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## Model overview

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## 1.3 Lift the vehicle

### 1.3.1 Instructions and operations

#### 1.3.1.1 Lifting and jacking of vehicle

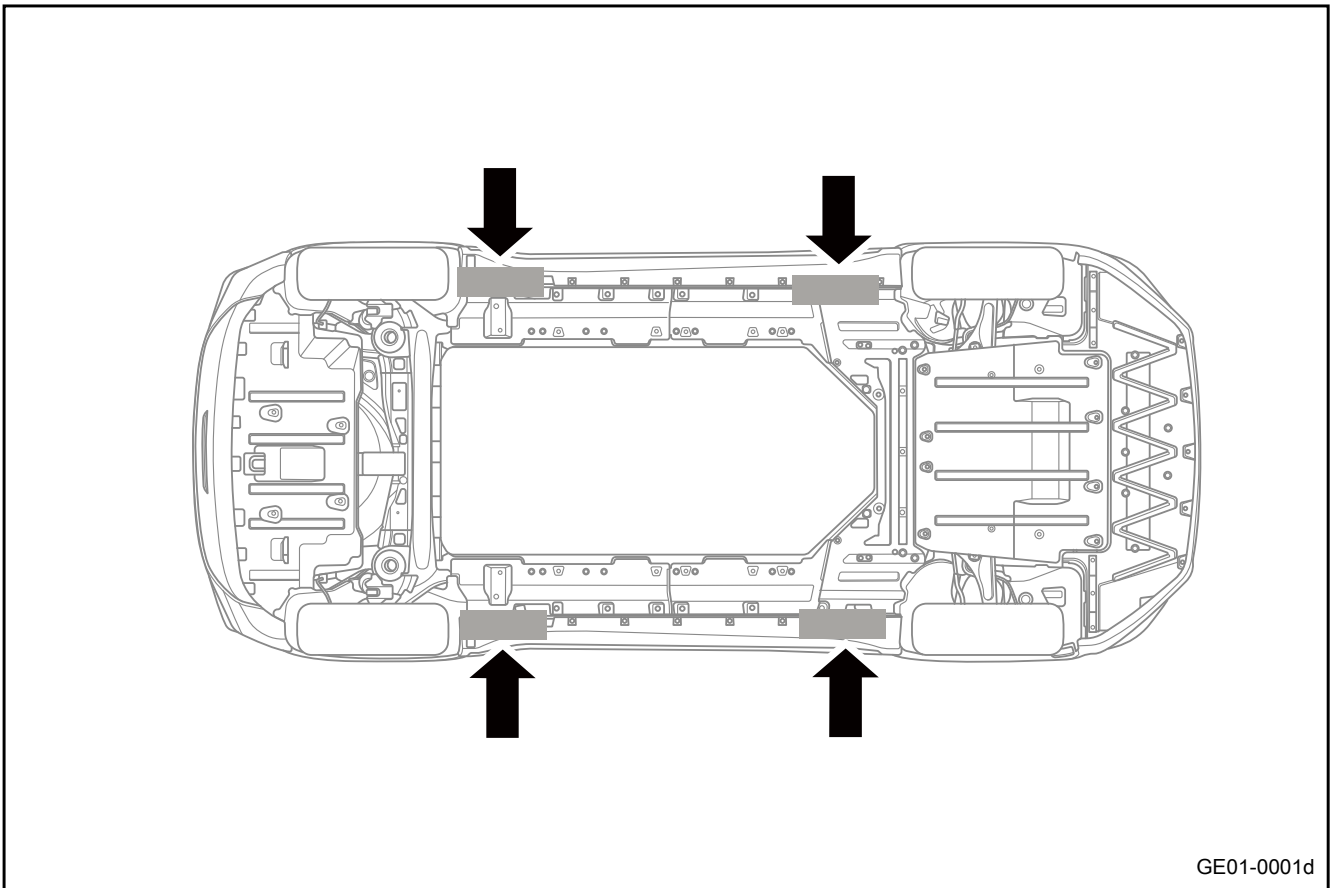
##### Warning

Refer to “Warnings about vehicle lifting” in “Warnings and notices”. To avoid personal injury, use the jack pad when performing any operation on or under a vehicle supported by a jack only.

