

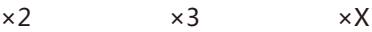





Instructions for use

Symbol explanation

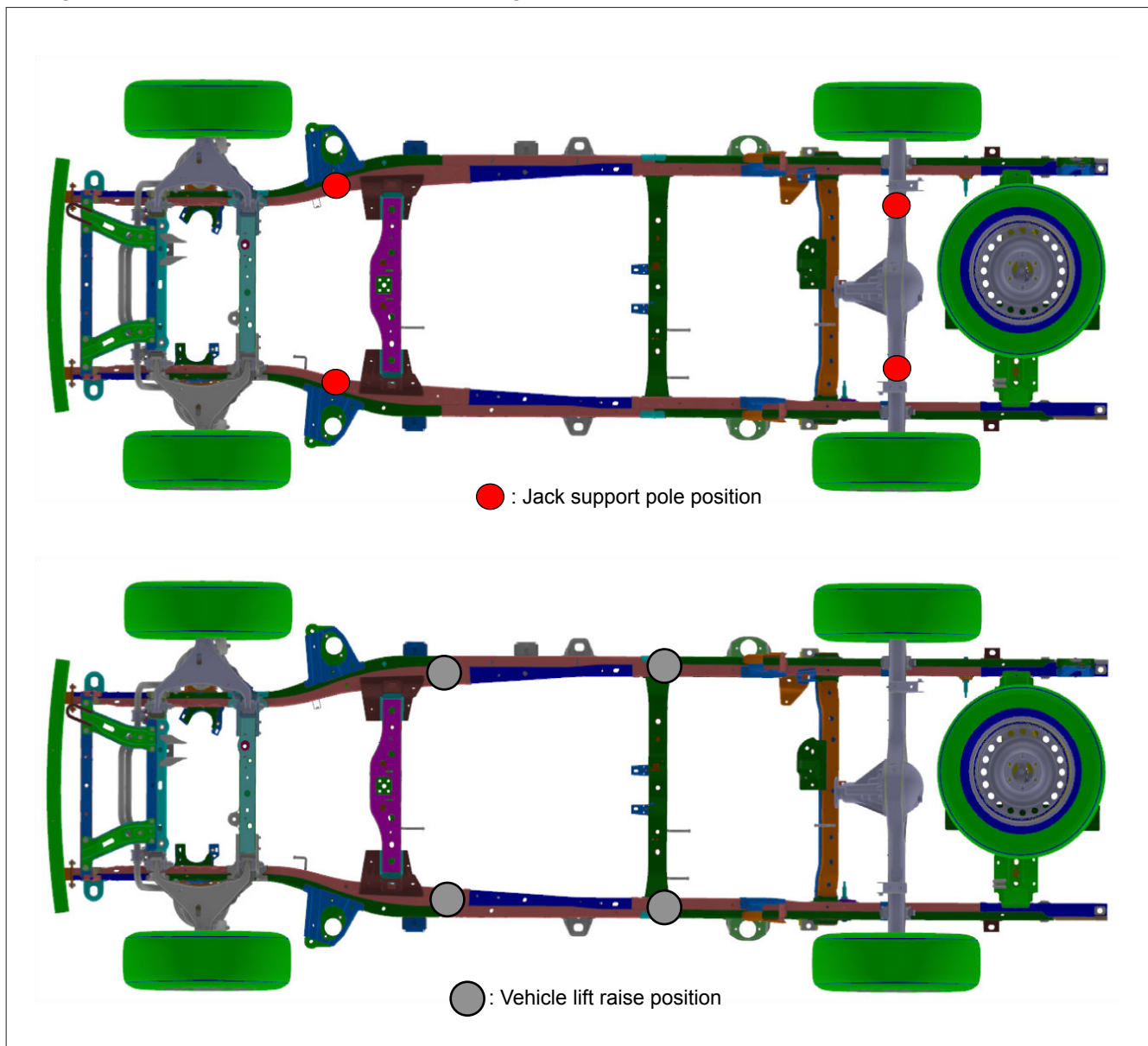
Symbol	Name	Positions where they are used	Meaning of symbols
	Specified torque	Structural diagram	Tightening torque for tightening the parts and components
	Non-reusable parts	Structural diagram	Such parts and components are non-reusable
	Quantity of parts and components with a same specification	Structural diagram	If there are 2 or more than 2 parts of same model or specification, the symbol indicates number of same parts
	Snap	Step diagram	Clip-type fastener, with outline magnified in the illustration When there is only one type of snap, the symbol indicates specific position of the snap
	Snap	Step diagram	Clip-type fastener, with outline magnified in the illustration When there are 2 or more than 2 types of snap, the symbol indicates specific positions of the snaps
	Clip	Step diagram	Clip-type fastener, with outline magnified in the illustration When there is only 1 type of clip, the symbol indicates specific position of the clip

Lifting and supporting

⚠ Caution

- › To avoid damages of the vehicle chassis or inclination of the vehicle, support the vehicle only at the specified supporting positions.
- › When performing the work under the vehicle, you must use proper bracket to support the vehicle in a secure manner.
- › After the vehicle is lifted, do not start the engine or put into gear if drive wheels are still on the ground.

Lifting position of vehicle is as shown in the figure.



D03FABE7365D

P140600/P140700/P182500

P140600

DTC definition: one-way jam of EGR valve (anti-jamming operation failed).

DTC detection conditions:

1. The engine is in operation.

DTC occurring condition: The anti-jamming operation of the EGR valve fails and the number of EGR valve operation allowed within a certain range is > 6 (MT).

