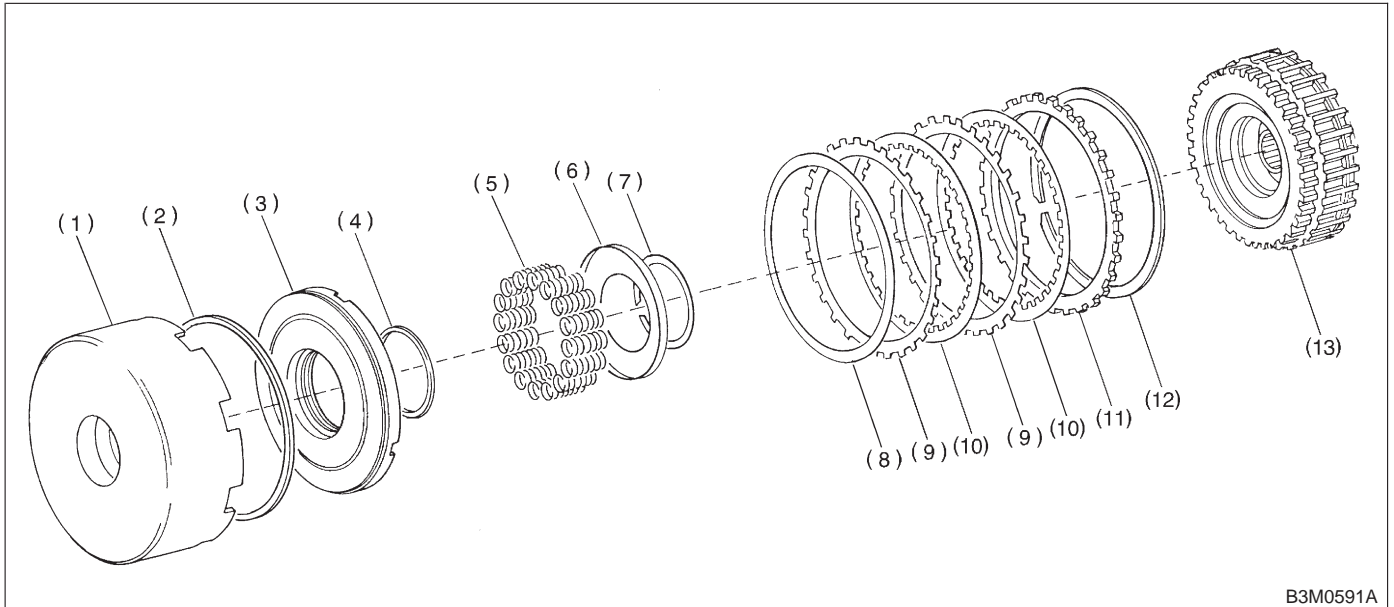


## 17. Reverse Clutch

### A: DISASSEMBLY



B3M0591A

- |                           |                     |                       |
|---------------------------|---------------------|-----------------------|
| (1) Reverse clutch drum   | (6) Spring retainer | (11) Retaining plate  |
| (2) Lip seal              | (7) Snap ring       | (12) Snap ring        |
| (3) Reverse clutch piston | (8) Dish plate      | (13) High clutch drum |
| (4) Lathe cut seal ring   | (9) Driven plate    |                       |
| (5) Spring                | (10) Drive plate    |                       |

1) Remove the snap ring, and take out the retaining plate, drive plates, driven plates, and dish plate.

2) Using the ST1, ST2 and ST3, remove the snap ring and take out the spring retainer and springs.

