LIFAN MOTORS

Wiring Diagram

LIFAN 720

1.8 VVT



Ver:20131210

LIFAN INDUSTRY (GROUP) IMP. & EXP. CO., LTD

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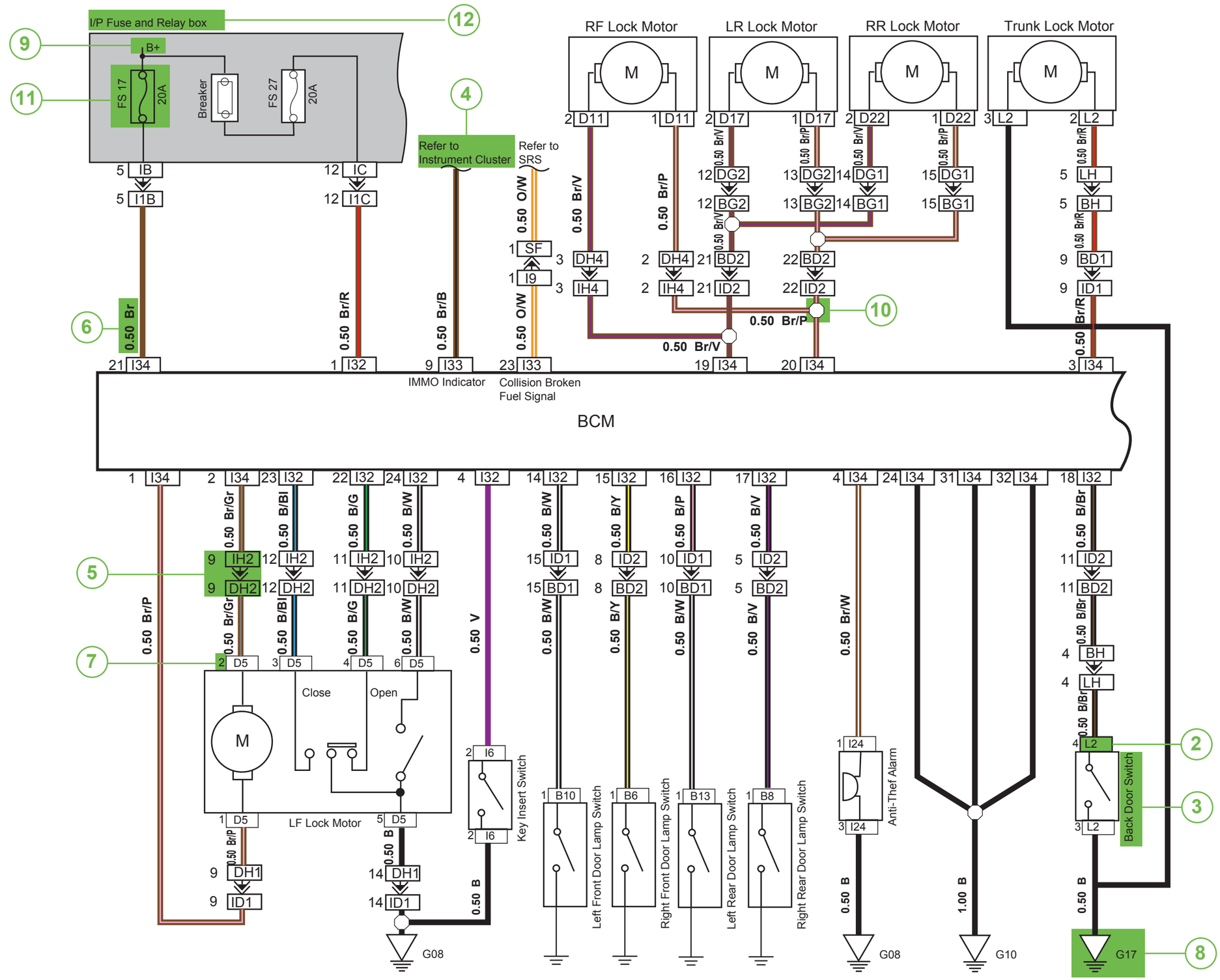
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Central Lock and Theft Deterrent System



1. System name.
2. Harness connector naming.

In this manual, the harness connector naming is based on harness. For example, I/P connector is named as I23. I is the harness code, 23 is the connector number.

The table below lists all harness:

Code	Harness
U	Engine compartment harness
U--	Engine compartment harness connector
E	Engine harness
E--	Engine harness connector
I	Instrument panel harness
I--	Instrument panel harness connector
B	Body harness
B--	Body harness connector
D	Door harness
D--	Door harness connector
S	Airbag harness
S--	Airbag harness connector
L	Back door harness
L--	Bak door harness connector
R	Roof harness
R--	Roof harness connector
A	EPS harness
A--	EPS harness connector
F	Right floor harness
F--	Right floor harness connector
H	Rear vehicle body harness
H--	Rear vehicle body harness connector
V	Reverse radar harness
V--	Reverse radar harness connector

Note：

1 Door harness includes four door harnesses.

2 For hareness connector details, please refer to connector location views.

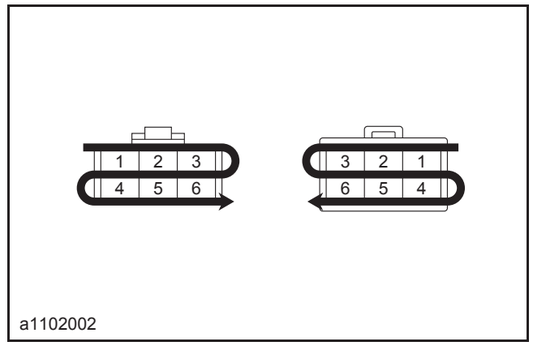
3. Component name.
4. System information.
5. Harness to harness connector.The character in the box is the connector code.
6. Wire color and diameter. The following table showes the color code.

Color Code	Wire Color	Legend
B	Black	
Br	Brown	
Bl	Blue	
G	Green	
Gr	Grey	
O	Orange	
P	Pink	
R	Red	
V	Purple	
W	White	
Y	Yellow	

If a wire has two colors, the first character shows the background color and the second shows the stripe color, divided by **"/"**.

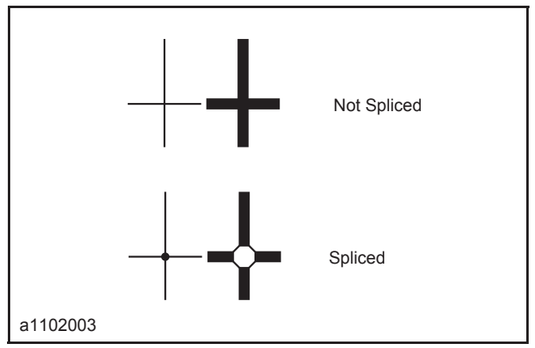
For example,**YE/WH** means yellow background color with white stripe.

7. Pin number. The connector pin numbers are mirrored to the ones that connect to them, as shown below:



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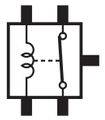
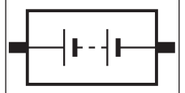
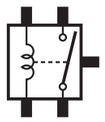
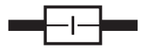
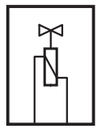
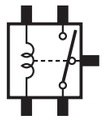
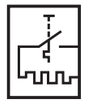
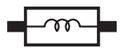
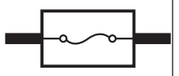
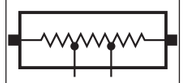
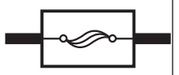
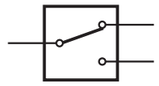
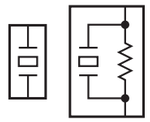
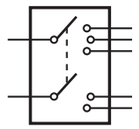
8. Ground number. The ground number starts with G. For ground details, please refer to ground location views.
9. Fuse supply. +B represents battery power supply. ACC represents power supply when ignition switch is at "ACC" position. IG2 represents power supply from terminal 4 when ignition switch is at "ON" position. IG1 represents power supply from terminal 2 when ignition switch is at "ON" position.
10. Splice

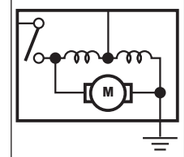
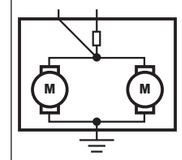
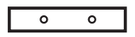
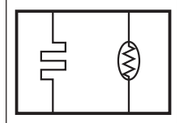
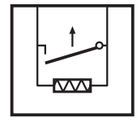
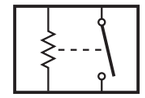
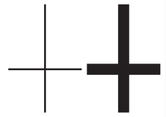


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11. Fuse number consists of fuse code and a sequential number.
12. Grey shade means fuse and relay box.

Symbol

	Ground		Relay-Normally Closed		Battery
	Temperature Sensor		Relay-Normally Open		Capacitor
	Solenoid		Double Throw Relay		Cigarette Lighter
	Solenoid		Resistor		Antenna
	Light Load Fuse		Potentiometer		Switch-Normally Open
	Mederate Load Fuse		Rheostat		Switch-Normally Closed
	Heavy Load Fuse		Ignition Coil		Double Throw Switch
	Heater		Knock Sensor		Ignition Switch

	Diode		Bulb		UTP (Unshielded Twisted Pair)
	Photodiode		Wire Direction		Starter
	Light Emitting Diode		Horn		Fan Assembly
	Motor		Clock Spring		Oxygen Sensor
	Limit Switch		Airbag		Low Speed Fan Relay B
	No Splice		Splice		

a1104002

Circuit Diagnostic Procedure

Refer to the following procedure for the circuit diagnosis:

1. Confirm the Fault

   To do the proper repair, confirm the fault descibed by the customer firstly. Inspect the relevant component carefully and make record. DO NOT disassemble the component before confirmation of the fault scope and causes.

2. Read the Wiring Diagram and Analyze the Causes.

   Make a complete analysis on the faulty components from power supply to ground according to the sub-system wiring diagram and determine the repair solution. If can not determine the repair solution, please read the system description in the “Description and Operation” in the workshop manual to clear the working principle. And inspect other circuits that has common part with the faulty circuit, for example, the fuse, ground, switch, etc. Inspect the circuit not covered in step 1. If other components on the common circuit work properly, it means the fault exists in its own circuit. Otherwise, the fuse or ground might has faults.

3. Inspect the Circuits and Components.

   Always use the wiring diagram together with workshop manual and refer to the diagnostic procedure for the relevant circuits or components in the workshop manual. For the circuit with a control module, fully use diagnostic tools to do the test. Effective diagnosis should be a logical and reasonable operation. Fully use the diagnoistic procedures in the workshop manual and start the inspection from the most likely causes and the compents be easiest to inspect.

4. Repair

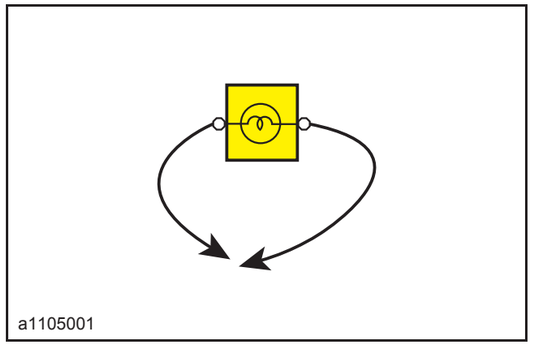
   Repair the faulty circuit. Refer to the wiring diagram and workshop manual for fault treatment. For example, the treatment on bad connection to ground and the harness connector.

5. Confirm the Fault Removed.

   After repair, confirm the fault removed and all functions work properly. For the fuse blown fault, check all the relevant circuits.

Circuit Diagnostic Device

1. Voltmeter and Test Light



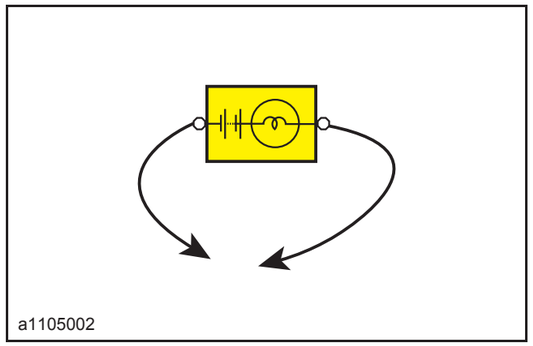
Use test light or voltmeter to check the circuit status.

Test light comprises a pair of wires and a 12V bulb. When inspecting, connect one wire to the ground and the other one to the measurement point. If the bulb is lit, it means the measurement point has power supply.

Warning：DO NOT use test light to test the control module voltage. To do so, it could damage the circuit inside the control module. Please use a voltmeter with 10M Ω or higher internal impedance (e.g. to test the ECM voltage.).

Voltmeter has the same connection method as the test light, but voltmeter can display the voltage value of the circuit. Use a voltmeter with high impedance to test the voltage. If the circuit has poor connection, the voltmeter may show the normal value, but the voltage can not drive the load successfully.

2. Test Light with Self-supply and Ohmmeter

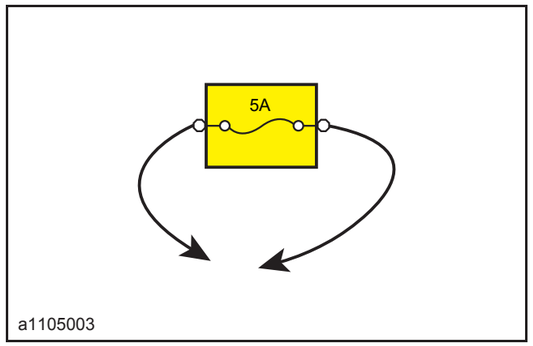


Use test light with own 12V power supply or ohmmeter to test the circuit continuity. Test light comprises a bulb, battery and a pair of wires. The bulb will be lit when the two wires contacted. Before test, disconnect the battery negative and pull out the fuse of the circuit to be tested. To test the circuit continuity, contact two wires to the two measurement points. If the bulb is lit, it means the circuit is continuous.

Warning：DO NOT use test light with self-supply to test the control module. To do so, it could damage the circuit inside the control module. Please use a ohmmeter with 10M Ω or higher internal impedance.

Ohmmeter has the same usage method as voltmeter, but ohmmeter can show the impedance value. The lower impedance, the better continuity.

3. Jumper with Fuse

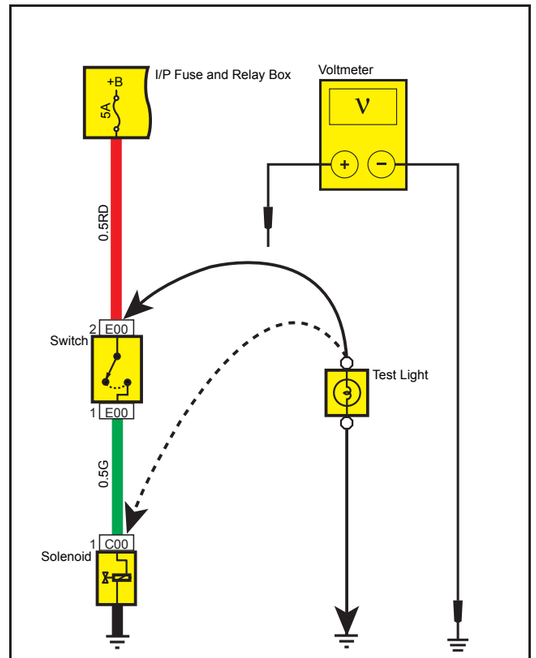


Use jumper to test a broken point for open loop circuit (circuit broken). The jumper should be in tandem with the circuit to be tested.

Warning：To protect the circuit, DO NOT use the fuse with higher rated capacity than the circuit to be tested. DO NOT use the jumper as the input or output signal when a control module like ECM, TCM is in the circuit. To do so, it could damage the circuit inside the control module.

Fault Test

1. Voltage Test



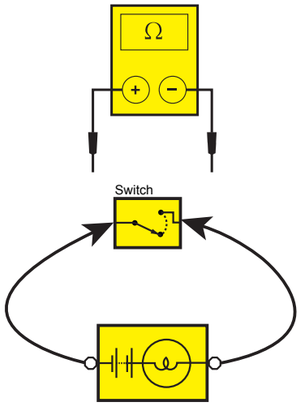
Voltage test process is to test the voltage at a certain point. When testing the connector terminals, insert the positive probe into the wire instead of breaking the harness.

1 When testing the voltage with test light or voltmeter, connect the negative wire of the test light or the negative probe of the voltmeter to the ground.

2 Connect the other wire of the test light or the positive probe of the voltmeter to the place to be tested.

3 It means circuit fualt if light is not lit. If using voltmeter and voltage display is lower than the rated value with more than 1V, it means the circuit fault.

2. **Power Test**



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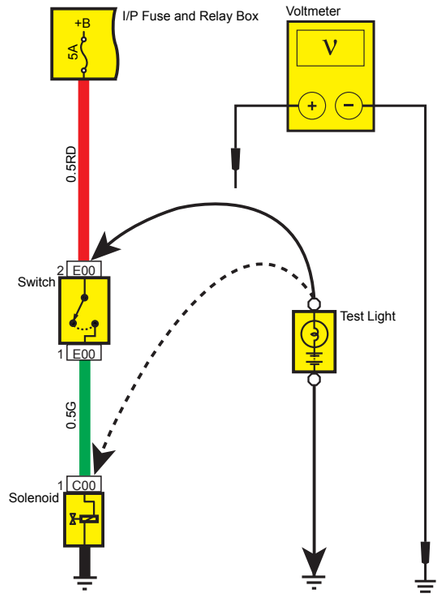
1 Disconnect the battery negative.

2 Connect one of the wire of the test light with self-supply or the probe of the ohmmeter to the component to be tested. If using ohmmeter, please contact the two probes each other and use reset button to adjust the ohometer to zero.

3 Connect the other wire of the test light or probe of the ohmmeter to the other side of the load to be tested.

4 If the bulb is lit, it means the circuit is continuous. If using ohmmeter, the impedance value should be very small or close to 0Ω.

3. Short Circuit Test



a1105004

1 Disconnect battery negative.

2 Connect one of the wire of the test light with self-supply or the probe of the ohmmeter to the outlet terminal of the fuse.

3 Connect the other wire of the test light or probe of the ohmmeter to the ground.

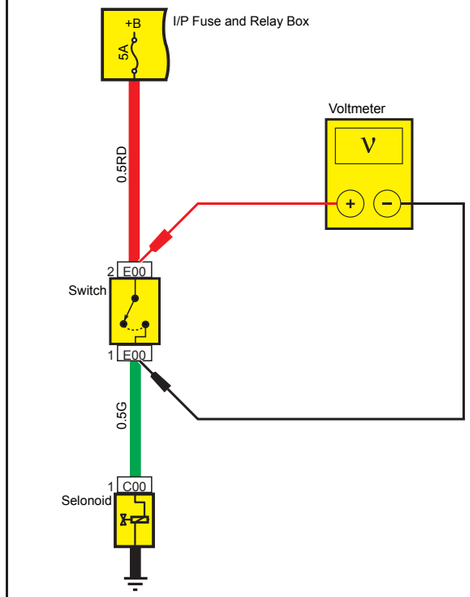
4 Disconnect all the loads to the fuse.

⚠ Note: If not disconnect all the loads to the fuse, when testing the low impedance circuit like lights, the ohmmeter will always display the low impedance value. This will cause wrong judgement.

5 Do the careful test from the place closest to the fuse.

6 If the bulb is lit or ohmmeter has value display less than 5 Ω, it means the short circuit to the ground.

4. Voltage Drop Test



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This is to test the voltage drop along the wire, connector or switch.

1 Connect the positive probe of the voltmeter to the end of the circuit close to the battery (connector or switch side).

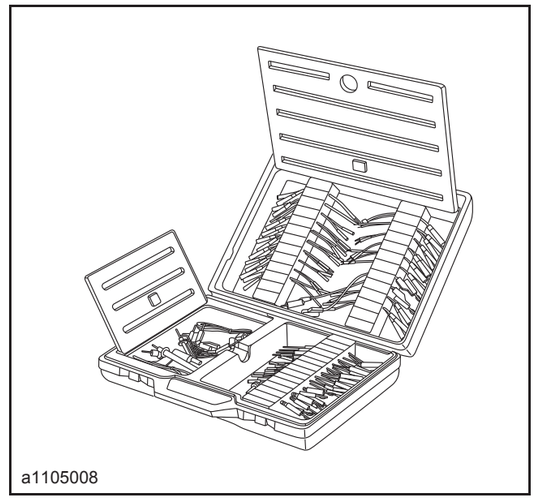
2 Connect the negative probe to the other end of the circuit (the other side of the connector or switch).

3 Disconnect switch or connect it.

4 The voltmeter will display the voltage drop between the two test points.

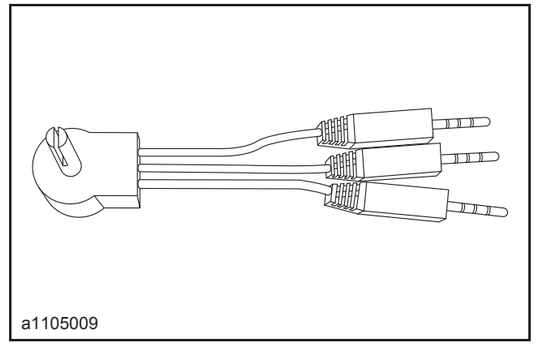
5 If the drop is more than 0.1 V (less than 50 mV for 5 V voltage circuit), it means the circuit fault. Check loose, oxidation or corrosion circuit.

Repair Tools



a1105008

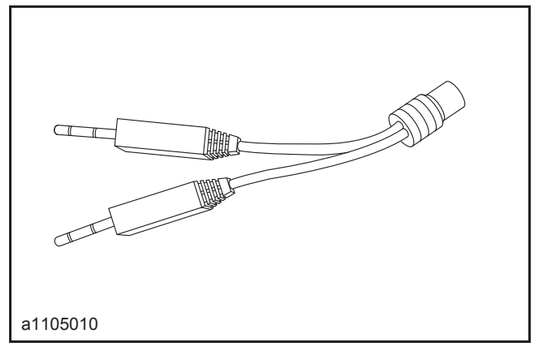
1. 5 KΩ Rheostat



a1105009

It can simulate ohm-type sensor sginals, like coolant temperature sensor, air intake temperature sensor, etc. And help to make quick adjustment on the performance of the component.

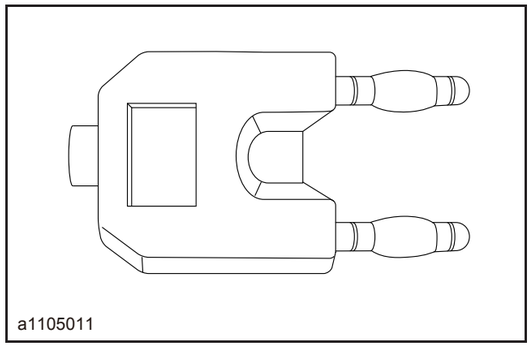
2. LED Test Light



a1105010

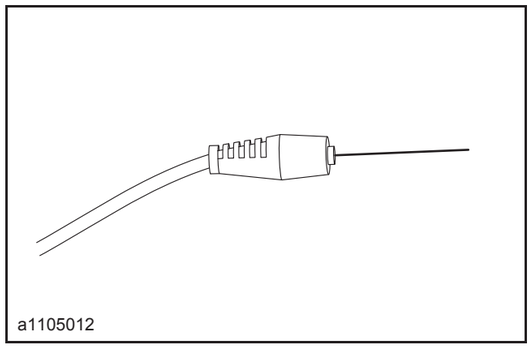
Bi-direction two-color LED light can change its color when exchanging the positive and negative. This feature can be used to test the PWM control signals of Hall sensor.

3. Airbag Test Tool


a1105011

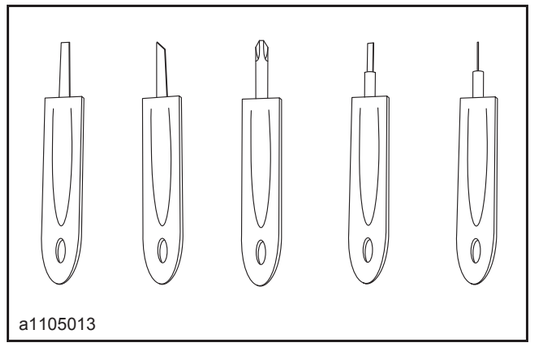
Before installing a new airbag, plug this tool to the airbag system, and use diagnostic tools to test the airbag system to confirm it works properly. After that, remove the airbag test tool and install the new airbag. This process can guarantee a safe airbag operation.

4. Probe


a1105012

When testing a system component, insert this tool into the connector from the back and do not need to break the harness.

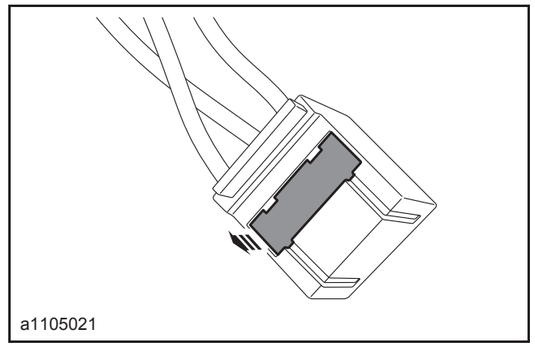
5. Terminal Repair Tool


a1105013

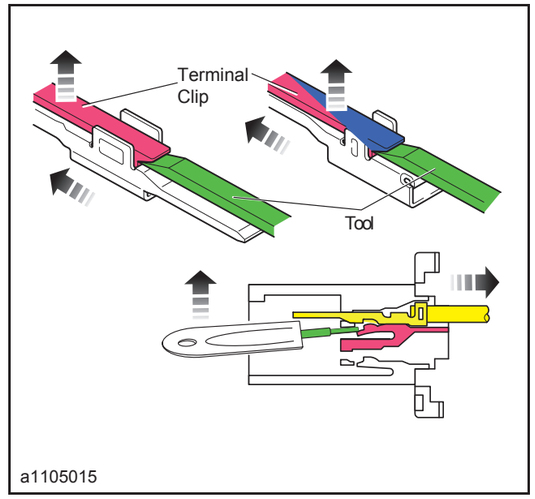
When repairing the terminals, use this tool to separate them from the connector.

Terminal Repair

1. Remove the terminal pin.

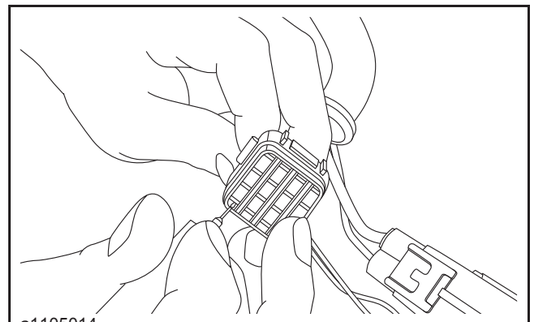

a1105021

2. Fix the clip with terminal repair tool.

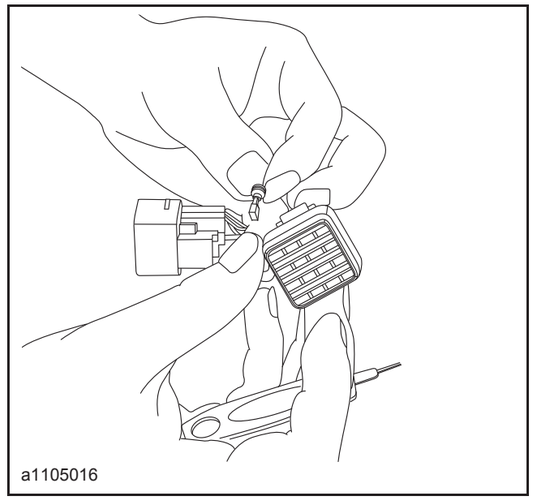


a1105015

3. Pull out the terminal from the rear of connector.

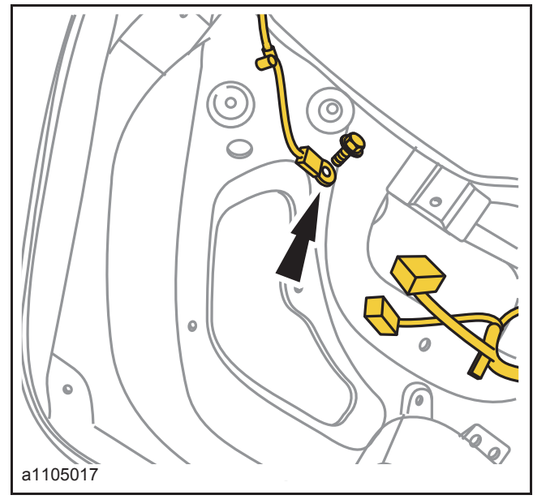

a1105014

4. Clean and repair the terminals.

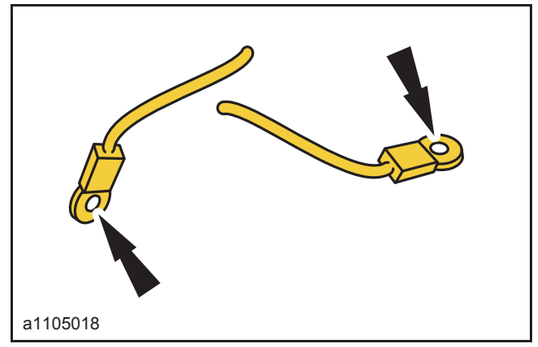

a1105016

Poor Ground Connection Repair

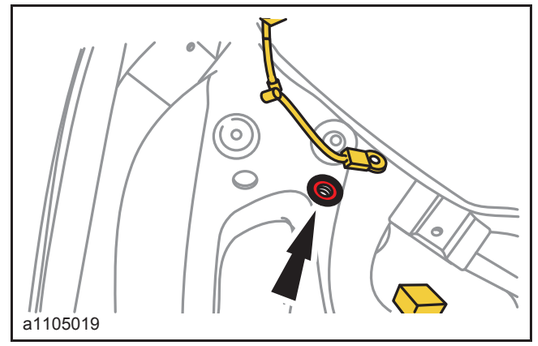
1. Remove the ground bolt.


a1105017

2. Clean the two surfaces (both bolt side and car contact side) of the copper ring with grit cloth until the oxide completely cleared.


a1105018

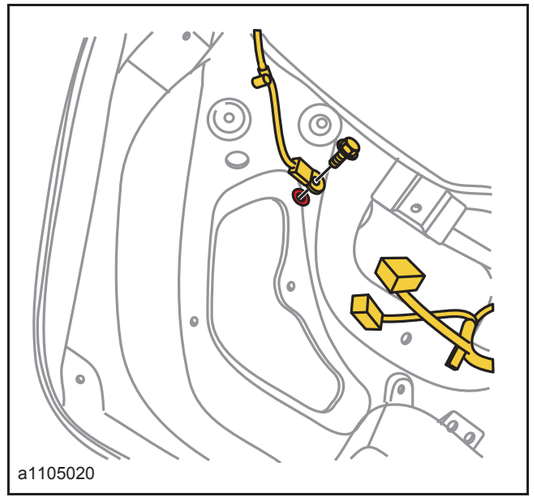
3. Clean the ground surface on the car with grit cloth until it completely clean.


a1105019

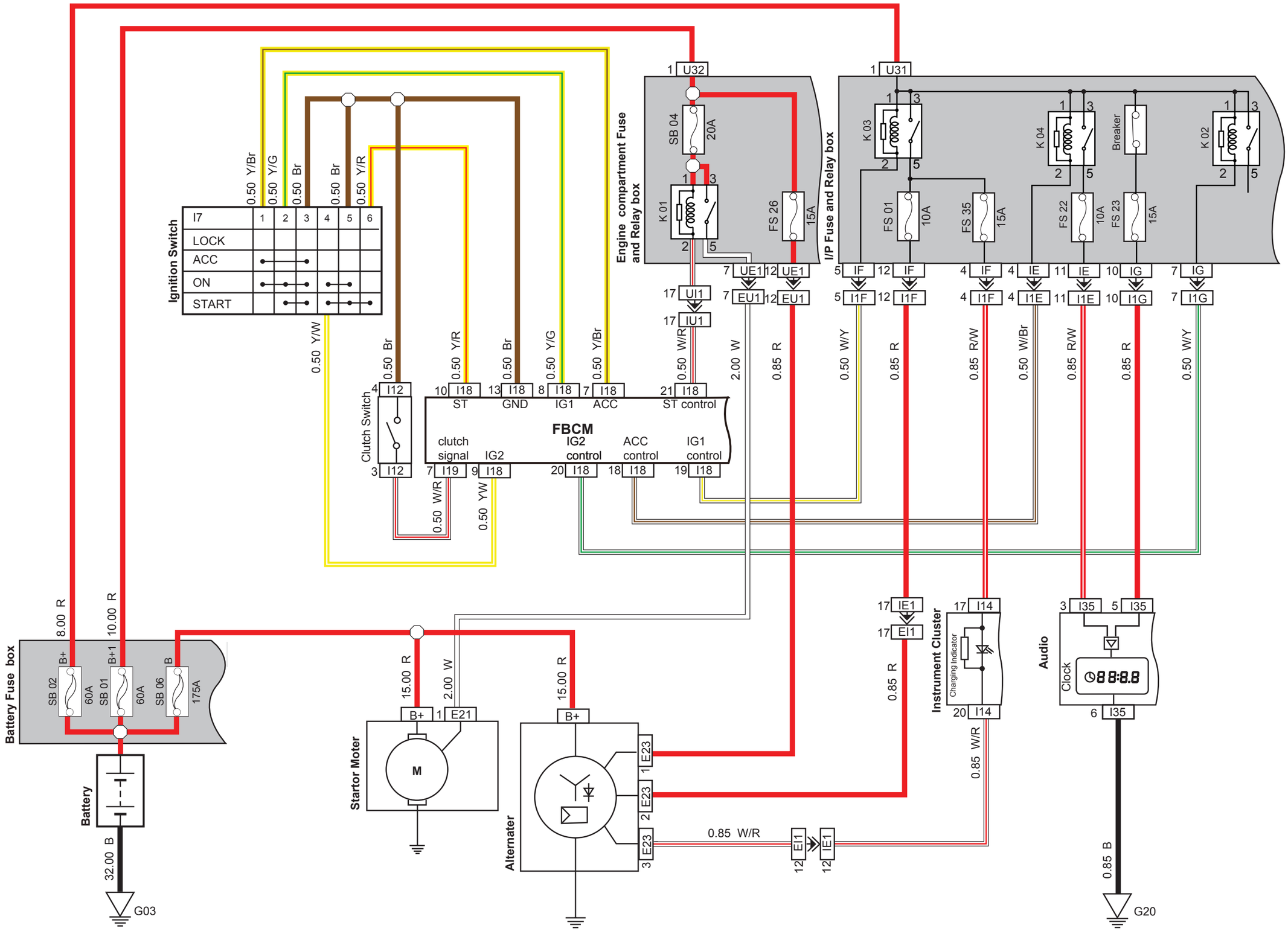
4. Install the harness and the bolt. Tighten to specified torque.

   Torque：M6 Bolts 8 Nm

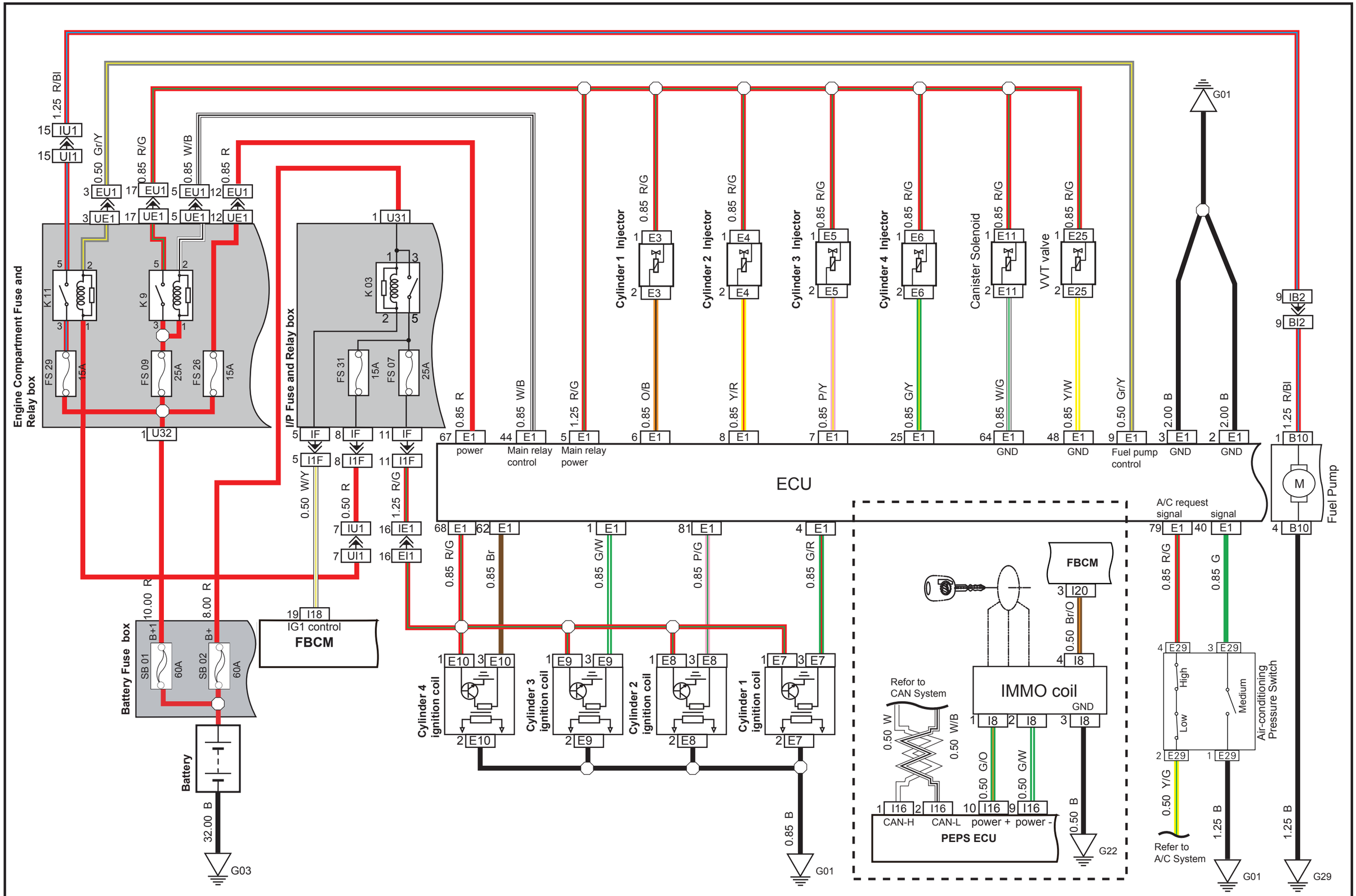
   M8 Bolts 20 Nm

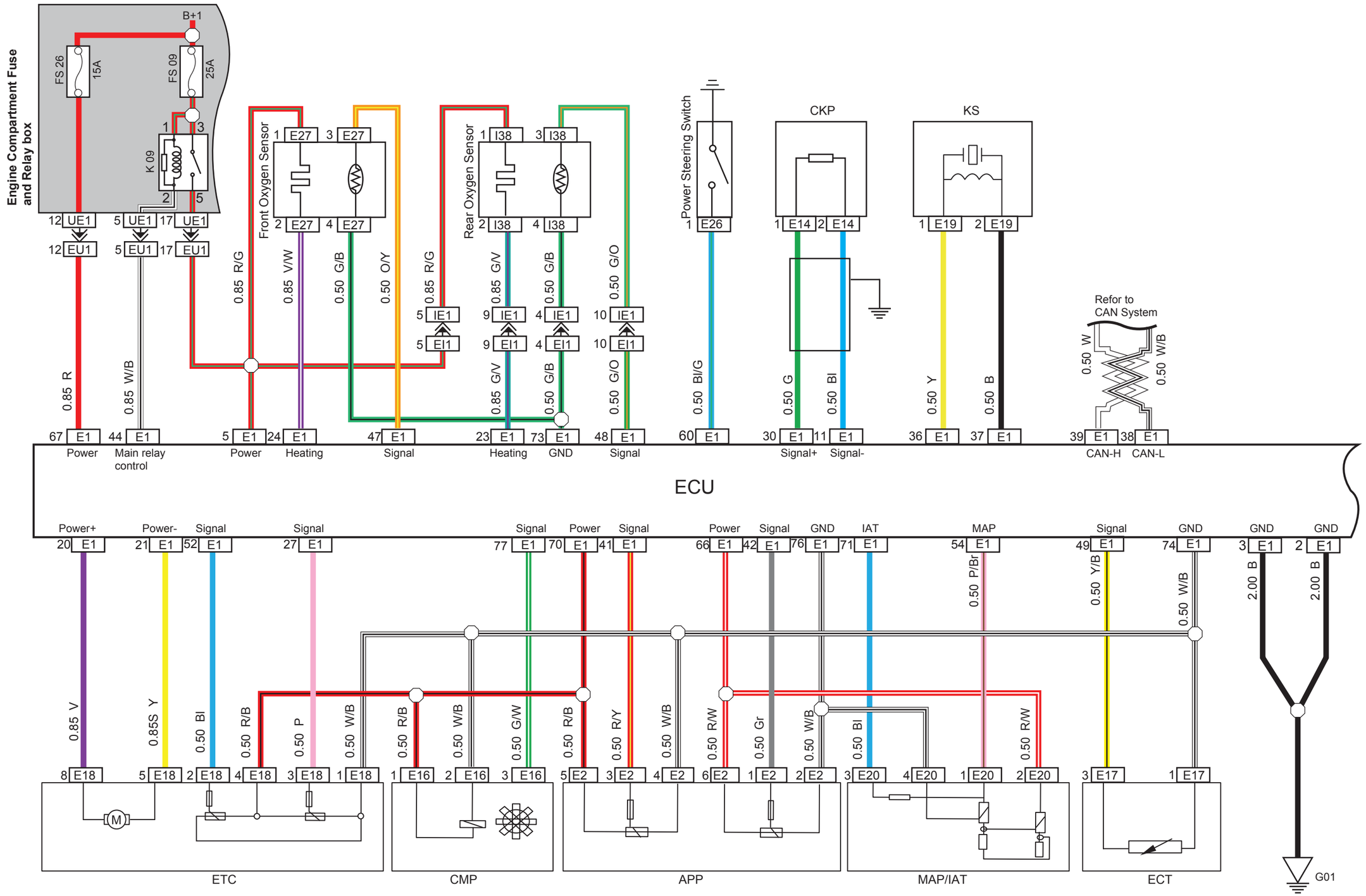


Charging System/Clock/Power/Starting System

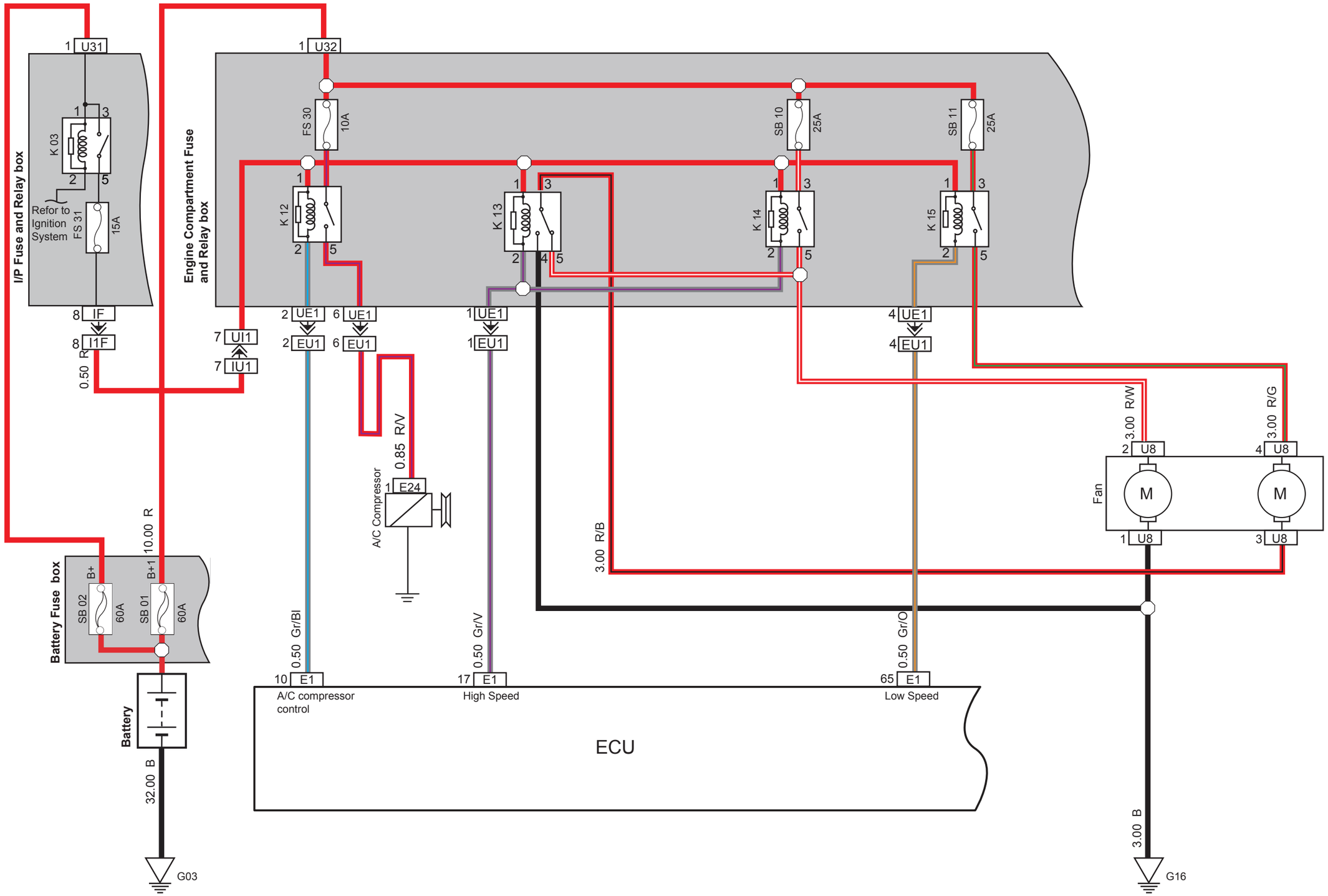


Ignition System / Fuel System

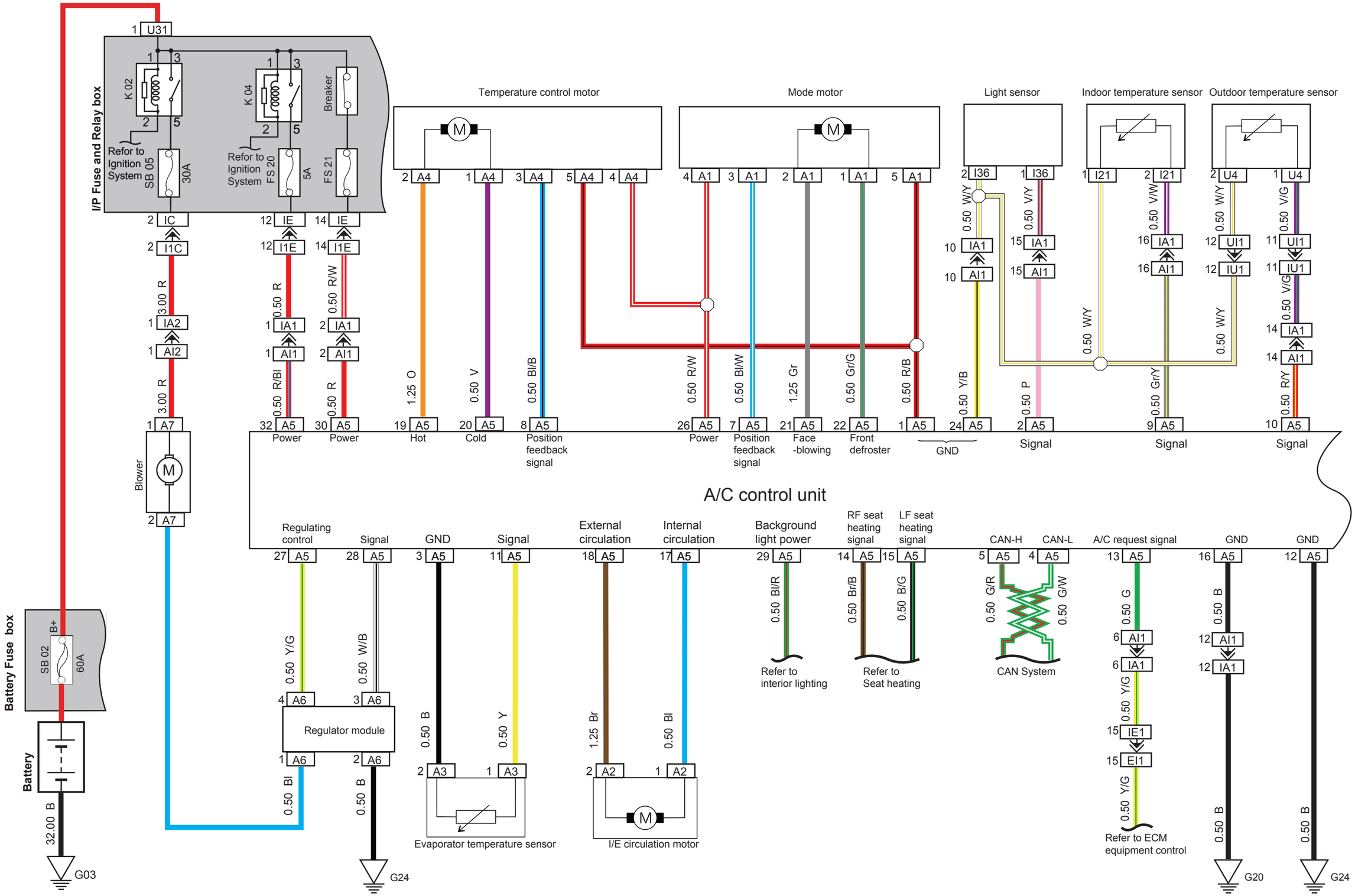



Engine Compartment Fuse and Relay box
B+1
FS 26
15A
FS 09
25A
K 09
Front Oxygen Sensor
Rear Oxygen Sensor
Power Steering Switch
CKP
KS
Refor to CAN System
0.85 R
0.85 W/B
0.85 R/G
0.85 V/W
0.50 G/B
0.50 O/Y
0.85 G/V
0.50 BI/G
0.50 G
0.50 BI
0.50 Y
0.50 B
0.50 W
0.50 W/B
Power
Main relay control
Heating
Signal
GND
Signal+
Signal-
CAN-H
CAN-L
ECU
Power+
Power-
0.85 V
0.85S Y
0.50 BI
0.50 R/B
0.50 P
0.50 W/B
0.50 G/W
0.50 R/Y
0.50 R/W
0.50 Gr
0.50 P/Br
0.50 Y/B
2.00 B
ETC
CMP
APP
MAP/IAT
ECT
G01

