

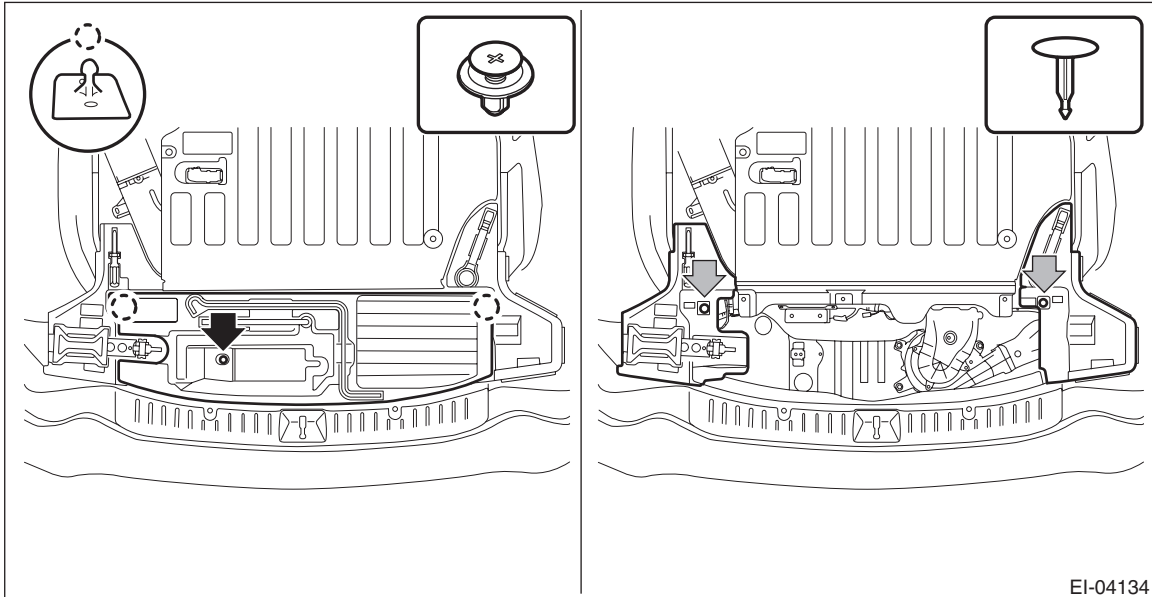
12.Power Cable

A: REMOVAL

WARNING:

The hybrid system includes a high voltage circuit. Mishandling could cause accidents such as electric shock or leak. Always check “CAUTION (HYBRID SYSTEM)” and perform the proper operation. <Ref. to PC-7, CAUTION (HYBRID SYSTEM), Precaution.>

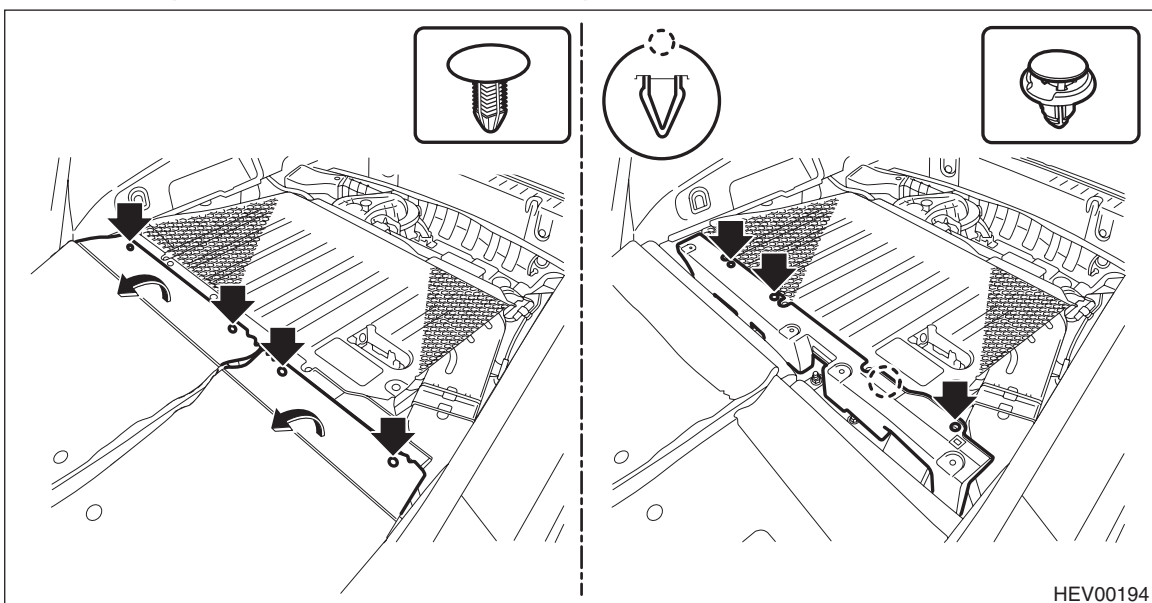
- 1) Remove the service disconnect plug. <Ref. to HEV-15, REMOVAL, Service Plug.>
- 2) Release the clips and claws, then detach the sub-trunk assembly and the spacer - rear floor side.



