

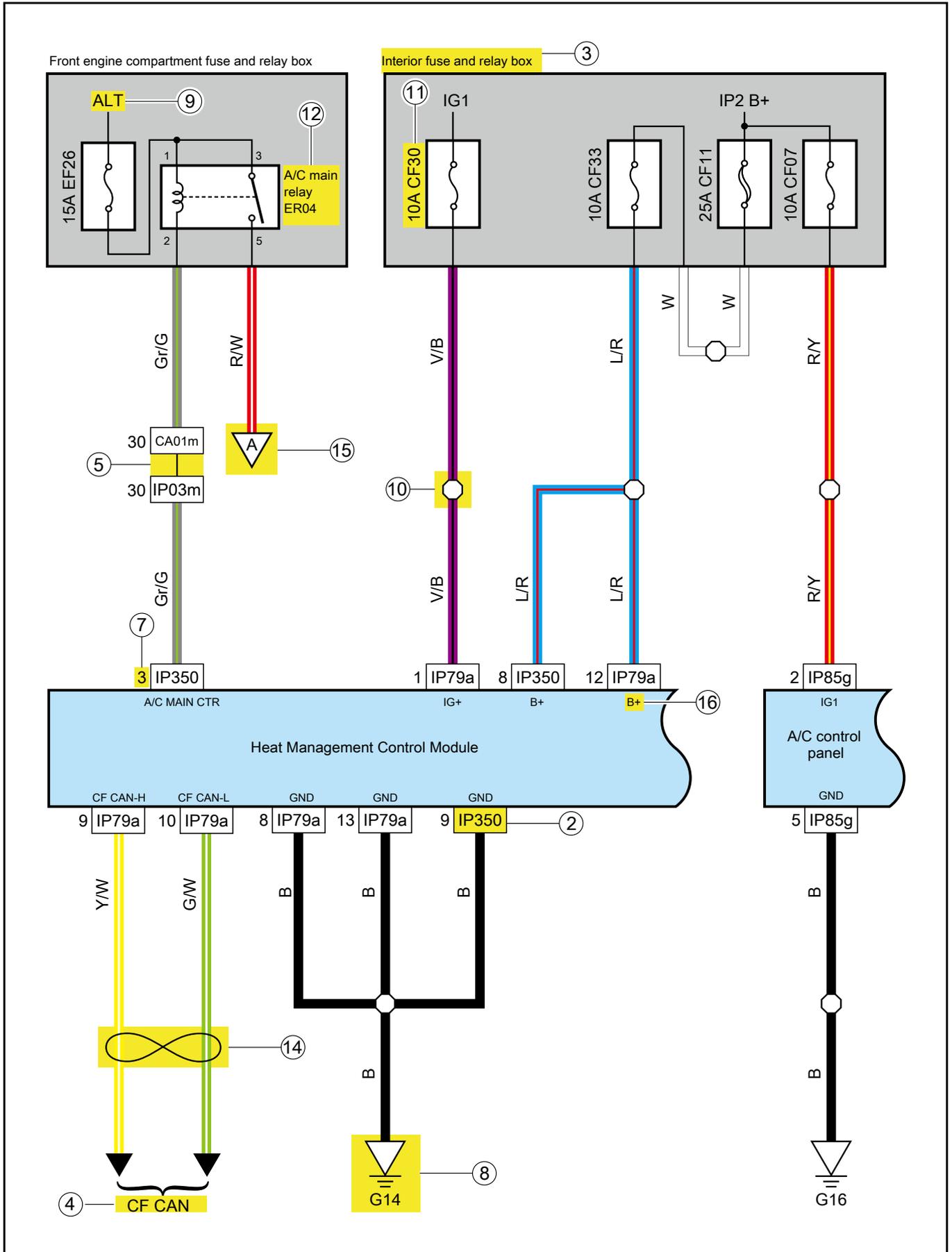
# Contents

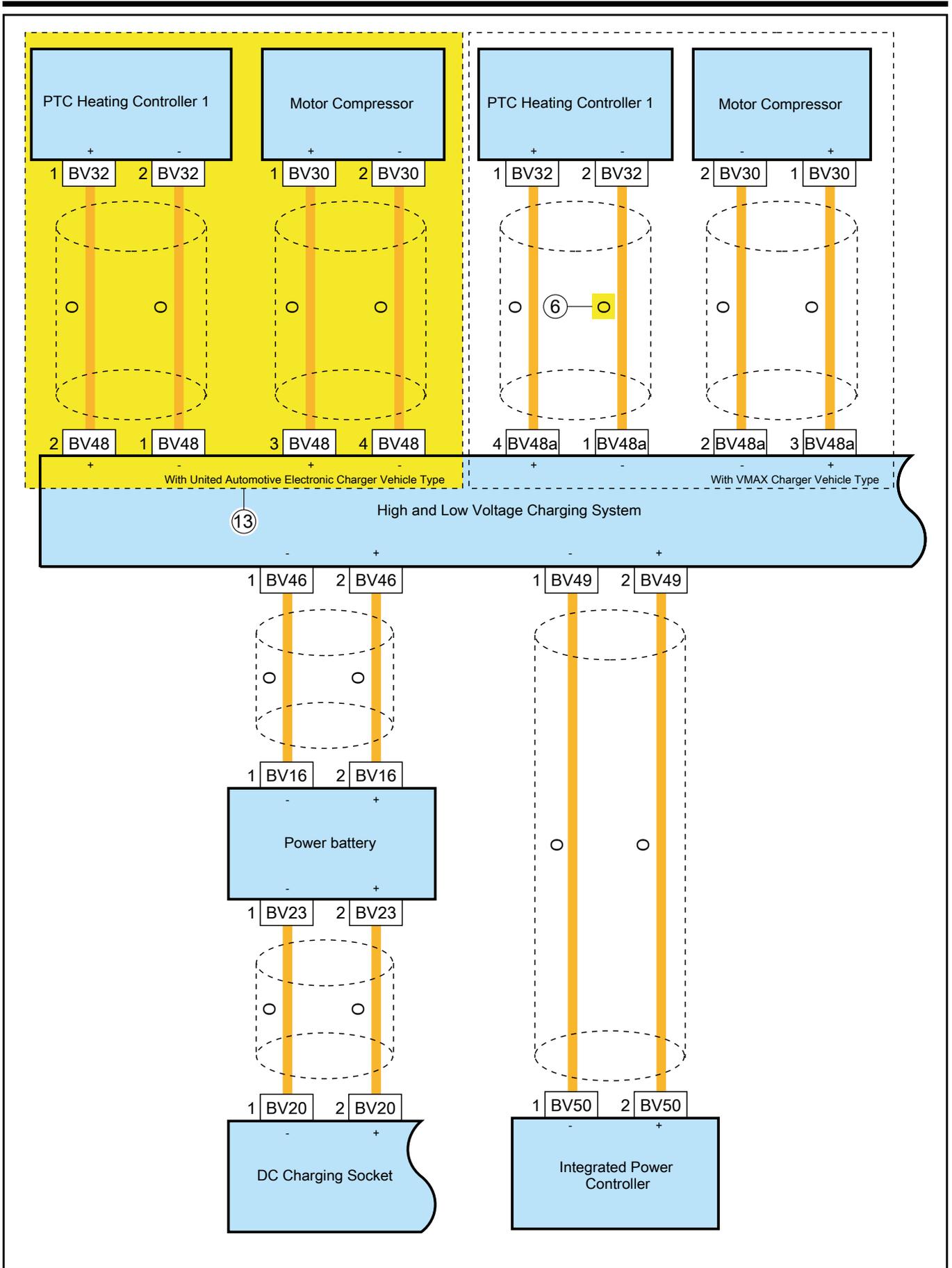
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Picture Illustration—①





- 1 System name.
- 2 Harness connector number.

The numbering rule of wiring harness connector in this circuit atlas is based on the wiring harness. For example, the wiring harness of the backplane in the backplane wiring harness is connected to the instrument wiring harness connector 1, and the number is so01h, where so is the wiring harness code, and 01h is the connector serial number.

The following table shows the harnesses represented by their respective codes:

Defini- tion	Harness name
BE	Battery negative harness
CA	Front engine compartment harness
DR	Door harness
BV/HV	Power Harness
IP	Dashboard harness
RF	Interior lamp (roof) harness
SO	Base plate harness

**Attention:**

- 1 The definition of door harness includes four door harnesses.
- 2 Base plate harness includes Backdoor and reversing radar harness.
- 3 The details of harness connector number refer to harness layout drawing.
- 3 Part Name.
- 4 Display the system information related to the circuit connection.
- 5 The connection between plugs shall be indicated with fine solid line and covered with grey shade so as to differ from the physical harness. The physical harness shall be indicated with heavy solid line, of which the color is the same with that of actual wire.
- 6 Display the guide wire color. The color codes are shown in the following table :

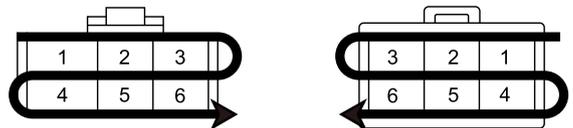
Color code	Guide wire color	Illustration
B	Black	
Gr	Grey	
Br	Brown	
L	Blue	
G	Green	
R	Red	

Color code	Guide wire color	Illustration
Y	Yellow	
O	Orange	
W	White	
V	Violet	
P	Pink	
Lg	Grass green	
C	Baby blue	

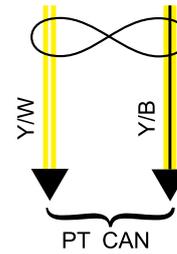
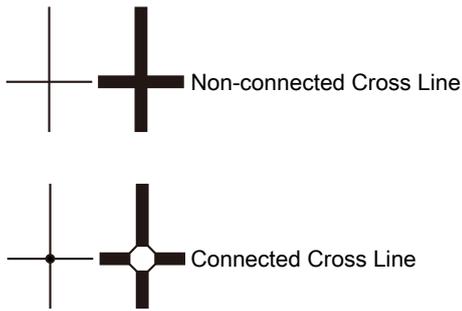
If the guide wire is of two color wire, the first letter indicates the base color of guide wire and the second letter indicates the stripe color, and they are separated with “/”.

For example, a wire marked L / W is a white stripe with a blue background.

- 7 Display the terminal numbers of socket connectors. Note that the terminal number sequences of the harness connectors that are plugged into each other or mated are mirror images of each other, as shown in the following figure:

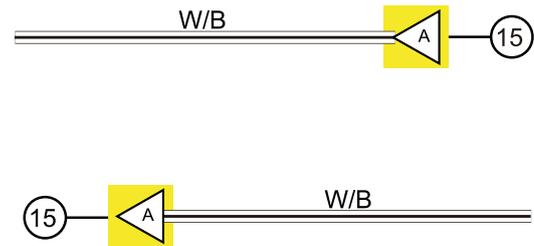
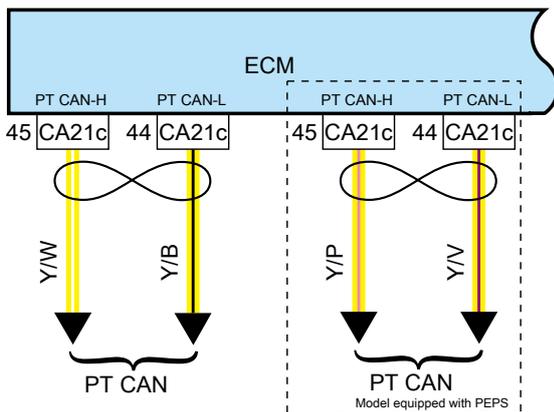


- 8 Number of grounding point. All the grounding points are indicated with the letter of G. The details of grounding point positions refer to grounding layout.
- 9 Power type supplying on the fuse is provided.
- 10 Guide wire contact point.



- 11 The fuse number consists of fuse code and serial number. The fuse number details refer to the fuse list.
- 12 The relay number shall be marked with English letters. For details, please refer to the relay list.
- 13 If the circuit diagram designs differ due to different vehicle model, engine type or configurations, indicate with dashed line in the circuit diagram and describe besides the line.

- 15 If the content of a system is so much that its circuit needs to be indicated in many pages. The start point of circuit is indicated with and the arrival point with . If more than one circuits continue in next page, they will be indicated with letters B, C and so on. And the rest can be done in the same manner.

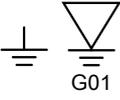
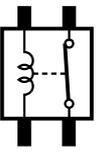
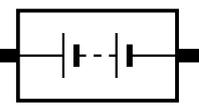
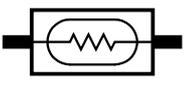
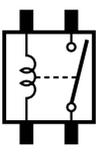
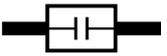
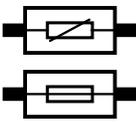
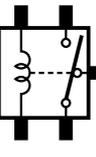
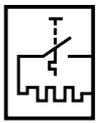
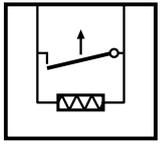
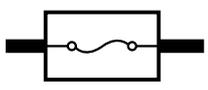
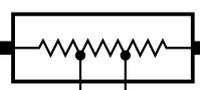
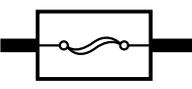
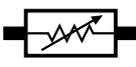
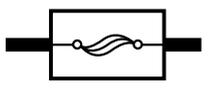
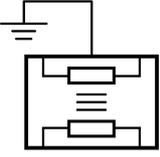
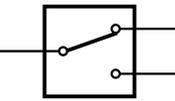
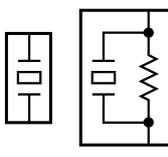
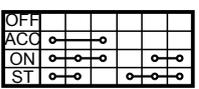


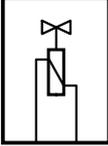
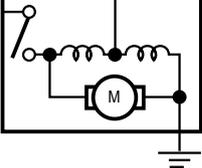
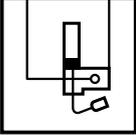
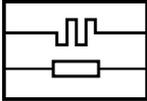
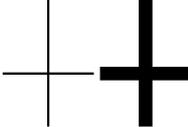
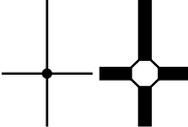
- 14 If “8” shape mark is used between circuit lines and lines, it indicates that this circuit is twisted pair wire which is mainly used for signal circuit of sensor or data communication circuit.

- 16 Terminal name.

The view direction of plug-in hole location without special instructions of all wiring harness connectors is the outlet end.

**Mark Symbol Examples**

	<p>Grounding</p>		<p>Normal Voltage Relay</p>		<p>Battery</p>
	<p>Temperature sensor</p>		<p>Normally Opened Relay</p>		<p>Capacitance</p>
	<p>Short-Slice</p>		<p>Double-throw Relay</p>		<p>Cigarette lighter</p>
	<p>Airbag</p>		<p>Resistance</p>		<p>Antenna</p>
	<p>Low Load Fuse</p>		<p>Potentiometer</p>		<p>Normally Opened Switch</p>
	<p>Intermediate Load Fuse</p>		<p>Changeable Resistor</p>		<p>Normally Closed Switch</p>
	<p>High Load Fuse</p>		<p>Ignition coil</p>		<p>Double-throw Switch</p>
	<p>Heater</p>		<p>Knock sensor</p>		<p>Ignition switch</p>

	Diode		Lamp Bulb		Twisted-pair
	Photoelectric Diode		Solenoid valve		Starter
	Lamp Emitting Diode		Horn		Seat belt alarm
	Electric motor		Clock spring		Oxygen sensor
	Limit Switch		Non-connected Cross Line		Connected Cross Line
	Shielded Wire				

## Instructions for Diagnosis and Maintenance Methods

### Fault Diagnosis Process

For the electrical circuit fault, check it by the following steps:

#### 1 Confirm the faults complained by the customer

In order to correctly repair the problem, confirm the fault phenomenon described by the customer. Carefully check the relevant components to confirm the fault phenomenon and then make a record. Disassembling of the parts is not allowed prior to non-confirmation of the fault scope or cause.

#### 2 Identification of the electrical circuit and cause analysis

Analyze and judge the whole circuit from the power supply to grounding of the faulty part based on the electrical circuit of subsystem, and confirm the scheme of maintenance and operation. If it is impossible to confirm the scheme of maintenance and operation, refer to the description and operation set forth in the Maintenance Manual, so as to understand the operating principle of the system. Meanwhile, it is necessary to inspect other common electrical circuit together with the faulty circuit, such as the common electrical circuit for fuse, grounding and switch systems. Inspect the common electrical circuit that is not checked in step 1. If other parts in the common circuit operate normally, it indicates that the fault is in its own circuit; If the parts in the common circuit fail, it is possible that the fuse or grounding is faulty.

#### 3 Checkup of the electrical circuit and parts

The circuit diagram should always be used together with the Maintenance Manual, making a reference to the checkup process of electrical circuit and parts described in the Maintenance Manual. For the module-controlled circuit, the parts should be tested by a diagnosis tester, and an effective fault diagnosis should be carried out by following a logic and reasonable operating process. Start the inspection from the most likely cause and the most easily inspected part in accordance with the Fault Diagnosis Process stated in the Maintenance Manual.

#### 4 Fault maintenance

In case of any fault, refer to the circuit diagram and description of troubleshooting methods in the Maintenance Manual For example: Troubleshooting process in case of poor grounding and troubleshooting method for harness connector.

#### 5 Confirmation of operating condition of the electrical circuit

After the maintenance is finished, confirm that the fault is eliminated, and check whether all functions have been resumed. If the fuse is blown, check all the circuits that jointly use the fuse.

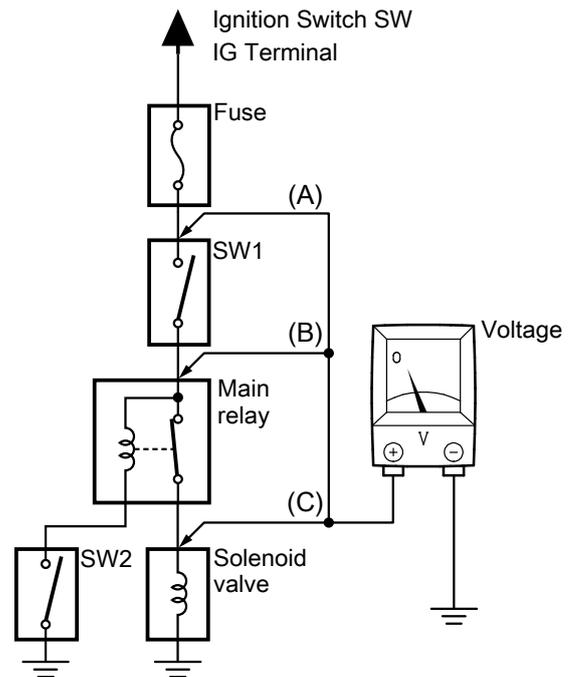
### Voltage Inspection

#### 1 Create measurement conditions at individual voltage measurement points.

For example:

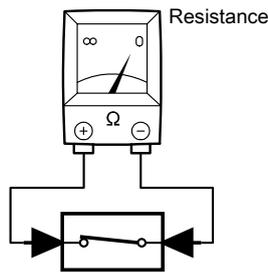
1. The ignition switch SW is on.
2. The ignition switch SW is on, and the switch SW1 is closed.
3. The igniting switch SW is on, and the switch SW1 is closed and the relay is switched on (namely, switch SW2 is disconnected).

#### 2 Connect the cathode of voltmeter to a grounding point with good condition or the cathode terminal of battery, and then connect the anode of voltmeter to the connector terminal at the point to be measured.



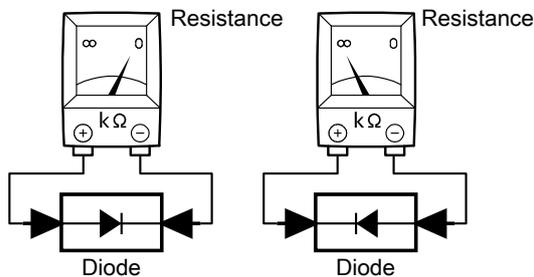
### Connectivity and Resistance Detection of the Electrical Circuit

- 1 Disconnect the battery or electrical connection of the measurement point, ensuring absence of voltage in the circuit to be measured.
- 2 Connect the two probes of ohmmeter to both ends of the electrical circuit to be measured.



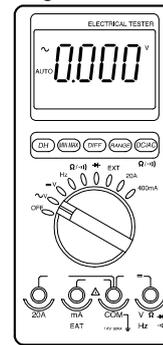
If a diode is contained in the electrical circuit, exchange the two probes and measure the resistance again. If the cathode probe of the ohmmeter is connected to the anode of the diode, and the anode probe is connected to the cathode of the diode, the reading of the ohmmeter should be close to 0. After exchanging the two probes to measure the resistance again, the reading of the ohmmeter should be close to infinity.

In case of meeting the two conditions above, it indicates that the diode can be operated normally.

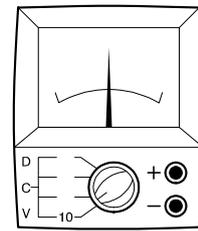


- 3 During electrical circuit inspection, it is necessary to use a voltmeter and ohmmeter with high internal resistance (above 10KΩ).

Digital Meter

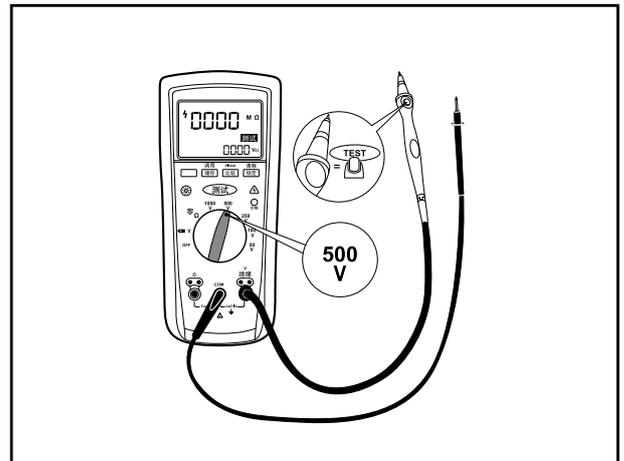


Simulated Meter



- 4 Use the insulation meter for insulation test, and the specific steps are:

1. Insert the black pen into the "COM" terminal, and insert the red pen into the "V insulated" terminal.
2. Adjust the insulation test voltage to "500V".
3. Ground the black probe contact on the vehicle body, and connect the red probe connected to the positive pole (or negative pole) of the high voltage harness terminal.
4. Press and hold the "Test" button on the insulation meter or the "Test" button on the red pen for about 20s (or until the value tends to be stable), then the digital display value is the insulation value.



#### Attention:

Insulation means that the insulation value of the vehicle's high voltage and vehicle body is greater than the design standard value. It is strictly forbidden to use an insulation meter to measure the insulation value between the low voltage circuit and the high voltage positive and negative poles.

#### Short Circuit Inspection

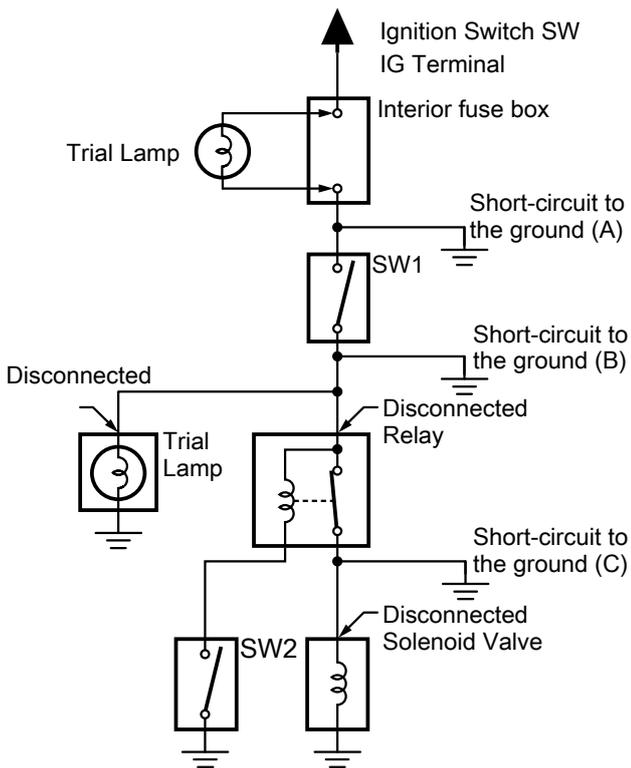
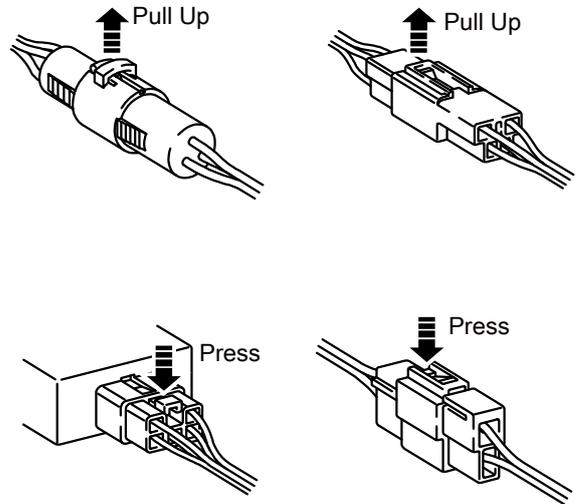
- 1 Remove the blown fuse, and disconnect all loads of the fuse.
- 2 Connect a test lamp to both ends of the blown fuse box.
- 3 After setting up the following testing conditions, the test lamp should be lit.

For example:

1. The ignition switch SW is on.
2. The ignition switch SW is on, and the switch SW1 is closed.
3. The igniting switch SW is on, and the switch SW1 is closed and the relay is switched on (namely, switch SW2 is disconnected).
4. Disconnect and connect both connectors of the test lamp, and observe whether the test lamp is lit. The short circuit point is located between the measurement point where the test lamp is lit and the measurement point where the test lamp is not lit.
5. Slightly rock the faulty circuit, and find the short circuit point.

**Warning**

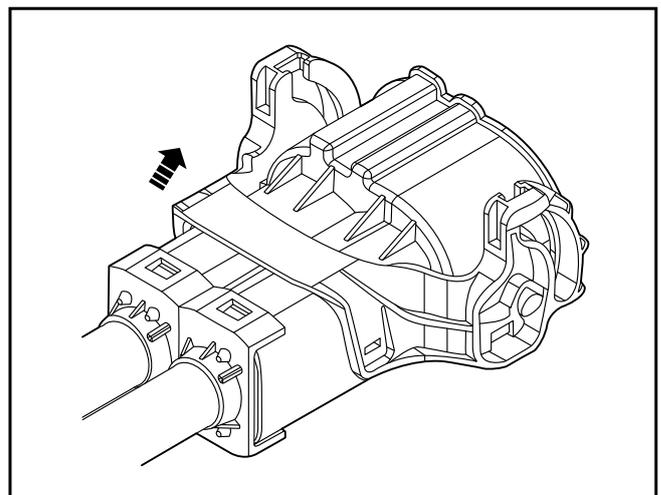
1. Unless necessary, do not open the ECU shell. (If you touch the integrated circuit pins on the ECU circuit board, the integrated circuit may be damaged due to static electricity.)
2. When changing the internal mechanism of digital instrument, ensure that no parts of your body or clothes contact with the pins of spare integrated electrical circuit.



**Disconnect the high-voltage connector**

**Type I high voltage connector:**

- 1 Gently pry the power handle latch with hand or driver.
- 2 Pull the power handle out of the lock, and then slowly raise the power handle upward, and the connector will exit slowly.
- 3 When the power handle changes from the horizontal position to the vertical position, all the connectors have been pulled out.



**Type II high voltage connector:**

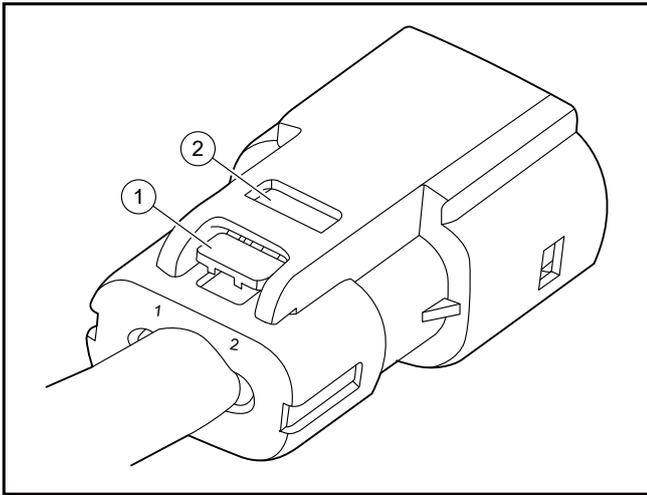
- 1 Press and hold the ring 1, pull out the connector, and stop after hearing the click sound;

**Disconnect the Connector**

When disconnecting, please press the connector, and do not pull out the harness.

Tip: Before disconnecting the connector, please confirm the type of the connector.

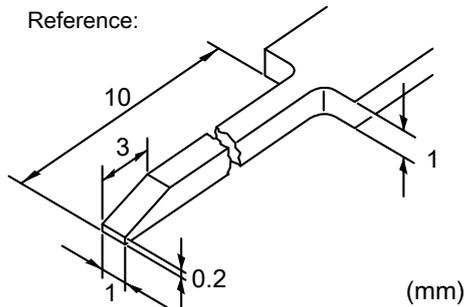
- 2 Press and hold the ring 2 and pull the connector out until it is pulled out.



**Replace the Terminal (with Terminal Retainer or Secondary Lock Device)**

- 1 Prepare a special tool for repairing the harness terminal.

Tip: Use a special tool for terminal repairing or similar object as shown in the following picture to remove the harness terminal.

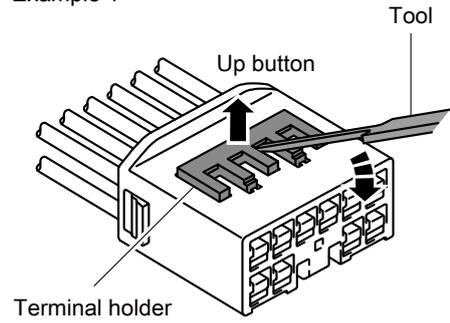


- 2 Disconnect the connector.
- 3 Release the secondary lock device of the terminal or terminal holder.
  1. Release the lock device before releasing the terminal locking plate and removing the terminal from the connector.
  2. Use a special tool to release the secondary lock device or terminal holder.

**Attention:**

Do not remove the terminal holder from the connector.

Example 1

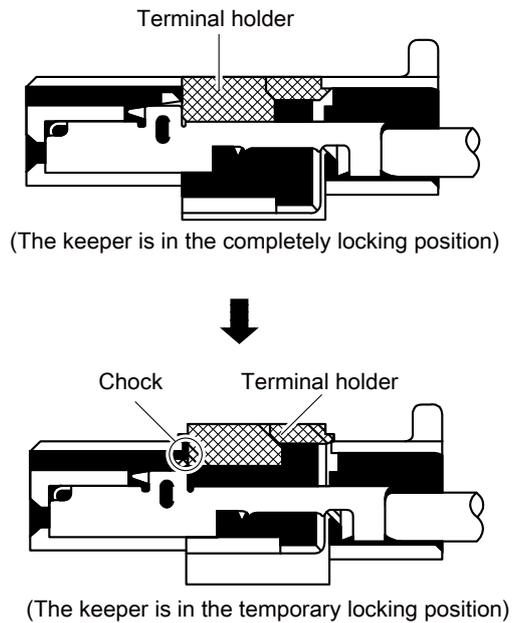


**A. Non-water proof connector**

Tip: The position where the tool is inserted varies with the shape of connector, such as the number of the terminals.

Example 1

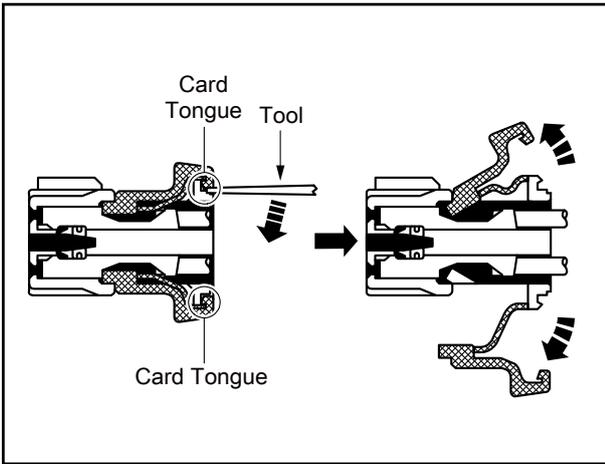
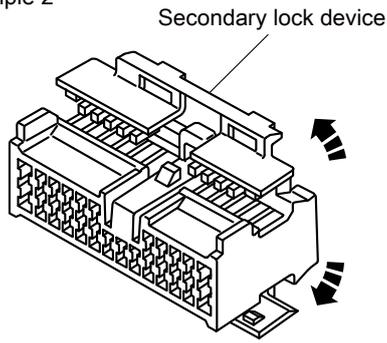
Pull upward the terminal holder to temporary locking position



Example 2

Open the secondary lock device.

Example 2

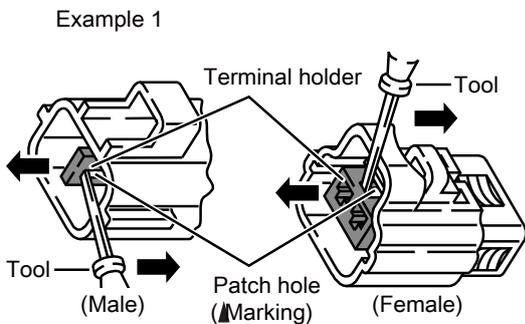


B. Water proof connector

Tip: The color of the terminal holder varies with different connectors..

For example:

Terminal holder	Connector
Black or white	Grey
Black or white	Dark grey
Grey or white	Black

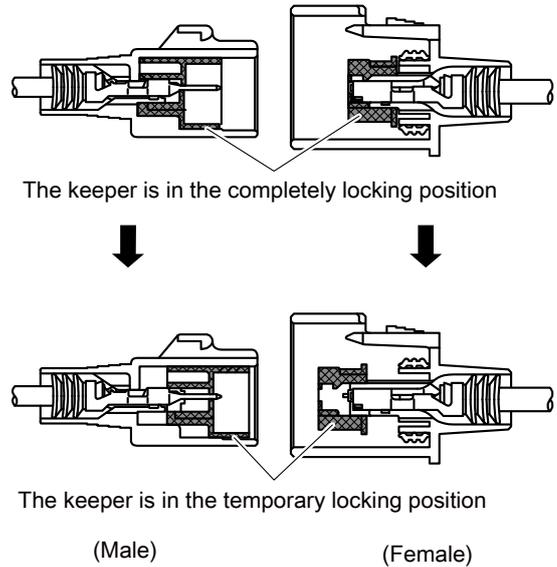


Example 1

The terminal holder can be pulled upward to the temporary locking position (upward pull type).

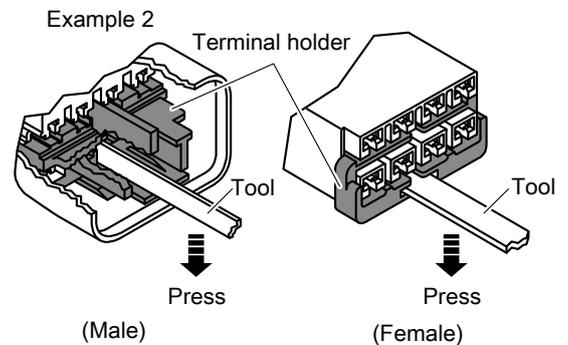
Insert the special tool into the insertion hole (Y mark) of the terminal holder, and pull upward the terminal holder to the temporary locking position.

Tip: The position where the tool is inserted varies with the shape of connector, such as the number of the terminals. Please check the position before inserting the tool.

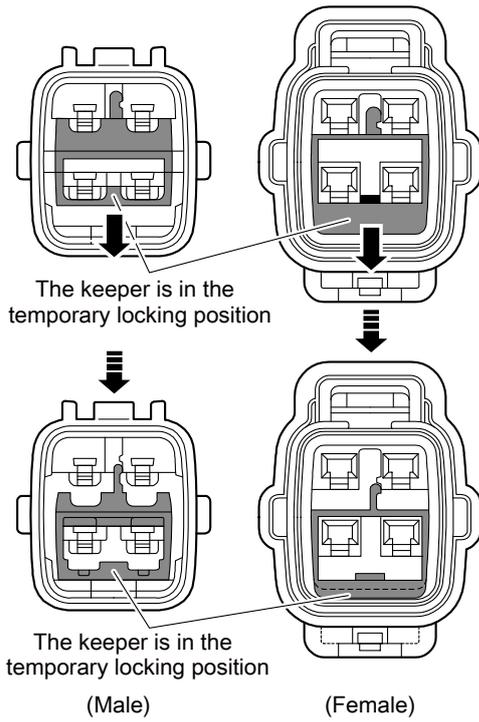


Example 2

The terminal holder cannot be pulled upward.



Press down the terminal holder to the temporary locking position.

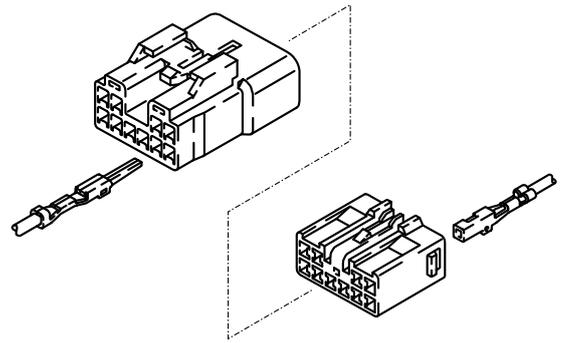


The keeper is in the temporary locking position

The keeper is in the temporary locking position

(Male)

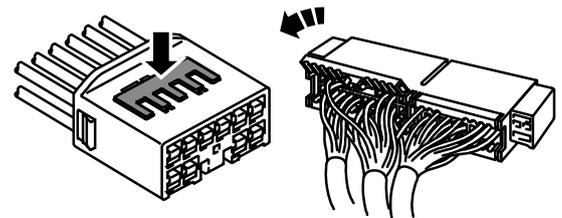
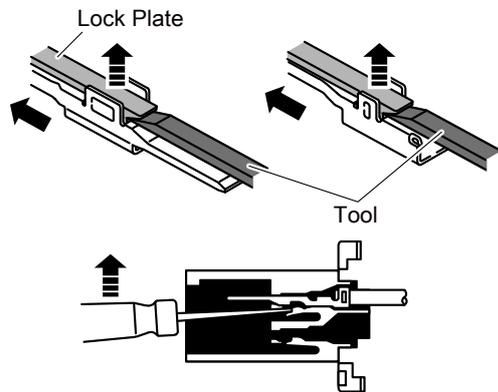
(Female)



B. Push the secondary lock device to the full locking position.

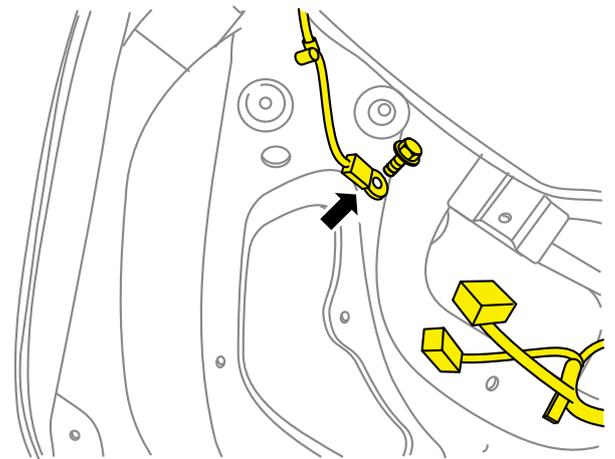
5 Connect the harness connector.

C. Release the terminal locking plate and pull out the terminal at the backward direction.



Handling Process of Poor Grounding

1 Remove the bolt at the grounding point.



2 Clean both contact surfaces of the grounding copper ring at the harness side (including body side and bolt side) with coarse abrasive cloth until the oxide is fully cleared.

4 Mount the terminal.

A. Insert the terminal.

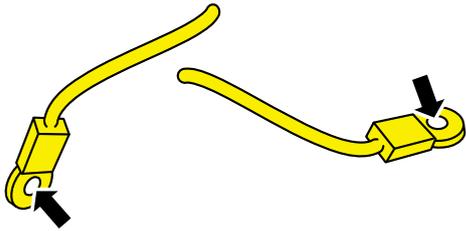
Tip:

1. Ensure the terminal is correctly aligned with the socket.
2. Insert the terminal into terminal holder until the locking plate locks the terminal.
3. Insert the terminal holder into the temporary locking position.

- 4 Mount the grounding point harness and the fixing bolt, and tighten them according to the specified torque.

Torque: M6 bolt: 9 Nm

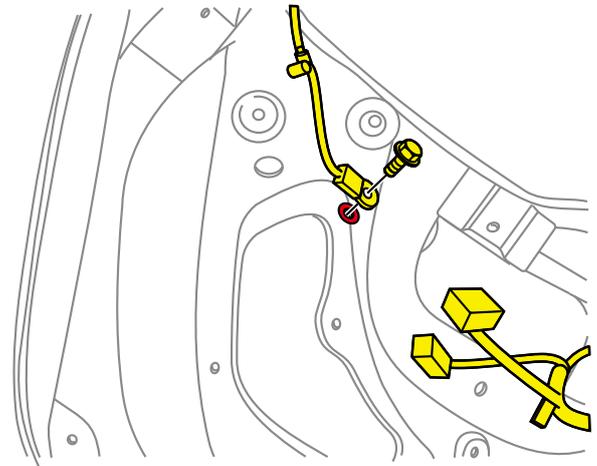
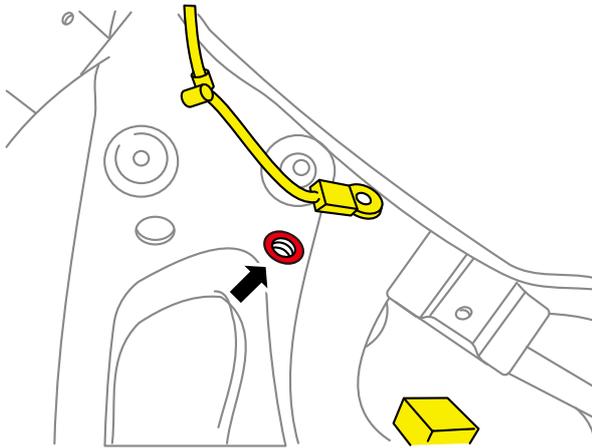
Torque: M8 bolt: 21 Nm



- 3 Clean the body side grounding point with the coarse abrasive cloth, until the surface is fully cleaned.

Attention:

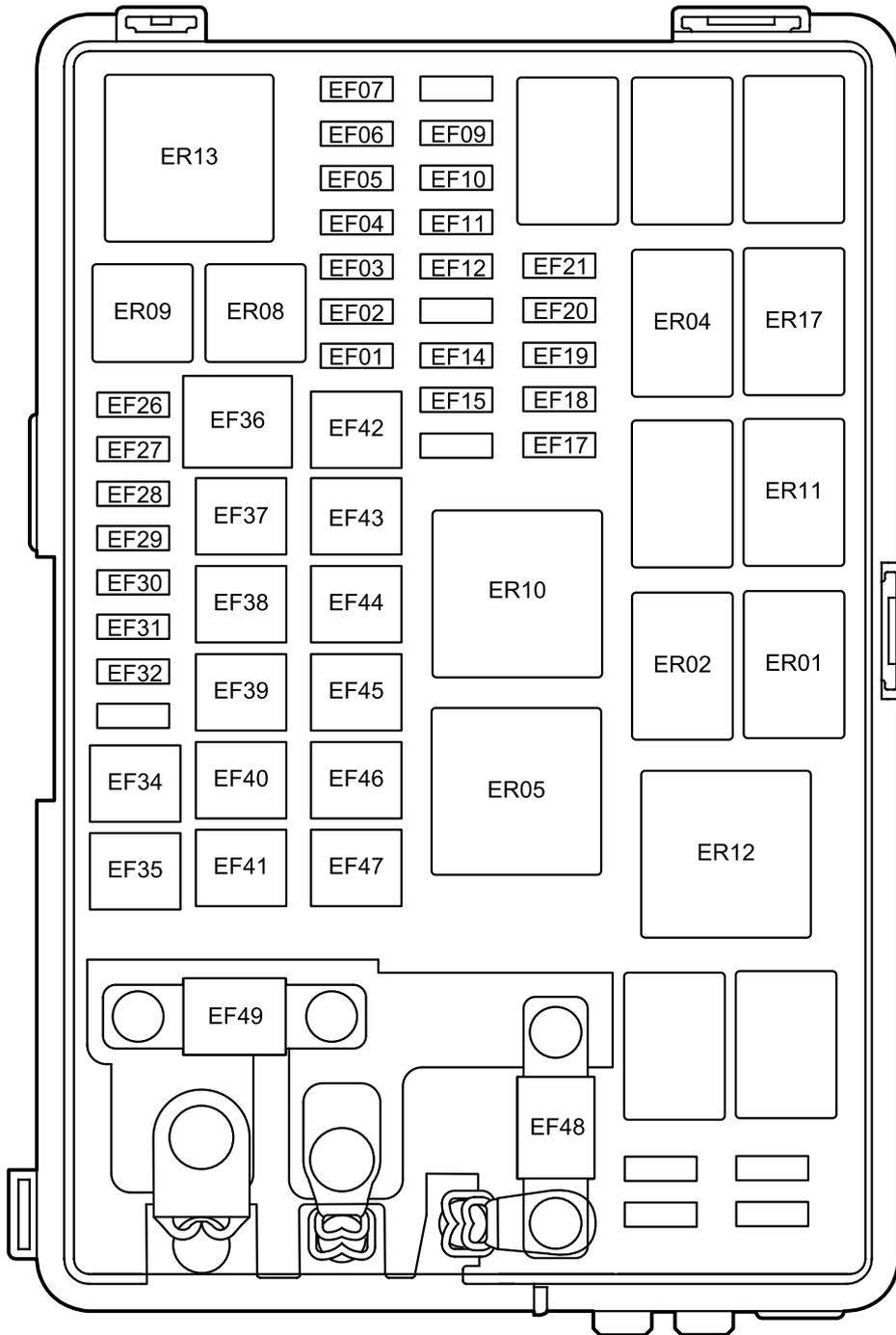
Try not to damage the car paint, only remove oxide or rusty surface.



## Abbreviation

Acronym	Description
ABS	Anti-lock braking system module
ACU	Supplementary restraint system.
A/C	A/C control module
ALT	Alternator
AVM	Panoramic image control module
BCM	Body control module
BMS	Battery management system
CAN	Vehicle bus communications network
ECM	Engine control module (ECM)
E-CALL	Emergency call system
ESC	Electronic Stability Control System
ESCL	Electronic steering column lock control unit
ETC	Electronic Non-parking Charging System
EPB	Electronic parking brake (EPB) system
EPS	Electric power steering system
HCO	Hydraulic battery cooling system
HCU	Hybrid control unit
HUD	Heads up display (HUD)
IPU	Integrated Power Controller
IMMO	Engine Guard System Control Module
IPK	IP cluster
LDW	Lane departure warning
OBD	Fault Diagnosis Interface
ODP	High and Low Voltage Charging System
PEPS	Keyless entry and keyless start
PEU	Electric motor controller
PTC	Heater
PTG	Power backdoor
SRS	Supplementary restraint system.
4WD	Four-wheel Driving System
TCU	Transmission Controller
TPMS	Tire Pressure Monitoring System
T-BOX	Telematics BOX
VCU	Vehicle control unit

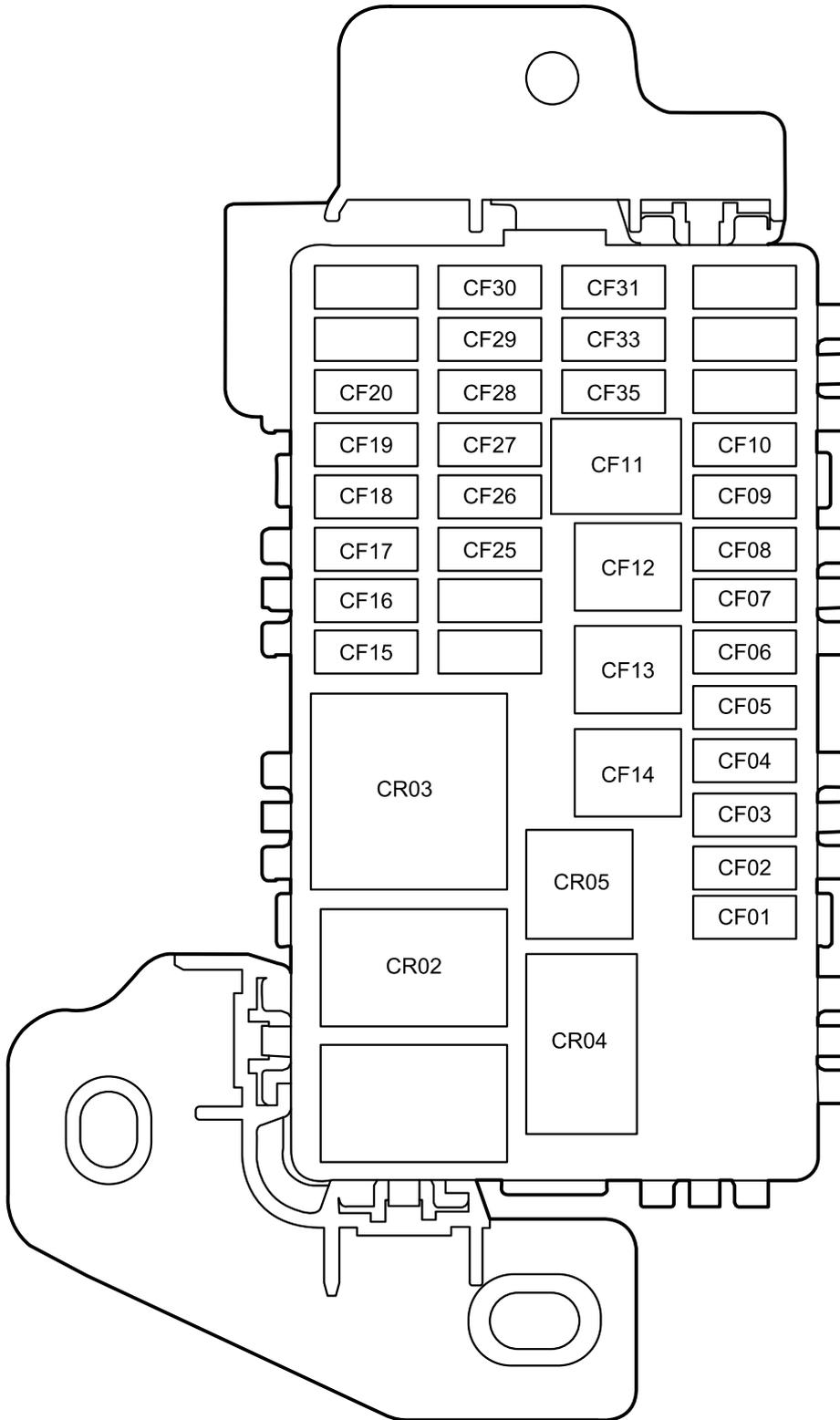
Information of front engine compartment fuse and relay box



No.	Name	Specification	Description
EF01	Brake lamp switch fuse	7.5A	-
EF02	Finished Automobile Controller Fuse	10A	-
EF03	Integrated Power Controller Fuse	15A	-
EF04	Battery Management System /Charger Fuse	15A	Battery Management System, High and Low Voltage Charging System
EF05	Turn lamp signal fuse	30A	BCM
EF06	Turn lamp power supply fuse	10A	Front headlamps
EF07	Horn fuse	15A	BCM, Clock Spring, Horn
EF09	PWM Fan Relay Feedback Fuse	10A	Cooling Fan, VCU
EF10	Cooling Water Pump Relay Feedback Fuse	7.5A	VCU
EF11	High Speed Fan Relay Feedback Fuse	5A	-
EF12	Low Speed Fan Relay Feedback Fuse	5A	-
EF14	Fan, Cooling Water Pump Relay Fuse	10A	VCU
EF15	Finished Automobile Controller Fuse	20A	-
EF17	Electronic Stability Control Unit/ Finished Automobile Controller Fuse	7.5A	-
EF18	Integrated Power Controller Fuse	7.5A	Integrated Power Controller, High and Low Voltage Charging System
EF19	Smart Booster/ Braking Lamp Switch Fuse	10A	-
EF20	Low Speed Alarmer/ Millimeter Wave Radar Fuse	7.5A	-
EF21	Rear view mirror heating fuse	10A	-
EF26	A/C relay fuse	15A	Heat Management Control Module, PTC Heating Controller, Heating Water Pump, Battery Cooling Water Pump, Electronic Expansion Valve 1, Heat Exchanger Solenoid Valve 1, Three-way Solenoid Valve A, Four-way Valve, Solenoid Water Valve
EF27	Air-inlet Grating Fuse	7.5A	-
EF28	Front wiper fuse	30A	BCM and front wiper motor
EF29	Compressor fuse	7.5A	-
EF30	Charging Indicator Lamp Fuse	5A	-
EF31	Refrigeration Water Pump Fuse	15A	VCU, Cooling Water Pump Relay
EF32	Power Amplifier Fuse	30A	-

No.	Name	Specification	Description
EF34	Rear defroster fuse	25A	BCM, Rear Defroster, Driver Side External Rearview Mirror, Front Passenger Side External Rearview Mirror
EF35	PWM Fan/ Low Speed Fan Fuse	30A	Cooling Fan, VCU
EF36	Smart Booster Fuse	60A	-
EF37	Passenger Seat Fuse	25A	-
EF38	Blower fuse	40A	Air Blower, Heat Management Control Module
EF39	Instrument box IG2 fuse	25A	-
EF40	Driver Seat Fuse	25A	Seat Module, Driver Seat Adjusting Switch, Driver Seat Heating Module
EF41	Left Window Fuse	25A	-
EF42	Instrument box B+ fuse	60A	-
EF43	Left power supply fuse for electronic parking	30A	-
EF44	Electronic Parking Right Power Supply Fuse (Overseas Vehicle Type)	30A	-
EF44	High-speed fan fuse	40A	-
EF45	Electronic Stability Control Unit Motor Fuse	60A	-
EF46	Electronic Stability Control Unit Fuse	40A	-
EF47	Fuse for instrument box	50A	-
EF48	Electric Power Steering (EPS) fuse	80A	-
EF49	Charger Fuse	150A	-
ER01	Low-speed wiper relay	-	-
ER02	High-speed wiper relay	-	-
ER04	A/C main relay	-	-
ER05	Main relay	-	-
ER08	Horn relay	-	-
ER09	PWM Fan Relay	-	-
ER10	Blower relay	-	-
ER11	Rear defroster relay	-	-
ER12	Low-speed fan relay	-	-
ER13	High-speed fan relay	-	-
ER17	Cooling Water Pump Relay	-	-

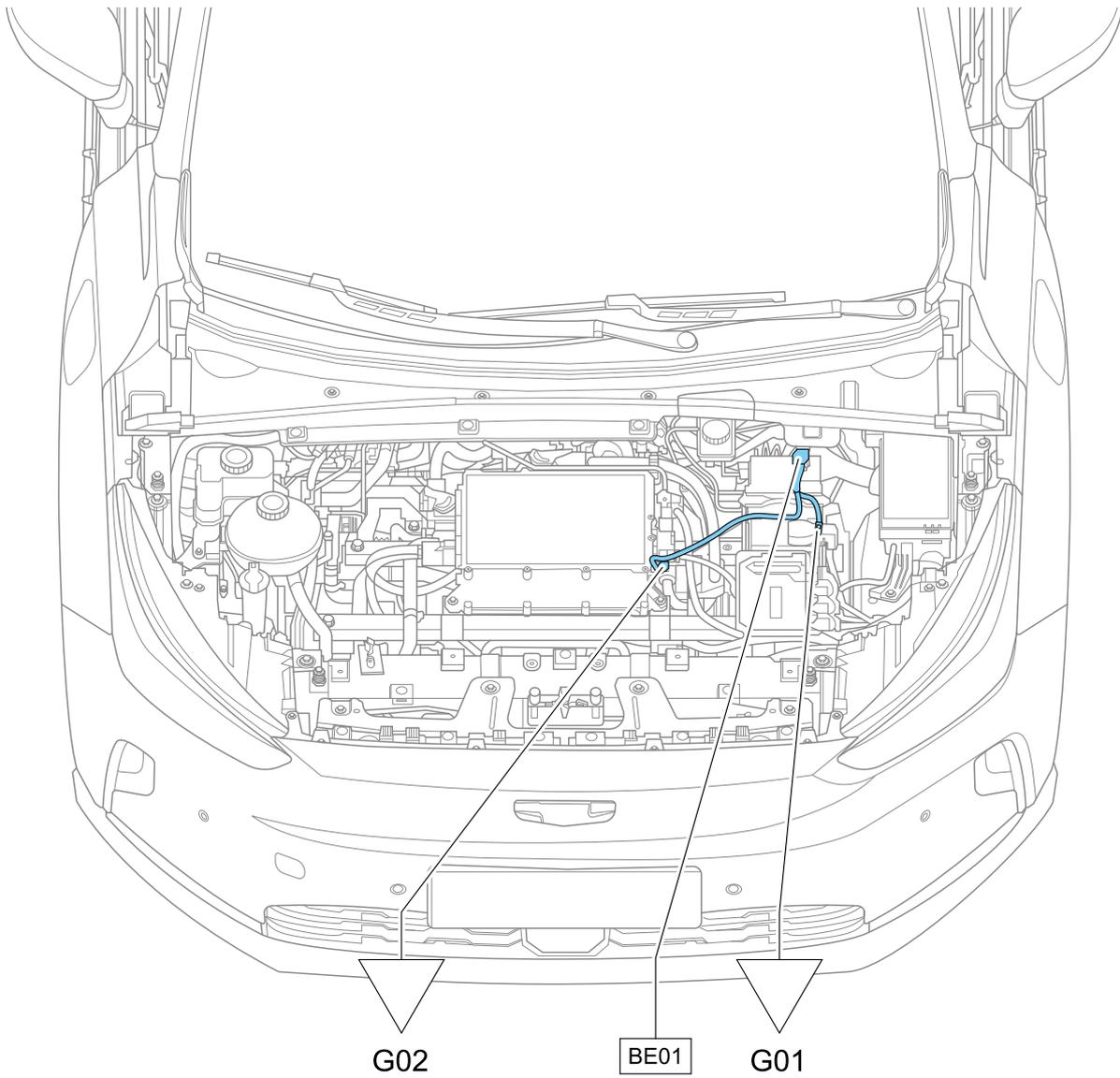
Information of indoor fuse and relay box



No.	Name	Specification	Description
CF01	External lamp power 1 supply fuse	30A	BCM
CF02	External lamp power 2 supply fuse	30A	BCM
CF03	DLC fuse	10A	-
CF04	Central Controller Fuse	30A	-
CF05	Door lock fuse	30A	BCM
CF06	Head-up Display Screen/360 Control Module/ RF Receiver/ Monocular Camera/ Electrocar Communication Control Module Fuse	10A	Front Monocular Camera, Automatic Parking Module, Head-up Display, RF Receiving Module, Electrocar Communication Control Module
CF07	Rearview Mirror Switch/ Electronic Shifter/Wireless Charging/ Auxiliary Dashboard Switch Group/ A/C Panel Fuse	10A	Wireless Charger Module, EPB Switch, Auxiliary Dashboard Switch Group, Electronic Shifter, automatic A/C Control Panel, Left Front Door Concealed Door Handle, External Rearview Mirror Adjusting Switch
CF08	Gateway fuse	5A	-
CF09	Multimedia screen fuse	10A	-
CF10	Electronic steering column lock fuse	15A	-
CF11	Marine fuse	25A	Audio host, E-CALL, thermal management control module, combined instrument controller, driver's side atmosphere light, center console left side atmosphere light, auxiliary instrument switch group, front passenger side atmosphere light, driver side door atmosphere light, left rear door Ambient light, front passenger side door ambient light, right rear door ambient light
CF12	Door Handle Control Module Fuse	20A	-
CF13	Sunroof/Sunshade Fuse	20A	-
CF14	Right Window Fuse	25A	-
CF15	Battery Management System/ BCM IG2Fuse	10A	-
CF16	Rear wiper fuse	15A	Rear Wiper Motor, BCM
CF17	Washer motor fuse	15A	BCM
CF18	Backup power fuse	20A	-
CF19	BCM/Automatic Parking Module /Rear Row USB Fuse	10A	-

No.	Name	Specification	Description
CF20	Automobile Data Recorder/ Multi-media Entertainment Master/ Anti-dazzling Internal Rearview Mirror Fuse	10A	-
CF25	Sunroof/ Sun Louver/ Seat Memory Module/ Electrocar Communication Control Module IG1Fuse	10A	-
CF26	BCM/ Gateway/ E-CALL IG1Fuse	10A	-
CF27	IG1 fuse for fuse box of front engine compartment	15A	-
CF28	Corner Sensor/ Electric Power-assisted Steering/ Electronic Shifter/ Electronic Steering Column Lock IG1Fuse	10A	Steering Angle Sensor, EPS, Electronic Shifter, Electronic Steering Column Lock, Auxiliary Dashboard Switch Group
CF29	Airbag fuse	10A	-
CF30	Instrument Cluster/ PM2.5/ Heat Management Controller/AQS Fuse	10A	PM2.5Sensor, Combined Instrument Controller, Heat Management Control Module, AQS, Ionizer, EPB
CF31	Atmosphere Lamp Fuse	5A	Atmosphere Lamp, Auxiliary Dashboard Switch Group
CF33	Heat Management Controller/Instrument Cluster/ E-CALL Fuse	10A	-
CF35	Multi-media Entertainment Master Fuse	15A	-
CR02	IG1 relay	-	-
CR03	ACC relay	-	-
CR04	IG2 relay	-	-
CR05	Rear wiper relay	-	-

**Negative Battery Harness Arrangement Diagram**



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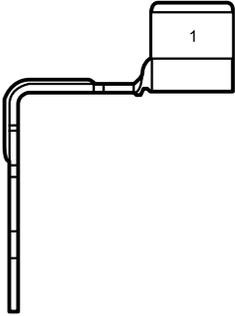
**Battery Negative Harness Connector List**

Harness connector	Name	Harness connector	Name
BE01	Battery terminal negative harness connector	-	-

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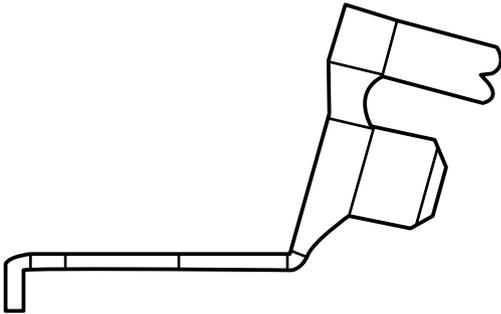
## Battery Negative Harness Terminal Definition

BE01 Battery terminal negative harness connector



Pin-ning	Functions	Note
1	Ground connection	-

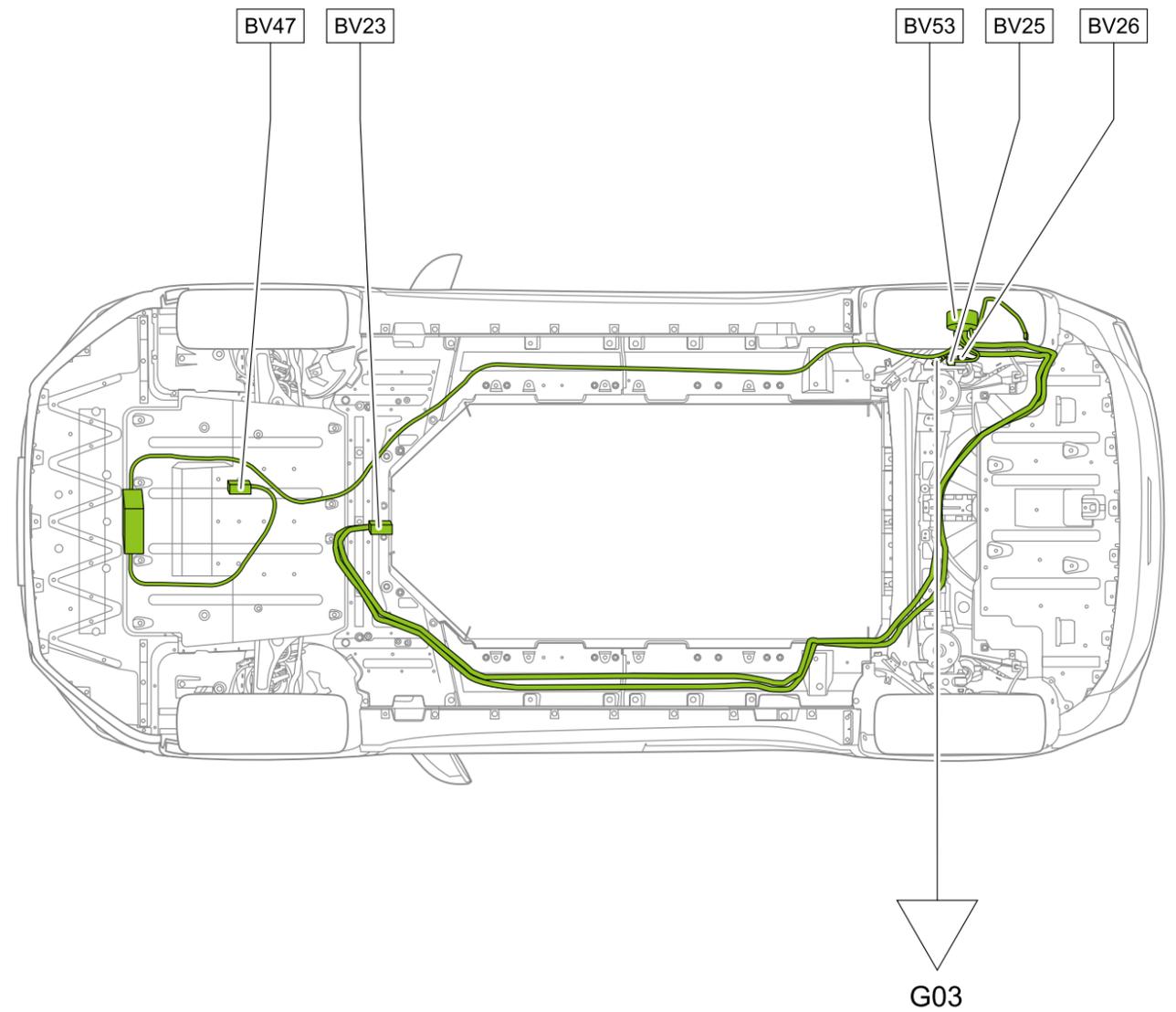
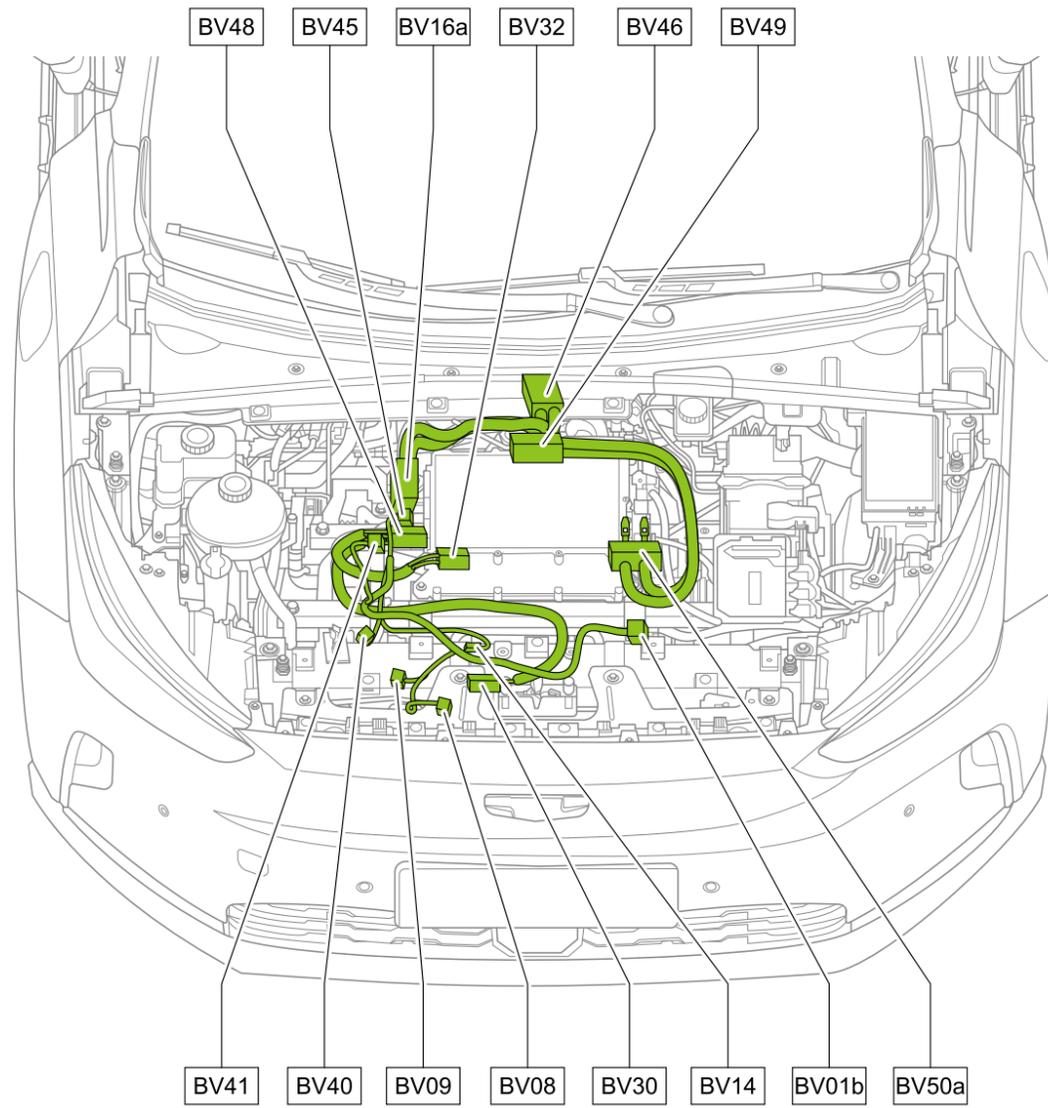
G01



G02



Power Harness Arrangement Diagram

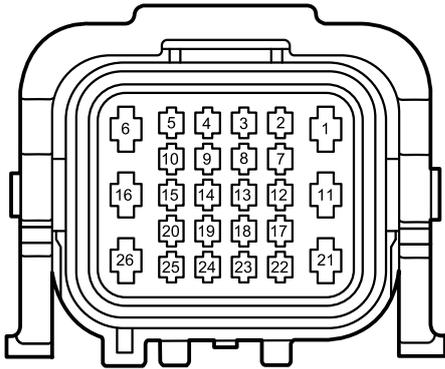


**Power Harness Connector List**

Harness connector	Name	Harness connector	Name
BV01b	Power Harness Connected to Engine Room Harness Connector	BV40	Heating Water Pump Harness Connector
BV08	A/C compressor harness connector	BV41	Power Harness Connected to PTC Harness Connector
BV09	Motor Water Pump Harness Connector	BV45	Integrated Power Controller Harness Connector 1
BV14	Battery Cooling Water Pump Harness Connector	BV46	High and Low Voltage Charging System Harness Connector 1
BV16a	Connect Power Battery Harness Connector 1	BV47	High and Low Voltage Charging System Harness Connector 2
BV23	Connect Power Battery Harness Connector 2	BV48	High and Low Voltage Charging System Harness Connector 5
BV25	Connect Low Voltage Harness Connector 1	BV49	High and Low Voltage Charging System Harness Connector 6
BV26	Connect Low Voltage Harness Connector 2	BV50a	Integrated Power Controller Harness Connector 2
BV30	Connect Electric Compressor Harness Connector 1	BV53	Charging Socket Harness Connector
BV32	Connecting PTC Heating Controller Harness Connector 1	-	-

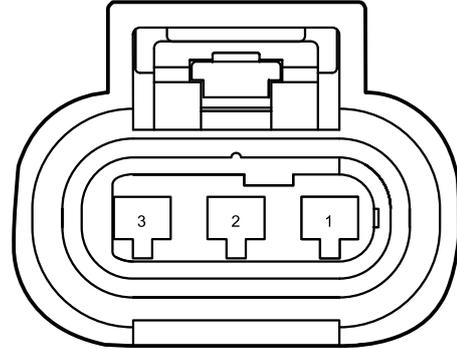
### Power Harness Terminal Definition

BV01b Power Harness- Cabin Harness Connector

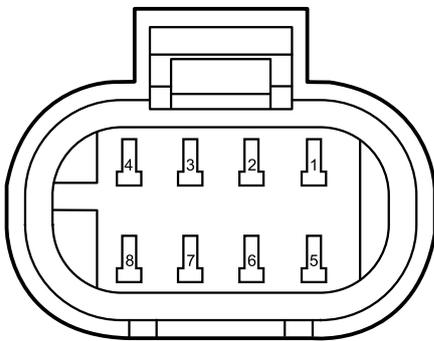


Pin-ning	Functions	Note
1	Ground connection	-
2	Control signal	-
3	Power supply	-

BV14 Battery Cooling Water Pump Harness Connector



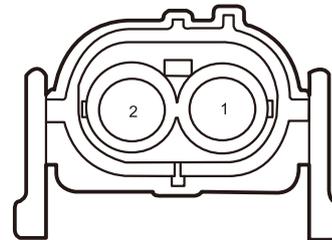
BV08 A/C compressor harness connector



Pin-ning	Functions	Note
1	Ground connection	-
2	Control signal	-
3	Power supply	-

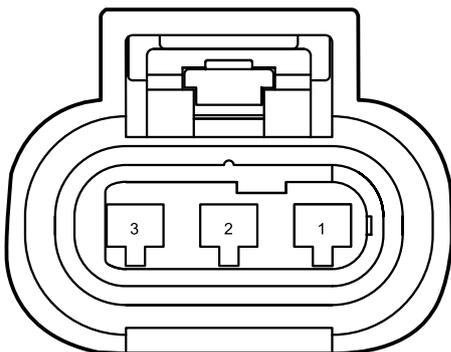
Pin-ning	Functions	Note
1	ALT power supply	-
2	LIN	-
3	Ground connection	-
4	-	-
5	-	-
6	High Voltage Interlocking Input Signal	-
7	High Voltage Interlocking Output Signal	-
8	-	-