##### Caution

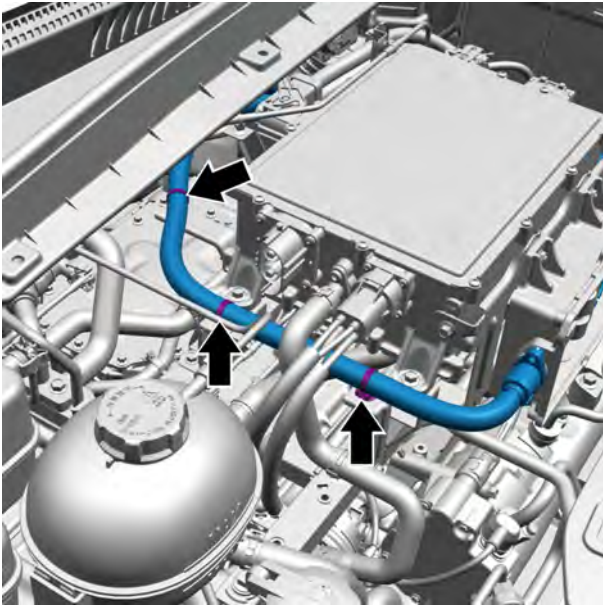
When you lift the vehicle on the frame side rails or other designated lifting points, make sure that the jack pads do not touch the brake hose or high-voltage wires. If the above-mentioned parts are touched, it will cause damage to the vehicle or deterioration of vehicle performance. Before starting any lifting procedures, make sure that the vehicle is on a clean, hard, and level surface. Ensure that all lifting devices meet the weight standard and are in good working status. Ensure that all vehicle loads are evenly distributed and stationary. If the vehicle is supported only from the frame rails, make sure that the lifting device does not exert excessive force on the frame rails or damage the frame rails.

Vehicle lifting point

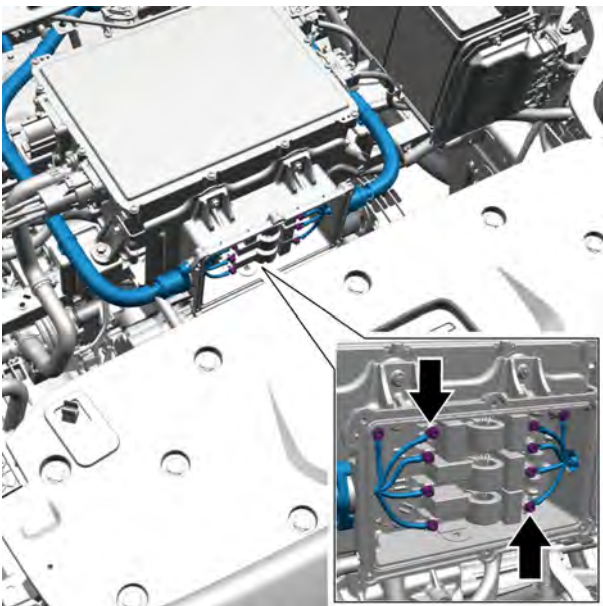


GE01-0001d

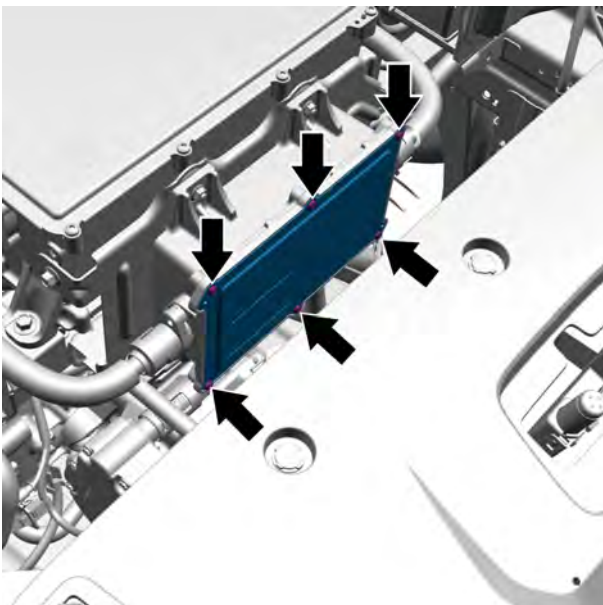
DTC No.	DTC triggering conditions	DTC detecting conditions (control strategy)	Trouble location
P152216	$V_{min} \leq 2.85V (T_{min} > 10^{\circ}C)$ $V_{min} \leq 2.55V (0^{\circ}C < T_{min} \leq 10^{\circ}C)$ $V_{min} \leq 2.15V (-20^{\circ}C < T_{min} \leq 0^{\circ}C)$ $V_{min} \leq 2.05V (T_{min} \leq -20^{\circ}C)$	1. BMS has been powered on 2. CSC cell voltage monitoring function works normally 3. The CSC-CAN bus between BMU and CSCs works normally 4. Maximum and minimum cell voltages are valid	1. BMS
P157017	$V_{max} \geq 4.31V$		
P157016	$V_{min} \leq 2.8V (T_{min} > 0^{\circ}C)$ $V_{min} \leq 2.5V (0^{\circ}C < T_{min} \leq 10^{\circ}C)$ $V_{min} \leq 2.1V (-20^{\circ}C < T_{min} \leq 0^{\circ}C)$ $V_{min} \leq 2.0V (T_{min} \leq -20^{\circ}C)$		
P152409	1. Invalid flag bit of current message or out of the detection range [-1500, +1500]A, and the flag bit lasts for 2s 2. Current sensor reports the ErrorIndication fault		
P152617	$U_{sum} \geq 438.6V$		
P152616	$U_{sum} \leq 285.6V (T_{min} \geq 0^{\circ}C)$ $U_{sum} \leq 255V (T_{min} < 0^{\circ}C)$		
P152901	BMU reads CMC equalization circuit fault flag or equalization temperature is invalid		
P152917	$\Delta(SOC_{Max} - SOC_{Min}) \geq 30\%$		
P152B21	The lowest battery temperature is less than $20^{\circ}C$ and the duration is greater than or equal to 4s		
P152B98	The highest battery temperature is greater than $50^{\circ}C$ and the duration is greater than or equal to 4s		
P152C98	The highest battery temperature is greater than $53^{\circ}C$ and the duration is greater than or equal to 4s		



