

# TORQUE CONVERTER CLUTCH CASE

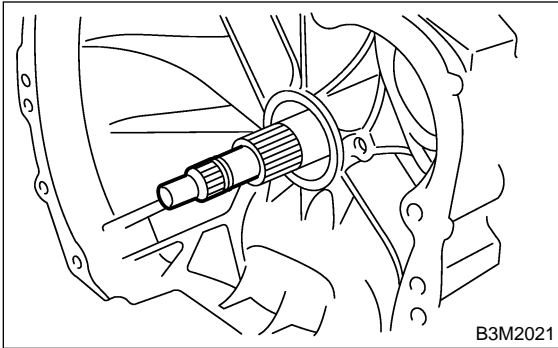
Automatic Transmission

## 17. Torque Converter Clutch Case

S510206

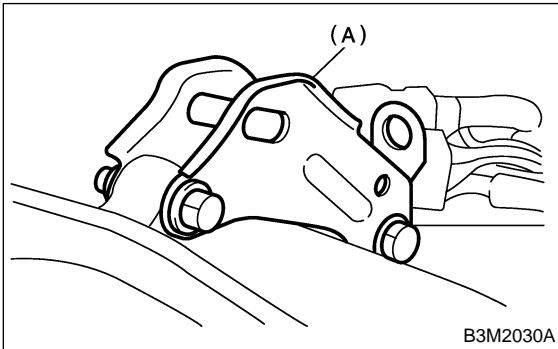
### A: REMOVAL S510206A18

- 1) Extract the torque converter clutch assembly. <Ref. to AT-35, REMOVAL, Torque Converter Clutch Assembly.>
- 2) Remove the input shaft.



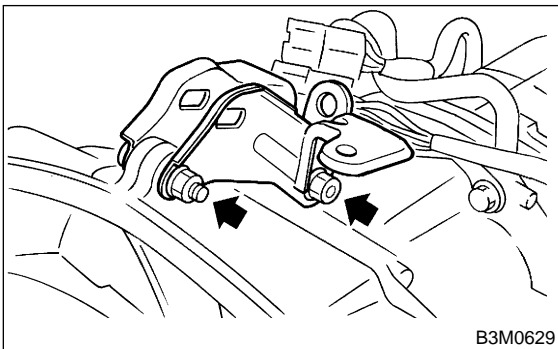
- 3) Remove air breather hose. <Ref. to AT-28, REMOVAL, Air Breather Hose.>
- 4) Remove pitching stopper bracket.

#### ● 3.0 L and TURBO models



(A) Pitching stopper bracket

#### ● Except 3.0 L and TURBO models

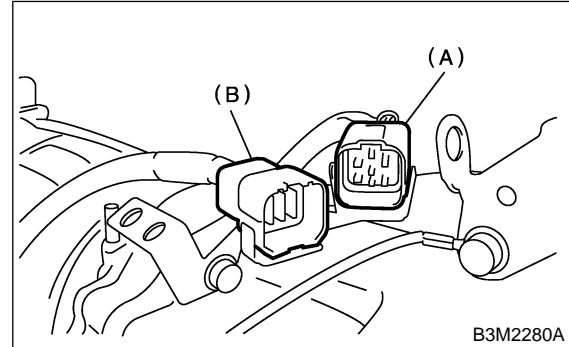


- 5) Disconnect transmission harness connector from stay.

#### NOTE:

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

- 6) Disconnect inhibitor switch connector from stay.



(A) Transmission harness  
(B) Inhibitor switch harness

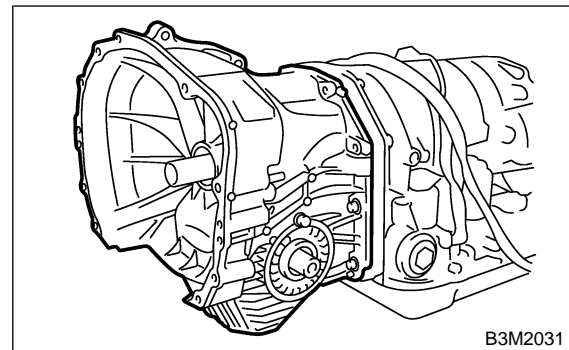
- 7) Remove the oil charger pipe. <Ref. to AT-29, REMOVAL, Oil Charger Pipe.>
- 8) Remove the oil cooler inlet and outlet pipes. <Ref. to AT-30, REMOVAL, Oil Cooler Pipes.>
- 9) Separation of torque converter clutch case and transmission case sections

#### NOTE:

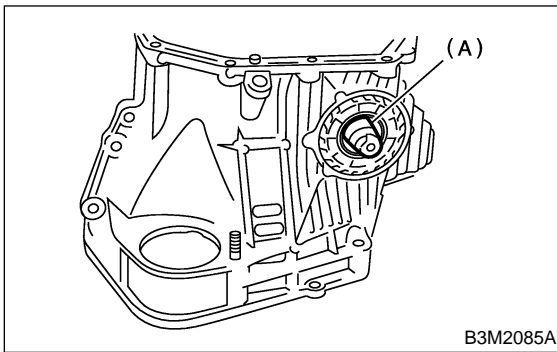
- Be careful not to damage the oil seal and bushing inside the torque converter clutch case by the oil pump cover.
- Be careful not to lose the rubber seal.