DTC occurring condition: The anti-jamming operation of the EGR valve fails and the number of EGR valve operation allowed within a certain range is > 5 (AT).

Possible cause of fault: The EGR valve is stuck.

P140700

DTC definition: Deviation of EGR valve position exceeds limit (demand and feedback).

DTC detection conditions:

1. The engine is in operation.
2. The engine coolant temperature > 0°C.
3. The battery voltage is > 11V.

DTC occurring condition: The deviation between the EGR valve demand and the feedback position is > 10%.

Possible cause of fault: Impurities in the EGR valve block the movement of the valve body or the driving motor is damaged.

P182500

DTC definition: Deviation of EGR valve position exceeds limit during cold start.

DTC detection conditions:

1. The engine is in operation.

DTC occurring condition: The deviation between the EGR valve demand and the feedback position is > 10%.

Possible cause of fault: impurities in EGR valve block the movement of valve body or the driving motor is damaged during cold start.

Possible fault description

- › The OBD failure indicator is on.
- › The EGR function is disabled.

Troubleshooting method

1. Turn the ignition switch to the OFF position

Notice

- › If preceding state of ignition switch is ON, after it is at OFF position, wait 60 s and then continue the operation.

2. Disconnect the EGR valve harness connector.
3. Place the ignition switch in the ON position.
4. Measure the voltage between EGR valve harness connector position sensor power pin and

P068800/P068900/P068700/P068600

P068800

DTC definition: open circuit of the main relay line.

DTC detection conditions:

1. The ignition switch is turned to the ON position and the ECM is powered on.

DTC occurring condition: The relay self-diagnosis line fails (open circuit).

Possible cause of fault: The main relay line is open-circuited.

P068900

DTC definition: short circuit of the main relay line.

DTC detection conditions:

1. The ignition switch is turned to the ON position and the ECM is powered on.

DTC occurring condition: The relay self-diagnosis line fails (short circuit).

Possible cause of fault: The main relay line is short-circuited.

P068700

DTC definition: short circuit of the main relay control line to the power supply.

DTC detection conditions:

1. The ignition switch is turned to the ON position and the ECM is powered on.

DTC occurring condition: The relay self-diagnosis line fails (short circuit to the power supply).

Possible cause of fault: The main relay control line is short-circuited to the power supply.

P068600

DTC definition: short circuit of the main relay control line to ground.

DTC detection conditions:

1. The ignition switch is turned to the ON position and the ECM is powered on.

DTC occurring condition: The relay self-diagnosis line fails (short circuit to ground).

Possible cause of fault: The main relay control line is short-circuited to ground.

Possible fault description

- › The engine service indicator lights up.

Troubleshooting method

1. Turn the ignition switch to the OFF position

i Notice

- › If preceding state of ignition switch is ON, after it is at OFF position, wait 60 s and then continue the operation.

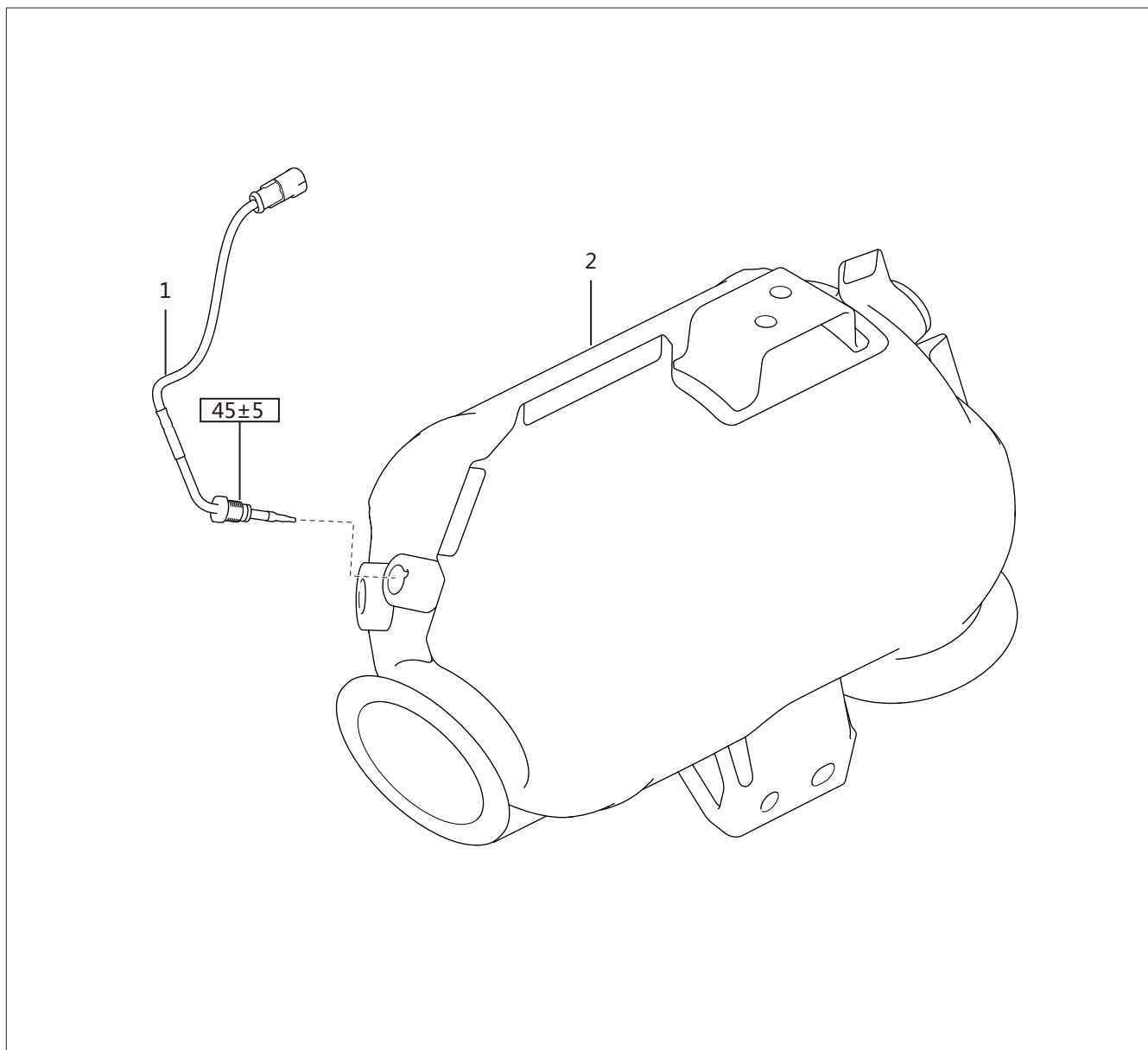
2. Pull out the main relay.
3. Measure whether the main relay is normal.