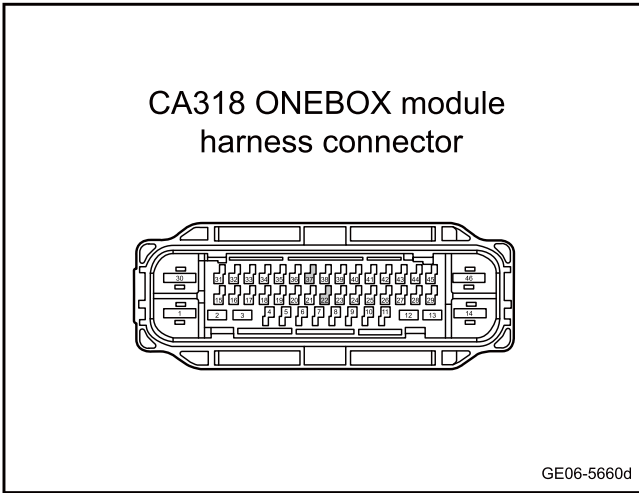
- 32 Install the 3 fixing clips connecting the combined charging socket wire harness assembly and high voltage protective bracket.



- 33 Install the 10 fixing bolts connecting the combined charging socket wire harness assembly and the filter.



- 34 Install and fasten 6 fixing bolts connecting filter cover and filter.



- A. Multimedia settings from vehicle power supply to OFF.
- B. Disconnect the ONE BOX harness connector CA318.
- C. Disconnect the harness connector SO86 of RR speed sensor
- D. The key activates the power supply of the vehicle to ON.
- E. Use a multimeter to measure each terminal according to the table below:

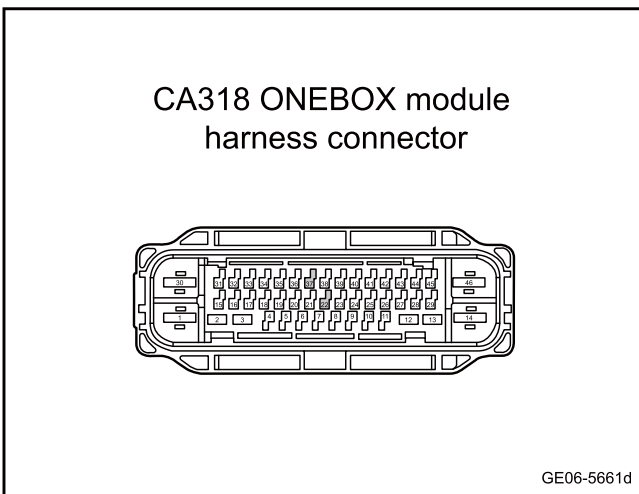
Measure terminal 1	Measure terminal 2	Standard value
CA318(37)	Vehicle body is grounded.	Standard voltage: 0V
CA318(22)		

- F. Confirm whether the measured value meets the standard.

No Repair or replace the harness.

Yes

**Step 5** | Check whether the circuit between ONE BOX and the RR speed sensor is shorted to GND.



- A. Multimedia settings from vehicle power supply to OFF.
- B. Disconnect the ONE BOX harness connector CA318.
- C. Disconnect the harness connector SO86 of RR speed sensor
- D. Use a multimeter to measure each terminal according to the table below:

Measure terminal 1	Measure terminal 2	Standard value
CA318(37)	Vehicle body is grounded.	Standard resistance: 10KΩ or higher
CA318(22)		

- E. Confirm whether the measured value meets the standard.

No Repair or replace the harness.

Yes

**Step 6** | Replace the RR speed sensor

- A. Replace the RR speed sensor Refer to [Replacement of Right Rear Wheel Speed Sensor](#)
- B. Confirm whether the system is normal.

