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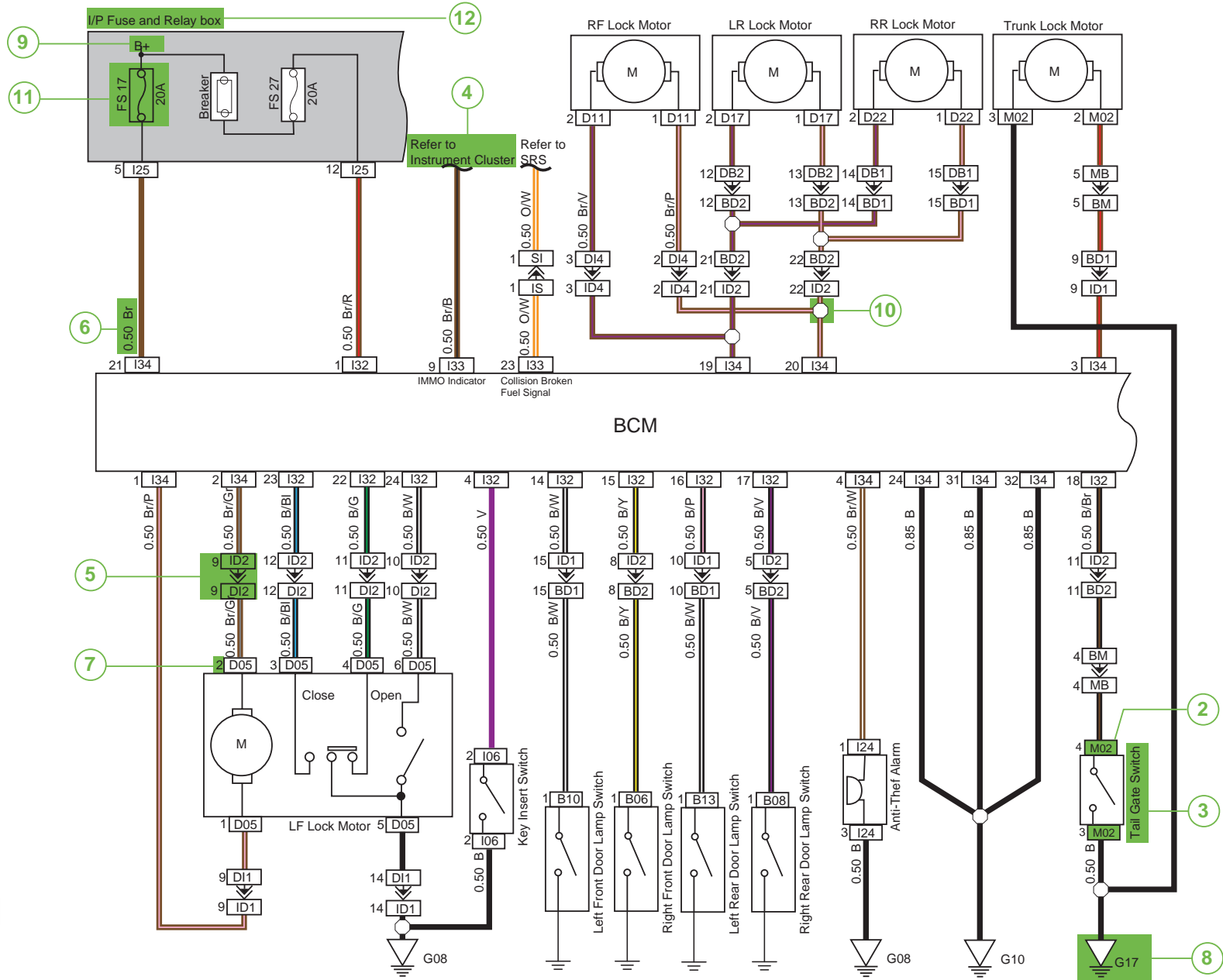
# Content



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# Introduction

## Central Lock and Theft Deterrent System



# Introduction

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   |
| F    | Left Body harness                    |
| F--  | Left Body harness connector          |
| C    | Right Body harness                   |
| C--  | Right Body harness connector         |
| H    | Rear Body harness                    |
| H--  | Rear Body harness connector          |
| D    | Door harness                         |
| D--  | Door harness connector               |
| M    | Rear bumper harness                  |
| M--  | Rear bumper harness connector        |
| A    | A/C harness                          |
| A--  | A/C harness connector                |
| S    | Airbag harness                       |
| S--  | Airbag harness connector             |
| R    | Roof harness                         |
| R--  | Roof harness connector               |

**Note:**

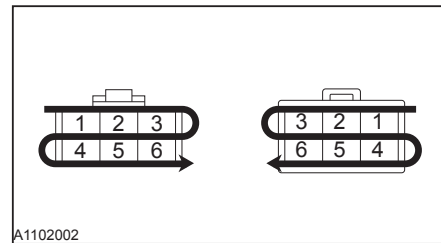
1. Door harness includes four door harness.
2. For harness connector details, please refer to connector location views.
3. Component name.
4. System information.
5. Harness to harness connector. The character in the box is the connector code.
6. Wire color and diameter. The following table shows the 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 Width color and the second shows the stripe color, divided by "/".

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

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

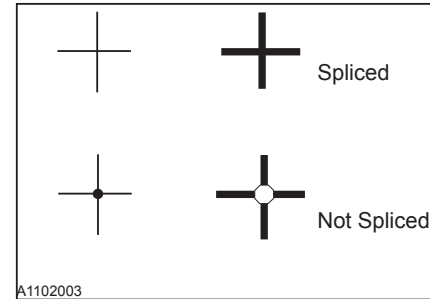


8. Ground number. The ground number starts with G. For ground details, please refer to ground location views.

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.

**Note:** The difference between IG1 and IG2 is that there is power supply output from IG1, but not from IG2 when the ignition switch is at "ST" position.

10. Splice



11. Fuse number consists of fuse code and a sequential number.

12. Grey shade means fuse and relay box.

# Symbol

|  |                    |  |                     |  |                      |          |                    |  |                     |  |                             |
|--|--------------------|--|---------------------|--|----------------------|----------|--------------------|--|---------------------|--|-----------------------------|
|  | Ground             |  | Relay-Normally OFFd |  | Battery              |          | Ground             |  | Relay-Normally OFFd |  | UTP Unshielded Twisted Pair |
|  | Temperature Sensor |  | Relay-Normally ON   |  | Capacitor            |          | Temperature Sensor |  | Relay-Normally ON   |  | Stator                      |
|  | Solenoid           |  | Double Throw Relay  |  | Cigarette Lamper     |          | Solenoid           |  | Horn                |  | Fan Assembly                |
|  | Solenoid           |  | Resistor            |  | Antenna              |          | Solenoid           |  | Clock Spring        |  | Oxygen Sensor               |
|  | Lamp Load Fuse     |  | Potentiometer       |  | Switch-Normally ON   |          | Lamp Load Fuse     |  | Airbag              |  | Low Speed Fan Relay B       |
|  | Moderate Load Fuse |  | Rheostat            |  | Switch-Normally OFFd |          | Not Sliced         |  | Sliced              |  |                             |
|  | Heavy Load Fuse    |  | Ignition Coil       |  | Double Throw Switch  | A1104002 |                    |  |                     |  |                             |
|  | Heater             |  | Knock Sensor        |  | Ignition Switch      |          |                    |  |                     |  |                             |

# Circuit Diagnosis

## Circuit Diagnostic Procedure

Refer to the following procedure for the circuit diagnosis:

### 1. Confirm the Fault

To do the proper repair, confirm the fault described 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 diagnostic procedures in the workshop manual and start the inspection from the most likely causes and the compents be easiest to inspect.

### 4. Repair

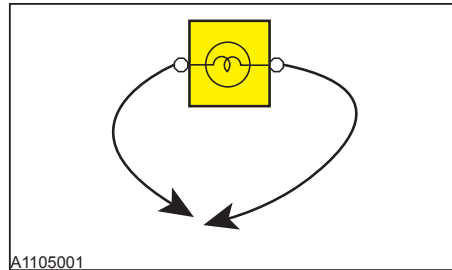
Repair the faulty circuit. Refer to the wiring diagram and workshop manual for fault treatment. For example, the treatment on bad connection to ground and the harness connector.

### 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 Lamp



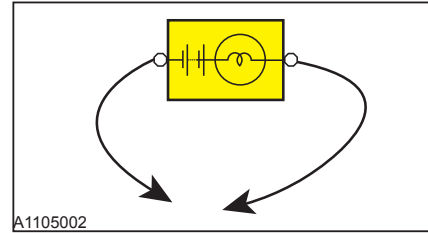
Use test lamp or voltmeter to check the circuit status.

Test lamp 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 lamp to test the control module voltage. To do so, it could damage the circuit inside the control module. Please use a voltmeter with 10M  $\Omega$  or higher internal impedance (e.g. to test the ECM voltage).

Voltmeter has the same connection method as the test lamp, 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 Lamp with Self-supply and Ohmmeter

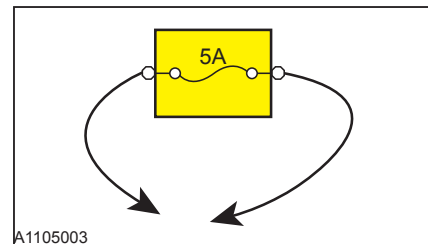


Use test lamp with own 12V power supply or ohmmeter to test the circuit continuity. Test lamp comprises a bulb, battery and a pair of wires. The bulb will be lit when the two wires contacted. Before test, disconnect the battery negative and pull out the fuse of the circuit to be tested. To test the circuit 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 lamp 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  $\Omega$  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

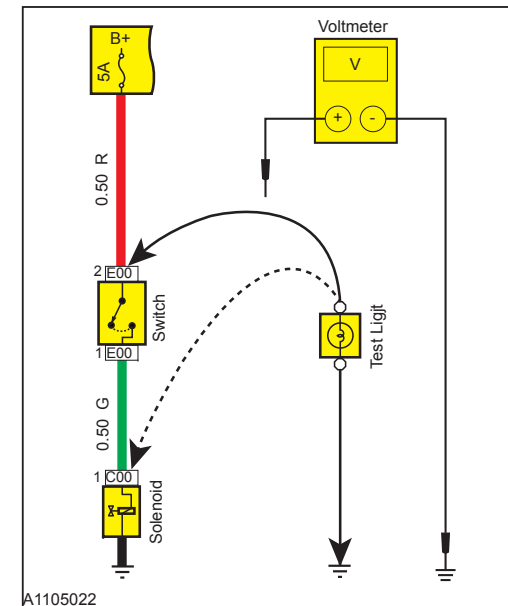


Use jumper to test a broken point for ON loop circuit (circuit broken). The jumper should be in tandem with the circuit to be tested.

**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.

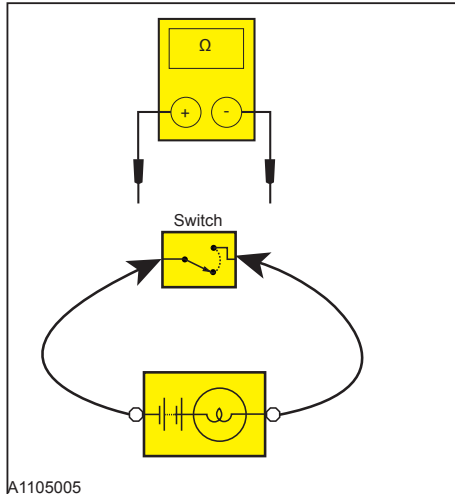
1. When testing the voltage with test lamp or voltmeter, connect the negative wire of the test lamp or the negative probe of the voltmeter to the ground.

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

# Circuit Diagnosis

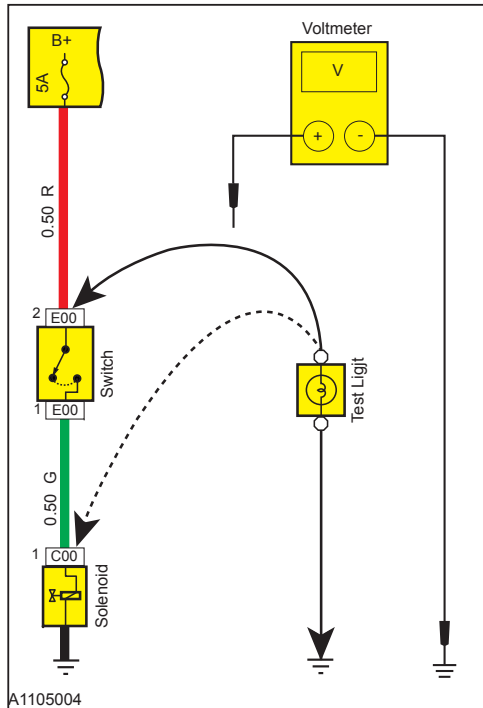
3. It means circuit fault if lamp is not lit. If using voltmeter and voltage display is lower than the rated value with more than 1V, it means the circuit fault.

## 2. Power Test



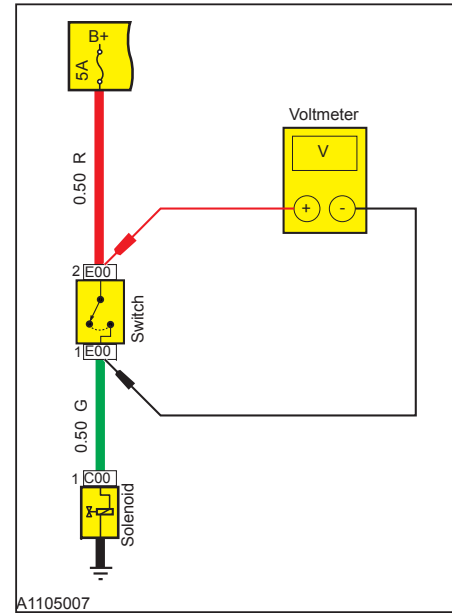
1. Disconnect the battery negative.
2. Connect one of the wire of the test lamp with self-supply or the probe of the ohmmeter to the component to be tested. If using ohmmeter, please contact the two probes each other and use reset button to adjust the ohmmeter to zero.
3. Connect the other wire of the test lamp 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 OFF to 0  $\Omega$ .

## 3. Short Circuit Test



1. Disconnect battery negative.
  2. Connect one of the wire of the test lamp with self-supply or the probe of the ohmmeter to the outlet terminal of the fuse.
  3. Connect the other wire of the test lamp 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 lamps, the ohmmeter will always display the low impedance value. This will cause wrong judgement.
5. Do the careful test from the place OFFst to the fuse.
  6. If the bulb is lit or ohmmeter has value display less than 5  $\Omega$ , it means the short circuit to the ground.

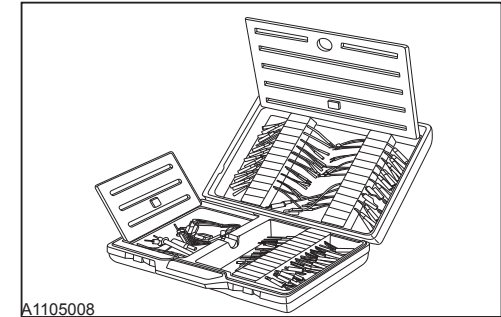
## 4. Voltage Drop Test



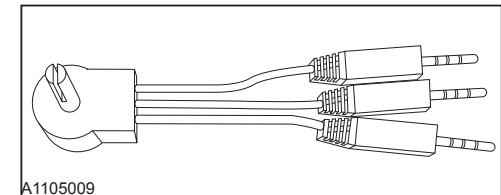
This is to test the voltage drop along the wire, connector or switch.

1. Connect the positive probe of the voltmeter to the end of the circuit OFF 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

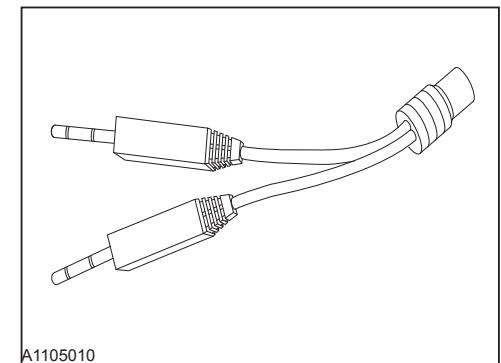


### 1. 5K $\Omega$ Rheostat



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

### 2. LED Test Lamp

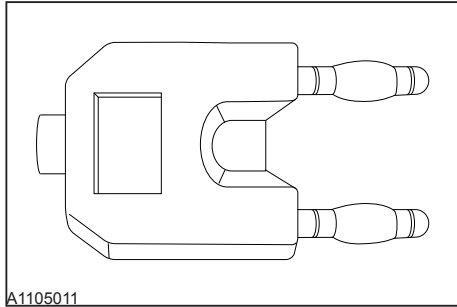




# Circuit Diagnosis

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

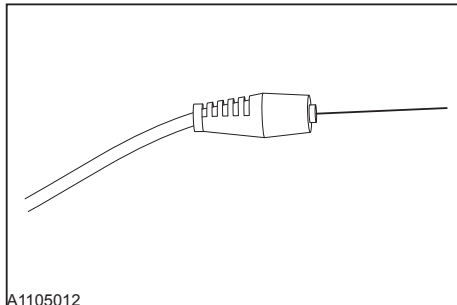
## 3. Airbag Test Tool



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



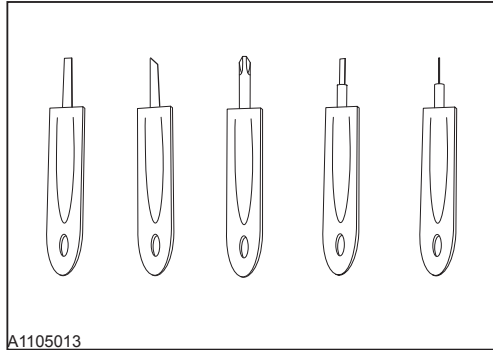
A1105012

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



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## 5. Terminal Repair Tool

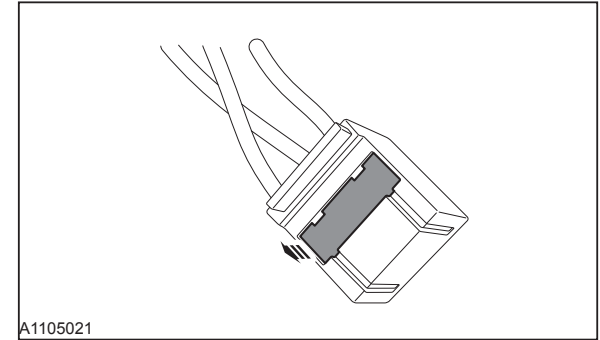


A1105013

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

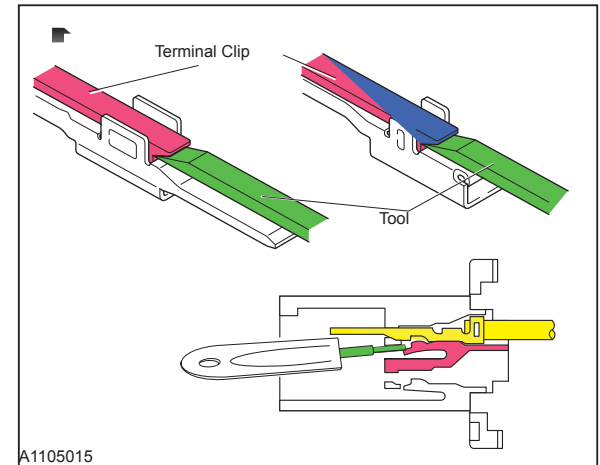
## Terminal Repair

1. Remove the terminal pin.



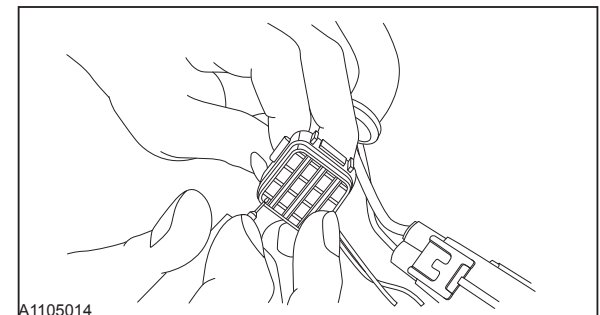
A1105021

2. Fix the clip with terminal repair tool.



A1105015

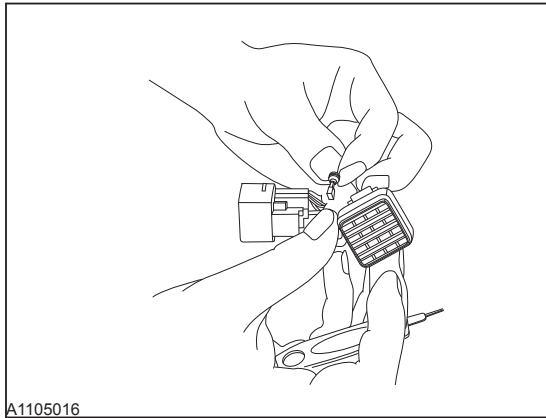
3. Pull out the terminal from the rear of connector.



A1105014

# Circuit Diagnosis

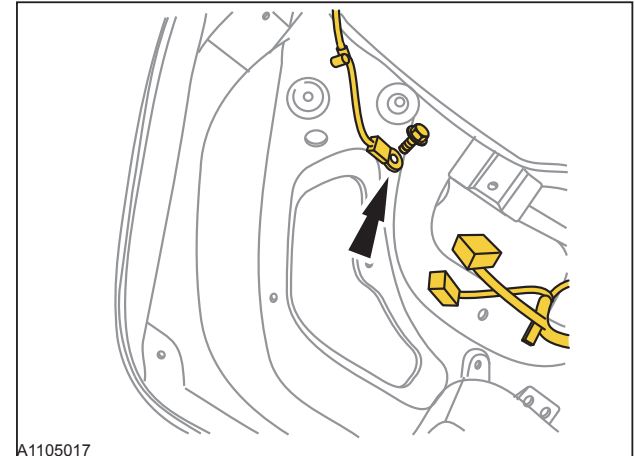
4. Clean and repair the terminals.



A1105016

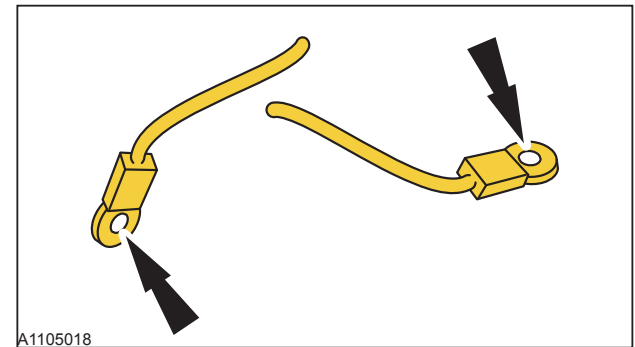
## Poor Ground Connection Repair

1. Remove the ground bolt.



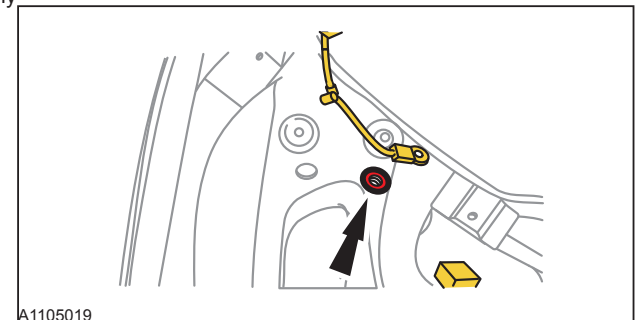
A1105017

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.

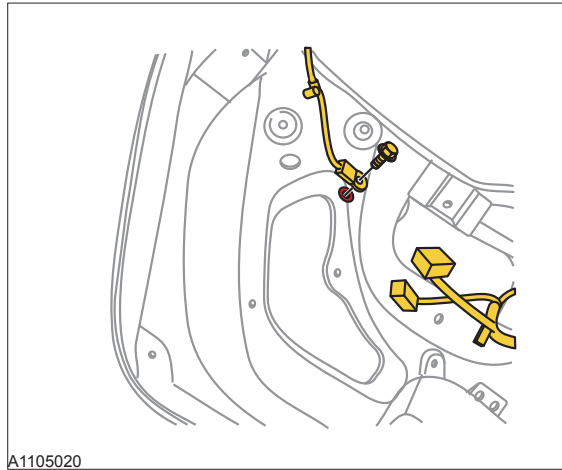


A1105019

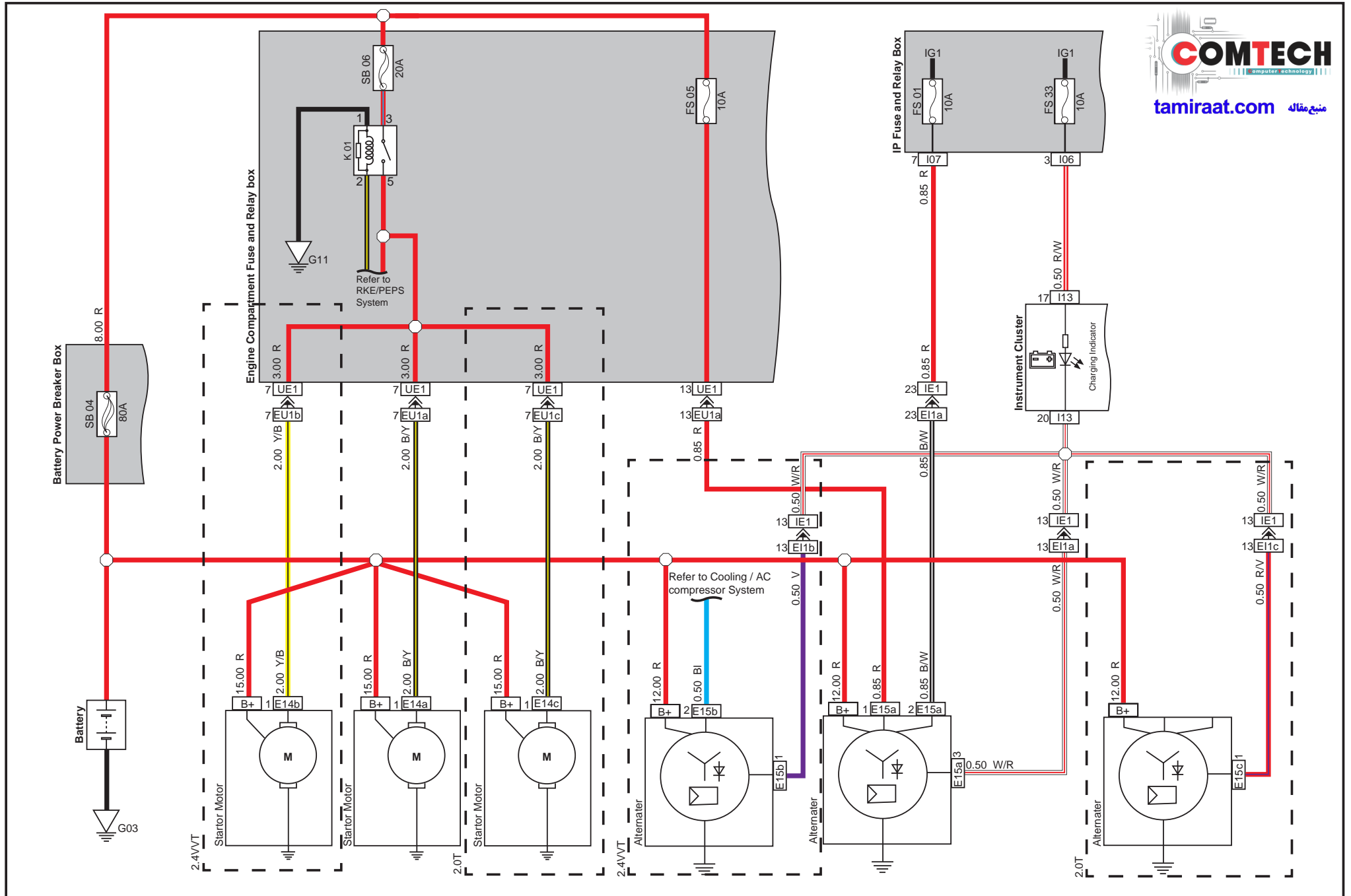
# Circuit Diagnosis

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

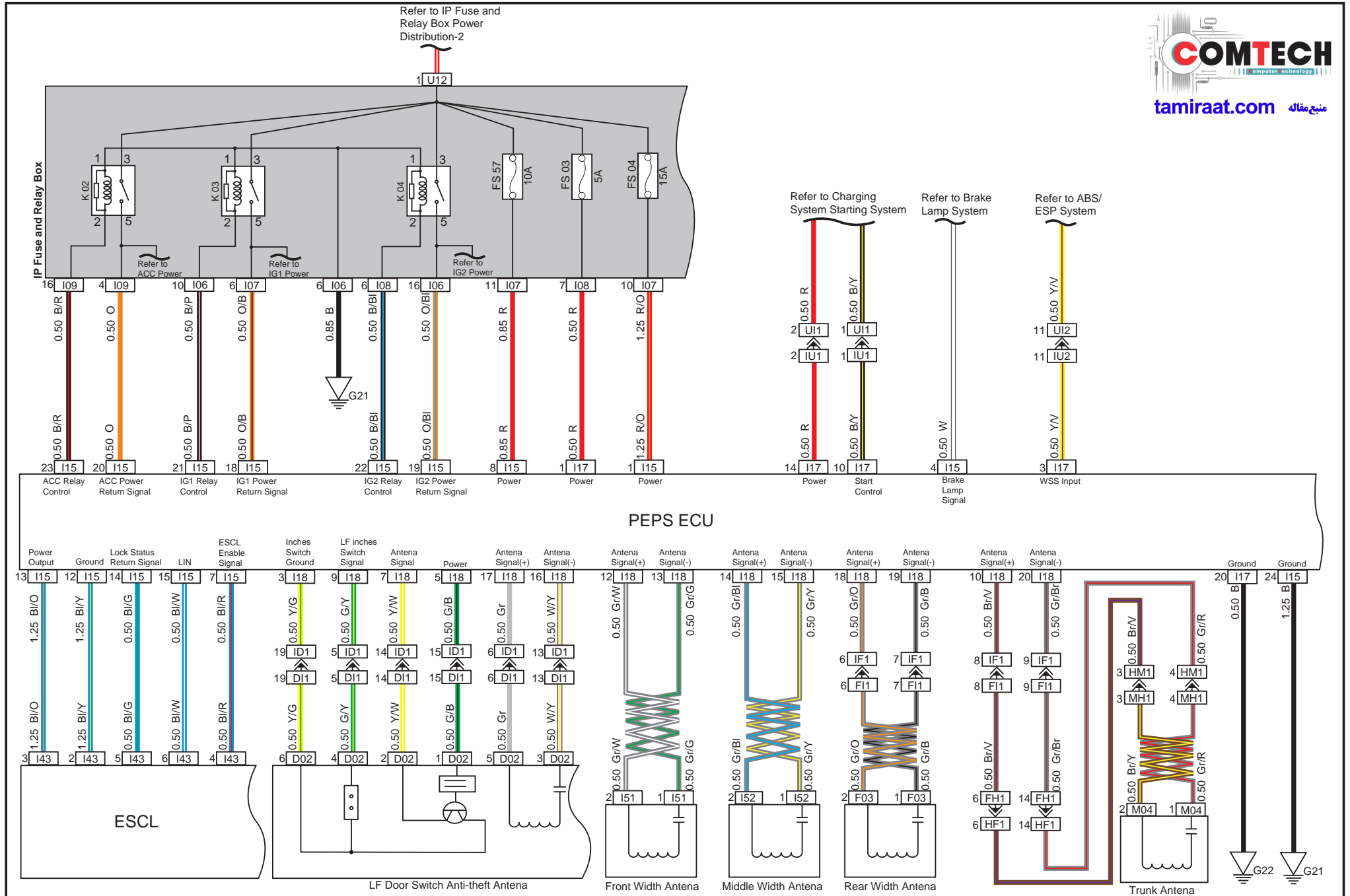
Torque: M6 Bolts 8 Nm



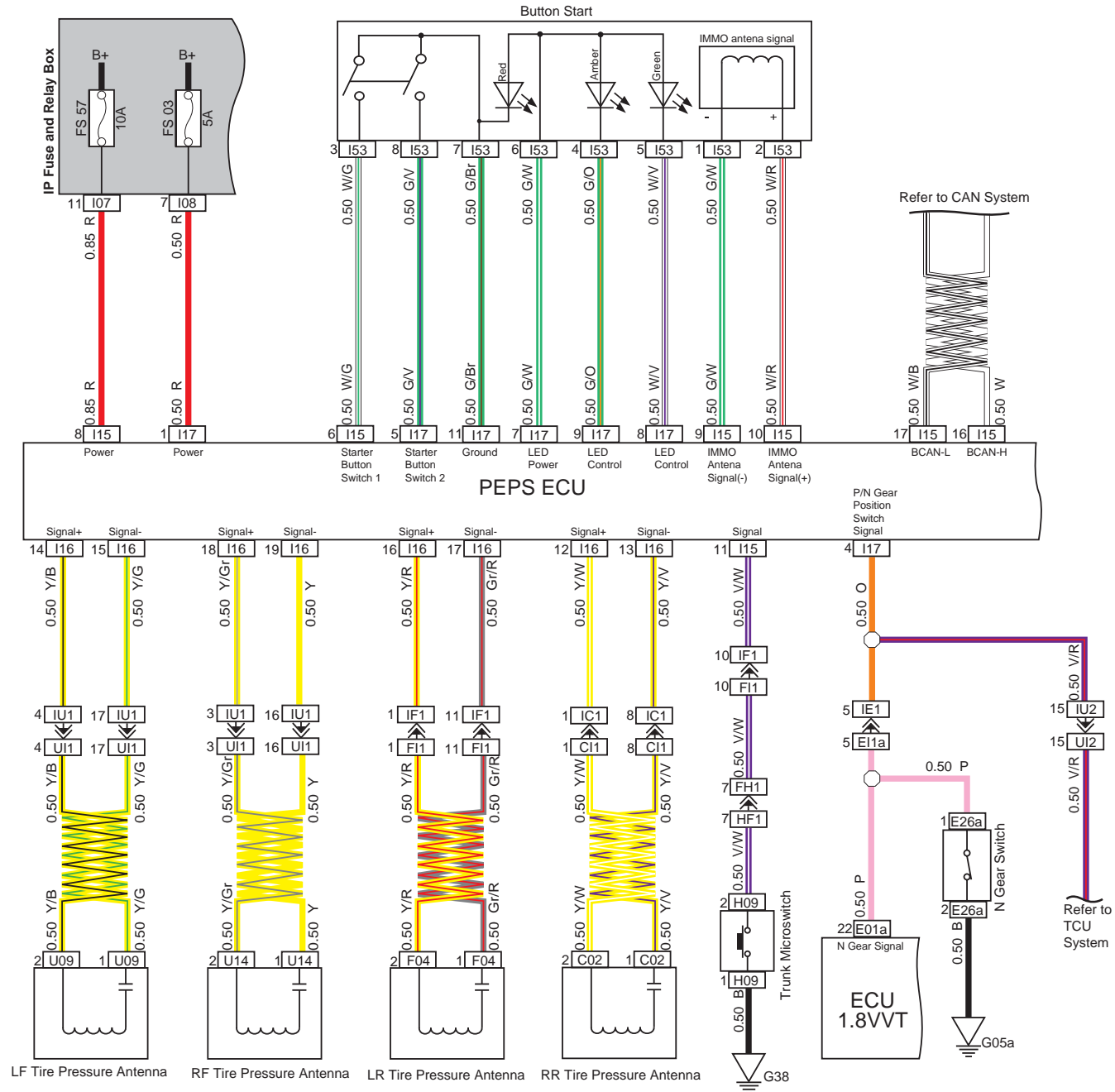
# Charging System / Starting System



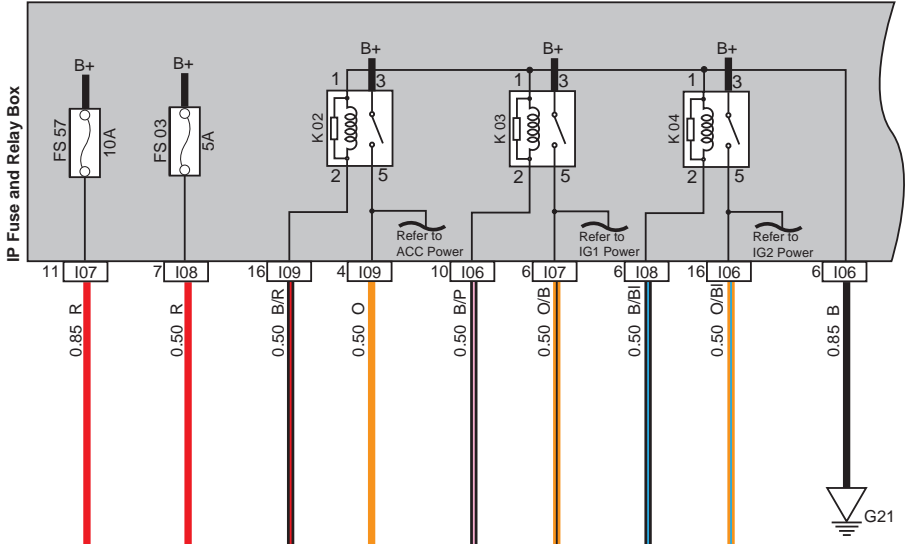
# PEPS System -1



# PEPS System -2



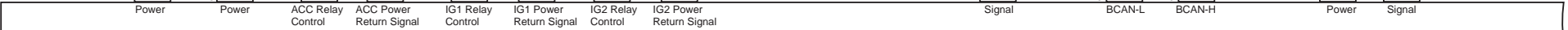
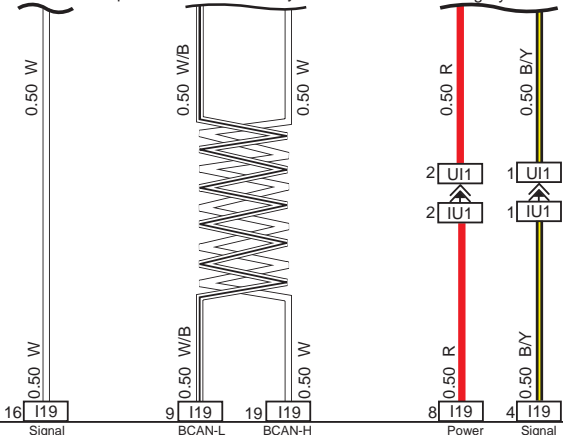
# RKE System



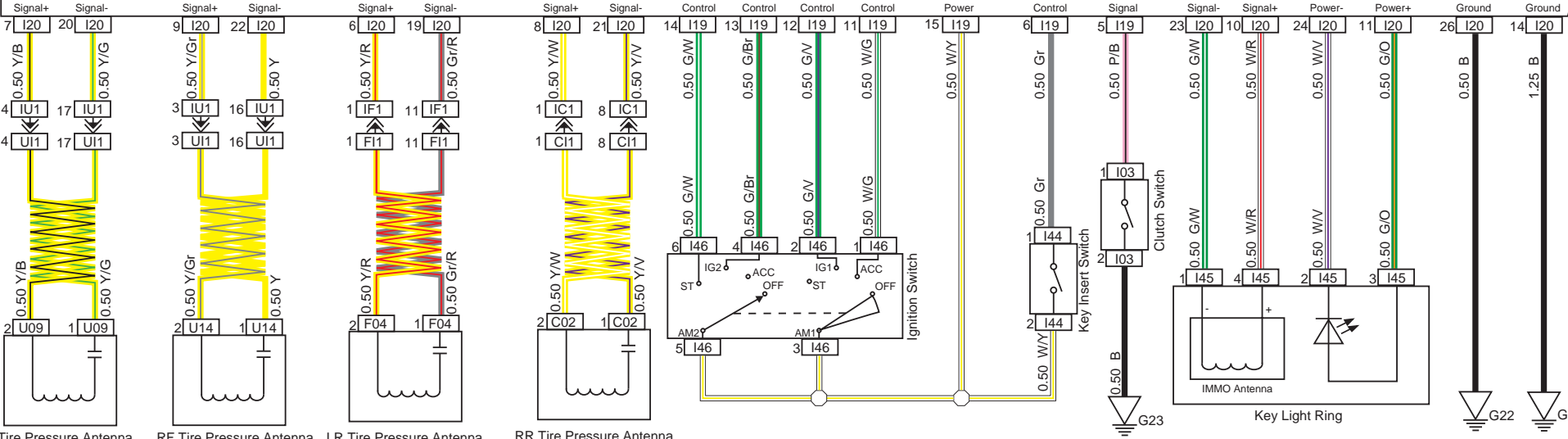
Refer to Brake Lamp

Refer to CAN System

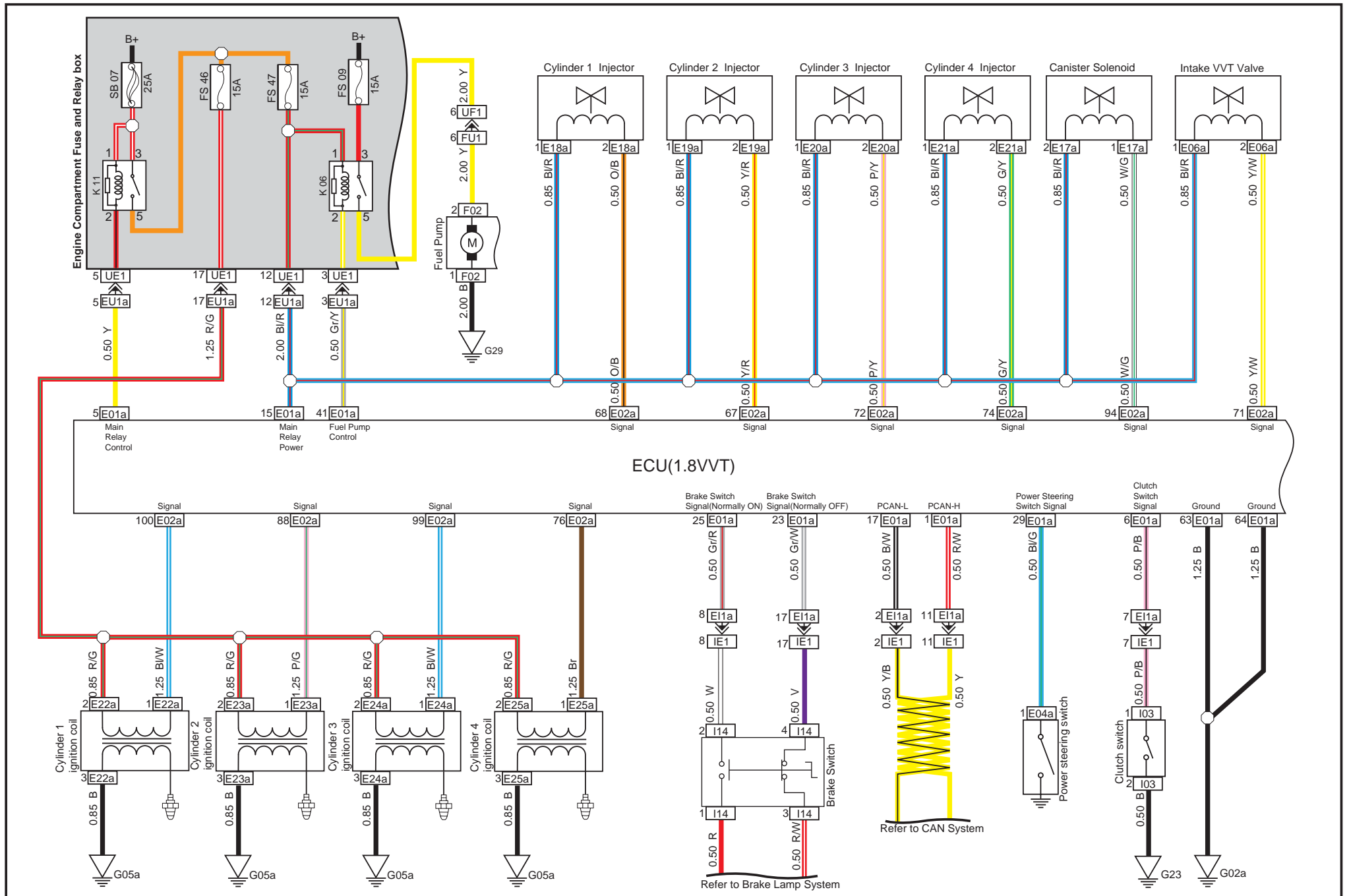
Refer to Charging System Starting System



## RKE ECU

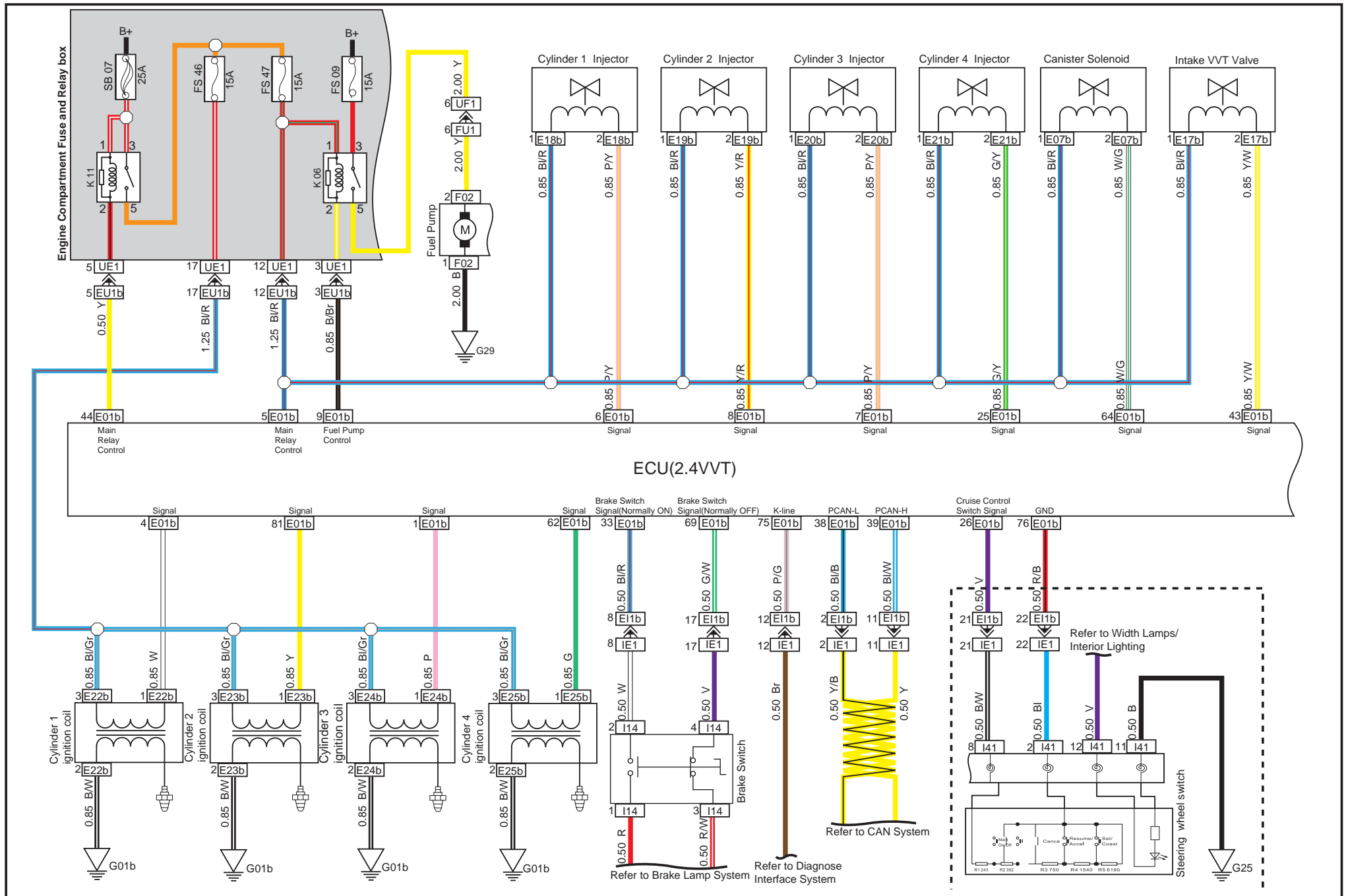


# Ignition System Fuel System(1.8VVT)

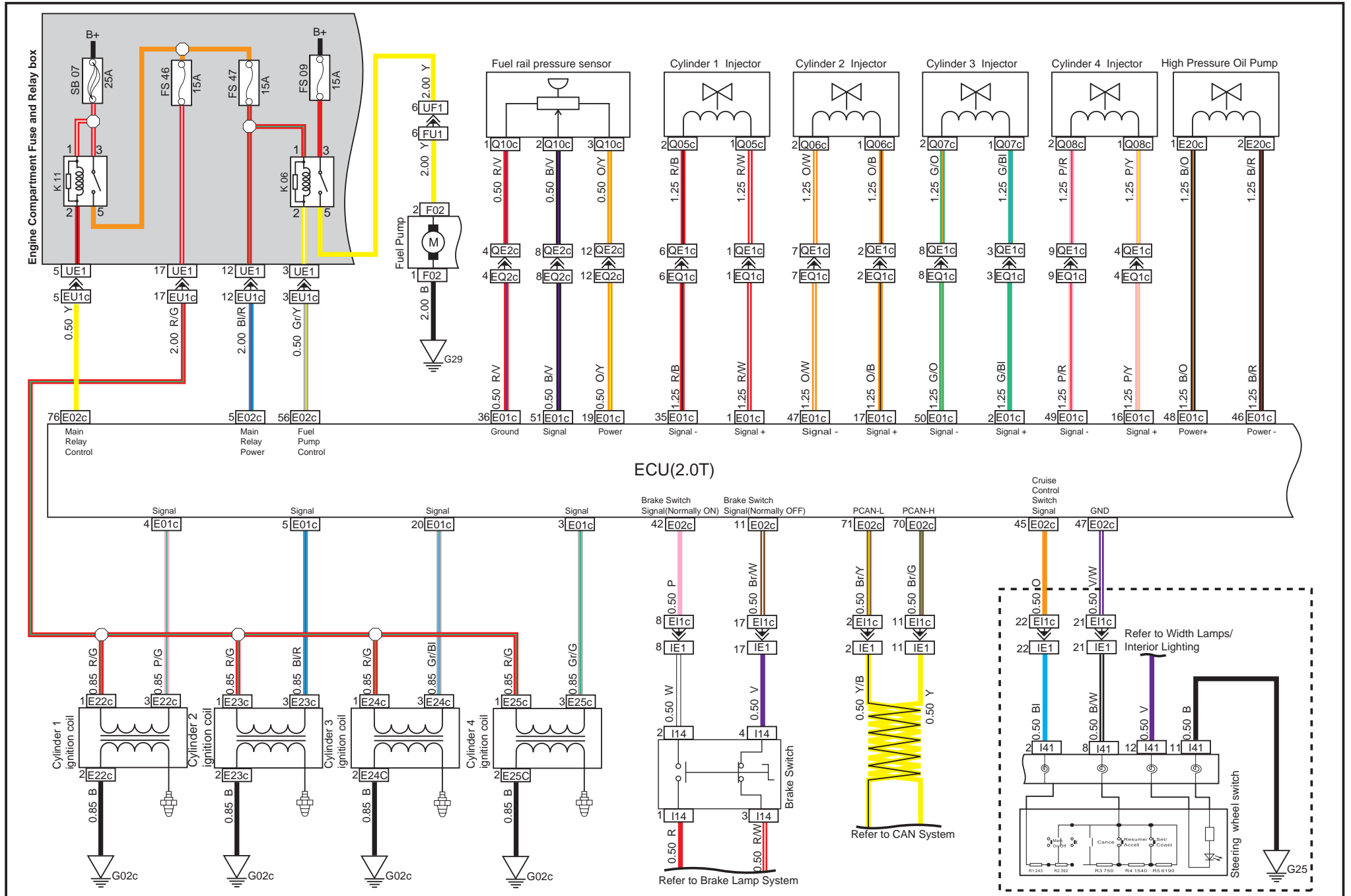




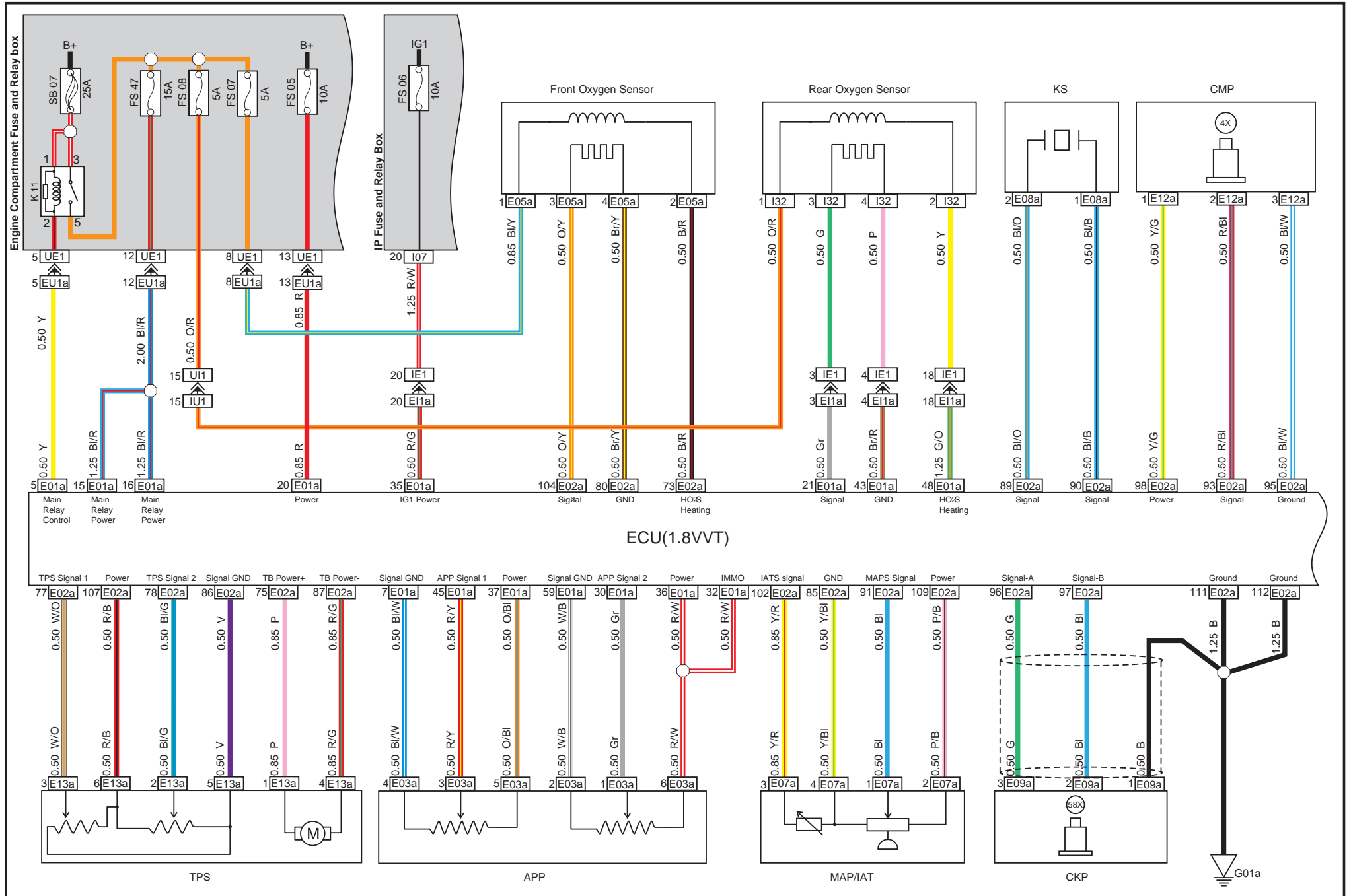
# Ignition System Fuel System(2.4VVT)



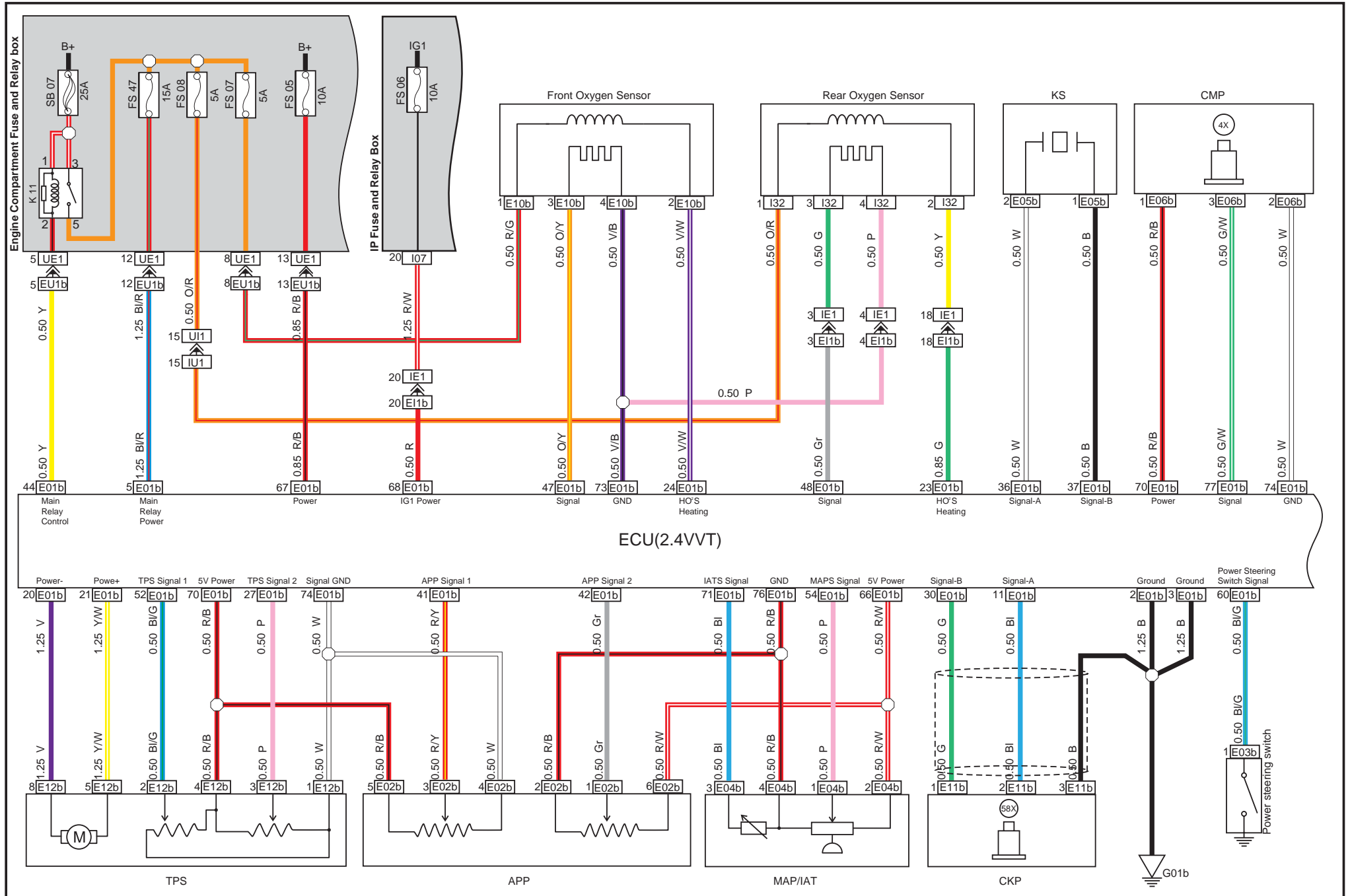
# Ignition System Fuel System(2.0T)



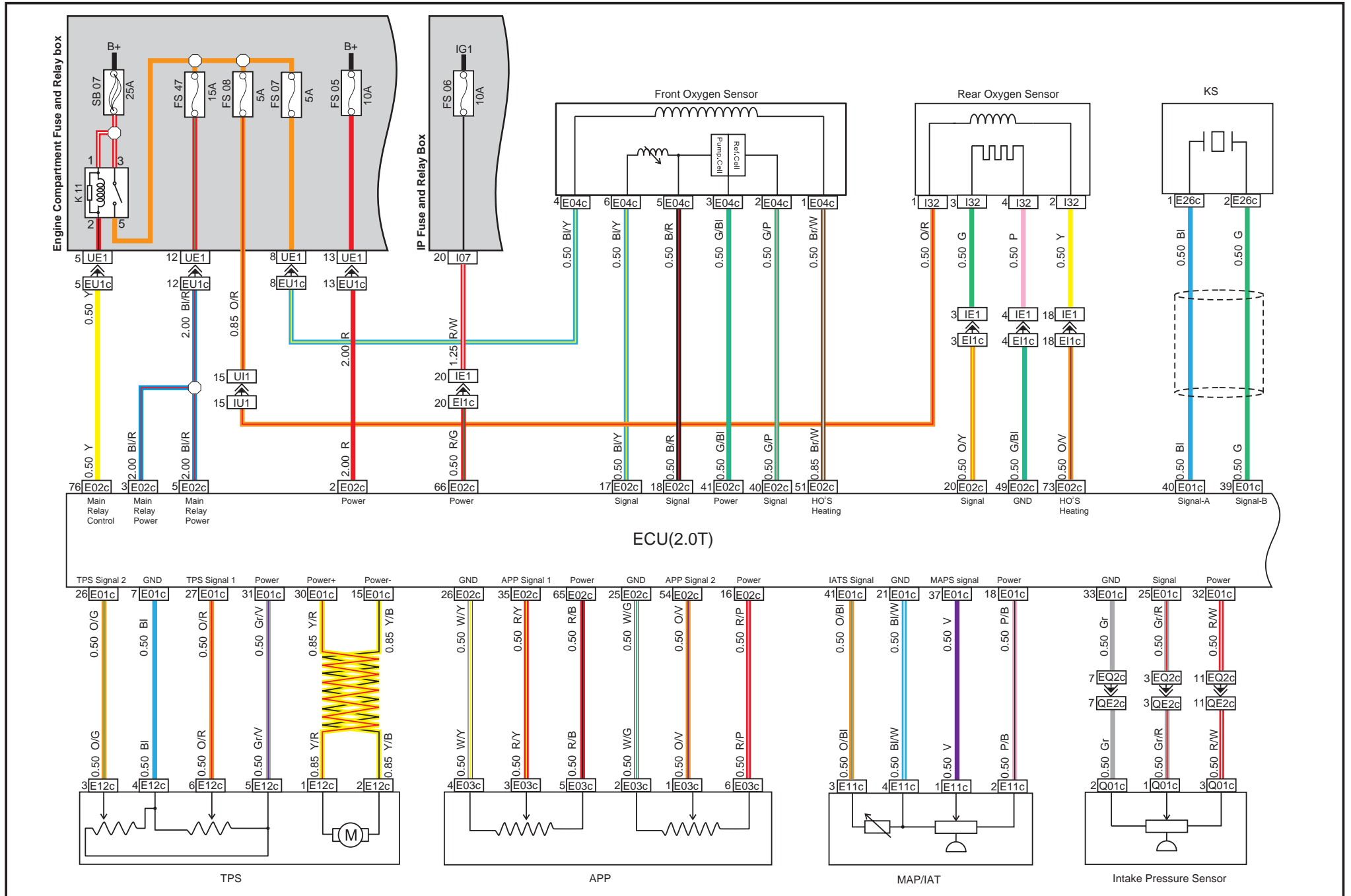
# Electronic Control System(1.8VVT)



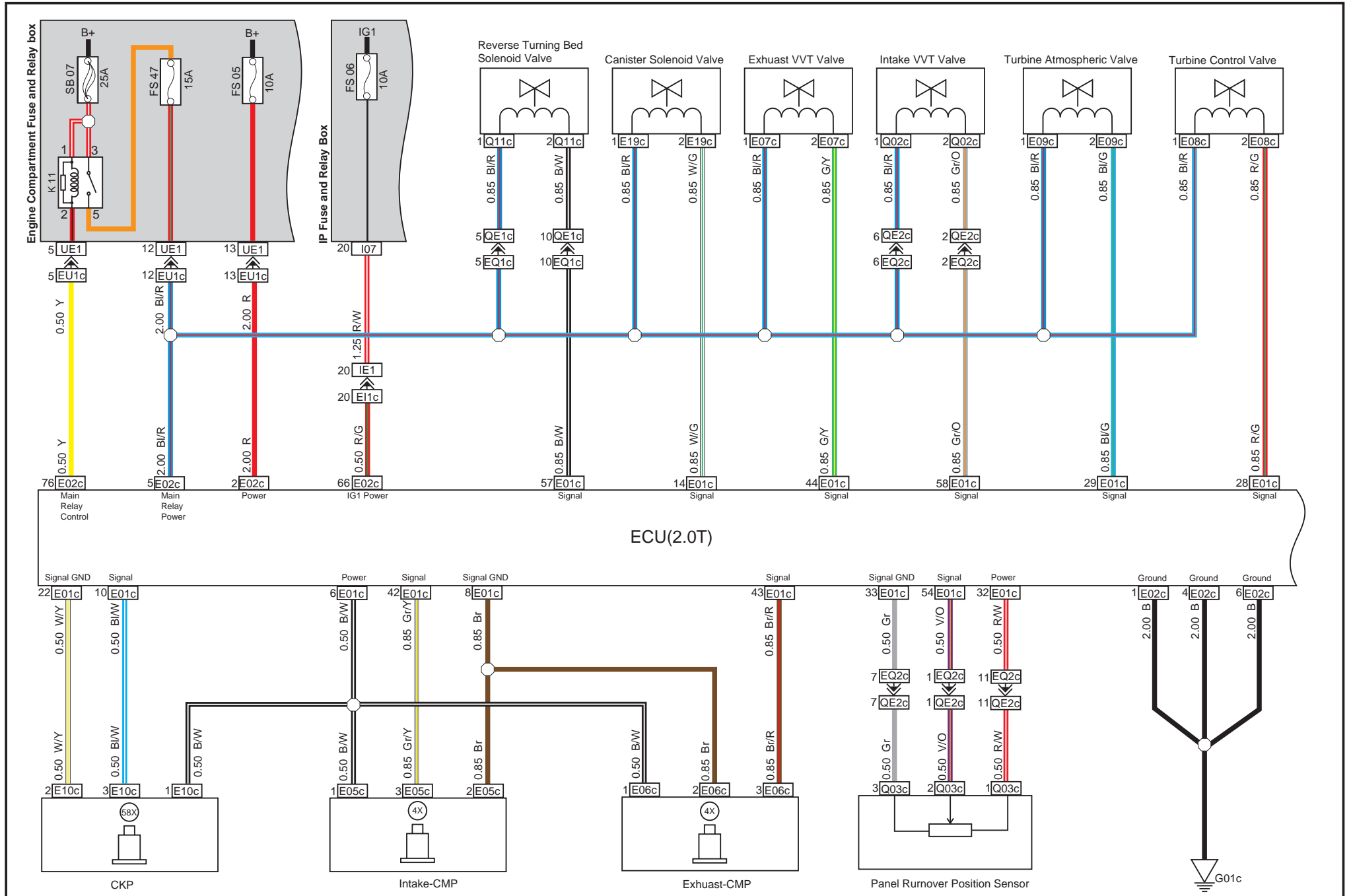
# Electronic Control System(2.4VVT)



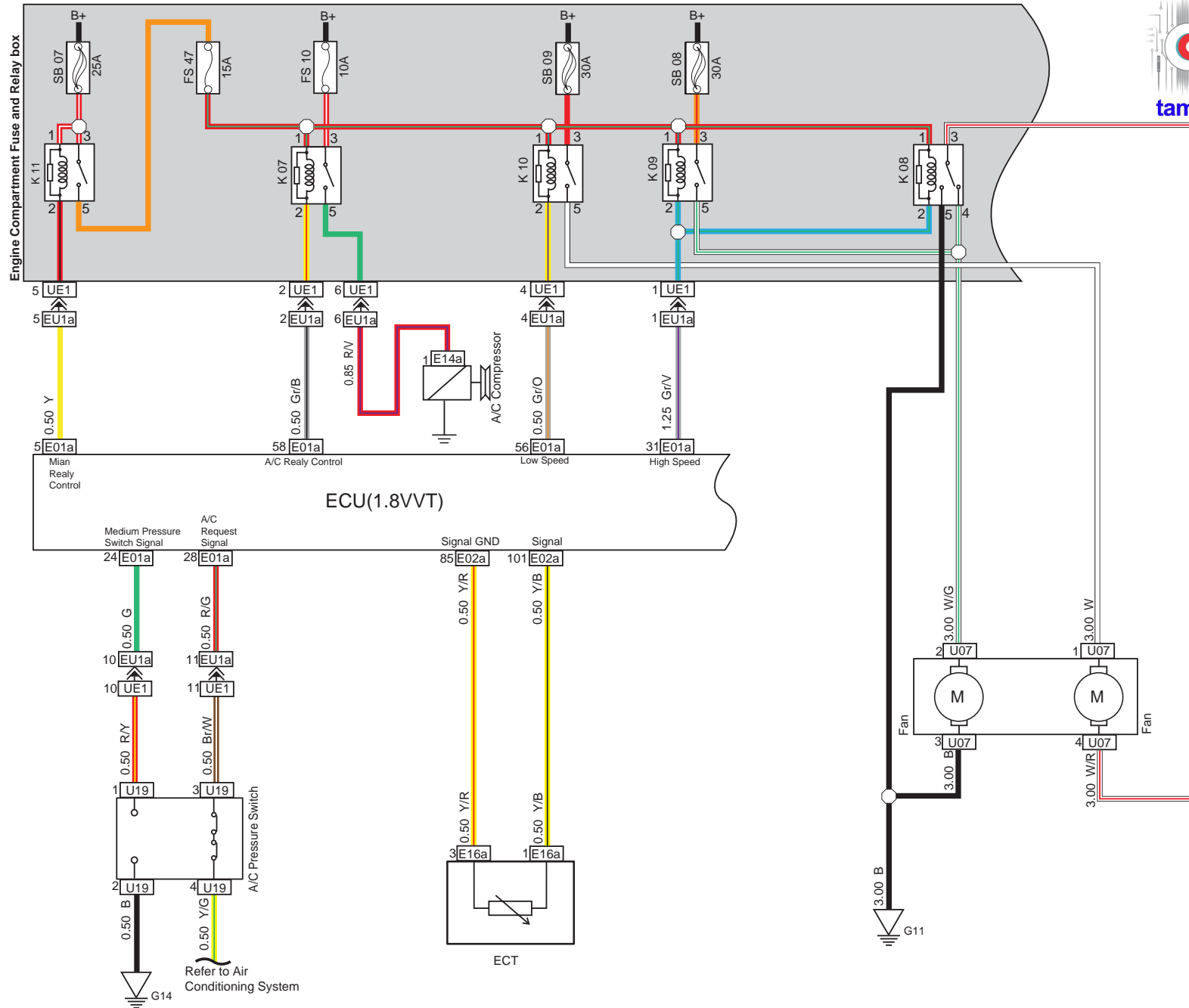
# Electronic Control System(2.0T)



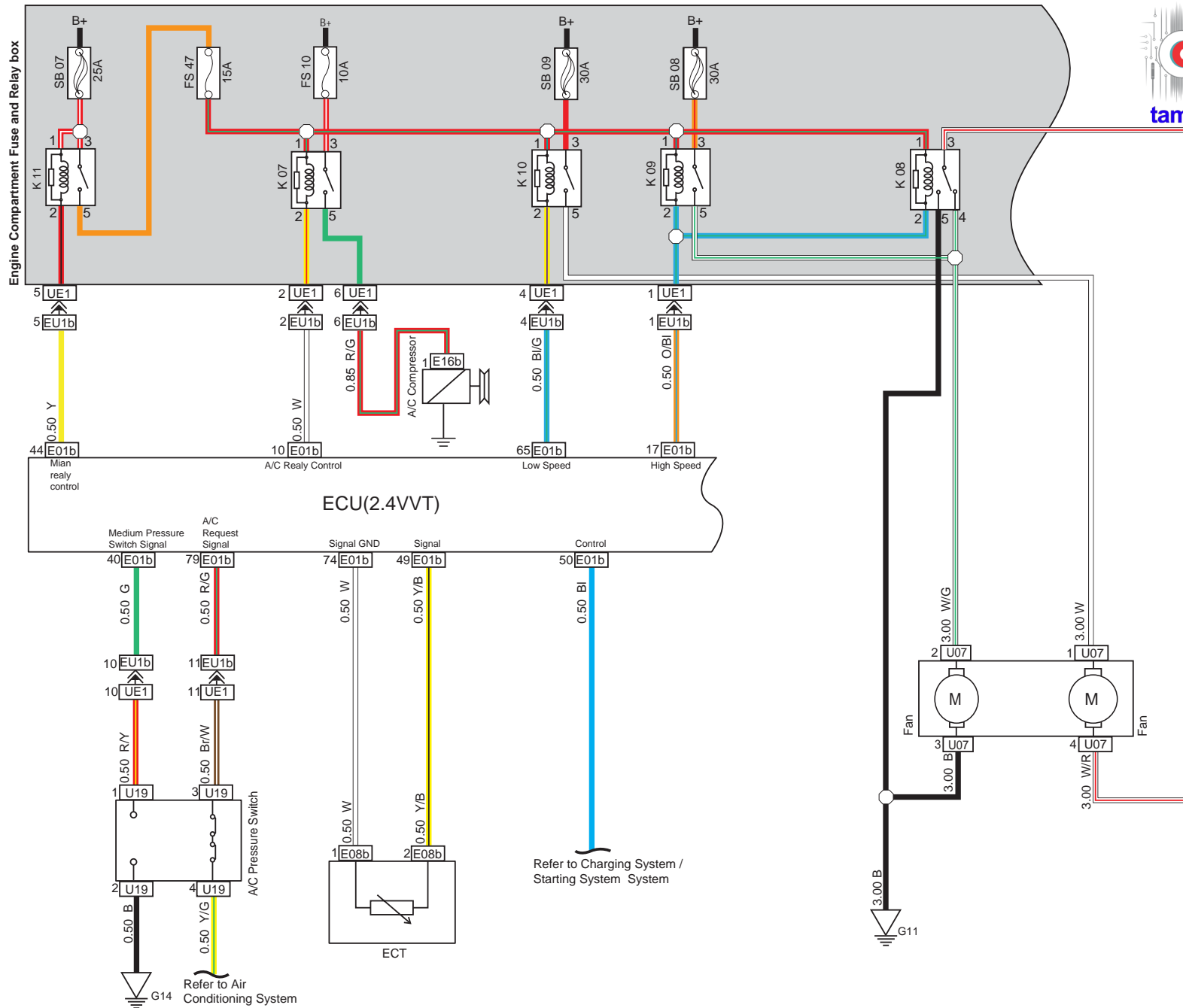
# Electronic Control System(2.0T)



# Cooling System / A/C Compressor System(1.8VV7)

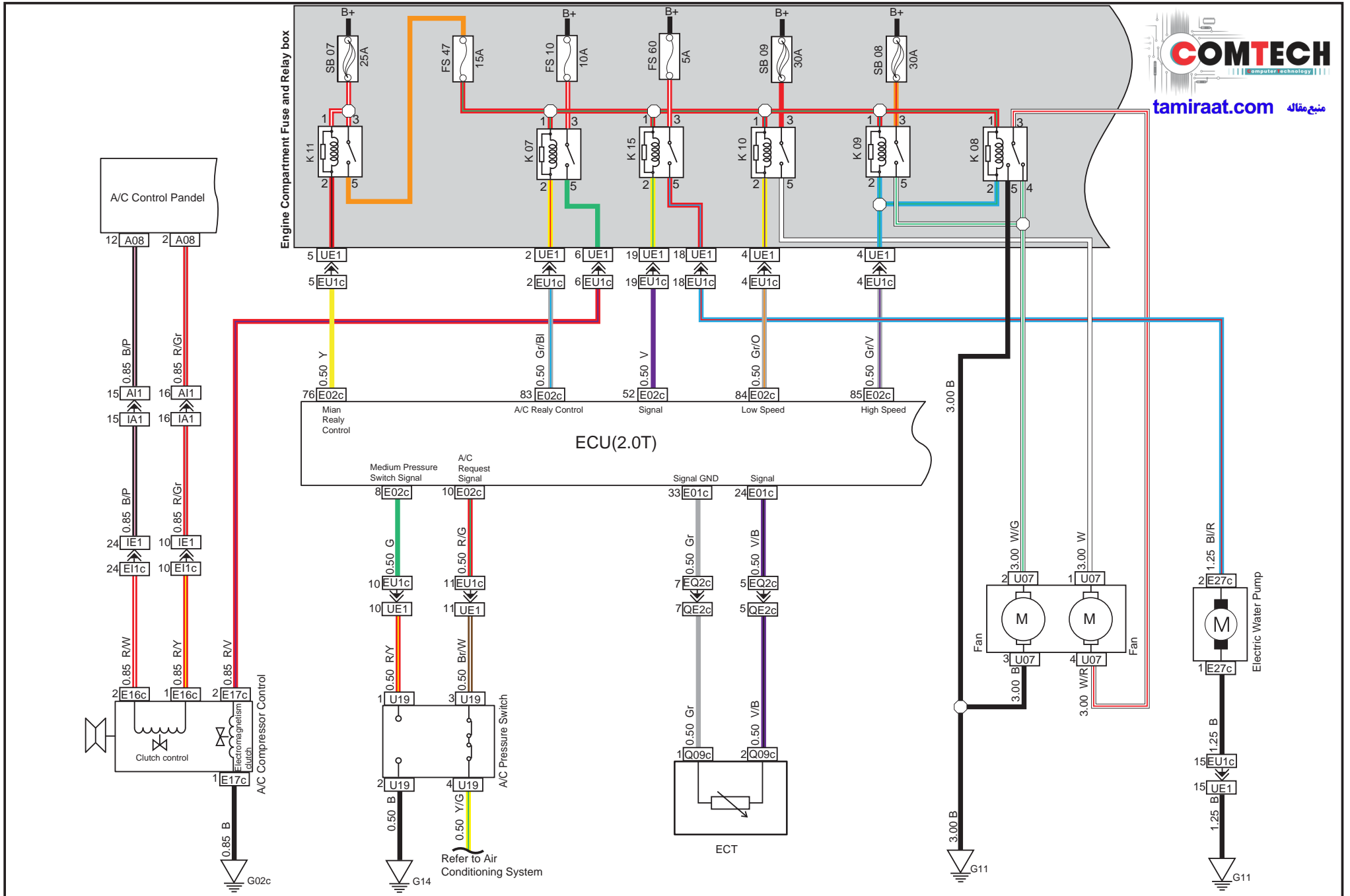


# Cooling System / A/C Compressor System(2.4VVT)





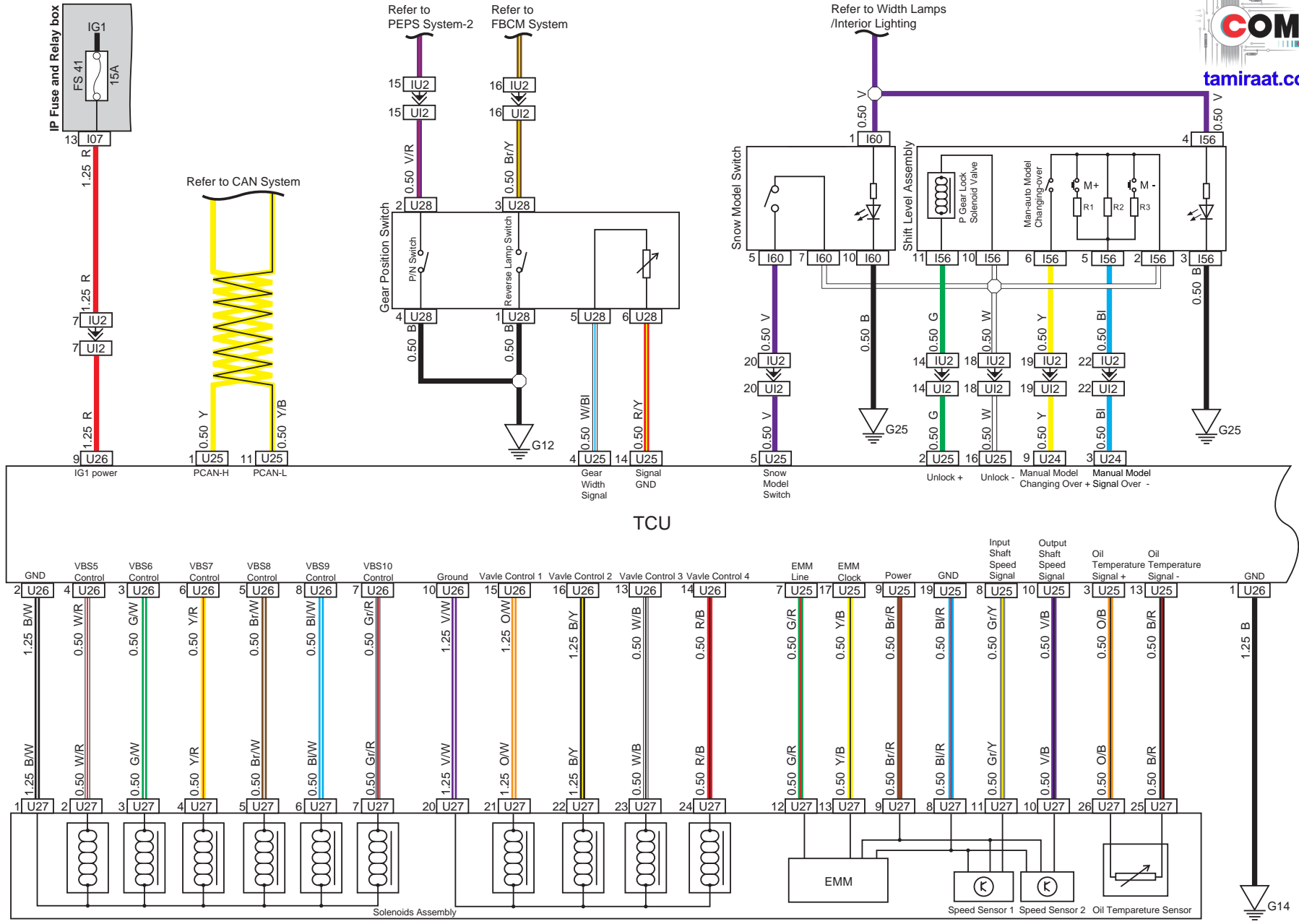
# Cooling System / A/C Compressor System(2.0T)



