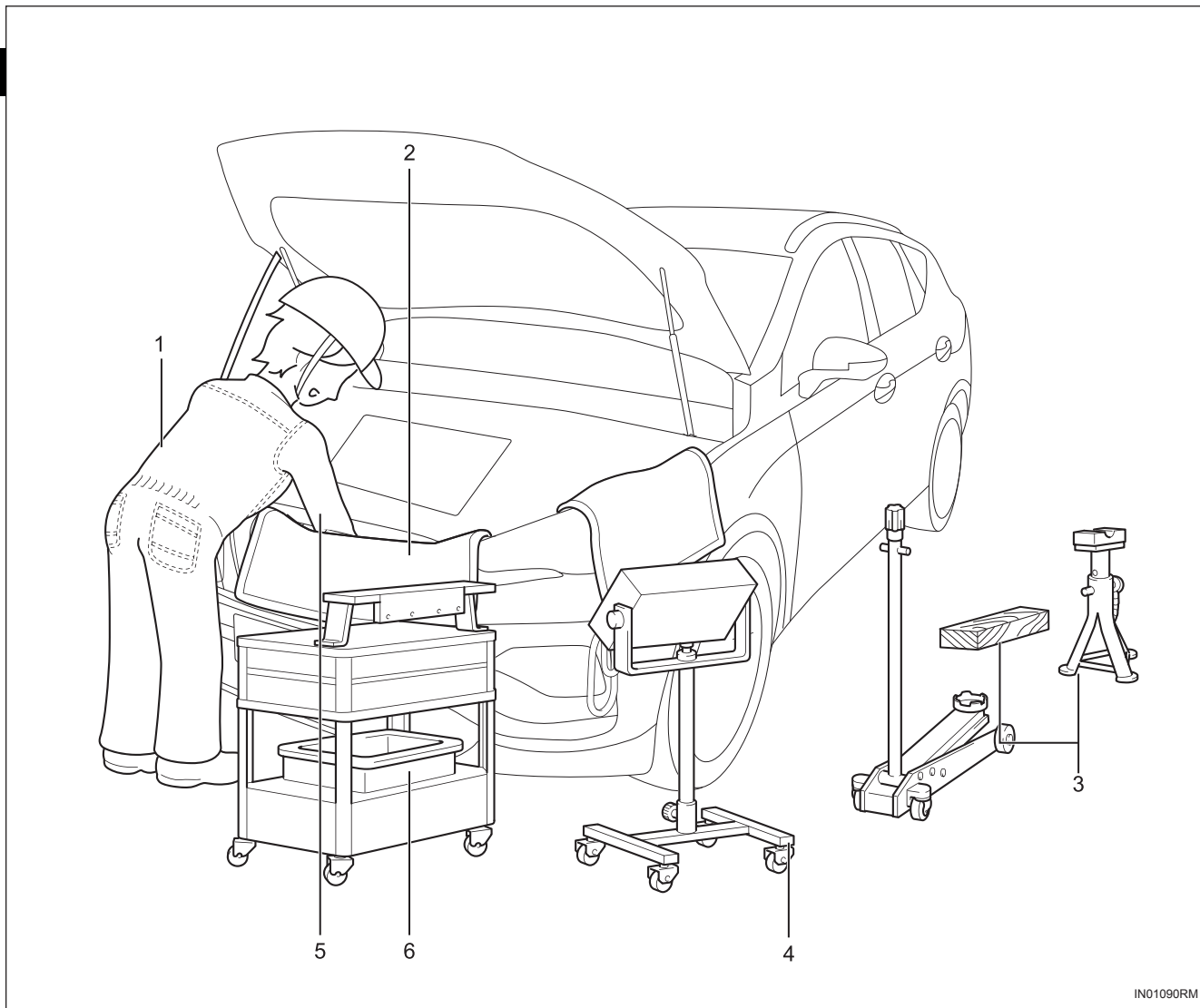


(a) Operating instructions.

IN



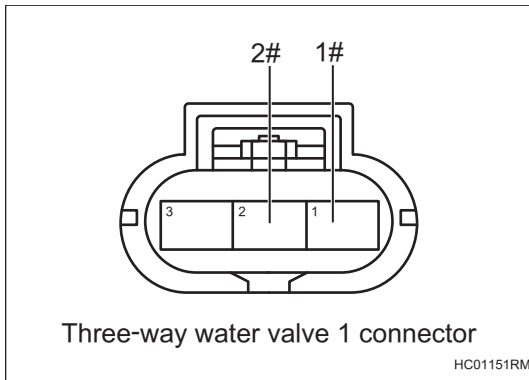
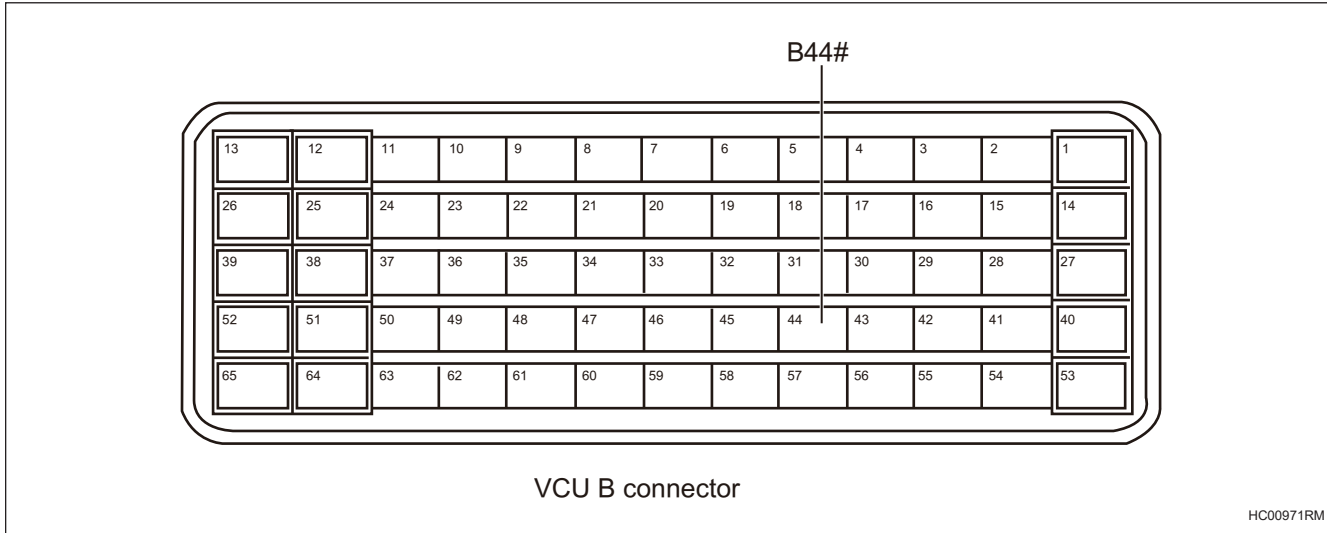
IN01090RM

