

22. Differential Case Assembly

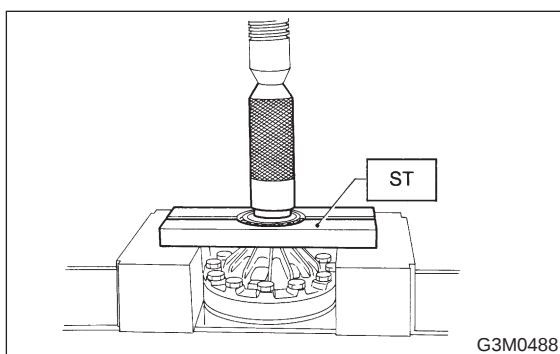
A: DISASSEMBLY

1) Using a press and ST, remove the taper roller bearing.

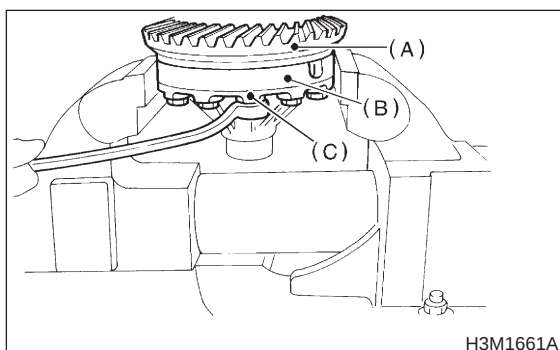
ST 498077000 REMOVER

CAUTION:

Be careful not to damage the speedometer drive gear.

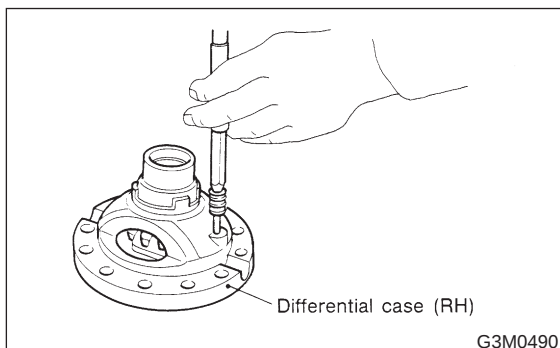


2) Secure the case in a vise and remove the hypoid driven gear tightening bolts, then separate the crown gear, case (RH) and case (LH).



- (A) Hypoid driven gear
- (B) Differential case (RH)
- (C) Differential case (LH)

3) Pull out the straight pin and shaft, and remove the differential bevel gear, washer, and differential bevel pinion.



B: INSPECTION

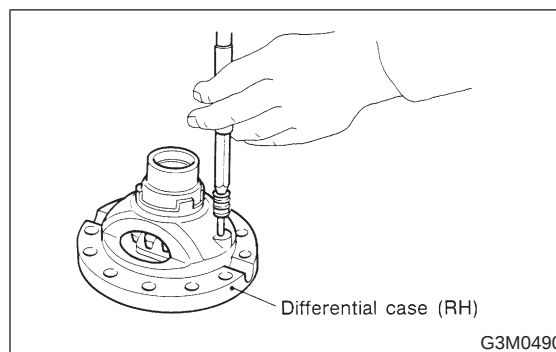
Check each component for harmful cuts, damage and other faults.

C: ASSEMBLY

1) Install the washer, differential bevel gear and differential bevel pinion in the differential case (RH). Insert the pinion shaft, and fit the straight pin.

NOTE:

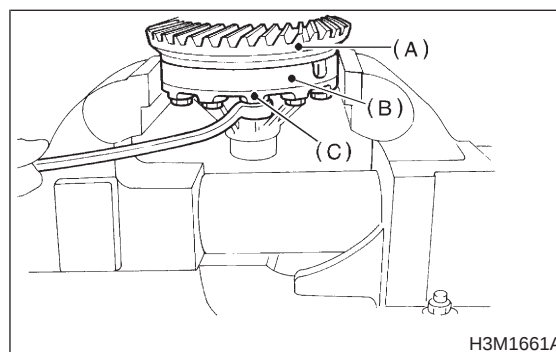
Install straight pin from reverse direction.



