

## 28. Transmission Control Device

S510214

### A: REMOVAL

S510214A18

1) Extract the torque converter clutch assembly.

#### NOTE:

- Extract the torque converter clutch horizontally. Be careful not to scratch the bushing inside the oil pump shaft.
- Note that oil pump shaft also comes out.

2) Remove the input shaft.

3) Disconnect transmission harness connector from stay.

#### NOTE:

Lift-up lever behind the connector and disconnect it from stay.

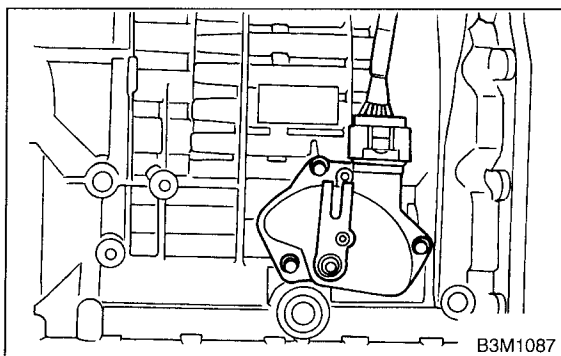
4) Disconnect inhibitor switch connector from stay.

5) Disconnect the air breather hoses. <Ref. to AT-27 REMOVAL, Air Breather Hose.>

6) Wrap vinyl tape around the nipple attached to the air breather hose.

7) Remove pitching stopper bracket.

8) Remove the inhibitor switch.



9) Prepare a block of wood. Turn the transmission case over, and support it with the block of wood.

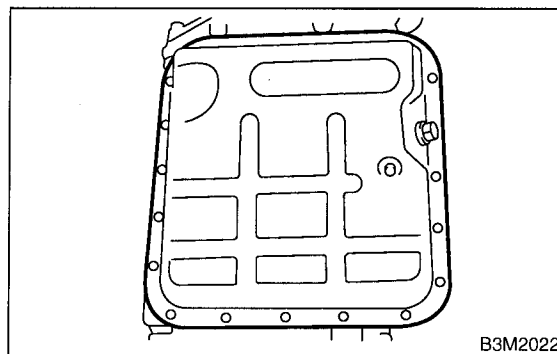
#### NOTE:

Turn the transmission case in the direction the inhibitor switch was installed.

10) Remove the oil pan.

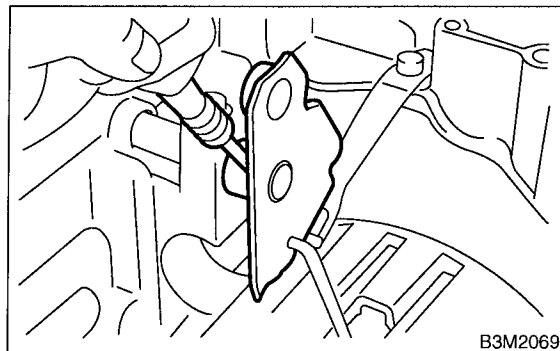
#### NOTE:

Use a scraper to remove oil pan.



11) Remove control valve body assembly. <Ref. to AT-83 REMOVAL, Control Valve Body Assembly.>

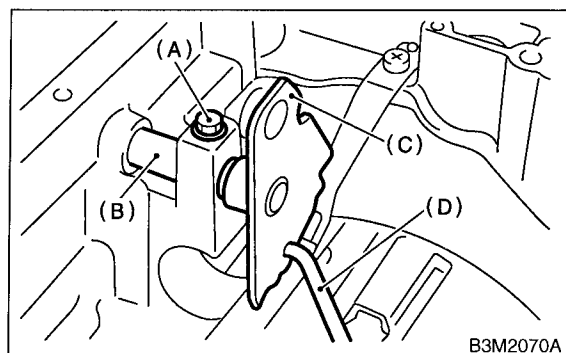
12) Pull off the straight pin of manual lever.



13) Remove bolts securing select lever, then remove select lever, manual lever and parking rod.

#### CAUTION:

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

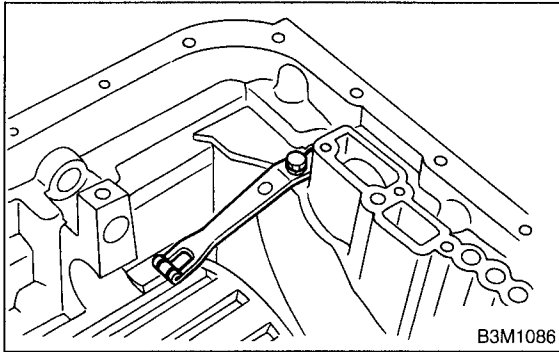


- (A) Bolt
- (B) Range select lever
- (C) Manual lever
- (D) Parking rod

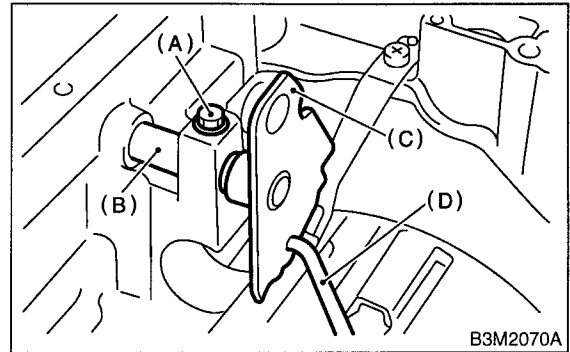
# TRANSMISSION CONTROL DEVICE

Automatic Transmission

14) Remove the detention spring.



3) Insert manual lever and parking rod.



