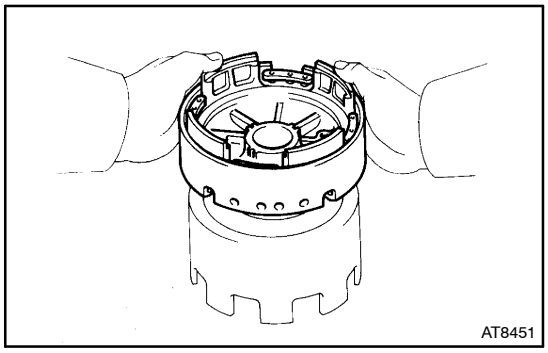
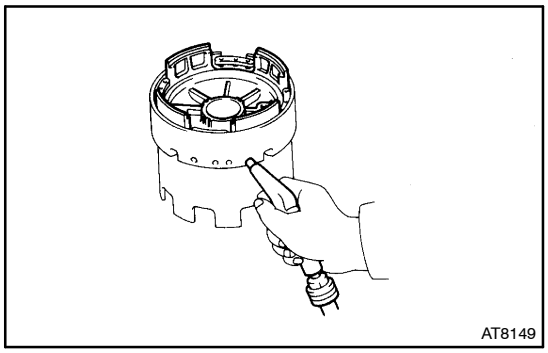
400VO–01

OVERHAUL

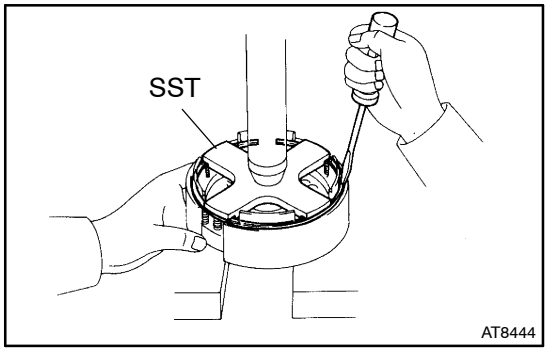


1. INSPECT PISTON OPERATION OF OVERDRIVE BRAKE

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



(b) Apply compressed air (392 kPa, 4 kgf/cm^2, 57 psi) into the oil passage, and check that the O/D brake piston moves smoothly.

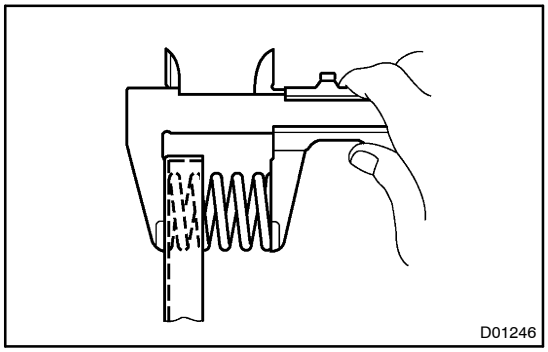


2. REMOVE OVERDRIVE BRAKE RETURN SPRING SUB–ASSY

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

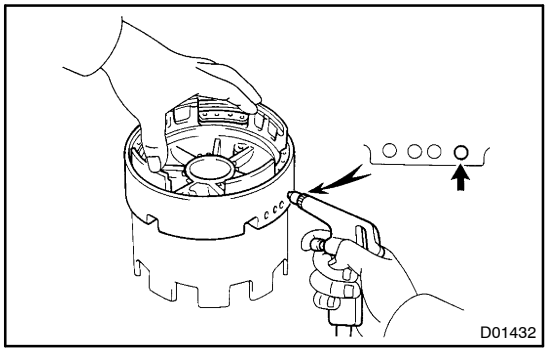
(b) Remove the snap ring with a screwdriver.

(c) 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.)

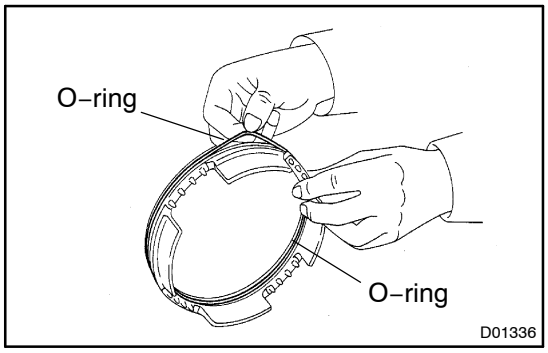


4. REMOVE OVERDRIVE BRAKE PISTON

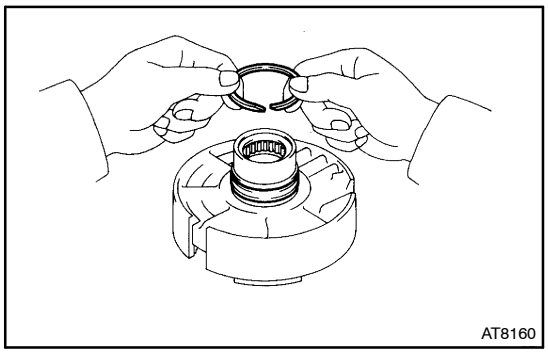
(a) Place the O/D support onto the direct clutch assembly.

