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Troubleshoot Electrical Malfunction

Troubleshoot Wire Harness Malfunction

The following 6 steps will help troubleshoot the wire harness. Before performing any diagnosis, be sure to check the non-original parts added to the vehicle. If the vehicle is equipped with such parts, disconnect them to confirm that these added parts are not the cause of the failure.

When troubleshooting the wire harness, perform the following steps:

1. Confirm the malfunction.
2. Look for any related faults (by checking components in the same circuit).
3. Analyze the symptoms (use the circuit diagram to determine the circuit layout, the area most likely to fail and area to proceed with diagnosis).
4. Isolate the faulty area.
5. Repair the faulty area.
6. Check whether it is working properly (in this step, check whether all items of the repair circuit are working properly).

03

Voltage Test

1. Establish the condition that there is voltage at the checkpoint.

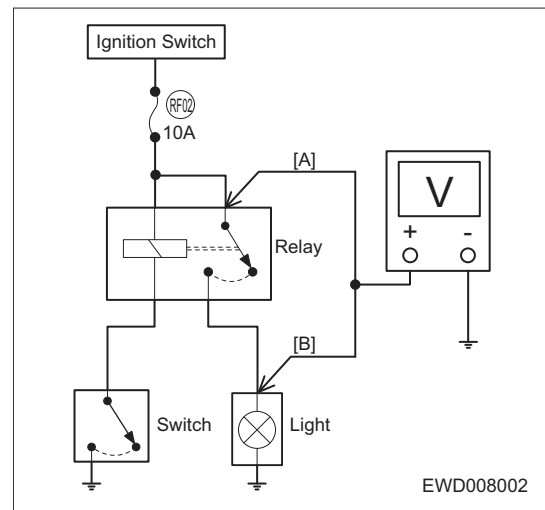
For example:

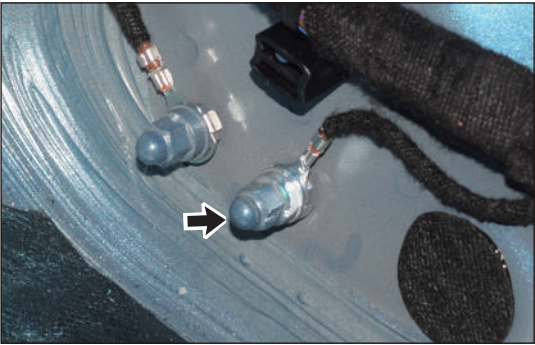
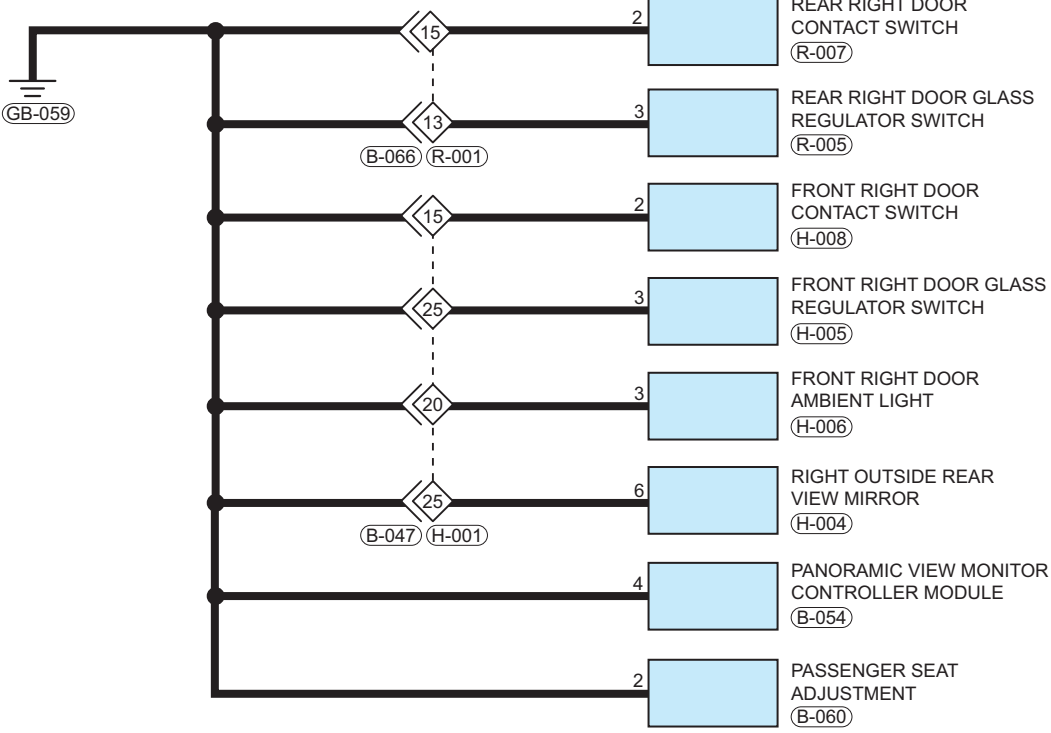
[A] – Ignition switch ON

[B] – Ignition switch and switch ON

2. Use a voltmeter to connect the negative probe (black) to a good ground point or negative battery terminal, and connect the positive probe (red) to the connector or component terminal.

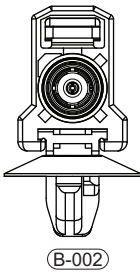
The test light can be used to replace the voltmeter during inspection.