BV16a Power Battery Harness Connector 1

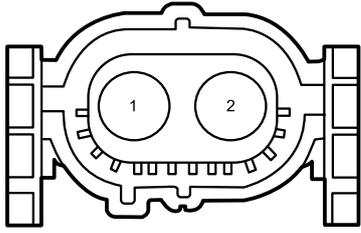


Pin-ning	Functions	Note
1	Battery Negative	-
2	Battery Positive	-

BV09 Motor Water Pump Harness Connector

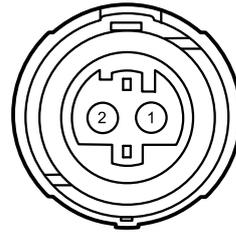


BV23- Power Battery Harness Connector 2



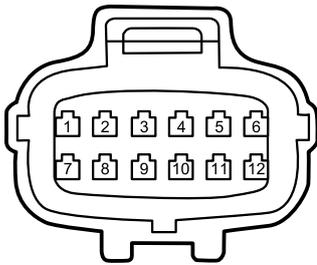
Pin-ning	Functions	Note
1	Battery Negative	-
2	Battery Positive	-

BV25- Low Voltage Harness Connector 1

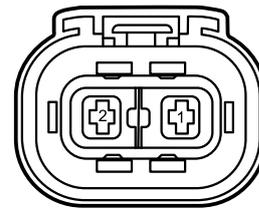


Pin-ning	Functions	Note
1	Compressor Positive	-
2	Compressor Negative	-

BV32- PTC Heating Controller Harness Connector 1

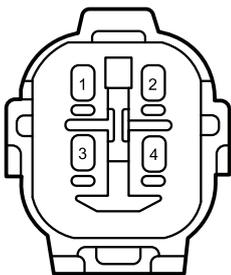


BV26- Low Voltage Harness Connector 2

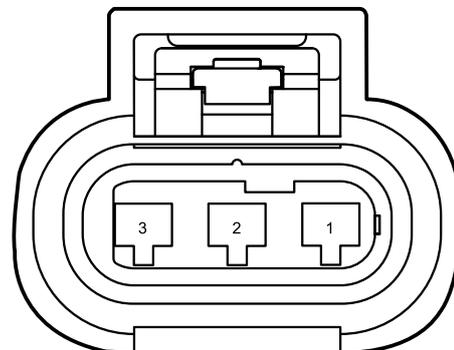


Pin-ning	Functions	Note
1	Heater Positive	-
2	Heater Negative	-

BV40 Heating Water Pump Harness Connector

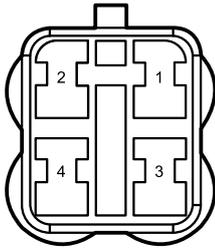


BV30- Motor Compressor Harness Connector 1

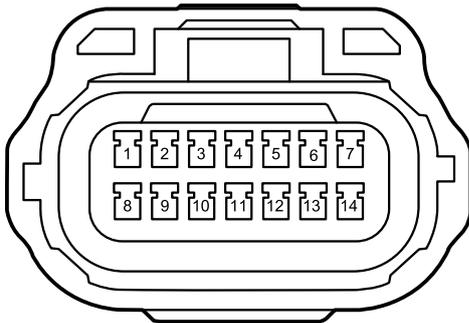


Pin-ning	Functions	Note
1	Ground connection	-
2	Control signal	-
3	Power supply	-

BV41 Power Harness- PTC Harness Connector

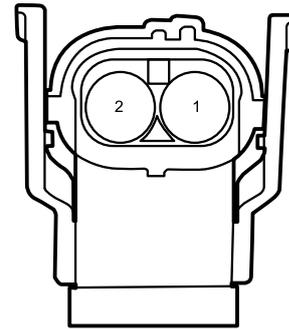


BV45 Integrated Power Controller Harness Connector 1



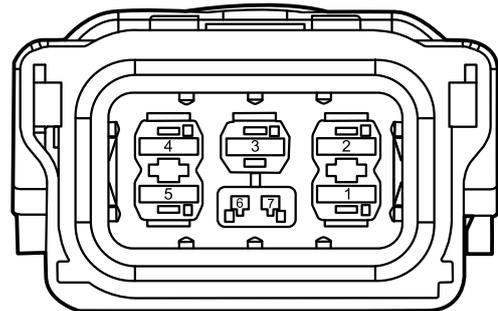
Pin-ning	Functions	Note
1	B+ power supply	-
2	Ground connection	-
3	-	-
4	-	-
5	B+ power supply	-
6	Private CAN-H	-
7	HB CAN-H	-
8	B+ power supply	-
9	Ground connection	-
10	-	-
11	IG1 power supply	-
12	Ground connection	-
13	Private CAN-L	-
14	HB CAN-L	-

BV46 High and Low Voltage Charging System Harness Connector 1



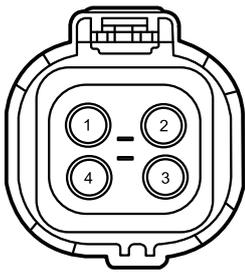
Pin-ning	Functions	Note
1	Power Battery Negative	-
2	Power Battery Positive	-

BV47 High and Low Voltage Charging System Harness Connector 2



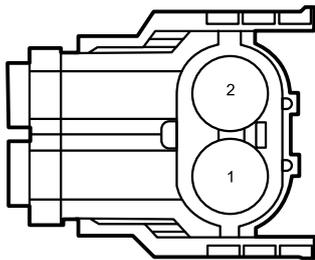
Pin-ning	Functions	Note
1	AC Charging Firing Line L1	-
2	AC Charging Firing Line L2	-
3	-	-
4	AC Charging Firing Line L3	-
5	AC Charging Null Line N	-
6	-	-
7	-	-

BV48 High and Low Voltage Charging System Harness Connector 5



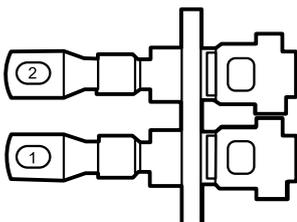
Pin-ning	Functions	Note
1	PTC Heater Negative	-
2	PTC Heater Positive	-
3	Motor Compressor Positive	-
4	Motor Compressor Negative	-

BV49 High and Low Voltage Charging System Harness Connector 6



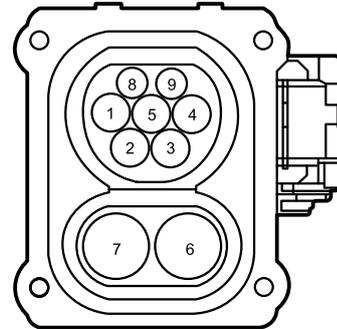
Pin-ning	Functions	Note
1	Integrated Power Controller Negative	-
2	Integrated Power Controller Positive	-

BV50a Integrated Power Controller Harness Connector 2



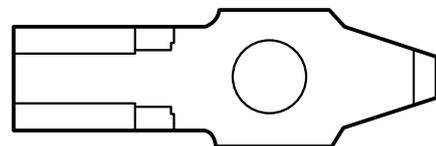
Pin-ning	Functions	Note
1	Integrated Power Controller Negative	-
2	Integrated Power Controller Positive	-

BV53 Charging Socket Harness Connector

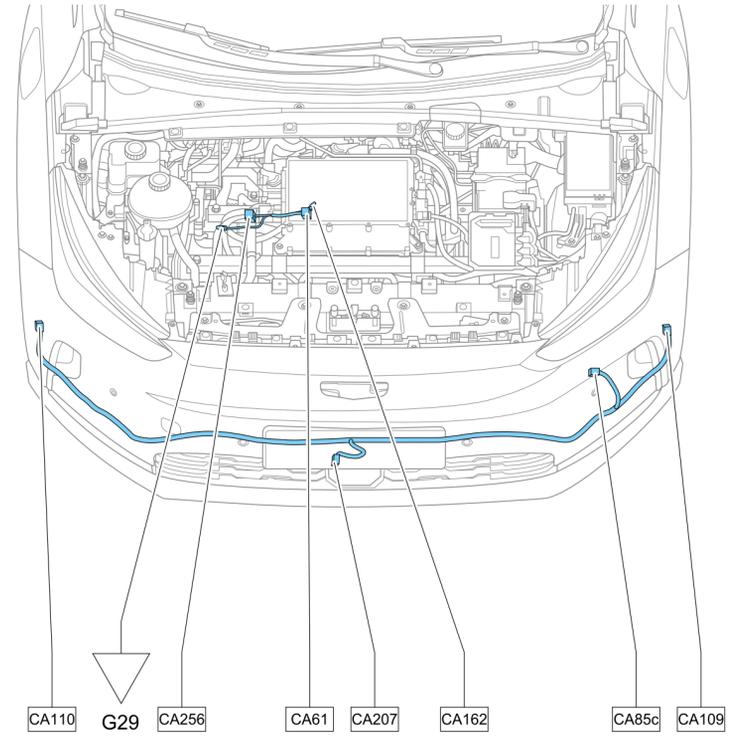
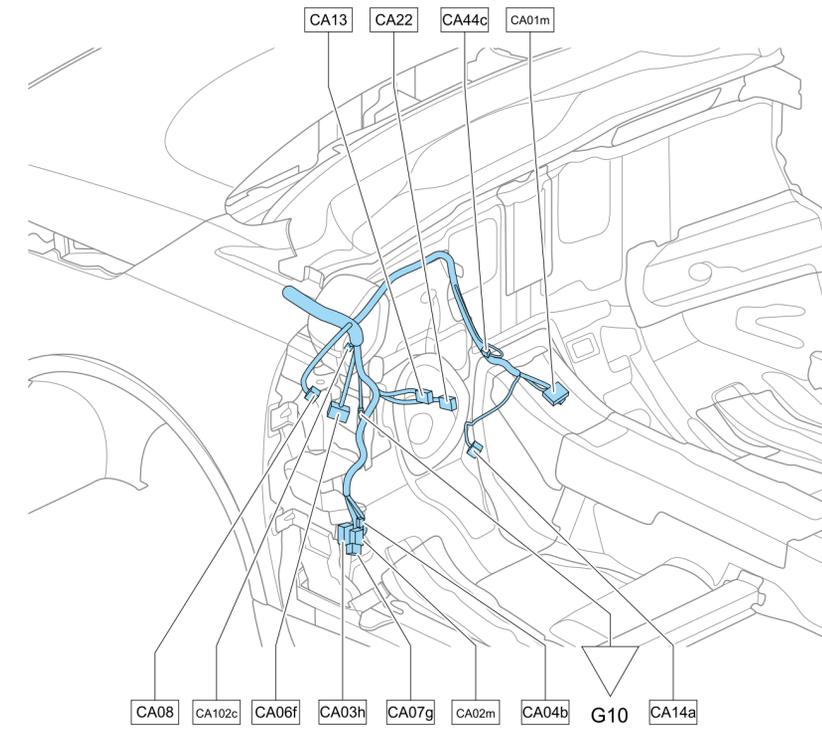
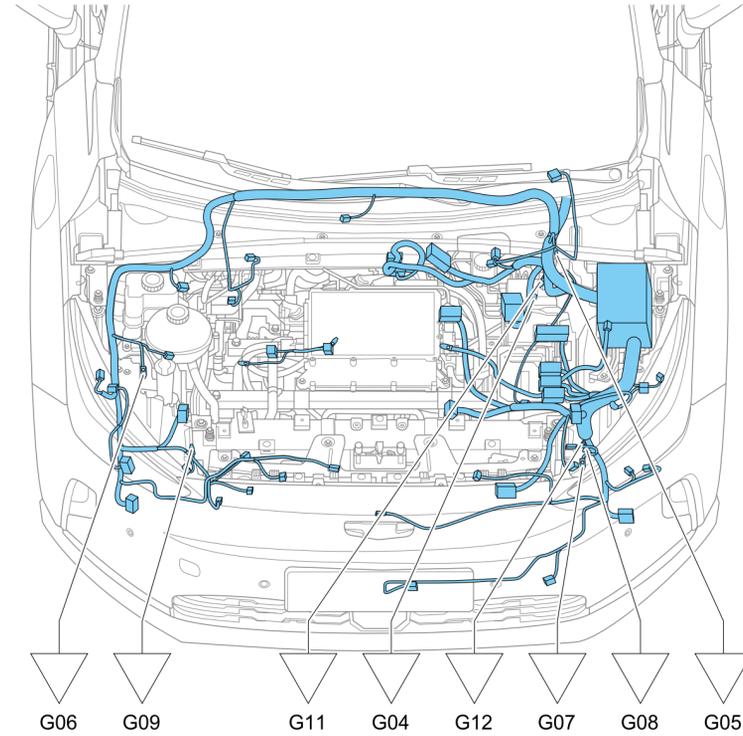
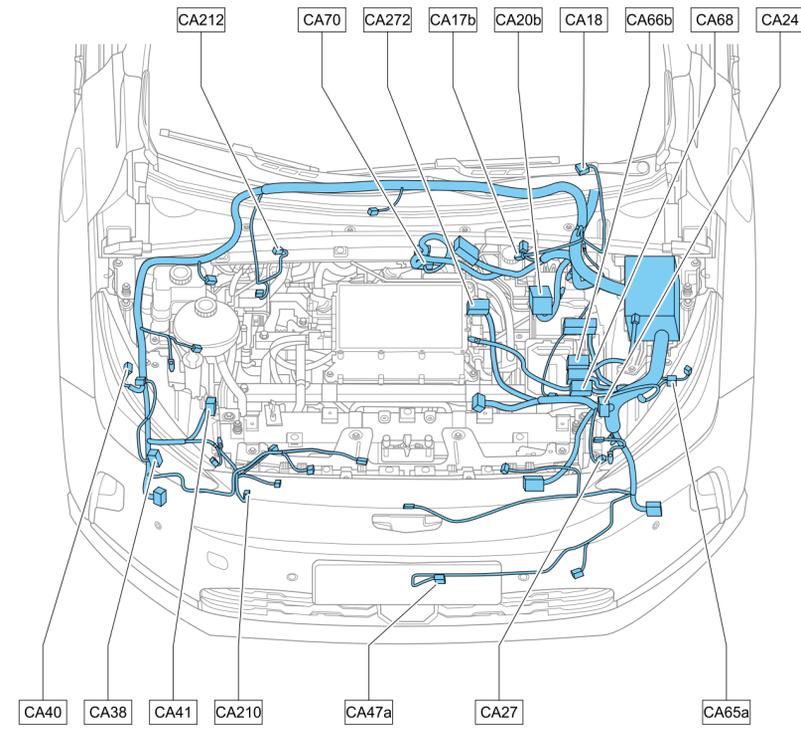
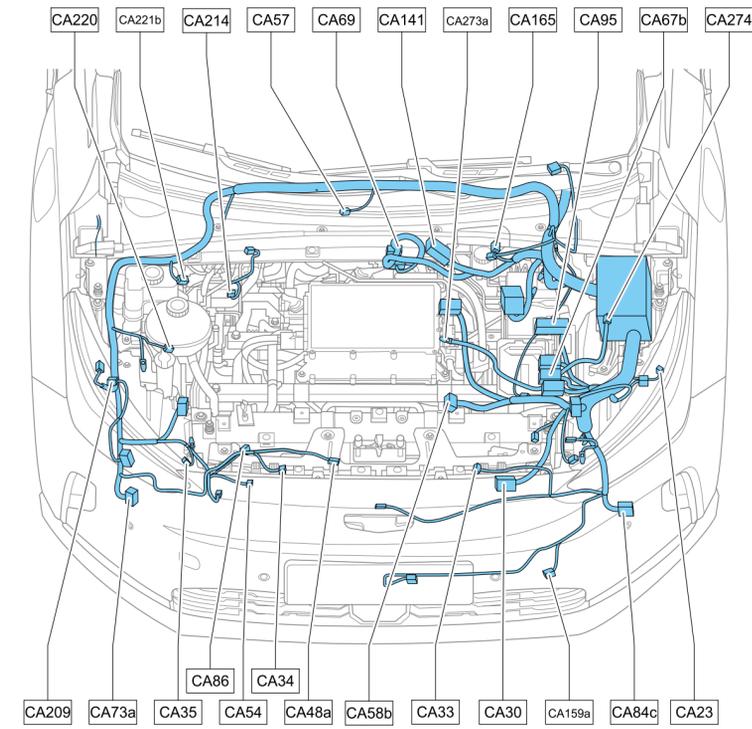


Pin-ning	Functions	Note
1	AC Charging Firing Line L1	-
2	AC Charging Firing Line L2	-
3	AC Charging Firing Line L3	-
4	AC Charging Null Line N	-
5	Ground connection	-
6	DC Charging Positive Pole	-
7	DC Charging Negative Pole	-
8	Charging Socket PP Signal	-
9	Charging Socket CP Signal	-

G03



Front Engine Compartment Harness Layout Drawing



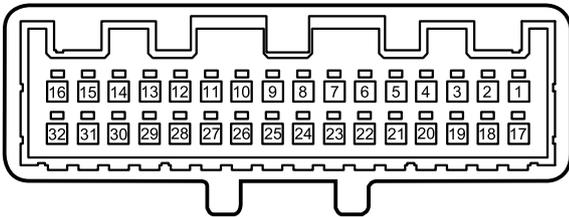
### Front Engine Compartment Harness Connector List

Harness connector	Name	Harness connector	Name
CA01m	Engine compartment harness connects to instrument harness connector 2	CA65a	Left AC Charging Indicator Lamp Harness Connector
CA02m	Engine compartment harness connects to instrument harness connector 1	CA66b	Harness connector A of VCU module
CA03h	Engine compartment harness connects to instrument harness connector 3	CA67b	Harness connector B of VCU module
CA04b	Engine compartment harness connects to instrument harness connector 4	CA68	Harness connector C of VCU module
CA06f	Engine compartment harness connects to base plate harness connector 1	CA69	Harness connector A of BMS module
CA07g	Engine compartment harness connects to base plate harness connector 2	CA70	Harness connector B of BMS module
CA08	Engine compartment harness connects to base plate harness connector 3	CA73a	Low Speed Alarm Controller Harness Connector
CA13	Engine compartment harness connects to instrument fuse box power supply harness connector	CA84c	Engine compartment harness connects to front fuse harness connector
CA14a	Electronic accelerator pedal harness connector	CA85c	Front fuse harness connects to engine compartment harness connector
CA17b	Brake liquid level sensor harness connector	CA86	A/C pressure sensor harness connector
CA18	Front wiper motor harness connector	CA95	Positive terminal harness connector of battery
CA20b	ESC harness connector	CA102c	JC11 harness connector
CA22	EPS power supply harness connector	CA109	Left Front Dead Zone Probe Harness Connector
CA23	Left front wheel speed sensor harness connector	CA110	Right Front Dead Zone Probe Harness Connector
CA24	Left front headlamp harness connector	CA141	Smart Booster Harness Connector
CA27	FL frontal impact sensor harness connector	CA159a	Intelligent Changeable Air-inlet Grating Motor Harness Connector
CA30	Cooling fan harness connector	CA162	Connecting PTC Heating Controller Harness Connector 3
CA33	Left horn harness connector	CA165	Displacement sensor harness connector
CA34	Right horn harness connector	CA207	Millimeter Wave Radar Probe Harness Connector
CA35	FR frontal impact sensor harness connector	CA209	Right AC Charging Indicator Lamp Harness Connector
CA38	Front washer motor harness connector	CA210	Four-way Valve Harness Connector
CA40	Right front wheel speed sensor harness connector	CA212	Electronic Expansion Valve Harness Connector 1
CA41	Right front headlamp harness connector	CA214	Solenoid harness connector

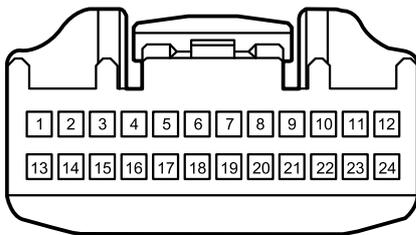
Harness connector	Name	Harness connector	Name
CA44c	Brake lamp switch harness connector	CA220	A/C low pressure sensor harness connector
CA47a	Outdoor temperature sensor harness connector	CA221b	Refrigerant temperature sensor harness connector
CA48a	Front Hatch Cover Contact Switch Harness Connector	CA256	PTC Harness -Power Harness Connector
CA54	Three-way Solenoid Valve Harness Connector A	CA272	High and Low Voltage Charging System Harness Connector 3
CA57	Heat Exchanger Solenoid Valve Harness Connector	CA273a	High and Low Voltage Charging System Harness Connector 4
CA58b	Engine compartment harness connects to power line harness connector	CA274	DC/DC battery charger terminal harness connector
CA61	Connect PTC Heating Controller Harness Connector 2	-	-

## Front Engine Compartment Harness Terminal Definition

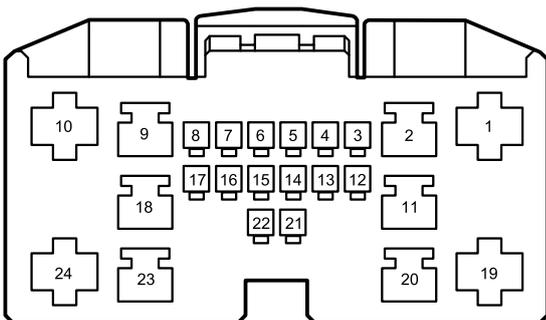
CA01m Engine compartment harness connects to instrument harness connector 2



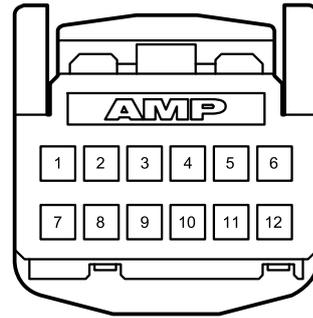
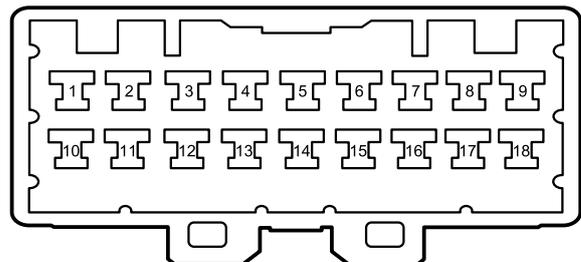
CA02m Engine compartment harness connects to instrument harness connector 1



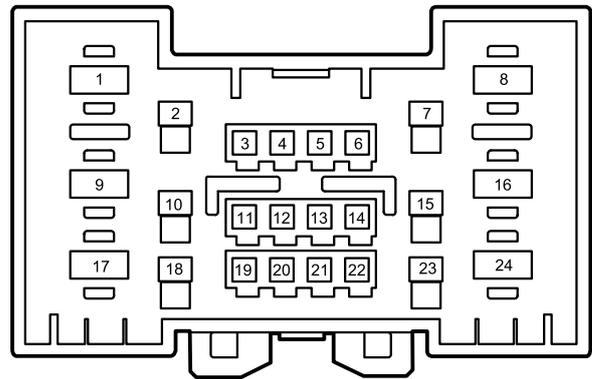
CA03h Engine compartment harness connects to instrument harness connector 3



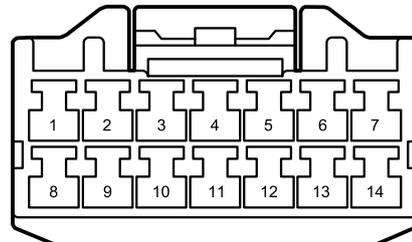
CA04b Engine compartment harness connects to instrument harness connector 4



CA06f Engine compartment harness connects to base plate harness connector 1

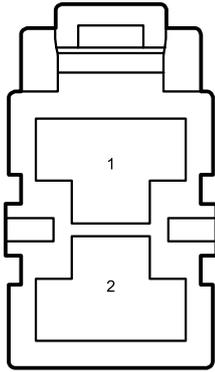


CA07g Engine compartment harness connects to base plate harness connector 2

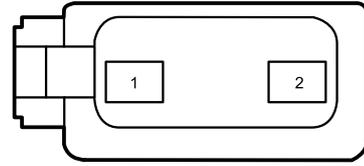


CA08 Engine compartment harness connects to base plate harness connector 3

CA13 Engine compartment harness connects to instrument fuse box power supply harness connector



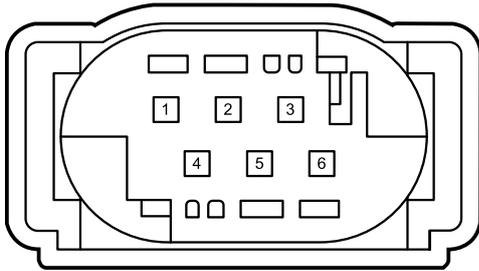
Pin-ning	Functions	Note
1	B+ power supply	-
2	B+ power supply	-



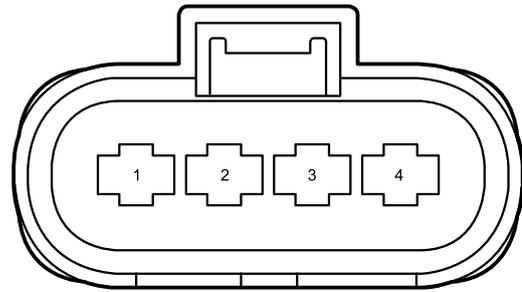
Pin-ning	Functions	Note
1	Signal	-
2	Ground connection	-

CA18 front wiper motor harness connector

CA14a Electronic accelerator pedal harness connector



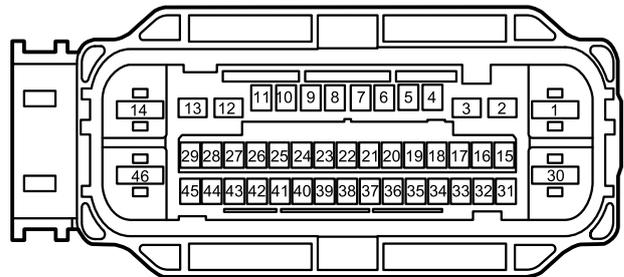
Pin-ning	Functions	Note
1	Position sensor signal 2	-
2	Position sensor signal 1	-
3	5V power supply 1	-
4	Grounding 2	-
5	Grounding 1	-
6	5V power supply 2	-



Pin-ning	Functions	Note
1	Ground connection	-
2	Reset	-
3	Low Gear	-
4	High Gear	-

CA20b ESC harness connector

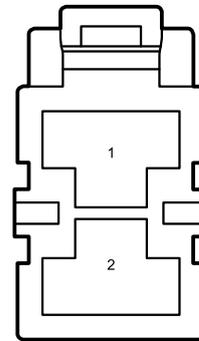
CA17b Brake liquid level sensor harness connector



Pin-ning	Functions	Note
1	B+ power supply	-
2	-	-
3	-	-
4	-	-
5	CS CAN-H	-
6	-	-
7	FL speed sensor negative	-
8	Auto Hold working indicator negative terminal input signal	-
9	Speed signal	-
10	Steep descent slow descent switch signal	-
11	Private CAN-H	-
12	-	-
13	-	-
14	Ground connection	-
15	-	-
16	-	-
17	Steep descent slow descent switch signal input	-
18	ESC OFF switch indicator	-
19	CS CAN-L	-
20	-	-
21	FR speed sensor positive	-
22	RR speed sensor positive	-
23	RL speed sensor negative	-
24	FL speed sensor positive	-
25	Private CAN-L	-
26	FR speed sensor negative	-
27	-	-
28	-	-
29	-	-
30	B+ power supply	-
31	-	-
32	-	-
33	-	-
34	-	-
35	-	-
36	IG1 power supply	-
37	RR speed sensor negative	-

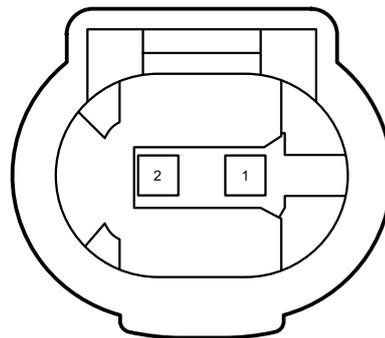
Pin-ning	Functions	Note
38	Brake lamp switch signal	-
39	RL speed sensor positive	-
40	-	-
41	Auto Hold switch signal	-
42	-	-
43	ESC OFF Switch	-
44	-	-
45	-	-
46	Ground connection	-

CA22 EPS power supply harness connector



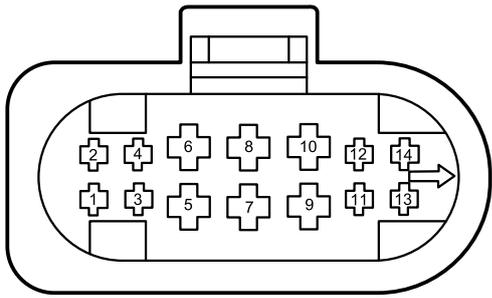
Pin-ning	Functions	Note
1	B+ power supply	-
2	Ground connection	-

CA23 left front wheel speed sensor harness connector



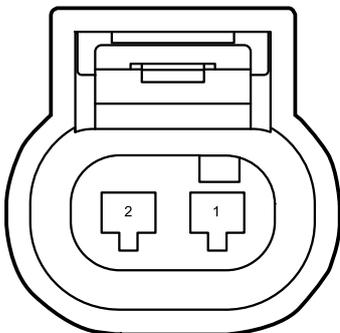
Pin-ning	Functions	Note
1	Signal negative	-
2	Signal positive	-

CA24 FL headlamp harness connector



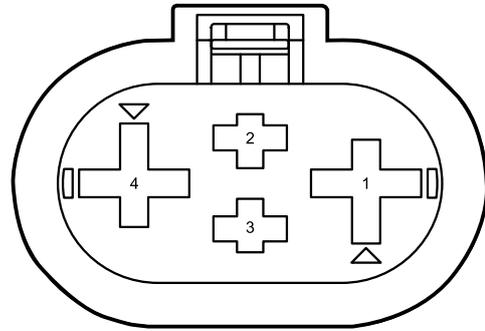
Pin-ning	Functions	Note
1	Headlight height adjustment power supply	-
2	Headlight height adjustment grounding	-
3	Headlight height adjustment signal	-
4	High beam lamps power supply	-
5	Low Beam Lamp, High Beam Lamp Grounding	-
6	Low beam lamps power supply	-
7	Position Lamp, Steering Lamp, Daytime Running Lamp Grounding	-
8	Turn signal power supply	-
9	Daytime running lamps power supply	-
10	Position lamp power supply	-
11	Turn lighting signal	-
12	Steering Lamp Diagnosis Signal	-
13	Guest Receiving Signal	-
14	Turn lighting dynamic lighting signal	-

CA27 FL frontal impact sensor harness connector



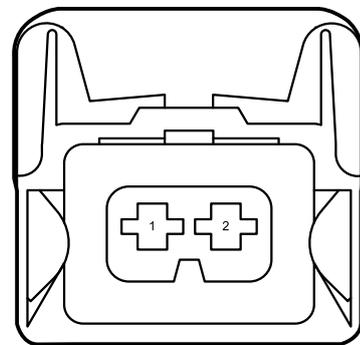
Pin-ning	Functions	Note
1	Signal positive	-
2	Signal negative	-

CA30 Cooling fan harness connector



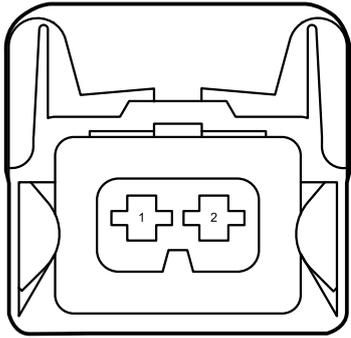
Pin-ning	Functions	Note
1	ALT power supply	-
2	Relay power supply	-
3	Fan control signal	-
4	Ground connection	-

CA33 Left horn harness connector



Pin-ning	Functions	Note
1	Power supply	-
2	Ground connection	-

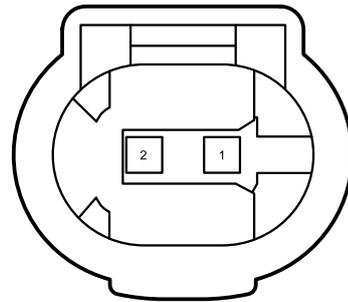
CA34 right horn harness connector



Pin-ning	Functions	Note
1	Rear washer signal input	-
2	Front washer signal input	-
3	-	-

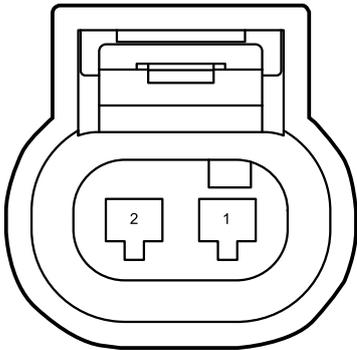
CA40 FR speed sensor harness connector

Pin-ning	Functions	Note
1	Power supply	-
2	Ground connection	-



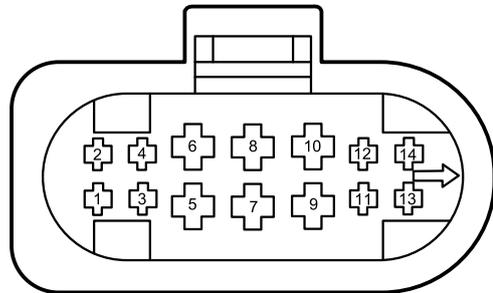
CA35 harness connector of right front impact sensor

Pin-ning	Functions	Note
1	Signal negative	-
2	Signal positive	-



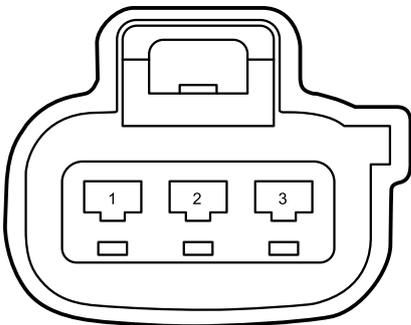
CA41 Right front combination lamp harness connector

Pin-ning	Functions	Note
1	Signal positive	-
2	Signal negative	-



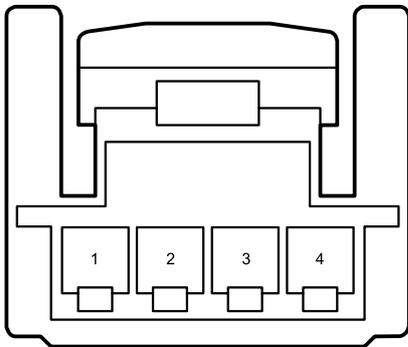
CA38 front washer motor harness connector

Pin-ning	Functions	Note
1	Headlight height adjustment power supply	-
2	Headlight height adjustment grounding	-
3	Headlight height adjustment signal	-
4	High beam lamps power supply	-
5	Low Beam Lamp, High Beam Lamp Grounding	-
6	Low beam lamps power supply	-



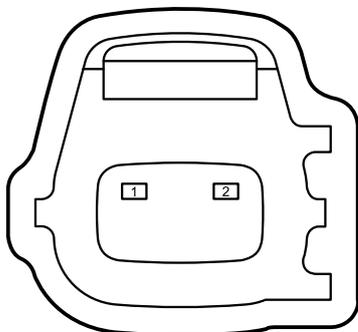
Pin-ning	Functions	Note
7	Position Lamp, Steering Lamp, Daytime Running Lamp Grounding	-
8	Turn signal power supply	-
9	Daytime running lamps power supply	-
10	Position lamp power supply	-
11	Turn lighting signal	-
12	Steering Lamp Diagnosis Signal	-
13	Guest Receiving Signal	-
14	Turn lighting dynamic lighting signal	-

CA44c brake lamp switch harness connector



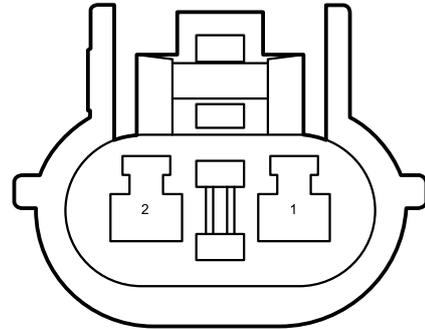
Pin-ning	Functions	Note
1	B+ power supply	-
2	Bake lamp signal	-
3	IG1 power supply	-
4	Brake signal	-

CA47a Outdoor temperature sensor harness connector



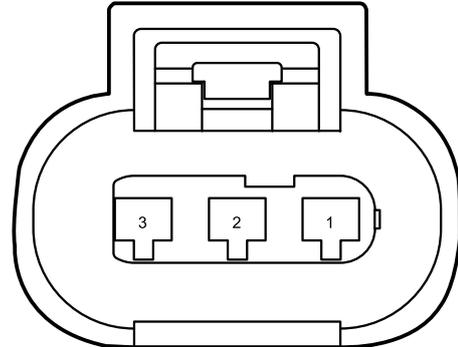
Pin-ning	Functions	Note
1	Signal negative	-
2	Signal positive	-

CA48a Front Hatch Cover Contact Switch Harness Connector



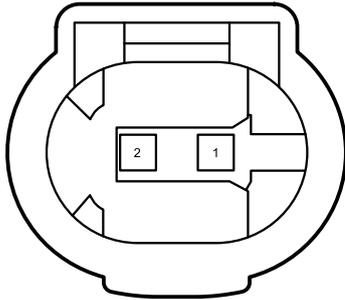
Pin-ning	Functions	Note
1	Ground connection	-
2	Contact switch signal	-

CA54 three-way solenoid valve harness connector



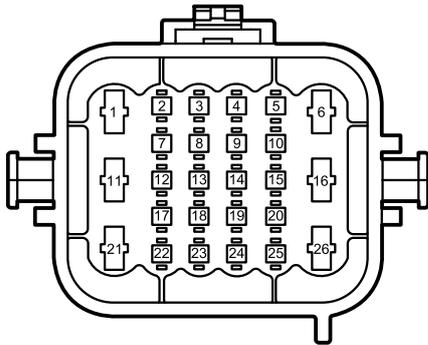
Pin-ning	Functions	Note
1	Ground connection	-
2	LIN	-
3	Power supply	-

CA57 Heat Exchanger Solenoid Valve Harness Connector

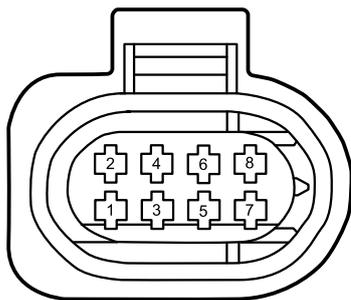


Pin-ning	Functions	Note
1	Solenoid valve negative	-
2	Solenoid valve positive	-

CA58b Engine compartment harness connects to engine harness connector



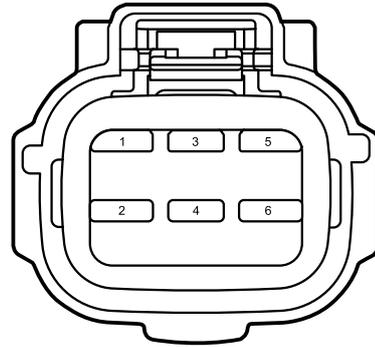
CA61 -PTC Heating Controller Harness Connector 2



Pin-ning	Functions	Note
1	Power supply	-
2	-	-
3	-	-
4	-	-
5	High Voltage Interlocking Input Signal	-
6	LIN	-

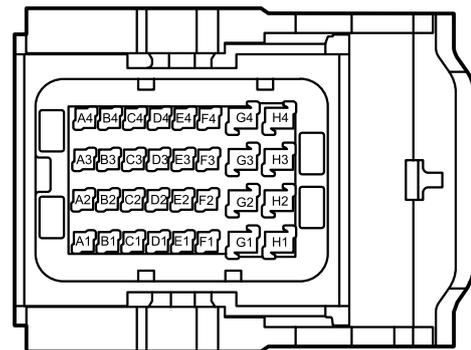
Pin-ning	Functions	Note
7	High Voltage Interlocking Output Signal	-
8	-	-

CA65a Left AC Charging Indicator Lamp Harness Connector



Pin-ning	Functions	Note
1	ALT power supply	-
2	Ground connection	-
3	Driving Signal	-
4	-	-
5	Driving Signal	-
6	Driving Signal	-

CA66b VCU module harness connector A

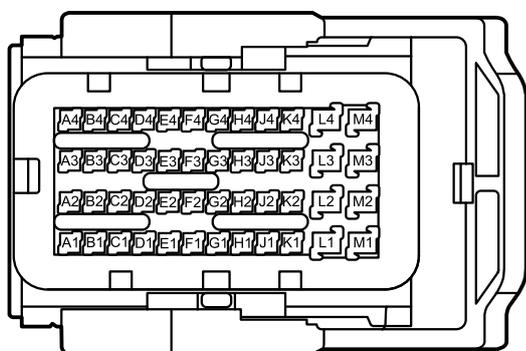


Pin-ning	Functions	Note
A1	-	-
A2	-	-
A3	-	-
A4	-	-
B1	Cooling fan control signal	-
B2	-	-

Pin-ning	Functions	Note
B3	-	-
B4	-	-
C1	-	-
C2	-	-
C3	-	-
C4	-	-
D1	Motor Water Pump Control Signal	-
D2	-	-
D3	-	-
D4	-	-
E1	Cooling Water Pump Relay Control	-
E2	-	-
E3	-	-
E4	-	-
F1	-	-
F2	-	-
F3	-	-
F4	-	-
G1	PWM fan relay control	-
G2	-	-
G3	-	-
G4	Main relay control	-
H1	-	-
H2	-	-
H3	-	-
H4	High Voltage Interlocking Output Signal	-

Pin-ning	Functions	Note
A1	-	-
A2	-	-
A3	-	-
A4	Electric accelerator pedal 5V power supply 2	-
B1	HB CAN-H	-
B2	HB CAN-L	-
B3	-	-
B4	Electric accelerator pedal 5V power supply 1	-
C1	-	-
C2	Electronic accelerator pedal signal output 1	-
C3	Electric accelerator pedal sensor grounding 1	-
C4	-	-
D1	-	-
D2	Electronic accelerator pedal signal output 2	-
D3	Electric accelerator pedal sensor grounding 2	-
D4	-	-
E1	-	-
E2	-	-
E3	-	-
E4	-	-
F1	-	-
F2	-	-
F3	-	-
F4	-	-
G1	-	-
G2	Cooling Fan Feedback Signal	-
G3	-	-
G4	-	-
H1	-	-
H2	-	-
H3	-	-
H4	Brake signal	-
J1	-	-
J2	LIN	-
J3	Brake lamp switch signal	-

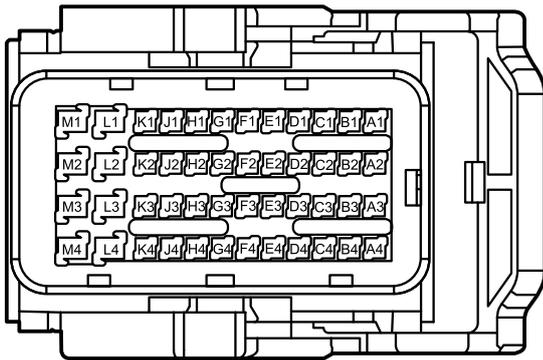
CA67b VCU module harness connector B



Pin-ning	Functions	Note
J4	-	-
K1	-	-
K2	-	-
K3	-	-
K4	Start signal	-
L1	Main relay power supply 1	-
L2	IG1 power supply	-
L3	Grounding	-
L4	Grounding	-
M1	B+ power supply	-
M2	Main relay power supply 2	-
M3	Main relay power supply 3	-
M4	Grounding	-

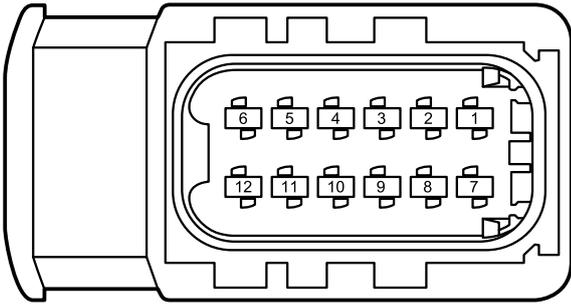
Pin-ning	Functions	Note
D3	-	-
D4	-	-
E1	-	-
E2	-	-
E3	-	-
E4	-	-
F1	-	-
F2	-	-
F3	-	-
F4	-	-
G1	High Voltage Interlocking Input Signal	-
G2	-	-
G3	-	-
G4	-	-
H1	Shift Signal Input	-
H2	-	-
H3	-	-
H4	-	-
J1	-	-
J2	-	-
J3	-	-
J4	-	-
K1	-	-
K2	-	-
K3	Cooling Water Pump Relay Feedback Signal	-
K4	-	-
L1	-	-
L2	-	-
L3	-	-
L4	-	-
M1	-	-
M2	-	-
M3	-	-
M4	-	-

CA68 VCU module harness connector C



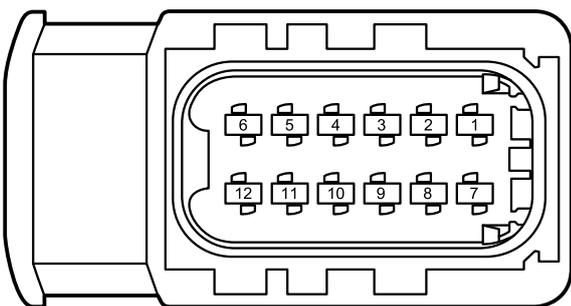
Pin-ning	Functions	Note
A1	-	-
A2	-	-
A3	CS CAN-L	-
A4	CS CAN-H	-
B1	-	-
B2	-	-
B3	Private CAN-L	-
B4	Private CAN-H	-
C1	-	-
C2	-	-
C3	-	-
C4	-	-
D1	-	-
D2	LIN	-

CA69 BMS module harness connector A



Pin-ning	Functions	Note
1	B+ power supply	-
2	Ground connection	-
3	HB CAN-H	-
4	HB CAN-L	-
5	Ground connection	-
6	Collision signal output	-
7	IG2 power supply	-
8	-	-
9	Fast Charging Positive Pole Temperature Sensor Signal Positive	-
10	Fast Charging Positive Pole Temperature Sensor Signal Negative	-
11	-	-
12	-	-

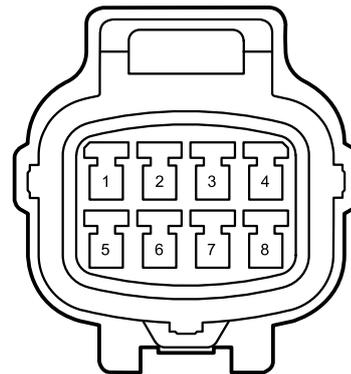
CA70 BMS module harness connector B



Pin-ning	Functions	Note
1	Fast Charging CAN-H	-
2	Fast Charging CAN-L	-
3	Charging Connection Confirmation CC2Signal	-

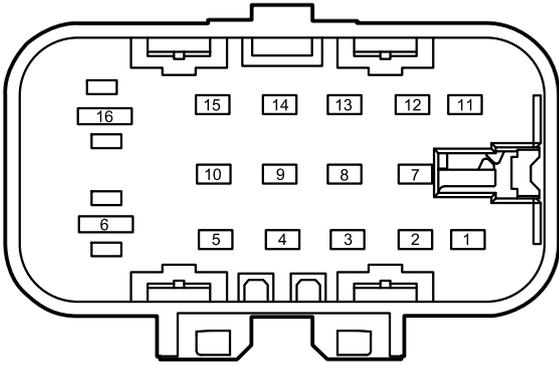
Pin-ning	Functions	Note
4	Fast Charging Awakening Signal Positive	-
5	Fast Charging Awakening Signal Negative	-
6	-	-
7	-	-
8	-	-
9	-	-
10	-	-
11	Fast Charging Negative Pole Temperature Sensor Signal Positive	-
12	Fast Charging Negative Pole Temperature Sensor Signal Negative	-

CA73a Low Speed Alarm Controller Harness Connector



Pin-ning	Functions	Note
1	CF CAN-H	-
2	CF CAN-L	-
3	Ground connection	-
4	IG1 power supply	-
5	-	-
6	-	-
7	-	-
8	-	-

CA84c cabin harness connects to engine harness connector

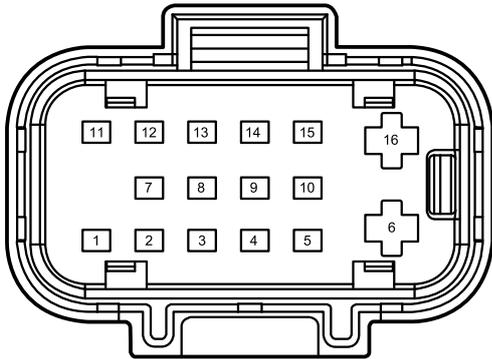


CA85c front bumper harness connects to engine compartment harness connector

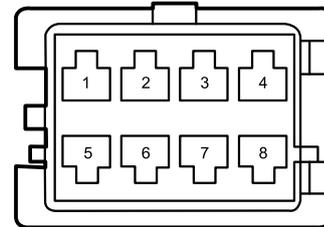


Pin-ning	Functions	Note
1	B+ power supply	-

CA102c JC11 harness connector

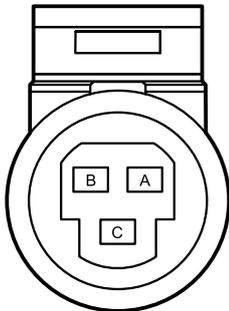


CA86 A/C pressure sensor harness connector



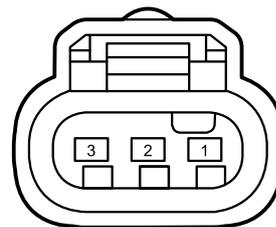
Pin-ning	Functions	Note
1	CS CAN-H	-
2	CS CAN-H	-
3	CS CAN-H	-
4	CS CAN-H	-
5	CS CAN-L	-
6	CS CAN-L	-
7	CS CAN-L	-
8	CS CAN-L	-

CA109 Left Front Dead Zone Probe Harness Connector



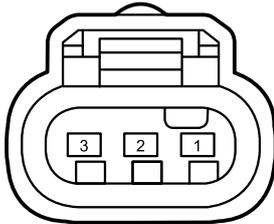
Pin-ning	Functions	Note
A	Grounding	-
B	5V power supply	-
C	Pressure signal	-

CA95 Battery positive harness connector



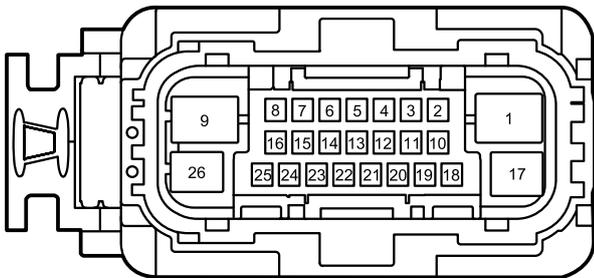
Pin-ning	Functions	Note
1	Power supply	-
2	Signal	-
3	Ground connection	-

CA110 Right Front Dead Zone Probe Harness Connector



Pin-ning	Functions	Note
1	Power supply	-
2	Signal	-
3	Ground connection	-

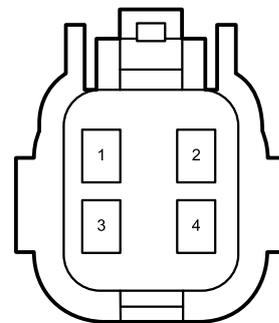
CA141 Smart Booster Harness Connector



Pin-ning	Functions	Note
1	ALT power supply	-
2	Power supply of displacement sensor	-
3	-	-
4	-	-
5	-	-
6	-	-
7	-	-
8	Displacement Sensor Grounding	-

Pin-ning	Functions	Note
9	Ground connection	-
10	CS CAN-L	-
11	-	-
12	-	-
13	-	-
14	-	-
15	-	-
16	Private CAN-L	-
17	-	-
18	CS CAN-H	-
19	-	-
20	IG1 power supply	-
21	-	-
22	Displacement sensor signal 1	-
23	Displacement sensor signal 2	-
24	-	-
25	Private CAN-H	-
26	-	-

CA159a Intelligent Changeable Air-inlet Grating Motor Harness Connector



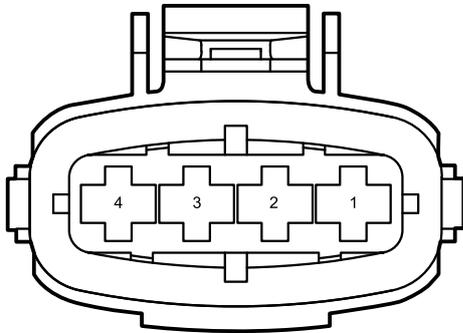
Pin-ning	Functions	Note
1	Ground connection	-
2	ALT power supply	-
3	-	-
4	LIN	-

CA162- PTC Heating Controller Harness Connector 3



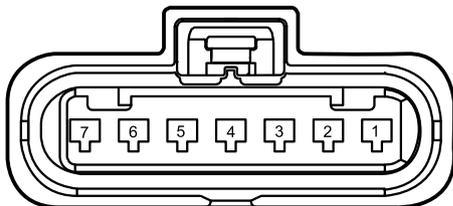
Pin-ning	Functions	Note
1	Ground connection	-

CA165 displacement sensor harness connector



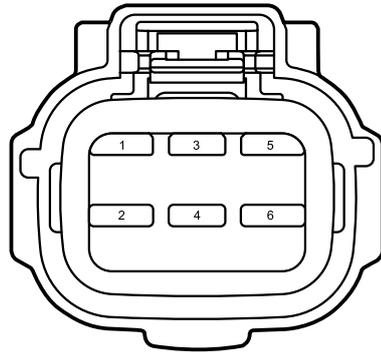
Pin-ning	Functions	Note
1	Ground connection	-
2	Signal 2	-
3	Power supply	-
4	Signal 1	-

CA207 Millimeter Wave Radar Probe Harness Connector



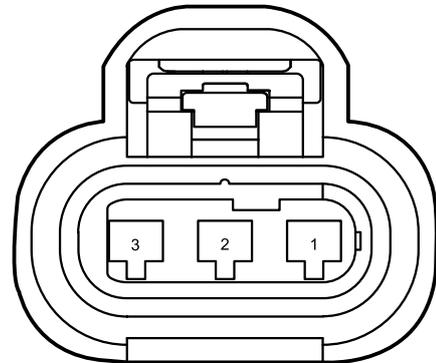
Pin-ning	Functions	Note
1	Ground connection	-
2	CS CAN-H	-
3	CS CAN-L	-
4	IG1 power supply	-
5	CAN-H	-
6	CAN-L	-
7	-	-

CA209 Right AC Charging Indicator Lamp Harness Connector



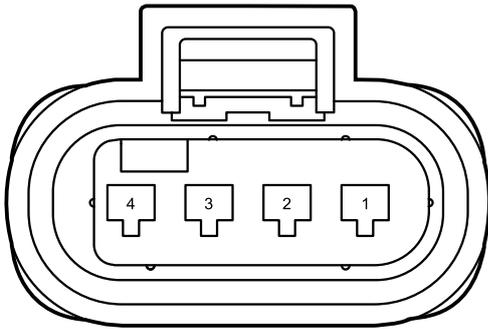
Pin-ning	Functions	Note
1	ALT power supply	-
2	Ground connection	-
3	Driving Signal	-
4	-	-
5	Driving Signal	-
6	Driving Signal	-

CA210 Four-way valve harness connector



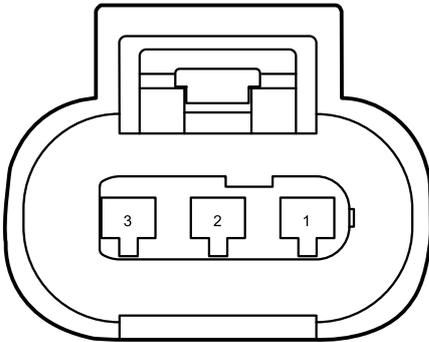
Pin-ning	Functions	Note
1	Ground connection	-
2	LIN	-
3	Power supply	-

CA212 Electronic Expansion Valve Harness Connector  
1



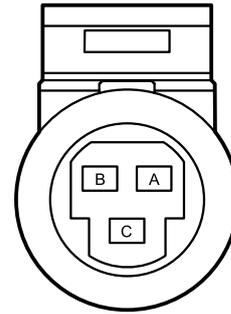
Pin-ning	Functions	Note
1	Ground connection	-
2	LIN	-
3	-	-
4	Power supply	-

CA214 solenoid valve harness connector



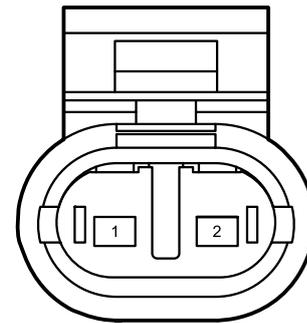
Pin-ning	Functions	Note
1	Ground connection	-
2	LIN	-
3	Power supply	-

CA220 A/C low pressure sensor harness connector



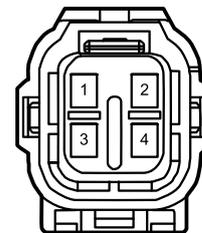
Pin-ning	Functions	Note
A	Grounding	-
B	5V power supply	-
C	Pressure signal	-

CA221b coolants temperature sensor harness connector

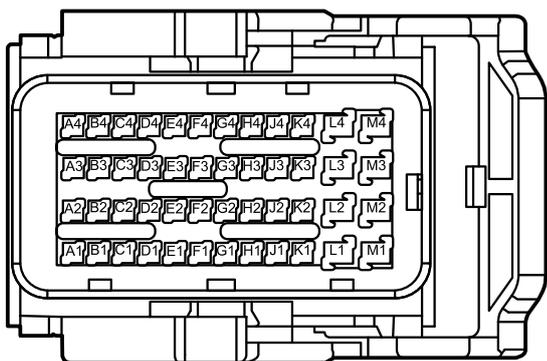


Pin-ning	Functions	Note
1	Sensor positive	-
2	Sensor negative	-

CA256 PTC Harness -Power Harness Connector



CA272 High and Low Voltage Charging System Harness Connector 3



Pin-ning	Functions	Note
A1	AC Charging Confirmation CP Signal	-
A2	AC Charging Confirmation CC Signal	-
A3	-	-
A4	-	-
B1	HB CAN-H	-
B2	HB CAN-L	-
B3	-	-
B4	-	-
C1	-	-
C2	-	-
C3	-	-
C4	-	-
D1	-	-
D2	-	-
D3	-	-
D4	-	-
E1	High Voltage Interlocking Output Signal	-
E2	High Voltage Interlocking Input Signal	-
E3	-	-
E4	-	-
F1	-	-
F2	-	-
F3	-	-
F4	-	-
G1	L1 temperature sensor positive	-
G2	L1 temperature sensor negative	-
G3	N temperature sensor positive	-
G4	N temperature sensor negative	-
H1	-	-
H2	-	-

Pin-ning	Functions	Note
H3	Electronic Lock Sensor Positive	-
H4	Electronic Lock Sensor Negative	-
J1	-	-
J2	IG1 power supply	-
J3	Charger Awakening Signal	-
J4	-	-
K1	-	-
K2	AC Charging Indicator Lamp Driving Signal	-
K3	AC Charging Indicator Lamp Driving Signal	-
K4	AC Charging Indicator Lamp Driving Signal	-
L1	-	-
L2	-	-
L3	-	-
L4	-	-
M1	B+ power supply	-
M2	Grounding	-
M3	Electronic Lock Interlock Positive	-
M4	Electronic Lock Interlock Negative	-

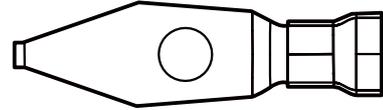
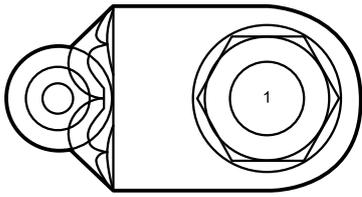
CA273a High and Low Voltage Charging System Harness Connector 4



Pin-ning	Functions	Note
1	12V power output	-

CA274 DC/DC battery charger terminal harness connector

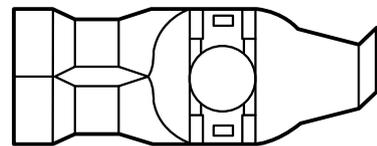
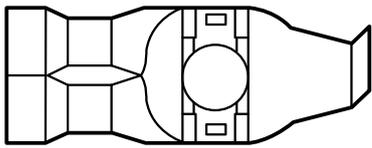
G07



Pin-ning	Functions	Note
1	ALT power supply	-

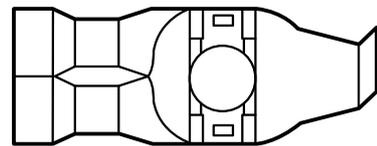
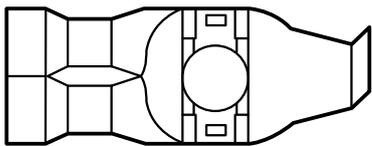
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G04



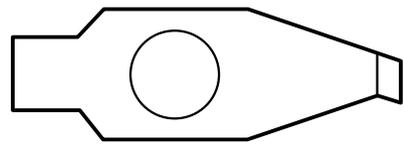
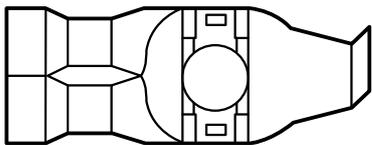
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G05

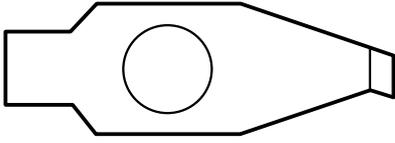


G10

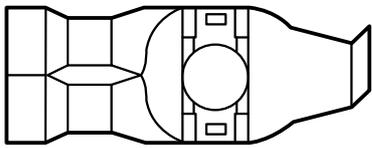
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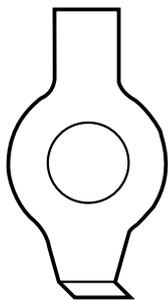
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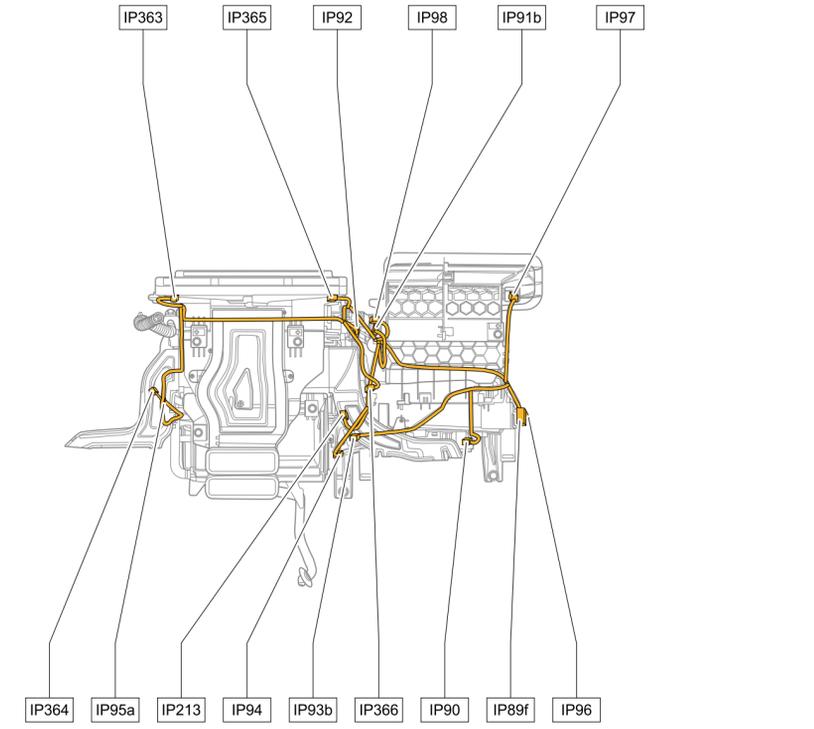
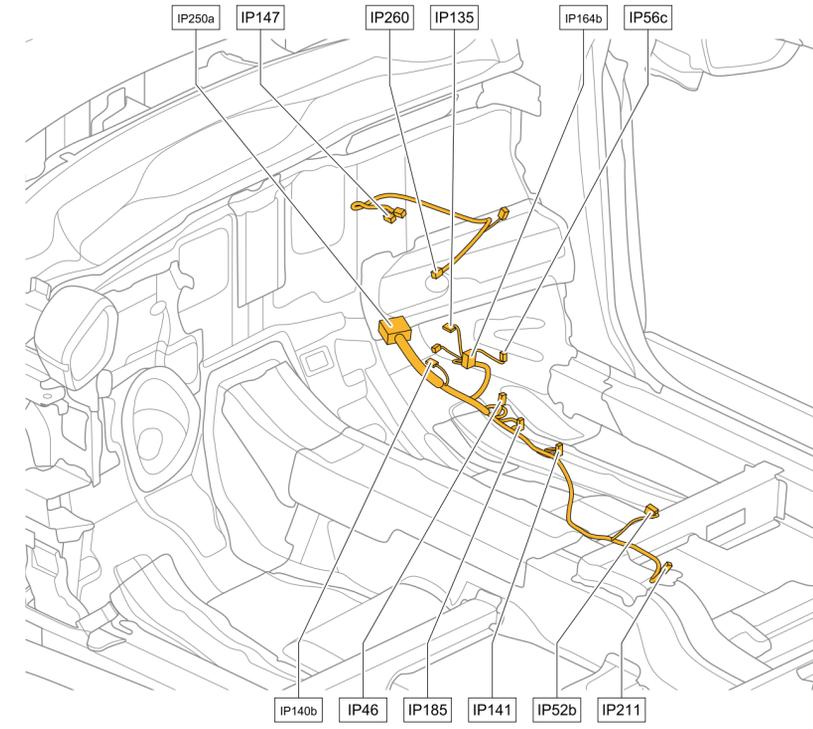
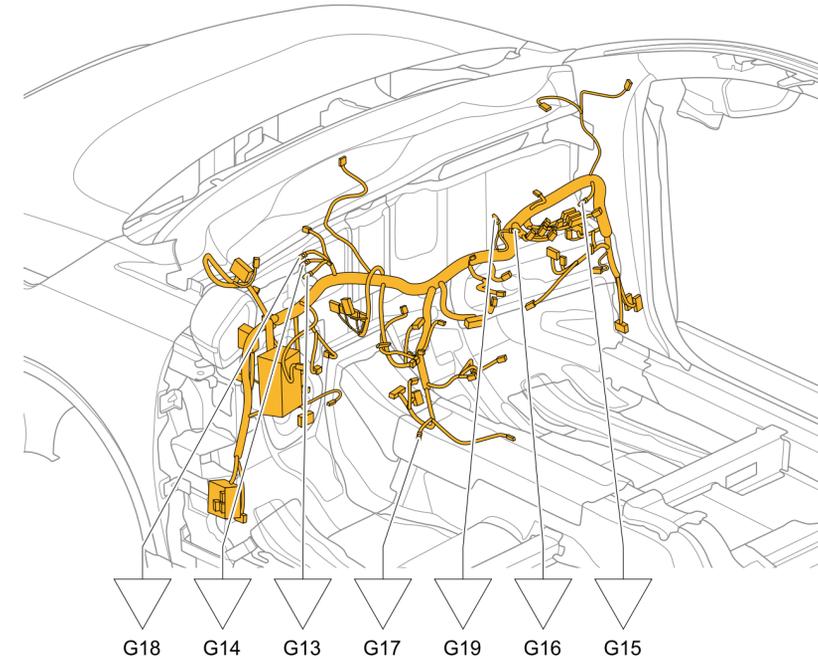
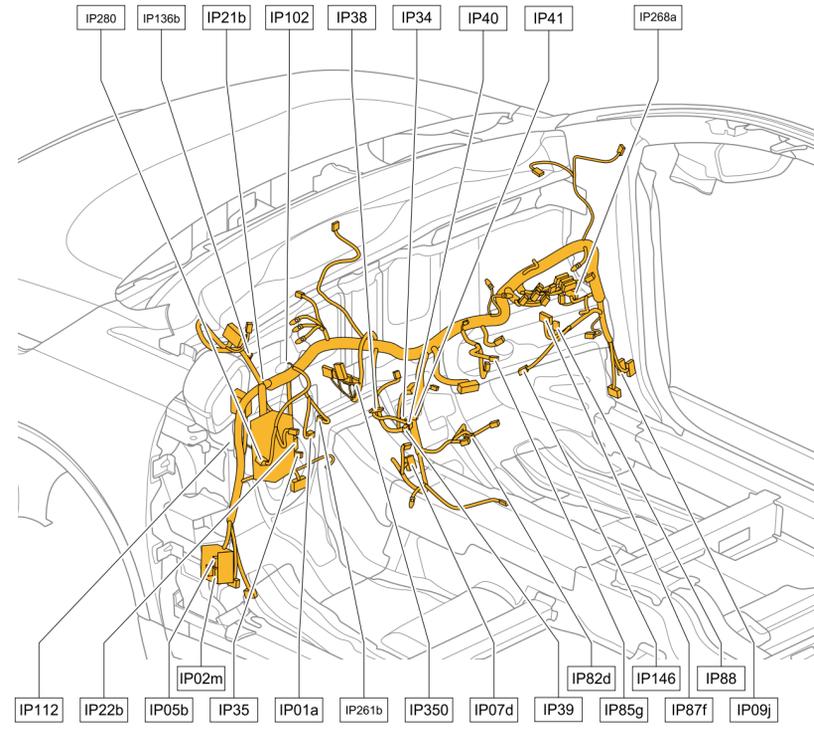
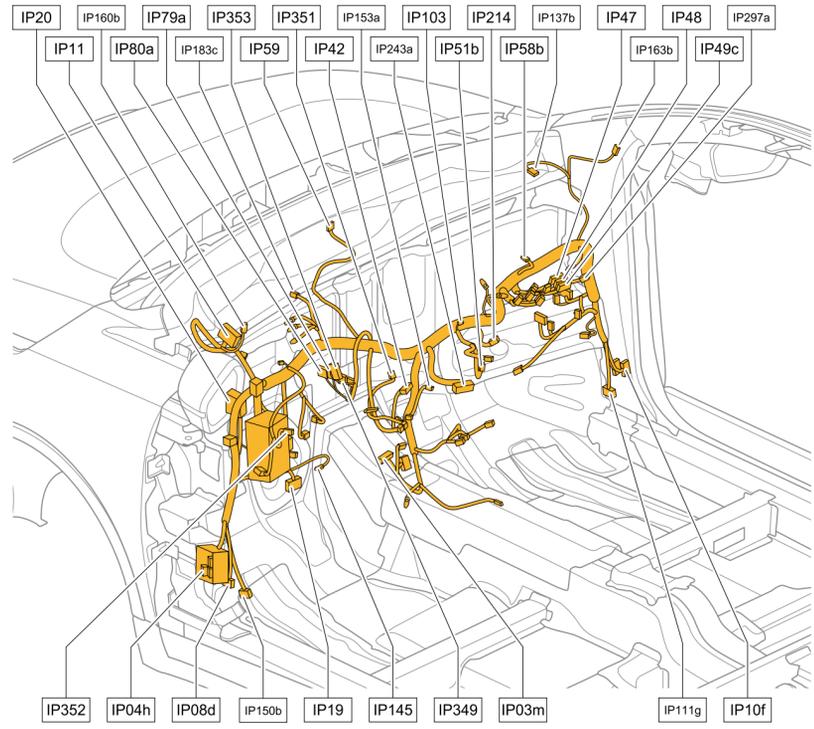
G12



G29



Instrument Wiring Harness Arrangement Diagram



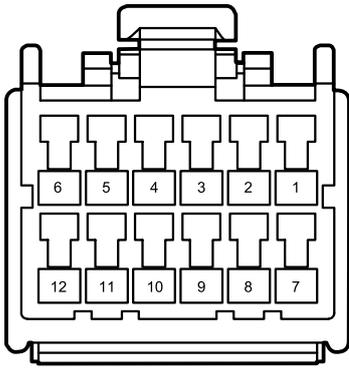
**Instrument Harness Connector List**

Harness connector	Name	Harness connector	Name
IP01a	Instrument cluster controller harness connector 1	IP95a	Left temperature actuator harness connector
IP02m	Instrument harness connects to engine compartment harness connector 1	IP96	Automatic A/C harness connects to instrument harness connector B
IP03m	Instrument harness connects to engine compartment harness connector 2	IP97	AQS harness connector
IP04h	Instrument harness connects to engine compartment harness connector 3	IP98	Ionizer Harness Connector
IP05b	Instrument harness connects to engine compartment harness connector 4	IP102	JC02 harness connector
IP07d	Instrument harness connects to base plate harness connector 1	IP103	JC03 harness connector
IP08d	Instrument harness connects to base plate harness connector 2	IP111g	Instrument harness connects to base plate harness connector 5
IP09j	Instrument harness connects to base plate harness connector 3	IP112	Gateway harness connector
IP10f	Instrument harness connects to base plate harness connector 4	IP135	Wireless Charger Module Harness Connector
IP11	Instrument harness connects to roof harness connector	IP136b	Atmosphere lamp harness connector at driver side
IP19	DLC harness connector	IP137b	Atmosphere lamp harness connector at front passenger side
IP20	Body control module harness connector 1	IP140b	Center Console Left Atmosphere Lamp Harness Connector
IP21b	Body control module harness connector 2	IP141	EPB switch harness connector
IP22b	Body control module harness connector 3	IP145	Driver Side Foot Lamping Lamp Harness Connector
IP34	Electric steering column lock harness connector	IP146	Front Passenger Side Foot Lamping Lamp Harness Connector
IP35	EPS module harness connector	IP147	Display screen harness connector
IP38	Light combination switch harness connector	IP150b	Instrument harness connects to base plate harness connector 6
IP39	Clock spring harness connector A	IP153a	Indoor temperature sensor harness connector
IP40	Clock spring harness connector B	IP160b	Left front tweeter harness connector
IP41	Steering-angle sensor harness connector	IP163b	Right front tweeter harness connector
IP42	Wiper combination switch harness connector	IP164b	Auxiliary dashboard switch assembly harness connector
IP46	Starting switch harness connector	IP183c	Head-up display harness connector
IP47	Radio control unit harness connector A	IP185	Electronic shift lever harness connector