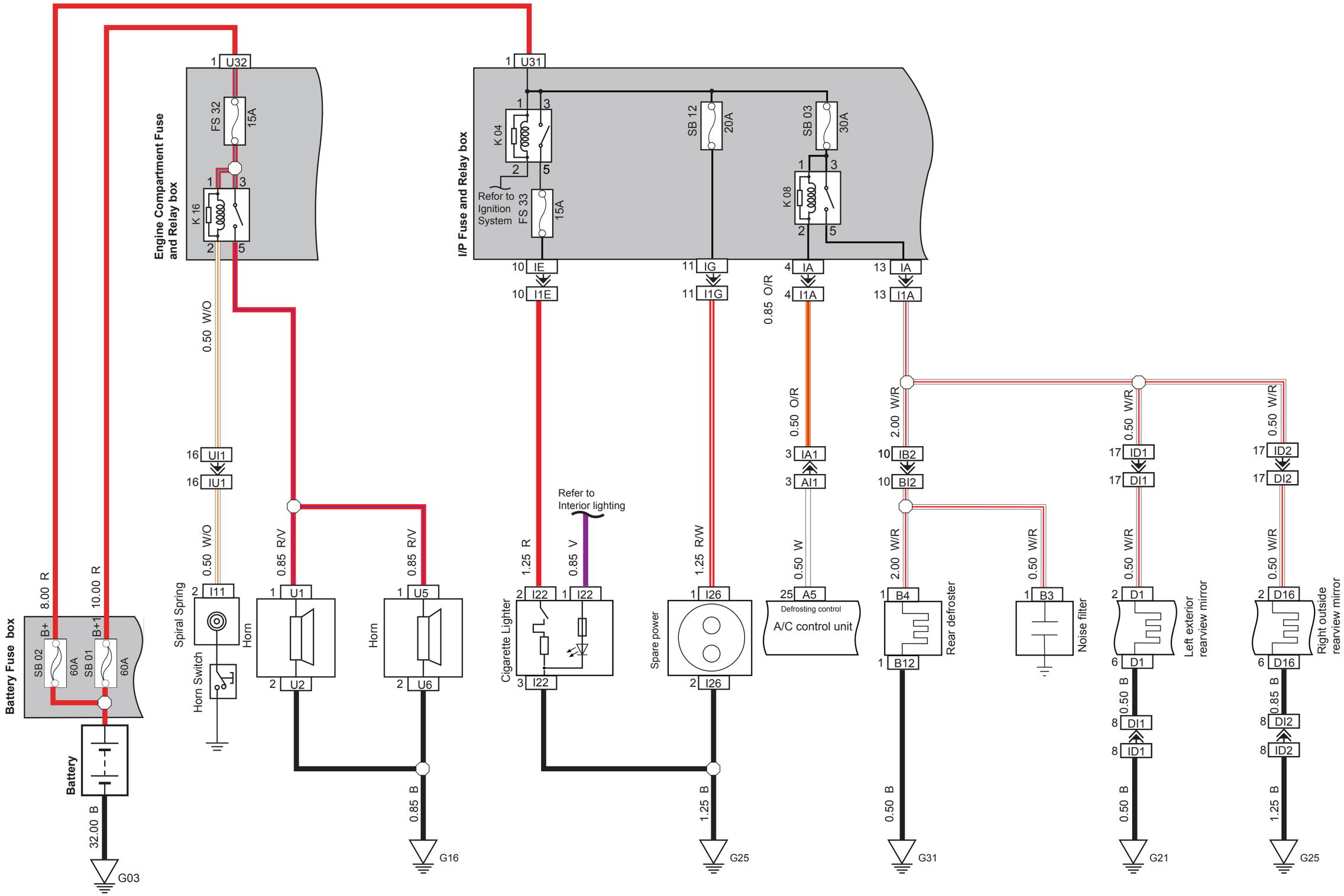
Cooling System / AC Compressor



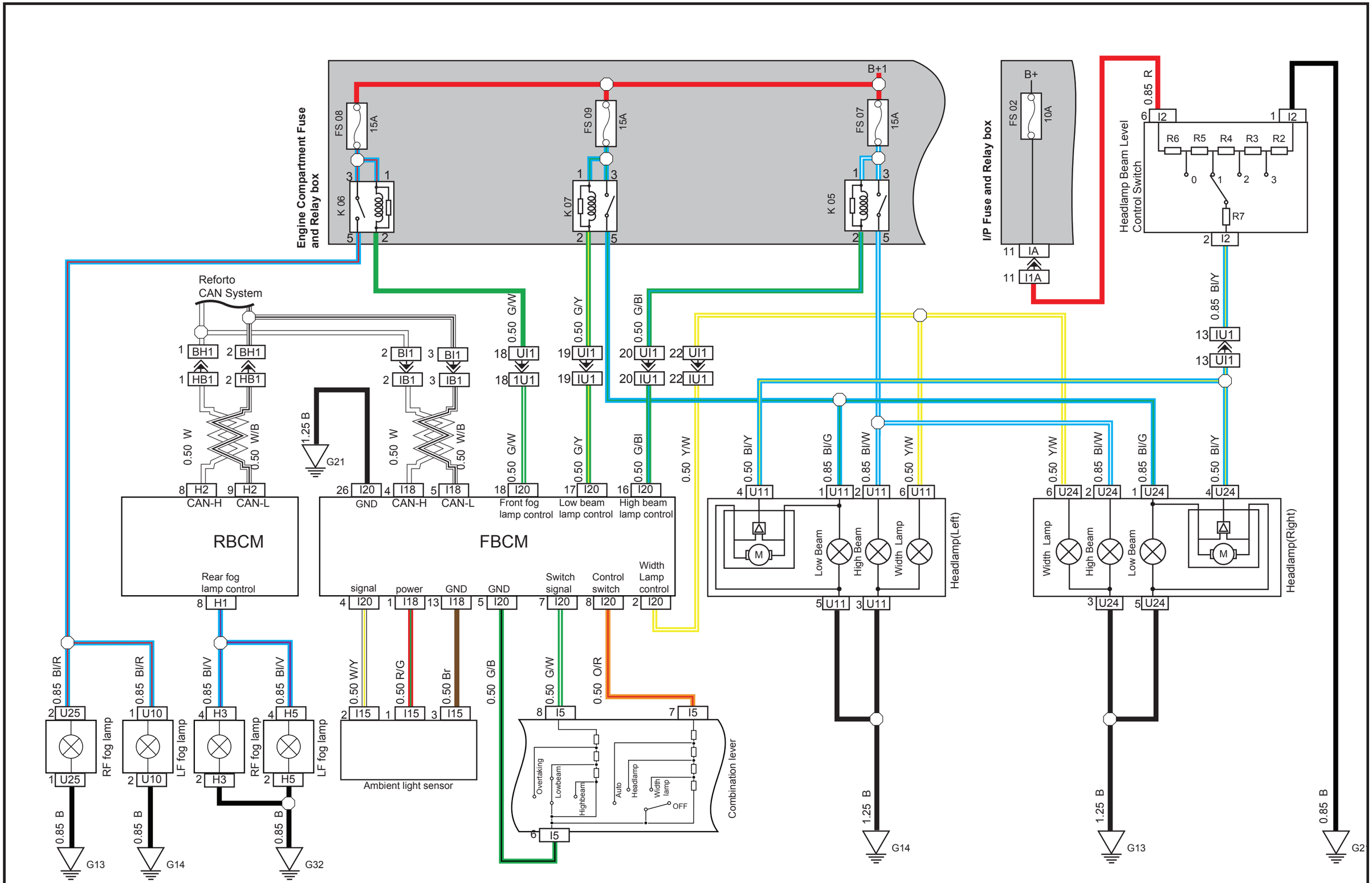
Air Conditioning/Rear Defroster/Rear View Mirror Heating



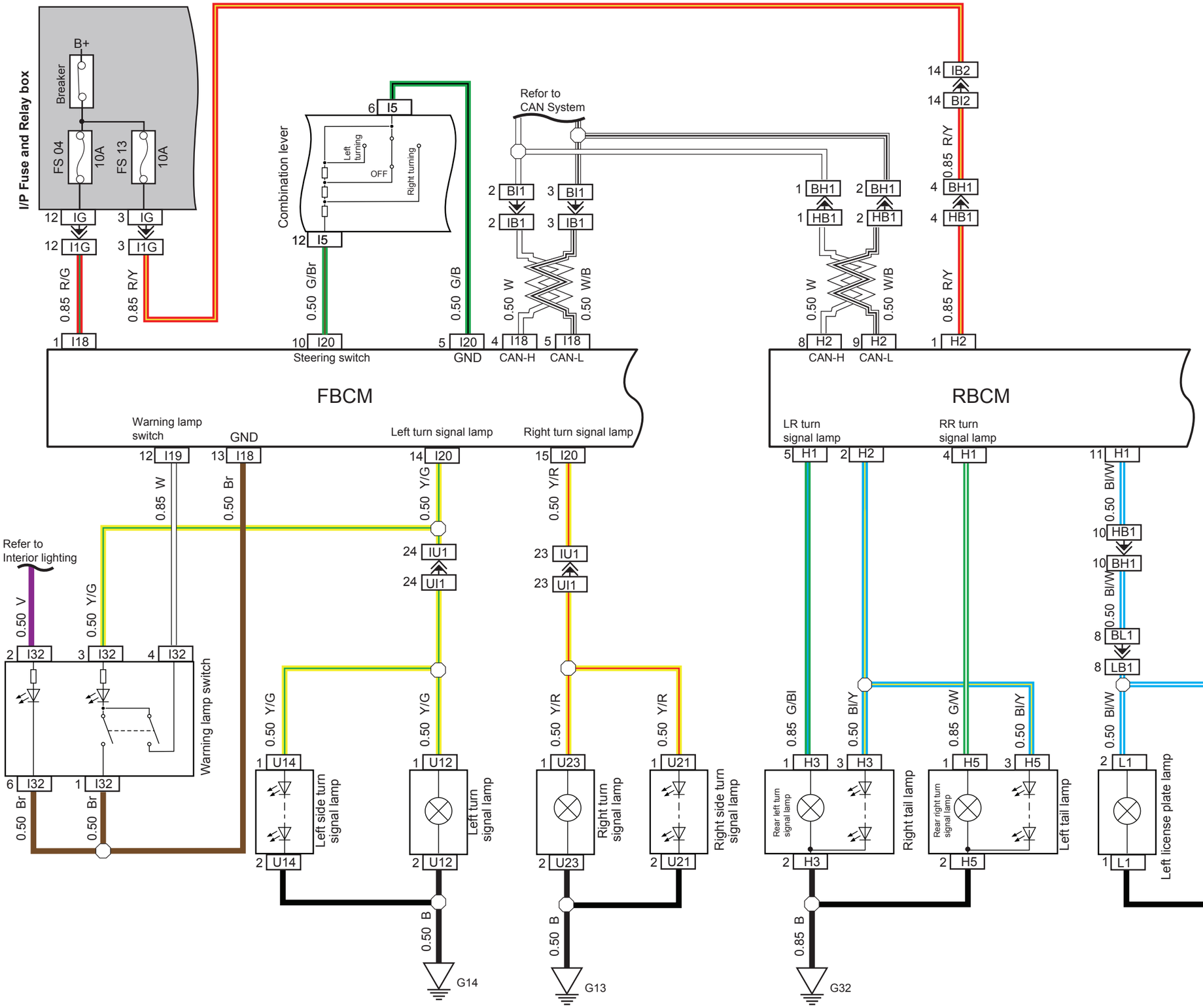
Cigarette Lighter / Horn / Rear Defroster



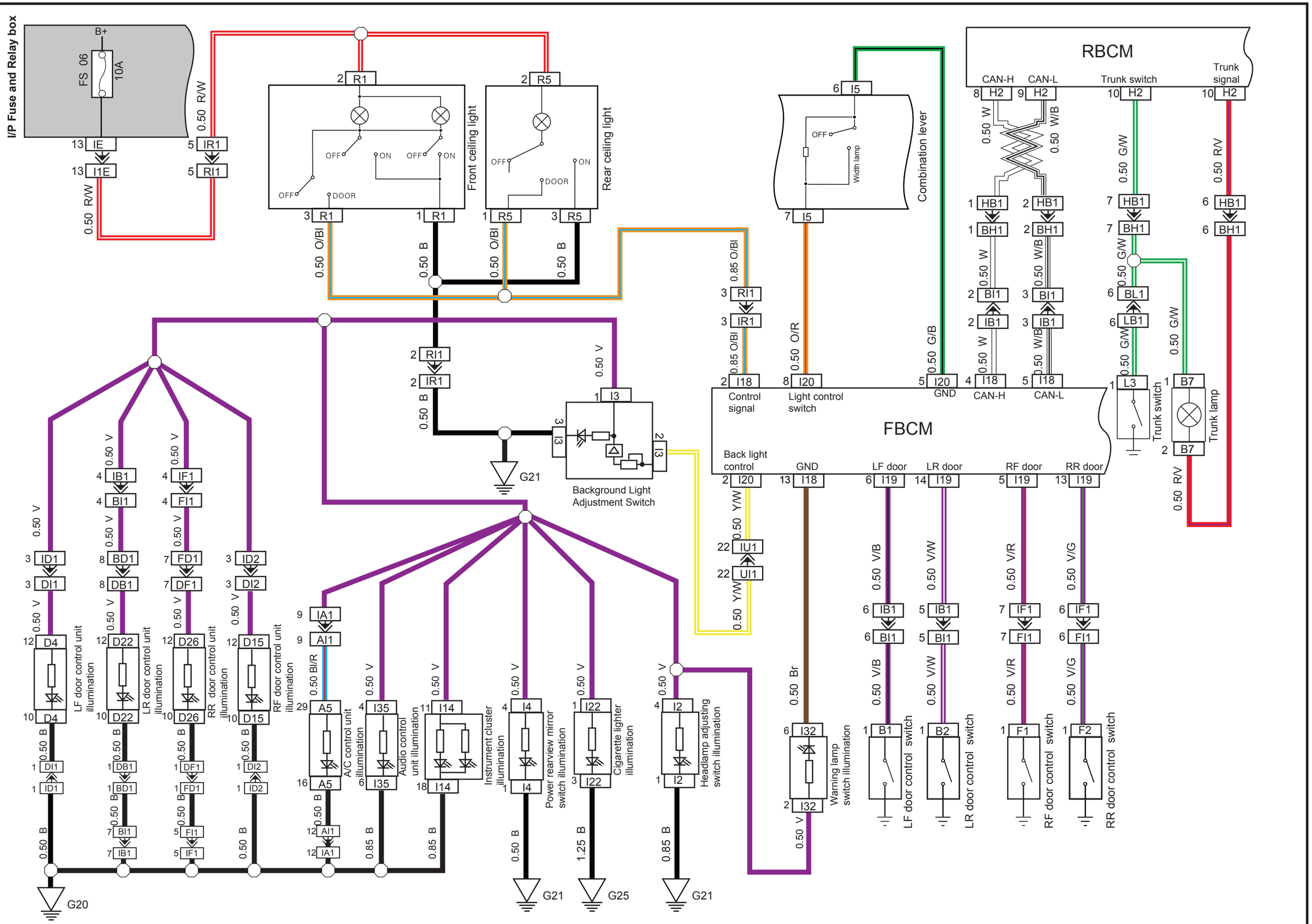
Headlamps/Width Lamps/Fog Lamp



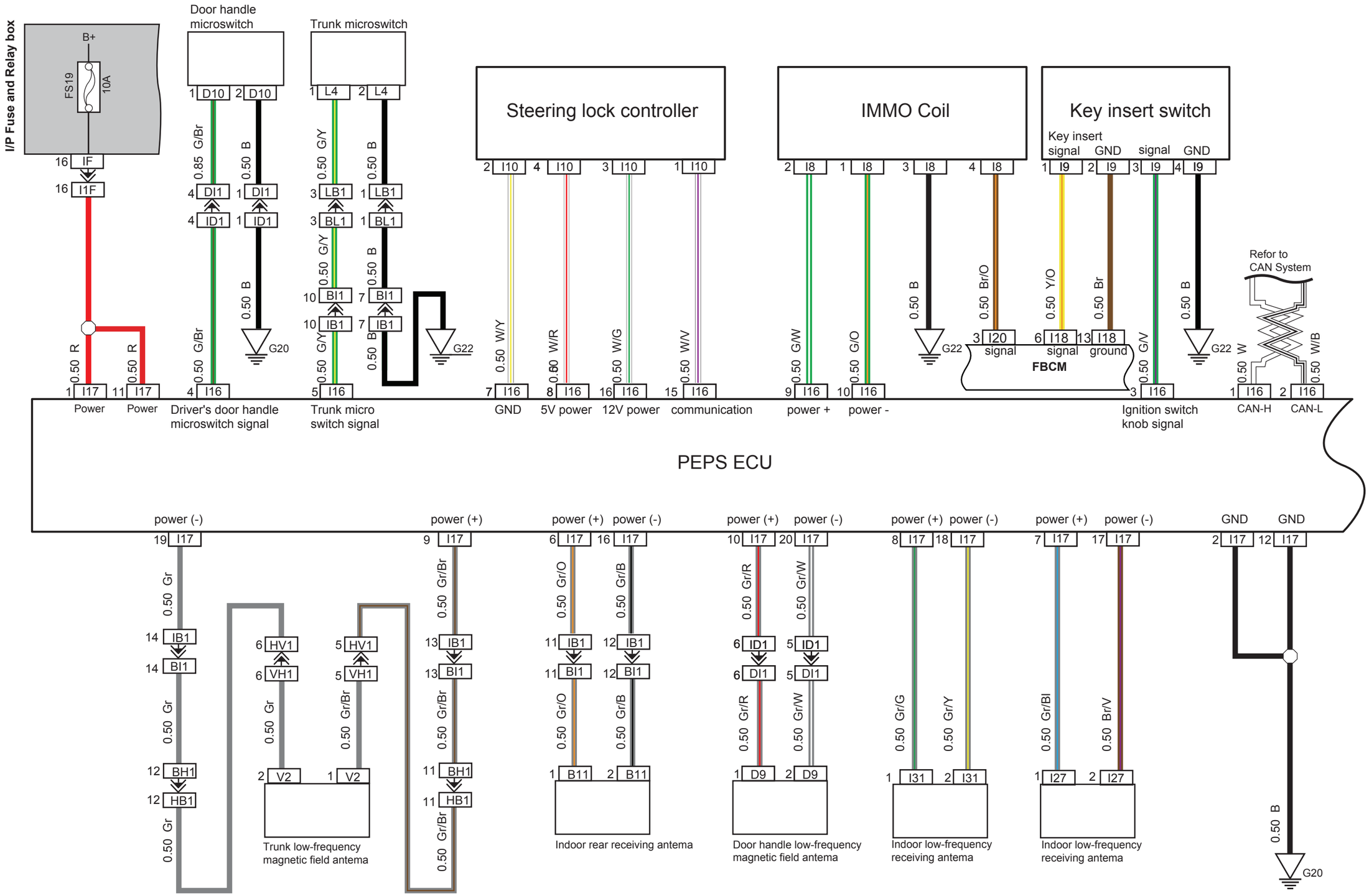
Left and Right Turn Lamp / Hazard Warning Lamp



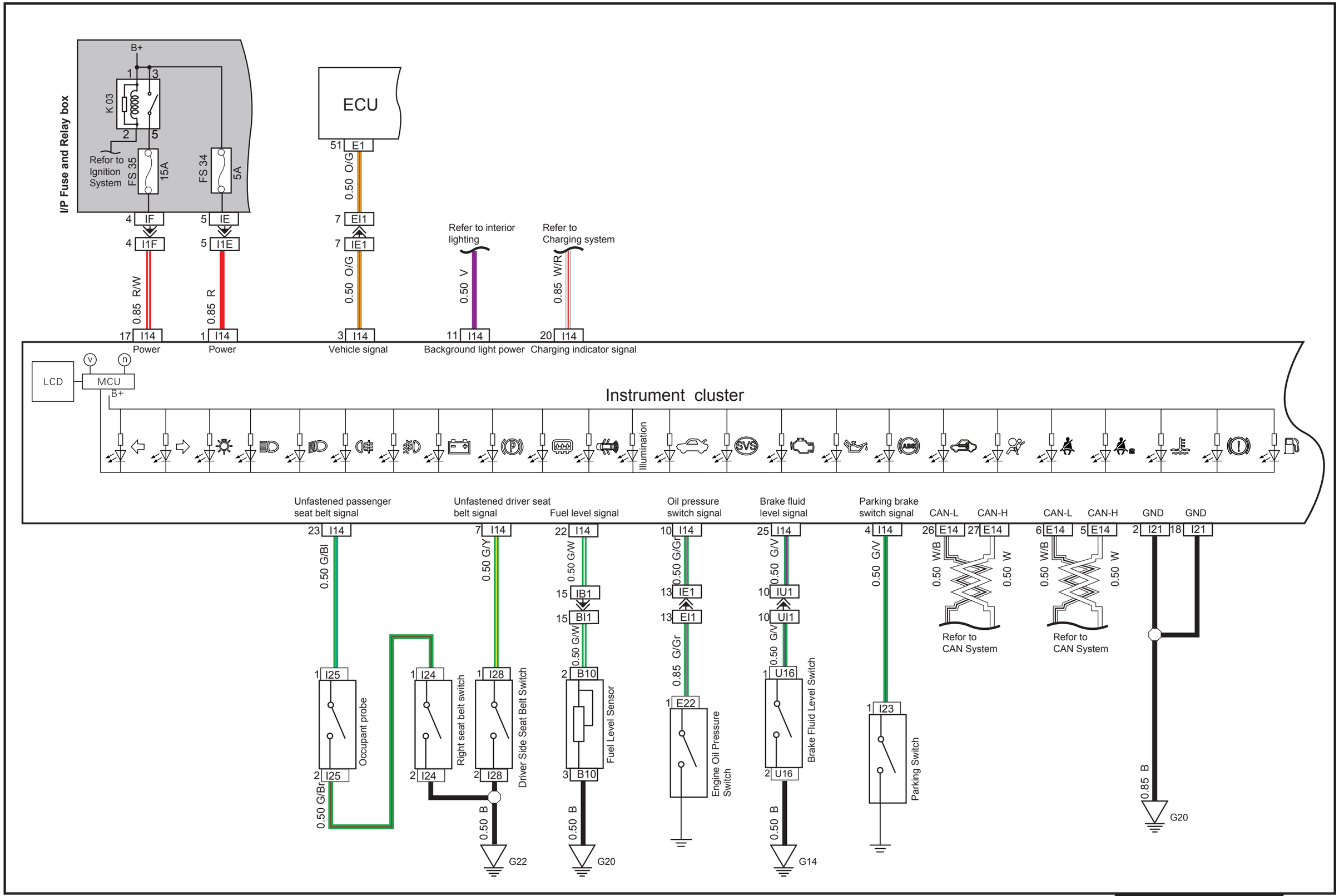
Interior Lighting



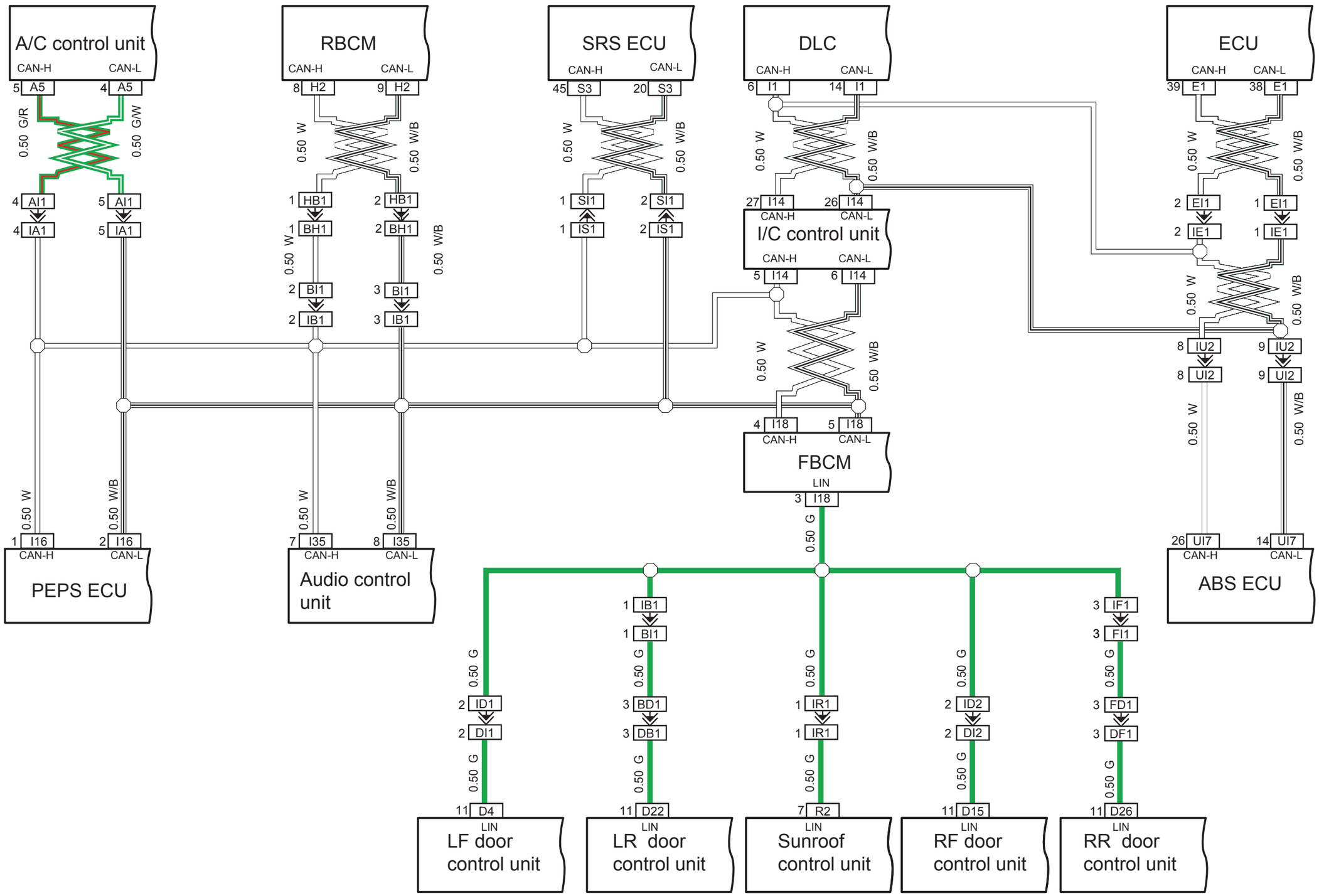
PEPS System


I/P Fuse and Relay box
B+
FS19
10A
16 IF
16 I1F
1 I17 Power
0.50 R
11 I17 Power
0.50 R
Door handle microswitch
1 D10 2 D10
0.85 G/Br
0.50 B
4 DI1 1 DI1
4 ID1 1 ID1
0.50 G/Br
0.50 B
4 I16 Driver's door handle microswitch signal
G20
Trunk microswitch
1 L4 2 L4
0.50 G/Y
0.50 B
3 LB1 1 LB1
3 BL1 1 BL1
0.50 G/Y
0.50 B
10 BI1 7 BI1
10 IB1 7 IB1
0.50 G/Y
0.50 B
5 I16 Trunk micro switch signal
G22
Steering lock controller
2 I10 4 I10 3 I10 1 I10
0.50 W/Y
0.50 W/R
0.50 W/G
0.50 W/V
7 I16 GND
8 I16 5V power
16 I16 12V power
15 I16 communication
IMMO Coil
2 I8 1 I8 3 I8 4 I8
0.50 G/W
0.50 G/O
0.50 B
0.50 Br/O
9 I16 power +
10 I16 power -
G22
3 I20 signal
Key insert switch
Key insert signal GND signal GND
1 I9 2 I9 3 I9 4 I9
0.50 Y/O
0.50 Br
0.50 G/V
0.50 B
6 I18 signal
13 I18 ground
FBCM
3 I16 Ignition switch knob signal
G22
Refor to CAN System
0.50 W
0.50 W/B
1 I16 CAN-H
2 I16 CAN-L
PEPS ECU
power (-)
19 I17
0.50 Gr
14 IB1
14 BI1
0.50 Gr
12 BH1
12 HB1
0.50 Gr
6 HV1
6 VH1
0.50 Gr
2 V2
5 HV1
5 VH1
0.50 Gr/Br
1 V2
Trunk low-frequency magnetic field antema
power (+)
9 I17
0.50 Gr/Br
13 IB1
13 BI1
0.50 Gr/Br
11 BH1
11 HB1
0.50 Gr/Br
power (+) power (-)
6 I17 16 I17
0.50 Gr/O
0.50 Gr/B
11 IB1 12 IB1
11 BI1 12 BI1
0.50 Gr/O
0.50 Gr/B
1 B11 2 B11
Indoor rear receiving antema
power (+) power (-)
10 I17 20 I17
0.50 Gr/R
0.50 Gr/W
6 ID1 5 ID1
6 DI1 5 DI1
0.50 Gr/R
0.50 Gr/W
1 D9 2 D9
Door handle low-frequency magnetic field antema
power (+) power (-)
8 I17 18 I17
0.50 Gr/G
0.50 Gr/Y
1 I31 2 I31
Indoor low-frequency receiving antema
power (+) power (-)
7 I17 17 I17
0.50 Gr/Bl
0.50 Br/V
1 I27 2 I27
Indoor low-frequency receiving antema
GND GND
2 I17 12 I17
0.50 B
G20

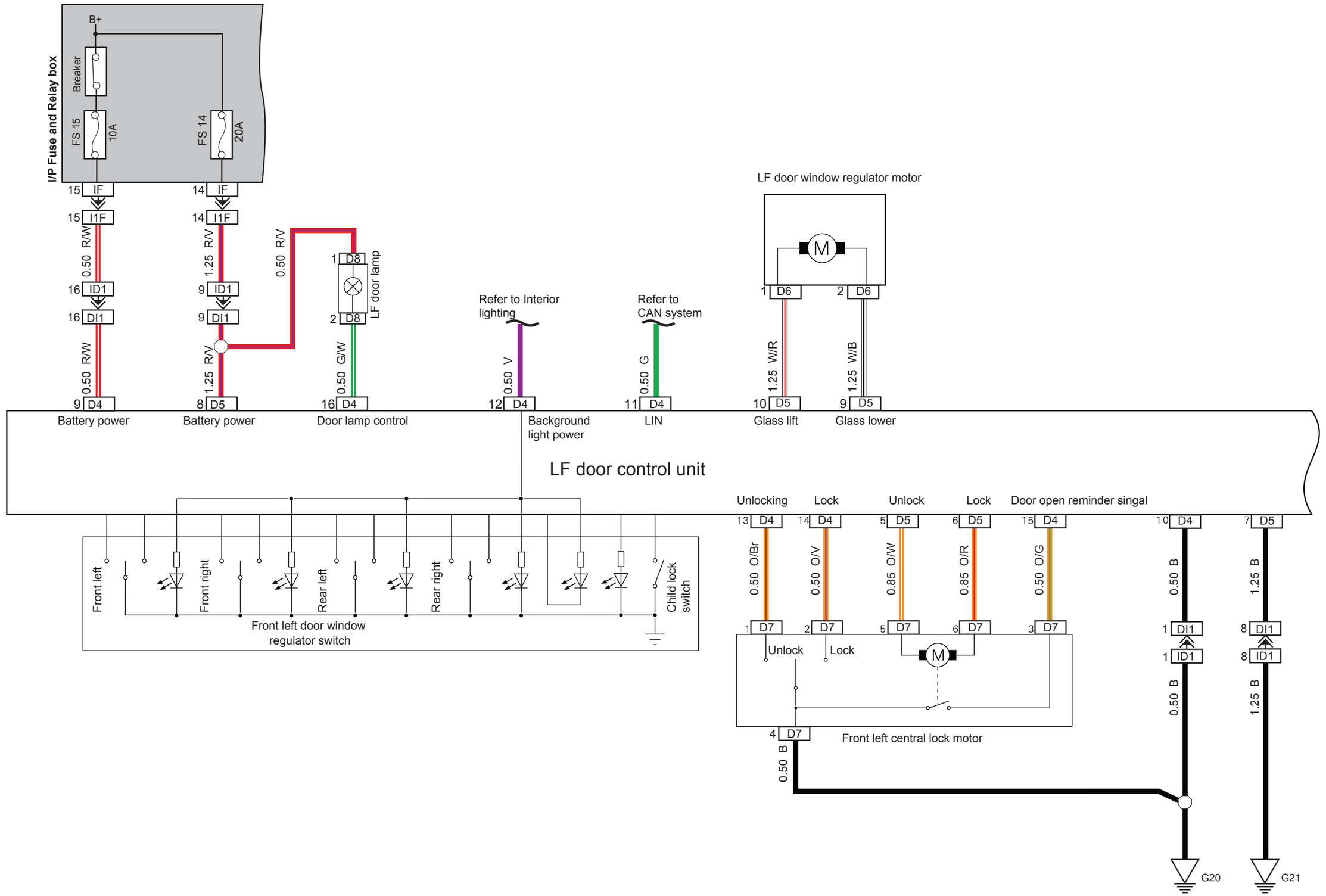
Instrument Cluster



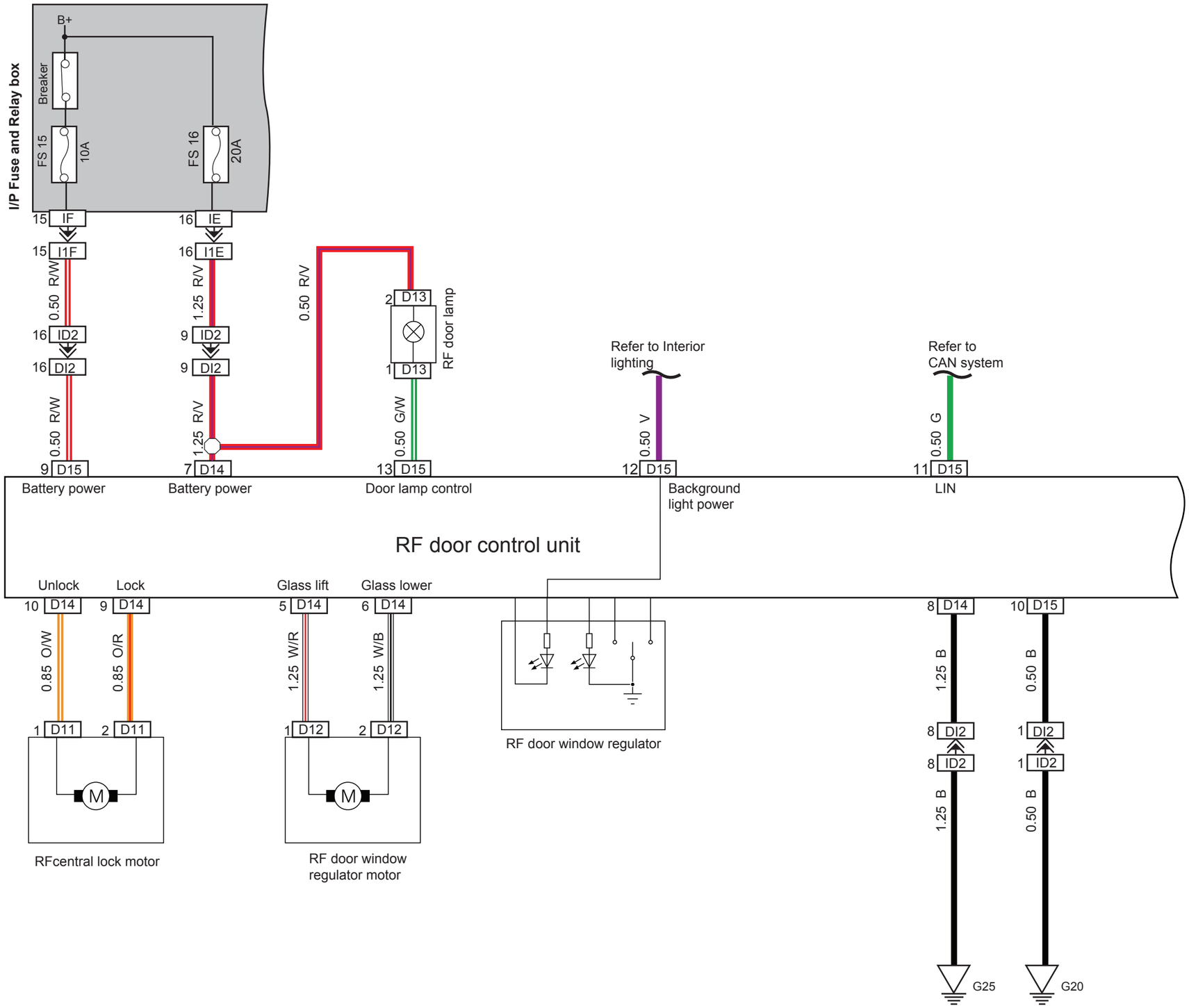
CAN System


A/C control unit
CAN-H
CAN-L
5 A5
4 A5
0.50 G/R
0.50 G/W
4 AI1
5 AI1
4 IA1
5 IA1
0.50 W
0.50 W/B
1 I16
2 I16
CAN-H
CAN-L
PEPS ECU
RBCM
CAN-H
CAN-L
8 H2
9 H2
0.50 W
0.50 W/B
1 HB1
2 HB1
1 BH1
2 BH1
0.50 W
0.50 W/B
2 BI1
3 BI1
2 IB1
3 IB1
0.50 W
0.50 W/B
7 I35
8 I35
CAN-H
CAN-L
Audio control unit
SRS ECU
CAN-H
CAN-L
45 S3
20 S3
0.50 W
0.50 W/B
1 SI1
2 SI1
1 IS1
2 IS1
DLC
CAN-H
CAN-L
6 I1
14 I1
0.50 W
0.50 W/B
27 I14
26 I14
CAN-H
CAN-L
I/C control unit
CAN-H
CAN-L
5 I14
6 I14
0.50 W
0.50 W/B
4 I18
5 I18
CAN-H
CAN-L
FBCM
LIN
3 I18
0.50 G
1 IB1
1 BI1
0.50 G
3 BD1
3 DB1
0.50 G
11 D22
LIN
LR door control unit
0.50 G
2 ID1
2 DI1
0.50 G
11 D4
LIN
LF door control unit
0.50 G
1 IR1
1 IR1
0.50 G
7 R2
LIN
Sunroof control unit
0.50 G
2 ID2
2 DI2
0.50 G
11 D15
LIN
RF door control unit
0.50 G
3 IF1
3 FI1
0.50 G
3 FD1
3 DF1
0.50 G
11 D26
LIN
RR door control unit
ECU
CAN-H
CAN-L
39 E1
38 E1
0.50 W
0.50 W/B
2 EI1
1 EI1
2 IE1
1 IE1
0.50 W
0.50 W/B
8 IU2
9 IU2
8 UI2
9 UI2
0.50 W
0.50 W/B
26 UI7
14 UI7
CAN-H
CAN-L
ABS ECU

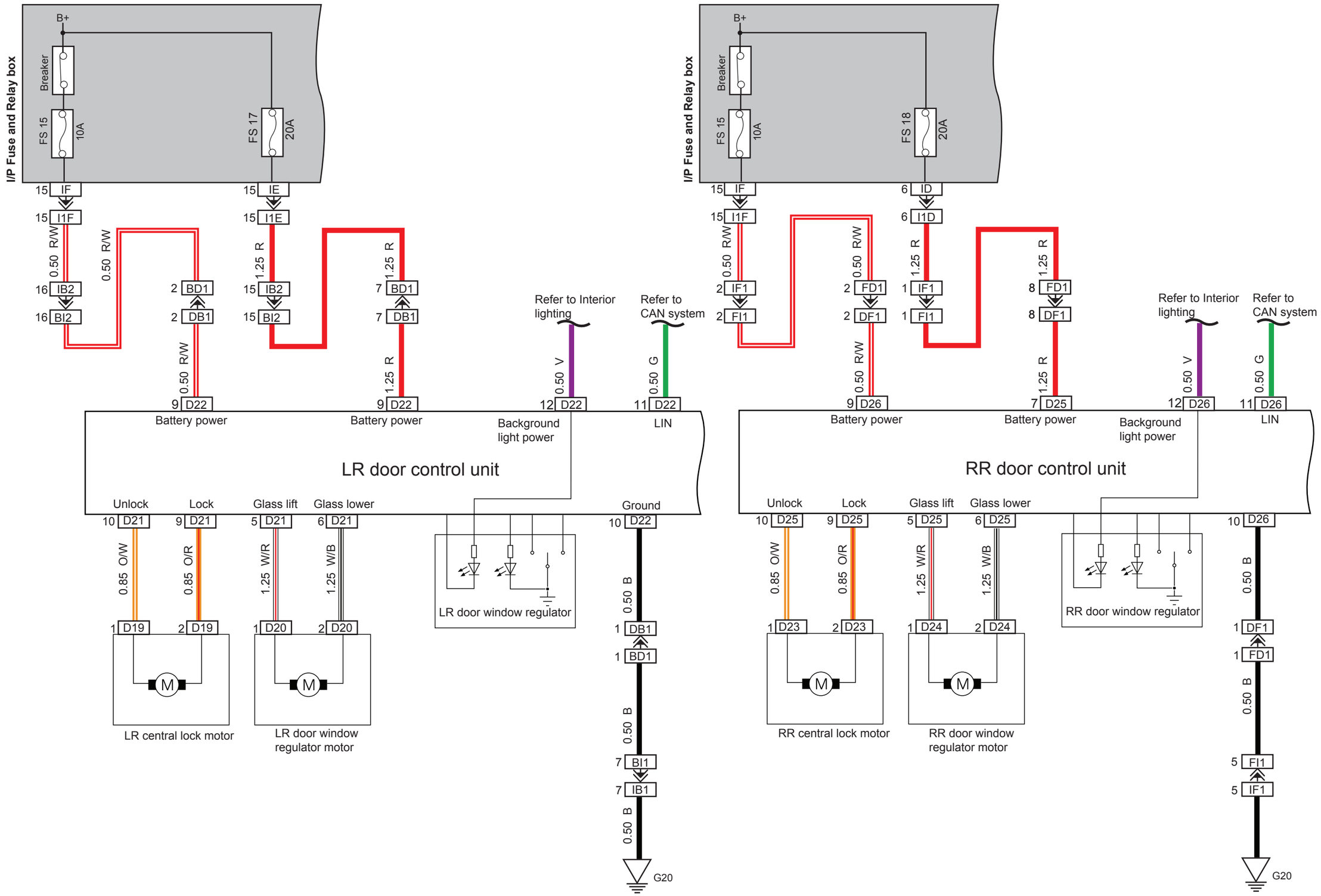
LF Door Control System



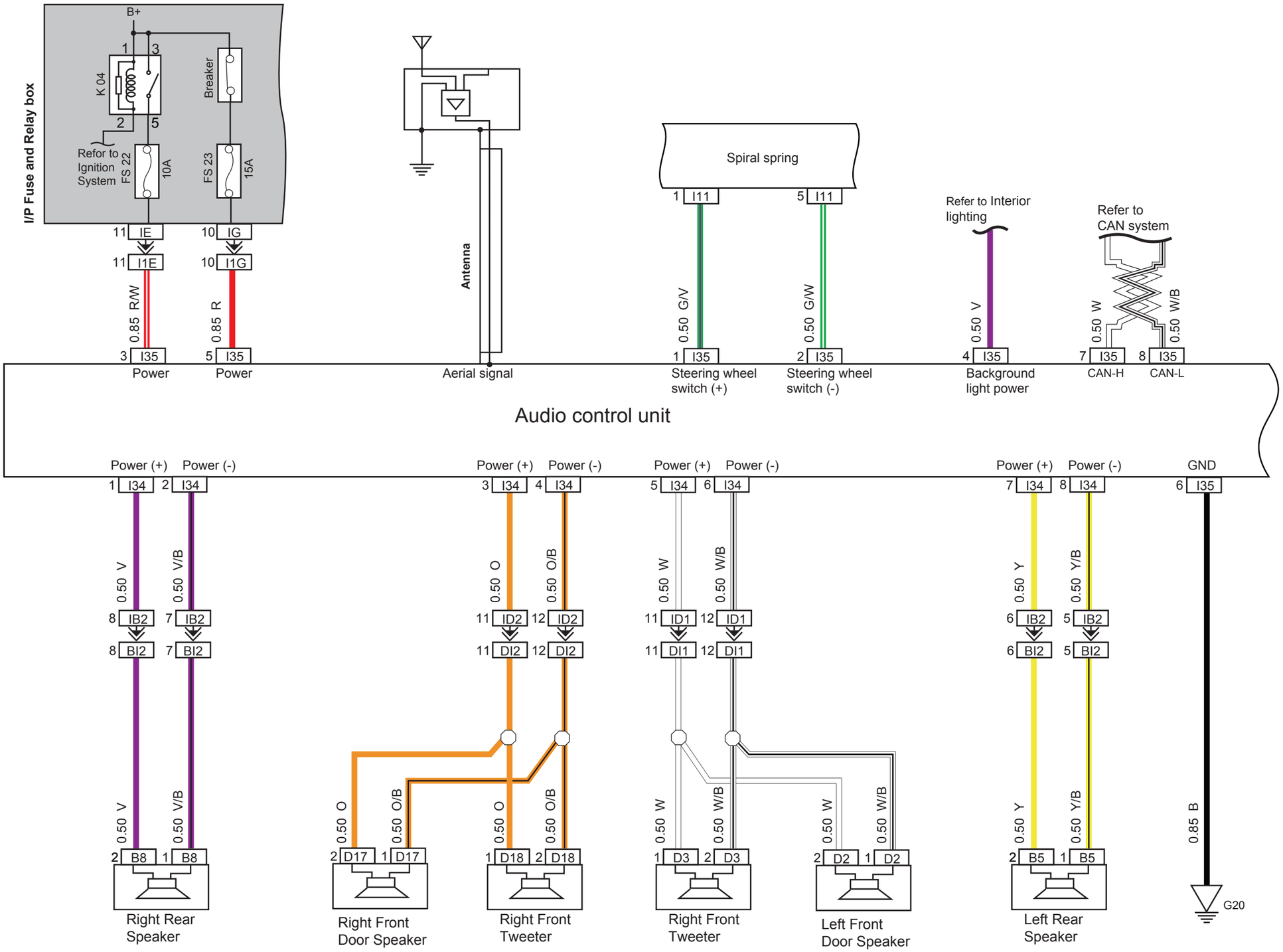
RF Door Control System



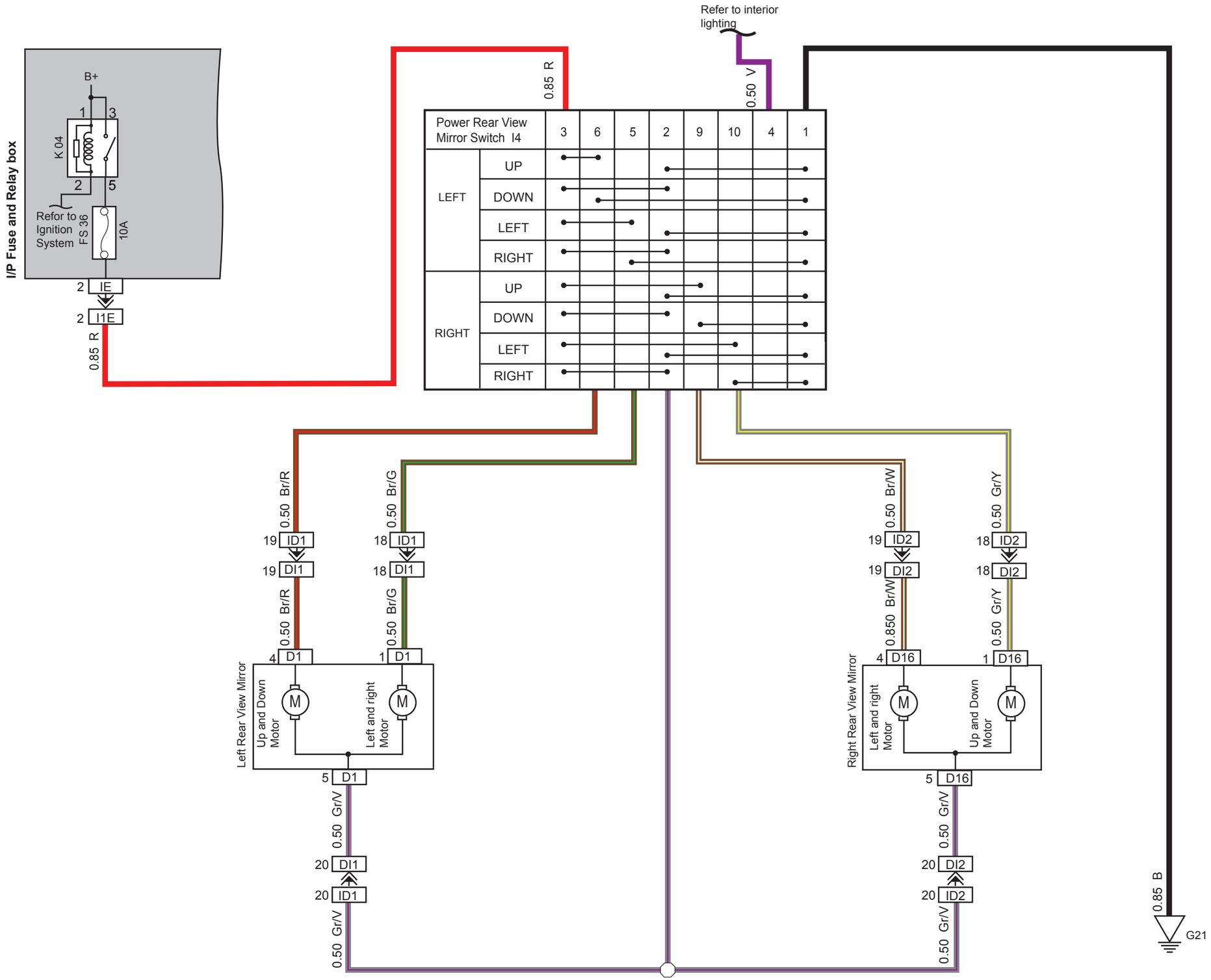
LR Door Control System and RR Door Control System