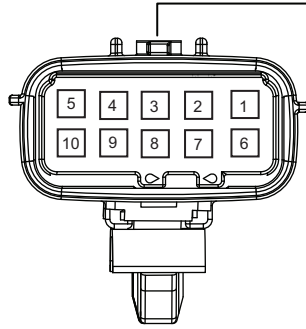
GROUND POSITION	PHYSICAL GRAPHICS
<p>INSIDE OF ROCKER UNDER RIGHT A-PILLAR</p>	
 <p>GB-059</p> <ul style="list-style-type: none"> 2 REAR RIGHT DOOR CONTACT SWITCH (R-007) 3 REAR RIGHT DOOR GLASS REGULATOR SWITCH (R-005) 2 FRONT RIGHT DOOR CONTACT SWITCH (H-008) 3 FRONT RIGHT DOOR GLASS REGULATOR SWITCH (H-005) 3 FRONT RIGHT DOOR AMBIENT LIGHT (H-006) 6 RIGHT OUTSIDE REAR VIEW MIRROR (H-004) 4 PANORAMIC VIEW MONITOR CONTROLLER MODULE (B-054) 2 PASSENGER SEAT ADJUSTMENT (B-060) 	

GDE010001

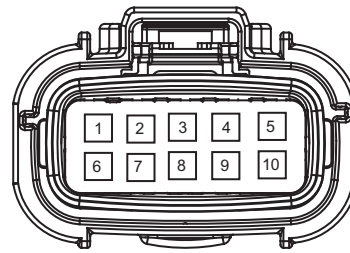
Interior Wire Harness Connector List



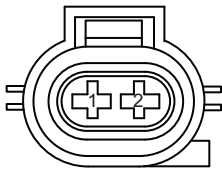
B-002



B-003
B



Q-503
B



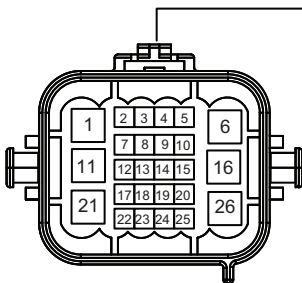
B-004
B



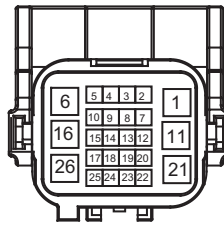
GB-006



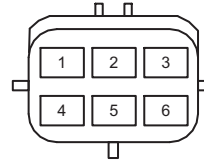
GB-007



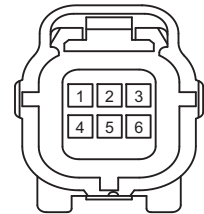
B-008
B