- 3) Remove the rear seat cushion and fold the backrest assemblies LH and RH. <Ref. to SE-23, REMOVAL, Rear Seat.>

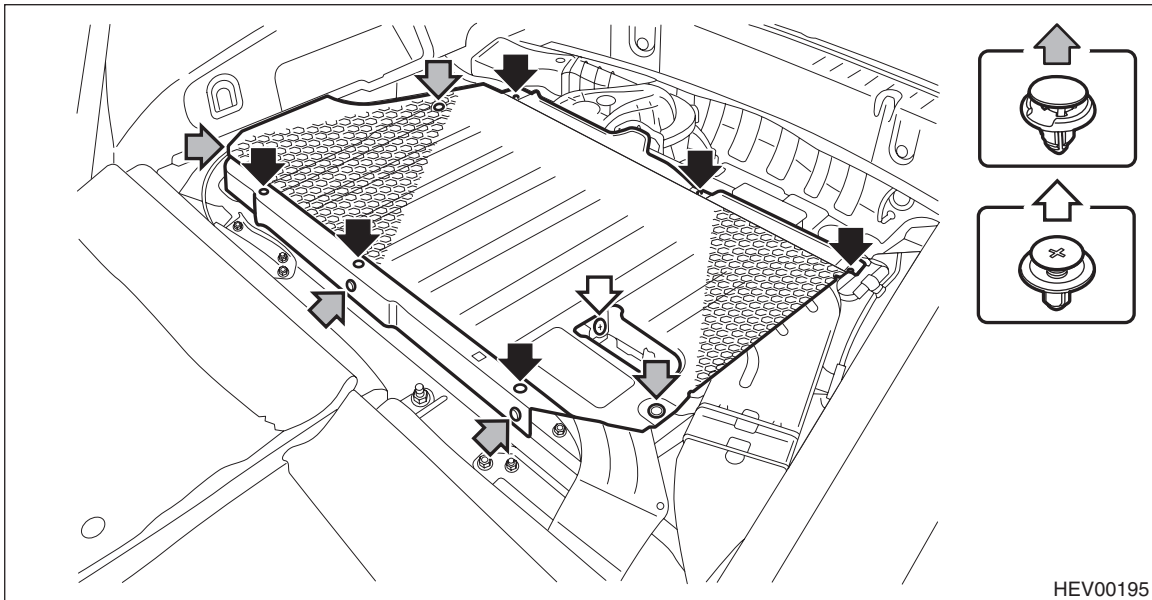
- 4) Remove the spacer - rear floor front.

- (1) Release the clips, and fold back the bottom of the cover COMPL - rear backrest LH and RH of the rear seat back.
- (2) Release the clips and claws, then detach the spacer - rear floor front.



5) Remove the TORX® bolts, release the clips, and then remove the battery cover.

