

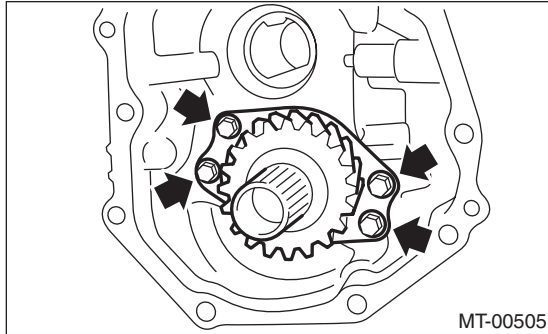
# Transfer Drive Gear

## MANUAL TRANSMISSION AND DIFFERENTIAL

### 15. Transfer Drive Gear

#### A: REMOVAL

- 1) Remove the manual transmission assembly from the vehicle. <Ref. to 6MT(TY85)-31, REMOVAL, Manual Transmission Assembly.>
- 2) Prepare the transmission for overhaul. <Ref. to 6MT(TY85)-38, Preparation for Overhaul.>
- 3) Remove the extension case. <Ref. to 6MT(TY85)-42, REMOVAL, Extension Case.>
- 4) Remove the transfer drive gear.



#### B: INSTALLATION

- 1) Install the transfer drive gear.

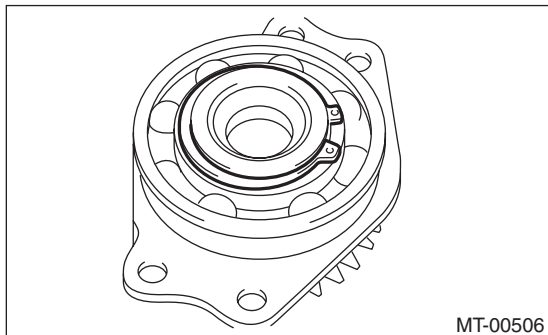
##### **Tightening torque:**

**25 N·m (2.5 kgf-m, 18.4 ft-lb)**

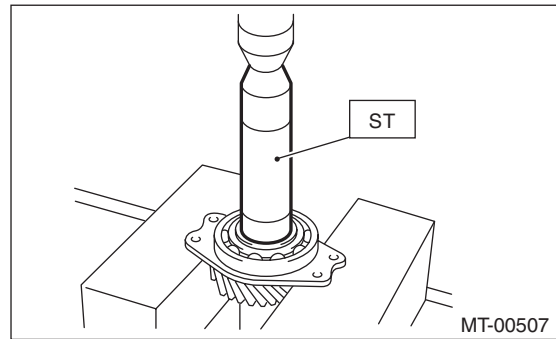
- 2) When the ball bearing, transfer drive gear or snap ring are replaced, select an appropriate adjusting washer for the transfer drive gear. <Ref. to 6MT(TY85)-43, ASSEMBLY, Extension Case.>
- 3) Install the extension case. <Ref. to 6MT(TY85)-42, INSTALLATION, Extension Case.>
- 4) Install the manual transmission assembly to the vehicle. <Ref. to 6MT(TY85)-33, INSTALLATION, Manual Transmission Assembly.>

#### C: DISASSEMBLY

- 1) Remove the snap ring.



- 2) Remove the bearing using the ST.  
ST 499877000 RACE 4-5 INSTALLER



#### D: ASSEMBLY

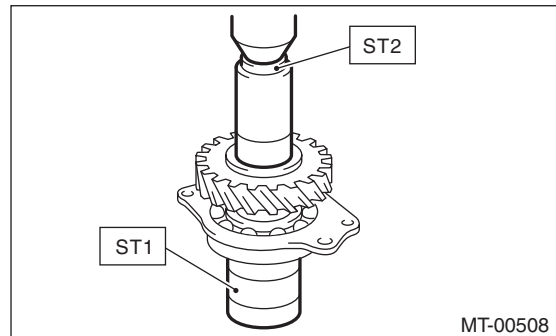
- 1) Using the ST, install the ball bearing.

##### **NOTE:**

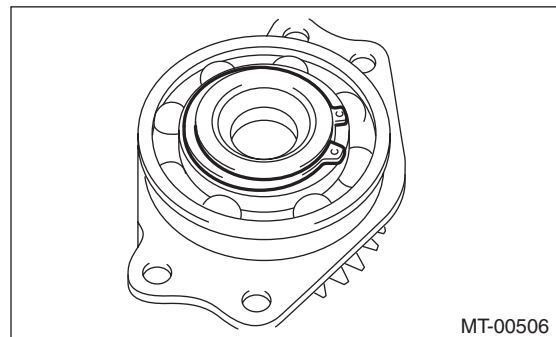
Use a new ball bearing.

ST1 499247400 INSTALLER

ST2 398497701 SEAT



- 2) Install the snap ring.



- 3) Inspect the clearance between the snap ring and the ball bearing. <Ref. to 6MT(TY85)-53, INSPECTION, Transfer Drive Gear.>

### E: INSPECTION

#### 1) Bearing

Replace the bearings in the following cases.

- Damage or rust on the bearings
- Wear, or damage
- The bearing does not rotate smoothly or an abnormal noise is emitted.

#### 2) Drive gear

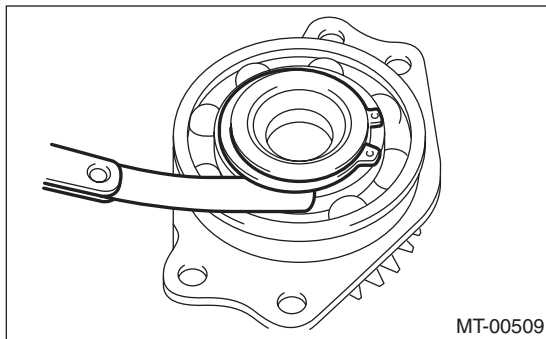
Replace the drive gear in following case:

- If the drive gear tooth surface and shaft are excessively damaged or broken.

3) Measure the clearance between the snap ring and ball bearing inner race with a thickness gauge.

**Standard clearance between the snap ring and inner race:**

**0 — 0.15 mm (0 — 0.0059 in)**



4) If the measurement is out of specifications, reselect an appropriate snap ring.

Snap ring	
Part No.	Thickness mm (in)
805045050	1.76 (0.069)
805045060	1.88 (0.074)
805045070	2.00 (0.079)

After replacing the snap ring, reinspect the clearance.