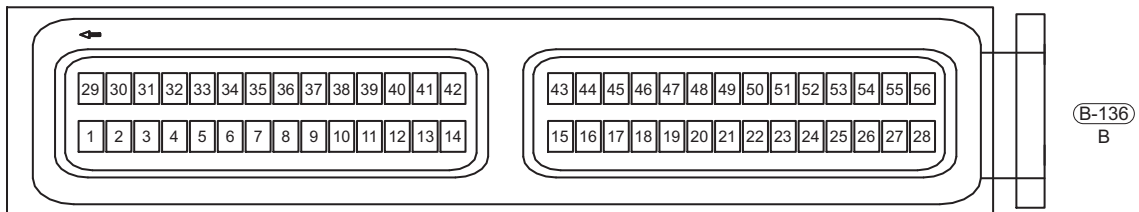
Q-009
B



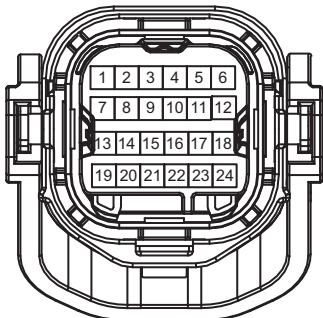
B-134
B



D-012
B

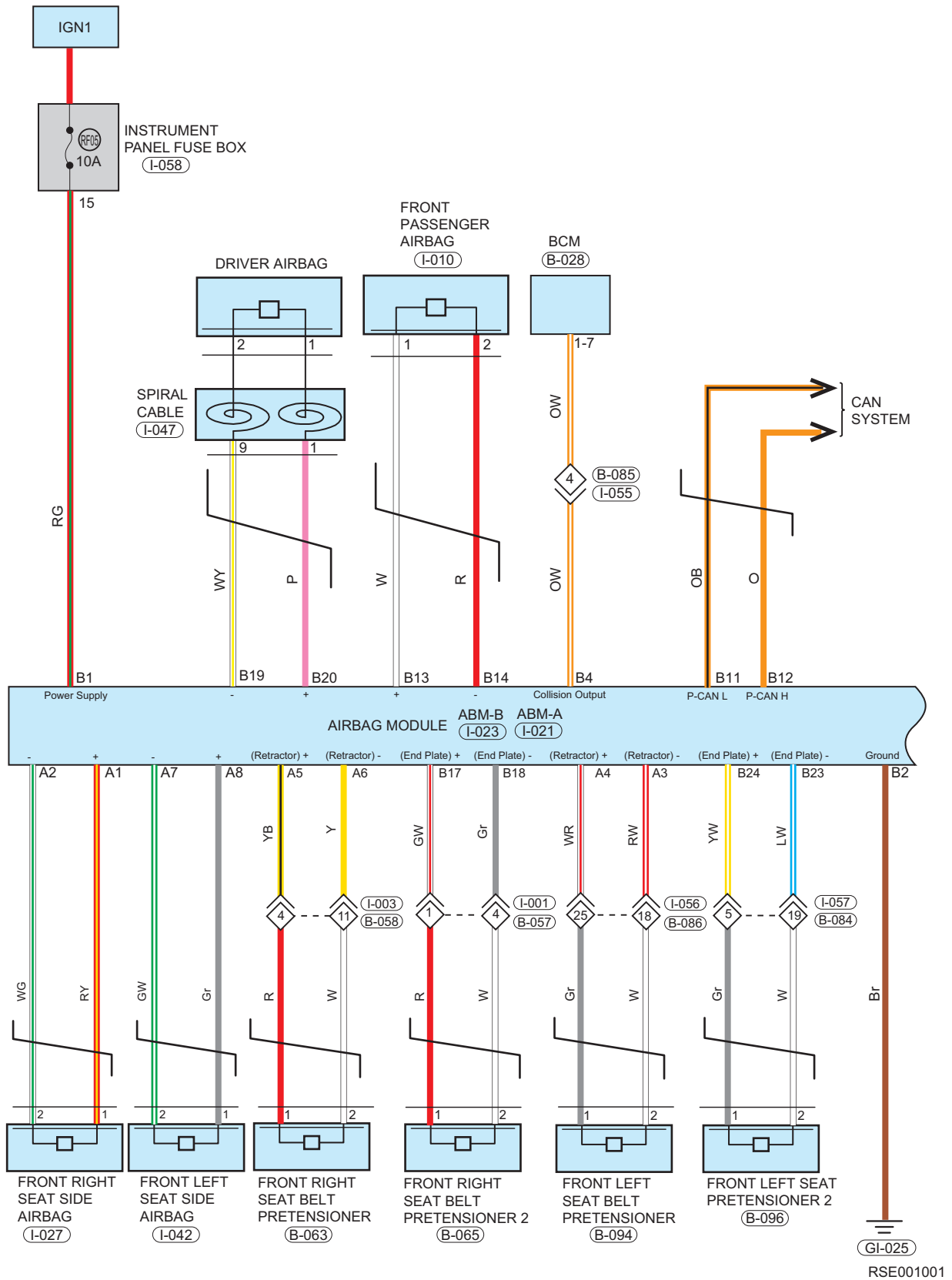


B-136
B

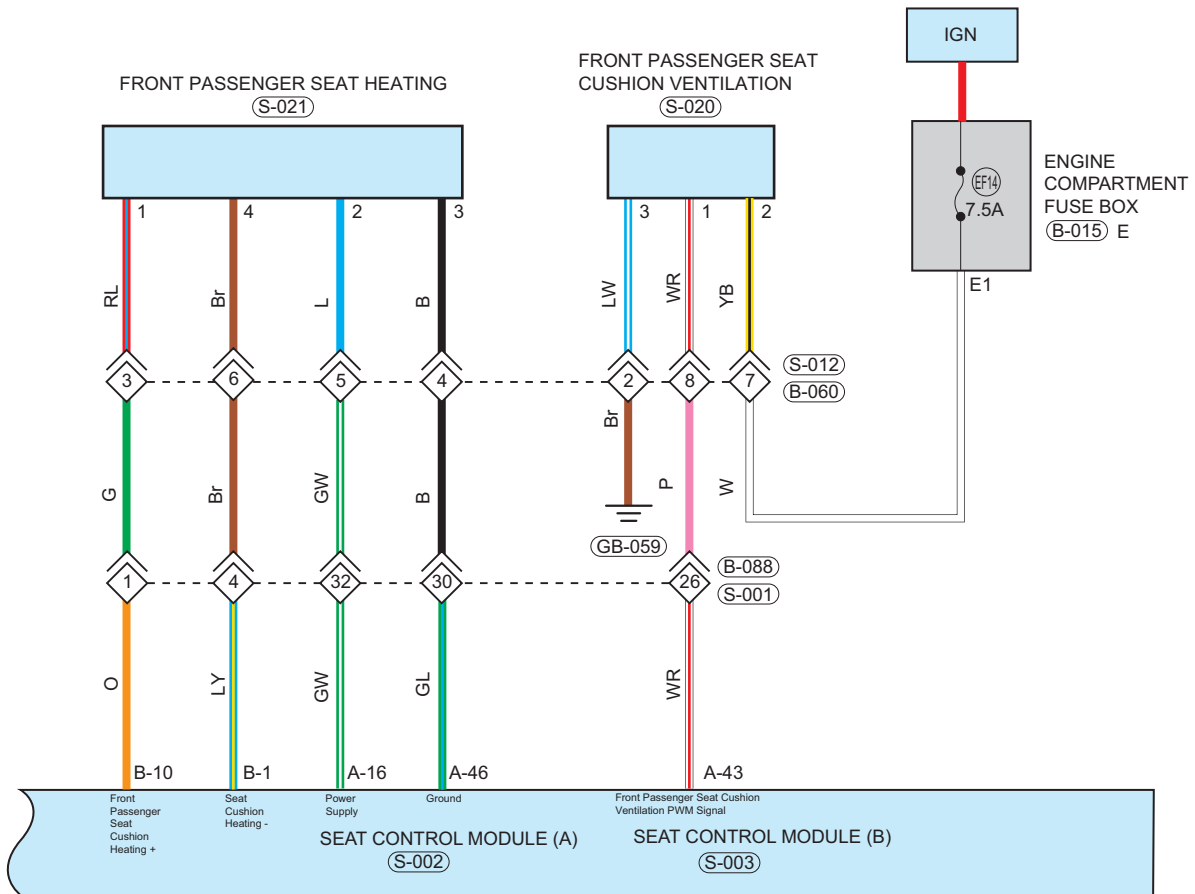


B-135
B

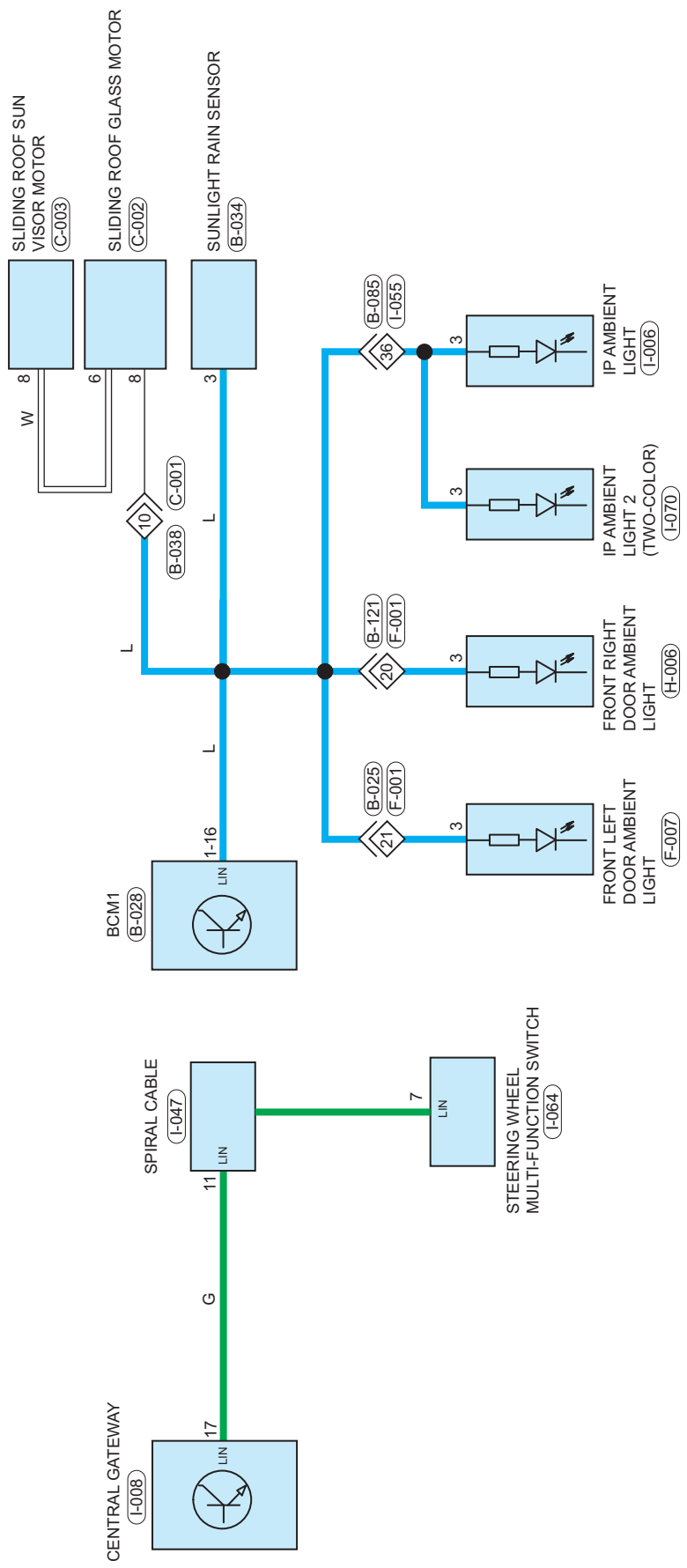
Airbag System (SRS)

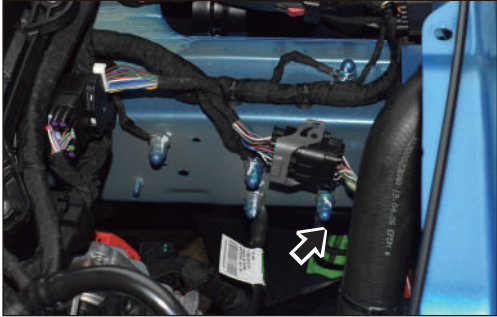
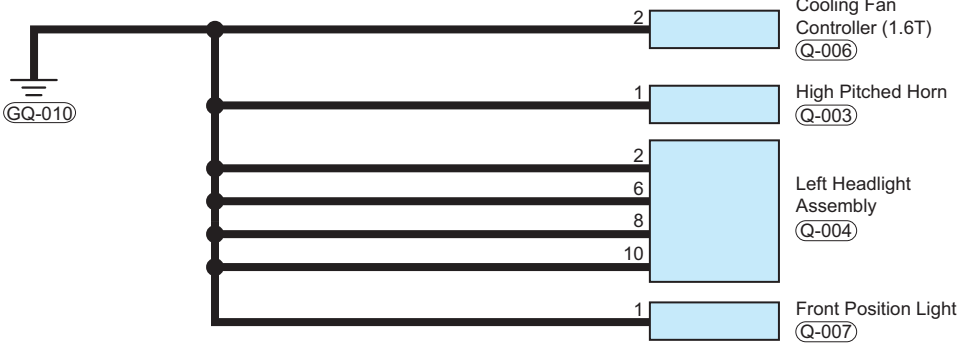
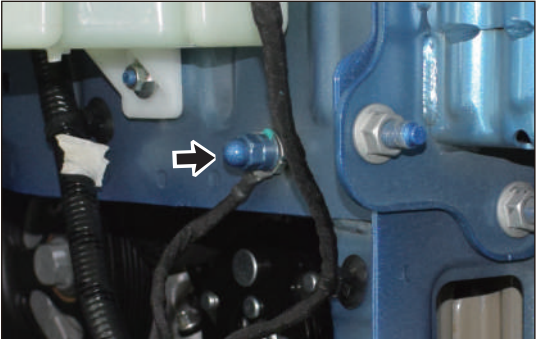
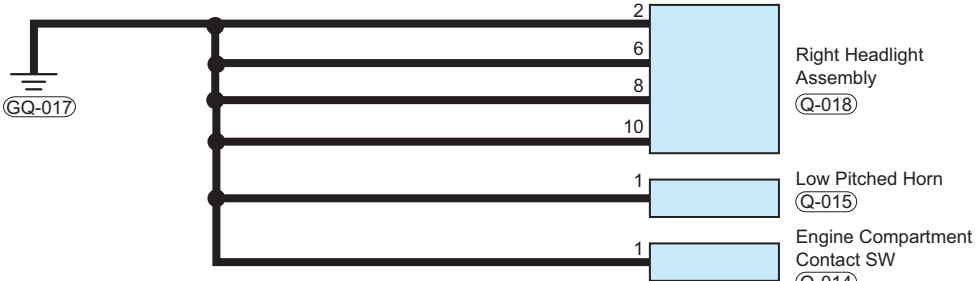


