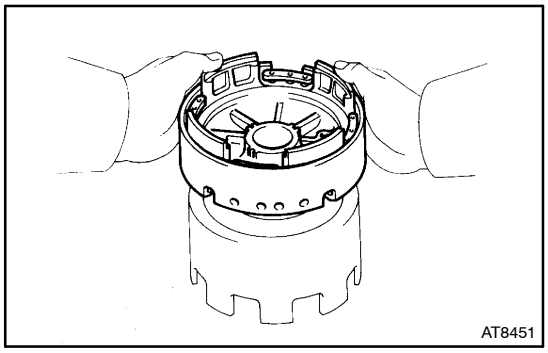
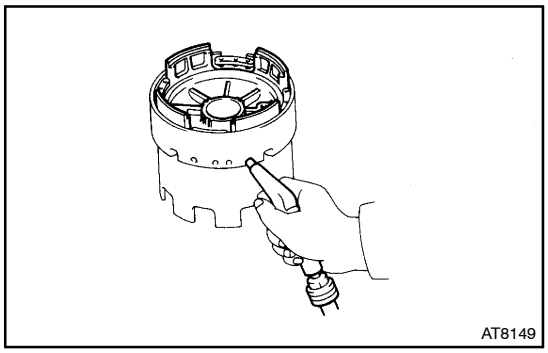
400X0–01

OVERHAUL

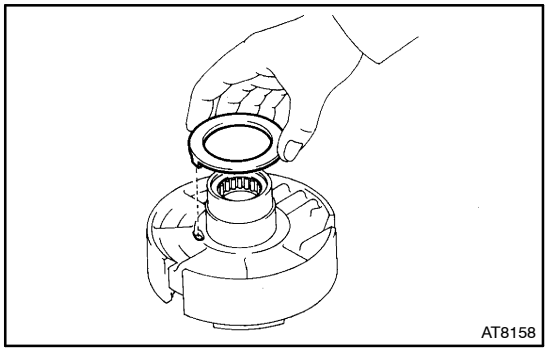


1. INSPECT PISTON OPERATION OF OVERDRIVE BRAKE

(a) Place the O/D support assembly onto the direct clutch assembly.

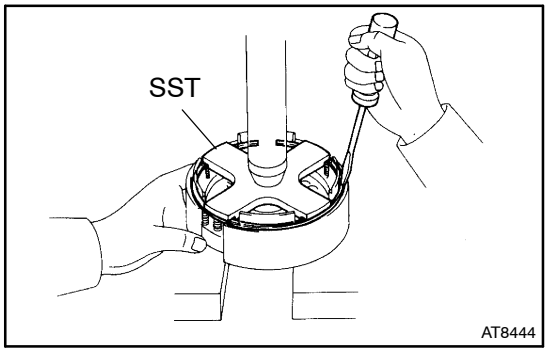


(b) Apply compressed air (392 kPa, 4.0 kgf/cm^2, 57 psi) into the oil passage as shown, and check that the O/D brake piston moves smoothly.



2. REMOVE OVERDRIVE BRAKE RETURN SPRING SUB–ASSY

(a) Remove thrust washer from O/D support.



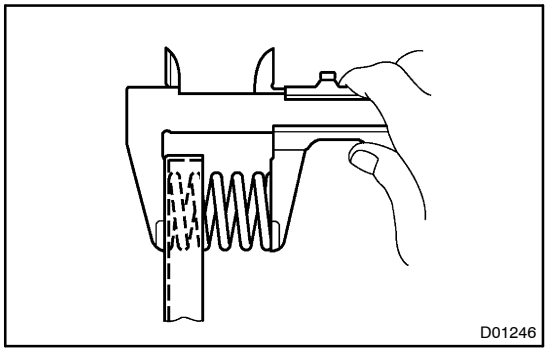
(b) Place SST on the spring retainer, and compress the return spring with a press.
SST 09350–30020 (09350–07030)

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.

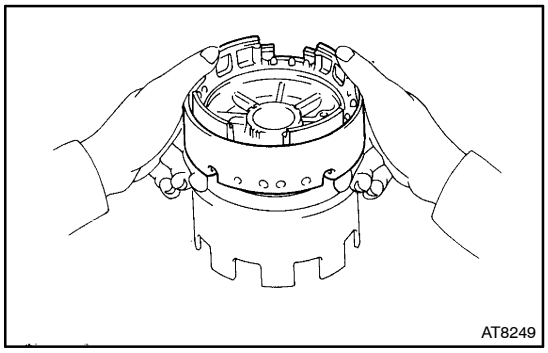
(c) Using a screwdriver, remove the snap ring.

