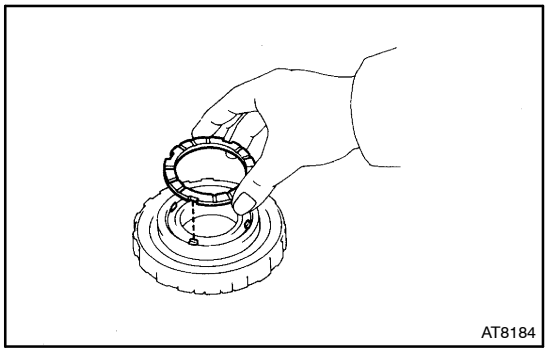
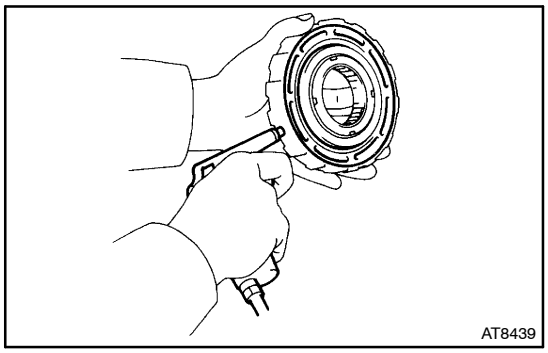
400VY–01

OVERHAUL



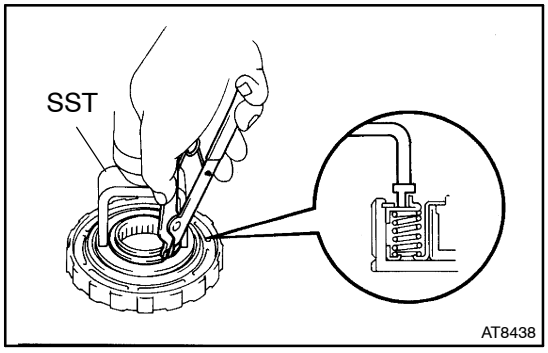
1. REMOVE PLANETARY CARRIER THRUST WASHER NO.4

(a) Remove the thrust washer from the 2nd brake piston.



2. INSPECT 2ND BRAKE PISTON

(a) Make sure the 2nd brake piston moves smoothly when applying and releasing low–pressure compressed air to the 2nd brake drum.



3. REMOVE 2ND BRAKE PISTON RETURN SPRING SUB–ASSY

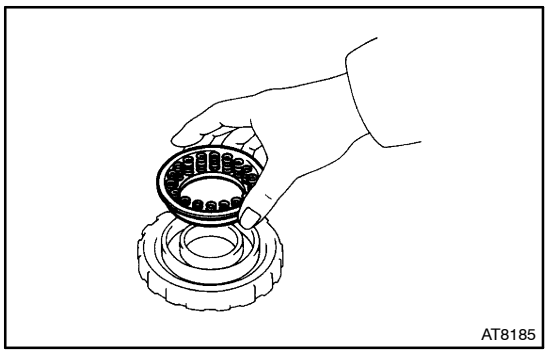
(a) Place SST on the spring retainer, and compress the piston return spring with a press.
SST 09350–30020 (09350–07040)

NOTICE:

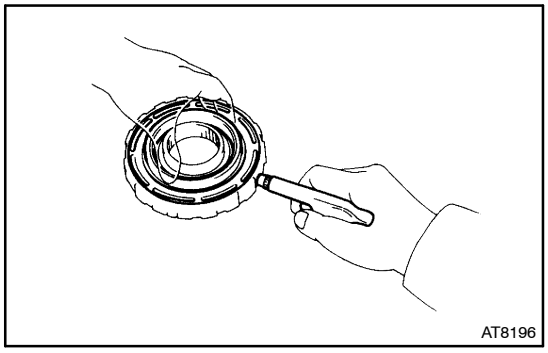
- **Stop compressing when the spring sheet is lowered to the place 1 – 2 mm (0.039 – 0.078 in.) from the snap ring groove, preventing the spring sheet from being deformed.**
- **Do not expand the snap ring excessively.**

(b) Using a snap ring expander, remove the snap ring.

(c) Remove the spring retainer.



(d) Remove the piston return spring.



4. REMOVE 2ND BRAKE PISTON

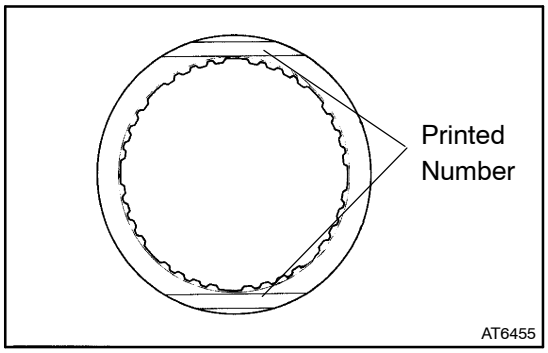
(a) Hold the 2nd brake piston by hand, and apply compressed air to the 2nd brake drum to remove the 2nd brake piston.

(b) Remove the 2nd brake piston.

HINT:

If the piston is at an angle and cannot be removed, press down on the protruding side and apply compressed air again, or wind vinyl tape around the piston end and remove it with needle–nose pliers.

(c) Remove the 2 O–rings from the piston.

