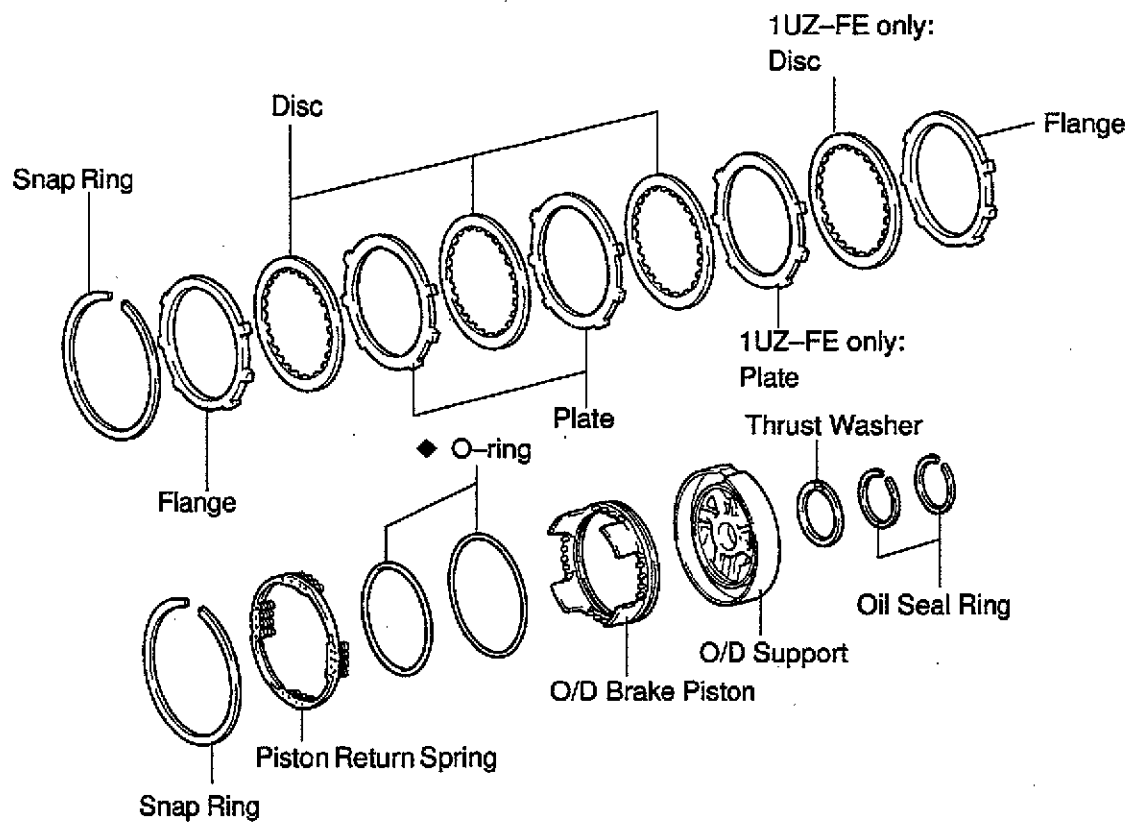


OVERDRIVE BRAKE COMPONENTS

AT049-01

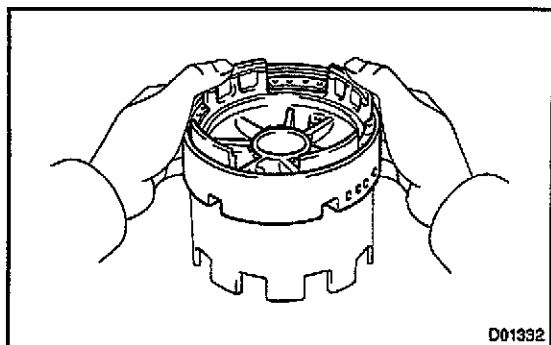


◆ Non-reusable part

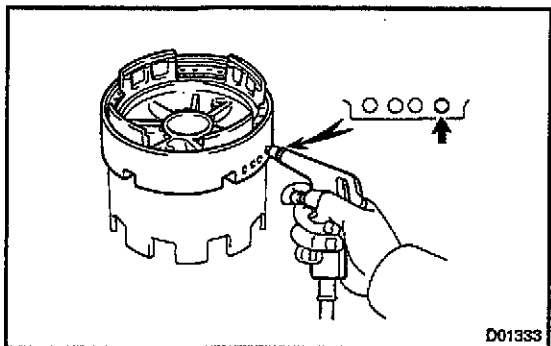
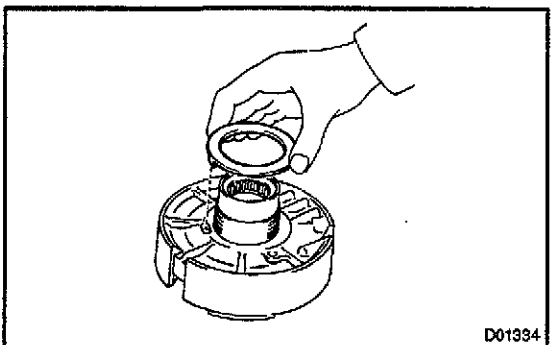
D01273

DISASSEMBLY**1. CHECK PISTON OPERATION OF O/D BRAKE**

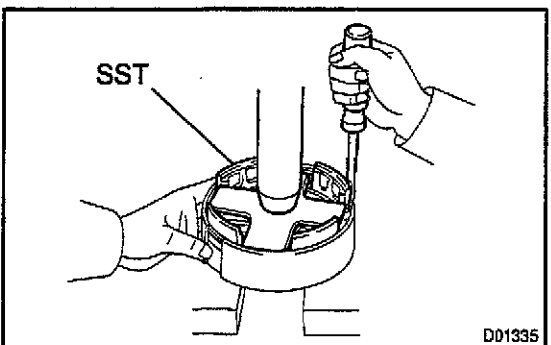
- (a) Place the O/D support assembly onto the direct clutch assembly.



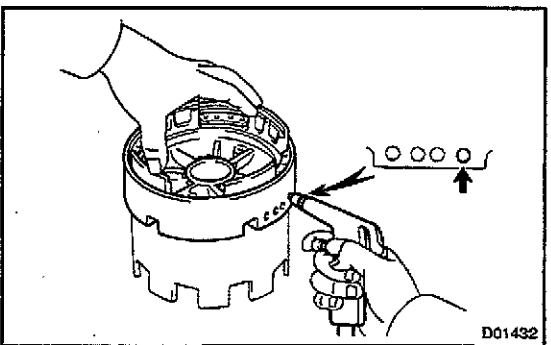
