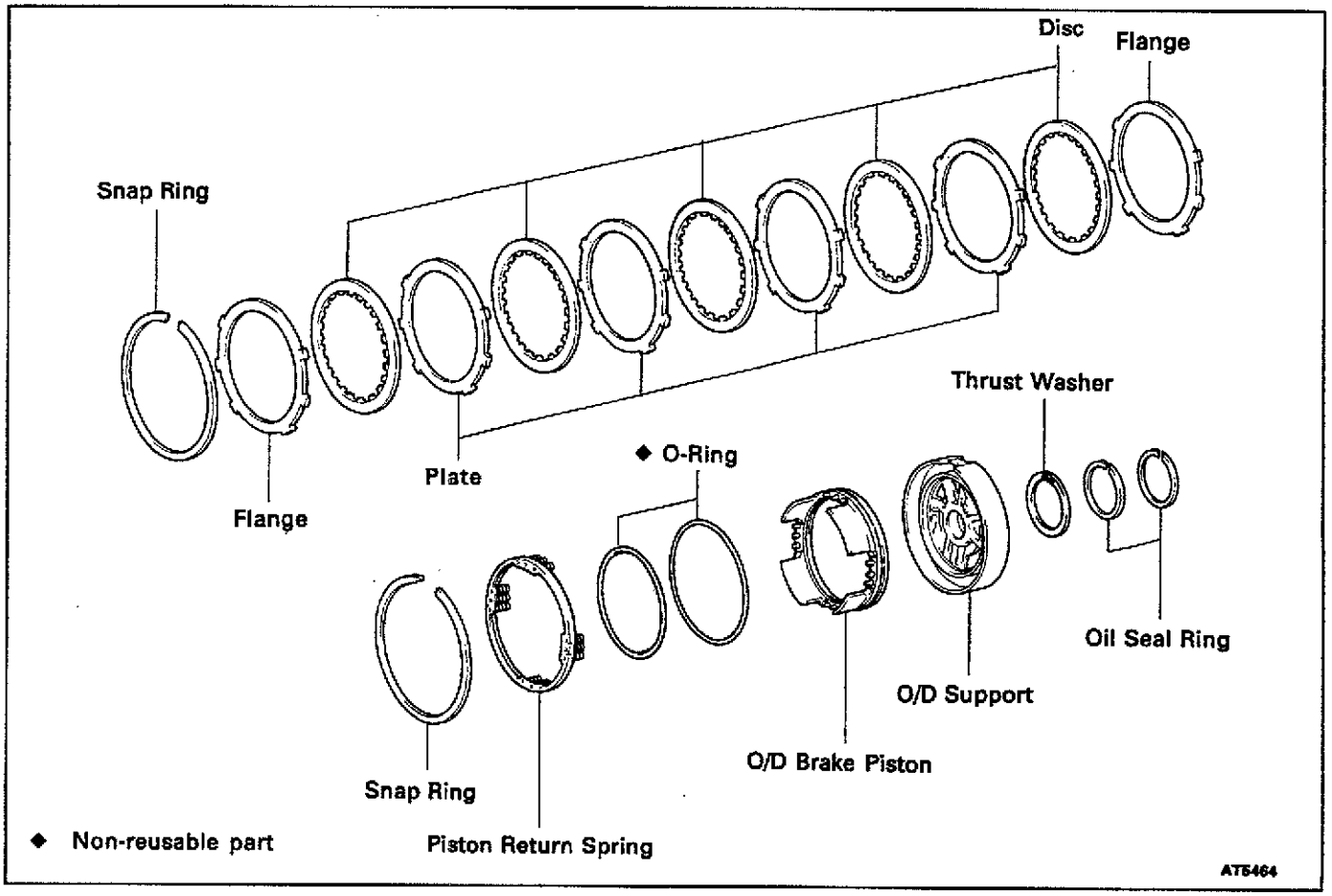
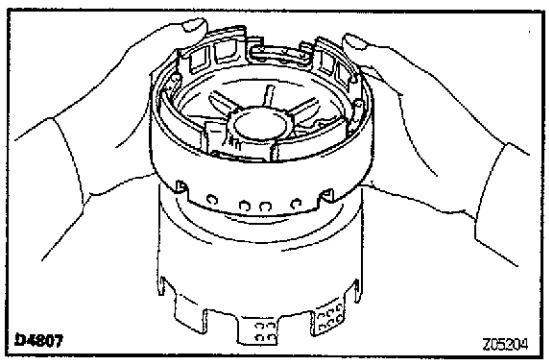
OVERDRIVE BRAKE
COMPONENTS