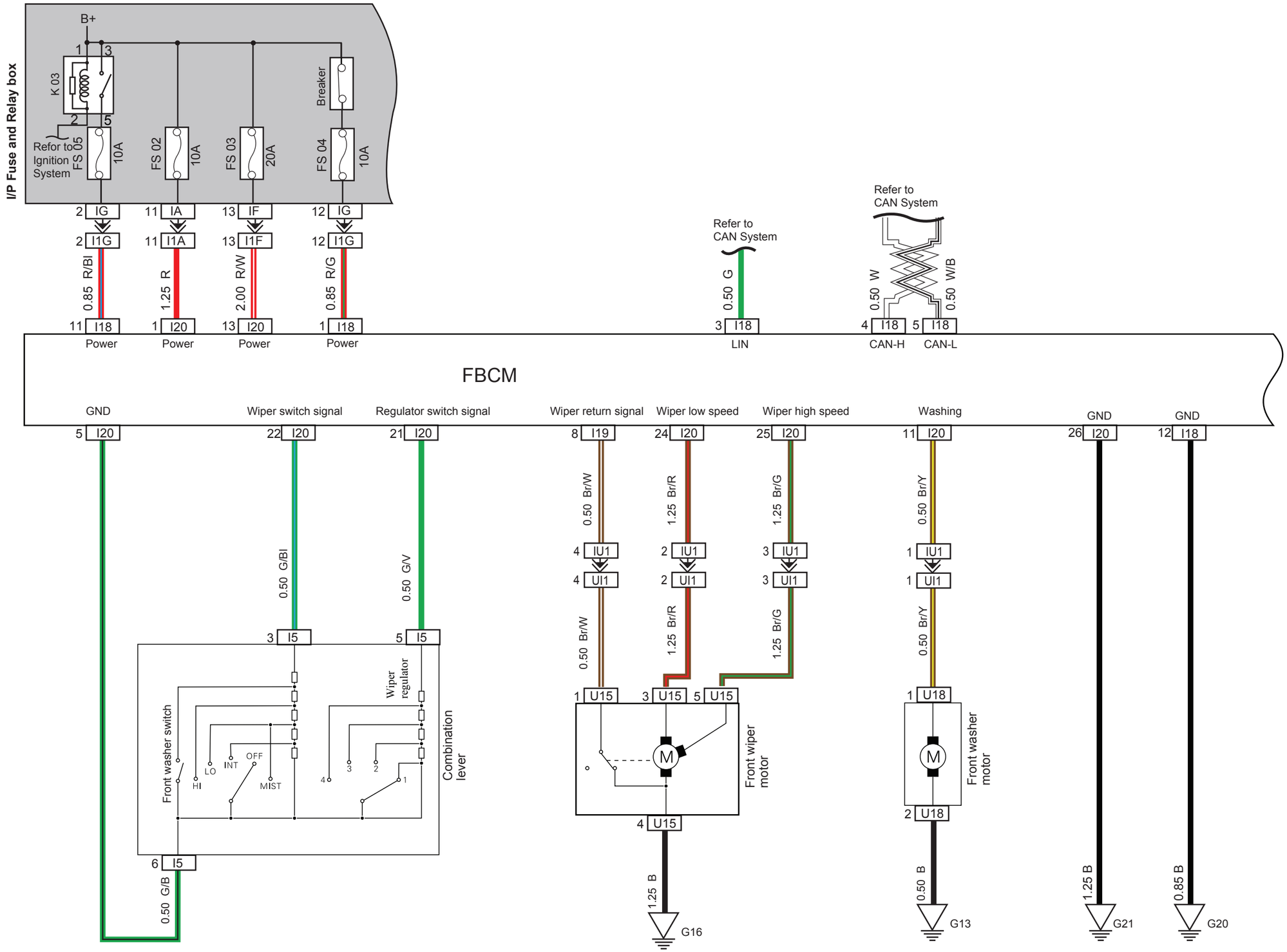
Audio System



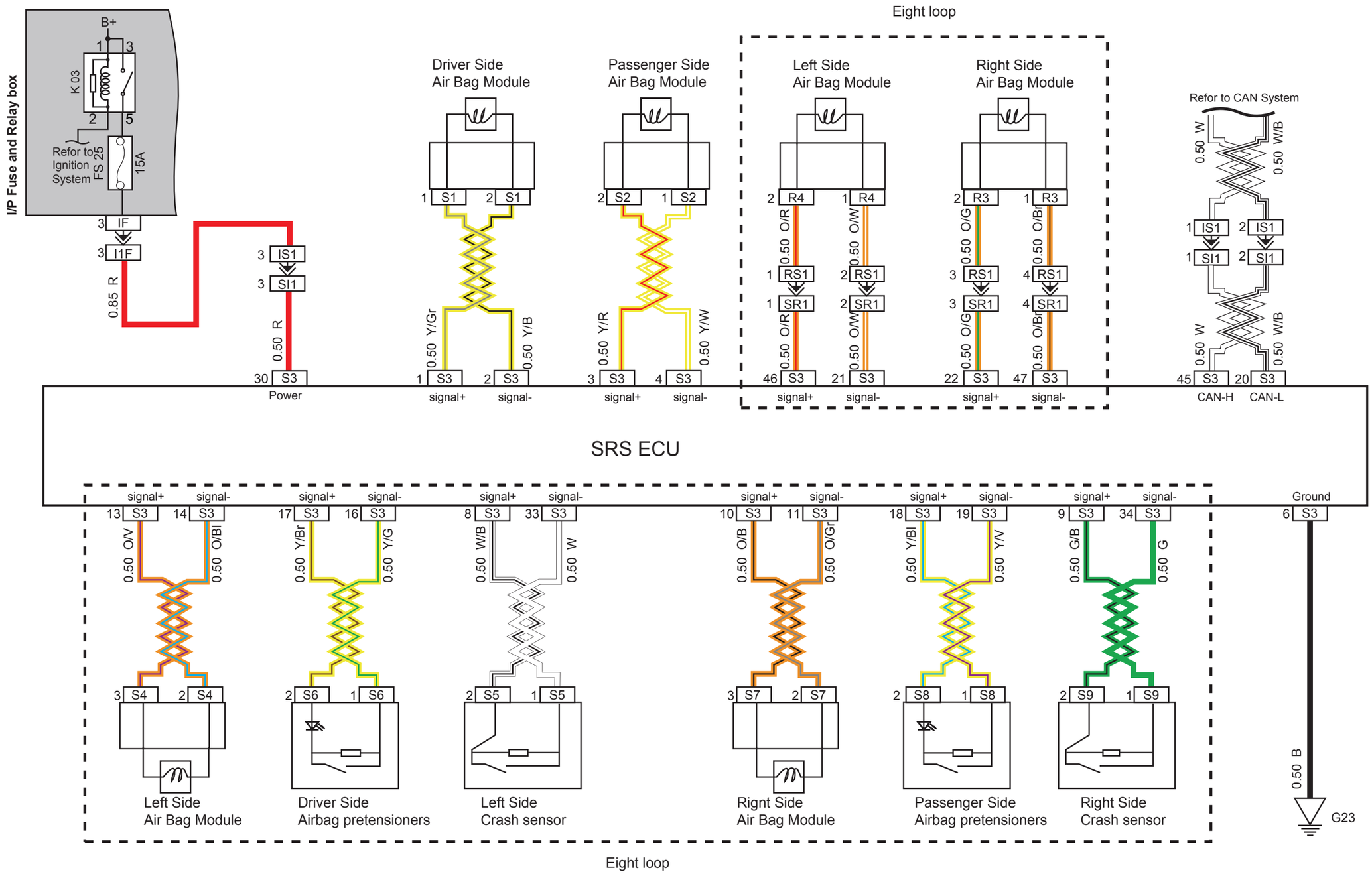
Power Rear View Mirror



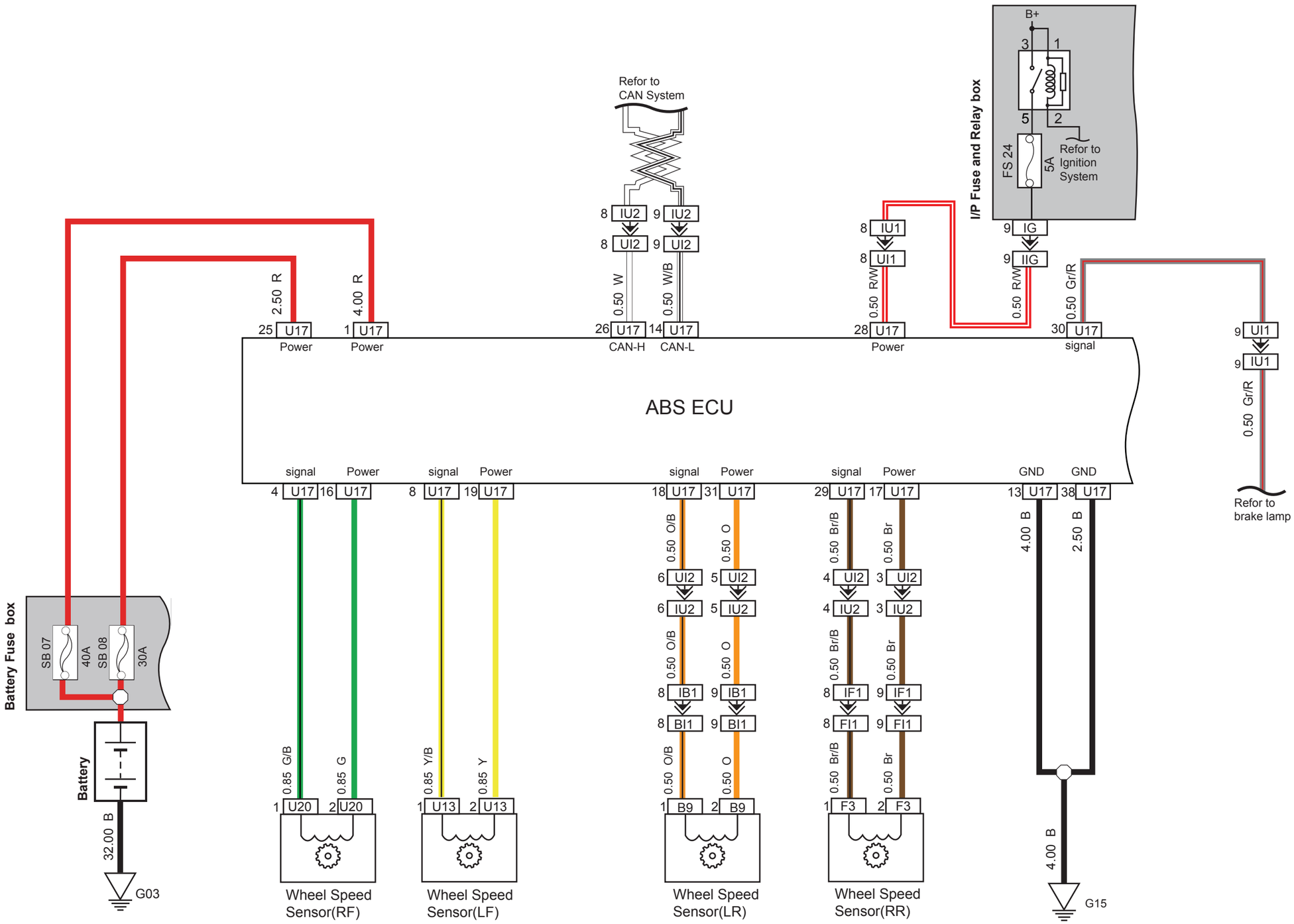
Wiper and Washer System



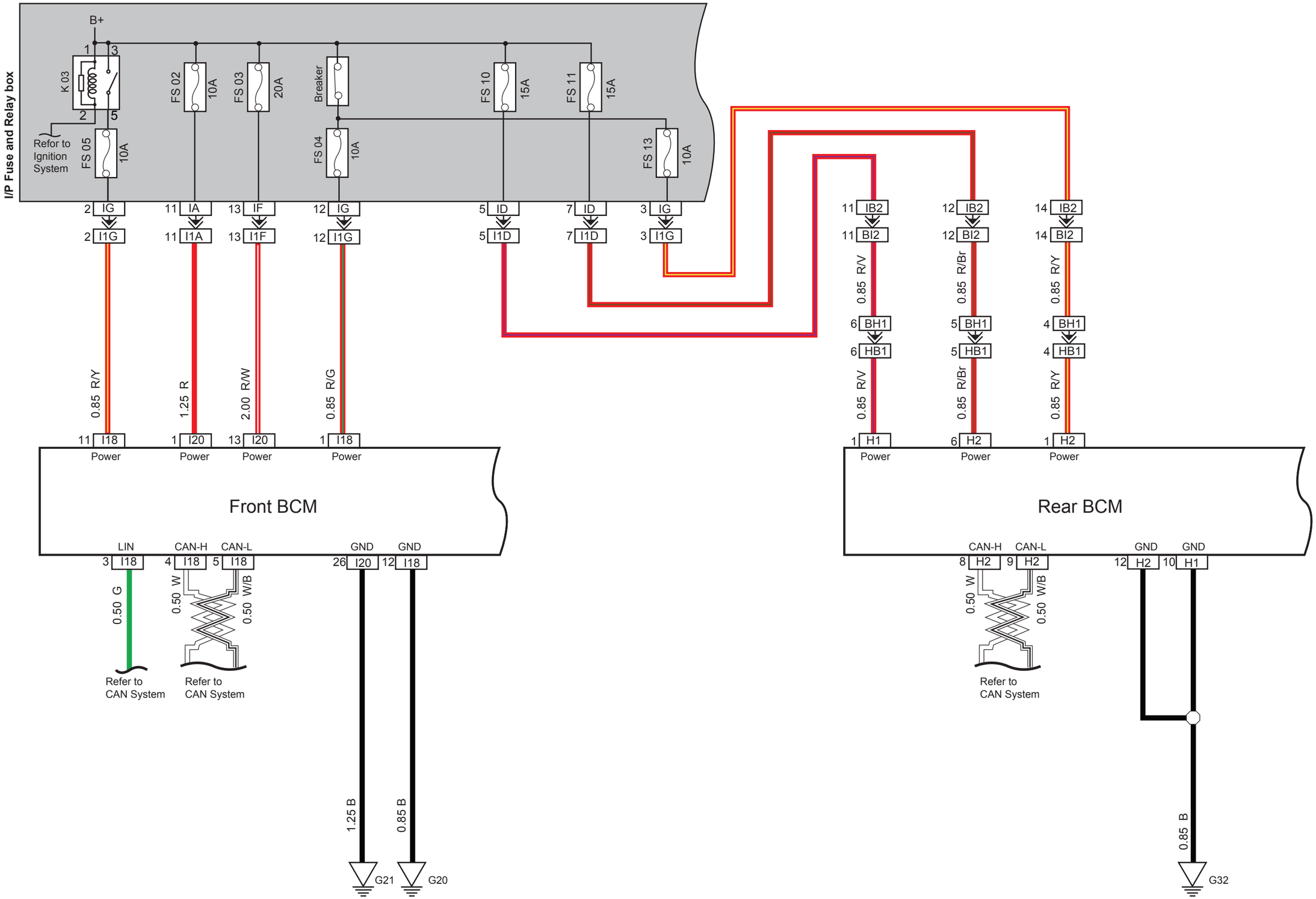
Supplemental Restraint System



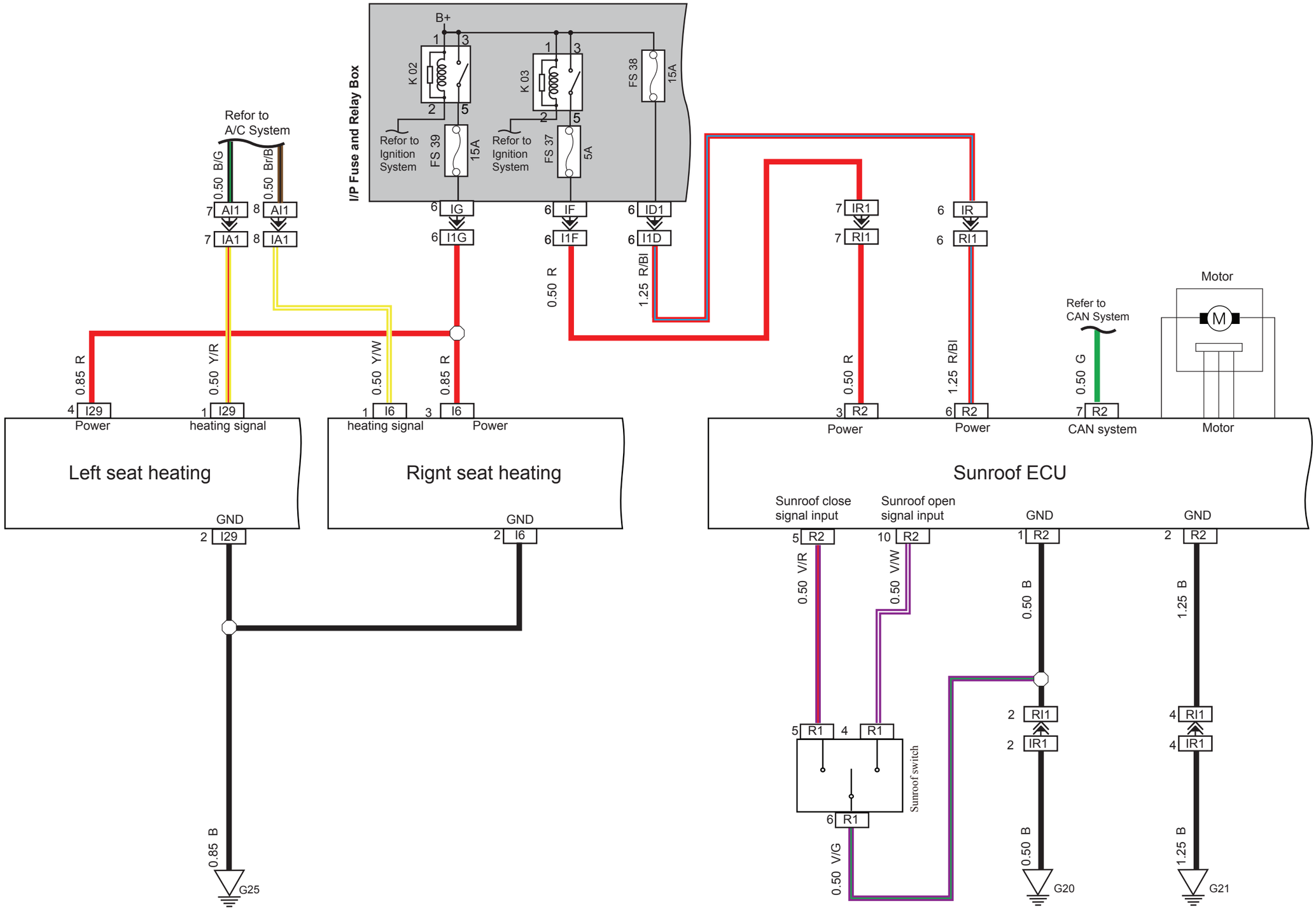
ABS System


Refor to
CAN System
B+
3
1
5
2
I/P Fuse and Relay box
FS 24
5A
Refor to
Ignition
System
8 IU2
9 IU2
8 UI2
9 UI2
0.50 W
0.50 W/B
26 U17
14 U17
CAN-H
CAN-L
8 IU1
8 UI1
0.50 R/W
28 U17
Power
9 IG
9 IIG
0.50 R/W
30 U17
signal
0.50 Gr/R
9 UI1
9 IU1
0.50 Gr/R
Refor to
brake lamp
2.50 R
4.00 R
25 U17
Power
1 U17
Power
ABS ECU
signal
Power
signal
Power
signal
Power
signal
Power
GND
GND
4 U17
16 U17
8 U17
19 U17
18 U17
31 U17
29 U17
17 U17
13 U17
38 U17
0.50 O/B
0.50 O
0.50 Br/B
0.50 Br
4.00 B
2.50 B
6 UI2
5 UI2
4 UI2
3 UI2
6 IU2
5 IU2
4 IU2
3 IU2
0.50 O/B
0.50 O
0.50 Br/B
0.50 Br
8 IB1
9 IB1
8 IF1
9 IF1
8 BI1
9 BI1
8 FI1
9 FI1
0.50 O/B
0.50 O
0.50 Br/B
0.50 Br
1 B9
2 B9
1 F3
2 F3
Battery Fuse box
SB 07
40A
SB 08
30A
Battery
32.00 B
G03
0.85 G/B
0.85 G
1 U20
2 U20
Wheel Speed
Sensor(RF)
0.85 Y/B
0.85 Y
1 U13
2 U13
Wheel Speed
Sensor(LF)
Wheel Speed
Sensor(LR)
Wheel Speed
Sensor(RR)
4.00 B
4.00 B
G15

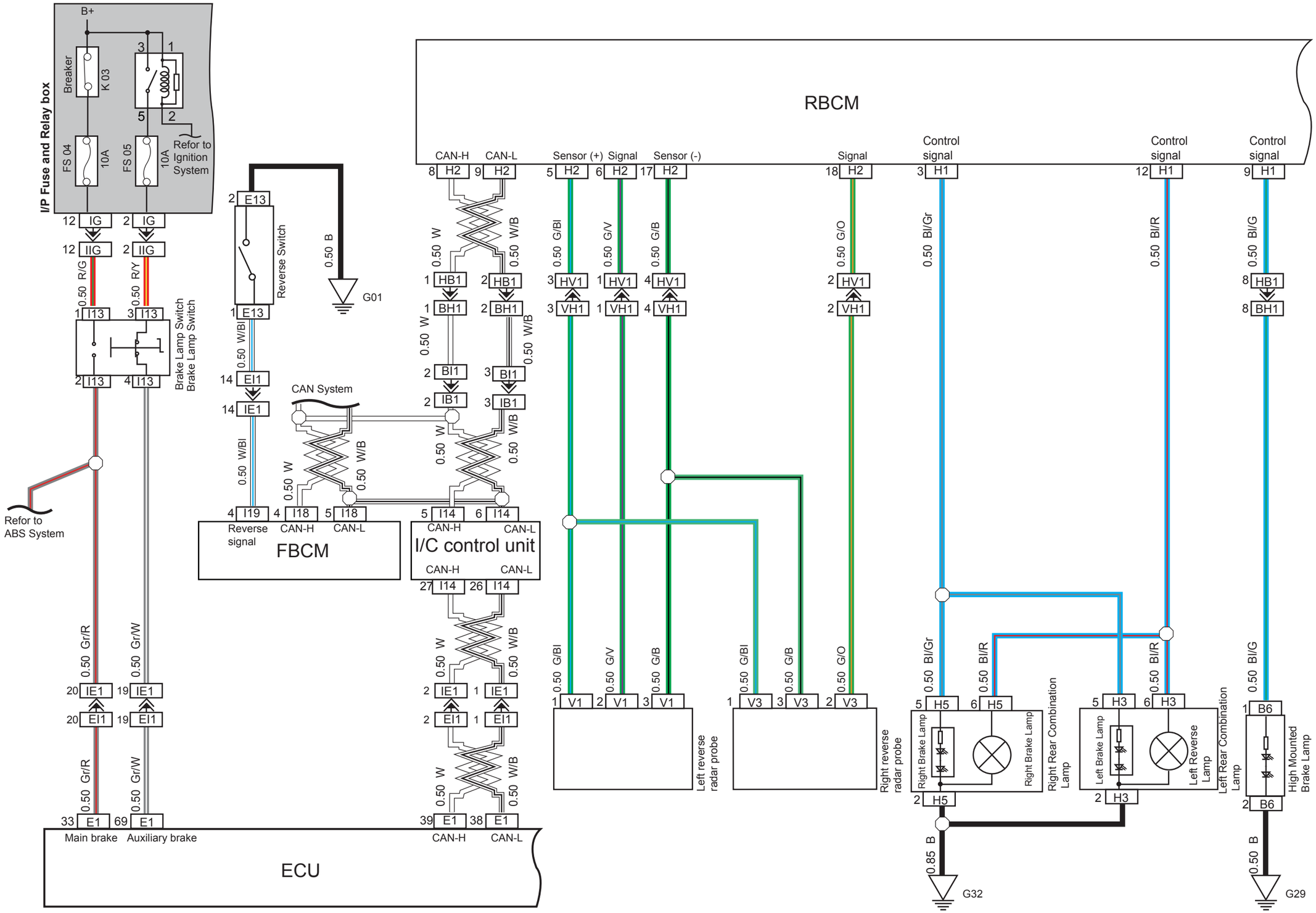
BCM System


I/P Fuse and Relay box
B+
K 03
1
3
2
5
Refor to Ignition System
FS 05 10A
FS 02 10A
FS 03 20A
Breaker
FS 04 10A
FS 10 15A
FS 11 15A
FS 13 10A
2 IG
2 I1G
11 IA
11 I1A
13 IF
13 I1F
12 IG
12 I1G
5 ID
5 I1D
7 ID
7 I1D
3 IG
3 I1G
0.85 R/Y
1.25 R
2.00 R/W
0.85 R/G
11 I18
1 I20
13 I20
1 I18
Power
Front BCM
LIN
CAN-H
CAN-L
GND
GND
3 I18
4 I18
5 I18
26 I20
12 I18
0.50 G
0.50 W
0.50 W/B
Refer to CAN System
Refer to CAN System
1.25 B
0.85 B
G21
G20
11 IB2
12 IB2
14 IB2
11 BI2
12 BI2
14 BI2
0.85 R/V
0.85 R/Br
0.85 R/Y
6 BH1
5 BH1
4 BH1
6 HB1
5 HB1
4 HB1
0.85 R/V
0.85 R/Br
0.85 R/Y
1 H1
6 H2
1 H2
Power
Rear BCM
CAN-H
CAN-L
GND
GND
8 H2
9 H2
12 H2
10 H1
0.50 W
0.50 W/B
Refer to CAN System
0.85 B
G32

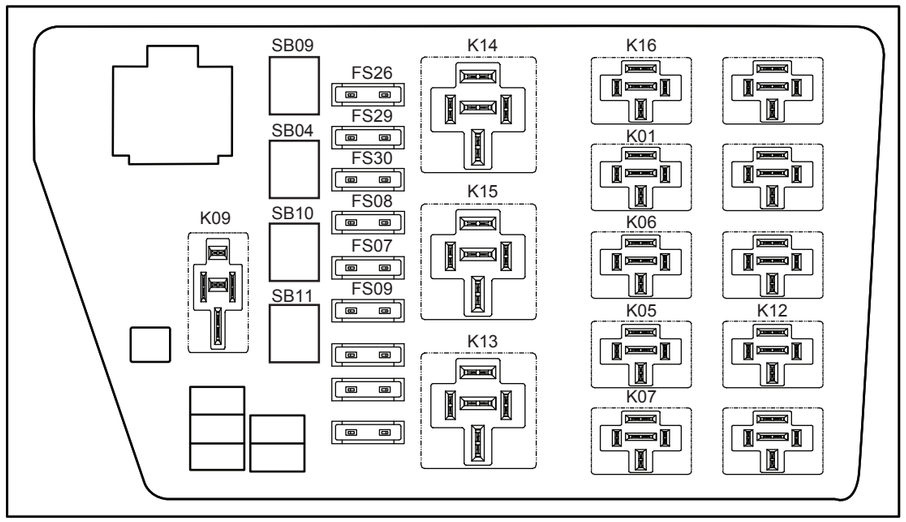
Sunroof System and Seat Heating



Brake Lamp / Reverse Lamp / Reverse Redar



Engine Compartment Fuse and Relay Box



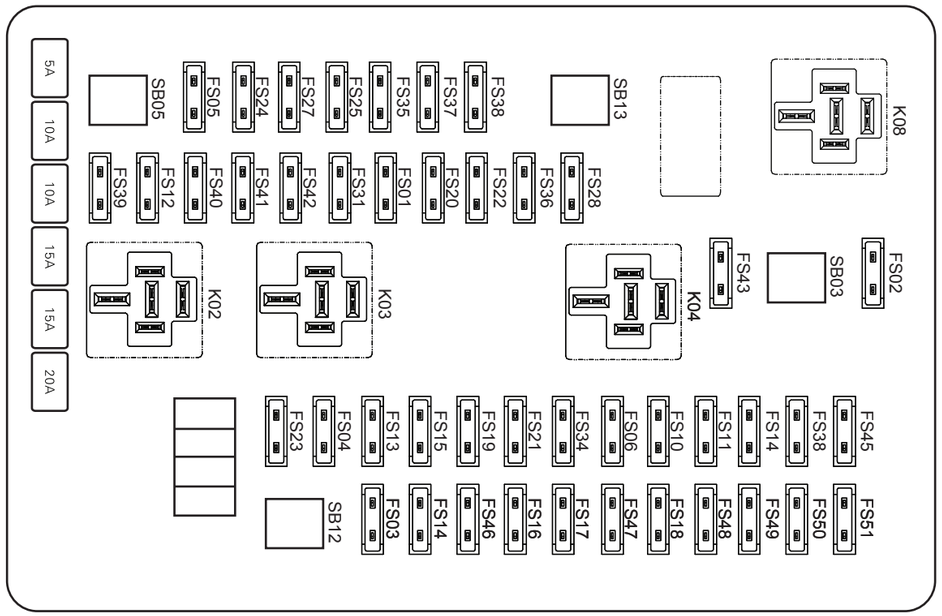
Relay

Code	Application	Description
K01	Starter Relay	
K05	High-beam Relay	
K06	Front fog lamp Relay	
K07	Low-beam Relay	
K09	Main Relay	
K11	Fuel Pump Relay	
K11	A/C Compressor Relay	
K13	Fan Control Relay	
K14	Condensor Relay	
K15	Radiator Relay	
K16	Horn Relay	

Fuse

Code	Application	Rated Current (A)	Description
FS07	High-beam Fuse	15A	
FS08	Front fog lamp Fuse	15A	
FS09	Low-beam Fuse	15A	
FS26	ECU Fuse	15A	
FS29	Fuel Pump Fuse	15A	
FS30	A/C Compressor	10A	
FS32	Horn Fuse	15A	
SB04	Starting Relay Fuse	20A	
SB09	Main Relay Fuse	25A	
SB10	Condensor Fuse	25A	
SB11	Radiator Fuse	25A	

I/P Fuse and Relay Box



Relay

Code	Application	Description
K02	IG2 Relay	
K03	IG1 Relay	
K04	ACC Relay	
K08	Rear Defroster Relay	

Fuse

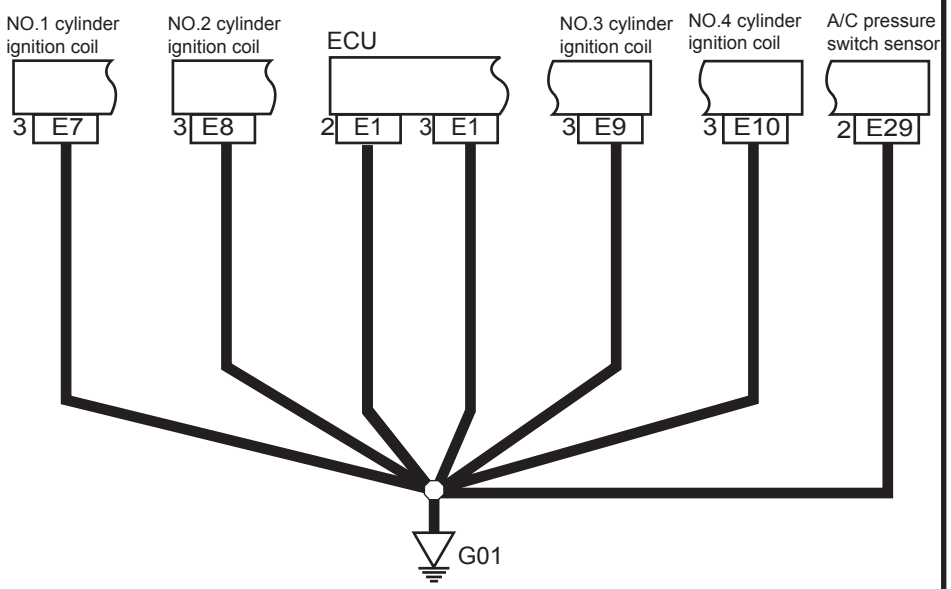
Code	Application	Rated Current (A)	Description
FS01	Generator fuse	10A	
FS02	Width lamp/turn signal fuse	10A	
FS03	Wiper and washer fuse	20A	
FS04	FBCM fuse	10A	
FS05	FBCM fuse	10A	
FS06	Ceiling lamp fuse	10A	
FS10	Tail lamp fuse	15A	
FS11	Tail lamp fuse	15A	
FS12		15A	Reserved
FS13	RBCM fuse	10A	
FS14	Ront left door control until fuse/step lamp fuse	20A	
FS15	Door control until fuse	10A	
FS16	Ront right door control until fuse/step lamp fuse	20A	
FS17	Rear left door control until fuse	25A	
FS18	Rear right door control until fuse	20A	
FS19	PEPS fuse	10A	
FS20	A/C fuse	5A	
FS21	A/C fuse	10A	
FS22	Audio fuse	10A	
FS23	Audio fuse	15A	
FS24	ABS fuse	5A	
FS25	SRS fuse	15A	
FS27	ECU fuse	25A	
FS28		10A	Reserved
FS31	IG1 fuse	5A	
FS33	Cigarette lighter fuse	15A	
FS34	Dashbody fuse	5A	
FS35	Instument cluster fuse	10A	
FS36	Power mirror fuse	10A	
FS37	Sunroof fuse	5A	
FS38	Sunroof fuse	15A	
FS39	Seat heating fuse	15A	
FS40	CVT fuse	10A	
FS41	EPS fuse	10A	
FS42	AFS fuse	10A	

Fuse and Relay

Fuse

Code	Application	Rated Current (A)	Description
FS43		10A	Reserved
FS44		15A	Reserved
FS45		15A	Reserved
FS46		10A	Reserved
FS47		20A	Reserved
FS48		20A	Reserved
FS49		15A	Reserved
FS50		10A	Reserved
FS51		10A	Reserved
FS03	Rear deforster fuse	30A	
FS05	Blower fuse	30A	
FS12	External power interface fuse	20A	
FS13	Seat adjustment fuse	20A	

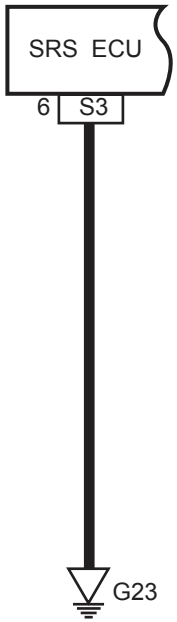
G01


NO.1 cylinder ignition coil
NO.2 cylinder ignition coil
ECU
NO.3 cylinder ignition coil
NO.4 cylinder ignition coil
A/C pressure switch sensor
3 E7
3 E8
2 E1
3 E1
3 E9
3 E10
2 E29
G01

G03

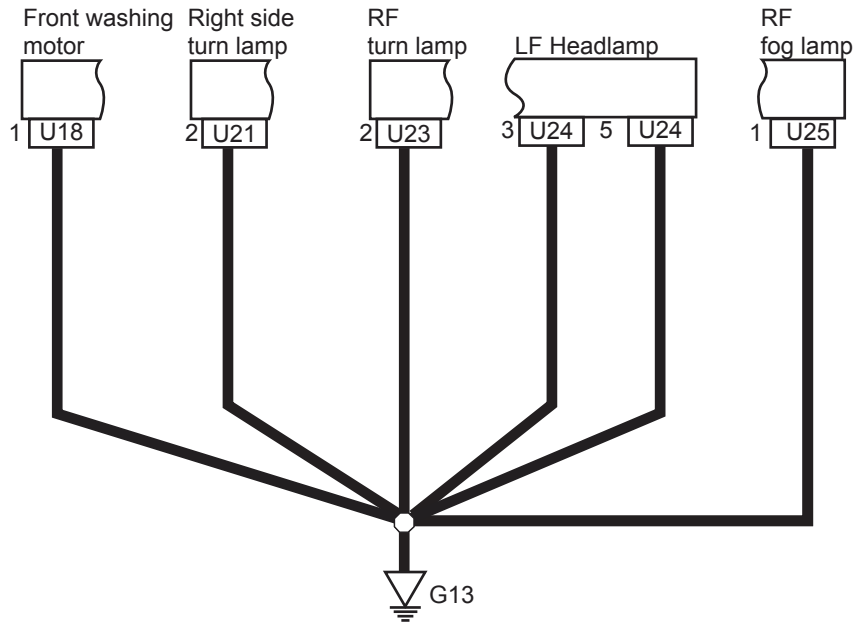

Battery
G03

G23

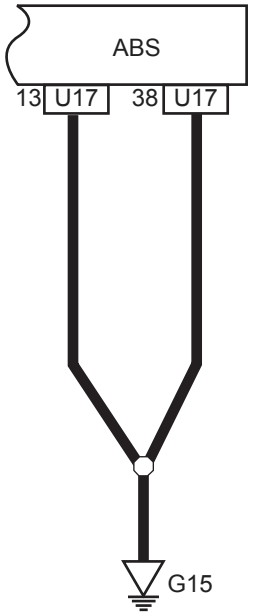

SRS ECU
6 S3
G23

Ground Distribution

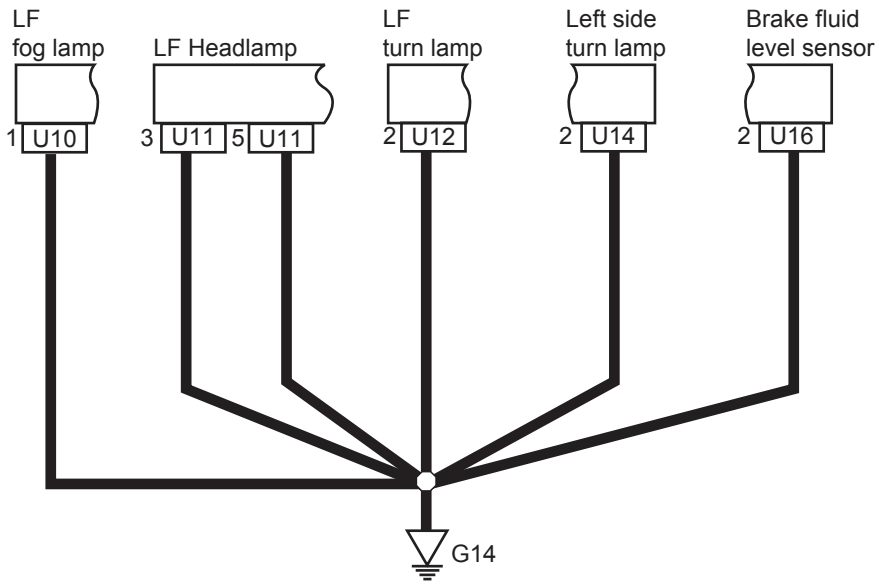
G13



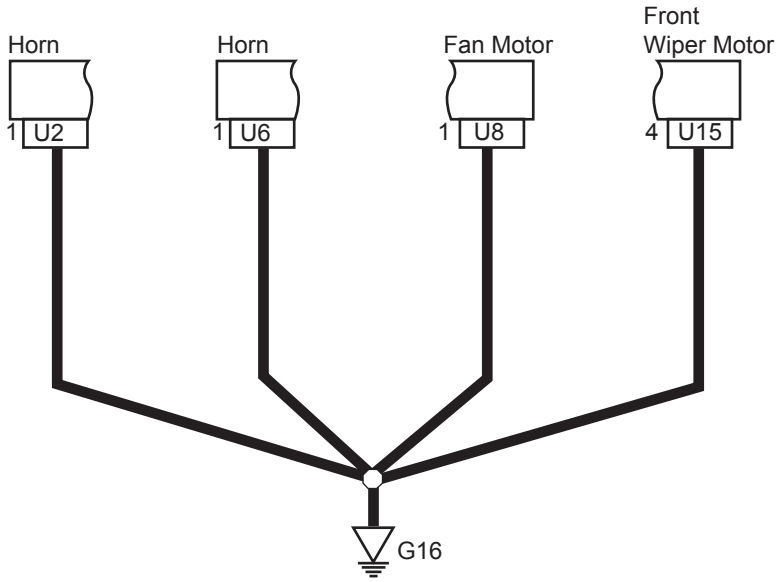
G15

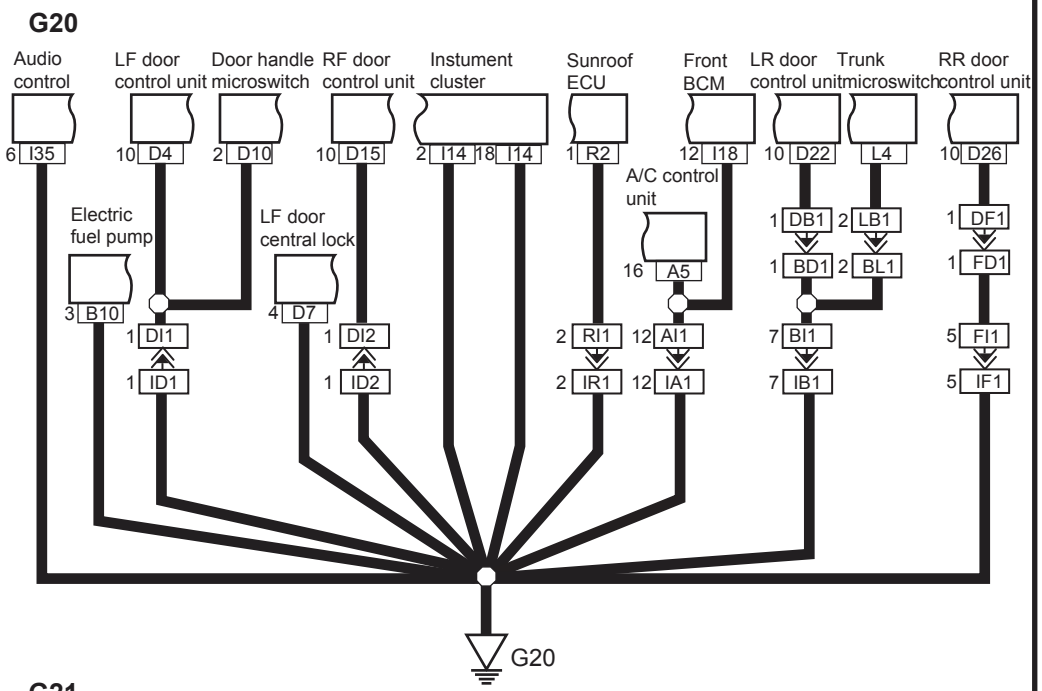


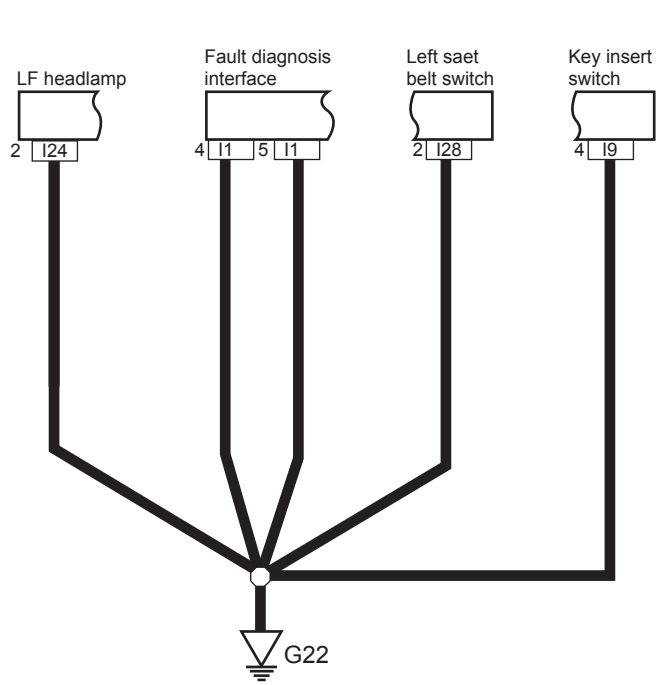
G14

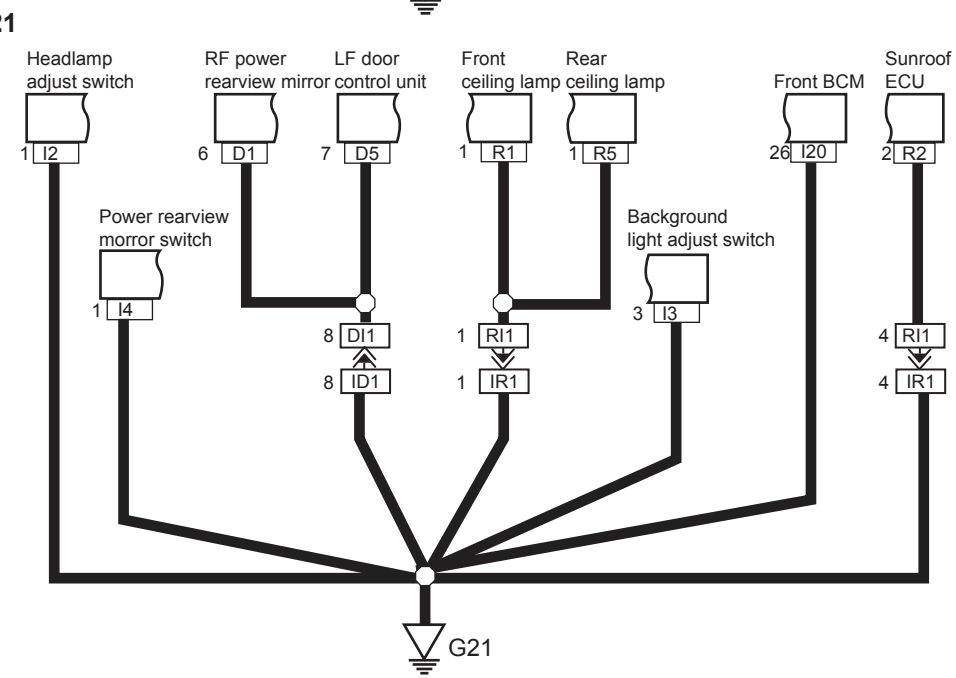


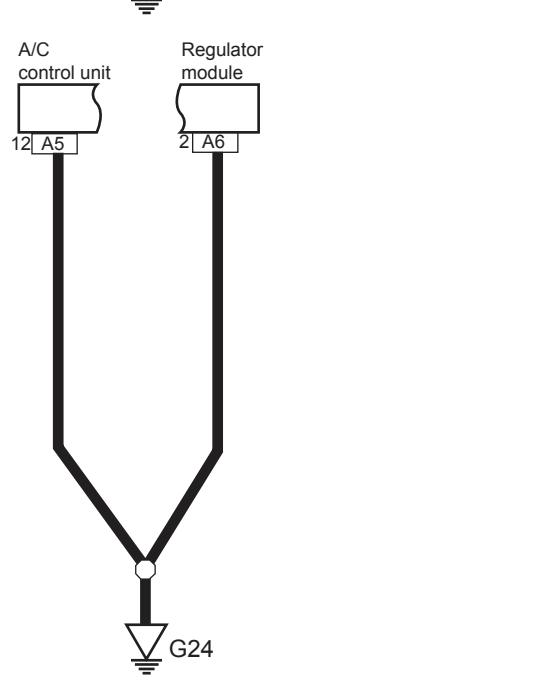
G16



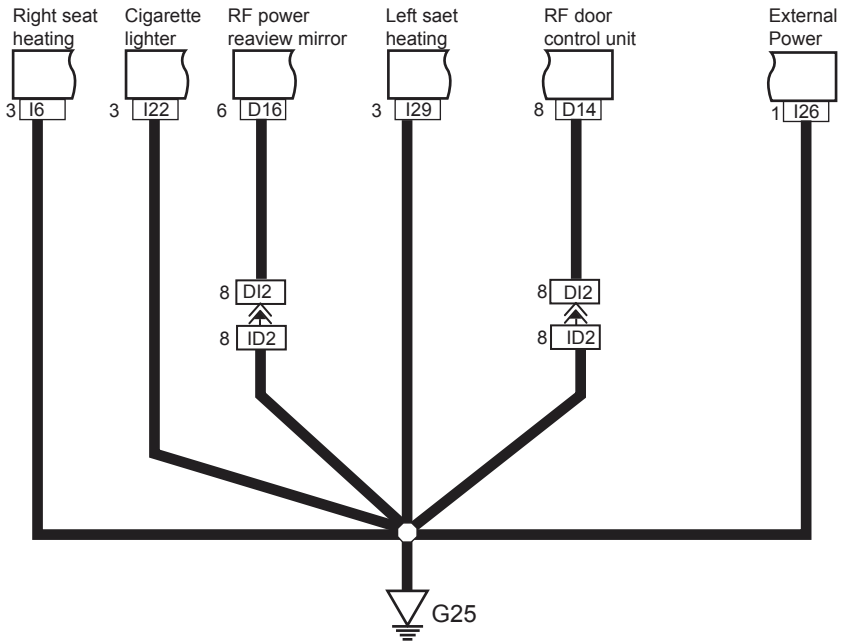

G20
Audio control
LF door control unit
Door handle microswitch
RF door control unit
Instument cluster
Sunroof ECU
Front BCM
LR door control unit
Trunk microswitch
RR door control unit
6 I35
10 D4
2 D10
10 D15
2 I14 18 I14
1 R2
12 I18
10 D22
L4
10 D26
Electric fuel pump
LF door central lock
A/C control unit
3 B10
4 D7
16 A5
1 DI1
1 ID1
1 DI2
1 ID2
2 RI1
2 IR1
12 AI1
12 IA1
1 DB1
2 LB1
1 BD1
2 BL1
7 BI1
7 IB1
1 DF1
1 FD1
5 FI1
5 IF1
G20


G22
LF headlamp
Fault diagnosis interface
Left saet belt switch
Key insert switch
2 I24
4 I1 5 I1
2 I28
4 I9
G22

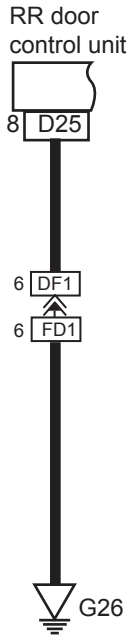

G21
Headlamp adjust switch
RF power rearview mirror
LF door control unit
Front ceiling lamp
Rear ceiling lamp
Front BCM
Sunroof ECU
1 I2
6 D1
7 D5
1 R1
1 R5
26 I20
2 R2
Power rearview morror switch
Background light adjust switch
1 I4
8 DI1
8 ID1
1 RI1
1 IR1
3 I3
4 RI1
4 IR1
G21


