panel Wire and J/B No.3 (Behind the Instrument Panel Center)
3D		
3F		
3G	35	
3I		
4D	39	Cowl Wire and J/B No.4 (Right Side of Glove Box)
4H		

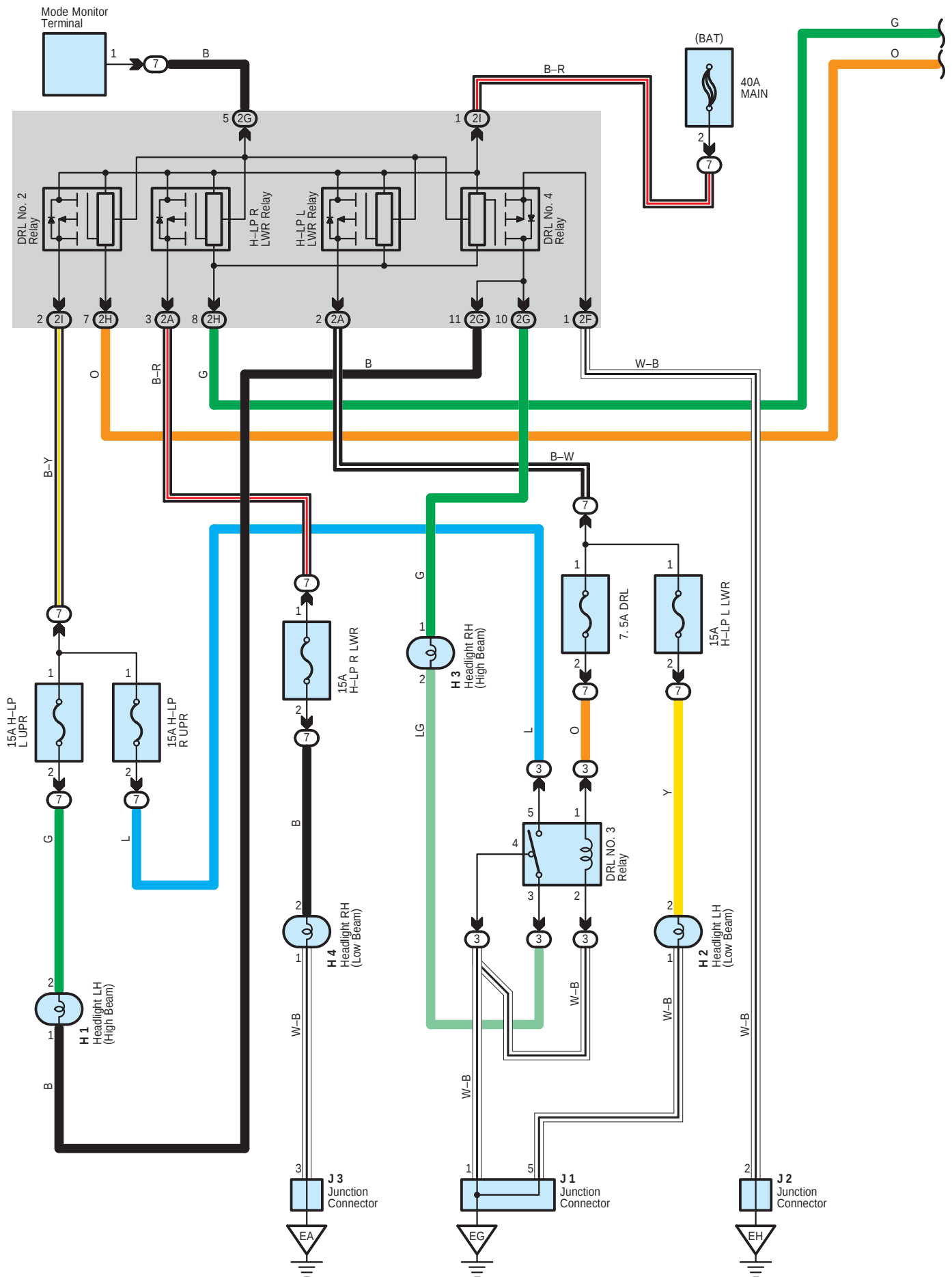
□ : Connector Joining Wire Harness and Wire Harness

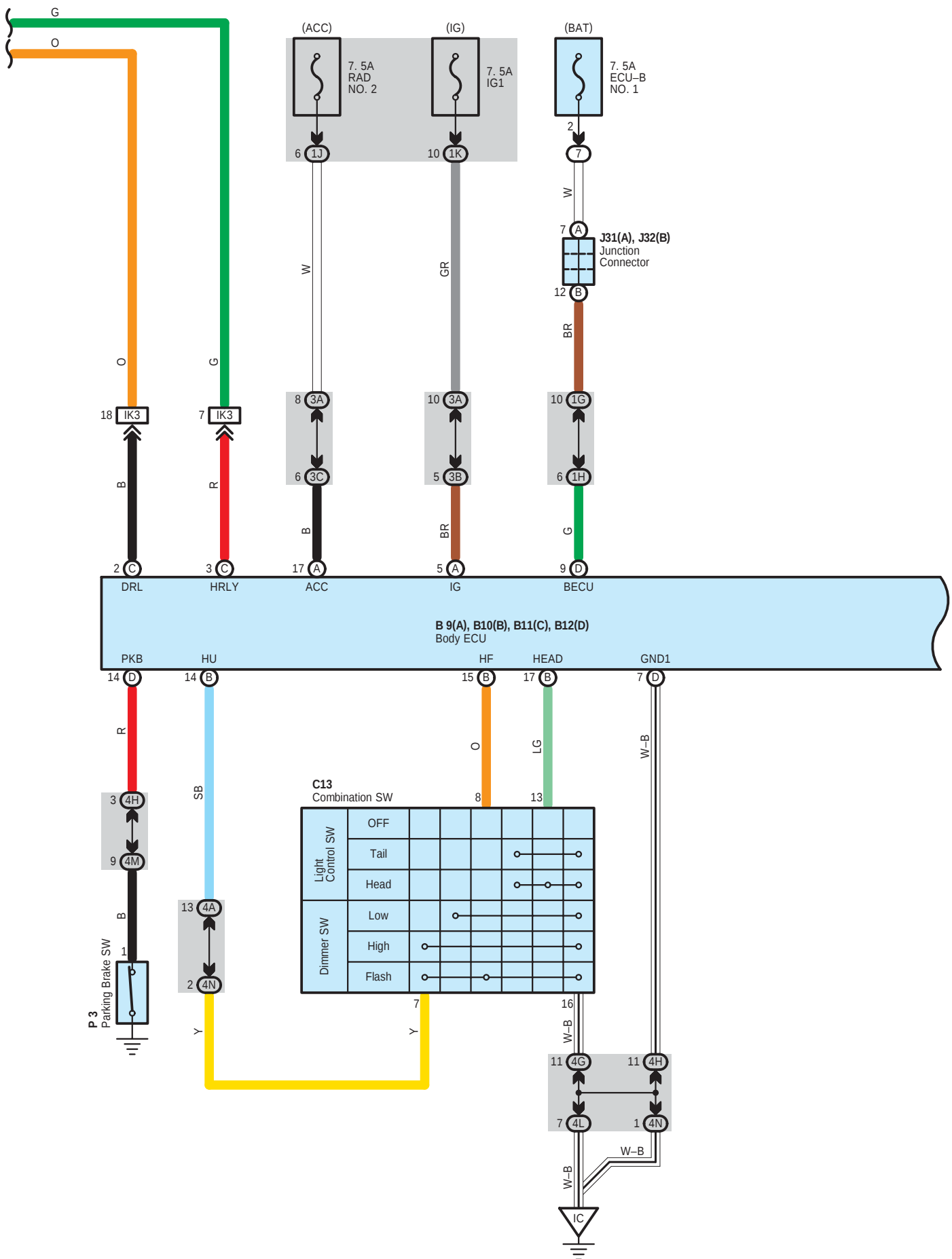
Code	See Page	Joining Wire Harness and Wire Harness (Connector Location)
IF3	54	Instrument Panel Wire and Cowl Wire (Right Side of Instrument Panel J/B)
IK3	55	Engine Room Main Wire and Cowl Wire (Right Cowl Side Panel)
IL2	55	Instrument Panel Wire and Cowl Wire (Right Cowl Side Panel)
IP1	55	Instrument Panel Wire and Floor Wire (Right Cowl Side Panel)
BK1	56	Roof No.2 Wire and Floor Wire (Right Rear Quarter Panel)

▽ : Ground Points

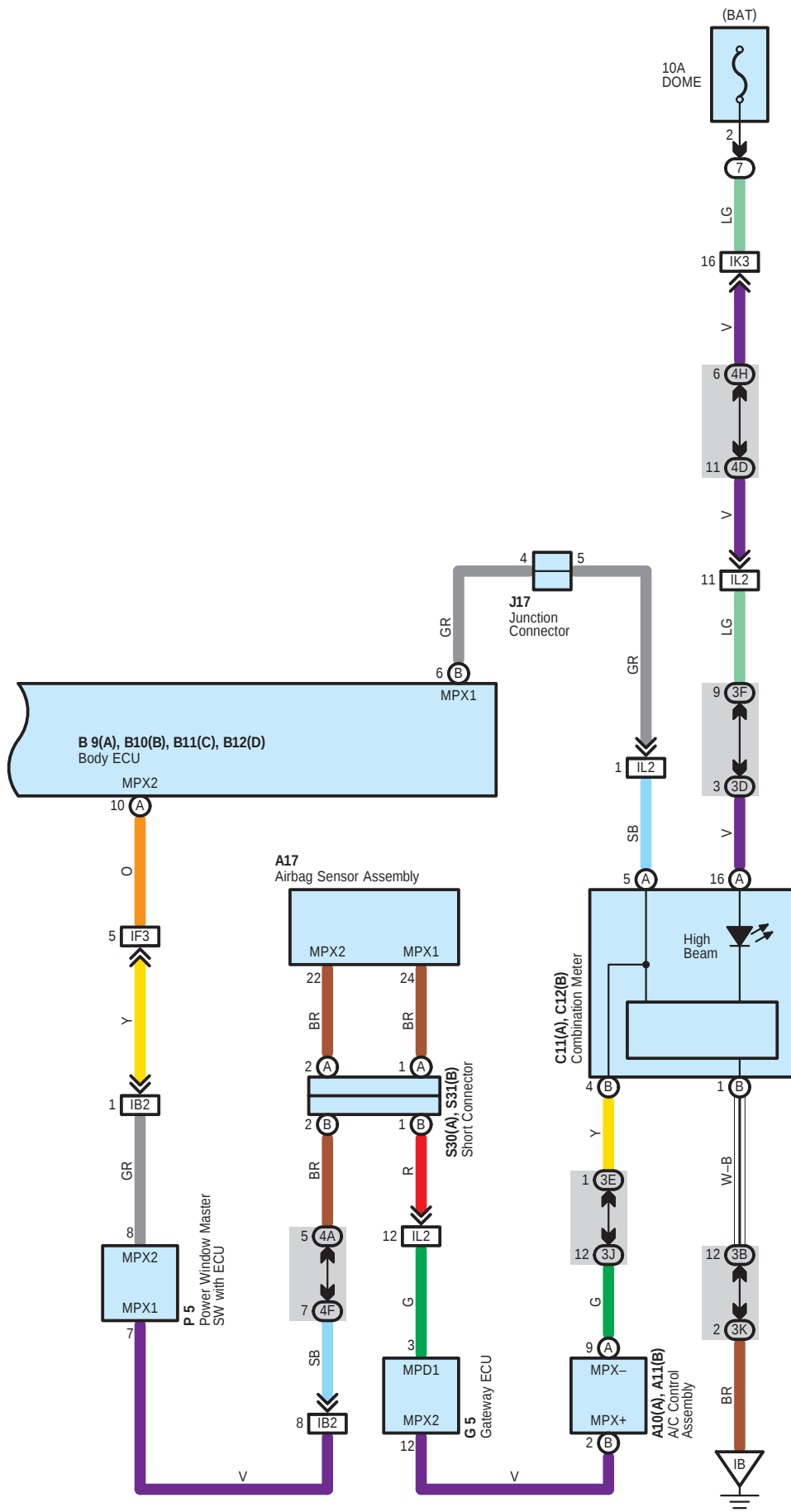
Code	See Page	Ground Points Location
IB	54	Right Instrument Panel Brace

Headlight with Daytime Running Light





Headlight with Daytime Running Light



System Outline

1. Daytime Running Light Operation

The headlight is turned on when all the following conditions are satisfied

- * When the ignition switch is ON position
- * When the light control SW is OFF position
- * When the parking brake SW is OFF position

2. Headlight Operation

- * The headlight comes on at the LOW position when the dimmer SW is turned to the low beam position with the light control SW being HEAD position.
- * If the dimmer SW is turned to the HIGH position with the light control SW being HEAD position, the headlight comes on at the high beam position. Moreover, the high beam indicator light appears on the combination meter.
- * Regardless of the light control SW positions, the headlight comes on at the low beam position when the dimmer SW is turned to FLASH position. Moreover, the high beam indicator light appears on the combination meter.

○ : Parts Location

Code		See Page	Code		See Page	Code		See Page
A10	A	44	C13	44		J17		45
A11	B	44	G5	44		J31	A	45
A17		44	H1	42		J32	B	45
B9	A	44	H2	42		P3		45
B10	B	44	H3	42		P5		46
B11	C	44	H4	42		S30	A	45
B12	D	44	J1	43		S31	B	45
C11	A	44	J2	43				
C12	B	44	J3	43				

○ : Relay Blocks

Code	See Page	Relay Blocks (Relay Block Location)
3	26	R/B No.3 (Engine Compartment Left)
7	24	Fusible Link Block (Engine Compartment Left)

Headlight with Daytime Running Light



: Junction Block and Wire Harness Connector

Code	See Page	Junction Block and Wire Harness (Connector Location)
1G	31	Cowl Wire and Instrument Panel J/B (Lower Finish Panel)
1H		
1J	30	Instrument Panel Wire and Instrument Panel J/B (Lower Finish Panel)
1K		
2A	28	Engine Room Main Wire and Engine Room J/B (Engine Compartment Left)
2F		
2G		
2H		
2I		
3A	34	Instrument Panel Wire and J/B No.3 (Behind the Instrument Panel Center)
3B		
3C		
3D		
3E		
3F		
3J	35	
3K		
4A	39	Cowl Wire and J/B No.4 (Right Side of Glove Box)
4D		
4F		
4G		
4H		
4L	38	
4M		
4N		



: Connector Joining Wire Harness and Wire Harness

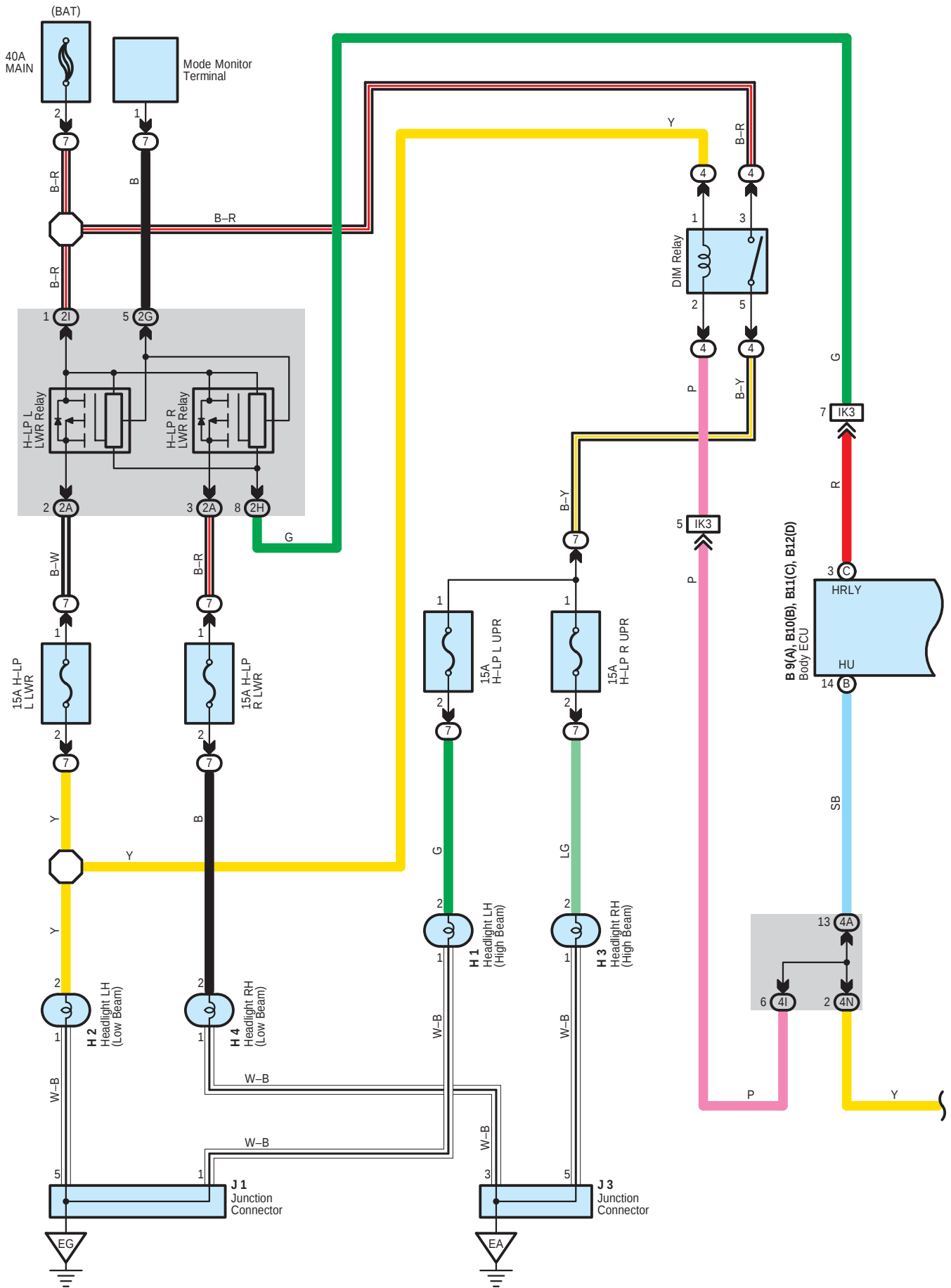
Code	See Page	Joining Wire Harness and Wire Harness (Connector Location)
IB2	54	Front Door LH Wire and Cowl Wire (Left Kick Panel)
IF3	54	Instrument Panel Wire and Cowl Wire (Right Side of Instrument Panel J/B)
IK3	55	Engine Room Main Wire and Cowl Wire (Right Cowl Side Panel)
IL2	55	Instrument Panel Wire and Cowl Wire (Right Cowl Side Panel)

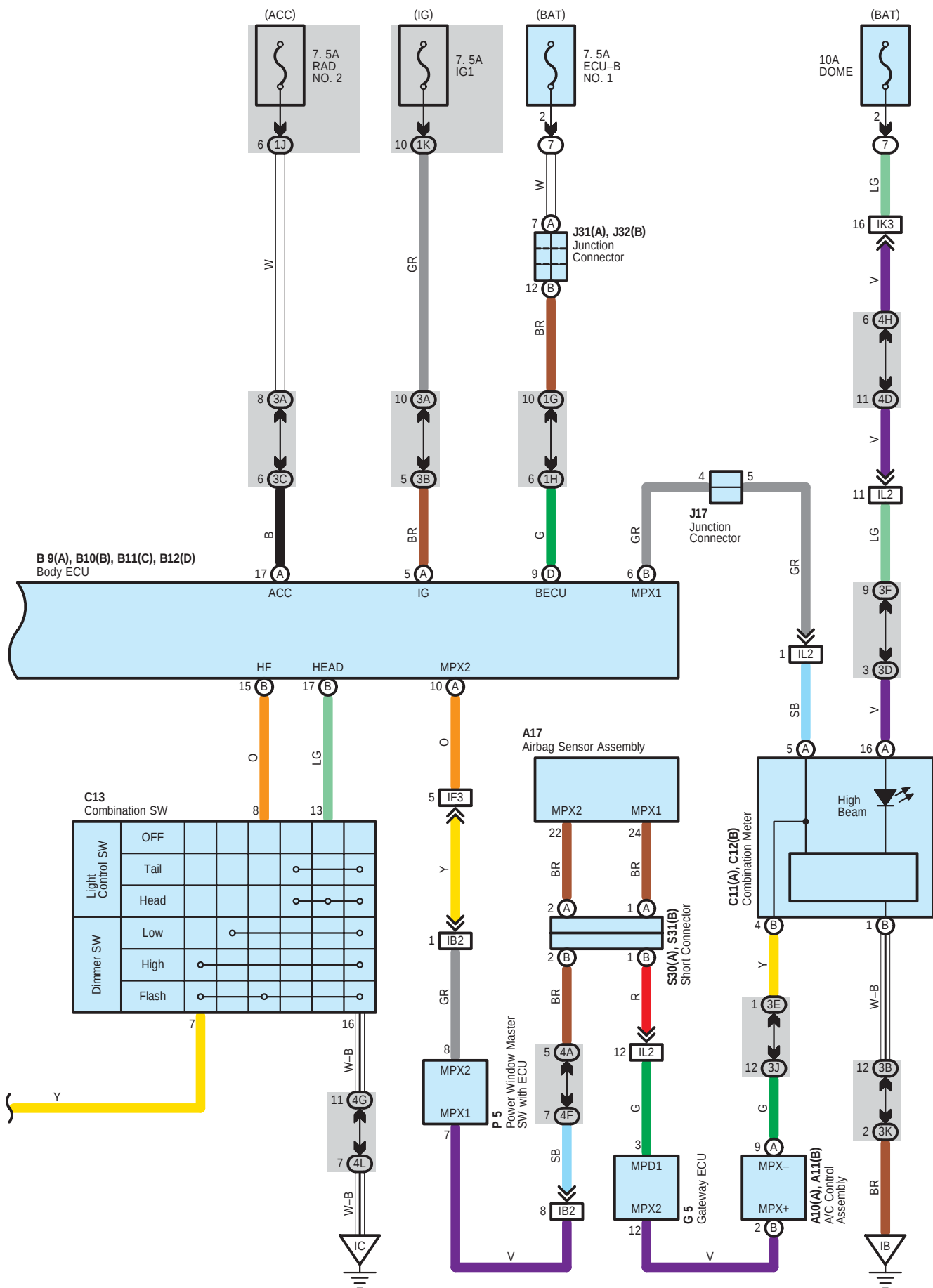


: Ground Points

Code	See Page	Ground Points Location
EA	52	Right Front Fender Apron
EG	52	Under the Left Headlight
EH		
IB	54	Right Instrument Panel Brace
IC	54	Right Cowl Side Panel

Headlight without Daytime Running Light





Headlight without Daytime Running Light

: Parts Location

Code		See Page	Code		See Page	Code		See Page
A10	A	44	C12	B	44	J3		43
A11	B	44	C13		44	J17		45
A17		44	G5		44	J31	A	45
B9	A	44	H1		42	J32	B	45
B10	B	44	H2		42	P5		46
B11	C	44	H3		42	S30	A	45
B12	D	44	H4		42	S31	B	45
C11	A	44	J1		43			

: Relay Blocks

Code	See Page	Relay Blocks (Relay Block Location)
4	27	R/B No.4 (Engine Compartment Left)
7	24	Fusible Link Block (Engine Compartment Left)

: Junction Block and Wire Harness Connector

Code	See Page	Junction Block and Wire Harness (Connector Location)
1G	31	Cowl Wire and Instrument Panel J/B (Lower Finish Panel)
1H		
1J	30	Instrument Panel Wire and Instrument Panel J/B (Lower Finish Panel)
1K		
2A	28	Engine Room Main Wire and Engine Room J/B (Engine Compartment Left)
2G		
2H		
2I		
3A	34	Instrument Panel Wire and J/B No.3 (Behind the Instrument Panel Center)
3B		
3C		
3D		
3E		
3F		
3J	35	
3K		
4A	39	Cowl Wire and J/B No.4 (Right Side of Glove Box)
4D		
4F		
4G		
4H		
4I	38	
4L		
4N		

: Connector Joining Wire Harness and Wire Harness

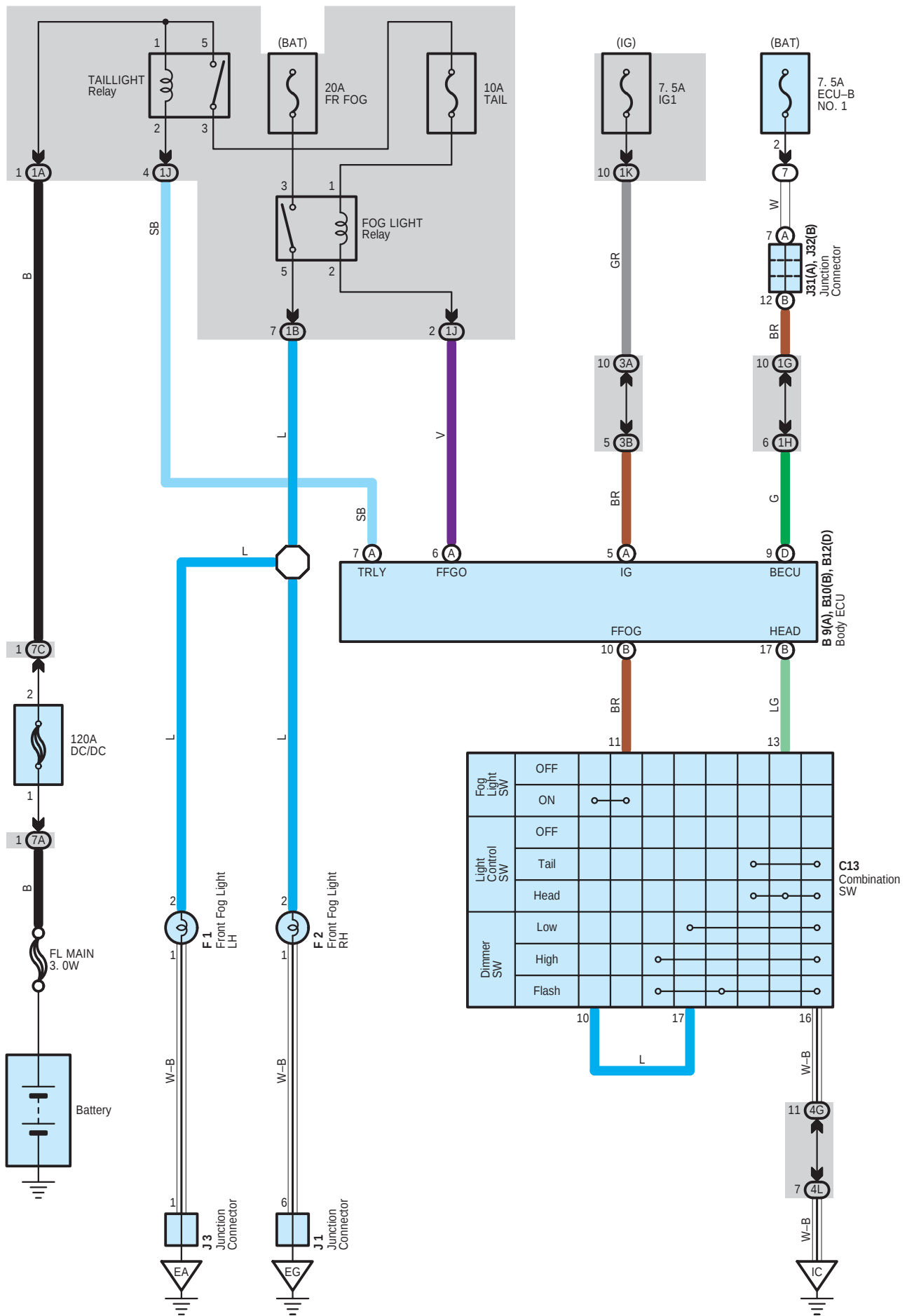
Code	See Page	Joining Wire Harness and Wire Harness (Connector Location)
IB2	54	Front Door LH Wire and Cowl Wire (Left Kick Panel)
IF3	54	Instrument Panel Wire and Cowl Wire (Right Side of Instrument Panel J/B)
IK3	55	Engine Room Main Wire and Cowl Wire (Right Cowl Side Panel)
IL2	55	Instrument Panel Wire and Cowl Wire (Right Cowl Side Panel)



: Ground Points

Code	See Page	Ground Points Location
EA	52	Right Front Fender Apron
EG	52	Under the Left Headlight
IB	54	Right Instrument Panel Brace
IC	54	Right Cowl Side Panel

Front Fog Light



 : Parts Location

Code		See Page	Code		See Page	Code		See Page
B9	A	44	F1	42		J31	A	45
B10	B	44	F2	42		J32	B	45
B12	D	44	J1	43				
C13		44	J3	43				

 : Relay Blocks

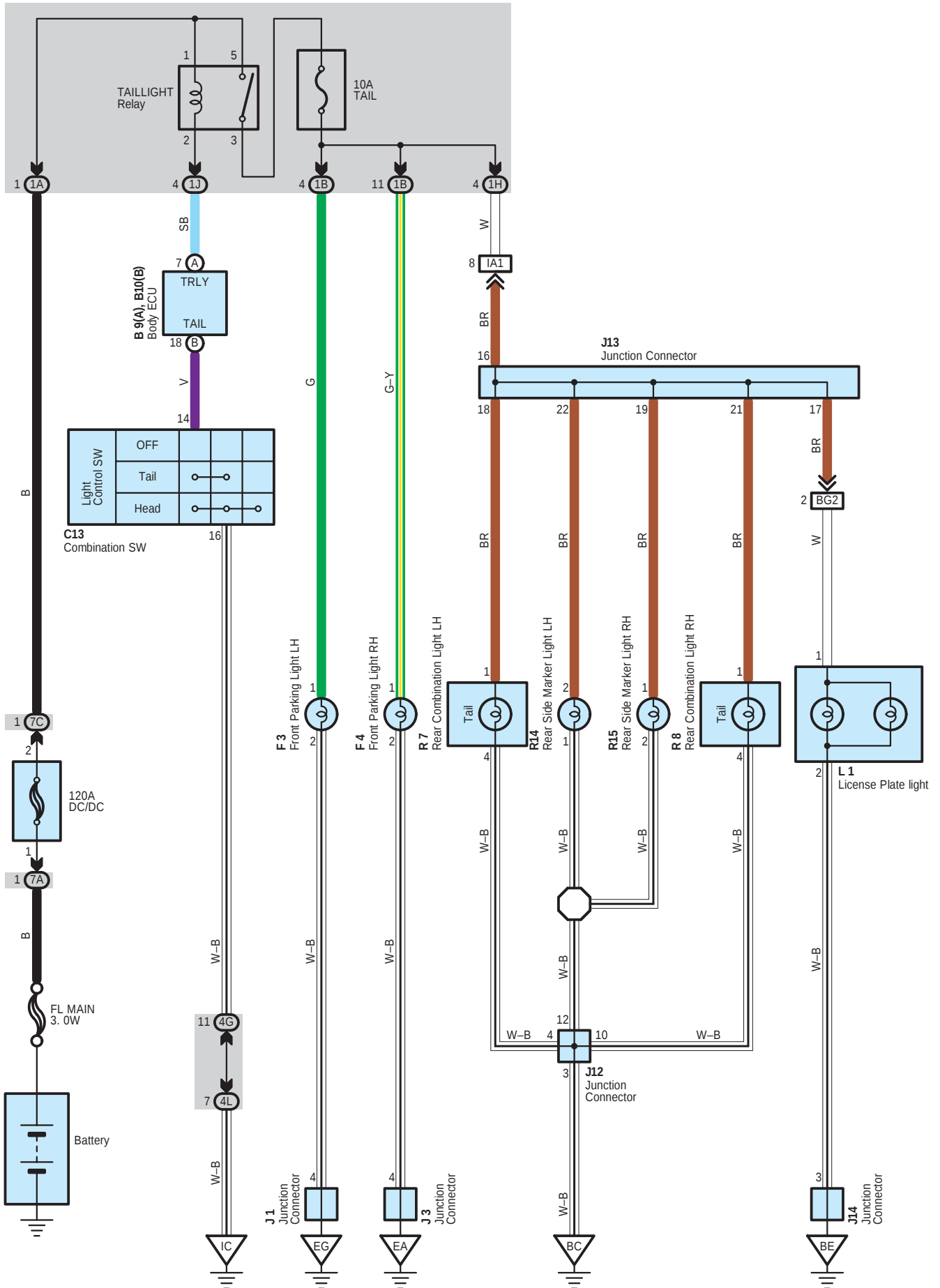
Code	See Page	Relay Blocks (Relay Block Location)
7	24	Fusible Link Block (Engine Compartment Left)

 : Junction Block and Wire Harness Connector

Code	See Page	Junction Block and Wire Harness (Connector Location)
1A	31	Engine Room Main Wire and Instrument Panel J/B (Lower Finish Panel)
1B		
1G	31	Cowl Wire and Instrument Panel J/B (Lower Finish Panel)
1H		
1J	30	Instrument Panel Wire and Instrument Panel J/B (Lower Finish Panel)
1K		
3A	34	Instrument Panel Wire and J/B No.3 (Behind the Instrument Panel Center)
3B		
4G	39	Cowl Wire and J/B No.4 (Right Side of Glove Box)
4L	38	
7A	24	Engine Room Main Wire and Fusible Link Block (Engine Compartment Left)
7C		

 : Ground Points

Code	See Page	Ground Points Location
EA	52	Right Front Fender Apron
EG	52	Under the Left Headlight
IC	54	Right Cowl Side Panel



 : Parts Location

Code		See Page	Code	See Page	Code	See Page
B9	A	44	J1	43	L1	46
B10	B	44	J3	43	R7	47
C13		44	J12	46	R8	47
F3		42	J13	46	R14	47
F4		42	J14	46	R15	47

 : Junction Block and Wire Harness Connector

Code	See Page	Junction Block and Wire Harness (Connector Location)
1A	31	Engine Room Main Wire and Instrument Panel J/B (Lower Finish Panel)
1B		
1H	31	Cowl Wire and Instrument Panel J/B (Lower Finish Panel)
1J	30	Instrument Panel Wire and Instrument Panel J/B (Lower Finish Panel)
4G	39	Cowl Wire and J/B No.4 (Right Side of Glove Box)
4L	38	
7A	24	Engine Room Main Wire and Fusible Link Block (Engine Compartment Left)
7C		

 : Connector Joining Wire Harness and Wire Harness

Code	See Page	Joining Wire Harness and Wire Harness (Connector Location)
IA1	54	Cowl Wire and Floor No.2 Wire (Left Kick Panel)
BG2	56	Back Door No.1 Wire and Floor No.2 Wire (Rear Left of the Roof)

 : Ground Points

Code	See Page	Ground Points Location
EA	52	Right Front Fender Apron
EG	52	Under the Left Headlight
IC	54	Right Cowl Side Panel
BC	56	Left Side of Rear Cross Member
BE	56	Left Side of Back Door

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



 : Parts Location

Code	See Page	Code	See Page	Code	See Page
A10	44	F3	42	J20	46
B9	44	F4	42	M3	45
C11	A 44	J1	43	R33	47
C12	B 44	J3	43	R34	47
C13	44	J12	46	T8	45

 : Relay Blocks

Code	See Page	Relay Blocks (Relay Block Location)
7	24	Fusible Link Block (Engine Compartment Left)

 : Junction Block and Wire Harness Connector

Code	See Page	Junction Block and Wire Harness (Connector Location)
1D	31	Cowl Wire and Instrument Panel J/B (Lower Finish Panel)
1E		
3B	34	Instrument Panel Wire and J/B No.3 (Behind the Instrument Panel Center)
3E		
3F		
3G	35	
3K		
4A	39	Cowl Wire and J/B No.4 (Right Side of Glove Box)
4C		
4D		
4E		
4G		
4M	38	

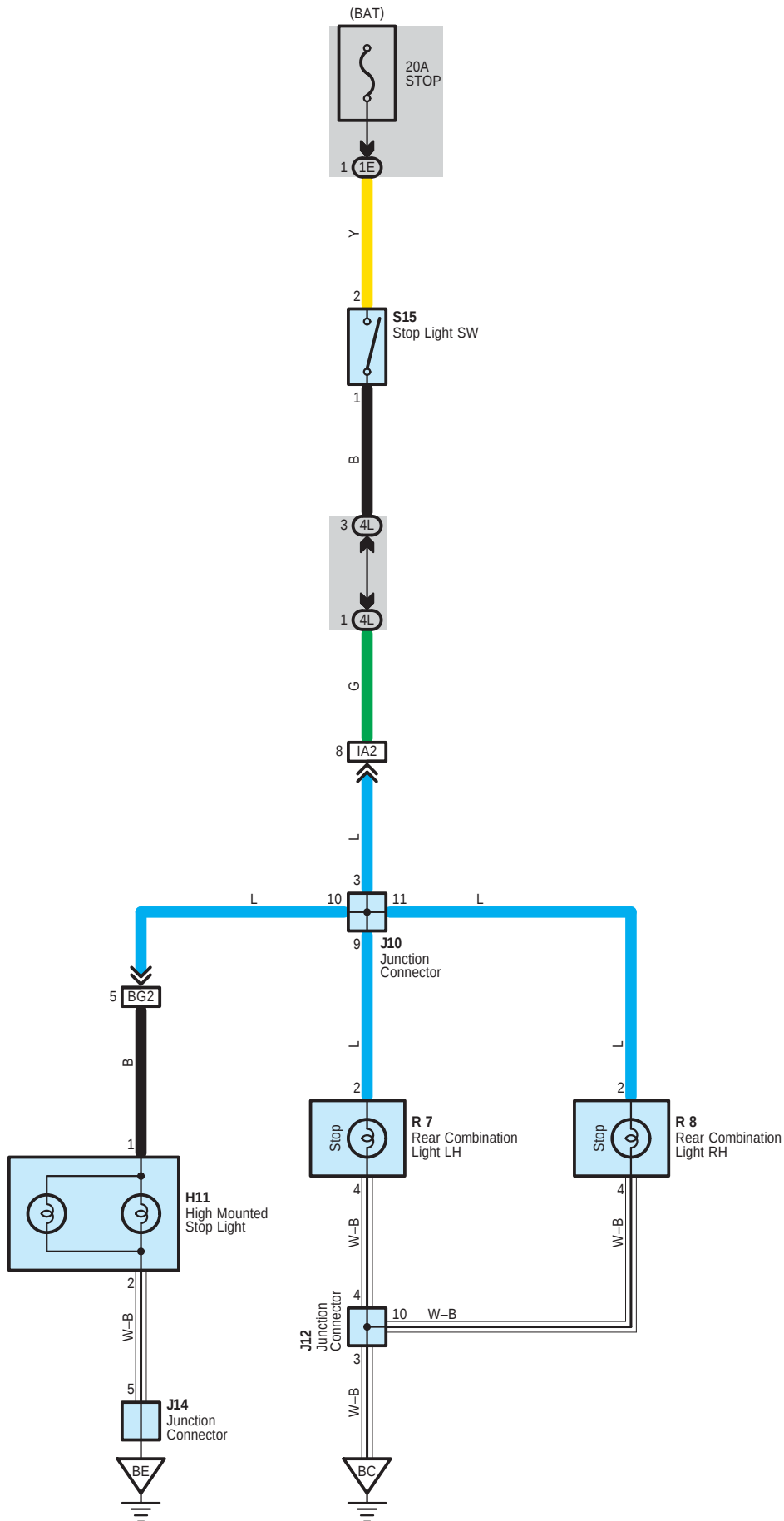
 : Connector Joining Wire Harness and Wire Harness

Code	See Page	Joining Wire Harness and Wire Harness (Connector Location)
IA2	54	Cowl Wire and Floor No.2 Wire (Left Kick Panel)
IC1	54	Engine Room Main Wire and Cowl Wire (Left Cowl Side Panel)
IC3		
IF2	54	Instrument Panel Wire and Cowl Wire (Right Side of Instrument Panel J/B)
IF3		
IK3	55	Engine Room Main Wire and Cowl Wire (Right Cowl Side Panel)
IL1	55	Instrument Panel Wire and Cowl Wire (Right Cowl Side Panel)
IL2		

 : Ground Points

Code	See Page	Ground Points Location
EA	52	Right Front Fender Apron
EG	52	Under the Left Headlight
IA	54	Left Cowl Side Panel
IB	54	Right Instrument Panel Brace
BC	56	Left Side of Rear Cross Member

Stop Light



 : Parts Location

Code	See Page	Code	See Page	Code	See Page
H11	46	J14	46	S15	45
J10	46	R7	47		
J12	46	R8	47		

 : Junction Block and Wire Harness Connector

Code	See Page	Junction Block and Wire Harness (Connector Location)
1E	31	Cowl Wire and Instrument Panel J/B (Lower Finish Panel)
4L	38	Cowl Wire and J/B No.4 (Right Side of Glove Box)

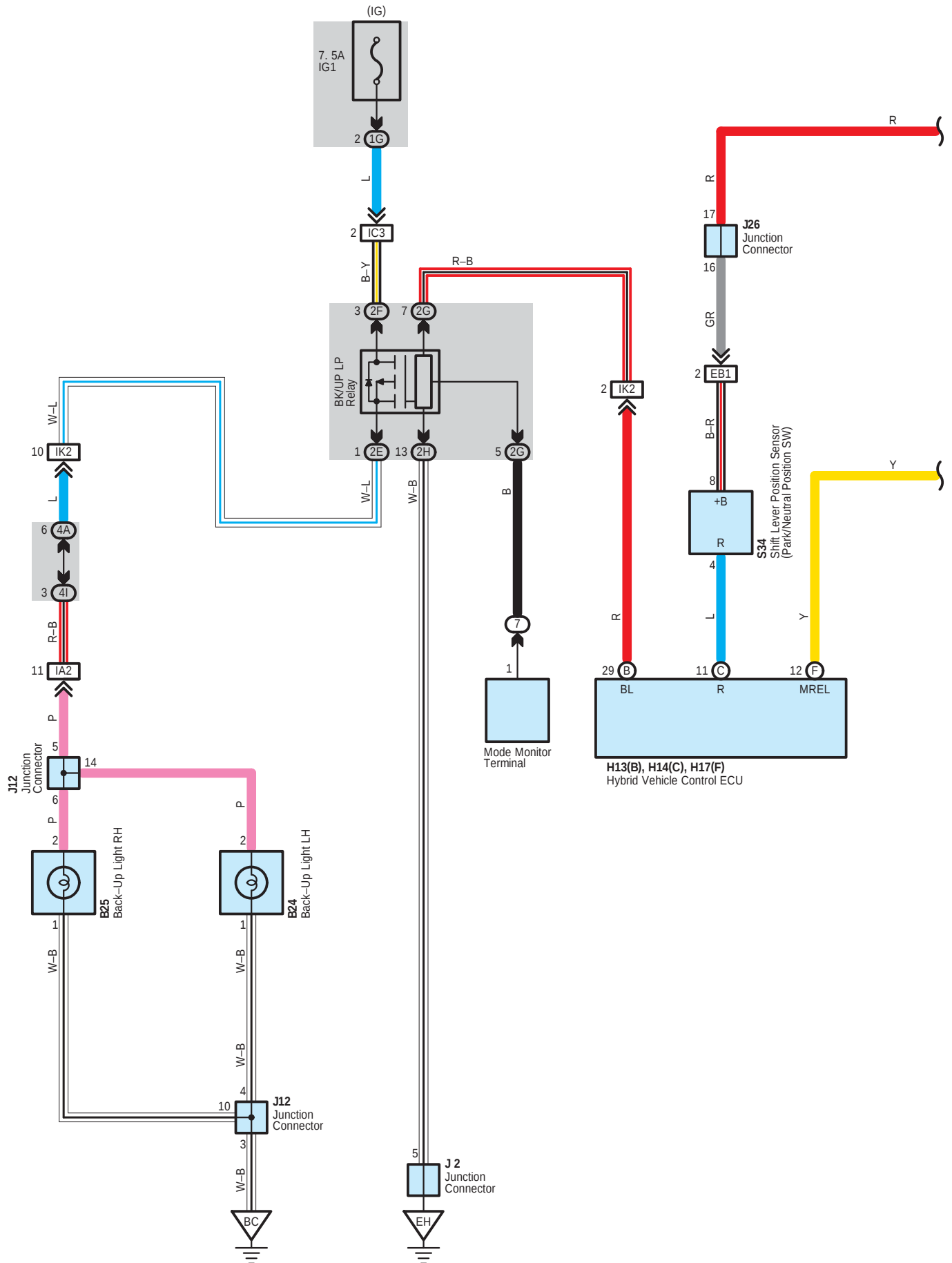
 : Connector Joining Wire Harness and Wire Harness

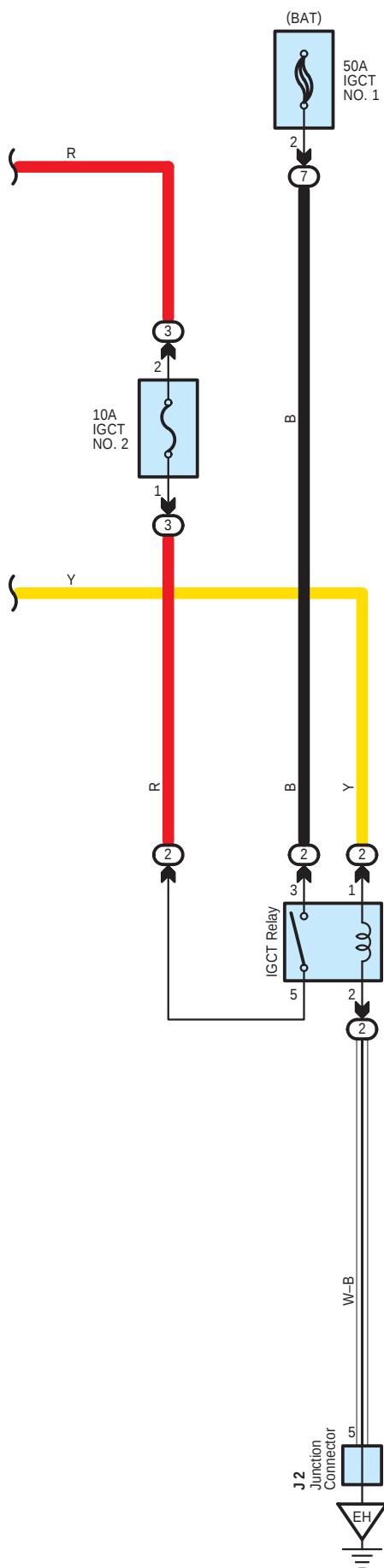
Code	See Page	Joining Wire Harness and Wire Harness (Connector Location)
IA2	54	Cowl Wire and Floor No.2 Wire (Left Kick Panel)
BG2	56	Back Door No.1 Wire and Floor No.2 Wire (Rear Left of the Roof)

 : Ground Points

Code	See Page	Ground Points Location
BC	56	Left Side of Rear Cross Member
BE	56	Left Side of Back Door

Back-Up Light





Back-Up Light

: Parts Location

Code	See Page	Code	See Page	Code	See Page
B24	46	H14	C 44	J12	46
B25	46	H17	F 44	J26	45
H13	B 44	J2	43	S34	43

: Relay Blocks

Code	See Page	Relay Blocks (Relay Block Location)
2	25	R/B No.2 (Engine Compartment Left)
3	26	R/B No.3 (Engine Compartment Left)
7	24	Fusible Link Block (Engine Compartment Left)

: Junction Block and Wire Harness Connector

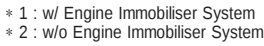
Code	See Page	Junction Block and Wire Harness (Connector Location)
1G	31	Cowl Wire and Instrument Panel J/B (Lower Finish Panel)
2E	28	Engine Room Main Wire and Engine Room J/B (Engine Compartment Left)
2F		
2G		
2H		
4A	39	Cowl Wire and J/B No.4 (Right Side of Glove Box)
4I	38	

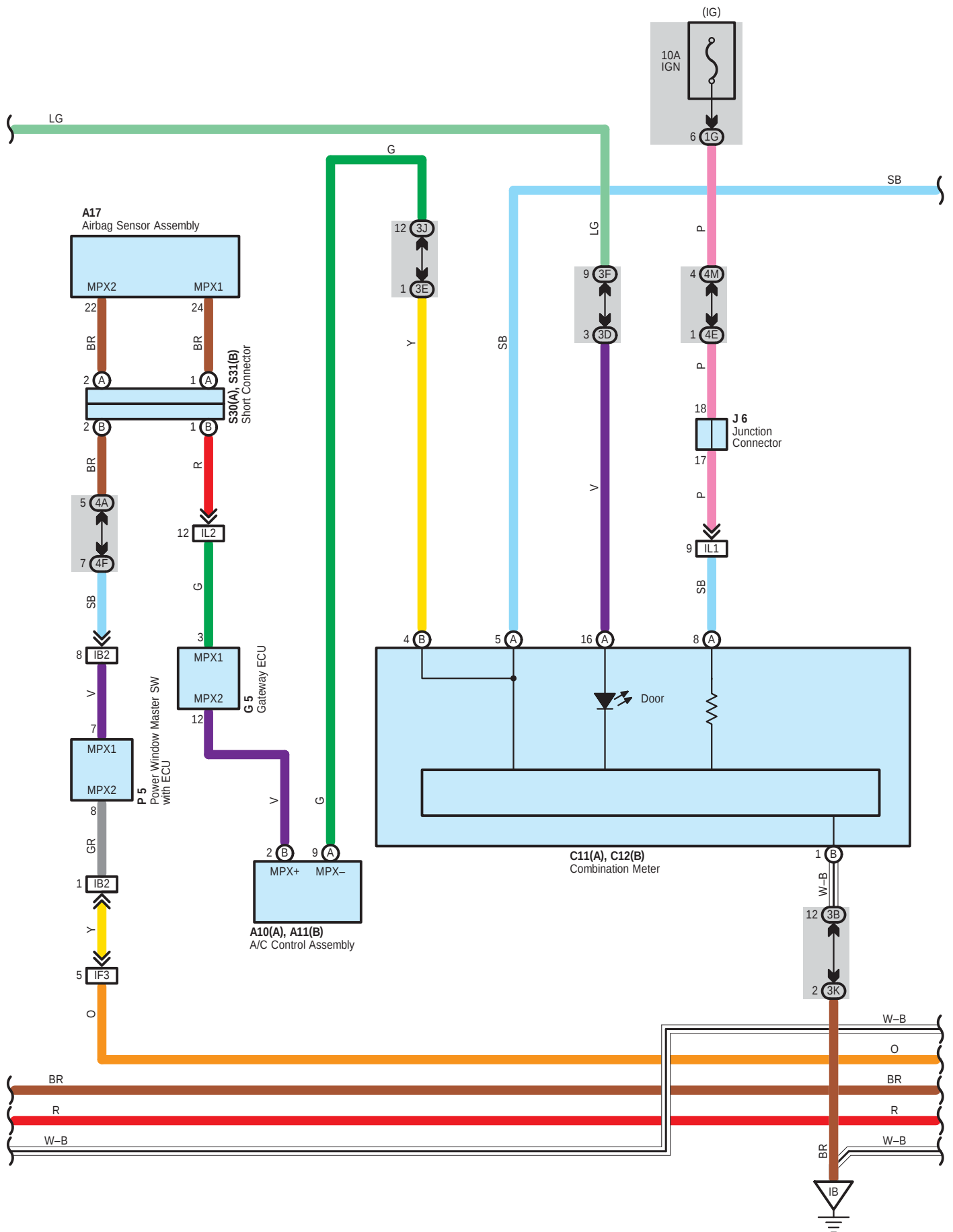
: Connector Joining Wire Harness and Wire Harness

Code	See Page	Joining Wire Harness and Wire Harness (Connector Location)
EB1	52	Engine Wire and Engine Room Main Wire (Front Side of Engine Room R/B No.4)
IA2	54	Cowl Wire and Floor No.2 Wire (Left Kick Panel)
IC3	54	Engine Room Main Wire and Cowl Wire (Left Cowl Side Panel)
IK2	55	Engine Room Main Wire and Cowl Wire (Right Cowl Side Panel)

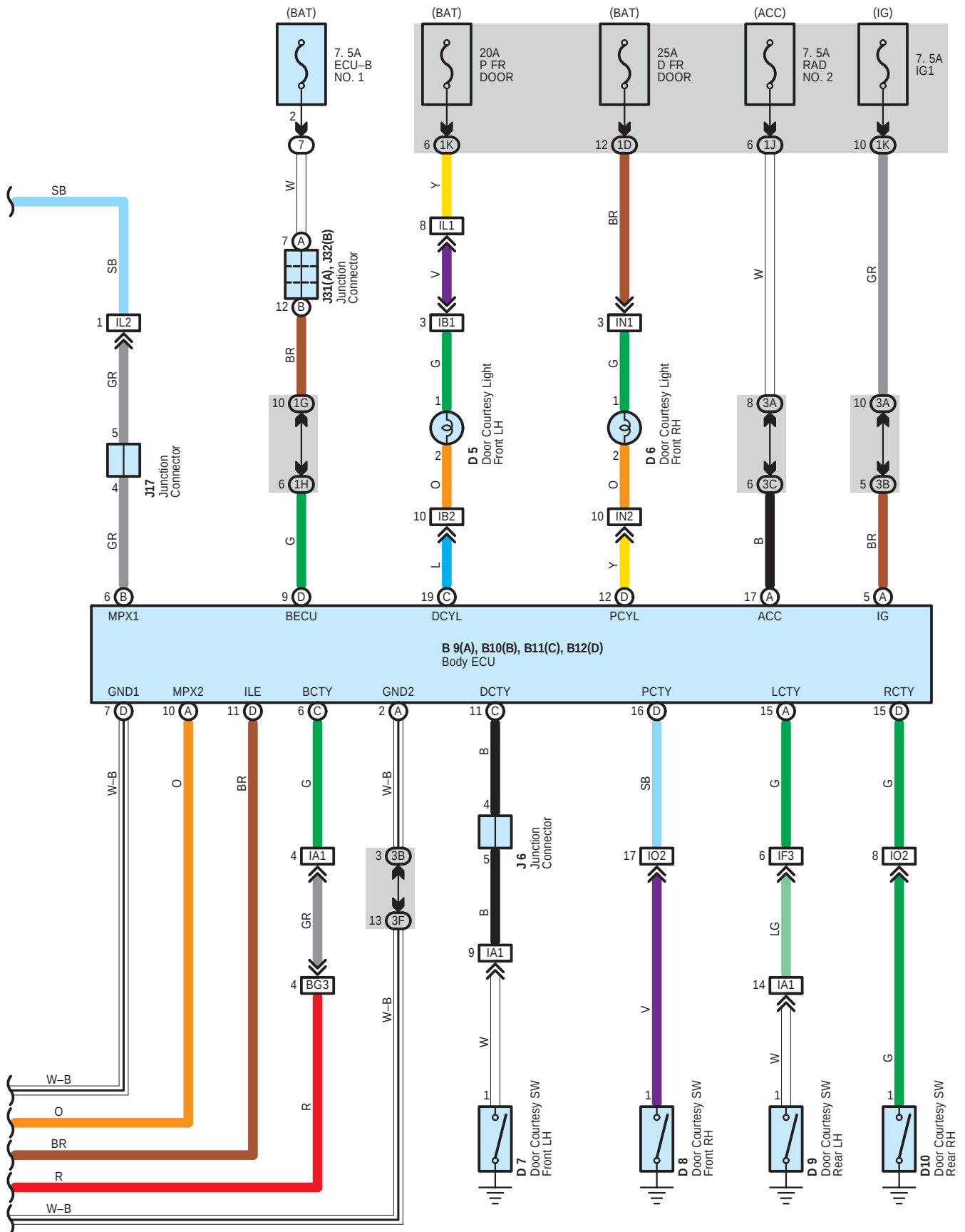
: Ground Points

Code	See Page	Ground Points Location
EH	52	Under the Left Headlight
BC	56	Left Side of Rear Cross Member





Interior Light



System Outline

Illuminated Entry System

This system provides various functions listed below through communication control of the body ECU etc.

- * Each relevant light lights up if any door is opened.
- * If all the doors are closed with the ignition SW set at OFF after any door is opened, each light lights up for 15 sec., and then fades out when the time set on the timer has elapsed.
- * If any door is unlocked from the driver or passenger side or if any door is unlocked with the unlock SW on the transmitter after all the doors are closed and locked, each light lights up for 15 sec., and then fades out when the time set on the timer has elapsed.
- * If the ignition SW is turned to the ACC or ON position while each light is being lit by the timer, the timer lighting is cancelled and the light fades out.
- * If all the doors are closed with the ignition SW set at ACC or ON after any door is opened, the timer lighting is cancelled and the light fades out.
- * Each light above is the interior light, ignition key cylinder light, and door courtesy lights.

○ : Parts Location

Code	See Page	Code	See Page	Code	See Page
A10	A 44	D6	46	J31	A 45
A11	B 44	D7	46	J32	B 45
A17	44	D8	46	O5	46
B9	A 44	D9	46	R11	47
B10	B 44	D10	46	R12	47
B11	C 44	G5	44	S30	A 45
B12	D 44	I14	44	S31	B 45
C11	A 44	I16	46	T7	45
C12	B 44	J6	45	V9	47
D4	46	J14	46	V10	47
D5	46	J17	45		

○ : Relay Blocks

Code	See Page	Relay Blocks (Relay Block Location)
7	24	Fusible Link Block (Engine Compartment Left)

Interior Light



: Junction Block and Wire Harness Connector

Code	See Page	Junction Block and Wire Harness (Connector Location)
1D	31	Cowl Wire and Instrument Panel J/B (Lower Finish Panel)
1E		
1G		
1H		
1J	30	Instrument Panel Wire and Instrument Panel J/B (Lower Finish Panel)
1K		
3A	34	Instrument Panel Wire and J/B No.3 (Behind the Instrument Panel Center)
3B		
3C		
3D		
3E		
3F		
3J	35	
3K		
4A	39	
4D		
4E		
4F		
4H	38	Cowl Wire and J/B No.4 (Right Side of Glove Box)
4J		
4L		
4M		
4N		



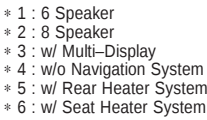
: Connector Joining Wire Harness and Wire Harness

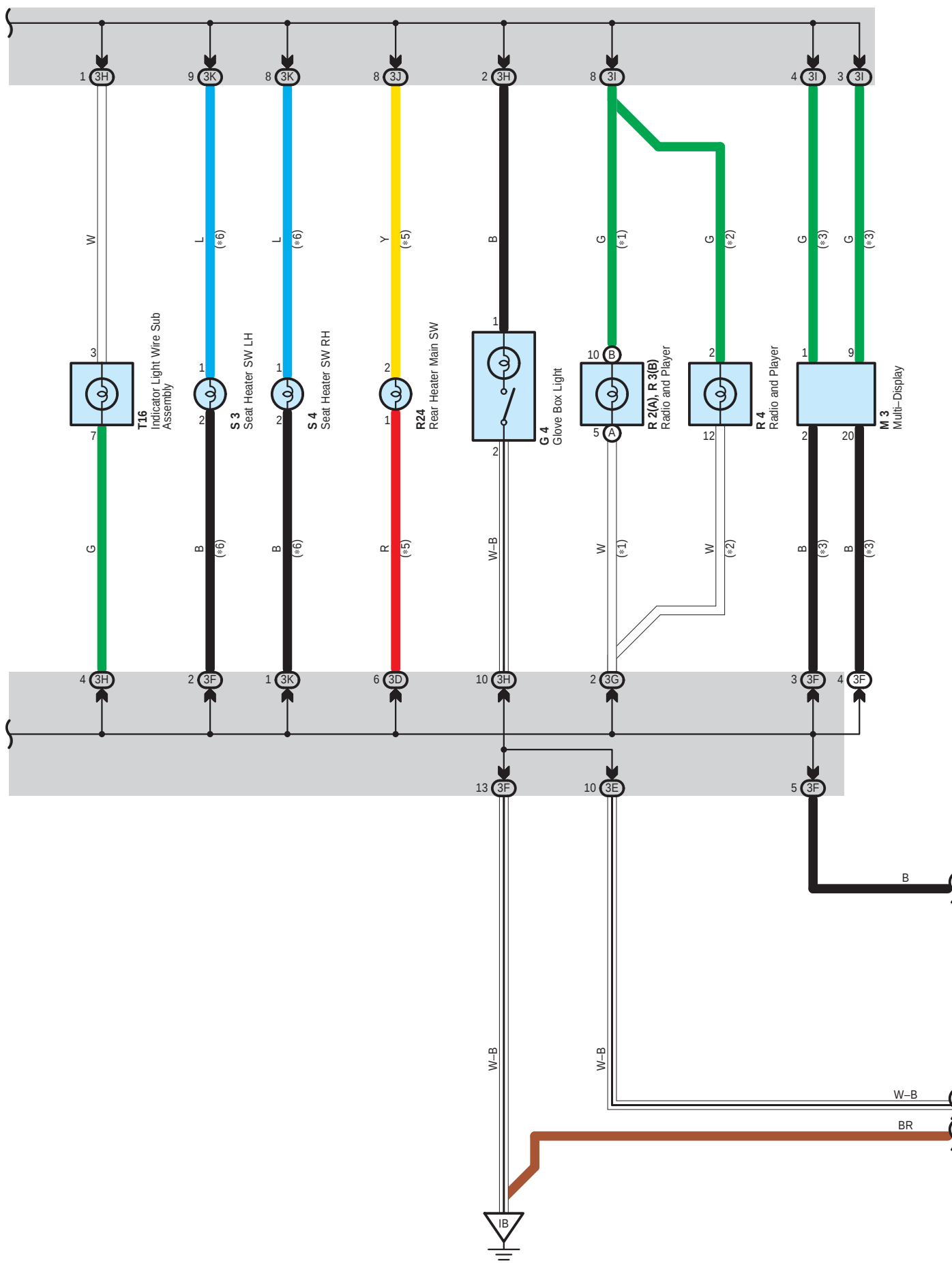
Code	See Page	Joining Wire Harness and Wire Harness (Connector Location)
IA1	54	Cowl Wire and Floor No.2 Wire (Left Kick Panel)
IB1	54	Front Door LH Wire and Cowl Wire (Left Kick Panel)
IB2		
IE1	54	Roof Wire and Cowl Wire (Near the Bottom of Left Front Pillar)
IF3	54	Instrument Panel Wire and Cowl Wire (Right Side of Instrument Panel J/B)
IK3	55	Engine Room Main Wire and Cowl Wire (Right Cowl Side Panel)
IL1	55	Instrument Panel Wire and Cowl Wire (Right Cowl Side Panel)
IL2		
IN1	55	Front Door RH Wire and Cowl Wire (Right Kick Panel)
IN2		
IO2	55	Cowl Wire and Floor Wire (Right Kick Panel)
BG3	56	Back Door No.1 Wire and Floor No.2 Wire (Rear Left of the Roof)

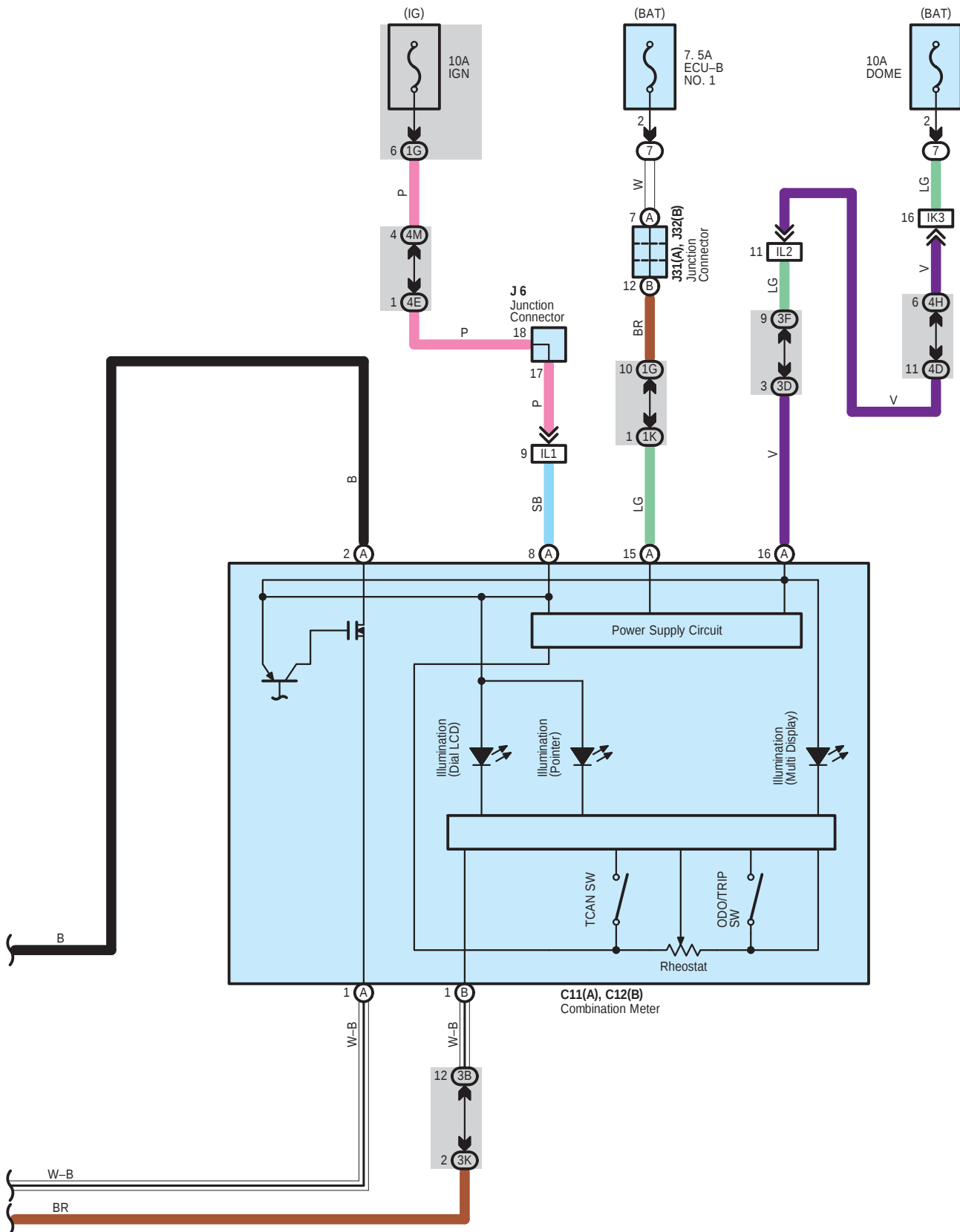


: Ground Points

Code	See Page	Ground Points Location
IA	54	Left Cowl Side Panel
IB	54	Right Instrument Panel Brace
IC	54	Right Cowl Side Panel
BE	56	Left Side of Back Door







 : Parts Location

Code	See Page	Code	See Page	Code	See Page
A10	44	G4	44	R4	45
A22	44	J6	45	R23	45
B9	A 44	J19	46	R24	45
B10	B 44	J31	A 45	R26	47
C10	44	J32	B 45	S3	45
C11	A 44	M2	45	S4	45
C12	B 44	M3	45	T16	45
C13	44	R2	A 45		
C16	44	R3	B 45		

 : Relay Blocks

Code	See Page	Relay Blocks (Relay Block Location)
7	24	Fusible Link Block (Engine Compartment Left)

 : Junction Block and Wire Harness Connector

Code	See Page	Junction Block and Wire Harness (Connector Location)
1A	31	Engine Room Main Wire and Instrument Panel J/B (Lower Finish Panel)
1D	31	Cowl Wire and Instrument Panel J/B (Lower Finish Panel)
1G		
1J	30	Instrument Panel Wire and Instrument Panel J/B (Lower Finish Panel)
1K		
3A	34	Instrument Panel Wire and J/B No.3 (Behind the Instrument Panel Center)
3B		
3D		
3E		
3F		
3G	35	
3H		
3I		
3J		
3K		
4D	39	Cowl Wire and J/B No.4 (Right Side of Glove Box)
4E		
4G		
4H		
4L	38	
4M		
7A	24	Engine Room Main Wire and Fusible Link Block (Engine Compartment Left)
7C		

 : Connector Joining Wire Harness and Wire Harness

Code	See Page	Joining Wire Harness and Wire Harness (Connector Location)
IK3	55	Engine Room Main Wire and Cowl Wire (Right Cowl Side Panel)
IL1	55	Instrument Panel Wire and Cowl Wire (Right Cowl Side Panel)
IL2		
IR1	55	Instrument Panel Wire and Floor Wire (Under the Shift Lever)

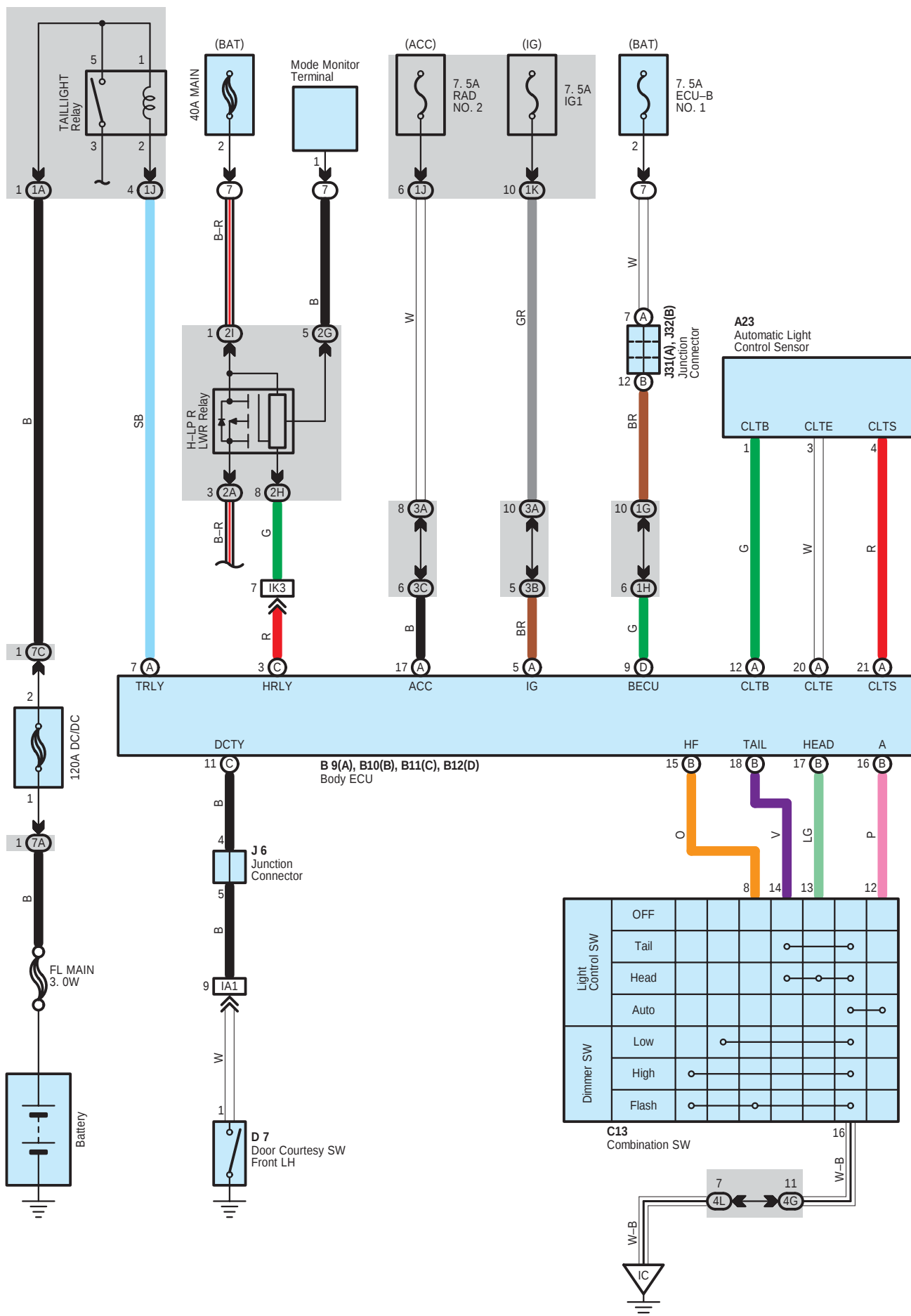
Illumination



: Ground Points

Code	See Page	Ground Points Location
IB	54	Right Instrument Panel Brace
IC	54	Right Cowl Side Panel
BB	56	Right Center Pillar
BF	56	Near the Rear Side Marker Light RH

Automatic Light Control



System Outline

Automatic light control is designed for turning taillights and headlights on/off automatically according to the surroundings brightness when the light control SW is on AUTO position under the condition that the ignition SW is on.