ST1 398673600 COMPRESSOR

ST2 398177700 INSTALLER

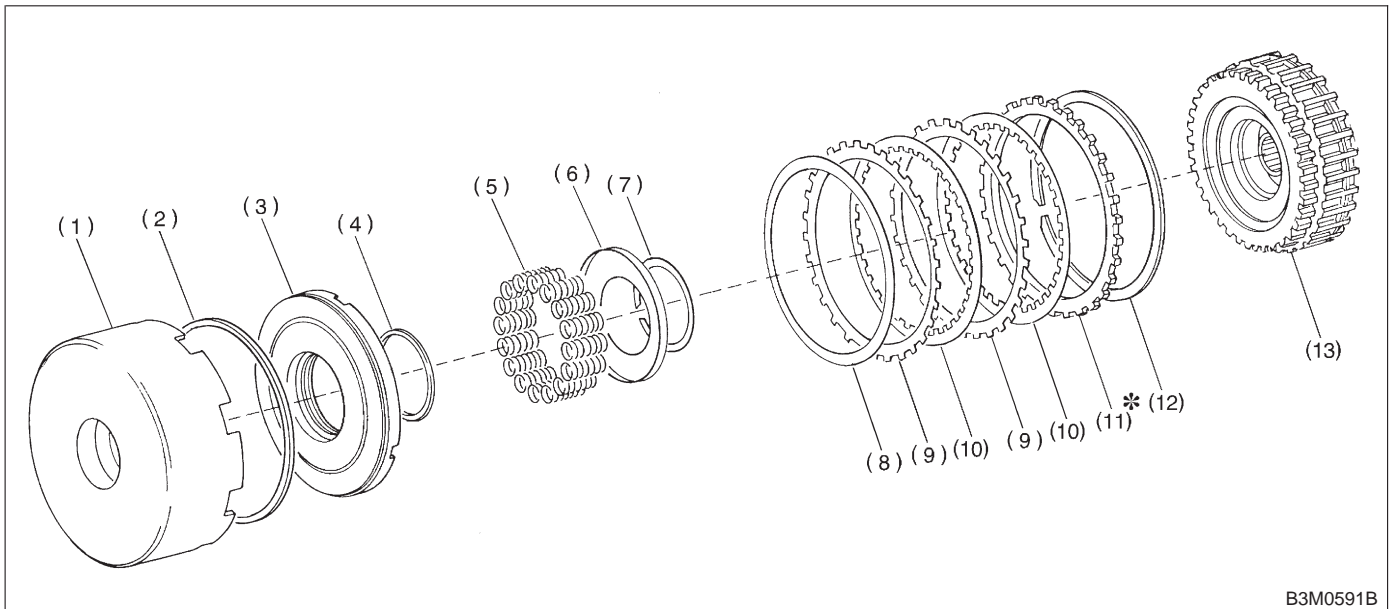
ST3 399893600 PLIERS

3) Take out the piston by applying compressed air.

### B: INSPECTION

- 1) Drive plate facing for wear and damage
- 2) Snap ring for wear, return spring for breakage or setting, and spring retainer for deformation
- 3) Lip seal and lathe cut seal ring for damage
- 4) Piston check ball for operation

**C: ASSEMBLY**



B3M0591B

- |                           |                     |                       |
|---------------------------|---------------------|-----------------------|
| (1) Reverse clutch drum   | (6) Spring retainer | (11) Retaining plate  |
| (2) Lip seal              | (7) Snap ring       | (12) Snap ring        |
| (3) Reverse clutch piston | (8) Dish plate      | (13) High clutch drum |
| (4) Lathe cut seal ring   | (9) Driven plate    |                       |
| (5) Spring                | (10) Drive plate    |                       |

1) Using the ST1, ST2 and ST3 as those used in disassembling, assemble piston the springs, spring retainer and snap ring.

ST1 398673600 COMPRESSOR

ST2 398177700 INSTALLER

ST3 399893600 PLIERS

2) Assemble the dish plate, driven plates, drive plates and retaining plate in that order and attach the snap ring.

NOTE:

Pay attention to the orientation of the dish plate.

3) Checking operation:

Apply compressed air intermittently to the oil hole, and check the reverse clutch for smooth operation.

4) Measuring clearance (Retaining plate selection):

NOTE:

Before measuring clearance, place the same thickness of shim on both sides to prevent retaining plate from tilting.

**Standard value:**

**0.5 — 0.8 mm (0.020 — 0.031 in)**

**Allowable limit:**

**1.2 mm (0.047 in)**

Available retaining plates	
Part No.	Thickness mm (in)
31567AA350	4.6 (0.181)
31567AA360	4.8 (0.189)
31567AA370	5.0 (0.197)
31567AA380	5.2 (0.205)
31567AA390	5.4 (0.213)
31567AA400	5.6 (0.220)