

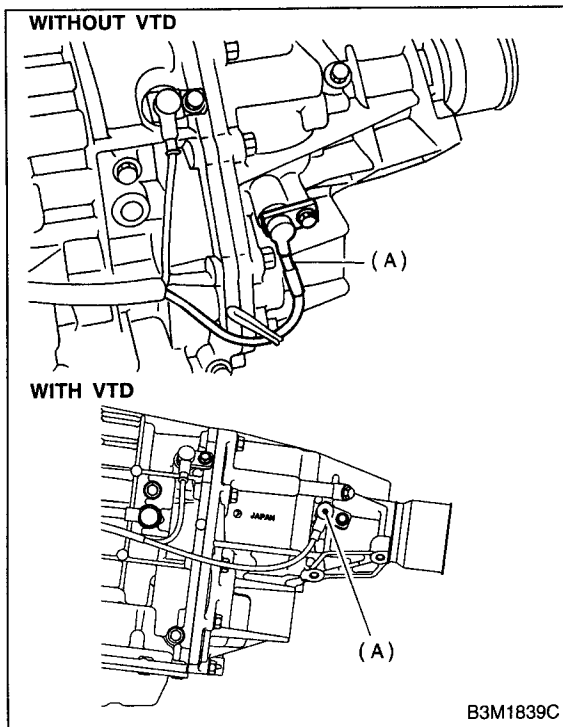
# EXTENSION CASE

Automatic Transmission

## 9. Extension Case S510587

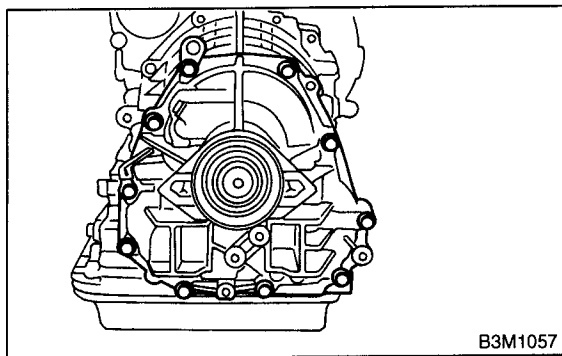
### A: REMOVAL S510587A18

- 1) Remove rear vehicle speed sensor.



(A) Rear vehicle speed sensor

- 2) Separate transmission case and extension case sections.



### B: INSTALLATION S510587A11

- 1) Attach the selected thrust needle bearing to the end surface of reduction drive gear with vaseline.

#### NOTE:

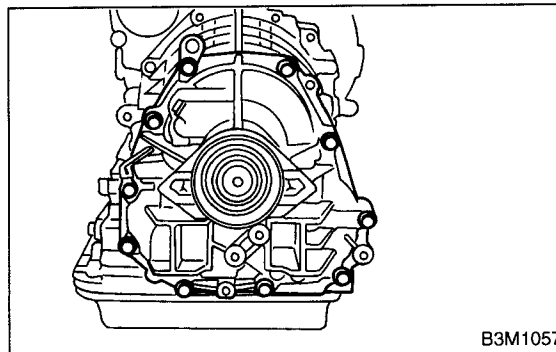
Install thrust needle bearing in the correct direction.

- 2) Install the extension case to the transmission case.

- 3) Tighten bolts to secure the case.