Automatic Light Control Operation

When the surrounding darkens (Darker than the value set for taillight lightning), taillight is automatically turned on under the condition that the ignition SW is on with the light control SW being on AUTO position. When further darkens (Darker than the value set for headlight lightning), the headlight is automatically turned on.

In addition, if the brightness reaches the value set for turning the each light off, each light is turned off.

○ : Parts Location

Code		See Page		Code		See Page		Code		See Page	
A23		44		B12	D	44		J31	A	45	
B9	A	44		C13		44		J32	B	45	
B10	B	44		D7		46					
B11	C	44		J6		45					

○ : Relay Blocks

Code	See Page	Relay Blocks (Relay Block Location)
7	24	Fusible Link Block (Engine Compartment Left)

○ : Junction Block and Wire Harness Connector

Code	See Page	Junction Block and Wire Harness (Connector Location)
1A	31	Engine Room Main Wire and Instrument Panel J/B (Lower Finish Panel)
1G	31	Cowl Wire and Instrument Panel J/B (Lower Finish Panel)
1H		
1J	30	Instrument Panel Wire and Instrument Panel J/B (Lower Finish Panel)
1K		
2A	28	Engine Room Main Wire and Engine Room J/B (Engine Compartment Left)
2G		
2H		
2I		
3A	34	Instrument Panel Wire and J/B No.3 (Behind the Instrument Panel Center)
3B		
3C		
4G	39	Cowl Wire and J/B No.4 (Right Side of Glove Box)
4L	38	
7A	24	Engine Room Main Wire and Fusible Link Block (Engine Compartment Left)
7C		

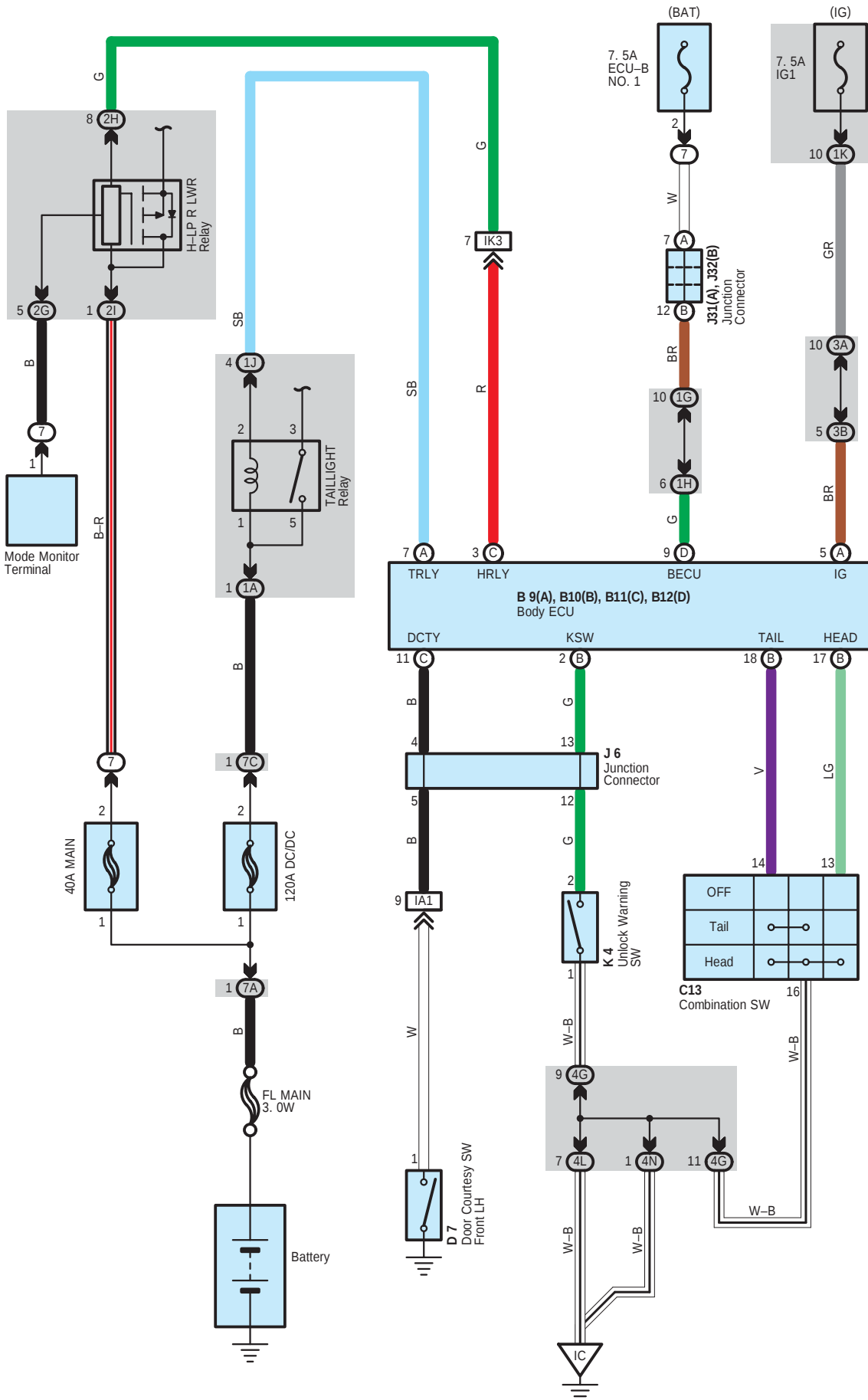
□ : Connector Joining Wire Harness and Wire Harness

Code	See Page	Joining Wire Harness and Wire Harness (Connector Location)
IA1	54	Cowl Wire and Floor No.2 Wire (Left Kick Panel)
IK3	55	Engine Room Main Wire and Cowl Wire (Right Cowl Side Panel)

▽ : Ground Points

Code	See Page	Ground Points Location
IC	54	Right Cowl Side Panel

Light Auto Turn Off System



System Outline

1. Normal Lighting Operation

<Turn taillight on>

With the light control SW turned to TAIL position, a signal is input into TERMINAL (B) 18 of the body ECU. Due to this signal, the current flowing to TERMINAL (A) 7 of the body ECU flows to TERMINAL (B) 18 to TERMINAL 14 of the light control SW to TERMINAL 16 to GROUND, and TAILLIGHT relay causes taillights to turn on.

<Turn headlight on>

With the light control SW turned to HEAD position, a signal is input into TERMINALS (B) 17 and (B) 18 of the body ECU. Due to this signal, the current flowing to TERMINAL (C) 3 of the body ECU flows to TERMINAL (B) 17 to TERMINAL 13 of the light control SW to TERMINAL 16 to GROUND in the headlight circuit, and causes TAILLIGHT and H-LP R LWR relay to turn the lights on. The taillight circuit is same as above.

2. Light Auto Turn Off Operation

With light on and ignition SW turned off (Input signal goes to TERMINAL (A) 5 of the body ECU), when the driver's door is opened (Input signal goes to TERMINAL (C) 11 of the body ECU), the ECU operates and the current is cut off which flows from TERMINAL (A) 7 of the body ECU to TERMINAL (B) 18 in taillight circuit and from TERMINAL (C) 3 to TERMINAL (B) 17 in headlight circuit.

As a result, all lights are turned off automatically.

○ : Parts Location

Code	See Page	Code	See Page	Code	See Page
B9	A 44	C13	44	J32	B 45
B10	B 44	D7	46	K4	45
B11	C 44	J6	45		
B12	D 44	J31	A 45		

○ : Relay Blocks

Code	See Page	Relay Blocks (Relay Block Location)
7	24	Fusible Link Block (Engine Compartment Left)

○ : Junction Block and Wire Harness Connector

Code	See Page	Junction Block and Wire Harness (Connector Location)
1A	31	Engine Room Main Wire and Instrument Panel J/B (Lower Finish Panel)
1G	31	Cowl Wire and Instrument Panel J/B (Lower Finish Panel)
1H		
1J	30	Instrument Panel Wire and Instrument Panel J/B (Lower Finish Panel)
1K		
2G	28	Engine Room Main Wire and Engine Room J/B (Engine Compartment Left)
2H		
2I		
3A	34	Instrument Panel Wire and J/B No.3 (Behind the Instrument Panel Center)
3B		
4G	39	Cowl Wire and J/B No.4 (Right Side of Glove Box)
4L	38	
4N		
7A	24	Engine Room Main Wire and Fusible Link Block (Engine Compartment Left)
7C		

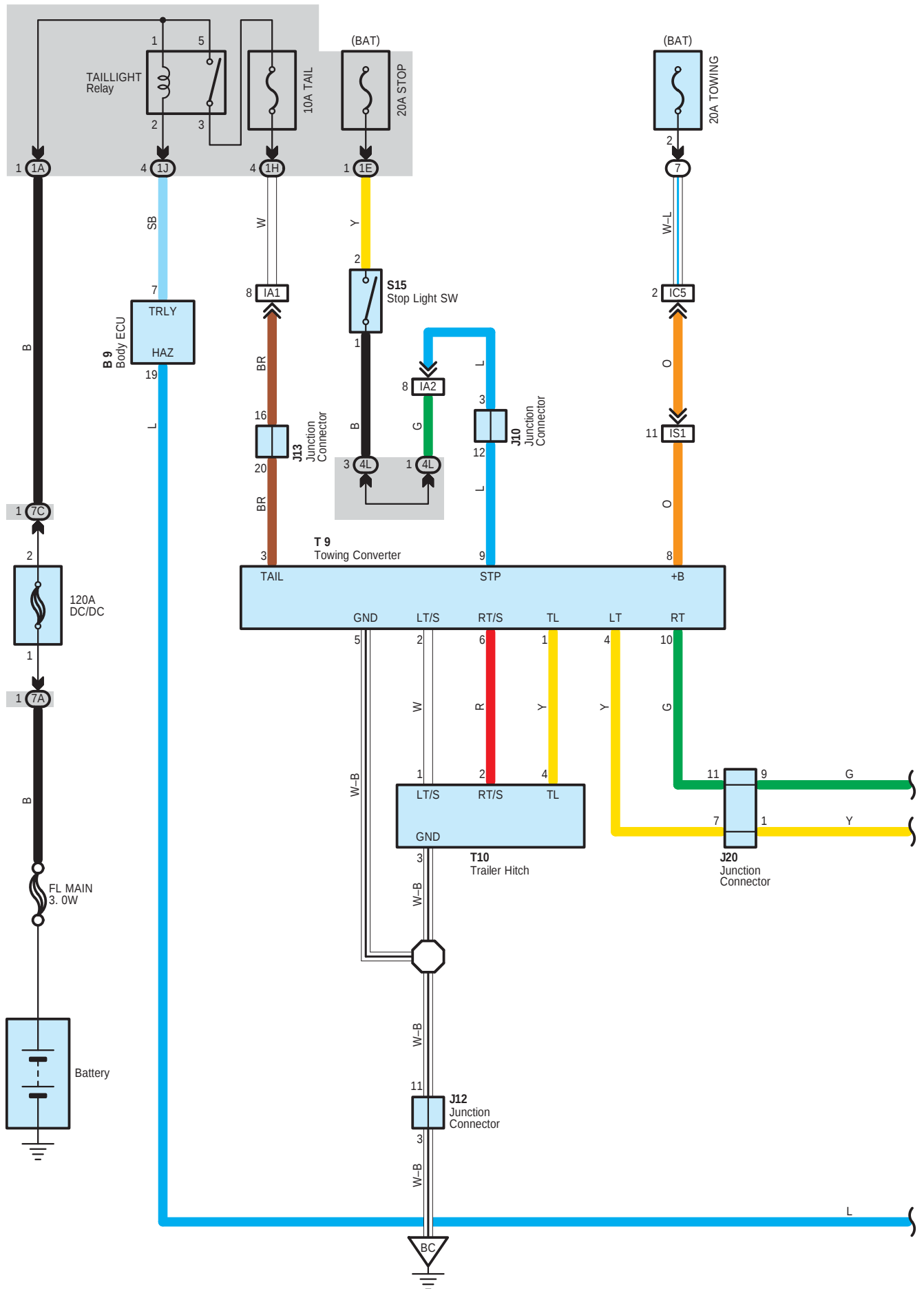
□ : Connector Joining Wire Harness and Wire Harness

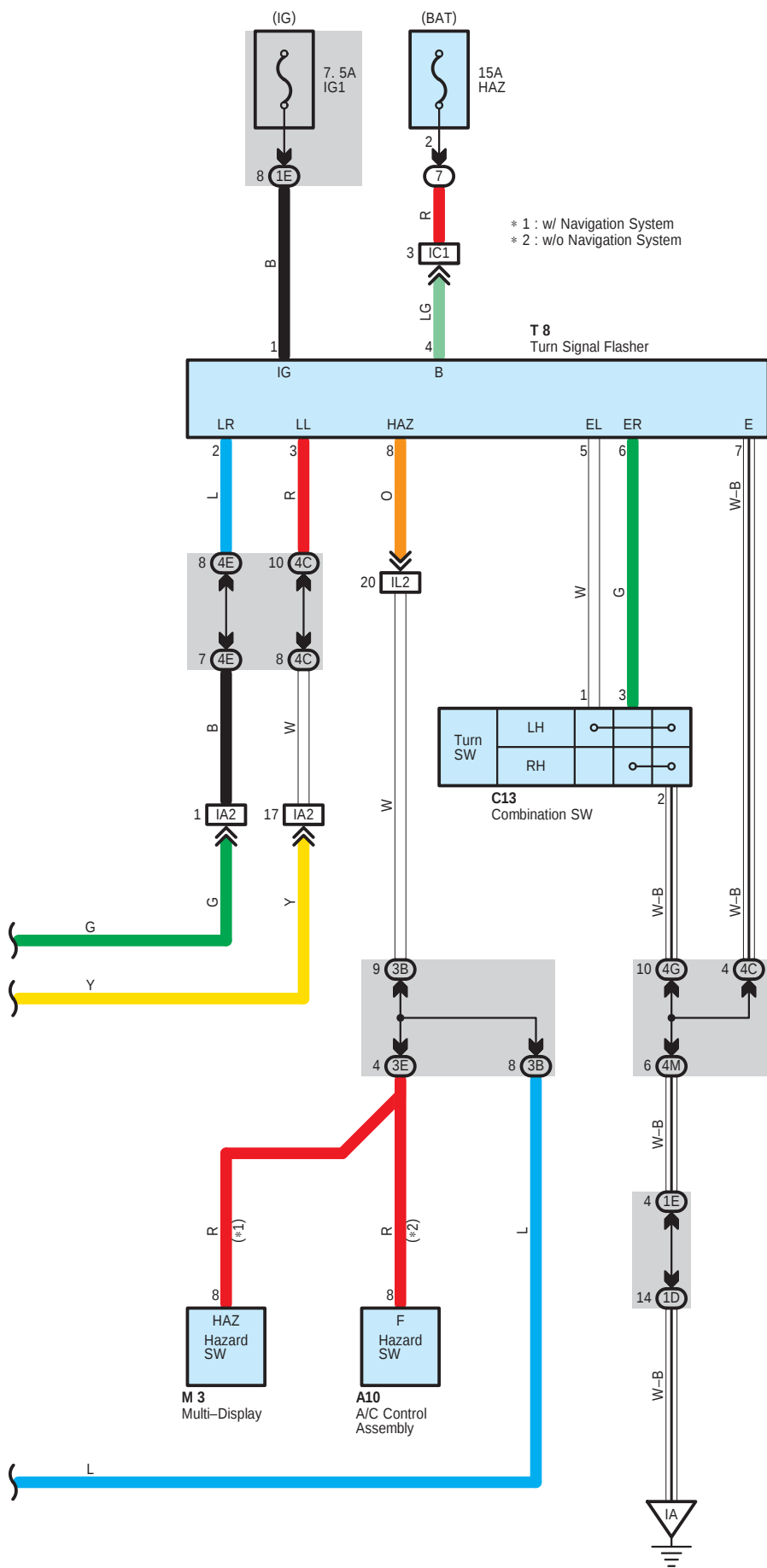
Code	See Page	Joining Wire Harness and Wire Harness (Connector Location)
IA1	54	Cowl Wire and Floor No.2 Wire (Left Kick Panel)
IK3	55	Engine Room Main Wire and Cowl Wire (Right Cowl Side Panel)

▽ : Ground Points

Code	See Page	Ground Points Location
IC	54	Right Cowl Side Panel

Trailer Towing





Trailer Towing

: Parts Location

Code	See Page	Code	See Page	Code	See Page
A10	44	J12	46	S15	45
B9	44	J13	46	T8	45
C13	44	J20	46	T9	47
J10	46	M3	45	T10	47

: Relay Blocks

Code	See Page	Relay Blocks (Relay Block Location)
7	24	Fusible Link Block (Engine Compartment Left)

: Junction Block and Wire Harness Connector

Code	See Page	Junction Block and Wire Harness (Connector Location)
1A	31	Engine Room Main Wire and Instrument Panel J/B (Lower Finish Panel)
1D	31	Cowl Wire and Instrument Panel J/B (Lower Finish Panel)
1E		
1H		
1J		
3B	34	Instrument Panel Wire and J/B No.3 (Behind the Instrument Panel Center)
3E		
4C	39	Cowl Wire and J/B No.4 (Right Side of Glove Box)
4E		
4G		
4L	38	
4M		
7A	24	Engine Room Main Wire and Fusible Link Block (Engine Compartment Left)
7C		

: Connector Joining Wire Harness and Wire Harness

Code	See Page	Joining Wire Harness and Wire Harness (Connector Location)
IA1	54	Cowl Wire and Floor No.2 Wire (Left Kick Panel)
IA2		
IC1	54	Engine Room Main Wire and Cowl Wire (Left Cowl Side Panel)
IC5		
IL2	55	Instrument Panel Wire and Cowl Wire (Right Cowl Side Panel)
IS1	55	Floor No.2 Wire and Cowl Wire (Left Kick Panel)

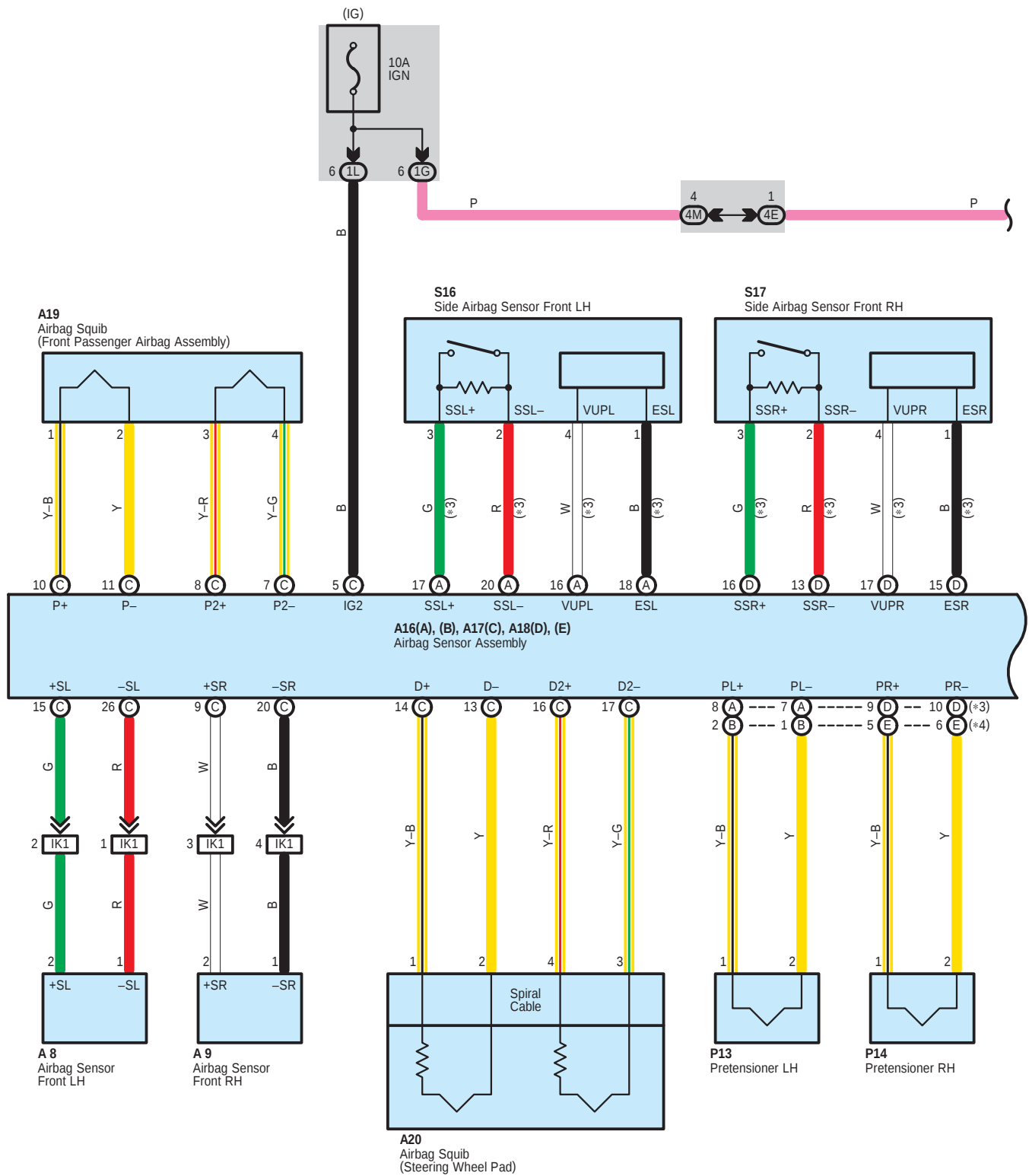
: Ground Points

Code	See Page	Ground Points Location
IA	54	Left Cowl Side Panel
BC	56	Left Side of Rear Cross Member

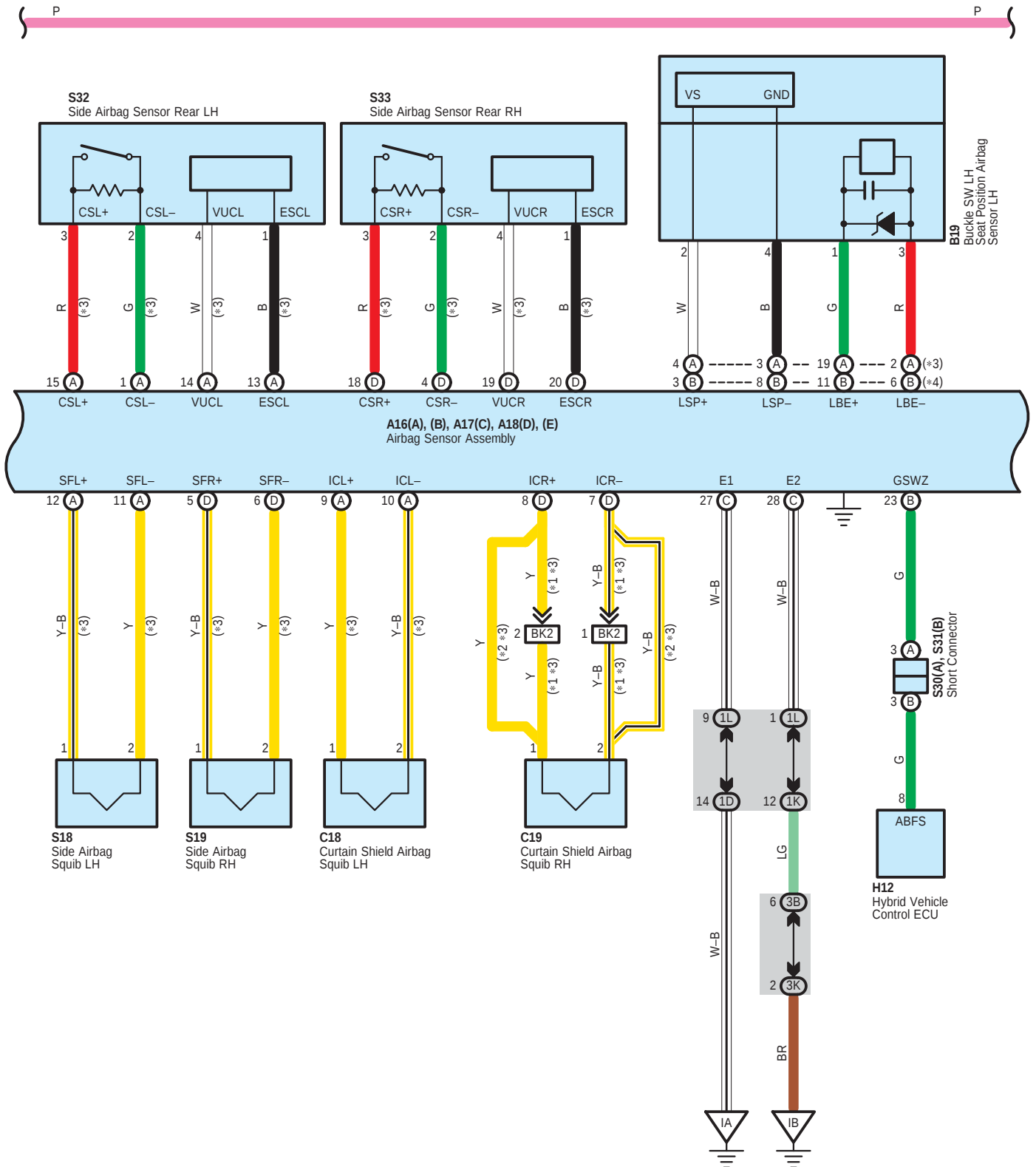
NOTICE: When inspecting or repairing the SRS, perform service in accordance with the following precautionary instructions and the procedure, and precautions in the Repair Manual applicable for the model year.

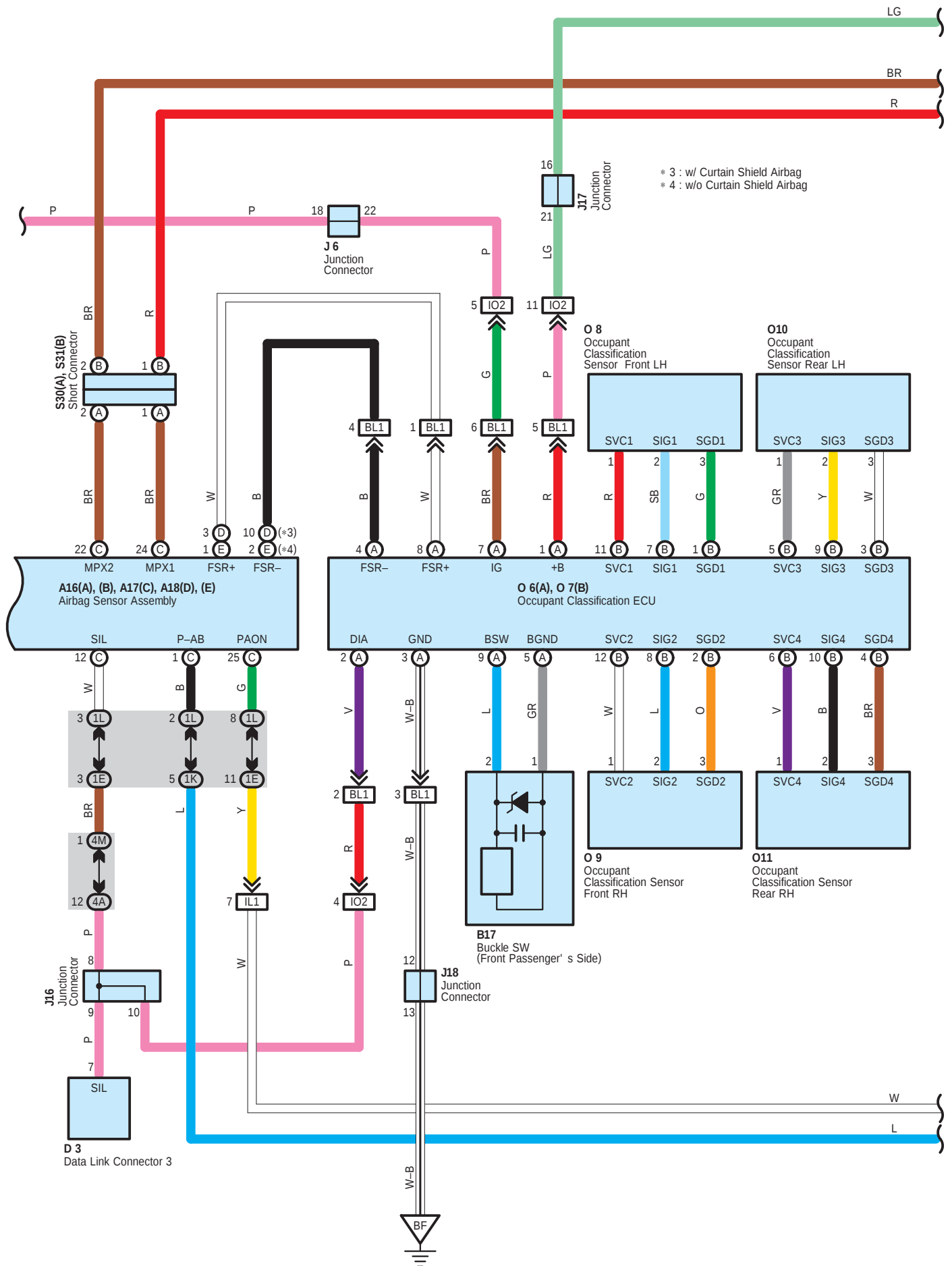
- Malfunction symptoms of the SRS are difficult to confirm, so the DTCs become the most important source of information when troubleshooting. When troubleshooting the SRS, always inspect the DTCs before disconnecting the battery.
- **Work must be started more than 90 seconds after the ignition SW is 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.

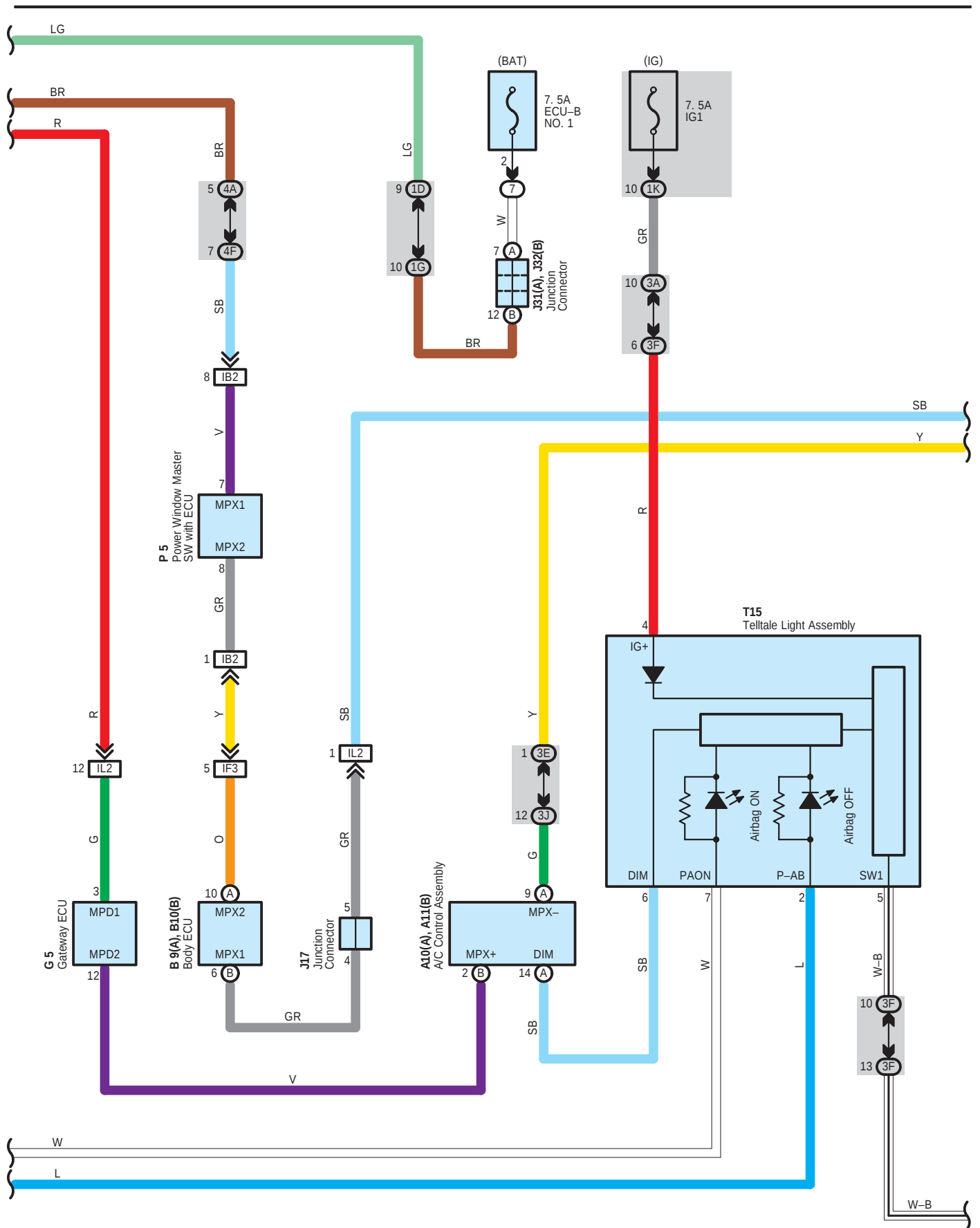
- * Steering wheel pad
- * Front passenger airbag assembly
- * Side airbag assembly
- * Curtain shield airbag assembly
- * Seat belt pretensioner
- * Center airbag sensor assembly
- * Front airbag sensor assembly
- * Side airbag sensor assembly
- * Rear airbag sensor assembly

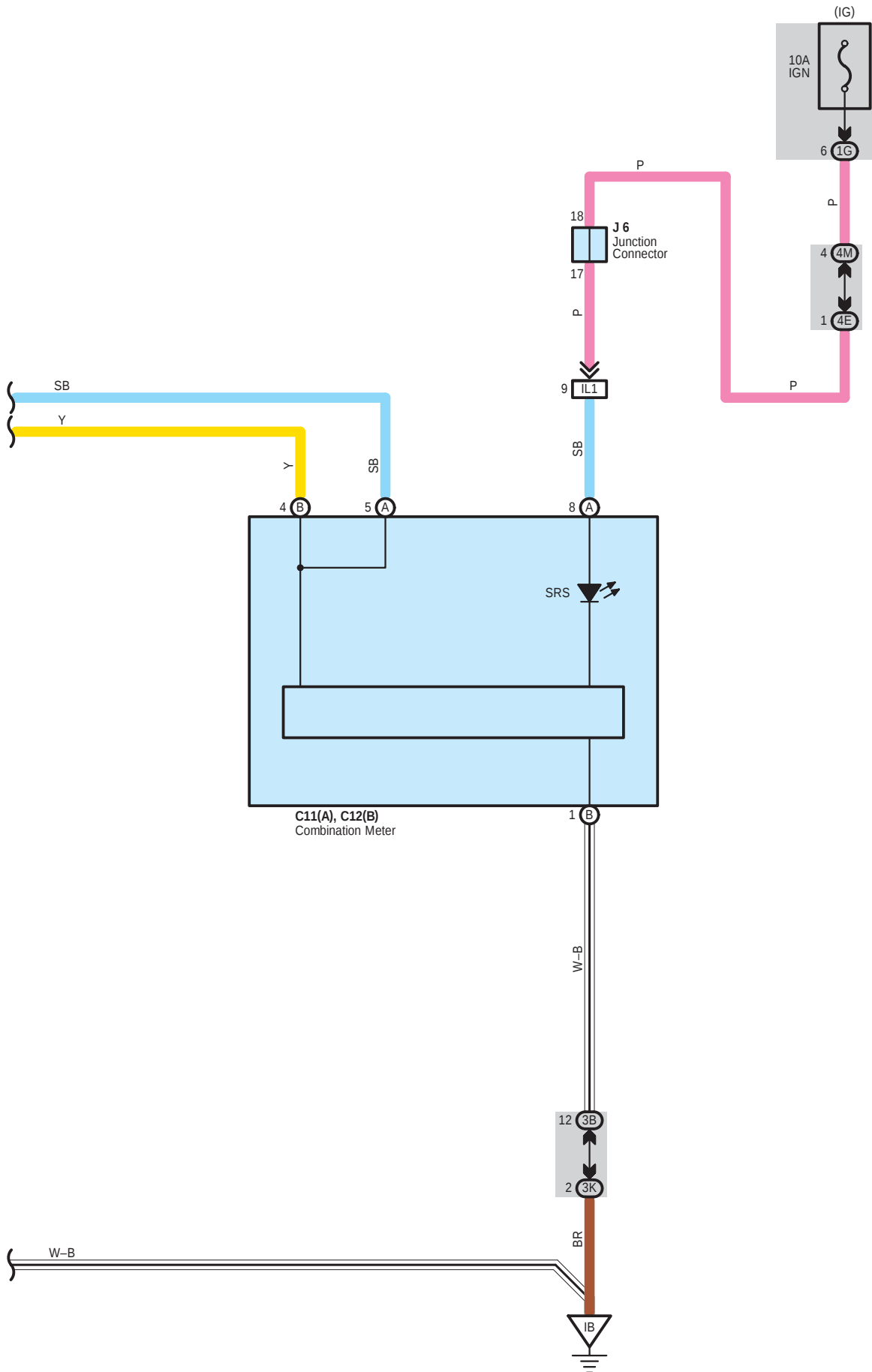


- * 1 : w/ Rear Seat Entertainment System
- * 2 : w/o Rear Seat Entertainment System
- * 3 : w/ Curtain Shield Airbag
- * 4 : w/o Curtain Shield Airbag









System Outline

The SRS is a driver and front passenger protection device which has a supplemental role to the seat belts.

When the ignition SW is turned to ON, the current from the IGN fuse flows to TERMINAL IG2 of the airbag sensor assembly.

If an accident occurs while driving, when the frontal impact exceeds a set level, the current from the IGN fuse flows to TERMINALS D+, D2+, P+, P2+, PL+ and PR+ of the airbag sensor assembly to the airbag squibs and the pretensioners to TERMINALS D-, D2-, P-, P2-, PL- and PR- of the airbag sensor assembly to TERMINAL E1, E2 or BODY GROUND to GROUND, so that current flows to the airbag squibs and the pretensioners and causes them to operate.

When the side impact also exceeds a set level, the current from the IGN fuse flows to TERMINALS SFL+, SFR+, ICL+ and ICR+ of the airbag sensor assembly to the side airbag squibs and the curtain shield airbag squibs TERMINALS SFL-, SFR-, ICL- and ICR- of the airbag sensor assembly to TERMINAL E1, E2 or BODY GROUND to GROUND, causing side airbag squibs and curtain shield airbag squibs to operate.

The airbag stored inside the steering wheel pad is instantaneously expanded to soften the shock to the driver.

The airbag stored inside the passenger's instrument panel is instantaneously expanded to soften the shock to the front passenger.

Side airbags are instantaneously expanded to soften the shock of side to the driver and front passenger.

The curtain shield airbag can ease an impact on the head of the front and rear passengers and reduce risks of injury.

In a head-on crash, the driver moves forward and may strike his/her lower limbs against the instrument panel, the key cylinder, etc.

The pretensioners make sure of the seat belt restrainability.

○ : Parts Location

Code	See Page	Code	See Page	Code	See Page
A8	42	C18	46	O10	48 (*1)
A9	42	C19	46		49 (*2)
A10	A 44	D3	44	O11	48 (*1)
A11	B 44	G5	44		49 (*2)
A16	A 44	H12	44	P5	46
	B 44	J6	45	P13	46
A17	C 44	J16	45	P14	46
A18	D 44	J17	45	S16	47
	E 44	J18	46	S17	47
A19	44	J31	A 45	S18	48 (*1)
A20	44	J32	B 45		49 (*2)
B9	A 44	O6	A	S19	48 (*1)
B10	B 44				49 (*2)
B17	48 (*1)	O7	B	S30	A 45
	49 (*2)			S31	B 45
B19	48 (*1)	O8		S32	47
	49 (*2)			S33	47
C11	A 44	O9		T15	45
C12	B 44				

○ : Relay Blocks

Code	See Page	Relay Blocks (Relay Block Location)
7	24	Fusible Link Block (Engine Compartment Left)

* 1 : w/ Power Seat * 2 : w/o Power Seat



: Junction Block and Wire Harness Connector

Code	See Page	Junction Block and Wire Harness (Connector Location)
1D	31	Cowl Wire and Instrument Panel J/B (Lower Finish Panel)
1E		
1G		
1K	30	Instrument Panel Wire and Instrument Panel J/B (Lower Finish Panel)
1L	31	Cowl Wire and Instrument Panel J/B (Lower Finish Panel)
3A	34	Instrument Panel Wire and J/B No.3 (Behind the Instrument Panel Center)
3B		
3E		
3F		
3J	35	
3K		
4A	39	Cowl Wire and J/B No.4 (Right Side of Glove Box)
4E		
4F		
4M	38	



: Connector Joining Wire Harness and Wire Harness

Code	See Page	Joining Wire Harness and Wire Harness (Connector Location)
IB2	54	Front Door LH Wire and Cowl Wire (Left Kick Panel)
IF3	54	Instrument Panel Wire and Cowl Wire (Right Side of Instrument Panel J/B)
IK1	55	Engine Room Main Wire and Cowl Wire (Right Cowl Side Panel)
IL1	55	Instrument Panel Wire and Cowl Wire (Right Cowl Side Panel)
IL2		
IO2	55	Cowl Wire and Floor Wire (Right Kick Panel)
BK2	56	Roof No.2 Wire and Floor Wire (Right Rear Quarter Panel)
BL1	58 (*1)	Floor Wire and Front Seat RH Wire (Under the Front Passenger's Seat)
	59 (*2)	

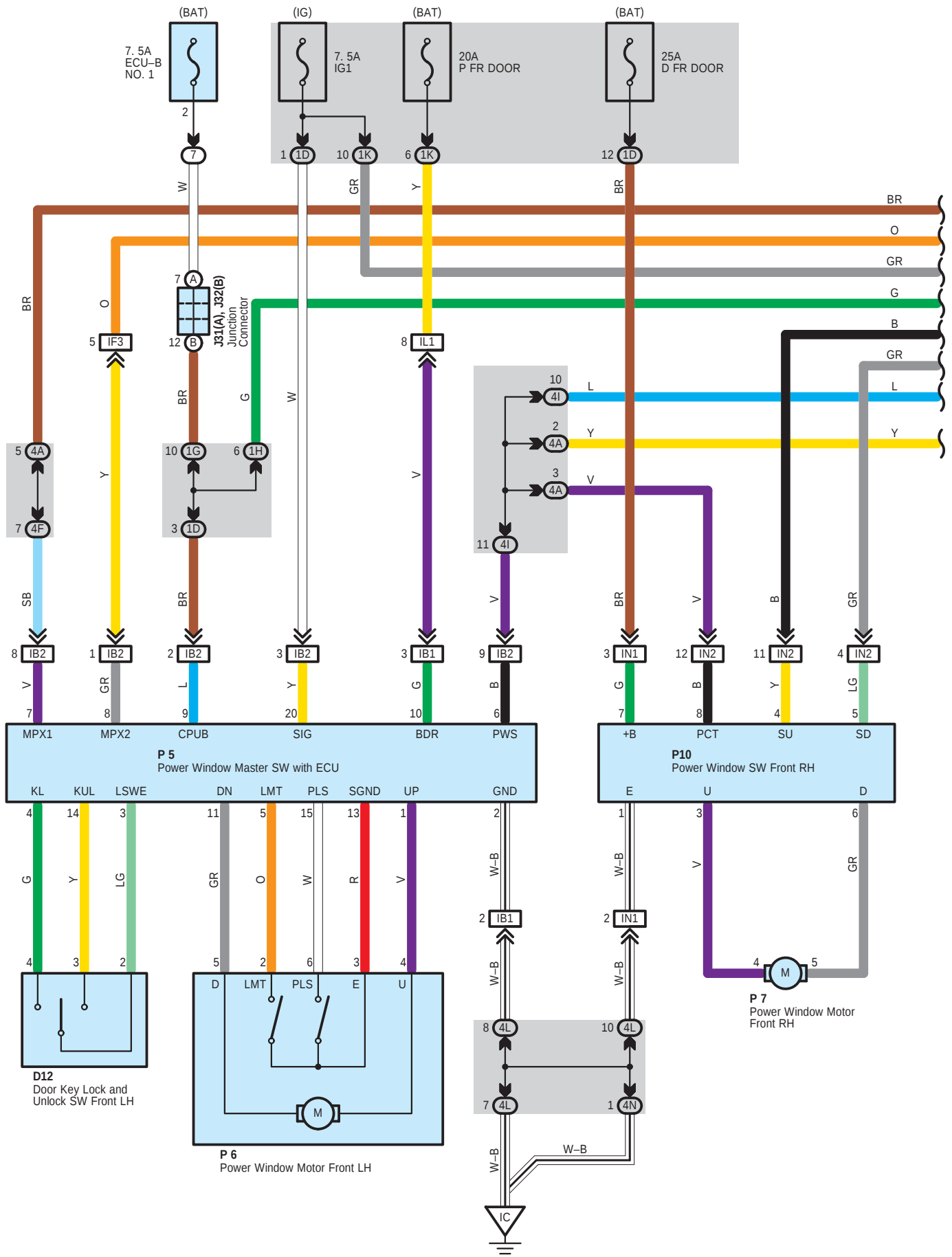


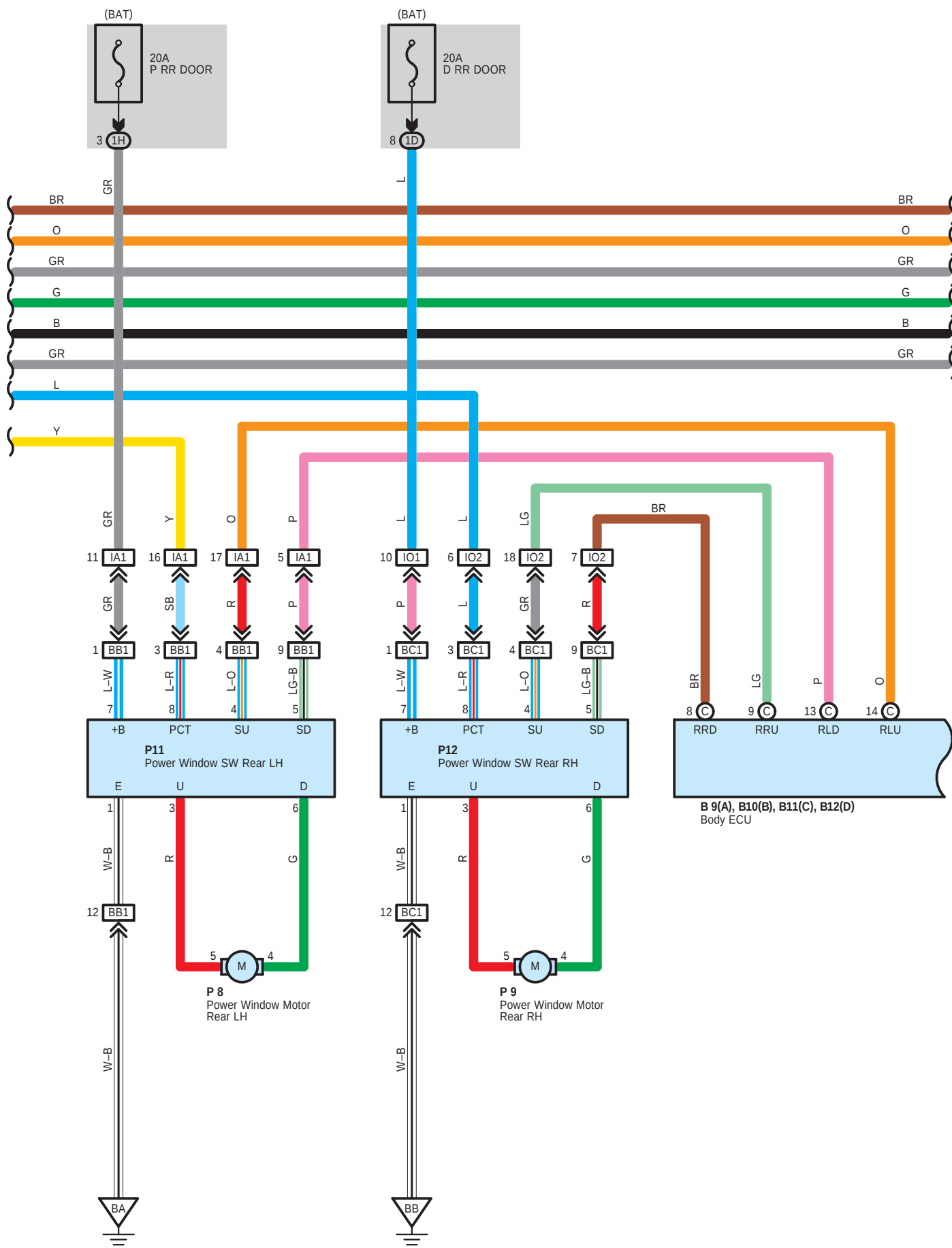
: Ground Points

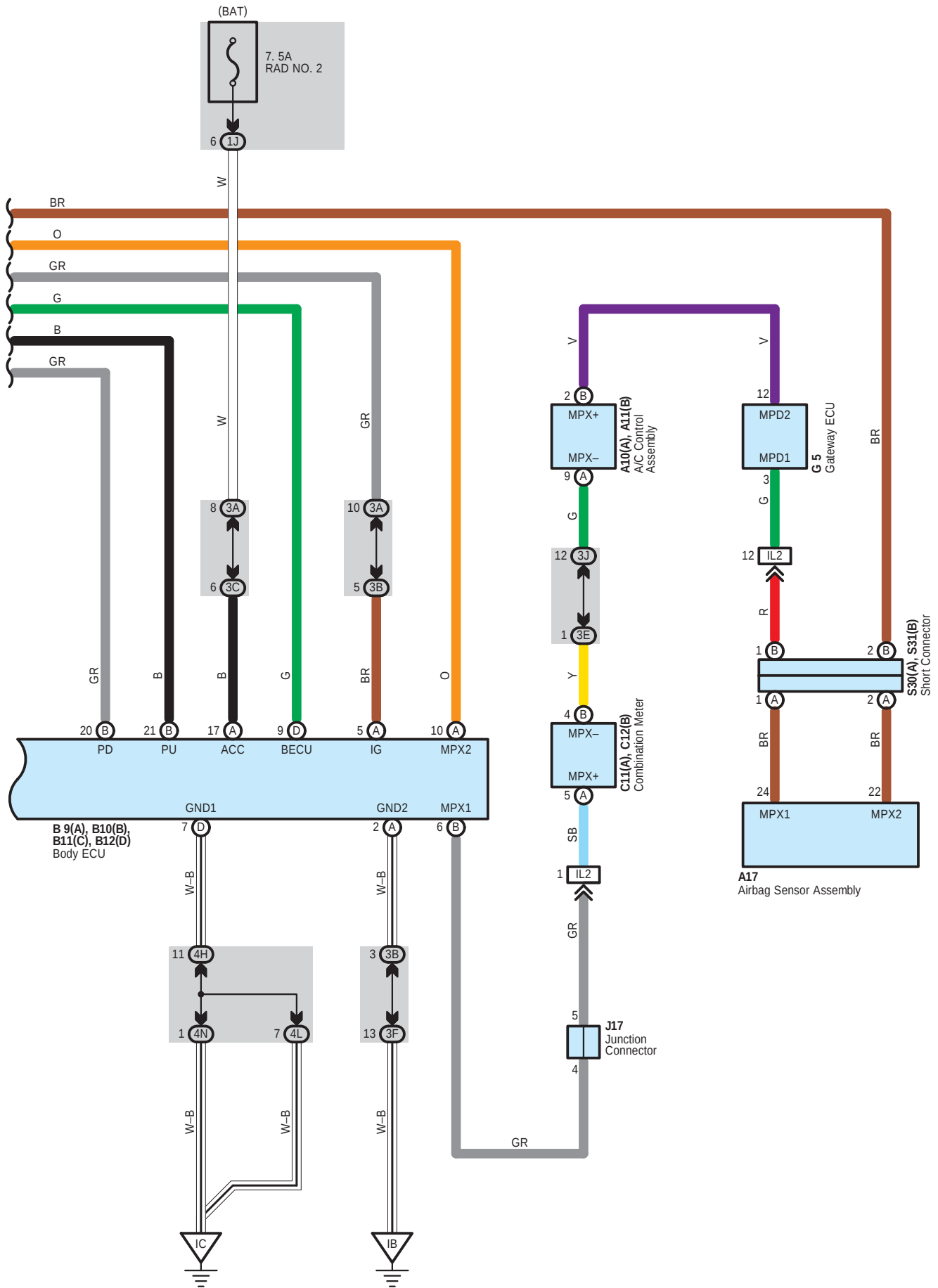
Code	See Page	Ground Points Location
IA	54	Left Cowl Side Panel
IB	54	Right Instrument Panel Brace
BF	56	Near the Rear Side Marker Light RH

* 1 : w/ Power Seat * 2 : w/o Power Seat

Power Window







System Outline

Communication between power window master SW and body ECU is controlled and body ECU recognizes the conditions of each SW to control the operation of windows.

1. Manual Up or Down Operation (Driver's Window, Passenger's Window)

During you are pushing power window master SW (Driver side) halfway down, the motor operates and the window on the driver's side opens. During you are pulling power window master SW (Driver side) halfway up, the motor operates and the windows on the driver's side closes. The window on the passenger's side opens or closes by pushing down or pulling up power window master SW (Front passenger, rear passenger) or power window SW front RH, rear LH, RH.

2. Auto Up or Down Operation (Driver's Window)

When the power window master SW (Driver side) is fully pushed down, the motor operates and the window on the driver's side automatically opens. When the power window master SW (Driver side) is fully pulled up, the motor operates and the window on the driver's side automatically closes.

3. Stopping Automatic Window Operation

If you push the power window master SW (Driver side) halfway down during the window on the driver's side is raising automatically, the motor's operation stops. And if you pull the power window master SW (Driver side) halfway up during the window on the driver's side is lowering automatically, the motor's operation stops.

4. Key Off Power Window Operation

After the ignition SW is turned off, the windows can be operated for about 43 seconds. However, the window operation stops when either front doors opens.

5. Jam Protection Function (Driver's Window)

When any foreign object gets caught during power window UP operation, the motor rotates in the opposite direction to open the window.

○ : Parts Location

Code	See Page	Code	See Page	Code	See Page
A10	A 44	C12	B 44	P7	46
A11	B 44	D12	46	P8	46
A17	44	G5	44	P9	46
B9	A 44	J17	45	P10	46
B10	B 44	J31	A 45	P11	46
B11	C 44	J32	B 45	P12	46
B12	D 44	P5	46	S30	A 45
C11	A 44	P6	46	S31	B 45

○ : Relay Blocks

Code	See Page	Relay Blocks (Relay Block Location)
7	24	Fusible Link Block (Engine Compartment Left)

Power Window



: Junction Block and Wire Harness Connector

Code	See Page	Junction Block and Wire Harness (Connector Location)
1D	31	Cowl Wire and Instrument Panel J/B (Lower Finish Panel)
1G		
1H		
1J	30	Instrument Panel Wire and Instrument Panel J/B (Lower Finish Panel)
1K		
3A	34	Instrument Panel Wire and J/B No.3 (Behind the Instrument Panel Center)
3B		
3C		
3E		
3F		
3J	35	
4A	39	Cowl Wire and J/B No.4 (Right Side of Glove Box)
4F		
4H		
4I	38	
4L		
4N		



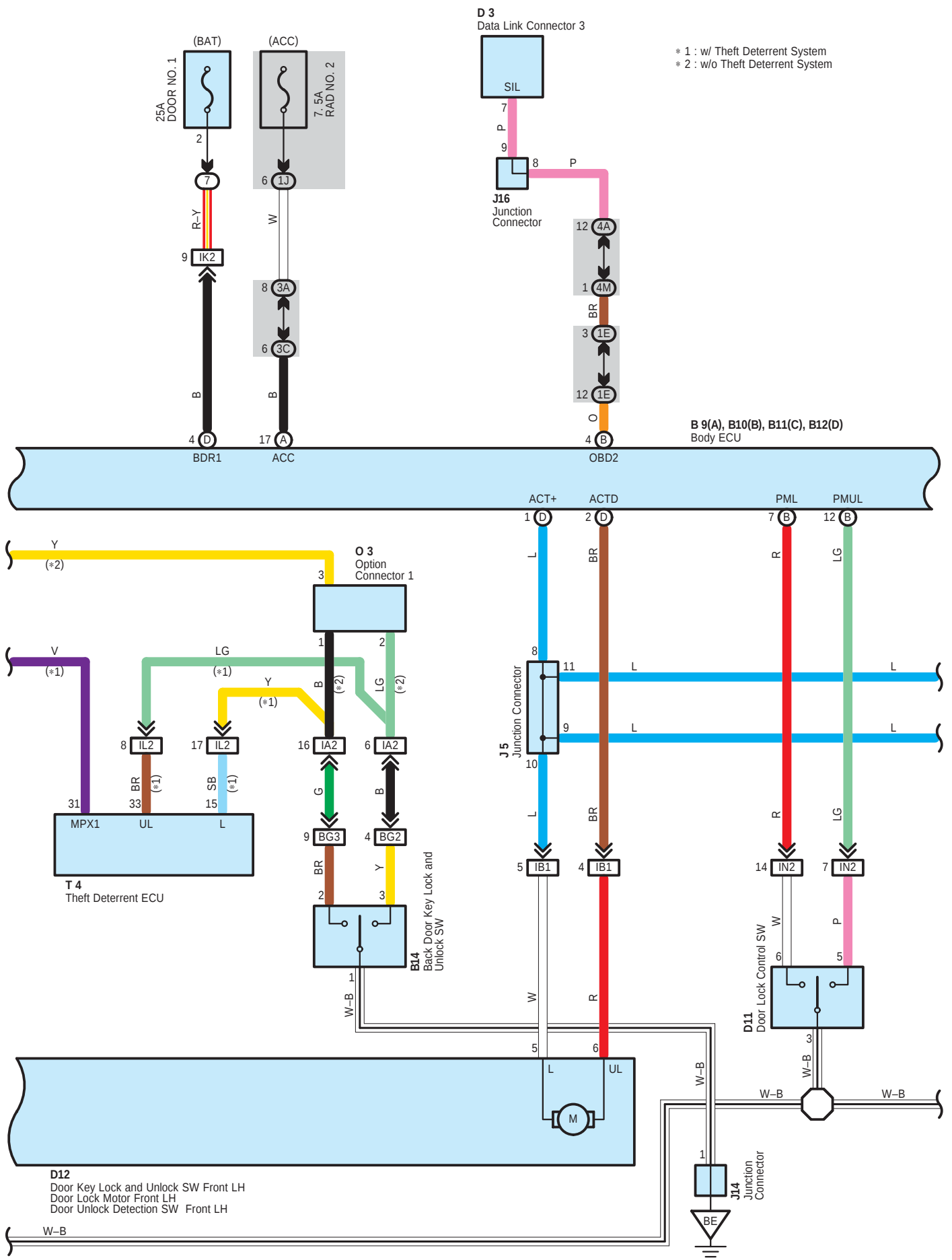
: Connector Joining Wire Harness and Wire Harness

Code	See Page	Joining Wire Harness and Wire Harness (Connector Location)
IA1	54	Cowl Wire and Floor No.2 Wire (Left Kick Panel)
IB1	54	Front Door LH Wire and Cowl Wire (Left Kick Panel)
IB2		
IF3	54	Instrument Panel Wire and Cowl Wire (Right Side of Instrument Panel J/B)
IL1	55	Instrument Panel Wire and Cowl Wire (Right Cowl Side Panel)
IL2		
IN1	55	Front Door RH Wire and Cowl Wire (Right Kick Panel)
IN2		
IO1	55	Cowl Wire and Floor Wire (Right Kick Panel)
IO2		
BB1	56	Rear Door No.1 LH Wire and Floor No.2 Wire (Left Center Pillar)
BC1	56	Rear Door No.1 RH Wire and Floor Wire (Right Center Pillar)

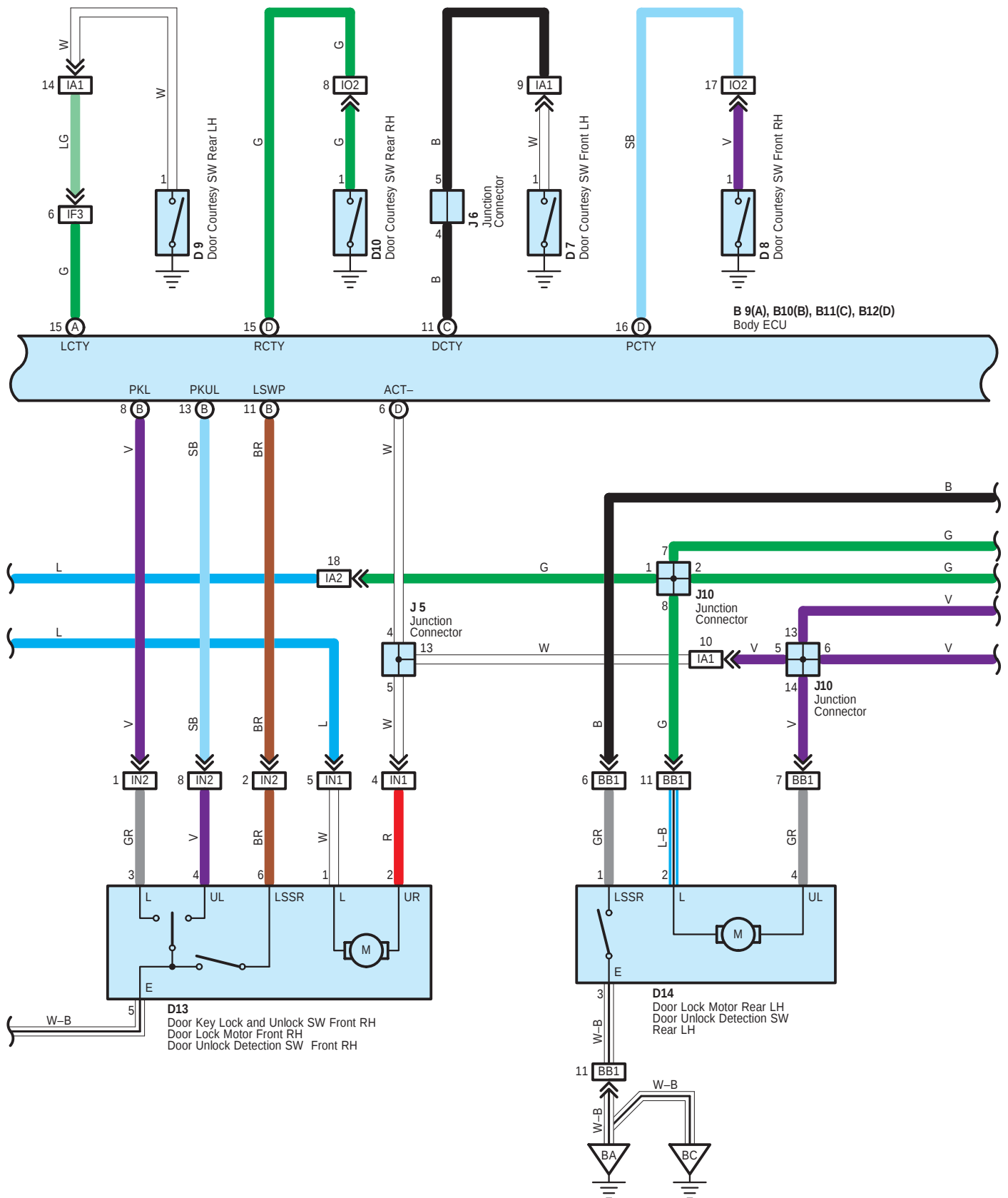


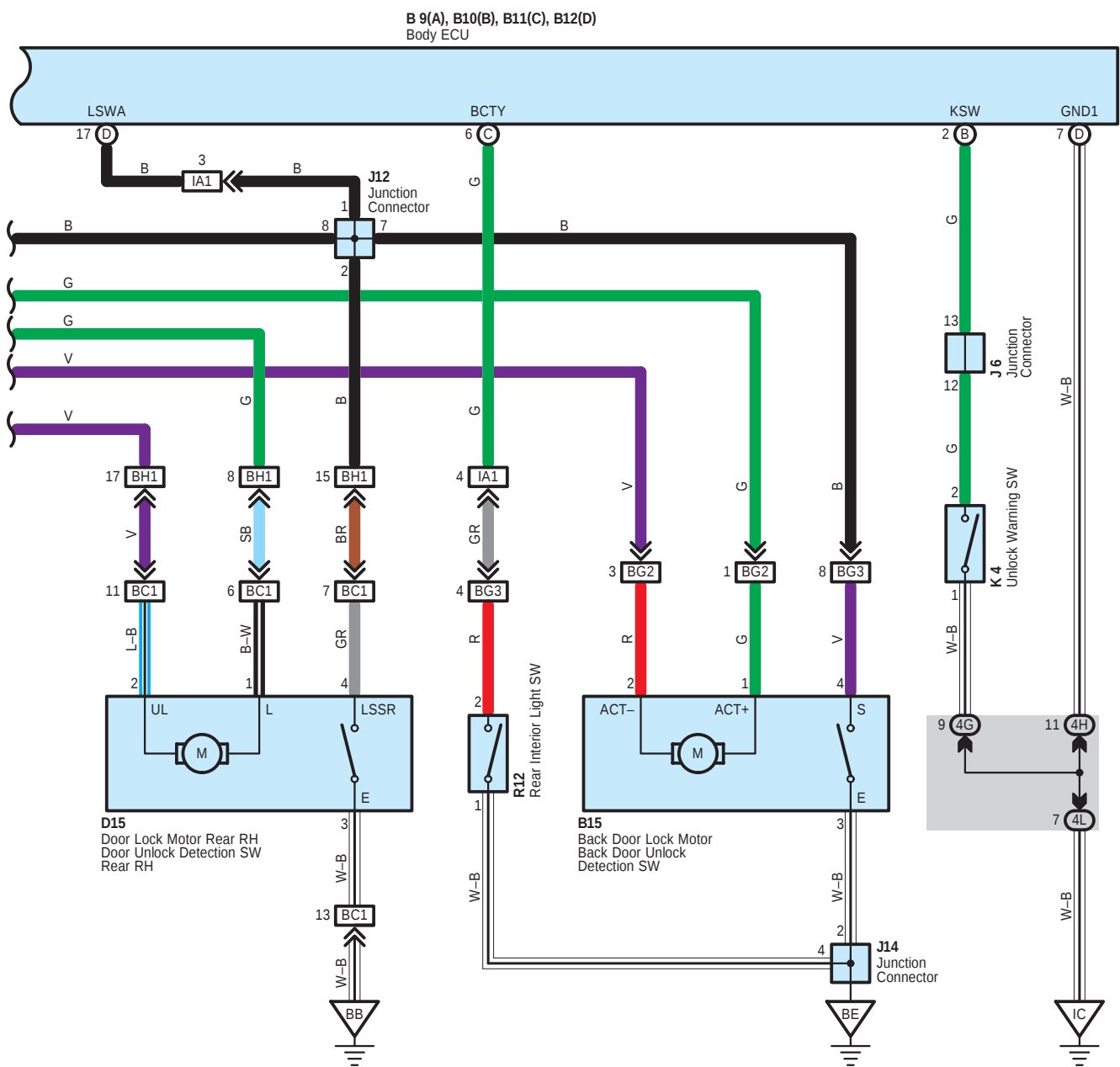
: Ground Points

Code	See Page	Ground Points Location
IB	54	Right Instrument Panel Brace
IC	54	Right Cowl Side Panel
BA	56	Left Center Pillar
BB	56	Right Center Pillar



Door Lock Control





Door Lock Control

System Outline

The door lock control is controlled through the various signals input into the body ECU through communication control of the body ECU etc.

1. Manual Operation

All doors can be Locked/Unlocked through the operation of the driver and passenger side door lock control SW.

2. Double Operation Unlock Operation

When the door key lock and unlock SW front LH is turned to the unlock side, only the driver's door is unlocked. And if the door key lock and unlock SW front LH is turned to the unlock side again within 3 seconds, all the doors to unlock.

3. Manual Unlock Protection

Once the doors are locked by the door knob (Key less operation), the door key or the transmitter, they can not be unlocked by the door lock control SW. The protection is canceled when the ignition SW is turned on or unlock operation is made by the door key or the transmitter.

4. Ignition Key Reminder Operation

When the door lock operation is made using the door knob with the ignition key remained inserted in the key cylinder and the door open, unlock operation is automatically made. Additionally, if lock operation is made with the door lock control SW or door key lock and unlock SW, unlock operation is automatically made after the lock operation has been completed.