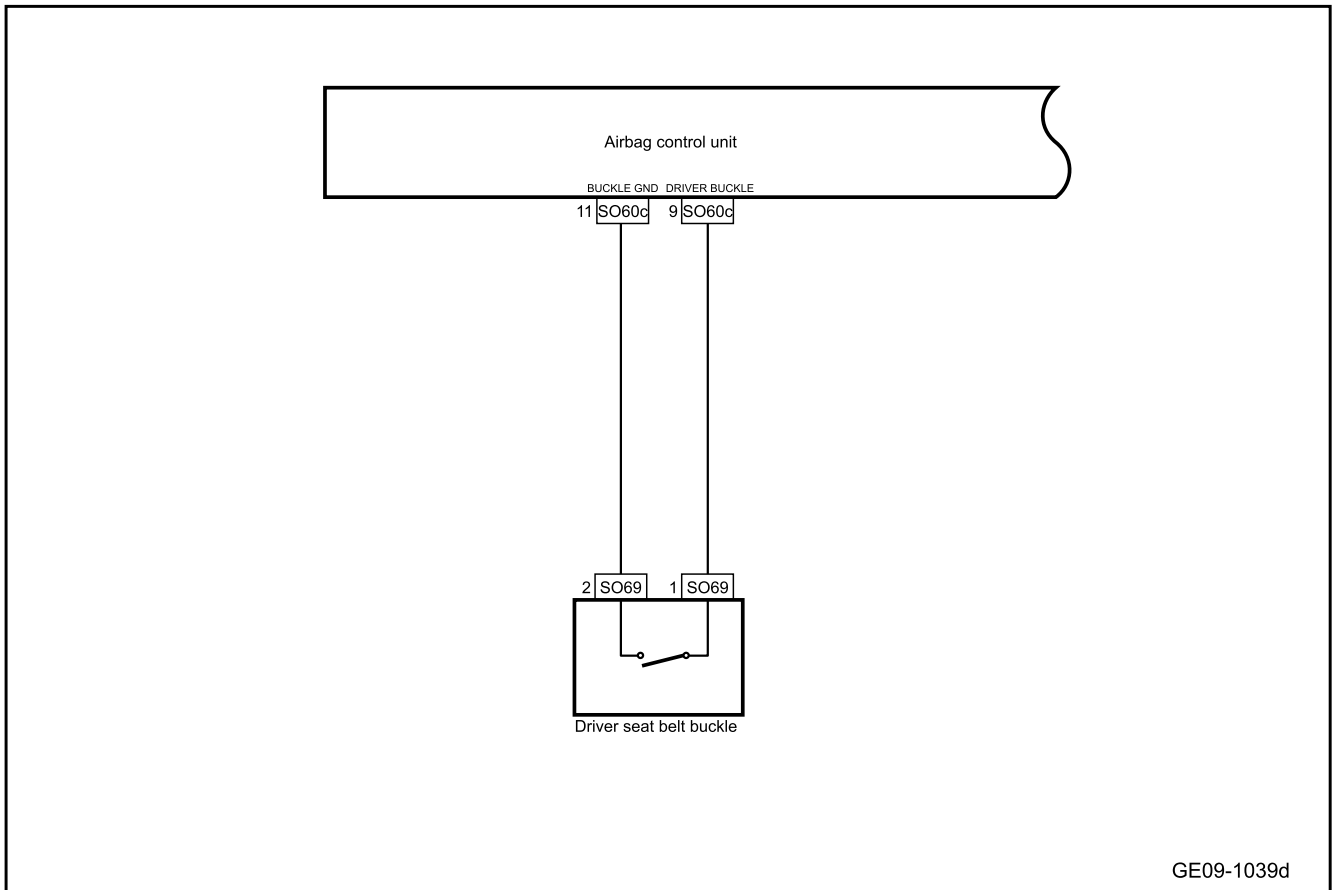
Yes Trouble is removed.

Diagnostic Trouble Code	Description
B11AA12	Short circuit of water valve 2 coil
B11AA13	Open circuit of water valve 2 coil
B11AA16	Water valve 2 undervoltage
B11AA17	Water valve 2 overvoltage
B11AA97	Water valve 2 is shutdown due to over temperature
B11AA98	Water valve 2 over temperature alarm

## 2. Trouble code setting and trouble locations:

DTC No.	DTC triggering conditions	DTC detecting conditions (control strategy)	Trouble location
B11AA12	AC received the water valve 2 fault signal as "open circuit" for 2s (ID: 0x0A, 0.1-0.3= 1)	1. The power supply voltage is in the effective range 2. AC power relay ON	1. Battery 2. Circuit 3. Fuse 4. Thermal management control module 5. Refrigerant tube solenoid valve
B11AA13	AC received the water valve 2 fault signal as "open circuit" for 2s (ID: 0x0A, 0.1-0.3=2)		
B11AA16	AC received the water valve 2 fault signal as "under voltage" for 2s (ID: 0x0A, 0.6-0.7= 2)		
B11AA17	AC received the water valve 2 fault signal as "over voltage" for 2s (ID: 0x0A, 0.6-0.7=1)		
B11AA97	AC receives the fault signal fed back from water valve 2 for 2 s as "over temperature shut off" (ID: 0x0A 0.1-0.3=3)		
B11AA98	AC received the fault signal fed back from water valve 2 for 2 s as "over temperature alarm" (ID: 0x0A 0.4 0.5 1)		

## 3. Schematic circuit diagram:



4. Diagnosis steps

**Caution**

Before performing these steps, observe the data list of the diagnostic scanner and analyze the accuracy of each data, which helps to quickly remove the trouble!

Step 1	Use diagnostic scanner to read the trouble code.
--------	--------------------------------------------------

- A. Connect the diagnostic scanner to the DLC.
- B. The key activates the power supply of the vehicle to ON.
- C. Road test for at least 10min.
- D. Read the trouble code of the control system to confirm whether the system has output a DTC.