(b) Hold the O/D brake piston so that it does not slant, and apply compressed air (392 kPa, 4 kgf/cm^2, 57 psi) into the passage to remove the O/D brake piston.

(c) Remove the O/D brake piston.

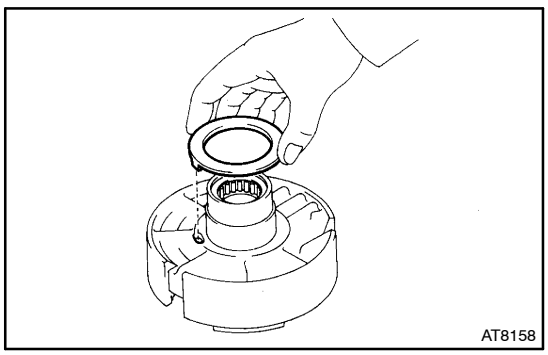


(d) Remove the 2 O–rings.

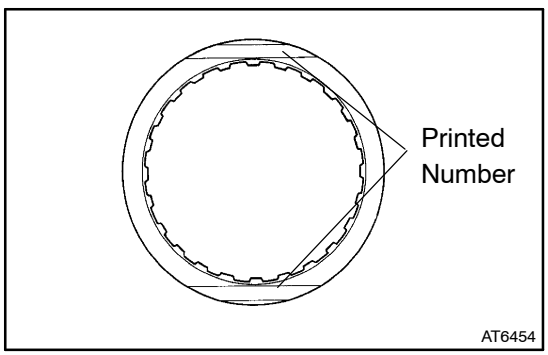


5. REMOVE OVERDRIVE CLUTCH DRUM OIL SEAL RING

(a) Remove the 2 oil seal ring.



(b) Remove clutch drum thrust washer from O/D support.

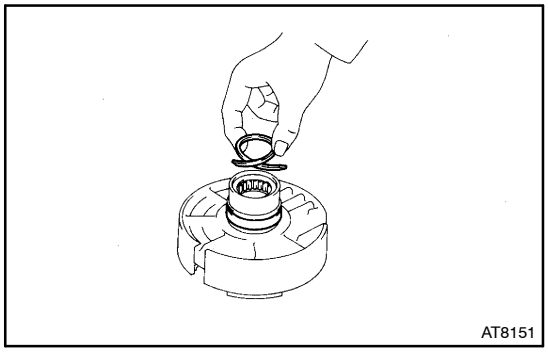


6. INSPECT OVERDRIVE BRAKE CLUTCH DISC

(a) Check if the sliding surface 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.



7. INSTALL OVERDRIVE CLUTCH DRUM OIL SEAL RING

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

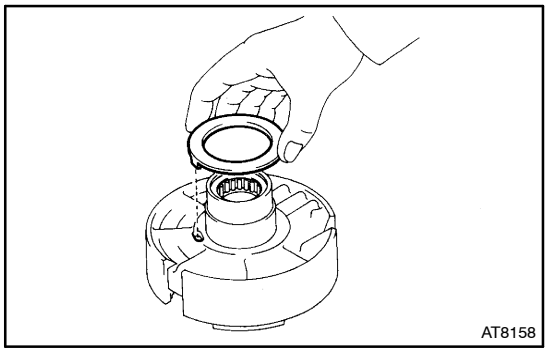
(b) Squeeze the ends of the 2 ois seal rings toghedher, and then install them to the starter shaft groove.

NOTICE:

Do not spread the ring ends more than necessary.

HINT:

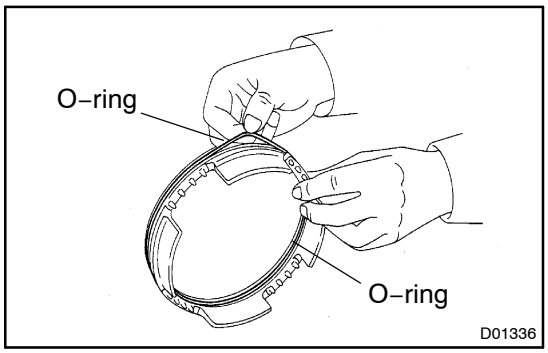
After installing the oil seal rings, check that they rotate smoothly.



