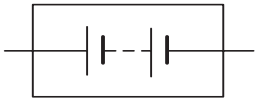
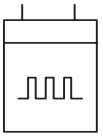
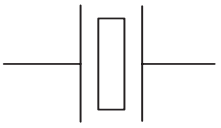
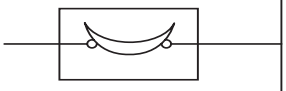
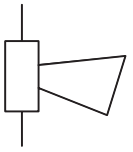
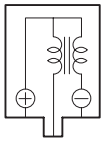
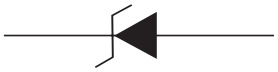
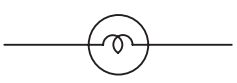
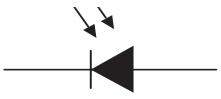
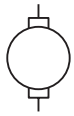
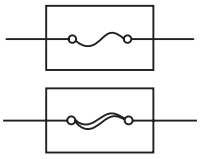
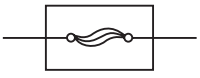
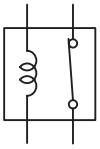
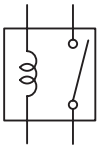
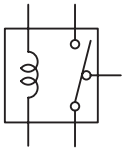
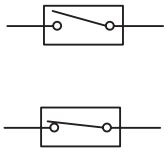
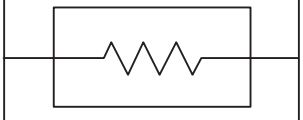
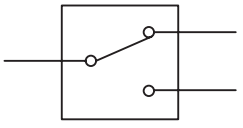
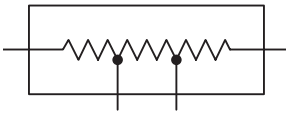
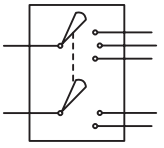
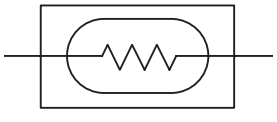
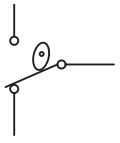
Circuit Diagram

Basic Information for Electrical System

Terms and Symbols

	**Storage Battery** To store chemical energy, convert it into electrical energy and provide direct current power for vehicle circuits		**Ground** The point where the negative terminal of the power supply cable is connected to the vehicle body to provide a closed circuit; the current cannot flow along a loop if there is no ground
	**Capacitor** A temporary small electrical charge storage device		**Engine Speed Sensor** To detect the crankshaft speed and provide a benchmark signal for the ECU to determine the ignition timing and work order
	**Cigarette Lighter** Resistance heater		**Knock Sensor** Installed on a cylinder body and dedicated to detecting the engine knocking information and provide it for the ECU, which will adjust the ignition advance angle based on the signal
	**Circuit Breaker** The circuit breaker is a reusable switch; the circuit breaker becomes hot and opens if the current is high. Some circuit breakers can switch on automatically after cooling while others need manual operation to switch them on		**Horn** An electronic device that gives out high-frequency audio signal
	**Diode** A semiconductor that only allows one-way current		**Ignition Coil** To convert low-voltage DC power to a high-voltage ignition current which can ignite the spark plug
	**Zener diode** The diode allows current to flow only when the voltage reaches the specified value and stops inverse current flow. It shunts the residual voltage when the voltage is more than specified value. It can serve as a simple voltage regulator		**Light** The current flowing through its filament enables it to light up
	**Photosensitive Diode** The photosensitive diode is a semiconductor that controls current based on the light intensity		**LED (light emitting diode)** The diode is different from ordinary lights in terms of the current. It emits light but does not generate heat

	**Pump** An apparatus that sucks or discharges gas or fluid		**Analog Instrument** The current will start up a solenoid coil, which moves the probe and thus provides a display related to the background scale
 (medium current fuse)	**Fuse** A very thin sheet metal and will be blown out if a large current flows through, thereby cutting off the current and protecting the circuit from being damaged		**Digital Instrument** The current starts up one or more of LED, LCD or fluorescent display and provides a related or digital display
 (large-current fuse or fuse protector)	**Fuse protector** A thick conductor in a large-current circuit and will be blown out in case of an overcurrent, thereby protecting the circuit. The number stands for the cross-section of a conductor		**Motor** A power installation that converts electrical energy into mechanical energy
 1. Normally closed  2. Normally open	**Relay** In general, a normally closed (1) or open (2) solenoid switch The current flowing through a small coil will generate an electromagnetic field and open or close the affiliated switch		**Speaker** An electric device that can generate sound wave based on current
	**Double-Throw Relay** A relay through which the current flows	 1.Normally open 2.Normally closed	**Manual Switch** Opens and closes a circuit, and stops (1) or allow (2) current flow
	**Resistor** An electronic element with fixed resistance that reduces the voltage to the specified value when installed in a circuit		**Double-Throw Switch** This is a switch for a group of points or other groups through which a constant current flows
	**Tapped Resistor** A resistor with two or more resistance values that are not adjustable		**Ignition Switch** A key operation switch with several positions making circuits become operable, especially the primary ignition circuit
	**Slide Resistor or Variable Resistor** A controllable resistor of which the resistance ratio is adjustable. Sometimes, it is also called a potentioinstrument or rheostat		
	**Sensor (thermistor)** The resistor can change its resistance based on temperature		**Wiper Stop Switch** The switch automatically returns to the stop position via the wiper when the wiper switch is closed

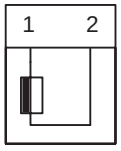
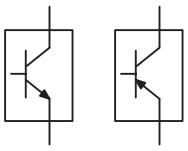
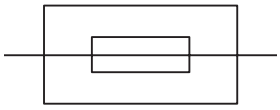
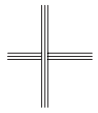
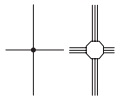
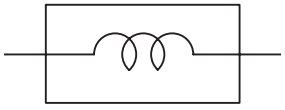
<table>
<tr>
<td> 
</td>
<td>Speed Sensor
The magnetic flux passing through the induction coil changes accordingly and thus induce an AC signal in the induction coil</td>
<td>  </td>
<td>Transistor
A typical solid circuit device which is used as an electronic relay; it cuts off or allow current flow based on the voltage provided by the “base”</td>
</tr>
<tr>
<td>  </td>
<td>Short-Circuit Pin
Used to provide a fixed connection in the junction box</td>
<td rowspan="2"> 
(1) NC

(2) Engaged</td>
<td rowspan="2">Wiring
Wiring in circuit diagrams is usually represented with a line.
The cross wiring (1) with no black circle dot at its junction is not engaged/connected.
The cross wiring (2) with a black circle dot or ○ at its junction is engaged</td>
</tr>
<tr>
<td>  </td>
<td>Solenoid Valve
A solenoid coil that can generate a magnetic field when current flows through it</td>
</tr>
</table>

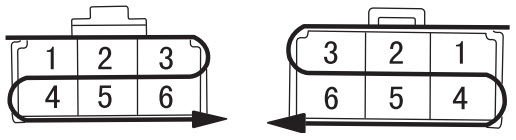
Diagram Instructions

1. Instructions for Fuse Box and Power Supply

The inner fuse box at the left side of the instrument panel is Fuse Box I and that at the left side of the engine compartment is Fuse Box II.

- 30 stands for normal power cord; from the fuse box of the storage battery positive terminal -60A.
- 30a stands for normal power cord; from the fuse box of the storage battery positive terminal -120A.
- 30b stands for normal power cord; from the fuse box of the storage battery positive terminal -120A.
- 15 stands for the power cord of the small capacity electrical appliance; powered by an IG relay when the ignition switch is at "ON".
- 15a stands for the power cord of the small capacity electrical appliance; powered directly by the ignition switch IG1 when the ignition switch is at "ON".
- 15b stands for the power cord of the small capacity electrical appliance; powered directly by the ignition switch IG2 when the ignition switch is at "ON".
- X stands for the power cord of the small capacity electrical appliance; powered by the ignition switch IG2 when the ignition switch is at "ACC".

Example:



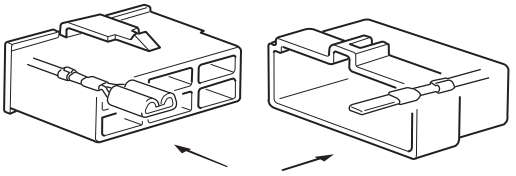
Female Connector Male Connector

2. Connector

(a) The female connector pins are numbered from the upper left corner to the lower right corner.

(b) The male connector pins are numbered from the lower right corner to the upper left corner.

Example:



Female Connector Male Connector

(c) Difference between male and female connectors

The male and female connectors are distinguished according to their internal pin formations.

- All connectors are represented by their open ends and locked at their top;
- When pulling a connector, pull the connector itself instead of the wire.

Note:

Check the type of connector to be pulled before pulling it.

3. Wire Color and Sectional Area (mm^2)

B—Black	W—White	R— Red	Bl—Blue	Br—Brown	Y— Yellow
G—Green	P—Pink	Or—Orange	V—Violet	Lg—Light Green	Gr—Gray

Use the letters in the table directly for the color identification of a single-colored wire. For the color identification of a double-colored wire, the first code stands for the master color and the second stands for the auxiliary color.

For example:

Single-color wire: red, labeled with R.

Double-color wire: master color red and auxiliary color blue, labeled with RBl.

0.5BrGr means a brown wire with gray fine line and its sectional area is $0.5mm^2$

Notes for Circuit Maintenance

1. Make sure to turn the ignition switch to LOCK and disconnect the negative terminal of the storage battery to prevent it from injuring people or damage the vehicle before operating any electrical devices, tools or maintenance devices that come into contact easily with bare terminals.
   Do not remove any storage battery cables or unplug the power supply fuse regardless of whether the engine is running when the ignition switch is at ON.
   Otherwise, it may seriously damage the ECU, the related sensors and other electronic devices.
2. Make sure that the new fuse has the correct rated current value before replacing a fuse. The value should not be more than or less than the rated value.
3. Use only the specified contacts, plugs and wires when repairing any airbags or pre-tensioner harnesses.
4. Make sure to eliminate t factors which may cause damage before repairing any harnesses. For example, electrical devices may be damaged or corroded if any vehicle body parts have sharp edges.
5. Do not repair any shielded wires. Replace them if they are damaged.
6. Do not test the ECU or sensors with a dial universal instrument unless otherwise specified during testing. Make sure to use a digital high-impedance universal instrument (internal resistance≥10kΩ) or a vehicle universal instrument for detection or diagnosis.
7. Remove the waterproof rubber sleeve on a connector when checking it with a digital universal instrument. The instrument probes should be inserted firmly along the terminals. Do not apply large force to prevent the connector from being damaged.

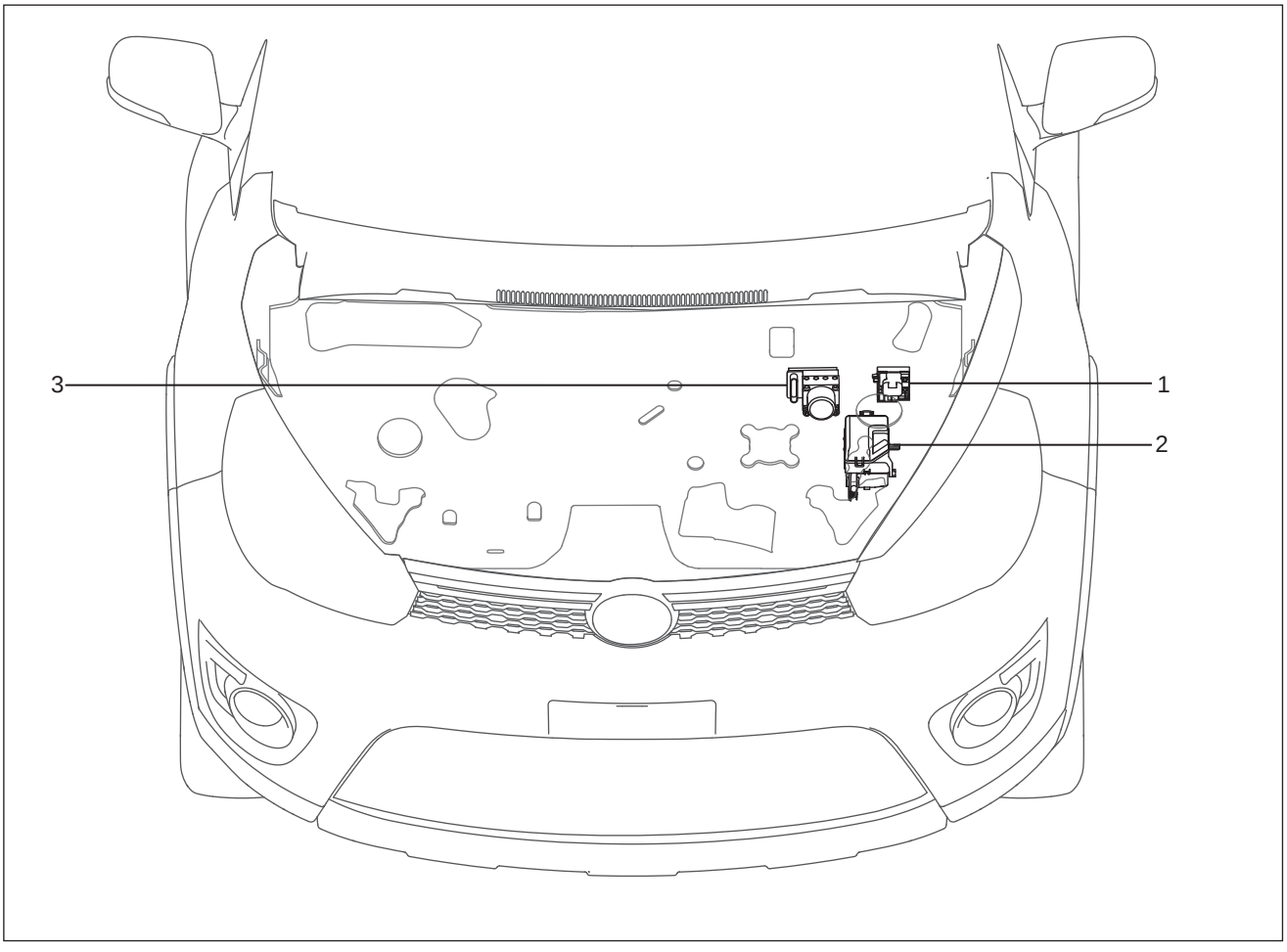
Circuit Maintenance Procedures

It is important to locate the “possible cause” during troubleshooting.
Once located, focus on the parts related to the possible cause.
The location of the “possible cause” should be based on theory and supported by fact rather than intuition.
If you attempt to solve a problem but do not adopt the correct troubleshooting procedures, the symptoms may become more complex, and thus the cause cannot be located correctly, and the faulty part cannot be repaired.
Follow these four steps during troubleshooting:

1. Check the symptoms carefully and record them.
2. Make sure to read the related circuit diagram before locating the “possible cause”. It is necessary to study the wiring diagram and understand the circuit as a system in order to grasp the knowledge related to switches, relays and other electric devices.
3. Troubleshoot step by step until the cause is located.
4. Make sure that the system that has been inspected works normally, and check if any new problem appears after troubleshooting.