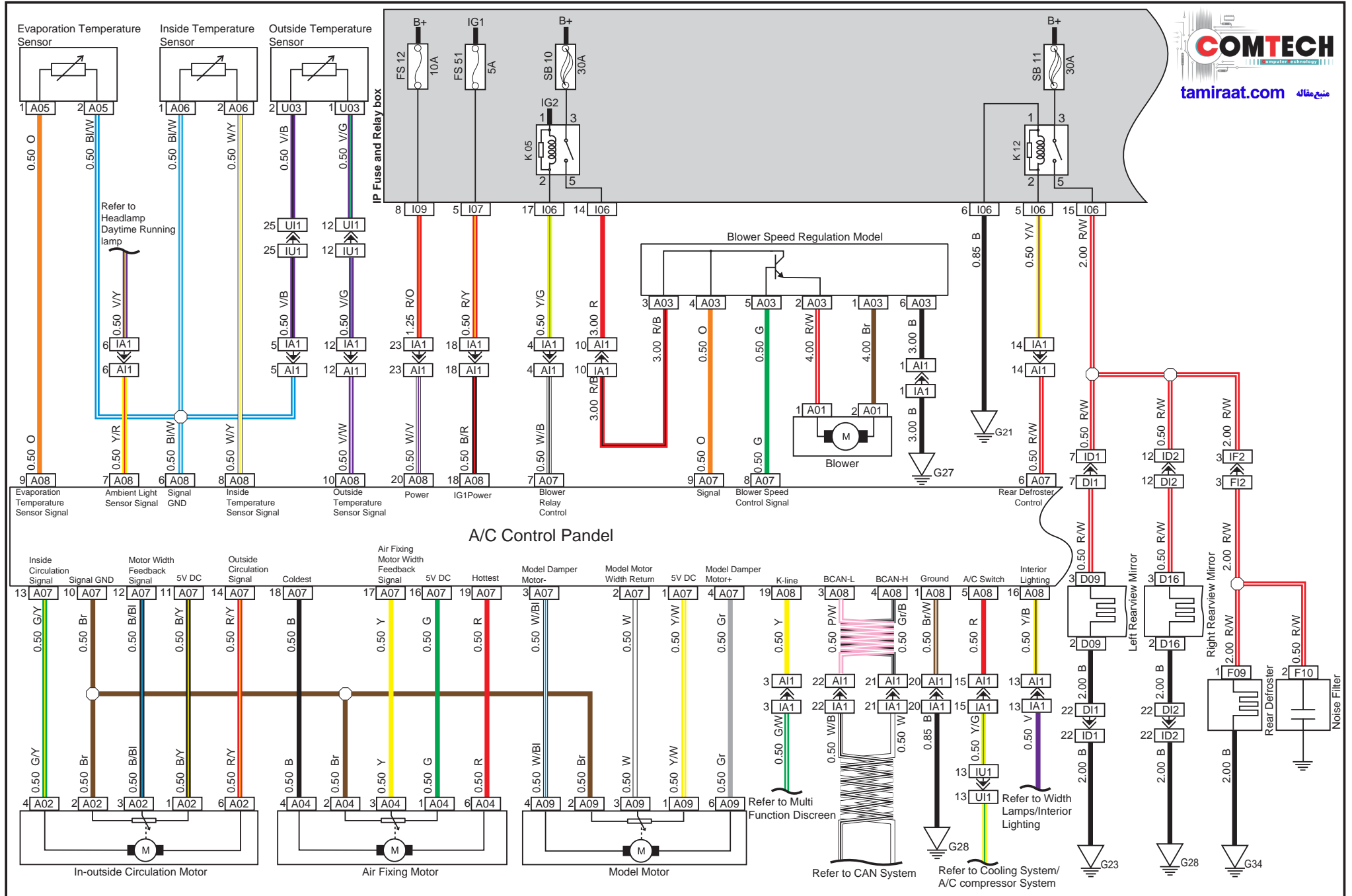
# TCU System



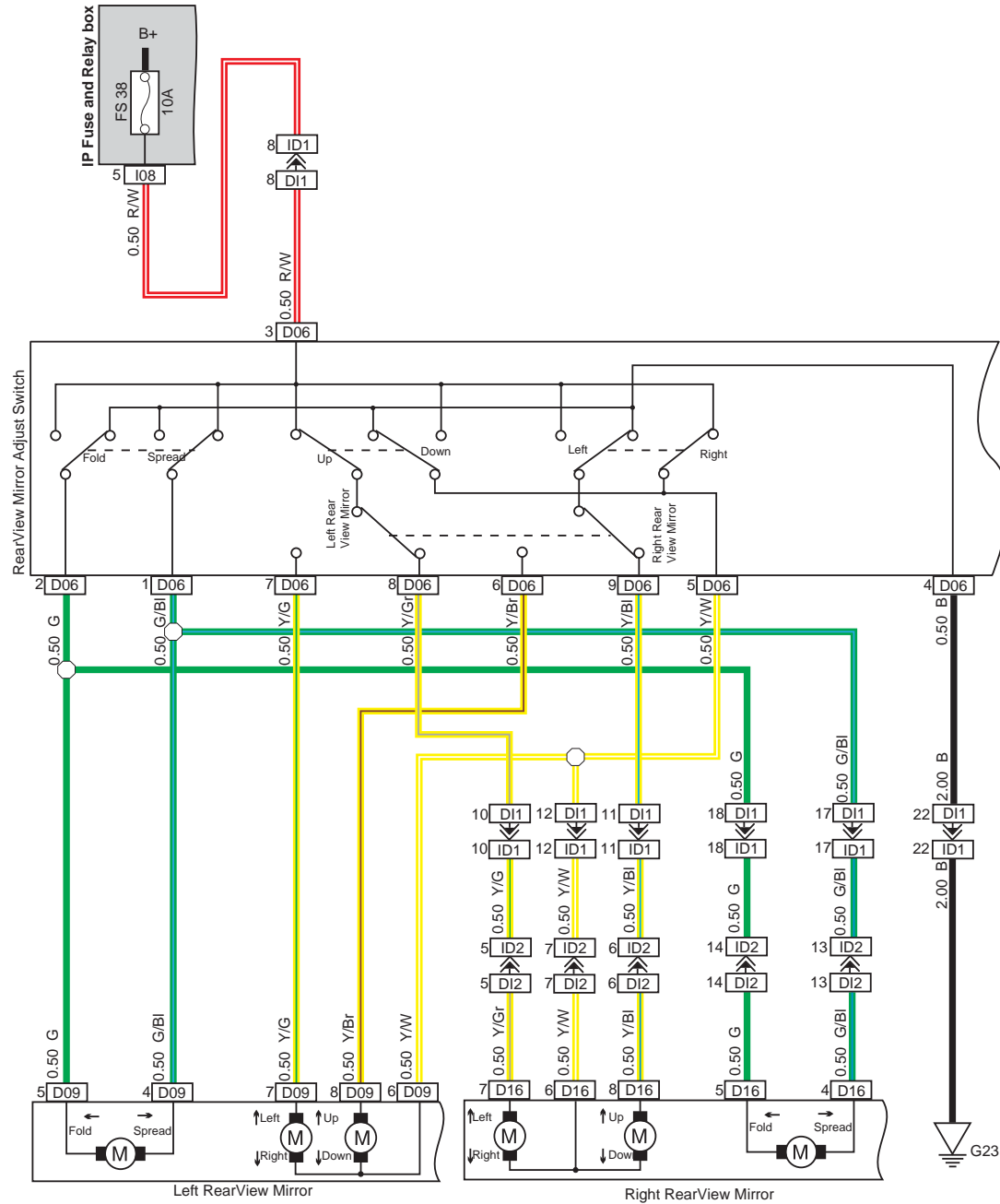
tamiraat.com منع مقاله



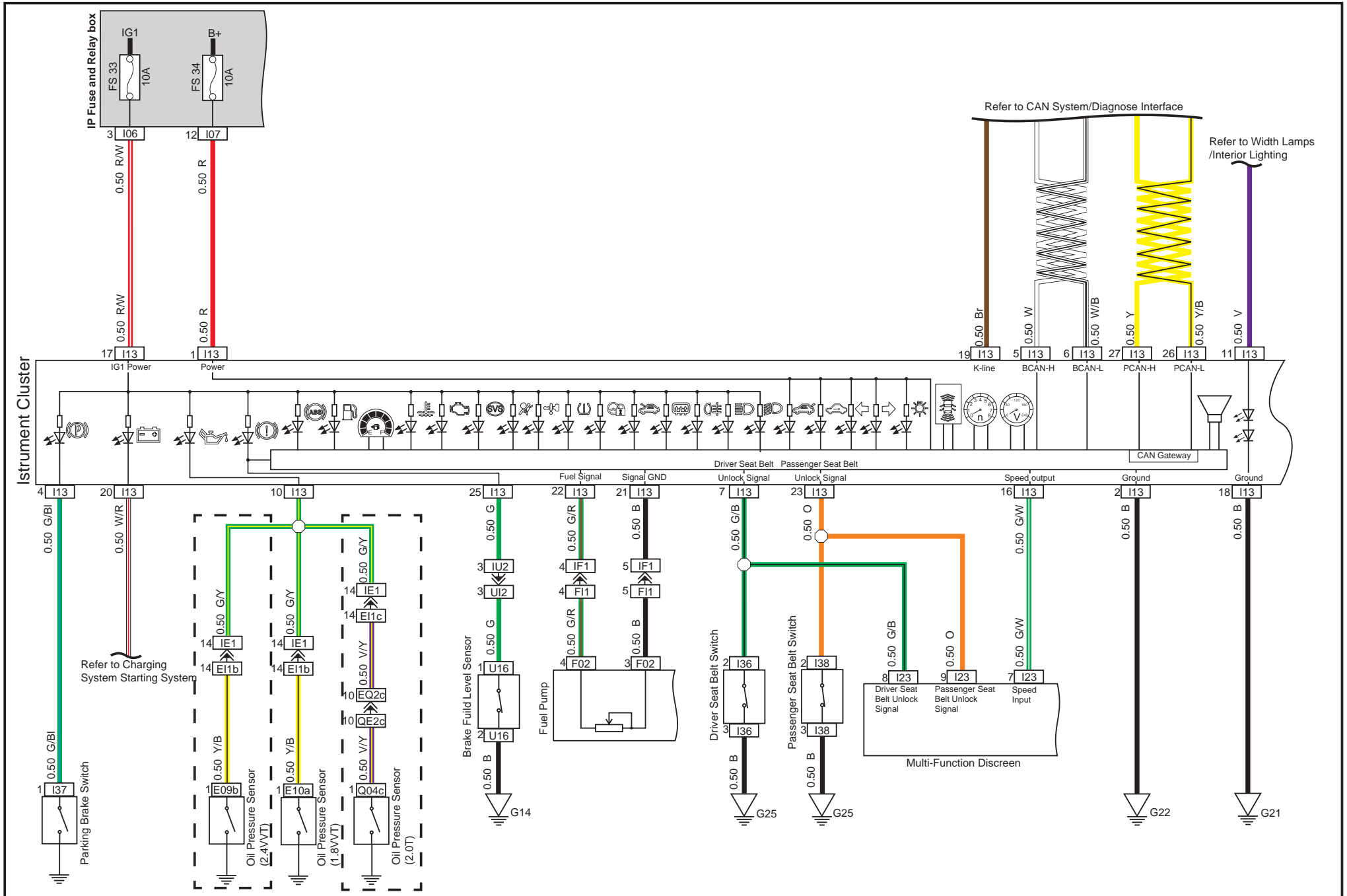
# Air Conditioning System / Rear Defroster



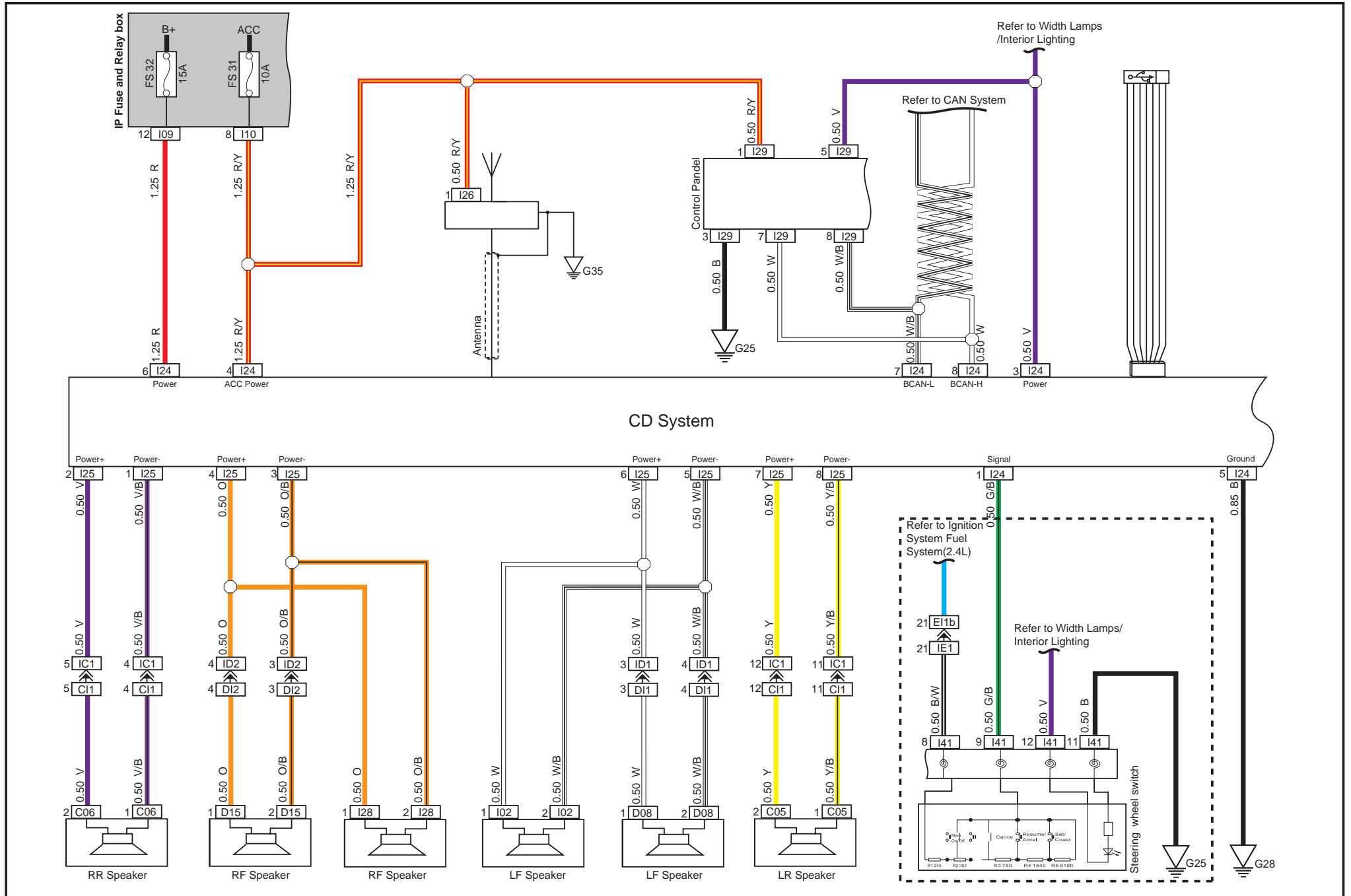
# Power RearView Mirror



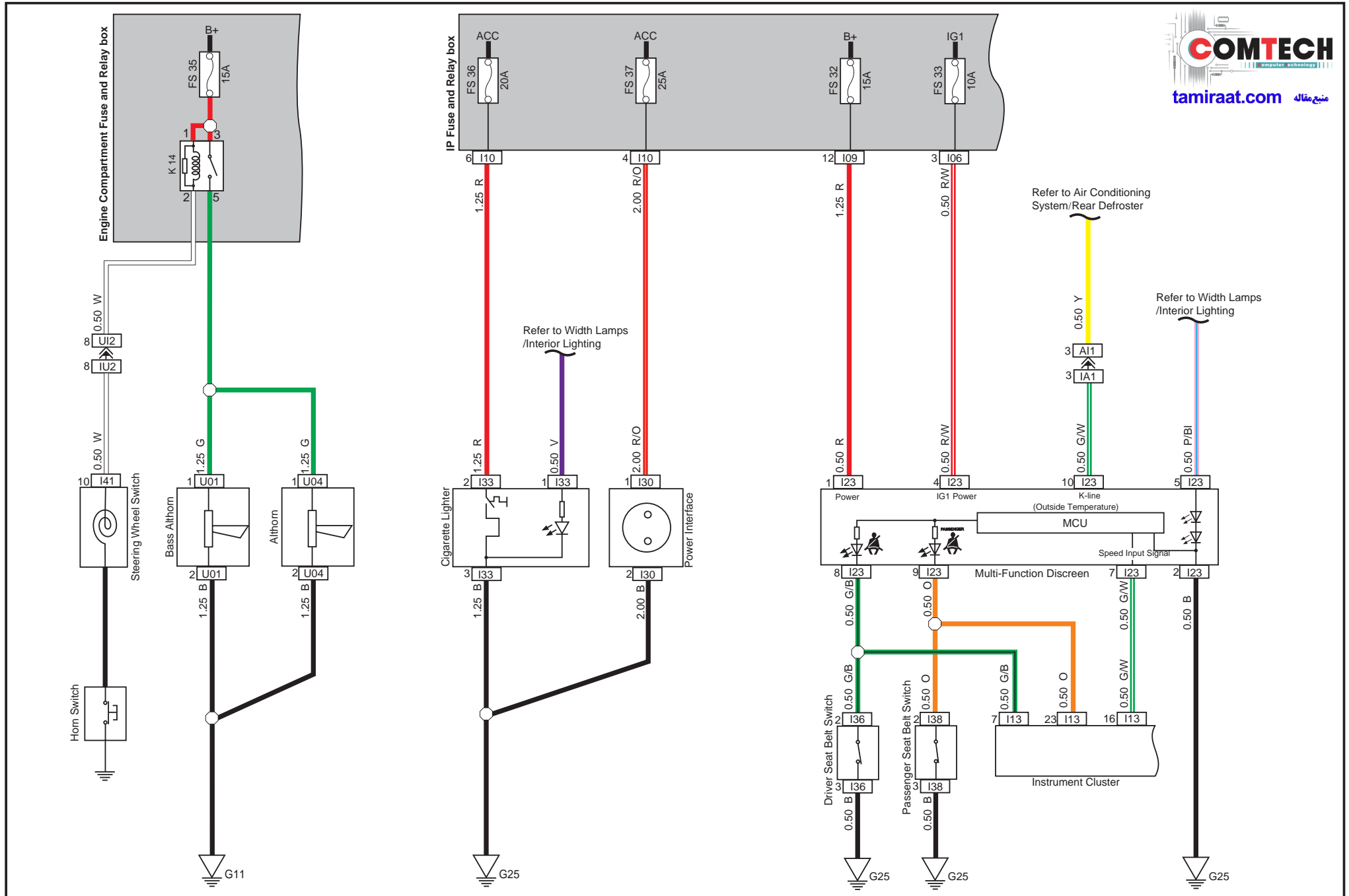
# Instrument Cluster System



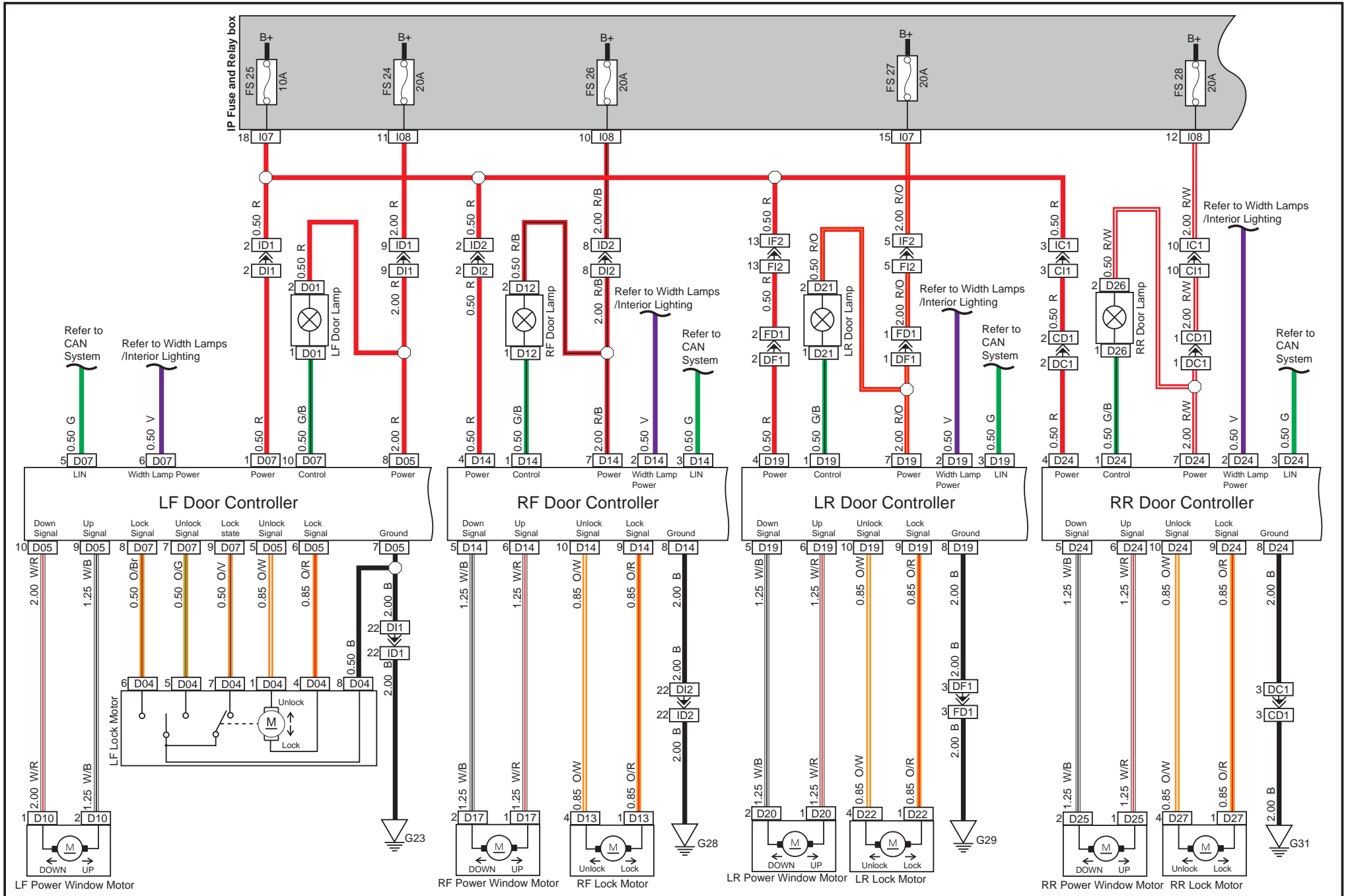
# CD System



# Multi-Function Discreen / Cigarette Lighter / Horn

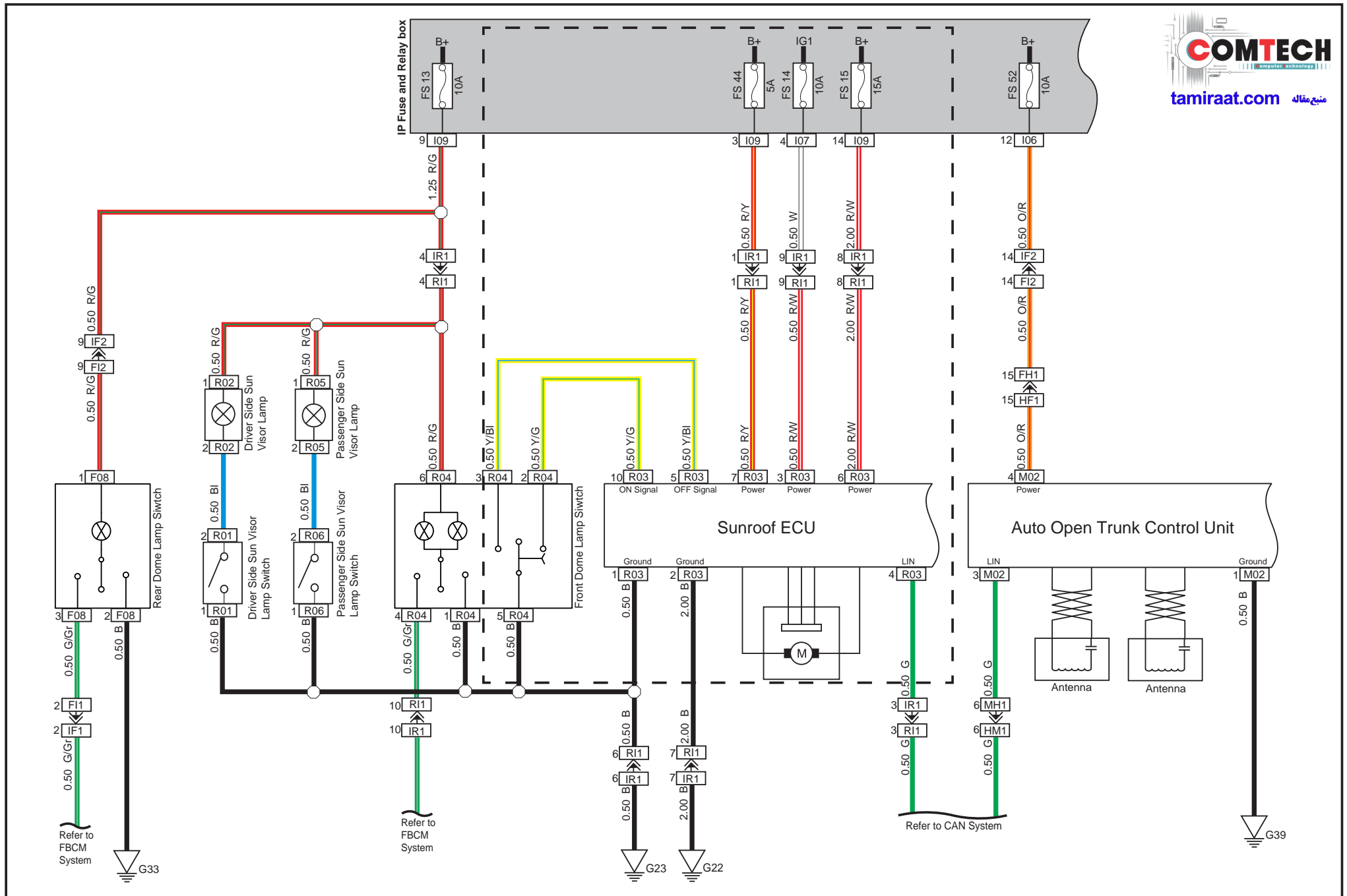


# Door Controller System

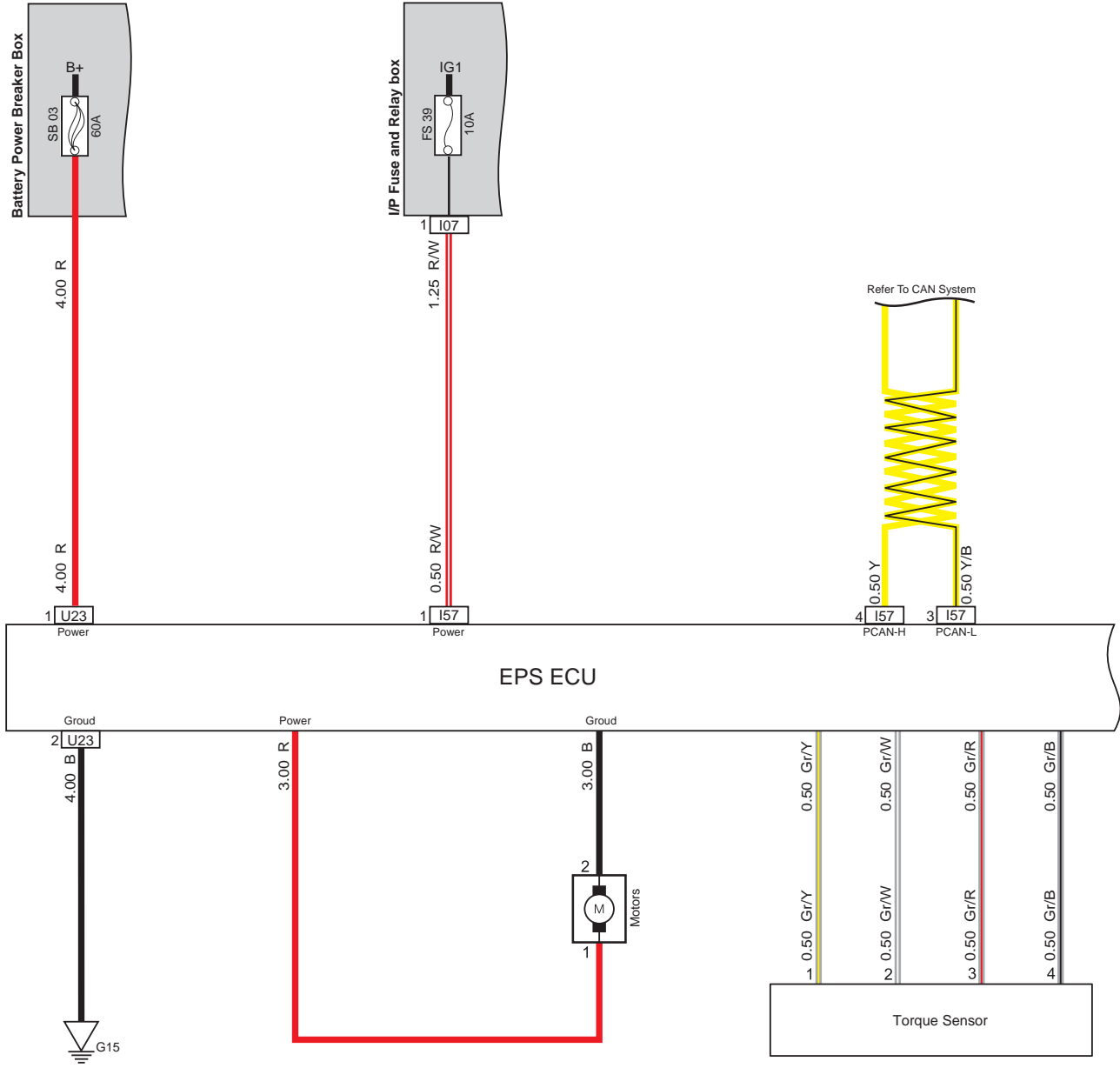




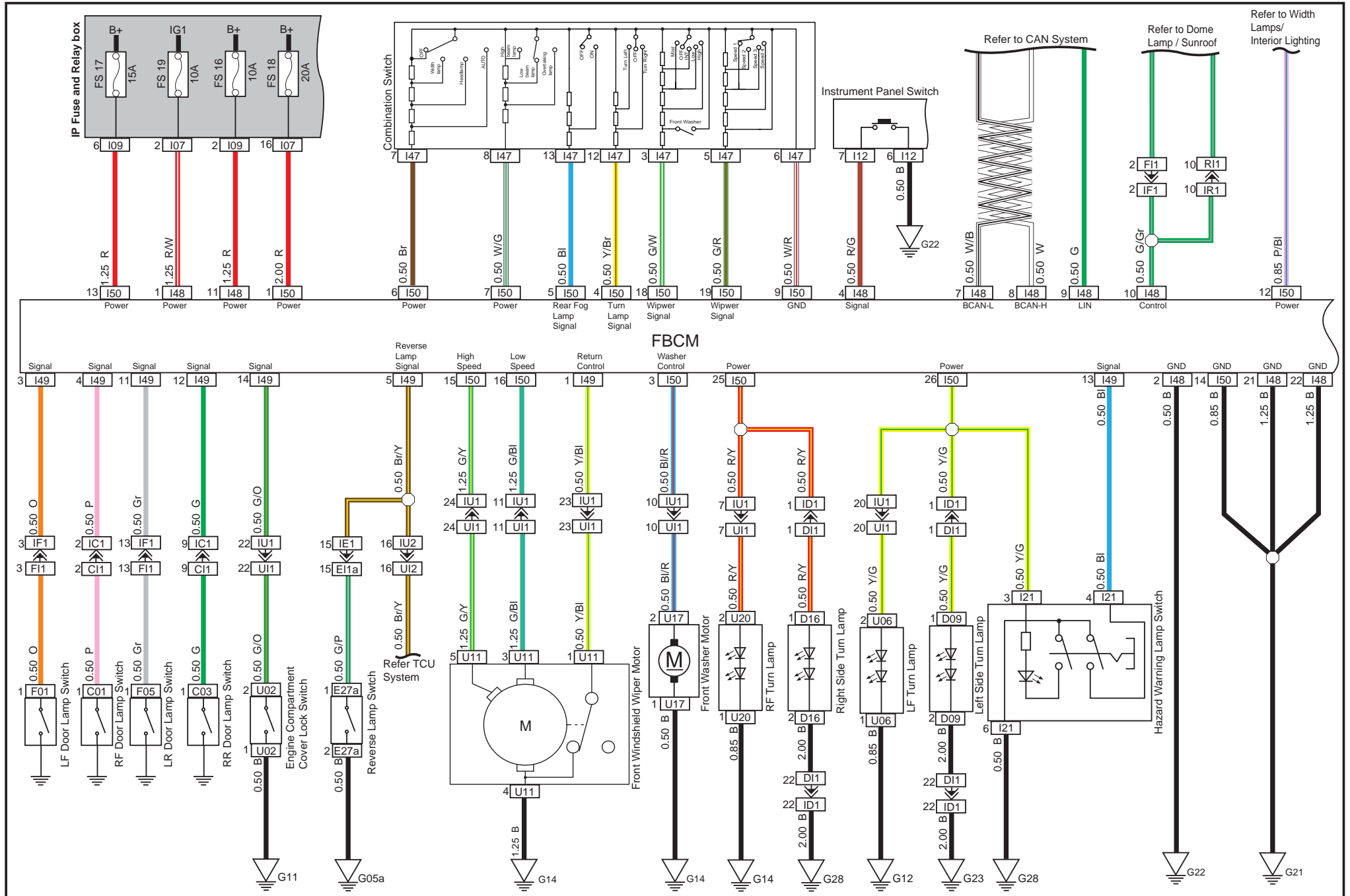
# Dome Lamp / Sunroof / Trunk System



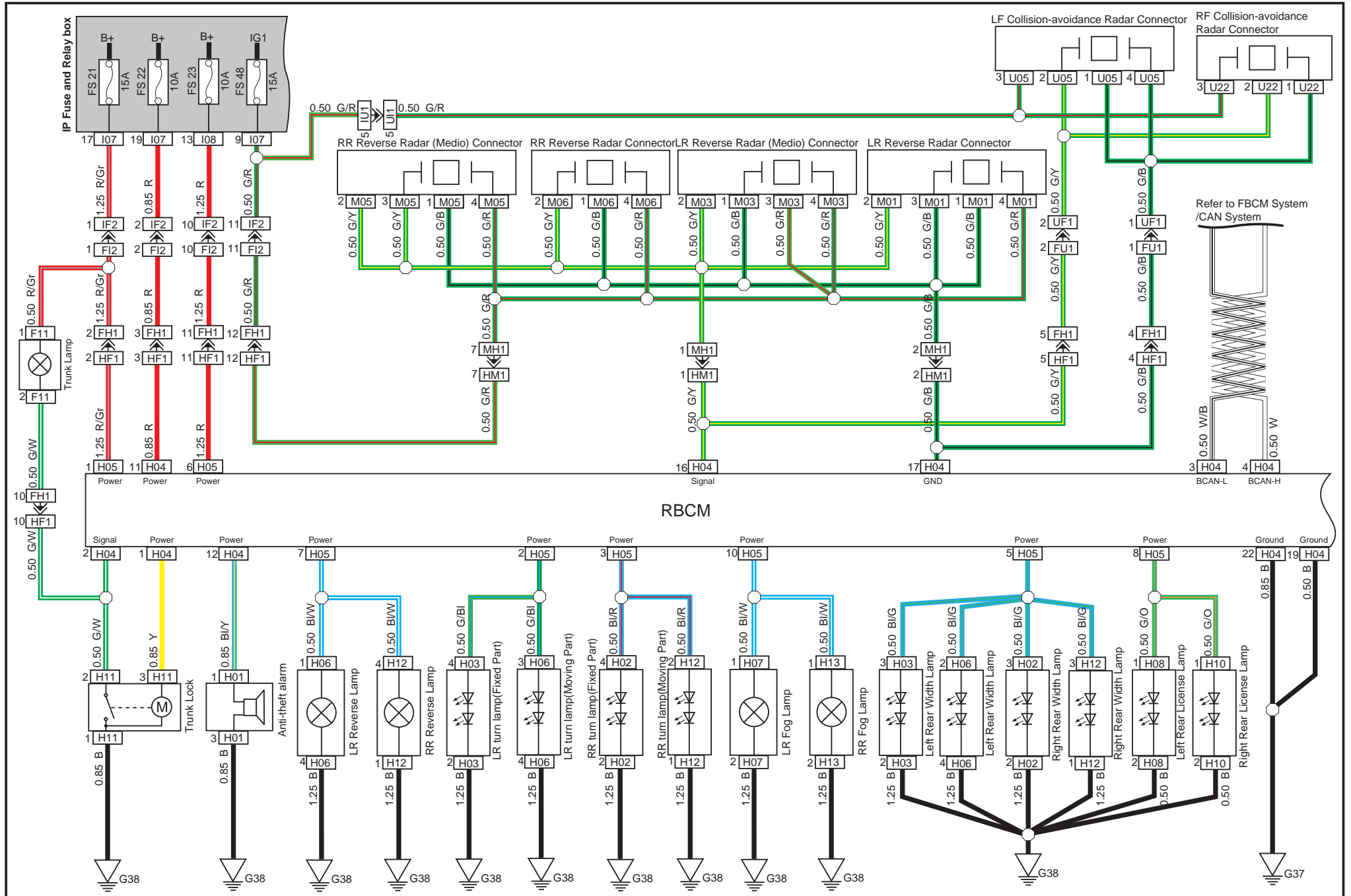
# EPS System



# FBCM System

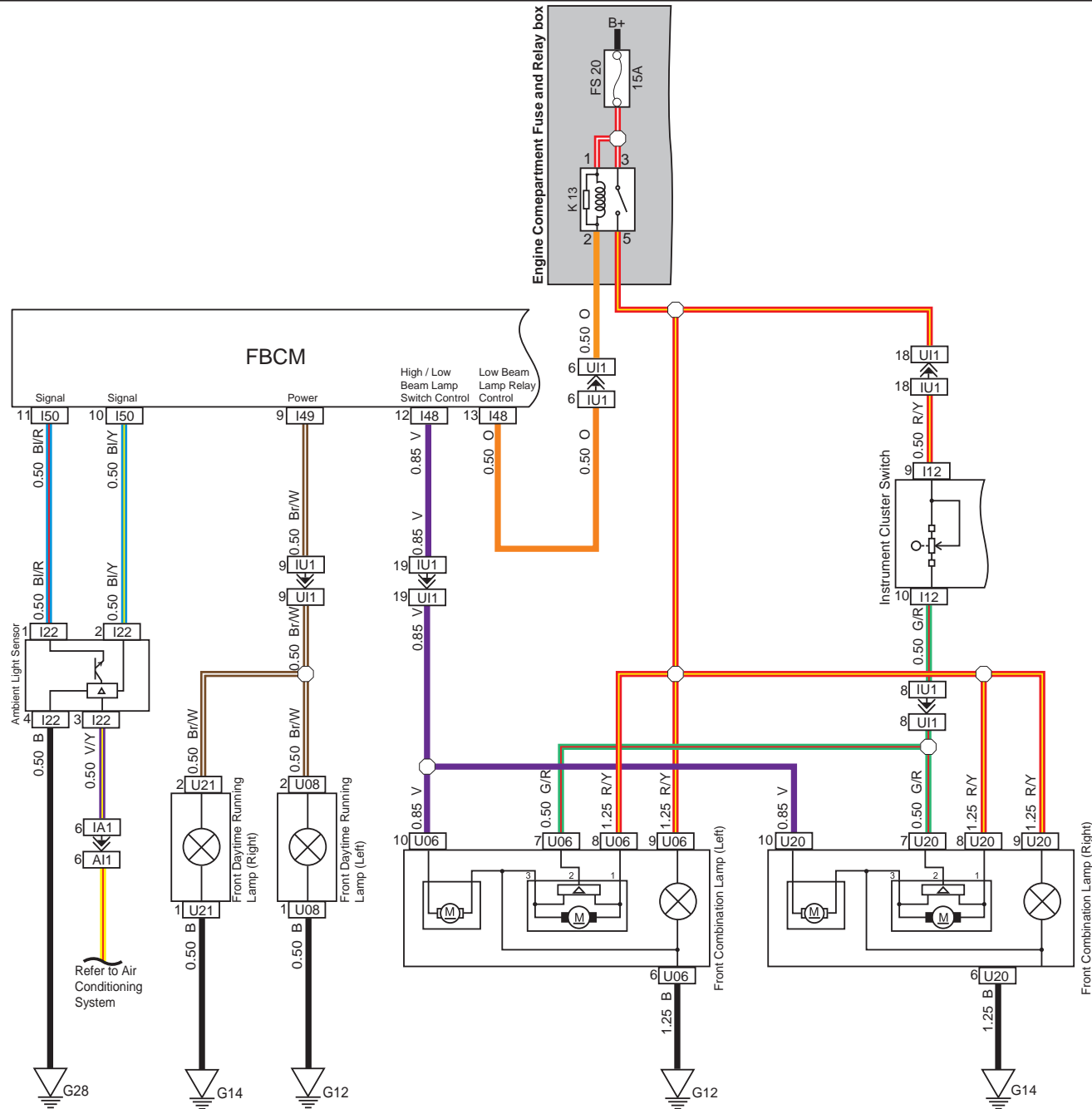


# RBCM System

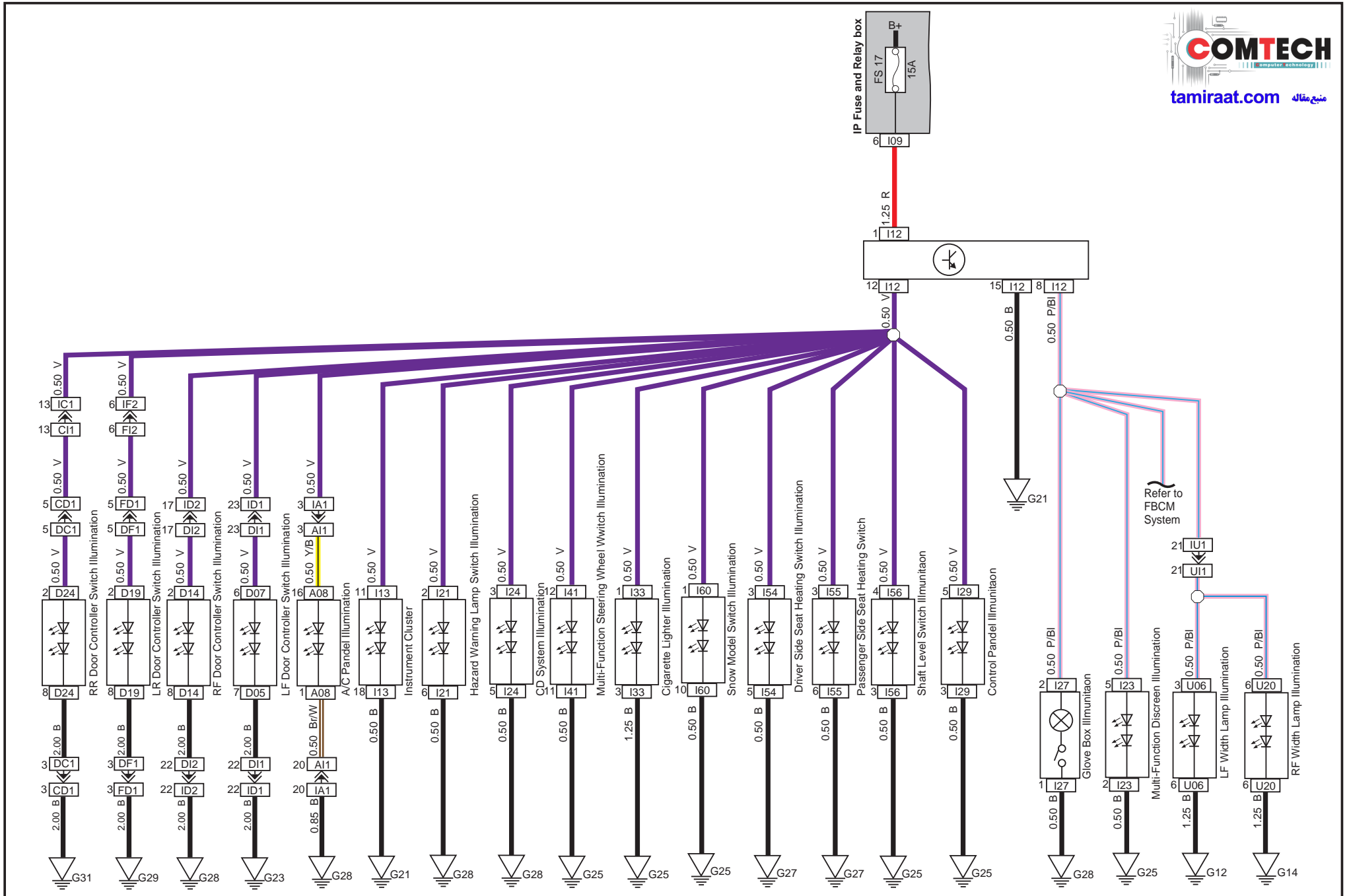


Refer to FBCM System /CAN System

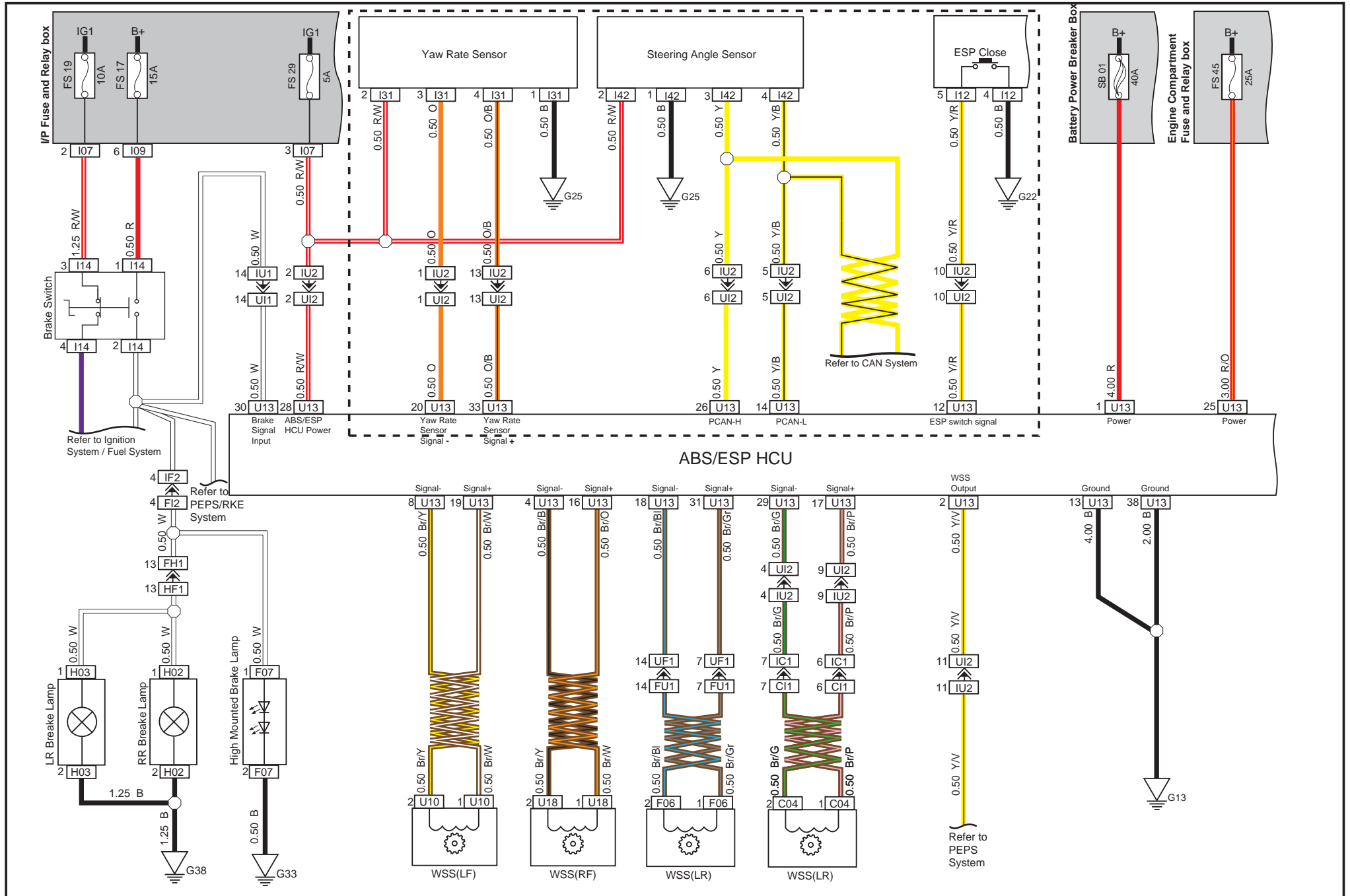
# Headlamps Daytime Running Lamp



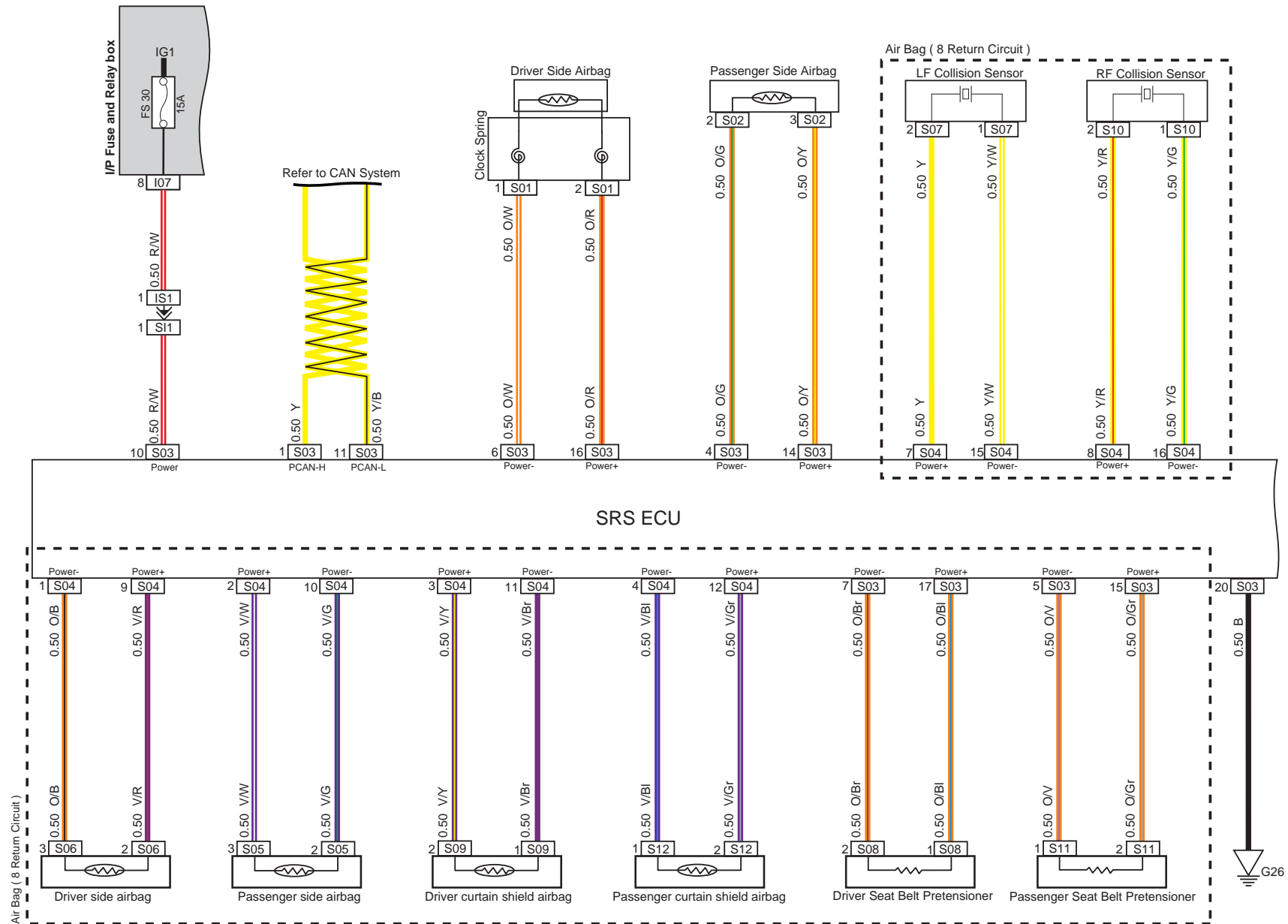
# Width Lamps / Interior Lighting



# Supplemental Restraint System

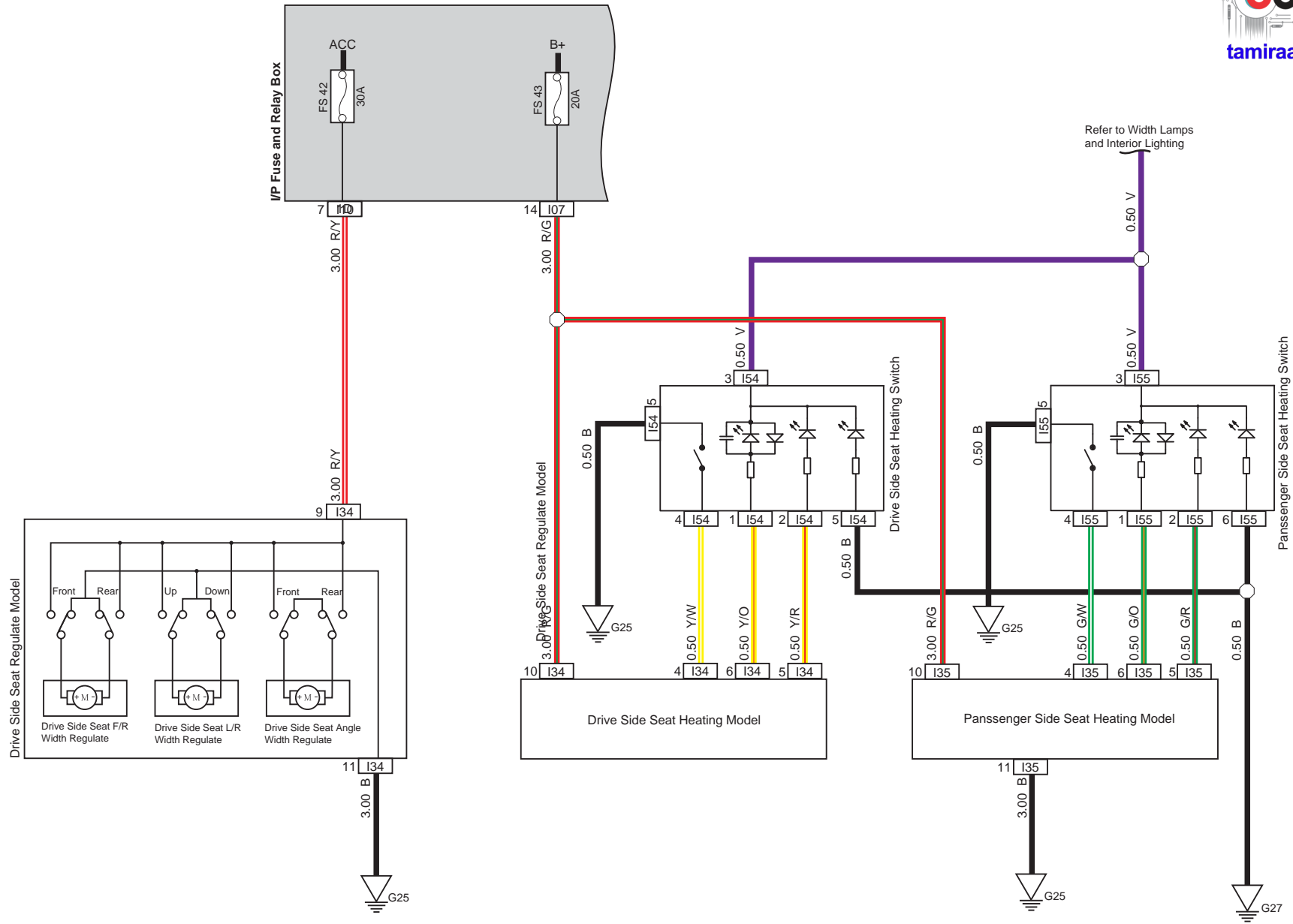


# ABS / ESP System / Brake Lamp

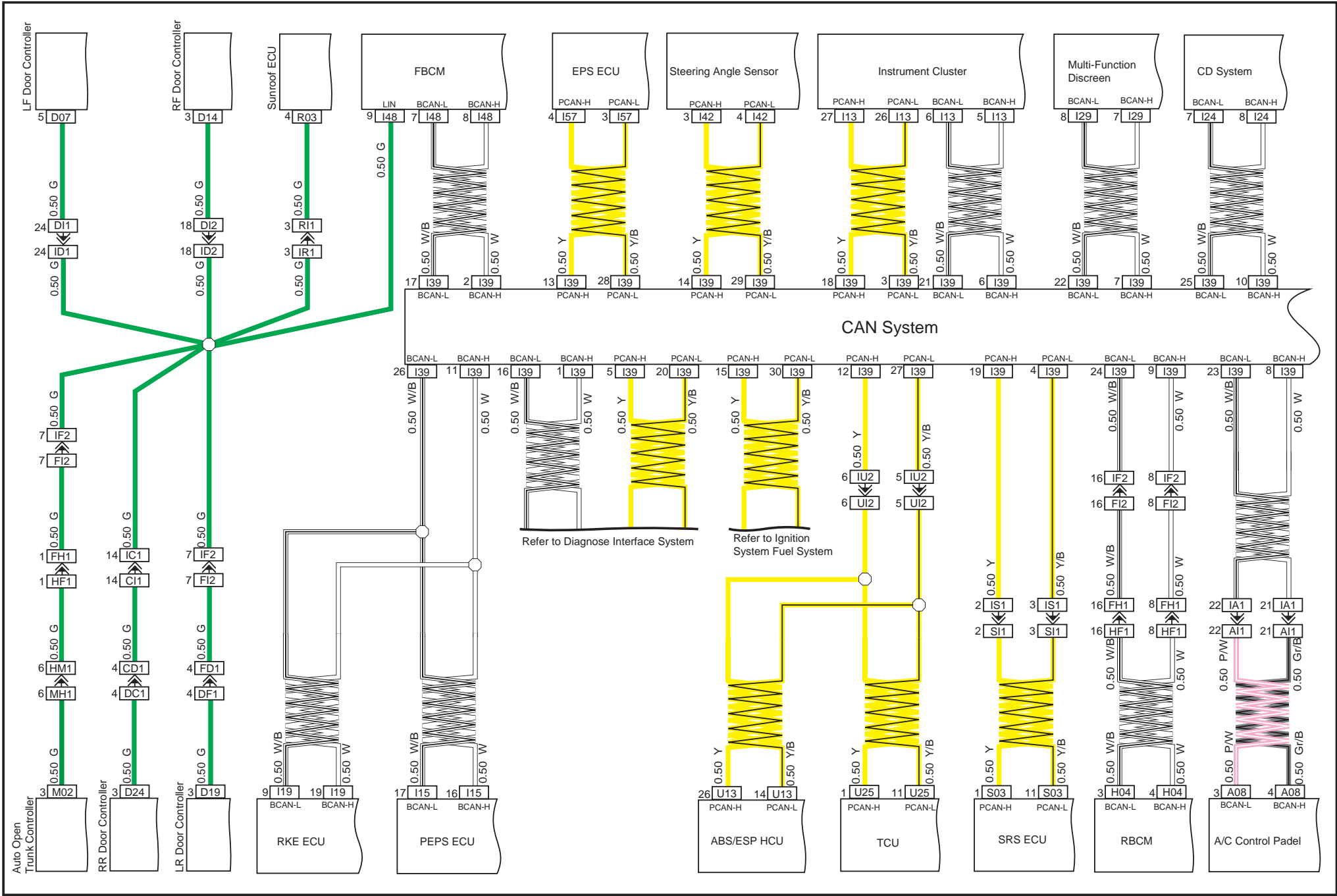




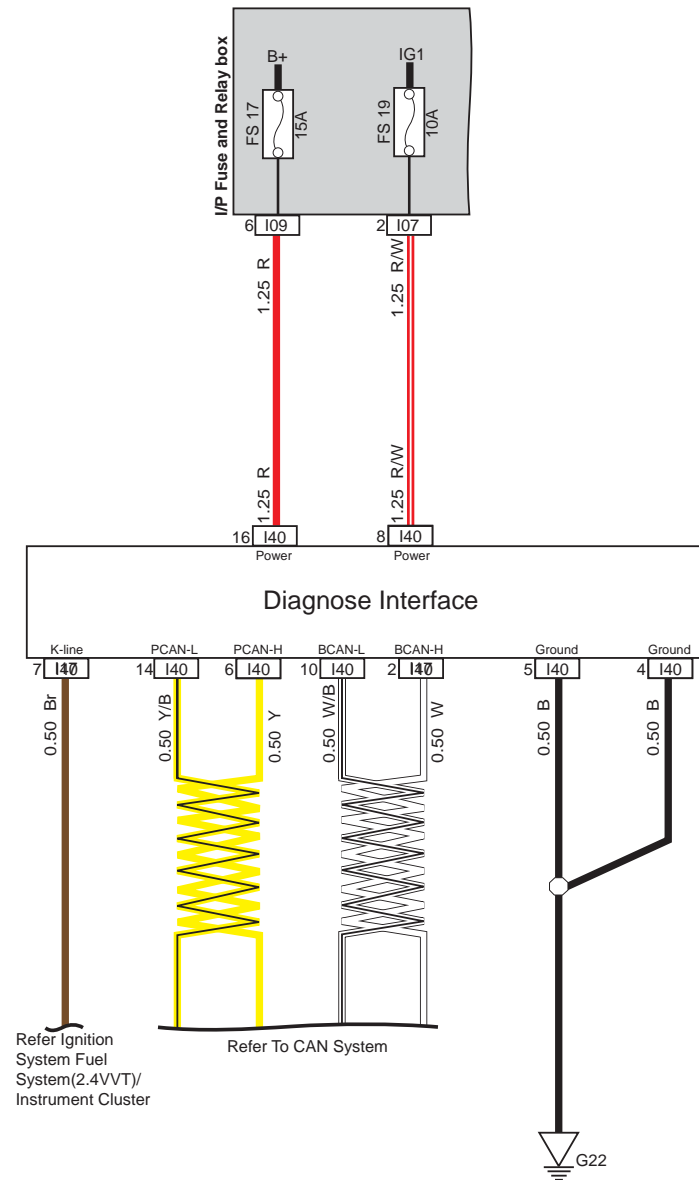
# Power Seat / Seat Heating System



# CAN System

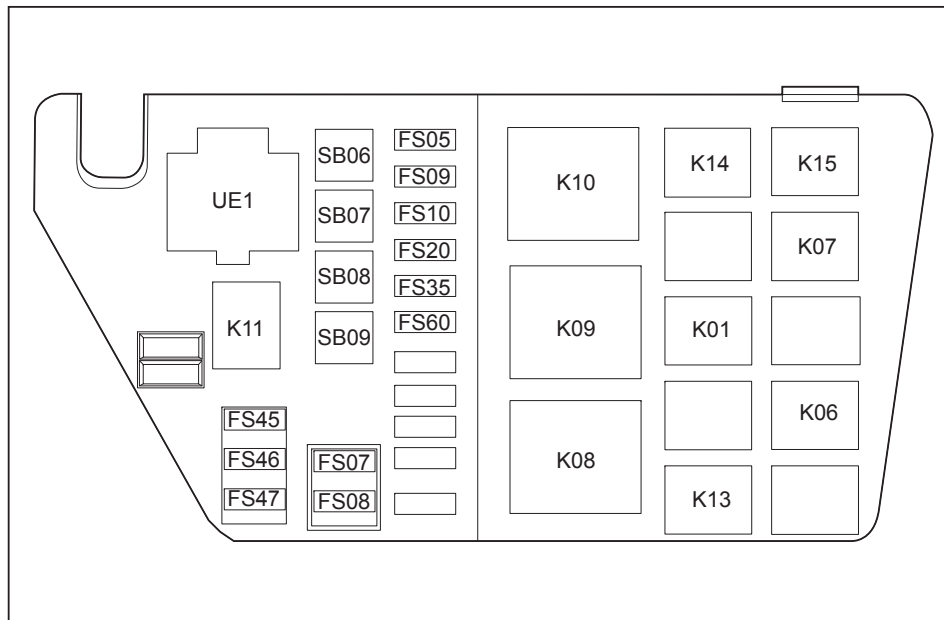


# Diagnose Interface System



# Engine Compartment Fuse and Relay Box

**Engine Compartment Fuse and Relay Box**



**Relay**

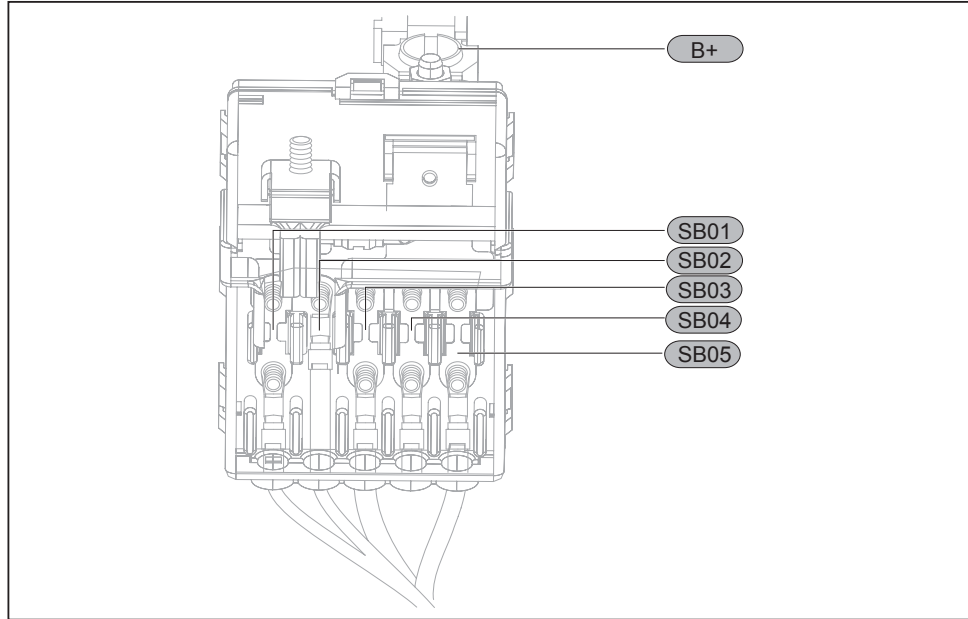
| Code | Application               | Description |
|------|---------------------------|-------------|
| K01  | Start Relay               |             |
| K06  | Fuel Pump Relay           |             |
| K07  | Compressor Relay          |             |
| K08  | Adjusting Fan Relay       |             |
| K09  | High Speed Fan Relay      |             |
| K10  | Low Speed Fan Relay       |             |
| K11  | Main Relay                |             |
| K13  | High/Low-Beam Lamp Relay  |             |
| K14  | Horn Relay                |             |
| K15  | Electric Water Pump Relay | 2.0T Engine |
|      |                           |             |
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**Fuse**

| Code | Application              | Rated Current (A) | Description |
|------|--------------------------|-------------------|-------------|
| FS05 | ECU Fuse                 | 10A               |             |
| FS07 | Front Oxygen Sensor Fuse | 5A                |             |
| FS08 | Rear Oxygen Sensor Fuse  | 5A                |             |
| FS09 | Fuel Pump Fuse           | 15A               |             |
| FS10 | A/C Compressor Fuse      | 10A               |             |
| FS20 | Low-Beam Lamp Fuse       | 15A               |             |
| FS35 | Horn Fuse                | 15A               |             |
| FS45 | ABS Fuse                 | 25A               |             |
| FS46 | Ignition Coil Fuse       | 15A               |             |
| FS47 | Injector Fuse            | 15A               |             |
| FS60 | Electric Water Pump Fuse | 5A                |             |
| SB06 | Startor Fuse             | 20A               | 2.0T Engine |
| SB07 | Main Relay Fuse          | 25A               |             |
| SB08 | High Speed Fan Fuse      | 30A               |             |
| SB09 | Low Speed Fan Fuse       | 30A               |             |
|      |                          |                   |             |
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# Battery Power Breaker Box

Battery Power Breaker Box

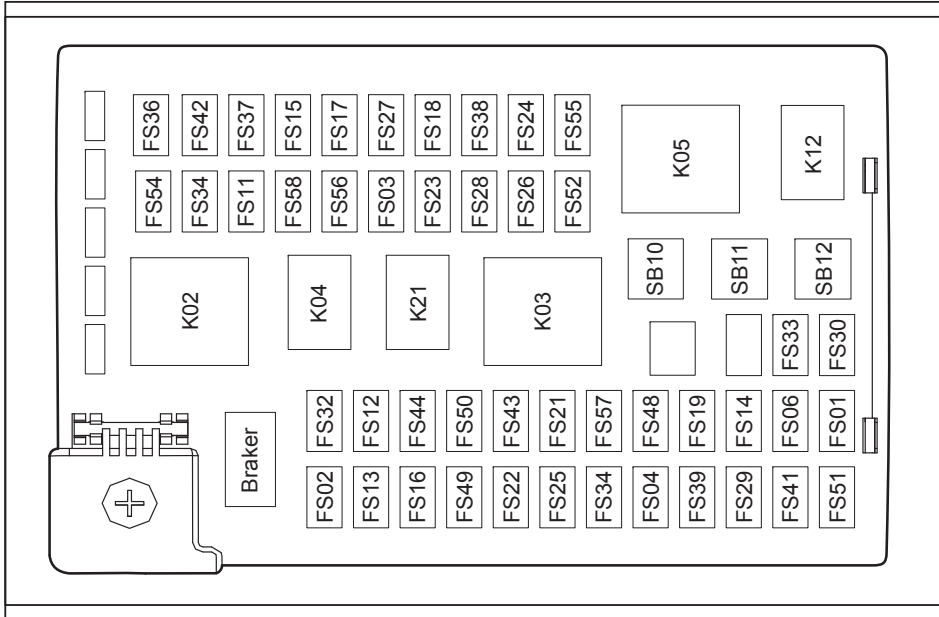


## Fuse

| Code | Application                            | Rated Current (A) | Description |
|------|--|-------------------|-------------|
| SB01 | ABS/ESP Pump Fuse                      | 40A               |             |
| SB02 | ABS/ESP Vavle Fuse                     | --                |             |
| SB03 | EPS Motor Fuse                         | 60A               |             |
| SB04 | Engine Compartment Fuse and Relay Fuse | 80A               |             |
| SB05 | IP Fuse and Relay                      | 80A               |             |
|      |  |                   |             |
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# IP Fuse and Relay Box

IP Fuse and Relay Box



Relay

| Code | Application          | Description |
|------|----------------------|-------------|
| K02  | ACC Relay            |             |
| K03  | IG1 Relay            |             |
| K04  | IG2 Relay            |             |
| K05  | Blower Relay         |             |
| K12  | Rear Defroster Relay |             |
| K21  | Spare Relay          |             |
|      |                      |             |
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Fuse

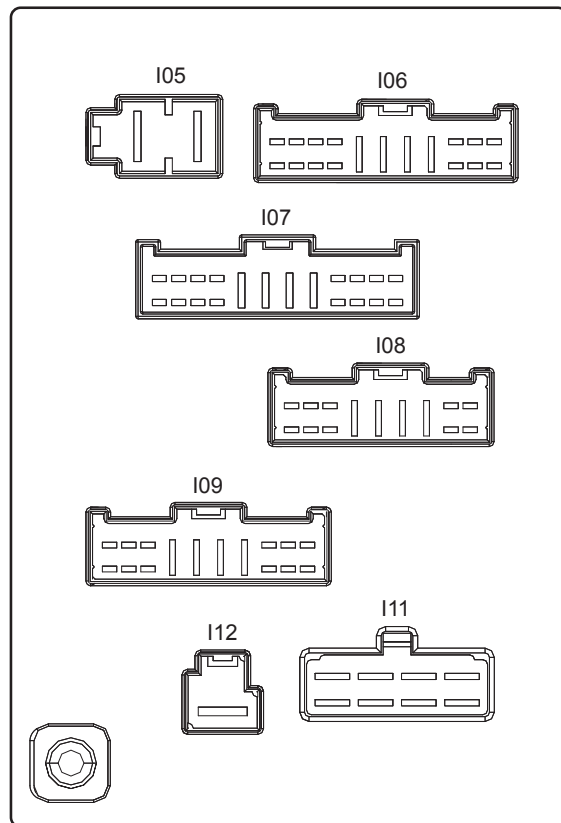
| Code | Application                                     | Rated Current (A) | Description |
|------|---|-------------------|-------------|
| FS01 | Alternator Fuse                                 | 10A               |             |
| FS02 | Spare Fuse                                      | 10A               |             |
| FS03 | PEPS/RKE Fuse                                   | 5A                |             |
| FS04 | ESCL Fuse                                       | 15A               |             |
| FS06 | ECU IG1 Fuse                                    | 10A               |             |
| FS11 | Spare Fuse                                      | 5A                |             |
| FS12 | A/C Fuse  | 10A               |             |
| FS13 | Dome Lamp Fuse                                  | 10A               |             |
| FS14 | Sunroof IG1 Fuse                                | 10A               |             |
| FS15 | Sunroof Motor Fuse                              | 15A               |             |
| FS16 | FBCM Fuse                                       | 10A               |             |
| FS17 | Turn/Width Lamp Fuse                            | 15A               |             |
| FS18 | FBCM(Wiper/Washer) Fuse                         | 20A               |             |
| FS19 | FBCM IG1 Fuse                                   | 10A               |             |
| FS21 | RBCM Rear Lamp Fuse 1                           | 15A               |             |
| FS22 | RBCM  | 10A               |             |
| FS23 | RBCM Rear Lamp Fuse 2                           | 10A               |             |
| FS24 | LF Door Lamp/LF Door Lock Fuse                  | 20A               |             |
| FS25 | Door Controller Fuse                            | 10A               |             |
| FS26 | RF Door Lamp/Door Lock Fuse                     | 20A               |             |
| FS27 | LR Door Lamp/Door Lock Fuse                     | 20A               |             |
| FS28 | RR Door Lamp/Door Lock Fuse                     | 20A               |             |
| FS29 | ABS IG1 Fuse                                    | 5A                |             |
| FS30 | SRS IG1 Fuse                                    | 15A               |             |
| FS31 | CD/Multi-Function Discreen Fuse                 | 10A               |             |
| FS32 | CD/Multi-Function Discreen Fuse                 | 15A               |             |
| FS33 | Instrument Cluster/Multi-Function Discreen Fuse | 10A               |             |
| FS34 | Instrument Cluster Fuse                         | 10A               |             |
| FS36 | Cigarette Lamper Fuse                           | 20A               |             |
| FS37 | Power Fuse                                      | 25A               |             |
| FS38 | Power Rearrearview Mirror Fuse                  | 10A               |             |
| FS39 | EPS IG1 Fuse                                    | 10A               |             |
| FS41 | TCU IG1 Fuse                                    | 15A               |             |
| FS42 | Seat Regulate Fuse                              | 30A               |             |
| FS43 | Seat Heating Fuse                               | 20A               |             |
| FS44 | Sunroof ECU Fuse                                | 5A                |             |
| FS48 | Reverse Lamp Fuse                               | 15A               |             |
| FS49 | Spare Fuse                                      | 15A               |             |
| FS50 | Spare Fuse                                      | 15A               |             |
| FS51 | A/C panel Fuse                                  | 5A                |             |
| FS52 | Trunk Switch Fuse                               | 10A               |             |
| FS54 | Spare Fuse                                      | 20A               |             |
| FS55 | EPB Fuse  | 30A               |             |
| FS56 | Spare Fuse                                      | 10A               |             |

# IP Fuse and Relay Box

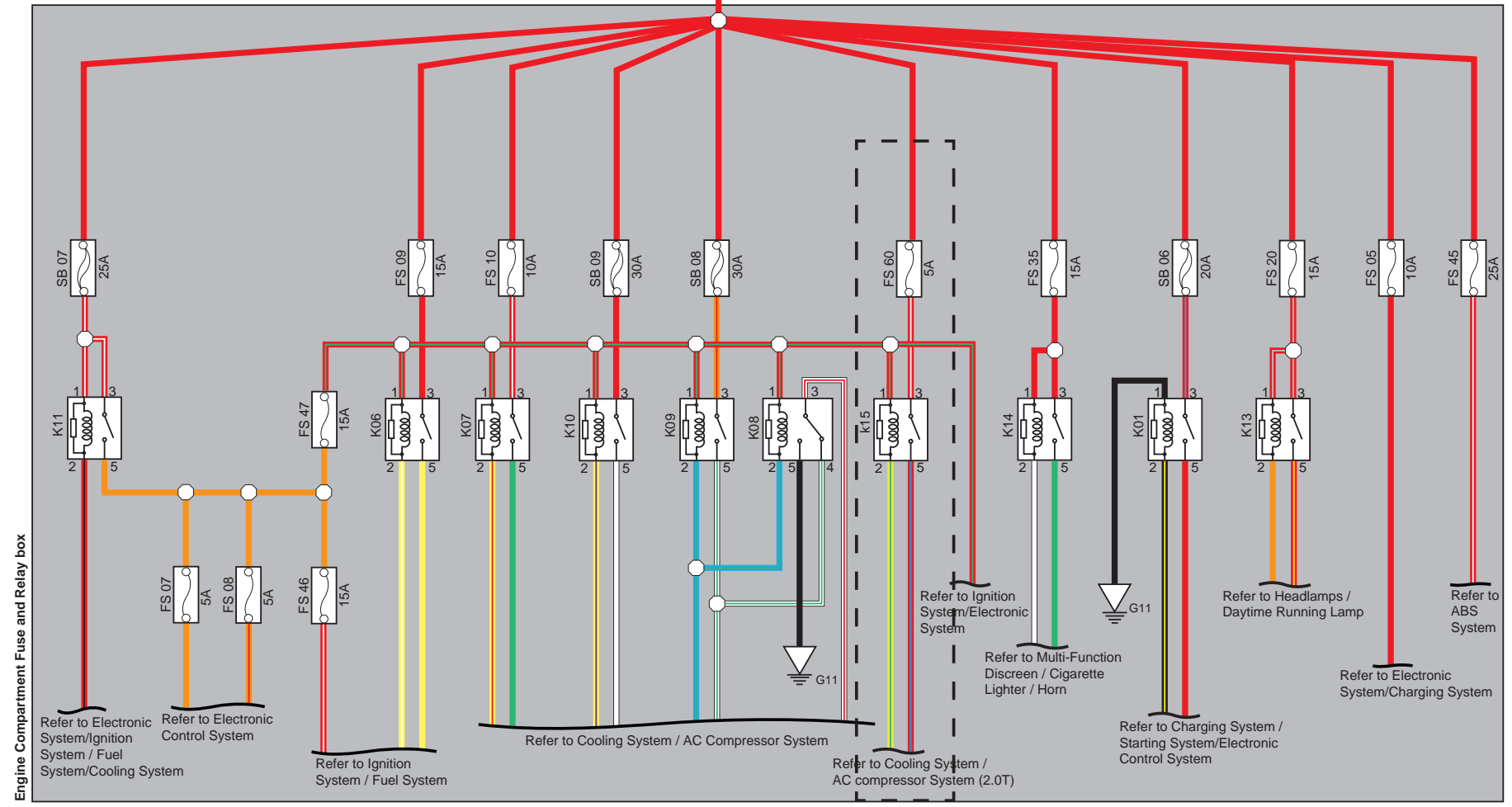
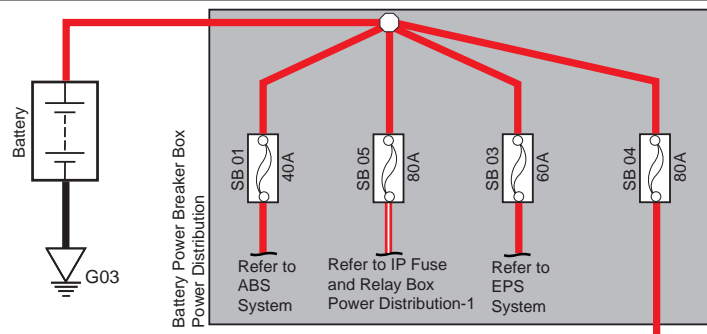
## Fuse

| Code | Application         | Rated Current (A) | Description |
|------|---------------------|-------------------|-------------|
| FS57 | PEPS/RKE Fuse       | 10A               |             |
| FS58 | Spare Fuse          | 10A               |             |
| SB10 | Blower Fuse         | 30A               |             |
| SB11 | Rear Defroster Fuse | 30A               |             |
| SB12 | Spare Fuse          | 30A               |             |
|      |                     |                   |             |
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## I/P Fuse and Relay Box Back View