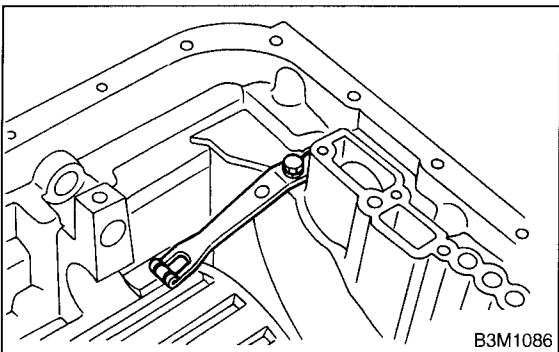
## B: INSTALLATION

S510214A11

1) Install detention spring to transmission case.

**Tightening torque:**

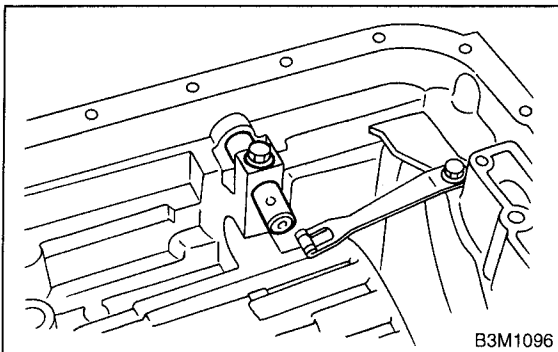
**6 N·m (0.6 kgf·m, 4.3 ft·lb)**



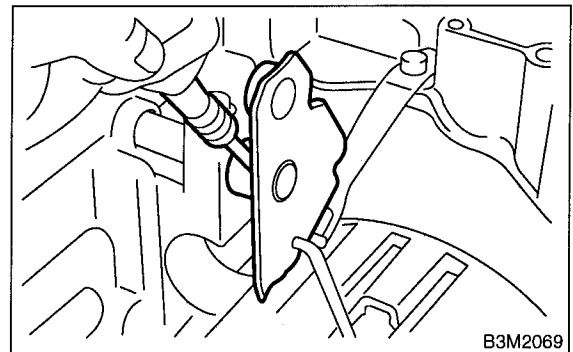
2) Insert range select lever, and tighten bolt.

**Tightening torque:**

**6 N·m (0.6 kgf·m, 4.3 ft·lb)**



4) Insert spring pin to manual lever.

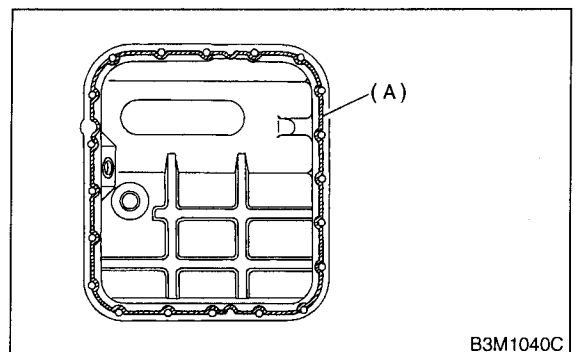


5) Install control valve assembly. <Ref. to AT-84 INSTALLATION, Control Valve Body Assembly.>

6) Apply proper amount of liquid gasket to the entire oil pan mating surface.

**Liquid gasket:**

**THREE BOND 1217B**



(A) THREE BOND (Part No. 1217B)

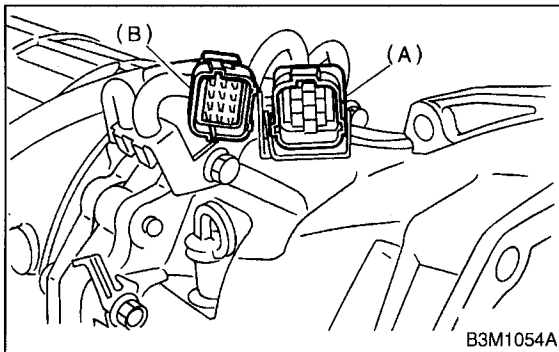
7) Turn over the transmission case to its original position.

8) Install pitching stopper bracket.

**Tightening torque:**

**41 N·m (4.2 kgf·m, 30.4 ft·lb)**

- 9) Install air breather hose. <Ref. to AT-27 INSTALLATION, Air Breather Hose.>
- 10) Install inhibitor switch and adjust the inhibitor switch by referring to Supplement AT section.
- 11) Insert inhibitor switch and transmission connector into stay.



- (A) Transmission harness
- (B) Inhibitor switch harness

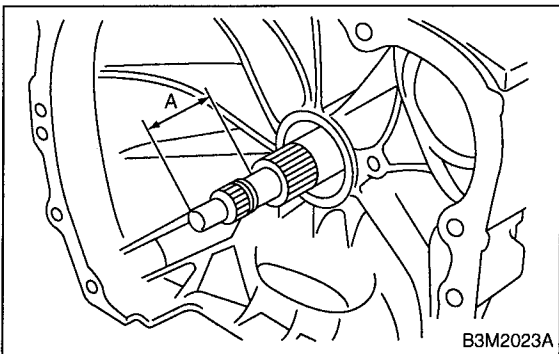
- 12) Insert the input shaft while turning lightly by hand.

**CAUTION:**

Be careful not to damage the bushing.

**Normal protrusion A:**

50 — 55 mm (1.97 — 2.17 in)



- 13) Install the torque converter clutch assembly. <Ref. to AT-34 INSTALLATION, Torque Converter Clutch Assembly.>

**C: INSPECTION** S510214A10

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