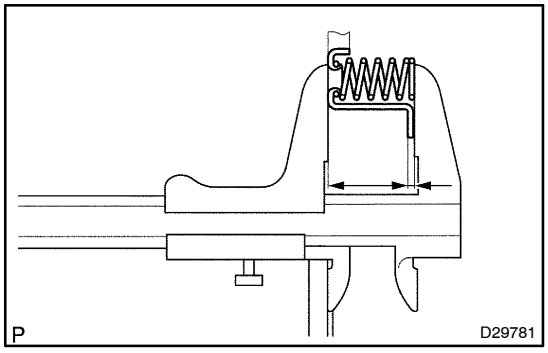


5. INSPECT 2ND BRAKE CLUTCH DISC

(a) Check to see if the sliding surfaces of the disc, the plate and the flange are worn or burnt. If necessary, replace them.

HINT:

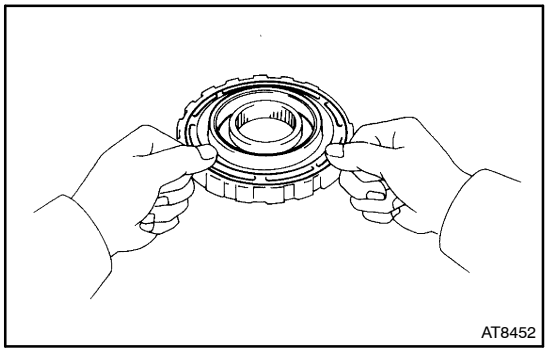
- If the lining of the disc is peeled off or discolored, or even if only a part of the printed numbers is corroded, replace all discs.
- Before assembling new discs, soak them in ATF for at least 15 minutes.



6. INSPECT 2ND BRAKE PISTON RETURN SPRING SUB–ASSY

(a) Using vernier calipers, measure the free length of the spring together with the spring seat.

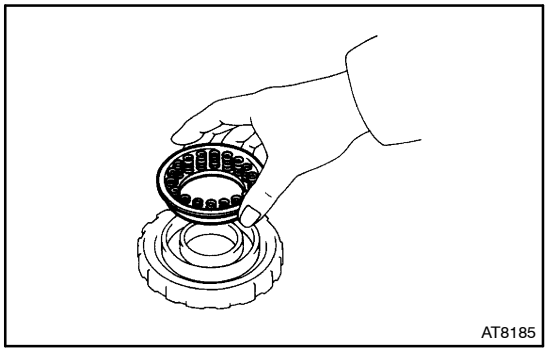
Standard free length: 16.05 mm (0.6319 in.)



7. INSTALL 2ND BRAKE PISTON

(a) Coat 2 new O–rings with ATF, and install them on the 2nd brake piston.

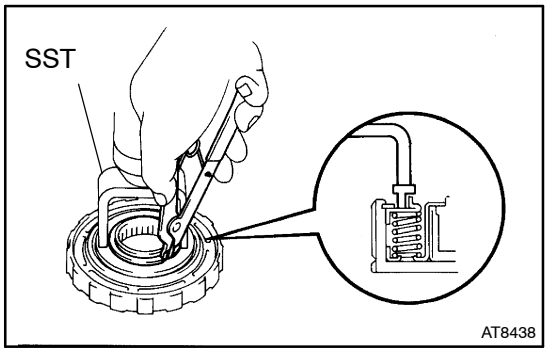
(b) Being careful not to damage the O–rings, and press the 2nd brake piston into the 2nd brake drum with both hands.



8. INSTALL 2ND BRAKE PISTON RETURN SPRING SUB–ASSY

(a) Install the piston return spring.

(b) Install the spring retainer.

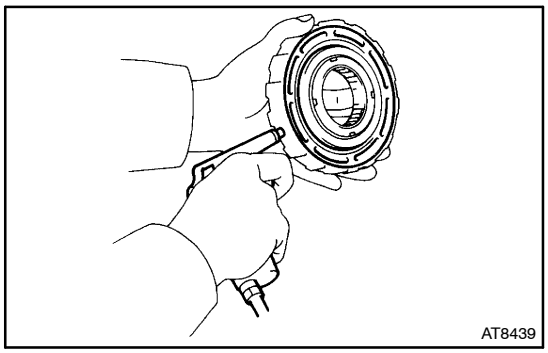


(c) Place SST on the spring retainer, and compress the return spring with a press.
SST 09350–30020 (09350–07040)

NOTICE:

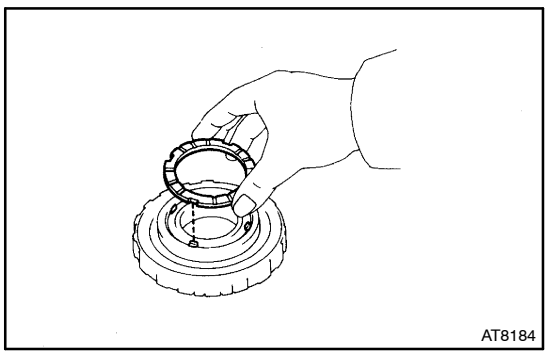
- **Stop compressing when the spring sheet is lowered to the place 1 – 2 mm (0.039 – 0.078 in.) from the snap ring groove, preventing the spring sheet from being deformed.**
- **Do not expand the snap ring excessively.**

(d) Using a snap ring expander, install the snap ring.



9. INSPECT 2ND BRAKE PISTON

(a) Make sure the 2nd brake piston moves smoothly when applying and releasing low–pressure compressed air to the 2nd brake drum.



10. INSTALL PLANETARY CARRIER THRUST WASHER NO.4

(a) Coat the thrust washer with petroleum jelly, and install it.

HINT:

Make sure that the cutout portions of thrust washer fit into the teeth of the spring retainer.