AT0DS-02



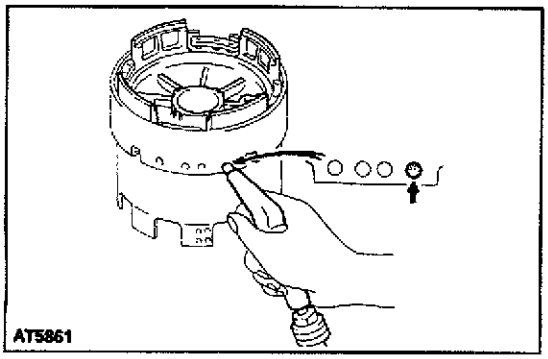


OVERDRIVE BRAKE DISASSEMBLY

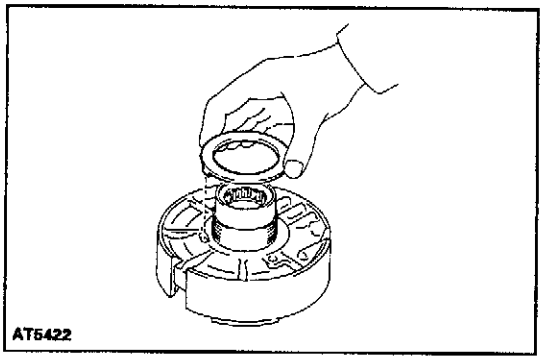
AT0DT-02

1. CHECK OVERDRIVE BRAKE PISTON MOVEMENT

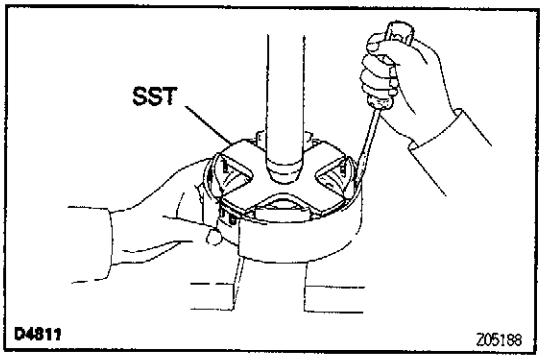
(a) Place the O / D support assembly onto the direct clutch assembly.