Harness connector	Name	Harness connector	Name
IP48	Radio control unit harness connector B	IP211	Second-row USB socket harness connector
IP49c	Radio control unit harness connector C	IP213	Right temperature actuator harness connector
IP51b	Front left antenna harness connector	IP214	Instrument Harness- Separated LCD Harness Connector
IP52b	Middle antenna harness connector	IP243a	Instrument harness connects to instrument harness connector 1
IP56c	Hazard warning lamp switch harness connector	IP250a	Instrument harness connects to instrument harness connector 1
IP58b	Front passenger airbag harness connector	IP260	Separated LCD Harness- Instrument Harness Connector
IP59	Ambient and sunlight sensor harness connector	IP261b	Instrument cluster controller harness connector 2
IP79a	Heat management module harness connector 1	IP268a	E-CALL harness connector
IP80a	Heat management module harness connector 2	IP280	E-CALL Loudspeaker Harness Connector
IP82d	Front standby power supply harness connector	IP297a	Audio master harness connector D
IP85g	Automatic A/C control panel harness connector A	IP349	Heat management module harness connector 3
IP87f	Instrument harness connects to automatic A/C harness connector A	IP350	Heat management module harness connector 4
IP88	Instrument harness connects to automatic A/C harness connector B	IP351	Instrument cluster display harness connector
IP89f	Automatic A/C harness connects to instrument harness connector A	IP352	Instrument cluster switch harness connector
IP90	Blower harness connector	IP353	Harness connector of door handle control module
IP91b	Internal and external circulation actuator harness connector	IP363	Air Flue Sensor Harness Connector 1
IP92	Mode actuator harness connector	IP364	Air Flue Sensor Harness Connector 2
IP93b	Speed governing module harness connector	IP365	Air Flue Sensor Harness Connector 3
IP94	Evaporator temperature sensor harness connector	IP366	Air Flue Sensor Harness Connector 4

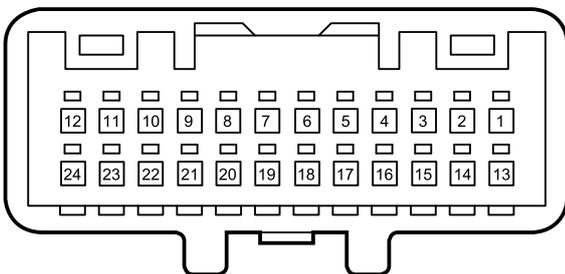
## Instrument Harness Terminal Definition

IP01a combination instrument control harness connector 1

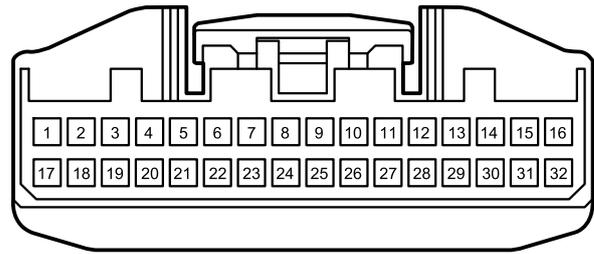


Pin-ning	Functions	Note
1	B+ power supply	-
2	IG1 power supply	-
3	-	-
4	IF CAN-L	-
5	IF CAN-H	-
6	Brake liquid level sensor signal	-
7	Ground connection	-
8	Ground connection	-
9	-	-
10	-	-
11	-	-
12	-	-

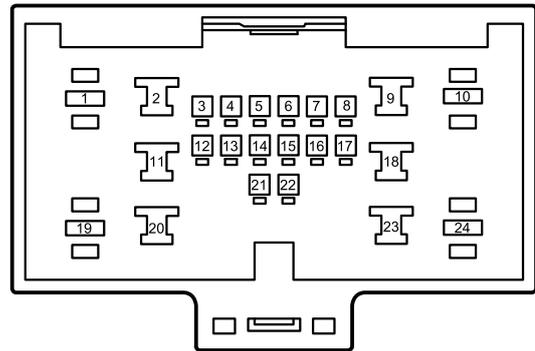
IP02m Instrument harness connects to engine compartment harness connector 1



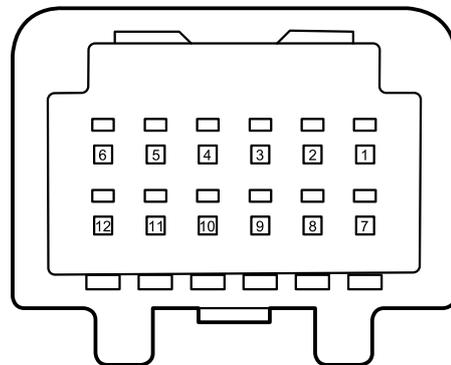
IP03m Instrument harness connects to engine compartment harness connector 2



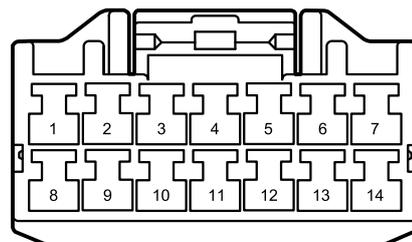
IP04h Instrument harness connects to engine compartment harness connector 3



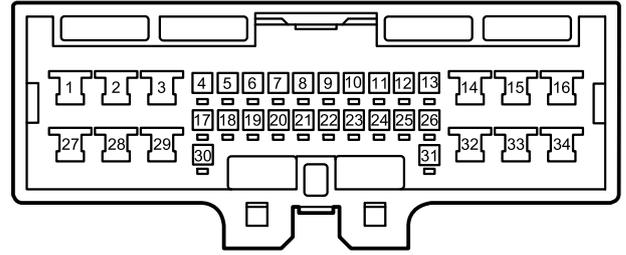
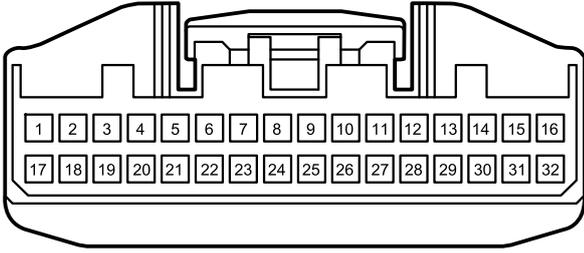
IP05b Instrument harness connects to engine compartment harness connector 4



IP07d Instrument harness connects to base plate harness connector 1

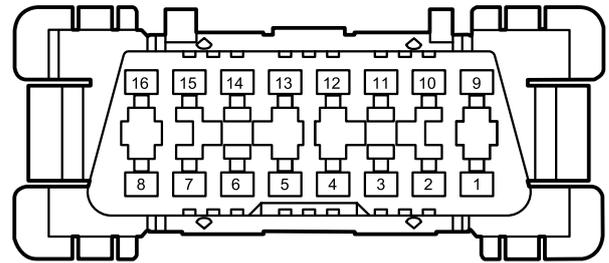
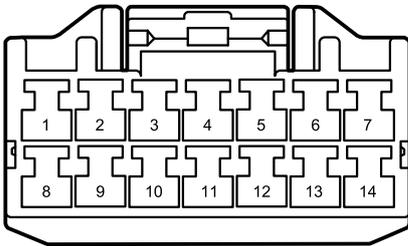


IP08d Instrument harness connects to base plate harness connector 2

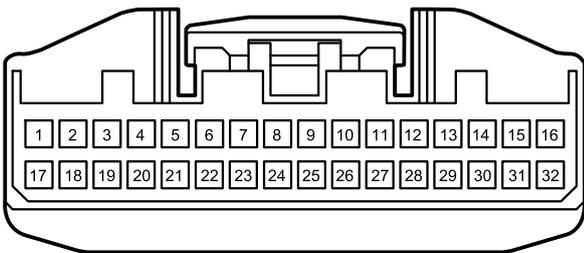


IP19 DLC harness connector

IP09j Instrument harness connects to base plate harness connector 3



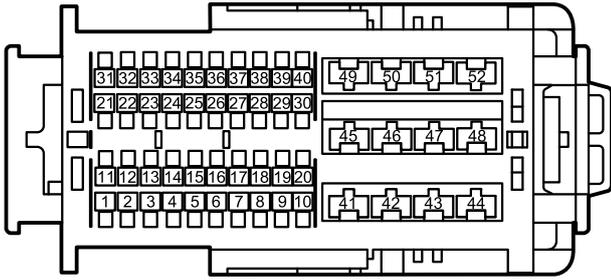
IP10f Instrument harness connects to base plate harness connector 4



IP11 Instrument harness connecting with roof harness connector 1

Pin-ning	Functions	Note
1	-	-
2	-	-
3	-	-
4	Ground connection	-
5	Ground connection	-
6	IF CAN-H	-
7	-	-
8	-	-
9	-	-
10	-	-
11	-	-
12	-	-
13	-	-
14	IF CAN-L	-
15	-	-
16	B+ power supply	-

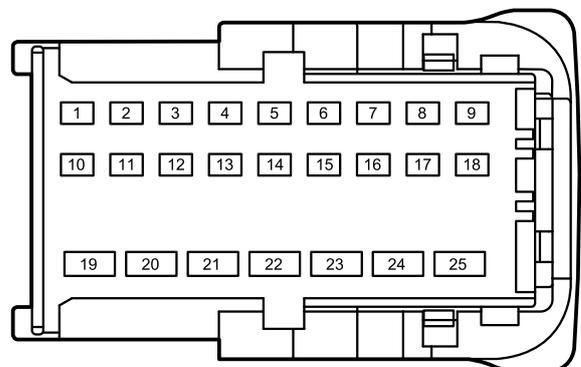
IP20 Body control module harness connector 1



Pin-ning	Functions	Note
1	Starting signal	-
2	IG1 power supply	-
3	Brake lamp switch signal	-
4	-	-
5	-	-
6	-	-
7	Rear wiper washing switch signal	-
8	-	-
9	Position lamp switch signal	-
10	-	-
11	-	-
12	-	-
13	Front Steering Lamp Diagnosis Signal	-
14	Front Cabin Cover Contact Switch Signal	-
15	-	-
16	-	-
17	-	-
18	Front wiper stop position switch input	-
19	Automatic headlamp switch signal	-
20	High beam lamp switch signal	-
21	Hazard warning lamp switch signal	-
22	-	-
23	-	-
24	Turn dynamic lighting signal output	-
25	-	-
26	Wireless charging enabled	-
27	-	-
28	Low-speed wiper relay control	-
29	High-speed wiper relay control	-

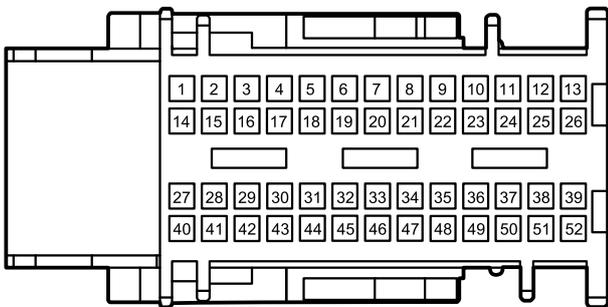
Pin-ning	Functions	Note
30	-	-
31	-	-
32	-	-
33	-	-
34	Horn relay control	-
35	-	-
36	Rear defroster relay control	-
37	-	-
38	-	-
39	-	-
40	High beam lamp switch detection signal output	-
41	-	-
42	Driver Side Door Lock Motor, Charging Covering Cap Motor Unlocking Signal	-
43	Central door lock power supply	-
44	Central unlocking signal (except driver side)	-
45	Ground connection	-
46	Left dipped headlight signal output	-
47	Central locking signal	-
48	-	-
49	Washer power supply	-
50	Rear washer signal output	-
51	Front washer signal output	-
52	External Lamp Power Supply 2	-

IP21b body control module harness connector 2



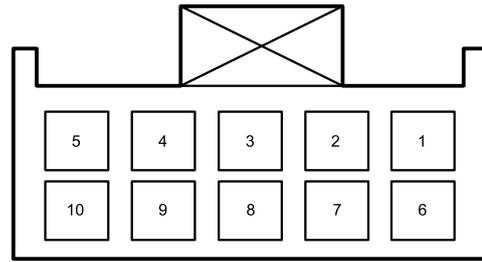
Pin-ning	Functions	Note
1	Right high beam lamp signal output	-
2	Left daytime running light signal output	-
3	Backdoor lock motor unlocking	-
4	High mount brake lamp signal output	-
5	Economizer relay output	-
6	Rear fog lamp signal output	-
7	Brake lamp signal output	-
8	Reverse lamp signal output	-
9	Left high beam signal output	-
10	Reading lamp door control gear	-
11	-	-
12	Right position lamp signal output	-
13	Backlight signal output	-
14	Right turn signal output	-
15	Left turn signal output	-
16	Right daytime running light signal output	-
17	Left position lamp signal output	-
18	-	-
19	Ground connection	-
20	Right dipped lamp signal output	-
21	External Lamp Power Supply 1	-
22	B+ power supply	-
23	Turn signal power supply	-
24	-	-
25	-	-

IP22b body control module harness connector 3



Pin-ning	Functions	Note
1	Hazard warning switch indicator	-
2	-	-
3	Low beam lamp switch signal	-
4	Guest Receiving Signal	-
5	-	-
6	Start Switch Back Lamp Signal Output	-
7	-	-
8	-	-
9	Folding of rearview mirrors	-
10	Unfolding of rearview mirrors	-
11	-	-
12	Foot Lamping Lamp Signal Output	-
13	-	-
14	Central lock switch status indicator	-
15	Electronic parking working indicator signal output	-
16	-	-
17	-	-
18	Luggage Boot Lamp Signal Output	-
19	Ambient Lamp Sensor Signal	-
20	ACC power supply	-
21	IG2 power supply	-
22	Collision signal output	-
23	Rear wiper relay control	-
24	IG2 relay control	-
25	ACC relay control	-
26	-	-
27	-	-
28	-	-
29	LIN1 communication-car window	-
30	Rear wiper switch signal	-
31	-	-
32	Front wiper intermittent switch signal	-
33	Right turn switch signal	-
34	IG1 relay control	-
35	-	-
36	-	-
37	-	-
38	Green indicator of start switch button	-

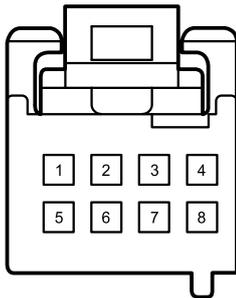
Pin-ning	Functions	Note
39	Window locking indicator lamp	-
40	-	-
41	CF CAN-L	-
42	CF CAN-H	-
43	LIN2 Communication-Skylight	-
44	Rear wiper intermittent switch signal	-
45	Rear fog lamp switch signal	-
46	Front wiper high speed switch signal	-
47	Left turn switch signal	-
48	-	-
49	-	-
50	-	-
51	Orange indicator of start switch button	-
52	LIN3 Communication-RF Antenna	-



IP34 electric steering column lock harness connector

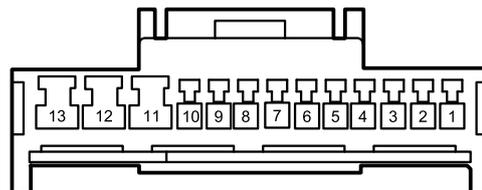
Pin-ning	Functions	Note
1	IG1 power supply	-
2	CS CAN-H	-
3	-	-
4	CS CAN-L	-
5	-	-
6	-	-
7	-	-
8	-	-
9	-	-
10	-	-

IP38 headlamp combination switch harness connector



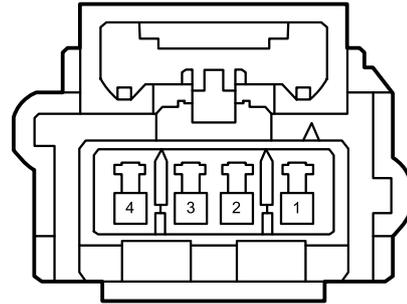
Pin-ning	Functions	Note
1	-	-
2	-	-
3	Ground connection	-
4	B+ power supply	-
5	CF CAN-L	-
6	CF CAN-H	-
7	Speed signal	-
8	IG1 power supply	-

IP35 EPS module harness connector

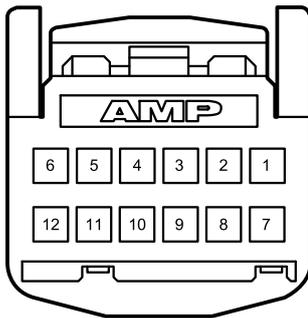


Pin-ning	Functions	Note
1	LampLamp Switch Grounding	-
2	Position lamp switch signal	-
3	Automatic headlamp switch signal	-
4	Low beam lamp switch signal	-
5	Rear fog lamp switch grounding	-
6	-	-
7	Rear fog lamp switch signal	-
8	-	-

Pin-ning	Functions	Note
9	High beam lamp switch signal	-
10	High/low beam switch signal	-
11	Left turn switch signal	-
12	Turn signal switch grounding	-
13	Right turn switch signal	-

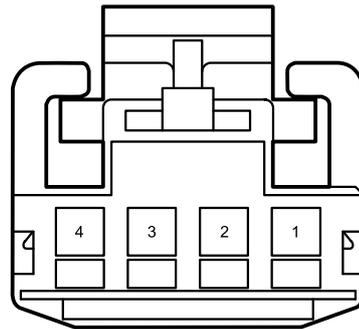


IP39 Clock spring harness connector A



Pin-ning	Functions	Note
1	Driver front airbag positive	-
2	Driver front airbag negative	-
3	Horn relay control	-
4	-	-

IP41 Steering angle sensor harness connector

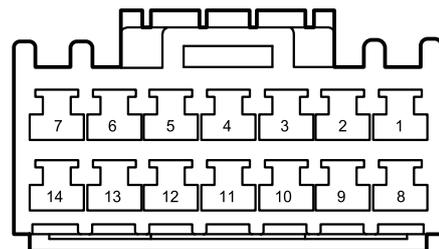


Pin-ning	Functions	Note
1	-	-
2	Cruise switch signal	-
3	Cruise switch grounding	-
4	Cruising Setting Signal	-
5	-	-
6	-	-
7	-	-
8	Backlight lamp power supply	-
9	Backlight lamp grounding	-
10	Right Multi-media Switch Positive	-
11	Multimedia switch grounding	-
12	Left Multi-media Switch Positive	-

Pin-ning	Functions	Note
1	Ground connection	-
2	IG1 power supply	-
3	CS CAN-H	-
4	CS CAN-L	-

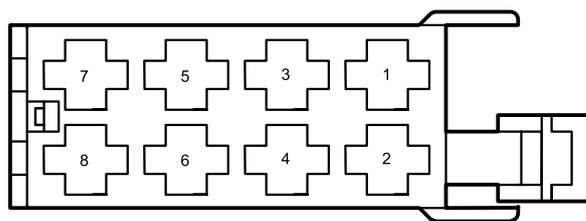
IP42 wiper combination switch harness connector

IP40 Clock spring harness connector B



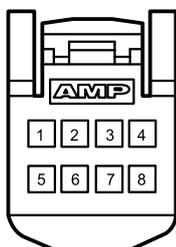
Pin-ning	Functions	Note
1	Front wiper inching signal	-
2	Front Wiper Restoration Signal	-
3	Front wiper low speed signal	-
4	-	-
5	Rear washer switch signal	-
6	Ground connection	-
7	Rear wiper intermittent signal	-
8	Front wiper intermittent signal	-
9	Front wiper high speed signal	-
10	Ground connection	-
11	Front washer switch signal	-
12	Intermittent time adjustment switch negative	-
13	Intermittent time adjustment switch positive	-
14	Rear wiper switch signal	-

IP46 start-up switch harness connector



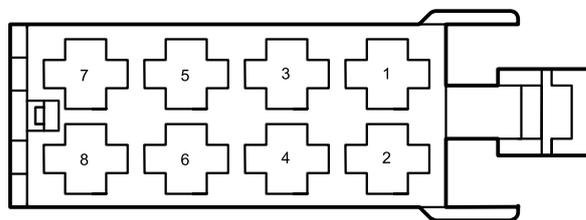
Pin-ning	Functions	Note
1	Steering Wheel Signal Input L	-
2	Steering wheel signal grounding	-
3	Steering Wheel Signal Input R	-
4	ACC power supply	-
5	-	-
6	Radar Probe Signal Input	-
7	B+ power supply	-
8	Ground connection	-

IP48 audio master harness connector B



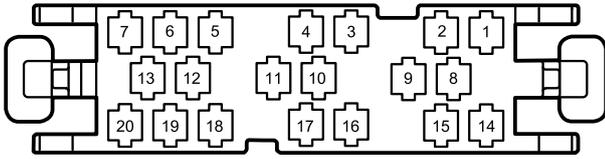
Pin-ning	Functions	Note
1	Back Lighting	-
2	Switch signal 1	-
3	Switch grounding	-
4	Switch signal 2	-
5	Green Indicator Lamp	-
6	Orange indicator lamp	-
7	-	-
8	-	-

IP47 Radio control unit harness connector A



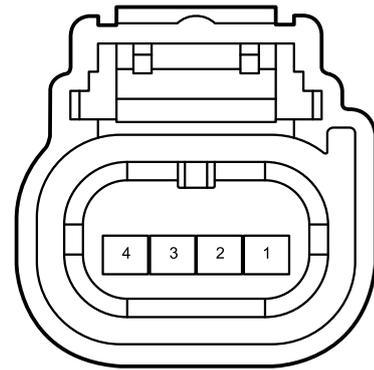
Pin-ning	Functions	Note
1	RR loudspeaker positive	-
2	RR loudspeaker negative	-
3	Loudspeaker at front passenger side positive	-
4	Loudspeaker at front passenger side negative	-
5	Woofers at driver side positive	-
6	Woofers at driver side negative	-
7	RL loudspeaker positive	-
8	RL loudspeaker negative	-

## IP49c audio master harness connector



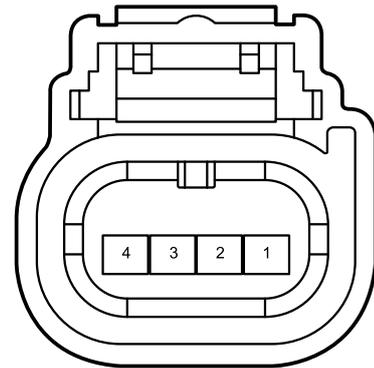
Pin-ning	Functions	Note
1	-	-
2	-	-
3	IF CAN-L	-
4	IF CAN-H	-
5	LIN	-
6	-	-
7	-	-
8	Microphone 1 negative	-
9	Microphone 1 positive	-
10	Rear camera grounding	-
11	Rear camera video signal - negative	-
12	-	-
13	Silence Signal	-
14	-	-
15	-	-
16	Rear camera power supply	-
17	Rear camera video signal- positive	-
18	Display Screen Awakening Signal	-
19	-	-
20	-	-

## IP51b harness connector of left front antenna



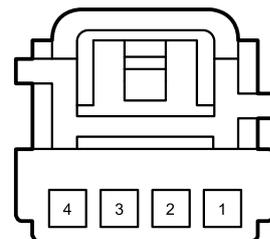
Pin-ning	Functions	Note
1	Antenna positive	-
2	Antenna negative	-
3	-	-
4	-	-

## IP52b harness connector of middle antenna



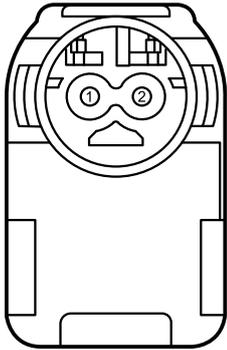
Pin-ning	Functions	Note
1	Antenna positive	-
2	Antenna negative	-
3	-	-
4	-	-

## IP56c hazard warning switch harness connector



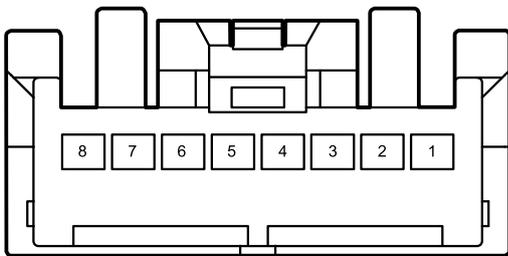
Pin-ning	Functions	Note
1	Switch indicator signal positive	-
2	Switch signal output	-
3	Ground connection	-
4	-	-

IP58b Front passenger airbag harness connector



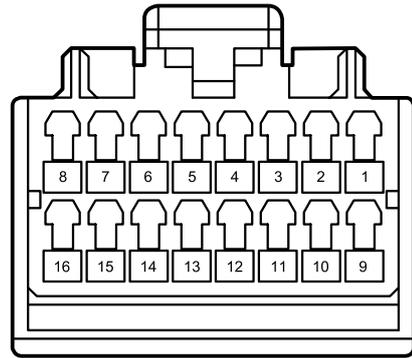
Pin-ning	Functions	Note
1	Signal positive	-
2	Signal negative	-

IP59 ambient and sunlight sensor harness connector



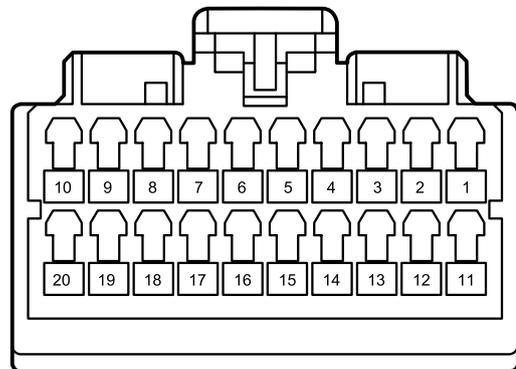
Pin-ning	Functions	Note
1	-	-
2	Ambient Lamp Sensor Power Supply	-
3	Sunlight sensor signal (right channel)	-
4	Sunlight sensor grounding	-
5	Sunlight sensor signal (left channel)	-
6	Ambient Lamp Sensor Signal Output	-
7	Ambient Lamp Sensor Grounding	-
8	-	-

IP79a heat management control module harness connector 1



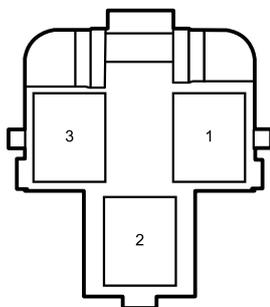
Pin-ning	Functions	Note
1	IG1 power supply	-
2	Left sunlight sensor signal	-
3	Right sunlight sensor signal	-
4	-	-
5	-	-
6	-	-
7	Ionizer Working Signal	-
8	Ground connection	-
9	CF CAN-H	-
10	CF CAN-L	-
11	LIN	-
12	B+ power supply	-
13	Ground connection	-
14	Indoor temperature sensor positive	-
15	Outdoor temperature sensor positive	-
16	-	-

IP80a heat management control module harness connector 2



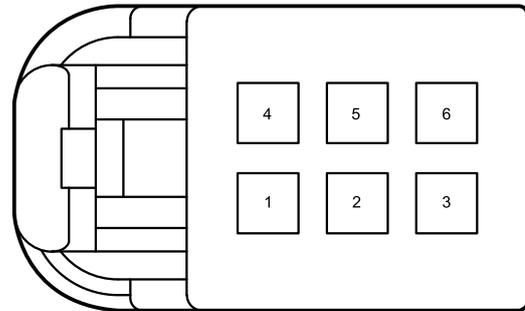
Pin-ning	Functions	Note
1	-	-
2	Left temperature damper motor negative	-
3	Left temperature damper motor positive	-
4	-	-
5	Compressor suction port pressure signal	-
6	-	-
7	Ionizer Feedback Signal	-
8	Power supply of sensor	-
9	Sensor grounding	-
10	-	-
11	Front Passenger Side Facing Air Flue Sensor Signal	-
12	Driver Side Facing Air Flue Sensor Signal	-
13	Air Blower Speed Regulation Signal	-
14	Blower feedback negative	-
15	Blower feedback positive	-
16	Battery Cooling Water Pump Control Signal	-
17	Driver Side Motor Temperature Feedback	-
18	-	-
19	A/C high pressure sensor signal	-
20	-	-

Ip82d front spare power supply harness connector



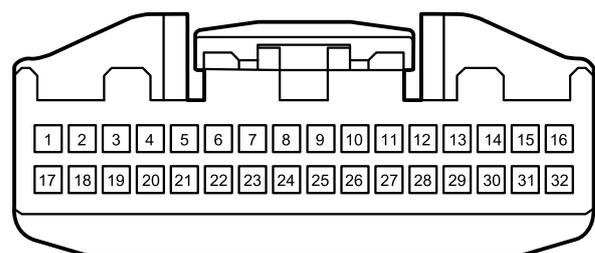
Pin-ning	Functions	Note
1	ACC power supply	-
2	Ground connection	-
3	-	-

IP85g Automatic A/C control panel harness connector

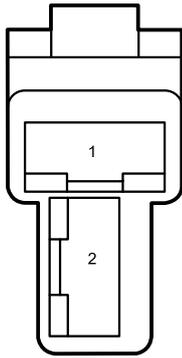


Pin-ning	Functions	Note
1	-	-
2	IG1 power supply	-
3	-	-
4	Backlight lamp power supply	-
5	Ground connection	-
6	LIN	-

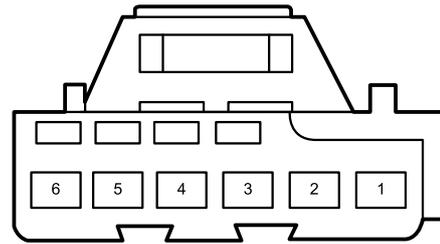
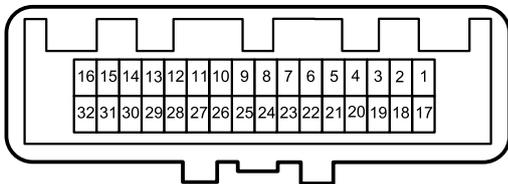
IP87f Instrument harness connects to automatic A/C harness connector A



IP88 Instrument harness connecting with automatic A/C harness connector B



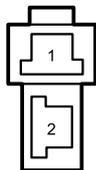
IP89f Automatic A/C harness connects to instrument harness connector A



Pin-ning	Functions	Note
1	Sensor grounding	-
2	Feedback signal	-
3	5V power supply	-
4	-	-
5	Motor positive	-
6	Motor negative	-

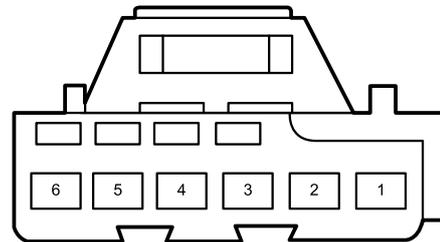
IP92 mode actuator harness connector

IP90 blower harness connector



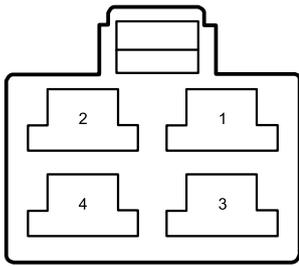
Pin-ning	Functions	Note
1	Motor positive	-
2	Motor negative	-

IP91b internal and external circulation actuator harness connector



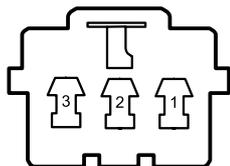
Pin-ning	Functions	Note
1	Sensor grounding	-
2	Feedback signal	-
3	5V power supply	-
4	-	-
5	Motor positive	-
6	Motor negative	-

IP93b speed control module harness connector



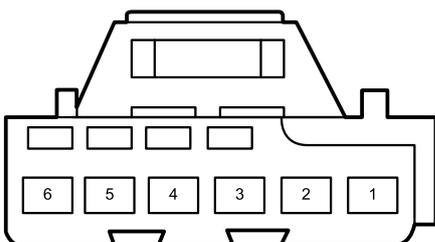
Pin-ning	Functions	Note
1	Control signal	-
2	Speed Regulation Signal	-
3	Ground connection	-
4	Feedback signal	-

IP94 evaporator temperature sensor harness connector



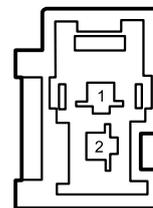
Pin-ning	Functions	Note
1	Sensor negative	-
2	-	-
3	Sensor positive	-

IP95a left temperature actuator harness connector

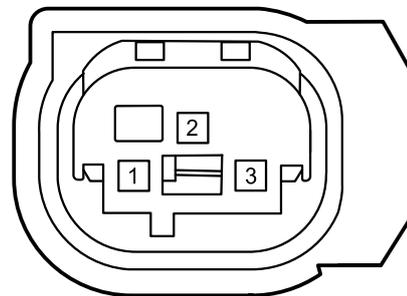


Pin-ning	Functions	Note
1	Sensor grounding	-
2	Feedback signal	-
3	5V power supply	-
4	-	-
5	Motor positive	-
6	Motor negative	-

IP96 Automatic A/C harness connecting with instrument harness connector B

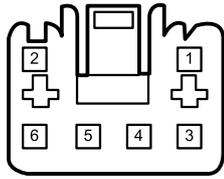


IP97 AQS harness connector



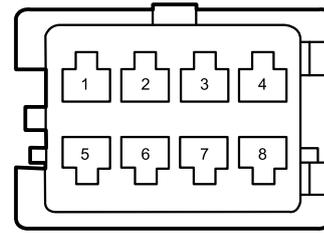
Pin-ning	Functions	Note
1	IG1 power supply	-
2	Ground connection	-
3	PWM signal	-

IP98 Ionizer Harness Connector



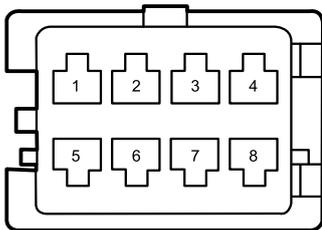
Pin-ning	Functions	Note
1	Ground connection	-
2	IG1 power supply	-
3	-	-
4	Control signal	-
5	Feedback signal	-
6	-	-

IP102 JC02 harness connector



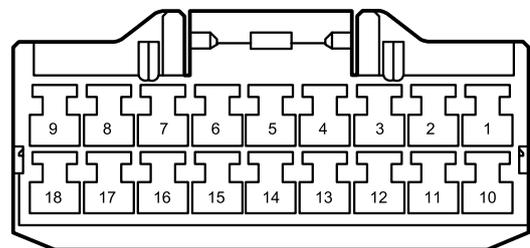
Pin-ning	Functions	Note
1	IF CAN-H	-
2	-	-
3	IF CAN-H	-
4	IF CAN-H	-
5	IF CAN-L	-
6	-	-
7	IF CAN-L	-
8	IF CAN-L	-

IP111g Instrument harness connects to base plate harness connector 5

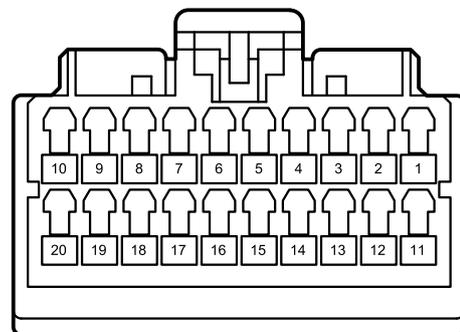


Pin-ning	Functions	Note
1	CS CAN-H	-
2	-	-
3	CS CAN-H	-
4	CS CAN-H	-
5	CS CAN-L	-
6	-	-
7	CS CAN-L	-
8	CS CAN-L	-

IP103 JC03 harness connector

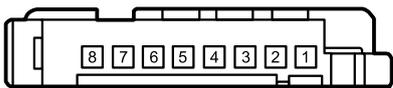


IP112 gateway harness connector



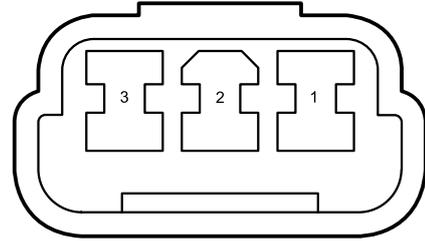
Pin-ning	Functions	Note
1	CF CAN-H	-
2	-	-
3	CS CAN-H	-
4	HB CAN-H	-
5	-	-
6	IF CAN-H	-
7	-	-
8	-	-
9	-	-
10	-	-
11	CF CAN-L	-
12	-	-
13	CS CAN-L	-
14	HB CAN-L	-
15	-	-
16	IF CAN-L	-
17	-	-
18	IG1 power supply	-
19	B+ power supply	-
20	Ground connection	-

IP135 Wireless Charger Module Harness Connector



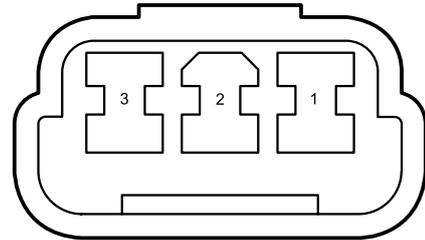
Pin-ning	Functions	Note
1	Ground connection	-
2	-	-
3	LIN	-
4	-	-
5	Wireless charging enabled	-
6	-	-
7	-	-
8	B+ power supply	-

IP136b Driver Side Atmosphere Lamp Harness Connector



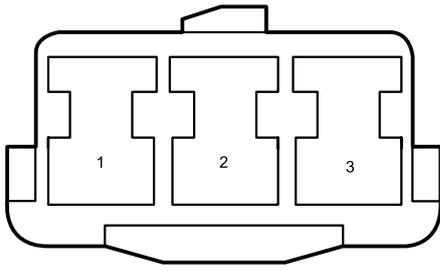
Pin-ning	Functions	Note
1	Ground connection	-
2	B+ power supply	-
3	LIN	-

IP137b Front Passenger Side Atmosphere Lamp Harness Connector



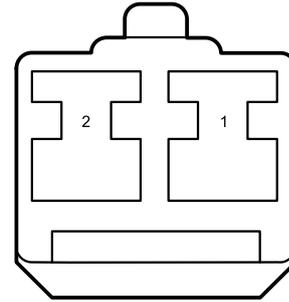
Pin-ning	Functions	Note
1	Ground connection	-
2	B+ power supply	-
3	LIN	-

IP140b Center Console Left Atmosphere Lamp Harness Connector



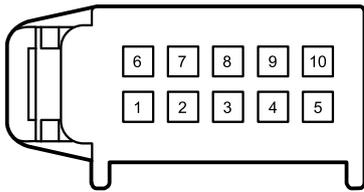
Pin-ning	Functions	Note
1	Ground connection	-
2	B+ power supply	-
3	LIN	-

IP141 EPB switch harness connector



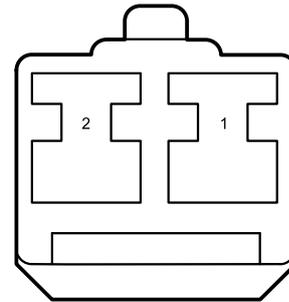
Pin-ning	Functions	Note
1	Ground connection	-
2	Power supply	-

IP146 Front Passenger Side Foot Lamping Lamp Harness Connector



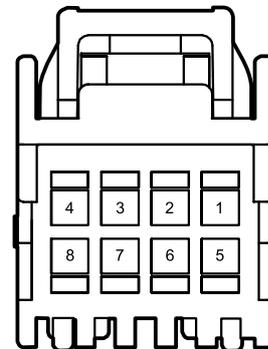
Pin-ning	Functions	Note
1	Auto hold indicator input signal	-
2	EPB indicator	-
3	Auto Hold switch signal	-
4	Auto hold indicator power supply	-
5	EPB release signal output	-
6	Ground connection	-
7	EPB-applied signal output	-
8	EPB release signal input	-
9	Backlight lamp power supply	-
10	EPB-applied signal input	-

IP145 Driver Side Foot Lamping Lamp Harness Connector



Pin-ning	Functions	Note
1	Ground connection	-
2	Power supply	-

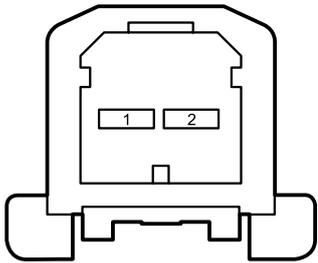
IP147 harness connector of display screen



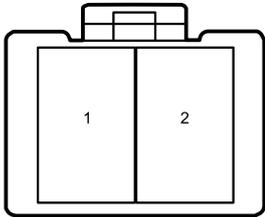
Pin-ning	Functions	Note
1	B+ power supply	-
2	-	-

Pin-ning	Functions	Note
3	-	-
4	Ground connection	-
5	Wake-up signal	-
6	-	-
7	-	-
8	-	-

IP150b Instrument harness connects to base plate harness connector 6

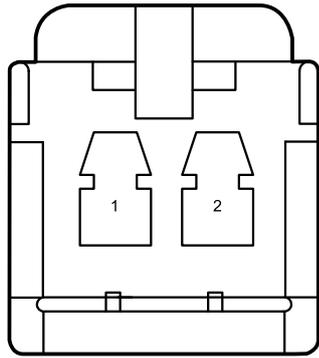


IP153a indoor temperature sensor harness connector



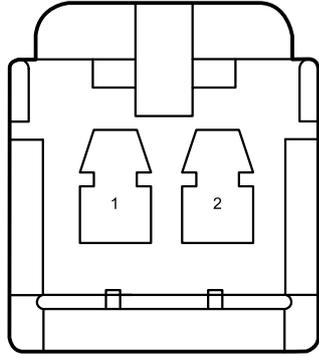
Pin-ning	Functions	Note
1	Sensor positive	-
2	Sensor negative	-

IP160b Left front tweeter harness connector



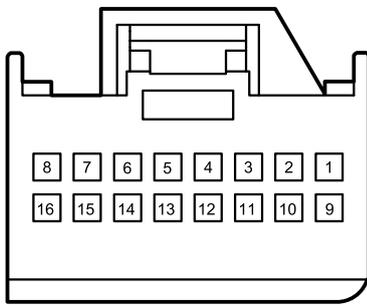
Pin-ning	Functions	Note
1	Loudspeaker negative	-
2	Loudspeaker positive	-

IP163b right front tweeter harness connector



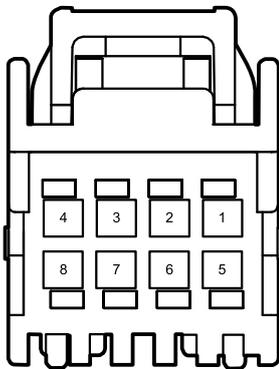
Pin-ning	Functions	Note
1	Loudspeaker negative	-
2	Loudspeaker positive	-

IP164b Harness connector of auxiliary dashboard switching group



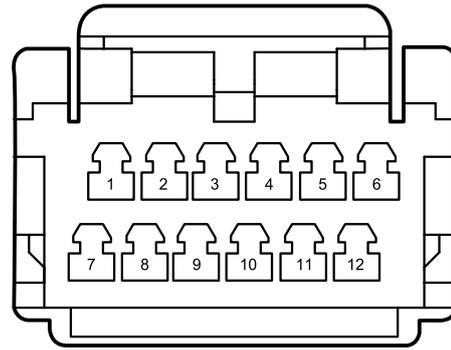
Pin-ning	Functions	Note
1	IG1 power supply	-
2	-	-
3	-	-
4	Steep Descent Slow Descent Switch Indicator Lamp	-
5	ESC OFF switch indicator	-
6	Backlight lamp power supply	-
7	-	-
8	LIN	-
9	B+ power supply	-
10	-	-
11	-	-
12	HDC switch signal	-
13	ESC OFF switch signal	-
14	-	-
15	Ground connection	-
16	B+ power supply	-

IP183c harness connector of head-up display screen



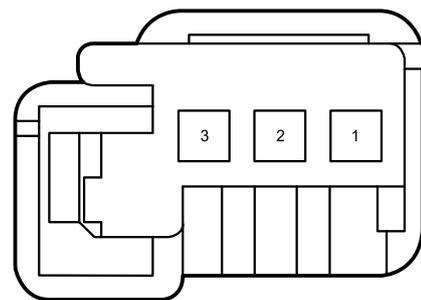
Pin-ning	Functions	Note
1	-	-
2	IF CAN-H	-
3	-	-
4	Ground connection	-
5	-	-
6	IF CAN-L	-
7	-	-
8	B+ power supply	-

IP185 electric gear selector harness connector



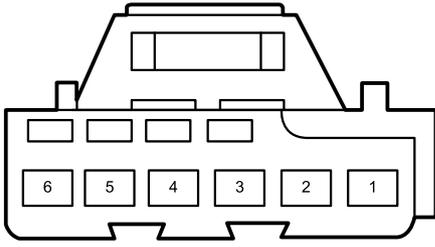
Pin-ning	Functions	Note
1	-	-
2	-	-
3	B+ power supply	-
4	Ground connection	-
5	IG1 power supply	-
6	-	-
7	-	-
8	-	-
9	Shift Signal	-
10	-	-
11	HB CAN-L	-
12	HB CAN-H	-

IP211 Second-row USB socket harness connector



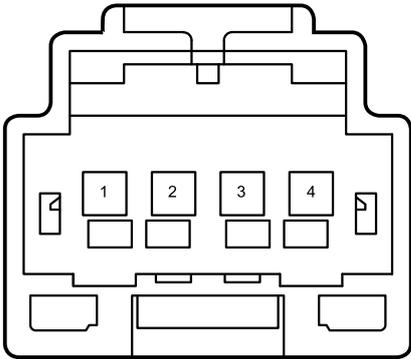
Pin-ning	Functions	Note
1	ACC power supply	-
2	-	-
3	Ground connection	-

IP213 Right temperature actuator harness connector

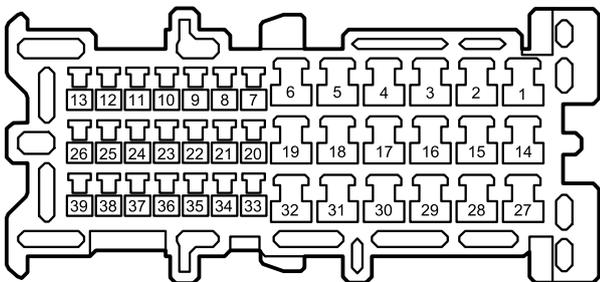


Pin-ning	Functions	Note
1	Sensor grounding	-
2	Feedback signal	-
3	5V power supply	-
4	-	-
5	Motor positive	-
6	Motor negative	-

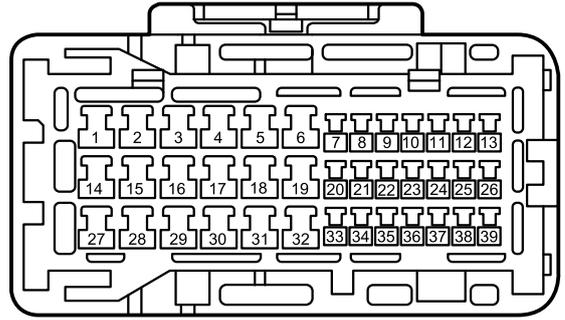
IP214 Instrument Harness -Separated LCD Harness Connector



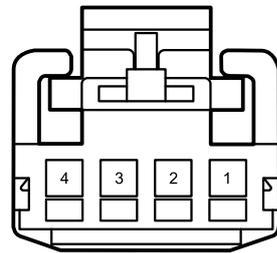
IP243a instrument harness connecting with instrument harness connector 1



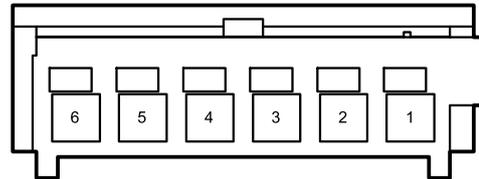
IP250a instrument harness connecting with instrument harness connector 1



IP260 Separated LCD Harness-Instrument Harness Connector

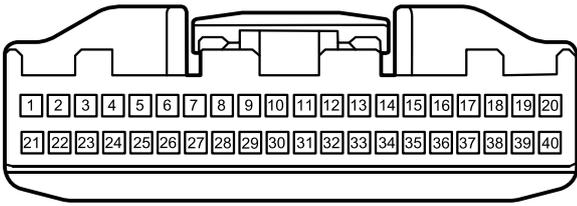


IP261b combination instrument control harness connector 2



Pin-ning	Functions	Note
1	CAN-L	-
2	CAN-H	-
3	-	-
4	-	-
5	Instrument Display Screen Grounding	-
6	Instrument Display Screen Power Supply	-

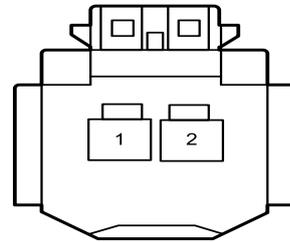
IP268a E-CALL harness connector



Pin-ning	Functions	Note
1	IG1 power supply	-
2	-	-
3	-	-
4	-	-
5	-	-
6	Microphone positive	-
7	-	-
8	-	-
9	Loudspeaker positive	-
10	SOS Switch Grounding	-
11	Collision signal output	-
12	SOS indicator	-
13	-	-
14	-	-
15	-	-
16	-	-
17	-	-
18	-	-
19	IF CAN-H	-
20	B+ power supply	-
21	-	-
22	-	-
23	-	-
24	-	-
25	-	-
26	Microphone negative	-
27	-	-
28	-	-
29	Loudspeaker negative	-
30	SOS switch signal	-
31	-	-

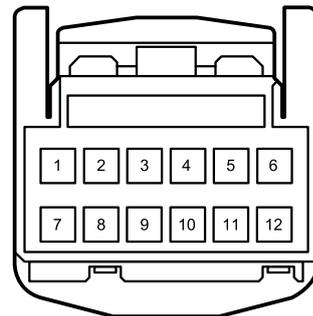
Pin-ning	Functions	Note
32	Silence Signal	-
33	-	-
34	SOS Indicator power supply	-
35	-	-
36	-	-
37	-	-
38	-	-
39	IF CAN-L	-
40	Ground connection	-

IP280 E-CALL loudspeaker harness connector



Pin-ning	Functions	Note
1	Loudspeaker negative	-
2	Loudspeaker positive	-

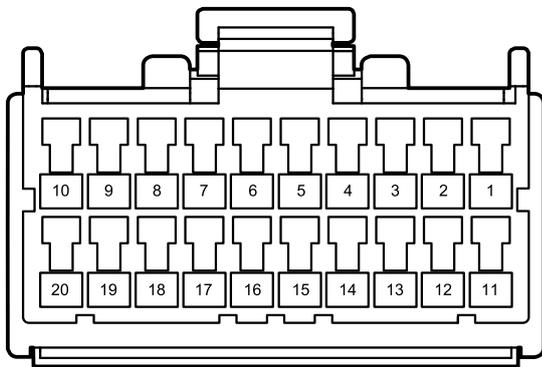
IP297a audio master harness connector D



Pin-ning	Functions	Note
1	-	-
2	-	-
3	AMP PWM Control Output	-
4	-	-

Pin-ning	Functions	Note
5	-	-
6	-	-
7	-	-
8	-	-
9	AMP ACC Control Output	-
10	-	-
11	-	-
12	-	-

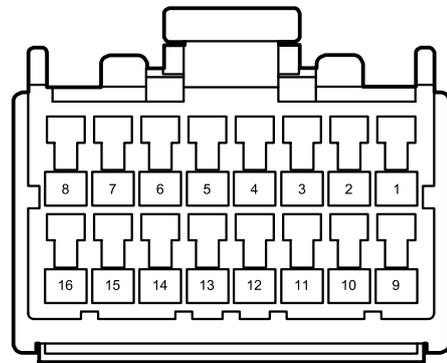
IP349 heat management control module harness connector 3



Pin-ning	Functions	Note
1	Mode damper motor negative	-
2	Mode damper motor positive	-
3	AQS Control Signal	-
4	Heating Water Pump Control Signal	-
5	Right temperature damper motor negative	-
6	Right temperature damper motor positive	-
7	Interior and exterior circulation motor negative	-
8	Interior and exterior circulation motor positive	-
9	-	-
10	-	-
11	Air Door Motor Mode Feedback	-
12	-	-
13	Front Passenger Side Motor Temperature Feedback	-

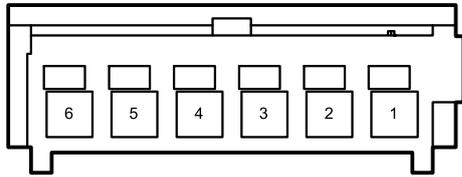
Pin-ning	Functions	Note
14	Evaporation temperature sensor positive	-
15	Left Foot Air Flue Sensor Signal	-
16	Right Foot Air Flue Sensor Signal	-
17	Interior and exterior circulation motor feedback	-
18	Rear blower relay control	-
19	Actuator 5V power supply	-
20	Executor Grounding	-

IP350 heat management control module harness connector 4



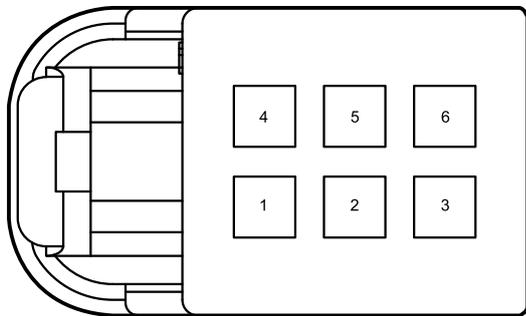
Pin-ning	Functions	Note
1	-	-
2	Temperature Sensor, SunLamp Sensor Grounding	-
3	AC main relay control	-
4	Heat Exchange Solenoid Valve 1 Control Signal	-
5	-	-
6	-	-
7	-	-
8	-	-
9	Ground connection	-
10	Air flue sensor grounding	-
11	Coolant temperature signal	-
12	-	-
13	-	-
14	-	-
15	-	-
16	-	-

IP351 combination instrument display harness connector



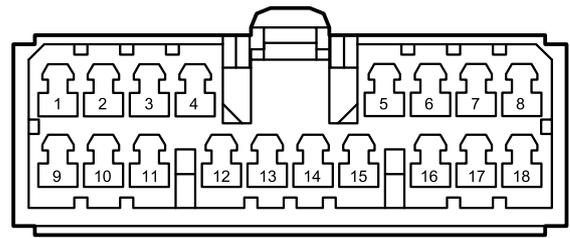
Pin-ning	Functions	Note
1	Power supply	-
2	Ground connection	-
3	-	-
4	-	-
5	CAN-H	-
6	CAN-L	-

IP352 Harness connector of instrument combination switch



Pin-ning	Functions	Note
1	Backlight lamp power supply	-
2	Motor Regulation Signal	-
3	Ground connection	-
4	-	-
5	-	-
6	High Beam Lamp Power Supply Signal Positive	-

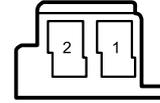
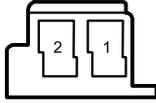
IP353 door handle control module harness connector



Pin-ning	Functions	Note
1	B+ power supply	-
2	Ground connection	-
3	LIN	-
4	-	-
5	Concealed door handle motor negative	-
6	Concealed Door Handle Motor Positive (Excluding Driver Side)	-
7	Left Front Door Concealed Door Handle Motor Positive	-
8	-	-
9	Left Front Door Concealed Door Handle Close Signal	-
10	Left Front Door Concealed Door Handle Cock Signal	-
11	Right Front Door Concealed Door Handle Close Signal	-
12	Right Front Door Concealed Door Handle Cock Signal	-
13	Left Rear Door Concealed Door Handle Close Signal	-
14	Left Rear Door Concealed Door Handle Cock Signal	-
15	Right Rear Door Concealed Door Handle Close Signal	-
16	Right Rear Door Concealed Door Handle Cock Signal	-
17	Concealed Door Handle Indicator Lamp Signal (Excluding Driver Side)	-
18	Left Front Door Concealed Door Handle Indicator Lamp Signal	-

IP363 air flue sensor harness connector 1

IP366 air flue sensor harness connector 4

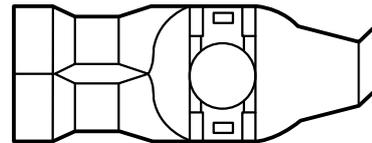
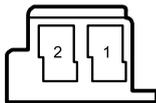


Pin-ning	Functions	Note
1	Sensor positive	-
2	Sensor negative	-

Pin-ning	Functions	Note
1	Sensor positive	-
2	Sensor negative	-

IP364 air flue sensor harness connector 2

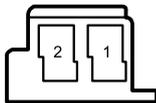
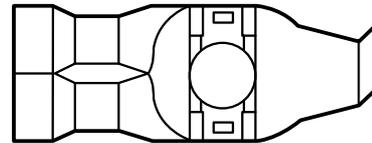
G13



Pin-ning	Functions	Note
1	Sensor positive	-
2	Sensor negative	-

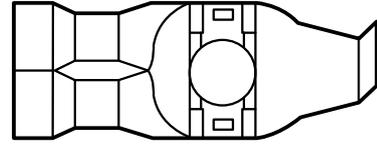
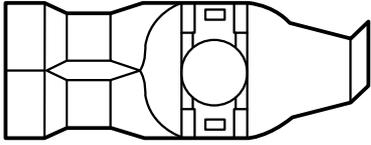
G14

IP365 air flue sensor harness connector 3

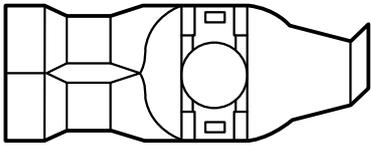


G15

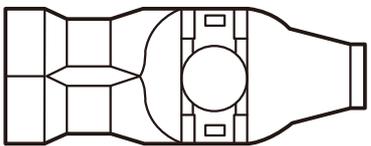
Pin-ning	Functions	Note
1	Sensor positive	-
2	Sensor negative	-



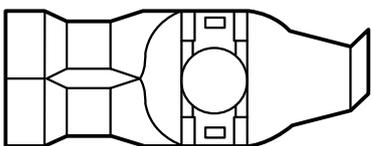
G16



G17

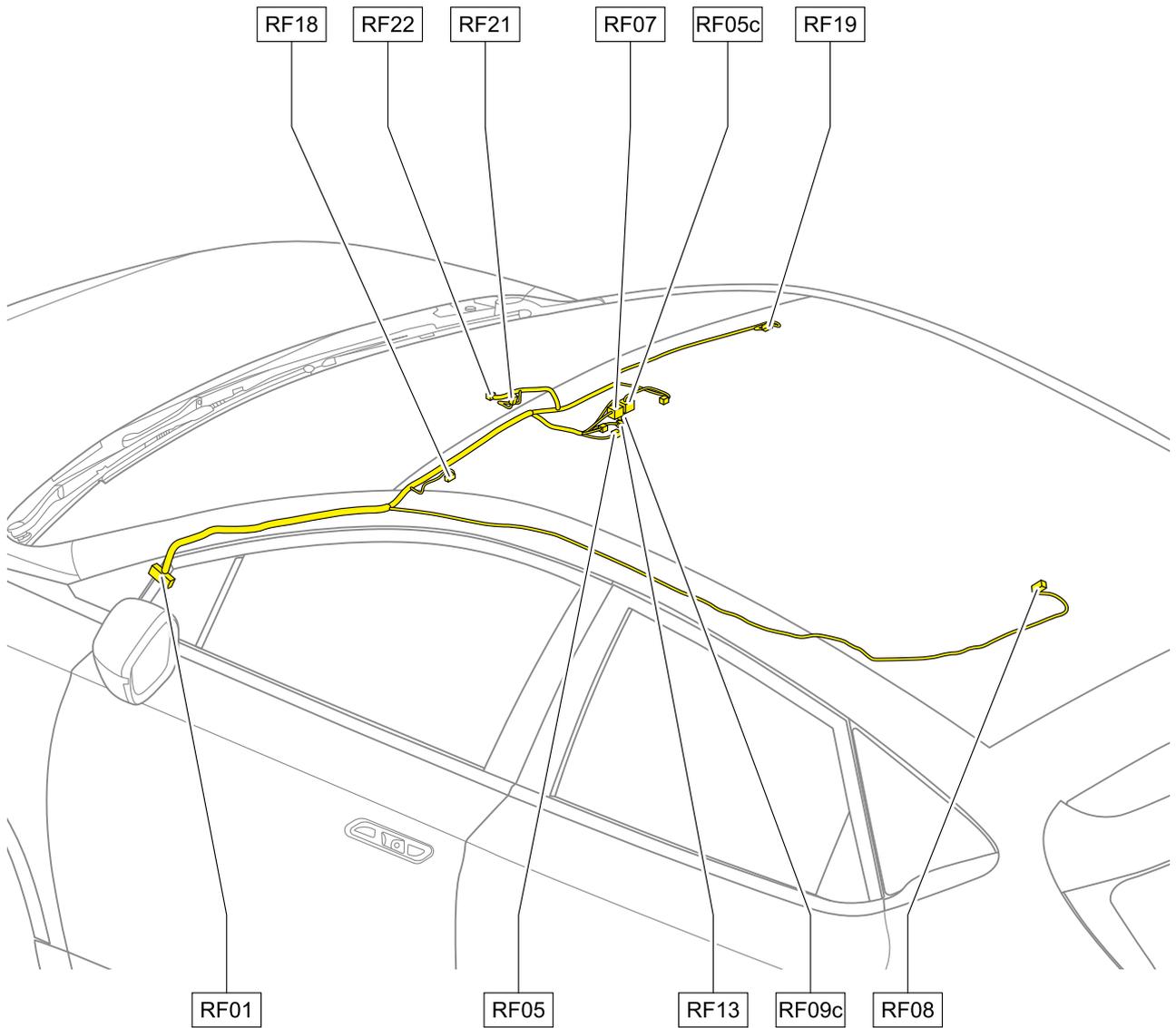


G18



G19

**Roof Wiring Harness Arrangement Diagram**



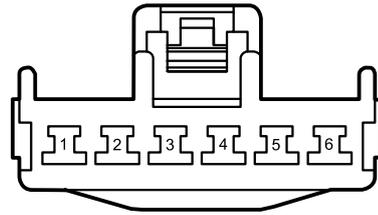
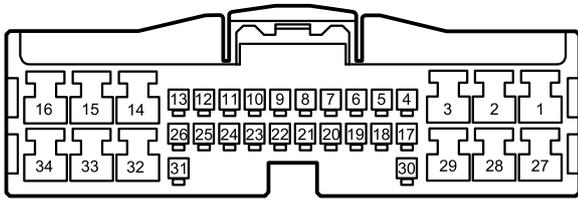
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**Roof Harness Connector List**

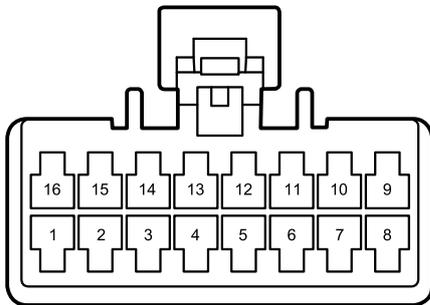
Harness connector	Name	Harness connector	Name
RF01	Roof Harness- Instrument Harness Connector	RF13	Microphone harness connector
RF05	Front reading lamp harness connector	RF18	Driver Side Cosmetic Mirror Lamp Harness Connector
RF05c	Front reading lamp harness connector	RF19	Front Passenger Side Cosmetic Mirror Lamp Harness Connector
RF07	Sunroof control module harness connector	RF21	Electronic Anti-dazzling Rearview Mirror Harness Connector
RF08	Rear Row Reading Lamp Harness Connector	RF22	Front Monocular Camera Harness Connector
RF09c	Sunroof Switch Harness Connector	-	-

## Roof Harness Terminal Definition

### RF01 Roof Harness- Instrument Harness Connector

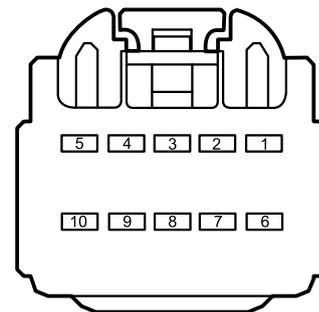


### RF05 Front Reading Lamp Harness Connector



Pin-ning	Functions	Note
1	Backlight lamp power supply	-
2	Front Reading Lamp Power Supply	-
3	Ground connection	-
4	Door control signal	-
5	-	-
6	-	-

### RF07 Sunroof Control Module Harness Connector

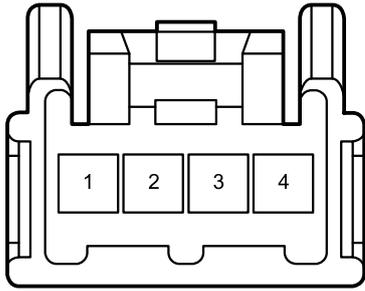


Pin-ning	Functions	Note
1	SOS Switch Grounding	-
2	-	-
3	Door control signal	-
4	Backlight lamp power supply	-
5	-	-
6	-	-
7	-	-
8	Sunshade closing	-
9	Sunshade opening	-
10	-	-
11	SOS Indicator power supply	-
12	SOS indicator	-
13	-	-
14	SOS switch signal	-
15	Ground connection	-
16	Front Reading Lamp Power Supply	-

Pin-ning	Functions	Note
1	Ground connection	-
2	Sunroof opening	-
3	IG1 power supply	-
4	Sunroof closing	-
5	LIN	-
6	B+ power supply	-
7	Sunroof upward	-
8	Ground connection	-
9	-	-
10	-	-

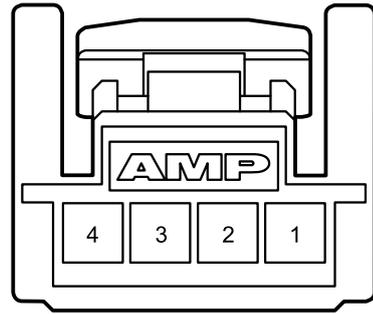
### RF05c Front reading lamp harness connector

### RF08 Rear Row Reading Lamp Harness Connector



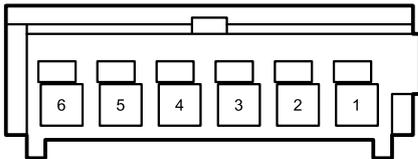
Pin-ning	Functions	Note
1	Door control signal	-
2	Ground connection	-
3	Power supply	-
4	Backlight lamp power supply	-

RF09c Sunroof Switch Harness Connector



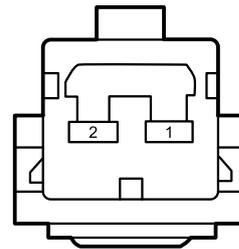
Pin-ning	Functions	Note
1	Microphone 1 positive	-
2	Microphone 1 negative	-
3	Microphone 2 positive	-
4	Microphone 2 negative	-

RF18 Driver Side Cosmetic Mirror Lamp Harness Connector



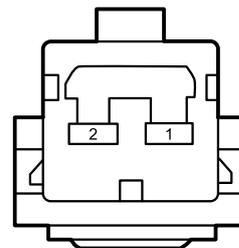
Pin-ning	Functions	Note
1	Ground connection	-
2	Sunroof opening	-
3	Sunroof closing	-
4	Sunroof upward	-
5	SOS switch signal	-
6	SOS Indicator power supply	-

RF13 Microphone Harness Connector



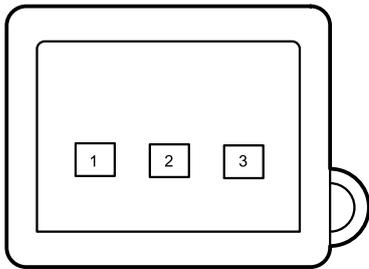
Pin-ning	Functions	Note
1	Ground connection	-
2	Power supply	-

RF19 Front Passenger Side Cosmetic Mirror Lamp Harness Connector



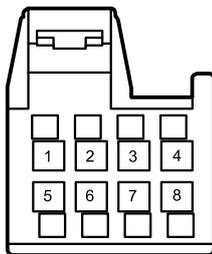
Pin-ning	Functions	Note
1	Ground connection	-
2	Power supply	-

RF21 Electronic Anti-dazzling Rearview Mirror Harness Connector



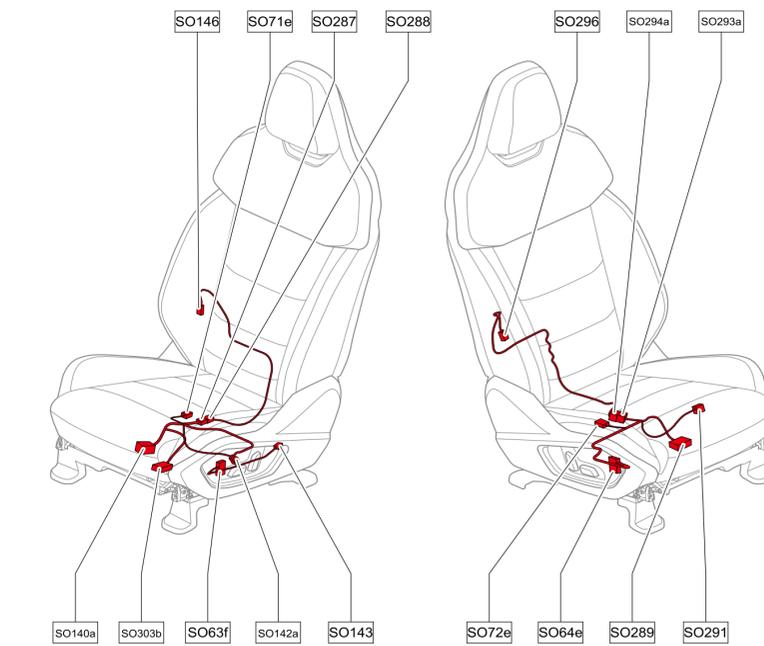
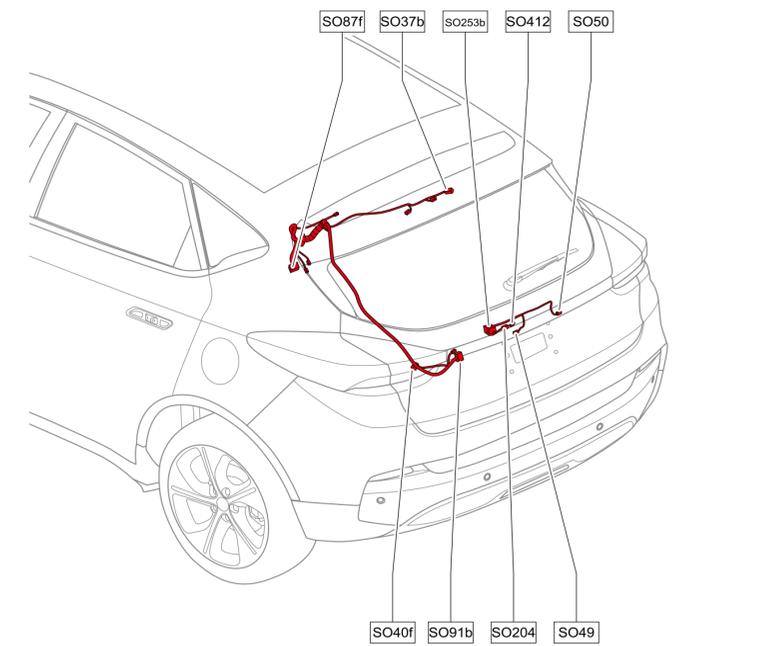
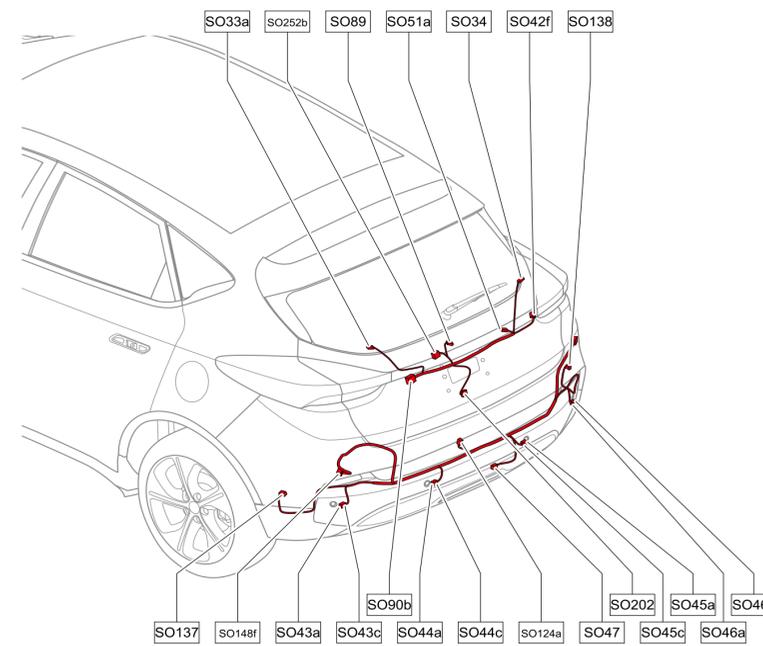
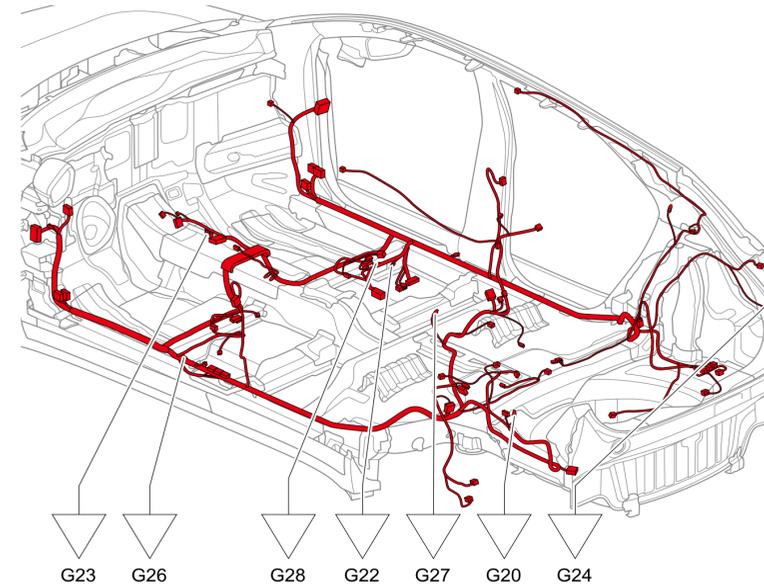
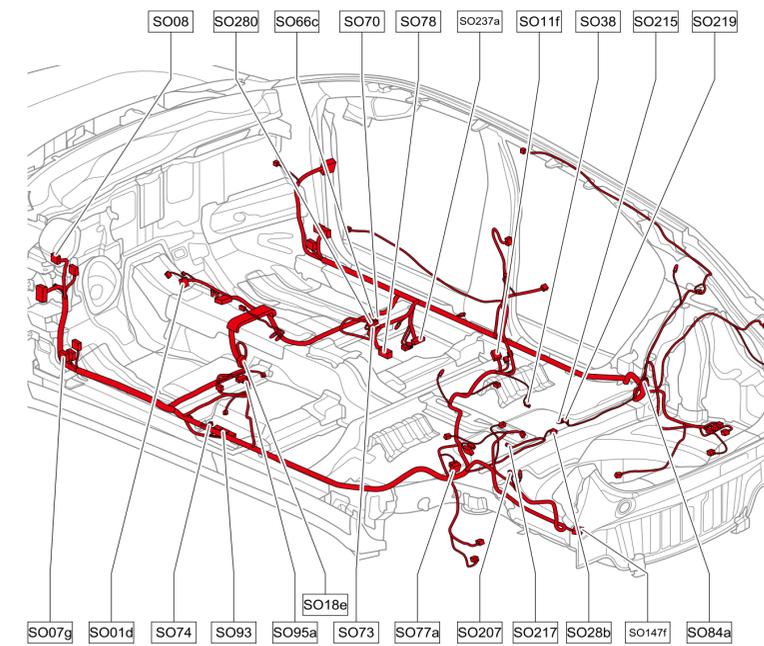
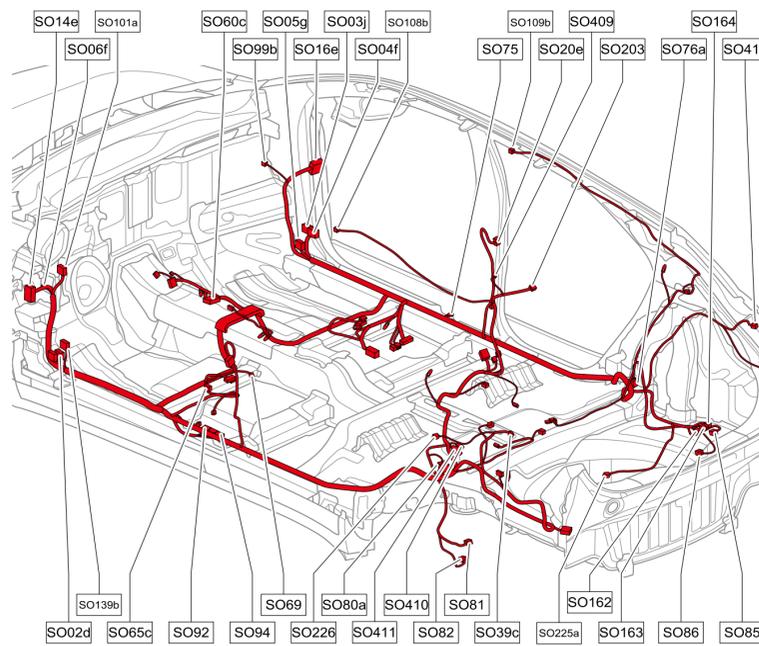
Pin-ning	Functions	Note
1	ACC power supply	-
2	Ground connection	-
3	Anti-dazzling Signal Input	-

