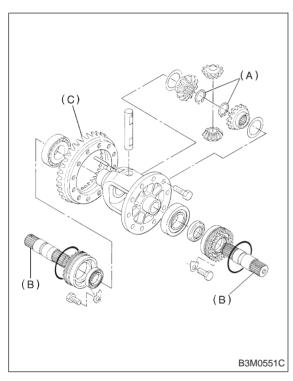
6. Front DifferentialA: DISASSEMBLY

1) Remove right and left snap rings from differential, and then remove two axle drive shafts.

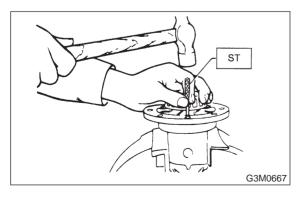
NOTE:

During reassembly, reinstall each axle drive shaft in the same place from which it was removed.

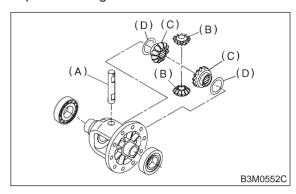
2) Loosen twelve bolts and remove hypoid drive gear.



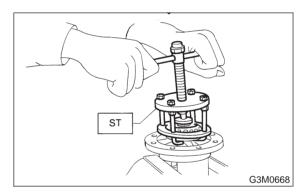
- (A) Snap ring
- (B) Axle drive shaft
- (C) Hypoid drive gear
- 3) Drive out straight pin from differential assembly toward hypoid driven gear.
- ST 899904100 REMOVER



4) Pull out pinion shaft, and remove differential bevel pinion and gear and washer.



- (A) Pinion shaft
- (B) Bevel pinion
- (C) Bevel gear
- (D) Washer
- 5) Remove roller bearing using ST.
- ST 399527700 PULLER SET

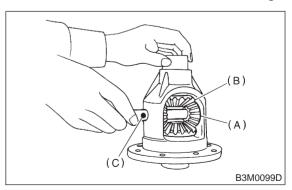


B: ASSEMBLY

1) Install bevel gear and bevel pinion together with washers, and insert pinion shaft.

NOTE:

Face the chamfered side of washer toward gear.



- (A) Bevel pinion
- (B) Bevel gear
- (C) Pinion shaft

SERVICE PROCEDURE

2) Measure backlash between bevel gear and pinion. If it is not within specifications, install a suitable washer to adjust it.

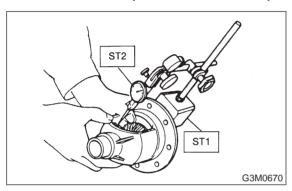
NOTE:

Be sure the pinion gear tooth contacts adjacent gear teeth during measurement.

ST1 498247001 MAGNET BASE ST2 498247100 DIAL GAUGE

Standard backlash:

0.13 — 0.18 mm (0.0051 — 0.0071 in)



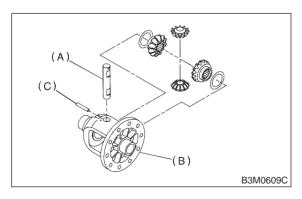
Washer (38.1 \times 50 \times t)	
Part No.	Thickness mm (in)
803038021	0.925 — 0.950 (0.0364 — 0.0374)
803038022	0.975 — 1.000 (0.0384 — 0.0394)
803038023	1.025 — 1.050 (0.0404 — 0.0413)

3) Align pinion shaft and differential case at their holes, and drive straight pin into holes from the hypoid driven gear side, using ST.

NOTE:

Lock straight pin after installing.

ST 899904100 REMOVER



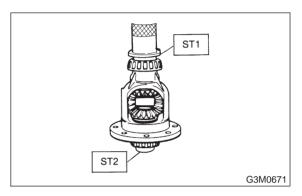
- (A) Pinion shaft
- (B) Differential case
- (C) Straight pin

4) Install roller bearing $(40 \times 80 \times 19.75)$ to differential case.

NOTE:

Be careful because roller bearing outer races are used as a set.

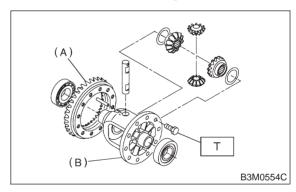
ST1 499277100 BUSH 1-2 INSTALLER ST2 398497701 ADAPTER



5) Install hypoid driven gear to differential case using twelve bolts.

Tightening torque:

T: 62±5 N·m (6.3±0.5 kg-m, 45.6±3.6 ft-lb)



- (A) Hypoid driven gear
- (B) Differential case

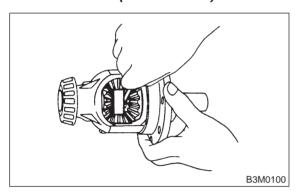
6) Position drive axle shaft in differential case and hold it with outer snap ring (28). Using a thickness gauge, measure clearance between the shaft and case is within specifications.

NOTE:

If it is not within specifications, replace snap ring with a suitable one.

Clearance:

0 - 0.2 mmm (0 - 0.008 in)



Snap ring (Outer-28)	
Part No.	Thickness mm (in)
805028011	1.05 (0.0413)
805028012	1.20 (0.0472)

7. Center Differential

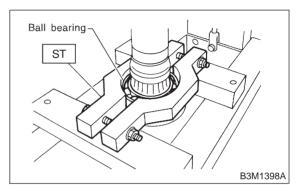
A: DISASSEMBLY AND ASSEMBLY

1) Remove ball bearing using ST.

CAUTION:

Do not reuse ball bearing.

ST 498077300 CENTER DIFFERENTIAL BEARING REMOVER



2) Install ball bearing to center differential assembly.

NOTE:

Do not disassemble center differential because it is a non-disassemble part.