#### Tightening torque:

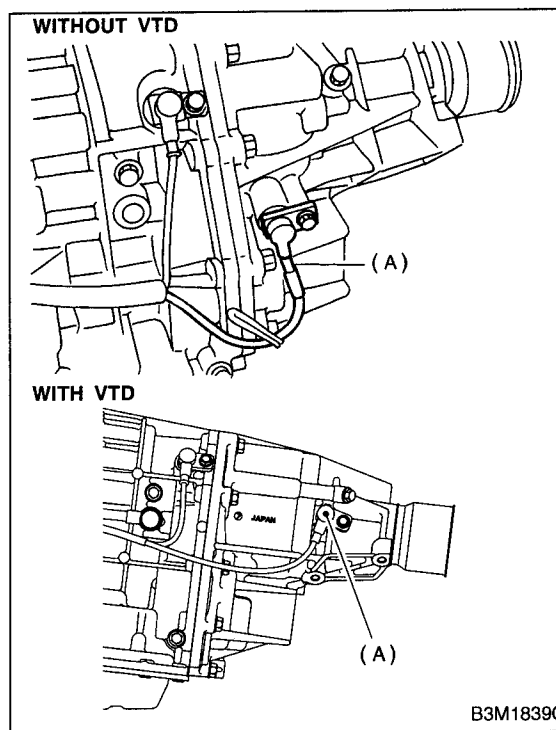
**25 N·m (2.5 kgf-m, 18.1 ft-lb)**



- 4) Install the rear vehicle speed sensor.

#### Tightening torque:

**7 N·m (0.7 kgf-m, 5.1 ft-lb)**



(A) Rear vehicle speed sensor

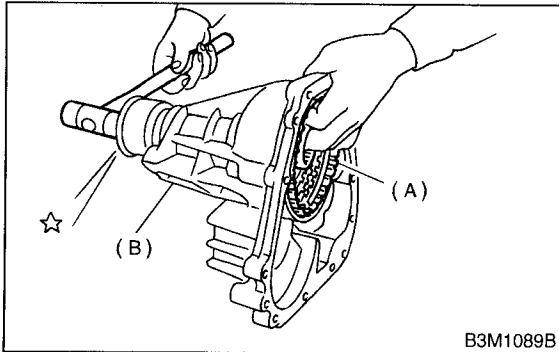
## C: DISASSEMBLY SS10587A06

### 1. WITHOUT VTD SS10587A0601

1) Take out the transfer clutch by lightly tapping the end of the rear drive shaft.

**CAUTION:**

Be careful not to damage the oil seal in the extension.

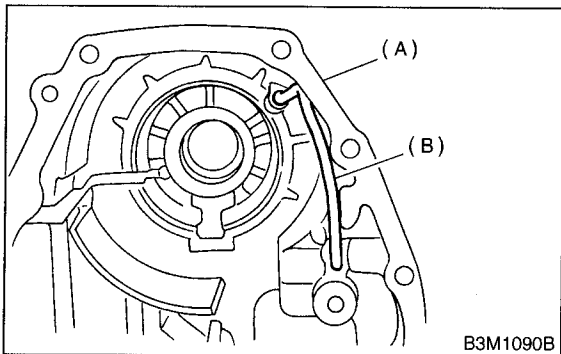


- (A) Extension case
- (B) Transfer clutch

2) Remove the transfer pipe.

**CAUTION:**

Be careful not to bend the pipe.



- (A) Extension case
- (B) Transfer pipe

3) Remove the dust cover from the extension case.

4) Remove the oil seal from the extension case.

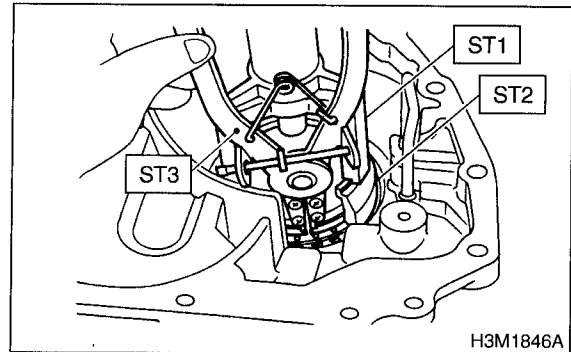
### 2. WITH VTD SS10587A0602

1) Using ST1, ST2, ST3 and a press, remove snap ring.