i Notice

- › Yes: Proceed to the next step.

DPF front high-temperature sensor

Structural diagram

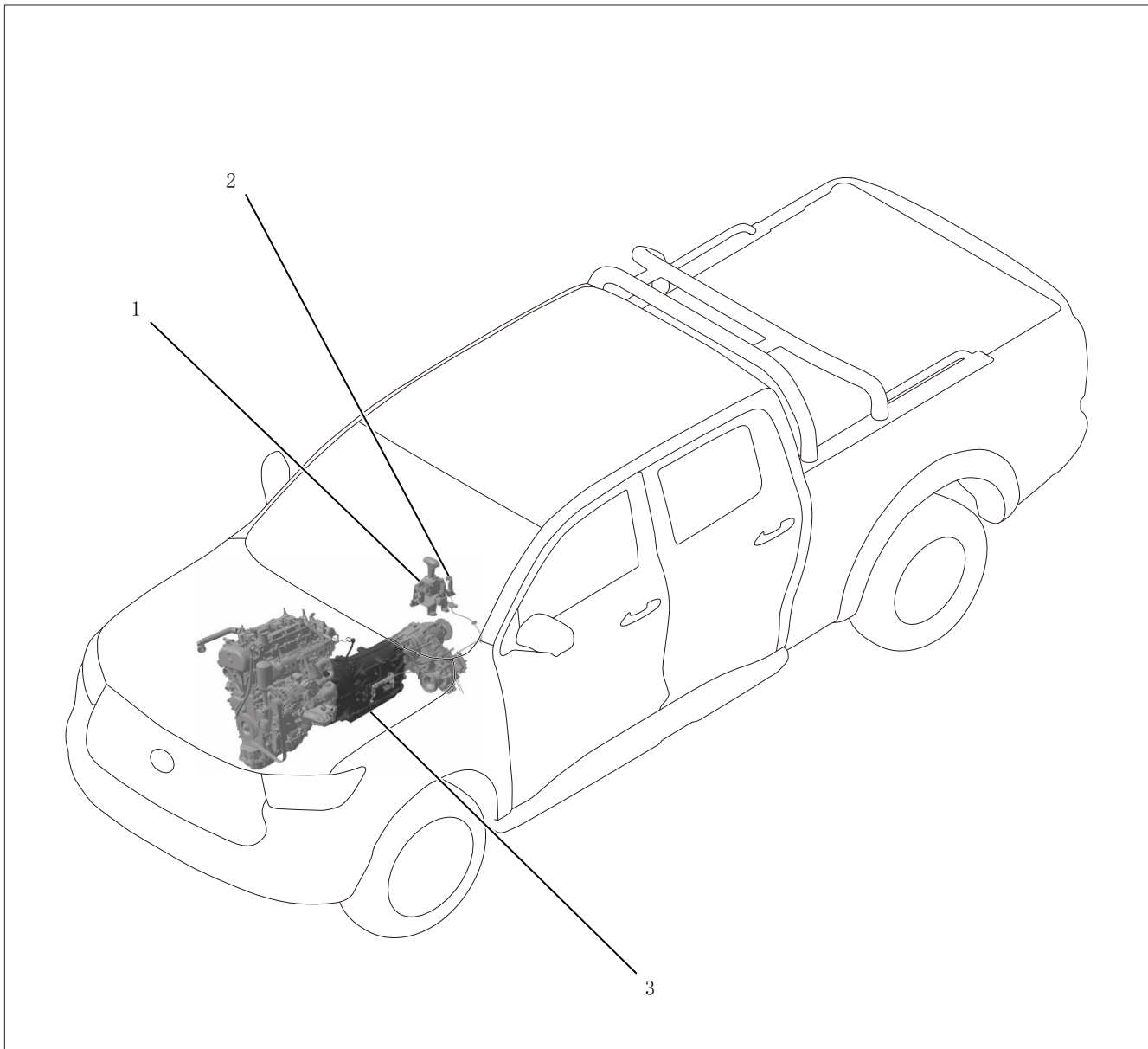


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1. DPF front high-temperature sensor