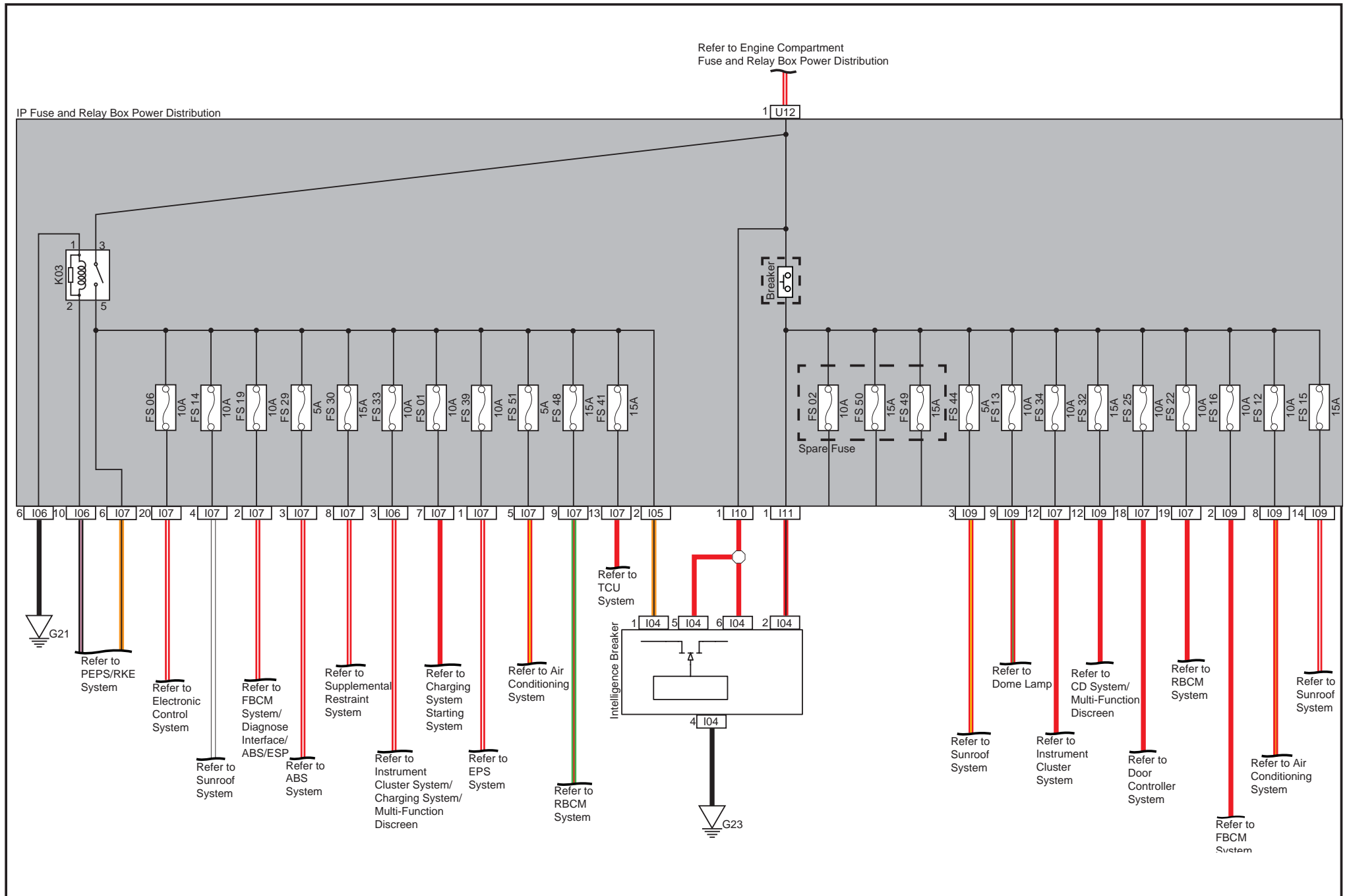


# Engine Compartment Fuse and Relay Box Power Distribution

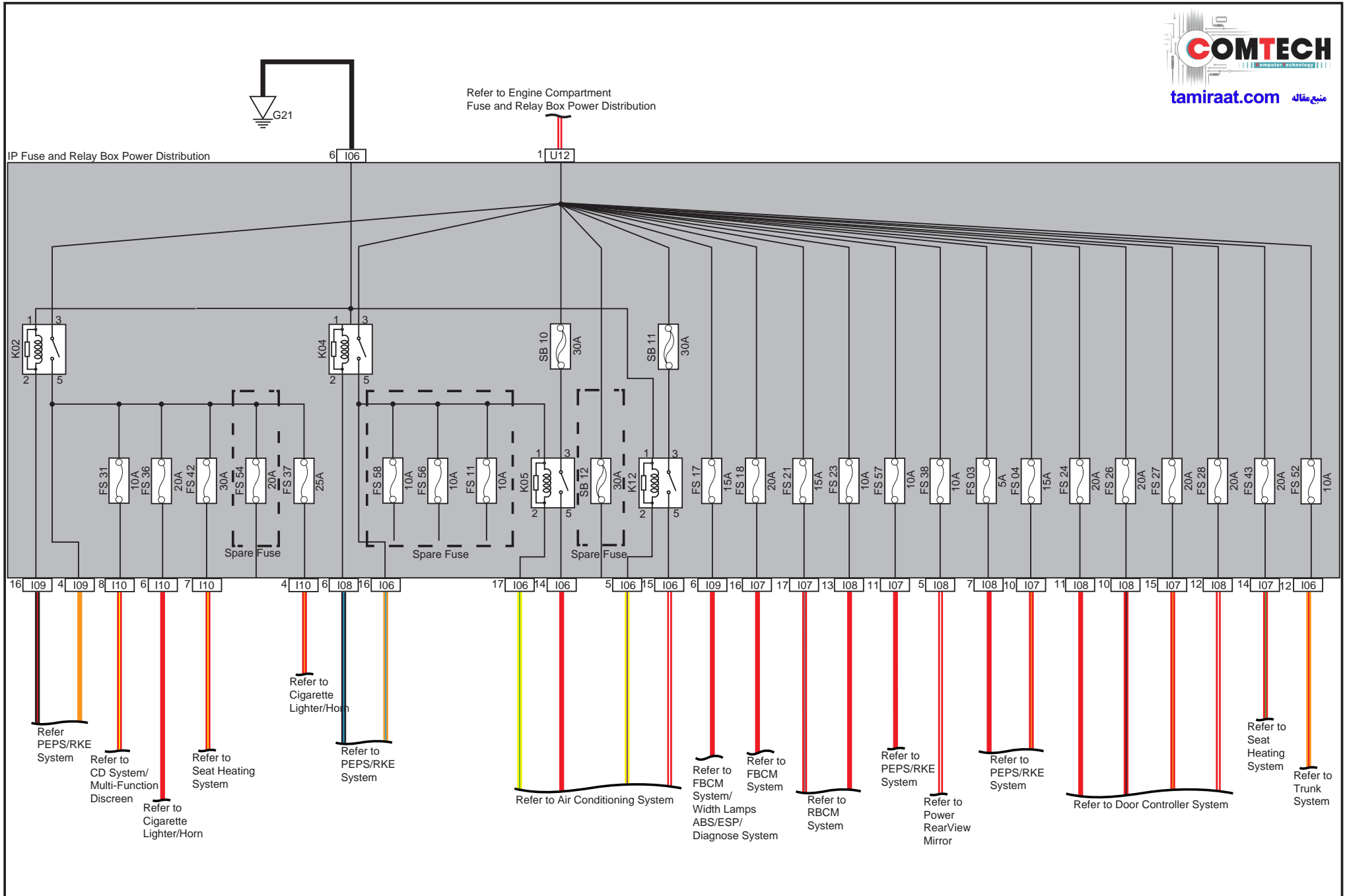




# IP Fuse and Relay Box Power Distribution-1

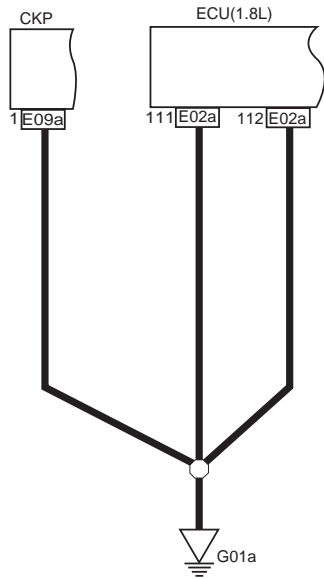


# IP Fuse and Relay Box Power Distribution-2

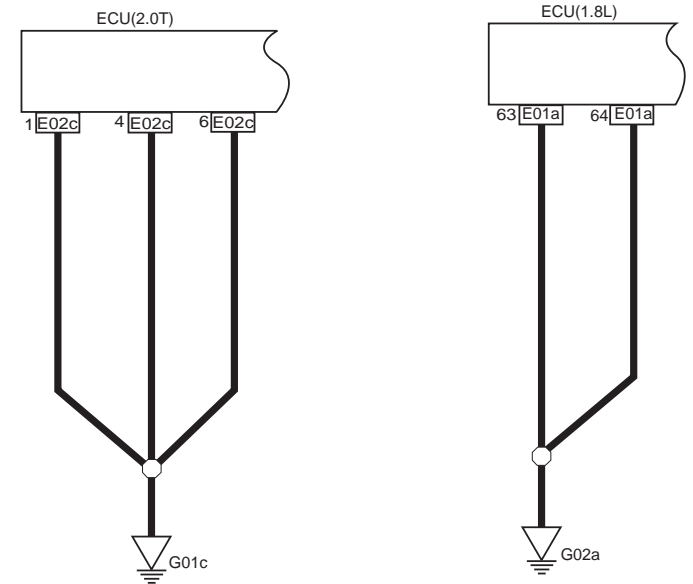


# Ground Distribution-G01a-G01b-G02a-G02c-G03

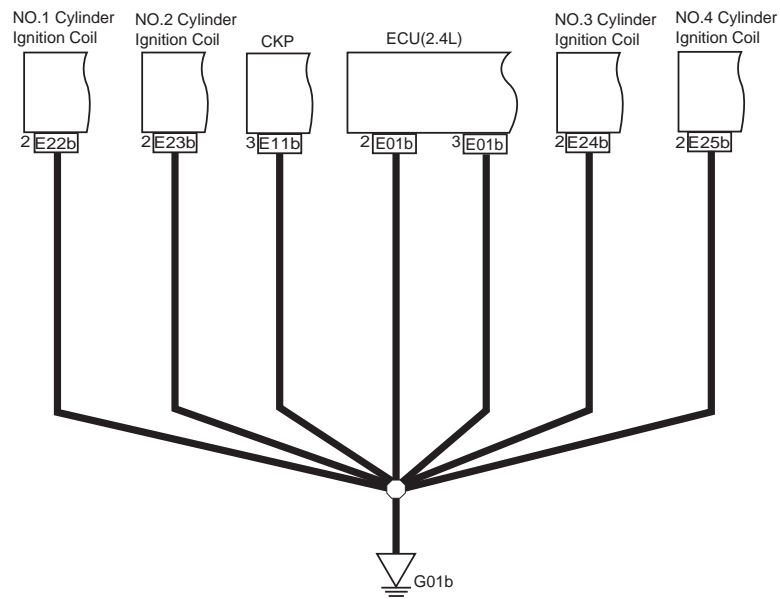
G01a



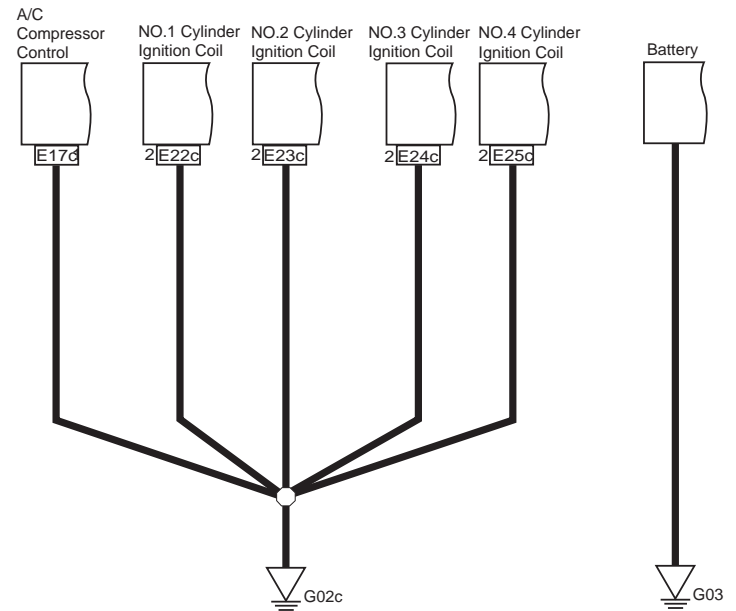
G01C/G02a



G01b

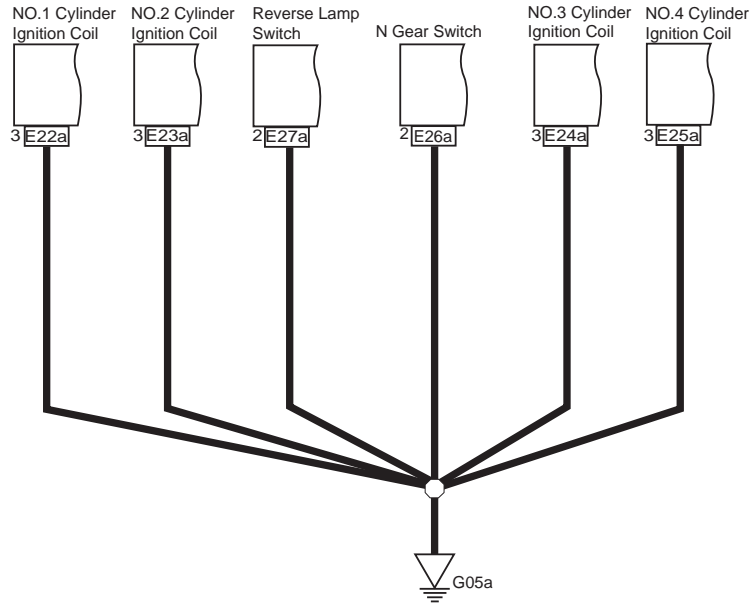


G02c/G03

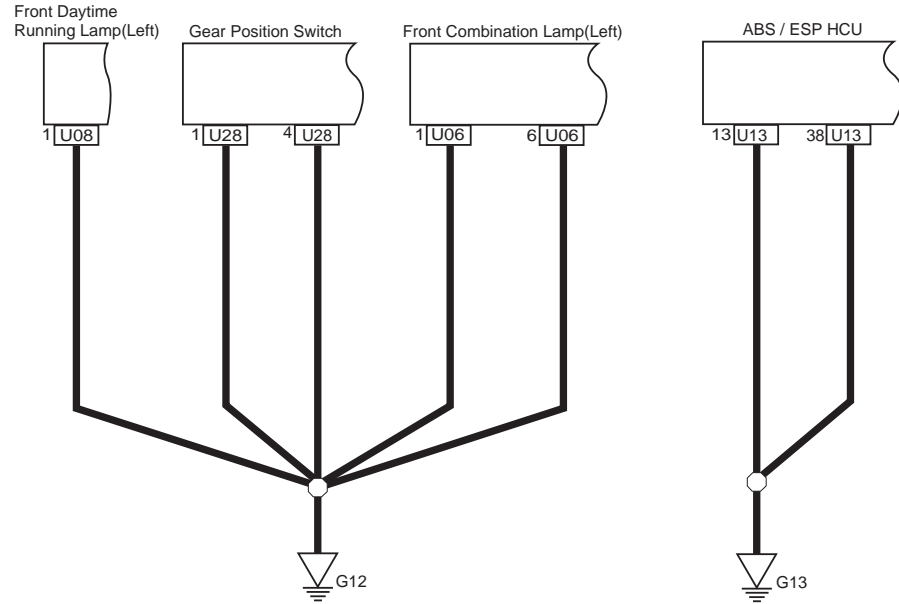


# Ground Distribution-G05a-G11-G12-G13-G14

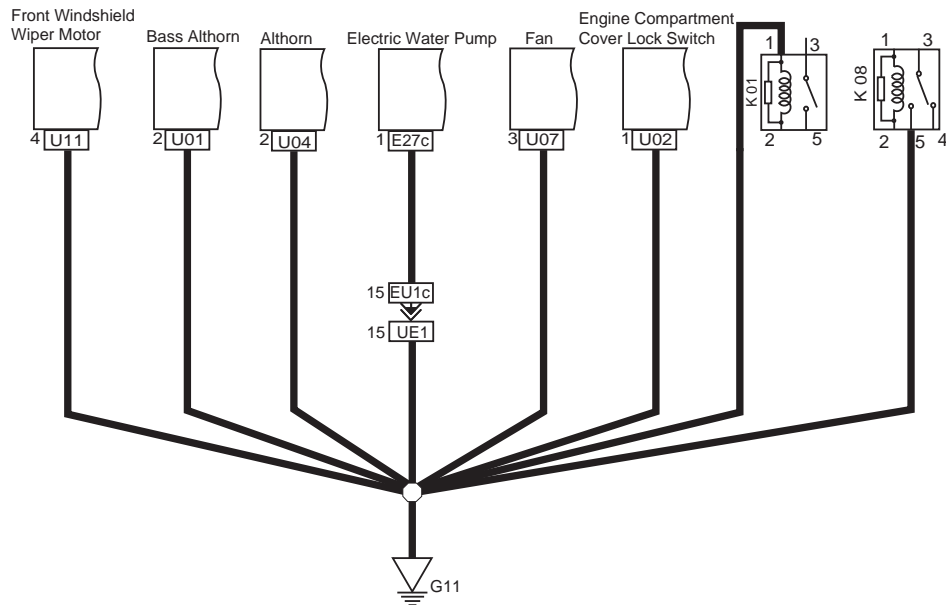
G05a



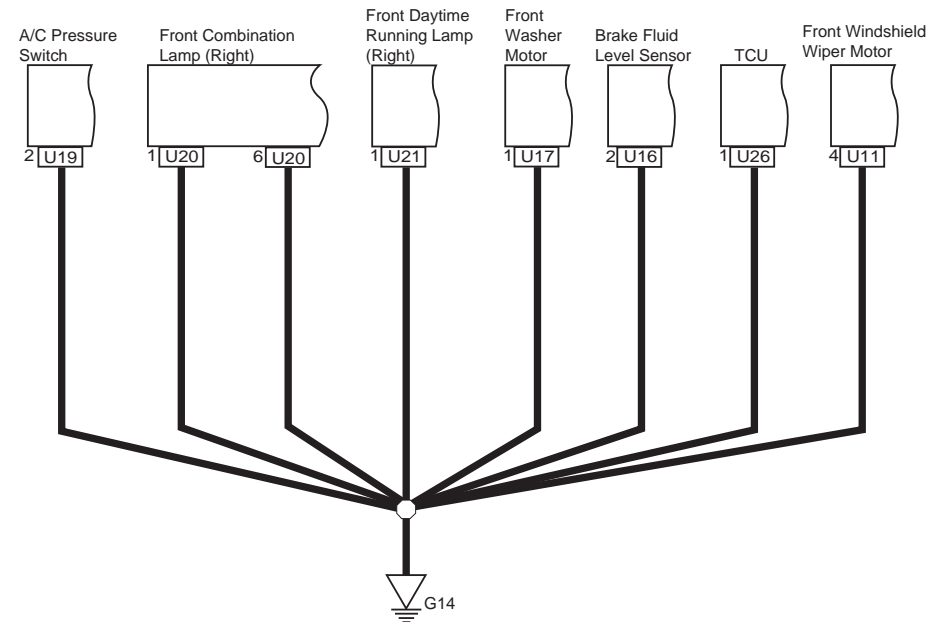
G12/G13



G11

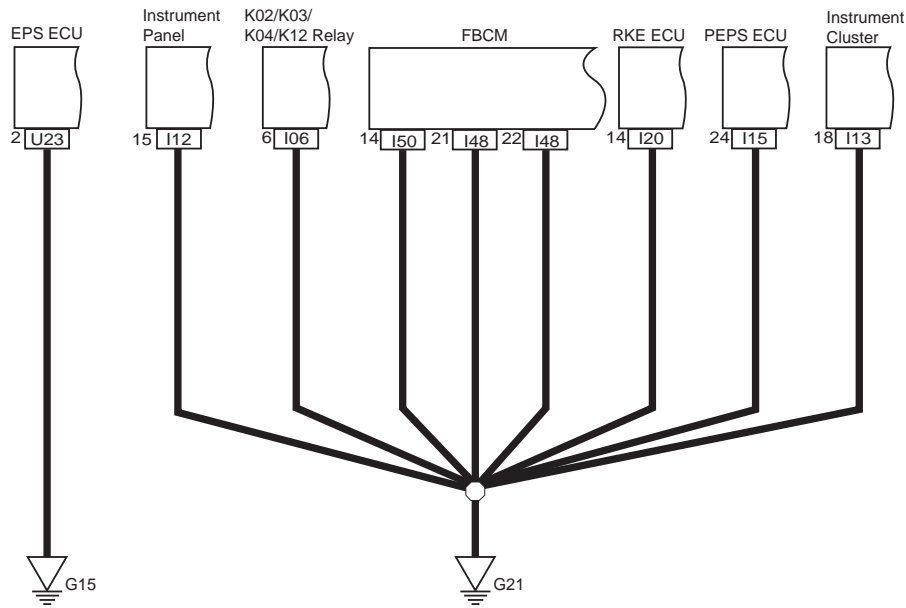


G14

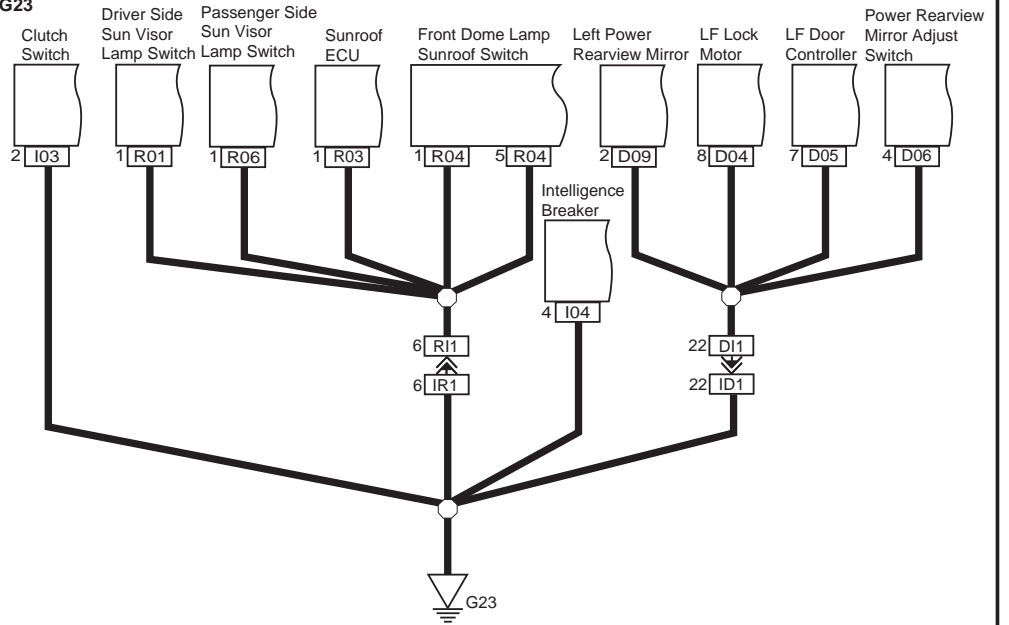


# Ground Distribution-G15-G21-G22-G23

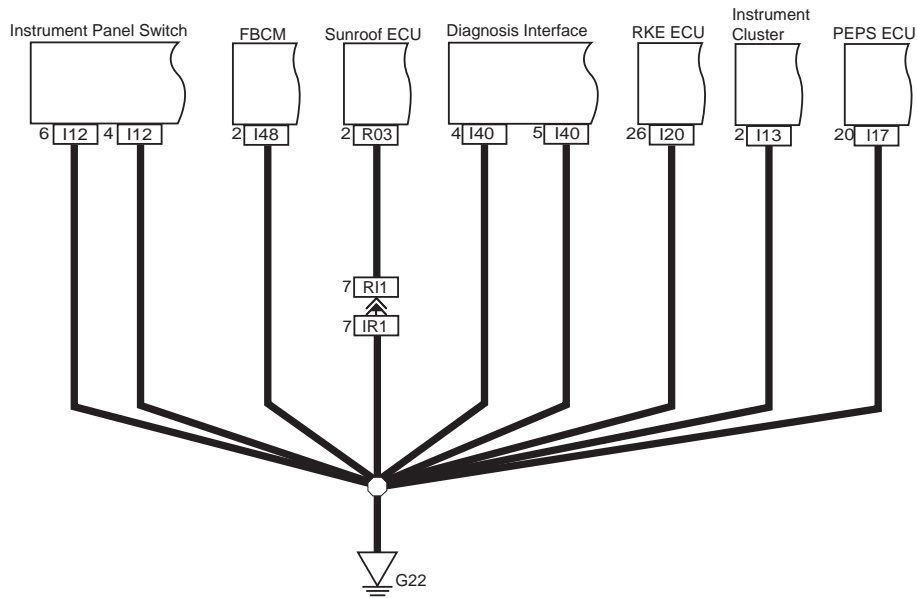
## G15/G21



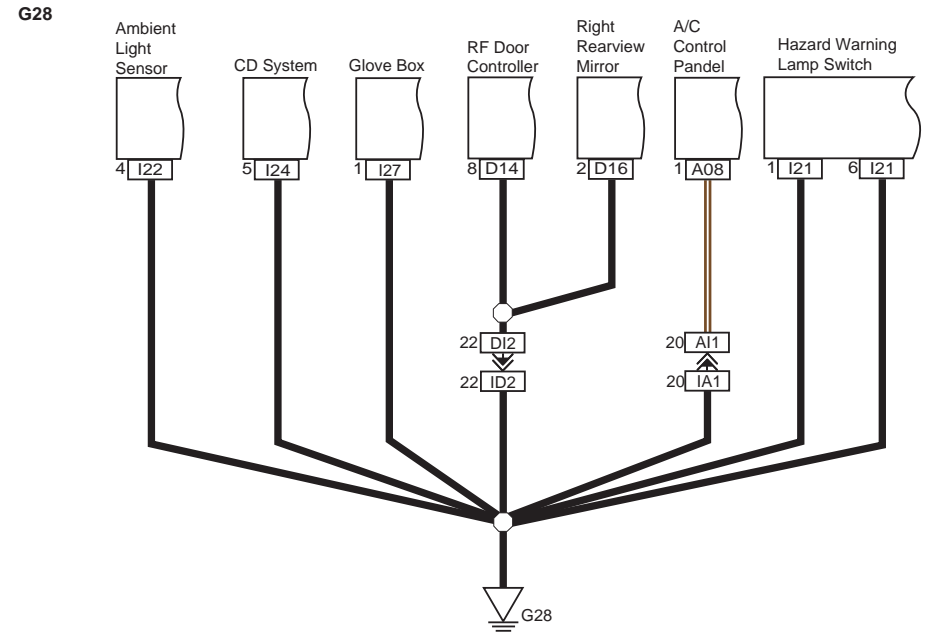
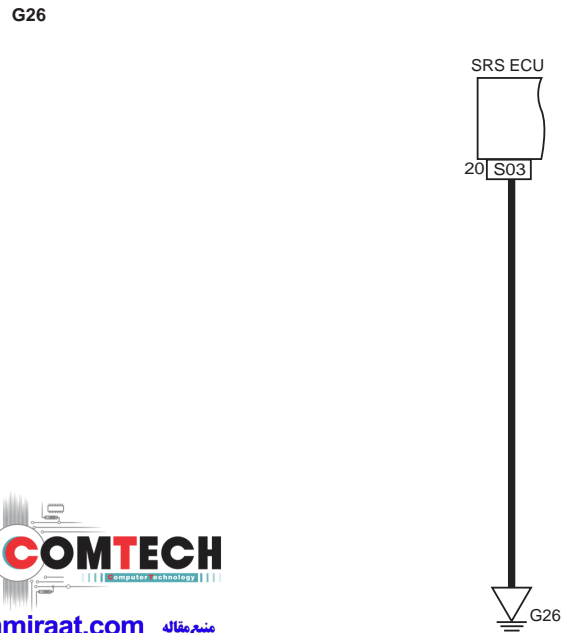
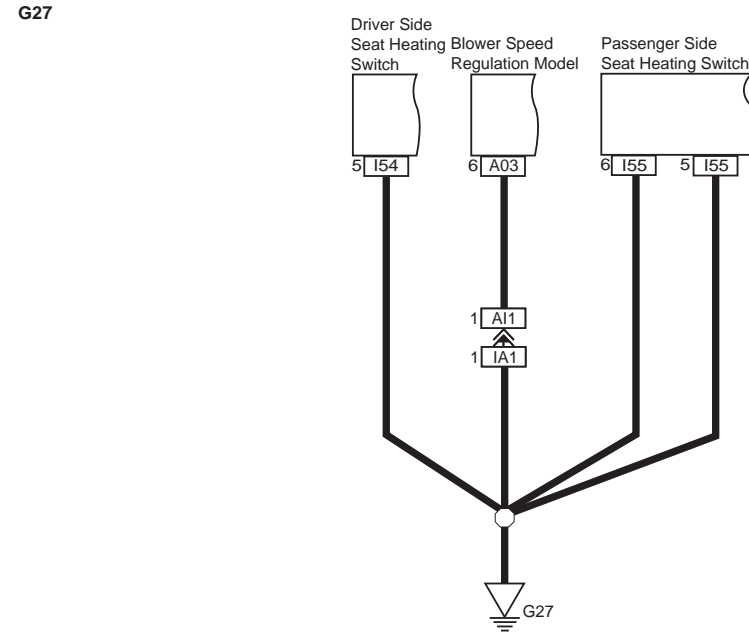
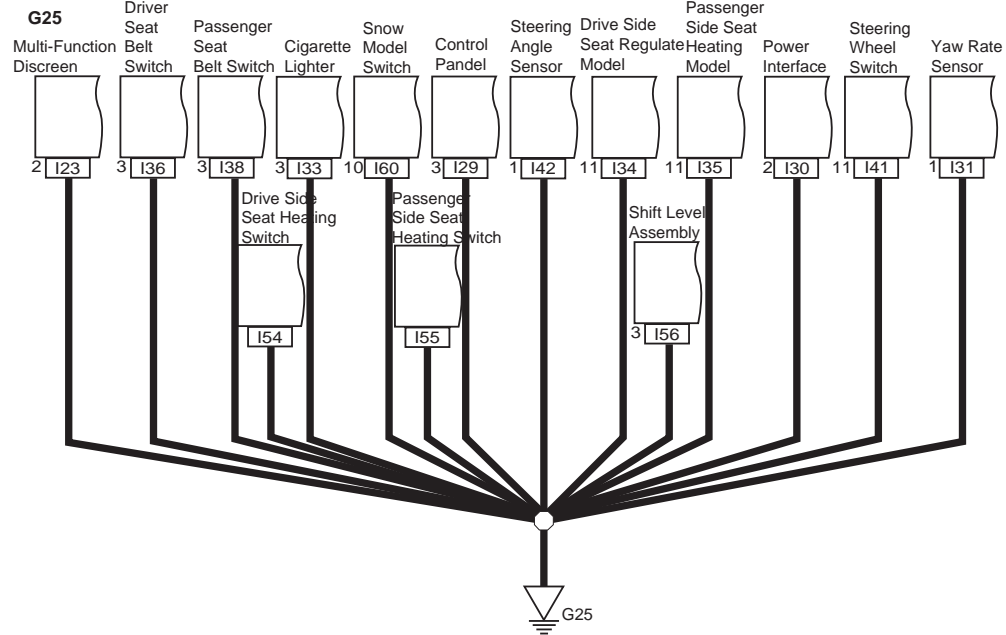
## G23



## G22



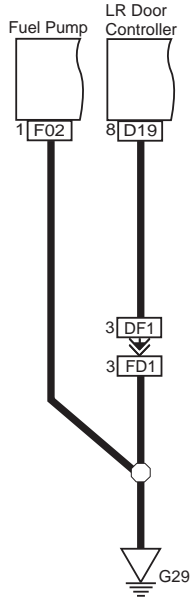
# Ground Distribution-G25-G26-G27-G28



# Ground Distribution-G29-G31-G33-G34-G35-G37-G39



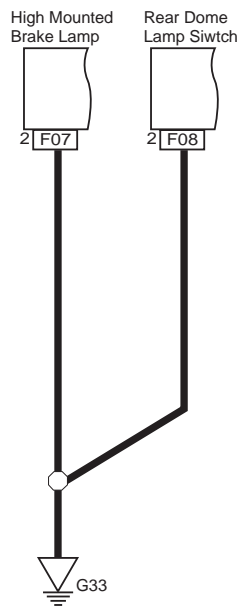
G29/G31



G35



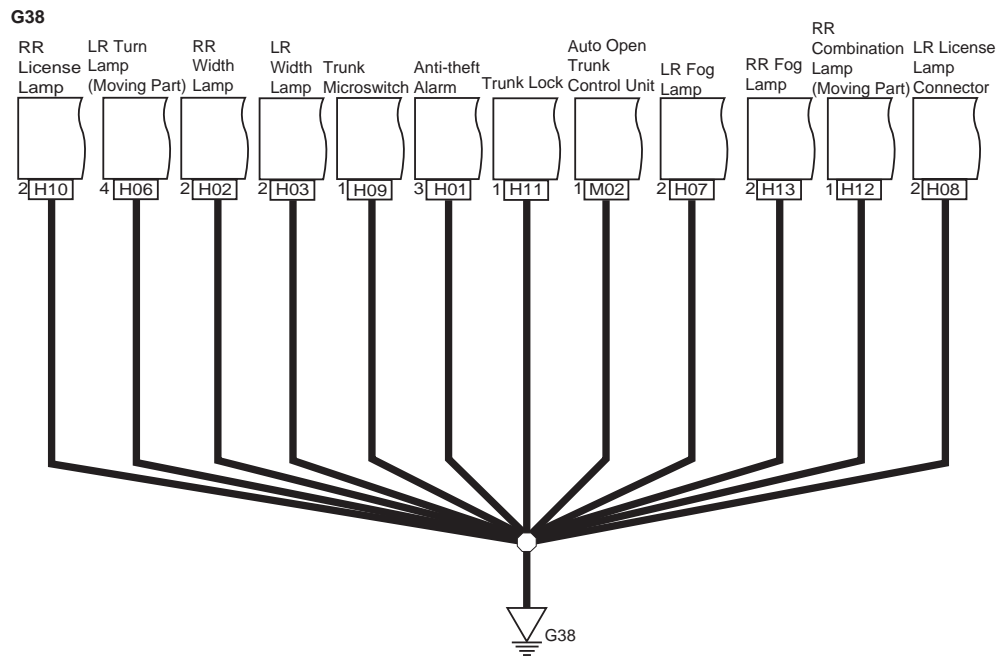
G33/G34



G37/G39

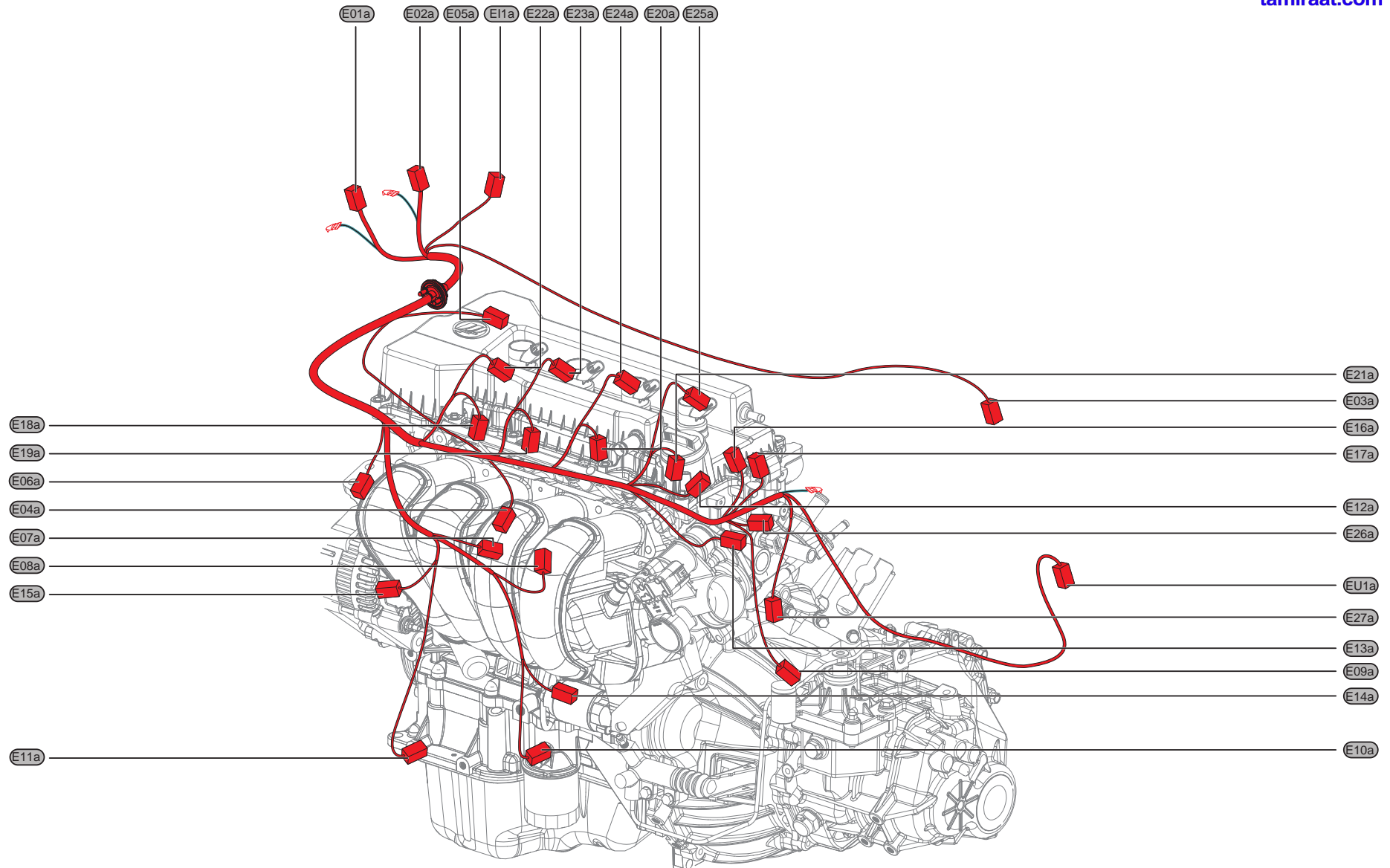


# Ground Distribution-G38

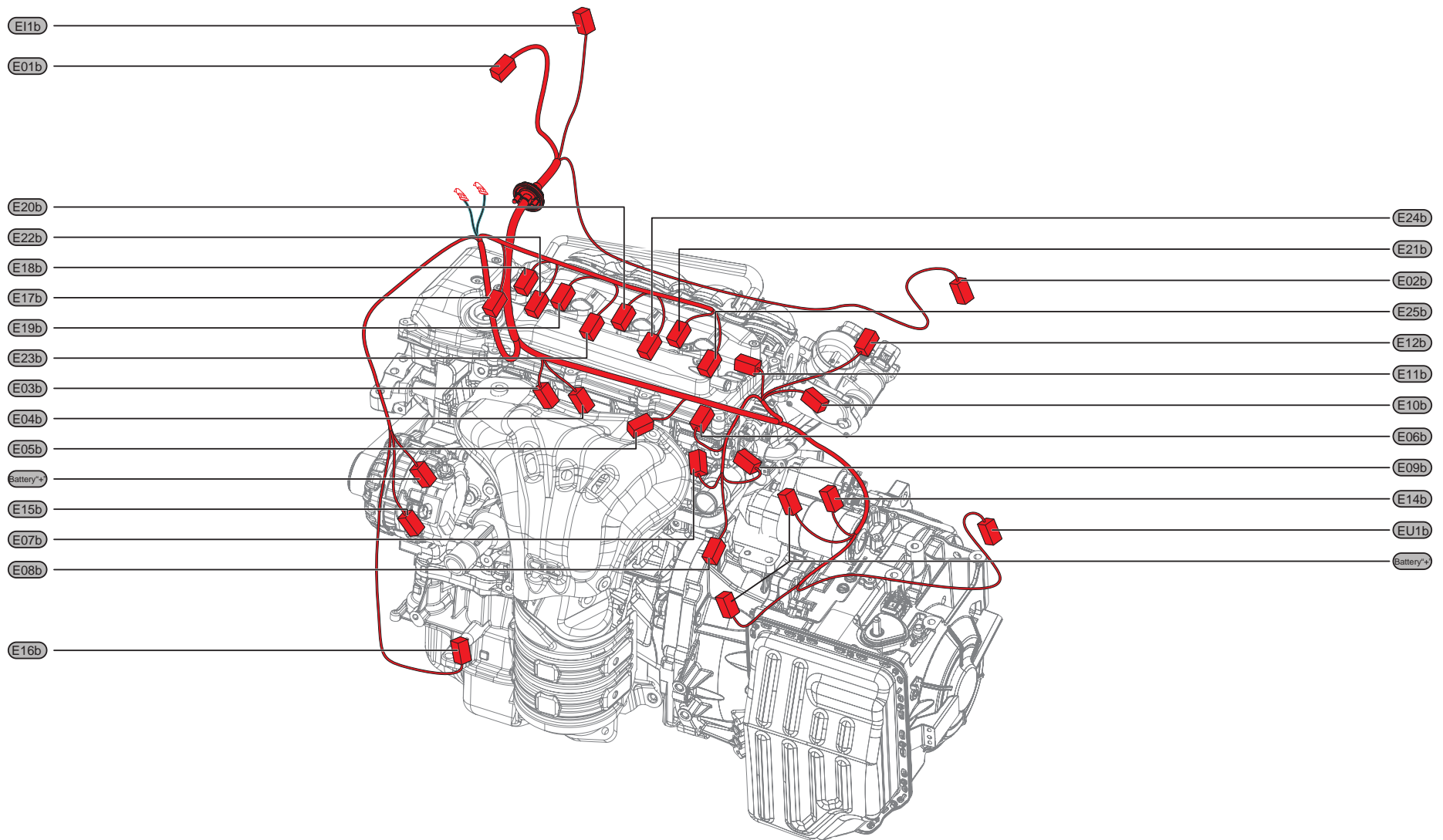




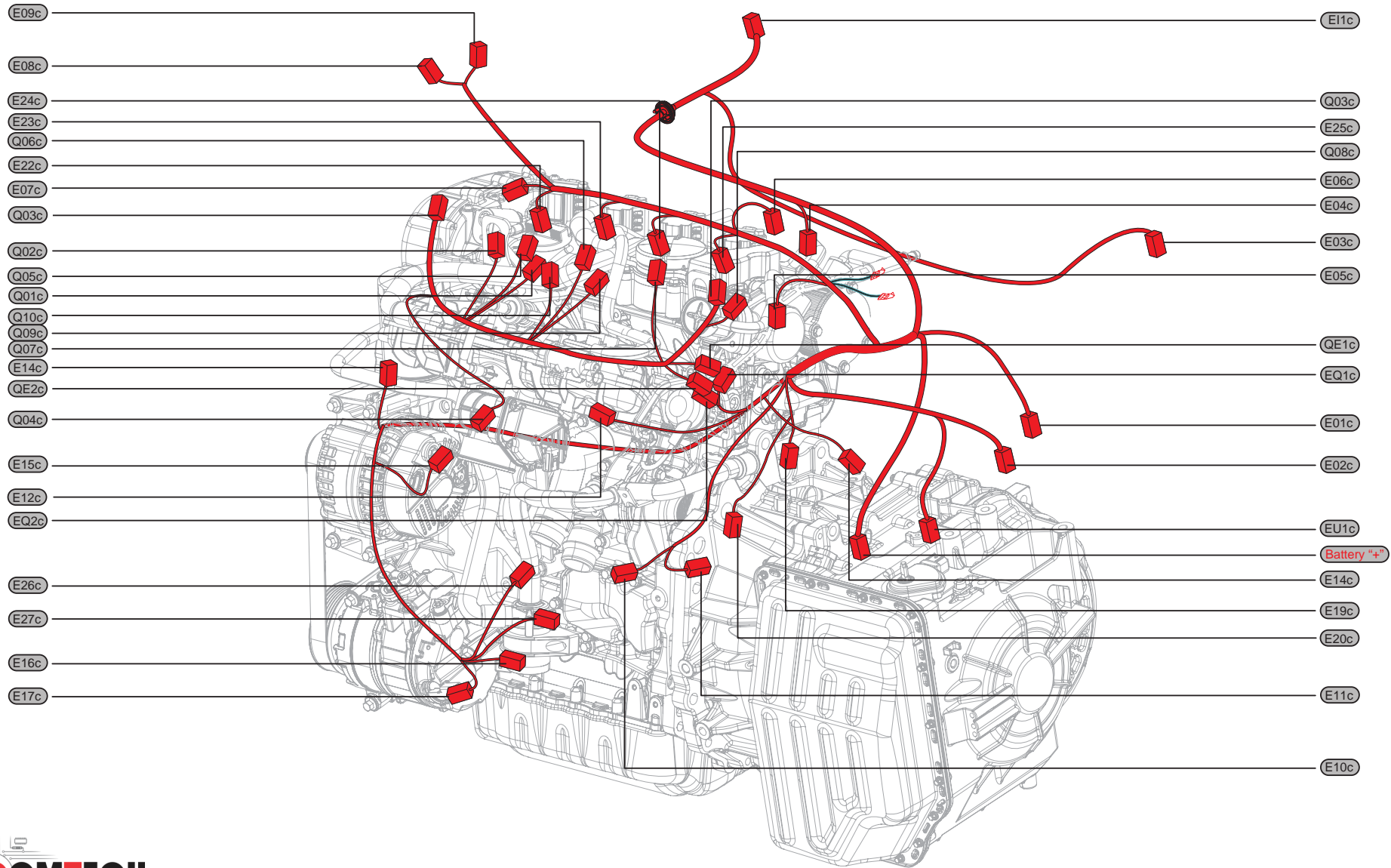
# Engine Harness Connector Location View-1.8VVT



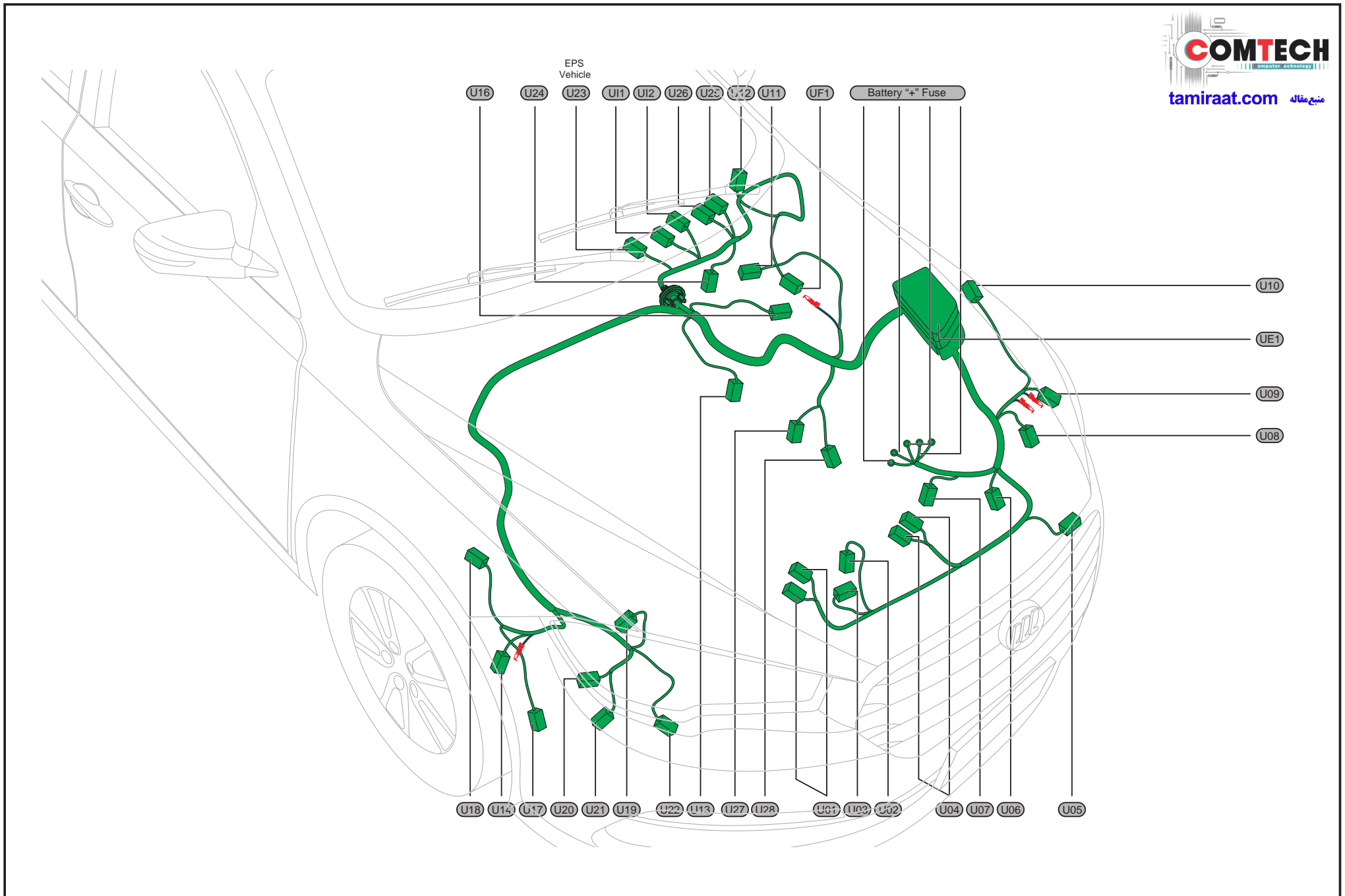
# Engine Harness Connector Location View-2.4VVT



# Engine Harness Connector Location View-2.0T

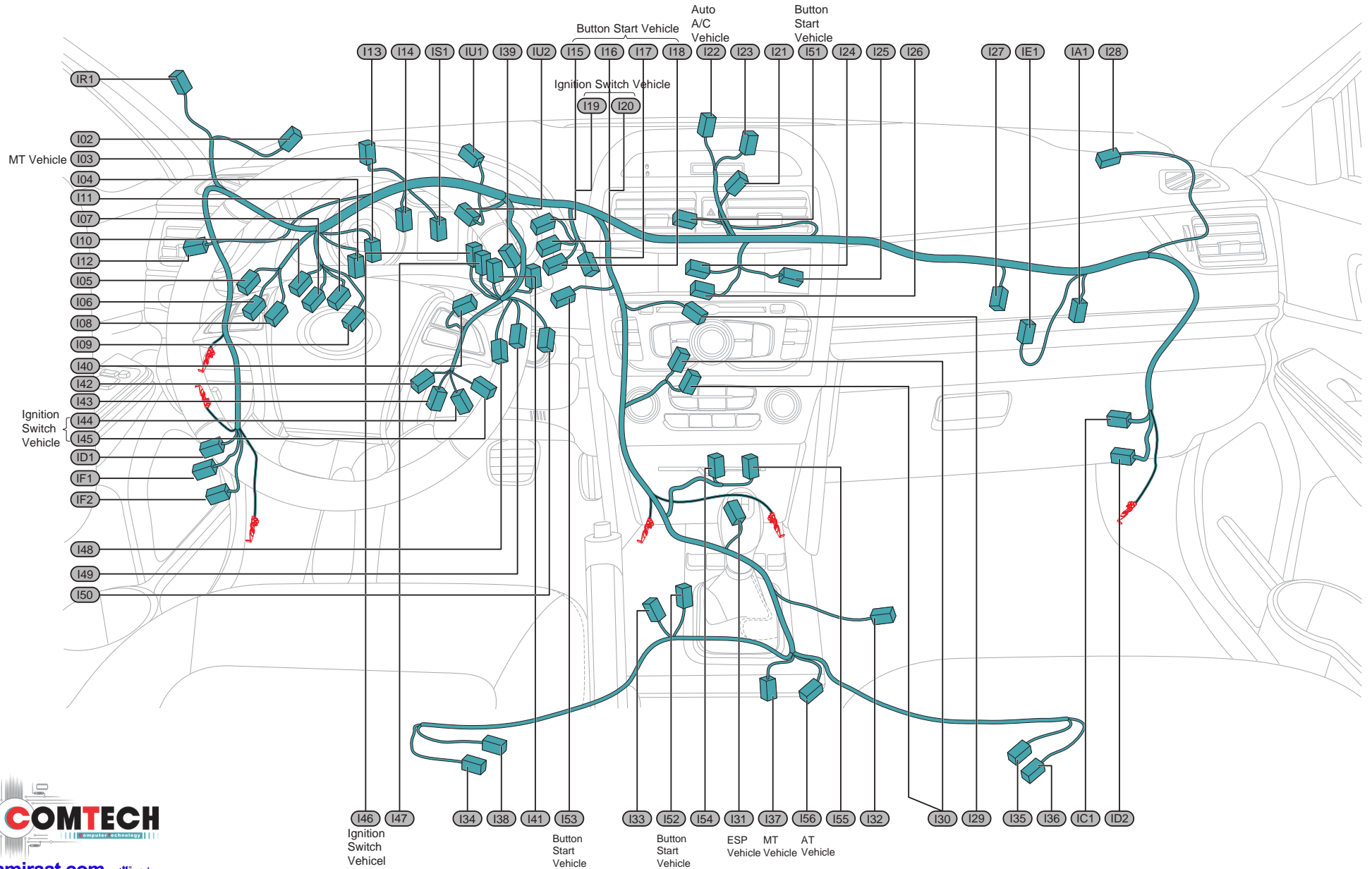


# Engine Compartment Harness Connector Location View

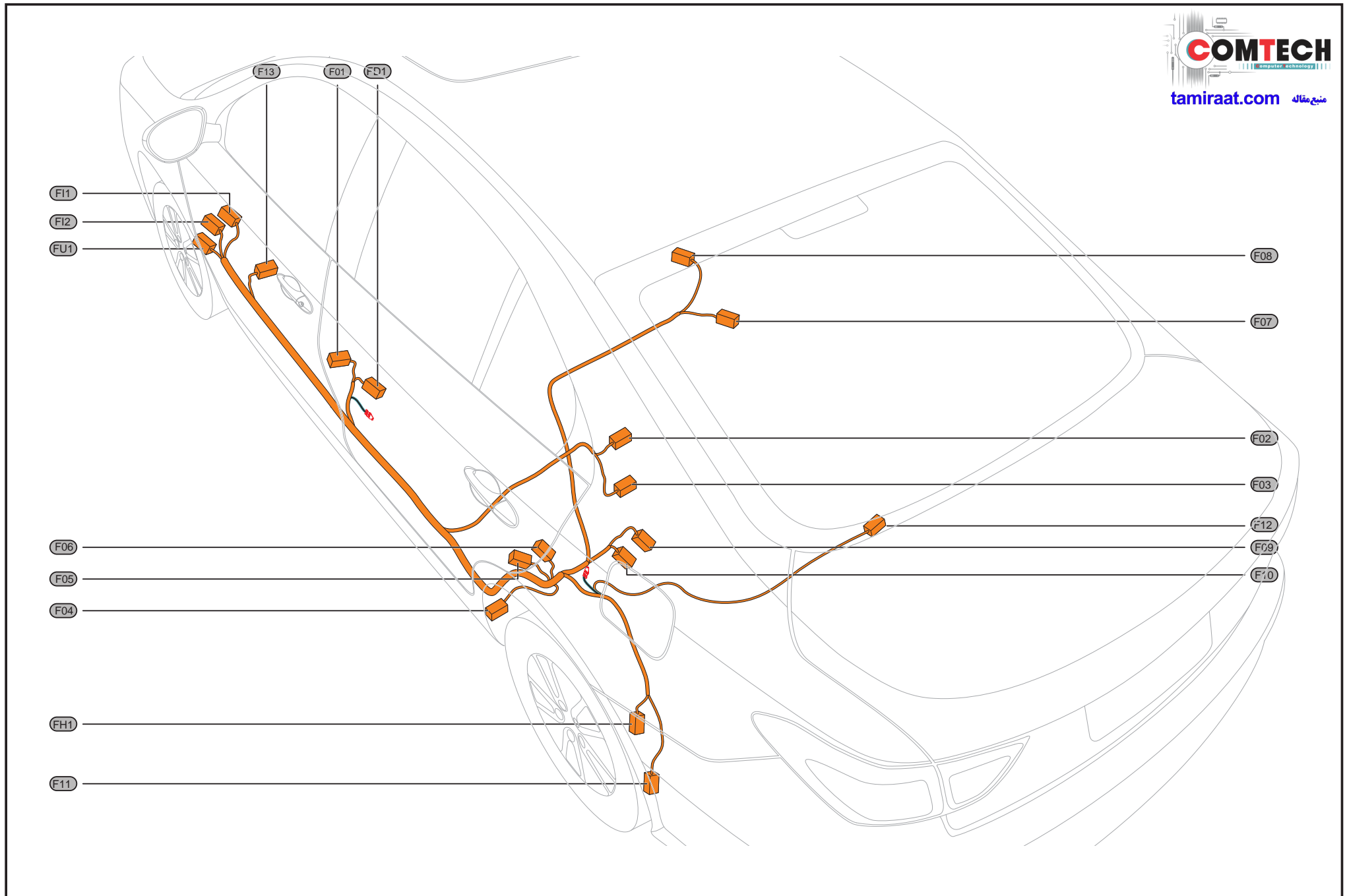


# IP Harness Connector Location View

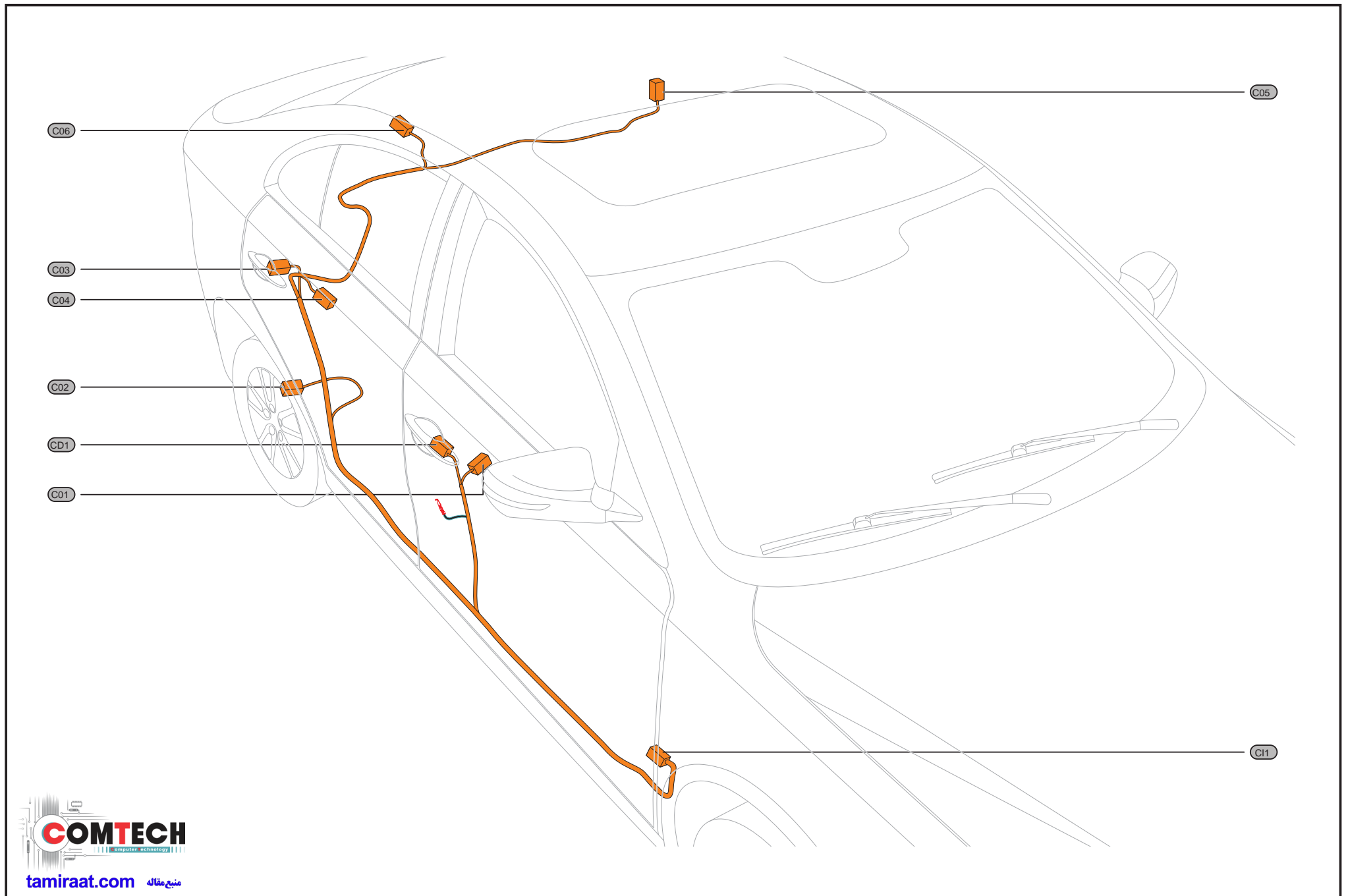
IP Harness Connector Location View



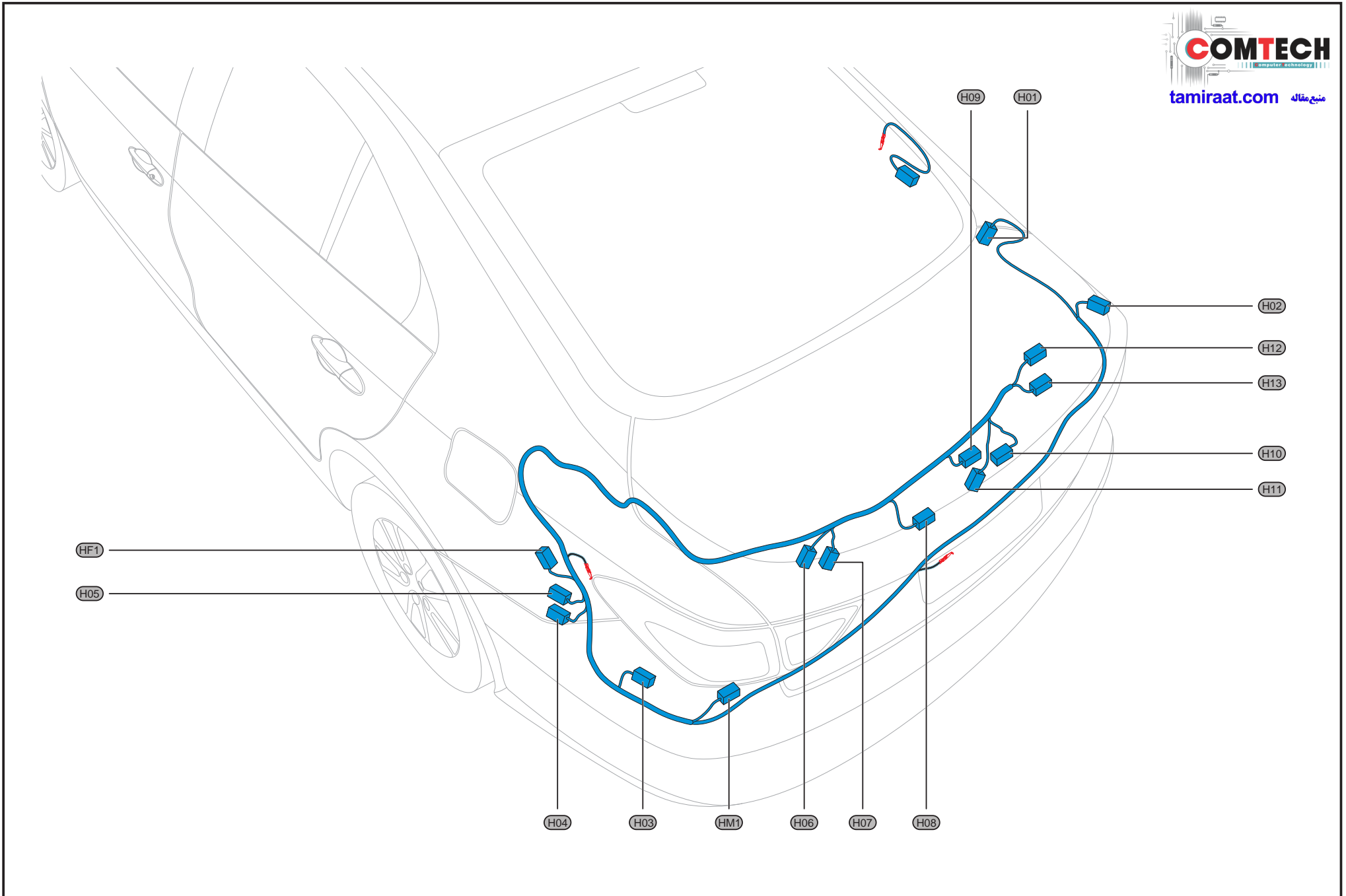
# Left Body Harness Connector Location View



# Right Body Harness Connector Location View



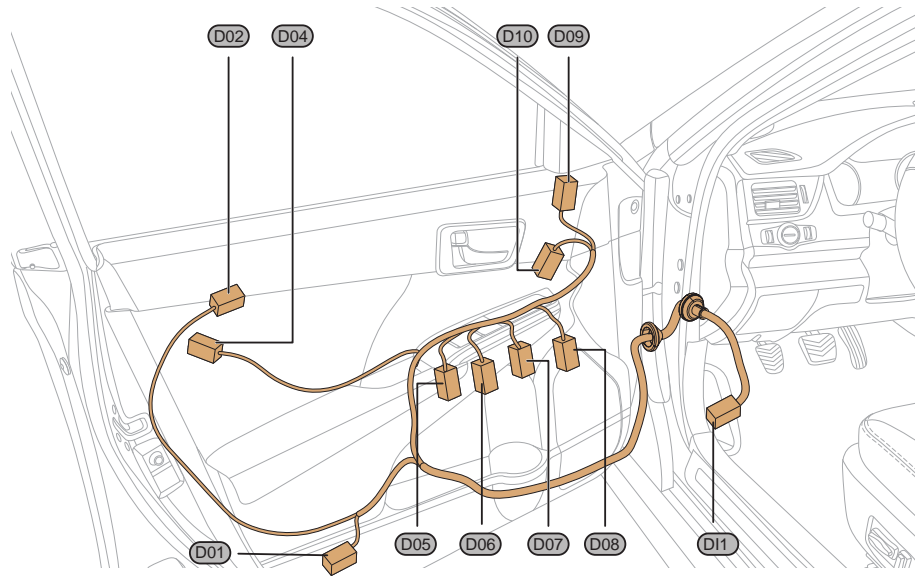
# Rear Body Harness Connector Location View



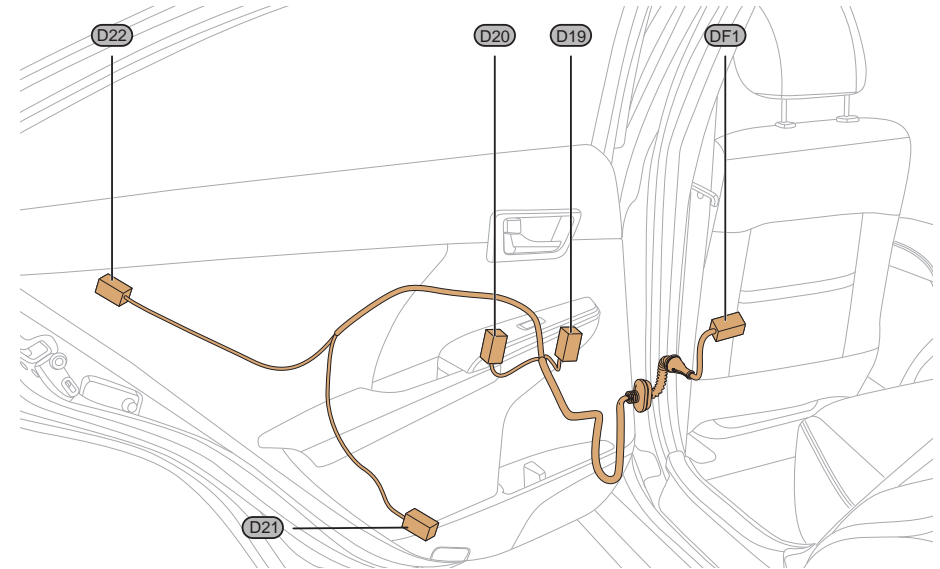


# Door Harness Connector Location View

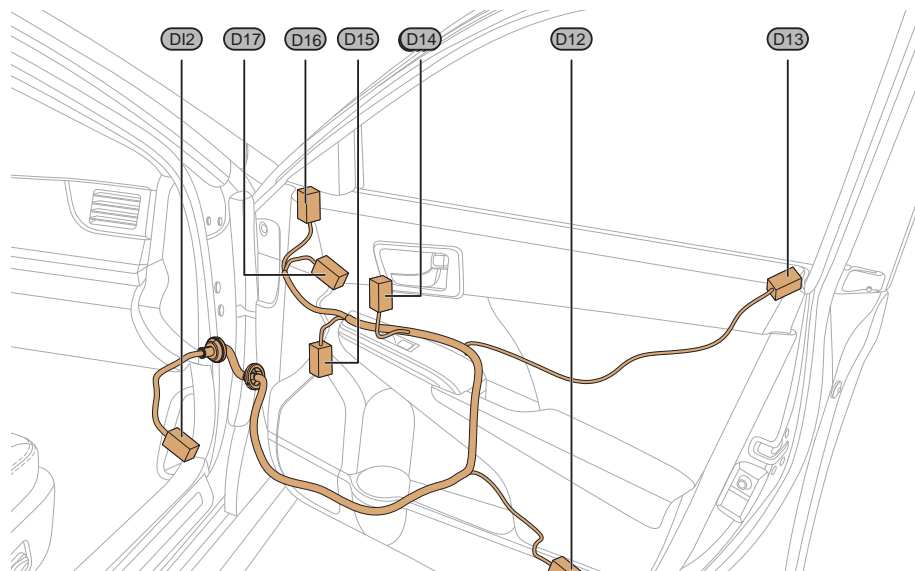
Left front door Hareness



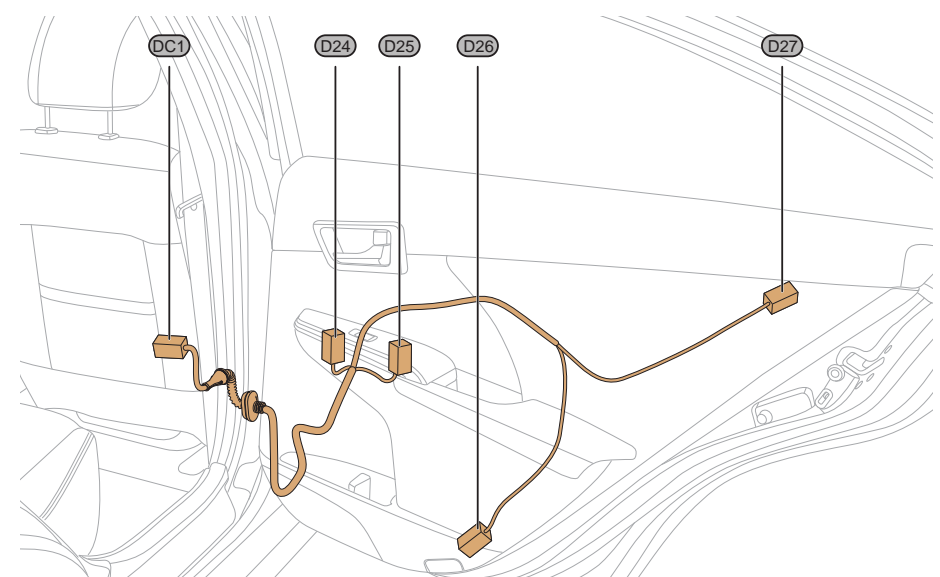
Left rear door Hareness



Right front door Hareness



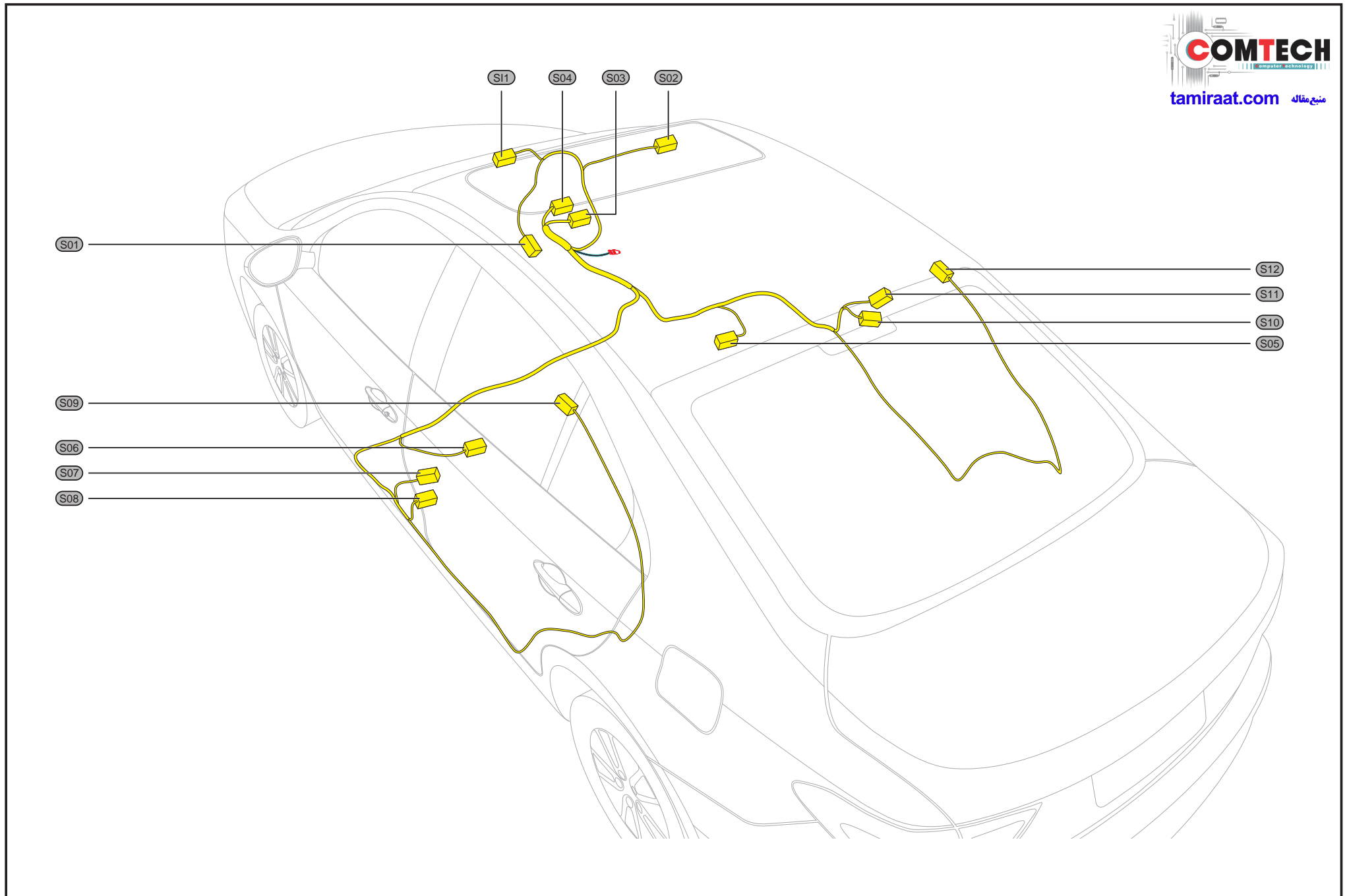
Right rear door Hareness



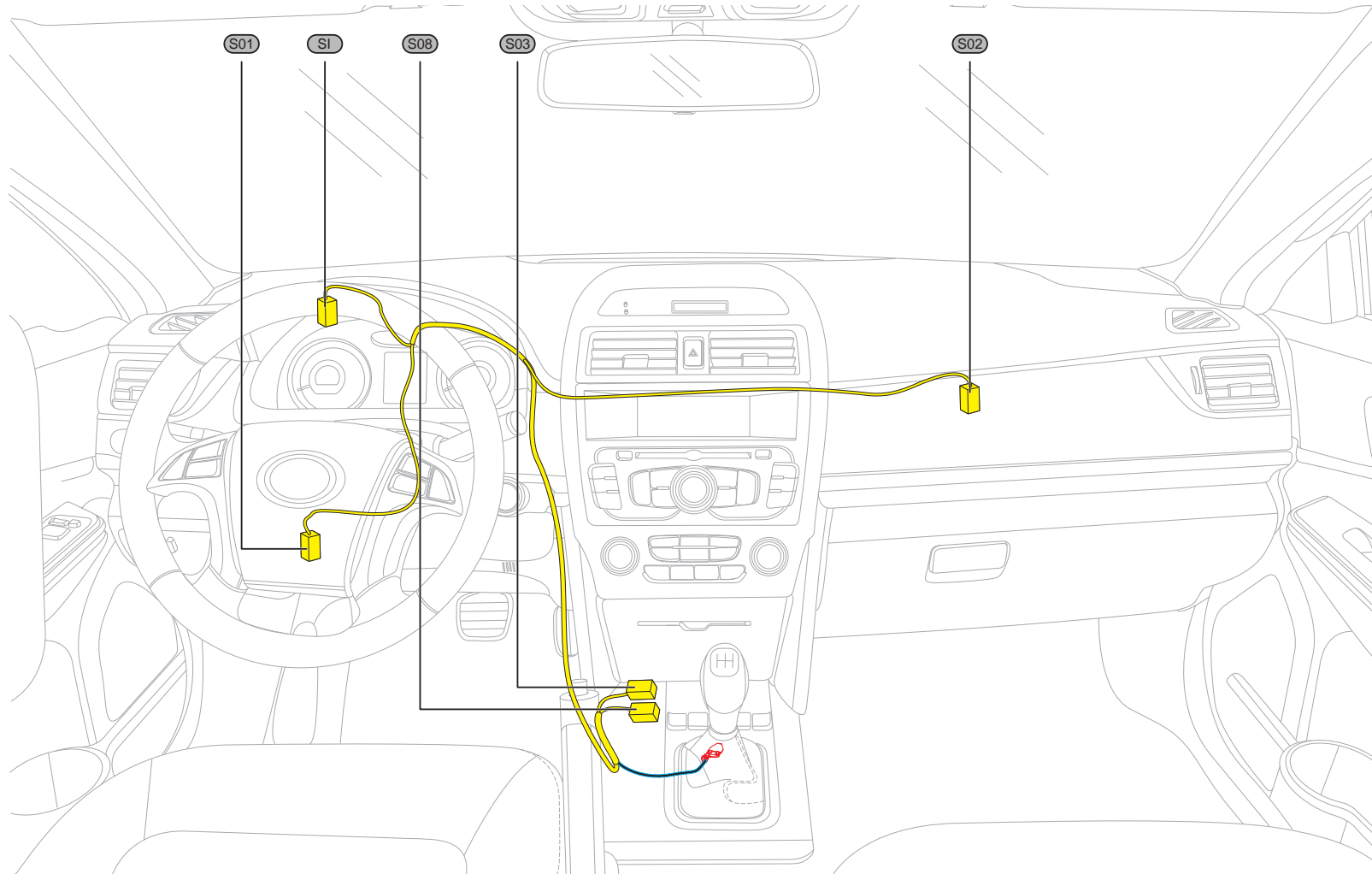
# Sunroof Harness Connector Location View



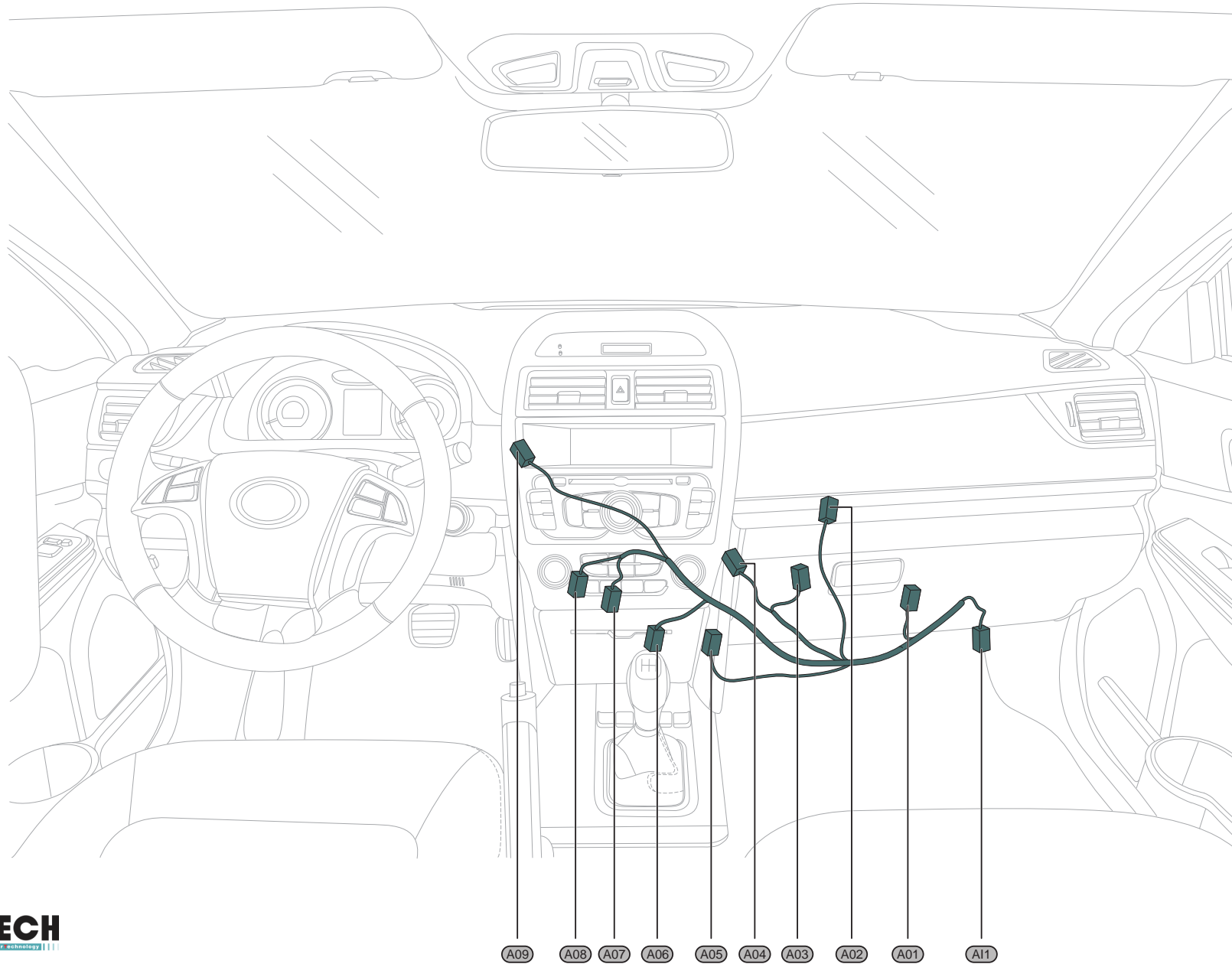
# Air Bag (8 Return Circuit) Harness Connector Location View



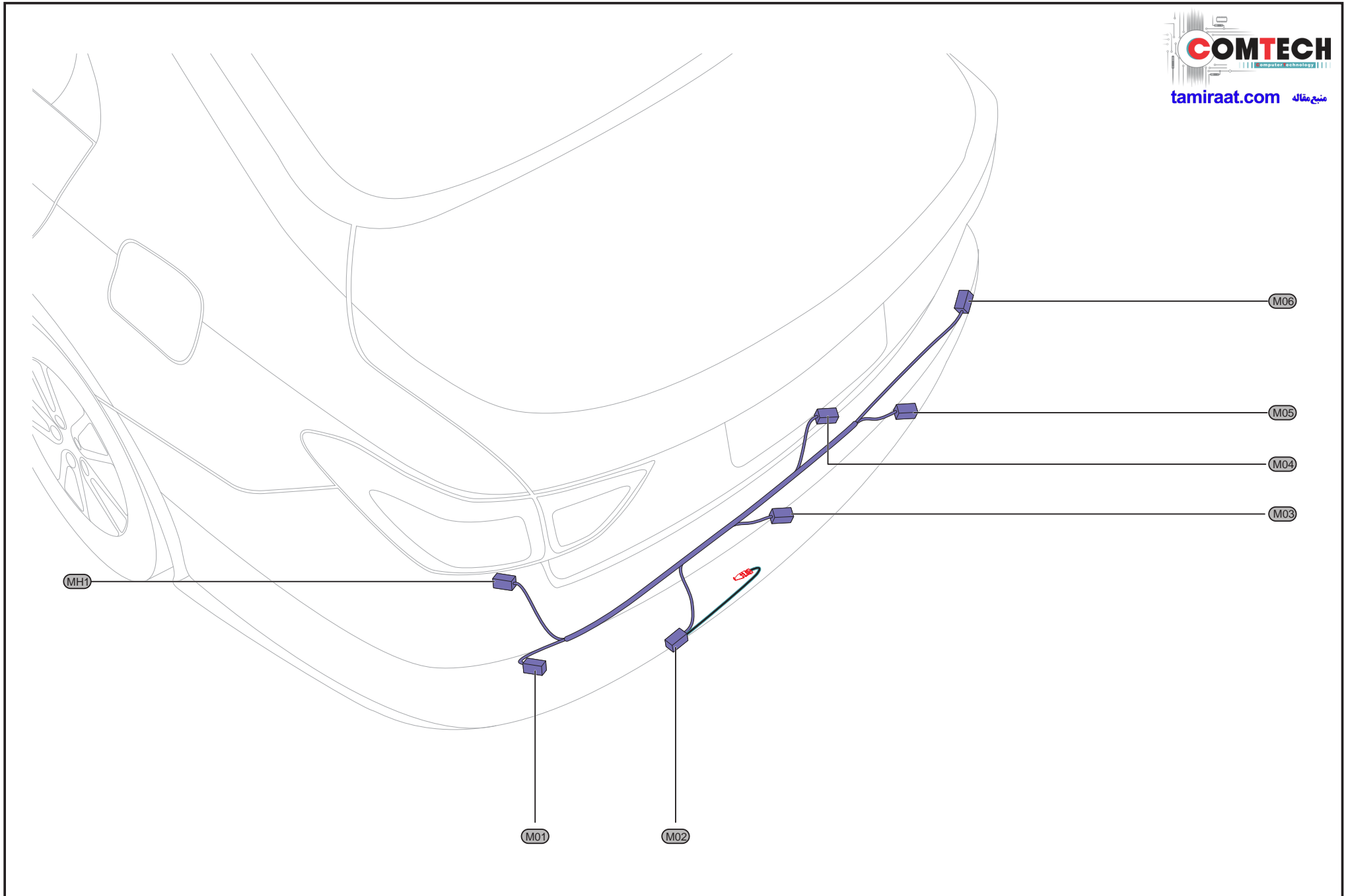
# Air Bag (2 Return Circuit) Harness Connector Location View



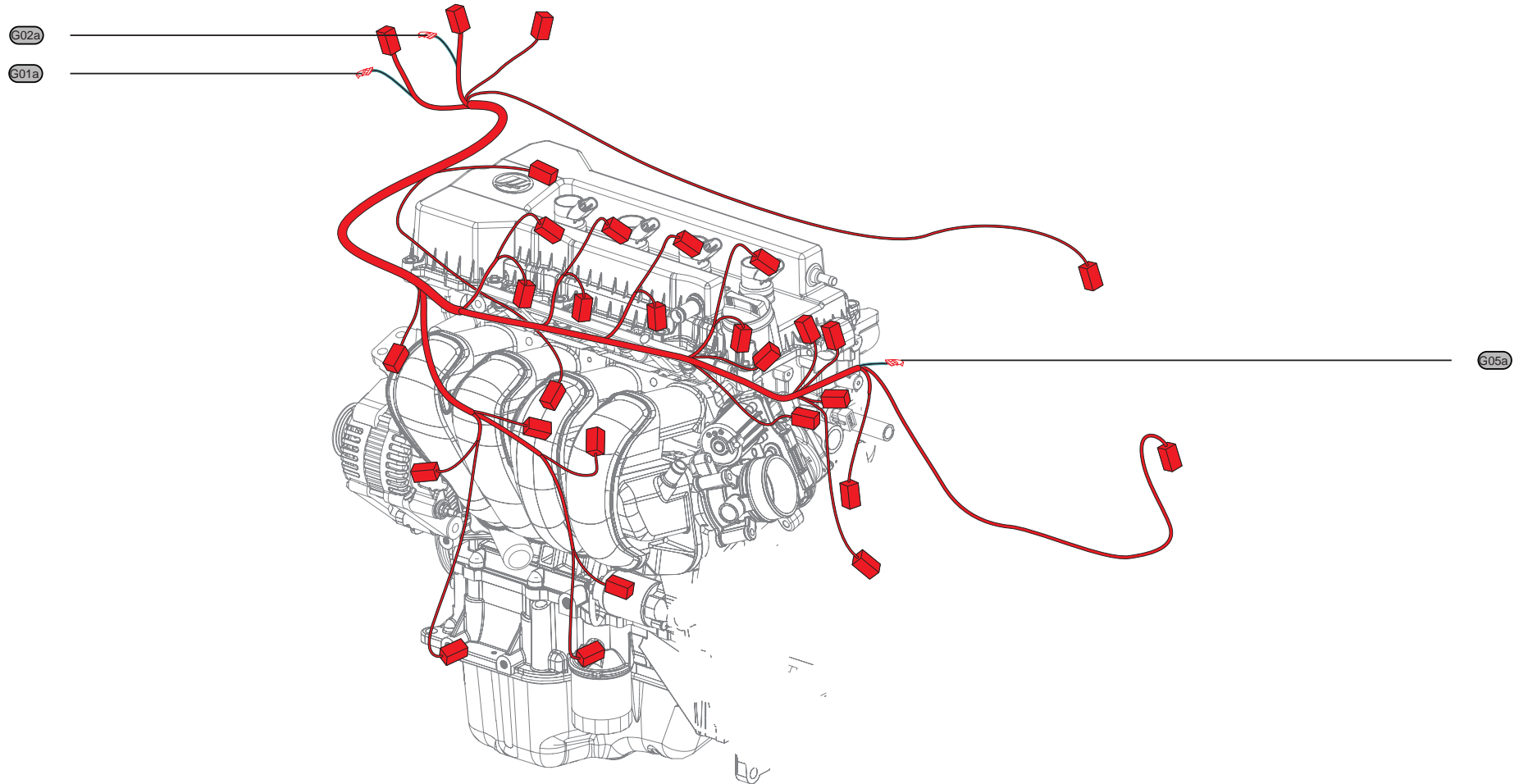
# AC Harness Connector Location View



# Rear Bumper Harness Connector Location View

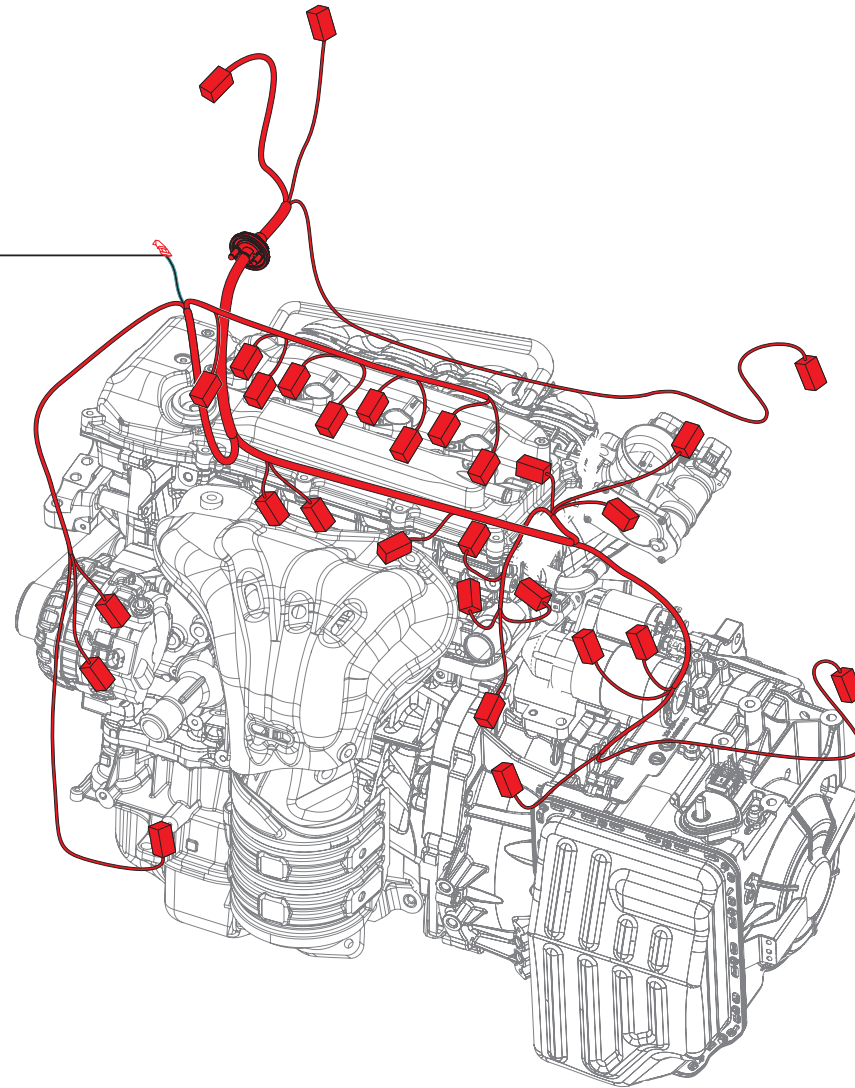


# Ground Point Location View-G01a-G02a-G05a



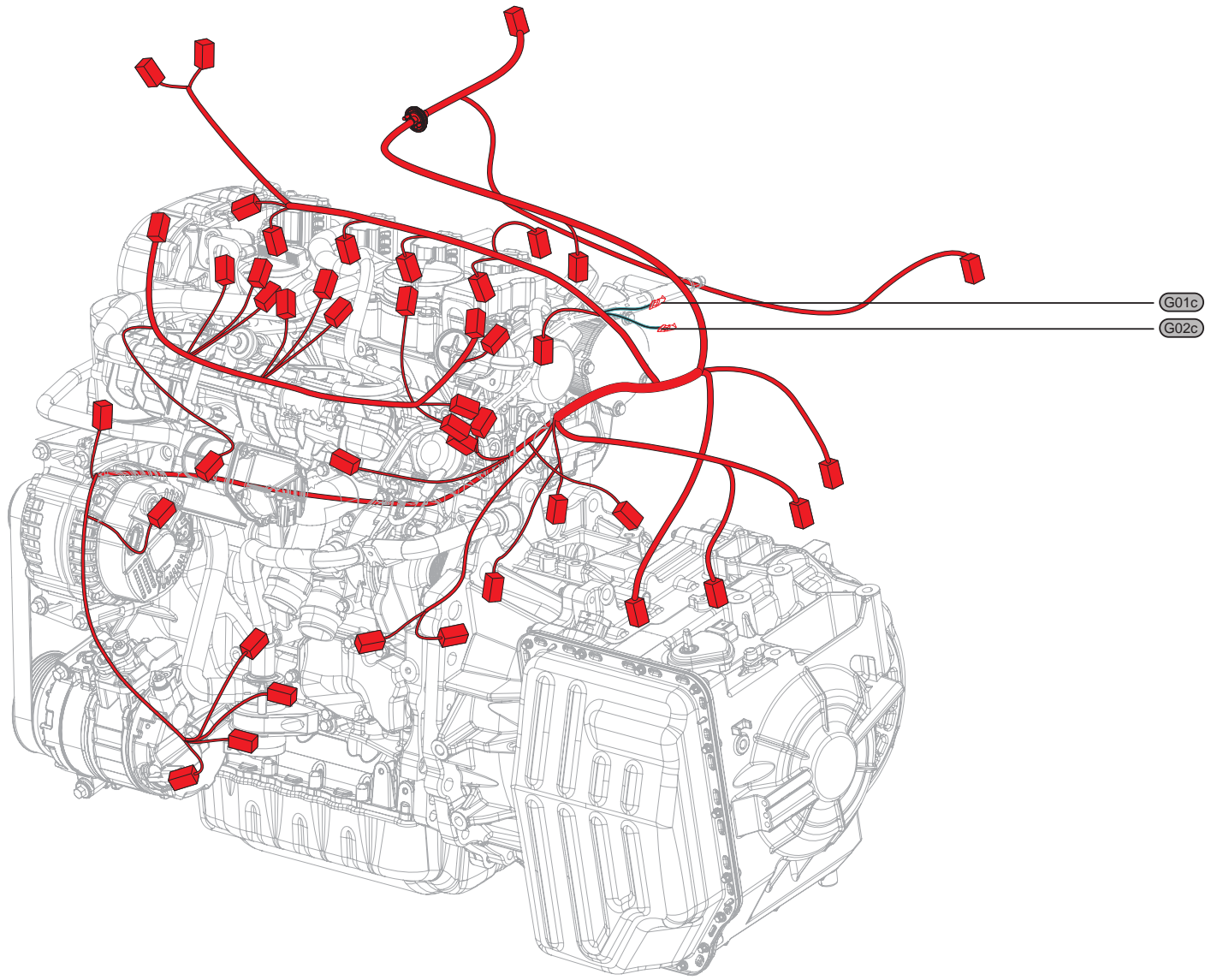
# Ground Point Location View-G01b

G01b

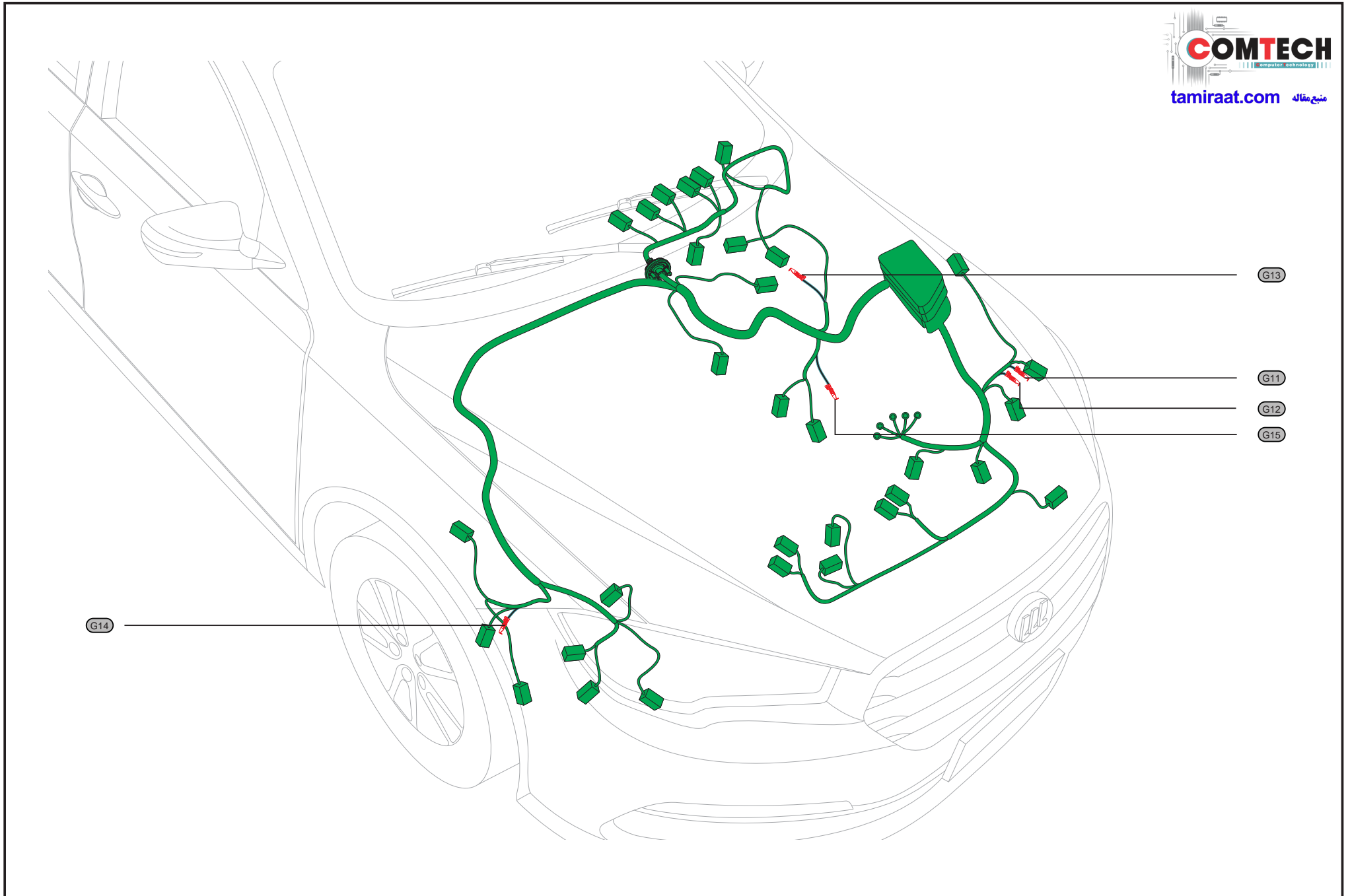




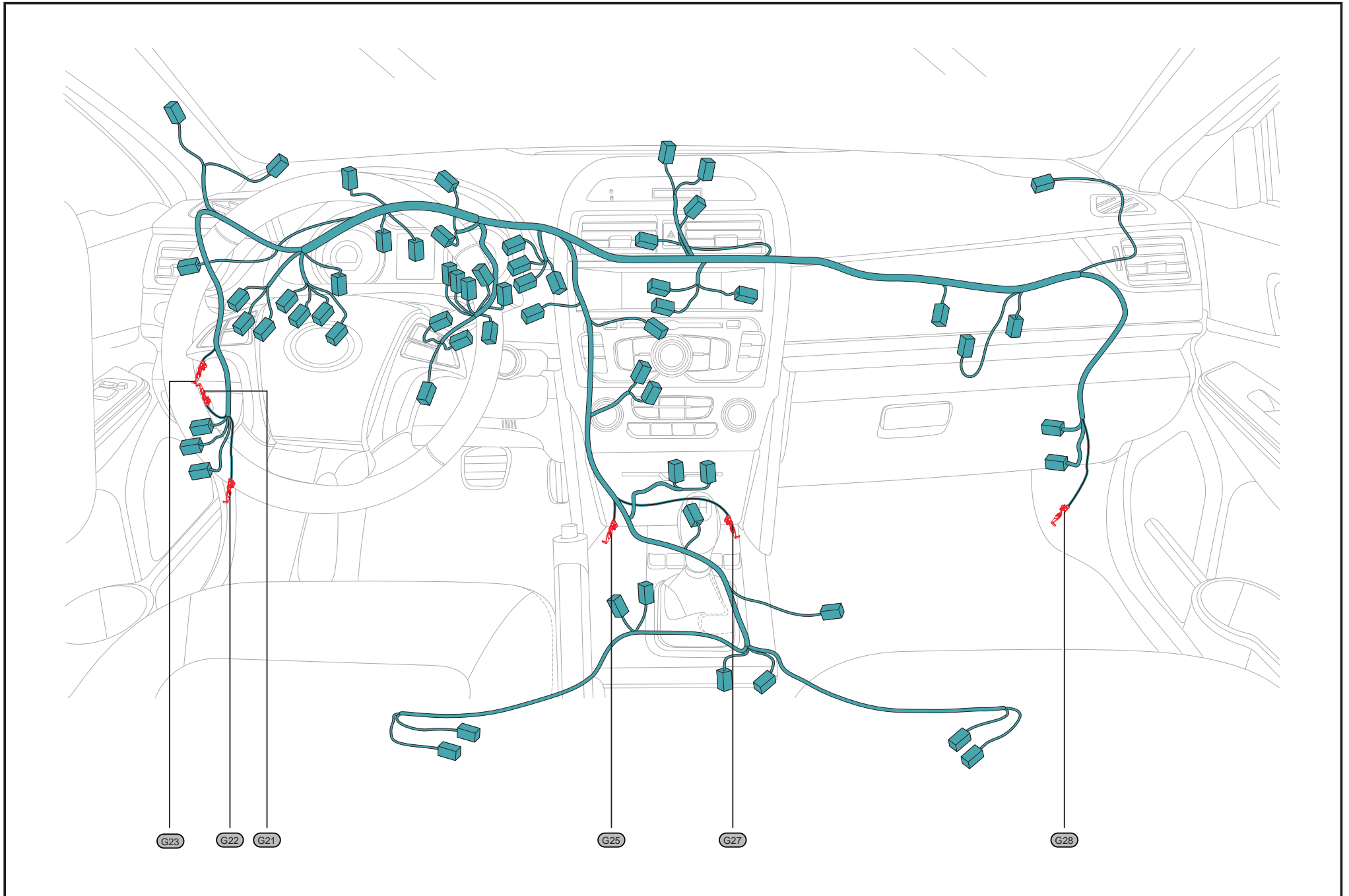
# Ground Point Location View-G01c-G02c



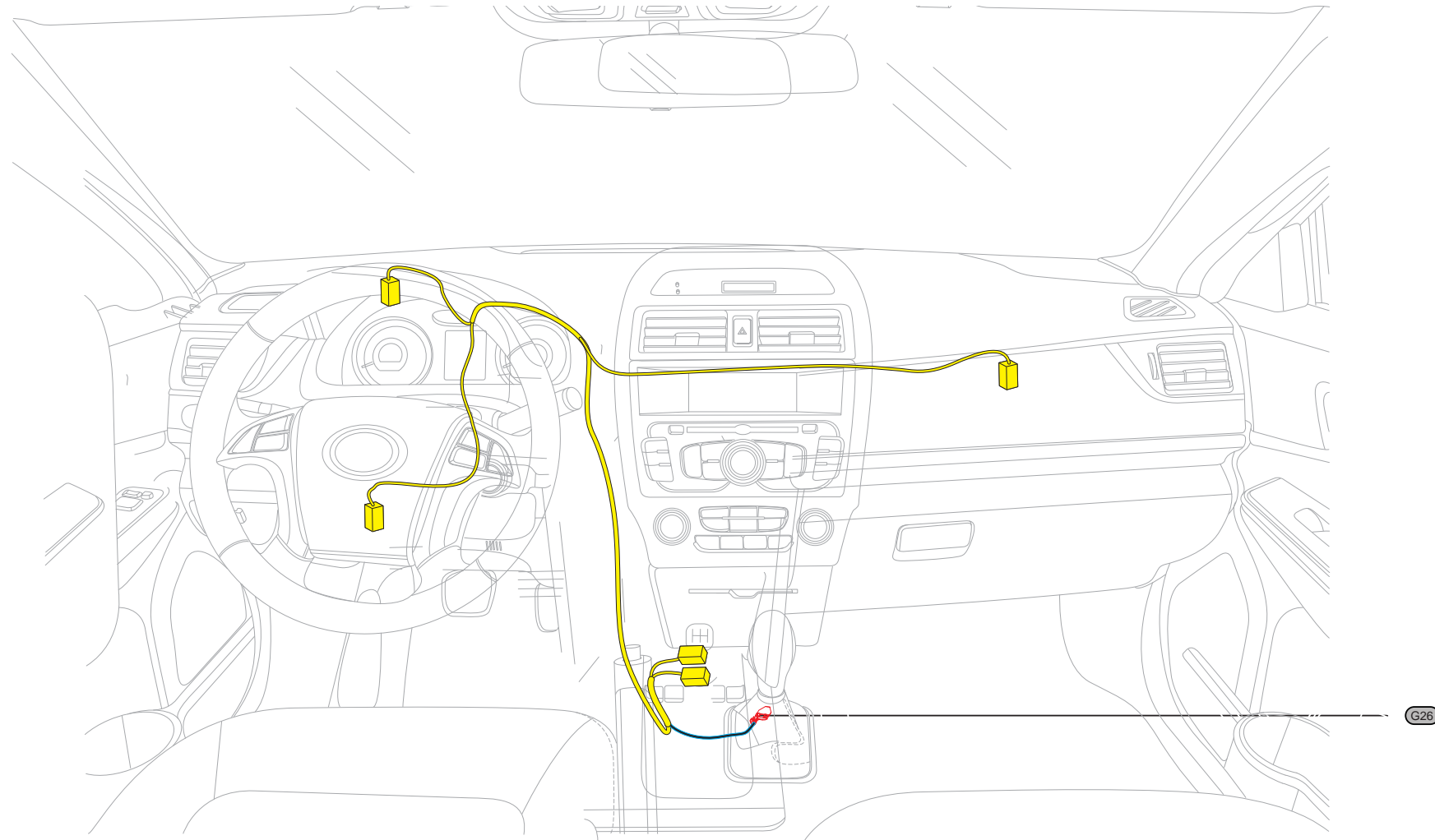
# Ground Point Location View-G11-G12-G13-G14-G15