| | | |
|---|--|--|
| 1 | Wear | <ul style="list-style-type: none"> • Wear clean work clothes. • Always wear a safety helmet and safety shoes. |
| 2 | Vehicle protection | <ul style="list-style-type: none"> • Put the radiator cover, mudguard cover, seat cover and floor mat properly before operation. |
| 3 | Safe operation | <ul style="list-style-type: none"> • Secure the vehicle with wheel stoppers. • When two or more operators are involved in the operation, they should confirm the safety of each other. • Prevent personal injury caused by high temperature, rotation, movement and vibration during operation. • After the vehicle is jacked up, place the brackets at the specified positions to support the vehicle. • Use safety devices to support the lifted vehicle. |
| 4 | Preparation of tools and measuring instruments | <ul style="list-style-type: none"> • Prepare the working bench, SST, measuring instruments, grease, cotton yarn and replacement parts before operation. |
| 5 | Removal, disassembly, and reassembly | <ul style="list-style-type: none"> • Be sure to perform effective operations after fully confirming the fault symptom. • When the structure is complicated, write a note or make an assembly mark without affecting the function. • Clean the removed parts as needed, and reassemble them after inspection. |

Inspection procedures

1 Check the harness and connector of three-way water valve 1 for open circuit

HC



- (a) Set the ignition switch to "OFF"
- (b) Disconnect the negative terminal of the battery.
- (c) Disconnect the connector of the VCU.
- (d) Disconnect the three-way water valve 1 connector.
- (e) Measure the resistance according to the table below.

Standard value

| Detector connection | Detection condition | Specified status |
|---|---------------------|------------------|
| Three-way water valve 1 connector 2# – VCU connector B44# | Remain connected | < 1Ω |
| Three-way water valve 1 connector 1# – body ground | Remain connected | < 1Ω |

Abnormal → **Repair or replace the harness and connector**

Normal

Description

When the communication between the RWD electric drive system inverter (160KW) and other controllers is abnormal or interrupted, the RWD electric drive system inverter (160KW) will record the DTC.

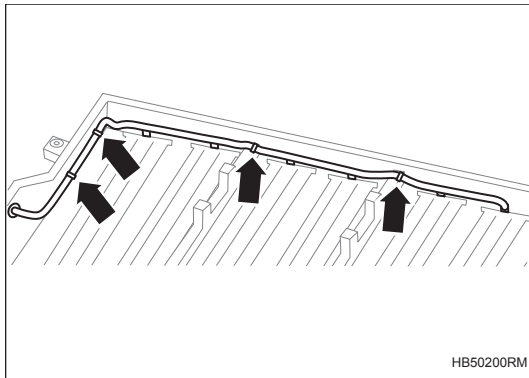
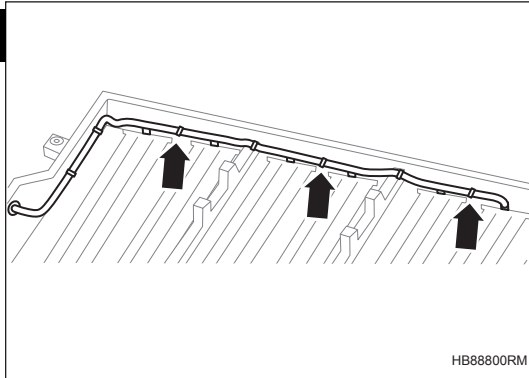
| DTC number | DTC detection conditions | Fault location |
|------------|---|---|
| U005588 | (a) The communication is abnormal or interrupted. | <ul style="list-style-type: none"> • Harness and connector • Related controller |
| U029387 | (a) The communication is abnormal or interrupted. | <ul style="list-style-type: none"> • Harness and connector • Related controller |
| U029887 | (a) The communication is abnormal or interrupted. | <ul style="list-style-type: none"> • Harness and connector • Related controller |
| U029A87 | (a) The communication is abnormal or interrupted. | <ul style="list-style-type: none"> • Harness and connector • Related controller |
| U014687 | (a) The communication is abnormal or interrupted. | <ul style="list-style-type: none"> • Harness and connector • Related controller |
| U112187 | (a) The communication is abnormal or interrupted. | <ul style="list-style-type: none"> • Harness and connector • Related controller |
| U115587 | (a) The communication is abnormal or interrupted. | <ul style="list-style-type: none"> • Harness and connector • Related controller |
| U114087 | (a) The communication is abnormal or interrupted. | <ul style="list-style-type: none"> • Harness and connector • Related controller |
| U115187 | (a) The communication is abnormal or interrupted. | <ul style="list-style-type: none"> • Harness and connector • Related controller |
| U041582 | (a) The communication is abnormal or interrupted. | <ul style="list-style-type: none"> • Harness and connector • Related controller |
| U041583 | (a) The communication is abnormal or interrupted. | <ul style="list-style-type: none"> • Harness and connector • Related controller |
| U059982 | (a) The communication is abnormal or interrupted. | <ul style="list-style-type: none"> • Harness and connector • Related controller |
| U059983 | (a) The communication is abnormal or interrupted. | <ul style="list-style-type: none"> • Harness and connector • Related controller |
| U059B82 | (a) The communication is abnormal or interrupted. | <ul style="list-style-type: none"> • Harness and connector • Related controller |
| U059B83 | (a) The communication is abnormal or interrupted. | <ul style="list-style-type: none"> • Harness and connector • Related controller |
| U045282 | (a) The communication is abnormal or interrupted. | <ul style="list-style-type: none"> • Harness and connector • Related controller |
| U045283 | (a) The communication is abnormal or interrupted. | <ul style="list-style-type: none"> • Harness and connector • Related controller |
| U059482 | (a) The communication is abnormal or interrupted. | <ul style="list-style-type: none"> • Harness and connector • Related controller |
| U059483 | (a) The communication is abnormal or interrupted. | <ul style="list-style-type: none"> • Harness and connector • Related controller |
| P1D2700 | (a) The communication is abnormal or interrupted. | <ul style="list-style-type: none"> • Harness and connector • Related controller |