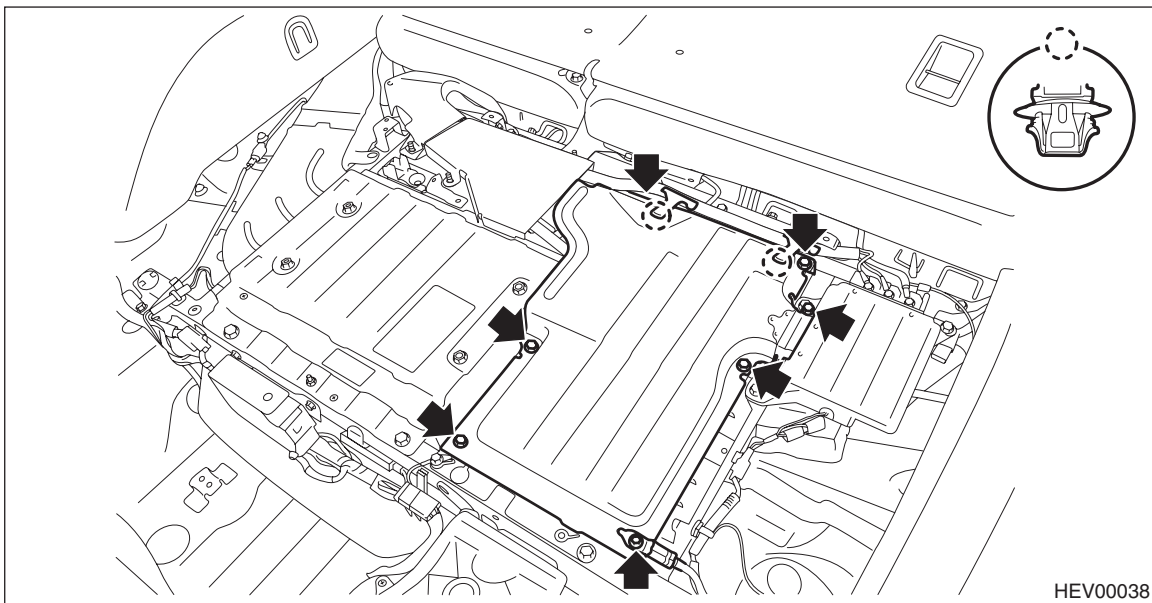
Preparation tool:
TORX® T30



6) Remove the inverter cover.

(1) Remove the bolts and ground terminal.

(2) Release the cable clips, and remove the inverter cover.



Power Cable

HYBRID ELECTRIC VEHICLE

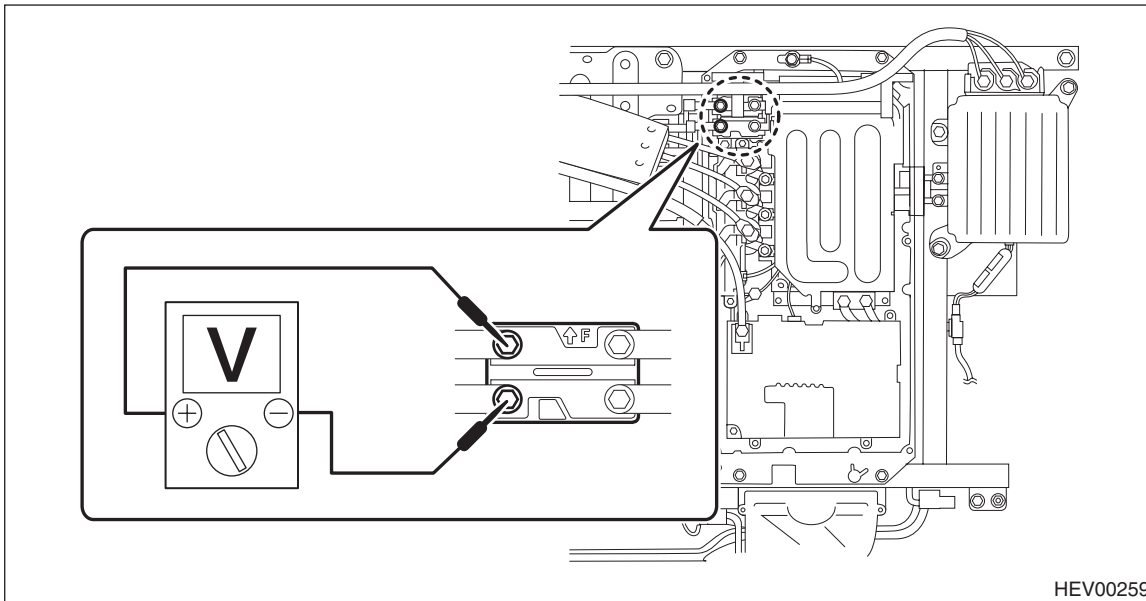
7) Perform zero-voltage test.

- (1) Measure the voltage of the high voltage DC line at the high voltage battery side of the electric noise filter.

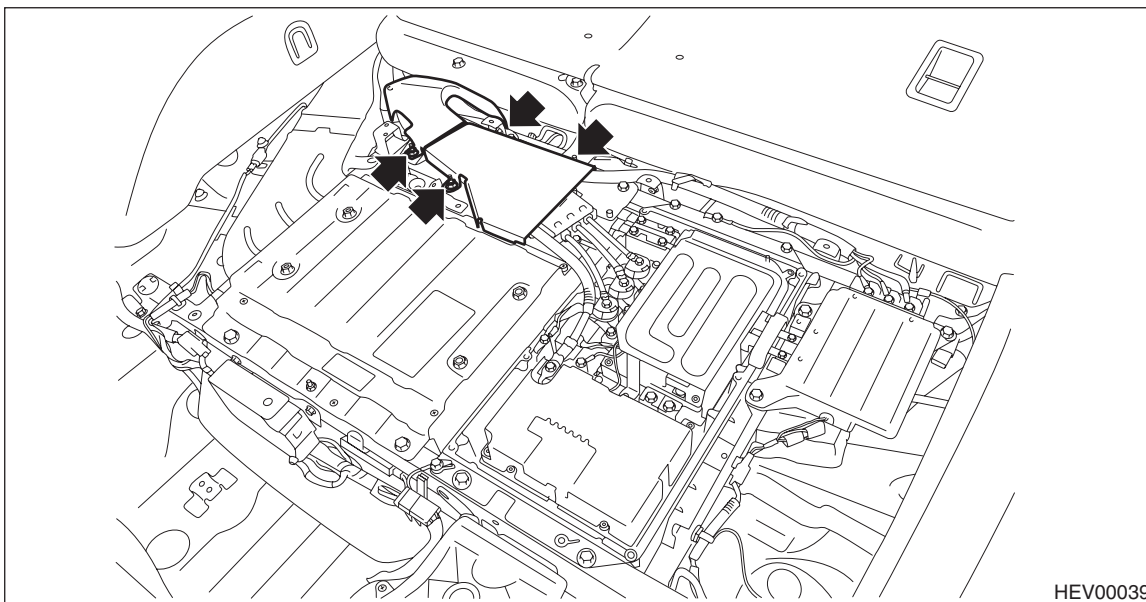
Preparation tool:

Insulation multimeter

Standard: 0 V



8) Remove the nut and remove the cover - shield battery and the cover - shield seat.

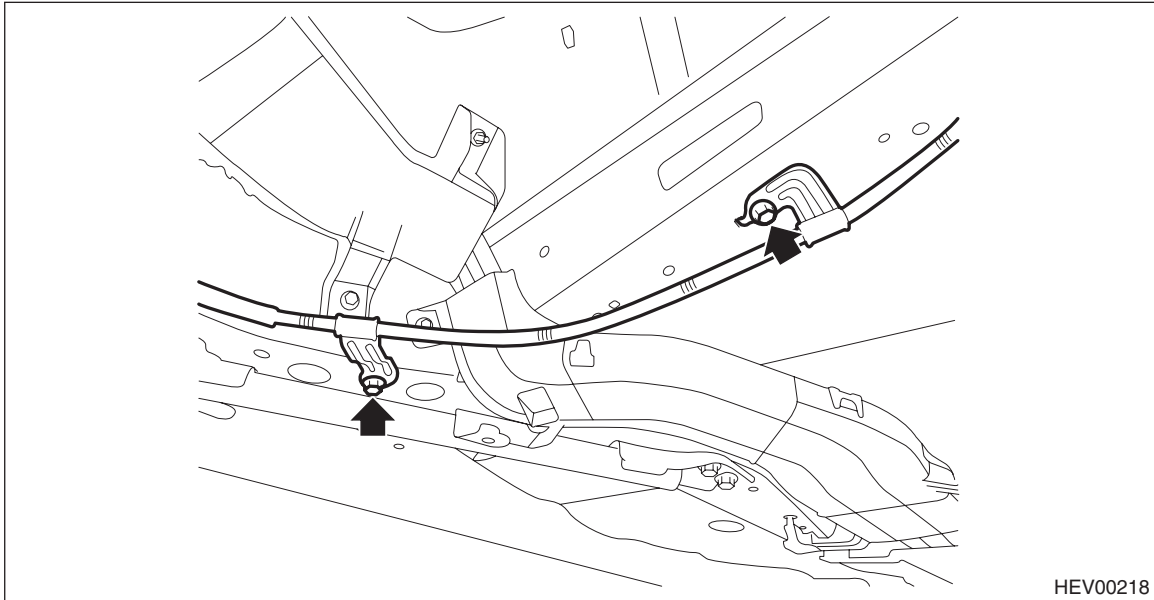


9) Remove the front under cover. <Ref. to EI-32, REMOVAL, Front Under Cover.>

10) Remove the floor under protector. <Ref. to EI-34, REMOVAL, Floor Under Protector.>

11) Remove the fuel tank. <Ref. to FU(H4DO(HEV))-105, REMOVAL, Fuel Tank.>

12) Remove the bolt securing the cable assembly - parking brake.

