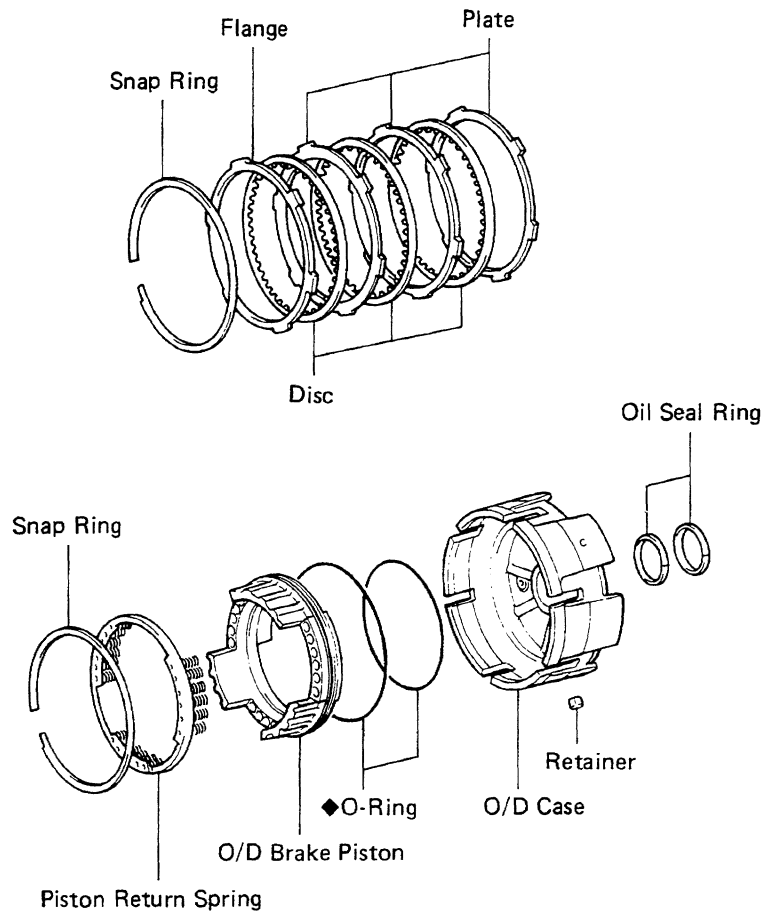
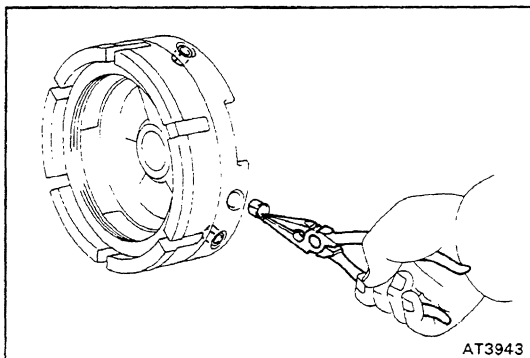


Overdrive Brake COMPONENTS



◆ Non-reusable part

AT3988

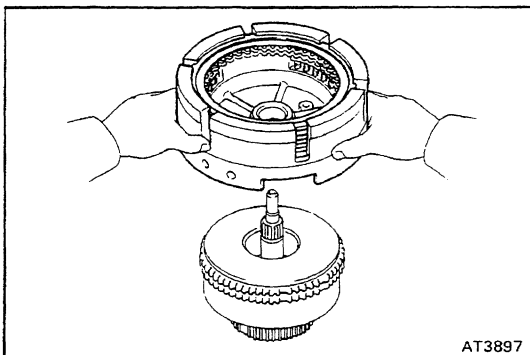


AT3943

DISASSEMBLY OF OVERDRIVE BRAKE

1. REMOVE RING RETAINERS

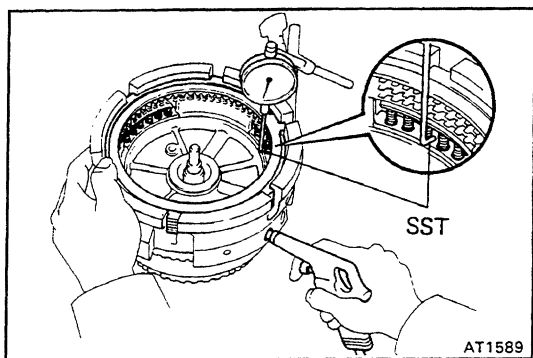
Using needle nose pliers, remove the three ring retainers from the oil holes of the O/D case.



