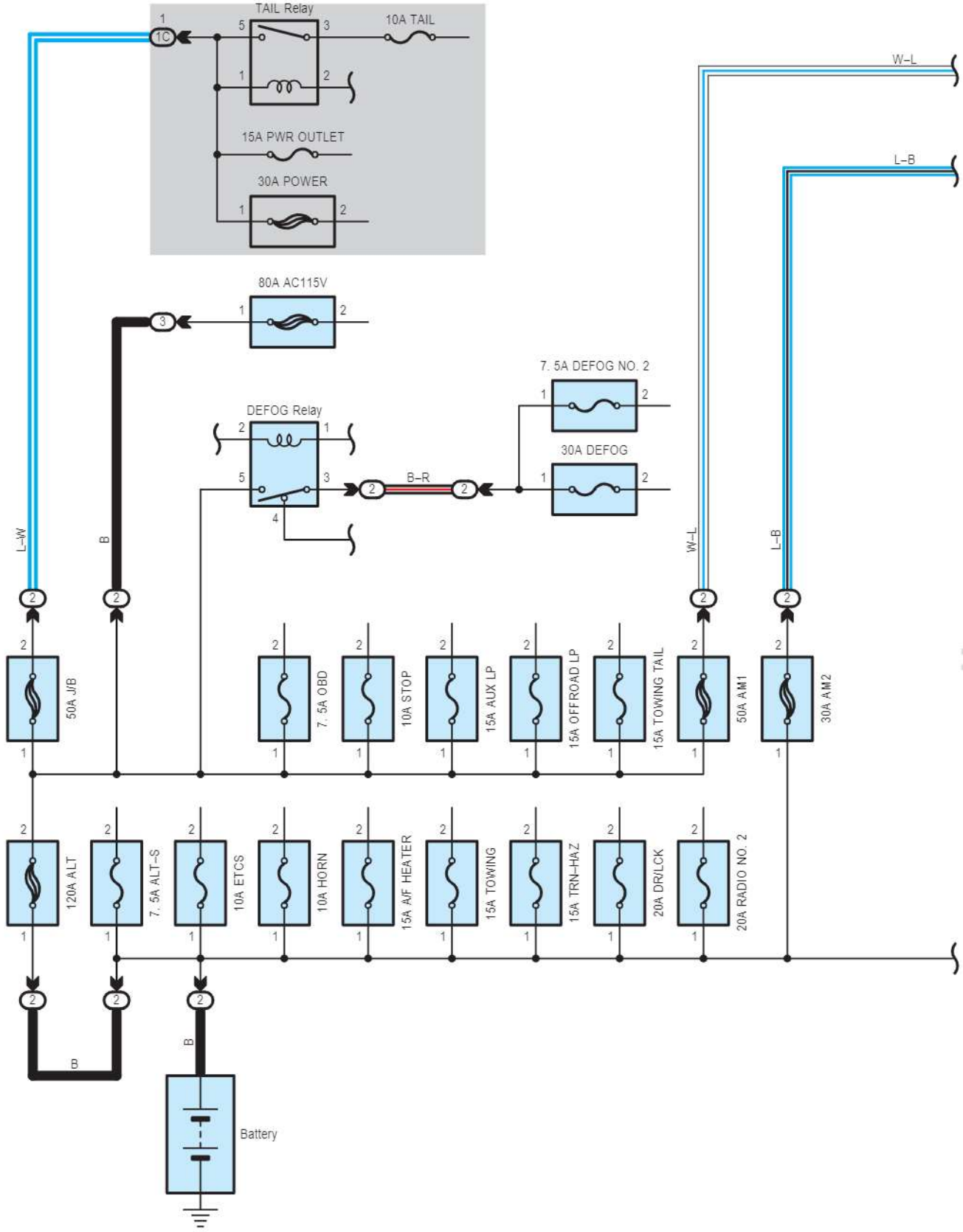
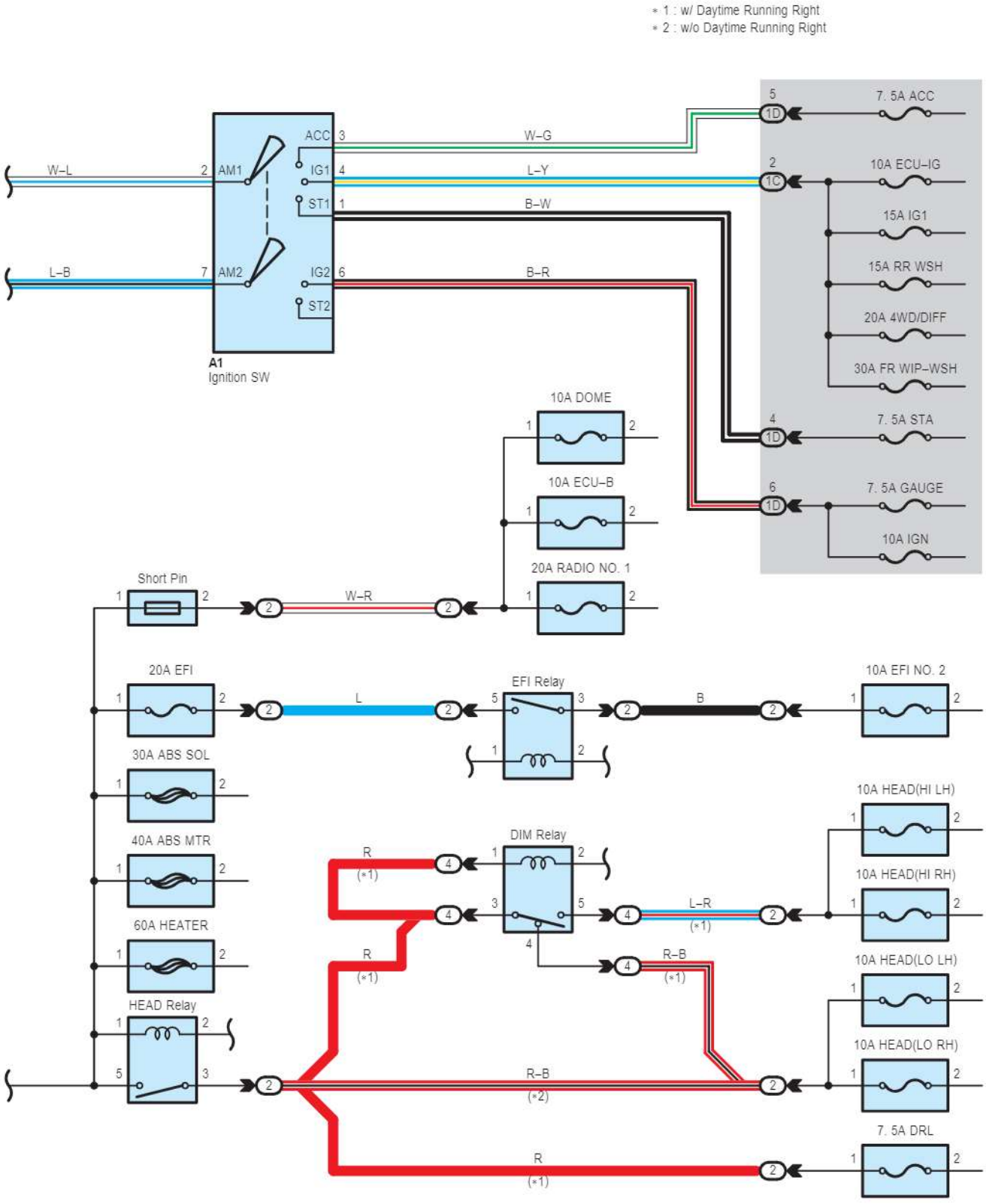
2007 FJ CRUISER ELECTRICAL WIRING DIAGRAM SYSTEM CIRCUITS

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Power Source

○ : **Parts Location**

Code	See Page	Code	See Page	Code	See Page
A1	45				

▭ : **Relay Blocks**

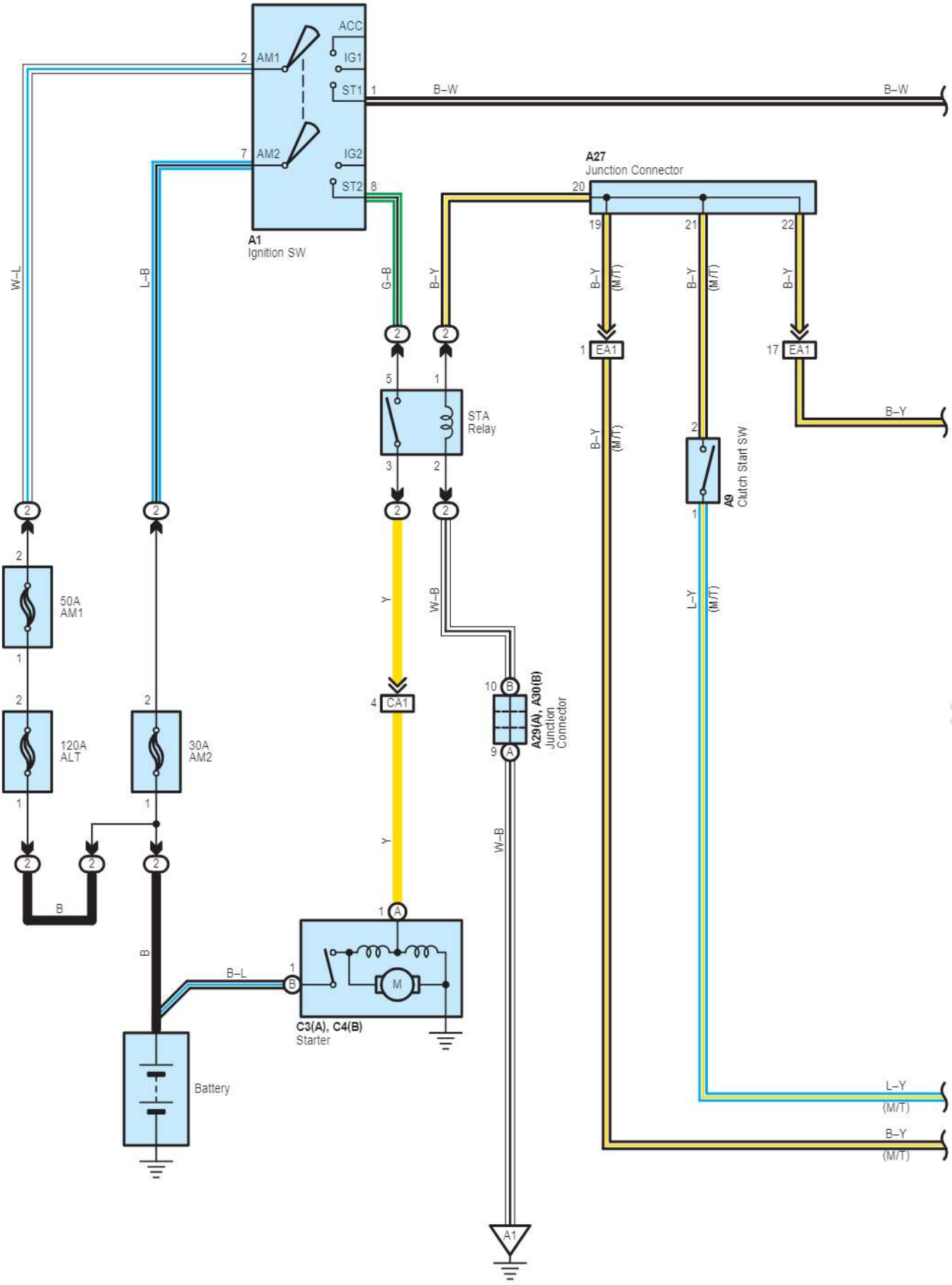
Code	See Page	Relay Blocks (Relay Block Location)
2	22	Engine Room R/B No.2 (Engine Compartment Left)
3	23	Engine Room R/B No.3 (Engine Compartment Left)
4	23	Engine Room R/B No.4 (Engine Compartment Left)

▭ : **Junction Block and Wire Harness Connector**

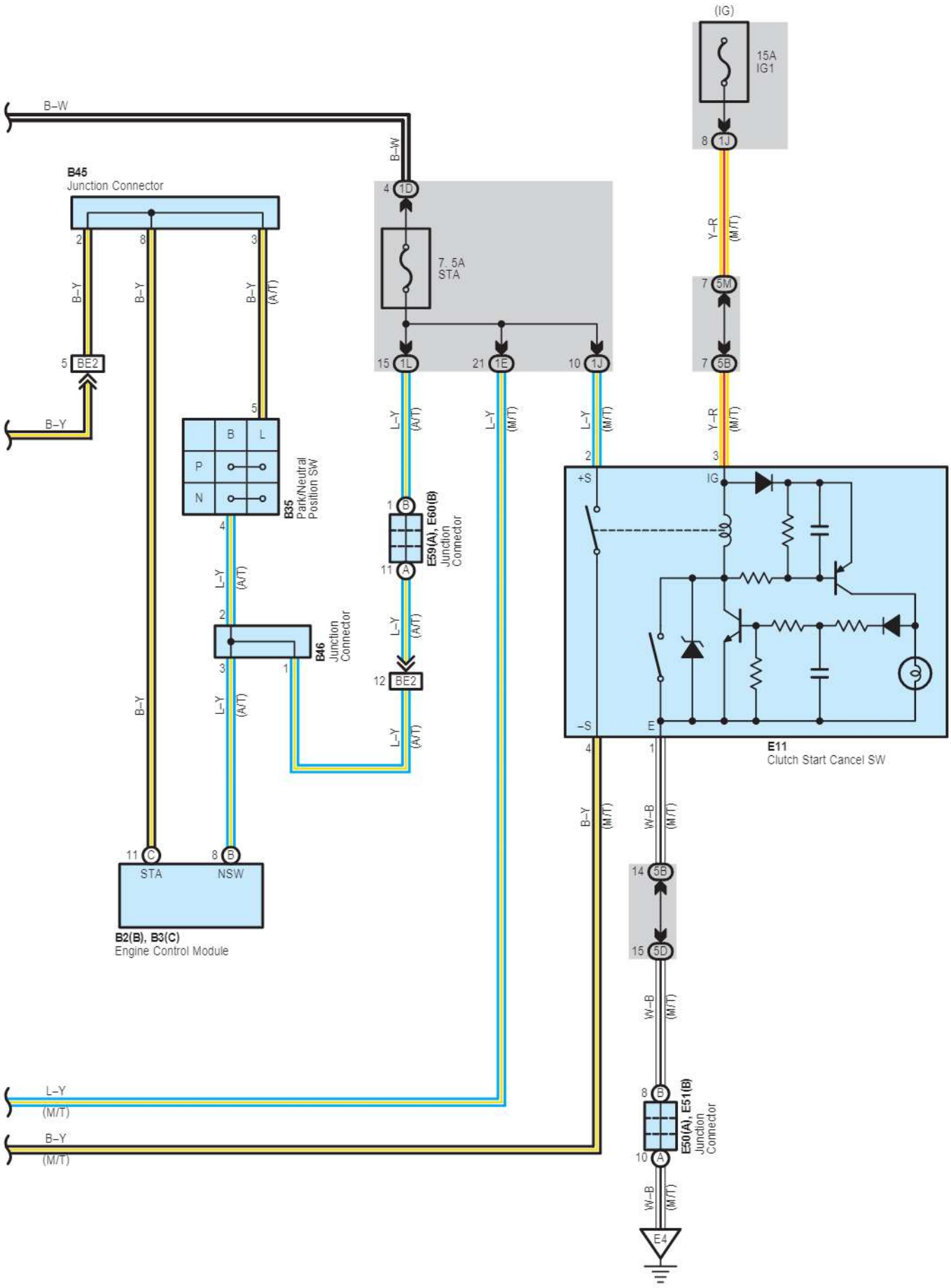
Code	See Page	Junction Block and Wire Harness (Connector Location)
1C	24	Engine Room Main Wire and Driver Side J/B (Lower Finish Panel)
1D		

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○ : Parts Location

Code	See Page	Code	See Page	Code	See Page
A1	45	B3 C	45	E11	42
A9	45	B35	40	E50 A	44
A27	45	B45	45	E51 B	44
A29 A	38	B46	45	E59 A	44
A30 B	38	C3 A	41	E60 B	44
B2 B	45	C4 B	41		

⬭ : Relay Blocks

Code	See Page	Relay Blocks (Relay Block Location)
2	22	Engine Room R/B No.2 (Engine Compartment Left)

⬭ : Junction Block and Wire Harness Connector

Code	See Page	Junction Block and Wire Harness (Connector Location)
1D	24	Engine Room Main Wire and Driver Side J/B (Lower Finish Panel)
1E		
1J	25	Instrument Panel Wire and Driver Side J/B (Lower Finish Panel)
1L		
5B	28	Instrument Panel Wire and Center J/B LH (Instrument Panel LH)
5D		
5M		

▭ : Connector Joining Wire Harness and Wire Harness

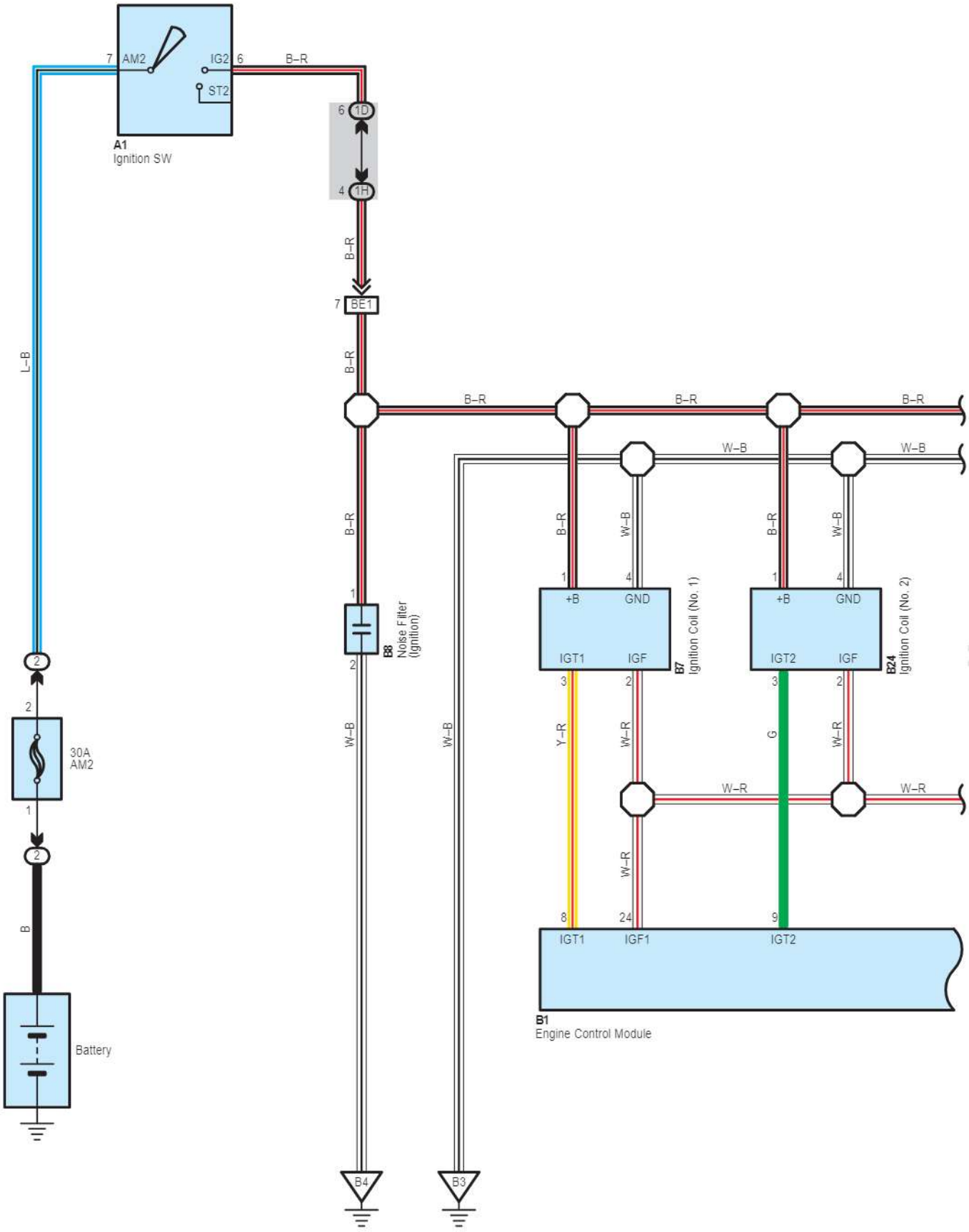
Code	See Page	Joining Wire Harness and Wire Harness (Connector Location)
BE2	51	Engine Wire and Instrument Panel Wire (Upper the Glove Box)
CA1	50	Engine No.2 Wire and Engine Room Main Wire (Near the Engine Room R/B No.2)
EA1	51	Instrument Panel Wire and Engine Room Main Wire (Left Kick Panel)

▽ : Ground Points

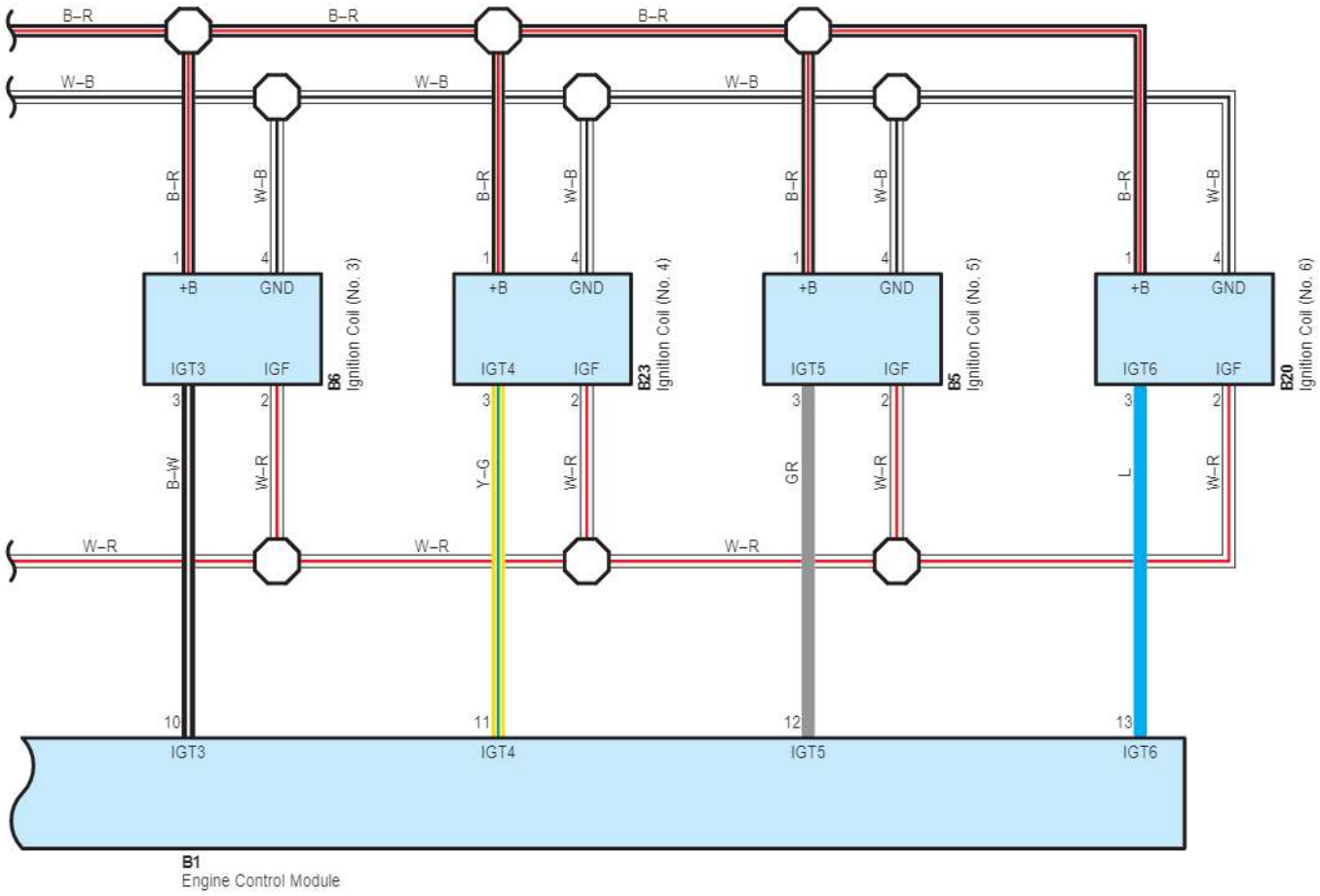
Code	See Page	Ground Points Location
A1	50	Left Fender Apron
E4	51	Left Kick Panel

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○ : **Parts Location**

Code	See Page	Code	See Page	Code	See Page
A1	45	B6	39	B20	39
B1	45	B7	39	B23	39
B5	39	B8	39	B24	39

⬭ : **Relay Blocks**

Code	See Page	Relay Blocks (Relay Block Location)
2	22	Engine Room R/B No.2 (Engine Compartment Left)

⬭ : **Junction Block and Wire Harness Connector**

Code	See Page	Junction Block and Wire Harness (Connector Location)
1D	24	Engine Room Main Wire and Driver Side J/B (Lower Finish Panel)
1H	25	Instrument Panel Wire and Driver Side J/B (Lower Finish Panel)

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

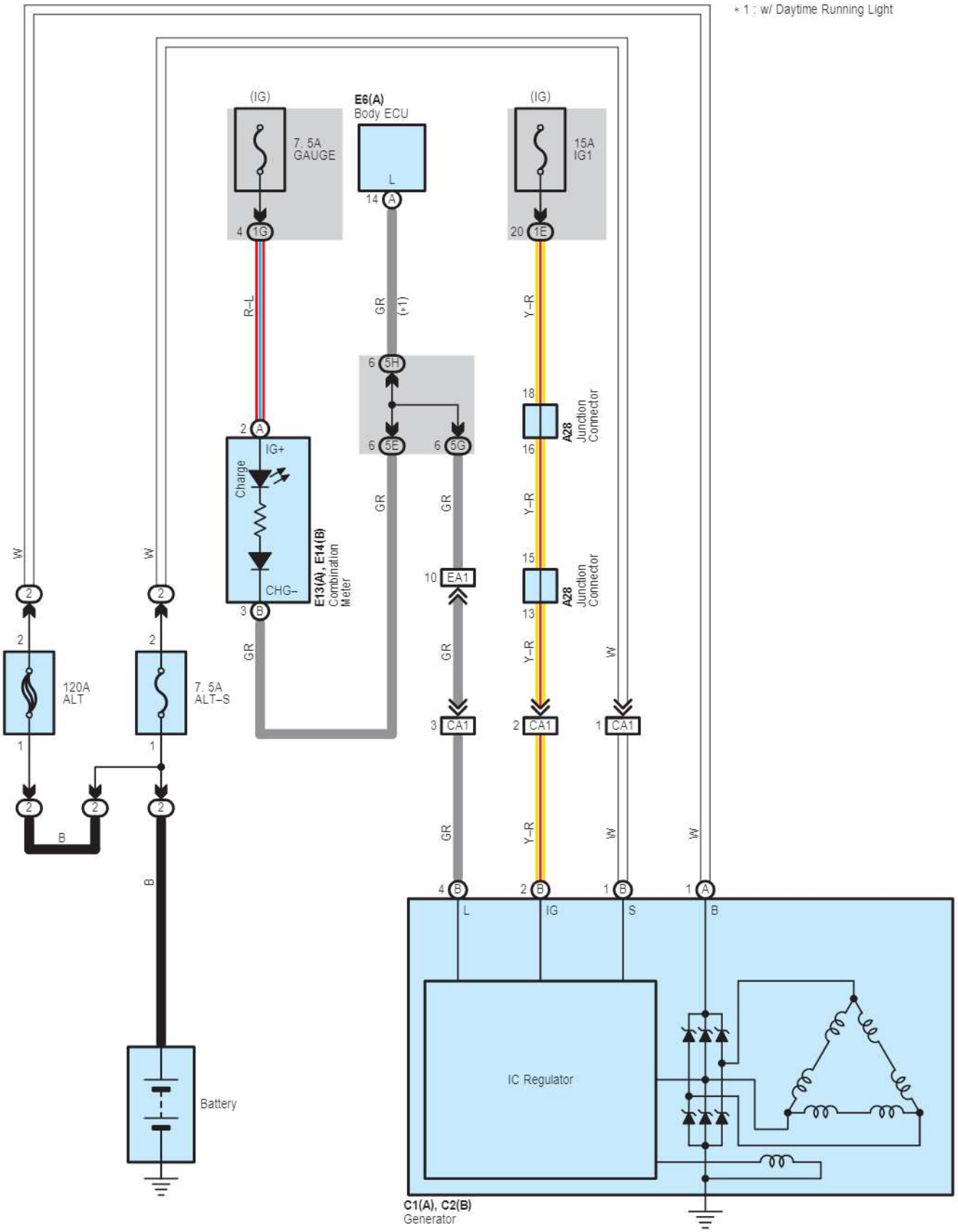
Code	See Page	Joining Wire Harness and Wire Harness (Connector Location)
BE1	51	Engine Wire and Instrument Panel Wire (Upper the Glove Box)

▽ : **Ground Points**

Code	See Page	Ground Points Location
B3	50	Rear Side of Left Bank Cylinder Block
B4		

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: Parts Location

Code		See Page	Code		See Page	Code		See Page
A28		38	C2	B	41	E13	A	42
C1	A	41	E6	A	42	E14	B	42

: Relay Blocks

Code	See Page	Relay Blocks (Relay Block Location)
2	22	Engine Room R/B No.2 (Engine Compartment Left)

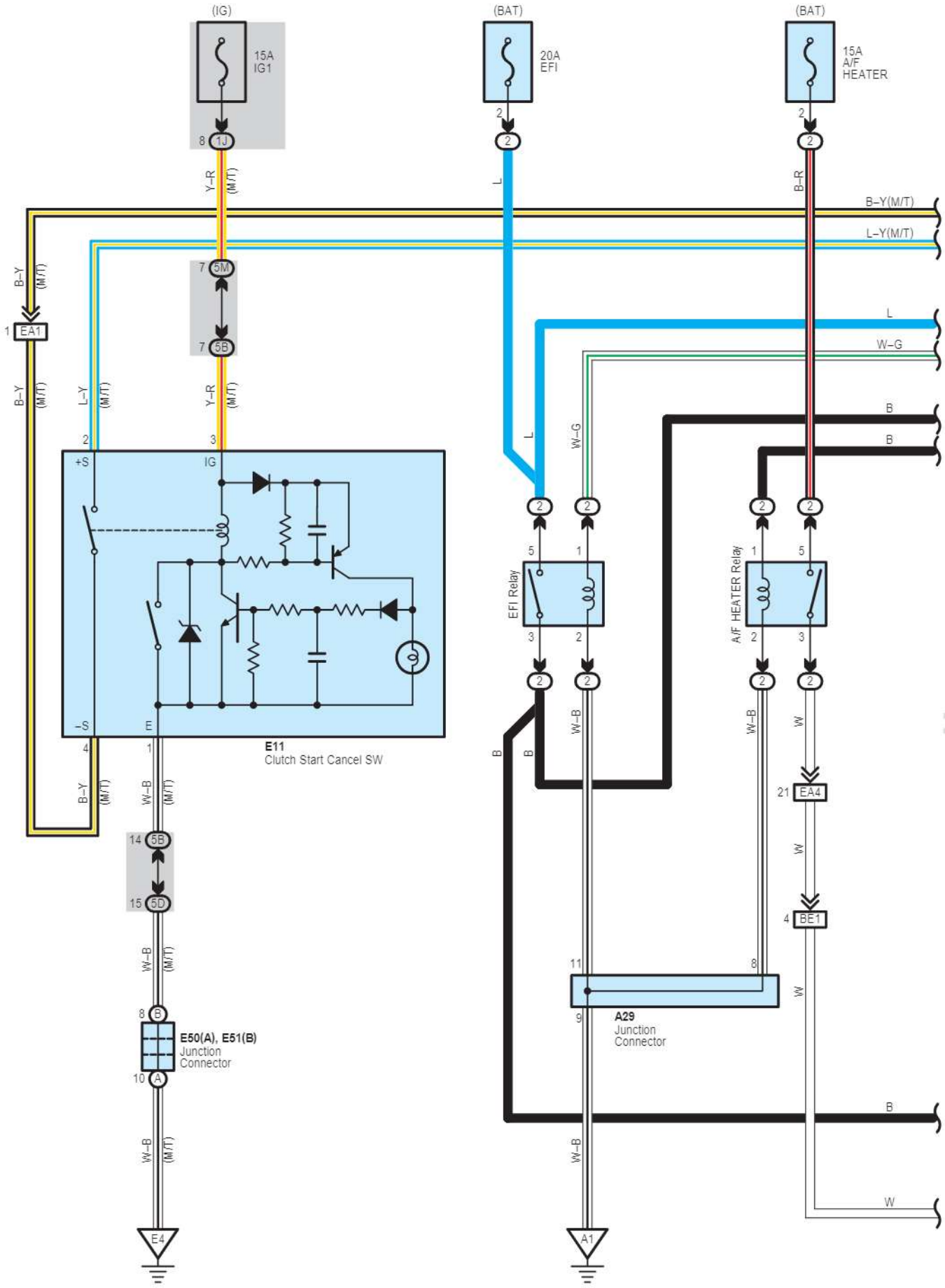
: Junction Block and Wire Harness Connector

Code	See Page	Junction Block and Wire Harness (Connector Location)
1E	24	Engine Room Main Wire and Driver Side J/B (Lower Finish Panel)
1G	25	Instrument Panel Wire and Driver Side J/B (Lower Finish Panel)
5E	28	Instrument Panel Wire and Center J/B LH (Instrument Panel LH)
5G		
5H		

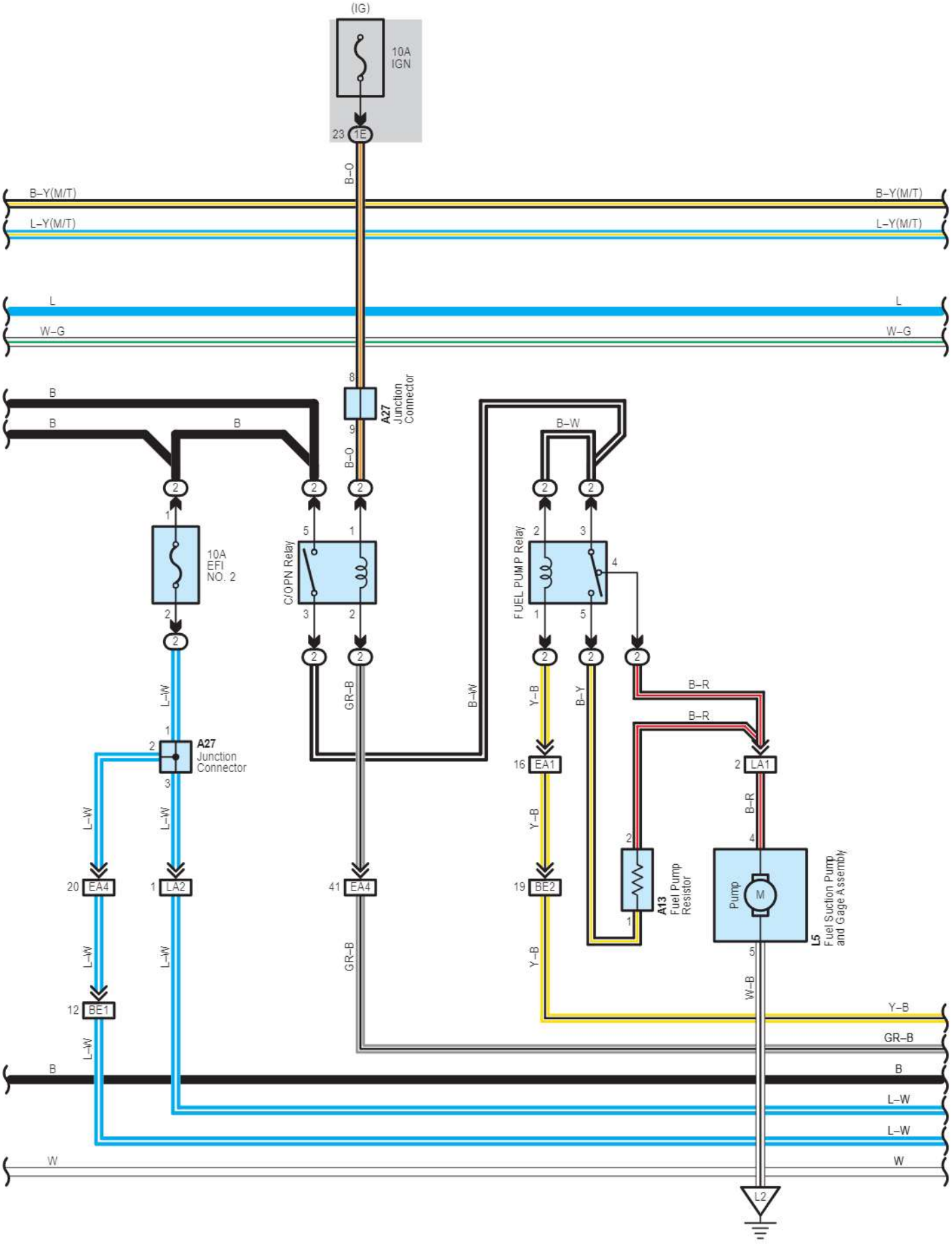
: Connector Joining Wire Harness and Wire Harness

Code	See Page	Joining Wire Harness and Wire Harness (Connector Location)
CA1	50	Engine No.2 Wire and Engine Room Main Wire (Near the Engine Room R/B No.2)
EA1	51	Instrument Panel Wire and Engine Room Main Wire (Left Kick Panel)

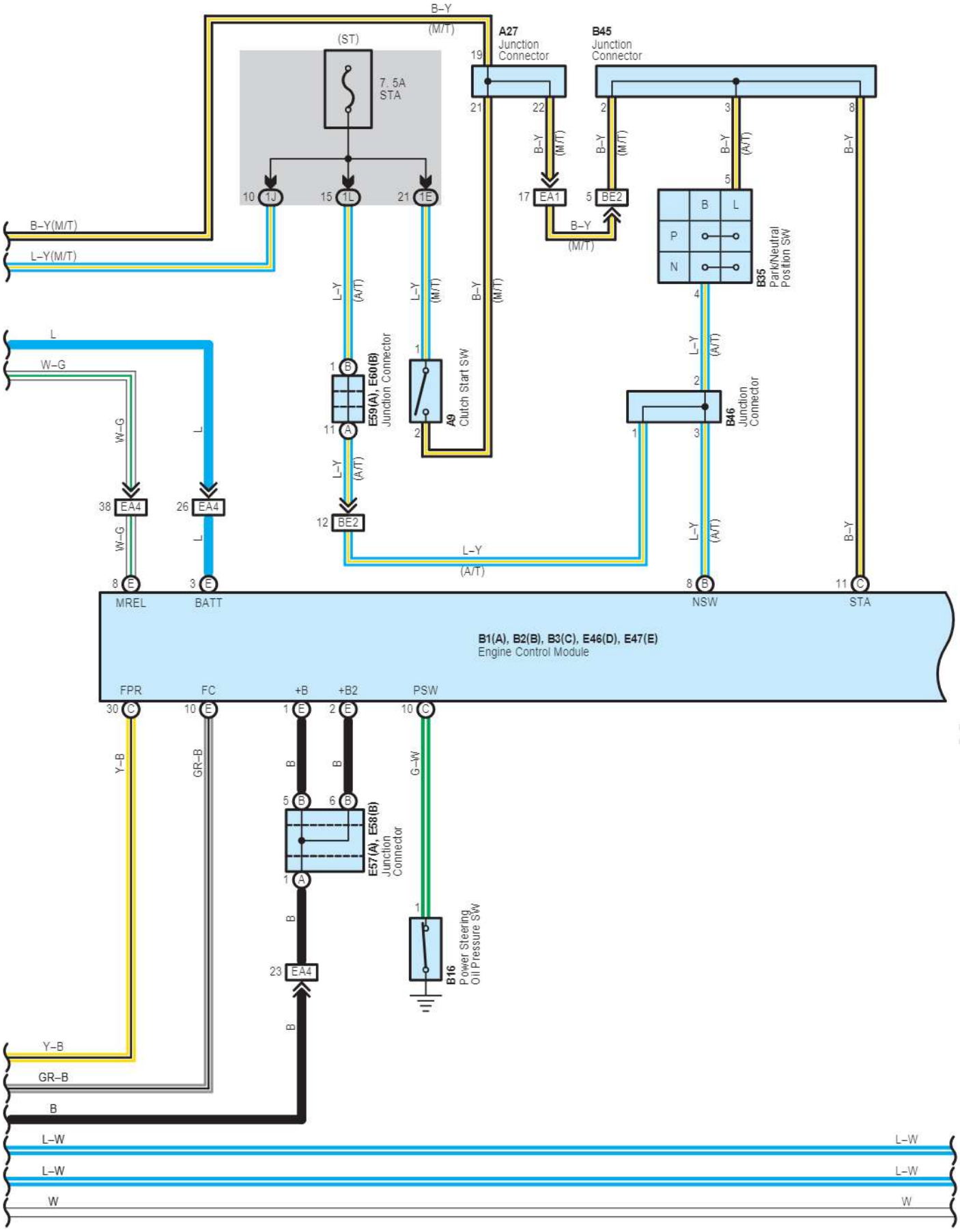
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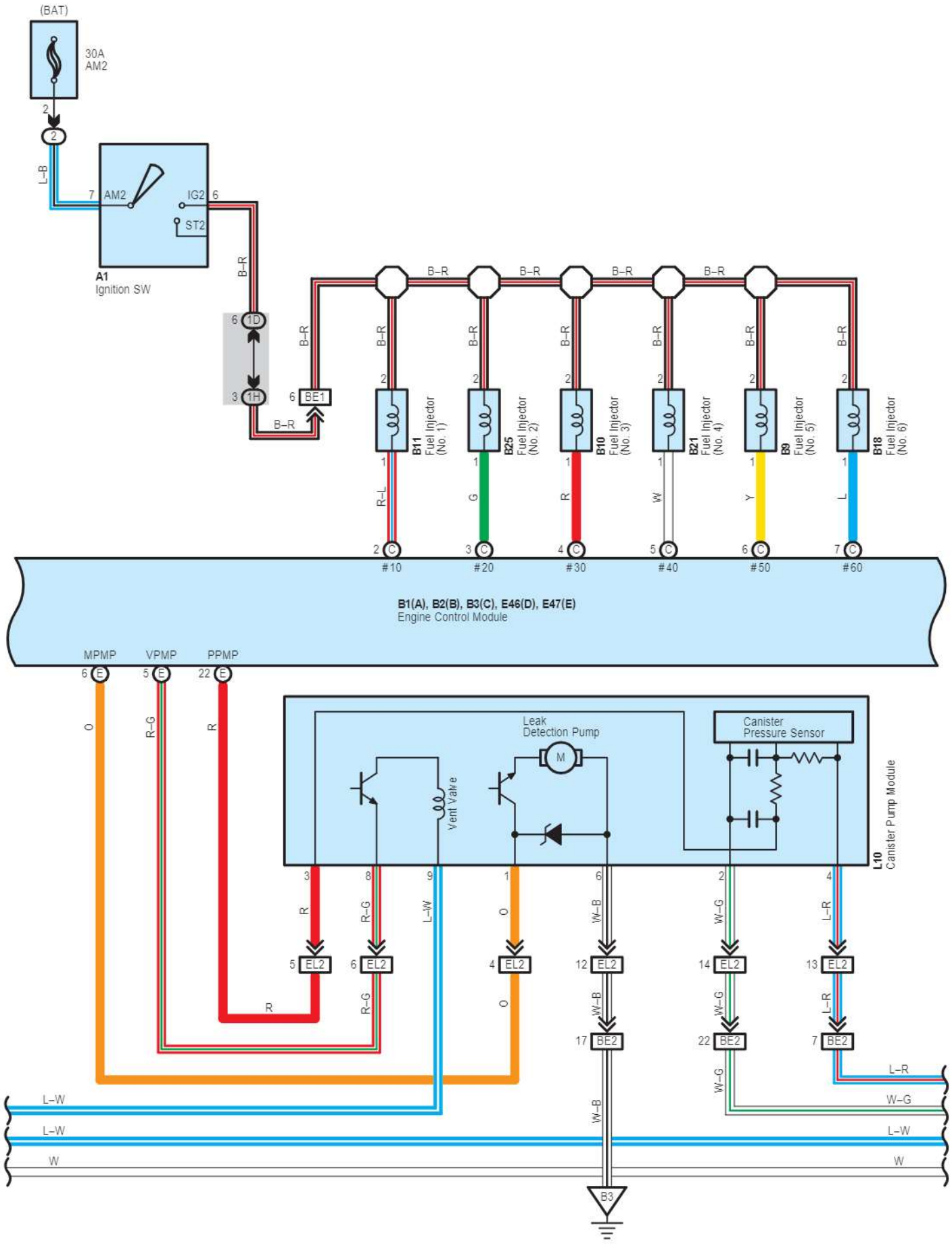
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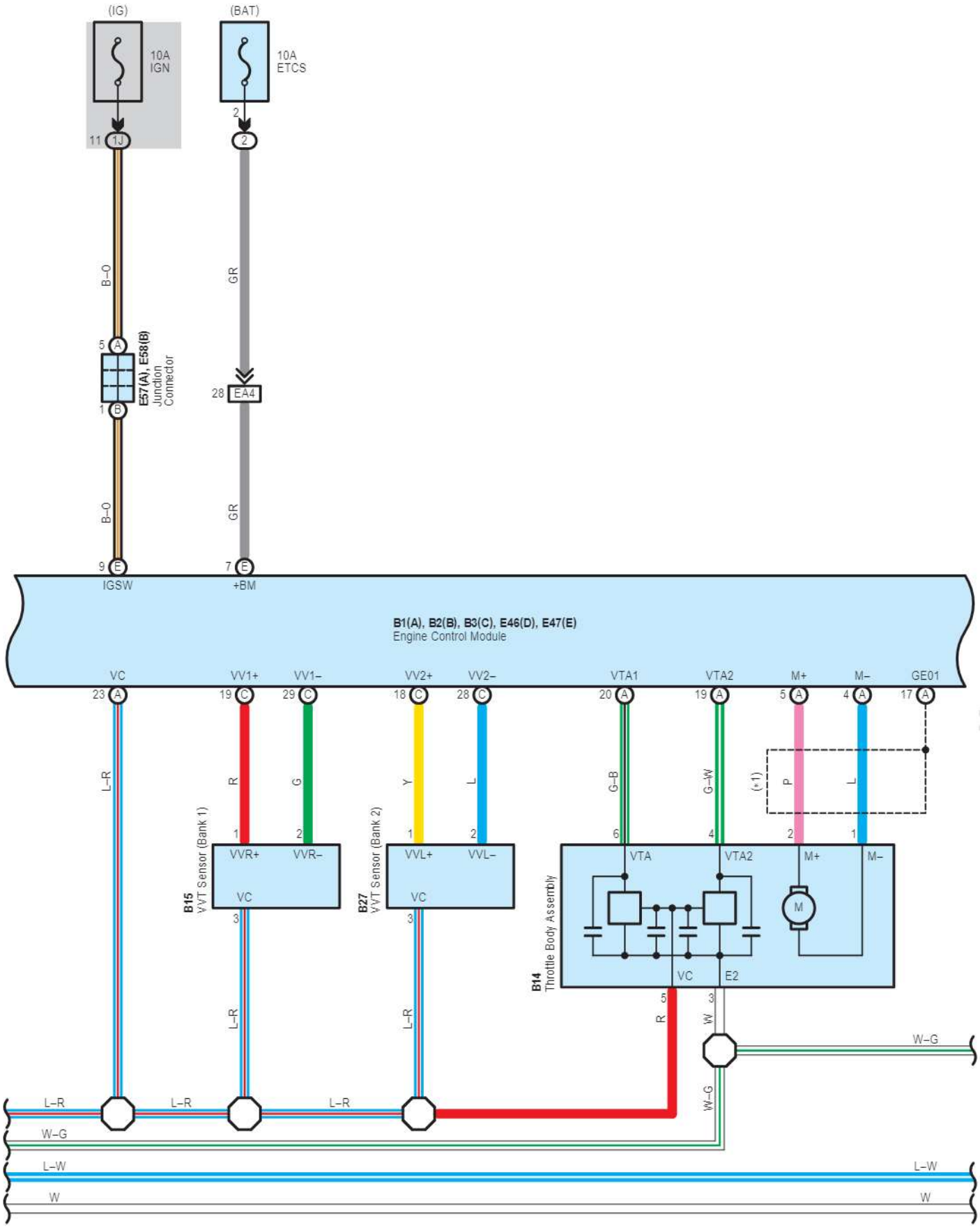
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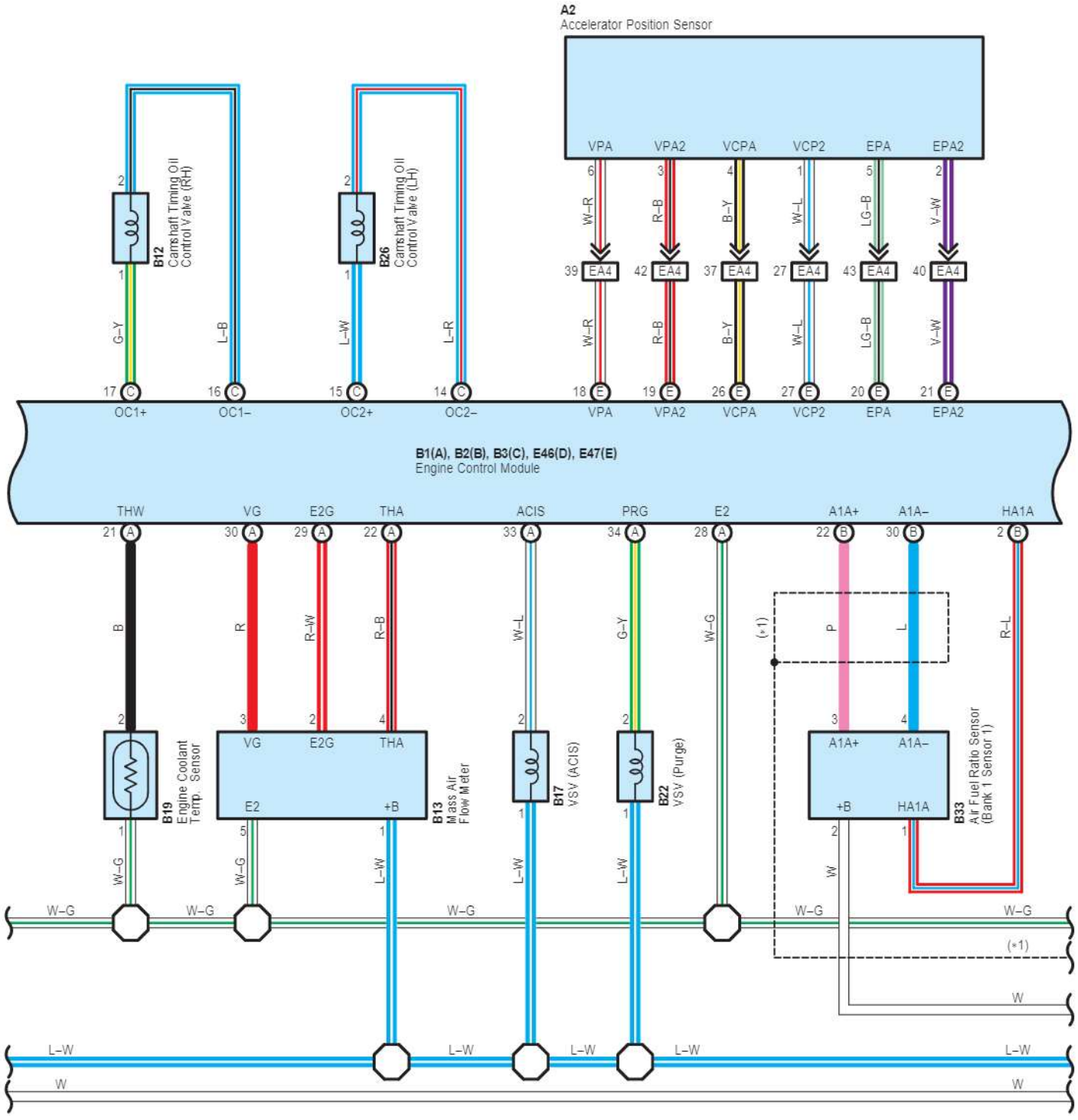


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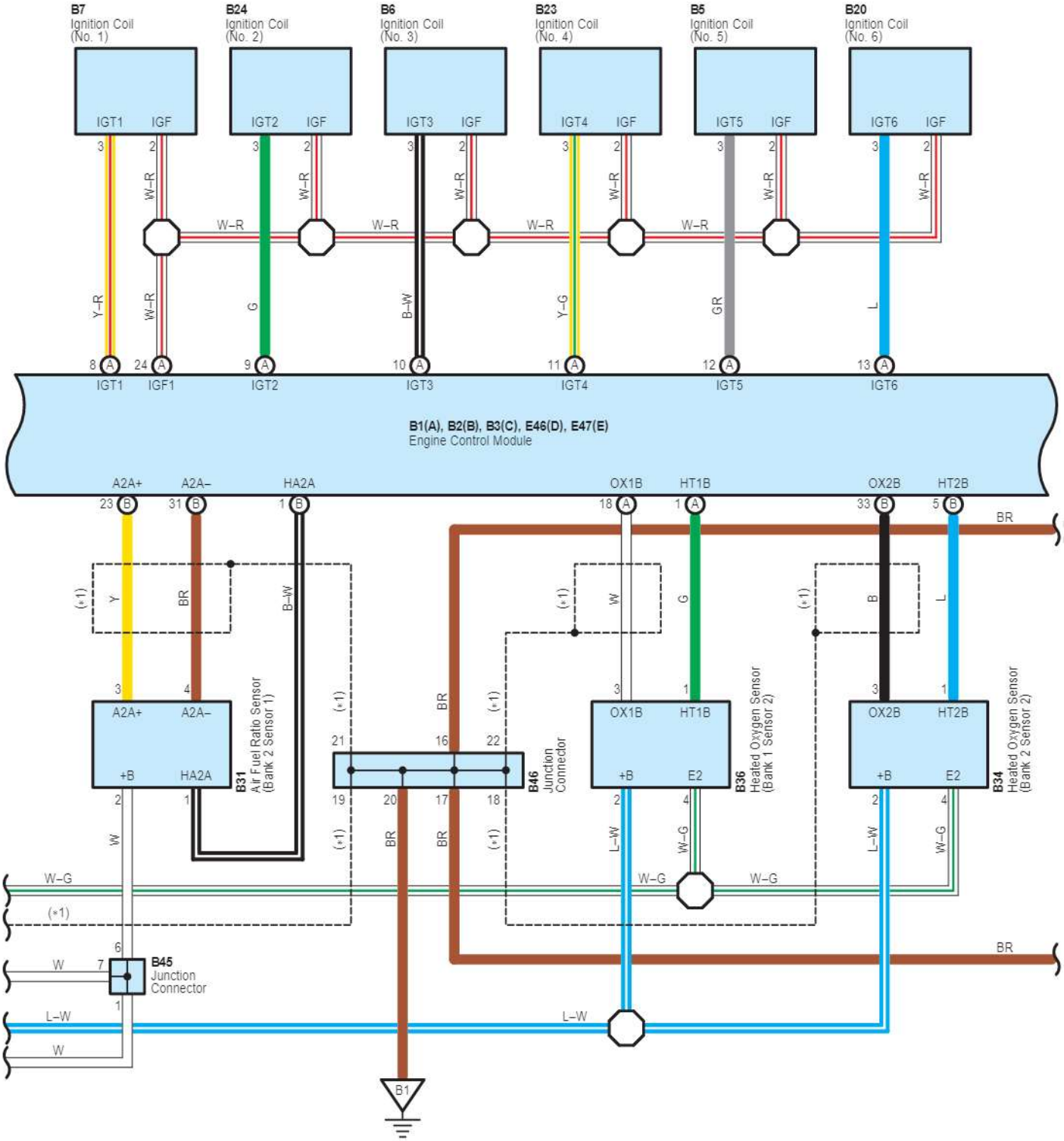


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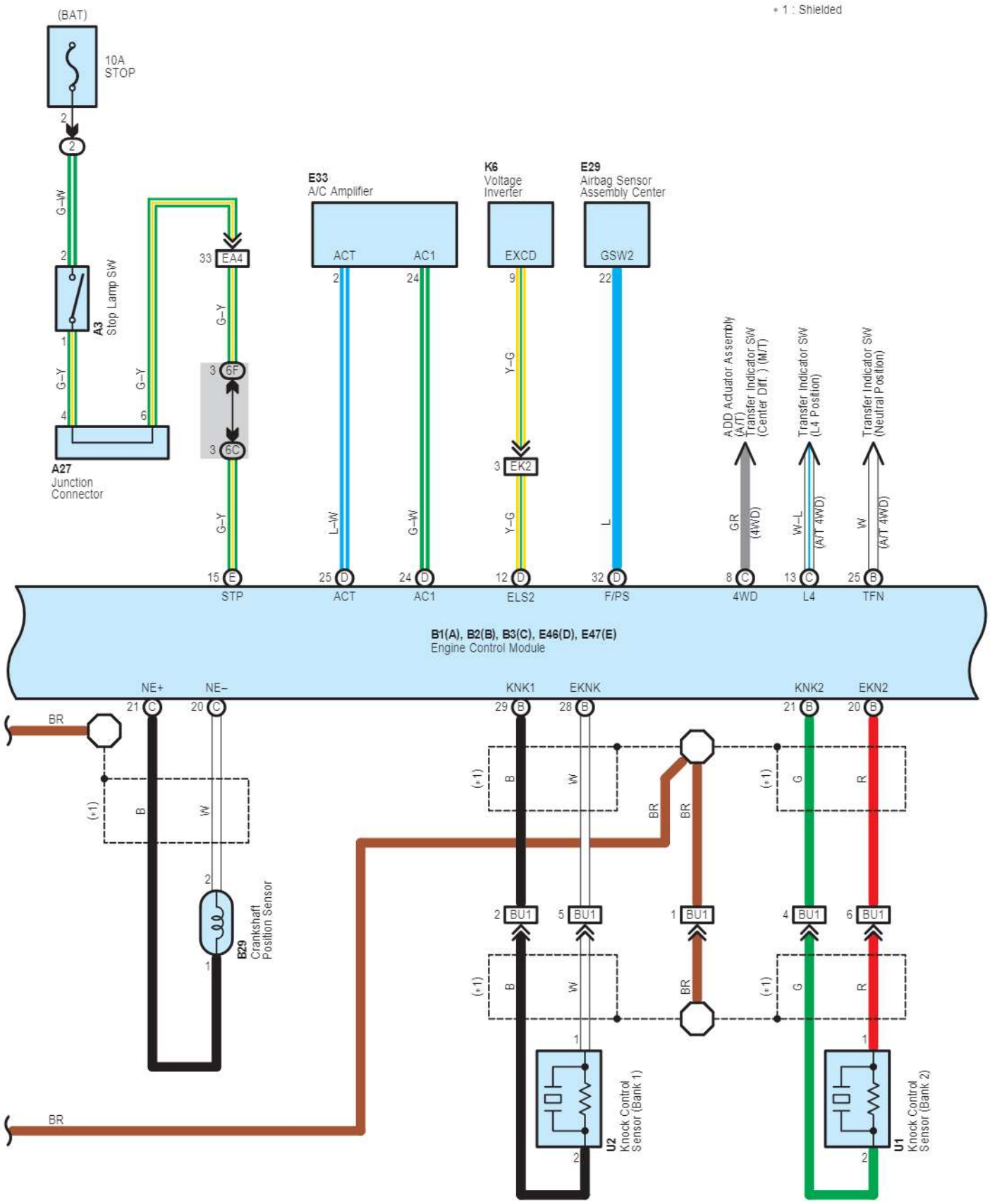
∗1 : Shielded



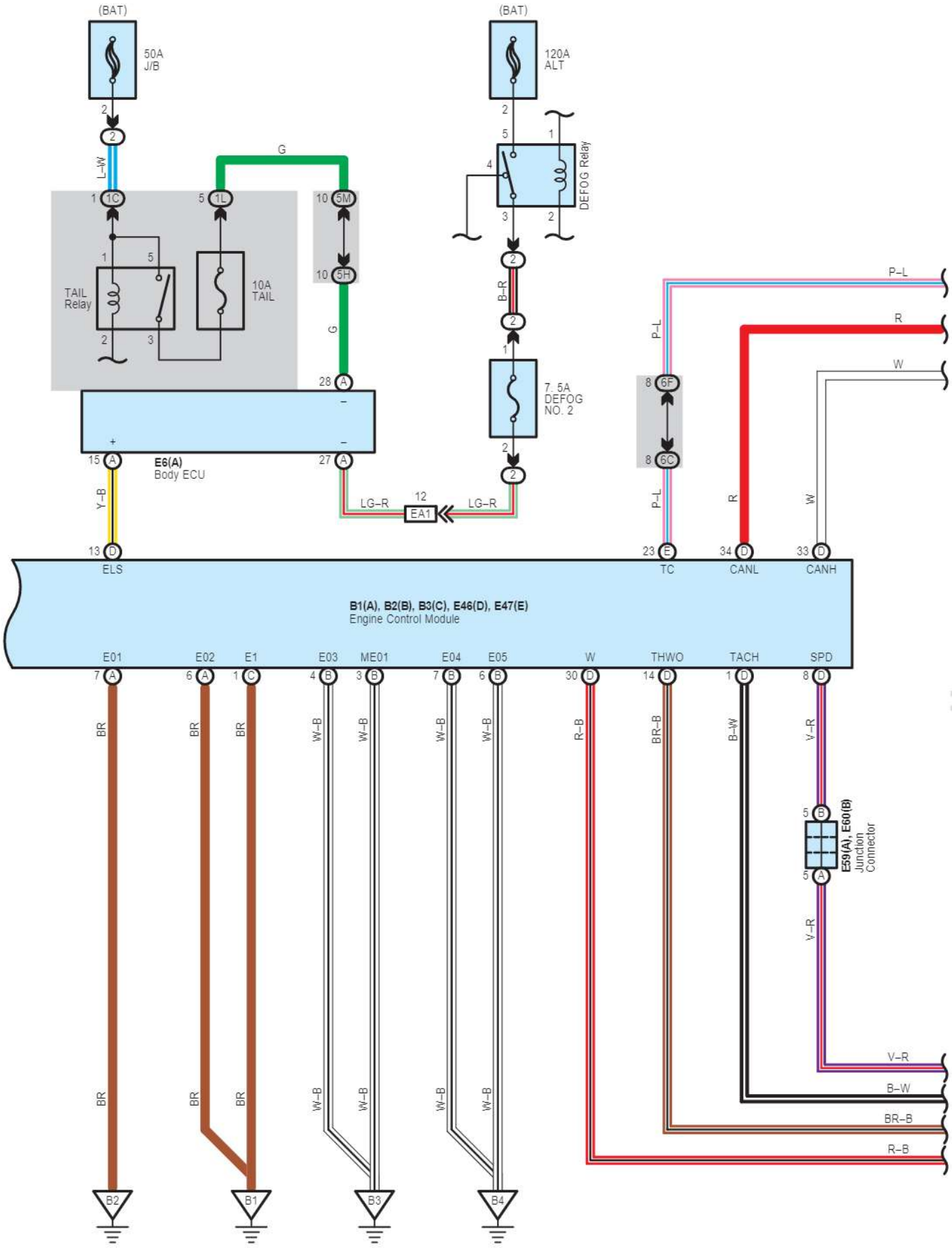
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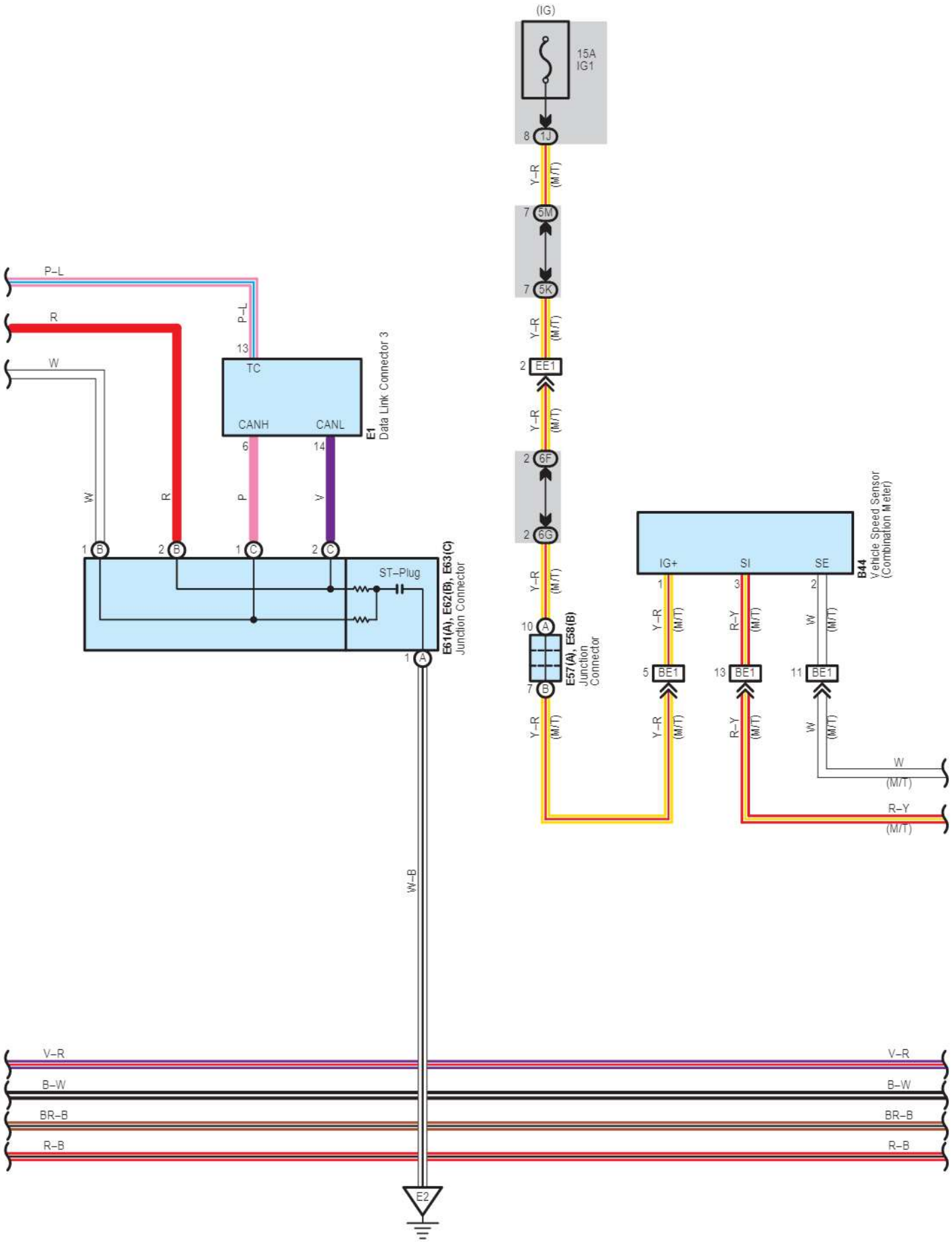
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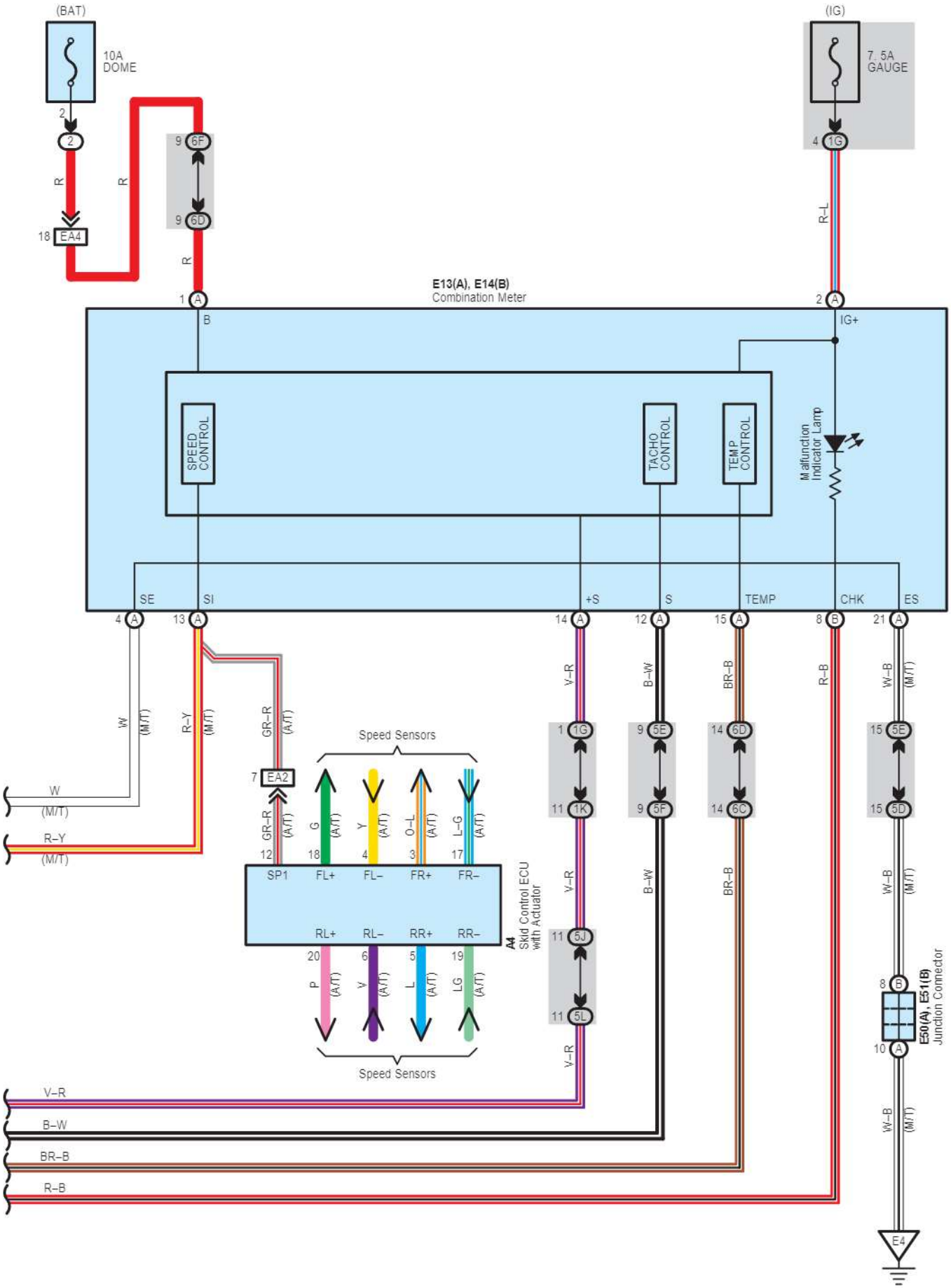
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System Outline

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

1. Input Signals

(1) Engine coolant temp. signal circuit

The engine coolant temp. sensor detects the engine coolant temp. and has a built–in thermistor with a resistance which varies according to the engine coolant temp. The engine coolant temp. is input into TERMINAL THW of the engine control module as a control signal.

