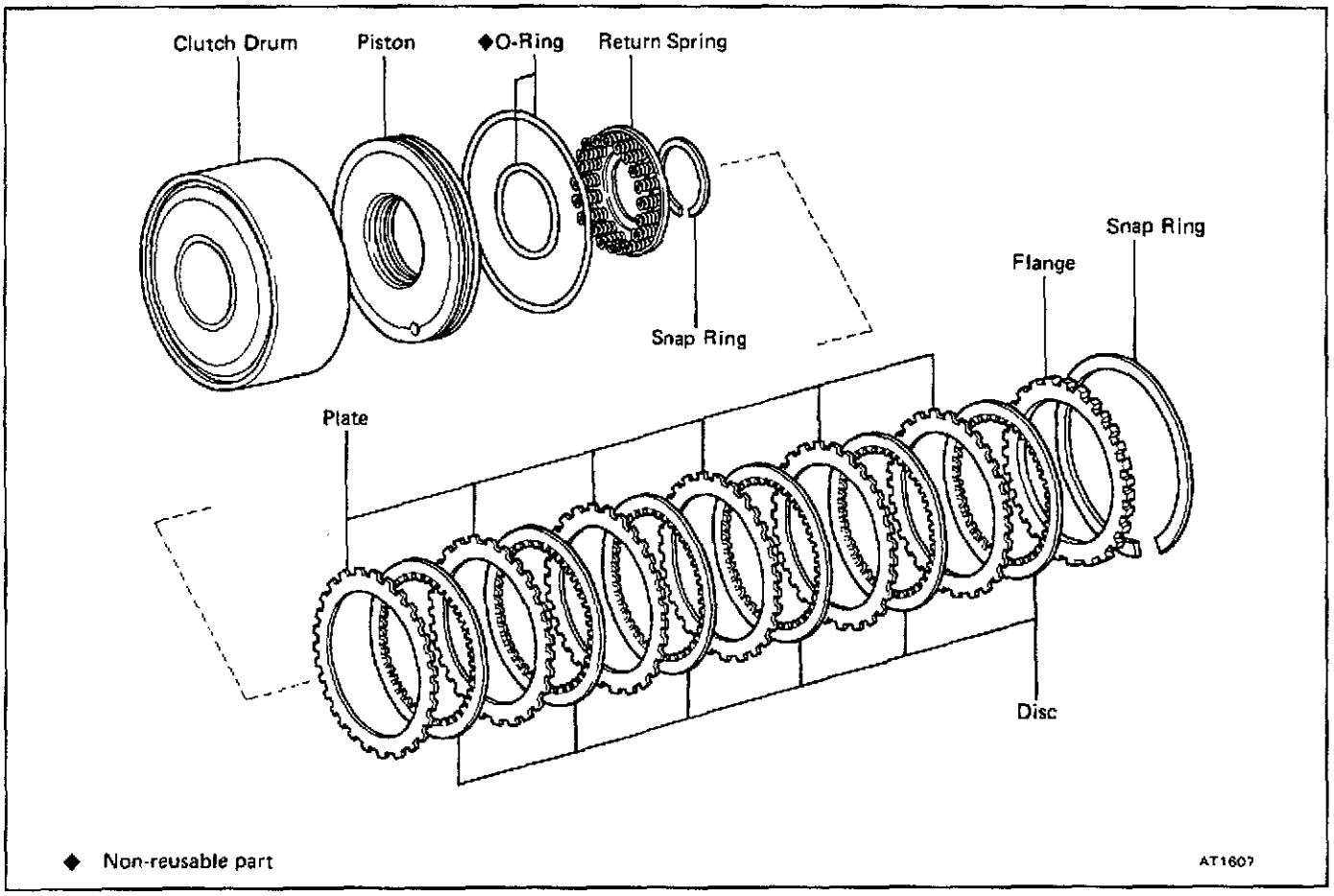
TRANSFER FRONT DRIVE CLUTCH

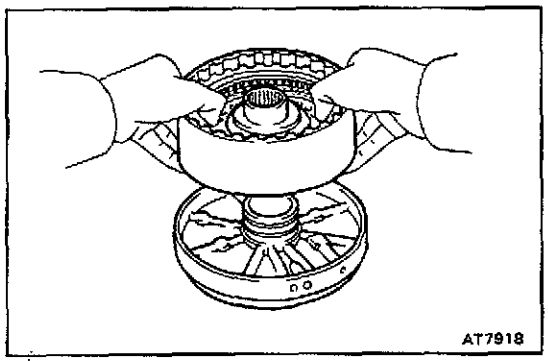
AT0JV–01

COMPONENTS



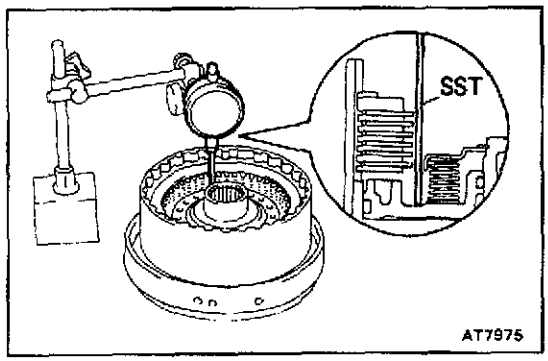
AT0JW–02

TRANSFER FRONT DRIVE CLUTCH DISASSEMBLY

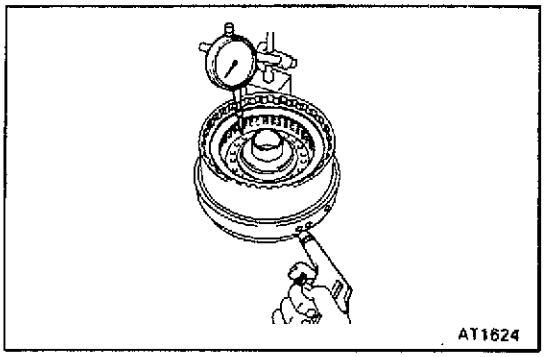


1. **CHECK PISTON STROKE OF TRANSFER FRONT DRIVE CLUTCH**

(a) Install the front drive clutch onto the transfer center support.



