10.DC/DC Converter

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.



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 DC/DC converter.

(1) Remove the bolt and disconnect the power cable (12 V).

CAUTION:

Be careful not to use excessive force when disconnecting the power cable to avoid any damage.

- (2) Remove the bolts, then disconnect the bus bar.
- (3) Remove the connectors and bolts, and remove the DC/DC converter.



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 DC/DC converter.

Tightening torque:

6.5 N⋅m (0.7 kgf-m, 4.8 ft-lb) 2) Connect the bus bar.

Tightening torque:

7.5 N⋅m (0.8 kgf-m, 5.5 ft-lb)

3) Connect the power cable (12 V).

CAUTION:

Do not apply excessive force to the terminals and watch to make sure the cable is not damaged or pinched.

Tightening torque:

7.5 N·m (0.8 kgf-m, 5.5 ft-lb)4) 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)

5) Install the battery cover.

Tightening torque:

7.5 N⋅m (0.8 kgf-m, 5.5 ft-lb)

6) Install the spacer - rear floor front.

- 7) Install the rear seat cushion. <Ref. to SE-27, INSTALLATION, Rear Seat.>
- 8) Install the sub-trunk assembly and the spacer rear floor side.
- 9) Install the service disconnect plug. <Ref. to HEV-16, INSTALLATION, Service Plug.>