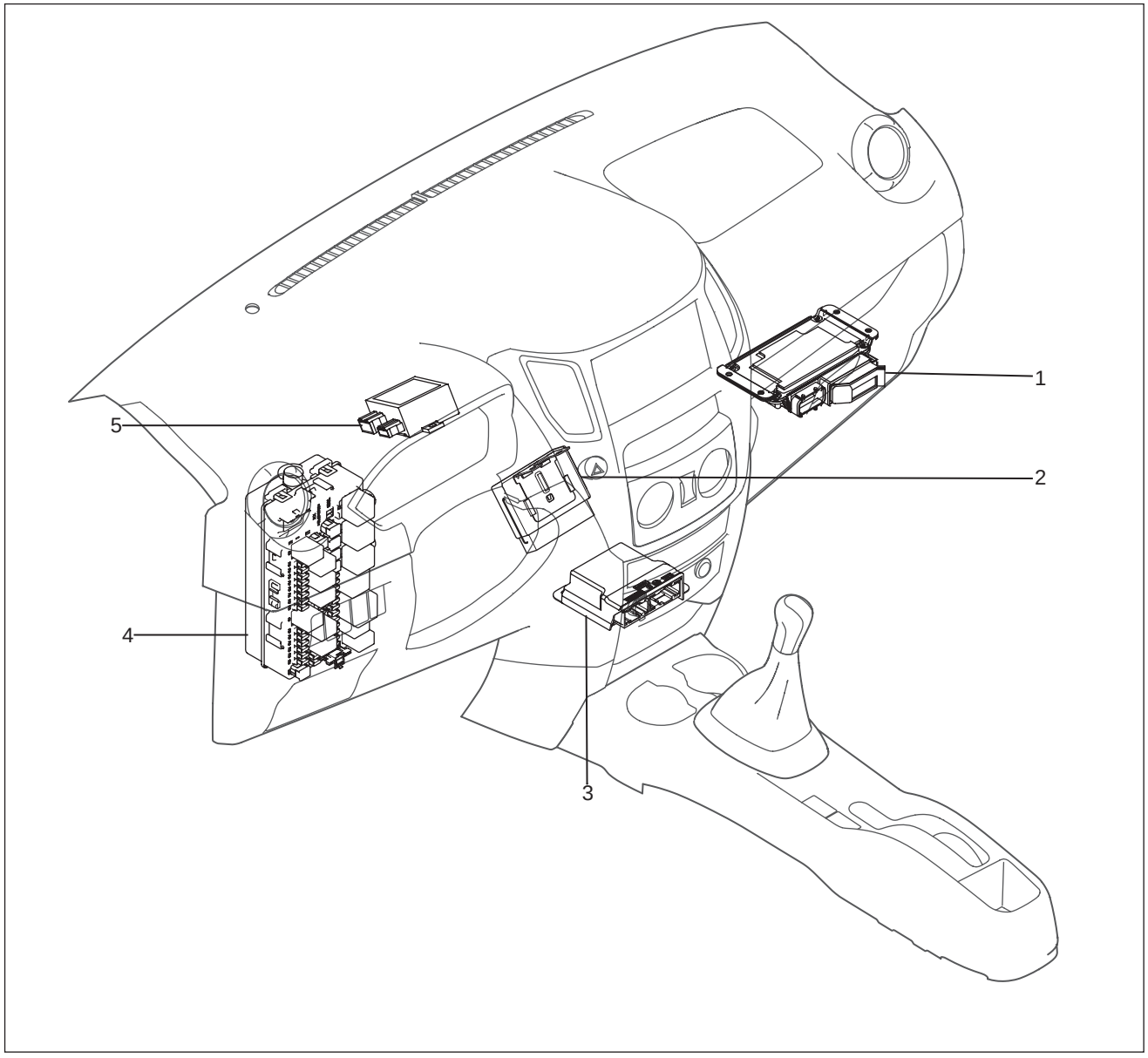
Module Location

Engine Compartment Location



1. Storage Battery Positive Terminal Fuse Box
2. Engine Compartment Fuse Box
3. ABS Control Unit

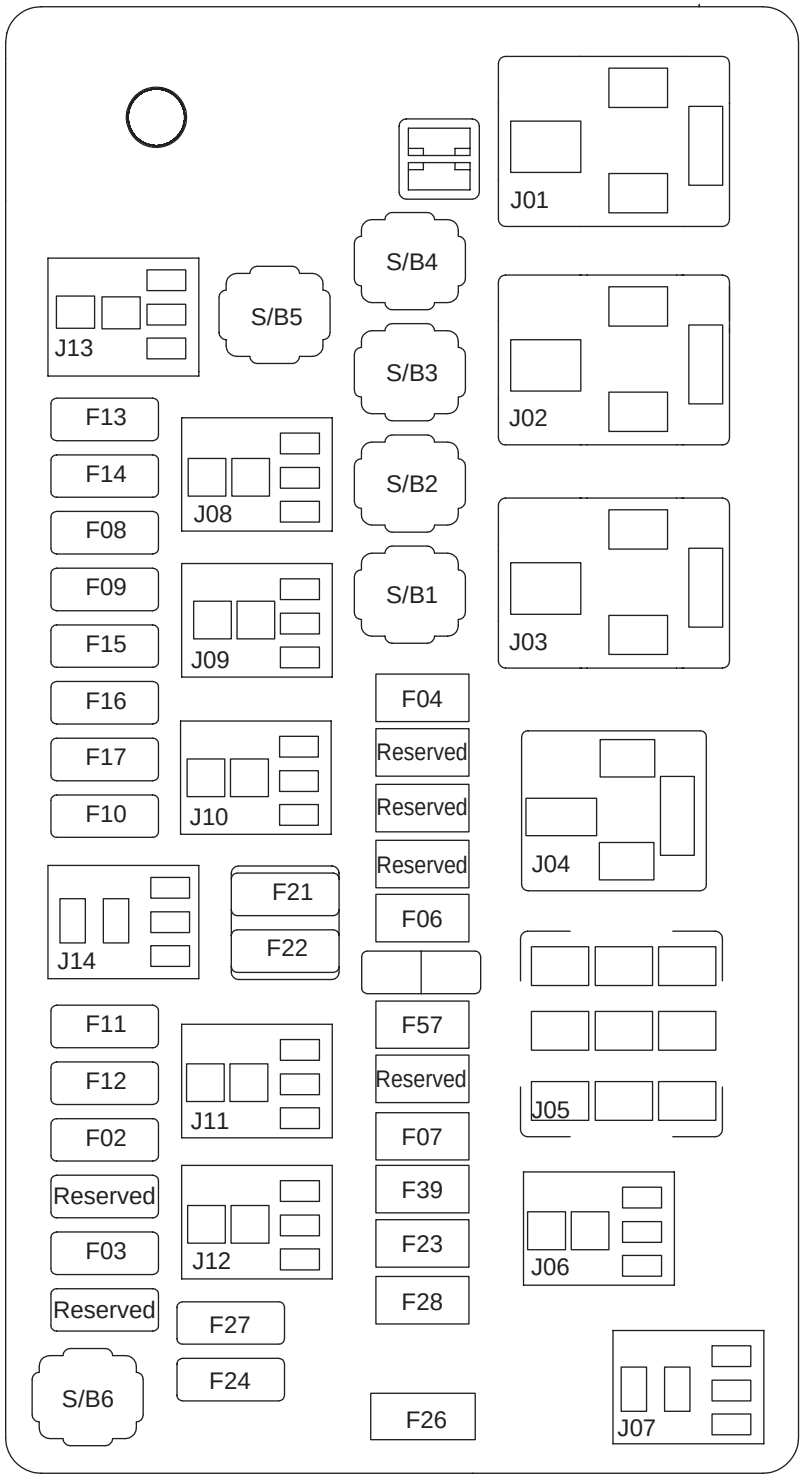
Instrument Panel Location



1. Engine ECU
2. Center Door Lock Controller
3. Airbag ECU
4. Fuse Box I
5. Anti-Theft ECU

Fuse Box

Cab (1#) Fuse Box Pins



Fuse Numbering and Parameters

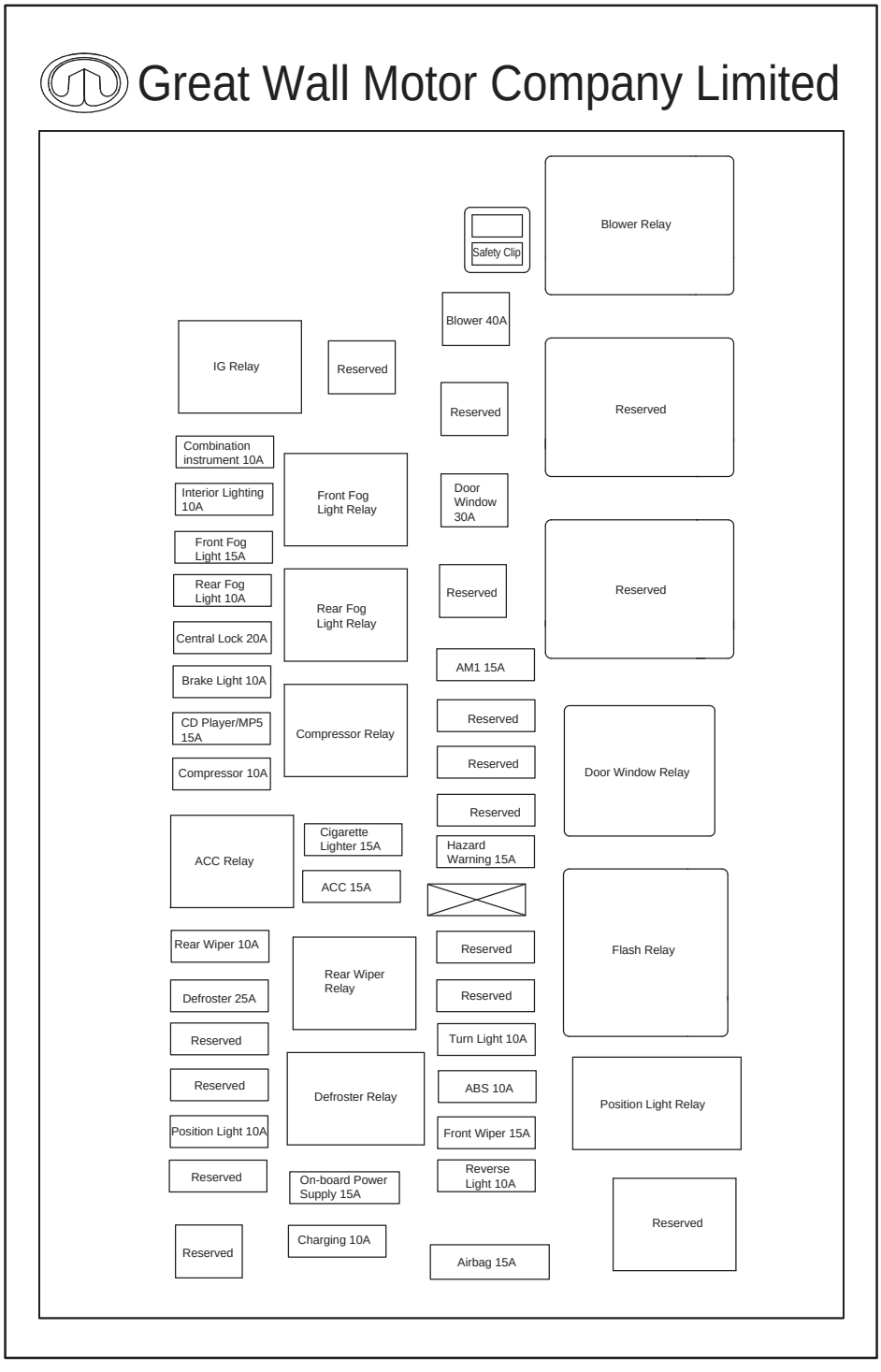
No.	Name	Amperage (A)
J01	Blower relay	---
J02	Blower high-speed relay	---
J03	Reserved	---
J04	Door window relay	---
J05	Flash relay	---
J06	Location relay	---
J07	Reserved	---
J08	Front fog light relay	---
J09	Rear fog light relay	---
J10	Compressor relay	---
J11	Rear wiper relay	---
J12	Defroster relay	---
J13	IG relay	---
J14	ACC relay	---
F04	AM1	15
F06	Hazard warning	15
F57	Seat heating	15
F07	Turn light	10
F25	ABS	10
F23	Front wiper	15
F28	Reverse light	10
F26	Airbag	15
F21	Cigarette lighter	15
F22	ACC	15
F27	On-board power supply	15
F24	Charging	10

No.	Name	Amperage (A)
F13	Combination instrument	10
F14	Interior lighting	10
F08	Front fog light	15
F09	Rear fog light	10
F15	Central lock	20
F16	Brake light	10
F17	CD player (MP5)	15
F10	Compressor	10
F11	Rear wiper	10
F12	Defroster	25
F02	Sunroof	25
F03	Position light	10
S/B1	Reserved	---
S/B2	Door window	30
S/B3	Reserved	---
S/B4	Blower	40
S/B5	Reserved	---
S/B6	Reserved	---

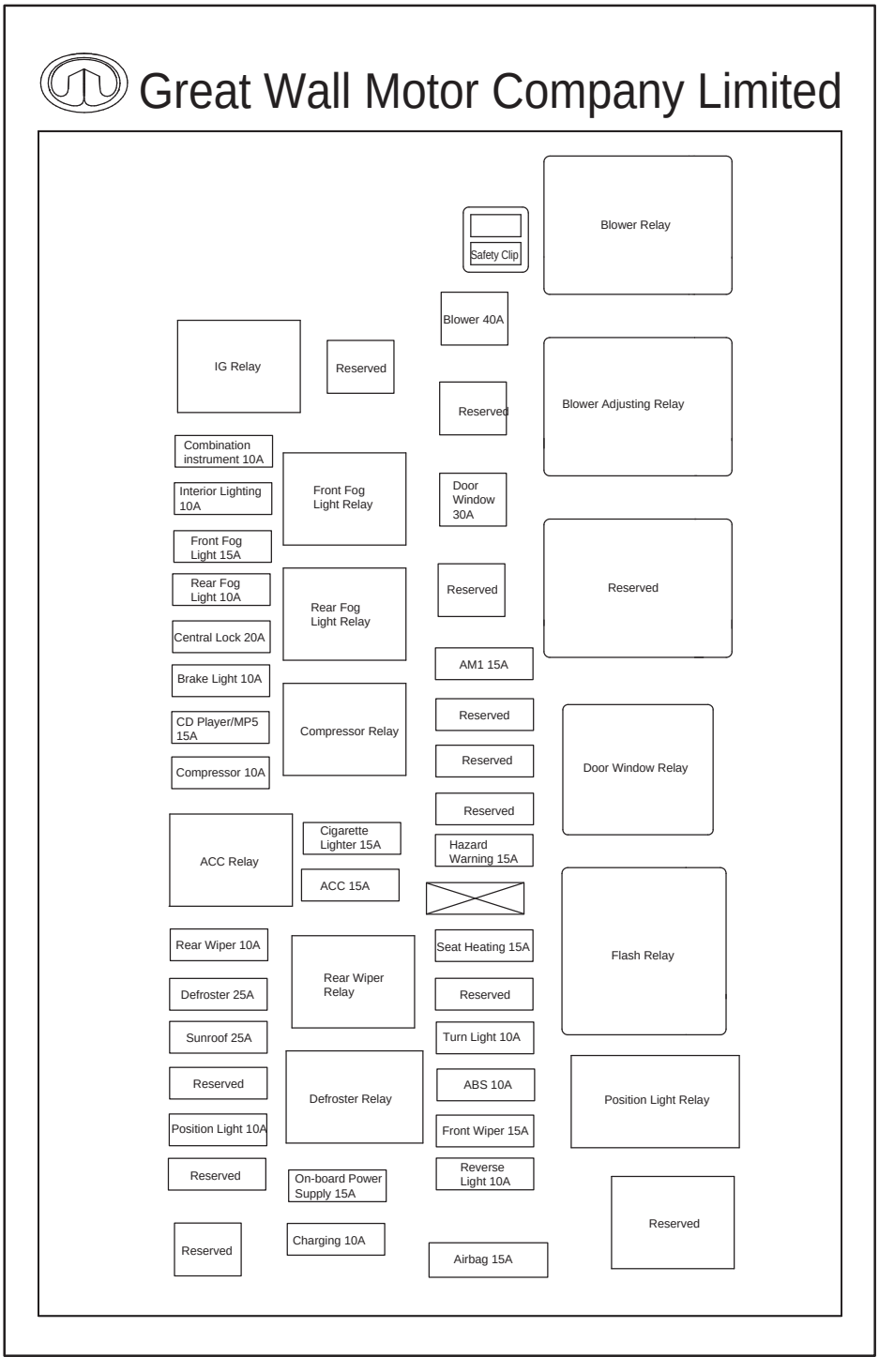
Note:
The fuse numbering and parainstruments in the table are for the sunroof version. For the fashion version/navigation version, J02, F02 and F57 are reserved while other parainstruments remain the same.

Cab (1#) Fuse Box Label

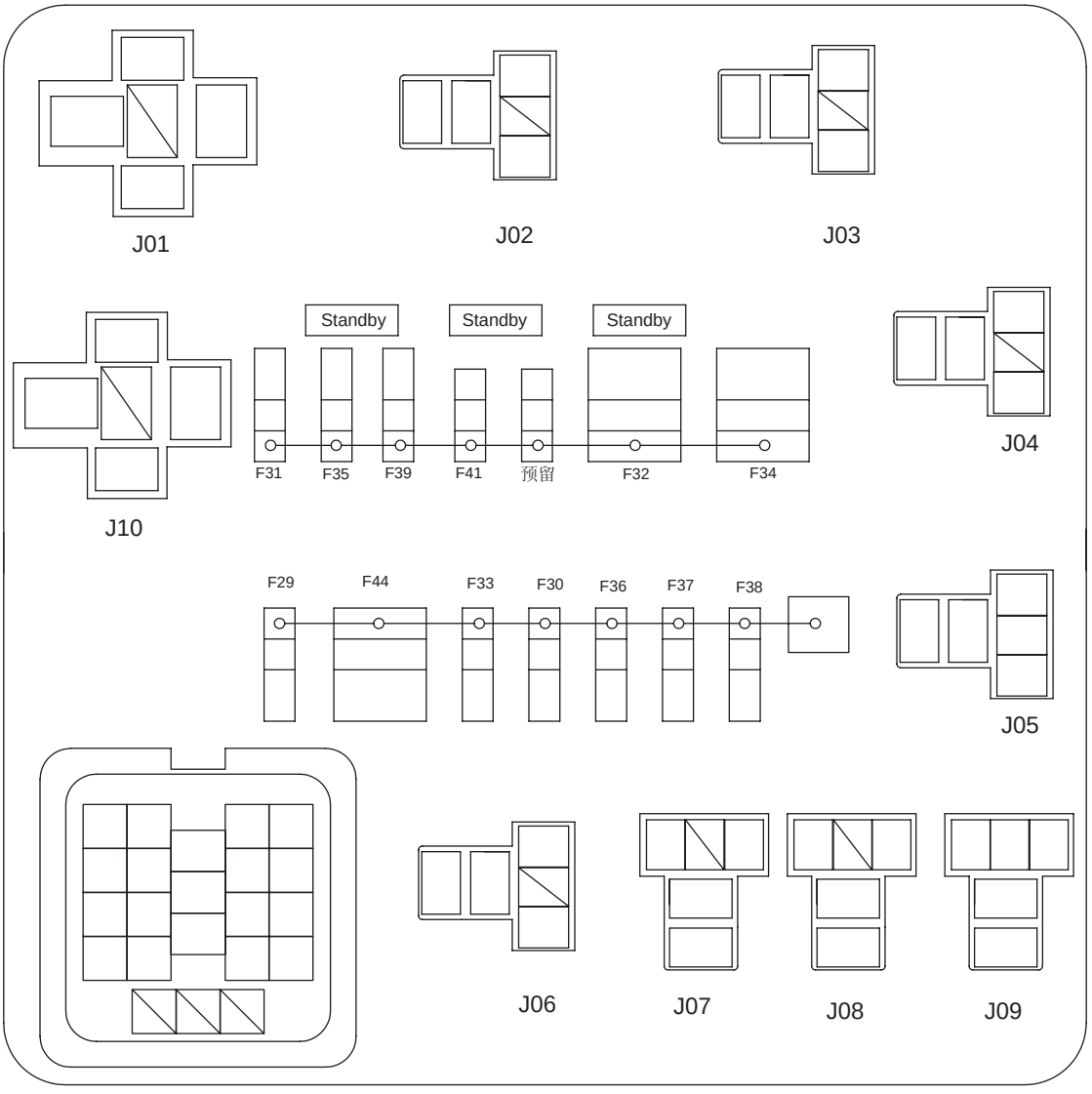
Fashion Version\Navigation Version



Sunroof Version



Engine Compartment (2#) Fuse Box Pins



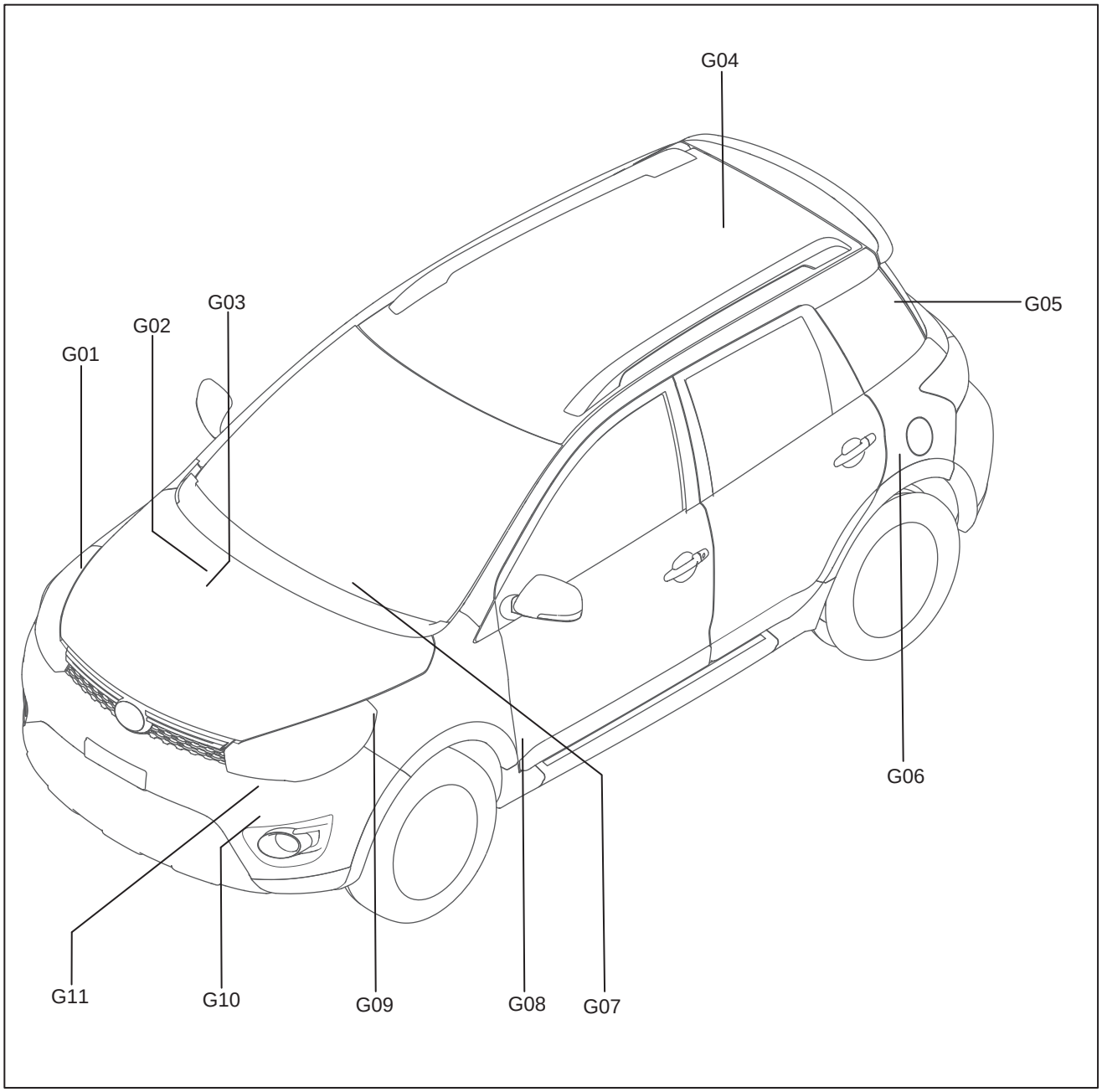
Fuse Numbering and Parameters

No.	Name	Fusing Current (A)
J01	Master relay	---
J02	Oil Pump Relay	---
J03	Horn Relay	---
J04	Fan Low-Speed Relay	---
J05	Reserved	---
J06	Starting Relay	---
J07	High Beam Relay	---
J08	Low Beam Relay	---
J09	Reserved	---
J10	Fan high-speed relay	---
F29	Starter	30
F30	Master Relay	25
F31	Oil Pump	15
F32	Fan Low-Speed Relay	30

No.	Name	Fusing Current (A)
F41	Reserved (MT)	---
	TCU(AMT)	15
F34	Fan high-speed relay	40
F35	Horn	15
F36	High Beam	15
F37	Low Beam	15
F38	Engine ECU	10
F39	ABS	25
F33	AM2	15
F4 5	Standby	10
F46	Standby	15
F47	Standby	25