RF22 Front Monocular Camera Harness Connector



Pin-ning	Functions	Note
1	Ground connection	-
2	CS CAN-L	-
3	CS CAN-H	-
4	B+ power supply	-
5	Ground connection	-
6	-	-
7	CAN-L	-
8	CAN-H	-

Base Plate Wiring Harness Layout



**Base plate Harness Connector List**

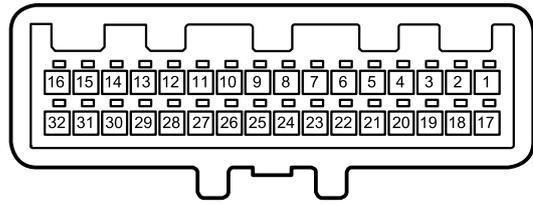
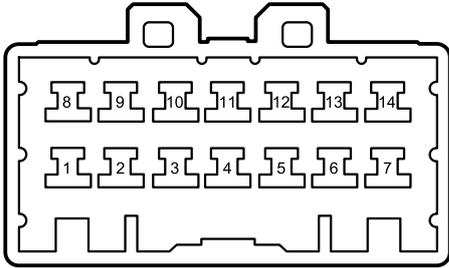
Harness connector	Name	Harness connector	Name
SO01d	Base plate harness connects to instrument harness connector 1	SO85	Right brake caliper motor harness connector
SO02d	Base plate harness connects to instrument harness connector 2	SO86	Right rear wheel speed sensor harness connector
SO03j	Base plate harness connects to instrument harness connector 3	SO87f	Harness connector of rear back door connecting with base plate
SO04f	Base plate harness connects to instrument harness connector 4	SO89	Rear wiper motor harness connector
SO05g	Base plate harness connects to instrument harness connector 5	SO90b	Rear Back Door Harness- Rear Back Door Truncking Harness Connector
SO06f	Base plate harness connects to engine compartment harness connector 1	SO91b	Harness connector of rear back door connecting with backdoor
SO07g	Base plate harness connects to engine compartment harness connector 2	SO92	Seat Module Harness Connector A
SO08	Base plate harness connects to engine compartment harness connector 3	SO93	Seat Module Harness Connector B
SO11f	Harness connector of base plate connecting with backdoor	SO94	Seat Module Harness Connector C
SO14e	Harness connector of base plate connecting with driver seat	SO95a	Base plate harness connects to driver seat harness connector 1
SO16e	Base plate harness connects to front passenger door harness connector	SO99b	PM2.5 sensor harness connector
SO18e	Base plate harness connects to rear left door harness connector	SO101a	Body control module harness connector 7
SO20e	Base plate harness connects to rear right door harness connector	SO108b	Left side air curtain harness connector
SO28b	Rear antenna harness connector	SO109b	Right side air curtain harness connector
SO33a	Rear defogger harness connector (positive)	SO124a	PEPS Induction Coil Harness Connector
SO34	Rear defogger harness connector (negative)	SO137	Left Rear Dead Zone Probe Harness Connector
SO37b	Top digit brake lamp harness connector	SO138	Right Rear Dead Zone Probe Harness Connector
SO38	Trunk lamp harness connector	SO139b	Base plate harness connects to instrument harness connector 6
SO39c	RL combination lamp harness connector A	SO140a	Driver seat harness connects to base plate harness connector
SO40f	RL combination lamp harness connector B	SO142a	Driver seat sliding chute motor harness connector
SO41c	RR combination lamp harness connector A	SO143	Driver seat lifting motor harness connector

Harness connector	Name	Harness connector	Name
SO42f	RR combination lamp harness connector B	SO146	Driver seat recliner motor harness connector
SO43a	Rear left parking sensor probe harness connector	SO147f	Base plate harness connects to rear bumper harness connector
SO43c	Rear left parking sensor probe harness connector	SO148f	Rear bumper harness connects to base plate harness connector
SO44a	Left, central and rear reverse radar probe harness connector	SO162	Power amplifier harness connector A
SO44c	Left, central and rear reverse radar probe harness connector	SO163	Power amplifier harness connector B
SO45a	Rear middle parking sensor probe harness connector RH	SO164	Power amplifier harness connector C
SO45c	Rear middle parking sensor probe harness connector RH	SO202	Backdoor lock motor harness connector
SO46a	Rear right parking sensor probe harness connector	SO203	Sunshade Module Harness Connector
SO46c	Rear right parking sensor probe harness connector	SO204	Rear back door micro switch harness connector
SO47	Rear fog lamp harness connector	SO207	Electrocar communication control module harness connector
SO49	Left rear license plate lamp harness connector	SO215	Right middle seat belt buckle harness connector
SO50	Right rear license plate lamp harness connector	SO217	Left rear seat belt buckle harness connector
SO51a	Rear camera harness connector	SO219	Right rear seat belt buckle harness connector
SO60c	Harness connector of airbag control module A	SO225a	Woofers harness connector
SO63f	Adjustment switch harness connector of the driver seat	SO226	Rear Charging Covering Cap Motor Harness Connector
SO64e	Adjustment switch harness connector of the front passenger seat	SO237a	Automatic Parking Module Harness Connector 1
SO65c	Driver seat airbag harness connector	SO252b	Rear Back Door Harness- License Plate Lamp Harness Connector
SO66c	Front passenger airbag harness connector	SO253b	License plate lamp harness connects to backdoor harness connector
SO69	Driver's seat belt buckle harness connector	SO280	Base plate harness connects to front passenger seat harness connector
SO70	Front passenger seat belt buckle harness connector	SO287	Driver seat harness connects to driver back harness connector
SO71e	Driver Seat Heating Harness Connector	SO288	Driver back harness connects to driver seat harness connector

Harness connector	Name	Harness connector	Name
SO72e	Front Passenger Seat Heating Harness Connector	SO289	Front passenger seat harness connects to base plate harness connector
SO73	Harness connector of testing switch at front passenger side	SO291	Front passenger seat sliding chute motor harness connector
SO74	Left side collision sensor harness connector	SO293a	Front passenger seat harness connects to front passenger back harness connector
SO75	Right side collision sensor harness connector	SO294a	Front passenger back harness connects to front passenger seat harness connector
SO76a	Base plate harness connects to right EPB caliper harness connector	SO296	Front passenger seat recliner motor harness connector
SO77a	Base plate harness connects to left EPB caliper harness connector	SO303b	Driver Seat Heating Module Harness Connector
SO78	EPB controller harness connector	SO409	RF Receiving Module Harness Connector
SO80a	Left EPB caliper harness connects to base plate harness connector	SO410	-Charging Socket Harness Connector 2
SO81	Left brake caliper motor harness connector	SO411	-Charging Socket Harness Connector 1
SO82	Right left speed sensor harness connector	SO412	Running Through Lamp Harness Connector
SO84a	Right EPB caliper harness connects to base plate harness connector	-	-

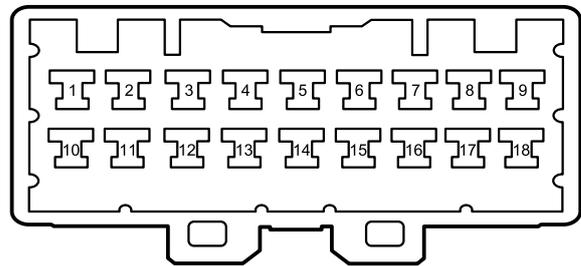
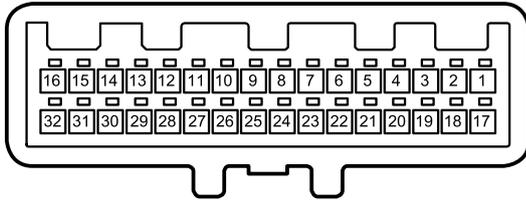
## Base Plate Harness Terminal Definition

SO01d Base plate harness connects to instrument harness connector 1



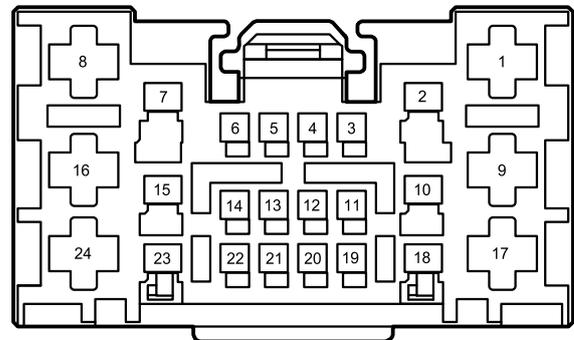
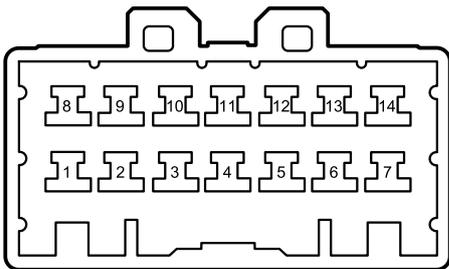
SO05g Base plate harness connects to instrument harness connector 5

SO02d Base plate harness connects to instrument harness connector 2



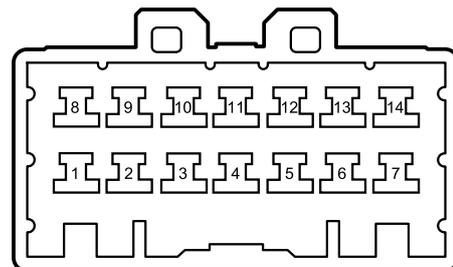
SO06f Base plate harness connects to engine compartment harness connector 1

SO03j Base plate harness connects to instrument harness connector 3

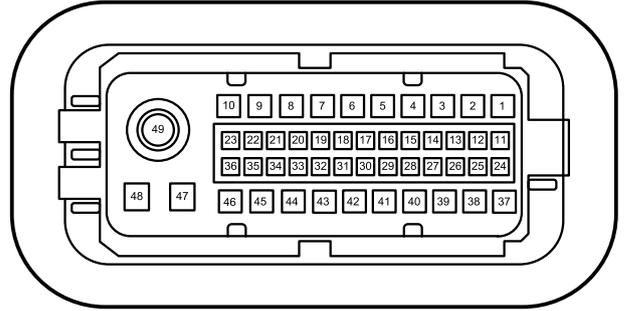
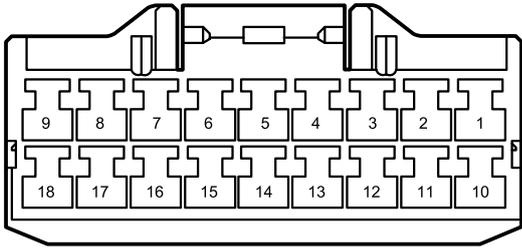


SO07g Base plate harness connects to engine compartment harness connector 2

SO04f Base plate harness connects to instrument harness connector 4

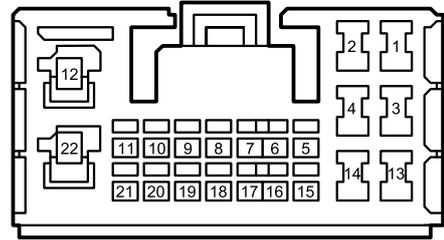
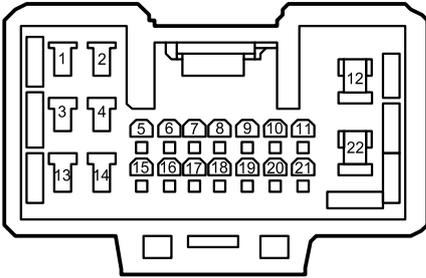


SO08 Base plate harness connects to engine compartment harness connector 3



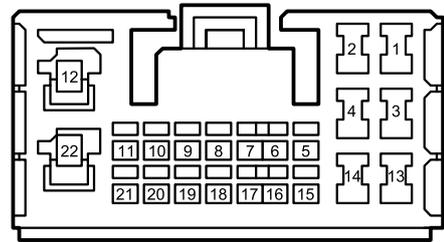
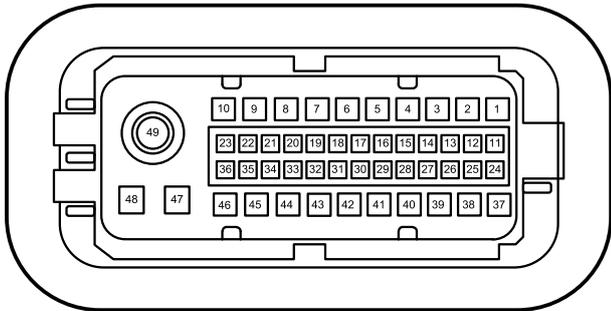
SO18e Base plate harness connects to rear left door harness connector

SO11f Base plate harness connects to backdoor sub-harness connector



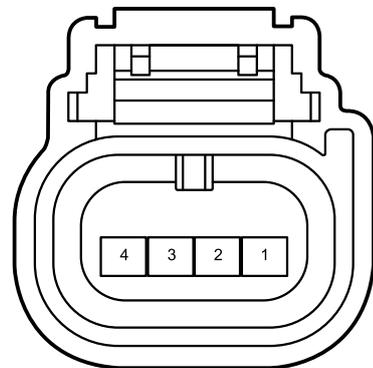
SO20e Base plate harness connects to rear right door harness connector

SO14e Base plate harness connects to driver door harness connector



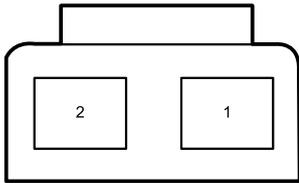
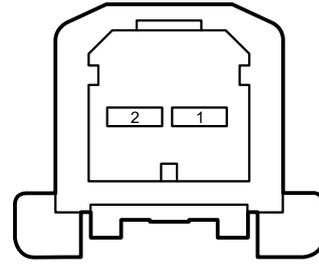
SO28b harness connector of rear antenna

SO16e Base plate harness connects to front passenger door harness connector



Pin-ning	Functions	Note
1	Antenna positive	-
2	Antenna negative	-
3	-	-
4	-	-

SO33a rear defogger harness connector (positive)

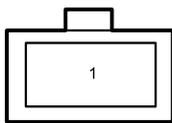
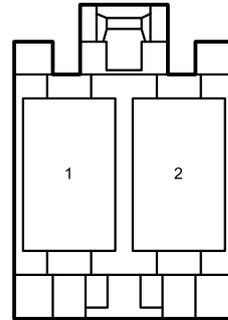


Pin-ning	Functions	Note
1	Ground connection	-
2	Power supply	-

SO38 rear compartment lamp harness connector

Pin-ning	Functions	Note
1	Rear defroster positive	-
2	Rear defroster negative	-

SO34 rear defogger harness connector (negative)

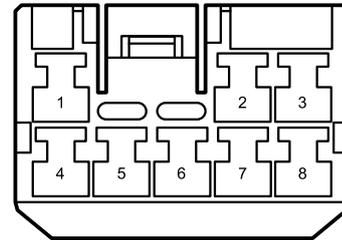


Pin-ning	Functions	Note
1	Power supply	-
2	Ground connection	-

SO39c RL combination lamp harness connector A

Pin-ning	Functions	Note
1	Heating Strip Grounding	-

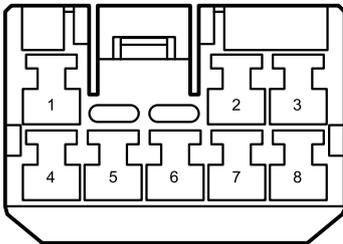
SO37b High mount brake lamp harness connector



Pin-ning	Functions	Note
1	Ground connection	-
2	Brake Turn Low Lamp Enable Signal	-

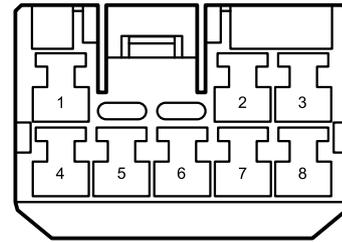
Pin-ning	Functions	Note
3	Turn signal dynamic lighting signal	-
4	Power supply of position lamp (body side)	-
5	Power supply of brake lamp (body side)	-
6	Turn signal power supply (body side)	-
7	Turn signal fault feedback (body side)	-
8	Guest Receiving Signal	-

SO40f RL combination lamp harness connector B



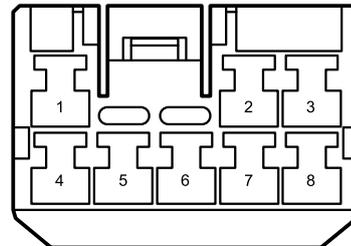
Pin-ning	Functions	Note
1	Ground connection	-
2	-	-
3	Turn signal dynamic lighting signal	-
4	Power supply of position lamp (backdoor side)	-
5	Backup Lamp Power Supply (Rear Back Door Side)	-
6	Turn signal power supply (backdoor side)	-
7	Turn signal fault feedback (backdoor side)	-
8	Guest Receiving Signal	-

SO41c RR combination lamp harness connector A



Pin-ning	Functions	Note
1	Ground connection	-
2	Brake Turn Low Lamp Enable Signal	-
3	Turn signal dynamic lighting signal	-
4	Power supply of position lamp (body side)	-
5	Power supply of brake lamp (body side)	-
6	Turn signal power supply (body side)	-
7	Turn signal fault feedback (body side)	-
8	Guest Receiving Signal	-

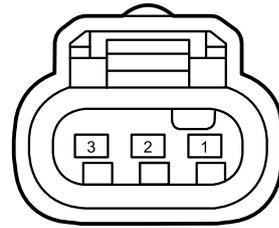
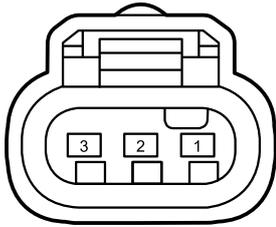
SO42f Rear right lamp harness connector B



Pin-ning	Functions	Note
1	Ground connection	-
2	-	-
3	Turn signal dynamic lighting signal	-
4	Power supply of position lamp (backdoor side)	-
5	Backup Lamp Power Supply (Rear Back Door Side)	-
6	Turn signal power supply (backdoor side)	-

Pin-ning	Functions	Note
7	Turn signal fault feedback (backdoor side)	-
8	Guest Receiving Signal	-

SO43a rear left reverse radar probe harness connector

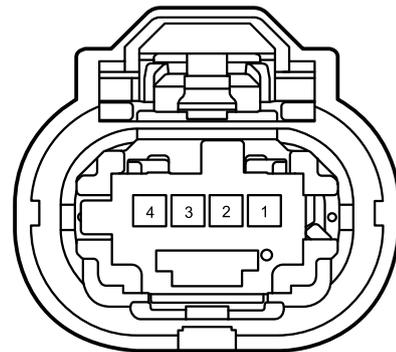
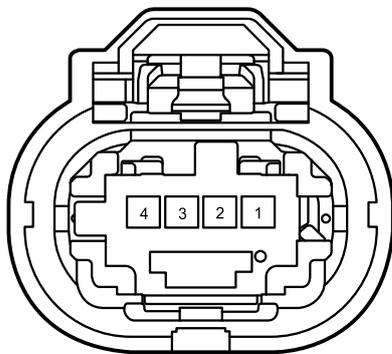


Pin-ning	Functions	Note
1	Power supply	-
2	Signal	-
3	Ground connection	-

SO44c left, central and rear reverse radar probe harness connector

Pin-ning	Functions	Note
1	Power supply	-
2	Signal	-
3	Ground connection	-

SO43c rear left reverse radar probe harness connector

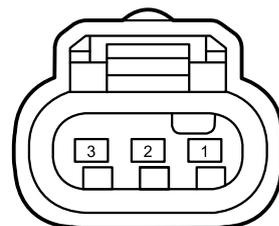


Pin-ning	Functions	Note
1	Ground connection	-
2	Radar Probe ID	-
3	LIN	-
4	Power supply	-

SO45a right, central and rear reverse radar probe harness connector

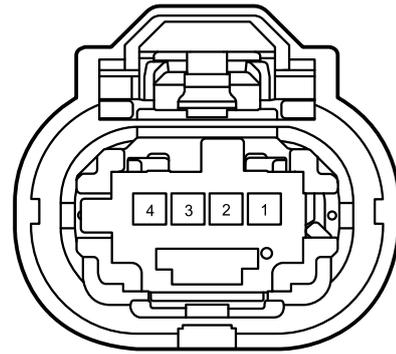
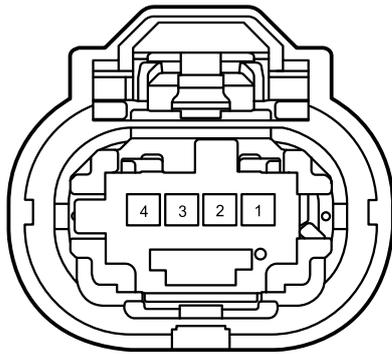
Pin-ning	Functions	Note
1	Ground connection	-
2	Radar Probe ID	-
3	LIN	-
4	Power supply	-

SO44a left, central and rear reverse radar probe harness connector



Pin-ning	Functions	Note
1	Power supply	-
2	Signal	-
3	Ground connection	-

SO45c right, central and rear reverse radar probe harness connector

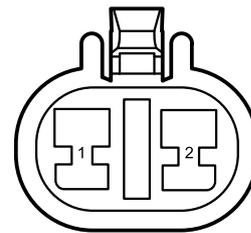
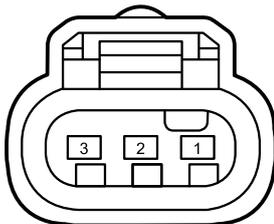


Pin-ning	Functions	Note
1	Ground connection	-
2	-	-
3	LIN	-
4	Power supply	-

SO47 rear fog lamp harness connector

Pin-ning	Functions	Note
1	Ground connection	-
2	Radar Probe ID	-
3	LIN	-
4	Power supply	-

SO46a rear right reverse radar probe harness connector

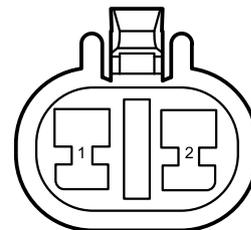


Pin-ning	Functions	Note
1	Ground connection	-
2	Power supply	-

SO49 Rear left license plate lamp harness connector

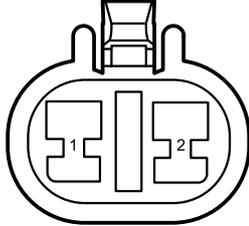
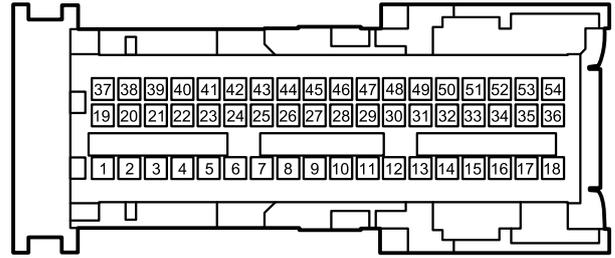
Pin-ning	Functions	Note
1	Power supply	-
2	Signal	-
3	Ground connection	-

SO46c rear right reverse radar probe harness connector



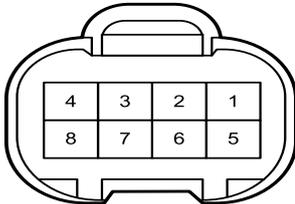
Pin-ning	Functions	Note
1	Ground connection	-
2	Power supply	-

SO50 Rear right license plate lamp harness connector



Pin-ning	Functions	Note
1	Ground connection	-
2	Power supply	-

SO51a rear camera harness connector



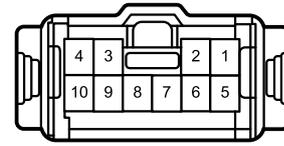
Pin-ning	Functions	Note
1	-	-
2	Power supply	-
3	Ground connection	-
4	-	-
5	-	-
6	Video signal positive	-
7	Video signal negative	-
8	-	-

SO60c airbag control module harness connector A

Pin-ning	Functions	Note
1	-	-
2	CS CAN-H	-
3	CS CAN-L	-
4	Driver front airbag signal positive	-
5	Driver front airbag signal negative	-
6	Front passenger testing switch signal positive	-
7	-	-
8	Positive front passenger belt buckle signal	-
9	Positive driver belt buckle signal	-
10	Collision signal output	-
11	Safety Belt Buckle, Front Passenger Detection Switch Signal Negative	-
12	FL frontal impact sensor positive	-
13	FL frontal impact sensor negative	-
14	FR frontal impact sensor negative	-
15	FR frontal impact sensor positive	-
16	Front passenger front airbag signal negative	-
17	-	-
18	Ground connection	-
19	-	-
20	Positive left curtain airbag signal	-
21	Negative left curtain airbag signal	-
22	Driver side airbag signal negative	-
23	Driver side airbag signal positive	-
24	Right- Middle Side Safety Belt Buckle Switch Signal Positive	-
25	Left Rear Safety Belt Buckle Switch Signal Positive	-

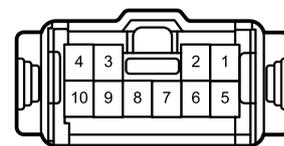
Pin-ning	Functions	Note
26	-	-
27	Right Rear Safety Belt Buckle Switch Signal Positive	-
28	-	-
29	-	-
30	Right side impact sensor positive	-
31	Right side impact sensor negative	-
32	Left side impact sensor negative	-
33	Left side impact sensor positive	-
34	Front passenger front airbag signal positive	-
35	-	-
36	IG1 power supply	-
37	-	-
38	-	-
39	-	-
40	-	-
41	-	-
42	-	-
43	-	-
44	-	-
45	-	-
46	-	-
47	-	-
48	-	-
49	-	-
50	-	-
51	Front passenger side airbag negative	-
52	Front passenger side airbag positive	-
53	Positive right curtain airbag signal	-
54	Negative right curtain airbag signal	-

SO63f harness connector of driver seat adjusting switch



Pin-ning	Functions	Note
1	-	-
2	Driver Seat Lifting Motor Descend	-
3	Ground connection	-
4	ALT power supply	-
5	-	-
6	Driver Seat Slide Motor Forward /Switch Grounding (Memory)	-
7	Driver Seat Angle Adjuster Motor Forward /Horizontal Adjusting Switch (Memory)	-
8	Driver Seat Angle Adjuster Motor Backward /Lifting Adjusting Switch (Memory)	-
9	Driver Seat Lifting Motor Lifting /Backrest Adjusting Switch (Memory)	-
10	Driver seat slide motor backwards	-

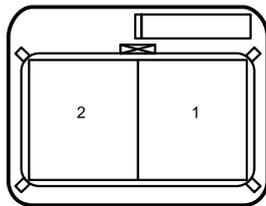
SO64e harness connector of adjusting switch of front passenger seat



Pin-ning	Functions	Note
1	ALT power supply	-
2	-	-
3	-	-

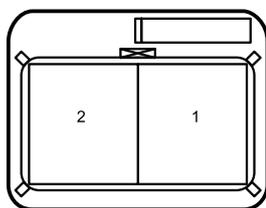
Pin-ning	Functions	Note
4	Ground connection	-
5	Angle adjuster motor of front passenger seat forward	-
6	Angle adjuster motor of front passenger seat backwards	-
7	-	-
8	-	-
9	Slide motor of front passenger seat forward	-
10	Slide motor of front passenger seat backwards	-

SO65c harness connector of driver seat airbag



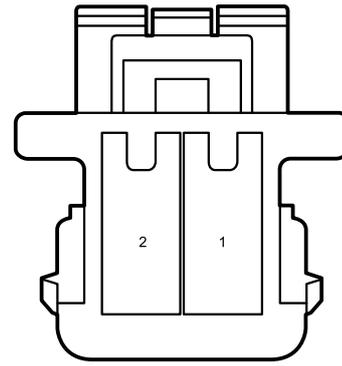
Pin-ning	Functions	Note
1	Signal positive	-
2	Signal negative	-

SO66c harness connector of front passenger seat airbag



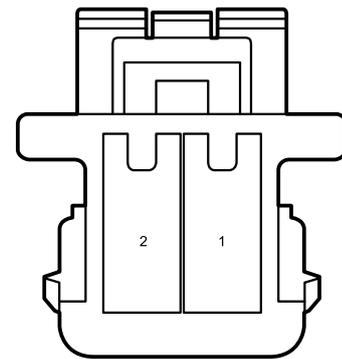
Pin-ning	Functions	Note
1	Signal positive	-
2	Signal negative	-

SO69 harness connector of driver seat belt buckle



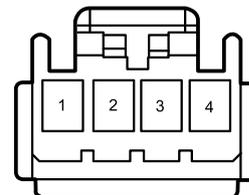
Pin-ning	Functions	Note
1	Signal	-
2	Ground connection	-

SO70 harness connector of front passenger seat belt buckle



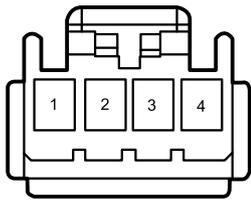
Pin-ning	Functions	Note
1	Signal	-
2	Ground connection	-

SO71e heating harness connector of driver seat



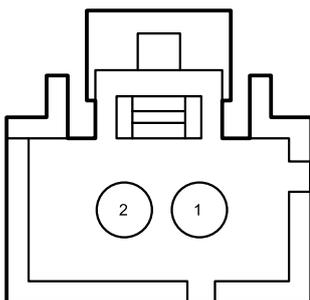
Pin-ning	Functions	Note
1	Power supply	-
2	Sensor positive	-
3	Sensor negative	-
4	Ground connection	-

S072e heating harness connector of front passenger seat



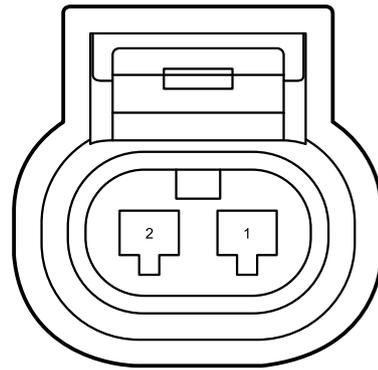
Pin-ning	Functions	Note
1	Power supply	-
2	Sensor positive	-
3	Sensor negative	-
4	Ground connection	-

S073 harness connector of front passenger detector switch



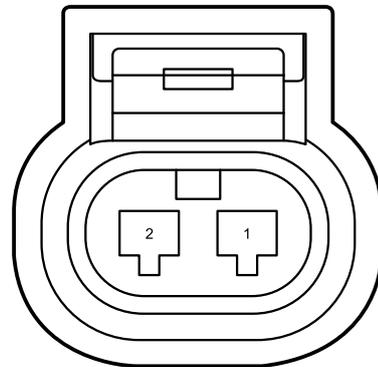
Pin-ning	Functions	Note
1	Signal positive	-
2	Signal negative	-

S074 harness connector of left impact sensor



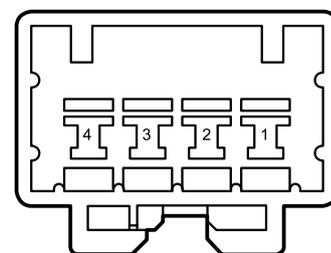
Pin-ning	Functions	Note
1	Signal positive	-
2	Signal negative	-

S075 harness connector of right impact sensor

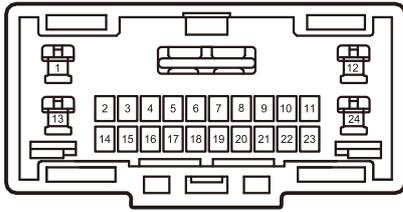


Pin-ning	Functions	Note
1	Signal positive	-
2	Signal negative	-

S076a Base plate harness connects to right EPB caliper harness connector

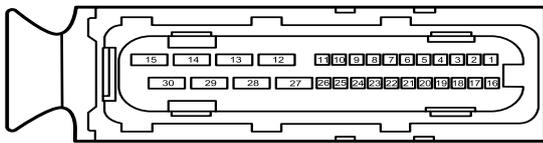


S077a Base plate harness connects to left EPB caliper harness connector



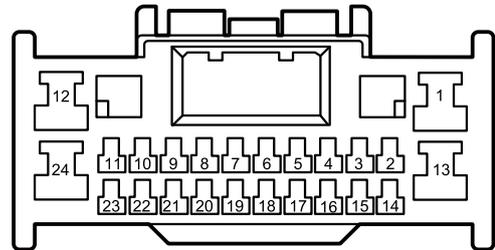
SO78 EPB controller harness connector

Pin-ning	Functions	Note
22	IG1 power supply	-
23	-	-
24	-	-
25	-	-
26	-	-
27	Right brake caliper motor negative	-
28	Ground connection	-
29	Left brake caliper motor negative	-
30	Ground connection	-

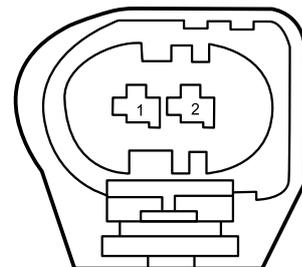


SO80a Left EPB caliper harness connects to base plate harness connector

Pin-ning	Functions	Note
1	-	-
2	-	-
3	-	-
4	-	-
5	-	-
6	Private CAN-H	-
7	Private CAN-L	-
8	-	-
9	EPB-applied signal input	-
10	EPB-applied signal output	-
11	IG1 power supply	-
12	Right brake caliper motor positive	-
13	B+ Power supply	-
14	Left brake caliper motor positive	-
15	B+ Power supply	-
16	CS CAN-H	-
17	CS CAN-L	-
18	EPB release signal input	-
19	EPB release signal output	-
20	-	-
21	-	-

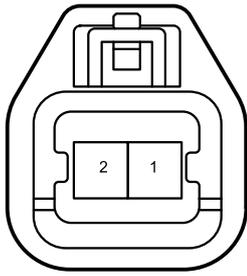


SO81 harness connector of left brake caliper motor



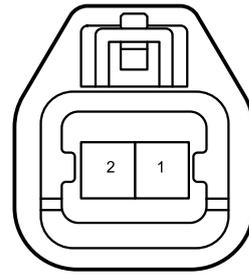
Pin-ning	Functions	Note
1	Motor negative	-
2	Motor positive	-

SO82 harness connector of left rear wheel speed sensor



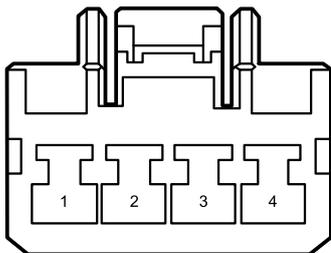
Pin-ning	Functions	Note
1	Signal positive	-
2	Signal negative	-

SO84a Right EPB caliper harness connects to base plate harness connector

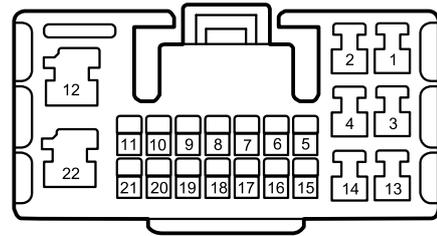


Pin-ning	Functions	Note
1	Signal positive	-
2	Signal negative	-

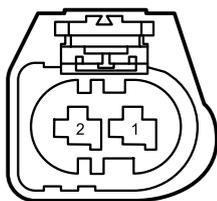
SO87f harness connector of rear back door branching connecting to the baseplate harness



SO85 harness connector of right brake caliper motor

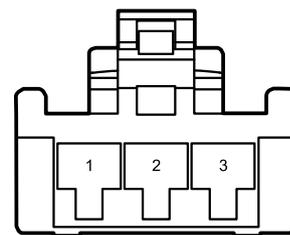


SO89 harness connector of rear wiper motor



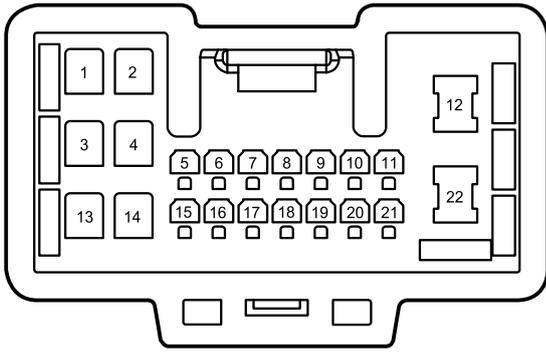
Pin-ning	Functions	Note
1	Motor negative	-
2	Motor positive	-

SO86 harness connector of right rear wheel speed sensor

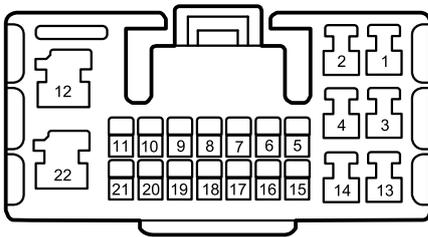


Pin-ning	Functions	Note
1	Reset signal	-
2	Motor positive	-
3	Motor negative	-

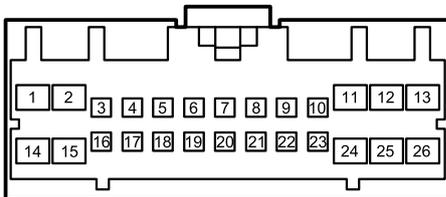
SO90b Rear Back Door Harness -Rear Back Door Trunking Harness Connector



SO91b harness connector of rear back door branching connecting to the baseplate harness



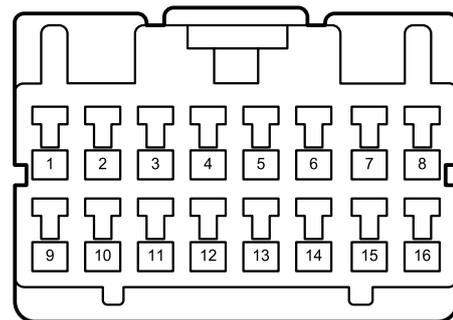
SO92 harness connector A of seat module



Pin-ning	Functions	Note
1	Driver Seat Lifting Motor, Angle Adjuster Motor Public Terminal	-
2	Backrest adjusting power supply	-
3	-	-
4	-	-
5	-	-
6	Driver Seat Angle Adjuster Motor Hall Sensor Signal	-
7	-	-
8	Driver Seat Lifting Motor Hall Sensor Signal	-

Pin-ning	Functions	Note
9	Driver Seat Slide Motor Hall Sensor Signal	-
10	IG1 power supply	-
11	Driver Seat Lifting Regulation Signal	-
12	Driver Seat Horizontal Regulation Signal	-
13	-	-
14	Driver Seat Backrest Regulation Signal	-
15	Ground connection	-
16	-	-
17	-	-
18	-	-
19	-	-
20	-	-
21	Hall sensor grounding	-
22	-	-
23	-	-
24	Ground connection	-
25	Seat Horizontal, Lifting Regulation Power Supply	-
26	Public terminal of the driver seat slide motor	-

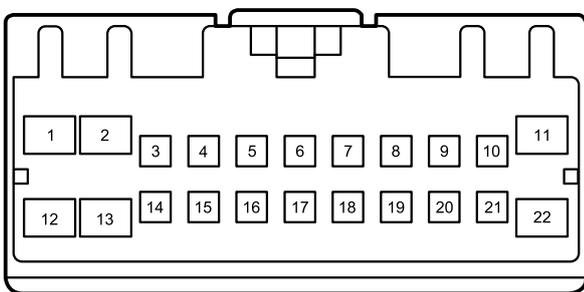
SO93 harness connector B of seat module



Pin-ning	Functions	Note
1	CF CAN-L	-
2	CF CAN-H	-
3	Driver Side External Rearview Mirror Up-Down Position Signal	-

Pin-ning	Functions	Note
4	Front Passenger Side External Rearview Mirror Left Right Position Signal	-
5	Up-down adjustable driver side external rear view mirrors	-
6	Up-down adjustable front passenger side external rearview mirror	-
7	Driver Side External Rearview Mirror Left Right Regulation Motor	-
8	External Rearview Mirror Sensor Power Supply	-
9	-	-
10	-	-
11	Driver Side External Rearview Mirror Left Right Position Signal	-
12	Front Passenger Side External Rearview Mirror Up-Down Position Signal	-
13	Common terminal of driver side external rearview mirror motor	-
14	Front Passenger Side External Rearview Mirror Left Right Regulation Motor	-
15	Common terminal of front passenger side external rearview mirror motor	-
16	External rearview mirror sensor grounding	-

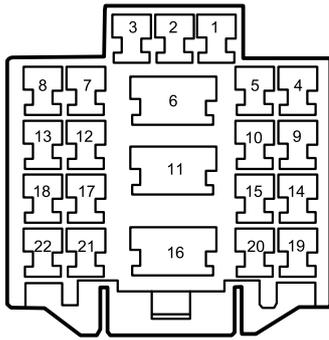
SO94 harness connector C of seat module



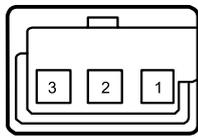
Pin-ning	Functions	Note
1	Driver Seat Heating Power Supply	-
2	Front Passenger Seat Heating Power Supply	-

Pin-ning	Functions	Note
3	-	-
4	Driver Seat Heating Sensor Positive	-
5	Front Passenger Seat Heating Sensor Positive	-
6	Front Passenger Side External Rearview Mirror Left Right Regulation Signal	-
7	Driver Seat Lifting Motor Adjusting Switch Signal	-
8	Driver Seat Slide Motor Adjusting Switch Signal	-
9	Driver Seat Angle Adjuster Motor Adjusting Switch Signal	-
10	-	-
11	Driver Seat Adjusting Switch, Heating Sensor Grounding	-
12	Seat heater power supply	-
13	-	-
14	Common terminal of external rearview mirror adjustment	-
15	Driver Side External Rearview Mirror Left Right Regulation Signal	-
16	-	-
17	-	-
18	-	-
19	-	-
20	Up-down adjustable front passenger side external rearview mirror	-
21	Up-down adjustable driver side external rearview mirrors	-
22	Ground connection	-

SO95a harness connector 1 of base plate connecting with driver seat

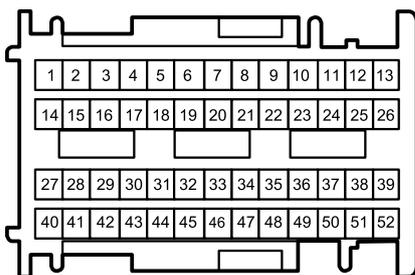


SO99b PM2.5 sensor harness connector



Pin-ning	Functions	Note
1	IG1 power supply	-
2	Ground connection	-
3	LIN	-

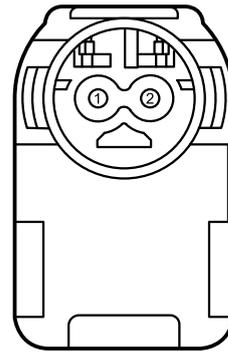
SO101a Body control module harness connector 7



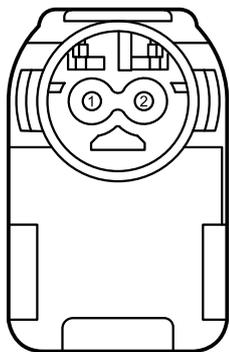
Pin-ning	Functions	Note
1	-	-
2	-	-
3	-	-
4	External rearview folding switch signal	-
5	-	-
6	Backdoor courtesy switch signal	-

Pin-ning	Functions	Note
7	Turn signal fault feedback (tail lamp at body side)	-
8	Front wiper blade washer switch signal	-
9	Door lock state switch (except driver side)	-
10	-	-
11	Middle antenna negative	-
12	PEPS Induction Coil Negative	-
13	Front Passenger Side Door Handle Sensor Negative	-
14	Front passenger side window regulating signal	-
15	Rear right window regulating signal	-
16	-	-
17	-	-
18	-	-
19	RR door control switch signal	-
20	Driver Door Lock Status Switch Signal	-
21	Turn signal fault feedback (combination lamp at backdoor side)	-
22	RL door control switch signal	-
23	Front wiper low speed, inching and reset switch signal	-
24	Middle antenna positive	-
25	PEPS Induction Coil Positive	-
26	Front Passenger Side Door Handle Sensor Positive	-
27	Start Switch (Switch 1)	-
28	Cruising Switch Setting Signal	-
29	Backdoor of microswitch signal	-
30	Central unlocking/locking switch signal	-
31	Switch common terminal grounding	-
32	-	-
33	-	-
34	Rear left window regulating signal	-
35	Courtesy switch signal at drive side	-
36	Window locking switch signal	-
37	Rear antenna positive	-

Pin-ning	Functions	Note
38	Driver side door handle sensor positive	-
39	Front antenna - positive	-
40	Start Switch (Switch 2)	-
41	Intermittent time adjustment switch positive	-
42	Cruise switch signal	-
43	Left Front Door Concealed Door Handle Sensor Signal	-
44	-	-
45	-	-
46	-	-
47	Courtesy switch signal at front passenger side	-
48	-	-
49	-	-
50	Rear antenna negative	-
51	Driver side door handle sensor negative	-
52	Front antenna - negative	-



SO108b harness connector of left gas curtain

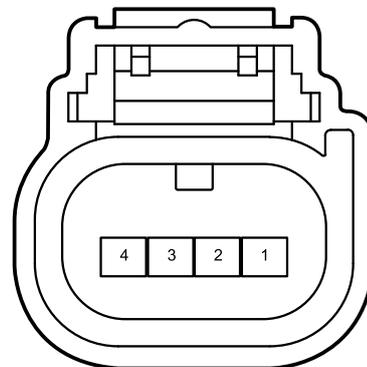


Pin-ning	Functions	Note
1	Signal positive	-
2	Signal negative	-

SO109b harness connector of right gas curtain

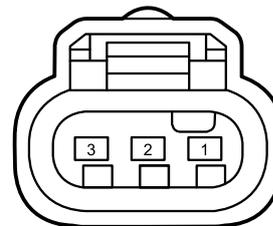
Pin-ning	Functions	Note
1	Signal positive	-
2	Signal negative	-

SO124a PEPS induction coil harness connector



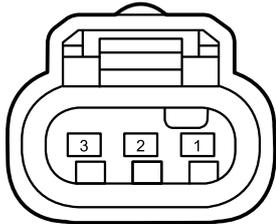
Pin-ning	Functions	Note
1	Signal positive	-
2	Signal negative	-
3	-	-
4	-	-

SO137 Left Rear Dead Zone Probe Harness Connector



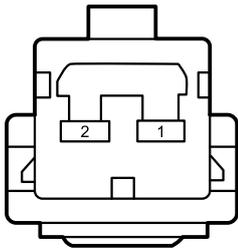
Pin-ning	Functions	Note
1	Power supply	-
2	Signal	-
3	Ground connection	-

SO138 Right Rear Dead Zone Probe Harness Connector

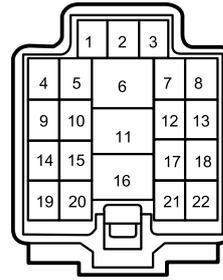


Pin-ning	Functions	Note
1	Power supply	-
2	Signal	-
3	Ground connection	-

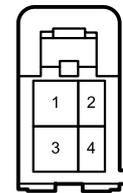
SO139b Base plate harness connects to instrument harness connector 6



SO140a harness connector 1 of driver seat connecting to base plate

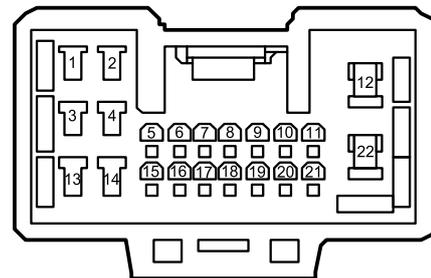


SO142a harness connector of driver seat slide motor



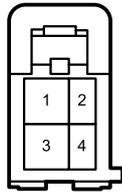
Pin-ning	Functions	Note
1	Forward adjustment	-
2	Hall sensor grounding	-
3	Backward adjustment	-
4	Hall sensor signal	-

SO143 harness connector of driver seat lifting motor

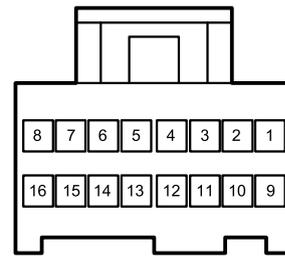


Pin-ning	Functions	Note
1	Motor down	-
2	Hall sensor grounding	-
3	Motor up	-
4	Hall sensor signal	-

SO146 harness connector of driver seat recliner motor

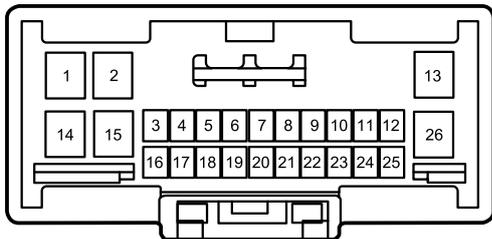


Pin-ning	Functions	Note
1	Forward adjustment	-
2	Hall sensor signal	-
3	Backward adjustment	-
4	Hall sensor grounding	-

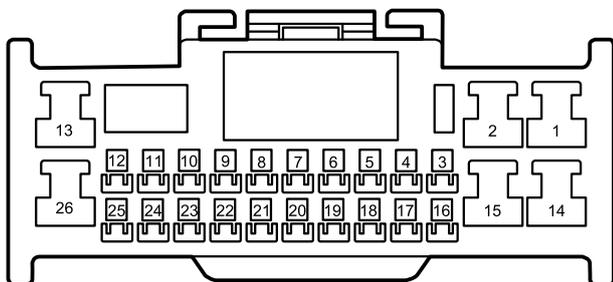


Pin-ning	Functions	Note
1	Woofers at driver side positive	-
2	Loudspeaker at front passenger side positive	-
3	RL loudspeaker positive	-
4	RR loudspeaker positive	-
5	-	-
6	-	-
7	-	-
8	-	-
9	Woofers at driver side negative	-
10	Loudspeaker at front passenger side negative	-
11	RL loudspeaker negative	-
12	RR loudspeaker negative	-
13	-	-
14	-	-
15	-	-
16	-	-

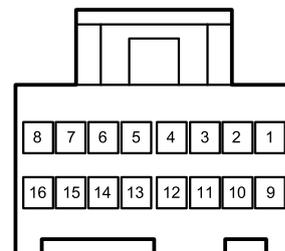
SO147f Base plate harness connects to rear bumper harness connector



SO148f Rear bumper harness connects to base plate harness connector



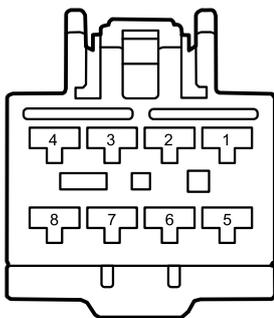
SO162 harness connector A of power amplifier



SO163 harness connector B of power amplifier

Pin-ning	Functions	Note
1	RL loudspeaker positive	-
2	RR loudspeaker positive	-
3	RR loudspeaker negative	-
4	High pitch loudspeaker of front passenger side door negative	-
5	Front Passenger Side Door Tweeter Positive	-
6	High pitch loudspeaker of driver side door positive	-
7	High pitch loudspeaker of driver side door negative	-
8	-	-
9	RL loudspeaker negative	-
10	-	-
11	-	-
12	-	-
13	AMP PWM Control Input	-
14	-	-
15	AMP ACC Control Input	-
16	-	-

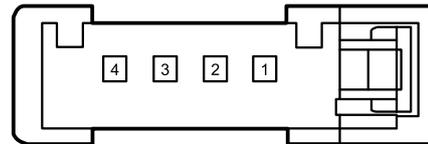
SO164 harness connector C of power amplifier



Pin-ning	Functions	Note
1	Front Passenger Side Door Woofer Negative	-
2	Subwoofer Positive	-
3	Driver Side Door Woofer Positive	-
4	ALT power supply	-
5	Low pitch loudspeaker of front passenger side door positive	-
6	Subwoofer Negative	-

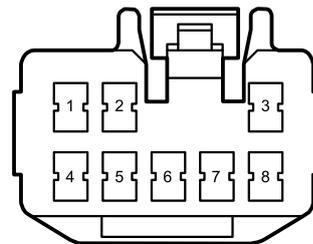
Pin-ning	Functions	Note
7	Low pitch loudspeaker of driver side door negative	-
8	Ground connection	-

SO202 Backdoor lock motor harness connector



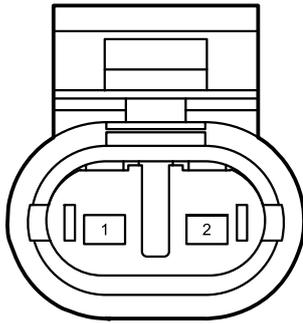
Pin-ning	Functions	Note
1	Ground connection	-
2	Door lock status signal	-
3	Motor control signal	-
4	-	-

SO203 harness connector of sunshade module



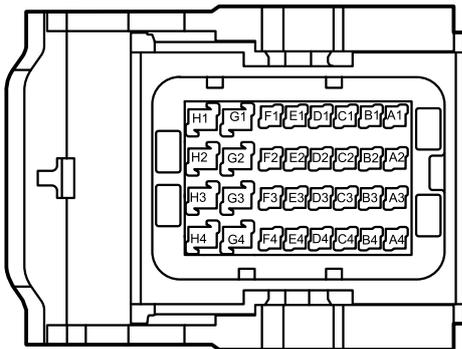
Pin-ning	Functions	Note
1	B+ Power supply	-
2	Ground connection	-
3	IG1 power supply	-
4	Sunshade closing	-
5	Sunshade opening	-
6	-	-
7	-	-
8	-	-

SO204 harness connector of backdoor micro switch



Pin-ning	Functions	Note
1	Signal	-
2	Ground connection	-

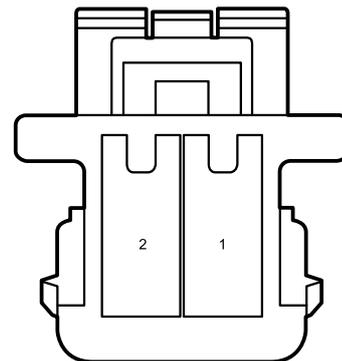
SO207 harness connector of electrocar communication control module



Pin-ning	Functions	Note
A1	-	-
A2	-	-
A3	B+ Power supply	-
A4	Grounding	-
B1	-	-
B2	Charger Awaking Signal	-
B3	IG1 power supply	-
B4	Fast Charging Awaking Signal Grounding	-
C1	-	-
C2	-	-
C3	High and Low Voltage Charging System CP Signal	-
C4	Fast charge wake-up signal	-
D1	-	-

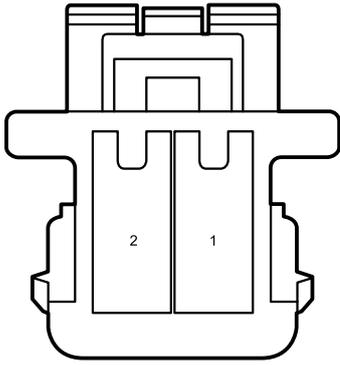
Pin-ning	Functions	Note
D2	-	-
D3	High and Low Voltage Charging System CC Signal	-
D4	Charging Connection Confirmation CC2Signal	-
E1	-	-
E2	Charging Socket CP Signal	-
E3	Fast Charging CAN-H	-
E4	HB CAN-H	-
F1	Grounding	-
F2	Charging Socket PP Signal	-
F3	Fast Charging CAN-L	-
F4	HB CAN-L	-
G1	-	-
G2	-	-
G3	-	-
G4	-	-
H1	-	-
H2	-	-
H3	-	-
H4	-	-

SO215 harness connector of right middle seat belt buckle



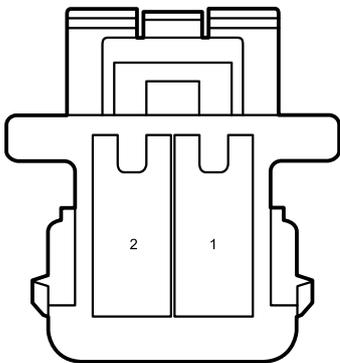
Pin-ning	Functions	Note
1	Signal	-
2	Ground connection	-

SO217 harness connector of left rear seat belt buckle



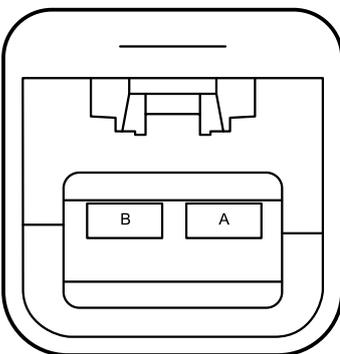
Pin-ning	Functions	Note
1	Signal	-
2	Ground connection	-

SO219 harness connector of right rear seat belt buckle



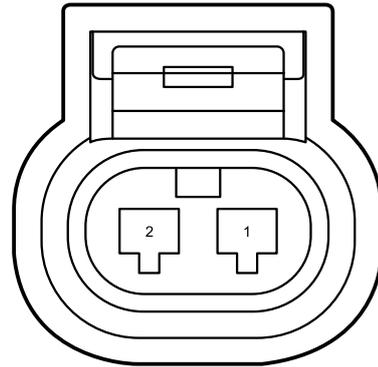
Pin-ning	Functions	Note
1	Signal	-
2	Ground connection	-

SO225a harness connector of subwoofer



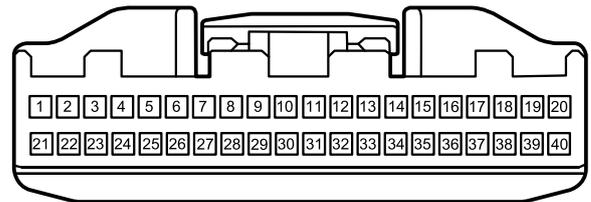
Pin-ning	Functions	Note
A	Loudspeaker negative	-
B	Loudspeaker positive	-

SO226 Rear Charging Covering Cap Motor Harness Connector



Pin-ning	Functions	Note
1	Locking signal	-
2	Unlocking signal	-

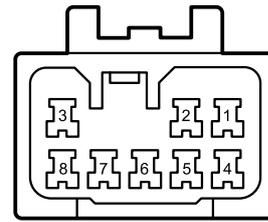
SO237a Automatic Parking Module Harness Connector 1



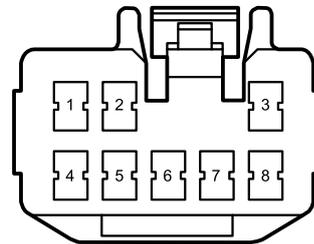
Pin-ning	Functions	Note
1	-	-
2	-	-
3	-	-
4	-	-
5	Driver Side Blind Spot Monitoring Indicator Lamp Positive	-
6	-	-
7	Rear reverse radar probe grounding	-
8	Right Rear Dead Zone Probe Signal	-
9	Left rear reverse radar probe signal	-
10	Right, central and rear reverse radar probe signal	-
11	Front Reverse Radar Probe Grounding	-

Pin-ning	Functions	Note
12	Right Front Dead Zone Probe Signal	-
13	-	-
14	-	-
15	-	-
16	-	-
17	-	-
18	CS CAN-L	-
19	ACC power supply	-
20	Ground connection	-
21	-	-
22	-	-
23	-	-
24	-	-
25	Front Passenger Side Blind Spot Monitoring Indicator Lamp Positive	-
26	Blind Spot Monitoring Indicator Lamp Negative	-
27	Rear reverse radar probe power supply	-
28	Left Rear Dead Zone Probe Signal	-
29	Left, central and rear reverse radar probe signal	-
30	Right rear reverse radar probe signal	-
31	Front Reverse Radar Probe Power Supply	-
32	Left Front Dead Zone Probe Signal	-
33	-	-
34	-	-
35	-	-
36	-	-
37	-	-
38	CS CAN-H	-
39	-	-
40	B+ Power supply	-

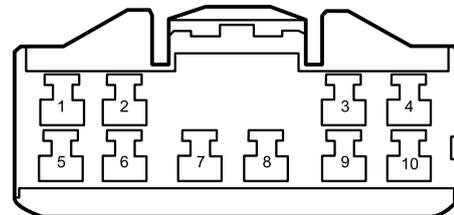
SO252b Rear Back Door Harness -License Plate Lamp Harness Connector



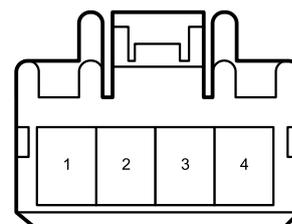
So253b harness connector of base plate harness connecting with backdoor



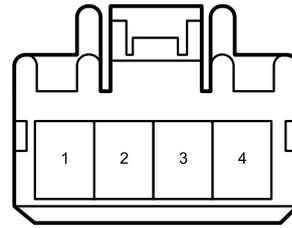
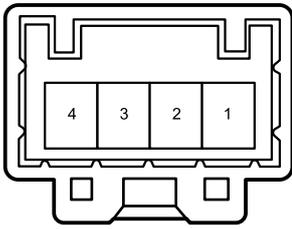
SO280 Base plate harness connects to front passenger seat harness connector



SO287 harness connector of driver seat harness connecting with base plate

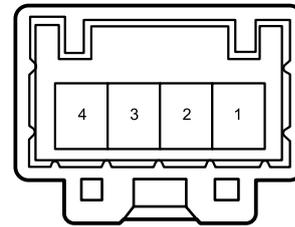
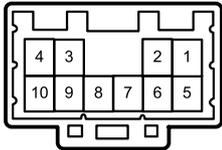


SO288 harness connector of driver back connecting with driver seat



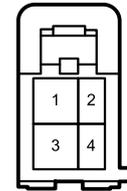
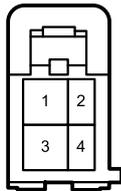
SO294a harness connector of base plate connecting with front passenger seat

SO289 Front passenger seat harness connects to base plate harness connector



SO296 harness connector of front passenger seat recliner motor

SO291 harness connector of front passenger seat slide motor

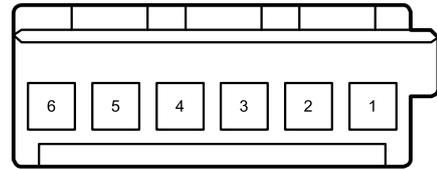
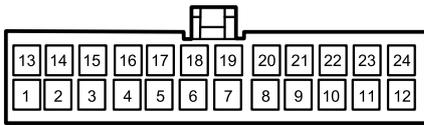


Pin-ning	Functions	Note
1	Forward adjustment	-
2	-	-
3	Backward adjustment	-
4	-	-

Pin-ning	Functions	Note
1	Forward adjustment	-
2	-	-
3	Backward adjustment	-
4	-	-

SO303b Driver Seat Heating Module Harness Connector

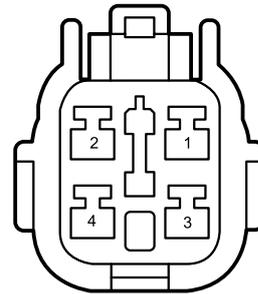
SO293a harness connector of front passenger seat connecting with base plate



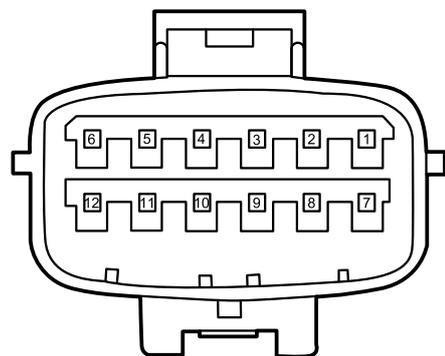
Pin-ning	Functions	Note
1	ALT power supply	-
2	-	-
3	Front Passenger Seat Cushion Heating Sensor Signal Positive	-
4	-	-
5	Driver Seat Cushion Heating Sensor Signal Positive	-
6	-	-
7	-	-
8	-	-
9	-	-
10	Front Row Seat Cushion Heating Sensor Signal Negative	-
11	Ground connection	-
12	Ground connection	-
13	ALT power supply	-
14	-	-
15	Driver Seat Cushion Heating Power Supply	-
16	-	-
17	Front Passenger Seat Cushion Heating Power Supply	-
18	-	-
19	-	-
20	-	-
21	-	-
22	CF CAN-H	-
23	CF CAN-L	-
24	-	-

Pin-ning	Functions	Note
1	B+ Power supply	-
2	-	-
3	-	-
4	-	-
5	Ground connection	-
6	LIN	-

SO410 -Charging Socket Harness Connector 2

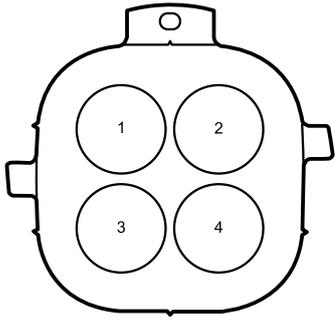


SO411 -Charging Socket Harness Connector 1



SO412 running through harness connector

SO409 RF Receiving Module Harness Connector

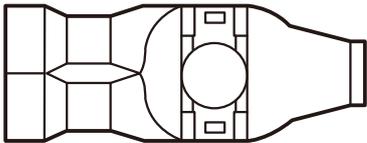


Pin-ning	Functions	Note
1	Ground connection	-
2	Position lamp power supply	-
3	Guest Receiving Signal	-
4	-	-

G24

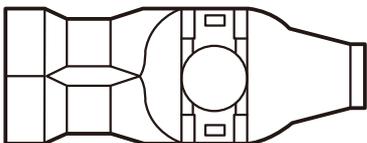
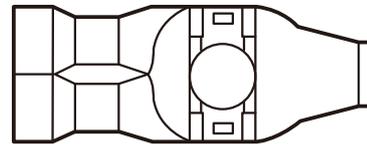


G20



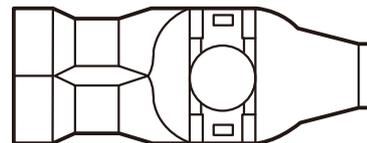
G26

G22

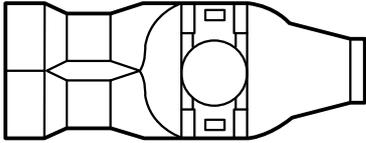


G27

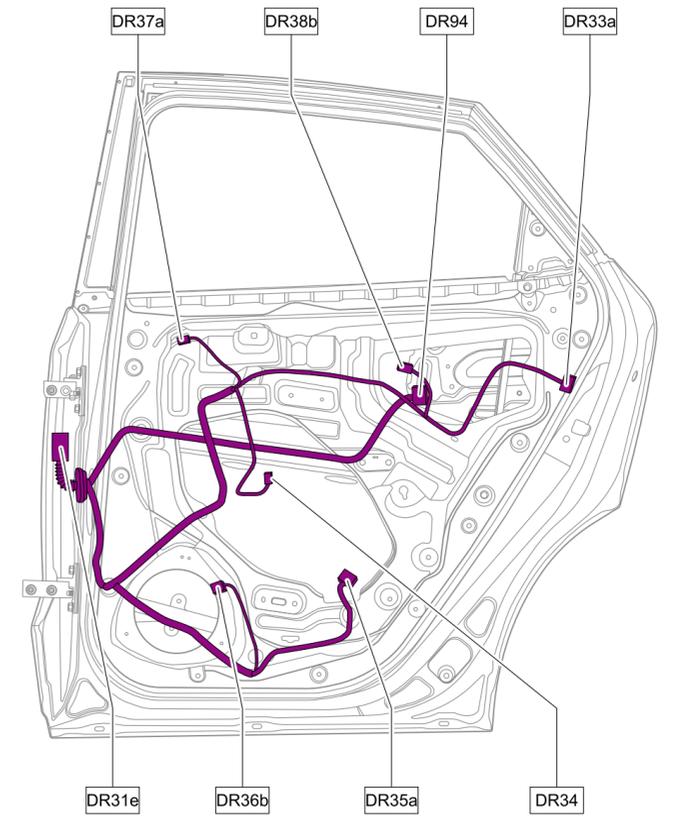
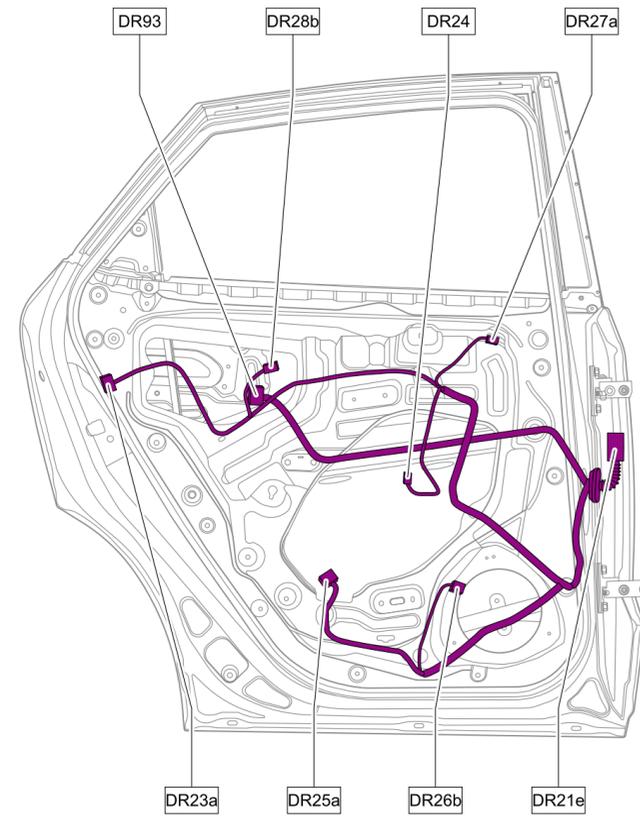
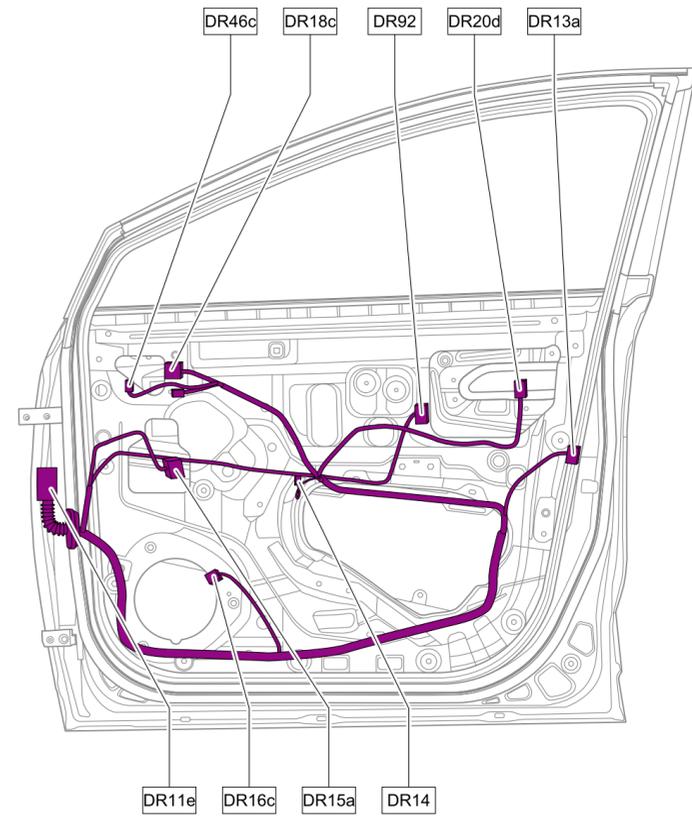
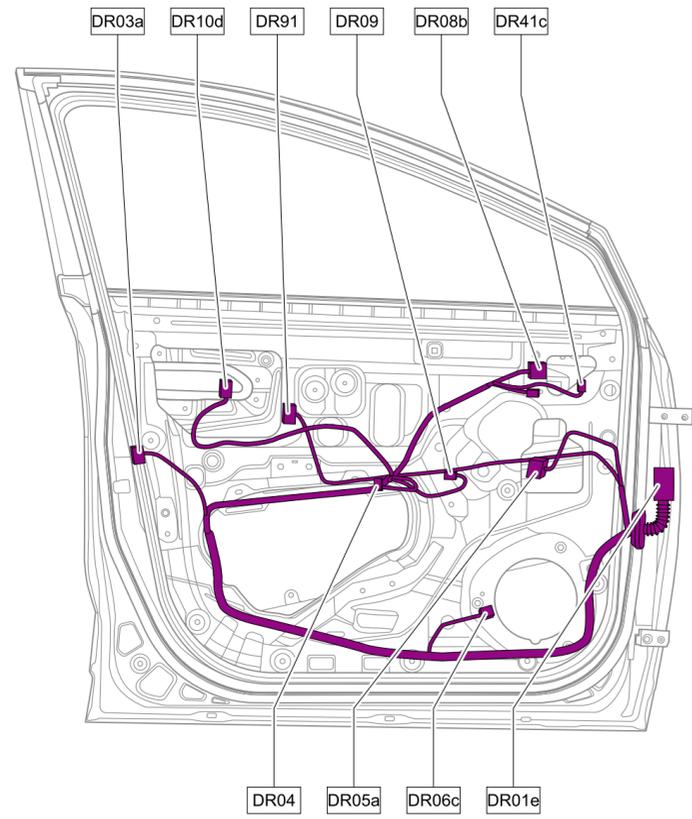
G23