(2) Intake air temp. signal circuit

The intake air temp. sensor is installed in the mass air flow meter and detects the intake air temp., which is input as a control signal to TERMINAL THA of the engine control module.

(3) Oxygen sensor signal circuit

The oxygen density in the exhaust emission is detected and is input as a control signal from the heated oxygen sensors to TERMINALS OX1B and OX2B of the engine control module.

(4) RPM signal circuit

The camshaft position is detected by the VVT sensor bank 1 and bank 2, and is input into TERMINALS VV1+ and VV2+ of the engine control module as a control signal. Also, the engine RPM is detected by the crankshaft position sensor and the signal is input into TERMINAL NE+ of the engine control module.

(5) Throttle position sensor signal circuit

The throttle position sensor detects the throttle valve opening angle as a control signal, which is input into TERMINALS VTA1 and VTA2 of the engine control module.

(6) Vehicle speed circuit

The vehicle speed sensor detects the vehicle speed, and the signal is input into TERMINAL SPD of the engine control module via the combination meter, from TERMINAL SP1 of the skid control ECU with actuator. (A/T)

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

(7) Battery signal circuit

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

(8) Intake air volume signal circuit

The intake air volume is detected by the mass air flow meter, and is input as a control signal to TERMINAL VG of the engine control module.

(9) Stop lamp SW signal circuit

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

(10) Starter signal circuit

To confirm whether the engine is cranking, the voltage applied to the starter motor when the engine is cranking is detected, and is input into TERMINAL STA of the engine control module as a control signal.

(11) Engine knock signal circuit

Engine knocking is detected by the knock sensors, and is input into TERMINALS KNK1 and KNK2 of the engine control module as a control signal.

(12) A/C SW signal system

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

(13) Air fuel ratio signal circuit

The air fuel ratio is detected and input as a control signal into TERMINALS A1A+ and A2A+ of the engine control module.

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2. Control System

* SFI system
  The SFI system monitors the engine condition through the signals input from each sensors to the engine control module. The control signal is sent to the engine control module TERMINALS #10, #20, #30, #40, #50 and #60 to operate the injector (Fuel injection). The SFI system controls the fuel injection by the engine control module in response to the driving conditions.
* ESA system
  The ESA system monitors the engine condition through the signals input from each sensors to the engine control module. The best ignition timing is decided according to this data and the data memorized in the engine control module. The control signal is output to TERMINALS IGT1, IGT2, IGT3, IGT4, IGT5 and IGT6, and these signals control the igniter to provide the best ignition timing.
* Heated oxygen sensor heater control system
  The heated oxygen sensor heater control system turns the heater on when the intake air volume is low (Temp. of exhaust emission is low), and warms up the heated oxygen sensors to improve their detection performance. The engine control module evaluates the signals from each sensors, and outputs current to TERMINAL HT1B or HT2B to control the heater.
* Air fuel ratio sensor heater control system
  The air fuel ratio sensor heater control system turns the heater on when the intake air volume is low (Temp. of exhaust emission is low), and warms up the air fuel ratio sensor to improve detection performance of the sensor.
  The engine control module evaluates the signals from each sensor, current is output to TERMINALS HA1A and HA2A, controlling the heater.
* Fuel pump control system
  The engine control module supplies current to TERMINAL FPR, and controls the operation speed of the fuel pump with the FUEL PUMP relay.
* ACIS
  The ACIS includes a valve in the bulkhead separating the surge tank into two parts. This valve is opened and closed in accordance with the driving conditions to control the intake manifold length in two stages, for increased engine output in all ranges from low to high speeds.
* ETCS–i
  The ETCS–i controls the engine output at its optimal level in accordance with the opening of the accelerator pedal, under all driving conditions.
* VVT–i
  Controls the intake camshaft to an optimal valve timing in accordance with the engine condition.

3. Diagnosis System

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

4. Fail–Safe System

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

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○ : Parts Location

Code	See Page	Code	See Page	Code	See Page
A1	45	B17	39	E11	42
A2	45	B18	39	E13 A	42
A3	45	B19	39	E14 B	42
A4	38	B20	39	E29	43
A9	45	B21	39	E33	43
A13	38	B22	39	E46 D	43
A27	45	B23	39	E47 E	43
A29	38	B24	39	E50 A	44
B1 A	45	B25	39	E51 B	44
B2 B	45	B26	40	E57 A	44
B3 C	45	B27	40	E58 B	44
B5	39	B29	40	E59 A	44
B6	39	B31	40	E60 B	44
B7	39	B33	40	E61 A	36, 44
B9	39	B34	40	E62 B	36, 44
B10	39	B35	40	E63 C	36, 44
B11	39	B36	40	K6	46
B12	39	B44	40	L5	46
B13	39	B45	45	L10	46
B14	39	B46	45	U1	41
B15	39	E1	42	U2	41
B16	39	E6 A	42		

⬭ : Relay Blocks

Code	See Page	Relay Blocks (Relay Block Location)
2	22	Engine Room R/B No.2 (Engine Compartment Left)

⬭ : Junction Block and Wire Harness Connector

Code	See Page	Junction Block and Wire Harness (Connector Location)
1C	24	Engine Room Main Wire and Driver Side J/B (Lower Finish Panel)
1D		
1E		
1G	25	Instrument Panel Wire and Driver Side J/B (Lower Finish Panel)
1H		
1J		
1K		
1L		
5B	28	Instrument Panel Wire and Center J/B LH (Instrument Panel LH)
5D		
5E		
5F		
5H		
5J		
5K		
5L		
5M		
6C	32	Instrument Panel Wire and Center J/B RH (Instrument Panel RH)
6D		
6F		
6G		

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

Code	See Page	Joining Wire Harness and Wire Harness (Connector Location)
BE1	51	Engine Wire and Instrument Panel Wire (Upper the Glove Box)
BE2		
BU1	50	Engine Wire and Sensor Wire (Rear Side of Right Bank Cylinder Block)
EA1	51	Instrument Panel Wire and Engine Room Main Wire (Left Kick Panel)
EA2		
EA4		
EE1	51	Instrument Panel Wire and Instrument Panel Wire (Instrument Panel RH)
EK2	51	Instrument Panel Wire and Floor Wire (Right Kick Panel)
EL2	51	Instrument Panel Wire and Floor No.2 Wire (Left Kick Panel)
LA1	51	Floor No.2 Wire and Engine Room Main Wire (Left Kick Panel)
LA2		

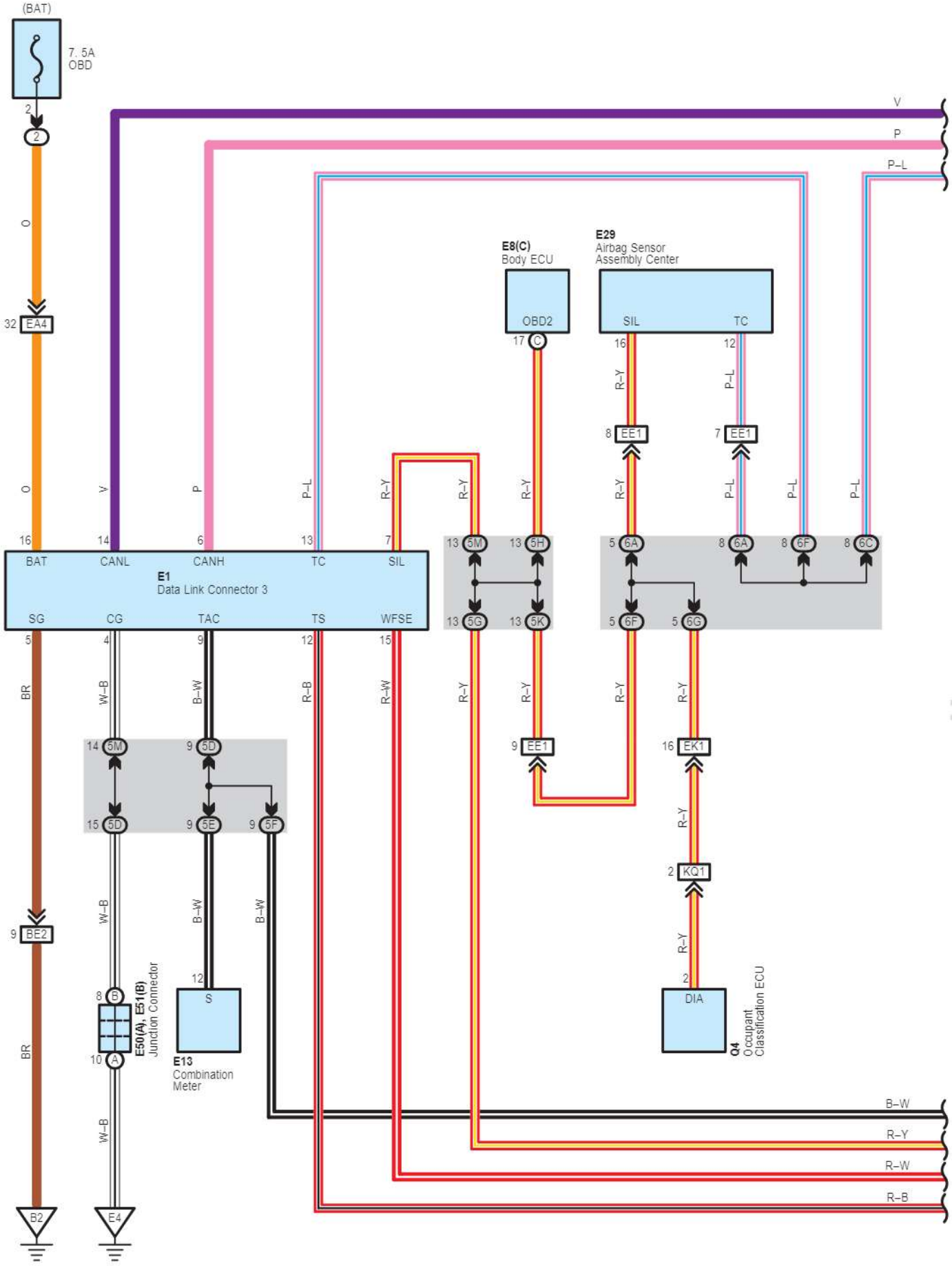
: **Ground Points**

Code	See Page	Ground Points Location
A1	50	Left Fender Apron
B1	50	Rear Side of Right Bank Cylinder Block
B2		
B3	50	Rear Side of Left Bank Cylinder Block
B4		
E2	51	Instrument Panel Brace LH
E4	51	Left Kick Panel
L2	52	Left Quarter Panel

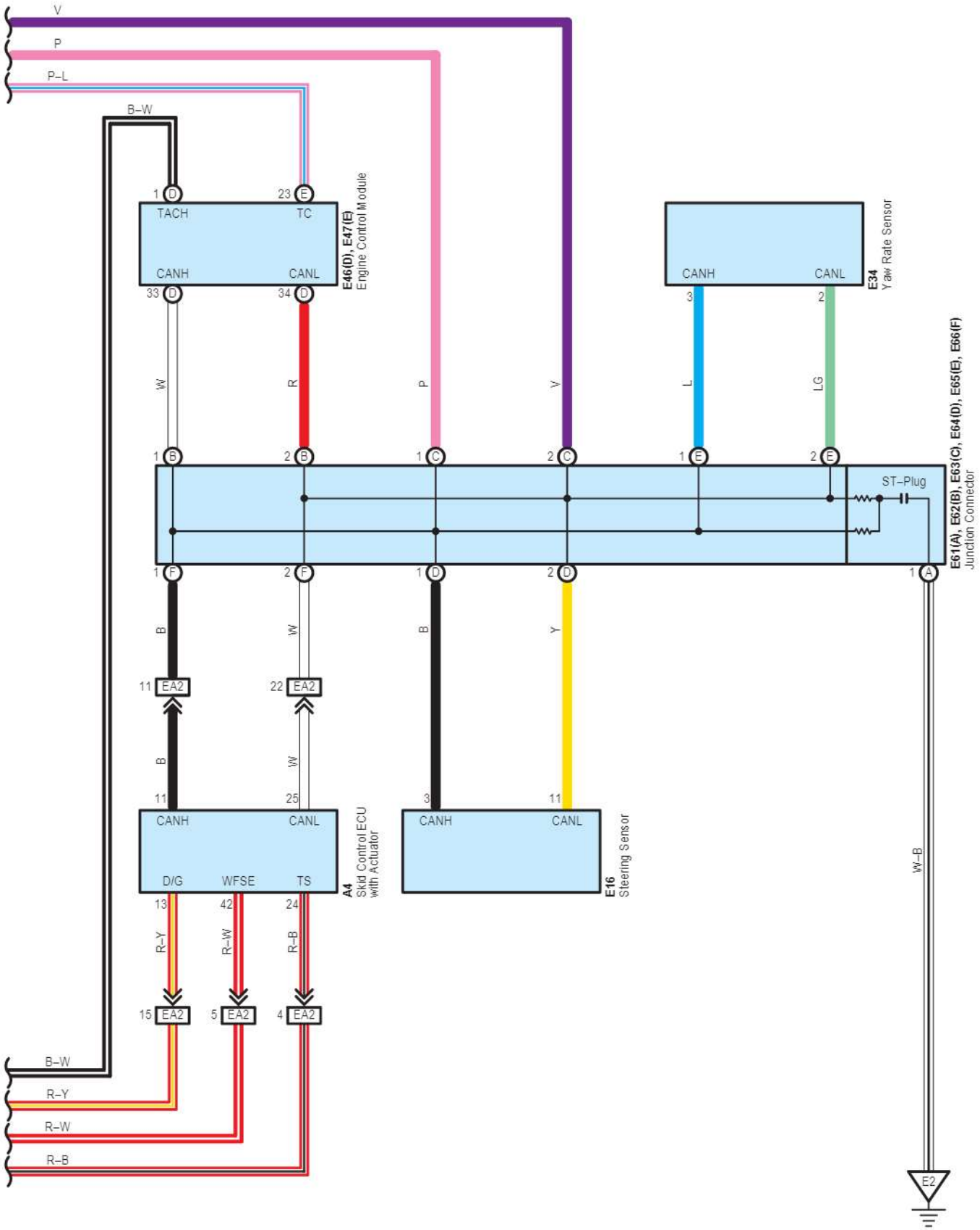
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Data Link Connector 3



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Data Link Connector 3

○ : **Parts Location**

Code	See Page	Code	See Page	Code	See Page
A4	38	E34	43	E62 B	36, 44
E1	42	E46 D	43	E63 C	36, 44
E8 C	42	E47 E	43	E64 D	36, 44
E13	42	E50 A	44	E65 E	36, 44
E16	42	E51 B	44	E66 F	36, 44
E29	43	E61 A	36, 44	Q4	48

⬭ : **Relay Blocks**

Code	See Page	Relay Blocks (Relay Block Location)
2	22	Engine Room R/B No.2 (Engine Compartment Left)

⬭ : **Junction Block and Wire Harness Connector**

Code	See Page	Junction Block and Wire Harness (Connector Location)
5D	28	Instrument Panel Wire and Center J/B LH (Instrument Panel LH)
5E		
5F		
5G		
5H		
5K		
5M		
6A	32	Instrument Panel Wire and Center J/B RH (Instrument Panel RH)
6C		
6F		
6G		

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

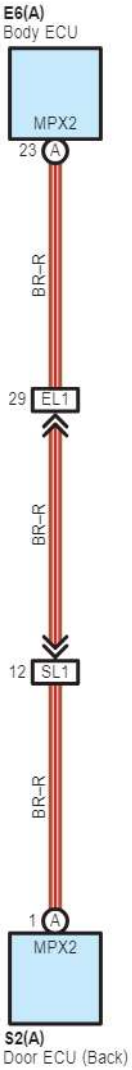
Code	See Page	Joining Wire Harness and Wire Harness (Connector Location)
BE2	51	Engine Wire and Instrument Panel Wire (Upper the Glove Box)
EA2	51	Instrument Panel Wire and Engine Room Main Wire (Left Kick Panel)
EA4		
EE1	51	Instrument Panel Wire and Instrument Panel Wire (Instrument Panel RH)
EK1	51	Instrument Panel Wire and Floor Wire (Right Kick Panel)
KQ1	53	Floor Wire and Seat No.1 Wire (Under the Front Seat RH)

▽ : **Ground Points**

Code	See Page	Ground Points Location
B2	50	Rear Side of Right Bank Cylinder Block
E2	51	Instrument Panel Brace LH
E4	51	Left Kick Panel

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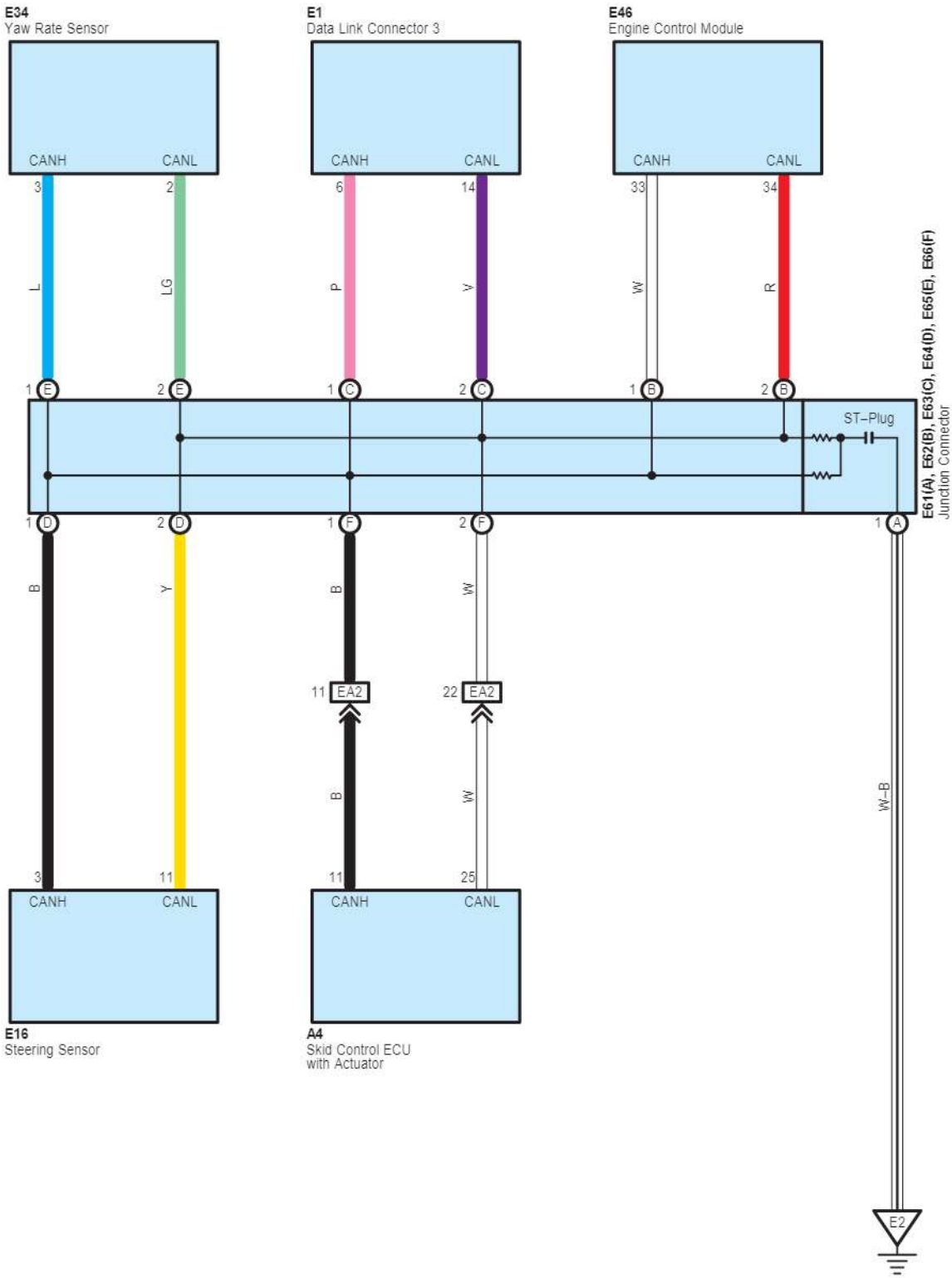
○ : **Parts Location**

Code		See Page	Code		See Page	Code	See Page
E6	A	42	S2	A	47		

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

Code	See Page	Joining Wire Harness and Wire Harness (Connector Location)
EL1	51	Instrument Panel Wire and Floor No.2 Wire (Left Kick Panel)
SL1	52	Back Door No.1 Wire and Floor No.2 Wire (Left Quarter Panel)

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System Outline

CAN has two lines as a pair which make communication with operating voltage. CAN has excellent data speed and error detecting capacity. It consists of vehicle control systems such as engine control module, data link connector 3, skid control ECU with actuator, steering sensor and yaw rate sensor.

○ : Parts Location

Code	See Page	Code		See Page	Code		See Page
A4	38	E46		43	E64	D	36, 44
E1	42	E61	A	36, 44	E65	E	36, 44
E16	42	E62	B	36, 44	E66	F	36, 44
E34	43	E63	C	36, 44			

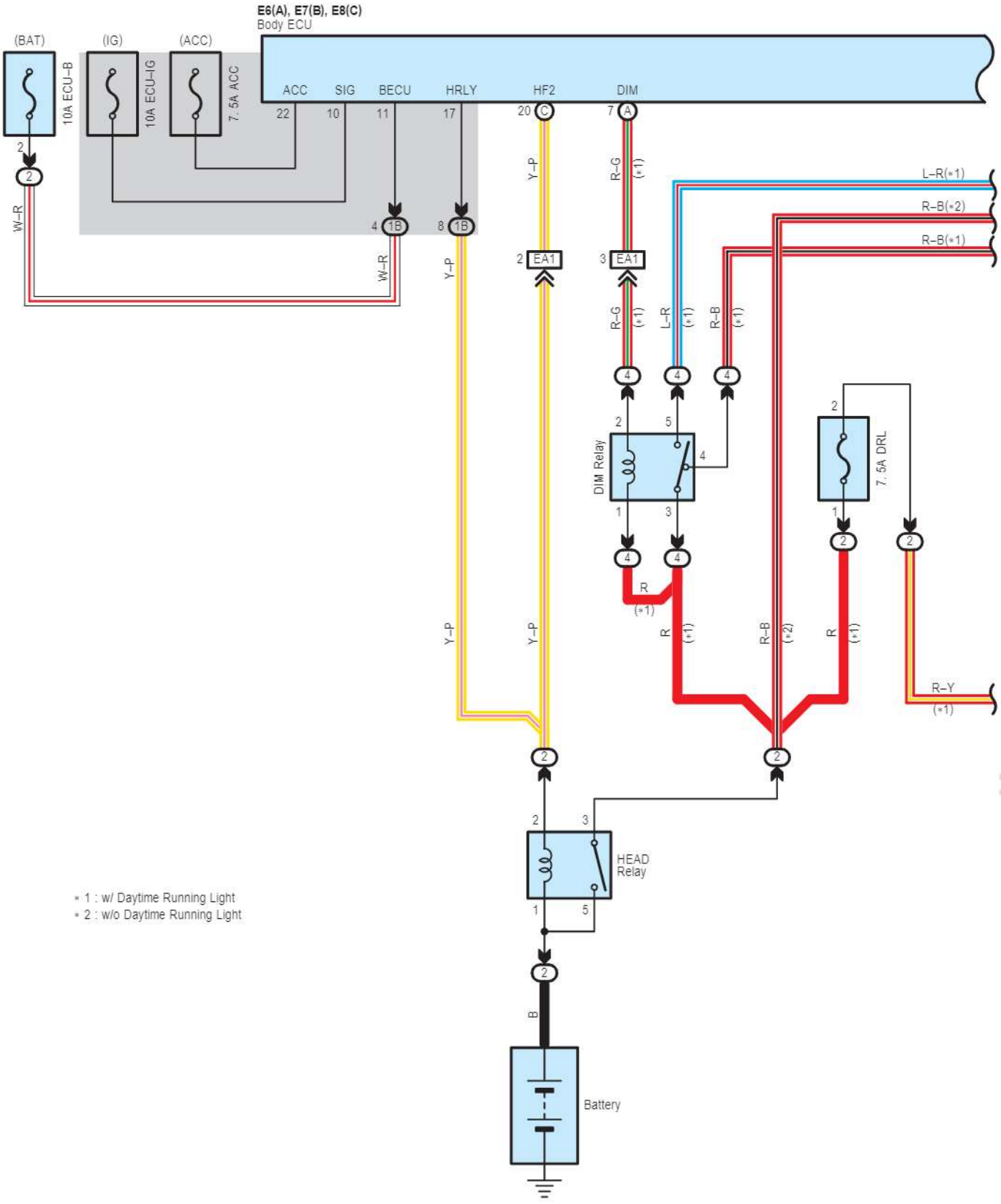
▭ : Connector Joining Wire Harness and Wire Harness

Code	See Page	Joining Wire Harness and Wire Harness (Connector Location)
EA2	51	Instrument Panel Wire and Engine Room Main Wire (Left Kick Panel)

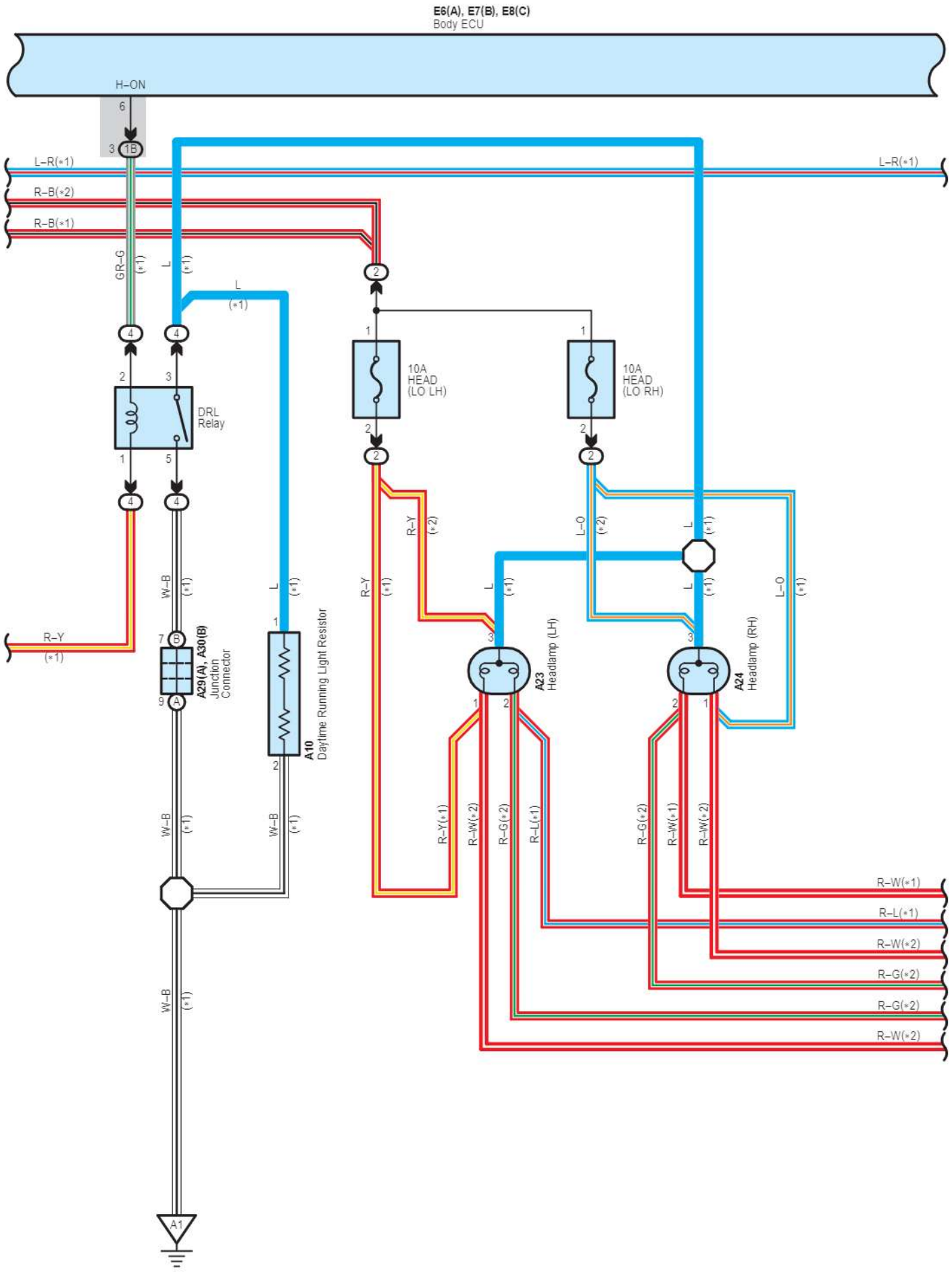
▽ : Ground Points

Code	See Page	Ground Points Location
E2	51	Instrument Panel Brace LH

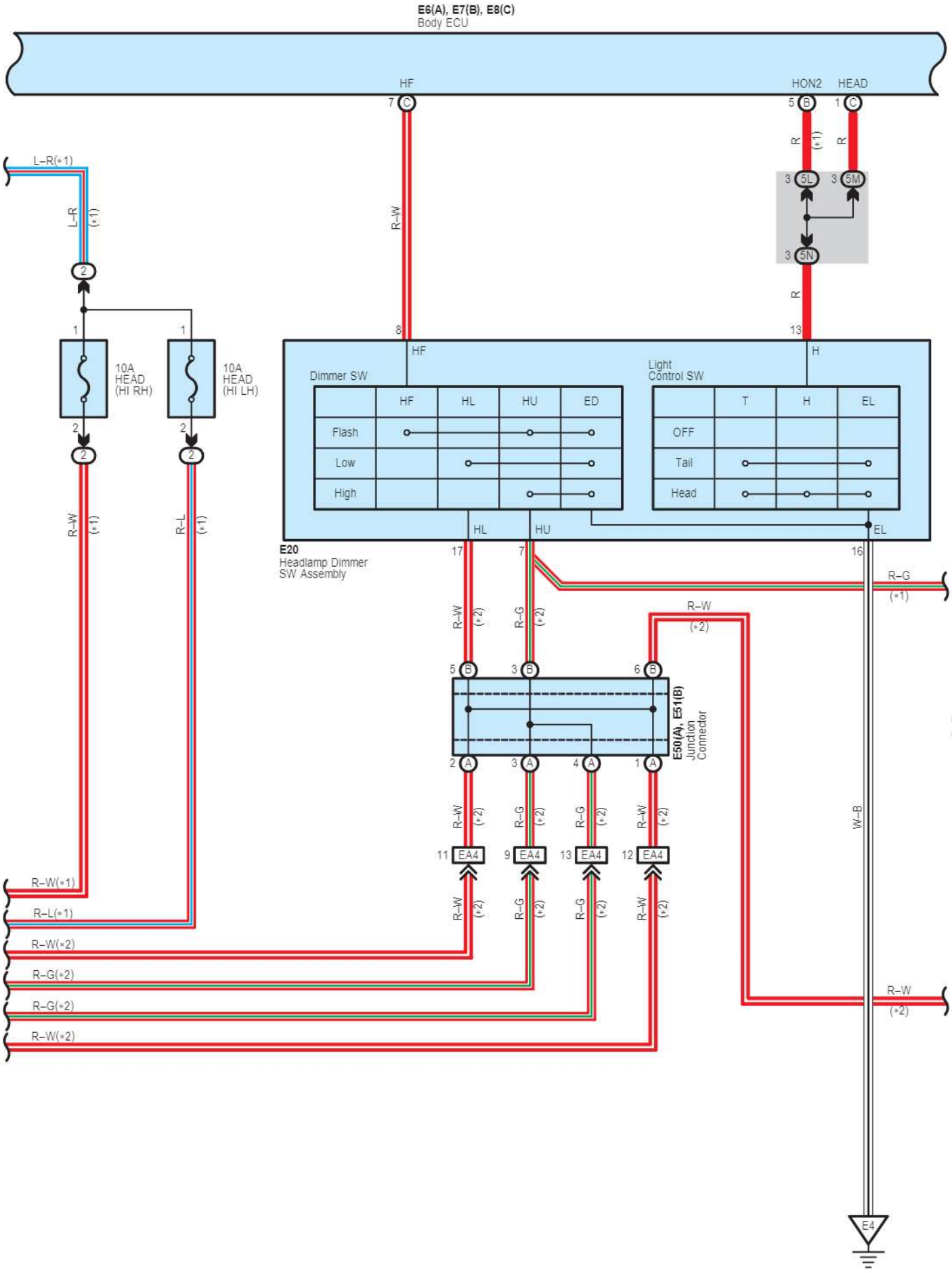
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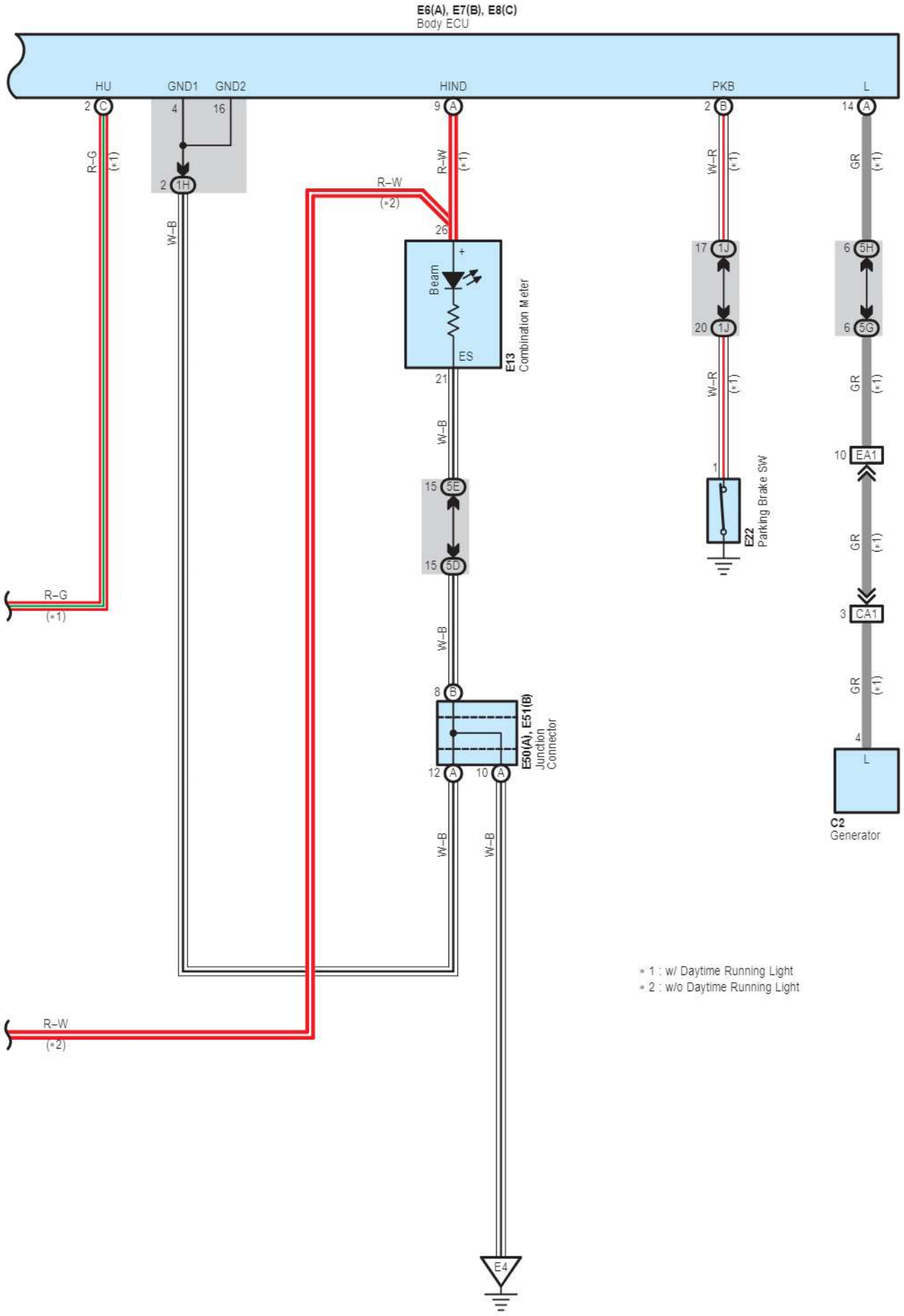
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Headlight

System Outline

Daytime Running Light Operation

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

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

: Parts Location

Code	See Page	Code	See Page	Code	See Page
A10	38	C2	41	E20	42
A23	38	E6 A	42	E22	42
A24	38	E7 B	42	E50 A	44
A29 A	38	E8 C	42	E51 B	44
A30 B	38	E13	42		

: Relay Blocks

Code	See Page	Relay Blocks (Relay Block Location)
2	22	Engine Room R/B No.2 (Engine Compartment Left)
4	23	Engine Room R/B No.4 (Engine Compartment Left)

: Junction Block and Wire Harness Connector

Code	See Page	Junction Block and Wire Harness (Connector Location)
1B	24	Engine Room Main Wire and Driver Side J/B (Lower Finish Panel)
1H	25	Instrument Panel Wire and Driver Side J/B (Lower Finish Panel)
1J		
5D	28	Instrument Panel Wire and Center J/B LH (Instrument Panel LH)
5E		
5G		
5H		
5L		
5M		
5N		

: Connector Joining Wire Harness and Wire Harness

Code	See Page	Joining Wire Harness and Wire Harness (Connector Location)
CA1	50	Engine No.2 Wire and Engine Room Main Wire (Near the Engine Room R/B No.2)
EA1	51	Instrument Panel Wire and Engine Room Main Wire (Left Kick Panel)
EA4		

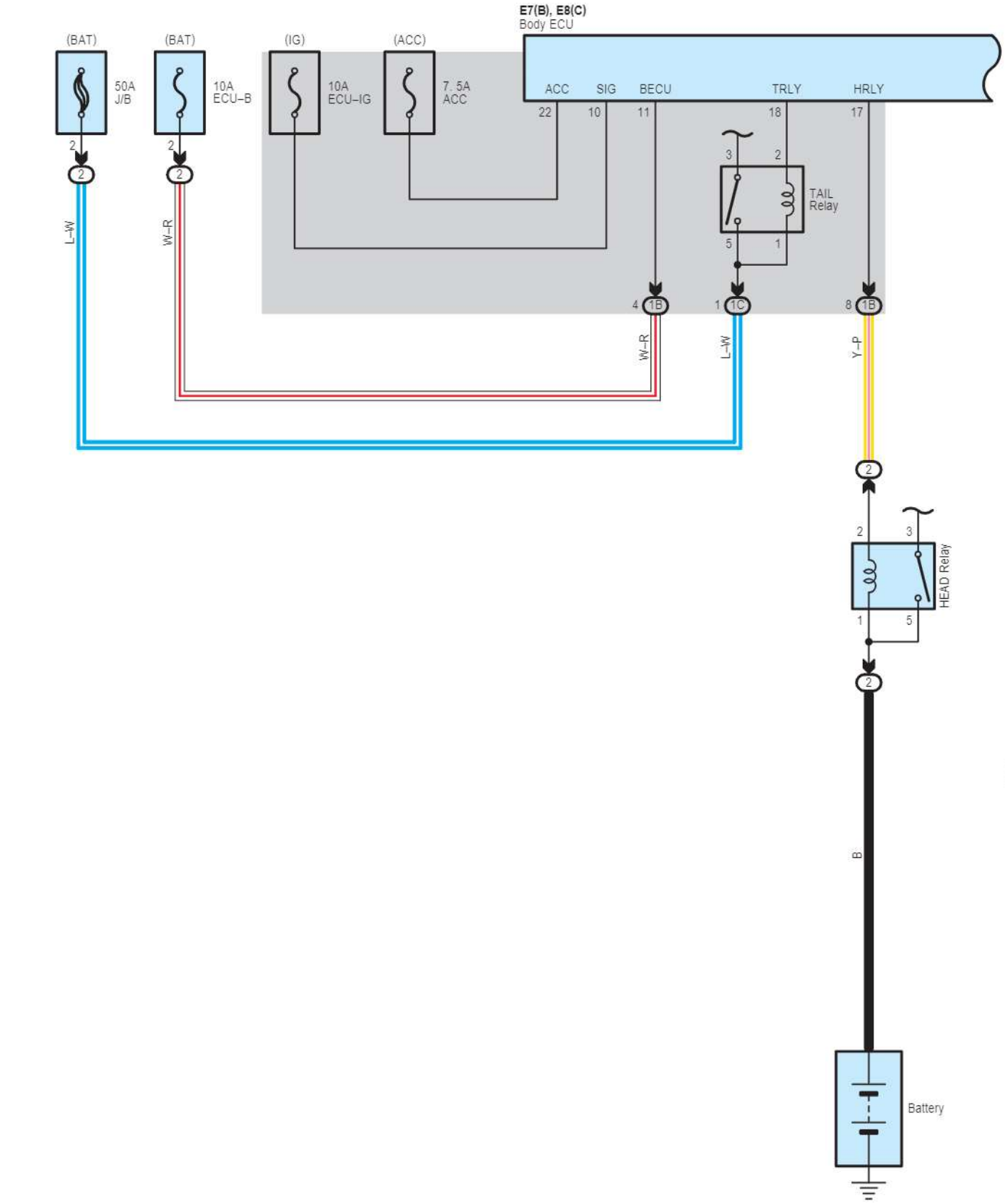
: Ground Points

Code	See Page	Ground Points Location
A1	50	Left Fender Apron
E4	51	Left Kick Panel

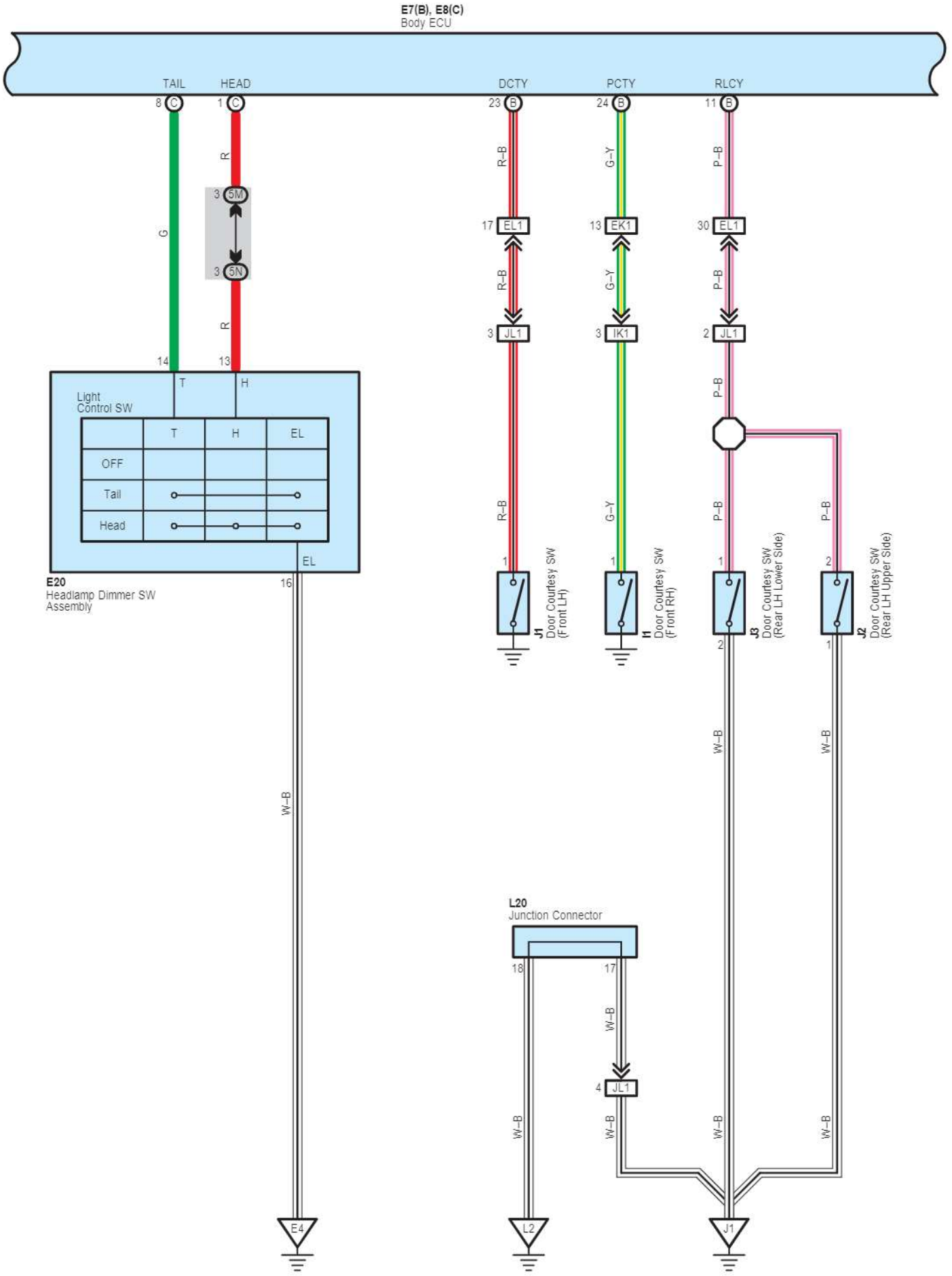
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Light Auto Turn Off System

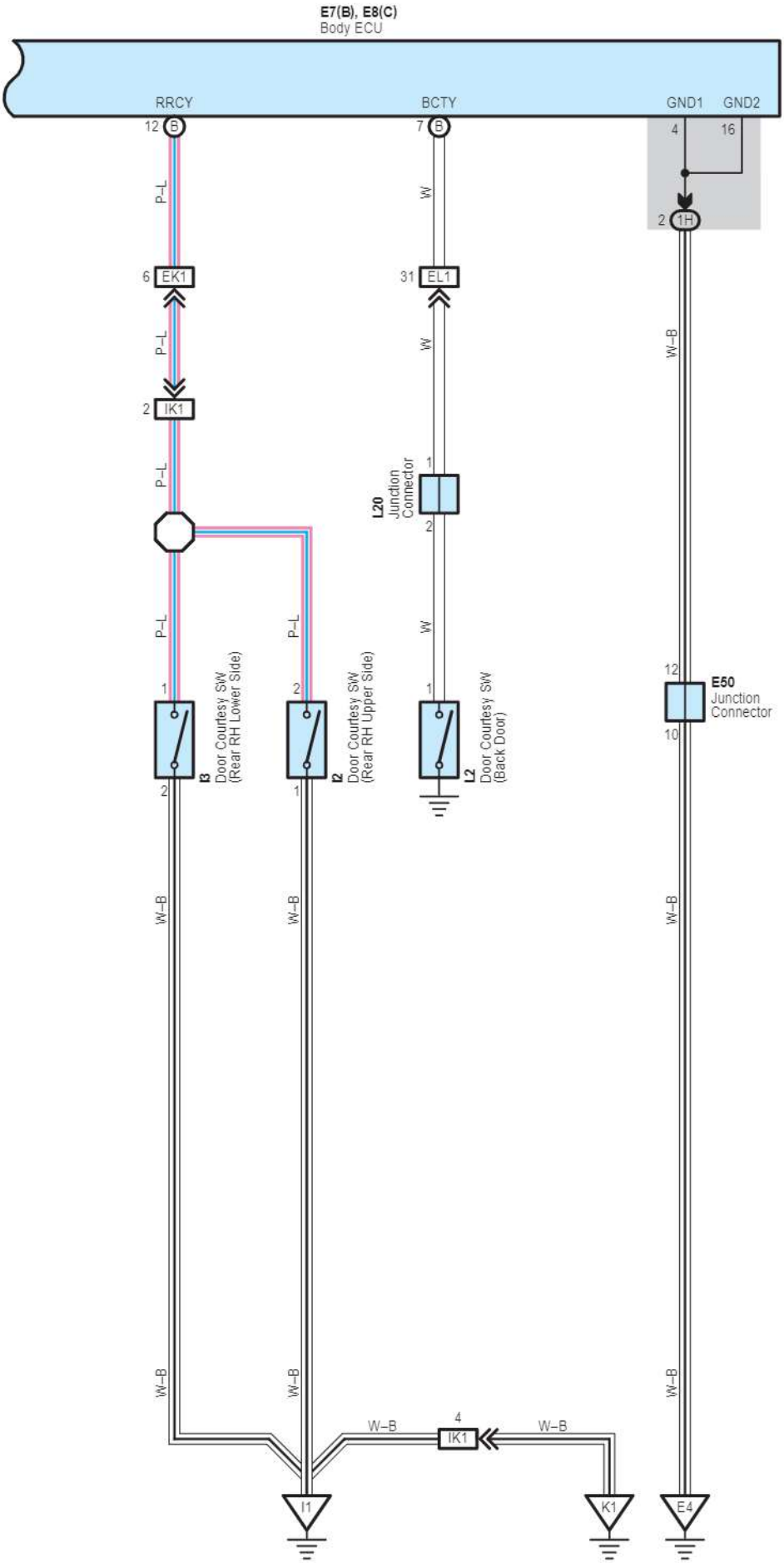


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Light Auto Turn Off System



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System Outline

If the ignition SW is turned OFF and driver's door is opened when the headlights and taillights are ON, the lights turn OFF automatically.
However, in models for North America, the lights remain illuminated for 30 seconds after the ignition SW is turned OFF and all the doors are closed.

○ : Parts Location

Code	See Page	Code	See Page	Code	See Page
E7 B	42	I1	47	J2	47
E8 C	42	I2	47	J3	47
E20	42	I3	47	L2	46
E50	44	J1	47	L20	46

⬭ : Relay Blocks

Code	See Page	Relay Blocks (Relay Block Location)
2	22	Engine Room R/B No.2 (Engine Compartment Left)

⬭ : Junction Block and Wire Harness Connector

Code	See Page	Junction Block and Wire Harness (Connector Location)
1B 1C	24	Engine Room Main Wire and Driver Side J/B (Lower Finish Panel)
1H	25	Instrument Panel Wire and Driver Side J/B (Lower Finish Panel)
5M 5N	28	Instrument Panel Wire and Center J/B LH (Instrument Panel LH)

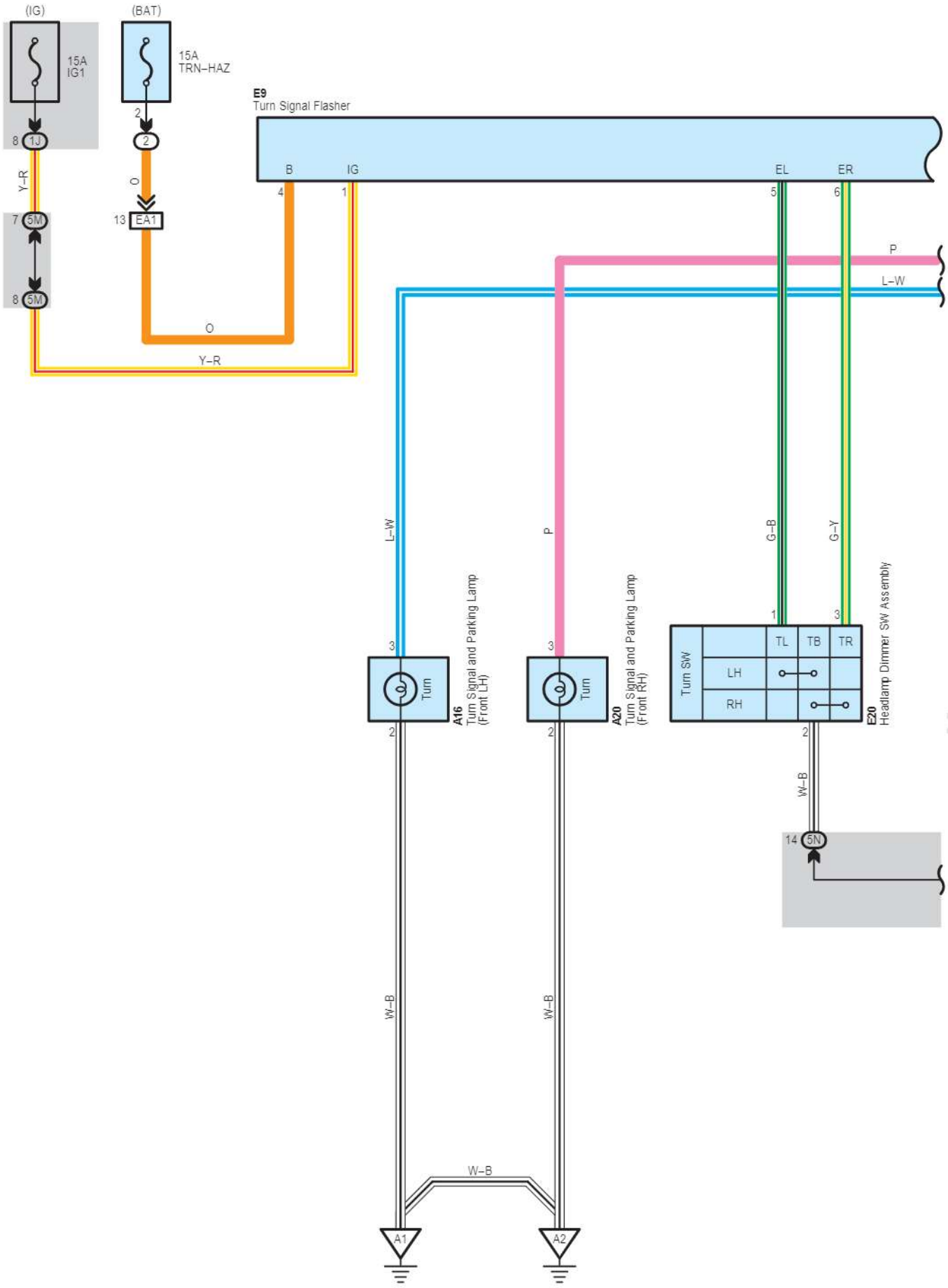
▭ : Connector Joining Wire Harness and Wire Harness

Code	See Page	Joining Wire Harness and Wire Harness (Connector Location)
EK1	51	Instrument Panel Wire and Floor Wire (Right Kick Panel)
EL1	51	Instrument Panel Wire and Floor No.2 Wire (Left Kick Panel)
IK1	52	Rear Door No.1 Wire and Floor Wire (Right Quarter Panel)
JL1	52	Rear Door No.2 Wire and Floor No.2 Wire (Left Quarter Panel)

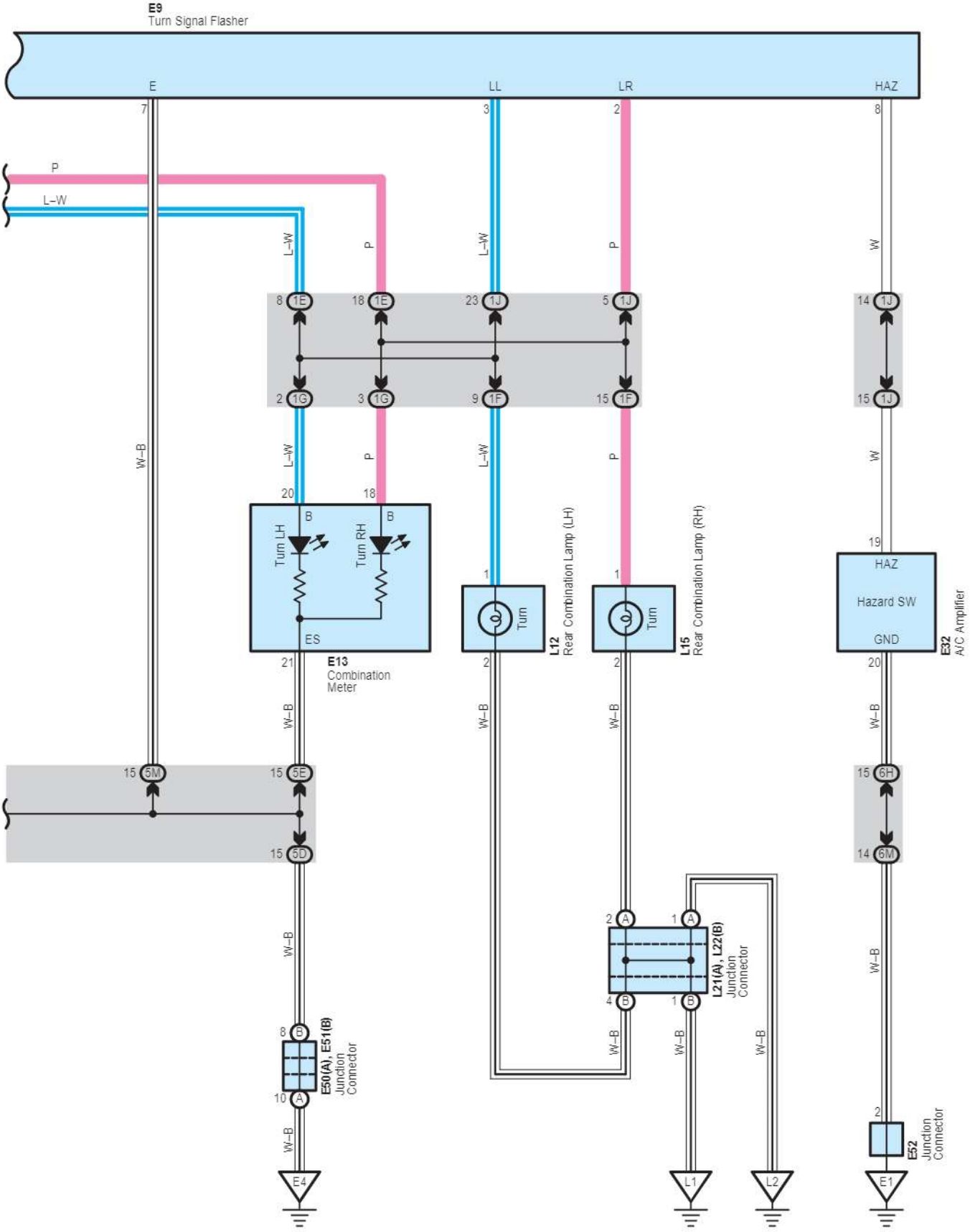
▽ : Ground Points

Code	See Page	Ground Points Location
E4	51	Left Kick Panel
I1	52	Access Door RH
J1	52	Access Door LH
K1	52	Floor Seat Crossmember RH
L2	52	Left Quarter Panel

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Turn Signal and Hazard Warning Light

○ : Parts Location

Code	See Page	Code	See Page	Code	See Page
A16	38	E32	43	L15	46
A20	38	E50 A	44	L21 A	46
E9	42	E51 B	44	L22 B	46
E13	42	E52	44		
E20	42	L12	46		

⬭ : Relay Blocks

Code	See Page	Relay Blocks (Relay Block Location)
2	22	Engine Room R/B No.2 (Engine Compartment Left)

⬭ : Junction Block and Wire Harness Connector

Code	See Page	Junction Block and Wire Harness (Connector Location)
1E	24	Engine Room Main Wire and Driver Side J/B (Lower Finish Panel)
1F	24	Floor No.2 Wire and Driver Side J/B (Lower Finish Panel)
1G	25	Instrument Panel Wire and Driver Side J/B (Lower Finish Panel)
1J		
5D	28	Instrument Panel Wire and Center J/B LH (Instrument Panel LH)
5E		
5M		
5N		
6H	32	Instrument Panel Wire and Center J/B RH (Instrument Panel RH)
6M		

▭ : Connector Joining Wire Harness and Wire Harness

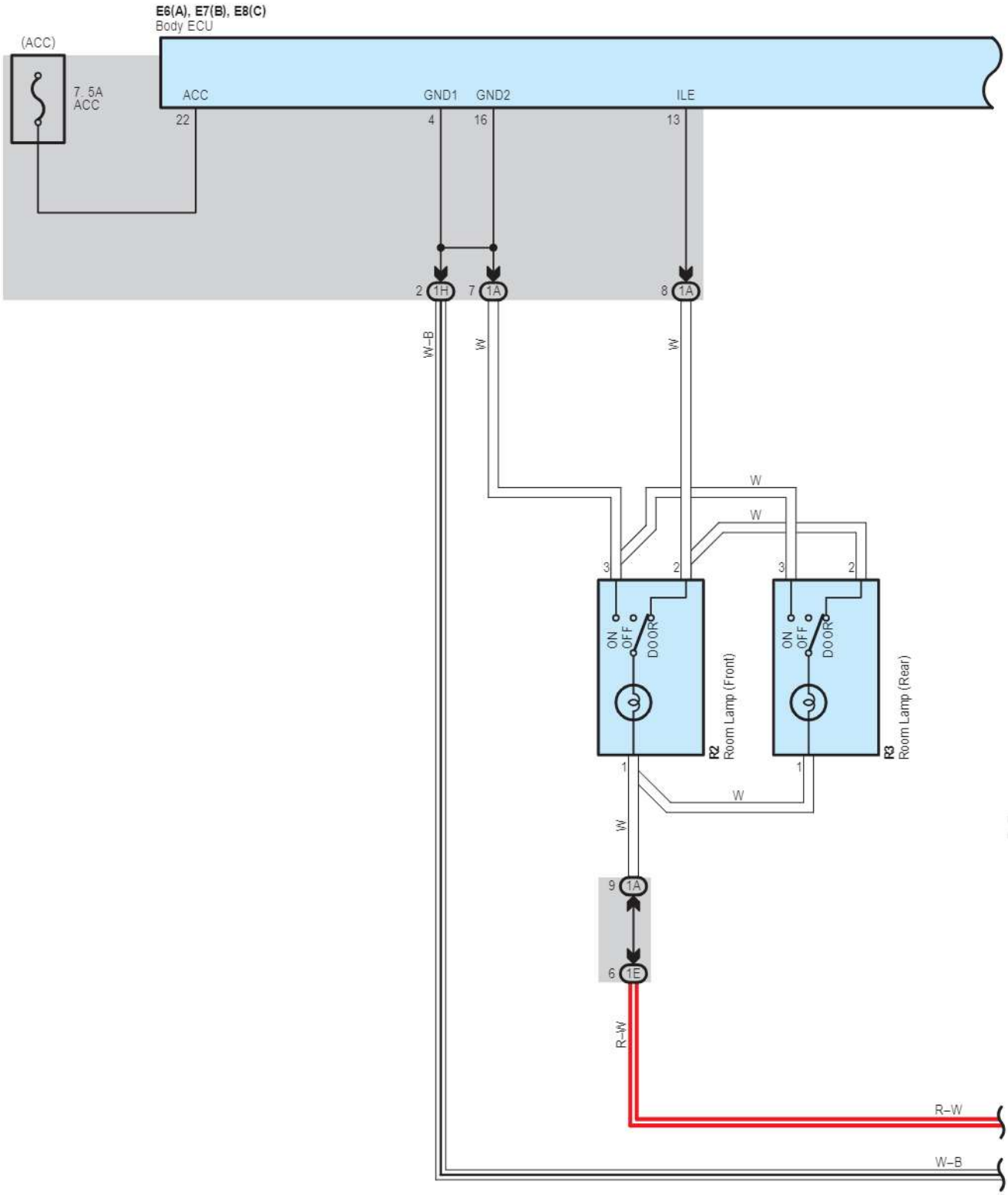
Code	See Page	Joining Wire Harness and Wire Harness (Connector Location)
EA1	51	Instrument Panel Wire and Engine Room Main Wire (Left Kick Panel)