Vehicle Grounding Location and Wiring

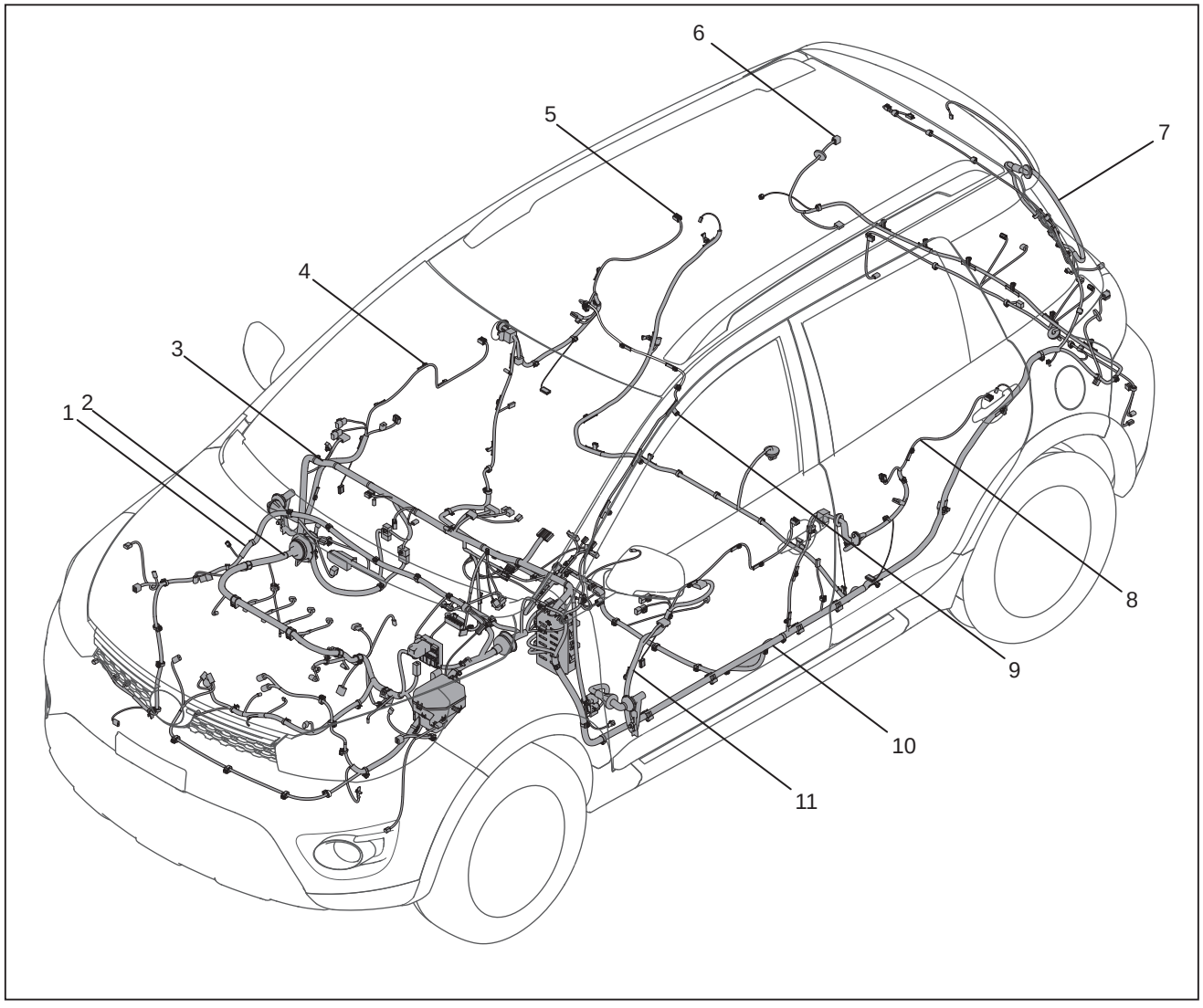
Grounding Schematics



Codes and Meaning:

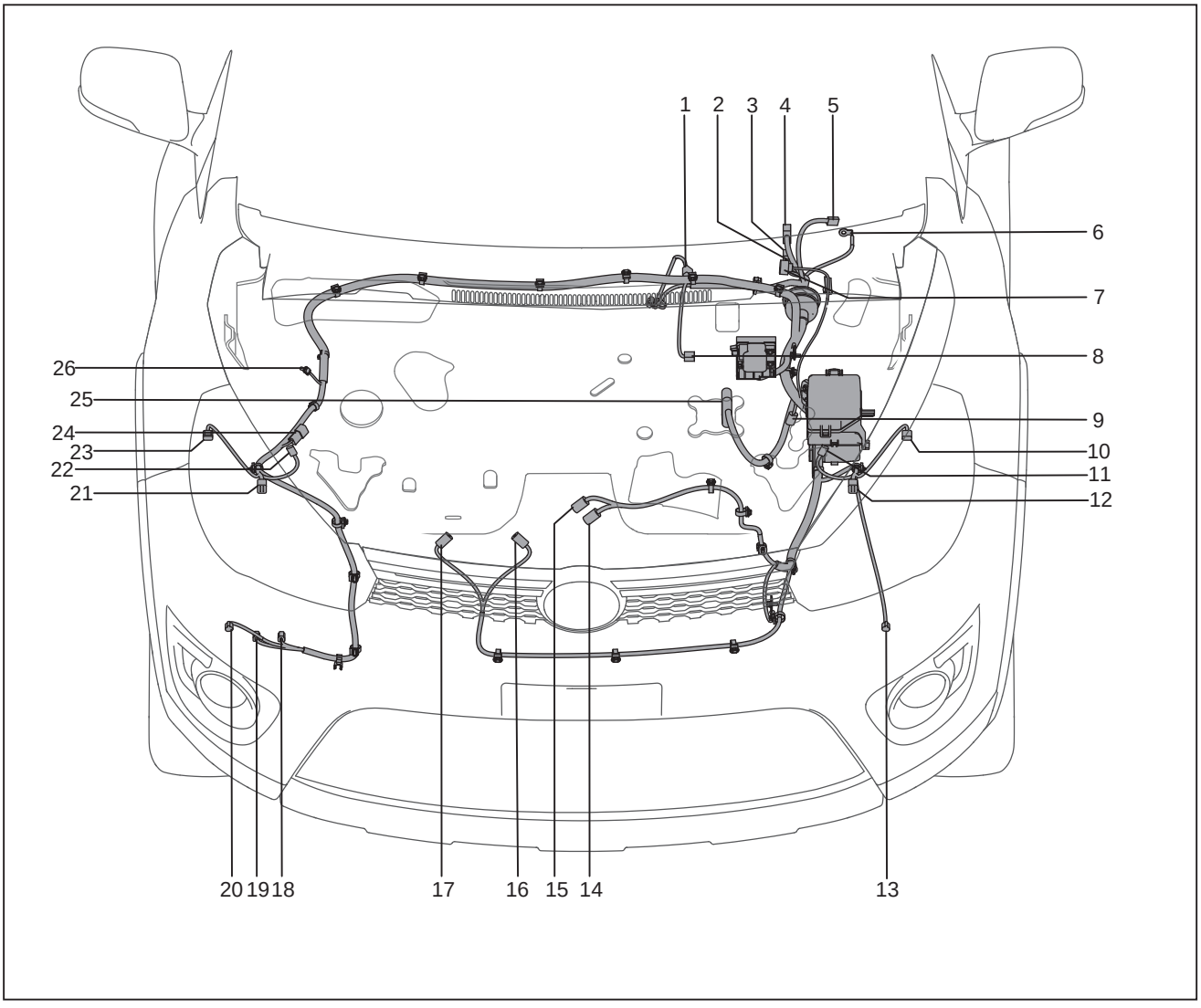
No.	Grounding Location	Remarks
G01	In the left fender of the engine compartment	Engine compartment harness
G02, G03	At the upper side of the right A-pillar harness fixer	Engine, instrument panel harness
G04	Near the right rear combination light	Vehicle body harness
G05	Near the rear wiper motor	Liftgate harness assembly
G06	Left rear fender	Vehicle body harness
G7	Near the front part of the auxiliary instrument panel	Airbag grounding point
G08	At the lower side of the left A-pillar harness fixer	Instrument harness
G09	In the right fender of the engine compartment	Engine compartment harness
G10, G11	Near the storage battery tray	Storage battery grounding harness

Harness Wiring Diagram
Vehicle Harnesses



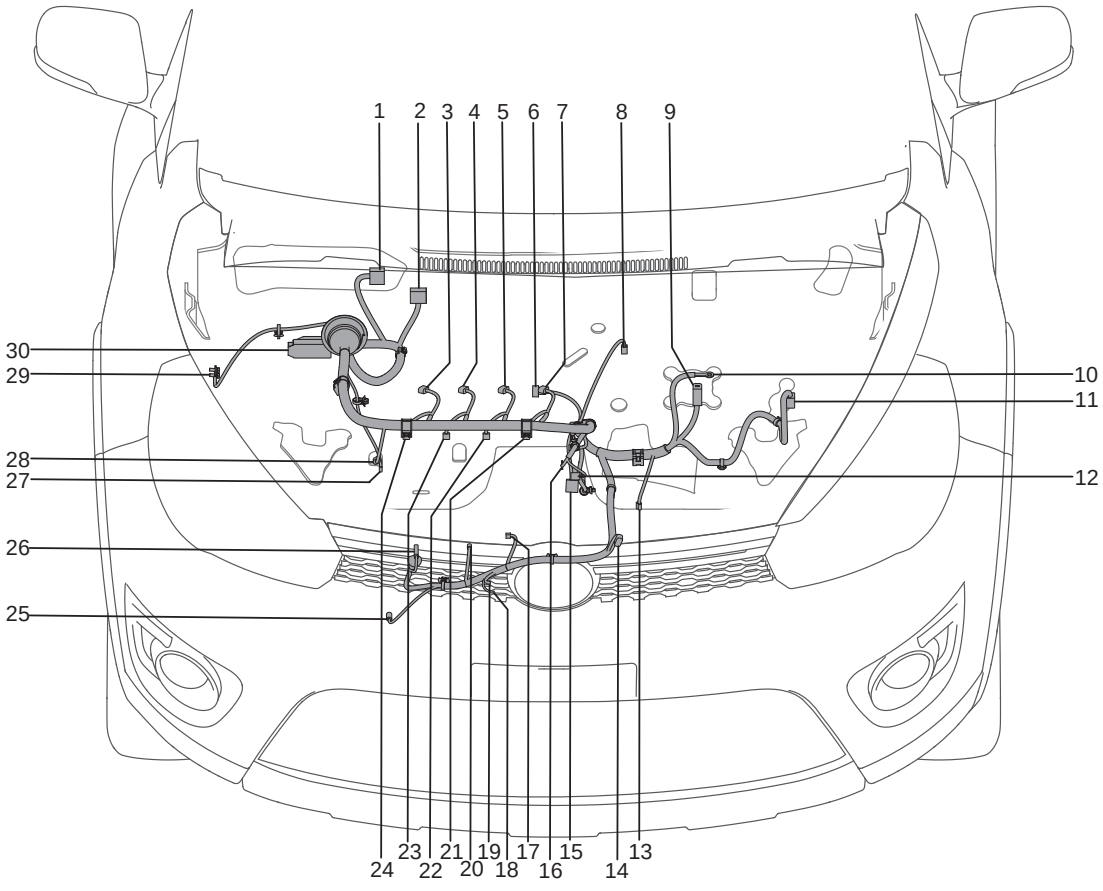
1. Front Engine Compartment Harness
2. Engine Harness
3. Instrument Panel Harness
4. Right Front Door Harness
5. Right Rear Door Harness
6. Vehicle Rear Harness
7. Liftgate Harness
8. Left Rear Door Harness
9. Ceiling Harness
10. Vehicle Body Chassis Harness
11. Left Front Door Harness

Engine Compartment Harnesses



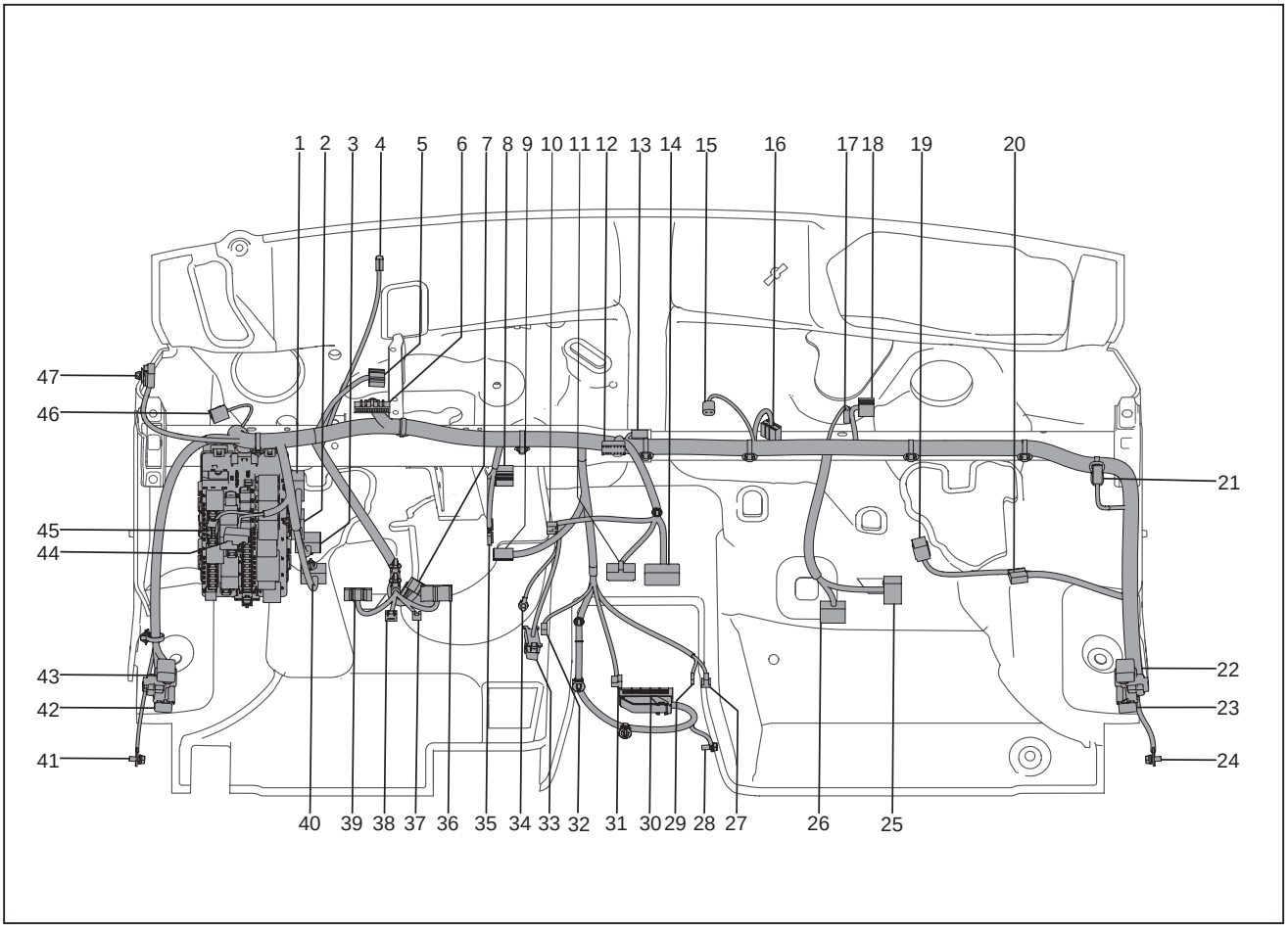
1. Connected to brake light switch
2. Connected to clutch switch
3. Connected to instrument panel harness A
4. Connected to instrument panel harness B
5. Connected to fuse box I
6. Connected to vehicle body harness
7. Connected to front wiper motor
8. Connected to brake fluid level warning switch
9. Connected to left front wheel speed sensor
10. Connected to left front combination light
11. Front left turn light
12. Headlight height adjustment motor
13. Connected to left front fog light
14. 14.Connected to radiator fan motor 2
15. Connected to radiator fan motor 1
16. Connected to tweeter
17. Connected to woofer
18. Connected to rear washer motor
19. Connected to front washer motor
20. Connected to right front fog light
21. Connected to right front combination light
22. Connected to right turn light
23. Connected to headlight height adjustment motor
24. Connected to front right wheel speed sensor
25. Connected to ABS
26. Connected to grounding rod

Engine Harness



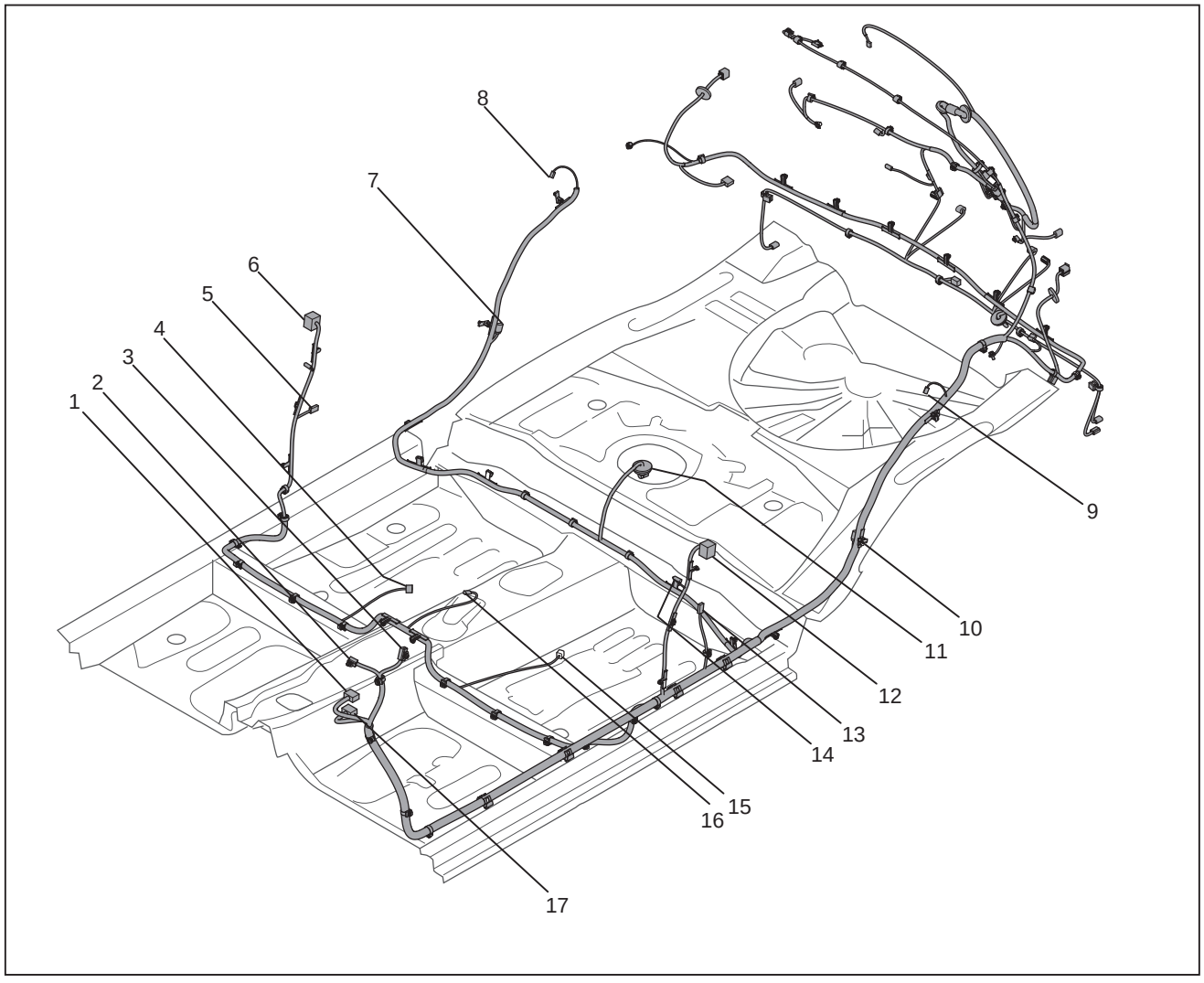
1. Connected to instrument harness B
2. Connected to instrument harness A
3. Connected to cylinder 1# ignition coil
4. Connected to cylinder 2# ignition coil
5. Connected to 3-cylinder ignition coil
6. Connected to front oxygen sensor
7. Connected to 4-cylinder ignition coil
8. Connected to charcoal canister solenoid valve
9. Connected to storage battery positive terminal fuse box
10. Connected to storage battery positive terminal
11. Connected to front engine compartment
12. Connected to engine speed sensor
13. Connected to reverse switch
14. Connected to electronic throttle valve
15. Connected to coolant temperature sensor
16. Connected to air inlet pressure temperature sensor
17. Connected to starter
18. Connected to knock sensor
19. Connected to starter excitation
20. Connected to engine oil pressure switch
21. Connected to nozzle #3
22. Connected to nozzle #2
23. Connected to nozzle #4
24. Connected to nozzle #1
25. Connected to compressor
26. Connected to power generator
27. Connected to VVT valve
28. Connected to power steering
29. Connected to grounding rod
30. Connected to engine ECU