G28



Door Harness Arrangement Diagram

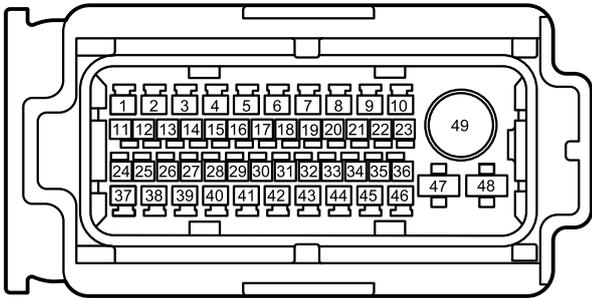


**Door harness connector list**

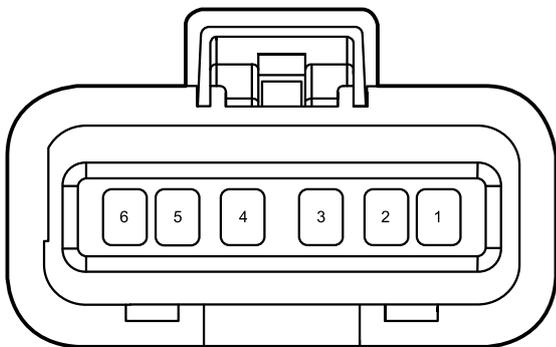
Harness connector	Name	Harness connector	Name
DR01e	Driver Door Harness -Baseplate Harness Connector	DR25a	Rear left door window regulator motor harness connector
DR03a	Driver door lock motor harness connector	DR26b	Rear left door woofer harness connector
DR04	Harness connector for door window regulator switch at driver side	DR27a	Rear left door tweeter harness connector
DR05a	Door window regulator motor harness connector at driver side	DR28b	Left Rear Door Atmosphere Lamp Harness Connector
DR06c	Driver's door woofer harness connector	DR31e	Rear right door harness connects to base plate harness connector
DR08b	Exterior rearview mirror harness connector at driver side	DR33a	Rear right door lock motor harness connector
DR09	Exterior rearview mirror adjusting switch harness connector	DR34	Right Rear Door Window Regulator Switch Harness Connector
DR10d	Door handle sensor harness connector at driver side	DR35a	Rear right door window regulator motor harness connector
DR11e	Front Passenger Door Harness -Baseplate Harness Connector	DR36b	Rear right door woofer harness connector
DR13a	Harness connector for door lock motor at front passenger side	DR37a	Rear right door tweeter harness connector
DR14	Door window regulator switch harness connector at front passenger side	DR38b	Right Rear Door Atmosphere Lamp Harness Connector
DR15a	Harness connector for door window regulator motor at front passenger side	DR41c	Driver Side Door Atmosphere Lamp Harness Connector
DR16c	Front passenger's door woofer harness connector	DR46c	Front Passenger Side Door Atmosphere Lamp Harness Connector
DR18c	Exterior rearview mirror harness connector at front passenger side	DR91	Left Front Door Concealed Door Handle Harness Connector
DR20d	Front Passenger Side Door Handle Sensor Harness Connector	DR92	Right Front Door Concealed Door Handle Harness Connector
DR21e	Rear left door harness connects to base plate harness connector	DR93	Left Rear Door Concealed Door Handle Harness Connector
DR23a	Rear left door lock motor harness connector	DR94	Right Rear Door Concealed Door Handle Harness Connector
DR24	Left Rear Door Window Regulator Switch Harness Connector	-	-

### Door Harness Terminal Definition

DR01e Driver seat harness connects to base plate harness connector

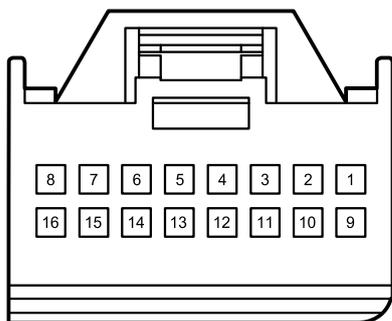


DR03a door lock motor harness connector at driver side



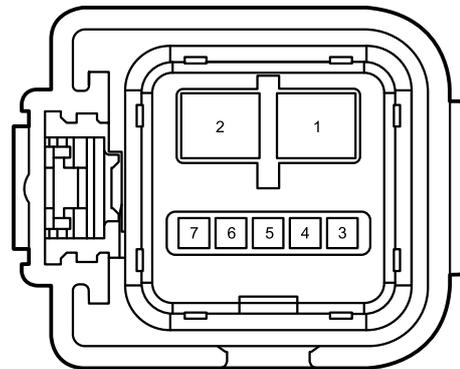
Pin-ning	Functions	Note
1	Courtesy switch signal	-
2	-	-
3	Locking signal	-
4	Unlocking signal	-
5	Ground connection	-
6	Door lock status signal	-

Harness connector for door window regulator switch at driver side



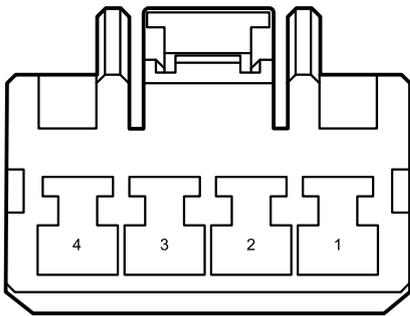
Pin-ning	Functions	Note
1	Window locking switch signal	-
2	Window locking indicator lamp	-
3	-	-
4	Driver side window regulating signal input	-
5	Driver side window regulating signal output	-
6	Front passenger side window regulating signal	-
7	Rear right window regulating signal	-
8	Rear left window regulating signal	-
9	Backlight lamp power supply	-
10	Switch grounding	-
11	Central lock switch signal	-
12	-	-
13	Central lock status indicator signal	-
14	Ground connection	-
15	-	-
16	-	-

DR05a Door window regulator motor harness connector at driver side



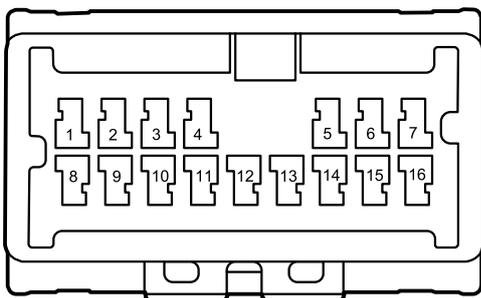
Pin-ning	Functions	Note
1	Ground connection	-
2	ALT power supply	-
3	Signal Input	-
4	LIN	-
5	-	-
6	-	-
7	Signal output	-

DR06c woofer harness connector of the driver side door



Pin-ning	Functions	Note
1	Loudspeaker negative	-
2	-	-
3	Loudspeaker positive	-
4	-	-

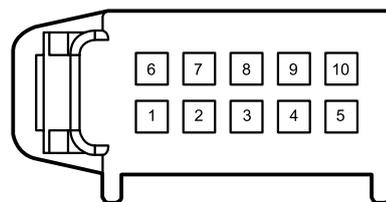
DR08b Harness connector for exterior rearview mirrors at driver side



Pin-ning	Functions	Note
1	Common terminal for rearview mirror adjustment	-
2	Left-right adjustment of rearview mirrors	-
3	Up-down adjustment of rearview mirrors	-
4	Turn signal power supply	-
5	Defroster & turn signal grounding	-
6	Heating power supply of rearview mirrors	-
7	Folding of rearview mirrors	-
8	Unfolding of rearview mirrors	-

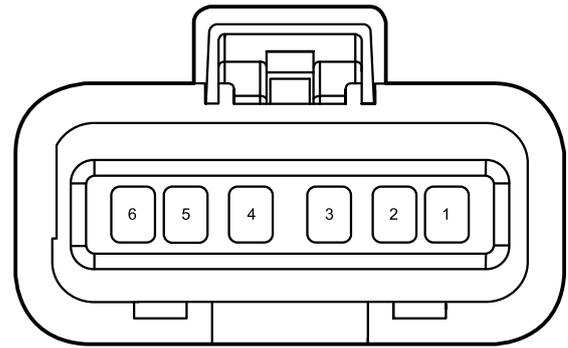
Pin-ning	Functions	Note
9	Blind Spot Monitoring Indicator Lamp Signal Positive	-
10	Blind Spot Monitoring Indicator Lamp Signal Negative	-
11	Power supply of memory sensor	-
12	Up-Down Memory Position Signal	-
13	Memory sensor grounding	-
14	Left Right Memory Position Signal	-
15	-	-
16	-	-

DR09 Exterior rearview mirror adjustment switch harness connector



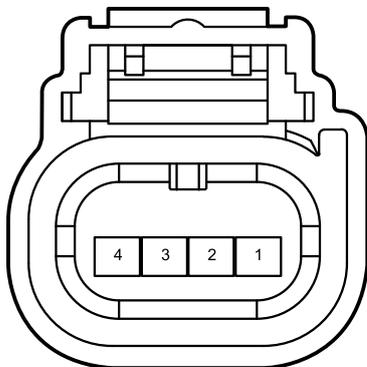
Pin-ning	Functions	Note
1	Backlight lamp power supply	-
2	Rearview mirror folding switch signal	-
3	Ground connection	-
4	Common terminal of external rearview mirror adjustment	-
5	B+ power supply	-
6	Driver Side External Rearview Mirror Left Right Regulation (Memory)/Driver Side External Rearview Mirror Up-Down Regulation	-
7	Driver Side External Rearview Mirror Up-Down Regulation (Memory)/Driver Side External Rearview Mirror Left Right Regulation	-

Pin-ning	Functions	Note
8	Front Passenger Side External Rearview Mirror Left Right Regulation (Memory)/Front Passenger Side External Rearview Mirror Up-Down Regulation	-
9	Front Passenger Side External Rearview Mirror Up-Down Regulation (Memory)/Front Passenger Side External Rearview Mirror Left Right Regulation	-
10	-	-

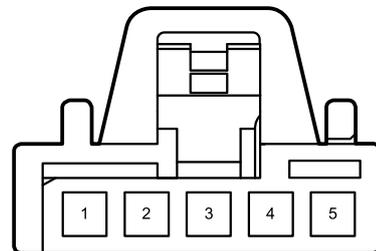


Pin-ning	Functions	Note
1	Courtesy switch signal	-
2	-	-
3	Unlocking signal	-
4	Locking signal	-
5	Ground connection	-
6	Door lock status signal	-

DR10d harness connector of door handle sensor at driver side door



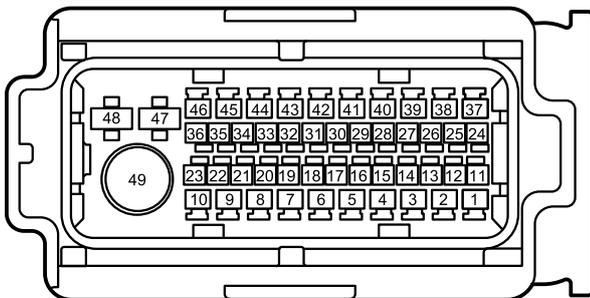
DR14 Door window regulator switch harness connector at front passenger side



Pin-ning	Functions	Note
1	Sensor positive	-
2	Sensor negative	-
3	-	-
4	-	-

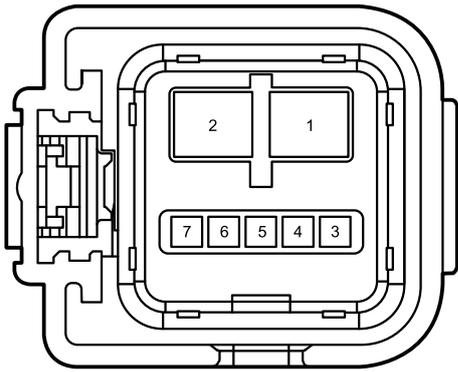
DR11e Front passenger door harness connects to base plate harness connector

Pin-ning	Functions	Note
1	Backlight lamp grounding	-
2	Backlight lamp power supply	-
3	Signal Input	-
4	Signal output	-
5	-	-



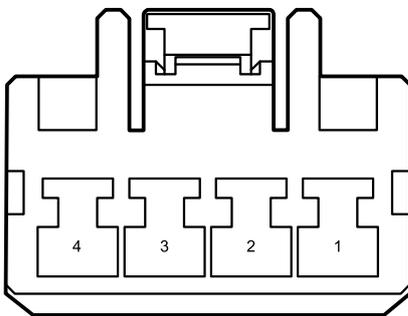
DR15a Harness connector for door window regulator motor at front passenger side

DR13a harness connector for door lock motor at front passenger side door



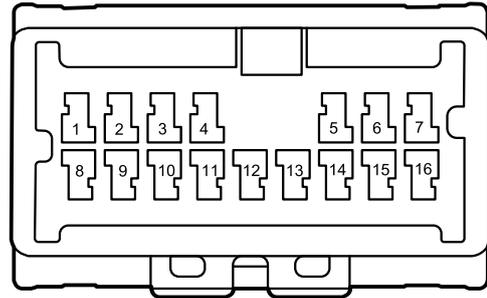
Pin-ning	Functions	Note
1	Ground connection	-
2	B+ power supply	-
3	Signal Input	-
4	LIN	-
5	-	-
6	-	-
7	Signal output	-

DR16c woofer harness connector at front passenger side door



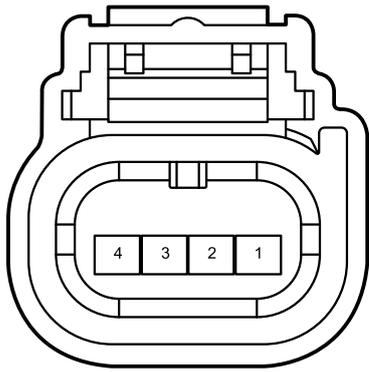
Pin-ning	Functions	Note
1	Loudspeaker negative	-
2	-	-
3	Loudspeaker positive	-
4	-	-

DR18c Harness connector for exterior rearview mirror at front passenger side



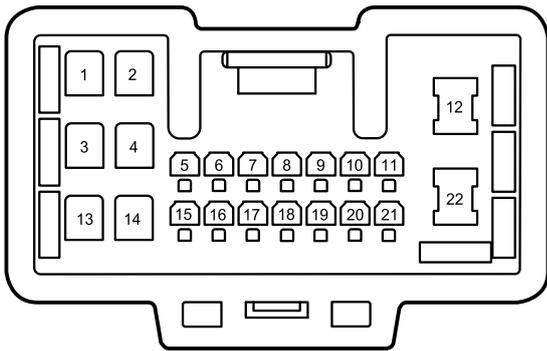
Pin-ning	Functions	Note
1	Common terminal for rearview mirror adjustment	-
2	Left-right adjustment of rearview mirrors	-
3	Up-down adjustment of rearview mirrors	-
4	Turn signal power supply	-
5	Defroster & turn signal grounding	-
6	Heating power supply of rearview mirrors	-
7	Folding of rearview mirrors	-
8	Unfolding of rearview mirrors	-
9	Blind Spot Monitoring Indicator Lamp Signal Positive	-
10	Blind Spot Monitoring Indicator Lamp Signal Negative	-
11	Power supply of memory sensor	-
12	Up-Down Memory Position Signal	-
13	Memory sensor grounding	-
14	Left Right Memory Position Signal	-
15	-	-
16	-	-

DR20d harness connector of door handle sensor at front passenger side

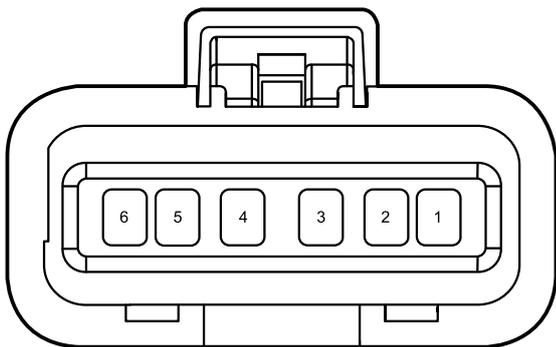


Pin-ning	Functions	Note
1	Sensor positive	-
2	Sensor negative	-
3	-	-
4	-	-

DR21e Rear left door harness connects to base plate harness connector



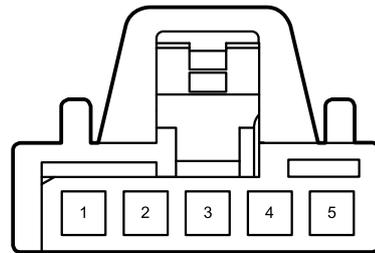
DR23a Rear left door lock motor harness connector



Pin-ning	Functions	Note
1	Courtesy switch signal	-
2	-	-
3	Locking signal	-
4	Unlocking signal	-

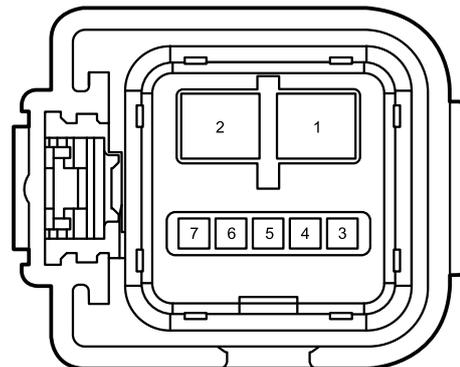
Pin-ning	Functions	Note
5	Ground connection	-
6	Door lock status signal	-

DR24 Rear left door window regulator switch harness connector



Pin-ning	Functions	Note
1	Backlight lamp grounding	-
2	Backlight lamp power supply	-
3	Signal Input	-
4	Signal output	-
5	-	-

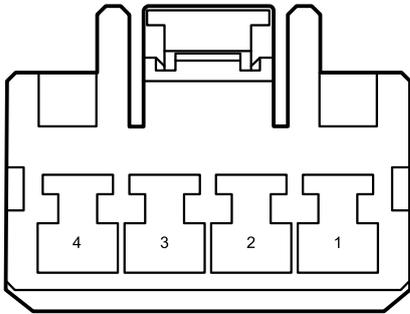
DR25a Rear left door window regulator motor harness connector



Pin-ning	Functions	Note
1	Ground connection	-
2	ALT power supply	-
3	Signal Input	-
4	LIN	-
5	-	-

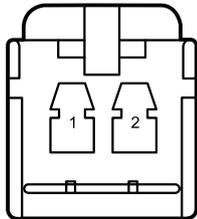
Pin-ning	Functions	Note
6	-	-
7	Signal output	-

DR26b rear left door woofer harness connector



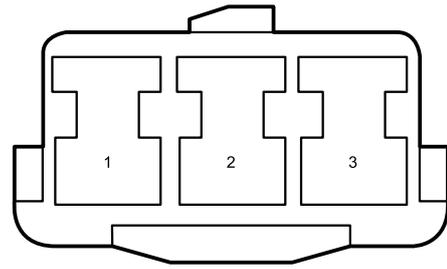
Pin-ning	Functions	Note
1	Loudspeaker negative	-
2	-	-
3	Loudspeaker positive	-
4	-	-

DR27a Rear left door tweeter harness connector



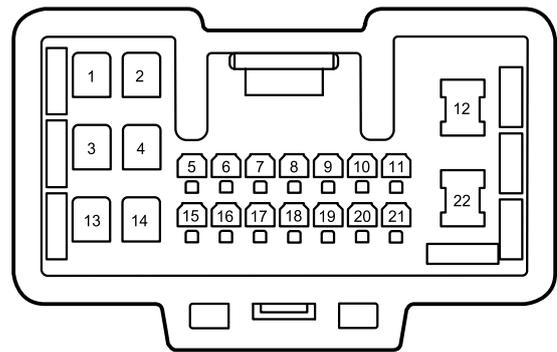
Pin-ning	Functions	Note
1	Loudspeaker negative	-
2	Loudspeaker positive	-

DR28b rear left door atmosphere lamp harness connector

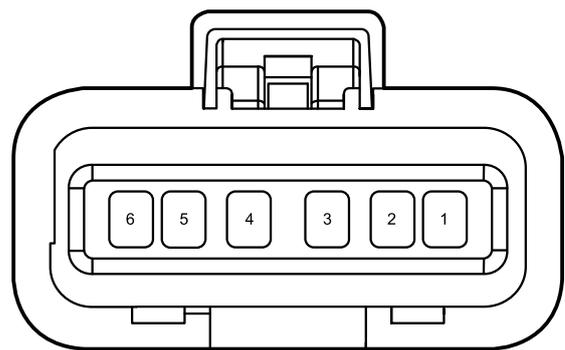


Pin-ning	Functions	Note
1	Ground connection	-
2	B+ power supply	-
3	LIN	-

DR31e Rear right door connects to base plate harness connector



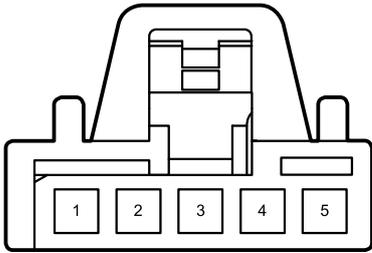
DR33a Rear right door lock motor harness connector



Pin-ning	Functions	Note
1	Courtesy switch signal	-
2	-	-
3	Unlocking signal	-
4	Locking signal	-

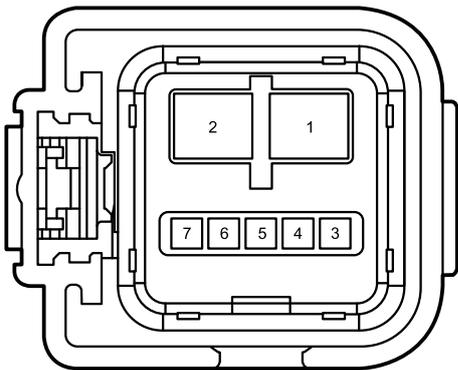
Pin-ning	Functions	Note
5	Ground connection	-
6	Door lock status signal	-

DR34 Rear right door window regulator switch harness connector



Pin-ning	Functions	Note
1	Backlight lamp grounding	-
2	Backlight lamp power supply	-
3	Signal Input	-
4	Signal output	-
5	-	-

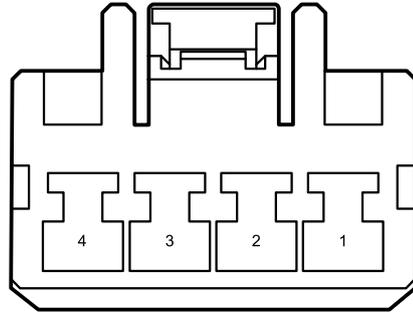
DR35a Rear right door window regulator motor harness connector



Pin-ning	Functions	Note
1	Ground connection	-
2	B+ power supply	-
3	Signal Input	-
4	LIN	-
5	-	-

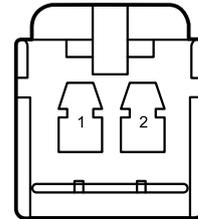
Pin-ning	Functions	Note
6	-	-
7	Signal output	-

DR36b Right rear door woofer harness connector



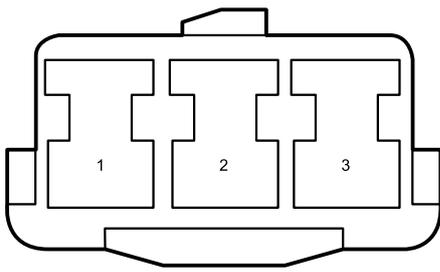
Pin-ning	Functions	Note
1	Loudspeaker negative	-
2	-	-
3	Loudspeaker positive	-
4	-	-

DR37a Rear right door tweeter harness connector



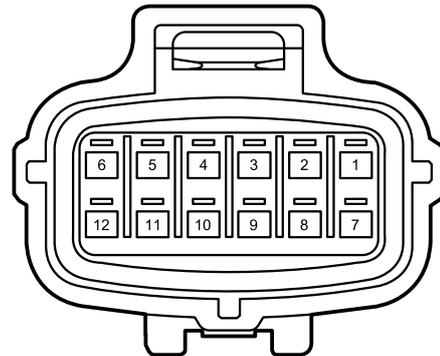
Pin-ning	Functions	Note
1	Loudspeaker negative	-
2	Loudspeaker positive	-

DR38b right rear atmosphere lamp harness connector



Pin-ning	Functions	Note
1	Ground connection	-
2	B+ power supply	-
3	LIN	-

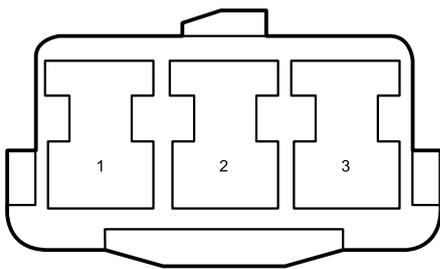
DR91 Left Front Door Concealed Door Handle Harness Connector



Pin-ning	Functions	Note
1	Ground connection	-
2	B+ power supply	-
3	LIN	-

Dr41c atmosphere lamp harness connector at driver side door

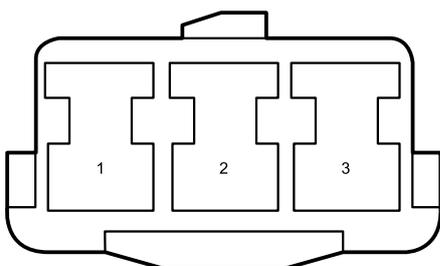
Pin-ning	Functions	Note
1	Motor positive	-
2	Door Handle Indicator Lamp Power Supply	-
3	B+ power supply	-
4	Door Handle Status Sensor Signal	-
5	Door Handle Cock Signal Output	-
6	Door Handle Close Signal Output	-
7	Motor negative	-
8	Door Handle Indicator Lamp Grounding	-
9	Door Handle Status Sensor Grounding	-
10	-	-
11	Door Handle Cock Signal Grounding	-
12	Door Handle Close Signal Grounding	-

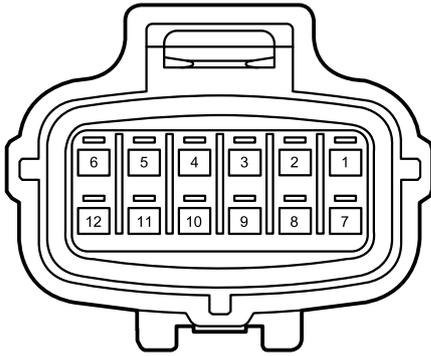


Pin-ning	Functions	Note
1	Ground connection	-
2	B+ power supply	-
3	LIN	-

DR46c harness connector of atmosphere lamp at front passenger side door

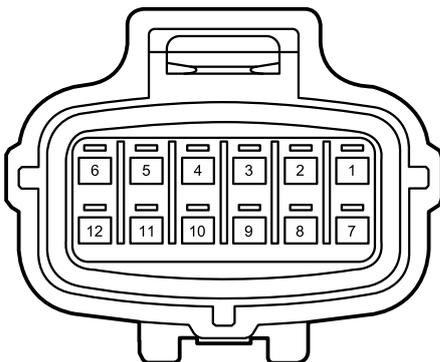
DR92 Right Front Door Concealed Door Handle Harness Connector





Pin-ning	Functions	Note
1	Motor positive	-
2	Door Handle Indicator Lamp Power Supply	-
3	-	-
4	-	-
5	Door Handle Cock Signal Output	-
6	Door Handle Close Signal Output	-
7	Motor negative	-
8	Door Handle Indicator Lamp Grounding	-
9	-	-
10	-	-
11	Door Handle Cock Signal Grounding	-
12	Door Handle Close Signal Grounding	-

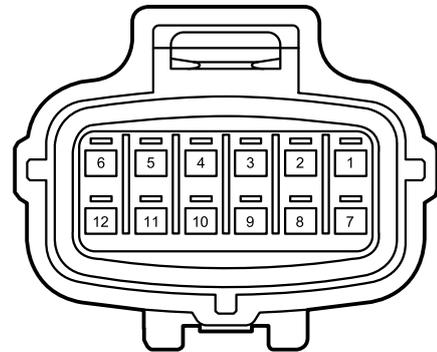
DR93 Left Rear Door Concealed Door Handle Harness Connector



Pin-ning	Functions	Note
1	Motor positive	-
2	Door Handle Indicator Lamp Power Supply	-
3	-	-

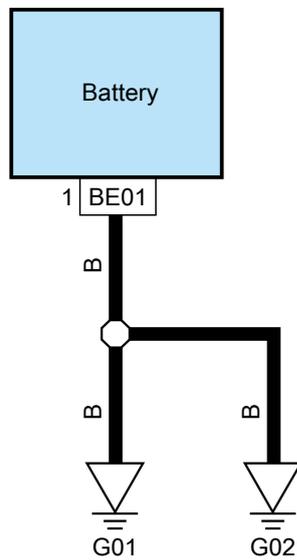
Pin-ning	Functions	Note
4	-	-
5	Door Handle Cock Signal Output	-
6	Door Handle Close Signal Output	-
7	Motor negative	-
8	Door Handle Indicator Lamp Grounding	-
9	-	-
10	-	-
11	Door Handle Cock Signal Grounding	-
12	Door Handle Close Signal Grounding	-

DR94 Right Rear Door Concealed Door Handle Harness Connector

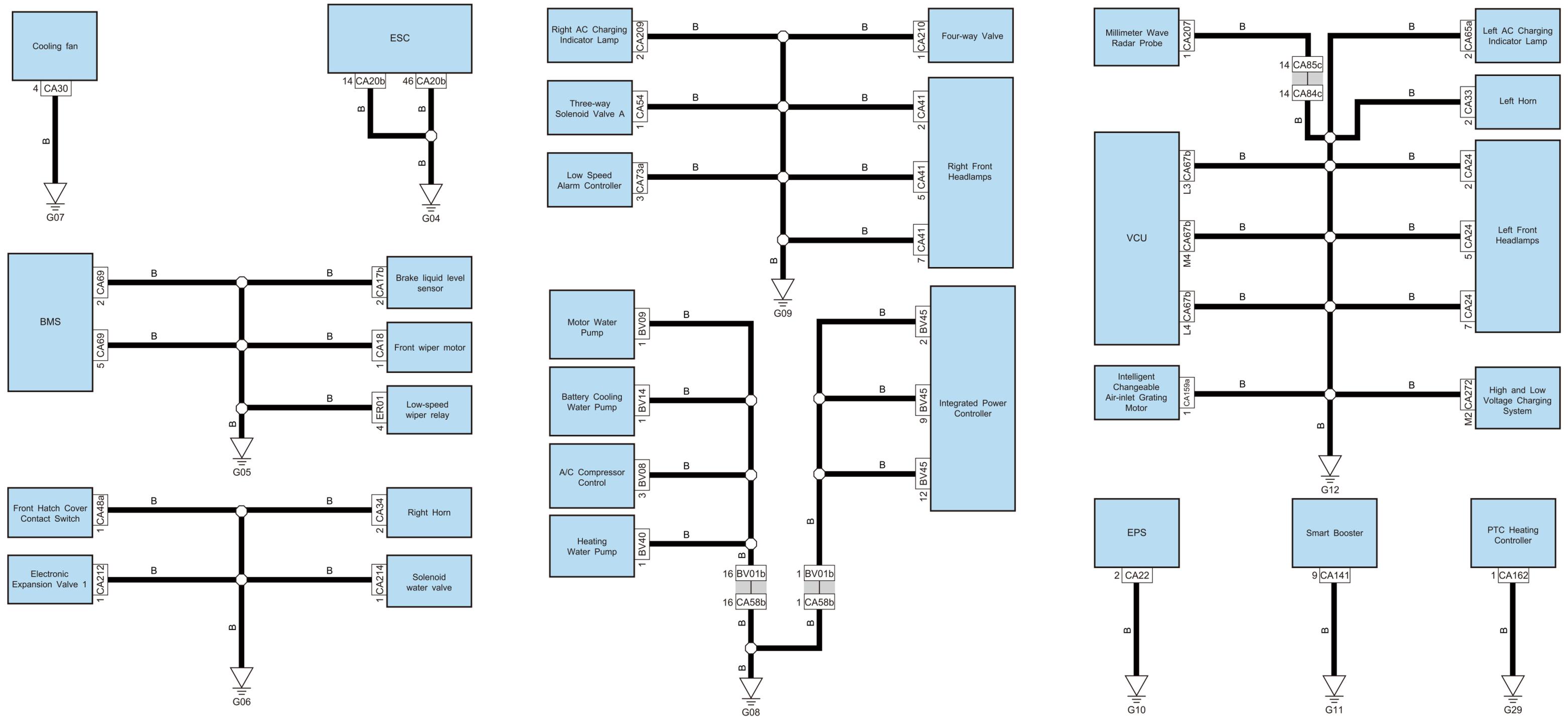


Pin-ning	Functions	Note
1	Motor positive	-
2	Door Handle Indicator Lamp Power Supply	-
3	-	-
4	-	-
5	Door Handle Cock Signal Output	-
6	Door Handle Close Signal Output	-
7	Motor negative	-
8	Door Handle Indicator Lamp Grounding	-
9	-	-
10	-	-
11	Door Handle Cock Signal Grounding	-
12	Door Handle Close Signal Grounding	-

**Battery Negative Harness Grounding**

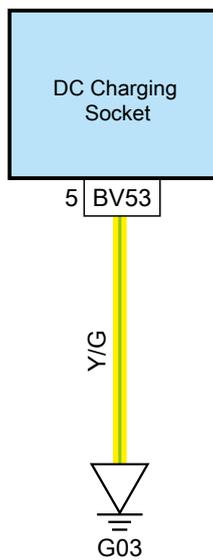


Engine Harness Grounding

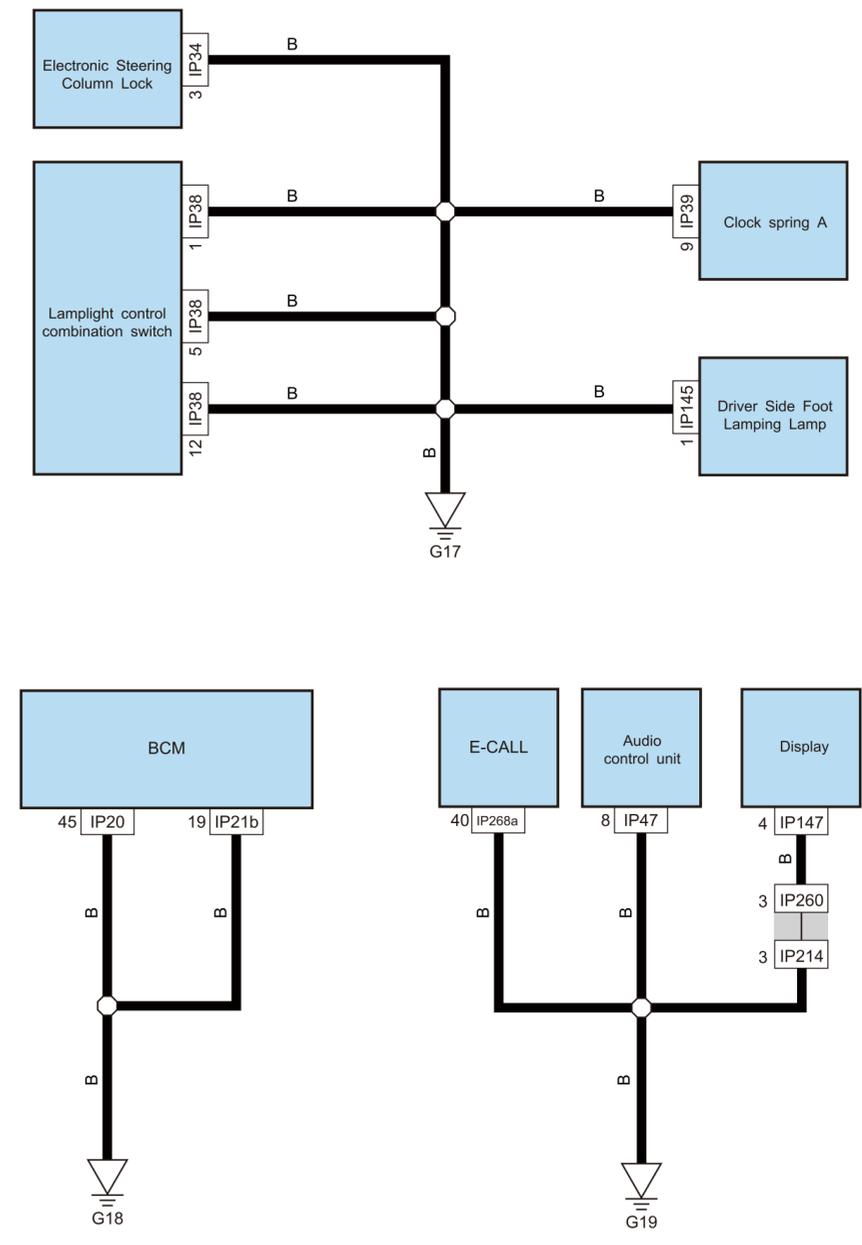
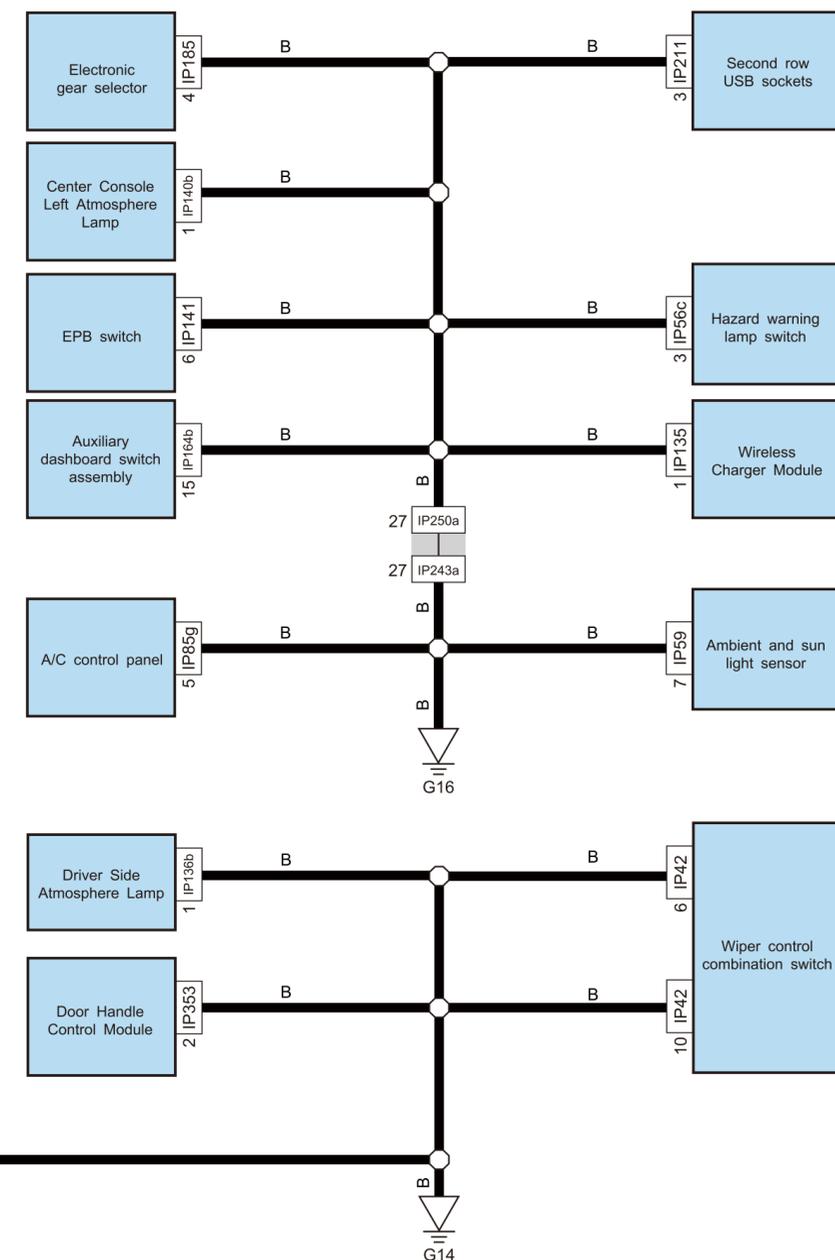
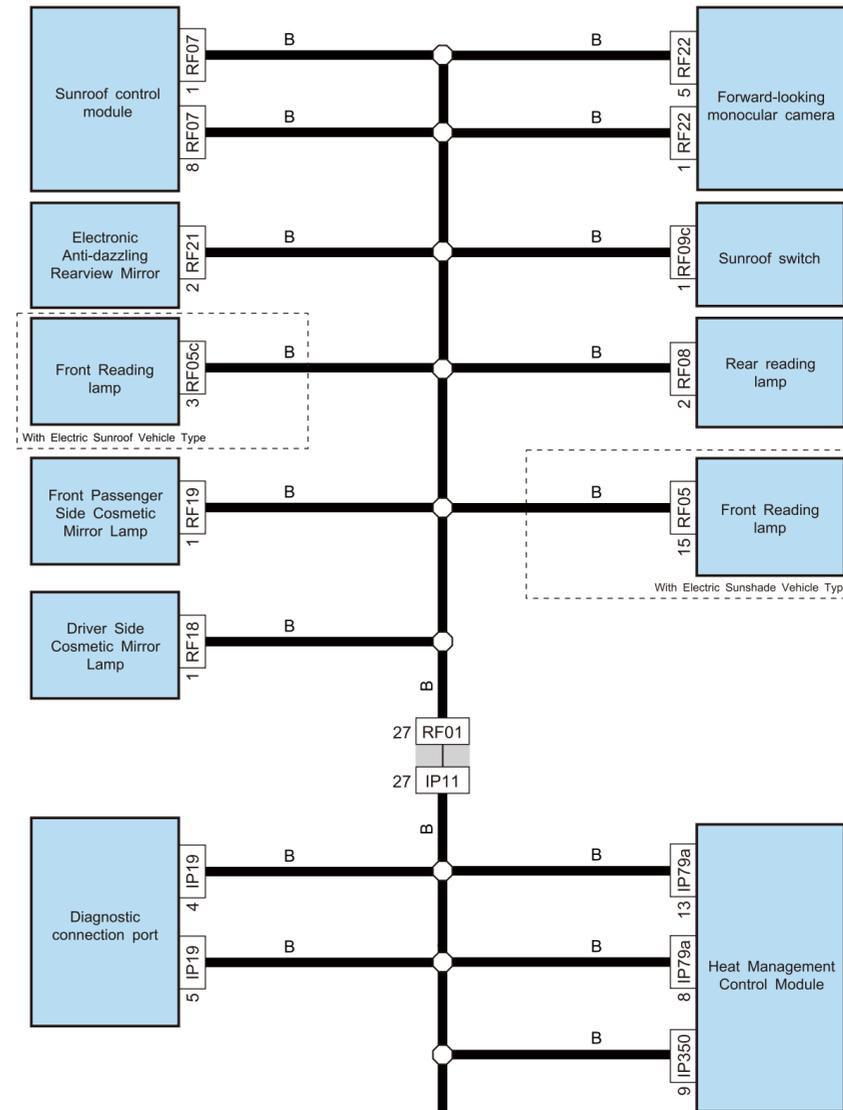
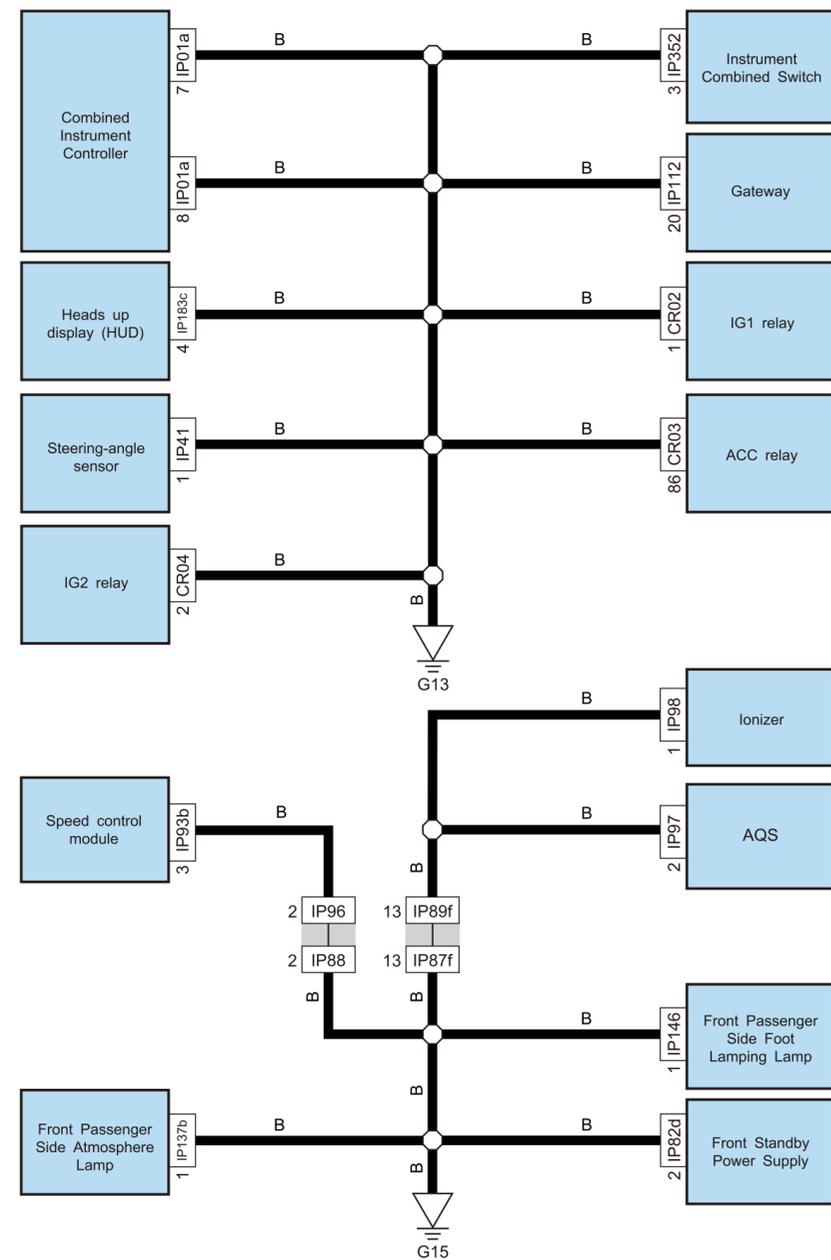


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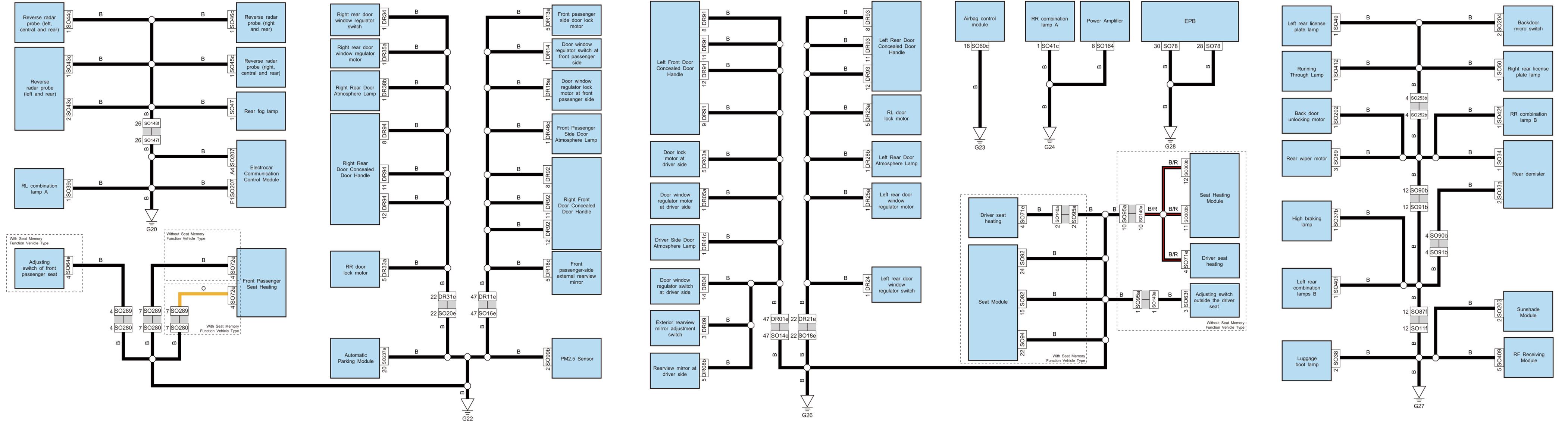
**Power Harness Grounding**



Instrument Harness Grounding

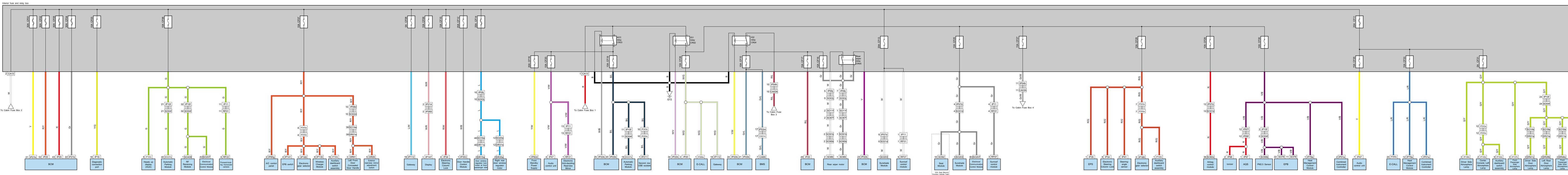


Base plate harness grounding

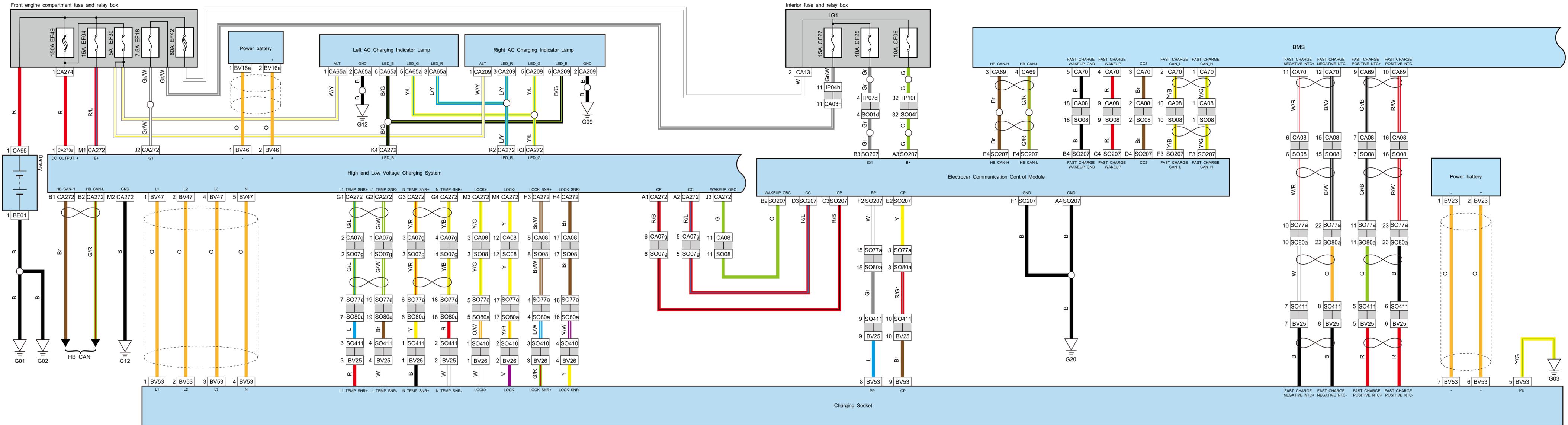




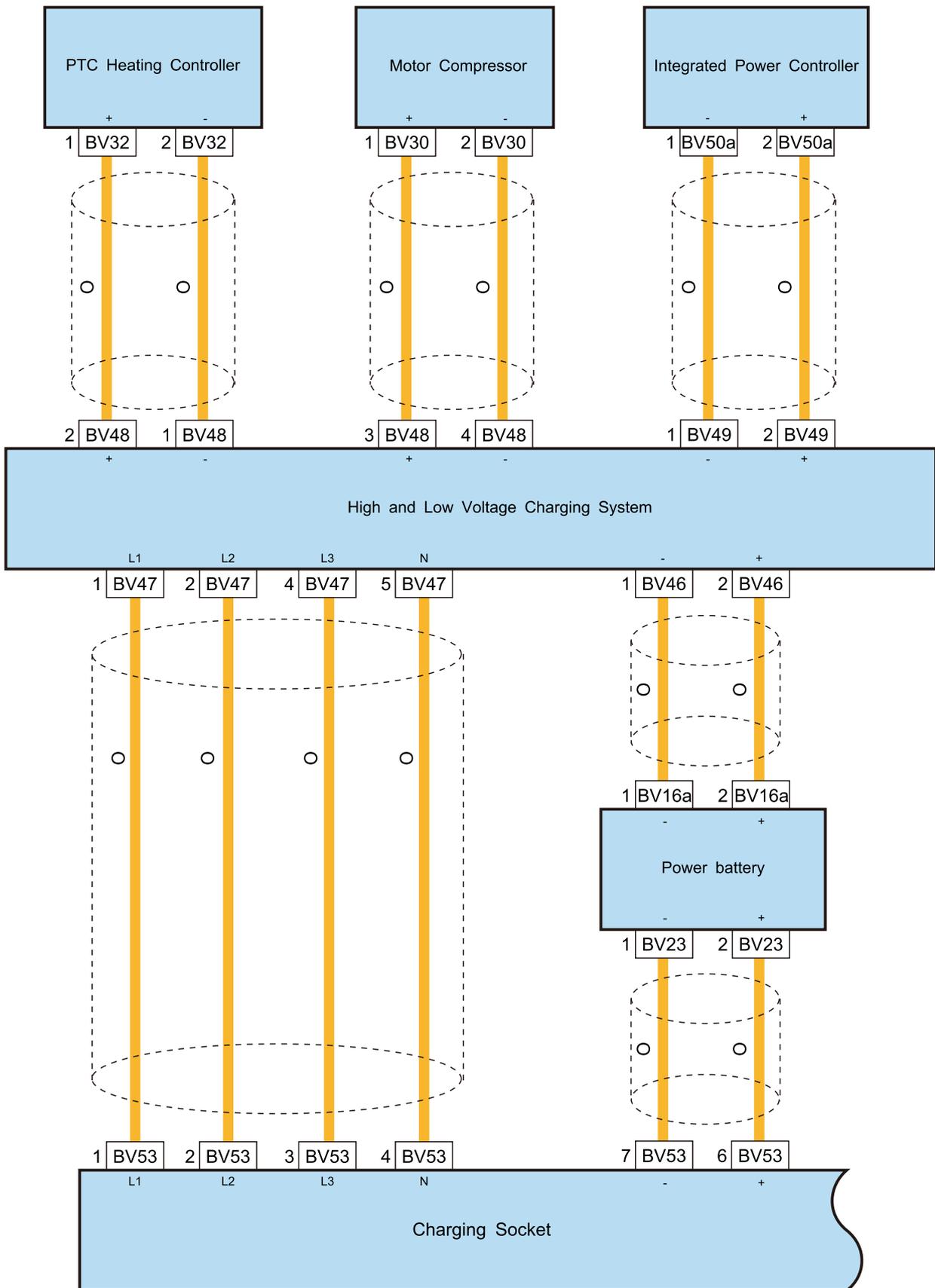
Indoor Power Distribution



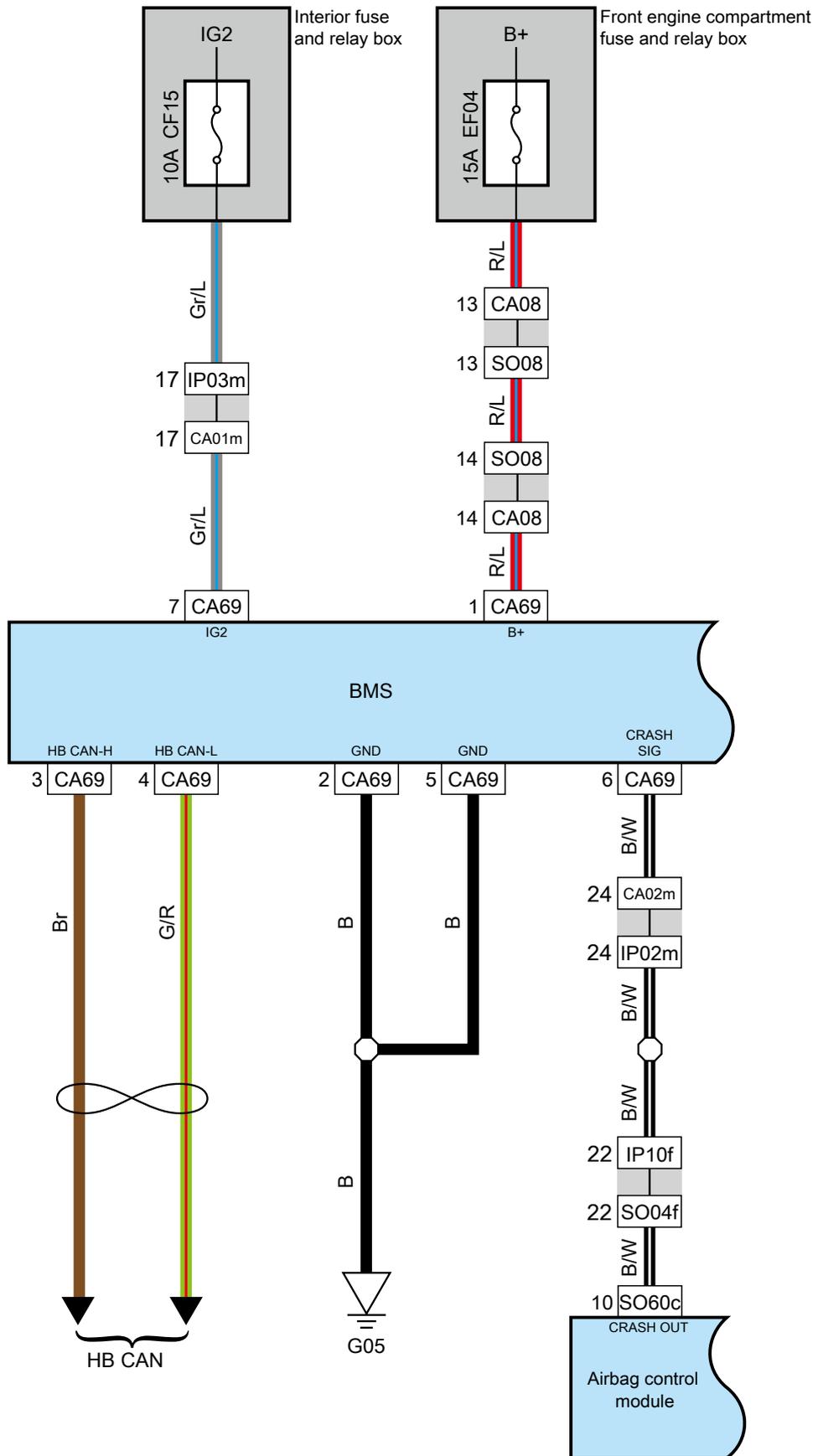
Charging System



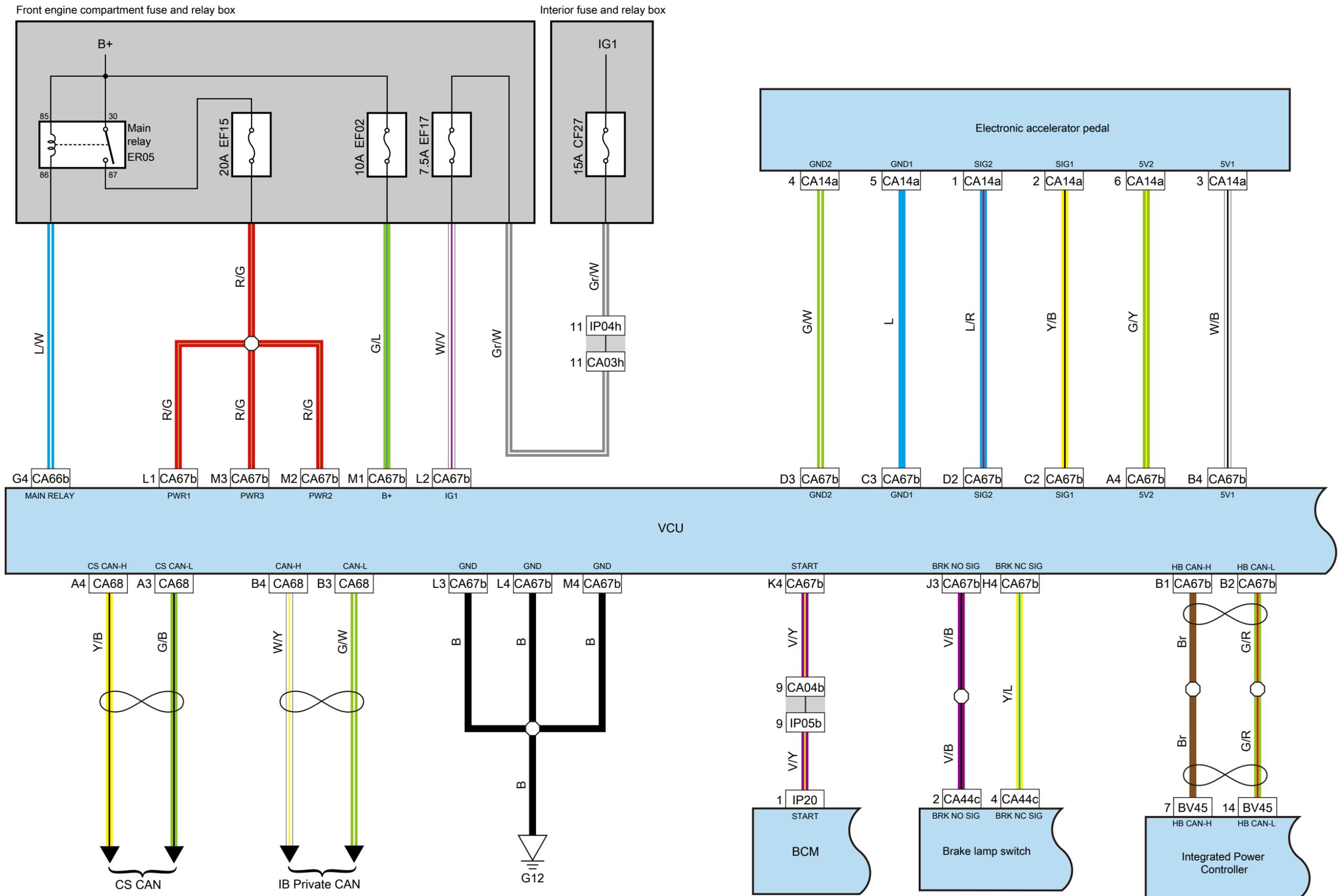
High Voltage Distribution System



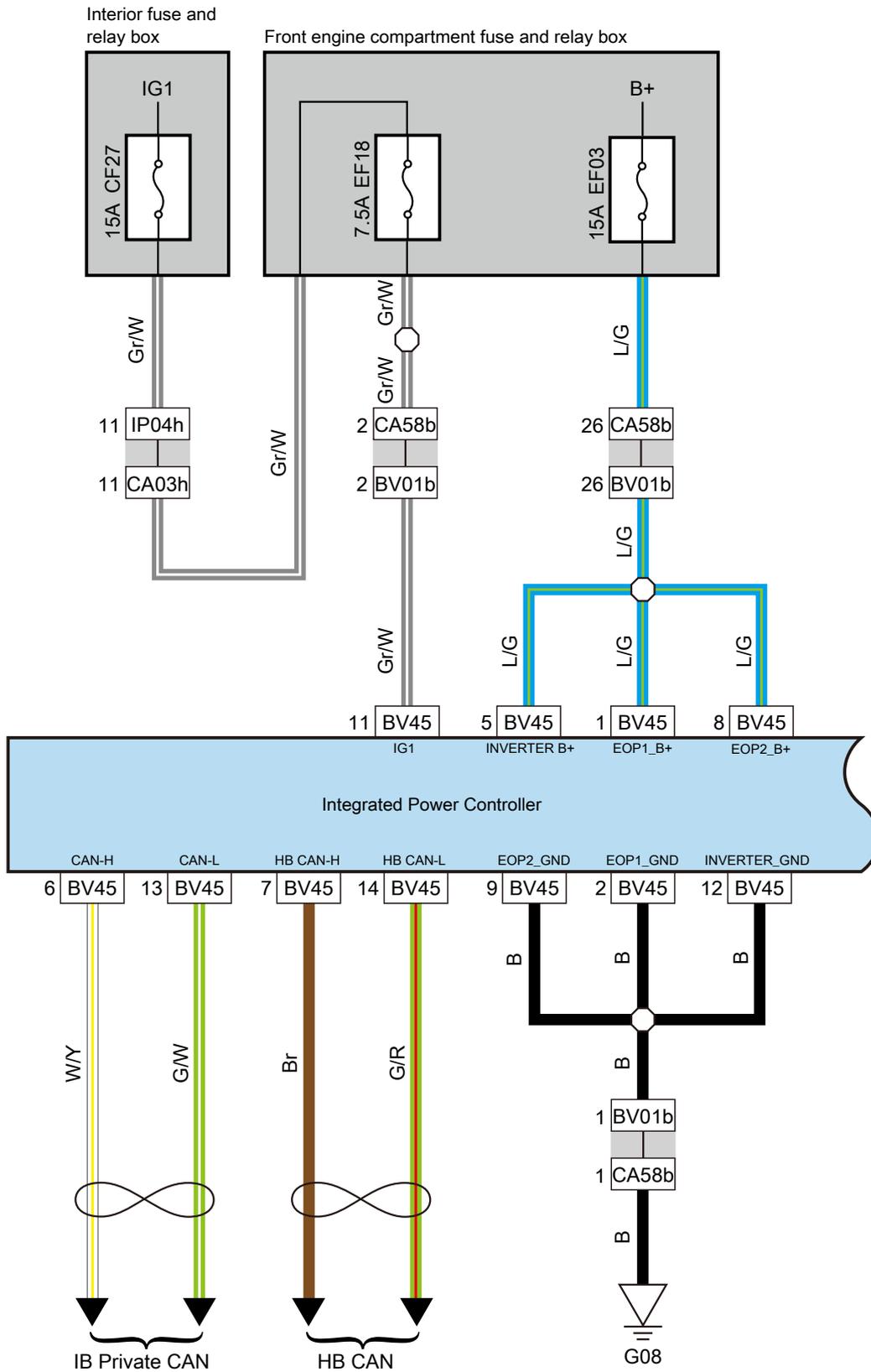
**Power Battery Control System**



Complete Vehicle Control System

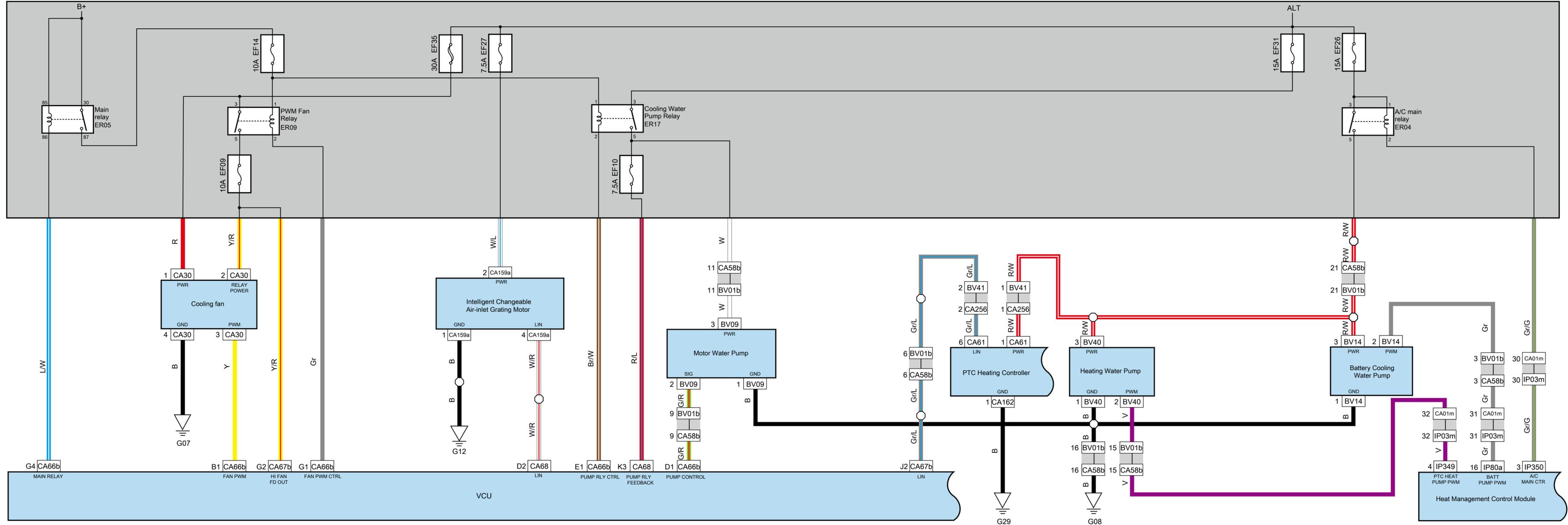


**Integrated Power Control System**

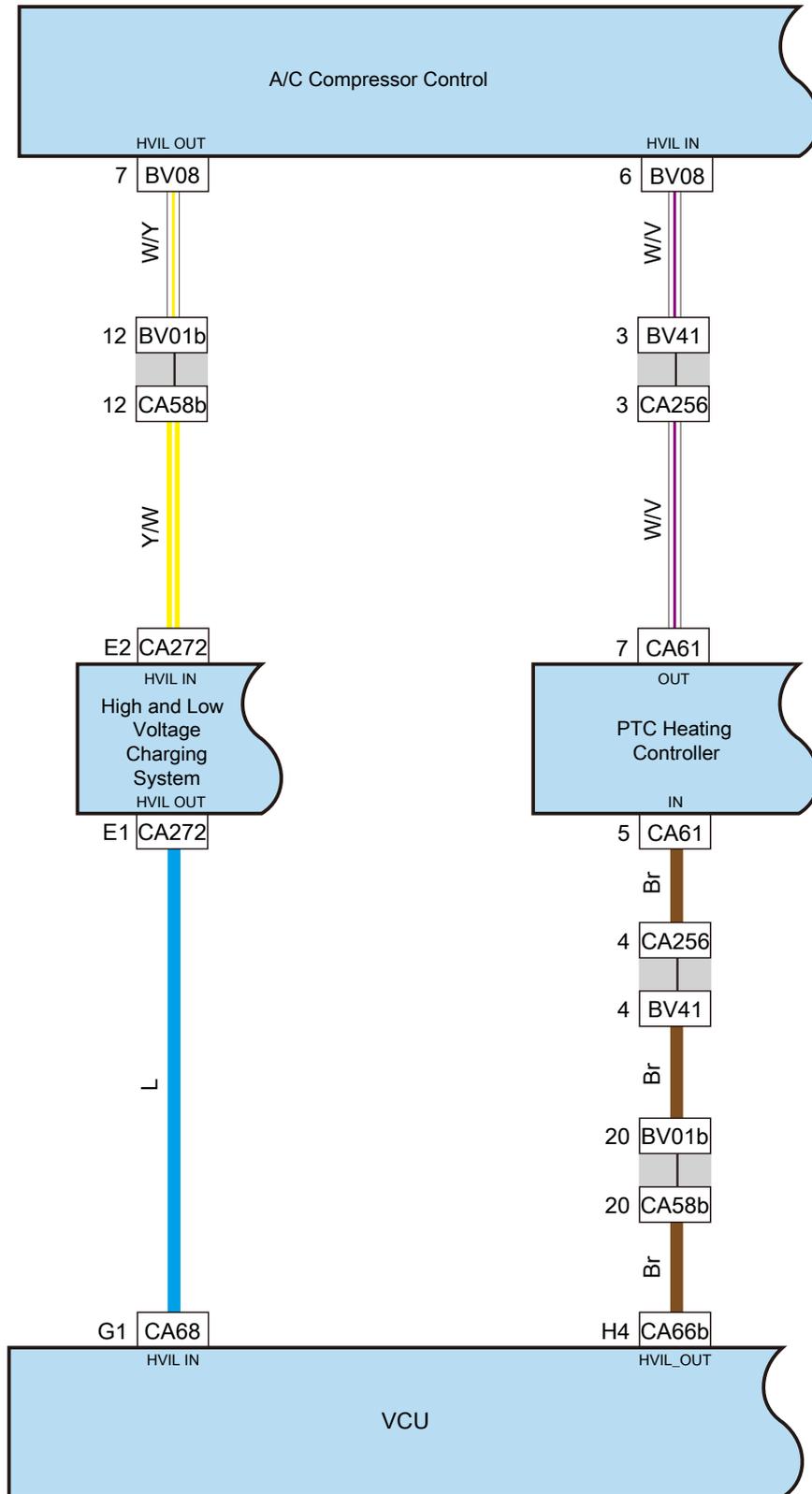


Heat Exchange Control System

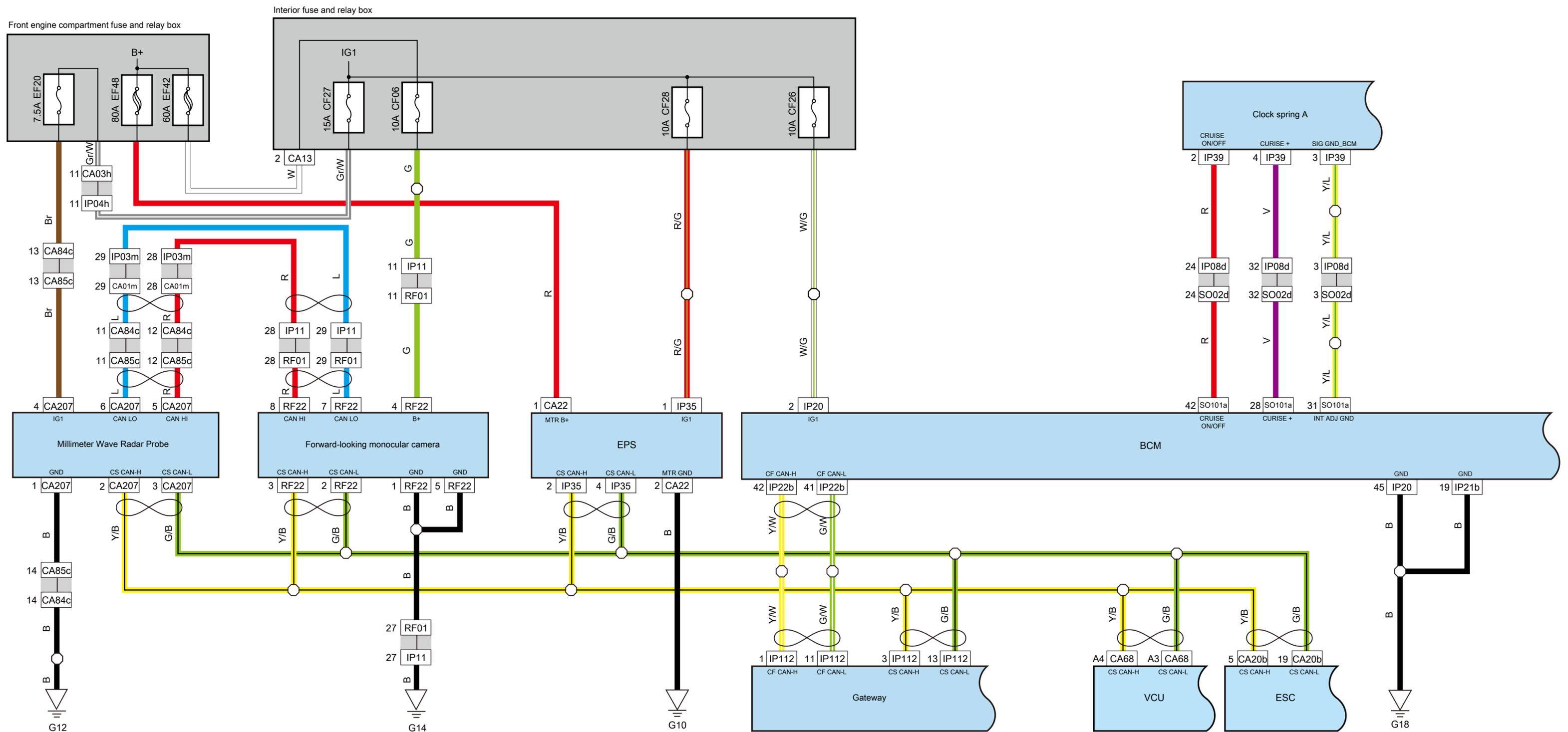
Front engine compartment fuse and relay box