○ : Parts Location

Code		See Page	Code		See Page	Code		See Page
A10	A	44	D8	46		J14		46
A11	B	44	D9	46		J16		45
A17		44	D10	46		J17		45
B9	A	44	D11	46		J31	A	45
B10	B	44	D12	46		J32	B	45
B11	C	44	D13	46		K4		45
B12	D	44	D14	46		O3		45
B14		46	D15	46		P5		46
B15		46	G5	44		R12		47
C11	A	44	J5	45		S30	A	45
C12	B	44	J6	45		S31	B	45
D3		44	J10	46		T4		45
D7		46	J12	46				

○ : Relay Blocks

Code	See Page	Relay Blocks (Relay Block Location)
7	24	Fusible Link Block (Engine Compartment Left)

**: Junction Block and Wire Harness Connector**

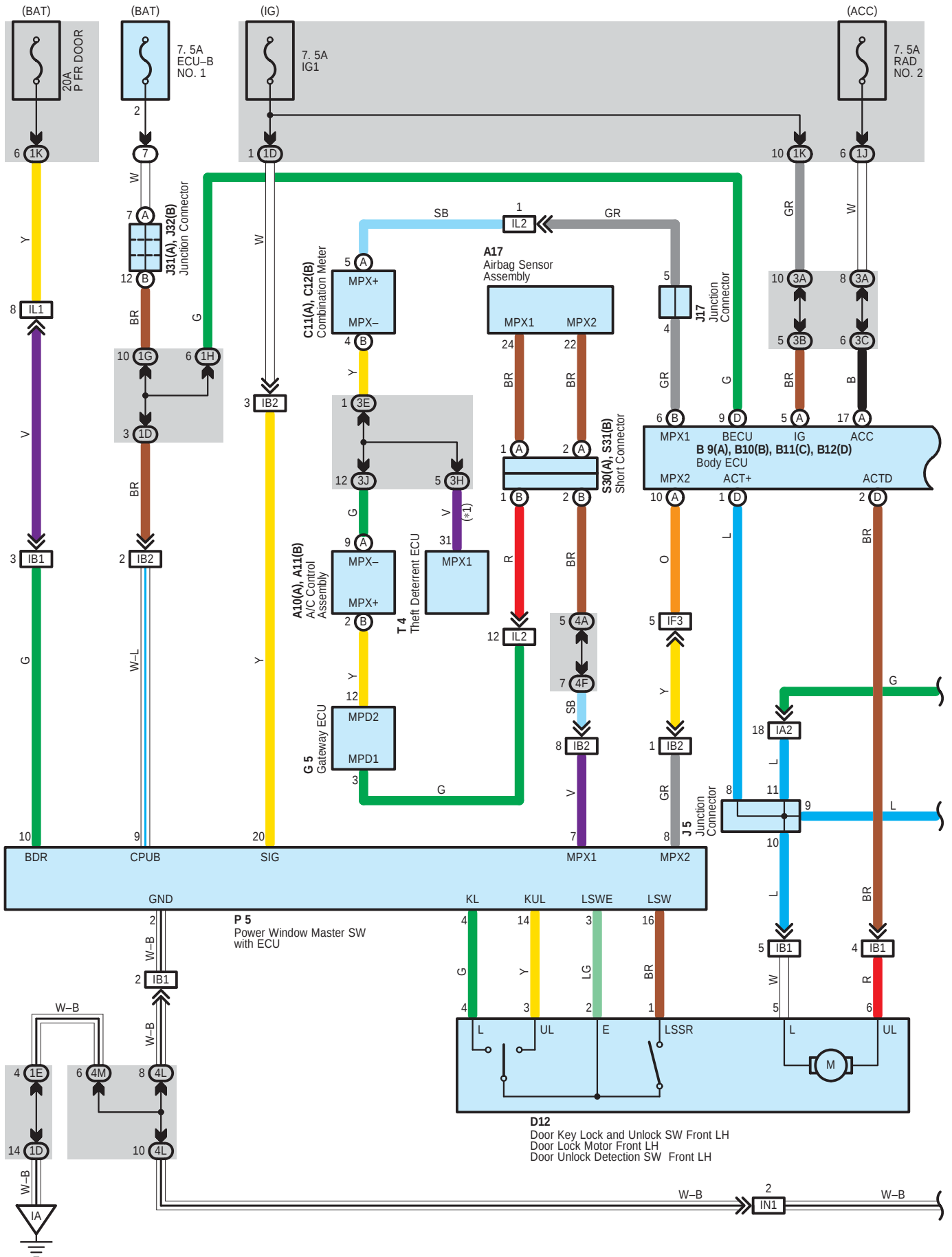
Code	See Page	Junction Block and Wire Harness (Connector Location)
1D	31	Cowl Wire and Instrument Panel J/B (Lower Finish Panel)
1E		
1G		
1H		
1J	30	Instrument Panel Wire and Instrument Panel J/B (Lower Finish Panel)
1K		
3A	34	Instrument Panel Wire and J/B No.3 (Behind the Instrument Panel Center)
3B		
3C		
3E		
3H	35	
3J		
4A	39	Cowl Wire and J/B No.4 (Right Side of Glove Box)
4F		
4G		
4H		
4L	38	
4M		
4O		

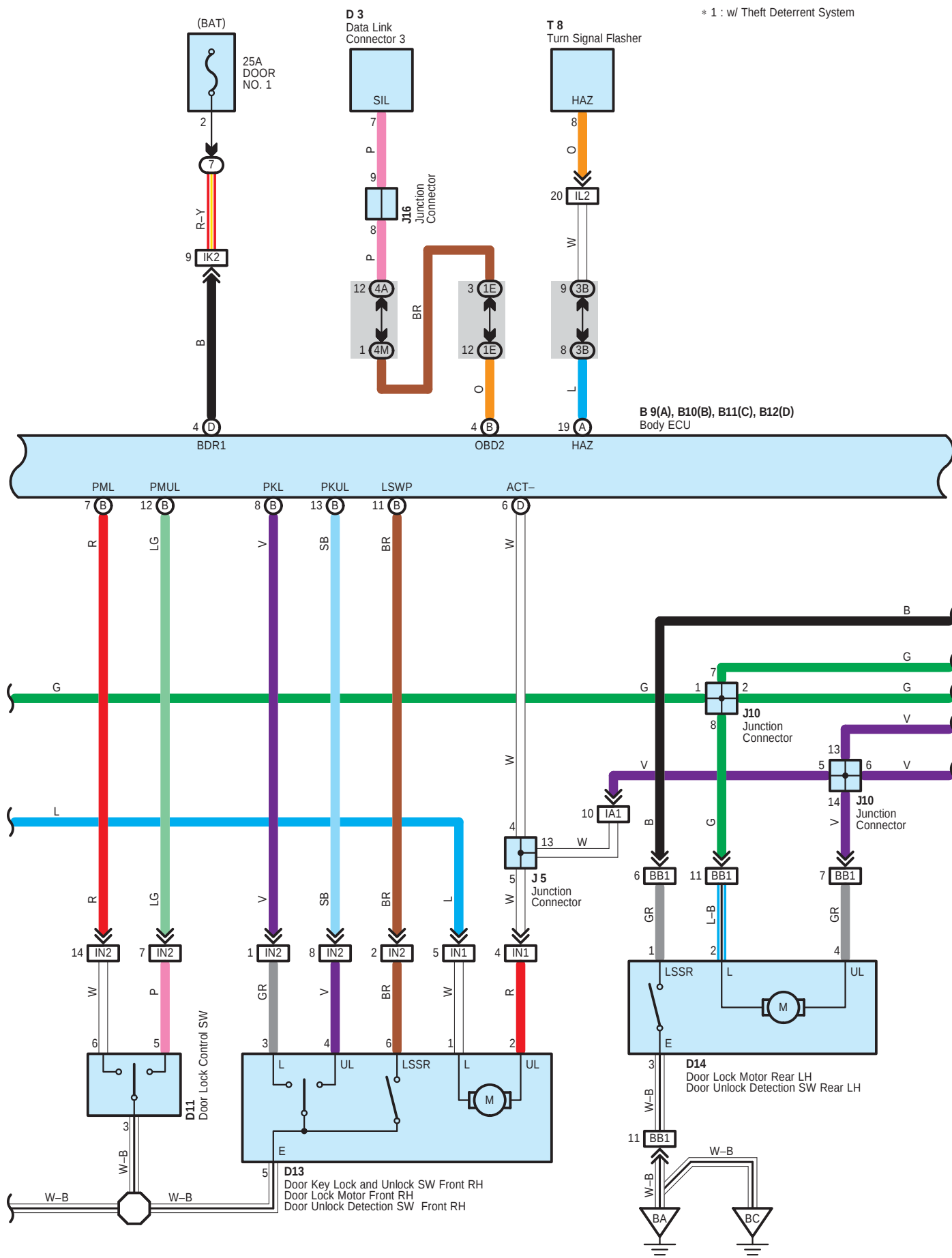
**: Connector Joining Wire Harness and Wire Harness**

Code	See Page	Joining Wire Harness and Wire Harness (Connector Location)
IA1	54	Cowl Wire and Floor No.2 Wire (Left Kick Panel)
IA2		
IB1	54	Front Door LH Wire and Cowl Wire (Left Kick Panel)
IB2		
IF3	54	Instrument Panel Wire and Cowl Wire (Right Side of Instrument Panel J/B)
IK2	55	Engine Room Main Wire and Cowl Wire (Right Cowl Side Panel)
IL1	55	Instrument Panel Wire and Cowl Wire (Right Cowl Side Panel)
IL2		
IN1	55	Front Door RH Wire and Cowl Wire (Right Kick Panel)
IN2		
IO2	55	Cowl Wire and Floor Wire (Right Kick Panel)
BB1	56	Rear Door No.1 LH Wire and Floor No.2 Wire (Left Center Pillar)
BC1	56	Rear Door No.1 RH Wire and Floor Wire (Right Center Pillar)
BG2	56	Back Door No.1 Wire and Floor No.2 Wire (Rear Left of the Roof)
BG3		
BH1	56	Floor No.2 Wire and Floor Wire (Near the Rear Side Marker Light RH)

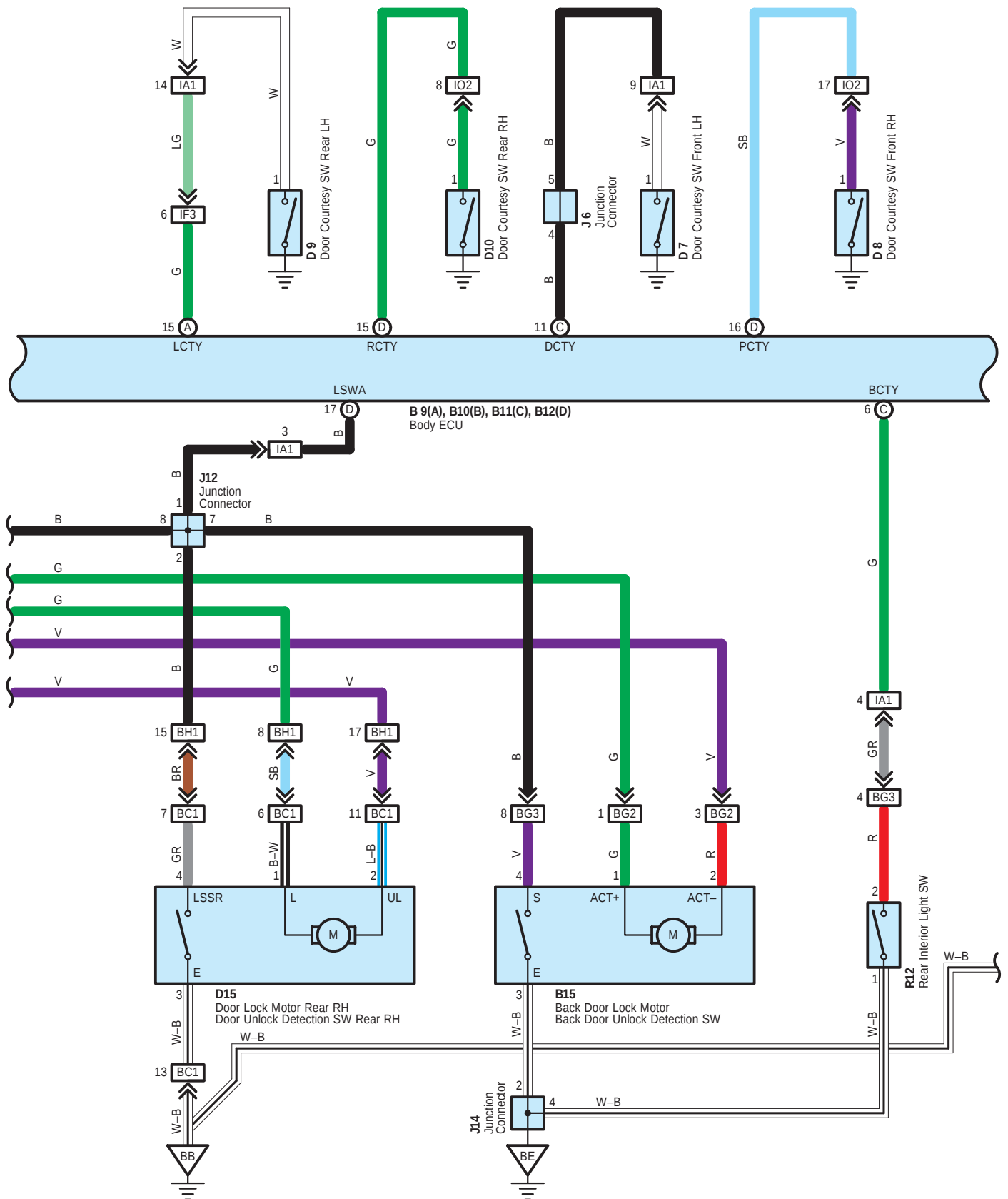
**: Ground Points**

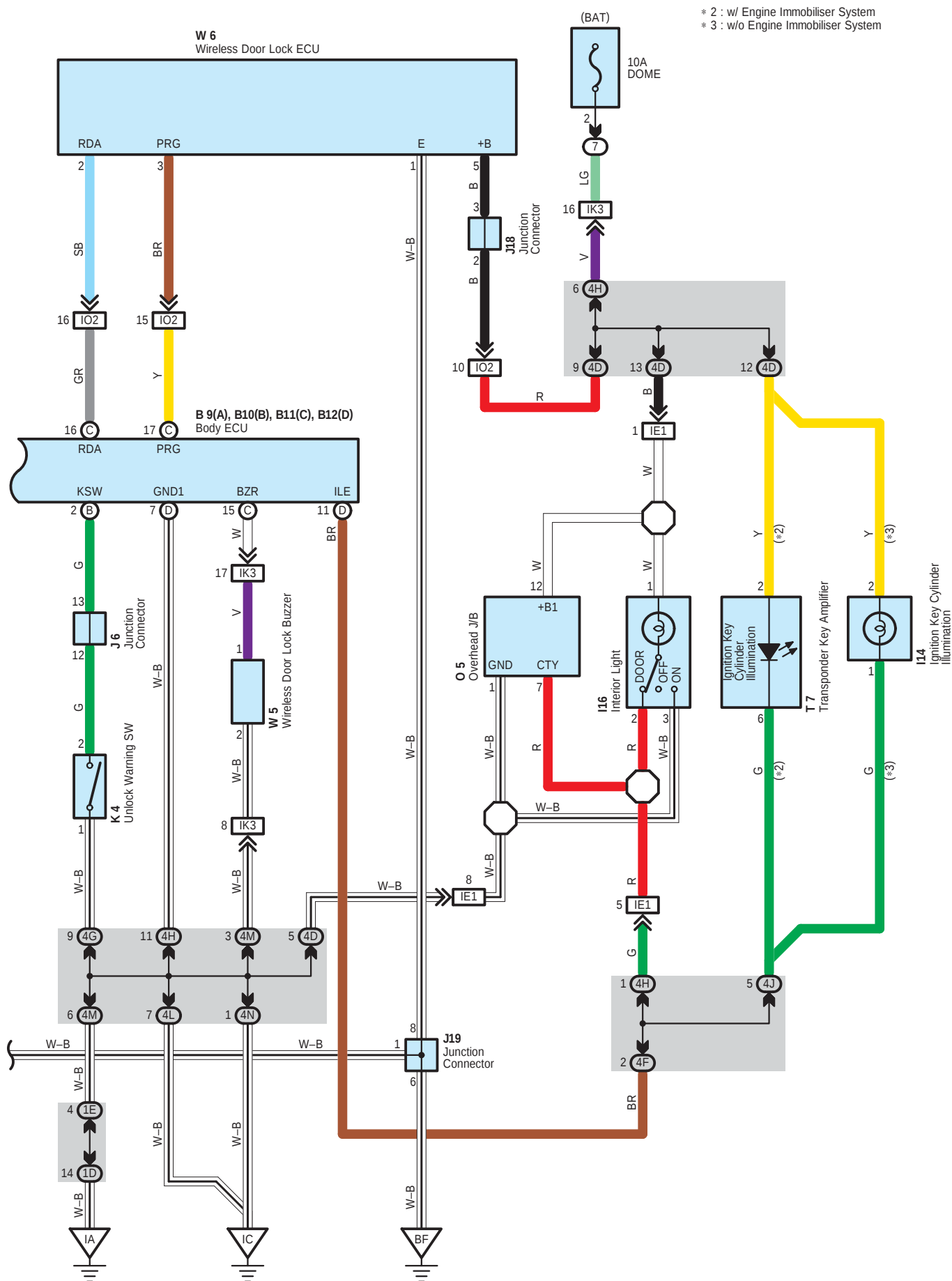
Code	See Page	Ground Points Location
IA	54	Left Cowl Side Panel
IC	54	Right Cowl Side Panel
BA	56	Left Center Pillar
BB	56	Right Center Pillar
BC	56	Left Side of Rear Cross Member
BE	56	Left Side of Back Door





Wireless Door Lock Control





Wireless Door Lock Control

System Outline

In this system, the wireless door lock ECU receives weak radio wave transmitted from the transmitter and outputs a signal to the body ECU. Accordingly, all the doors are 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

After all the doors are unlocked by pushing the UNLOCK SW of the transmitter, unless each of the doors is opened or the ignition key is inserted, all the doors are locked again.

3. 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

When doors are locked by using the transmitter, the hazard light flashes once. When doors are unlocked by using the transmitter, the hazard light flashes twice. If UNLOCK SW of the transmitter is pushed while all the doors are locked, doors are unlocked and the interior light and ignition key cylinder light are turned on simultaneously.

5. Panic Mode Function

When the panic SW on the transmitter is pressed, the panic mode is activated. The panic mode is canceled when the unlock SW or panic SW is pressed.

6. Repeat Function

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

○ : Parts Location

Code	See Page	Code	See Page	Code	See Page
A10	A 44	D11	46	J18	46
A11	B 44	D12	46	J19	46
A17	44	D13	46	J31	A 45
B9	A 44	D14	46	J32	B 45
B10	B 44	D15	46	K4	45
B11	C 44	G5	44	O5	46
B12	D 44	I14	44	P5	46
B15	46	I16	46	R12	47
C11	A 44	J5	45	S30	A 45
C12	B 44	J6	45	S31	B 45
D3	44	J10	46	T4	45
D7	46	J12	46	T7	45
D8	46	J14	46	T8	45
D9	46	J16	45	W5	43
D10	46	J17	45	W6	47

○ : Relay Blocks

Code	See Page	Relay Blocks (Relay Block Location)
7	24	Fusible Link Block (Engine Compartment Left)

**: Junction Block and Wire Harness Connector**

Code	See Page	Junction Block and Wire Harness (Connector Location)
1D	31	Cowl Wire and Instrument Panel J/B (Lower Finish Panel)
1E		
1G		
1H		
1J	30	Instrument Panel Wire and Instrument Panel J/B (Lower Finish Panel)
1K		
3A	34	Instrument Panel Wire and J/B No.3 (Behind the Instrument Panel Center)
3B		
3C		
3E		
3H	35	
3J		
4A	39	Cowl Wire and J/B No.4 (Right Side of Glove Box)
4D		
4F		
4G		
4H	38	
4J		
4L		
4M		
4N		

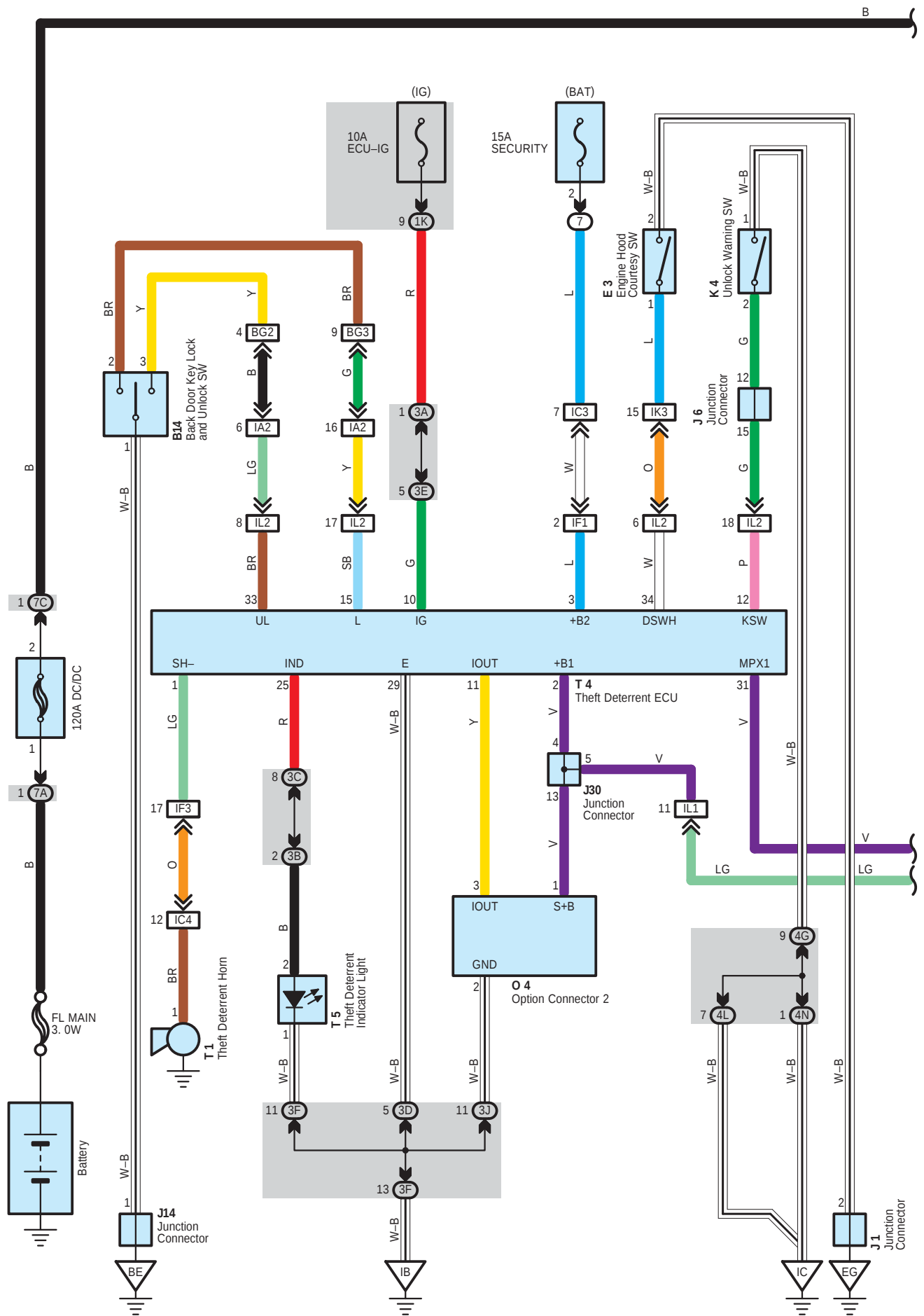
**: Connector Joining Wire Harness and Wire Harness**

Code	See Page	Joining Wire Harness and Wire Harness (Connector Location)
IA1	54	Cowl Wire and Floor No.2 Wire (Left Kick Panel)
IA2		
IB1	54	Front Door LH Wire and Cowl Wire (Left Kick Panel)
IB2		
IE1	54	Roof Wire and Cowl Wire (Near the Bottom of Left Front Pillar)
IF3	54	Instrument Panel Wire and Cowl Wire (Right Side of Instrument Panel J/B)
IK2	55	Engine Room Main Wire and Cowl Wire (Right Cowl Side Panel)
IK3		
IL1	55	Instrument Panel Wire and Cowl Wire (Right Cowl Side Panel)
IL2		
IN1	55	Front Door RH Wire and Cowl Wire (Right Kick Panel)
IN2		
IO2	55	Cowl Wire and Floor Wire (Right Kick Panel)
BB1	56	Rear Door No.1 LH Wire and Floor No.2 Wire (Left Center Pillar)
BC1	56	Rear Door No.1 RH Wire and Floor Wire (Right Center Pillar)
BG2	56	Back Door No.1 Wire and Floor No.2 Wire (Rear Left of the Roof)
BG3		
BH1	56	Floor No.2 Wire and Floor Wire (Near the Rear Side Marker Light RH)

**: Ground Points**

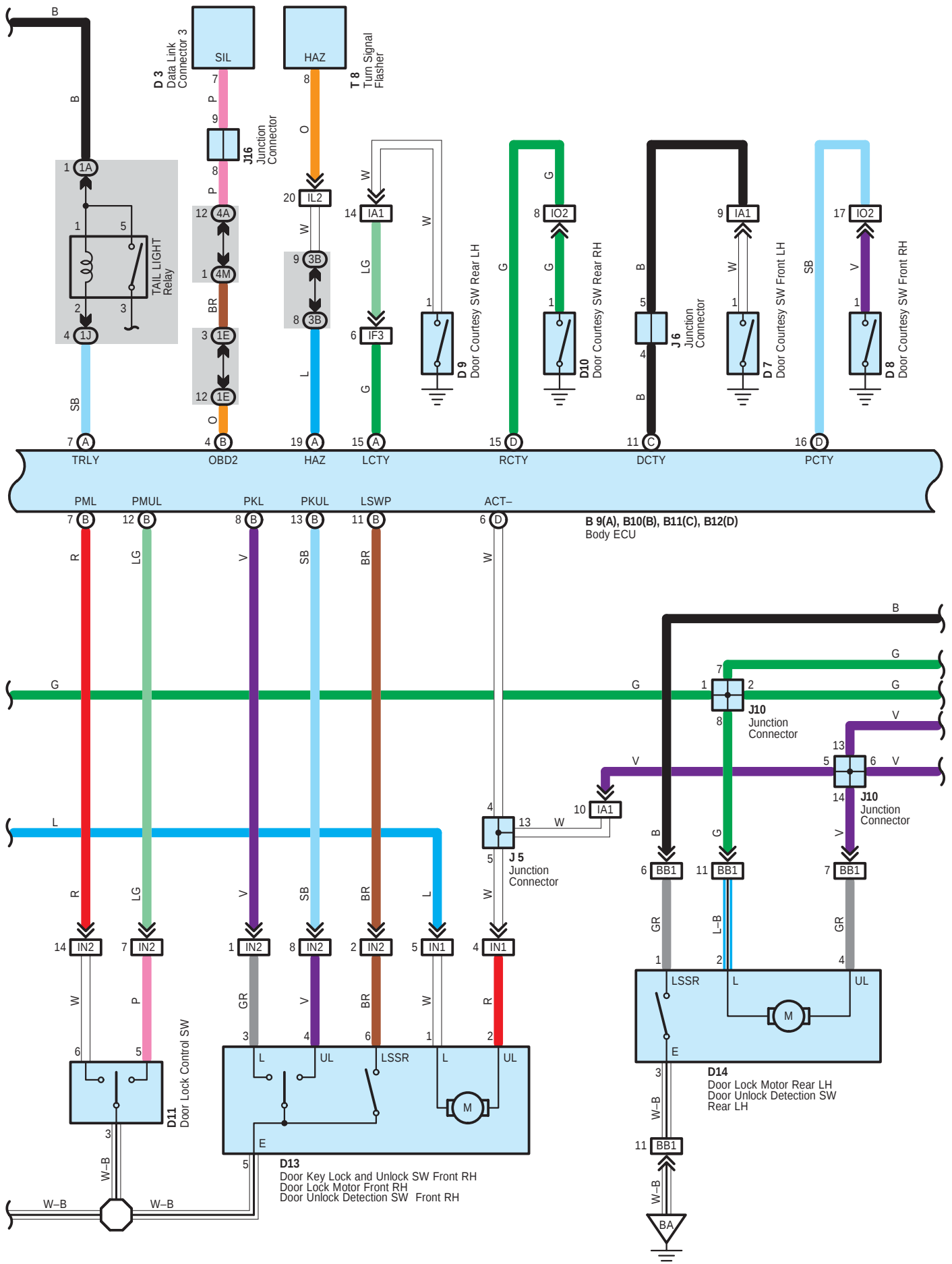
Code	See Page	Ground Points Location
IA	54	Left Cowl Side Panel
IC	54	Right Cowl Side Panel
BA	56	Left Center Pillar
BB	56	Right Center Pillar
BC	56	Left Side of Rear Cross Member
BE	56	Left Side of Back Door
BF	56	Near the Rear Side Marker Light RH

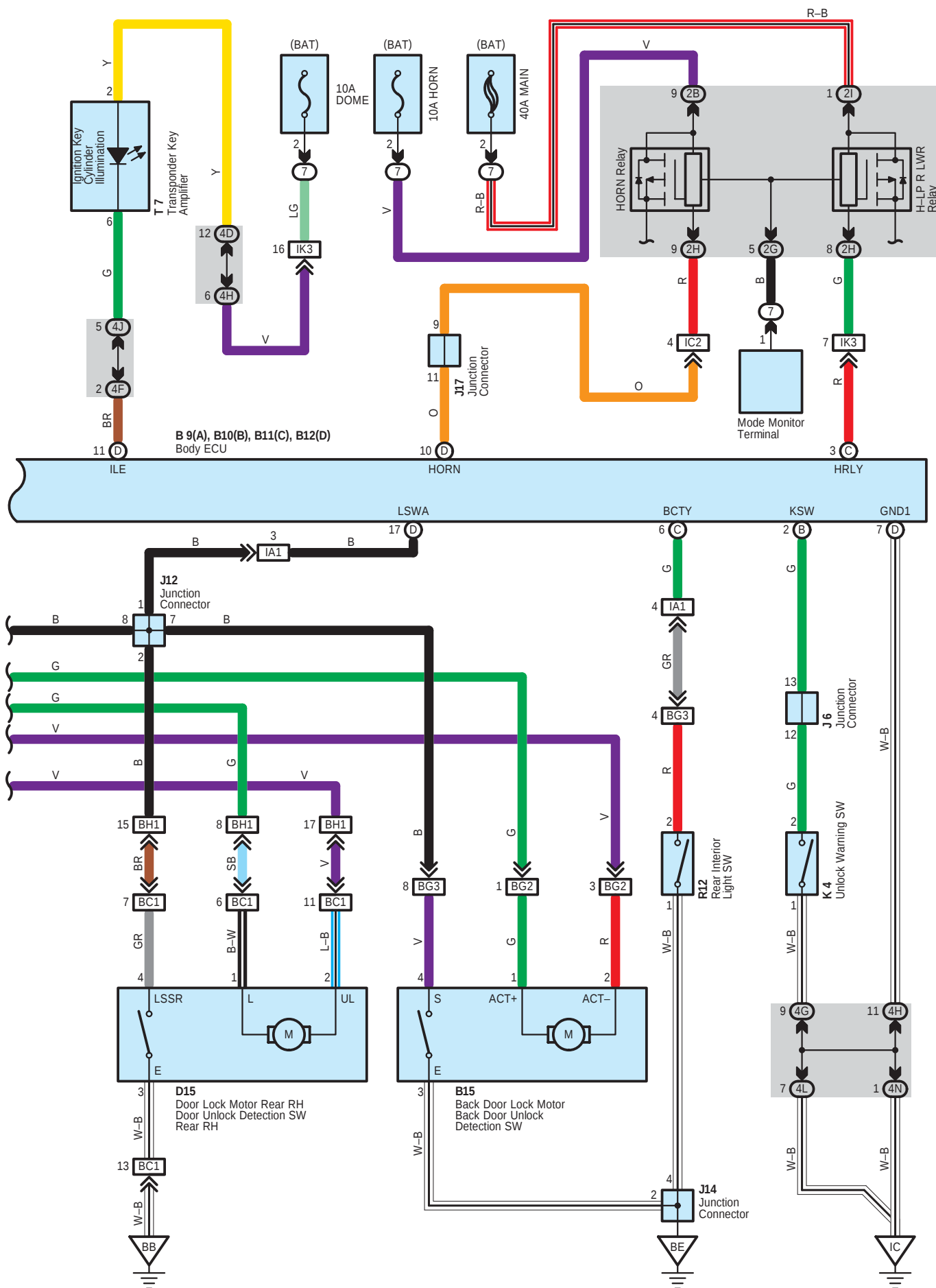
Theft Deterrent System





Theft Deterrent System





Theft Deterrent System

: Parts Location

Code		See Page	Code	See Page	Code	See Page
A10	A	44	D10	46	J17	45
A11	B	44	D11	46	J30	45
A17		44	D12	46	J31	A 45
B9	A	44	D13	46	J32	B 45
B10	B	44	D14	46	K4	45
B11	C	44	D15	46	O4	45
B12	D	44	E3	42	P5	46
B14		46	G5	44	R12	47
B15		46	J1	43	S30	A 45
C11	A	44	J5	45	S31	B 45
C12	B	44	J6	45	T1	43
D3		44	J10	46	T4	45
D7		46	J12	46	T5	45
D8		46	J14	46	T7	45
D9		46	J16	45	T8	45

: Relay Blocks

Code	See Page	Relay Blocks (Relay Block Location)
7	24	Fusible Link Block (Engine Compartment Left)

: Junction Block and Wire Harness Connector

Code	See Page	Junction Block and Wire Harness (Connector Location)
1A	31	Engine Room Main Wire and Instrument Panel J/B (Lower Finish Panel)
1D	31	Cowl Wire and Instrument Panel J/B (Lower Finish Panel)
1E		
1G		
1H		
1J	30	Instrument Panel Wire and Instrument Panel J/B (Lower Finish Panel)
1K		
2B	28	Engine Room Main Wire and Engine Room J/B (Engine Compartment Left)
2G		
2H		
2I		
3A	34	Instrument Panel Wire and J/B No.3 (Behind the Instrument Panel Center)
3B		
3C		
3D		
3E		
3F		
3H	35	
3J		
4A	39	Cowl Wire and J/B No.4 (Right Side of Glove Box)
4D		
4F		
4G		
4H		
4J	38	
4L		
4M		
4N		
7A	24	Engine Room Main Wire and Fusible Link Block (Engine Compartment Left)
7C		

 : Connector Joining Wire Harness and Wire Harness

Code	See Page	Joining Wire Harness and Wire Harness (Connector Location)
IA1	54	Cowl Wire and Floor No.2 Wire (Left Kick Panel)
IA2		
IB1	54	Front Door LH Wire and Cowl Wire (Left Kick Panel)
IB2		
IC2	54	Engine Room Main Wire and Cowl Wire (Left Cowl Side Panel)
IC3		
IC4		
IF1	54	Instrument Panel Wire and Cowl Wire (Right Side of Instrument Panel J/B)
IF3		
IK2	55	Engine Room Main Wire and Cowl Wire (Right Cowl Side Panel)
IK3		
IL1	55	Instrument Panel Wire and Cowl Wire (Right Cowl Side Panel)
IL2		
IN1	55	Front Door RH Wire and Cowl Wire (Right Kick Panel)
IN2		
IO2	55	Cowl Wire and Floor Wire (Right Kick Panel)
BB1	56	Rear Door No.1 LH Wire and Floor No.2 Wire (Left Center Pillar)
BC1	56	Rear Door No.1 RH Wire and Floor Wire (Right Center Pillar)
BG2	56	Back Door No.1 Wire and Floor No.2 Wire (Rear Left of the Roof)
BG3		
BH1	56	Floor No.2 Wire and Floor Wire (Near the Rear Side Marker Light RH)

 : Ground Points

Code	See Page	Ground Points Location
EG	52	Under the Left Headlight
IA	54	Left Cowl Side Panel
IB	54	Right Instrument Panel Brace
IC	54	Right Cowl Side Panel
BA	56	Left Center Pillar
BB	56	Right Center Pillar
BE	56	Left Side of Back Door

System Outline

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

1. Slide Open Operation

The sliding roof fully opens automatically by pressing the SLIDE OPEN button of the overhead J/B once. If the sliding roof control switch is pressed again when the sliding roof is operating, the movement of the sliding roof stops.

The operation of SLIDE OPEN is not worked when the sliding roof at TILT UP position.

2. Slide Close Operation

If you keep pressing the TILT UP button of the overhead J/B when the sliding roof is open, the sliding roof closes half and stops the operation once. If you keep pressing the TILT UP once again, the sliding roof fully closes.

3. Tilt Up Operation

If you press the TILT UP button of the overhead J/B, the sliding roof is tilted up. However, the sliding roof is not tilted up when it is open

4. Tilt Down Operation

If you press the SLIDE OPEN button when the TILT UP of the overhead J/B is pressed, the sliding roof is tilted down.

5. Key Off Sliding Roof Operation

When the ignition SW is turned from ON position to OFF or ACC position, the sliding roof can be operated within about 40 seconds. However, even if it is within about 40 seconds, the sliding roof can not be operated when each of the front doors opens.

: Parts Location

Code	See Page	Code		See Page	Code	See Page
B10	44	J31	A	45	S20	47
C12	44	J32	B	45		
J17	45	O5		46		

: Relay Blocks

Code	See Page	Relay Blocks (Relay Block Location)
7	24	Fusible Link Block (Engine Compartment Left)

: Junction Block and Wire Harness Connector

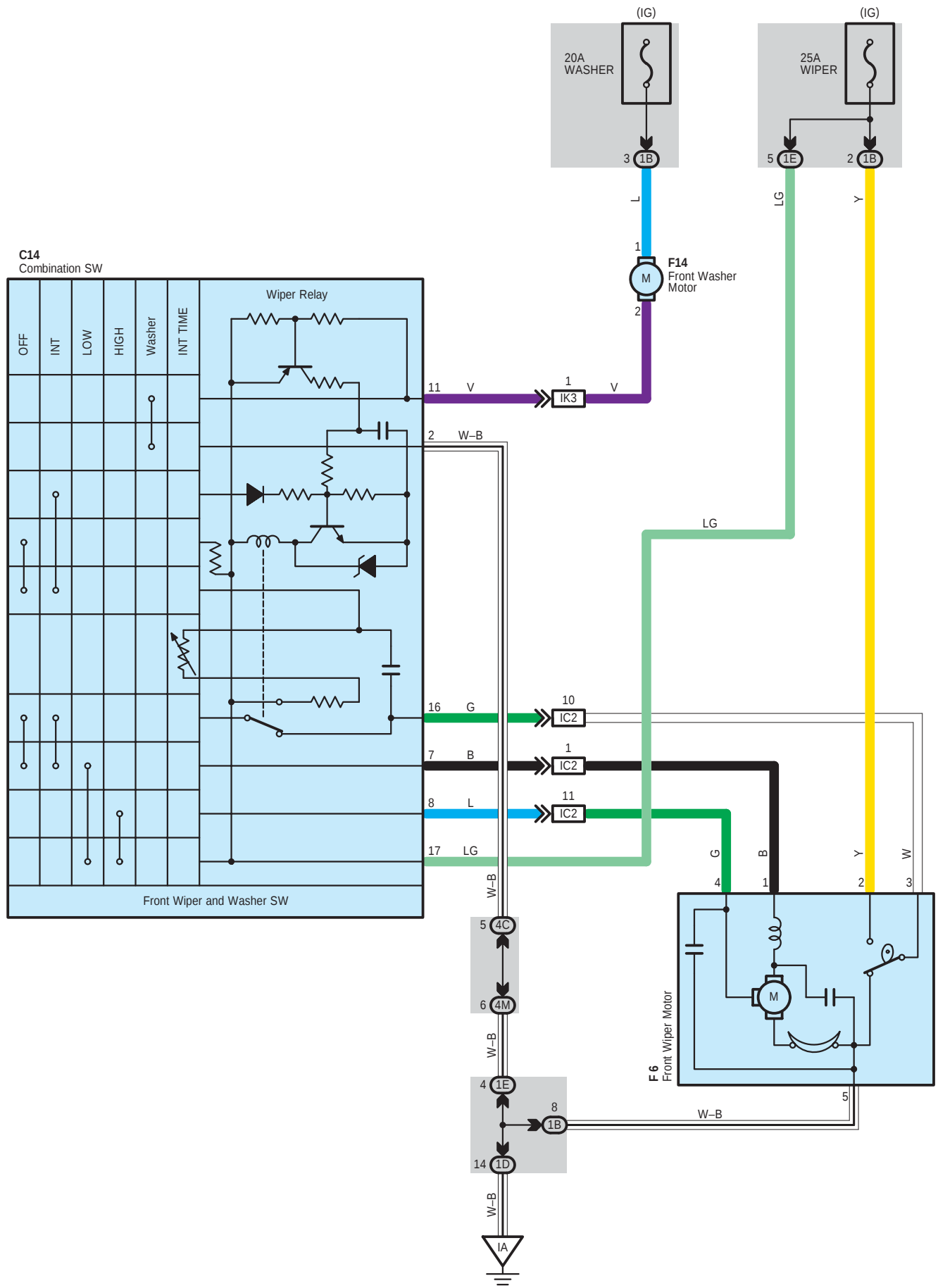
Code	See Page	Junction Block and Wire Harness (Connector Location)
1D	31	Cowl Wire and Instrument Panel J/B (Lower Finish Panel)
1E		
1G		
1H		
4D	39	Cowl Wire and J/B No.4 (Right Side of Glove Box)
4L	38	
4M		
4N		

: Connector Joining Wire Harness and Wire Harness

Code	See Page	Joining Wire Harness and Wire Harness (Connector Location)
IE1	54	Roof Wire and Cowl Wire (Near the Bottom of Left Front Pillar)
IL2	55	Instrument Panel Wire and Cowl Wire (Right Cowl Side Panel)

: Ground Points

Code	See Page	Ground Points Location
IA	54	Left Cowl Side Panel
IC	54	Right Cowl Side Panel



System Outline

With the ignition SW turned on, the current flows to TERMINAL 17 of the front wiper and washer SW, TERMINAL 2 of the front wiper motor through the WIPER fuse, the current flows to TERMINAL 1 of the washer motor through WASHER fuse.

1. Low Speed Position

With the wiper SW turned to LOW position, the current flows through TERMINAL 17 of the front wiper and washer SW to TERMINAL 7 to TERMINAL 1 of the front wiper motor to TERMINAL 5 to GROUND and causes the wiper motor to run at low speed.

2. High Speed Position

With the wiper SW turned to HIGH position, the current flows through TERMINAL 17 of the front wiper and washer SW to TERMINAL 8 to TERMINAL 4 of the front wiper motor to TERMINAL 5 to GROUND and causes the wiper motor to run at high speed.

3. INT Position

With the wiper SW turned to INT position, the relay operates and the current which is connected by relay function flows through TERMINAL 17 of the front wiper and washer SW to TERMINAL 2 to GROUND. This flow of current operates the intermittent circuit and the current flows through TERMINAL 17 of the front wiper and washer SW to TERMINAL 7 to TERMINAL 1 of the front wiper motor to TERMINAL 5 to GROUND and the wiper functions.

The intermittent operation is controlled by a condenser's charged and discharged function installed in the relay and the intermittent time is controlled by a time control SW to charge the charging time of condenser.

4. Washer Continuous Operation

With the washer SW pulled to on, the current flows through TERMINAL 1 of the washer motor to TERMINAL 2 to TERMINAL 11 of the front wiper and washer SW to TERMINAL 2 to GROUND and causes the washer motor to run and the window washer to jet. This causes the current to flow to washer continuous operation circuit in TERMINAL 17 of the front wiper and washer SW to TERMINAL 7 to TERMINAL 1 of the front wiper motor to TERMINAL 5 to GROUND and the wiper functions.

○ : Parts Location

Code	See Page	Code	See Page	Code	See Page
C14	44	F6	42	F14	42

○ : Junction Block and Wire Harness Connector

Code	See Page	Junction Block and Wire Harness (Connector Location)
1B	31	Engine Room Main Wire and Instrument Panel J/B (Lower Finish Panel)
1D	31	Cowl Wire and Instrument Panel J/B (Lower Finish Panel)
1E		
4C	39	Cowl Wire and J/B No.4 (Right Side of Glove Box)
4M	38	

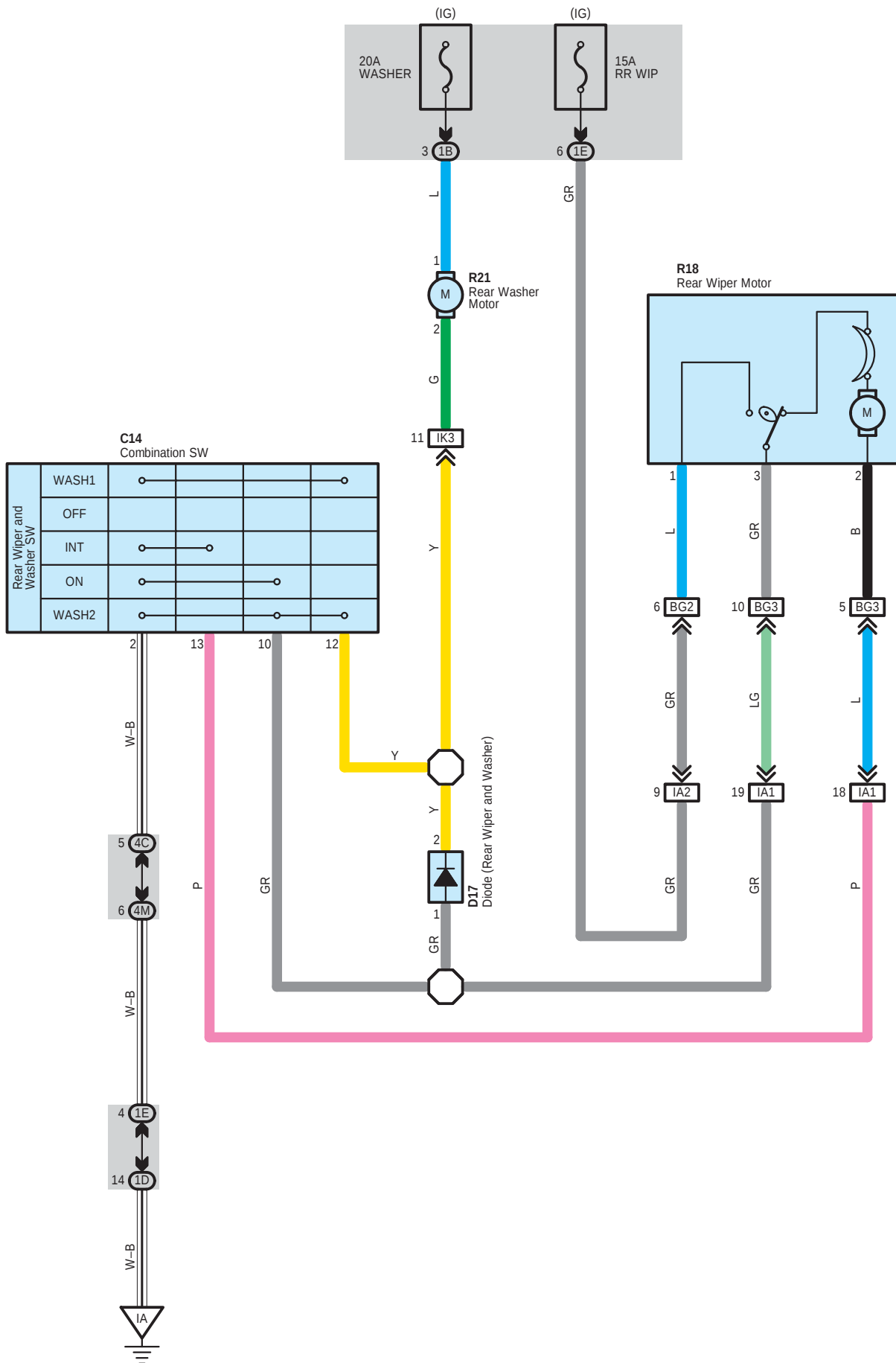
□ : Connector Joining Wire Harness and Wire Harness

Code	See Page	Joining Wire Harness and Wire Harness (Connector Location)
IC2	54	Engine Room Main Wire and Cowl Wire (Left Cowl Side Panel)
IK3	55	Engine Room Main Wire and Cowl Wire (Right Cowl Side Panel)

▽ : Ground Points

Code	See Page	Ground Points Location
IA	54	Left Cowl Side Panel

Rear Wiper and Washer



 : Parts Location

Code	See Page	Code	See Page	Code	See Page
C14	44	R18	47		
D17	44	R21	43		

 : Junction Block and Wire Harness Connector

Code	See Page	Junction Block and Wire Harness (Connector Location)
1B	31	Engine Room Main Wire and Instrument Panel J/B (Lower Finish Panel)
1D	31	Cowl Wire and Instrument Panel J/B (Lower Finish Panel)
1E		
4C	39	Cowl Wire and J/B No.4 (Right Side of Glove Box)
4M	38	

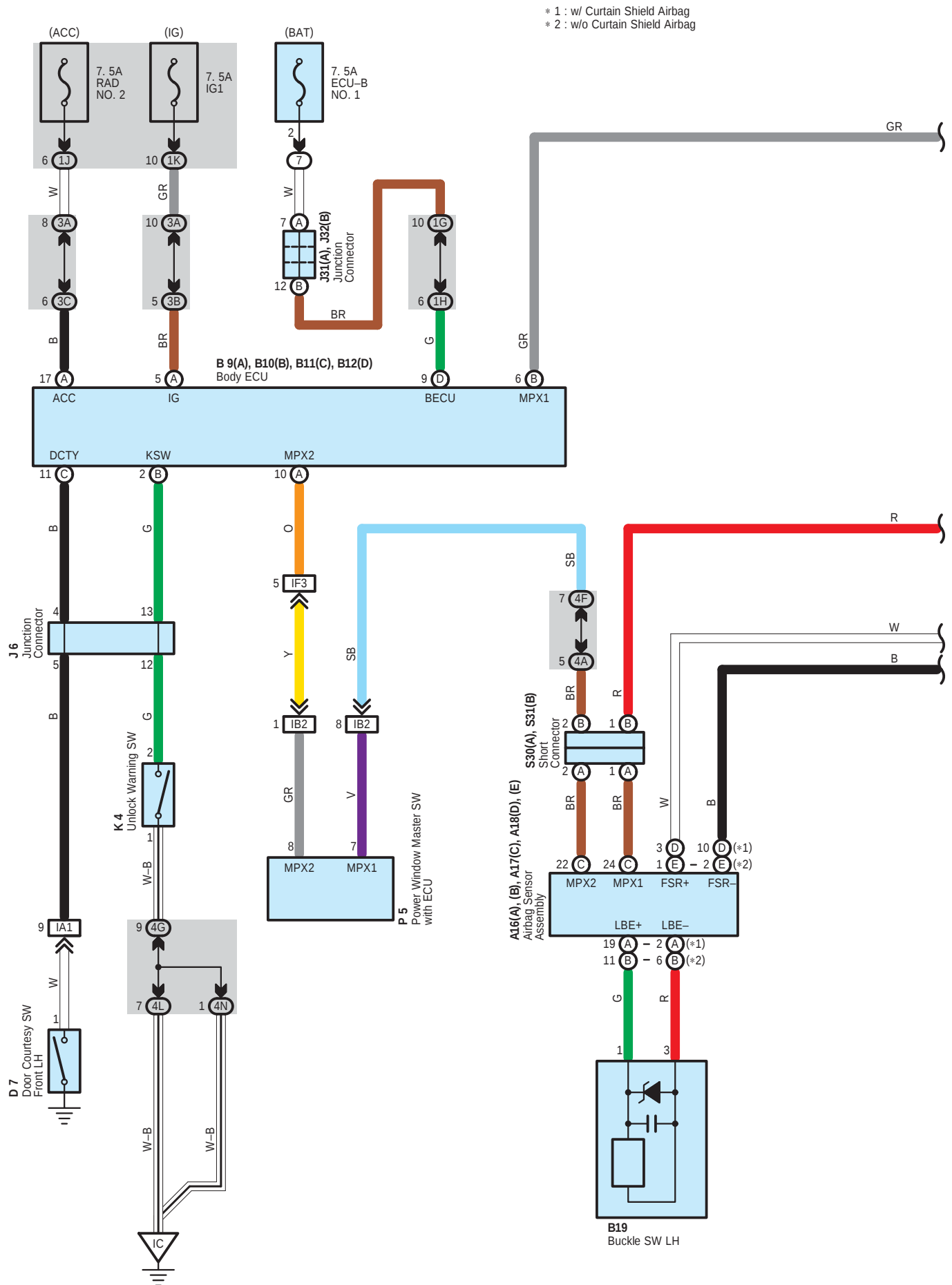
 : Connector Joining Wire Harness and Wire Harness

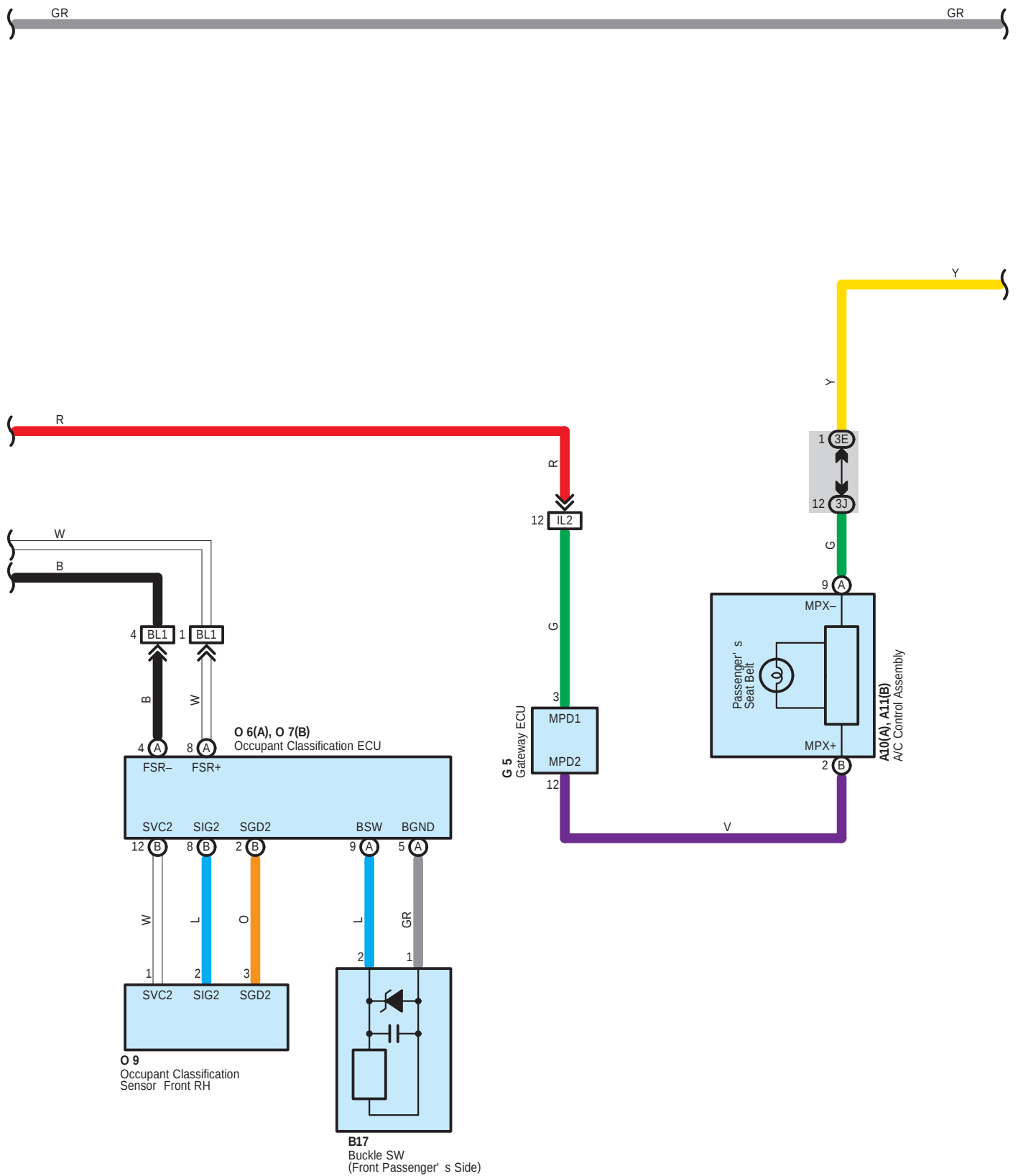
Code	See Page	Joining Wire Harness and Wire Harness (Connector Location)
IA1	54	Cowl Wire and Floor No.2 Wire (Left Kick Panel)
IA2		
IK3	55	Engine Room Main Wire and Cowl Wire (Right Cowl Side Panel)
BG2	56	Back Door No.1 Wire and Floor No.2 Wire (Rear Left of the Roof)
BG3		

 : Ground Points

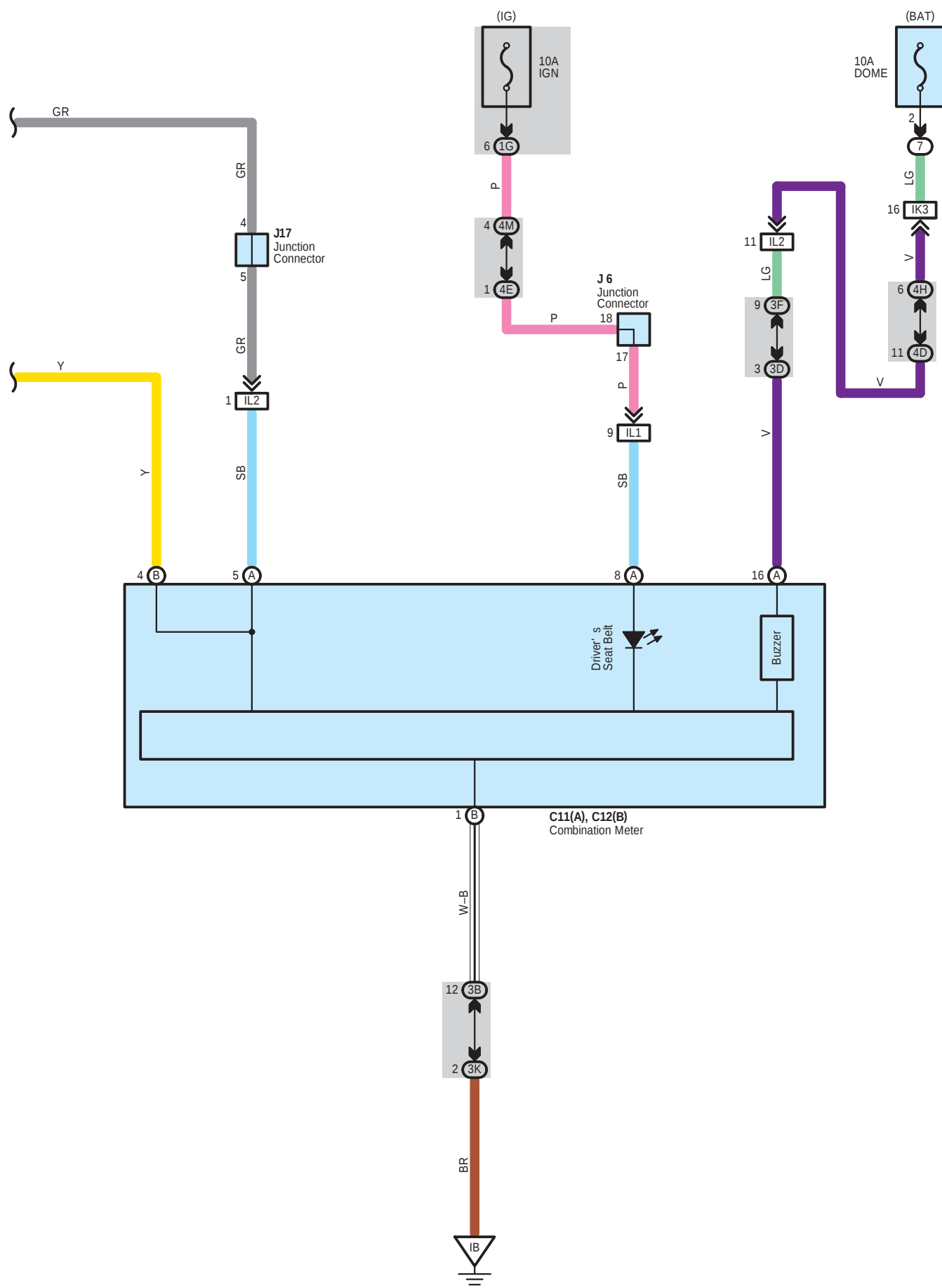
Code	See Page	Ground Points Location
IA	54	Left Cowl Side Panel

Key Reminder and Seat Belt Warning





Key Reminder and Seat Belt Warning



System Outline

1. Seat Belt Warning System

When the ignition SW is turned to the ON position, the signal is input to the body ECU. At this time, to judge whether or not the driver fastens the seat belt, the signal from the buckle SW LH is input to TERMINAL (A) 10 of the body ECU via multiplex communication system (Bean bus). If the driver does not fasten the seat belt, the seat belt warning light in the combination meter flashes and the alarm buzzer goes on, in response to the communication control of the body ECU etc.

Additionally, the sensor (Inside of buckle SW (Front passenger's side)) installed on the front passenger seat detects the passenger and determines whether or not the passenger fastens the seat belt.

If the passenger does not fasten the seat belt, the front passenger seat belt warning light is flashed.

2. Key Reminder System

If the driver door is opened with the ignition SW set at the ACC or OFF position and the ignition key remained inserted into the key cylinder (The unlock warning SW is on), the signal from the unlock warning SW is input to TERMINAL (B) 2 of the body ECU and the signal from the door courtesy SW LH is input to TERMINAL (C) 11 of body ECU. As a result, through communication control of the body ECU etc. the buzzer in the combination meter goes on to warn the driver that the ignition key is still inserted.

○ : Parts Location

Code		See Page	Code		See Page	Code		See Page
A10	A	44	B17		48 (*1)	J32	B	45
A11	B	44			49 (*2)	K4		45
A16	A	44	B19		48 (*1)	O6	A	48 (*1)
	B	44			49 (*2)			49 (*2)
A17	C	44	C11	A	44	O7	B	48 (*1)
A18	D	44	C12	B	44			49 (*2)
	E	44	D7		46	O9		48 (*1)
B9	A	44	G5		44			49 (*2)
B10	B	44	J6		45	P5		46
B11	C	44	J17		45	S30	A	45
B12	D	44	J31	A	45	S31	B	45

○ : Relay Blocks

Code	See Page	Relay Blocks (Relay Block Location)
7	24	Fusible Link Block (Engine Compartment Left)

* 1 : w/ Power Seat

* 2 : w/o Power Seat

Key Reminder and Seat Belt Warning



: Junction Block and Wire Harness Connector

Code	See Page	Junction Block and Wire Harness (Connector Location)	
1G	31	Cowl Wire and Instrument Panel J/B (Lower Finish Panel)	
1H			
1J	30	Instrument Panel Wire and Instrument Panel J/B (Lower Finish Panel)	
1K			
3A	34	Instrument Panel Wire and J/B No.3 (Behind the Instrument Panel Center)	
3B			
3C			
3D			
3E			
3F			
3J	35		
3K			
4A	39		Cowl Wire and J/B No.4 (Right Side of Glove Box)
4D			
4E			
4F			
4G			
4H			
4L	38		
4M			
4N			



: Connector Joining Wire Harness and Wire Harness

Code	See Page	Joining Wire Harness and Wire Harness (Connector Location)
IA1	54	Cowl Wire and Floor No.2 Wire (Left Kick Panel)
IB2	54	Front Door LH Wire and Cowl Wire (Left Kick Panel)
IF3	54	Instrument Panel Wire and Cowl Wire (Right Side of Instrument Panel J/B)
IK3	55	Engine Room Main Wire and Cowl Wire (Right Cowl Side Panel)
IL1	55	Instrument Panel Wire and Cowl Wire (Right Cowl Side Panel)
IL2		
BL1	58 (*1)	Floor Wire and Front Seat RH Wire (Under the Front Passenger's Seat)
	59 (*2)	

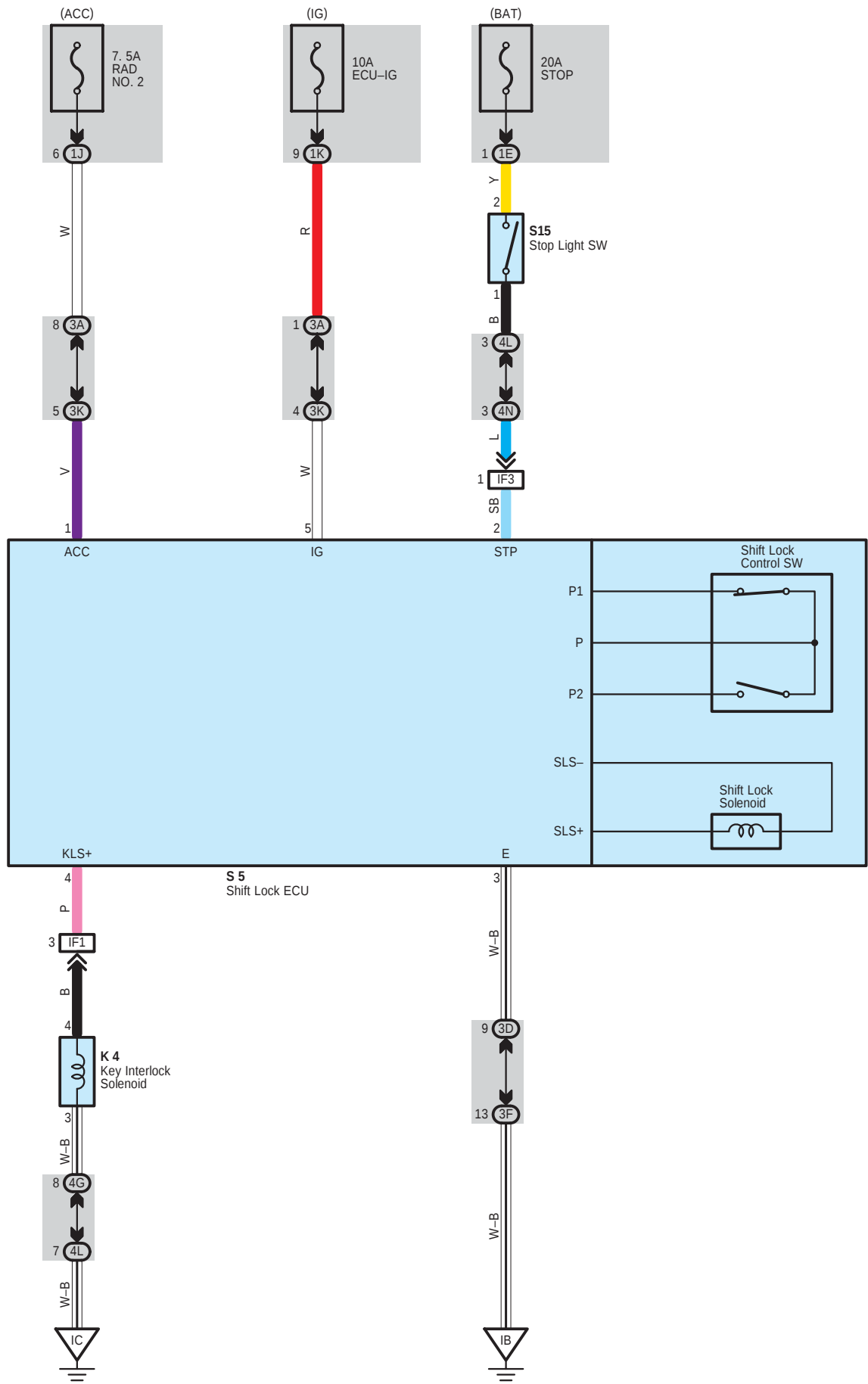


: Ground Points

Code	See Page	Ground Points Location
IB	54	Right Instrument Panel Brace
IC	54	Right Cowl Side Panel

* 1 : w/ Power Seat * 2 : w/o Power Seat

Shift Lock



System Outline

When the ignition SW is turned to ACC position, the current from the RAD NO.2 fuse flows to TERMINAL 1 of the shift lock ECU. When the ignition SW is turned to ON position, the current from the ECU-IG fuse flows to TERMINAL 5 of the ECU.

1. Shift Lock Mechanism

With the ignition SW on, when a signal that the brake pedal is depressed (Stop light SW on) and a signal that the shift lever is put in P position (Continuity between P1 and P of the shift lock control SW) is input to the ECU, the ECU activates and the current flows from TERMINAL 5 of the ECU to TERMINAL SLS+ of the shift lock solenoid to solenoid to TERMINAL SLS- to TERMINAL 3 of the ECU to GROUND. This causes the shift lock solenoid to turn on (Lock plate disengages) and the shift lever can be shifted into other position than the P position

2. Key Inter Lock Mechanism

With the ignition SW ON or ACC position, when the shift lever is put in P position (No continuity between P2 and P of shift lock control SW), the current flowing from TERMINAL 4 of the ECU to the key interlock solenoid is cut off. This causes the key interlock solenoid to turn off (Lock plate disengages from LOCK position) and the ignition key can be turned from ACC to LOCK position.