No

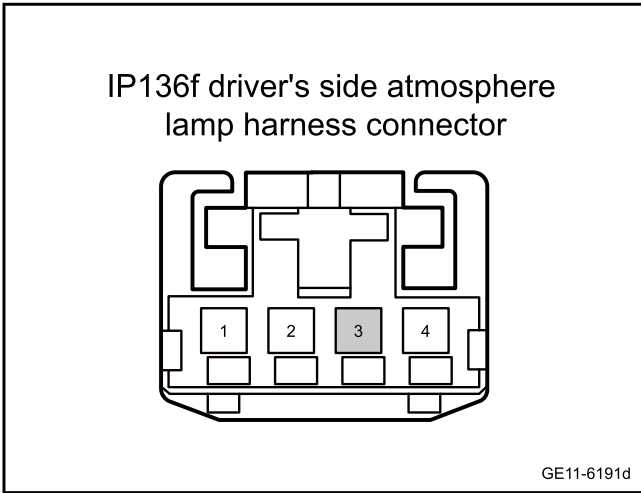
Refer to [Intermittent Fault Detection](#)

Yes

Step 2	Primary check.
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DTC	DTC triggering conditions	DTC detecting conditions (control strategy)	Trouble location
P1C6B16	Wait for DCDC is disabled, the BMS exits the AC, DC charge, normal discharge, V2G or for IPU to exit the standby, fault or TqCtrl for more than 5s during charging fast powering on at a high voltage.	Wait for DCDC is disabled, the BMS exits the AC, DC charge, the normal discharge, V2G or for IPU to exit the standby, fault or TqCtrl for more than 5s during charging fast powering on at a high voltage.	
P1C6B17	DCDC is not enabled in smart electricity supplementing mode at high voltage, BMS exits AC, DCcharge, normaldischarge, V2G or IPU exits standby, fault, TqCtrl for more than 5S	DCDC is not enabled in smart electricity supplementing mode at high voltage, BMS exits AC, DCcharge, normaldischarge, V2G or IPU exits standby, fault, TqCtrl for more than 5S	
P1C6B18	Wait for DCDC is disabled, the BMS exits the AC, DC charge, the normal discharge, V2G or for IPU to exit the standby, fault or TqCtrl for more than 5s during external discharging of fast powering on at a high voltage.	Wait for DCDC is disabled, the BMS exits the AC, DC charge, the normal discharge, V2G or for IPU to exit the standby, fault or TqCtrl for more than 5s during external discharging of fast powering on at a high voltage.	
P1C6B19	DCDC is not enabled under high voltage in remote A/C mode, BMS exits AC, DCcharge, normaldischarge, V2G or IPU exits standby, fault, TqCtrl for more than 5S	DCDC is not enabled under high voltage in remote A/C mode, BMS exits AC, DCcharge, normaldischarge, V2G or IPU exits standby, fault, TqCtrl for more than 5S	
P1C6C01	The feedback signal is different from the output signal for 500 ms.	1. CAN bus power supply voltage is within the range of 9-16V 2. IG is turned on or within 15 minutes after IG is turned on->IG is turned off	
P1C6C02	Over travel error flag remains true	Over travel error flag changes from false to true.	
P1C6C03	Module error flag remains true	Module error flag changes from false to true	



- A. Multimedia settings from vehicle power supply to OFF.
- B. Disconnect the driver side ambient lamp harness connector IP136f.
- C. Use a multimeter to measure each terminal according to the table below:

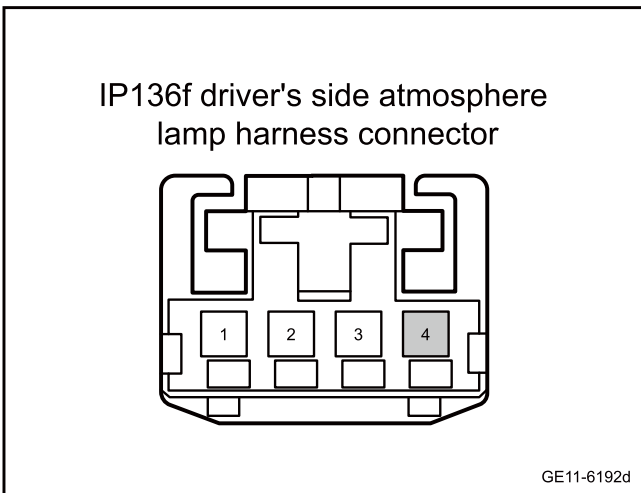
Measure terminal 1	Measure terminal 2	Standard value
IP136f(3)	Vehicle body is grounded.	Standard resistance: less than 1Ω

- D. Confirm whether the measured value meets the standard.

No Repair or replace the harness.