2. Particulate filter

Location diagram

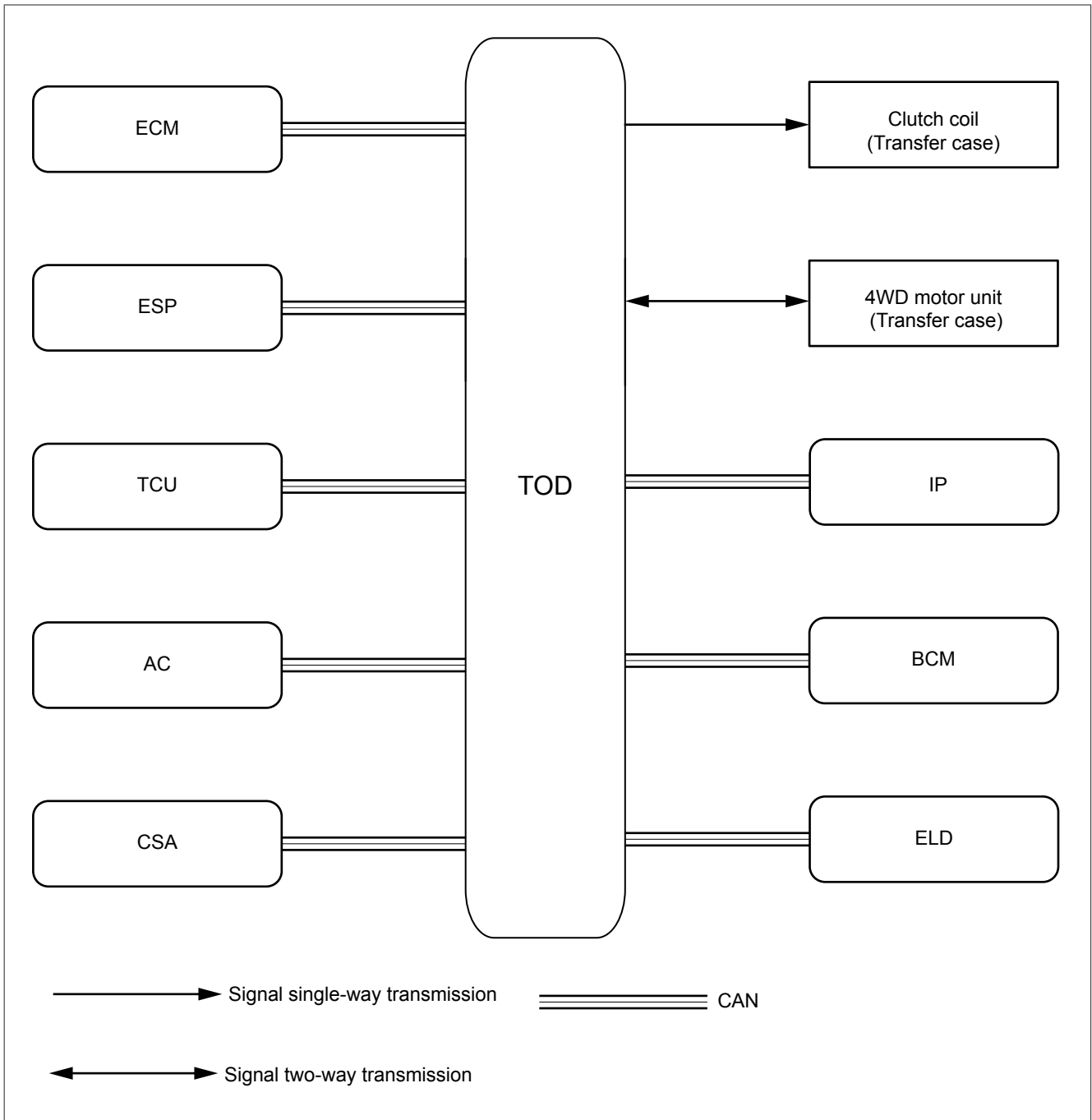


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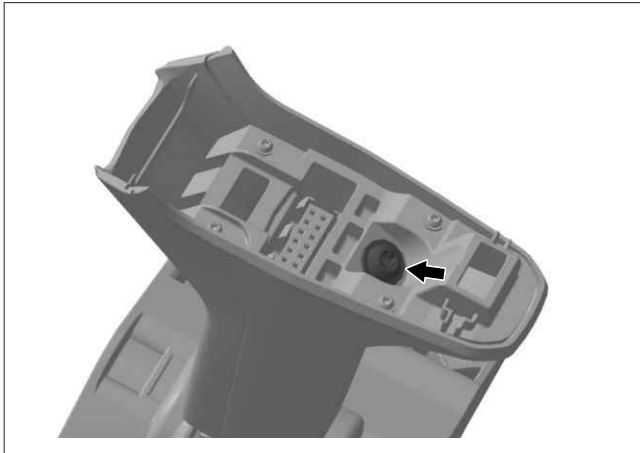
1. Shifter assembly
2. P gear unlock cable

3. Automatic transmission assembly

System diagram



4. Remove 1 gear shift lever mounting bolt



1A62F8E92910

5. Remove lower part of gear shift lever

⚠ Caution

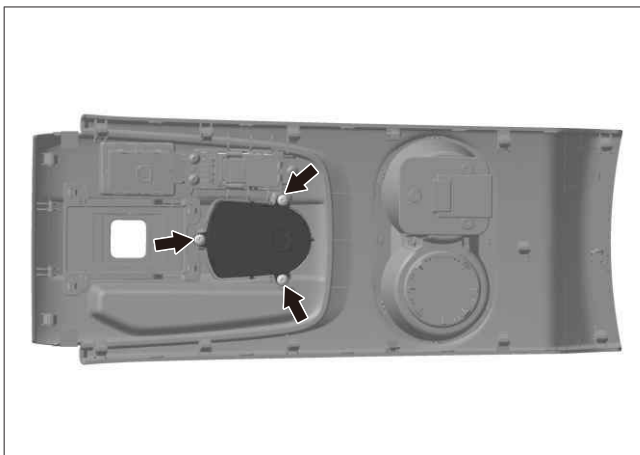
- › Do not disassemble lower component of gear shift lever, otherwise the component will be damaged.