High Voltage Interlock System

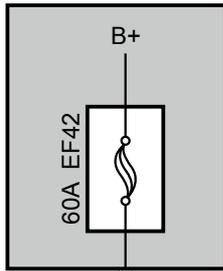


Intelligent cruise control (ICC) system

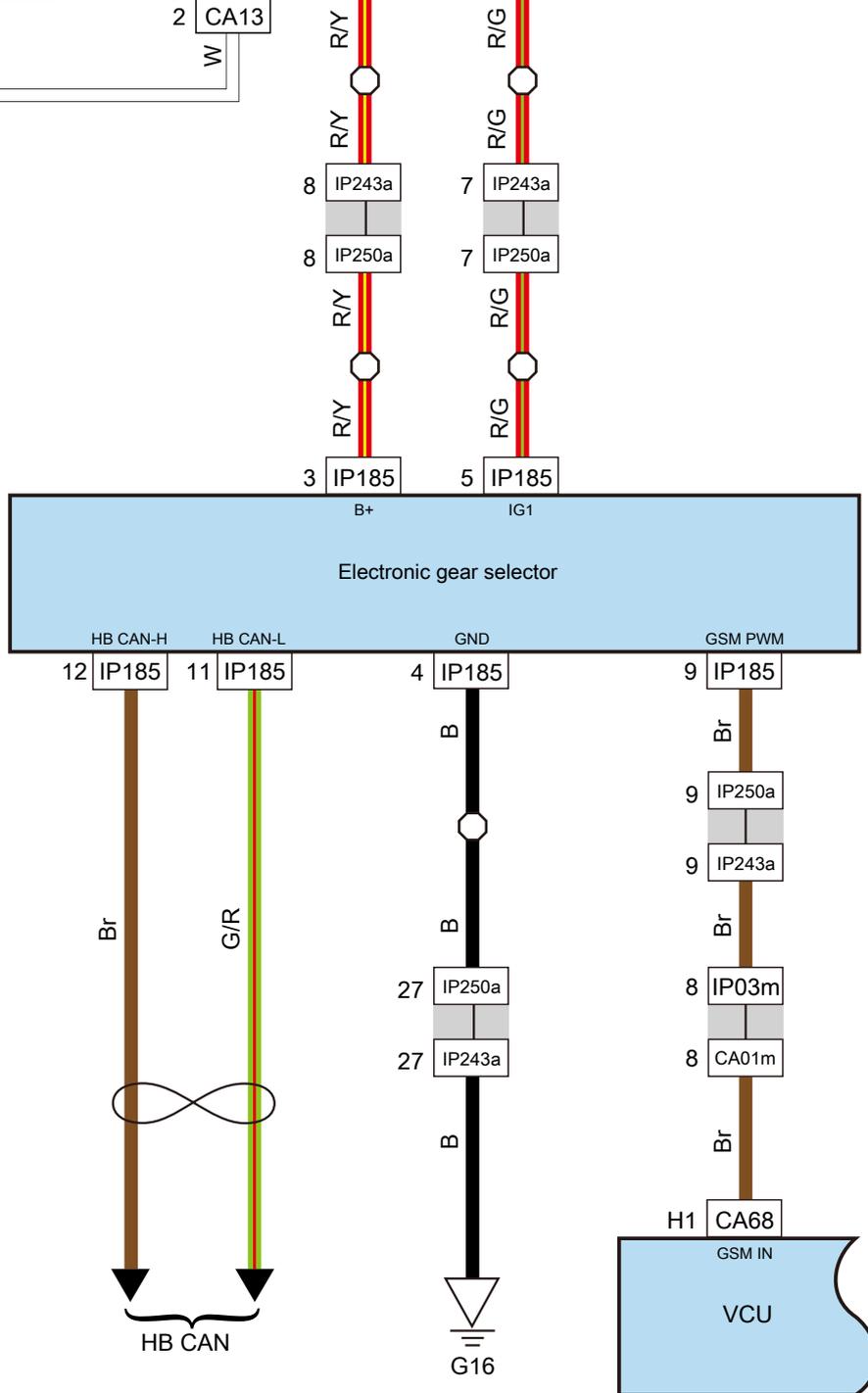
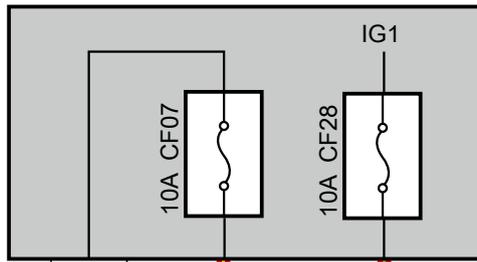


**Electronic shifter**

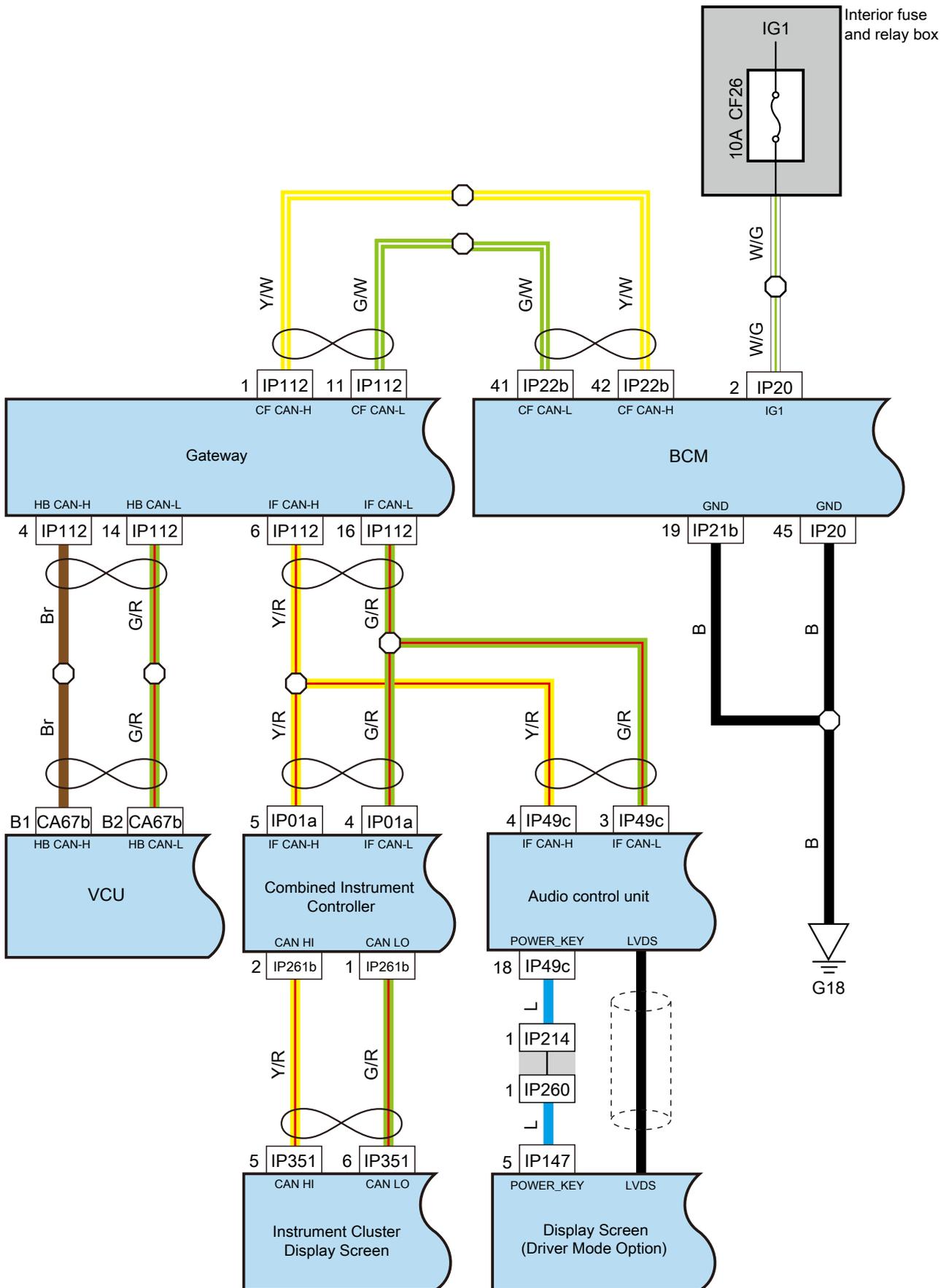
Front engine compartment fuse and relay box



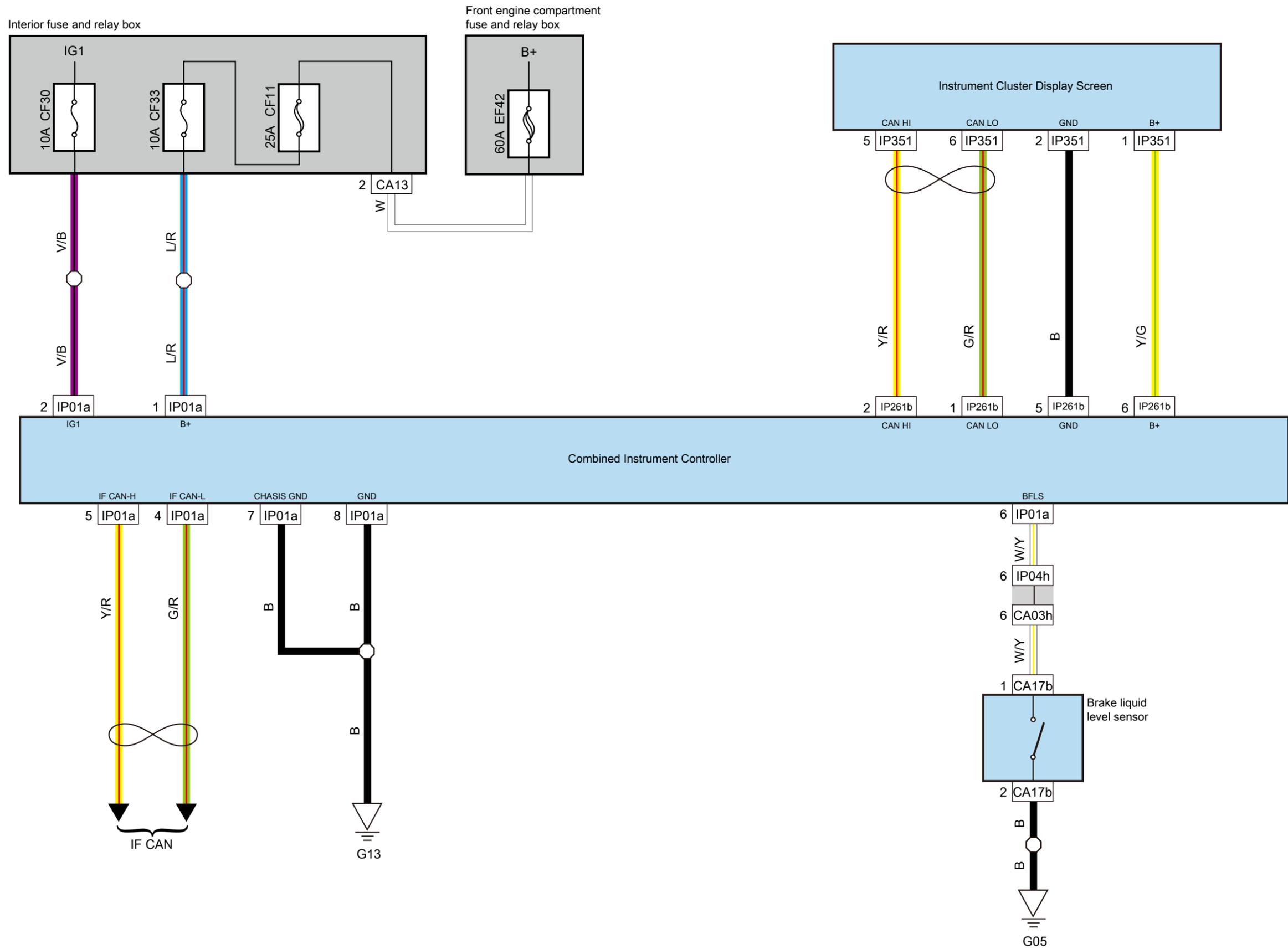
Interior fuse and relay box



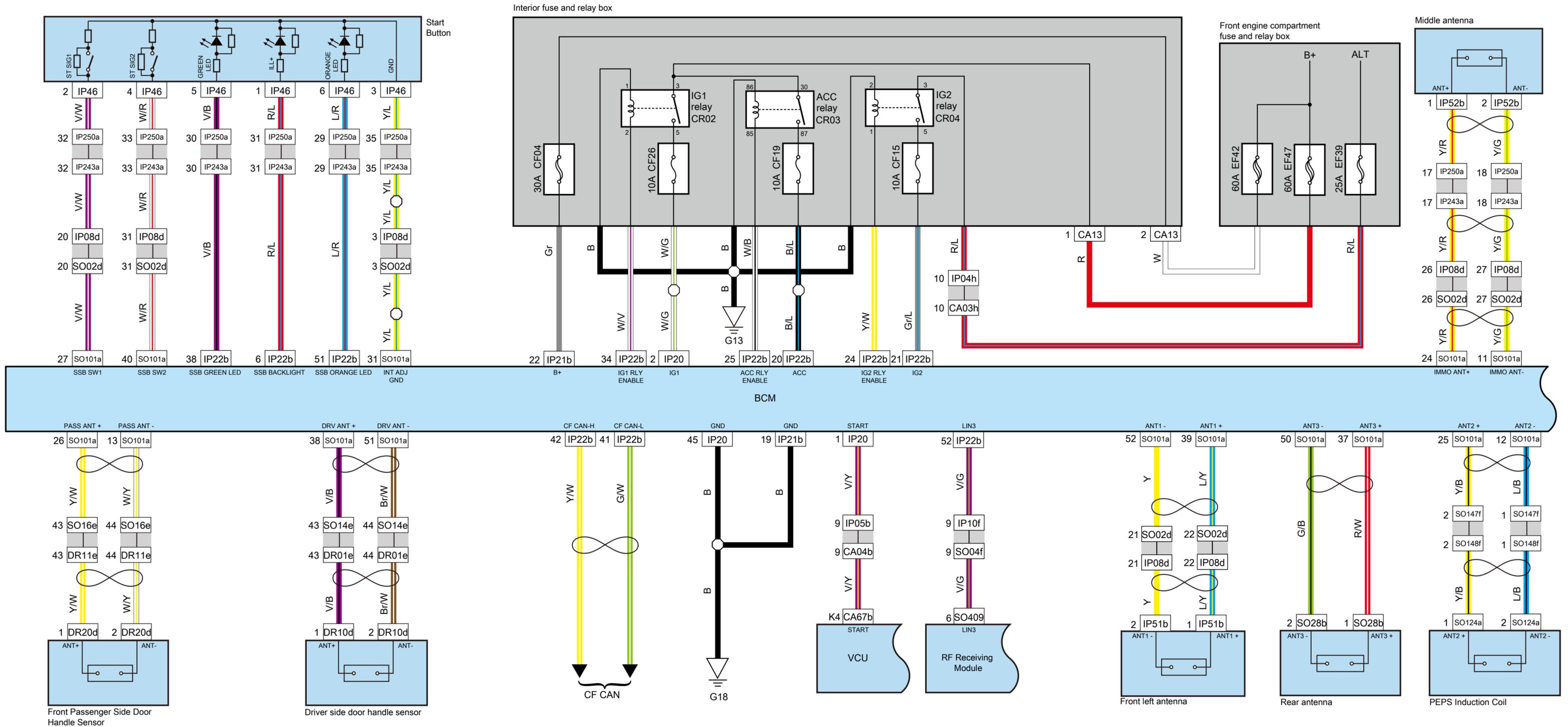
Drive mode switch



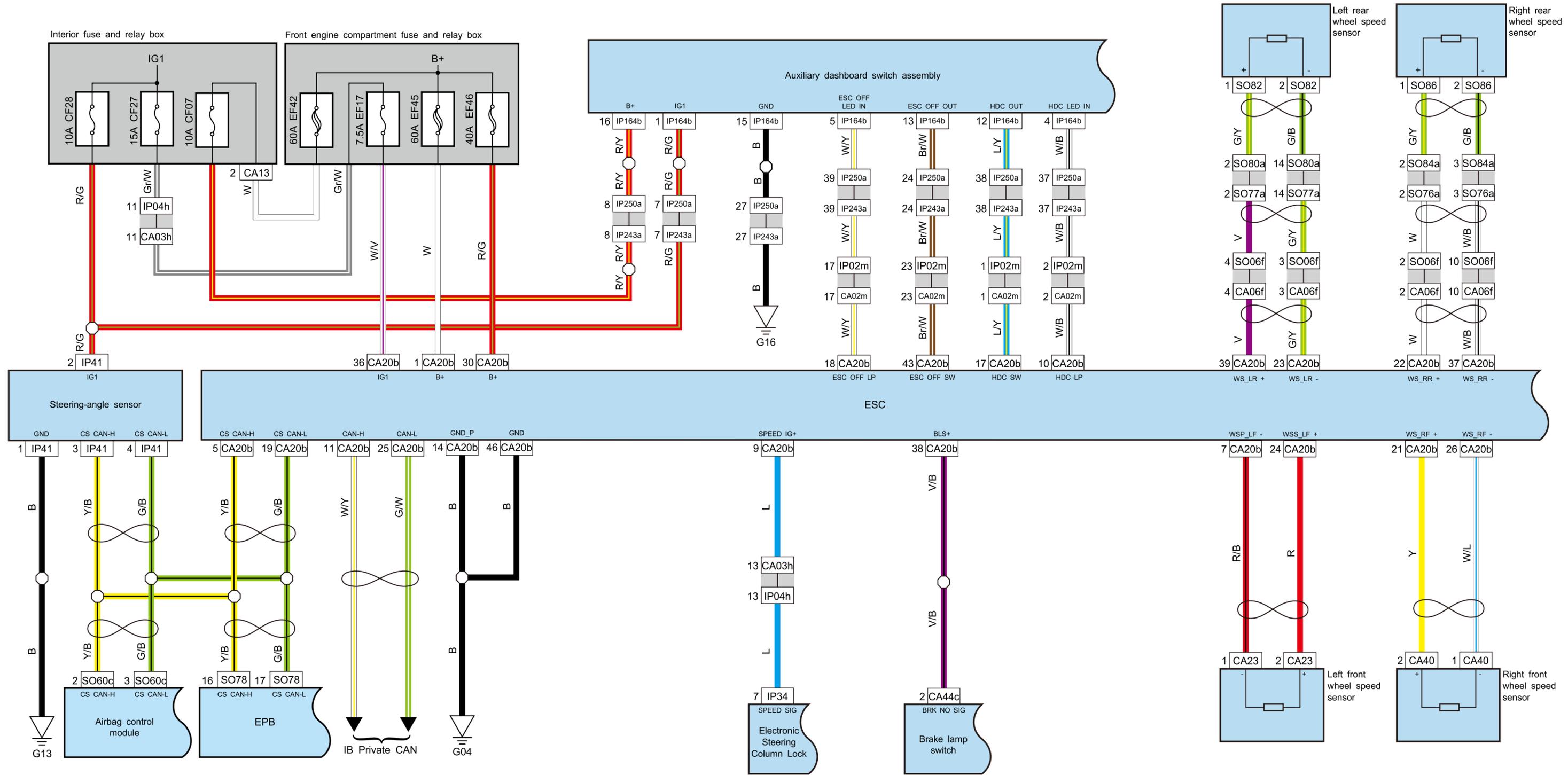
Instrument Cluster



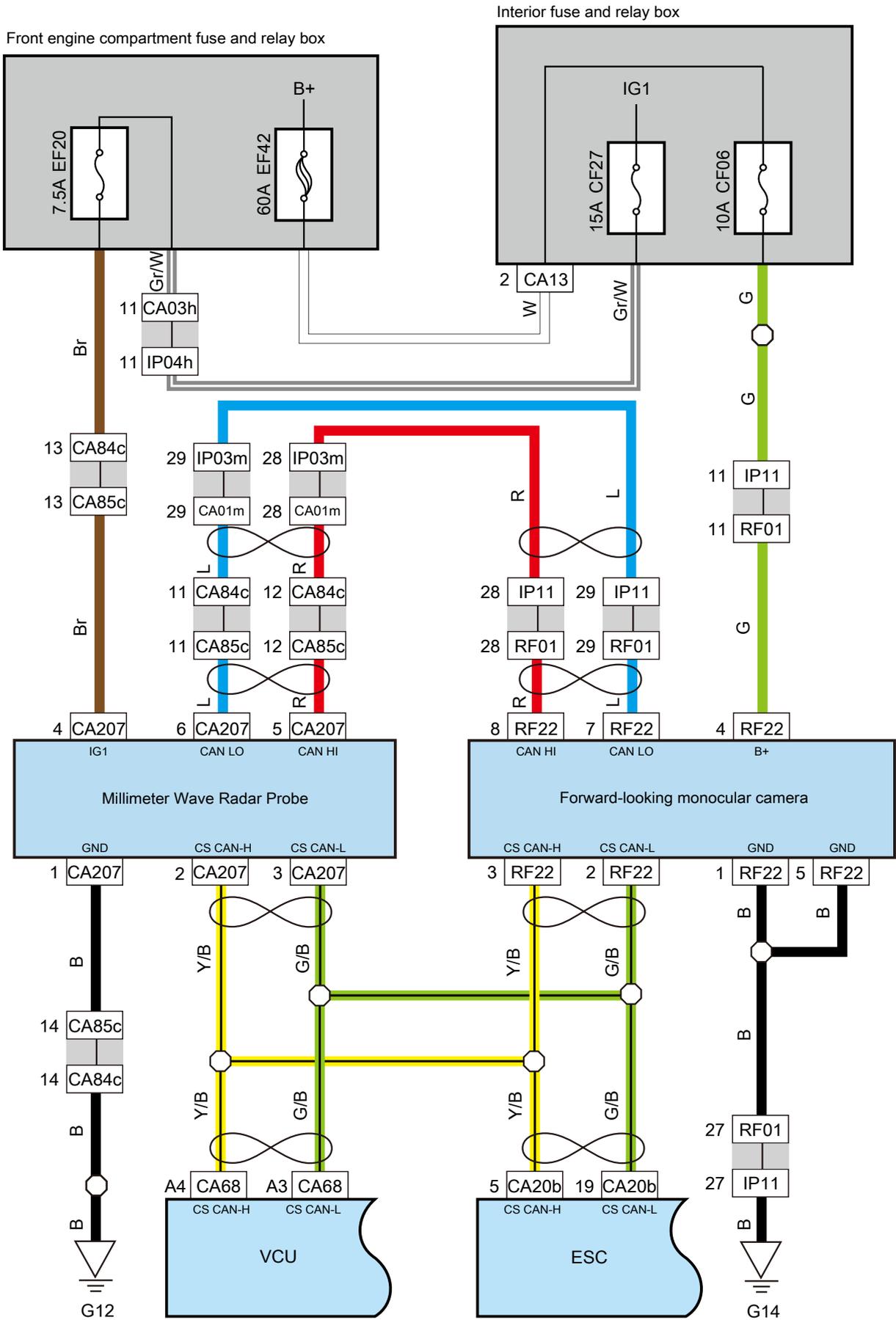
PEPS



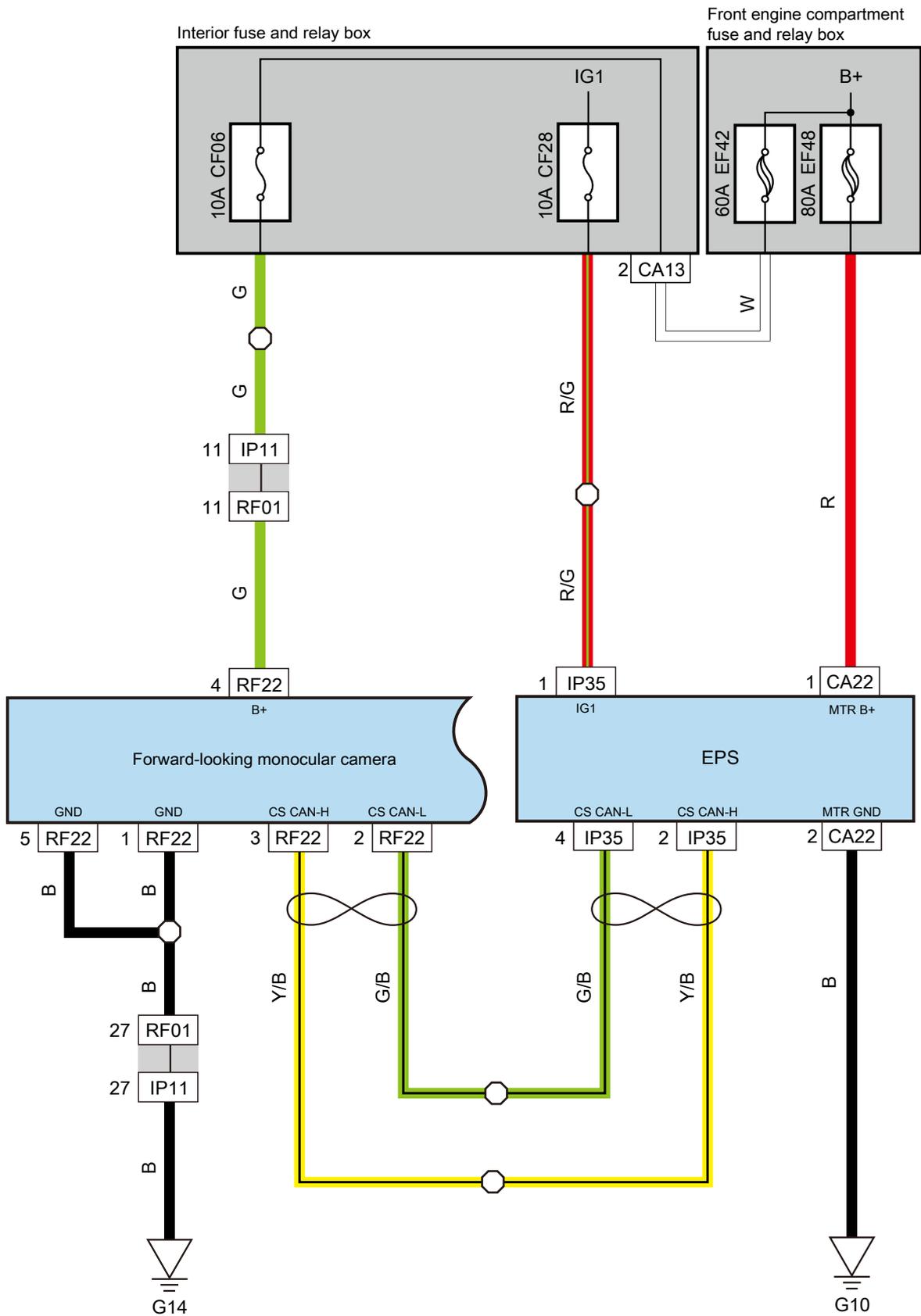
ESC



Early Warning Braking



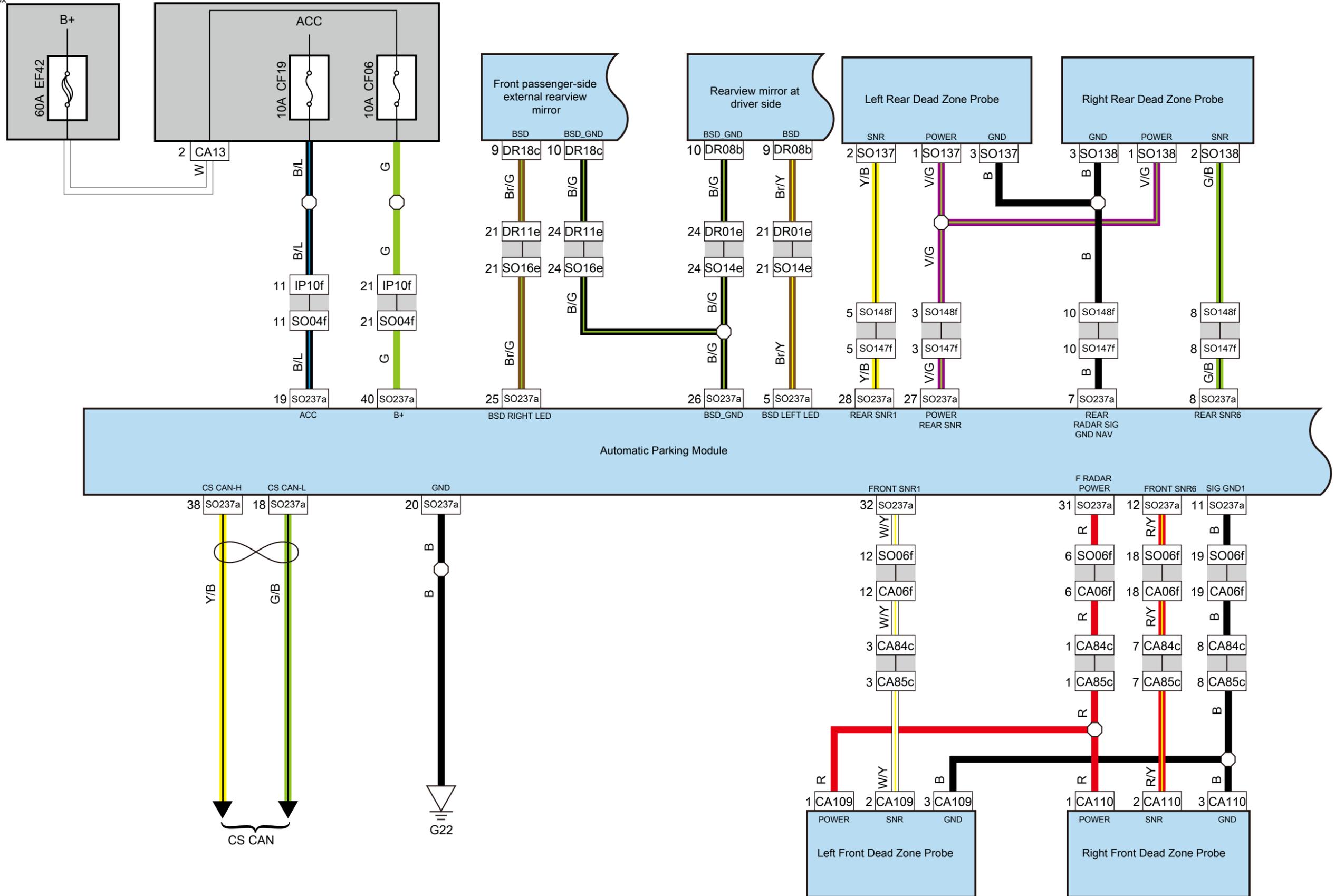
Lane departure warning



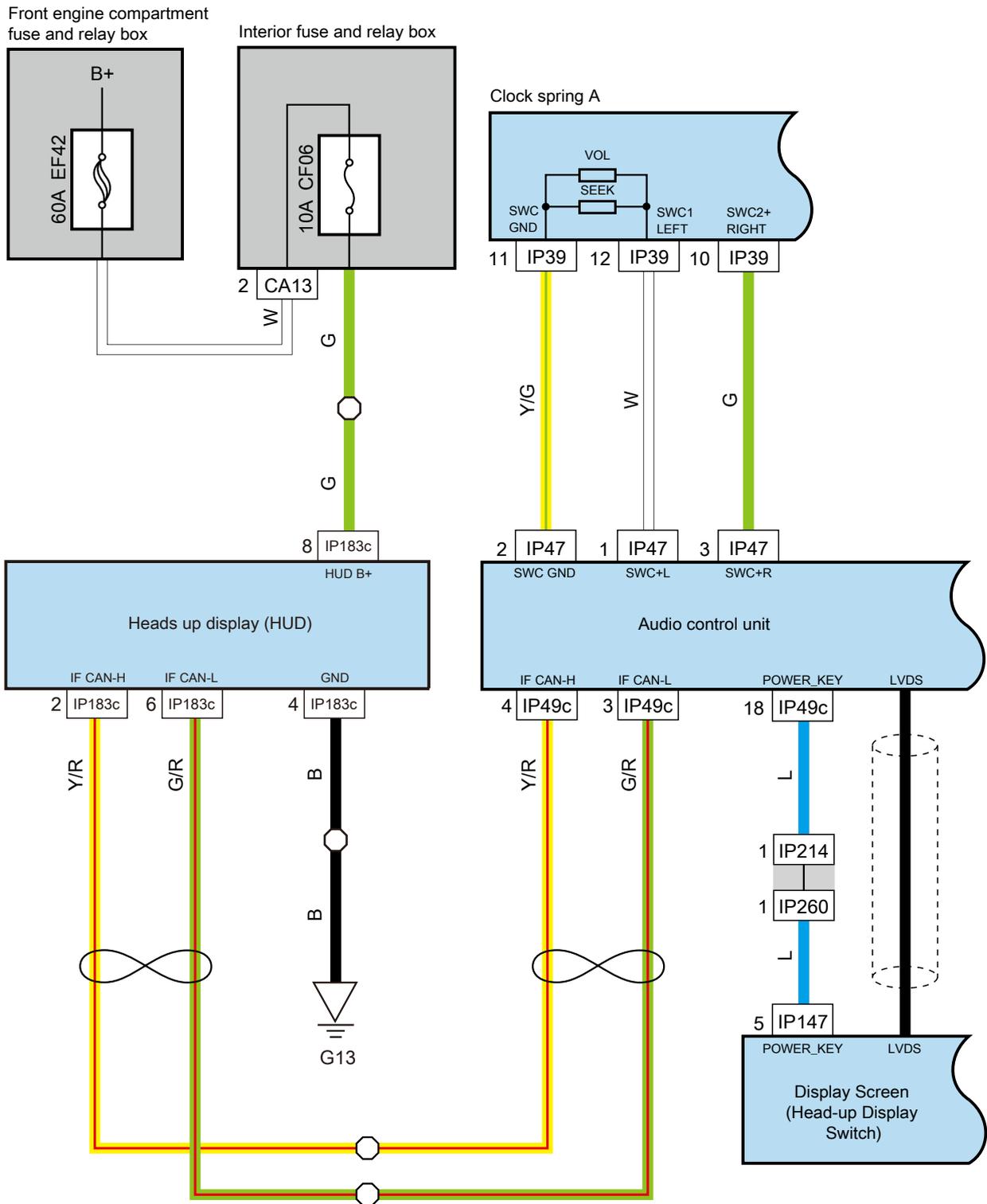
**Blind Area Monitoring**

Front engine compartment fuse and relay box

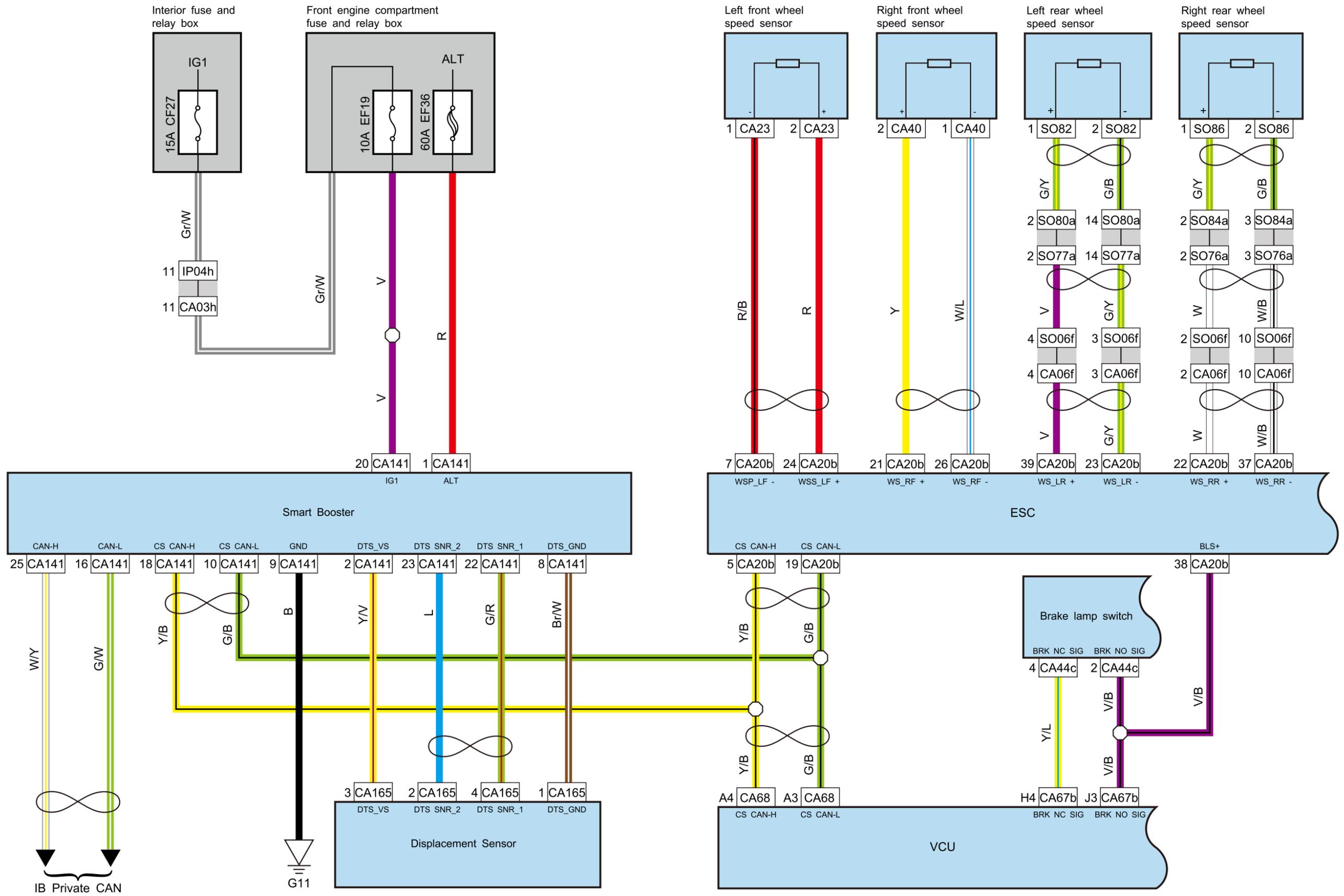
Interior fuse and relay box



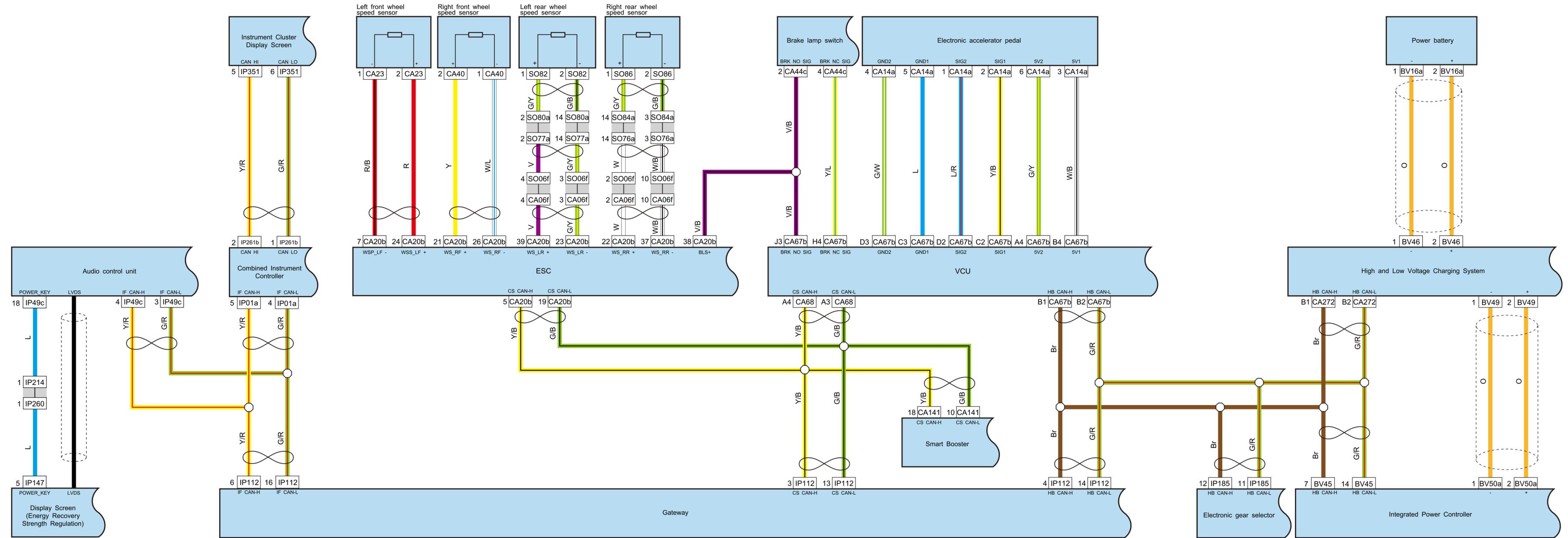
## Heads up display (HUD)