Yes

**Step 5** | Check whether the circuit between head unit and the driver side ambient lamp is open.

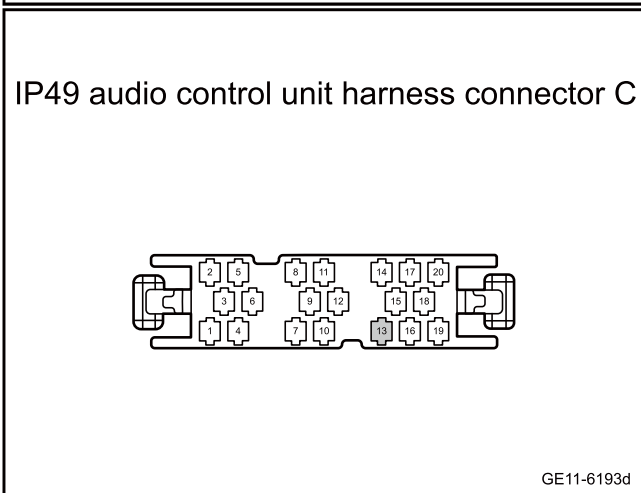


- A. Multimedia settings from vehicle power supply to OFF.
- B. Disconnect the head unit harness connector IP49.
- C. Disconnect the driver side ambient lamp harness connector IP136f.
- D. Use a multimeter to measure each terminal according to the table below:

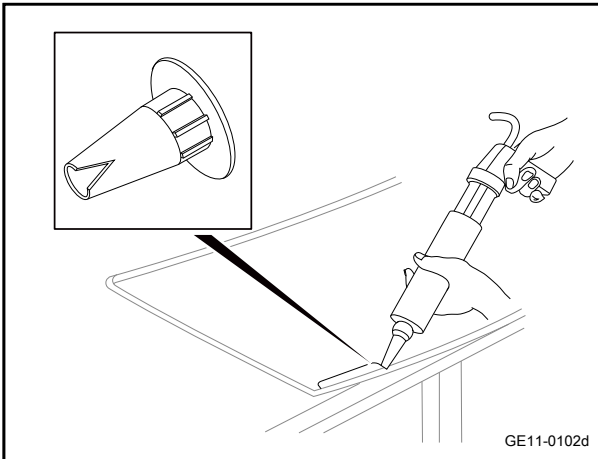
Measure terminal 1	Measure terminal 2	Standard value
IP136f(4)	IP49(13)	Standard resistance: less than 1Ω

- E. Confirm whether the measured value meets the standard.

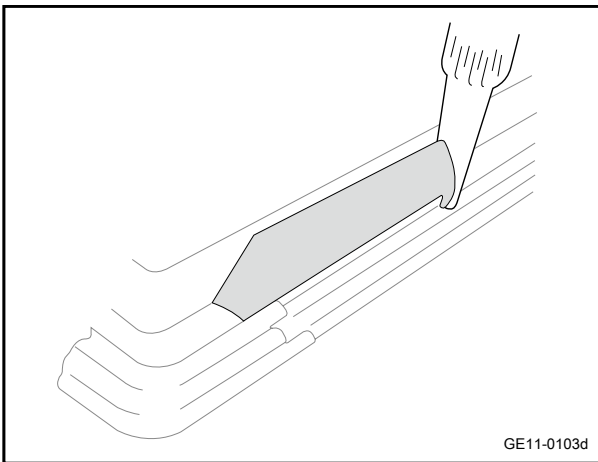
No Repair or replace the harness.



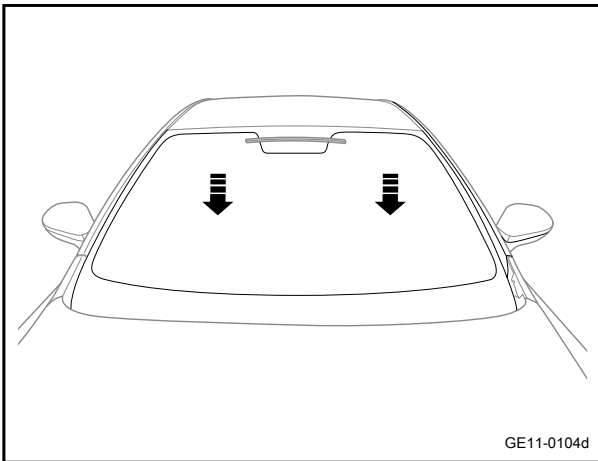
Yes



- 1 Cut the Geely dedicated glass sealant nozzle to make the flange edge of the sprayed glass glue reach 8mm (0.3in) wide and 8mm (0.3in) high.



- 2 Use an extension-type filling gun to evenly and continuously paint the flange edge of glass sealants to ensure even width of this glue.