6. Open the auxiliary instrument panel elbow pillow assembly

7. Remove the console panel assembly of the auxiliary instrument panel

8. Disconnect the harness connector of the console panel of the auxiliary instrument panel

9. Remove the 3 screws



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10. Remove drive mode switch assembly

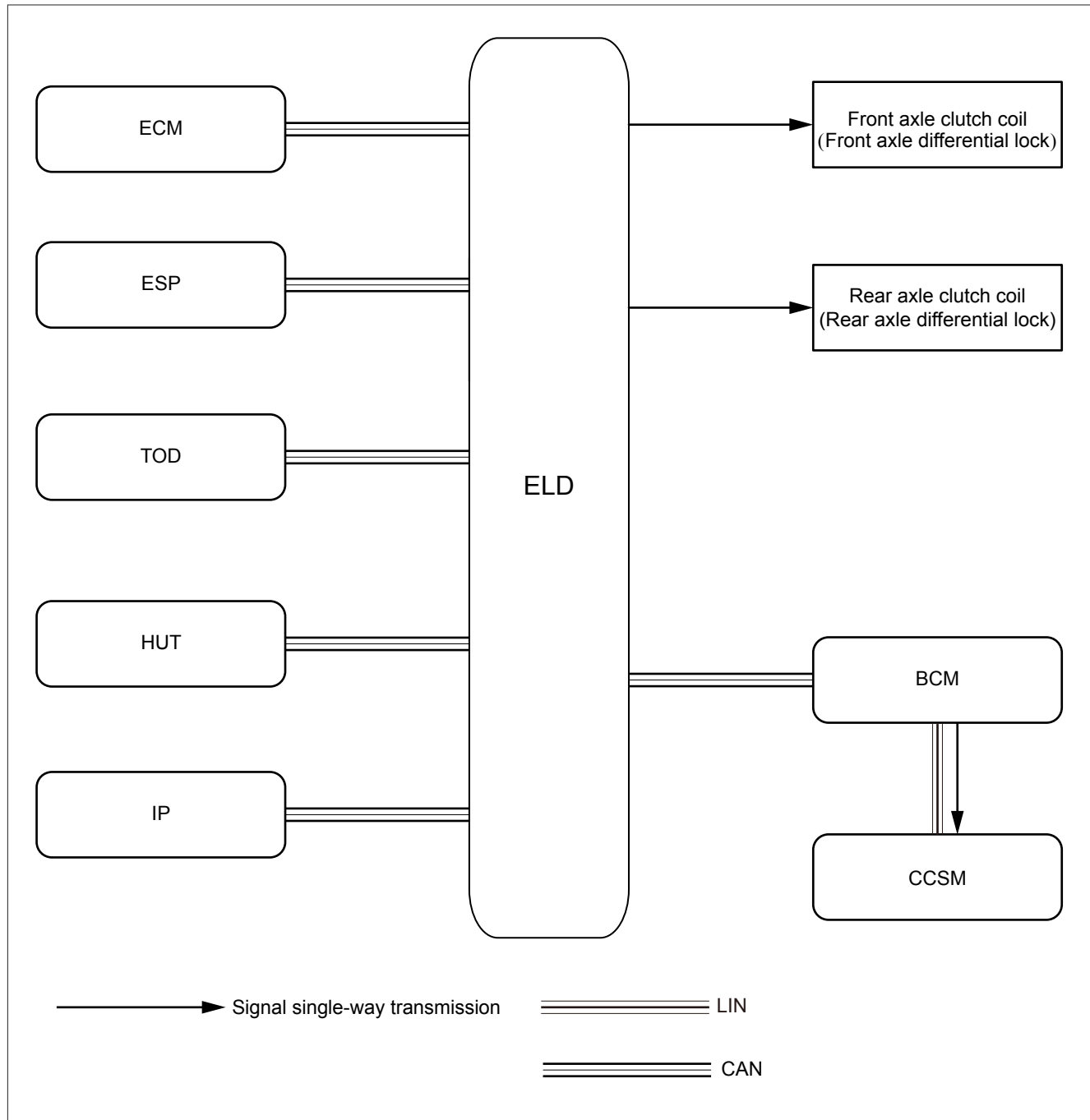
Installation

1. Perform installation work in reverse order of removal

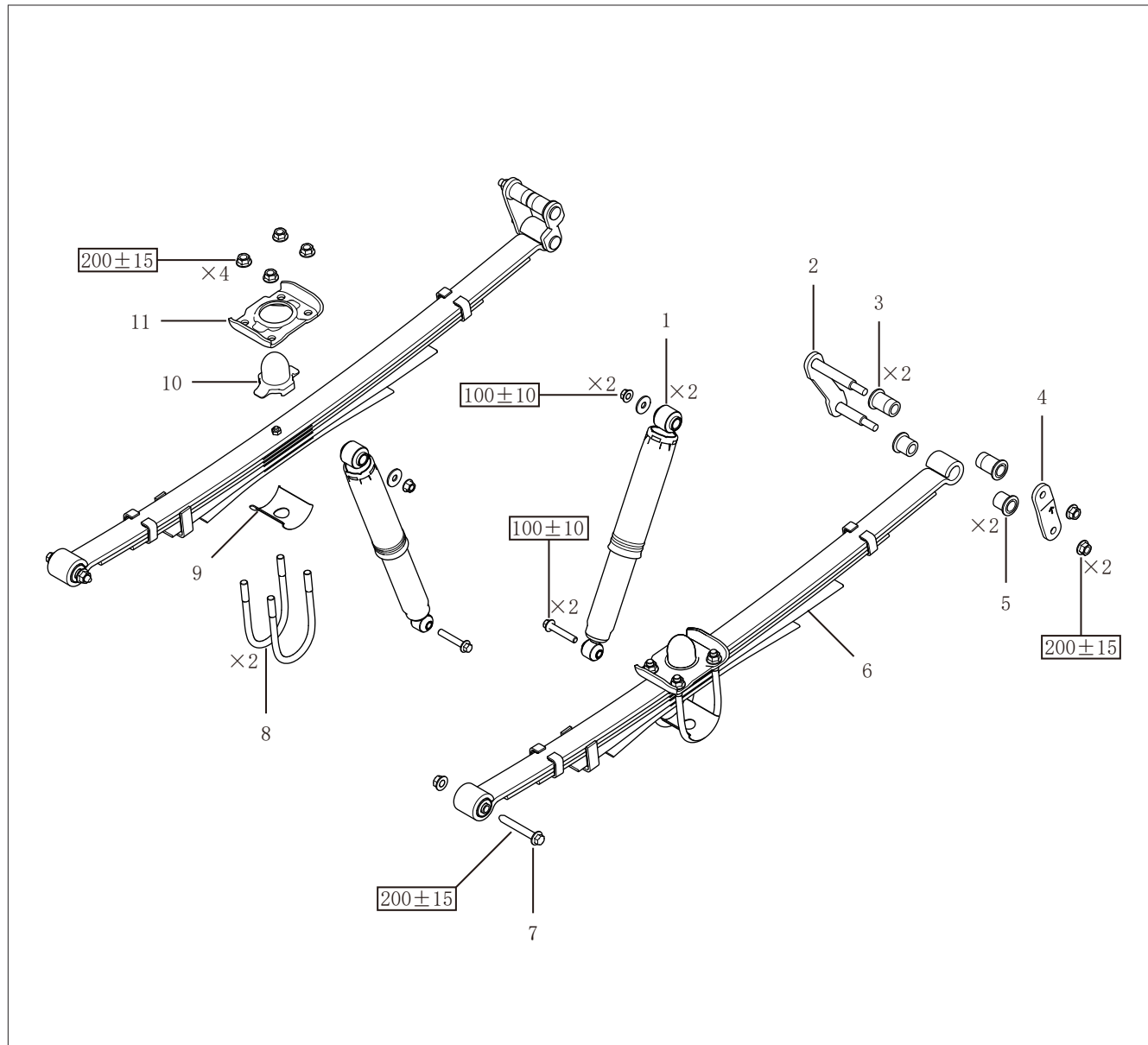
⚠ Caution

- › Before installing upper component of gear shift lever, check parts and components for breakage and pin deflection and iron clip falling off, and repair or replace the parts and components as appropriate.
- › In installing upper component of gear shift lever, ensure alignment of upper and lower components of gear shift lever, and then press on the middle of the upper component of gear shift lever and press it in vertical direction (about 100 N mounting force) until clap is heard, and installation of upper component of gear shift lever is completed.