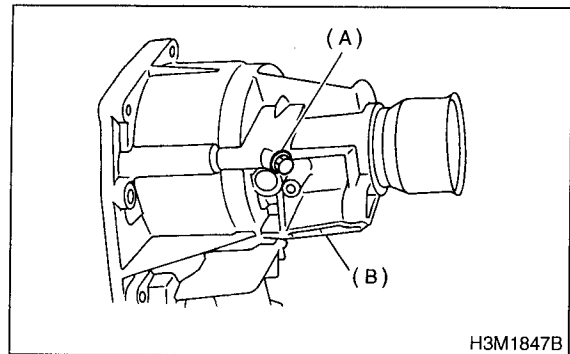
ST1 398673600 COMPRESSOR

ST2 498627100 SEAT

ST3 398663600 PLIERS

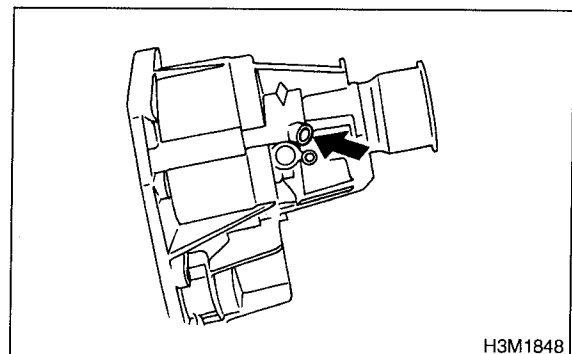


2) Remove test plug.



- (A) Extension case
- (B) Test plug

3) Remove clutch piston by compressed air.



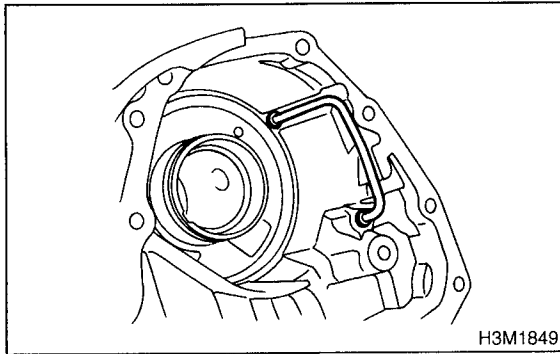
# EXTENSION CASE

Automatic Transmission

4) Remove transfer clutch pipe.

**CAUTION:**

Be careful not to bend the pipe.



5) Remove the dust cover from the extension case.

6) Remove the oil seal from the extension case.

**D: ASSEMBLY** SS10587A02

**1. WITHOUT VTD** SS10587A0201

1) Using the ST and a press, press in a new oil seal.

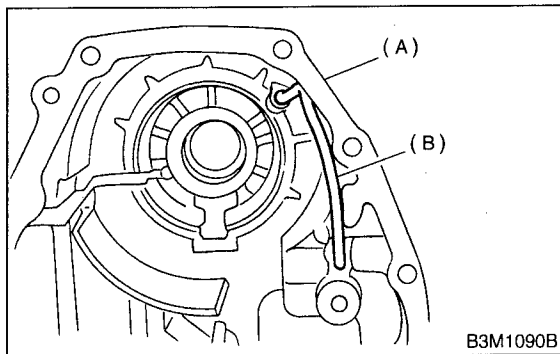
ST 498057300 INSTALLER

2) Press in the dust cover.

3) Install the transfer pipe to extension case.

**CAUTION:**

Be careful not to bend the pipe.



- (A) Extension case
- (B) Transfer pipe

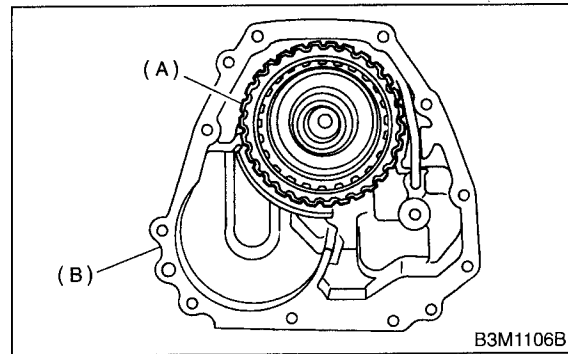
4) Install the transfer clutch assembly to the case.

**CAUTION:**

Be careful not to damage the seal rings.

**NOTE:**

Insert the clutch assembly fully into position until the bearing shoulder bottoms.