▽ : Ground Points

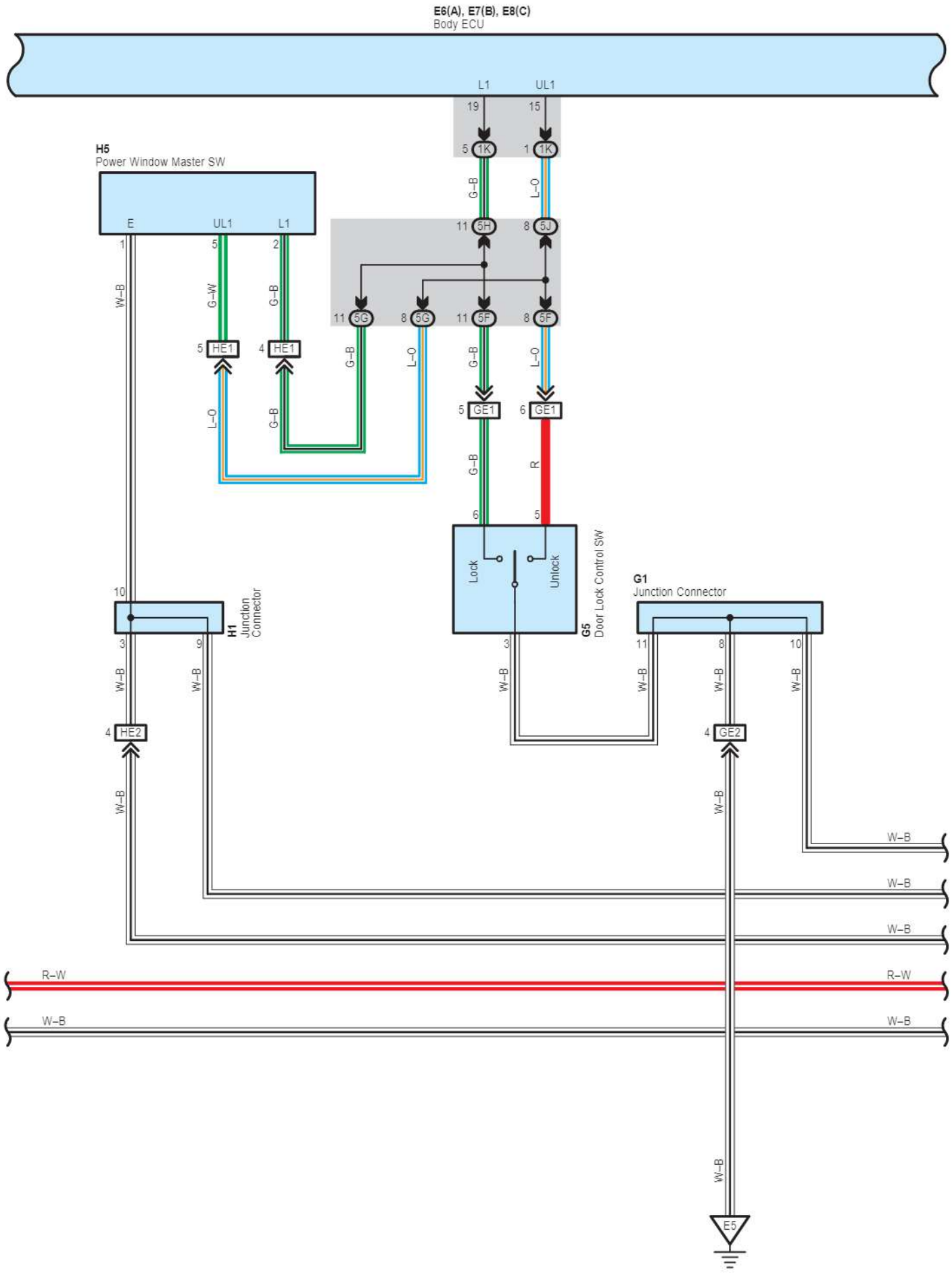
Code	See Page	Ground Points Location
A1	50	Left Fender Apron
A2	50	Right Fender Apron
E1	51	Instrument Panel Brace RH
E4	51	Left Kick Panel
L1	52	Floor Seat Crossmember LH
L2	52	Left Quarter Panel

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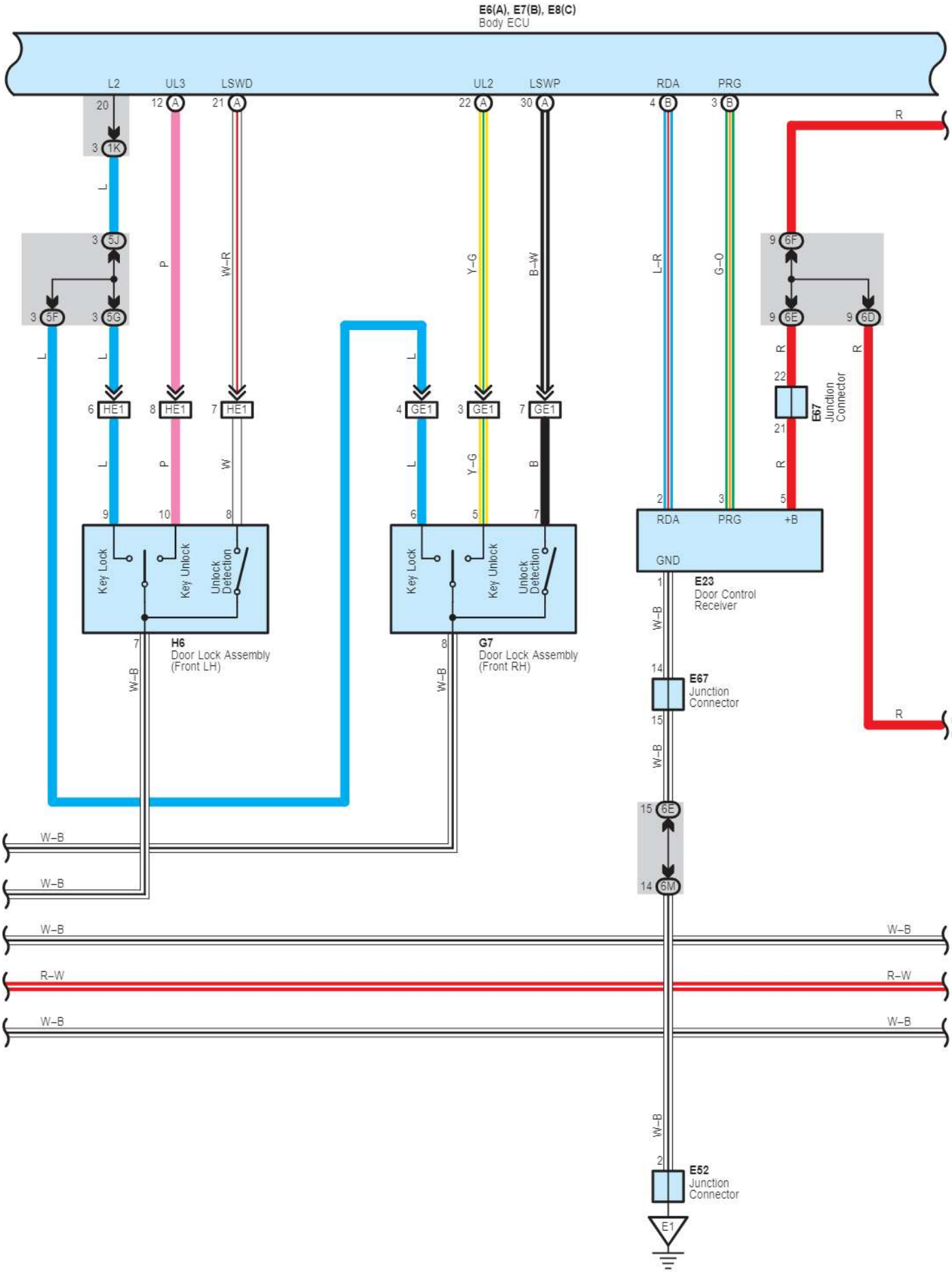
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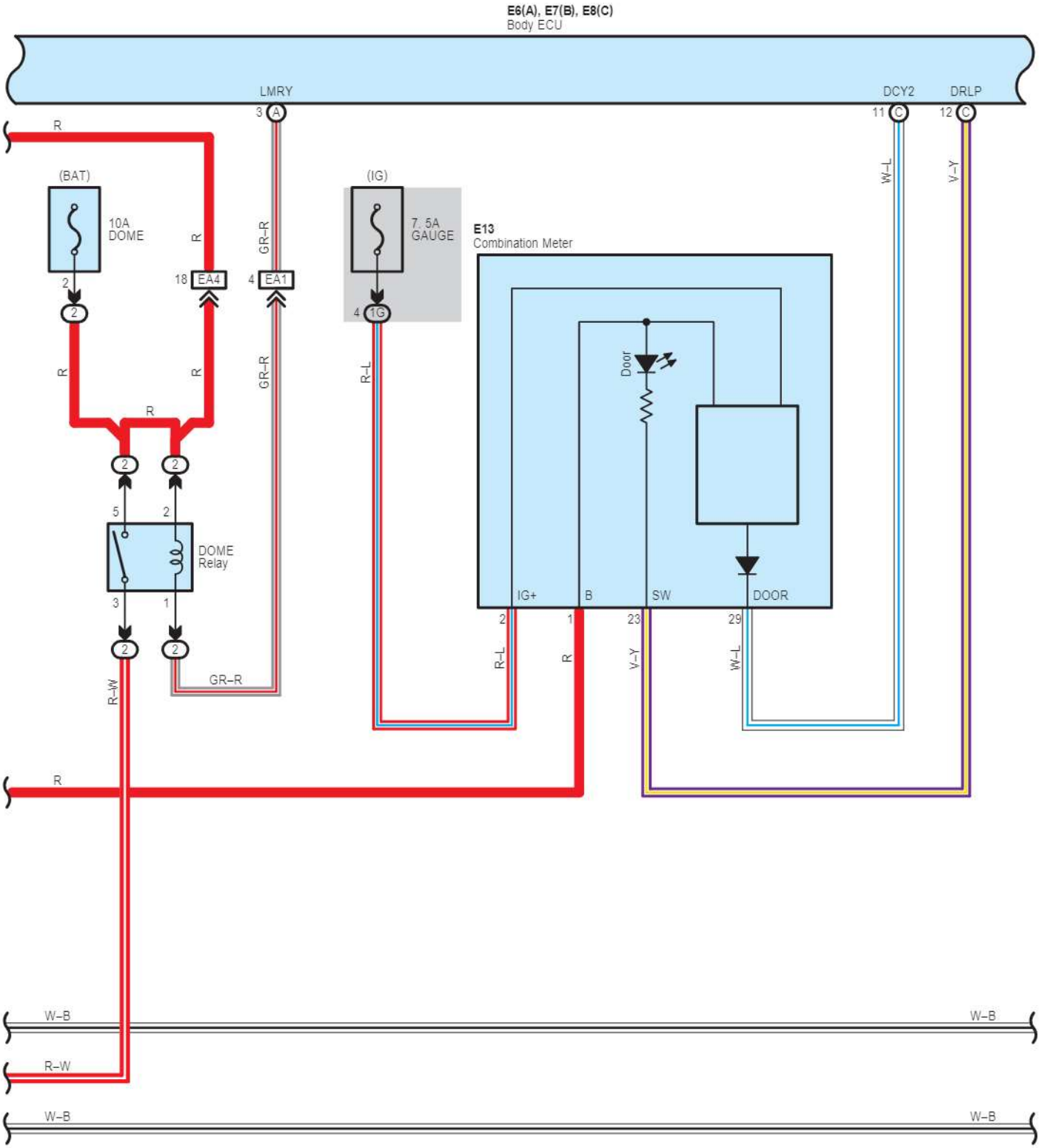
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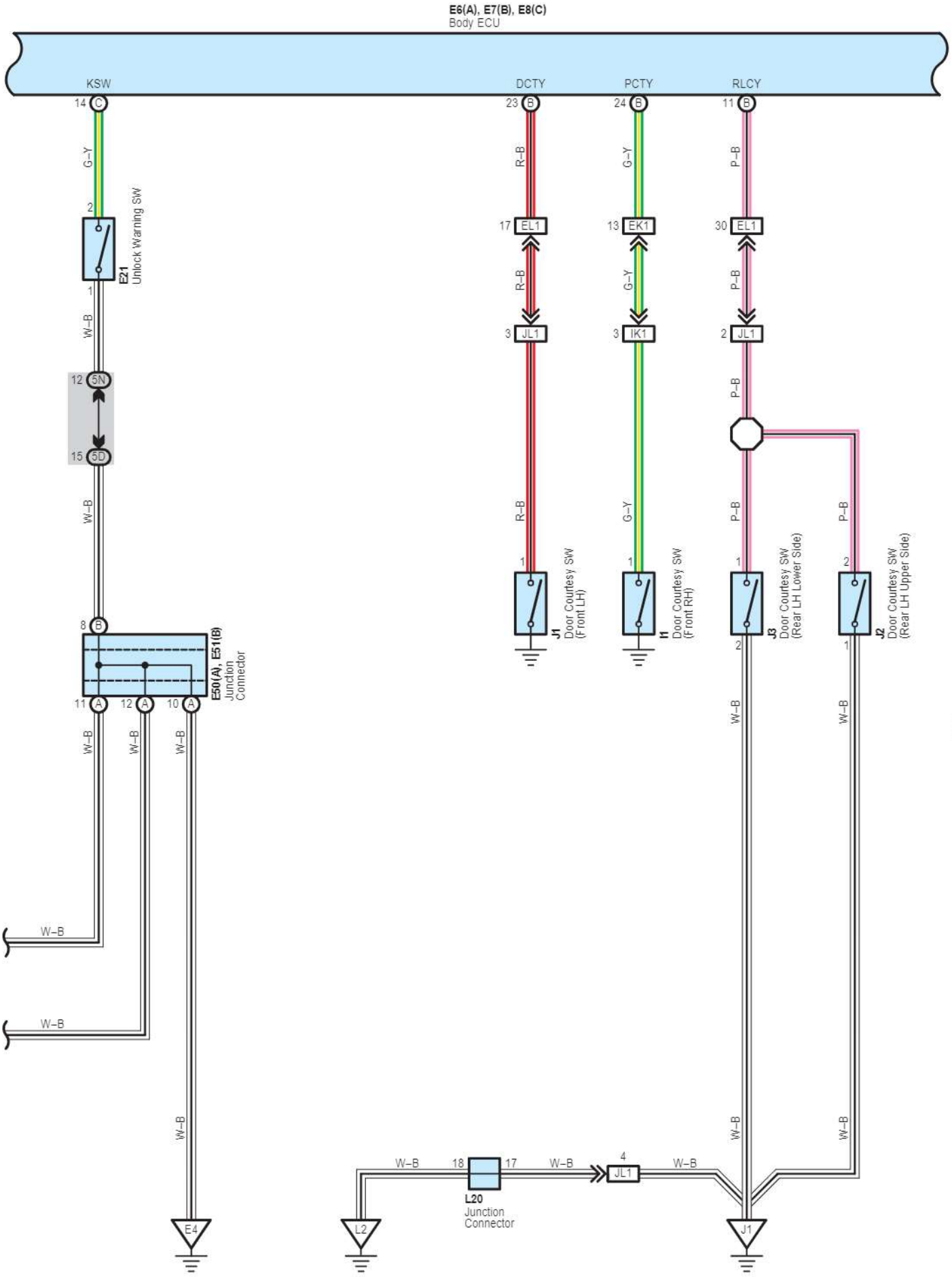
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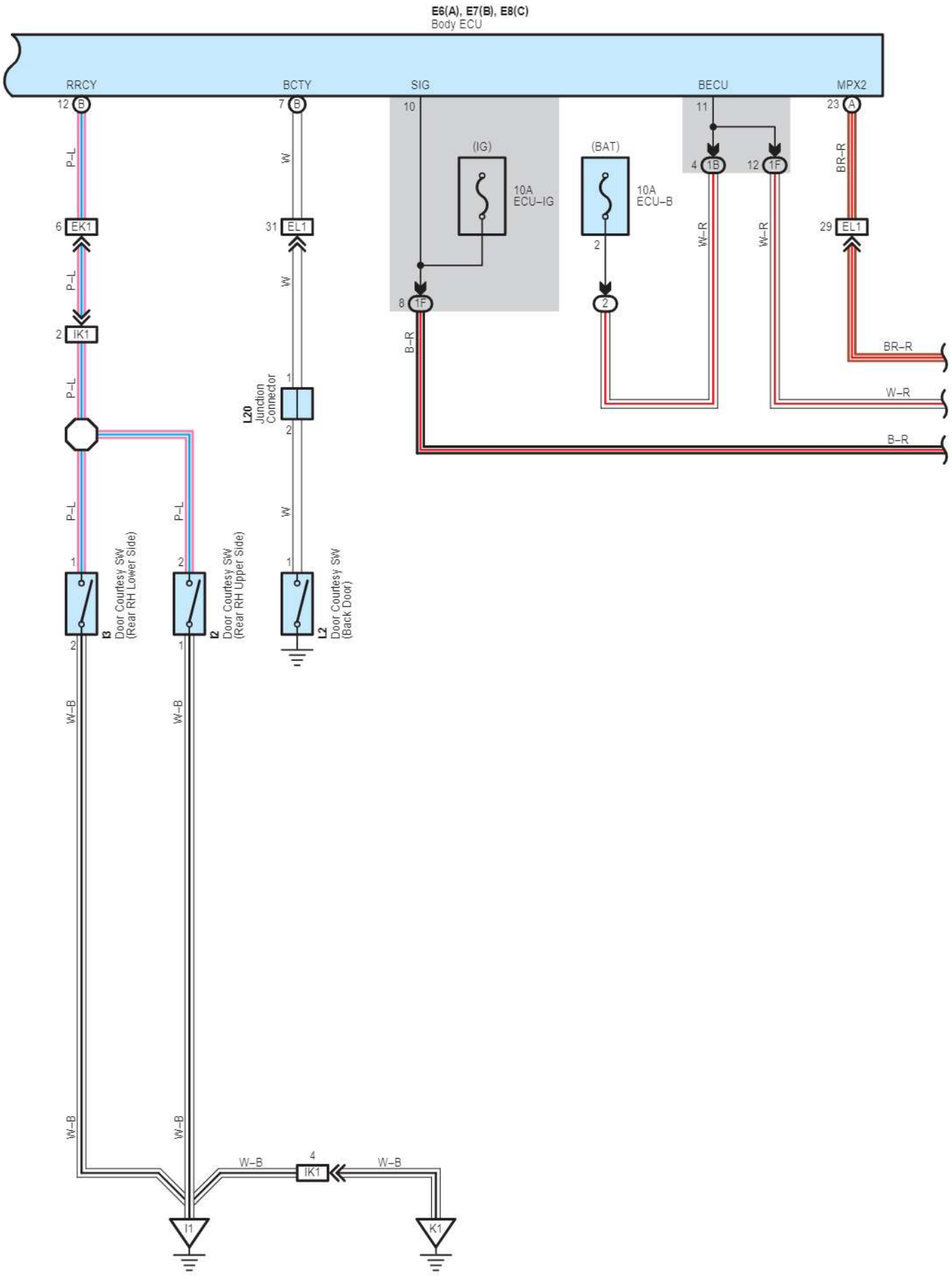
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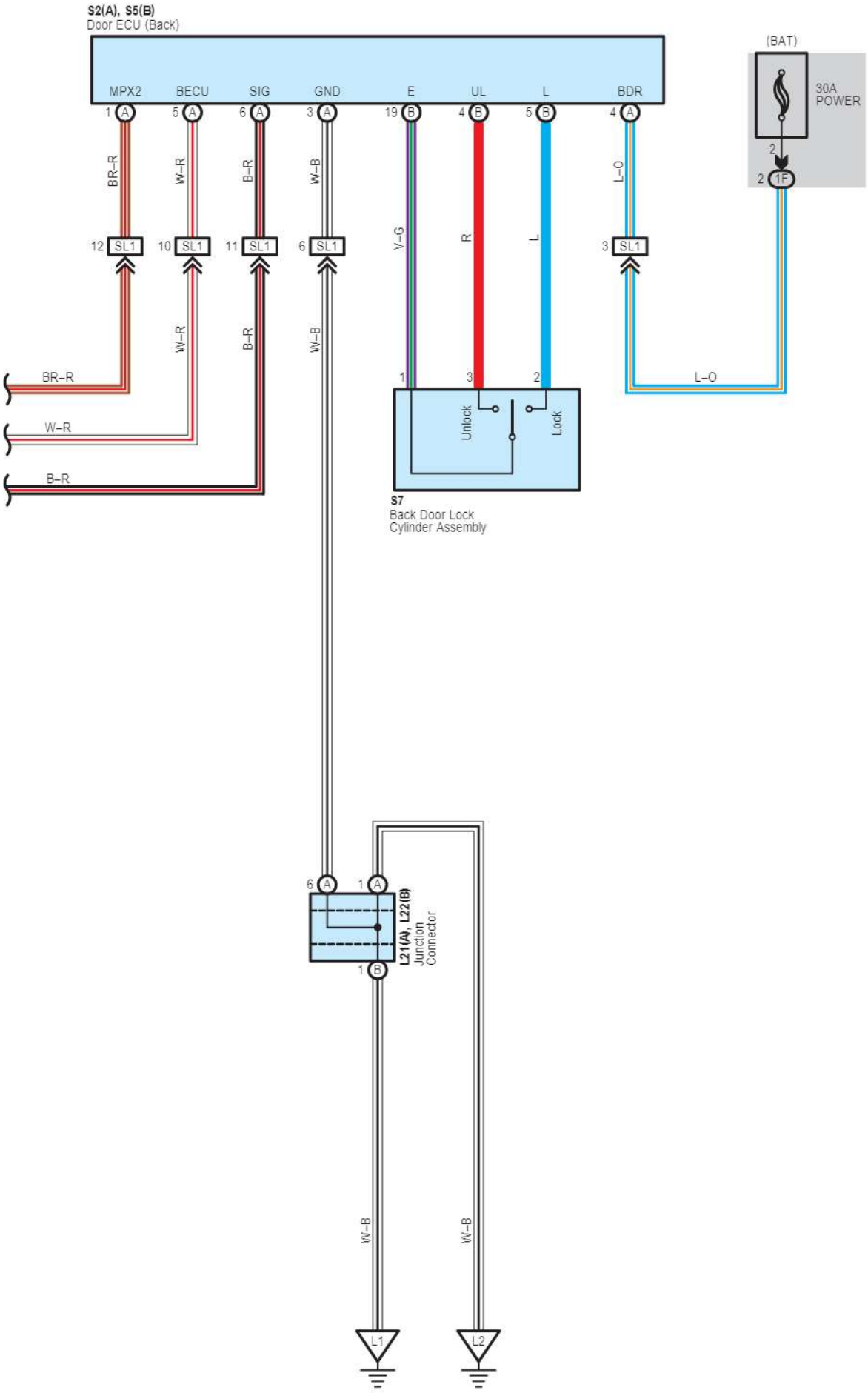
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System Outline

The interior light is controlled by the body ECU. This system has following features.

1. Normal Operation

* When one of the doors opened, the room lamps and open door warning light is turned on. When the all doors are closed, the room lamps and open door warning light is turned off.

2. Illuminated Entry System

* When a door is unlocked through a key operation or transmitter operation, or if a door is opened or closed, the illuminated entry system turns ON the room lamps.
* If the ignition SW is turned to the ACC or ON position or if all doors are locked during the 15 seconds in which these lamps are ON, they will immediately turn OFF.

: Parts Location

Code	See Page	Code	See Page	Code	See Page
E6 A	42	G5	47	L2	46
E7 B	42	G7	47	L20	46
E8 C	42	H1	47	L21 A	46
E13	42	H5	47	L22 B	46
E21	42	H6	47	R2	47
E23	42	I1	47	R3	47
E50 A	44	I2	47	S2 A	47
E51 B	44	I3	47	S5 B	47
E52	44	J1	47	S7	47
E67	44	J2	47		
G1	47	J3	47		

: Relay Blocks

Code	See Page	Relay Blocks (Relay Block Location)
2	22	Engine Room R/B No.2 (Engine Compartment Left)

: Junction Block and Wire Harness Connector

Code	See Page	Junction Block and Wire Harness (Connector Location)
1A	24	Roof Wire and Driver Side J/B (Lower Finish Panel)
1B	24	Engine Room Main Wire and Driver Side J/B (Lower Finish Panel)
1E		
1F	24	Floor No.2 Wire and Driver Side J/B (Lower Finish Panel)
1G	25	Instrument Panel Wire and Driver Side J/B (Lower Finish Panel)
1H		
1K		
5D	28	Instrument Panel Wire and Center J/B LH (Instrument Panel LH)
5F		
5G		
5H		
5J		
5N		
6D	32	Instrument Panel Wire and Center J/B RH (Instrument Panel RH)
6E		
6F		
6M		

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

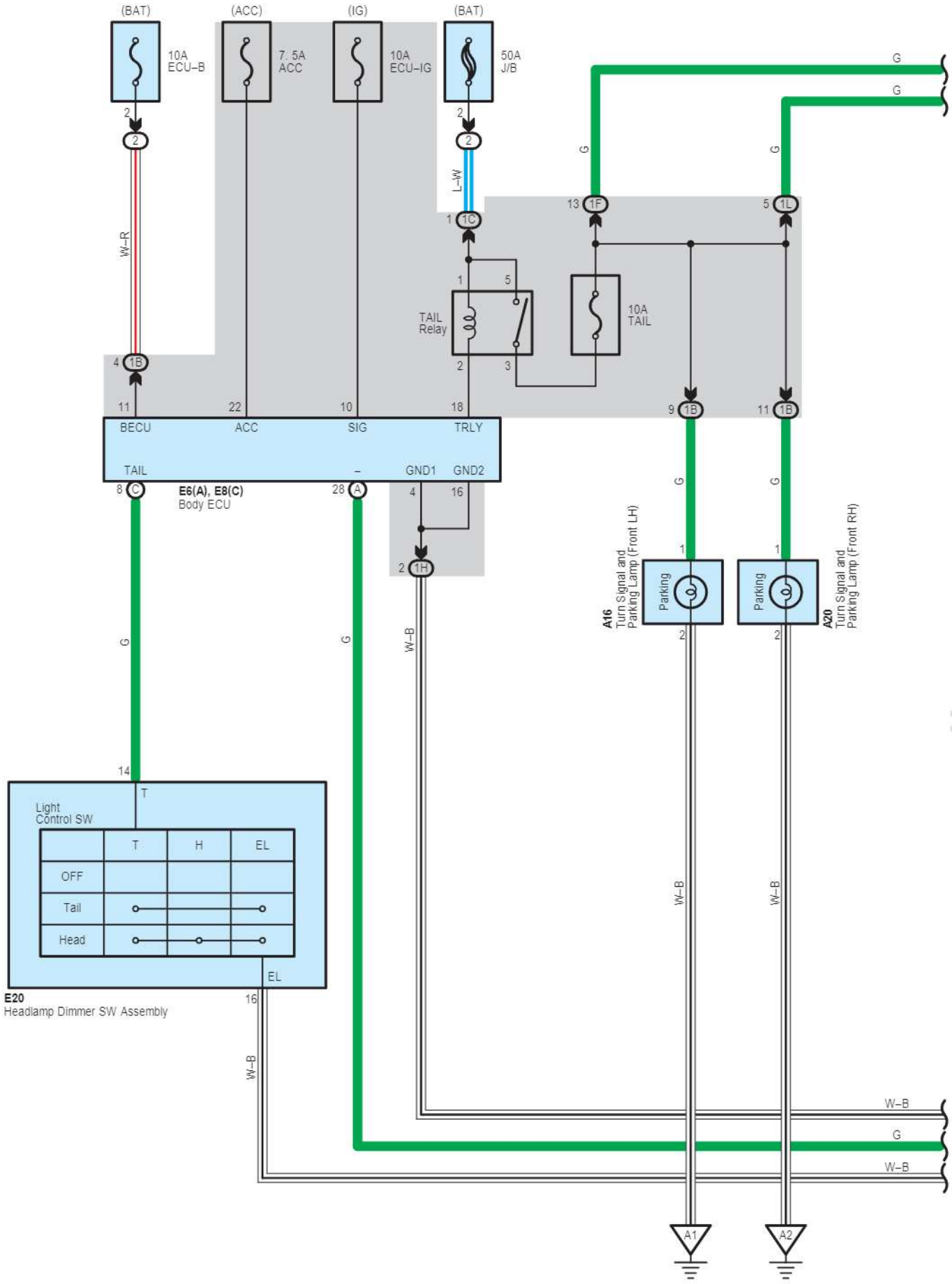
Code	See Page	Joining Wire Harness and Wire Harness (Connector Location)
EA1	51	Instrument Panel Wire and Engine Room Main Wire (Left Kick Panel)
EA4		
EK1	51	Instrument Panel Wire and Floor Wire (Right Kick Panel)
EL1	51	Instrument Panel Wire and Floor No.2 Wire (Left Kick Panel)
GE1	51	Front Door RH Wire and Instrument Panel Wire (Right Kick Panel)
GE2		
HE1	51	Front Door LH Wire and Instrument Panel Wire (Left Kick Panel)
HE2		
IK1	52	Rear Door No.1 Wire and Floor Wire (Right Quarter Panel)
JL1	52	Rear Door No.2 Wire and Floor No.2 Wire (Left Quarter Panel)
SL1	52	Back Door No.1 Wire and Floor No.2 Wire (Left Quarter Panel)

: **Ground Points**

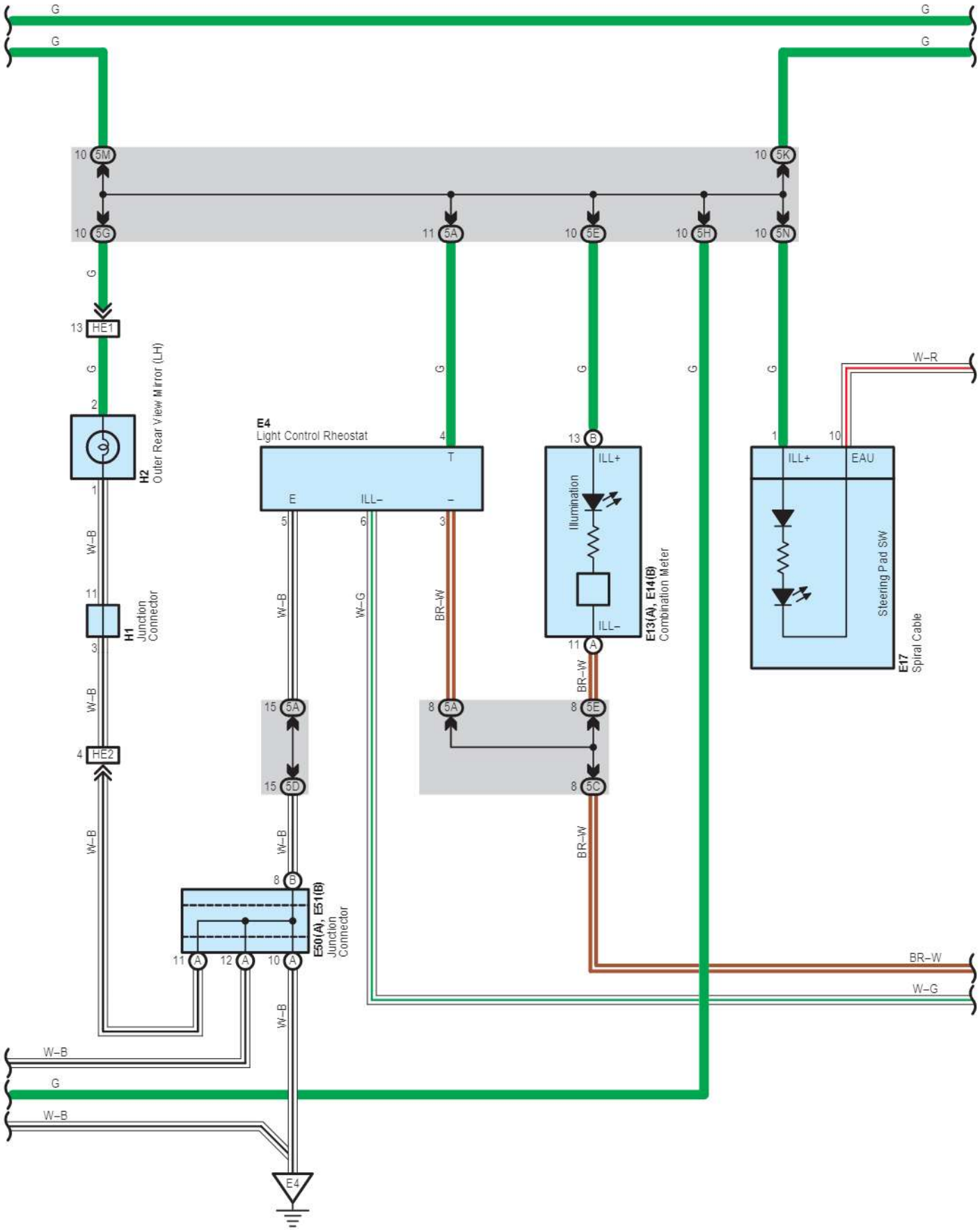
Code	See Page	Ground Points Location
E1	51	Instrument Panel Brace RH
E4	51	Left Kick Panel
E5	51	Right Kick Panel
I1	52	Access Door RH
J1	52	Access Door LH
K1	52	Floor Seat Crossmember RH
L1	52	Floor Seat Crossmember LH
L2	52	Left Quarter Panel

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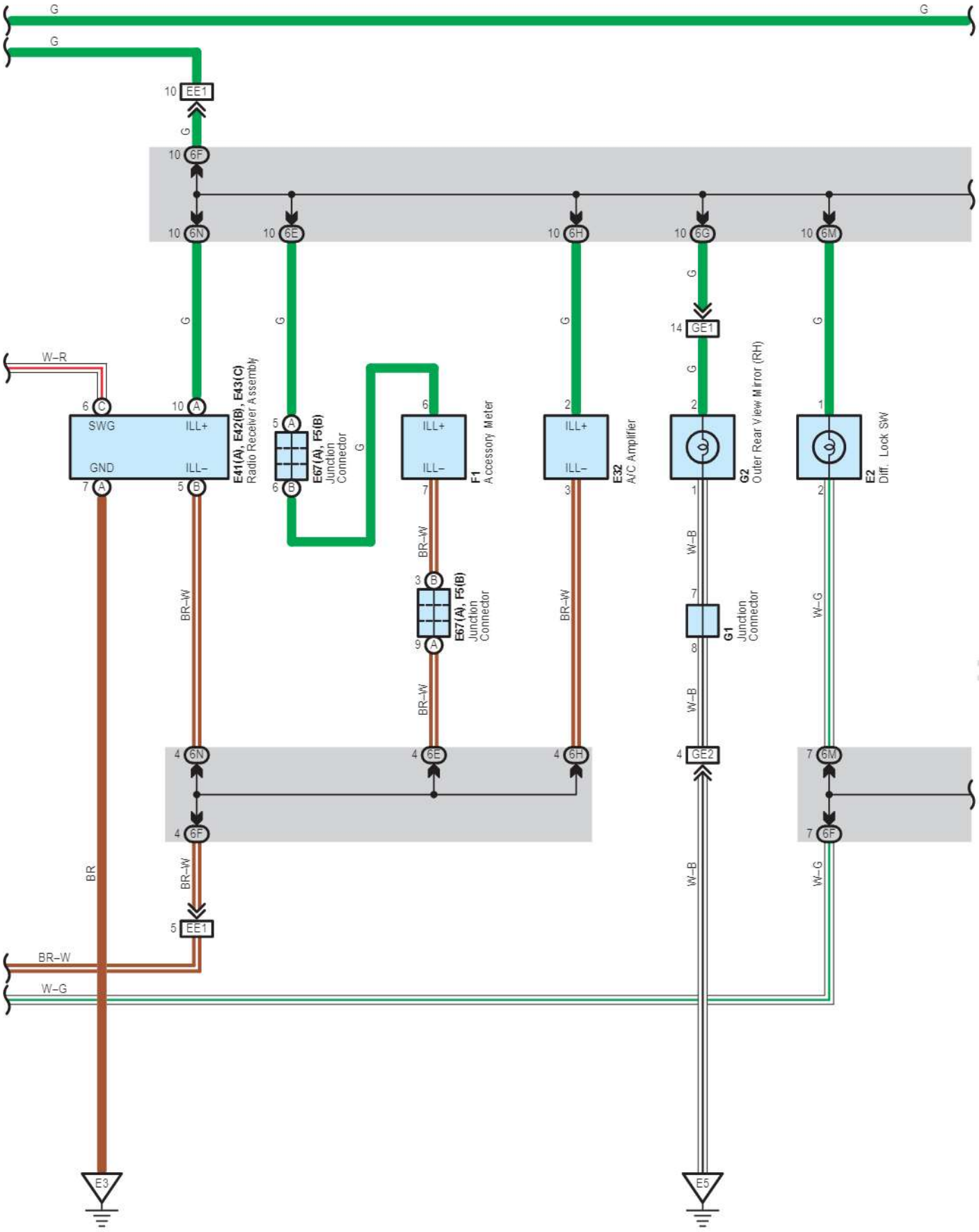
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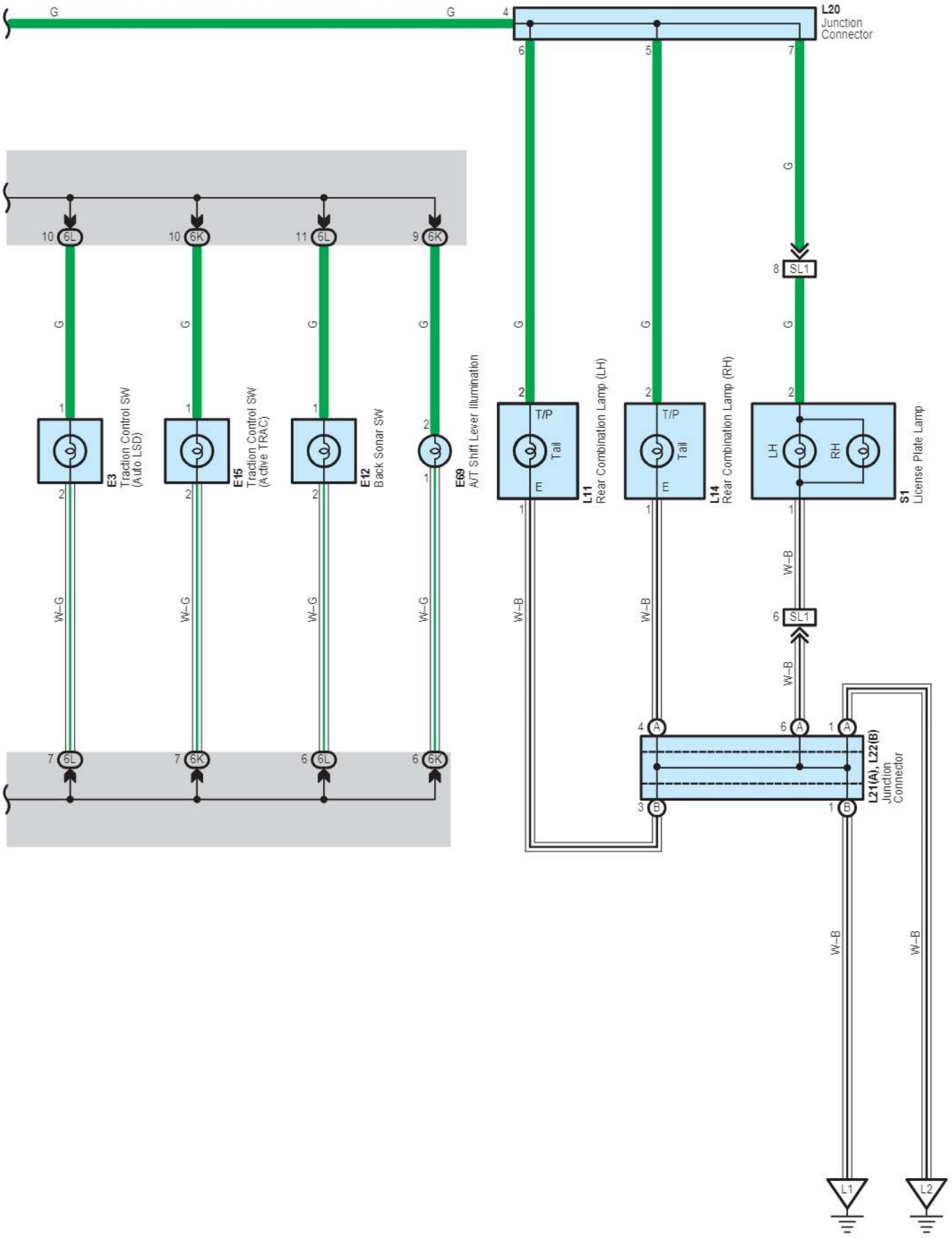
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Taillight and Illumination

○ : Parts Location

Code	See Page	Code	See Page	Code	See Page
A16	38	E17	42	F5 B	45
A20	38	E20	42	G1	47
E2	42	E32	43	G2	47
E3	42	E41 A	43	H1	47
E4	42	E42 B	43	H2	47
E6 A	42	E43 C	43	L11	46
E8 C	42	E50 A	44	L14	46
E12	42	E51 B	44	L20	46
E13 A	42	E67 A	44	L21 A	46
E14 B	42	E69	44	L22 B	46
E15	42	F1	45	S1	47

⬭ : Relay Blocks

Code	See Page	Relay Blocks (Relay Block Location)
2	22	Engine Room R/B No.2 (Engine Compartment Left)

⬭ : Junction Block and Wire Harness Connector

Code	See Page	Junction Block and Wire Harness (Connector Location)
1B	24	Engine Room Main Wire and Driver Side J/B (Lower Finish Panel)
1C		
1F	24	Floor No.2 Wire and Driver Side J/B (Lower Finish Panel)
1H	25	Instrument Panel Wire and Driver Side J/B (Lower Finish Panel)
1L		
5A	28	Instrument Panel Wire and Center J/B LH (Instrument Panel LH)
5C		
5D		
5E		
5G		
5H		
5K		
5M		
5N		
6E	32	Instrument Panel Wire and Center J/B RH (Instrument Panel RH)
6F		
6G		
6H		
6K		
6L		
6M		
6N		

▭ : Connector Joining Wire Harness and Wire Harness

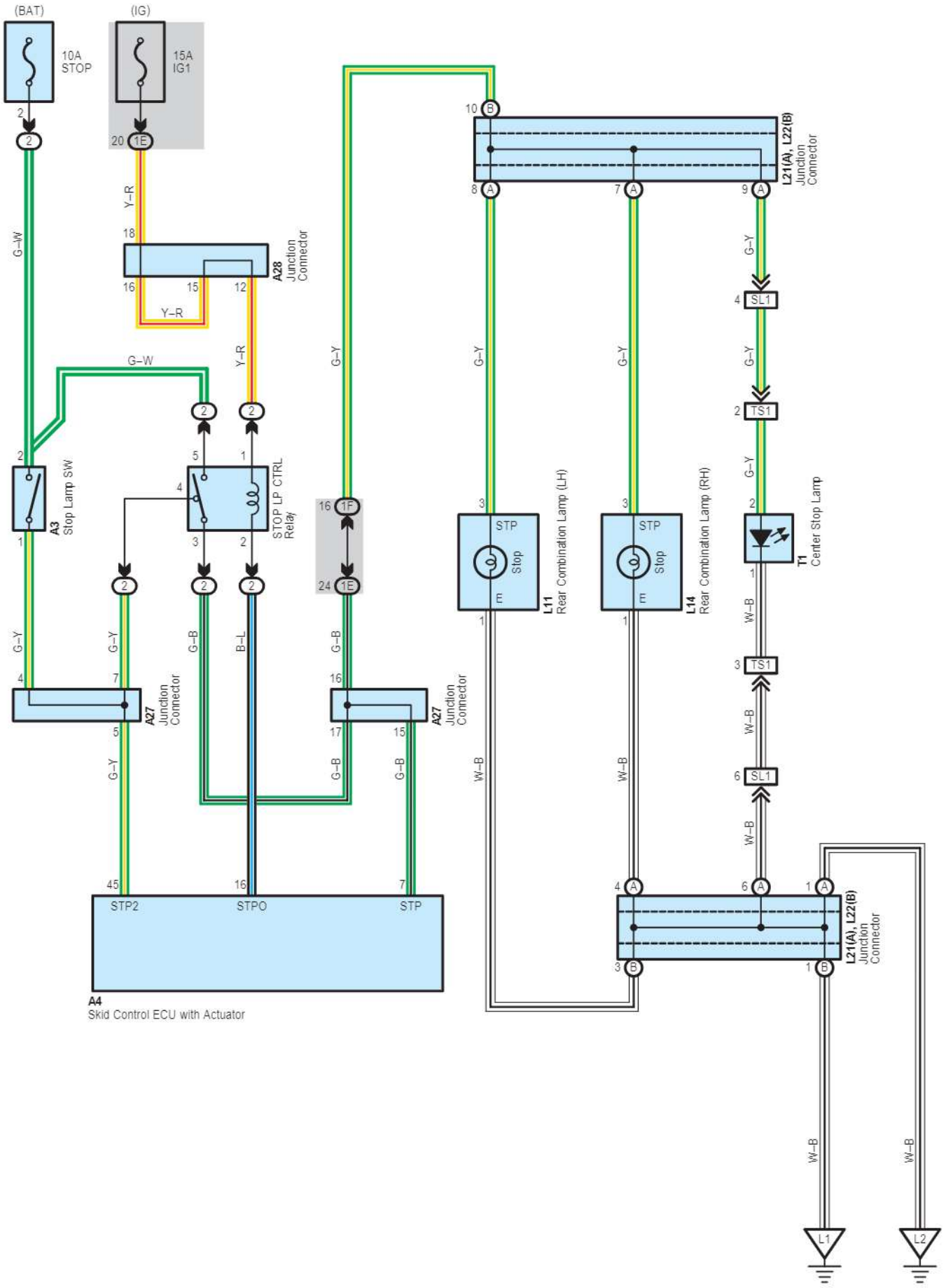
Code	See Page	Joining Wire Harness and Wire Harness (Connector Location)
EE1	51	Instrument Panel Wire and Instrument Panel Wire (Instrument Panel RH)
GE1	51	Front Door RH Wire and Instrument Panel Wire (Right Kick Panel)
GE2		
HE1	51	Front Door LH Wire and Instrument Panel Wire (Left Kick Panel)
HE2		
SL1	52	Back Door No.1 Wire and Floor No.2 Wire (Left Quarter Panel)

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▽ : **Ground Points**

Code	See Page	Ground Points Location
A1	50	Left Fender Apron
A2	50	Right Fender Apron
E3	51	Instrument Panel Brace RH
E4	51	Left Kick Panel
E5	51	Right Kick Panel
L1	52	Floor Seat Crossmember LH
L2	52	Left Quarter Panel

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: Parts Location

Code	See Page	Code	See Page	Code		See Page
A3	45	A28	38	L21	A	46
A4	38	L11	46	L22	B	46
A27	45	L14	46	T1		47

: Relay Blocks

Code	See Page	Relay Blocks (Relay Block Location)
2	22	Engine Room R/B No.2 (Engine Compartment Left)

: Junction Block and Wire Harness Connector

Code	See Page	Junction Block and Wire Harness (Connector Location)
1E	24	Engine Room Main Wire and Driver Side J/B (Lower Finish Panel)
1F	24	Floor No.2 Wire and Driver Side J/B (Lower Finish Panel)

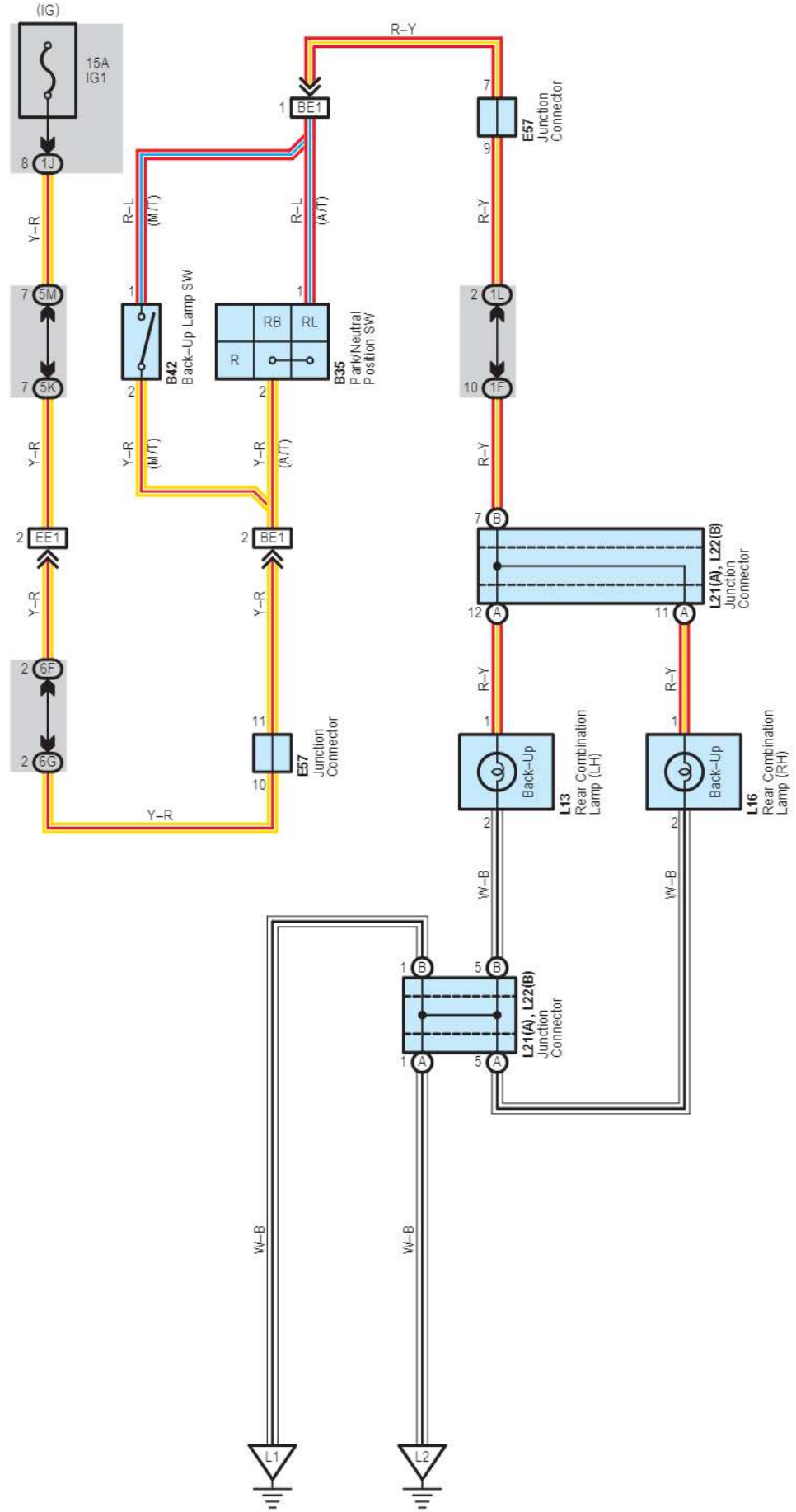
: Connector Joining Wire Harness and Wire Harness

Code	See Page	Joining Wire Harness and Wire Harness (Connector Location)
SL1	52	Back Door No.1 Wire and Floor No.2 Wire (Left Quarter Panel)
TS1	52	Back Door No.2 Wire and Back Door No.1 Wire (Left Side of Back Door)

: Ground Points

Code	See Page	Ground Points Location
L1	52	Floor Seat Crossmember LH
L2	52	Left Quarter Panel

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○ : Parts Location

Code	See Page	Code	See Page	Code	See Page
B35	40	L13	46	L22 B	46
B42	40	L16	46		
E57	44	L21 A	46		

⬭ : Junction Block and Wire Harness Connector

Code	See Page	Junction Block and Wire Harness (Connector Location)
1F	24	Floor No.2 Wire and Driver Side J/B (Lower Finish Panel)
1J	25	Instrument Panel Wire and Driver Side J/B (Lower Finish Panel)
1L		
5K	28	Instrument Panel Wire and Center J/B LH (Instrument Panel LH)
5M		
6F	32	Instrument Panel Wire and Center J/B RH (Instrument Panel RH)
6G		

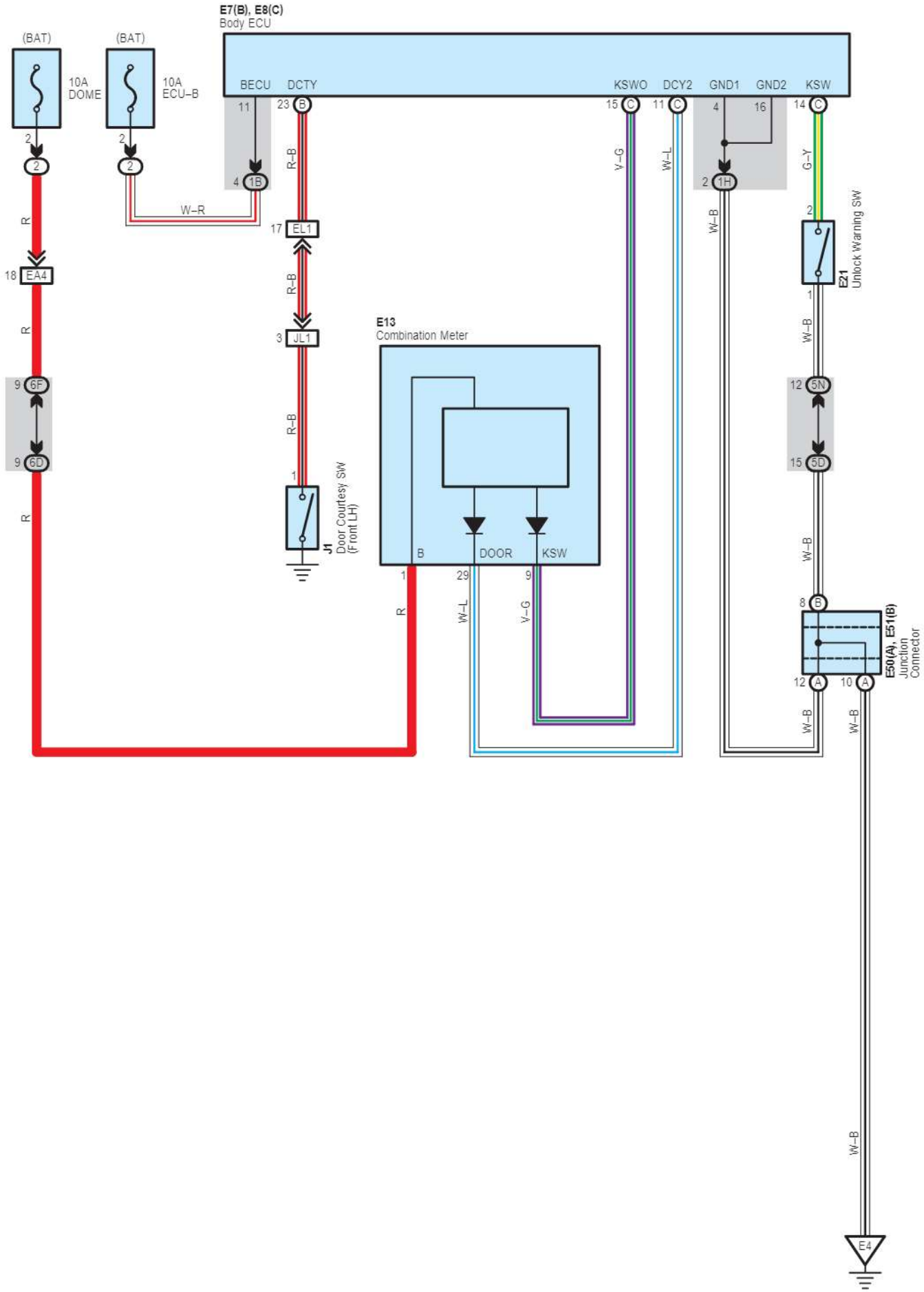
▭ : Connector Joining Wire Harness and Wire Harness

Code	See Page	Joining Wire Harness and Wire Harness (Connector Location)
BE1	51	Engine Wire and Instrument Panel Wire (Upper the Glove Box)
EE1	51	Instrument Panel Wire and Instrument Panel Wire (Instrument Panel RH)

▽ : Ground Points

Code	See Page	Ground Points Location
L1	52	Floor Seat Crossmember LH
L2	52	Left Quarter Panel

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System Outline

With the ignition key inserted in the key cylinder (Unlock warning SW on), the ignition SW still off and driver's door open (Door courtesy SW on), when a signal is input to the combination meter, the combination meter operates key reminder buzzer sounds.

○ : Parts Location

Code		See Page	Code		See Page	Code	See Page
E7	B	42	E21		42	J1	47
E8	C	42	E50	A	44		
E13		42	E51	B	44		

⬭ : Relay Blocks

Code	See Page	Relay Blocks (Relay Block Location)
2	22	Engine Room R/B No.2 (Engine Compartment Left)

⬭ : Junction Block and Wire Harness Connector

Code	See Page	Junction Block and Wire Harness (Connector Location)
1B	24	Engine Room Main Wire and Driver Side J/B (Lower Finish Panel)
1H	25	Instrument Panel Wire and Driver Side J/B (Lower Finish Panel)
5D	28	Instrument Panel Wire and Center J/B LH (Instrument Panel LH)
5N		
6D	32	Instrument Panel Wire and Center J/B RH (Instrument Panel RH)
6F		

▭ : Connector Joining Wire Harness and Wire Harness

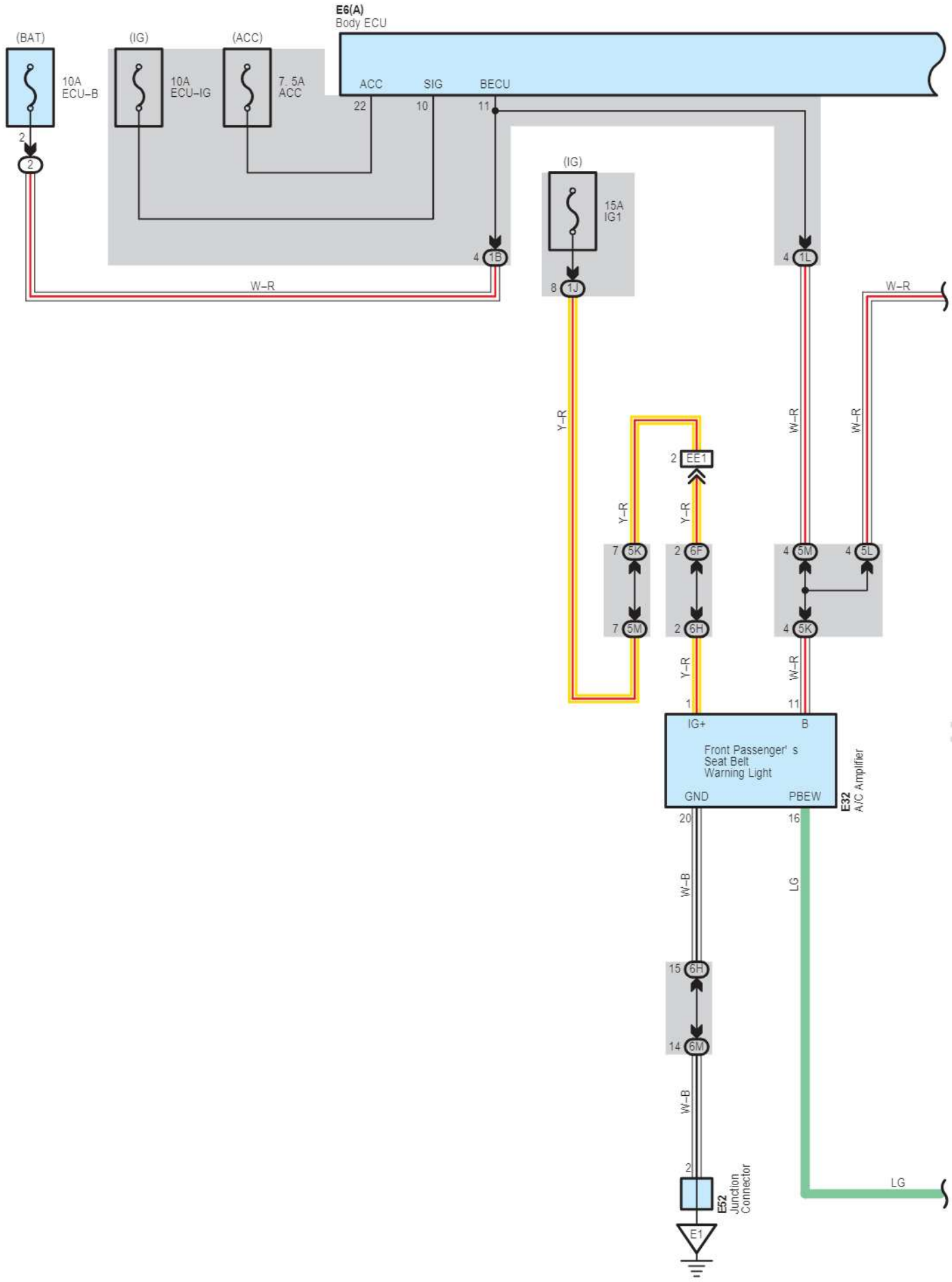
Code	See Page	Joining Wire Harness and Wire Harness (Connector Location)
EA4	51	Instrument Panel Wire and Engine Room Main Wire (Left Kick Panel)
EL1	51	Instrument Panel Wire and Floor No.2 Wire (Left Kick Panel)
JL1	52	Rear Door No.2 Wire and Floor No.2 Wire (Left Quarter Panel)

▽ : Ground Points

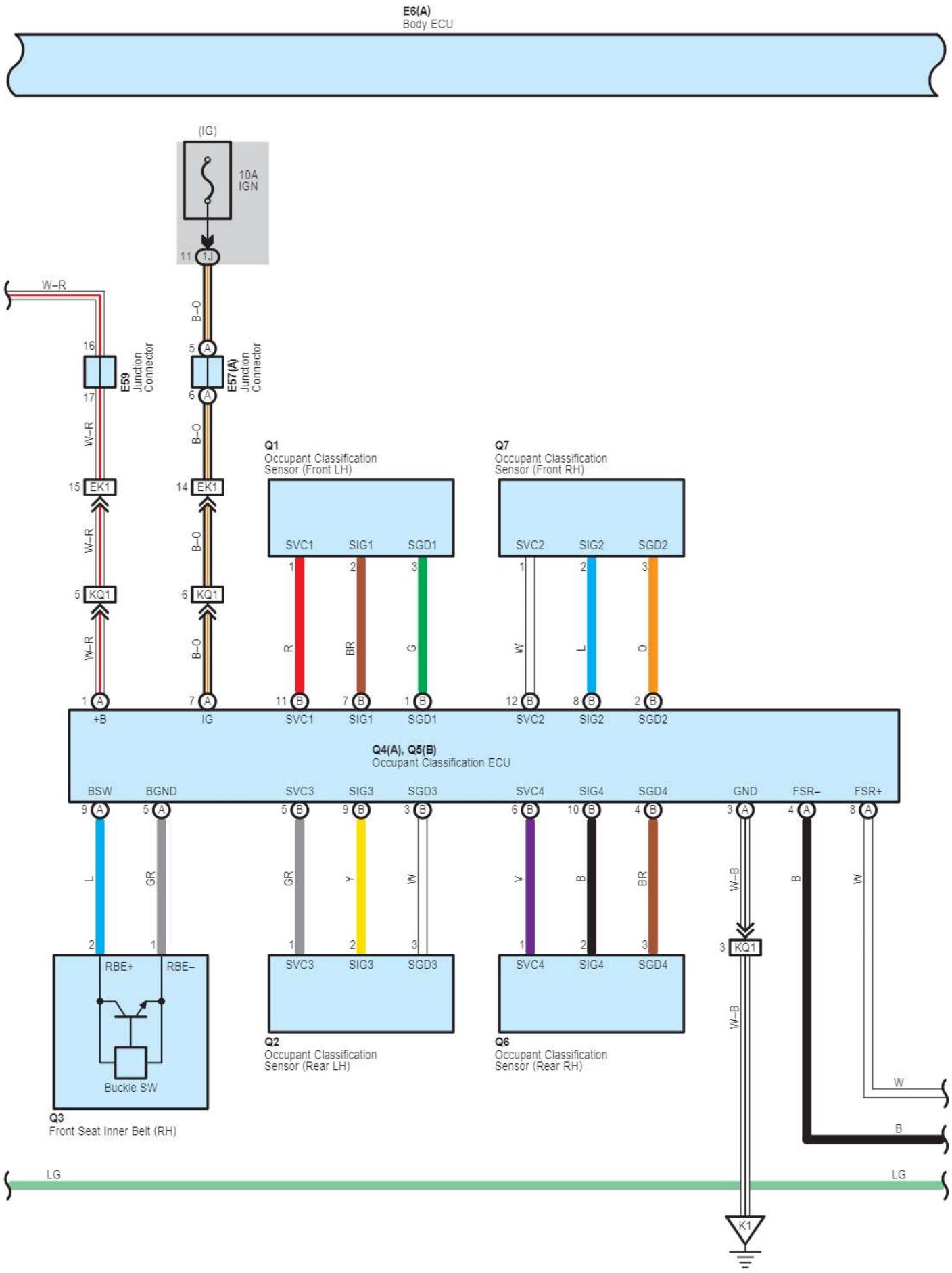
Code	See Page	Ground Points Location
E4	51	Left Kick Panel

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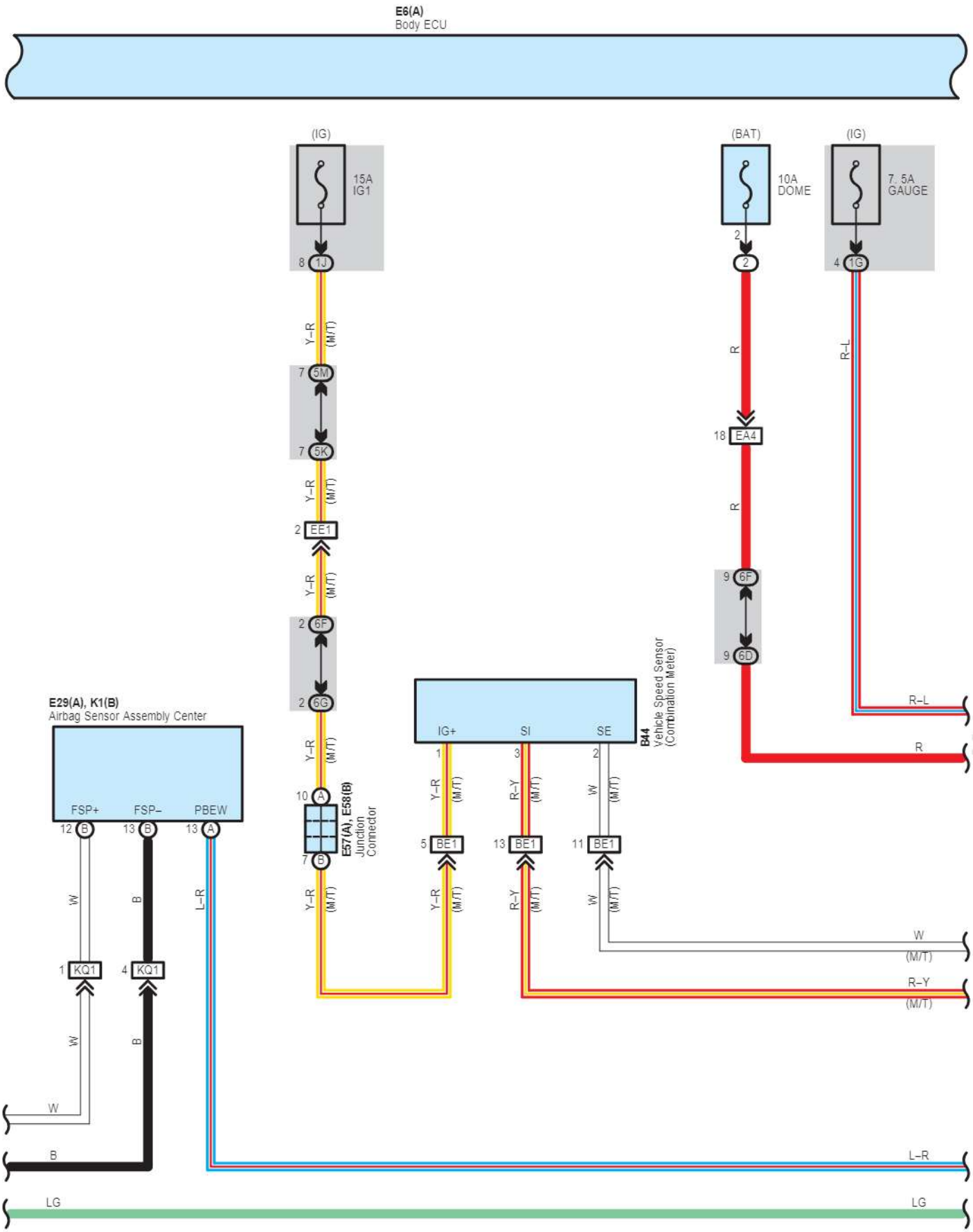
Seat Belt Warning



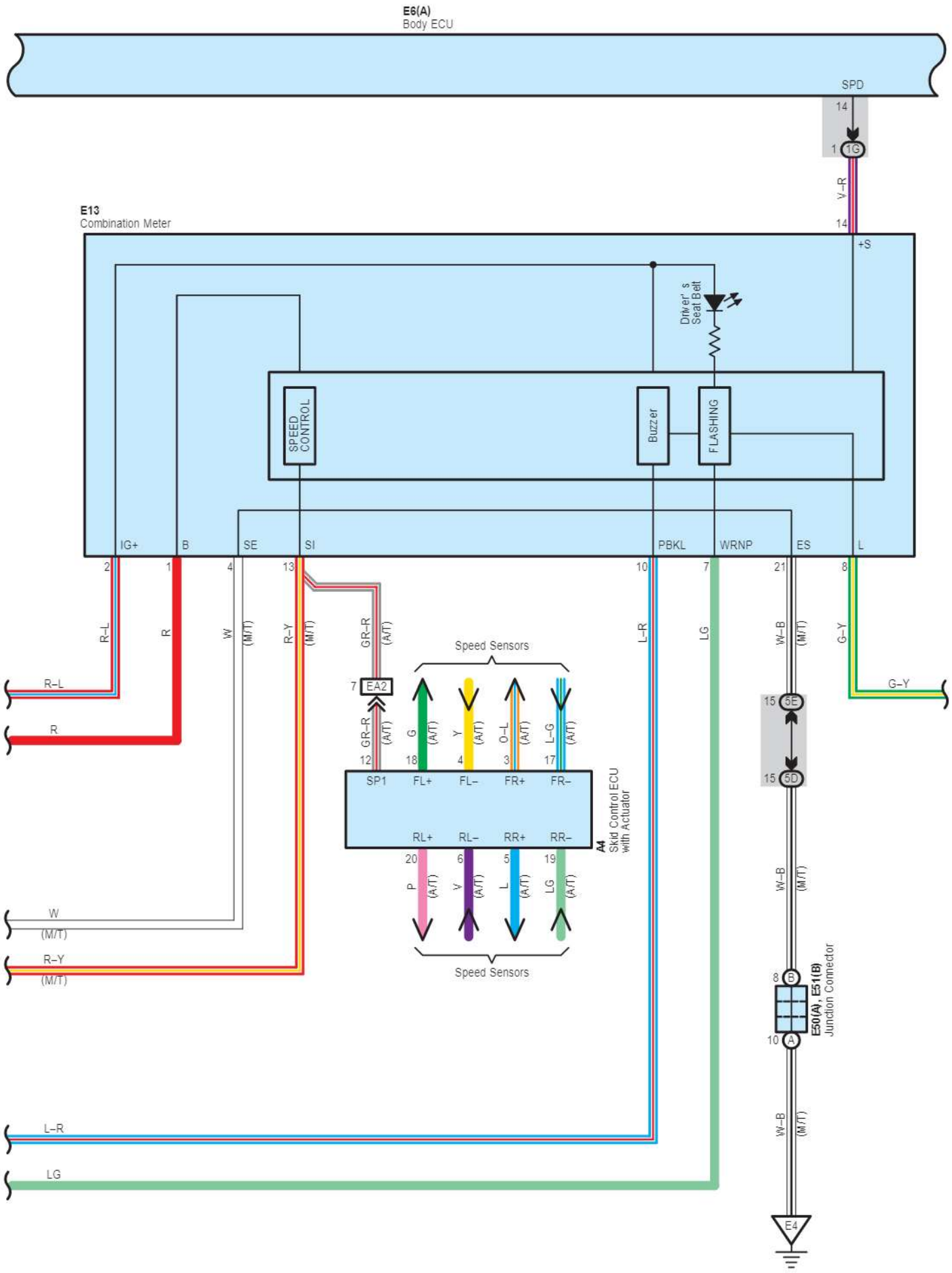
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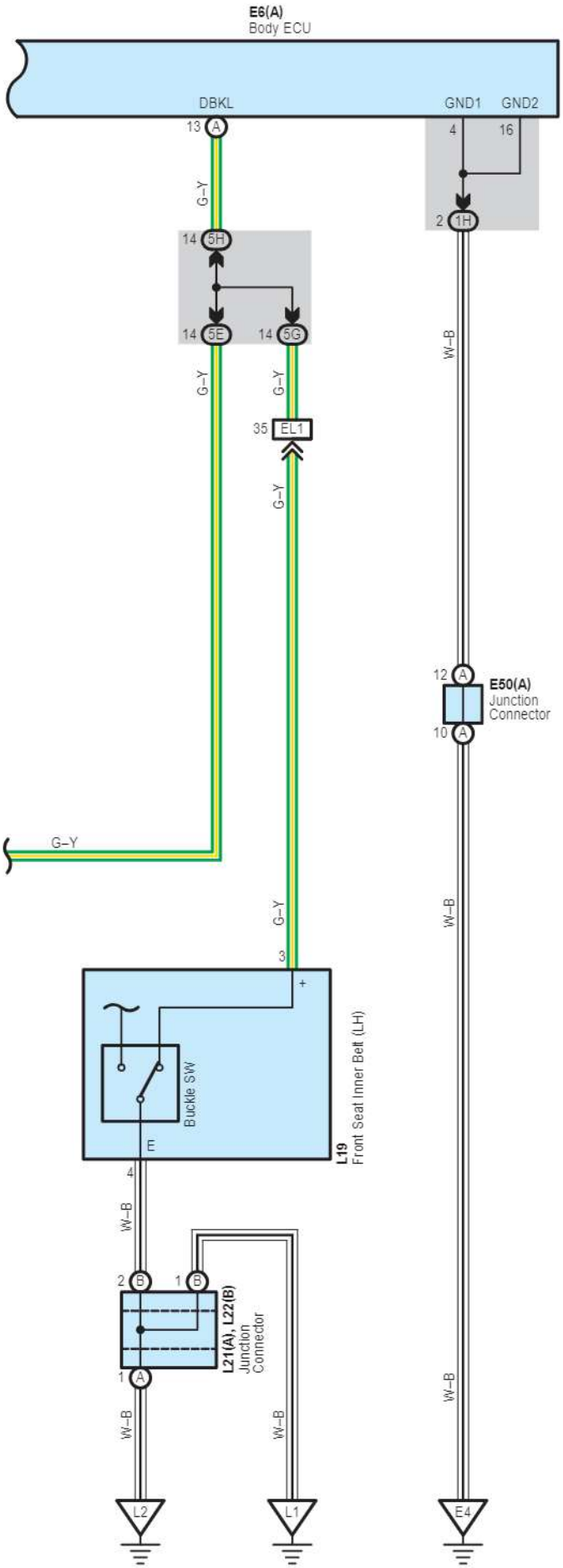
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System Outline

When the driver has not fastened the seat belt while the ignition SW is ON, the driver seat belt warning light blinks, and a warning buzzer comes on.
Also, in the front passenger seat, a sensor recognizes passenger, and when the passenger has not fastened the seat belt, the front passenger seat belt warning light blinks.