#### NOTE:

Separate these cases while tapping lightly on the housing.

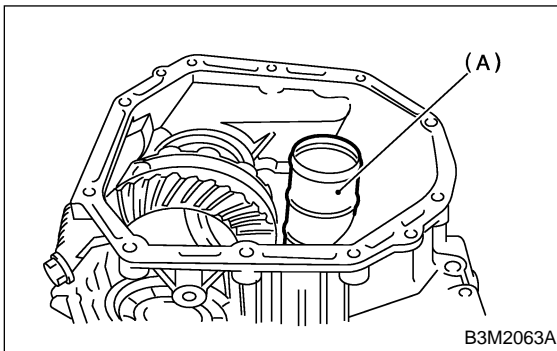


- 10) Wrap the axle shaft serration with vinyl tape.



(A) Vinyl tape

11) Remove the seal pipe if it is attached. (Reusing is not allowed.)



(A) Seal pipe

12) Remove the differential assembly. <Ref. to AT-74, REMOVAL, Front Differential.>  
 13) Remove the oil seal from torque converter clutch case.

## B: INSTALLATION SS10206A11

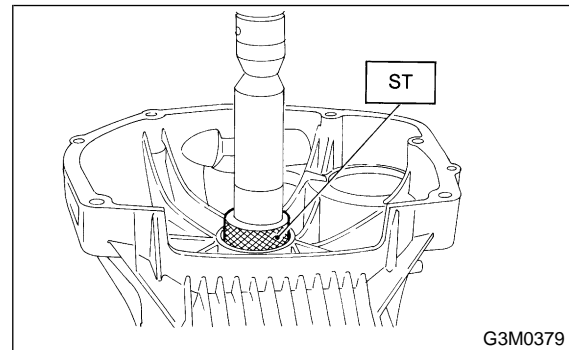
1) Check the appearance of each component and clean.

### NOTE:

Make sure each part is free of harmful cuts, damage and other faults.

2) Force-fit the oil seal to the torque converter clutch case with ST.

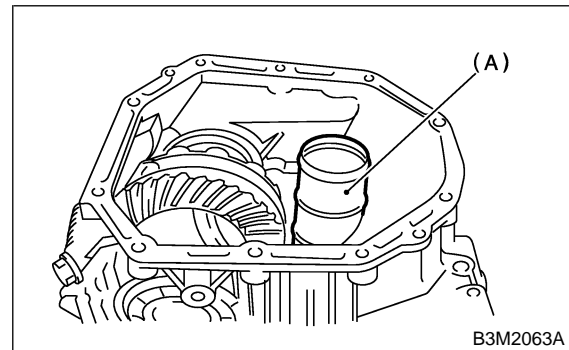
ST 398437700 DRIFT



3) Install the differential assembly to the case. <Ref. to AT-74, INSTALLATION, Front Differential.>

4) Using ST, install the left and right side retainers. <Ref. to AT-78, ADJUSTMENT, Front Differential.>  
 ST 499787000 WRENCH ASSY

5) Install the new seal pipe to the torque converter clutch case.



(A) Seal pipe

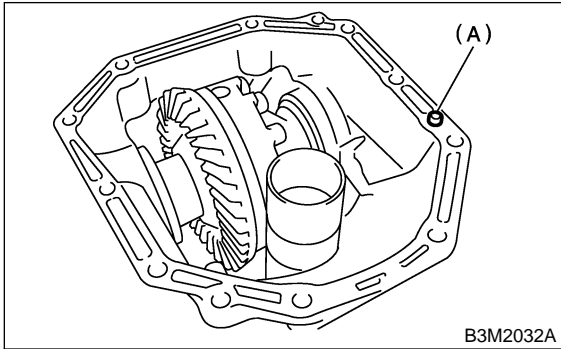
# TORQUE CONVERTER CLUTCH CASE

Automatic Transmission

6) Install the rubber seal to the torque converter clutch case.

NOTE:

Be careful not to lose the rubber seal.



