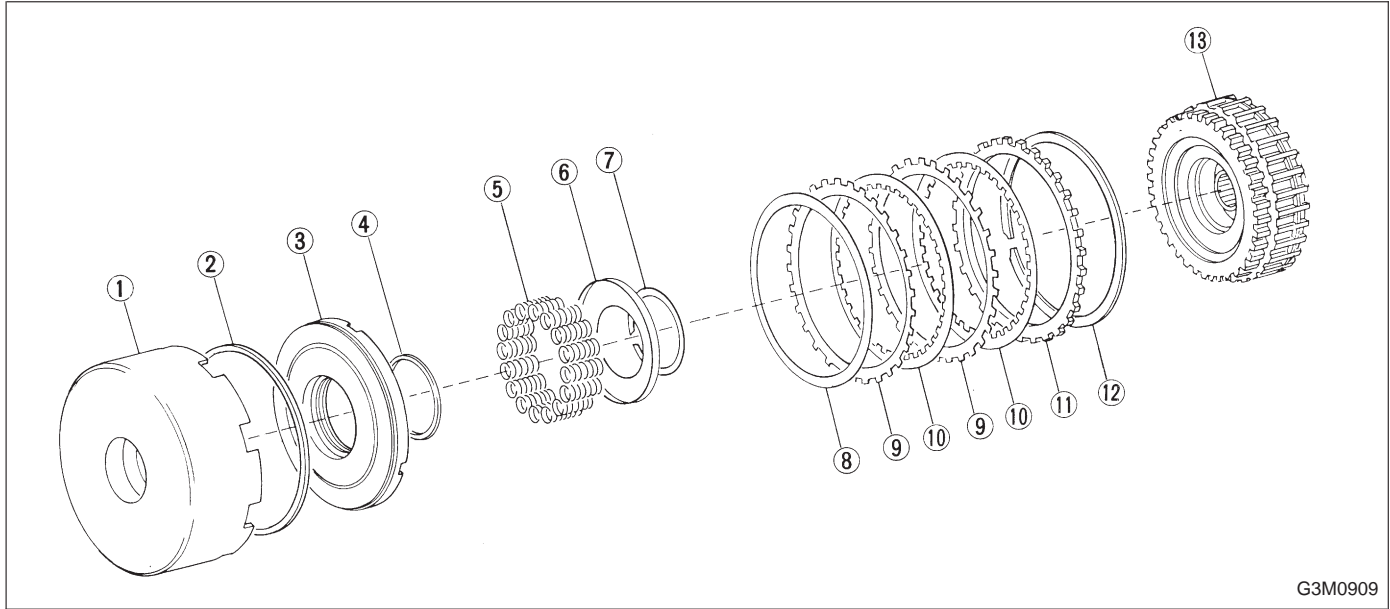


9. Reverse Clutch



G3M0909

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

A: DISASSEMBLY

- 1) Remove the snap ring ⑫, and take out the retaining plate ⑪, drive plates ⑩, driven plates ⑨, and dish plate ⑧.
- 2) Using the ST1, ST2 and ST3, remove the snap ring ⑦ and take out the spring retainer ⑥ and spring ⑤.

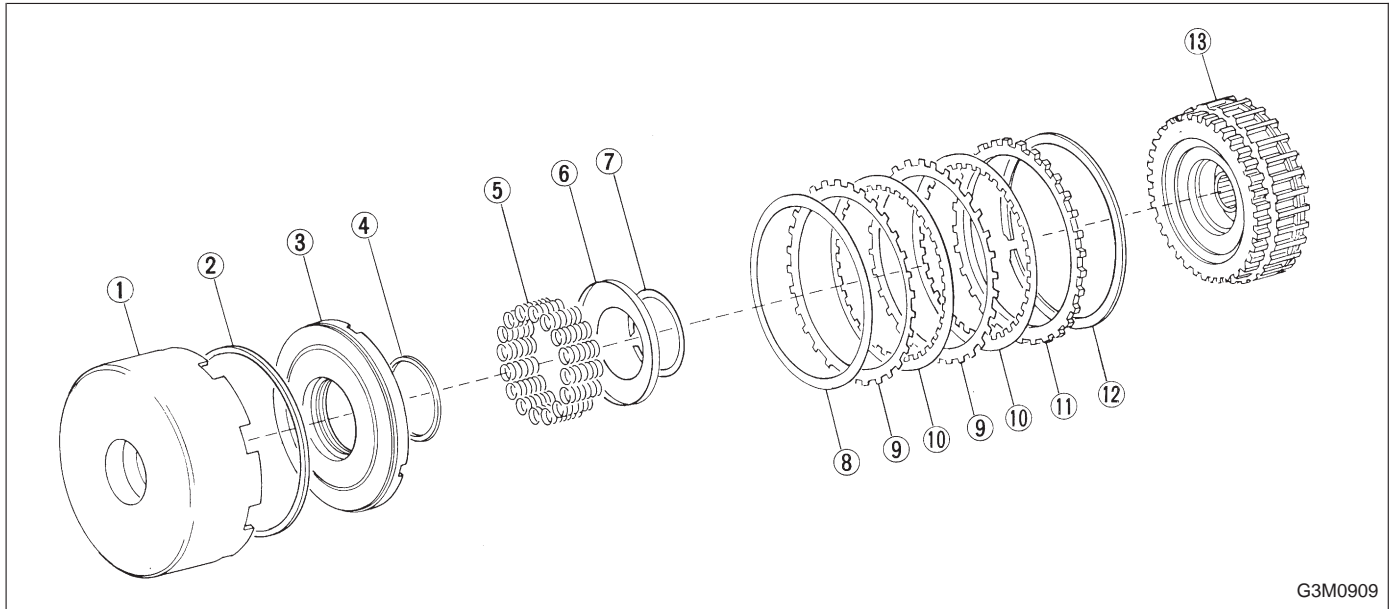
ST1 398673600 COMPRESSOR
 ST2 398177700 INSTALLER
 ST3 399893600 PLIERS

- 3) Take out the piston ③ 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



G3M0909

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

1) Using the ST1, ST2 and ST3 as those used in disassembling, assemble piston ③ the return spring ⑤, spring retainer ⑥ and snap ring ⑦.

- ST1 398673600 COMPRESSOR
- ST2 398177700 INSTALLER
- ST3 399893600 PLIERS

2) Assemble the dish plate ⑧, driven plates ⑨, drive plates ⑩ and retaining plate ⑪ in that order and attach the snap ring ⑫.

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)

Standard value:

0.5 — 0.8 mm (0.020 — 0.031 in)

Allowable limit:

1.2 mm (0.047 in)

NOTE:

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

	Part No.	Thickness mm (in)
● Available retaining plates	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)