: Parts Location

Code	See Page	Code	See Page	Code	See Page
A4	38	E52	44	Q1	48
B44	40	E57 A	44	Q2	48
E6 A	42	E58 B	44	Q3	48
E13	42	E59	44	Q4 A	48
E29 A	43	K1 B	45	Q5 B	48
E32	43	L19	48	Q6	48
E50 A	44	L21 A	46	Q7	48
E51 B	44	L22 B	46		

: Relay Blocks

Code	See Page	Relay Blocks (Relay Block Location)
2	22	Engine Room R/B No.2 (Engine Compartment Left)

: Junction Block and Wire Harness Connector

Code	See Page	Junction Block and Wire Harness (Connector Location)
1B	24	Engine Room Main Wire and Driver Side J/B (Lower Finish Panel)
1G	25	Instrument Panel Wire and Driver Side J/B (Lower Finish Panel)
1H		
1J		
1L		
5D	28	Instrument Panel Wire and Center J/B LH (Instrument Panel LH)
5E		
5G		
5H		
5K		
5L		
5M		
6D	32	Instrument Panel Wire and Center J/B RH (Instrument Panel RH)
6F		
6G		
6H		
6M		

: Connector Joining Wire Harness and Wire Harness

Code	See Page	Joining Wire Harness and Wire Harness (Connector Location)
BE1	51	Engine Wire and Instrument Panel Wire (Upper the Glove Box)
EA2	51	Instrument Panel Wire and Engine Room Main Wire (Left Kick Panel)
EA4		
EE1	51	Instrument Panel Wire and Instrument Panel Wire (Instrument Panel RH)
EK1	51	Instrument Panel Wire and Floor Wire (Right Kick Panel)
EL1	51	Instrument Panel Wire and Floor No.2 Wire (Left Kick Panel)
KQ1	53	Floor Wire and Seat No.1 Wire (Under the Front Seat RH)

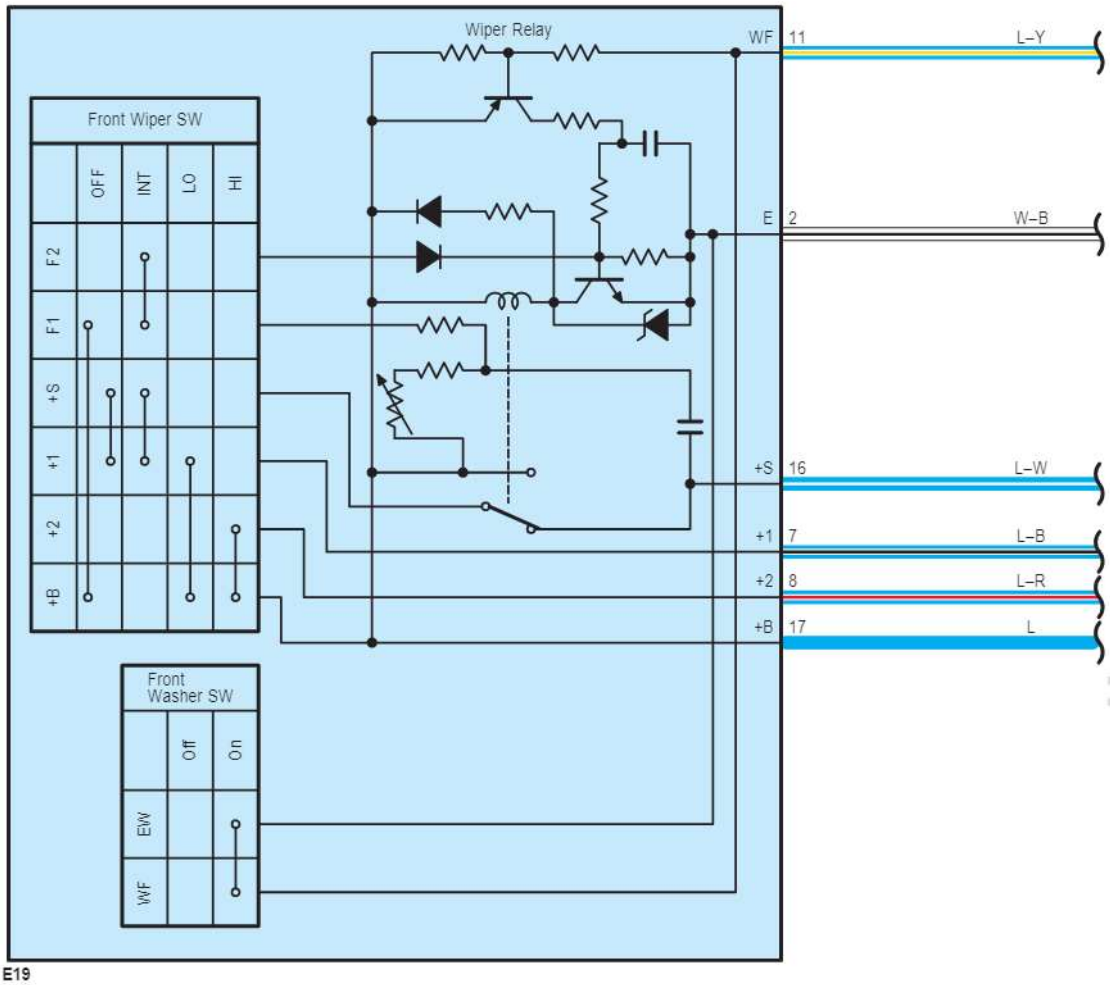
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▽ : **Ground Points**

Code	See Page	Ground Points Location
E1	51	Instrument Panel Brace RH
E4	51	Left Kick Panel
K1	52	Floor Seat Crossmember RH
L1	52	Floor Seat Crossmember LH
L2	52	Left Quarter Panel

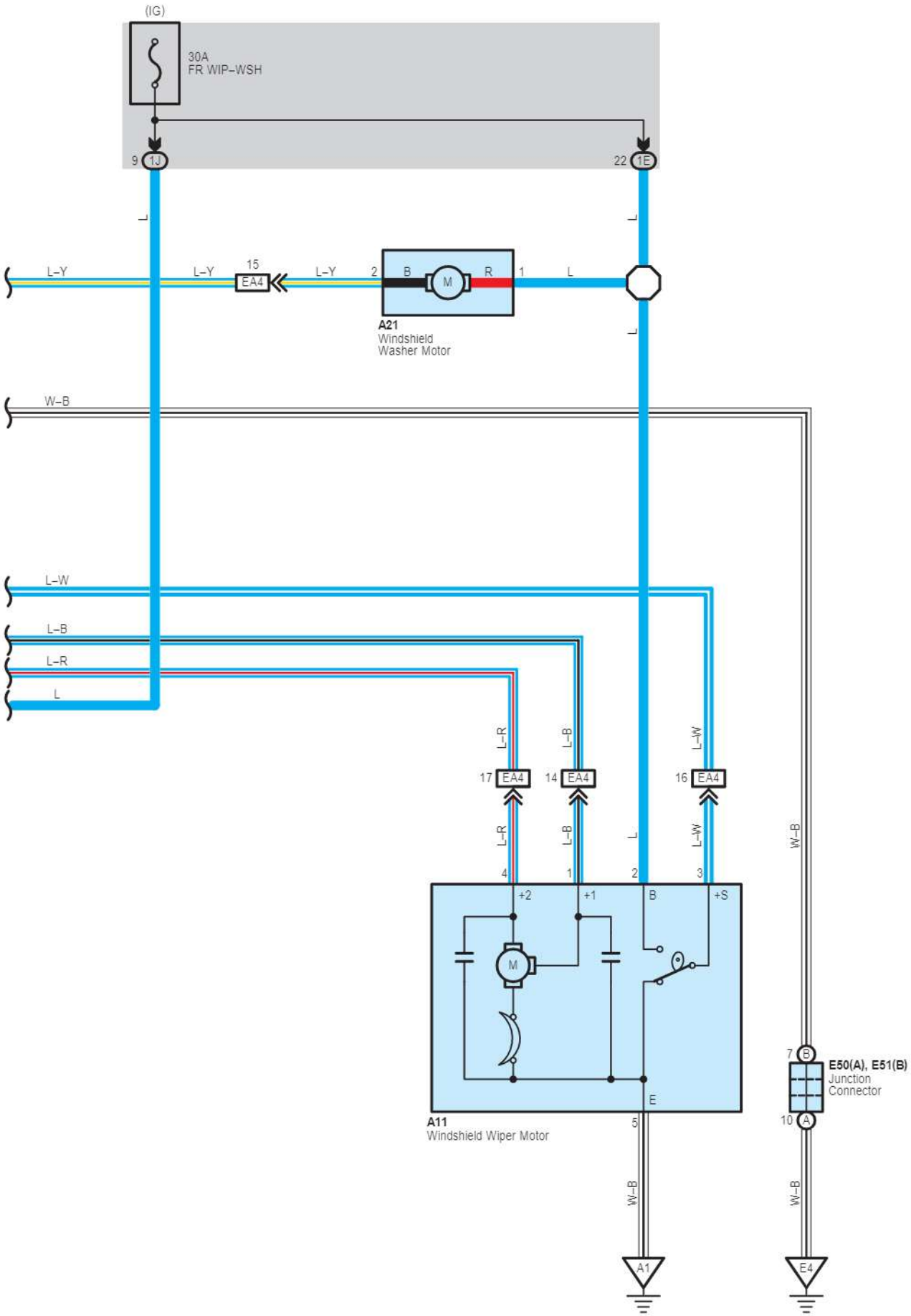
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E19
Windshield Wiper SW Assembly

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Front Wiper and Washer

○ : **Parts Location**

Code	See Page	Code	See Page	Code	See Page
A11	38	E19	42	E51 B	44
A21	38	E50 A	44		

⬭ : **Junction Block and Wire Harness Connector**

Code	See Page	Junction Block and Wire Harness (Connector Location)
1E	24	Engine Room Main Wire and Driver Side J/B (Lower Finish Panel)
1J	25	Instrument Panel Wire and Driver Side J/B (Lower Finish Panel)

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

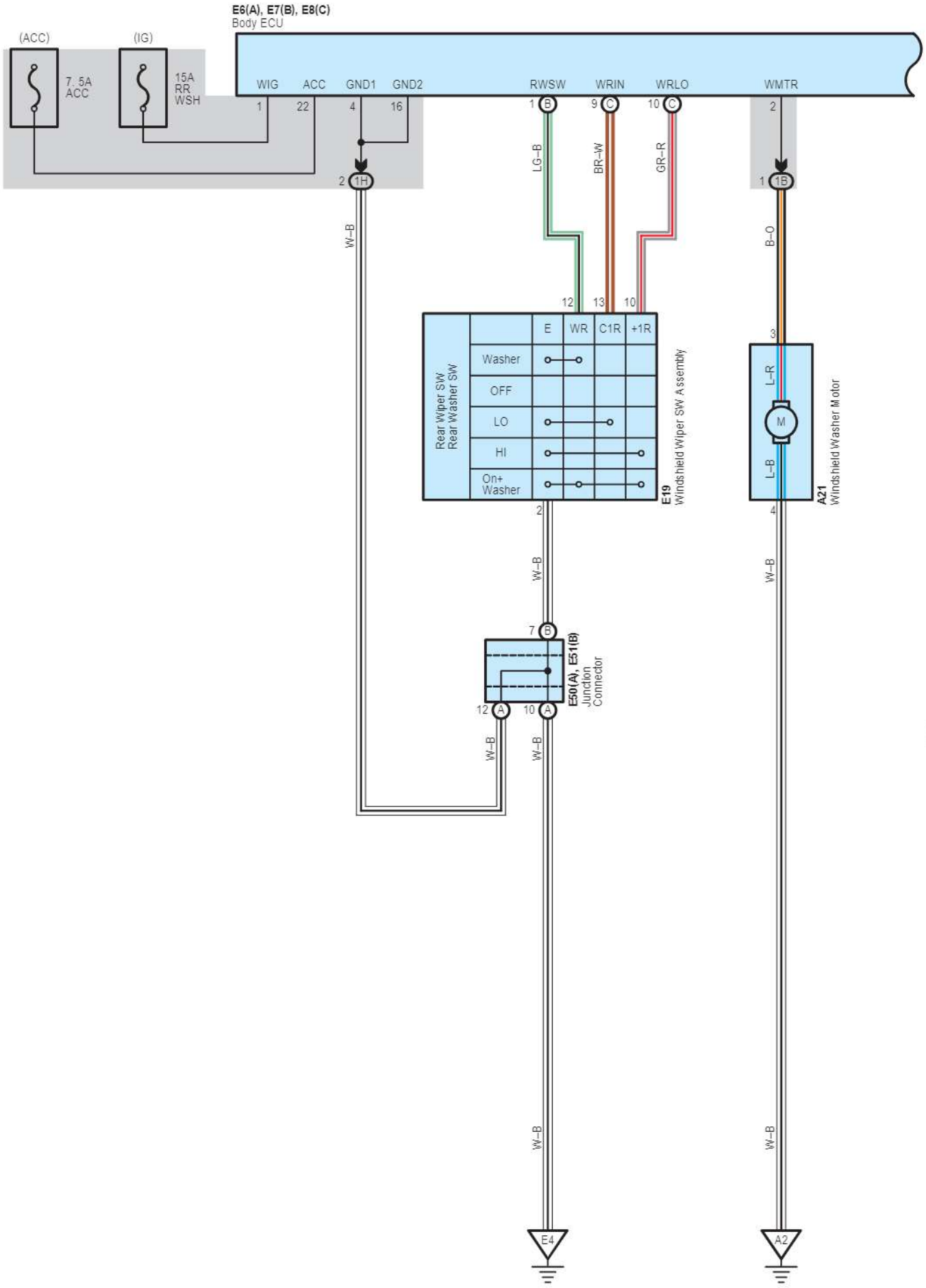
Code	See Page	Joining Wire Harness and Wire Harness (Connector Location)
EA4	51	Instrument Panel Wire and Engine Room Main Wire (Left Kick Panel)

▽ : **Ground Points**

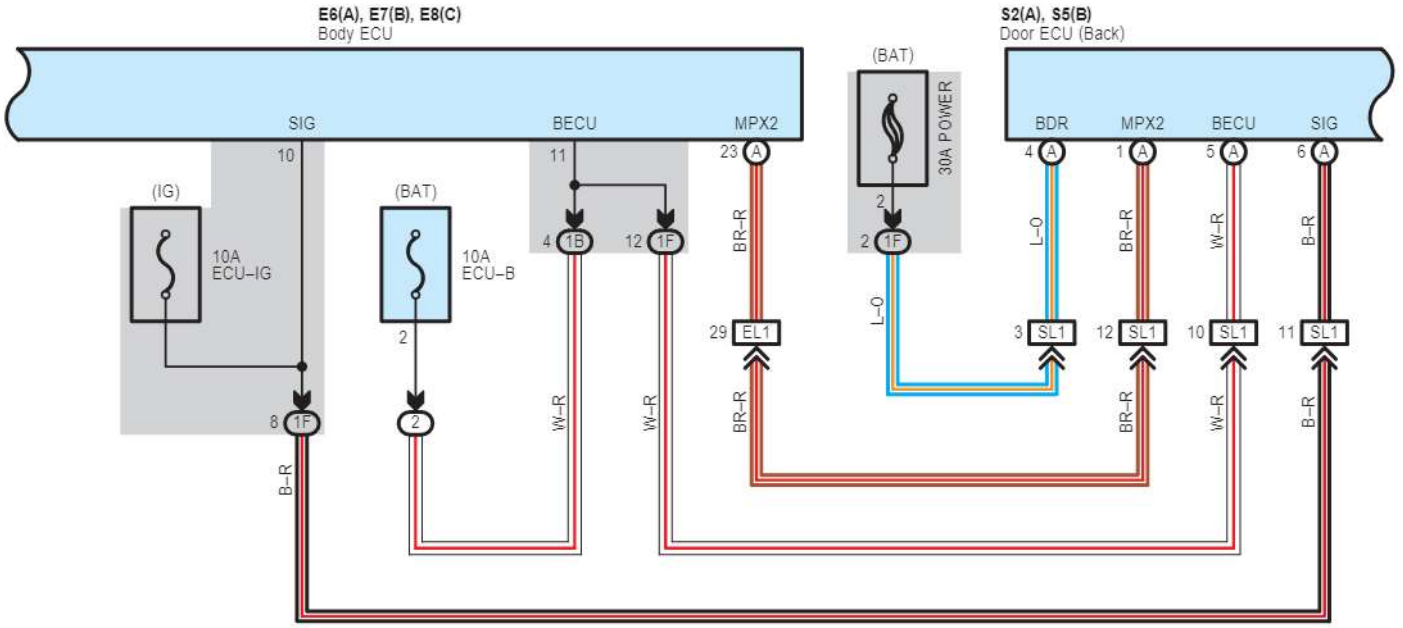
Code	See Page	Ground Points Location
A1	50	Left Fender Apron
E4	51	Left Kick Panel

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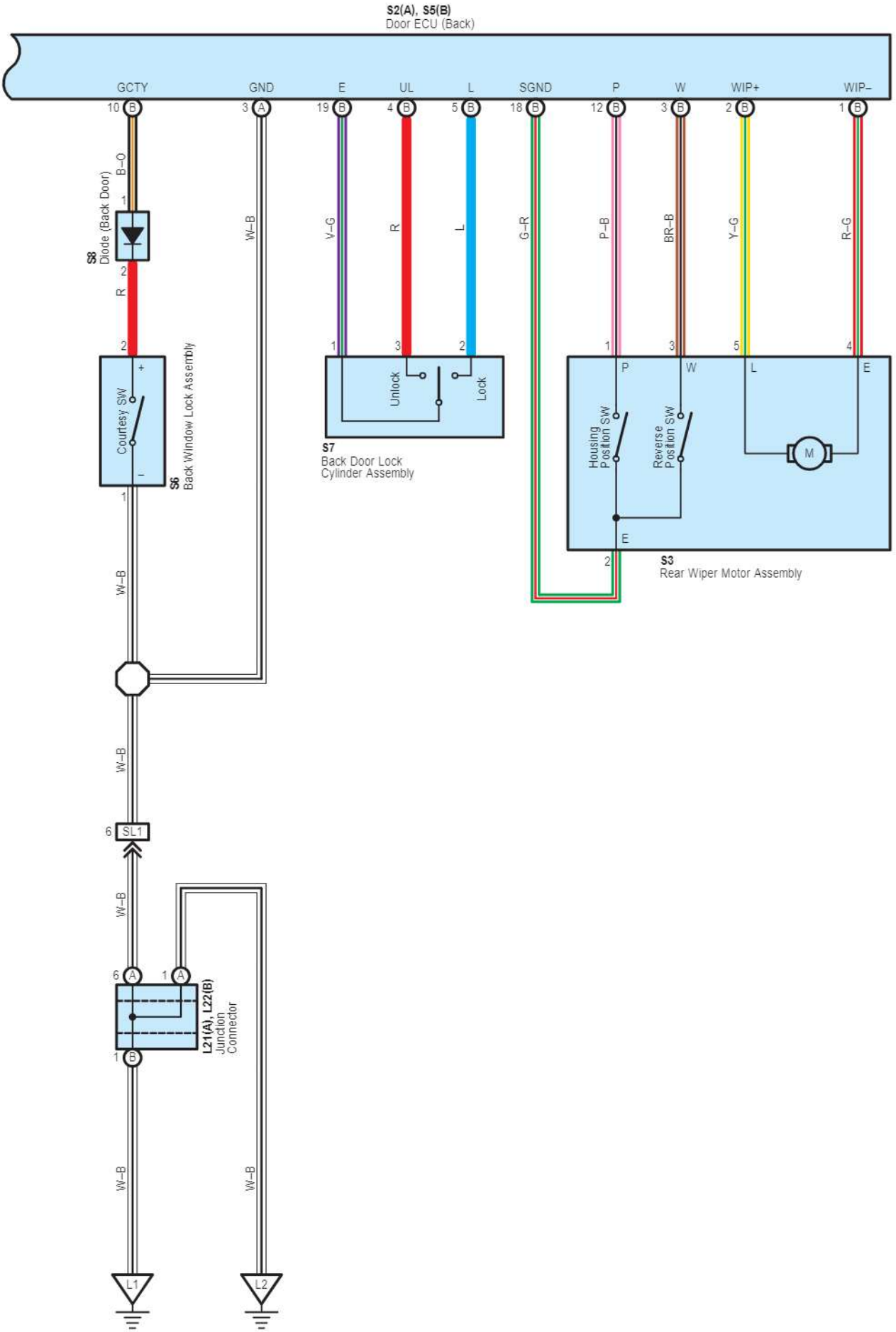
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System Outline

Rear Wiper Operation Conditions

When all the following conditions are satisfied, the rear wiper operates if the rear wiper SW is at LO or HI position.

(1) Ignition SW ON

(2) When the back door glass hatch is closed.

* When the back door glass hatch is open, the rear wiper control is prohibited.
* If the back door glass hatch is opened during working of the rear wiper, the rear wiper is retracted forcibly. The rear wiper control resumes 3 seconds after the glass hatch is closed.

: Parts Location

Code	See Page	Code	See Page	Code	See Page
A21	38	E50 A	44	S3	47
E6 A	42	E51 B	44	S5 B	47
E7 B	42	L21 A	46	S6	47
E8 C	42	L22 B	46	S7	47
E19	42	S2 A	47	S8	47

: Relay Blocks

Code	See Page	Relay Blocks (Relay Block Location)
2	22	Engine Room R/B No.2 (Engine Compartment Left)

: Junction Block and Wire Harness Connector

Code	See Page	Junction Block and Wire Harness (Connector Location)
1B	24	Engine Room Main Wire and Driver Side J/B (Lower Finish Panel)
1F	24	Floor No.2 Wire and Driver Side J/B (Lower Finish Panel)
1H	25	Instrument Panel Wire and Driver Side J/B (Lower Finish Panel)

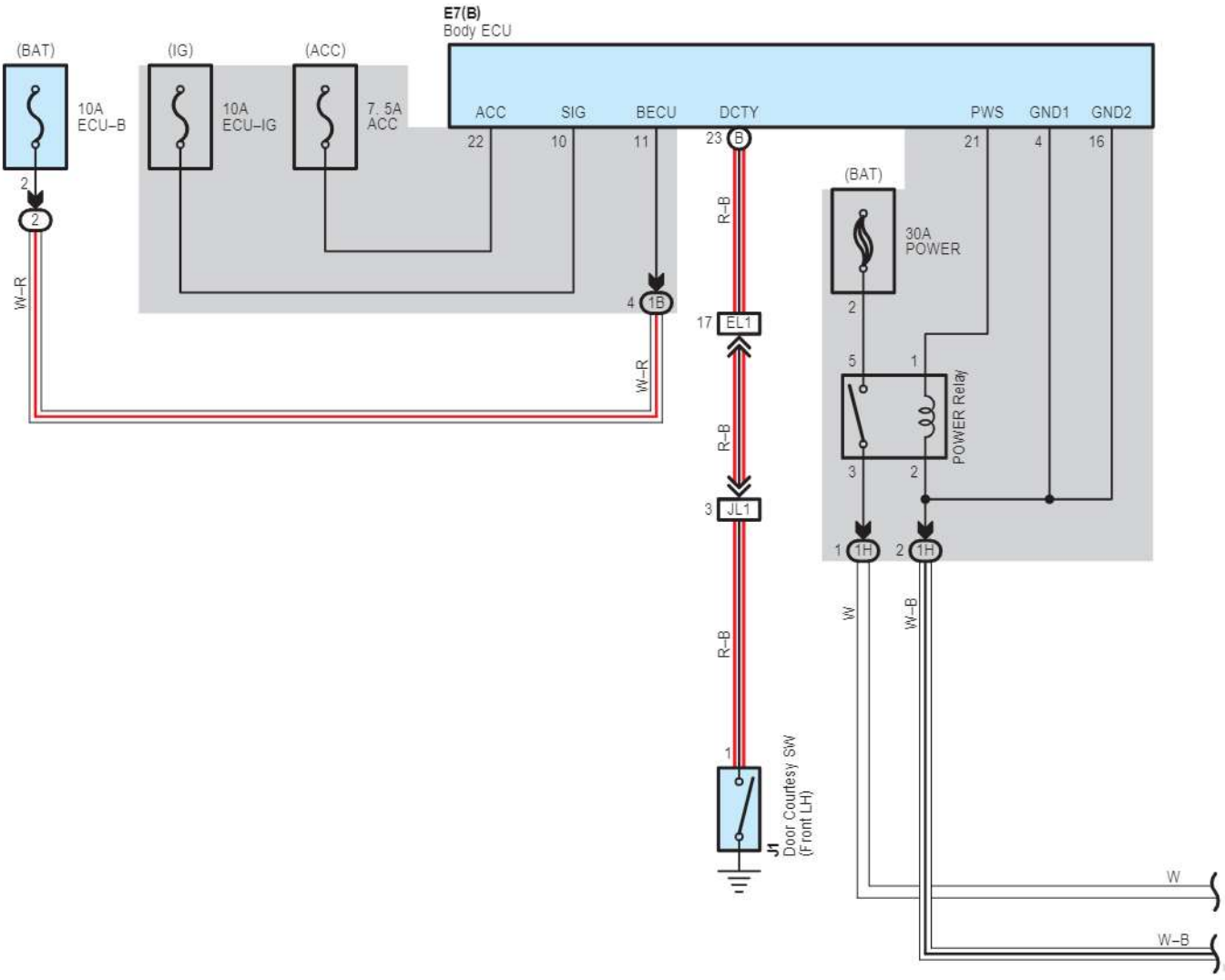
: Connector Joining Wire Harness and Wire Harness

Code	See Page	Joining Wire Harness and Wire Harness (Connector Location)
EL1	51	Instrument Panel Wire and Floor No.2 Wire (Left Kick Panel)
SL1	52	Back Door No.1 Wire and Floor No.2 Wire (Left Quarter Panel)

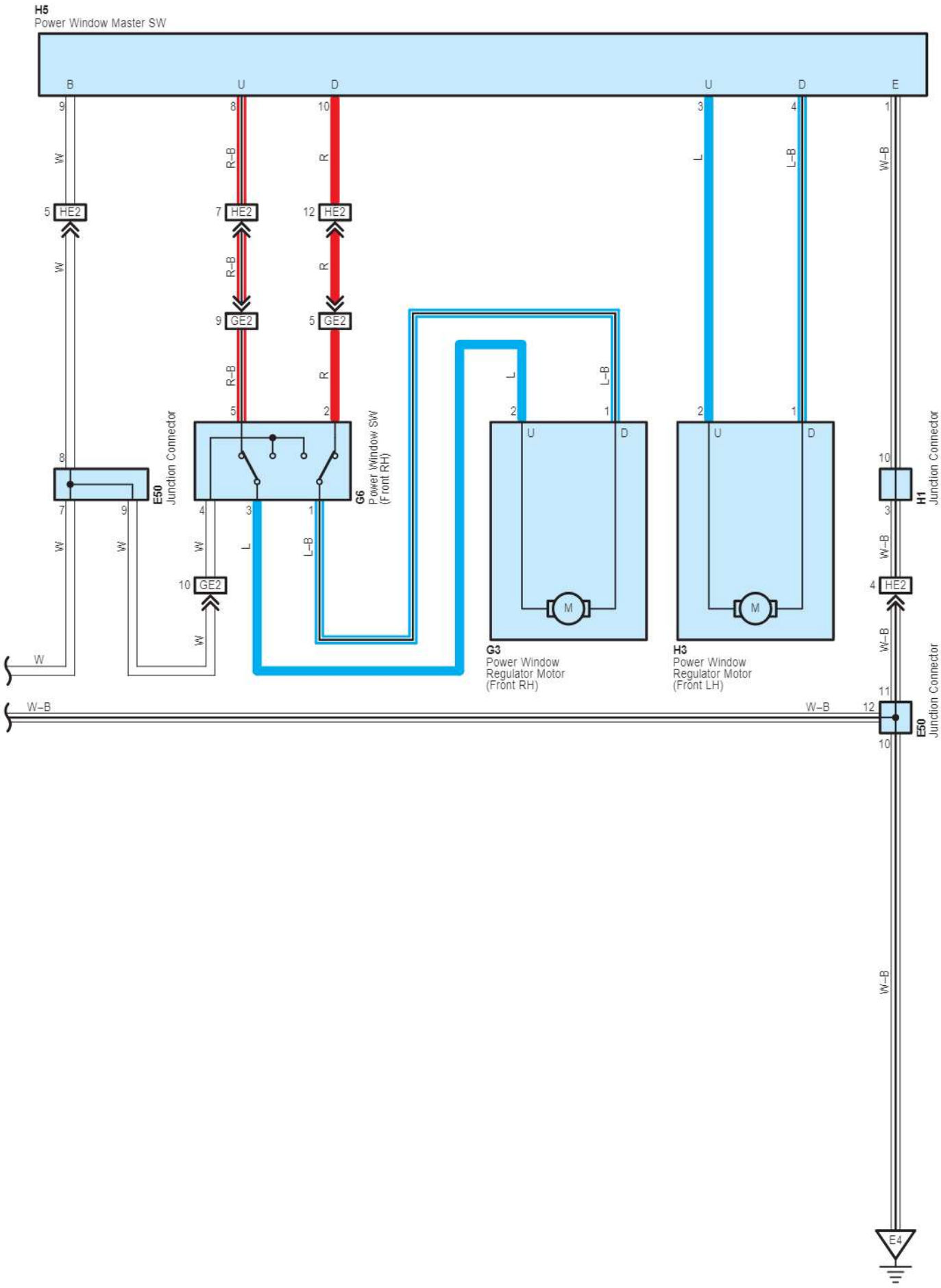
: Ground Points

Code	See Page	Ground Points Location
A2	50	Right Fender Apron
E4	51	Left Kick Panel
L1	52	Floor Seat Crossmember LH
L2	52	Left Quarter Panel

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Power Window

○ : **Parts Location**

Code	See Page	Code	See Page	Code	See Page
E7 B	42	G3	47	H3	47
E21	42	G6	47	H5	47
E50	44	H1	47	J1	47

⬭ : **Relay Blocks**

Code	See Page	Relay Blocks (Relay Block Location)
2	22	Engine Room R/B No.2 (Engine Compartment Left)

⬭ : **Junction Block and Wire Harness Connector**

Code	See Page	Junction Block and Wire Harness (Connector Location)
1B	24	Engine Room Main Wire and Driver Side J/B (Lower Finish Panel)
1H	25	Instrument Panel Wire and Driver Side J/B (Lower Finish Panel)
5D	28	Instrument Panel Wire and Center J/B LH (Instrument Panel LH)
5N		

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

Code	See Page	Joining Wire Harness and Wire Harness (Connector Location)
EL1	51	Instrument Panel Wire and Floor No.2 Wire (Left Kick Panel)
GE2	51	Front Door RH Wire and Instrument Panel Wire (Right Kick Panel)
HE2	51	Front Door LH Wire and Instrument Panel Wire (Left Kick Panel)
JL1	52	Rear Door No.2 Wire and Floor No.2 Wire (Left Quarter Panel)

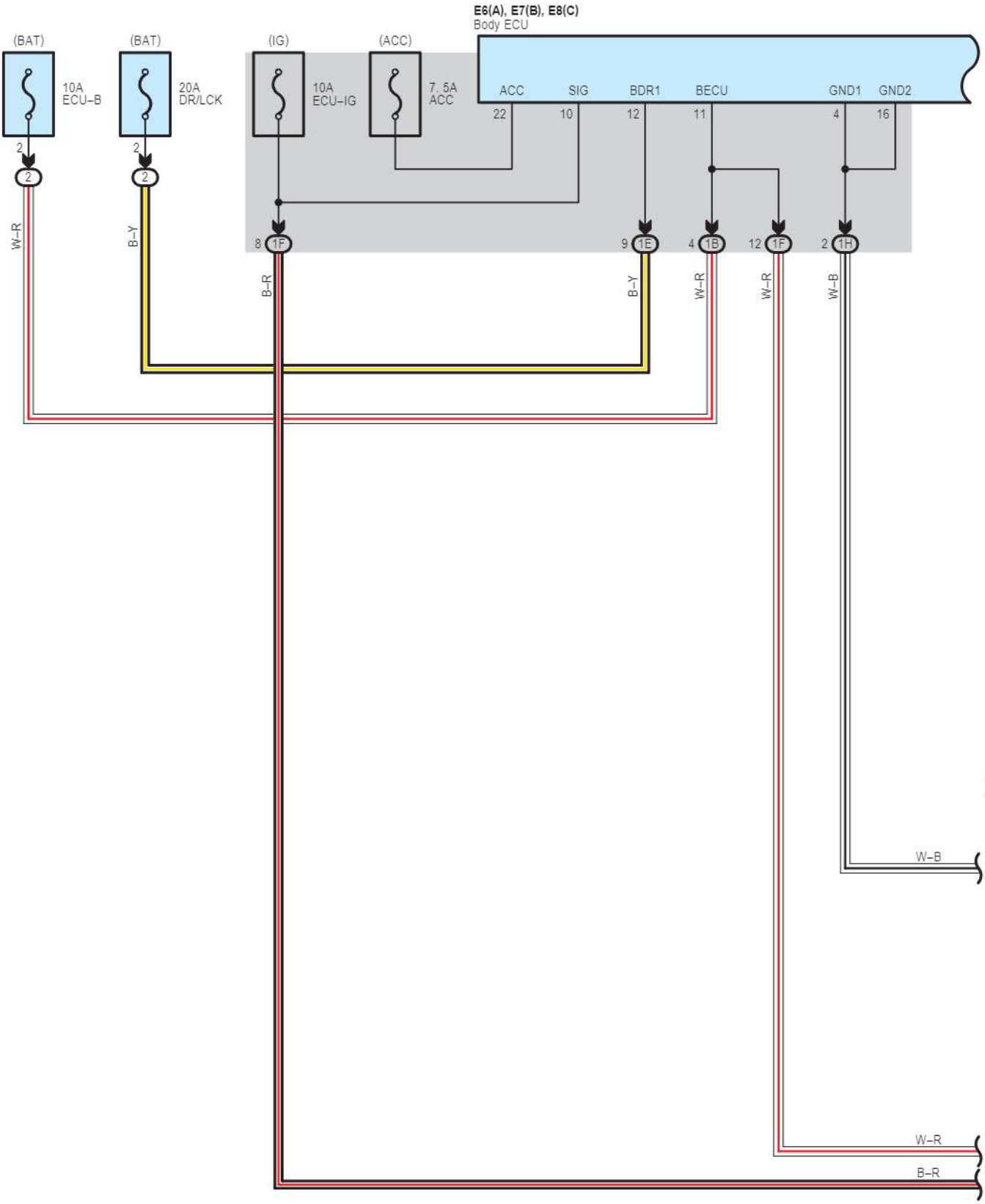
▽ : **Ground Points**

Code	See Page	Ground Points Location
E4	51	Left Kick Panel

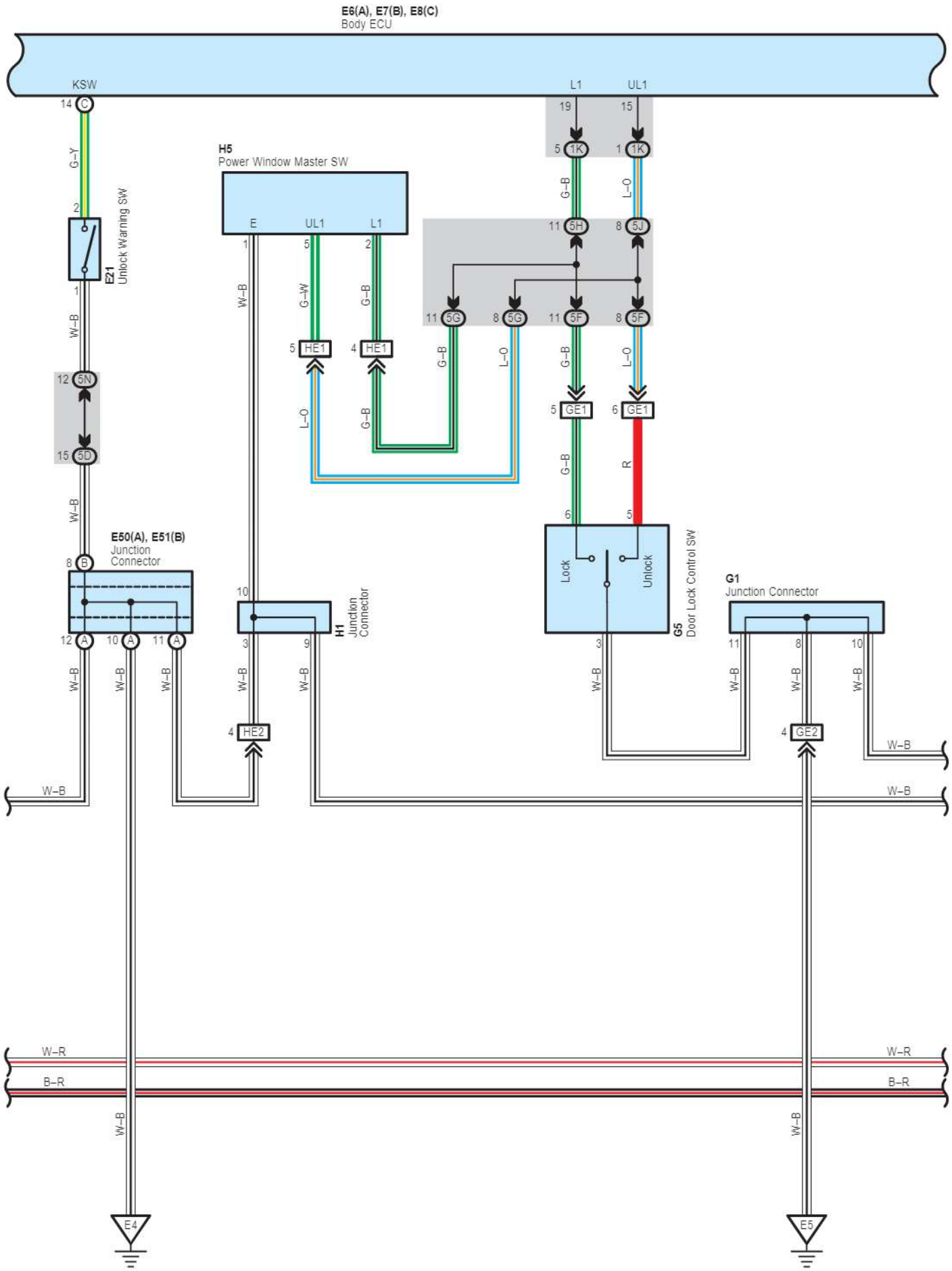
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Door Lock Control

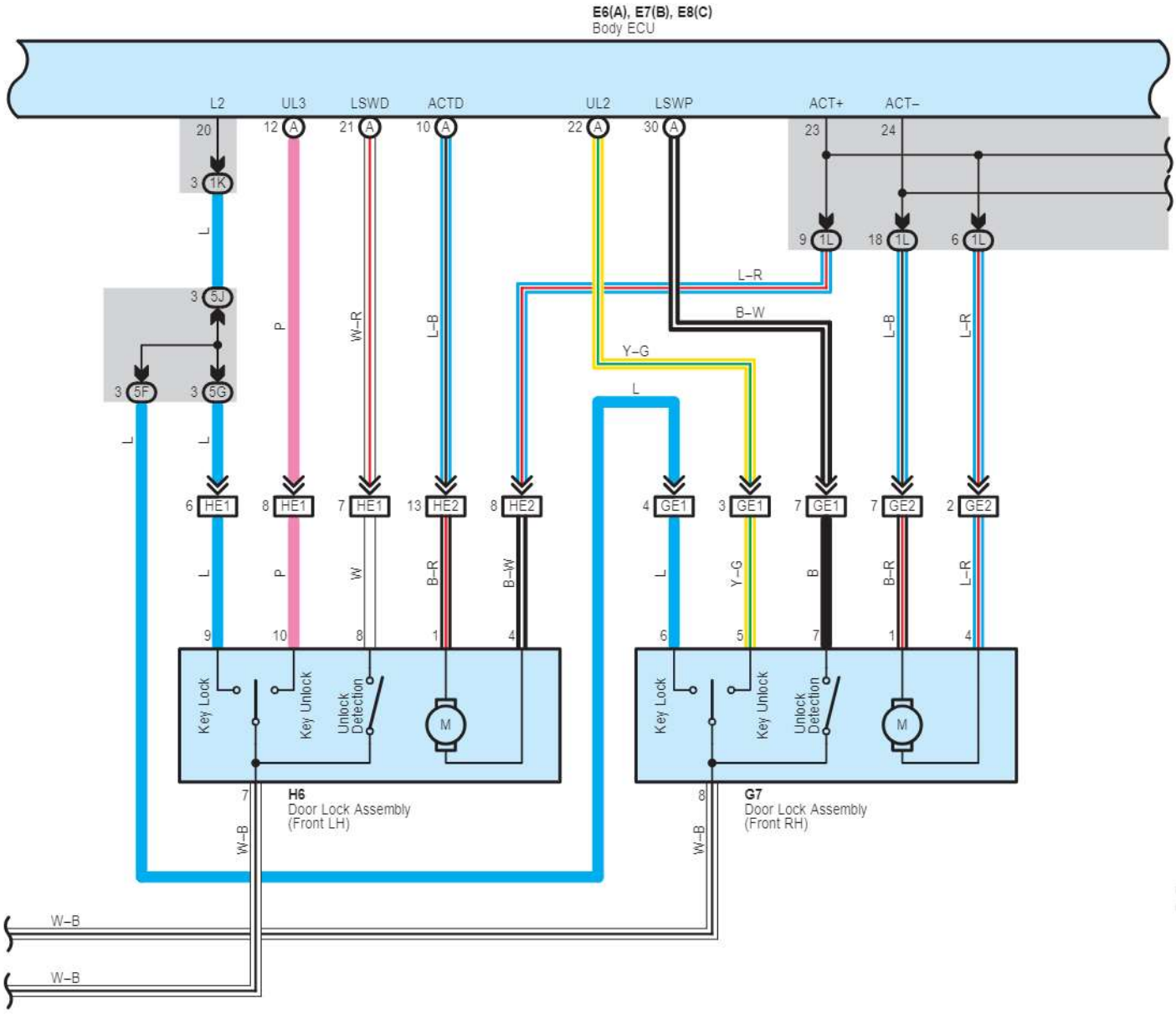


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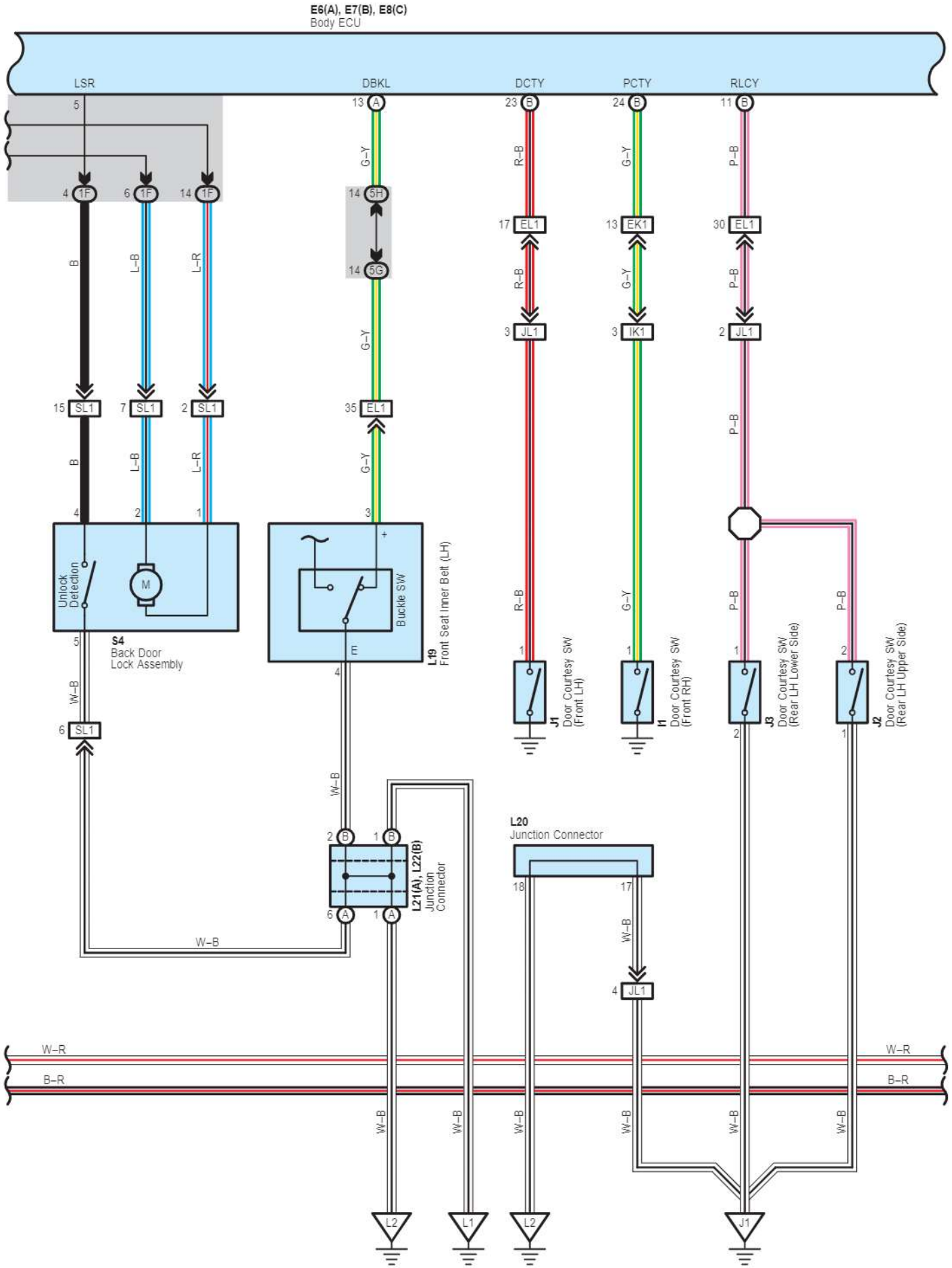
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Door Lock Control



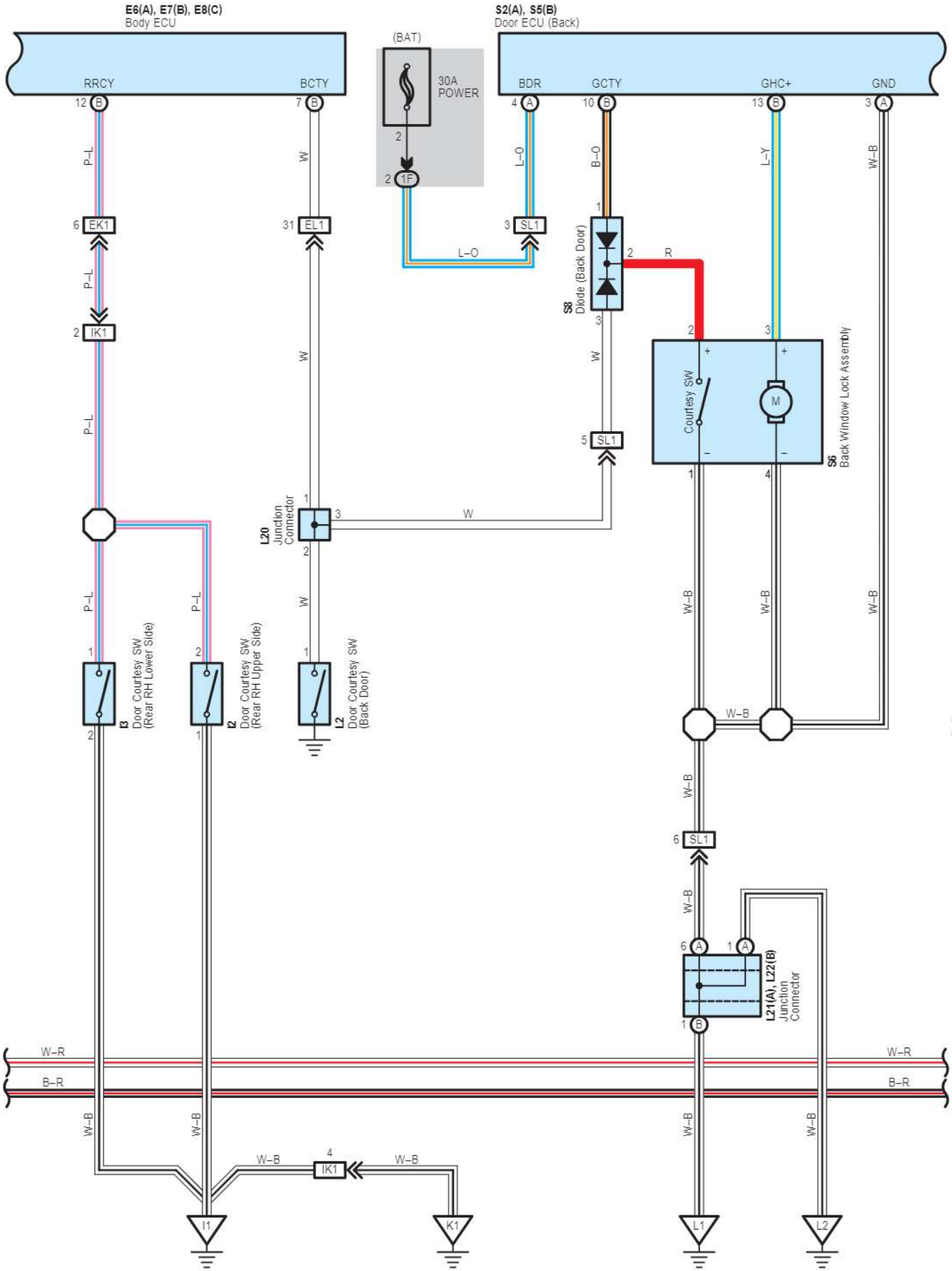


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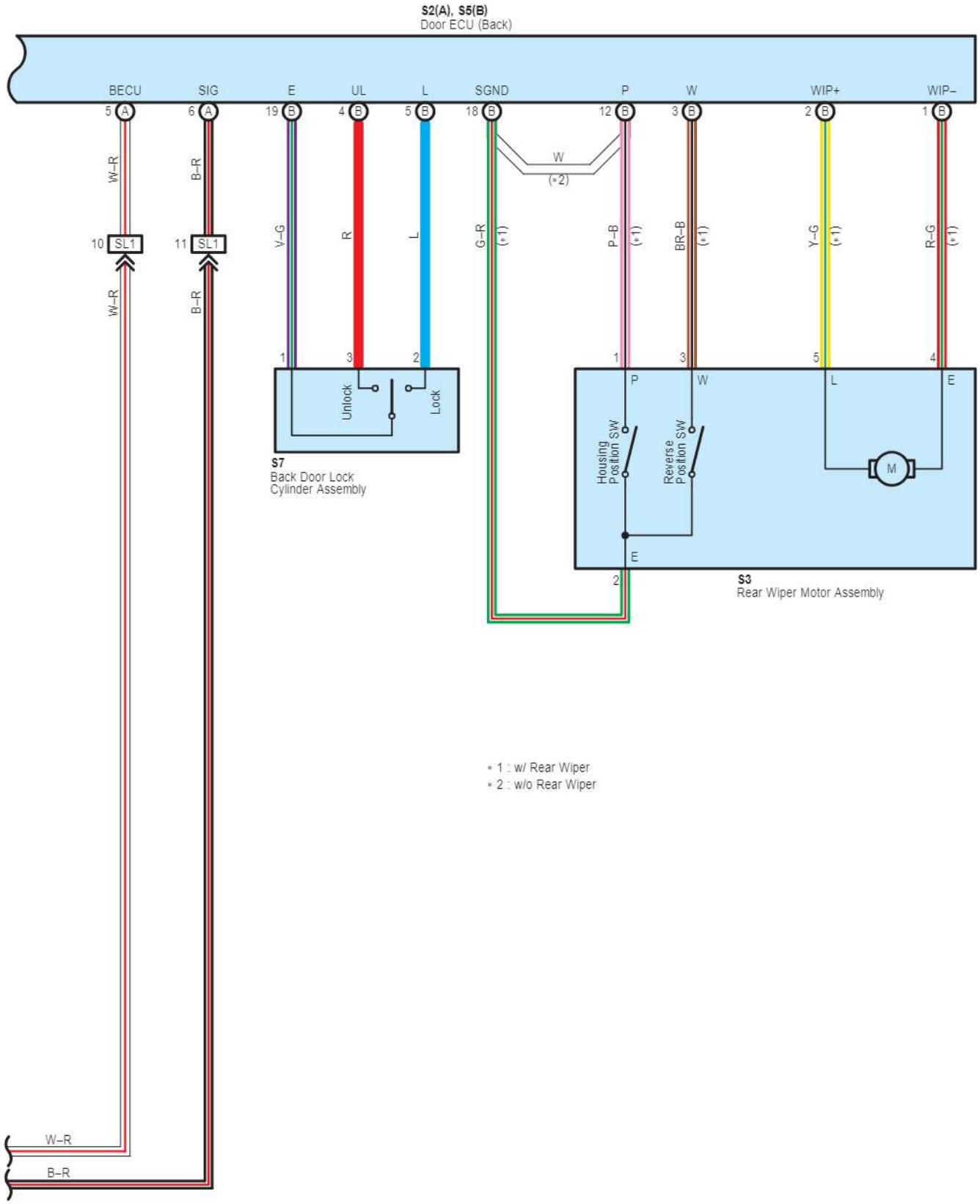


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Door Lock Control



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Door Lock Control

System Outline

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

1. Manual Unlock Operation

When the door lock control SW of the driver's or passenger's side door is pushed to UNLOCK, the door will unlock.

2. Manual Lock Operation

When the door lock control SW of the driver's or passenger's side door is pushed to LOCK, the door will lock.

3. Door Key Unlock Operation

* Unlock operation from driver's side door
  When the driver's side door is unlocked once using the ignition key, only the driver's side door is unlocked. If this operation is repeated within 3 seconds, all the other doors are unlocked.
* Unlock operation from passenger's side door
  When the front passenger's side door is unlocked using the ignition key, all the other doors are unlocked, too.

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.

5. Glass Hatch Opener Control

The glass hatch is opened when the back door key SW is kept on LOCK side for 0.8 second with the rear wiper in retracted condition.