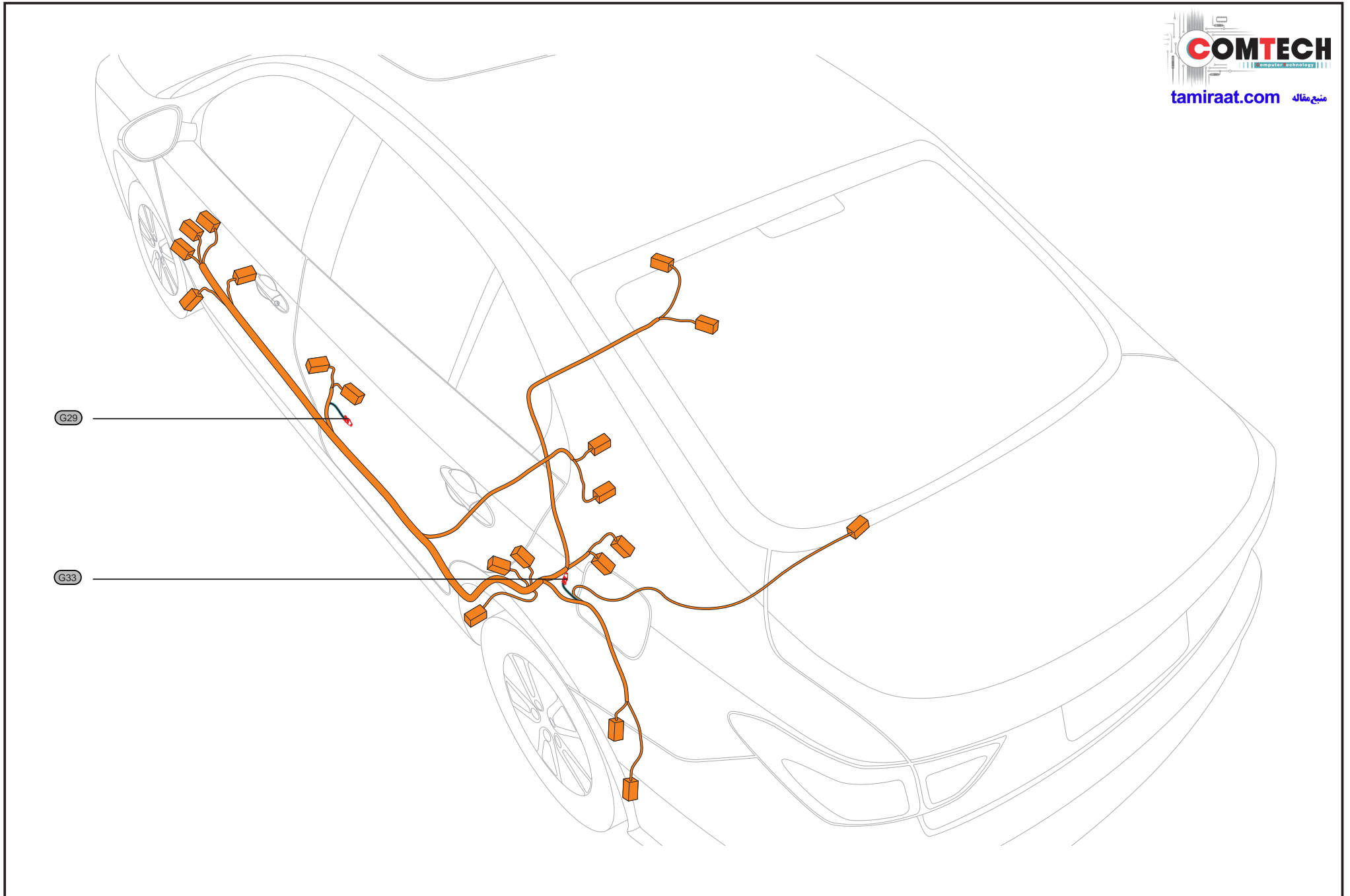
# Ground Point Location View-G21-G22-G23-G25-G27-G28



# Ground Point Location View-G26



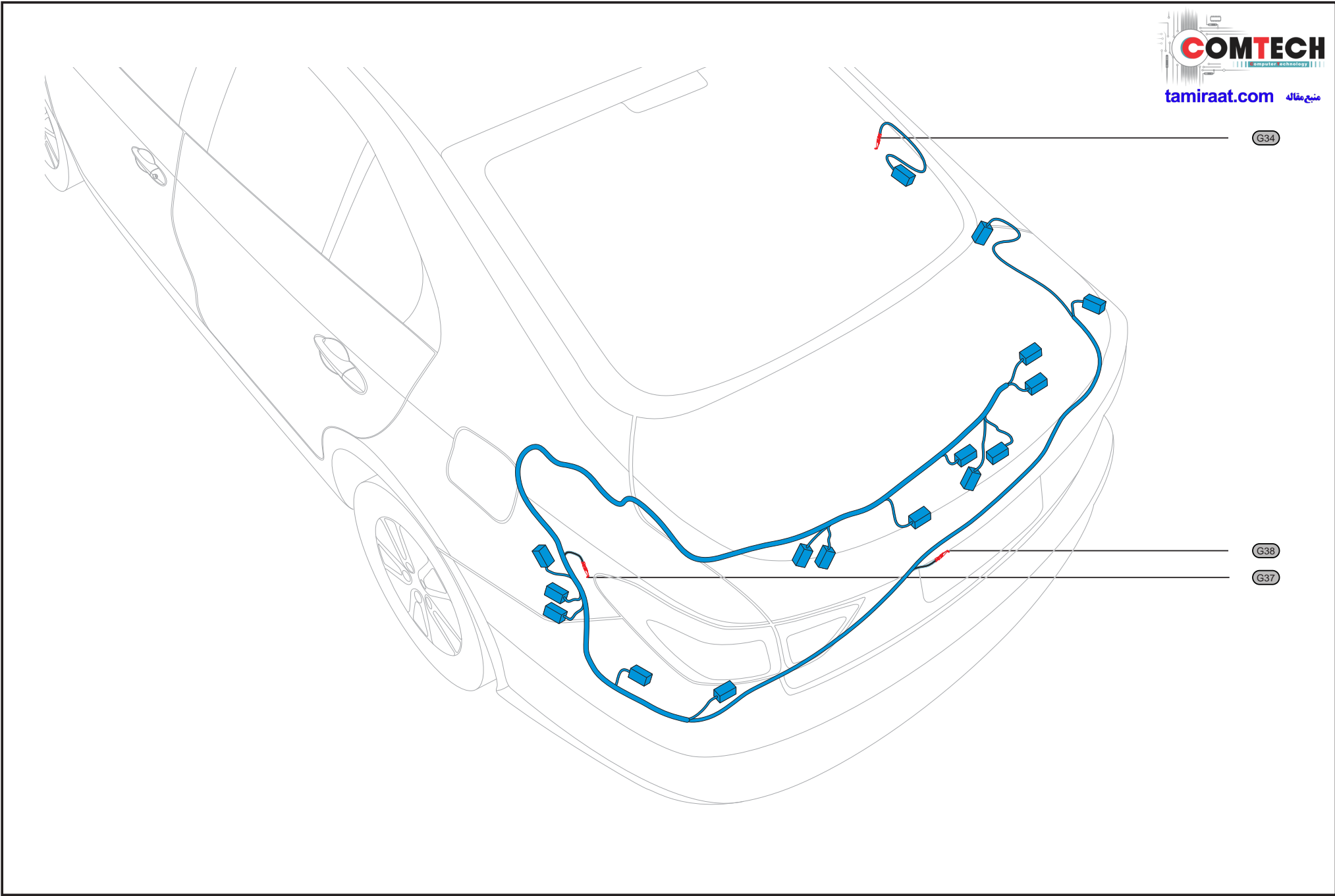
# Ground Point Location View-G29-G33



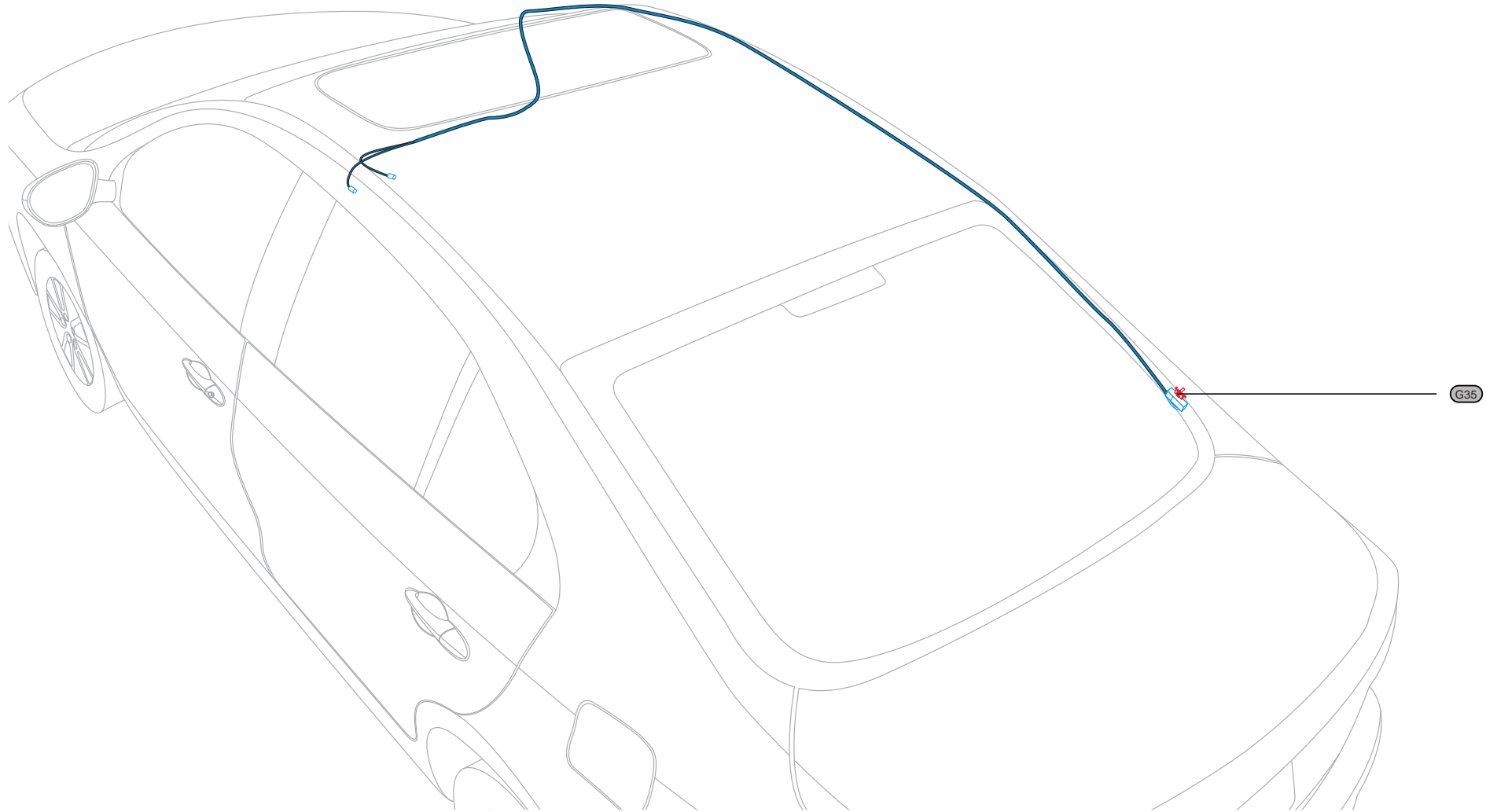
# Ground Point Location View-G31



# Ground Point Location View-G34-G37-G38

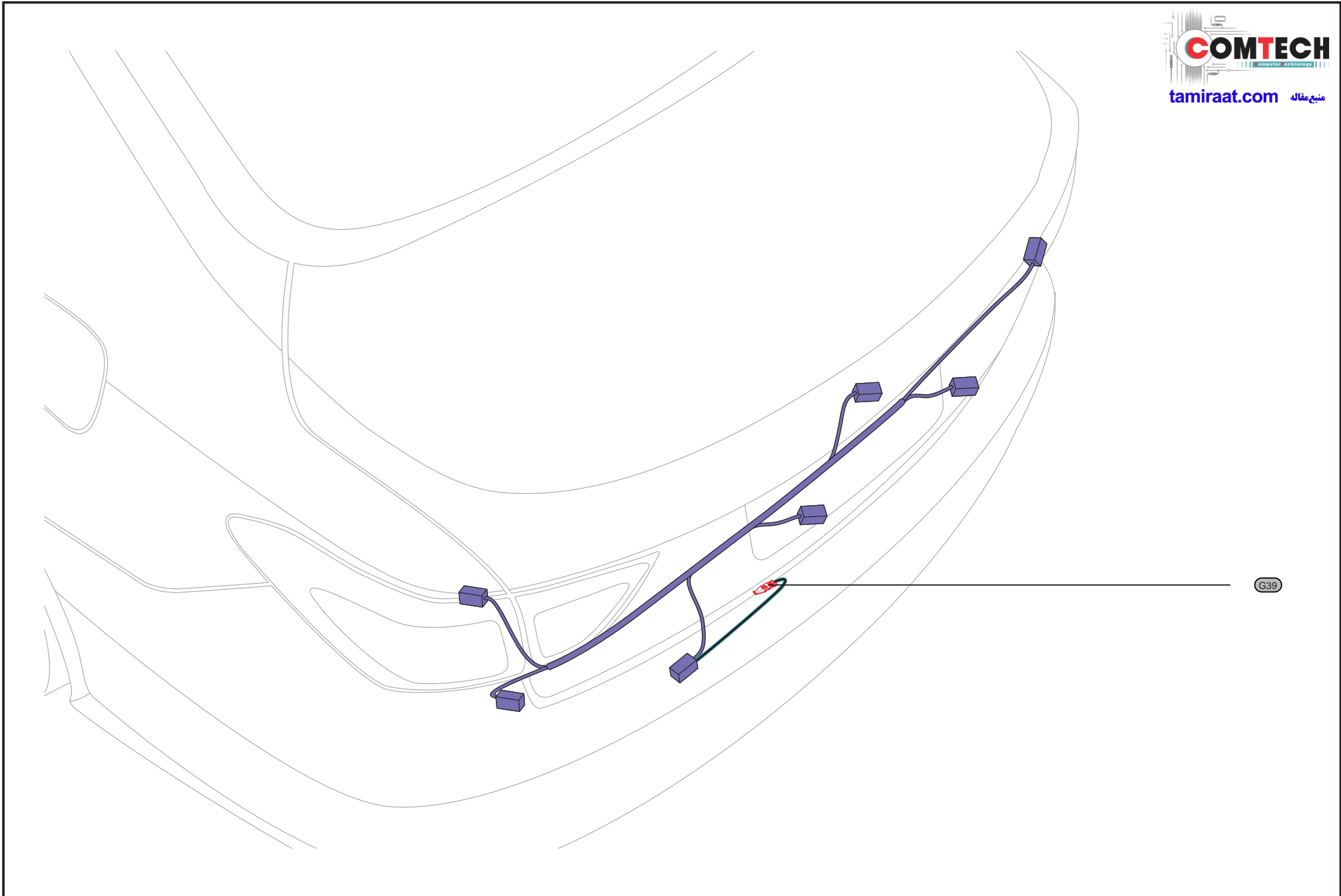


# Ground Point Location View-G35





# Ground Point Location View-G39



# Harness Connector View

## Engine Harness Connector (E--)

### ECU-1 Connector

|    |  |  |  |  |  |  |  |  |  |  |  |  |  |  |    |    |    |
|----|--|--|--|--|--|--|--|--|--|--|--|--|--|--|----|----|----|
| 49 |  |  |  |  |  |  |  |  |  |  |  |  |  |  | 62 | 63 | 64 |
| 33 |  |  |  |  |  |  |  |  |  |  |  |  |  |  | 46 | 47 | 48 |
| 17 |  |  |  |  |  |  |  |  |  |  |  |  |  |  | 30 | 31 | 32 |
| 1  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | 14 | 15 | 16 |

### E01a

#### E01a Pin Definition

| Pin Number | Wire Width / Color | Function                          |
|------------|--------------------|-----------------------------------|
| 1          | 0.50 R/W           | PCAN-H                            |
| 2          |                    | NC                                |
| 3          |                    | NC                                |
| 4          |                    | NC                                |
| 5          | 0.50 Y             | Main relay control signal         |
| 6          | 0.50 P/B           | Clutch switch signal              |
| 7          | 0.50 BI/W          | APP ground                        |
| 8          |                    | NC                                |
| 9          |                    | NC                                |
| 10         |                    | NC                                |
| 11         |                    | NC                                |
| 12         |                    | NC                                |
| 13         |                    | NC                                |
| 14         |                    | NC                                |
| 15         | 1.25 BI/R          | Main relay power                  |
| 16         | 1.25 BI/R          | Main relay power                  |
| 17         | 0.50 B/W           | PCAN-L                            |
| 18         |                    | NC                                |
| 19         |                    | NC                                |
| 20         | 0.85 R             | Battery power                     |
| 21         | 0.50 Gr            | Rear oxygen sensor signal         |
| 22         | 0.50 P             | N gear switch signal              |
| 23         | 0.50 Gr/W          | Brake switch signal(normally OFF) |
| 24         | 0.50 G             | A/C switch signal                 |
| 25         | 0.50 Gr/R          | Brake switch signal(normally ON)  |
| 26         |                    | NC                                |
| 27         |                    | NC                                |
| 28         | 0.50 R/G           | A/C request signal                |
| 29         | 0.50 BI/G          | Power steering switch signal      |
| 30         | 0.50 Gr            | APP signal 2                      |
| 31         | 1.25 Gr/V          | High speed fan control signal     |

## Engine Harness Connector (E--)

|    |           |                                      |
|----|-----------|--------------------------------------|
| 32 | 0.50 R/W  | Anti-theft input                     |
| 33 |           | NC                                   |
| 34 |           | NC                                   |
| 35 | 0.50 R/G  | IG1 power                            |
| 36 | 0.50 R/W  | APP 5V power                         |
| 37 | 0.50 O/BI | APP 5V power                         |
| 38 |           | NC                                   |
| 39 |           | NC                                   |
| 40 |           | NC                                   |
| 41 | 0.50 Gr/Y | Fuel pump control                    |
| 42 |           | NC                                   |
| 43 | 0.50 Br/R | Rear oxygen sensor ground            |
| 44 |           | NC                                   |
| 45 | 0.50 R/Y  | APP signal 1                         |
| 46 |           | NC                                   |
| 47 |           | NC                                   |
| 48 | 1.25 G/O  | Rear oxygen sensor heating signal    |
| 49 |           | NC                                   |
| 50 |           | NC                                   |
| 51 |           | NC                                   |
| 52 |           | NC                                   |
| 53 |           | NC                                   |
| 54 |           | NC                                   |
| 55 |           | NC                                   |
| 56 | 0.50 Gr/O | Low speed fan control signal         |
| 57 |           | NC                                   |
| 58 | 0.50 Gr/B | A/C compressor clutch control signal |
| 59 | 0.50 W/B  | APP ground                           |
| 60 |           | NC                                   |
| 61 |           | NC                                   |
| 62 |           | NC                                   |
| 63 | 1.25 B    | Ground                               |
| 64 | 1.25 B    | Ground                               |

### ECU-2 Connector

|     |  |  |  |  |  |  |  |  |  |     |     |     |
|-----|--|--|--|--|--|--|--|--|--|-----|-----|-----|
| 101 |  |  |  |  |  |  |  |  |  | 110 | 111 | 112 |
| 89  |  |  |  |  |  |  |  |  |  | 98  | 99  | 100 |
| 77  |  |  |  |  |  |  |  |  |  | 86  | 87  | 88  |
| 65  |  |  |  |  |  |  |  |  |  | 74  | 75  | 76  |

### E02a

# Harness Connector View

## Engine Harness Connector (E--)

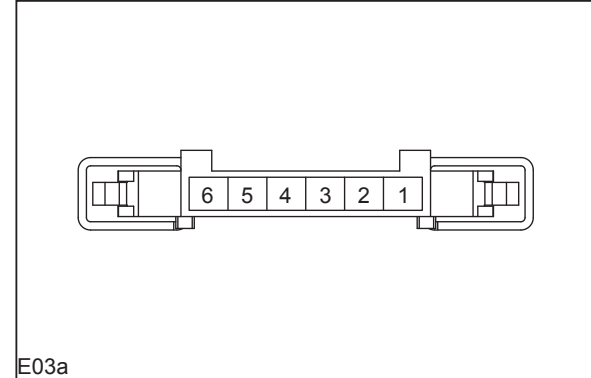
### E02a Pin Definition

| Pin Number | Wire Width / Color | Function                                   |
|------------|--------------------|--|
| 65         |                    | NC   |
| 66         |                    | NC   |
| 67         | 0.50 Y/R           | NO.2 cylinder injector control signal      |
| 68         | 0.50 O/B           | NO.1 cylinder injector control signal      |
| 69         |                    | NC   |
| 70         |                    | NC   |
| 71         | 0.50 Y/W           | Intake VVT valve control signal            |
| 72         | 0.50 P/Y           | NO.3 cylinder injector control signal      |
| 73         | 0.50 B/R           | Front oxygen sensor heating signal         |
| 74         | 0.50 G/Y           | NO.4 cylinder injector control signal      |
| 75         | 0.85 P             | TPS power +                                |
| 76         | 1.25 Br            | NO.4 cylinder ignition coil control signal |
| 77         | 0.50 W/O           | TPS signal 1                               |
| 78         | 0.50 BI/G          | TPS signal 2                               |
| 79         |                    | NC   |
| 80         | 0.50 Br/Y          | Front oxygen sensor ground                 |
| 81         |                    | NC   |
| 82         |                    | NC   |
| 83         |                    | NC   |
| 84         |                    | NC   |
| 85         | 0.50 Y/BI          | MAT/IAT ground                             |
| 86         | 0.50 V             | TPS ground                                 |
| 87         | 0.85 R/G           | TPS power -                                |
| 88         | 1.25 P/G           | NO.2 cylinder ignition coil control signal |
| 89         | 0.50 BI/O          | Knock sensor B                             |
| 90         | 0.50 BI/B          | Knock sensor A                             |
| 91         | 0.50 BI            | MAP signal                                 |
| 92         |                    | NC   |
| 93         | 0.50 R/BI          | CMP signal                                 |
| 94         | 0.50 W/G           | Canister solenoid valve control signal     |
| 95         | 0.50 BI/W          | CMP ground                                 |
| 96         | 0.50 G             | CKP signal A                               |
| 97         | 0.50 BI            | CKP signal B                               |
| 98         | 0.50 Y/G           | CMP 5V power                               |
| 99         | 1.25 BI/W          | NO.3 cylinder ignition coil control signal |
| 100        | 1.25 BI/W          | NO.1 cylinder ignition coil control signal |
| 101        | 0.50 Y/B           | Coolant temperature sensor signal          |
| 102        | 0.85 Y/R           | IAT signal                                 |
| 103        |                    | NC   |
| 104        | 0.50 O/Y           | Front oxygen sensor signal                 |
| 105        |                    | NC   |
| 106        |                    | NC   |
| 107        | 0.50 R/B           | TPS 5V power                               |
| 108        |                    | NC   |
| 109        | 0.50 P/B           | MAP 5V power                               |

## Engine Harness Connector (E--)

|     |        |        |
|-----|--------|--------|
| 110 |        | NC     |
| 111 | 1.25 B | Ground |
| 112 | 1.25 B | Ground |

### Accelerator Pedal Position Sensor Connector

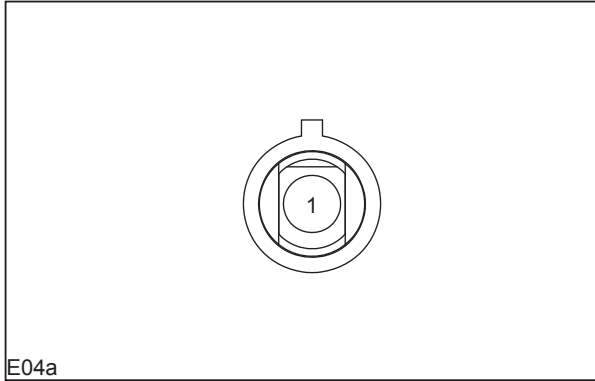


### E03a Pin Definition

| Pin Number | Wire Width / Color | Function            |
|------------|--------------------|---------------------|
| 1          | 0.50 Gr            | APP sensor 2 signal |
| 2          | 0.50 W/B           | APP sensor 2 ground |
| 3          | 0.50 R/Y           | APP sensor 1 signal |
| 4          | 0.50 BI/W          | APP sensor 1 ground |
| 5          | 0.50 O/BI          | APP sensor 1 power  |
| 6          | 0.50 R/W           | APP sensor 2 power  |

# Harness Connector View

Engine Harness Connector (E--)  
Power Steering Switch Connector

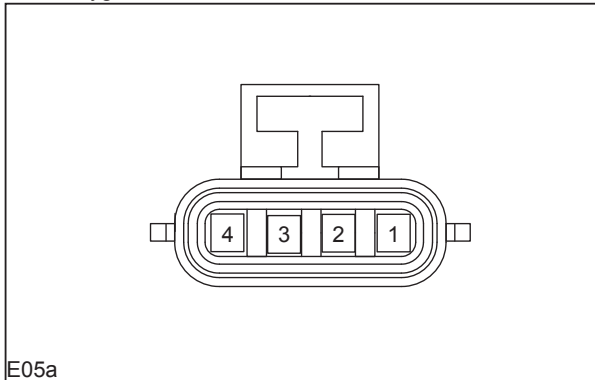


E04a

E04a Pin Definition

| Pin Number | Wire Width / Color | Function |
|------------|--------------------|----------|
| 1          | 0.50 BI/G          | Signal   |

Front Oxygen Sensor Connector

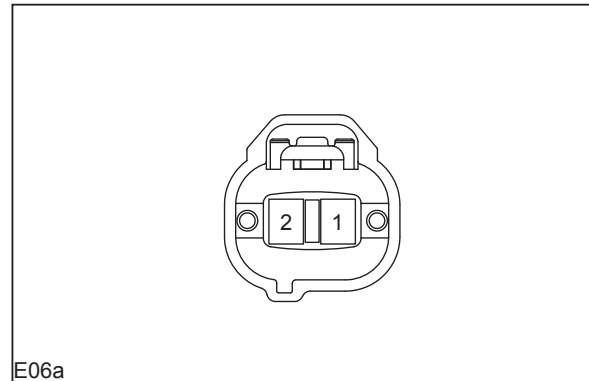


E05a

E05a Pin Definition

| Pin Number | Wire Width / Color | Function       |
|------------|--------------------|----------------|
| 1          | 0.85 BI/Y          | Power          |
| 2          | 0.50 B/R           | Heating signal |
| 3          | 0.50 O/Y           | Signal         |
| 4          | 0.50 Br/Y          | Ground         |

Engine Harness Connector (E--)  
Intake VVT Valve Connector

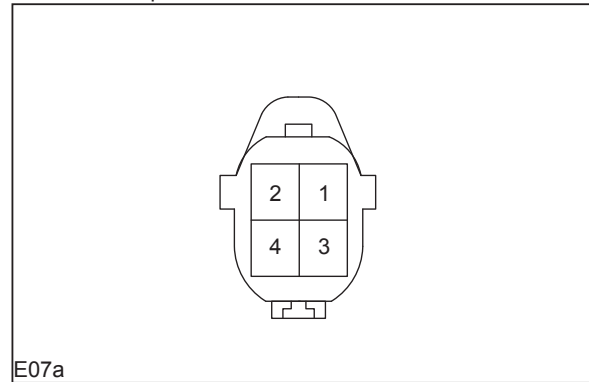


E06a

E06a Pin Definition

| Pin Number | Wire Width / Color | Function |
|------------|--------------------|----------|
| 1          | 0.85 BI/R          | Power    |
| 2          | 0.50 Y/W           | Signal   |

Intake Air Temperature/Pressure Sensor Connector



E07a

E07a Pin Definition

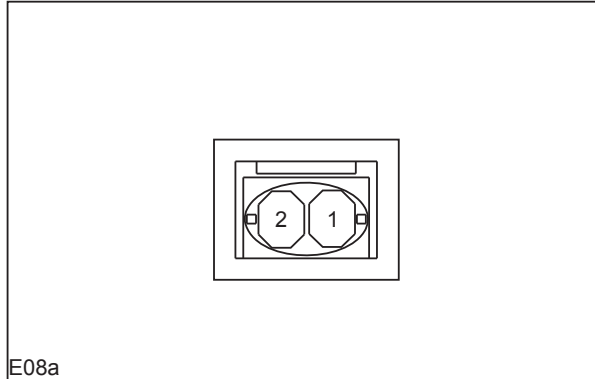
| Pin Number | Wire Width / Color | Function           |
|------------|--------------------|--------------------|
| 1          | 0.50 BI            | Pressure signal    |
| 2          | 0.50 P/B           | 5V power           |
| 3          | 0.85 Y/R           | Temperature signal |
| 4          | 0.50 Y/BI          | Signal ground      |



# Harness Connector View

Engine Harness Connector (E--)

Knock Sensor Connector

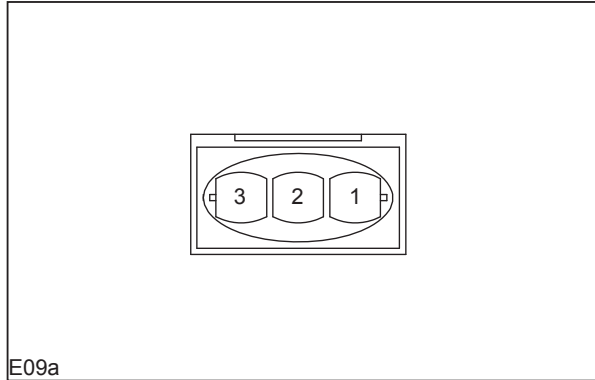


E08a

E08a Pin Definition

| Pin Number | Wire Width / Color | Function    |
|------------|--------------------|-------------|
| 1          | 0.50 BI/B          | KS signal A |
| 2          | 0.50 BI/O          | KS signal B |

Crankshaft Position Sensor Connector



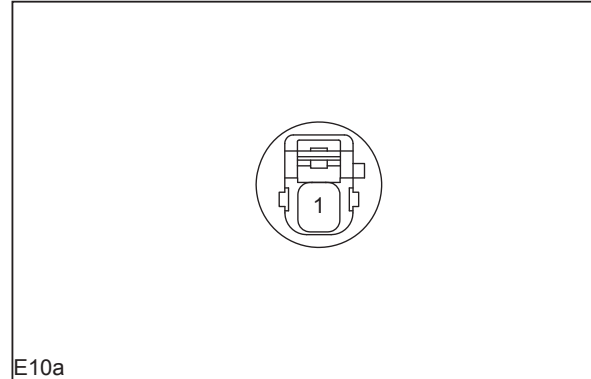
E09a

E09a Pin Definition

| Pin Number | Wire Width / Color | Function     |
|------------|--------------------|--------------|
| 1          | 0.50 B             | Ground       |
| 2          | 0.50 BI            | CKP signal B |
| 3          | 0.50 G             | CKP signal A |

Engine Harness Connector (E--)

Oil Pressure Switch Connector

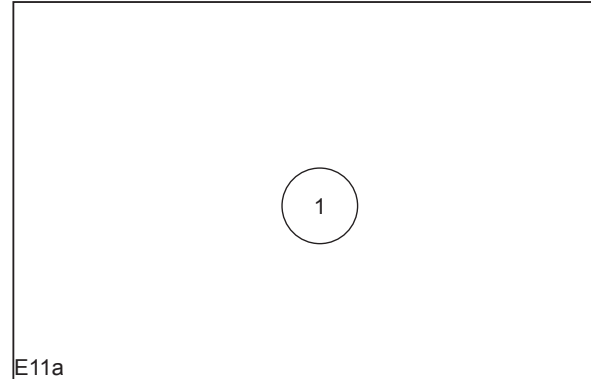


E10a

E10a Pin Definition

| Pin Number | Wire Width / Color | Function |
|------------|--------------------|----------|
| 1          | 0.50 Y/B           | Signal   |

A/C Compressor Switch Connector



E11a

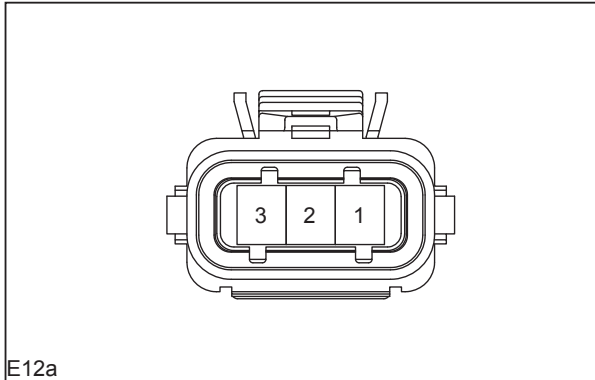
E11a Pin Definition

| Pin Number | Wire Width / Color | Function |
|------------|--------------------|----------|
| 1          | 0.85 R/V           | Signal   |

# Harness Connector View

Engine Harness Connector (E--)

Camshaft Position Sensor Connector

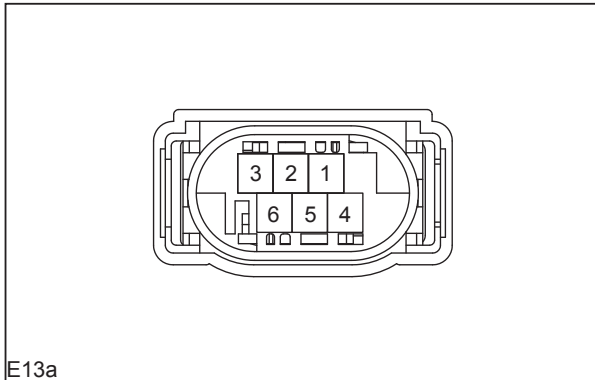


E12a

E12a Pin Definition

| Pin Number | Wire Width / Color | Function |
|------------|--------------------|----------|
| 1          | 0.50 Y/G           | 5V power |
| 2          | 0.50 R/BI          | Signal   |
| 3          | 0.50 BI/W          | Ground   |

Throttle Position Sensor Connector



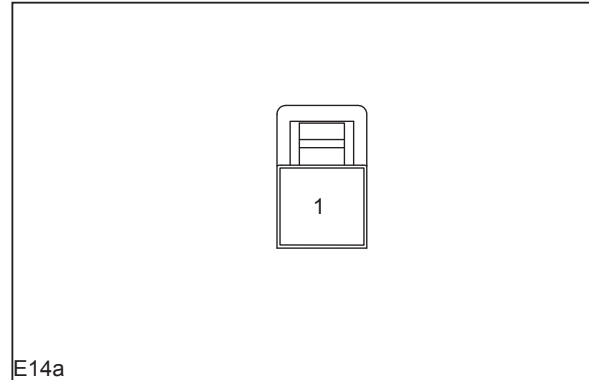
E13a

E13a Pin Definition

| Pin Number | Wire Width / Color | Function     |
|------------|--------------------|--------------|
| 1          | 0.85 P             | Power +      |
| 2          | 0.50 BI/G          | TPS signal 2 |
| 3          | 0.50 W/O           | TPS signal 1 |
| 4          | 0.85 R/G           | Power -      |
| 5          | 0.50 V             | Ground       |
| 6          | 0.50 R/B           | 5V power     |

Engine Harness Connector (E--)

Stator Connector

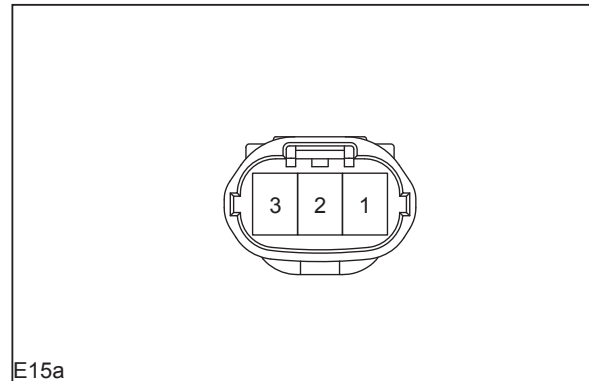


E14a

E14a Pin Definition

| Pin Number | Wire Width / Color | Function |
|------------|--------------------|----------|
| 1          | 2.00 B/Y           | Power    |

Alternator Connector



E15a

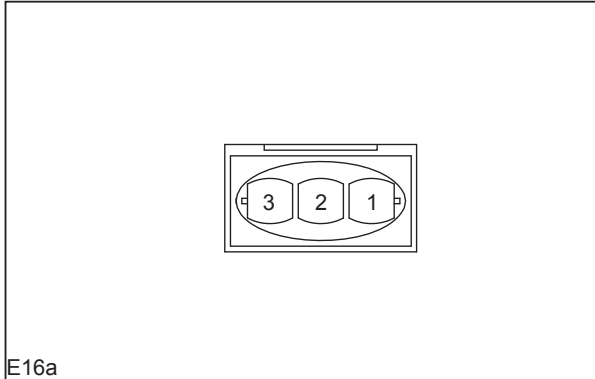
E15a Pin Definition

| Pin Number | Wire Width / Color | Function                  |
|------------|--------------------|---------------------------|
| 1          | 0.85 R             | Alternator power output   |
| 2          | 0.85 B/W           | Power                     |
| 3          | 0.50 W/R           | Charging indicator signal |



# Harness Connector View

Engine Harness Connector (E--)  
Coolant Temperature Sensor Connector

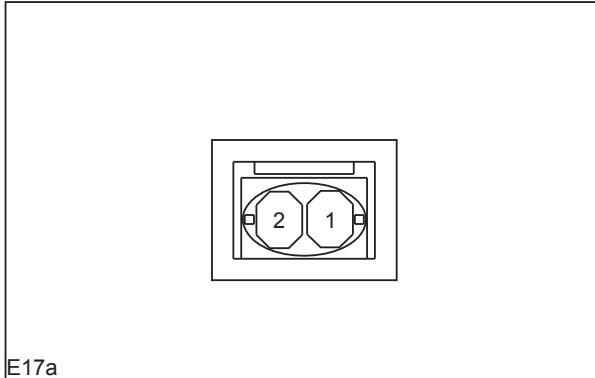


E16a

E16a Pin Definition

| Pin Number | Wire Width / Color | Function |
|------------|--------------------|----------|
| 1          | 0.50 Y/B           | Signal   |
| 2          |                    | NC       |
| 3          | 0.50 Y/R           | Ground   |

Canister Solenoid Valve Connector

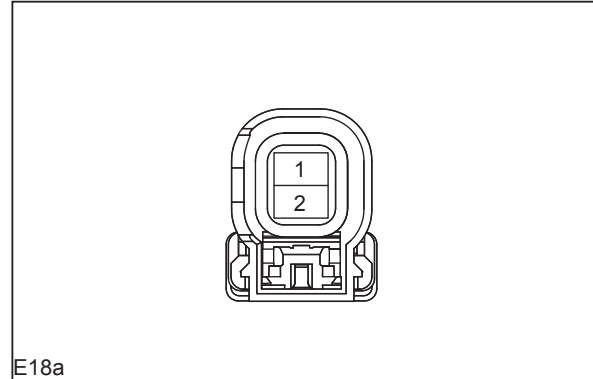


E17a

E17a Pin Definition

| Pin Number | Wire Width / Color | Function |
|------------|--------------------|----------|
| 1          | 0.50 W/G           | Signal   |
| 2          | 0.85 B/R           | Power    |

Engine Harness Connector (E--)  
NO.1 Cylinder Injector Connector

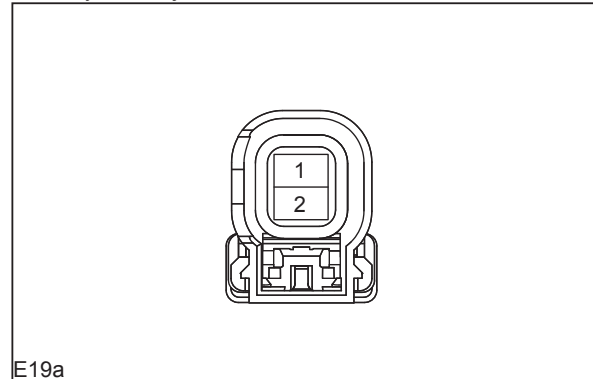


E18a

E18a Pin Definition

| Pin Number | Wire Width / Color | Function |
|------------|--------------------|----------|
| 1          | 0.85 B/R           | Power    |
| 2          | 0.50 O/B           | Signal   |

NO.2 Cylinder Injector Connector



E19a

E19a Pin Definition

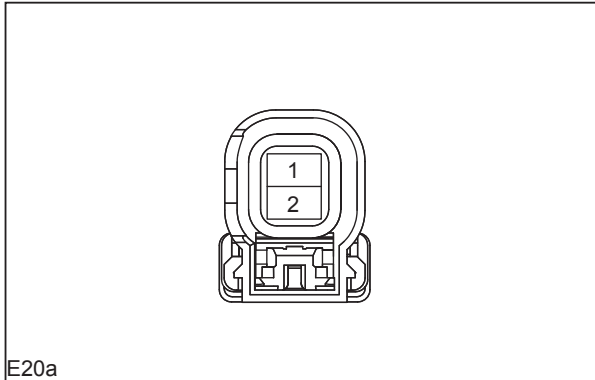
| Pin Number | Wire Width / Color | Function |
|------------|--------------------|----------|
| 1          | 0.85 B/R           | Power    |
| 2          | 0.50 Y/R           | Signal   |



# Harness Connector View

Engine Harness Connector (E--)

NO.3 Cylinder Injector Connector

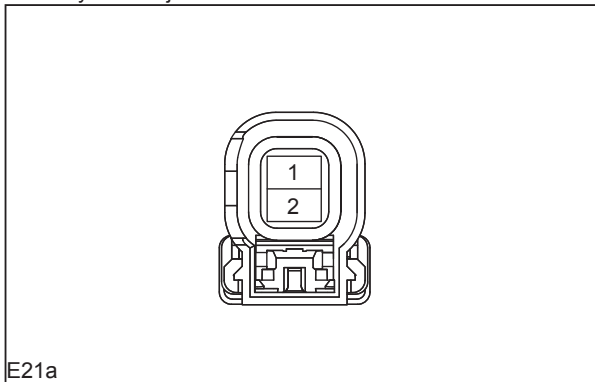


E20a

E20a Pin Definition

| Pin Number | Wire Width / Color | Function |
|------------|--------------------|----------|
| 1          | 0.85 B/R           | Power    |
| 2          | 0.50 P/Y           | Signal   |

NO.4 Cylinder Injector Connector



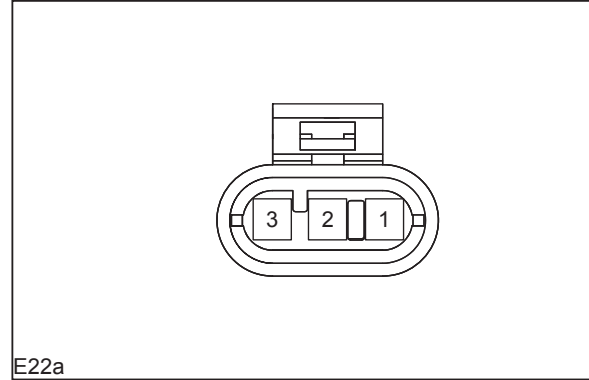
E21a

E21a Pin Definition

| Pin Number | Wire Width / Color | Function |
|------------|--------------------|----------|
| 1          | 0.85 B/R           | Power    |
| 2          | 0.50 G/Y           | Signal   |

Engine Harness Connector (E--)

NO.1 Cylinder Ignition Coil Connector

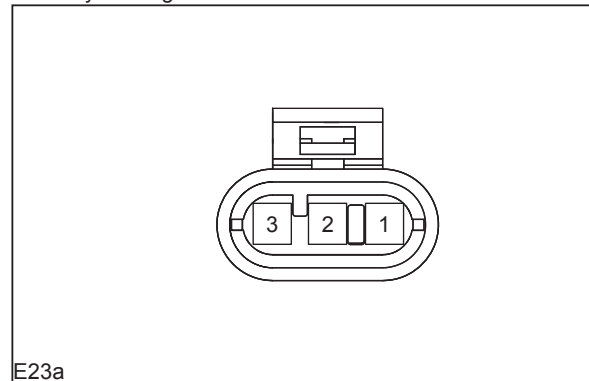


E22a

E22a Pin Definition

| Pin Number | Wire Width / Color | Function       |
|------------|--------------------|----------------|
| 1          | 1.25 B/W           | Control signal |
| 2          | 0.85 R/G           | Power          |
| 3          | 0.85 B             | Ground         |

NO.2 Cylinder Ignition Coil Connector



E23a

E23a Pin Definition

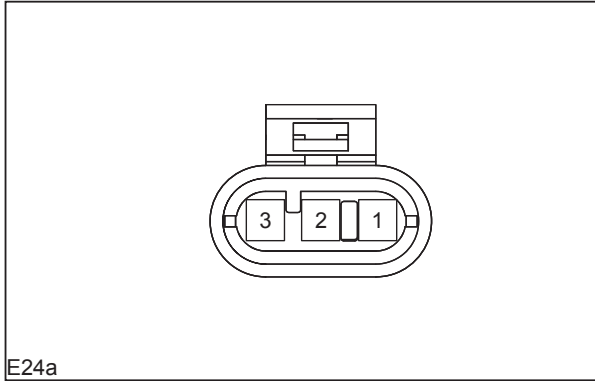
| Pin Number | Wire Width / Color | Function       |
|------------|--------------------|----------------|
| 1          | 1.25 P/G           | Control signal |
| 2          | 0.85 R/G           | Power          |
| 3          | 0.85 B             | Ground         |



# Harness Connector View

Engine Harness Connector (E--)

NO.3 Cylinder Ignition Coil Connector

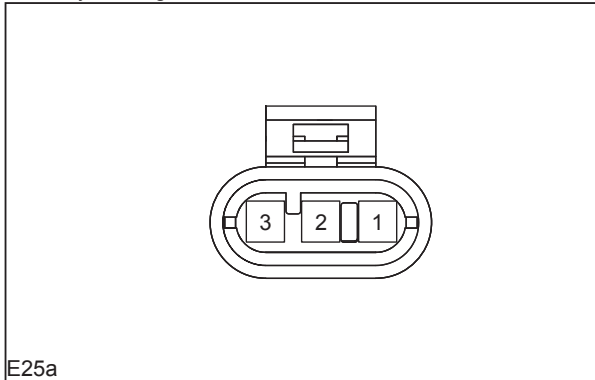


E24a

E24a Pin Definition

| Pin Number | Wire Width / Color | Function       |
|------------|--------------------|----------------|
| 1          | 1.25 BI/W          | Control signal |
| 2          | 0.85 R/G           | Power          |
| 3          | 0.85 B             | Ground         |

NO.4 Cylinder Ignition Connector



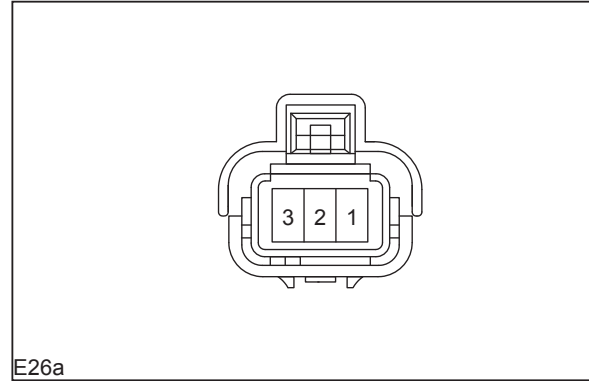
E25a

E25a Pin Definition

| Pin Number | Wire Width / Color | Function       |
|------------|--------------------|----------------|
| 1          | 1.25 Br            | Control signal |
| 2          | 0.85 R/G           | Power          |
| 3          | 0.85 B             | Ground         |

Engine Harness Connector (E--)

N Gear Switch Connector

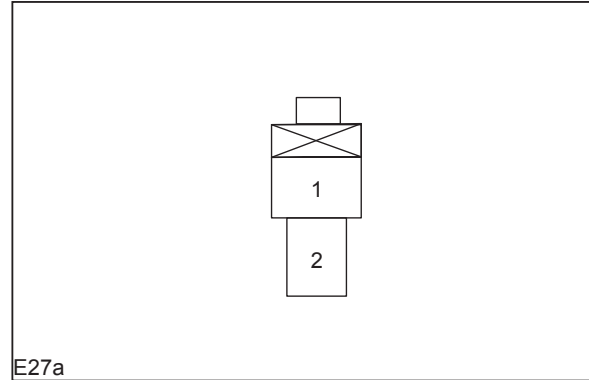


E26a

E26a Pin Definition

| Pin Number | Wire Width / Color | Function |
|------------|--------------------|----------|
| 1          | 0.50 P             | Power    |
| 2          | 0.50 B             | Ground   |
| 3          |                    | NC       |

Reverse Lamp Switch Connector



E27a

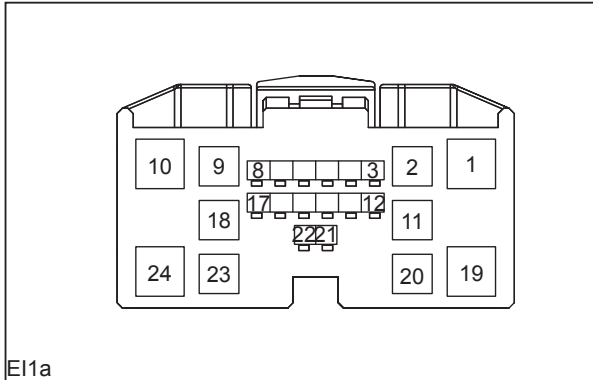
E27a Pin Definition

| Pin Number | Wire Width / Color | Function |
|------------|--------------------|----------|
| 1          | 0.50 G/P           | Power    |
| 2          | 0.50 B             | Ground   |

# Harness Connector View

Engine Harness Connector (E--)

Engine Harness to I/P Harness Connector



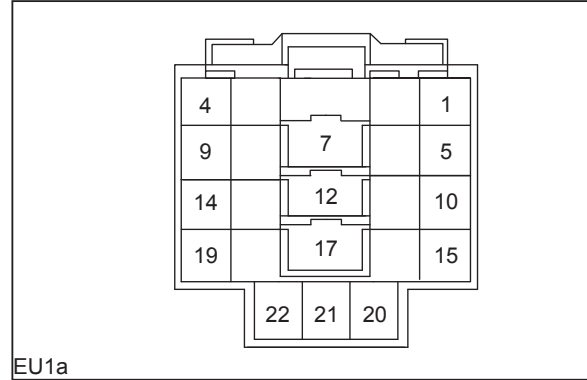
E11a

E11a Pin Definition

| Pin Number | Wire Width / Color | Function                          |
|------------|--------------------|-----------------------------------|
| 1          |                    | NC                                |
| 2          | 0.50 B/W           | PCAN-L                            |
| 3          | 0.50 Gr            | Rear oxygen sensor signal         |
| 4          | 0.85 Br/R          | Ground                            |
| 5          | 0.50 P             | N gear switch signal              |
| 6          |                    | NC                                |
| 7          | 0.50 P/B           | Clutch switch signal              |
| 8          | 0.50 Gr/R          | Brake switch signal(normally ON)  |
| 9          | 0.85 Bl/R          | Power                             |
| 10         |                    | NC                                |
| 11         | 0.50 R/W           | PCAN-H                            |
| 12         |                    | NC                                |
| 13         | 0.50 W/R           | Charging indicator signal         |
| 14         | 0.50 Y/B           | Oil pressure switch signal        |
| 15         | 0.50 G/P           | Reversing switch signal           |
| 16         |                    | NC                                |
| 17         | 0.50 Gr/W          | Brake switch signal(normally OFF) |
| 18         | 1.25 G/O           | Rear oxygen sensor heating signal |
| 19         |                    | NC                                |
| 20         | 0.50 R/G           | IG1 power                         |
| 21         |                    | NC                                |
| 22         |                    | NC                                |
| 23         | 0.85 B/W           | Power                             |
| 24         |                    | NC                                |

Engine Harness Connector (E--)

Engine Harness to Engine Compartment Harness Connector



EU1a

EU1a Pin Definition

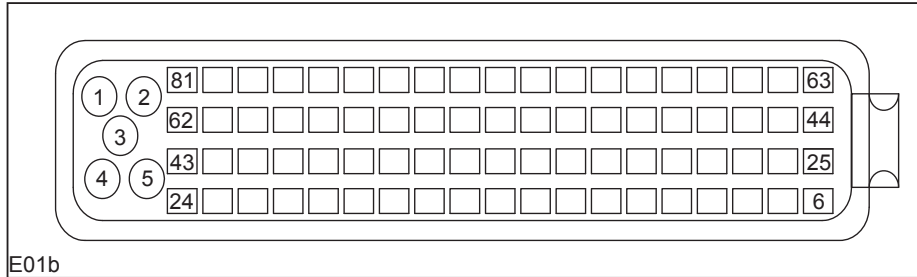
| Pin Number | Wire Width / Color | Function                         |
|------------|--------------------|----------------------------------|
| 1          | 1.25 Gr/V          | High speed fan relay control     |
| 2          | 0.50 Gr/B          | Compressor relay control         |
| 3          | 0.50 Gr/Y          | Fuel pump control                |
| 4          | 0.50 Gr/O          | Low speed fan control            |
| 5          | 0.50 Y             | Main relay control signal        |
| 6          | 0.85 R/V           | Compressor power                 |
| 7          | 2.00 B/Y           | Stator power                     |
| 8          | 0.85 Bl/Y          | Front oxygen sensor power        |
| 9          |                    | NC                               |
| 10         | 0.50 G             | A/C medium pressure signal input |
| 11         | 0.50 R/G           | A/C switch signal                |
| 12         | 2.00 Bl/R          | Injector power                   |
| 13         | 0.85 R             | ECU power                        |
| 14         |                    | NC                               |
| 15         |                    | NC                               |
| 16         |                    | NC                               |
| 17         | 1.25 R/G           | Ignition coil power              |
| 18         |                    | NC                               |
| 19         |                    | NC                               |
| 20         |                    | NC                               |
| 21         |                    | NC                               |
| 22         |                    | NC                               |



# Harness Connector View

## Engine Harness Connector (E--)

### ECU Connector



E01b

### E01b Pin Definition

| Pin Number | Wire Width / Color | Function                                   |
|------------|--------------------|--|
| 1          | 0.85 P             | NO.3 cylinder ignition coil control signal |
| 2          | 1.25 B             | Ground                                     |
| 3          | 1.25 B             | Ground                                     |
| 4          | 0.85 W             | NO.1 cylinder ignition coil control signal |
| 5          | 1.25 BI/R          | Main relay power                           |
| 6          | 0.85 P/Y           | NO.1 cylinder injector control signal      |
| 7          | 0.85 P/Y           | NO.3 cylinder injector control signal      |
| 8          | 0.85 Y/R           | NO.2 cylinder injector control signal      |
| 9          | 0.50 B/Br          | Fuel pump control                          |
| 10         | 0.50 W             | A/C compressor relay control signal        |
| 11         | 0.50 BI            | CKP signal-A                               |
| 12         |                    | NC   |
| 13         |                    | NC   |
| 14         |                    | NC   |
| 15         |                    | NC   |
| 16         |                    | NC   |
| 17         | 0.50 O/BI          | High speed fan relay control signal        |
| 18         |                    | NC   |
| 19         |                    | NC   |
| 20         | 1.25 V             | Throttle motor -                           |
| 21         | 1.25 Y/W           | Throttle motor +                           |
| 22         |                    | NC   |
| 23         | 0.85 G             | Rear oxygen sensor heating control signal  |
| 24         | 0.50 V/W           | Front oxygen sensor heating signal         |
| 25         | 0.85 G/Y           | NO.4 cylinder injector control signal      |
| 26         | 0.50 V             | Cruise control switch signal               |
| 27         | 0.50 P             | TPS signal 2                               |
| 28         |                    | NC   |
| 29         |                    | NC   |
| 30         | 0.50 G             | CKP signal-B                               |
| 31         |                    | NC   |

## Engine Harness Connector (E--)

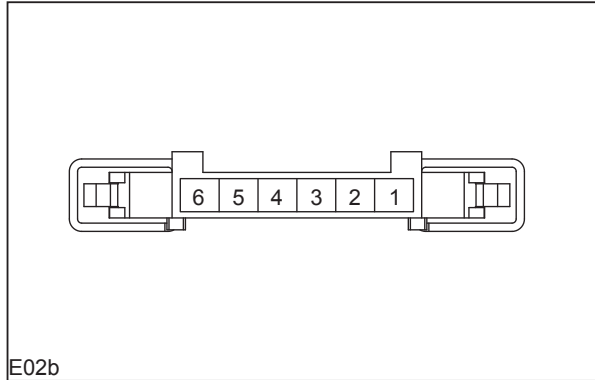
|    |           |  |
|----|-----------|--|
| 32 |           | NC                                     |
| 33 | 0.50 BI/R | Brake switch signal (normally ON)      |
| 34 |           | NC                                     |
| 35 |           | NC                                     |
| 36 | 0.50 W    | KS signal A                            |
| 37 | 0.50 B    | KS signal B                            |
| 38 | 0.50 BI/B | PCAN-L                                 |
| 39 | 0.50 BI/W | PCAN-H                                 |
| 40 | 0.50 G    | A/C medium pressure switch signal      |
| 41 | 0.50 R/Y  | APP signal 1                           |
| 42 | 0.50 Gr   | APP signal 2                           |
| 43 | 0.85 Y/W  | Intake VVT valve control signal        |
| 44 | 0.50 Y    | Main relay control signal              |
| 45 |           | NC                                     |
| 46 |           | NC                                     |
| 47 | 0.50 O/Y  | Front oxygen sensor signal             |
| 48 | 0.50 Gr   | Rear oxygen sensor signal              |
| 49 | 0.50 Y/B  | Coolant temperature sensor signal      |
| 50 | 0.50 BI   | Alternator field current control       |
| 51 |           | NC                                     |
| 52 | 0.50 BI/G | TPS signal 1                           |
| 53 |           | NC                                     |
| 54 | 0.50 P    | MAP signal                             |
| 55 |           | NC                                     |
| 56 |           | NC                                     |
| 57 |           | NC                                     |
| 58 |           | NC                                     |
| 59 |           | NC                                     |
| 60 | 0.50 BI/G | Power steering switch signal           |
| 61 |           | NC                                     |
| 62 | 0.85 G    | NO.4 cylinder ignition control signal  |
| 63 |           | NC                                     |
| 64 | 0.85 W/G  | Canister solenoid valve control signal |
| 65 | 0.50 BI/G | Low speed fan relay control signal     |
| 66 | 0.50 R/W  | 5V power                               |
| 67 | 0.85 R/B  | Power                                  |
| 68 | 0.85 B/W  | Power                                  |
| 69 | 0.50 G/W  | Brake switch signal (normally OFF)     |
| 70 | 0.50 R/B  | 5V Power                               |
| 71 | 0.50 BI   | Intake temperature signal              |
| 72 |           | NC                                     |
| 73 | 0.50 V/B  | Oxygen sensor signal ground            |
| 74 | 0.50 W    | Ground                                 |
| 75 | 0.50 P/G  | K-line                                 |

# Harness Connector View

## Engine Harness Connector (E--)

| Pin Number | Wire Width / Color | Function                              |
|------------|--------------------|---------------------------------------|
| 76         | 0.50 R/B           | Ground                                |
| 77         | 0.50 G/W           | CMP signal                            |
| 78         |                    | NC                                    |
| 79         | 0.50 R/G           | A/C request signal                    |
| 80         |                    | NC                                    |
| 81         | 0.85 Y             | NO.2 cylinder ignition control signal |

## Accelerator Pedal Position Sensor Connector

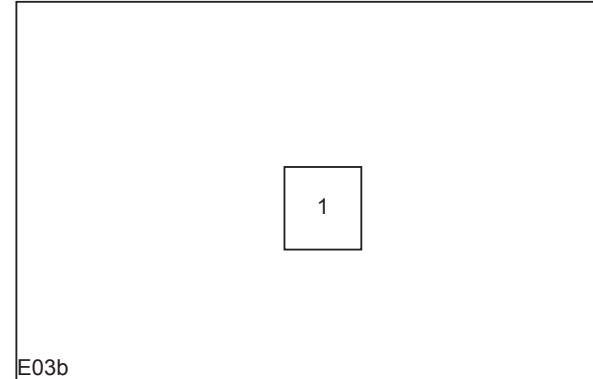


### E02b Pin Definition

| Pin Number | Wire Width / Color | Function            |
|------------|--------------------|---------------------|
| 1          | 0.50 Gr            | APP sensor 2 signal |
| 2          | 0.50 R/B           | APP sensor 2 ground |
| 3          | 0.50 R/Y           | APP sensor 1 signal |
| 4          | 0.50 W             | APP sensor 1 ground |
| 5          | 0.50 R/B           | APP sensor 1 power  |
| 6          | 0.50 R/W           | APP sensor 2 power  |

## Engine Harness Connector (E--)

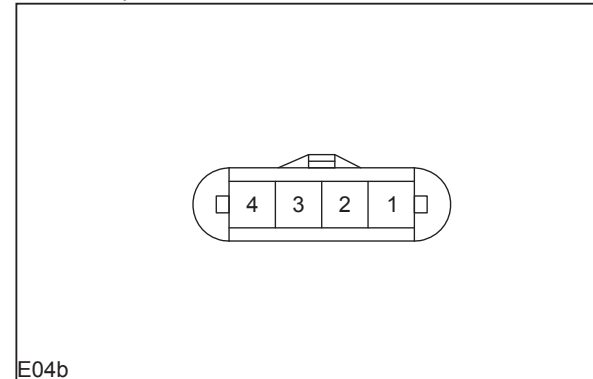
### Power Steering Switch Connector



### E03b Pin Definition

| Pin Number | Wire Width / Color | Function |
|------------|--------------------|----------|
| 1          | 0.50 BI/G          | Signal   |

## Intake Temperature/Pressure Sensor Connector



### E04b Pin Definition

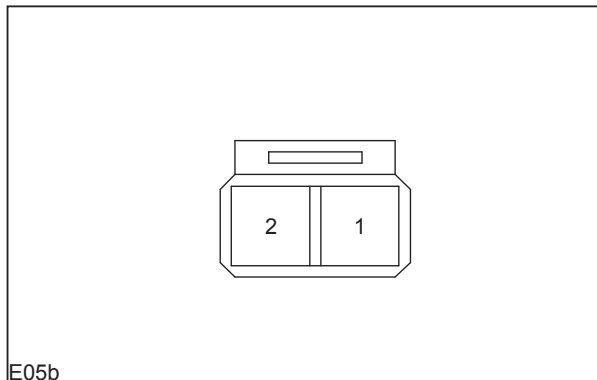
| Pin Number | Wire Width / Color | Function           |
|------------|--------------------|--------------------|
| 1          | 0.50 P             | Pressure signal    |
| 2          | 0.50 R/W           | Power              |
| 3          | 0.50 BI            | Temperature signal |
| 4          | 0.50 R/B           | Signal ground      |



# Harness Connector View

## Engine Harness Connector (E--)

### Knock Sensor Connector

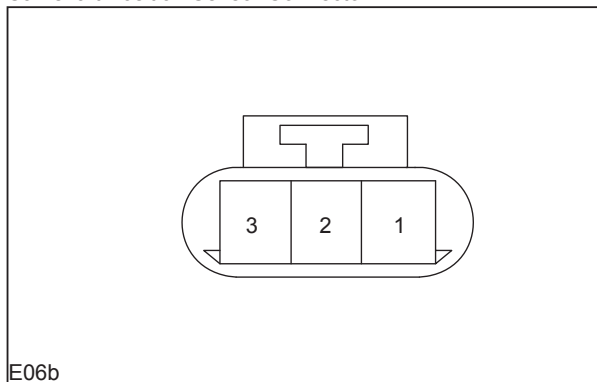


E05b

#### E05b Pin Definition

| Pin Number | Wire Width / Color | Function |
|------------|--------------------|----------|
| 1          | 0.50 B             | Signal-A |
| 2          | 0.50 W             | Signal-B |

### Camshaft Position Sensor Connector



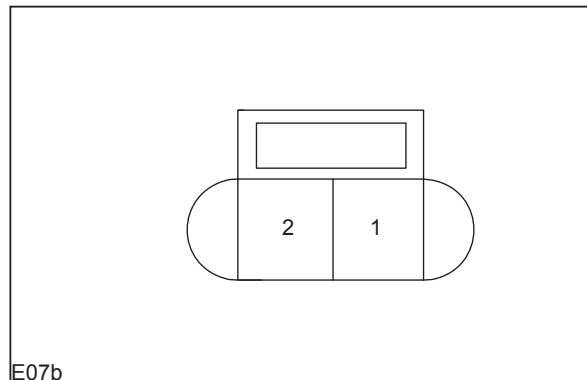
E06b

#### E06b Pin Definition

| Pin Number | Wire Width / Color | Function |
|------------|--------------------|----------|
| 1          | 0.50 R/B           | Power    |
| 2          | 0.50 W             | Ground   |
| 3          | 0.50 G/W           | Signal   |

## Engine Harness Connector (E--)

### Canister Solenoid Valve Connector

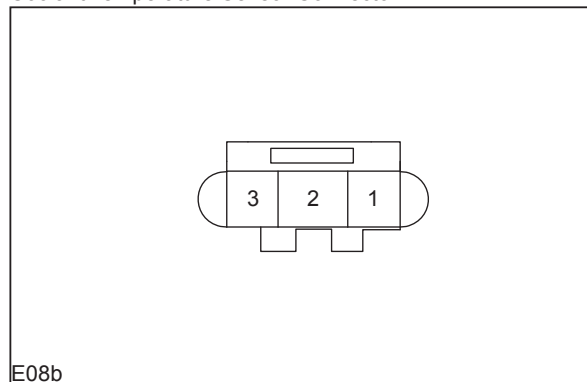


E07b

#### E07b Pin Definition

| Pin Number | Wire Width / Color | Function |
|------------|--------------------|----------|
| 1          | 0.85 B/R           | Power    |
| 2          | 0.85 W/G           | Signal   |

### Coolant Temperature Sensor Connector



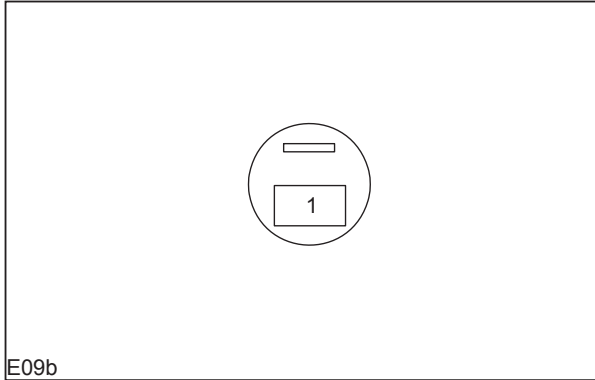
E08b

#### E08b Pin Definition

| Pin Number | Wire Width / Color | Function           |
|------------|--------------------|--------------------|
| 1          | 0.50 W             | Temperature signal |
| 2          |                    | NC                 |
| 3          | 0.50 Y/B           | Signal ground      |

# Harness Connector View

Engine Harness Connector (E--)  
Oil Pressure Switch Connector

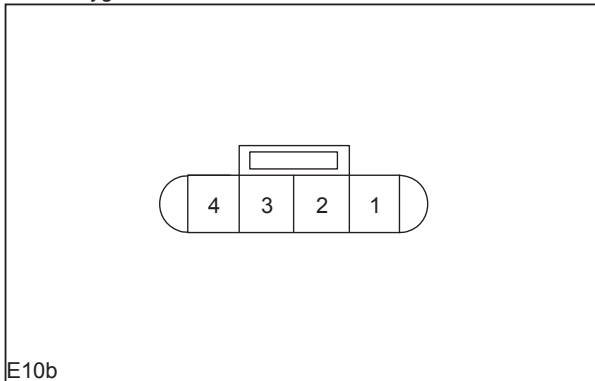


E09b

E09b Pin Definition

| Pin Number | Wire Width / Color | Function |
|------------|--------------------|----------|
| 1          | 0.50 Y/B           | Signal   |

Front Oxygen Sensor Connector

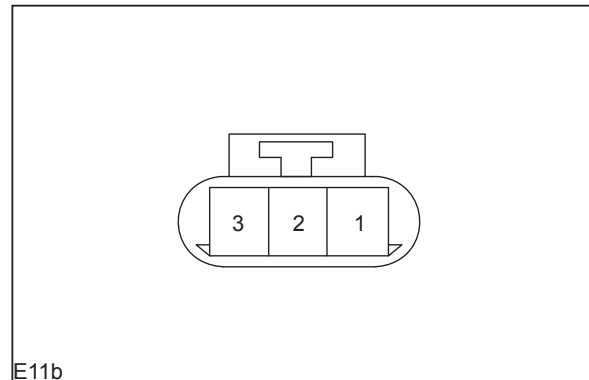


E10b

E10b Pin Definition

| Pin Number | Wire Width / Color | Function       |
|------------|--------------------|----------------|
| 1          | 0.50 R/G           | Power          |
| 2          | 0.50 V/W           | Heating signal |
| 3          | 0.50 O/Y           | Signal         |
| 4          | 0.50 V/B           | Signal ground  |

Engine Harness Connector (E--)  
Crankshaft Position Sensor Connector



E11b

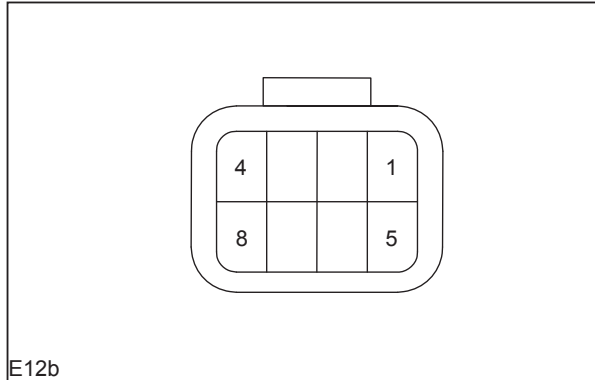
E11b Pin Definition

| Pin Number | Wire Width / Color | Function |
|------------|--------------------|----------|
| 1          | 0.50 G             | Signal-A |
| 2          | 0.50 BI            | Signal-B |
| 3          | 0.50 B             | Ground   |



# Harness Connector View

Engine Harness Connector (E--)  
Throttle Position Sensor Connector

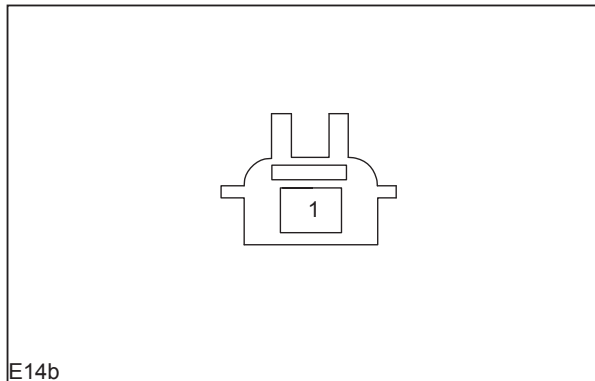


E12b

E12b Pin Definition

| Pin Number | Wire Width / Color | Function               |
|------------|--------------------|------------------------|
| 1          | 0.50 W             | Ground                 |
| 2          | 0.50 BI/G          | Throttle signal 1      |
| 3          | 0.50 P             | Throttle signal 2      |
| 4          | 0.50 R/B           | Power                  |
| 5          | 1.25 Y/W           | Throttle motor power + |
| 6          |                    | NC                     |
| 7          |                    | NC                     |
| 8          | 1.25 V             | Throttle motor power - |

Stator Connector

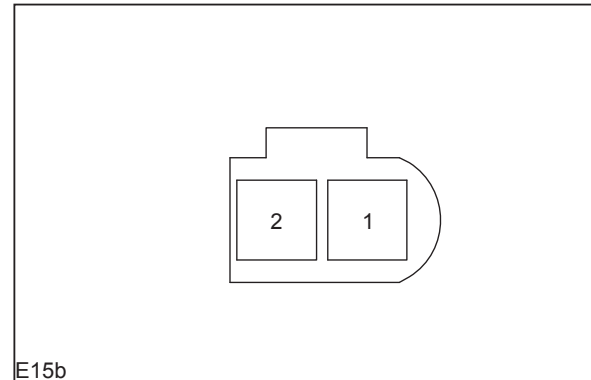


E14b

E14b Pin Definition

| Pin Number | Wire Width / Color | Function |
|------------|--------------------|----------|
| 1          | 2.00 Y/B           | Power    |

Engine Harness Connector (E--)  
Alternator Connector

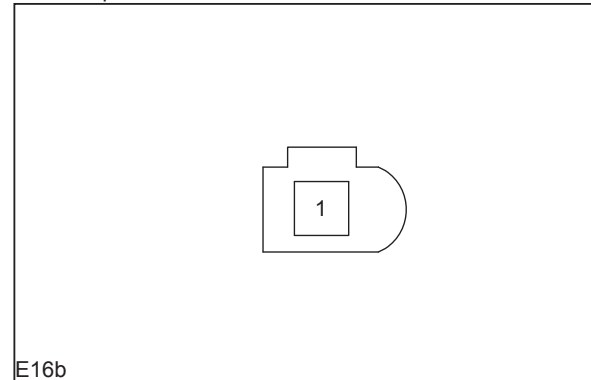


E15b

E15b Pin Definition

| Pin Number | Wire Width / Color | Function                  |
|------------|--------------------|---------------------------|
| 1          | 0.50 V             | Charging indicator signal |
| 2          | 0.50 BI            | Alternator power output   |

A/C Compressor Connector



E16b

E16b Pin Definition

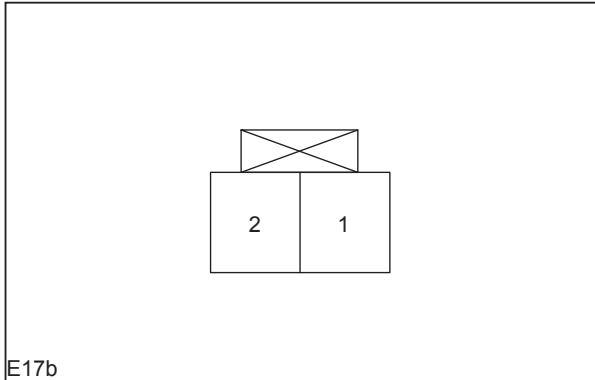
| Pin Number | Wire Width / Color | Function       |
|------------|--------------------|----------------|
| 1          | 0.85 R/G           | Control signal |

# Harness Connector View



Engine Harness Connector (E--)

Intake VVT Valve Connector

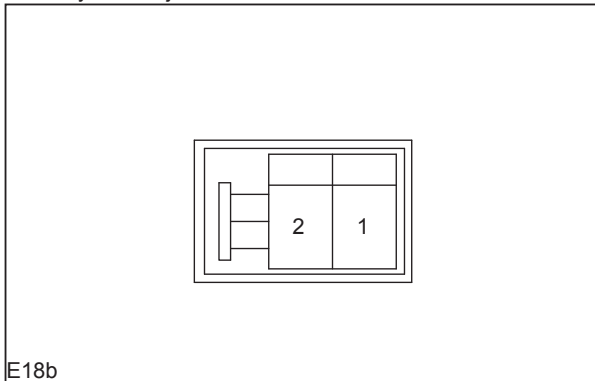


E17b

E17b Pin Definition

| Pin Number | Wire Width / Color | Function |
|------------|--------------------|----------|
| 1          | 0.85 B/R           | Power    |
| 2          | 0.85 Y/W           | Signal   |

NO.1 Cylinder Injector Connector



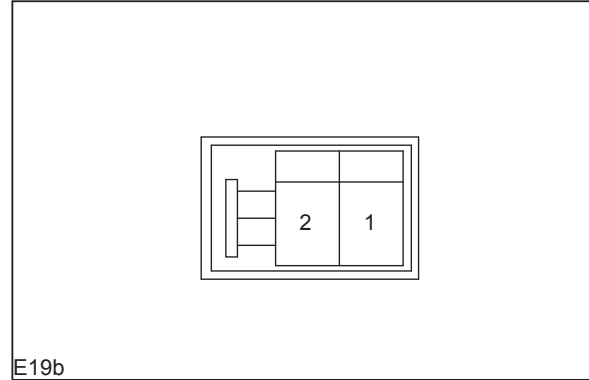
E18b

E18b Pin Definition

| Pin Number | Wire Width / Color | Function |
|------------|--------------------|----------|
| 1          | 0.85 B/R           | Power    |
| 2          | 0.85 P/Y           | Signal   |

Engine Harness Connector (E--)