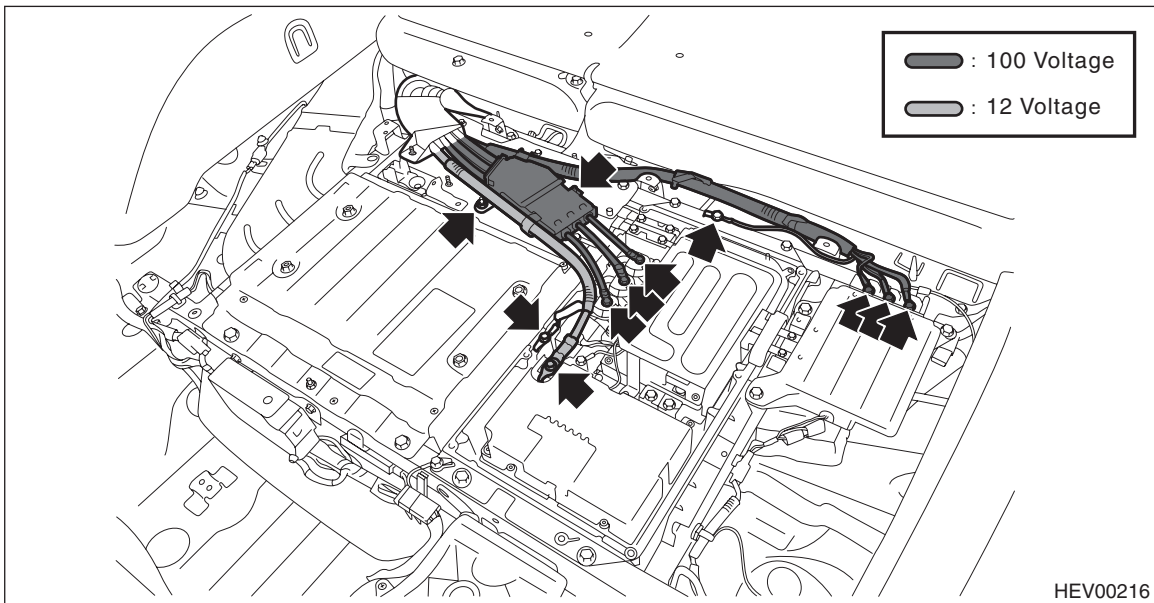


13) Remove the power cable.

(1) Remove the bolts and nuts and disconnect the ground terminal and the power cable.

CAUTION:

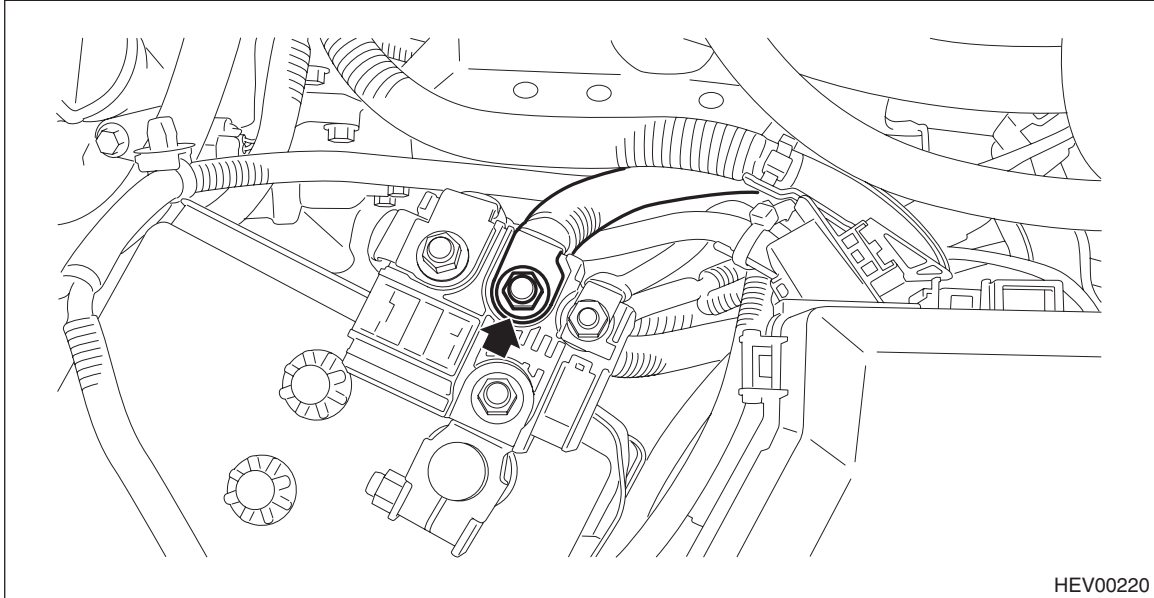
- Be careful not to use excessive force when disconnecting the power cable to avoid any damage.
- Always wrap the disconnected power cable terminals with insulating tape.