○ : Parts Location

Code	See Page	Code	See Page	Code	See Page
E6 A	42	H5	47	L20	46
E7 B	42	H6	47	L21 A	46
E8 C	42	I1	47	L22 B	46
E21	42	I2	47	S2 A	47
E50 A	44	I3	47	S3	47
E51 B	44	J1	47	S4	47
G1	47	J2	47	S5 B	47
G5	47	J3	47	S6	47
G7	47	L2	46	S7	47
H1	47	L19	48	S8	47

▭ : Relay Blocks

Code	See Page	Relay Blocks (Relay Block Location)
2	22	Engine Room R/B No.2 (Engine Compartment Left)

▭ : Junction Block and Wire Harness Connector

Code	See Page	Junction Block and Wire Harness (Connector Location)
1B	24	Engine Room Main Wire and Driver Side J/B (Lower Finish Panel)
1E		
1F	24	Floor No.2 Wire and Driver Side J/B (Lower Finish Panel)
1H	25	Instrument Panel Wire and Driver Side J/B (Lower Finish Panel)
1K		
1L		
5D	28	Instrument Panel Wire and Center J/B LH (Instrument Panel LH)
5F		
5G		
5H		
5J		
5N		

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

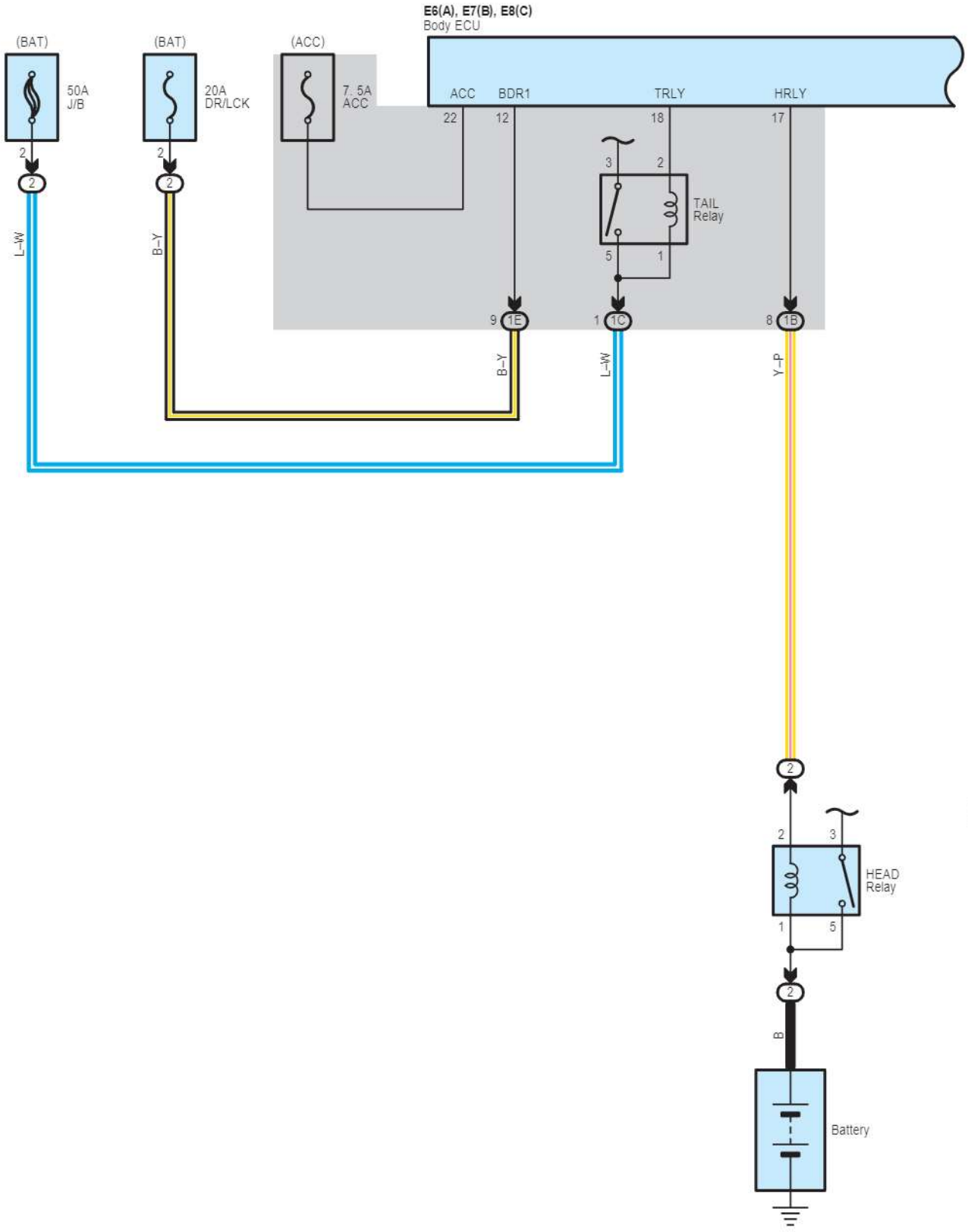
Code	See Page	Joining Wire Harness and Wire Harness (Connector Location)
EK1	51	Instrument Panel Wire and Floor Wire (Right Kick Panel)
EL1	51	Instrument Panel Wire and Floor No.2 Wire (Left Kick Panel)
GE1	51	Front Door RH Wire and Instrument Panel Wire (Right Kick Panel)
GE2		
HE1	51	Front Door LH Wire and Instrument Panel Wire (Left Kick Panel)
HE2		
IK1	52	Rear Door No.1 Wire and Floor Wire (Right Quarter Panel)
JL1	52	Rear Door No.2 Wire and Floor No.2 Wire (Left Quarter Panel)
SL1	52	Back Door No.1 Wire and Floor No.2 Wire (Left Quarter Panel)

: **Ground Points**

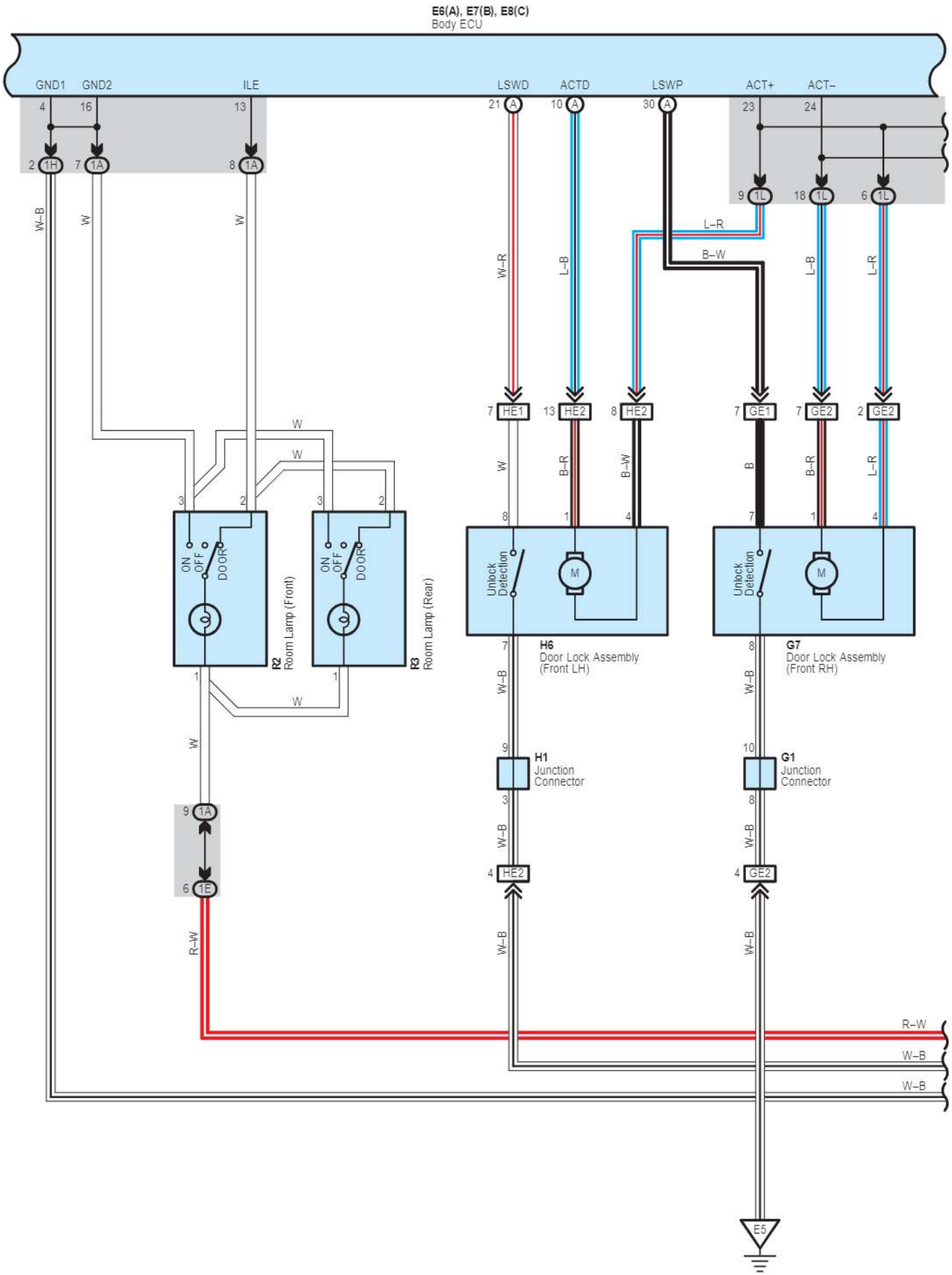
Code	See Page	Ground Points Location
E4	51	Left Kick Panel
E5	51	Right Kick Panel
I1	52	Access Door RH
J1	52	Access Door LH
K1	52	Floor Seat Crossmember RH
L1	52	Floor Seat Crossmember LH
L2	52	Left Quarter Panel

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Wireless Door Lock Control

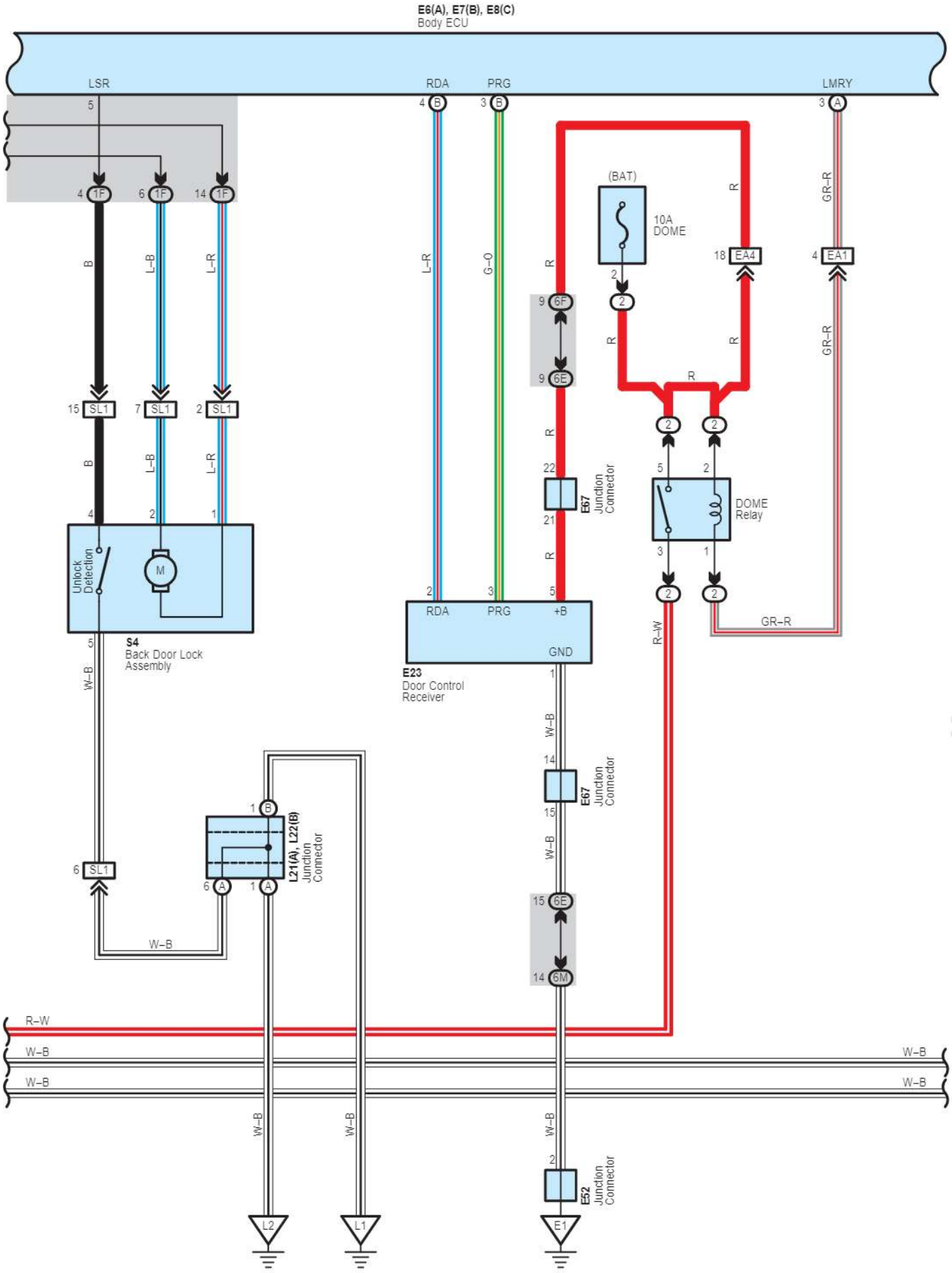


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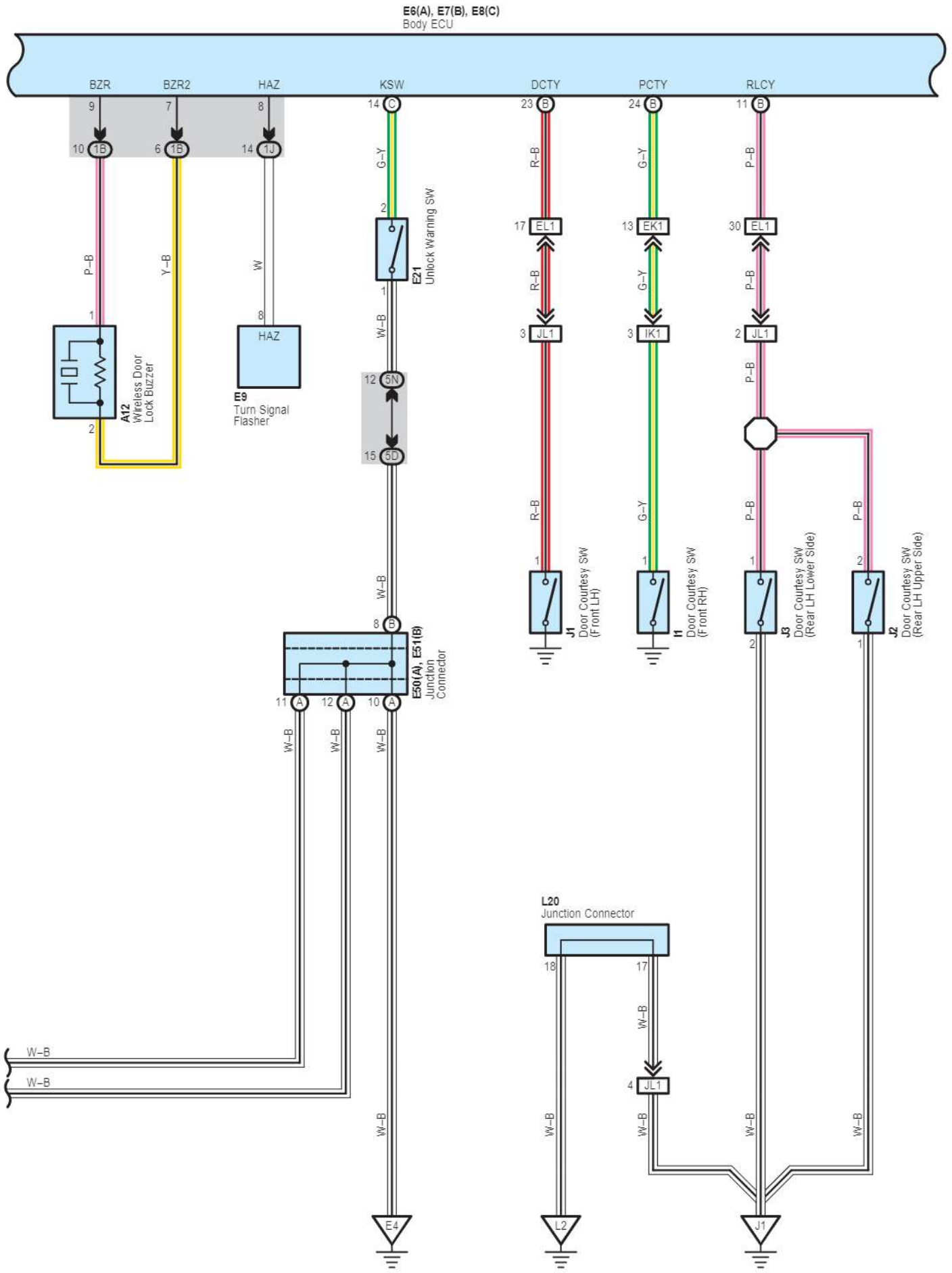


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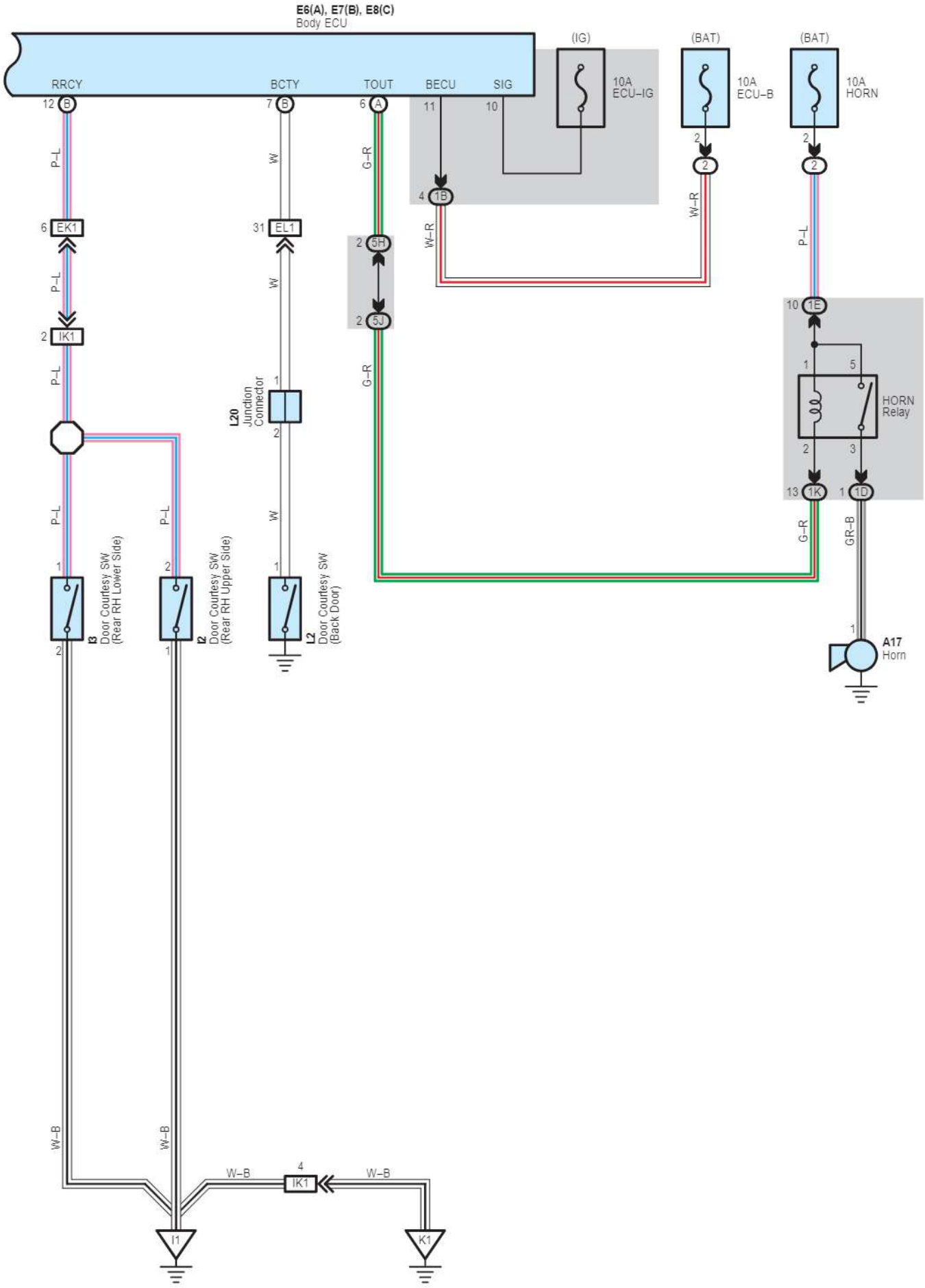
Wireless Door Lock Control



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System Outline

Door lock control (Lock and unlock) and panic control is performed by remote control, without the ignition key inserted in the door key cylinder, using low–power electrical waves emitted by a transmitter.

1. Normal Operation

* Lock operation
  When the lock SW on the transmitter is pressed, all the doors are locked.
* Unlock operation
  When the unlock SW on the transmitter is pressed once, only the driver door is unlocked. When the unlock SW is pressed again within 3 seconds, all the doors are unlocked.

2. Auto Lock Function

When the door is not actually opened within 60 seconds after the door has been unlocked by the unlock SW on the transmitter, all the doors are automatically locked. If any of the following conditions are detected, the wireless door lock does not function.

* Any door is opened.
* The ignition key is inserted into the ignition SW.
* When the lock detection SW of all the doors are locked.

3. Wireless Door Lock Stop Function

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

* When any door is open (Door courtesy SW on)
* The ignition key is inserted into the ignition SW (Unlock warning SW on)
* Ignition SW is on

Unlock operation

* Ignition SW is on

4. Buzzer Sound Function

During lock operation, when the body ECU receives a lock signal from the door lock detection SW, the wireless door lock buzzer goes on once. During unlock operation, when the body ECU receives an unlock signal from the door lock detection SW, the wireless door lock buzzer goes on twice.
With any door open, when the body ECU receives a lock signal from the transmitter, the wireless door lock buzzer goes on for approx. 10 seconds. If the door is closed, or ignition SW is on, or if the unlock signal is received from the transmitter while the buzzer is on, the buzzer stops.

5. Visual Confirmation of Lock or Unlock

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

6. Remote Panic Operation

Panic will function when doors are locked or unlocked, open or closed. When the panic button (Transmitter) is pushed once, interior lights light up, and horn sounds and turn signal light, headlights and taillight flash. Then, the panic or the unlock button (Transmitter) is pushed once more, interior lights are turned off, sounding and flashing will stop. Panic will not function when ignition key is in ignition key cylinder.

7. Repeat Function

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

8. Illuminated Entry Function

When the body ECU detects the unlock state after the unlock operation has been made, it turns on the lights, such as the interior light for approx. 15 sec. If all the doors are locked during this operation, lighting is cancelled and the lights immediately fade out.

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Wireless Door Lock Control

○ : **Parts Location**

Code	See Page	Code	See Page	Code	See Page
A12	38	E52	44	J2	47
A17	38	E67	44	J3	47
E6 A	42	G1	47	L2	46
E7 B	42	G7	47	L20	46
E8 C	42	H1	47	L21 A	46
E9	42	H6	47	L22 B	46
E21	42	I1	47	R2	47
E23	42	I2	47	R3	47
E50 A	44	I3	47	S4	47
E51 B	44	J1	47		

▭ : **Relay Blocks**

Code	See Page	Relay Blocks (Relay Block Location)
2	22	Engine Room R/B No.2 (Engine Compartment Left)

▭ : **Junction Block and Wire Harness Connector**

Code	See Page	Junction Block and Wire Harness (Connector Location)
1A	24	Roof Wire and Driver Side J/B (Lower Finish Panel)
1B	24	Engine Room Main Wire and Driver Side J/B (Lower Finish Panel)
1C		
1D		
1E		
1F	24	Floor No.2 Wire and Driver Side J/B (Lower Finish Panel)
1H	25	Instrument Panel Wire and Driver Side J/B (Lower Finish Panel)
1J		
1K		
1L		
5D	28	Instrument Panel Wire and Center J/B LH (Instrument Panel LH)
5H		
5J		
5N		
6E	32	Instrument Panel Wire and Center J/B RH (Instrument Panel RH)
6F		
6M		

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

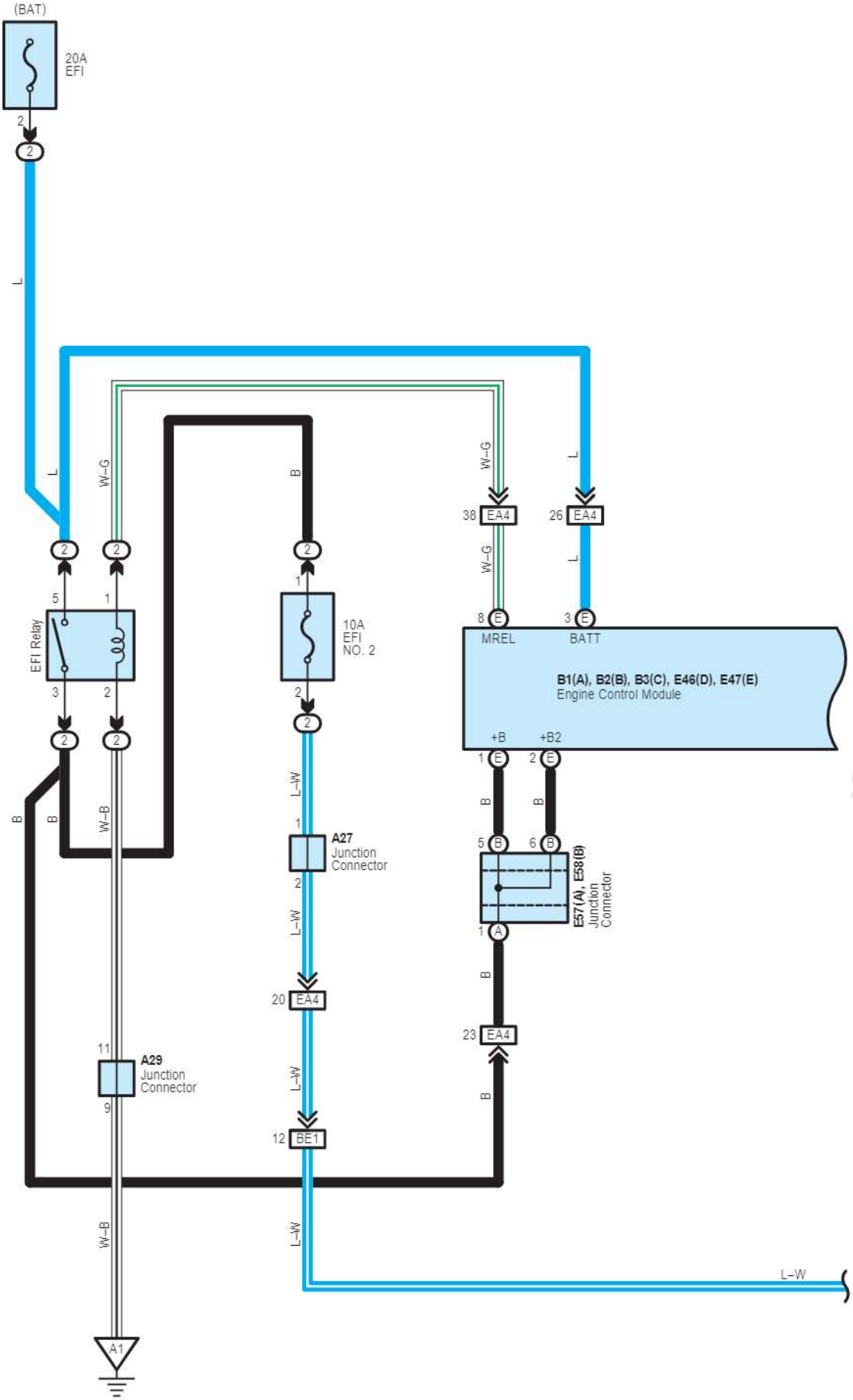
Code	See Page	Joining Wire Harness and Wire Harness (Connector Location)
EA1	51	Instrument Panel Wire and Engine Room Main Wire (Left Kick Panel)
EA4		
EK1	51	Instrument Panel Wire and Floor Wire (Right Kick Panel)
EL1	51	Instrument Panel Wire and Floor No.2 Wire (Left Kick Panel)
GE1	51	Front Door RH Wire and Instrument Panel Wire (Right Kick Panel)
GE2		
HE1	51	Front Door LH Wire and Instrument Panel Wire (Left Kick Panel)
HE2		
IK1	52	Rear Door No.1 Wire and Floor Wire (Right Quarter Panel)
JL1	52	Rear Door No.2 Wire and Floor No.2 Wire (Left Quarter Panel)
SL1	52	Back Door No.1 Wire and Floor No.2 Wire (Left Quarter Panel)

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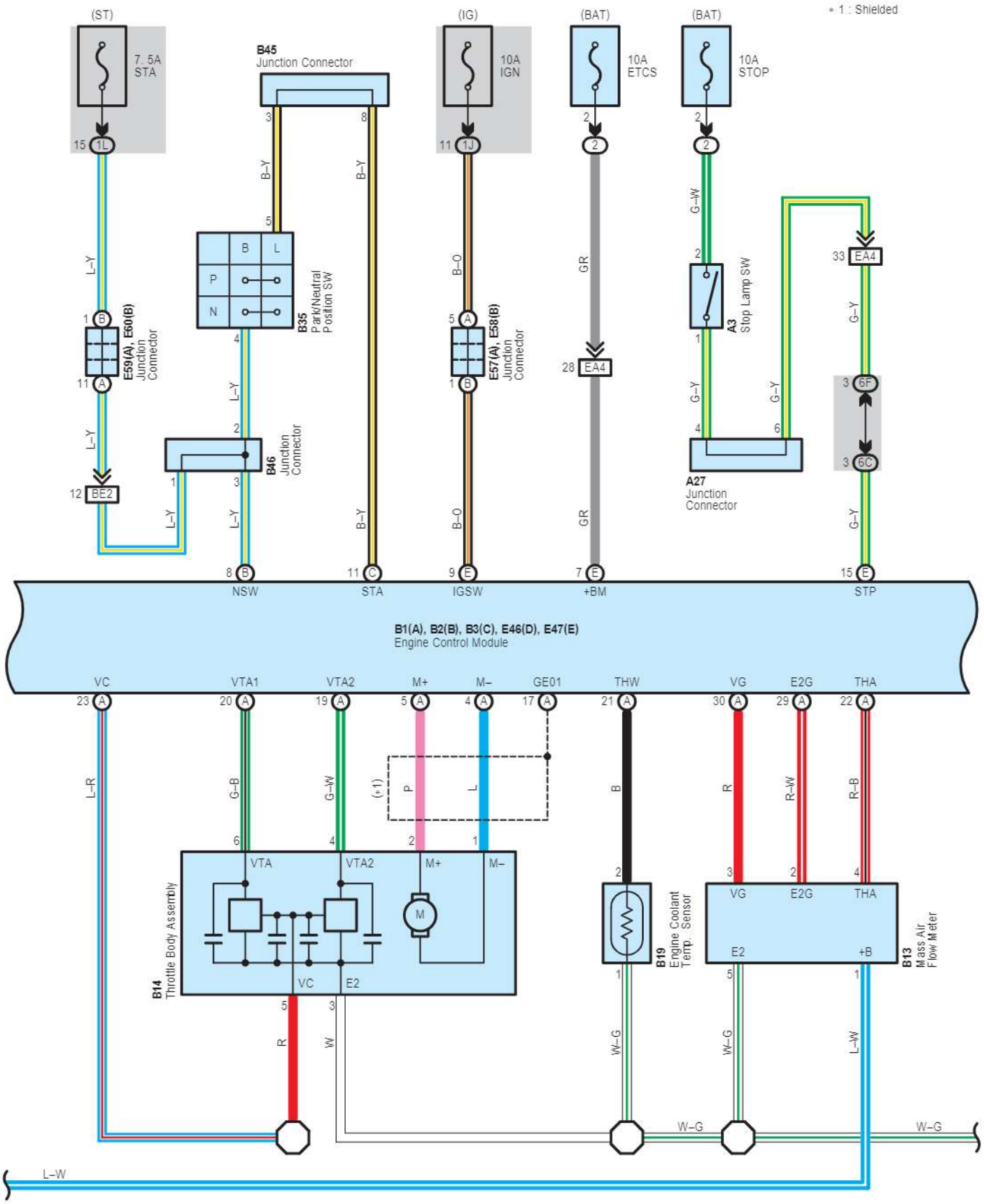
▽ : **Ground Points**

Code	See Page	Ground Points Location
E1	51	Instrument Panel Brace RH
E4	51	Left Kick Panel
E5	51	Right Kick Panel
I1	52	Access Door RH
J1	52	Access Door LH
K1	52	Floor Seat Crossmember RH
L1	52	Floor Seat Crossmember LH
L2	52	Left Quarter Panel

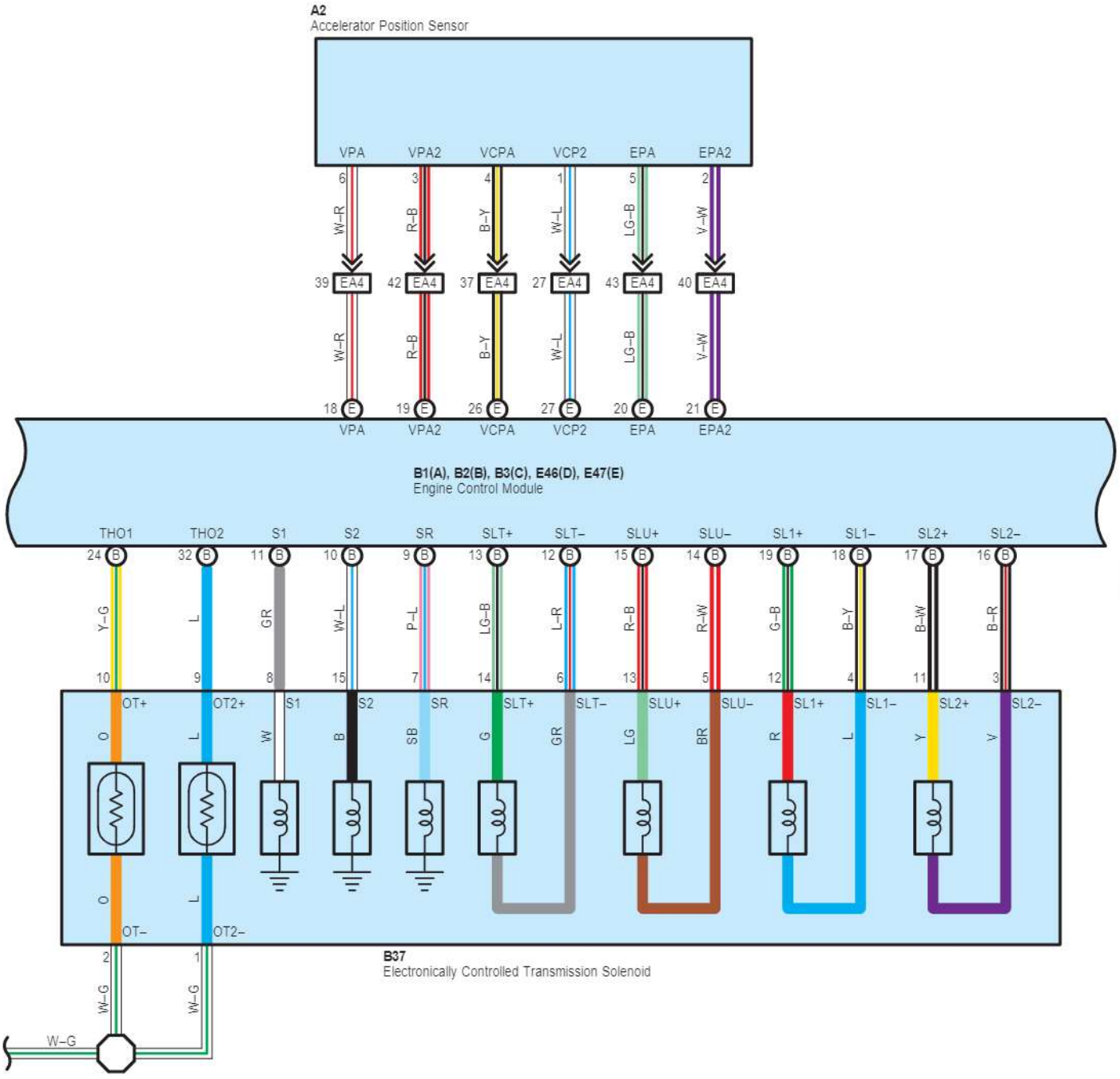
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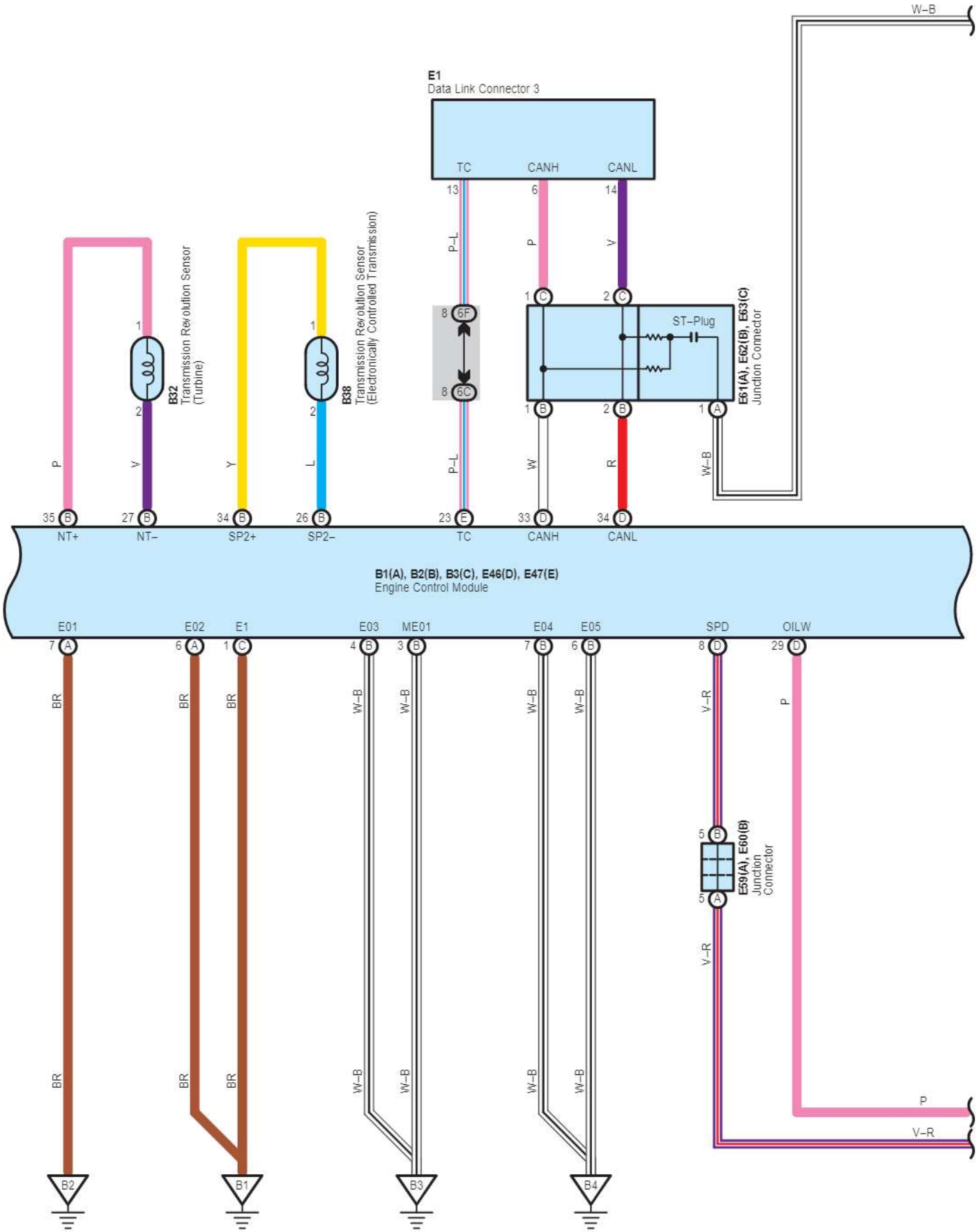
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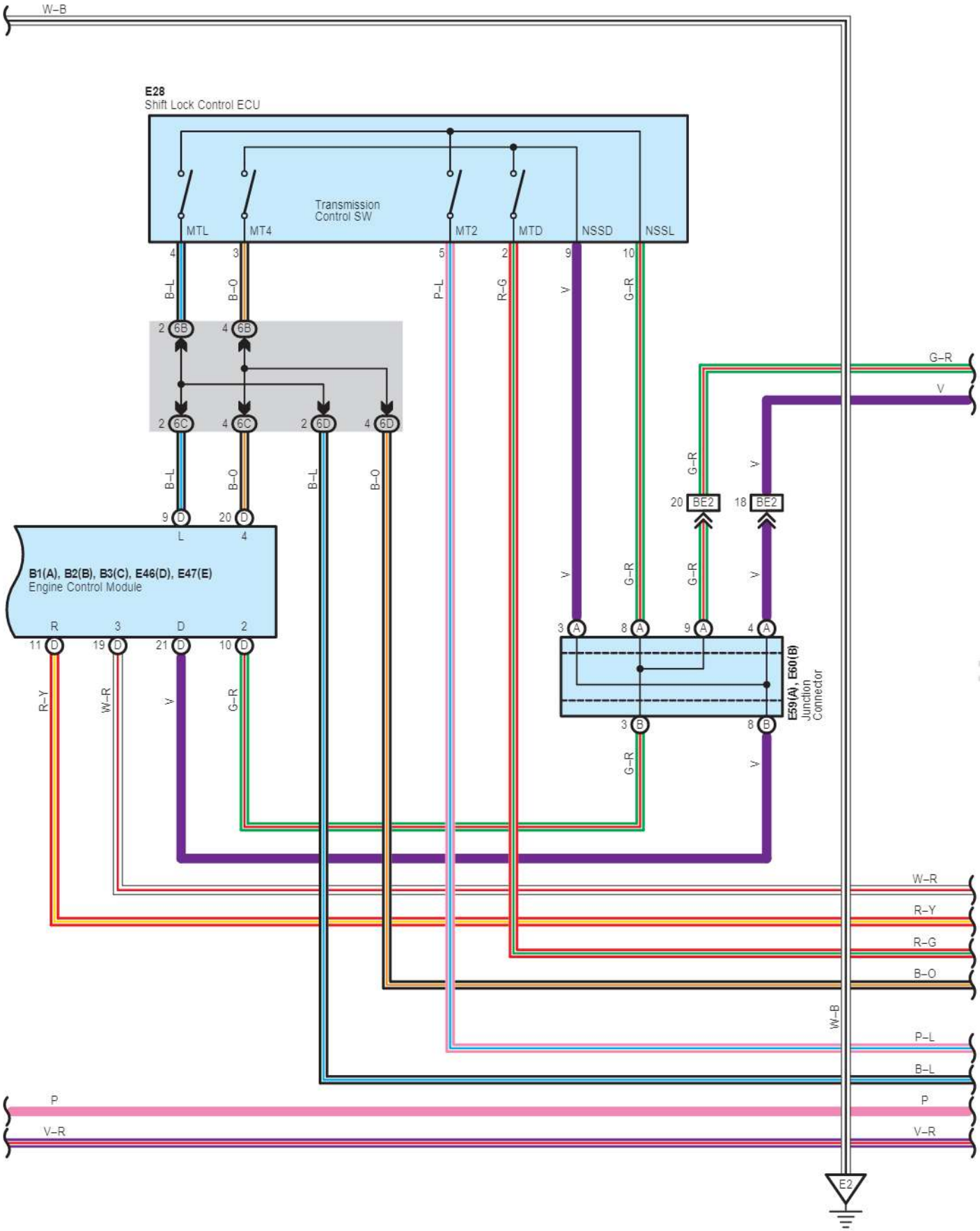
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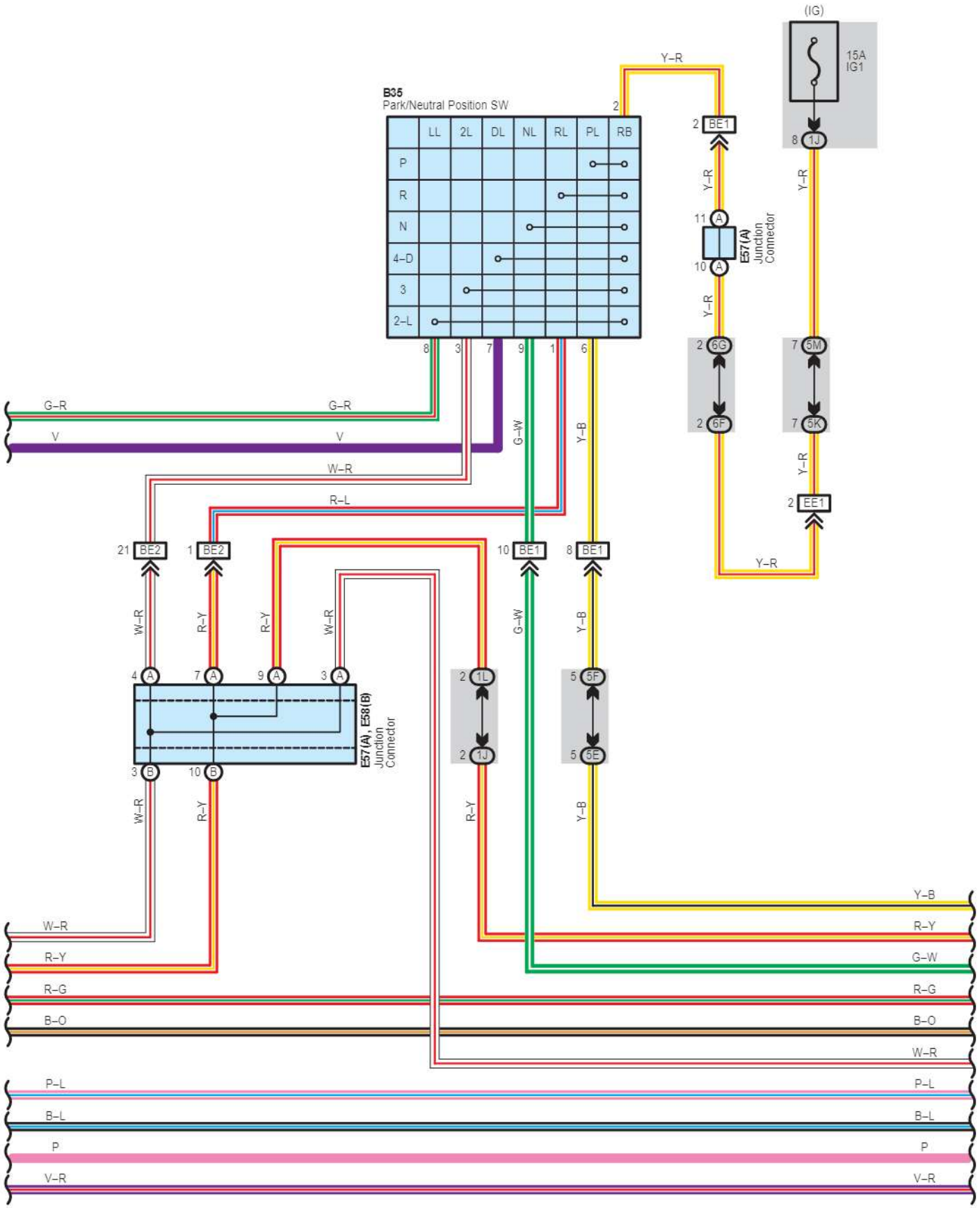
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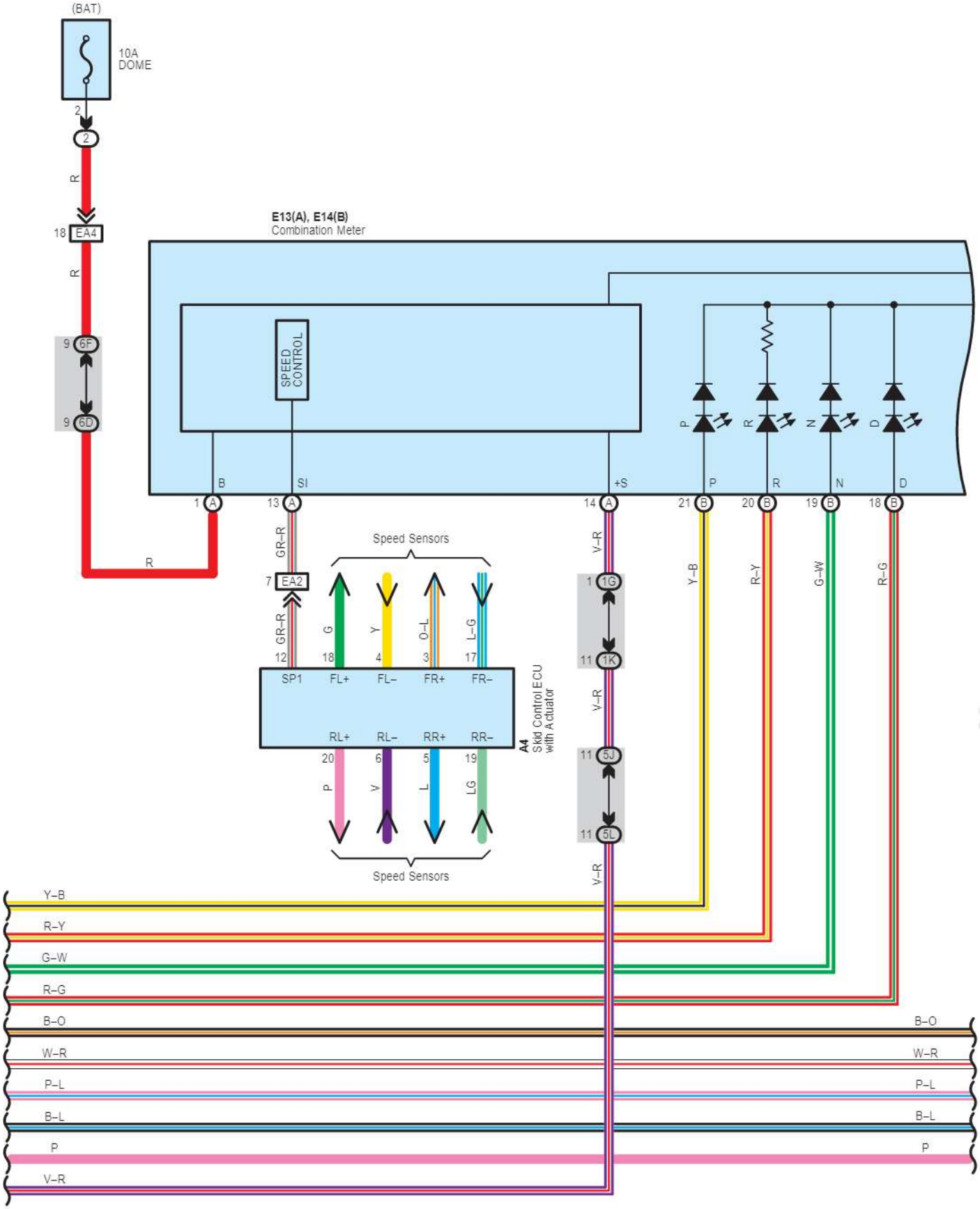
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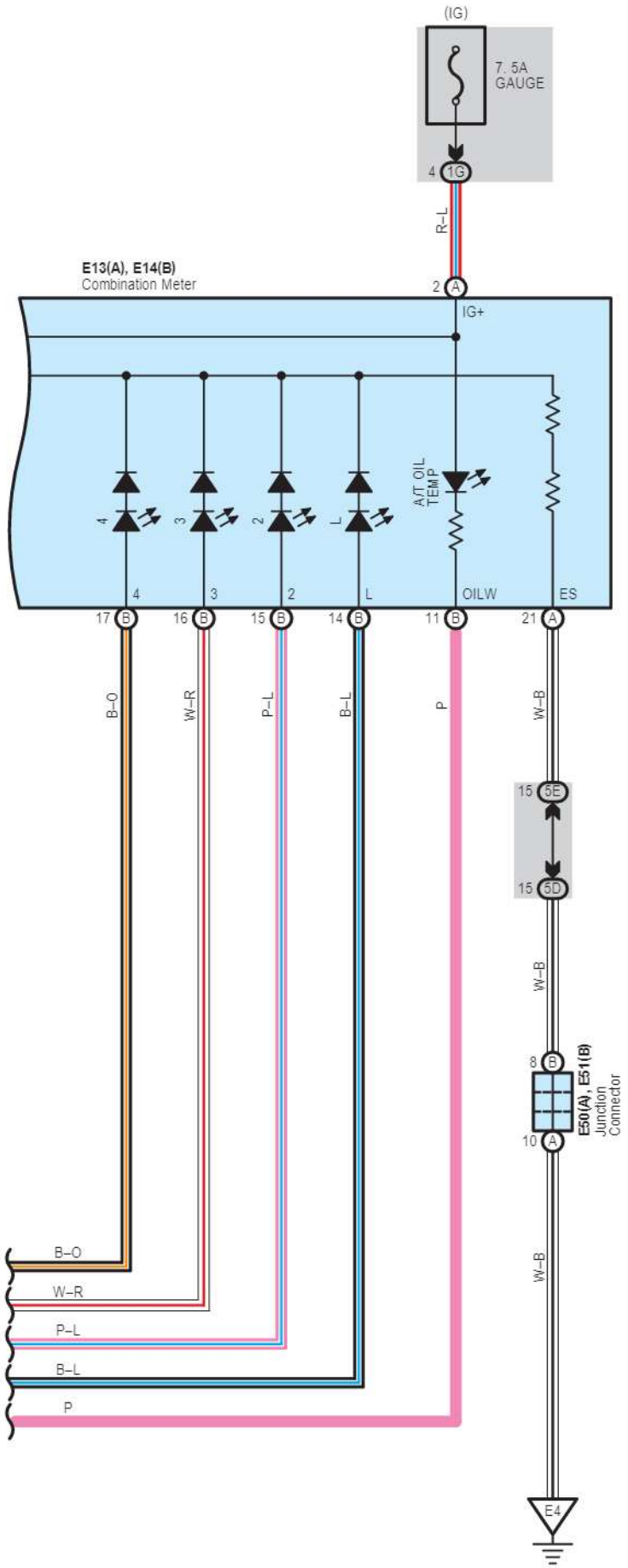
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System Outline

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

1. Gear Shift Operation

When driving, the engine warm up condition is input as a signal to TERMINAL THW of the engine control module from the engine coolant temp. sensor and the vehicle speed signal from vehicle speed sensor is input to TERMINAL SP2+ of the engine control module. At the same time, the throttle valve opening signal from the throttle position sensor is input to TERMINALS VTA1 and VTA2 of the engine control module as throttle angle signal.
Based on these signals, the engine control module selects the best shift position for the driving conditions and sends current to the electronically controlled transmission solenoid.

2. Line Hydraulic Pressure Control

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

3. High Response Gear Shifting Control

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

4. Clutch Hydraulic Pressure Control

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

5. Lock–Up and Flexible Lock–Up Control

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

6. Stop Lamp SW Circuit

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

7. AI–Shift Control

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

○ : Parts Location

Code	See Page	Code	See Page	Code	See Page
A2	45	B32	40	E47 E	43
A3	45	B35	40	E50 A	44
A4	38	B37	40	E51 B	44
A27	45	B38	40	E57 A	44
A29	38	B45	45	E58 B	44
B1 A	45	B46	45	E59 A	44
B2 B	45	E1	42	E60 B	44
B3 C	45	E13 A	42	E61 A	36, 44
B13	39	E14 B	42	E62 B	36, 44
B14	39	E28	43	E63 C	36, 44
B19	39	E46 D	43		

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: Relay Blocks

Code	See Page	Relay Blocks (Relay Block Location)
2	22	Engine Room R/B No.2 (Engine Compartment Left)

: Junction Block and Wire Harness Connector

Code	See Page	Junction Block and Wire Harness (Connector Location)
1G	25	Instrument Panel Wire and Driver Side J/B (Lower Finish Panel)
1J		
1K		
1L		
5D	28	Instrument Panel Wire and Center J/B LH (Instrument Panel LH)
5E		
5F		
5J		
5K		
5L		
5M		
6B	32	Instrument Panel Wire and Center J/B RH (Instrument Panel RH)
6C		
6D		
6F		
6G		

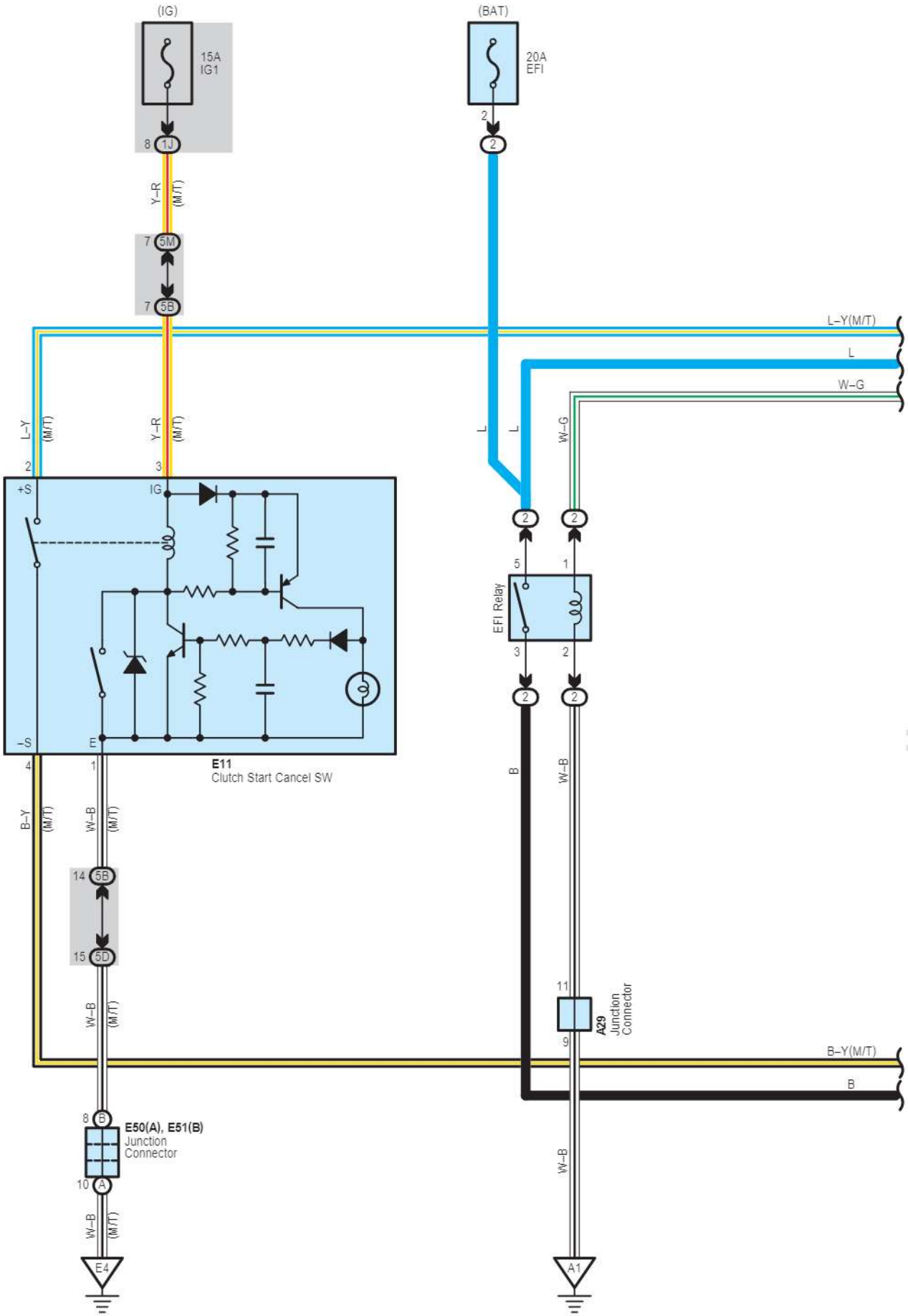
: Connector Joining Wire Harness and Wire Harness

Code	See Page	Joining Wire Harness and Wire Harness (Connector Location)
BE1	51	Engine Wire and Instrument Panel Wire (Upper the Glove Box)
BE2		
EA2	51	Instrument Panel Wire and Engine Room Main Wire (Left Kick Panel)
EA4		
EE1	51	Instrument Panel Wire and Instrument Panel Wire (Instrument Panel RH)

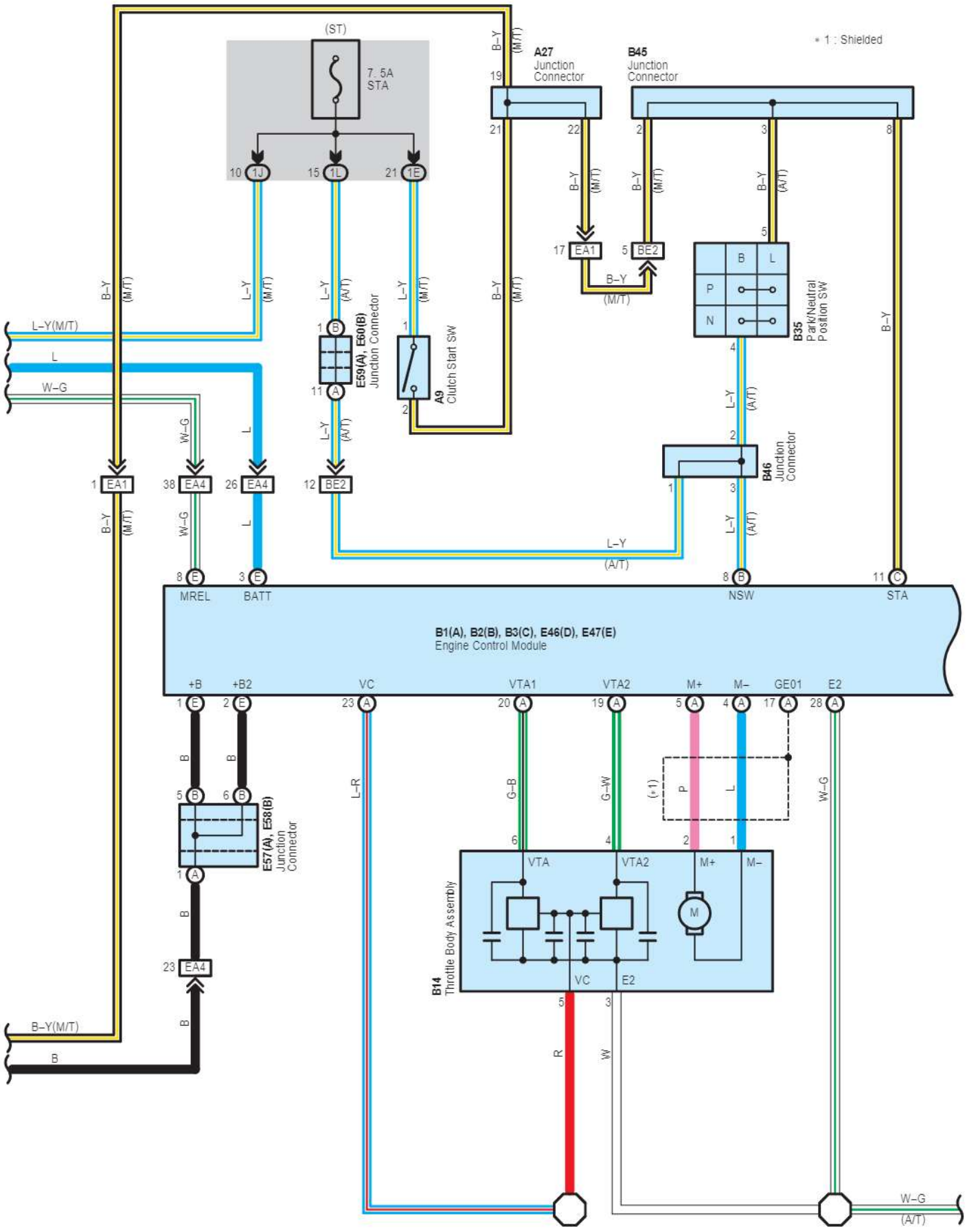
: Ground Points

Code	See Page	Ground Points Location
A1	50	Left Fender Apron
B1	50	Rear Side of Right Bank Cylinder Block
B2		
B3	50	Rear Side of Left Bank Cylinder Block
B4		
E2	51	Instrument Panel Brace LH
E4	51	Left Kick Panel

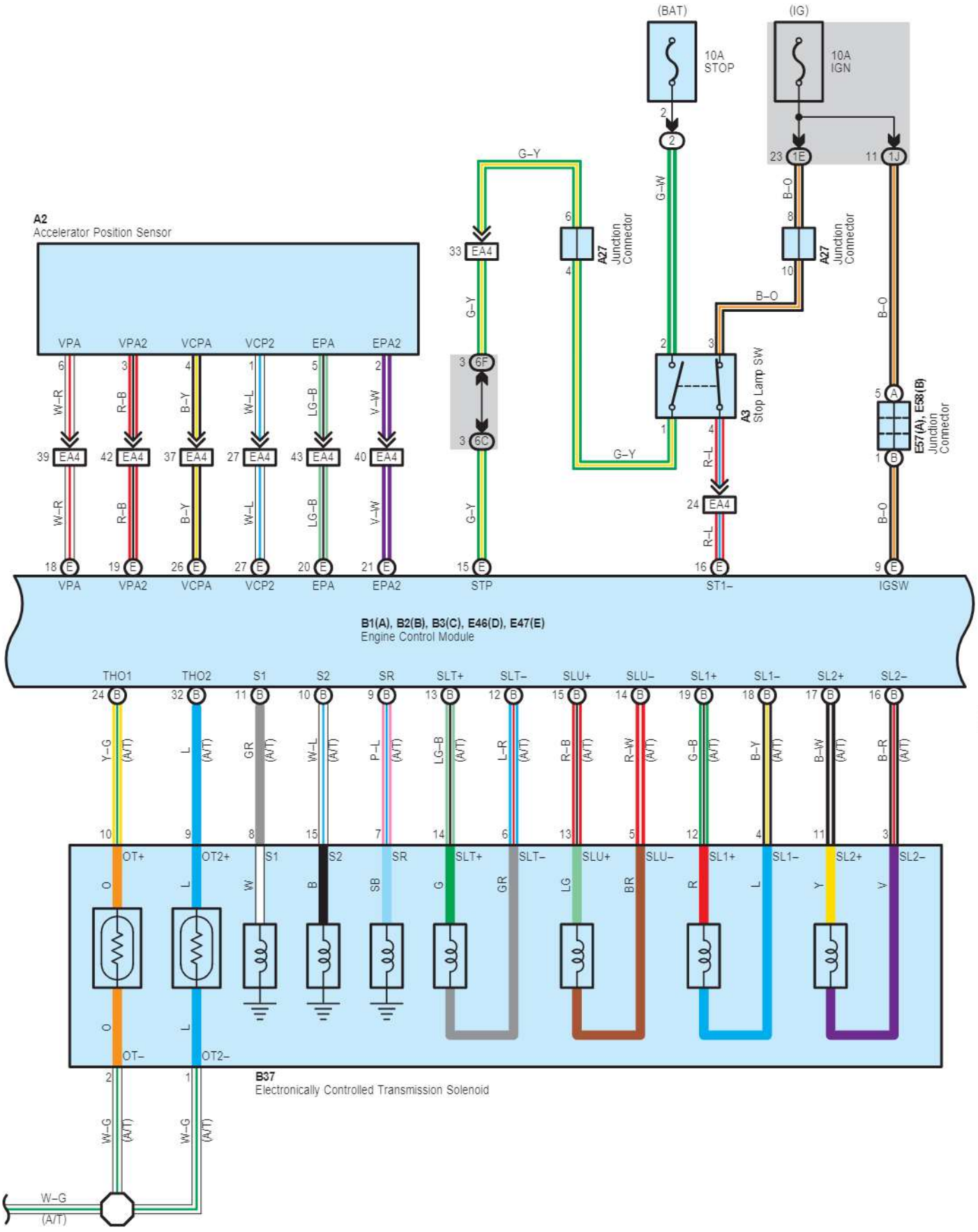
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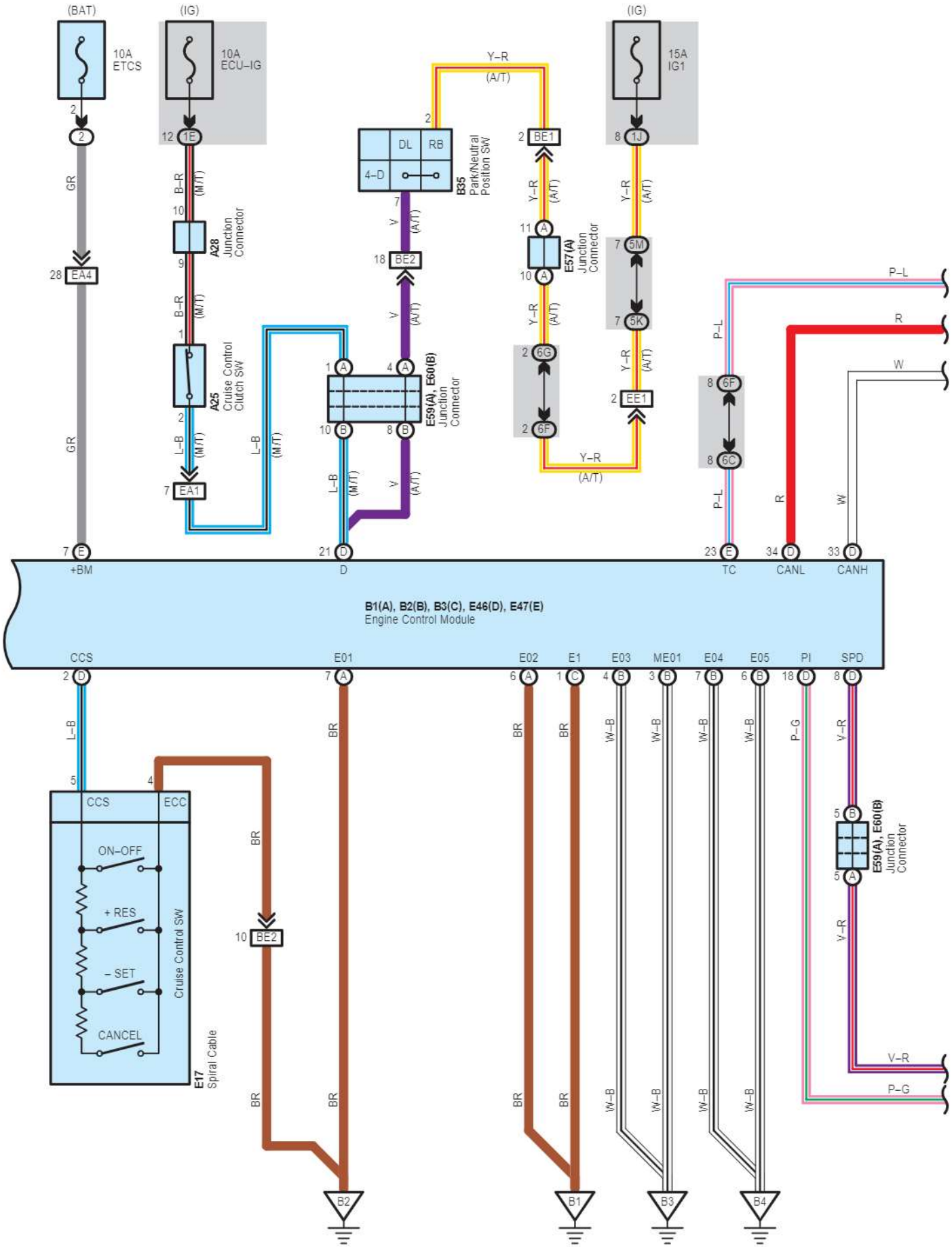
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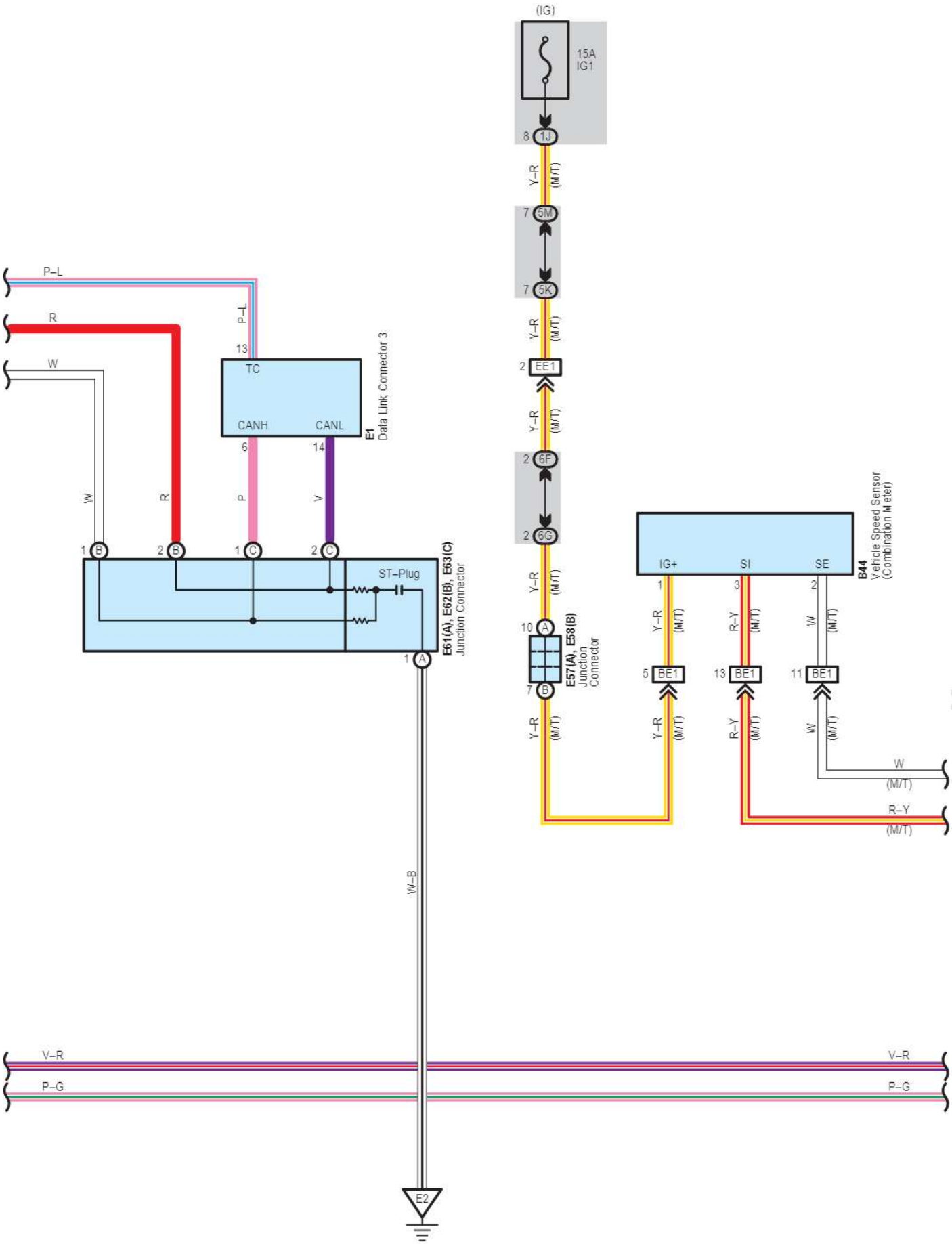
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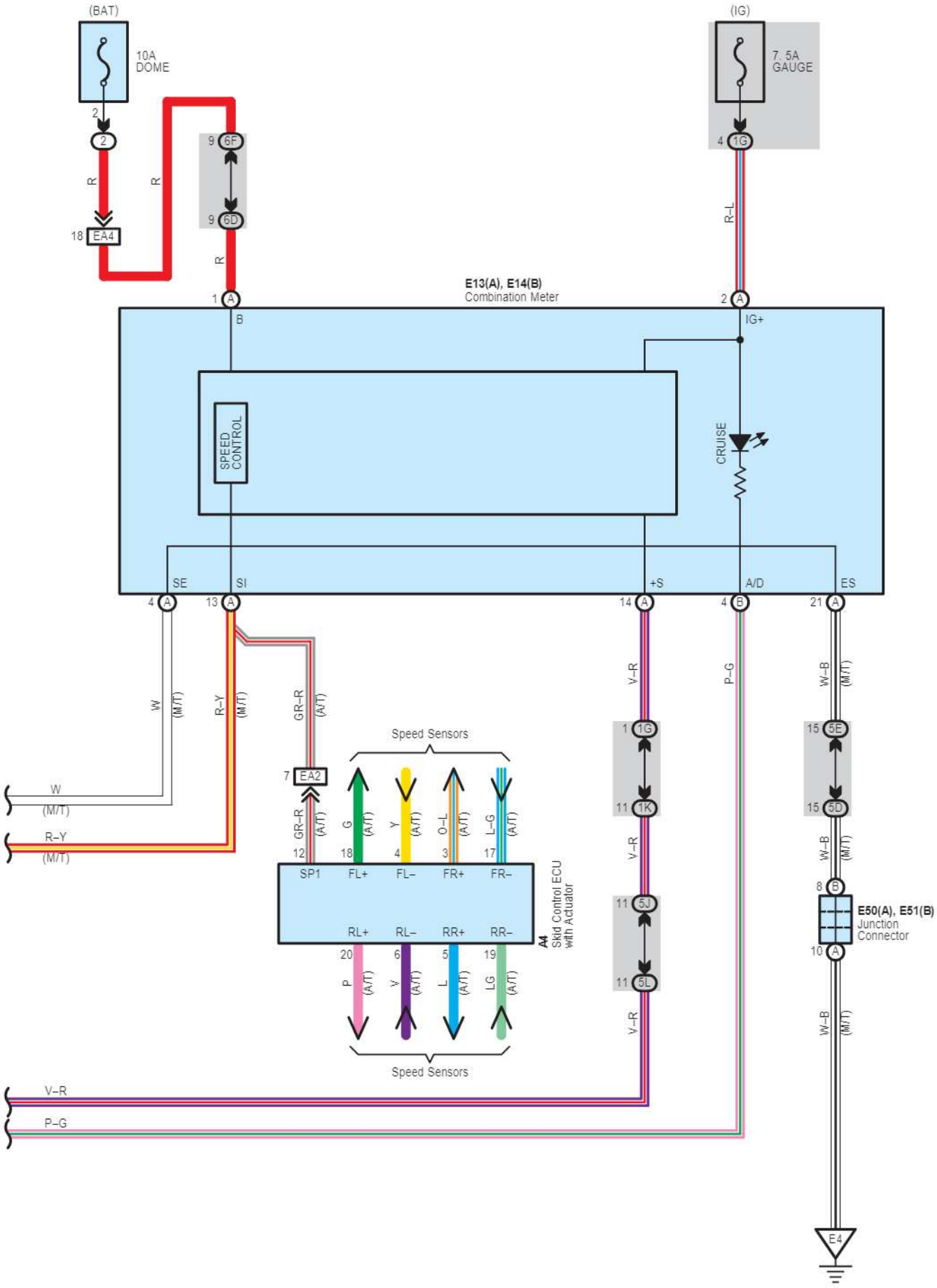
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System Outline

The cruise control system is a constant vehicle speed controller in which the opening of the engine throttle valve is adjusted automatically with control of the SW at hand without depressing the accelerator pedal when a driver wishes to drive at a constant speed on a highway.