6. Remove the high-voltage power battery module assembly. (PB-183)

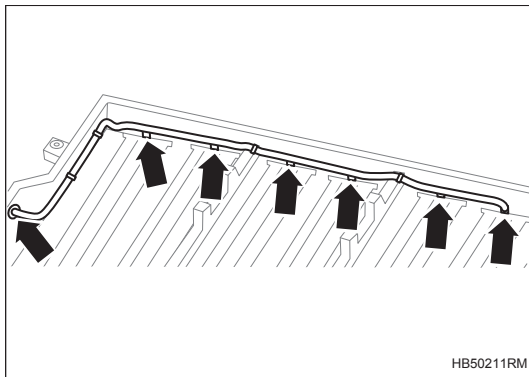
7. Remove the high-voltage power battery cooling water inlet pipe assembly (only for vehicles equipped with 160 KW RWD electric drive system)

(a) Remove 3 water pipe clamps fixed on the nuts of the liquid cooling plate fixing pins.

PB



(b) Remove 4 fixing clamps of high-voltage power battery cooling water inlet pipe assembly.

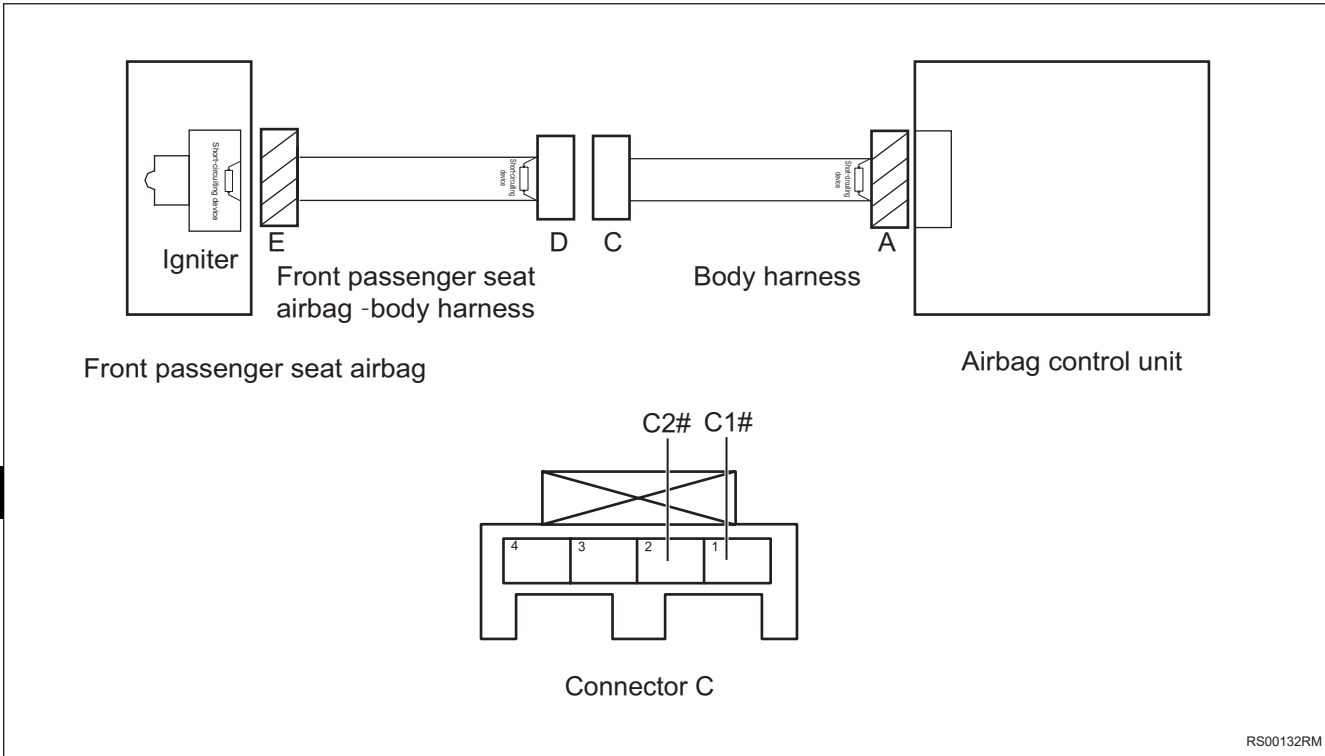


(c) Disconnect 7 connectors of high-voltage power battery cooling water inlet pipe assembly.

(d) Remove the high-voltage power battery cooling water inlet pipe assembly.

8. Remove the high-voltage power battery cooling water outlet pipe assembly (only for vehicles equipped with 160 KW RWD electric drive system)

5 Check the harness and connector of front passenger side airbag for short circuit to each other (body harness)



RS00132RM

RS

- (a) Set the ignition switch to "OFF"
- (b) Disconnect the negative terminal of the battery.
- (c) Disconnect the connector A and connector C.
- (d) Discharge the built-in short-circuiting device of the connector A.
- (e) Measure the resistance according to the values the table below.