G24
A/C control unit
Regulator module
12 A5
2 A6
G24

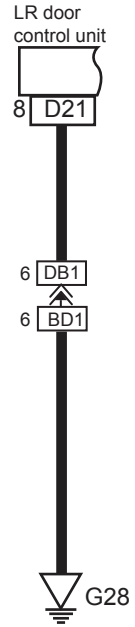
G25



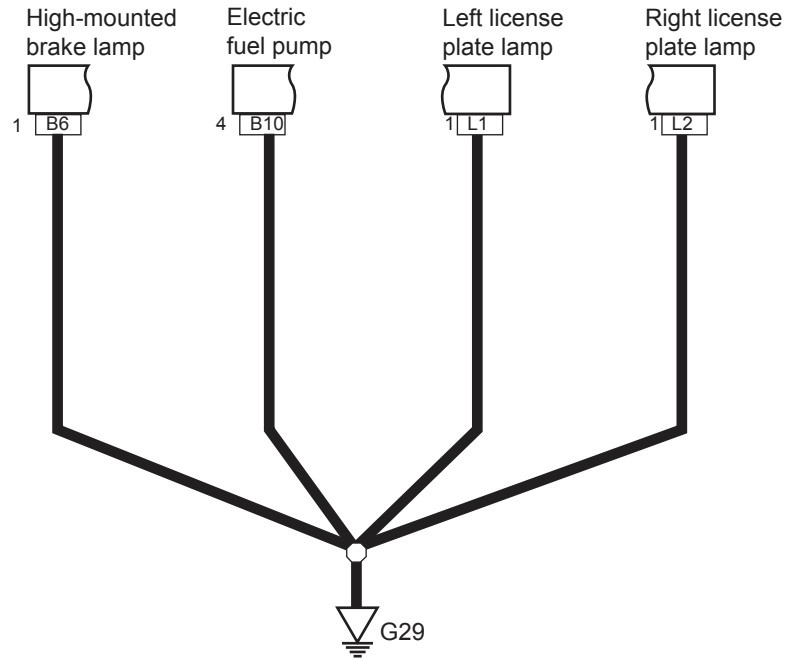
G26



G28



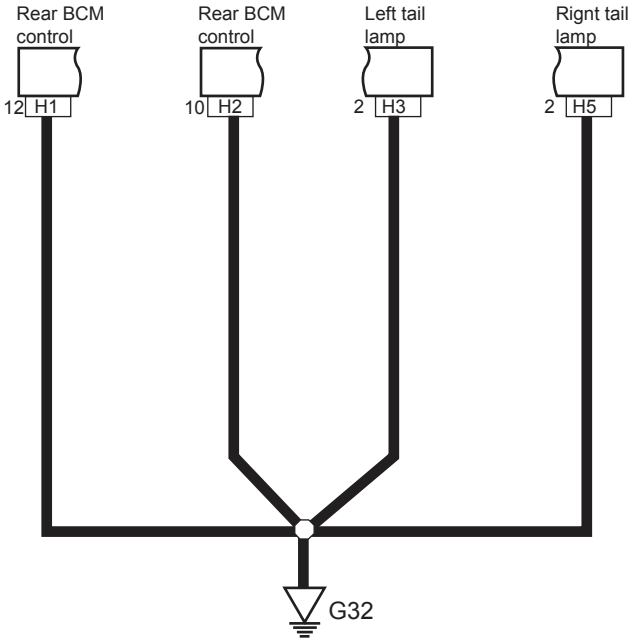
G29



G31

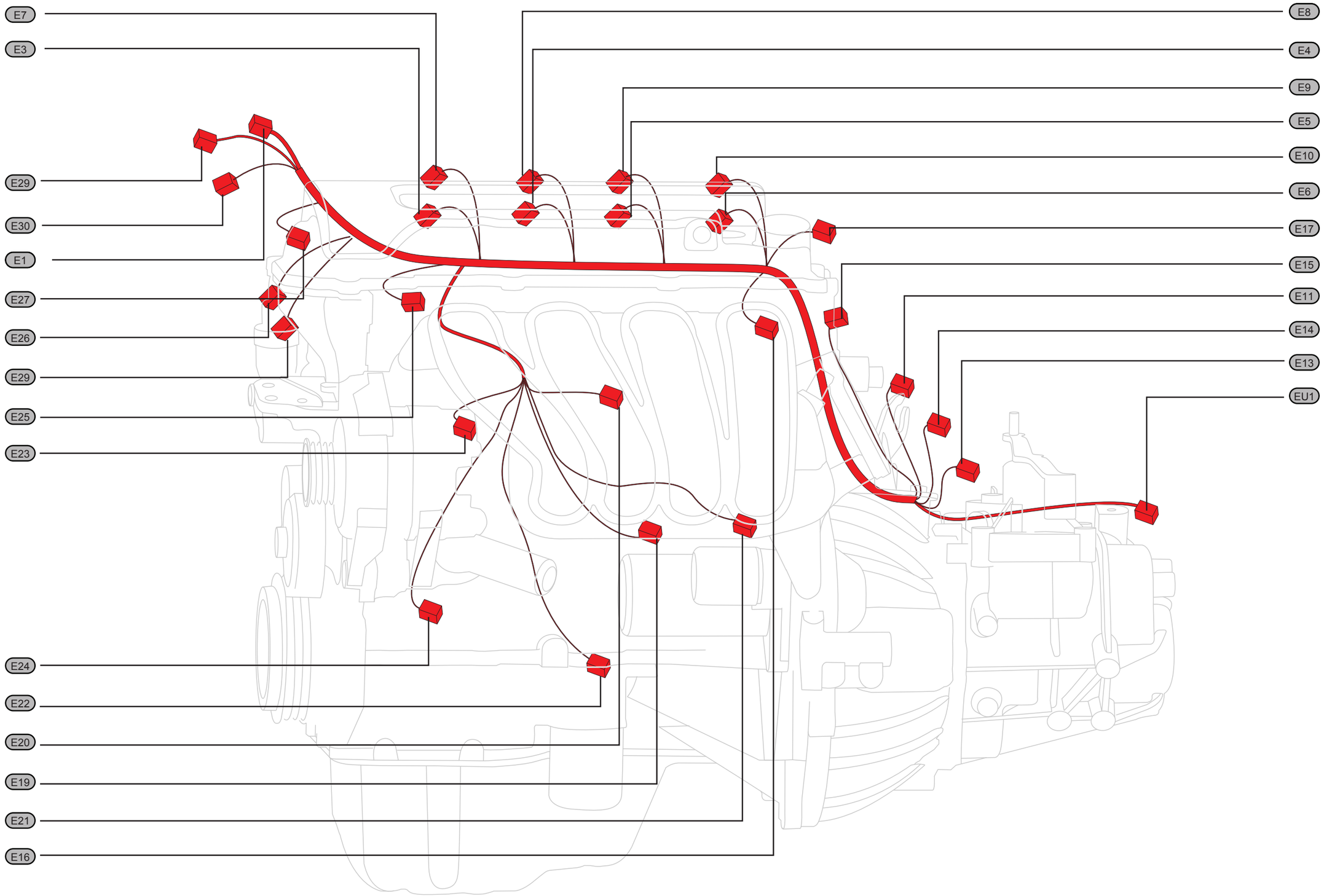

LR door
control unit
1
B12
G31

G32


Rear BCM
control
12
H1
Rear BCM
control
10
H2
Left tail
lamp
2
H3
Rignt tail
lamp
2
H5
G32

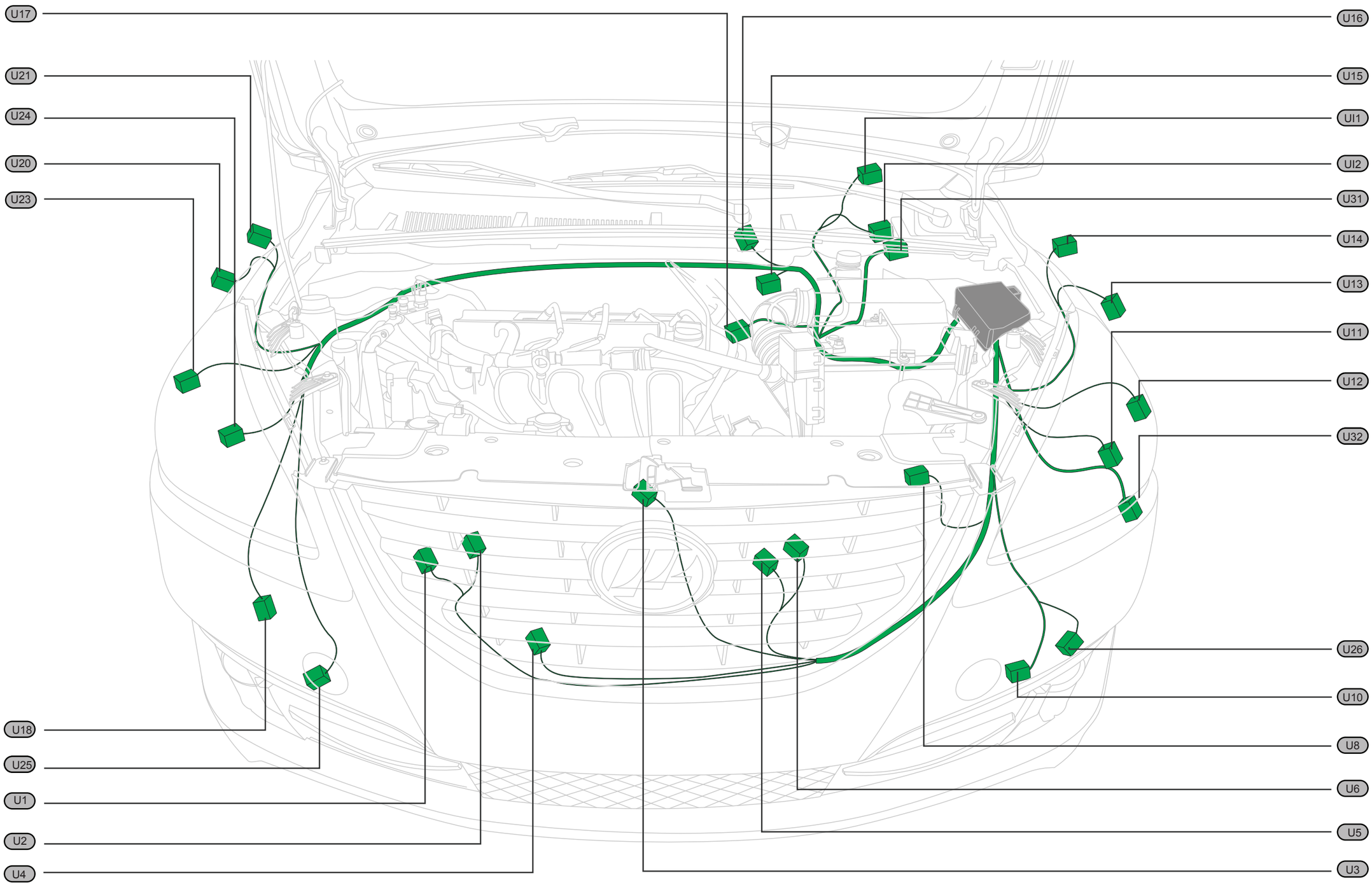
Harness Connector View

Engine Harness Connector Location View

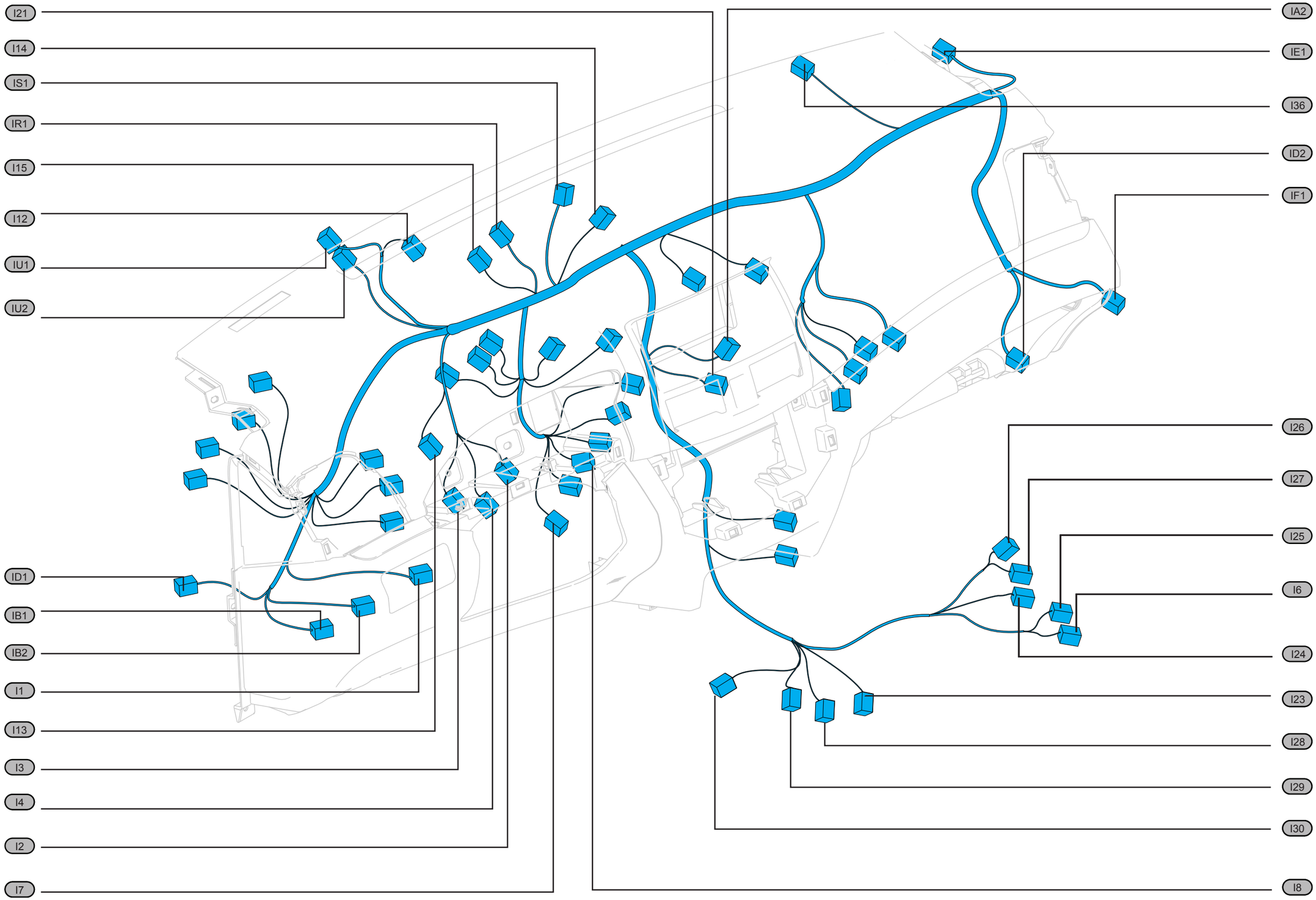


Harness Connector Location View

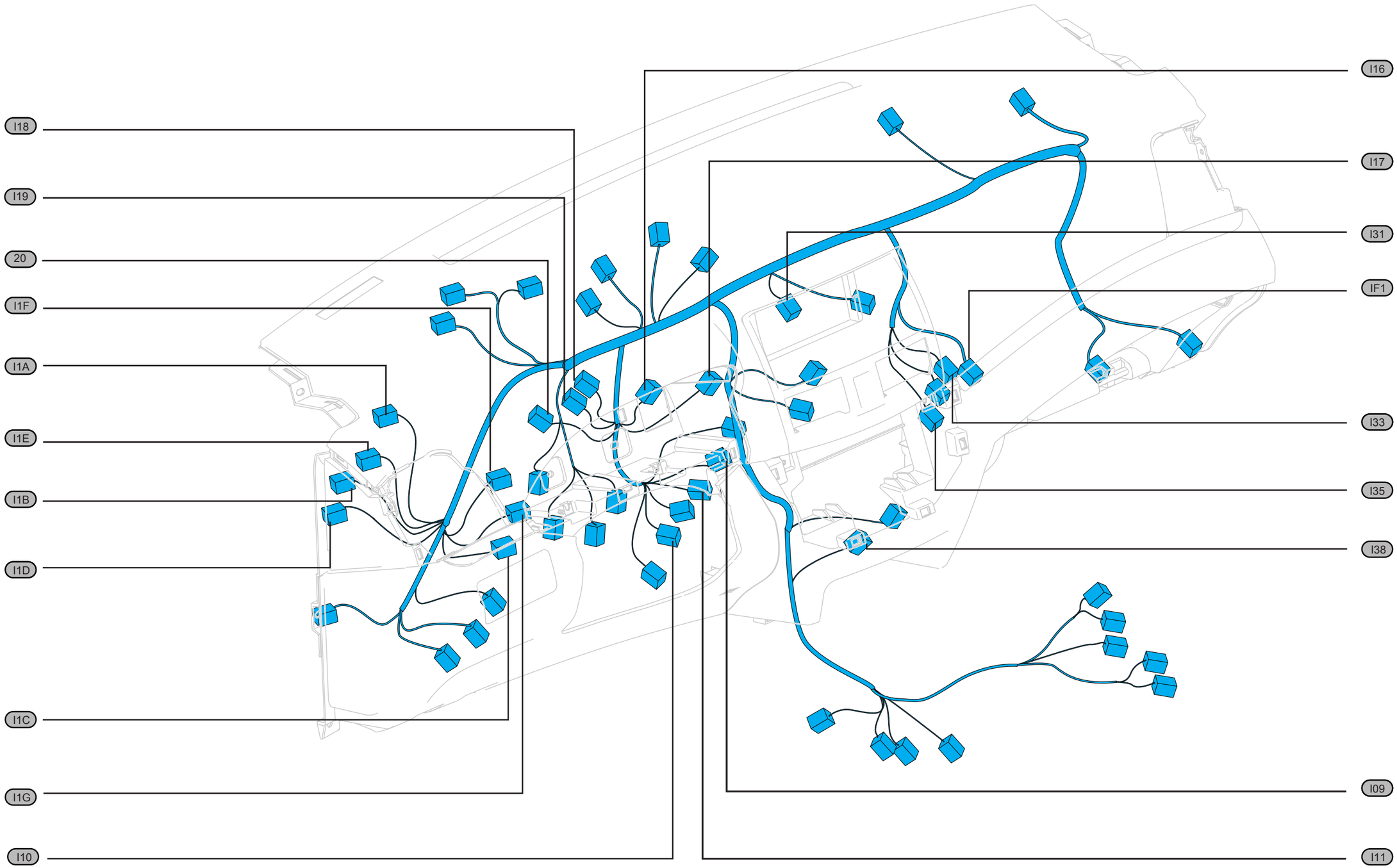
I/P Harness Connector Location View A



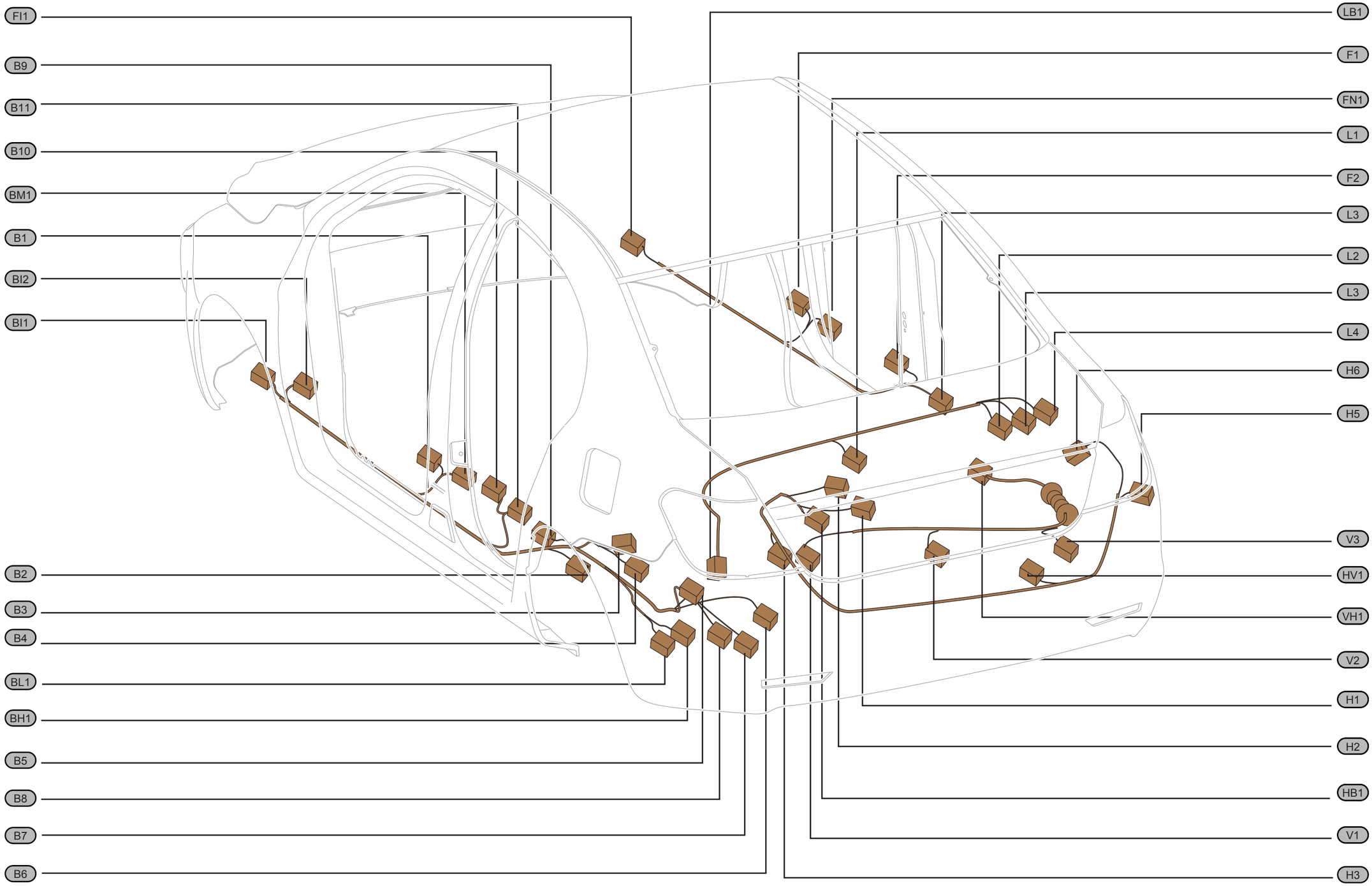
I/P Harness Connector Location View B



I/P Harness Connector Location View B

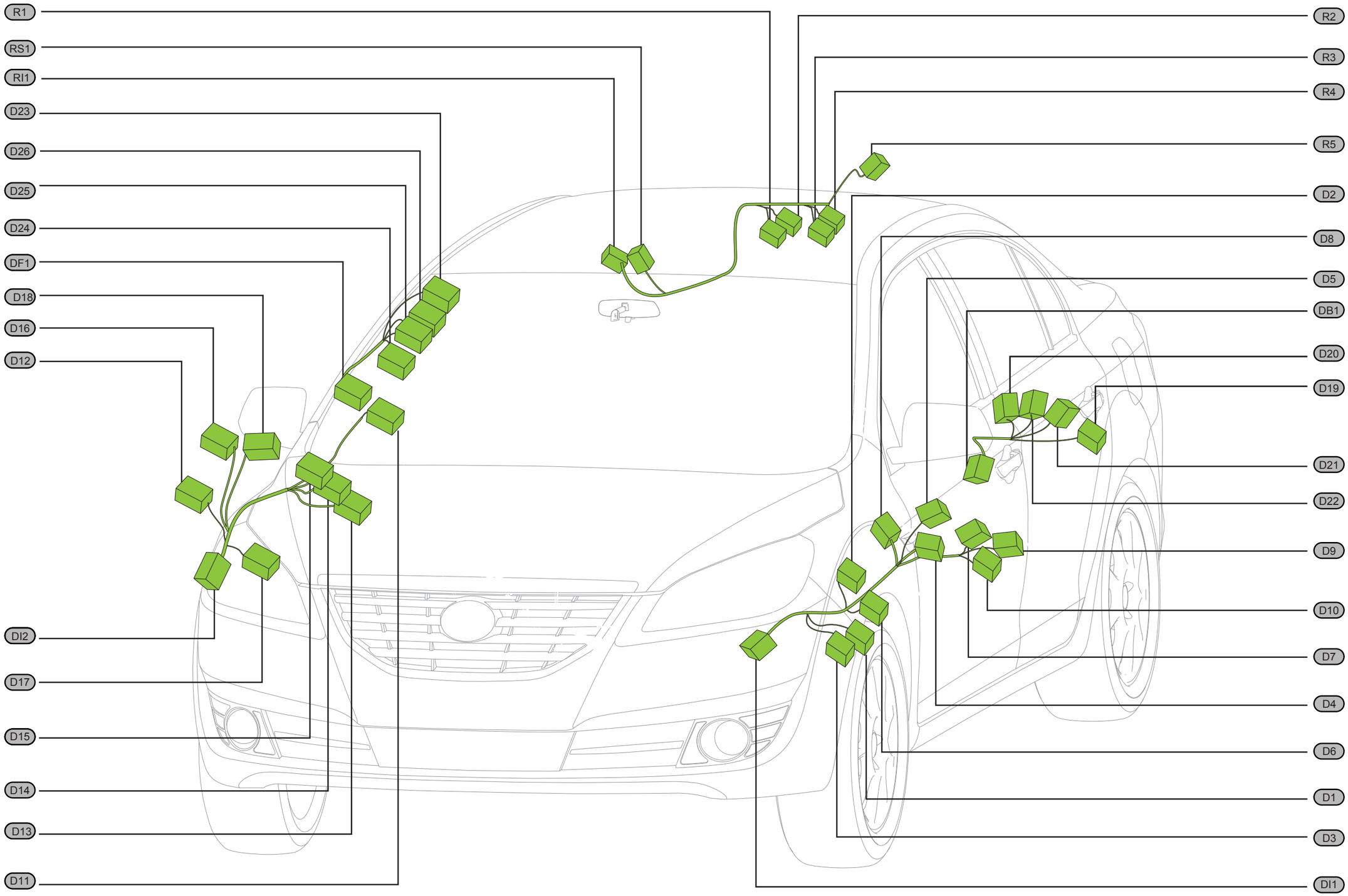


Body Harness Connector Location View

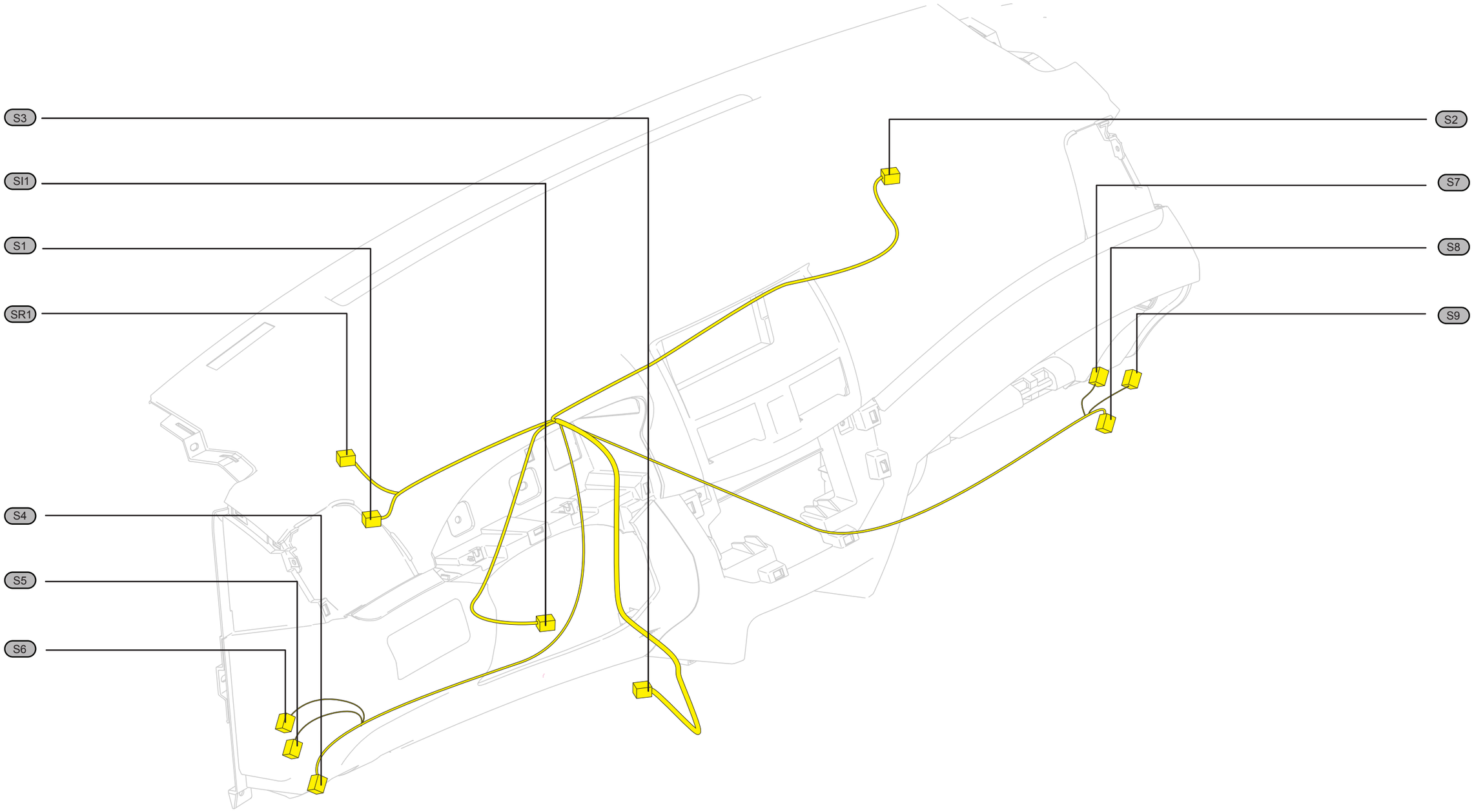


Harness Connector Location View

Door and Back Door Harness Connector Location View

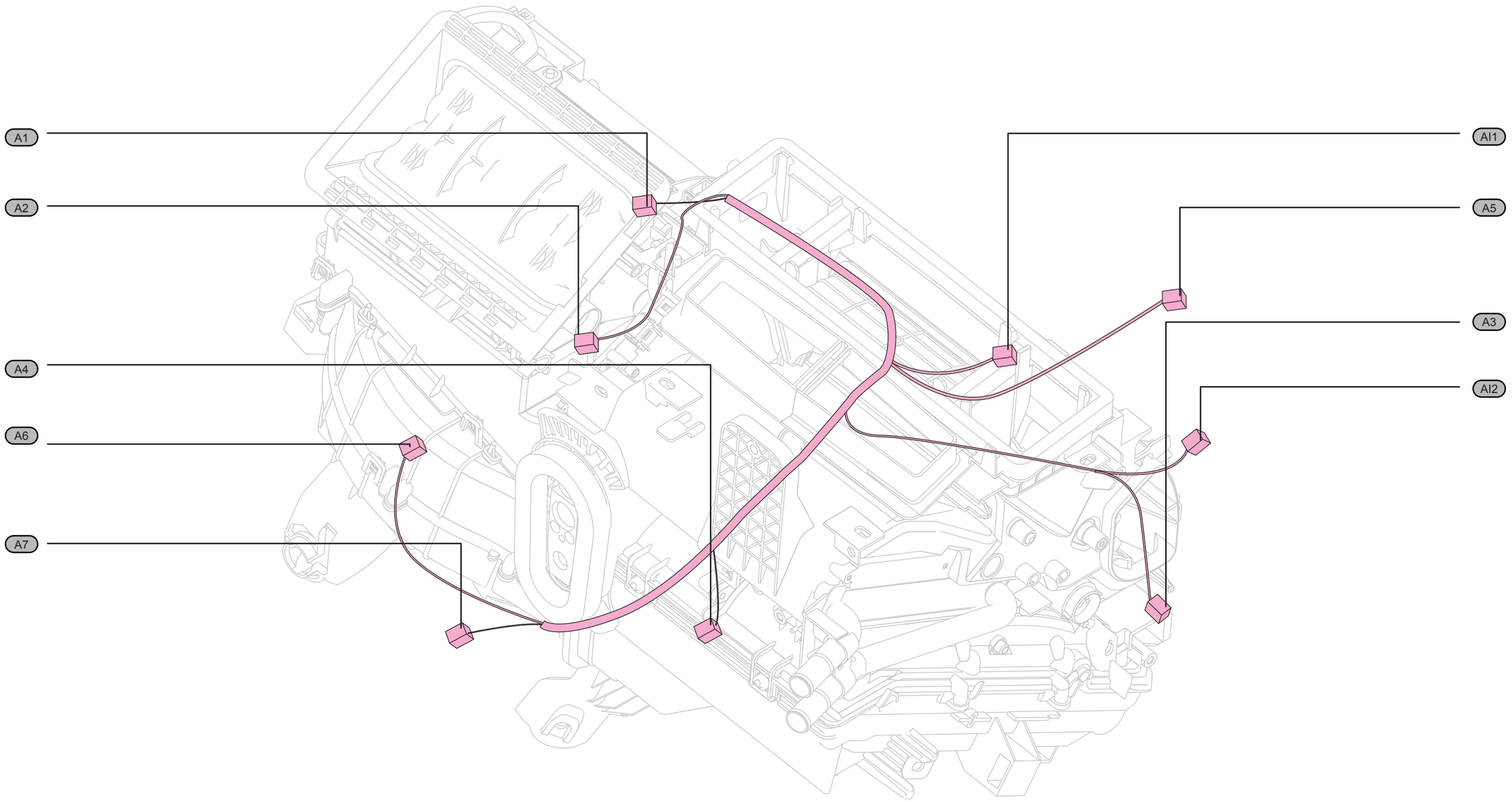


Airbag Harness Connector Location View



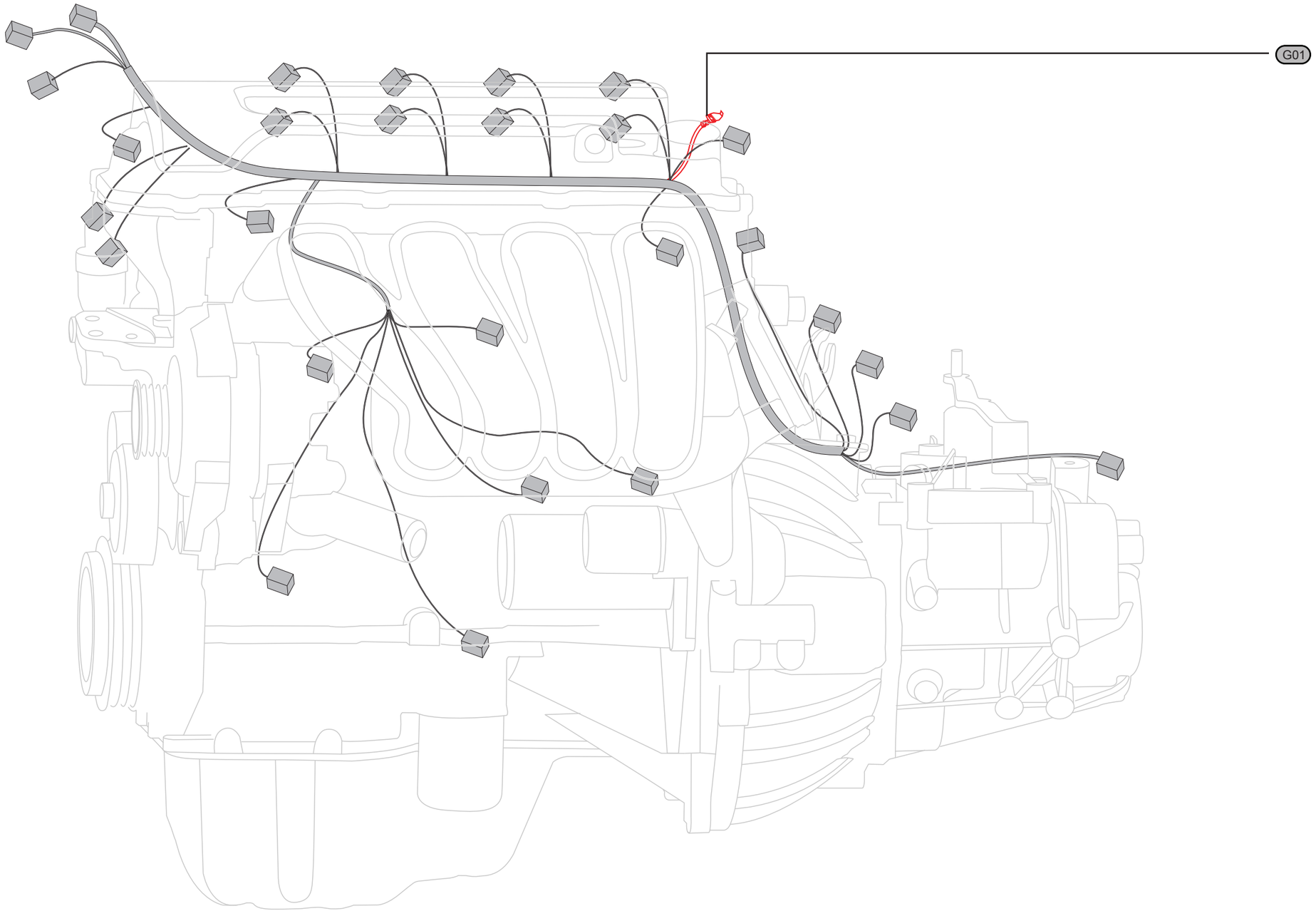
Harness Connector Location View

A/C Harness Connector Location View

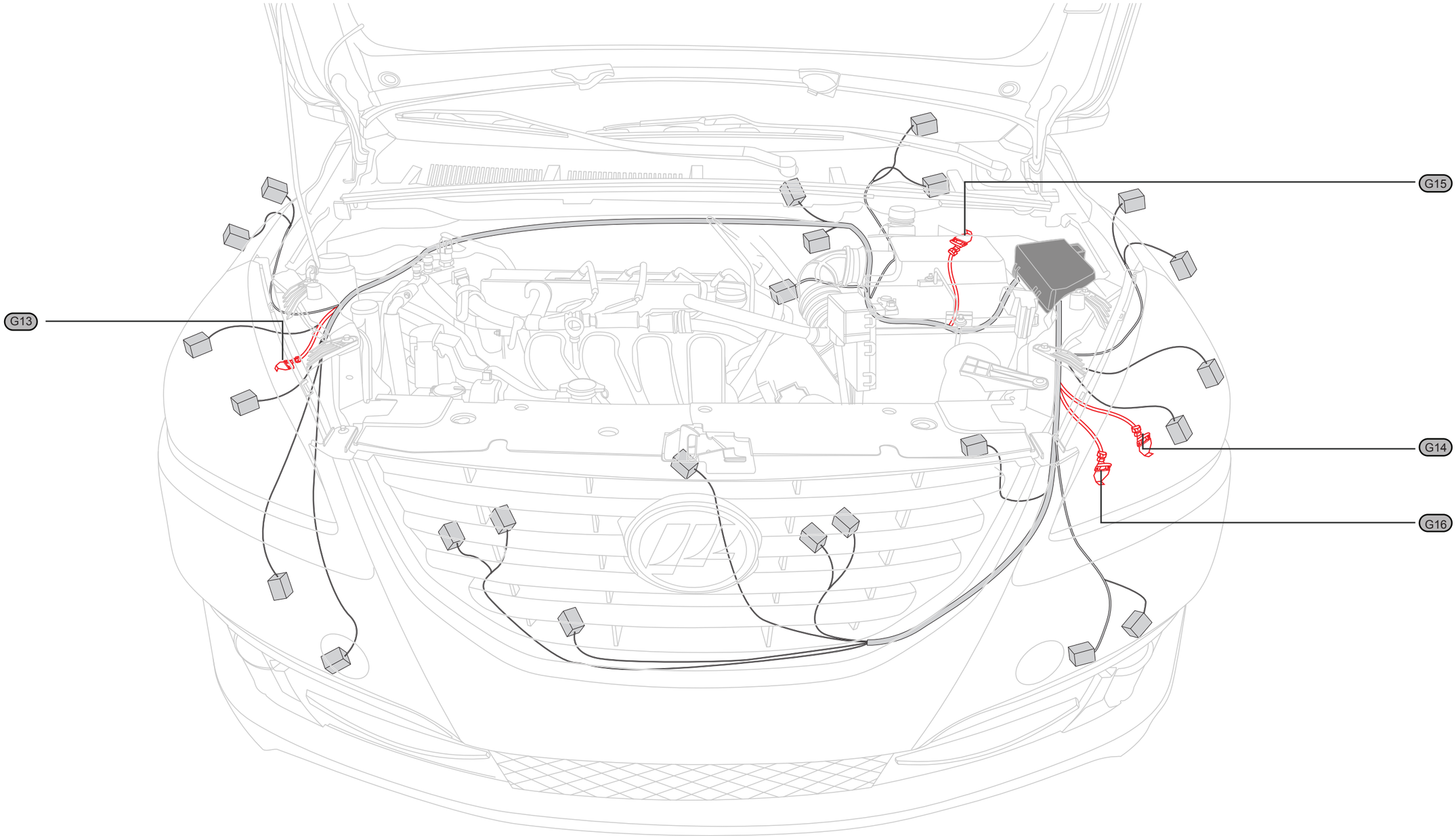


Harness Connector View

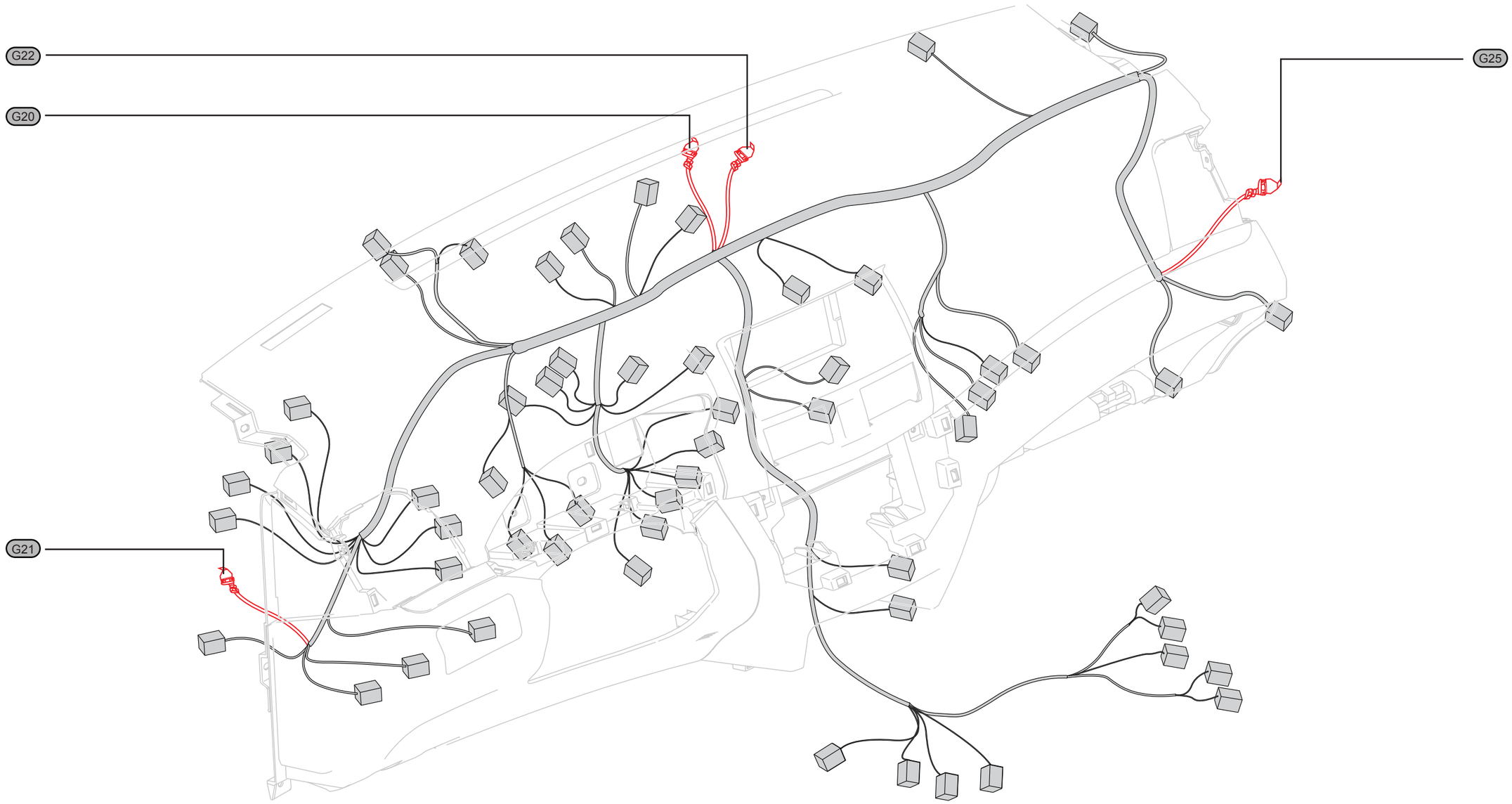
Engine Harness Connector Location View



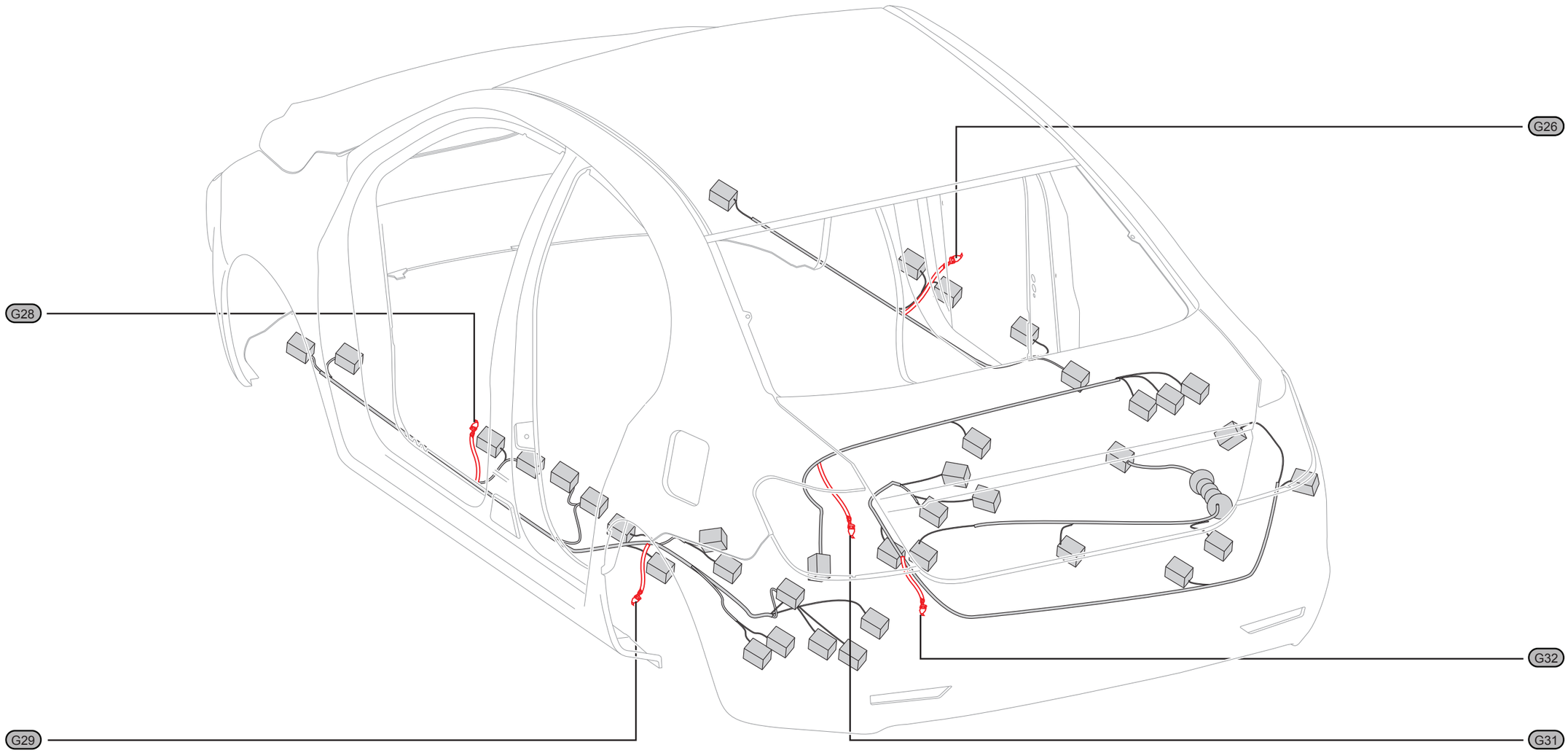
Engine Compartment Harness Connector Location View