Instrument Panel Harness



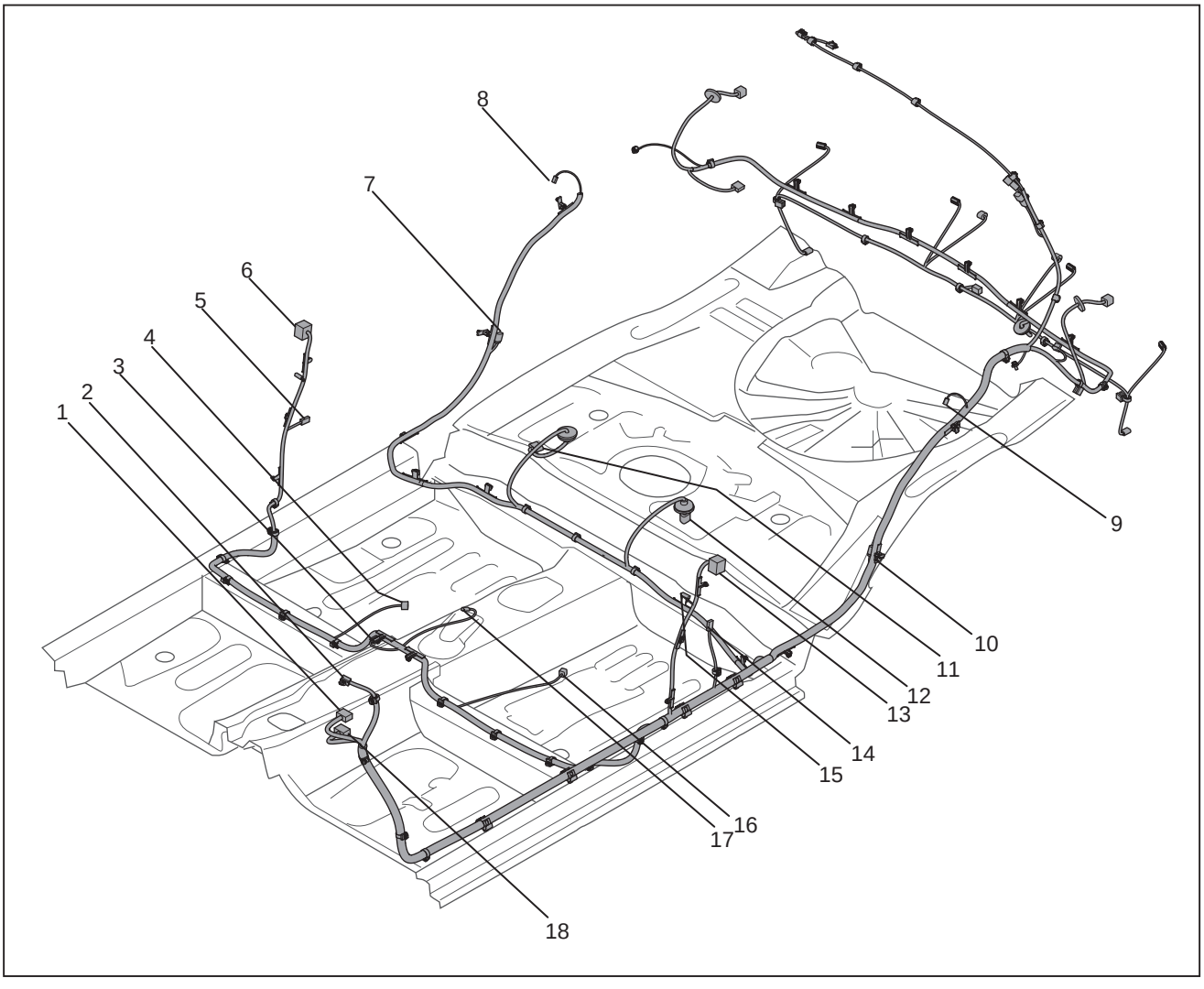
1. Connected to engine compartment harness B
2. Connected to engine compartment harness A
3. Connected to vehicle body harness B
4. Connected to anti-theft indicator
5. Connected to anti-theft ECU
6. Connected to combination instrument A
7. Connected to ignition switch
8. Connected to mode damper actuator
9. Connected to center door lock controller
10. Connected to hazard alarm switch
11. Connected to A/C speed adjustment switch
12. Connected to storage battery positive terminal fuse box
13. Connected to fuse box III
14. Connected to ABS control unit
15. Connected to engine ECU
16. Connected to thermoregulation damper actuator
17. Connected to A/C temperature sensor
18. Connected to circulation damper actuator
19. Connected to speed regulation resistance
20. Connected to blower
21. Connected to front passenger airbag
22. Connected to right front door harness B
23. Connected to right front door harness A
24. Connected to grounding rod
25. Connected to engine harness A
26. Connected to glove box light
27. Connected to cigarette lighter
28. Connected to grounding rod
29. Connected to cigarette lighter lighting
30. Connected to airbag ECU
31. Connected to on-board power supply
32. Connected to interior temperature sensor
33. Connected to diagnosis connecting port
34. Connected to grounding rod
35. Connected to accelerator pedal
36. Connected to combination switch (wiper)
37. Connected to airbag, horn switch
38. Connected to steering wheel volume control switch
39. Connected to combination switch (lighting)
40. Connected to vehicle body harness A
41. Connected to grounding rod
42. Connected to left front door harness A
43. Connected to left front door harness B
44. Connected to rear-view mirror adjusting switch
45. Connected to headlight height adjustment switch
46. Connected to vehicle body harness C
47. Connected to ceiling harness

Chassis Harness -S56



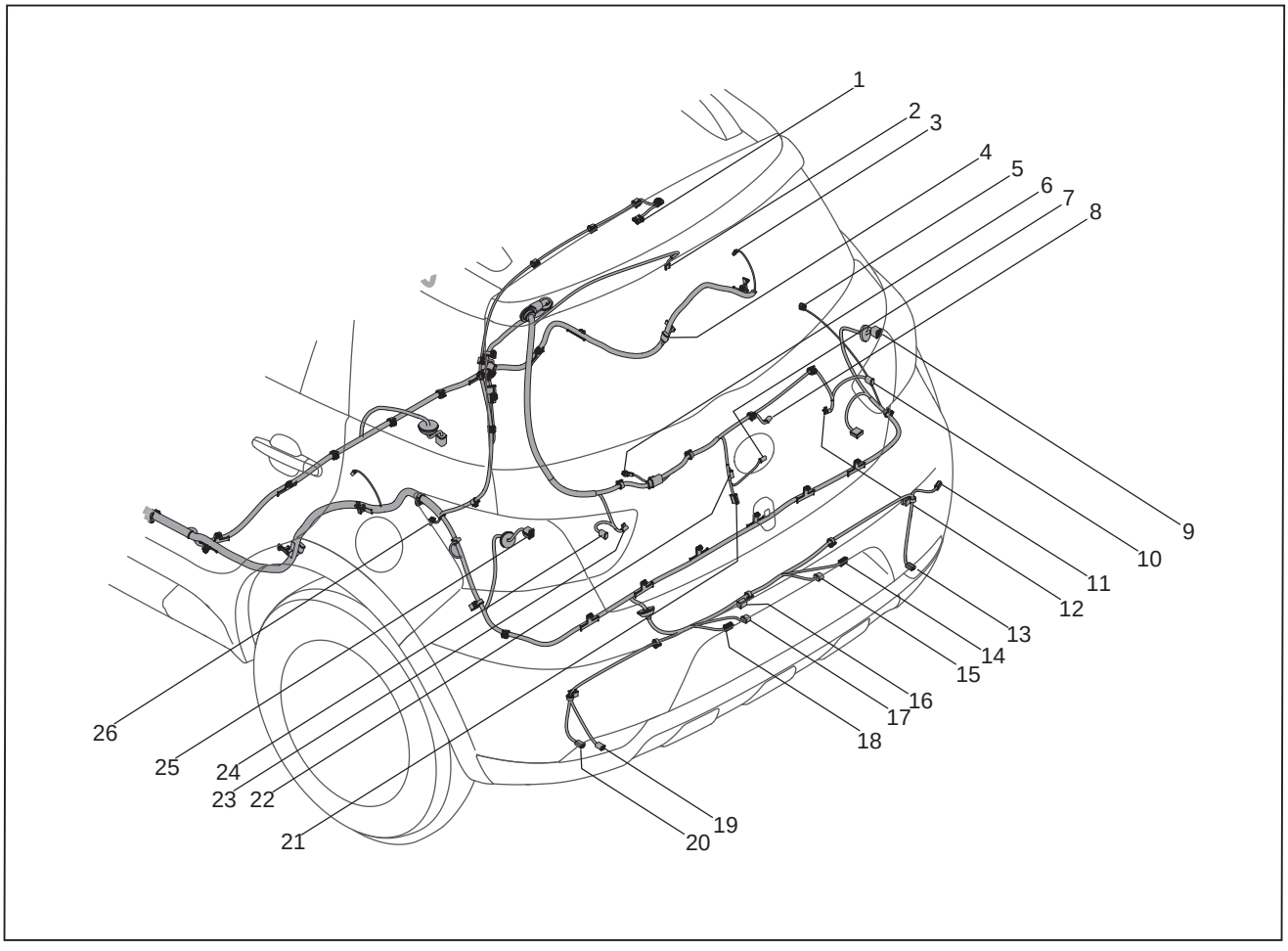
1. Connected to instrument harness A
2. Connected to engine compartment harness
3. Connected to ceiling harness
4. Connected to front passenger seat belt switch
5. Connected to right front door light switch
6. Connected to right rear door harness
7. Connected to right rear wheel speed sensor
8. Connected to right rear door light switch
9. Connected to left rear door light switch
10. Connected to left rear wheel speed sensor
11. Connected to oil pump, fuel sensor
12. Connected to left rear door harness
13. Connected to driver seat belt pre-tensioner
14. Connected to left front door light switch
15. Connected to driver seat belt switch
16. Connected to parking brake switch
17. Connected to instrument panel harness B

Chassis Harness -S62



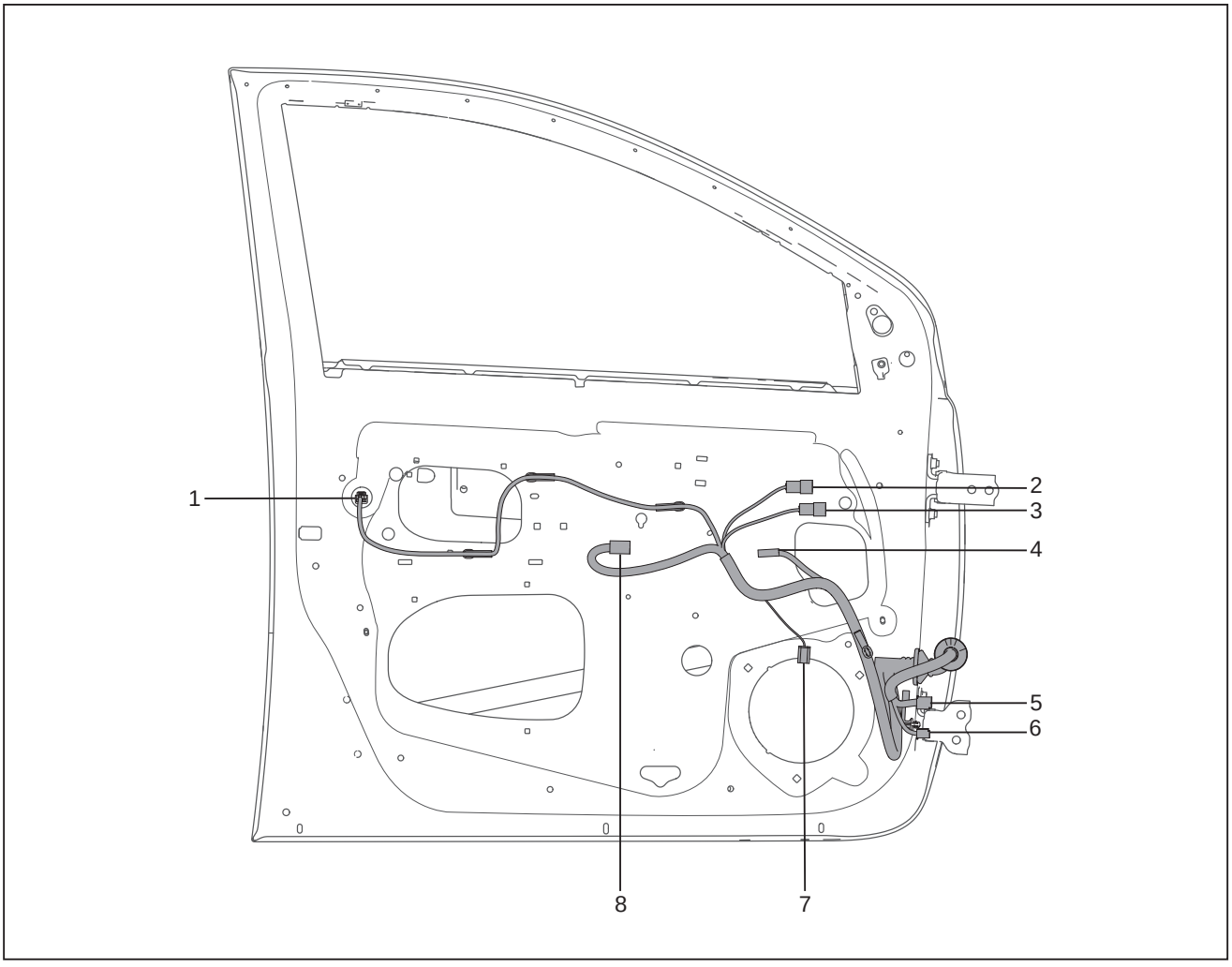
1. Connected to instrument harness A
2. Connected to engine compartment harness
3. Connected to acceleration sensor
4. Connected to front passenger seat belt switch
5. Connected to right front door light switch
6. Connected to right rear door harness
7. Connected to right rear wheel speed sensor
8. Connected to right rear door light switch
9. Connected to left rear door light switch
10. Connected to left rear wheel speed sensor
11. Fuel sensor
12. Connected to oil pump
13. Connected to left rear door harness
14. Connected to driver seat belt pre-tensioner
15. Connected to left front door light switch
16. Connected to driver seat belt switch
17. Connected to parking brake switch
18. Connected to instrument panel harness B

Vehicle Body Rear Harness



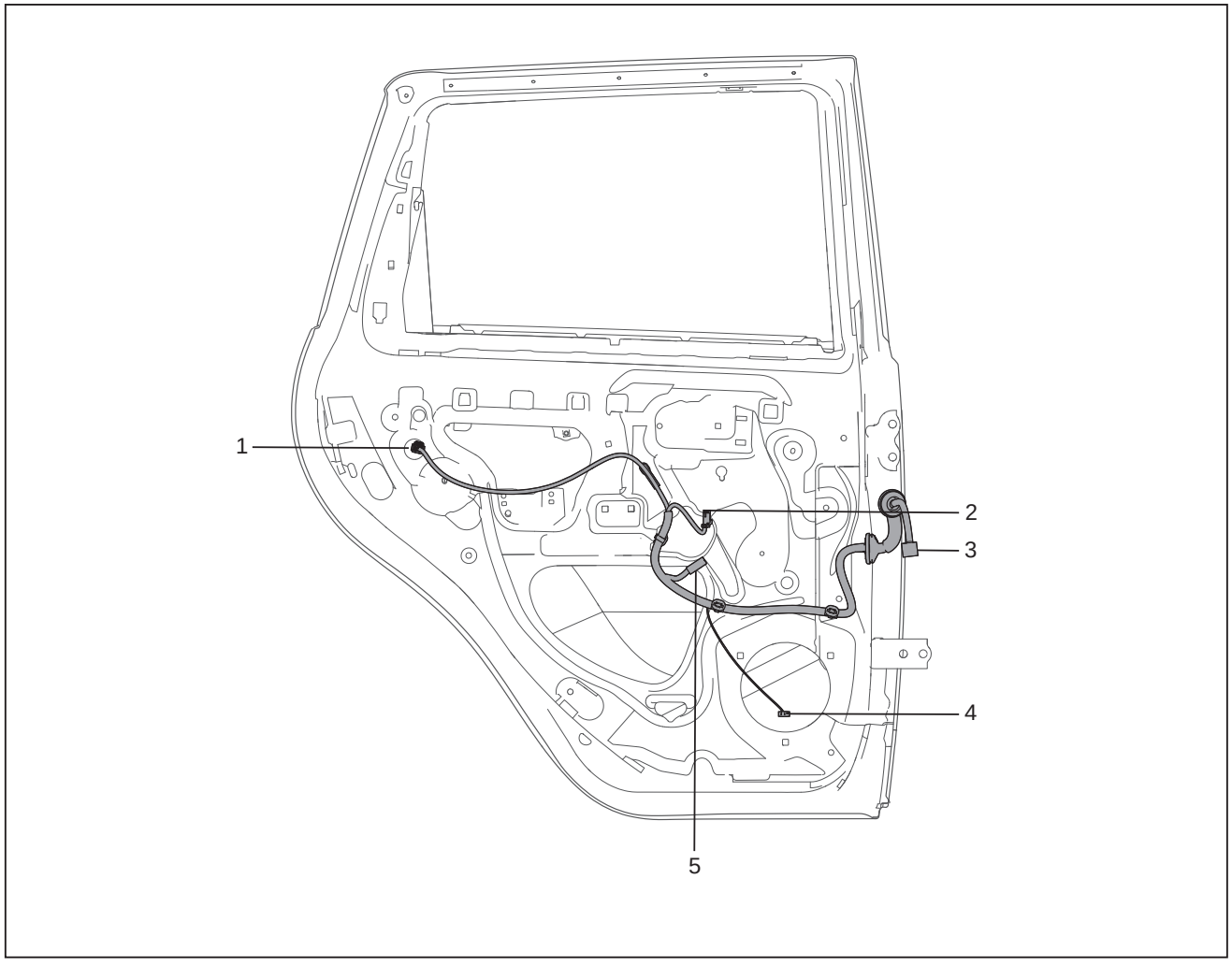
1. Connected to rear-view mirror interior ceiling light
2. Connected to high-mount brake light
3. Connected to right rear door light switch
4. Connected to right rear wheel speed sensor
5. Connected to grounding rod
6. Connected to grounding rod
7. Connected to liftgate light switch
8. Connected to rear wiper motor
9. Connected to right rear combined light
10. Connected to right rear position light
11. Connected to reverse radar
12. Connected to rear defroster harness
13. Connected to right rear fog light
14. Connected to right license plate light
15. Connected to reversing radar
16. Connected to reversing camera
17. Connected to reversing radar
18. Connected to left license plate light
19. Connected to reversing radar
20. Connected to left rear fog light
21. Connected to liftgate lock motor
22. Connected to liftgate opening switch
23. Connected to left rear position light
24. Connected to rear defroster harness
25. Connected to left rear combination light
26. Connected to grounding rod