AT3897

2. CHECK PISTON STROKE OF OVERDRIVE BRAKE

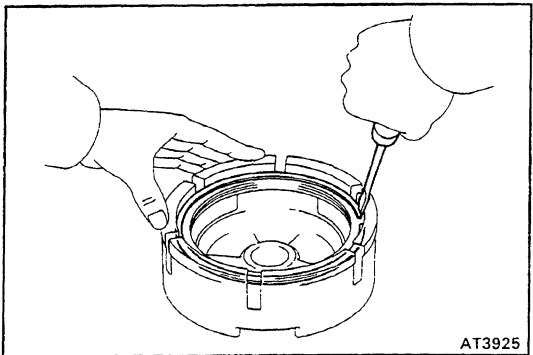
(a) Place the O/D case assembly onto the rear clutch assembly.



- (b) Using SST and a dial indicator, measure the piston stroke by applying and releasing the compressed air (4 – 8 kg lcrn2, 57 – 114 psi or 392 – 785 kPa) as shown. SST 09350-36010 (09350-06 120)

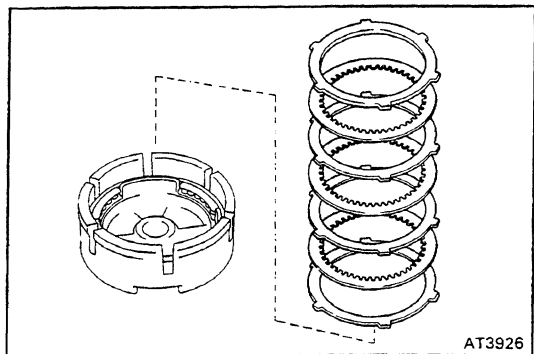
Piston stroke: 1.25 – 1.85 mm (0.0492 – 0.0728 in.)

If the piston stroke is greater than specified, inspect the discs.

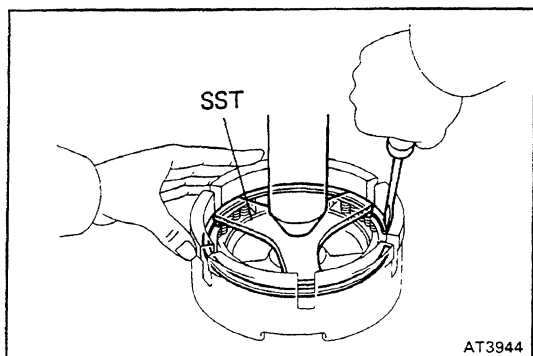


3. REMOVE FLANGE, DISCS AND PLATES

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



- (b) Remove the flange, three discs and three plates.

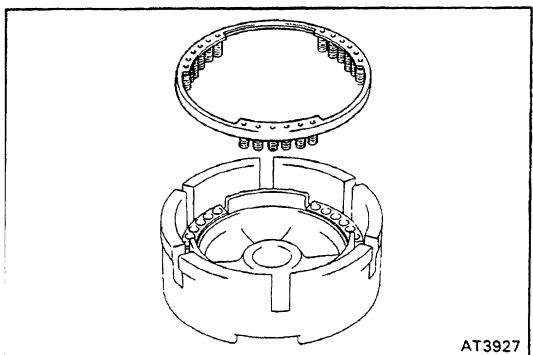


4. REMOVE PISTON RETURN SPRING

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

SST 09350-36010 (09350-06020)

- (b) Using a screwdriver, remove the snap ring.



- (c) Remove the return spring.