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

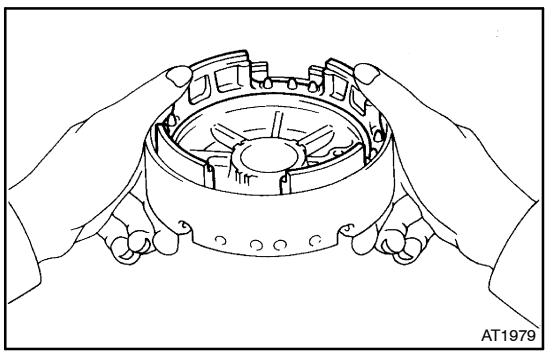
HINT:

Make sure that the lugs shapes fit into the holes on the O/D support.

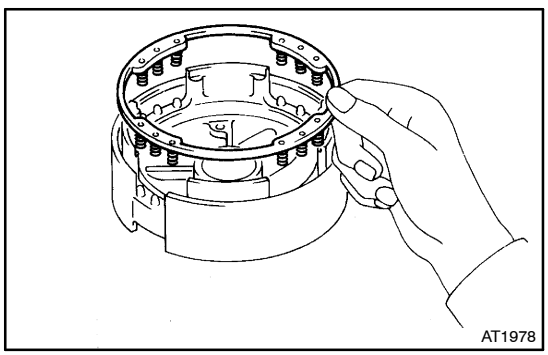


8. INSTALL OVERDRIVE BRAKE PISTON

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

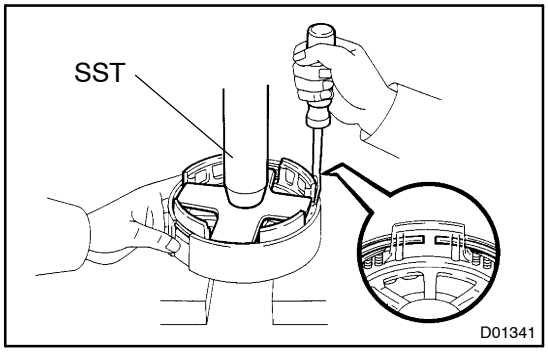


(b) Being careful not to damage the O–rings, and press in the brake piston into the O/D support with both hands.



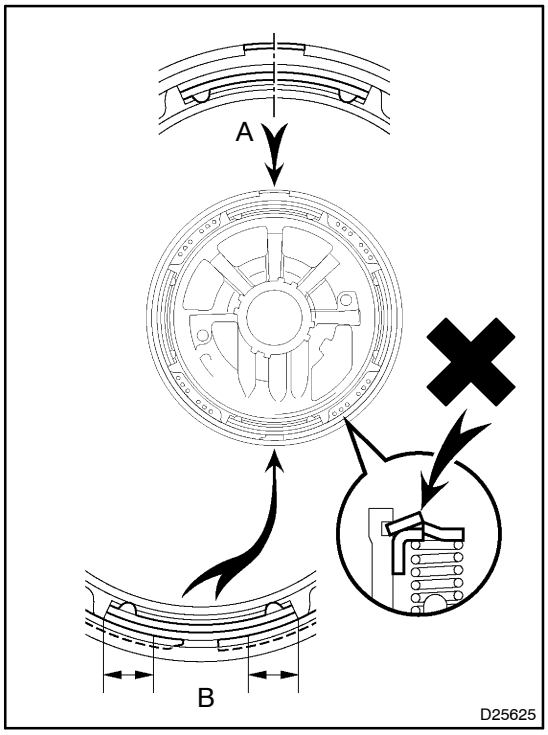
9. INSTALL OVERDRIVE BRAKE RETURN SPRING SUB–ASSY

(a) Install the piston return spring.

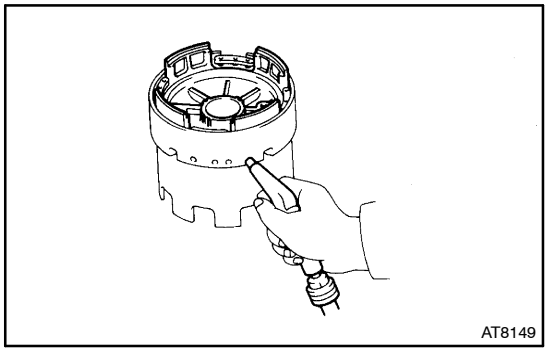


(b) Place SST on the spring retainer, and compress the return spring with a shop press.
SST 09350–30020 (09350–07030)
(c) Install the snap ring with a screwdriver.

NOTICE:
Be sure the end gap of the snap ring is not aligned with the cutout portion of the O/D support.



HINT:
After assembling the O/D support assembly completely, align the position of the piston with the position shown in the illustration "A".
Align the end gap of the snap ring as shown in the illustration "B".
Make sure that the snap ring is not on the part of return spring to prevents the spring from coming off. Check this on 8 places.



10. 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 kgf/cm^2, 57 psi) into the oil passage as shown, and be sure that the O/D brake piston moves smoothly.