NO.2 Cylinder Injector Connector

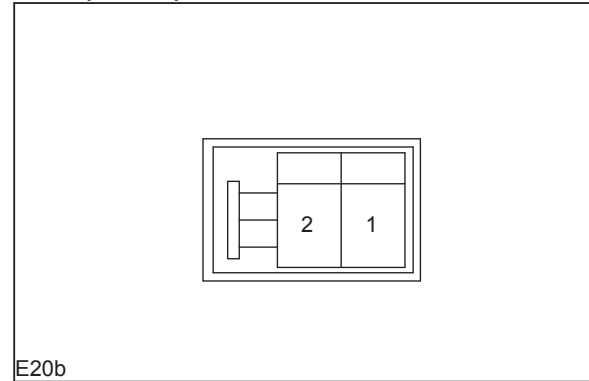


E19b

E19b Pin Definition

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

NO.3 Cylinder Injector Connector



E20b

E20b Pin Definition

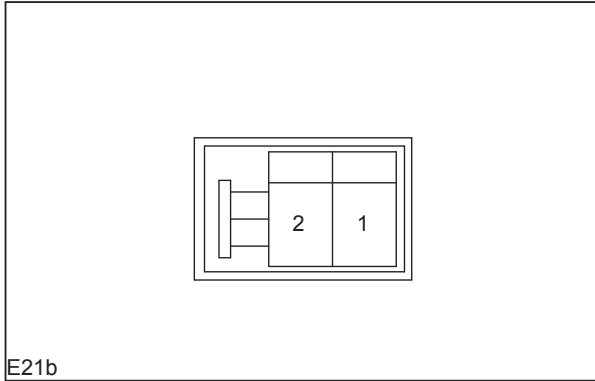
| Pin Number | Wire Width / Color | Function |
|------------|--------------------|----------|
| 1          | 0.85 B/R           | Power    |
| 2          | 0.85 P/Y           | Signal   |



# Harness Connector View

Engine Harness Connector (E--)

NO.4 Cylinder Injector Connector

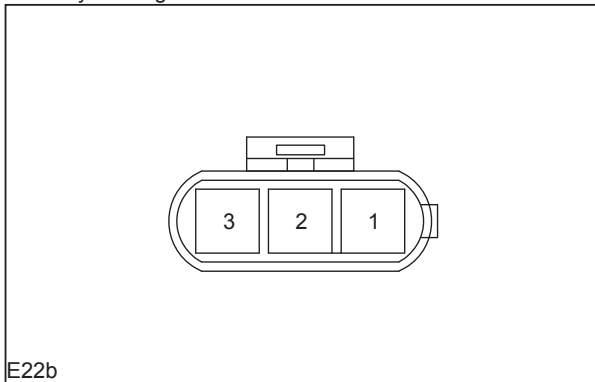


E21b

E21b Pin Definition

| Pin Number | Wire Width / Color | Function |
|------------|--------------------|----------|
| 1          | 0.85 BI/R          | Power    |
| 2          | 0.85 G/Y           | Signal   |

NO.1 Cylinder Ignition Coil Connector



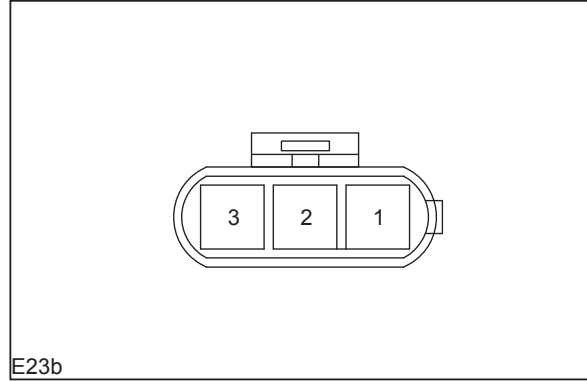
E22b

E22b Pin Definition

| Pin Number | Wire Width / Color | Function       |
|------------|--------------------|----------------|
| 1          | 0.85 W             | Control signal |
| 2          | 0.85 B/W           | Ground         |
| 3          | 0.85 BI/Gr         | Power          |

Engine Harness Connector (E--)

NO.2 Cylinder Ignition Coil Connector

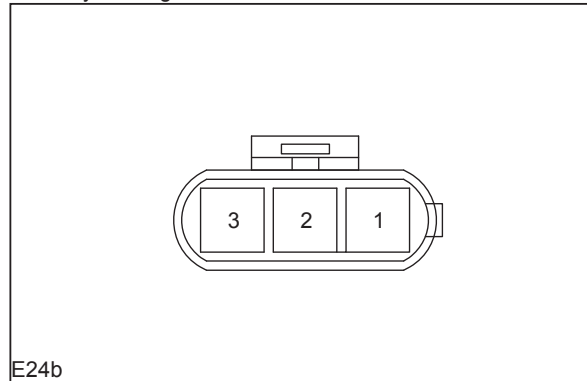


E23b

E23b Pin Definition

| Pin Number | Wire Width / Color | Function       |
|------------|--------------------|----------------|
| 1          | 0.85 Y             | Control signal |
| 2          | 0.85 B/W           | Ground         |
| 3          | 0.85 BI/Gr         | Power          |

NO.3 Cylinder Ignition Coil Connector



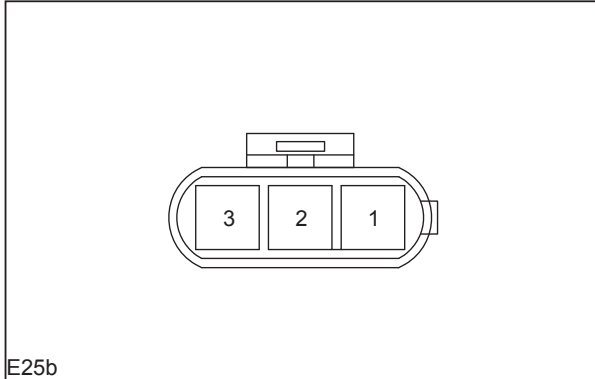
E24b

E24b Pin Definition

| Pin Number | Wire Width / Color | Function       |
|------------|--------------------|----------------|
| 1          | 0.85 P             | Control signal |
| 2          | 0.85 B/W           | Ground         |
| 3          | 0.85 BI/Gr         | Power          |

# Harness Connector View

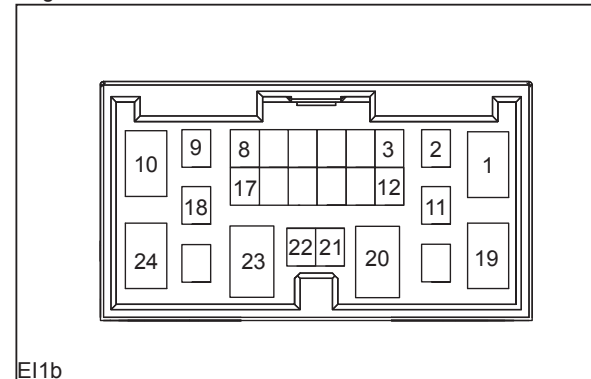
Engine Harness Connector (E--)  
NO.4 Cylinder Ignition Coil Connector



E25b Pin Definition

| Pin Number | Wire Width / Color | Function       |
|------------|--------------------|----------------|
| 1          | 0.85 G             | Control signal |
| 2          | 0.85 B/W           | Ground         |
| 3          | 0.85 BI/Gr         | Power          |

Engine Harness Connector (E--)  
Engine Harness to IP Harness Connector



E11b Pin Definition

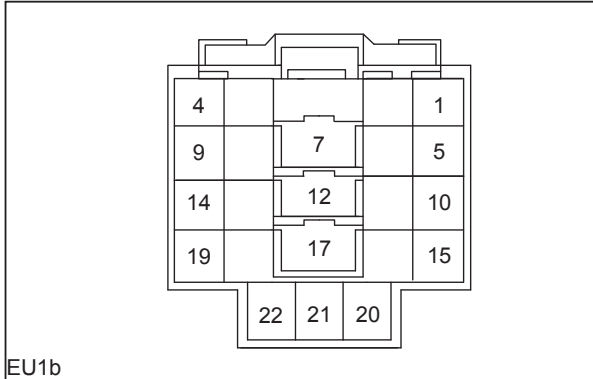
| Pin Number | Wire Width / Color | Function                           |
|------------|--------------------|------------------------------------|
| 1          |                    | NC                                 |
| 2          | 0.50 BI/B          | ECM PCAN-L                         |
| 3          | 0.50 Gr            | Rear oxygen sensor signal          |
| 4          | 0.50 P             | Rear oxygen sensor signal ground   |
| 5          |                    | NC                                 |
| 6          |                    | NC                                 |
| 7          |                    | NC                                 |
| 8          | 0.50 BI/R          | Brake switch signal (normally ON)  |
| 9          |                    | NC                                 |
| 10         |                    | NC                                 |
| 11         | 0.50 BI/W          | ECM PCAN-H                         |
| 12         | 0.50 P/G           | K-line                             |
| 13         | 0.50 V             | Charging indicator signal          |
| 14         | 0.50 Y/B           | Oil pressure switch signal         |
| 15         |                    | NC                                 |
| 16         |                    | NC                                 |
| 17         | 0.50 G/W           | Brake switch signal (normally OFF) |
| 18         | 0.85 G             | Rear oxygen sensor heating signal  |
| 19         |                    | NC                                 |
| 20         | 0.50 R             | ECU power(IG1)                     |
| 21         | 0.50 BI            | Cruise control switch signal       |
| 22         | 0.50 B/W           | Ground                             |
| 23         |                    | NC                                 |
| 24         |                    | NC                                 |



# Harness Connector View

Engine Harness Connector (E--)

Engine Harness to Engine Compartment Harness Connector



EU1b Pin Definition

| Pin Number | Wire Width / Color | Function                            |
|------------|--------------------|-------------------------------------|
| 1          | 0.50 O/Bl          | High speed fan relay control signal |
| 2          | 0.50 W             | A/C compressor relay control signal |
| 3          | 0.50 B/Br          | Fuel pump control                   |
| 4          | 0.85 Bl/G          | Low speed fan control signal        |
| 5          | 0.50 Y             | Main relay control signal           |
| 6          | 0.85 R/G           | A/C compressor power                |
| 7          | 2.00 Y/B           | Stator power                        |
| 8          | 0.50 R/G           | Front oxygen sensor power           |
| 9          |                    | NC                                  |
| 10         | 0.50 G             | A/C medium pressure signal input    |
| 11         | 0.50 R/G           | A/C switch signal                   |
| 12         | 1.25 Bl/R          | Injector power                      |
| 13         | 0.85 R/B           | ECU power                           |
| 14         |                    | NC                                  |
| 15         |                    | NC                                  |
| 16         |                    | NC                                  |
| 17         | 1.25 Bl/R          | Ignition coil power                 |
| 18         |                    | NC                                  |
| 19         |                    | NC                                  |
| 20         |                    | NC                                  |
| 21         |                    | NC                                  |
| 22         |                    | NC                                  |

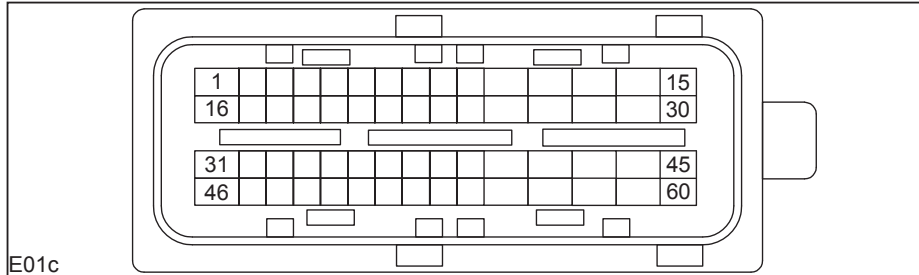
Engine Harness Connector (E--)



# Harness Connector View

## Engine Harness Connector (E--)

### ECU-1 Connector



E01c

### E01c Pin Definition

| Pin Number | Wire Width / Color | Function                                |
|------------|--------------------|---|
| 1          | 1.25 R/W           | NO.1 cylinder injector control signal + |
| 2          | 1.25 G/BI          | NO.3 cylinder injector control signal + |
| 3          | 0.50 Gr/G          | NO.4 cylinder ignition control signal   |
| 4          | 0.50 P/G           | NO.1 cylinder ignition control signal   |
| 5          | 0.50 BI/R          | NO.2 cylinder ignition control signal   |
| 6          | 0.50 B/W           | CMP/CKP power                           |
| 7          | 0.50 BI            | Ground                                  |
| 8          | 0.85 Br            | Ground                                  |
| 9          |                    | NC                                      |
| 10         | 0.50 BI/W          | CKP signal                              |
| 11         |                    | NC                                      |
| 12         |                    | NC                                      |
| 13         |                    | NC                                      |
| 14         | 0.85 W/G           | Canister solenoid valve signal          |
| 15         | 0.50 Y/B           | TPS motor -                             |
| 16         | 1.25 P/Y           | NO.4 cylinder injector control signal + |
| 17         | 1.25 O/B           | NO.2 cylinder injector control signal + |
| 18         | 0.50 P/B           | Power                                   |
| 19         | 0.50 O/Y           | Fuel rail pressure sensor power         |
| 20         | 0.50 Gr/BI         | NO.3 cylinder ignition control signal   |
| 21         | 0.50 BI/W          | Ground                                  |
| 22         | 0.50 W/Y           | Ground                                  |
| 23         |                    | NC                                      |
| 24         | 0.50 V/B           | Coolant temperature sensor signal       |
| 25         | 0.50 Gr/R          | Intake Pressure sensor signal           |
| 26         | 0.50 O/G           | TPS signal 2                            |
| 27         | 0.50 O/R           | TPS signal 1                            |
| 28         | 0.85 R/G           | Turbine Control Valve signal            |
| 29         | 0.85 BI/G          | Turbine Atmospheric Valve signal        |
| 30         | 0.50 Y/R           | TPS motor +                             |
| 31         | 0.50 Gr/V          | TPS power                               |

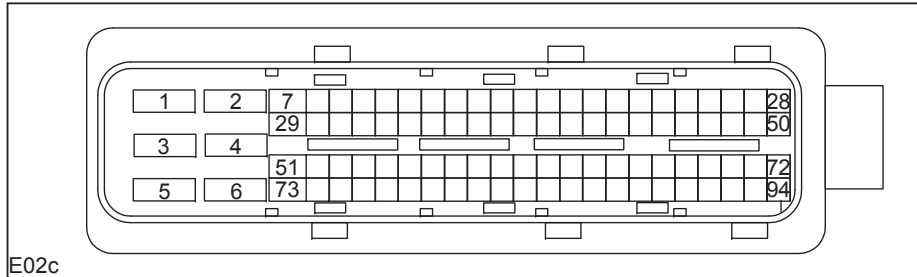
## Engine Harness Connector (E--)

|    |           |   |
|----|-----------|---|
| 32 | 0.50 R/W  | Power                                     |
| 33 | 0.50 Gr   | Ground                                    |
| 34 |           | NC  |
| 35 | 1.25 R/B  | NO.1 cylinder injector control signal -   |
| 36 | 0.50 R/V  | Fuel rail pressure sensor ground          |
| 37 | 0.50 V    | MAPS signal                               |
| 38 |           | NC  |
| 39 | 0.50 G    | KS signal-B                               |
| 40 | 0.50 BI   | KS signal-A                               |
| 41 | 0.50 O/BI | IATS Signal                               |
| 42 | 0.85 Gr/Y | Intake-CMP signal                         |
| 43 | 0.85 Br/R | Exhaust-CMP signal                        |
| 44 | 0.85 G/Y  | Exhaust VVT valve control                 |
| 45 |           | NC  |
| 46 | 1.25 B/R  | Fuel pressure regulating valve -          |
| 47 | 1.25 O/W  | NO.2 cylinder injector control signal-    |
| 48 | 1.25 B/O  | Fuel pressure regulating valve +          |
| 49 | 1.25 P/R  | NO.4 cylinder injector control signal-    |
| 50 | 1.25 G/O  | NO.3 cylinder injector control signal-    |
| 51 | 0.50 B/V  | Fuel rail pressure sensor signal          |
| 52 |           | NC  |
| 53 |           | NC  |
| 54 | 0.50 V/O  | Panel turnover position sensor signal     |
| 55 |           | NC  |
| 56 |           | NC  |
| 57 | 0.85 B/W  | Reverse turning bed solenoid valve signal |
| 58 | 0.85 Gr/O | Intake VVT valve control                  |
| 59 |           | NC  |
| 60 |           | NC  |

# Harness Connector View

Engine Harness Connector (E--)

ECU-2 Connector



E02c Pin Definition

| Pin Number | Wire Width / Color | Function                          |
|------------|--------------------|-----------------------------------|
| 1          | 2.00 B             | Ground                            |
| 2          | 2.00 R             | Power                             |
| 3          | 2.00 Bl/R          | Main relay power                  |
| 4          | 2.00 B             | Ground                            |
| 5          | 2.00 Bl/R          | Main relay power                  |
| 6          | 2.00 B             | Ground                            |
| 7          |                    | NC                                |
| 8          | 0.50 G             | A/C medium pressure switch signal |
| 9          |                    | NC                                |
| 10         | 0.50 R/G           | A/C switch request signal         |
| 11         | 0.50 Br/W          | Brake switch signal(Normally OFF) |
| 12         |                    | NC                                |
| 13         |                    | NC                                |
| 14         |                    | NC                                |
| 15         |                    | NC                                |
| 16         | 0.50 R/P           | APP power                         |
| 17         | 0.50 Bl/Y          | Front oxygen sensor signal        |
| 18         | 0.50 B/R           | Front oxygen sensor signal        |
| 19         |                    | NC                                |
| 20         | 0.50 O/Y           | Rear oxygen sensor signal         |
| 21         |                    | NC                                |
| 22         |                    | NC                                |
| 23         |                    | NC                                |
| 24         |                    | NC                                |
| 25         | 0.50 W/G           | Ground                            |
| 26         | 0.50 W/Y           | Ground                            |
| 27         |                    | NC                                |
| 28         |                    | NC                                |
| 29         |                    | NC                                |
| 30         |                    | NC                                |
| 31         |                    | NC                                |

Engine Harness Connector (E--)

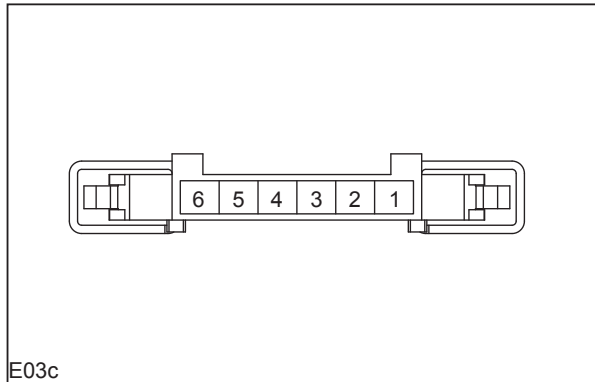
|    |           |  |
|----|-----------|--|
| 32 |           | NC   |
| 33 |           | NC   |
| 34 |           | NC   |
| 35 | 0.50 R/Y  | APP signal 1                                   |
| 36 |           | NC   |
| 37 |           | NC   |
| 38 |           | NC   |
| 39 |           | NC   |
| 40 | 0.50 G/P  | Front oxygen sensor signal                     |
| 41 | 0.50 G/Bl | Power  |
| 42 | 0.50 P    | Brake switch signal(Normally ON)               |
| 43 |           | NC   |
| 44 |           | NC   |
| 45 | 0.50 O    | Cruise control switch signal                   |
| 46 |           | NC   |
| 47 | 0.50 V/W  | Ground   |
| 48 |           | NC   |
| 49 | 0.50 G/Bl | Ground   |
| 50 |           | NC   |
| 51 | 0.50 Br/W | Front oxygen sensor heating signal             |
| 52 | 0.50 V    | Electronic water pump relay ECU control signal |
| 53 |           | NC   |
| 54 | 0.50 O/V  | APP signal 2                                   |
| 55 |           | NC   |
| 56 | 0.50 Gr/Y | Fuel pump control                              |
| 57 |           | NC   |
| 58 |           | NC   |
| 59 |           | NC   |
| 60 |           | NC   |
| 61 |           | NC   |
| 62 |           | NC   |
| 63 |           | NC   |
| 64 |           | NC   |
| 65 | 0.50 R/B  | APP power                                      |
| 66 | 0.50 R/G  | IG1 power                                      |
| 67 |           | NC   |
| 68 |           | NC   |
| 69 |           | NC   |
| 70 | 0.50 Br/G | PCAN-H   |
| 71 | 0.50 Br/Y | PCAN-L   |
| 72 |           | NC   |
| 73 | 0.50 O/V  | Rear oxygen sensor heating signal              |
| 74 |           | NC   |
| 75 |           | NC   |
| 76 | 0.50 Y    | Main relay control                             |
| 77 |           | NC   |

# Harness Connector View

## Engine Harness Connector (E--)

| Pin Number | Wire Width / Color | Function                            |
|------------|--------------------|-------------------------------------|
| 78         |                    | NC                                  |
| 79         |                    | NC                                  |
| 80         |                    | NC                                  |
| 81         |                    | NC                                  |
| 82         |                    | NC                                  |
| 83         | 0.50 Gr/BI         | A/C compressor relay control signal |
| 84         | 0.50 Gr/O          | Low speed fan relay control signal  |
| 85         | 0.50 Gr/V          | High speed fan relay control signal |
| 86         |                    | NC                                  |
| 87         |                    | NC                                  |
| 88         |                    | NC                                  |
| 89         |                    | NC                                  |
| 90         |                    | NC                                  |
| 91         |                    | NC                                  |
| 92         |                    | NC                                  |
| 93         |                    | NC                                  |
| 94         |                    | NC                                  |

## Accelerator Pedal Position Sensor Connector



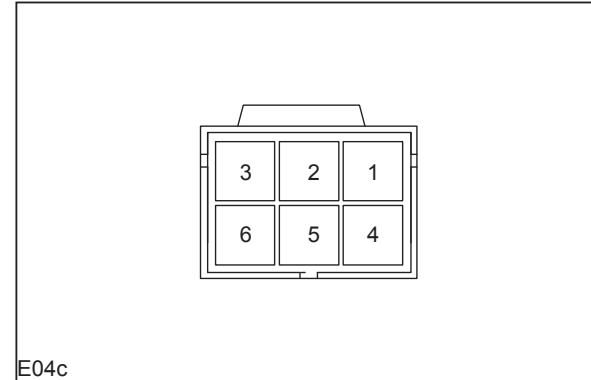
E03c

### E03c Pin Definition

| Pin Number | Wire Width / Color | Function            |
|------------|--------------------|---------------------|
| 1          | 0.50 O/V           | APP sensor 2 signal |
| 2          | 0.50 W/G           | APP sensor 2 ground |
| 3          | 0.50 R/Y           | APP sensor 1 signal |
| 4          | 0.50 W/Y           | APP sensor 1 ground |
| 5          | 0.50 R/B           | APP sensor 1 power  |
| 6          | 0.50 R/P           | APP sensor 2 power  |

## Engine Harness Connector (E--)

### Front Oxygen Sensor Connector

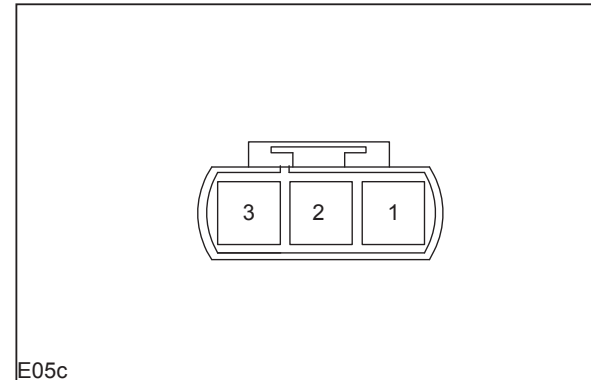


E04c

### E04c Pin Definition

| Pin Number | Wire Width / Color | Function       |
|------------|--------------------|----------------|
| 1          | 0.50 Br/W          | Heating signal |
| 2          | 0.50 G/P           | Signal         |
| 3          | 0.50 G/BI          | Power          |
| 4          | 0.85 BI/Y          | Power          |
| 5          | 0.50 B/R           | Signal         |
| 6          | 0.50 BI/Y          | Power          |

## Intake Camshaft Position Sensor Connector



E05c

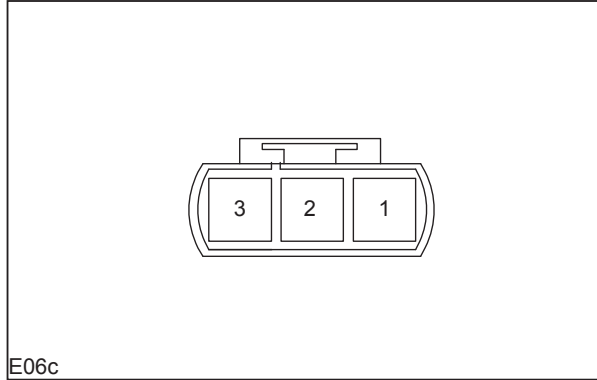
### E05c Pin Definition

| Pin Number | Wire Width / Color | Function |
|------------|--------------------|----------|
| 1          | 0.50 B/W           | Power    |
| 2          | 0.85 Br            | Ground   |
| 3          | 0.85 Gr/Y          | Signal   |

# Harness Connector View



Engine Harness Connector (E--)  
Exhaust Camshaft Position Sensor Connector

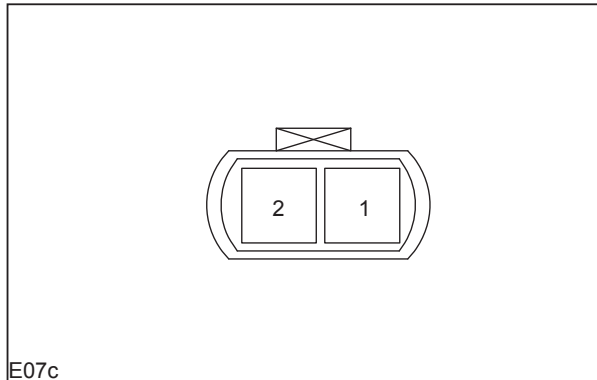


E06c

E06c Pin Definition

| Pin Number | Wire Width / Color | Function |
|------------|--------------------|----------|
| 1          | 0.50 B/W           | Power    |
| 2          | 0.85 Br            | Ground   |
| 3          | 0.85 Br/R          | Signal   |

Exhaust VVT Valve Connector

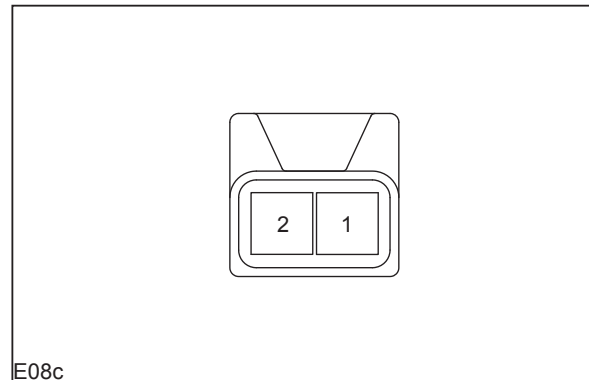


E07c

E07c Pin Definition

| Pin Number | Wire Width / Color | Function |
|------------|--------------------|----------|
| 1          | 0.85 B/R           | Power    |
| 2          | 0.85 G/Y           | Signal   |

Engine Harness Connector (E--)  
Turbo Valve Connector

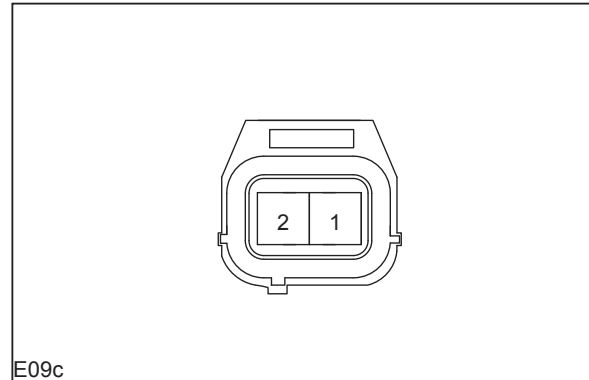


E08c

E08c Pin Definition

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

Turbine Pressure Relief Valve Connector



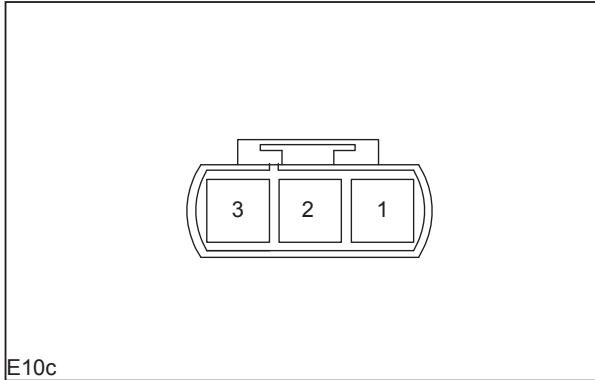
E09c

E09c Pin Definition

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

# Harness Connector View

Engine Harness Connector (E--)  
Crankshaft Position Sensor Connector

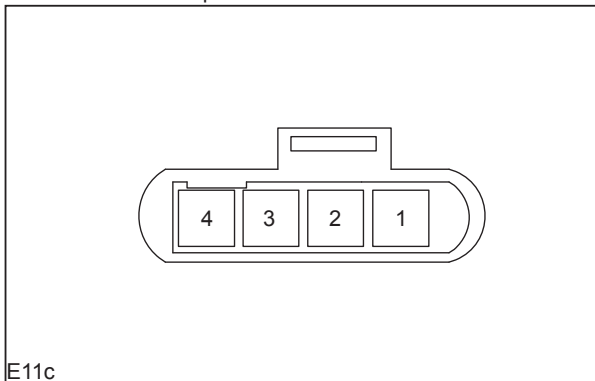


E10c

E10c Pin Definition

| Pin Number | Wire Width / Color | Function |
|------------|--------------------|----------|
| 1          | 0.50 B/W           | Power    |
| 2          | 0.50 W/Y           | Ground   |
| 3          | 0.50 BI/W          | Signal   |

Turbo Pressure/Temperature Sensor Connector

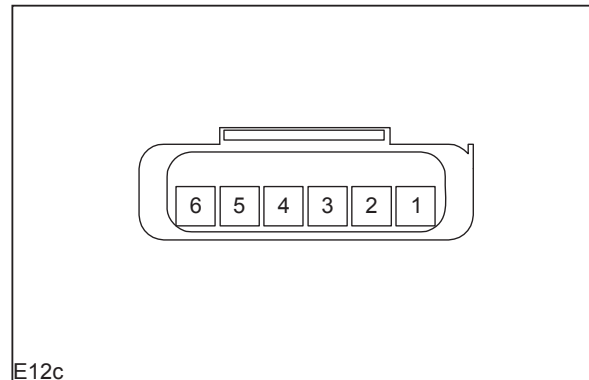


E11c

E11c Pin Definition

| Pin Number | Wire Width / Color | Function           |
|------------|--------------------|--------------------|
| 1          | 0.50 V             | Pressure signal    |
| 2          | 0.50 P/B           | Power              |
| 3          | 0.50 O/BI          | Temperature signal |
| 4          | 0.50 BI/W          | Ground             |

Engine Harness Connector (E--)  
Throttle Position Sensor Connector

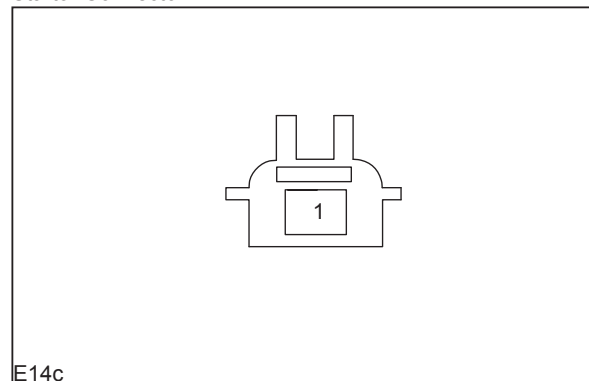


E12c

E12c Pin Definition

| Pin Number | Wire Width / Color | Function     |
|------------|--------------------|--------------|
| 1          | 0.85 Y/R           | Motor +      |
| 2          | 0.85 Y/B           | Motor -      |
| 3          | 0.85 O/G           | TPS Signal 2 |
| 4          | 0.85 BI            | Ground       |
| 5          | 0.85 Gr/V          | Power        |
| 6          | 0.85 O/R           | TPS Signal 1 |

Starter Connector



E14c

E14c Pin Definition

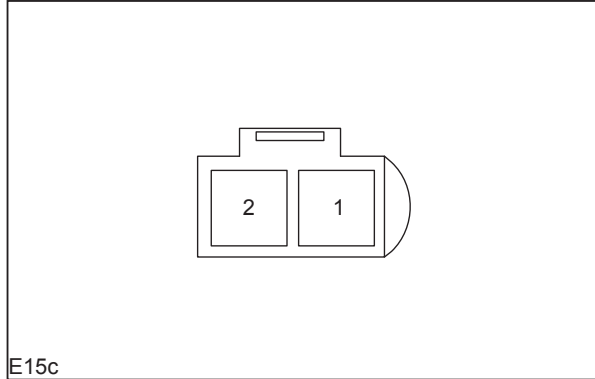
| Pin Number | Wire Width / Color | Function |
|------------|--------------------|----------|
| 1          | 2.00 B/Y           | Power    |



# Harness Connector View

## Engine Harness Connector (E--)

### Alternator Connector

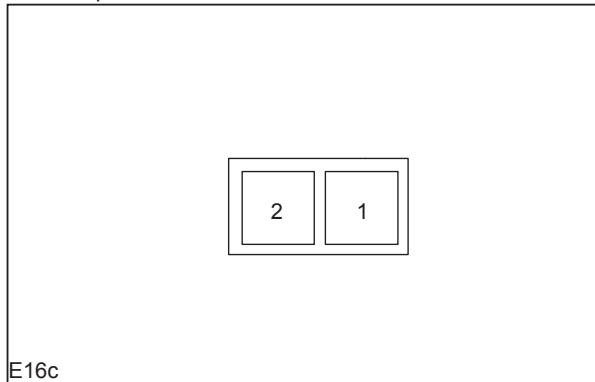


E15c

#### E15c Pin Definition

| Pin Number | Wire Width / Color | Function                  |
|------------|--------------------|---------------------------|
| 1          | 0.50 R/V           | Charging indicator signal |
| 2          |                    | NC                        |

### A/C Compressor Control Valve Connector



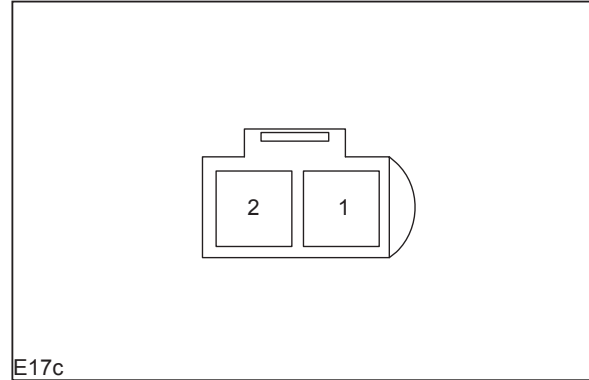
E16c

#### E16c Pin Definition

| Pin Number | Wire Width / Color | Function |
|------------|--------------------|----------|
| 1          | 0.85 R/Y           | Power -  |
| 2          | 0.85 R/W           | Power +  |

## Engine Harness Connector (E--)

### A/C Compressor Clutch Connector

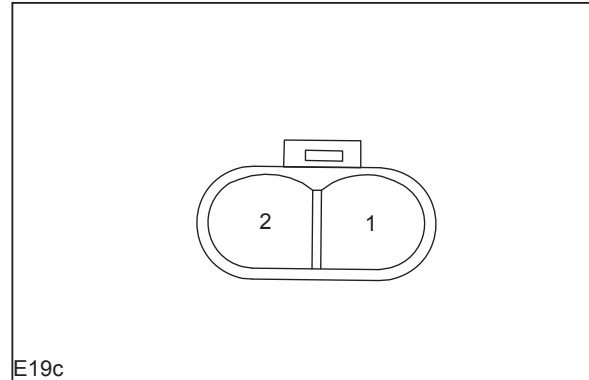


E17c

#### E17c Pin Definition

| Pin Number | Wire Width / Color | Function |
|------------|--------------------|----------|
| 1          | 0.85 B             | Power -  |
| 2          | 0.85 R/V           | Power +  |

### Canister Solenoid Valve Connector



E19c

#### E19c Pin Definition

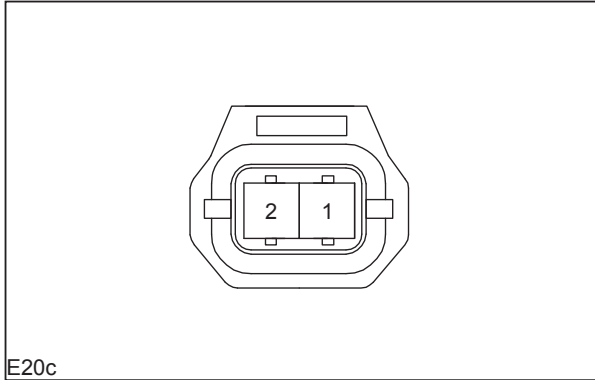
| Pin Number | Wire Width / Color | Function |
|------------|--------------------|----------|
| 1          | 0.85 BI/R          | Power    |
| 2          | 0.85 W/G           | Signal   |

# Harness Connector View



Engine Harness Connector (E--)

High Pressure Oil Pump Connector

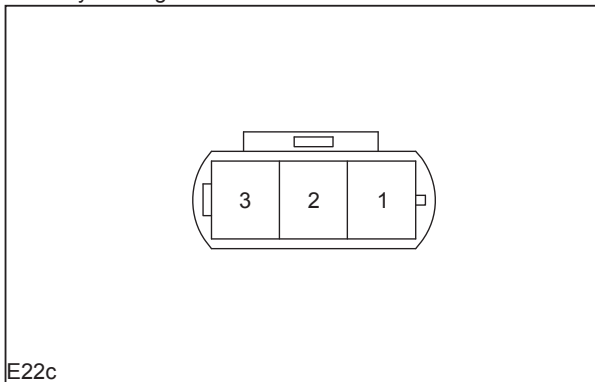


E20c

E20c Pin Definition

| Pin Number | Wire Width / Color | Function |
|------------|--------------------|----------|
| 1          | 1.25 B/O           | Power +  |
| 2          | 1.25 B/R           | Power -  |

NO.1 Cylinder Ignition Coil Connector



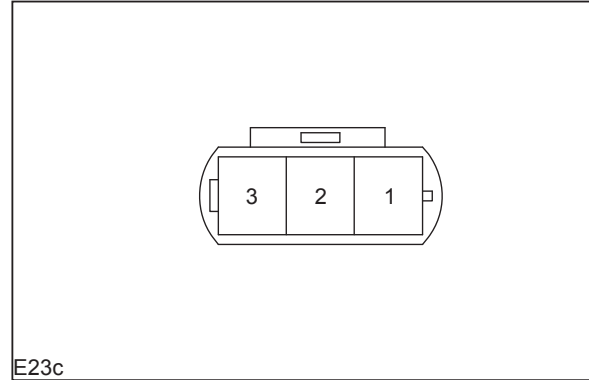
E22c

E22c Pin Definition

| Pin Number | Wire Width / Color | Function       |
|------------|--------------------|----------------|
| 1          | 0.85 R/G           | Power          |
| 2          | 0.85 B             | Ground         |
| 3          | 0.85 P/G           | Control signal |

Engine Harness Connector (E--)

NO.2 Cylinder Ignition Coil Connector

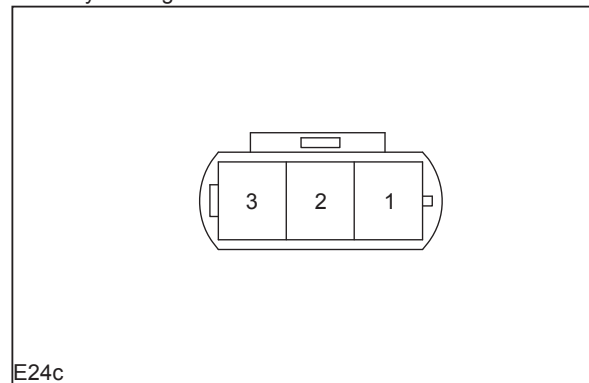


E23c

E23c Pin Definition

| Pin Number | Wire Width / Color | Function       |
|------------|--------------------|----------------|
| 1          | 0.85 R/G           | Power          |
| 2          | 0.85 B             | Ground         |
| 3          | 0.85 Bl/R          | Control signal |

NO.3 Cylinder Ignition Coil Connector



E24c

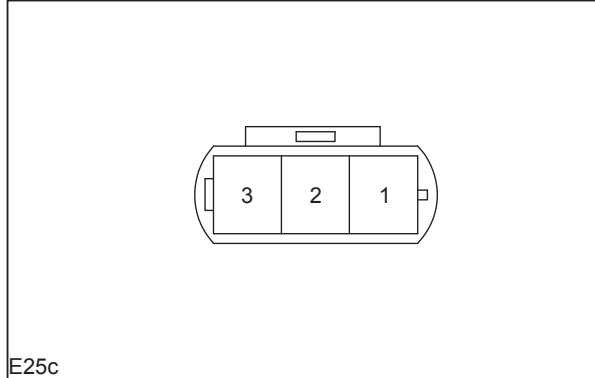
E24c Pin Definition

| Pin Number | Wire Width / Color | Function       |
|------------|--------------------|----------------|
| 1          | 0.85 R/G           | Power          |
| 2          | 0.85 B             | Ground         |
| 3          | 0.85 Gr/Bl         | Control signal |

# Harness Connector View

## Engine Harness Connector (E--)

### NO.4 Cylinder Ignition Coil Connector

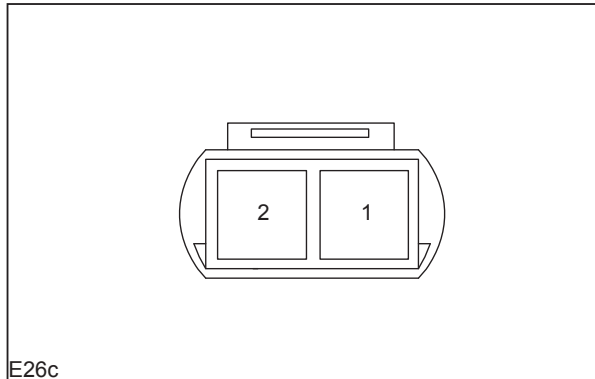


E25c

#### E25c Pin Definition

| Pin Number | Wire Width / Color | Function       |
|------------|--------------------|----------------|
| 1          | 0.85 R/G           | Power          |
| 2          | 0.85 B             | Ground         |
| 3          | 0.85 Gr/G          | Control signal |

### Knock Sensor Connector



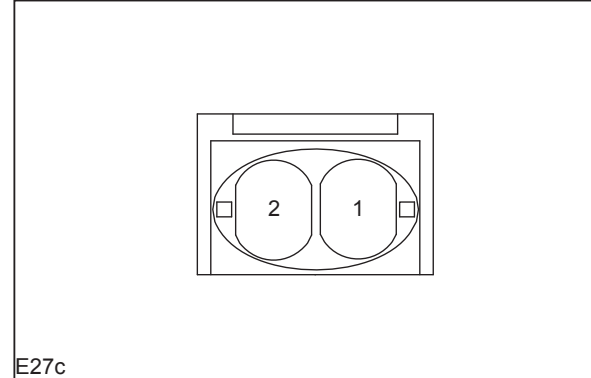
E26c

#### E26c Pin Definition

| Pin Number | Wire Width / Color | Function |
|------------|--------------------|----------|
| 1          | 0.50 BI            | Signal-A |
| 2          | 0.50 G             | Signal-B |

## Engine Harness Connector (E--)

### Electric Water Pump Connector

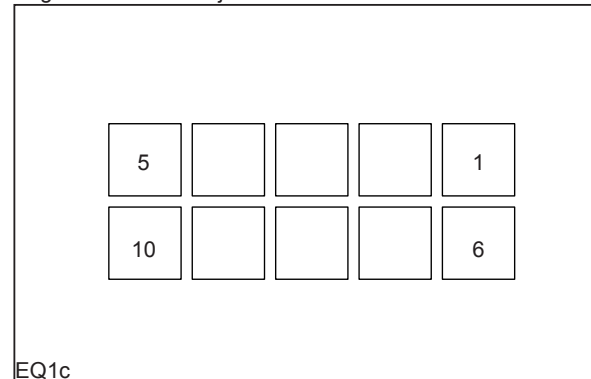


E27c

#### E27c Pin Definition

| Pin Number | Wire Width / Color | Function |
|------------|--------------------|----------|
| 1          | 1.25 B             | Power -  |
| 2          | 1.25 BI/R          | Power +  |

### Engine Harness to Injector Harness Connector



EQ1c

#### EQ1c Pin Definition

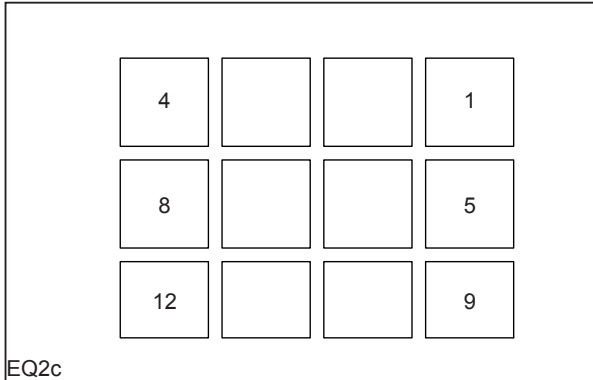
| Pin Number | Wire Width / Color | Function                                  |
|------------|--------------------|---|
| 1          | 1.25 R/W           | NO.1 cylinder injector control signal +   |
| 2          | 1.25 O/B           | NO.2 cylinder injector control signal +   |
| 3          | 1.25 G/BI          | NO.3 cylinder injector control signal +   |
| 4          | 1.25 P/Y           | NO.4 cylinder injector control signal +   |
| 5          | 0.85 BI/R          | Power                                     |
| 6          | 1.25 R/B           | NO.1 cylinder injector control signal -   |
| 7          | 1.25 O/W           | NO.2 cylinder injector control signal -   |
| 8          | 1.25 G/O           | NO.3 cylinder injector control signal -   |
| 9          | 1.25 P/R           | NO.4 cylinder injector control signal -   |
| 10         | 0.85 B/W           | Reverse turning bed solenoid valve signal |



# Harness Connector View

Engine Harness Connector (E--)

Engine Harness to Injector Harness Connector



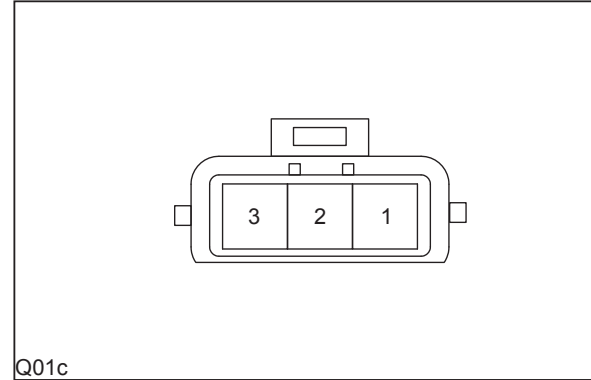
EQ2c

EQ2c Pin Definition

| Pin Number | Wire Width / Color | Function                              |
|------------|--------------------|---------------------------------------|
| 1          | 0.50 V/O           | Panel turnover position sensor signal |
| 2          | 0.85 Gr/O          | Intake VVT valve signal               |
| 3          | 0.50 Gr/R          | Intake Pressure sensor signal         |
| 4          | 0.50 R/V           | Fuel rail pressure sensor ground      |
| 5          | 0.50 V/B           | Fuel rail pressure sensor power       |
| 6          | 0.85 Bl/R          | Power                                 |
| 7          | 0.50 Gr            | Signal ground                         |
| 8          | 0.50 B/V           | Fuel rail pressure sensor signal      |
| 9          |                    | NC                                    |
| 10         | 0.50 V/Y           | Oil pressure sensor signal            |
| 11         | 0.50 R/W           | Power                                 |
| 12         | 0.50 O/Y           | Fuel rail pressure sensor power       |

Engine Harness Connector (E--)

Intake Pressure Sensor Connector

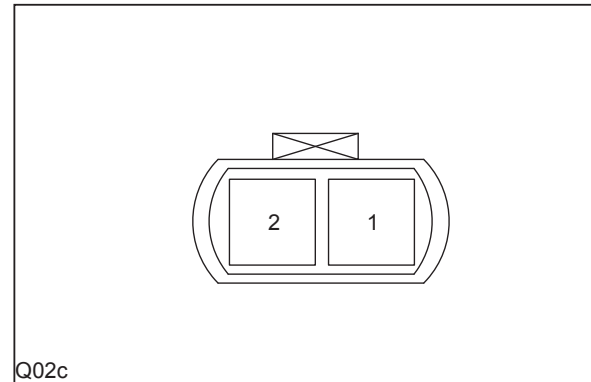


Q01c

Q01c Pin Definition

| Pin Number | Wire Width / Color | Function |
|------------|--------------------|----------|
| 1          | 0.50 Gr/R          | Signal   |
| 2          | 0.50 Gr            | Ground   |
| 3          | 0.50 R/W           | Power    |

Intake VVT Valve Connector



Q02c

Q02c Pin Definition

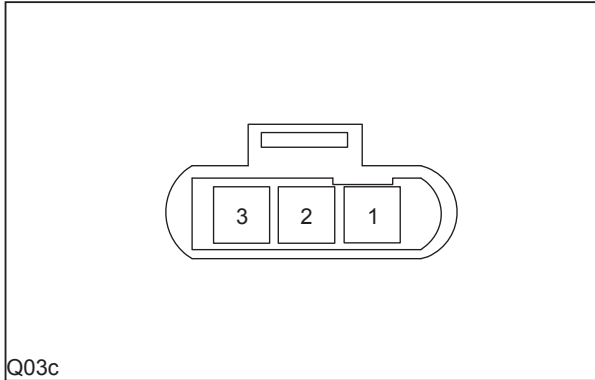
| Pin Number | Wire Width / Color | Function |
|------------|--------------------|----------|
| 1          | 0.85 Bl/R          | Power    |
| 2          | 0.85 Gr/O          | Signal   |



# Harness Connector View

Engine Harness Connector (E--)

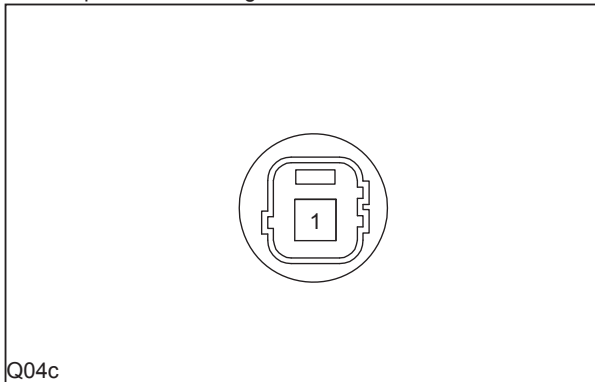
Panel Turnover Position Sensor Connector



Q03c Pin Definition

| Pin Number | Wire Width / Color | Function |
|------------|--------------------|----------|
| 1          | 0.50 R/W           | 5V power |
| 2          | 0.50 V/O           | Signal   |
| 3          | 0.50 Gr            | Ground   |

Low Oil pressure Warning Connector

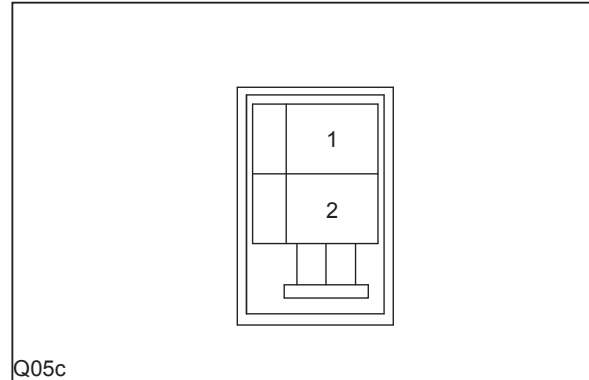


Q04c Pin Definition

| Pin Number | Wire Width / Color | Function |
|------------|--------------------|----------|
| 1          | 0.50 V/Y           | Signal   |

Engine Harness Connector (E--)

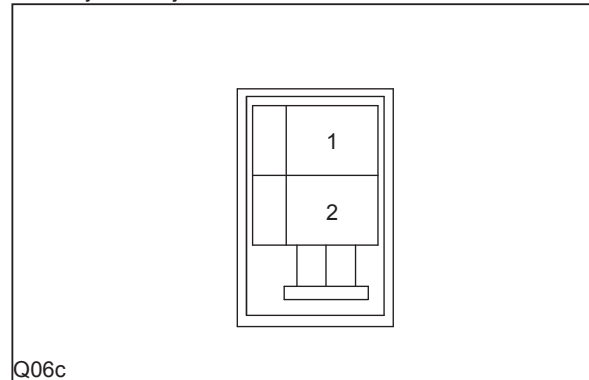
NO.1 Cylinder Injector Connector



Q05c Pin Definition

| Pin Number | Wire Width / Color | Function |
|------------|--------------------|----------|
| 1          | 1.25 R/W           | Signal + |
| 2          | 1.25 R/B           | Signal - |

NO.2 Cylinder Injector Connector



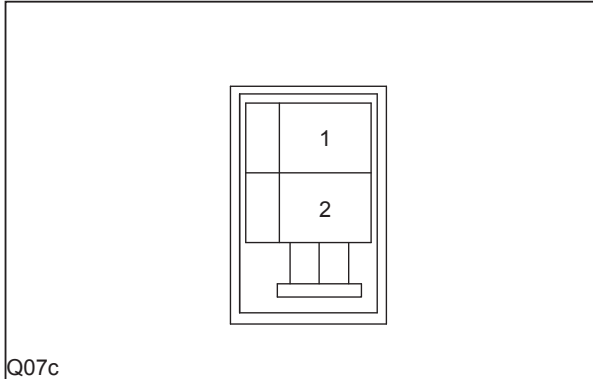
Q06c Pin Definition

| Pin Number | Wire Width / Color | Function |
|------------|--------------------|----------|
| 1          | 1.25 O/B           | Power +  |
| 2          | 1.25 O/W           | Power -  |

# Harness Connector View

Engine Harness Connector (E--)

NO.3 Cylinder Injector Connector

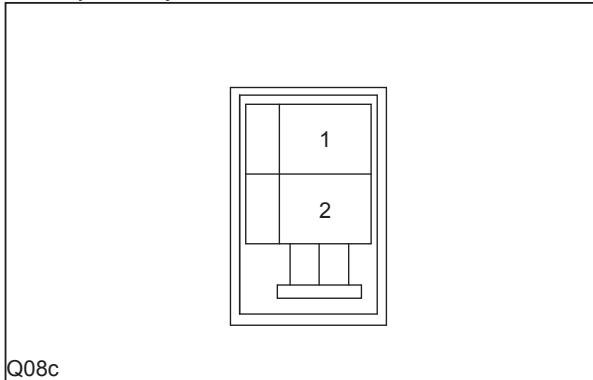


Q07c

Q07c Pin Definition

| Pin Number | Wire Width / Color | Function |
|------------|--------------------|----------|
| 1          | 1.25 G/Bl          | Power +  |
| 2          | 1.25 G/O           | Power -  |

NO.4 Cylinder Injector Connector



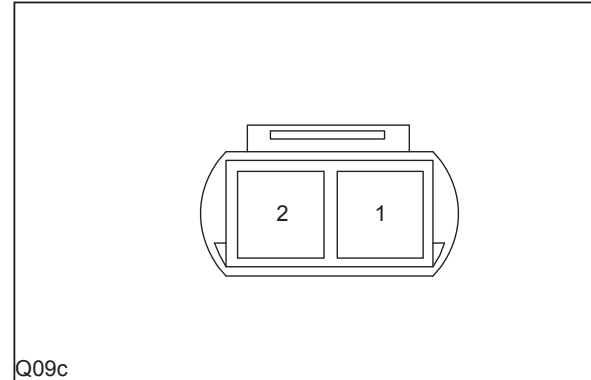
Q08c

Q08c Pin Definition

| Pin Number | Wire Width / Color | Function |
|------------|--------------------|----------|
| 1          | 1.25 P/Y           | Power +  |
| 2          | 1.25 P/R           | Power -  |

Engine Harness Connector (E--)

Coolant temperature Sensor Connector

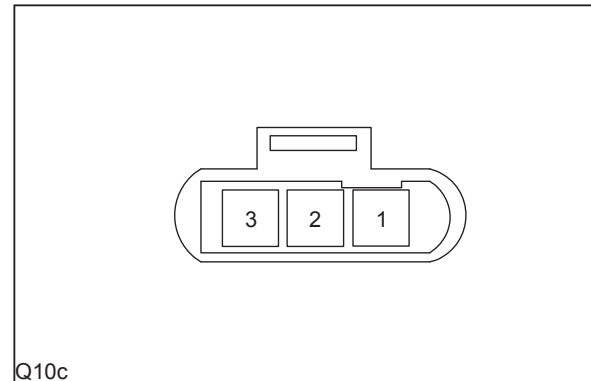


Q09c

Q09c Pin Definition

| Pin Number | Wire Width / Color | Function |
|------------|--------------------|----------|
| 1          | 0.50 Gr            | Ground   |
| 2          | 0.50 V/B           | Signal   |

Fuel Rail Pressure Sensor Connector



Q10c

Q10c Pin Definition

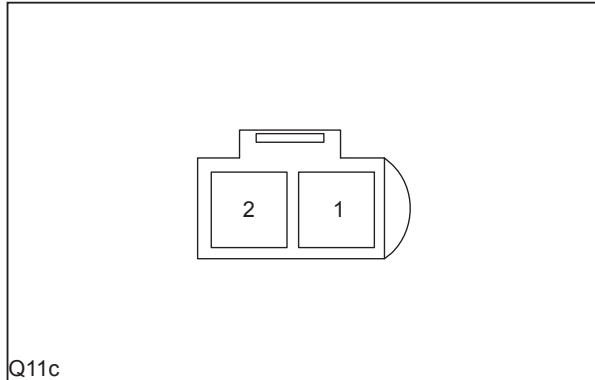
| Pin Number | Wire Width / Color | Function |
|------------|--------------------|----------|
| 1          | 0.50 R/V           | Ground   |
| 2          | 0.50 B/V           | Signal   |
| 3          | 0.50 O/Y           | Power    |



# Harness Connector View

Engine Harness Connector (E--)

Reverse Turning Bed Solenoid Valve Connector

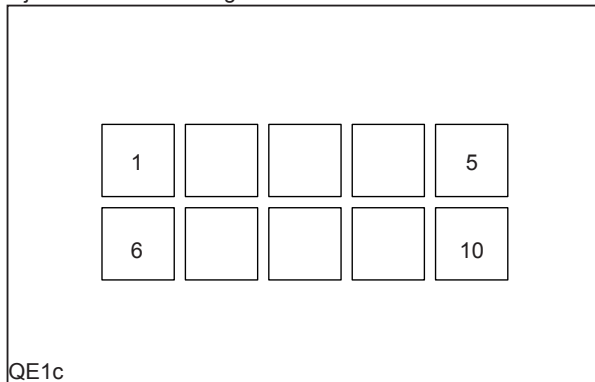


Q11c

Q11c Pin Definition

| Pin Number | Wire Width / Color | Function |
|------------|--------------------|----------|
| 1          | 0.85 BI/R          | Power    |
| 2          | 0.85 B/W           | Signal   |

Injector Harness to Engine Harness Connector



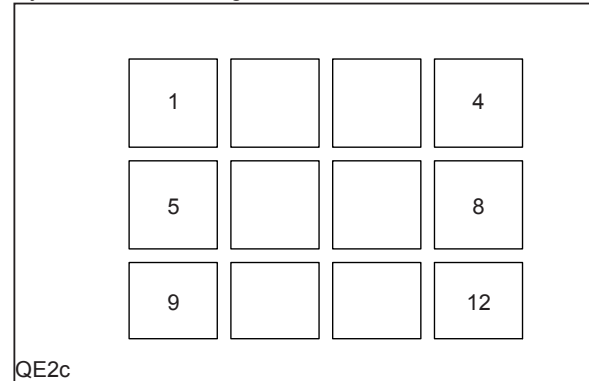
QE1c

QE1c Pin Definition

| Pin Number | Wire Width / Color | Function                                  |
|------------|--------------------|---|
| 1          | 1.25 R/W           | NO.1 cylinder injector control signal +   |
| 2          | 1.25 O/B           | NO.2 cylinder injector control signal +   |
| 3          | 1.25 G/BI          | NO.3 cylinder injector control signal +   |
| 4          | 1.25 P/Y           | NO.4 cylinder injector control signal +   |
| 5          | 0.85 BI/R          | Power                                     |
| 6          | 1.25 R/B           | NO.1 cylinder injector control signal -   |
| 7          | 1.25 O/W           | NO.2 cylinder injector control signal -   |
| 8          | 1.25 G/O           | NO.3 cylinder injector control signal -   |
| 9          | 1.25 P/R           | NO.4 cylinder injector control signal -   |
| 10         | 0.85 B/W           | Reverse turning bed solenoid valve signal |

Engine Harness Connector (E--)

Injector Harness to Engine Harness Connector



QE2c

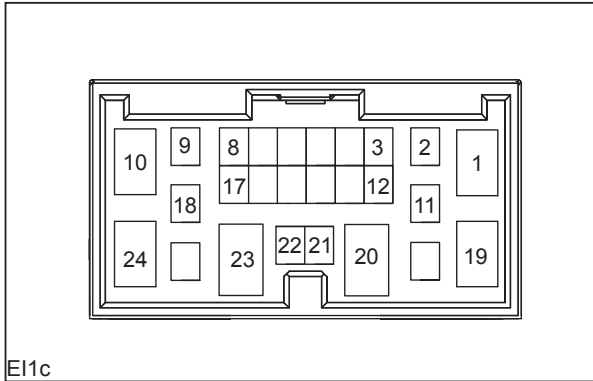
QE2c Pin Definition

| Pin Number | Wire Width / Color | Function                              |
|------------|--------------------|---------------------------------------|
| 1          | 0.50 V/O           | Panel turnover position sensor signal |
| 2          | 0.85 Gr/O          | Intake VVT valve signal               |
| 3          | 0.50 Gr/R          | Intake Pressure sensor signal         |
| 4          | 0.50 R/V           | Fuel rail pressure sensor ground      |
| 5          | 0.50 V/B           | Fuel rail pressure sensor power       |
| 6          | 0.85 BI/R          | Power                                 |
| 7          | 0.50 Gr            | Signal ground                         |
| 8          | 0.50 B/V           | Fuel rail pressure sensor signal      |
| 9          |                    | NC                                    |
| 10         | 0.50 V/Y           | Oil pressure sensor signal            |
| 11         | 0.50 R/W           | Power                                 |
| 12         | 0.50 O/Y           | Fuel rail pressure sensor power       |



# Harness Connector View

Engine Harness Connector (E--)  
Engine Harness to I/P Harness Connector

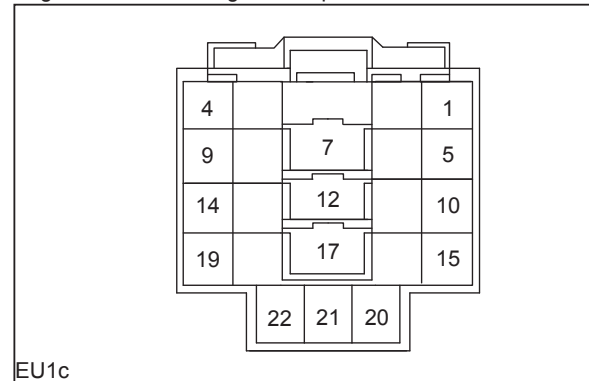


E11c

E11c Pin Definition

| Pin Number | Wire Width / Color | Function                           |
|------------|--------------------|------------------------------------|
| 1          |                    | NC                                 |
| 2          | 0.50 Br/Y          | PCAN-L                             |
| 3          | 0.50 O/Y           | Rear oxygen sensor signal          |
| 4          | 0.50 G/Bl          | Ground                             |
| 5          |                    | NC                                 |
| 6          |                    | NC                                 |
| 7          |                    | NC                                 |
| 8          | 0.50 P             | Brake switch signal(Normally ON)   |
| 9          |                    | NC                                 |
| 10         | 0.85 R/Y           | Compressor Control Valve +         |
| 11         | 0.50 Br/G          | PCAN-H                             |
| 12         |                    | NC                                 |
| 13         | 0.50 R/V           | Charging indicator signal          |
| 14         | 0.50 V/Y           | Oil pressure switch signal(low)    |
| 15         |                    | NC                                 |
| 16         | 0.50 Br/Y          | Oil pressure switch signal(high)   |
| 17         | 0.50 Br/W          | Brake switch signal(Normally OFF)  |
| 18         | 0.50 O/V           | Rear oxygen heating control signal |
| 19         |                    | NC                                 |
| 20         | 0.50 R/G           | IG1 power                          |
| 21         | 0.50 V/W           | Ground                             |
| 22         | 0.50 O             | Cruise control switch signal       |
| 23         |                    | NC                                 |
| 24         | 0.85 R/W           | A/C compressor Control Valve -     |

Engine Harness Connector (E--)  
Engine Harness to Engine Compartment Harness Connector



EU1c

EU1c Pin Definition

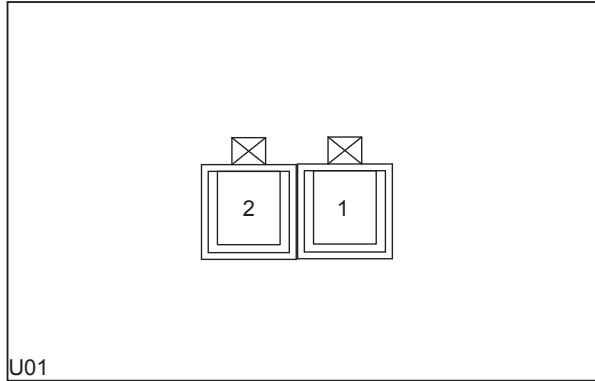
| Pin Number | Wire Width / Color | Function                             |
|------------|--------------------|--------------------------------------|
| 1          | 0.50 Gr/V          | High speed fan control signal        |
| 2          | 0.50 Gr/Bl         | Compressor relay control signal      |
| 3          | 0.50 Gr/Y          | Fuel pump control                    |
| 4          | 0.50 Gr/O          | Low speed fan control signal         |
| 5          | 0.50 Y             | Main relay control signal            |
| 6          | 0.85 R/V           | A/C compressor relay output power    |
| 7          | 2.00 B/Y           | Stator power                         |
| 8          | 0.85 Bl/Y          | Front oxygen sensor power            |
| 9          |                    | NC                                   |
| 10         | 0.50 G             | A/C medium switch signal input       |
| 11         | 0.50 R/G           | A/C switch signal input              |
| 12         | 2.00 Bl/R          | Main relay power                     |
| 13         | 2.00 R             | Battery power                        |
| 14         |                    | NC                                   |
| 15         | 1.25 B             | Ground                               |
| 16         |                    | NC                                   |
| 17         | 2.00 R/G           | Ignition coil power                  |
| 18         | 1.25 Bl/R          | Electronics water pump power         |
| 19         | 0.50 V             | Electronics water pump relay control |
| 20         |                    | NC                                   |
| 21         |                    | NC                                   |
| 22         |                    | NC                                   |



# Harness Connector View

## Engine Compartment Harness Connector (U--)

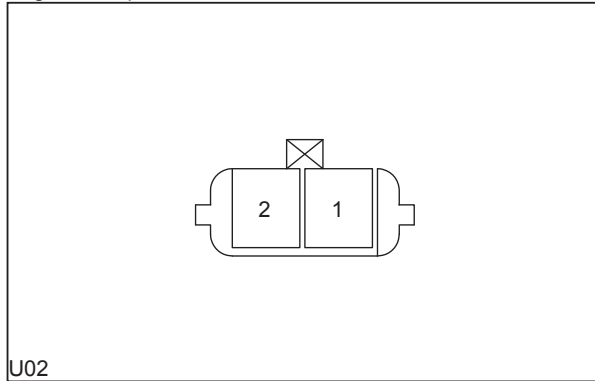
### Bass Horn Connector



#### U01 Pin Definition

| Pin Number | Wire Width / Color | Function |
|------------|--------------------|----------|
| 1          | 1.25 G             | Power    |
| 2          | 1.25 B             | Ground   |

### Engine Compartment Cover Switch Connector

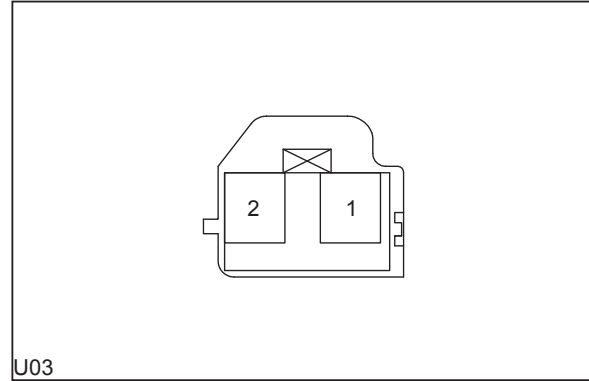


#### U02 Pin Definition

| Pin Number | Wire Width / Color | Function |
|------------|--------------------|----------|
| 1          | 0.50 B             | Ground   |
| 2          | 0.50 G/O           | Signal   |

## Engine Compartment Harness Connector (U--)

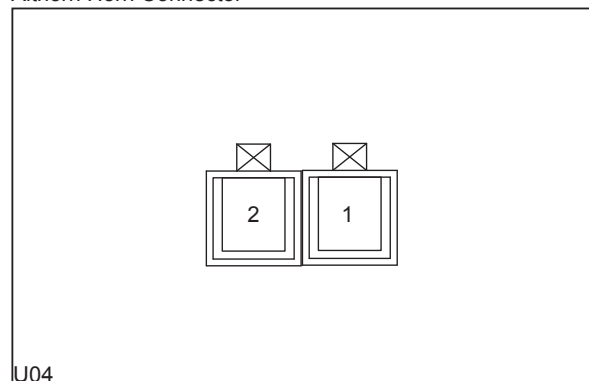
### Outside Temperature Sensor Connector



#### U03 Pin Definition

| Pin Number | Wire Width / Color | Function |
|------------|--------------------|----------|
| 1          | 0.50 V/G           | Signal + |
| 2          | 0.50 V/B           | Signal - |

### Althorn Horn Connector



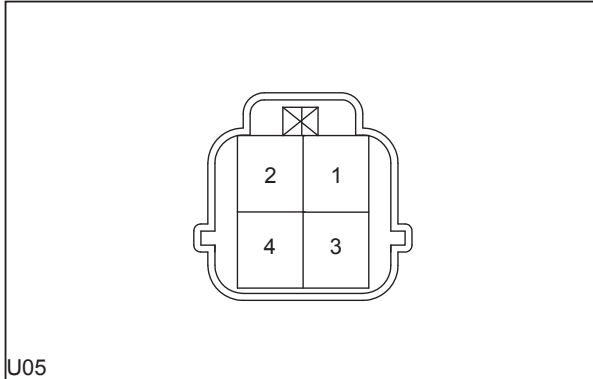
#### U04 Pin Definition

| Pin Number | Wire Width / Color | Function |
|------------|--------------------|----------|
| 1          | 1.25 G             | Power    |
| 2          | 1.25 B             | Ground   |

# Harness Connector View

Engine Compartment Harness Connector (U--)

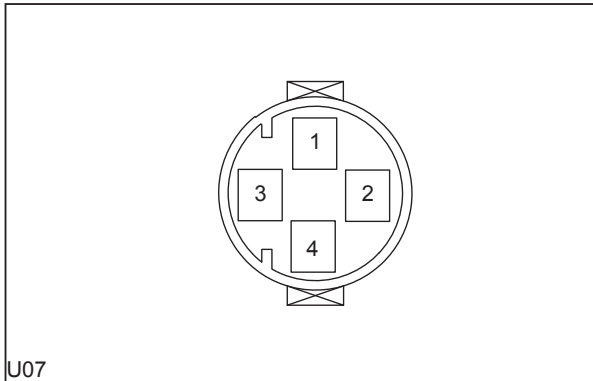
LF Collision Sensor Connector



U05 Pin Definition

| Pin Number | Wire Width / Color | Function |
|------------|--------------------|----------|
| 1          | 0.50 G/B           | Ground   |
| 2          | 0.50 G/Y           | Signal   |
| 3          | 0.50 G/R           | Power    |
| 4          | 0.50 G/B           | Ground   |

Fan Connector

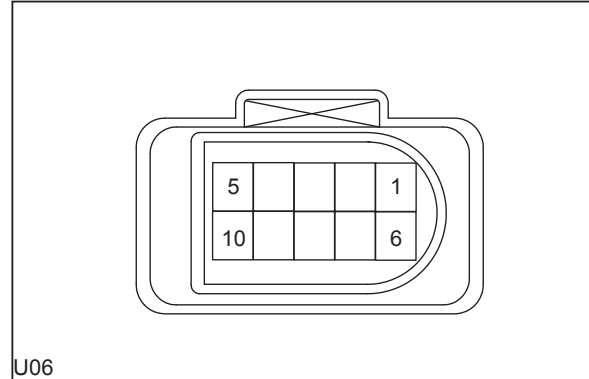


U07 Pin Definition

| Pin Number | Wire Width / Color | Function                          |
|------------|--------------------|-----------------------------------|
| 1          | 3.00 W             | Low speed fan power output        |
| 2          | 3.00 W/G           | High speed fan power output       |
| 3          | 3.00 B             | Ground                            |
| 4          | 3.00 W/R           | High speed fan relay power output |

Engine Compartment Harness Connector (U--)

Front Combination Lamp (Left) Connector



U06 Pin Definition

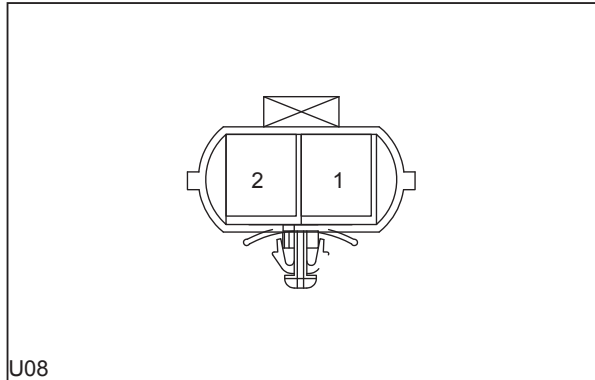
| Pin Number | Wire Width / Color | Function                                 |
|------------|--------------------|--|
| 1          | 0.50 B             | Width lamp ground                        |
| 2          | 0.50 Y/G           | Turn left lamp power                     |
| 3          | 0.50 P/BI          | Width lamp power                         |
| 4          |                    | NC                                       |
| 5          |                    | NC                                       |
| 6          | 1.25 B             | Ground                                   |
| 7          | 0.50 G/R           | Low beam lamp axle adjusting signal      |
| 8          | 1.25 R/Y           | Lamp adjusting motor return power        |
| 9          | 1.25 R/Y           | Low beam lamp power                      |
| 10         | 0.85 V             | High / low beam lamp change over control |



# Harness Connector View

Engine Compartment Harness Connector (U--)

LF Daytime Running Lamp Connector

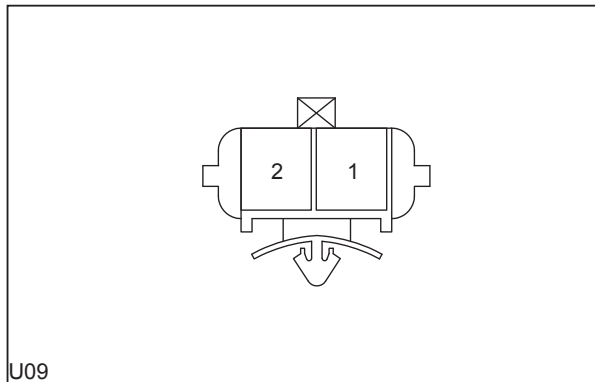


U08

U08 Pin Definition

| Pin Number | Wire Width / Color | Function |
|------------|--------------------|----------|
| 1          | 0.50 B             | Ground   |
| 2          | 0.50 Br/W          | Power    |

LF Tire Pressure Antenna Connector



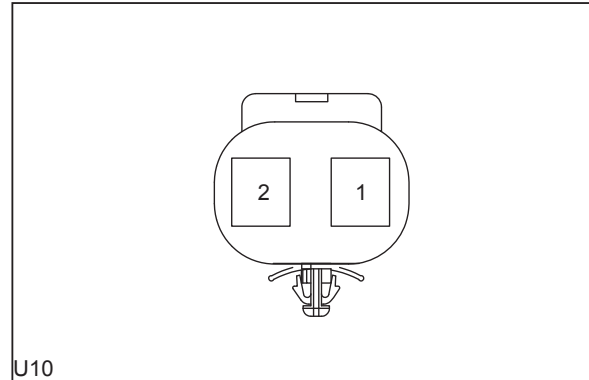
U09

U09 Pin Definition

| Pin Number | Wire Width / Color | Function              |
|------------|--------------------|-----------------------|
| 1          | 0.50 Y/G           | TPMS antenna signal - |
| 2          | 0.50 Y/B           | TPMS antenna signal + |

Engine Compartment Harness Connector (U--)

LF Wheel Speed Sensor Connector

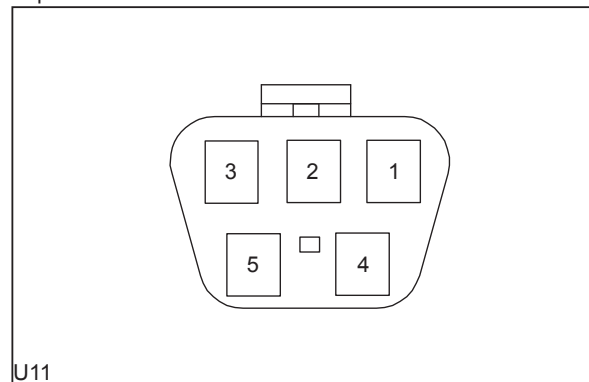


U10

U10 Pin Definition

| Pin Number | Wire Width / Color | Function |
|------------|--------------------|----------|
| 1          | 0.50 Br/W          | Signal + |
| 2          | 0.50 Br/Y          | Signal - |

Wiper Motor Connector



U11

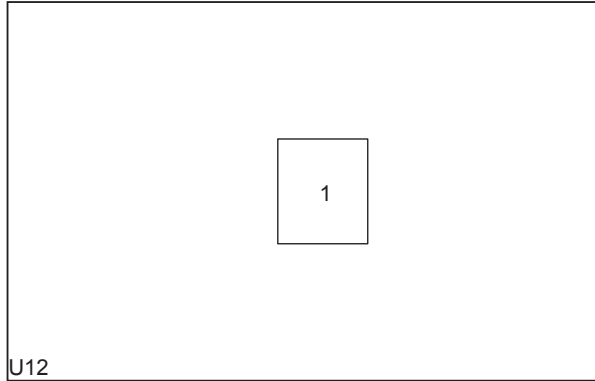
U11 Pin Definition

| Pin Number | Wire Width / Color | Function               |
|------------|--------------------|------------------------|
| 1          | 0.50 Y/BI          | Wiper return signal    |
| 2          |                    | NC                     |
| 3          | 1.25 G/BI          | Wiper low speed power  |
| 4          | 1.25 B             | Ground                 |
| 5          | 1.25 G/Y           | Wiper high speed power |

# Harness Connector View

## Engine Compartment Harness Connector (U--)

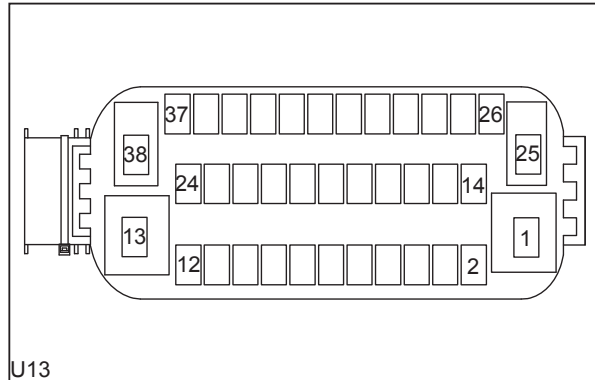
### IP Fuse And Box Power Connector



### U12 Pin Definition

| Pin Number | Wire Width / Color | Function |
|------------|--------------------|----------|
| 1          | 8.00 R/W           | Power    |

### ABS/ESP HCU Connector



### U13 Pin Definition

| Pin Number | Wire Width / Color | Function                       |
|------------|--------------------|--------------------------------|
| 1          | 4.00 R             | ABS/ESP motor power            |
| 2          | 0.50 Y/V           | Wheel speed signal output      |
| 3          |                    | NC                             |
| 4          | 0.50 Br/B          | RF wheel speed sensor signal - |
| 5          |                    | NC                             |
| 6          |                    | NC                             |
| 7          |                    | NC                             |
| 8          | 0.50 Br/Y          | LF wheel speed sensor signal - |
| 9          |                    | NC                             |

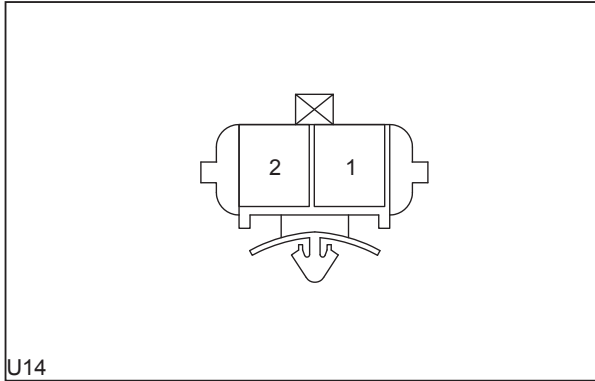
## Engine Compartment Harness Connector (U--)

|    |            |   |
|----|------------|---|
| 10 |            | NC                                      |
| 11 |            | NC                                      |
| 12 | 0.50 Y/R   | ESP switch signal                       |
| 13 | 4.00 B     | Ground                                  |
| 14 | 0.50 Y/B   | PCAN-L                                  |
| 15 |            | NC                                      |
| 16 | 0.50 Br/O  | RF wheel speed sensor signal +          |
| 17 | 0.50 Br/P  | RR wheel speed sensor signal +          |
| 18 | 0.50 Br/Bl | LR wheel speed sensor signal -          |
| 19 | 0.50 Br/W  | LF wheel speed sensor signal +          |
| 20 | 0.50 O     | Yaw Rate Sensor signal -                |
| 21 |            | NC                                      |
| 22 |            | NC                                      |
| 23 |            | NC                                      |
| 24 |            | NC                                      |
| 25 | 3.00 R/O   | ABS solenoid valve power                |
| 26 | 0.50 Y     | PCAN-H                                  |
| 27 |            | NC                                      |
| 28 | 0.50 R/W   | ABS/ESP ECU power                       |
| 29 | 0.50 Br/G  | RR wheel speed sensor signal -          |
| 30 | 0.50 W     | Brake switch power output (normally ON) |
| 31 | 0.50 Br/Gr | LR wheel speed sensor signal +          |
| 32 |            | NC                                      |
| 33 | 0.50 O/B   | Yaw Rate Sensor signal +                |
| 34 |            | NC                                      |
| 35 |            | NC                                      |
| 36 |            | NC                                      |
| 37 |            | NC                                      |
| 38 | 2.00 B     | Ground                                  |

# Harness Connector View

Engine Compartment Harness Connector (U--)

RF Tire Pressure Antenna Connector

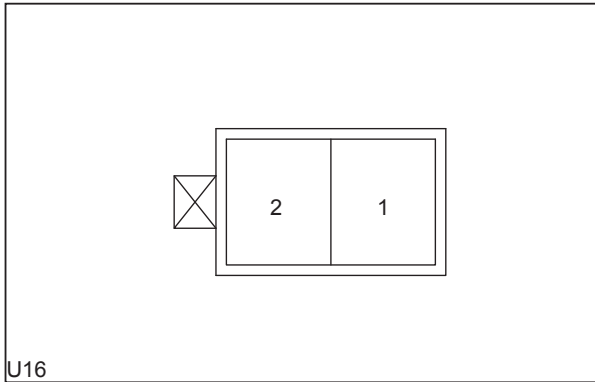


U14

U14 Pin Definition

| Pin Number | Wire Width / Color | Function              |
|------------|--------------------|-----------------------|
| 1          | 0.50 Y             | TPMS antenna signal - |
| 2          | 0.50 Y/Gr          | TPMS antenna signal + |

Brake Fluid Level Switch Connector



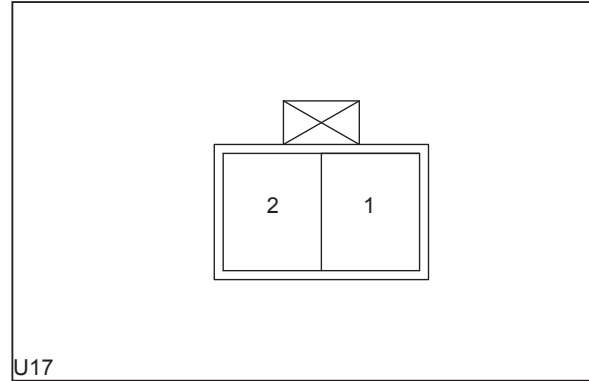
U15

U15 Pin Definition

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

Engine Compartment Harness Connector (U--)

Washer Motor Connector

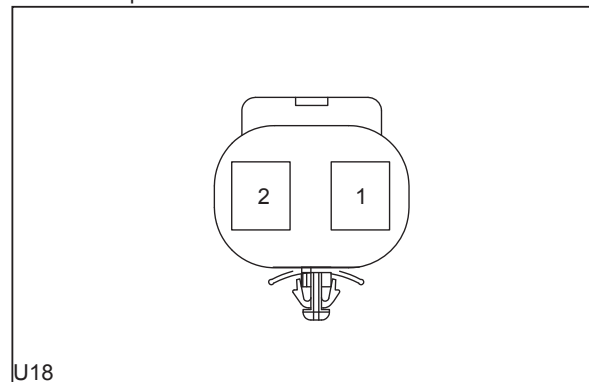


U16

U16 Pin Definition

| Pin Number | Wire Width / Color | Function |
|------------|--------------------|----------|
| 1          | 0.50 B             | Ground   |
| 2          | 0.50 Bl/R          | Power    |

RF Wheel Speed Sensor Connector



U18

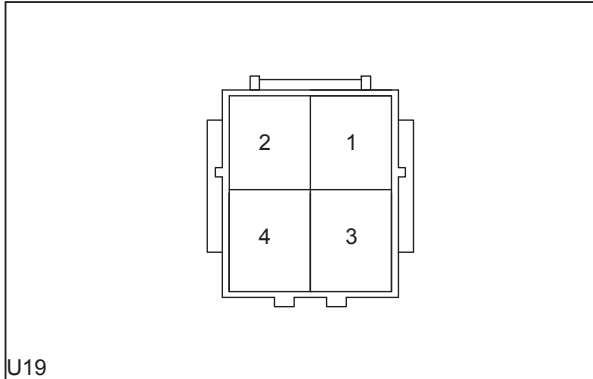
U18 Pin Definition

| Pin Number | Wire Width / Color | Function |
|------------|--------------------|----------|
| 1          | 0.50 Br/O          | Signal + |
| 2          | 0.50 Br/B          | Signal - |

# Harness Connector View

## Engine Compartment Harness Connector (U--)

### A/C Pressure Switch Connector

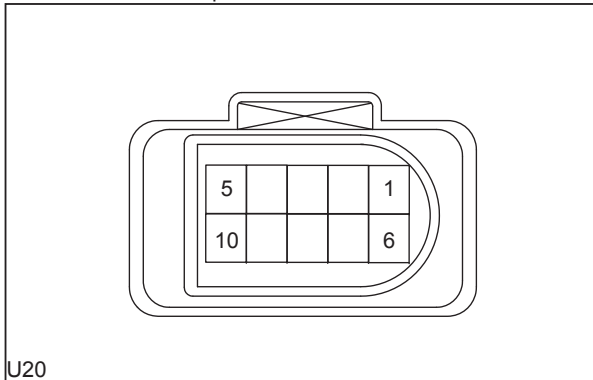


U19

### U19 Pin Definition

| Pin Number | Wire Width / Color | Function                     |
|------------|--------------------|------------------------------|
| 1          | 0.50 R/Y           | Medium pressure signal input |
| 2          | 0.50 B             | Ground                       |
| 3          | 0.50 Br/W          | A/C request signal input     |
| 4          | 0.50 Y/G           | A/C request signal           |