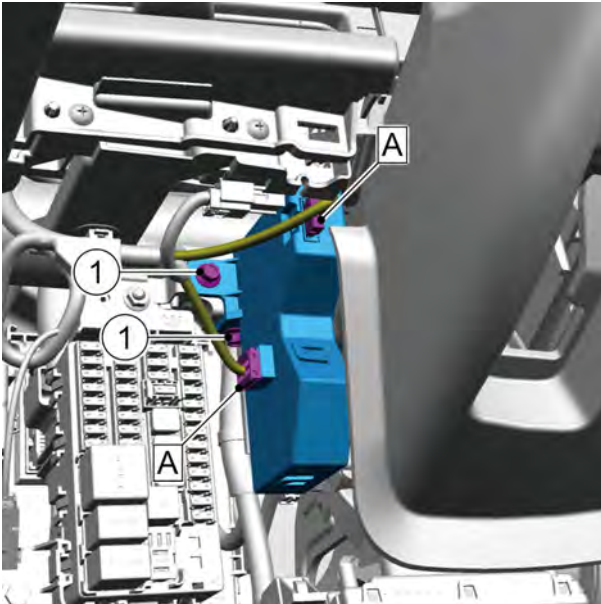
- 3 With the help of an assistant, use the suction cup to install the front windshield into the front windshield frame.

#### Caution

Ensure safety when performing this step. Two persons are required to perform this step.

- 4 Press the windshield, and then stick the tape on the sealing strips, front windshield and the front windshield frame to fix the front windshield.
- 5 Let the adhesive dry for over 24h.
- 6 Run water on the front windshield to check for leaks. If water leaks, dry the front windshield glass and plug the leak with adhesive. If the water is still leaking, remove the front windshield glass and repeat the entire repair procedure.
- 7 Install the exterior rearview mirror assembly.
- 8 Install the forward monocular camera.
- 9 Install the left and right A-pillar upper trim panel assembly.
- 10 Install the ventilation cover assembly.

- 1 Disconnect the negative cable of battery. Refer to [Procedures for Disconnecting and Connecting Battery Cable](#)
- 2 Remove the left lower shield assembly of the dashboard. Refer to [Replacement of Left Lower Shield Assembly of Dashboard](#)
- 3 Disconnect the 2 harness connectors A connecting the instrument harness with the instrument cluster controller assembly.
- 4 Remove the 2 fixing bolts 1 connecting the instrument cluster controller assembly with the cross member of the instrument panel.
- 5 Take off the instrument cluster controller assembly.

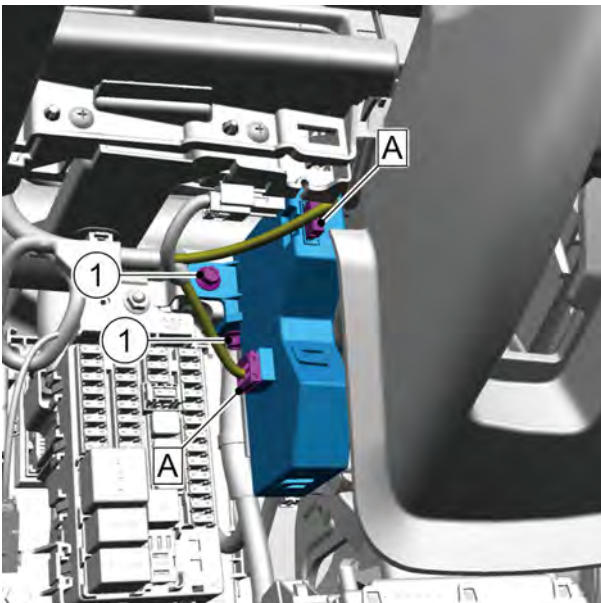


Installation procedure

- 1 Move the instrument cluster controller to the installation position.
- 2 Install the 2 fixing bolts 1 connecting the instrument cluster controller with the cross member of the instrument panel.
- 3 Connect the 2 harness connectors A of the instrument harness and instrument cluster controller assembly.

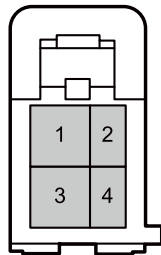
**Caution**

Firmly plug in harness in the principle of “first plug, second sounds and third confirmations”.



- 4 Install the left lower shield assembly of the dashboard.
- 5 Connect the negative cable of battery.

SO142a driver seat level motor harness connector



GE11-5985d

- A. Multimedia settings from vehicle power supply to OFF.
- B. Disconnect the harness connector SO142a of driver seat horizontal motor.
- C. Disconnect the seat module harness connector SO92.
- D. The key activates the power supply of the vehicle to ON.
- E. Use a multimeter to measure the terminals according to the table below:

Measure terminal 1	Measure terminal 2	Standard value
SO142a(1)	Vehicle body is grounded.	Standard voltage: 0V
SO142a(2)		
SO142a(3)		
SO142a(4)		

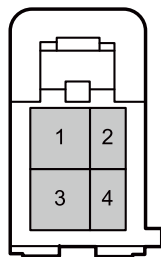
- F. Confirm whether the measured value meets the standard.

No Repair or replace the harness.

Yes

Step 5 | Check whether the harness between the driver seat horizontal motor and seat module is short to GND.

SO142a driver seat level motor harness connector



GE11-5986d

- A. Multimedia settings from vehicle power supply to OFF.
- B. Disconnect the harness connector SO142a of driver seat horizontal motor.
- C. Disconnect the seat module harness connector SO92.
- D. Use a multimeter to measure the terminals according to the table below:

Measure terminal 1	Measure terminal 2	Standard value
SO142a(1)	Vehicle body is grounded.	Standard resistance: 10KΩ or higher
SO142a(2)		
SO142a(3)		
SO142a(4)		

- E. Confirm whether the measured value meets the standard.

