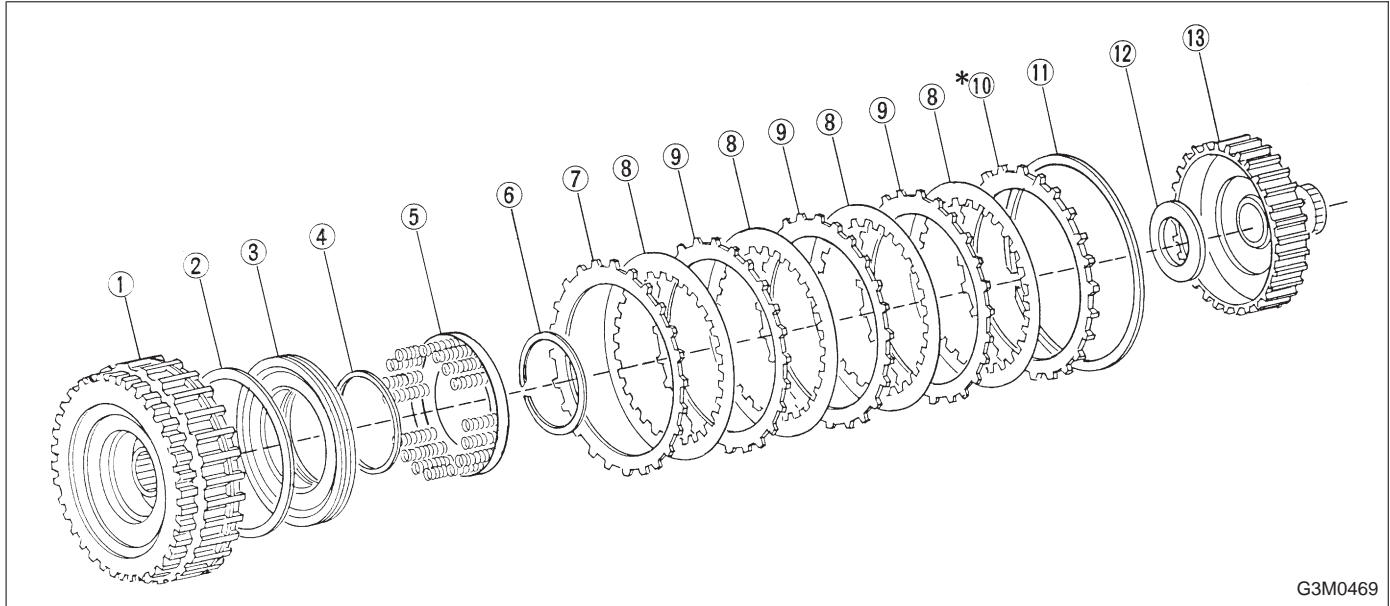


## 10. High Clutch



G3M0469

- |                          |                          |
|--------------------------|--------------------------|
| ① High clutch drum       | ⑧ Drive plate            |
| ② Lathe cut seal ring    | ⑨ Driven plate (Thicker) |
| ③ High clutch piston     | ⑩ Retaining plate        |
| ④ Lathe cut seal ring    | ⑪ Snap ring              |
| ⑤ Spring retainer        | ⑫ Thrust needle bearing  |
| ⑥ Snap ring              | ⑬ High clutch hub        |
| ⑦ Driven plate (Thinner) |                          |

### A: DISASSEMBLY

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

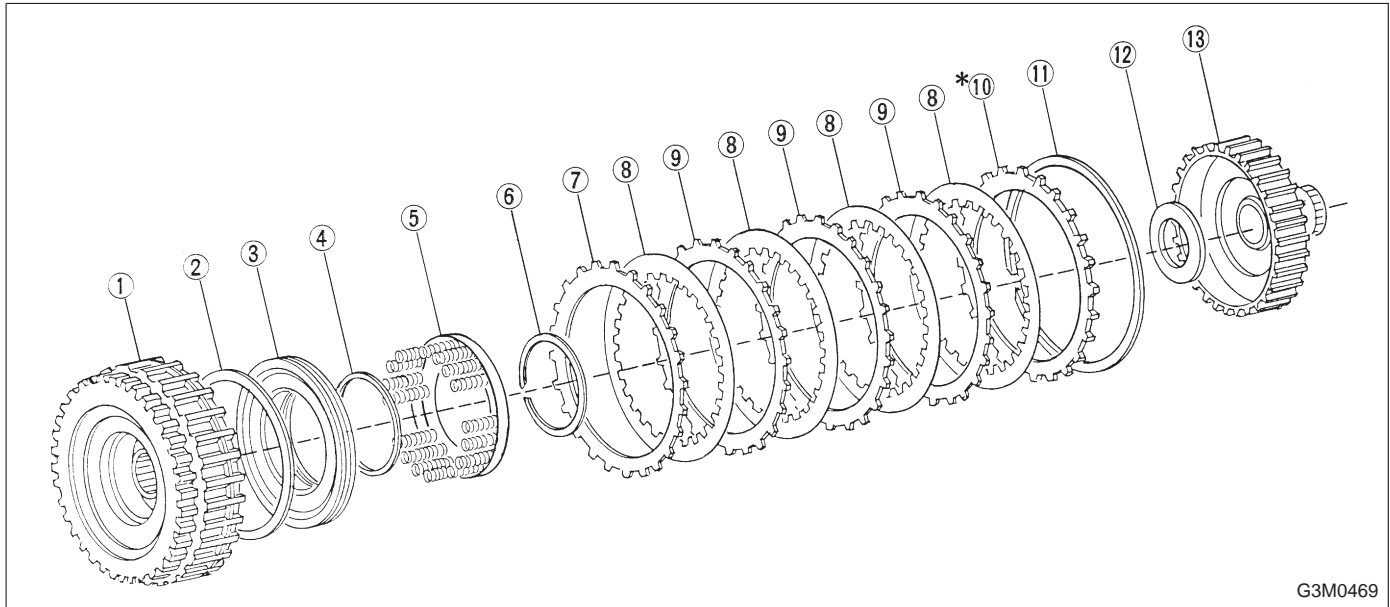
ST1 398673600 COMPRESSOR  
 ST2 398177700 INSTALLER  
 ST3 399893600 PLIERS

- 3) Apply compressed air to the clutch drum ① to remove the piston ③.