### RF Combination Lamp Connector



U20

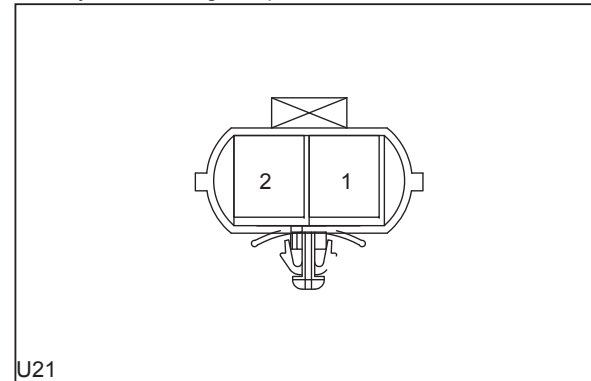
### U20 Pin Definition

| Pin Number | Wire Width / Color | Function                         |
|------------|--------------------|----------------------------------|
| 1          | 0.50 B             | Ground                           |
| 2          | 0.50 R/Y           | Turn right lamp power            |
| 3          | 0.50 P/BI          | Width lamp power                 |
| 4          |                    | NC                               |
| 5          |                    | NC                               |
| 6          | 1.25 B             | Ground                           |
| 7          | 0.50 G/R           | Low beam lamp axle adjust signal |

## Engine Compartment Harness Connector (U--)

|    |          |  |
|----|----------|--|
| 8  | 1.25 R/Y | Lamp modulation motor return power       |
| 9  | 1.25 R/Y | Low beam lamp power                      |
| 10 | 0.85 V   | High / low beam lamp change over control |

### RF Daytime Running Lamp Connector

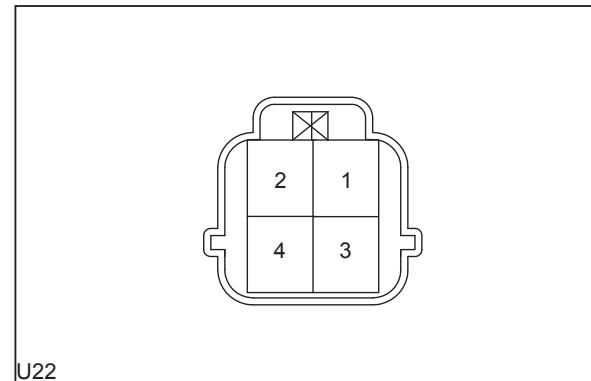


U21

### U21 Pin Definition

| Pin Number | Wire Width / Color | Function |
|------------|--------------------|----------|
| 1          | 0.50 B             | Ground   |
| 2          | 0.50 Br/W          | Power    |

### RF Collision Sensor Connector



U22

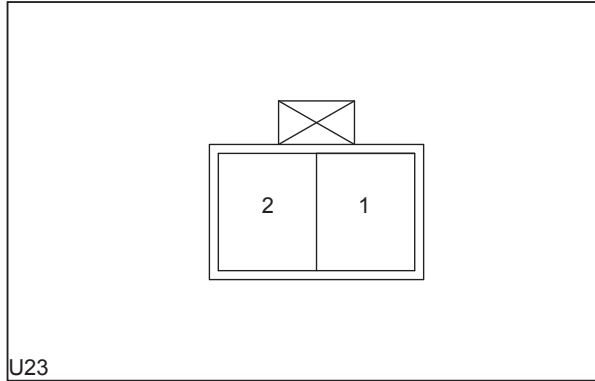
### U22 Pin Definition

| Pin Number | Wire Width / Color | Function |
|------------|--------------------|----------|
| 1          | 0.50 G/B           | Ground   |
| 2          | 0.50 G/Y           | Signal   |
| 3          | 0.50 G/R           | Power    |
| 4          |                    | NC       |

# Harness Connector View

Engine Compartment Harness Connector (U--)

EPS ECU Connector



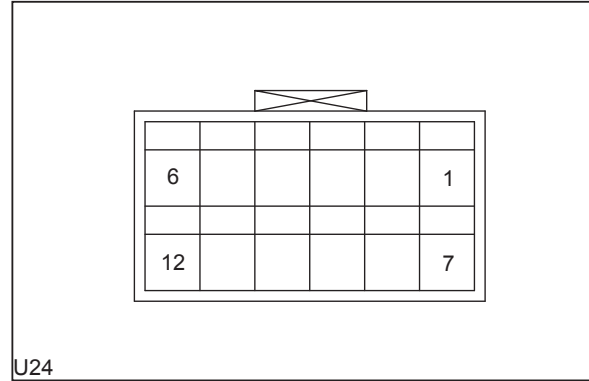
U23

U23 Pin Definition

| Pin Number | Wire Width / Color | Function |
|------------|--------------------|----------|
| 1          | 4.00 R             | Power    |
| 2          | 4.00 B             | Ground   |

Engine Compartment Harness Connector (U--)

TCU-1 Connector



U24

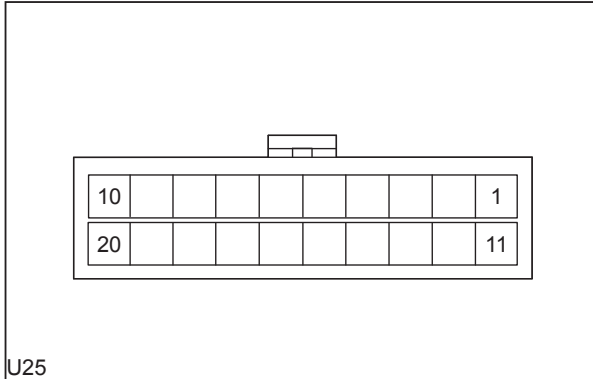
U24 Pin Definition

| Pin Number | Wire Width / Color | Function                            |
|------------|--------------------|-------------------------------------|
| 1          |                    | NC                                  |
| 2          |                    | NC                                  |
| 3          | 0.50 BI            | Manual model changing over signal - |
| 4          |                    | NC                                  |
| 5          |                    | NC                                  |
| 6          |                    | NC                                  |
| 7          |                    | NC                                  |
| 8          |                    | NC                                  |
| 9          | 0.50 Y             | Manual model changing over signal + |
| 10         |                    | NC                                  |
| 11         |                    | NC                                  |
| 12         |                    | NC                                  |

# Harness Connector View

Engine Compartment Harness Connector (U--)

TCU-2 Connector

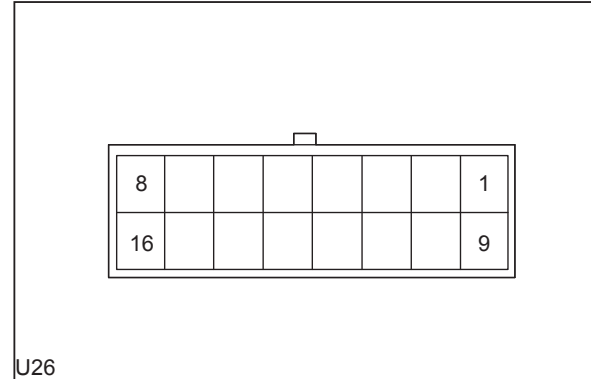


U25 Pin Definition

| Pin Number | Wire Width / Color | Function                         |
|------------|--------------------|----------------------------------|
| 1          | 0.50 Y             | PCAN-H                           |
| 2          | 0.50 G             | P gear unlock +                  |
| 3          | 0.50 O/B           | Oil temperature sensor signal    |
| 4          | 0.50 W/BI          | Gear width signal                |
| 5          | 0.50 V             | Snow model switch signal         |
| 6          |                    | NC                               |
| 7          | 0.50 G/R           | EMM line                         |
| 8          | 0.50 Gr/Y          | Input shaft speed sensor signal  |
| 9          | 0.50 Br/R          | EMM speed sensor power           |
| 10         | 0.50 V/B           | Output shaft speed sensor signal |
| 11         | 0.50 Y/B           | PCAN-L                           |
| 12         |                    | NC                               |
| 13         | 0.50 B/R           | Oil temperature sensor signal    |
| 14         | 0.50 R/Y           | Gear width signal ground         |
| 15         |                    | NC                               |
| 16         | 0.50 W             | Switch signal ground             |
| 17         | 0.50 Y/B           | EMM clock                        |
| 18         |                    | NC                               |
| 19         | 0.50 BI/R          | EMM speed sensor ground          |
| 20         |                    | NC                               |

Engine Compartment Harness Connector (U--)

TCU-3 Connector



U26 Pin Definition

| Pin Number | Wire Width / Color | Function                        |
|------------|--------------------|---------------------------------|
| 1          | 1.25 B             | Ground                          |
| 2          | 1.25 B/W           | Ground                          |
| 3          | 0.50 G/W           | VBS 6 control                   |
| 4          | 0.50 W/R           | VBS 5 control                   |
| 5          | 0.50 Br/W          | VBS 8 control                   |
| 6          | 0.50 Y/R           | VBS 7 control                   |
| 7          | 0.50 Gr/R          | VBS 10 control                  |
| 8          | 0.50 BI/W          | VBS 9 control                   |
| 9          | 1.25 R             | Power                           |
| 10         | 1.25 V/W           | Ground                          |
| 11         |                    | NC                              |
| 12         |                    | NC                              |
| 13         | 0.50 W/B           | Switch solenoid vavle control 3 |
| 14         | 0.50 R/B           | Switch solenoid vavle control 4 |
| 15         | 1.25 O/W           | Switch solenoid vavle control 1 |
| 16         | 1.25 B/Y           | Switch solenoid vavle control 2 |

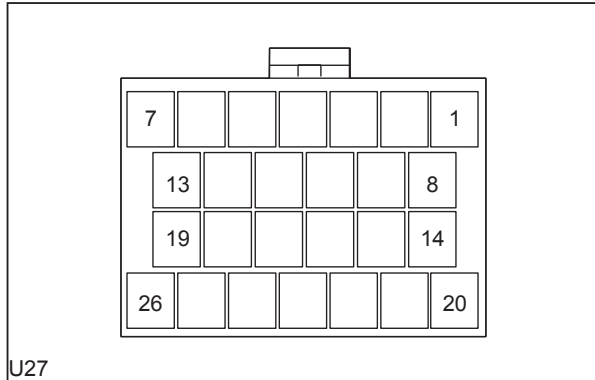




# Harness Connector View

Engine Compartment Harness Connector (U--)

Solenoid/Vavle Connector



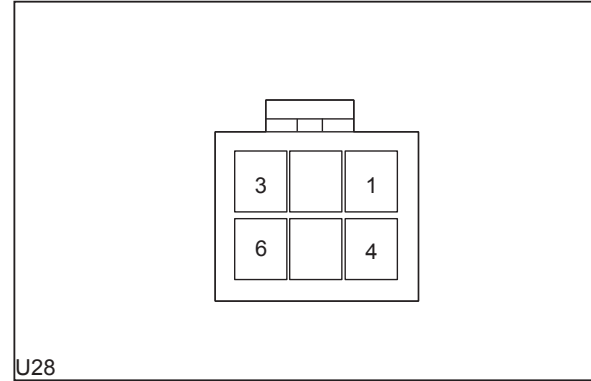
U27

U27 Pin Definition

| Pin Number | Wire Width / Color | Function                         |
|------------|--------------------|----------------------------------|
| 1          | 1.25 B/W           | Ground                           |
| 2          | 0.50 W/R           | VBS 5 control                    |
| 3          | 0.50 G/W           | VBS 6 control                    |
| 4          | 0.50 Y/R           | VBS 7 control                    |
| 5          | 0.50 Br/W          | VBS 8 control                    |
| 6          | 0.50 Bl/W          | VBS 9 control                    |
| 7          | 0.50 Gr/R          | VBS 10 control                   |
| 8          | 0.50 Bl/R          | EMM speed sensor ground          |
| 9          | 0.50 Br/R          | EMM speed sensor power           |
| 10         | 0.50 V/B           | Output shaft speed sensor signal |
| 11         | 0.50 Gr/Y          | Input shaft speed sensor signal  |
| 12         | 0.50 G/R           | EMM line                         |
| 13         | 0.50 Y/B           | EMM clock                        |
| 14         |                    | NC                               |
| 15         |                    | NC                               |
| 16         |                    | NC                               |
| 17         |                    | NC                               |
| 18         |                    | NC                               |
| 19         |                    | NC                               |
| 20         | 1.25 V/W           | Ground                           |
| 21         | 1.25 O/W           | Switch solenoid vavle control 1  |
| 22         | 0.85 B/Y           | Switch solenoid vavle control 2  |
| 23         | 0.50 W/B           | Switch solenoid vavle control 3  |
| 24         | 0.50 R/B           | Switch solenoid vavle control 4  |
| 25         | 0.50 B/R           | Oil temperature sensor signal -  |
| 26         | 0.50 O/B           | Oil temperature sensor signal +  |

Engine Compartment Harness Connector (U--)

Gear Position Switch Connector



U28

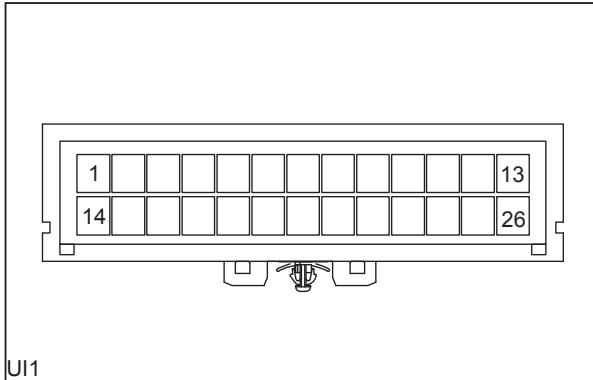
U28 Pin Definition

| Pin Number | Wire Width / Color | Function                     |
|------------|--------------------|------------------------------|
| 1          | 0.50 B             | P/N gear ground              |
| 2          | 0.50 V/R           | P/N gear input signal        |
| 3          | 0.50 Br/Y          | R gear output signal         |
| 4          | 0.50 B             | Reverse lamp switch ground   |
| 5          | 0.50 W/Bl          | TCU gear width signal        |
| 6          | 0.50 R/Y           | TCU gear width signal ground |

# Harness Connector View

Engine Compartment Harness Connector (U--)

Engine Compartment Harness to IP Harness Connector

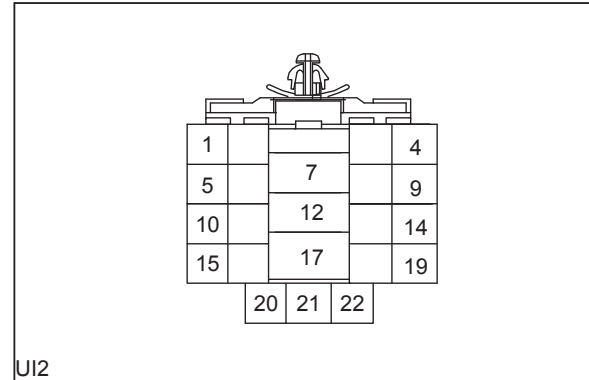


U11 Pin Definition

| Pin Number | Wire Width / Color | Function                               |
|------------|--------------------|--|
| 1          | 0.50 B/Y           | Stator relay power return signal       |
| 2          | 0.50 R             | Stator relay power                     |
| 3          | 0.50 Y/Gr          | RF TPMS antenna +                      |
| 4          | 0.50 Y/B           | LF TPMS antenna +                      |
| 5          | 0.50 G/R           | Front collision sensor power           |
| 6          | 0.50 O             | Low beam lamp relay control            |
| 7          | 0.50 R/Y           | Turn right lamp power                  |
| 8          | 0.50 G/R           | Low beam lamp axle adjust signal       |
| 9          | 0.50 Br/W          | Daytime running lamp power             |
| 10         | 0.50 BI/R          | Washer power                           |
| 11         | 1.25 G/BI          | Wiper motor low speed power            |
| 12         | 0.50 V/G           | Outside temperature sensor signal      |
| 13         | 0.50 Y/G           | A/C request signal                     |
| 14         | 0.50 W             | Brake switch power output(normally ON) |
| 15         | 0.50 O/R           | Rear oxygen sensor power               |
| 16         | 0.50 Y             | RF TPMS antenna -                      |
| 17         | 0.50 Y/G           | LF TPMS antenna -                      |
| 18         | 0.50 R/Y           | Low beam lamp axle adjust power        |
| 19         | 0.85 V             | Left high beam lamp power              |
| 20         | 0.50 Y/G           | Turn left lamp power                   |
| 21         | 0.50 P/BI          | Front width lamp power                 |
| 22         | 0.50 G/O           | Engine compartment cover switch signal |
| 23         | 0.50 Y/BI          | Wiper motor return signal              |
| 24         | 1.25 G/Y           | Wiper motor high speed power           |
| 25         | 0.50 V/B           | Ground                                 |
| 26         |                    | NC                                     |

Engine Compartment Harness Connector (U--)

Engine Compartment Harness to IP Harness Connector



U12 Pin Definition

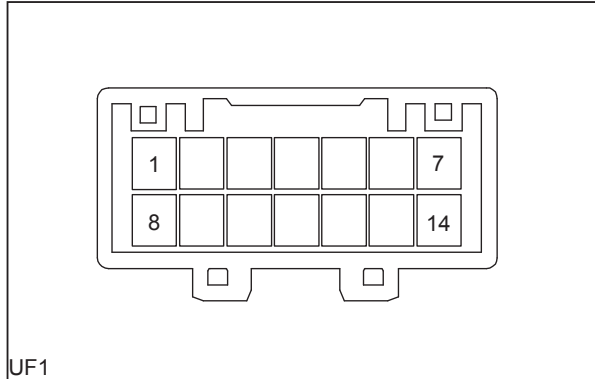
| Pin Number | Wire Width / Color | Function                        |
|------------|--------------------|---------------------------------|
| 1          | 0.50 O             | Yaw Rate Sensor signal -        |
| 2          | 0.50 R/W           | ABS HCU power                   |
| 3          | 0.50 G             | Brake fluid level switch signal |
| 4          | 0.50 Br/G          | RR wheel speed sensor signal -  |
| 5          | 0.50 Y/B           | PCAN-L                          |
| 6          | 0.50 Y             | PCAN-H                          |
| 7          | 1.25 R             | IG1 power                       |
| 8          | 0.50 W             | Horn relay switch control       |
| 9          | 0.50 Br/P          | RR wheel speed sensor signal    |
| 10         | 0.50 Y/R           | ESP switch signal               |
| 11         | 0.50 Y/V           | Wheel speed signal output       |
| 12         |                    | NC                              |
| 13         | 0.50 O/B           | Yaw Rate Sensor signal +        |
| 14         | 0.50 G             | P gear unlock +                 |
| 15         | 0.50 V/R           | TCU controller N gear signal    |
| 16         | 0.50 Br/Y          | TCU controller R gear signal    |
| 17         |                    | NC                              |
| 18         | 0.50 W             | P gear unlock -                 |
| 19         | 0.50 Y             | Manual model signal over +      |
| 20         | 0.50 V             | Snow model switch signal        |
| 21         |                    | NC                              |
| 22         | 0.50 BI            | Manual model signal over -      |



# Harness Connector View

Engine Compartment Harness Connector (U--)

Engine Compartment Harness to Left Body Harness Connector



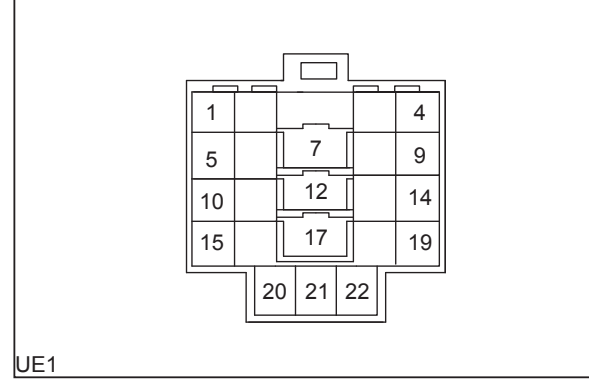
UF1

UF1 Pin Definition

| Pin Number | Wire Width / Color | Function                       |
|------------|--------------------|--------------------------------|
| 1          | 0.50 G/B           | Ground                         |
| 2          | 0.50 G/Y           | Front collision sensor signal  |
| 3          |                    | NC                             |
| 4          |                    | NC                             |
| 5          |                    | NC                             |
| 6          | 2.00 Y             | Fuel pump power                |
| 7          | 0.50 Br/Gr         | LR wheel speed sensor signal + |
| 8          | 0.50 G/R           | Power                          |
| 9          |                    | NC                             |
| 10         |                    | NC                             |
| 11         |                    | NC                             |
| 12         |                    | NC                             |
| 13         |                    | NC                             |
| 14         | 0.50 Br/Bl         | LR wheel speed sensor signal - |

Engine Compartment Harness Connector (U--)

Engine Compartment Harness to Engine Harness Connector



UE1

UE1 Pin Definition

| Pin Number | Wire Width / Color | Function                             |
|------------|--------------------|--------------------------------------|
| 1          | 0.50 Bl/G          | Adjust speed fan relay ECU control   |
| 2          | 0.50 Y/R           | A/C compressor control signal        |
| 3          | 0.50 Y/W           | Fuel pump control                    |
| 4          | 0.50 Y/V           | Low speed fan control signal         |
| 5          | 0.50 R/B           | Main relay control signal            |
| 6          | 1.25 G             | A/C compressor relay power output    |
| 7          | 3.00 R             | Stator relay power output            |
| 8          | 0.50 O             | Front oxygen sensor power            |
| 9          |                    | NC                                   |
| 10         | 0.50 R/Y           | A/C medium switch signal input       |
| 11         | 0.50 Br/W          | A/C switch signal input              |
| 12         | 2.00 R/G           | Main relay power                     |
| 13         | 0.85 R             | ECM power                            |
| 14         |                    | NC                                   |
| 15         | 1.25 B             | Ground                               |
| 16         |                    | NC                                   |
| 17         | 2.00 R/W           | Ignition coil power                  |
| 18         | 1.25 R/Bl          | Electronics water pump power         |
| 19         | 0.50 Y/G           | Electronics water pump relay control |
| 20         |                    | NC                                   |
| 21         |                    | NC                                   |
| 22         |                    | NC                                   |

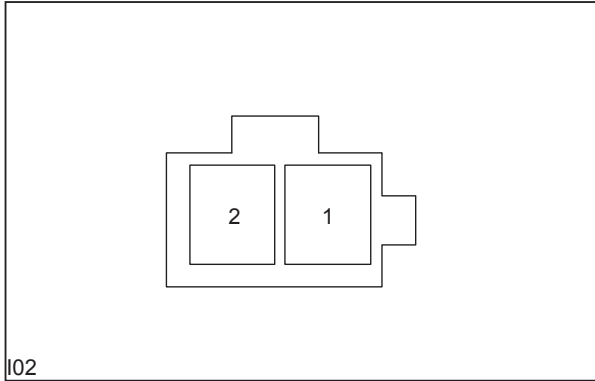


# Harness Connector View



## Instrument Harness Connector (I--)

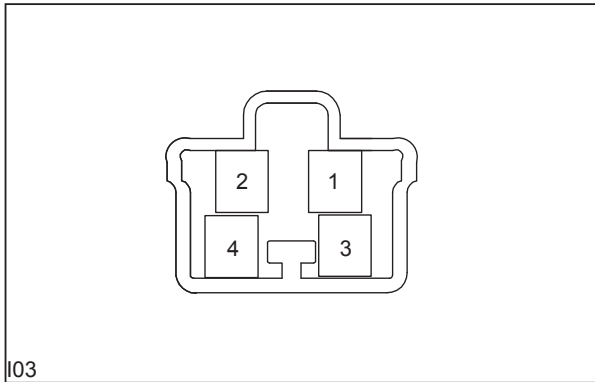
### LF Speaker Connector



#### I02 Pin Definition

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

### Clutch Switch Connector

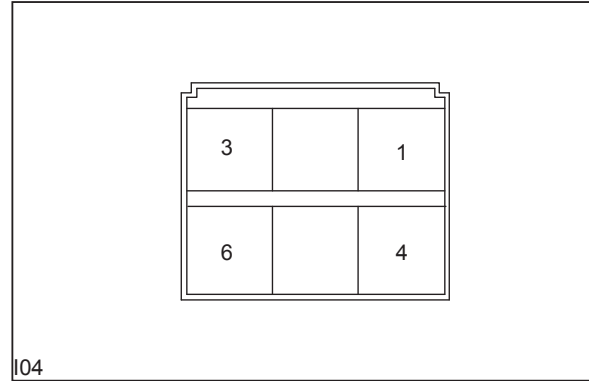


#### I03 Pin Definition

| Pin Number | Wire Width / Color | Function |
|------------|--------------------|----------|
| 1          | 0.50 P/B           | Signal   |
| 2          | 0.50 B             | Ground   |
| 3          |                    | NC       |
| 4          |                    | NC       |

## Instrument Harness Connector (I--)

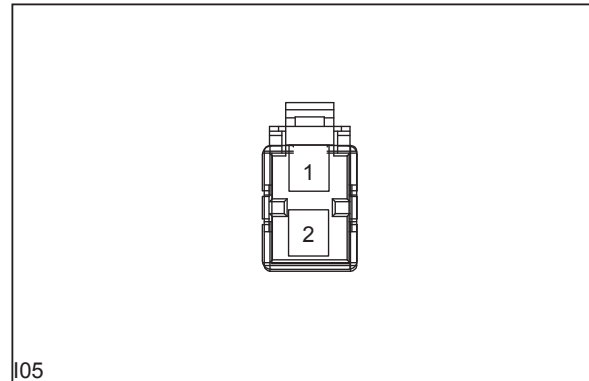
### Intelligence Breaker Connector



#### I04 Pin Definition

| Pin Number | Wire Width / Color | Function     |
|------------|--------------------|--------------|
| 1          | 0.85 O/B           | Power        |
| 2          | 2.00 R/B           | Power output |
| 3          |                    | NC           |
| 4          | 0.85 B             | Ground       |
| 5          | 3.00 R             | Power input  |
| 6          | 2.00 R             | Power input  |

### Center Control Box A Connector



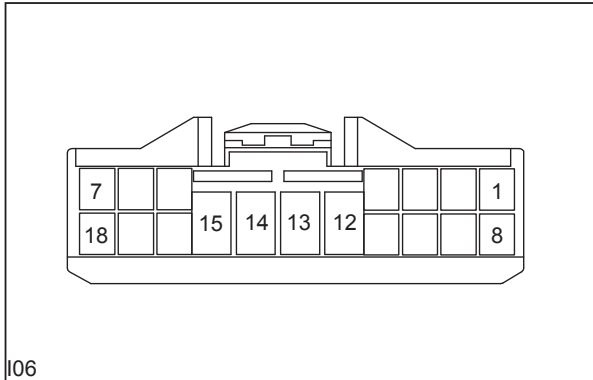
#### I05 Pin Definition

| Pin Number | Wire Width / Color | Function |
|------------|--------------------|----------|
| 1          |                    | NC       |
| 2          | 0.85 O/B           | Power    |

# Harness Connector View

Instrument Harness Connector (I--)

Center Control Box B Connector

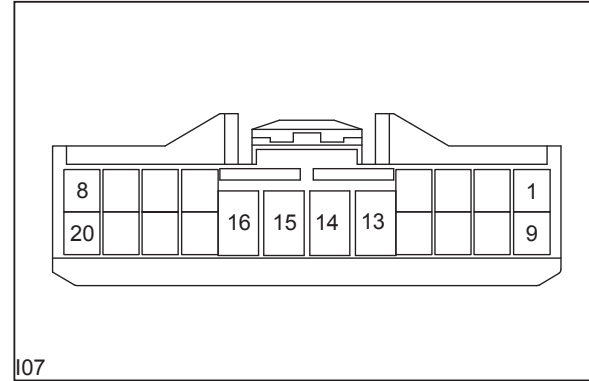


I06 Pin Definition

| Pin Number | Wire Width / Color | Function                            |
|------------|--------------------|-------------------------------------|
| 1          |                    | NC                                  |
| 2          |                    | NC                                  |
| 3          | 0.50 R/W           | FS33 power output                   |
| 4          |                    | NC                                  |
| 5          | 0.50 Y/V           | Rear defroster relay control signal |
| 6          | 0.85 B             | Ground                              |
| 7          |                    | NC                                  |
| 8          |                    | NC                                  |
| 9          |                    | NC                                  |
| 10         | 0.50 B/P           | IG1 relay control                   |
| 11         |                    | NC                                  |
| 12         | 0.50 O/R           | FS52 power output                   |
| 13         |                    | NC                                  |
| 14         | 3.00 R             | Blower power                        |
| 15         | 2.00 R/W           | Rear defroster heating power        |
| 16         | 0.50 O/BI          | IG2 power return signal             |
| 17         | 0.50 Y/G           | AC blower relay control             |
| 18         |                    | NC                                  |

Instrument Harness Connector (I--)

Center Control Box C Connector



I07 Pin Definition

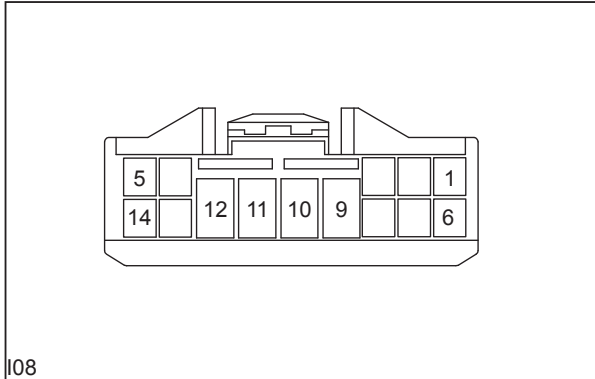
| Pin Number | Wire Width / Color | Function                |
|------------|--------------------|-------------------------|
| 1          | 1.25 R/W           | FS39 power              |
| 2          | 1.25 R/W           | FS19 power output       |
| 3          | 0.50 R/W           | FS29 power output       |
| 4          | 0.50 W             | FS14 power output       |
| 5          | 0.50 R/Y           | FS51 power output       |
| 6          | 0.50 O/B           | IG1 power return signal |
| 7          | 0.85 R             | FS01 power output       |
| 8          | 0.50 R/W           | FS30 power output       |
| 9          | 0.50 G/R           | FS48 power output       |
| 10         | 1.25 R/O           | FS04 power output       |
| 11         | 0.85 R             | FS57 power output       |
| 12         | 0.50 R             | FS34 power output       |
| 13         | 1.25 R             | FS41 power output       |
| 14         | 3.00 R/G           | FS43 power output       |
| 15         | 2.00 R/O           | FS27 power output       |
| 16         | 2.00 R             | FS18 power output       |
| 17         | 1.25 R/Gr          | FS21 power output       |
| 18         | 0.50 R             | FS25 power output       |
| 19         | 0.85 R             | FS22 power output       |
| 20         | 1.25 R/W           | FS06 power output       |



# Harness Connector View

Instrument Harness Connector (I--)

Center Control Box D Connector



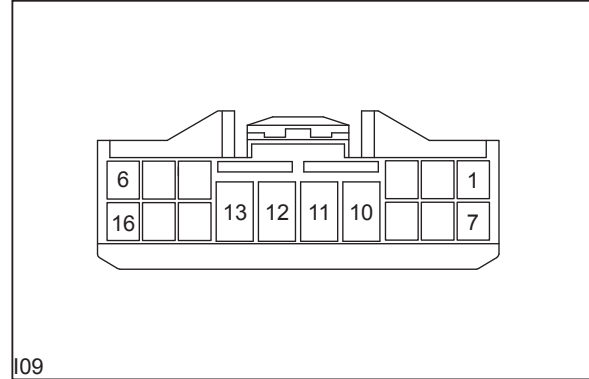
I08

I08 Pin Definition

| Pin Number | Wire Width / Color | Function          |
|------------|--------------------|-------------------|
| 1          |                    | NC                |
| 2          |                    | NC                |
| 3          |                    | NC                |
| 4          |                    | NC                |
| 5          | 0.50 R/W           | FS38 power output |
| 6          | 0.50 B/BI          | IG2 relay control |
| 7          | 0.50 R             | FS03 power output |
| 8          |                    | NC                |
| 9          |                    | NC                |
| 10         | 2.00 R/B           | FS26 power output |
| 11         | 2.00 R             | FS24 power output |
| 12         | 2.00 R/W           | FS28 power output |
| 13         | 1.25 R             | FS23 power output |
| 14         |                    | NC                |

Instrument Harness Connector (I--)

Center Control Box E Connector



I09

I09 Pin Definition

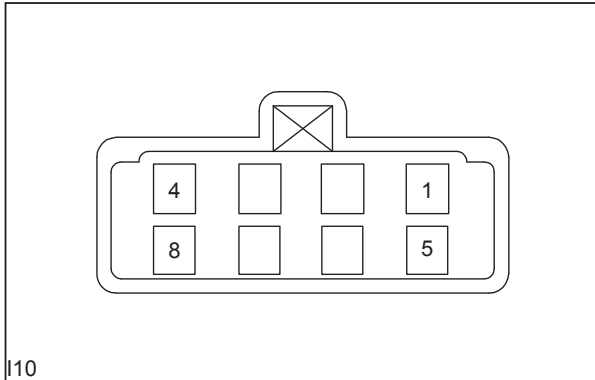
| Pin Number | Wire Width / Color | Function                |
|------------|--------------------|-------------------------|
| 1          |                    | NC                      |
| 2          | 1.25 R             | FS16 power output       |
| 3          | 0.50 R/Y           | FS44 power output       |
| 4          | 0.50 O             | ACC power return signal |
| 5          |                    | NC                      |
| 6          | 1.25 R             | FS17 power output       |
| 7          |                    | NC                      |
| 8          | 1.25 R/O           | FS12 power output       |
| 9          | 1.25 R/G           | FS13 power output       |
| 10         |                    | NC                      |
| 11         |                    | NC                      |
| 12         | 1.25 R             | FS32 power output       |
| 13         | 0.85 R             | FS02 power output       |
| 14         | 2.00 R/W           | FS15 power output       |
| 15         |                    | NC                      |
| 16         | 0.50 B/R           | ACC relay control       |



# Harness Connector View

Instrument Harness Connector (I--)

Center Control Box F Connector

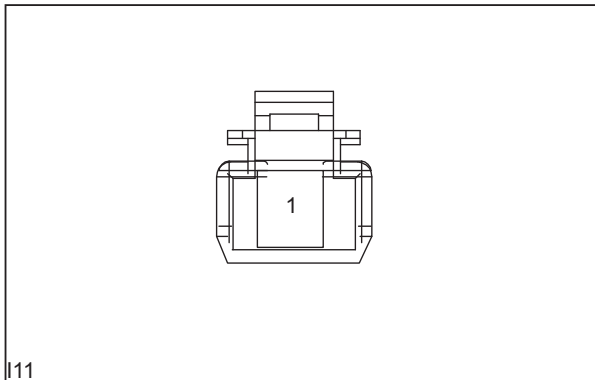


I10

I10 Pin Definition

| Pin Number | Wire Width / Color | Function          |
|------------|--------------------|-------------------|
| 1          | 3.00 R             | SB05 power output |
| 2          |                    | NC                |
| 3          | 0.50 R/Y           | FS11 power output |
| 4          | 2.00 R/O           | FS37 power output |
| 5          |                    | NC                |
| 6          | 1.25 R             | FS36 power output |
| 7          | 3.00 R/Y           | FS42 power output |
| 8          | 1.25 R/Y           | FS31 power output |

Center Control Box G Connector



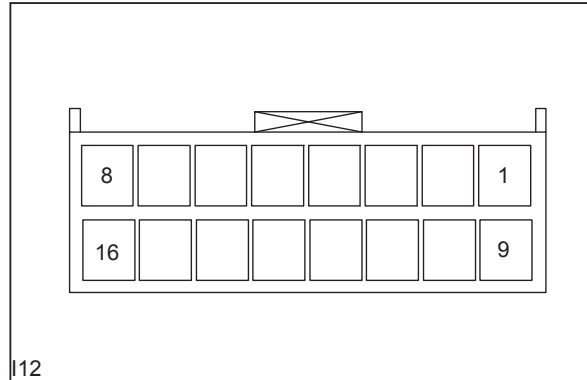
I11

I11 Pin Definition

| Pin Number | Wire Width / Color | Function                    |
|------------|--------------------|-----------------------------|
| 1          | 3.00 R/B           | Intelligence breaker output |

Instrument Harness Connector (I--)

Instrument Panel Switch Connector



I12

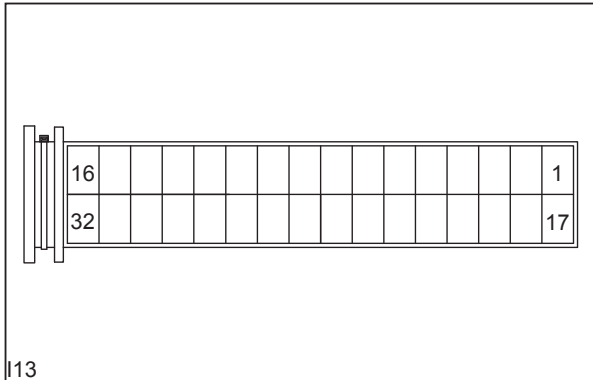
I12 Pin Definition

| Pin Number | Wire Width / Color | Function                         |
|------------|--------------------|----------------------------------|
| 1          | 1.25 R             | Instrument panel switch power    |
| 2          |                    | NC                               |
| 3          |                    | NC                               |
| 4          | 0.50 B             | Ground                           |
| 5          | 0.50 Y/R           | ESP switch signal                |
| 6          | 0.50 B             | Ground                           |
| 7          | 0.50 R/G           | Trunk ON signal                  |
| 8          | 0.50 P/BI          | Width lamp power input           |
| 9          | 0.50 R/Y           | Low beam lamp power              |
| 10         | 0.50 G/R           | Low beam height adjusting signal |
| 11         |                    | NC                               |
| 12         | 0.50 V             | Width lamp power                 |
| 13         |                    | NC                               |
| 14         |                    | NC                               |
| 15         | 0.50 B             | Ground                           |
| 16         |                    | NC                               |

# Harness Connector View

Instrument Harness Connector (I--)

Instrument Cluster Connector



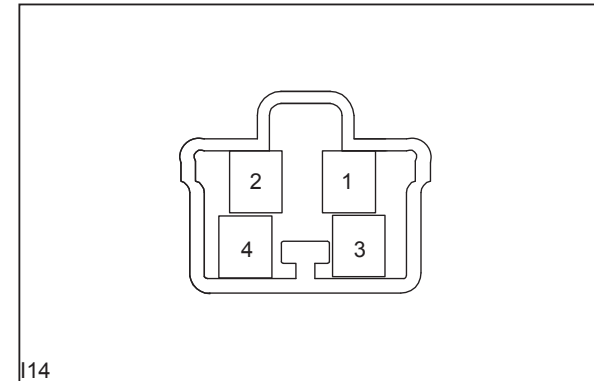
I13 Pin Definition

| Pin Number | Wire Width / Color | Function                          |
|------------|--------------------|-----------------------------------|
| 1          | 0.50 R             | Battery power                     |
| 2          | 0.50 B             | Ground                            |
| 3          |                    | NC                                |
| 4          | 0.50 G/Bl          | Parking brake switch signal       |
| 5          | 0.50 W             | BCAN-H                            |
| 6          | 0.50 W/B           | BCAN-L                            |
| 7          | 0.50 G/B           | Driver seat belt switch signal    |
| 8          |                    | NC                                |
| 9          |                    | NC                                |
| 10         | 0.50 G/Y           | Oil pressure switch signal        |
| 11         | 0.50 V             | Width lamp power                  |
| 12         |                    | NC                                |
| 13         |                    | NC                                |
| 14         |                    | NC                                |
| 15         |                    | NC                                |
| 16         | 0.50 G/W           | Speed signal output               |
| 17         | 0.50 R/W           | IG1 power                         |
| 18         | 0.50 B             | Ground                            |
| 19         | 0.50 Br            | K-line                            |
| 20         | 0.50 W/R           | Charging indicator                |
| 21         | 0.50 B             | Ground                            |
| 22         | 0.50 G/R           | Fuel sensor signal                |
| 23         | 0.50 O             | Passenger seat belt switch signal |
| 24         |                    | NC                                |
| 25         | 0.50 G             | Brake liquid level switch signal  |
| 26         | 0.50 Y/B           | PCAN-L                            |
| 27         | 0.50 Y             | PCAN-H                            |
| 28         |                    | NC                                |
| 29         |                    | NC                                |
| 30         |                    | NC                                |

Instrument Harness Connector (I--)

|    |  |    |
|----|--|----|
| 31 |  | NC |
| 32 |  | NC |

Brake Switch Connector



I14 Pin Definition

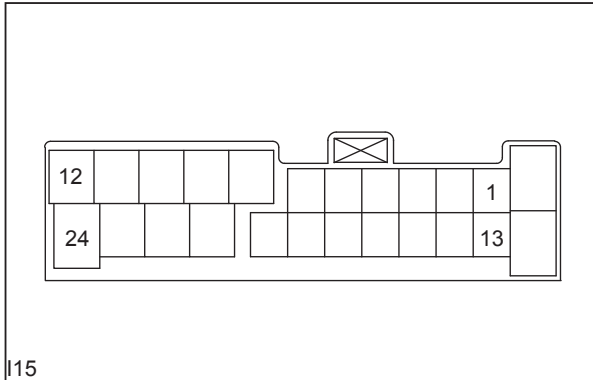
| Pin Number | Wire Width / Color | Function                         |
|------------|--------------------|----------------------------------|
| 1          | 0.50 R             | Battery power                    |
| 2          | 0.50 W             | Brake switch signal(normaly ON)  |
| 3          | 1.25 R/W           | IG1 power                        |
| 4          | 0.50 V             | Brake switch signal(normaly OFF) |



# Harness Connector View

Instrument Harness Connector (I--)

PEPS ECU-1(Gr/W) Connector

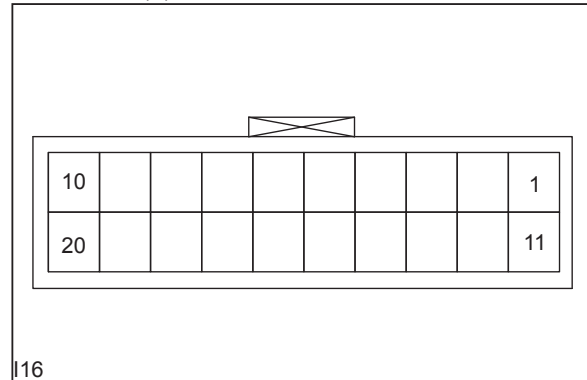


I15 Pin Definition

| Pin Number | Wire Width / Color | Function                       |
|------------|--------------------|--------------------------------|
| 1          | 1.25 R/O           | Battery power                  |
| 2          |                    | NC                             |
| 3          |                    | NC                             |
| 4          | 0.50 W             | Brake lamp signal              |
| 5          |                    | NC                             |
| 6          | 0.50 W/G           | Start button switch signal 1   |
| 7          | 0.50 BI/R          | ESCL enable signal             |
| 8          | 0.85 R             | PEPS power                     |
| 9          | 0.50 G/W           | IMMO antenna signal -          |
| 10         | 0.50 W/R           | IMMO antenna signal +          |
| 11         | 0.50 V/W           | Trunk microswitch signal       |
| 12         | 1.25 BI/Y          | ESCL Ground                    |
| 13         | 1.25 BI/O          | ESCL power                     |
| 14         | 0.50 BI/G          | ESCL lock states return signal |
| 15         | 0.50 BI/W          | LIN                            |
| 16         | 0.50 W             | BCAN-H                         |
| 17         | 0.50 W/B           | BCAN-L                         |
| 18         | 0.50 O/B           | IG1 power return signal        |
| 19         | 0.50 O/BI          | IG2 power return signal        |
| 20         | 0.50 O             | ACC power return signal        |
| 21         | 0.50 B/P           | IG1 relay PEPS control         |
| 22         | 0.50 B/BI          | IG2 relay PEPS control         |
| 23         | 0.50 B/R           | ACC relay PEPS control         |
| 24         | 1.25 B             | PEPS ECU Ground                |

Instrument Harness Connector (I--)

PEPS ECU-2(B) Connector



I16 Pin Definition

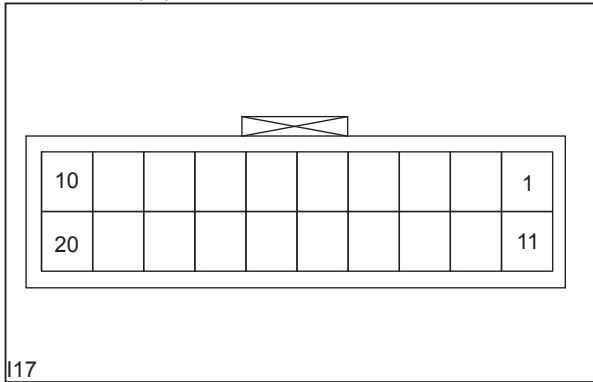
| Pin Number | Wire Width / Color | Function          |
|------------|--------------------|-------------------|
| 1          |                    | NC                |
| 2          |                    | NC                |
| 3          |                    | NC                |
| 4          |                    | NC                |
| 5          |                    | NC                |
| 6          |                    | NC                |
| 7          |                    | NC                |
| 8          |                    | NC                |
| 9          |                    | NC                |
| 10         |                    | NC                |
| 11         |                    | NC                |
| 12         | 0.50 Y/W           | RR TPMS antenna + |
| 13         | 0.50 Y/V           | RR TPMS antenna - |
| 14         | 0.50 Y/B           | LF TPMS antenna + |
| 15         | 0.50 Y/G           | LF TPMS antenna - |
| 16         | 0.50 Y/R           | LR TPMS antenna + |
| 17         | 0.50 Gr/R          | LR TPMS antenna - |
| 18         | 0.50 Y/Gr          | RF TPMS antenna + |
| 19         | 0.50 Y             | RF TPMS antenna - |
| 20         |                    | NC                |



# Harness Connector View

Instrument Harness Connector (I--)

PEPS ECU-3(Br) Connector



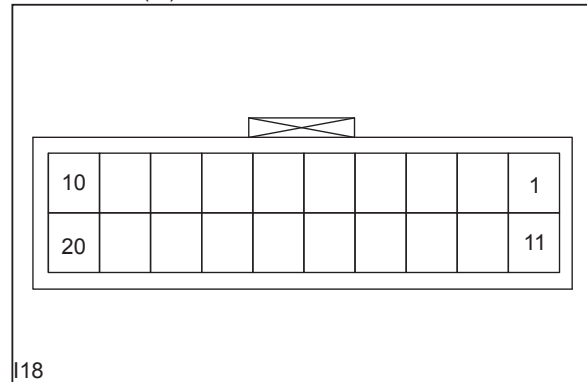
I17

I17 Pin Definition

| Pin Number | Wire Width / Color | Function                       |
|------------|--------------------|--------------------------------|
| 1          | 0.50 R             | Battery power                  |
| 2          |                    | NC                             |
| 3          | 0.50 Y/V           | ABS wheel speed signal input   |
| 4          | 0.50 O             | P/N gear switch signal         |
| 5          | 0.50 G/V           | Startor button switch signal 2 |
| 6          |                    | NC                             |
| 7          | 0.50 G/W           | LED power                      |
| 8          | 0.50 W/V           | LED control 1                  |
| 9          | 0.50 G/O           | LED control 2                  |
| 10         | 0.50 B/Y           | Startor relay control signal   |
| 11         | 0.50 G/Br          | Ground                         |
| 12         |                    | NC                             |
| 13         |                    | NC                             |
| 14         | 0.50 R             | Startor relay power            |
| 15         |                    | NC                             |
| 16         |                    | NC                             |
| 17         |                    | NC                             |
| 18         |                    | NC                             |
| 19         |                    | NC                             |
| 20         | 0.50 B             | Ground                         |

Instrument Harness Connector (I--)

PEPS ECU-4(BI) Connector



I18

I18 Pin Definition

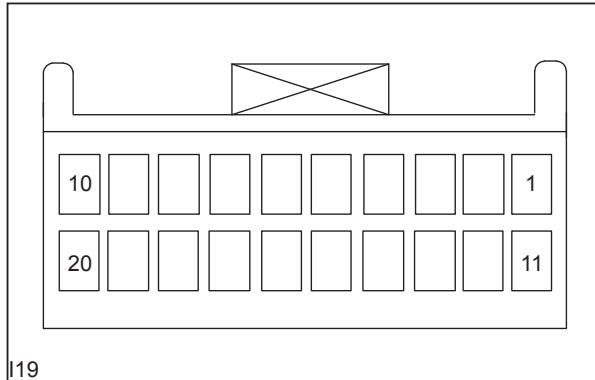
| Pin Number | Wire Width / Color | Function                          |
|------------|--------------------|-----------------------------------|
| 1          |                    | NC                                |
| 2          |                    | NC                                |
| 3          | 0.50 Y/G           | Ground                            |
| 4          |                    | NC                                |
| 5          | 0.50 G/B           | LF door antenna signal power      |
| 6          |                    | NC                                |
| 7          | 0.50 Y/W           | LF door antenna return signal     |
| 8          |                    | NC                                |
| 9          | 0.50 G/Y           | LF door handle microswitch signal |
| 10         | 0.50 Br/V          | Trunk antenna signal +            |
| 11         |                    | NC                                |
| 12         | 0.50 Gr/W          | Front antenna signal +            |
| 13         | 0.50 Gr/G          | Front antenna signal -            |
| 14         | 0.50 Gr/Bl         | Middle antenna signal +           |
| 15         | 0.50 Gr/Y          | Middle antenna signal -           |
| 16         | 0.50 W/Y           | LF door antenna signal -          |
| 17         | 0.50 Gr            | LF door antenna signal +          |
| 18         | 0.50 Gr/O          | Rear antenna signal +             |
| 19         | 0.50 Gr/B          | Rear antenna signal -             |
| 20         | 0.50 Gr/Br         | Trunk antenna signal -            |



# Harness Connector View

Instrument Harness Connector (I--)

RKE-1 Connector



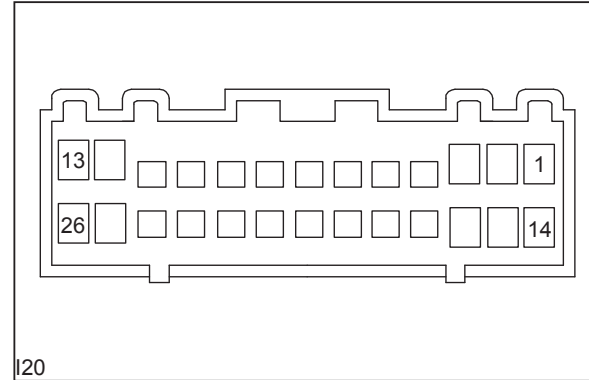
I19

I19 Pin Definition

| Pin Number | Wire Width / Color | Function                          |
|------------|--------------------|-----------------------------------|
| 1          | 0.50 B/R           | ACC relay control                 |
| 2          | 0.50 B/P           | IG1 relay control                 |
| 3          | 0.50 B/BI          | IG2 relay control                 |
| 4          | 0.50 B/Y           | Startor relay power return signal |
| 5          | 0.50 P/B           | Clutch switch signal              |
| 6          | 0.50 Gr            | Key Insert switch control         |
| 7          | 0.50 O/B           | IG1 power return signal           |
| 8          | 0.50 R             | Startor relay power               |
| 9          | 0.50 W/B           | BCAN-L                            |
| 10         |                    | NC                                |
| 11         | 0.50 W/G           | Ignition switch ACC relay control |
| 12         | 0.50 G/V           | IG1 relay control                 |
| 13         | 0.50 G/Br          | IG2 relay control                 |
| 14         | 0.50 G/W           | Start relay control               |
| 15         | 0.50 W/Y           | Ignition switch power             |
| 16         | 0.50 W             | Brake lamp signal                 |
| 17         | 0.50 O             | ACC power return signal           |
| 18         | 0.50 O/BI          | IG2 power return signal           |
| 19         | 0.50 W             | BCAN-H                            |
| 20         |                    | NC                                |

Instrument Harness Connector (I--)

RKE-2 Connector



I20

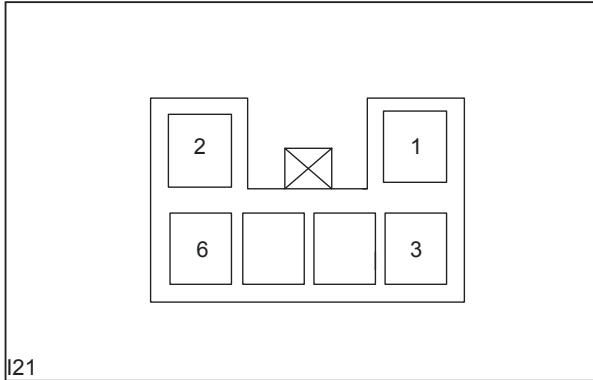
I20 Pin Definition

| Pin Number | Wire Width / Color | Function                    |
|------------|--------------------|-----------------------------|
| 1          | 0.85 R             | Battery power               |
| 2          |                    | NC                          |
| 3          |                    | NC                          |
| 4          |                    | NC                          |
| 5          |                    | NC                          |
| 6          | 0.50 Y/R           | LR TPMS antenna signal +    |
| 7          | 0.50 Y/B           | LF TPMS antenna signal +    |
| 8          | 0.50 Y/W           | RR TPMS antenna signal +    |
| 9          | 0.50 Y/Gr          | RF TPMS antenna signal +    |
| 10         | 0.50 W/R           | IMMO antenna signal +       |
| 11         | 0.50 G/O           | Ignition key aperture LED + |
| 12         |                    | NC                          |
| 13         | 0.50 R             | Battery power               |
| 14         | 1.25 B             | Ground                      |
| 15         |                    | NC                          |
| 16         |                    | NC                          |
| 17         |                    | NC                          |
| 18         |                    | NC                          |
| 19         | 0.50 Gr/R          | LR TPMS antenna signal -    |
| 20         | 0.50 Y/G           | LF TPMS antenna signal -    |
| 21         | 0.50 Y/V           | RR TPMS antenna signal -    |
| 22         | 0.50 Y             | RF TPMS antenna signal -    |
| 23         | 0.50 G/W           | IMMO antenna signal -       |
| 24         | 0.50 W/V           | Ignition key aperture LED - |
| 25         |                    | NC                          |
| 26         | 0.50 B             | Ground                      |



# Harness Connector View

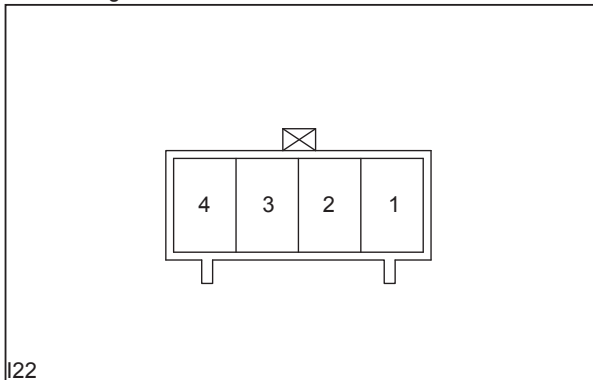
Instrument Harness Connector (I--)  
Hazard Warning Lamp Switch Connector



I21 Pin Definition

| Pin Number | Wire Width / Color | Function                                  |
|------------|--------------------|---|
| 1          | 0.85 B             | Ground                                    |
| 2          | 0.50 V             | Power                                     |
| 3          | 0.50 Y/G           | Hazard warning lamp switch warning signal |
| 4          | 0.50 BI            | Hazard warning lamp switch signal         |
| 5          |                    | NC  |
| 6          | 0.85 B             | Ground                                    |

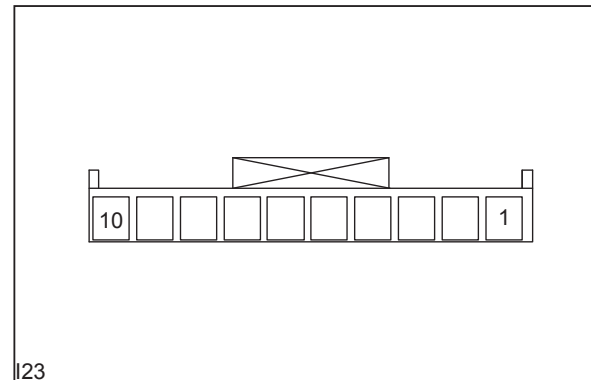
Ambient Light Sensor Connector



I22 Pin Definition

| Pin Number | Wire Width / Color | Function      |
|------------|--------------------|---------------|
| 1          | 0.50 BI/R          | Return signal |
| 2          | 0.50 BI/Y          | Power input   |
| 3          | 0.50 V/Y           | Signal        |
| 4          | 0.50 B             | Ground        |

Instrument Harness Connector (I--)  
Multi-Function Discreen Connector



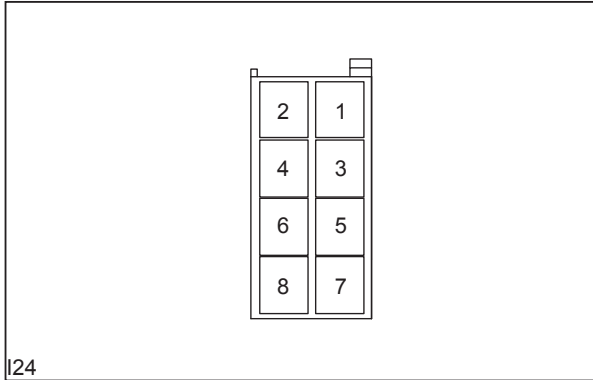
I23 Pin Definition

| Pin Number | Wire Width / Color | Function                          |
|------------|--------------------|-----------------------------------|
| 1          | 0.50 R             | Power                             |
| 2          | 0.50 B             | Ground                            |
| 3          |                    | NC                                |
| 4          | 0.50 R/W           | IG1 power                         |
| 5          | 0.50 P/BI          | Width lamp power                  |
| 6          |                    | NC                                |
| 7          | 0.50 G/W           | Speed signal                      |
| 8          | 0.50 G/B           | Driver seat belt switch signal    |
| 9          | 0.50 O             | Passenger seat belt switch signal |
| 10         | 0.50 G/W           | K-line                            |

# Harness Connector View

Instrument Harness Connector (I--)

CD-1 Connector

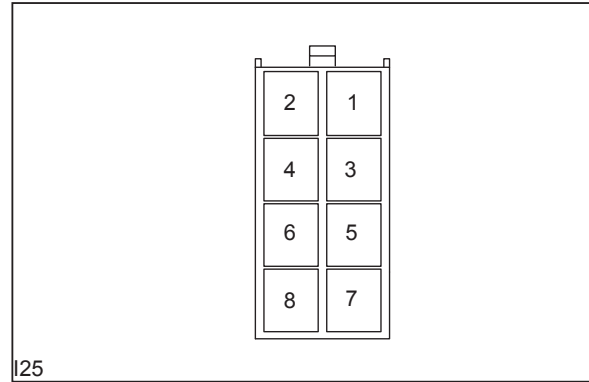


I24 Pin Definition

| Pin Number | Wire Width / Color | Function                              |
|------------|--------------------|---------------------------------------|
| 1          | 0.50 G/B           | CD multi function switch control line |
| 2          |                    | NC                                    |
| 3          | 0.50 V             | Width lamp power                      |
| 4          | 1.25 R/Y           | ACC power                             |
| 5          | 0.85 B             | Ground                                |
| 6          | 1.25 R             | Power                                 |
| 7          | 0.50 W/B           | BCAN-L                                |
| 8          | 0.50 W             | BCAN-H                                |

Instrument Harness Connector (I--)

CD-2 Connector



I25 Pin Definition

| Pin Number | Wire Width / Color | Function           |
|------------|--------------------|--------------------|
| 1          | 0.50 V/B           | RR speaker power - |
| 2          | 0.50 V             | RR speaker power + |
| 3          | 0.50 O/B           | RF speaker power - |
| 4          | 0.50 O             | RF speaker power+  |
| 5          | 0.50 W/B           | LF speaker power - |
| 6          | 0.50 W             | LF speaker power + |
| 7          | 0.50 Y/B           | LR speaker power + |
| 8          | 0.50 Y             | LR speaker power - |

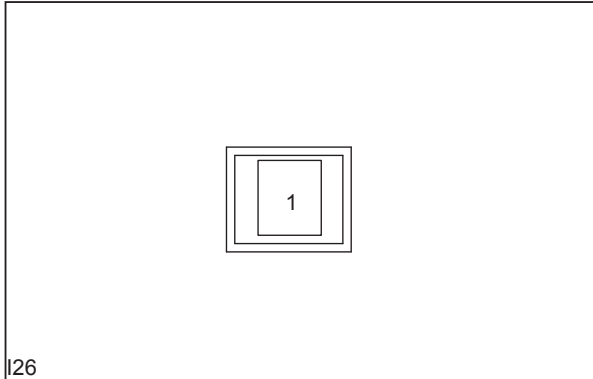


# Harness Connector View



## Instrument Harness Connector (I--)

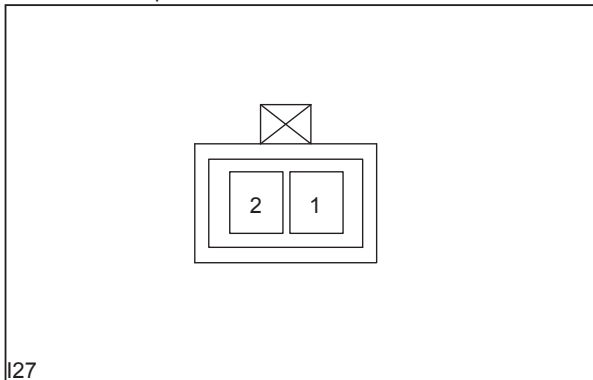
### CD Player Antenna Connector



#### I26 Pin Definition

| Pin Number | Wire Width / Color | Function  |
|------------|--------------------|-----------|
| 1          | 0.50 R/Y           | ACC power |

### Glove Box Lamp Connector

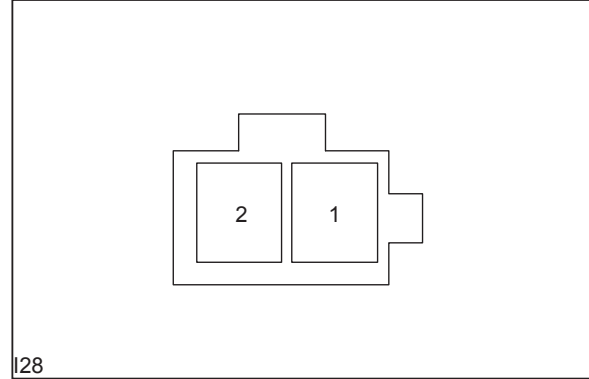


#### I27 Pin Definition

| Pin Number | Wire Width / Color | Function |
|------------|--------------------|----------|
| 1          | 0.50 B             | Ground   |
| 2          | 0.50 P/BI          | Power    |

## Instrument Harness Connector (I--)

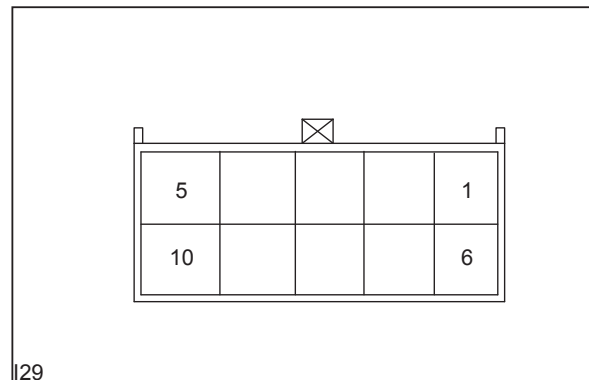
### RF Speaker Connector



#### I28 Pin Definition

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

### CD Control Panel Connector



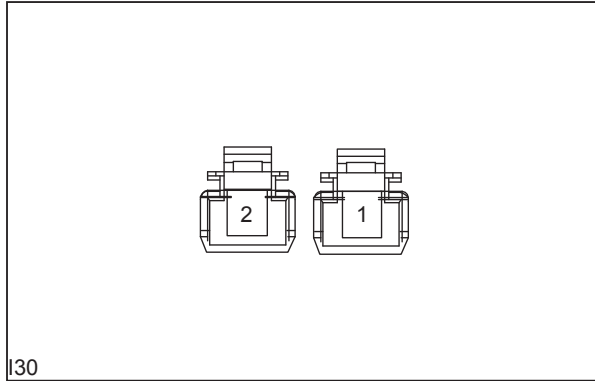
#### I29 Pin Definition

| Pin Number | Wire Width / Color | Function         |
|------------|--------------------|------------------|
| 1          | 0.50 R/Y           | ACC power        |
| 2          |                    | NC               |
| 3          | 0.50 B             | Ground           |
| 4          |                    | NC               |
| 5          | 0.50 V             | Width lamp power |
| 6          |                    | NC               |
| 7          | 0.50 W             | BCAN-H           |
| 8          | 0.50 W/B           | BCAN-L           |
| 9          |                    | NC               |
| 10         |                    | NC               |

# Harness Connector View

## Instrument Harness Connector (I--)

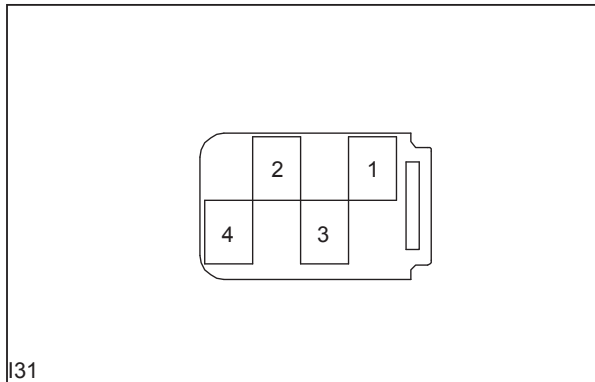
### IP Fuse and Relay Box Power Connector



#### I30 Pin Definition

| Pin Number | Wire Width / Color | Function  |
|------------|--------------------|-----------|
| 1          | 2.00 R/O           | ACC power |
| 2          | 2.00 B             | Ground    |

### Yaw Rate Sensor Connector

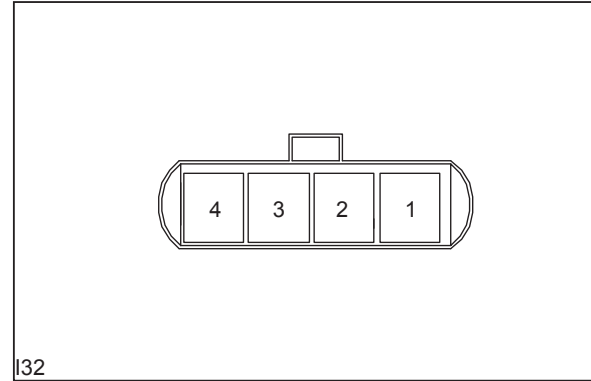


#### I31 Pin Definition

| Pin Number | Wire Width / Color | Function |
|------------|--------------------|----------|
| 1          | 0.50 B             | Ground   |
| 2          | 0.50 R/W           | Power    |
| 3          | 0.50 O             | Signal - |
| 4          | 0.50 O/B           | Signal + |

## Instrument Harness Connector (I--)

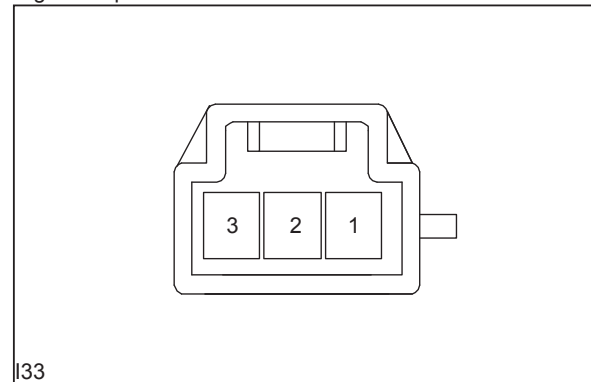
### Rear Oxygen Sensor Connector



#### I32 Pin Definition

| Pin Number | Wire Width / Color | Function       |
|------------|--------------------|----------------|
| 1          | 0.50 O/R           | Power          |
| 2          | 0.50 Y             | Heating signal |
| 3          | 0.50 G             | Signal         |
| 4          | 0.50 P             | Ground         |

### Cigar Lamper Connector



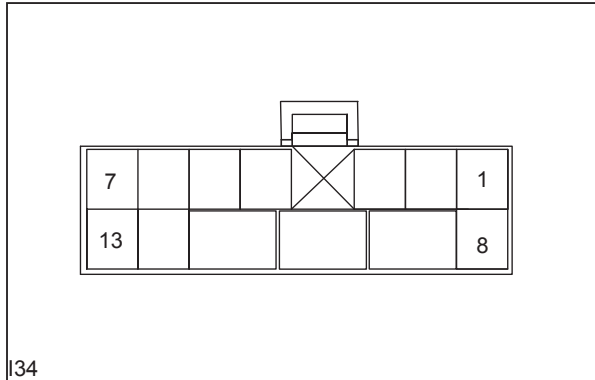
#### I33 Pin Definition

| Pin Number | Wire Width / Color | Function         |
|------------|--------------------|------------------|
| 1          | 0.50 V             | Width lamp power |
| 2          | 1.25 R             | ACC power        |
| 3          | 1.25 B             | Ground           |

# Harness Connector View

Instrument Harness Connector (I--)

Driver Side Seat Heating Model Connector



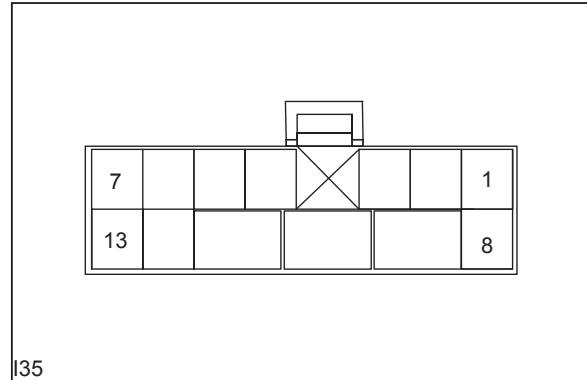
I34

I34 Pin Definition

| Pin Number | Wire Width / Color | Function  |
|------------|--------------------|---|
| 1          |                    | NC  |
| 2          |                    | NC  |
| 3          |                    | NC  |
| 4          | 0.50 Y/W           | Driver seat heating switch signal                 |
| 5          | 0.50 Y/R           | Driver high temperature working indication signal |
| 6          | 0.50 Y/O           | Driver low temperature working indication signal  |
| 7          |                    | NC  |
| 8          |                    | NC  |
| 9          | 3.00 R/Y           | Power   |
| 10         | 3.00 R/G           | Driver Seat heating module power                  |
| 11         | 3.00 B             | Ground  |
| 12         |                    | NC  |
| 13         |                    | NC  |

Instrument Harness Connector (I--)

Passenger Side Seat Heating Model Connector



I35

I35 Pin Definition

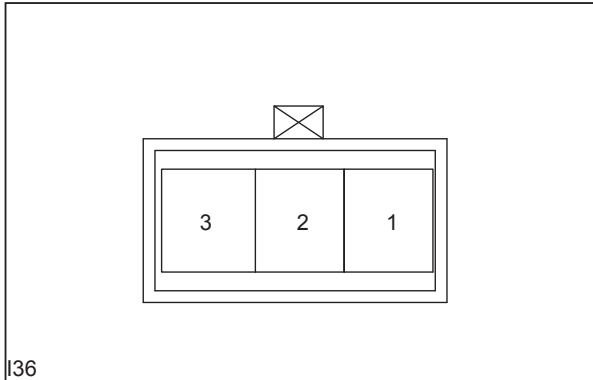
| Pin Number | Wire Width / Color | Function                                   |
|------------|--------------------|--|
| 1          |                    | NC   |
| 2          |                    | NC   |
| 3          |                    | NC   |
| 4          | 0.50 G/W           | Heating switch signal                      |
| 5          | 0.50 G/R           | High temperature working indication signal |
| 6          | 0.50 G/O           | Low temperature working indication signal  |
| 7          |                    | NC   |
| 8          |                    | NC   |
| 9          |                    | NC   |
| 10         | 3.00 R/G           | Passenger heating module power             |
| 11         | 3.00 B             | Ground                                     |
| 12         |                    | NC   |
| 13         |                    | NC   |





# Harness Connector View

Instrument Harness Connector (I--)  
Driver Side Seat Belt Switch Connector

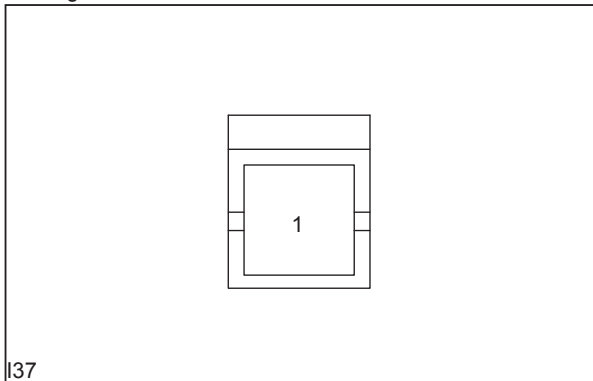


I36

I36 Pin Definition

| Pin Number | Wire Width / Color | Function |
|------------|--------------------|----------|
| 1          |                    | NC       |
| 2          | 0.50 G/B           | Signal   |
| 3          | 0.50 B             | Ground   |

Parking Brake Switch Connector

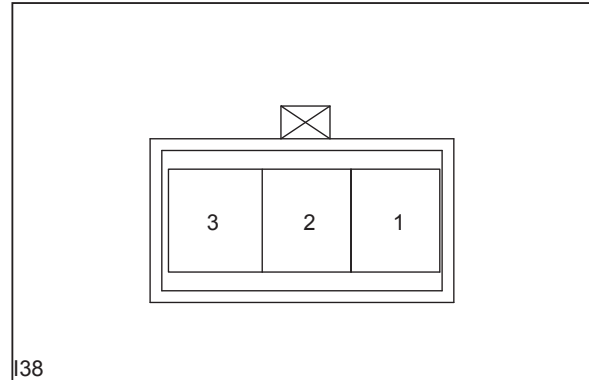


I37

I37 Pin Definition

| Pin Number | Wire Width / Color | Function |
|------------|--------------------|----------|
| 1          | 0.50 G/BI          | Signal   |

Instrument Harness Connector (I--)  
Passenger Side Seat Belt Switch Connector



I38

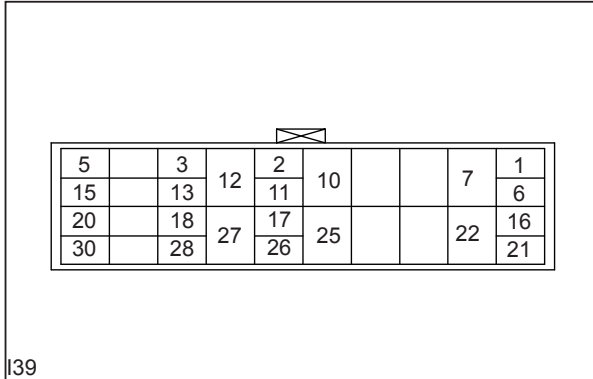
I38 Pin Definition

| Pin Number | Wire Width / Color | Function |
|------------|--------------------|----------|
| 1          |                    | NC       |
| 2          | 0.50 O             | Signal   |
| 3          | 0.50 B             | Ground   |

# Harness Connector View

Instrument Harness Connector (I--)

CAN System Connector



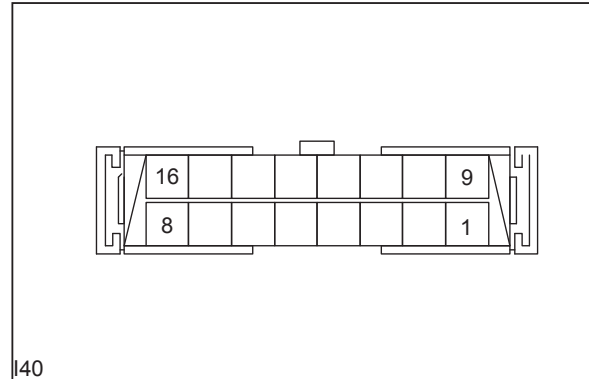
I39

I39 Pin Definition

| Pin Number | Wire Width / Color | Function |
|------------|--------------------|----------|
| 1          | 0.50 W             | BCAN-H   |
| 2          | 0.50 W             | BCAN-H   |
| 3          | 0.50 Y             | PCAN-H   |
| 4          | 0.50 Y             | PCAN-H   |
| 5          | 0.50 Y             | PCAN-H   |
| 6          | 0.50 W             | BCAN-H   |
| 7          | 0.50 W             | BCAN-H   |
| 8          | 0.50 W             | BCAN-H   |
| 9          | 0.50 W             | BCAN-H   |
| 10         | 0.50 W             | BCAN-H   |
| 11         | 0.50 W             | BCAN-H   |
| 12         | 0.50 Y             | PCAN-H   |
| 13         | 0.50 Y             | PCAN-H   |
| 14         | 0.50 Y             | PCAN-H   |
| 15         | 0.50 Y             | PCAN-H   |
| 16         | 0.50 W/B           | BCAN-L   |
| 17         | 0.50 W/B           | BCAN-L   |
| 18         | 0.50 Y/B           | PCAN-L   |
| 19         | 0.50 Y/B           | PCAN-L   |
| 20         | 0.50 Y/B           | PCAN-L   |
| 21         | 0.50 W/B           | BCAN-L   |
| 22         | 0.50 W/B           | BCAN-L   |
| 23         | 0.50 W/B           | BCAN-L   |
| 24         | 0.50 W/B           | BCAN-L   |
| 25         | 0.50 W/B           | BCAN-L   |
| 26         | 0.50 W/B           | BCAN-L   |
| 27         | 0.50 Y/B           | PCAN-L   |
| 28         | 0.50 Y/B           | PCAN-L   |
| 29         | 0.50 Y/B           | PCAN-L   |
| 30         | 0.50 Y/B           | PCAN-L   |

Instrument Harness Connector (I--)

Diagnose Interface Connector



I40

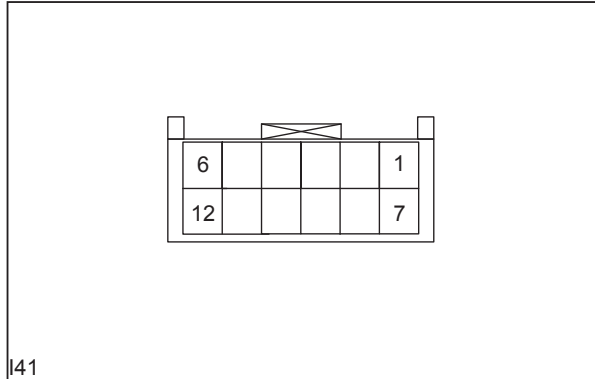
I40 Pin Definition

| Pin Number | Wire Width / Color | Function  |
|------------|--------------------|-----------|
| 1          |                    | NC        |
| 2          | 0.50 W             | BCAN-H    |
| 3          |                    | NC        |
| 4          | 0.50 B             | Ground    |
| 5          | 0.50 B             | Ground    |
| 6          | 0.50 Y             | PCAN-H    |
| 7          | 0.50 Br            | K-line    |
| 8          | 0.50 R/W           | IG1 power |
| 9          |                    | NC        |
| 10         | 0.50 W/B           | BCAN-L    |
| 11         |                    | NC        |
| 12         |                    | NC        |
| 13         |                    | NC        |
| 14         | 0.50 Y/B           | PCAN-L    |
| 15         |                    | NC        |
| 16         | 0.50 R             | Power     |

# Harness Connector View

## Instrument Harness Connector (I--)

### Steering Wheel Switch Connector

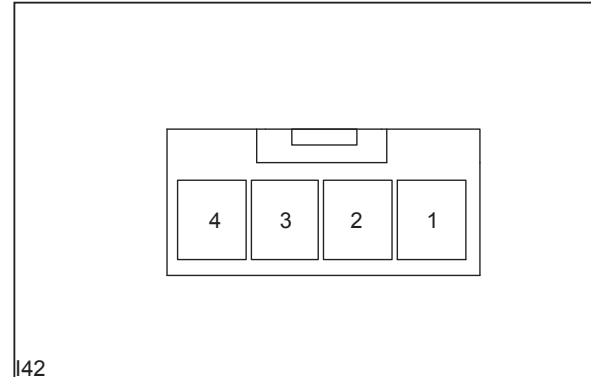


#### I41 Pin Definition

| Pin Number | Wire Width / Color | Function                     |
|------------|--------------------|------------------------------|
| 1          |                    | NC                           |
| 2          | 0.50 BI            | Cruise control switch signal |
| 3          |                    | NC                           |
| 4          |                    | NC                           |
| 5          |                    | NC                           |
| 6          |                    | NC                           |
| 7          |                    | NC                           |
| 8          | 0.50 B/W           | Cruise control switch signal |
| 9          | 0.50 G/B           | CD switch signal             |
| 10         | 0.50 W             | Horn relay switch control    |
| 11         | 0.50 B             | Ground                       |
| 12         | 0.50 V             | Width lamp power             |

## Instrument Harness Connector (I--)

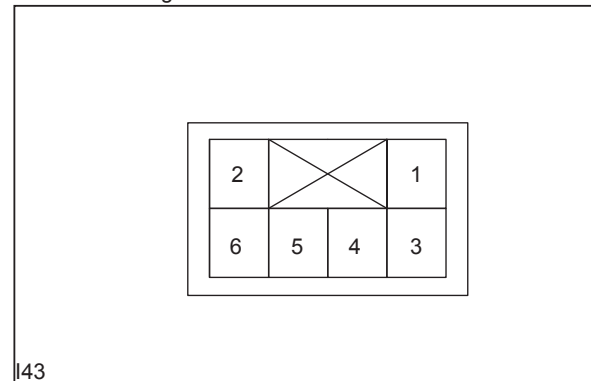
### Steering Angle Sensor Connector



#### I42 Pin Definition

| Pin Number | Wire Width / Color | Function  |
|------------|--------------------|-----------|
| 1          | 0.50 B             | Ground    |
| 2          | 0.50 R/W           | IG1 power |
| 3          | 0.50 Y             | PCAN-H    |
| 4          | 0.50 Y/B           | PCAN-L    |

### Electric Steering Lock Connector



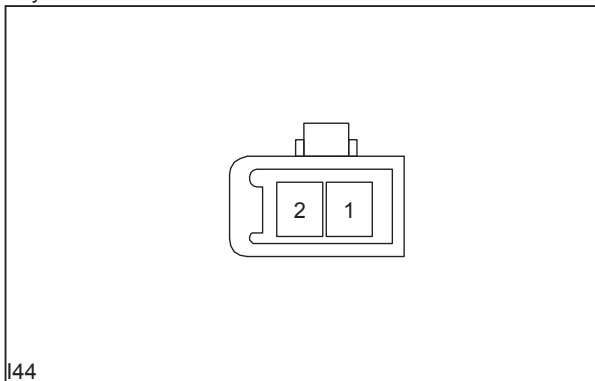
#### I43 Pin Definition

| Pin Number | Wire Width / Color | Function                  |
|------------|--------------------|---------------------------|
| 1          |                    | NC                        |
| 2          | 1.25 BI/Y          | Ground                    |
| 3          | 1.25 BI/O          | Power input               |
| 4          | 0.50 BI/R          | Enable signal             |
| 5          | 0.50 BI/G          | Lock status return signal |
| 6          | 0.50 BI/W          | ESCL-LIN                  |

# Harness Connector View

## Instrument Harness Connector (I--)

### Key Insert Switch Connector

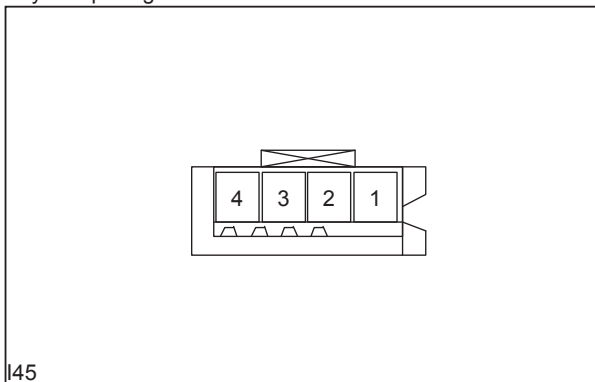


I44

### I44 Pin Definition

| Pin Number | Wire Width / Color | Function                         |
|------------|--------------------|----------------------------------|
| 1          | 0.50 Gr            | Key Insert switch control signal |
| 2          | 0.50 W/Y           | Power                            |

### Key Lamp Ring Connector



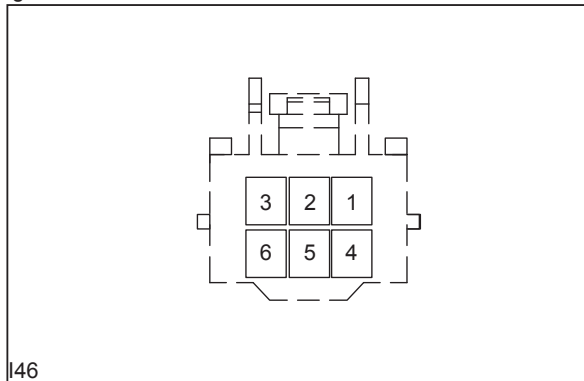
I45

### I45 Pin Definition

| Pin Number | Wire Width / Color | Function              |
|------------|--------------------|-----------------------|
| 1          | 0.50 G/W           | IMMO antenna signal - |
| 2          | 0.50 W/V           | Key lamp ring LED -   |
| 3          | 0.50 G/O           | Key lamp ring LED +   |
| 4          | 0.50 W/R           | IMMO antenna signal + |

## Instrument Harness Connector (I--)

### Ignition Switch Connector



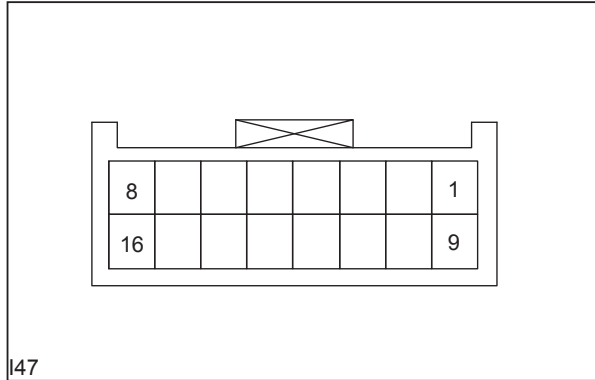
I46

### I46 Pin Definition

| Pin Number | Wire Width / Color | Function            |
|------------|--------------------|---------------------|
| 1          | 0.50 W/G           | ACC relay control   |
| 2          | 0.50 G/V           | IG1 relay control   |
| 3          | 0.50 W/Y           | Power               |
| 4          | 0.50 G/Br          | IG2 relay control   |
| 5          | 0.50 W/Y           | Power               |
| 6          | 0.50 G/W           | Start relay control |