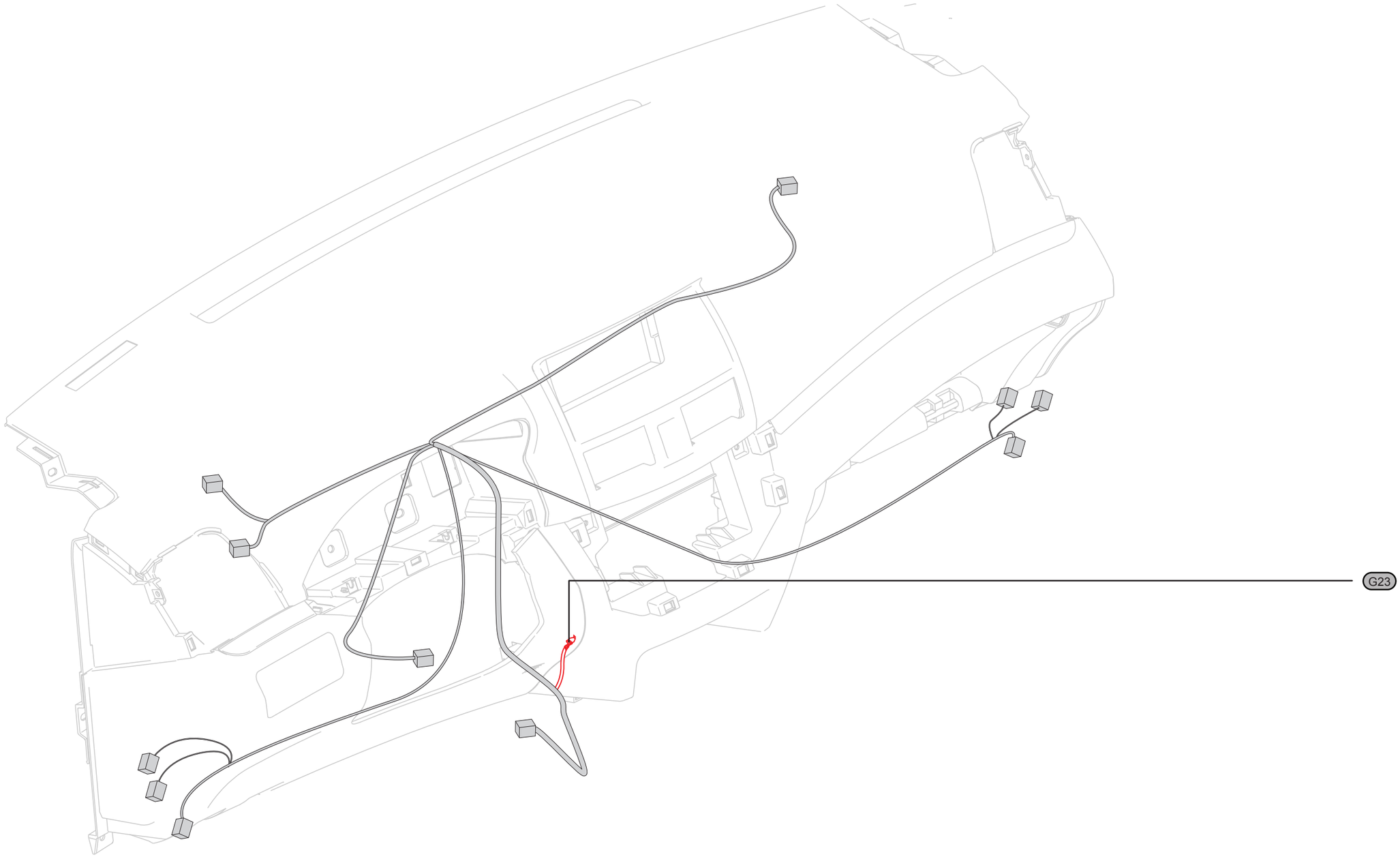
I/P Harness Connector Location View B



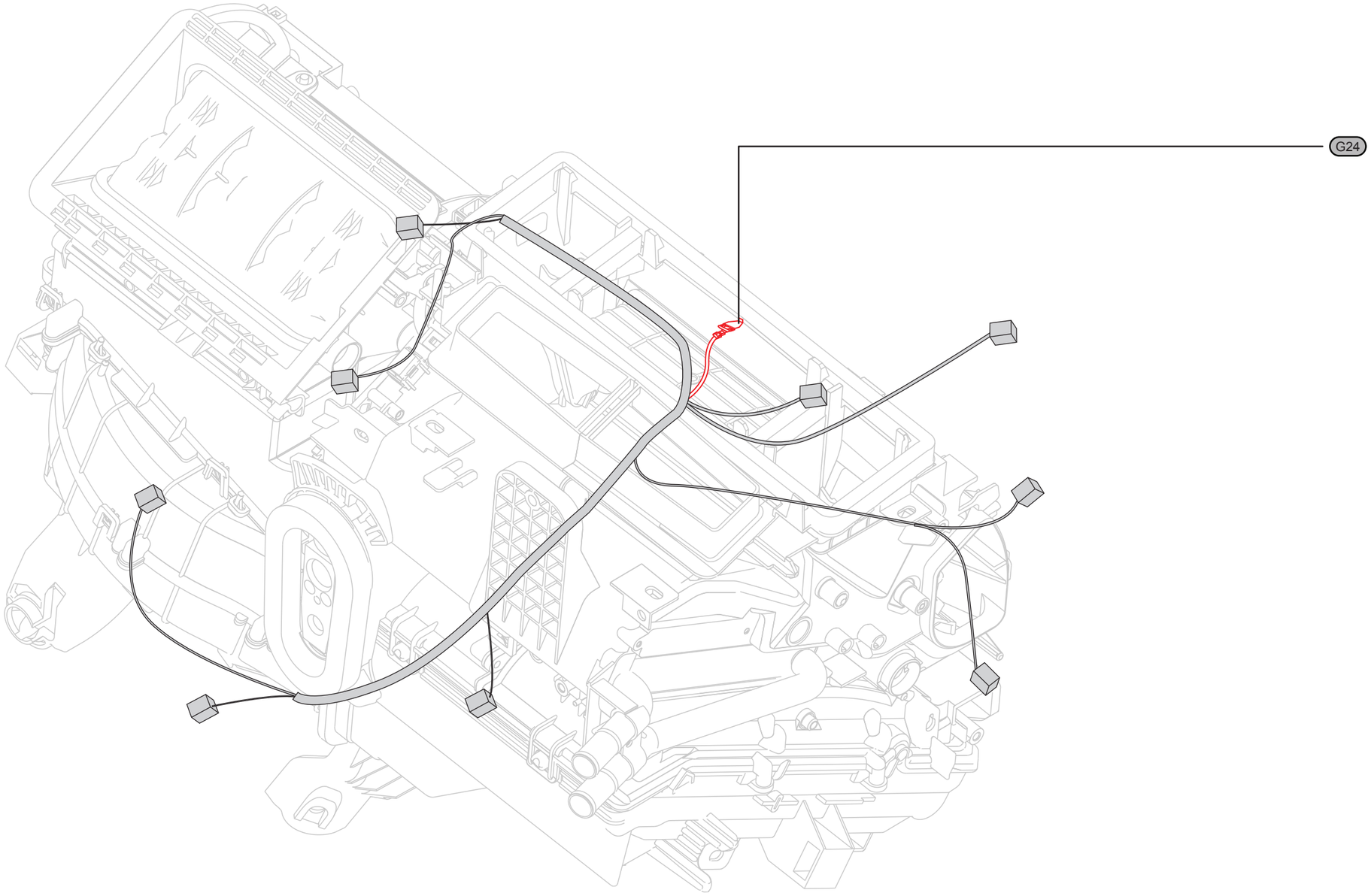
Body Harness Connector Location View



Airbag Harness Connector Location View

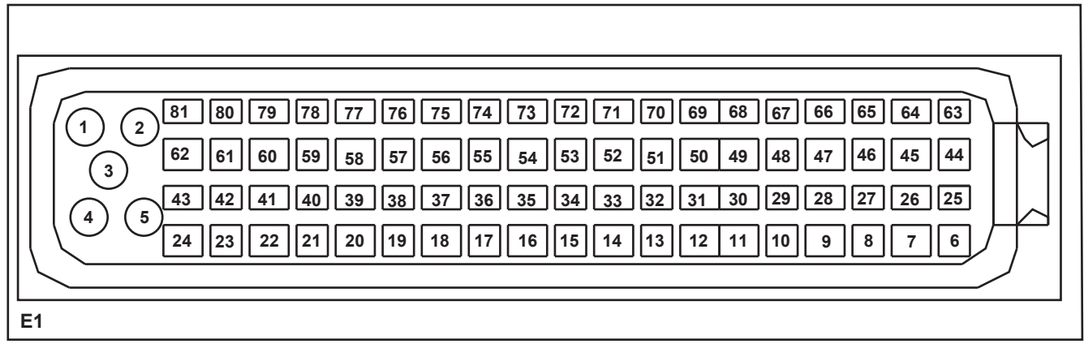


A/C Harness Connector Location View



Engine Harness Connector (E--)

ECU Harness Connector



E1

E1 Pin Definition

Pin Number	Wire Width / Color Color	Function
1	0.85 G/W	No. 3 cylinder ignition coil control
2	2.00 B	Power GND
3	2.00 B	Power GND
4	0.85 G/R	No. 1 cylinder ignition coil control
5	1.25 R/G	Main relay power supply
6	0.85 O/B	No. 1 cylinder injector control
7	0.85 P/Y	No. 3 cylinder injector control
8	0.85 Y/R	No. 2 cylinder injector control
9	0.50 Gr/Y	Fuel pump relay control
10	0.50 Gr/Bl	A/C compressor control
11	0.50 Bl	CKP low voltage level signal
12		NC
13		NC
14		NC
15		NC
16		NC
17	0.50 Gr/V	High speed fan control
18		NC
19		NC
20	0.85 V	ETC Motor (-)
21	0.85 Y	ETC Motor (+)
22		NC
23	0.85 G/V	Rear HO_2S heating (-)

Engine Harness Connector (E--)

24	0.85 V/W	Front HO_2S heating
25	0.85 G/Y	No. 4 cylinder injector control
26		NC
27	0.50 P	TPS signal
28		NC
29		NC
30	0.50 G	CKP high voltage level signal
31		NC
32		NC
33	0.50 Gr/R	Brake lamp
34		NC
35		NC
36	0.50 Y	KS high voltage level signal
37	0.50 B	KS low voltage level signal
38	0.50 W/B	CAN-L
39	0.50 W	CAN-H
40	0.85 G	Intermediate voltage switch signal
41	0.50 R/Y	APP signal
42	0.85 Gr	APP signal
43	0.50 Y/W	VVT valve control
44	0.85 W/B	Main relay control
45		NC
46		NC
47	0.50 O/Y	Front HO_2S signal
48	0.50 G/O	Rear HO_2S signal
49	0.50 Y/B	ECT signal
50		NC
51	0.50 O/G	VSS signal output
52	0.50 Bl	TPS signal
53		NC
54	0.50 P/Br	MAPS signal
55		NC
56		NC

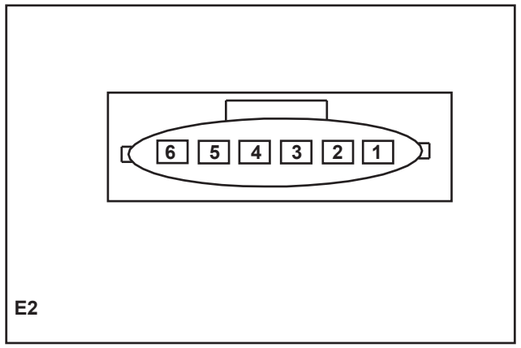
Engine Harness Connector (E--)

E1 Pin Definition

Pin Number	Wire Width / Color	Function
57		NC
58		NC
59	0.50 W/B	Weak acceleration sensor signal
60	0.50 Bl/G	PAS signal
61		NC
62	0.85 Br	No. 4 cylinder ignition coil control
63		NC
64	0.85 W/G	CPV control
65	0.50 Gr/O	Low speed fan control
66	0.50 R/W	5V Reference Voltage
67	0.85 R	Battery power
68	0.85 R/G	Ignition switch power
69	0.50 Gr/W	Brake switch
70	0.50 R/B	5V Reference Voltage
71	0.50 Bl	IATS signal
72		NC
73	0.50 G/B	HO_2S Signal GND
74	0.50 W/B	Signal GND
75	0.50 Gr/G	KW2000 communication
76	0.50 W/B	Signal GND
77	0.50 G/W	CMPS signal
78		NC
79	0.85 R/G	A/C request signal
80		NC
81	0.85 P/G	No. 2 cylinder ignition coil control

Engine Harness Connector (E--)

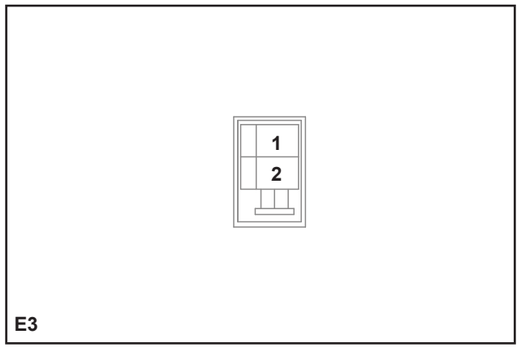
Accelerator Pedal Harness Connector



E2 Pin Defintion

Pin Number	Wire Width / Color	Function
1	0.50 Gr	signal
2	0.50 W/B	GND
3	0.50 R/Y	signal
4	0.50 W/B	GND
5	0.50 R/B	Power -
6	0.50 R/W	Power +

No.1 cylinder injector Harness Connector

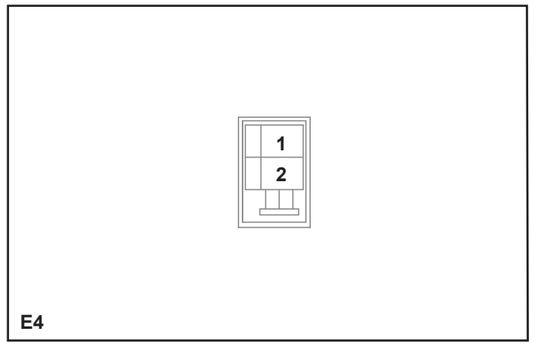


E3 Pin Definition

Pin Number	Wire Width / Color	Function
1	0.85 R/G	Power
2	0.85 O/B	Injector control

Engine Harness Connector (E--)

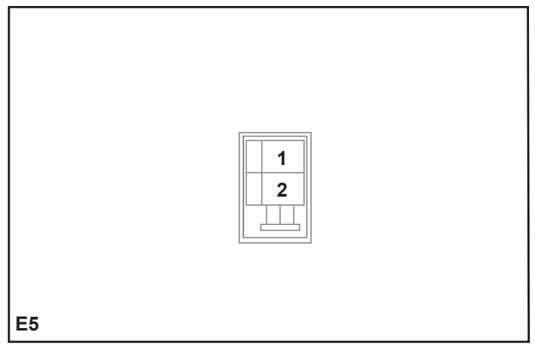
NO.2 Cylinder Injector Harness Connector



E4 Pin Definition

Pin Number	Wire Width / Color	Function
1	0.85 R/G	Power
2	0.85 Y/R	Injector control

NO.3 Cylinder Injector Harness Connector

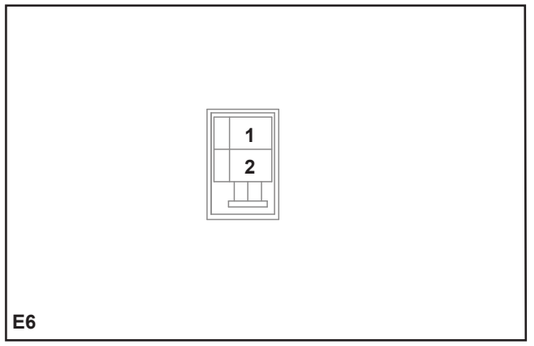


E5 Pin Definition

Pin Number	Wire Width / Color	Function
1	0.85 R/G	Power
2	0.85 P/Y	Injector control

Engine Harness Connector (E--)

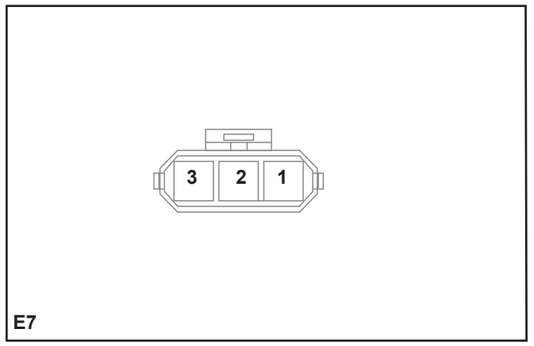
NO.4 Cylinder Injector Harness Connector



E6 Pin Definition

Pin Number	Wire Width / Color	Function
1	0.85 R/G	Injector power+
2	0.85 G/Y	NO.3 cylinder injector control

NO.1 Cylinder Ignition Coil Harness Connector

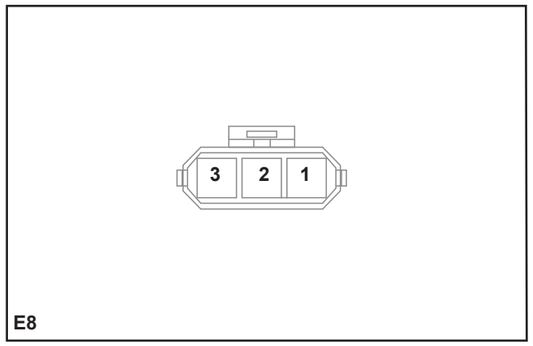


E7 Pin Definition

Pin Number	Wire Width / Color	Function
1	0.85 R/G	IG1 Power
2	0.85 B	GND
3	0.85 G/R	Ignition coil control

Engine Harness Connector (E--)

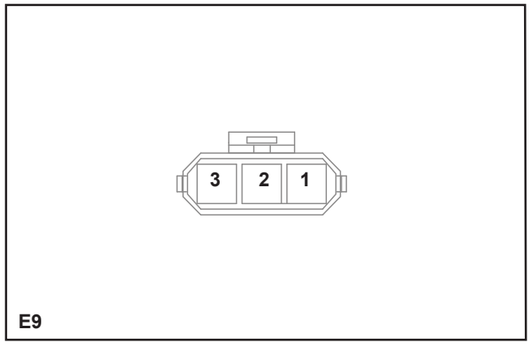
NO.2 Cylinder Ignition Coil Harness Connector



E8 Pin Definition

Pin Number	Wire Width / Color	Function
1	0.85 R/G	IG1 Power
2	0.85 B	Ground
3	0.85 P/G	Ignition coil control

NO.3 Cylinder Ignition Coil Harness Connector

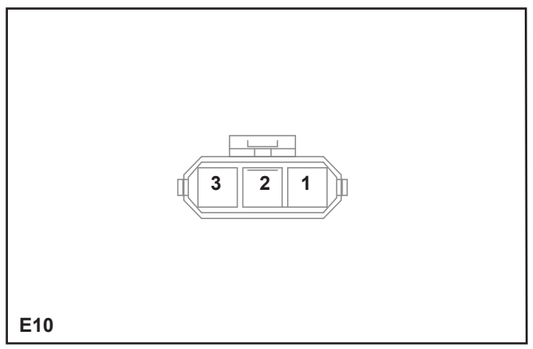


E9 Pin Definition

Pin Number	Wire Width / Color	Function
1	0.85 R/G	IG1 Power
2	0.85 B	GND
3	0.85 G/W	Ignition coil control

Engine Harness Connector (E--)

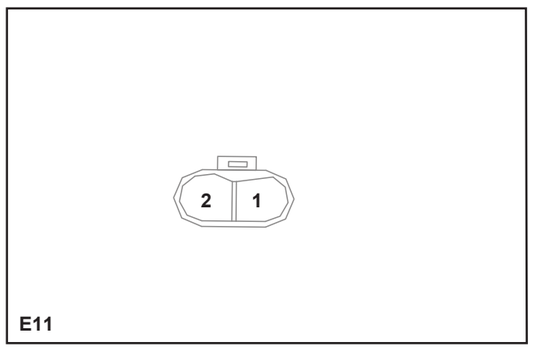
NO.4 Cylinder Ignition Coil Harness Connector



E10 Pin Definition

Pin Number	Wire Width / Color	Function
1	0.85 R/G	IG1 Power
2	0.85 B	GND
3	0.85 R/G	Ignition coil control

Canister Control Valve Harness Connector

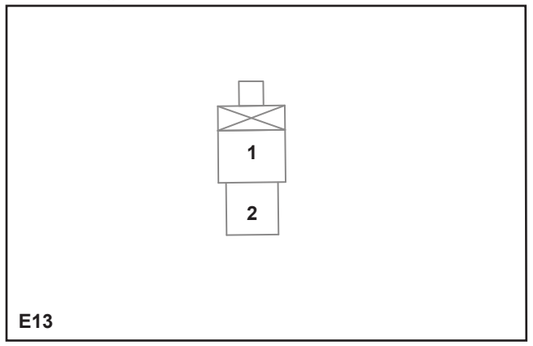


E11 Pin Definition

Pin Number	Wire Width / Color	Function
1	0.85 R/G	IG1 Power
2	0.85 W/G	CPV control

Engine Harness Connector (E--)

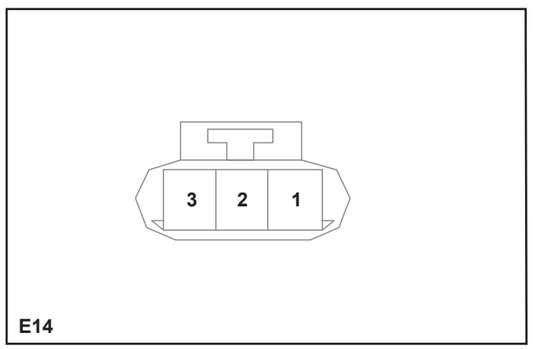
Reverse Light Switch Harness Connector



E13 Pin Definition

Pin Number	Wire Width / Color	Function
1	0.50 W/Bl	Switch signal
2	0.50 B	Ground

Crankshaft Position Sensor Harness Connector

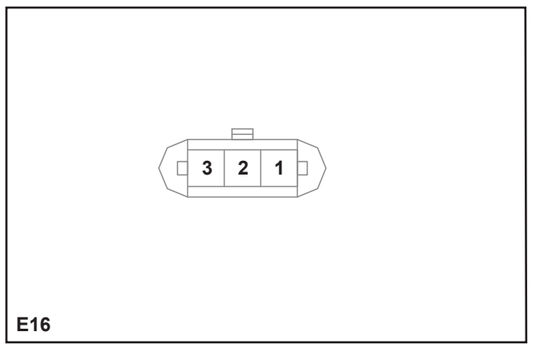


E14 Pin Definition

Pin Number	Wire Width / Color	Function
1	0.50 G	CPS high-voltage level
2	0.50 B	Ground
3	0.50 Bl	CPS low-voltage level

Engine Harness Connector (E--)

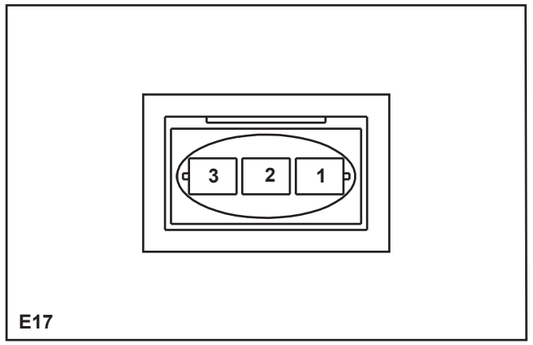
Camkshaft Position Sensor Harness Connector



E16 Pin Definition

Pin Number	Wire Width / Color	Function
1	0.50 R/B	Power
2	0.50 W/B	Signal ground
3	0.50 G/W	CMPS signal

Engine Coolant Temperature Sensor

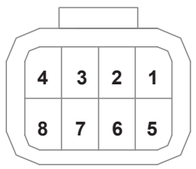


E17 Pin Definition

Pin Number	Wire Width / Color	Function
1	0.50 W	Power
2		NC
3	0.50 Y/B	Temperature signal

Engine Harness Connector (E--)

Electronic Throttle Valve Harness Connector

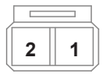


E18

E18 Pin Definition

Pin Number	Wire Width / Color	Function
1	0.50 W/B	Signal GND
2	0.50 Bl	TPS signal
3	0.50 P	TPS signal
4	0.50 R/B	5V Power
5	0.85 Y	TB Motor (+)
6		NC
7		NC
8	0.85 V	TB Motor (-)

Knock Sensor Harness Connector



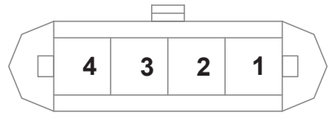
E19

E19 Pin Definition

Pin Number	Wire Width / Color	Function
1	0.50 Y	KS high-voltage level
2	0.50 B	KS low-voltage level

Engine Harness Connector (E--)

Intake Temperature/Pressure Sensor Harness Connector



E20

E20 Pin Definition

Pin Number	Wire Width / Color	Function
1	0.50 P/Br	MAPS signal
2	0.50 R/W	Power
3	0.50 Bl	IATS signal
4	0.50 W/B	Signal GND

Starter Solenoid Switch Harness Connector



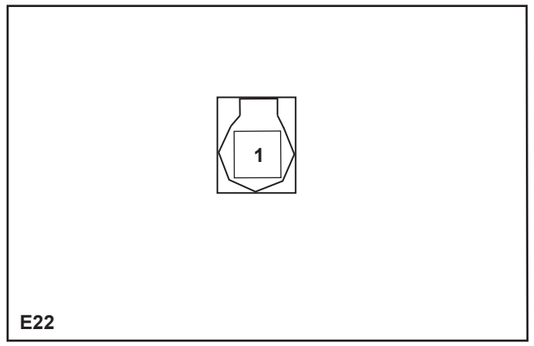
E21

E21 Pin Definition

Pin Number	Wire Width / Color	Function
1	2.00 W	Power

Engine Harness Connector (E--)

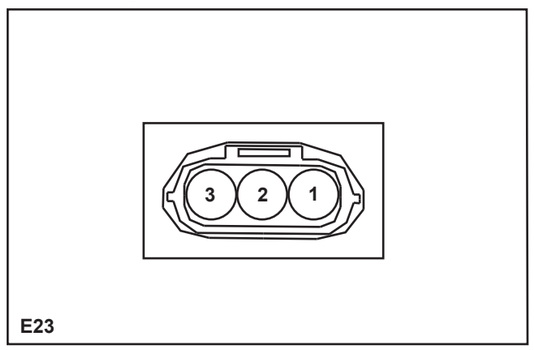
Oil-pressure Warning Switch Harness Connector



E22 Pin Definition

Pin Number	Wire Width / Color	Function
1	0.85 G/Gr	Oil pressure signal

Generator Adjuster Harness Connector

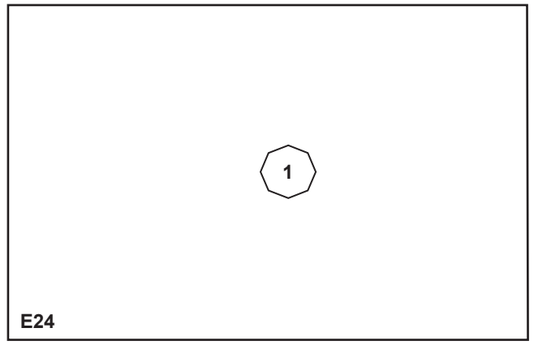


E23 Pin Definition

Pin Number	Wire Width / Color	Function
1	0.85 R	Battery power supply
2	0.85 R	IG1 PWR
3	0.85 W/R	Charging indicator lamp

Engine Harness Connector (E--)

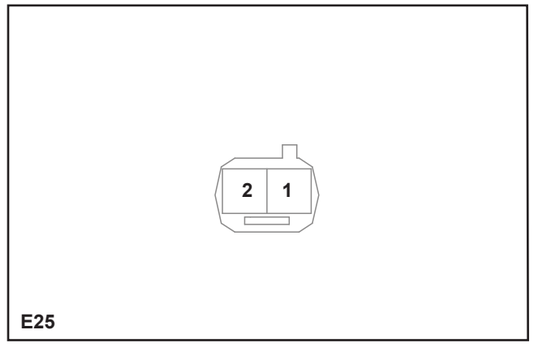
A/C Solenoid Switch Harness Connector



E24 Pin Definition

Pin Number	Wire Width / Color	Function
1	0.85 R/V	A/C compressor (+)

Intake VVT Valve Harness Connector

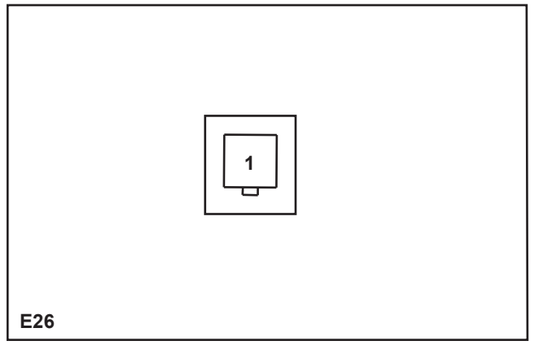


E25 Pin Definition

Pin Number	Wire Width / Color	Function
1	0.85 R/G	Power
2	0.85 Y/W	VVT valve control

Engine Harness Connector (E--)

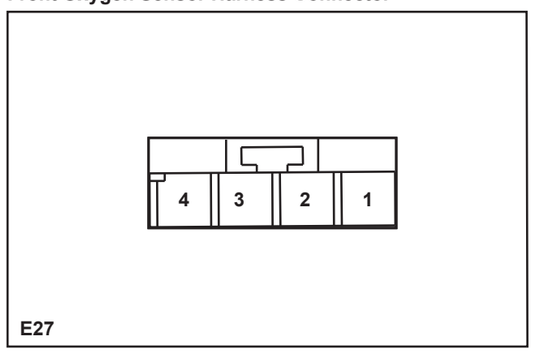
PAS Switch Harness ConnectorHarness Connector



E26 Pin Defintion

Pin Number	Wire Width / Color	Function
1	0.50 Bl/G	Switch signal

Front Oxygen Sensor Harness Connector

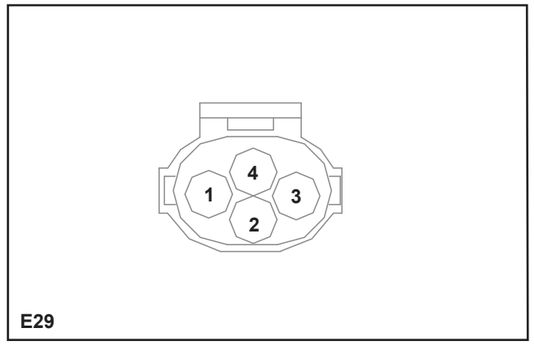


E27 Pin Definition

Pin Number	Wire Width / Color	
1	0.85 R/G	12V Power
2	0.85 V/W	HO_2S heating
3	0.50 O/Y	HO_2S Signal
4	0.50 G/B	Signal GND

Engine Harness Connector (E--)

A/C Pressure Switch Harness Connector



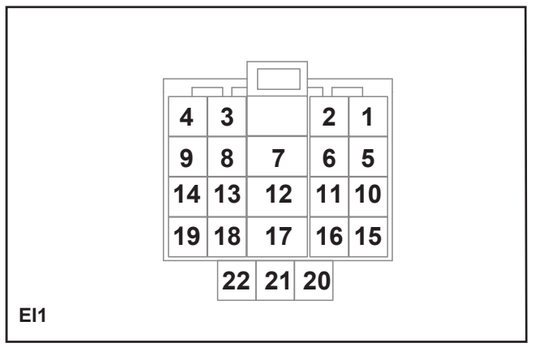
E29 Pin Definition

Pin Number	Wire Width / Color	
1	1.25 B	Ground
2	0.85 Y/G	A/C request signal
3	0.85 G	Medium pressure switch
4	0.85 R/G	High/low pressure switch

Harness Connector View

Engine Harness Connector (E--)

Engine Harness to I/P Harness Connector



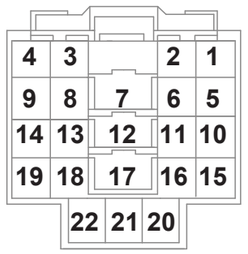
EI1

EI1 Pin Definition

Pin Number	Wire Width/color	Function
1	0.50 W/B	CAN-L
2	0.50 W	CAN-H
3	0.50 Gr/G	K-line
4	0.50 G/B	Ground
5	0.85 R/G	Main relay power supply
6		NC
7	0.50 O/G	Vehicle signal
8	0.50 R/W	VSS IG1 Power
9	0.85 G/V	Rear HO_2S heating (-)
10	0.50 G/O	Rear HO_2S signal
11		NC
12	0.85 W/R	Charging indication
13	0.85 G/Gr	Oil pressure signal
14	0.50 W/Bl	Reverse light switch signal
15	0.50 Y/G	A/C request signal
16	0.85 R/G	ECM ignition switch power supply
17	0.85 R	Generator power output
18		NC
19	0.50 Gr/W	Auxiliary brake signal
20	0.50 Gr/R	Main brake signal
21		NC
22		NC

Engine Harness Connector (E--)

Engine Harness to Engine Copartment Harness Connector



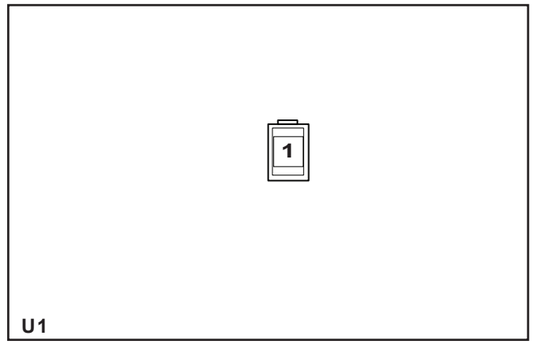
EU1

EU1 Pin Definition

Pin Number	Wire Width/color	Function
1	0.50 Gr/V	High speed fan control
2	0.50 Gr/Bl	A/C compressor control
3	0.50 Gr/Y	Fuel pump control
4	0.50 Gr/O	Low speed fan control
5	0.85 W/B	Main relay control
6	0.80 R/V	A/C compressor (+)
7	2.00 W	Starter (+)
8		NC
9		NC
10		NC
11		NC
12	0.85 R	ECM battery power
13		NC
14		NC
15		NC
16		NC
17	1.25 R/G	Main relay power
18		NC
19		NC
20		NC
21		NC
22		NC

Engine Compartment Harness Connector (U--)

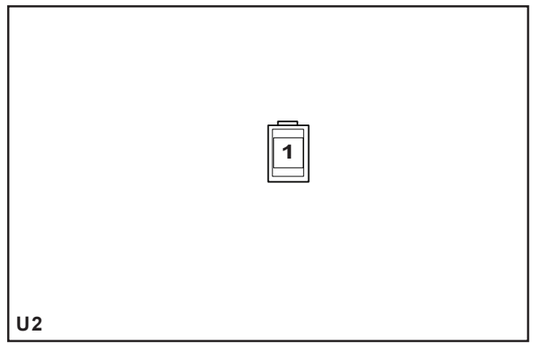
Horn Harness Connector



U1 Pin Definition

Pin Number	Wire Width/Color	Function
1	0.85 R/V	Power

Horn Harness Connector

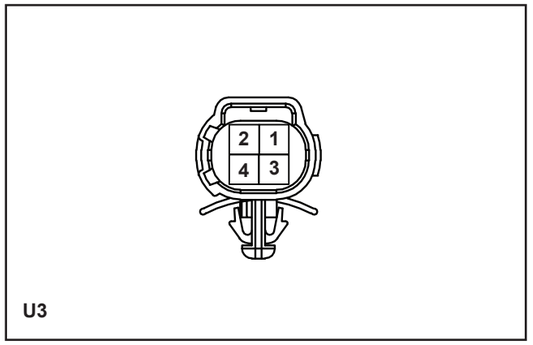


U2 Pin Definition

Pin Number	Wire Width/Color	Function
1	0.85 B	Ground

Engine Compartment Harness (U--)

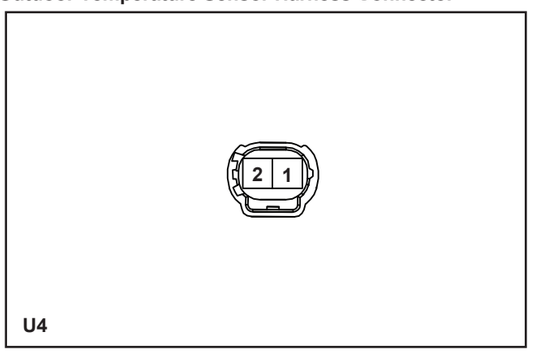
Engine Hood Switch Harness Connector



U3 Pin Definition

Pin Number	Wire Width / Color	Function
1	0.50 W/G	Engine hood switch
2	0.50 B	Ground
3		NC
4		NC

Outdoor Temperature Sensor Harness Connector

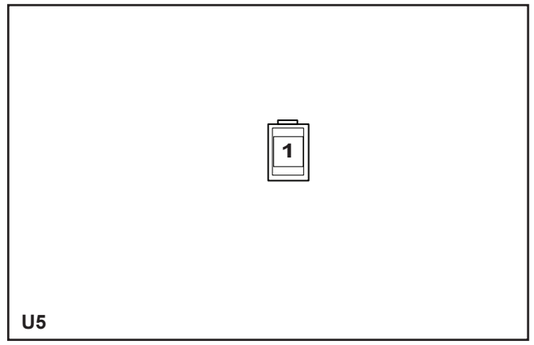


U4 Pin Definition

Pin Number	Wire Width / Color	Function
1	0.50 V/G	Signal
2	0.50 W/Y	Power

Engine Compartment Harness Connector (U--)

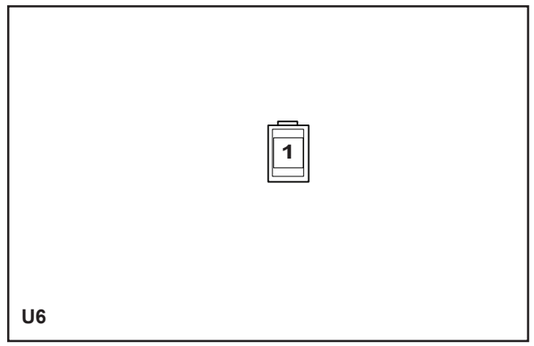
Horn Harness Connector



U5 Pin Definition

Pin Number	Wire Width/Color	
1	0.85 R/V	Power

Horn Harness Connector

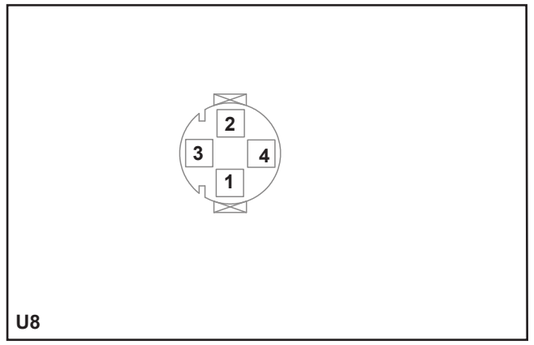


U6 Pin Definition

Pin Number	Wire Width/Color	
1	0.85 B	Ground

Engine Compartment Harness (U--)

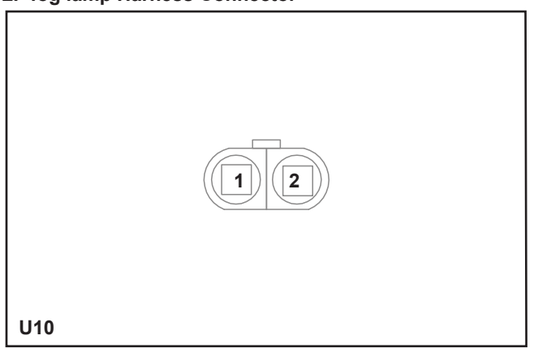
Fan Motor Harness Connector



U8 Pin Definition

Pin Number	Wire Width / Color	Function
1	3.00 B	Ground
2	3.00 R/W	Power
3	3.00 R/B	Ground
4	3.00 R/G	Power

LF fog lamp Harness Connector

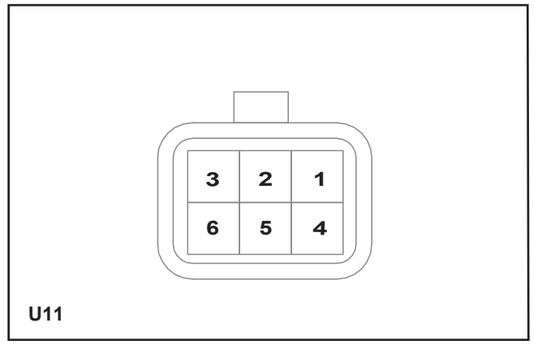


U10 Pin Definition

Pin Number	Wire Width / Color	Function
1	0.85 Bl/R	Power
2	0.85 B	Ground

Engine Compartment Harness Connector (U--)

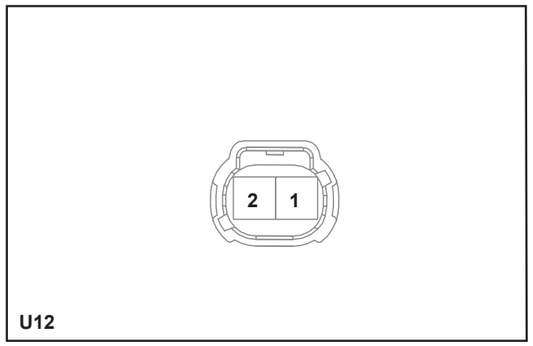
LF Headlamp Harness Connector



U11 Pin Definition

Pin Number	Wire Width/Color	Function
1	0.85 Bl/G	Left low-beam headlamp (+)
2	0.85 Bl/W	Left high-beam headlamp (+)
3	1.25 B	Ground
4	0.50 Bl/Y	Dimming motor (+)
5	1.25 B	Ground
6	0.50 Y/W	Front left width lamp (+)

LF Turn Lamp Harness Connector

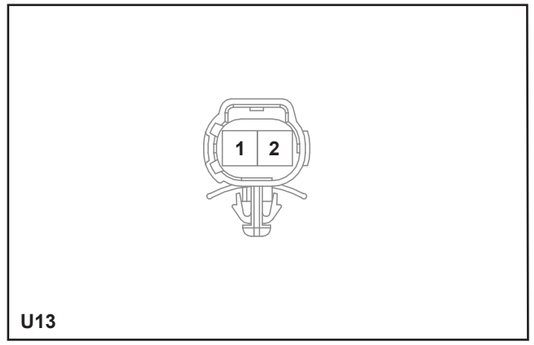


U12 Pin Definition

Pin Number	Wire Width / Color	Function
1	0.50 Y/G	Power
2	0.50 B	Ground

Engine Compartment Harness (U--)

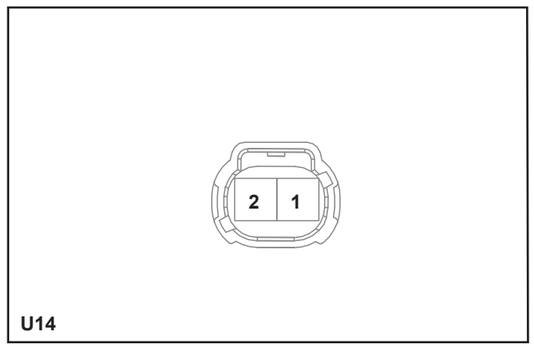
LF Wheel Speed Sensor Harness Connector



U13 Pin Definition

Pin Number	Wire Width / Color	Function
1	0.85 Y/B	Signal
2	0.85 Y	Power

Left Side Turn Lamp Harness Connector

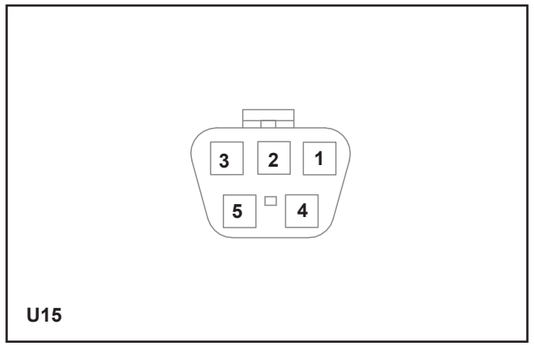


U14 Pin Definition

Pin Number	Wire Width / Color	Function
1	0.50 Y/G	Power
2	0.50 B	Ground

Engine Compartment Harness Connector (U--)

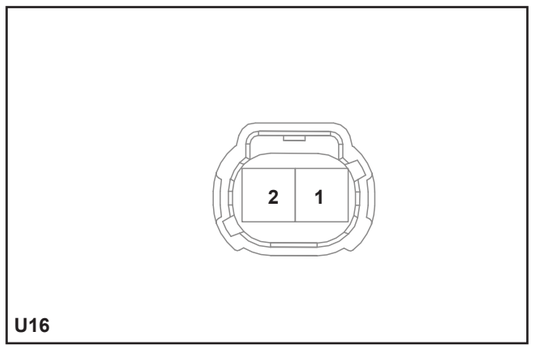
Front Wiper Motor Harness Connector



U15 Pin Definition

Pin Number	Wire Width/Color	Function
1	0.50 Br/W	Wiper return signal
2		NC
3	1.25 Br/R	Low speed of wiper (+)
4	1.25 B	Wiper motor (-)
5	1.25 Br/G	Wiper high speed (+)

Brake Fluid level sensor Harness Connector

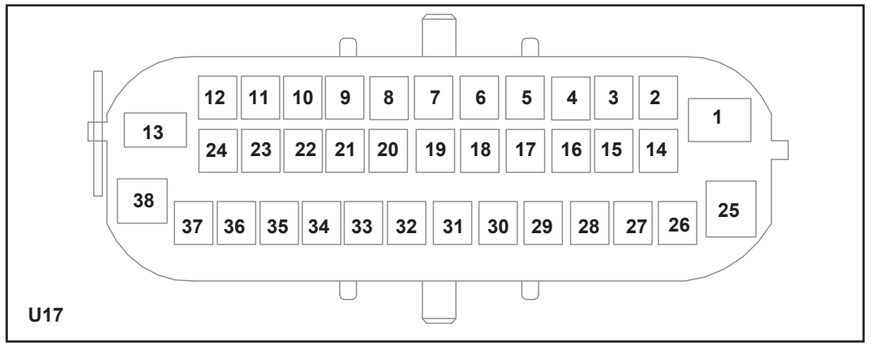


U16 Pin Definition

Pin Number	Wire Width / Color	Function
1	0.50 G/V	Signal
2	0.50 B	Power

Engine Compartment Harness (U--)

ABS ECU Harness Connector



U17 Pin Definition

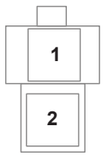
Pin Number	Wire Width / Color	Function
1	4.00 R	Motor power
2		NC
3		NC
4	0.85 G/B	Front right wheel speed sensor signal
5		NC
6		NC
7		NC
8	0.85 Y/B	Front left wheel speed sensor signal
9		NC
10		NC
11		NC
12		NC
13	4.00 B	Motor grounding
14	0.50 W/B	CAN-L
15		NC
16	0.85 G	Front right wheel speed sensor power
17	0.50 Br	Rear right wheel speed sensor power
18	0.50 O/B	Rear left wheel speed sensor signal
19	0.85 Y	Front left wheel speed sensor power
20		NC
21		NC
22		NC
23		NC
24		NC
25	2.50 R	Valve relay power

Engine Compartment Harness Connector (U--)

U17 Pin Definition

26	0.50 W	CAN-H
27		-
28	0.50 R/W	ECU power
29	0.50 Br/B	Rear right wheel speed sensor signal
30	0.50 Gr/RS	Brake lamp switch signal input
31	0.50 O	Right left wheel speed sensor power
32		-
33		-
34		-
35		-
36		-
37		-
38	2.50 B	ECU grounding

Front Washing Motor Harness Connector



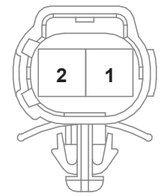
U18

U18 Pin Definition

Pin Number	Wire Width / Color	Function
1	0.50 Br/Y	Power+
2	0.50 B	Power-

Engine Compartment Harness (U--)

RF Wheel Speed Sensor Harness Connector

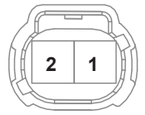


U20

U20 Pin Definition

Pin Number	Wire Width / Color	Function
1	0.85 G/B	Signal
2	0.85 G	Power

Right Side Turn Lamp Harness Connector



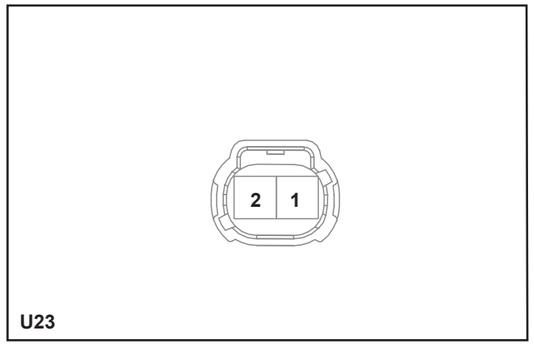
U21

U21 Pin Definition

Pin Number	Wire Width / Color	Function
1	0.50 Y/R	Power
2	0.50 B	Ground

Engine Compartment Harness Connector (U--)

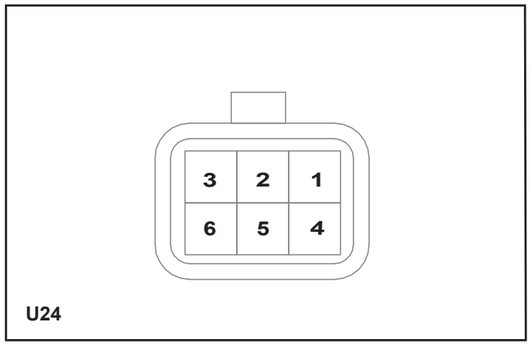
RF Turn Lamp Harness Connector



U23 Pin Definition

Pin Number	Wire Width / Color	
1	0.50 Y/R	Power
2	0.50 B	Ground

LF Headlamp Harness Connector

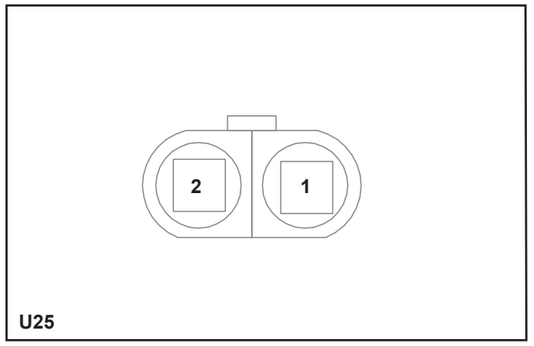


U24 Pin Definition

Pin Number	Wire Width/Color	Function
1	0.85 Bl/G	Right low-beam headlamp (+)
2	0.85 Bl/W	Right high-beam headlamp (+)
3	1.25 B	Ground
4	0.50 Bl/Y	Dimming motor (+)
5	1.25 B	Ground
6	0.50 Y/W	Front right width lamp (+)

Engine Compartment Harness (U--)

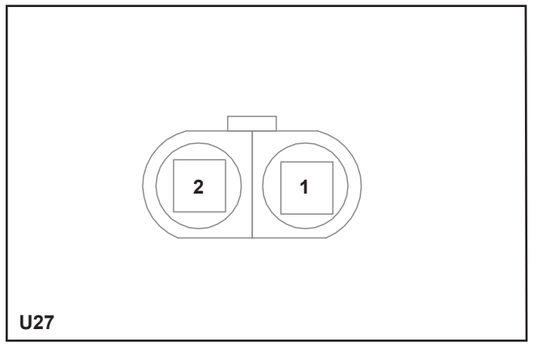
RF Fog Lamp Harness Connector



U25 Pin Definition

Pin Number	Wire Width / Color	
1	0.85 B	Power-
2	0.85 Bl/R	Power+

Day-time Running Lamp Harness Connector

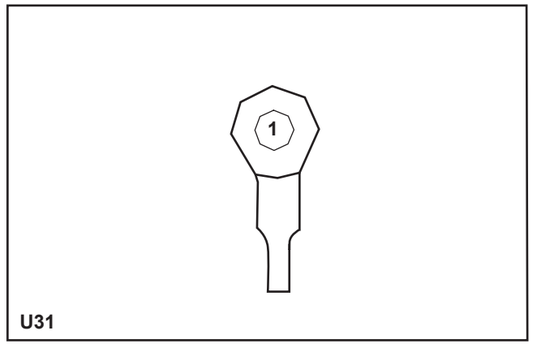


U27 Pin Definition

Pin Number	Wire Width / Color	
1	0.50 B	Power-
2	0.50 Bl/V	Power+

Engine Compartment Harness Connector (U--)