- › Tighten the fastener according to the specified torque value.

System diagram



Structural diagram



32A4552DF6C3

- | | |
|--|--|
| 1. Rear shock absorber assembly | 7. Front pin shaft of steel plate spring |
| 2. Rear lifting lug assembly of steel plate spring | 8. U-bolt |
| 3. Bush for steel plate spring | 9. U-bolt guard plate |
| 4. Rear lifting lug guard of steel plate spring | 10. Bumper block of rear suspension |
| 5. Bush for steel plate spring | 11. Bearing bush assembly |
| 6. Rear steel plate spring assembly | |

Removal/installation

Removal

i Notice

- › Take the left side as example. The removal of right side is the same with it.

1. Disconnect the negative terminal of the battery.
2. Separate 2 snaps, and remove front door interior triangle plate



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3. Remove screw cover plate of front door interior handle
4. Remove 1 fastening screw on front door interior handle



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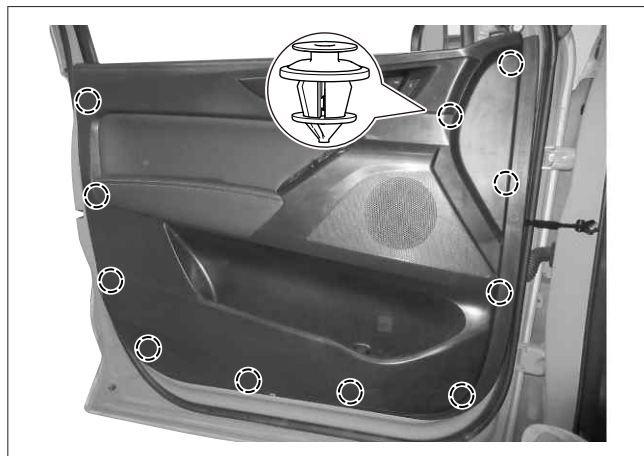
5. Remove front door handle box rubber mat