Seat Adjustment



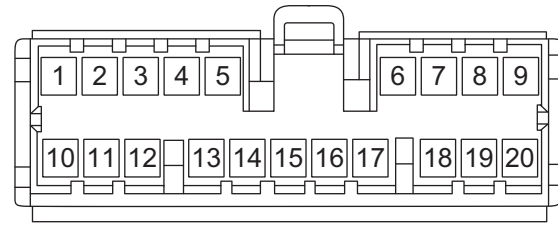
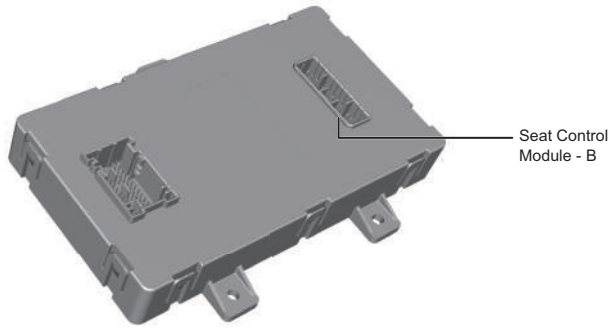
LIN Line



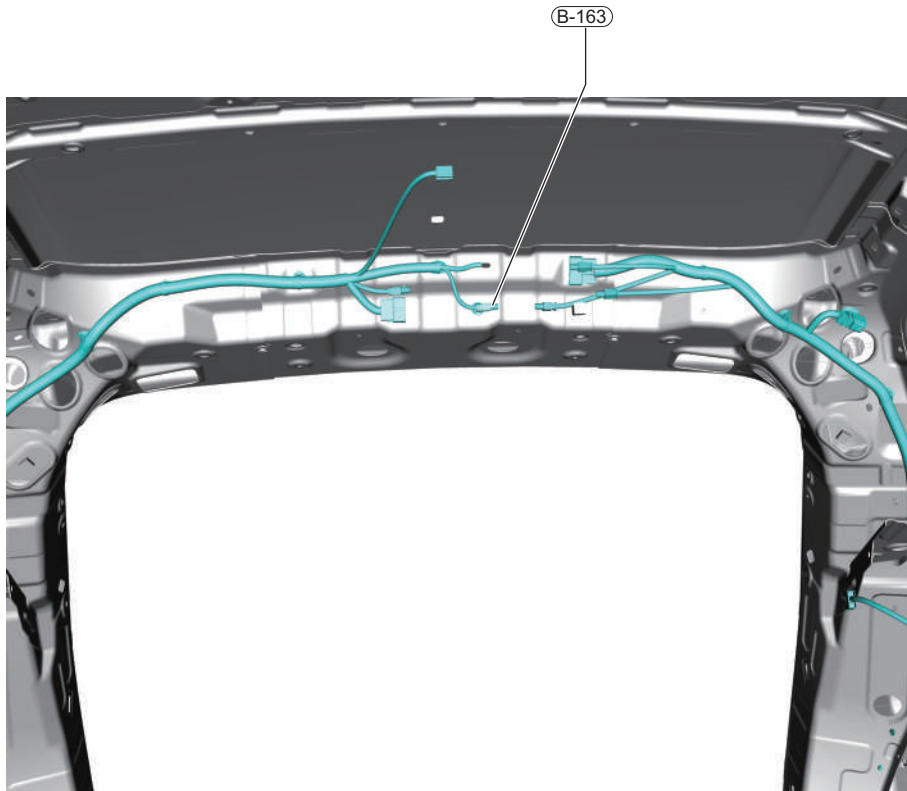
Ground Position	Physical Graphics
<p>Inside of Left Side Rail</p>	
	 <ul style="list-style-type: none"> 2 Cooling Fan Controller (1.6T) (Q-006) 1 High Pitched Horn (Q-003) 2 Left Headlight Assembly (Q-004) 6 Left Headlight Assembly (Q-004) 8 Left Headlight Assembly (Q-004) 10 Left Headlight Assembly (Q-004) 1 Front Position Light (Q-007)
Ground Position	Physical Graphics
<p>Right Side Rail Outer Plate</p>	
	 <ul style="list-style-type: none"> 2 Right Headlight Assembly (Q-018) 6 Right Headlight Assembly (Q-018) 8 Right Headlight Assembly (Q-018) 10 Right Headlight Assembly (Q-018) 1 Low Pitched Horn (Q-015) 1 Engine Compartment Contact SW (Q-014)

