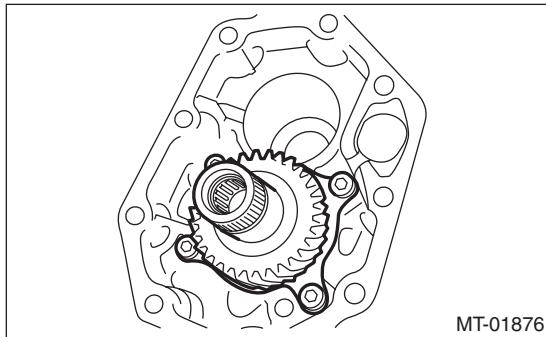


### 10. Transfer Drive Gear

#### A: REMOVAL

- 1) Remove the manual transmission assembly from the vehicle. <Ref. to 6MT-25, REMOVAL, Manual Transmission Assembly.>
- 2) Remove the back-up light switch neutral position switch. <Ref. to 6MT-37, REMOVAL, Switches and Harness.>
- 3) Remove the transfer case together with the extension case assembly. <Ref. to 6MT-40, REMOVAL, Transfer Case and Extension Case Assembly.>
- 4) Remove the extension case assembly.
- 5) Remove the transfer driven gear. <Ref. to 6MT-47, REMOVAL, Transfer Driven Gear.>
- 6) Remove the transfer drive gear.

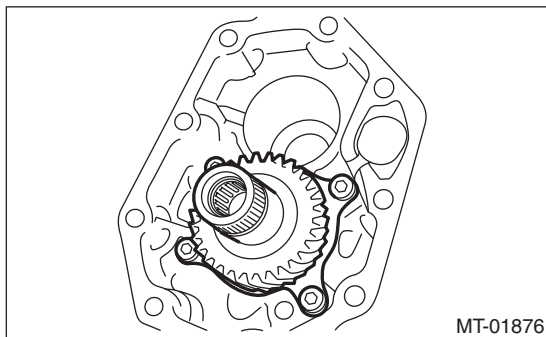


#### B: INSTALLATION

- 1) Install the transfer drive gear.

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

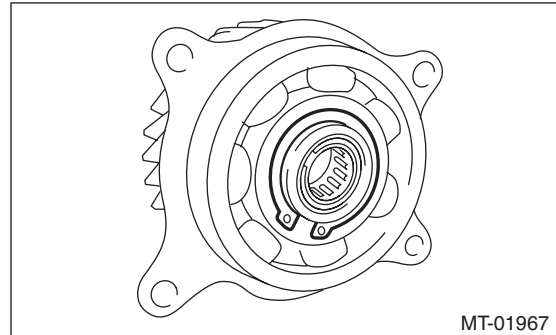
**26 N·m (2.7 kgf·m, 19.2 ft·lb)**



- 2) Install the transfer driven gear. <Ref. to 6MT-47, INSTALLATION, Transfer Driven Gear.>
- 3) Install the extension case assembly.
- 4) Install the transfer case and the extension case assembly. <Ref. to 6MT-40, INSTALLATION, Transfer Case and Extension Case Assembly.>
- 5) Install the back-up light switch neutral position switch. <Ref. to 6MT-37, INSTALLATION, Switches and Harness.>
- 6) Install the manual transmission assembly to the vehicle. <Ref. to 6MT-29, INSTALLATION, Manual Transmission Assembly.>

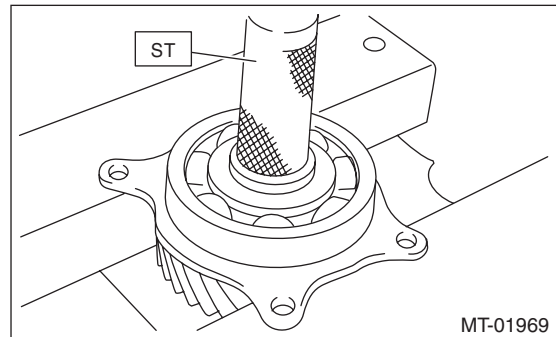
#### C: DISASSEMBLY

- 1) Remove the snap ring.



- 2) Remove the ball bearing.

ST 899864110 REMOVER



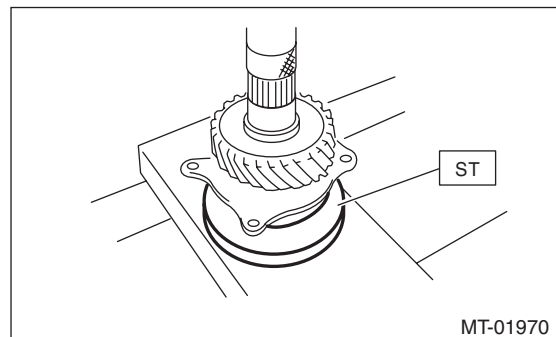
#### D: ASSEMBLY

- 1) Set the ST to the bearing inner race, then install the transfer drive shaft.

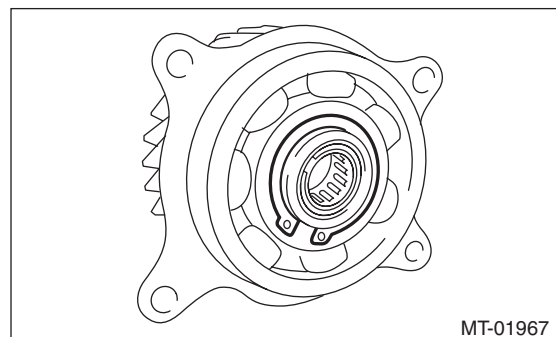
##### **CAUTION:**

**Do not apply a load in excess of 10 kN (1 ton, 1.1 US ton, 1.0 Imp ton).**

ST 398177700 INSTALLER



- 2) Install the snap ring on the transfer drive shaft.



## Transfer Drive Gear

### MANUAL TRANSMISSION AND DIFFERENTIAL

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3) Inspect the clearance between the snap ring and the ball bearing. <Ref. to 6MT-46, INSPECTION, Transfer Drive Gear.>

### E: INSPECTION

#### 1) Bearing

Replace the bearings in the following cases.

- In case of broken or rusty bearings
- In case of wear or damage
- When the bearings fail to turn smoothly or emit noise in rotation after gear oil lubrication.

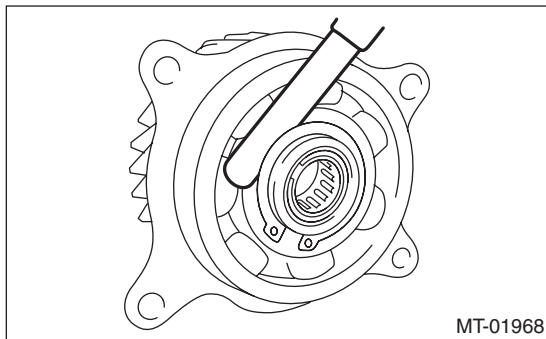
#### 2) Drive gear

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

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

#### **Clearance:**

**0.01 — 0.15 mm (0.0004 — 0.0059 in)**



If the measurement is not within specification, select a suitable snap ring and replace it.

| Snap ring (Outer-30) |                   |
|----------------------|-------------------|
| Part number          | Thickness mm (in) |
| 805030041            | 1.53 (0.0602)     |
| 805030042            | 1.65 (0.0650)     |
| 805030043            | 1.77 (0.0697)     |