6. Remove 1 fastening screw on front door handle box



DD0E5EE2FDAC

7. Separate 11 snaps



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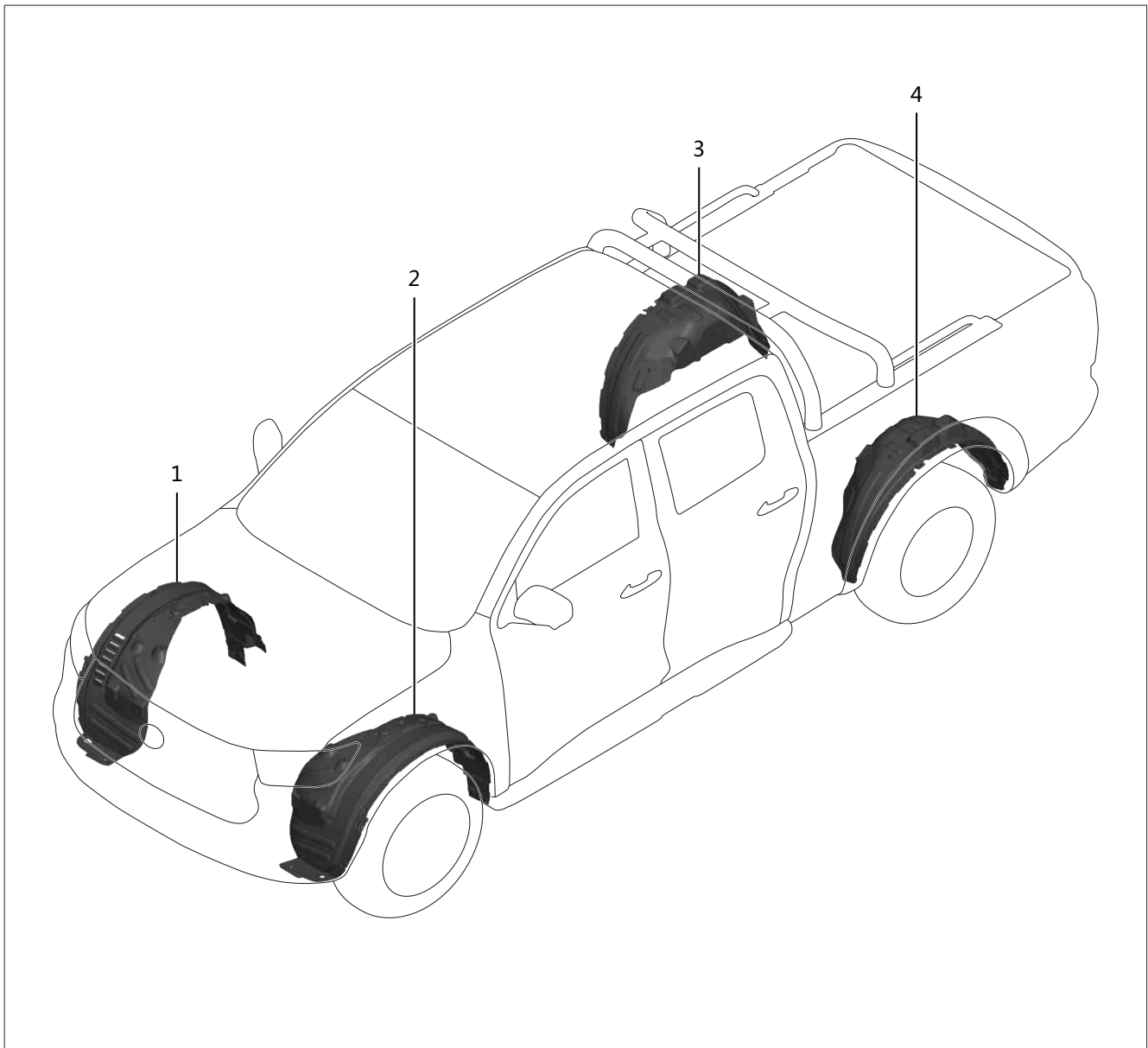
8. Separate inner handgrip cable
9. Disconnect harness connector
10. Remove front door inner trim plate

Installation

1. Perform installation work in reverse order of removal

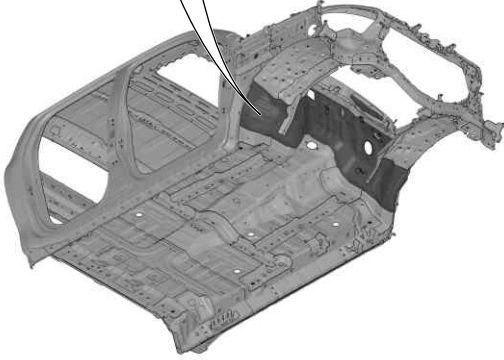
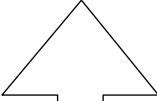
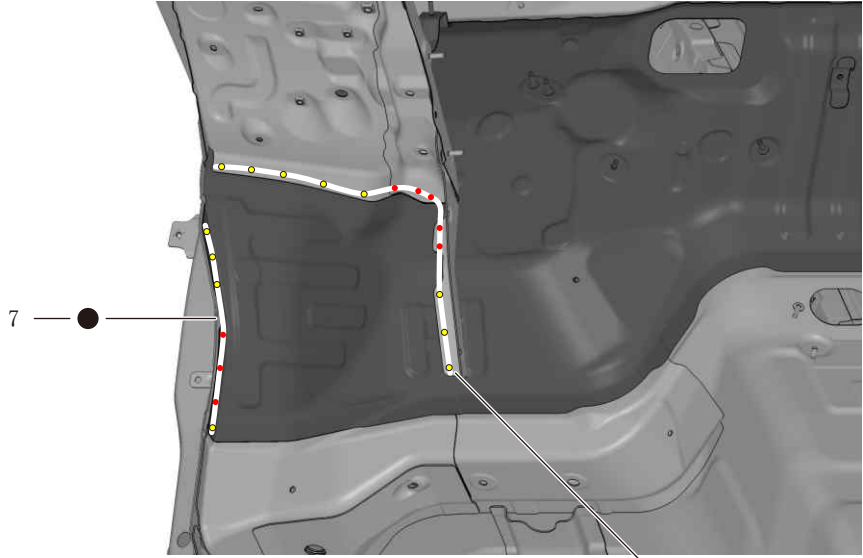
Splash guard