1. Constant Speed Control

When actual vehicle speed is faster than the set vehicle speed, a signal is sent to the electric throttle motor to rotate in order to close the throttle valve. On the contrary, when the vehicle speed is slower than the set vehicle speed, a signal is sent to the electric throttle motor to rotate in order to open the throttle valve.

2. Setting

When operating the – SET SW with the ON–OFF SW ON (Within the settable range of the vehicle speed: Above the low speed limit and below the high speed limit), the vehicle speed at which the SW is turned OFF is stored in the memory and the vehicle is controlled to drive constantly at that speed.

3. Coast, Tap Down

<Coast>

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

<Tap down>

When the – SET SW is turned ON momentarily (Approx. 0.6 sec.), the set vehicle speed decelerates in approximately 1.6 km/h steps by each SW operation. In the tap down operation with more than 5 km/h difference between the set vehicle speed and actual vehicle speed, the vehicle speed at which the SW is turned OFF is stored in the memory and the vehicle is controlled to drive constantly at that speed.

4. Acceleration, Tap Up

<Acceleration>

When the + RES SW is kept ON during driving under the cruise control, the acceleration control rotates the electric throttle motor to open the throttle valve to control the vehicle to accelerate with constant acceleration. The vehicle speed at which the SW is turned OFF is stored in the memory and the vehicle is controlled to drive constantly at that speed.

<Tap up>

When the + RES SW is turned ON momentarily (Approx. 0.6 sec.), the set vehicle speed accelerates in approximately 1.6 km/h steps by each SW operation. When difference between the set vehicle speed and actual vehicle speed is more than 5 km/h, the tap up operation does not change the set vehicle speed.

5. Low Speed Limit

It means the lower limit speed in the settable speed range and is set to be approximately 40 km/h. The cruise control cannot be set if the vehicle speed is slower than the low speed limit. When the vehicles speed drops below the low speed limit during driving under the cruise control, the cruise control is cancelled but the set speed is retained to be available.

6. High Speed Limit

It means the higher limit speed in the settable speed range and is set to be approximately 200 km/h. The cruise control cannot be set if the vehicle speed is faster than the high speed limit. The vehicle cannot be accelerated above the high speed limit with the + RES SW operation.

7. Cancel

When the following signals are input during driving under the cruise control, the cruise control is cancelled.

(1) Stop lamp SW ON

(2) CANCEL SW ON in the control SW

(3) ON–OFF SW OFF

(4) D position circuit ON to OFF in the park/neutral position SW (Shift position is shifted from D, 4 to N, 3, 2, L.) (A/T)

(5) Cruise control clutch SW OFF (Clutch pedal depressed) (M/T)

8. Resume

When the vehicle speed stays at more than the low speed limit after the cruise control is canceled with above signals (Except (3) ON–OFF SW OFF), the cruise control resumes operation to reach the vehicle speed that was set at the time the driver canceled the cruise control with constant acceleration by operating the + RES SW from OFF to ON.

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9. Over Drive Control

During driving with cruise control, the overdrive function might be released on climbing hills. When climbing hill is judged to finish from throttle opening information, the overdrive function is returned after the overdrive resume timer. If the overdrive function is cut during acceleration or resume control, the overdrive function is returned after acceleration or resume control is completed.

10. Auto Cancel

(1) The set vehicle speed is erased in the memory and the cruise control is cancelled in the following conditions. Until the ON–OFF SW is turned ON again, the cruise operation indicator blinks and the control will not be effective.
- ∗ When the stop lamp SW is disconnected and short–circuit.
- ∗ When the vehicle speed signal is abnormal
- ∗ When the electronic throttle parts are abnormal

(2) The set vehicle speed is erased in the memory and the cruise control is cancelled in the following conditions. Until the ON–OFF SW is turned ON again, the cruise operation indicator blinks and the control will not be effective unless the ignition SW is turned OFF.
- ∗ When the stop lamp SW input circuit is abnormal
- ∗ When the cancel circuit is abnormal

(3) The set vehicle speed is erased in the memory and the cruise control is cancelled in the following conditions.
- ∗ When the vehicle speed drops below the speed which is the set speed minus 16km/h. (Set speed erased)

(4) The cruise control is cancelled in the following conditions.
- ∗ When the vehicle speed is slower than the low speed limit. (Set speed retained)

○ : Parts Location

Code		See Page	Code		See Page	Code		See Page
A2		45	B14		39	E46	D	43
A3		45	B35		40	E47	E	43
A4		38	B37		40	E50	A	44
A9		45	B44		40	E51	B	44
A25		45	B45		45	E57	A	44
A27		45	B46		45	E58	B	44
A28		38	E1		42	E59	A	44
A29		38	E11		42	E60	B	44
B1	A	45	E13	A	42	E61	A	36, 44
B2	B	45	E14	B	42	E62	B	36, 44
B3	C	45	E17		42	E63	C	36, 44

▭ : Relay Blocks

Code	See Page	Relay Blocks (Relay Block Location)
2	22	Engine Room R/B No.2 (Engine Compartment Left)

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: **Junction Block and Wire Harness Connector**

Code	See Page	Junction Block and Wire Harness (Connector Location)
1E	24	Engine Room Main Wire and Driver Side J/B (Lower Finish Panel)
1G	25	Instrument Panel Wire and Driver Side J/B (Lower Finish Panel)
1J		
1K		
1L		
5B	28	Instrument Panel Wire and Center J/B LH (Instrument Panel LH)
5D		
5E		
5J		
5K		
5L		
5M		
6C	32	Instrument Panel Wire and Center J/B RH (Instrument Panel RH)
6D		
6F		
6G		

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

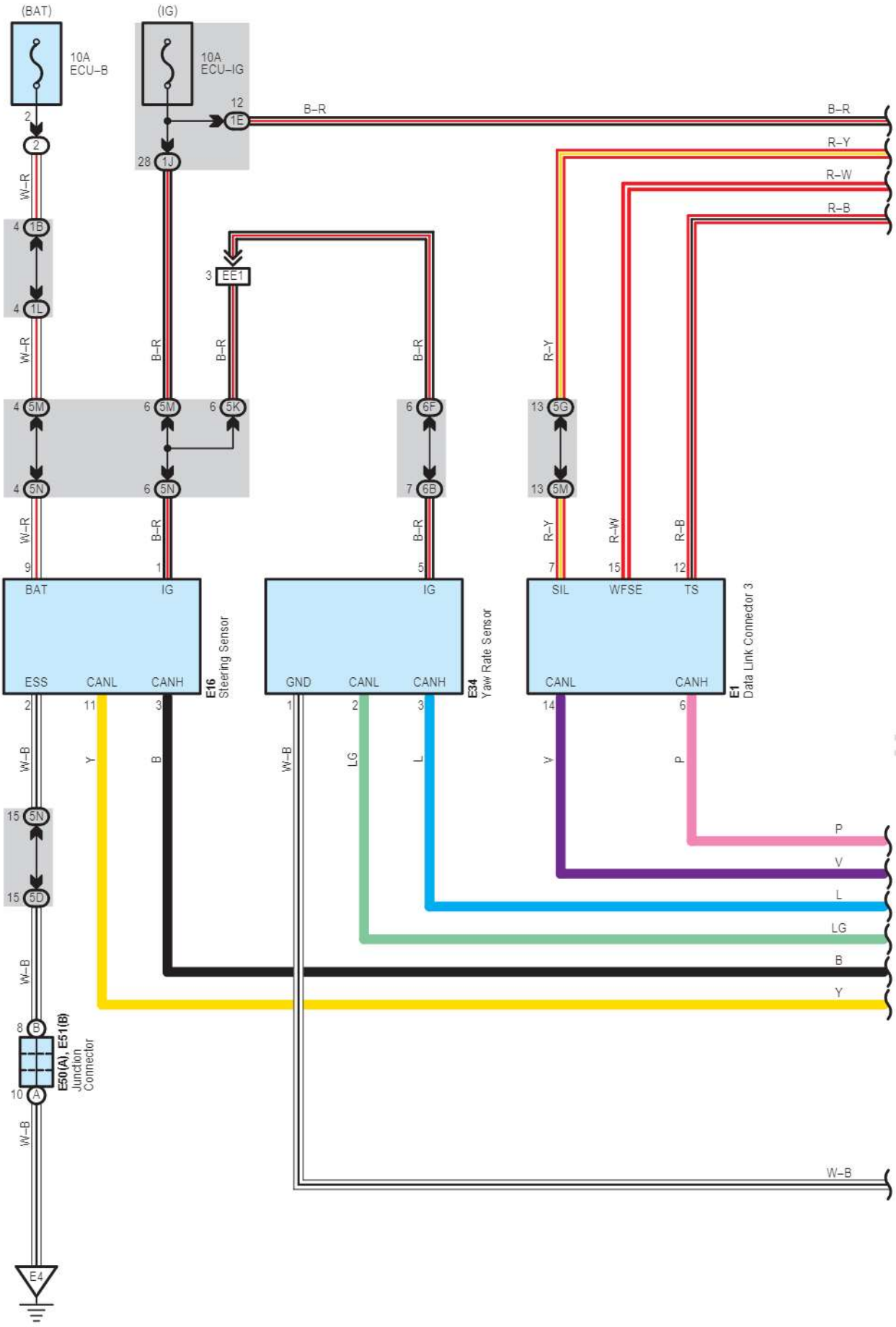
Code	See Page	Joining Wire Harness and Wire Harness (Connector Location)
BE1	51	Engine Wire and Instrument Panel Wire (Upper the Glove Box)
BE2		
EA1	51	Instrument Panel Wire and Engine Room Main Wire (Left Kick Panel)
EA2		
EA4		
EE1	51	Instrument Panel Wire and Instrument Panel Wire (Instrument Panel RH)

: **Ground Points**

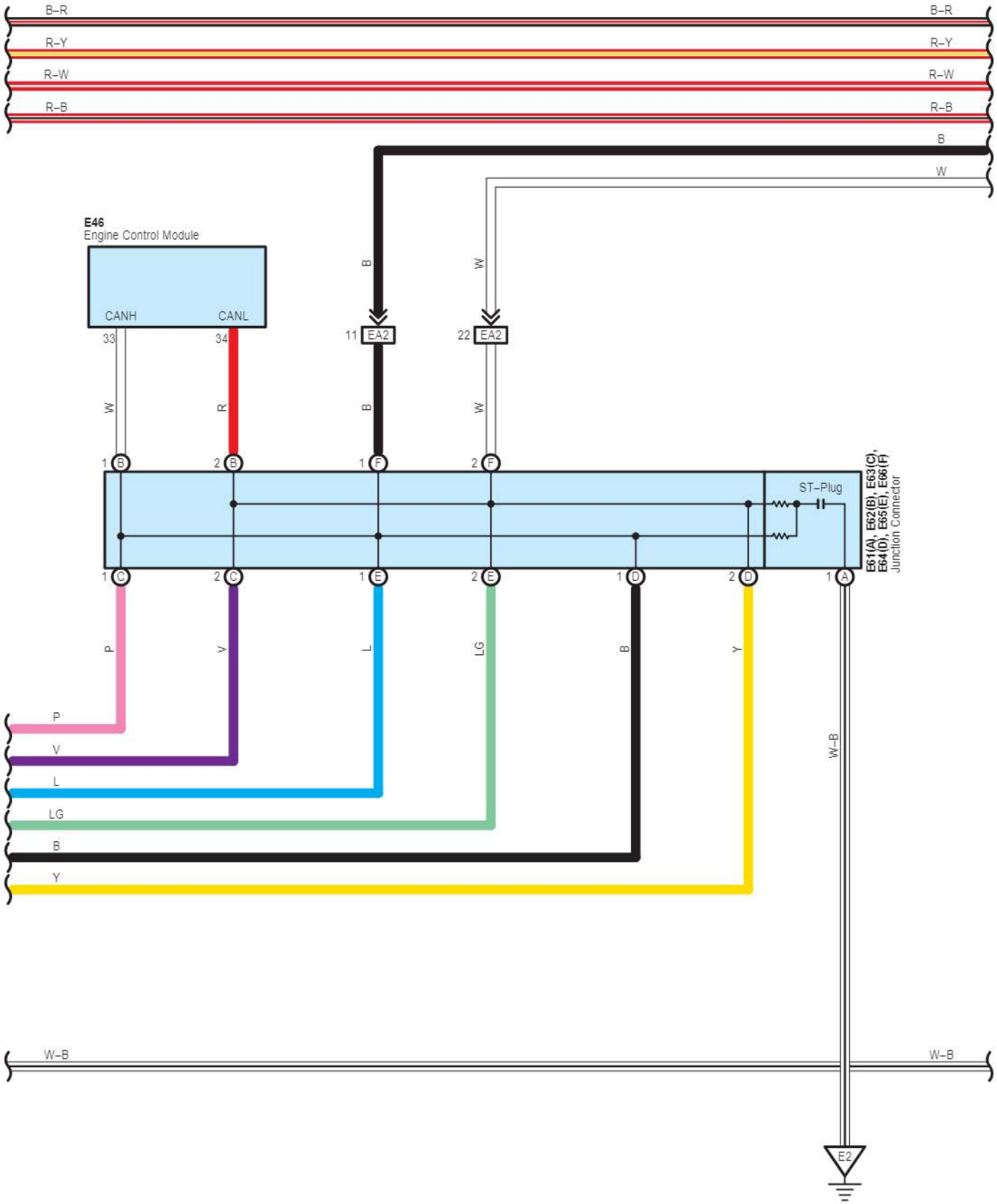
Code	See Page	Ground Points Location
A1	50	Left Fender Apron
B1	50	Rear Side of Right Bank Cylinder Block
B2		
B3	50	Rear Side of Left Bank Cylinder Block
B4		
E2	51	Instrument Panel Brace LH
E4	51	Left Kick Panel

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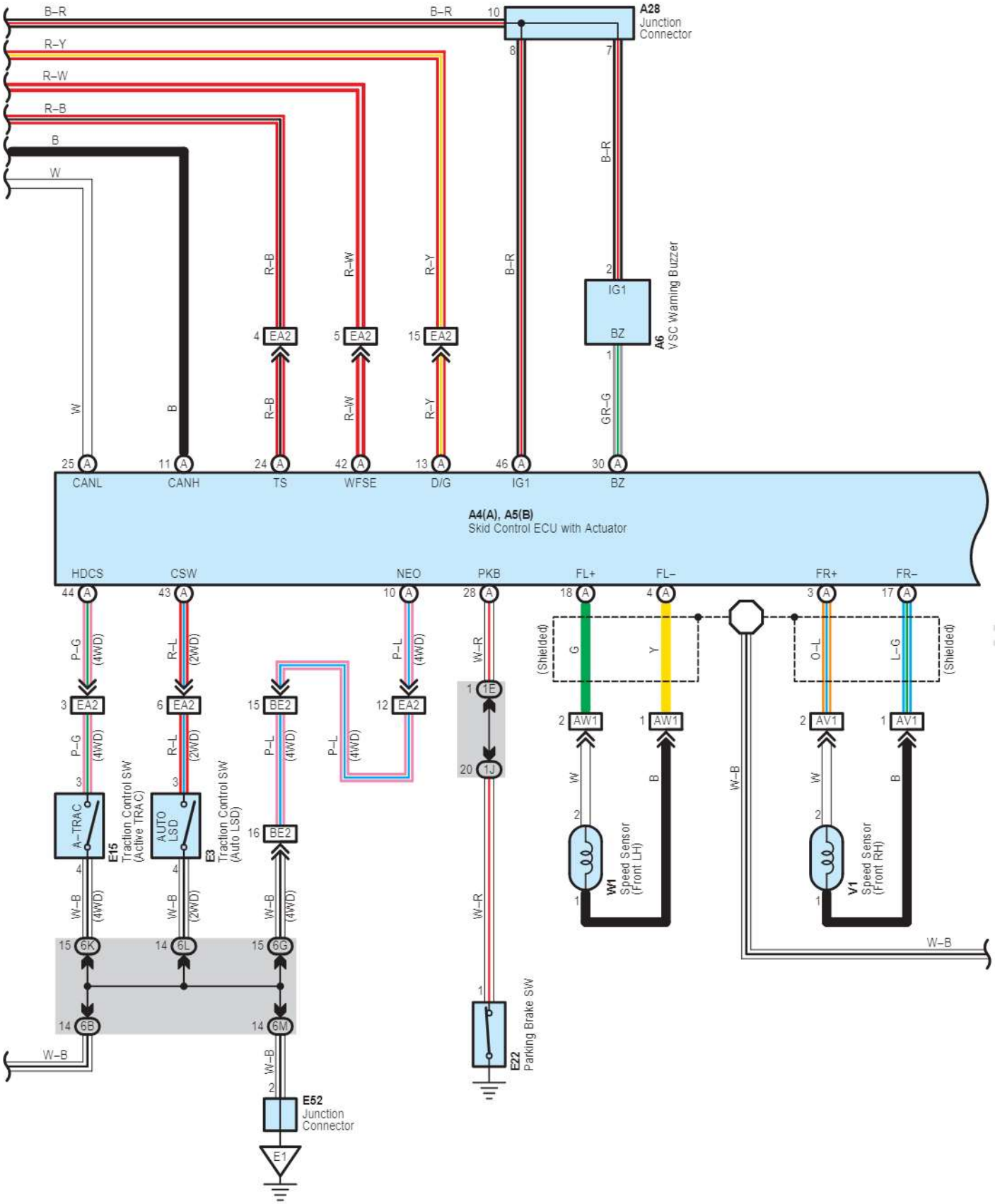
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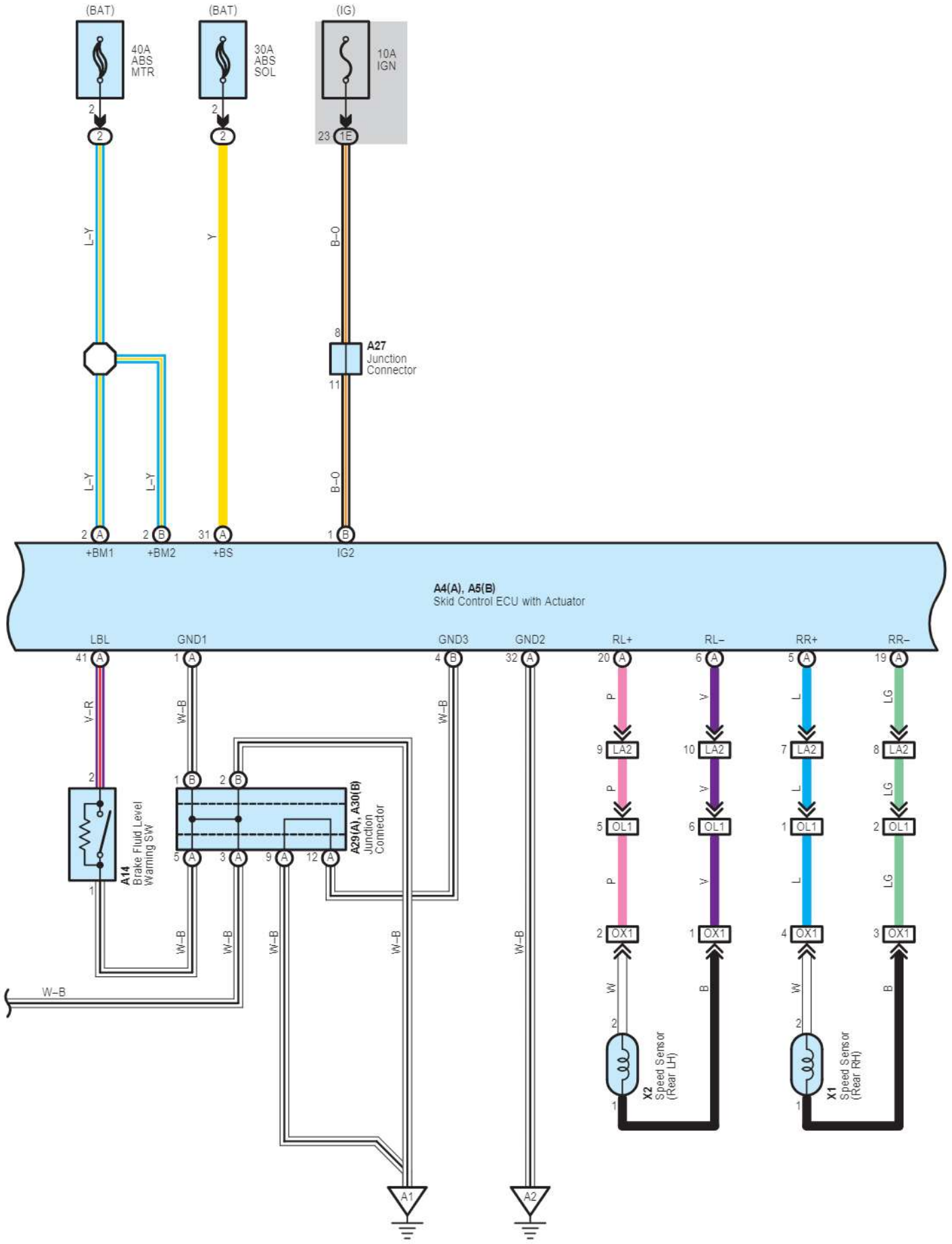
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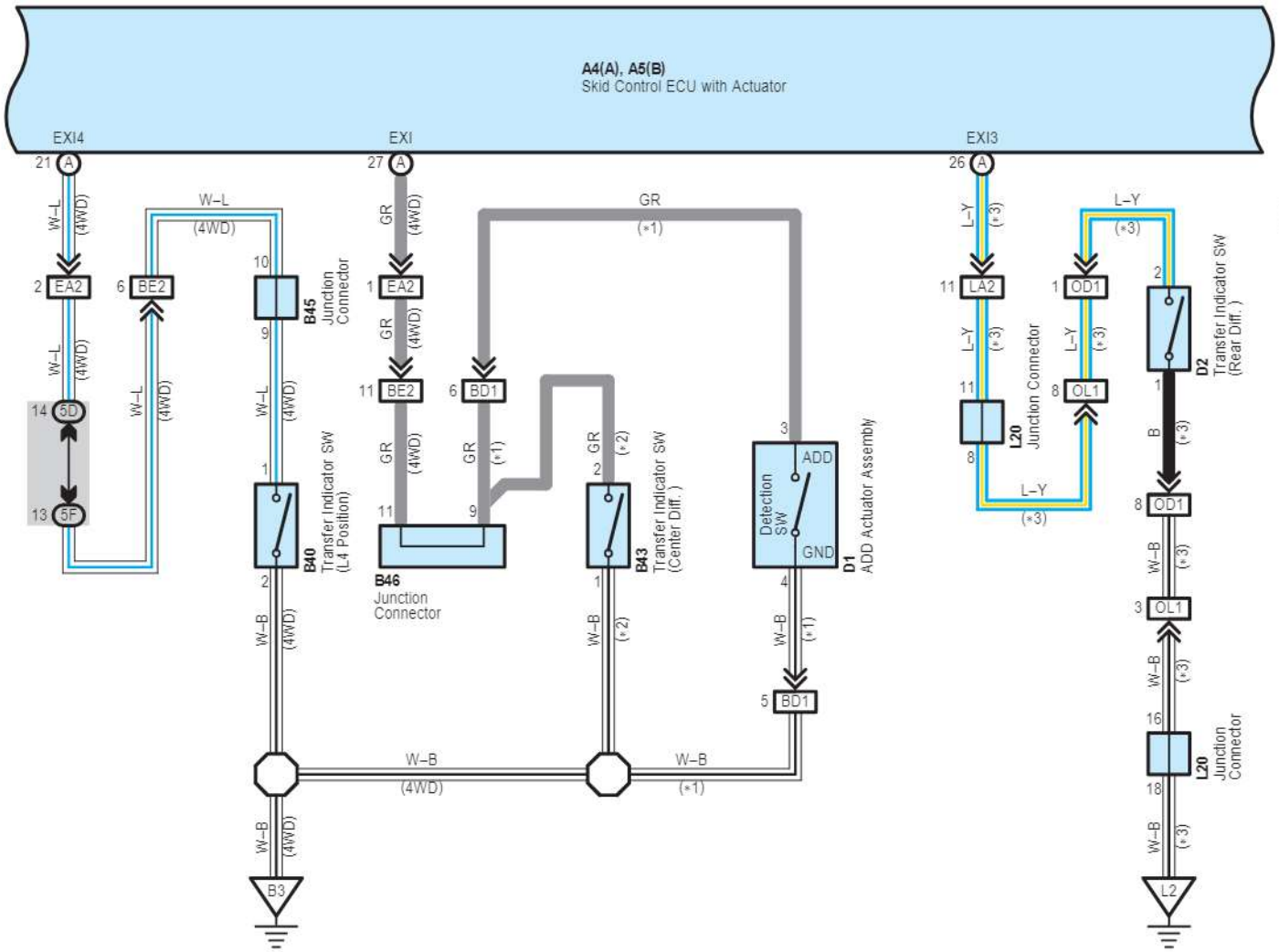
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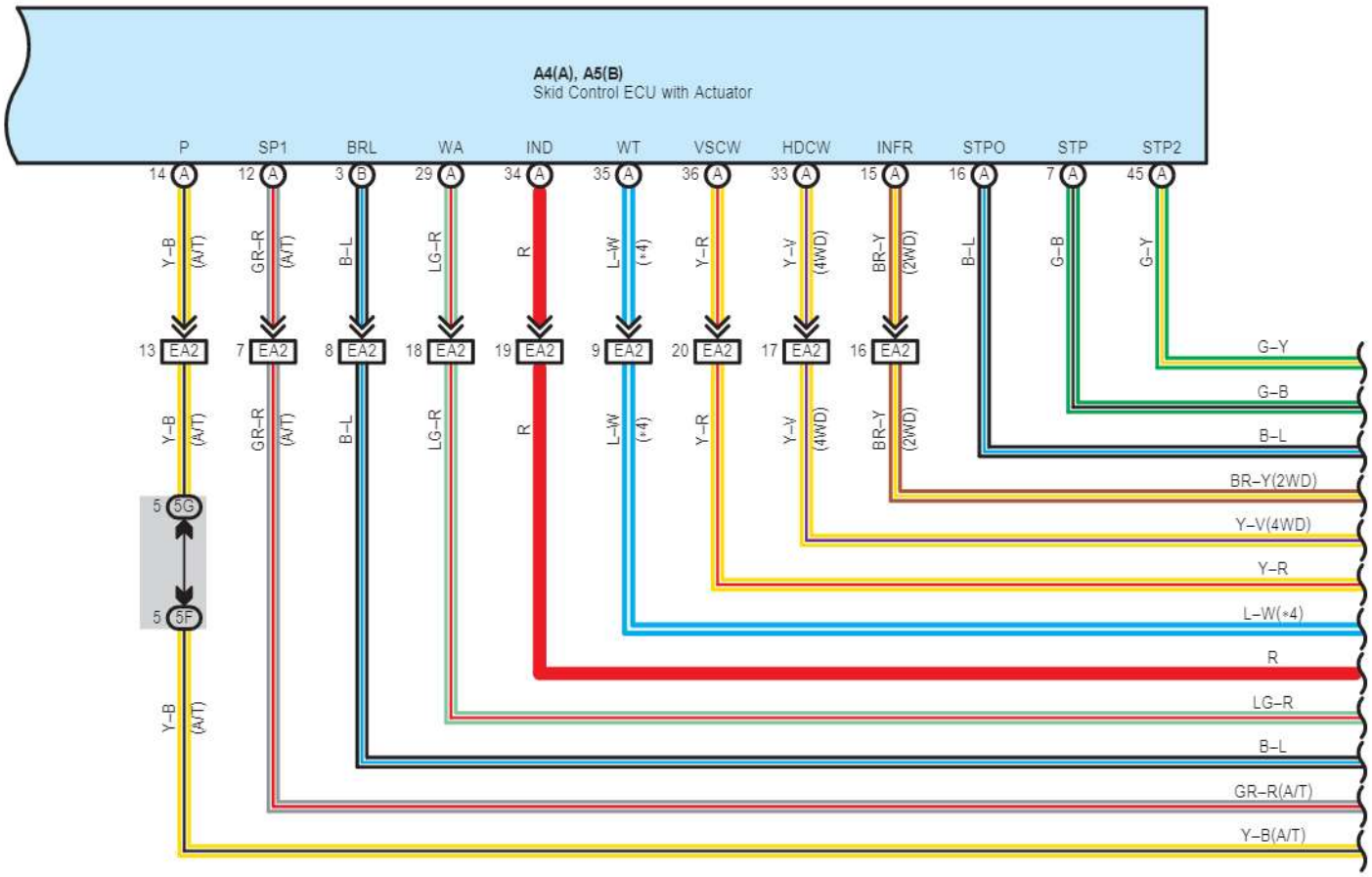


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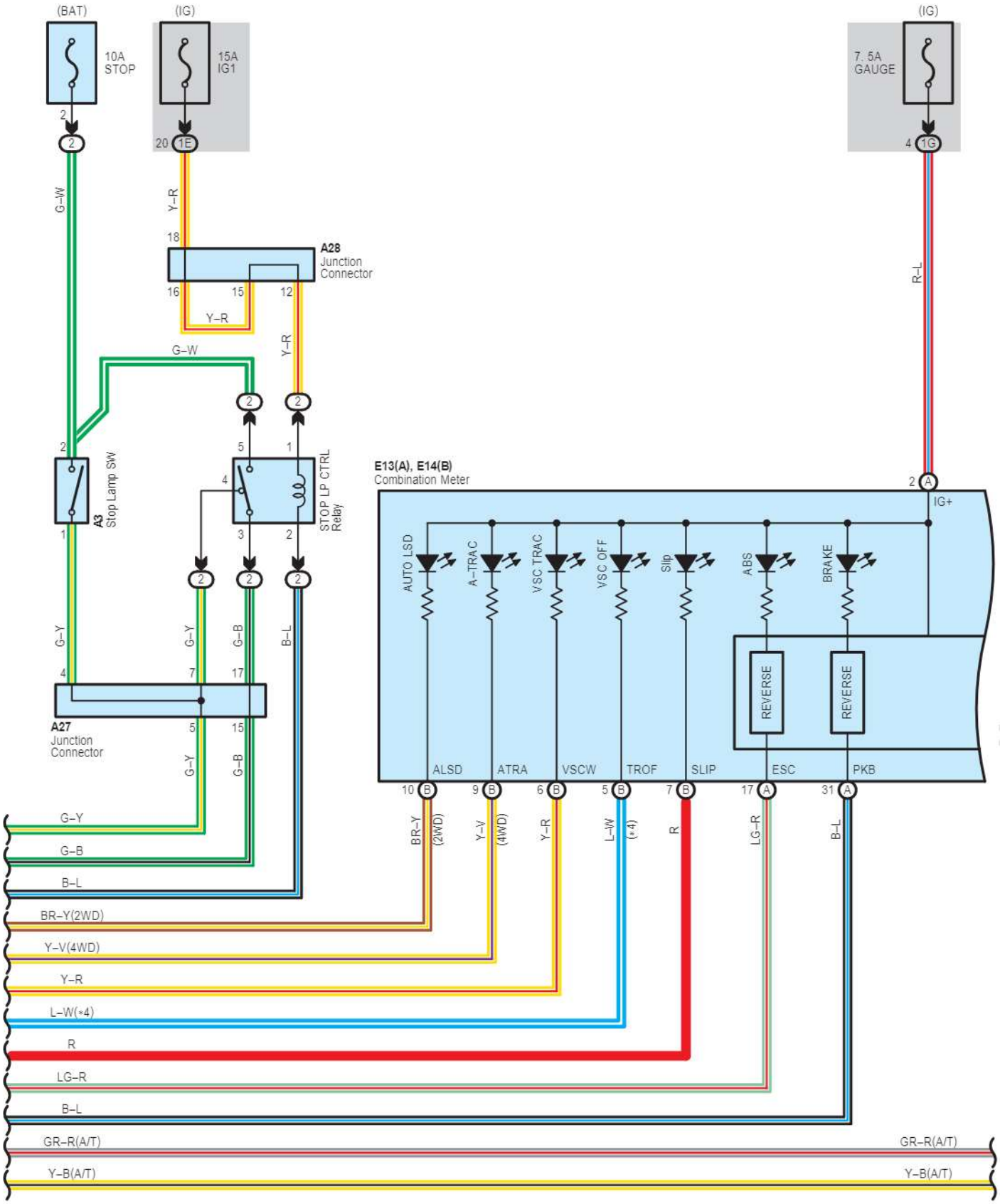


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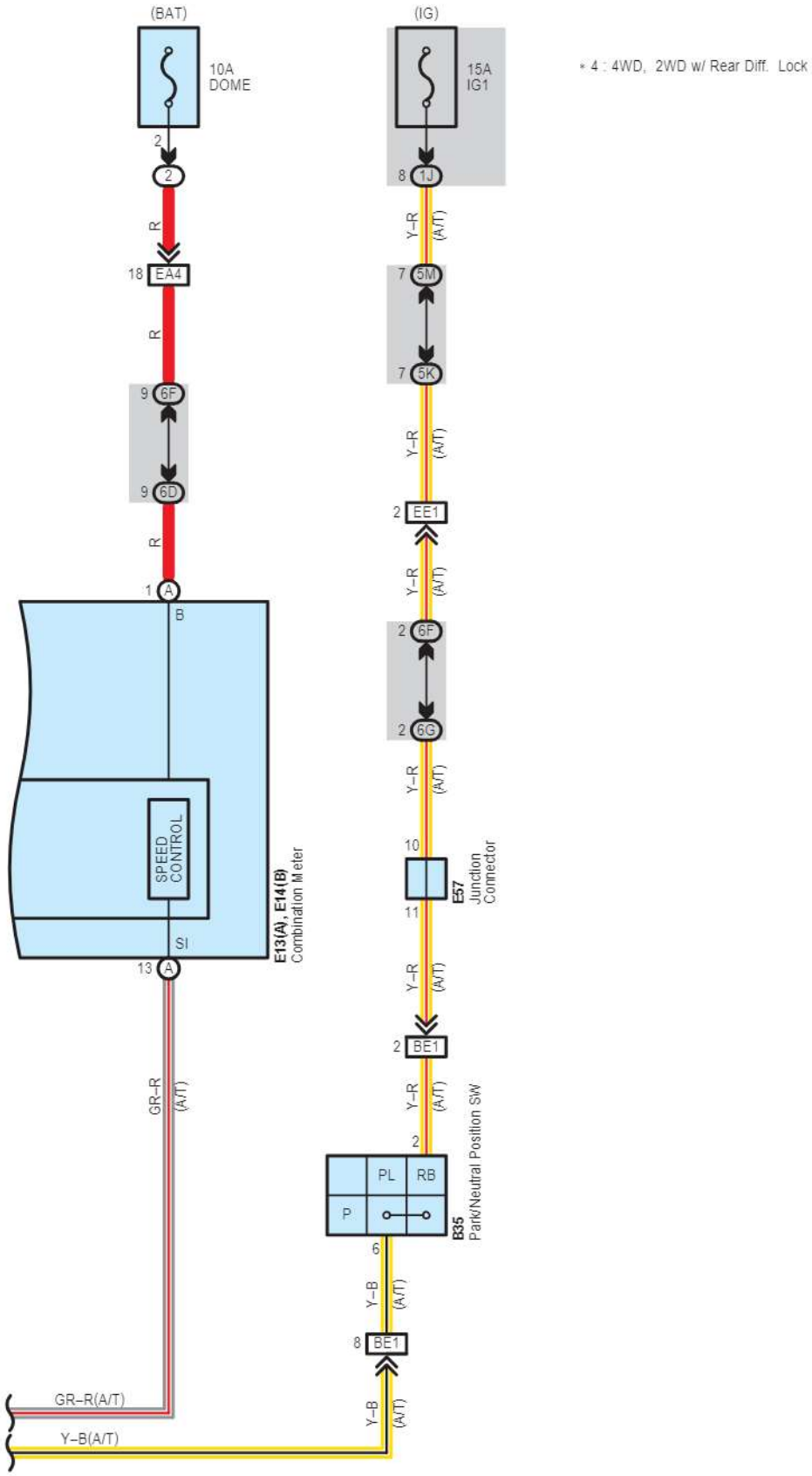
* 1 : A/T 4WD
* 2 : M/T 4WD
* 3 : w/ Rear Diff. Lock
* 4 : 4WD, 2WD w/ Rear Diff. Lock



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System Outline

1. VSC (Vehicle Stability Control)

It is a system to prevent unstable behavior of the vehicle by controlling the brake of each wheel and engine output automatically after detecting skid caused by sudden steering operation and on slippery roads with the sensors.
VSC is not a system to enhance vehicle's marginal performance but to return the vehicle state back to the stable operation range when it enters in the operation marginal range.

2. ABS with EBD (Electronic Brake Force Distribution)

ABS detects the wheel speed at braking and prevents the tire lock at braking by controlling brake fluid pressure of the four wheels automatically. It is a system to ensure vehicle's stability and steering effect. By preventing the tire lock, cornering force is used efficiently.
ABS is effective to avoid the risk when the vehicle is steered during braking and the spin when the vehicle is braked with one side wheels on icy road and the other on asphalt road.
Besides conventional ABS functions, ABS with EBD controls appropriate brake force distribution between front and rear wheels, and left and right wheels regardless of load change such as vehicle weight with and without load, which ensures good braking performance

3. Brake Assist

The brake assist system interprets a quick push of the brake pedal as emergency braking and supplements the brake power applied if the driver has not stepped hard enough on the brake pedal.

4. Active TRAC (4WD)

In active traction control system, brake fluid pressure is controlled on slipped wheels by acceleration with 4WD in off–road driving and driving force which may be lost by acceleration slip is distributed to each wheels, resulting in excellent LSD effect.

5. TRAC

It is a function to ensure vehicle stability and driving force by preventing the drive wheels from slipping when starting off or accelerating on a slippery surface by controlling the brake fluid pressure and engine output automatically.

6. Auto LSD (2WD)

Auto LSD fulfills LSD functions by using the TRAC system. Comparing with TRAC, it controls focusing on how easily the vehicle can get out of the stuck condition and ensures to get out when one tire comes off the ground and to start off on roads with large travel resistance such as sandy roads.

○ : Parts Location

Code	See Page	Code	See Page	Code	See Page
A3	45	D1	41	E57	44
A4 A	38	D2	47	E61 A	36, 44
A5 B	38	E1	42	E62 B	36, 44
A6	45	E3	42	E63 C	36, 44
A14	38	E13 A	42	E64 D	36, 44
A27	45	E14 B	42	E65 E	36, 44
A28	38	E15	42	E66 F	36, 44
A29 A	38	E16	42	L20	46
A30 B	38	E22	42	V1	41
B35	40	E34	43	W1	41
B40	40	E46	43	X1	47
B43	40	E50 A	44	X2	47
B45	45	E51 B	44		
B46	45	E52	44		

▭ : Relay Blocks

Code	See Page	Relay Blocks (Relay Block Location)
2	22	Engine Room R/B No.2 (Engine Compartment Left)

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: Junction Block and Wire Harness Connector

Code	See Page	Junction Block and Wire Harness (Connector Location)
1B	24	Engine Room Main Wire and Driver Side J/B (Lower Finish Panel)
1E		
1G	25	Instrument Panel Wire and Driver Side J/B (Lower Finish Panel)
1J		
1L		
5D	28	Instrument Panel Wire and Center J/B LH (Instrument Panel LH)
5F		
5G		
5K		
5M		
5N		
6B	32	Instrument Panel Wire and Center J/B RH (Instrument Panel RH)
6D		
6F		
6G		
6K		
6L		
6M		

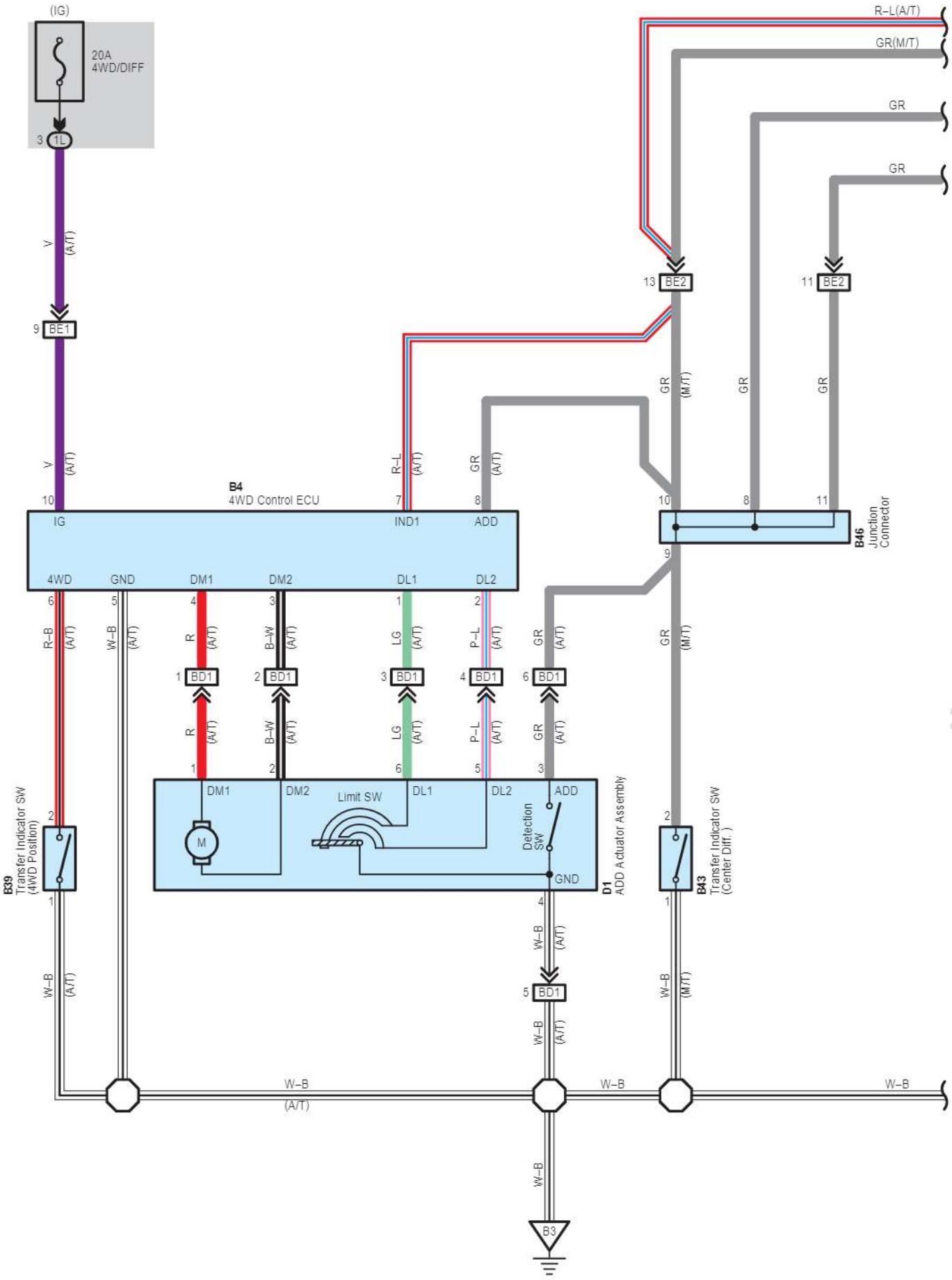
: Connector Joining Wire Harness and Wire Harness

Code	See Page	Joining Wire Harness and Wire Harness (Connector Location)
AV1	50	Engine Room Main Wire and Skid Control Sensor Front RH Wire (Right Fender Apron)
AW1	50	Engine Room Main Wire and Skid Control Sensor Front LH Wire (Near the Engine Room R/B No.2)
BD1	50	Engine Wire and Differential Wire (Near the Front Differential)
BE1	51	Engine Wire and Instrument Panel Wire (Upper the Glove Box)
BE2		
EA2	51	Instrument Panel Wire and Engine Room Main Wire (Left Kick Panel)
EA4		
EE1	51	Instrument Panel Wire and Instrument Panel Wire (Instrument Panel RH)
LA2	51	Floor No.2 Wire and Engine Room Main Wire (Left Kick Panel)
OD1	52	Frame Wire and Differential Wire (No.6 Crossmember)
OL1	52	Frame Wire and Floor No.2 Wire (Under the Rear Seat)
OX1	52	Frame Wire and Skid Control Sensor Rear Wire (No.5 Crossmember)

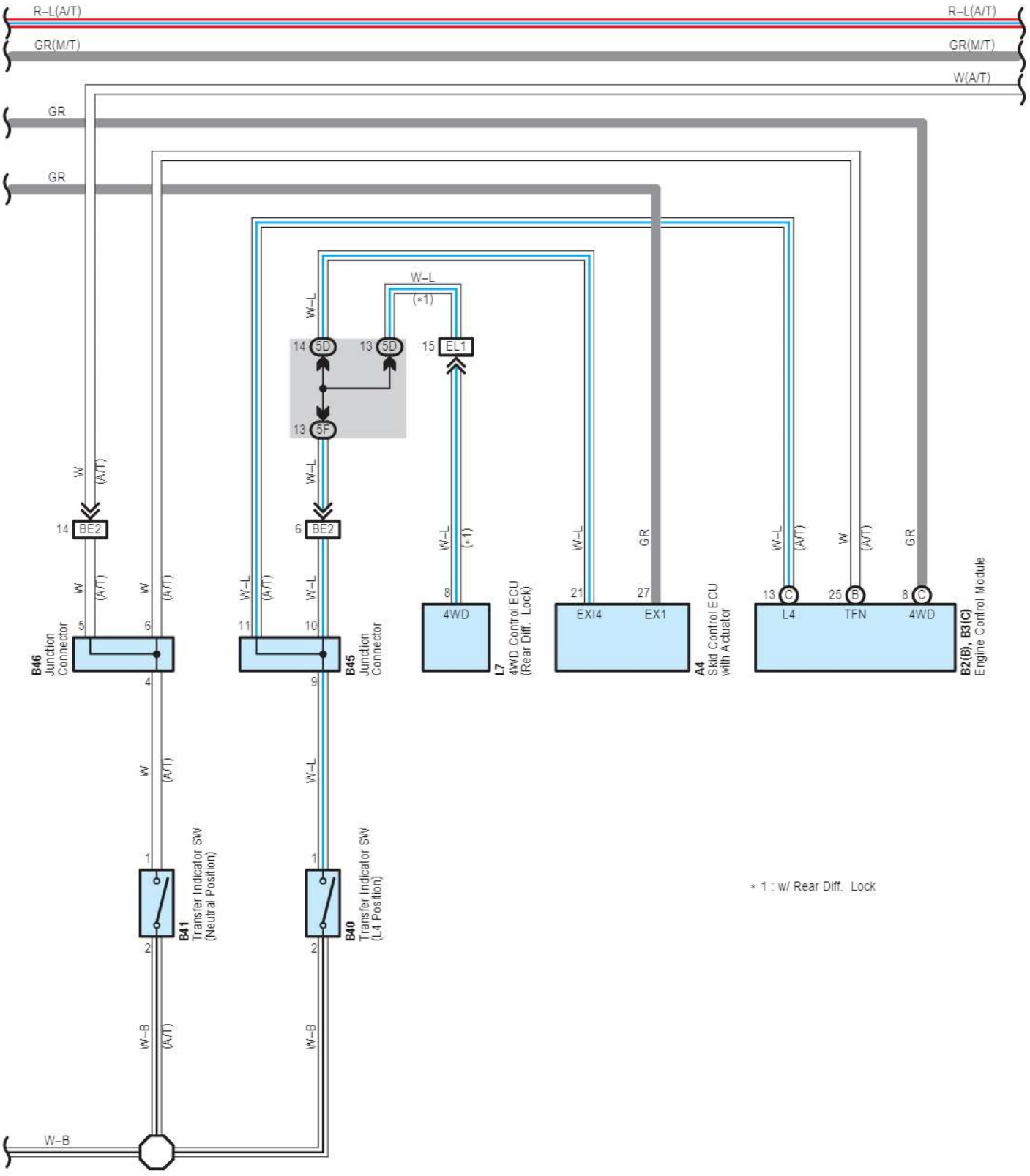
: Ground Points

Code	See Page	Ground Points Location
A1	50	Left Fender Apron
A2	50	Right Fender Apron
B3	50	Rear Side of Left Bank Cylinder Block
E1	51	Instrument Panel Brace RH
E2	51	Instrument Panel Brace LH
E4	51	Left Kick Panel
L2	52	Left Quarter Panel

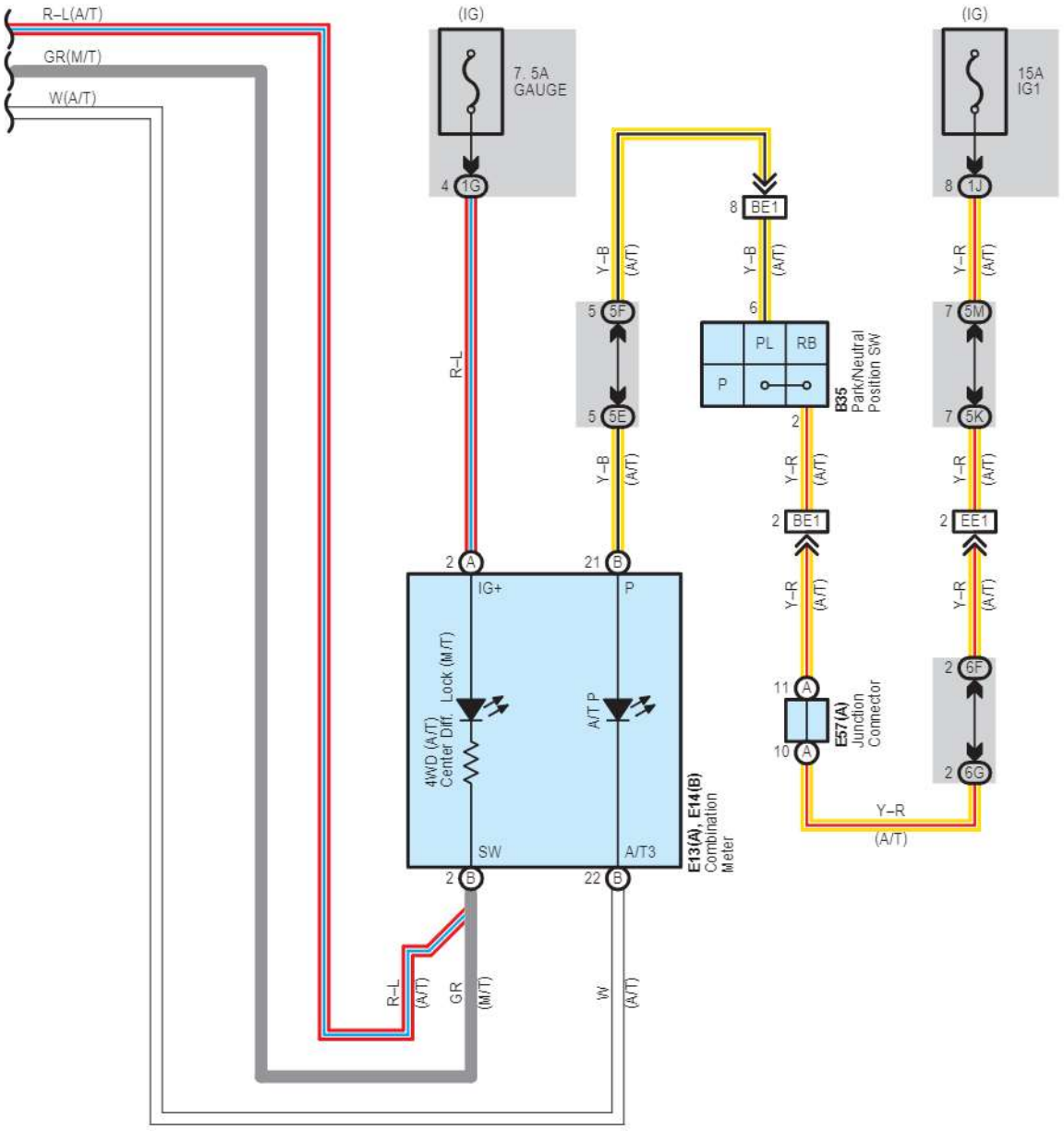
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○ : Parts Location

Code	See Page	Code	See Page	Code	See Page
A4	38	B40	40	E13 A	42
B2 B	45	B41	40	E14 B	42
B3 C	45	B43	40	E57 A	44
B4	45	B45	45	L7	45
B35	40	B46	45		
B39	40	D1	41		

⬭ : Junction Block and Wire Harness Connector

Code	See Page	Junction Block and Wire Harness (Connector Location)
1G	25	Instrument Panel Wire and Driver Side J/B (Lower Finish Panel)
1J		
1L		
5D	28	Instrument Panel Wire and Center J/B LH (Instrument Panel LH)
5E		
5F		
5K		
5M		
6F	32	Instrument Panel Wire and Center J/B RH (Instrument Panel RH)
6G		

▭ : Connector Joining Wire Harness and Wire Harness

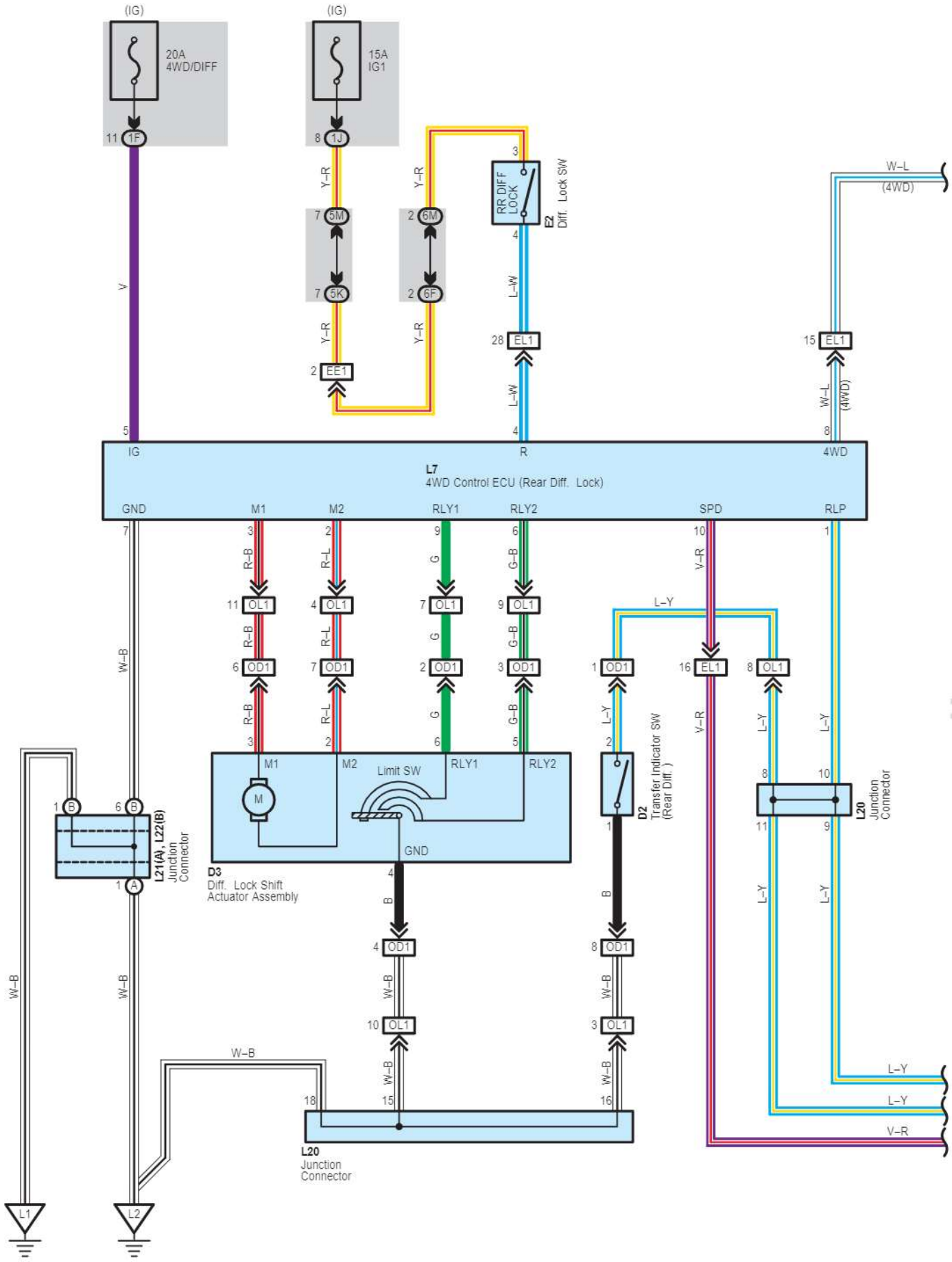
Code	See Page	Joining Wire Harness and Wire Harness (Connector Location)
BD1	50	Engine Wire and Differential Wire (Near the Front Differential)
BE1	51	Engine Wire and Instrument Panel Wire (Upper the Glove Box)
BE2		
EE1	51	Instrument Panel Wire and Instrument Panel Wire (Instrument Panel RH)
EL1	51	Instrument Panel Wire and Floor No.2 Wire (Left Kick Panel)

▽ : Ground Points

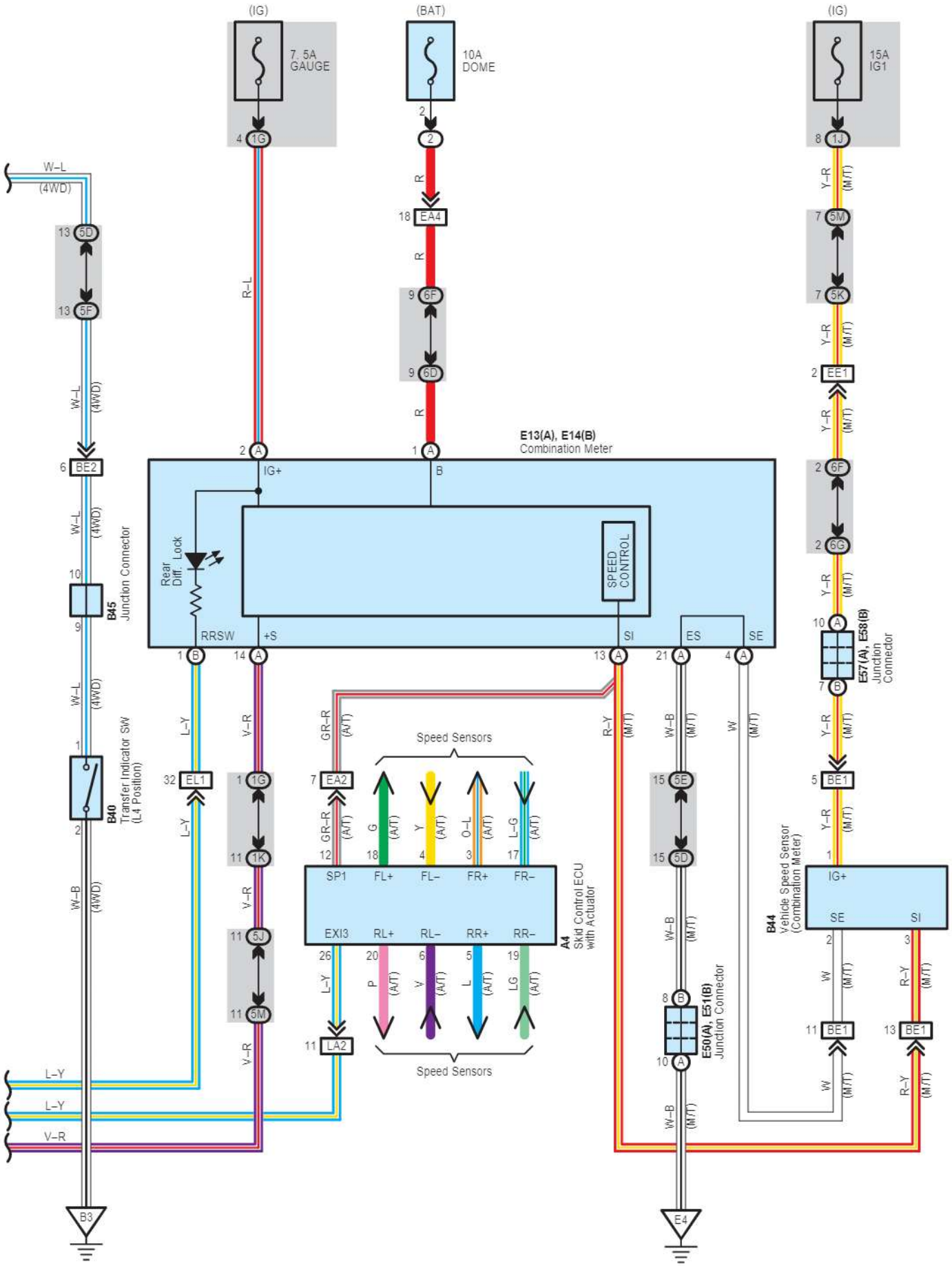
Code	See Page	Ground Points Location
B3	50	Rear Side of Left Bank Cylinder Block

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Rear Differential Lock



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Rear Differential Lock

○ : Parts Location

Code	See Page	Code	See Page	Code	See Page
A4	38	E2	42	E58 B	44
B40	40	E13 A	42	L7	45
B44	40	E14 B	42	L20	46
B45	45	E50 A	44	L21 A	46
D2	47	E51 B	44	L22 B	46
D3	47	E57 A	44		

⬭ : Relay Blocks

Code	See Page	Relay Blocks (Relay Block Location)
2	22	Engine Room R/B No.2 (Engine Compartment Left)

⬭ : Junction Block and Wire Harness Connector

Code	See Page	Junction Block and Wire Harness (Connector Location)
1F	24	Floor No.2 Wire and Driver Side J/B (Lower Finish Panel)
1G	25	Instrument Panel Wire and Driver Side J/B (Lower Finish Panel)
1J		
1K		
5D	28	Instrument Panel Wire and Center J/B LH (Instrument Panel LH)
5E		
5F		
5J		
5K		
5M		
6D	32	Instrument Panel Wire and Center J/B RH (Instrument Panel RH)
6F		
6G		
6M		

▭ : Connector Joining Wire Harness and Wire Harness

Code	See Page	Joining Wire Harness and Wire Harness (Connector Location)
BE1	51	Engine Wire and Instrument Panel Wire (Upper the Glove Box)
BE2		
EA2	51	Instrument Panel Wire and Engine Room Main Wire (Left Kick Panel)
EA4		
EE1	51	Instrument Panel Wire and Instrument Panel Wire (Instrument Panel RH)
EL1	51	Instrument Panel Wire and Floor No.2 Wire (Left Kick Panel)
LA2	51	Floor No.2 Wire and Engine Room Main Wire (Left Kick Panel)
OD1	52	Frame Wire and Differential Wire (No.6 Crossmember)
OL1	52	Frame Wire and Floor No.2 Wire (Under the Rear Seat)

▽ : Ground Points

Code	See Page	Ground Points Location
B3	50	Rear Side of Left Bank Cylinder Block
E4	51	Left Kick Panel
L1	52	Floor Seat Crossmember LH
L2	52	Left Quarter Panel

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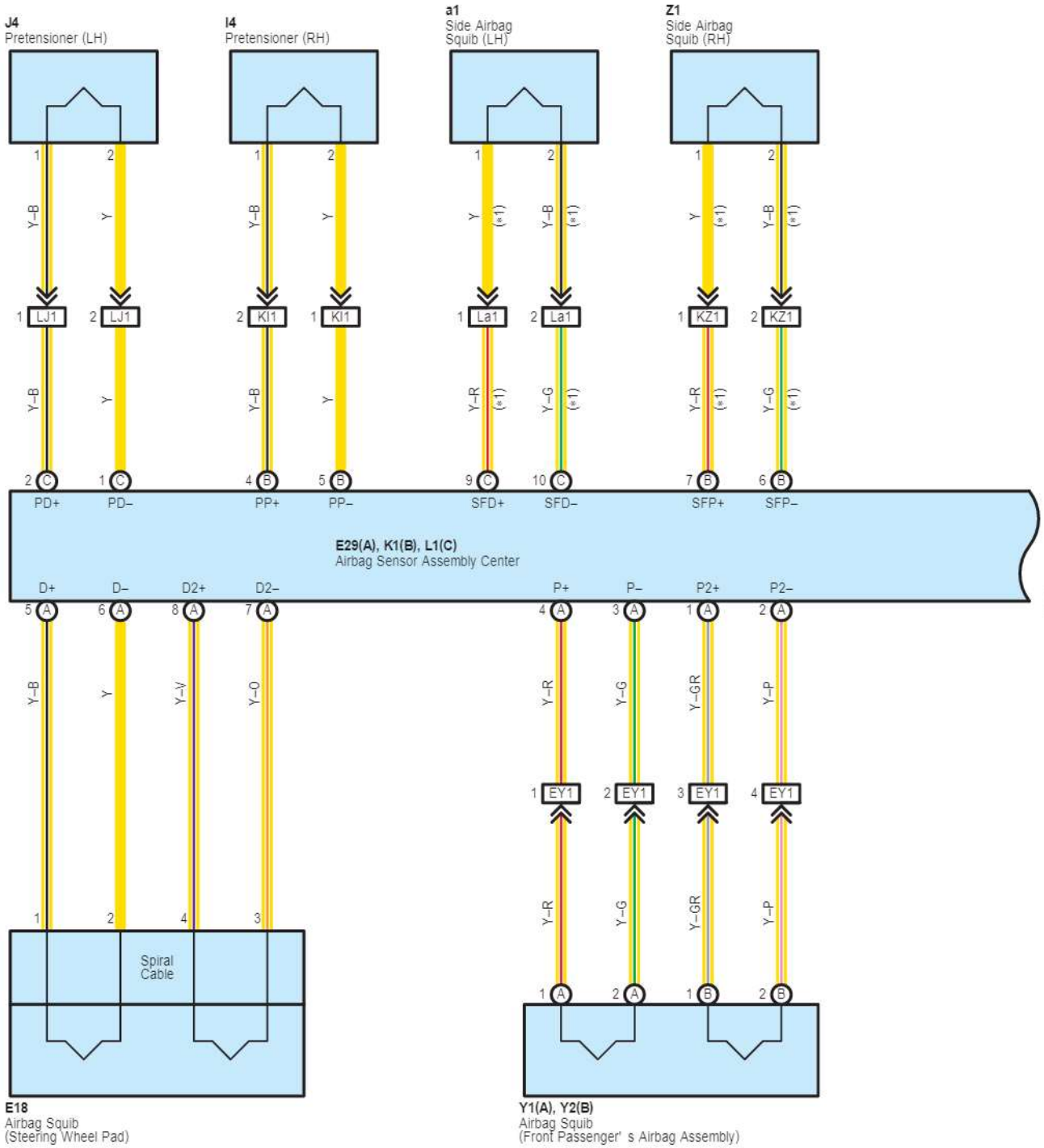
NOTICE: When inspecting or repairing the SRS, perform service in accordance with the following precautionary instructions and the procedure, and precautions in the Repair Manual applicable for the model year.