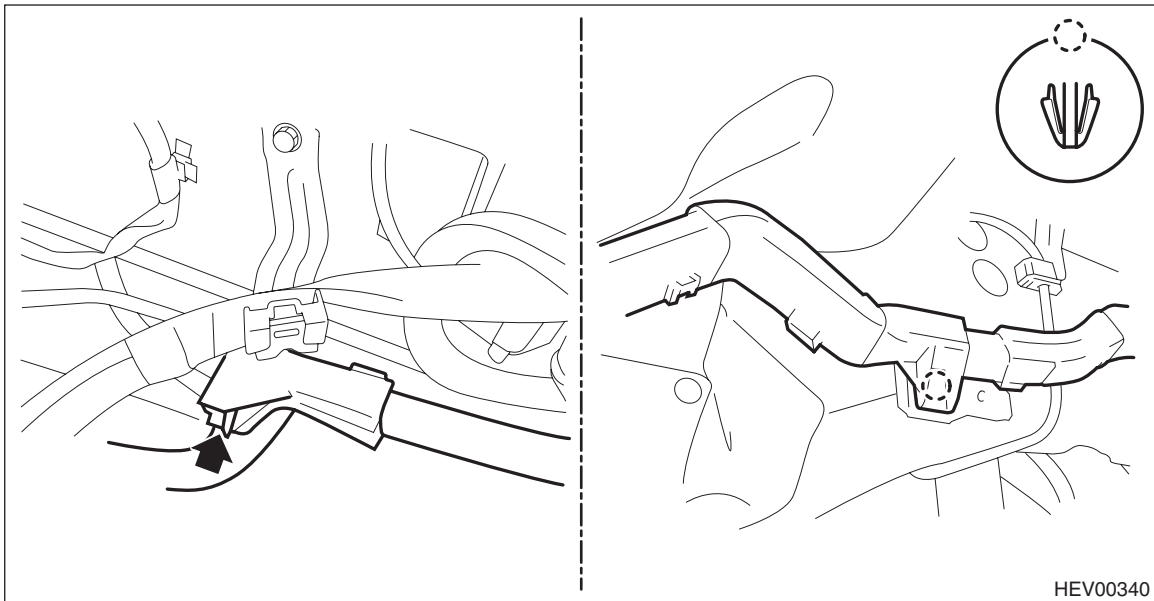
Power Cable

HYBRID ELECTRIC VEHICLE

- (2) Remove the nut and disconnect the power cable positive terminal from the 12 volt auxiliary battery.



- (3) Release the power cable clamp and the power cable clip.

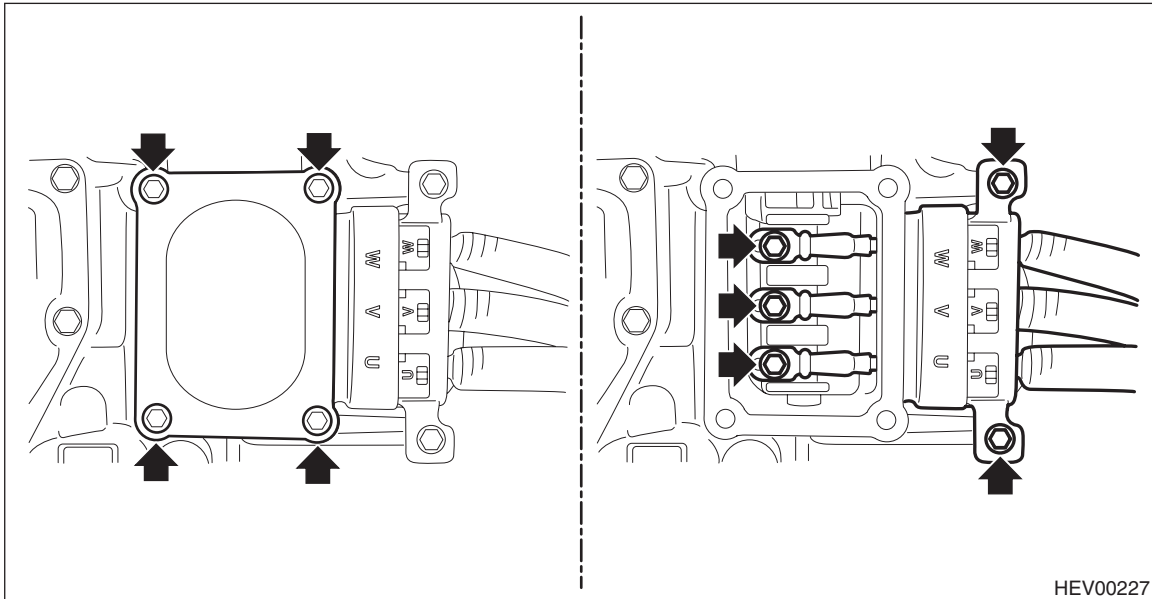


- (4) Remove the bolt, then remove the power connect cover and the gasket.

(5) Remove the bolts and nuts to pull out the terminal box assembly.

CAUTION:

- Be sure to insulate the power cable terminal by wrapping it with insulating tape.
- Be careful not to use excessive force or damage the power cable during removal.



