

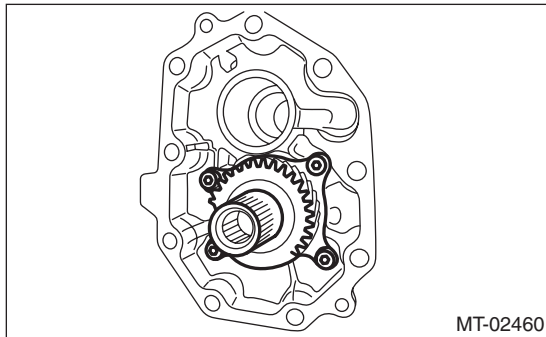
Transfer Drive Gear

MANUAL TRANSMISSION AND DIFFERENTIAL

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 and the neutral position switch. <Ref. to 6MT-35, REMOVAL, Switches and Harness.>
- 3) Remove the transfer case together with the extension case assembly. <Ref. to 6MT-37, REMOVAL, Transfer Case and Extension Case Assembly.>
- 4) Remove the extension case assembly.
- 5) Remove the transfer driven gear. <Ref. to 6MT-44, REMOVAL, Transfer Driven Gear.>
- 6) Remove the transfer drive gear.

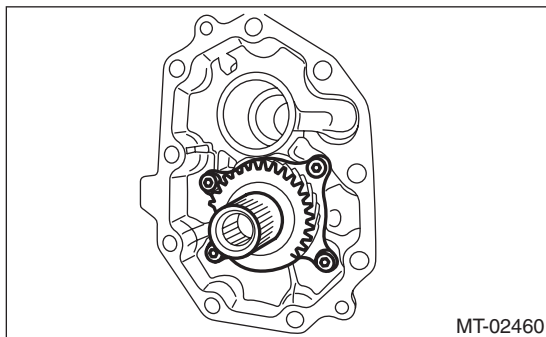


B: INSTALLATION

- 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-44, INSTALLATION, Transfer Driven Gear.>

- 3) Select a thrust washer. <Ref. to 6MT-38, INSTALLATION, Transfer Case and Extension Case Assembly.>

- 4) Install the extension case assembly. <Ref. to 6MT-38, INSTALLATION, Transfer Case and Extension Case Assembly.>

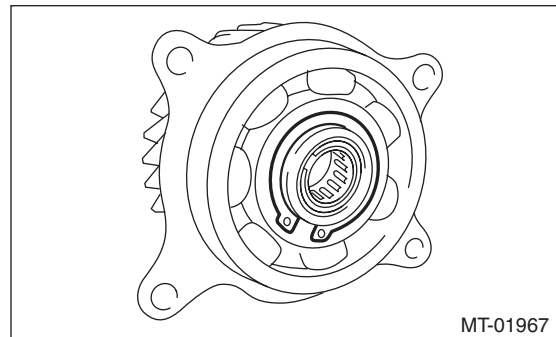
- 5) Install the transfer case and the extension case assembly. <Ref. to 6MT-38, INSTALLATION, Transfer Case and Extension Case Assembly.>

- 6) Install the back-up light switch and the neutral position switch. <Ref. to 6MT-35, INSTALLATION, Switches and Harness.>

- 7) Install the manual transmission assembly to the vehicle. <Ref. to 6MT-28, INSTALLATION, Manual Transmission Assembly.>

C: DISASSEMBLY

- 1) Remove the snap ring.

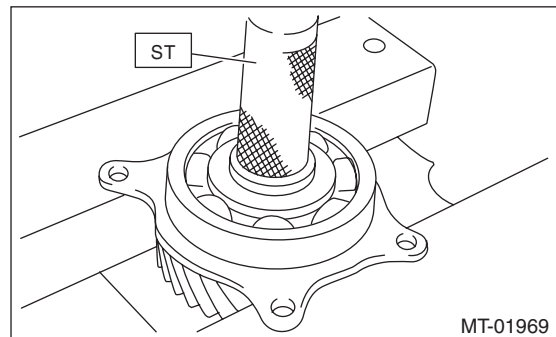


- 2) Remove the ball bearing.

NOTE:

Do not reuse the ball bearing.

ST 899864110 REMOVER



- 3) Remove the snap ring from transfer drive gear, and remove the needle bearing.

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D: ASSEMBLY

- 1) Install the needle bearing and snap ring to the transfer drive gear.
- 2) Set the ST to the bearing inner race, then install the transfer drive gear to the bearing.

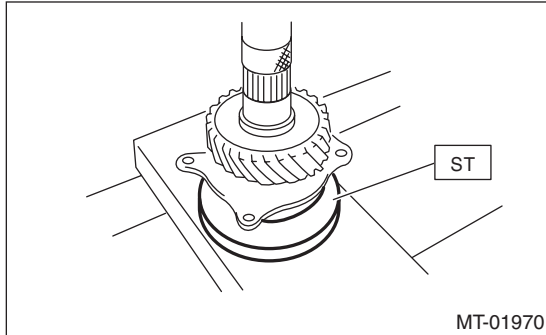
CAUTION:

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

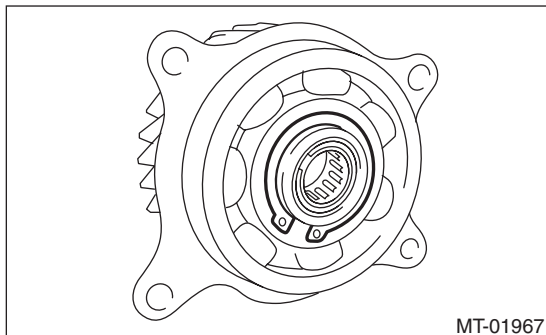
NOTE:

Use a new ball bearing.

ST 398177700 INSTALLER



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



- 4) Inspect the clearance between the snap ring and the ball bearing. <Ref. to 6MT-43, 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.

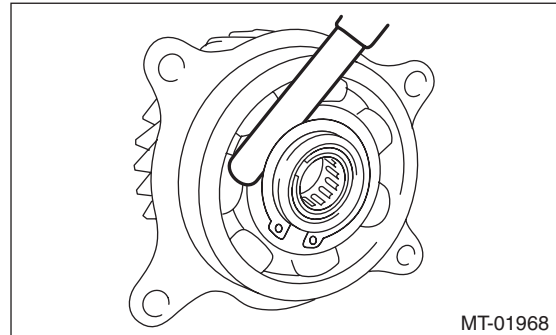
- 2) Drive gear

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 No.	Thickness mm (in)
805030041	1.53 (0.0602)
805030042	1.65 (0.0650)
805030043	1.77 (0.0697)