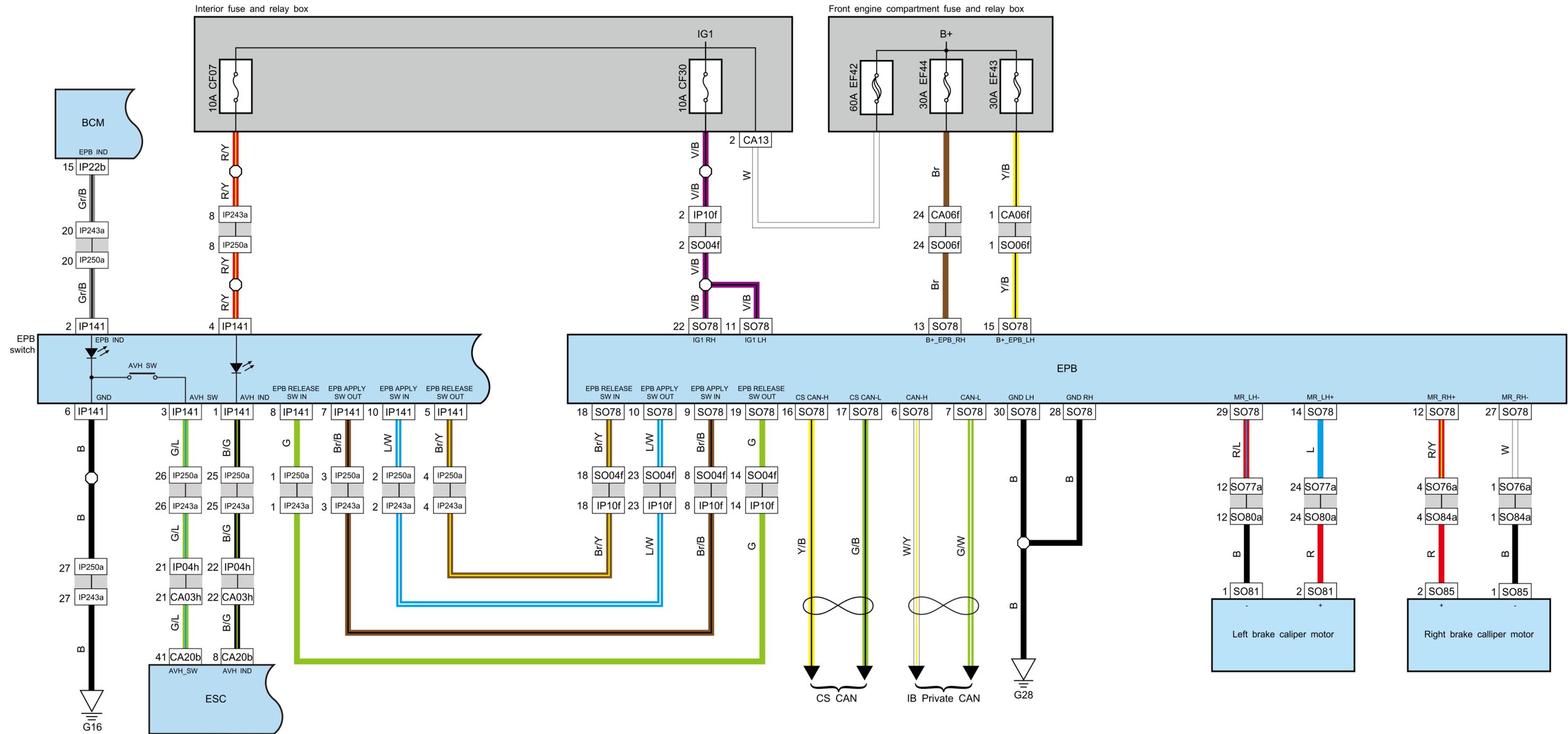
Smart Booster



Brake Energy Recovery

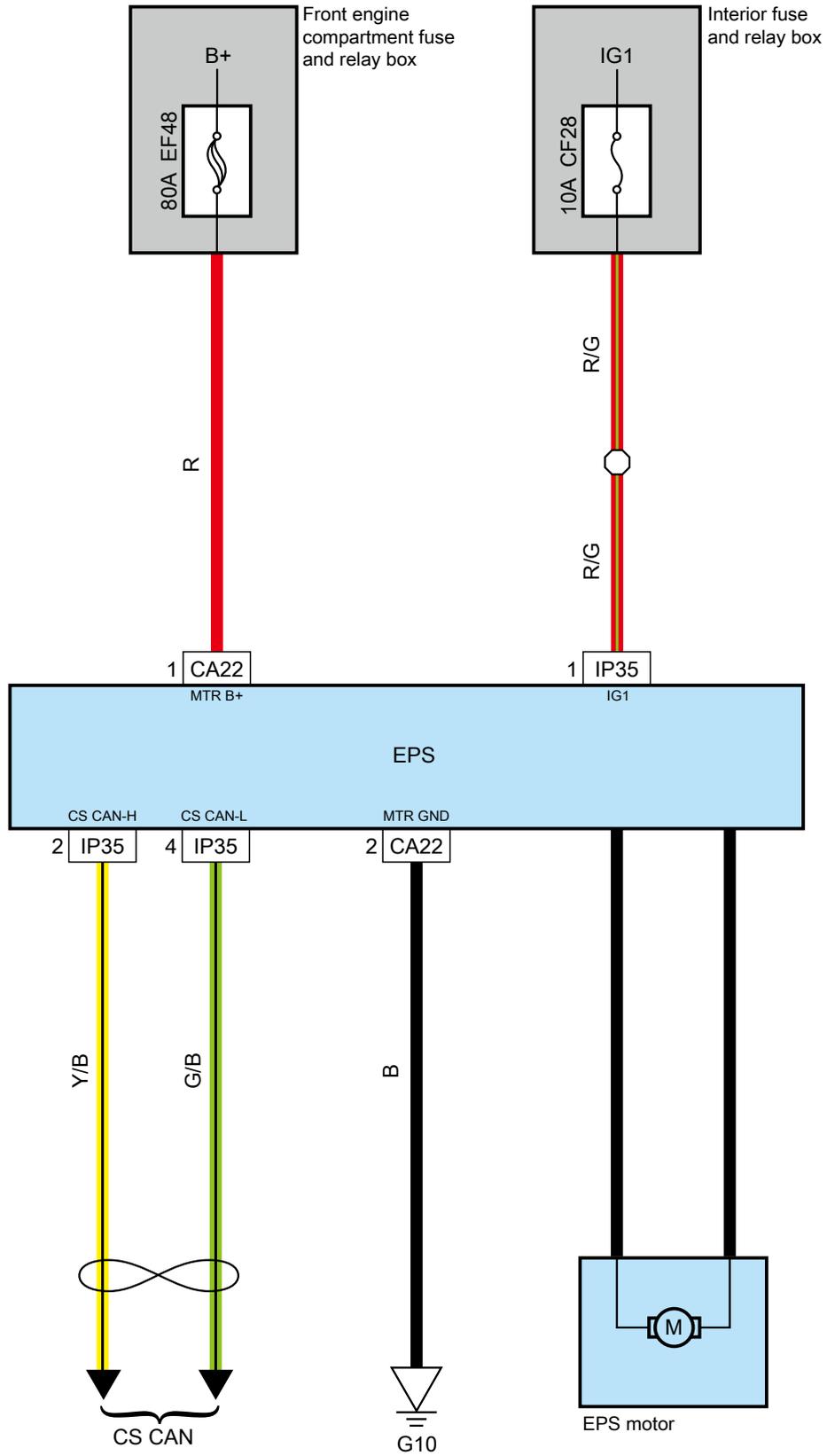


EPB

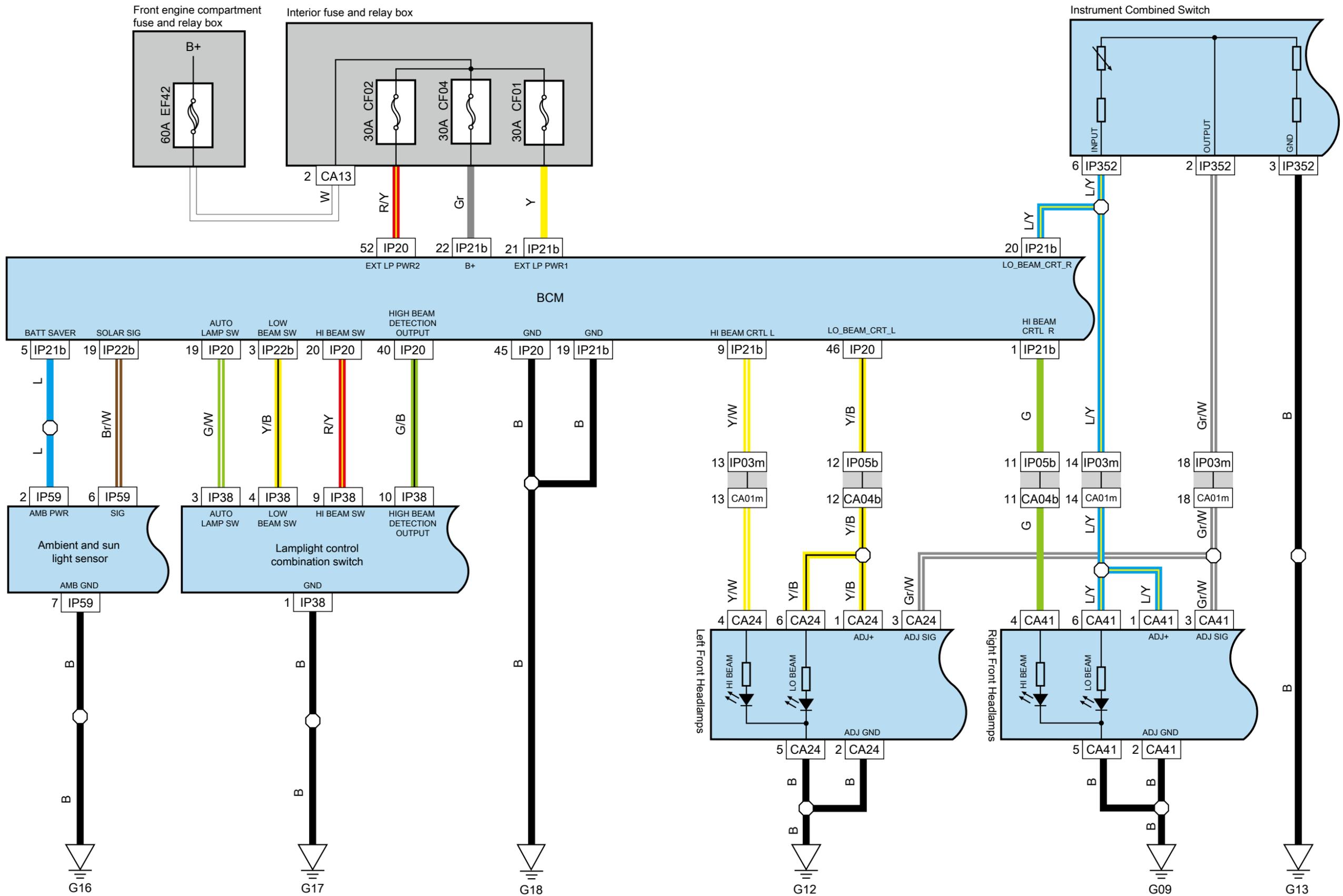




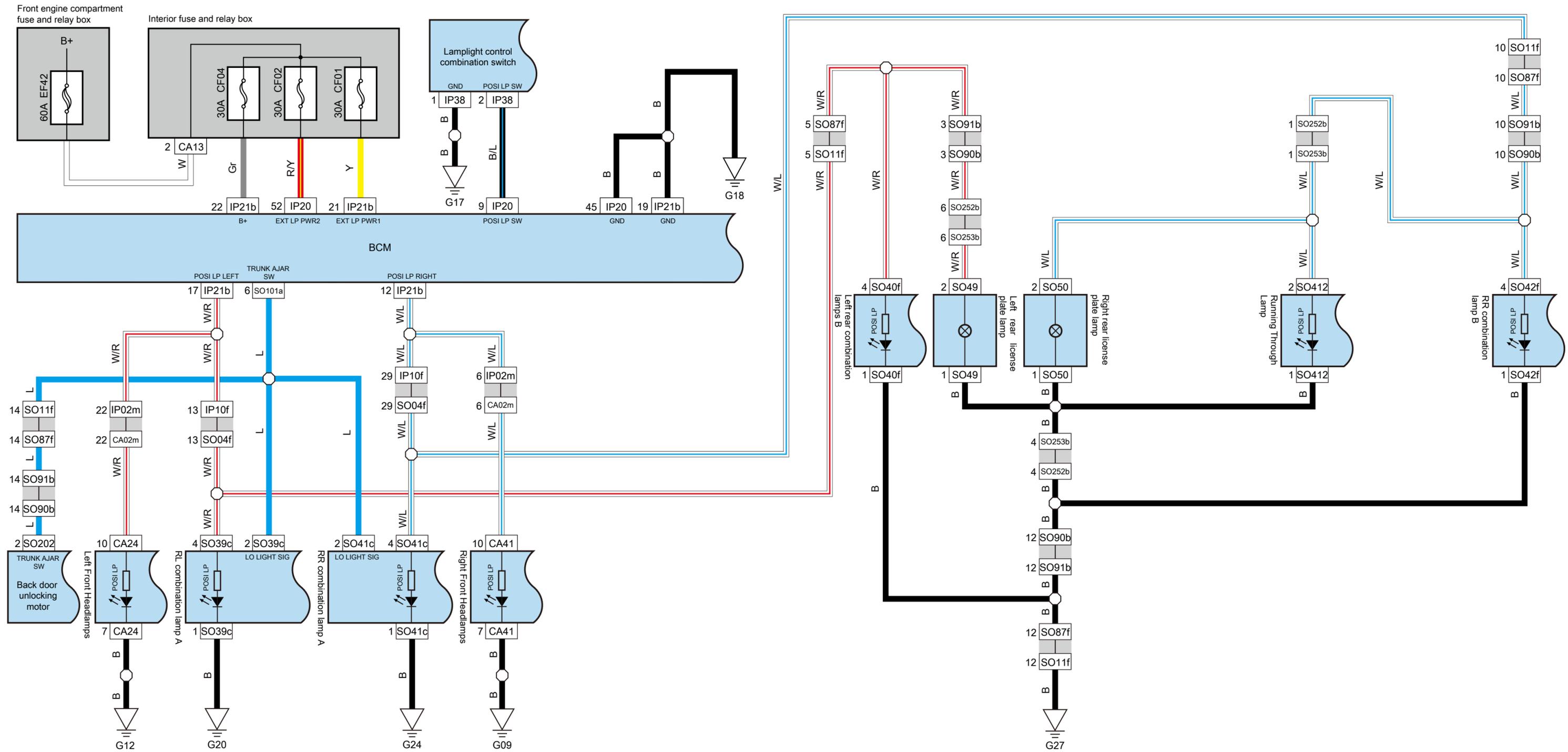
Electric Power Steering



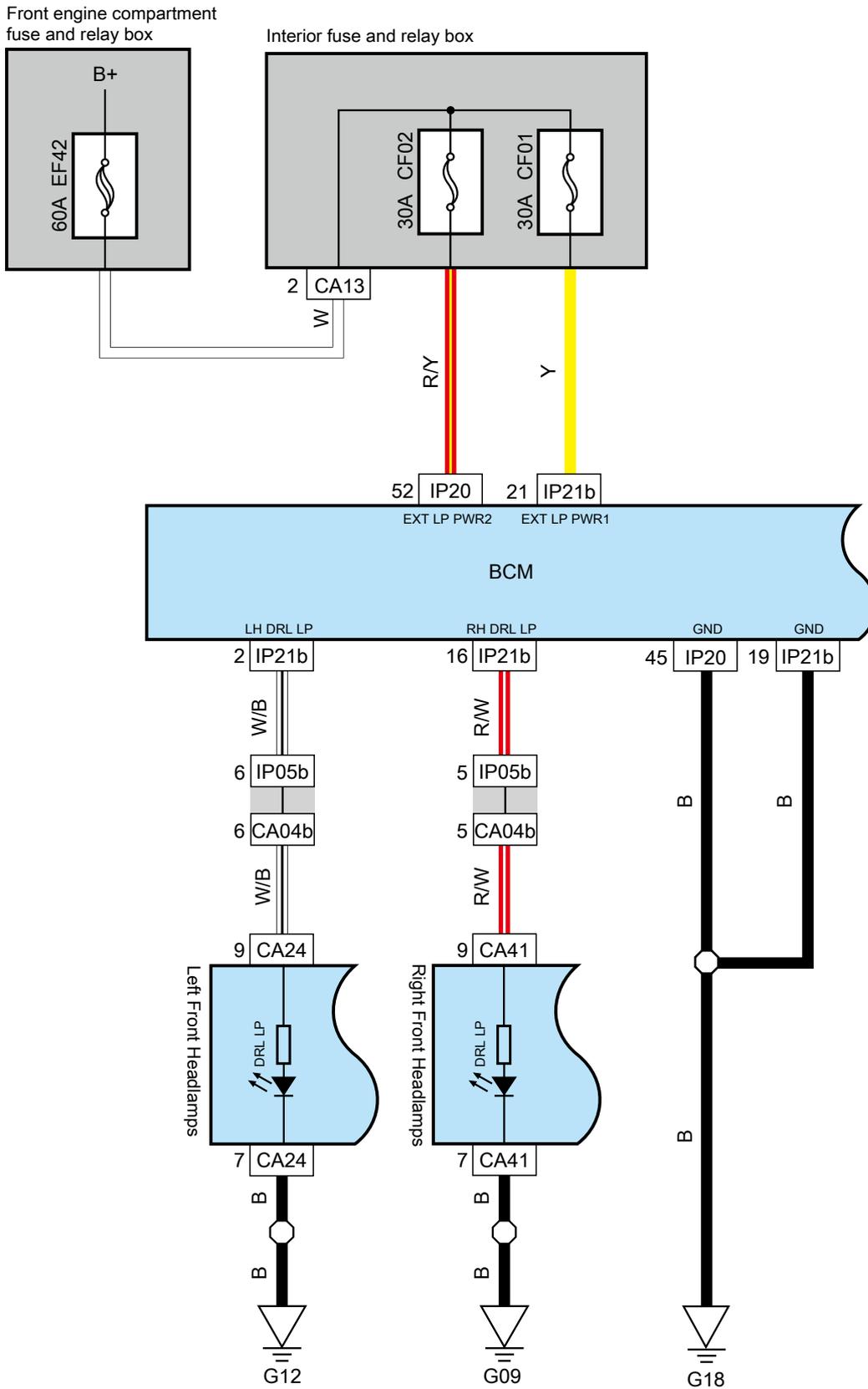
Headlamps



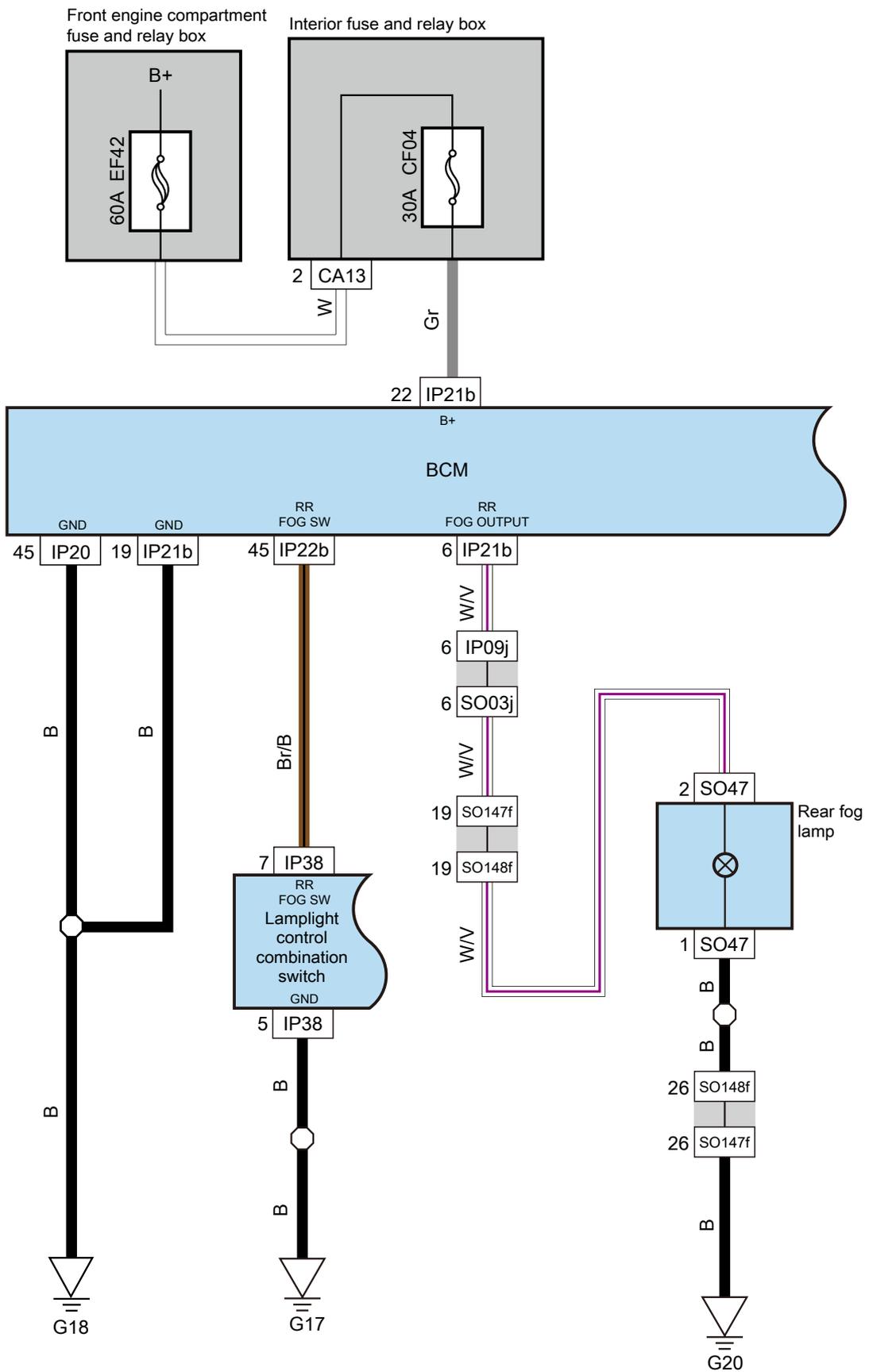
Position lamp, license plate lamp



Daytime Running Lamps

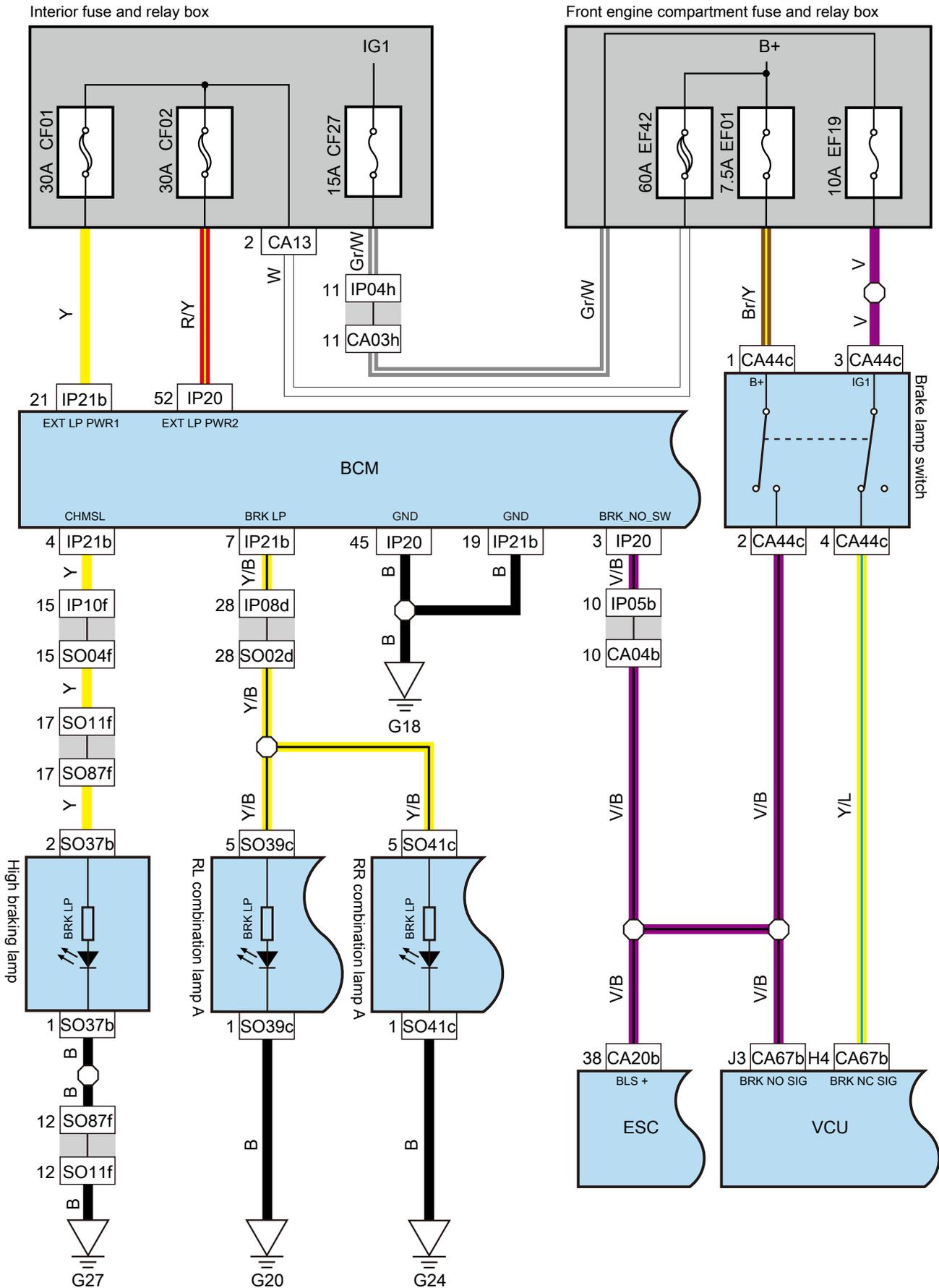


# Fog Lamp

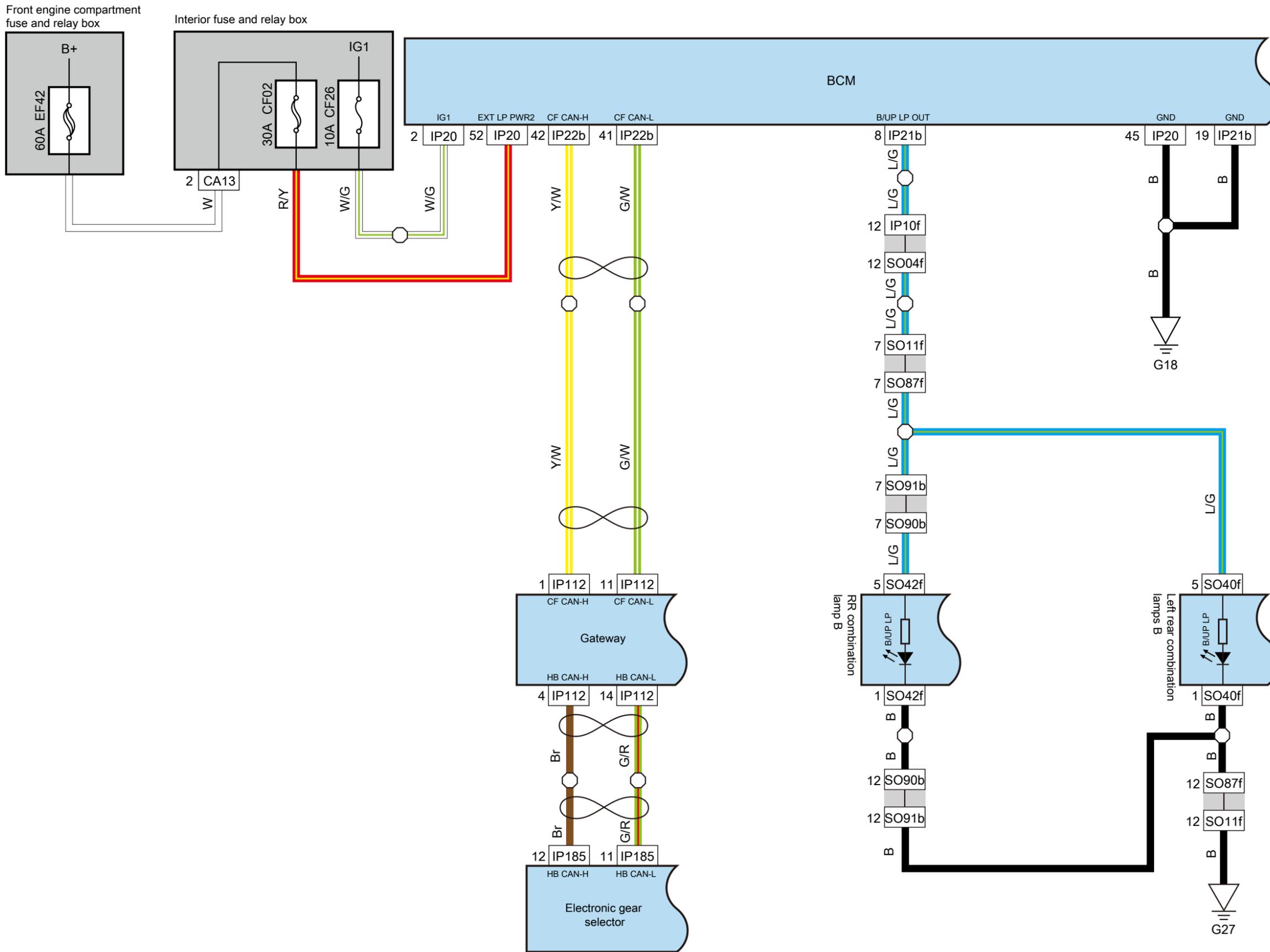




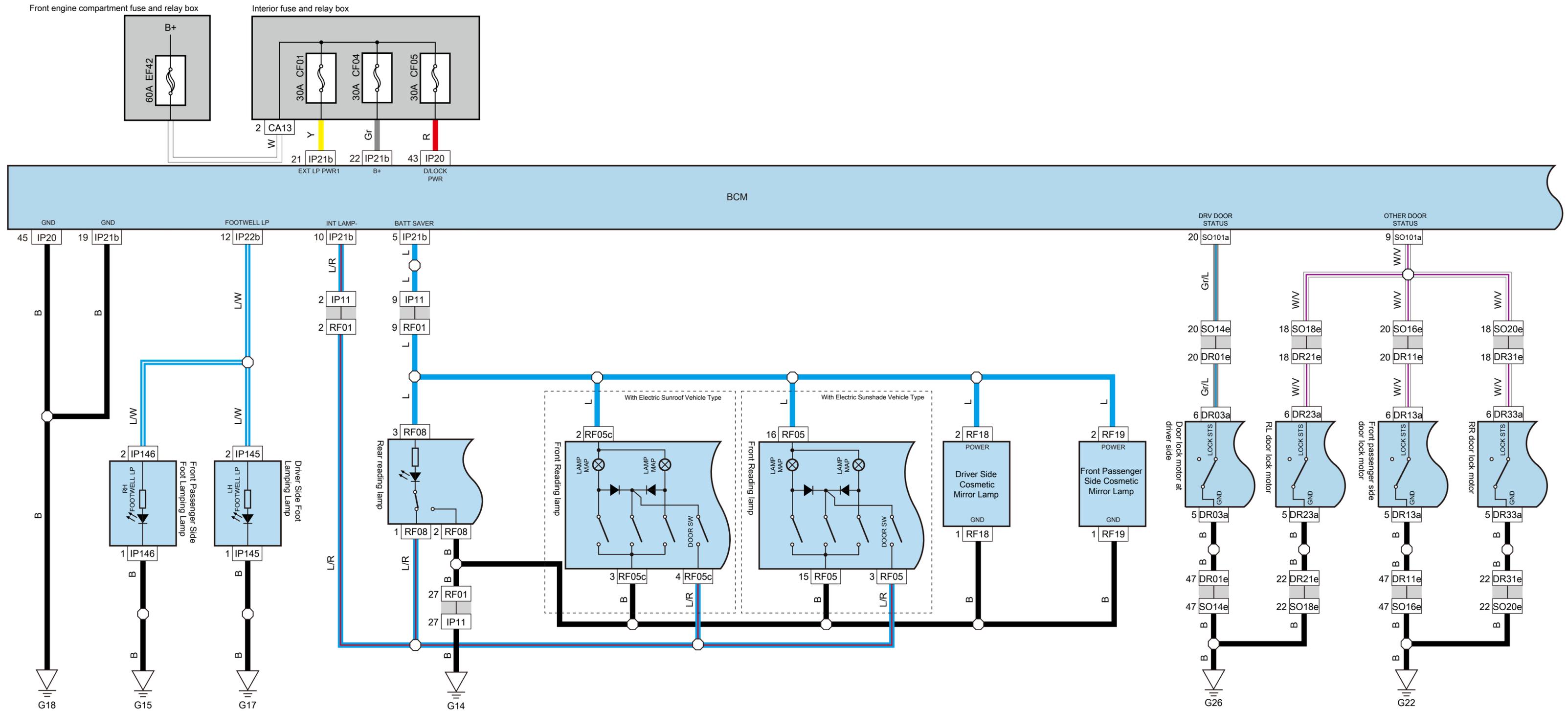
# Braking Lamp



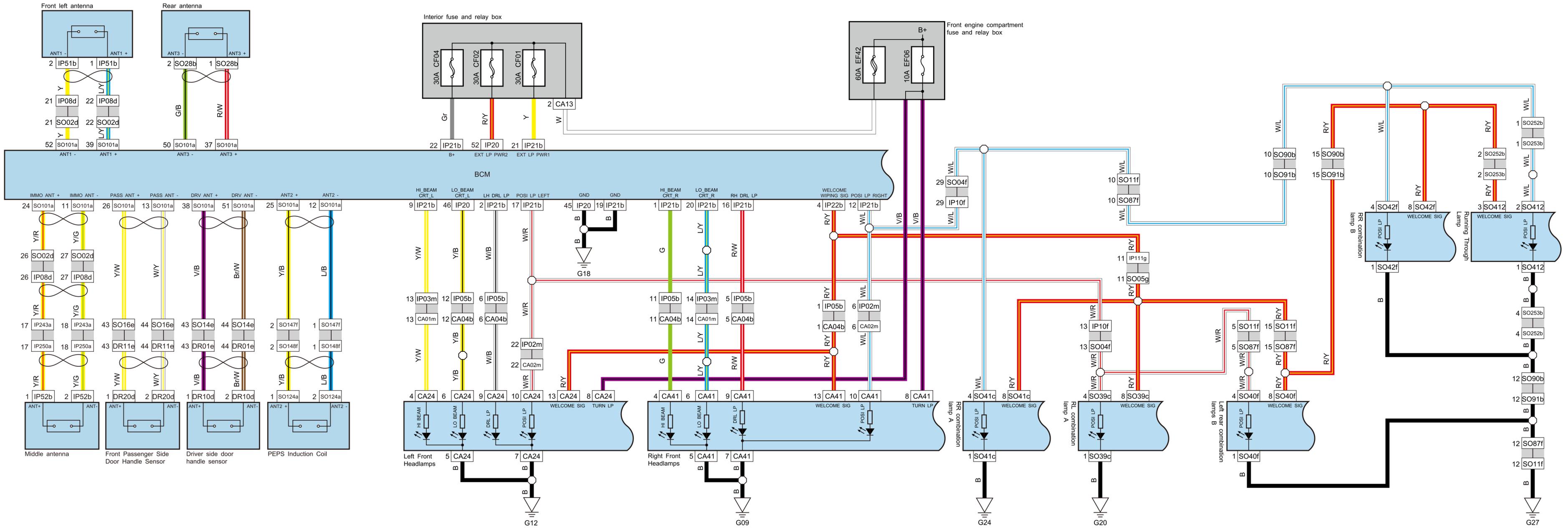
Reverse Lamp



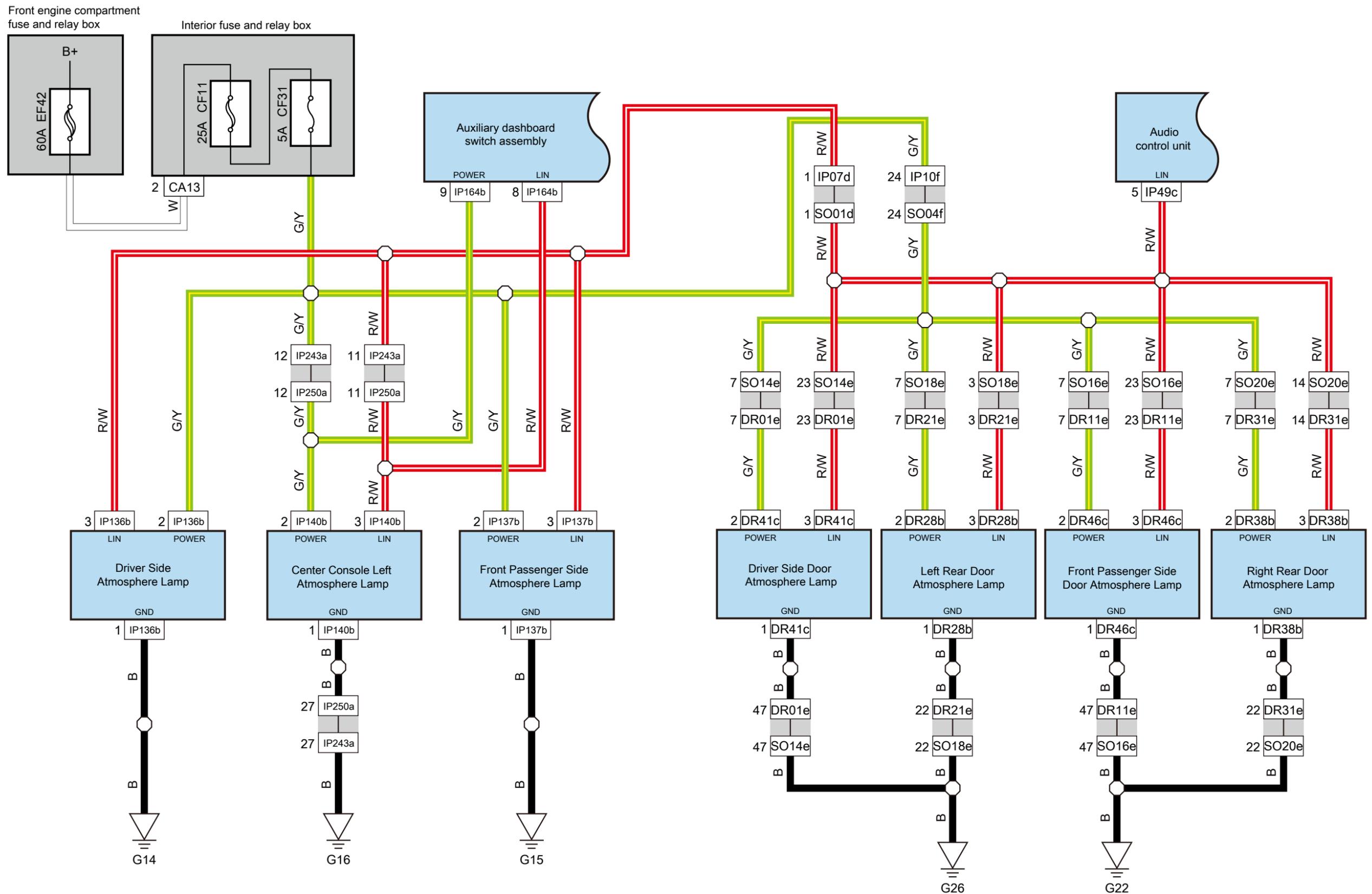
Interior Lamps



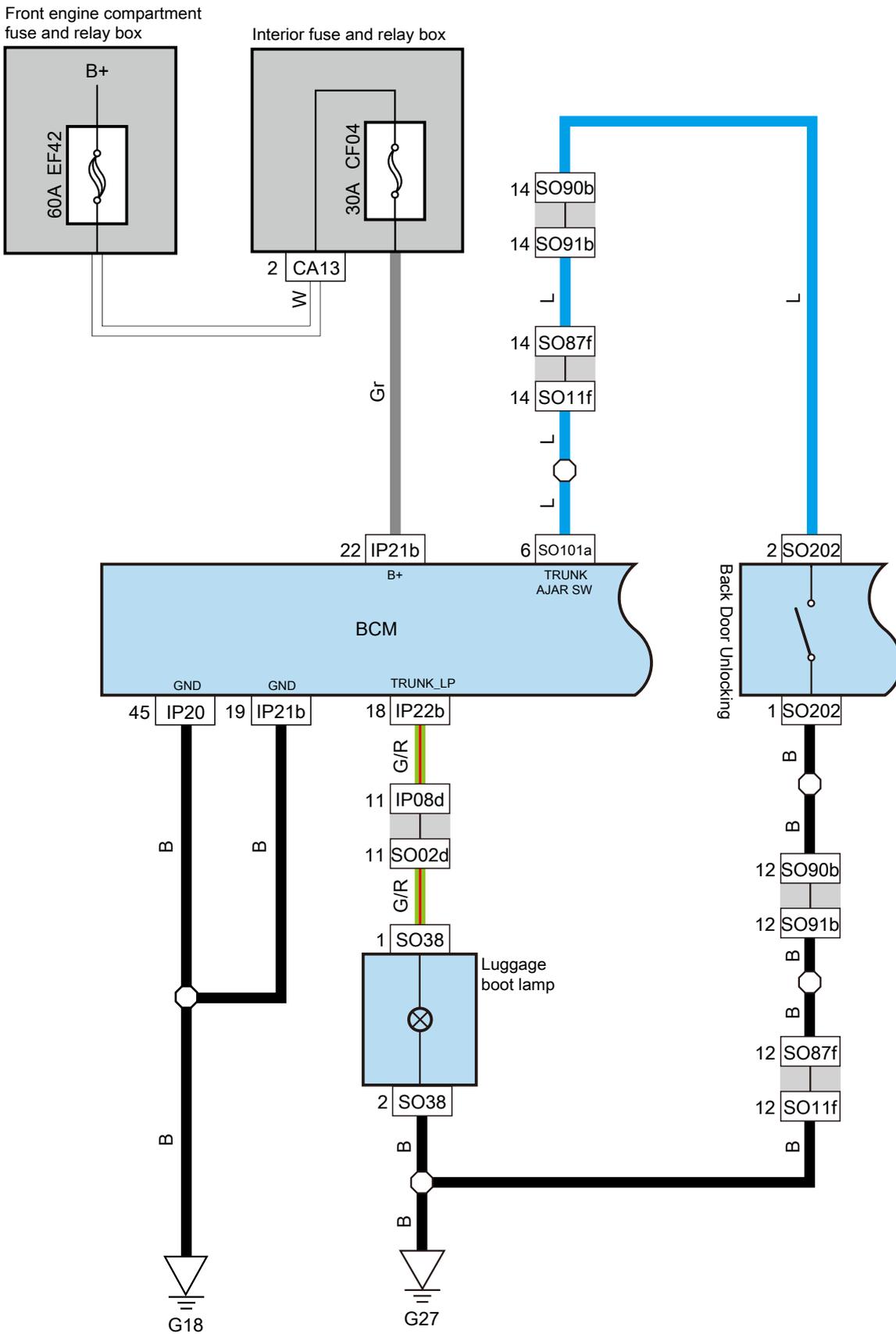
Courtesy Lamp



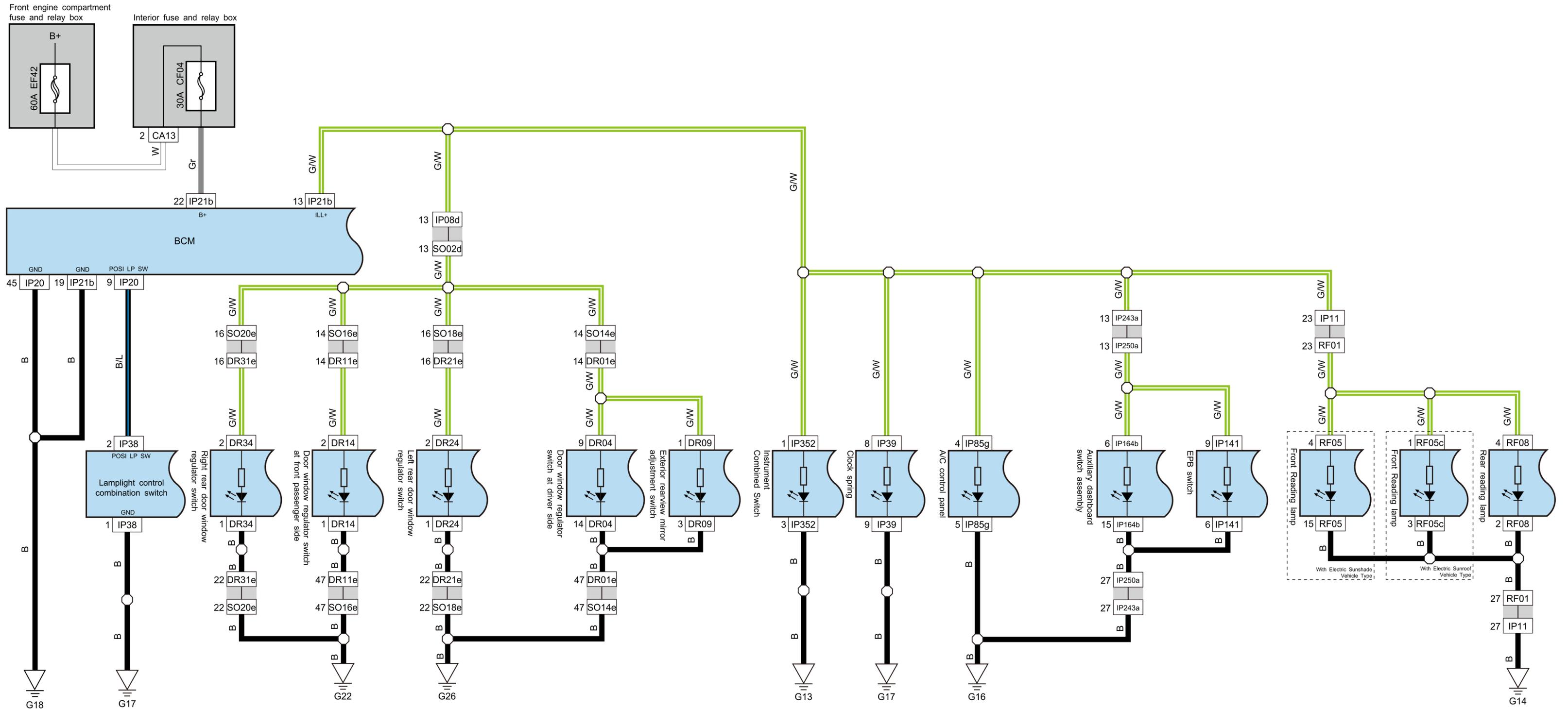
Ambient lamp



## Luggage boot lamp



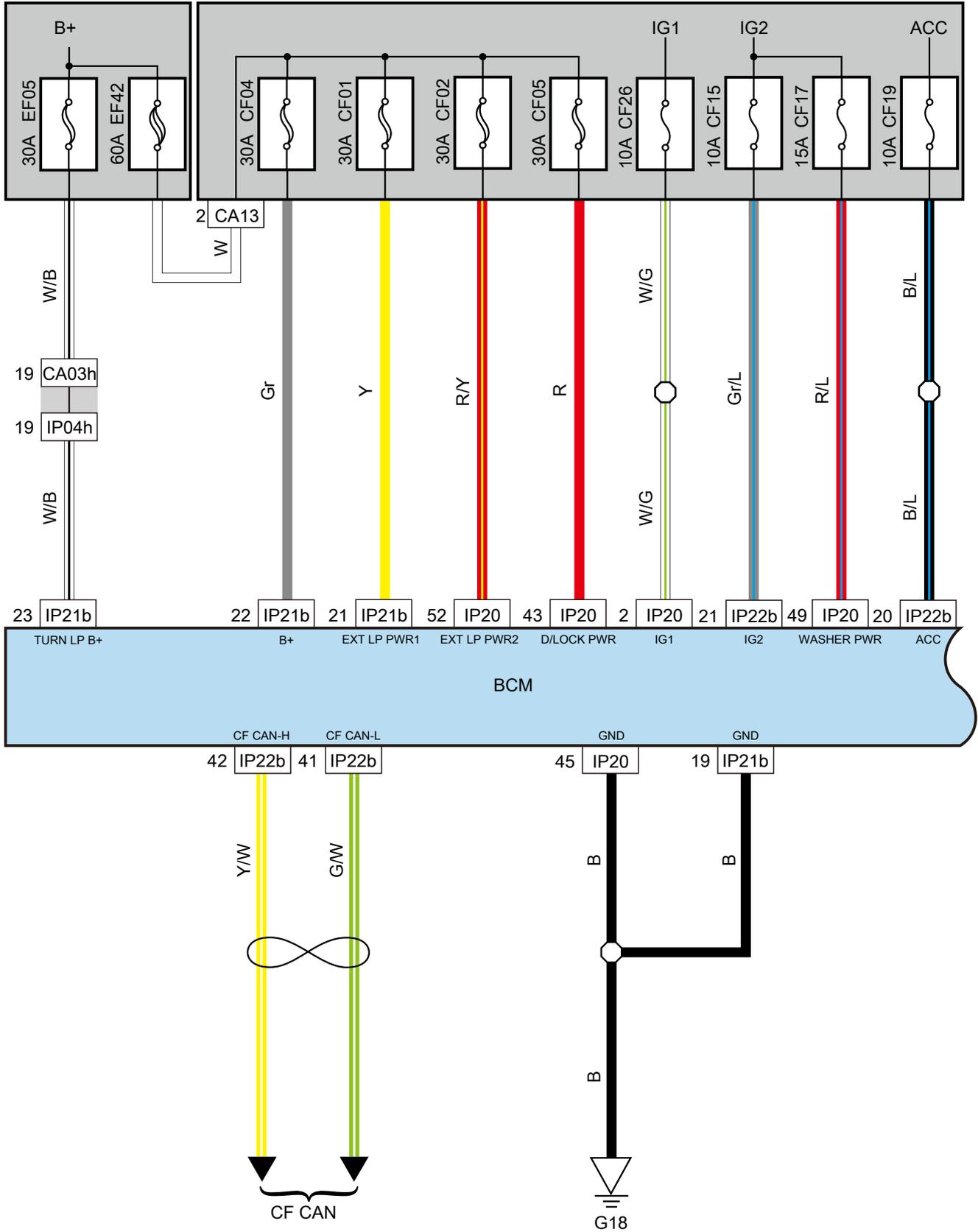
Back Lighting



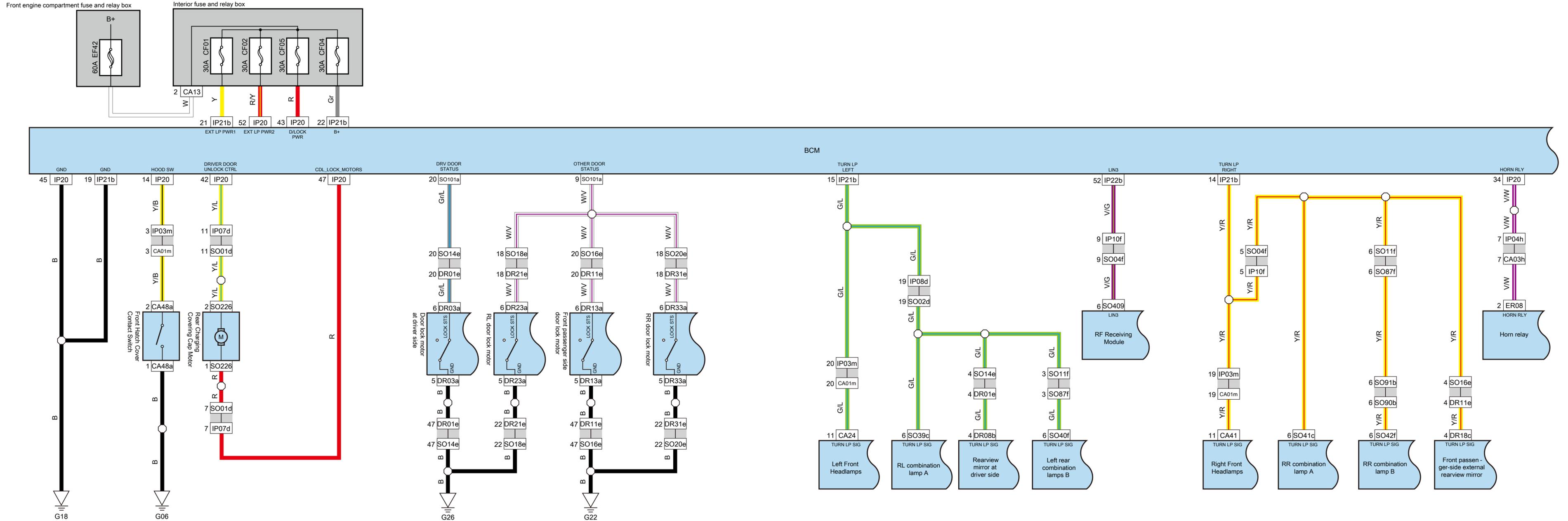
**BCM**

Front engine compartment fuse and relay box

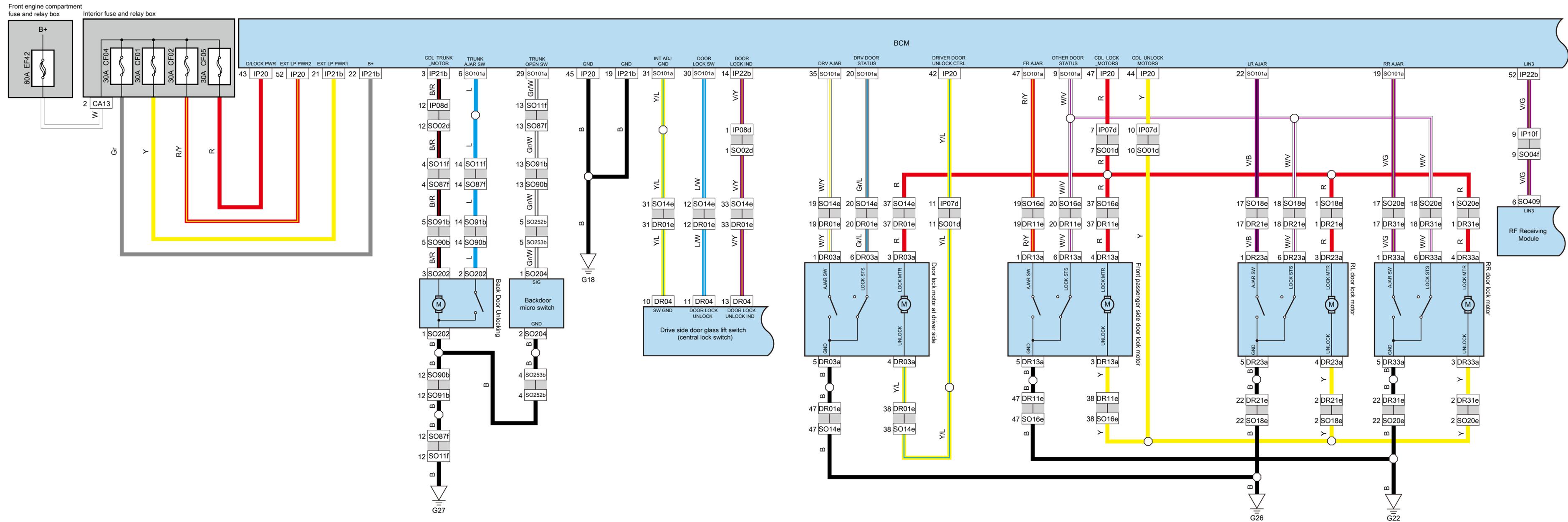
Interior fuse and relay box



Body Anti-theft Control System

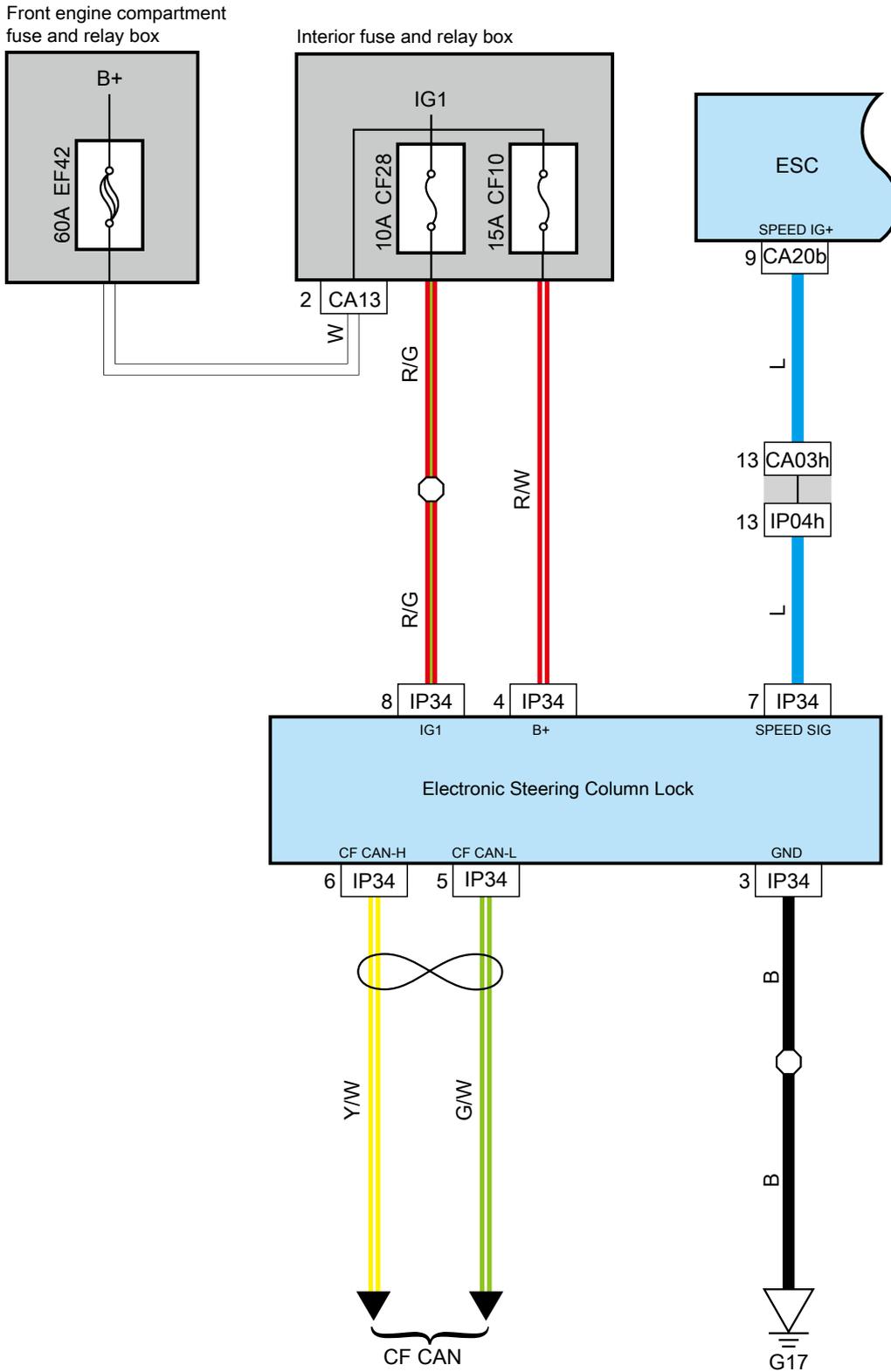


Central lock

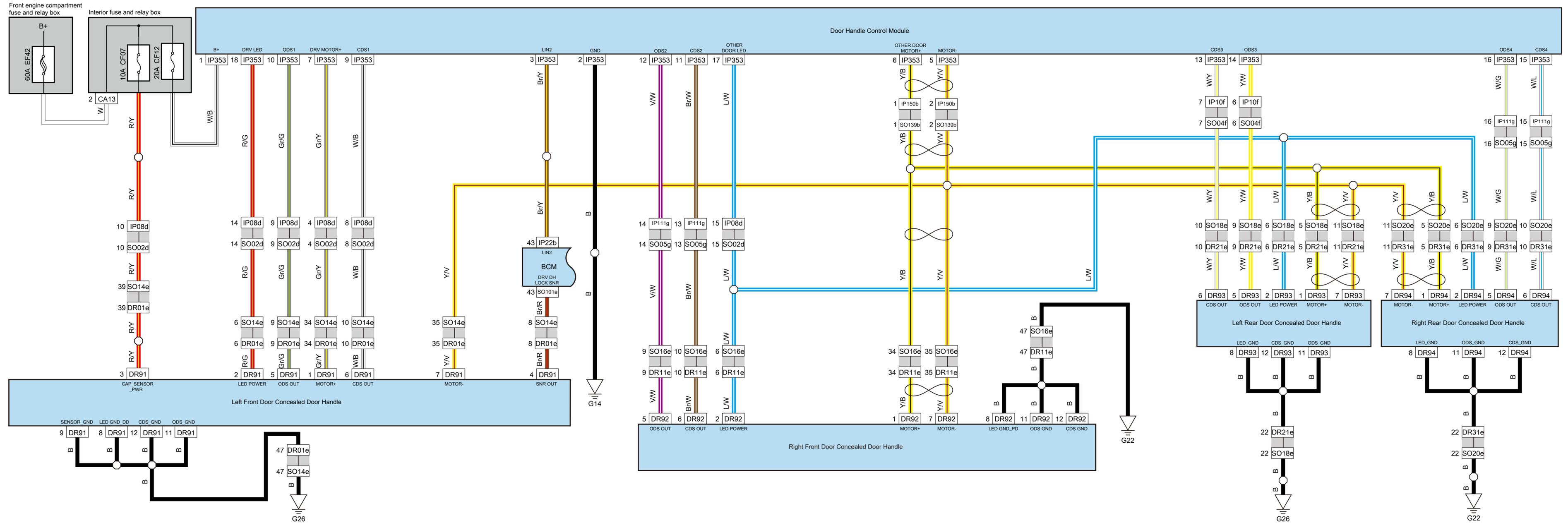


# 13.6.14 Body anti-theft and door lock system

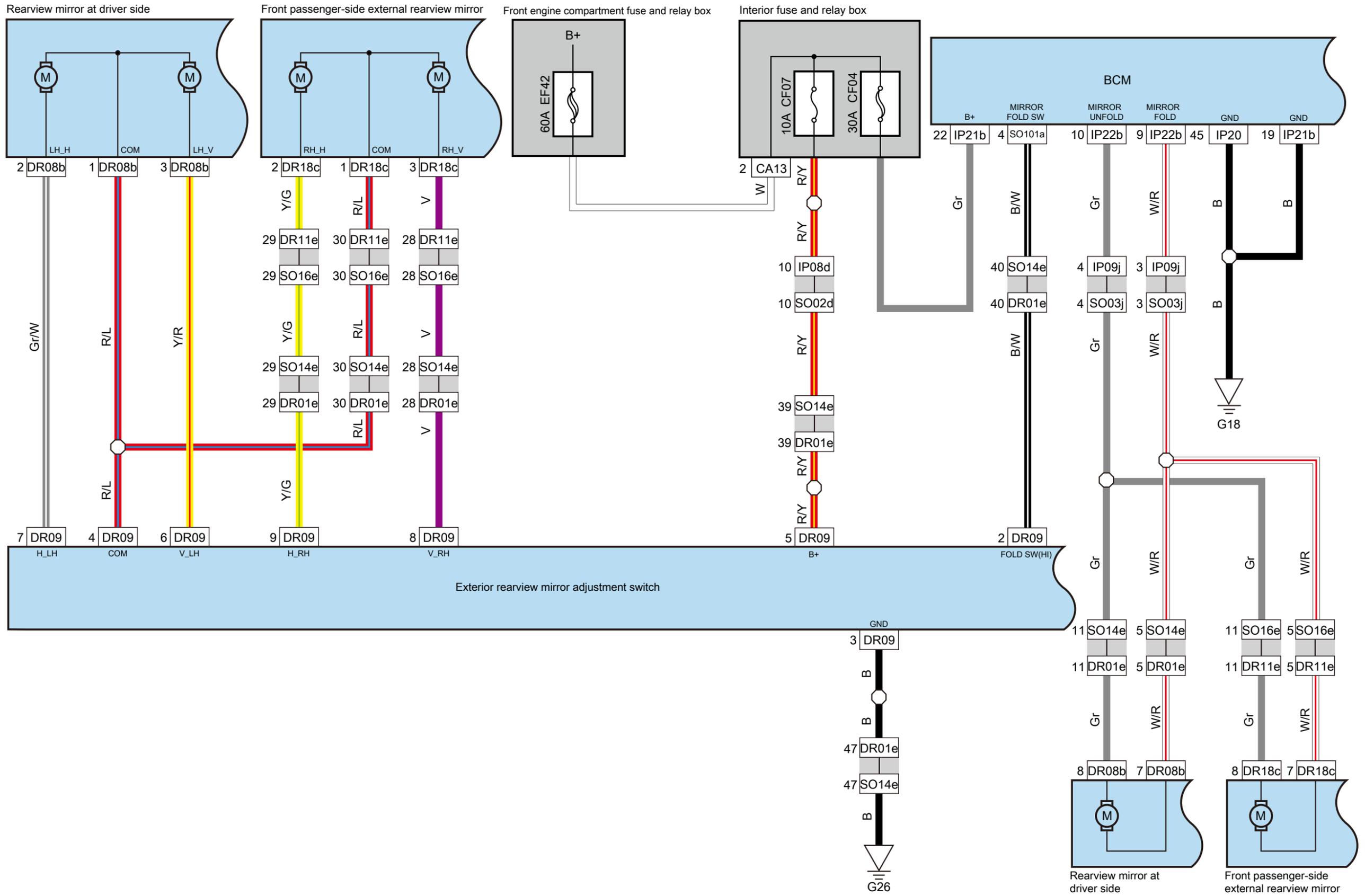
## Electronic Steering Column Lock



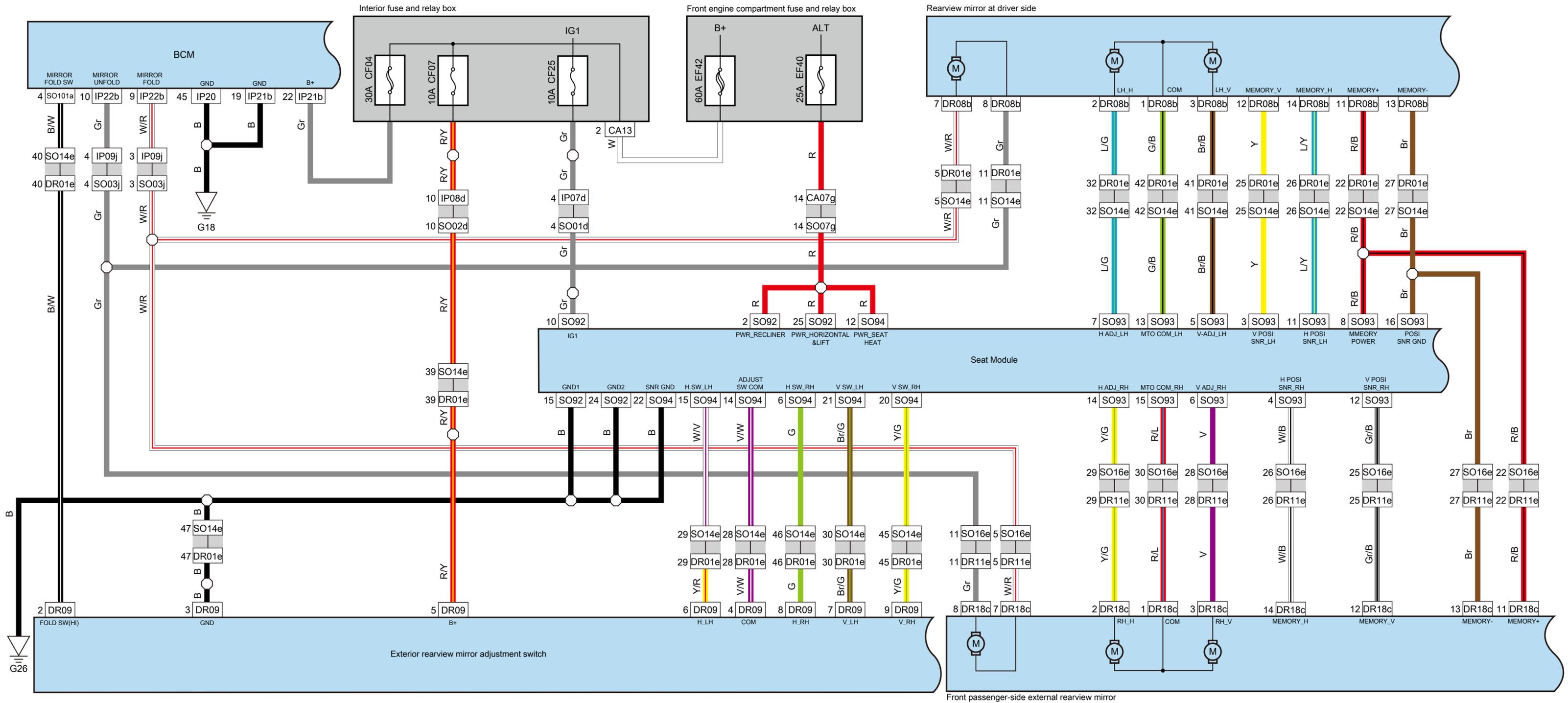
### Hidden Door Handle



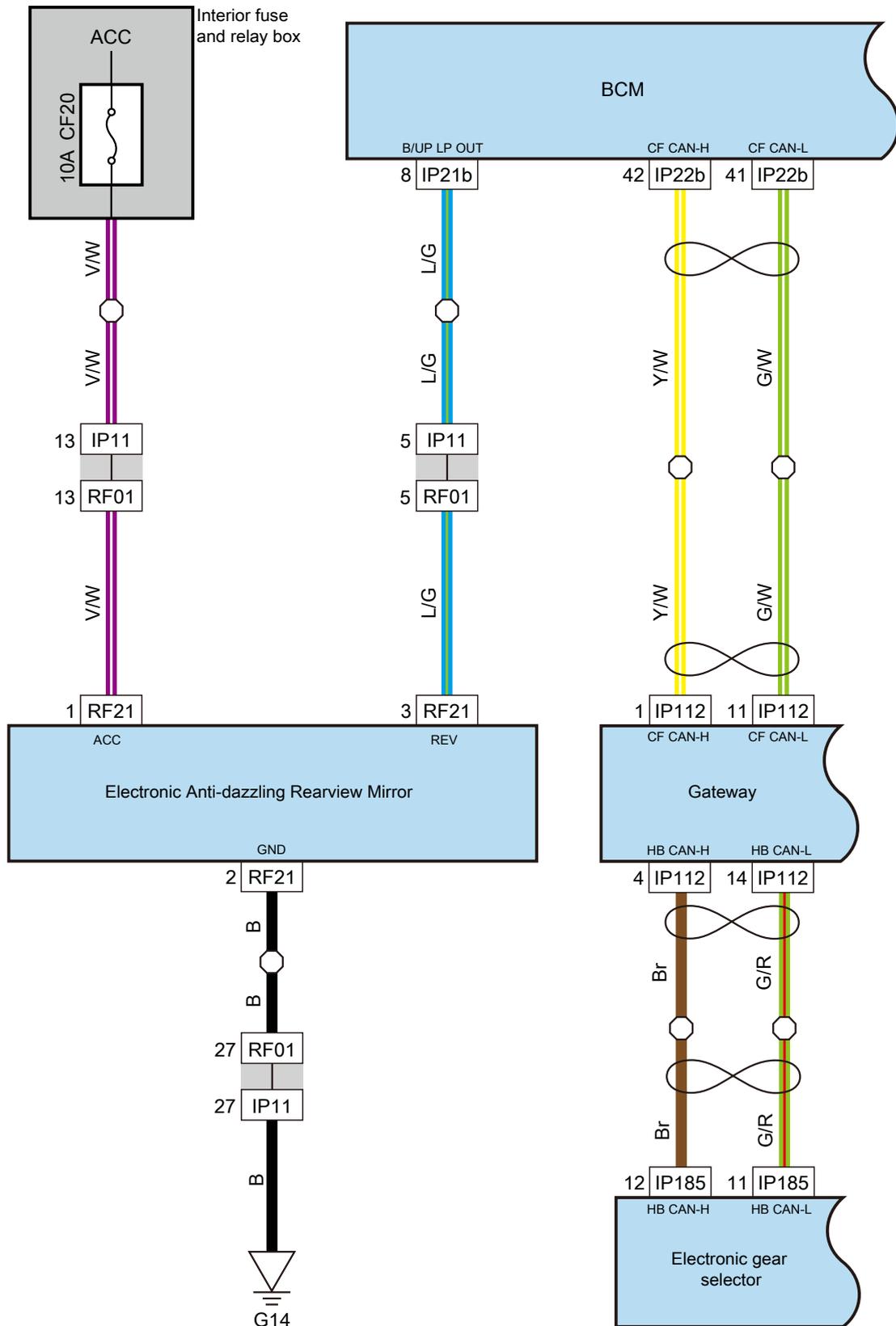
Electric Outside Rearview Mirror



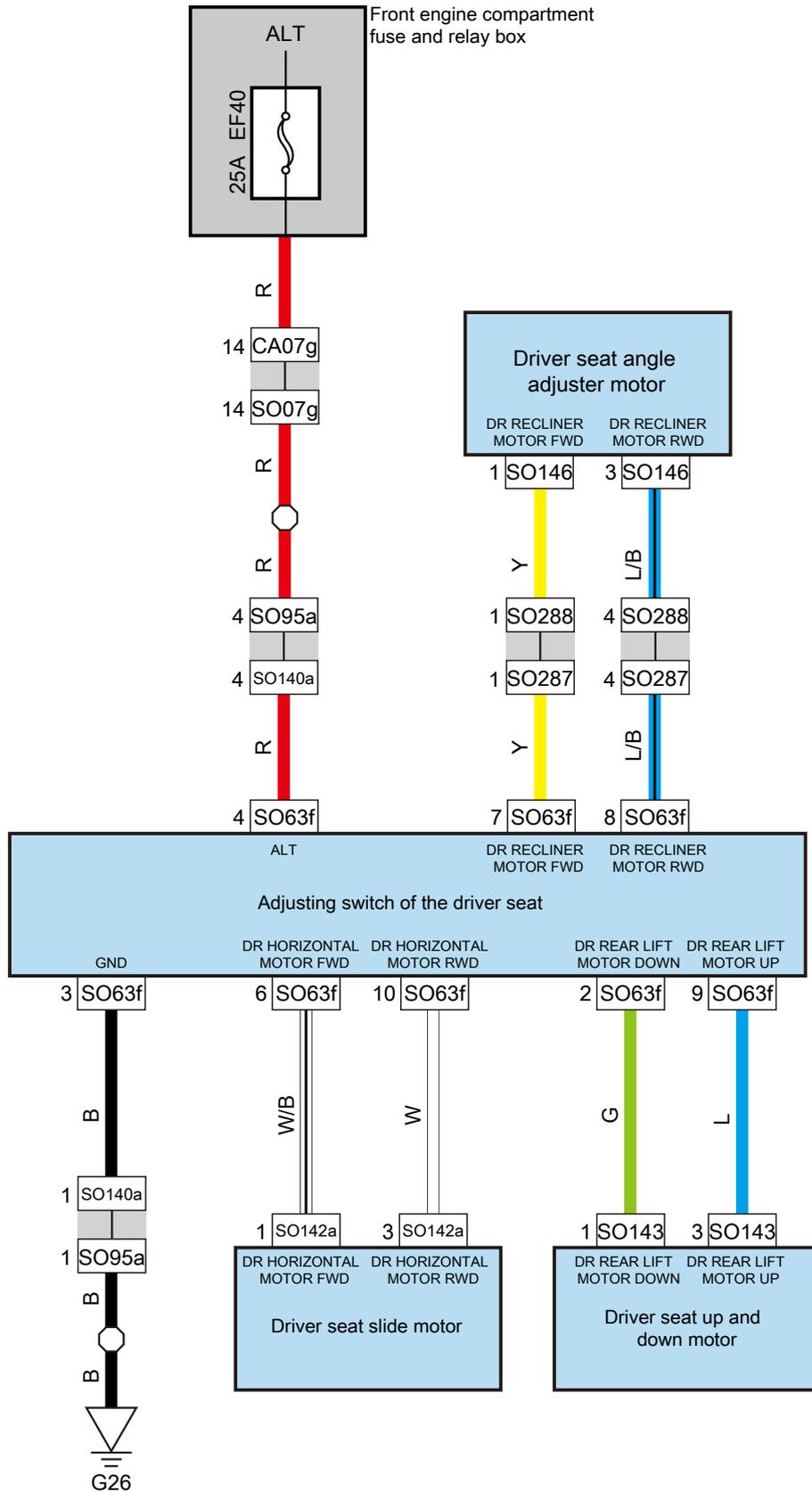
Electric External Mirrors (With Memory Function)



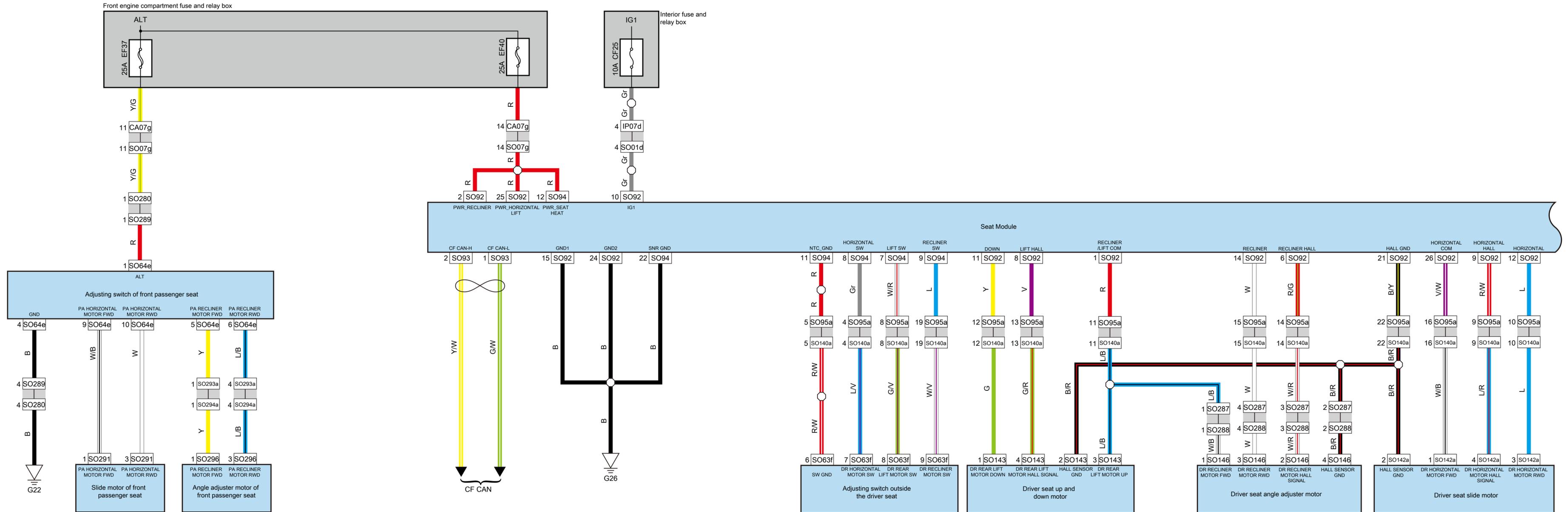
Electronic Anti-Glare Interior Rearview Mirror



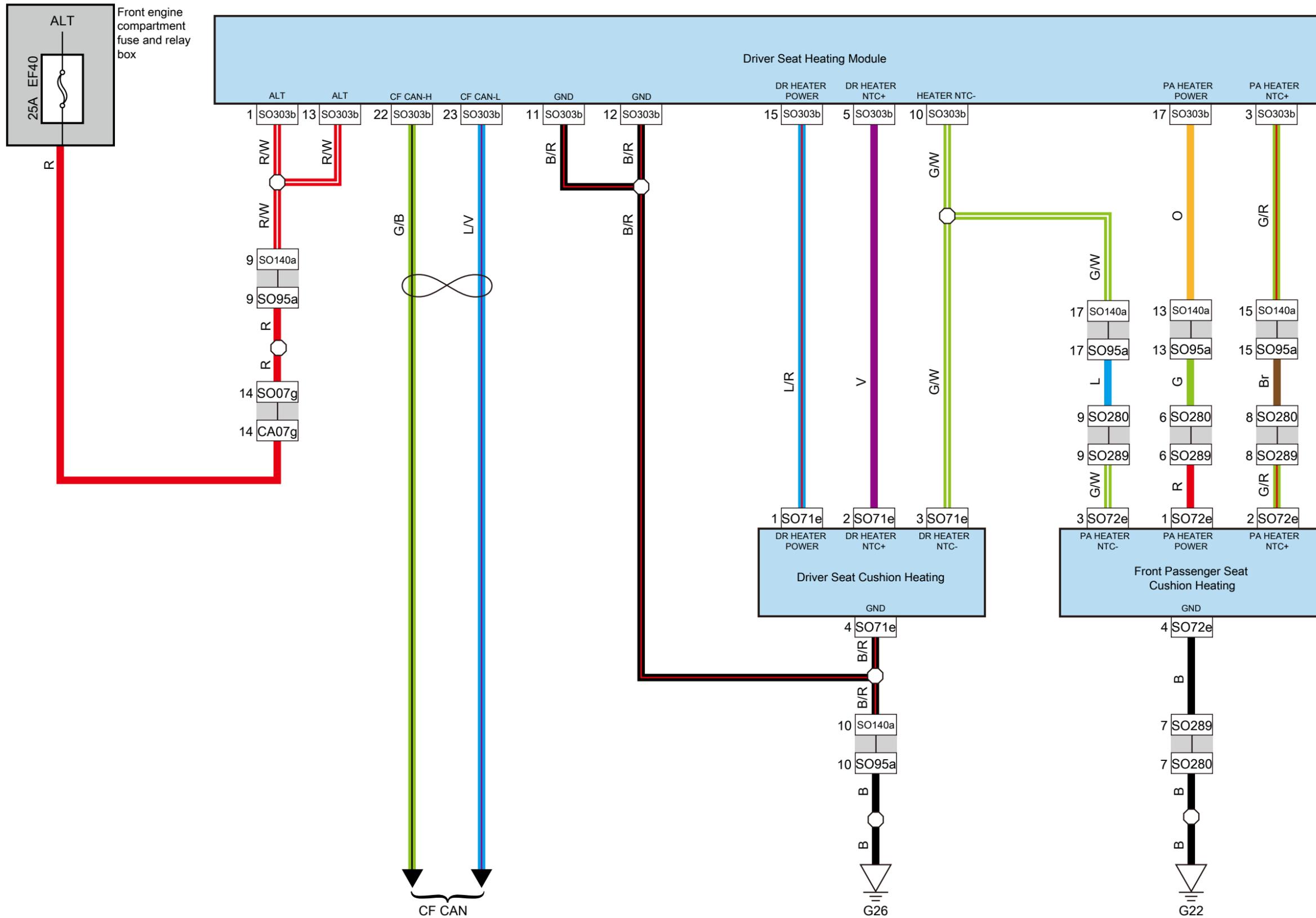
**Power Seats (Without Memory Function)**



Power Seats (With Memory Function)

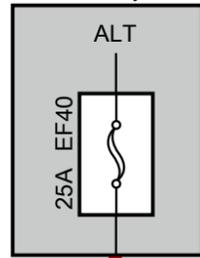


Heated Seats (Without Memory Function)

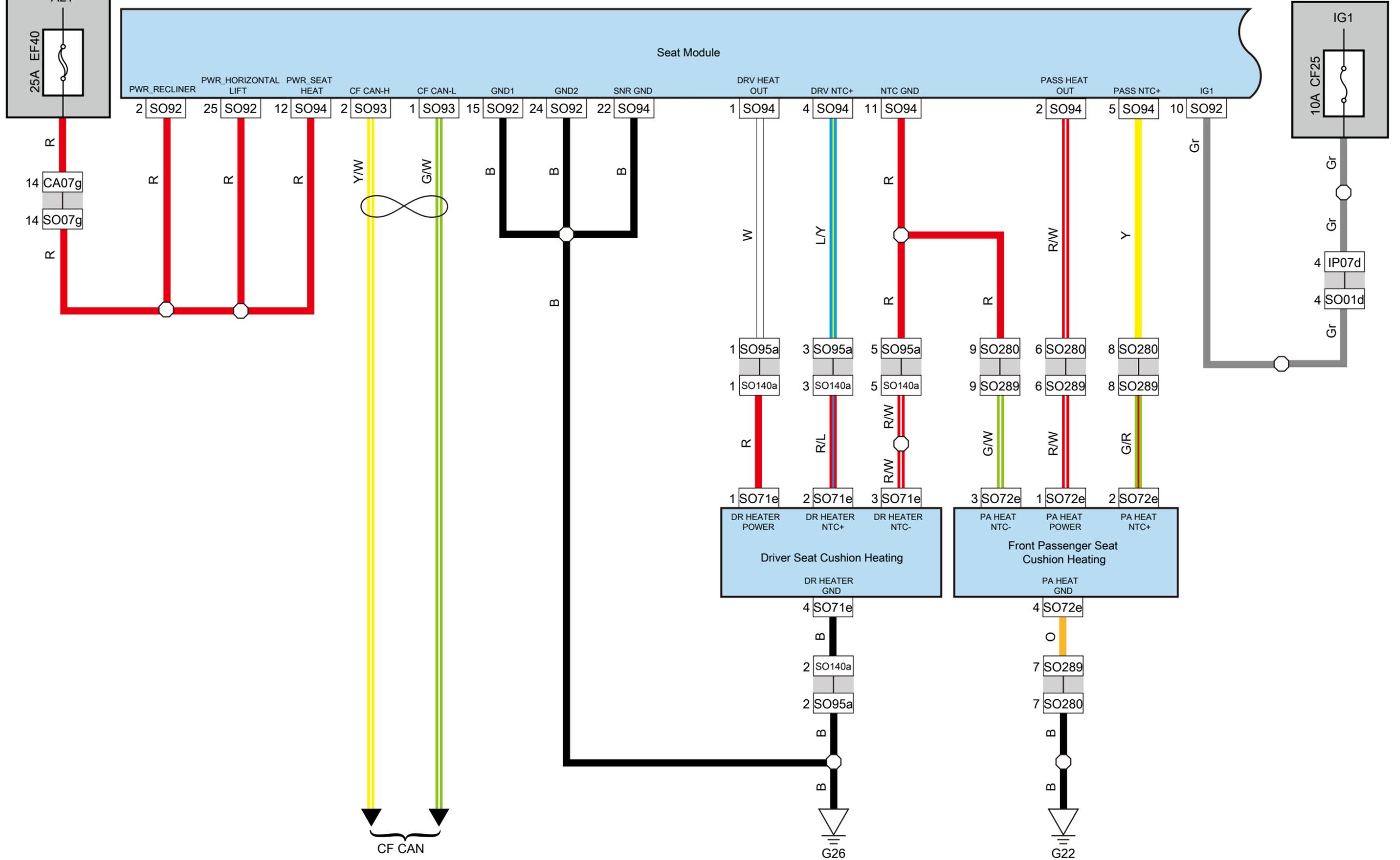
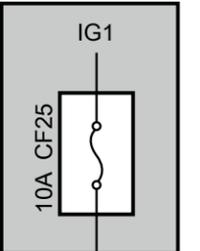


Heated Seats (With Memory Function)

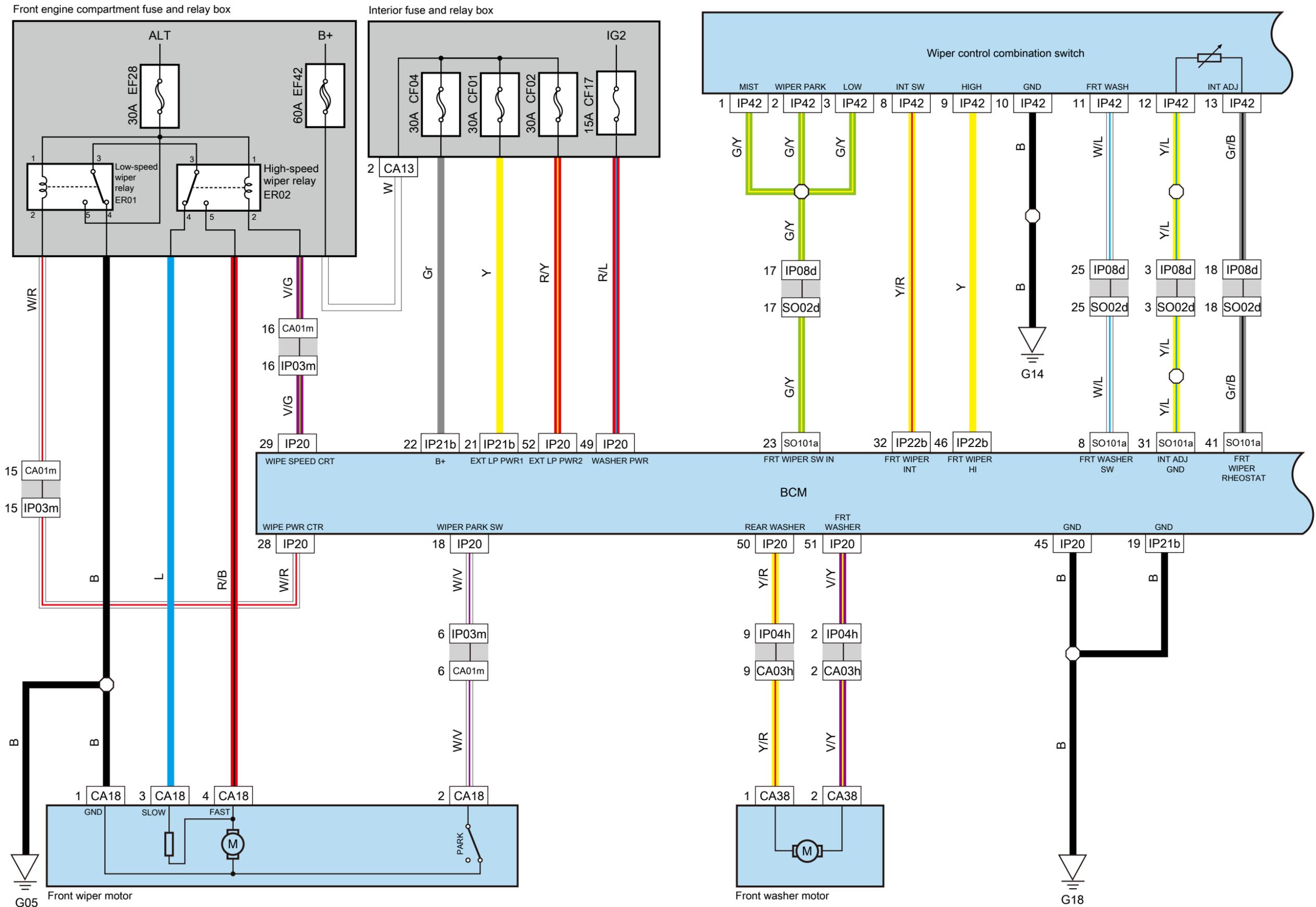
Front engine compartment fuse and relay box