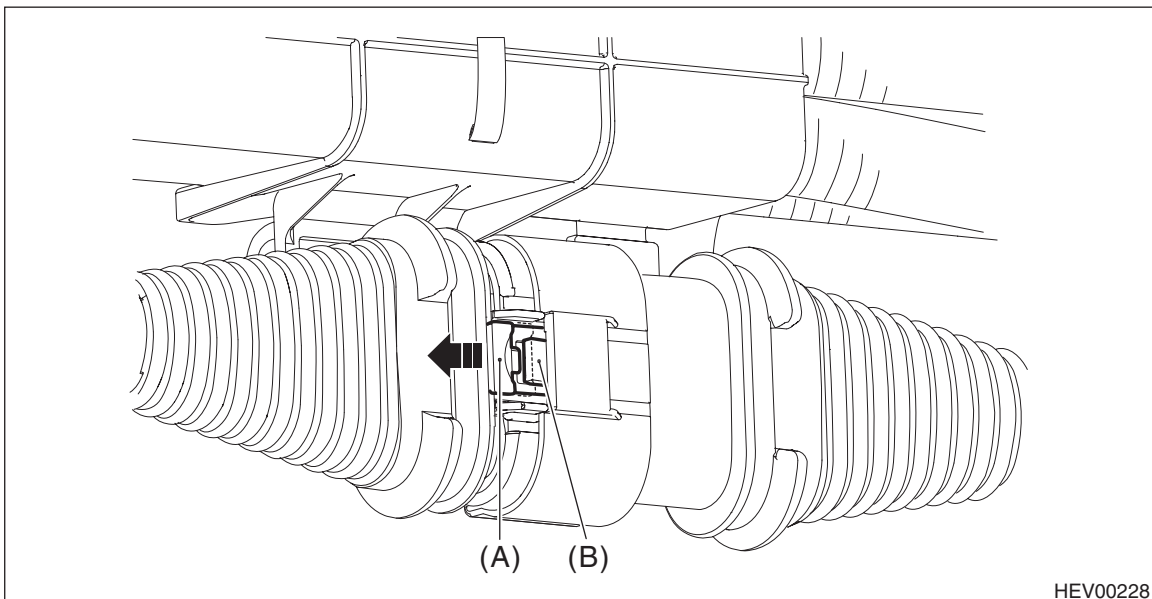
NOTE:

To prevent intrusion of foreign matter such as oil, water and dirt after removal, install the power connect cover and cover the terminal box assembly with tape.

(6) Push the claw (B) while pulling the slide lock (A) in the direction of the arrow, and then disconnect the electric oil pump harness connector.

CAUTION:

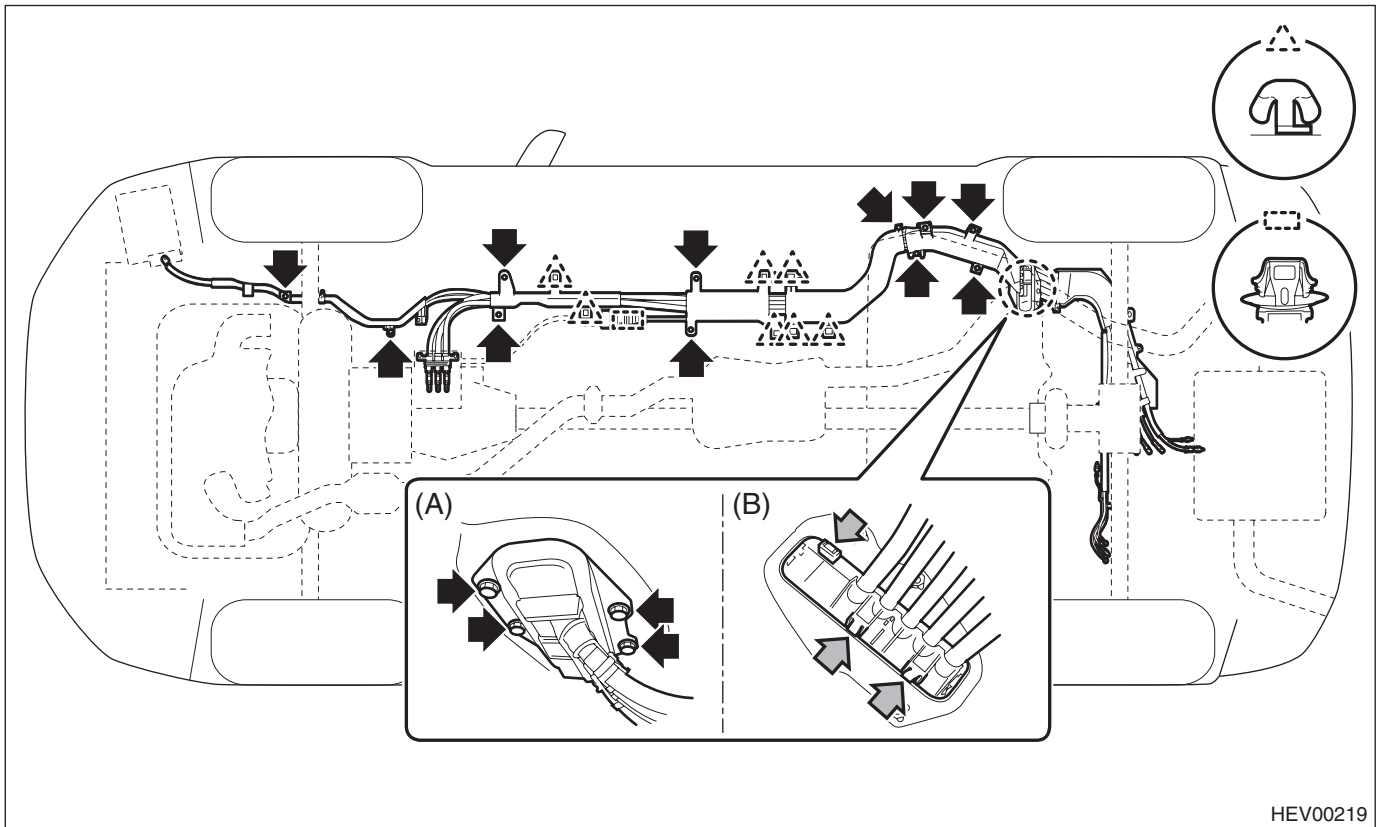
- After disconnecting the connectors, cover the female side connector with a clean cloth or plastic bag to protect from intrusion of foreign matter such as oil, water, or dusts. Also, cover the male side connector using insulating tape.
- If any foreign matter is found, remove them carefully so that the electrodes in the connector are not damaged. If there is any moisture, make it dry completely.
- Be careful not to use excessive force when removing the electric oil pump harness connector to avoid any damage.