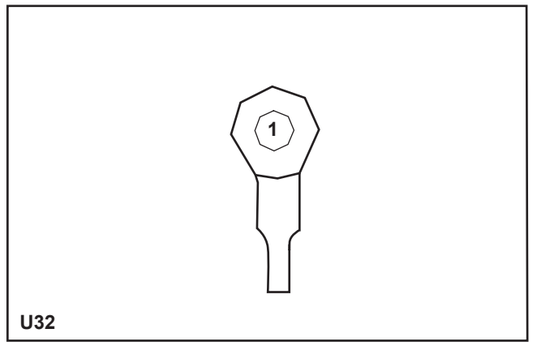
I/P Fuse and Relay Box Power Harness Connector



U31 Pin Definition

Pin Number	Wire Width / Color	
1	8.00 R	Power

Engine Compartment Fuse and Relay Box Power Harness Connector



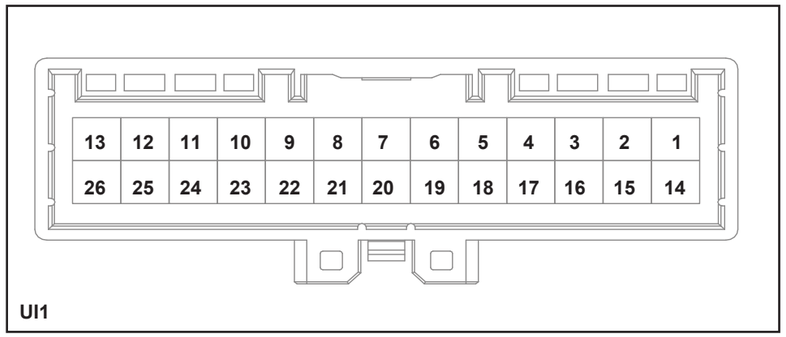
U32 Pin Definition

Pin Number	Wire Width / Color	
1	10.00 R	Power

Engine Compartment Harness (U--)

Engine Compartment Harness Connector (U--)

Engine Compartment Harness to I/P Harness Connector



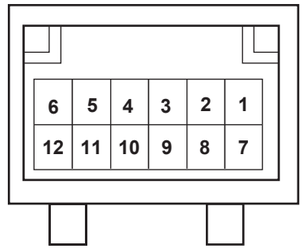
UI1

UI1 Pin Definition

Pin Number	Wire Width / Color	Function
1	0.50 Br/Y	Front washer motor power+
2	1.25 Br/R	Low speed of wiper power+
3	1.25 Br/G	Wiper high speed power
4	0.50 Br/W	Wiper return signal
5	0.50 Bl/V	NC
6	0.50 W/G	Engine hood switch signal
7	0.50 R	Cooling fan power
8	0.50 R/W	ABS ECU power
9	0.50 Gr/R	Brake lamp switch signal
10	0.85 G/V	Brake fliud level sensor signal
11	0.50 V/G	Outdoor temperature sensor signal
12	0.50 W/Y	Outdoor temperature sensor power
13	0.50 Bl/Y	Dimming motor power
14		NC
15	1.25 R/Bl	Oil pump motor power
16	0.50 W/O	Horn control
17	0.50 W/R	Start control
18	0.50 G/W	Front fog lamp control
19	0.50 G/Y	Low beam lamp control
20	0.50 G/Bl	High beam lamp control
21		NC
22	0.50 Y/W	Width lamp power
23	0.50 Y/R	Right turn signal lamp power
24	0.50 Y/G	Left turn signal lamp power
25		NC
26		NC

Engine Compartment Harness (U--)

Engine Compartment Harness to I/P Harness Connector



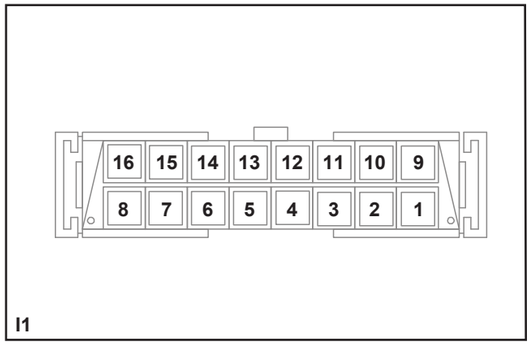
UI2

UI2 Pin Definition

Pin Number	Wire Width / Color	Function
1		NC
2		NC
3	0.50 Br	Rear right wheel speed sensor power
4	0.50 Br/B	Rear right wheel speed sensor signal
5	0.50 O	Rear left wheel speed sensor power
6	0.50 O/B	Rear left wheel speed sensor signal
7		NC
8	0.50 W	CAN-H
9	0.50 W/B	CAN-L
10		NC
11		NC
12		NC

Instrument Harness Connector (I--)

Fault Diagnosis Interface Harness Connector

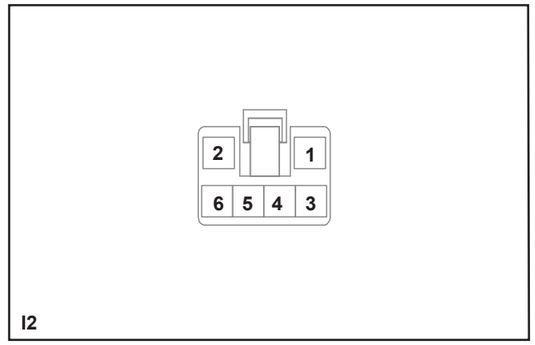


I1 Pin Definition

Pin Number	Wire Width / Color	Function
1		NC
2	0.50 W	BCAN-H
3		NC
4	0.50 B	GND
5	0.50 B	GND
6	0.50 W	CAN-H
7	0.50 Gr/G	K-Line
8	0.50 R/W	Ignition switch power
9		NC
10	0.50 W/B	BCAN-L
11		NC
12		NC
13		NC
14	0.50 W/B	CAN-L
15		NC
16	0.50 R	Battery power

Instrument Harness Connector (I--)

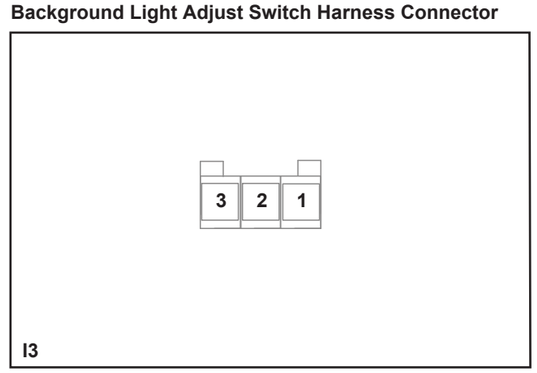
Headlamp Adjust Switch Harness Connector



I2 Pin Definition

Pin Number	Wire Width / Color	Function
1	0.85 B	Ground
2	0.85 Bl/Y	Dimming motor control
3		NC
4	0.85 V	Background lighting lamp (+)
5		NC
6	0.85 R	Adjusting switch power supply

Background Light Adjust Switch Harness Connector

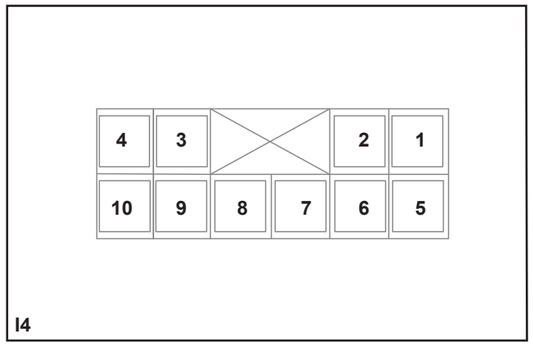


I3 Pin Definition

Pin Number	Wire Width / Color	Function
1	0.50 V	Background lighting lamp (+)
2	0.50 Y/W	Background light control
3	0.50 B	Ground

Instrument Harness Connector (I--)

Power Rearview Mirror Switch Harness Connector

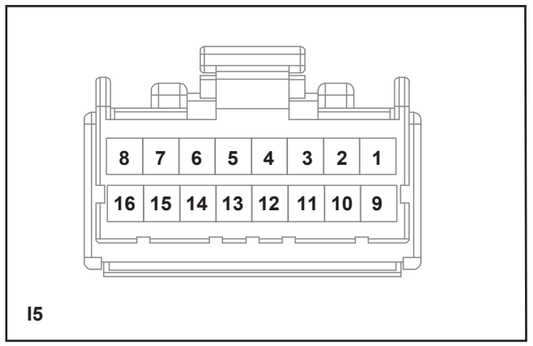


I4

I4 Pin Definition

Pin Number	Wire Width / Color	Function
1	0.85 B	Ground
2	0.50 Gr/V	Outside rearview mirror turn down, right
3	0.85S R	Battery power
4	0.50 V	Background lighting lamp (+)
5	0.50 Br/G	Left exterior rearview mirror, turn left
6	0.50 Br/R	Left exterior rearview mirror, turn up
7		NC
8		NC
9	0.50 Br/W	Right exterior rearview mirror, turn up
10	0.50 Gr/Y	Right exterior rearview mirror, turn left

Combination Lever Harness Connector



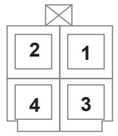
I5

Instrument Harness Connector (I--)

I5 Pin Definition

Pin Number	Wire Width / Color	Function
1		NC
2		NC
3	0.50 G/Bl	Wiper switch signal
4	0.50 G/R	NC
5	0.50 G/V	Wiper regulator switch signal
6	0.50 G/B	Combination lever grounding
7	0.50 O/R	Lamp switch signal
8	0.50 G/W	Dimmer switch signal
9		NC
10		NC
11		NC
12	0.50 G/Br	Turn signal lamp switch signal
13	0.50 G/Y	Fog lamp switch signal
14		NC
15		NC
16		NC

Right Seat Heating Harness Connector



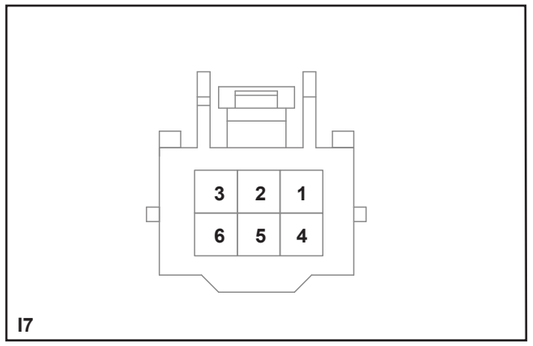
I6

I6 Pin Definition

Pin Number	Wire Width / Color	Function
1	0.50 Y/W	Right seat heating signal
2	0.85 B	GND
3	0.85 R	IG2 power
4		NC

Instrument Harness Connector (I--)

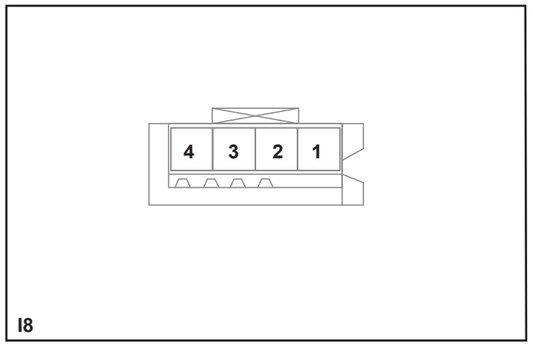
Ignition Switch Harness Connector



I7 Pin Definition

Pin Number	Wire Width / Color	Function
1	0.50 Y/Br	ACC power-supply output
2	0.50 Y/G	IG1 power-supply output
3	0.50 Br	AM1 GND
4	0.50 Y/W	IG2 power-supply output
5	0.50 Br	AM2 GND
6	0.50 Y/R	"Start" position

Key decoration Harness Connector

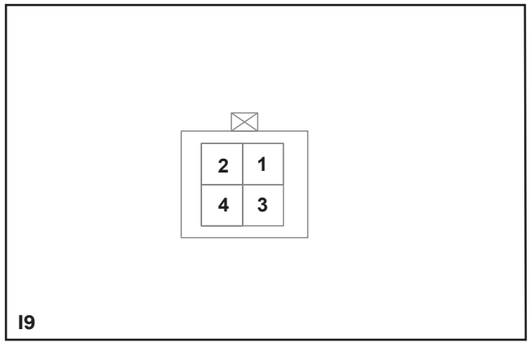


I8 Pin Definition

Pin Number	Wire Width / Color	Function
1	0.50 G/O	IMMO coil power -
2	0.50 G/W	IMMO coil power +
3	0.50 B	Key decoration power -
4	0.50 Br/O	Key decoration power +

Instrument Harness Connector (I--)

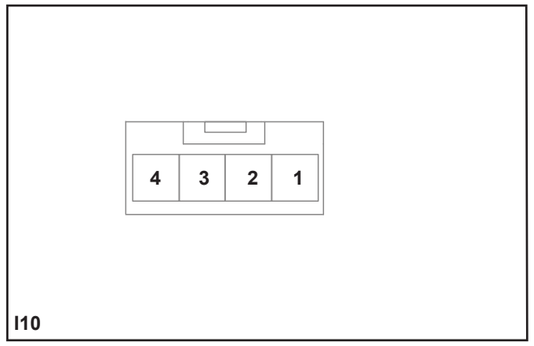
Key Insert Switch Harness Connector



I9 Pin Definition

Pin Number	Wire Width / Color	Function
1	0.50 Y/O	Key insert switch
2	0.50 Br	Ground
3	0.50 G/V	Ignition switch knob signal
4	0.50 B	Ground

Steering Lock Controller Harness Connector

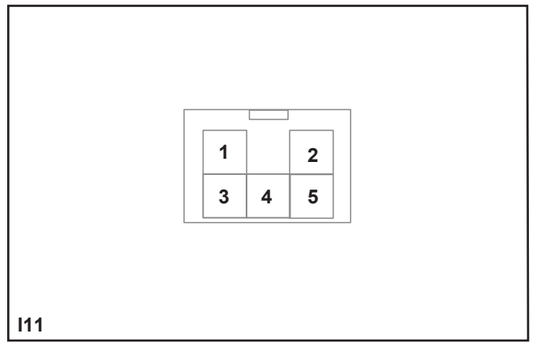


I10 Pin Definition

Pin Number	Wire Width / Color	Function
1	0.50 W/V	Signal wire
2	0.50 W/Y	Ground
3	0.50 W/G	12V Power
4	0.50 W/R	5V Power

Instrument Harness Connector (I--)

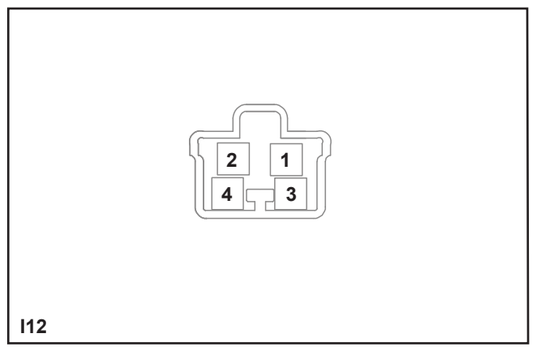
Clock Spring Harness Connector



I11 Pin Definition

Pin Number	Wire Width / Color	Function
1	0.50 G/V	Steering wheel switch (+)
2	0.50 W/O	Horn switch
3	0.50 V	Background lighting lamp (+)
4	0.50 B	Background lighting lamp (-)
5	0.50 G/W	Steering wheel switch (-)

Cluttch Switch Harness Connector

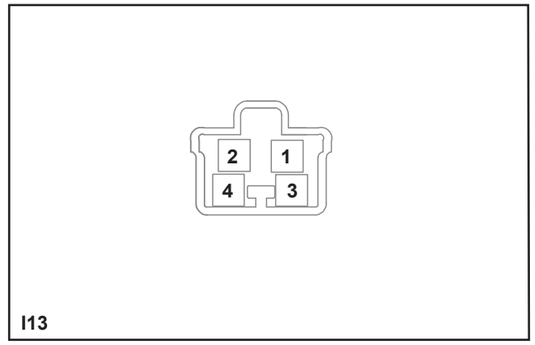


I12 Pin Definition

Pin Number	Wire Width / Color	Function
1		NC
2		NC
3	0.50 W/R	Switch signal
4	0.50 Br	Ground

Instrument Harness Connector (I--)

Brake Lamp Switch Harness Connector

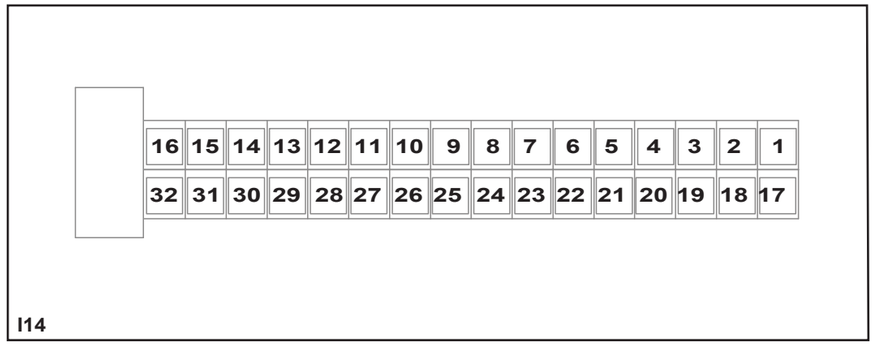


I13 Pin Definition

Pin Number	Wire Width / Color	Function
1	0.50 R/G	Battery power
2	0.50 Gr/R	Main brake switch
3	0.50 R/Y	IG1 Power
4	0.50 Gr/W	Auxiliary brake switch

Instrument Harness Connector (I--)

Instument Cluster Harness Connector



I14 Pin Definition

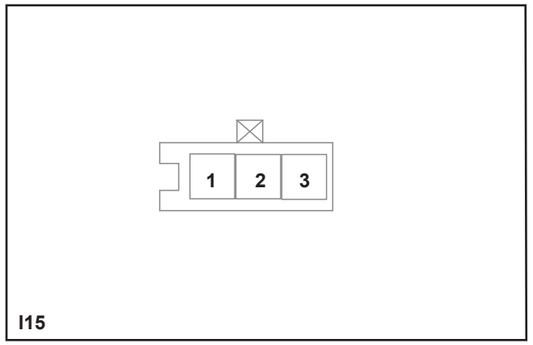
Pin Number	Wire Width / Color	Function
1	0.85 R	Battery power supply
2	0.85 B	GND
3	0.50 O/G	Vehicle signal
4	0.50 G/V	Hand brake alarm
5	0.50 W	CAN-H
6	0.50 W/B	CAN-L
7	0.50 G/Y	Unfastened driver seat belt signal
8		NC
9		NC
10	0.50 G/Gr	Oil pressure alarm
11	0.50 V	Background lighting lamp (+)
12		
13		
14		
15		NC
16		NC
17	0.85 R/W	Ignition switch power supply
18	0.85 B	GND
19		NC
20	0.85 W/R	Charging indication
21		NC
22	0.50 G/W	Fuel level signal
23	0.50 G/Bl	Unfastened passenger seat belt signal
24		NC
25	0.50 G/V	Brake fluid level waring

Instrument Harness Connector (I--)

I14 Pin Definition

Pin Number	Wire Width / Color	Function
26	0.50 W/B	CAN-L
27	0.50 W	CAN-H
28		NC
29		NC
30		NC
31		NC
32		NC

Ambient Light Sensor Harness Connector



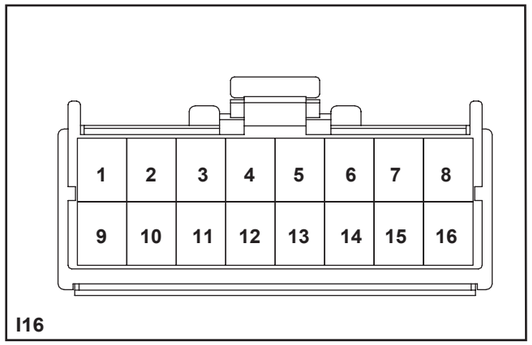
I15 Pin Definition

Pin Number	Wire Width / Color	Function
1	0.50 Br	Power
2	0.50 W/Y	Signal
3	0.50 R/Y	Ground

Harness Connector View

Instrument Harness Connector (I--)

PEPS ECU Harness Connector

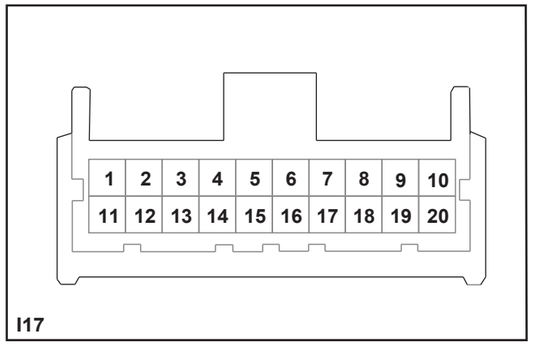


I16 Pin Definition

Pin Number	Wire Width / Color	Function
1	0.50 W	CAN-H
2	0.50 W/B	CAN-L
3	0.50 G/V	Ignition switch knob signal
4	0.85 G/Br	Driver's door handle microswitch signal
5	0.50 G/Y	Trunk microswitch signal
6		NC
7	0.50 W/Y	Steering lock controller grounding
8	0.50 W/R	Steering lock controller 5V power
9	0.50 G/W	IMMO coil power +
10	0.50 G/O	IMMO coil power -
11		NC
12		NC
13		NC
14		NC
15	0.50 W/V	Steering lock controller communication
16	0.50 W/G	Steering lock controller 12V power

Instrument Harness Connector (I--)

PEPS ECU Harness Connector

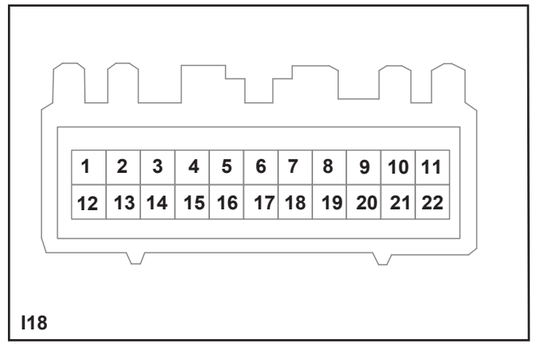


I17 Pin Definition

Pin Number	Wire Width / Color	Function
1	0.50 R	Battery power
2	0.50 B	Ground
3		NC
4		NC
5		NC
6	0.50 Gr/O	Indoor rear receiving aerial (+)
7	0.50 Gr/Bl	Indoor low-frequency receiving aerial (+)
8	0.50 Gr/G	Indoor low-frequency receiving aerial (+)
9	0.50 Gr/Br	Trunk low-frequency magnetic field aerial (+)
10	0.50 Gr/R	Driver's door handle low-frequency magnetic field aerial (+)
11	0.50 R	Battery power
12	0.50 B	Ground
13		NC
14		NC
15		NC
16	0.50 Gr/B	Indoor rear receiving aerial (-)
17	0.50 Br/V	Indoor low-frequency receiving aerial (-)
18	0.50 Gr/Y	Indoor low-frequency receiving aerial (-)
19	0.50 Gr	Trunk low-frequency magnetic field aerial (-)
20	0.50 Gr/W	Driver's door handle low-frequency magnetic field aerial (-)

Instrument Harness Connector (I--)

Front BCM Harness Connector



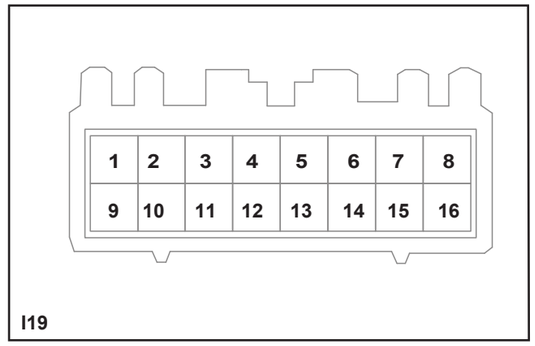
I18

I18 Pin Definition

Pin Number	Wire Width / Color	Function
1	0.85 R/G	BCM battery power
2	0.50 O/Bl	Ceiling light control
3	0.50 G	Line
4	0.50 W	CAN-H
5	0.50 W/B	CAN-L
6	0.50 Y/O	Key insert switch
7	0.50 Y/Br	Ignition key ACC
8	0.50 Y/G	Ignition key IG1
9	0.50 Y/W	Ignition key IG2
10	0.50 Y/R	Ignition key "START"
11	0.85 R/Y	BCM IG1 Power
12	0.85 B	Ground
13	0.50 Br	Ground
14		NC
15		NC
16		NC
17		NC
18	0.50 W/Br	ACC relay control
19	0.50 W/Y	IG1 relay control
20	0.50 W/G	IG2 relay control
21	0.50 W/R	ST relay control
22		NC

Instrument Harness Connector (I--)

Front BCM Harness Connector



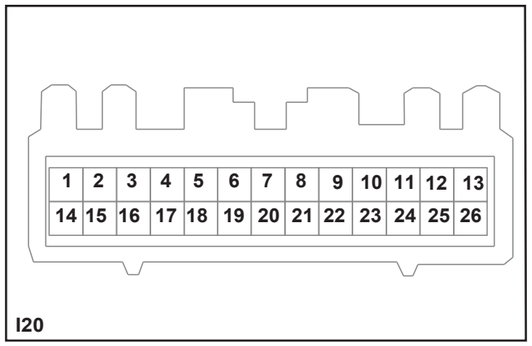
I19

I19 Pin Definition

Pin Number	Wire Width / Color	Function
1		NC
2		NC
3		NC
4	0.50 W/Bl	Reverse light switch
5	0.50 V/R	Front right door switch
6	0.50 V/B	Front left door switch
7	0.50 W/R	Clutch switch
8	0.50 Br/W	Wiper motor return signal
9		NC
10		NC
11	0.50 G/W	Engine hood switch
12	0.85 W	Emergency lamp switch
13	0.50 V/G	Rear right door switch
14	0.50 V/W	Right left door switch
15		NC
16		NC

Instrument Harness Connector (I--)

Front BCM Harness Connector

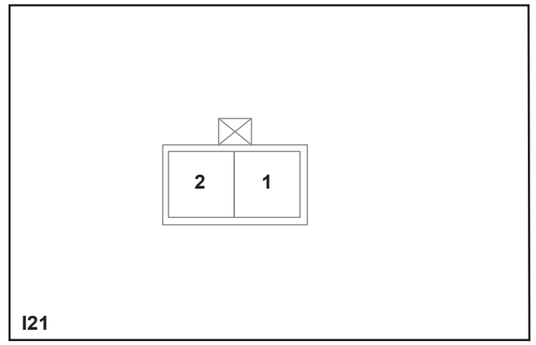


I20 Pin Definition

Pin Number	Wire Width / Color	Function
1	1.25 R	Width lamp/ turn signal lamp power
2	0.50 Y/W	Front width beam, back light
3	0.50 Br/O	Key decoration
4	0.50 W/Y	Solar sensor input
5	0.50 G/B	Analog switch grounding
6		NC
7	0.50 G/W	Dimmer switch
8	0.50 O/R	Light control switch
9	0.50 G/Y	Fog lamp combination lever
10	0.50 G/Br	Steering combination lever
11	0.50 Br/Y	Front wiper scrubber
12		NC
13	2.00 R/W	Wiper/Washer power
14	0.50 Y/G	Right turn signal lamp
15	0.50 Y/R	Left turn signal lamp
16	0.50 G/Bl	High beam lamp control
17	0.50 G/Y	Low beam lamp control
18	0.50 G/W	Front fog lamp control
19		NC
20		NC
21	0.50 G/V	Wiper regulator switch
22	0.50 G/Bl	Wiper switch
23	0.50 G/Gr	Rear wiper switch
24	1.25 Br/R	Front wiper motor, low-speed
25	1.25 Br/G	Front wiper motor, high-speed
26	1.25 B	Ground

Instrument Harness Connector (I--)

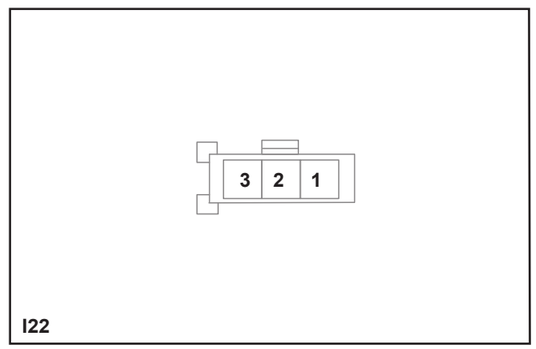
Indoor Temperature Sensor Harness Connector



I21 Pin Definition

Pin Number	Wire Width / Color	Function
1	0.50 W/Y	Sensor (-)
2	0.50 V/W	Signal

Cigarette lighter Harness Connector

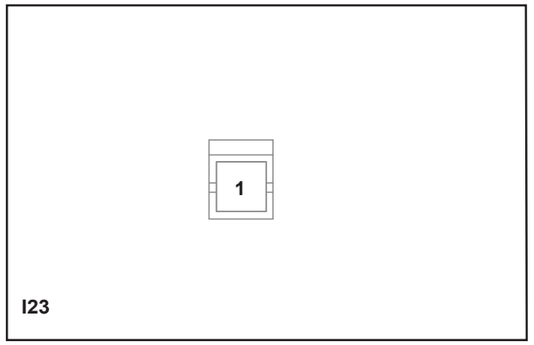


I22 Pin Definition

Pin Number	Wire Width / Color	Function
1	0.50 V	Background lighting lamp (+)
2	1.25 R	Cigarette Lighter (+)
3	1.25 B	Cigarette Lighter (-)

Instrument Harness Connector (I--)

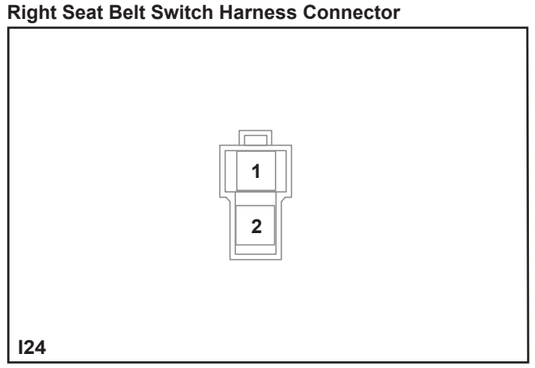
Parking Brake Switch Harness Connector



I23 Pin Definition

Pin Number	Wire Width / Color	Function
1	0.50 G/V	Signal

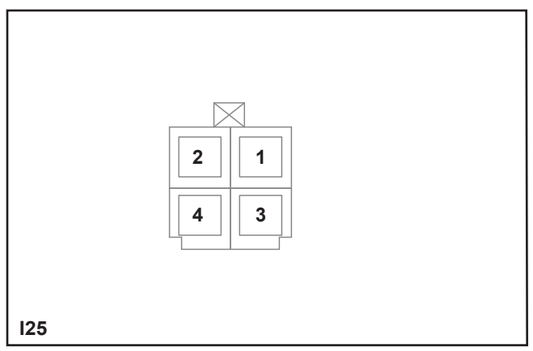
Right Seat Belt Switch Harness Connector



I24 Pin Definition

Pin Number	Wire Width / Color	Function
1	0.50 G/Br	Signal
2	0.50 B	Ground

Occupant Probe Harness Connector

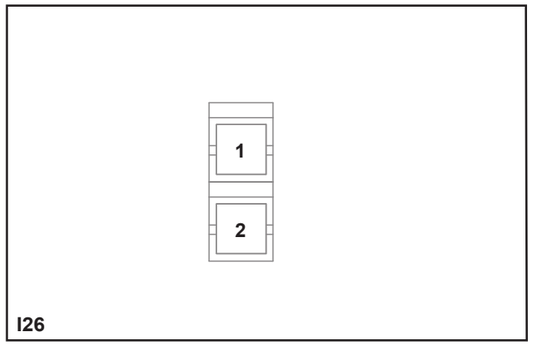


Instrument Harness Connector (I--)

I25 Pin Definition

Pin Number	Wire Width / Color	Function
1	0.50 G/Bl	Signal
2	0.50 G/Br	Ground
3		NC
4		NC

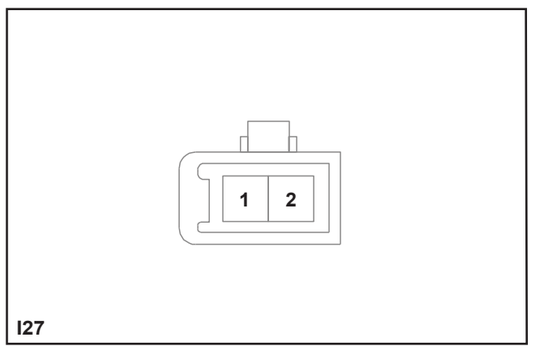
External Power Harness Connector



I26 Pin Definition

Pin Number	Wire Width / Color	Function
1	1.25 R/W	Power
2	1.25 B	Ground

Indoor Low-frequency Receiving Aerial Harness Connector

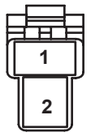


I27 Pin Definition

Pin Number	Wire Width / Color	Function
1	0.50 Gr/Bl	Power +
2	0.50 Br/V	Power -

Instrument Harness Connector (I--)

Left Saet Belt Switch Harness Connector



I28

I28 Pin Definition

Pin Number	Wire Width / Color	Function
1	0.50 G/Y	Signal
2	0.50 B	Ground

Left Saet Heating Harness Connector



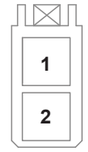
I29

I29 Pin Definition

Pin Number	Wire Width / Color	Function
1	0.50 Y/R	Left seat heating signal
2	0.85 B	Ground
3		NC
4	0.85 R	IG2 power

Instrument Harness Connector (I--)

Seat Adjustment Harness Connector

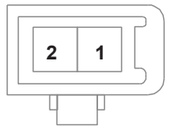


I30

I30 Pin Definition

Pin Number	Wire Width / Color	Function
1	1.25 R	Moter power+
2	1.25 B	Moter power-

Indoor Low-frequency Receiving Aerial Harness Connector



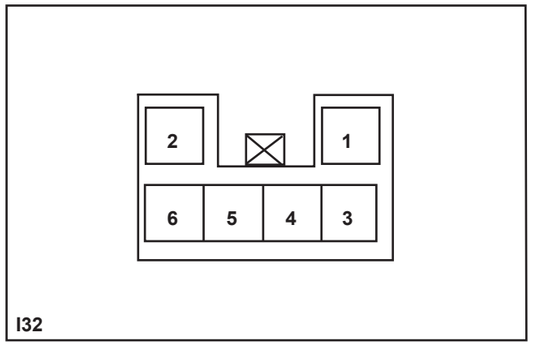
I31

I31 Pin Definition

Pin Number	Wire Width / Color	Function
1	0.50 Gr/G	Power
2	0.50 Gr/Y	Ground

Instrument Harness Connector (I--)

Warning Lamp Switch Connector

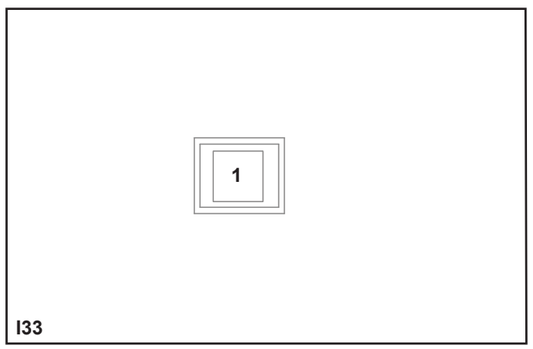


I32

I32 Pin Definition

Pin Number	Wire Width / Color	Function
1	0.50 Br	Ground
2	0.50 V	Background lighting lamp (+)
3	0.50 Y/G	Background lighting lamp (+)
4	0.85 W	Warning lamp switch signal
5		NC
6	0.50 Br	Ground

Sound System Receiving Aerial Harness Connector



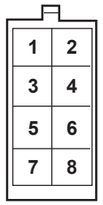
I33

I33 Pin Definition

Pin Number	Wire Width / Color	Function
1	0.50 R/W	Power

Instrument Harness Connector (I--)

Audio Control Connector

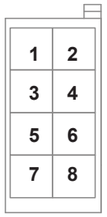


I34

I34 Pin Definition

Pin Number	Wire Width / Color	Function
1	0.50 V	Rear right speaker (+)
2	0.50 V/B	Rear right speaker (-)
3	0.50 O	Front right speaker (+)
4	0.50 O/B	Front right speaker (-)
5	0.50 W	Front left speaker (+)
6	0.50 W/B	Front left speaker (-)
7	0.50 Y	Rear left speaker (+)
8	0.50 Y/B	Rear left speaker (-)

Audio Control Harness Connector



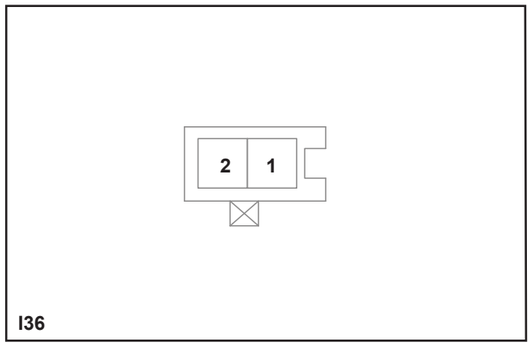
I35

I35 Pin Definition

Pin Number	Wire Width / Color	Function
1	0.50 G/V	Steering wheel switch (+)
2	0.50 G/W	Steering wheel switch (-)
3	0.85 R/W	Ignition switch power
4	0.50 V	Background lighting lamp (+)
5	0.85 R	Battery power
6	0.85 B	Ground
7	0.50 W	CAN-H
8	0.50 W/B	CAN-L

Instrument Harness Connector (I--)

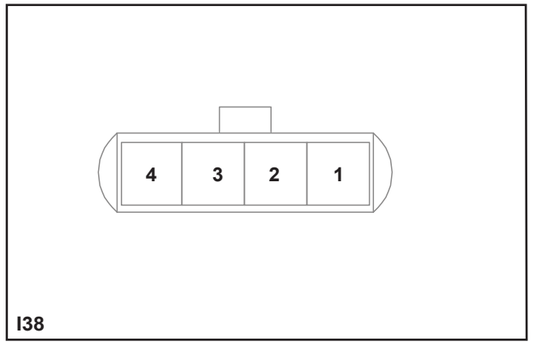
Solar Sensor Harness Connector



I36 Pin Definition Harness Connector

Pin Number	Wire Width / Color	Function
1	0.50 V/Y	Signal
2	0.50 W/Y	Ground

Rear Oxhgen Sensor

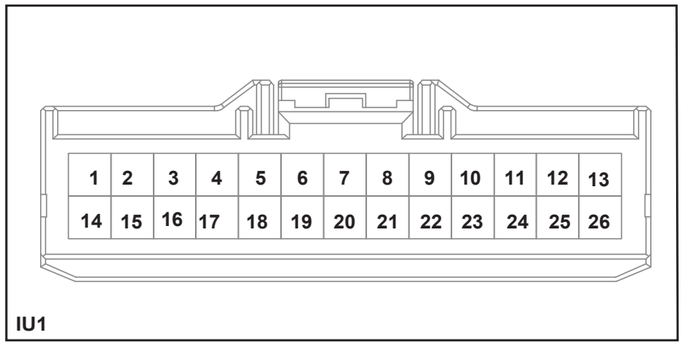


I38 Pin Definition

Pin Number	Wire Width / Color	Function
1	0.85 R/G	Heater power+
2	0.85 G/V	Heater power-
3	0.50 G/O	Signal
4	0.50 G/B	Ground

Instrument Harness Connector (I--)

I/P Harness to Engine Compertment Harness Connector

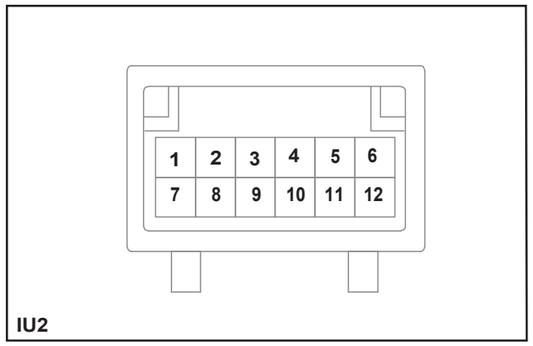


IU1 Pin Definition

Pin Number	Wire Width / Color	Function
1	0.50 Br/Y	Front washer motor (+)
2	1.25 Br/R	Low speed of wiper (+)
3	1.25 Br/G	Wiper high speed (+)
4	0.50 Br/W	Wiper return signal
5		NC
6	0.50 W/G	Engine hood switch signal
7	0.50 R	Cooling fan power supply
8	0.50 R/W	ABS ECU Power
9	0.50 Gr/R	Brake lamp switch signal
10	0.50 G/V	Brake fluid level sensor signal
11	0.50 V/G	Outdoor temperature sensor signal
12	0.50 W/Y	Outdoor temperature sensor (+)
13	0.85 Bl/Y	Dimming motor (+)
14		NC
15	1.25 R/Bl	fuel pump motor (+)
16	0.50 W/O	Horn control
17	0.50 W/R	Starter control
18	0.50 G/W	Front fog lamp control
19	0.50 G/Y	Low beam lamp control
20	0.50 G/Bl	High beam lamp control
21		NC
22	0.50 Y/W	Width lamp (+)
23	0.50 Y/R	Right turn signal lamp (+)
24	0.50 Y/G	Left turn signal lamp (+)
25		NC
26		NC

Instrument Harness Connector (I--)

I/P Harness to Engine Compartment Harness Connector



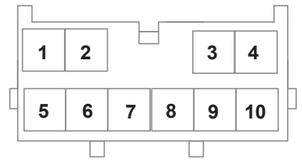
IU2

IU2 Pin Definition

Pin Number	Wire Width / Color	Function
1		NC
2		NC
3	0.50 Br	Rear right wheel speed sensor power
4	0.85 Br/B	Rear right wheel speed sensor signal
5	0.50 O	Rear left wheel speed sensor power
6	0.50 O/B	Rear left wheel speed sensor signal
7		NC
8	0.50 W	CAN-H
9	0.50 W/B	CAN-L
10		NC
11		NC
12		NC

Instrument Harness Connector (I--)

I/P Harness to Roof Harness Connector



IR1

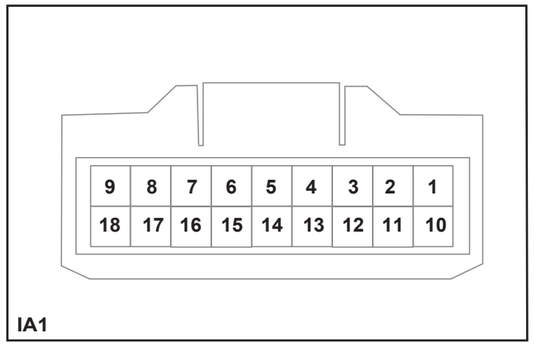
IR1 Pin Definition

Pin Number	Wire Width / Color	Function
1	0.50 G	Line
2	0.50 B	Ground
3	0.50 O/Bl	Ceiling door control switch actuating
4	0.50 B	Ground
5	0.50 R/W	Ceiling power
6	0.50 R/Bl	Sunroof ECU battery power
7	0.50 R	Sunroof ECU IG1 power
8		NC
9		NC
10		NC

Harness Connector View

Instrument Harness Connector (I--)

I/P Harness to A/C Harness Connector



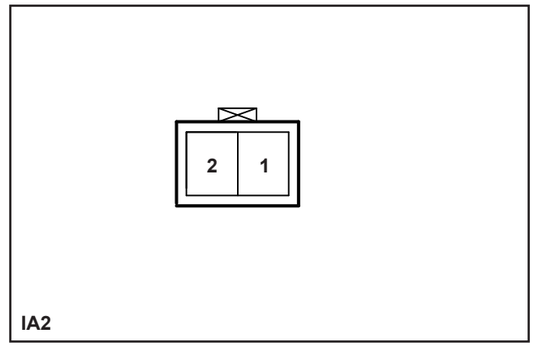
IA1

IA1 Pin Definition

Pin Number	Wire Width / Color	Function
1	0.50 R	ACC power
2	0.50 R/W	Battery power
3	0.50 O/R	Rear defroster signal
4	0.50 W	CAN-H
5	0.50 W/B	CAN-L
6	0.50 Y/G	A/C signal
7	0.50 Y/R	Front left seat heating signal
8	0.50 Y/W	Front right seat heating signal
9	0.50 V	Background light power
10	0.50 W/Y	Ground
11		
12	0.50 B	Ground
13		
14	0.50 V/G	Outdoor temperature sensor signal
15	0.50 V/Y	Solar sensor signal
16	0.50 V/W	Indoor temperature sensor signal
17		
18		

Instrument Harness Connector (I--)

I/P Harness to A/C Harness Connector



IA2

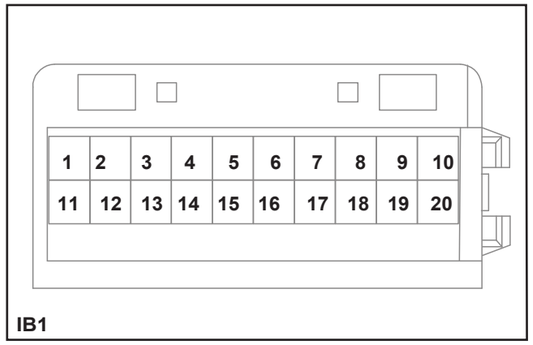
IA2 Pin Definition

Pin Number	Wire Width/Color	Function
1	3.00 R	Power
2		NC

Harness Connector View

Instrument Harness Connector (I--)

I/P Harness to Left Vehicle Body Harness Connector



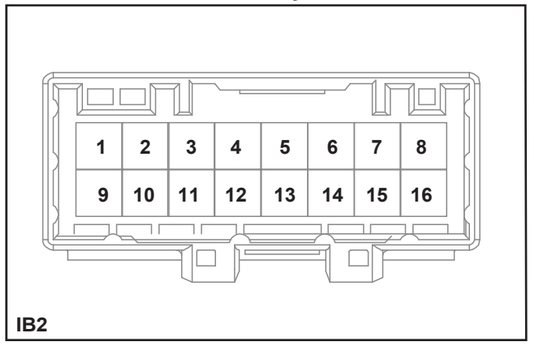
IB1

IB1 Pin Definition

Pin Number	Wire Width / Color	Function
1	0.50 G	LIN
2	0.50 W	CAN-H
3	0.50 W/B	CAN-L
4	0.50 V	Background light power
5	0.50 V/W	Right left door control switch signal
6	0.50 V/B	Front left door control switch signal
7	0.50 B	Ground
8	0.50 O/B	Sensor signal
9	0.50 O	Sensor (+)
10	0.50 G/Y	Trunk microswitch signal
11	0.50 Gr/O	Indoor rear receiving aerial (+)
12	0.50 Gr/B	Indoor rear receiving aerial (-)
13	0.50 Gr/Br	Trunk low-frequency magnetic field aerial(+)
14	0.50 Gr	Trunk low-frequency magnetic field aerial(-)
15	0.50 G/W	Fuel level signal
16		NC
17		NC
18		NC
19		NC
20		NC

Instrument Harness Connector (I--)

I/P Harness to Left Vehicle Body Harness Connector



IB2

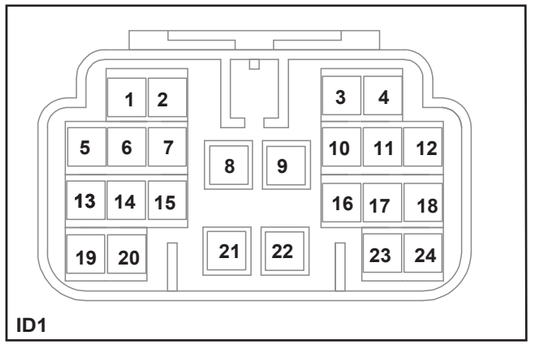
IB2 Pin Definition

Pin Number	Wire Width / Color	Function
1		NC
2		NC
3		NC
4		NC
5	0.50 Y/B	Rear left speaker (-)
6	0.50 Y	Rear left speaker (+)
7	0.50 V/B	Rear left speaker (-)
8	0.50 V	Rear left speaker (+)
9	1.25 R/Bl	Fuel pump motor (+)
10	2.00 W/R	Rear left defrostera and noise filter power
11	0.85 R/V	Tail door lock power
12	0.85 R/Br	Light control power
13		NC
14	0.85 R/Y	Rear BCM power
15	1.25 R	Rear left door control unit power
16	0.50 R/W	Rear left door control unit power

Harness Connector View

Instrument Harness Connector (I--)

I/P Harness to LF Door Harness Connector

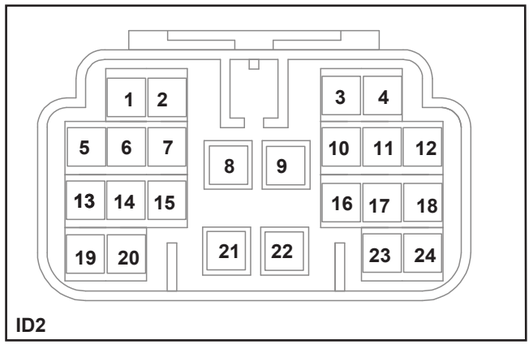


ID1 Pin Definition

Pin Number	Wire Width / Color	Function
1	0.50 B	Ground
2	0.50 G	LIN
3	0.50 V	Background light power
4	0.85 G/Br	Microswitch signal
5	0.50 Gr/W	Front left door handle aerial power-
6	0.50 Gr/R	Front left door handle aerial power+
7		NC
8	1.25 B	Ground
9	1.25 R/V	Front left door control unit's battery power
10		NC
11	0.50 W	Front left door speaker power+
12	0.50 W/B	Front left door speaker power-
13		NC
14		NC
15		NC
16	0.50 R/W	Front left door control unit's battery power
17	0.50 W/R	Front left power rearview mirror heating power+
18	0.50 Br/G	Front left power rearview mirror, turn left power+
19	0.50 Br/R	Front left power rearview mirror, turn up power+
20	0.50 Gr/V	Front left power rearview mirror, turn right & down power+
21		NC
22		NC
23		NC
24		NC