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

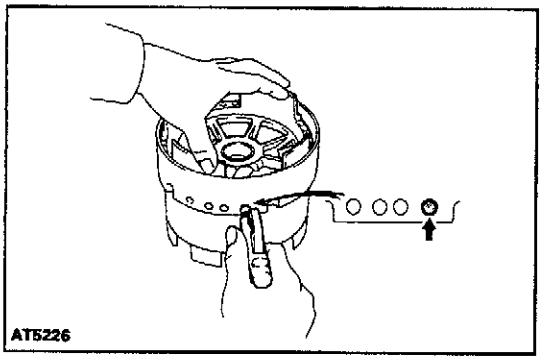


2. REMOVE CLUTCH DRUM THRUST WASHER FROM OVERDRIVE SUPPORT



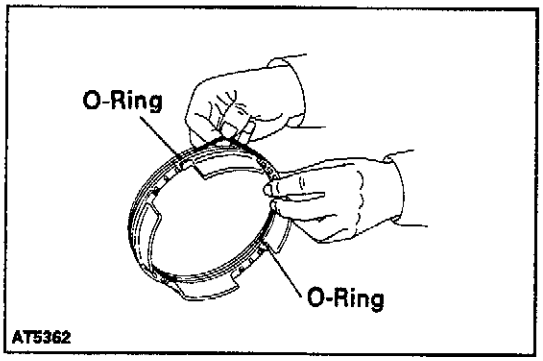
3. REMOVE PISTON RETURN SPRING

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

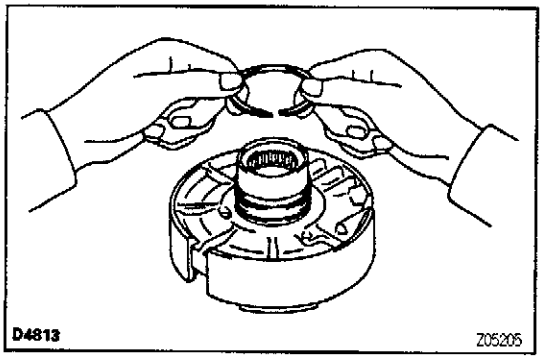


4. REMOVE OVERDRIVE BRAKE PISTON

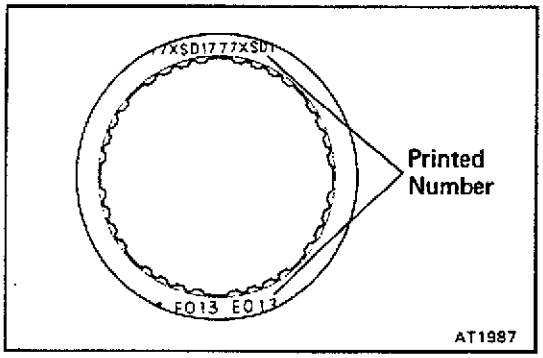
(a) Place the O/D support onto the direct clutch assembly.
(b) Hold the O/D brake piston so it does not slant, and apply compressed air into the passage to remove the O/D brake piston.
(c) Remove the O/D brake piston.



(d) Remove the 2 O–rings.



5. REMOVE OIL SEAL RINGS

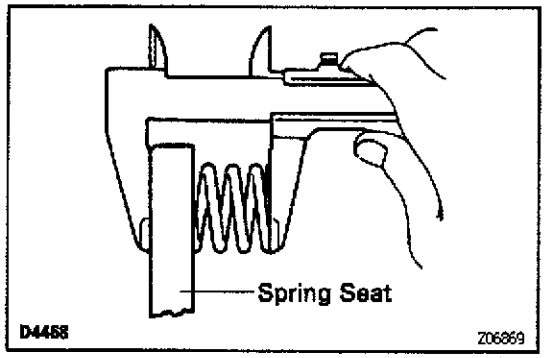


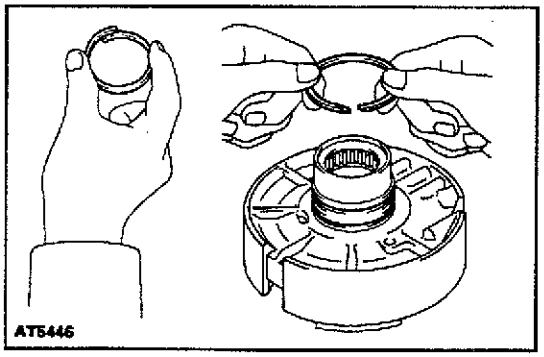
OVERDRIVE BRAKE INSPECTION

AT0DU-04

1. **INSPECT DISC, PLATE AND FLANGE**
Check to see if the sliding surface of the disc, plate and flange are worn or burnt. If necessary, replace them.
HINT:
- If the lining of the disc is peeling off or discolored, or even if a part of the printed numbers are defaced, replace all discs.
- Before assembling new discs, soak them in ATF for at least 15 minutes.

2. **CHECK OVERDRIVE BRAKE PISTON RETURN SPRING**
Check the spring free length together with the spring seat.
Standard free length:
17.23 mm (0.6783 in.)