Power Cable

HYBRID ELECTRIC VEHICLE

(7) Remove the bolts and nuts, release the clips and claws, and disconnect the power cable from the vehicle.



(A) Outside passenger room

(B) Passenger room side

B: INSTALLATION**WARNING:**

The hybrid system includes a high voltage circuit. Mishandling could cause accidents such as electric shock or leak. Always check "CAUTION (HYBRID SYSTEM)" and perform the proper operation. <Ref. to PC-7, CAUTION (HYBRID SYSTEM), Precaution.>

1) Install the power cable.

CAUTION:

- When connecting the power cable, pay attention to the letters (U, V, and W) imprinted on the drive motor inverter amperage sensor body as well as on the protector of the power cable.
- Connect the power cable properly referring to the letters (U, V, and W) imprinted on the electric oil pump inverter body. The power cable with the identification tape is connected to (U) and the power cable with a claw is connected to (V).
- Match the letters (U, V, and W) imprinted on both the power cable and the transmission body, then insert the cable to the transmission and fix securely.
- Insert the electric oil pump connector into the mating connector until a click is heard and lock it securely.
- Be careful not to allow foreign matter from entering the drive motor case assembly. If any foreign matter is found, remove them carefully so that the electrodes are not damaged.
- If there is any moisture in the drive motor case assembly, dry it completely before continuing work.
- Do not apply excessive force to the terminals and watch to make sure the cable is not damaged or pinched.
- Replace the power cable clip with a new part.
- Replace power connect cover gasket with a new part.

Tightening torque:

Power cable: 7.5 N·m (0.8 kgf-m, 5.5 ft-lb)

Power connect cover: 25 N·m (2.5 kgf-m, 18.4 ft-lb)

2) Install the cable assembly - parking brake bolt.

Tightening torque:

18 N·m (1.8 kgf-m, 13.3 ft-lb)

3) Install the fuel tank. <Ref. to FU(H4DO(HEV))-111, INSTALLATION, Fuel Tank.>

4) Install the front under protector. <Ref. to EI-35, INSTALLATION, Floor Under Protector.>

5) Install the front under cover. <Ref. to EI-32, INSTALLATION, Front Under Cover.>

6) Install the cover - shield battery and the cover - shield seat.

Tightening torque:

7.5 N·m (0.8 kgf-m, 5.5 ft-lb)

7) Install the ground terminal and inverter cover.

CAUTION:

Check that the sound proofing material on the inverter cover is not detached or damaged.

Tightening torque:

7.5 N·m (0.8 kgf-m, 5.5 ft-lb)

8) Install the battery cover.

Tightening torque:

7.5 N·m (0.8 kgf-m, 5.5 ft-lb)

9) Install the spacer - rear floor front.

10) Install the rear seat cushion. <Ref. to SE-27, INSTALLATION, Rear Seat.>

11) Install the sub-trunk assembly and the spacer - rear floor side.

12) Install the service disconnect plug. <Ref. to HEV-16, INSTALLATION, Service Plug.>