: Parts Location

Code	See Page	Code	See Page	Code	See Page
K4	45	S5	45	S15	45

: Junction Block and Wire Harness Connector

Code	See Page	Junction Block and Wire Harness (Connector Location)
1E	31	Cowl Wire and Instrument Panel J/B (Lower Finish Panel)
1J	30	Instrument Panel Wire and Instrument Panel J/B (Lower Finish Panel)
1K		
3A	34	Instrument Panel Wire and J/B No.3 (Behind the Instrument Panel Center)
3D		
3F		
3K	35	
4G	39	
4L	38	Cowl Wire and J/B No.4 (Right Side of Glove Box)
4N		

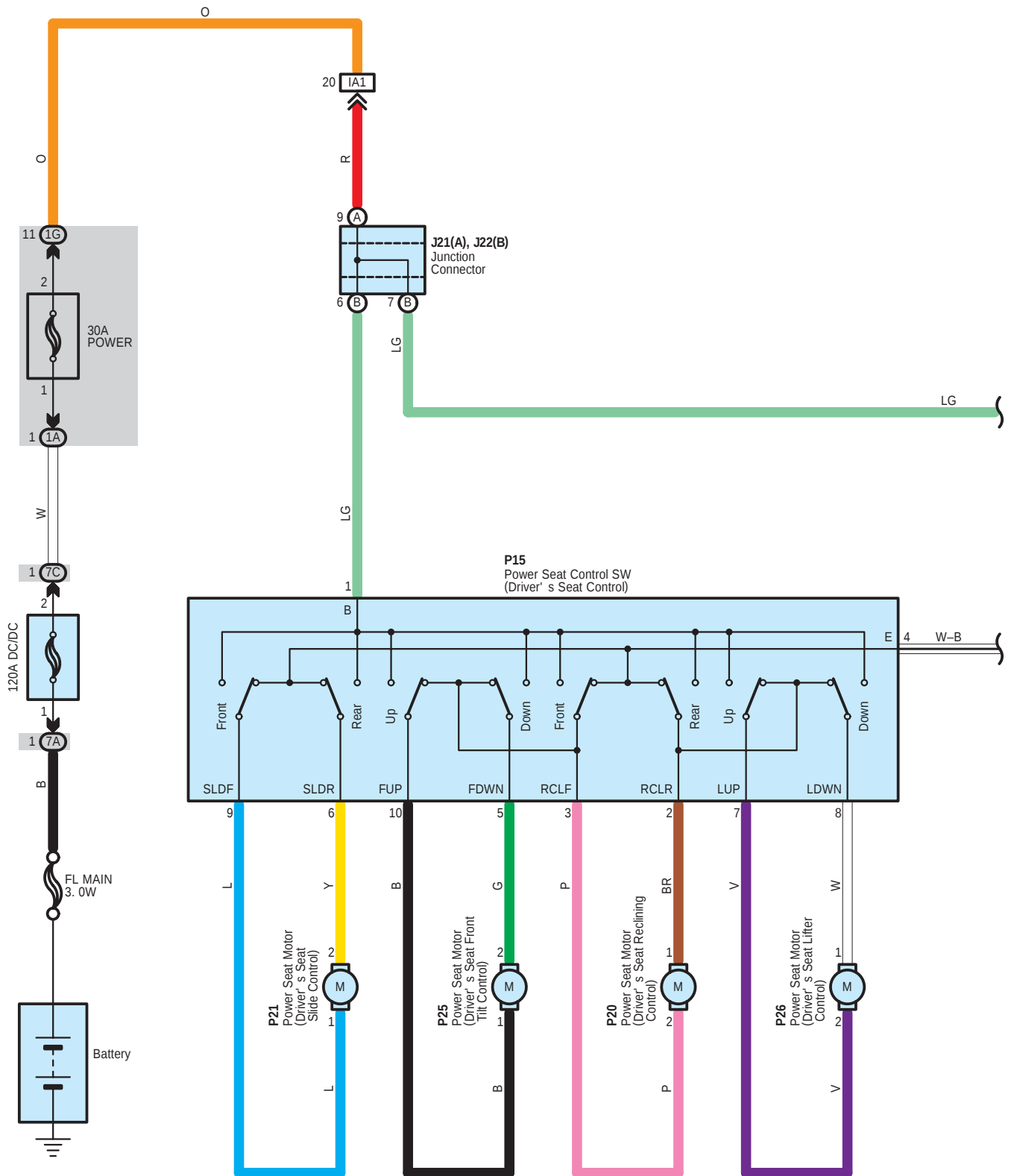
: Connector Joining Wire Harness and Wire Harness

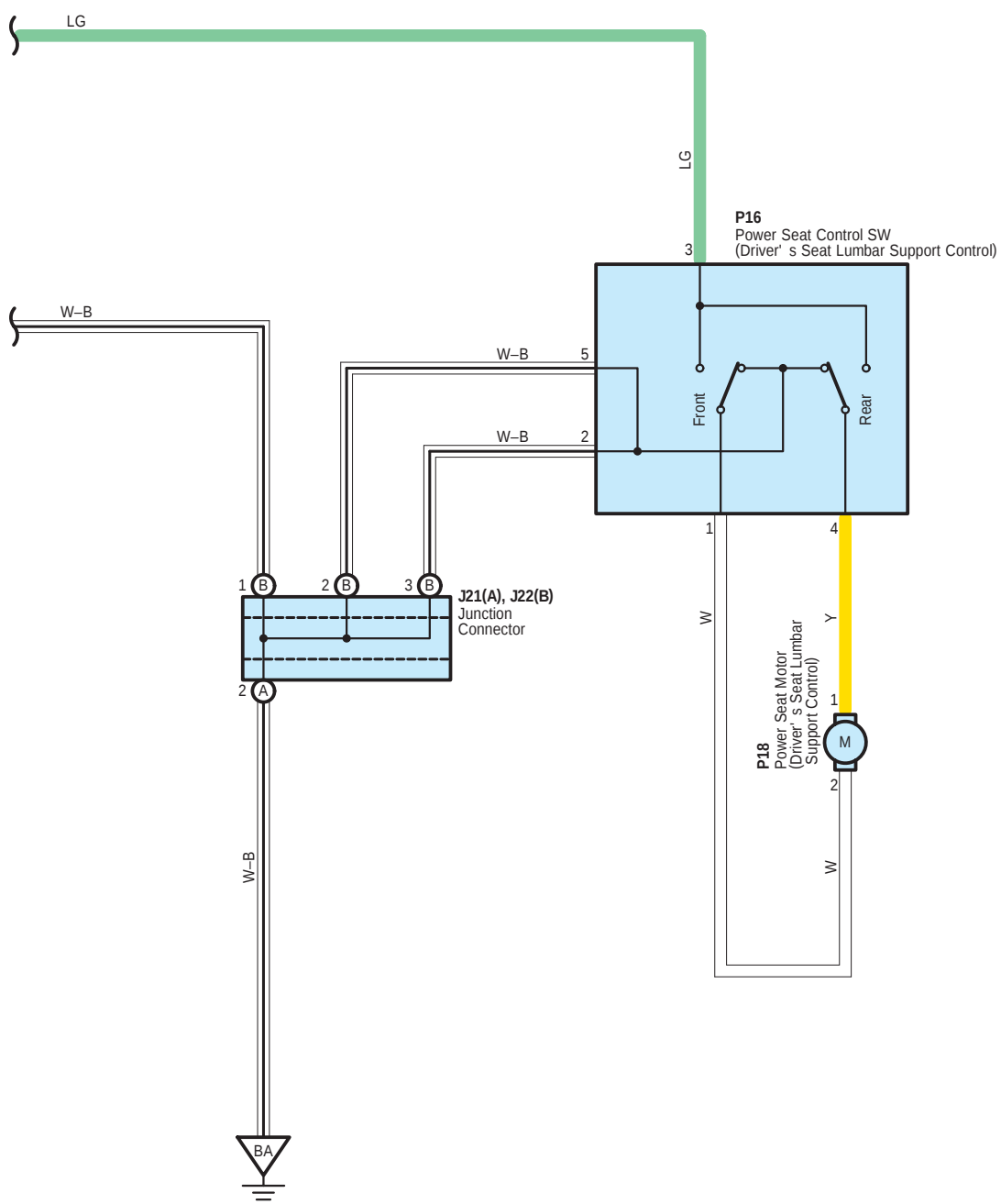
Code	See Page	Joining Wire Harness and Wire Harness (Connector Location)
IF1	54	Instrument Panel Wire and Cowl Wire (Right Side of Instrument Panel J/B)
IF3		

: Ground Points

Code	See Page	Ground Points Location
IB	54	Right Instrument Panel Brace
IC	54	Right Cowl Side Panel

Power Seat for Driver's Seat





Power Seat for Driver's Seat

: Parts Location

Code		See Page	Code		See Page	Code		See Page
J21	A	48 (*1)	P16	48 (*1)		P21	48 (*1)	
J22	B	48 (*1)	P18	48 (*1)		P25	48 (*1)	
P15		48 (*1)	P20	48 (*1)		P26	48 (*1)	

: Junction Block and Wire Harness Connector

Code	See Page	Junction Block and Wire Harness (Connector Location)
1A	31	Engine Room Main Wire and Instrument Panel J/B (Lower Finish Panel)
1G	31	Cowl Wire and Instrument Panel J/B (Lower Finish Panel)
7A	24	Engine Room Main Wire and Fusible Link Block (Engine Compartment Left)
7C		

: Connector Joining Wire Harness and Wire Harness

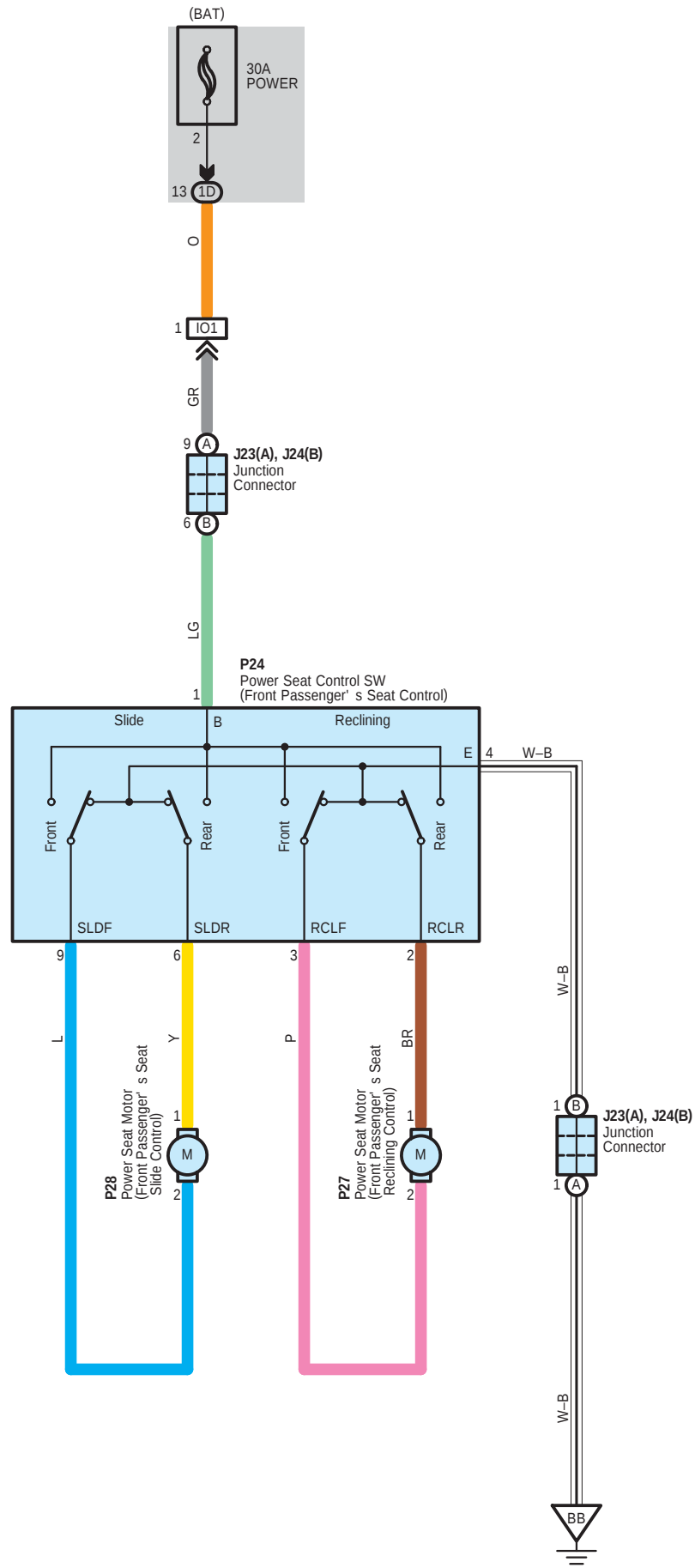
Code	See Page	Joining Wire Harness and Wire Harness (Connector Location)
IA1	54	Cowl Wire and Floor No.2 Wire (Left Kick Panel)

: Ground Points

Code	See Page	Ground Points Location
BA	56	Left Center Pillar

* 1 : w/ Power Seat * 2 : w/o Power Seat

Power Seat for Front Passenger's Seat



 : Parts Location

Code		See Page	Code	See Page	Code	See Page
J23	A	48 (*1)	P24	48 (*1)	P28	48 (*1)
J24	B	48 (*1)	P27	48 (*1)		

 : Junction Block and Wire Harness Connector

Code	See Page	Junction Block and Wire Harness (Connector Location)
1D	31	Cowl Wire and Instrument Panel J/B (Lower Finish Panel)

 : Connector Joining Wire Harness and Wire Harness

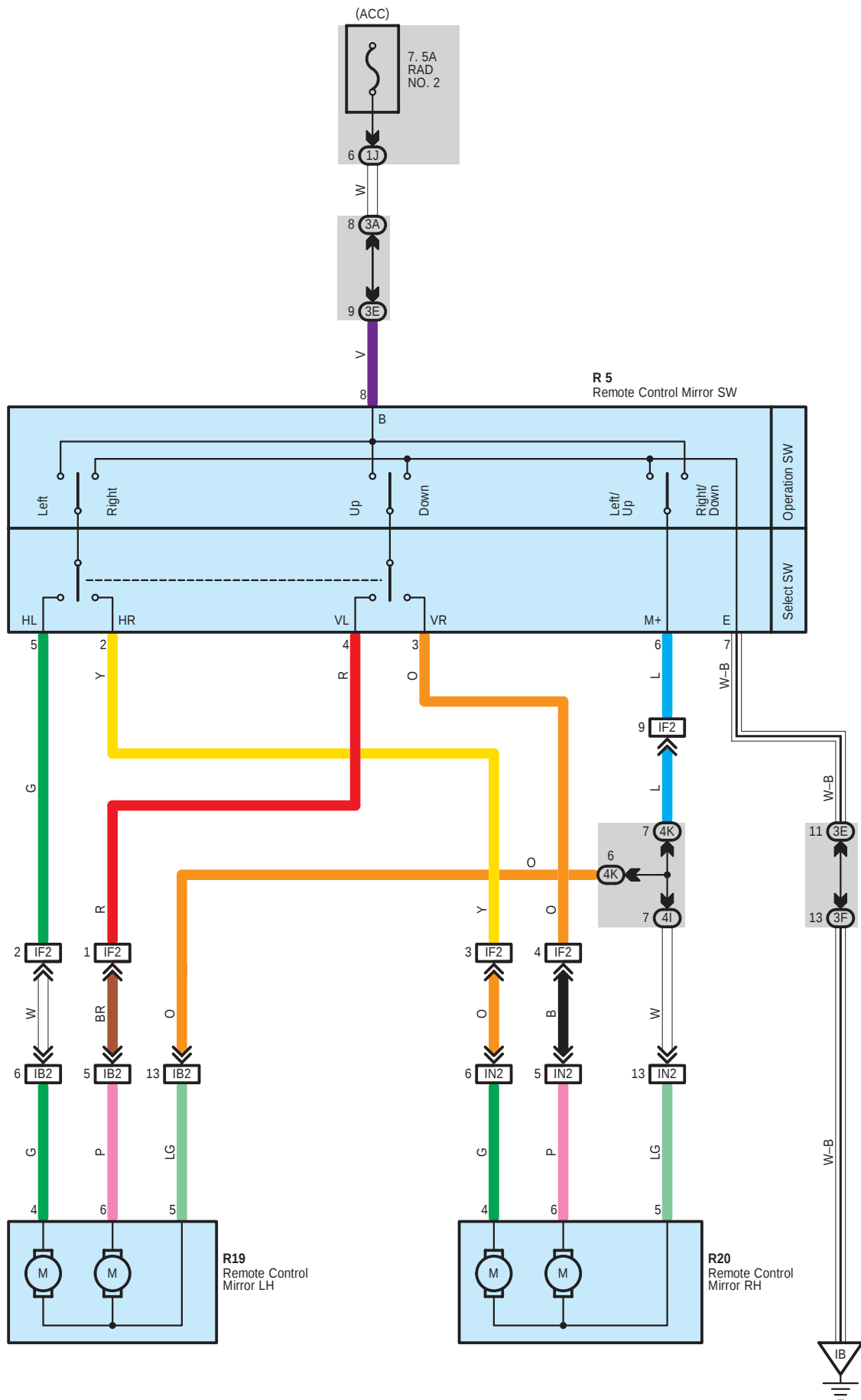
Code	See Page	Joining Wire Harness and Wire Harness (Connector Location)
IO1	55	Cowl Wire and Floor Wire (Right Kick Panel)

 : Ground Points

Code	See Page	Ground Points Location
BB	56	Right Center Pillar

* 1 : w/ Power Seat * 2 : w/o Power Seat

Remote Control Mirror



 : Parts Location

Code	See Page	Code	See Page	Code	See Page
R5	45	R19	47	R20	47

 : Junction Block and Wire Harness Connector

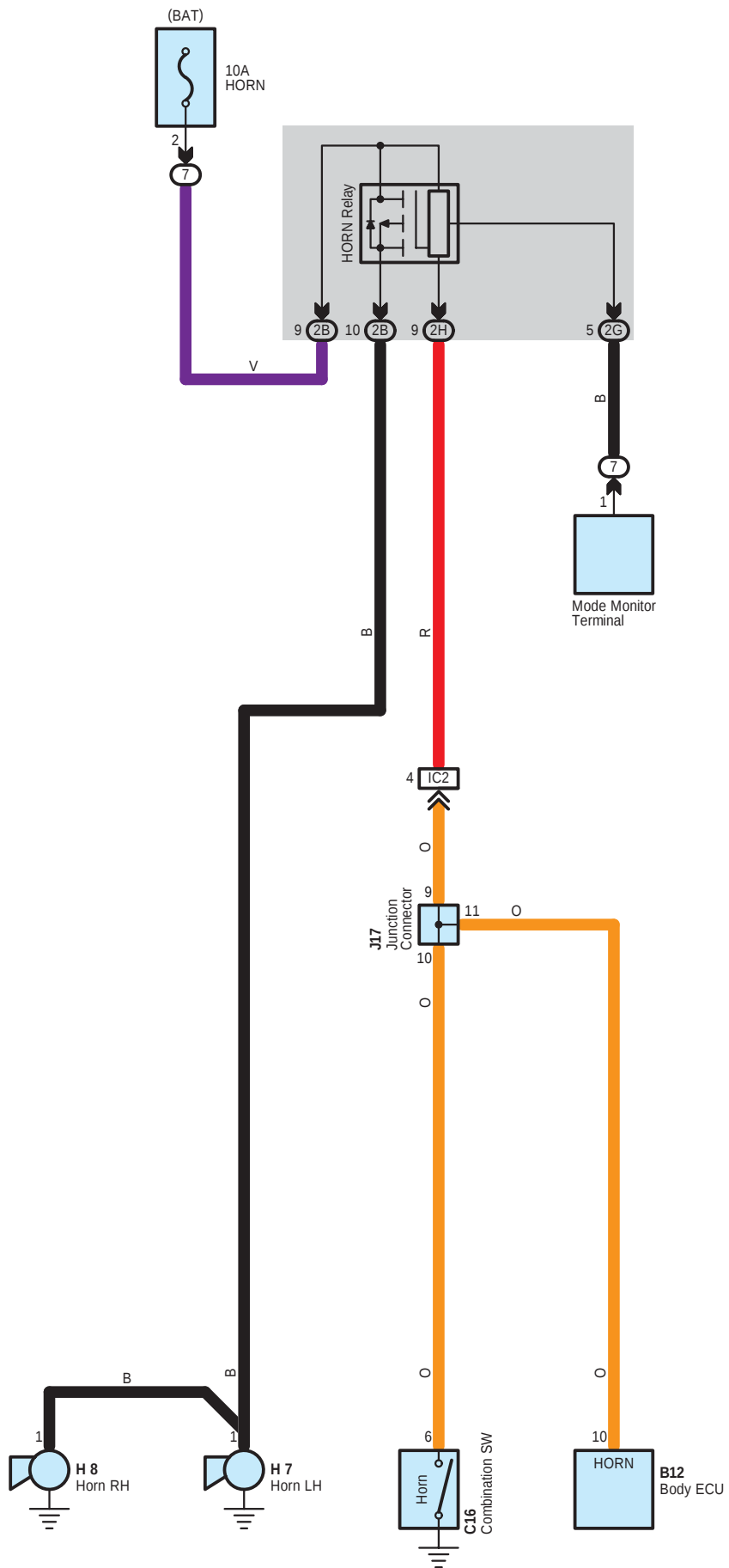
Code	See Page	Junction Block and Wire Harness (Connector Location)
1J	30	Instrument Panel Wire and Instrument Panel J/B (Lower Finish Panel)
3A	34	Instrument Panel Wire and J/B No.3 (Behind the Instrument Panel Center)
3E		
3F		
4I	38	Cowl Wire and J/B No.4 (Right Side of Glove Box)
4K		

 : Connector Joining Wire Harness and Wire Harness

Code	See Page	Joining Wire Harness and Wire Harness (Connector Location)
IB2	54	Front Door LH Wire and Cowl Wire (Left Kick Panel)
IF2	54	Instrument Panel Wire and Cowl Wire (Right Side of Instrument Panel J/B)
IN2	55	Front Door RH Wire and Cowl Wire (Right Kick Panel)

 : Ground Points

Code	See Page	Ground Points Location
IB	54	Right Instrument Panel Brace



 : Parts Location

Code	See Page	Code	See Page	Code	See Page
B12	44	H7	42	J17	45
C16	44	H8	42		

 : Relay Blocks

Code	See Page	Relay Blocks (Relay Block Location)
7	24	Fusible Link Block (Engine Compartment Left)

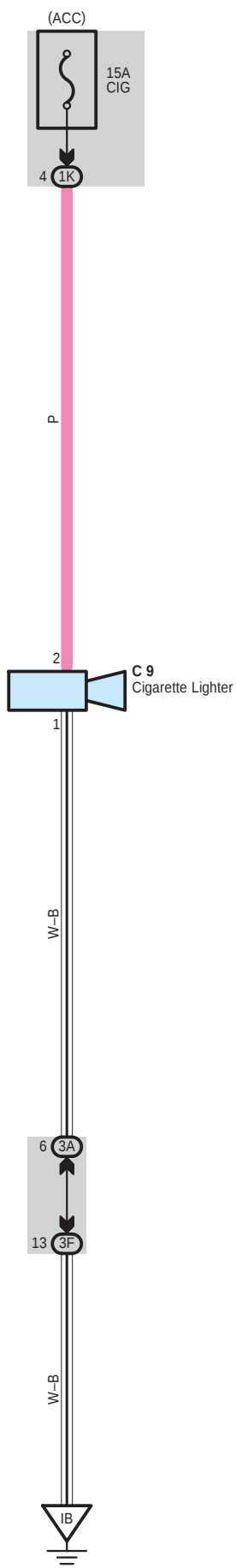
 : Junction Block and Wire Harness Connector

Code	See Page	Junction Block and Wire Harness (Connector Location)
2B	28	Engine Room Main Wire and Engine Room J/B (Engine Compartment Left)
2G		
2H		

 : Connector Joining Wire Harness and Wire Harness

Code	See Page	Joining Wire Harness and Wire Harness (Connector Location)
IC2	54	Engine Room Main Wire and Cowl Wire (Left Cowl Side Panel)

Cigarette Lighter



 : Parts Location

Code	See Page	Code	See Page	Code	See Page
C9	44				

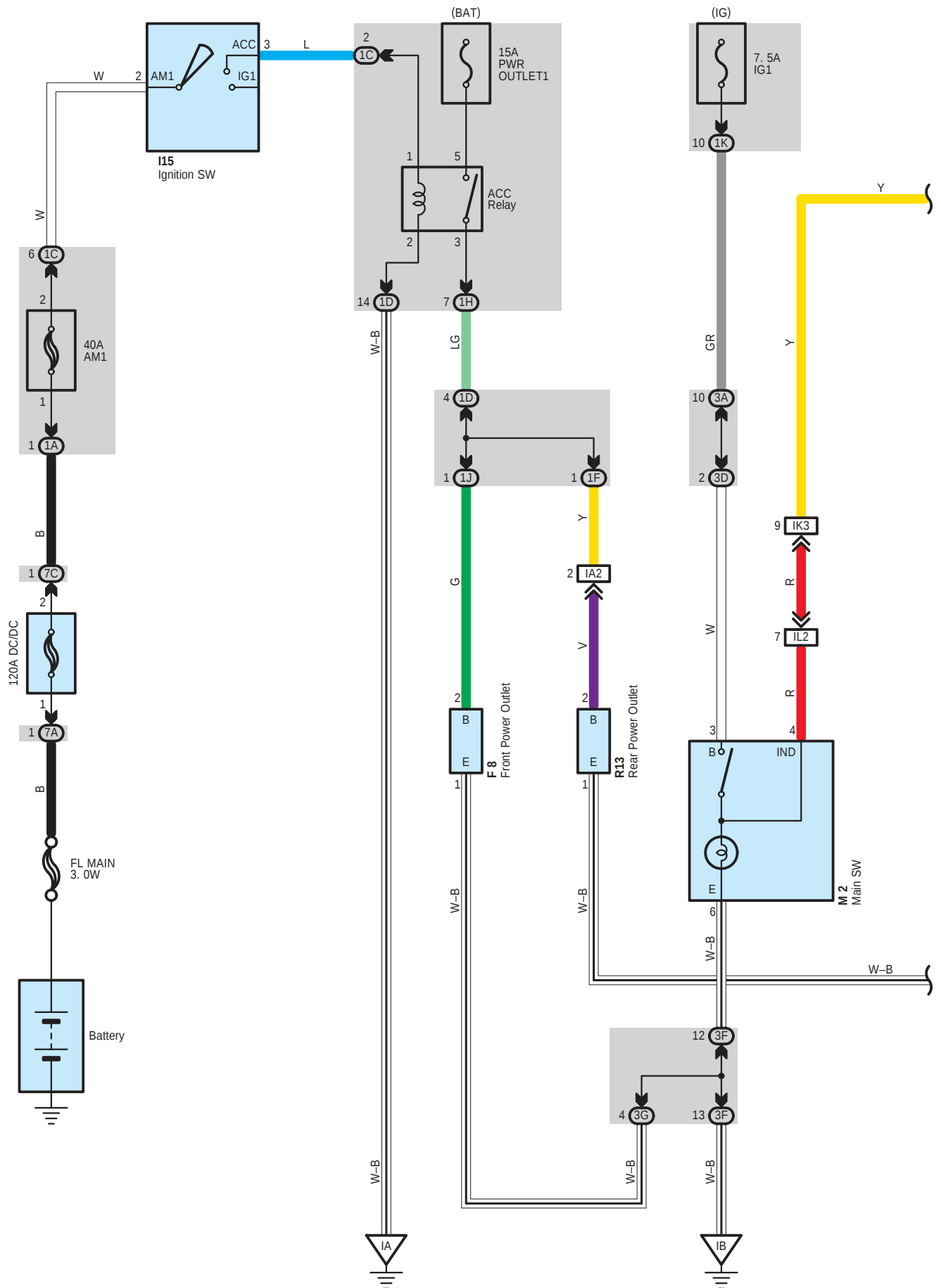
 : Junction Block and Wire Harness Connector

Code	See Page	Junction Block and Wire Harness (Connector Location)
1K	30	Instrument Panel Wire and Instrument Panel J/B (Lower Finish Panel)
3A	34	Instrument Panel Wire and J/B No.3 (Behind the Instrument Panel Center)
3F		

 : Ground Points

Code	See Page	Ground Points Location
IB	54	Right Instrument Panel Brace

Power Outlet



Power Outlet

: Parts Location

Code	See Page	Code	See Page	Code	See Page
F8	44	J12	46	R13	47
I15	44	M2	45	V15	47
J2	43	P23	46		

: Relay Blocks

Code	See Page	Relay Blocks (Relay Block Location)
4	27	R/B No.4 (Engine Compartment Left)
7	24	Fusible Link Block (Engine Compartment Left)

: Junction Block and Wire Harness Connector

Code	See Page	Junction Block and Wire Harness (Connector Location)
1A	31	Engine Room Main Wire and Instrument Panel J/B (Lower Finish Panel)
1C	31	Cowl Wire and Instrument Panel J/B (Lower Finish Panel)
1D		
1F		
1H		
1J	30	Instrument Panel Wire and Instrument Panel J/B (Lower Finish Panel)
1K		
3A	34	Instrument Panel Wire and J/B No.3 (Behind the Instrument Panel Center)
3D		
3F		
3G	35	
7A	24	Engine Room Main Wire and Fusible Link Block (Engine Compartment Left)
7C		

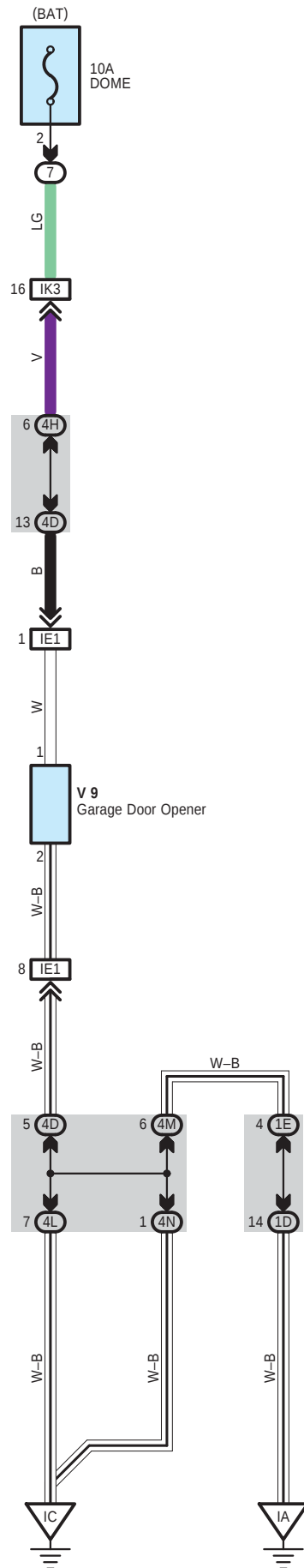
: Connector Joining Wire Harness and Wire Harness

Code	See Page	Joining Wire Harness and Wire Harness (Connector Location)
IA2	54	Cowl Wire and Floor No.2 Wire (Left Kick Panel)
IC5	54	Engine Room Main Wire and Cowl Wire (Left Cowl Side Panel)
IK3	55	Engine Room Main Wire and Cowl Wire (Right Cowl Side Panel)
IL2	55	Instrument Panel Wire and Cowl Wire (Right Cowl Side Panel)
IS1	55	Floor No.2 Wire and Cowl Wire (Left Kick Panel)

: Ground Points

Code	See Page	Ground Points Location
EH	52	Under the Left Headlight
IA	54	Left Cowl Side Panel
IB	54	Right Instrument Panel Brace
BC	56	Left Side of Rear Cross Member

Garage Door Opener



 : Parts Location

Code	See Page	Code	See Page	Code	See Page
V9	47				

 : Relay Blocks

Code	See Page	Relay Blocks (Relay Block Location)
7	24	Fusible Link Block (Engine Compartment Left)

 : Junction Block and Wire Harness Connector

Code	See Page	Junction Block and Wire Harness (Connector Location)
1D	31	Cowl Wire and Instrument Panel J/B (Lower Finish Panel)
1E		
4D	39	Cowl Wire and J/B No.4 (Right Side of Glove Box)
4H		
4L	38	
4M		
4N		

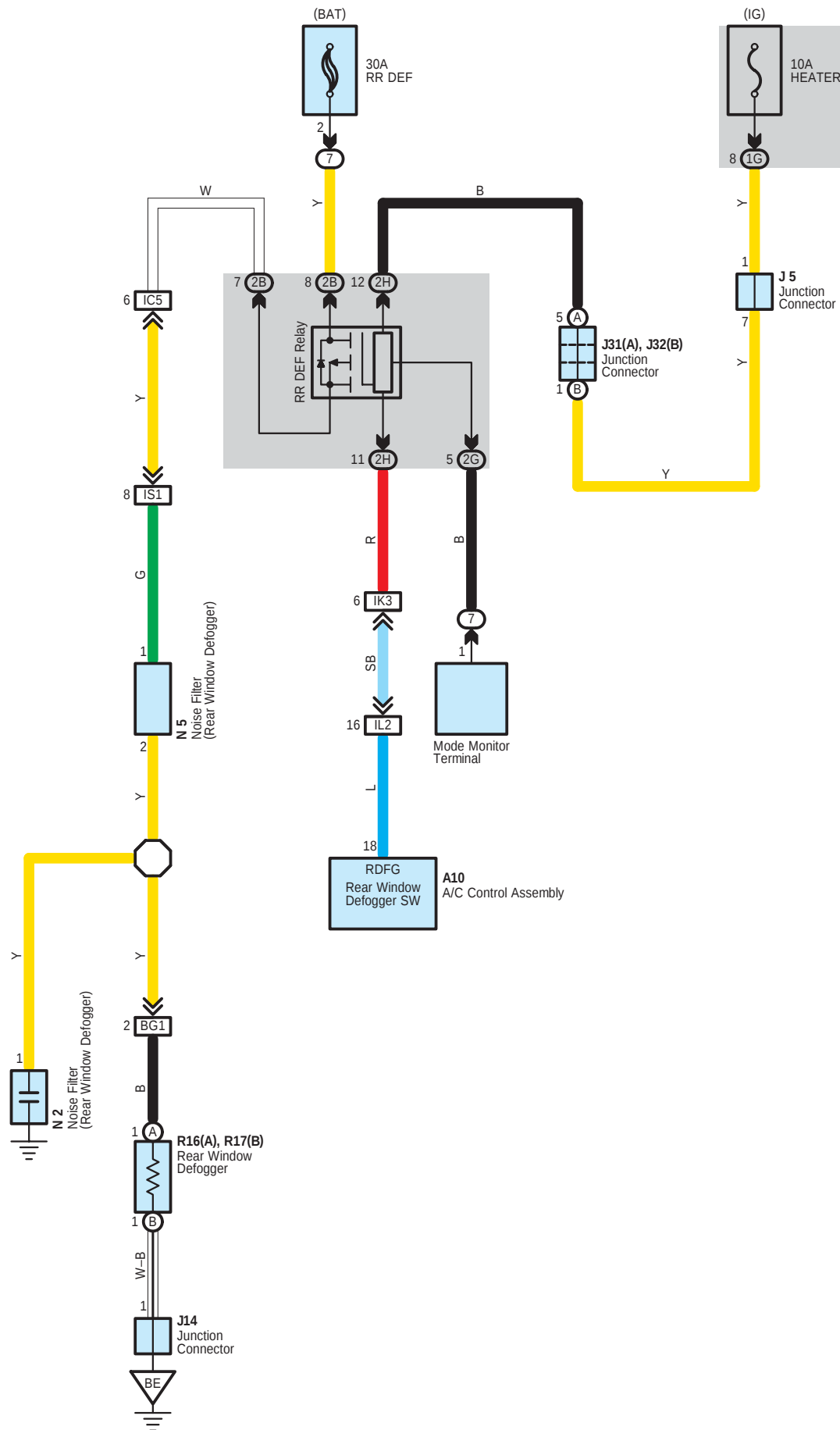
 : Connector Joining Wire Harness and Wire Harness

Code	See Page	Joining Wire Harness and Wire Harness (Connector Location)
IE1	54	Roof Wire and Cowl Wire (Near the Bottom of Left Front Pillar)
IK3	55	Engine Room Main Wire and Cowl Wire (Right Cowl Side Panel)

 : Ground Points

Code	See Page	Ground Points Location
IA	54	Left Cowl Side Panel
IC	54	Right Cowl Side Panel

Rear Window Defogger



 : Parts Location

Code	See Page	Code		See Page	Code		See Page
A10	44	J31	A	45	N5		46
J5	45	J32	B	45	R16	A	47
J14	46	N2		46	R17	B	47

 : Relay Blocks

Code	See Page	Relay Blocks (Relay Block Location)
7	24	Fusible Link Block (Engine Compartment Left)

 : Junction Block and Wire Harness Connector

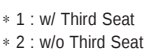
Code	See Page	Junction Block and Wire Harness (Connector Location)
1G	31	Cowl Wire and Instrument Panel J/B (Lower Finish Panel)
2B	28	Engine Room Main Wire and Engine Room J/B (Engine Compartment Left)
2G		
2H		

 : Connector Joining Wire Harness and Wire Harness

Code	See Page	Joining Wire Harness and Wire Harness (Connector Location)
IC5	54	Engine Room Main Wire and Cowl Wire (Left Cowl Side Panel)
IK3	55	Engine Room Main Wire and Cowl Wire (Right Cowl Side Panel)
IL2	55	Instrument Panel Wire and Cowl Wire (Right Cowl Side Panel)
IS1	55	Floor No.2 Wire and Cowl Wire (Left Kick Panel)
BG1	56	Back Door No.1 Wire and Floor No.2 Wire (Rear Left of the Roof)

 : Ground Points

Code	See Page	Ground Points Location
BE	56	Left Side of Back Door



 : Parts Location

Code		See Page	Code		See Page	Code		See Page
C11	A	44	F16	B	46	J6		45
C12	B	44	F17		46	J39		46
F15		44	H12	A	44			
F16	A	46	H13	B	44			

 : Relay Blocks

Code	See Page	Relay Blocks (Relay Block Location)
7	24	Fusible Link Block (Engine Compartment Left)

 : Junction Block and Wire Harness Connector

Code	See Page	Junction Block and Wire Harness (Connector Location)
1F	31	Cowl Wire and Instrument Panel J/B (Lower Finish Panel)
1G		
3B	34	Instrument Panel Wire and J/B No.3 (Behind the Instrument Panel Center)
3D		
3F		
3K	35	
4D	39	Cowl Wire and J/B No.4 (Right Side of Glove Box)
4E		
4H		
4J	38	
4L		
4M		

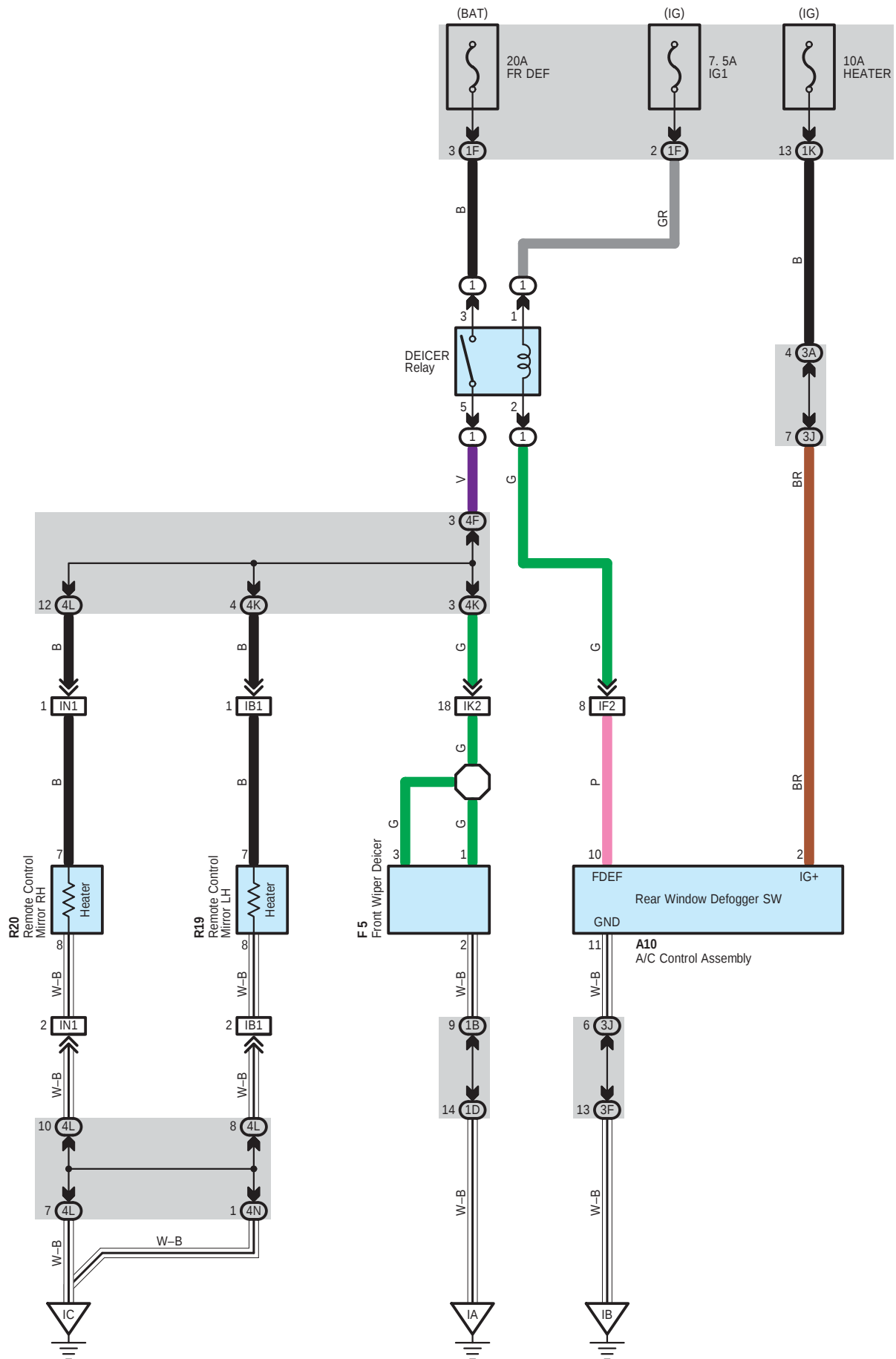
 : Connector Joining Wire Harness and Wire Harness

Code	See Page	Joining Wire Harness and Wire Harness (Connector Location)
IF3	54	Instrument Panel Wire and Cowl Wire (Right Side of Instrument Panel J/B)
IK3	55	Engine Room Main Wire and Cowl Wire (Right Cowl Side Panel)
IL1	55	Instrument Panel Wire and Cowl Wire (Right Cowl Side Panel)
IL2		
IT1	55	Floor No.2 Wire and Cowl Wire (Under the Shift Lever)

 : Ground Points

Code	See Page	Ground Points Location
IB	54	Right Instrument Panel Brace
IC	54	Right Cowl Side Panel
BC	56	Left Side of Rear Cross Member

Mirror Heater and Front Deicer



 : Parts Location

Code	See Page	Code	See Page	Code	See Page
A10	44	R19	47		
F5	42	R20	47		

 : Relay Blocks

Code	See Page	Relay Blocks (Relay Block Location)
1	26	R/B No.1 (Lower Finish Panel)

 : Junction Block and Wire Harness Connector

Code	See Page	Junction Block and Wire Harness (Connector Location)
1B	31	Engine Room Main Wire and Instrument Panel J/B (Lower Finish Panel)
1D	31	Cowl Wire and Instrument Panel J/B (Lower Finish Panel)
1F		
1K	30	Instrument Panel Wire and Instrument Panel J/B (Lower Finish Panel)
3A	34	Instrument Panel Wire and J/B No.3 (Behind the Instrument Panel Center)
3F		
3J	35	Cowl Wire and J/B No.4 (Right Side of Glove Box)
4F	39	
4K	38	
4L		
4N		

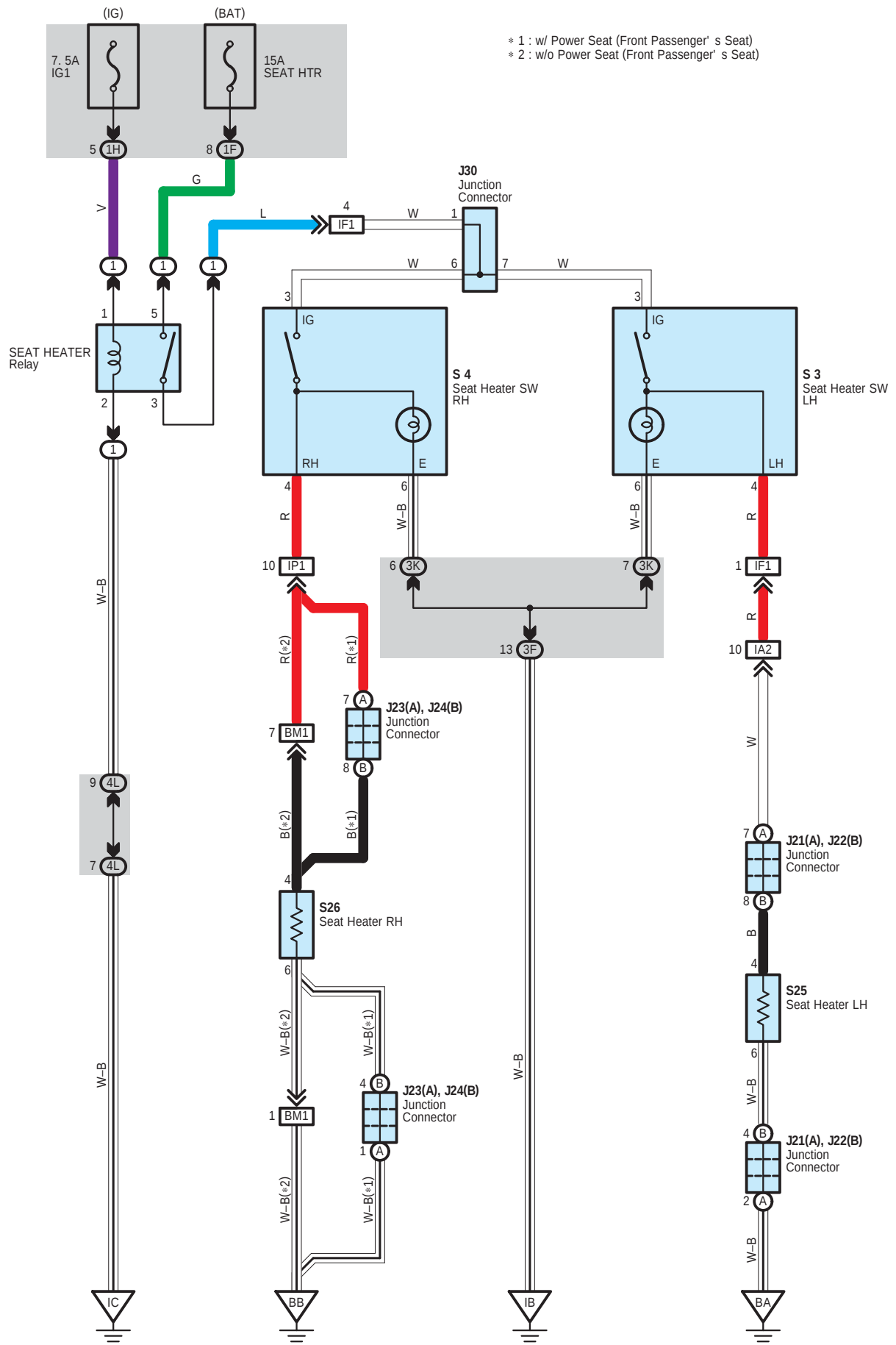
 : Connector Joining Wire Harness and Wire Harness

Code	See Page	Joining Wire Harness and Wire Harness (Connector Location)
IB1	54	Front Door LH Wire and Cowl Wire (Left Kick Panel)
IF2	54	Instrument Panel Wire and Cowl Wire (Right Side of Instrument Panel J/B)
IK2	55	Engine Room Main Wire and Cowl Wire (Right Cowl Side Panel)
IN1	55	Front Door RH Wire and Cowl Wire (Right Kick Panel)

 : Ground Points

Code	See Page	Ground Points Location
IA	54	Left Cowl Side Panel
IB	54	Right Instrument Panel Brace
IC	54	Right Cowl Side Panel

Seat Heater



 : Parts Location

Code		See Page	Code	See Page	Code	See Page
J21	A	48 (*1)	J30	45	S26	48 (*1)
J22	B	48 (*1)	S3	45		49 (*2)
J23	A	48 (*1)	S4	45		
J24	B	48 (*1)	S25	48 (*1)		

 : Relay Blocks

Code	See Page	Relay Blocks (Relay Block Location)
1	26	R/B No.1 (Lower Finish Panel)

 : Junction Block and Wire Harness Connector

Code	See Page	Junction Block and Wire Harness (Connector Location)
1F	31	Cowl Wire and Instrument Panel J/B (Lower Finish Panel)
1H		
3F	34	Instrument Panel Wire and J/B No.3 (Behind the Instrument Panel Center)
3K	35	
4L	38	Cowl Wire and J/B No.4 (Right Side of Glove Box)

 : Connector Joining Wire Harness and Wire Harness

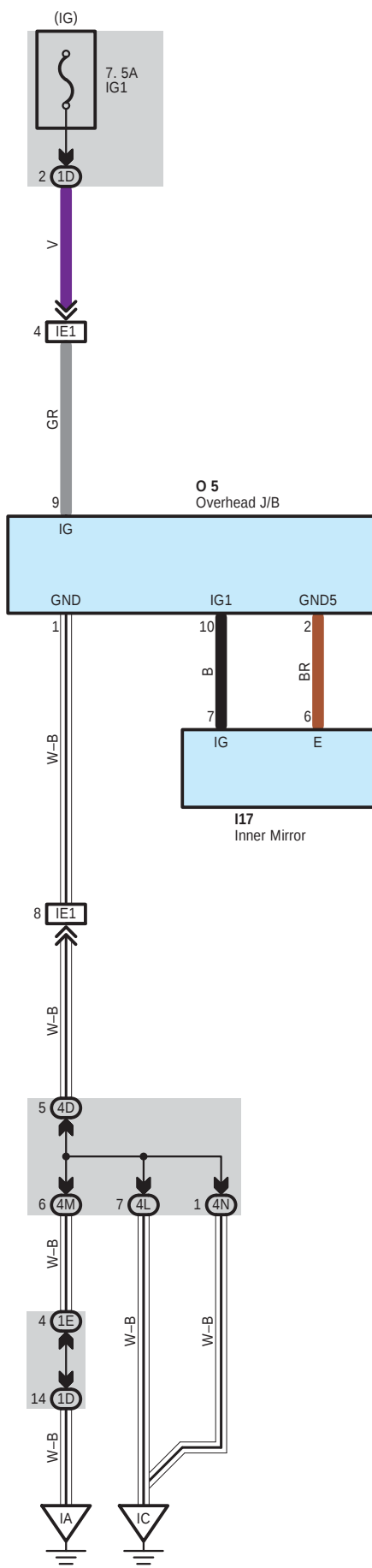
Code	See Page	Joining Wire Harness and Wire Harness (Connector Location)
IA2	54	Cowl Wire and Floor No.2 Wire (Left Kick Panel)
IF1	54	Instrument Panel Wire and Cowl Wire (Right Side of Instrument Panel J/B)
IP1	55	Instrument Panel Wire and Floor Wire (Right Cowl Side Panel)
BM1	59 (*2)	Floor Wire and Front Seat RH Wire (Under the Front Passenger's Seat)

 : Ground Points

Code	See Page	Ground Points Location
IB	54	Right Instrument Panel Brace
IC	54	Right Cowl Side Panel
BA	56	Left Center Pillar
BB	56	Right Center Pillar

* 1 : w/ Power Seat * 2 : w/o Power Seat

Automatic Glare-Resistant EC Mirror



 : Parts Location

Code	See Page	Code	See Page	Code	See Page
I17	46	O5	46		

 : Junction Block and Wire Harness Connector

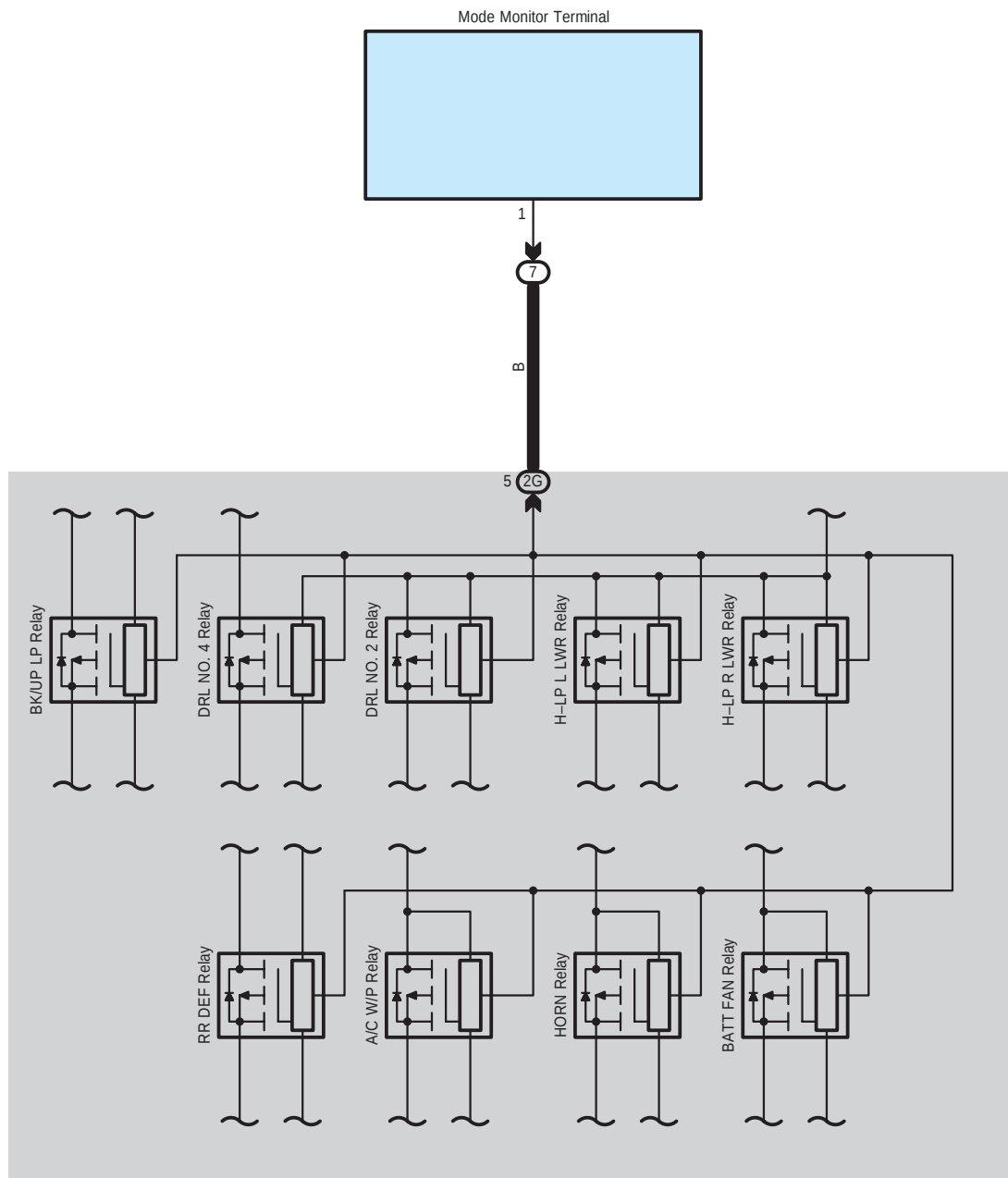
Code	See Page	Junction Block and Wire Harness (Connector Location)
1D	31	Cowl Wire and Instrument Panel J/B (Lower Finish Panel)
1E		
4D	39	Cowl Wire and J/B No.4 (Right Side of Glove Box)
4L	38	
4M		
4N		

 : Connector Joining Wire Harness and Wire Harness

Code	See Page	Joining Wire Harness and Wire Harness (Connector Location)
IE1	54	Roof Wire and Cowl Wire (Near the Bottom of Left Front Pillar)

 : Ground Points

Code	See Page	Ground Points Location
IA	54	Left Cowl Side Panel
IC	54	Right Cowl Side Panel

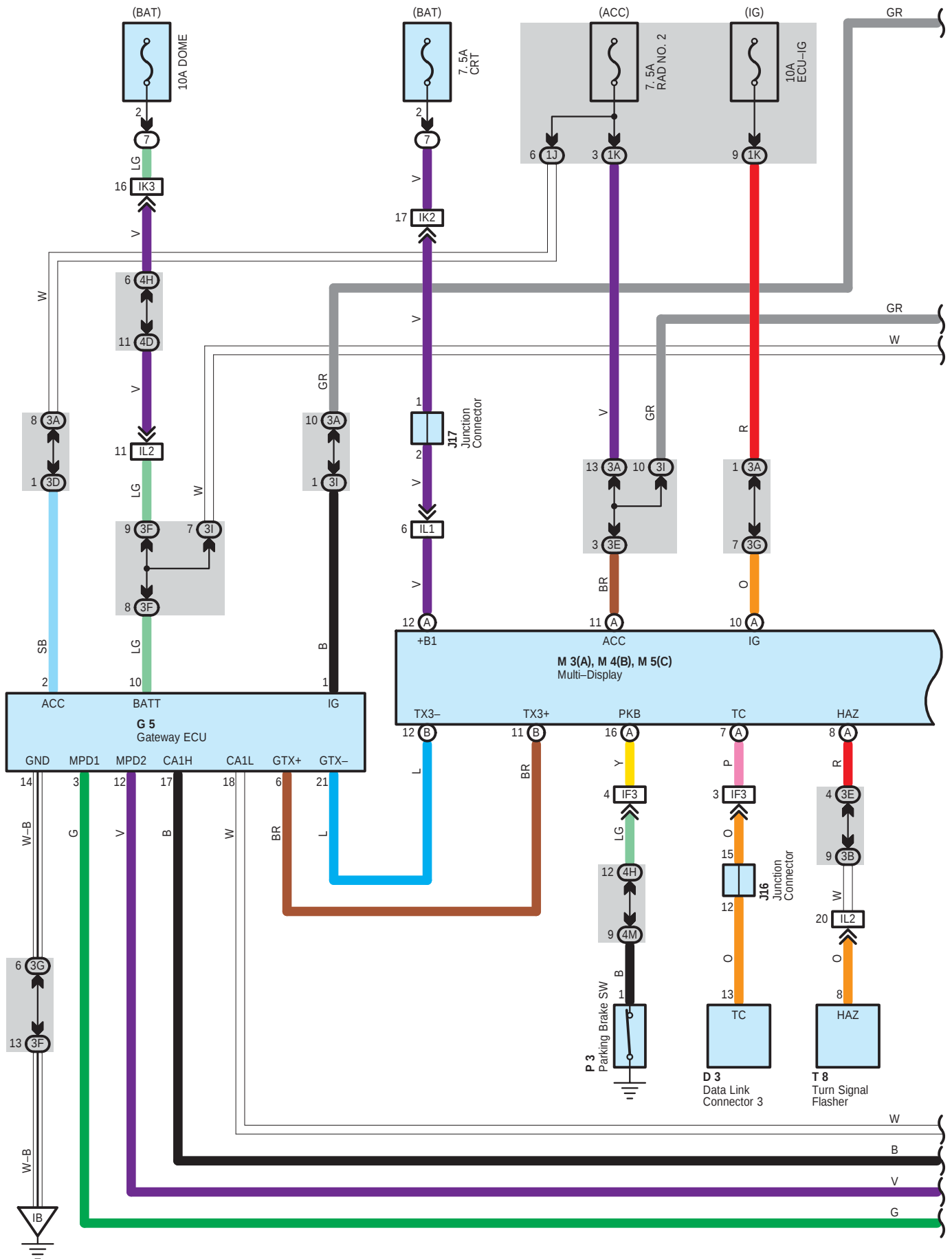


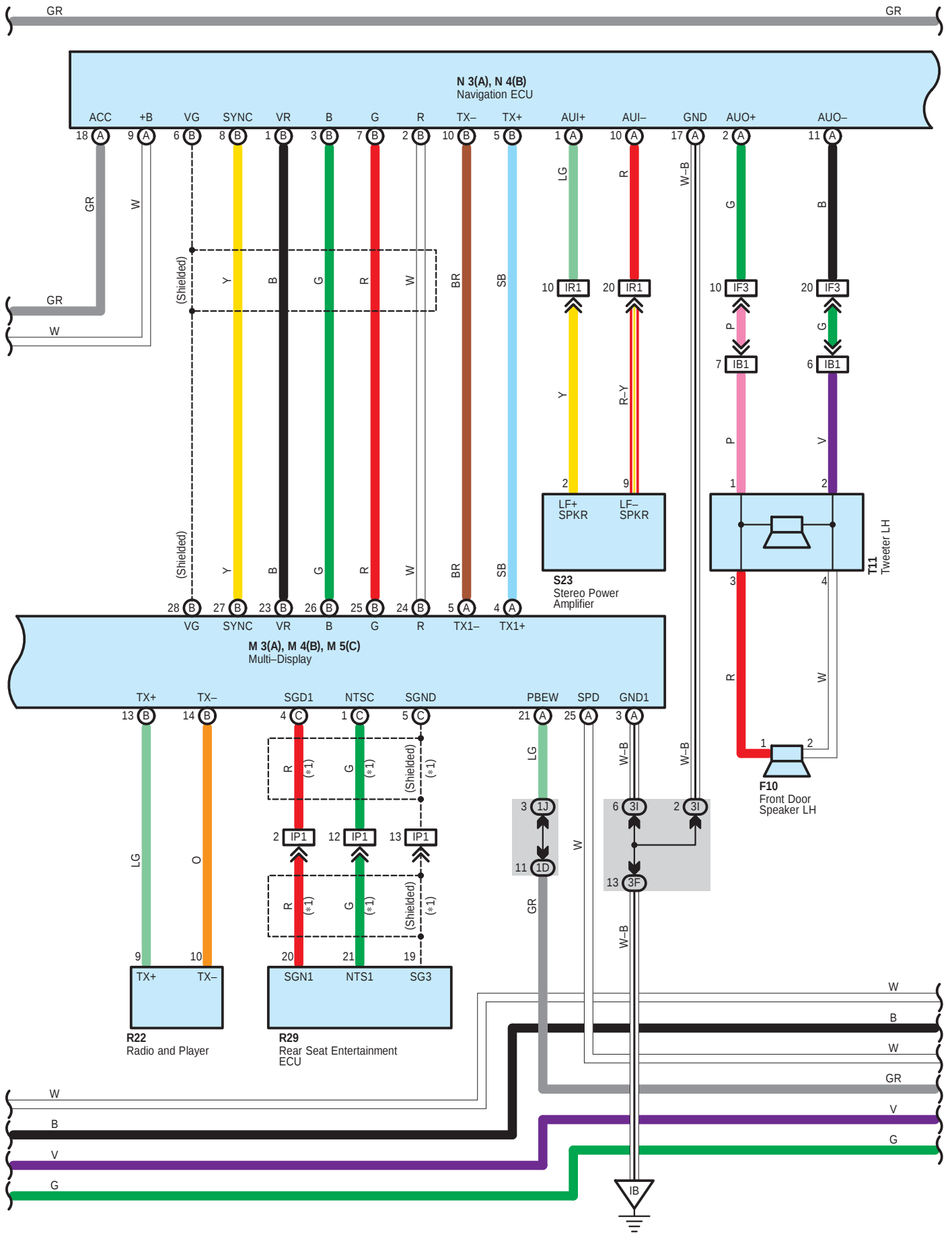
 : **Relay Blocks**

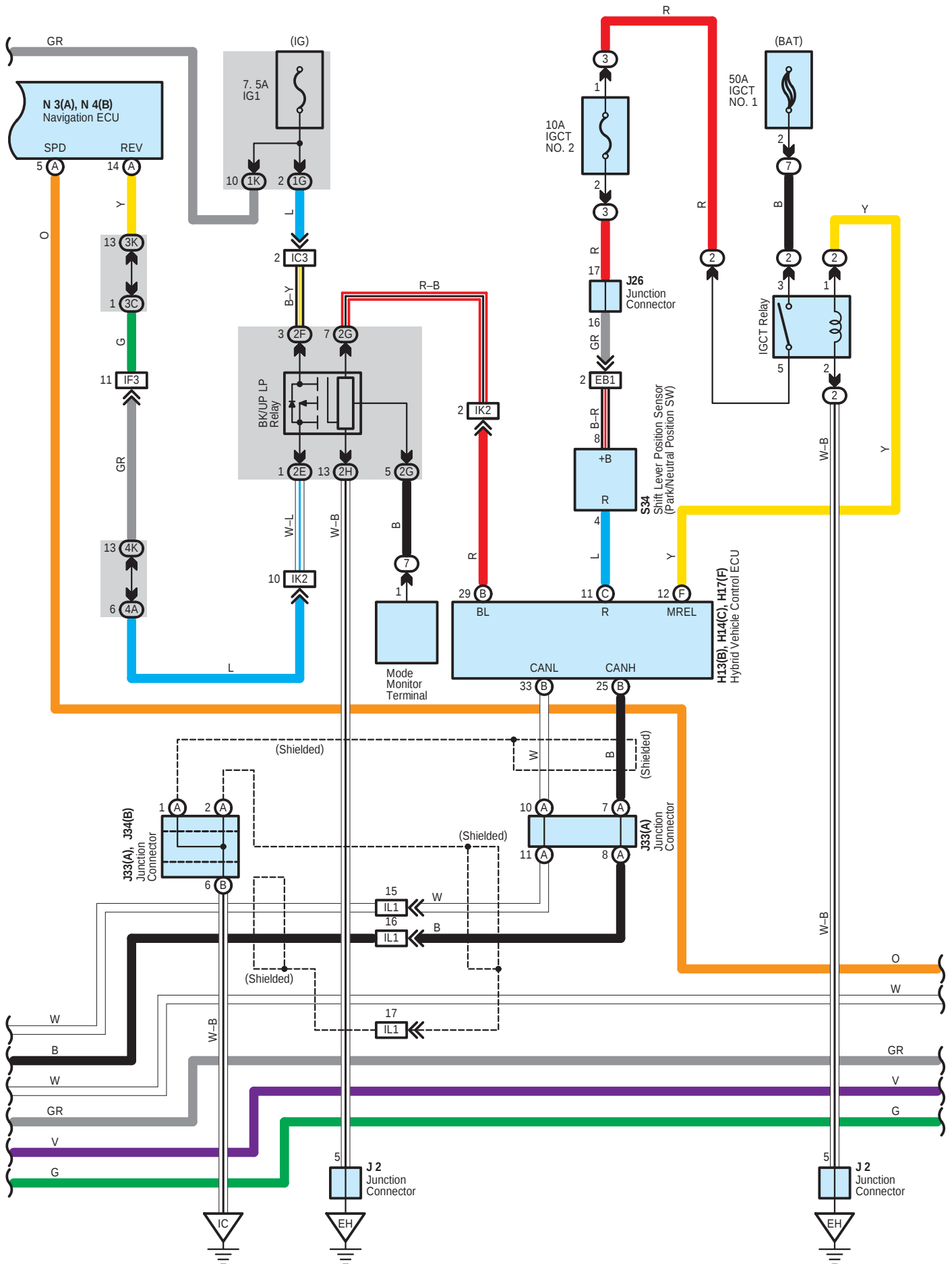
Code	See Page	Relay Blocks (Relay Block Location)
7	24	Fusible Link Block (Engine Compartment Left)

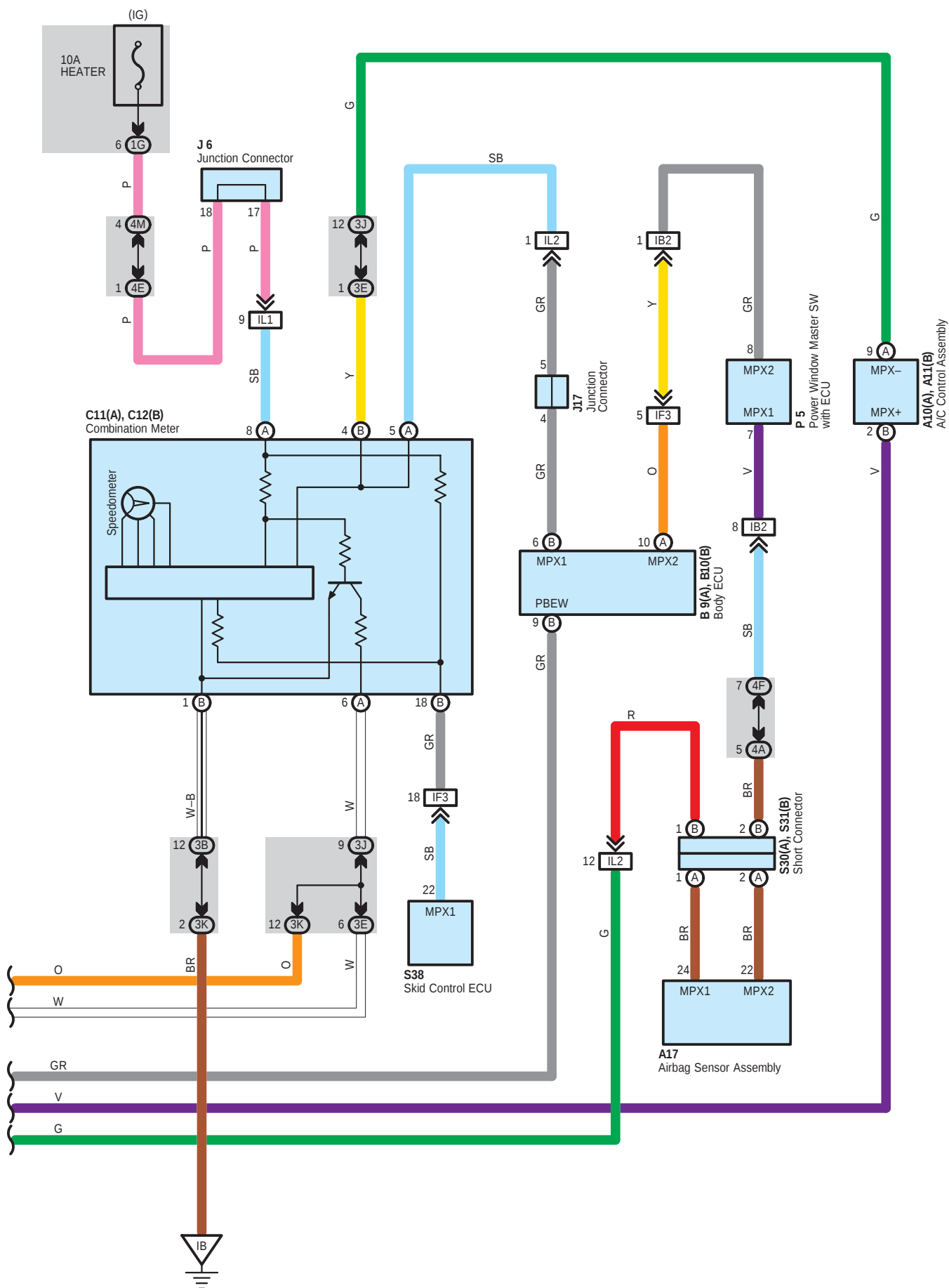
 : **Junction Block and Wire Harness Connector**

Code	See Page	Junction Block and Wire Harness (Connector Location)
2G	28	Engine Room Main Wire and Engine Room J/B (Engine Compartment Left)









Navigation System

: Parts Location

Code			See Page			Code			See Page			Code			See Page		
A10	A	44				H17	F	44				N4	B	45			
A11	B	44				J2		43				P3		45			
A17		44				J6		45				P5		46			
B9	A	44				J16		45				R22		45			
B10	B	44				J17		45				R29		47			
C11	A	44				J26		45				S23		47			
C12	B	44				J33	A	45				S30	A	45			
D3		44				J34	B	45				S31	B	45			
F10		46				M3	A	45				S34		43			
G5		44				M4	B	45				S38		45			
H13	B	44				M5	C	45				T8		45			
H14	C	44				N3	A	45				T11		47			

: Relay Blocks

Code	See Page	Relay Blocks (Relay Block Location)
2	25	R/B No.2 (Engine Compartment Left)
3	26	R/B No.3 (Engine Compartment Left)
7	24	Fusible Link Block (Engine Compartment Left)

: Junction Block and Wire Harness Connector

Code	See Page	Junction Block and Wire Harness (Connector Location)
1D	31	Cowl Wire and Instrument Panel J/B (Lower Finish Panel)
1G		
1J	30	Instrument Panel Wire and Instrument Panel J/B (Lower Finish Panel)
1K		
2E	28	Engine Room Main Wire and Engine Room J/B (Engine Compartment Left)
2F		
2G		
2H		
3A	34	Instrument Panel Wire and J/B No.3 (Behind the Instrument Panel Center)
3B		
3C		
3D		
3E		
3F		
3G	35	
3I		
3J		
3K		
4A	39	Cowl Wire and J/B No.4 (Right Side of Glove Box)
4D		
4E		
4F		
4H		
4K	38	
4M		

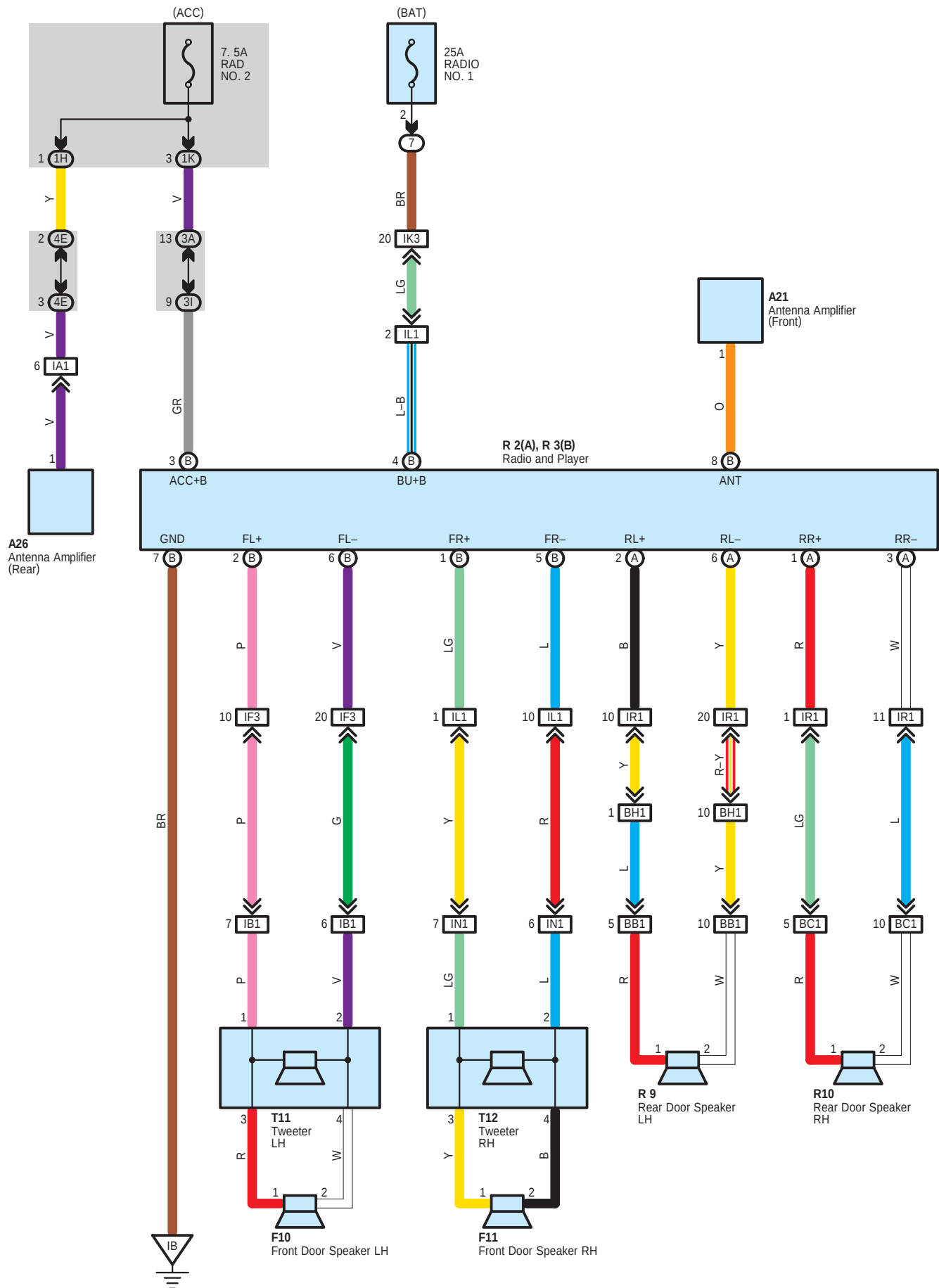
 : Connector Joining Wire Harness and Wire Harness