(b) Place SST and a dial indicator onto the transfer front drive clutch piston.
SST 09350–30020 (09350–06120)

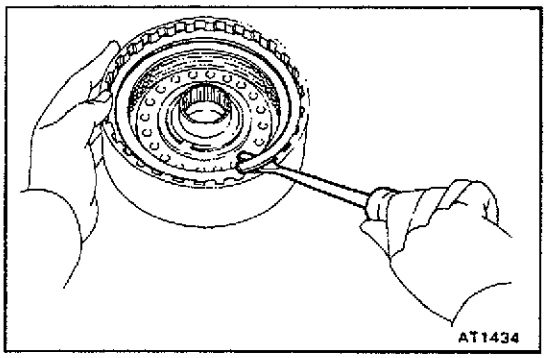


(c) Measure the piston stroke while applying and releasing compressed air (392 — 785 kPa, 4 — 8 kgf/cm², 57 — 114 psi).

Piston stroke:

2.38 — 3.22 mm (0.0937 — 0.1268 in.)

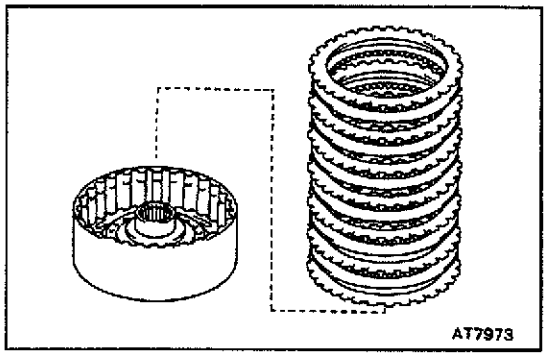
If the values are non—standard, inspect the discs.