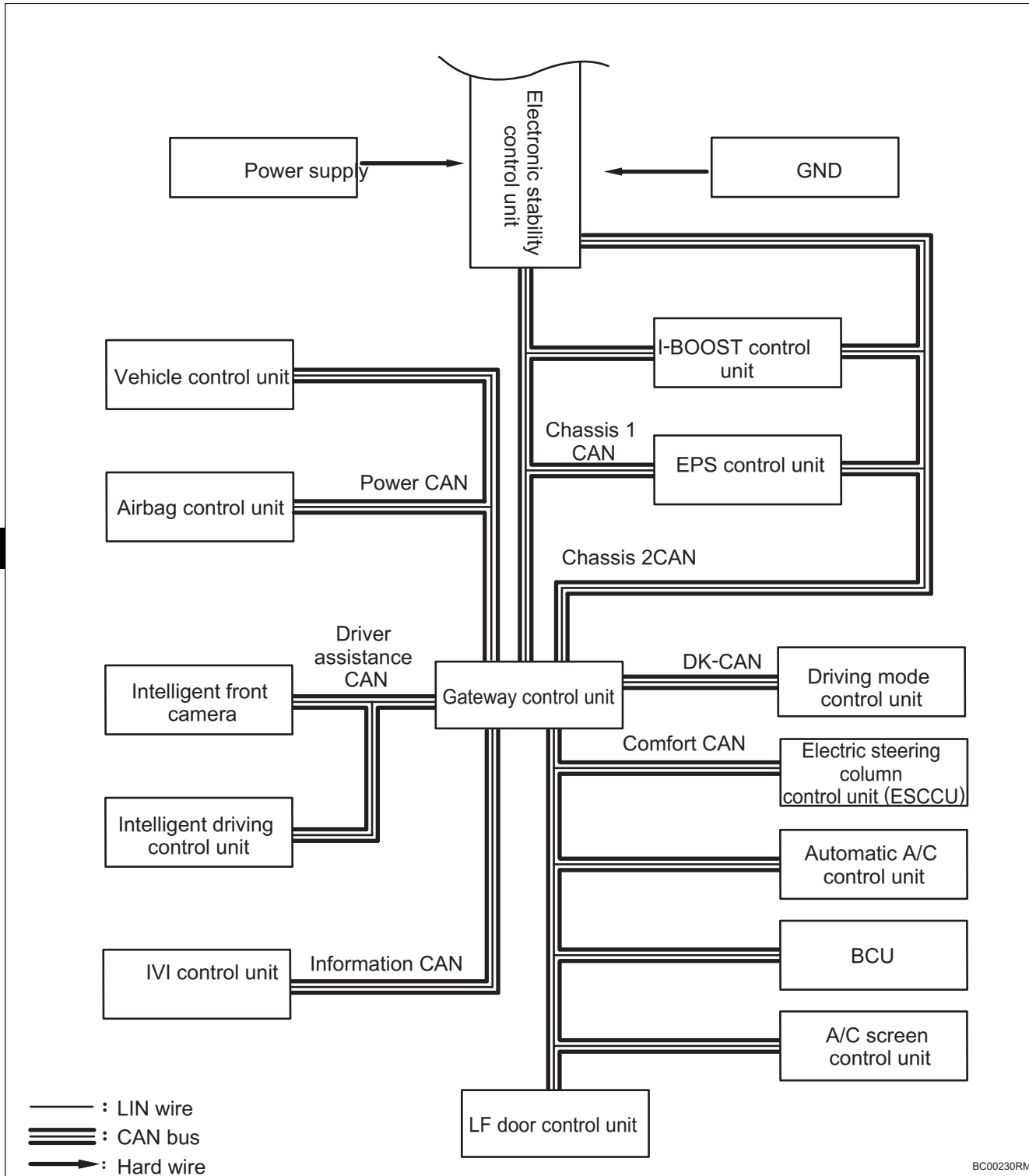
Standard value

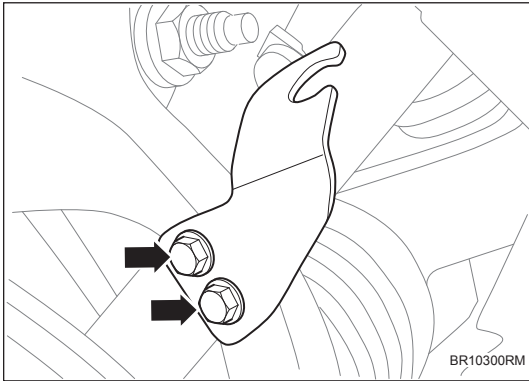
| Detector connection | Detection condition | Specified status |
|-------------------------------|---------------------|------------------|
| Connector C1# – connector C2# | Remain connected | ≥10 KΩ |

Abnormal **Repair or replace the harness and connector**

Normal

System diagram





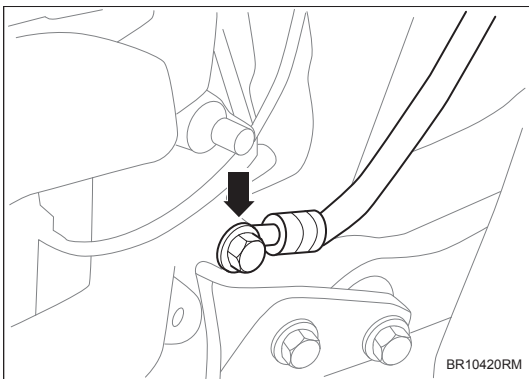
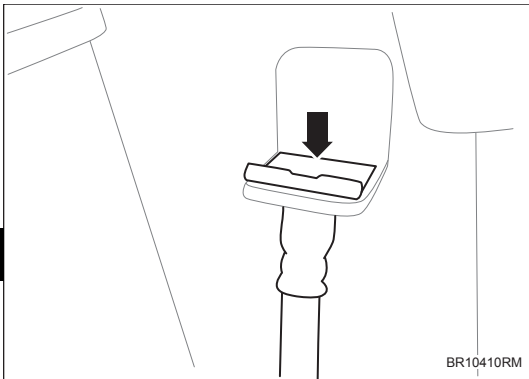
- (f) Remove 2 bolts to detach the front brake hose bracket.