- (b) Apply compressed air (392 kPa, 4 kgf/cm², 57 psi) into the oil passage and be sure that the O/D brake piston moves smoothly.

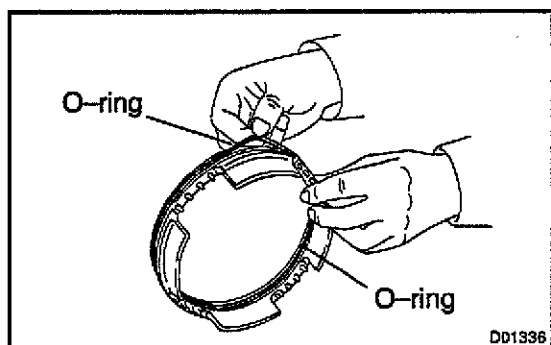
**2. REMOVE CLUTCH DRUM THRUST WASHER FROM O/D SUPPORT****3. REMOVE PISTON RETURN SPRING**

- (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.

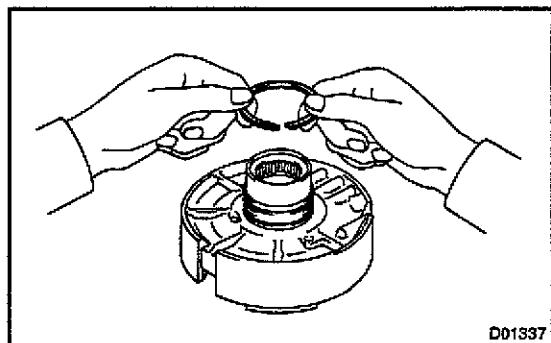
**4. REMOVE O/D BRAKE PISTON**

- (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 (392 kPa, 4 kgf/cm², 57 psi) into the passage to remove the O/D brake piston.
- (c) Remove the O/D brake piston.