Code	See Page	Joining Wire Harness and Wire Harness (Connector Location)
EB1	52	Engine Wire and Engine Room Main Wire (Front Side of Engine Room R/B No.4)
IB1	54	Front Door LH Wire and Cowl Wire (Left Kick Panel)
IB2		
IC3	54	Engine Room Main Wire and Cowl Wire (Left Cowl Side Panel)
IF3	54	Instrument Panel Wire and Cowl Wire (Right Side of Instrument Panel J/B)
IK2	55	Engine Room Main Wire and Cowl Wire (Right Cowl Side Panel)
IK3		
IL1	55	Instrument Panel Wire and Cowl Wire (Right Cowl Side Panel)
IL2		
IP1	55	Instrument Panel Wire and Floor Wire (Right Cowl Side Panel)
IR1	55	Instrument Panel Wire and Floor Wire (Under the Shift Lever)

 : Ground Points

Code	See Page	Ground Points Location
EH	52	Under the Left Headlight
IB	54	Right Instrument Panel Brace
IC	54	Right Cowl Side Panel

Audio System with 6 Speaker



 : Parts Location

Code	See Page	Code		See Page	Code	See Page
A21	44	R2	A	45	T11	47
A26	46	R3	B	45	T12	47
F10	46	R9		47		
F11	46	R10		47		

 : Relay Blocks

Code	See Page	Relay Blocks (Relay Block Location)
7	24	Fusible Link Block (Engine Compartment Left)

 : Junction Block and Wire Harness Connector

Code	See Page	Junction Block and Wire Harness (Connector Location)
1H	31	Cowl Wire and Instrument Panel J/B (Lower Finish Panel)
1K	30	Instrument Panel Wire and Instrument Panel J/B (Lower Finish Panel)
3A	34	Instrument Panel Wire and J/B No.3 (Behind the Instrument Panel Center)
3I	35	
4E	39	Cowl Wire and J/B No.4 (Right Side of Glove Box)

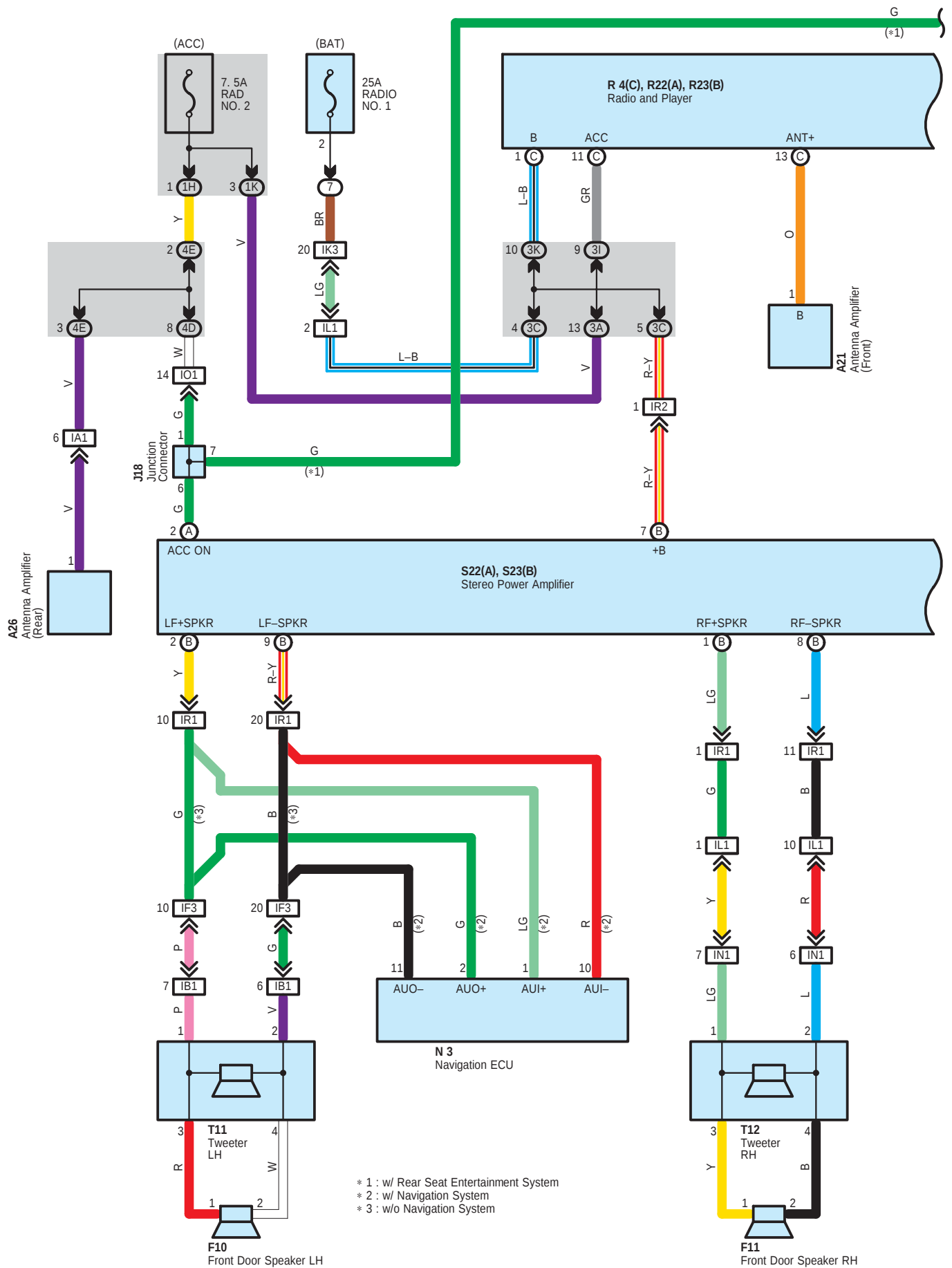
 : Connector Joining Wire Harness and Wire Harness

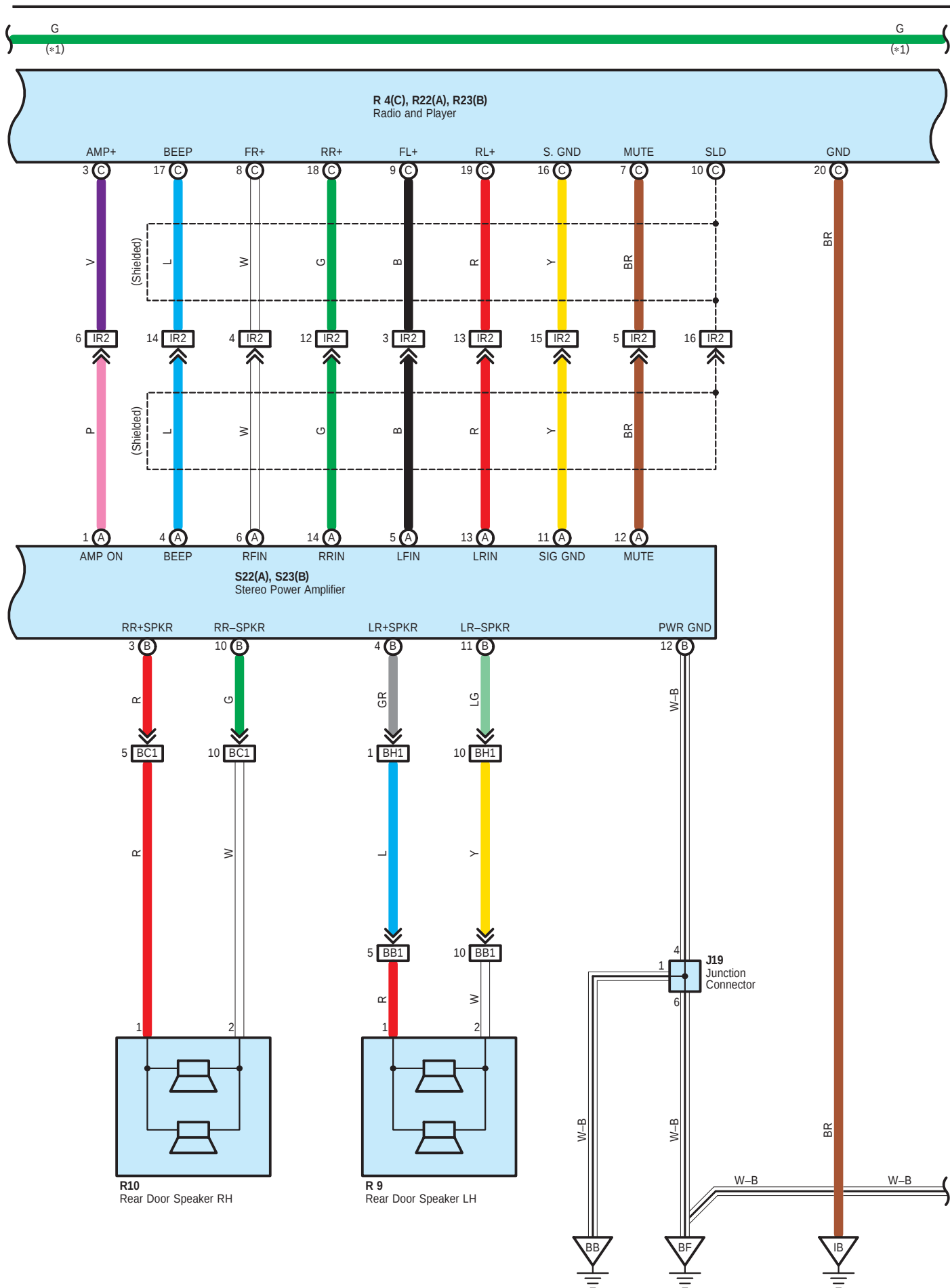
Code	See Page	Joining Wire Harness and Wire Harness (Connector Location)
IA1	54	Cowl Wire and Floor No.2 Wire (Left Kick Panel)
IB1	54	Front Door LH Wire and Cowl Wire (Left Kick Panel)
IF3	54	Instrument Panel Wire and Cowl Wire (Right Side of Instrument Panel J/B)
IK3	55	Engine Room Main Wire and Cowl Wire (Right Cowl Side Panel)
IL1	55	Instrument Panel Wire and Cowl Wire (Right Cowl Side Panel)
IN1	55	Front Door RH Wire and Cowl Wire (Right Kick Panel)
IR1	55	Instrument Panel Wire and Floor Wire (Under the Shift Lever)
BB1	56	Rear Door No.1 LH Wire and Floor No.2 Wire (Left Center Pillar)
BC1	56	Rear Door No.1 RH Wire and Floor Wire (Right Center Pillar)
BH1	56	Floor No.2 Wire and Floor Wire (Near the Rear Side Marker Light RH)

 : Ground Points

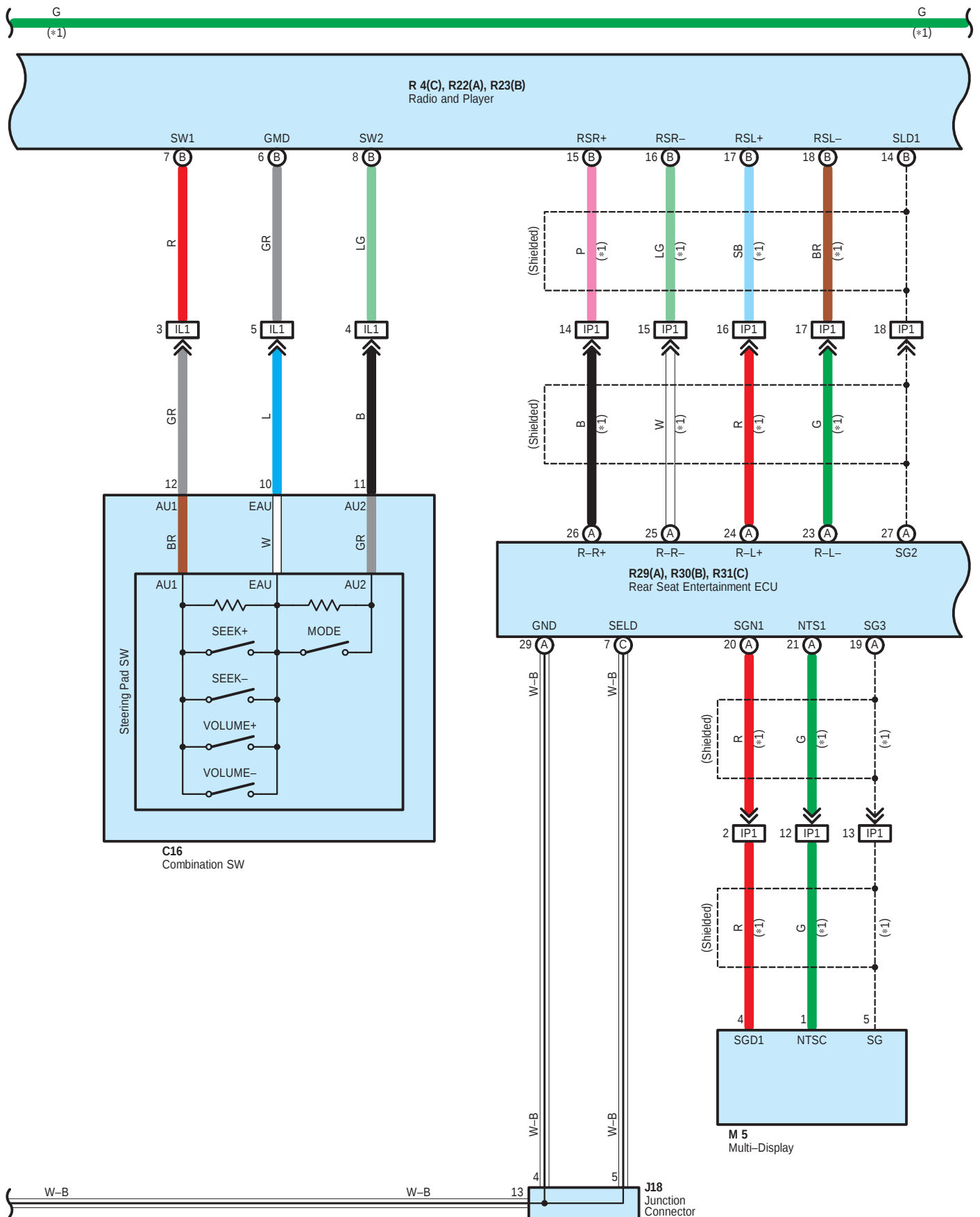
Code	See Page	Ground Points Location
IB	54	Right Instrument Panel Brace

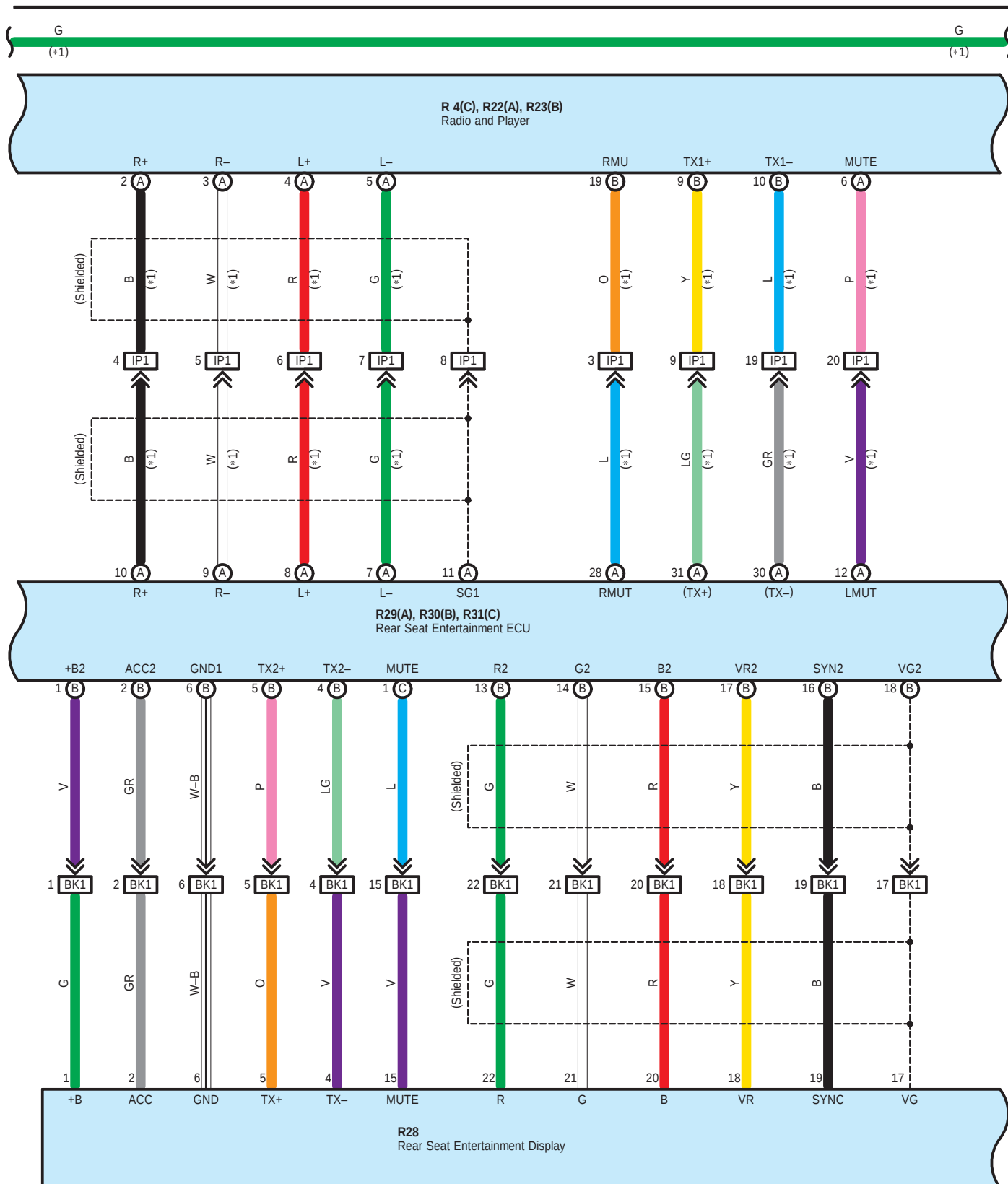
Audio System with 8 Speaker





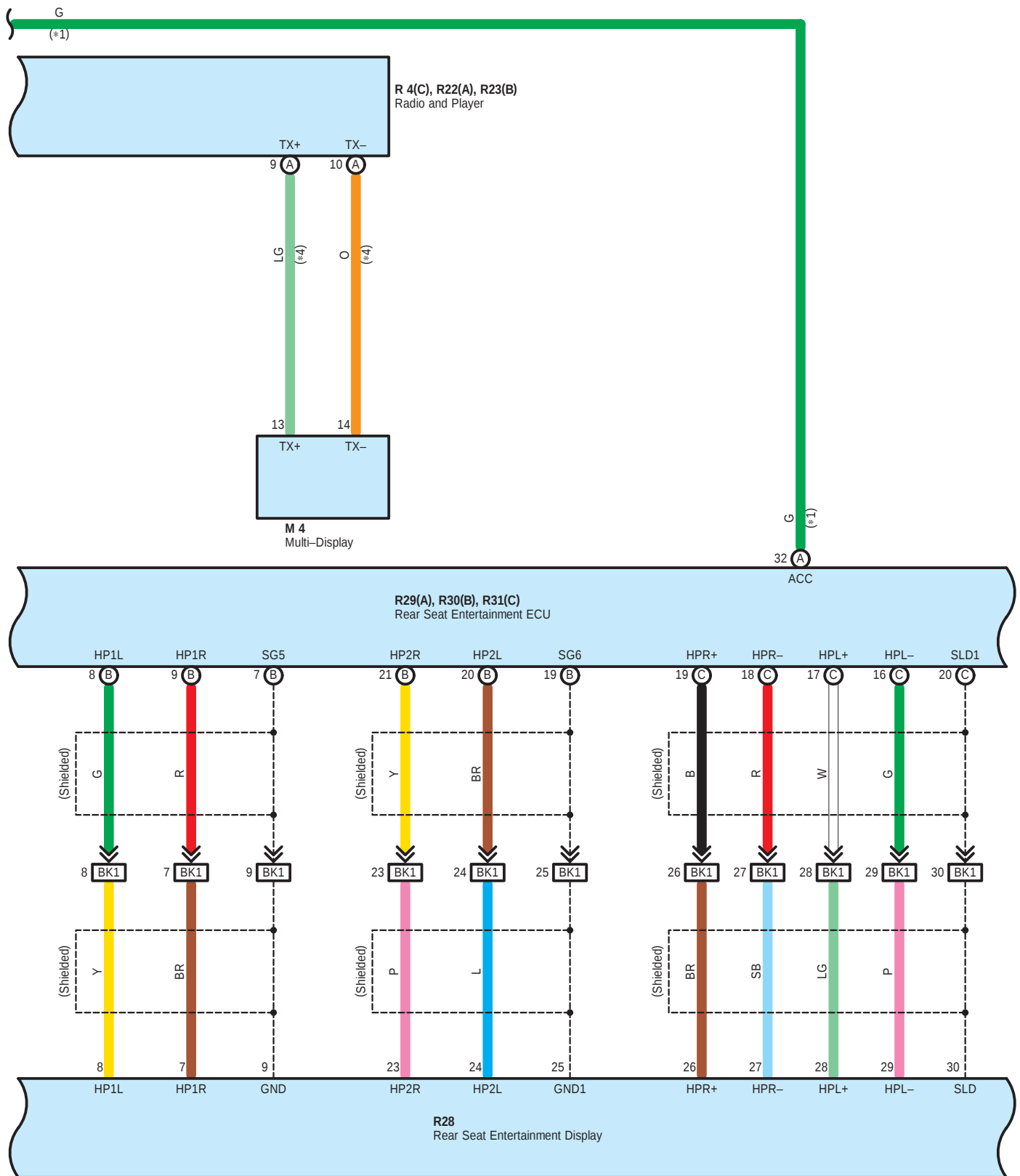
Audio System with 8 Speaker





* 1 : w/ Rear Seat Entertainment System

Audio System with 8 Speaker



Audio System with 8 Speaker

: Parts Location

Code	See Page	Code	See Page	Code	See Page
A21	44	M5	45	R30	B 47
A26	46	N3	45	R31	C 47
C16	44	R4	C 45	S22	A 47
F10	46	R9	47	S23	B 47
F11	46	R10	47	T11	47
J17	45	R22	A 45	T12	47
J18	46	R23	B 45	V13	47
J19	46	R28	47		
M4	45	R29	A 47		

: Relay Blocks

Code	See Page	Relay Blocks (Relay Block Location)
7	24	Fusible Link Block (Engine Compartment Left)

: Junction Block and Wire Harness Connector

Code	See Page	Junction Block and Wire Harness (Connector Location)
1H	31	Cowl Wire and Instrument Panel J/B (Lower Finish Panel)
1K	30	Instrument Panel Wire and Instrument Panel J/B (Lower Finish Panel)
3A	34	Instrument Panel Wire and J/B No.3 (Behind the Instrument Panel Center)
3C		
3I	35	
3K		
4D	39	Cowl Wire and J/B No.4 (Right Side of Glove Box)
4E		

: Connector Joining Wire Harness and Wire Harness

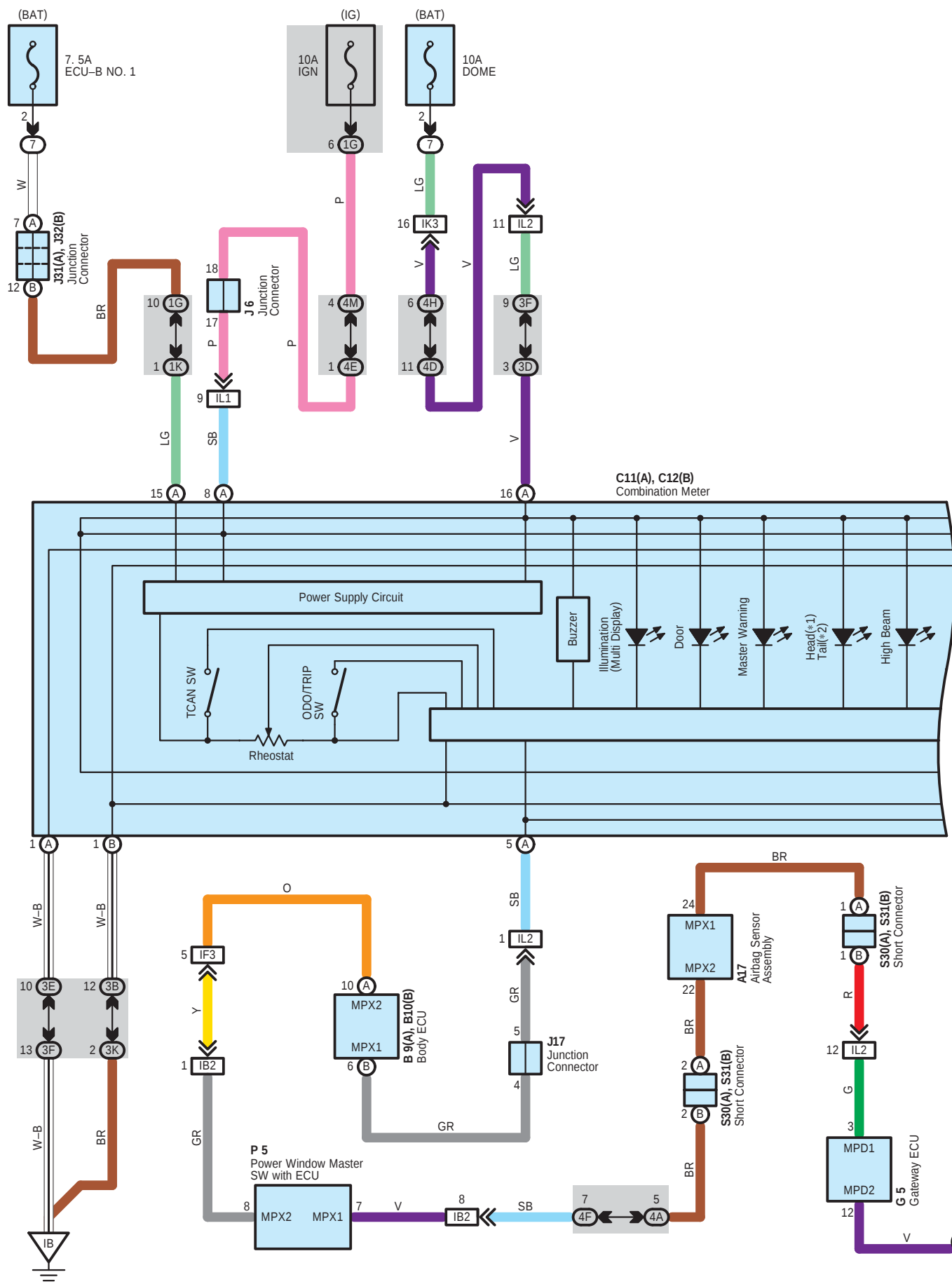
Code	See Page	Joining Wire Harness and Wire Harness (Connector Location)
IA1	54	Cowl Wire and Floor No.2 Wire (Left Kick Panel)
IB1	54	Front Door LH Wire and Cowl Wire (Left Kick Panel)
IF3	54	Instrument Panel Wire and Cowl Wire (Right Side of Instrument Panel J/B)
IK2	55	Engine Room Main Wire and Cowl Wire (Right Cowl Side Panel)
IK3		
IL1	55	Instrument Panel Wire and Cowl Wire (Right Cowl Side Panel)
IN1	55	Front Door RH Wire and Cowl Wire (Right Kick Panel)
IO1	55	Cowl Wire and Floor Wire (Right Kick Panel)
IO2		
IP1	55	Instrument Panel Wire and Floor Wire (Right Cowl Side Panel)
IR1	55	Instrument Panel Wire and Floor Wire (Under the Shift Lever)
IR2		
BB1	56	Rear Door No.1 LH Wire and Floor No.2 Wire (Left Center Pillar)
BC1	56	Rear Door No.1 RH Wire and Floor Wire (Right Center Pillar)
BH1	56	Floor No.2 Wire and Floor Wire (Near the Rear Side Marker Light RH)
BK1	56	Roof No.2 Wire and Floor Wire (Right Rear Quarter Panel)

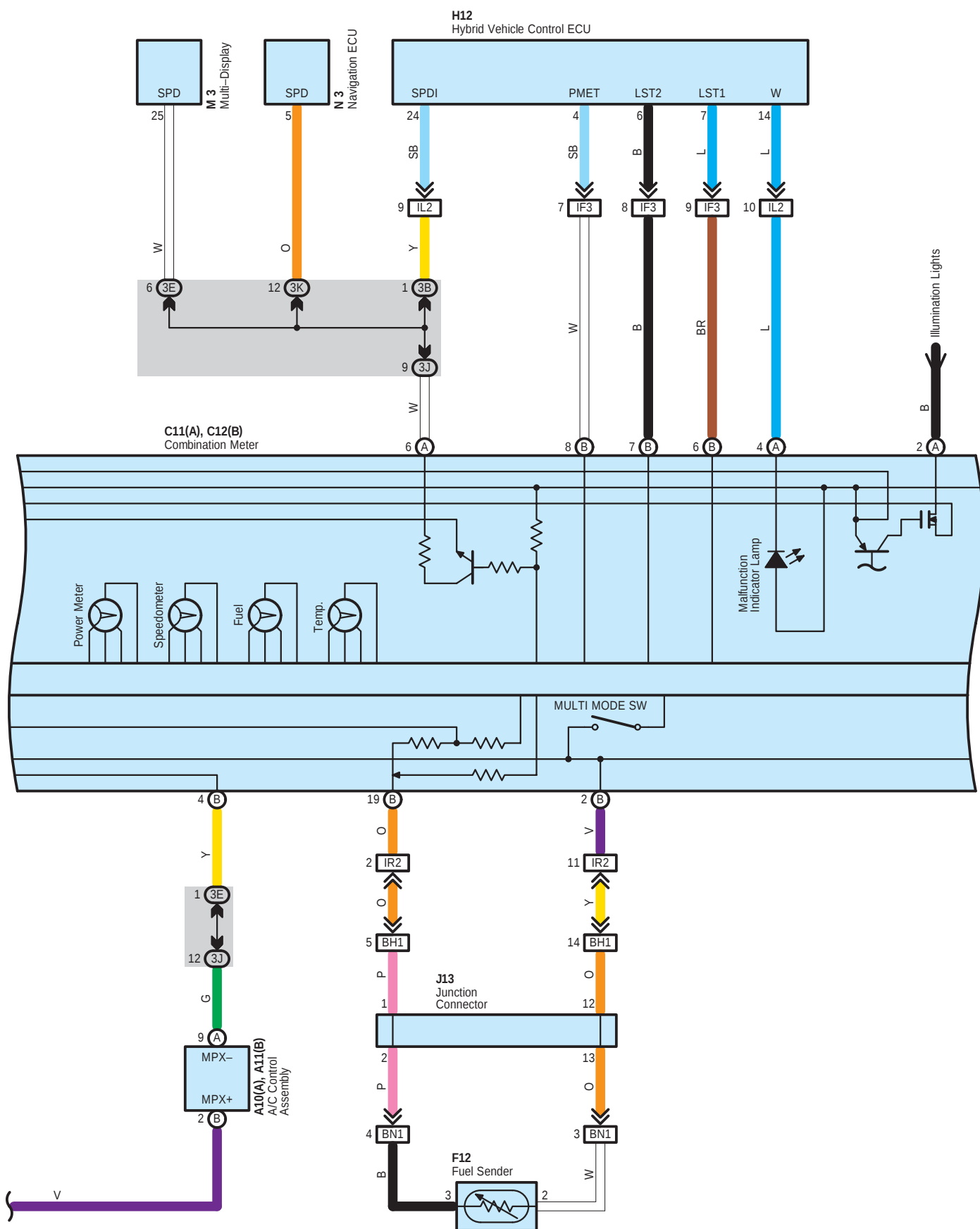
: Ground Points

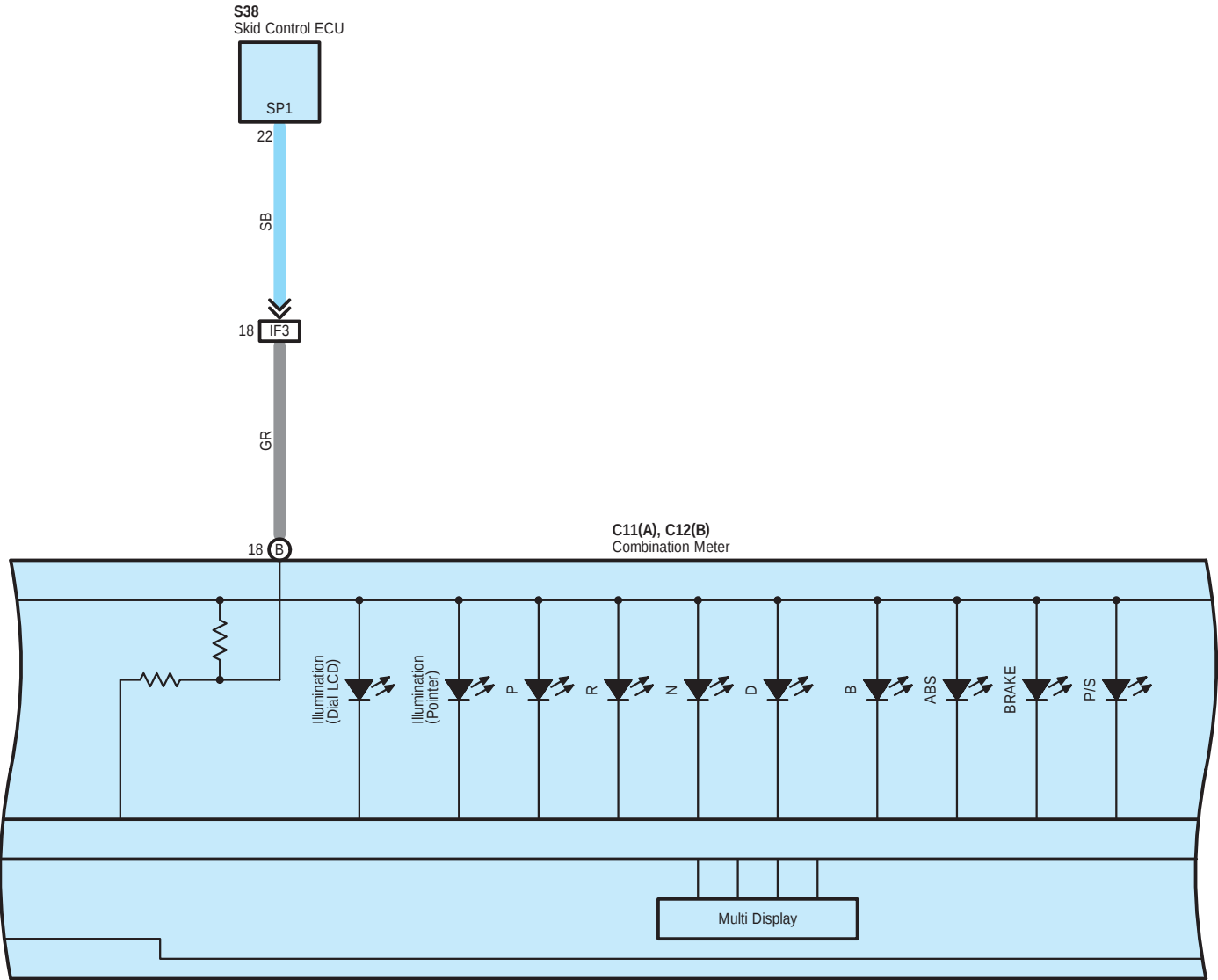
Code	See Page	Ground Points Location
IB	54	Right Instrument Panel Brace
BB	56	Right Center Pillar
BF	56	Near the Rear Side Marker Light RH

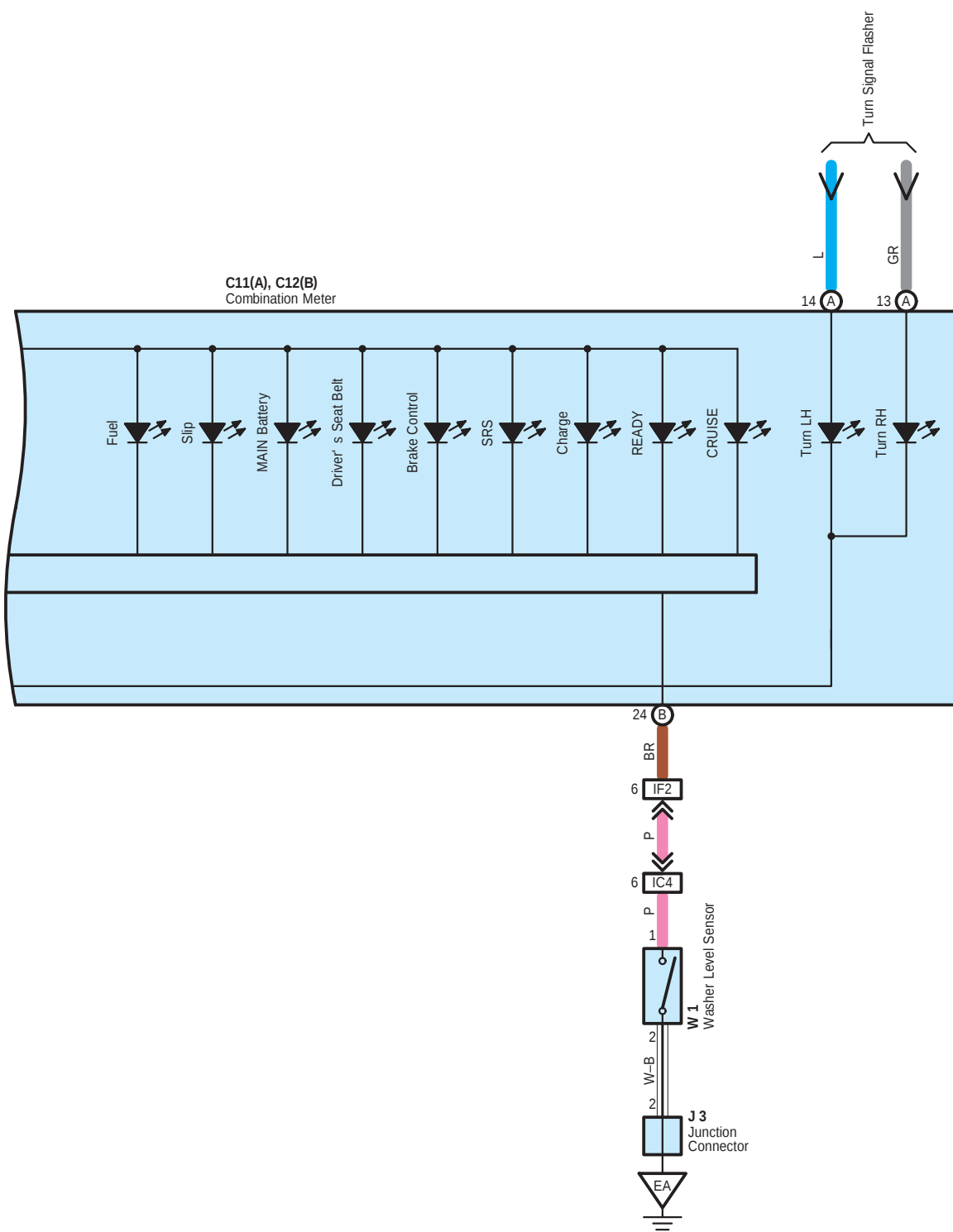
Combination Meter

* 1 : USA
* 2 : Canada









Combination Meter

: Parts Location

Code			See Page			Code			See Page			Code			See Page		
A10	A	44				G5	44					M3	45				
A11	B	44				H12	44					N3	45				
A17		44				J3	43					P5	46				
B9	A	44				J6	45					S30	A	45			
B10	B	44				J13	46					S31	B	45			
C11	A	44				J17	45					S38		45			
C12	B	44				J31	A	45				W1		43			
F12		46				J32	B	45									

: Relay Blocks

Code	See Page	Relay Blocks (Relay Block Location)
7	24	Fusible Link Block (Engine Compartment Left)

: Junction Block and Wire Harness Connector

Code	See Page	Junction Block and Wire Harness (Connector Location)
1G	31	Cowl Wire and Instrument Panel J/B (Lower Finish Panel)
1K	30	Instrument Panel Wire and Instrument Panel J/B (Lower Finish Panel)
3B	34	Instrument Panel Wire and J/B No.3 (Behind the Instrument Panel Center)
3D		
3E		
3F		
3J		
3K	35	
4A	39	Cowl Wire and J/B No.4 (Right Side of Glove Box)
4D		
4E		
4F		
4H		
4M	38	

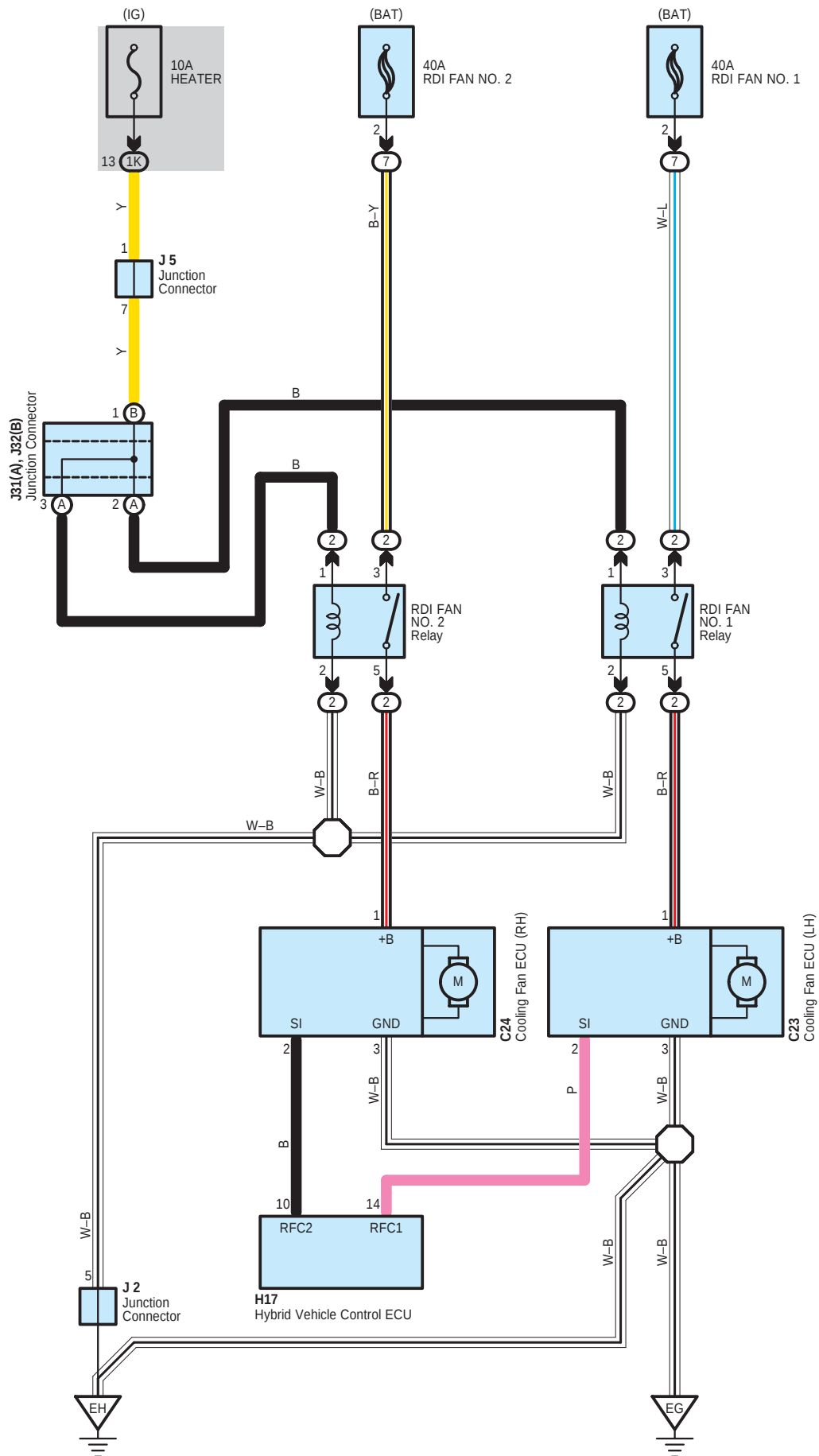
: Connector Joining Wire Harness and Wire Harness

Code	See Page	Joining Wire Harness and Wire Harness (Connector Location)
IB2	54	Front Door LH Wire and Cowl Wire (Left Kick Panel)
IC4	54	Engine Room Main Wire and Cowl Wire (Left Cowl Side Panel)
IF2	54	Instrument Panel Wire and Cowl Wire (Right Side of Instrument Panel J/B)
IF3		
IK3	55	Engine Room Main Wire and Cowl Wire (Right Cowl Side Panel)
IL1	55	Instrument Panel Wire and Cowl Wire (Right Cowl Side Panel)
IL2		
IR2	55	Instrument Panel Wire and Floor Wire (Under the Shift Lever)
BH1	56	Floor No.2 Wire and Floor Wire (Near the Rear Side Marker Light RH)
BN1	56	Fuel Tank Wire and Floor No.2 Wire (Front Side of Rear Quarter Wheel House LH)

: Ground Points

Code	See Page	Ground Points Location
EA	52	Right Front Fender Apron
IB	54	Right Instrument Panel Brace

Radiator Fan



 : **Parts Location**

Code	See Page	Code	See Page	Code	See Page
C23	42	H17	44	J31	A 45
C24	42	J2	43	J32	B 45

 : **Relay Blocks**

Code	See Page	Relay Blocks (Relay Block Location)
2	25	R/B No.2 (Engine Compartment Left)
7	24	Fusible Link Block (Engine Compartment Left)

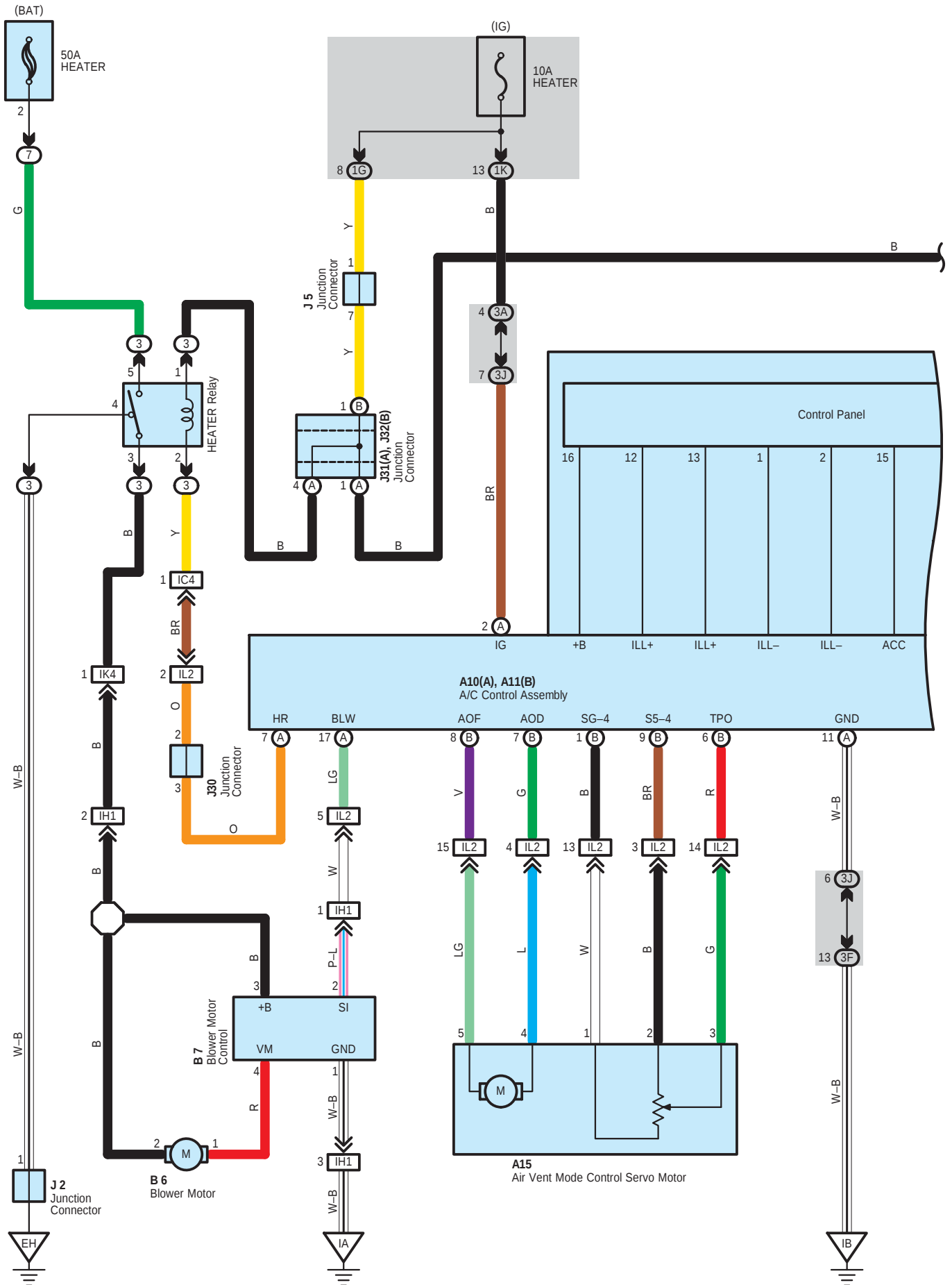
 : **Junction Block and Wire Harness Connector**

Code	See Page	Junction Block and Wire Harness (Connector Location)
1K	30	Instrument Panel Wire and Instrument Panel J/B (Lower Finish Panel)

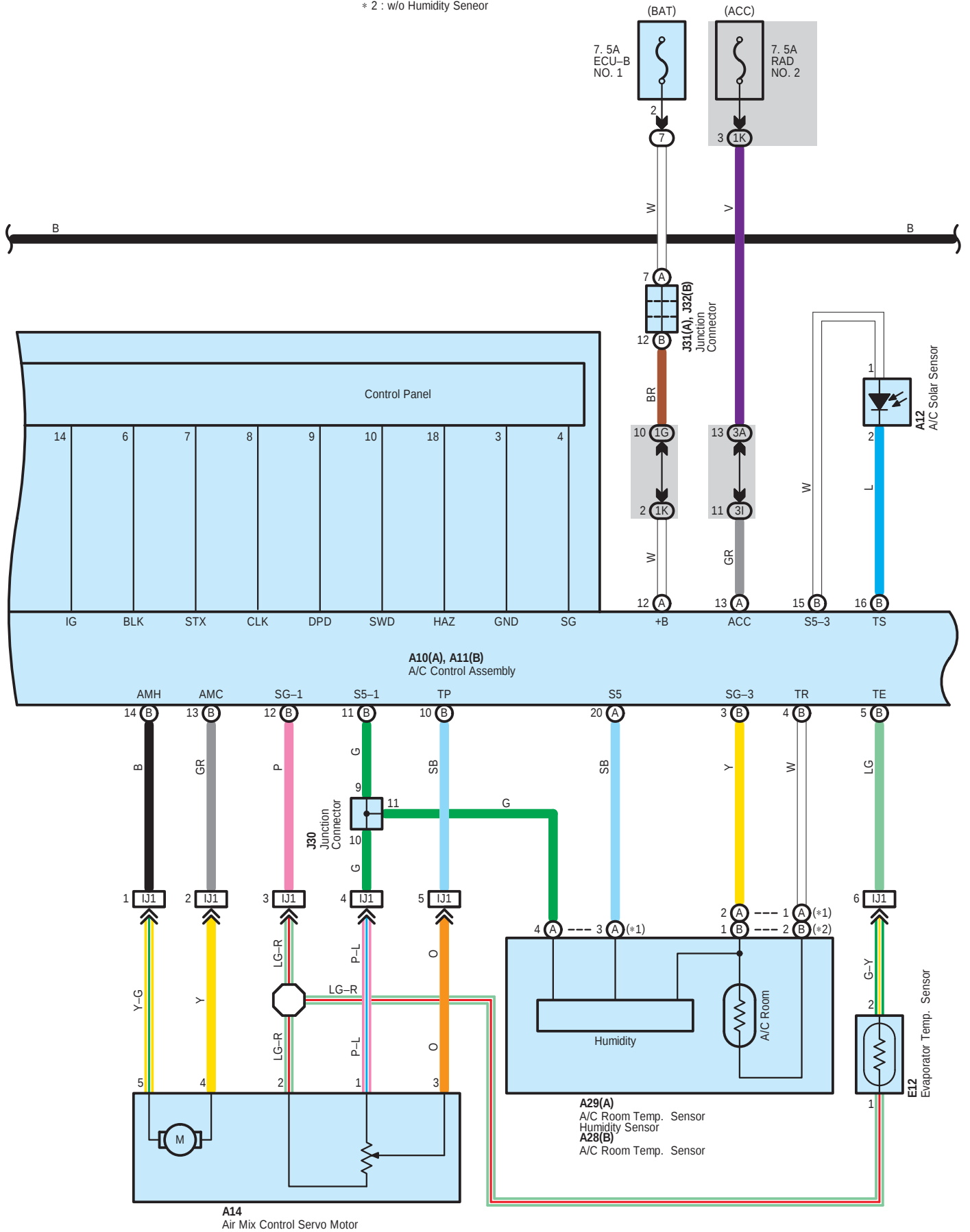
 : **Ground Points**

Code	See Page	Ground Points Location
EG	52	Under the Left Headlight
EH		

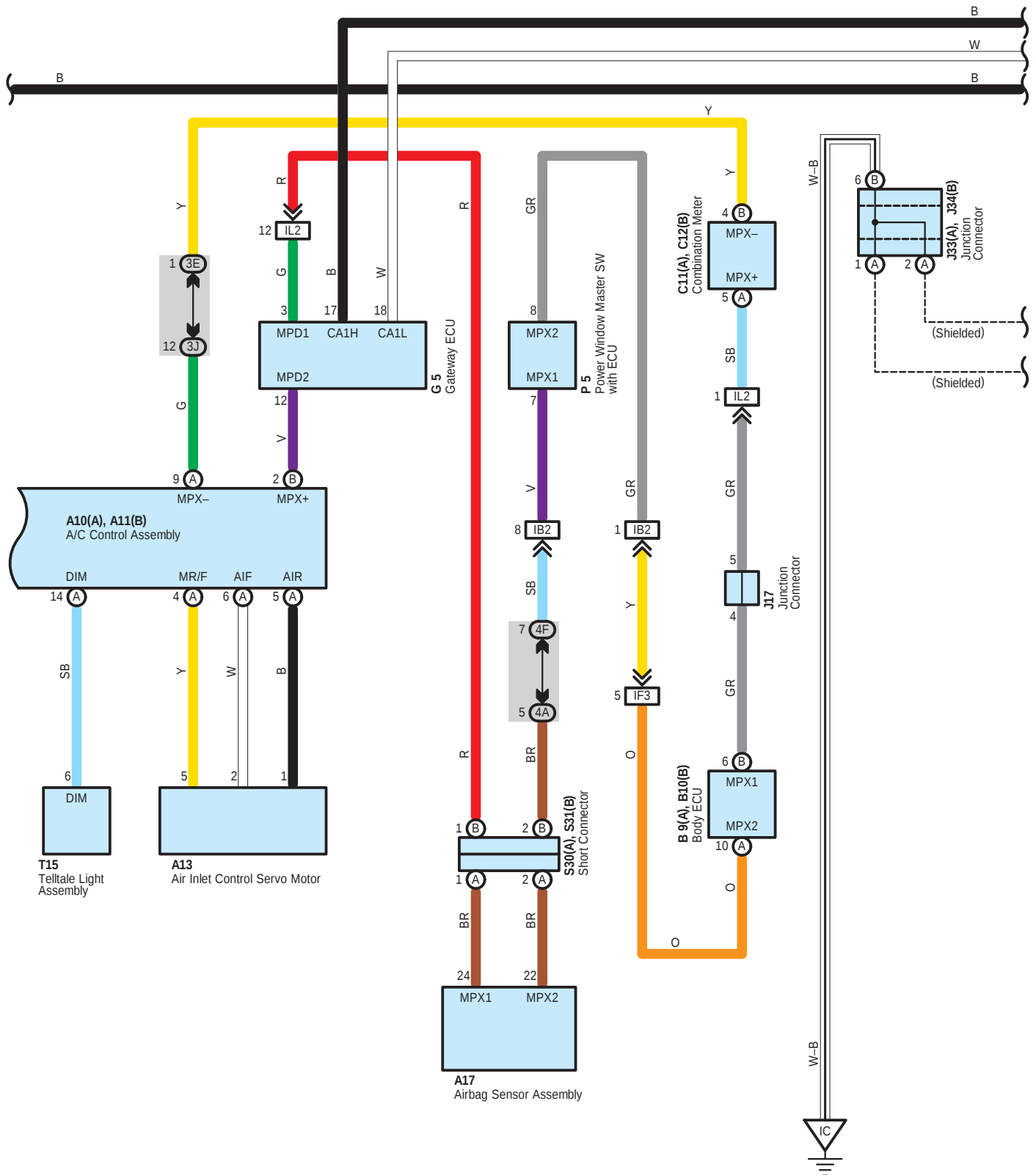
Automatic Air Conditioning

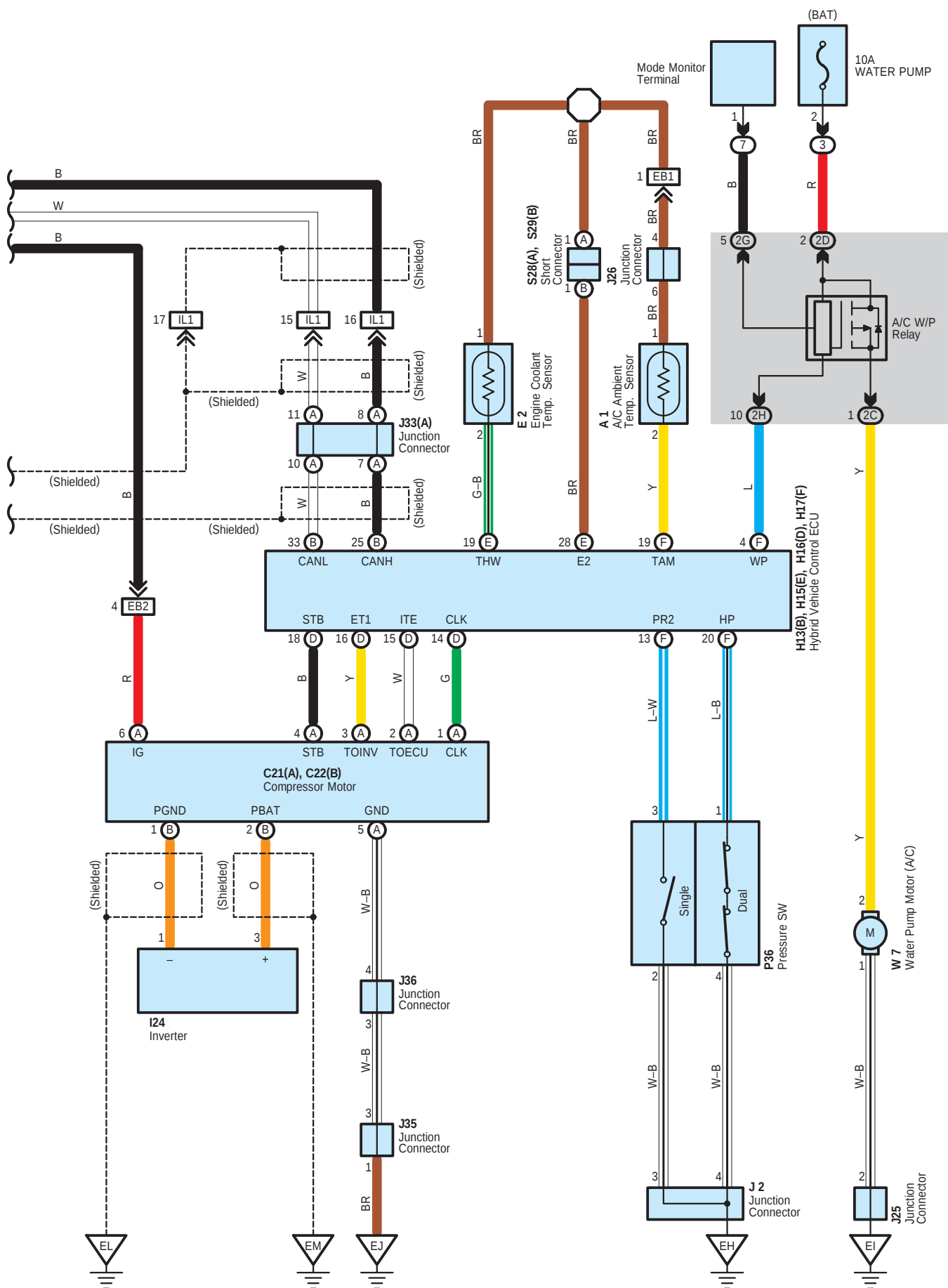


- * 1 : w/ Humidity Seneor
- * 2 : w/o Humidity Seneor



Automatic Air Conditioning





Automatic Air Conditioning

System Outline

Air Conditioning Operation

A/C control assembly calculates target cooled temperature from information such as that of operating SWs, room temperature, humidity, ambient temperature and insolation to have target running speed of compressor motor. The calculated control signal is sent to inverter to drive compressor motor (Electric motor) with control of inverter, resulting in operating A/C.