21. Remove the rear brake hose assembly

Tip:

The removal sequence for the right side is the same as the left side.

- (a) Remove 1 clamping piece, and disengage the rear brake hose assembly.



- (b) Remove one bolt to detach the rear brake hose assembly.

Installation

1. Install the rear brake hose assembly

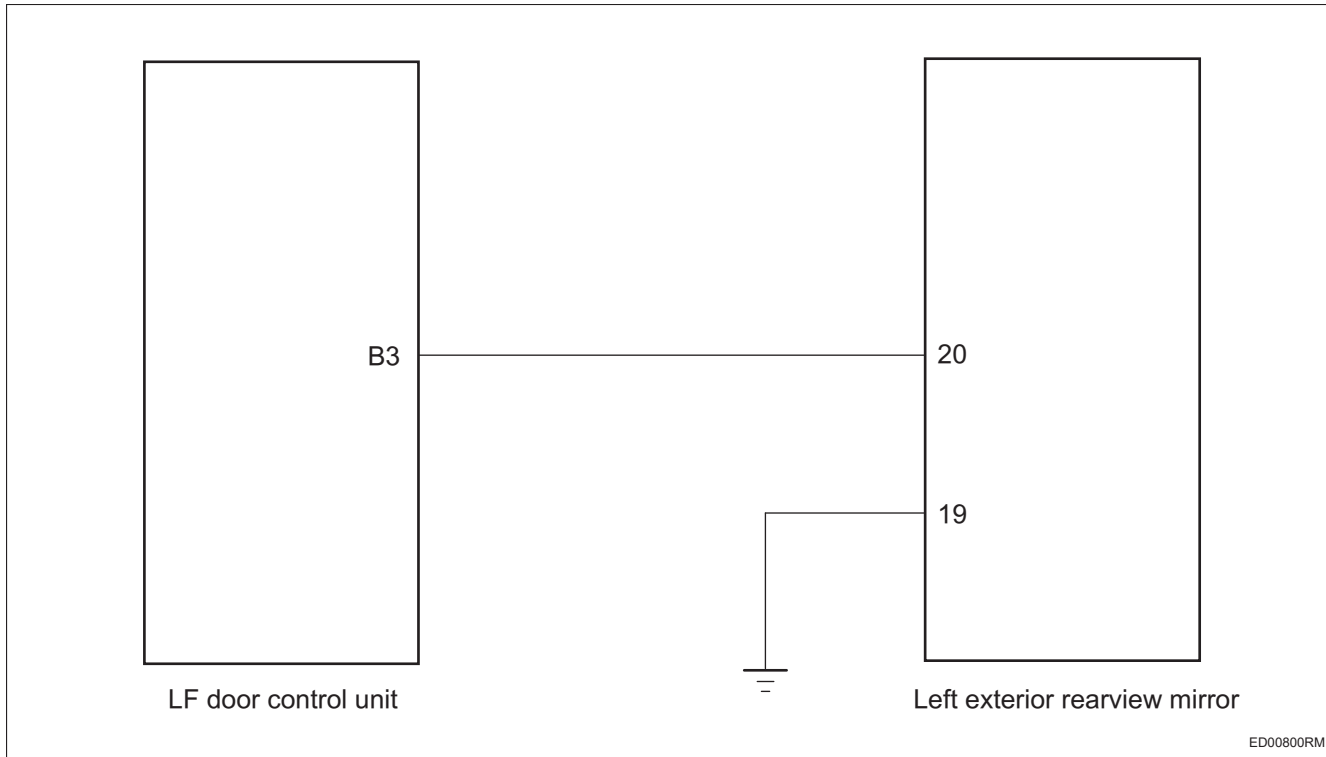
Tip:

The installation sequence for the right side is the same as the left side.