Front Door Harness



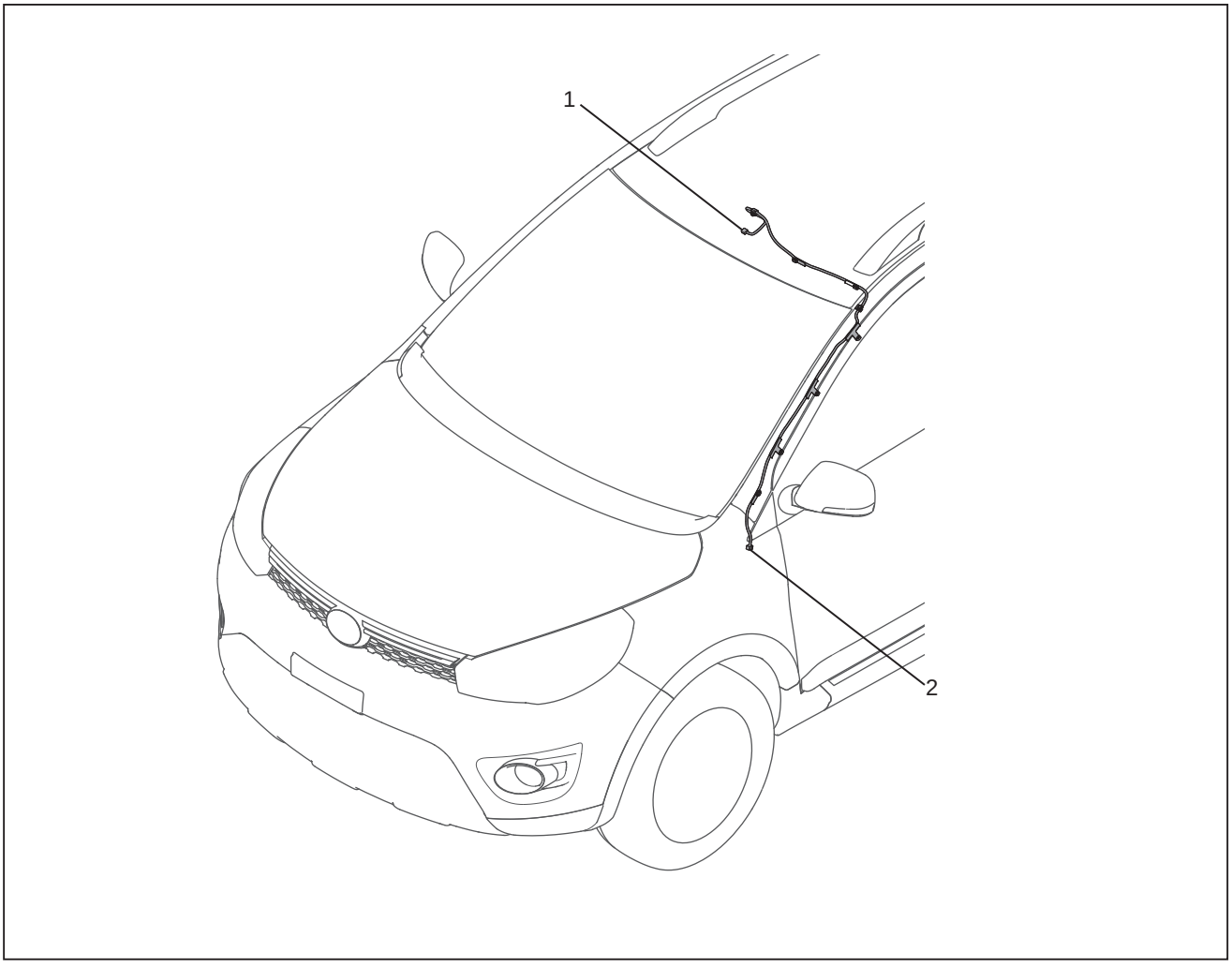
1. Connected to left front door lock motor
2. Connected to left front tweeter
3. Connected to electric rear-view mirror
4. Connected to window regulator
5. Connected to instrument harness A
6. Connected to instrument harness B
7. Connected to left front middle woofer
8. Connected to left front door window regulator switch

Rear Door Harness



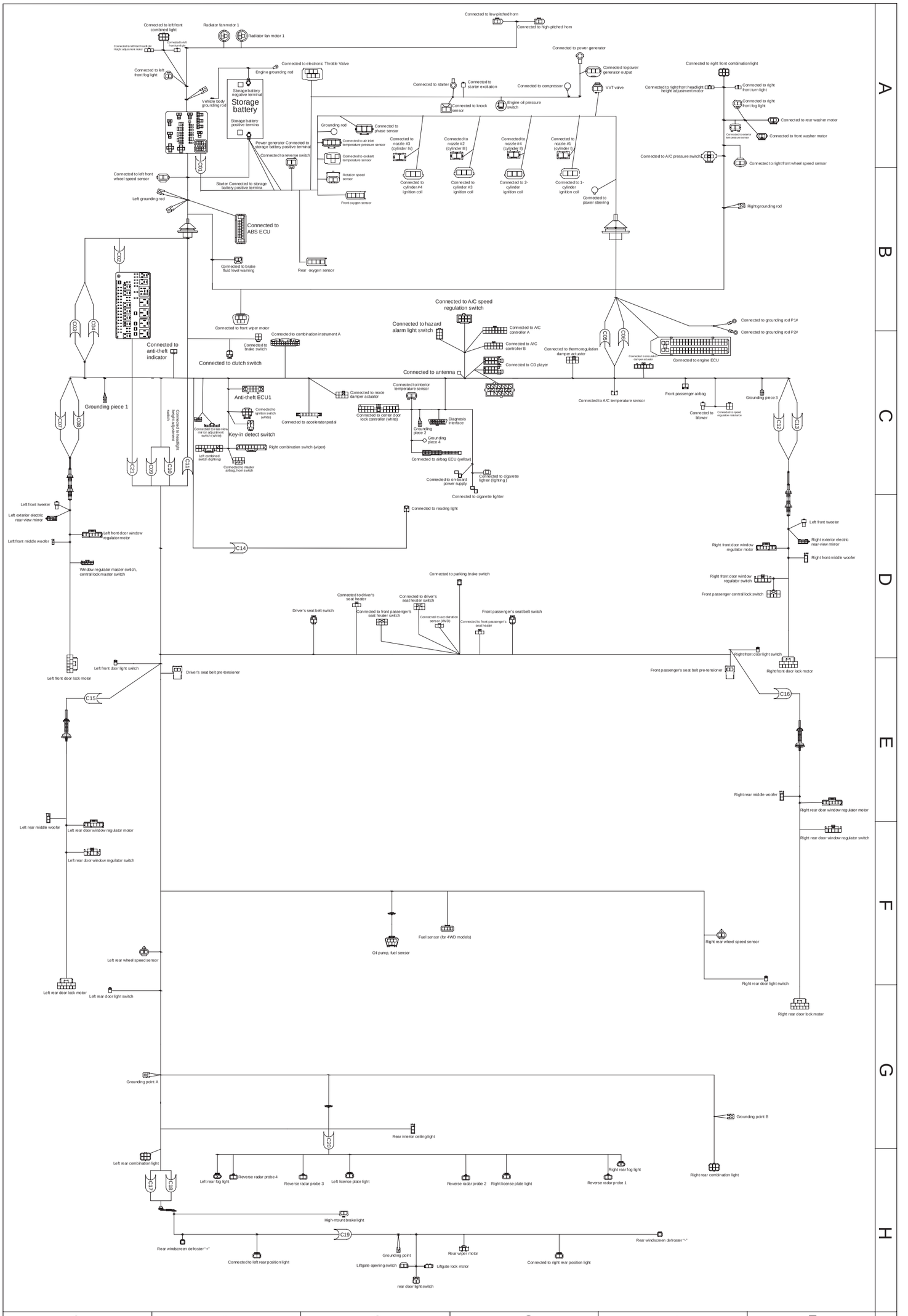
1. Connected to door lock motor
2. Connected to window regulator motor
3. Connected to vehicle body harness
4. Connected to tweeter
5. Connected to rear door window regulator switch

Ceiling Harness



1. Connected to reading light
2. Connected to instrument harness

Harness Relationship Schematics
Connectors

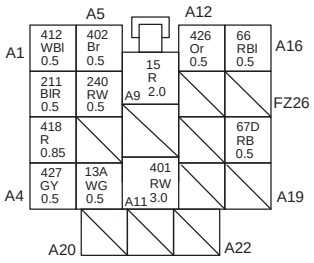


Index of Connectors

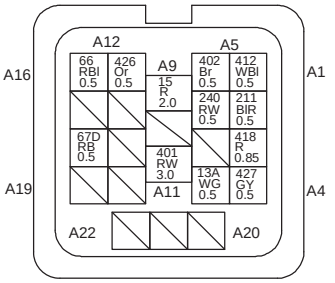
Connector No.	Location	Connector No.	Location
01	A1	12	C5
02	B0	13	C5
03	B0	14	D1
04	B0	15	E0
05	C4	16	E5
06	C4	17	H0
07	C0	18	H1
08	C0	19	H2
09	C0	20	G2
10	C1	21	C0
11	C1	---	---

Function Diagram for Harness Connector Pins

01



Connected to front compartment harness



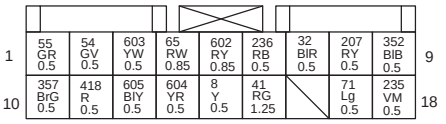
Connected to engine harness

02

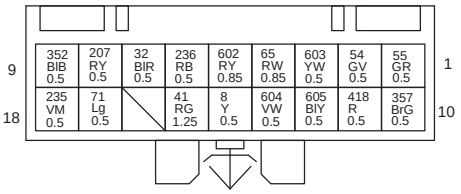
Connected to engine compartment harness

Connected to Fuse Box I

03

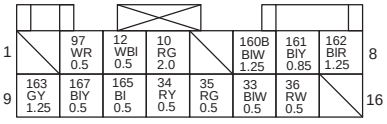


Connected to instrument panel harness A

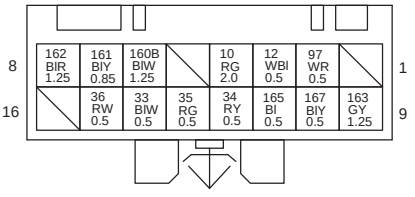


Connected to engine compartment harness A

04

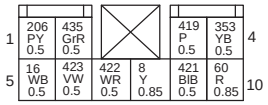


Connected to instrument panel harness B

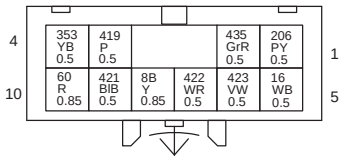


Connected to engine compartment harness B

05

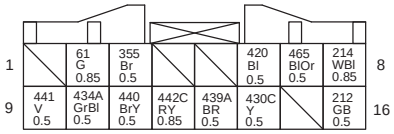


Connected to instrument harness A

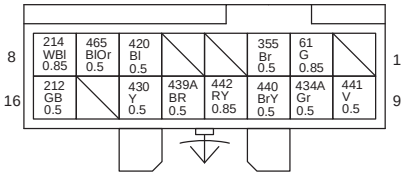


Connected to engine harness A(white)

06

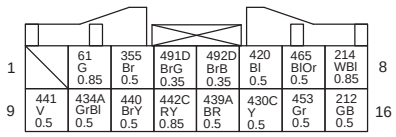


Connected to instrument harness B

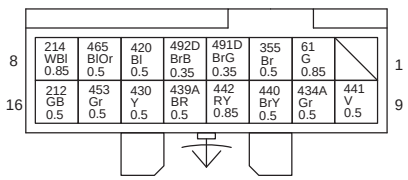


Connected to engine harness B(white)

06 (HYUN dynamic version)

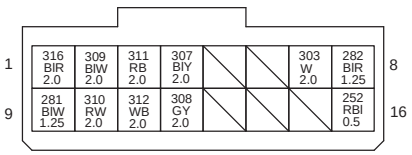


Connected to instrument harness B

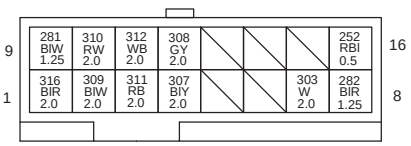


Connected to engine harness B(white)

07

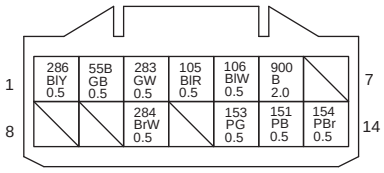


Connected to instrument harness A

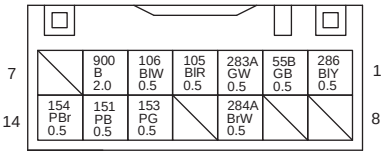


Connected to left front door harnessA(white)

08

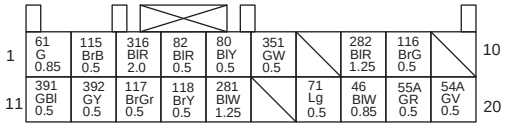


Connected to instrument harness B

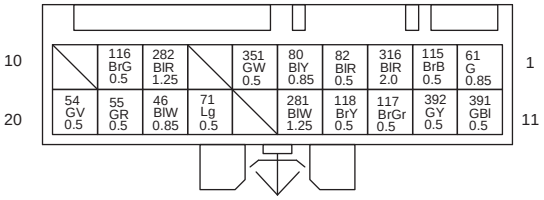


Connected to left front door harness B

09

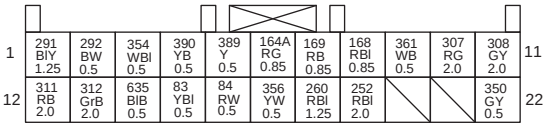


Connected to instrument panel harness A

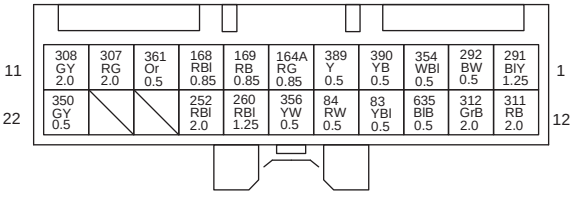


Connected to vehicle body harness A

10

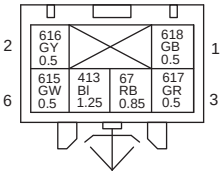


Connected to instrument panel harness B

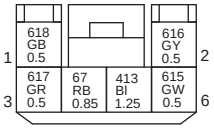


Connected to vehicle body harness B

11

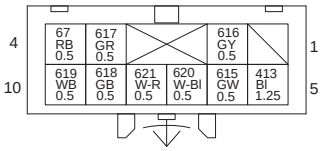


Connected to engine compartment harness

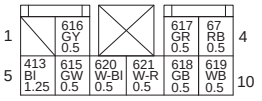


Connected to vehicle body harness

11 (for 4WD models)

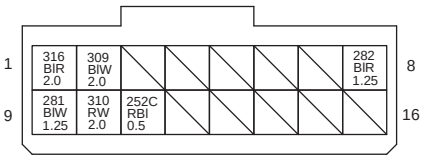


Connected to engine compartment harness

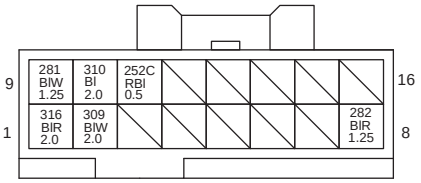


Connected to vehicle body harness

12

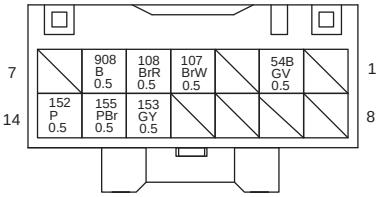


Connected to instrument harness A

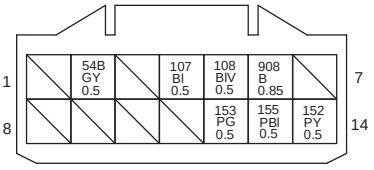


Connected to right front door harness A

13

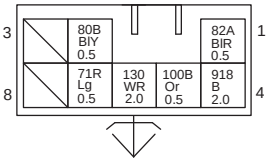


Connected to right front door harness B

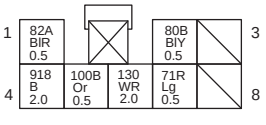


Connected to instrument harness B

14

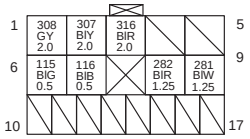


Connected to ceiling harness

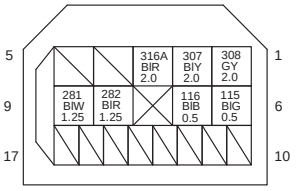


Connected to vehicle body harness

15

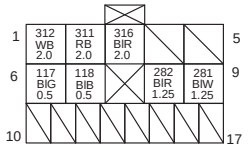


Connected to vehicle body harness

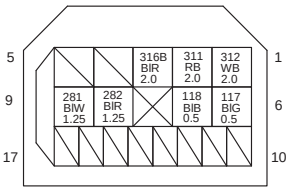


Connected to left rear door harness

16

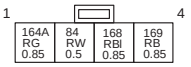


Connected to vehicle body harness

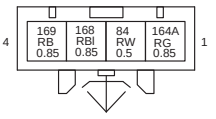


Connected to right rear door

17

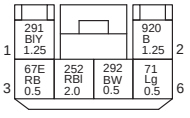


Connected to vehicle body harness A

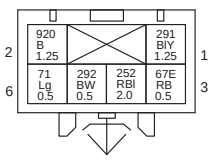


Connected to liftgate harness A

18

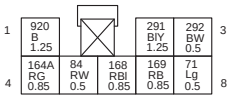


Connected to vehicle body harness B

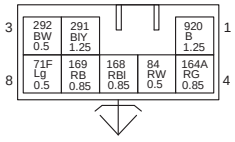


Connected to liftgate harness B

19

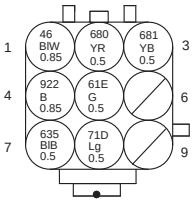


Connected to liftgate harness II

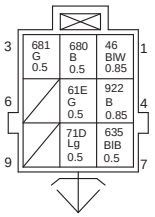


Connected to liftgate harness I

20

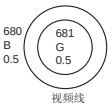


Connected to rear bumper harness



Connected to vehicle body harness

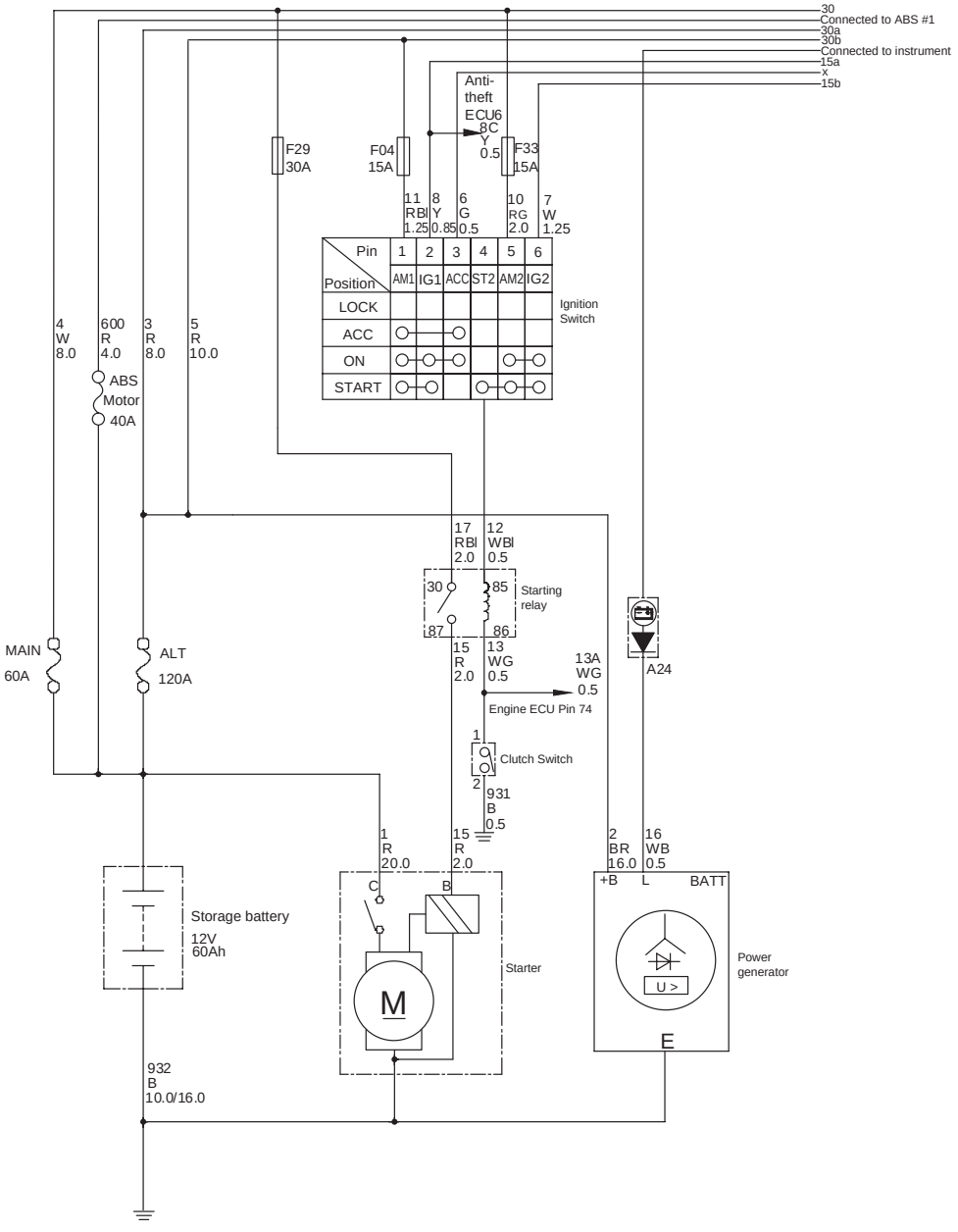
21



Connected to instrument harness C

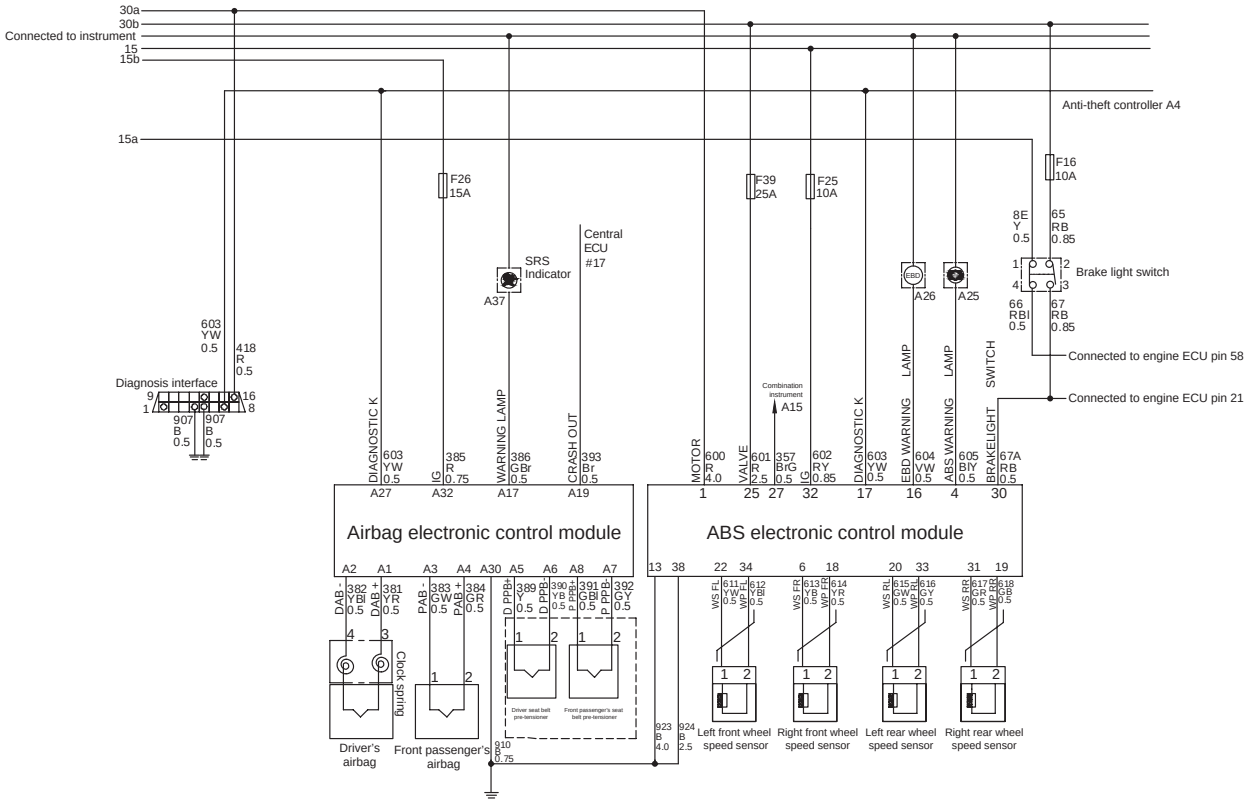
Connected to vehicle body harness C

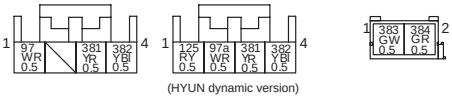
Vehicle Circuit Diagram
Power Supply and Start-up System