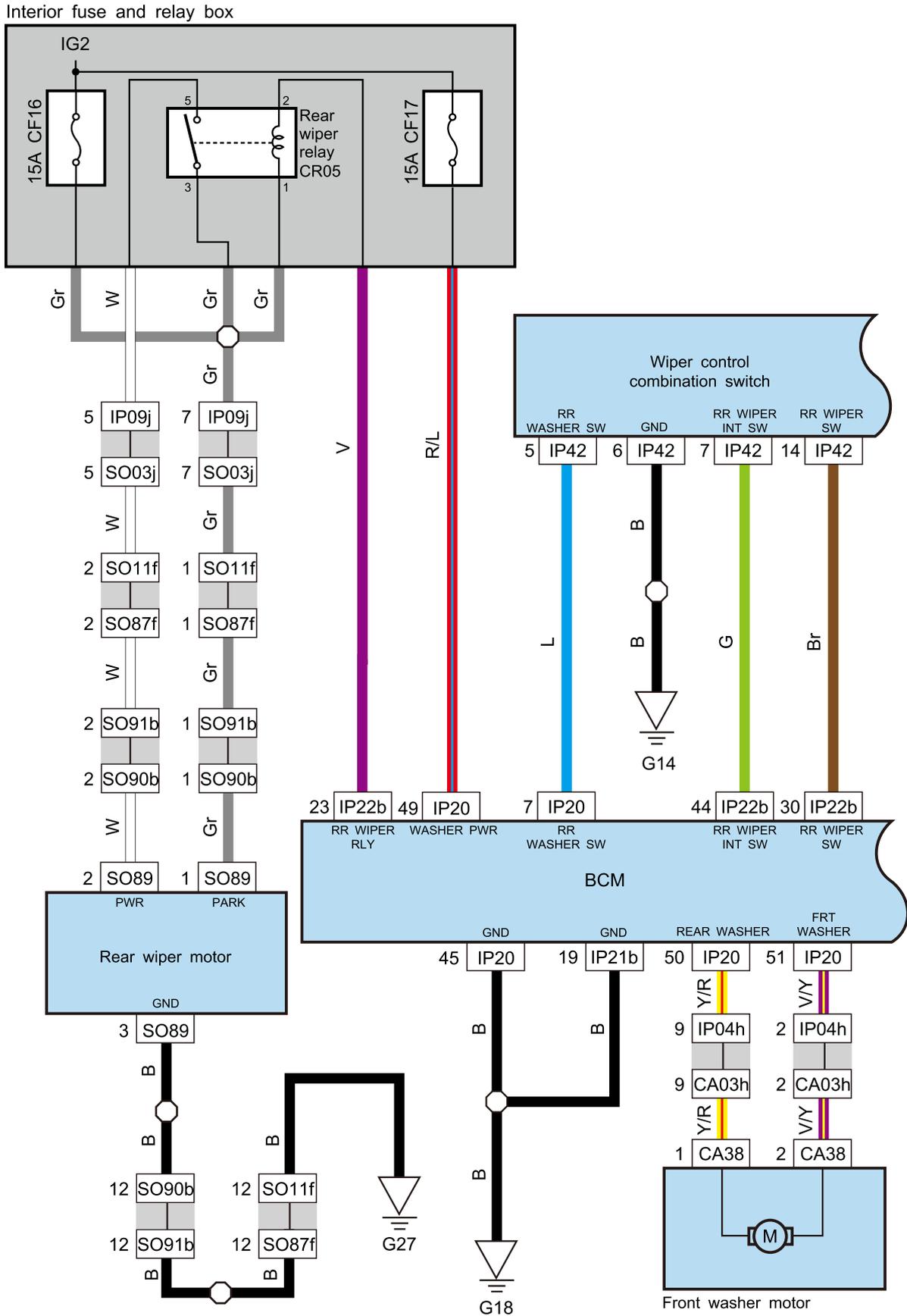
Interior fuse and relay box



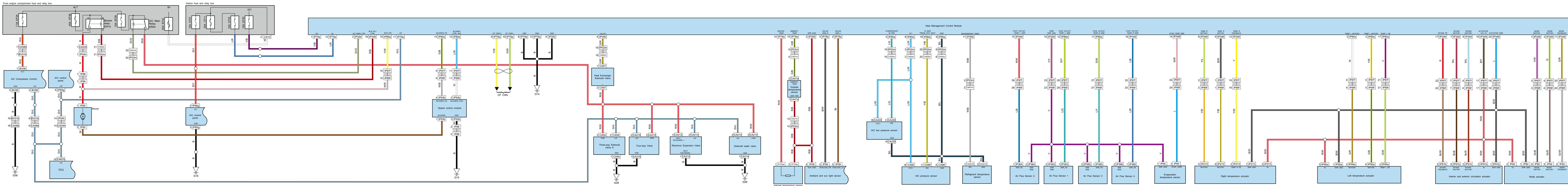
Front Wiper Washing System



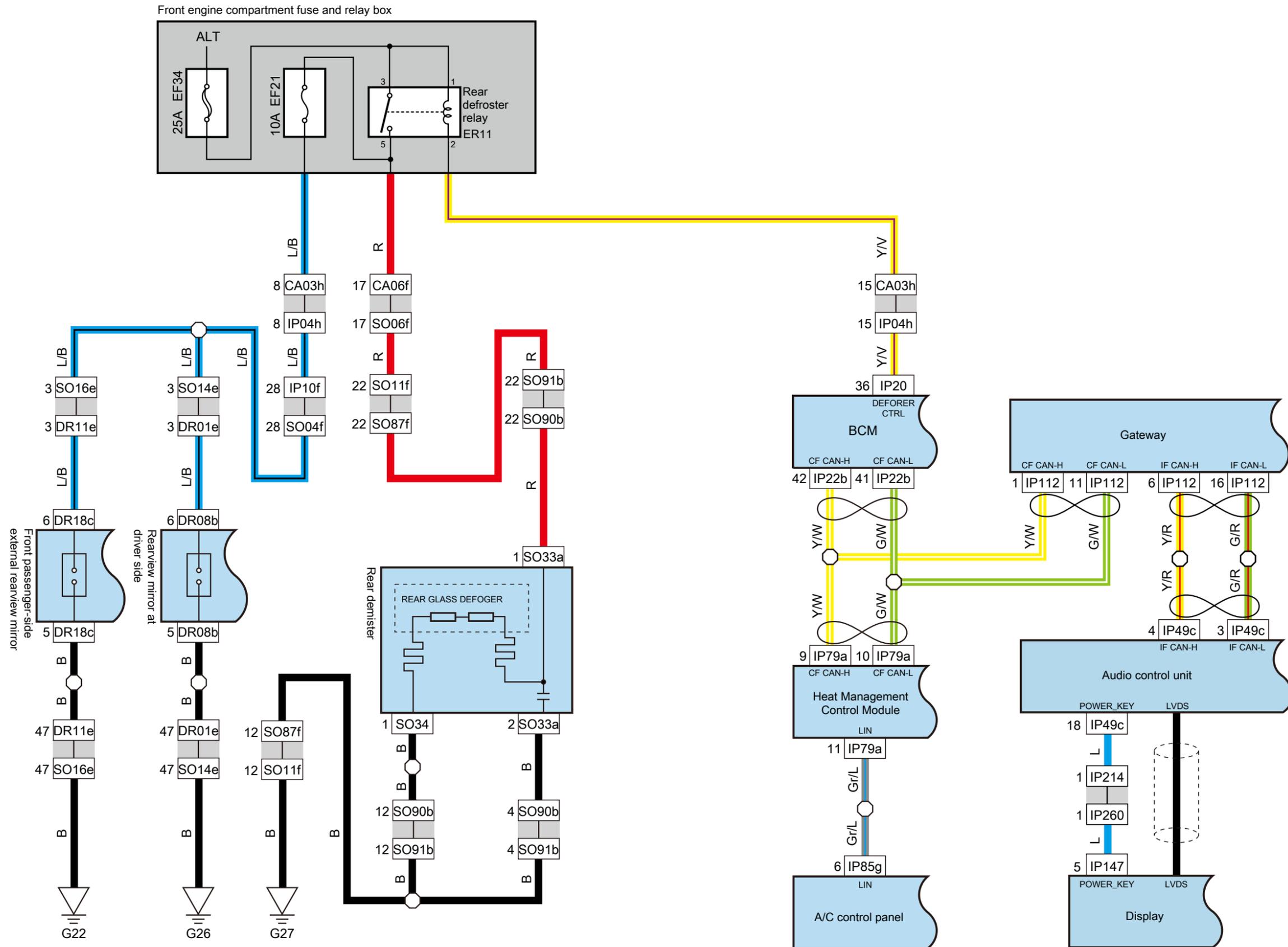
Rear Wiper Washer System



Automatic A/C

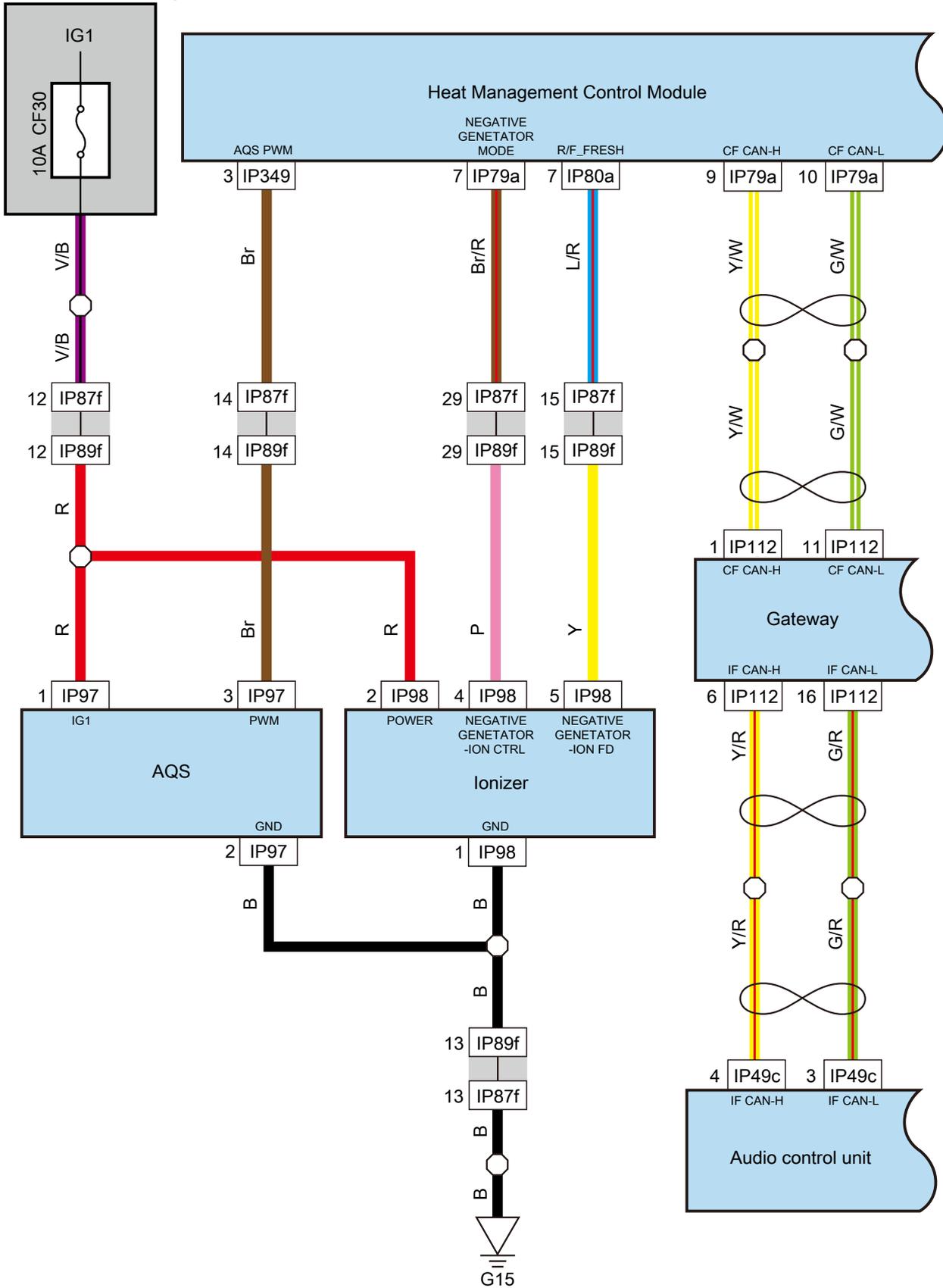


Defrosting Control System

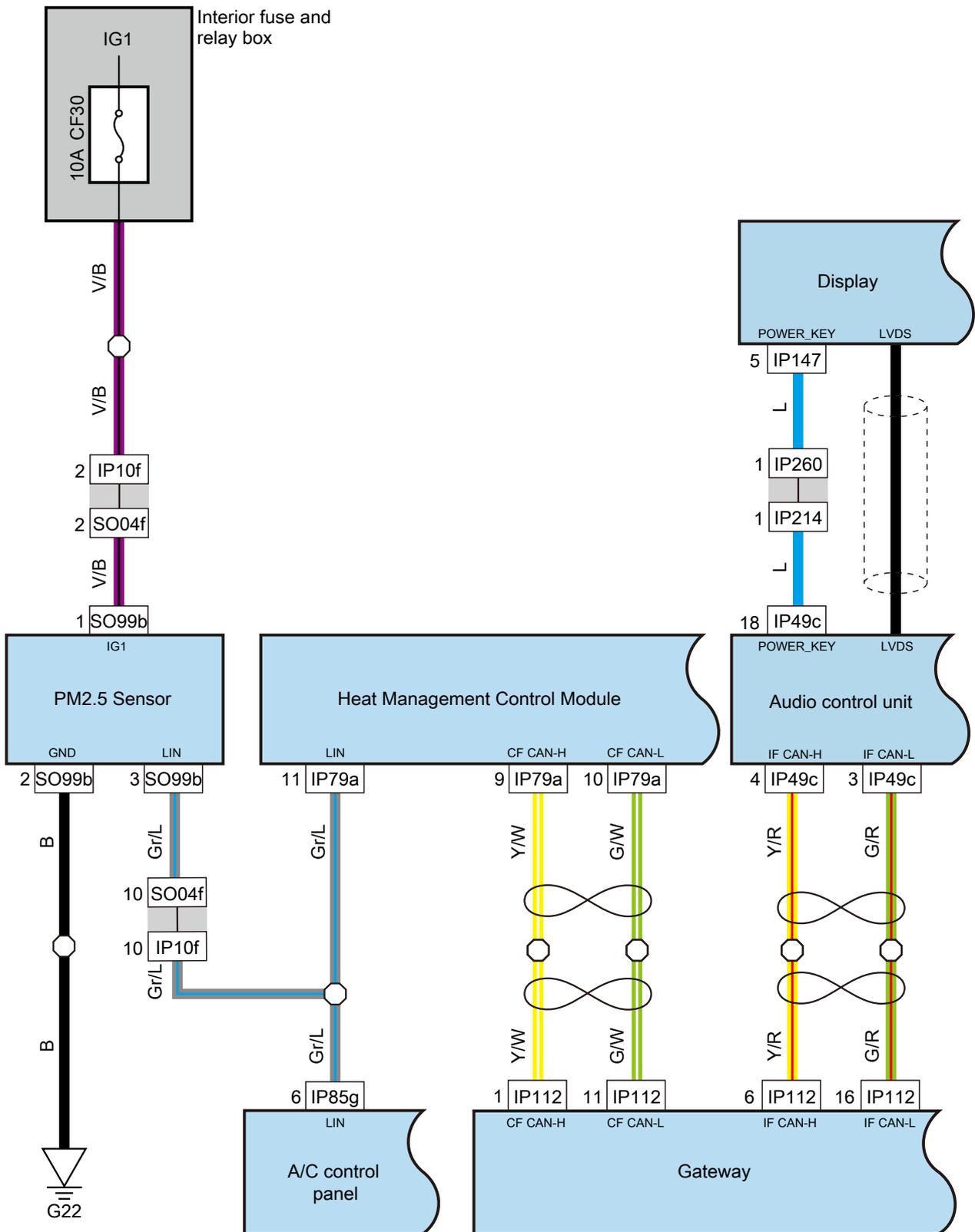


**Air Purifier**

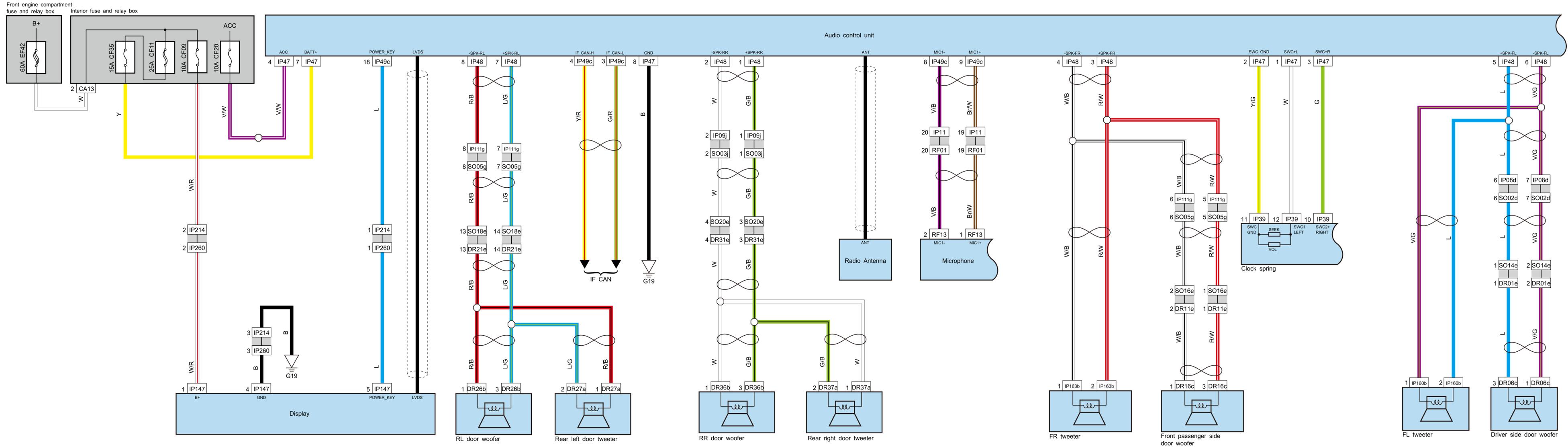
Interior fuse and relay box



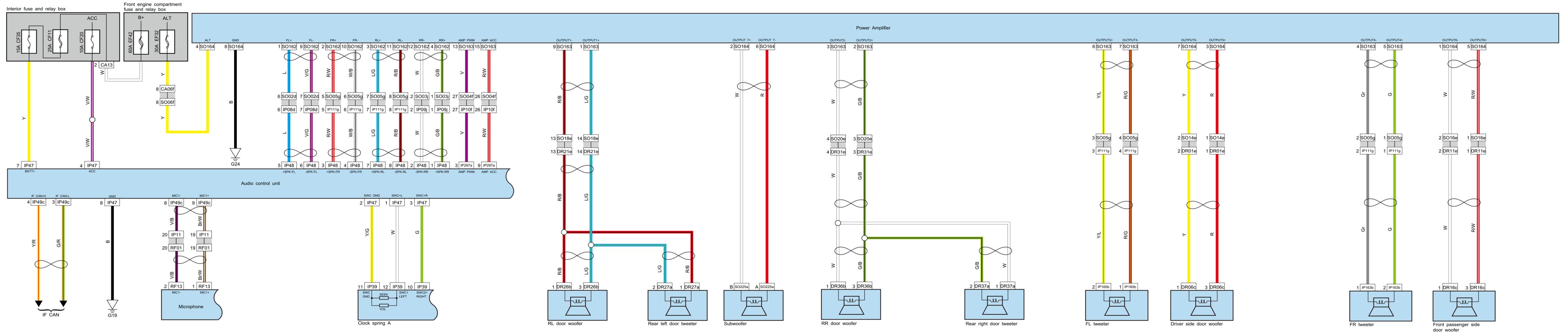
PM2.5



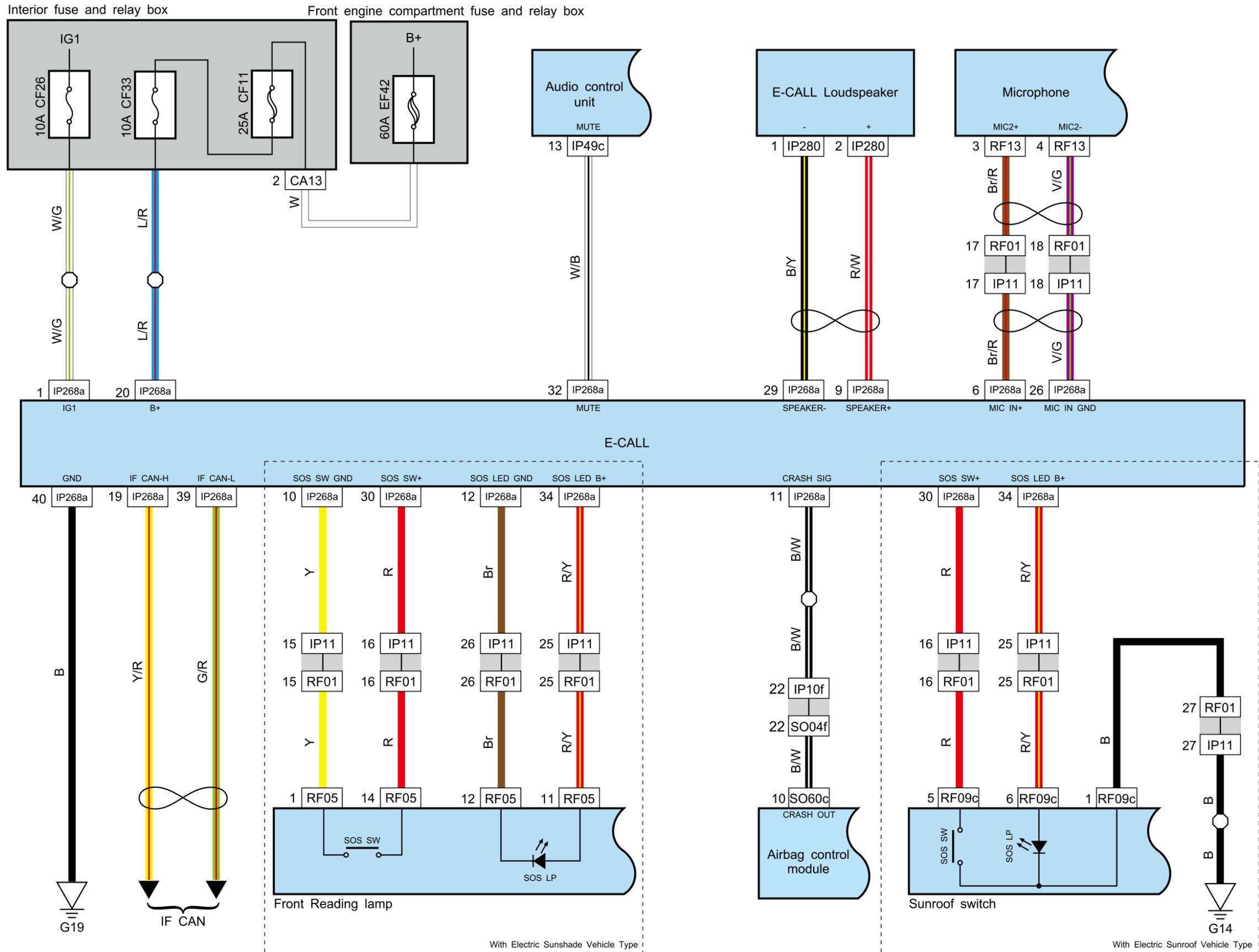
Audio control unit



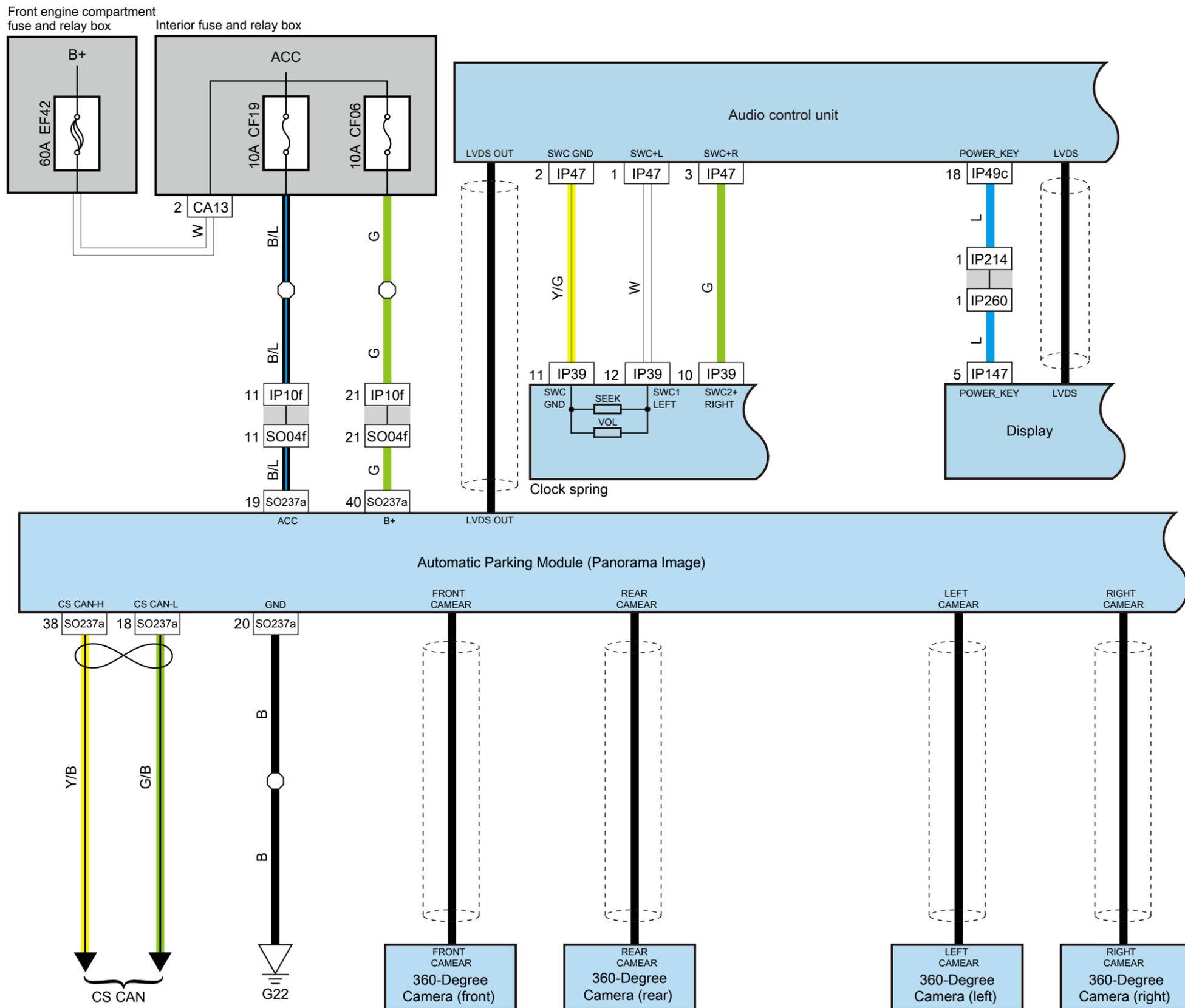
Audio Control Unit (With Amplifier)



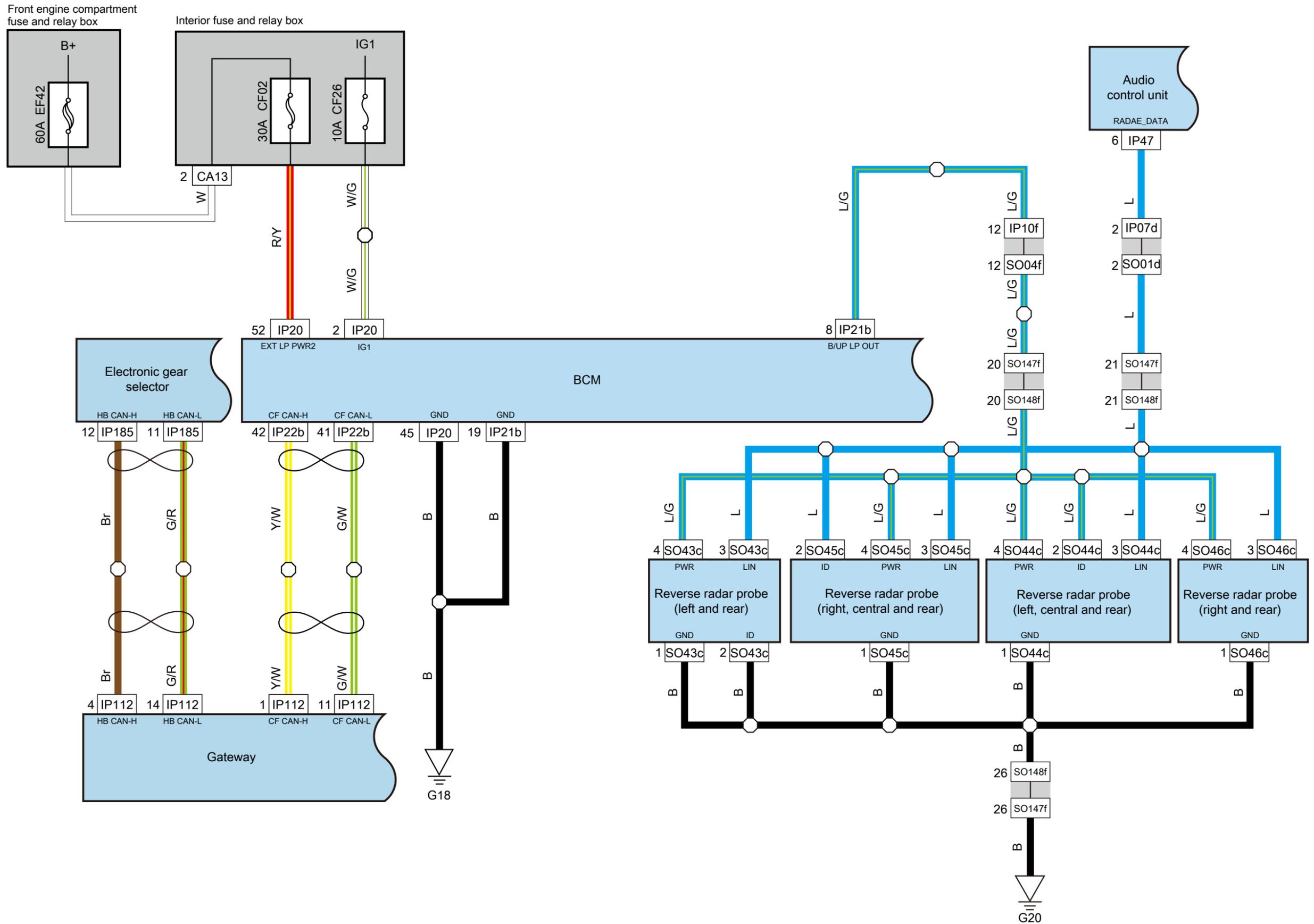
E-CALL



Dashboard Camera

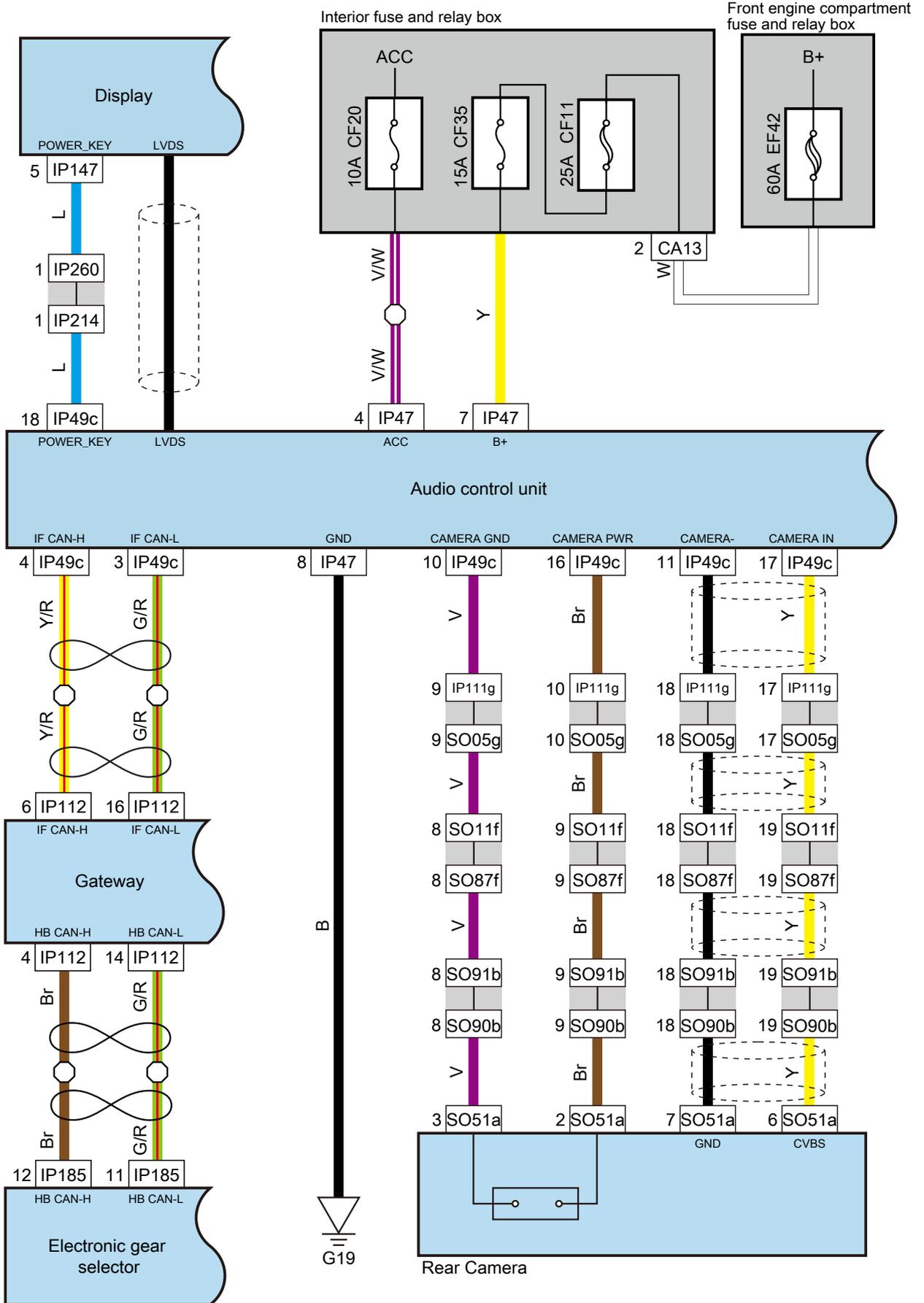


Reversing Radar (With Rear Four Radar Models)

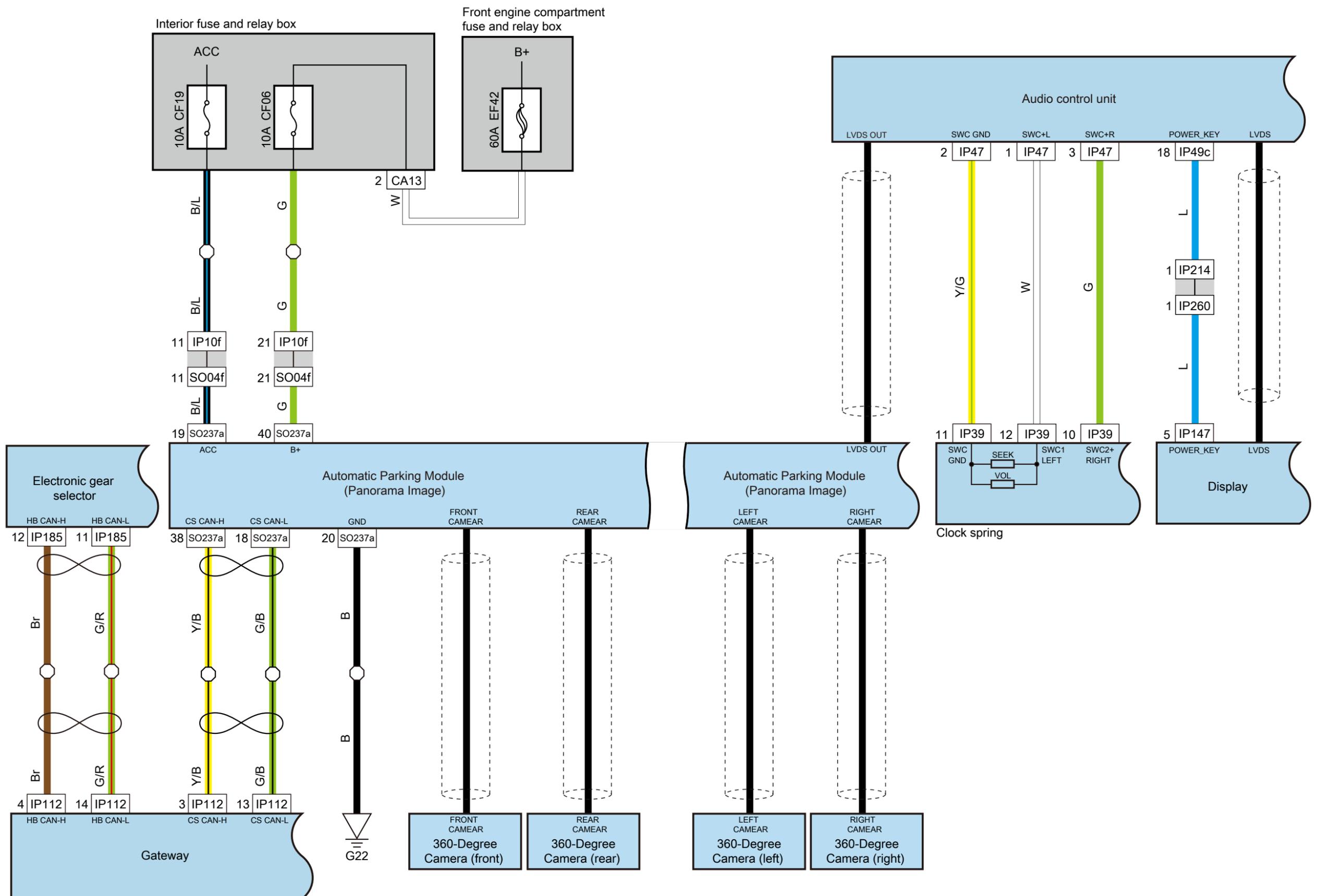




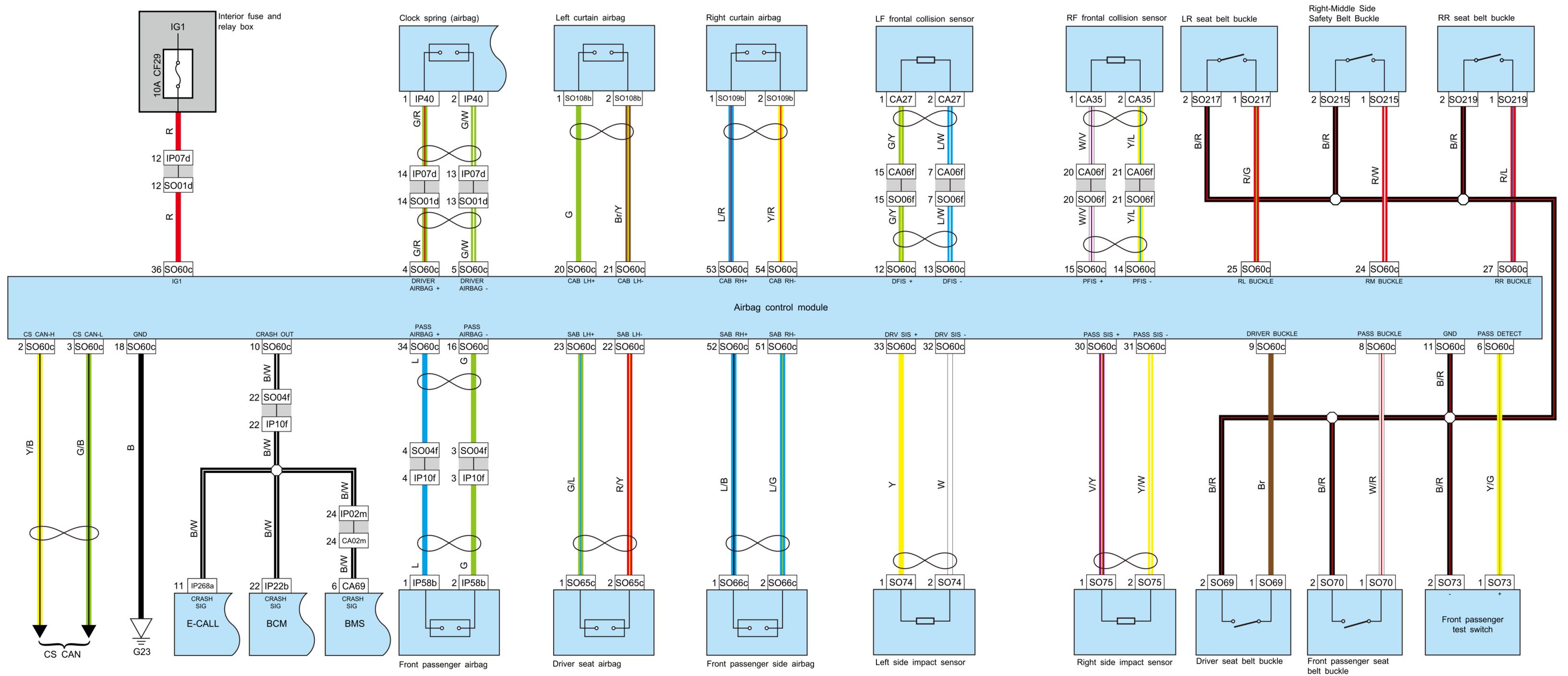
Rear View Camera



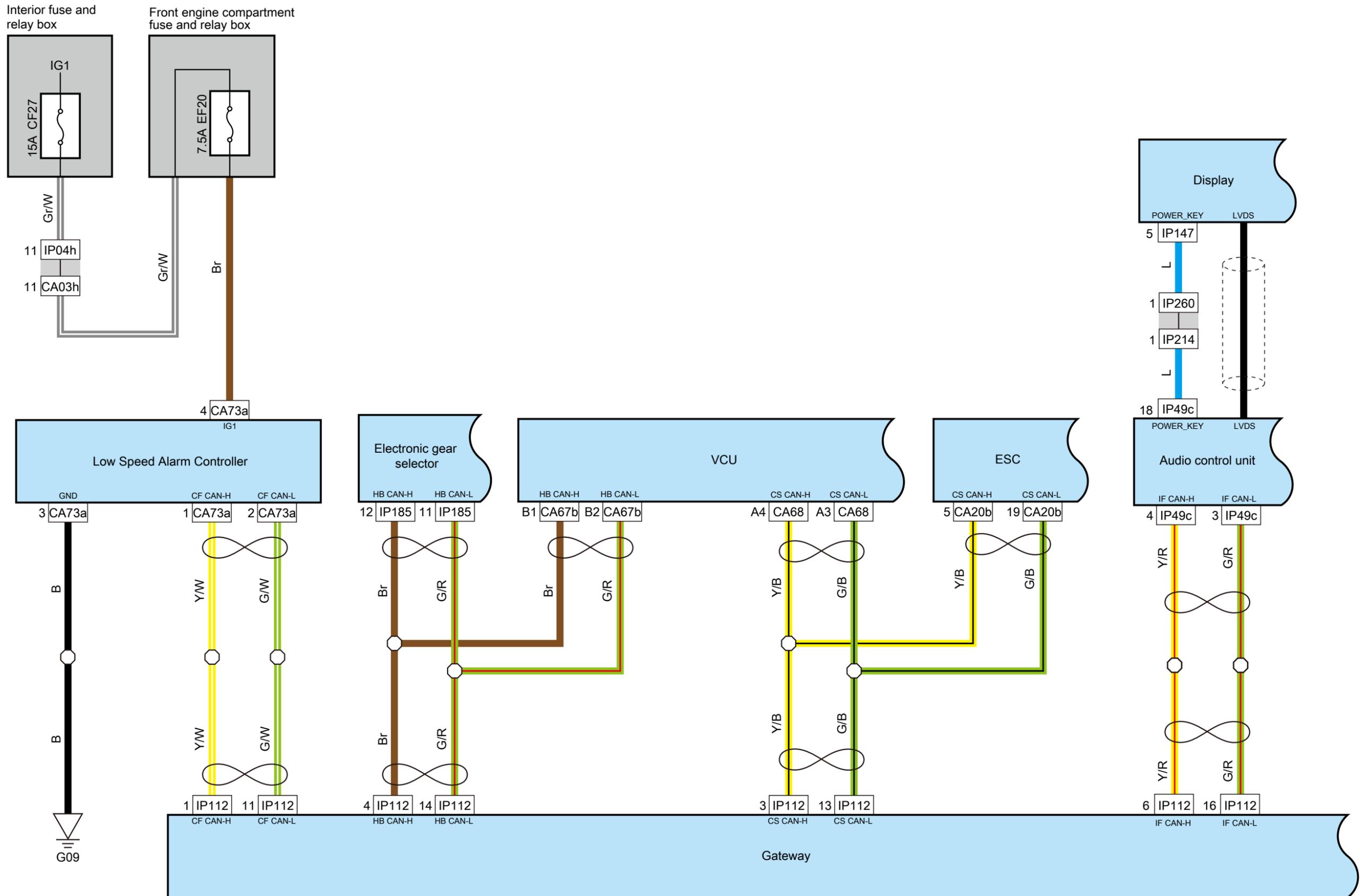
Panoramic Image



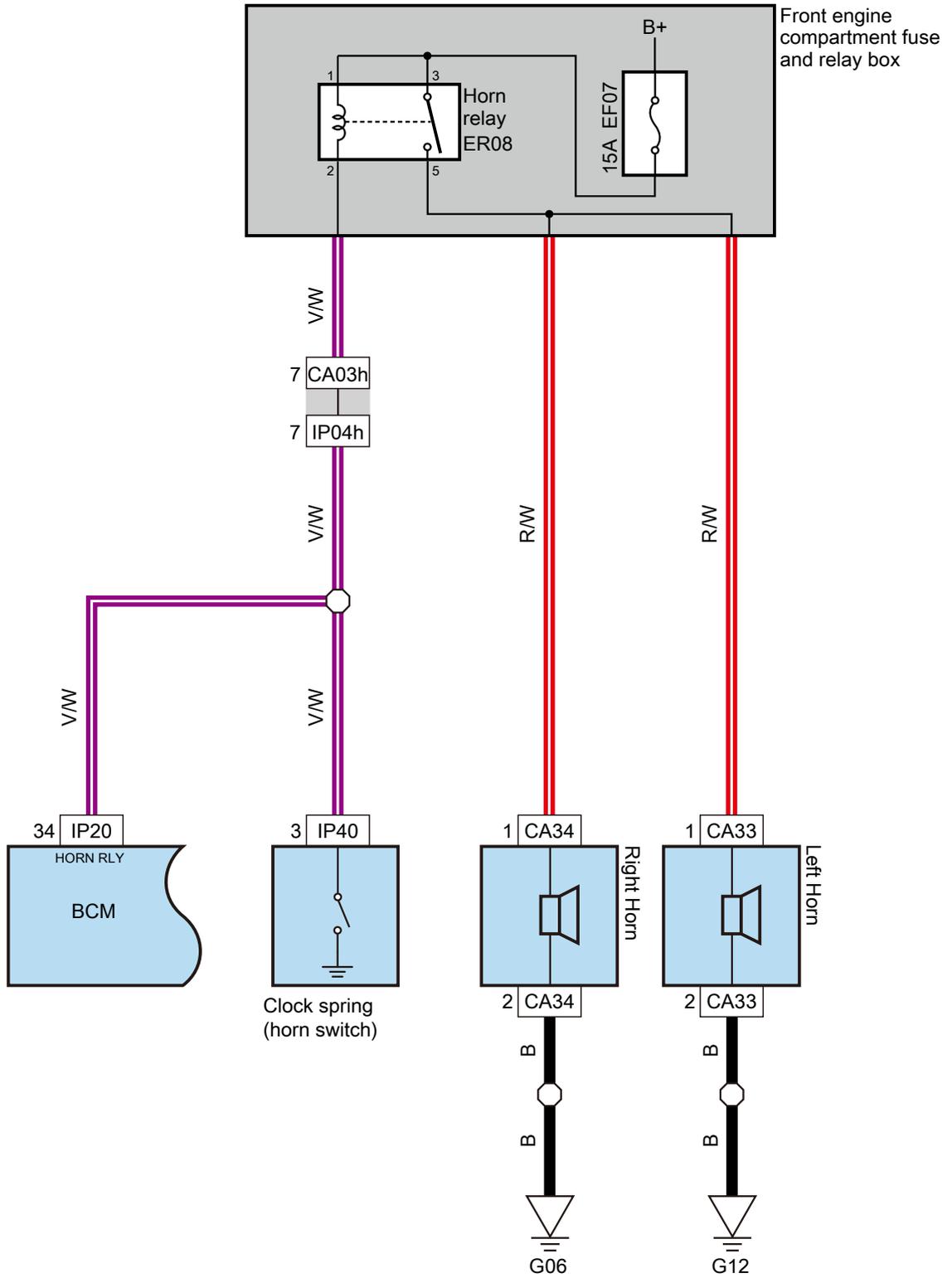
Airbag Control System



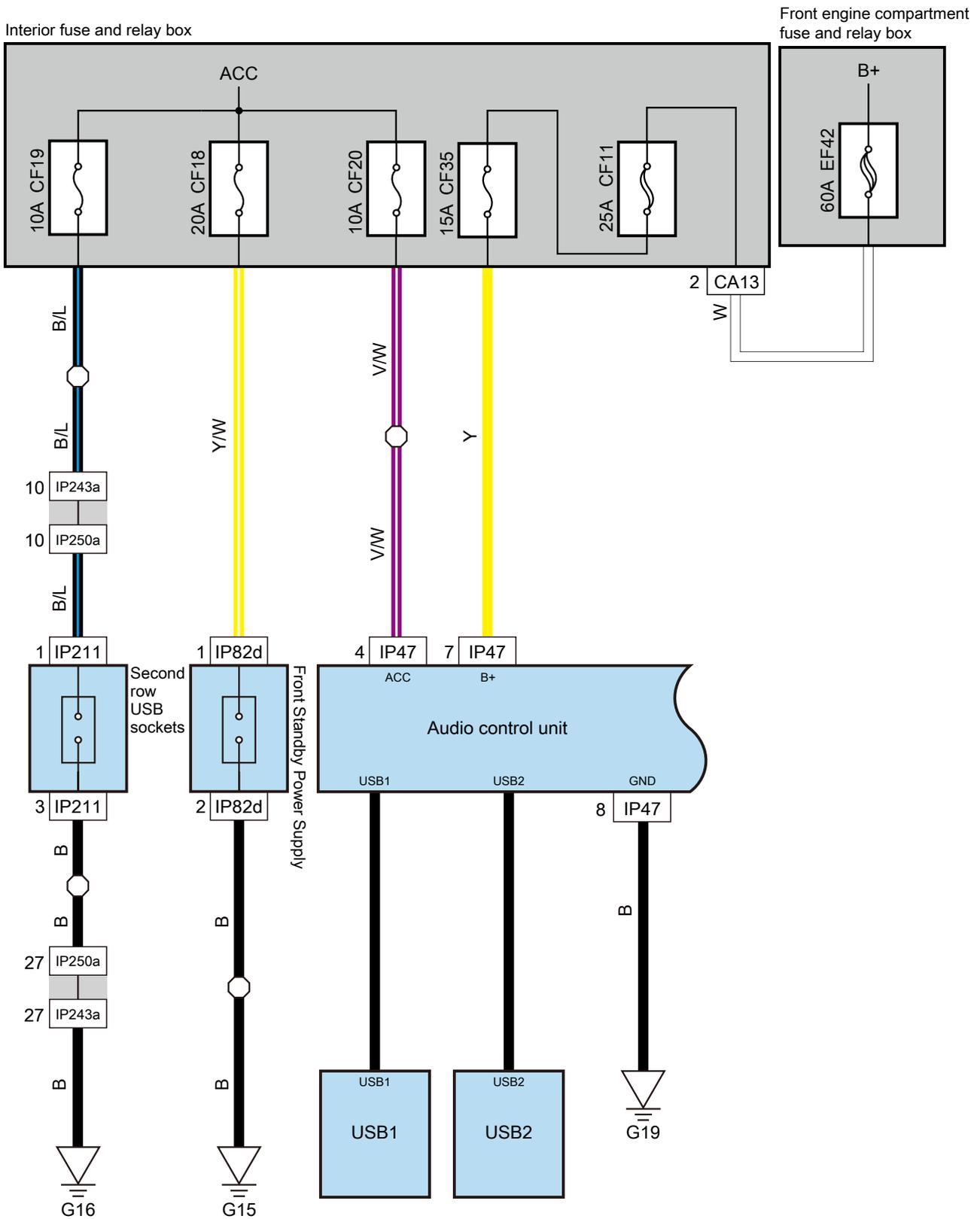
Low Speed Alarm



Horn

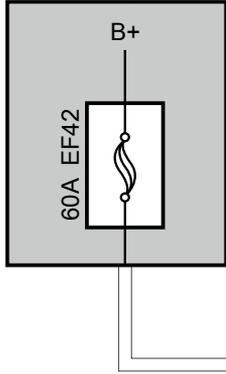


Vehicle Power Supply

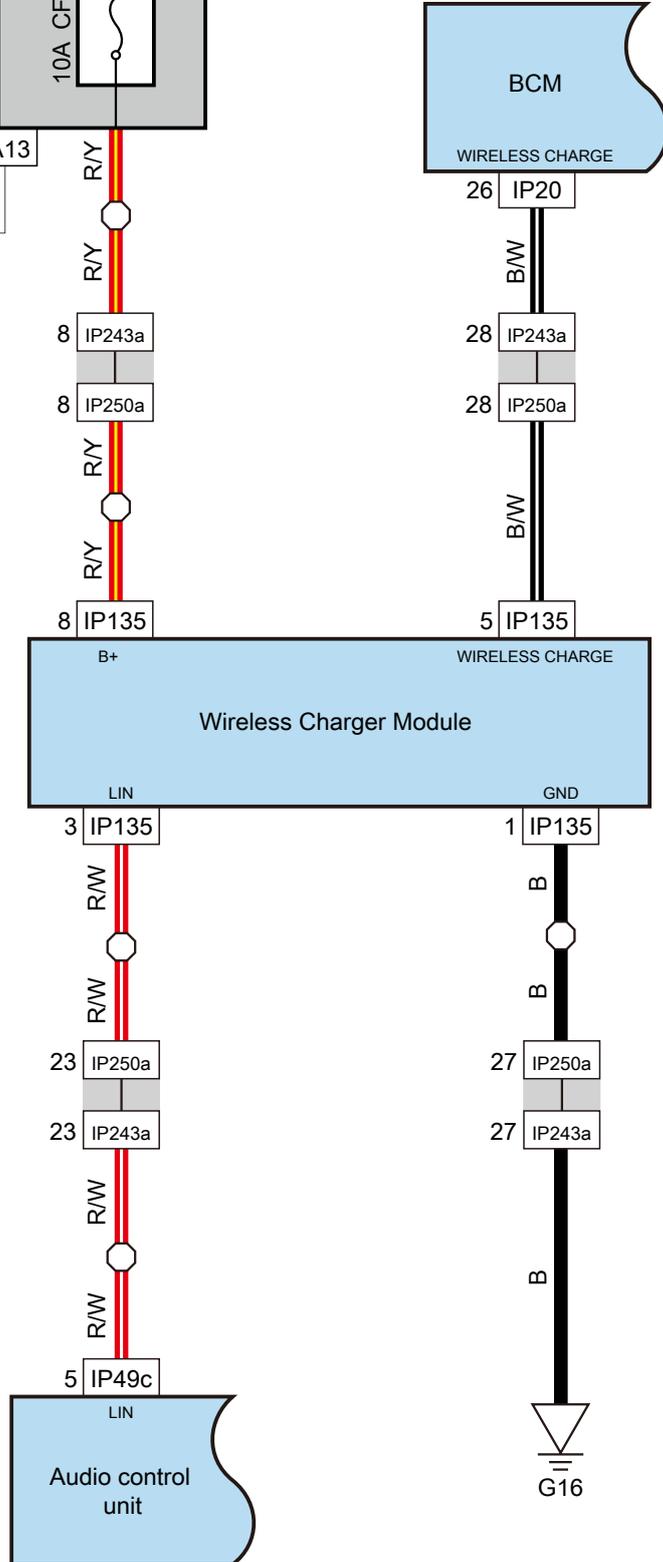
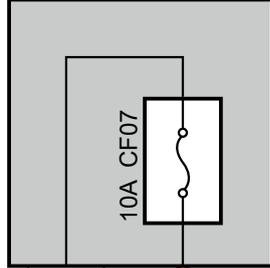


## Wireless charging

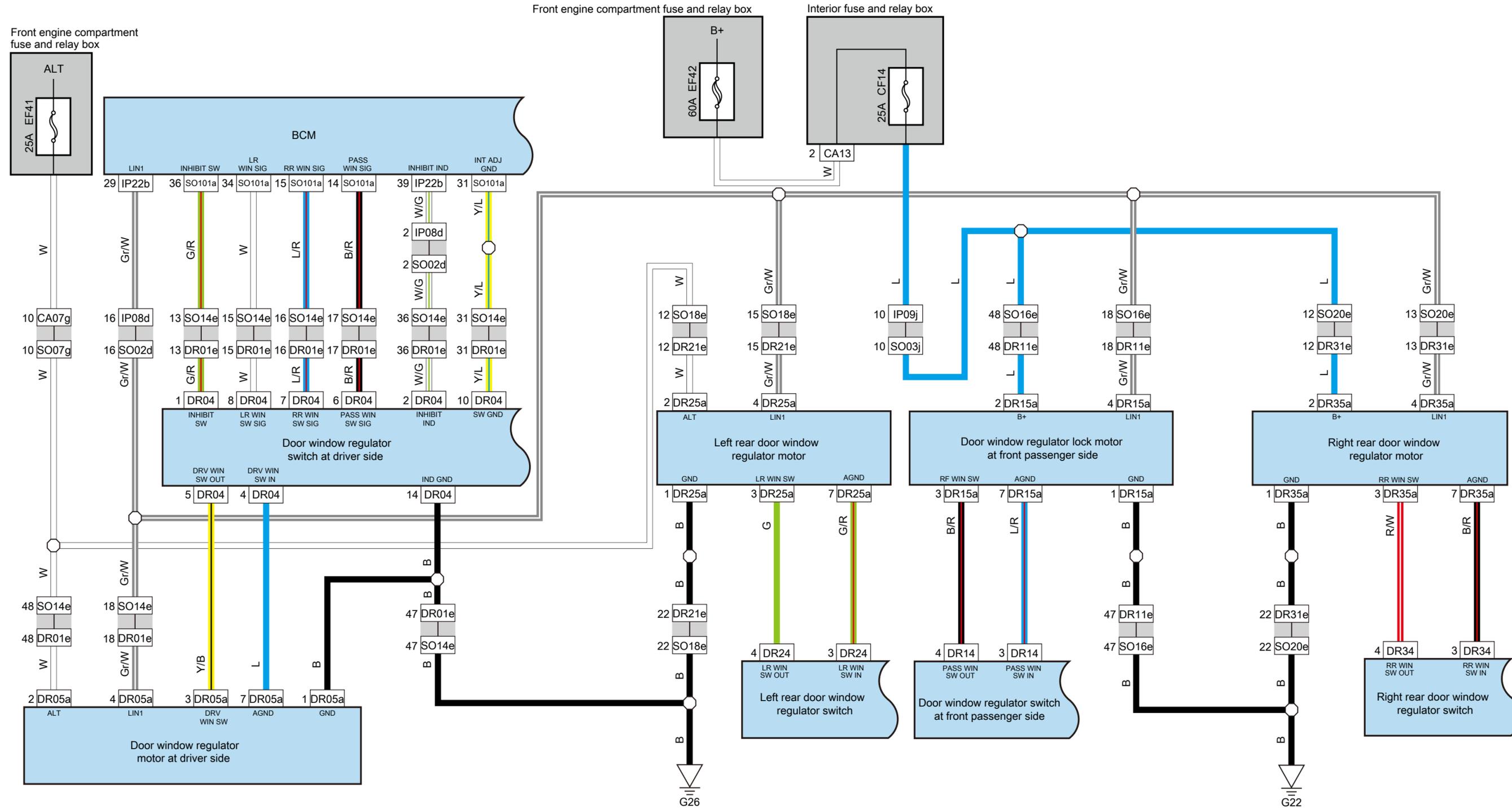
Front engine compartment fuse and relay box



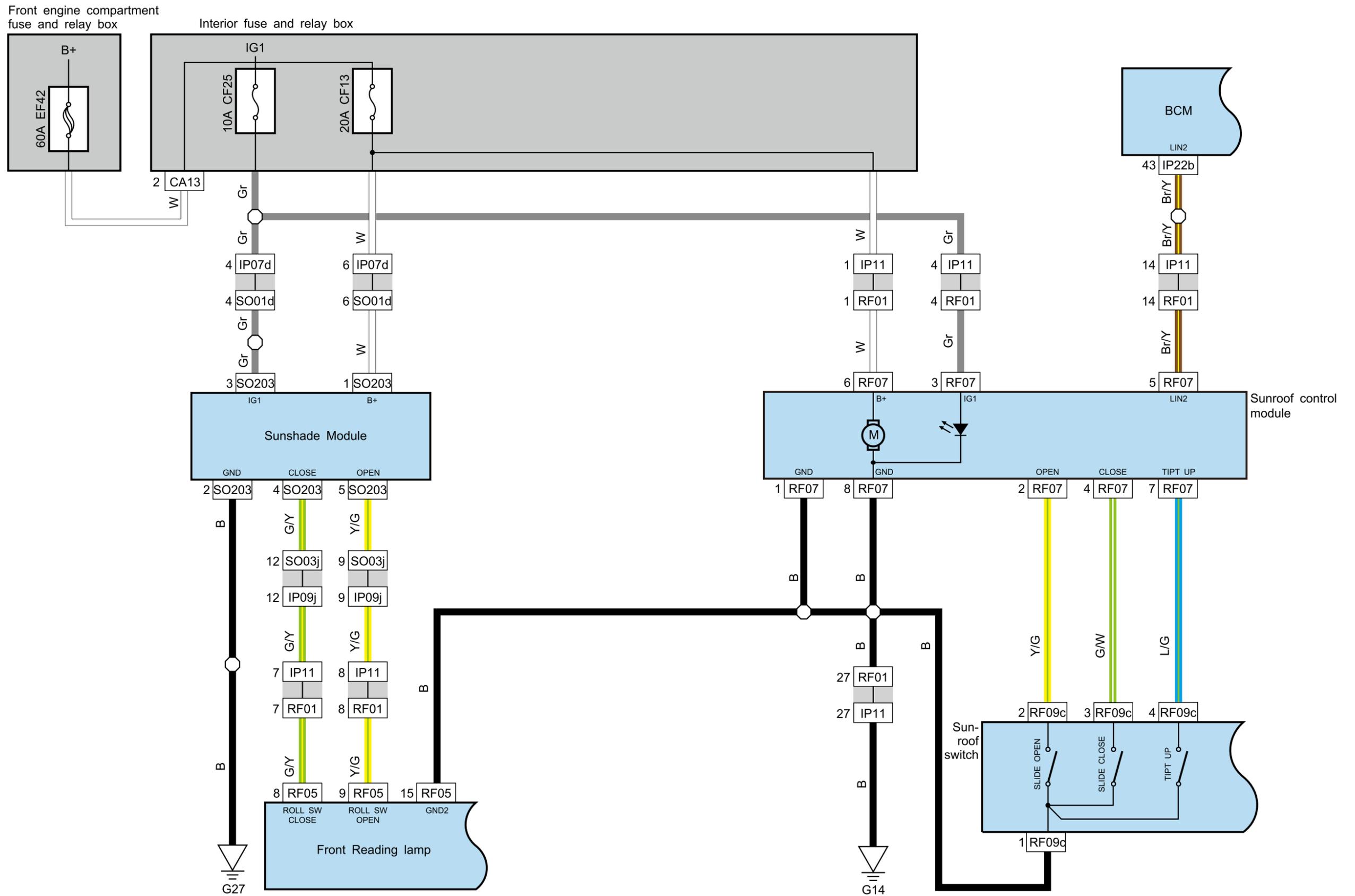
Interior fuse and relay box



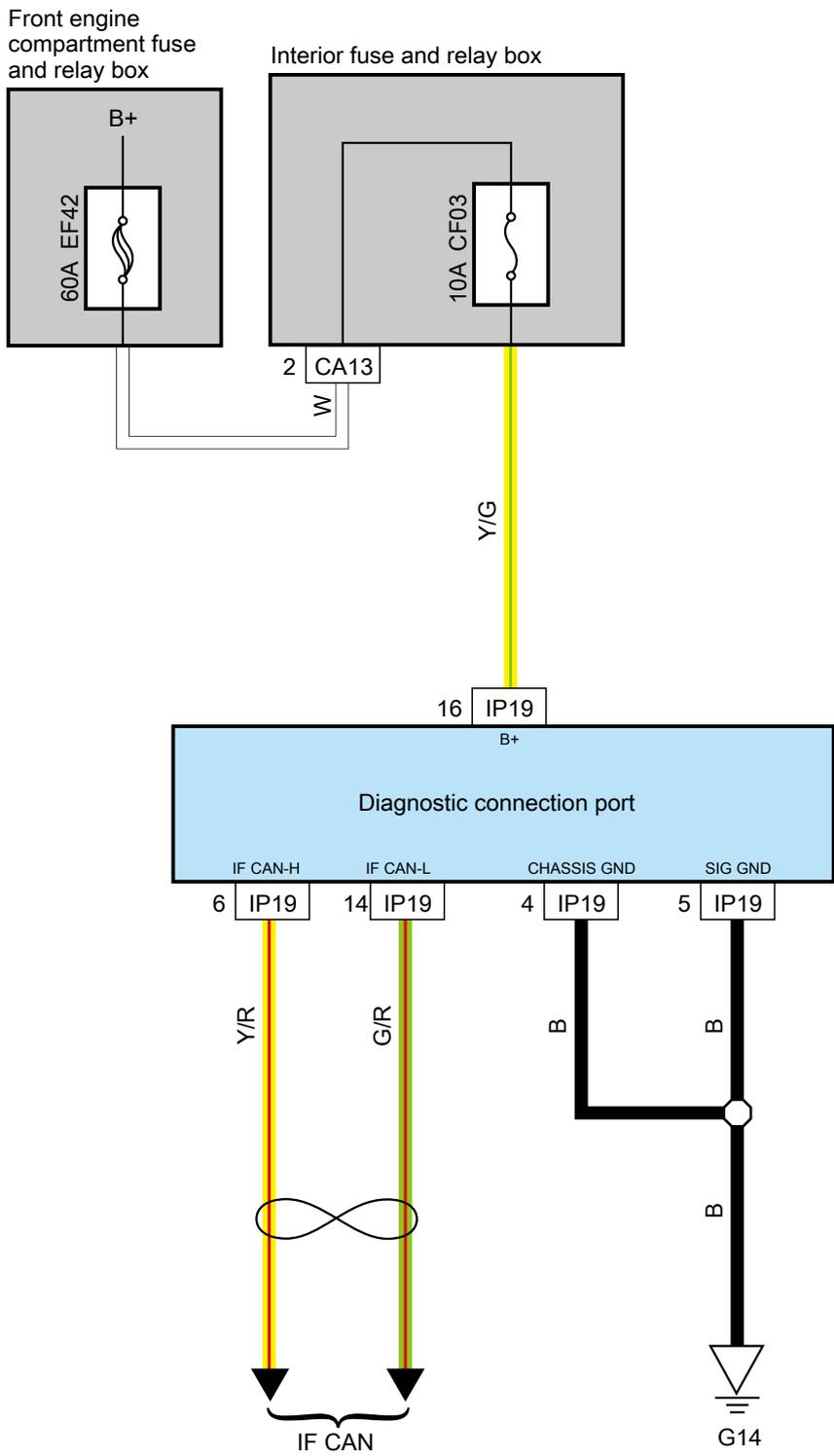
Power window



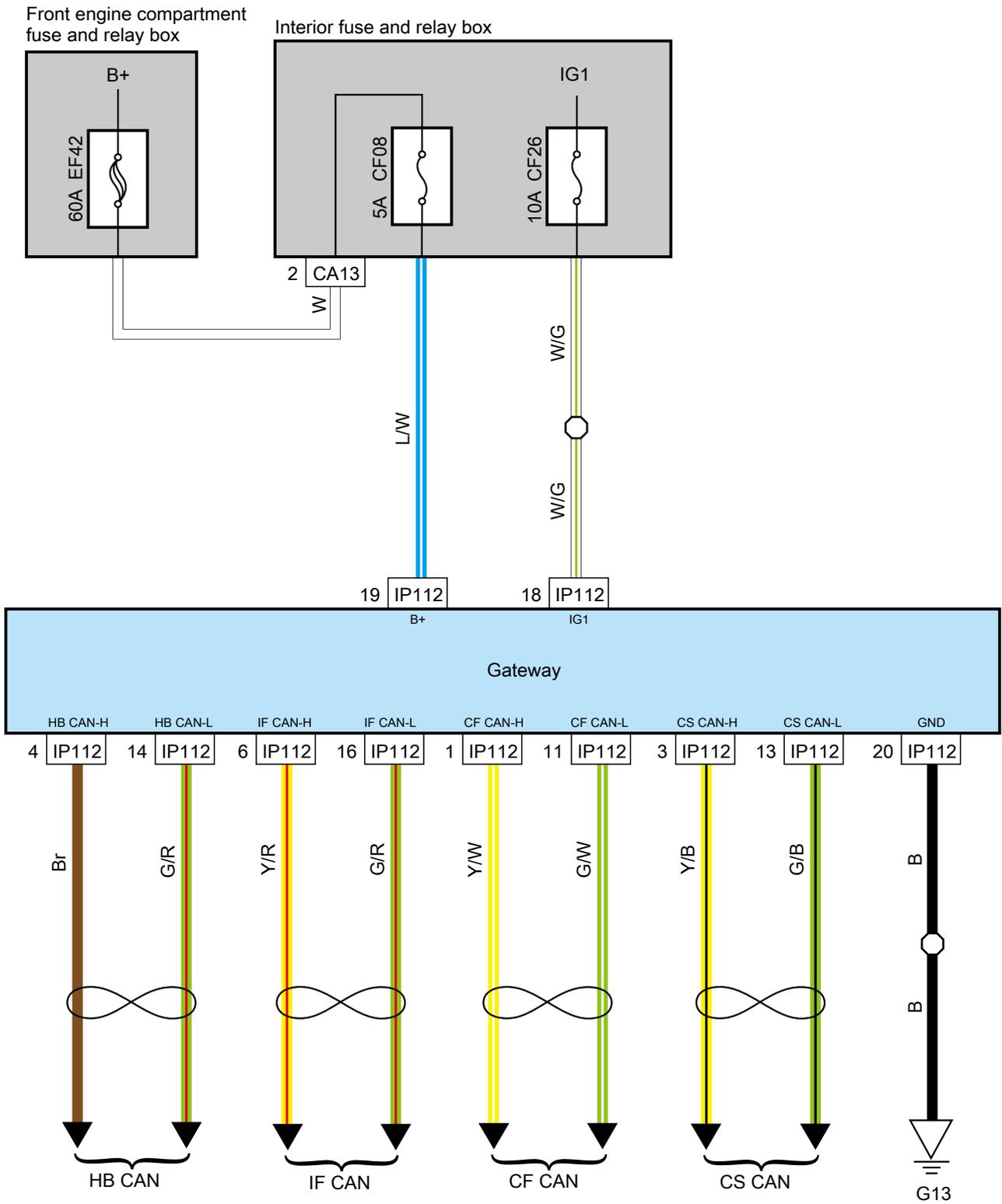
Power Sunroof



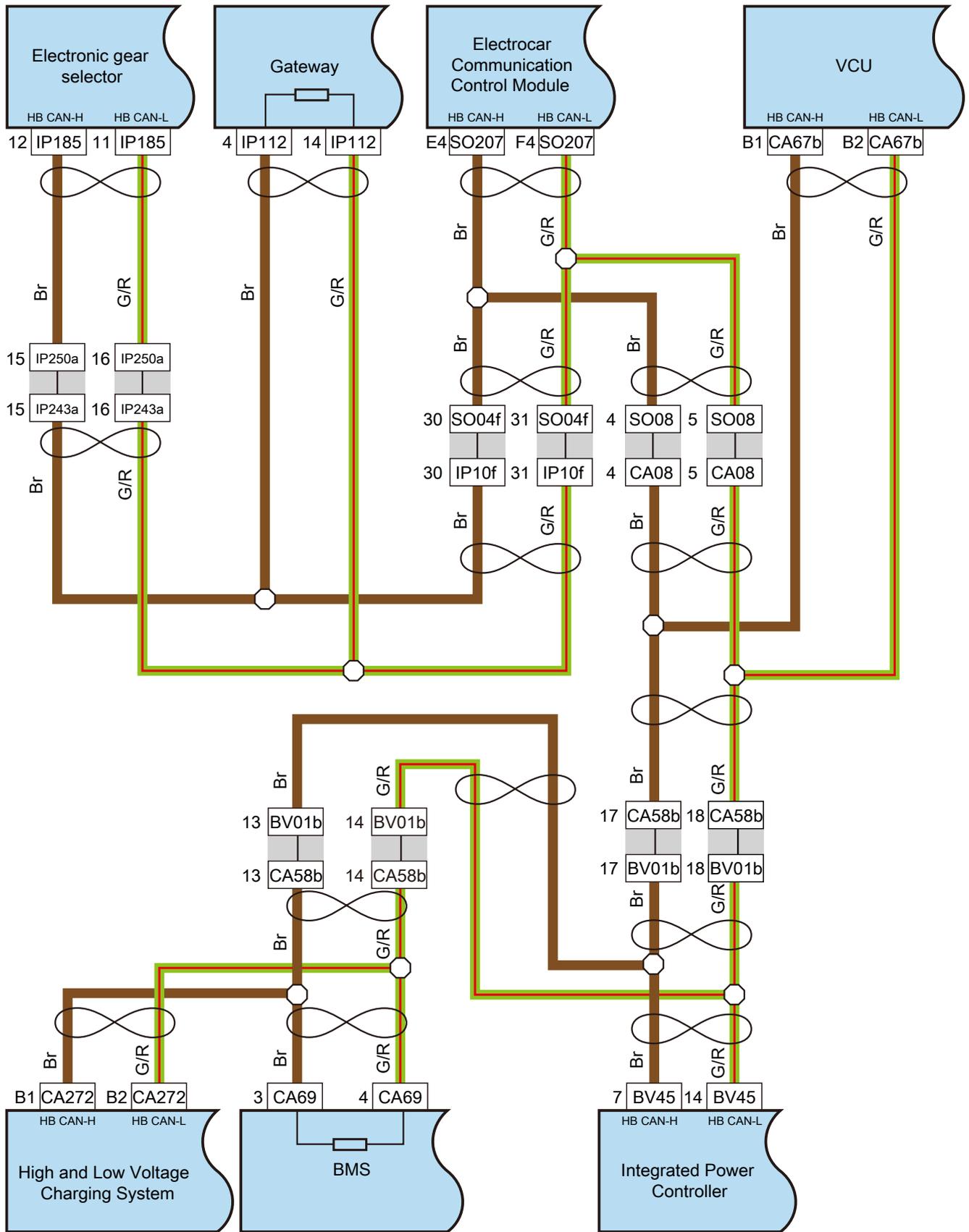
**Data Link Connector (DLC)**



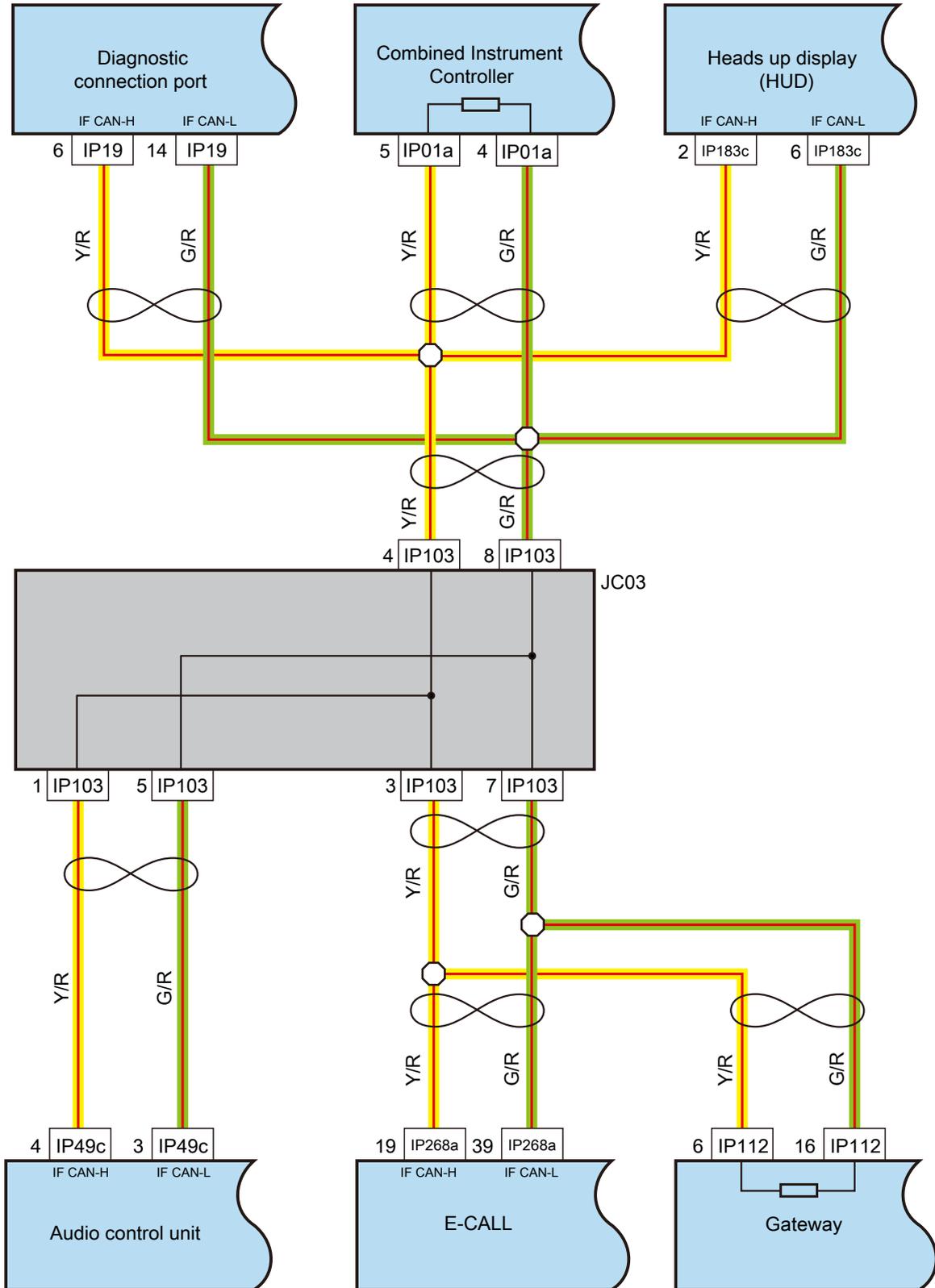
Gateway



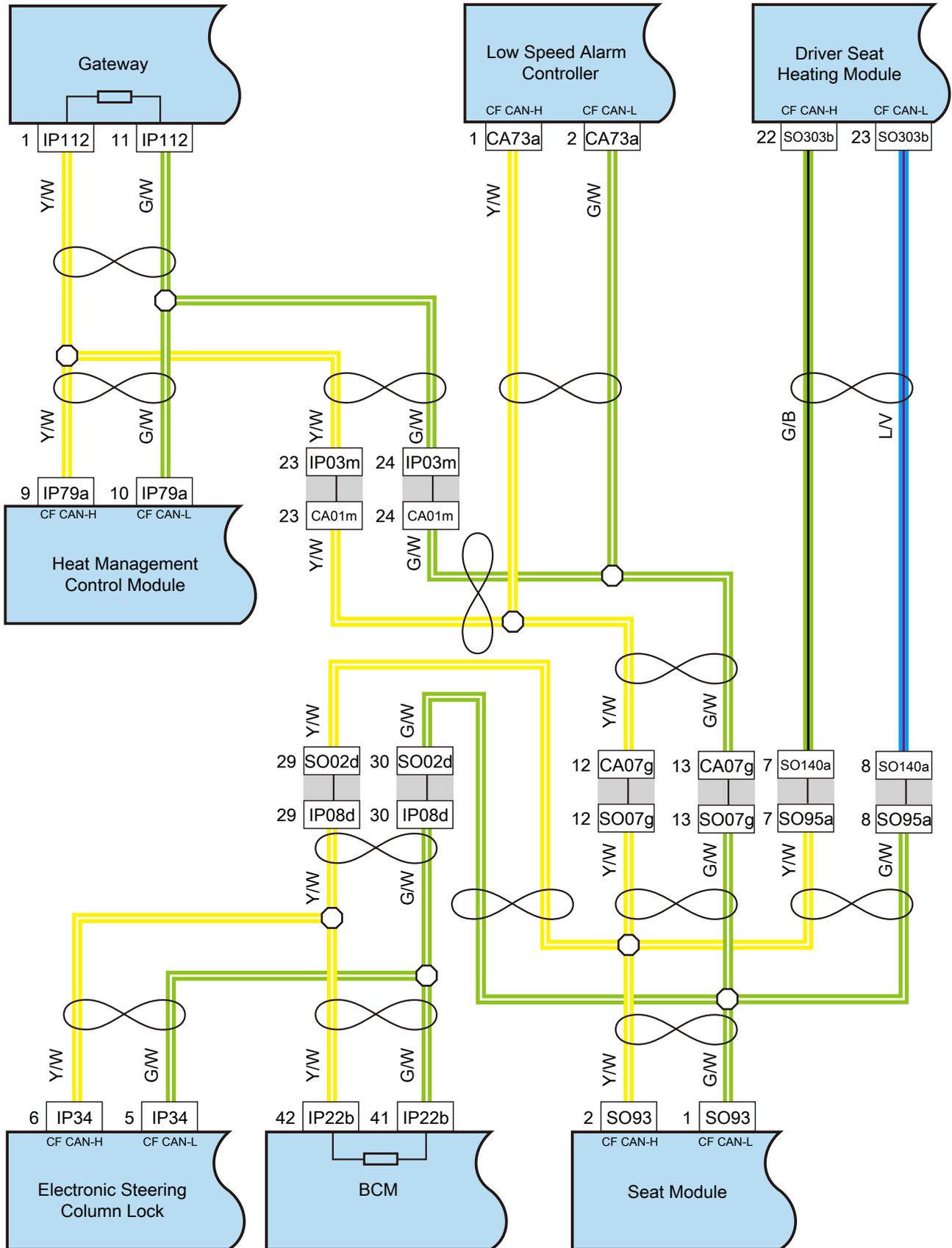
Vehicle Bus Communications Network (HB\_CAN)



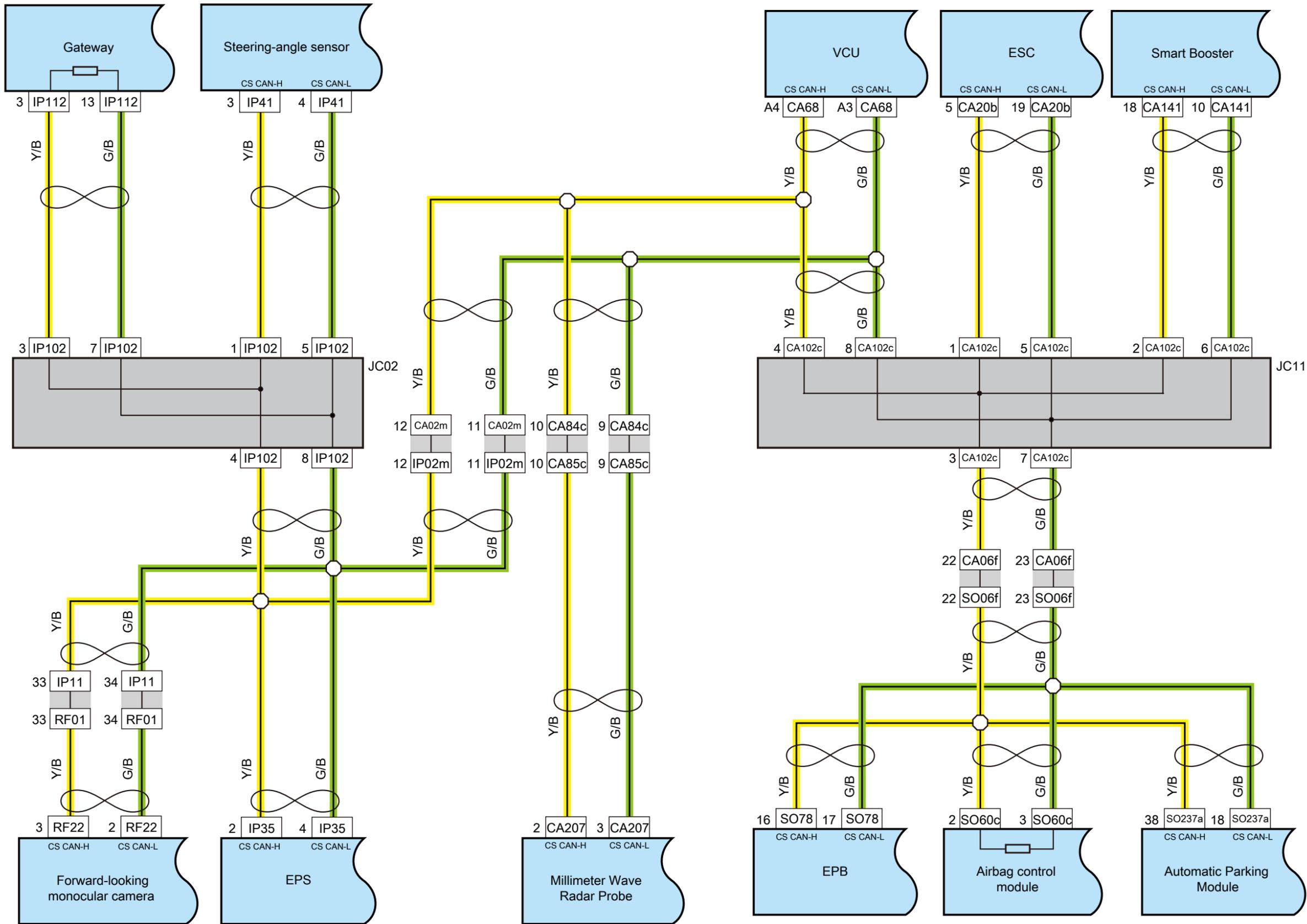
### Vehicle Bus Communications Network (IF\_CAN)



Vehicle Bus Communications Network (CF\_CAN)



Vehicle Bus Communications Network (CS\_CAN)



Bus Communication System (IB Private CAN)