○ : Parts Location

Code		See Page	Code		See Page	Code		See Page
A1		42	C21	A	42	J31	A	45
A10	A	44	C22	B	42	J32	B	45
A11	B	44	E2		42	J33	A	45
A12		44	E12		44	J34	B	45
A13		44	G5		44	J35		45
A14		44	H13	B	44	J36		45
A15		44	H15	E	44	P5		46
A17		44	H16	D	44	P36		43
A28	B	44	H17	F	44	S28	A	45
A29	A	44	I24		43	S29	B	45
B6		44	J2		43	S30	A	45
B7		44	J5		45	S31	B	45
B9	A	44	J17		45	T15		45
B10	B	44	J25		43	W7		43
C11	A	44	J26		45			
C12	B	44	J30		45			

○ : Relay Blocks

Code	See Page	Relay Blocks (Relay Block Location)
3	26	R/B No.3 (Engine Compartment Left)
7	24	Fusible Link Block (Engine Compartment Left)

○ : Junction Block and Wire Harness Connector

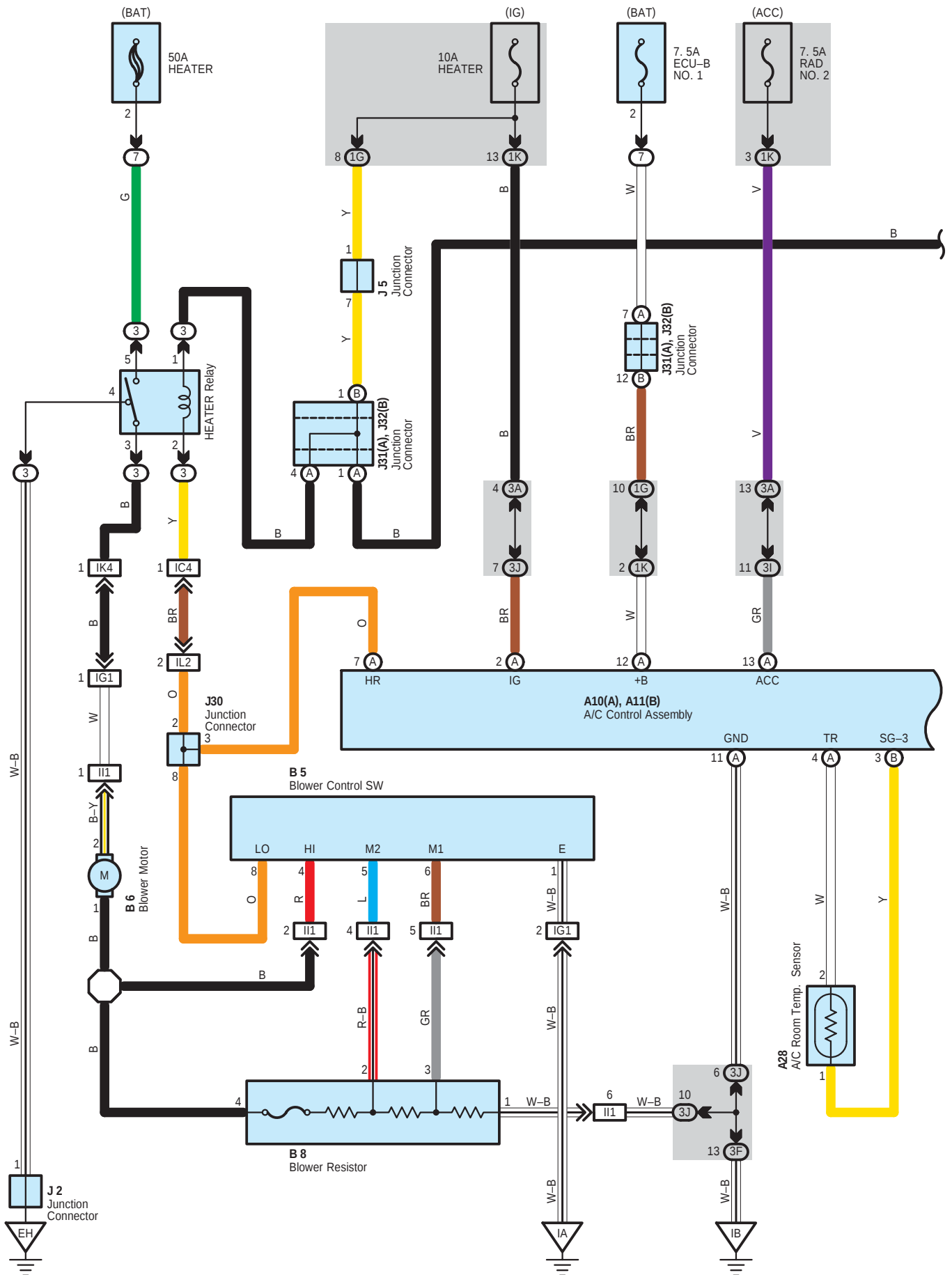
Code	See Page	Junction Block and Wire Harness (Connector Location)
1G	31	Cowl Wire and Instrument Panel J/B (Lower Finish Panel)
1K	30	Instrument Panel Wire and Instrument Panel J/B (Lower Finish Panel)
2C	28	Engine Room Main Wire and Engine Room J/B (Engine Compartment Left)
2D		
2G		
2H		
3A	34	Instrument Panel Wire and J/B No.3 (Behind the Instrument Panel Center)
3E		
3F		
3I	35	
3J		
4A	39	Cowl Wire and J/B No.4 (Right Side of Glove Box)
4F		

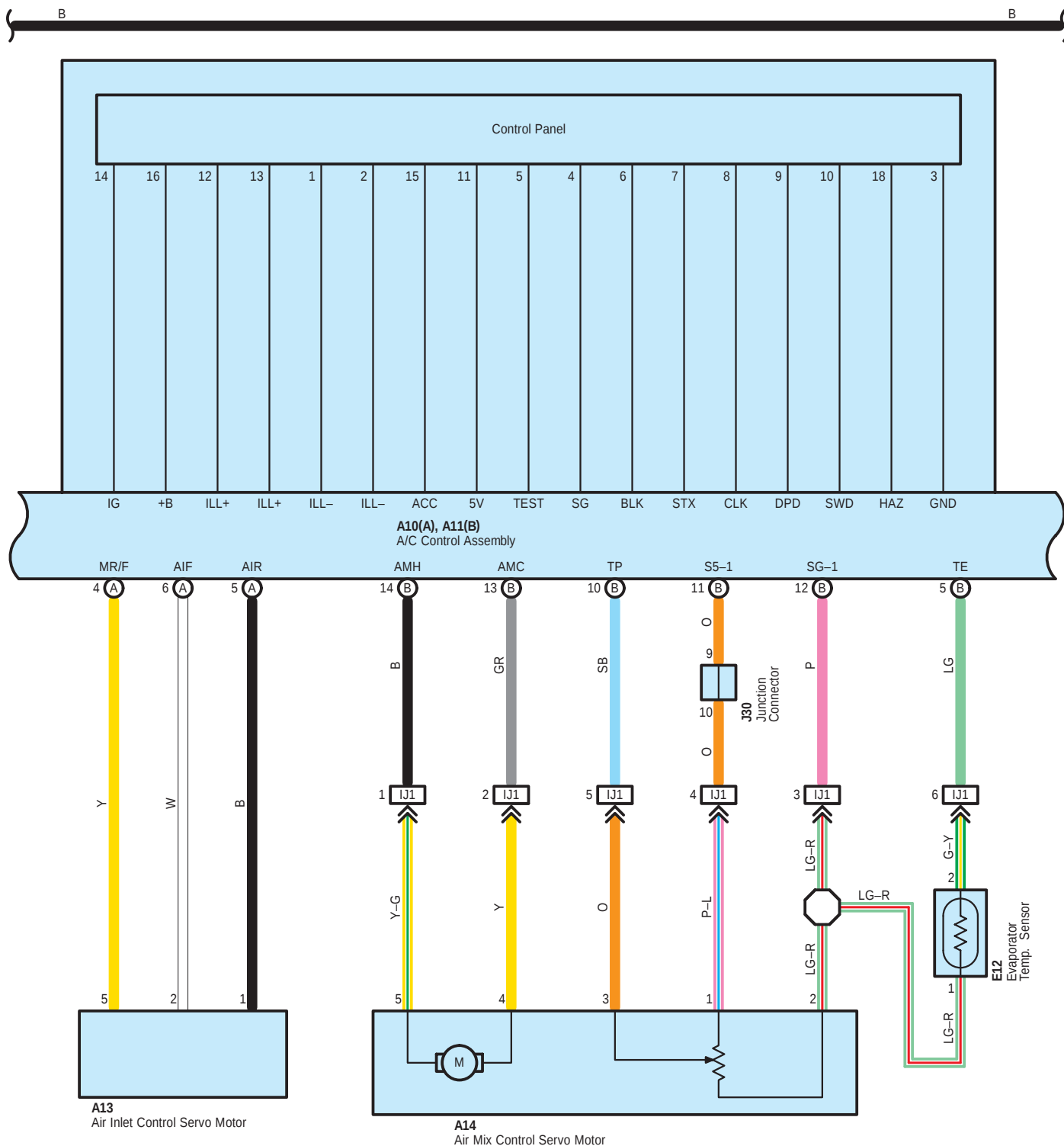
 : Connector Joining Wire Harness and Wire Harness

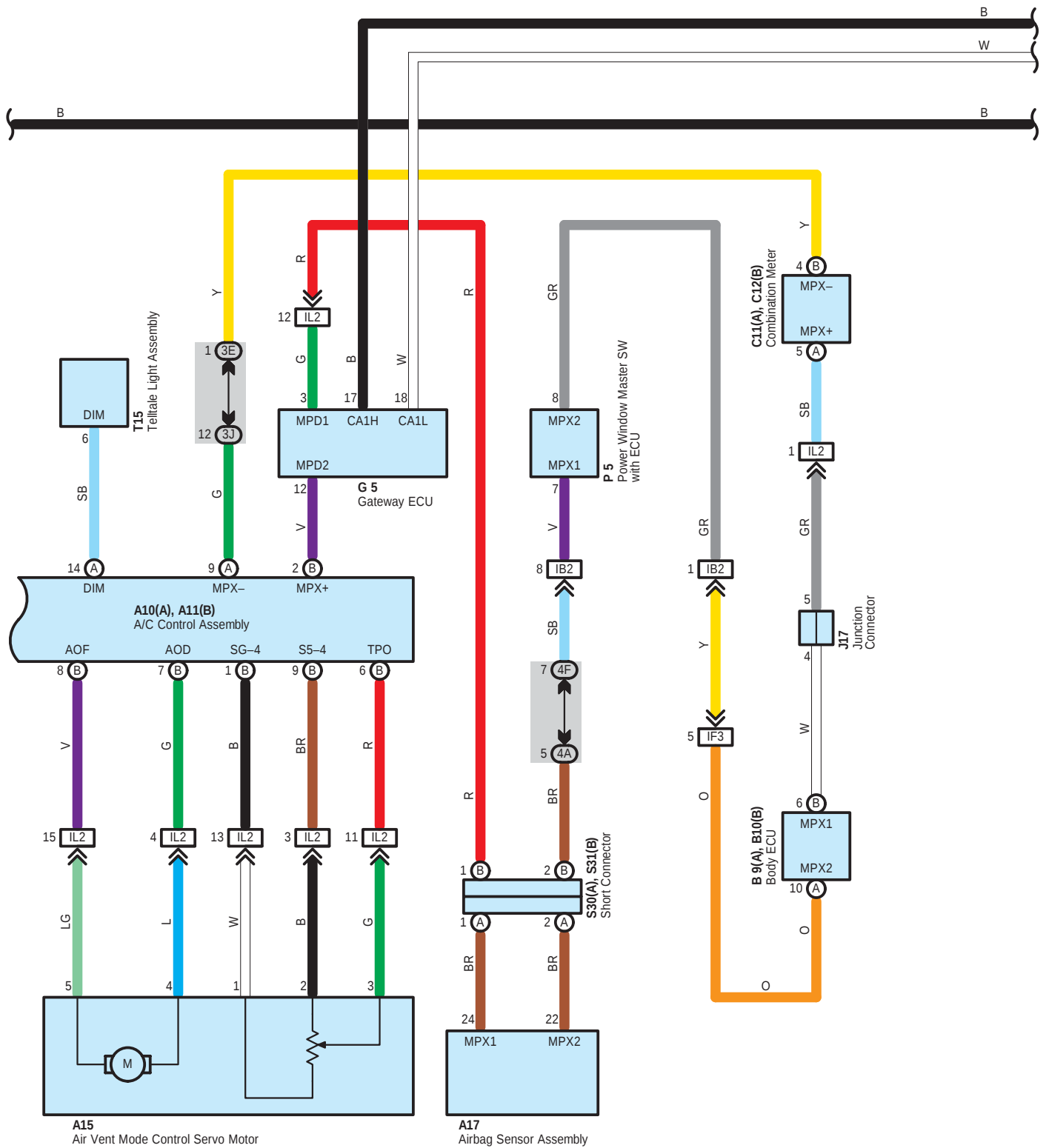
Code	See Page	Joining Wire Harness and Wire Harness (Connector Location)
EB1	52	Engine Wire and Engine Room Main Wire (Front Side of Engine Room R/B No.4)
EB2		
IB2	54	Front Door LH Wire and Cowl Wire (Left Kick Panel)
IC4	54	Engine Room Main Wire and Cowl Wire (Left Cowl Side Panel)
IF3	54	Instrument Panel Wire and Cowl Wire (Right Side of Instrument Panel J/B)
IH1	55	Cowl Wire and A/C Sub No.2 Wire (Upper Portion of Right Instrument Panel Brace)
IJ1	55	Instrument Panel Wire and A/C Sub No.3 Wire (Upper Portion of Right Instrument Panel Brace)
IK4	55	Engine Room Main Wire and Cowl Wire (Right Cowl Side Panel)
IL1	55	Instrument Panel Wire and Cowl Wire (Right Cowl Side Panel)
IL2		

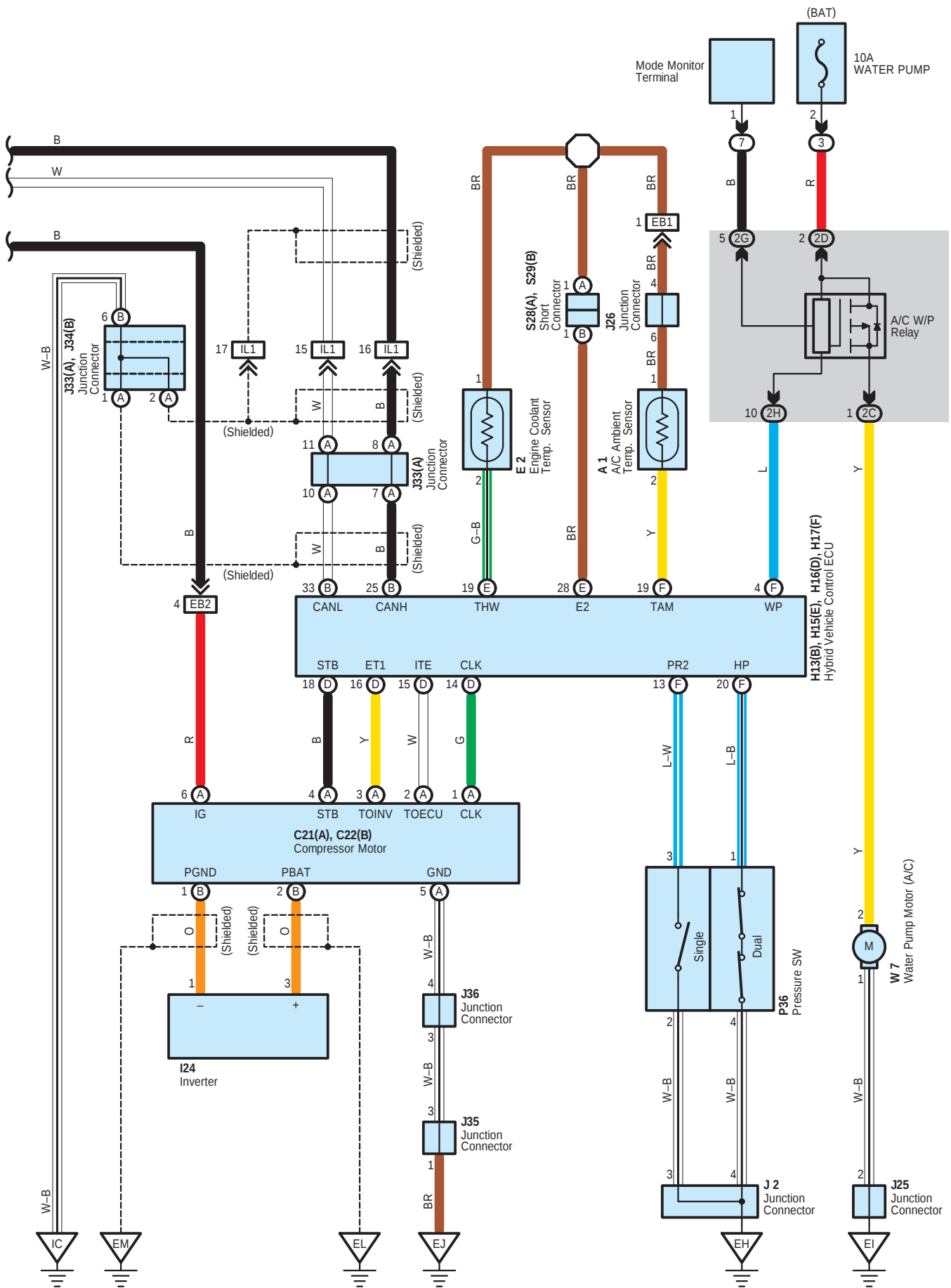
 : Ground Points

Code	See Page	Ground Points Location
EH	52	Under the Left Headlight
EI	52	Right Front Fender Apron
EJ	52	Right Side of the Cylinder Head
EL	52	Radiator Side Support LH
EM		
IA	54	Left Cowl Side Panel
IB	54	Right Instrument Panel Brace
IC	54	Right Cowl Side Panel









Manual Air Conditioning

System Outline

1. Heater Blower Motor Operation

Current is applied at all times through the HEATER fuse to HEATER relay (Point side).

When the ignition SW is turned on, current flows through the HEATER fuse to HEATER relay (Coil side) to TERMINAL 8 of the blower control SW.

* Low speed operation

When the blower SW is moved to LO position, the current to TERMINAL 8 of the blower control SW flows to TERMINAL 1 to GROUND, causing the HEATER relay is turned on. This causes the current to flow from the HEATER fuse to HEATER relay (Point side) to TERMINAL 2 of the blower motor to TERMINAL 1 to TERMINAL 4 of the blower resistor to TERMINAL 1 to GROUND, causing the blower motor to rotate at low speed.

* Medium speed operation (Operation at M1, M2)

When the blower SW is moved to M1 position, the current to TERMINAL 8 of the blower control SW flows to TERMINAL 1 to GROUND, turns the HEATER relay on. This causes the current to flow from the HEATER fuse to HEATER relay (Point side) to TERMINAL 2 of the blower motor to TERMINAL 1 to TERMINAL 4 of the blower resistor to TERMINAL 3 to TERMINAL 6 of the blower control SW to TERMINAL 1 to GROUND. At this time, the blower resistance of the blower resistor is less than at low speed, so the blower motor rotates at medium low speed.

When the blower control SW is moved to M2 position, current flowing through the motor flows from TERMINAL 4 of the blower resistor to TERMINAL 2 to TERMINAL 5 of the blower control SW to TERMINAL 1 to GROUND. At this time, resistance of the blower resistor is less than at M1 position, so the blower motor rotates at medium high speed.

* High speed operation

When the blower SW is moved to HI position, the current flows to TERMINAL 8 of the blower control SW to TERMINAL 1 to GROUND and turns the HEATER relay on.

This causes the current to flow from the HEATER fuse to HEATER relay (Point side) to TERMINAL 2 of the blower motor to TERMINAL 1 to TERMINAL 4 of the blower control SW to TERMINAL 1 to GROUND, causing the blower motor to rotate at high speed.

2. Air Conditioning Operation

If the A/C control SW is turned on when the blower SW is set to on, A/C operation starts. However, when the mode SW is at DEF or FOOT/DEF position, forcibly the air intake is set to FRESH mode and the A/C operates.

○ : Parts Location

Code	See Page	Code	See Page	Code	See Page
A1	42	C21	A 42	J30	45
A10	A 44	C22	B 42	J31	A 45
A11	B 44	E2	42	J32	B 45
A13	44	E12	44	J33	A 45
A14	44	G5	44	J34	B 45
A15	44	H13	B 44	J35	45
A17	44	H15	E 44	J36	45
A28	44	H16	D 44	P5	46
B5	44	H17	F 44	P36	43
B6	44	I24	43	S28	A 45
B8	44	J2	43	S29	B 45
B9	A 44	J5	45	S30	A 45
B10	B 44	J17	45	S31	B 45
C11	A 44	J25	43	T15	45
C12	B 44	J26	45	W7	43

○ : Relay Blocks

Code	See Page	Relay Blocks (Relay Block Location)
3	26	R/B No.3 (Engine Compartment Left)
7	24	Fusible Link Block (Engine Compartment Left)



: Junction Block and Wire Harness Connector

Code	See Page	Junction Block and Wire Harness (Connector Location)
1G	31	Cowl Wire and Instrument Panel J/B (Lower Finish Panel)
1K	30	Instrument Panel Wire and Instrument Panel J/B (Lower Finish Panel)
2C	28	Engine Room Main Wire and Engine Room J/B (Engine Compartment Left)
2D		
2G		
2H		
3A	34	Instrument Panel Wire and J/B No.3 (Behind the Instrument Panel Center)
3E		
3F		
3I	35	
3J		
4A	39	Cowl Wire and J/B No.4 (Right Side of Glove Box)
4F		



: Connector Joining Wire Harness and Wire Harness

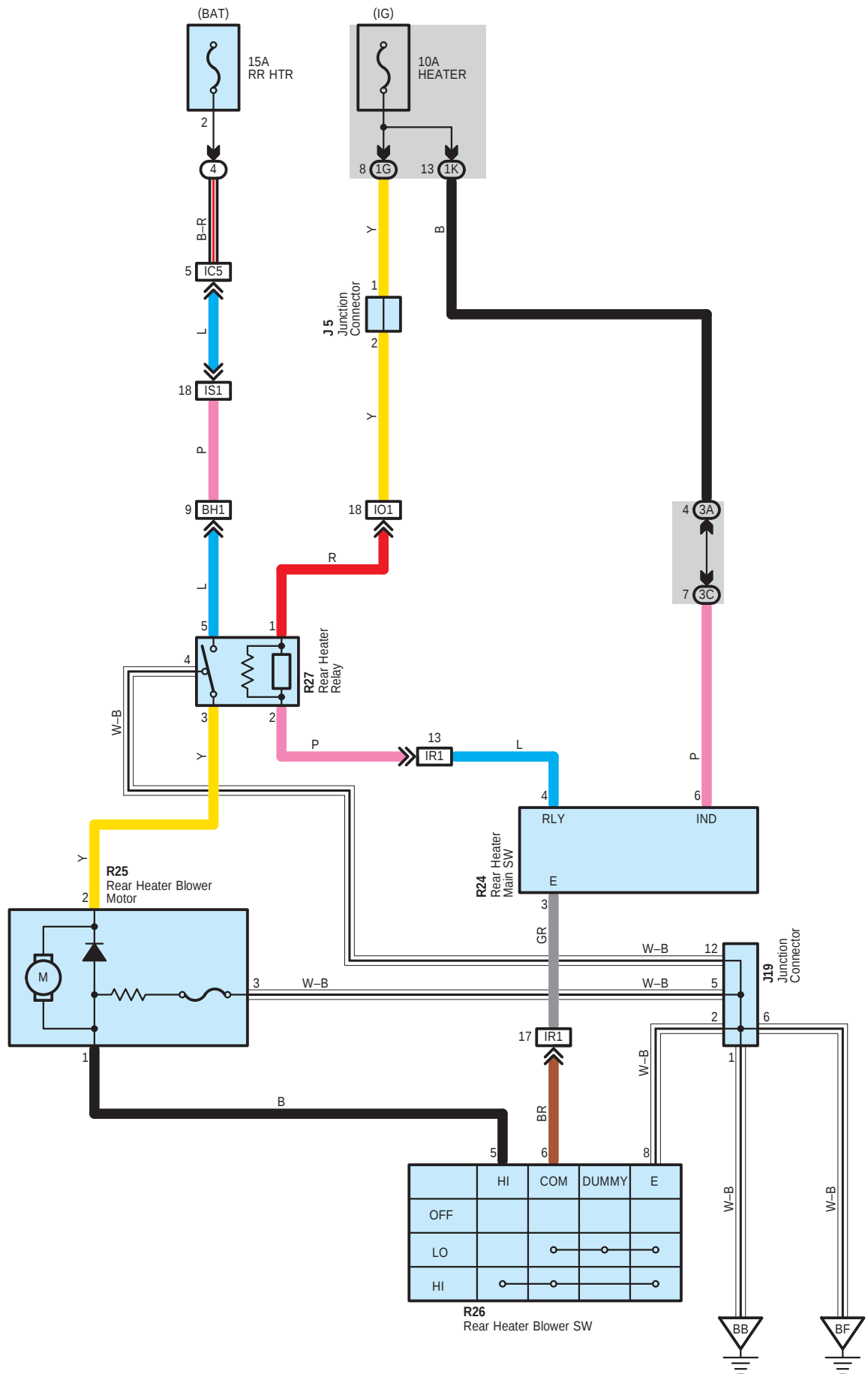
Code	See Page	Joining Wire Harness and Wire Harness (Connector Location)
EB1	52	Engine Wire and Engine Room Main Wire (Front Side of Engine Room R/B No.4)
EB2		
IB2	54	Front Door LH Wire and Cowl Wire (Left Kick Panel)
IC4	54	Engine Room Main Wire and Cowl Wire (Left Cowl Side Panel)
IF3	54	Instrument Panel Wire and Cowl Wire (Right Side of Instrument Panel J/B)
IG1	54	Instrument Panel Wire and Cowl Wire (Upper Portion of Right Instrument Panel Brace)
II1	55	Instrument Panel Wire and A/C Sub No.1 Wire (Upper Portion of Right Instrument Panel Brace)
IJ1	55	Instrument Panel Wire and A/C Sub No.3 Wire (Upper Portion of Right Instrument Panel Brace)
IK4	55	Engine Room Main Wire and Cowl Wire (Right Cowl Side Panel)
IL1	55	Instrument Panel Wire and Cowl Wire (Right Cowl Side Panel)
IL2		



: Ground Points

Code	See Page	Ground Points Location
EH	52	Under the Left Headlight
EI	52	Right Front Fender Apron
EJ	52	Right Side of the Cylinder Head
EL	52	Radiator Side Support LH
EM		
IA	54	Left Cowl Side Panel
IB	54	Right Instrument Panel Brace
IC	54	Right Cowl Side Panel

Rear Heater



 : Parts Location

Code	See Page	Code	See Page	Code	See Page
J5	45	R24	45	R26	47
J19	46	R25	47	R27	47

 : Relay Blocks

Code	See Page	Relay Blocks (Relay Block Location)
4	27	R/B No.4 (Engine Compartment Left)

 : Junction Block and Wire Harness Connector

Code	See Page	Junction Block and Wire Harness (Connector Location)
1G	31	Cowl Wire and Instrument Panel J/B (Lower Finish Panel)
1K	30	Instrument Panel Wire and Instrument Panel J/B (Lower Finish Panel)
3A	34	Instrument Panel Wire and J/B No.3 (Behind the Instrument Panel Center)
3C		

 : Connector Joining Wire Harness and Wire Harness

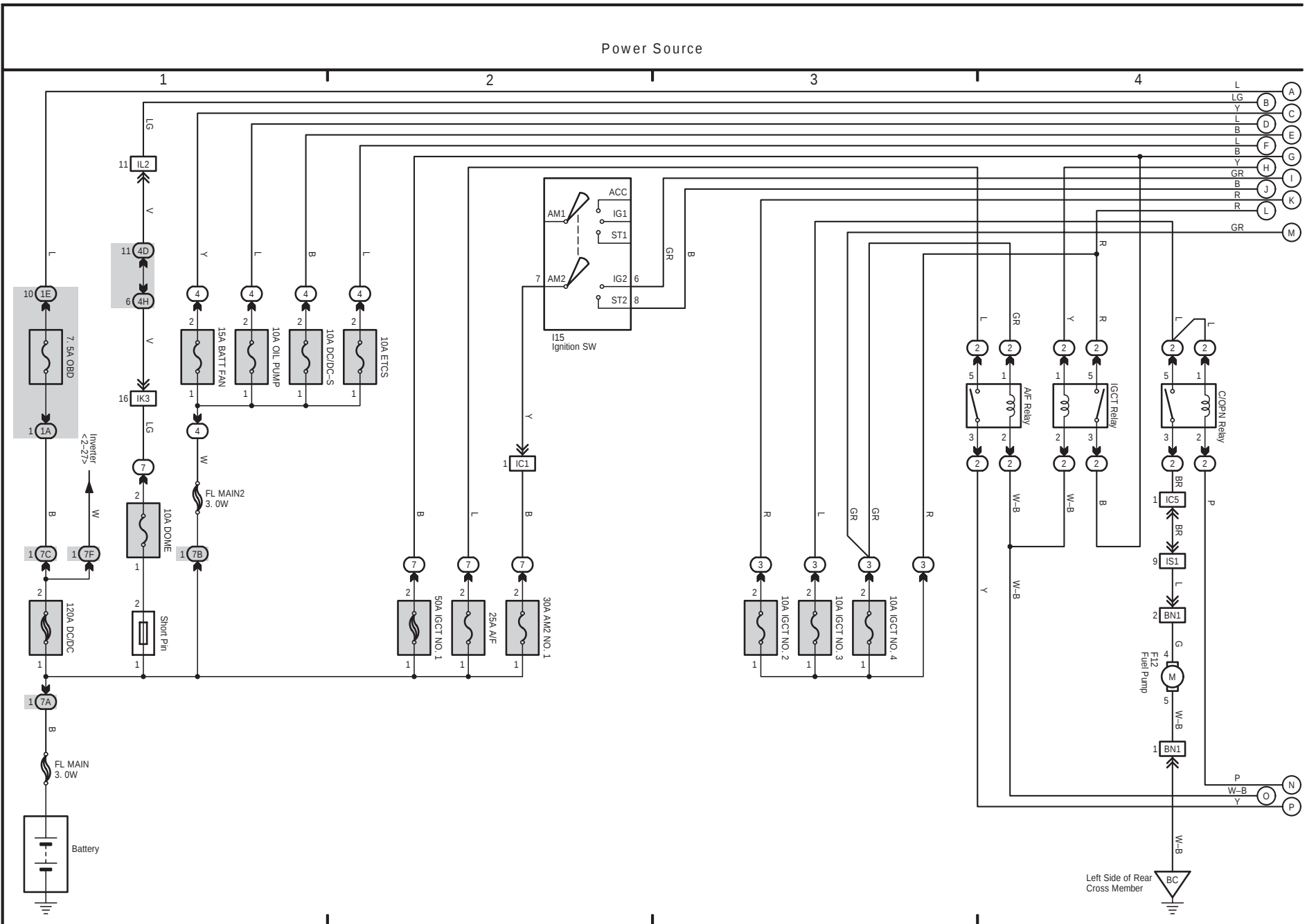
Code	See Page	Joining Wire Harness and Wire Harness (Connector Location)
IC5	54	Engine Room Main Wire and Cowl Wire (Left Cowl Side Panel)
IO1	55	Cowl Wire and Floor Wire (Right Kick Panel)
IR1	55	Instrument Panel Wire and Floor Wire (Under the Shift Lever)
IS1	55	Floor No.2 Wire and Cowl Wire (Left Kick Panel)
BH1	56	Floor No.2 Wire and Floor Wire (Near the Rear Side Marker Light RH)

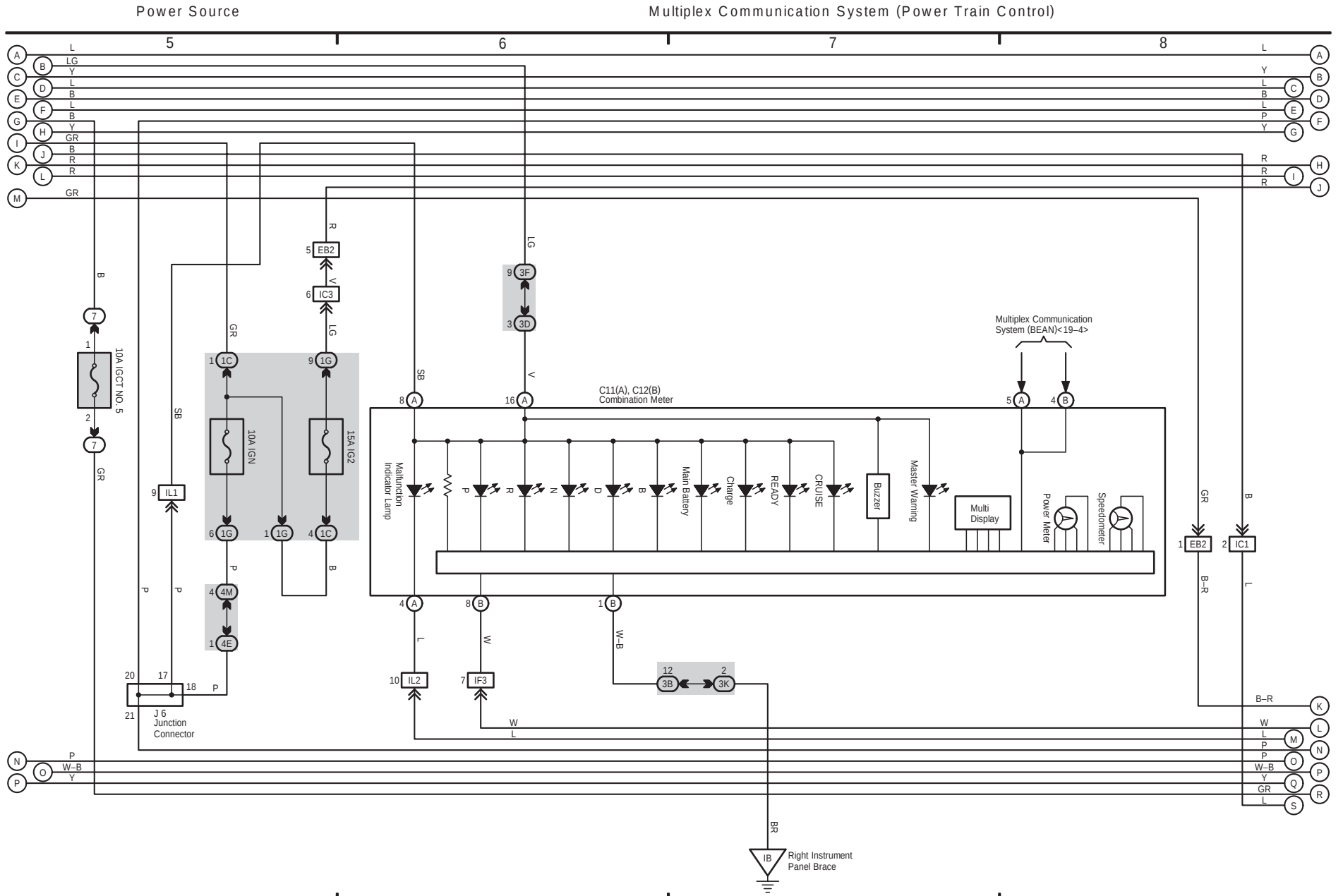
 : Ground Points

Code	See Page	Ground Points Location
BB	56	Right Center Pillar
BF	56	Near the Rear Side Marker Light RH

HIGHLANDER Hybrid Vehicle (EWD605U)

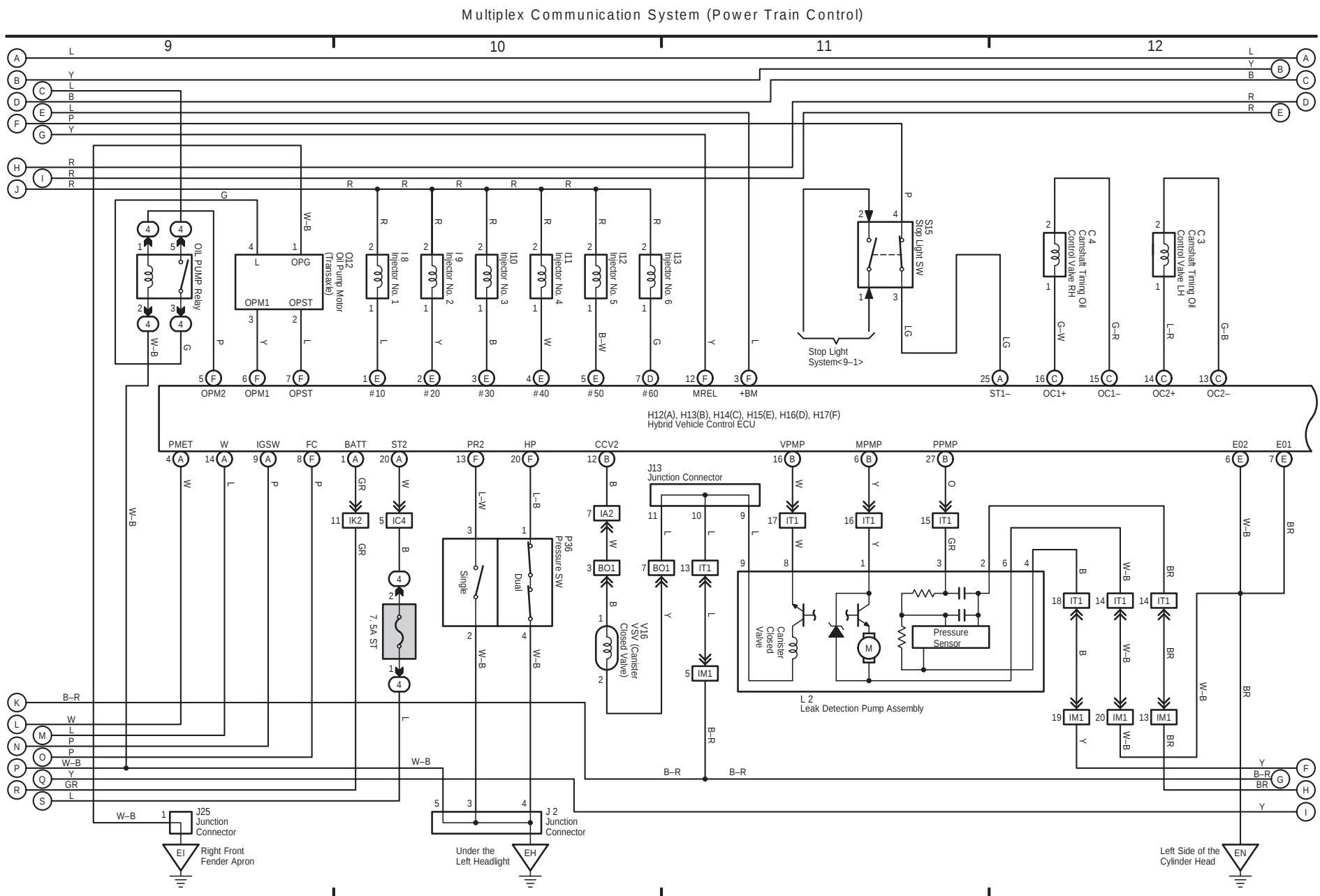


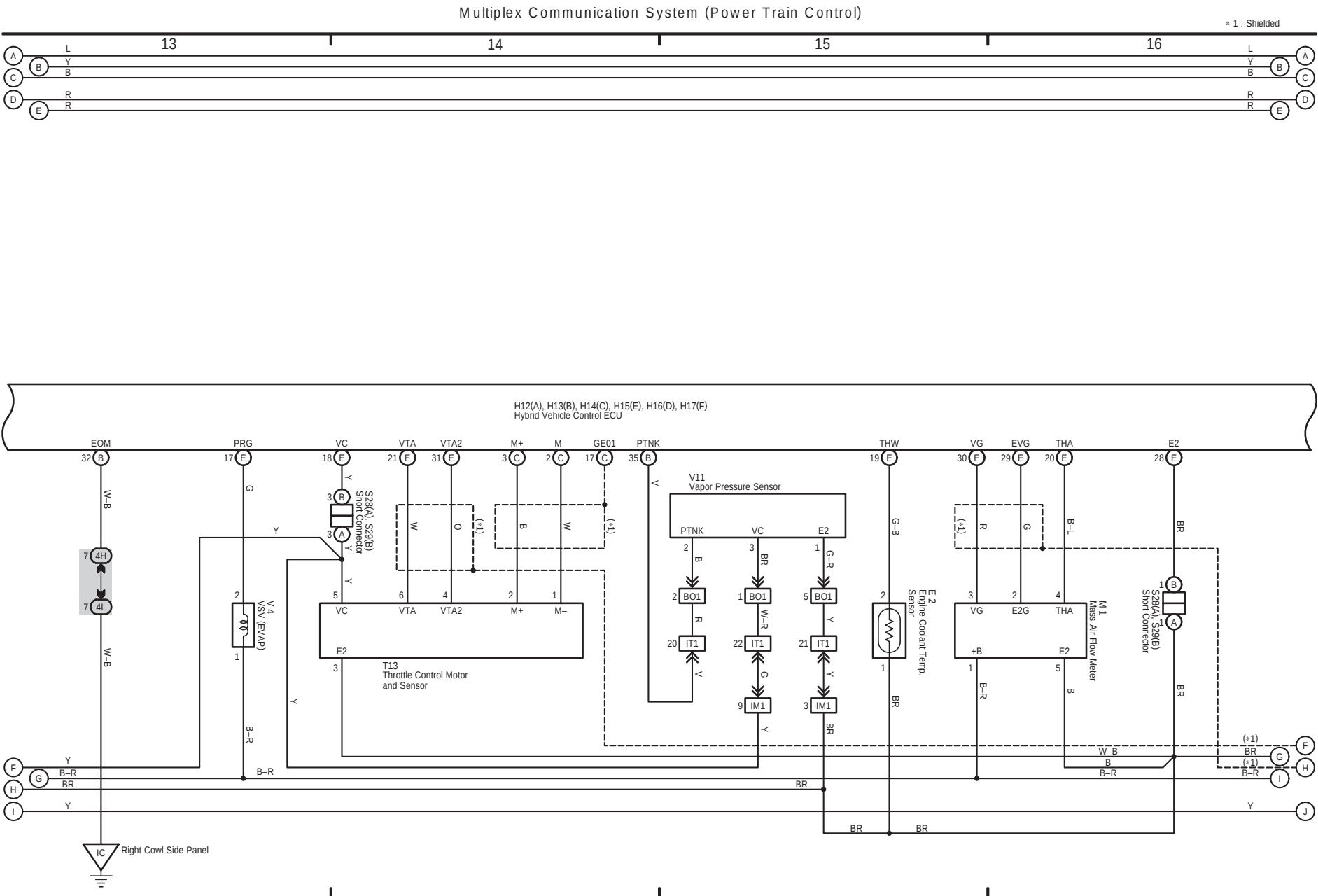




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2 HIGHLANDER Hybrid Vehicle (Cont' d)



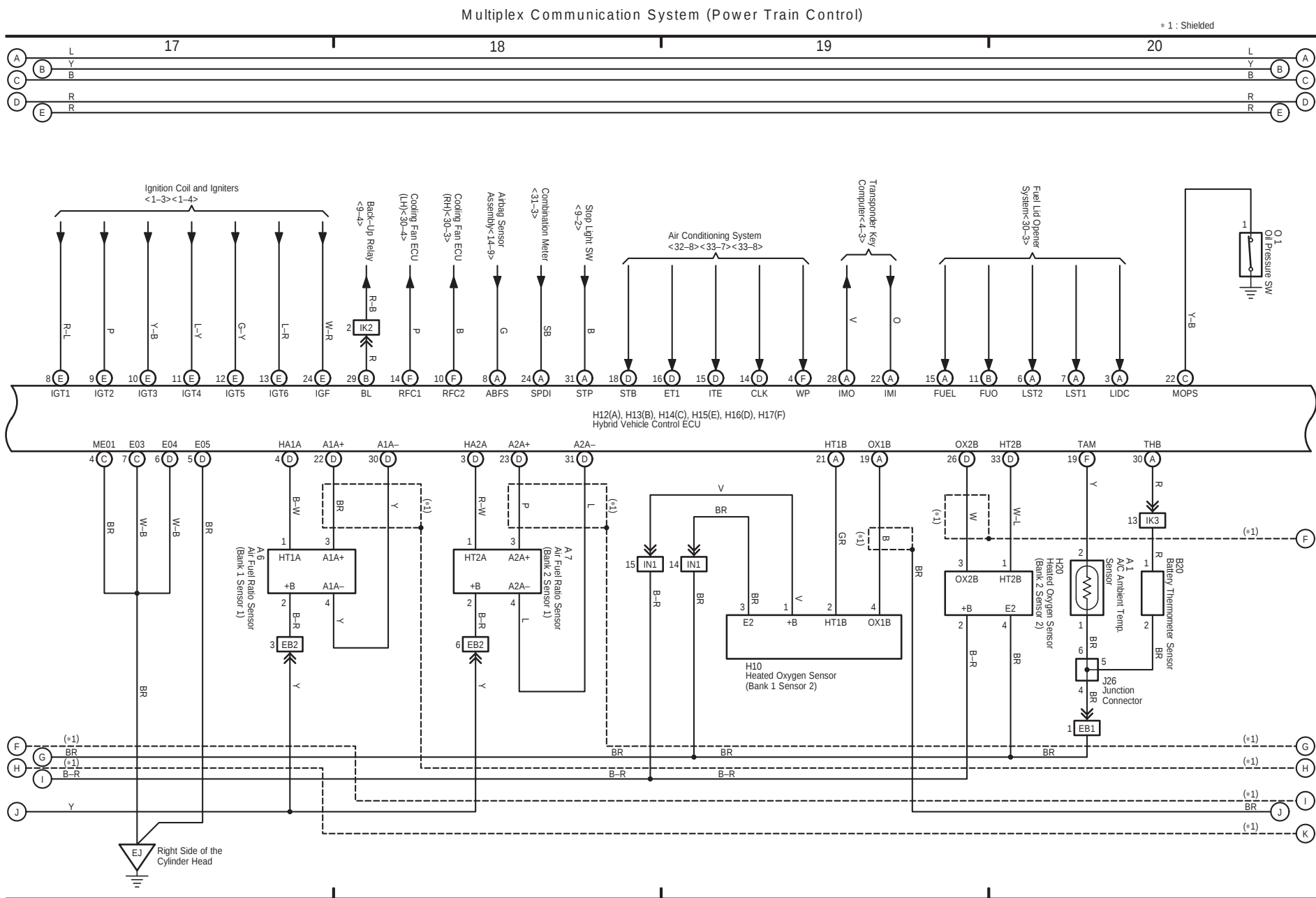


HIGHLANDER Hybrid Vehicle (EWD605U)

HIGHLANDER Hybrid Vehicle (EWD605U)

2 HIGHLANDER Hybrid Vehicle (Cont' d)

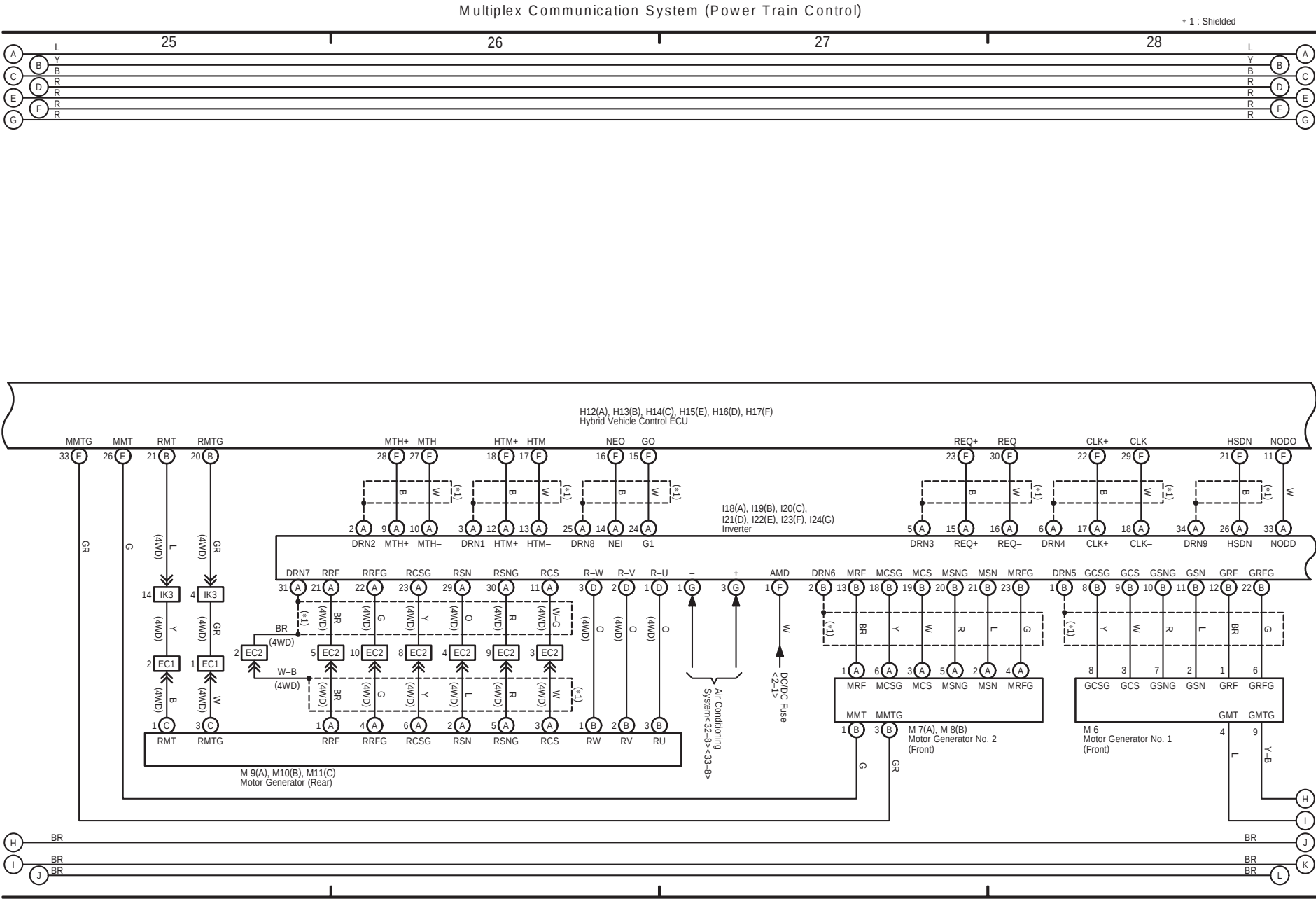
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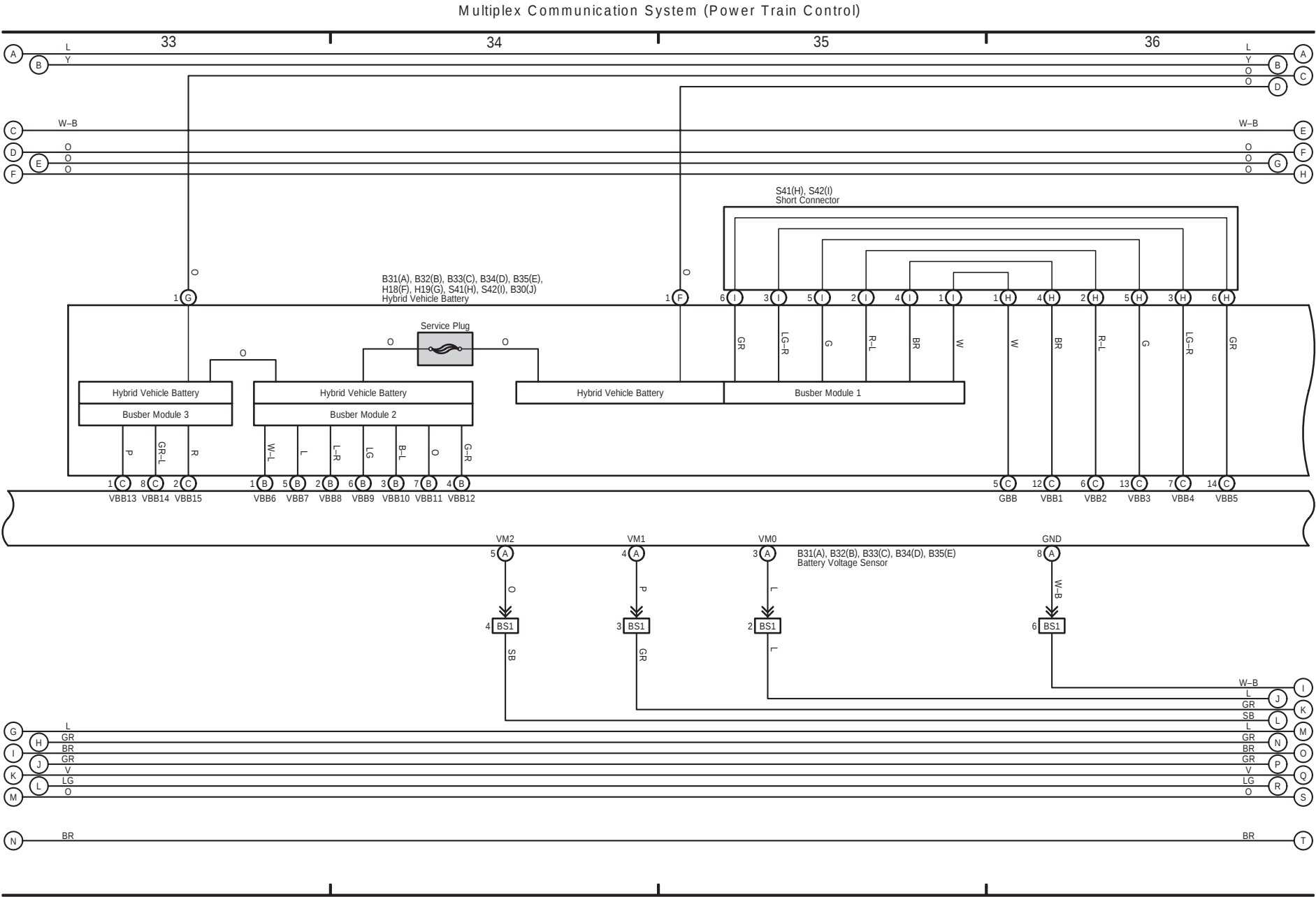


2 HIGHLANDER Hybrid Vehicle (Cont' d)

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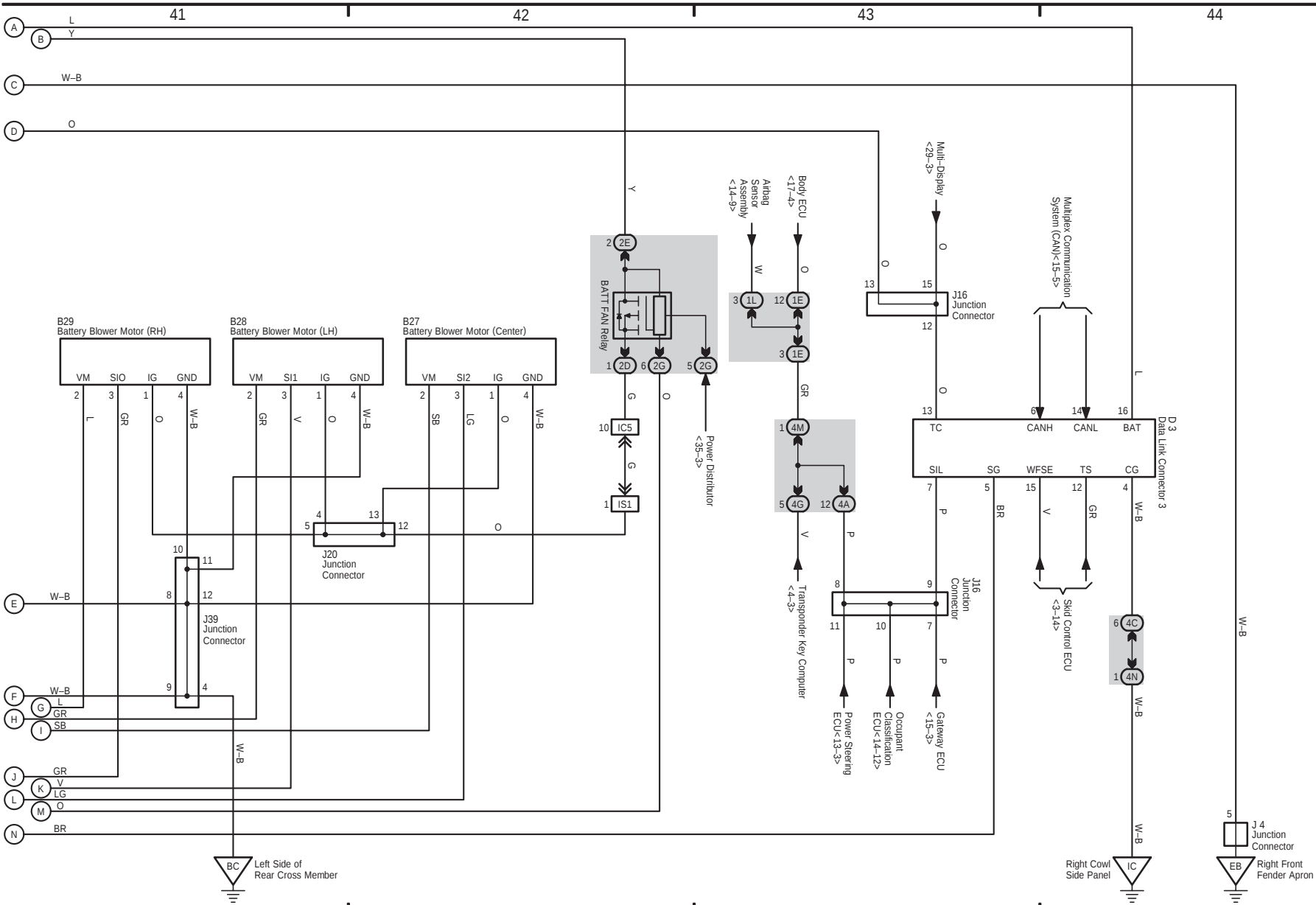








Multiplex Communication System (Power Train Control)



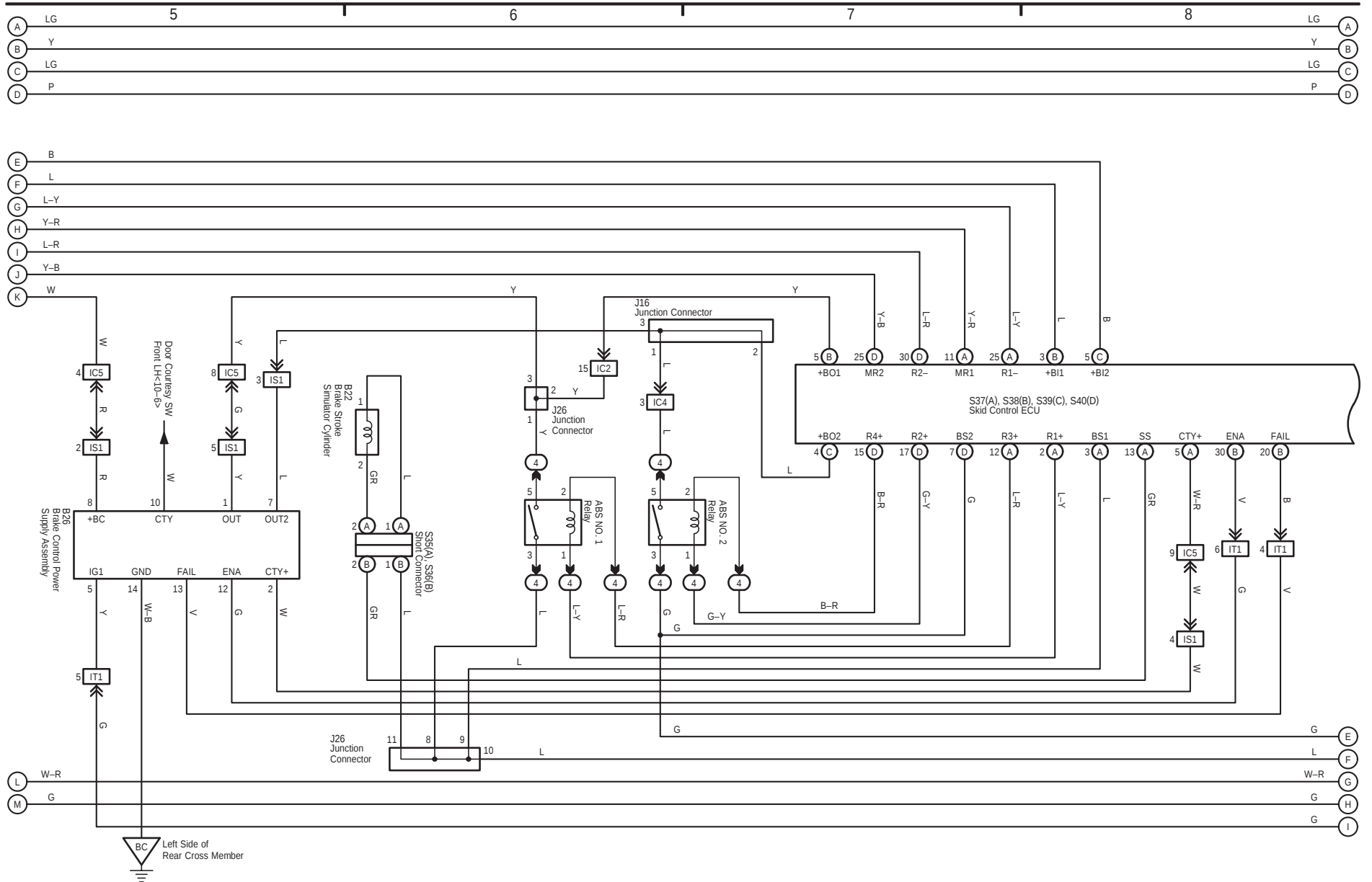
2 HIGHLANDER Hybrid Vehicle (Cont' d)

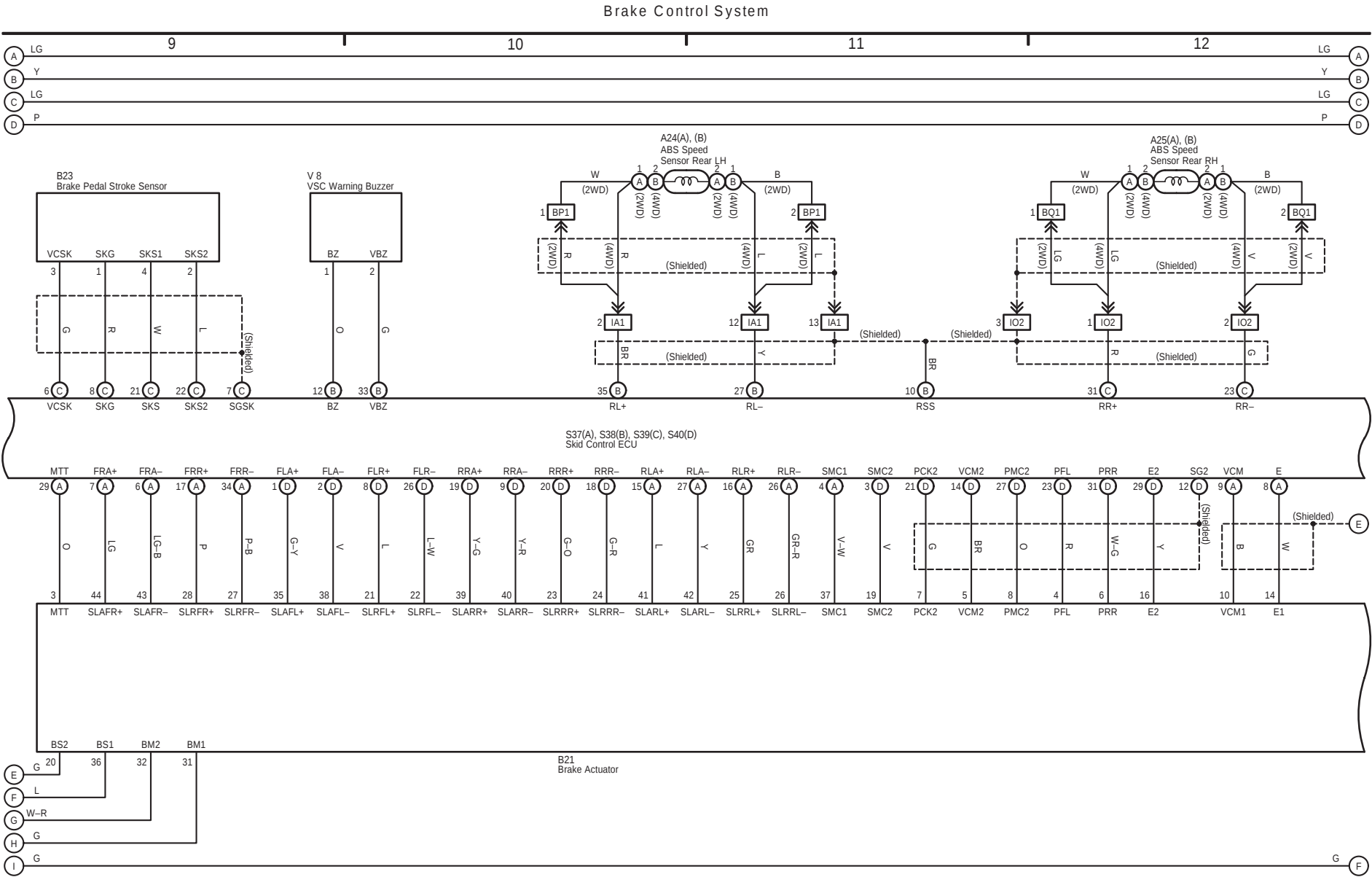
384

384

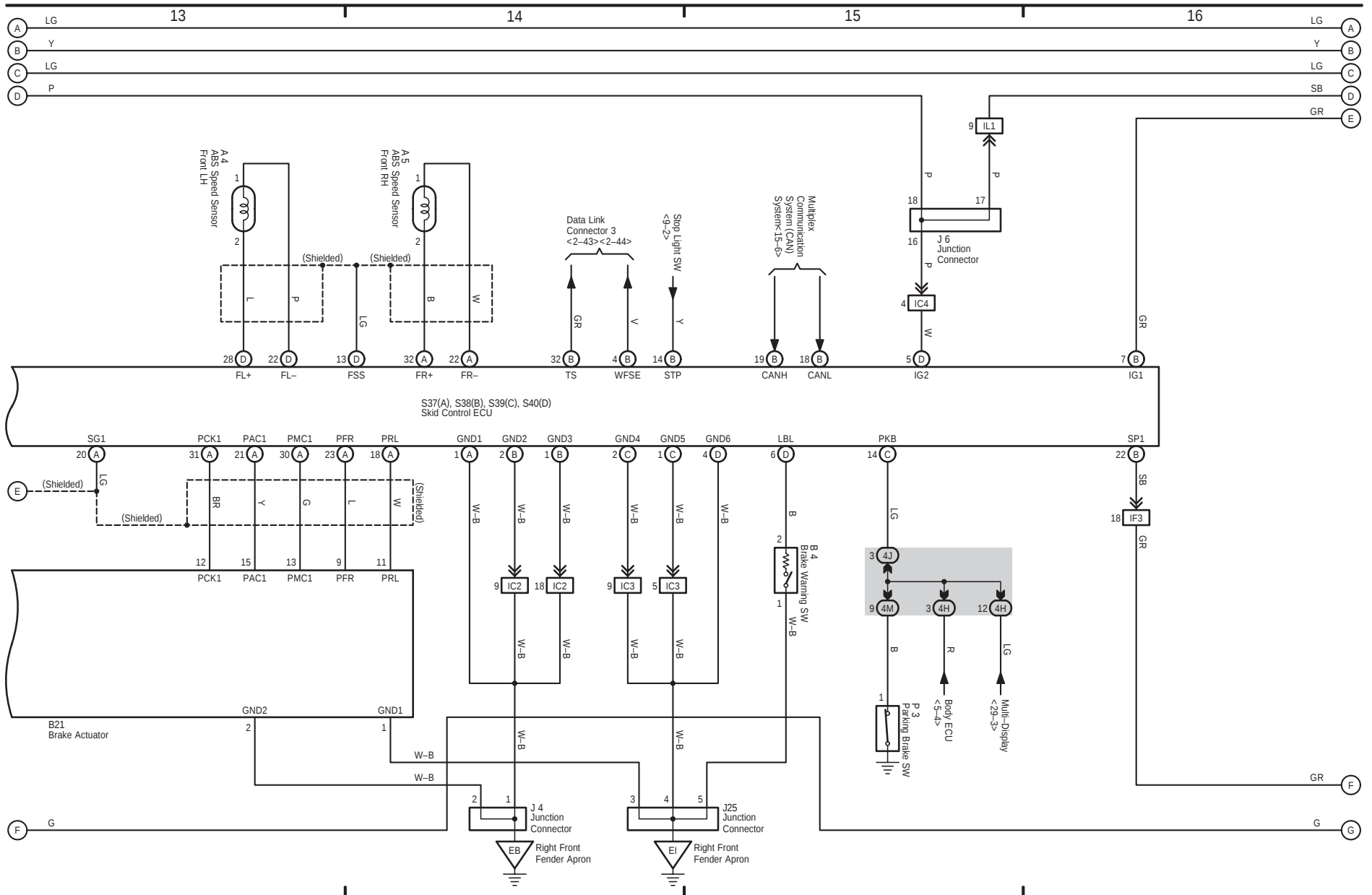


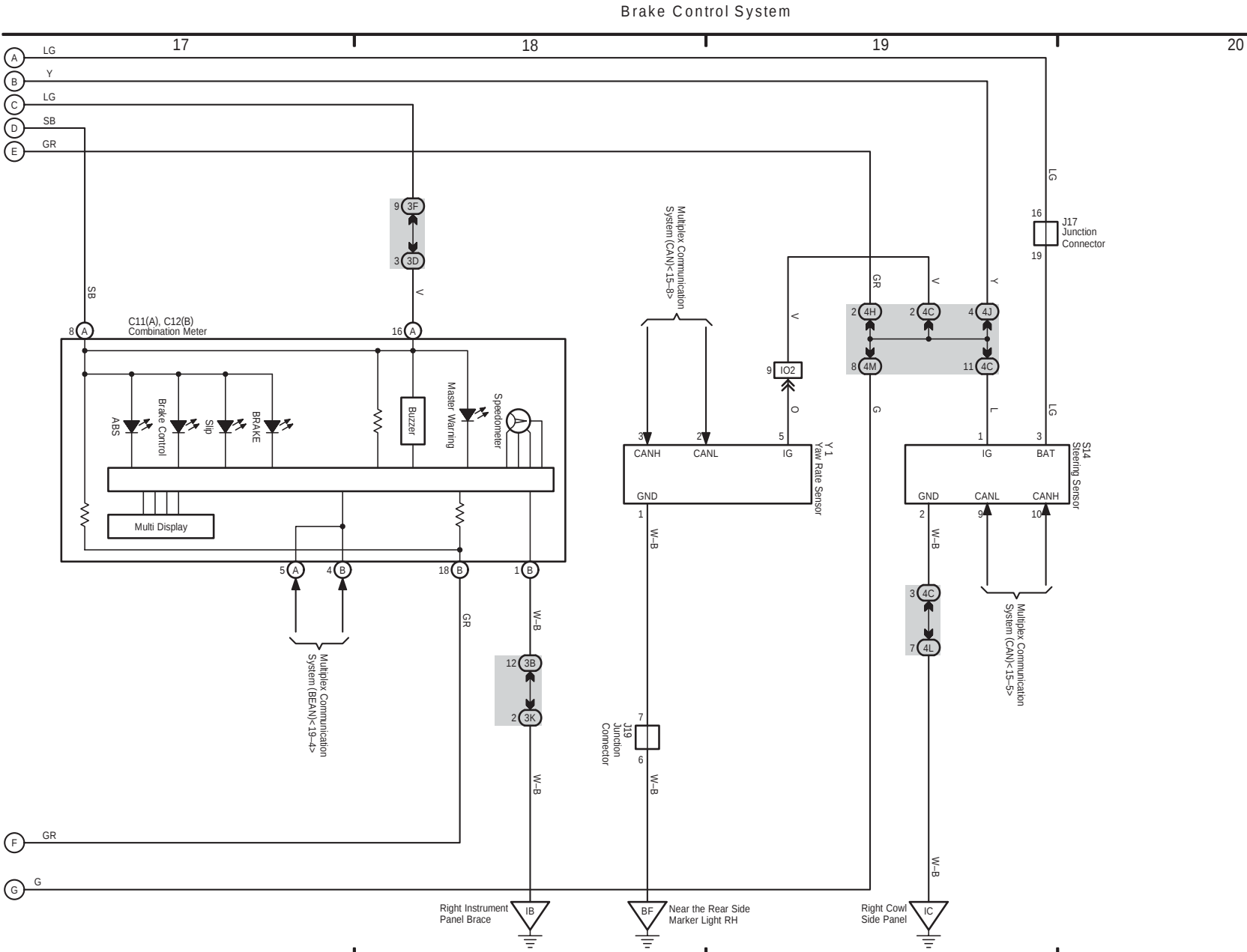
Brake Control System





Brake Control System



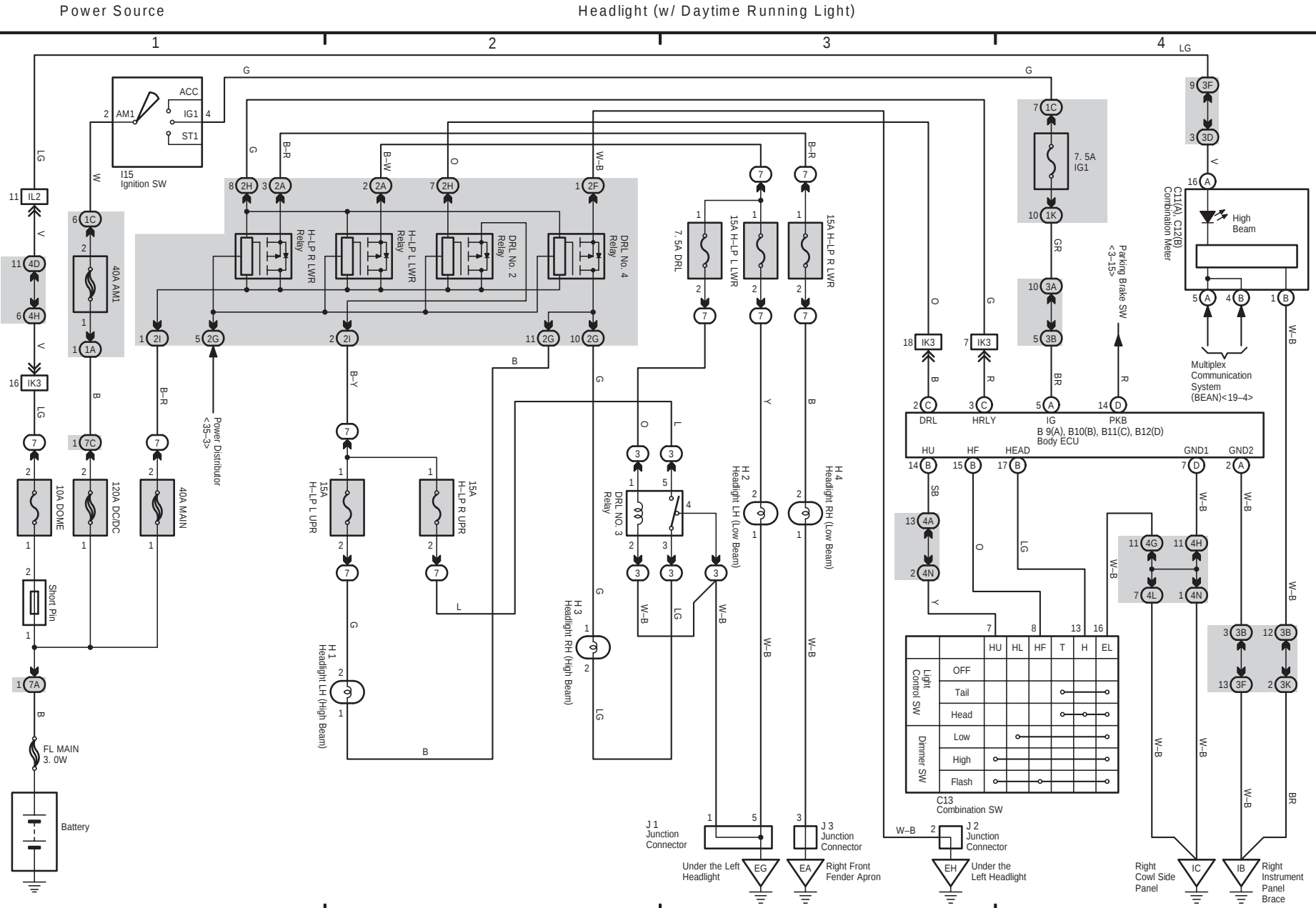


3 HIGHLANDER Hybrid Vehicle (Cont' d)

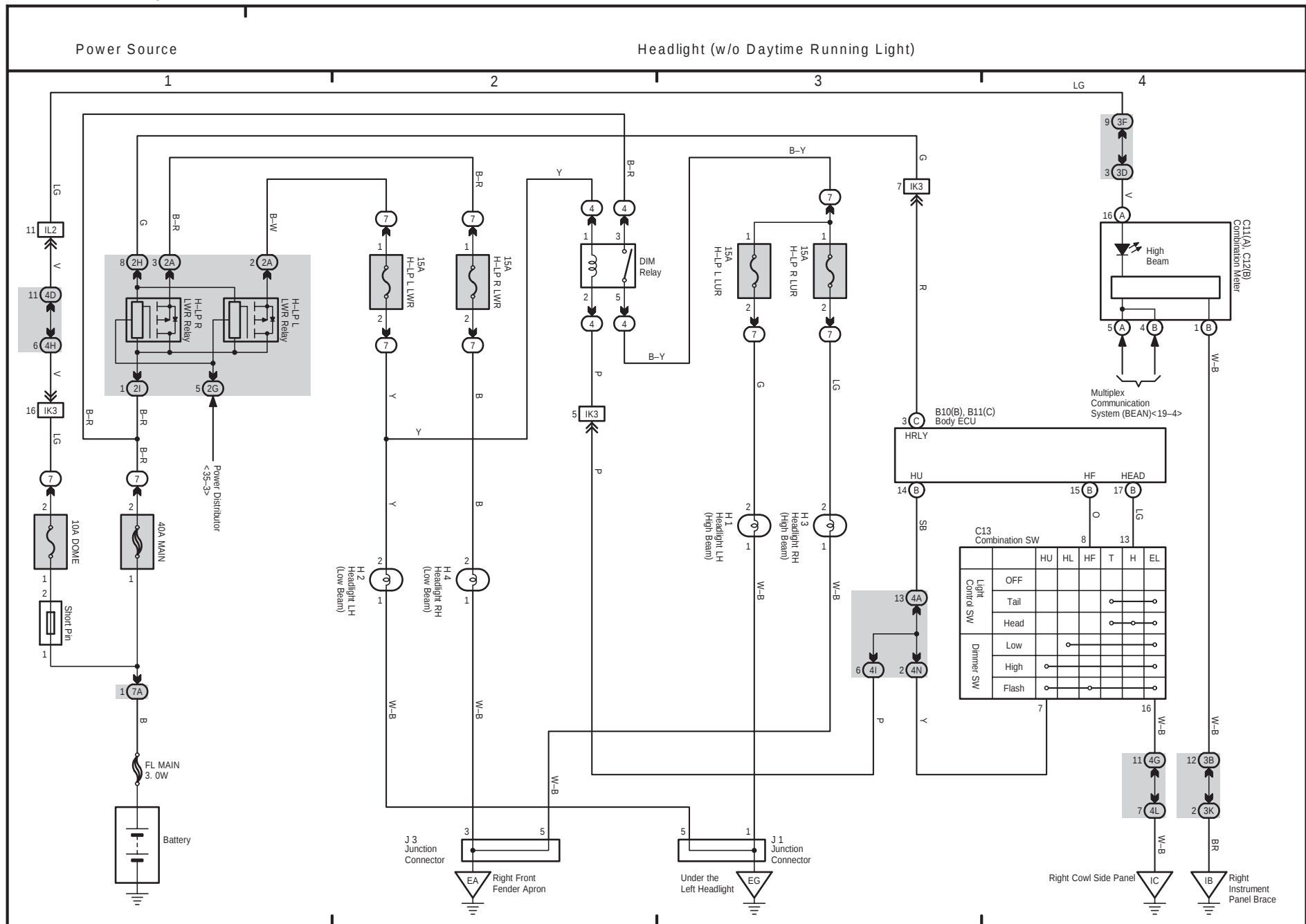
HIGHLANDER Hybrid Vehicle (EWD605U)