(d) Remove the piston return spring.



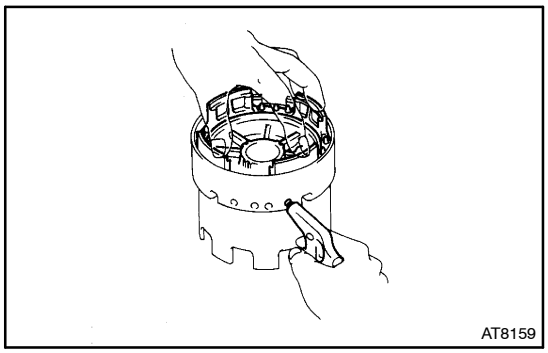
3. INSPECT OVERDRIVE BRAKE RETURN SPRING SUB–ASSY

(a) Measure the free length of the spring together with the spring seat.
Standard free length: 17.03 mm (0.671 in.)

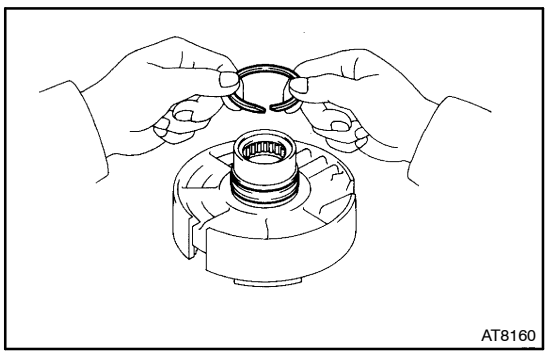


4. REMOVE OVERDRIVE BRAKE PISTON

(a) Place the O/D support onto the direct clutch assembly.

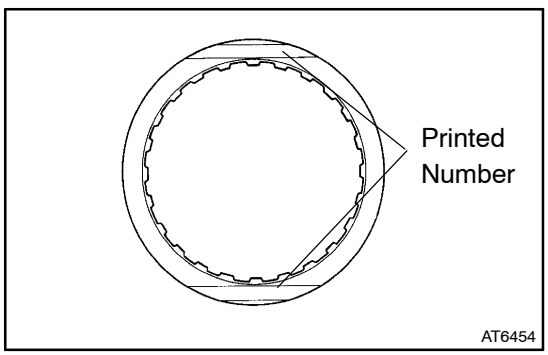


(b) Hold the O/D brake piston so that it does not slant, and apply compressed air into the passage to remove the O/D brake piston.
(c) Remove the O/D brake piston.
(d) Remove the 2 O–rings from the piston.



5. REMOVE OVERDRIVE CLUTCH DRUM OIL SEAL RING

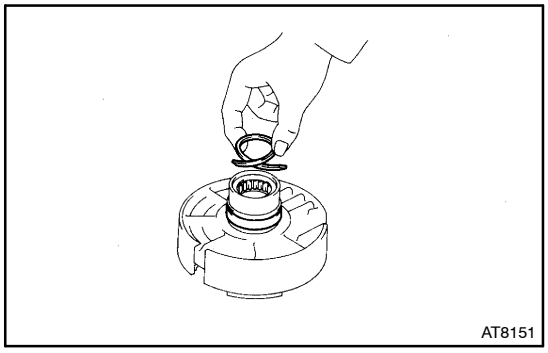
(a) Remove the O/D clutch drum oil seal ring.



6. INSPECT OVERDRIVE BRAKE CLUTCH DISC

(a) Check 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.



7. INSTALL OVERDRIVE CLUTCH DRUM OIL SEAL RING

(a) Coat the 2 oil seal rings with ATF.

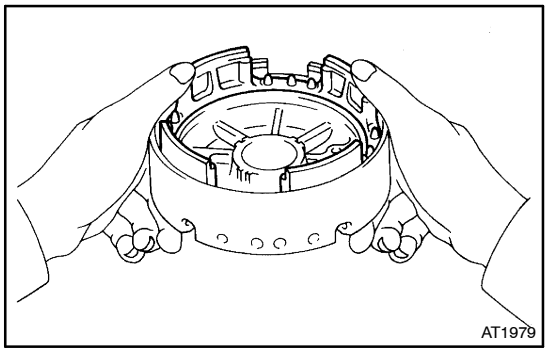
(b) Squeeze the ends of the 2 oil seal rings together , and then install them to the O/D support groove.