DTC table

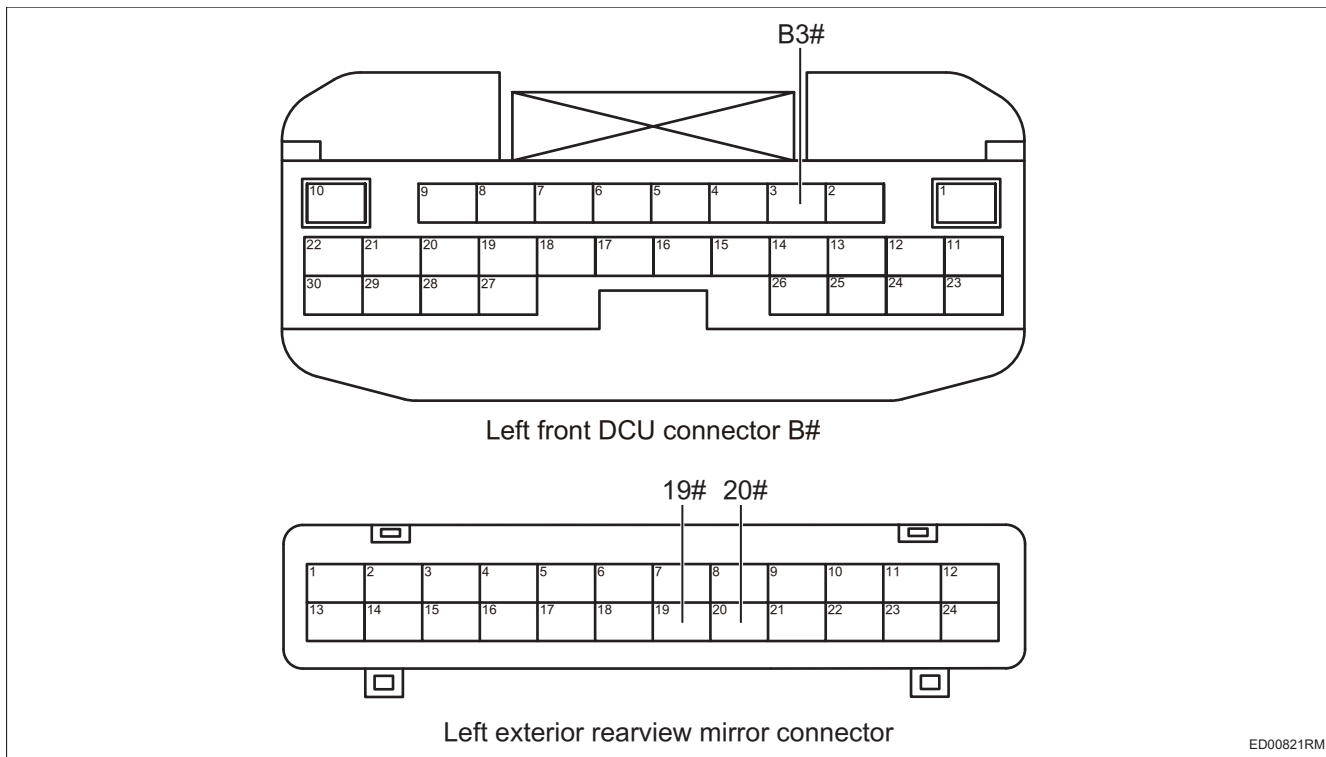
| DTC | Test items | Reference page number |
|------------|---|------------------------------|
| C120801 | Battery voltage too high | (AS-52) |
| C120901 | Battery voltage too low | (AS-52) |
| C121001 | Left front height sensor power supply failure | (AS-56) |
| C121101 | Right front height sensor power supply failure | (AS-61) |
| C121201 | Left rear height sensor power supply failure | (AS-66) |
| C121301 | Right rear height sensor power supply failure | (AS-71) |
| C121401 | Left front height sensor signal failure | (AS-56) |
| C121501 | Right front height sensor signal failure | (AS-61) |
| C121601 | Left rear height sensor signal failure | (AS-66) |
| C121701 | Right rear height sensor signal failure | (AS-71) |
| C121801 | Solenoid valve pressure sensor power supply failure | (AS-76) |
| C121901 | Solenoid valve pressure sensor signal failure | (AS-76) |
| C121A01 | Compressor temperature sensor power supply failure | (AS-24) |
| C121B01 | Compressor temperature sensor signal failure | (AS-24) |
| C125001 | Compressor relay failure | (AS-94) |
| C125101 | Solenoid valve failure - left front airbag | (AS-98) |
| C125201 | Solenoid valve failure - right front airbag | (AS-102) |
| C125301 | Solenoid valve failure - left rear airbag | (AS-106) |
| C125401 | Solenoid valve failure - right rear airbag | (AS-110) |
| C125B01 | Compressor boost valve fault | (AS-48) |
| C125501 | Compressor exhaust valve failure | (AS-114) |
| C125601 | Solenoid valve failure - air reservoir | (AS-118) |
| C121C01 | Acceleration sensor power supply failure | (AS-28) |
| C121D01 | Left front acceleration sensor signal failure | (AS-32) |
| C121E01 | Right front acceleration sensor signal failure | (AS-36) |
| C121F01 | Left rear acceleration sensor signal failure | (AS-40) |
| C125701 | Left front vibration damper solenoid valve failure | (AS-122) |
| C125801 | Right front vibration damper solenoid valve failure | (AS-126) |
| C125901 | Left rear vibration damper solenoid valve failure | (AS-130) |
| C125A01 | Right rear vibration damper solenoid valve failure | (AS-44) |
| U008188 | Digital key CAN bus off | (AS-135) |

Wiring diagram



Inspection procedures

- 1 Check the harness and connector of the left exterior rearview mirror for open circuit



Abnormal

Repair or replace the harness and connector

Normal

4 Replace the left rear door handle induction switch (DL-19)

- (a) Replace the left rear door handle induction switch.
- (b) Connect the HQ-VDS scan tool.
- (c) Clear the DTC.
- (d) Re-read the DTC.

Standard:

No DTC output.

Abnormal

Replace the left rear door control unit.
(ED-203)

Normal

End of diagnosis

ED

| | | |
|------------|----------------|---|
| DTC | B118B18 | The output current from the left rear door self-priming lock motor is too low |
| DTC | B118B19 | The output current from the left rear door self-priming lock motor is too high |

Description

When the output current of the left rear door lock (electric priming) motor is out of the normal range, the left rear DCU will record the DTC.

| DTC number | DTC detection conditions | Fault location |
|------------|--|---|
| B118B18 | (a) The output current from the left rear door self-priming lock motor is too low. | <ul style="list-style-type: none"> • LR door control unit • Harness and connector • Left rear door lock (electric suction) |