- 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 kΩ/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.

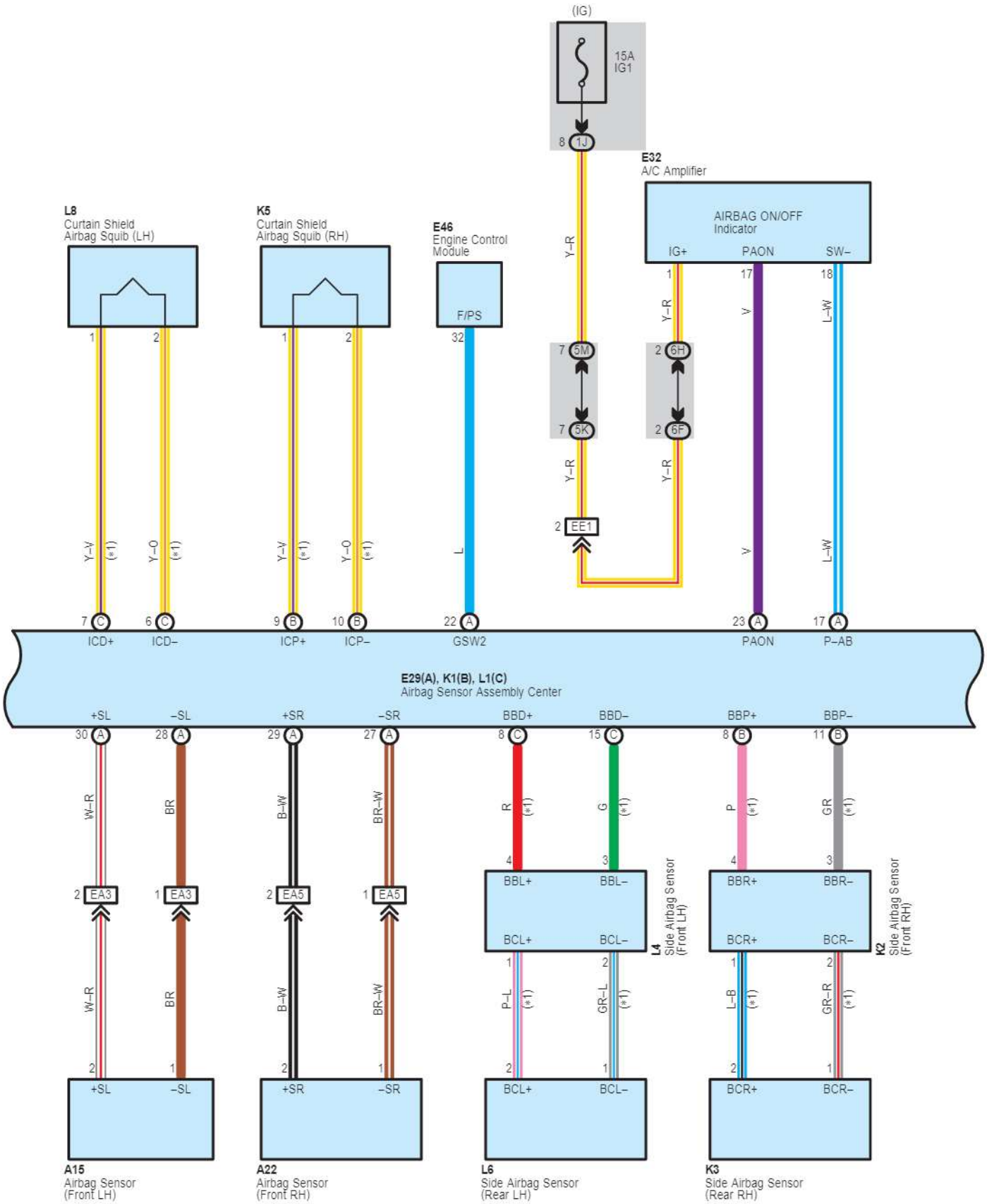
* Steering wheel pad
* Front passenger airbag assembly
* Side airbag assembly
* Curtain shield airbag assembly
* Seat belt pretensioner
* Center airbag sensor assembly
* Front airbag sensor assembly
* Side airbag sensor assembly
* Rear airbag sensor assembly

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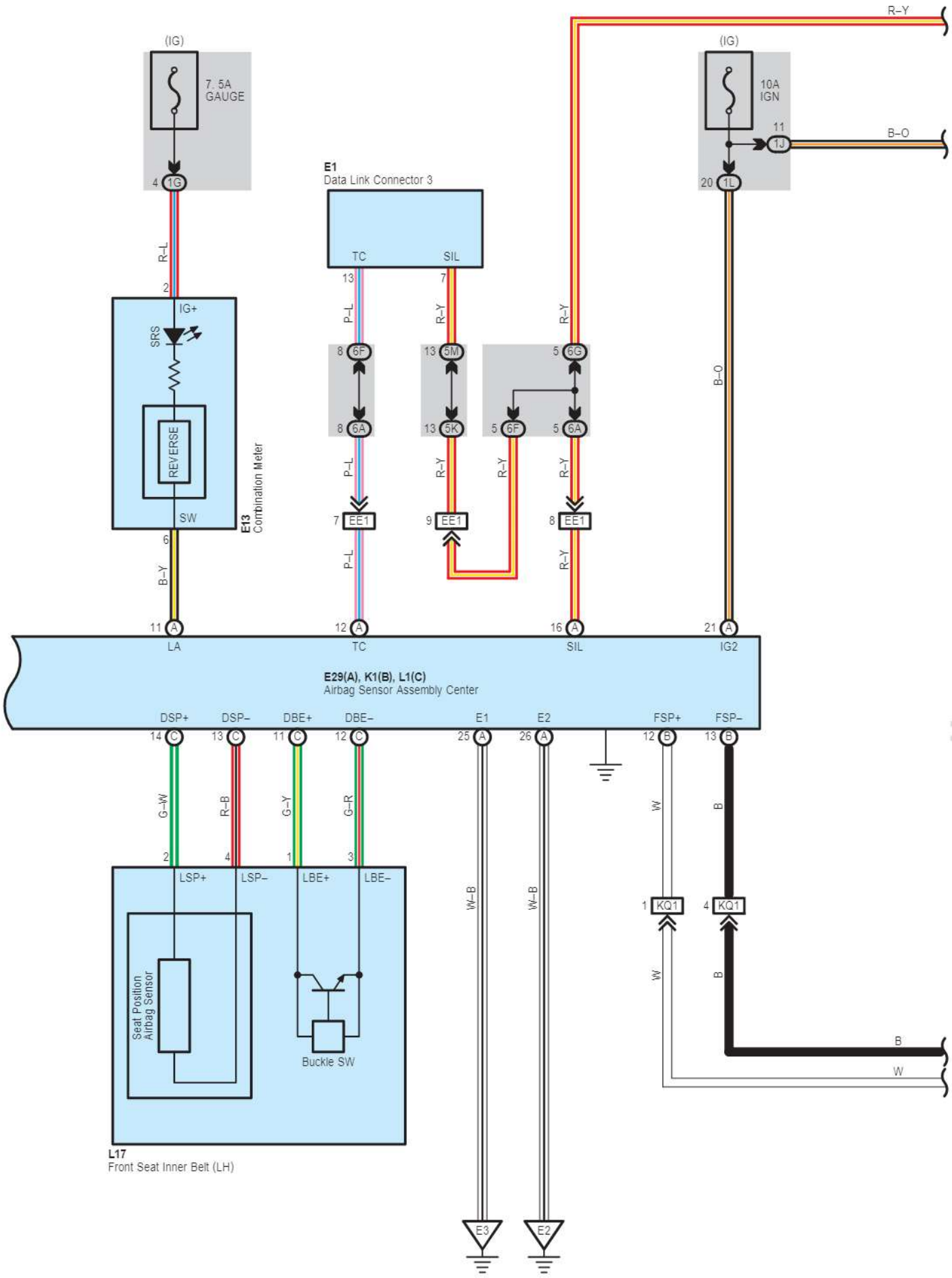
* 1 : w/ Side Airbag



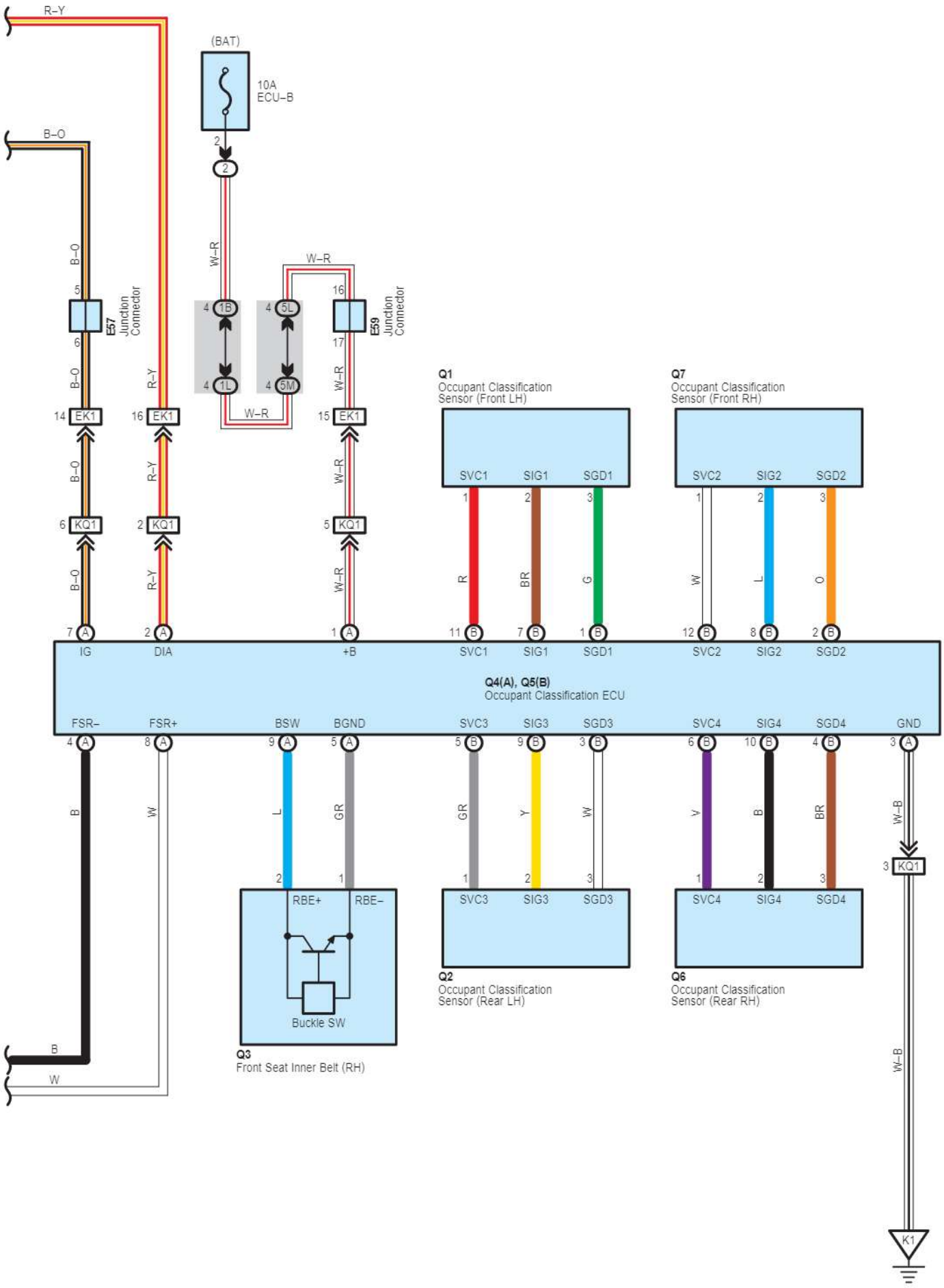
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System Outline

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

○ : Parts Location

Code	See Page	Code	See Page	Code	See Page
A15	38	J4	47	Q2	48
A22	38	K1 B	45	Q3	48
E1	42	K2	46	Q4 A	48
E13	42	K3	46	Q5 B	48
E18	42	K5	46	Q6	48
E29 A	43	L1 C	45	Q7	48
E32	43	L4	46	Y1 A	45
E46	43	L6	46	Y2 B	45
E57	44	L8	46	Z1	48
E59	44	L17	48	a1	48
I4	47	Q1	48		

⬭ : Relay Blocks

Code	See Page	Relay Blocks (Relay Block Location)
2	22	Engine Room R/B No.2 (Engine Compartment Left)

⬭ : Junction Block and Wire Harness Connector

Code	See Page	Junction Block and Wire Harness (Connector Location)
1B	24	Engine Room Main Wire and Driver Side J/B (Lower Finish Panel)
1G	25	Instrument Panel Wire and Driver Side J/B (Lower Finish Panel)
1J		
1L		
5K	28	Instrument Panel Wire and Center J/B LH (Instrument Panel LH)
5L		
5M		
6A	32	Instrument Panel Wire and Center J/B RH (Instrument Panel RH)
6F		
6G		
6H		

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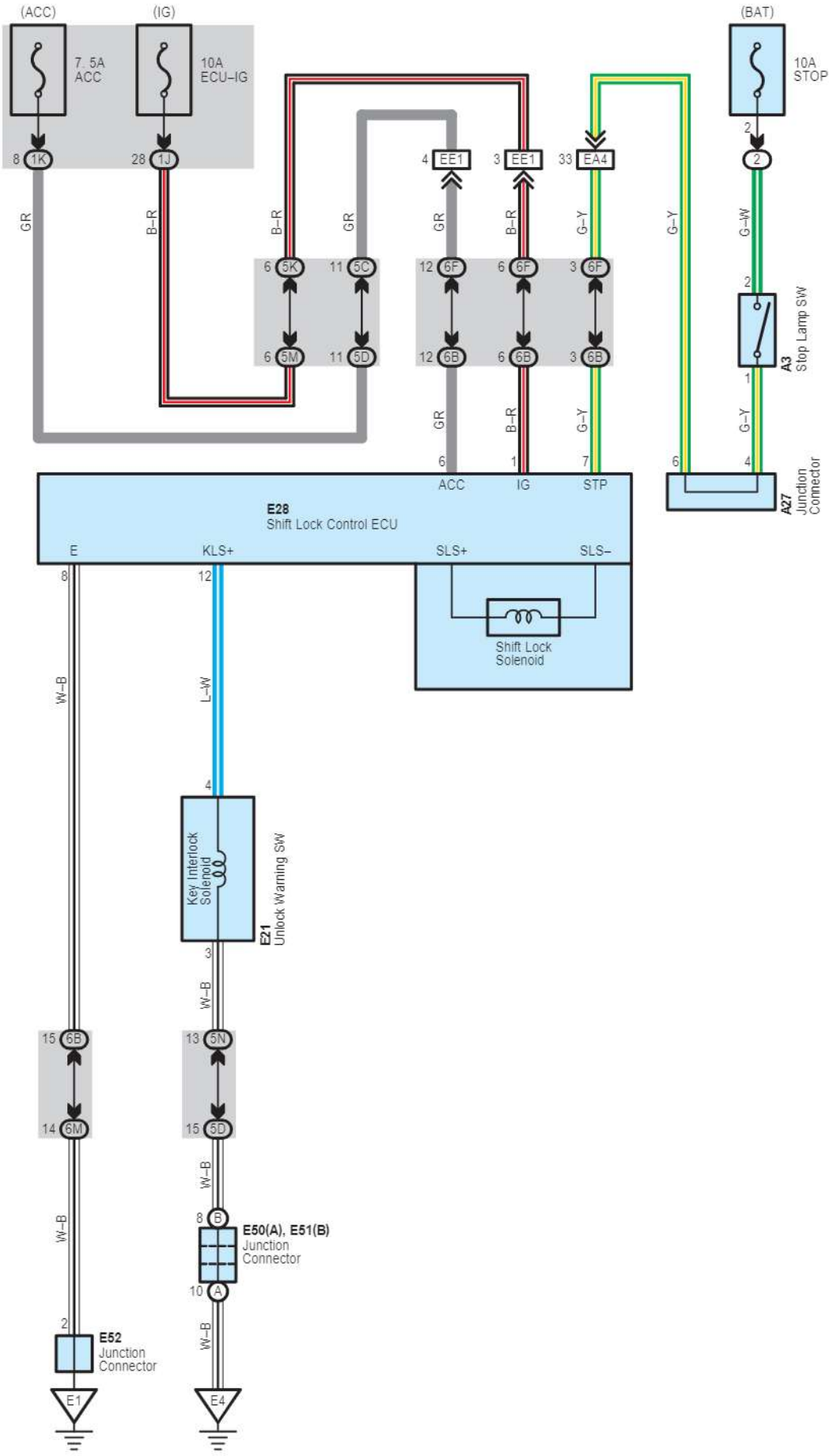
: **Connector Joining Wire Harness and Wire Harness**

Code	See Page	Joining Wire Harness and Wire Harness (Connector Location)
EA3	51	Instrument Panel Wire and Engine Room Main Wire (Left Kick Panel)
EA5	51	Instrument Panel Wire and Engine Room Main Wire (Right Kick Panel)
EE1	51	Instrument Panel Wire and Instrument Panel Wire (Instrument Panel RH)
EK1	51	Instrument Panel Wire and Floor Wire (Right Kick Panel)
EY1	51	Instrument Panel Wire and Instrument Panel Wire Assembly (Upper the Glove Box)
KI1	52	Floor Wire and Rear Door No.1 Wire (Right Quarter Panel)
KQ1	53	Floor Wire and Seat No.1 Wire (Under the Front Seat RH)
KZ1	53	Floor Wire and Seat Airbag RH Wire (Under the Front Seat RH)
LJ1	52	Floor No.2 Wire and Rear Door No.2 Wire (Left Quarter Panel)
La1	53	Floor No.2 Wire and Seat Airbag LH Wire (Under the Front Seat LH)

: **Ground Points**

Code	See Page	Ground Points Location
E2	51	Instrument Panel Brace LH
E3	51	Instrument Panel Brace RH
K1	52	Floor Seat Crossmember RH

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System Outline

When the ignition SW is turned to ACC position the current from the ACC fuse flows to TERMINAL 6 of the shift lock control ECU. When the ignition SW is turned to ON position, the current from the ECU–IG fuse flows to TERMINAL 1 of the shift lock control ECU.

1. Shift Lock Mechanism

If the brake pedal is depressed with the ignition SW set at ON (The stop lamp SW is on), the shift lock control ECU is activated, allowing the driver to change the shift lever to a position other than the P position.

2. Key Interlock Mechanism

With the ignition SW at ON or ACC position, when the shift lever is put in P position, the current flowing from TERMINAL 12 of the shift lock control ECU to key interlock solenoid is cut off. This causes the key interlock solenoid to turn off (Lock lever 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
A3	45	E28		43	E52	44
A27	45	E50	A	44		
E21	42	E51	B	44		

: Relay Blocks

Code	See Page	Relay Blocks (Relay Block Location)
2	22	Engine Room R/B No.2 (Engine Compartment Left)

: Junction Block and Wire Harness Connector

Code	See Page	Junction Block and Wire Harness (Connector Location)
1J	25	Instrument Panel Wire and Driver Side J/B (Lower Finish Panel)
1K		
5C	28	Instrument Panel Wire and Center J/B LH (Instrument Panel LH)
5D		
5K		
5M		
5N		
6B	32	Instrument Panel Wire and Center J/B RH (Instrument Panel RH)
6F		
6M		

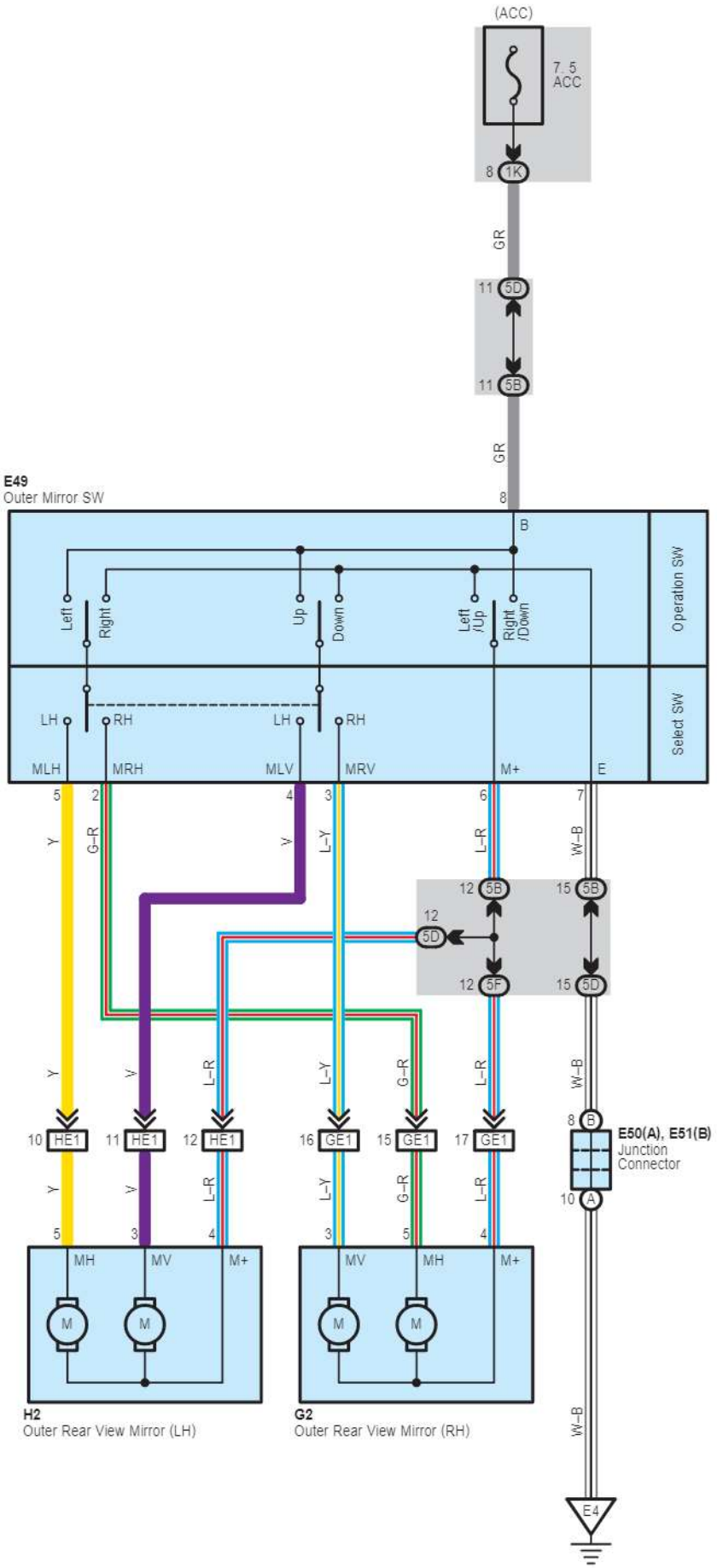
: Connector Joining Wire Harness and Wire Harness

Code	See Page	Joining Wire Harness and Wire Harness (Connector Location)
EA4	51	Instrument Panel Wire and Engine Room Main Wire (Left Kick Panel)
EE1	51	Instrument Panel Wire and Instrument Panel Wire (Instrument Panel RH)

: Ground Points

Code	See Page	Ground Points Location
E1	51	Instrument Panel Brace RH
E4	51	Left Kick Panel

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: Parts Location

Code	See Page	Code	See Page	Code	See Page
E49	43	E51 B	44	H2	47
E50 A	44	G2	47		

: Junction Block and Wire Harness Connector

Code	See Page	Junction Block and Wire Harness (Connector Location)
1K	25	Instrument Panel Wire and Driver Side J/B (Lower Finish Panel)
5B	28	Instrument Panel Wire and Center J/B LH (Instrument Panel LH)
5D		
5F		

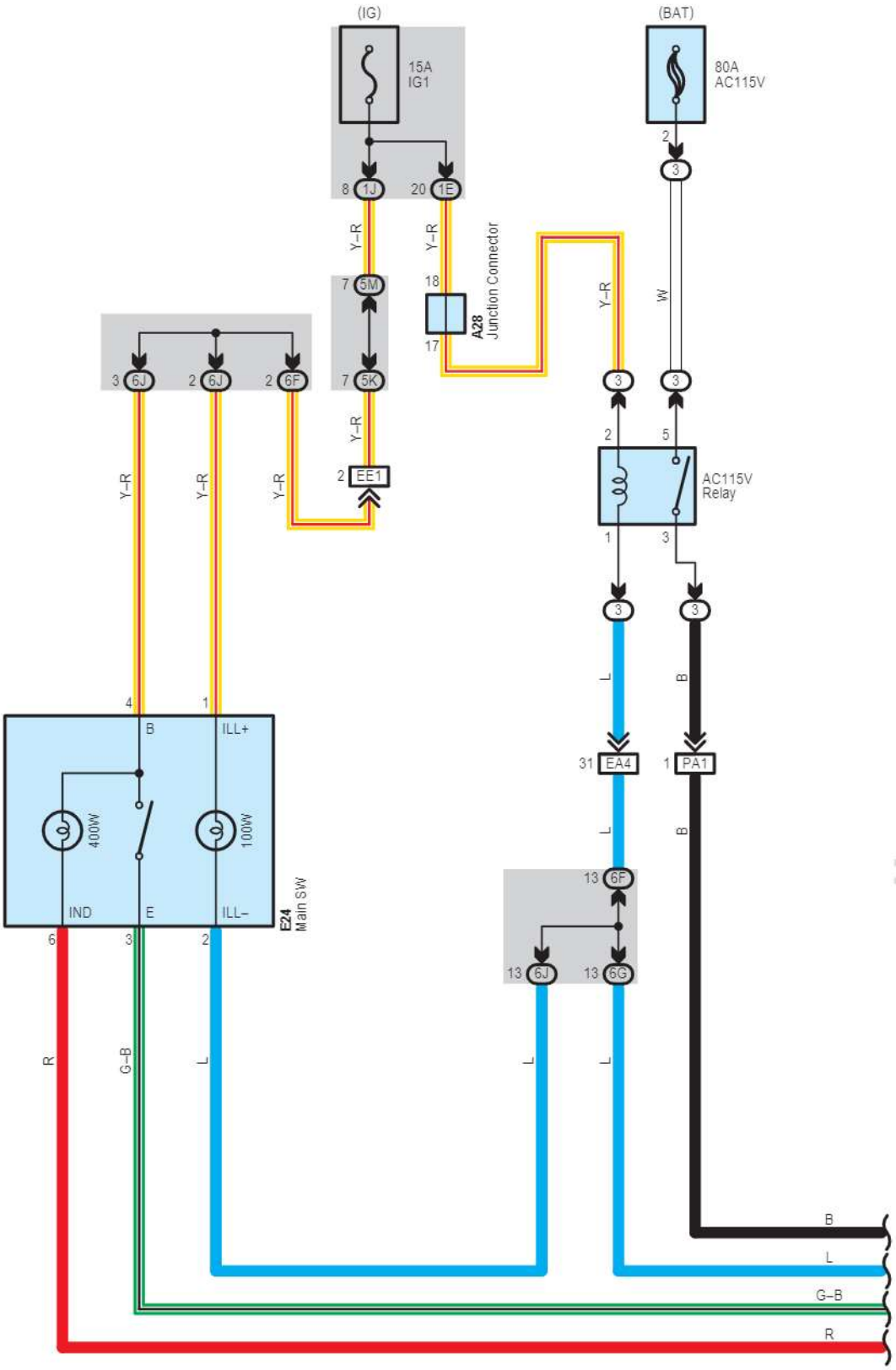
: Connector Joining Wire Harness and Wire Harness

Code	See Page	Joining Wire Harness and Wire Harness (Connector Location)
GE1	51	Front Door RH Wire and Instrument Panel Wire (Right Kick Panel)
HE1	51	Front Door LH Wire and Instrument Panel Wire (Left Kick Panel)

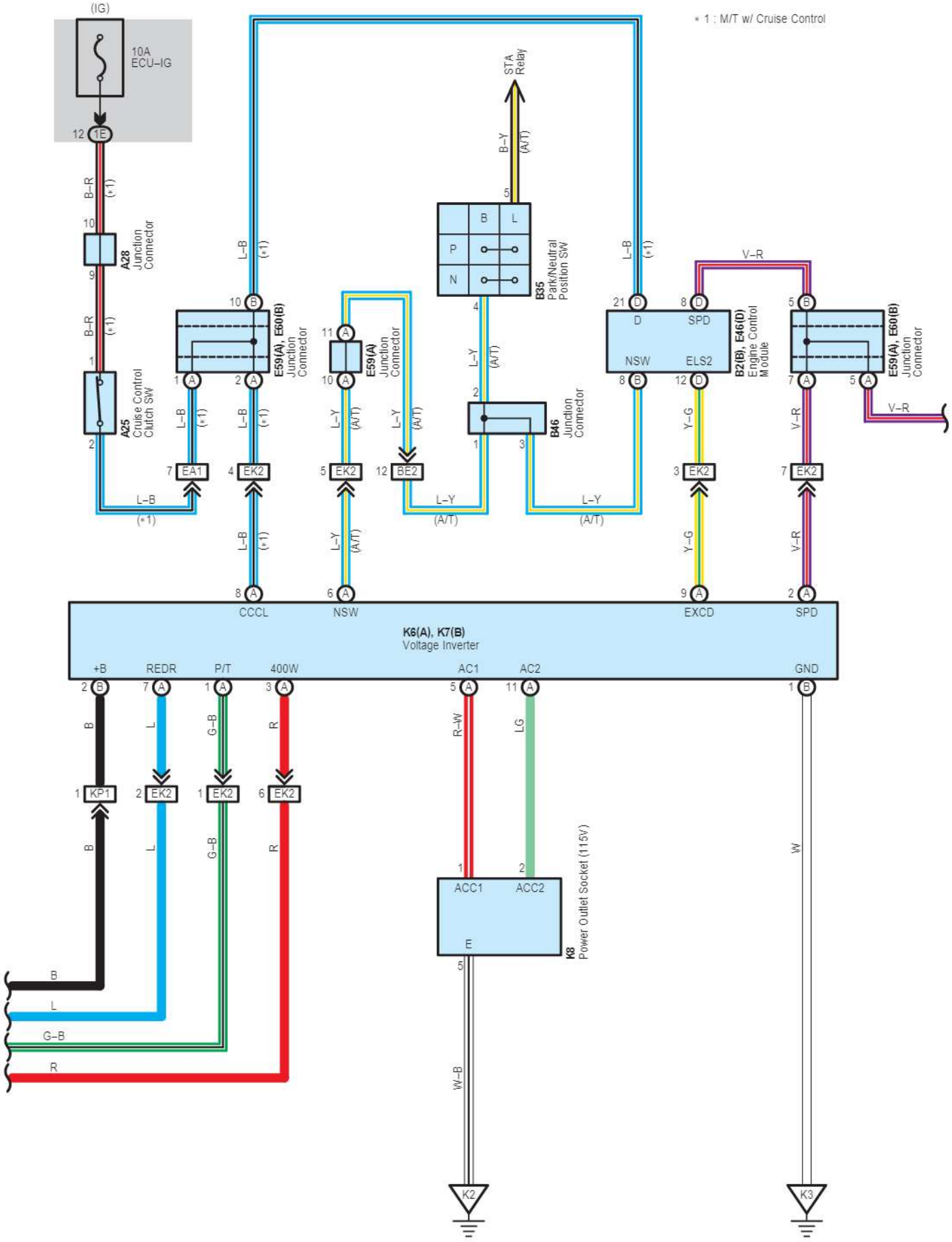
: Ground Points

Code	See Page	Ground Points Location
E4	51	Left Kick Panel

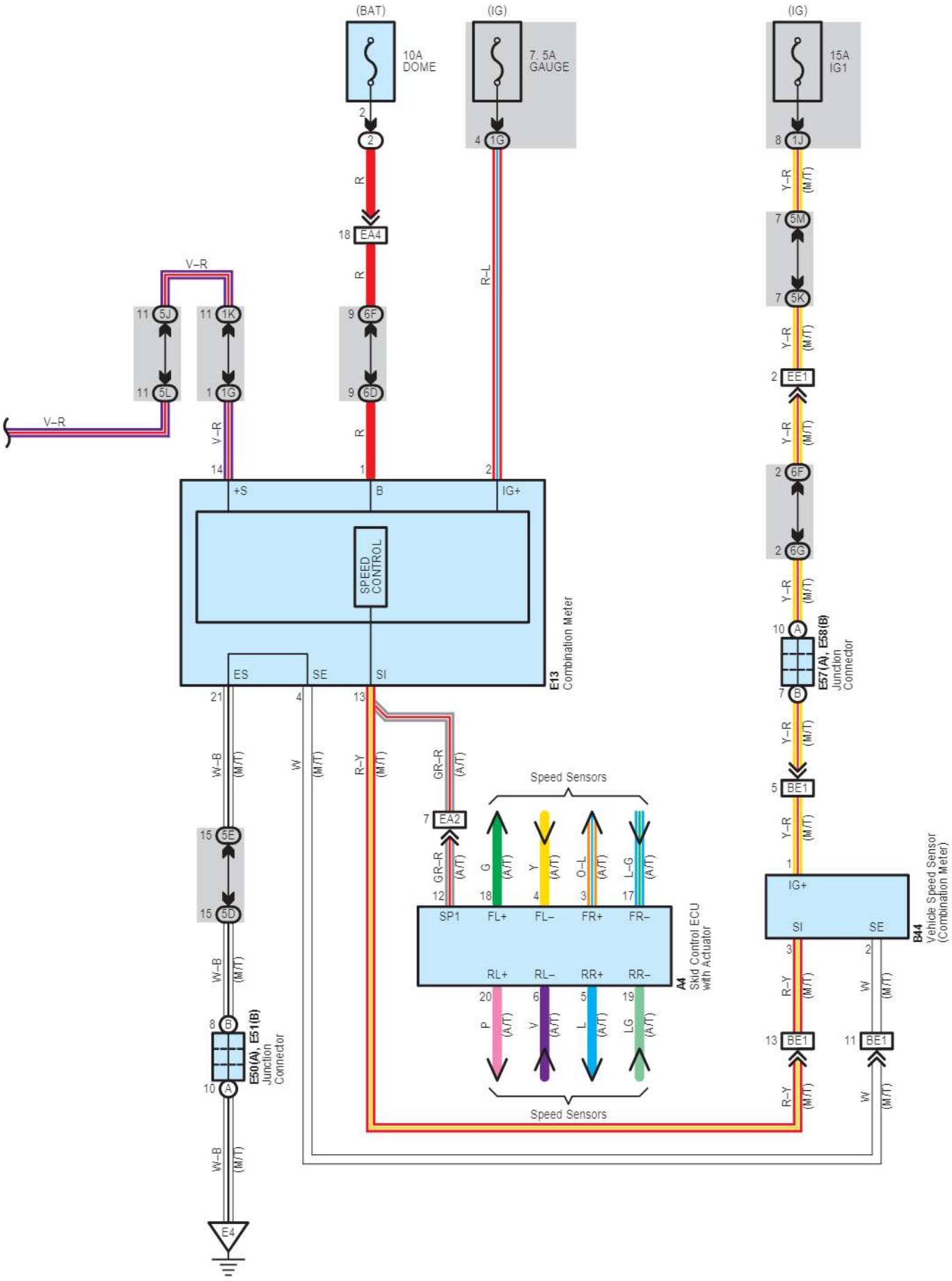
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: Parts Location

Code	See Page	Code	See Page	Code	See Page
A4	38	E13	42	E59 A	44
A25	45	E24	42	E60 B	44
A28	38	E46 D	43	K6 A	46
B2 B	45	E50 A	44	K7 B	46
B35	40	E51 B	44	K8	46
B44	40	E57 A	44		
B46	45	E58 B	44		

: Relay Blocks

Code	See Page	Relay Blocks (Relay Block Location)
2	22	Engine Room R/B No.2 (Engine Compartment Left)
3	23	Engine Room R/B No.3 (Engine Compartment Left)

: Junction Block and Wire Harness Connector

Code	See Page	Junction Block and Wire Harness (Connector Location)
1E	24	Engine Room Main Wire and Driver Side J/B (Lower Finish Panel)
1G	25	Instrument Panel Wire and Driver Side J/B (Lower Finish Panel)
1J		
1K		
5D	28	Instrument Panel Wire and Center J/B LH (Instrument Panel LH)
5E		
5J		
5K		
5L		
5M		
6D	32	Instrument Panel Wire and Center J/B RH (Instrument Panel RH)
6F		
6G		
6J		

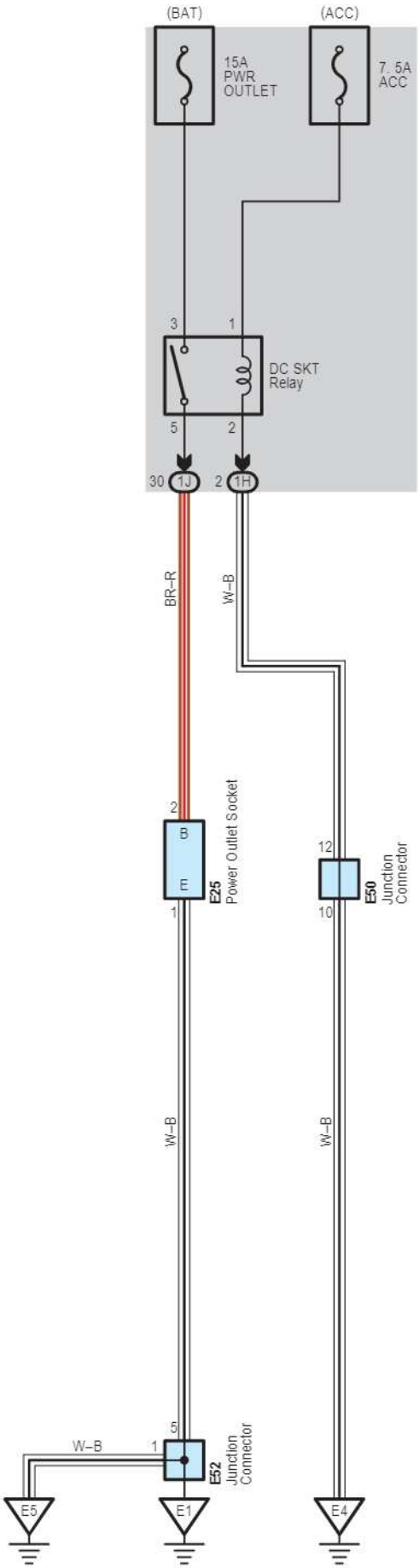
: Connector Joining Wire Harness and Wire Harness

Code	See Page	Joining Wire Harness and Wire Harness (Connector Location)
BE1	51	Engine Wire and Instrument Panel Wire (Upper the Glove Box)
BE2		
EA1	51	Instrument Panel Wire and Engine Room Main Wire (Left Kick Panel)
EA2		
EA4		
EE1	51	Instrument Panel Wire and Instrument Panel Wire (Instrument Panel RH)
EK2	51	Instrument Panel Wire and Floor Wire (Right Kick Panel)
KP1	52	Floor Wire and Frame No.2 Wire (Rear Side of Side Frame RH)
PA1	50	Frame No.2 Wire and Engine Room Main Wire (Right Dash Panel)

: Ground Points

Code	See Page	Ground Points Location
E4	51	Left Kick Panel
K2	52	Rear Wheel House RH
K3		

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○ : Parts Location

Code	See Page	Code	See Page	Code	See Page
E25	42	E50	44	E52	44

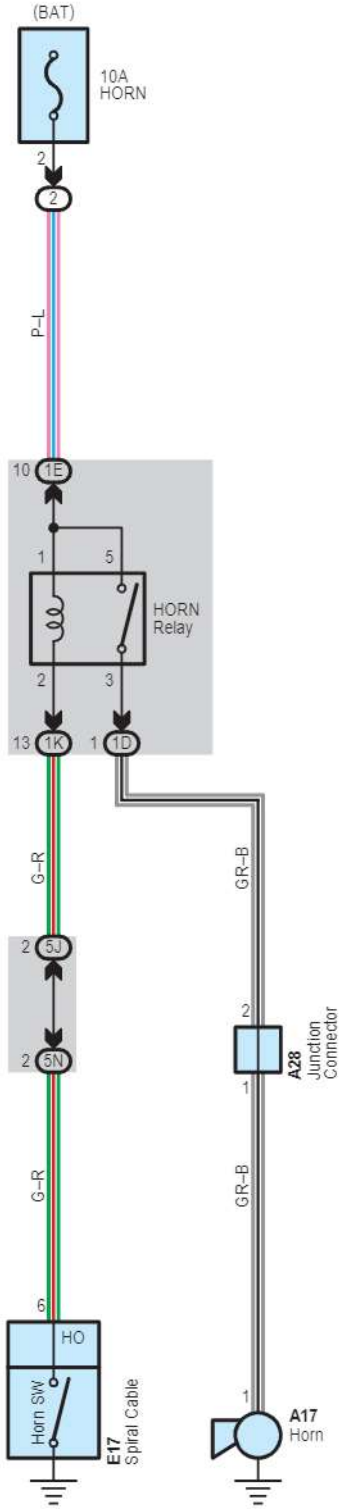
: Junction Block and Wire Harness Connector

Code	See Page	Junction Block and Wire Harness (Connector Location)
1H	25	Instrument Panel Wire and Driver Side J/B (Lower Finish Panel)
1J		

▽ : Ground Points

Code	See Page	Ground Points Location
E1	51	Instrument Panel Brace RH
E4	51	Left Kick Panel
E5	51	Right Kick Panel

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: Parts Location

Code	See Page	Code	See Page	Code	See Page
A17	38	A28	38	E17	42

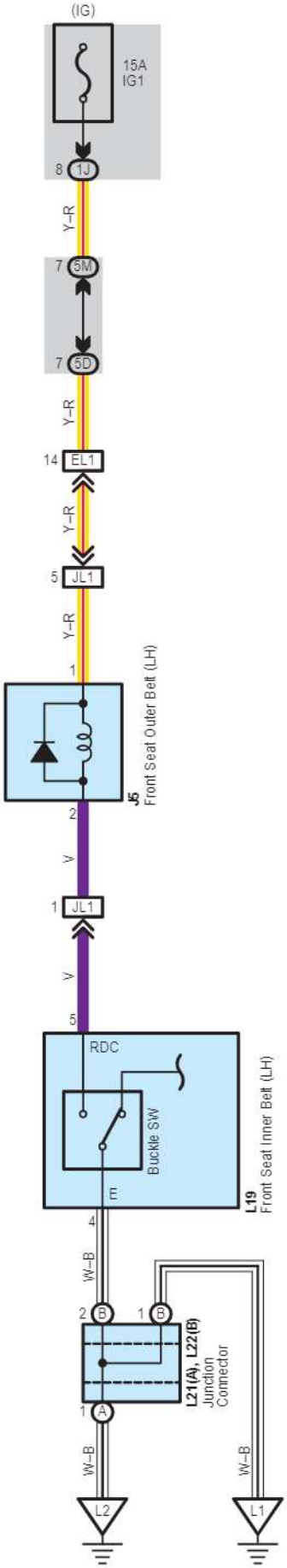
: Relay Blocks

Code	See Page	Relay Blocks (Relay Block Location)
2	22	Engine Room R/B No.2 (Engine Compartment Left)

: Junction Block and Wire Harness Connector

Code	See Page	Junction Block and Wire Harness (Connector Location)
1D	24	Engine Room Main Wire and Driver Side J/B (Lower Finish Panel)
1E		
1K	25	Instrument Panel Wire and Driver Side J/B (Lower Finish Panel)
5J	28	Instrument Panel Wire and Center J/B LH (Instrument Panel LH)
5N		

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: Parts Location

Code	See Page	Code		See Page	Code	See Page
J5	47	L21	A	46		
L19	48	L22	B	46		

: Junction Block and Wire Harness Connector

Code	See Page	Junction Block and Wire Harness (Connector Location)
1J	25	Instrument Panel Wire and Driver Side J/B (Lower Finish Panel)
5D	28	Instrument Panel Wire and Center J/B LH (Instrument Panel LH)
5M		

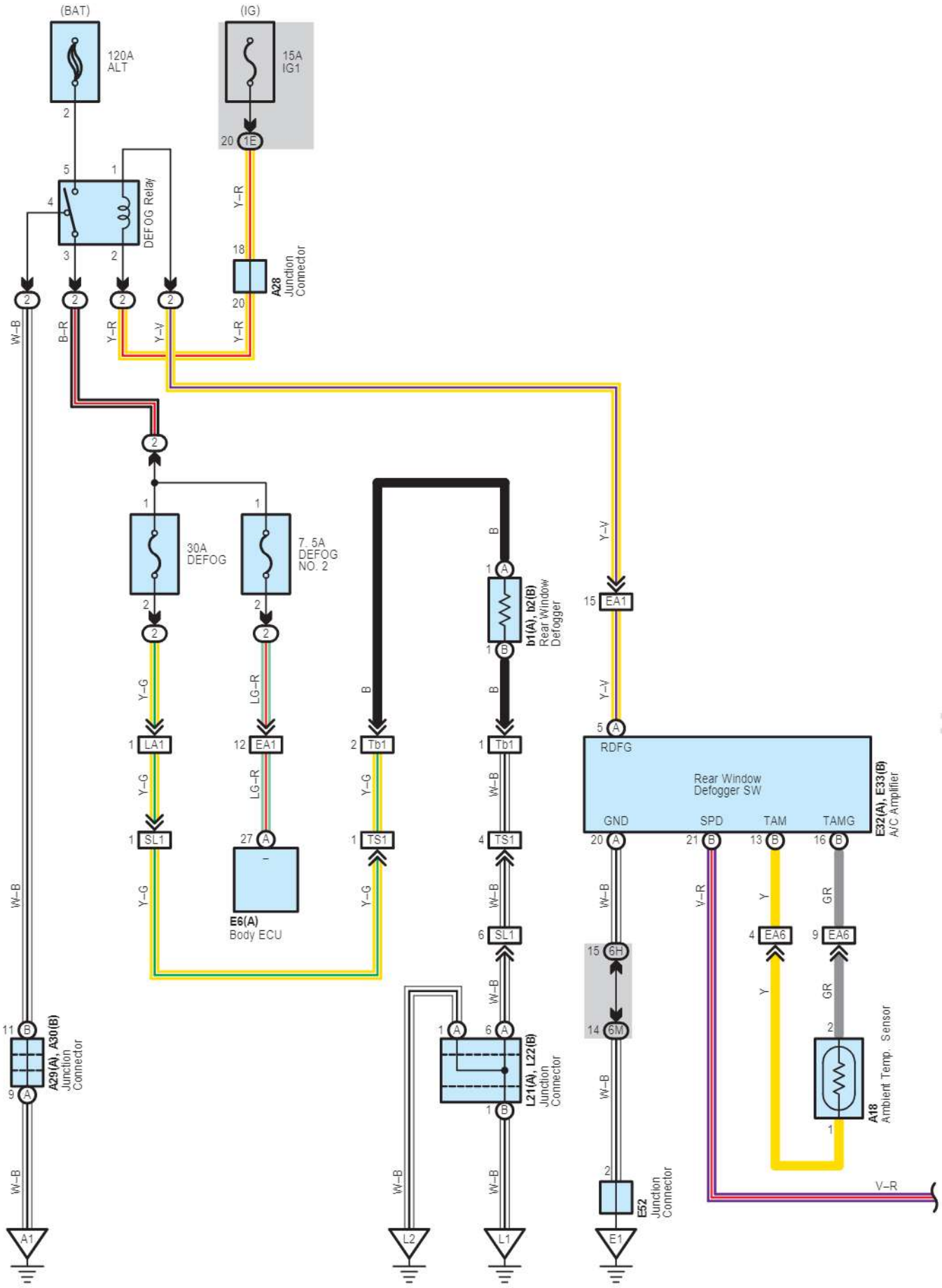
: Connector Joining Wire Harness and Wire Harness

Code	See Page	Joining Wire Harness and Wire Harness (Connector Location)
EL1	51	Instrument Panel Wire and Floor No.2 Wire (Left Kick Panel)
JL1	52	Rear Door No.2 Wire and Floor No.2 Wire (Left Quarter Panel)

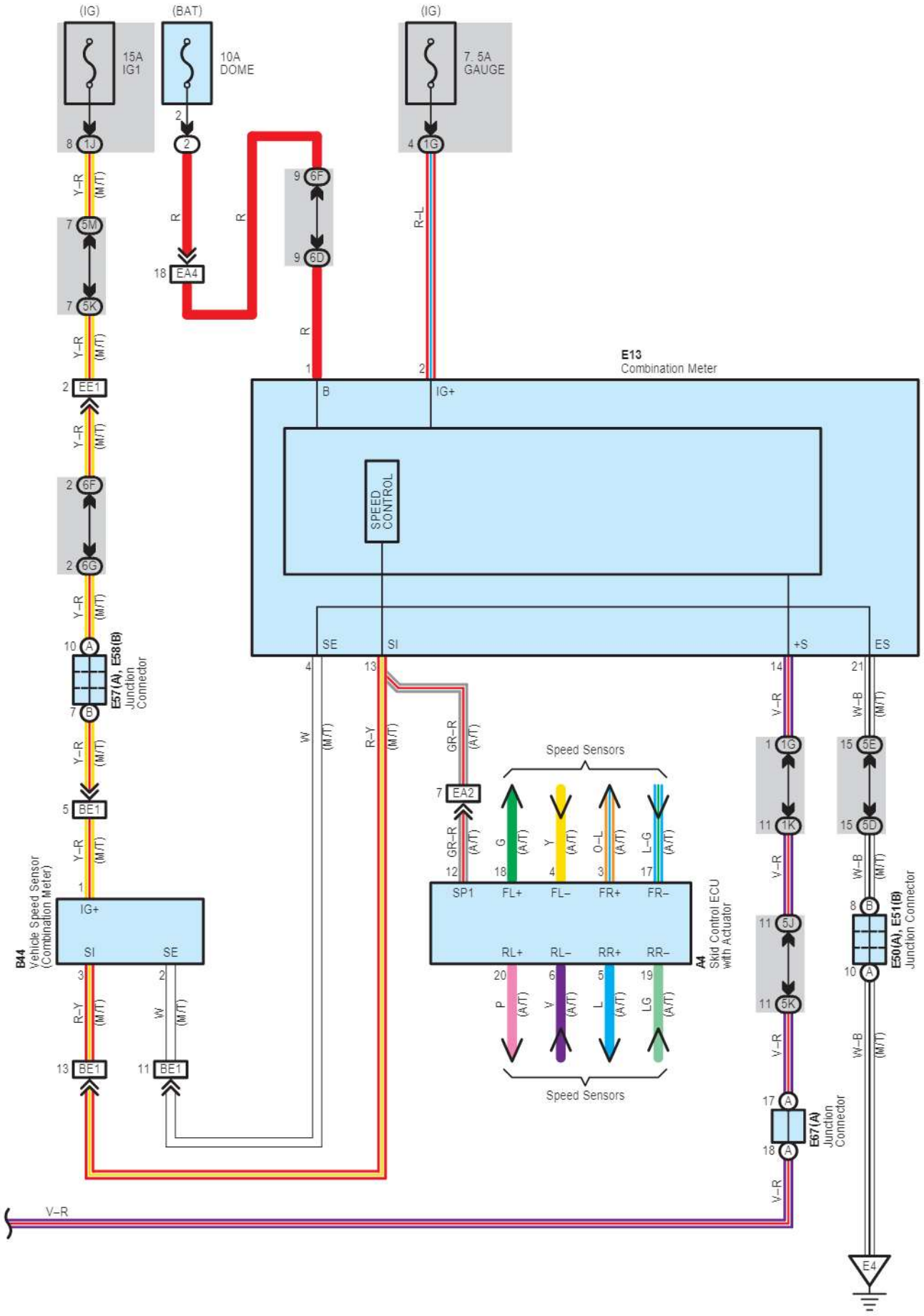
: Ground Points

Code	See Page	Ground Points Location
L1	52	Floor Seat Crossmember LH
L2	52	Left Quarter Panel

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Rear Window Defogger

○ : Parts Location

Code	See Page	Code	See Page	Code	See Page
A4	38	E13	42	E58 B	44
A18	38	E32 A	43	E67 A	44
A28	38	E33 B	43	L21 A	46
A29 A	38	E50 A	44	L22 B	46
A30 B	38	E51 B	44	b1 A	47
B44	40	E52	44	b2 B	47
E6 A	42	E57 A	44		

⬭ : Relay Blocks

Code	See Page	Relay Blocks (Relay Block Location)
2	22	Engine Room R/B No.2 (Engine Compartment Left)

⬭ : Junction Block and Wire Harness Connector

Code	See Page	Junction Block and Wire Harness (Connector Location)
1E	24	Engine Room Main Wire and Driver Side J/B (Lower Finish Panel)
1G	25	Instrument Panel Wire and Driver Side J/B (Lower Finish Panel)
1J		
1K		
5D	28	Instrument Panel Wire and Center J/B LH (Instrument Panel LH)
5E		
5J		
5K		
5M		
6D	32	Instrument Panel Wire and Center J/B RH (Instrument Panel RH)
6F		
6G		
6H		
6M		

▭ : Connector Joining Wire Harness and Wire Harness

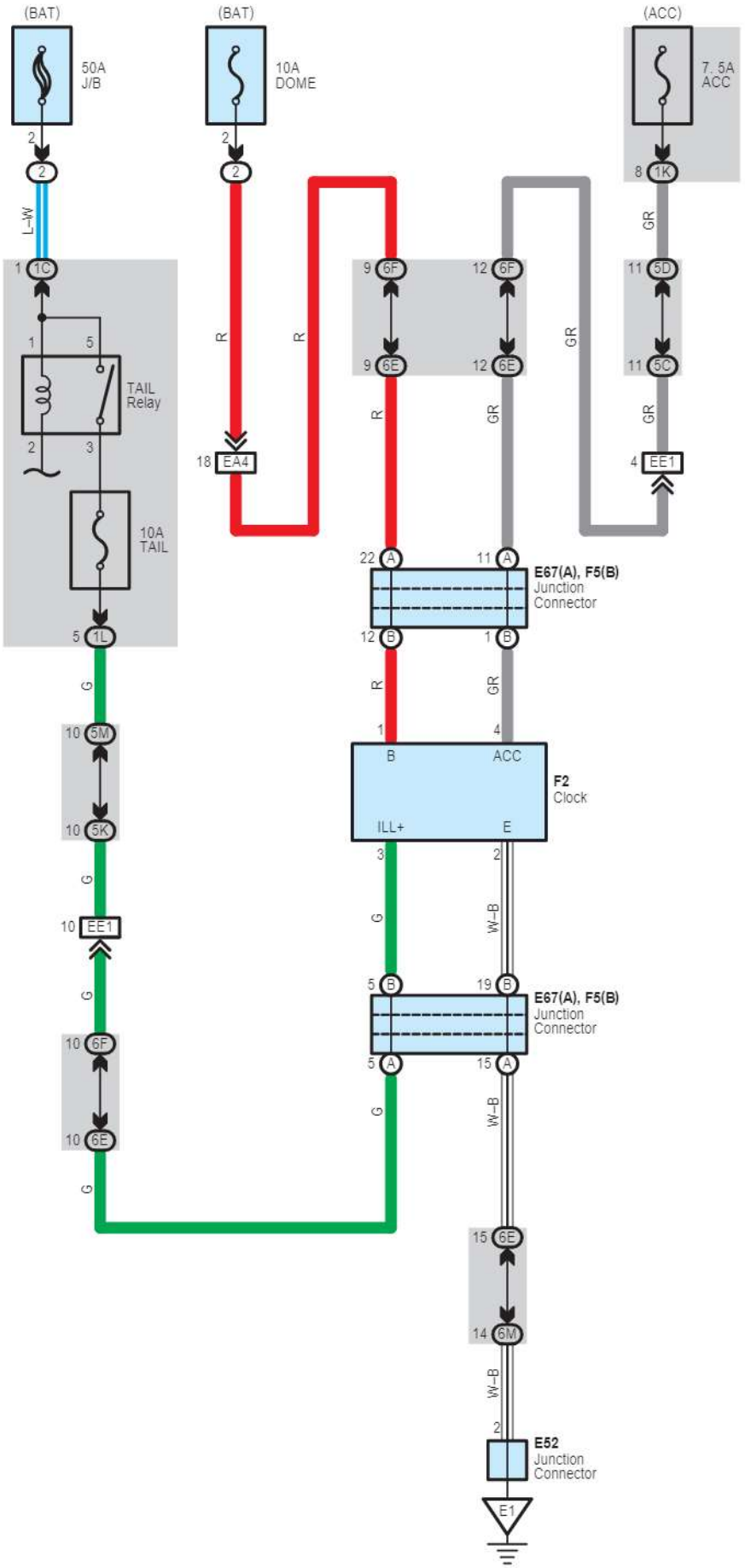
Code	See Page	Joining Wire Harness and Wire Harness (Connector Location)
BE1	51	Engine Wire and Instrument Panel Wire (Upper the Glove Box)
EA1	51	Instrument Panel Wire and Engine Room Main Wire (Left Kick Panel)
EA2		
EA4		
EA6	51	Instrument Panel Wire and Engine Room Main Wire (Right Kick Panel)
EE1	51	Instrument Panel Wire and Instrument Panel Wire (Instrument Panel RH)
LA1	51	Floor No.2 Wire and Engine Room Main Wire (Left Kick Panel)
SL1	52	Back Door No.1 Wire and Floor No.2 Wire (Left Quarter Panel)
TS1	52	Back Door No.2 Wire and Back Door No.1 Wire (Left Side of Back Door)
Tb1	52	Back Door No.2 Wire and Rear Window No.1 Wire (Upper Side of Back Door)

▽ : Ground Points

Code	See Page	Ground Points Location
A1	50	Left Fender Apron
E1	51	Instrument Panel Brace RH
E4	51	Left Kick Panel
L1	52	Floor Seat Crossmember LH
L2	52	Left Quarter Panel

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: Parts Location

Code	See Page	Code	See Page	Code	See Page
E52	44	F2	45		
E67 A	44	F5 B	45		

: Relay Blocks

Code	See Page	Relay Blocks (Relay Block Location)
2	22	Engine Room R/B No.2 (Engine Compartment Left)

: Junction Block and Wire Harness Connector

Code	See Page	Junction Block and Wire Harness (Connector Location)
1C	24	Engine Room Main Wire and Driver Side J/B (Lower Finish Panel)
1K	25	Instrument Panel Wire and Driver Side J/B (Lower Finish Panel)
1L		
5C	28	Instrument Panel Wire and Center J/B LH (Instrument Panel LH)
5D		
5K		
5M		
6E	32	Instrument Panel Wire and Center J/B RH (Instrument Panel RH)
6F		
6M		

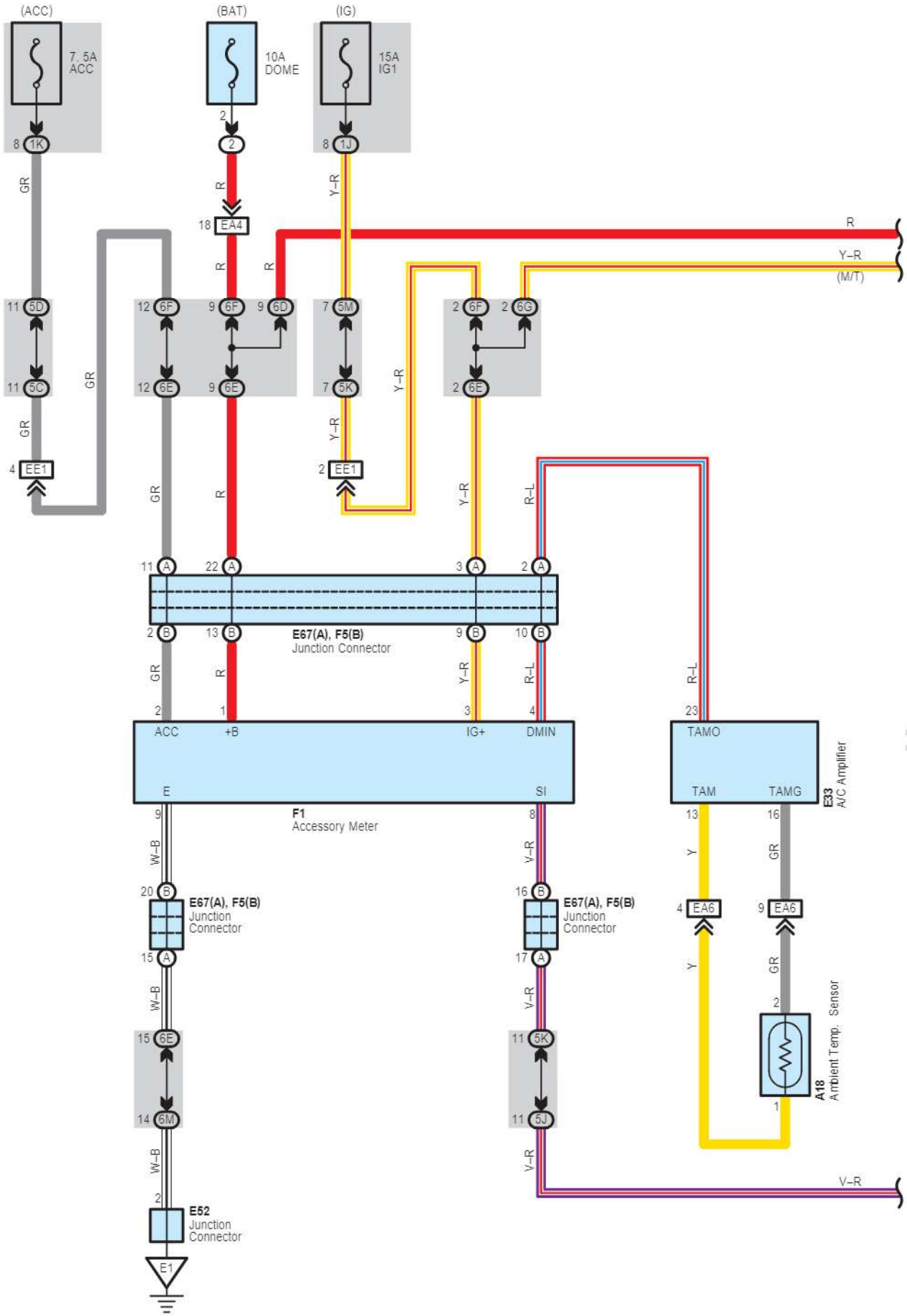
: Connector Joining Wire Harness and Wire Harness

Code	See Page	Joining Wire Harness and Wire Harness (Connector Location)
EA4	51	Instrument Panel Wire and Engine Room Main Wire (Left Kick Panel)
EE1	51	Instrument Panel Wire and Instrument Panel Wire (Instrument Panel RH)

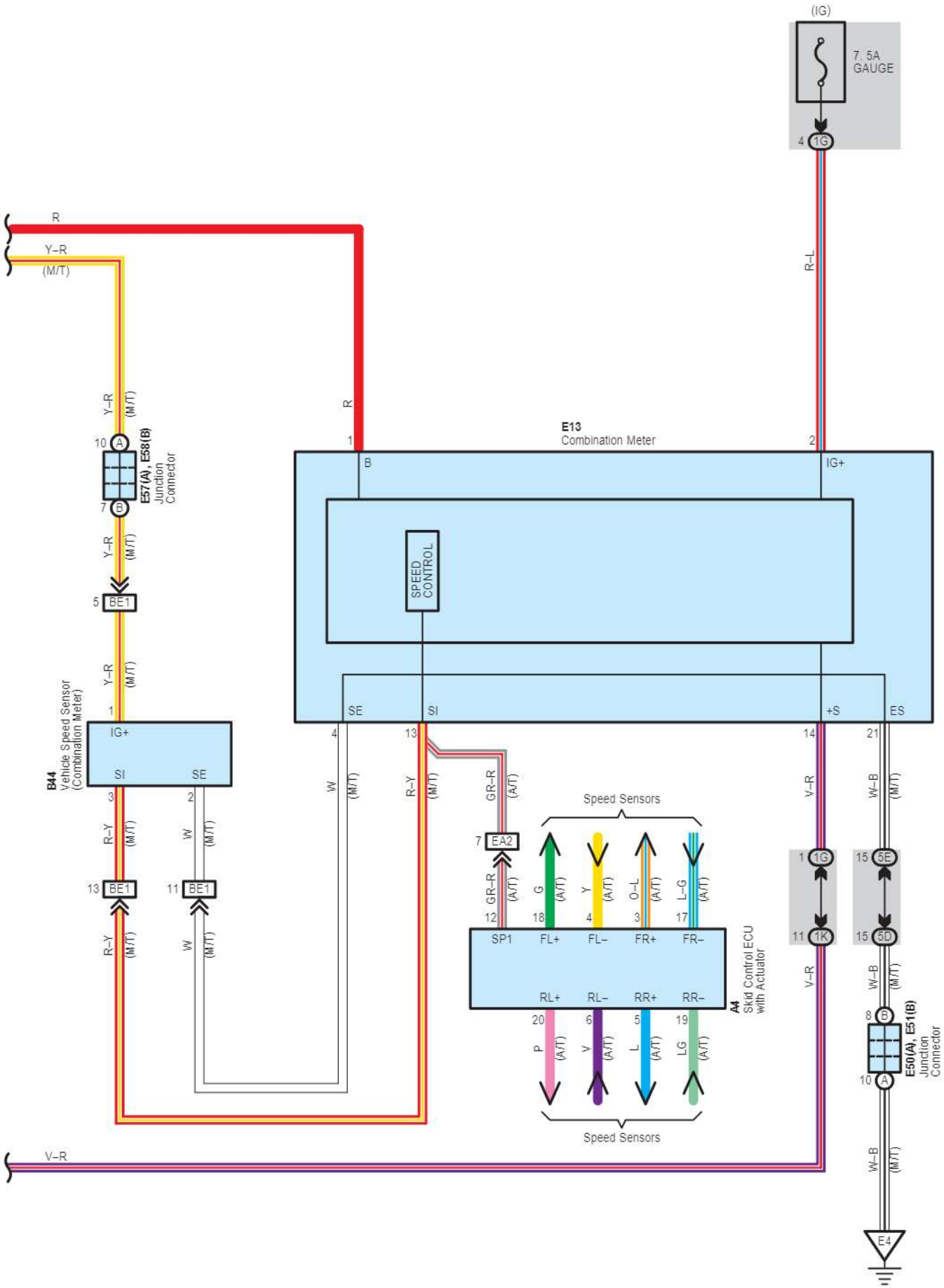
: Ground Points

Code	See Page	Ground Points Location
E1	51	Instrument Panel Brace RH

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Accessory Meter

: Parts Location

Code	See Page	Code	See Page	Code	See Page
A4	38	E50 A	44	E67 A	44
A18	38	E51 B	44	F1	45
B44	40	E52	44	F5 B	45
E13	42	E57 A	44		
E33	43	E58 B	44		

: Relay Blocks

Code	See Page	Relay Blocks (Relay Block Location)
2	22	Engine Room R/B No.2 (Engine Compartment Left)

: Junction Block and Wire Harness Connector

Code	See Page	Junction Block and Wire Harness (Connector Location)
1G	25	Instrument Panel Wire and Driver Side J/B (Lower Finish Panel)
1J		
1K		
5C	28	Instrument Panel Wire and Center J/B LH (Instrument Panel LH)
5D		
5E		
5J		
5K		
5M		
6D	32	Instrument Panel Wire and Center J/B RH (Instrument Panel RH)
6E		
6F		
6G		
6M		

: Connector Joining Wire Harness and Wire Harness

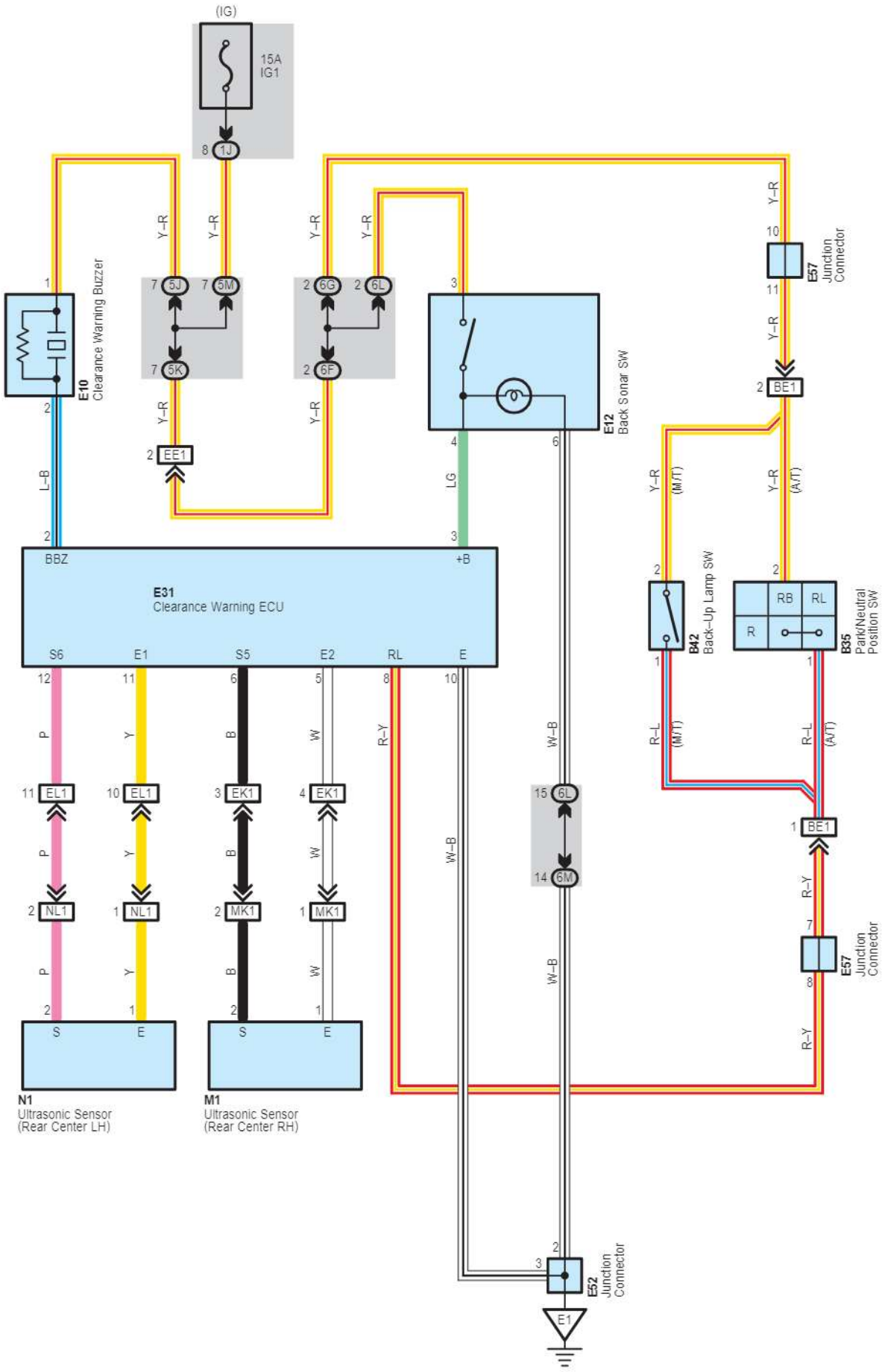
Code	See Page	Joining Wire Harness and Wire Harness (Connector Location)
BE1	51	Engine Wire and Instrument Panel Wire (Upper the Glove Box)
EA2	51	Instrument Panel Wire and Engine Room Main Wire (Left Kick Panel)
EA4		
EA6	51	Instrument Panel Wire and Engine Room Main Wire (Right Kick Panel)
EE1	51	Instrument Panel Wire and Instrument Panel Wire (Instrument Panel RH)

: Ground Points

Code	See Page	Ground Points Location
E1	51	Instrument Panel Brace RH
E4	51	Left Kick Panel

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System Outline

The back sonar is a system which detects objects behind the vehicle by using ultra sonic sensor and informs the driver the distance between the sensor and objects with buzzer.