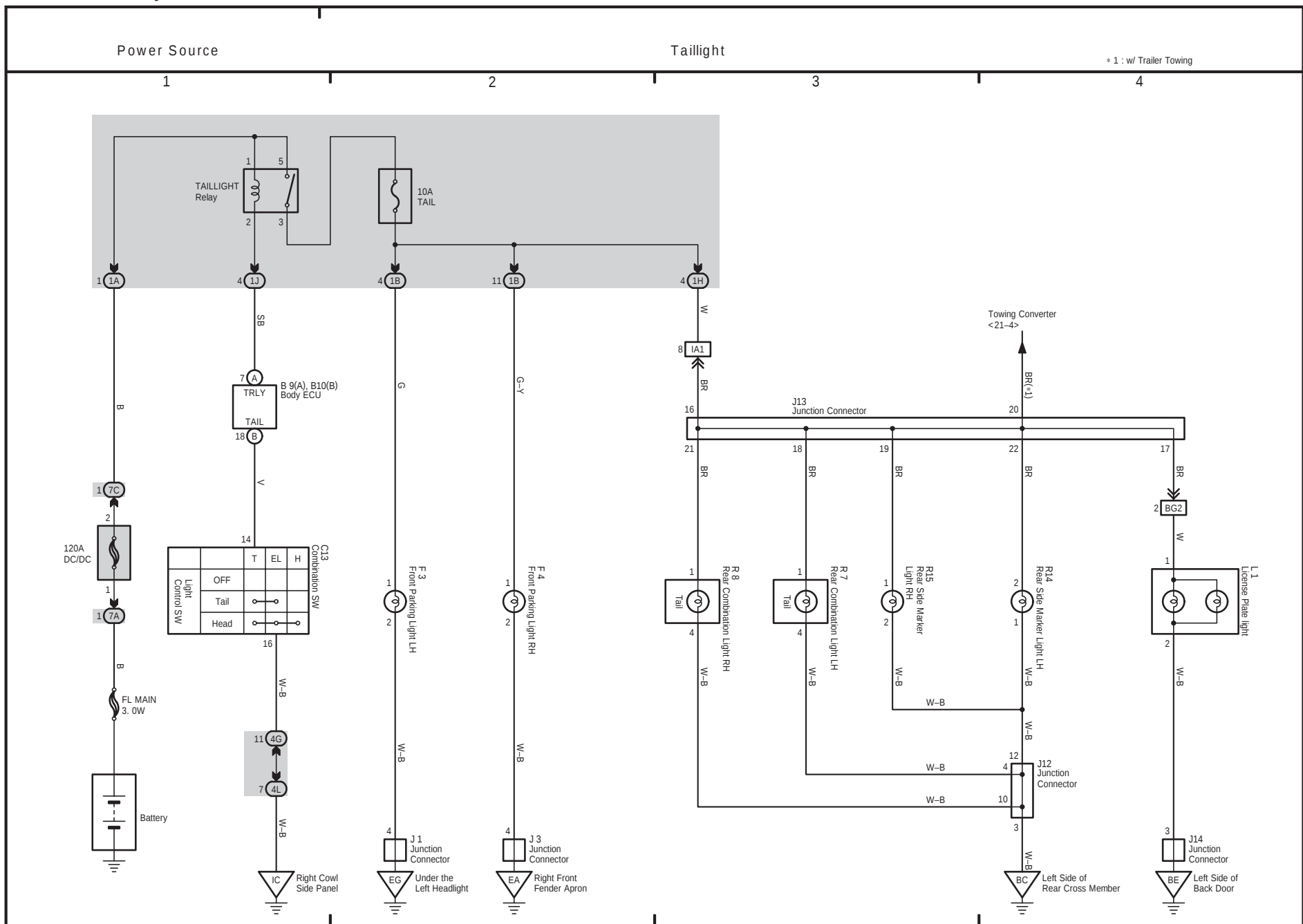
5 HIGHLANDER Hybrid Vehicle



HIGHLANDER Hybrid Vehicle (EWD605U)



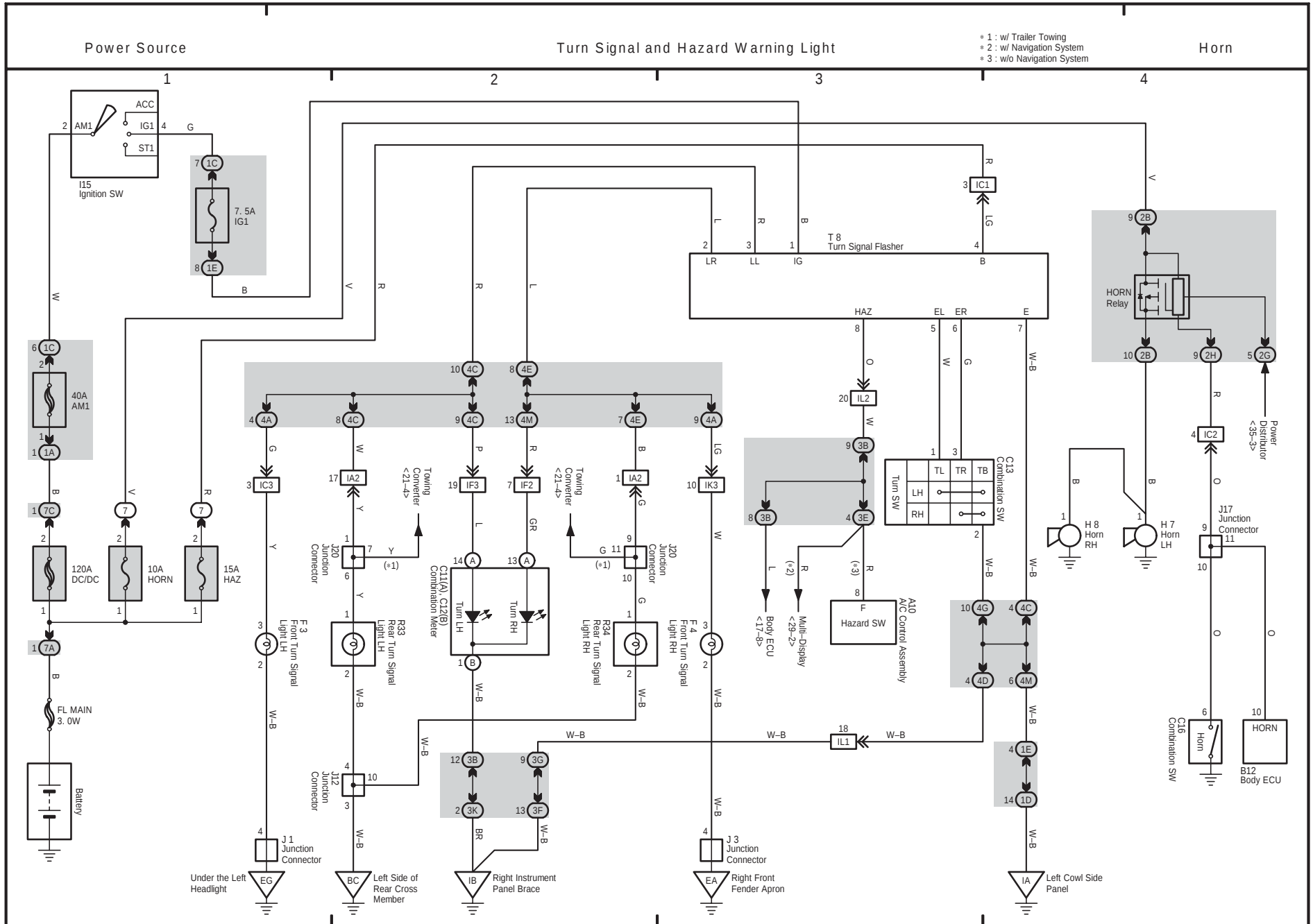
HIGHLANDER Hybrid Vehicle (EWD605U)



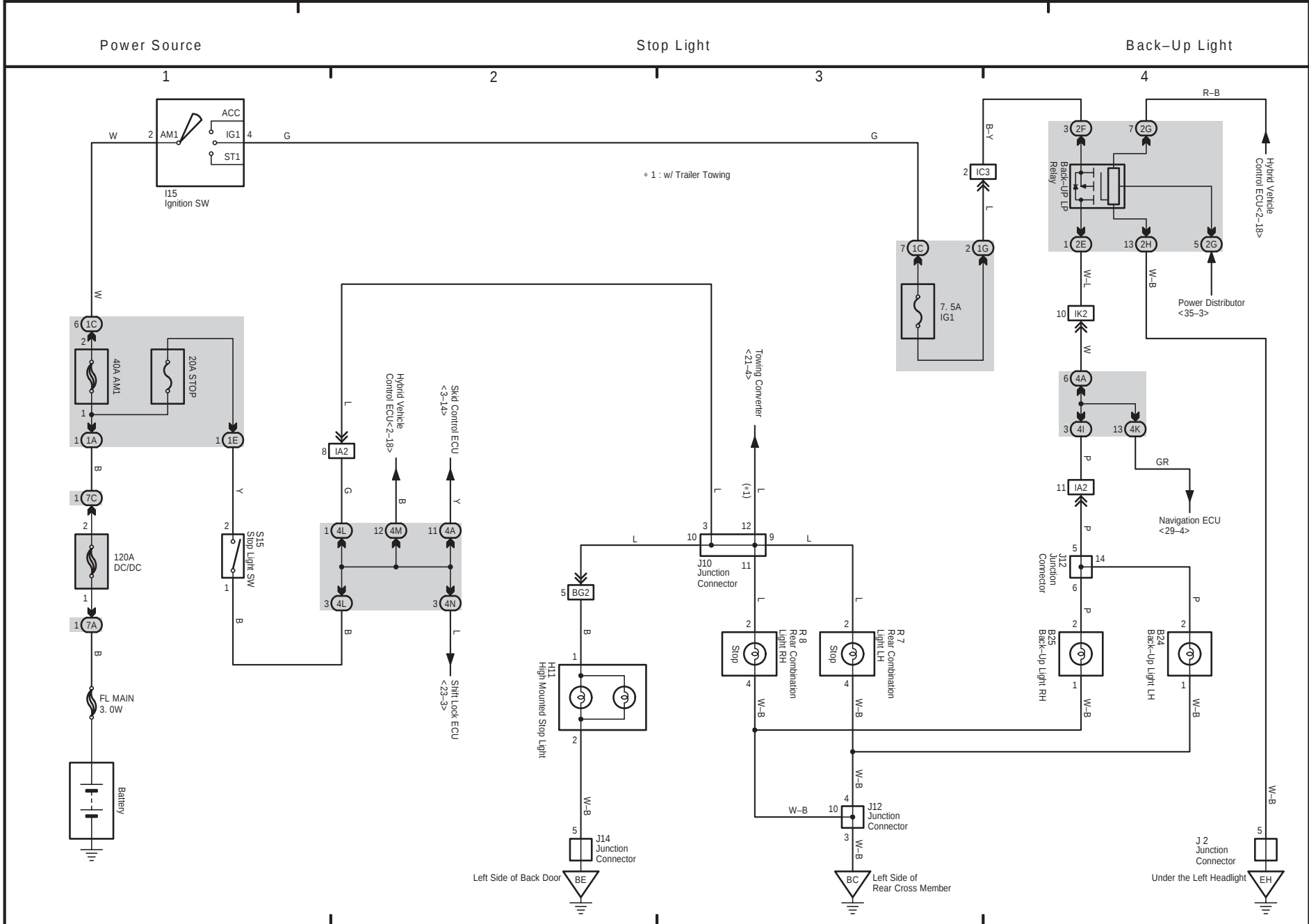
8 HIGHLANDER Hybrid Vehicle

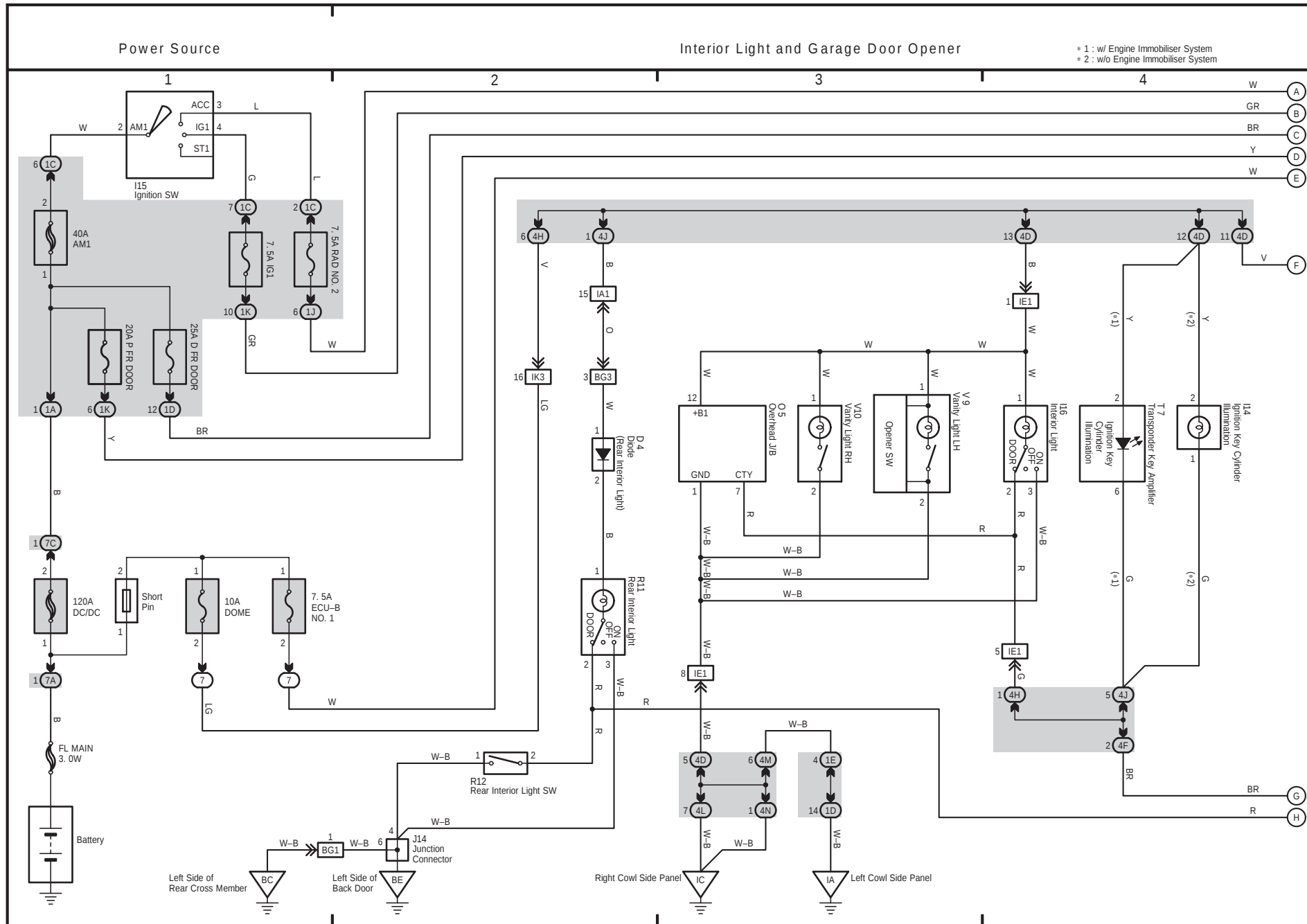
HIGHLANDER Hybrid Vehicle (EWD605U)

393



9 HIGHLANDER Hybrid Vehicle

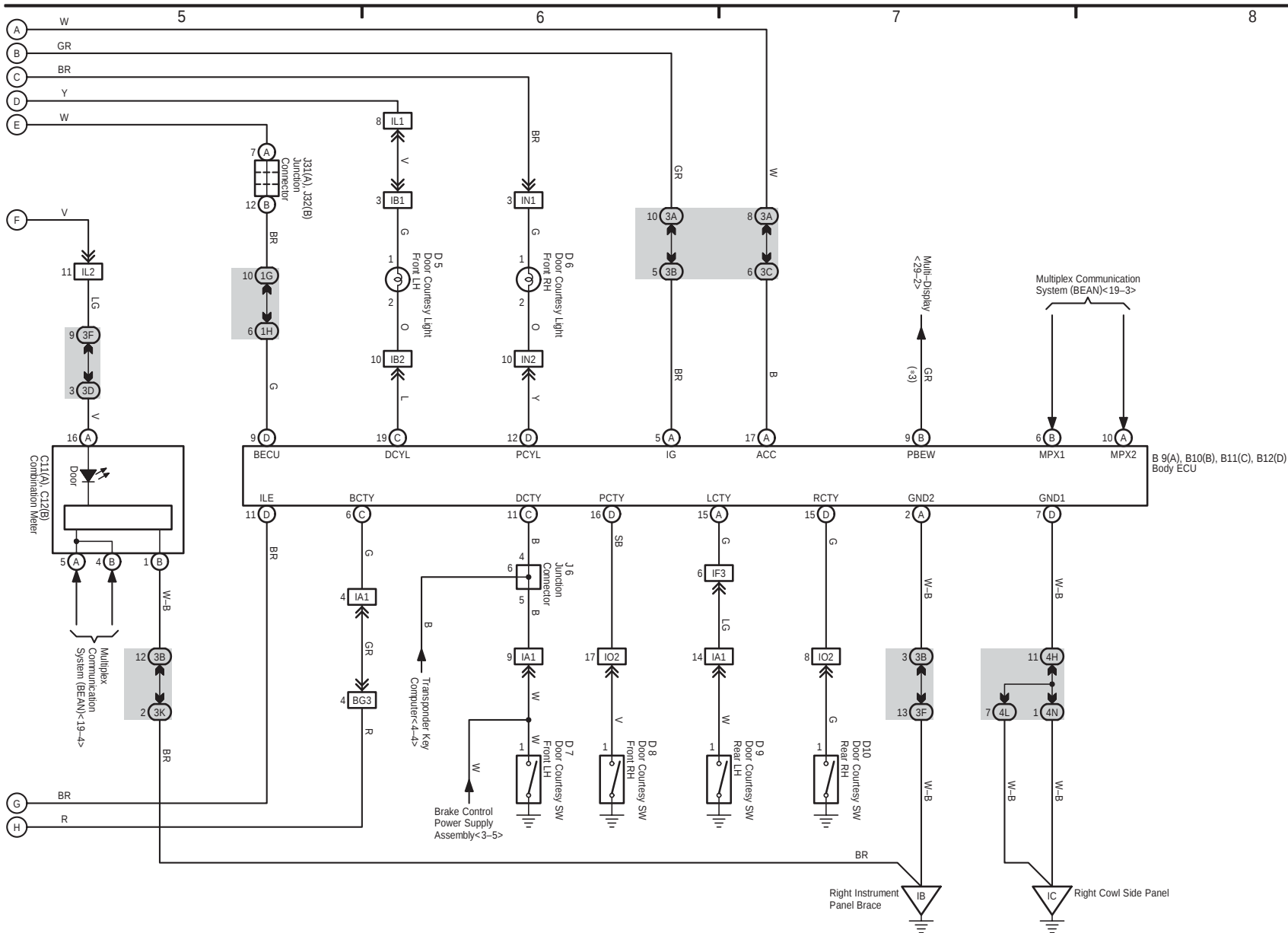




10 HIGHLANDER Hybrid Vehicle (Cont' d)

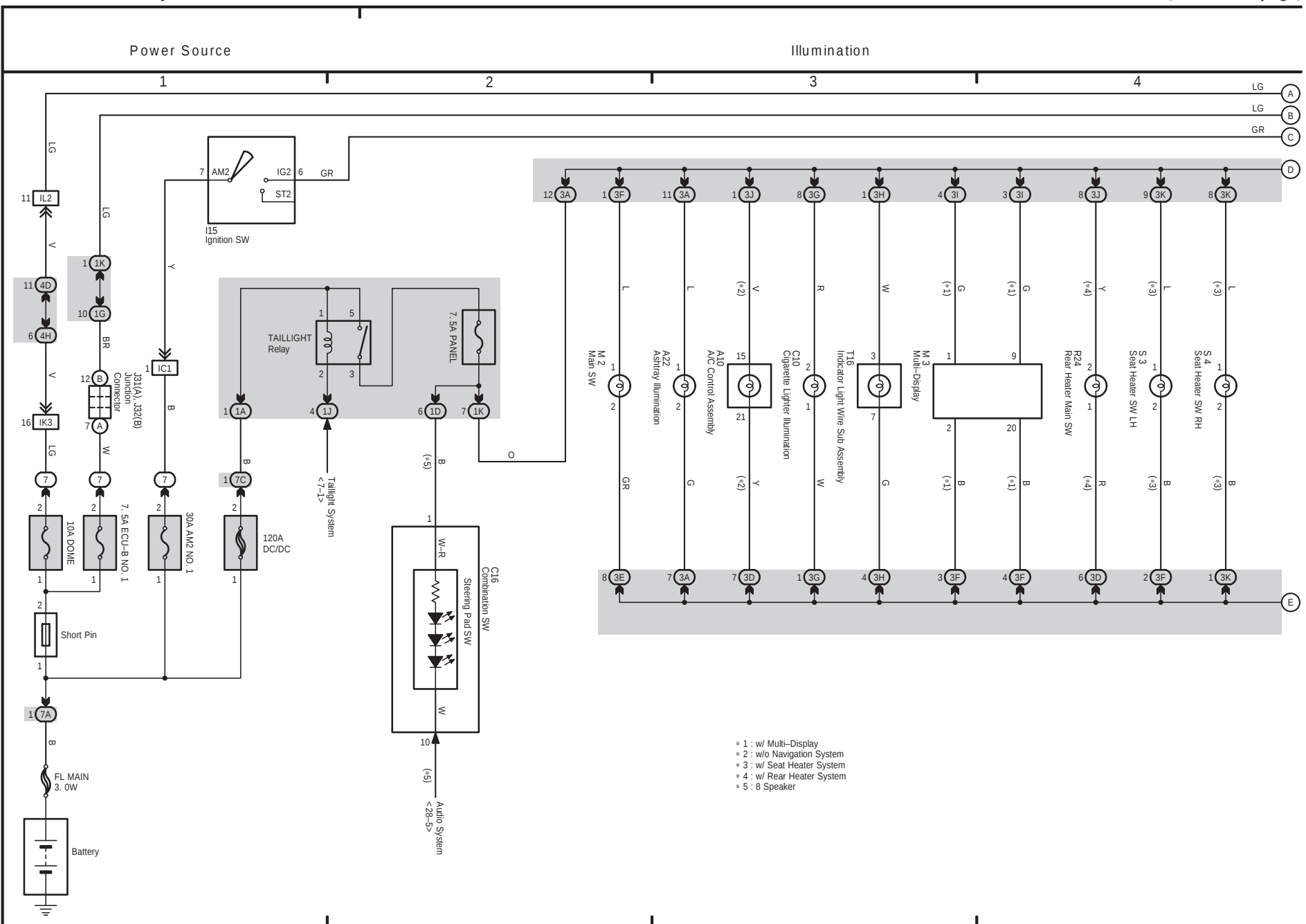
Interior Light and Garage Door Opener

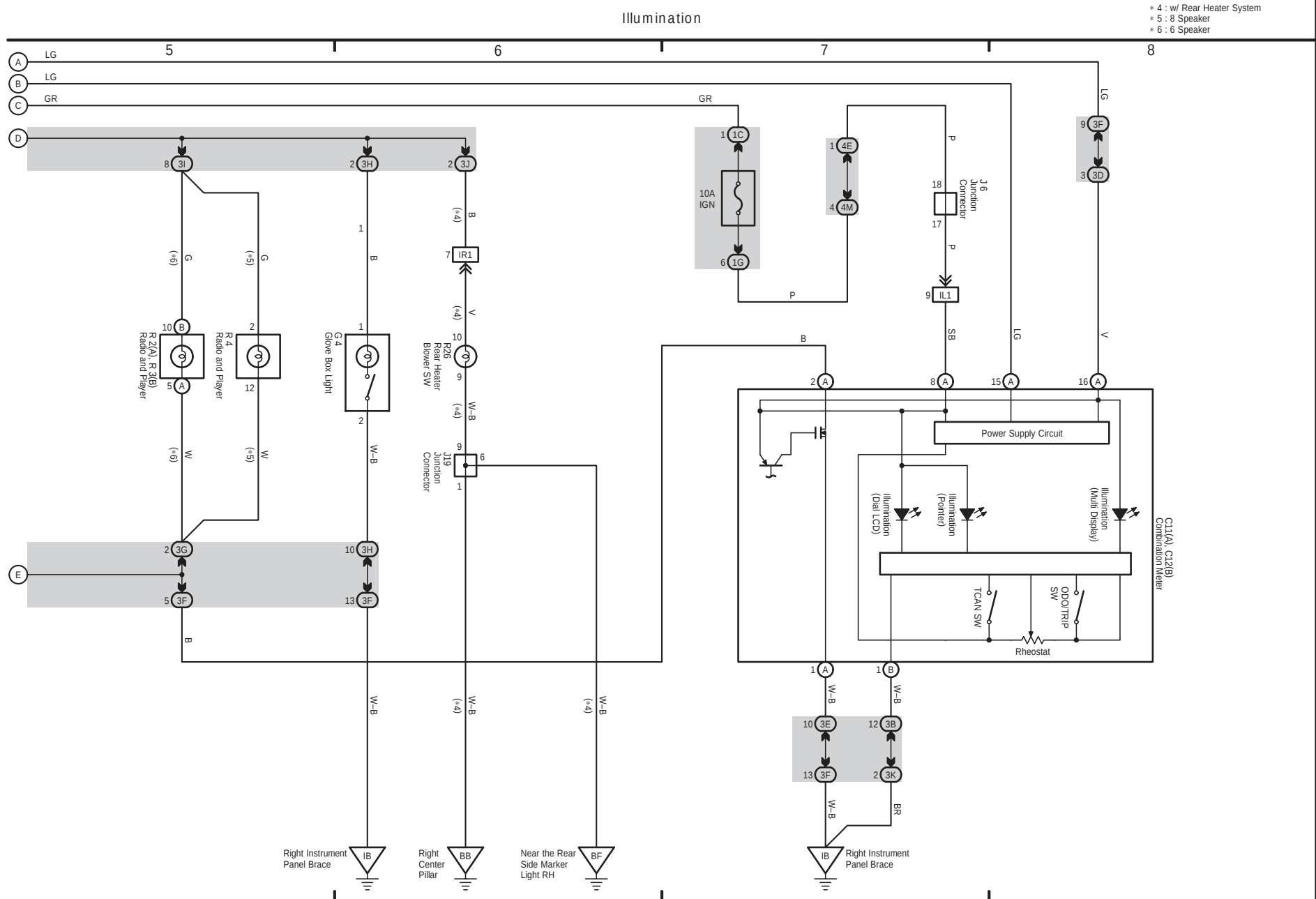
* 3 : w/ Navigation System



(Cont. next page)

11 HIGHLANDER Hybrid Vehicle

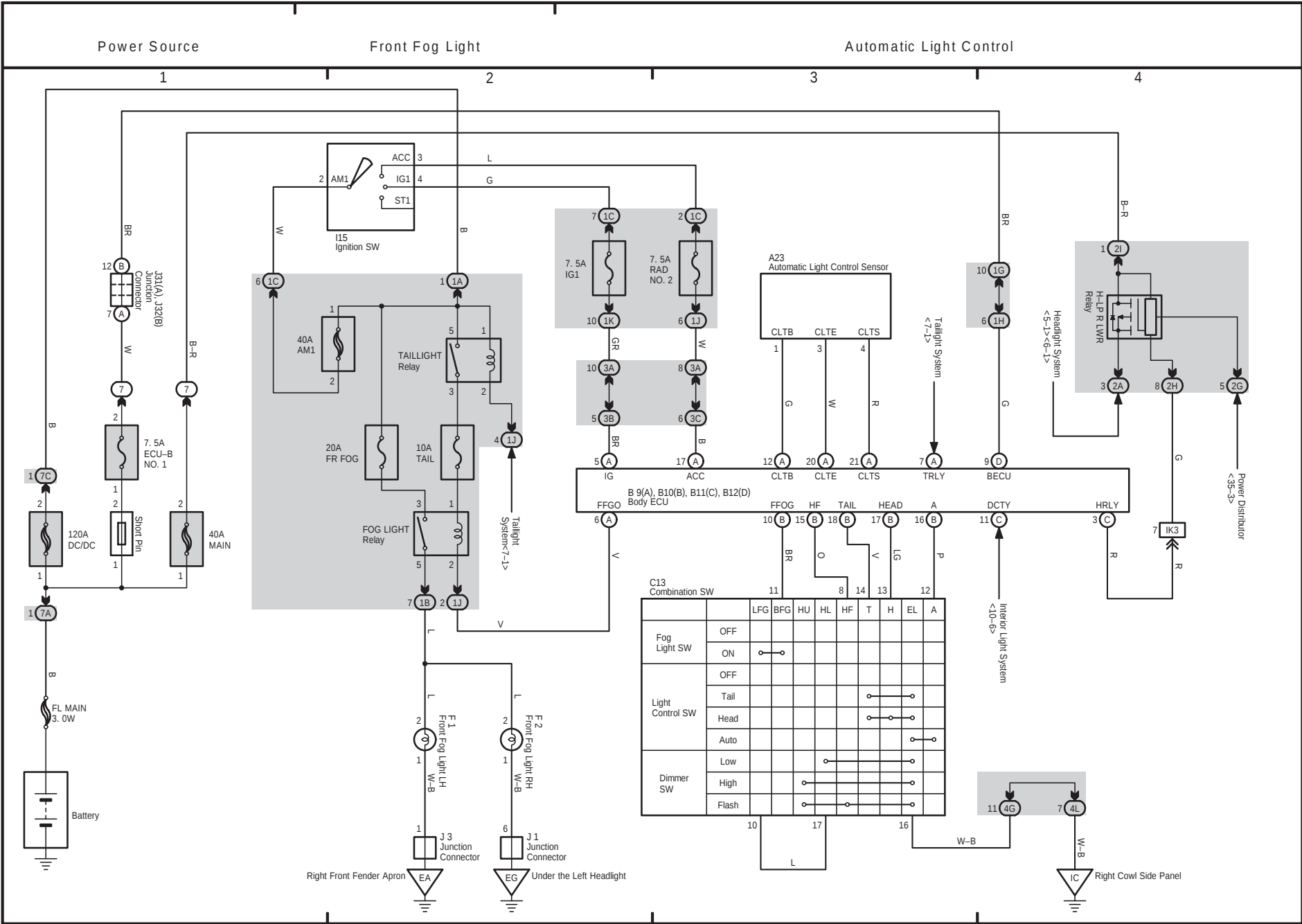




12 HIGHLANDER Hybrid Vehicle

400

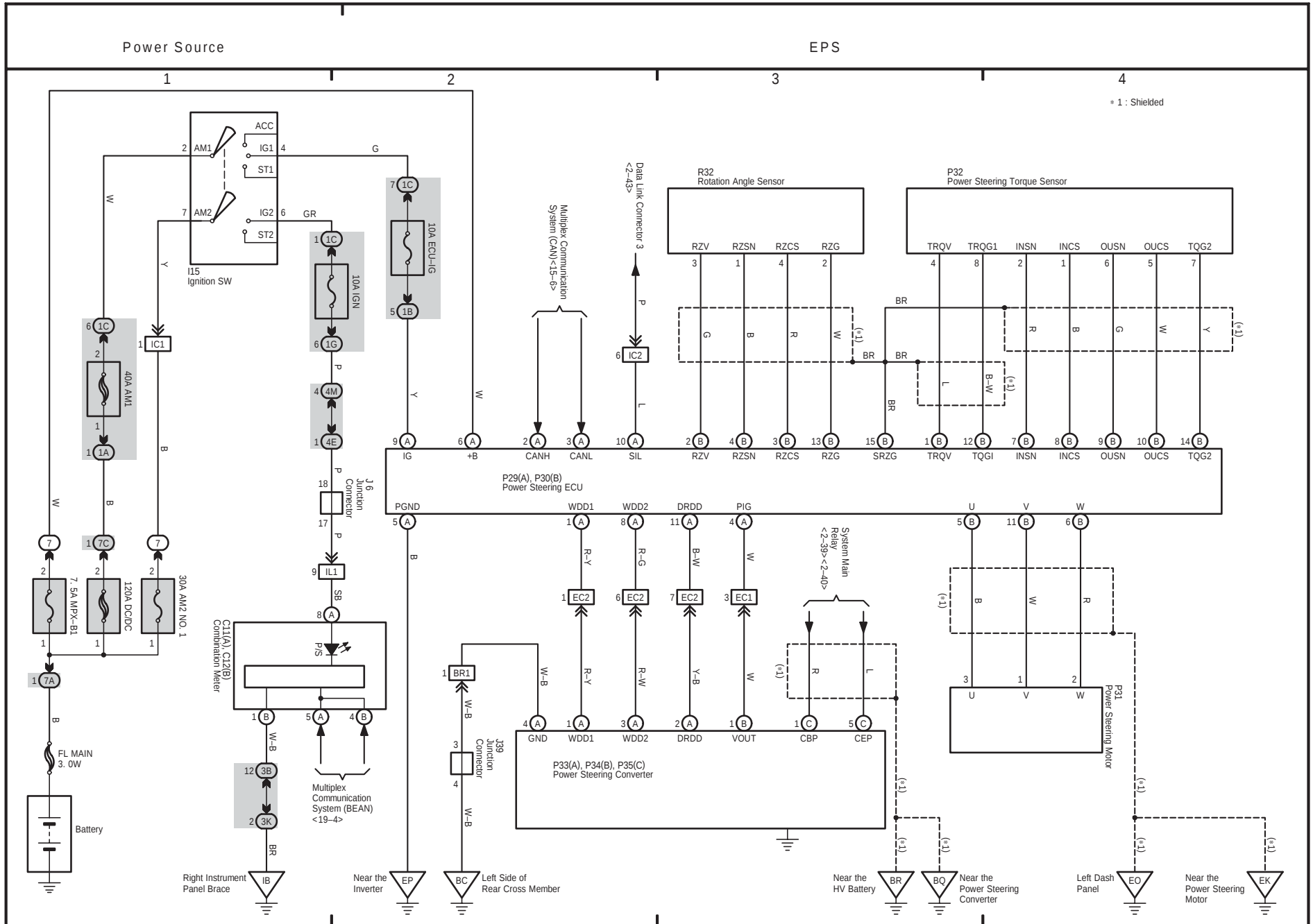
HIGHLANDER Hybrid Vehicle (EWD605U)



13 HIGHLANDER Hybrid Vehicle

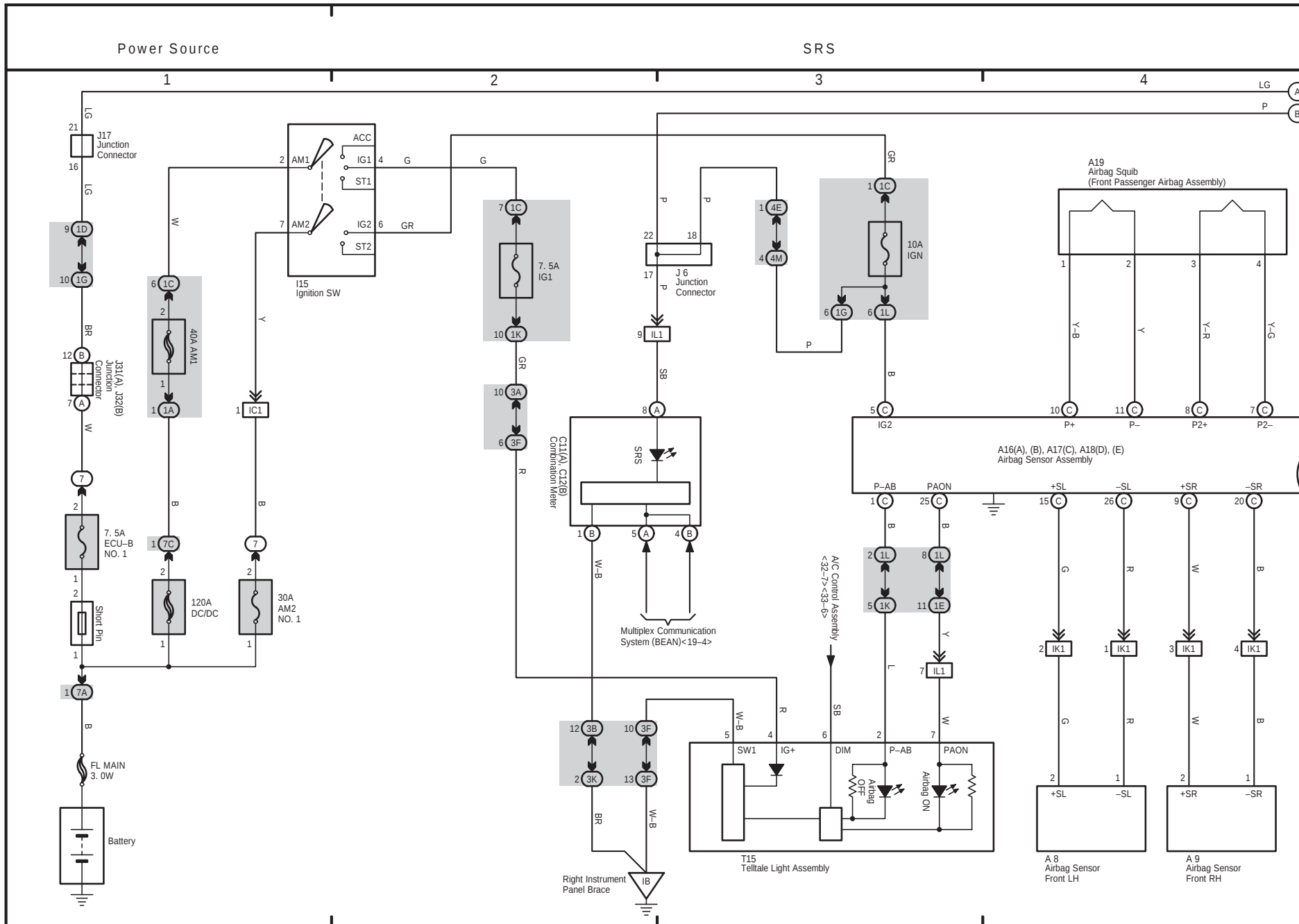
HIGHLANDER Hybrid Vehicle (EWD605U)

401



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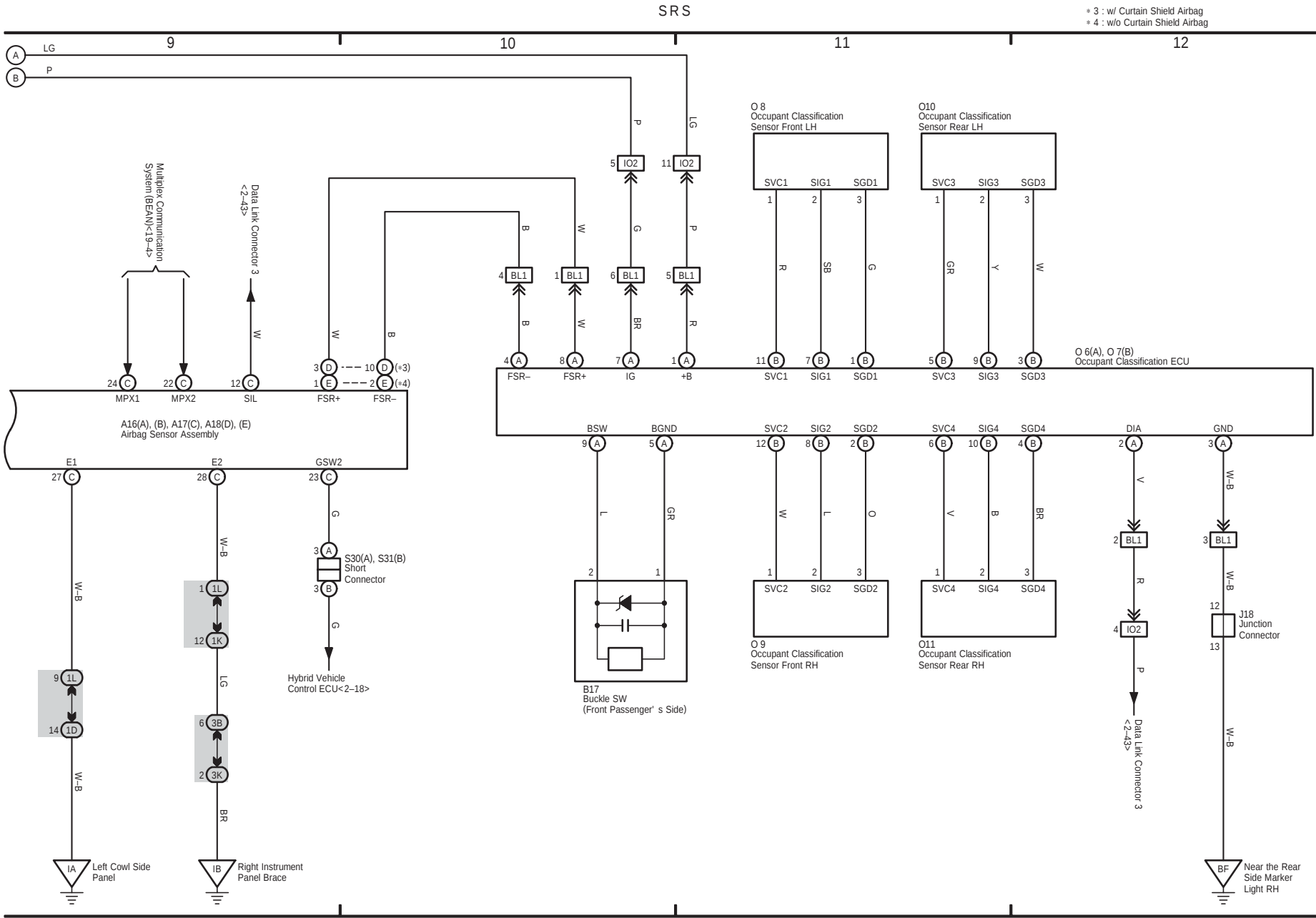
OVERALL ELECTRICAL WIRING DIAGRAM



- * 1 : w/ Rear Seat Entertainment System
- * 2 : w/o Rear Seat Entertainment System
- * 3 : w/ Curtain Shield Airbag
- * 4 : w/o Curtain Shield Airbag



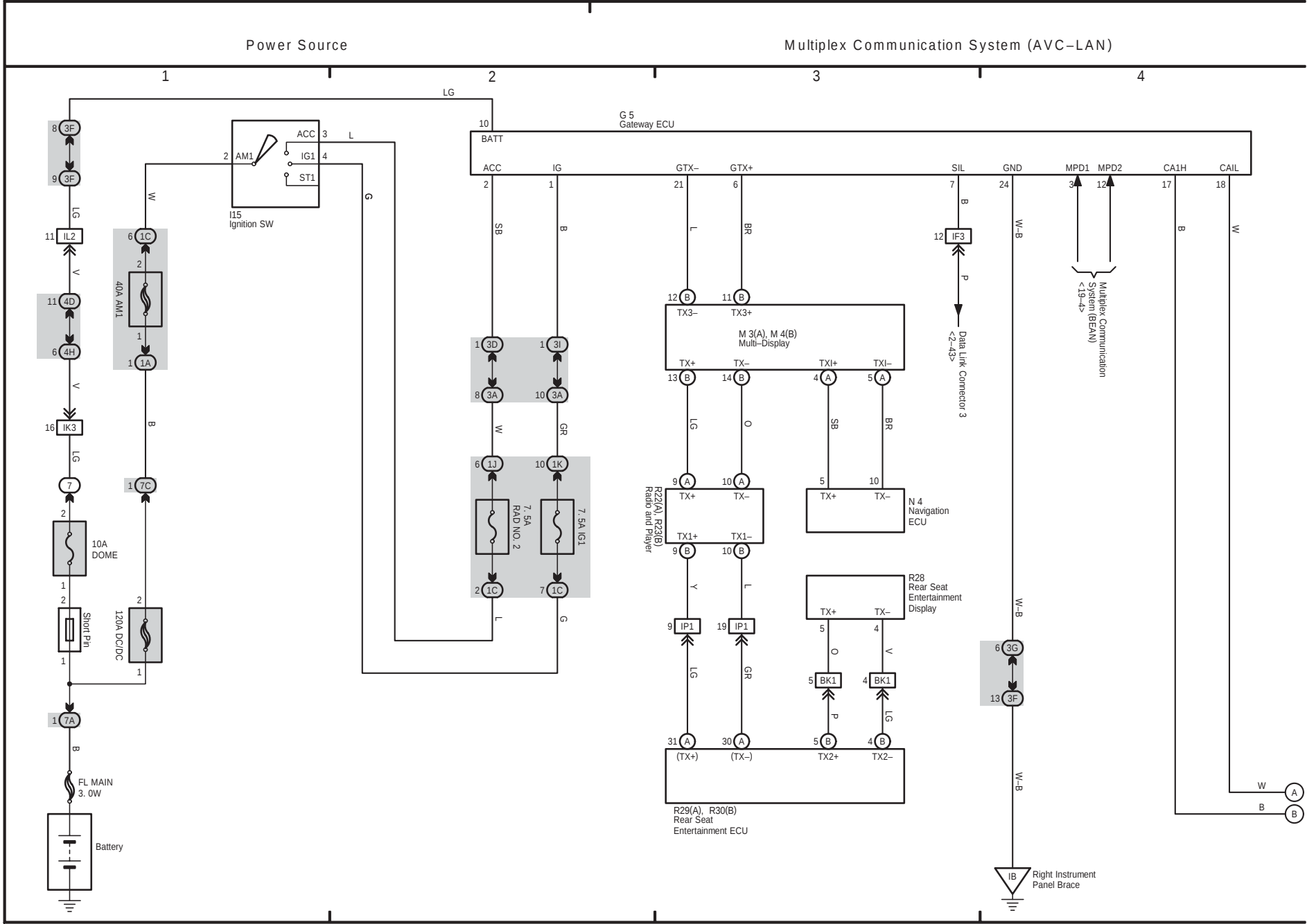
14 HIGHLANDER Hybrid Vehicle (Cont' d)



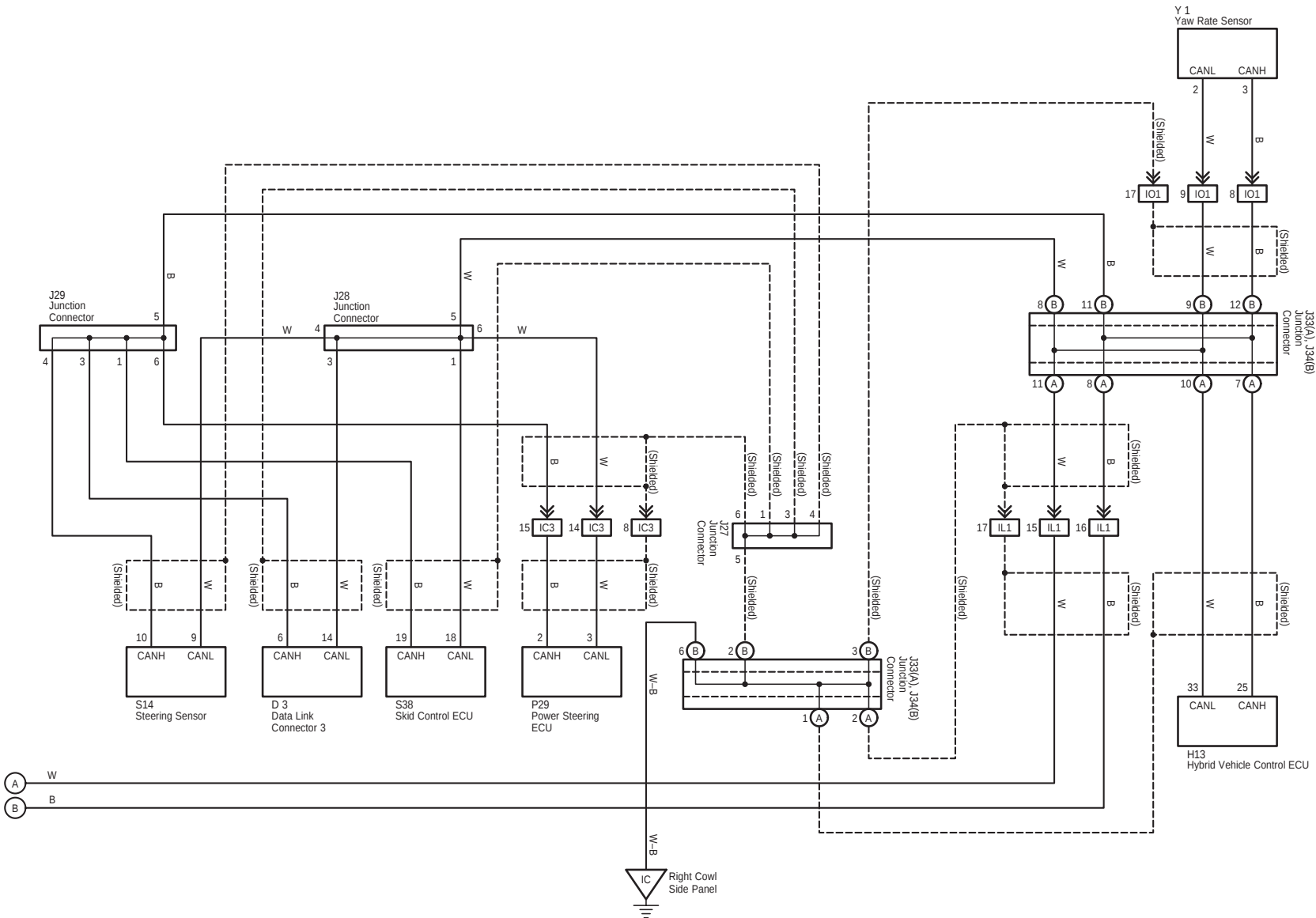
15 HIGHLANDER Hybrid Vehicle

(Cont. next page)

M OVERALL ELECTRICAL WIRING DIAGRAM



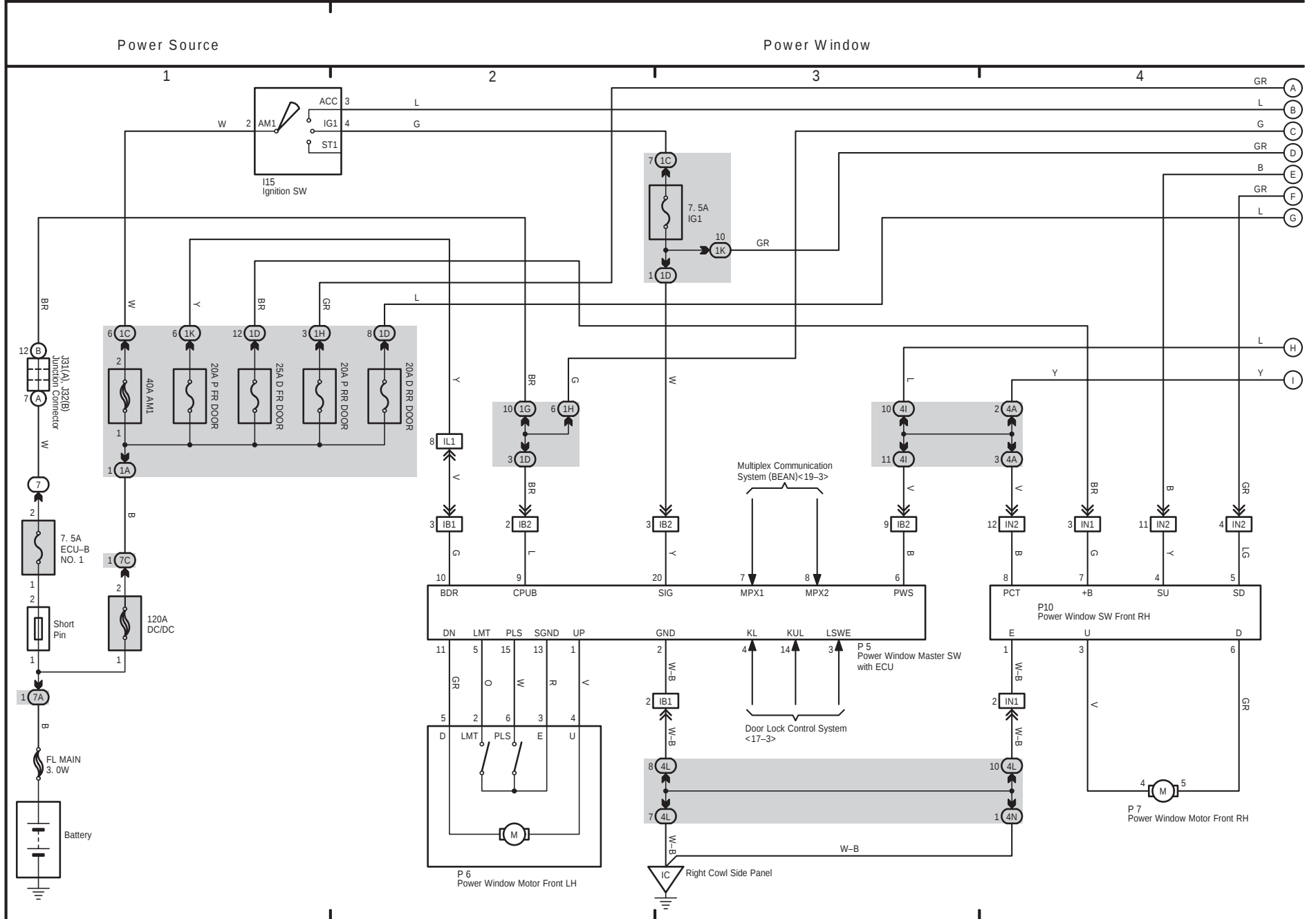
Multiplex Communication System (CAN)



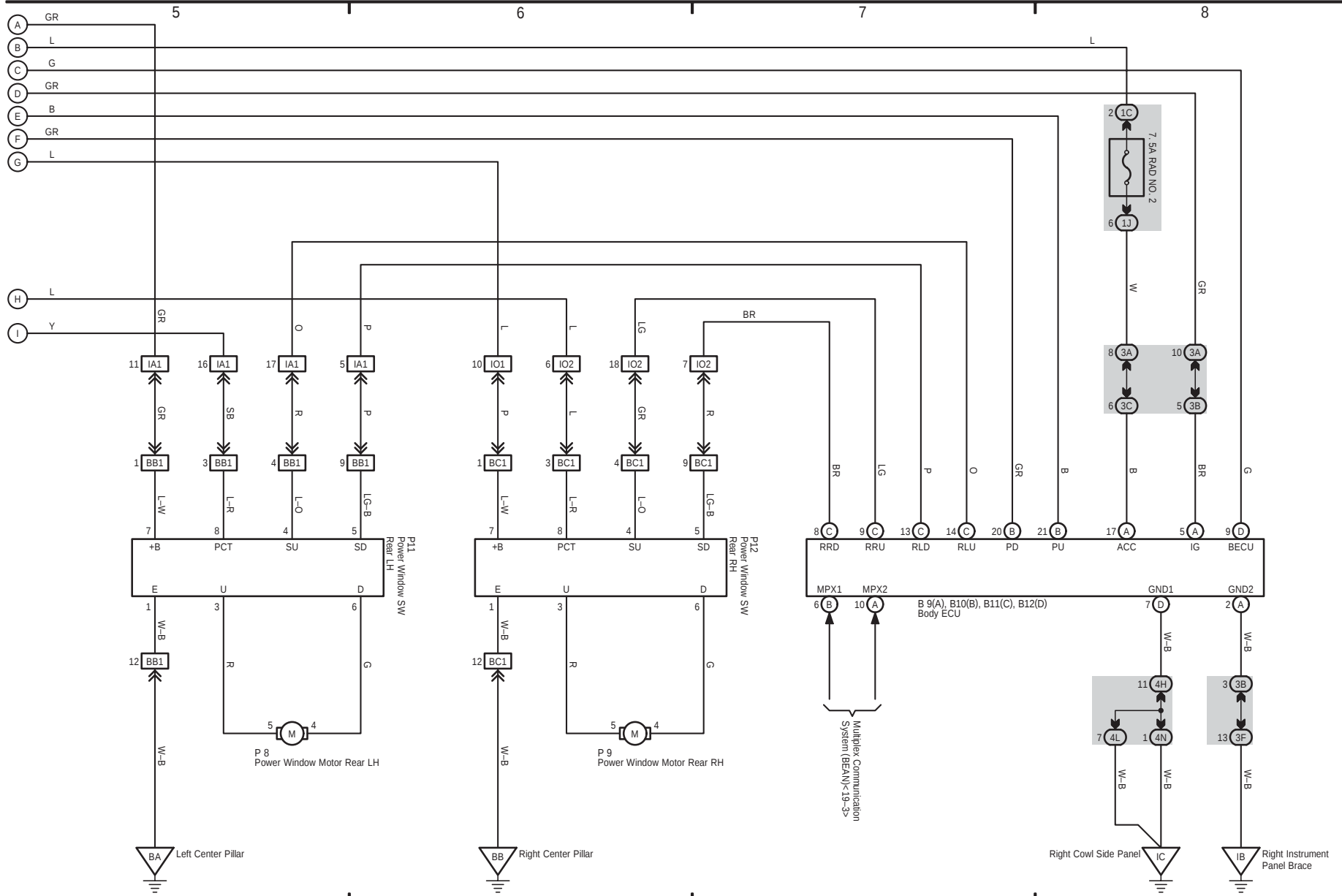
16 HIGHLANDER Hybrid Vehicle

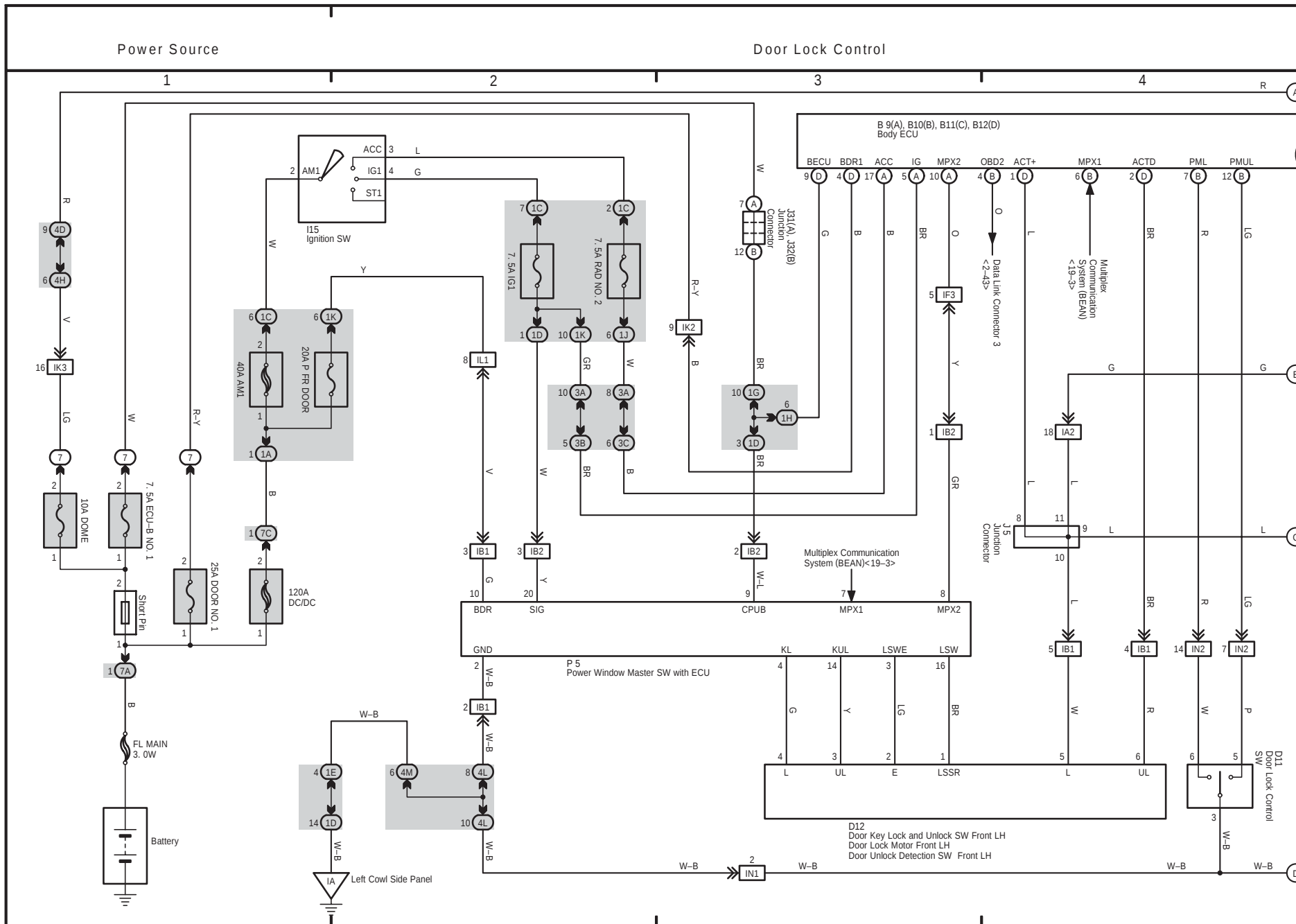
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M OVERALL ELECTRICAL WIRING DIAGRAM

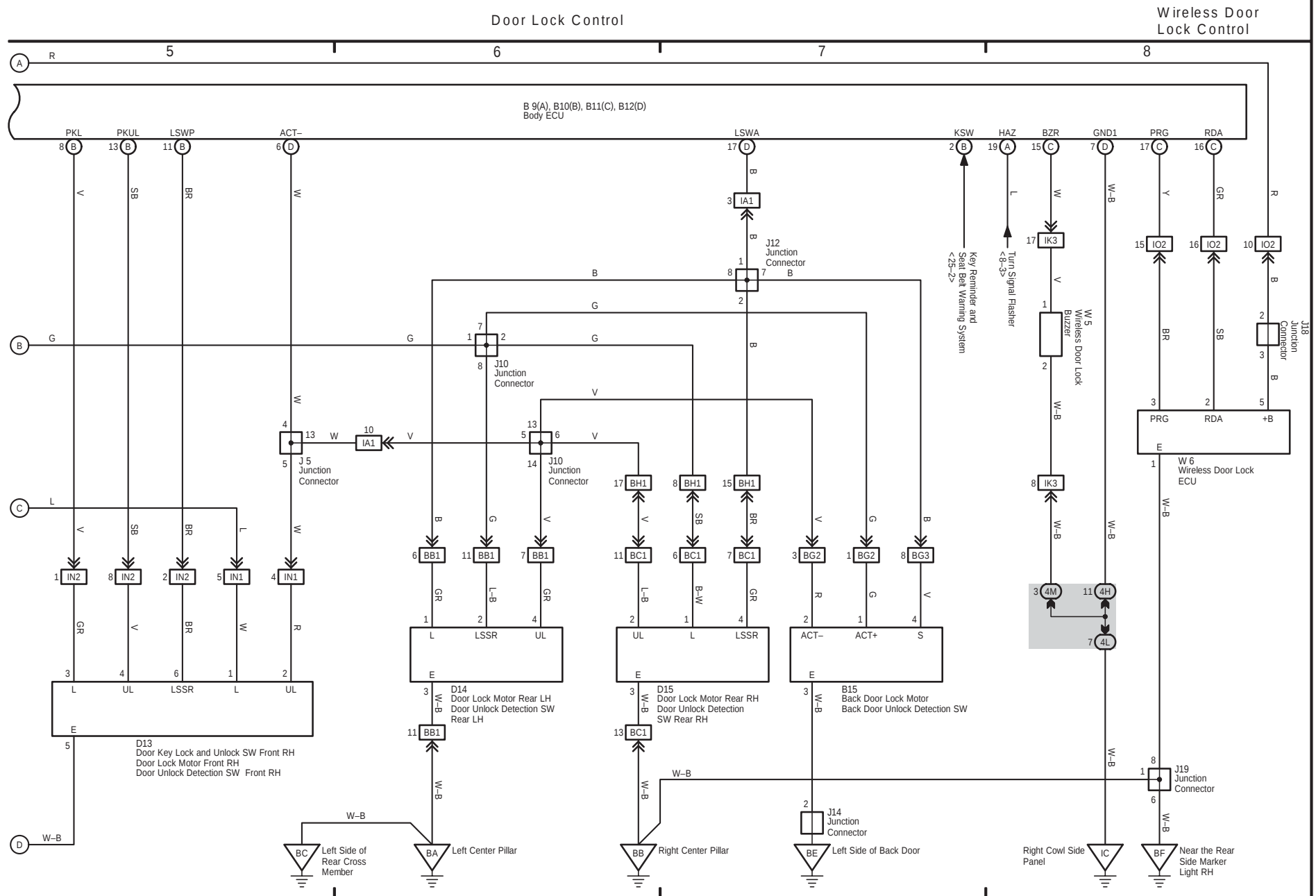


Power Window





HIGHLANDER Hybrid Vehicle (EWD605U)



HIGHLANDER Hybrid Vehicle (EWD605U)



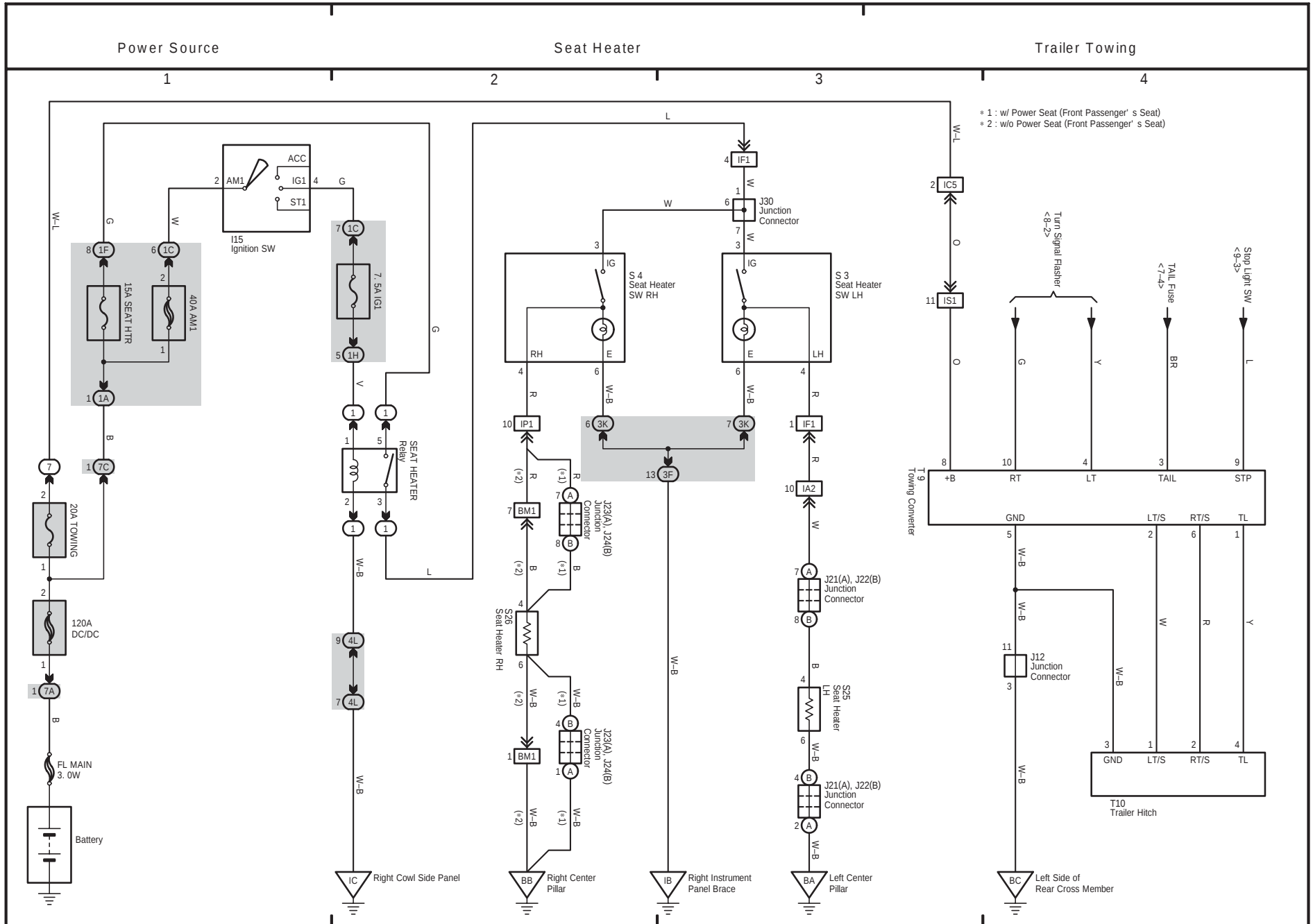
HIGHLANDER Hybrid Vehicle (EWD605U)