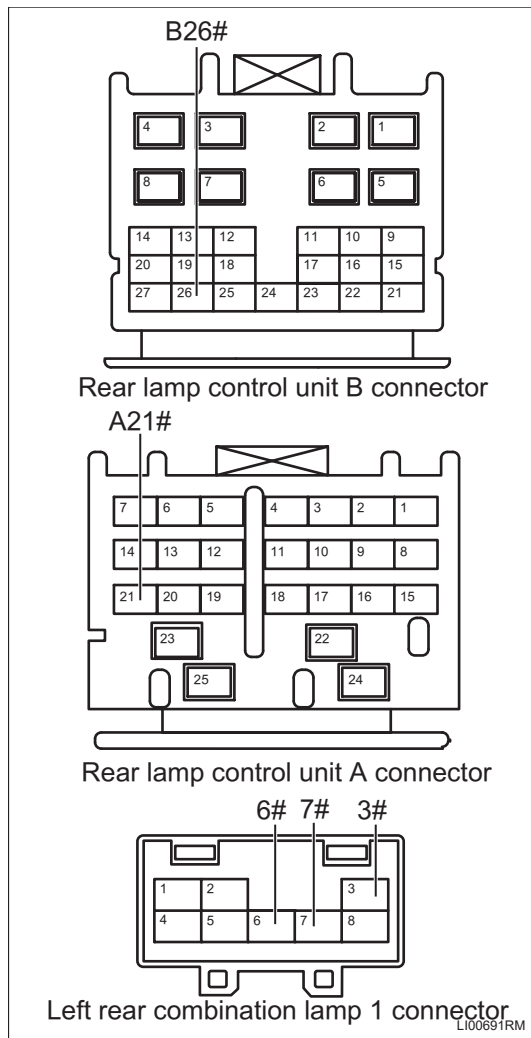
| DTC Number | DTC detection conditions | Fault location |
|------------|---|--|
| U025287 | (a) The node of the right front seat massage air pump is missing. | <ul style="list-style-type: none"> • Front passenger seat lumbar support adjustment motor • Harness and connector • Seat climate controller |
| U024987 | (a) The node of the left front seat backrest ventilation fan is missing. | <ul style="list-style-type: none"> • Seat ventilation motor • Harness and connector • Seat climate controller |
| U024A87 | (a) The node of the left front seat cushion ventilation fan is missing. | <ul style="list-style-type: none"> • Seat ventilation motor • Harness and connector • Seat climate controller |
| U024B87 | (a) The node of the right front seat backrest ventilation fan is missing. | <ul style="list-style-type: none"> • Seat ventilation motor • Harness and connector • Seat climate controller |
| U024C87 | (a) The node of the right front seat cushion ventilation fan is missing. | <ul style="list-style-type: none"> • Seat ventilation motor • Harness and connector • Seat climate controller |
| U024D87 | (a) The node of the left rear seat backrest ventilation fan is missing. | <ul style="list-style-type: none"> • Seat ventilation motor • Harness and connector • Seat climate controller |
| U024E87 | (a) The node of the left rear seat cushion ventilation fan is missing. | <ul style="list-style-type: none"> • Seat ventilation motor • Harness and connector • Seat climate controller |
| U024F87 | (a) The node of the right rear seat backrest ventilation fan is missing. | <ul style="list-style-type: none"> • Seat ventilation motor • Harness and connector • Seat climate controller |
| U025087 | (a) The node of the right rear seat cushion ventilation fan is missing. | <ul style="list-style-type: none"> • Seat ventilation motor • Harness and connector • Seat climate controller |
| U034086 | (a) The left front massage air pump is faulty. | <ul style="list-style-type: none"> • Driver seat lumbar support adjustment motor • Harness and connector • Seat climate controller |
| U034186 | (a) The right front massage air pump is faulty. | <ul style="list-style-type: none"> • Front passenger seat lumbar support adjustment motor • Harness and connector • Seat climate controller |
| U035986 | (a) The left front seat fan is faulty. | <ul style="list-style-type: none"> • Seat ventilation motor • Harness and connector • Seat climate controller |
| U035A86 | (a) The right front seat fan is faulty. | <ul style="list-style-type: none"> • Seat ventilation motor • Harness and connector • Seat climate controller |
| U035B86 | (a) The left rear seat fan is faulty. | <ul style="list-style-type: none"> • Seat ventilation motor • Harness and connector • Seat climate controller |
| U035C86 | (a) The right rear seat fan is faulty. | <ul style="list-style-type: none"> • Seat ventilation motor • Harness and connector • Seat climate controller |

Abnormal

Repair according to the fault

Normal

2 Check the harness and connector of left rear combination lamp 1 for open circuit



- Set the ignition switch to "OFF"
- Disconnect the negative terminal of the battery.
- Disconnect the connector of the rear lighting control unit.
- Disconnect the left rear combination lamp 1 connector.
- Measure the resistance according to the values the table below.

Standard value

| Detector connection | Detection condition | Specified status |
|---|---------------------|------------------|
| Rear lighting control unit connector B26# - left rear combination lamp 1 connector 6# | Remain connected | < 1Ω |
| Rear lighting control unit connector A21# - left rear combination lamp 1 connector 3# | Remain connected | < 1Ω |
| Left rear combination lamp 1 connector 7# - body ground | Remain connected | < 1Ω |

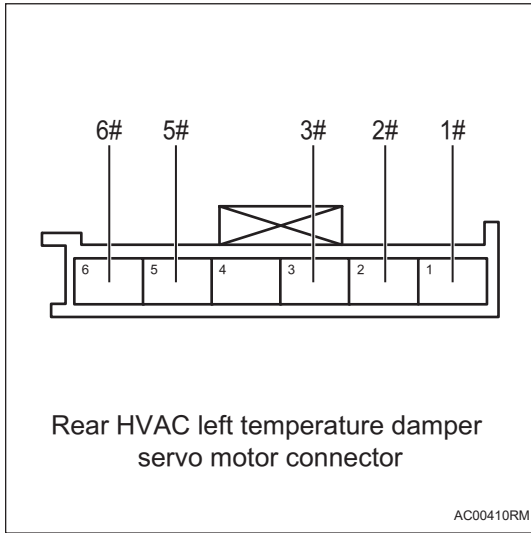
Abnormal

Repair or replace the harness and connector

LI

Normal

3 Check the harness and connector of rear HVAC left temperature damper servo motor for short circuit to power supply



- (a) Connect the negative terminal of the battery.
- (b) Set the ignition switch to "ON" .
- (c) Measure the voltage according to the table below.

Standard value

| Detector connection | Detection condition | Specified status |
|--|-----------------------------------|------------------|
| Rear HVAC left temperature damper servo motor harness connector 1# – body ground | Turn the ignition switch to "ON". | <1 V |
| Rear HVAC left temperature damper servo motor harness connector 2# – body ground | Turn the ignition switch to "ON". | <1 V |
| Rear HVAC left temperature damper servo motor harness connector 3# – body ground | Turn the ignition switch to "ON". | <1 V |
| Rear HVAC left temperature damper servo motor harness connector 5# – body ground | Turn the ignition switch to "ON". | <1 V |
| Rear HVAC left temperature damper servo motor harness connector 6# – body ground | Turn the ignition switch to "ON". | <1 V |

Abnormal → **Repair or replace the harness and connector**

Normal

4 Replace rear HVAC left temperature damper servo motor

AC

- (a) Replace rear HVAC left temperature damper servo motor.
- (b) Connect the HQ-VDS scan tool.
- (c) Clear the DTC.
- (d) Re-read the DTC.