: Parts Location

Code	See Page	Code	See Page	Code	See Page
B35	40	E12	42	E57	44
B42	40	E31	43	M1	47
E10	42	E52	44	N1	47

: Junction Block and Wire Harness Connector

Code	See Page	Junction Block and Wire Harness (Connector Location)
1J	25	Instrument Panel Wire and Driver Side J/B (Lower Finish Panel)
5J	28	Instrument Panel Wire and Center J/B LH (Instrument Panel LH)
5K		
5M		
6F	32	Instrument Panel Wire and Center J/B RH (Instrument Panel RH)
6G		
6L		
6M		

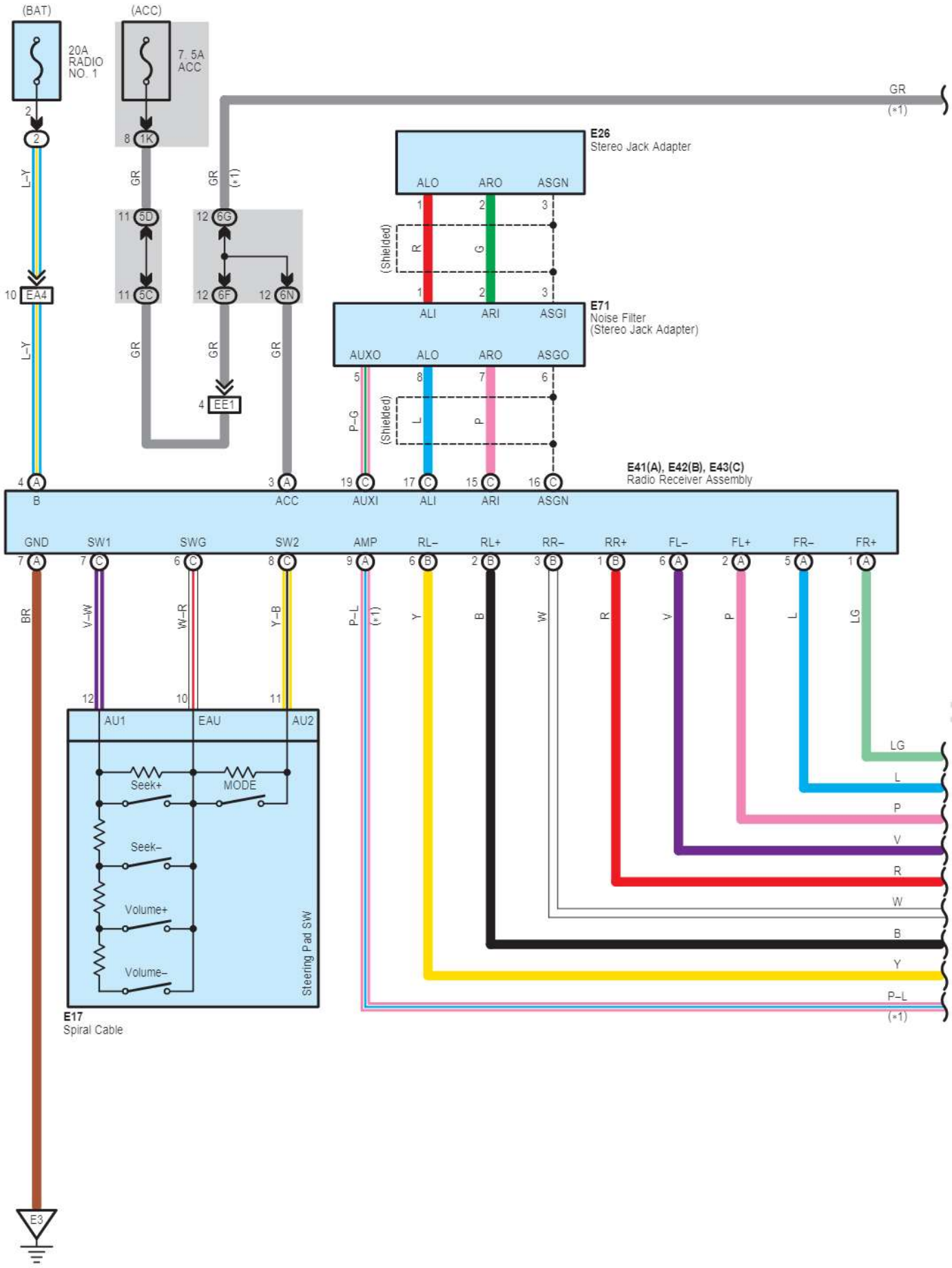
: Connector Joining Wire Harness and Wire Harness

Code	See Page	Joining Wire Harness and Wire Harness (Connector Location)
BE1	51	Engine Wire and Instrument Panel Wire (Upper the Glove Box)
EE1	51	Instrument Panel Wire and Instrument Panel Wire (Instrument Panel RH)
EK1	51	Instrument Panel Wire and Floor Wire (Right Kick Panel)
EL1	51	Instrument Panel Wire and Floor No.2 Wire (Left Kick Panel)
MK1	52	Floor No.3 RH Wire and Floor Wire (Rear Side of Side Frame RH)
NL1	52	Floor No.3 LH Wire and Floor No.2 Wire (Rear Side of Side Frame LH)

: Ground Points

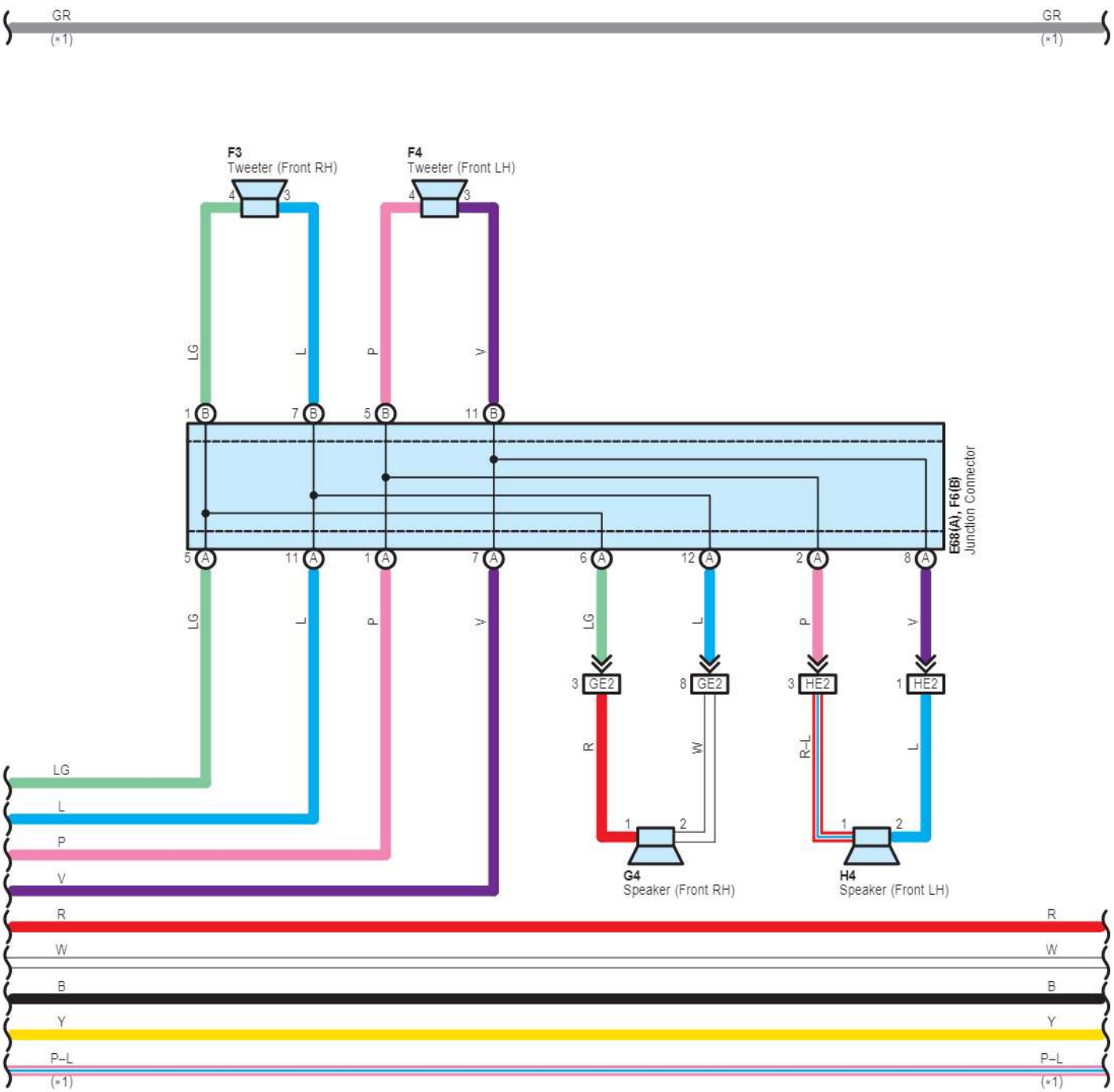
Code	See Page	Ground Points Location
E1	51	Instrument Panel Brace RH

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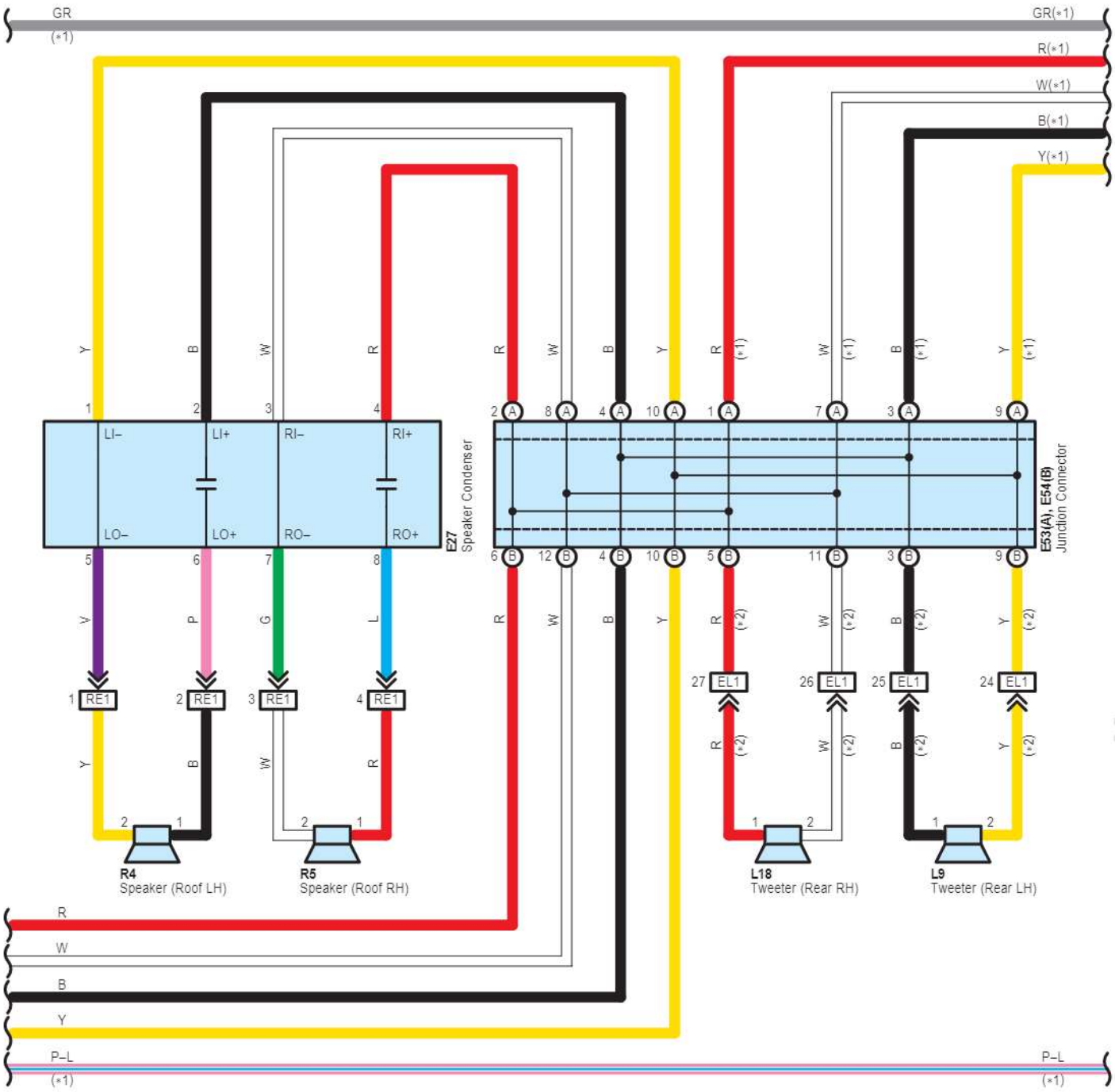


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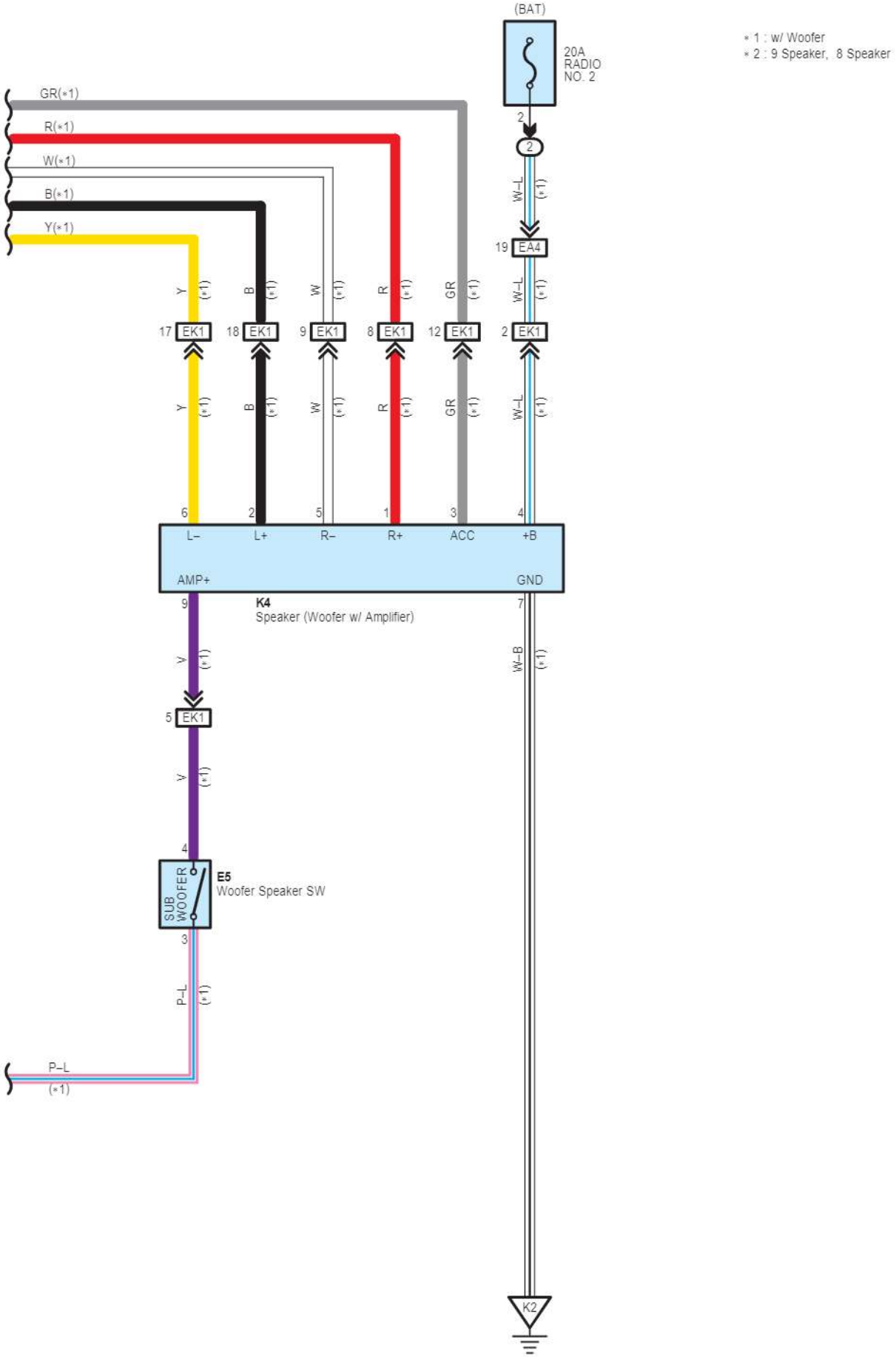
∗ 1 : w/ Woofer



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: Parts Location

Code	See Page	Code	See Page	Code	See Page
E5	42	E53 A	44	G4	47
E17	42	E54 B	44	H4	47
E26	43	E68 A	44	K4	46
E27	43	E71	44	L9	46
E41 A	43	F3	45	L18	46
E42 B	43	F4	45	R4	47
E43 C	43	F6 B	45	R5	47

: Relay Blocks

Code	See Page	Relay Blocks (Relay Block Location)
2	22	Engine Room R/B No.2 (Engine Compartment Left)

: Junction Block and Wire Harness Connector

Code	See Page	Junction Block and Wire Harness (Connector Location)
1K	25	Instrument Panel Wire and Driver Side J/B (Lower Finish Panel)
5C	28	Instrument Panel Wire and Center J/B LH (Instrument Panel LH)
5D		
6F	32	Instrument Panel Wire and Center J/B RH (Instrument Panel RH)
6G		
6N		

: Connector Joining Wire Harness and Wire Harness

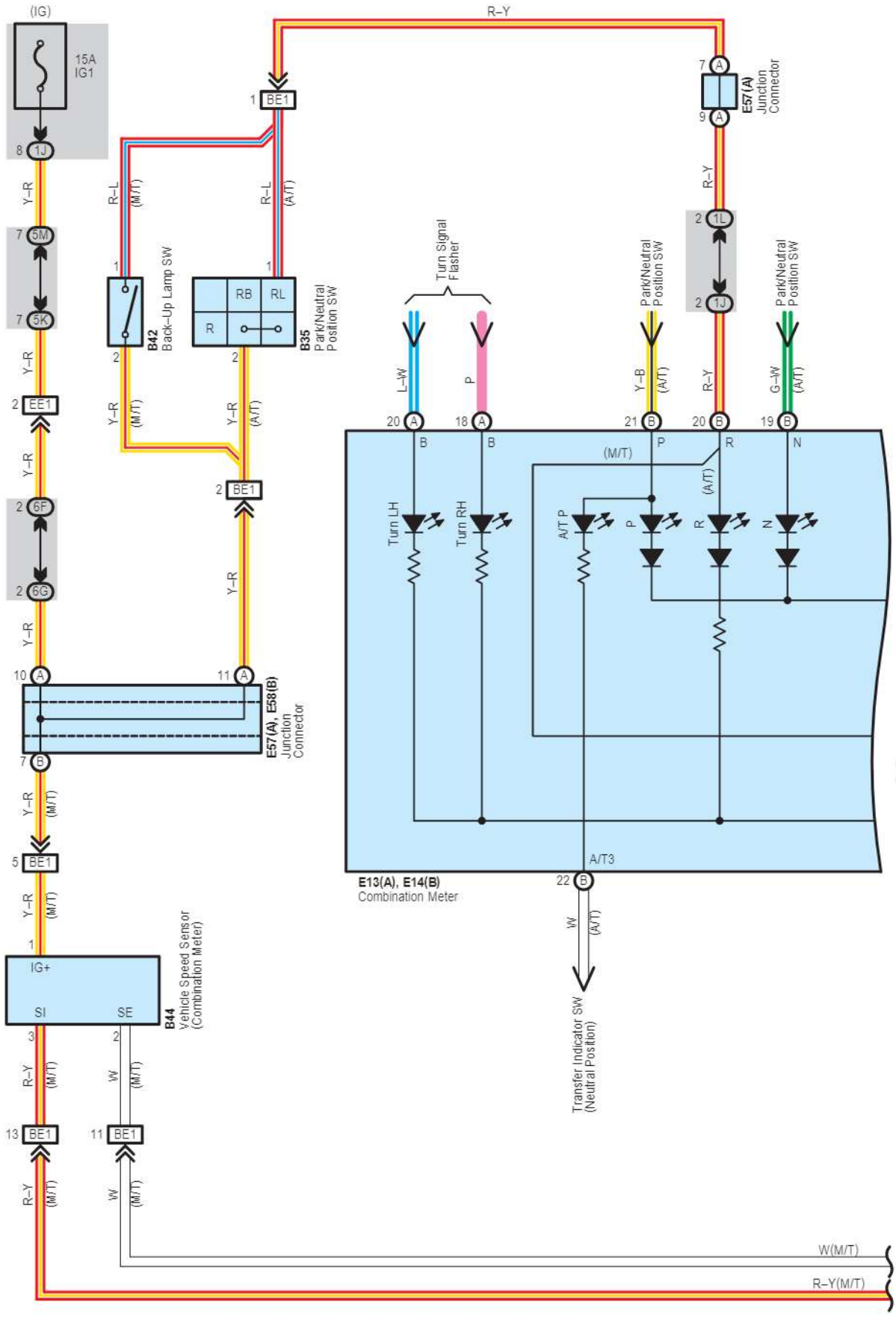
Code	See Page	Joining Wire Harness and Wire Harness (Connector Location)
EA4	51	Instrument Panel Wire and Engine Room Main Wire (Left Kick Panel)
EE1	51	Instrument Panel Wire and Instrument Panel Wire (Instrument Panel RH)
EK1	51	Instrument Panel Wire and Floor Wire (Right Kick Panel)
EL1	51	Instrument Panel Wire and Floor No.2 Wire (Left Kick Panel)
GE2	51	Front Door RH Wire and Instrument Panel Wire (Right Kick Panel)
HE2	51	Front Door LH Wire and Instrument Panel Wire (Left Kick Panel)
RE1	51	Roof Wire and Instrument Panel Wire (Left Kick Panel)

: Ground Points

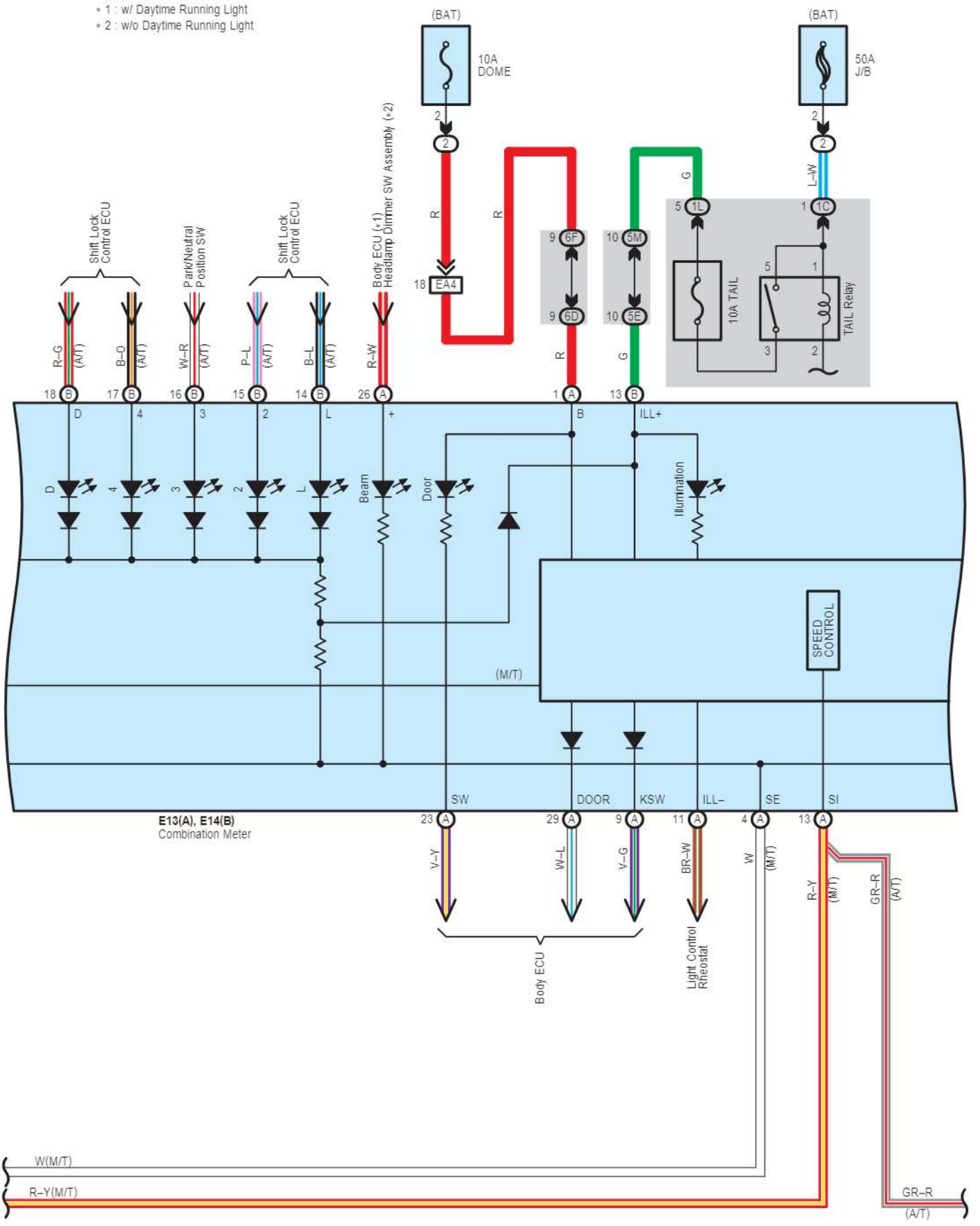
Code	See Page	Ground Points Location
E3	51	Instrument Panel Brace RH
K2	52	Rear Wheel House RH

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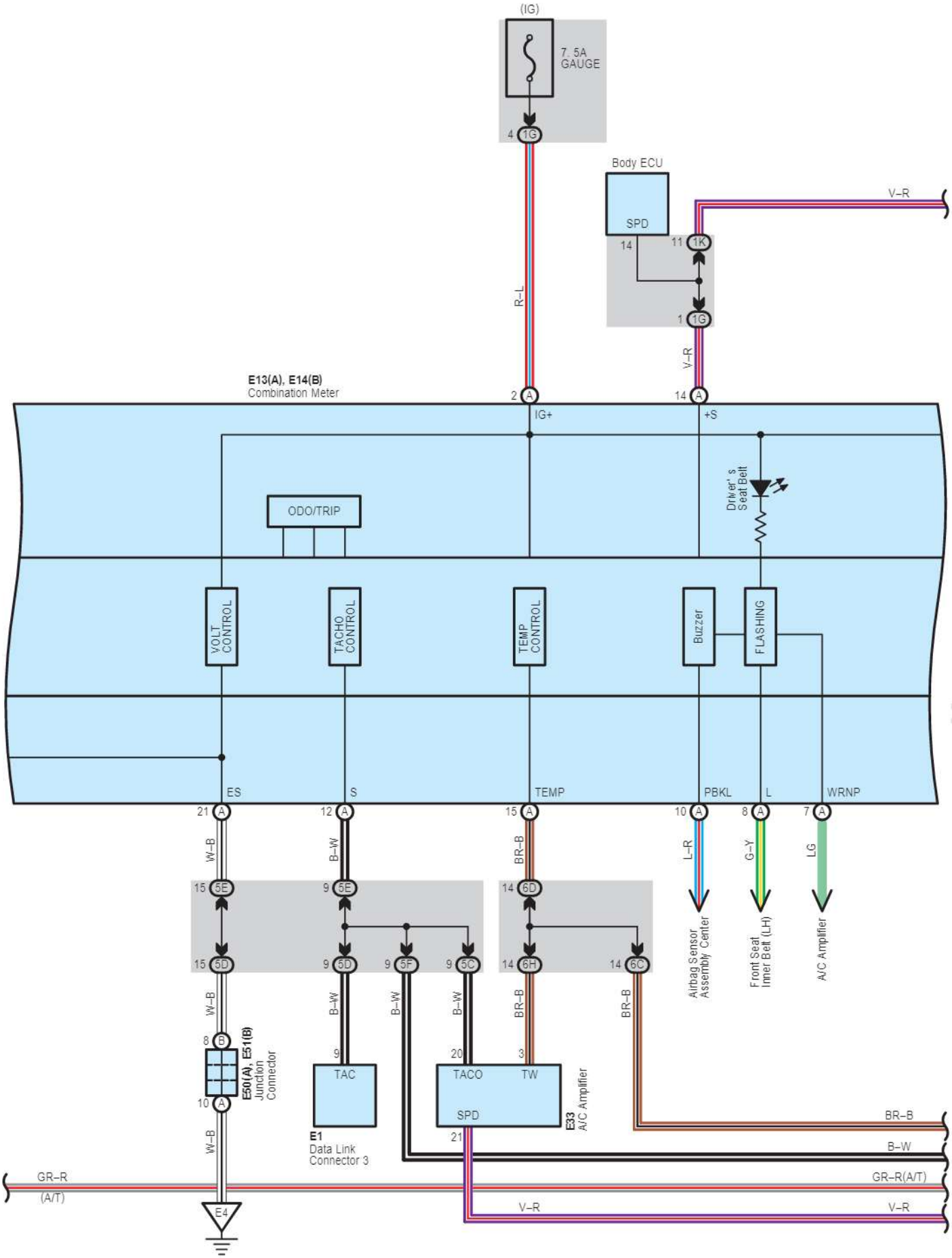
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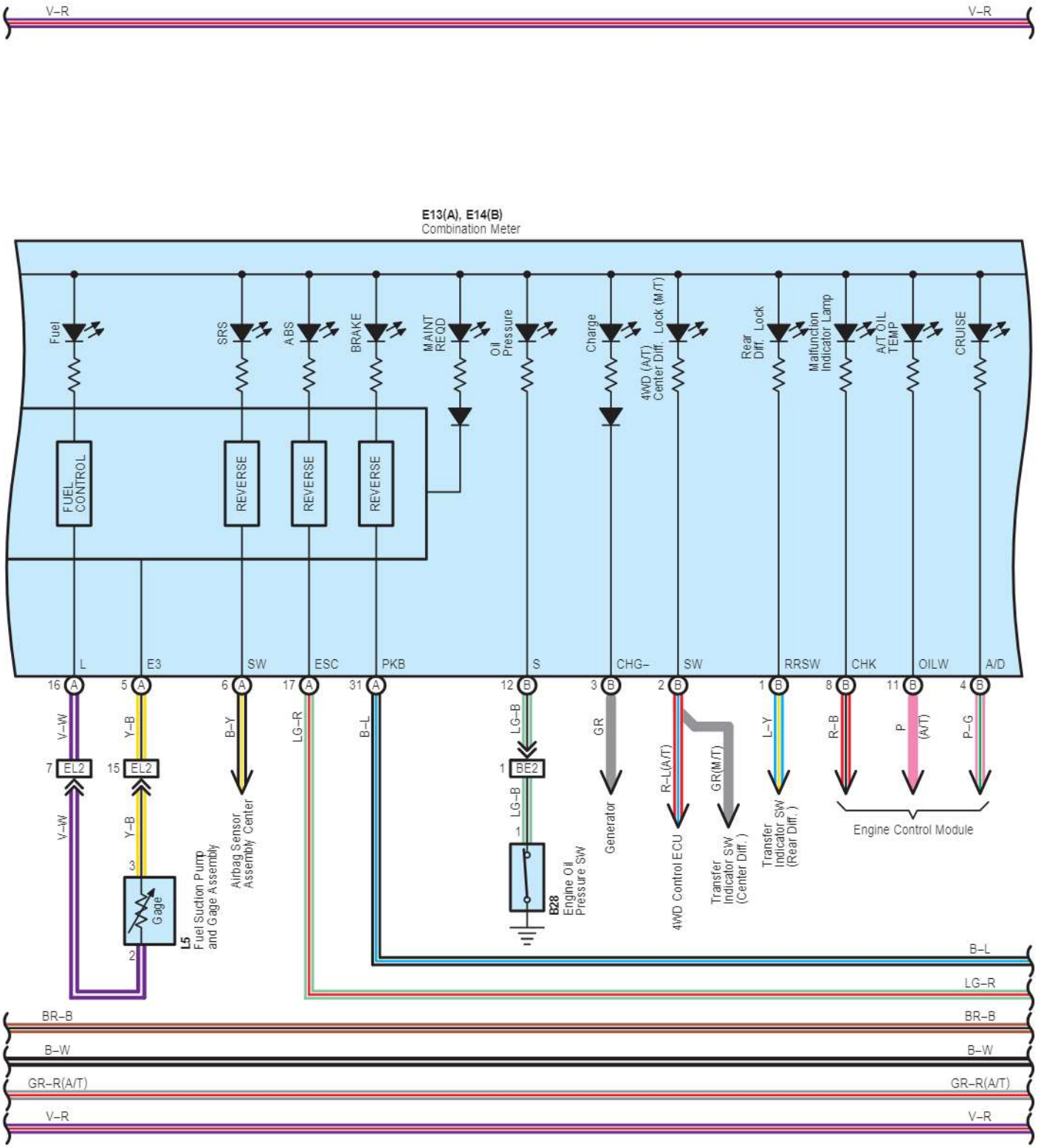
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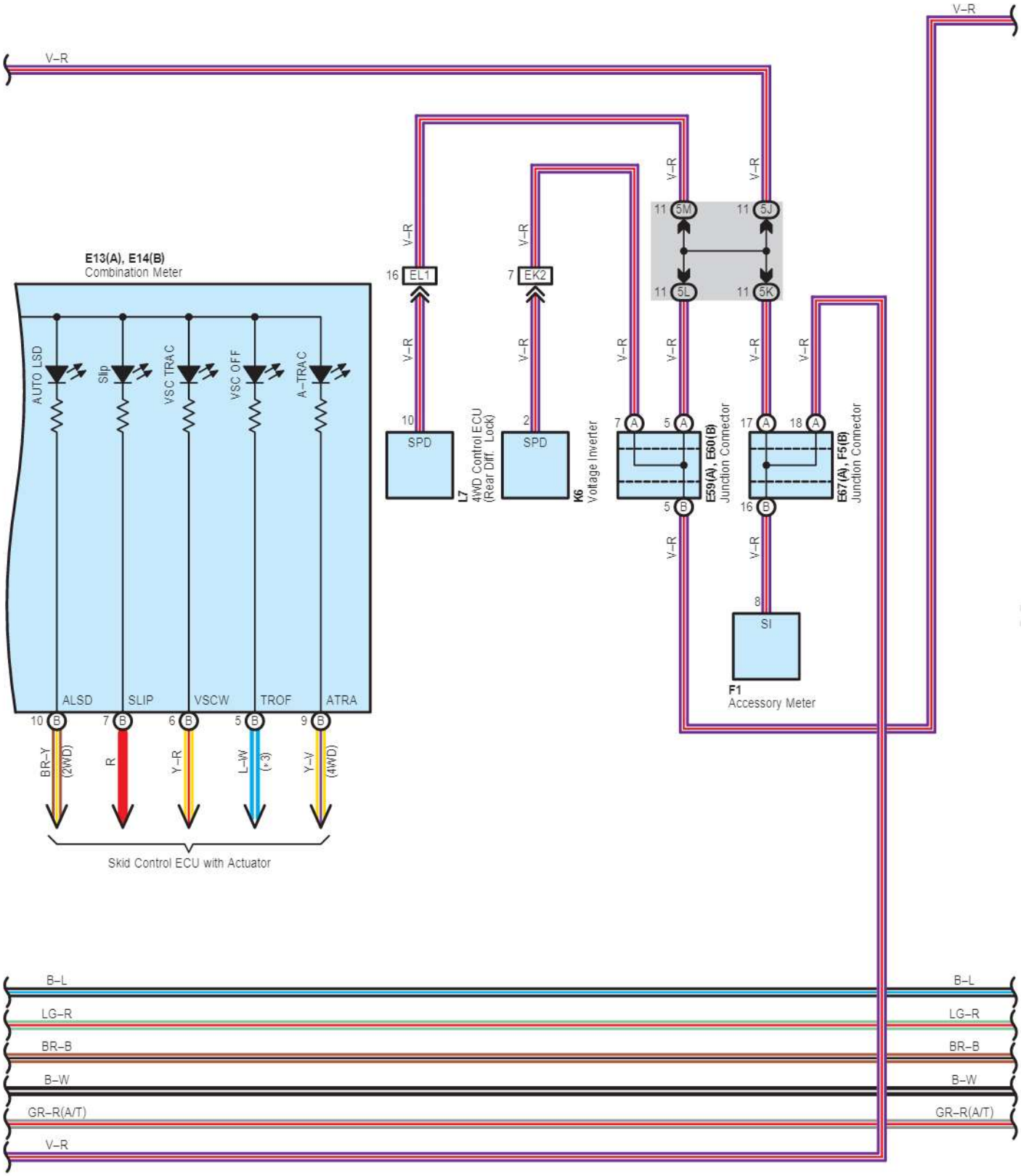
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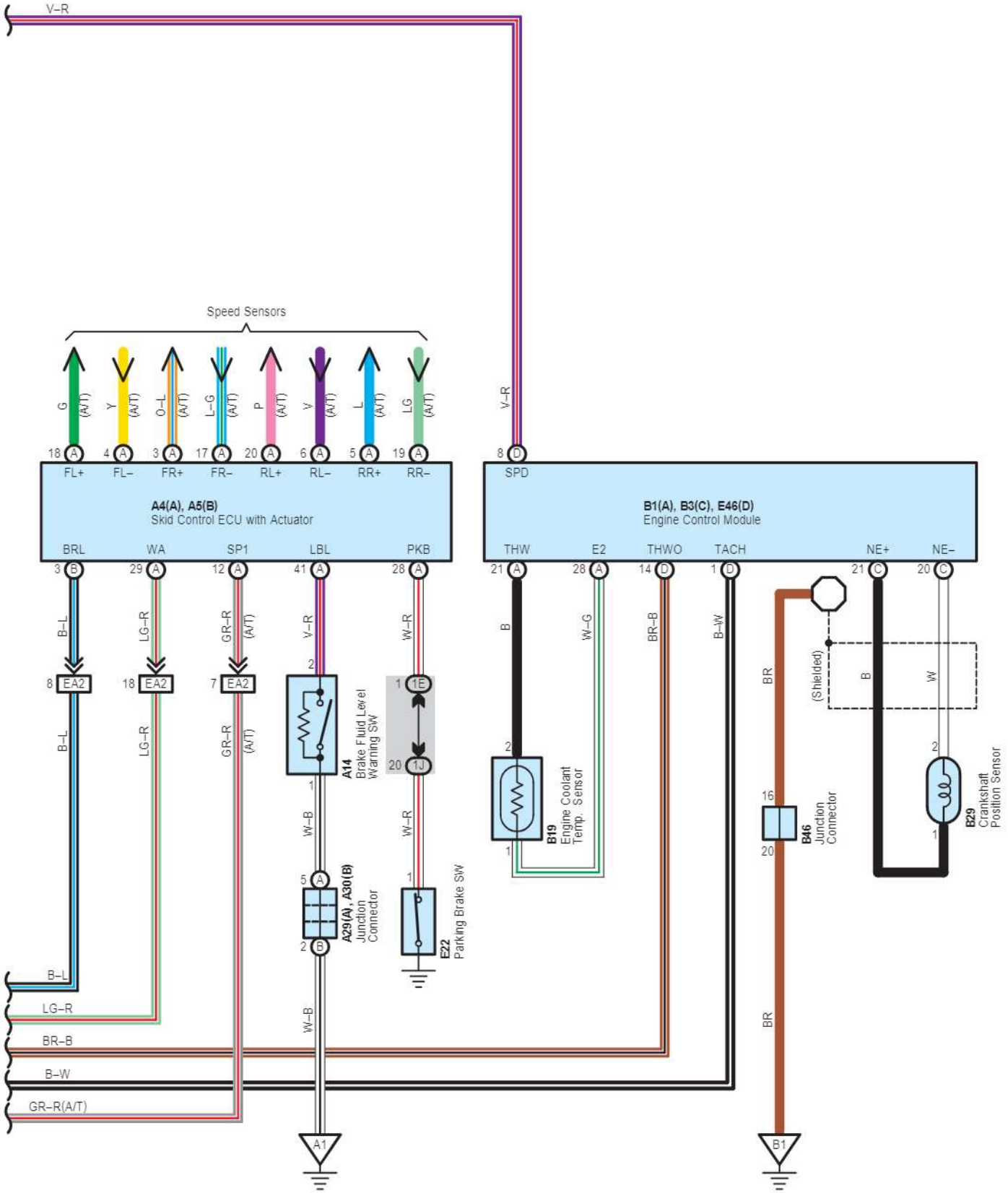


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* 3 : 4WD, 2WD w/ Rear Diff. Lock



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Combination Meter

: Parts Location

Code		See Page	Code		See Page	Code		See Page
A4	A	38	B42		40	E57	A	44
A5	B	38	B44		40	E58	B	44
A14		38	B46		45	E59	A	44
A29	A	38	E1		42	E60	B	44
A30	B	38	E13	A	42	E67	A	44
B1	A	45	E14	B	42	F1		45
B3	C	45	E22		42	F5	B	45
B19		39	E33		43	K6		46
B28		40	E46	D	43	L5		46
B29		40	E50	A	44	L7		45
B35		40	E51	B	44			

: Relay Blocks

Code	See Page	Relay Blocks (Relay Block Location)
2	22	Engine Room R/B No.2 (Engine Compartment Left)

: Junction Block and Wire Harness Connector

Code	See Page	Junction Block and Wire Harness (Connector Location)
1C	24	Engine Room Main Wire and Driver Side J/B (Lower Finish Panel)
1E		
1G	25	Instrument Panel Wire and Driver Side J/B (Lower Finish Panel)
1J		
1K		
1L		
5C	28	Instrument Panel Wire and Center J/B LH (Instrument Panel LH)
5D		
5E		
5F		
5J		
5K		
5L		
5M		
6C	32	Instrument Panel Wire and Center J/B RH (Instrument Panel RH)
6D		
6F		
6G		
6H		

: Connector Joining Wire Harness and Wire Harness

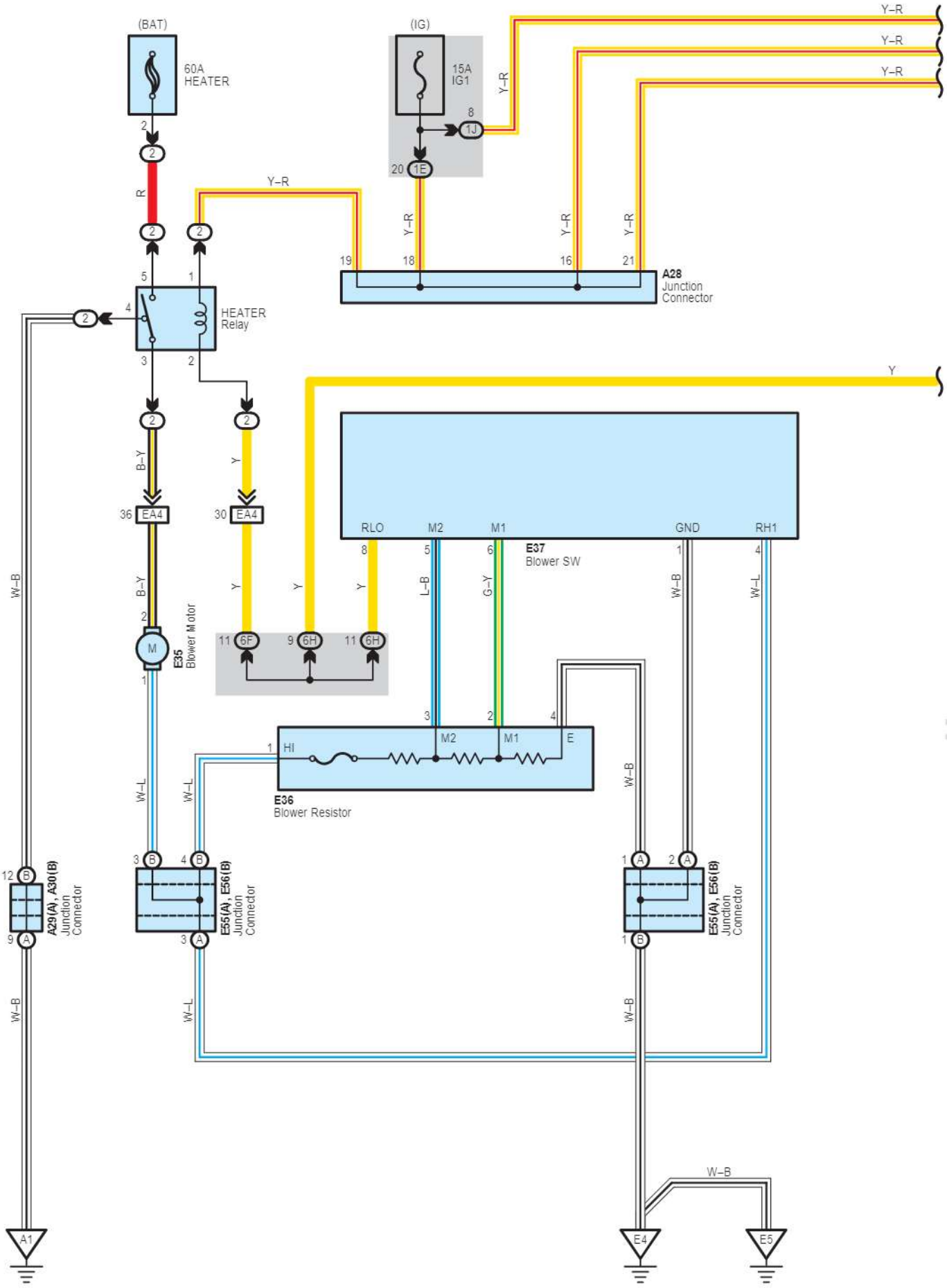
Code	See Page	Joining Wire Harness and Wire Harness (Connector Location)
BE1	51	Engine Wire and Instrument Panel Wire (Upper the Glove Box)
BE2		
EA2	51	Instrument Panel Wire and Engine Room Main Wire (Left Kick Panel)
EA4		
EE1	51	Instrument Panel Wire and Instrument Panel Wire (Instrument Panel RH)
EK2	51	Instrument Panel Wire and Floor Wire (Right Kick Panel)
EL1	51	Instrument Panel Wire and Floor No.2 Wire (Left Kick Panel)
EL2		

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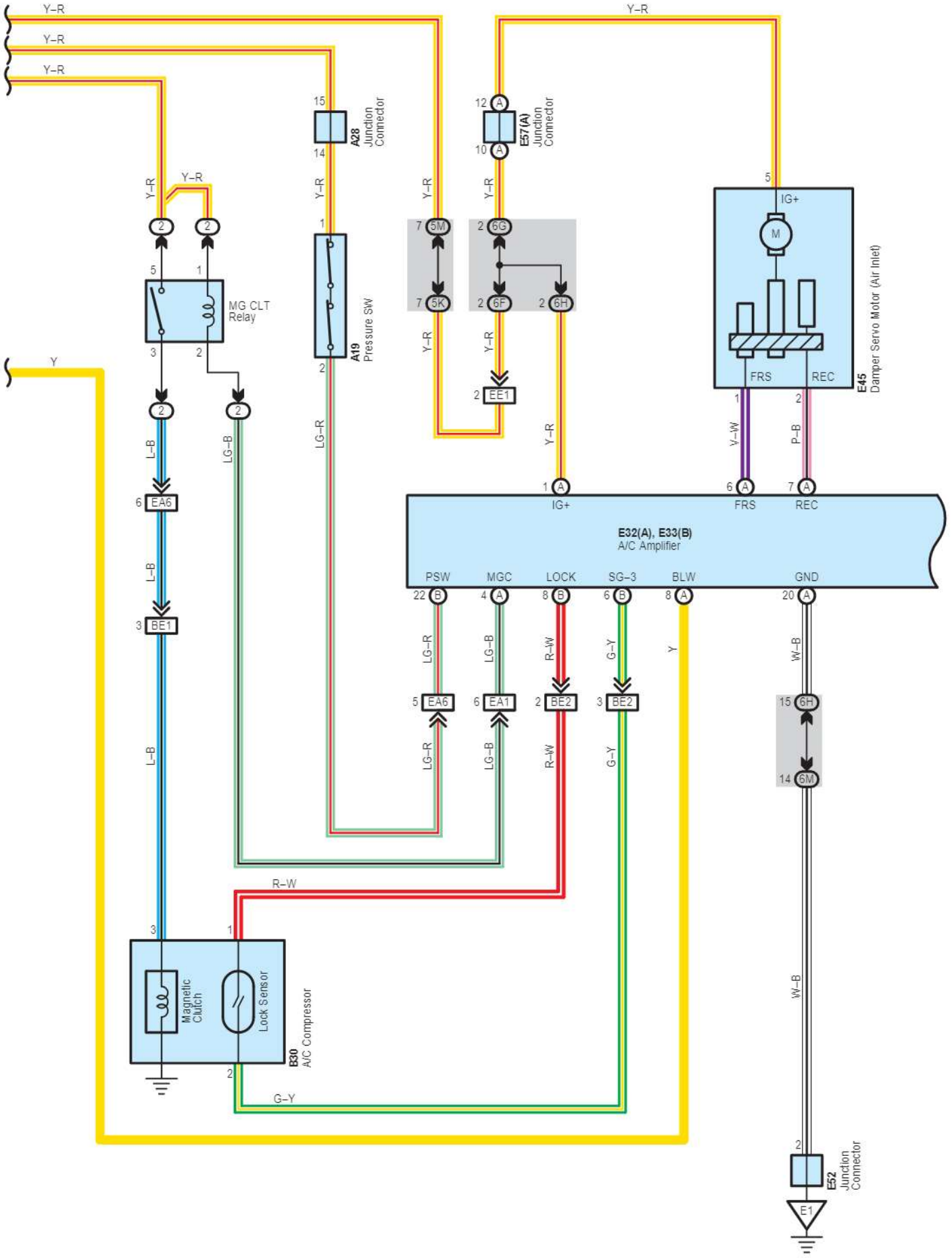
▽ : **Ground Points**

Code	See Page	Ground Points Location
A1	50	Left Fender Apron
B1	50	Rear Side of Right Bank Cylinder Block
E4	51	Left Kick Panel

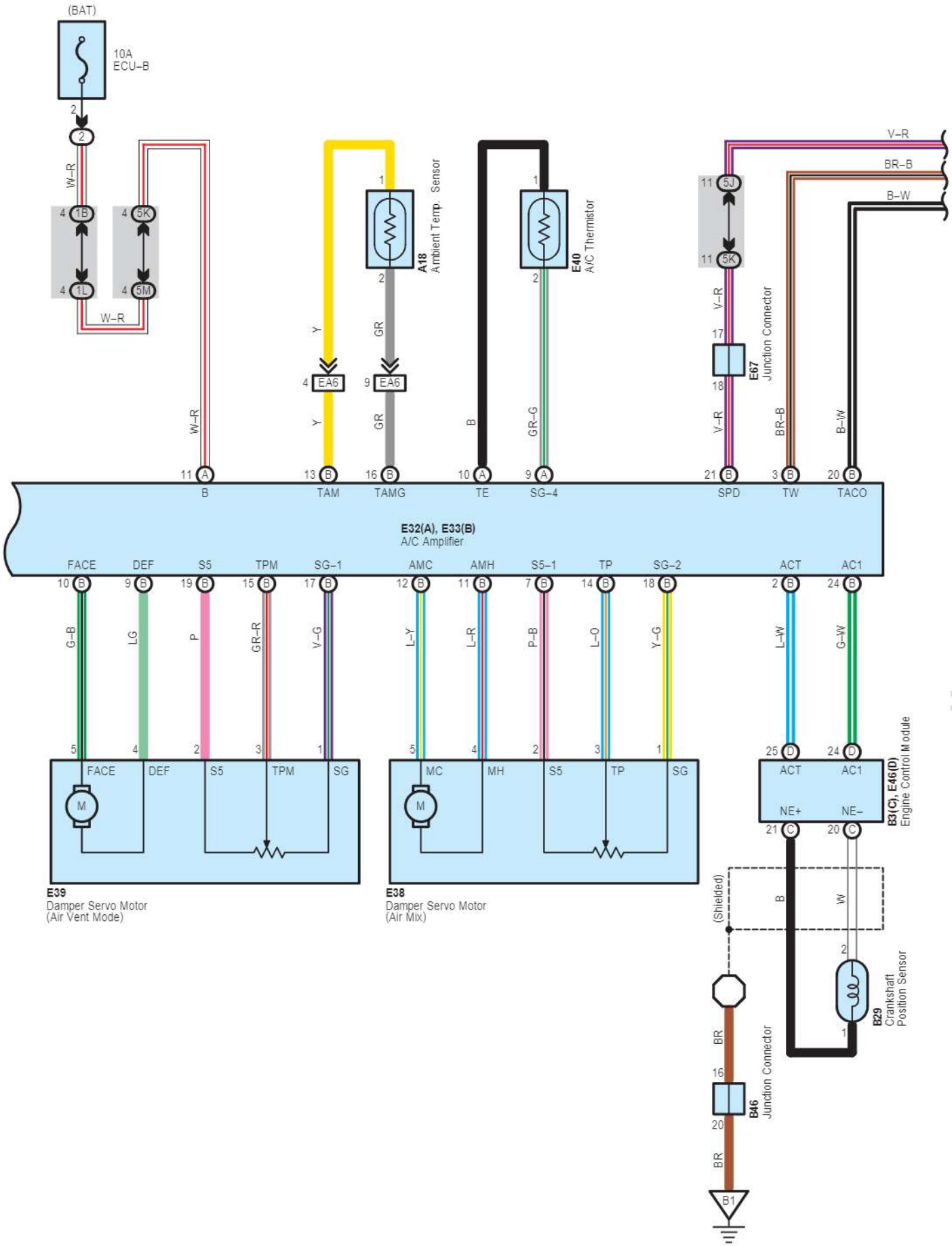
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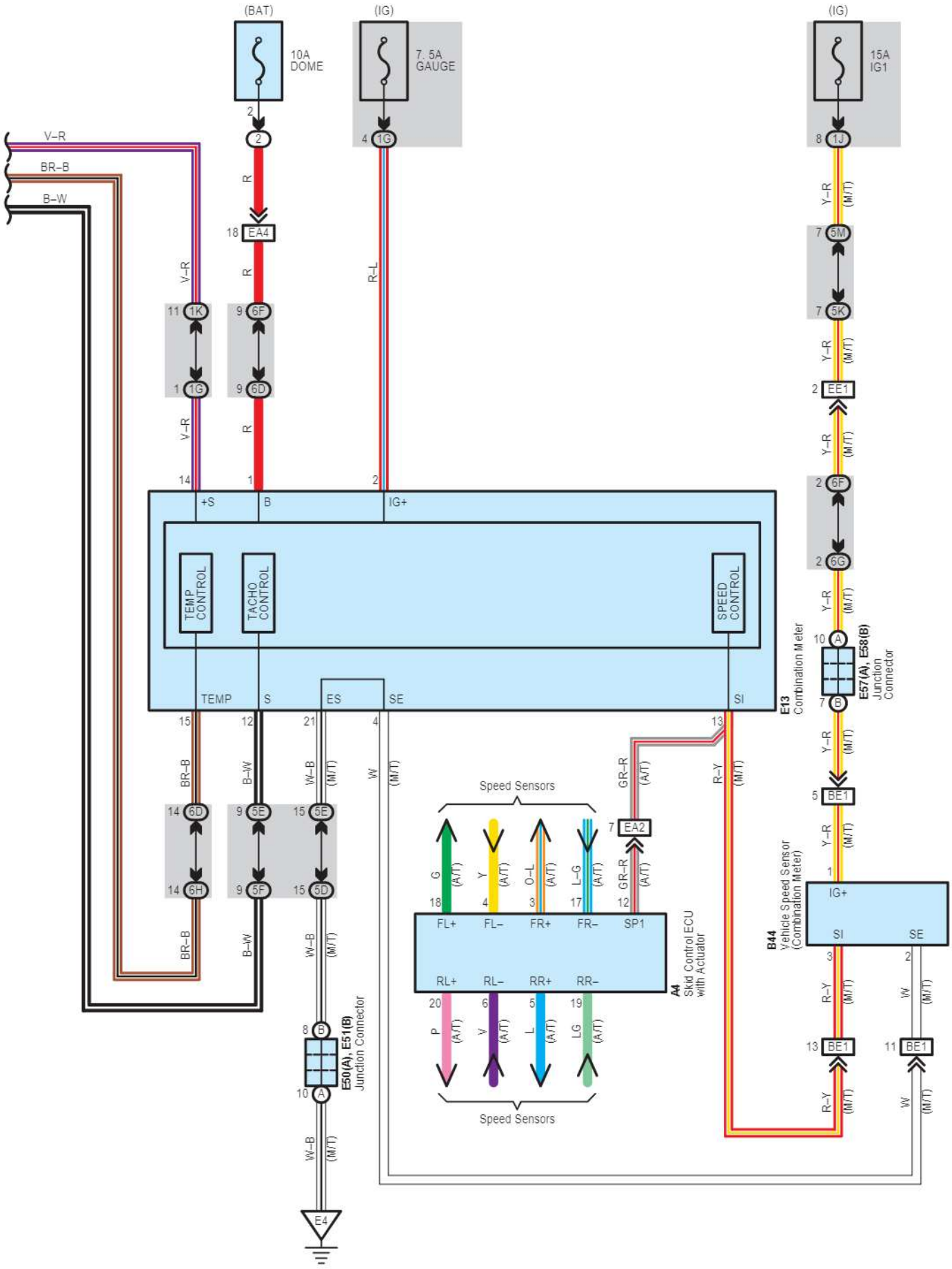
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○ : Parts Location

Code	See Page	Code	See Page	Code	See Page
A4	38	B46	45	E45	43
A18	38	E13	42	E46 D	43
A19	38	E32 A	43	E50 A	44
A28	38	E33 B	43	E51 B	44
A29 A	38	E35	43	E52	44
A30 B	38	E36	43	E55 A	44
B3 C	45	E37	43	E56 B	44
B29	40	E38	43	E57 A	44
B30	40	E39	43	E58 B	44
B44	40	E40	43	E67	44

▭ : Relay Blocks

Code	See Page	Relay Blocks (Relay Block Location)
2	22	Engine Room R/B No.2 (Engine Compartment Left)

▭ : Junction Block and Wire Harness Connector

Code	See Page	Junction Block and Wire Harness (Connector Location)
1B	24	Engine Room Main Wire and Driver Side J/B (Lower Finish Panel)
1E		
1G	25	Instrument Panel Wire and Driver Side J/B (Lower Finish Panel)
1J		
1K		
1L		
5D	28	Instrument Panel Wire and Center J/B LH (Instrument Panel LH)
5E		
5F		
5J		
5K		
5M		
6D	32	Instrument Panel Wire and Center J/B RH (Instrument Panel RH)
6F		
6G		
6H		
6M		

▭ : Connector Joining Wire Harness and Wire Harness

Code	See Page	Joining Wire Harness and Wire Harness (Connector Location)
BE1	51	Engine Wire and Instrument Panel Wire (Upper the Glove Box)
BE2		
EA1	51	Instrument Panel Wire and Engine Room Main Wire (Left Kick Panel)
EA2		
EA4		
EA6	51	Instrument Panel Wire and Engine Room Main Wire (Right Kick Panel)
EE1	51	Instrument Panel Wire and Instrument Panel Wire (Instrument Panel RH)

▽ : Ground Points

Code	See Page	Ground Points Location
A1	50	Left Fender Apron
B1	50	Rear Side of Right Bank Cylinder Block
E1	51	Instrument Panel Brace RH
E4	51	Left Kick Panel
E5	51	Right Kick Panel

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