GDE011001

Seat Control Module -B Terminal Definition

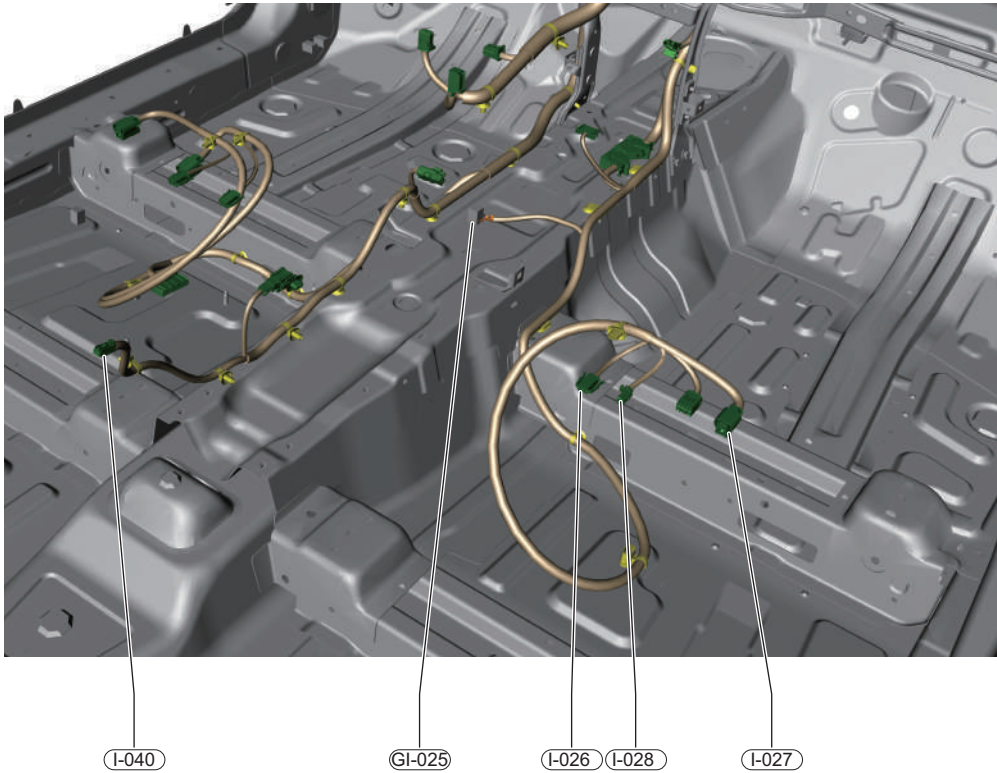


PIN	Definition	PIN	Definition
1	Front Right Seat Cushion Heating -	11	Seatback/Cushion Adjustment Common Terminal
2	Reserved Lumbar Support Adjustment	12	Seatback Adjustment Output
3	Reserved Lumbar Support Adjustment	13	Reserved Cushion Adjustment Output
4	Reserved HSD	14	Power Supply 2
5	Reserved HSD	15	Ground
6	Reserved Lumbar Support Adjustment	16	Ground
7	Reserved Lumbar Support Adjustment	17	Power Supply 1
8	Front Left Seat Cushion Heating	18	Height Adjustment Output
9	Front Left Seat Heating-	19	Horizontal Adjustment Output
10	Front Right Seat Heating +	20	Height/Horizontal Adjustment Common Terminal



WHE055007

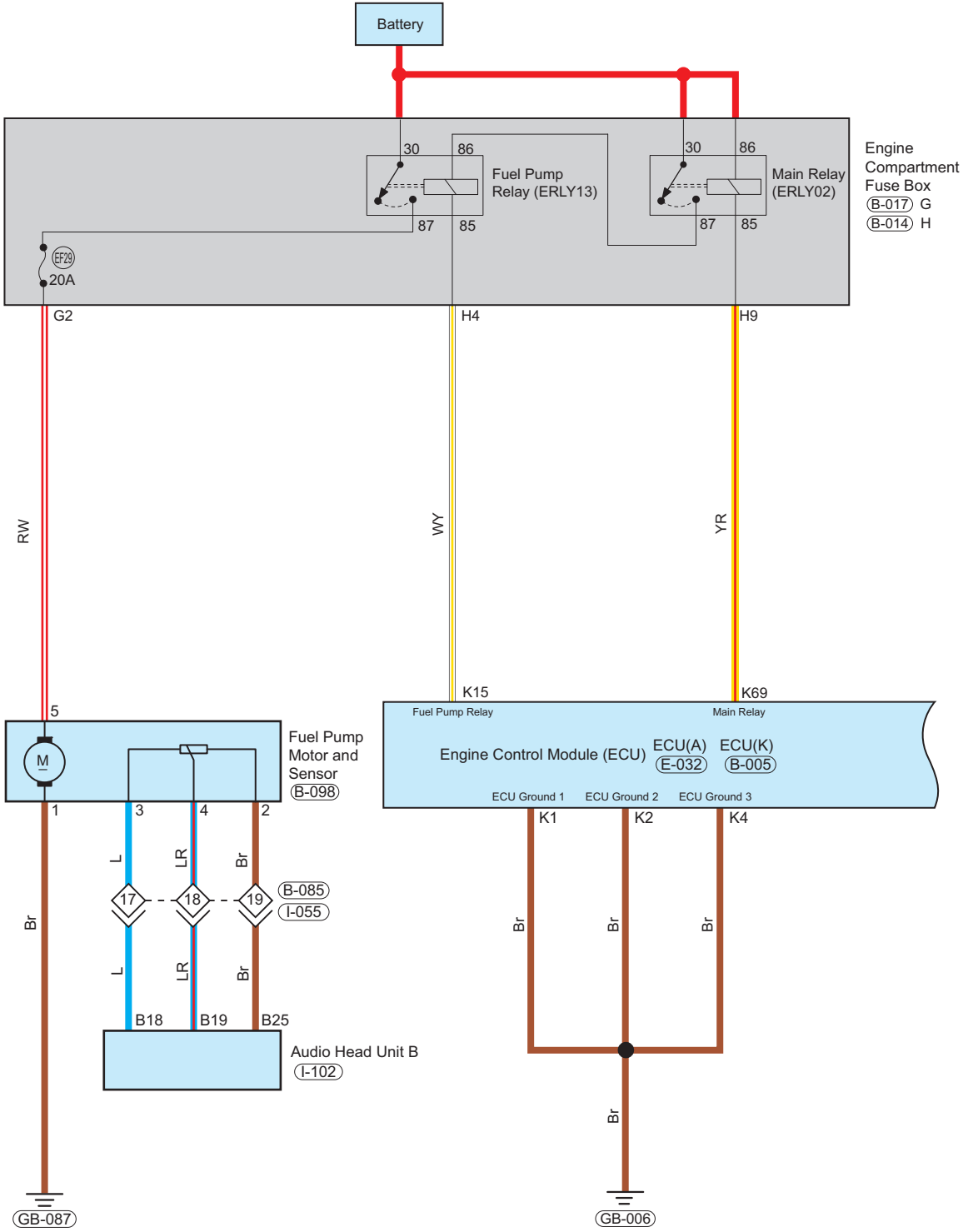
Connector Number	Connector Color/Pin	Connector Name
B-163	/	HD Reversing View