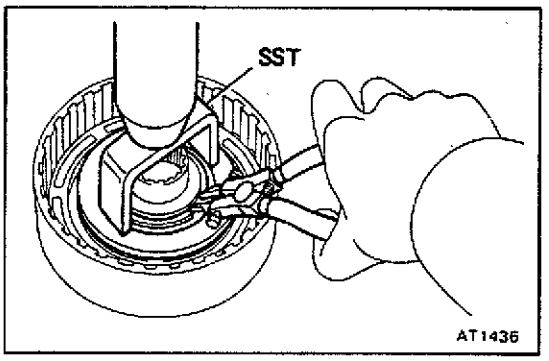
2. REMOVE FLANGE, PLATES AND DISCS

(a) Using a screwdriver, remove the snap ring from the clutch drum.

AT



(b) Remove the flange, 6 plates and 6 discs.

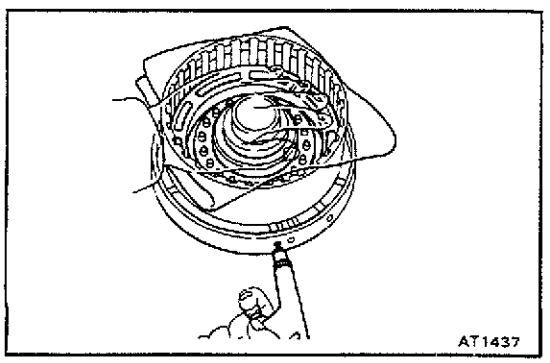


3. REMOVE PISTON RETURN SPRING

(a) Place SST on the return spring and compress the spring with a shop press.
SST 09320—89010

(b) Using snap ring pliers, remove the snap ring.

(c) Remove the piston return spring.



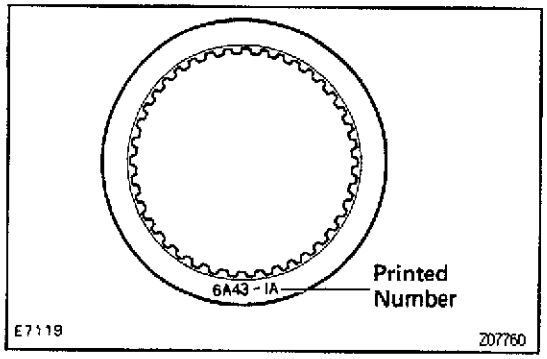
4. REMOVE TRANSFER FRONT DRIVE CLUTCH PISTON

(a) Place the front drive clutch on the transfer center support.

(b) Hold the front drive clutch piston with hand, apply compressed air to the center support to remove the piston.

(c) Remove the front drive clutch piston.

(d) Remove the O—rings from the piston.



TRANSFER FRONT DRIVE CLUTCH INSPECTION

AT0JX-02

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.

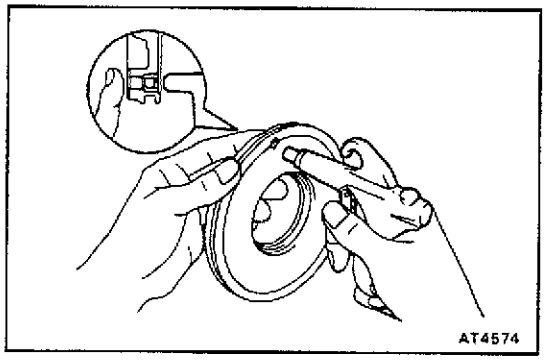
HINT:

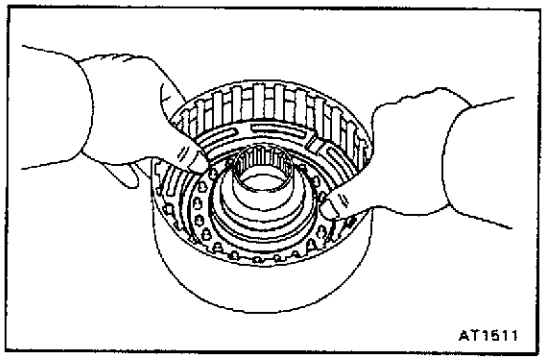
- If the lining of the disc is peeling off or discolored, or even if a part of the printed numbers are defaced, replace all discs.
- Before assembling new discs, soak them in ATF for at least 15 minutes.