5. REMOVE OVERDRIVE BRAKE PISTON

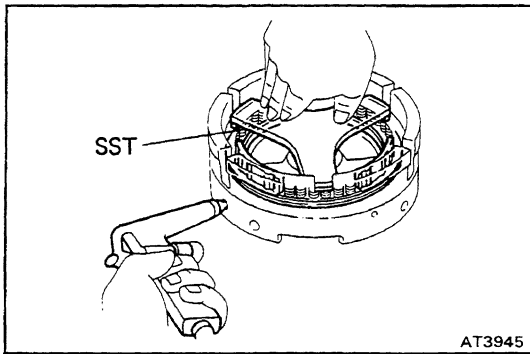
- (a) Place the return spring on the brake piston, and then place SST on the return spring.

SST 09350-36010 (09350-06020)

- (b) Hold SST so it does not slant, and apply compressed air into the oil hole of the O/D case to remove the brake piston.

SST 09350-36010 (09350-06020)

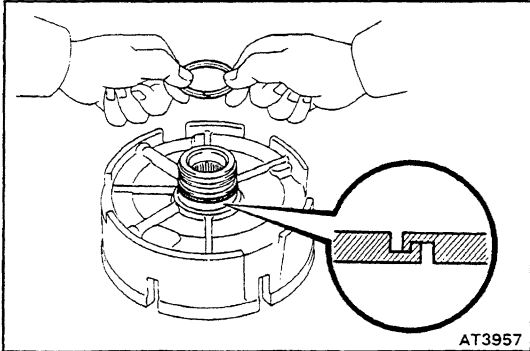
- (c) Remove the two O-rings from the brake piston.



AT3945

6. REMOVE OIL SEAL RINGS

Remove the two oil seal rings from the O/D case.



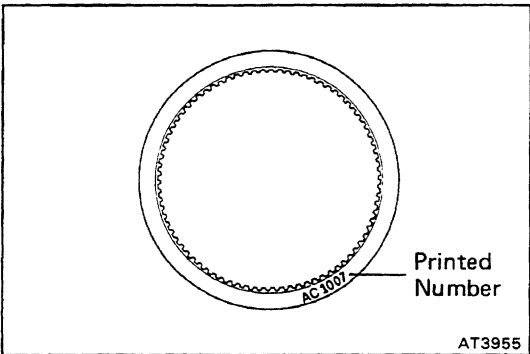
AT3957

INSPECTION OF OVERDRIVE BRAKE**1. INSPECT DISCS, PLATES 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 parts of the printed numbers are defaced, replace all discs.
- Before assembling new discs, soak them in ATF for at least two hours.



AT3955

2. INSPECT BUSHING OF OVERDRIVE CASE

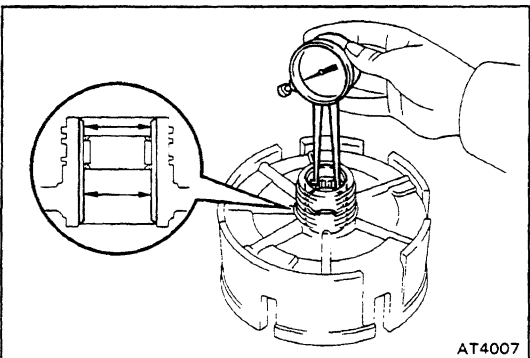
Using a dial indicator, measure the inside diameter.

Standard inside diameter: 33.100 – 33.150 mm

(1.3031 – 1.3051 in.)

Maximum inside diameter: 33.20 mm (1.3071 in.)

If the inside diameter is greater than maximum, replace the O/D case.



AT4007

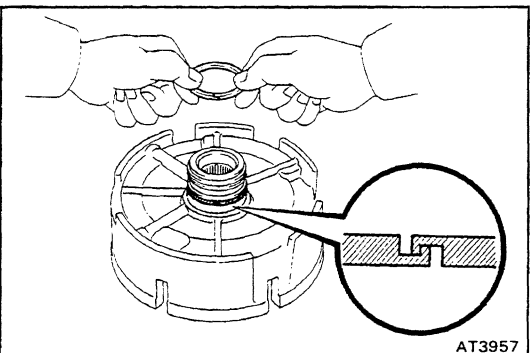
ASSEMBLY OF OVERDRIVE BRAKE**1. INSTALL OIL SEAL RINGS**

- (a) Coat the two oil seal rings with ATF.