(A) Rubber seal

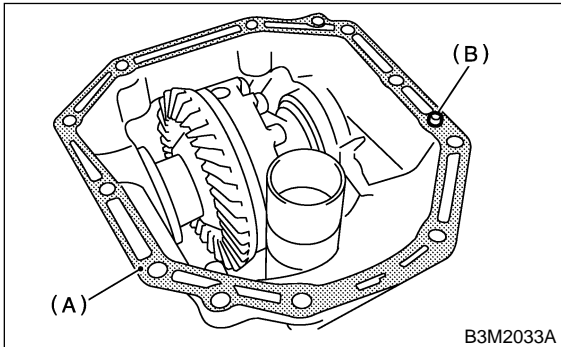
7) Apply proper amount of liquid gasket to the entire torque converter clutch case mating surface.

**Liquid gasket:**

**THREE BOND 1215**

NOTE:

Make sure that the rubber seal and seal pipe are fitted in position.



(A) THREE BOND (Part No. 1215)

(B) Rubber seal

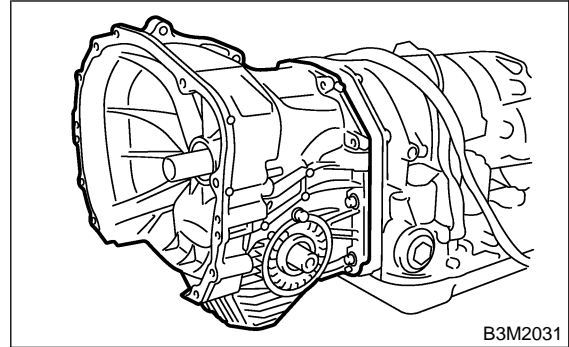
8) Install the torque converter clutch case assembly to the transmission case assembly, and secure with six bolts and four nuts.

NOTE:

When installing, be careful not to damage the torque converter clutch case bushing and oil seal.

**Tightening torque:**

**41 N·m (4.2 kgf-m, 30.4 ft-lb)**

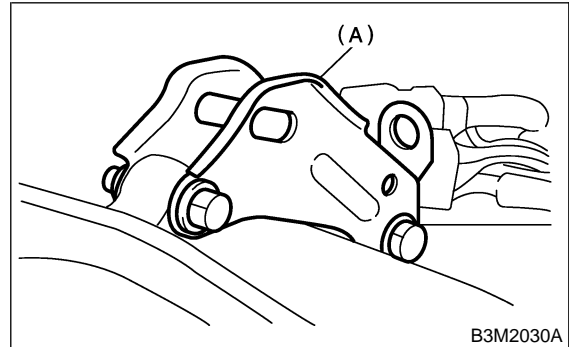


9) Install the pitching stopper bracket.

**Tightening torque:**

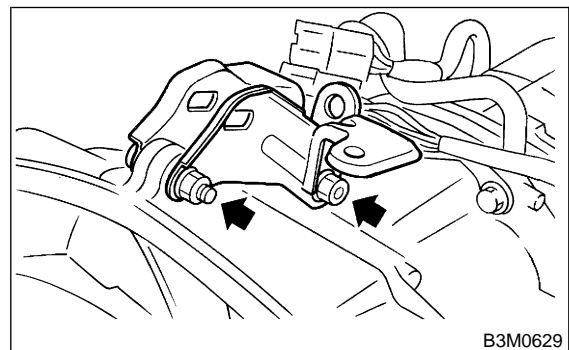
**41 N·m (4.2 kgf-m, 30.4 ft-lb)**

● 3.0 L and TURBO models



(A) Pitching stopper

● Except 3.0 L and TURBO models



10) Insert inhibitor switch and transmission connector into stay.

11) Install air breather hose. <Ref. to AT-28, INSTALLATION, Air Breather Hose.>

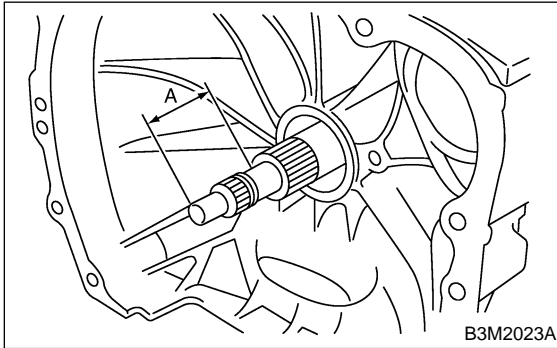
- 12) Install the oil cooler pipes. <Ref. to AT-30, INSTALLATION, Oil Cooler Pipes.>
- 13) Install the oil charger pipe with O-ring. <Ref. to AT-29, INSTALLATION, Oil Charger Pipe.>
- 14) Insert the input shaft while turning lightly by hand.

**CAUTION:**

**Be careful not to damage the bushing.**

**Normal protrusion A:**

**50 — 55 mm (1.97 — 2.17 in)**



- 15) Install the torque converter clutch assembly. <Ref. to AT-35, INSTALLATION, Torque Converter Clutch Assembly.>

**C: INSPECTION**

S510206A10

Measure the backlash and adjust to within specifications. <Ref. to AT-71, ADJUSTMENT, Drive Pinion Shaft.>