Instrument Harness Connector (I--)

I/P Harness to RF Door Harness Connector



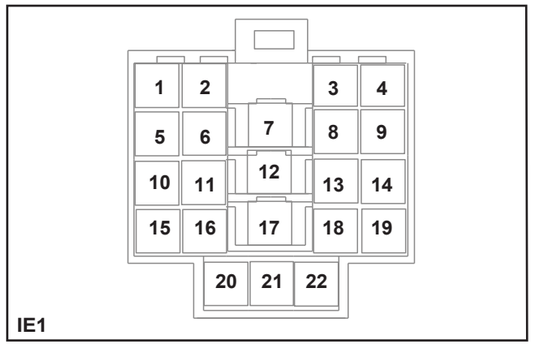
ID2 Pin Definition

Pin Number	Wire Width / Color	Function
1	0.50 B	Ground
2	0.50 G	LIN
3	0.50 V	Background light power
4		
5		
6		
7		
8	1.25 B	Ground
9	1.25 R/V	RF door control unit's battery power
10		
11	0.50 O	RF door speaker (+)
12	0.50 O/B	FR door speaker (-)
13		
14		
15		
16	0.50 R/W	RF door control unit's battery power
17	0.50 W/R	RF power rearview mirror heating power +
18	0.50 Gr/Y	RF power rearview mirror, turn left power +
19	0.S50 Br/W	RF power rearview mirror, turn up power +
20	0.50 Gr/V	RF power rearview mirror, turn right & down power +
21		
22		
23		
24		

Harness Connector View

Instrument Harness Connector (I--)

I/P Harness to Engine Harness Connector

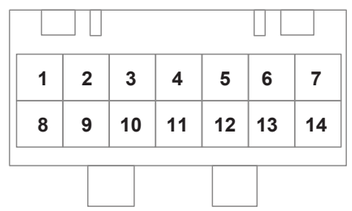


IE1 Pin Definition

Pin Number	Wire Width / Color	Function
1	0.50 W/B	CAN-L
2	0.50 W	CAN-H
3	0.50 Gr/G	K-Line
4	0.50 G/B	Ground
5	0.85 R/G	Main relay power supply
6		NC
7	0.50 O/G	Vehicle signal
8	0.50 R/W	VSS IG1 Power
9	0.85 G/V	Rear H_2OS heating(-)
10	0.50 G/O	Rear H_2OS signal
11		NC
12	0.85 W/R	Charging indication
13	0.50 G/Gr	Oil pressure signal
14	0.50 W/Bl	Reverse light switch signal
15	0.50 Y/G	A/C request signal
16	0.85 R/G	ECU ignition coil power
17	0.85 R	Generator power output
18		NC
19	0.50 Gr/W	Auxiliary brake signal
20	0.50 Gr/R	Main brake signal
21		NC
22		NC

Instrument Harness Connector (I--)

I/P Harness to Right Floor Harness Connector



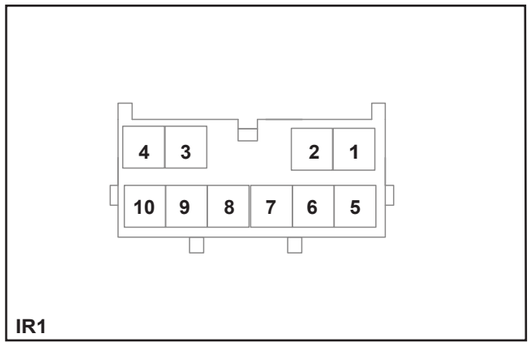
IF1 Pin Definition

Pin Number	Wire Width / Color	Function
1	1.25 R	Rear right door control unit's battery power
2	0.50 R/W	Rear right door control unit's battery power
3	0.50 G	LIN
4	0.50 V	Background lighting power
5	0.50 B	Ground
6	0.50 V/G	Rear right door control switch signal
7	0.50 V/R	Front right door control switch signal
8	0.50 Br/B	Sensor signal
9	0.50 Br	Power+
10		NC
11		NC
12		NC
13		NC
14		NC

Harness Connector View

Instrument Harness Connector (I--)

I/P Harness to Roof Harness 1 Connector

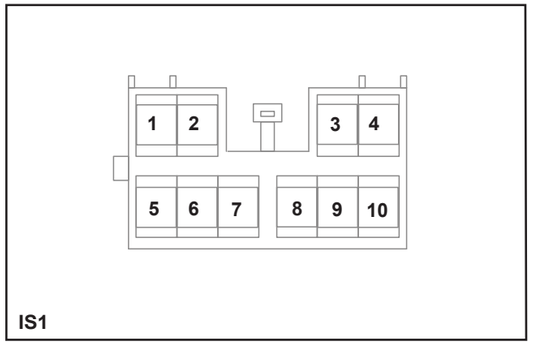


IR1 Pin Definition

Pin Number	Wire Width / Color	Function
1	0.50 G	LIN
2	0.50 B	Ground
3	0.50 O/Bl	Ceiling door control switch actuating
4	1.25 B	Ground
5	0.50 R/W	Ceiling power
6	1.25 R/Bl	Sunroof ECU battery power
7	0.50 R	Sunroof ECU IG1 power
8		NC
9		NC
10		NC
11		NC
12		NC

Instrument Harness Connector (I--)

I/P Harness to Airbag Harness Connector

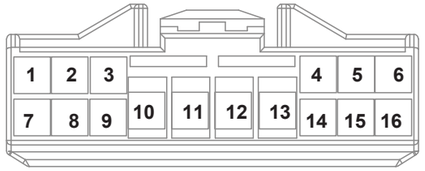


IS1 Pin Definition

Pin Number	Wire Width / Color	Function
1	0.85 W	CAN-H
2	0.85 W/B	CAN-L
3	0.85 R	IG1 power
4		NC
5		NC
6		NC
7		NC
8		NC
9		NC
10		NC

Instrument Harness Connector (I--)

I/P Compartment Central Control Harness Connector



I1A

I1A Pin Definition

Pin Number	Wire Width / Color	Function
1		NC
2		NC
3		NC
4	0.50 O/R	Defroster relay control
5		NC
6		NC
7		NC
8		NC
9		NC
10		NC
11	1.25 R	FBCM width lamp, turn signal lamp battery power
12		NC
13	2.00 W/R	Defroster relay output
14		NC
15		NC
16		NC

Instrument Harness Connector (I--)

I/P Compartment Central Control Harness Connector

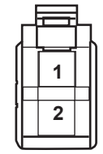


I1B

I1B Pin Definition

Pin Number	Wire Width / Color	Function
1	0.50 R	Power seat ACC main power

I/P Compartment Central Control Harness Connector



I1C

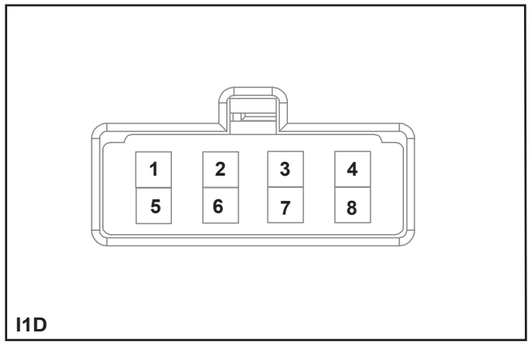
I1C Pin Definition

Pin Number	Wire Width / Color	Function
1		NC
2	3.00 R	Blower IG2 power

Harness Connector View

Instrument Harness Connector (I--)

I/P Compartment Central Control Harness Connector

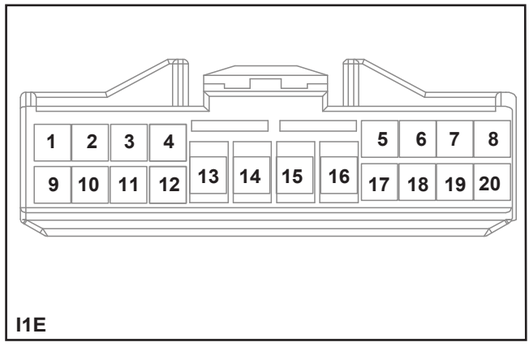


I1D Pin Definition

Pin Number	Wire Width / Color	
1		NC
2	2.00 R/Bl	Sunroof ECU battery power
3		NC
4		NC
5	1.25 R/V	RBCM tail lamp, trunk lamp battery power
6	1.25 R/Bl	Rear right door control unit's battery power
7	0.85 R/Br	RBCM tail lamp battery power
8		NC

Instrument Harness Connector (I--)

I/P Compartment Central Control Harness Connector



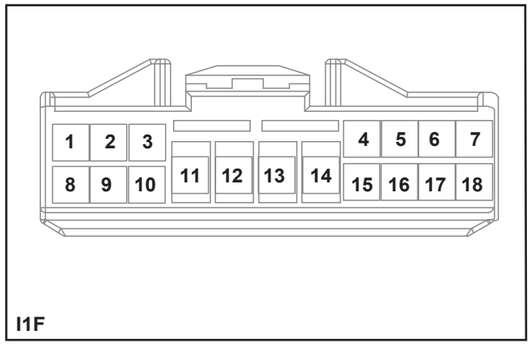
I1E Pin Definition

Pin Number	Wire Width / Color	Function
1		NC
2	0.85 R	Power rearview mirror ACC power
3		NC
4	0.50 W/Br	ACC relay control
5	0.85 R	Instrument cluster battery power supply
6		NC
7		NC
8		NC
9		NC
10	1.25 R	Cigarette lighter ACC power
11	0.85 R/W	Audio control unit ACC power
12	0.50 R	A/C control unit ACC power
13	0.50 R/W	Ceiling light battery power supply
14	0.50 R/W	A/C control unit's battery power supply
15	1.25 R	Rear left door control unit's battery power
16	1.25 R/V	Rear left door control unit, Rear left door lamp battery power
17		NC
18		NC
19		NC
20		NC

Harness Connector View

Instrument Harness Connector (I--)

I/P Central Control Harness Connector

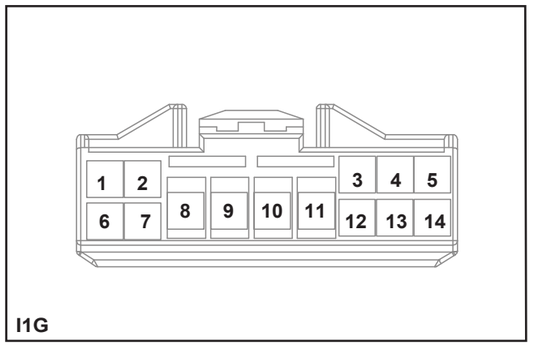


I1F Pin Definition

Pin Number	Wire Width / Color	Function
1		NC
2		NC
3	0.85 R	SRS ECU IG1 Power
4	0.85 R/W	Instrument, diagnosis interface IG1 power
5	0.50 W/Y	IG1 relay control
6	0.50 R	Sunroof ECU IG1 power supply
7		NC
8	0.50 R	Engine compartment central control box power
9		NC
10		NC
11	1.25 R/G	ECM IG1 Power
12	0.85 R	Generator IG1 power
13	2.00 R/W	FBCM wiper, washer battery power
14	1.25 R/V	Front left door control unit, Front left door lamp battery power
15	0.50 R/W	Door control unit's battery power supply
16	0.50 R	PEPS ECU battery power supply
17		NC
18		NC

Instrument Harness Connector (I--)

I/P Central Control Connector

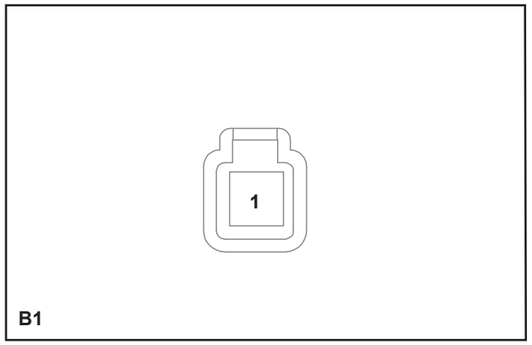


I1G Pin Definition

Pin Number	Wire Width / Color	Function
1		NC
2	0.50 R/Y	FBCM IG1 Power
3	0.85 R/Y	RBCM battery power
4		NC
5		NC
6	0.85 R	Seat heating IG2 power
7	0.50 W/G	IG2 relay control
8		NC
9	0.50 R/W	ABS ECU IG1 power
10	0.85 R	Audio control unit's battery power
11	1.25 R/W	On-board power
12	0.85 R/G	FBCM battery power
13		NC
14		NC

Body Harness Connector (B--)

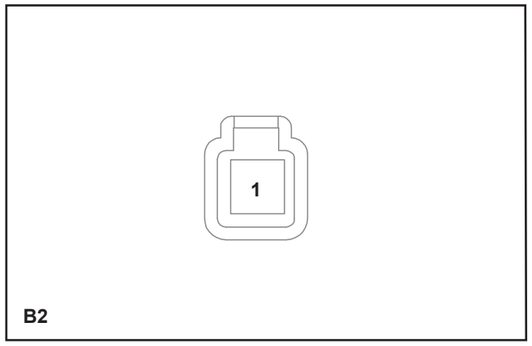
LF Door Lamp Switch Harness Connector



B1 Pin Definition

Pin Number	Wire Width / Color	Function
1	0.50 V/B	Door control switch signal

LR Door Lamp Switch Harness Connector

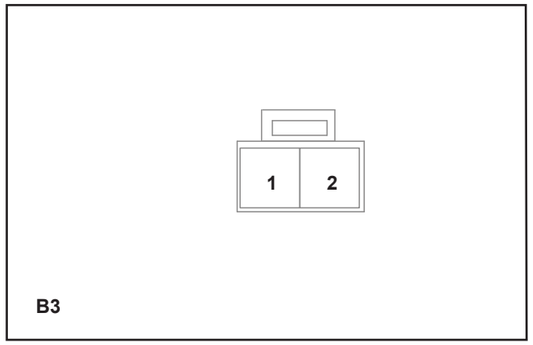


B2 Pin Definition

Pin Number	Wire Width / Color	Function
1	0.50 V/W	Door control switch signal

Body Harness Connector (B--)

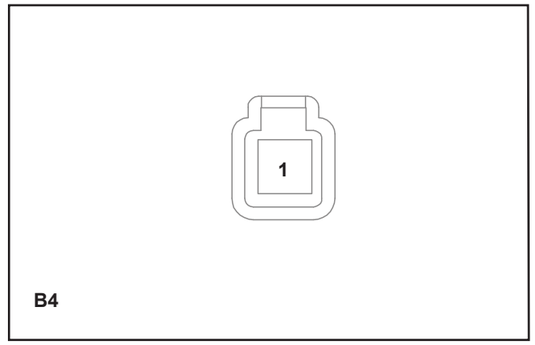
Noise Filter Harness Connector



B3 Pin Definition

Pin Number	Wire Width / Color	Function
1	0.50 W/R	Power
2		NC

Rear Defroster Harness Connector

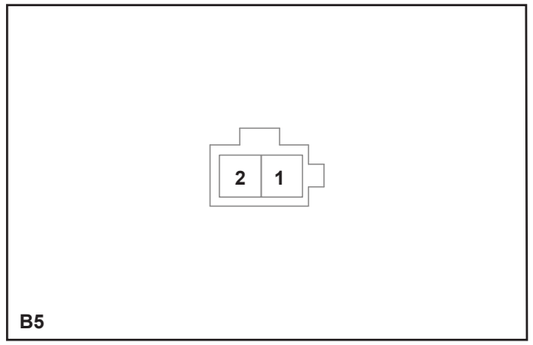


B4 Pin Definition

Pin Number	Wire Width / Color	Function
1	2.00 W/R	Power

Body Harness Connector (B--)

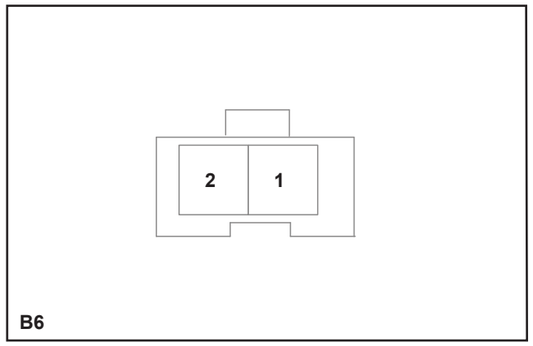
LR Speaker Harness Connector



B5 Pin Definition

Pin Number	Wire Width / Color	Function
1	0.50 Y/B	Speaker power -
2	0.50 Y	Speaker power +

High-mounted Brake Lamp Harness Connector

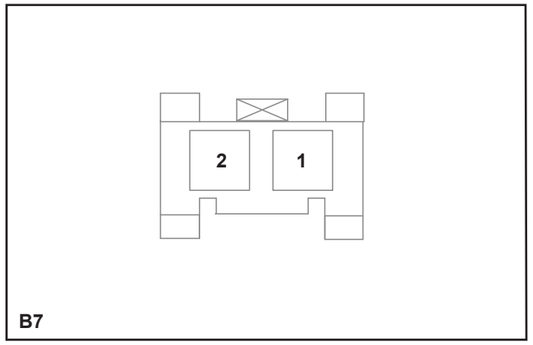


B6 Pin Definition

Pin Number	Wire Width / Color	Function
1	0.50 Bl/G	High-mounted brake lamp power +
2	0.50 B	High-mounted brake lamp power -

Body Harness Connector (B--)

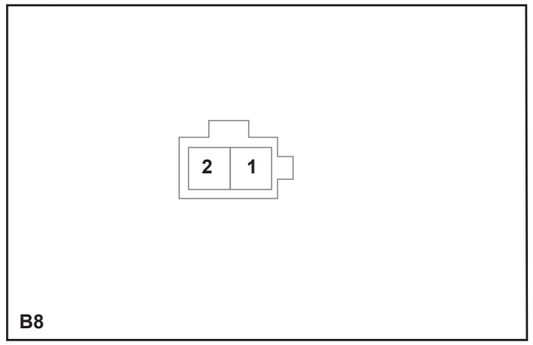
Trunk Lamp Harness Connector



B7 Pin Definition

Pin Number	Wire Width / Color	Function
1	0.50 G/W	Trunk lamp power -
2	0.50 R/V	Trunk lamp power +

RR Speaker Harness Connector



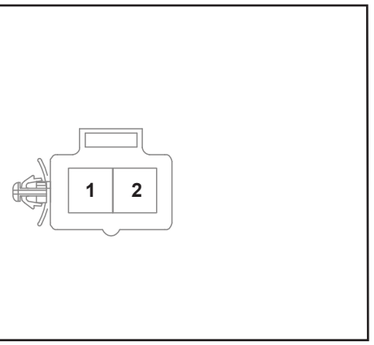
B8 Pin Definition

Pin Number	Wire Width / Color	Function
1	0.50 V/B	Rear right speaker power -
2	0.50 V	Rear right speaker power +

Harness Connector View

Body Harness Connector (B--)

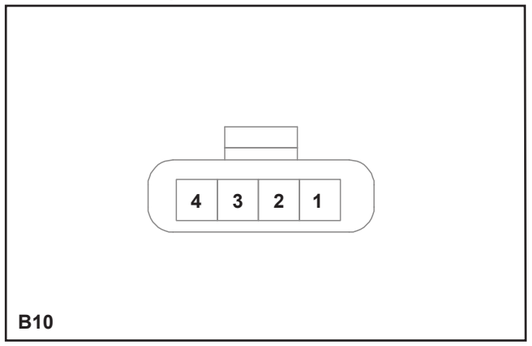
LR Wheel Speed Sensor Harness Connector



B9 Pin Definition

Pin Number	Wire Width / Color	Function
1	0.50 O/B	Signal
2	0.50 O	Power

Electric Fuel Pump Harness Connector

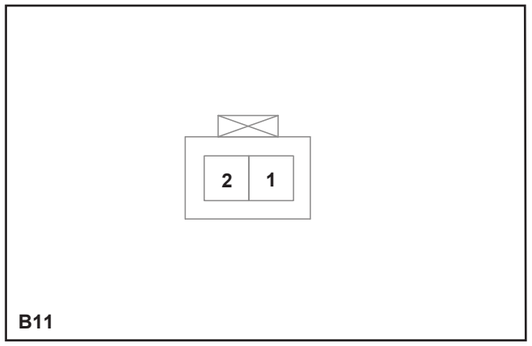


B10 Pin Definition

Pin Number	Wire Width / Color	Function
1	1.25 R/Bl	Fuel pump motor power+
2	0.50 G/W	Fuel sensor power+
3	0.50 B	Fuel sensor power-
4	1.25 B	Fuel pump motor power-

Body Harness Connector (B--)

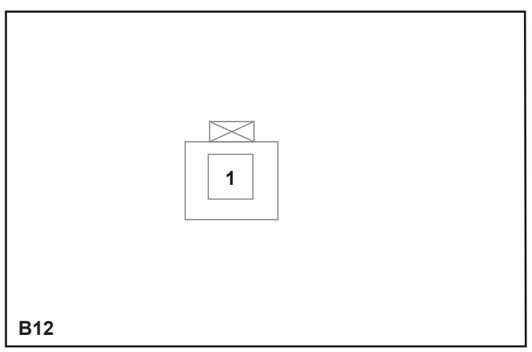
Indoor Rear Receiving Aerial Harness Connector



B11 Pin Definition

Pin Number	Wire Width / Color	Function
1	0.50 Gr/O	Power +
2	0.50 Gr/B	Power -

Rear Defroster Ground Harness Connector



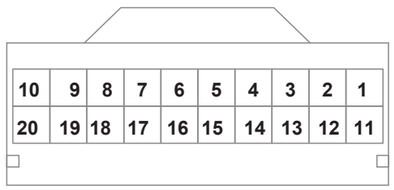
B12 Pin Definition

Pin Number	Wire Width / Color	Function
1	0.50 B	Ground

Harness Connector View

Body Harness Connector (B--)

Body Harness to I/P Harness Harness Connector



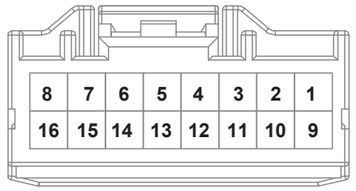
BI1

BI1 Pin Definition

Pin Number	Wire Width / Color	Function
1	0.50 G	LIN
2	0.50 W	CAN-H
3	0.50 W/B	CAN-L
4	0.50 V	Background light power
5	0.50 V/W	Rear left door control switch signal
6	0.50 V/B	Front left door control switch signal
7	0.50 B	Ground
8	0.50 O/B	Sensor signal
9	0.50 O	Sensor power+
10	0.50 G/Y	Trunk microswitch signal
11	0.50 Gr/O	Indoor rear receiving aerial power+
12	0.50 Gr/B	Indoor rear receiving aerial power-
13	0.50 Gr/Br	Trunk low-frequency magnetic field aerial power+
14	0.50 Gr	Trunk low-frequency magnetic field aerial power-
15	0.50 G/W	Fuel level signal
16		NC
17		NC

Body Harness Connector (B--)

Body Harness to I/P Harness Harness Connector



BI2

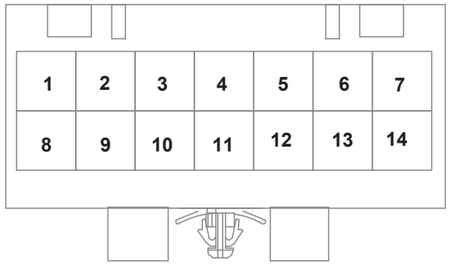
BI2 Pin Definition

Pin Number	Wire Width / Color	Function
1		NC
2		NC
3		NC
4		NC
5	0.50 Y/B	Rear left speaker power-
6	0.50 Y	Rear left speaker power+
7	0.50 V/B	Rear left speaker power-
8	0.50 V	Rear left speaker power+
9	1.25 R/Bl	Fuel pump motor power-
10	2.00 W/R	Right left defrostor,noise filter power
11	0.85 R/V	Tail door lock power
12	0.85 R/Br	Light control power
13		
14	0.85 R/Y	Rear BCM power
15	1.25 R	Rear left door control unit power
16	0.50 R/W	Rear left door control unit power

Harness Connector View

Body Harness Connector (B--)

Body Harness to Rear Vehicle Body Harness Connector



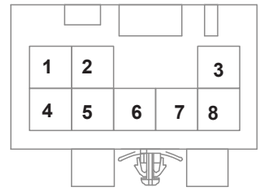
BH1

BH1 Pin Definition

Pin Number	Wire Width / Color	Function
1	0.50 W	CAN_H
2	0.50 W/B	CAN_L
3		NC
4	0.85 R/Y	Rear BCM power
5	0.85 R/Br	Light control power
6	0.85 R/V	Tail door lock power
7	0.50 G/W	Trunk switch
8	0.50 Bl/G	High-mounted brake lamp power+
9	0.50 Y	Trunk release motor power+
10	0.50 Bl/W	License plate lamp power+
11	0.50 Gr/Br	Trunk lowifrequency magnetic field aerial power+
12	0.50 Gr	Trunk lowifrequency magnetic field aerial power-
13		NC
14		NC

Body Harness Connector (B--)

Body Harnsee to LR Door Harnsee Connector

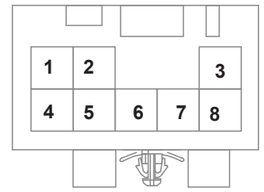


BD1

BD1 Pin Definition

Pin Number	Wire Width / Color	Function
1	0.50 B	Ground
2	0.50 R/W	Right left door control unit's battery power
3	0.50 G	LIN
4		NC
5		NC
6	1.25 B	Ground
7	1.25 R	Rear left door control unit's battery power
8	0.50 V	Background light power

Body Harnsee to Tail Door Harness Connector



BL1

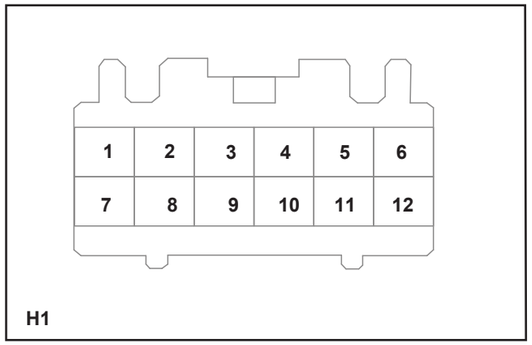
BL1 Pin Definition

Pin Number	Wire Width / Color	Function
1	0.50 B	Ground
2	0.50 B	Ground
3	0.50 G/Y	Trunk microswitch signal
4		NC
5		NC
6	0.50 G/W	Trunk release on/off signal
7	0.50 Y	Trunk release motor (+)
8	0.50 Bl/W	License plate lamp (+)

Harness Connector View

Rear Body Harness Connector (H--)

Rear BCM Control Connector

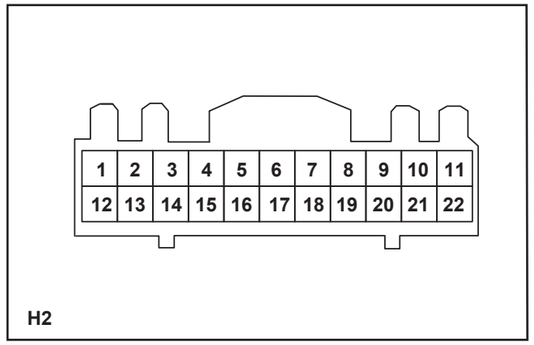


H1 Pin Definition

Pin Number	Wire Width / Color	Function
1	0.85 R/V	Tail door lock power
2	0.50 Bl/Y	Width lamp
3	0.50 Bl/Gr	Brake lamp
4	0.50 G/W	Rear right steering lamp
5	0.50 G/Bl	Rear left steering lamp
6	0.85 R/Br	Light control power
7		NC
8	0.85 Bl/V	Rear fog lamp
9	0.50 Bl/G	High-mounted brake lamp
10	0.85 B	Ground
11	0.50 Bl/W	License plate lamp
12	0.50 Bl/R	Reverse light

Rear Body Harness Connector (H--)

Rear BCM Control Body Harnsee

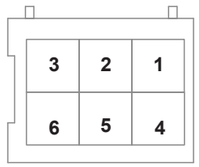


H2 Pin Definition

Pin Number	Wire Width / Color	Function
1	0.85 R/Y	Power
2		NC
3		NC
4		NC
5	0.50 G/Bl	Reverse radar probe power
6	0.50 G/V	Left reverse radar probe signal
7		NC
8	0.50 W	CAN-H
9	0.50 W/B	CAN-L
10	0.50 G/W	Trunk switch
11	0.50 Y	Trunk release motor
12	0.85 B	Ground
13		NC
14		NC
15		NC
16		NC
17	0.50 G/B	Reverse radar probe grounding
18	0.50 G/O	Right reverse radar probe signal
19		NC
20		NC
21		NC
22	0.50 G/W	Anti-theft alarm system

Rear Body Harness Connector (H--)

Left Tail Lamp Connector

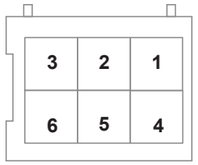


H3

H3 Pin Definition

Pin Number	Wire Width / Color	Function
1	0.50 G/Bl	Rear left steering lamp power+
2	0.85 B	Ground
3	0.50 Bl/Y	Rear left width beam power+
4	0.85 Bl/V	Rear left fog lamp power+
5	0.50 Bl/Gr	Left brake lamp power+
6	0.50 Bl/R	Left reverse light power+

Rignt Tail Lamp Connector



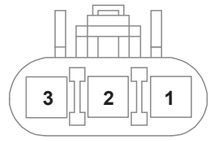
H5

H5 Pin Definition

Pin Number	Wire Width / Color	Function
1	0.85 G/W	Rear right steering lamp (+)
2	0.85 B	Ground
3	0.50 Bl/Y	Rear right width beam (+)
4	0.85 Bl/V	Rear right fog lamp
5	0.50 Bl/Gr	Right brake lamp (+)
6	0.50 Bl/R	Right reverse light (+)

Rear Body Harness Connector (H--)

Body Harness to Anti-theft alarm system Connector



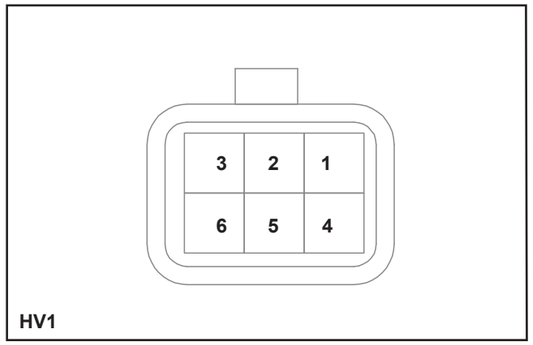
H6

H6 Pin Definition

Pin Number	Wire Width / Color	Function
1	0.50 G/W	Warning device (+)
2		NC
3	0.50 B	Warning device (-)

Rear Body Harness Connector (H--)

Rear Body Harness to Reverse Radar Harness Connector

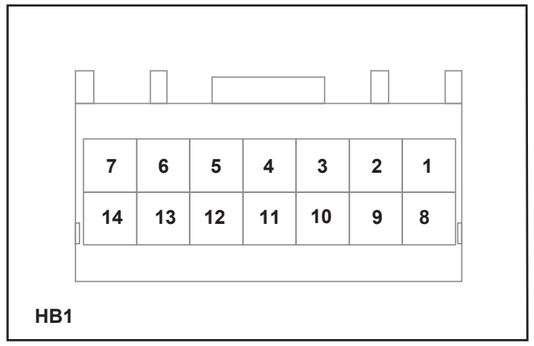


HV1 Pin Definition

Pin Number	Wire Width / Color	Function
1	0.50 G/V	Left reverse radar probe signal
2	0.50 G/O	Right reverse radar probe signal
3	0.50 G/Bl	Reverse radar probe power
4	0.50 G/B	Reverse radar probe grounding
5	0.50 Gr/Br	Trunk aerial (+)
6	0.50 Gr	Trunk aerial (-)

Rear Body Harness Connector (H--)

Rear Body to Vehicle Body Harness Connector



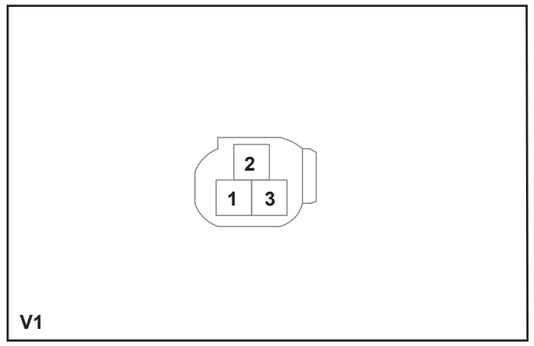
HB1 Pin Definition

Pin Number	Wire Width / Color	Function
1	0.50 W	CAN-H
2	0.50 W/B	CAN-L
3		NC
4	0.85 R/Y	Rear BCM power
5	0.85 R/Br	Light control power supply
6	0.85 R/V	Tail door lock power supply
7	0.50 G/W	Trunk switch
8	0.50 Bl/G	High-mounted brake lamp (+)
9	0.50 Y	Trunk release motor (+)
10	0.50 Bl/W	License plate lamp (+)
11	0.50 Gr/Br	Trunk low-frequency magnetic field aerial power+
12	0.50 Gr	Trunk low-frequency magnetic field aerial power-
13		NC
14		NC

Harness Connector View

Reverse Radar Harness Connector (V--)

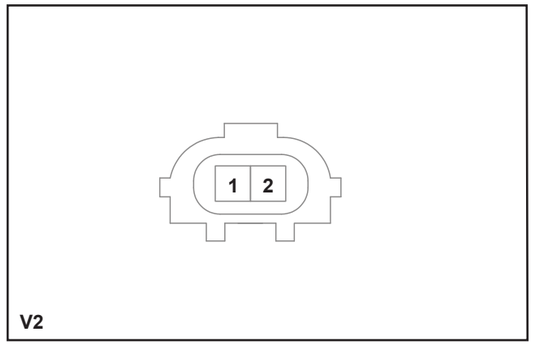
Reverse Radar Probe Harness Connector



V1 Pin Definition

Pin Number	Wire Width / Color	Function
1	0.50 G/Bl	Left reverse radar probe (+)
2	0.50 G/V	Left reverse radar probe signal
3	0.50 G/B	Left reverse radar probe (-)

Trunk Low-Frequency Magnetic Field Harness Connector

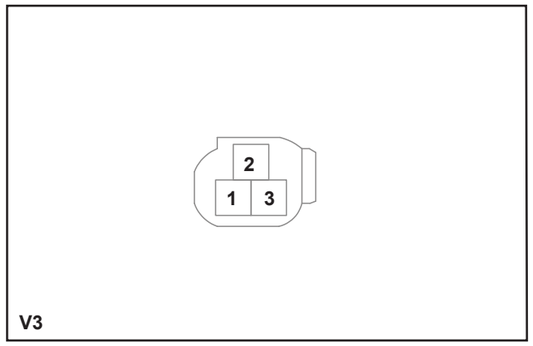


V2 Pin Definition

Pin Number	Wire Width / Color	Function
1	0.50 Gr/Br	Power +
2	0.50 Gr	Power -

Reverse Radar Harness Connector (V--)

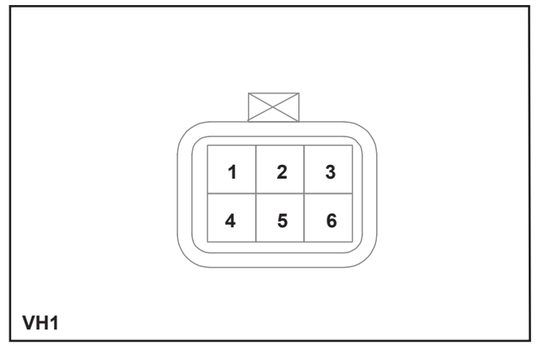
Reverse Radar Probe Harness Connector



V3 Pin Definition

Pin Number	Wire Width / Color	Function
1	0.50 G/Bl	Right reverse radar probe (+)
2	0.50 G/O	Right reverse radar probe signal
3	0.50 G/B	Right reverse radar probe (-)

Reverse Radar Harness to Rear Vehicle Body Harness Connector



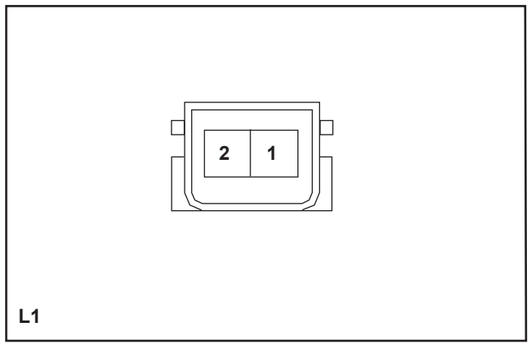
VH1 Pin Definition

Pin Number	Wire Width / Color	Function
1	0.50 G/V	Left reverse radar probe signal
2	0.50 G/O	Right reverse radar probe signal
3	0.50 G/Bl	Reverse radar probe power
4	0.50 G/B	Reverse radar probe grounding
5	0.50 Gr/Br	Trunk aerial (+)
6	0.50 Gr	Trunk aerial (-)

Harness Connector View

Tail Door Harness Connector (L--)

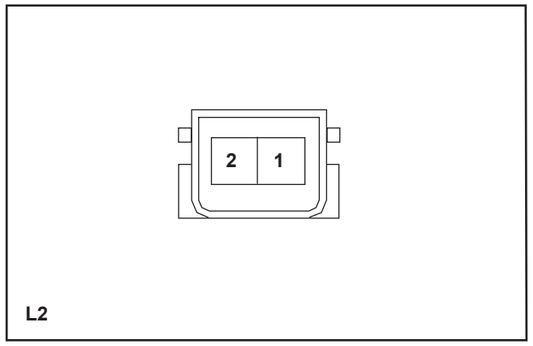
Left License Plate Lamp Harness Connector



L1 Pin Definition

Pin Number	Wire Width / Color	Function
1	0.50 B	Power -
2	0.50 Bl/W	Power +

Right License Plate Lamp Harness Connector

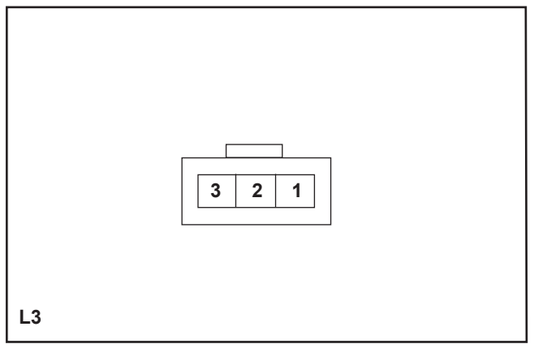


L2 Pin Definition

Pin Number	Wire Width / Color	Function
1	0.50 B	Power -
2	0.50 Bl/W	Power +

Tail Door Harness Connector (L--)

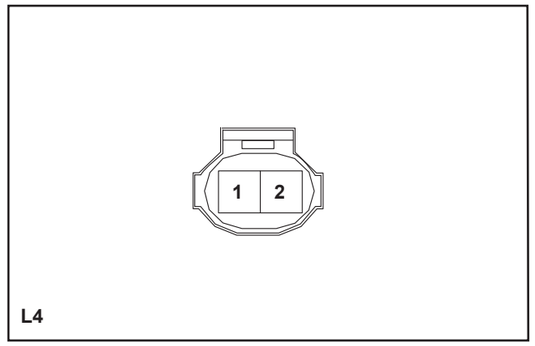
Trunk Release Motor Harness Connector



L3 Pin Definition

Pin Number	Wire Width / Color	Function
1	0.50 G/W	Trunk release on/off signal
2	0.50 Y	Motor power +
3	0.50 B	Motor power -

Trunk Microswitch Harness Connector

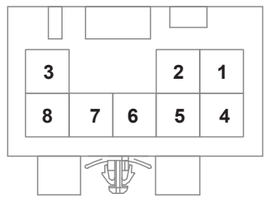


L4 Pin Definition

Pin Number	Wire Width / Color	Function
1	0.50 G/Y	Trunk microswitch signal
2	0.50 B	Ground

Tail Door Harness Connector (L--)

Tail Door Harness to Body Harness Connector



LB1

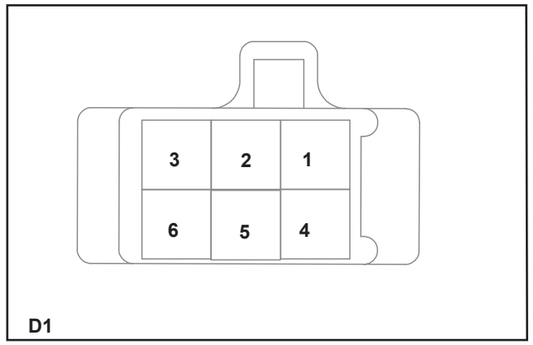
LB1 Pin Definition

Pin Number	Wire Width / Color	Function
1	0.50 B	Ground
2	0.50 B	Ground
3	0.50 G/Y	Trunk microswitch signal
4		-
5		-
6	0.50 G/W	Trunk release on/off signal
7	0.50 Y	Trunk release motor power -
8	0.50 Bl/W	License plate lamp power +

Harness Connector View

Door Harness Connector (D--)

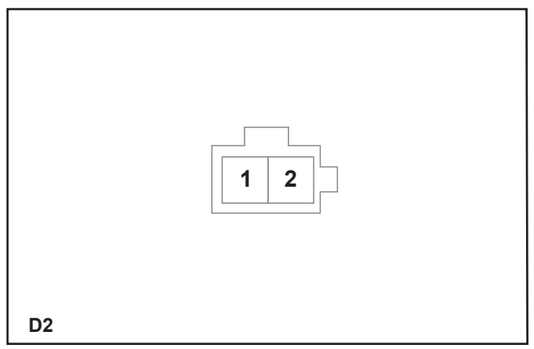
LF Power Rearview Mirror Harness Connector



D1 Pin Definition

Pin Number	Wire Width / Color	Function
1	0.50 Br/G	Rearview mirror, turn left power+
2	0.50 W/R	Rearview mirror heating power+
3		NC
4	0.50 Br/R	Rearview mirror, turn up power+
5	0.50 Gr/V	Rearview mirror, turn right & down power+
6	0.50 B	Rearview mirror heating power-

Left Front Alt Speaker Harness Connector

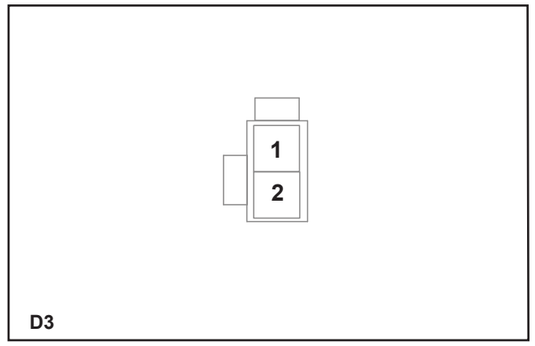


D2 Pin Definition

Pin Number	Wire Width / Color	Function
1	0.50 W/B	LF alt speaker power-
2	0.50 W	LF alt speaker power+

Door Harness Connector (D--)

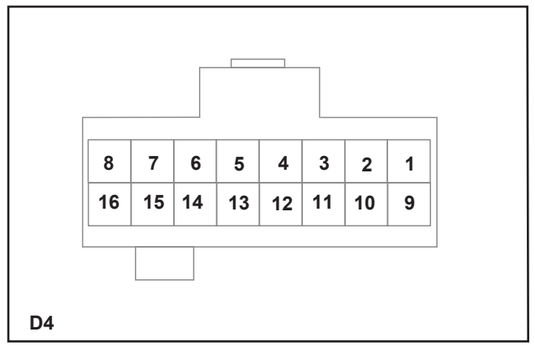
Left Front Door Speaker Harness Connector



D3 Pin Definition

Pin Number	Wire Width / Color	Function
1	0.50 W	Power+
2	0.50 W/B	Power-

Left Front Door Control Unit Harness Connector



D4 Pin Definition

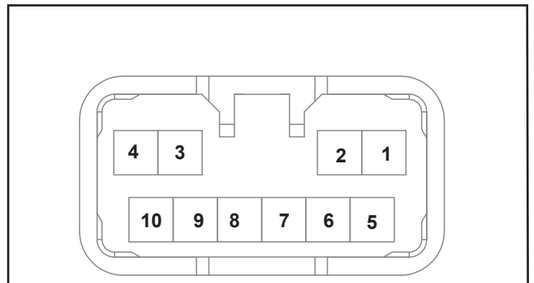
Pin Number	Wire Width / Color	Function
1		NC
2		NC
3		NC
4		NC
5		NC
6		NC
7		NC
8		NC
9	0.50 R/W	Battery power
10	0.50 B	GND
11	0.50 G	LIN

Door Harness Connector (D--)

D4 Pin Definition

Pin Number	Wire Width / Color	Function
12	0.50 V	Background lighting lamp power+
13	0.50 O/Br	Key unlock
14	0.50 O/V	Key lock
15	0.50 O/G	Door open reminder signal
16	0.50 G/W	Door lamp control

LF Door Control Unit Harness Connector

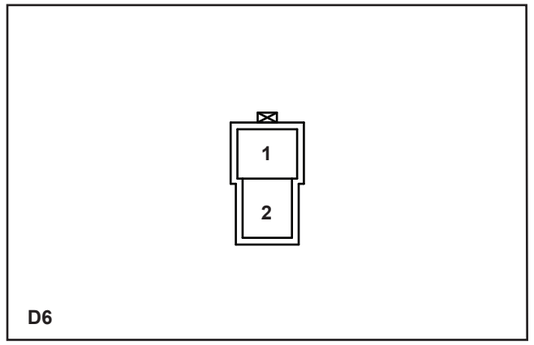


D5 Pin Definition

Pin Number	Wire Width / Color	Function
1		NC
2		NC
3		NC
4		NC
5	0.85 O/W	Unlock
6	0.85 O/R	Lock
7	1.25 B	Ground
8	1.25 R/V	Battery power
9	1.25 W/B	Glass lower
10	1.25 W/R	Glass lift

Door Harness Connector (D--)

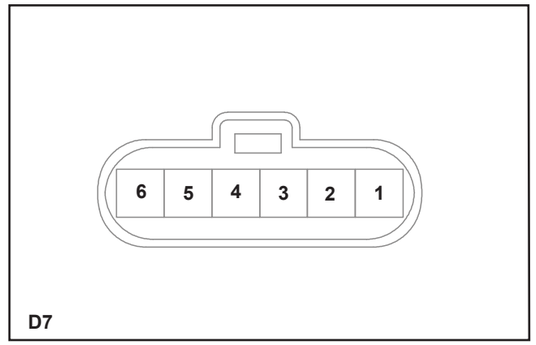
LF Door Window Motor Harness Connector



D6 Pin Definition

Pin Number	Wire Width / Color	Function
1	1.25 W/R	Glass lift power+
2	1.25 W/B	Glass lower power+

LF Door Central Lock Harness Connector

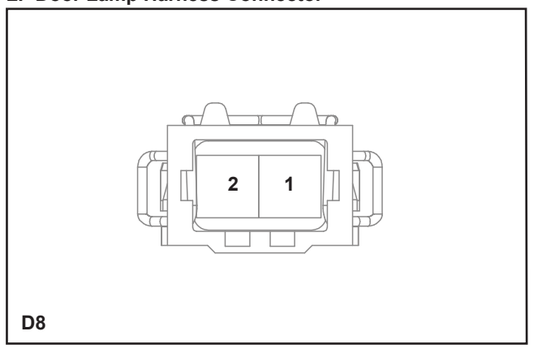


D7 Pin Definition

Pin Number	Wire Width / Color	Function
1	0.50 O/Br	Key unlock
2	0.50 O/V	Key lock
3	0.50 O/G	Door open reminder switch
4	0.50 B	Gronud
5	0.85 O/W	Unlock
6	0.85 O/R	Lock

Door Harness Connector (D--)

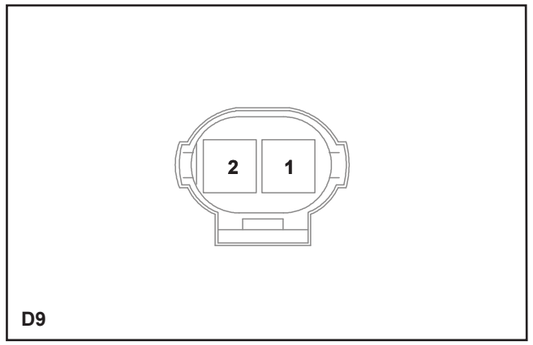
LF Door Lamp Harness Connector



D8 Pin Definition

Pin Number	Wire Width / Color	Function
1	1.25 R/V	Step lamp power-
2	0.50 G/W	Step lamp power+

Door Handle Low-frequency Magnetic field aerial Harness Connector

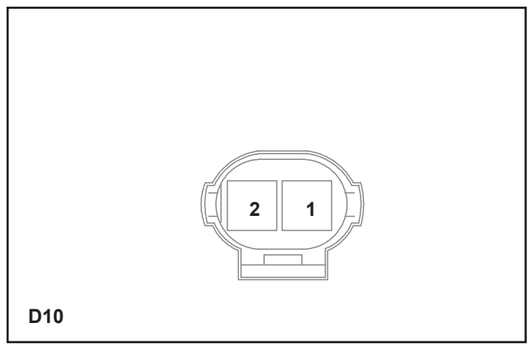


D9 Pin Definition

Pin Number	Wire Width / Color	Function
1	0.50 Gr/R	Antenna power+
2	0.50 Gr/W	Antenna power-

Door Harness Connector (D--)

Door Handle Microswitch Harness Connector



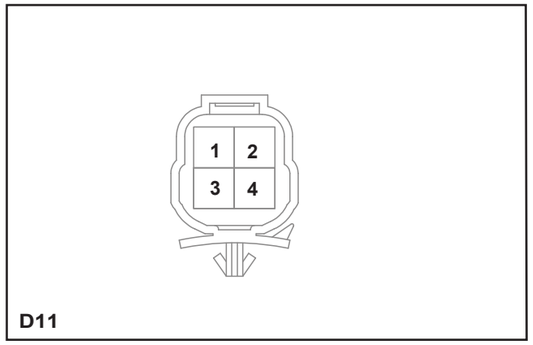
D10 Pin Definition

Pin Number	Wire Width / Color	Function
1	0.85 G/Br	Signal
2	0.50 B	Ground

Harness Connector View

Door Harness Connector (D--)

