39. Transmission Control Device

A: REMOVAL

1) Remove the transmission assembly from the vehicle. <Ref. to 4AT-36, REMOVAL, Automatic Transmission Assembly.>
2) Extract the torque converter clutch assembly. <Ref. to 4AT-74, REMOVAL, Torque Converter Clutch Assembly.>
3) Remove the input shaft.
4) Lift-up the lever behind the transmission harness connector and disconnect it from stay.
5) Disconnect the air breather hoses. <Ref. to 4AT-72, REMOVAL, Air Breather Hose.>
6) Disconnect the inhibitor switch connector from stay.
7) Wrap the nipple attached to the air breather hose around with a vinyl tape.
8) Remove pitching stopper bracket.
9) Remove the inhibitor switch.
10) Remove the control valve body assembly. <Ref. to 4AT-55, REMOVAL, Control Valve Body.>
11) Pull off the straight pin of manual plate.

12) Remove the bolts securing select lever, then remove the select lever, manual plate and parking rod.

NOTE:
Be careful not to damage the lips of the press-fitted oil seal in the case.

13) Remove the detention spring.

B: INSTALLATION

1) Install the detention spring to transmission case.

*Tightening torque:*

6 N-m (0.6 kgf-m, 4.3 ft-lb)
2) Insert the range select lever, and tighten the bolt.

*Tightening torque:*

\[ 6 \text{ N-m (0.6 kgf-m, 4.3 ft-lb)} \]

3) Insert the manual plate and parking rod.

4) Insert the spring pin to manual plate.

5) Install the control valve assembly and oil pan. <Ref. to 4AT-56, INSTALLATION, Control Valve Body.>

6) Turn over the transmission case to its original position.

7) Install the pitching stopper bracket.

*Tightening torque:*

\[ 41 \text{ N-m (4.2 kgf-m, 30.4 ft-lb)} \]

8) Install the inhibitor switch and adjust the inhibitor switch. <Ref. to 4AT-45, Inhibitor Switch.>

9) Insert the inhibitor switch and transmission connector into stay.

10) Install the air breather hose. <Ref. to 4AT-72, INSTALLATION, Air Breather Hose.>

11) Insert the input shaft while turning it lightly by hand and verify the protrusion amount.

*Normal protrusion A:*

\[ 50 — 55 \text{ mm (1.97 — 2.17 in)} \]

12) Install the torque converter clutch assembly. <Ref. to 4AT-74, INSTALLATION, Torque Converter Clutch Assembly.>

13) Install the transmission assembly to the vehicle. <Ref. to 4AT-38, INSTALLATION, Automatic Transmission Assembly.>

**C: INSPECTION**

Make sure the manual lever and detention spring are not worn or otherwise damaged.