Standard:

No DTC output.

Installation

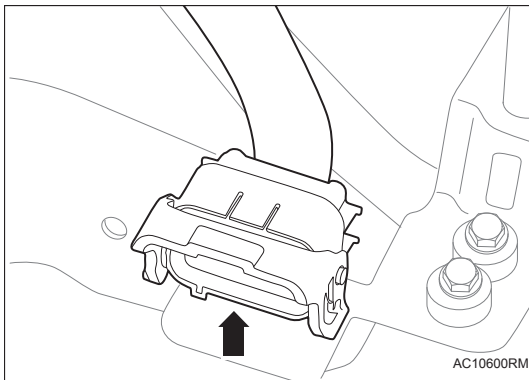
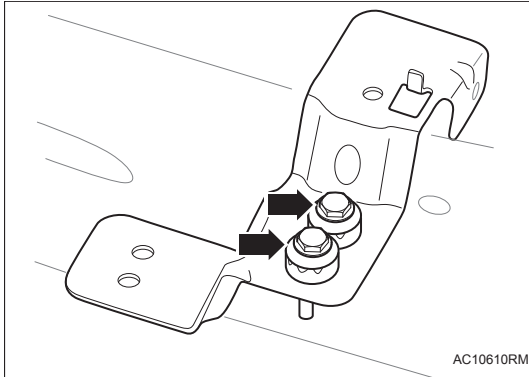
1. Install the HP hose assembly from condenser to electronic expansion valve (cooling)

Tip:

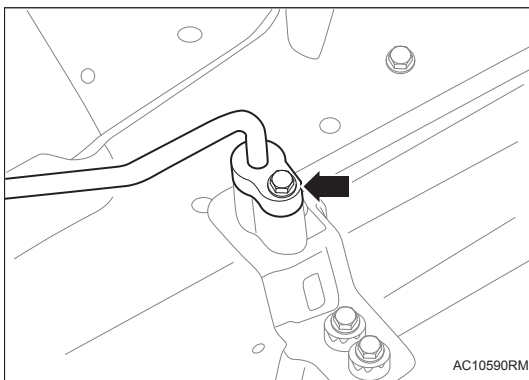
Fully apply compressor oil (ND-OIL 11) to the new O-ring and assembly surface. Do not use other oil products to avoid the decline of insulation of electric compressor caused by oil mixing.

(a) Install the pipeline bracket III assembly with 2 bolts.

Torque: 8-12N•m

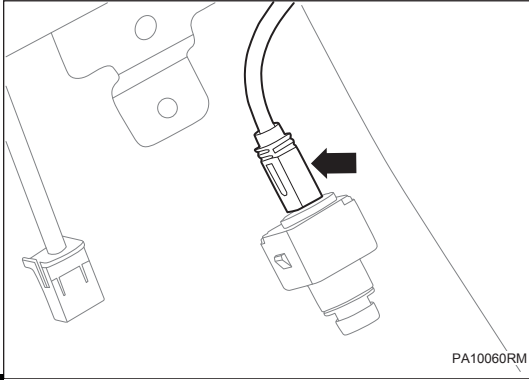


(b) Install the harness connector retaining clip.

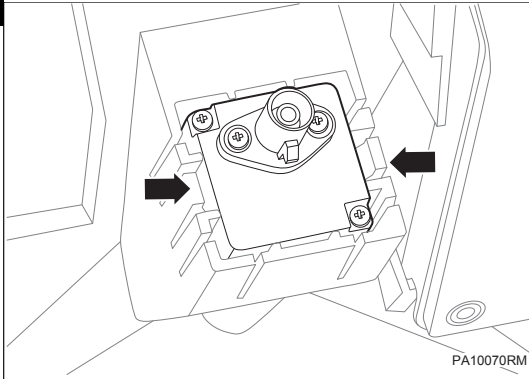


(c) Install the HP hose line assembly from the condenser to the electronic expansion valve (cooling) with one bolt.

Torque: 4-6N•m



- (a) Disconnect the front camera assembly harness connector.



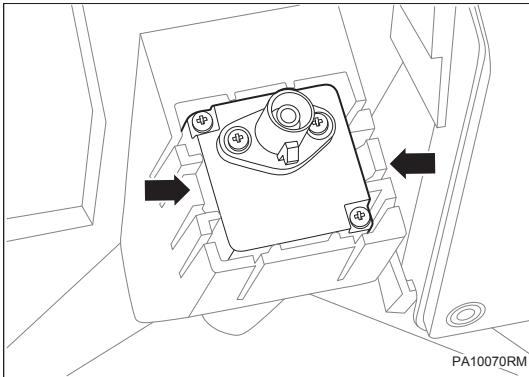
- (b) Disengage 2 claws, and remove the FVC assembly.

PA

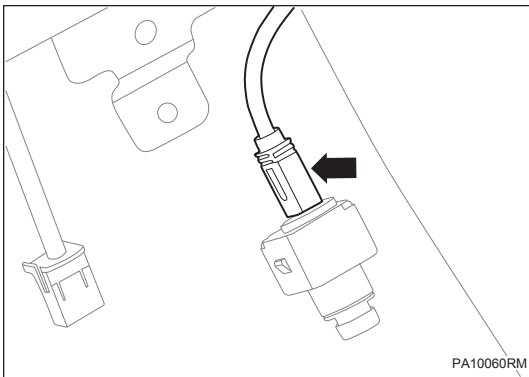
Installation

1. Install the FVC assembly.

- (a) Install the FVC assembly with 2 claws.



- (b) Connect the front camera assembly harness connector.



2. Install the trim cover of the rain sensor. (CC-27)