NOTICE:

Do not spread the ring ends more than necessary.

HINT:

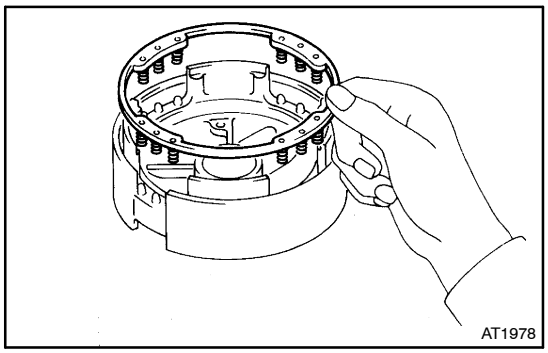
After installing the oil seal rings, check that they rotate smoothly.



8. INSTALL OVERDRIVE BRAKE PISTON

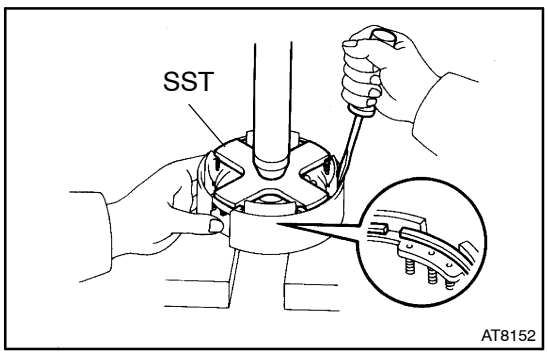
(a) Coat 2 new O–rings with ATF, and install them on the O/D brake piston.

(b) Being careful not to damage the O–rings, and press in the brake piston into the O/D support with both hands.



9. INSTALL OVERDRIVE BRAKE RETURN SPRING SUB–ASSY

(a) Install the piston return spring.



(b) Place SST on the spring retainer, and compress the return spring with a press.

SST 09350–30020 (09350–07030)

NOTICE:

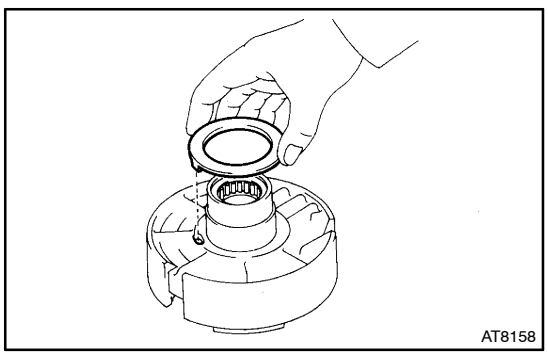
Stop compressing when the spring sheet is lowered to the place 1 – 2 mm (0.039 – 0.078 in.) from the snap ring groove, preventing the spring sheet from bearing deformed.

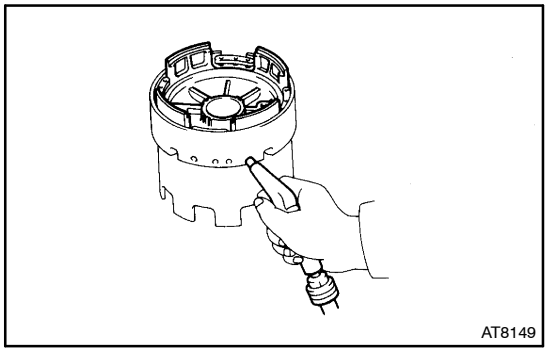
(c) Using a screwdriver, install the snap ring. Be sure the end gap of the snap ring is not aligned with the cutout portion of the O/D support.

(d) Coat the thrust washer with petroleum jelly, and install it onto the O/D support.

HINT:

Make sure that the lug shape fits into the hole on the O/D support.





10. INSPECT PISTON OPERATION OF OVERDRIVE BRAKE

(a) Place the O/D support assembly onto the direct clutch assembly.

(b) Apply compressed air into the oil passage as shown, and check that the O/D brake piston moves smoothly.