# Harness Connector View

Instrument Harness Connector (I--)  
Combination Switch Connector

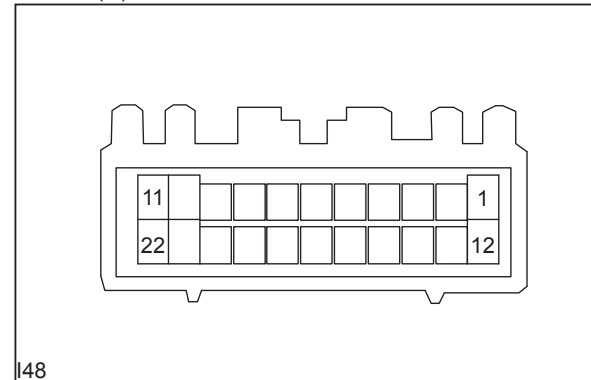


I47

I47 Pin Definition

| Pin Number | Wire Width / Color | Function                         |
|------------|--------------------|----------------------------------|
| 1          |                    | NC                               |
| 2          |                    | NC                               |
| 3          | 0.50 G/W           | Wiper switch gear signal         |
| 4          |                    | NC                               |
| 5          | 0.50 G/R           | Wiper switch adjust speed signal |
| 6          | 0.50 W/R           | Ground                           |
| 7          | 0.50 Br            | Width lamp control               |
| 8          | 0.50 W/G           | Headlamp control                 |
| 9          |                    | NC                               |
| 10         |                    | NC                               |
| 11         |                    | NC                               |
| 12         | 0.50 Y/Br          | Trun lamp control                |
| 13         | 0.50 BI            | Rear fog lamp control            |
| 14         |                    | NC                               |
| 15         |                    | NC                               |
| 16         |                    | NC                               |

Instrument Harness Connector (I--)  
FBCM-1(G) Connector



I48

I48 Pin Definition

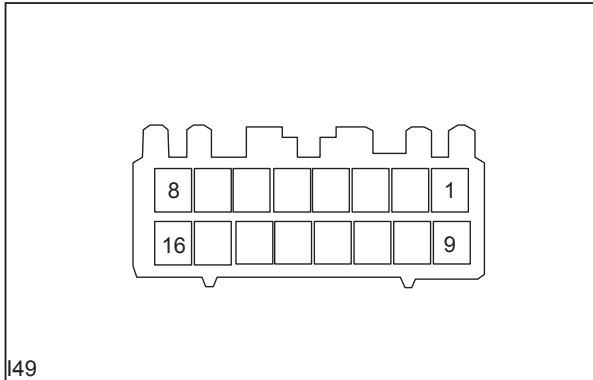
| Pin Number | Wire Width / Color | Function                            |
|------------|--------------------|-------------------------------------|
| 1          | 1.25 R/W           | FBCM IG1 power                      |
| 2          | 0.50 B             | Ground                              |
| 3          |                    | NC                                  |
| 4          | 0.50 R/G           | Trunk ON signal                     |
| 5          |                    | NC                                  |
| 6          |                    | NC                                  |
| 7          | 0.50 W/B           | BCAN-L                              |
| 8          | 0.50 W             | BCAN-H                              |
| 9          | 0.50 G             | LIN                                 |
| 10         | 0.50 G/Gr          | Rear lamp delay control             |
| 11         | 1.25 R             | FBCM power                          |
| 12         | 0.85 V             | High / low beam lamp switch control |
| 13         | 0.50 O             | Low beam relay control              |
| 14         |                    | NC                                  |
| 15         |                    | NC                                  |
| 16         |                    | NC                                  |
| 17         |                    | NC                                  |
| 18         |                    | NC                                  |
| 19         |                    | NC                                  |
| 20         |                    | NC                                  |
| 21         | 1.25 B             | Ground                              |
| 22         | 1.25 B             | Ground                              |



# Harness Connector View

Instrument Harness Connector (I--)

FBCM-2(W) Connector



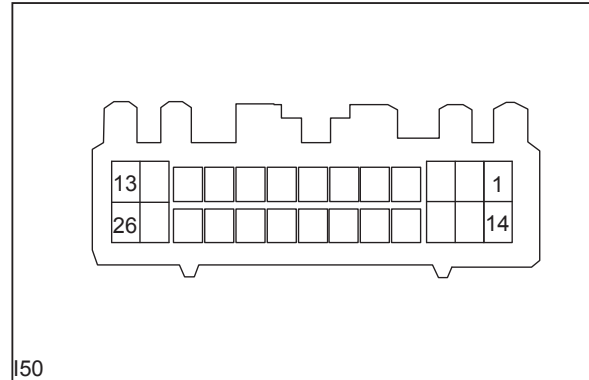
I49

I49 Pin Definition

| Pin Number | Wire Width / Color | Function                          |
|------------|--------------------|-----------------------------------|
| 1          | 0.50 Y/BI          | Wiper motor return switch signal  |
| 2          |                    | NC                                |
| 3          | 0.50 O             | LF door switch signal             |
| 4          | 0.50 P             | RF door switch signal             |
| 5          | 0.50 Br/Y          | Switch for reversing lamp signal  |
| 6          |                    | NC                                |
| 7          |                    | NC                                |
| 8          |                    | NC                                |
| 9          | 0.50 Br/W          | Daytime running lamp power        |
| 10         |                    | NC                                |
| 11         | 0.50 Gr            | LR door switch signal             |
| 12         | 0.50 G             | RR door switch signal             |
| 13         | 0.50 B/BI          | Hazard warning lamp switch signal |
| 14         | 0.50 G/O           | Switch signal                     |
| 15         |                    | NC                                |
| 16         |                    | NC                                |

Instrument Harness Connector (I--)

FBCM-3 Connector



I50

I50 Pin Definition

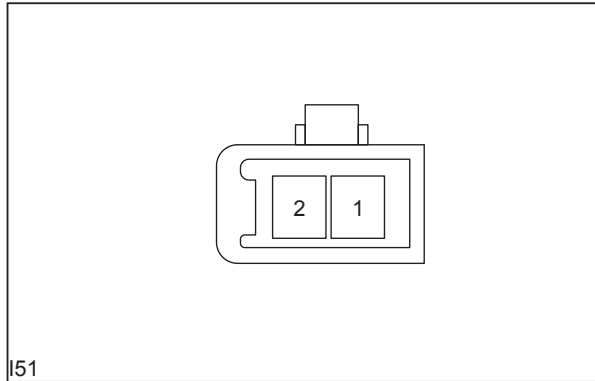
| Pin Number | Wire Width / Color | Function                             |
|------------|--------------------|--------------------------------------|
| 1          | 2.00 R             | Wiper, washing motor power           |
| 2          |                    | NC                                   |
| 3          | 0.50 BI/R          | Front windshield washing motor power |
| 4          | 0.50 Y/Br          | Trun lamp control switch             |
| 5          | 0.50 BI            | Rear fog lamp control                |
| 6          | 0.50 Br            | Width lamp control                   |
| 7          | 0.50 W/G           | Headlamp control                     |
| 8          |                    | NC                                   |
| 9          | 0.50 W/R           | Ground                               |
| 10         | 0.50 BI/Y          | Ambient lamp sensor signal input     |
| 11         | 0.50 BI/R          | Ambient lamp sensor signal           |
| 12         | 0.85 P/BI          | Width lamp power                     |
| 13         | 1.25 R             | Trun lamp, width lamp power          |
| 14         | 0.85 B             | Ground                               |
| 15         | 1.25 G/Y           | Wiper motor high speed control power |
| 16         | 1.25 G/BI          | Wiper motor low speed control power  |
| 17         |                    | NC                                   |
| 18         | 0.50 G/W           | Wiper switch gear signal             |
| 19         | 0.50 G/R           | Wiper switch speed signal            |
| 20         |                    | NC                                   |
| 21         |                    | NC                                   |
| 22         |                    | NC                                   |
| 23         |                    | NC                                   |
| 24         |                    | NC                                   |
| 25         | 0.50 R/Y           | RF rearview mirror steering signal   |
| 26         | 0.85 Y/G           | LF rearview mirror steering signal   |



# Harness Connector View

## Instrument Harness Connector (I--)

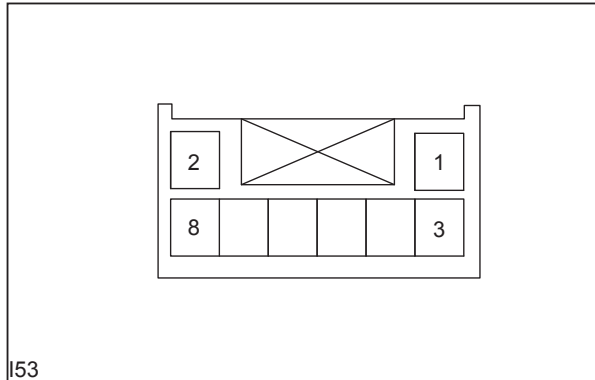
### Front Width Antenna Connector



#### I51 Pin Definition

| Pin Number | Wire Width / Color | Function         |
|------------|--------------------|------------------|
| 1          | 0.50 Gr/G          | Antenna signal - |
| 2          | 0.50 Gr/W          | Antenna signal + |

### Button Start Connector

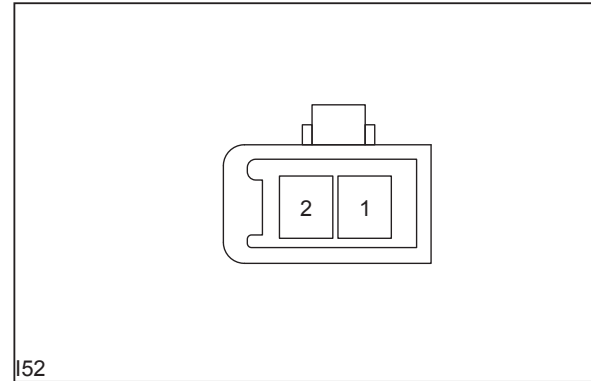


#### I53 Pin Definition

| Pin Number | Wire Width / Color | Function                       |
|------------|--------------------|--------------------------------|
| 1          | 0.50 G/W           | IMMO antenna signal -          |
| 2          | 0.50 W/R           | IMMO antenna signal +          |
| 3          | 0.50 W/G           | Startor button switch signal 1 |
| 4          | 0.50 G/O           | LED control 2                  |
| 5          | 0.50 W/V           | LED control 1                  |
| 6          | 0.50 G/W           | LED power                      |
| 7          | 0.50 G/Br          | Ground                         |
| 8          | 0.50 G/V           | Startor button switch signal 2 |

## Instrument Harness Connector (I--)

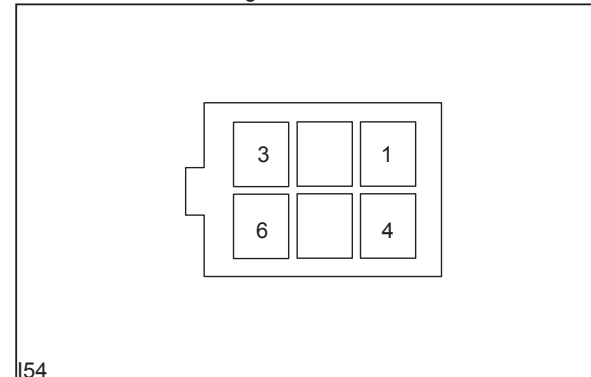
### Middle Width Antenna Connector



#### I52 Pin Definition

| Pin Number | Wire Width / Color | Function         |
|------------|--------------------|------------------|
| 1          | 0.50 Gr/Y          | Antenna signal - |
| 2          | 0.50 Gr/Bl         | Antenna signal + |

### Driver Side Seat Heating Switch Connector



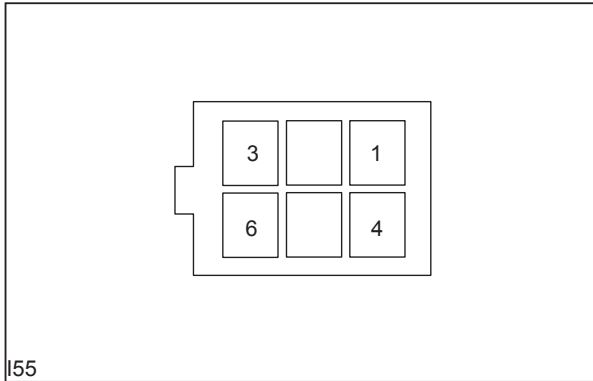
#### I54 Pin Definition

| Pin Number | Wire Width / Color | Function  |
|------------|--------------------|---|
| 1          | 0.50 Y/O           | Driver low temperature working indication signal  |
| 2          | 0.50 Y/R           | Driver high temperature working indication signal |
| 3          | 0.50 V             | Width lamp power                                  |
| 4          | 0.50 Y/W           | Driver seat heating switch signal                 |
| 5          | 0.50 B             | Ground  |
| 6          | 0.50 B             | Ground  |

# Harness Connector View

## Instrument Harness Connector (I--)

### Passenger Side Seat Heating Switch Connector

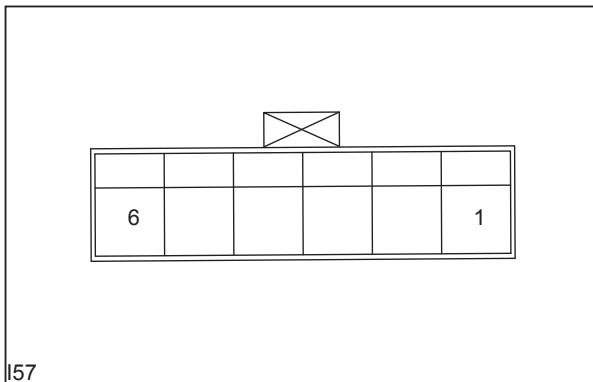


I55

#### I55 Pin Definition

| Pin Number | Wire Width / Color | Function                                   |
|------------|--------------------|--|
| 1          | 0.50 G/O           | Low temperature working indication signal  |
| 2          | 0.50 G/R           | High temperature working indication signal |
| 3          | 0.50 V             | Width lamp power                           |
| 4          | 0.50 G/W           | Passenger seat heating switch signal       |
| 5          | 0.50 B             | Ground                                     |
| 6          | 0.50 B             | Ground                                     |

### EPS Connector



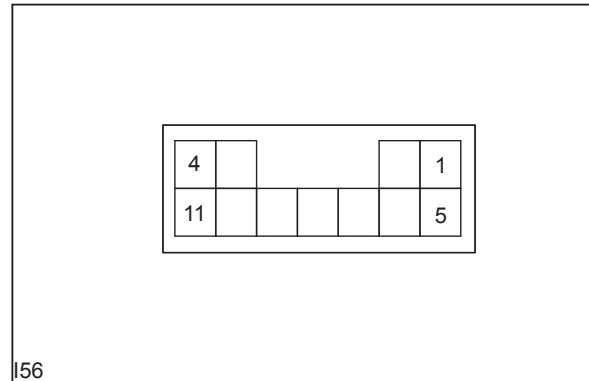
I57

#### I57 Pin Definition

| Pin Number | Wire Width / Color | Function  |
|------------|--------------------|-----------|
| 1          | 0.50 R/W           | IG1 power |
| 2          |                    | NC        |
| 3          | 0.50 Y/B           | PCAN-L    |
| 4          | 0.50 Y             | PCAN-H    |
| 5          |                    | NC        |
| 6          |                    | NC        |

## Instrument Harness Connector (I--)

### Shift Level Switch Connector



I56

#### I56 Pin Definition

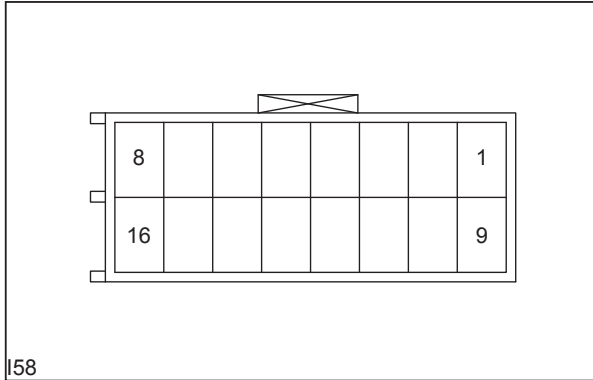
| Pin Number | Wire Width / Color | Function                  |
|------------|--------------------|---------------------------|
| 1          |                    | NC                        |
| 2          | 0.50 W             | P gear unlock -           |
| 3          | 0.50 B             | Ground                    |
| 4          | 0.50 V             | Width lamp power          |
| 5          | 0.50 BI            | Manual mode signal over - |
| 6          | 0.50 Y             | Manual mode signal over + |
| 7          |                    | NC                        |
| 8          |                    | NC                        |
| 9          |                    | NC                        |
| 10         | 0.50 W             | P gear unlock -           |
| 11         | 0.50 G             | P gear unlock +           |



# Harness Connector View

Instrument Harness Connector (I--)

Electronic Parking Brake Switch Connector



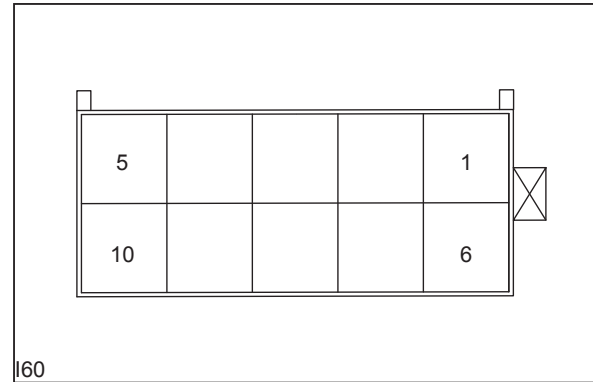
I58

I58 Pin Definition

| Pin Number | Wire Width / Color | Function |
|------------|--------------------|----------|
| 1          | 0.50 Y/O           |          |
| 2          | 0.50 Y/R           |          |
| 3          | 0.50 Y/W           |          |
| 4          | 0.50 V             |          |
| 5          | 0.50 B             |          |
| 6          |                    | NC       |
| 7          |                    | NC       |
| 8          |                    | NC       |
| 9          |                    | NC       |
| 10         |                    | NC       |
| 11         |                    | NC       |
| 12         |                    | NC       |
| 13         |                    | NC       |
| 14         |                    | NC       |
| 15         |                    | NC       |
| 16         |                    | NC       |

Instrument Harness Connector (I--)

Snow Model Switch Connector



I60

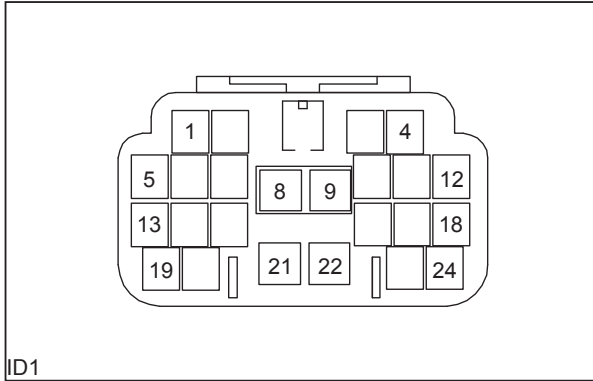
I60 Pin Definition

| Pin Number | Wire Width / Color | Function               |
|------------|--------------------|------------------------|
| 1          | 0.50 V             | Width lamp power       |
| 2          |                    | NC                     |
| 3          |                    | NC                     |
| 4          |                    | NC                     |
| 5          | 0.50 V             | Snow model model power |
| 6          | 0.50 B             | Ground                 |
| 7          | 0.50 W             | P gear unlock -        |
| 8          |                    | NC                     |
| 9          |                    | NC                     |
| 10         | 0.50 B             | Ground                 |

# Harness Connector View

Instrument Harness Connector (I--)

Instrument Harness to LF Door Harness Connector



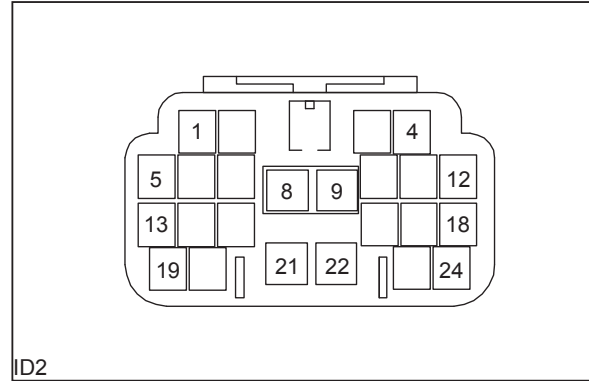
ID1

ID1 Pin Definition

| Pin Number | Wire Width / Color | Function                              |
|------------|--------------------|---------------------------------------|
| 1          | 0.50 Y/G           | LR side turn lamp power               |
| 2          | 0.50 R             | LF door controller power              |
| 3          | 0.50 W             | LF door lock signal power +           |
| 4          | 0.50 W/B           | LF door lock signal power -           |
| 5          | 0.50 G/Y           | LF door antenna microswitch signal    |
| 6          | 0.50 Gr            | LF door antenna signal +              |
| 7          | 0.50 R/W           | LF rearview mirror defrost power      |
| 8          | 0.50 R/W           | LF rearview mirror switch power       |
| 9          | 2.00 R             | LF door controller switch power       |
| 10         | 0.50 Y/Gr          | LR rearview mirror left/right signal  |
| 11         | 0.50 Y/BI          | RR rearview mirror up/down signal     |
| 12         | 0.50 Y/W           | RR rearview mirror switch common line |
| 13         | 0.50 W/Y           | LF door antenna signal -              |
| 14         | 0.50 Y/W           | LF door antenna return signal         |
| 15         | 0.50 G/B           | LF door antenna signal power          |
| 16         |                    | NC                                    |
| 17         | 0.50 G/BI          | RR rearview mirror spread signal      |
| 18         | 0.50 G             | RR rearview mirror fold signal        |
| 19         | 0.50 Y/G           | LF door antenna signal ground         |
| 20         |                    | NC                                    |
| 21         |                    | NC                                    |
| 22         | 2.00 B             | LF door handle switch ground          |
| 23         | 0.50 V             | Width lamp power                      |
| 24         | 0.50 G             | LIN                                   |

Instrument Harness Connector (I--)

Instrument Harness to RF Door Harness Connector



ID2

ID2 Pin Definition

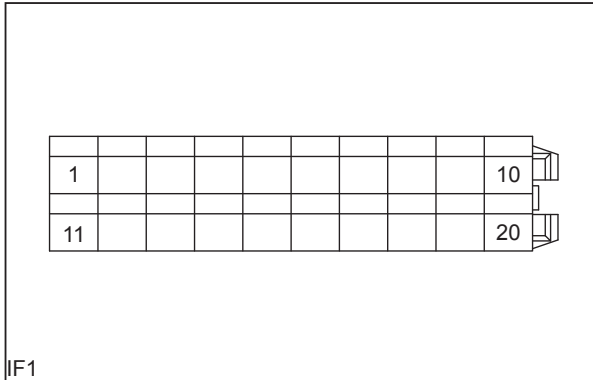
| Pin Number | Wire Width / Color | Function                              |
|------------|--------------------|---------------------------------------|
| 1          | 0.50 R/Y           | RR rearview mirror steering signal    |
| 2          | 0.50 R             | Switch off electrical output power    |
| 3          | 0.50 O/B           | RF speaker signal -                   |
| 4          | 0.50 O             | RF speaker signal +                   |
| 5          | 0.50 Y/Gr          | RR rearview mirror control            |
| 6          | 0.50 Y/BI          | RR rearview mirror control            |
| 7          | 0.50 Y/W           | RR rearview mirror switch common line |
| 8          | 2.00 R/B           | RF door armrest switch power          |
| 9          |                    | NC                                    |
| 10         |                    | NC                                    |
| 11         |                    | NC                                    |
| 12         | 0.50 R/W           | Heating power                         |
| 13         | 0.50 G/BI          | Spread signal                         |
| 14         | 0.50 G             | Folded signal                         |
| 15         |                    | NC                                    |
| 16         |                    | NC                                    |
| 17         | 0.50 V             | Width lamp power                      |
| 18         | 0.50 G             | LIN                                   |
| 19         |                    | NC                                    |
| 20         |                    | NC                                    |
| 21         |                    | NC                                    |
| 22         | 2.00 B             | Ground                                |
| 23         |                    | NC                                    |
| 24         |                    | NC                                    |



# Harness Connector View

Instrument Harness Connector (I--)

Instrument Harness to Left Body Harness Connector



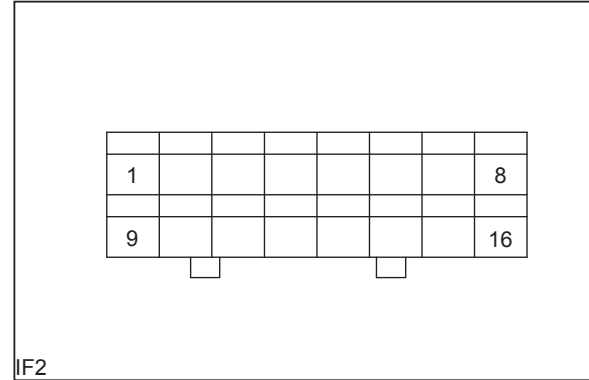
IF1

IF1 Pin Definition

| Pin Number | Wire Width / Color | Function                     |
|------------|--------------------|------------------------------|
| 1          | 0.50 Y/R           | LR TPMS antenna signal +     |
| 2          | 0.50 G/Gr          | Rear dome lamp delay control |
| 3          | 0.50 O             | LF door lamp signal          |
| 4          | 0.50 G/R           | Fuel sensor signal           |
| 5          | 0.50 B             | Ground                       |
| 6          | 0.50 Gr/O          | Rear antenna signal +        |
| 7          | 0.50 Gr/B          | Rear antenna signal -        |
| 8          | 0.50 Br/V          | Trunk antenna signal +       |
| 9          | 0.50 Gr/Br         | Trunk antenna signal -       |
| 10         | 0.50 V/W           | Trunk microswitch signal     |
| 11         | 0.50 Gr/R          | LR TPMS antenna signal -     |
| 12         |                    | NC                           |
| 13         | 0.50 Gr            | LR door lamp switch signal   |
| 14         |                    | NC                           |
| 15         |                    | NC                           |
| 16         |                    | NC                           |
| 17         |                    | NC                           |
| 18         |                    | NC                           |
| 19         |                    | NC                           |
| 20         |                    | NC                           |

Instrument Harness Connector (I--)

Instrument Harness to Left Body Harness Connector



IF2

IF2 Pin Definition

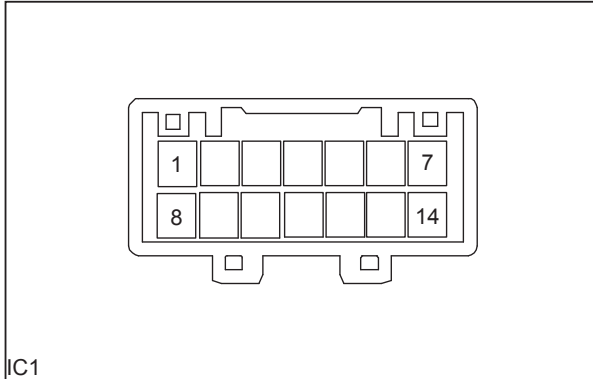
| Pin Number | Wire Width / Color | Function                       |
|------------|--------------------|--------------------------------|
| 1          | 1.25 R/Gr          | Trunk lamp power               |
| 2          | 0.85 R             | Power                          |
| 3          | 2.00 R/W           | Power                          |
| 4          | 0.50 W             | Rear brake lamp power          |
| 5          | 2.00 R/O           | Switch power                   |
| 6          | 0.50 V             | Width lamp power               |
| 7          | 0.50 G             | LIN                            |
| 8          | 0.50 W             | BCAN-H                         |
| 9          | 0.50 R/G           | Rear dome lamp power           |
| 10         | 1.25 R             | Lamp power                     |
| 11         | 0.50 G/R           | Reverse image power            |
| 12         |                    | NC                             |
| 13         | 0.50 R             | LR door controller power       |
| 14         | 0.50 O/R           | Automatic ON Trunk model power |
| 15         |                    | NC                             |
| 16         | 0.50 W/B           | BCAN-L                         |



# Harness Connector View

Instrument Harness Connector (I--)

Instrument Harness to Right Body Harness Connector

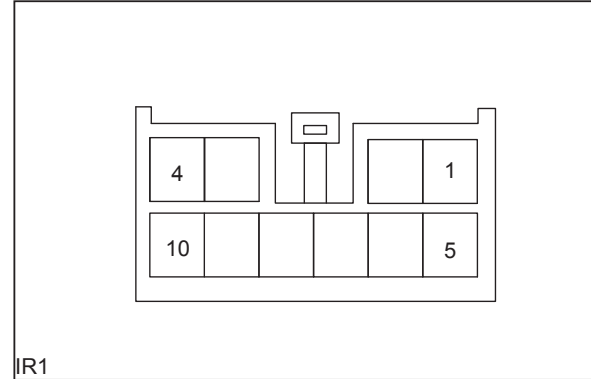


IC1 Pin Definition

| Pin Number | Wire Width / Color | Function                        |
|------------|--------------------|---------------------------------|
| 1          | 0.50 Y/W           | RR TPMS antenna +               |
| 2          | 0.50 P             | RF door switch signal           |
| 3          | 0.50 R             | RR door controller power        |
| 4          | 0.50 V/B           | RR speaker power -              |
| 5          | 0.50 V             | RR speaker power +              |
| 6          | 0.50 Br/P          | RR wheel speed sensor signal +  |
| 7          | 0.50 Br/G          | RR wheel speed sensor signal -  |
| 8          | 0.50 Y/V           | RR TPMS antenna -               |
| 9          | 0.50 G             | RR door switch signal           |
| 10         | 2.00 R/W           | RR door controller switch power |
| 11         | 0.50 Y/B           | LR speaker power -              |
| 12         | 0.50 Y             | LR speaker power +              |
| 13         | 0.50 V             | Width lamp power                |
| 14         | 0.50 G             | LIN                             |

Instrument Harness Connector (I--)

Instrument Harness to Roof Harness Connector



IR1 Pin Definition

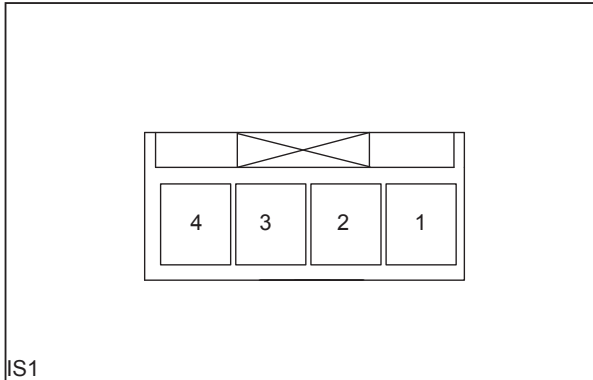
| Pin Number | Wire Width / Color | Function                            |
|------------|--------------------|-------------------------------------|
| 1          | 0.50 R/Y           | Sunroof controller power            |
| 2          |                    | NC                                  |
| 3          | 0.50 G             | LIN                                 |
| 4          | 0.50 R/G           | Front dome lamp power               |
| 5          |                    | NC                                  |
| 6          | 0.50 B             | Ground                              |
| 7          | 2.00 B             | Ground                              |
| 8          | 2.00 R/W           | Sunroof motor power                 |
| 9          | 0.50 W             | IG1 power                           |
| 10         | 0.50 G/Gr          | Front dome lamp switch delay signal |



# Harness Connector View

Instrument Harness Connector (I--)

Instrument Harness to SRS Harness Connector

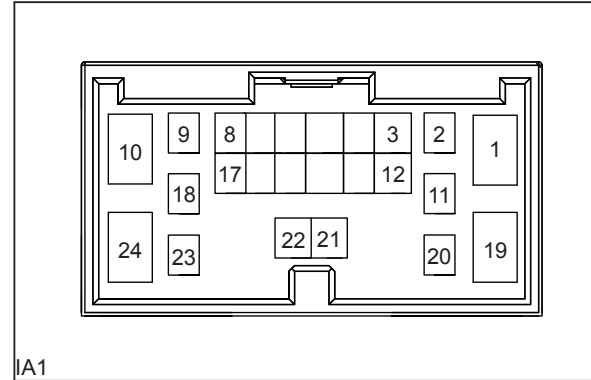


IS1 Pin Definition

| Pin Number | Wire Width / Color | Function  |
|------------|--------------------|-----------|
| 1          | 0.50 R/W           | IG1 power |
| 2          | 0.50 Y             | PCAN-H    |
| 3          | 0.50 Y/B           | PCAN-L    |
| 4          |                    | NC        |

Instrument Harness Connector (I--)

Instrument Harness to AC Harness Connector



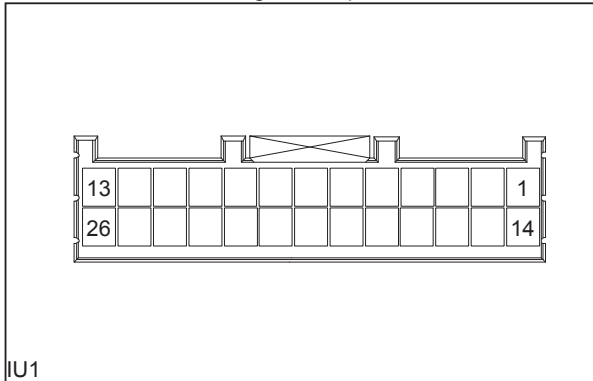
IA1 Pin Definition

| Pin Number | Wire Width / Color | Function                                 |
|------------|--------------------|--|
| 1          | 3.00 B             | Ground                                   |
| 2          |                    | NC                                       |
| 3          | 0.50 V             | Width lamp power                         |
| 4          | 0.50 Y/G           | Blower control signal                    |
| 5          | 0.50 V/B           | Outside temperature sensor signal ground |
| 6          | 0.50 V/Y           | Ambient light sensor signal              |
| 7          |                    | NC                                       |
| 8          | 0.85 R/Gr          | A/C compressor control vavle signal      |
| 9          |                    | NC                                       |
| 10         | 3.00 R             | Power                                    |
| 11         |                    | NC                                       |
| 12         | 0.50 V/G           | Outside temperature sensor signal ground |
| 13         | 0.50 G/W           | K-line                                   |
| 14         | 0.50 Y/V           | Rear defroster control signal            |
| 15         | 0.50 Y/G           | A/C switch signal                        |
| 16         |                    | NC                                       |
| 17         | 0.85 B/P           | A/C compressor control vavle signal      |
| 18         | 0.50 R/Y           | IG1 power                                |
| 19         |                    | NC                                       |
| 20         | 0.85 B             | Ground                                   |
| 21         | 0.50 W             | BCAN-H                                   |
| 22         | 0.50 W/B           | BCAN-L                                   |
| 23         | 1.25 R/O           | Power                                    |
| 24         |                    | NC                                       |



# Harness Connector View

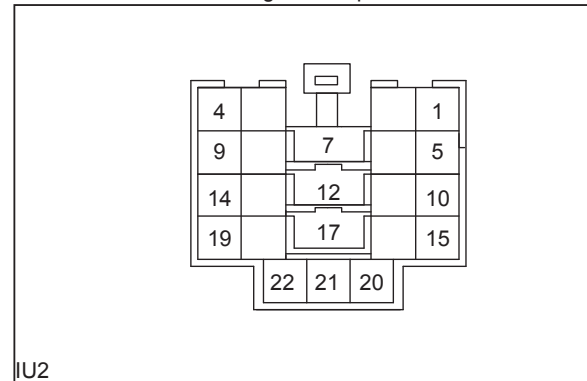
Instrument Harness Connector (I--)  
Instrument Harness to Engine Compartment Harness Connector



## IU1 Pin Definition

| Pin Number | Wire Width / Color | Function                                    |
|------------|--------------------|---|
| 1          | 0.50 B/Y           | Stator relay power return signal            |
| 2          | 0.50 R             | Stator relay power                          |
| 3          | 0.50 Y/Gr          | RF TPMS antenna +                           |
| 4          | 0.50 Y/B           | LF TPMS antenna +                           |
| 5          | 0.50 G/R           | Front collision sensor power                |
| 6          | 0.50 O             | Low beam lamp relay control                 |
| 7          | 0.50 R/Y           | Turn right lamp power                       |
| 8          | 0.50 G/R           | Low beam lamp axle adjust signal            |
| 9          | 0.50 Br/W          | Daytime running lamp power                  |
| 10         | 0.50 BI/R          | Washer power                                |
| 11         | 1.25 G/BI          | Wiper motor low speed power                 |
| 12         | 0.50 V/G           | Outside temperature sensor signal           |
| 13         | 0.50 Y/G           | A/C request signal                          |
| 14         | 0.50 W             | Brake switch power output(normally ON)      |
| 15         | 0.50 O/R           | Rear oxygen sensor power                    |
| 16         | 0.50 Y             | RF TPMS antenna -                           |
| 17         | 0.50 Y/G           | LF TPMS antenna -                           |
| 18         | 0.50 R/Y           | Low beam lamp axle adjust power             |
| 19         | 0.85 V             | Left high beam lamp power                   |
| 20         | 0.50 Y/G           | Turn left lamp power                        |
| 21         | 0.50 P/BI          | Front width lamp power                      |
| 22         | 0.50 G/O           | Engine compartment cover Lock switch signal |
| 23         | 0.50 Y/BI          | Wiper motor return signal                   |
| 24         | 1.25 G/Y           | Wiper motor high speed power                |
| 25         | 0.50 V/B           | Ground                                      |
| 26         |                    | NC  |

Instrument Harness Connector (I--)  
Instrument Harness to Engine Compartment Harness Connector



## IU2 Pin Definition

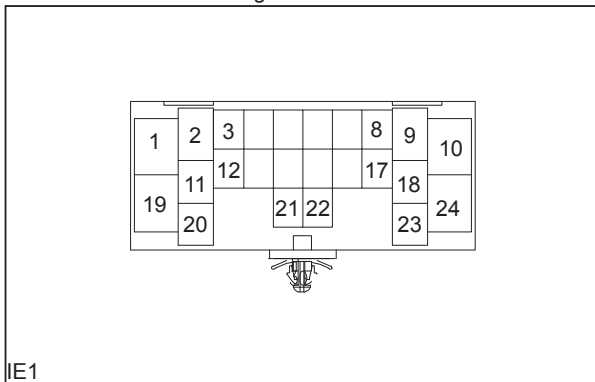
| Pin Number | Wire Width / Color | Function                        |
|------------|--------------------|---------------------------------|
| 1          | 0.50 O             | Yaw Rate Sensor signal -        |
| 2          | 0.50 R/W           | ABS HCU power                   |
| 3          | 0.50 G             | Brake fluid level switch signal |
| 4          | 0.50 Br/G          | RR wheel speed sensor signal -  |
| 5          | 0.50 Y/B           | PCAN-L                          |
| 6          | 0.50 Y             | PCAN-H                          |
| 7          | 1.25 R             | IG1 power                       |
| 8          | 0.50 W             | Horn relay switch control       |
| 9          | 0.50 Br/P          | RR wheel speed sensor signal    |
| 10         | 0.50 Y/R           | ESP switch signal               |
| 11         | 0.50 Y/V           | Wheel speed signal output       |
| 12         |                    | NC                              |
| 13         | 0.50 O/B           | Yaw Rate Sensor signal +        |
| 14         | 0.50 G             | P gear unlock +                 |
| 15         | 0.50 V/R           | TCU controller N gear signal    |
| 16         | 0.50 Br/Y          | TCU controller R gear signal    |
| 17         |                    | NC                              |
| 18         | 0.50 W             | P gear unlock -                 |
| 19         | 0.50 Y             | Manual model signal over +      |
| 20         | 0.50 V             | Snow model switch signal        |
| 21         |                    | NC                              |
| 22         | 0.50 BI            | Manual model signal over -      |



# Harness Connector View

Instrument Harness Connector (I--)

Instrument Harness to Engine Harness Connector



IE1

IE1 Pin Definition

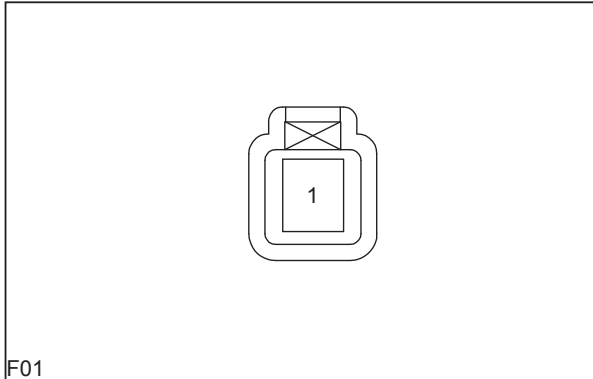
| Pin Number | Wire Width / Color | Function                           |
|------------|--------------------|------------------------------------|
| 1          |                    | NC                                 |
| 2          | 0.50 Y/B           | PCAN-L                             |
| 3          | 0.50 G             | Rear oxygen sensor signal          |
| 4          | 0.50 P             | Ground                             |
| 5          | 0.50 O             | N Gear Signal(1.8L)                |
| 6          |                    | NC                                 |
| 7          | 0.50 P/B           | Clutch switch signal               |
| 8          | 0.50 W             | Brake switch signal(normally ON)   |
| 9          |                    | NC                                 |
| 10         | 0.85 R/Gr          | Compressor power +                 |
| 11         | 0.50 Y             | PCAN-H                             |
| 12         | 0.50 Br            | Brake switch signal (normally OFF) |
| 13         | 0.50 W/R           | Charging indicator                 |
| 14         | 0.50 G/Y           | Oil pressure switch signal         |
| 15         | 0.50 Br/Y          | Reversing switch signal            |
| 16         |                    | NC                                 |
| 17         | 0.50 V             | Brake switch signal(normally OFF)  |
| 18         | 0.50 Y             | Rear oxygen sensor heating signal  |
| 19         |                    | NC                                 |
| 20         | 1.25 R/W           | IG1 power                          |
| 21         | 0.50 B/W           | Cruise control(2.4L)/Ground(2.0T)  |
| 22         | 0.50 BI            | Ground(2.4L)/Cruise control(2.0T)  |
| 23         | 0.85 R             | IG1 power                          |
| 24         | 0.85 B/P           | Compressor power -                 |

Instrument Harness Connector (I--)

# Harness Connector View

Left Body Harness Connector (F--)

LF Door Lamp Switch Connector

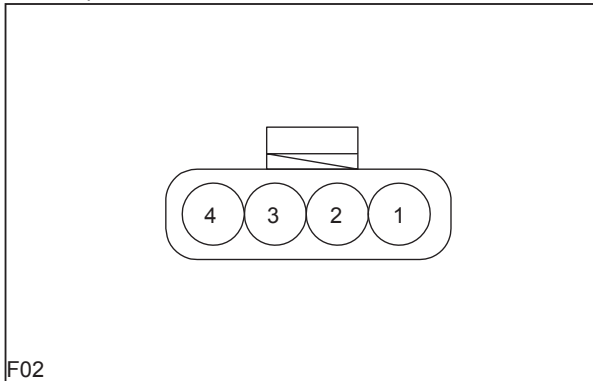


F01

F01 Pin Definition

| Pin Number | Wire Width / Color | Function |
|------------|--------------------|----------|
| 1          | 0.50 O             | Signal   |

Fuel Pmp Connector



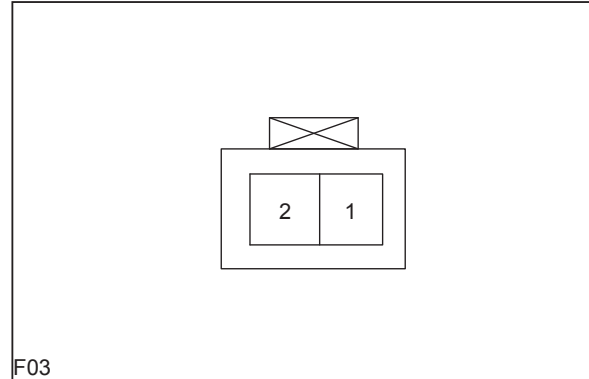
F02

F02 Pin Definition

| Pin Number | Wire Width / Color | Function           |
|------------|--------------------|--------------------|
| 1          | 2.00 B             | Ground             |
| 2          | 2.00 Y             | Fuel pmp power     |
| 3          | 0.50 B             | Ground             |
| 4          | 0.50 G/R           | Fuel sensor signal |

Left Body Harness Connector (F--)

Antenna(Rear) Connector

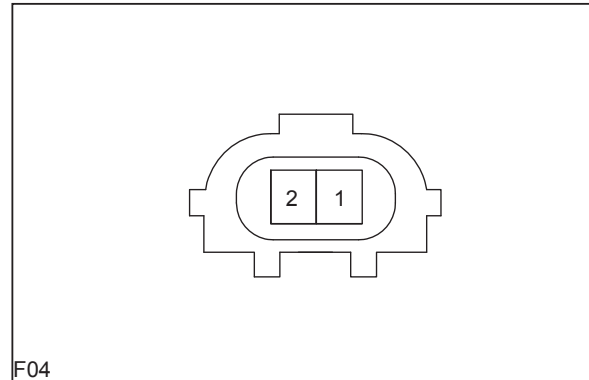


F03

F03 Pin Definition

| Pin Number | Wire Width / Color | Function         |
|------------|--------------------|------------------|
| 1          | 0.50 Gr/B          | Antenna signal - |
| 2          | 0.50 Gr/O          | Antenna signal + |

LR Tire Pressure Antenna Connector



F04

F04 Pin Definition

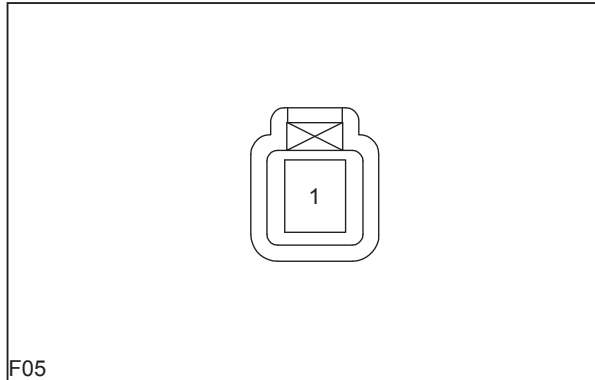
| Pin Number | Wire Width / Color | Function               |
|------------|--------------------|------------------------|
| 1          | 0.50 Gr/R          | Tire Pressure signal - |
| 2          | 0.50 Y/R           | Tire Pressure signal + |



# Harness Connector View

Left Body Harness Connector (F--)

LR Door Lamp Switch Connector

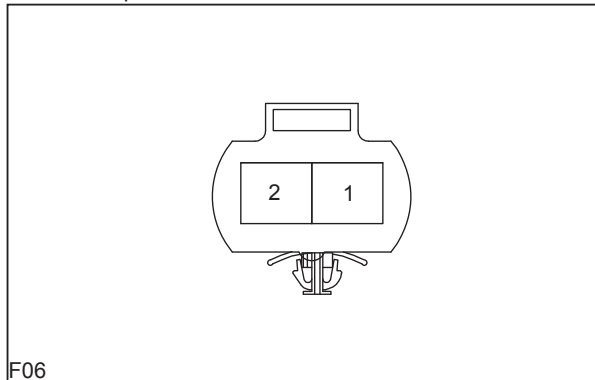


F05

F05 Pin Definition

| Pin Number | Wire Width / Color | Function |
|------------|--------------------|----------|
| 1          | 0.50 Gr            | Signal   |

LR Wheel Speed Sensor Connector



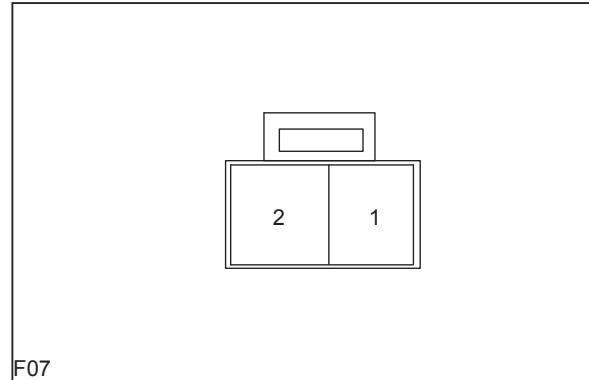
F06

F06 Pin Definition

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

Left Body Harness Connector (F--)

High Mounted Brake Lamp Connector

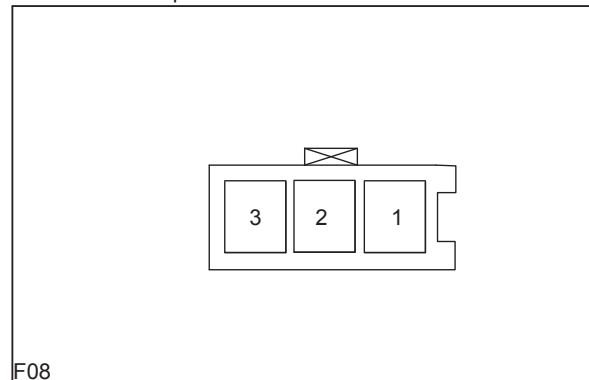


F07

F07 Pin Definition

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

Rear Dome Lamp Connector



F08

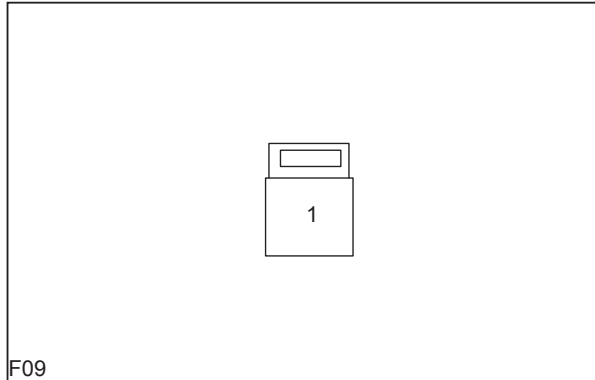
F08 Pin Definition

| Pin Number | Wire Width / Color | Function      |
|------------|--------------------|---------------|
| 1          | 0.85 R/G           | Power         |
| 2          | 0.85 B             | Ground        |
| 3          | 0.85 G/Gr          | Delay control |

# Harness Connector View

Left Body Harness Connector (F--)

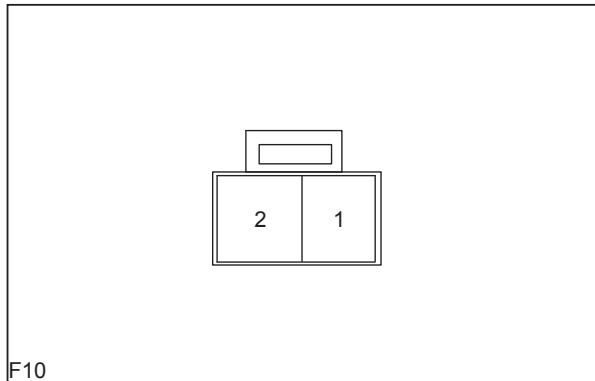
Rear Defroster Connector



F09 Pin Definition

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

Noise Filter Connector

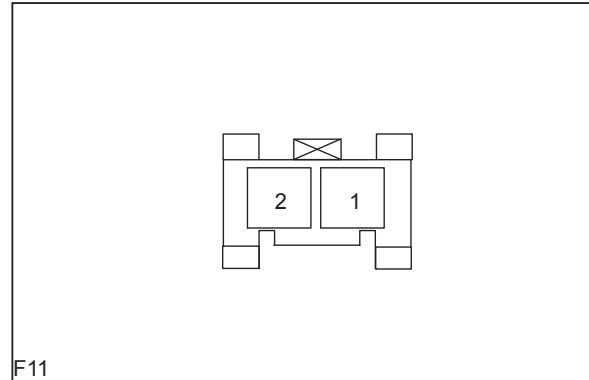


F10 Pin Definition

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

Left Body Harness Connector (F--)

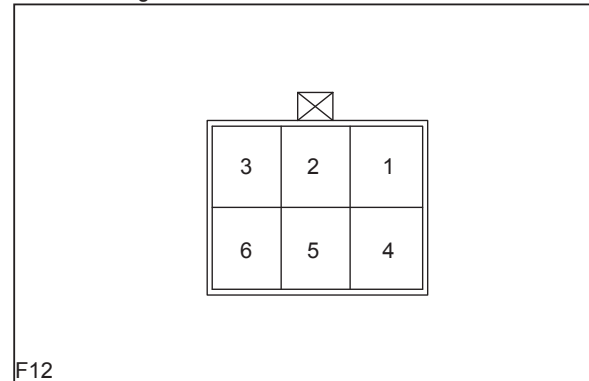
Trunk Lamp Connector



F11 Pin Definition

| Pin Number | Wire Width / Color | Function     |
|------------|--------------------|--------------|
| 1          | 0.50 R/Gr          | Power        |
| 2          | 0.50 G/W           | RBCM control |

Reverse Image Connector



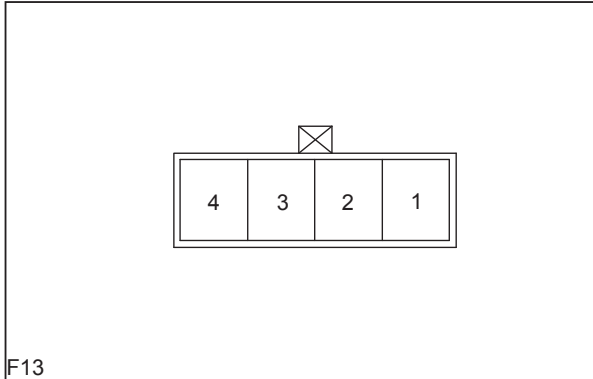
F12 Pin Definition

| Pin Number | Wire Width / Color | Function |
|------------|--------------------|----------|
| 1          | 0.50 W             | BCAN-H   |
| 2          | 0.50 G             | Power -  |
| 3          | 0.50 R             | Power +  |
| 4          | 0.50 W/B           | BCAN-L   |
| 5          |                    | NC       |
| 6          | 0.50 W             | Signal   |

# Harness Connector View

Left Body Harness Connector (F--)

Reverse Image Return Connector

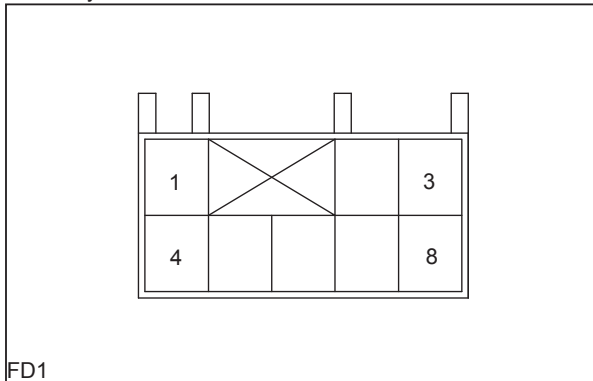


F13

F13 Pin Definition

| Pin Number | Wire Width / Color | Function |
|------------|--------------------|----------|
| 1          | 0.50 R             | Power +  |
| 2          | 0.50 G             | Power -  |
| 3          |                    | NC       |
| 4          | 0.50 W             | Signal   |

Left Body Harness to Door Harness Connector



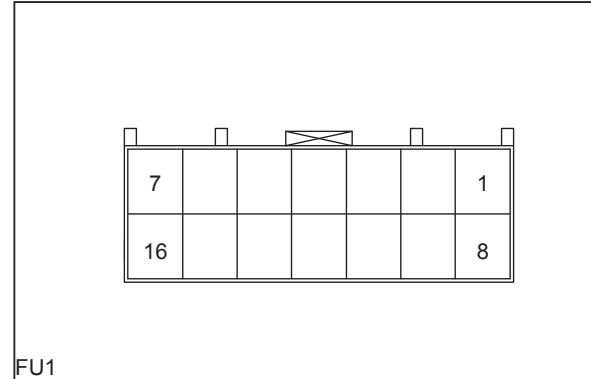
FD1

FD1 Pin Definition

| Pin Number | Wire Width / Color | Function         |
|------------|--------------------|------------------|
| 1          | 2.00 R/O           | Switch power     |
| 2          | 0.50 R             | Power            |
| 3          | 2.00 B             | Ground           |
| 4          | 0.50 G             | LIN              |
| 5          | 0.50 V             | Width lamp power |
| 6          |                    | NC               |
| 7          |                    | NC               |
| 8          |                    | NC               |

Left Body Harness Connector (F--)

Left Body Harness to Front Compartment Harness Connector



FU1

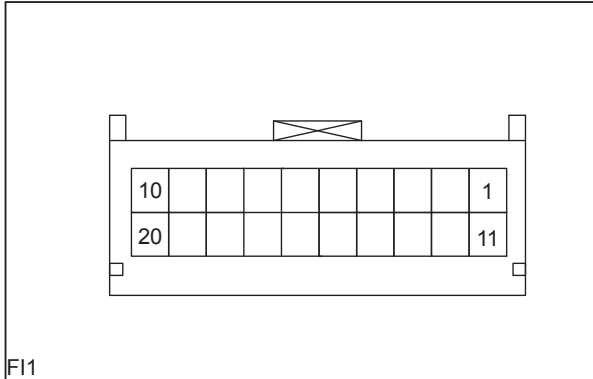
FU1 Pin Definition

| Pin Number | Wire Width / Color | Function                       |
|------------|--------------------|--------------------------------|
| 1          | 0.50 G/B           | Ground                         |
| 2          | 0.50 G/Y           | Front collision sensor signal  |
| 3          |                    | NC                             |
| 4          |                    | NC                             |
| 5          |                    | NC                             |
| 6          | 2.00 Y             | Fuel pump power                |
| 7          | 0.50 Br/Gr         | LR wheel speed sensor signal + |
| 8          | 0.50 G/R           | Power                          |
| 9          |                    | NC                             |
| 10         |                    | NC                             |
| 11         |                    | NC                             |
| 12         |                    | NC                             |
| 13         |                    | NC                             |
| 14         | 0.50 Br/Bl         | LR wheel speed sensor signal - |
| 15         |                    | NC                             |
| 16         |                    | NC                             |

# Harness Connector View

Left Body Harness Connector (F--)

Left Body Harness to IP Harness Connector



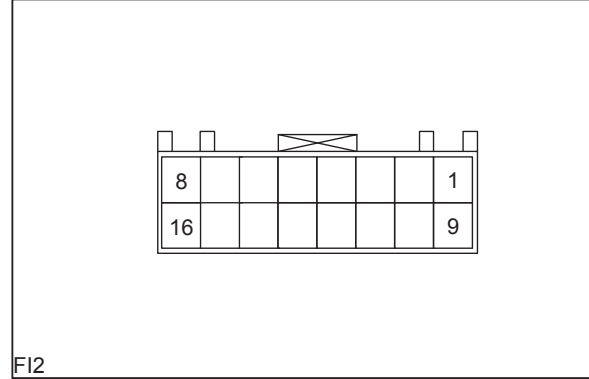
F11

F11 Pin Definition

| Pin Number | Wire Width / Color | Function                     |
|------------|--------------------|------------------------------|
| 1          | 0.50 Y/R           | LR TPMS antenna signal +     |
| 2          | 0.50 G/Gr          | Rear dome lamp delay control |
| 3          | 0.50 O             | LF door lamp signal          |
| 4          | 0.50 G/R           | Fuel sensor signal           |
| 5          | 0.50 B             | Ground                       |
| 6          | 0.50 Gr/O          | Rear antenna signal +        |
| 7          | 0.50 Gr/B          | Rear antenna signal -        |
| 8          | 0.50 Br/V          | Trunk antenna signal +       |
| 9          | 0.50 Gr/Br         | Trunk antenna signal -       |
| 10         | 0.50 V/W           | Trunk microswitch signal     |
| 11         | 0.50 Gr/R          | LR TPMS antenna signal -     |
| 12         |                    | NC                           |
| 13         | 0.50 Gr            | LR door lamp switch signal   |
| 14         |                    | NC                           |
| 15         |                    | NC                           |
| 16         |                    | NC                           |
| 17         |                    | NC                           |
| 18         |                    | NC                           |
| 19         |                    | NC                           |
| 20         |                    | NC                           |

Left Body Harness Connector (F--)

Left Body Harness to IP Harness Connector



F12

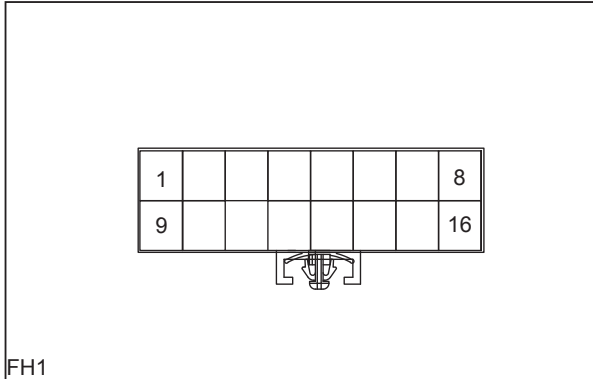
F12 Pin Definition

| Pin Number | Wire Width / Color | Function                       |
|------------|--------------------|--------------------------------|
| 1          | 1.25 R/Gr          | Trunk lamp power               |
| 2          | 0.85 R             | Power                          |
| 3          | 2.00 R/W           | Power                          |
| 4          | 0.50 W             | Rear brake lamp power          |
| 5          | 2.00 R/O           | Switch power                   |
| 6          | 0.50 V             | Width lamp power               |
| 7          | 0.50 G             | LIN                            |
| 8          | 0.50 W             | BCAN-H                         |
| 9          | 0.85 R/G           | Rear dome lamp power           |
| 10         | 1.25 R             | Lamp power                     |
| 11         | 0.50 G/R           | Reverse image power            |
| 12         |                    | NC                             |
| 13         | 0.50 R             | LR door controller power       |
| 14         | 0.50 O/R           | Automatic ON Trunk model power |
| 15         |                    | NC                             |
| 16         | 0.50 W/B           | BCAN-L                         |

# Harness Connector View

Left Body Harness Connector (F--)

Left Body Harness to Rear Body Harness Connector



FH1

FH1 Pin Definition

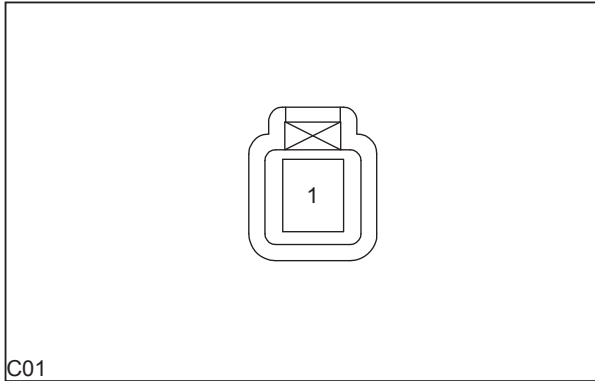
| Pin Number | Wire Width / Color | Function                           |
|------------|--------------------|------------------------------------|
| 1          | 0.50 G             | LIN                                |
| 2          | 1.25 R/Gr          | Power                              |
| 3          | 0.85 R             | Power                              |
| 4          | 0.50 G/B           | Ground                             |
| 5          | 0.50 G/Y           | Front collision radar signal       |
| 6          | 0.50 Br/V          | Trunk antenna signal +             |
| 7          | 0.50 V/W           | Trunk microswitch signal           |
| 8          | 0.50 W             | BCAN-H                             |
| 9          |                    | NC                                 |
| 10         | 0.50 G/W           | Trunk lamp control                 |
| 11         | 1.25 R             | Lamp power                         |
| 12         | 0.50 G/R           | Reversing camera module power      |
| 13         | 0.50 W             | Brake lamp power                   |
| 14         | 0.50 Gr/Br         | Trunk antenna signal -             |
| 15         | 0.50 R             | Automatically ON trunk model power |
| 16         | 0.50 W/B           | BCAN-L                             |

Left Body Harness Connector (F--)

# Harness Connector View



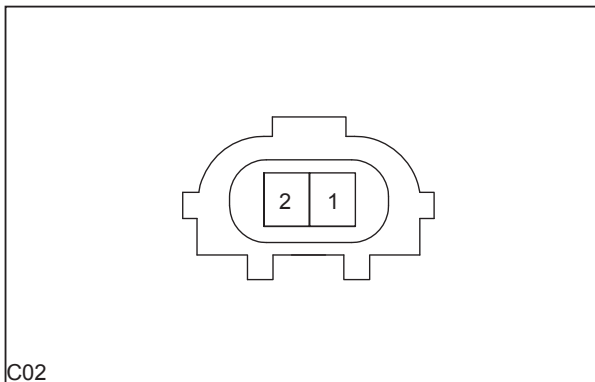
Right Body Harness Connector (C--)  
RF Door Lamp Switch Connector



C01 Pin Definition

| Pin Number | Wire Width / Color | Function |
|------------|--------------------|----------|
| 1          | 0.50 P             | Signal   |

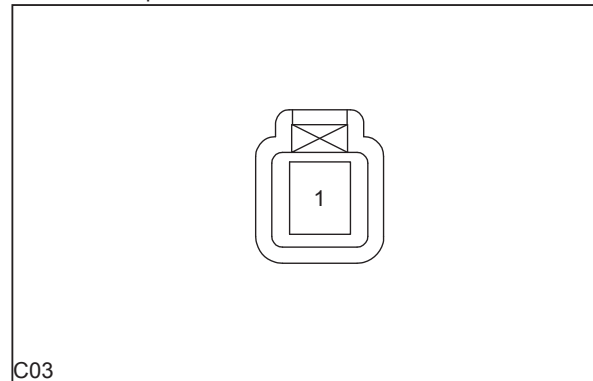
RR Tire Pressure Antenna Connector



C02 Pin Definition

| Pin Number | Wire Width / Color | Function              |
|------------|--------------------|-----------------------|
| 1          | 0.50 Y/V           | TPMS antenna signal - |
| 2          | 0.50 Y/W           | TPMS antenna signal + |

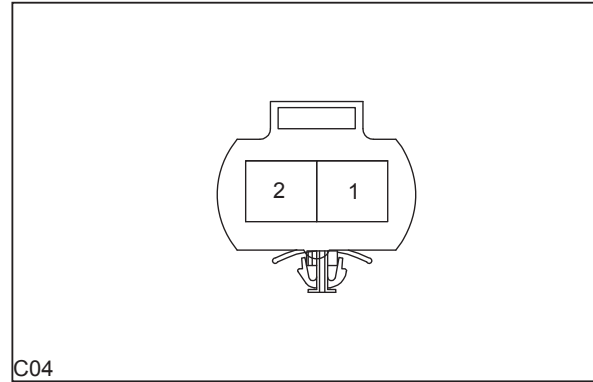
Right Body Harness Connector (C--)  
RR Door Lamp Switch Connector



C03 Pin Definition

| Pin Number | Wire Width / Color | Function |
|------------|--------------------|----------|
| 1          | 0.50 G             | Signal   |

RR Wheel Speed Sensor Connector



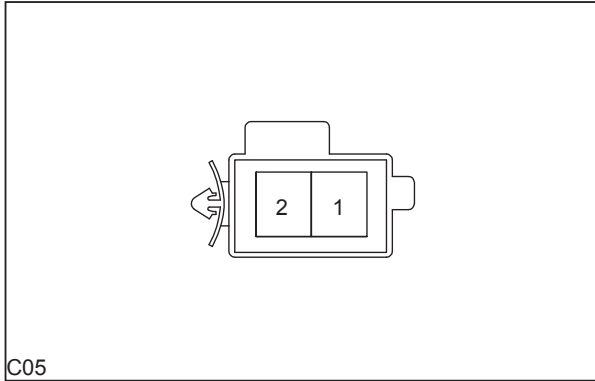
C04 Pin Definition

| Pin Number | Wire Width / Color | Function |
|------------|--------------------|----------|
| 1          | 0.50 Br/P          | Signal - |
| 2          | 0.50 Br/G          | Signal + |

# Harness Connector View

## Right Body Harness Connector (C--)

### LR Speaker Connector

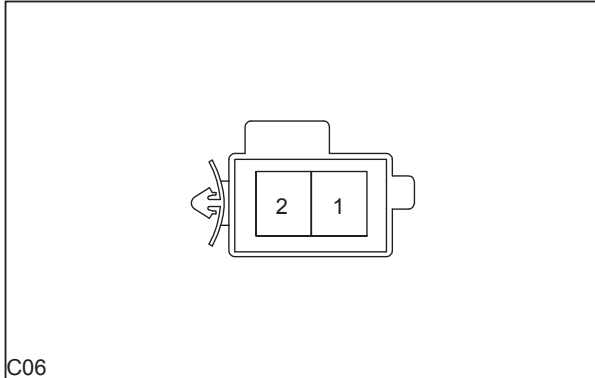


C05

### C05 Pin Definition

| Pin Number | Wire Width / Color | Function |
|------------|--------------------|----------|
| 1          | 0.50 Y/B           | Signal - |
| 2          | 0.50 Y             | Signal + |

### RR Speaker Connector



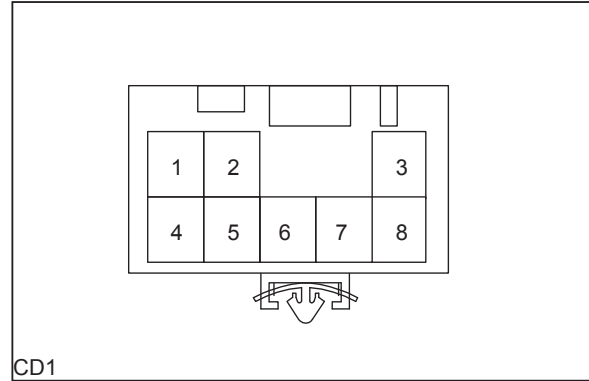
C06

### C06 Pin Definition

| Pin Number | Wire Width / Color | Function |
|------------|--------------------|----------|
| 1          | 0.50 V/B           | Signal - |
| 2          | 0.50 V             | Signal + |

## Right Body Harness Connector (C--)

### Right Body Harness to RR Door Harness Connector



CD1

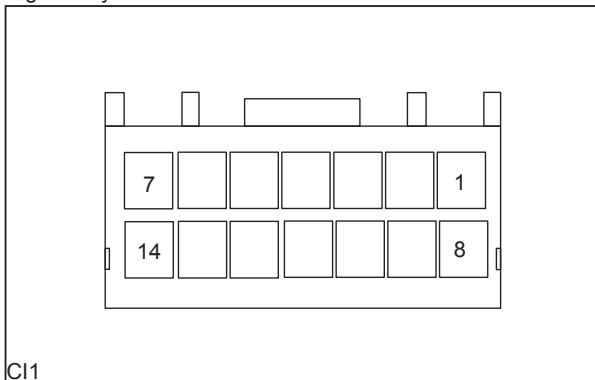
### CD1 Pin Definition

| Pin Number | Wire Width / Color | Function         |
|------------|--------------------|------------------|
| 1          | 2.00 R/W           | Switch power     |
| 2          | 0.50 R             | Power            |
| 3          | 2.00 B             | Ground           |
| 4          | 0.50 G             | LIN              |
| 5          | 0.50 V             | Width lamp power |
| 6          |                    | NC               |
| 7          |                    | NC               |
| 8          |                    | NC               |

# Harness Connector View

Right Body Harness Connector (C--)

Right Body Harness to IP Harness Connector



C11

C11 Pin Definition

| Pin Number | Wire Width / Color | Function                             |
|------------|--------------------|--------------------------------------|
| 1          | 0.50 Y/W           | RR TPMS antenna +                    |
| 2          | 0.50 P             | RF door switch signal                |
| 3          | 0.50 R             | RR door switch off electrical output |
| 4          | 0.50 V/B           | RR speaker signal -                  |
| 5          | 0.50 V             | RR speaker signal +                  |
| 6          | 0.50 Br/P          | RR wheel speed sensor signal +       |
| 7          | 0.50 Br/G          | RR wheel speed sensor signal -       |
| 8          | 0.50 Y/V           | RR TPMS antenna -                    |
| 9          | 0.50 G             | RR door switch signal                |
| 10         | 2.00 R/W           | RR door controller power             |
| 11         | 0.50 Y/B           | LR speaker signal -                  |
| 12         | 0.50 Y             | LR speaker signal +                  |
| 13         | 0.50 V             | Width lamp power                     |
| 14         | 0.50 G             | LIN                                  |

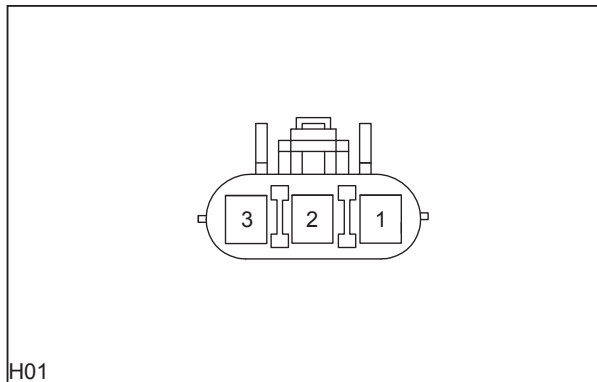
Right Body Harness Connector (C--)





# Harness Connector View

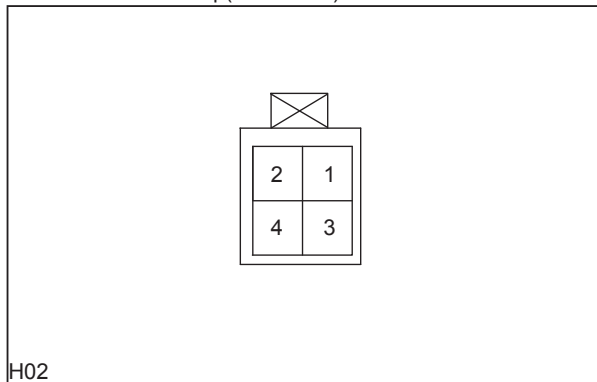
Rear Body Harness Connector (H--)  
Anti-theft Alarm Connector



H01 Pin Definition

| Pin Number | Wire Width / Color | Function         |
|------------|--------------------|------------------|
| 1          | 0.85 BI/Y          | Alarm horn power |
| 2          |                    | NC               |
| 3          | 0.85 B             | Ground           |

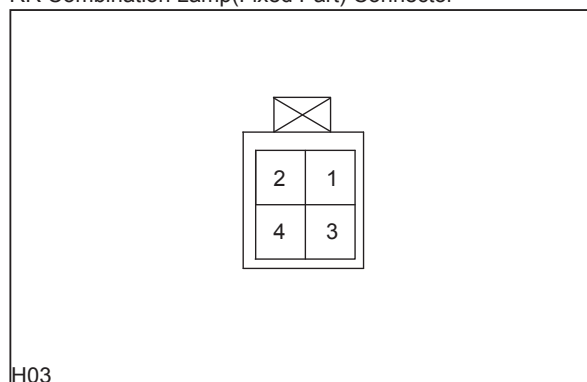
LR Combination Lamp(Fixed Part) Connector



H02 Pin Definition

| Pin Number | Wire Width / Color | Function         |
|------------|--------------------|------------------|
| 1          | 0.50 W             | Brake lamp power |
| 2          | 1.25 B             | Ground           |
| 3          | 0.50 BI/G          | Width lamp power |
| 4          | 0.50 BI/R          | Trun lamp power  |

Rear Body Harness Connector (H--)  
RR Combination Lamp(Fixed Part) Connector



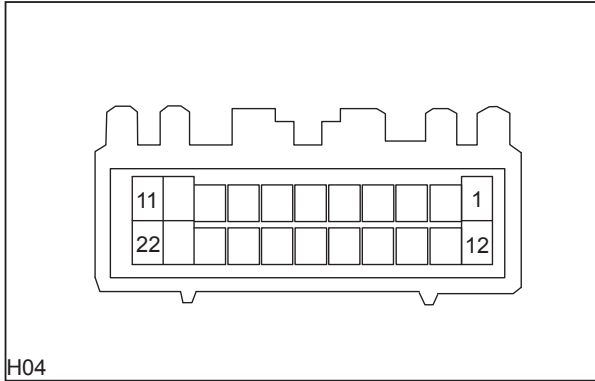
H03 Pin Definition

| Pin Number | Wire Width / Color | Function            |
|------------|--------------------|---------------------|
| 1          | 0.50 W             | Brake lamp power    |
| 2          | 1.25 B             | Ground              |
| 3          | 0.50 BI/G          | RR width lamp power |
| 4          | 0.50 BI/R          | RR turn lamp power  |

# Harness Connector View

Rear Body Harness Connector (H--)

Rear BCM-1 Connector

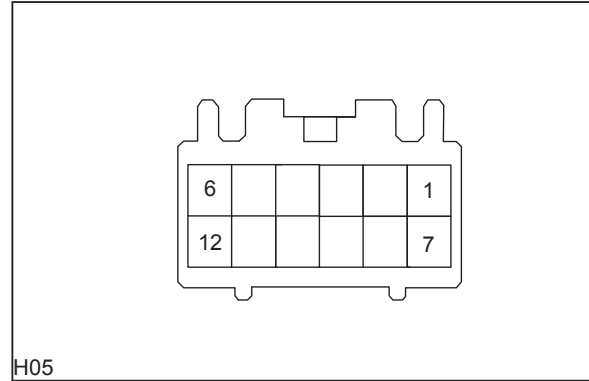


H04 Pin Definition

| Pin Number | Wire Width / Color | Function                         |
|------------|--------------------|----------------------------------|
| 1          | 0.85 Y             | Trunk ON motor power             |
| 2          | 0.50 G/W           | Trunk lock switch signal         |
| 3          | 0.50 W/B           | BCAN-L                           |
| 4          | 0.50 W             | BCAN-H                           |
| 5          |                    | NC                               |
| 6          |                    | NC                               |
| 7          |                    | NC                               |
| 8          |                    | NC                               |
| 9          |                    | NC                               |
| 10         |                    | NC                               |
| 11         | 0.85 R             | Power                            |
| 12         | 0.85 BI/Y          | Anti-theft alarm horn power      |
| 13         |                    | NC                               |
| 14         |                    | NC                               |
| 15         |                    | NC                               |
| 16         | 0.50 G/Y           | Rear anti-collision radar signal |
| 17         | 0.50 G/B           | Ground                           |
| 18         | 0.50 G/Y           | Signal                           |
| 19         | 0.50 B             | Ground                           |
| 20         |                    | NC                               |
| 21         |                    | NC                               |
| 22         | 0.85 B             | Ground                           |

Rear Body Harness Connector (H--)

Rear BCM-2 Connector



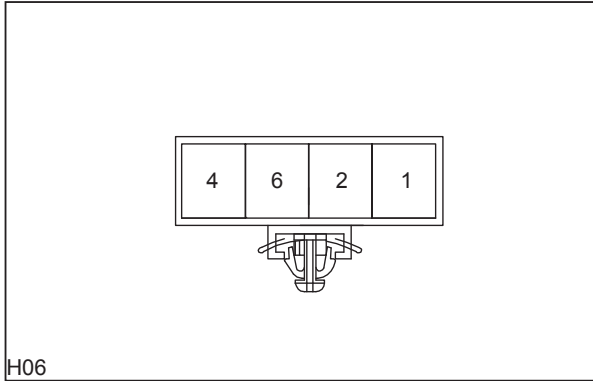
H05 Pin Definition

| Pin Number | Wire Width / Color | Function                 |
|------------|--------------------|--------------------------|
| 1          | 1.25 R/Gr          | RR brake lamp power      |
| 2          | 0.50 G/BI          | LR turn lamp power       |
| 3          | 0.50 BI/R          | RR turn lamp power       |
| 4          |                    | NC                       |
| 5          | 0.50 BI/G          | Width lamp power         |
| 6          | 1.25 R             | RBCM lamp power          |
| 7          | 0.50 BI/W          | RR reversing lamp power  |
| 8          | 0.50 G/O           | License plate lamp power |
| 9          |                    | NC                       |
| 10         | 0.50 BI            | RR fog lamp power        |
| 11         |                    | NC                       |
| 12         |                    | NC                       |



# Harness Connector View

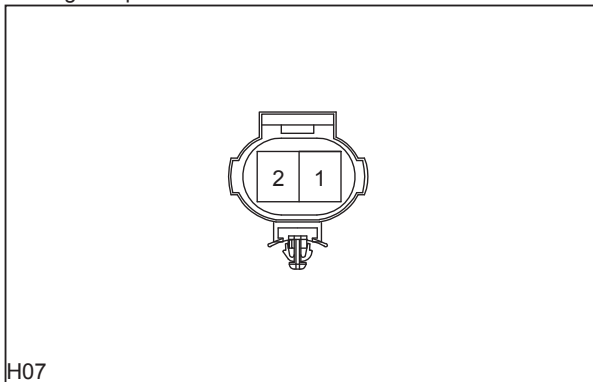
Rear Body Harness Connector (H--)  
LR Combination Lamp(Moving Part) Connector



H06 Pin Definition

| Pin Number | Wire Width / Color | Function              |
|------------|--------------------|-----------------------|
| 1          | 0.50 BI/W          | LR resever lamp power |
| 2          | 0.50 BI/G          | LR width lamp power   |
| 3          | 0.50 G/BI          | LR turn lamp power    |
| 4          | 1.25 B             | Ground                |

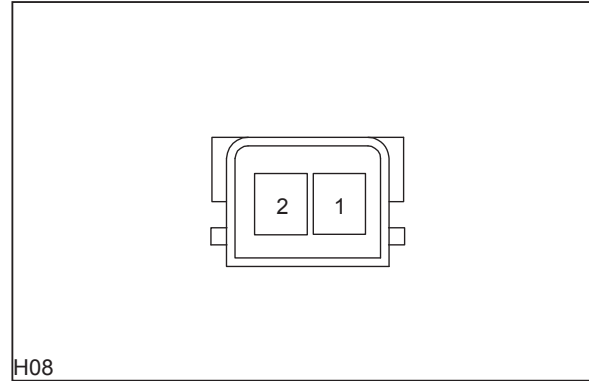
LR Fog Lamp Connector



H07 Pin Definition

| Pin Number | Wire Width / Color | Function          |
|------------|--------------------|-------------------|
| 1          | 0.50 BI            | LR fog lamp power |
| 2          | 0.50 B             | Ground            |

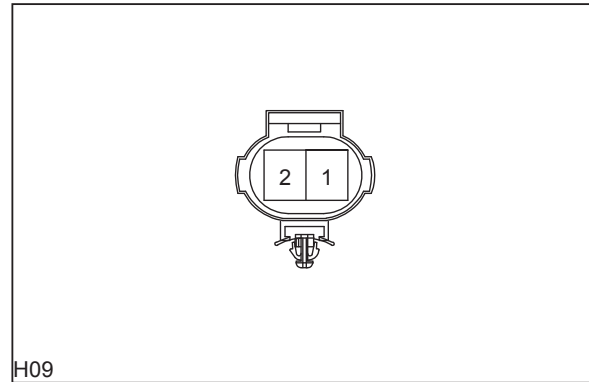
Rear Body Harness Connector (H--)  
LR License Lamp Connector



H08 Pin Definition

| Pin Number | Wire Width / Color | Function              |
|------------|--------------------|-----------------------|
| 1          | 0.50 G/O           | LR license lamp power |
| 2          | 0.50 B             | Ground                |

Trunk Microswitch Connector



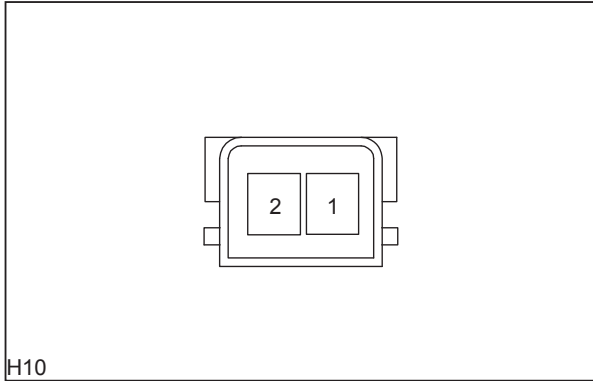
H09 Pin Definition

| Pin Number | Wire Width / Color | Function                 |
|------------|--------------------|--------------------------|
| 1          | 0.50 B             | Ground                   |
| 2          | 0.50 V/W           | Trunk microswitch signal |

# Harness Connector View

Rear Body Harness Connector (H--)

RR License Lamp Connector

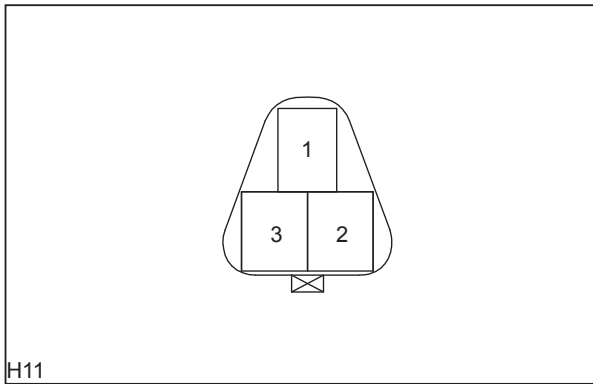


H10

H10 Pin Definition

| Pin Number | Wire Width / Color | Function              |
|------------|--------------------|-----------------------|
| 1          | 0.50 G/O           | RR license lamp power |
| 2          | 0.50 B             | Ground                |

Trunk Lock Connector



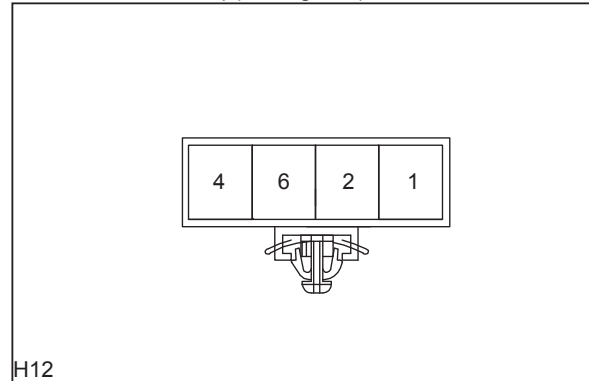
H11

H11 Pin Definition

| Pin Number | Wire Width / Color | Function                 |
|------------|--------------------|--------------------------|
| 1          | 0.85 B             | Ground                   |
| 2          | 0.50 G/W           | Trunk lock switch signal |
| 3          | 0.85 Y             | Trunk ON motor power     |

Rear Body Harness Connector (H--)

RR Combination Lamp(Moving Part) Connector

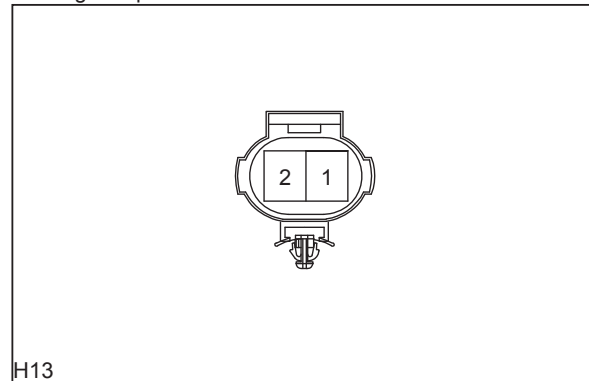


H12

H12 Pin Definition

| Pin Number | Wire Width / Color | Function                |
|------------|--------------------|-------------------------|
| 1          | 1.25 B             | Ground                  |
| 2          | 0.50 B/R           | RR turn lamp power      |
| 3          | 0.50 B/G           | RR width lamp power     |
| 4          | 0.50 B/W           | RR reversing lamp power |

RR Fog Lamp Connector



H13

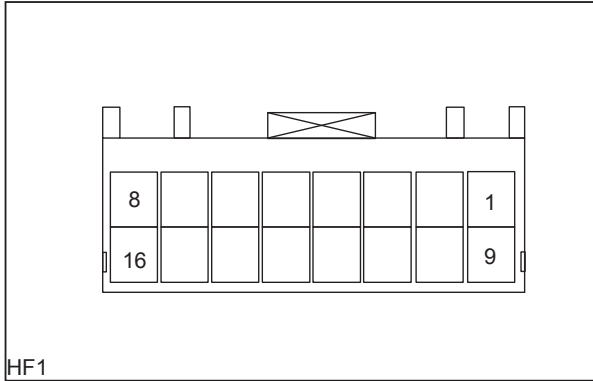
H13 Pin Definition

| Pin Number | Wire Width / Color | Function          |
|------------|--------------------|-------------------|
| 1          | 0.50 BI            | RR fog lamp power |
| 2          | 0.50 B             | Ground            |