2) Install the washer and differential bevel gear to the differential case (LH). Then put the case over the differential case (RH), and connect both cases.
3) Install the hypoid driven gear and secure by tightening the bolt.

Standard tightening torque:

$62 \pm 5 \text{ N}\cdot\text{m}$ ($6.3 \pm 0.5 \text{ kg}\cdot\text{m}$, $45.6 \pm 3.6 \text{ ft}\cdot\text{lb}$)



- (A) Hypoid driven gear
- (B) Differential case (RH)
- (C) Differential case (LH)

4) Measurement of backlash (Selection of washer)
Measure the gear backlash with ST1 and ST2, and insert ST2 through the access window of the case.

NOTE:

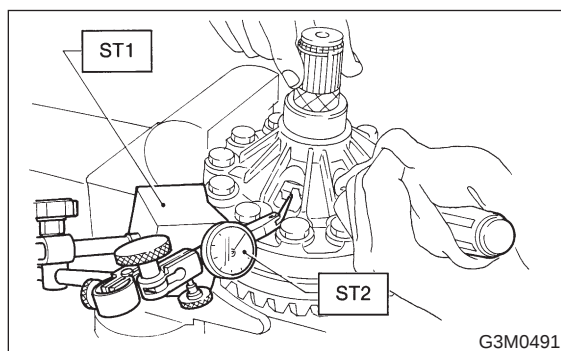
Measure the backlash by applying a pinion tooth between two bevel gear teeth.

ST1 498247001 MAGNET BASE

ST2 498247100 DIAL GAUGE

Standard value:

0.13 — 0.18 mm (0.0051 — 0.0071 in)

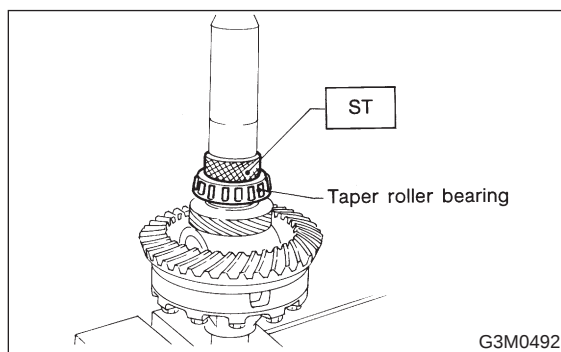


5) Install the speedometer drive gear. Then force-fit the taper roller bearing with a press and ST.

CAUTION:

Be sure to position correctly the locking end of the speedometer drive gear.

ST 398487700 DRIFT



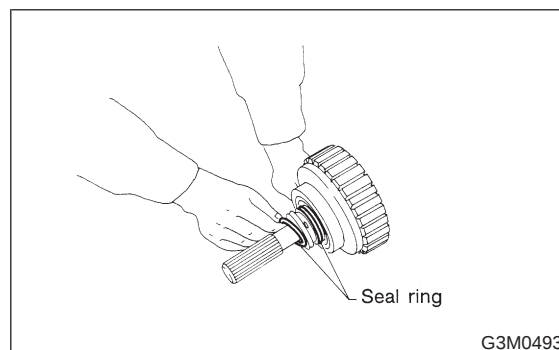
23. Transfer Clutch

A: DISASSEMBLY

1) Remove the seal ring.

CAUTION:

Be careful not to damage the seal ring.

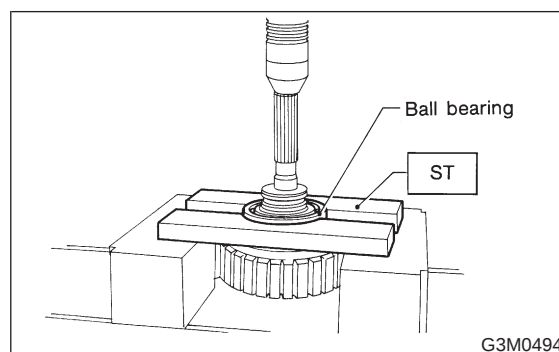


2) Using a press and ST, remove the ball bearing.

CAUTION:

Do not reuse the bearing.

ST 498077000 REMOVER



3) Remove the snap ring, and take out the pressure plate, drive plates, and driven plates.