- (A) Transfer clutch
- (B) Extension case

**2. WITH VTD** SS10587A0202

1) Using the ST and a press, press in a new oil seal.

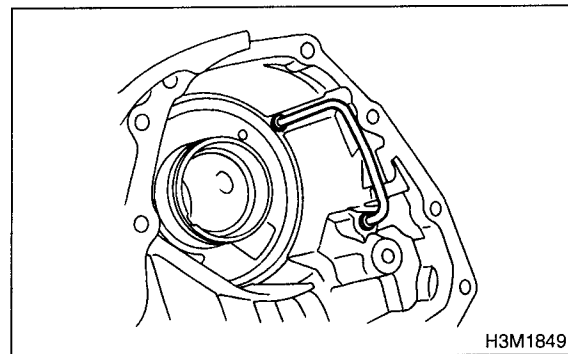
ST 498057300 INSTALLER

2) Press in the dust cover.

3) Install transfer clutch pipe.

**CAUTION:**

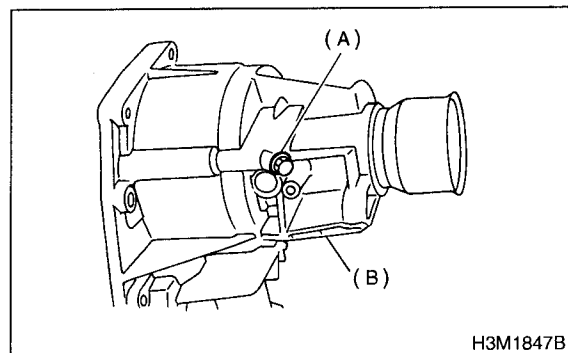
Be careful not to bend the pipe.



4) Install test plug.

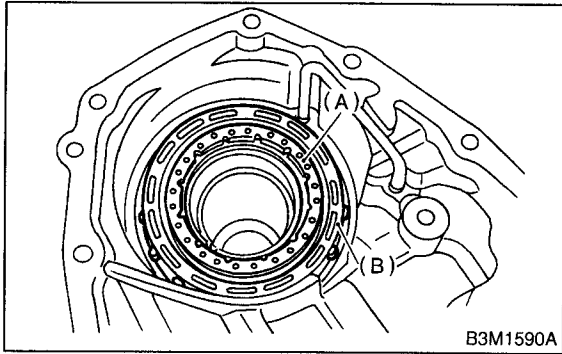
**Tightening torque:**

**13 N·m (1.3 kgf-m, 9.4 ft-lb)**



- (A) Test plug
- (B) Extension case

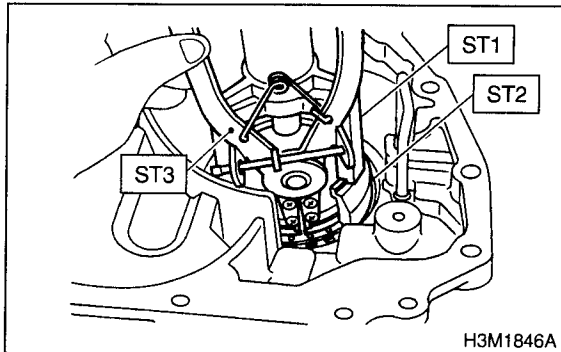
5) Insert the multi-plate clutch, the drive plate, the driven plate, and the spring retainer.



- (A) Spring retainer
- (B) Multi-plate clutch (LSD) piston ASSY

6) Using the ST1, ST2, and ST3, install the snap ring.

- ST1 398673600 COMPRESSOR
- ST2 498627100 SEAT
- ST3 398663600 PLIERS



## E: INSPECTION SS10587A10

- Use forced air to make sure the transfer pipe and extension case routes are not clogged and do not leak.

- Measure the extension end play and adjust it to within specifications.

WITHOUT VTD <Ref. to AT-44 WITHOUT VTD, ADJUSTMENT, Transfer Clutch.>

WITH VTD <Ref. to AT-44 WITH VTD, ADJUSTMENT, Transfer Clutch.>