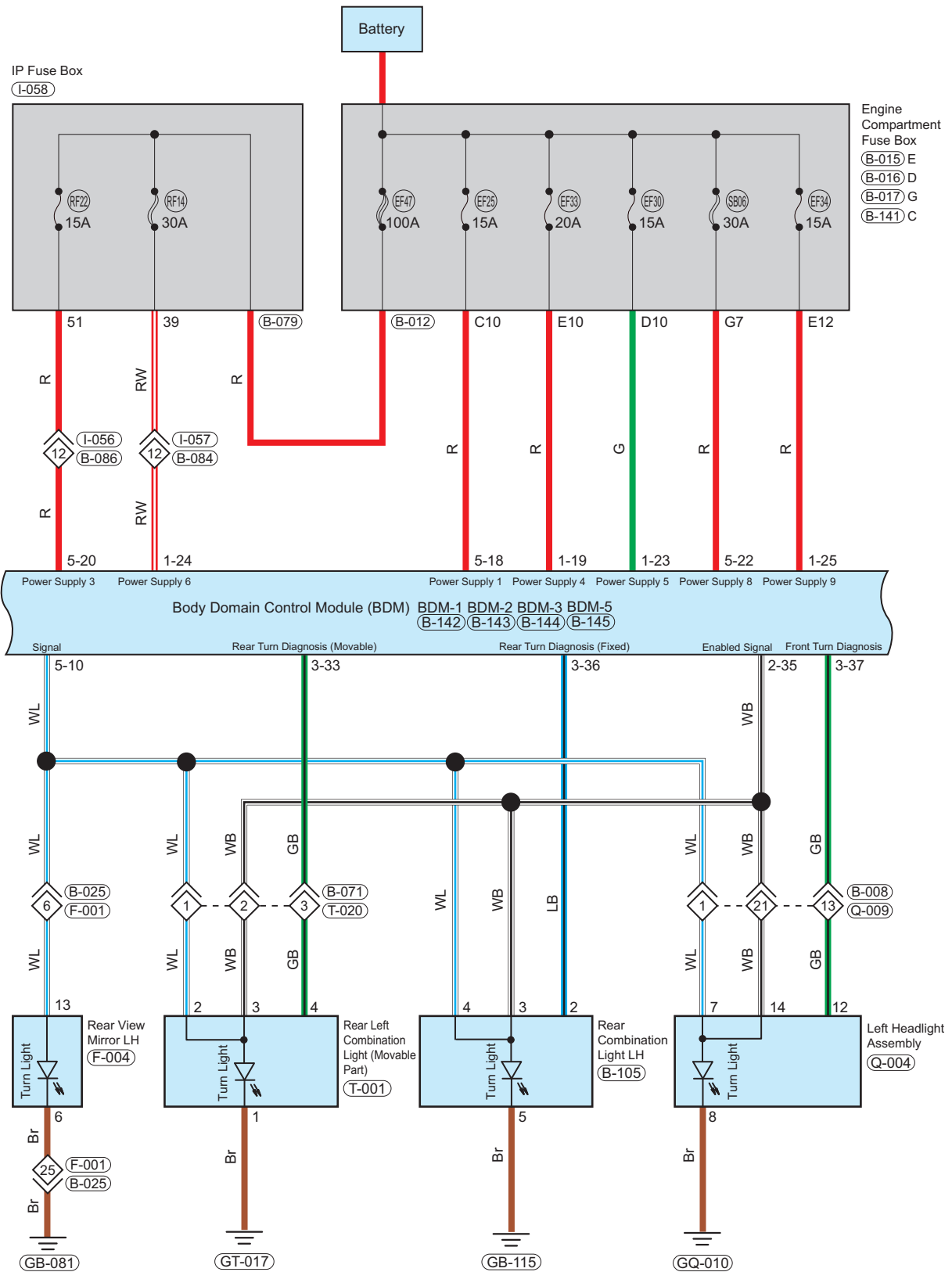
WHE029001

Connector Number	Connector Color/Pin	Connector Name
GI-025	/	Ground G504
I-026	B/2	Front Right Seat Belt Switch
I-027	Y/2	Front Right Seat Side Airbag
I-028	W/2	Front Passenger Detection
I-040	W/2	USB Charging Module

1.6T Engine Control System (EMS) Fuel Supply System (1.6T)