# Harness Connector View

Rear Body Harness Connector (H--)

Rear Body Harness to Left Body Harness Connector



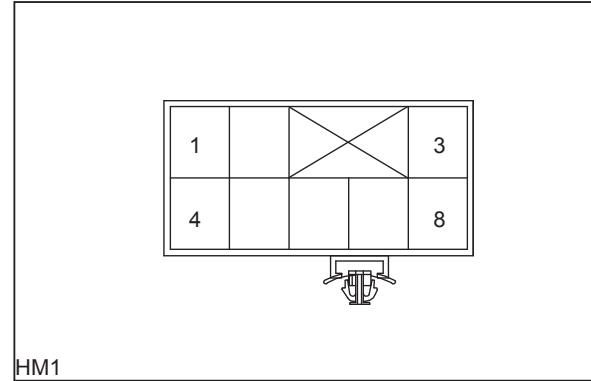
HF1

HF1 Pin Definition

| Pin Number | Wire Width / Color | Function                           |
|------------|--------------------|------------------------------------|
| 1          | 0.50 G             | LIN                                |
| 2          | 1.25 R/Gr          | Power                              |
| 3          | 0.85 R             | Power                              |
| 4          | 0.50 G/B           | Ground                             |
| 5          | 0.50 G/Y           | Front collision radar signal       |
| 6          | 0.50 Br/V          | Trunk antenna signal +             |
| 7          | 0.50 V/W           | Trunk microswitch signal           |
| 8          | 0.50 W             | BCAN-H                             |
| 9          |                    | NC                                 |
| 10         | 0.50 G/W           | Trunk lamp control                 |
| 11         | 1.25 R             | Lamp power                         |
| 12         | 0.50 G/R           | Reversing camera module power      |
| 13         | 0.50 W             | Brake lamp power                   |
| 14         | 0.50 Gr/R          | Trunk antenna signal -             |
| 15         | 0.50 O/R           | Automatically ON Trunk model power |
| 16         | 0.50 W/B           | BCAN-L                             |

Rear Body Harness Connector (H--)

Rear Body Harness to Rear Bumper Harness Connector



HM1

HM1 Pin Definition

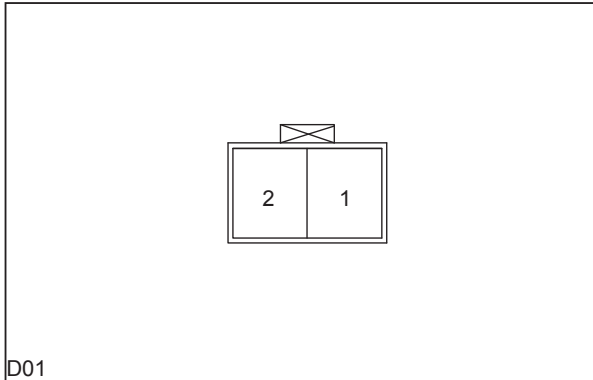
| Pin Number | Wire Width / Color | Function                           |
|------------|--------------------|------------------------------------|
| 1          | 0.50 G/Y           | Reverse radar signal               |
| 2          | 0.50 G/B           | Ground                             |
| 3          | 0.50 Br/V          | PEPS antenna +                     |
| 4          | 0.50 Gr/R          | PEPS antenna -                     |
| 5          | 0.50 O/R           | Automatically ON trunk model power |
| 6          | 0.50 G             | LIN                                |
| 7          | 0.50 G/R           | Reverse radar power                |
| 8          |                    | NC                                 |



# Harness Connector View

Door Harness Connector(D--)

LF Door Lamp Connector

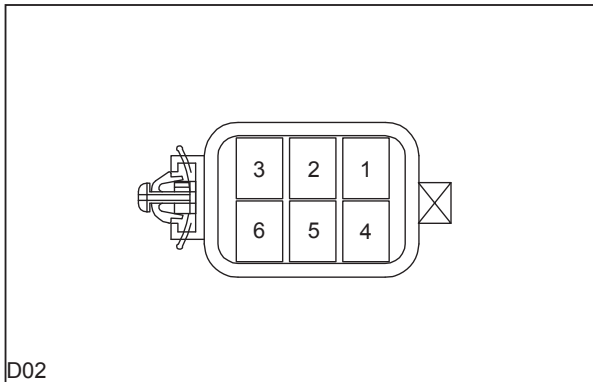


D01

D01 Pin Definition

| Pin Number | Wire Width / Color | Function             |
|------------|--------------------|----------------------|
| 1          | 0.50 G/B           | LF door lamp control |
| 2          | 0.50 R             | LF door lamp power   |

Anti-theft Antenna Connector



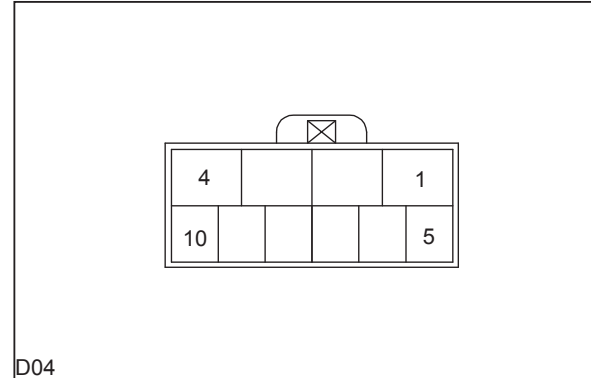
D02

D02 Pin Definition

| Pin Number | Wire Width / Color | Function                              |
|------------|--------------------|---------------------------------------|
| 1          | 0.50 G/B           | Anti-theft Antenna signal power       |
| 2          | 0.50 Y/W           | Anti-theft Antenna return signal      |
| 3          | 0.50 W/Y           | Anti-theft Antenna signal -           |
| 4          | 0.50 G/Y           | Anti-theft Antenna microswitch signal |
| 5          | 0.50 Gr            | Anti-theft Antenna signal +           |
| 6          | 0.50 Y/G           | Ground                                |

Door Harness Connector(D--)

LF Door Lock Motor Connector



D04

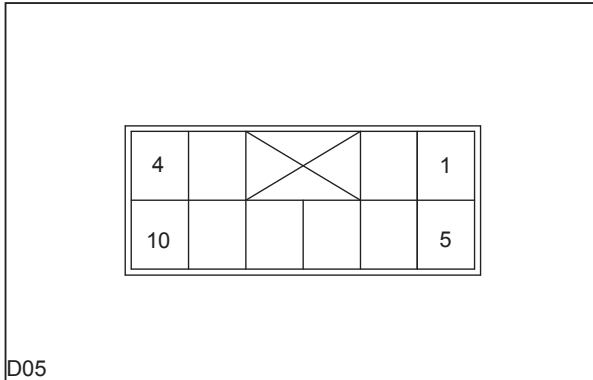
D04 Pin Definition

| Pin Number | Wire Width / Color | Function            |
|------------|--------------------|---------------------|
| 1          | 0.85 O/W           | LF door lock signal |
| 2          |                    | NC                  |
| 3          |                    | NC                  |
| 4          | 0.85 O/R           | LF door lock signal |
| 5          | 0.50 O/G           | Locking             |
| 6          | 0.50 O/Br          | Unlocking           |
| 7          | 0.50 O/V           | Lock state          |
| 8          | 0.50 B             | Ground              |
| 9          |                    | NC                  |
| 10         |                    | NC                  |

# Harness Connector View

Door Harness Connector(D--)

LF Door Controller 1 Connector



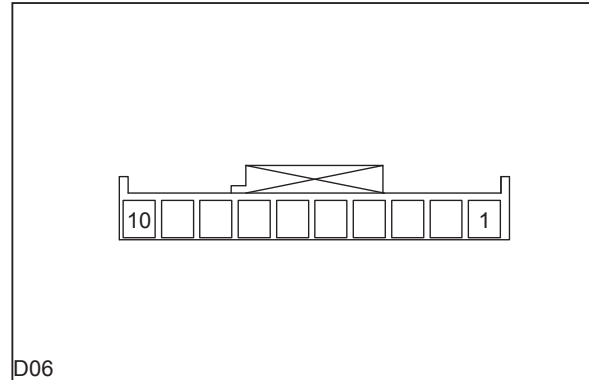
D05

D05 Pin Definition

| Pin Number | Wire Width / Color | Function                         |
|------------|--------------------|----------------------------------|
| 1          |                    | NC                               |
| 2          |                    | NC                               |
| 3          |                    | NC                               |
| 4          |                    | NC                               |
| 5          | 0.85 O/W           | Unlock signal                    |
| 6          | 0.85 O/R           | Lock signal                      |
| 7          | 2.00 B             | Ground                           |
| 8          | 2.00 R             | Switch power                     |
| 9          | 1.25 W/B           | LF door power window switch up   |
| 10         | 1.25 W/R           | LF door power window switch down |

Door Harness Connector(D--)

Power Rearview Mirror Switch Connector



D06

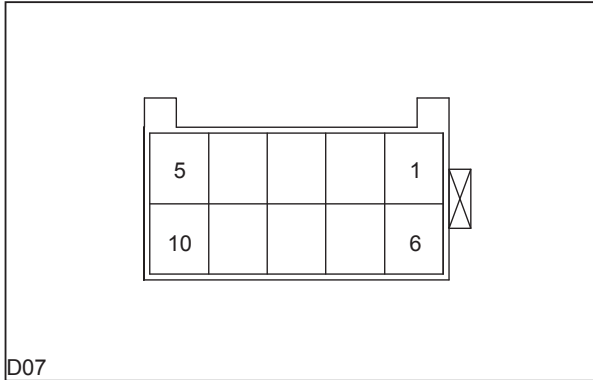
D06 Pin Definition

| Pin Number | Wire Width / Color | Function  |
|------------|--------------------|---|
| 1          | 0.50 G/BI          | Folding turn signal                             |
| 2          | 0.50 G             | Folded ON signal                                |
| 3          | 0.50 R/W           | Rear rearview mirror switch power               |
| 4          | 0.50 B             | Ground  |
| 5          | 0.50 Y/W           | LR rearview mirror adjustment common line       |
| 6          | 0.50 Y/Br          | LR rearview mirror up/down regulation signal    |
| 7          | 0.50 Y/G           | LR rearview mirror left/right regulation signal |
| 8          | 0.50 Y/Gr          | RR rearview mirror left/right regulation signal |
| 9          | 0.50 Y/BI          | RR rearview mirror up/down regulation signal    |
| 10         |                    | NC  |



# Harness Connector View

Door Harness Connector(D--)  
LF Door Controller 2 Connector

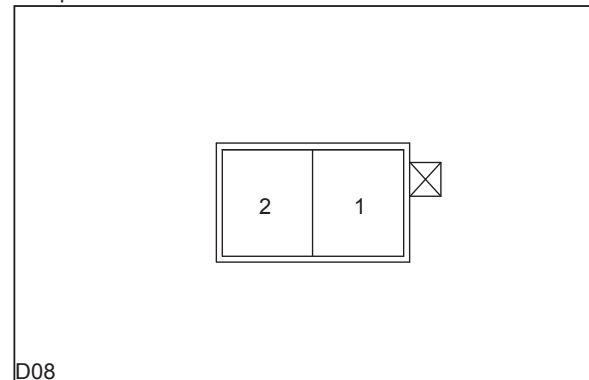


D07

D07 Pin Definition

| Pin Number | Wire Width / Color | Function                 |
|------------|--------------------|--------------------------|
| 1          | 0.50 R             | LF door controller power |
| 2          |                    | NC                       |
| 3          |                    | NC                       |
| 4          |                    | NC                       |
| 5          | 0.50 G             | LIN                      |
| 6          | 0.50 V             | Width lamp power         |
| 7          | 0.50 O/G           | Unlock                   |
| 8          | 0.50 O/Br          | Lock                     |
| 9          | 0.50 O/V           | Lock state               |
| 10         | 0.50 G/B           | LF door lamp control     |

Door Harness Connector(D--)  
LF Speaker Connector



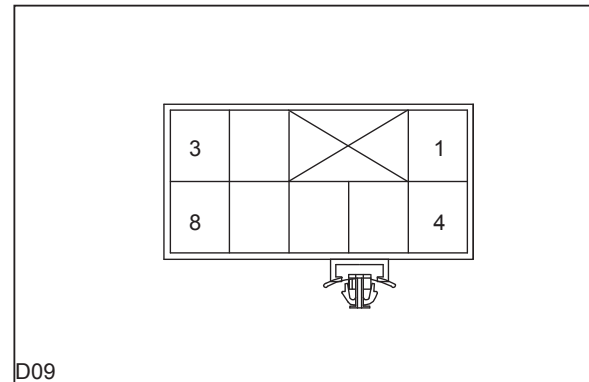
D08

D08 Pin Definition

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



LF Power Rearrearview mirror Connector



D09

D09 Pin Definition

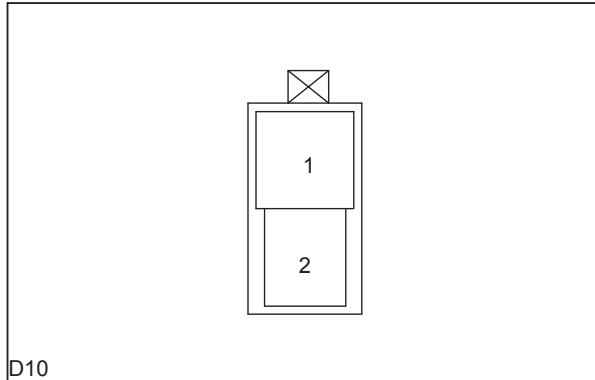
| Pin Number | Wire Width / Color | Function                                     |
|------------|--------------------|--|
| 1          | 0.50 Y/G           | LR rearview mirror steering lamp power       |
| 2          | 2.00 B             | Ground                                       |
| 3          | 0.50 R/W           | LF door rearrearview mirror defrosting power |
| 4          | 0.50 G/Bl          | Folding turn signal                          |
| 5          | 0.50 G             | Folded ON signal                             |
| 6          | 0.50 Y/W           | LR rearview mirror adjustment common line    |
| 7          | 0.50 Y/Br          | Left/right regulation signal                 |
| 8          | 0.50 Y/G           | Up/down regulation signal                    |



# Harness Connector View

Door Harness Connector(D--)

LF Door Power Window Motor Connector

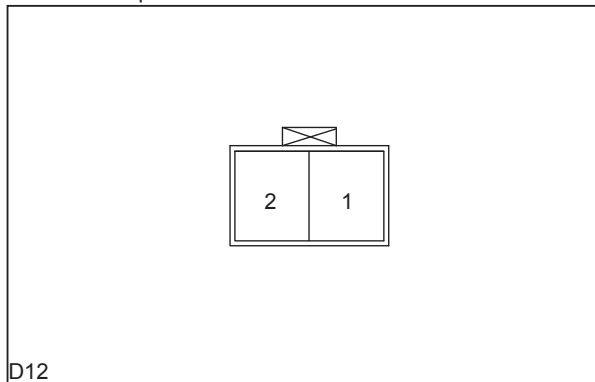


D10

D10 Pin Definition

| Pin Number | Wire Width / Color | Function                         |
|------------|--------------------|----------------------------------|
| 1          | 1.25 W/R           | LF door power Window switch down |
| 2          | 1.25 W/B           | LF door power Window switch up   |

RF Door Lamp Connector



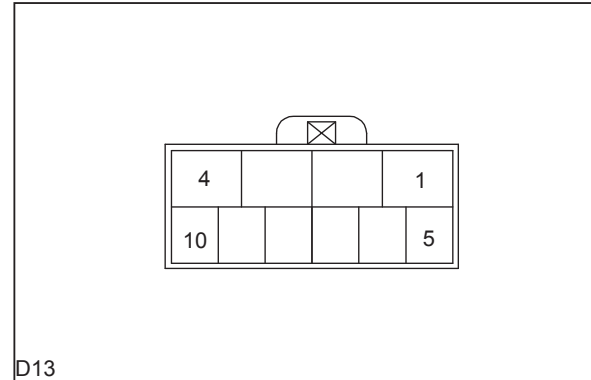
D12

D12 Pin Definition

| Pin Number | Wire Width / Color | Function             |
|------------|--------------------|----------------------|
| 1          | 0.50 G/B           | RF door lamp control |
| 2          | 0.50 R/B           | RF door lamp power   |

Door Harness Connector(D--)

RF Door Lock Motor Connector



D13

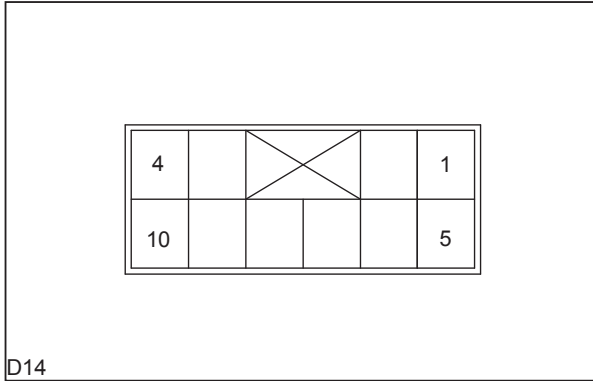
D13 Pin Definition

| Pin Number | Wire Width / Color | Function       |
|------------|--------------------|----------------|
| 1          | 0.85 O/R           | RF door lock   |
| 2          |                    | NC             |
| 3          |                    | NC             |
| 4          | 0.85 O/W           | RF door unlock |
| 5          |                    | NC             |
| 6          |                    | NC             |
| 7          |                    | NC             |
| 8          |                    | NC             |
| 9          |                    | NC             |
| 10         |                    | NC             |

# Harness Connector View

Door Harness Connector(D--)

RF Door Controller 1 Connector



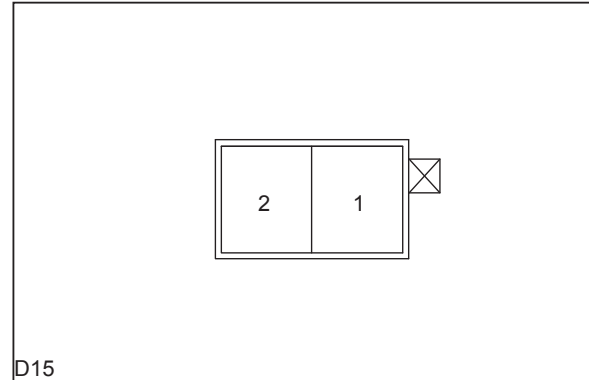
D14

D14 Pin Definition

| Pin Number | Wire Width / Color | Function                           |
|------------|--------------------|------------------------------------|
| 1          | 0.50 G/B           | Control                            |
| 2          | 0.50 V             | Width lamp power                   |
| 3          | 0.50 G             | LIN                                |
| 4          | 0.50 R             | Power                              |
| 5          | 1.25 W/B           | Switch down                        |
| 6          | 1.25 W/R           | Switch up                          |
| 7          | 2.00 R/B           | RF door controller switching power |
| 8          | 2.00 B             | Ground                             |
| 9          | 0.85 O/R           | RF door lock                       |
| 10         | 0.85 O/W           | RF door unlock                     |

Door Harness Connector(D--)

RF Speaker Connector



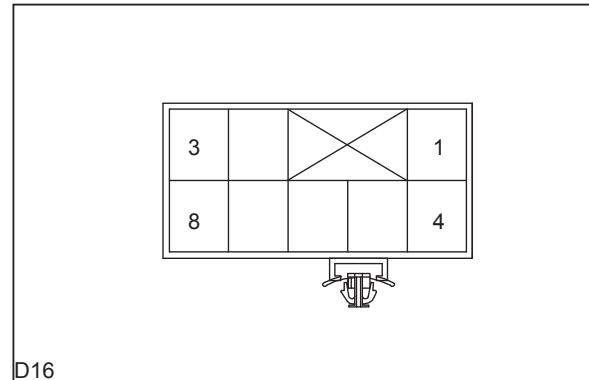
D15

D15 Pin Definition

| Pin Number | Wire Width / Color | Function            |
|------------|--------------------|---------------------|
| 1          | 0.50 O             | RF speaker signal + |
| 2          | 0.50 O/B           | RF speaker signal - |



RF Power Rearrearview mirror Connector



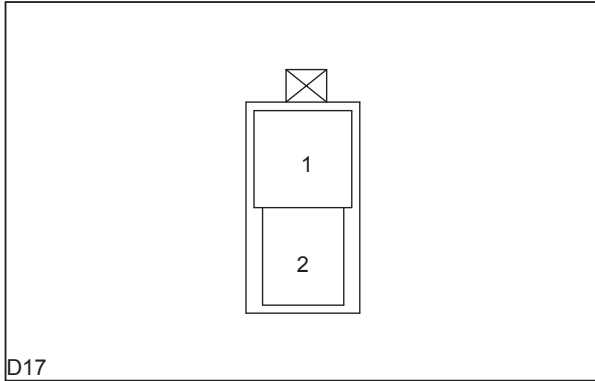
D16

D16 Pin Definition

| Pin Number | Wire Width / Color | Function                                  |
|------------|--------------------|---|
| 1          | 0.50 R/Y           | RR rearview mirror steering lamp power    |
| 2          | 2.00 B             | Ground                                    |
| 3          | 0.50 R/W           | RF door rearview mirror defrosting power  |
| 4          | 0.50 G/BI          | Folding turn signal                       |
| 5          | 0.50 G             | Folded ON signal                          |
| 6          | 0.50 Y/W           | LR rearview mirror adjustment common line |
| 7          | 0.50 Y/BI          | Left/right regulation signal              |
| 8          | 0.50 Y/Gr          | Up/down regulation signal                 |

# Harness Connector View

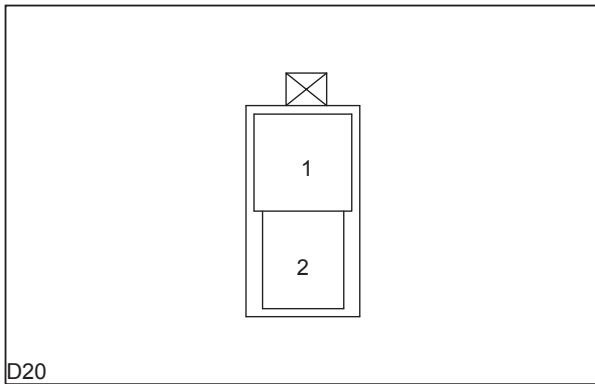
Door Harness Connector(D--)  
RF Door Power Window Motor Connector



D17 Pin Definition

| Pin Number | Wire Width / Color | Function                         |
|------------|--------------------|----------------------------------|
| 1          | 1.25 W/R           | RF door power Window switch up   |
| 2          | 1.25 W/B           | RF door power Window switch down |

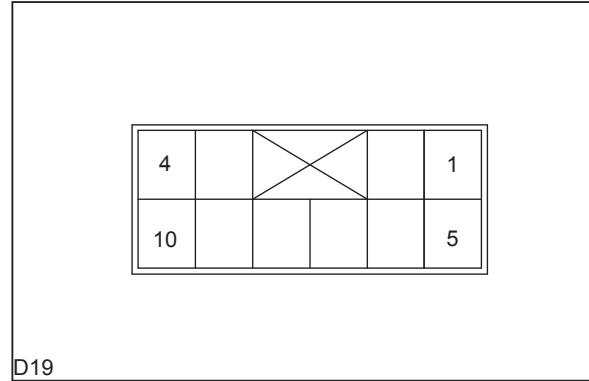
LR Door Power Window Motor Connector



D20 Pin Definition

| Pin Number | Wire Width / Color | Function                         |
|------------|--------------------|----------------------------------|
| 1          | 1.25 W/R           | LR door power Window switch up   |
| 2          | 1.25 W/B           | LR door power Window switch down |

Door Harness Connector(D--)  
LR Door Controller 1 Connector



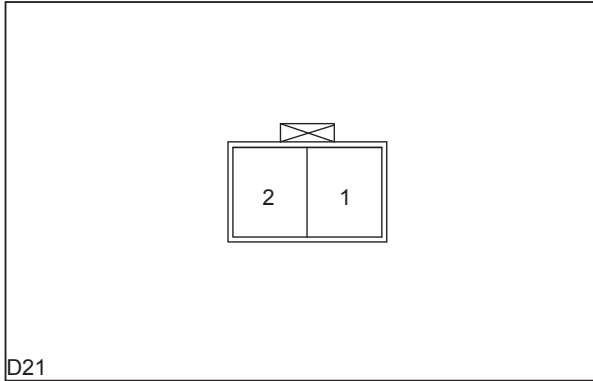
D19 Pin Definition

| Pin Number | Wire Width / Color | Function                         |
|------------|--------------------|----------------------------------|
| 1          | 0.50 G/B           | LR door lamp control             |
| 2          | 0.50 V             | Width lamp power                 |
| 3          | 0.50 G             | LIN                              |
| 4          | 0.50 R             | Power                            |
| 5          | 1.25 W/B           | LR door power window switch down |
| 6          | 1.25 W/R           | LR door power window switch up   |
| 7          | 2.00 R/O           | Switch power                     |
| 8          | 2.00 B             | Ground                           |
| 9          | 0.85 O/R           | LR door lock                     |
| 10         | 0.85 O/W           | LR door unlock                   |

# Harness Connector View

Door Harness Connector(D--)

LR Door Lamp Connector



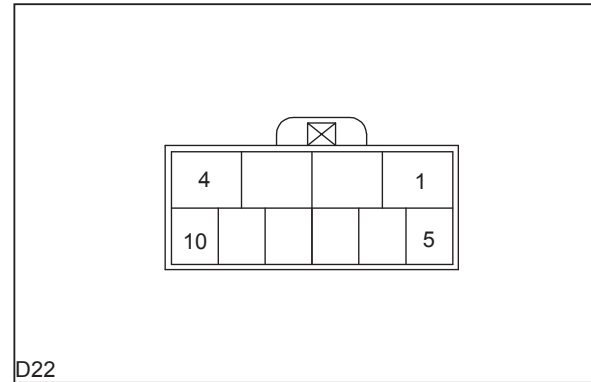
D21

D21 Pin Definition

| Pin Number | Wire Width / Color | Function             |
|------------|--------------------|----------------------|
| 1          | 0.50 G/B           | LR door lamp control |
| 2          | 0.50 R/O           | LR door lamp power   |

Door Harness Connector(D--)

LR Door Lock Motor Connector



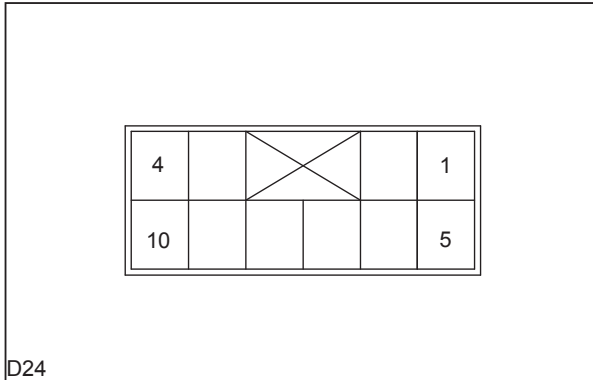
D22

D22 Pin Definition

| Pin Number | Wire Width / Color | Function            |
|------------|--------------------|---------------------|
| 1          | 0.85 O/R           | RF door lock lock   |
| 2          |                    | NC                  |
| 3          |                    | NC                  |
| 4          | 0.85 O/W           | RF door lock unlock |
| 5          |                    | NC                  |
| 6          |                    | NC                  |
| 7          |                    | NC                  |
| 8          |                    | NC                  |
| 9          |                    | NC                  |
| 10         |                    | NC                  |

# Harness Connector View

Door Harness Connector(D--)  
RR Door Controller Connector

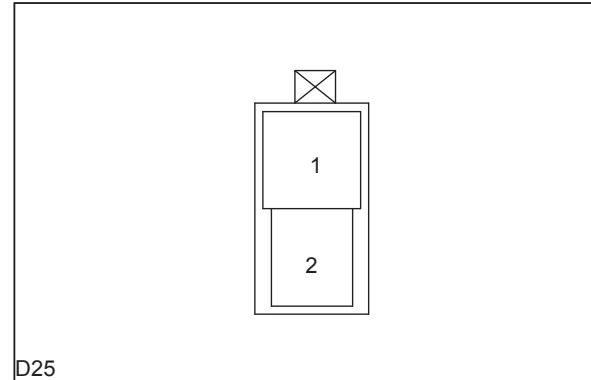


D24

### D24 Pin Definition

| Pin Number | Wire Width / Color | Function                         |
|------------|--------------------|----------------------------------|
| 1          | 0.50 G/B           | RR door lamp control             |
| 2          | 0.50 V             | Width lamp power                 |
| 3          | 0.50 G             | LIN                              |
| 4          | 0.50 R             | Power                            |
| 5          | 1.25 W/B           | RR door power window switch down |
| 6          | 1.25 W/R           | RR door power window switch up   |
| 7          | 2.00 R/W           | Switch power                     |
| 8          | 2.00 B             | Ground                           |
| 9          | 0.85 O/R           | RR door lock signal              |
| 10         | 0.85 O/W           | RR door unlock signal            |

Door Harness Connector(D--)  
RR Door Power Window Motor Connector

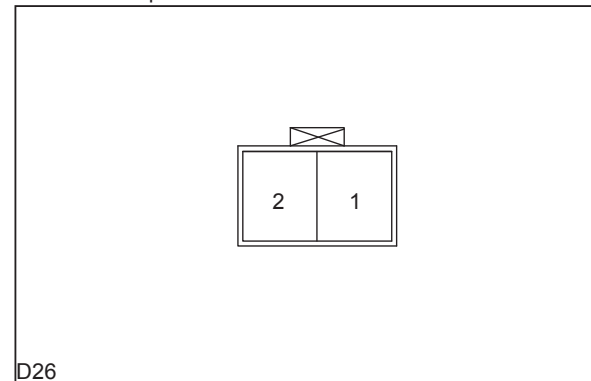


D25

### D25 Pin Definition

| Pin Number | Wire Width / Color | Function                         |
|------------|--------------------|----------------------------------|
| 1          | 1.25 W/R           | RR door power Window switch up   |
| 2          | 1.25 W/B           | RR door power Window switch down |

RR Door Lamp Connector



D26

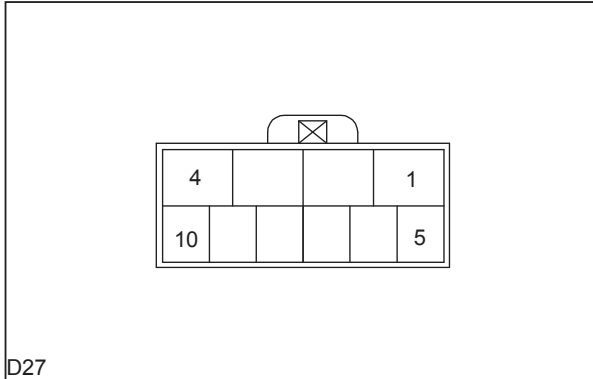
### D26 Pin Definition

| Pin Number | Wire Width / Color | Function             |
|------------|--------------------|----------------------|
| 1          | 0.50 G/B           | RR door lamp control |
| 2          | 0.50 R/W           | RR door lamp power   |



# Harness Connector View

Door Harness Connector(D--)  
RR Door Lock Motor Connector

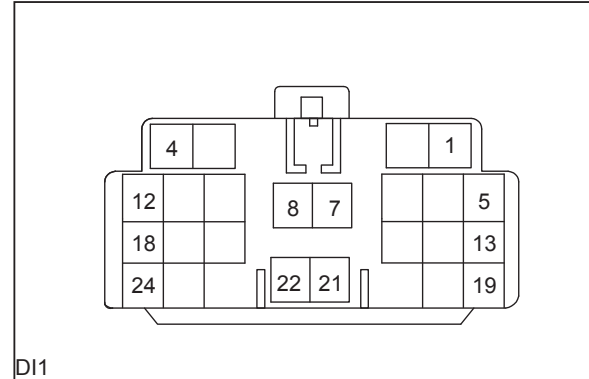


D27

## D27 Pin Definition

| Pin Number | Wire Width / Color | Function       |
|------------|--------------------|----------------|
| 1          | 0.85 O/R           | RR door lock   |
| 2          |                    | NC             |
| 3          |                    | NC             |
| 4          | 0.85 O/W           | RR door unlock |
| 5          |                    | NC             |
| 6          |                    | NC             |
| 7          |                    | NC             |
| 8          |                    | NC             |
| 9          |                    | NC             |
| 10         |                    | NC             |

Door Harness Connector(D--)  
Door Harness to IP Harness Connector



D11

## D11 Pin Definition

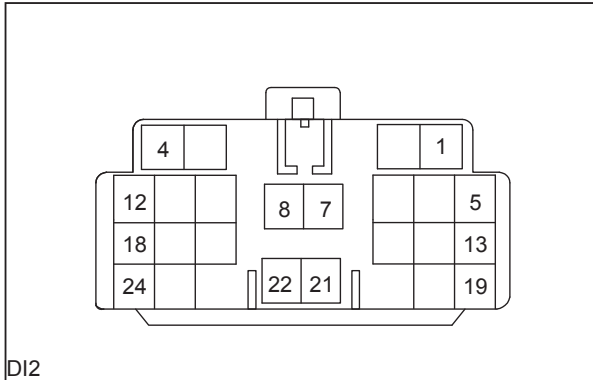
| Pin Number | Wire Width / Color | Function                              |
|------------|--------------------|---------------------------------------|
| 1          | 0.50 Y/G           | LR turn lamp power                    |
| 2          | 0.50 R             | LF door controller power              |
| 3          | 0.50 W             | LF door lock signal power +           |
| 4          | 0.50 W/B           | LF door lock signal power -           |
| 5          | 0.50 G/Y           | LF door antenna microswitch signal    |
| 6          | 0.50 Gr            | LF door antenna signal +              |
| 7          | 0.50 R/W           | LF rearview mirror defrost power      |
| 8          | 0.50 R/W           | LF rearview mirror switch power       |
| 9          | 2.00 R             | LF door controller switch power       |
| 10         | 0.50 Y/Gr          | LR rearview mirror left/right signal  |
| 11         | 0.50 Y/Bl          | RR rearview mirror up/down signal     |
| 12         | 0.50 Y/W           | RR rearview mirror switch common line |
| 13         | 0.50 W/Y           | LF door antenna signal -              |
| 14         | 0.50 Y/W           | LF door antenna return signal         |
| 15         | 0.50 G/B           | LF door antenna signal power          |
| 16         |                    | NC                                    |
| 17         | 0.50 G/Bl          | RR rearview mirror spread signal      |
| 18         | 0.50 G             | RR rearview mirror fold signal        |
| 19         | 0.50 Y/G           | LF door antenna signal ground         |
| 20         |                    | NC                                    |
| 21         |                    | NC                                    |
| 22         | 2.00 B             | LF door handle switch ground          |
| 23         | 0.50 V             | Width lamp power                      |
| 24         | 0.50 G             | LIN                                   |



# Harness Connector View

Door Harness Connector(D--)

Door Harness to IP Harness Connector



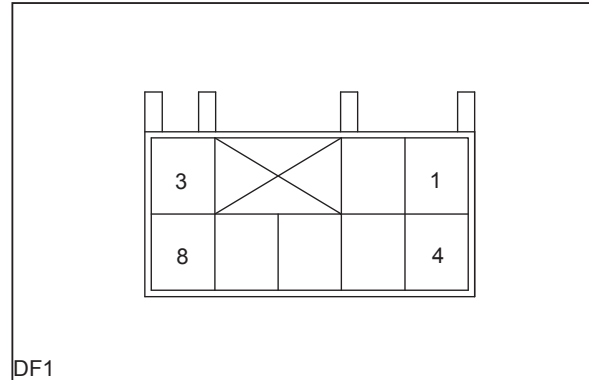
D12

D12 Pin Definition

| Pin Number | Wire Width / Color | Function                              |
|------------|--------------------|---------------------------------------|
| 1          | 0.50 R/Y           | RR rearview mirror steering signal    |
| 2          | 0.50 R             | Switch off electrical output power    |
| 3          | 0.50 O/B           | RF speaker signal -                   |
| 4          | 0.50 O             | RF speaker signal +                   |
| 5          | 0.50 Y/Gr          | RR rearview mirror control            |
| 6          | 0.50 Y/BI          | RR rearview mirror control            |
| 7          | 0.50 Y/W           | RR rearview mirror switch common line |
| 8          | 2.00 R/B           | RF door armrest switch power          |
| 9          |                    | NC                                    |
| 10         |                    | NC                                    |
| 11         |                    | NC                                    |
| 12         | 0.50 R/W           | Heating power                         |
| 13         | 0.50 G/BI          | Spread signal                         |
| 14         | 0.50 G             | Folded signal                         |
| 15         |                    | NC                                    |
| 16         |                    | NC                                    |
| 17         | 0.50 V             | Width lamp power                      |
| 18         | 0.50 G             | LIN                                   |
| 19         |                    | NC                                    |
| 20         |                    | NC                                    |
| 21         |                    | NC                                    |
| 22         | 2.00 B             | Ground                                |
| 23         |                    | NC                                    |
| 24         |                    | NC                                    |

Door Harness Connector(D--)

Door Harness to Left Body Harness Connector



DF1

DF1 Pin Definition

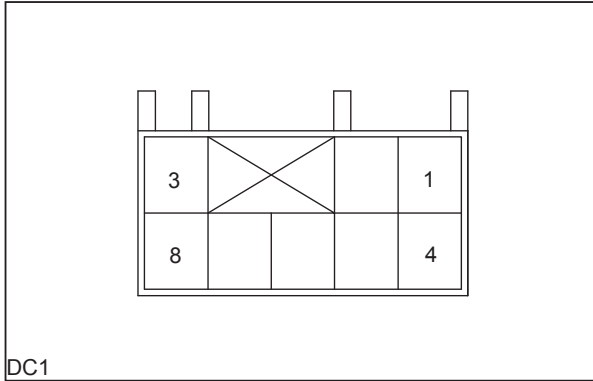
| Pin Number | Wire Width / Color | Function         |
|------------|--------------------|------------------|
| 1          | 2.00 R/O           | Switch power     |
| 2          | 0.50 R             | Power            |
| 3          | 2.00 B             | Ground           |
| 4          | 0.50 G             | LIN              |
| 5          | 0.50 V             | Width lamp power |
| 6          |                    | NC               |
| 7          |                    | NC               |
| 8          |                    | NC               |



# Harness Connector View

Door Harness Connector(D--)

Door Harness to Right Body Harness Connector



DC1

DC1 Pin Definition

| Pin Number | Wire Width / Color | Function         |
|------------|--------------------|------------------|
| 1          | 2.00 R/W           | Switch power     |
| 2          | 0.50 R             | Power            |
| 3          | 2.00 B             | Ground           |
| 4          | 0.50 G             | LIN              |
| 5          | 0.50 V             | Width lamp power |
| 6          |                    | NC               |
| 7          |                    | NC               |
| 8          |                    | NC               |

Door Harness Connector(D--)

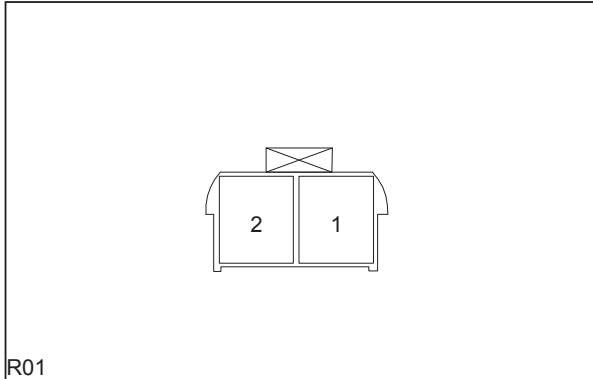




# Harness Connector View

Roof Harness Connector(R--)

Left Cosmetic Lamp Switch Connector

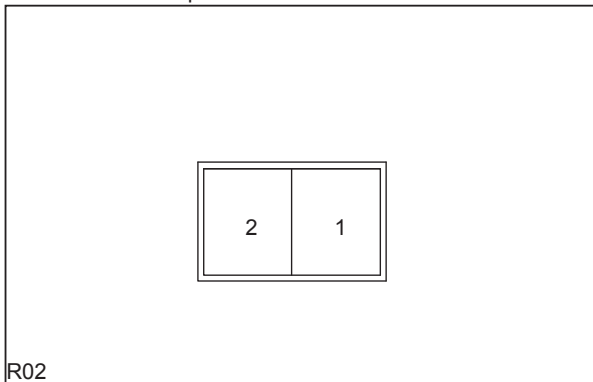


R01

R01 Pin Definition

| Pin Number | Wire Width / Color | Function |
|------------|--------------------|----------|
| 1          | 0.50 B             | Ground   |
| 2          | 0.50 BI            | Power    |

Left Cosmetic Lamp Connector



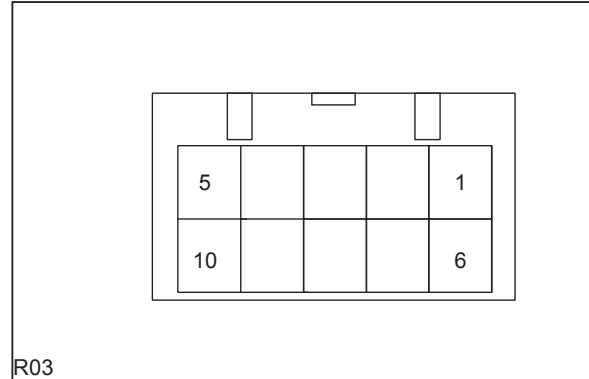
R02

R02 Pin Definition

| Pin Number | Wire Width / Color | Function     |
|------------|--------------------|--------------|
| 1          | 0.50 R/G           | Power        |
| 2          | 0.50 BI            | Power output |

Roof Harness Connector(R--)

Sunroof ECU Connector



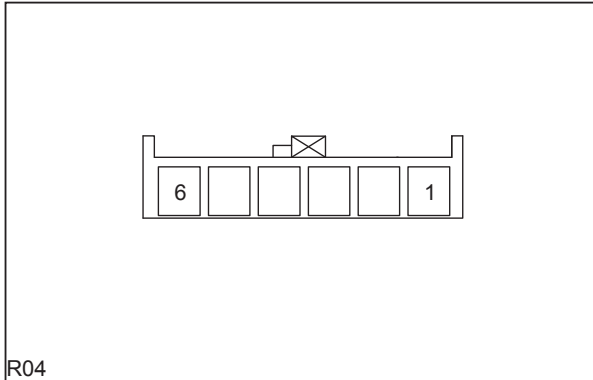
R03

R03 Pin Definition

| Pin Number | Wire Width / Color | Function                 |
|------------|--------------------|--------------------------|
| 1          | 0.50 B             | Ground                   |
| 2          | 2.00 B             | Ground                   |
| 3          | 0.50 R/W           | IG1 power                |
| 4          | 0.50 G             | LIN                      |
| 5          | 0.50 Y/BI          | Sunroof OFF signal       |
| 6          | 2.00 R             | Sunroof motor power      |
| 7          | 0.50 R/Y           | Sunroof controller power |
| 8          |                    | NC                       |
| 9          |                    | NC                       |
| 10         | 0.50 Y/G           | Sunroof ON signal        |

# Harness Connector View

Roof Harness Connector(R--)  
Front Dome Lamp/Sunroof Switch Connector

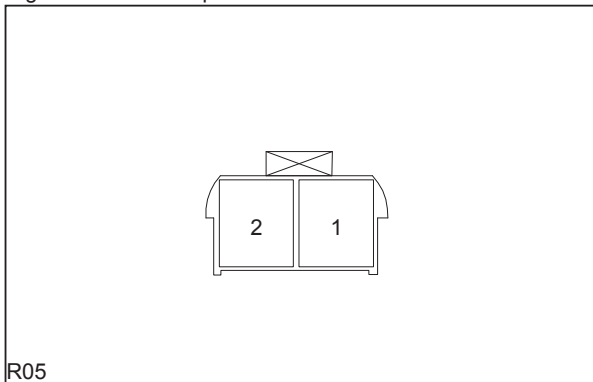


R04

R04 Pin Definition

| Pin Number | Wire Width / Color | Function                            |
|------------|--------------------|-------------------------------------|
| 1          | 0.50 B             | Ground                              |
| 2          | 0.50 Y/G           | Sunroof ON signal                   |
| 3          | 0.50 Y/BI          | Sunroof OFF signal                  |
| 4          | 0.50 G/Gr          | Front dome lamp delay switch signal |
| 5          | 0.50 B             | Ground                              |
| 6          | 0.50 R/G           | Front dome lamp power               |

Right Cosmetic Lamp Connector

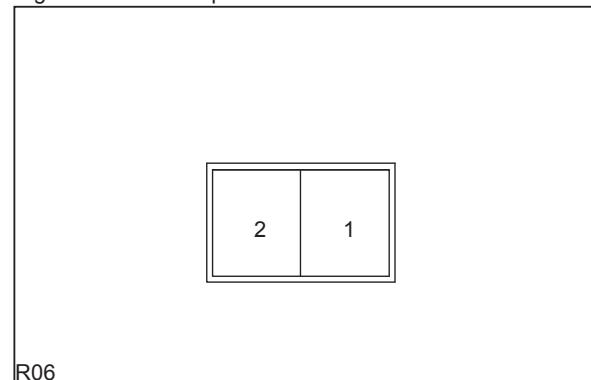


R05

R05 Pin Definition

| Pin Number | Wire Width / Color | Function     |
|------------|--------------------|--------------|
| 1          | 0.50 RG            | Power        |
| 2          | 0.50 BI            | Power output |

Roof Harness Connector(R--)  
Right Cosmetic Lamp Switch Connector



R06

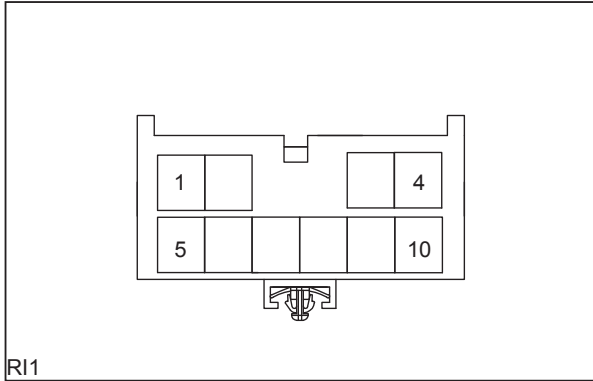
R06 Pin Definition

| Pin Number | Wire Width / Color | Function |
|------------|--------------------|----------|
| 1          | 0.50 B             | Ground   |
| 2          | 0.50 BI            | Power    |

# Harness Connector View

Roof Harness Connector(R--)

Roof Harness to IP Harness Connector



R11

R11 Pin Definition

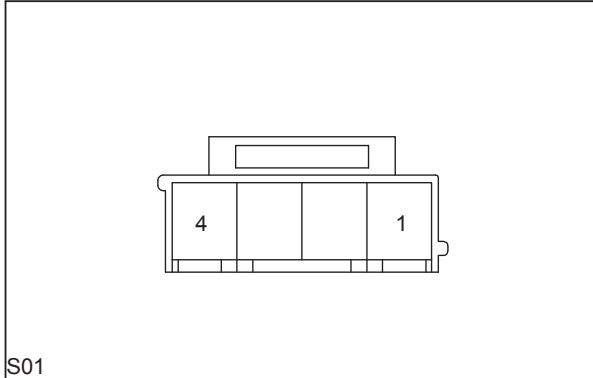
| Pin Number | Wire Width / Color | Function                            |
|------------|--------------------|-------------------------------------|
| 1          | 0.50 R/Y           | Sunroof controller power            |
| 2          |                    | NC                                  |
| 3          | 0.50 G             | LIN                                 |
| 4          | 0.50 R/G           | Front dome lamp power               |
| 5          |                    | NC                                  |
| 6          | 0.50 B             | Ground                              |
| 7          | 2.00 B             | Ground                              |
| 8          | 2.00 R/W           | Sunroof motor power                 |
| 9          | 0.50 R/W           | IG1 power                           |
| 10         | 0.50 G/Gr          | Front dome lamp delay switch signal |

Roof Harness Connector(R--)

# Harness Connector View

SRS Harness Connector(S--)

Driver Air Bag Clock Spring Connector

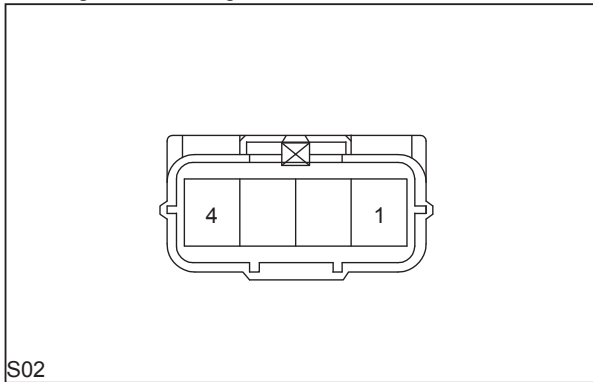


S01

S01 Pin Definition

| Pin Number | Wire Width / Color | Function               |
|------------|--------------------|------------------------|
| 1          | 0.50 O/W           | Driver Air Bag power - |
| 2          | 0.50 O/R           | Driver Air Bag power + |
| 3          |                    | NC                     |
| 4          |                    | NC                     |

Passenger Side Air Bag Connector



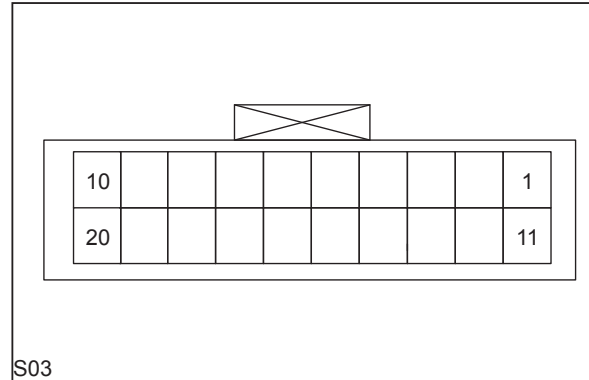
S02

S02 Pin Definition

| Pin Number | Wire Width / Color | Function |
|------------|--------------------|----------|
| 1          |                    | NC       |
| 2          | 0.50 O/G           | Power-   |
| 3          | 0.50 O/Y           | Power+   |
| 4          |                    | NC       |

SRS Harness Connector(S--)

SRS ECU 1 Connector



S03

S03 Pin Definition

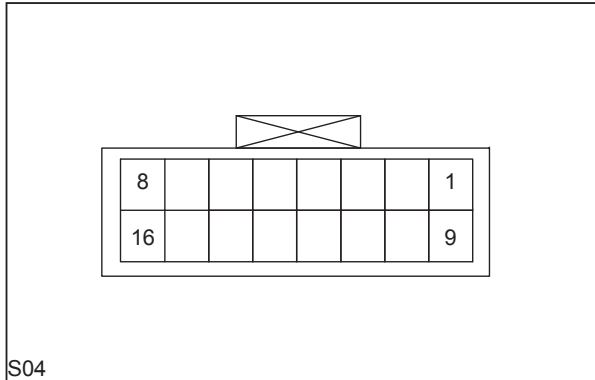
| Pin Number | Wire Width / Color | Function                                    |
|------------|--------------------|---|
| 1          | 0.50 Y             | PCAN-H                                      |
| 2          | 0.50 Y/W           | Left side collision sensor -                |
| 3          | 0.50 Y/G           | Right side collision sensor -               |
| 4          | 0.50 O/G           | Passenger Air Bag signal -                  |
| 5          | 0.50 O/V           | Passenger side safety belt warning signal - |
| 6          | 0.50 O/W           | Driver Air Bag signal -                     |
| 7          | 0.50 O/Br          | Driver side safety belt warning signal -    |
| 8          |                    | NC  |
| 9          |                    | NC  |
| 10         | 0.50 R/W           | IG1 power                                   |
| 11         | 0.50 Y/B           | PCAN-L                                      |
| 12         | 0.50 Y             | Left side collision sensor +                |
| 13         | 0.50 Y/R           | Right side collision sensor +               |
| 14         | 0.50 O/Y           | Passenger Air Bag signal +                  |
| 15         | 0.50 O/Gr          | Passenger side safety belt warning signal + |
| 16         | 0.50 O/R           | Driver Air Bag signal +                     |
| 17         | 0.50 O/Bl          | Driver side safety belt warning signal +    |
| 18         |                    | NC  |
| 19         |                    | NC  |
| 20         | 0.50 B             | Ground                                      |



# Harness Connector View

SRS Harness Connector(S--)

SRS ECU 2 Connector



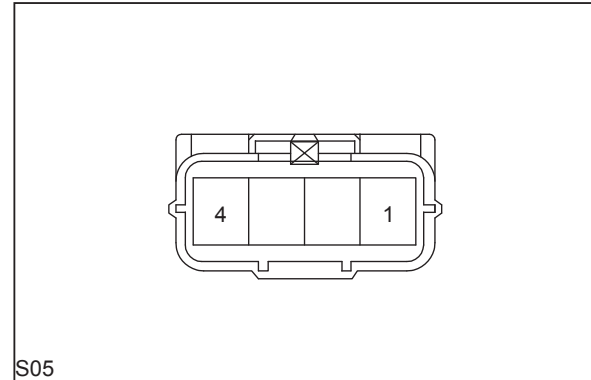
S04

S04 Pin Definition

| Pin Number | Wire Width / Color | Function                           |
|------------|--------------------|------------------------------------|
| 1          | 0.50 O/B           | Driver air bag signal -            |
| 2          | 0.50 V/W           | Passenger air Bag signal +         |
| 3          | 0.50 V/Y           | Left air curtain signal +          |
| 4          | 0.50 V/Bl          | Right air curtain signal -         |
| 5          |                    | NC                                 |
| 6          |                    | NC                                 |
| 7          | 0.50 Y             | Left side collision sensor signal  |
| 8          | 0.50 Y/R           | Right side collision sensor signal |
| 9          | 0.50 V/R           | Driver air Bag signal +            |
| 10         | 0.50 V/G           | Passenger air bag signal -         |
| 11         | 0.50 V/Br          | Left air curtain signal -          |
| 12         | 0.50 V/Gr          | Right air curtain signal +         |
| 13         |                    | NC                                 |
| 14         |                    | NC                                 |
| 15         | 0.50 Y/W           | Left side collision sensor signal  |
| 16         | 0.50 Y/G           | Right side collision sensor signal |

SRS Harness Connector(S--)

RF Door Safety Air Curtain Connector

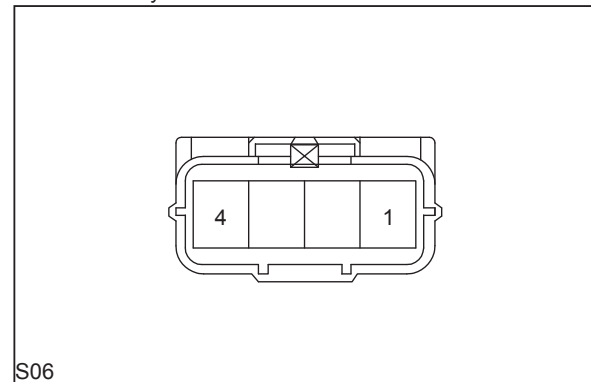


S05

S05 Pin Definition

| Pin Number | Wire Width / Color | Function                            |
|------------|--------------------|-------------------------------------|
| 1          |                    | NC                                  |
| 2          | 0.50 V/G           | LF Door safety air curtain signal - |
| 3          | 0.50 V/W           | LF Door safety air curtain signal + |
| 4          |                    | NC                                  |

LF Door Safety Air Curtain Connector



S06

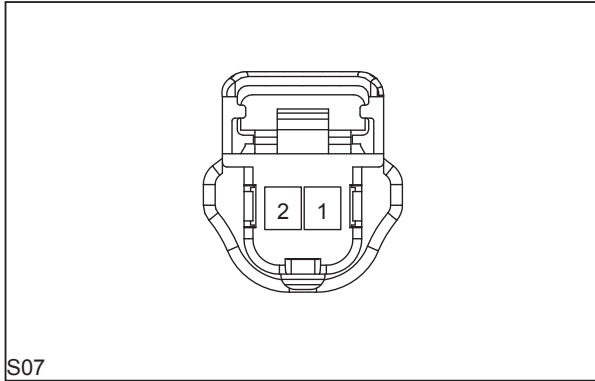
S06 Pin Definition

| Pin Number | Wire Width / Color | Function                            |
|------------|--------------------|-------------------------------------|
| 1          |                    | NC                                  |
| 2          | 0.50 V/R           | LF Door safety air curtain signal + |
| 3          | 0.50 O/B           | LF Door safety air curtain signal - |
| 4          |                    | NC                                  |

# Harness Connector View

SRS Harness Connector(S--)

Left Side Collision Sensor Connector

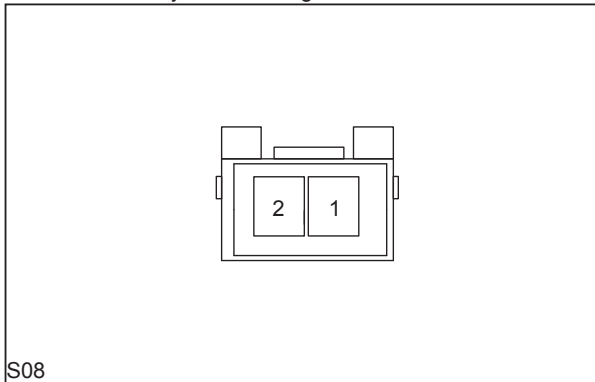


S07

S07 Pin Definition

| Pin Number | Wire Width / Color | Function                     |
|------------|--------------------|------------------------------|
| 1          | 0.50 Y/W           | Left side collision sensor + |
| 2          | 0.50 Y             | Left side collision sensor - |

Driver Side Safety Belt Warning Connector



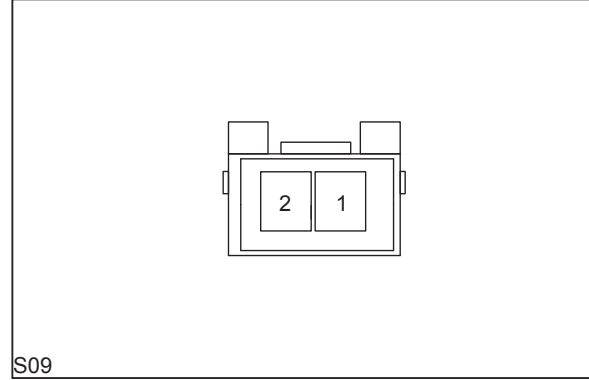
S08

S08 Pin Definition

| Pin Number | Wire Width / Color | Function                                 |
|------------|--------------------|--|
| 1          | 0.50 O/Bl          | Driver side safety belt warning signal + |
| 2          | 0.50 O/Br          | Driver side safety belt warning signal - |

SRS Harness Connector(S--)

LR Door Safety Air Curtain Connector

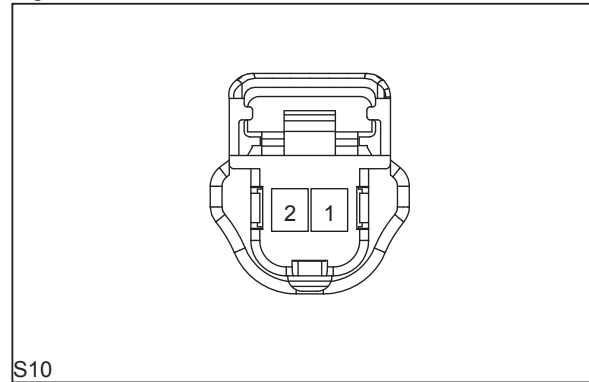


S09

S09 Pin Definition

| Pin Number | Wire Width / Color | Function                    |
|------------|--------------------|-----------------------------|
| 1          | 0.50 V/Br          | Safety Air curtain signal - |
| 2          | 0.50 V/Y           | Safety Air curtain signal + |

Right Side Collision Sensor Connector



S10

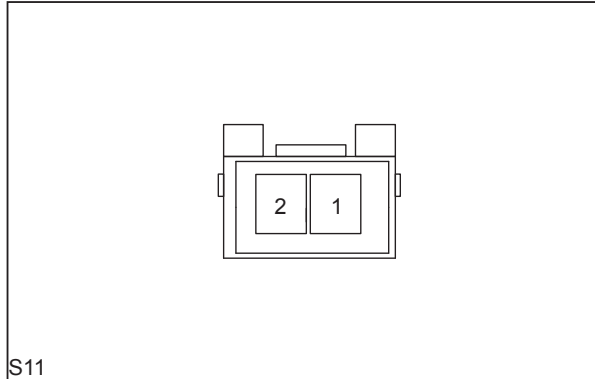
S10 Pin Definition

| Pin Number | Wire Width / Color | Function                      |
|------------|--------------------|-------------------------------|
| 1          | 0.50 Y/G           | Right side collision sensor + |
| 2          | 0.50 Y/R           | Right side collision sensor - |



# Harness Connector View

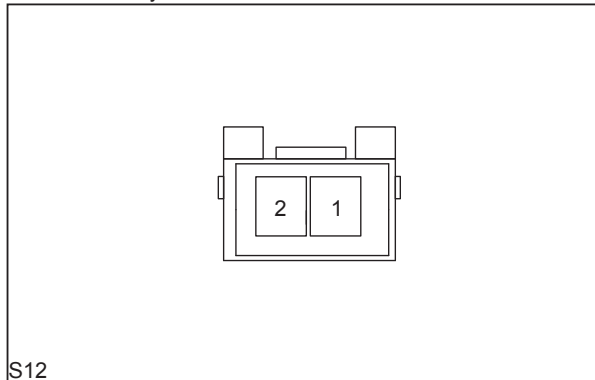
SRS Harness Connector(S--)  
Passenger Side Safety Belt Warning Connector



S11 Pin Definition

| Pin Number | Wire Width / Color | Function                                    |
|------------|--------------------|---|
| 1          | 0.50 O/V           | Passenger side safety belt warning signal - |
| 2          | 0.50 O/Gr          | Passenger side safety belt warning signal + |

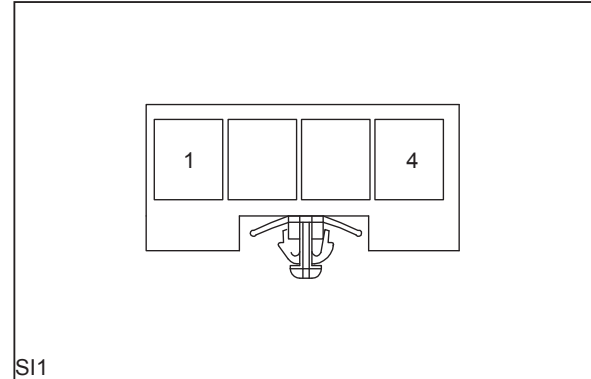
RR Door Safety Air Curtain Connector



S12 Pin Definition

| Pin Number | Wire Width / Color | Function                    |
|------------|--------------------|-----------------------------|
| 1          | 0.50 V/Bl          | Safety air curtain signal - |
| 2          | 0.50 V/Gr          | Safety air curtain signal + |

SRS Harness Connector(S--)  
SRS Harness to IP Harness Connector



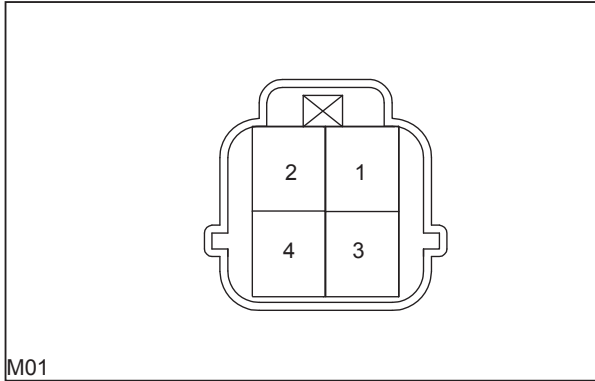
S11 Pin Definition

| Pin Number | Wire Width / Color | Function  |
|------------|--------------------|-----------|
| 1          | 0.50 R/W           | IG1 power |
| 2          | 0.50 Y             | PCAN-H    |
| 3          | 0.50 Y/B           | PCAN-L    |
| 4          |                    | NC        |

# Harness Connector View

Rear Bumper Harness Connector(M--)

LR Reverse Radar Connector

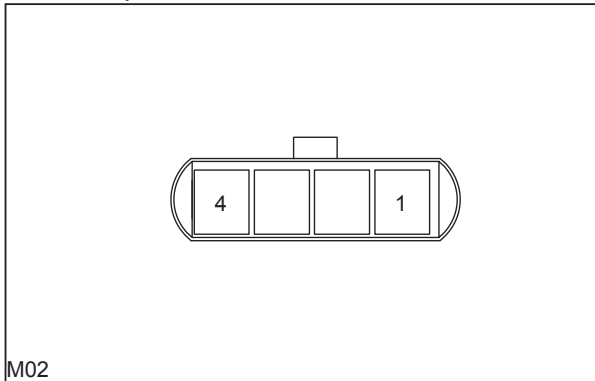


M01

M01 Pin Definition

| Pin Number | Wire Width / Color | Function             |
|------------|--------------------|----------------------|
| 1          | 0.50 G/B           | Ground               |
| 2          | 0.50 G/Y           | Reverse radar signal |
| 3          | 0.50 G/B           | Ground               |
| 4          | 0.50 G/R           | Reverse radar Power  |

Automatically ON The Trunk Model Connector



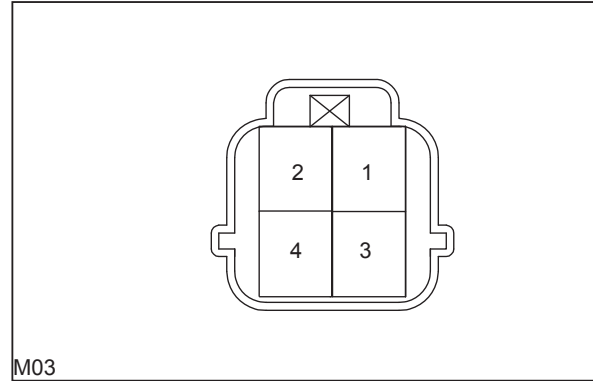
M02

M02 Pin Definition

| Pin Number | Wire Width / Color | Function |
|------------|--------------------|----------|
| 1          | 0.50 B             | Ground   |
| 2          |                    | NC       |
| 3          | 0.50 G             | LIN      |
| 4          | 0.50 O/R           | Power    |

Rear Bumper Harness Connector(M--)

LR Reverse Radar(Medio) Connector

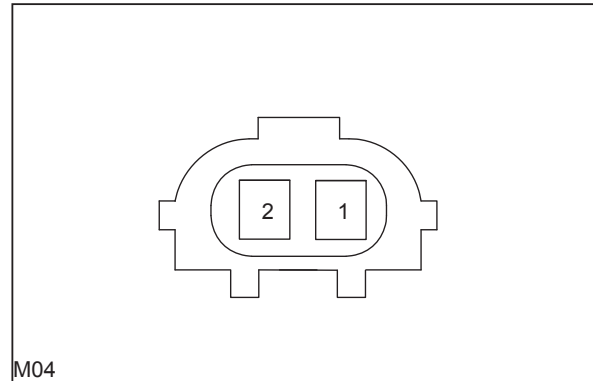


M03

M03 Pin Definition

| Pin Number | Wire Width / Color | Function             |
|------------|--------------------|----------------------|
| 1          | 0.50 G/B           | Ground               |
| 2          | 0.50 G/Y           | Reverse radar signal |
| 3          | 0.50 G/R           | Reverse radar power  |
| 4          | 0.50 G/R           | Reverse radar power  |

PEPS Antenna Connector



M04

M04 Pin Definition

| Pin Number | Wire Width / Color | Function       |
|------------|--------------------|----------------|
| 1          | 0.50 Gr/R          | PEPS antenna - |
| 2          | 0.50 Br/Y          | PEPS antenna + |

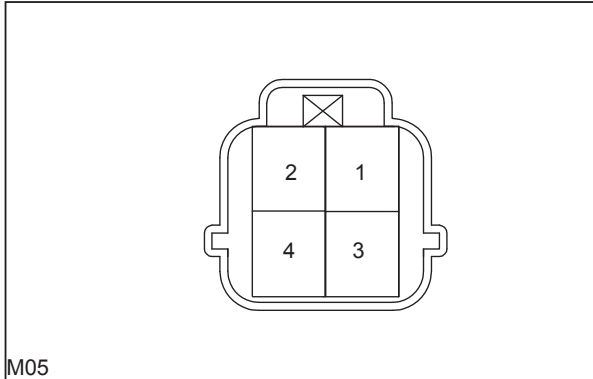




# Harness Connector View

Rear Bumper Harness Connector(M--)

RR Reverse Radar(Medio) Connector

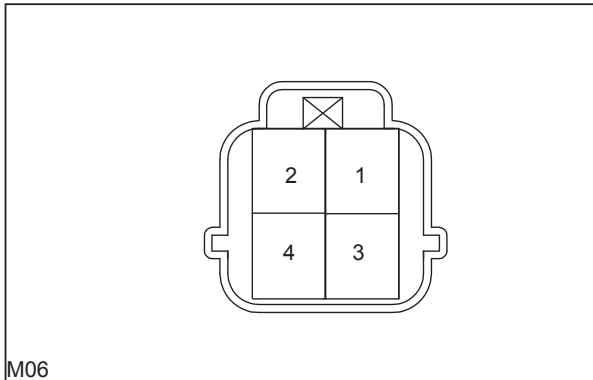


M05

M05 Pin Definition

| Pin Number | Wire Width / Color | Function             |
|------------|--------------------|----------------------|
| 1          | 0.50 G/B           | Ground               |
| 2          | 0.50 G/Y           | Reverse radar signal |
| 3          | 0.50 G/Y           | Reverse radar signal |
| 4          | 0.50 G/R           | Reverse radar power  |

RR Reverse Radar Connector



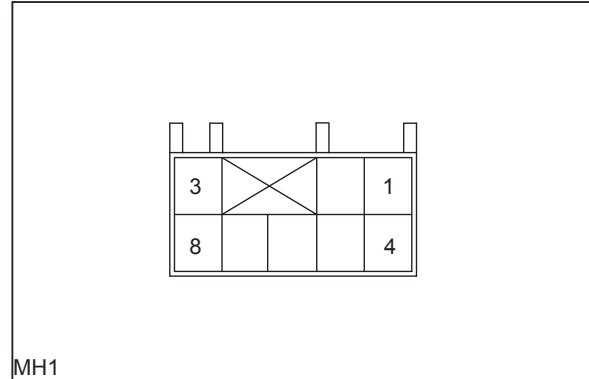
M06

M06 Pin Definition

| Pin Number | Wire Width / Color | Function             |
|------------|--------------------|----------------------|
| 1          | 0.50 G/B           | Ground               |
| 2          | 0.50 G/Y           | Reverse radar signal |
| 3          |                    | NC                   |
| 4          | 0.50 G/R           | Reverse radar power  |

Rear Bumper Harness Connector(M--)

Rear Bumper Harness to Rear Body Harness Connector



MH1

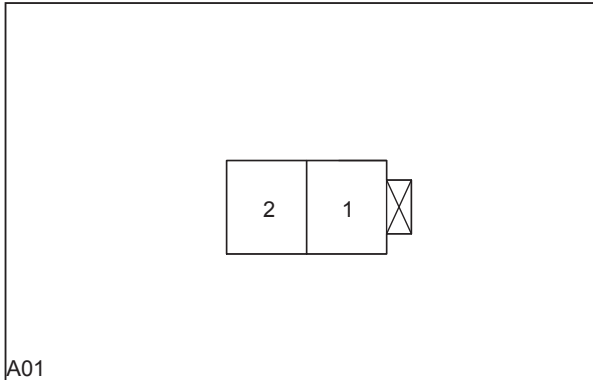
MH1 Pin Definition

| Pin Number | Wire Width / Color | Function                               |
|------------|--------------------|--|
| 1          | 0.50 G/Y           | Reverse radar signal                   |
| 2          | 0.50 G/B           | Ground                                 |
| 3          | 0.50 Br/Y          | PEPS antenna +                         |
| 4          | 0.50 Gr/R          | PEPS antenna -                         |
| 5          | 0.50 O/R           | Automatically ON the trunk model power |
| 6          | 0.50 G             | LIN                                    |
| 7          | 0.50 G/R           | Reverse radar power                    |
| 8          |                    | NC                                     |

# Harness Connector View

Air Conditioning Harness Connector(A--)

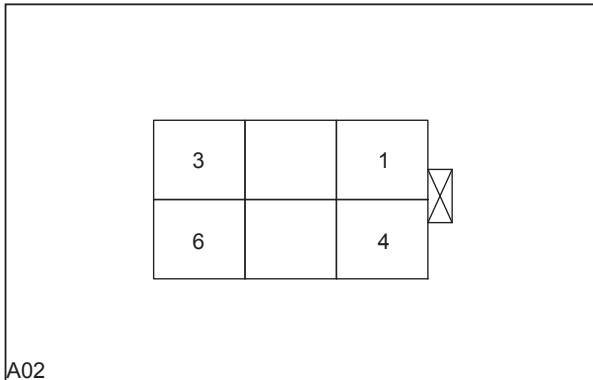
Blower Connector



A01 Pin Definition

| Pin Number | Wire Width / Color | Function       |
|------------|--------------------|----------------|
| 1          | 4.00 R/W           | Blower motor + |
| 2          | 4.00 Br            | Blower motor - |

In And Outside Circulation Motor Connector

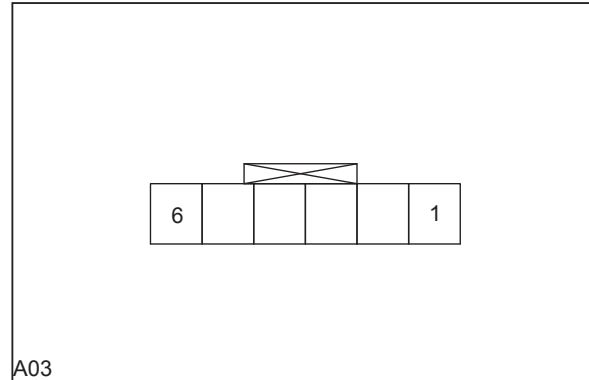


A02 Pin Definition

| Pin Number | Wire Width / Color | Function                           |
|------------|--------------------|------------------------------------|
| 1          | 0.50 B/Y           | 5V power                           |
| 2          | 0.50 Br            | Ground                             |
| 3          | 0.50 B/Bl          | Position signal                    |
| 4          | 0.50 G/Y           | In and outside circulation motor + |
| 5          |                    | NC                                 |
| 6          | 0.50 R/Y           | In and outside circulation motor - |

Air Conditioning Harness Connector(A--)

Blower Adjust Speed Model Connector



A03 Pin Definition

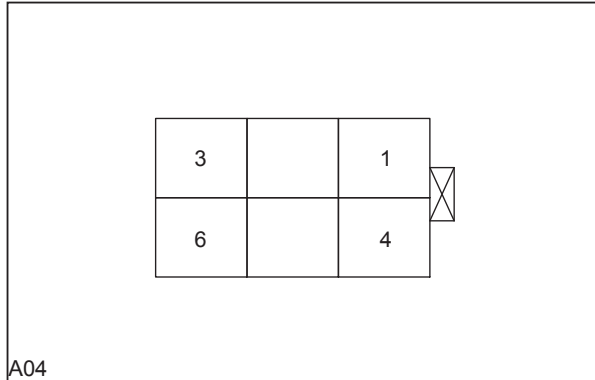
| Pin Number | Wire Width / Color | Function                        |
|------------|--------------------|---------------------------------|
| 1          | 4.00 Br            | Blower motor -                  |
| 2          | 4.00 R/W           | Blower motor +                  |
| 3          | 3.00 R/B           | Blower adjust speed model power |
| 4          | 0.50 O             | Blower adjust speed signal      |
| 5          | 0.50 G             | Blower adjust speed control     |
| 6          | 3.00 B             | Ground                          |



# Harness Connector View

Air Conditioning Harness Connector(A--)

Air Fixing Motor Connector

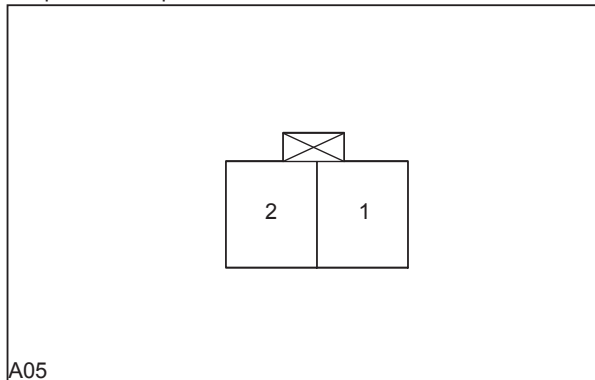


A04

A04 Pin Definition

| Pin Number | Wire Width / Color | Function           |
|------------|--------------------|--------------------|
| 1          | 0.50 G             | 5V power           |
| 2          | 0.50 Br            | Ground             |
| 3          | 0.50 Y             | Position signal    |
| 4          | 0.50 B             | Air fixing motor - |
| 5          |                    | NC                 |
| 6          | 0.50 R             | Air fixing motor + |

Evaporator Temperature Sensor Connector



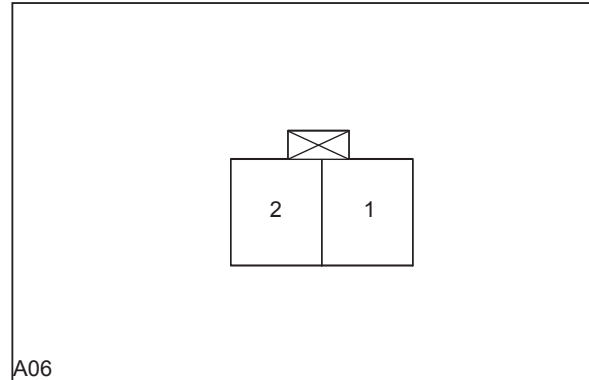
A05

A05 Pin Definition

| Pin Number | Wire Width / Color | Function                             |
|------------|--------------------|--------------------------------------|
| 1          | 0.50 O             | Evaporator temperature sensor signal |
| 2          | 0.50 Bl/W          | Ground                               |

Air Conditioning Harness Connector(A--)

Indoor Temperature Sensor Connector



A06

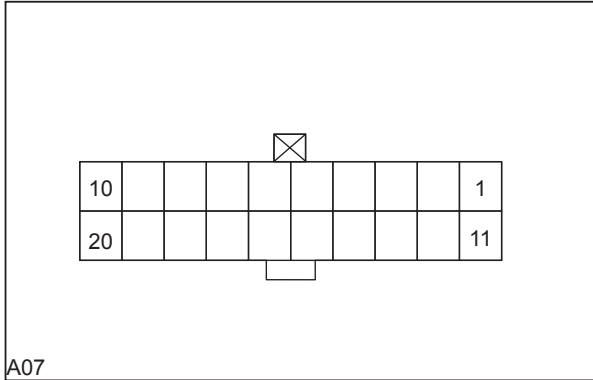
A06 Pin Definition

| Pin Number | Wire Width / Color | Function                  |
|------------|--------------------|---------------------------|
| 1          | 0.50 Bl/W          | Ground                    |
| 2          | 0.50 W/Y           | Inside temperature sensor |

# Harness Connector View

Air Conditioning Harness Connector(A--)

AC Control Pandel 2 Connector



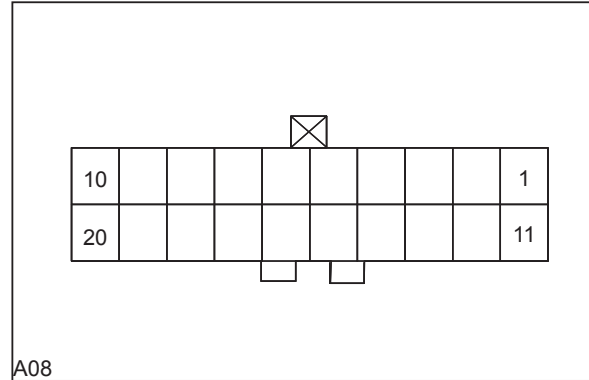
A07

A07 Pin Definition

| Pin Number | Wire Width / Color | Function   |
|------------|--------------------|--|
| 1          | 0.50 Y/W           | Model damper motor 5V power                      |
| 2          | 0.50 W             | Model damper motor position signal               |
| 3          | 0.50 W/Bl          | Model damper motor -                             |
| 4          | 0.50 Gr            | Model damper motor +                             |
| 5          |                    | NC   |
| 6          | 0.50 R/W           | Rear defrosting control                          |
| 7          | 0.50 W/B           | Blower relay control                             |
| 8          | 0.50 G             | Blower control                                   |
| 9          | 0.50 O             | Blower signal                                    |
| 10         | 0.50 Br            | Ground   |
| 11         | 0.50 B/Y           | In and outside criculation motor 5V power        |
| 12         | 0.50 B/Bl          | In and outside criculation motor position signal |
| 13         | 0.50 G/Y           | In and outside criculation motor +               |
| 14         | 0.50 R/Y           | In and outside criculation motor -               |
| 15         |                    | NC   |
| 16         | 0.50 G             | Air fixing motor 5V power                        |
| 17         | 0.50 Y             | Air fixing motor position signal                 |
| 18         | 0.50 B             | Air fixing motor -                               |
| 19         | 0.50 R             | Air fixing motor +                               |
| 20         |                    | NC   |

Air Conditioning Harness Connector(A--)

AC Control Pandel 1 Connector



A08

A08 Pin Definition

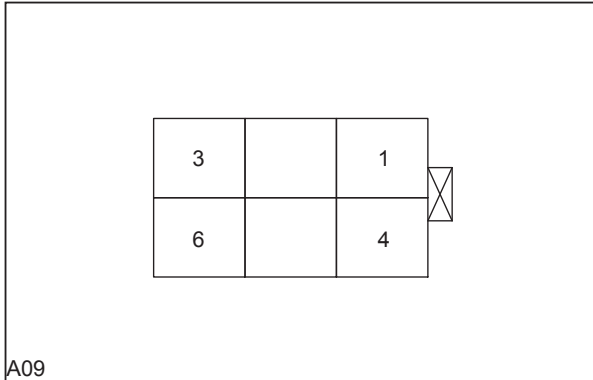
| Pin Number | Wire Width / Color | Function                             |
|------------|--------------------|--------------------------------------|
| 1          | 0.50 Br/W          | Ground                               |
| 2          | 0.85 R/Gr          | Compressor control power +(2.0T)     |
| 3          | 0.50 P/W           | BCAN-L                               |
| 4          | 0.50 Gr/B          | BCAN-H                               |
| 5          | 0.50 R             | Compressor control signal            |
| 6          | 0.50 Bl/W          | Ground                               |
| 7          | 0.50 Y/R           | Ambient lamp sensor signal           |
| 8          | 0.50 W/Y           | Inside temperature sensor signal     |
| 9          | 0.50 O             | Evaporator temperature sensor signal |
| 10         | 0.50 V/W           | outside temperature sensor signal    |
| 11         |                    | NC                                   |
| 12         | 0.85 B/P           | Compressor control power -(2.0T)     |
| 13         |                    | NC                                   |
| 14         |                    | NC                                   |
| 15         |                    | NC                                   |
| 16         | 0.50 Y/B           | Width lamp power                     |
| 17         |                    | NC                                   |
| 18         | 0.50 B/R           | IG1 power                            |
| 19         | 0.50 Y             | K-line                               |
| 20         | 0.50 W/V           | Battery power                        |



# Harness Connector View

Air Conditioning Harness Connector(A--)

Model Damper Motor Connector



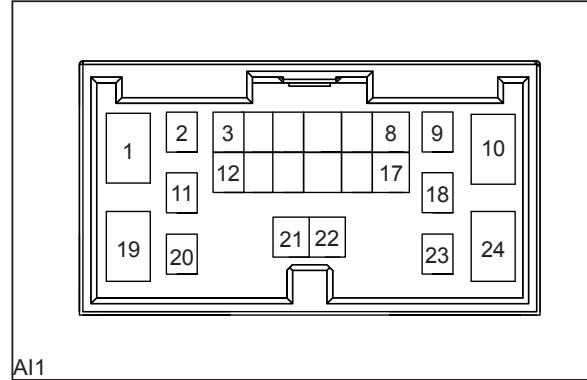
A09

A09 Pin Definition

| Pin Number | Wire Width / Color | Function                           |
|------------|--------------------|------------------------------------|
| 1          | 0.50 Y/W           | Model damper motor 5V power        |
| 2          | 0.50 Br            | Ground                             |
| 3          | 0.50 W             | Model damper motor position signal |
| 4          | 0.50 W/BI          | Model damper motor -               |
| 5          |                    | NC                                 |
| 6          | 0.50 Gr            | Model damper motor +               |

Air Conditioning Harness Connector(A--)

Air Conditioning Harness to IP Harness Connector



A11

A11 Pin Definition

| Pin Number | Wire Width / Color | Function                                 |
|------------|--------------------|--|
| 1          | 3.00 B             | Ground                                   |
| 2          |                    | NC                                       |
| 3          | 0.50 Y/B           | Width lamp power                         |
| 4          | 0.50 W/B           | Blower control signal                    |
| 5          | 0.50 BI/W          | Outside temperature sensor signal ground |
| 6          | 0.50 Y/R           | Ambient light sensor signal              |
| 7          |                    | NC                                       |
| 8          | 0.85 R/Gr          | A/C compressor control vavle signal      |
| 9          |                    | NC                                       |
| 10         | 3.00 R/B           | Power                                    |
| 11         |                    | NC                                       |
| 12         | 0.50 V/W           | Outside temperature sensor signal ground |
| 13         | 0.50 Y             | K-line                                   |
| 14         | 0.50 R/W           | Rear defroster control signal            |
| 15         | 0.50 R             | A/C switch signal                        |
| 16         |                    | NC                                       |
| 17         | 0.85 B/P           | A/C compressor control vavle signal      |
| 18         | 0.50 B/R           | IG1 power                                |
| 19         |                    | NC                                       |
| 20         | 0.50 Br/W          | Ground                                   |
| 21         | 0.50 Gr/B          | BCAN-H                                   |
| 22         | 0.50 P/W           | BCAN-L                                   |
| 23         | 0.50 W/V           | Power                                    |
| 24         |                    | NC                                       |



# Abbreviations

| Abbreviations | 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 DisCharging                 |
| HOS           | Heated Oxygen Sensor                       |
| HVAC          | Heating, Ventilation and Air Conditioning  |
| I/P           | Instrument Panel                           |
| IAC           | Idle Air Control Valve                     |
| IAT           | Intake Air Temperature                     |
| ICU           | Integrated Control Unit                    |
| IPC           | Instrument Panel Cluster                   |
| ISO           | International Standards Organization       |
| ISS           | Input Shaft Speed                          |
| KS            | Knock Sensor                               |
| LED           | Lamp 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           |
| PEPS   | Passive Entry Passive Start     |
| PIN    | Personal Identification Number  |
| PWM    | Pulse Width Modulation          |
| RF     | Right Front                     |
| RR     | Right Rear                      |
| RKE    | Remote Keyless Entry            |
| 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      |
| SRR    | Supplemental Restraint System   |
| TCC    | Torque Converter Clutch         |
| TCM    | Transmission Control Module     |
| TIR    | Total Indicator Reading         |
| 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              |

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