Connected to ignition switch (white) | Power | Clutch switch

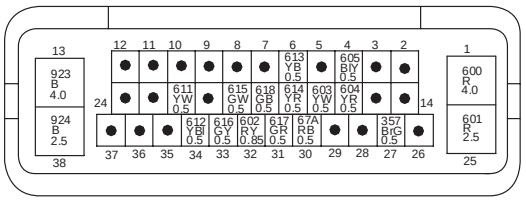
Airbag, ABS System – for MT 2WD models



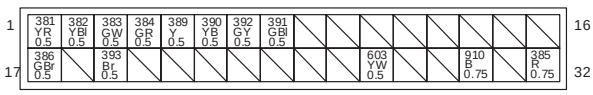


Connected to master airbag, horn switch

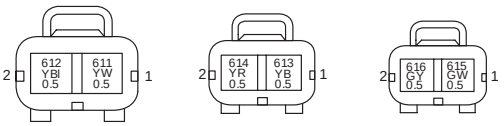
Connected to front passenger's airbag



ABS ECU



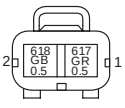
Airbag ECU (yellow)



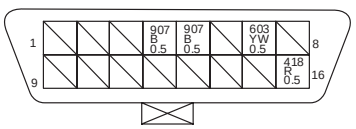
Connected to left front wheel speed sensor

Connected to right front wheel speed sensor

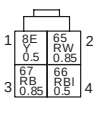
Connected to left rear wheel speed sensor



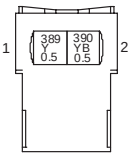
Connected to right rear wheel speed sensor



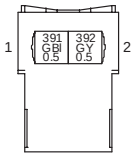
Diagnosis interface (MT)



Brake light switch (MT)

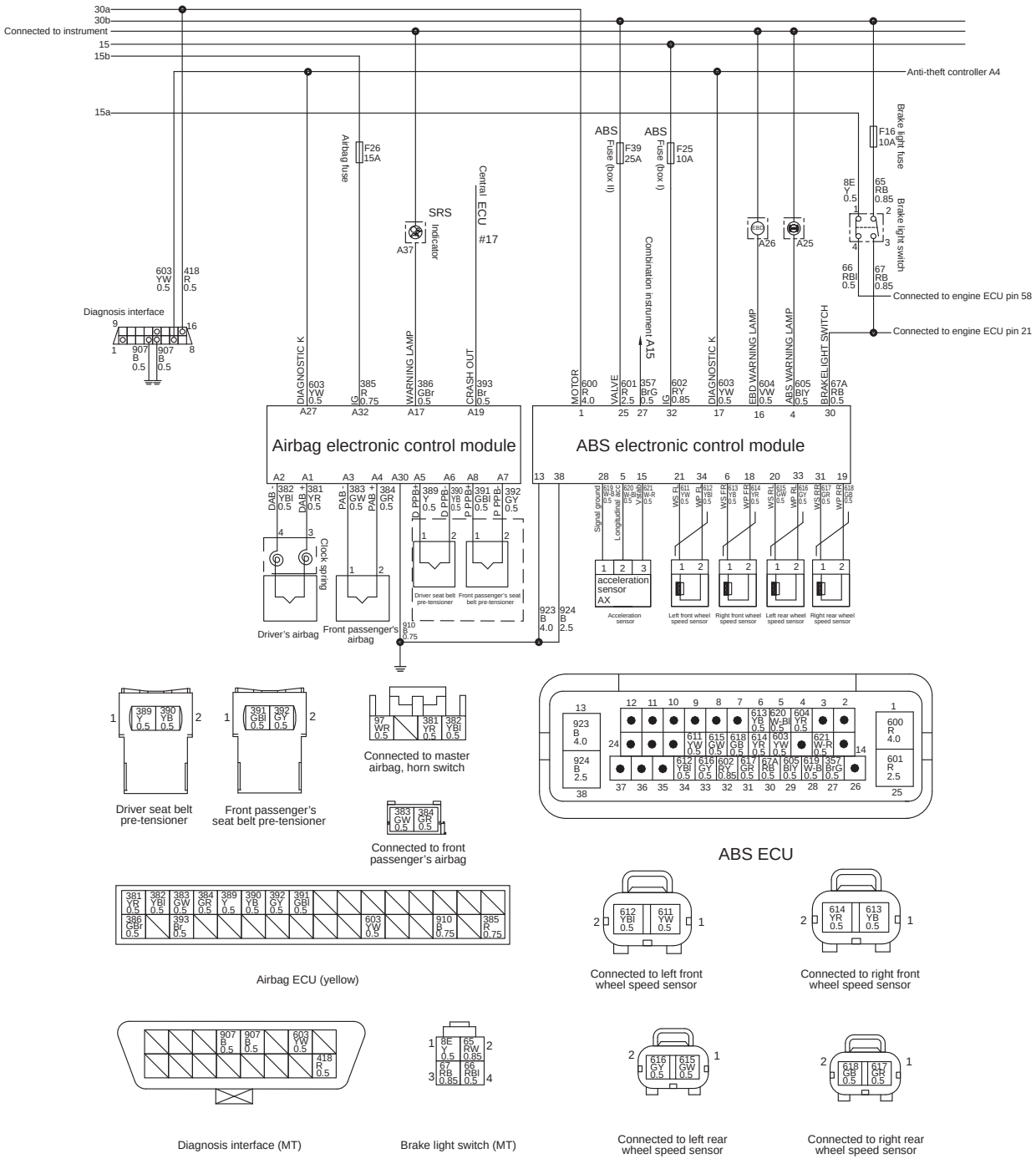


Driver seat belt pre-tensioner

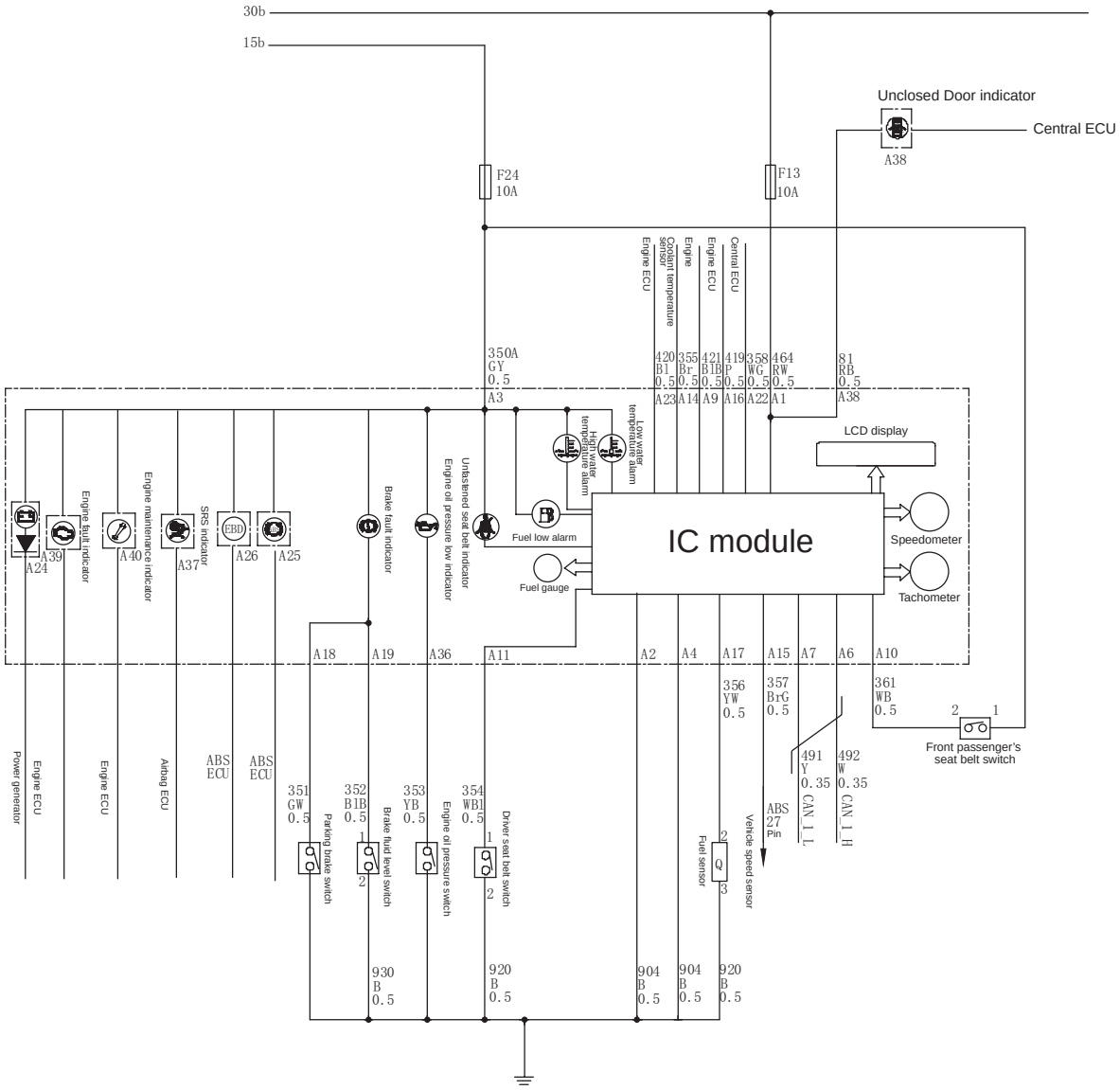


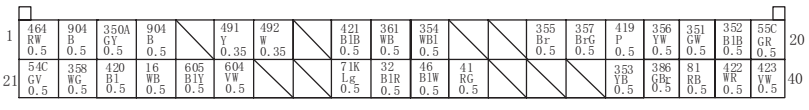
Front passenger's seat belt pre-tensioner

Airbag, ABS System – for 4WD models

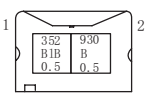


Combined Instrument System – for MT 2WD models

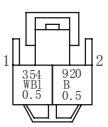




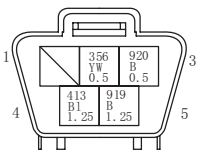
Connected to combination instrument A(white)



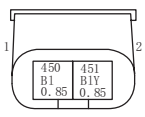
Connected to brake fluid level warning switch



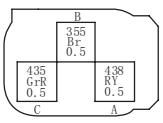
Connected to driver's seat belt switch



Connected to oil pump, fuel sensor

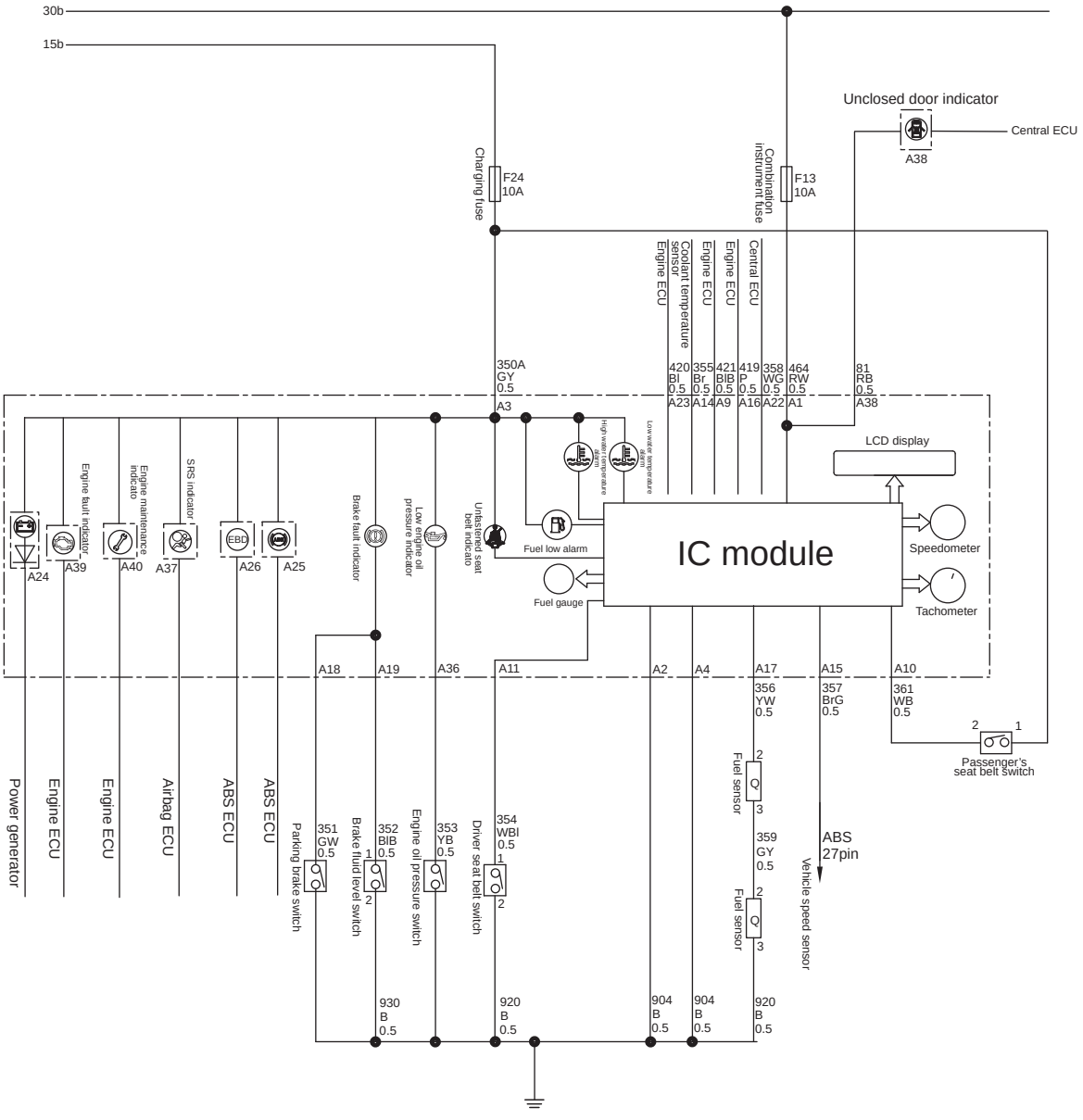


Connected to engine speed sensor



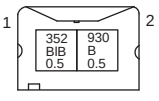
Connected to coolant temperature sensor

Combined Instrument System – for 4WD models

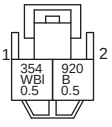


464 RW 0.5	904 B 0.5	350A GY 0.5	904 B 0.5					421 BlB 0.5	361 WB 0.5	354 WBl 0.5			355 Br 0.5	357 BrG 0.5	419 P 0.5	356 YW 0.5	351 GW 0.5	352 BlB 0.5	55C GR 0.5
54C GV 0.5	358 WG 0.5	420 Bl 0.5	16 WB 0.5	605 BlY 0.5	604 VW 0.5			71K Lg 0.5	32 BlR 0.5	46 BlW 0.5	41 RG 0.5				353 YB 0.5	386 GBr 0.5	81 RB 0.5	422 WR 0.5	423 VW 0.5

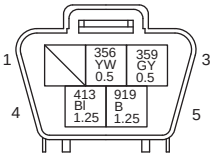
Connected to combination instrument A (white)



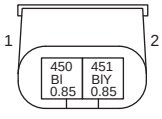
Connected to brake fluid level warning switch