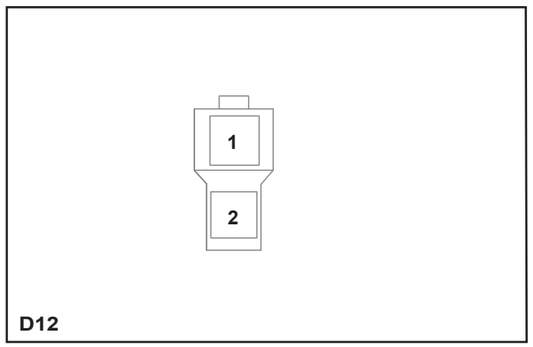
RF Door Central Lock Harness Connector



D11 Pin Definition

Pin Number	Wire Width / Color	Function
1	0.85 O/W	Unlock power+
2	0.85 O/R	Lockout power+
3		NC
4		NC

RF Door Window Motor Connector

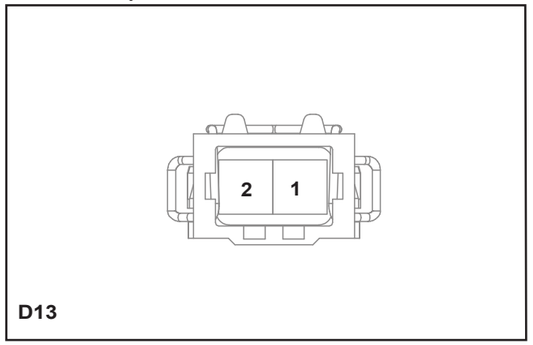


D12 Pin Definition

Pin Number	Wire Width / Color	Function
1	1.25 W/R	Glass lift power+
2	1.25 W/B	Glass lower power+
		NC
		NC

Door Harness Connector (D--)

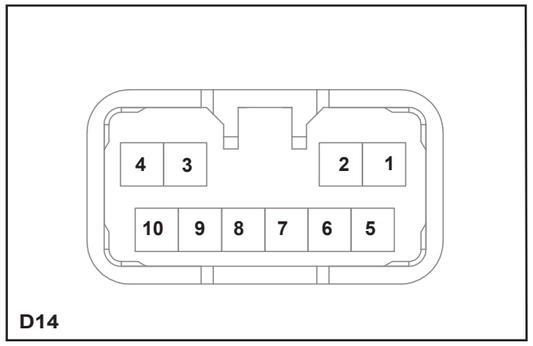
RF Door Lamp Harness Connector



D13 Pin Definition

Pin Number	Wire Width / Color	Function
1	0.50 G/W	Step lamp power-
2	0.50 R/V	Step lamp power+

RF Door Control Unit Harness Connector

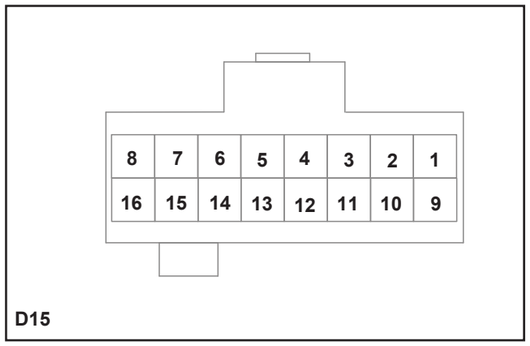


D14 Pin Definition

Pin Number	Wire Width / Color	Function
1		NC
2		NC
3		NC
4		NC
5	1.25 W/R	Glass lift
6	1.25 W/B	Glass lower
7	1.25 R/V	Battery power
8	1.25 B	Ground
9	0.85 O/R	Lock
10	0.85 O/W	Unlock

Door Harness Connector (D--)

RF Door Control Unit Harness Connector

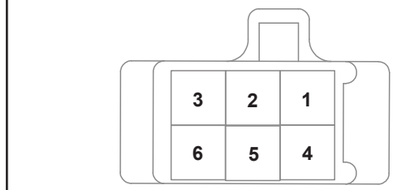


D15 Pin Definition

Pin Number	Wire Width / Color	Function
1		
2		NC
3		NC
4		NC
5		NC
6		NC
7		NC
8		NC
9	0.50 R/W	Battery power
10	0.50 B	Ground
11	0.50 G	LIN
12	0.50 V	Background lighting lamp (+)
13	0.50 G/W	Front right door lamp control
14		NC
15		NC
16		NC

Door Harness Connector (D--)

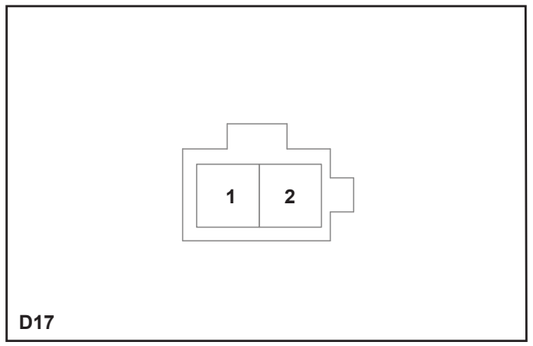
RF Power Reaview Mirror Harness Connector



D16 Pin Definition

Pin Number	Wire Width / Color	Function
1	0.50 Gr/Y	Rearview mirror, turn left power+
2	0.50 W/R	Rearview mirror heating power+
3		NC
4	0.50 Br/W	Rearview mirror, turn up power+
5	0.50 Gr/V	Rearview mirror, turn right & down power+
6	0.85 B	Rearview mirror heating power-

RF Alt Speaker Harness Connector

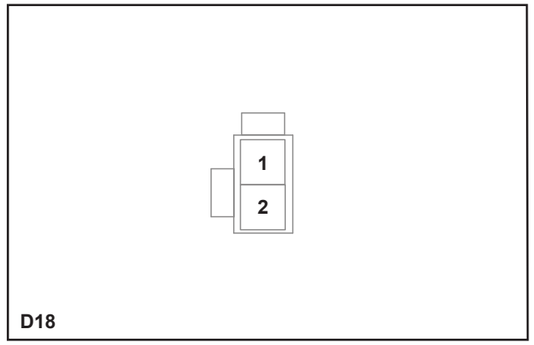


D17 Pin Definition

Pin Number	Wire Width / Color	Function
1	0.50 O/B	Front right alt speaker power-
2	0.50 O	Front right alt speaker power+

Door Harness Connector (D--)

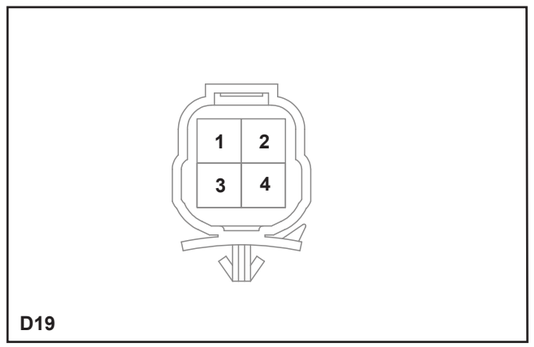
RF Door Speaker Harness Connector



D18 Pin Definition

Pin Number	Wire Width / Color	Function
1	0.50 O	Power+
2	0.50 O/B	Power-

LR Door Central Lock Harness Connector

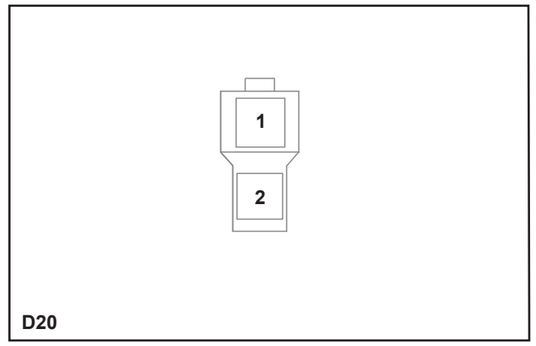


D19 Pin Definition

Pin Number	Wire Width / Color	Function
1	0.85 O/W	Unlock
2	0.85 O/R	Lock
3		NC
4		NC

Door Harness Connector (D--)

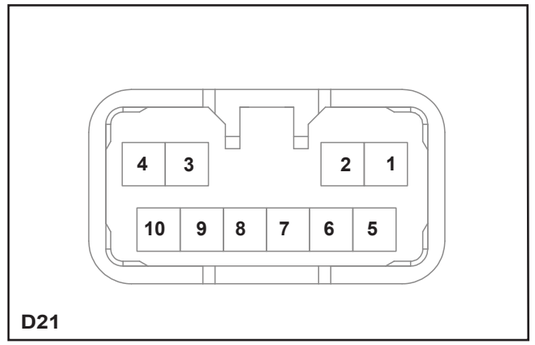
LR Door Central Lock Harness Connector



D20 Pin Definition

Pin Number	Wire Width / Color	Function
1	1.25 W/R	Glass lift power+
2	1.25 W/B	Glass lower power+

LR Door Control Unit Harness Connector



D21 Pin Definition

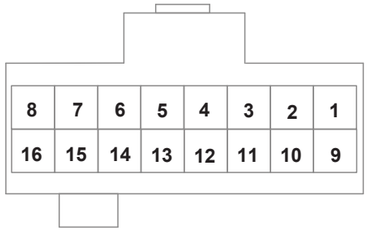
Pin Number	Wire Width / Color	Function
1		NC
2		NC
3		NC
4		NC
5	1.25 W/R	Glass lift
6	1.25 W/B	Glass lower

Door Harness Connector (D--)

D21 Pin Definition

Pin Number	Wire Width / Color	Function
7	1.25 R	Battery power
8	1.25 B	Ground
9	0.85 O/R	Lock
10	0.85 O/W	Unlock

LR Door Control Unit Harness Connector



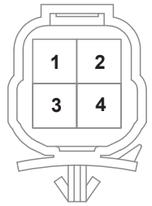
D22

D22 Pin Definition

Pin Number	Wire Width / Color	Function
1		NC
2		NC
3		NC
4		NC
5		NC
6		NC
7		NC
8		NC
9	1.25 R	Battery power
10	0.50 B	Ground
11	0.50 G	LIN
12	0.50 V	Background lighting lamp power+
13		NC
14		NC
15		NC
16		NC

Door Harness Connector (D--)

RR Door Central Lock Harness Connector

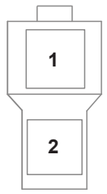


D23

D23 Pin Definition

Pin Number	Wire Width / Color	Function
1	0.85 O/W	Unlock
2	0.85 O/R	Lockout
3		NC
4		NC

RR Door Window Motor Harness Connector



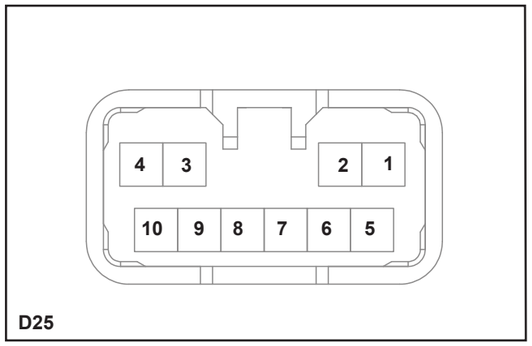
D24

D24 Pin Definition

Pin Number	Wire Width / Color	Function
1	1.25 W/R	Glass lift power+
2	1.25 W/B	Glass lower power+

Door Harness Connector (D--)

RR Door Control Unit Harness Connector



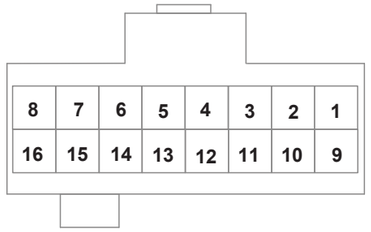
D25

D25 Pin Definition

Pin Number	Wire Width / Color	Function
1		NC
2		NC
3		NC
4		NC
5	1.25 W/R	Glass lift
6	1.25 W/B	Glass lower
7	1.25 R	Battery power
8	1.25 B	GND
9	0.85 O/R	Lock
10	0.85 O/W	Unlock

Door Harness Connector (D--)

RR Door Control Unit Harness Connector



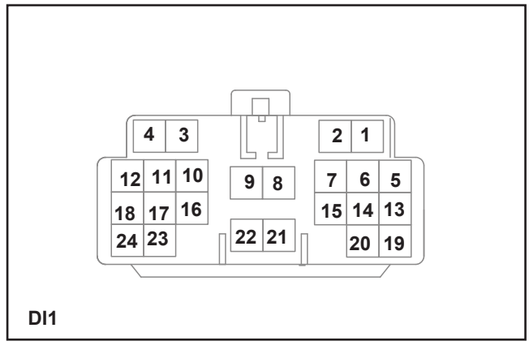
D26

D26 Pin Definition

Pin Number	Wire Width / Color	Function
1		NC
2		NC
3		NC
4		NC
5		NC
6		NC
7		NC
8		NC
9	0.50 R/W	Battery power
10	0.50 B	Ground
11	0.50 G	LIN
12	0.50 V	Background lighting lamp power+
13		NC
14		NC
15		NC
16		NC

Door Harness Connector (D--)

Door Harness to I/P Harness Harness Connector



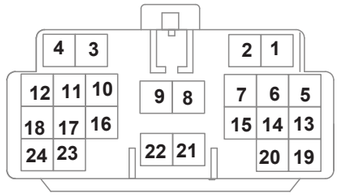
DI1

DI1 Pin Definition

Pin Number	Wire Width / Color	Function
1	0.50 B	Ground
2	0.50 G	LIN
3	0.50 V	Background light power
4	0.85 G/Br	Microswitch signal
5	0.50 Gr/W	Front left door handle aerial power-
6	0.50 Gr/R	Front left door handle aerial power+
7		NC
8	1.25 B	Ground
9	1.25 R/V	Front left door control unit's battery power
10		NC
11	0.50 W	Front left door speaker power+
12	0.50 W/B	Front left door speaker power-
13		NC
14		NC
15		NC
16	0.50 R/W	Front left door control unit's battery power
17	0.50 W/R	Front left power rearview mirror heating power+
18	0.50 Br/G	Front left power rearview mirror, turn left power+
19	0.50 Br/R	Front left power rearview mirror, turn up power+
20	0.50 Gr/V	Front left power rearview mirror, turn right & down power+
21		NC
22		NC
23		NC
24		NC

Door Harness Connector (D--)

Door Harness to I/P Harness Connector



DI2

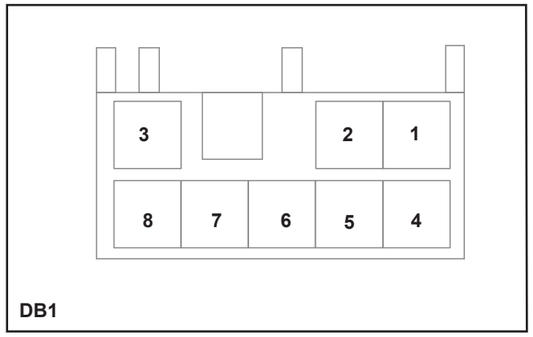
DI2 Pin Definition

Pin Number	Wire Width / Color	Function
1	0.50 B	Ground
2	0.50 G	LIN
3	0.50 V	Background light power
4		NC
5		NC
6		NC
7		NC
8	1.25 B	Ground
9	1.25 R/V	RF door control unit's battery power
10		NC
11	0.50 O	RF door speaker power+
12	0.50 O/B	RF door speaker power-
13		NC
14		NC
15		NC
16	0.50 R/W	RF door control unit's battery power
17	0.50 W/R	RF power rearview mirror heating power+
18	0.50 Gr/Y	RF power rearview mirror, turn left power+
19	0.50 Br/W	NC
20	0.50 Gr/V	RF power rearview mirror, turn up power+
21		RF power rearview mirror, turn right & down power+
22		NC
23		NC
24		NC

Harness Connector View

Door Harness Connector (D--)

Door Harness to Left Vehicle Body Harness Connector

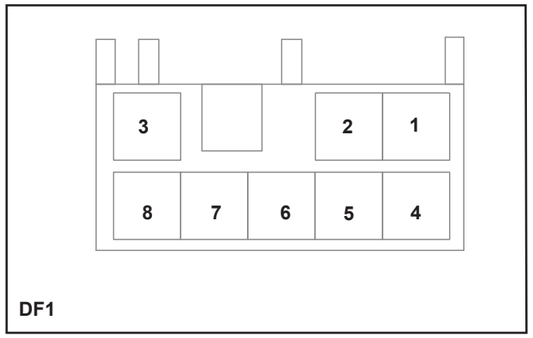


DB1 Pin Definition

Pin Number	Wire Width / Color	Function
1	0.50 B	Ground
2	0.50 R/W	LR door control unit's battery power
3	0.50 G	LIN
4		NC
5		NC
6	1.25 B	Ground
7	1.25 R	LR door control unit's battery
8	0.50 V	Background light power

Door Harness Connector (D--)

Door Harness to Right Floor Harness Connector



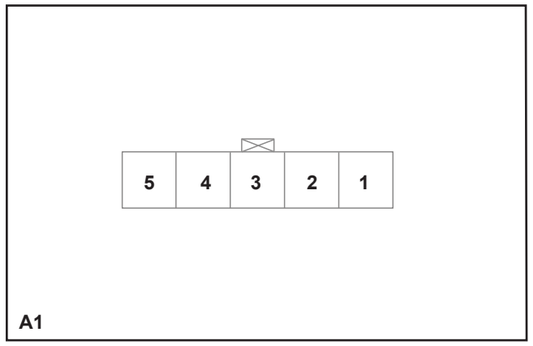
DF1 Pin Definition

Pin Number	Wire Width / Color	Function
1	0.50 B	Ground
2	0.50 R/W	RR door control unit's battery power
3	0.50 G	LIN
4		NC
5		NC
6	1.25 B	Ground
7	0.50 V	RR door control unit's battery
8	1.25 R	Background light power

Harness Connector View

A/C Harness Connector (A--)

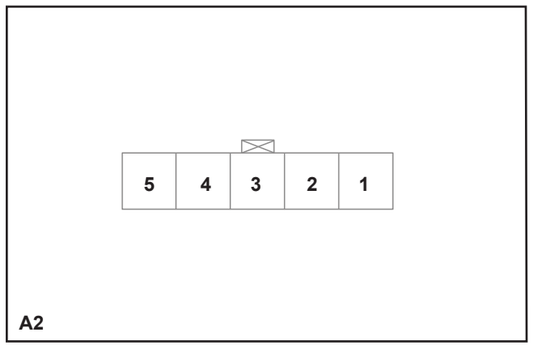
Mode Motor Harness Connector



A1 Pin Definition

Pin Number	Wire Width/Color	Function
1	0.50 Gr/G	Mode motor defrosting actuation power+
2	1.25 Gr	Mode motor face-blowing actuation power+
3	0.50 Bl/W	Mode motor feedback signal
4	0.50 R/W	5V Reference Power
5	0.50 R/B	Ground

I/E Circulation Mode Motor Harness Connector

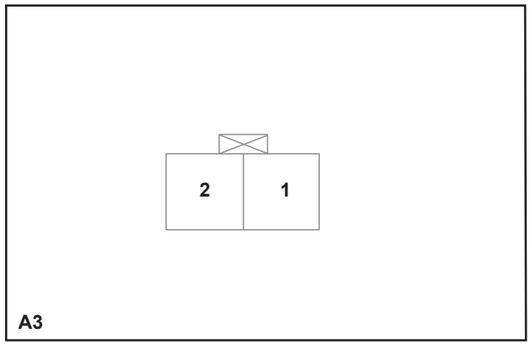


A2 Pin Definition

Pin Number	Wire Width/Color	Function
1	0.50 Bl	Internal circulation power+
2	1.25 Br	External circulation power+
3		NC
4		NC
5		NC

A/C Harness Connector (A--)

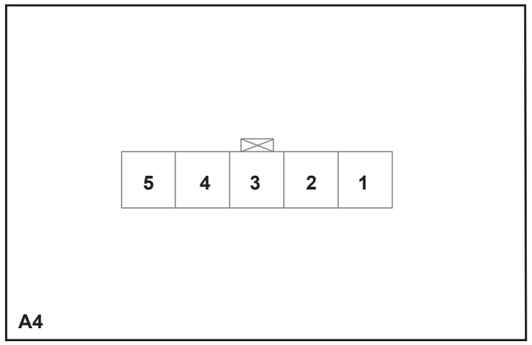
Evaproator Temperature Sensor Mode Motor Harness Connector



A3 Pin Definition

Pin Number	Wire Width/Color	Function
1	0.85 Y	5V Reference power+
2	0.50 B	signal

Air Fixing Motor Mode Motor Harness Connector



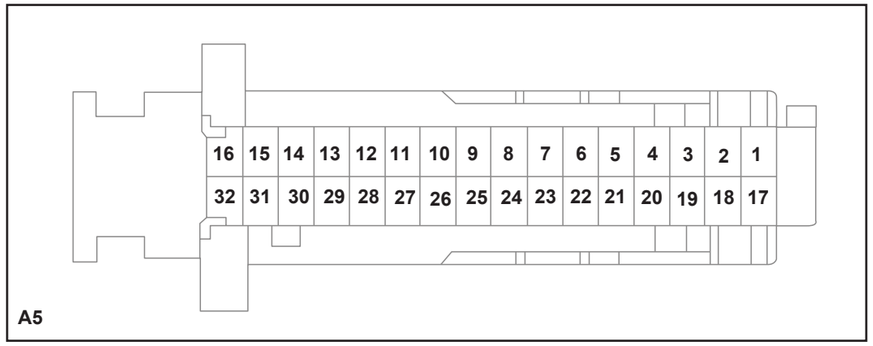
A4 Pin Definition

Pin Number	Wire Width/Color	Function
1	0.50 V	Air mixing motor cold actuation power+
2	1.25 O	Air mixing motor warm actuation power+
3	0.50 Bl/B	Air mixing motor feedback signal
4	0.50 R/W	5V Reference Power
5	0.50 R/B	Ground

Harness Connector View

A/C Harness Connector (A--)

A/C Control Unit Mode Motor Harness Connector



A5 Pin Definition

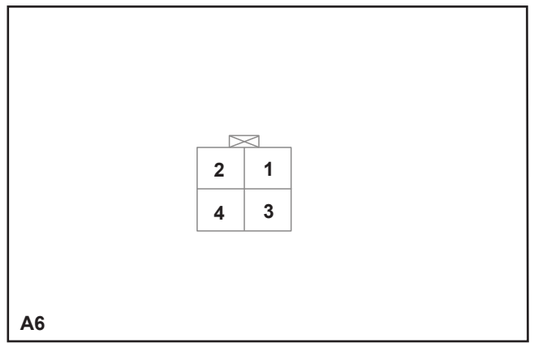
Pin Number	Wire Width / Color	Function
1	0.50 R/B	Ground
2	0.50 P	Solar sensor signal
3	0.50 B	Ground
4	0.50 G/W	CAN-L
5	0.50 G/R	CAN-H
6		Ground
7	0.50 Bl/W	Mode actuator position feedback signal input
8	0.50 Bl/B	Air mixing actuator position feedback signal input
9	0.50 Gr/Y	Indoor temperature sensor signal input
10	0.50 R/Y	Outdoor temperature sensor signal input
11	0.85 Y	Evaporator temperature sensor signal output
12	0.50 B	Ground
13	0.50 G	A/C request signal output
14	0.50 Br/B	Front right seat heating signal output
15	0.50 B/G	Front left seat heating signal output
16	0.50 B	Ground
17	0.50 Bl	Internal recycle actuation output
18	1.25 Br	External recycle actuation output
19	1.25 O	Air mixing motor hottest actuating output
20	0.50 V	Air mixing motor coldest actuating output
21	1.25 Gr	Mode motor face-blowing actuating output
22	0.50 Gr/G	Mode motor defroster actuating output
23		NC
24	0.50 Y/B	Ground
25	0.50 W	Rear defroster signal output

A/C Harness Connector (A--)

A5 Pin Definition

Pin Number	Wire Width / Color	Function
26	0.50 R/W	5V Reference Power
27	0.50 Y/G	Blower speed control signal output
28	0.50 W/B	Blower voltage feedback signal input
29	0.50 Bl/R	Background light power
30	0.50 R	Battery power
31		NC
32	0.50 R/Bl	ACC power

Regulator Module Mode Motor Harness Connector

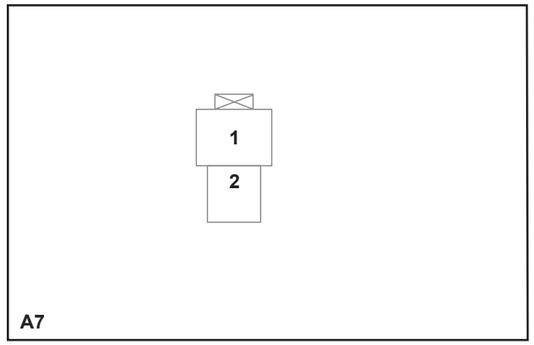


A6 Pin Definition

Pin Number	Wire Width/Color	Function
1	0.50 Bl	Blower power-
2	0.50 B	Ground
3	0.50 W/B	Blower feedback signal
4	0.50 Y/G	Blower speed control

A/C Harness Connector (A--)

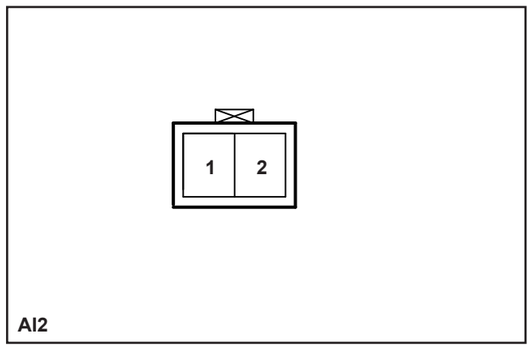
Blower Harness Connector



A7 Pin Definition

Pin Number	Wire Width/Color	Function
1	3.00 R	Power+
2	0.50 Bl	Power-

A/C Harness to I/P Harness Connector

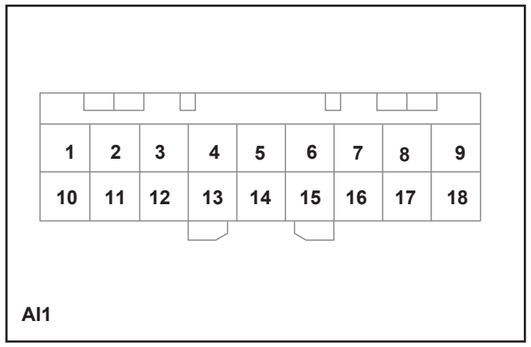


AI2 Pin Definition

Pin Number	Wire Width/Color	Function
1	3.00 R	Power
2		NC

A/C Harness Connector (A--)

A/C Harness to I/P Harness Connector

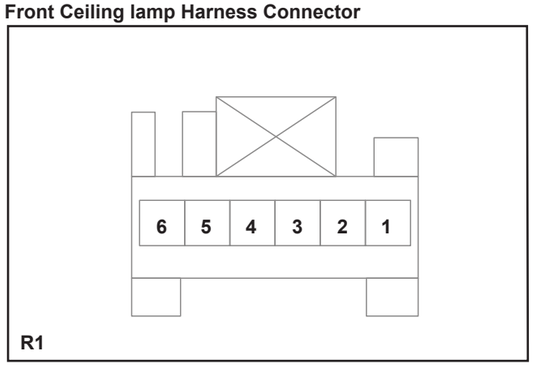


AI1 Pin Definition

Pin Number	Wire Width / Color	
1	0.50 R/Bl	ACC power
2	0.50 R	Battery power
3	0.50 W	Rear defroster signal
4	0.50 G/R	CAN-H
5	0.50 G/W	CAN-L
6	0.50 G	A/C signal
7	0.50 B/G	Front left seat heating signal
8	0.50 Br/B	Front right seat heating signal
9	0.50 Bl/R	Background light power
10	0.50 Y/B	Sensor ground
11	NC	
12	0.50 B	Ground
13	NC	
14	0.50 R/Y	Outdoor temperature sensor signal
15	0.50 P	Solar sensor signal
16	0.50 Gr/Y	Indoor temperature sensor signal
17	NC	
18	NC	

Roof Harness Connector (R--)

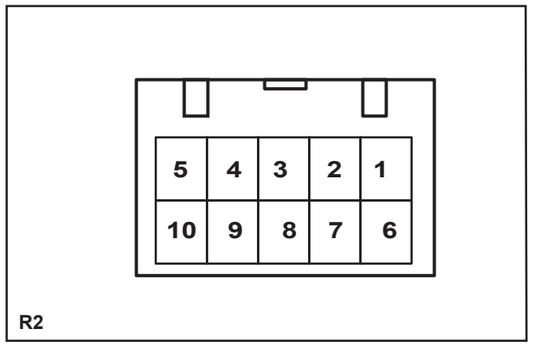
Front Ceiling lamp Harness Connector



R1 Pin Definition

Pin Number	Wire Width/Color	Function
1	0.50 B	Ceiling power-
2	0.50 R/W	Ceiling lamp power+
3	0.50 O/Bl	Ceiling door control switch actuating
4	0.50 V/W	Sunroof close signal input
5	0.50 V/R	Sunroof open signal input
6	0.50 V/G	Switch grounding

Sunroof ECU Harness Connector



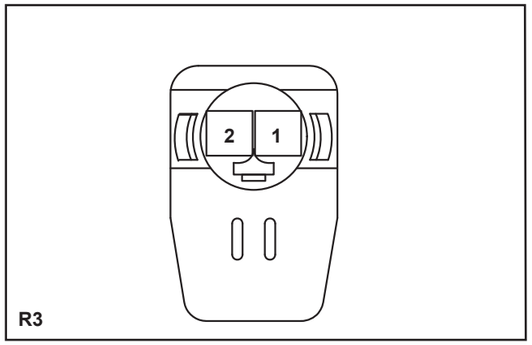
R2 Pin Definition

Pin Number	Wire Width/Color	Function
1	0.50 B	Switch grounding
2	1.25 B	Ground
3	0.50 R	IG2 Power
4		NC
5	0.50 V/R	Sunroof open signal input
6	1.25 R/Bl	Battery power
7	0.50 G	LIN
8		NC
9		NC

Roof Harness Connector (R--)

Pin Number	Wire Width/Color	Function
10	0.50 V/W	Sunroof close signal input

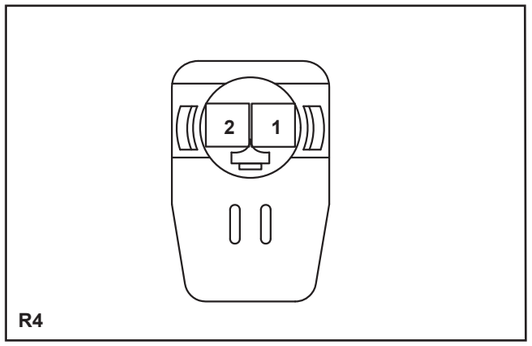
Right Side Airbage Harness Connector



R3 Pin Definition

Pin Number	Wire Width/Color	Function
1	0.50 Bl	
2	0.50 Y	

Left Side Airbage Harness Connector

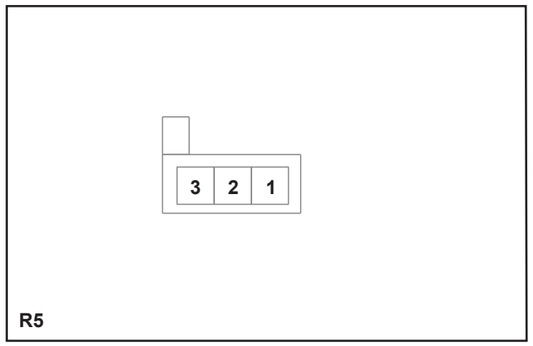


R4 Pin Definition

Pin Number	Wire Width/Color	Function
1	0.50 B	Ceiling door control switch actuating
2	0.50 G/Y	Ceiling lamp power+

Roof Harness Connector (R--)

Rear Ceiling Lamp Harness Connector

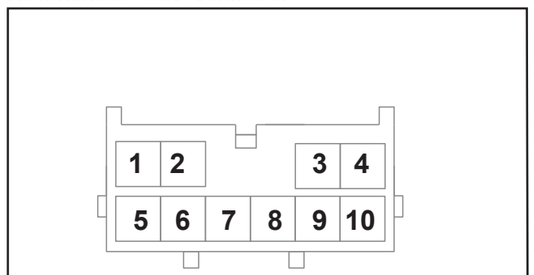


R5

R5 Pin Definition

Pin Number	Wire Width/Color	Function
1	0.50 O/Bl	Ceiling door control switch actuating
2	0.50 R/W	Ceiling lamp power+
3	0.50 B	Ceiling lamp power-

Roof Harness to I/P Connector



RI1

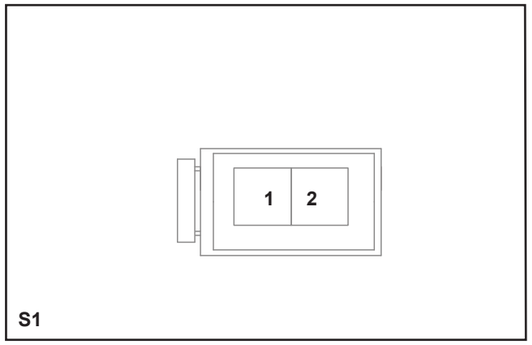
RI1 Pin Definition

Pin Number	Wire Width/Color	Function
1	0.50 G	LIN
2	0.50 B	Sunroof ECU grounding
3	0.50 O/Bl	Ceiling door control switch actuating
4	1.25 B	Ground
5	0.50 R/W	Ceiling power supply
6	1.25 R/Bl	Sunroof ECU battery power
7	0.50 R	Sunroof ECU IG1 power
8		NC
9		NC
10		

Harness Connector View

SRS Harness Connector (S--)

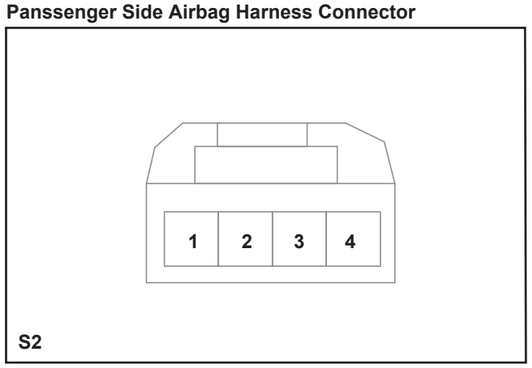
Clock Spring Main Airbag Harness Connector



S1 Pin Definition

Pin Number	Wire Width / Color	Function
1	0.50 Y/Gr	Power +
2	0.50 Y/B	Power -

Panssenger Side Airbag Harness Connector

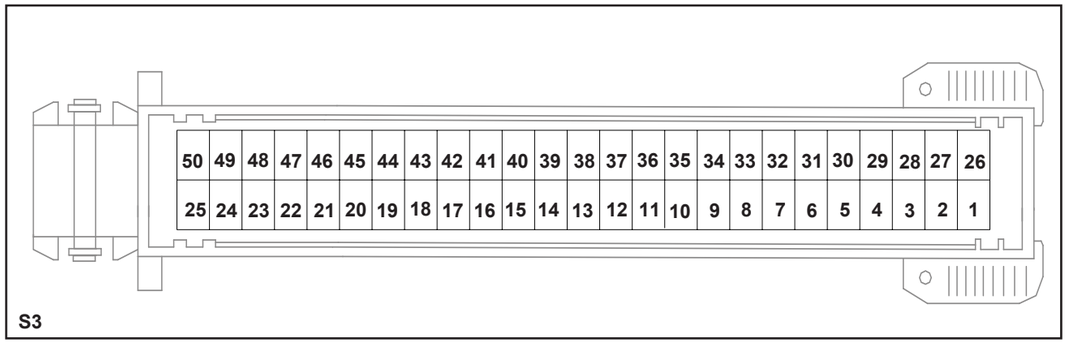


S2 Pin Definition

Pin Number	Wire Width / Color	Function
1		
2	0.50 Y/R	Power -
3	0.50 Y/W	Power +
4		

SRS Harness Connector (S--)

SRS ECU Harness Connector



S3 Pin Definition

Pin Number	Wire Width/Color	Function
1	0.50 Y/Gr	Main airbag power+
2	0.50 Y/B	Main airbag power-
3	0.50 Y/R	Front passenger airbag power-
4	0.50 Y/W	Front passenger airbag power+
5		NC
6	0.50 B	Ground
7		NC
8	0.50 W/B	Ground
9	0.50 G/B	
10	0.50 O/B	
11	0.50 O/Gr	
12		NC
13	0.50 O/V	
14	0.50 O/Bl	
15		NC
16	0.50 Y/G	
17	0.50 Y/Br	
18	0.50 Y/Bl	
19	0.50 Y/V	
20	0.50 W/B	CAN-L
21	0.50 O/W	
22	0.50 O/G	
23		NC
24		NC
25		NC

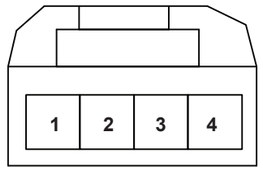
SRS Harness Connector (S--)

S3 Pin Definition

Pin Number	Wire Width/Color	Function
26		
27		
28		
29		
30	0.50 R	IG1 power
31		
32		
33	0.50 W	
34	0.50 G	
35		
36		
37		
38		
39		
40		
41		
42		
43		
44		
45	0.50 W	CAN-H
46	0.50 O/R	
47	0.50 O/Br	
48		
49		
50		

SRS Harness Connector (S--)

Left Side Airbag Harness Connector

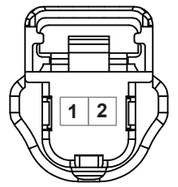


S4

S4 Pin Definition

Pin Number	Wire Width / Color	Function
1		
2	0.50 O/Bl	Power -
3	0.50 O/V	Power +
4		

Left Side Crash Sensor Harness Connector



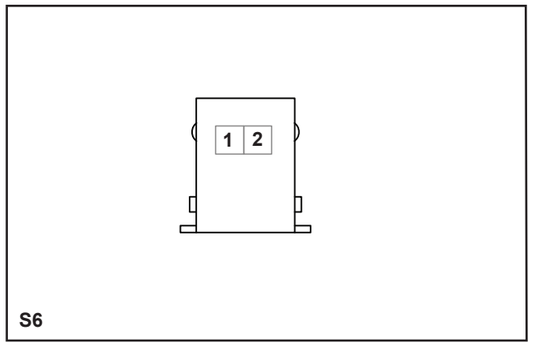
S5

S5 Pin Definition

Pin Number	Wire Width / Color	Function
1	0.50 W	Power -
2	0.50 W/B	Power +

SRS Harness Connector (S--)

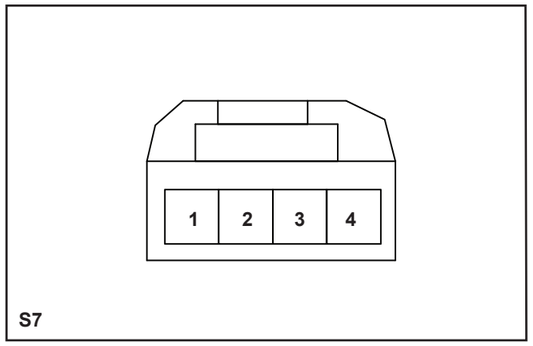
Drive Side Airbage Pretensioners Harness Connector



S6 Pin Definition

Pin Number	Wire Width / Color	Function
1	0.50 Y/G	Power -
2	0.50 Y/Br	Power +

Right Side Airbag Module Harness Connector

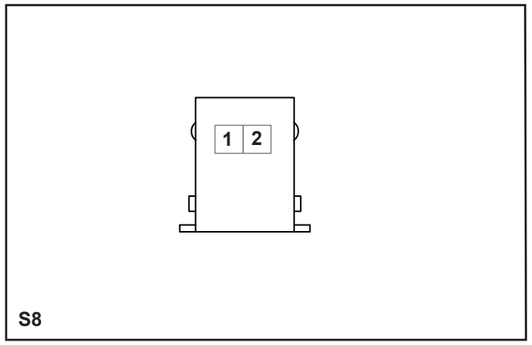


S7 Pin Definition

Pin Number	Wire Width / Color	Function
1		
2	0.50 O/Gr	Power -
3	0.50 O/B	Power +
4		

SRS Harness Connector (S--)

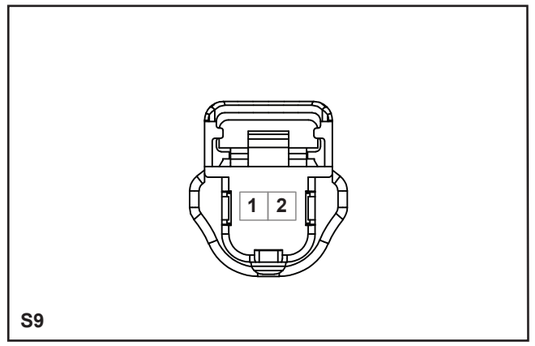
Passenger Side Airbage Pretensioners Harness Connector



S8 Pin Definition

Pin Number	Wire Width / Color	Function
1	0.50 Y/V	Power -
2	0.50 Y/Bl	Power +

Right Side Crash Sensor Harness Connector

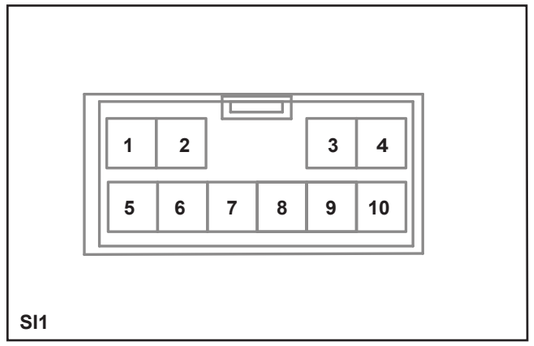


S9 Pin Definition

Pin Number	Wire Width / Color	Function
1	0.50 G	Power -
2	0.50 G/B	Power +

SRS Harness Connector (S--)

SRS Harness to I/P Harness Connector

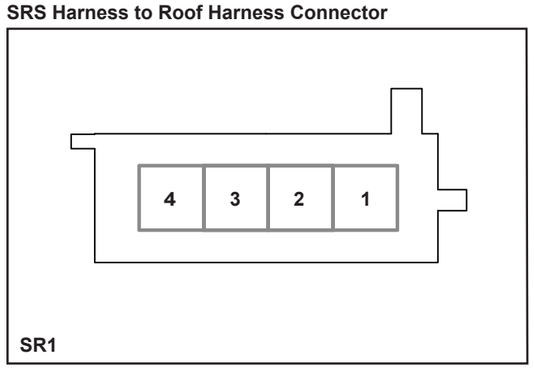


SI1

SI1 Pin Definition

Pin Number	Wire Width/Color	Function
1	0.50 W	CAN-H
2	0.50 W/B	CAN-L
3	0.50 R	IG1 power
4		NC
5		NC
6		NC
7		NC
8		NC
9		NC
10		NC

SRS Harness to Roof Harness Connector



SR1

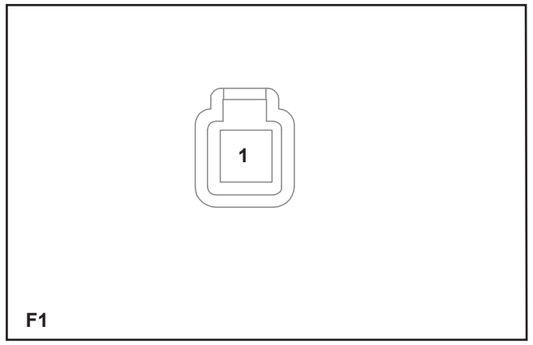
SR1 Pin Definition

Pin Number	Wire Width/Color	Function
1	0.50 O/R	
2	0.50 O/W	
3	0.50 O/G	
4	0.50 O/Br	

Harness Connector View

Left Floor Harness Connector (F--)

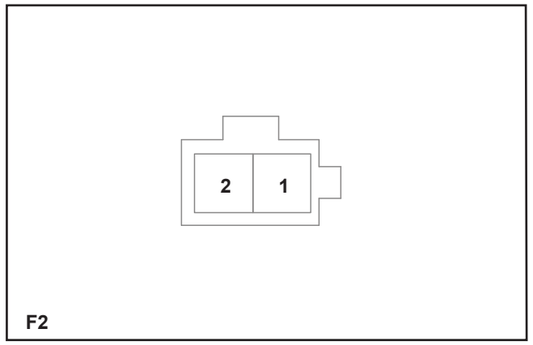
RF Door Control Switch Harness Connector



F1 Pin Definition

Pin Number	Wire Width / Color	Function
1	0.50 V/R	Signal

RR Door Control Switch Harness Connector

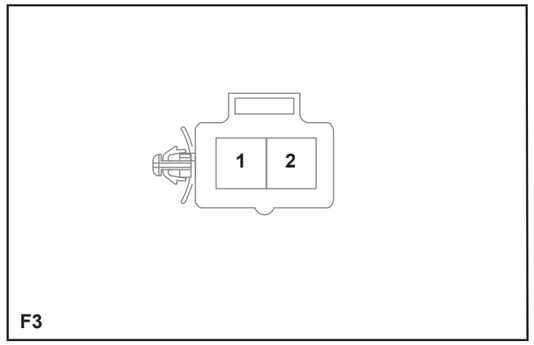


F2 Pin Definition

Pin Number	Wire Width/Color	Function
1	0.50 V/G	Signal
2		NC

Left Floor Harness Connector (F--)

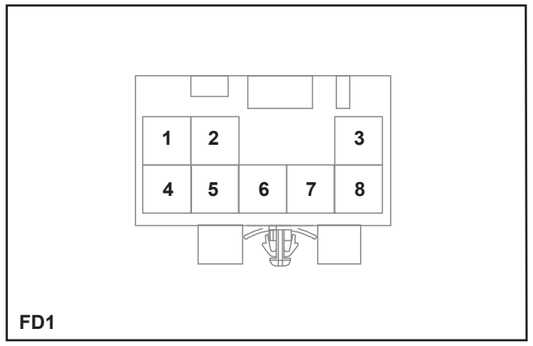
RR Wheel Speed Sensor Harness Connector



F3 Pin Definition

Pin Number	Wire Width / Color	Function
1	0.50 Br/B	Signal
2	0.50 Br	Power+

Left Floor Harness to RR Door Harness Connector

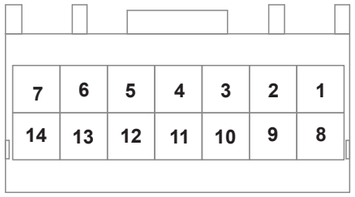


FD1 Pin Definition

Pin Number	Wire Width/Color	Function
1	0.50 B	Ground
2	0.50 R/W	Rear right door control unit's battery power
3	0.50 G	LIN
4		NC
5		NC
6	0.50 B	Ground
7	0.50 V	Background lighting power
8	1.25 R	Rear right door control unit's battery power

Left Floor Harness Connector (F--)

Left Floor Harness to Instrument Cluster Harness Connector



FI1

FI1 Pin Definition

Pin Number	Wire Width/Color	Function
1	1.25 R	Rear right door control unit's battery power
2	0.50 R/W	Rear right door control unit's battery power
3	0.50 G	LIN
4	0.50 V	Background lighting power
5	0.50 B	Ground
6	0.50 V/G	Rear right door control switch signal
7	0.50 V/R	Front right door control switch signal
8	0.50 Br/B	Sensor signal
9	0.50 Br	Sensor power+
10		NC
11		NC
12		NC
13		NC
14		NC

Abbreviations

Abbreviation	Description
A/C	Air Conditioning
AAT	Ambient Air Temperature
ABS	Anti-lock Brake System
AM/FM	Amplitude Modulation/ Frequency Modulation
APP	Accelerator Pedal Position
ASR	Acceleration Slip Regulation
AT	Automatic Transmission
ATF	Automatic Transmission Fluid
BCM	Body Control Module
CAN	Controller Area Network
CD	Compact Disc
CKP	Crankshaft Position Sensor
CMP	Camshaft Position Sensor
CRK	Crank
DDM	Driver Door Module
DLC	Data Link Connector
DOHC	Double Overhead Camshaft
DTC	Diagnostic Trouble Code
DVD	Digital Video Disk
EBD	Electronic Brakeforce Distribution
ECM	Engine Control Module
ECT	Engine Coolant Temperature
EGR	Exhaust-Gas Recirculation
EOBD	European On Board Diagnostic
ESP	Electronic Stability Program
ETC	Electronic Tune Control
EVAP	Evaporative Emission Control System
FWD	Front Wheel Drive
GPS	Global Positioning System
GVM	Gross Vehicle Mass
HCU	Hydraulic Control Unit
HFM	Hands Free Module
HID	High Intensity Discharge
HO2S	Heated Oxygen Sensor
HVAC	Heating, Ventilation and Air Conditioning
I/P	Instrument Panel
IAC	Idle Air Control Valve

Abbreviation	Description
IAT	Intake Air Temperature
ICU	Integrated Control Unit
IPC	Instrument Panel Cluster
ISO	International Standards Organization
ISS	Input Shaft Speed
KS	Knock Sensor
LED	Light Emitting Diode
LF	Left Front
LIN	Local Interconnect Network
LR	Left Rear
MAF	Mass Air Flow
MAP	Manifold Absolute Pressure
MIL	Malfunction Indicator Lamp
MP3	MPEG Audio Layer 3
MT	Manual Transmission
MTC	Manual Temperature Control
MY	Model Year
OBD-II	On Board Diagnositic II
OEM	Original Equipment Manufacturer
PAM	Parking Aid Module
PCV	Positive Crankcase Ventilation
PDC	Power Distribution Center
PDM	Passenger Door Mudule
PIN	Personal Identification Number
PWM	Pulse Width Modulation
RF	Right Front
RR	Right Rear
SAE	Society of Automotive Engineers
SAS	Steering Angle Sensor
SCCM	Steering Column Control Module
SDM	Supplemental Diagnostic Module
SFI	Sequential Fuel Injection
SOHC	Single Overhead Camshaft
SRI	Service Reminder Indicator
SRS	Supplemental Restraint System
TCC	Torque Converter Clutch
TCM	Transmission Control Module
TIR	Total Indicator Reading

Abbreviations

Abbreviation	Description
TPMS	Tire Pressure Monitoring System
TPS	Throttle Position Switch
TRS	Transmission Range Sensor
TSB	Technical Service Bulletin
TWC	Three-way Catalyst
VFD	Vacuum Fluorescent Display
VIN	Vehicle Identification Number
VSS	Vehicle Speed Sensor
WSS	Wheel Speed Sensor
VVT	Variable valve timing
FBCM	Front vehicle body control module
RBCM	Rear vehicle body control module
CAN	Controller LAN
PEPS	Keyless entry and start system

⚠ Note：Refer to the workshop manual for the abbreviations not covered by the list.

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