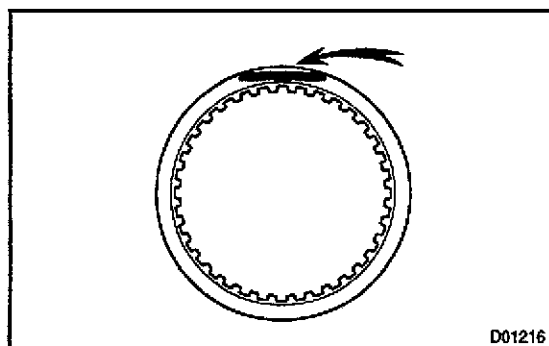




(d) Remove the 2 O-rings.



5. REMOVE 2 OIL SEAL RINGS



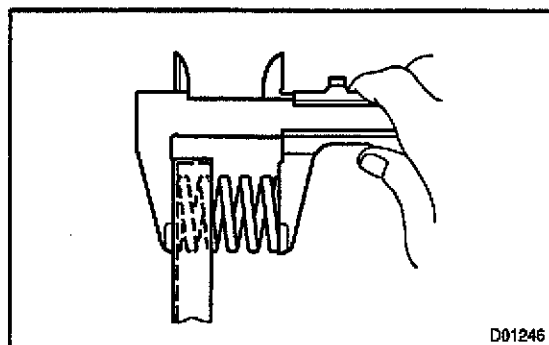
INSPECTION

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:

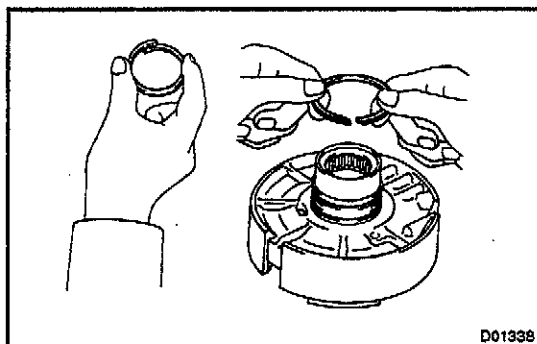
- If the lining of the disc is peeling off or discolored, or even if a part of the printed numbers is defaced, replace all discs.
- Before assembling new discs, soak them in ATF for at least 15 minutes.



2. CHECK O/D BRAKE PISTON RETURN SPRING

Measure the free length of the spring together with the spring seat.

Standard free length: 17.82 mm (0.702 in.)



REASSEMBLY

1. INSTALL OIL SEAL RING

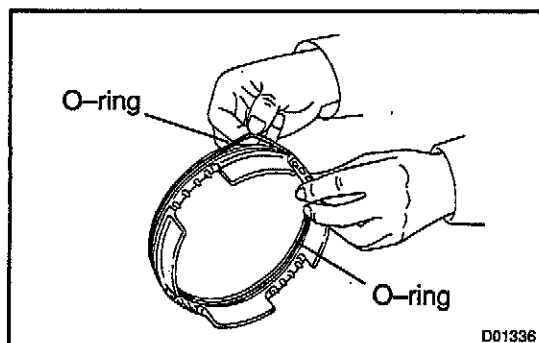
- (a) Coat the 2 oil seal rings with ATF.
- (b) Install the 2 oil seal rings to the O/D support groove, then snug them down by squeezing their ends together.

NOTICE:

Do not spread the ring ends more than necessary.

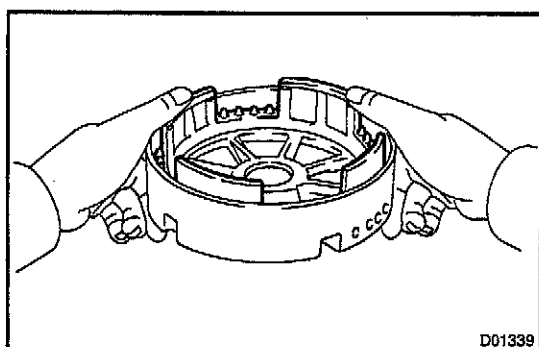
HINT:

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

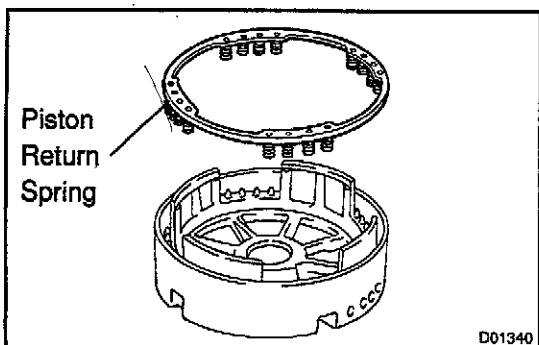


2. INSTALL O/D BRAKE PISTON

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

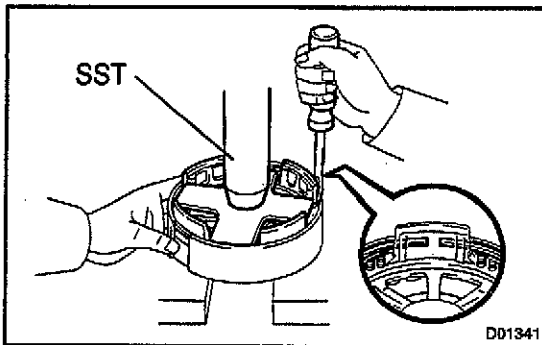


- (b) Being careful not to damage the O-rings, press in the brake piston into the O/D support with both hands.



3. INSTALL PISTON RETURN SPRING

- (a) Install the piston return spring.



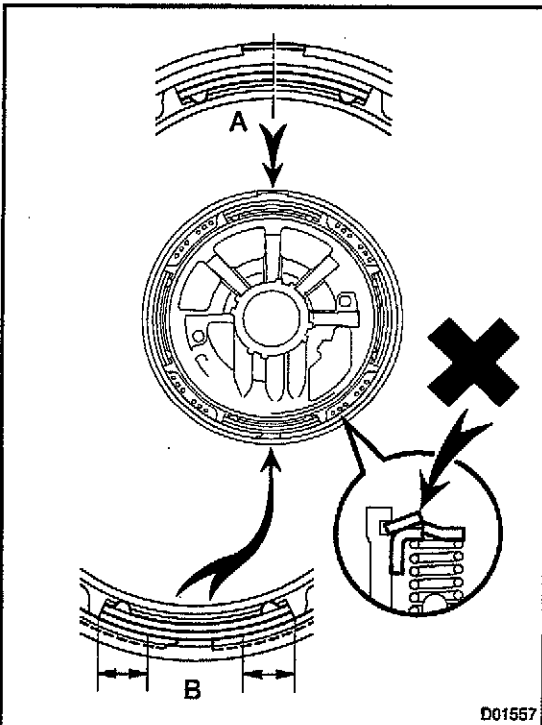
- (b) Place SST on the spring retainer, and compress the return spring with a shop press.

SST 09350-30020 (09350-07030)

- (c) Install the snap ring with a screwdriver.

NOTICE:

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

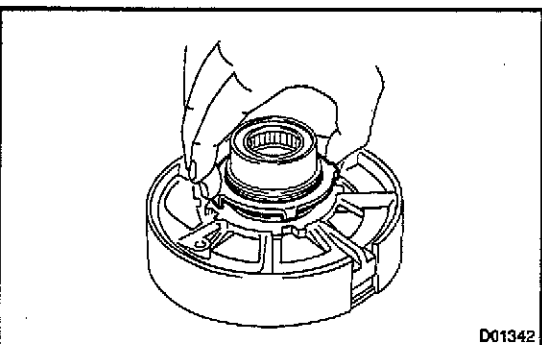


HINT:

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 which prevents the spring from coming off. Check this on 8 places.

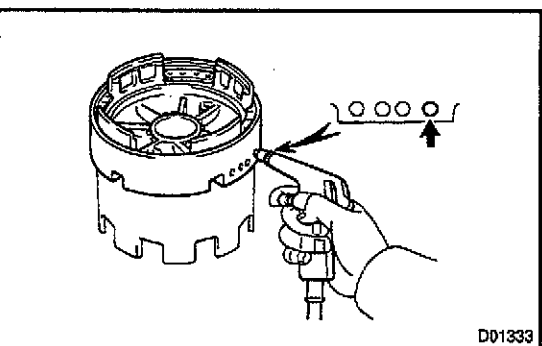


4. INSTALL CLUTCH DRUM THRUST WASHER

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

HINT:

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



5. CHECK PISTON OPERATION OF O/D BRAKE

- (a) Place the O/D support assembly onto the direct clutch assembly.
- (b) Apply compressed air (392 kPa, 4 kgf/cm², 57 psi) into the oil passage as shown, and be sure that the O/D brake piston moves smoothly.