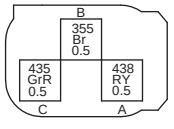
Connected to driver seat belt switch



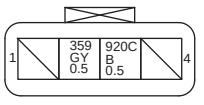
Connected to oil pump, fuel sensor



Connected to engine speed sensor

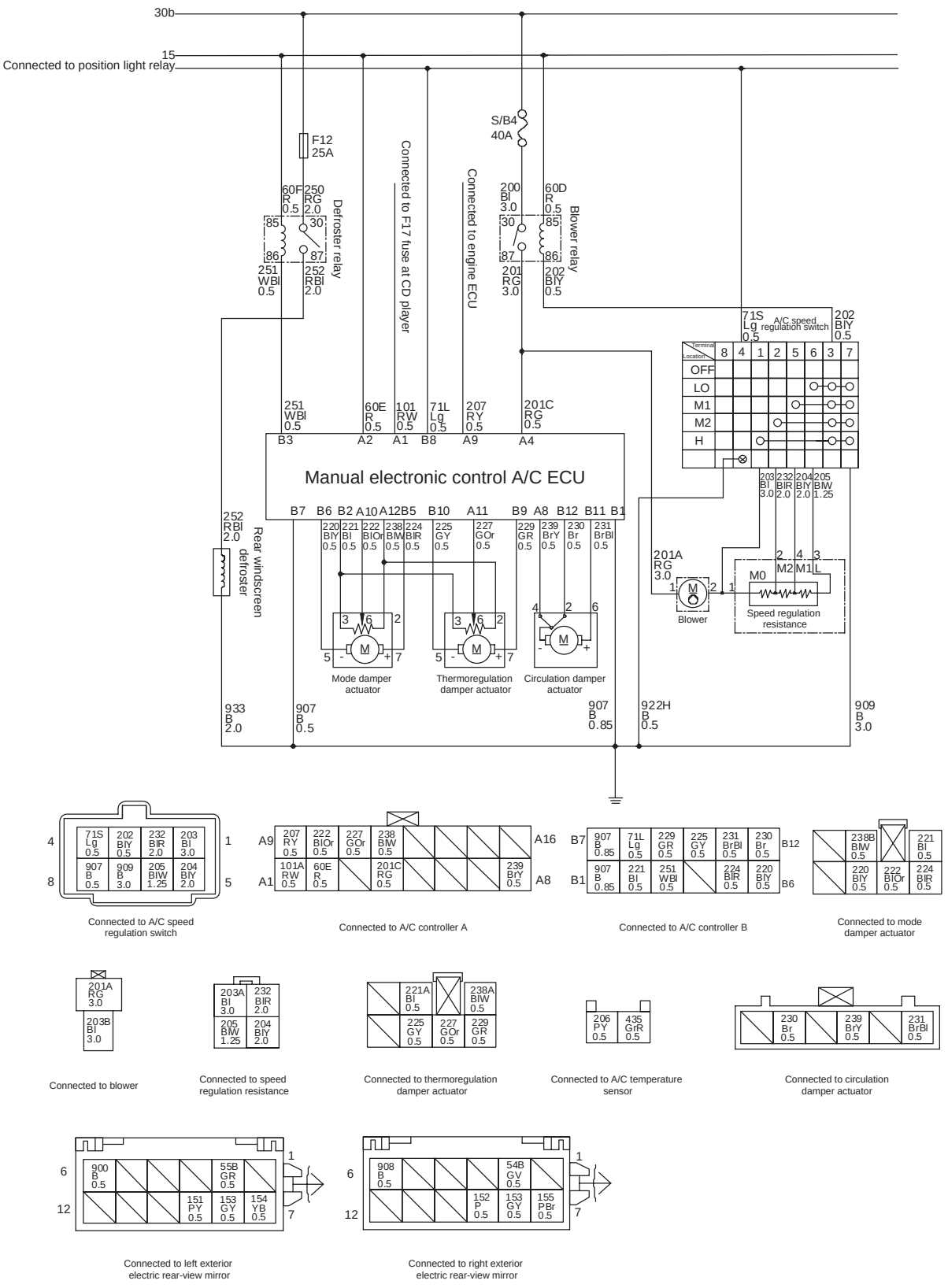


Connected to coolant temperature sensor

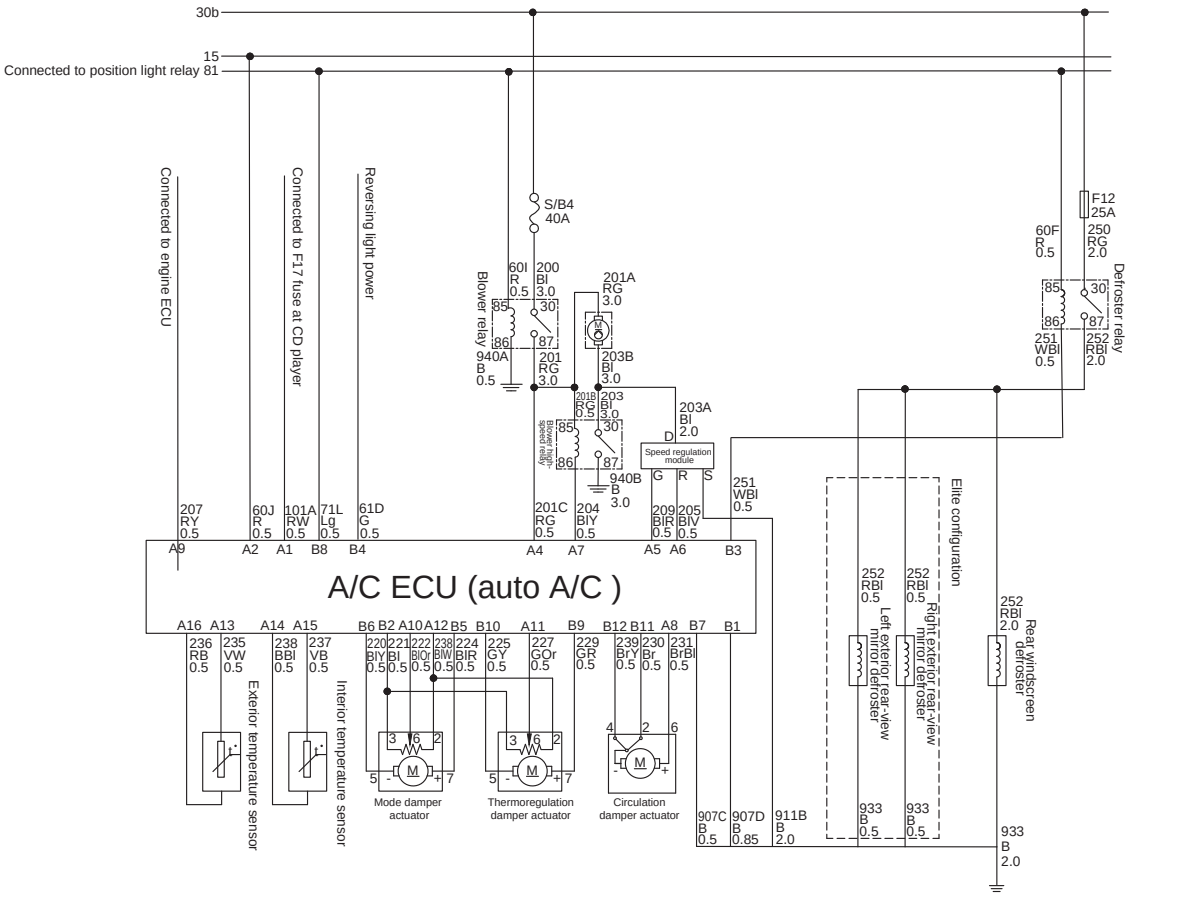


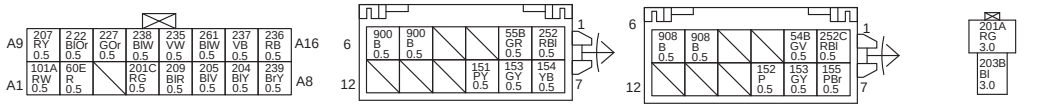
Connected to fuel sensor

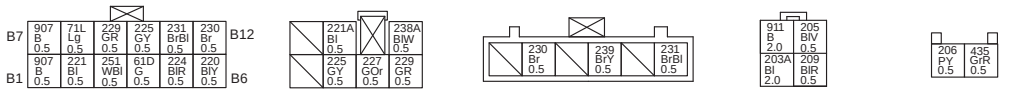
A/C, Defroster System (electric)

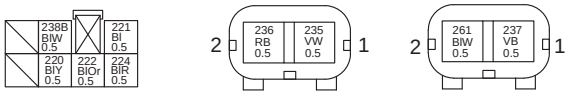


A/C, Defroster System (auto)

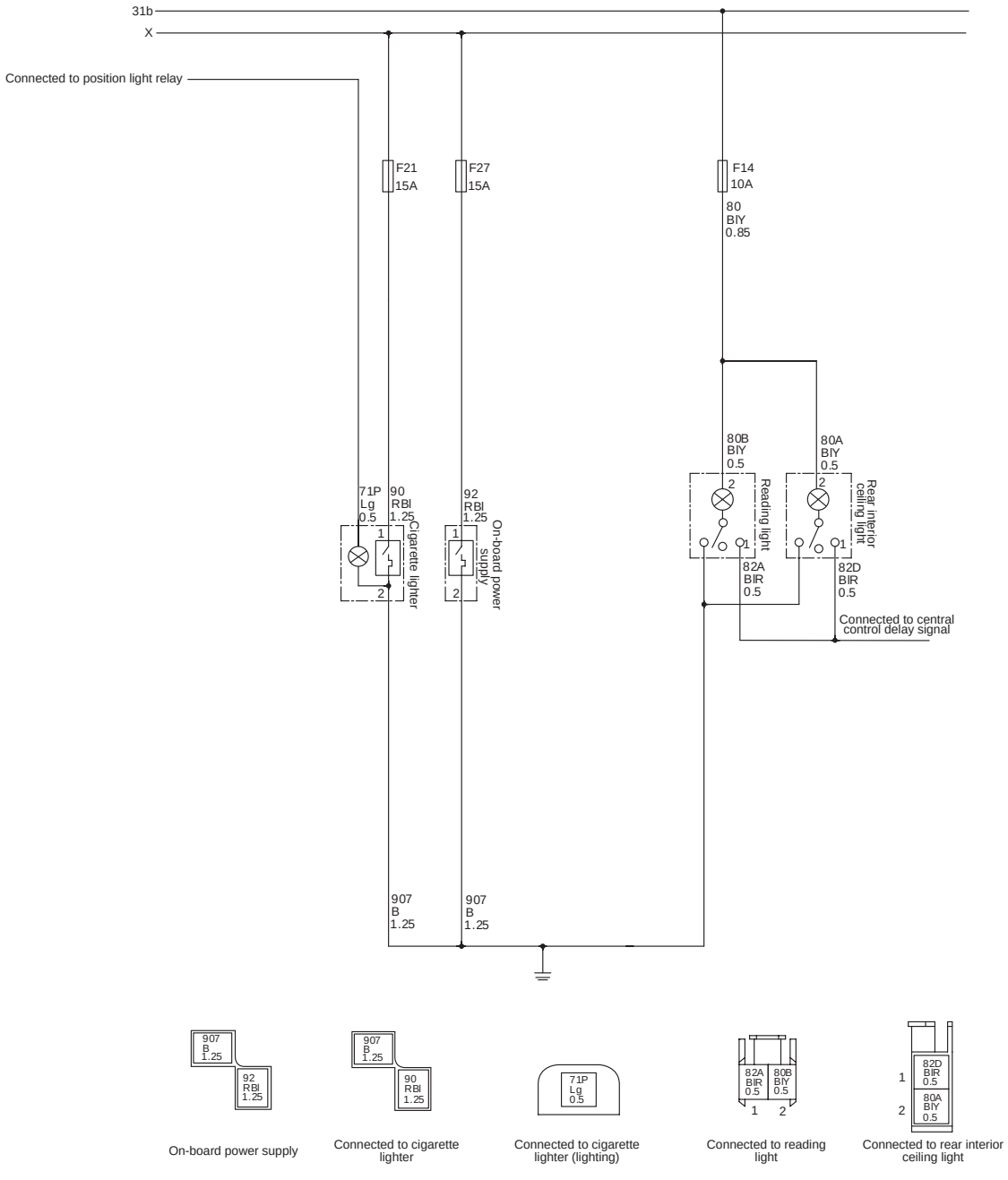




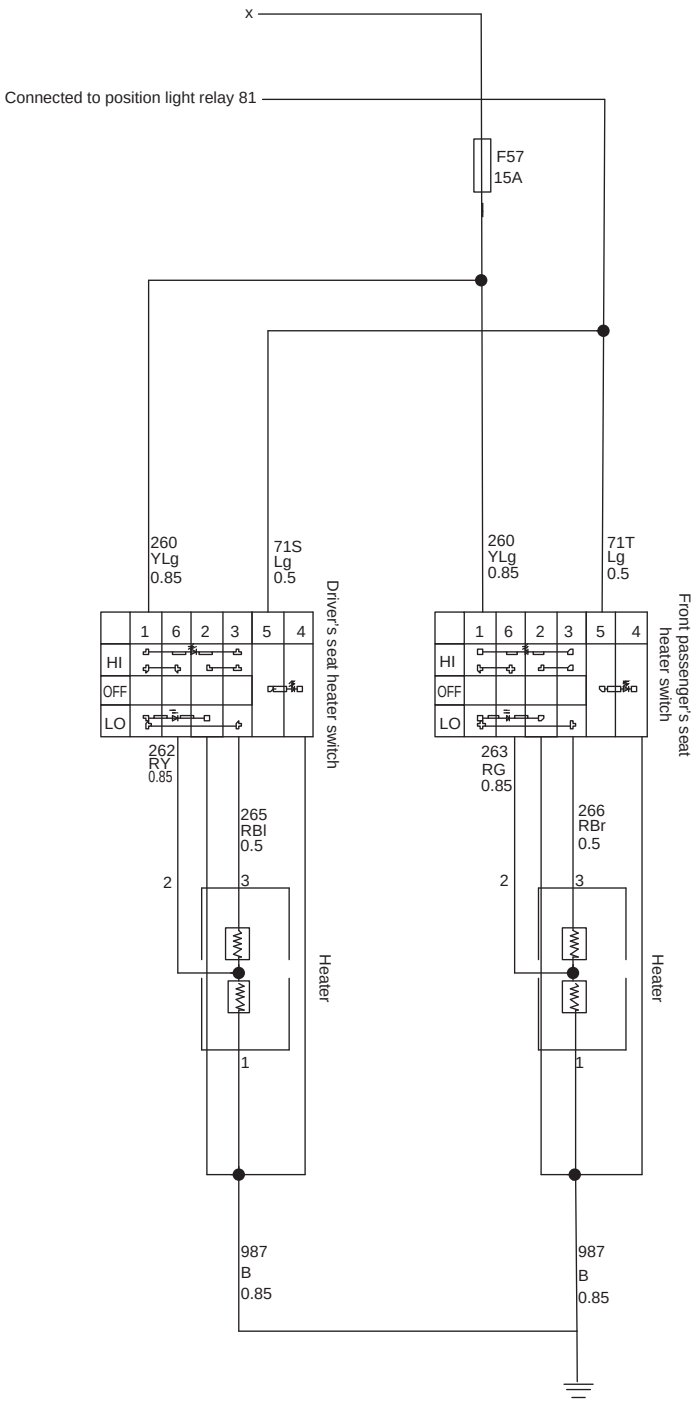


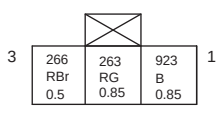


Interior System

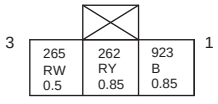


Seat Heater

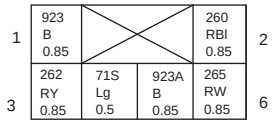




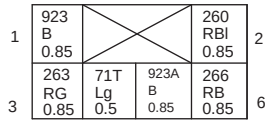
Connected to front passenger's seat heater



Connected to driver's seat heater

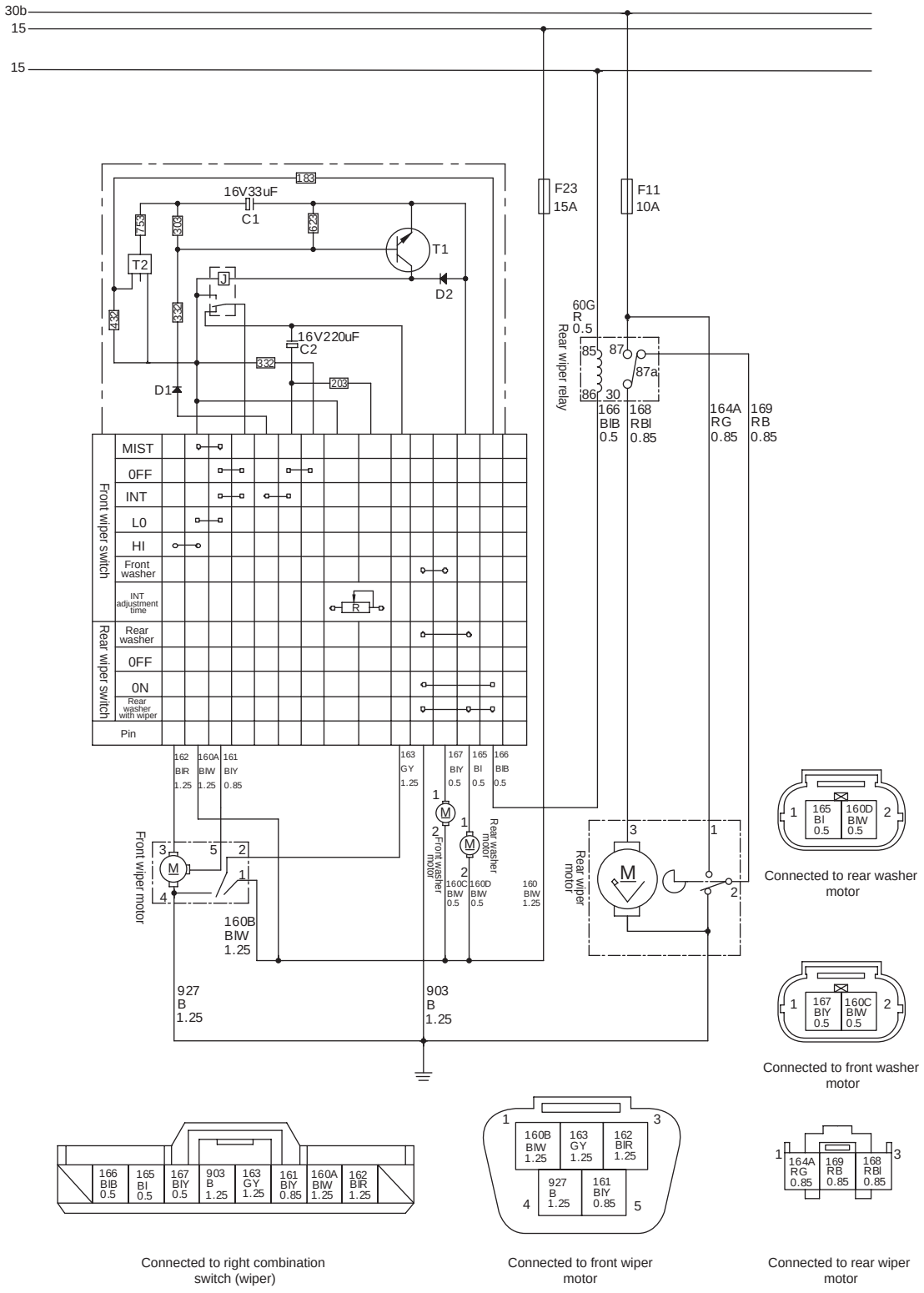


Connected to driver seat heater switch

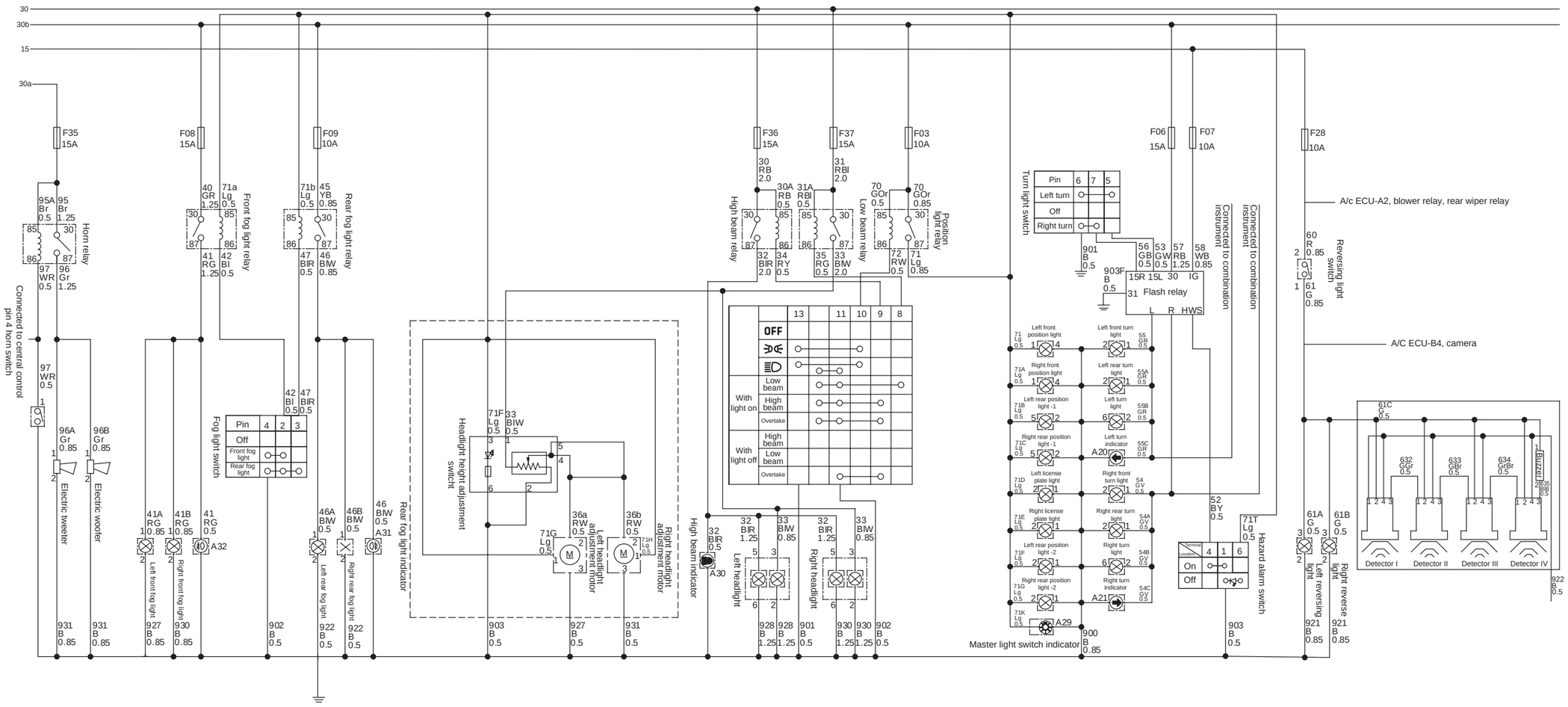


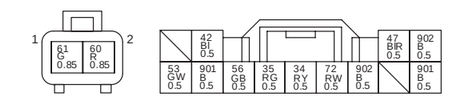
Connected to front passenger's seat heater switch

