POWER ASSISTED SYSTEM (POWER STEERING)

3. Steering Wheel

A: REMOVAL

1) Disconnect the negative terminal from the battery, and wait for 60 seconds or more. <Ref. to NT-5, BAT-TERY, NOTE, Note.>

NOTE:

For the 12 volt engine restart battery of HEV model, disconnect the ground terminal from 12V engine restart battery sensor.

2) Set the tire to the straight-ahead position.

3) Remove the driver's airbag module.

CAUTION:

Before performing service on the airbag module, always refer to "CAUTION" of "General Description" in "AIRBAG SYSTEM" section. <Ref. to AB-10, CAUTION, General Description.>

(1) Using a hexagon wrench etc. wrapped by protective tape, insert the snap pins and release the locks (3 locations).



Steering Wheel

POWER ASSISTED SYSTEM (POWER STEERING)

(2) Disconnect the horn harness and airbag connector, and remove the airbag module. <Ref. to AB-19, DRIVER'S AIRBAG MODULE, CURTAIN AIRBAG MODULE & PRETENSIONER, PROCEDURE, Airbag Connector.>



4) Remove the steering wheel.

CAUTION:

- Always use the steering wheel puller for removal to avoid deforming the steering wheel.
- If the steering wheel has been removed, make sure that the steering roll connector is not turned from the original position.
 - (1) Disconnect the connector and remove the nut.
 - (2) Put alignment marks and remove the steering wheel.

Preparation tool: Steering wheel puller



POWER ASSISTED SYSTEM (POWER STEERING)

B: INSTALLATION

CAUTION:

• Before handling the airbag module, refer to "CAUTION" of "General Description" in "AIRBAG SYS-TEM". <Ref. to AB-10, CAUTION, General Description.>

• If the steering wheel and steering angle sensor are removed, perform the following VDC setting mode. <Ref. to VDC-26, VDC SENSOR MIDPOINT SETTING MODE (MODELS WITHOUT EyeSight), AD-JUSTMENT, VDC Control Module and Hydraulic Control Unit (VDCCM&H/U).>

 Model without EyeSight: VDC sensor midpoint setting mode <Ref. to VDC-26, VDC SENSOR MID-POINT SETTING MODE (MODELS WITHOUT EyeSight), ADJUSTMENT, VDC Control Module and Hydraulic Control Unit (VDCCM&H/U).>

 Model with EyeSight: Neutral of Steering Angle Sensor & Lateral G Sensor 0 point setting <Ref. to VDC-26, NEUTRAL OF STEERING ANGLE SENSOR & LATERAL G SENSOR 0 POINT SETTING (MODEL WITH EyeSight), ADJUSTMENT, VDC Control Module and Hydraulic Control Unit (VDC-CM&H/U).>

- Model with EyeSight: Longitudinal G sensor & lateral G sensor 0 point setting <Ref. to VDC-27, LONGITUDINAL G SENSOR & LATERAL G SENSOR 0 POINT SETTING MODE (MODEL WITH Eye-Sight), ADJUSTMENT, VDC Control Module and Hydraulic Control Unit (VDCCM&H/U).>

1) Align the center position of the steering roll connector. <Ref. to AB-98, ADJUSTMENT, Roll Connector.>

2) Install each part in the reverse order of removal.

NOTE:

Align the alignment marks on the steering wheel and the column assembly - steering.

Tightening torque:

Steering wheel: 39 N·m (3.98 kgf-m, 28.8 ft-lb)

Clearance:

Between cover assembly - column and steering wheel: 4 — 6 mm (0.16 — 0.24 in)

C: DISASSEMBLY

1) Remove the screw, disconnect the connector and remove the paddle shift switch. (Model with paddle shift)



2) Release the claws and clips, detach the cover - steering wheel LWR.

NOTE:

For model with steering switch, remove the connector and screw.



3) Remove the screws and then remove the satellite switch assembly.



Steering Wheel

POWER ASSISTED SYSTEM (POWER STEERING)

4) Remove the MID switch.



D: ASSEMBLY

Assemble each part in the reverse order of disassembly.

E: INSPECTION

1. PADDLE SHIFT SWITCH

Check the resistance of paddle switch.



	Step	Check	Yes	No
1	 SHIFT-UP SWITCH CONTINUITY CHECK. 1) Operate the + side of paddle shift assembly and hold it. 2) Measure the resistance between terminals of the paddle shift assembly connector. Terminals No. 4 - No. 3: 	Is the resistance less than 10 Ω?	Go to step 2.	Replace the pad- dle shift assembly.
2	 SHIFT-DOWN SWITCH CONTINUITY CHECK. 1) Operate the – side of paddle shift assembly and hold it. 2) Measure the resistance between terminals of the paddle shift assembly connector. <i>Terminals</i> <i>No. 1 — No. 4:</i> 	Is the resistance less than 10 Ω?	Go to step 3.	Replace the pad- dle shift assembly.
3	 CHECK SHIFT SWITCH INSULATION. 1) Do not operate the paddle shift assembly. 2) Measure the resistance between terminals of the paddle shift assembly connector. Terminals No. 4 - No. 3: No. 1 - No. 4: 	Is the resistance 1 MΩ or more?	Paddle shift assembly is nor- mal.	Replace the pad- dle shift assembly.

Replace the paddle switch if the inspection result is not within the standard value.

2. SATELLITE SWITCH ASSEMBLY

Refer to "Steering Satellite Switch" of "ENTERTAINMENT" section. <Ref. to ET-33, INSPECTION, Steering Satellite Switch.>

3. MID SWITCH

Refer to "Steering Switch" of "INSTRUMENTATION/DRIVER INFO" section. <Ref. to IDI-31, INSPECTION, Steering Switch.>