No Repair or replace the harness.

Yes

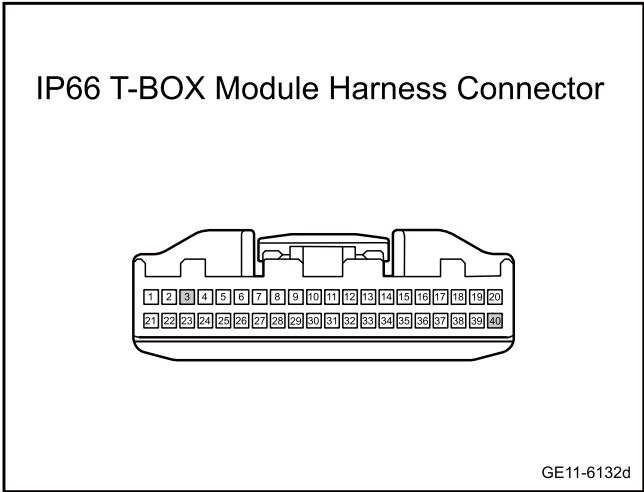
Step 6 | Check whether the harness between driver seat outside adjustment switch and seat module is open.

No

Repair or replace the harness.

Yes

Step 5 Check whether the T-BOX grounding circuit is open.



- A. Multimedia settings from vehicle power supply to OFF.
- B. Disconnect the T-BOX harness connector IP66.
- C. Use a multimeter to measure each terminal according to the table below:

Measure terminal 1	Measure terminal 2	Standard value
IP66(3)	Vehicle body is grounded.	Standard resistance: less than 1Ω
IP66(40)	Vehicle body is grounded.	

- D. Confirm whether the measured value meets the standard.

No

Repair or replace the harness.

Yes

Step 6 Replace the T-BOX.

- A. Replace the T-BOX. Refer to [Replacement of Vehicle-Mounted Wireless Control Module](#)

Yes

System is normal.

No

Step 7 Reprogram and reset the T-BOX.

- A. Reprogram and reset the T-BOX. Refer to the [Programming and Setting of Each Module of the Complete Vehicle](#)

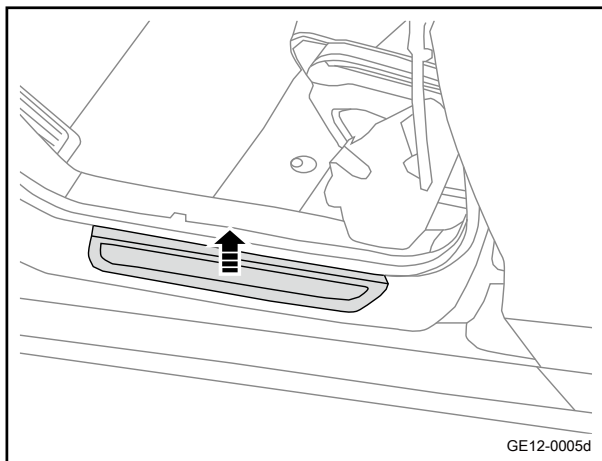
Next step

Step 8 Use the diagnostic scanner to determine whether the trouble is eliminated.

**Caution**

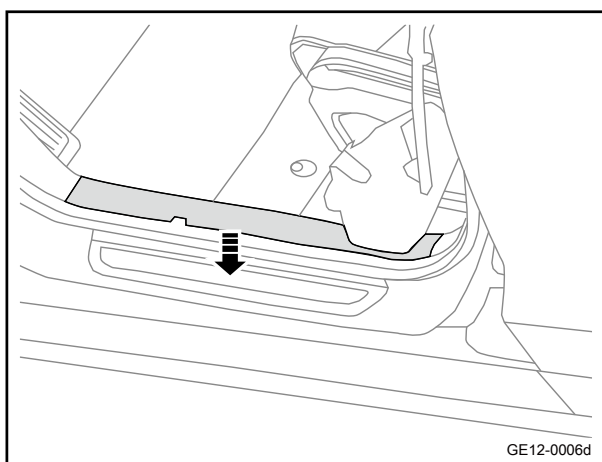
Replacement at left and right sides are performed in the same way.

- 1 Open the left front door.
- 2 Pry off the left front welcome pedal assembly.



**Installation procedure**

- 1 Move the left front welcome pedal assembly to the installation position.
- 2 Install the left front welcome pedal assembly.



- 3 Close the front left door.

**12.9.2.4 Replacement of left A-pillar upper trim panel assembly**

**Removal procedure**

- 1 Disconnect the negative cable of battery. Refer to [Procedures for Disconnecting and Connecting Battery Cable](#)
- 2 Remove the left pillar A middle trim panel. Refer to [Replacement of Left Pillar A Middle Trim Panel Assembly](#)