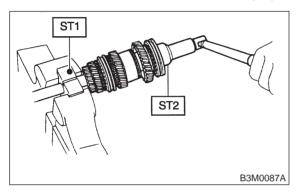
4. Main Shaft Assembly A: DISASSEMBLY

- 1) Put vinyl tape around main shaft splines to protect oil seal from damage. Then pull out oil seal and needle bearing by hand.
- 2) Remove lock nut from transmission main shaft assembly.

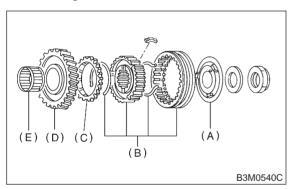
NOTE:

Remove caulking before taking off lock nut.

ST1 498937000 TRANSMISSION HOLDER ST2 499987003 SOCKET WRENCH (35)



3) Remove insert stopper plate, sleeve and hub assembly No. 2, baulk ring, 5th drive gear, and needle bearing.



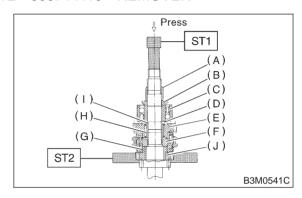
- (A) Insert stopper plate
- (B) Sleeve and hub assembly No. 2
- (C) Baulk ring
- (D) 5th drive gear
- (E) Needle bearing $(32 \times 36 \times 25.7)$

4) Using ST1 and ST2, remove the rest of parts.

NOTE:

Replace sleeve and hub with new ones. Do not attempt to disassemble because they must engage at a specified point. If they should be disassembled, mark engagement point on splines beforehand.

ST1 899864100 REMOVER ST2 899714110 REMOVER



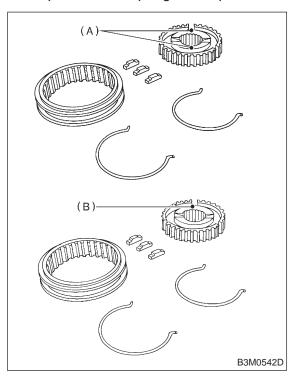
- (A) 5th needle bearing inner race
- (B) 5th gear thrust washer
- (C) Ball bearing $(25.5 \times 65 \times 31)$
- (D) 4th gear thrust washer
- (E) 4th drive gear
- (F) Sleeve and hub assembly
- (G) Baulk ring
- (H) 4th needle bearing
- (I) 4th needle bearing inner race
- (J) 3rd drive gear

B: ASSEMBLY

1) Assemble sleeve and hub assembly for 3rd-4th and, 5th and high-low synchronizing.

NOTE:

Position open ends of spring 120° apart.



- (A) Two holes for discrimination (3rd-4th hub)
- (B) One hole for discrimination (5th hub)
- 2) Install 3rd drive gear, baulk ring, and sleeve and hub assembly for 3rd-4th needle bearing (32 \times 36 \times 25.7) on transmission main shaft.

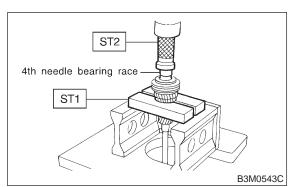
NOTE:

Align groove in baulk ring with shifting insert.

3) Install 4th needle bearing race onto transmission main shaft using ST1, ST2 and a press.

ST1 899714110 REMOVER

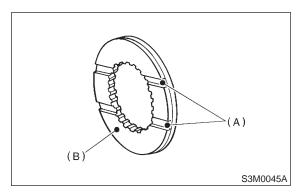
ST2 499877000 RACE 4-5 INSTALLER



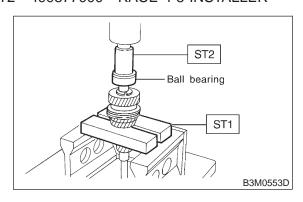
4) Install baulk ring, needle bearing (32 \times 30 \times 25.7), 4th drive gear and 4th gear thrust washer to transmission main shaft.

NOTE:

Face thrust washer in the correct direction.



- (A) Groove
- (B) 4th gear thrust washer
- 5) Drive ball bearing onto the rear section of transmission main shaft using ST1, ST2 and a press. ST1 899714110 REMOVER ST2 499877000 RACE 4-5 INSTALLER



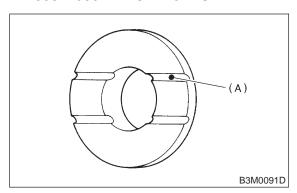
6) Using the same tools as in step 5) above, install the 5th gear thrust washer and 5th needle bearing race onto the rear section of transmission main shaft.

NOTE:

Face thrust washer in the correct direction.

ST1 899714110 REMOVER

ST2 499877000 RACE 4-5 INSTALLER



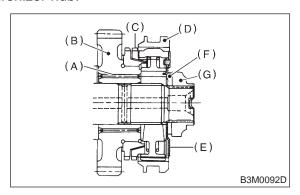
- (A) Face this surface to 5th gear side.
- 7) Install the following parts to the rear section of transmission main shaft.

CAUTION:

Replace lock nut and lock nut washer with new ones.

NOTE:

- Align groove in baulk ring with shifting insert.
- Be sure to fit pawl of insert stopper plate into 4 mm (0.16 in) dia. hole in the boss section of synchronizer hub.



- (A) Needle bearing $(32 \times 36 \times 25.7)$
- (B) 5th drive gear
- (C) Baulk ring
- (D) Sleeve and hub assembly
- (E) Insert stopper plate
- (F) Lock nut washer $(22 \times 38 \times 2)$
- (G) Lock nut
- 8) Tighten lock nuts (22 \times 13) to the specified torque using ST1 and ST2.

NOTE:

Secure lock nuts in two places after tightening.

ST1 499987003 SOCKET WRENCH (35) ST2 498937000 TRANSMISSION HOLDER

Tightening torque:

118±6 N·m (12.0±0.6 kg-m, 86.8±4.3 ft-lb)