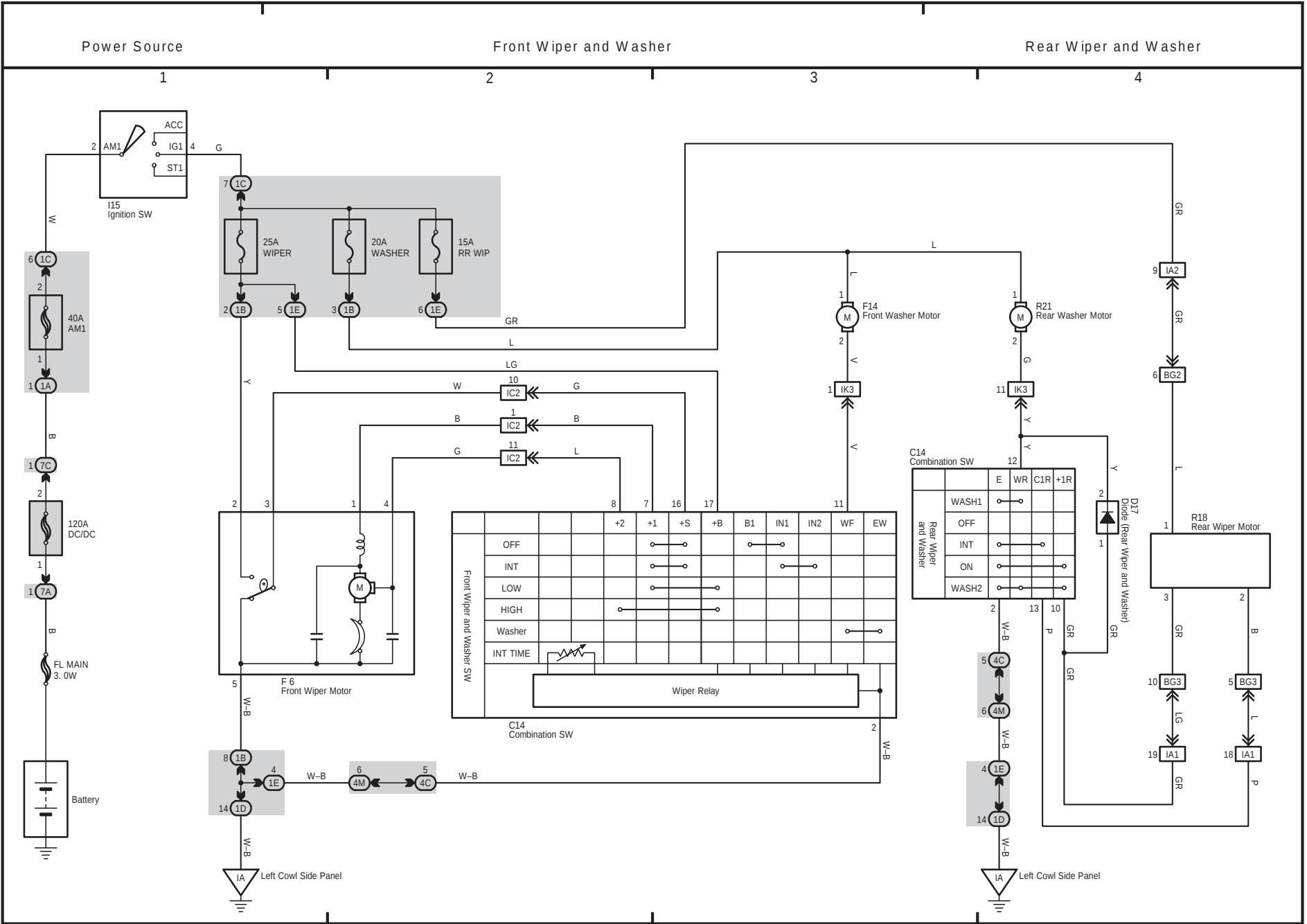
21 HIGHLANDER Hybrid Vehicle

HIGHLANDER Hybrid Vehicle (EWD605U)

415



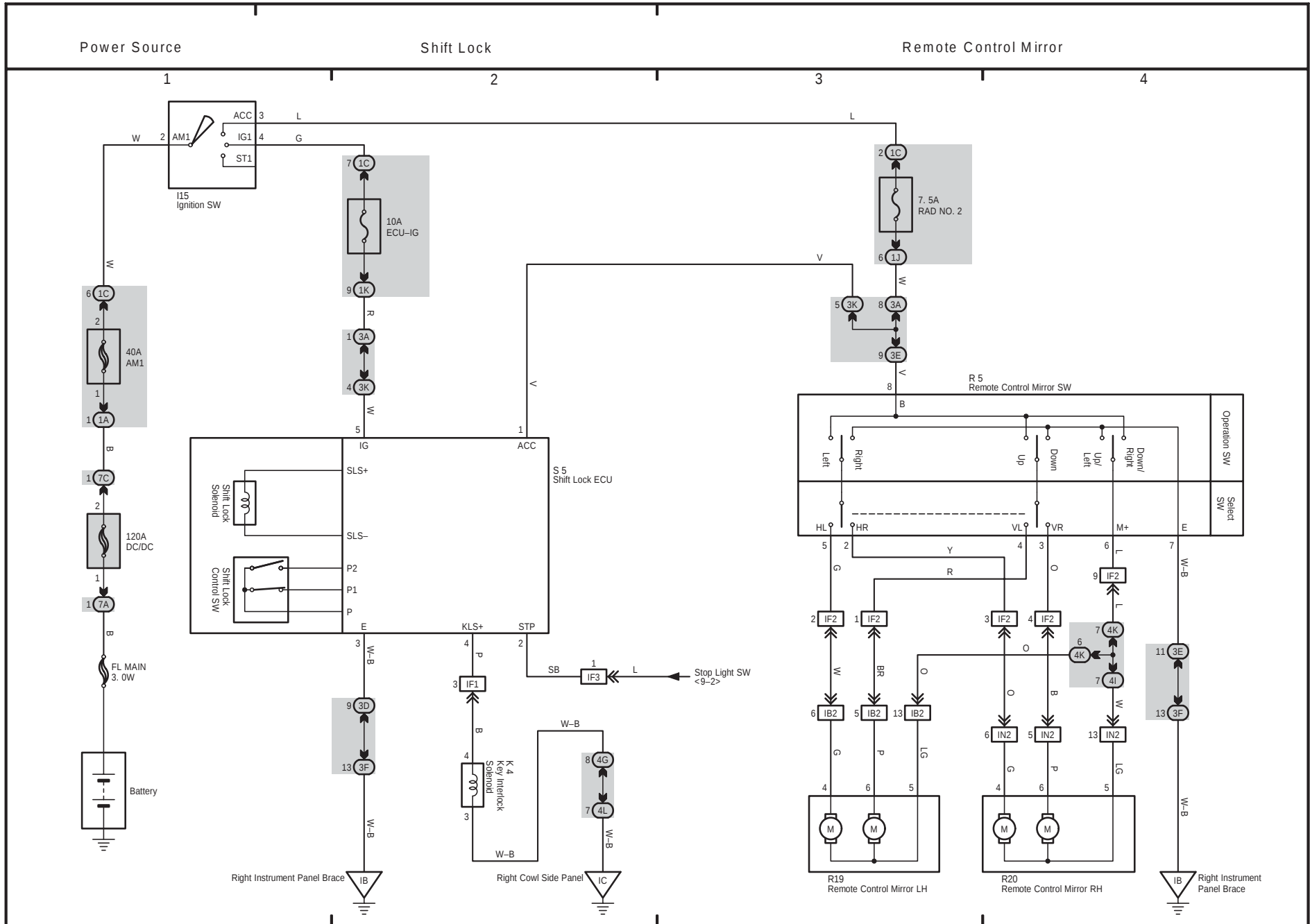
22 HIGHLANDER Hybrid Vehicle



23 HIGHLANDER Hybrid Vehicle

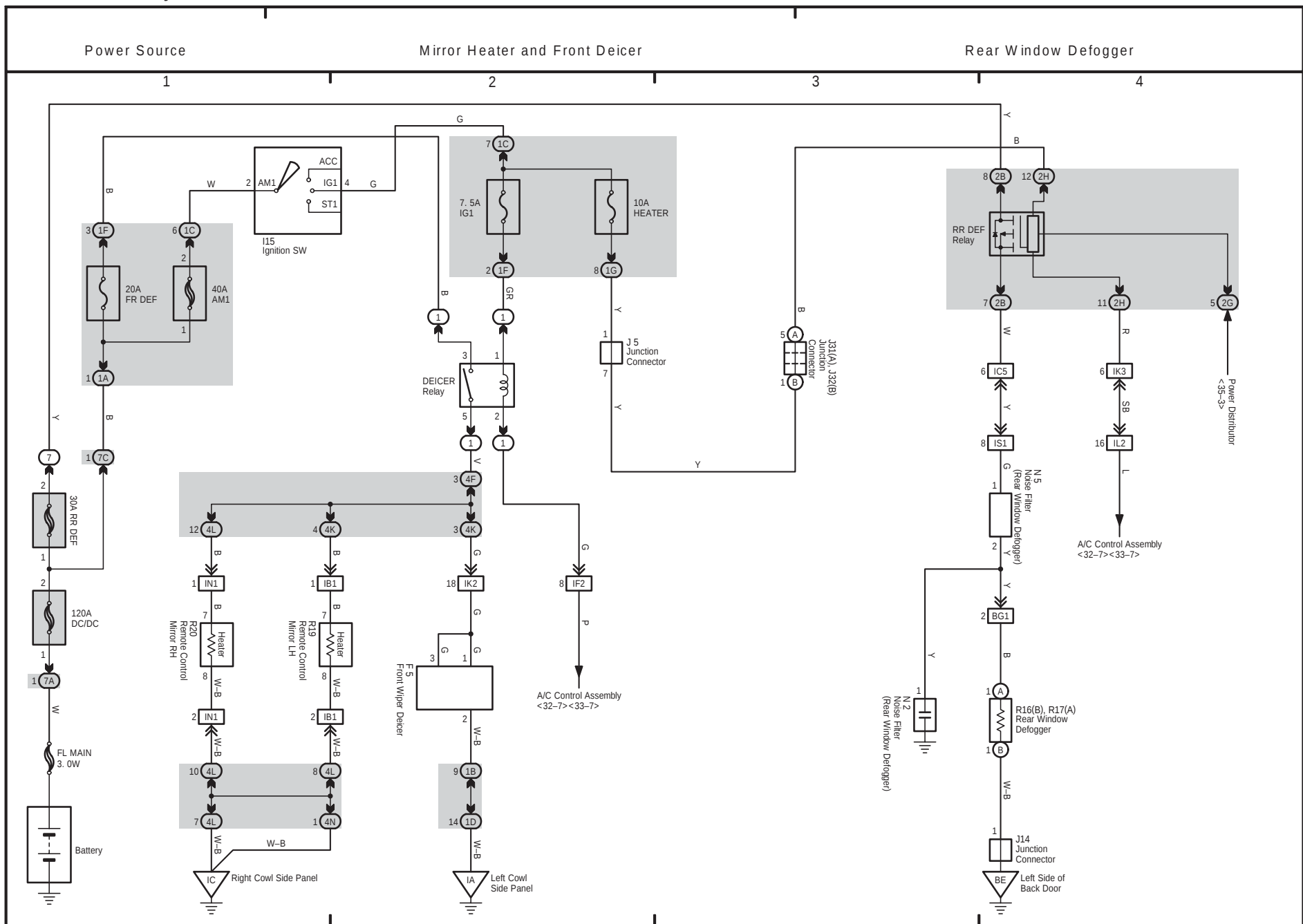
HIGHLANDER Hybrid Vehicle (EWD605U)

417

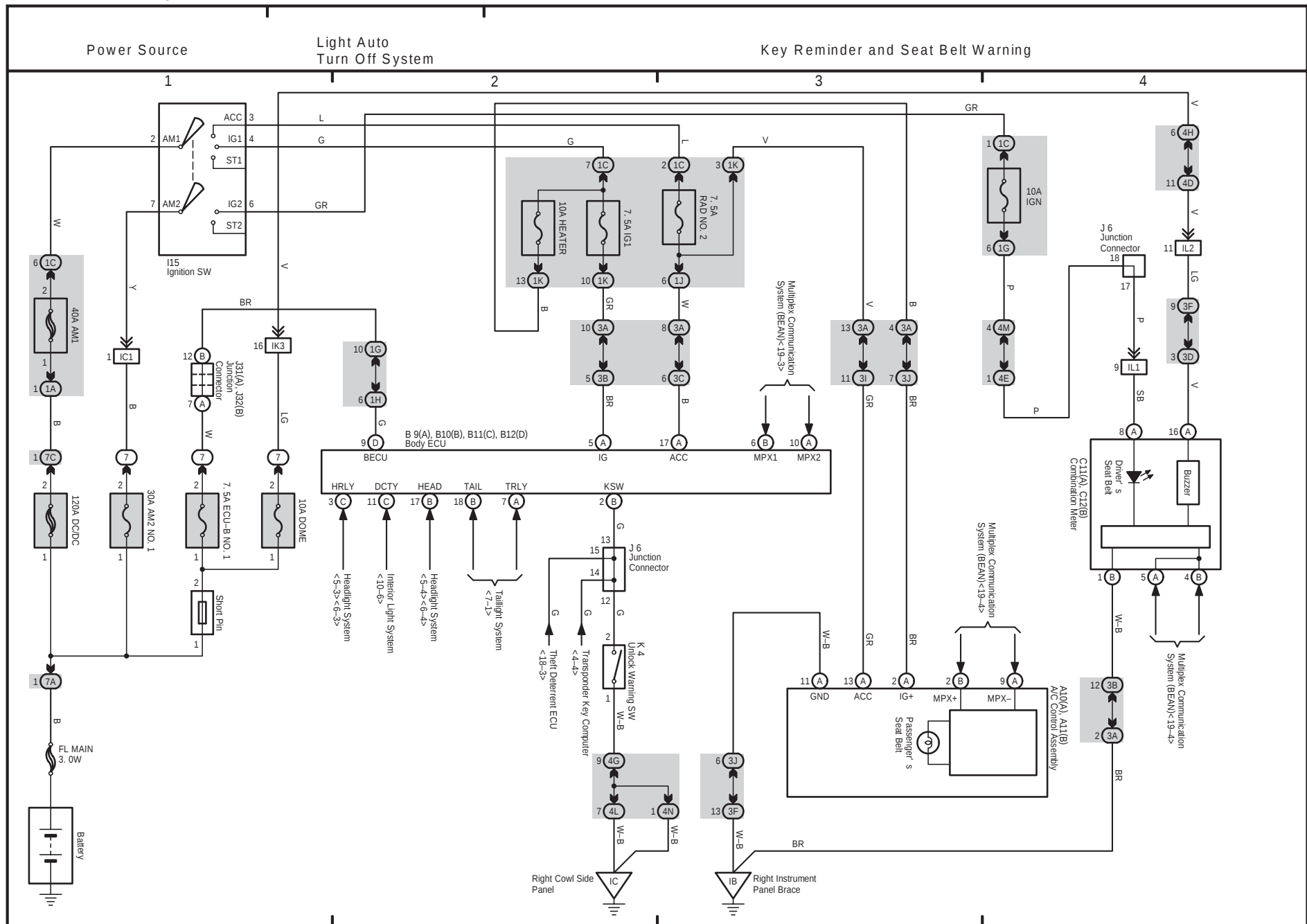


HIGHLANDER Hybrid Vehicle (EWD605U)

24 HIGHLANDER Hybrid Vehicle



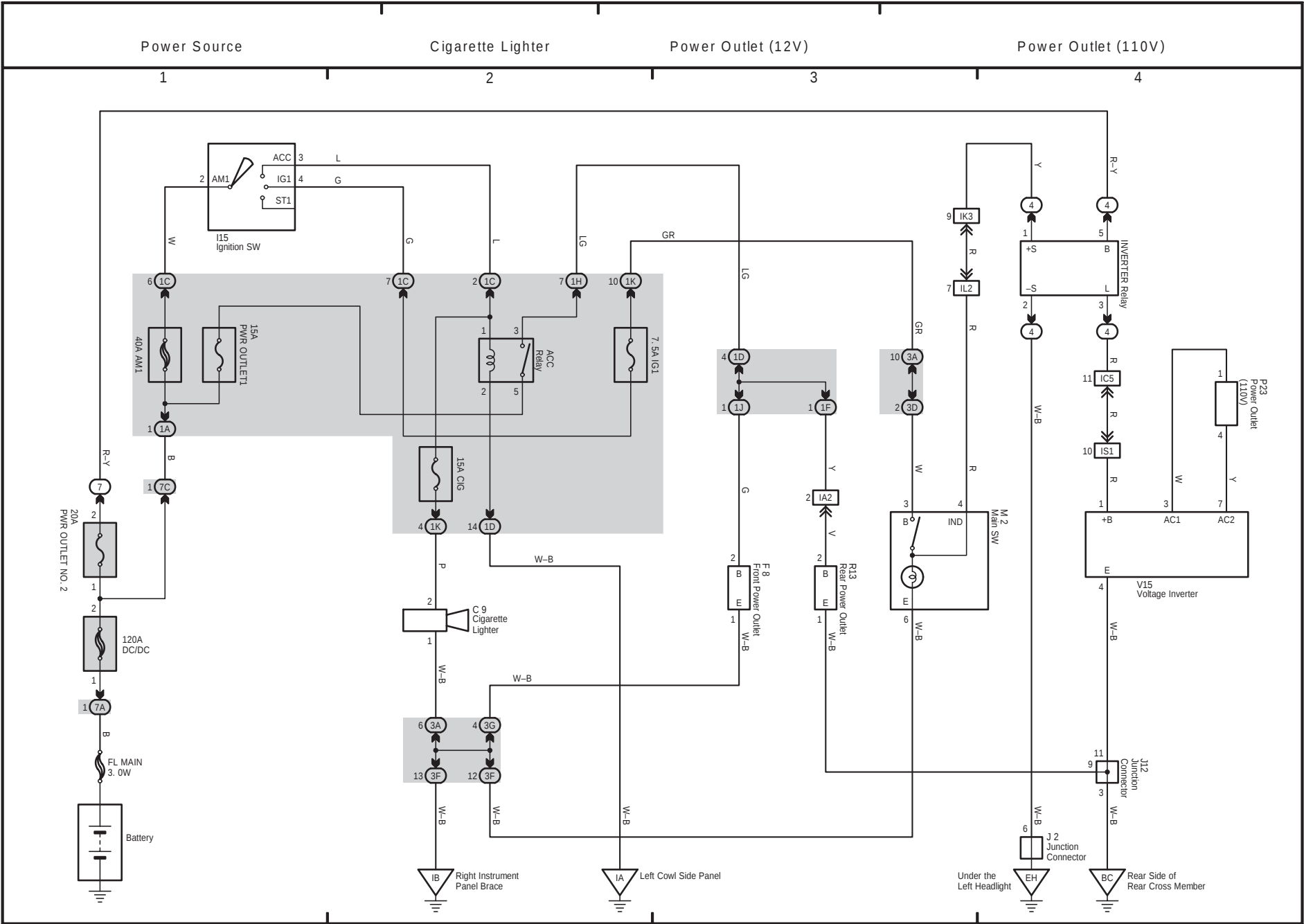
HIGHLANDER Hybrid Vehicle (EWD605U)



26 HIGHLANDER Hybrid Vehicle

420

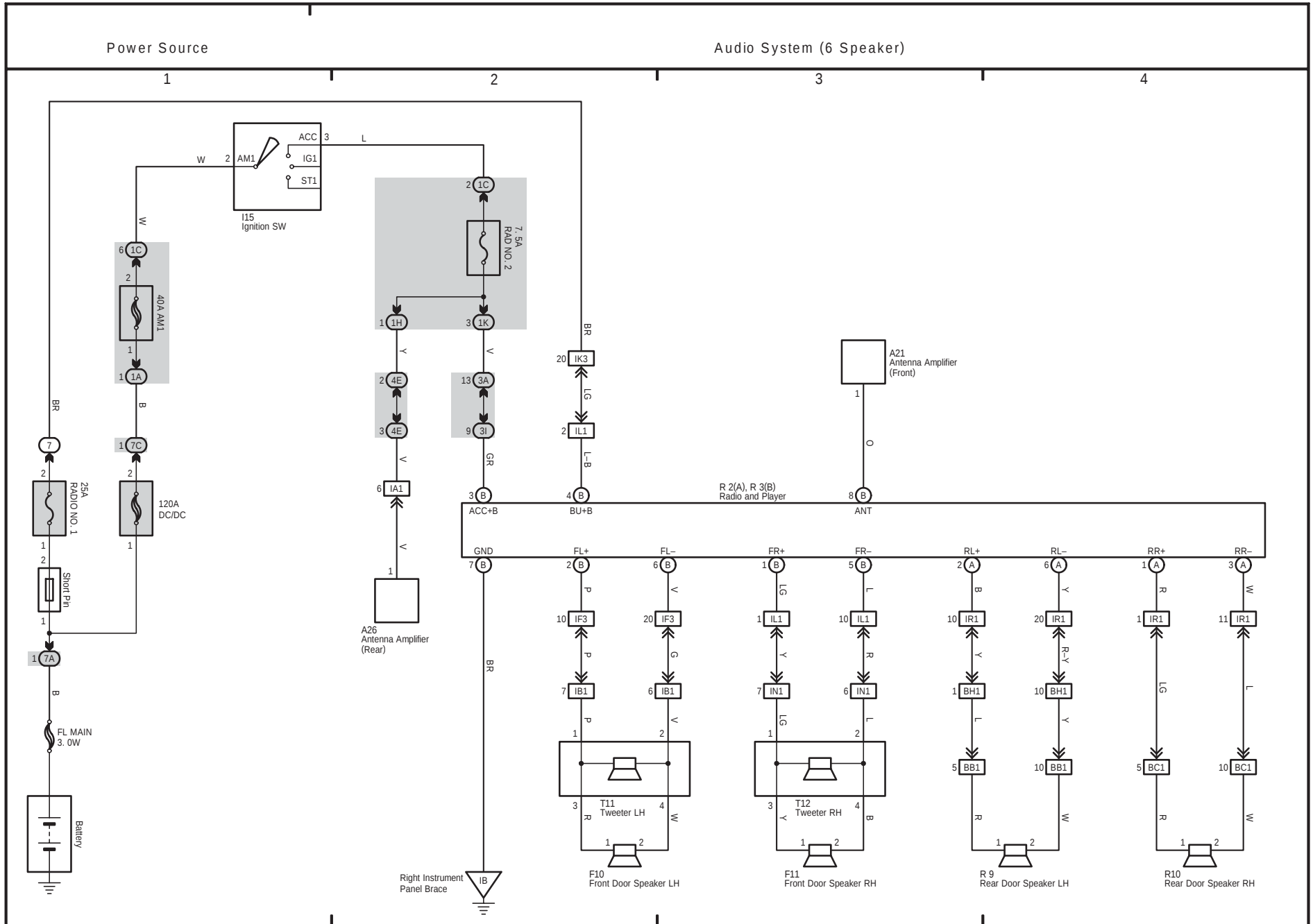
HIGHLANDER Hybrid Vehicle (EWD605U)

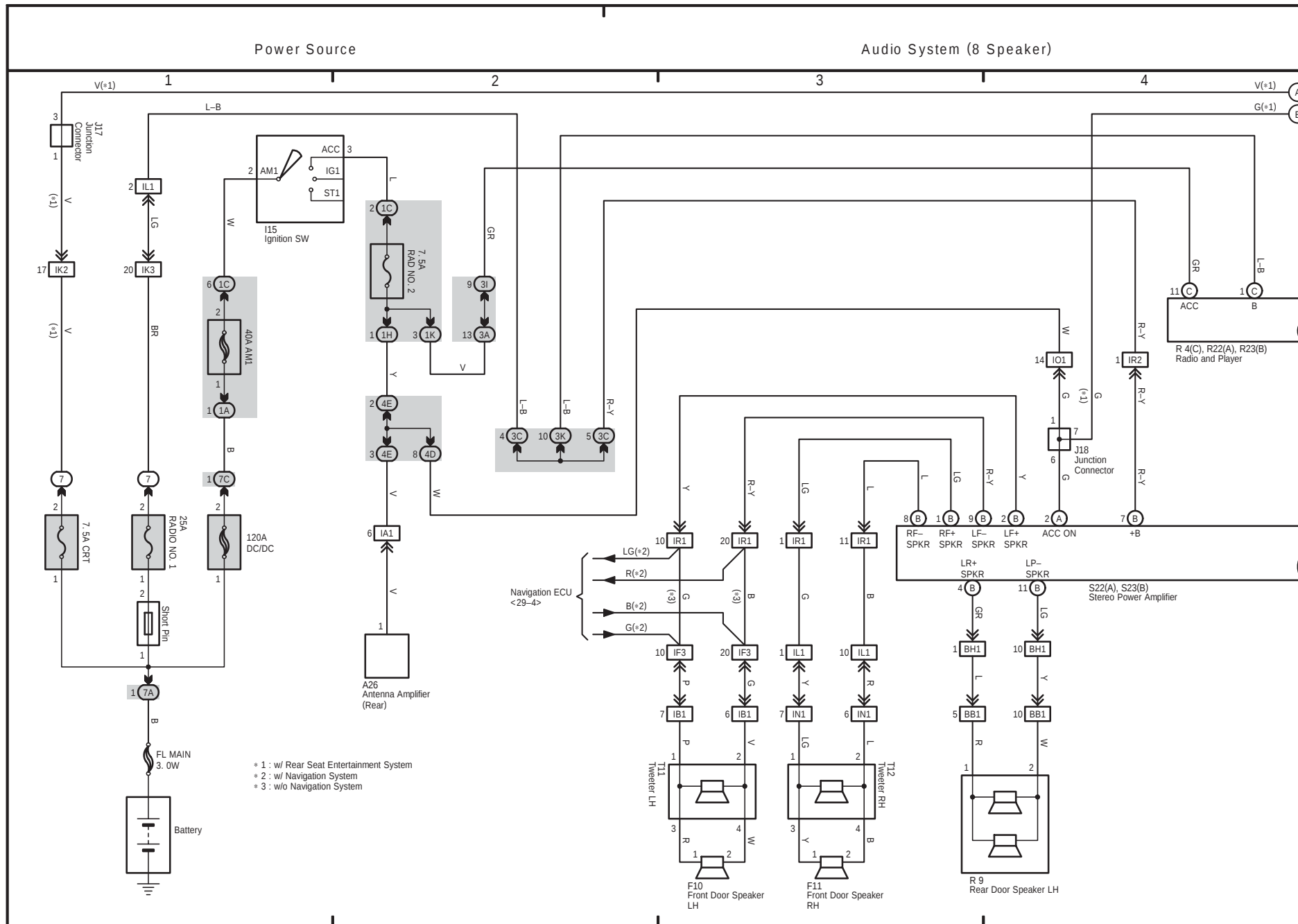


27 HIGHLANDER Hybrid Vehicle

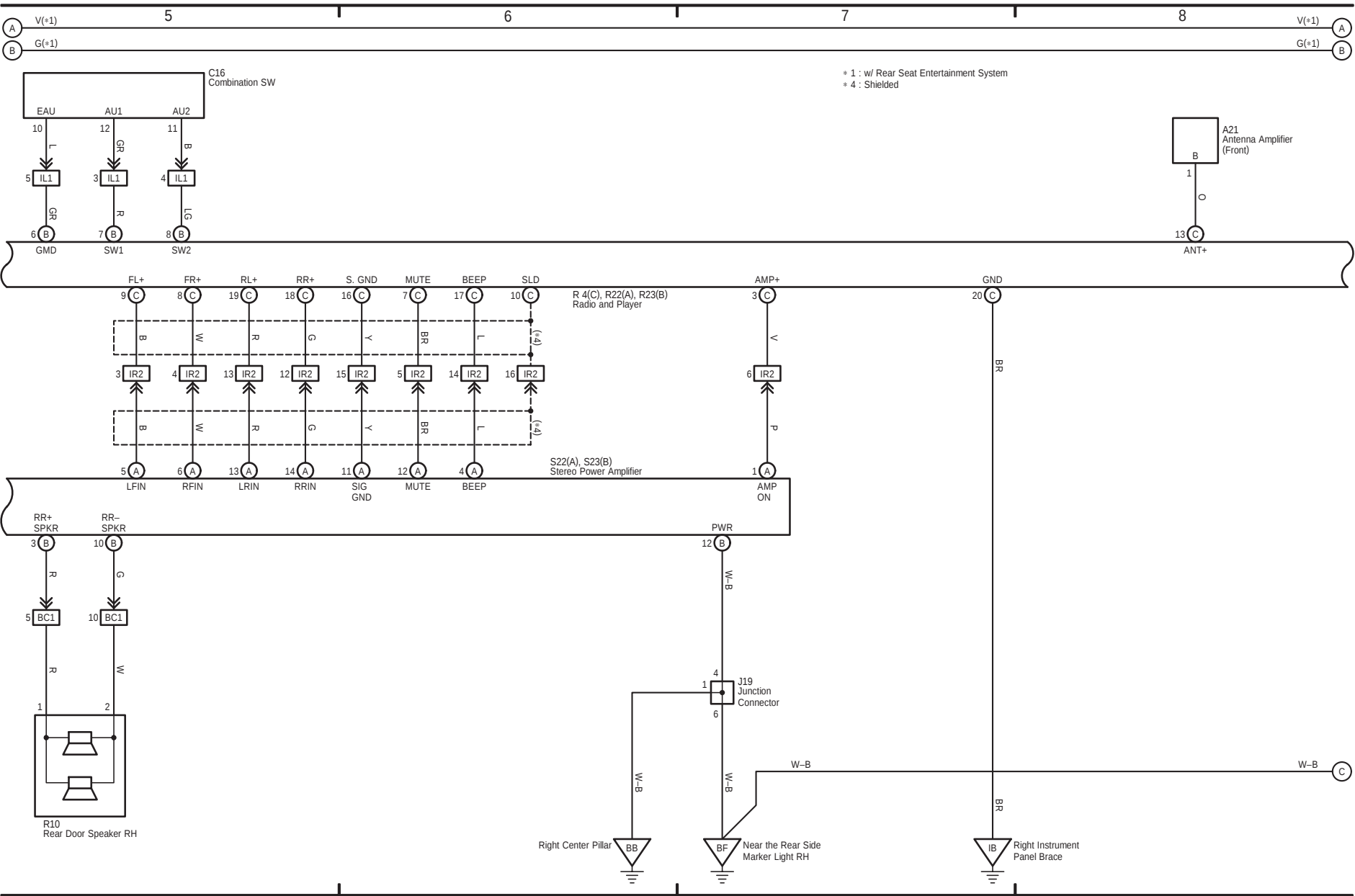
HIGHLANDER Hybrid Vehicle (EWD605U)

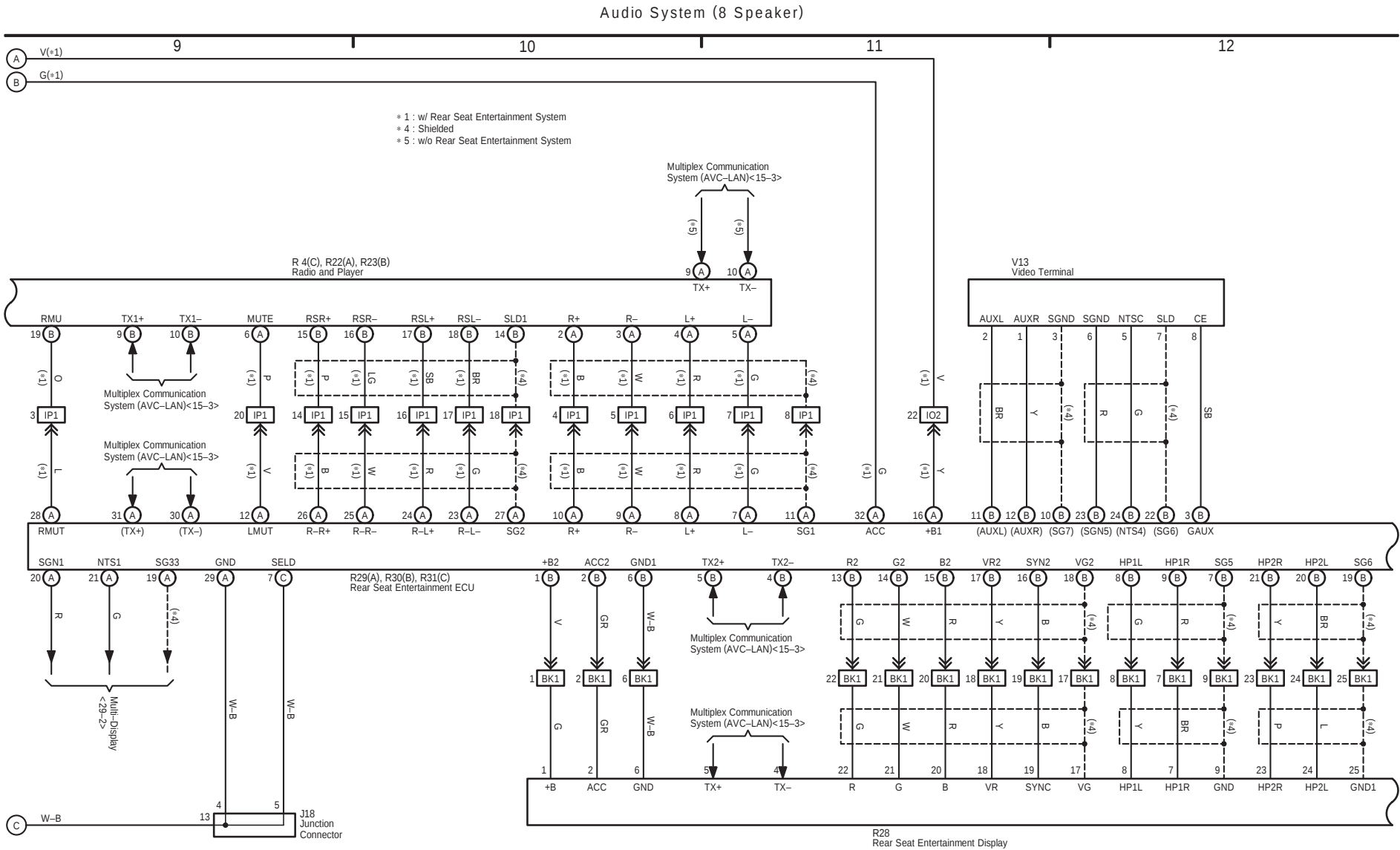
421





Audio System (8 Speaker)

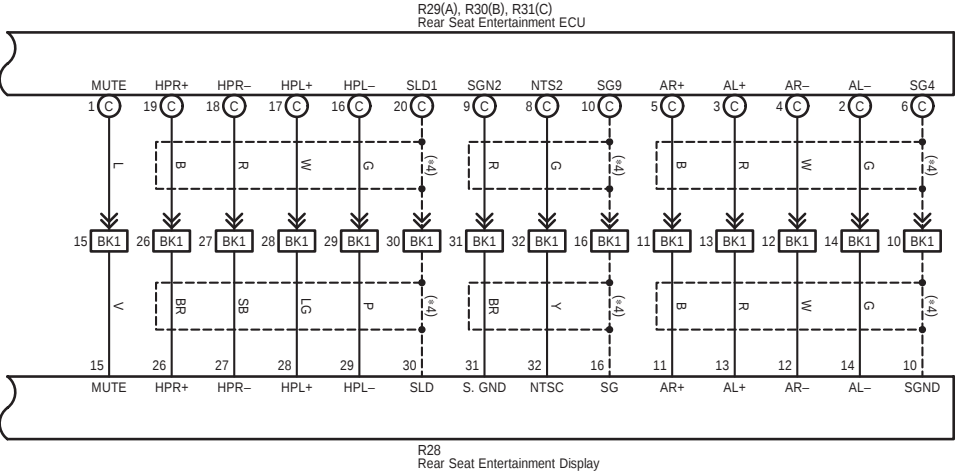




Audio System (8 Speaker)

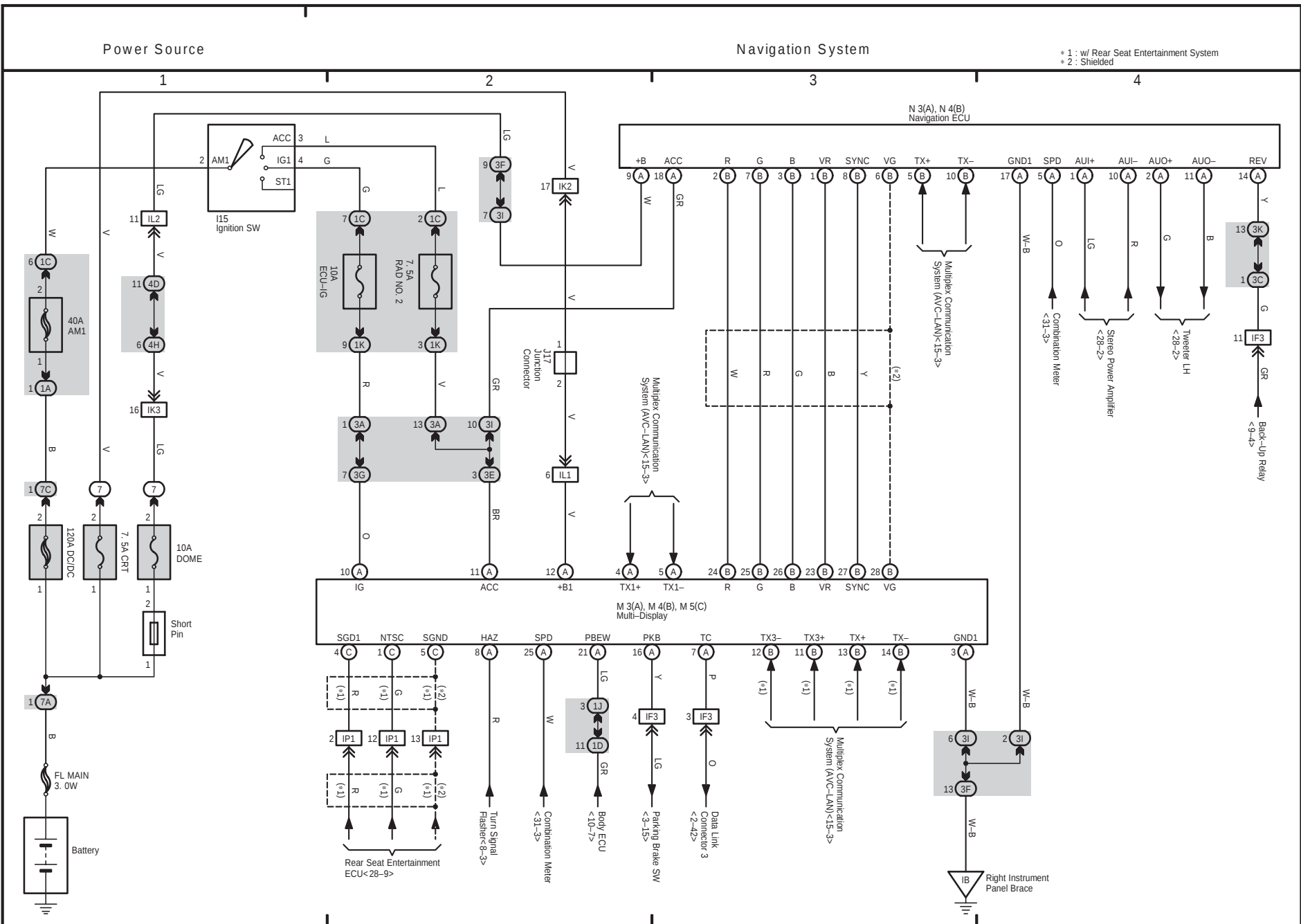
13 14 15 16

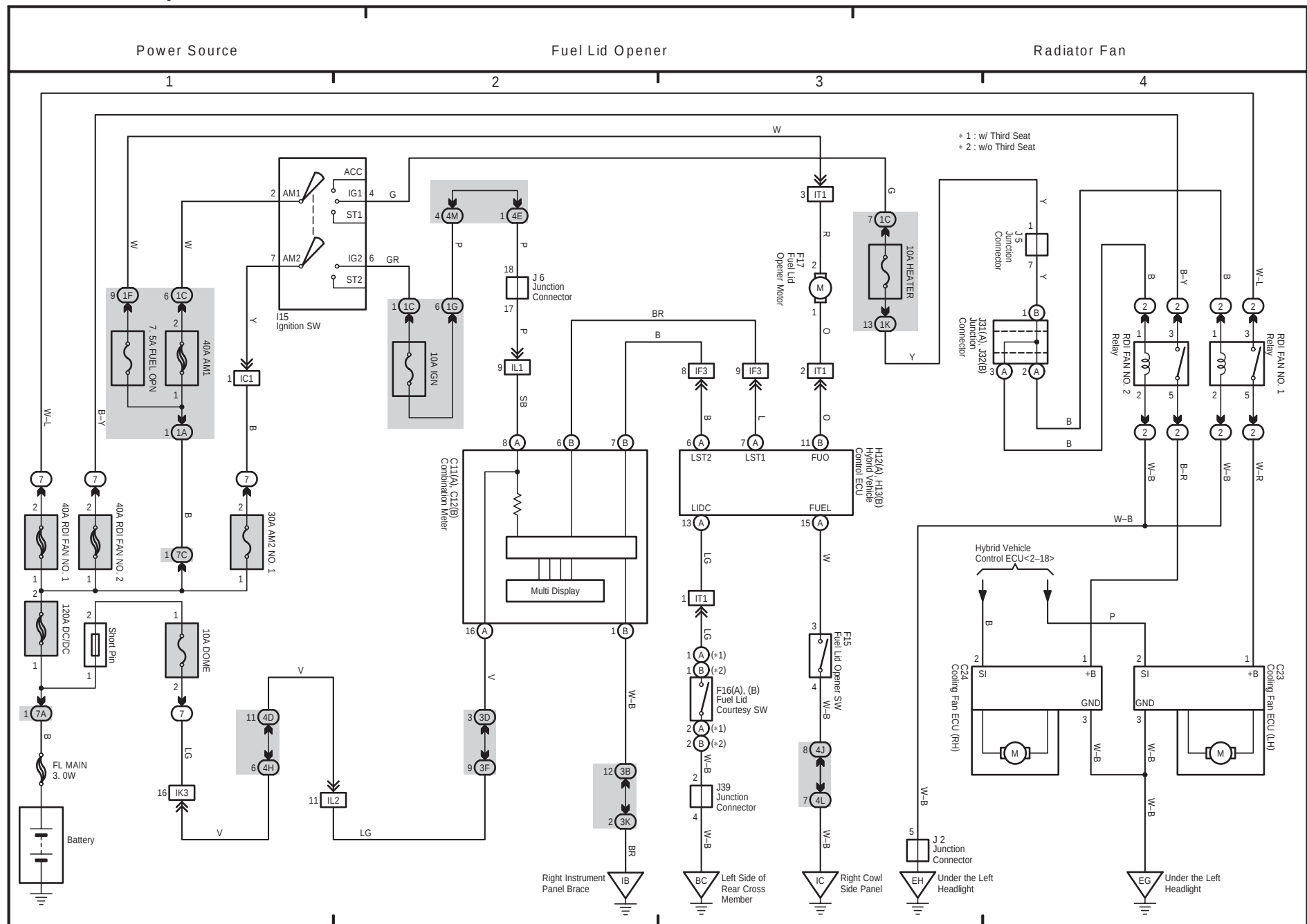
* 4 : Shielded

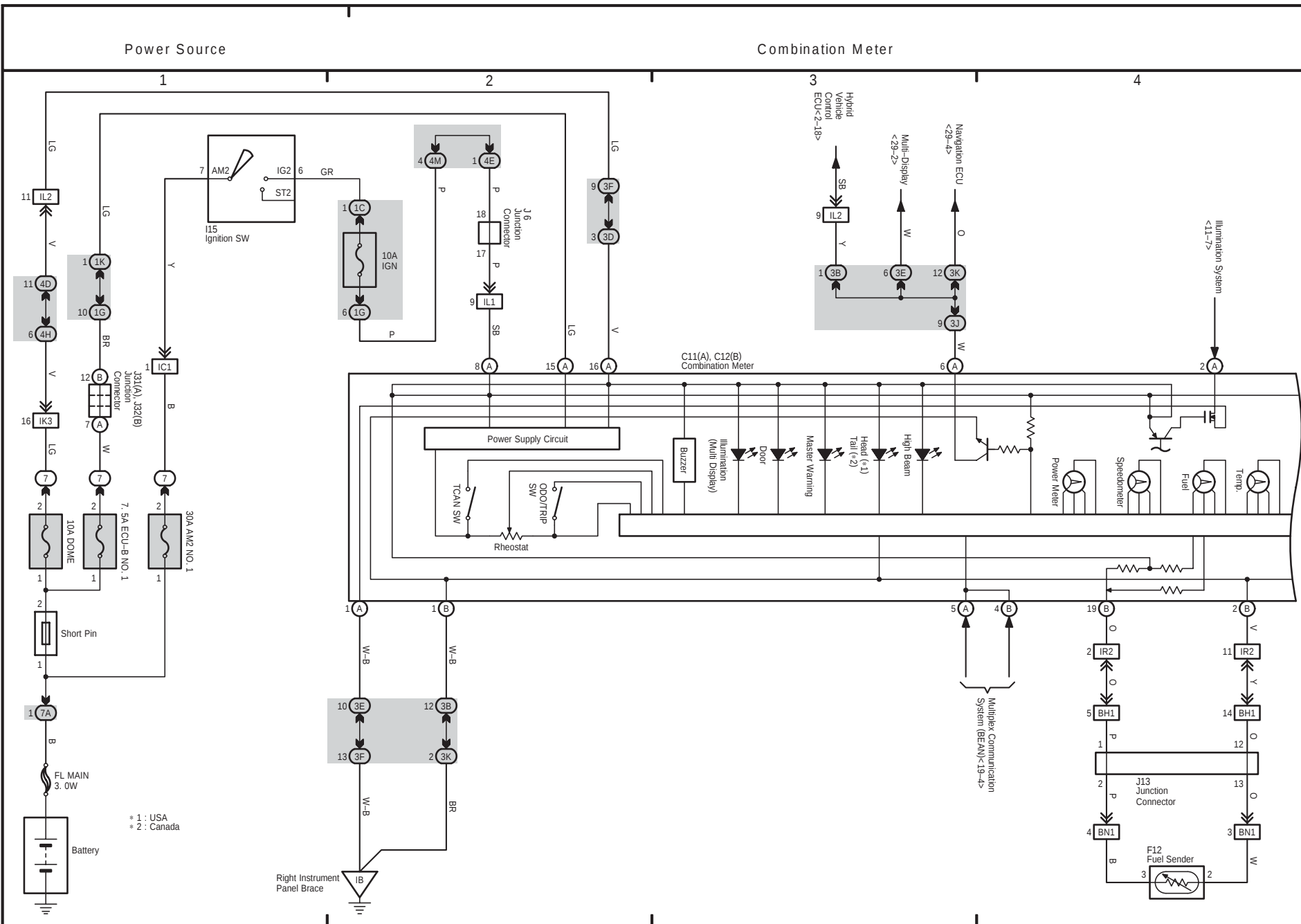


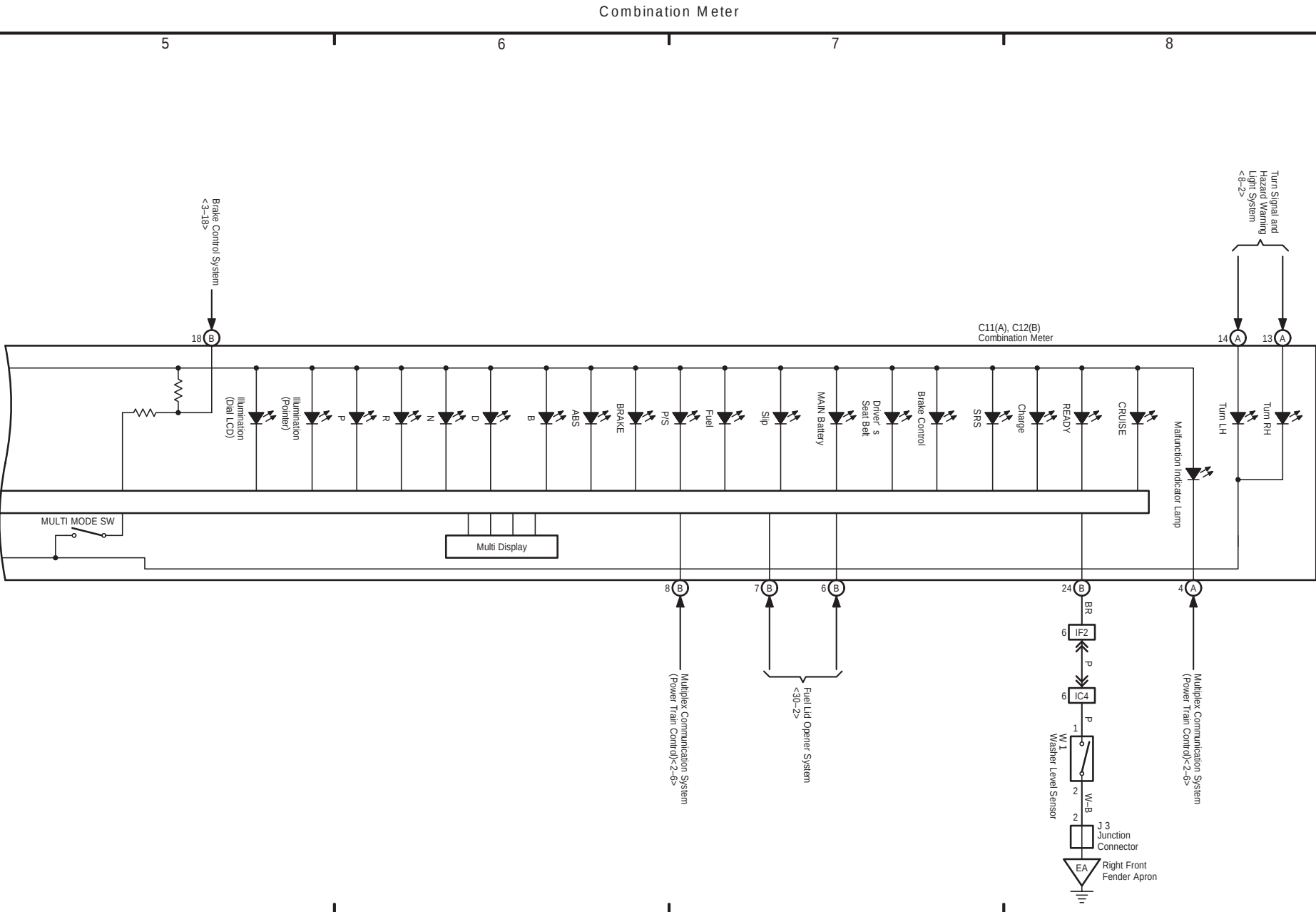
M OVERALL ELECTRICAL WIRING DIAGRAM

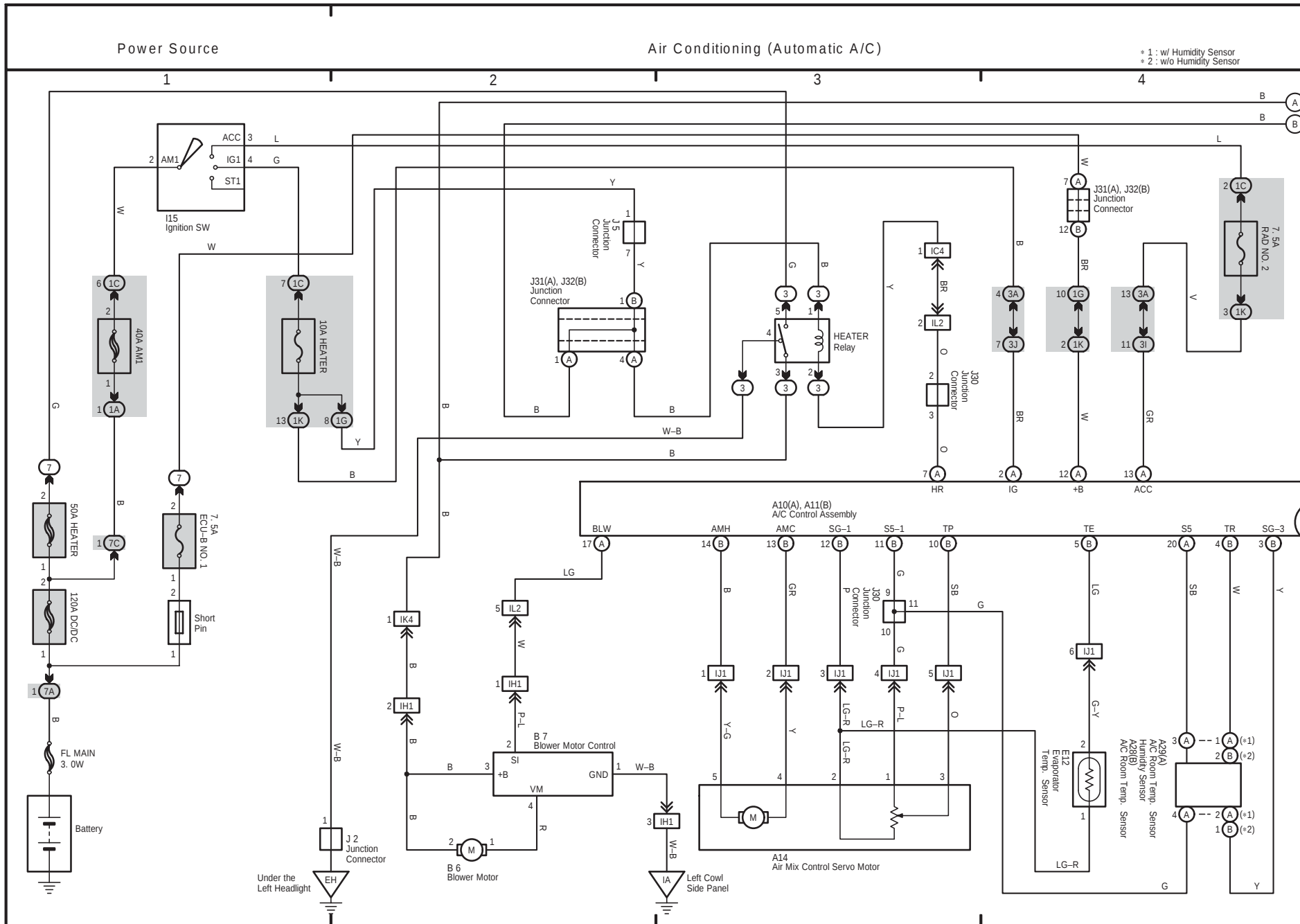
29 HIGHLANDER Hybrid Vehicle



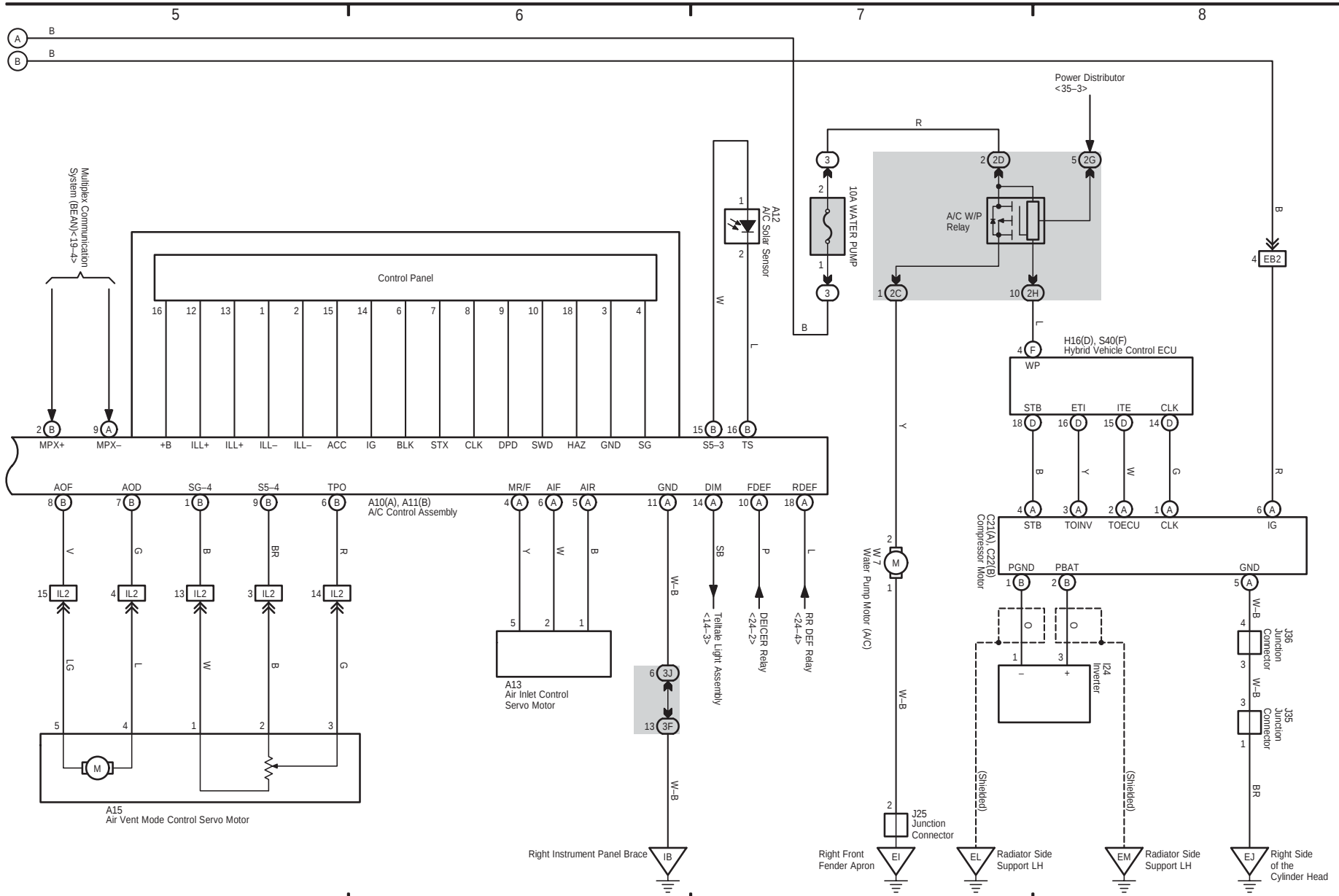


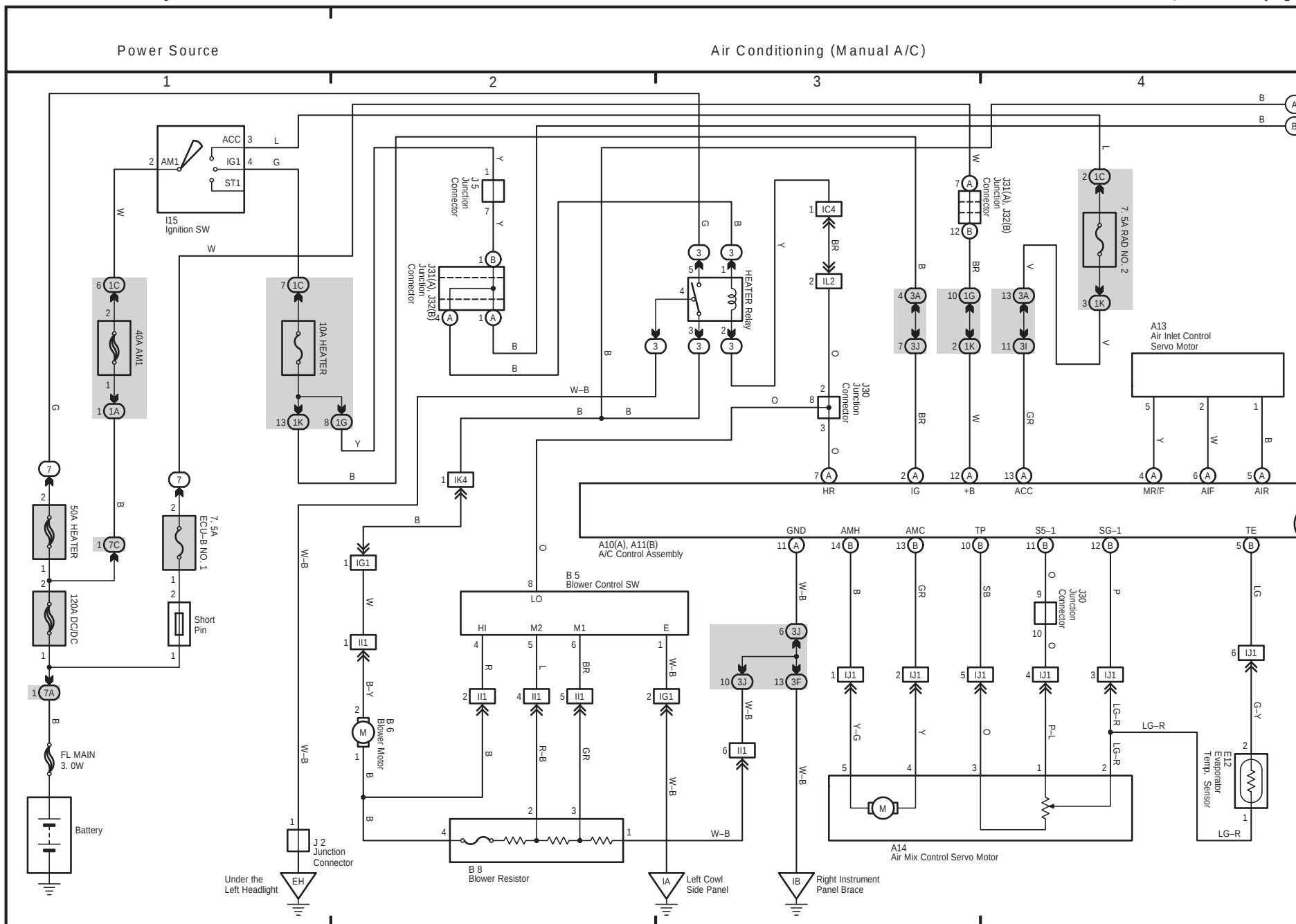




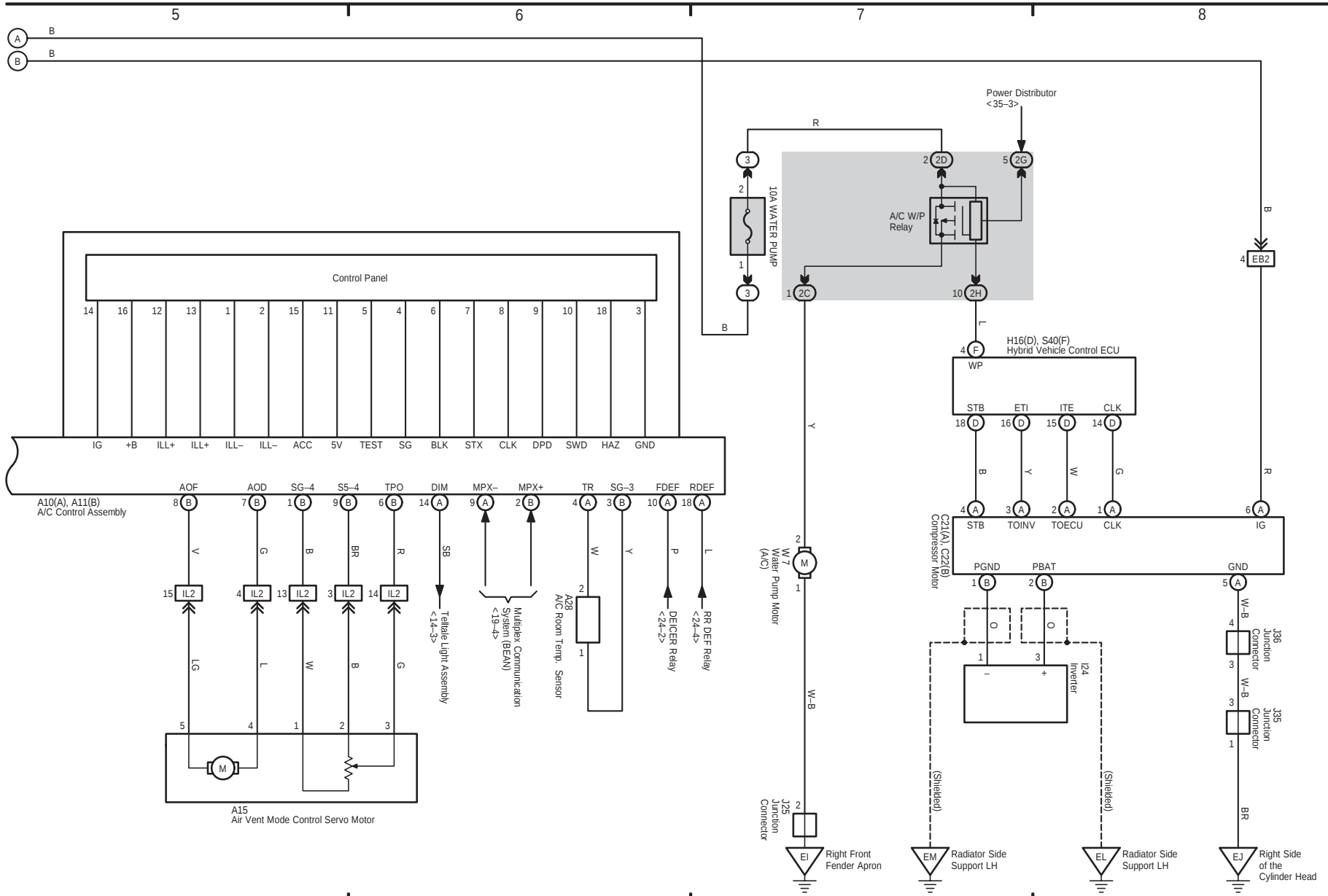


Air Conditioning (Automatic A/C)

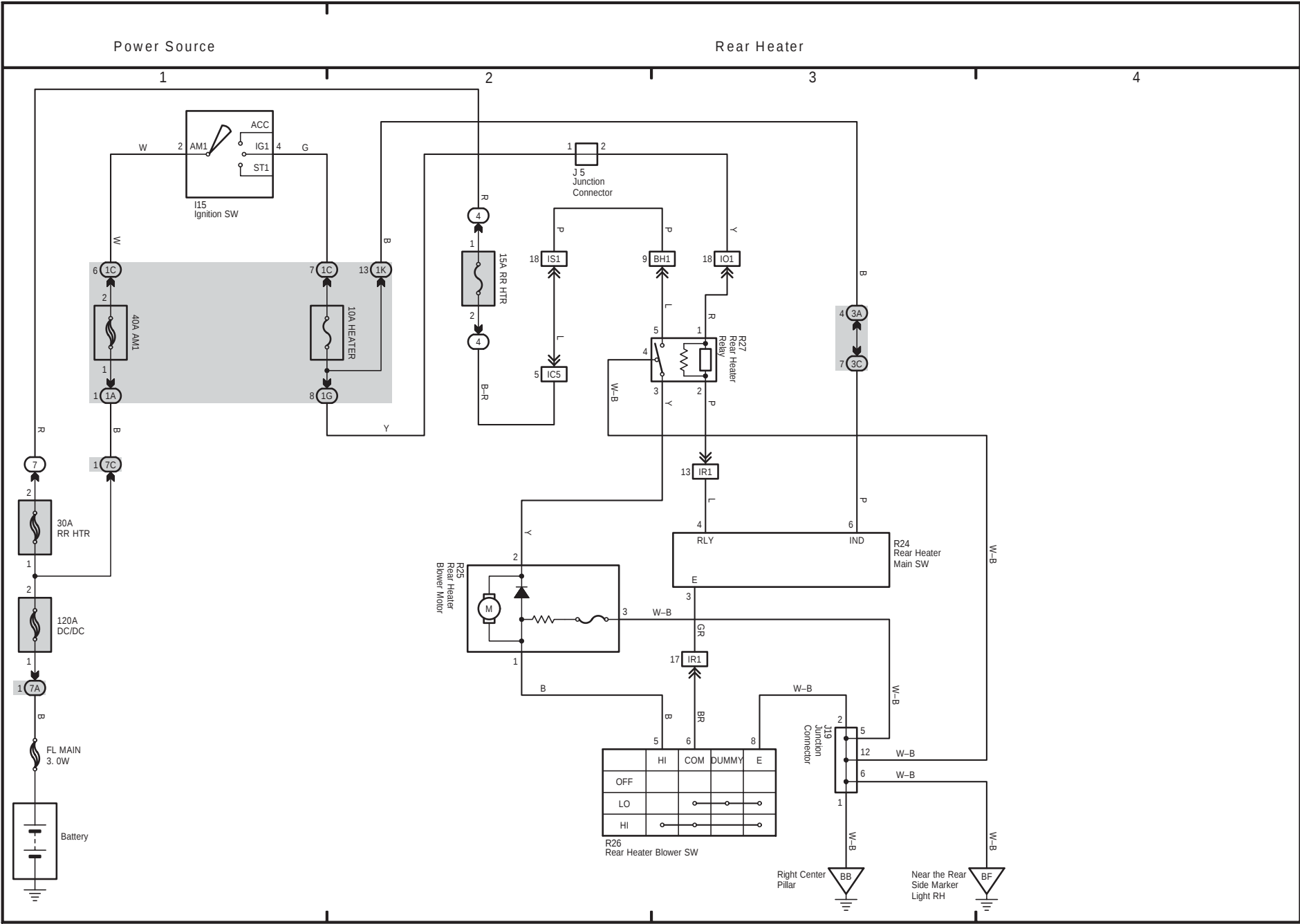




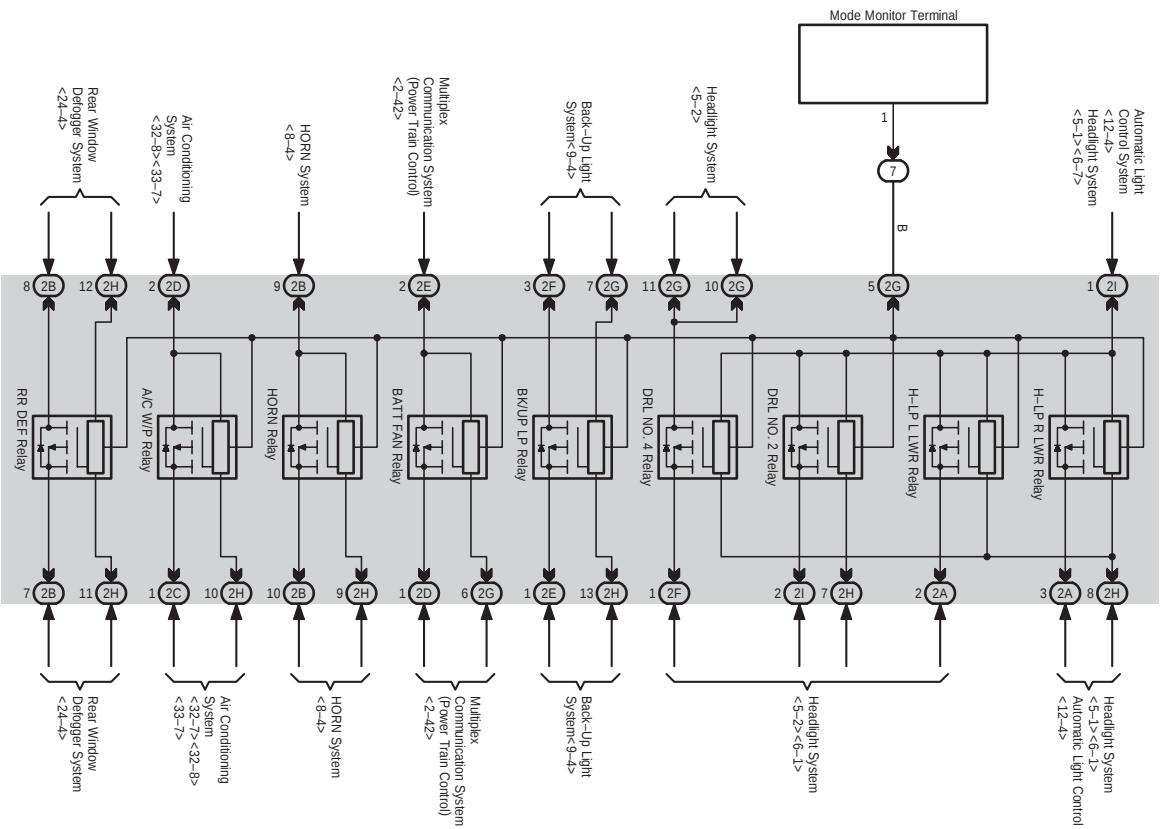
Air Conditioning (Manual A/C)



34 HIGHLANDER Hybrid Vehicle



35 HIGHLANDER Hybrid Vehicle



2006 HIGHLANDER HYBRID VEHICLE ELECTRICAL WIRING DIAGRAM SYSTEM CIRCUITS

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