Location diagram



A8D0DD1BE3CD

1. Front right splash guard
2. Front left splash guard
3. Rear right splash guard
4. Rear left splash guard



Fluorescent stain leakage test

⚠ Caution

- › Fluorescent stains and refrigerator oil are mixed and flow together through the entire refrigeration system.
- › Refrigerator oil is soluble in water, and condensed water on evaporator core or cooling pipeline can wash away refrigerator oil and fluorescent stains from the actual part of the leak. The condensate may also carry away fluorescent stains through drip pipe of A/C system.
- › When a leak detection lamp is used, leakage in the A/C system will be indicated in light green or yellow.

1. Remove any remaining stains from the access port thoroughly with a cloth and approved scavenger
2. Add a certain amount of fluorescent stain

i Notice

- › For vehicles not added with fluorescent stain.
- › Leak detecting fluorescent stain takes some time to take effect. Depending on the leakage rate, leakage may not be observed over a period of 15 min to 7 days.
- › Use dark glasses with UV lamps, as this will enhance the color of the stains.

3. All joints or connections using seal washer or O-ring shall be tested by the leak detection lamp
4. All A/C system components shall be tested by the leak detection lamp
5. A/C compressor shaft seal shall be tested by the leak detection lamp
6. Check A/C hose and pressure sensor (pressure switch) using leakage detecting lamp
7. Check A/C system drip pipe using leakage detecting lamp (if there is suspected leakage from evaporator core)
8. The access port seal cap shall be tested by the leak detection lamp

Air tightness inspection

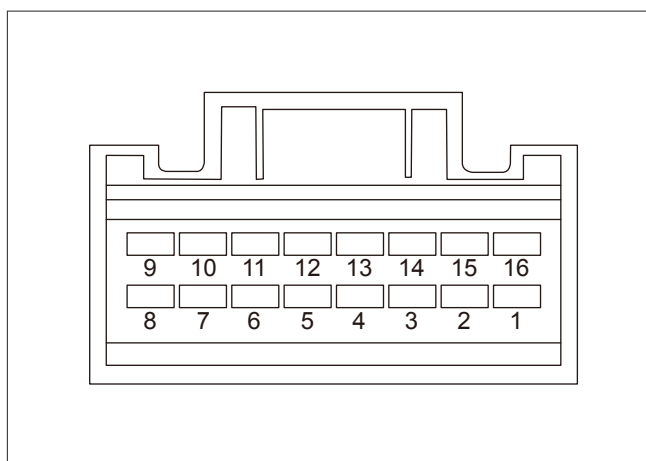
⚠ Caution

- › Do not spray soapy water on the molded pin of the pressure sensor/pressure switch.
- › To make sure if there is leakage from molded pin of pressure sensor/pressure switch, perform visual inspection. If there is leakage, residual refrigerant may stay at the molded pin. If there is no leakage from pressure sensor/pressure switch, there is no impurity and refrigeration oil stain at the molded pin.
- › If the leak is finally confirmed to be caused by the damage of certain component in the A/C system, please carry out leak test after replacing it. Using soap or other alkaline liquid to test electrical parts such as pressure sensor for leak is prohibited, otherwise it will lead to refrigerant leak due to the damage to the sensor caused by its internal corrosion.

1. Check if system leakage is normal leakage using refrigerant leakage detector with accuracy of 10 g every year or at interval of a shorter period
2. If abnormal leak is detected and the system is to be dismantled (for repairing or replacing hose, fittings, etc.), all refrigerant in the system shall be recovered
3. The system must be evacuated, packed, filled with refrigerant after leak detection and repair are completed

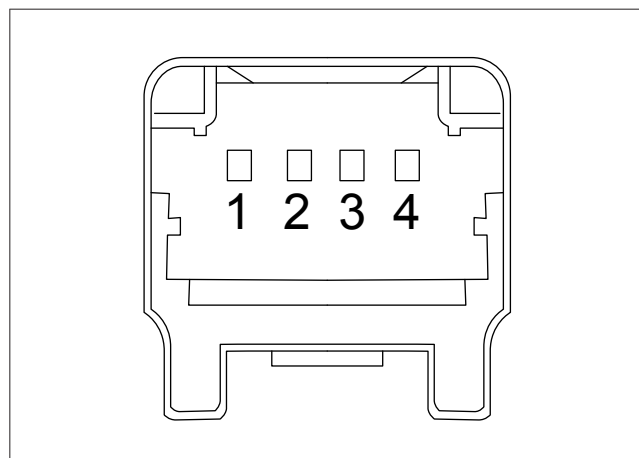
Reading lamp

Pin definition



814C6DD52E80

Pin No.	Function
1	GND
2	Power supply
3	—
4	—
5	—
6	—
7	—
8	—
9	Gated input
10	—
11	—
12	—
13	—
14	—
15	—
16	—



2B3078BF95EA

Pin No.	Function
1	Microphone power supply
2	Microphone GND
3	—
4	—