2. CHECK FRONT DRIVE CLUTCH PISTON

(a) Check that the check ball is free by shaking the piston.

(b) Check that the valve does not leak by applying low–pressure compressed air.





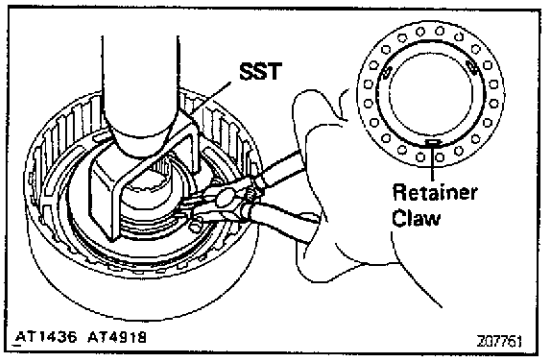
TRANSFER FRONT DRIVE CLUTCH ASSEMBLY

AT0JY-02

1. INSTALL PISTON TO TRANSFER FRONT DRIVE CLUTCH DRUM

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

(b) Being careful not to damage the O–rings, press the piston into the drum with both hands.

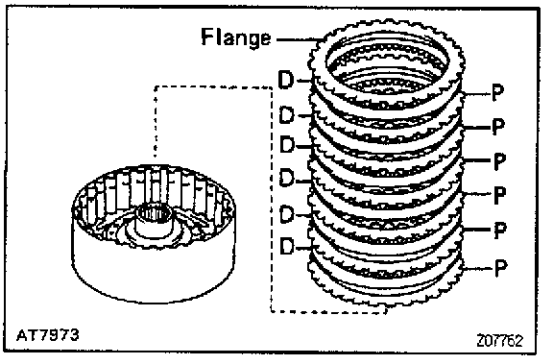


2. INSTALL PISTON RETURN SPRING

(a) Install the piston return spring.

(b) Place SST on the return spring, and compress the spring with a shop press.
SST 09320–89010

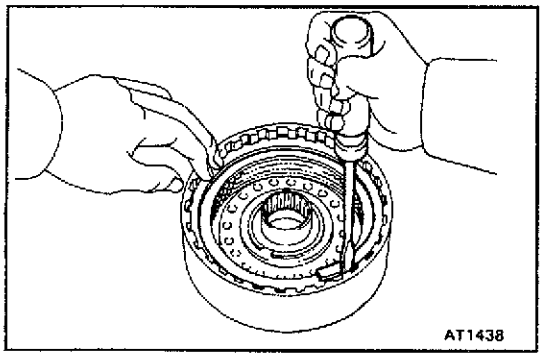
(c) Install the snap ring with snap ring pliers. Be sure the end gap of the snap ring is not aligned with the spring retainer claw.



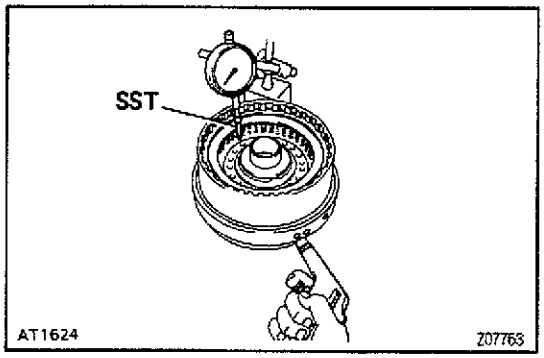
3. INSTALL PLATES, DISCS AND FLANGE

(a) Install the plates and discs.
Install in order: P = Plate D = Disc
P–D–P–D–P–D–P–D–P–D–P–D

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



(c) Install the snap ring with a screwdriver.



4. CHECK PISTON STROKE OF TRANSFER FRONT DRIVE CLUTCH

(a) Install the front drive clutch onto the transfer center support.

(b) Using SST and a dial indicator, measure the piston stroke while applying and releasing compressed air (392 — 785 kPa, 4 — 8 kgf/cm², 57 — 114 psi).
SST 09350—30020 (09350—06120)

Piston stroke:

2.38 — 3.22 mm (0.0937 — 0.1268 in.)

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

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