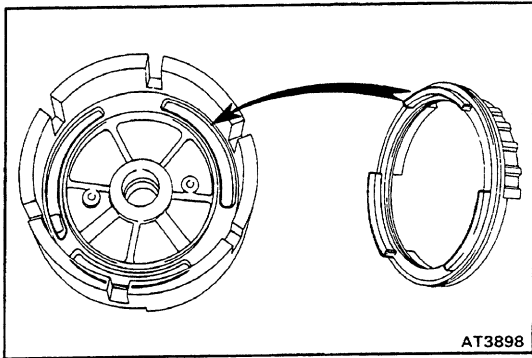
- (b) Contract the oil seals, and install them onto the O/D case.

NOTICE: Do not spread the ring ends more than necessary.

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



AT3957

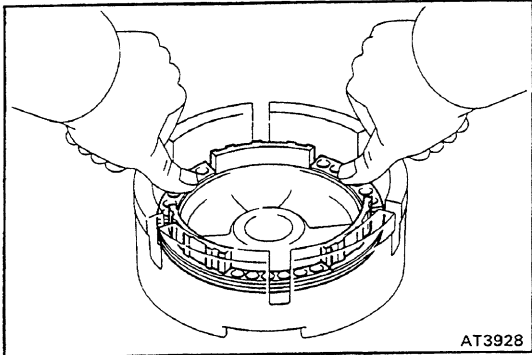


2. INSTALL OVERDRIVE BRAKE PISTON

- (a) Coat new two O-rings with ATF, and install them on the brake piston.
- (b) Align the protrusions of the brake piston with the grooves of the O/D case.

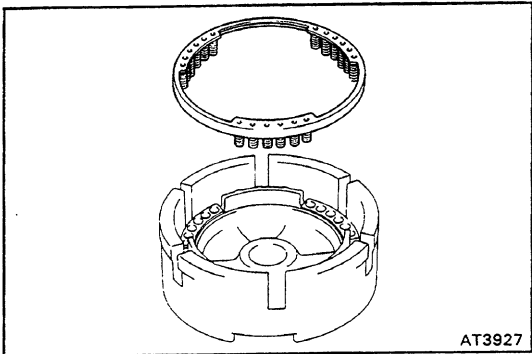
- (c) Push in the brake piston into the O/D case with both hands.

NOTICE: Be careful not to damage the O-rings.



3. INSTALL PISTON RETURN SPRING

- (a) Place the return spring on the brake piston.

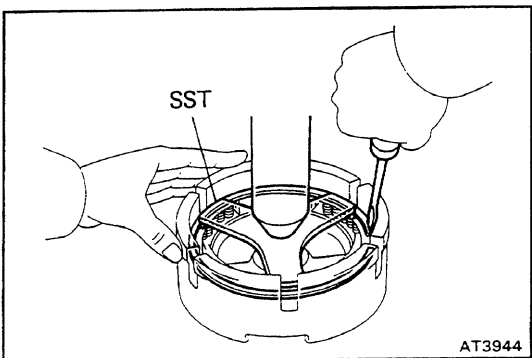


- (b) Place SST on the spring seat, and compress the return spring with a shop press.

SST 09350-3601 0 (09350-06020)

- (c) Using a screwdriver, install the snap ring.

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

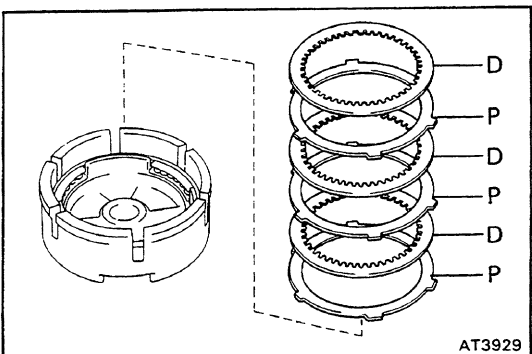


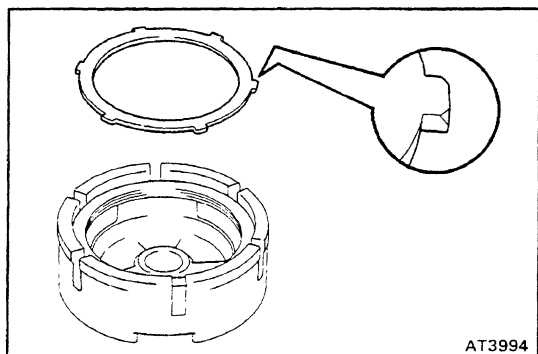
4. INSTALL PLATES, DISCS AND FLANGE

- (a) Install the three plates and three discs in order:

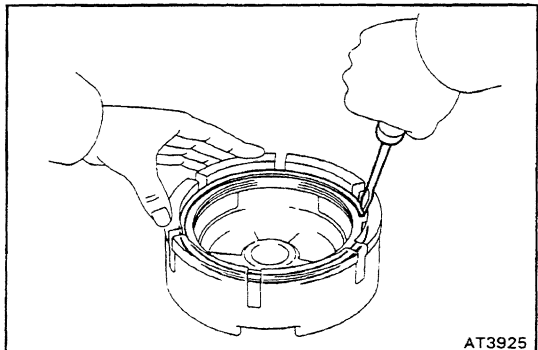
P = Plate D = Disc

P-D -P-D -P-D

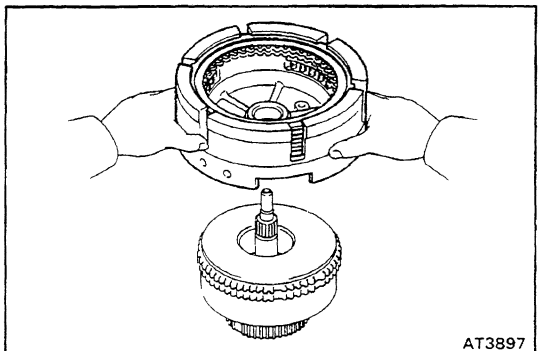




(b) Install the flange, facing the rounded edge upward.

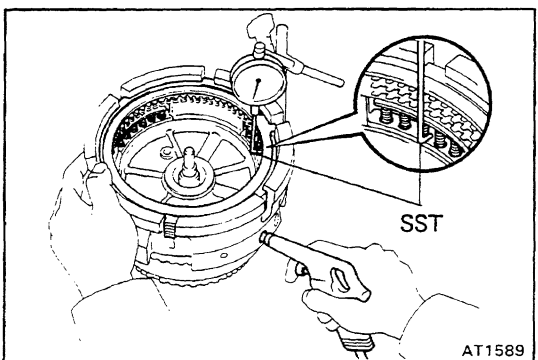


(c) Using a screwdriver, install the snap ring.
HINT: Be sure the end gap of the snap ring is not aligned with the cutout portion of the O/D case.



5. CHECK PISTON STROKE OF OVERDRIVE BRAKE

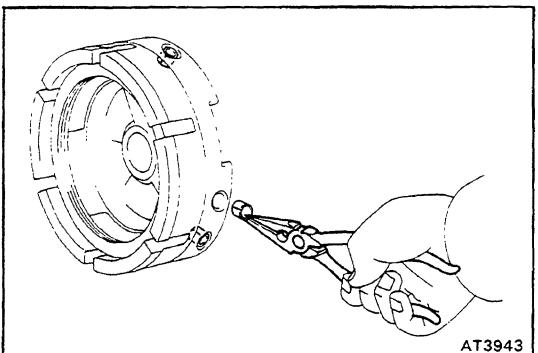
(a) Place the O/D case assembly onto the rear clutch assembly.



(b) Using SST and a dial indicator, measure the piston stroke by applying and releasing the compressed air (4 – 8 kg /cm², 57 – 114 psi or 392 – 785 kPa) as shown.
SST 09350-36010 (09350-06120)

Piston stroke: 1.25 – 1.85 mm (0.0492 – 0.0728 in.)

If the piston stroke is less than specified, parts may have been assembled incorrectly, check and reassemble again.



6. INSTALL RING RETAINERS

Using needle nose pliers, install the three ring retainers into the oil holes of the O/D case.