Wiper Washer Motor

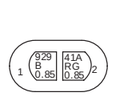


Light, Reversing Radar, Signal Alarm System

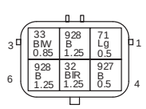


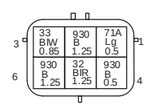

Connected to reverse switch

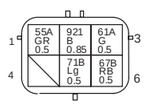
Connected to left combination switch (lighting)

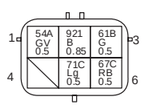

Connected to left front fog light


Connected to right front fog light

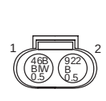

Connected to left front combination light

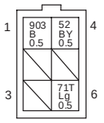

Connected to right front combination light

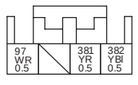

Connected to left rear combination light

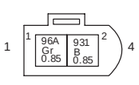

Connected to right rear combination light

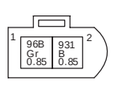

Connected to left rear fog light

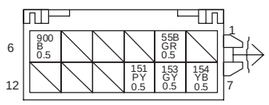

Connected to right rear fog light

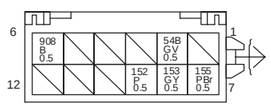

Connected to hazard alarm light switch

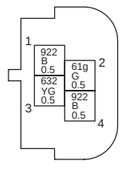

Connected to master airbag, horn switch

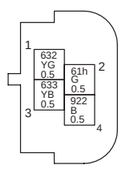

Connected to high-pitched horn

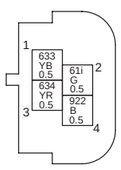

Connected to low-pitched horn

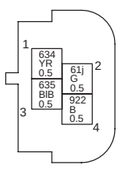

Connected to left exterior electric rear-view mirror


Connected to right exterior electric rear-view mirror

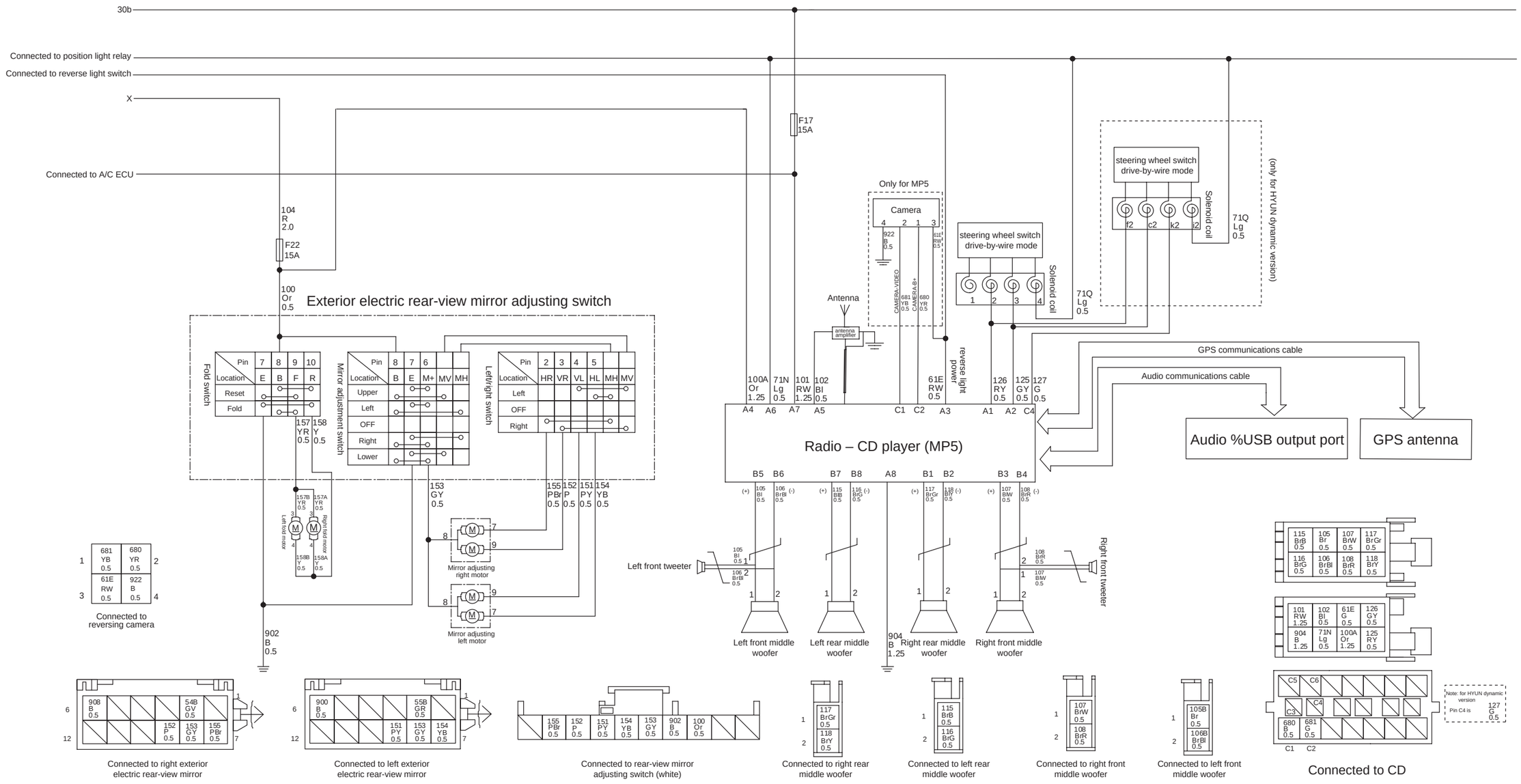

Connected to radar probe 1


Connected to radar probe 2

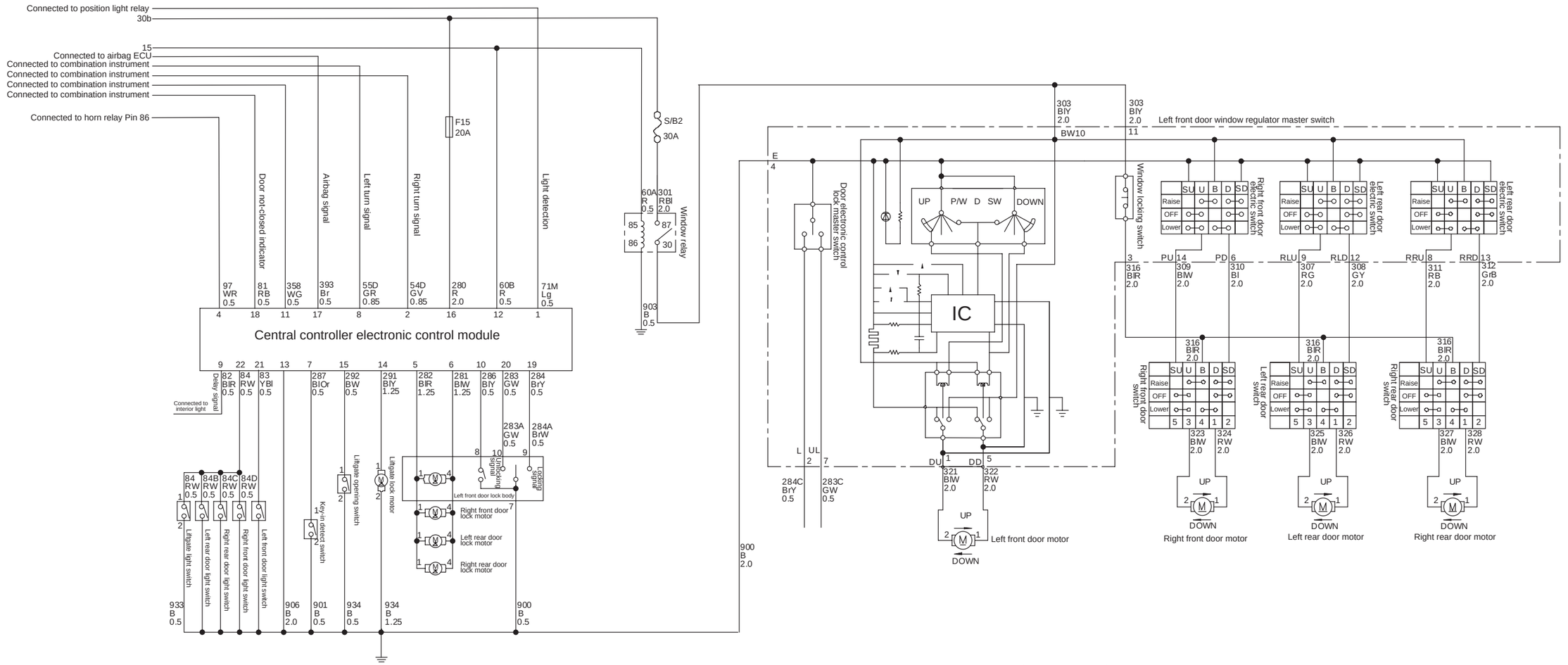

Connected to radar probe 3

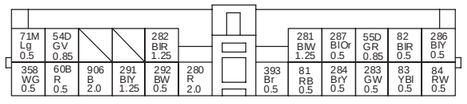

Connected to radar probe 4

Electric Rear-View Mirror, CD System



Central Lock, Window Regulator System





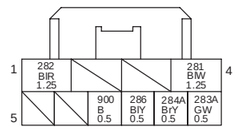
Connected to center door lock controller (white)

Connected to left front door window regulator motor

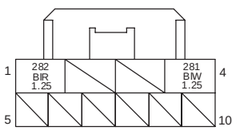
Connected to right front door window regulator motor

Connected to left rear door window regulator motor

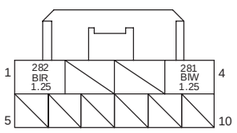
Connected to right rear door window regulator motor



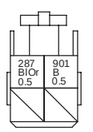
Connected to left front door lock motor



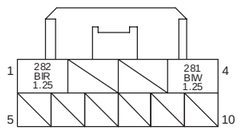
Connected to right front door lock motor



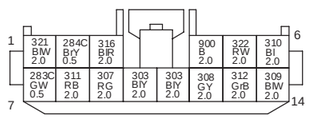
Connected to left rear door lock motor



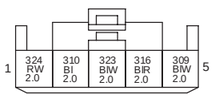
Connected to key-in detect switch



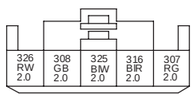
Connected to right rear door lock motor



Connected to left front door window regulator master switch

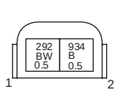


Connected to right front door window regulator switch

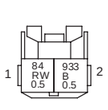


Connected to left rear door window regulator switch

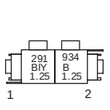
Connected to right rear door window regulator switch



Connected to liftgate opening switch

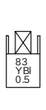


Connected to liftgate light switch



Connected to liftgate lock motor

Connected to left rear door light switch

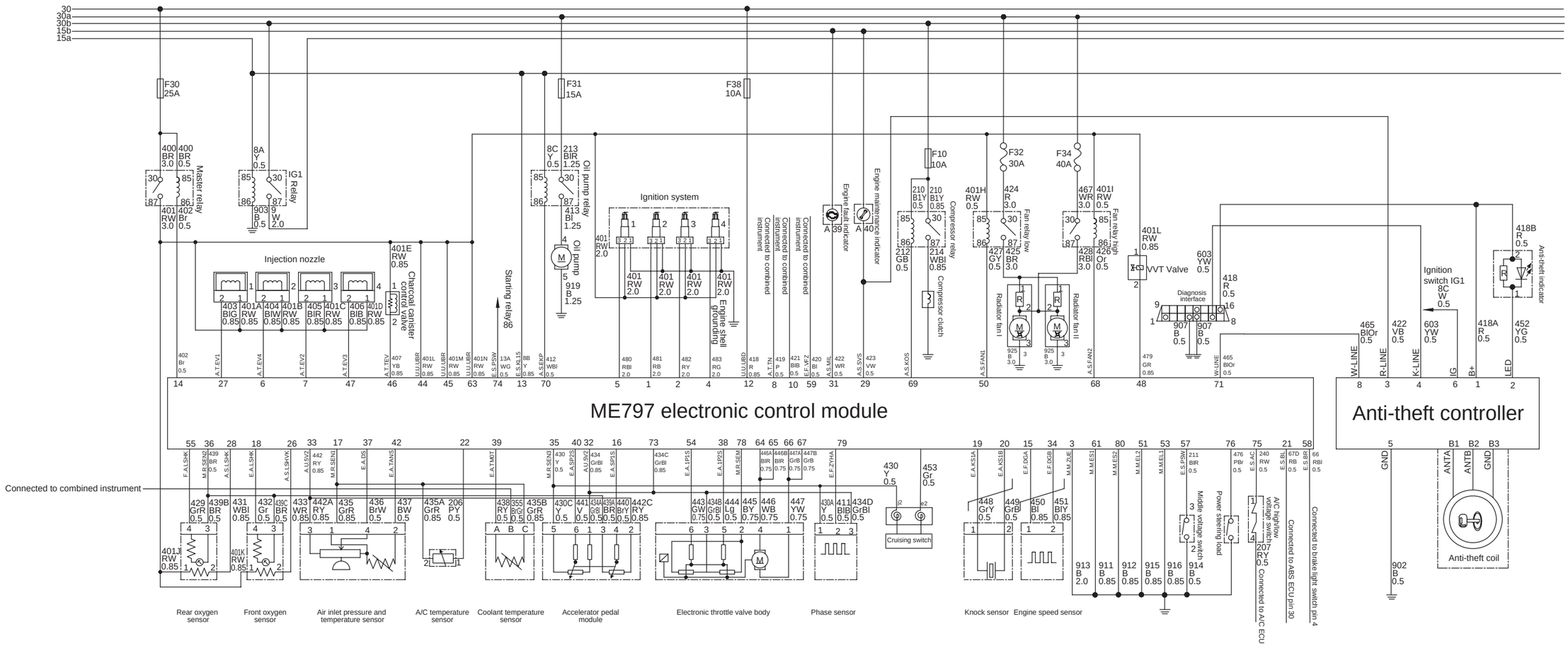


Connected to left front door light switch

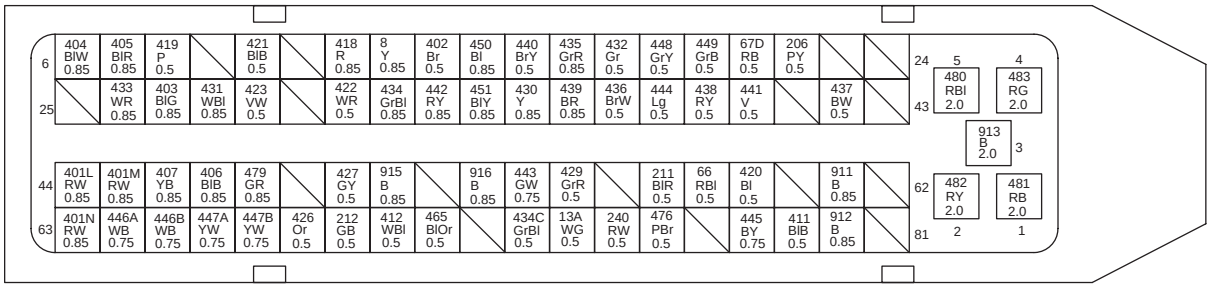
Connected to right rear door light switch

Connected to right front door light switch

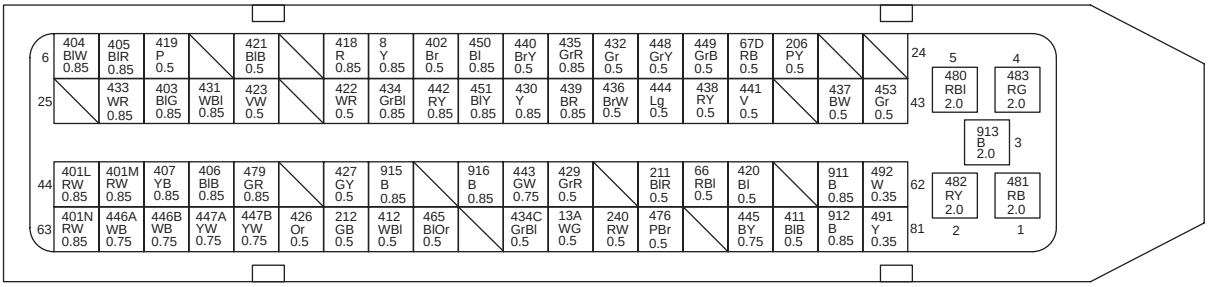
Engine EFI System



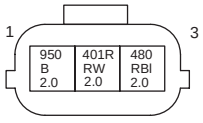
EFI System Connectors



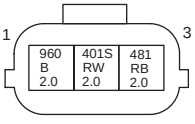
Connected to engine ECU



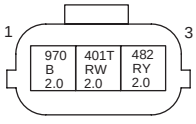
Connected to engine ECU (HYUN dynamic version)



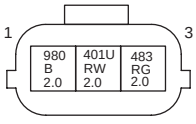
FZ20 Connected to 1-cylinder ignition coil



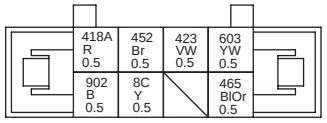
FZ29 Connected to 2-cylinder ignition coil



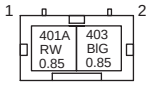
FZ31 Connected to 3-cylinder ignition coil



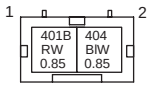
FZ32 Connected to cylinder #4 ignition coil



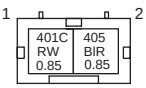
Connected to anti-theft ECU



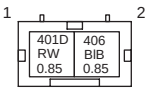
Connected to nozzle #1 (cylinder I)



Connected to nozzle #4 (cylinder II)

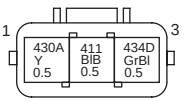


Connected to nozzle #2 (cylinder III)

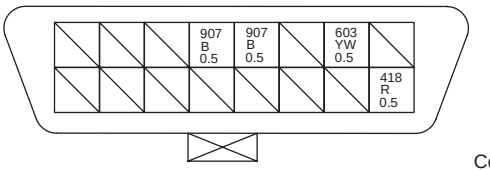


Connected to nozzle #3 (cylinder IV)

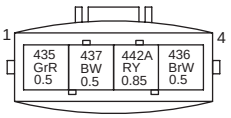
FZ25 Connected to VVT valve



FZ11 Connected to phase sensor

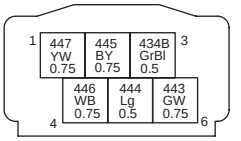


Connected to diagnosis interface

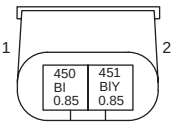


Connected to air inlet temperature pressure sensor

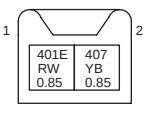
Connected to knock sensor



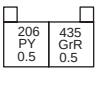
Connected to electronic Throttle Valve



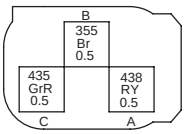
Connected to engine speed sensor



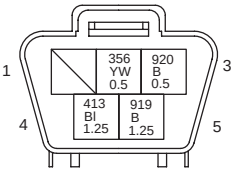
Connected to charcoal canister control valve



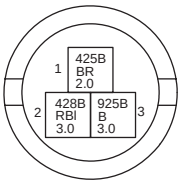
Connected to A/C temperature sensor



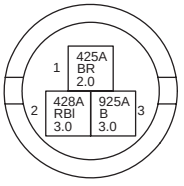
Connected to coolant temperature sensor



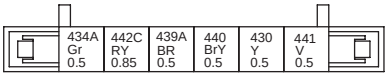
Connected to oil pump, fuel sensor



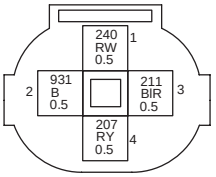
Connected to radiator fan motor 2



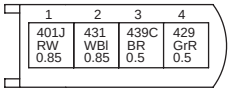
Connected to alarm fan motor 1



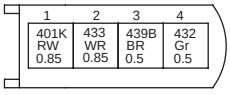
Connected to accelerator pedal



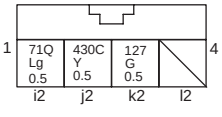
Connected to A/C pressure switch



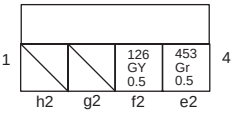
Connected to rear oxygen sensor



Connected to front oxygen sensor



Connected to clock spring (HYUN dynamic version)



Connected to clock spring (HYUN dynamic version)

Sunroof System