### B: INSPECTION

- 1) Drive plate facing for wear and damage
- 2) Snap ring for wear, return spring for setting and breakage, and spring retainer for deformation
- 3) Lathe cut rings (large) (small) for damage
- 4) Piston check ball for smooth operation

## C: ASSEMBLY



G3M0469

- |                          |                          |
|--------------------------|--------------------------|
| ① High clutch drum       | ⑧ Drive plate            |
| ② Lathe cut seal ring    | ⑨ Driven plate (Thicker) |
| ③ High clutch piston     | ⑩ Retaining plate        |
| ④ Lathe cut seal ring    | ⑪ Snap ring              |
| ⑤ Spring retainer        | ⑫ Thrust needle bearing  |
| ⑥ Snap ring              | ⑬ High clutch hub        |
| ⑦ Driven plate (Thinner) |                          |

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

ST1 398673600 COMPRESSOR

ST2 398177700 INSTALLER

ST3 399893600 PLIERS

2) Install the driven plate (thinner) ⑦, drive plates ⑧, driven plates (thicker) ⑨, and retaining plate ⑩ in that order. Then attach the snap ring ⑪.

3) Checking operation:

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

4) Measuring clearance (Retaining plate selection)

**Standard value:**

**1.8 — 2.2 mm (0.071 — 0.087 in)**

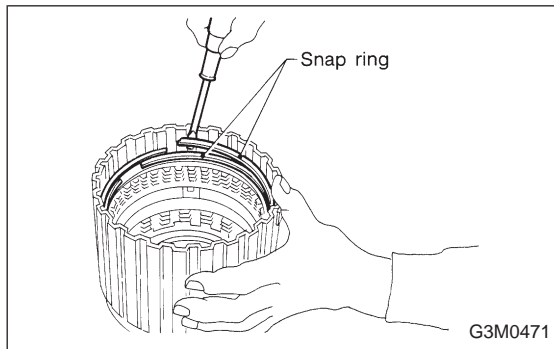
**Allowable limit:**

**2.6 mm (0.102 in)**

NOTE:

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

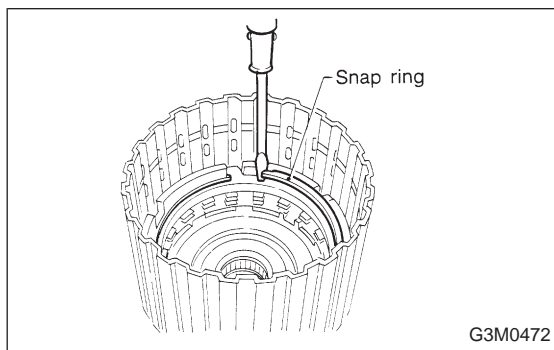
	Part No.	Thickness mm (in)
	<ul style="list-style-type: none"> <li>Available retaining plates</li> </ul>	31567AA190
	31567AA200	3.8 (0.150)
	31567AA210	4.0 (0.157)
	31567AA220	4.2 (0.165)
	31567AA230	4.4 (0.173)
	31567AA240	4.6 (0.181)
	31567AA250	4.8 (0.189)
	31567AA260	5.0 (0.197)



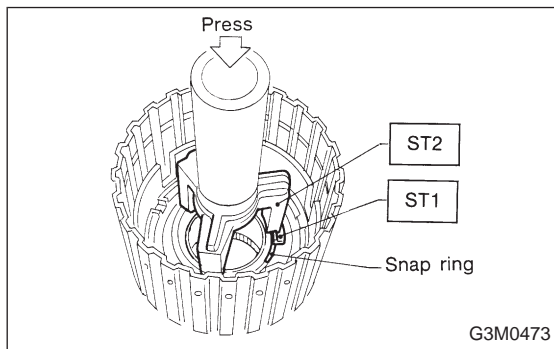
## 11. Forward Clutch Drum

### A: DISASSEMBLY

- 1) Remove two snap rings from the forward clutch drum.
- 2) Remove the retaining plate, drive plates, driven plates and dish plate. (Forward clutch)

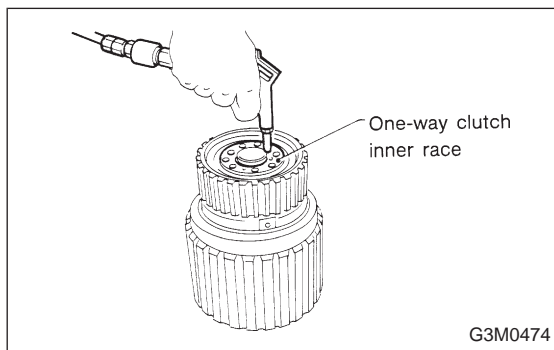


- 3) Remove the snap ring from the forward clutch drum.
- 4) Remove the retaining plate, drive plates, driven plates and dish plate. (Overrunning clutch)



- 5) Compress the spring retainer, and remove the snap ring from the forward clutch, by using ST1 and ST2.

ST1 498627100 SEAT  
ST2 398673600 COMPRESSOR



- 6) Install the one-way clutch inner race to the forward clutch drum, and apply compressed air to remove the overrunning piston and forward piston.