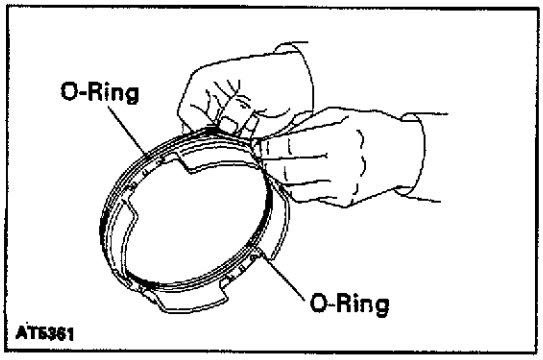




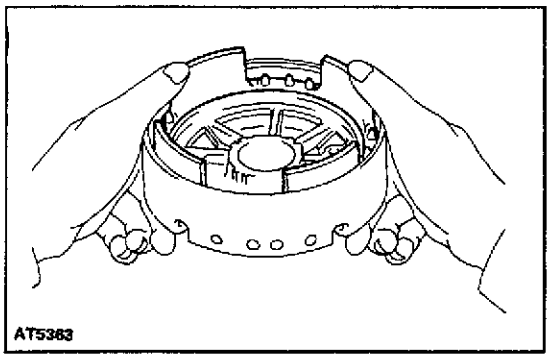
OVERDRIVE BRAKE ASSEMBLY

AT0DV-04

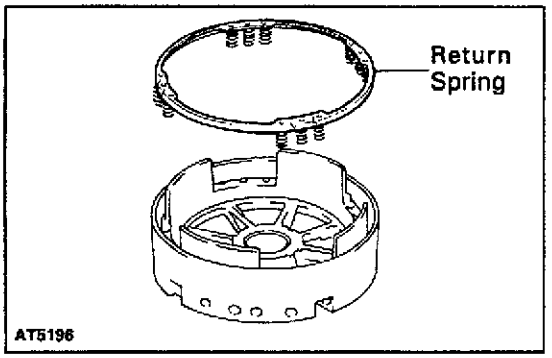
1. **INSTALL OIL SEAL RINGS**
(a) Coat the 2 oil seal rings with ATF.
(b) Install the 2 oil seal rings to the O/D support groove, then snug them down by squeezing their ends together.
NOTICE: Do not spread the ring ends more than necessary.
HINT: After installing the oil seal rings, check that they rotate smoothly.



2. **INSTALL OVERDRIVE BRAKE PISTON**
(a) Coat 2 new O–rings with ATF and install them on the O/D brake piston.

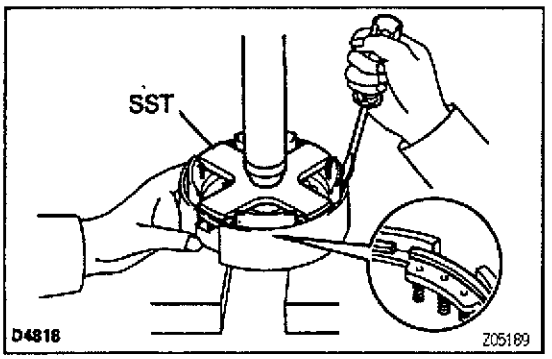


(b) Being careful not to damage the O-rings, press in the brake piston into the O/D support with both hands.



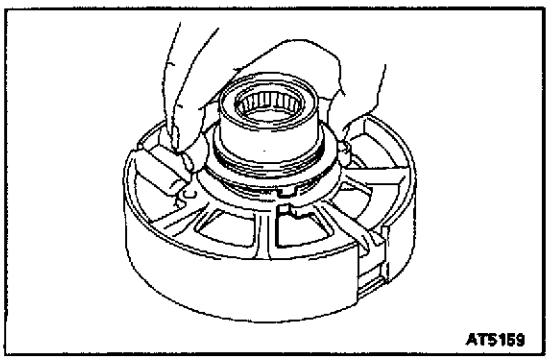
3. INSTALL PISTON RETURN SPRING

(a) Install the piston return spring.



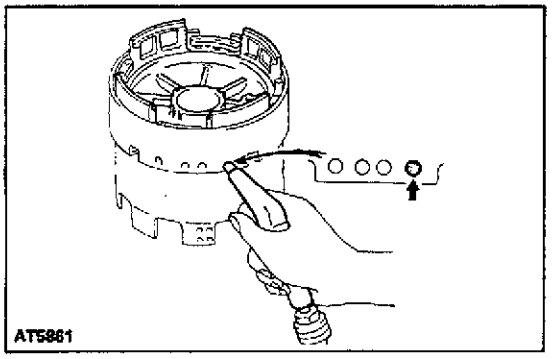
(b) Place SST on the spring retainer, and compress the return spring with a shop press.
SST 09350-30020 (09350-07030)

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



4. INSTALL CLUTCH DRUM THRUST WASHER

Coat the thrust washer with petroleum jelly and install it into the O/D support.
HINT: Make sure that the lug shape matches the hole on the O/D support.



5. CHECK OVERDRIVE BRAKE PISTON MOVEMENT

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

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