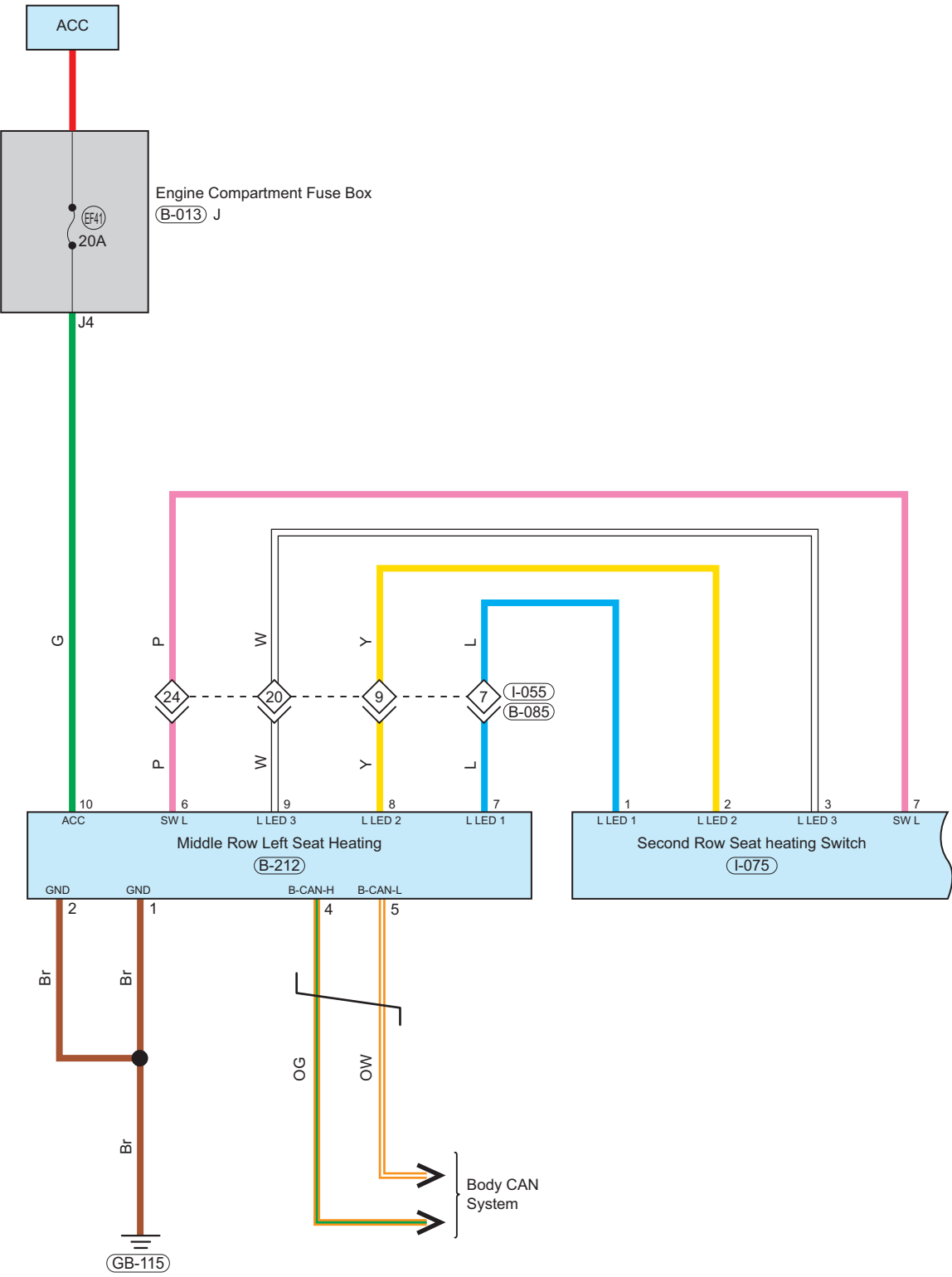
Turn Light



11

LIE017001

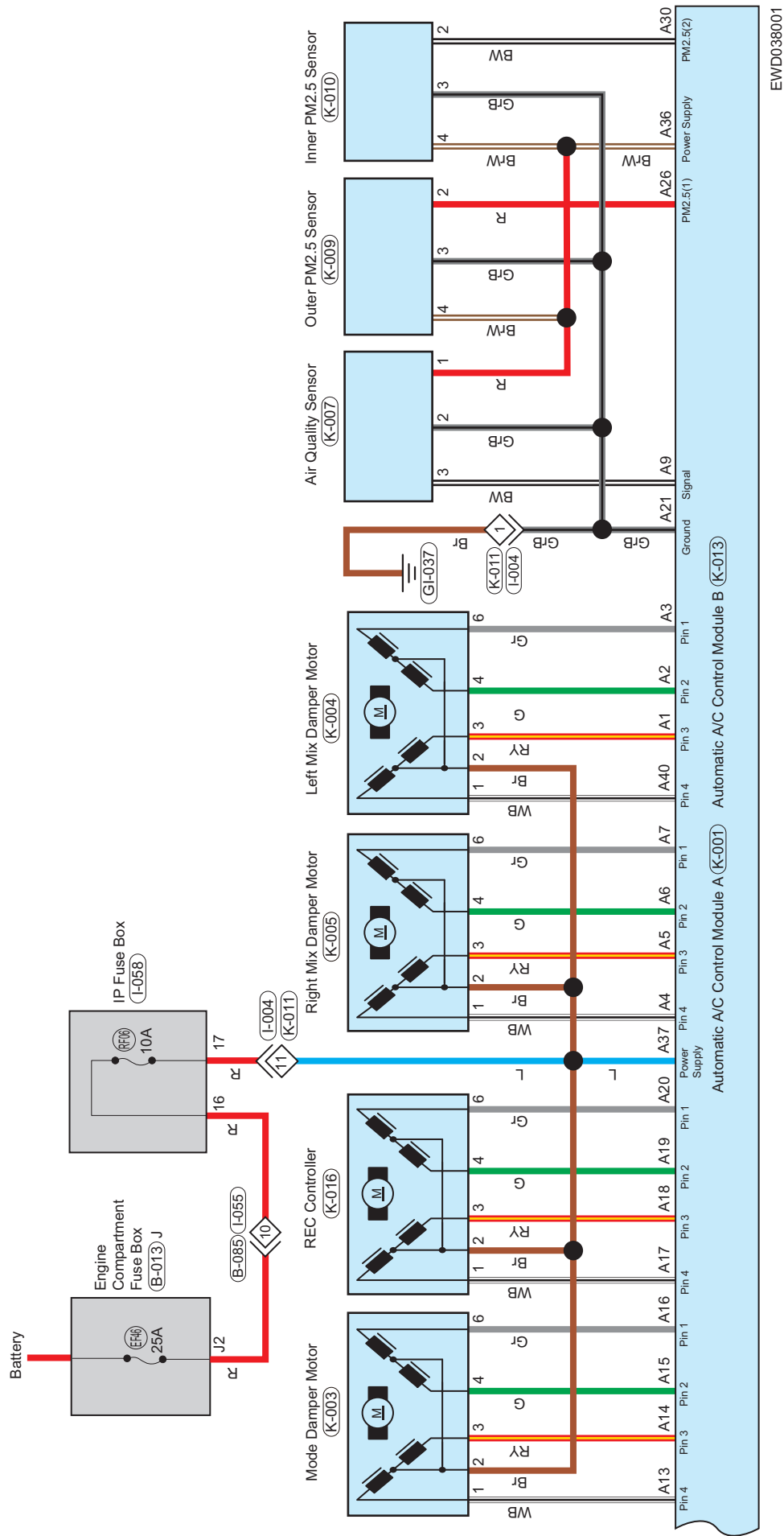
Seat Heating



11

SEE006003

Automatic A/C System (CLM)



EWD038001