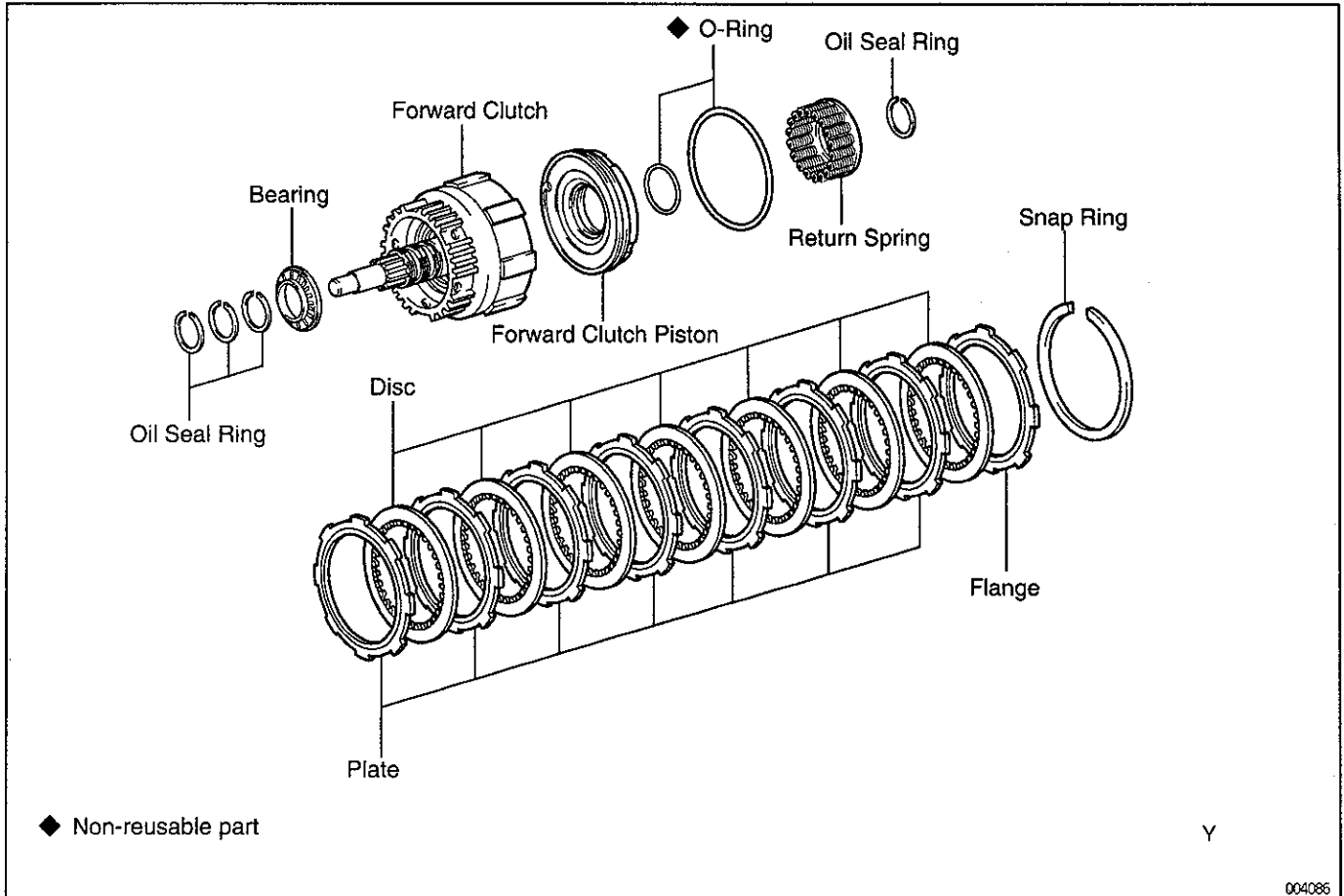
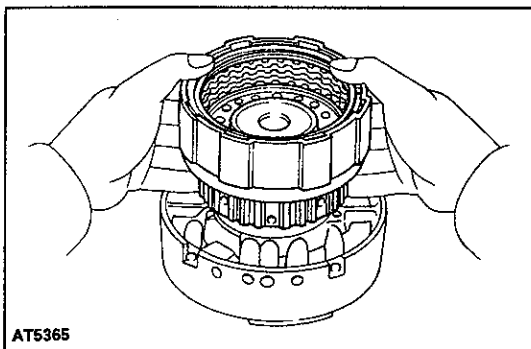


FORWARD CLUTCH COMPONENTS

AT0E0-02



004086



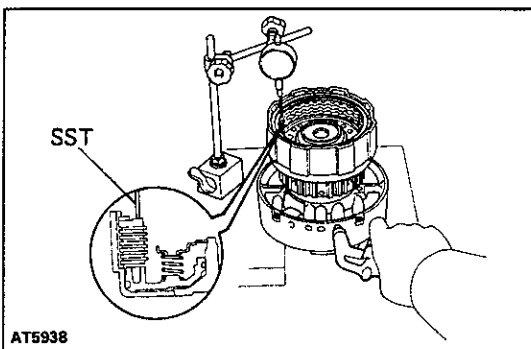
AT5365

FORWARD CLUTCH DISASSEMBLY

AT0E1-02

1. PLACE FORWARD CLUTCH INTO OVERDRIVE SUPPORT

- (a) Place wooden blocks, etc. to prevent forward clutch shaft from touching the work stand, and place the O/D support on them.
- (b) Place the forward clutch onto the O/D support.



AT5938

2. CHECK FORWARD CLUTCH PACK CLEARANCE

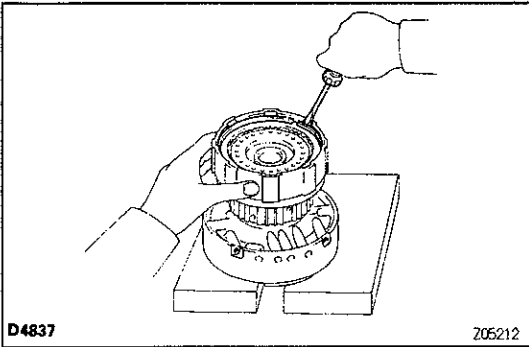
Using SST and a dial indicator, measure forward clutch pack clearance, applying and releasing the compressed air (186–206 kPa, 1.9–21. kgf/cm², 27–30 psi), as shown.

SST 09350–30020 (09350–06120)

Pack clearance:

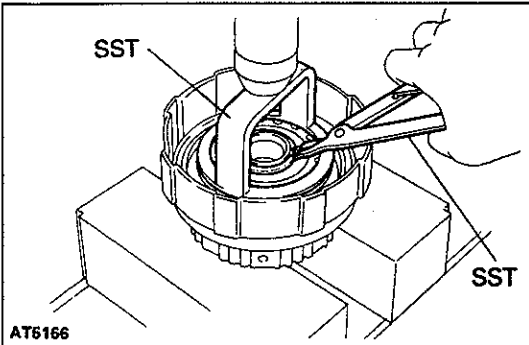
0.70–1.00 mm (0.0276–0.0394 in.)

If the values are nonstandard, inspect the discs.



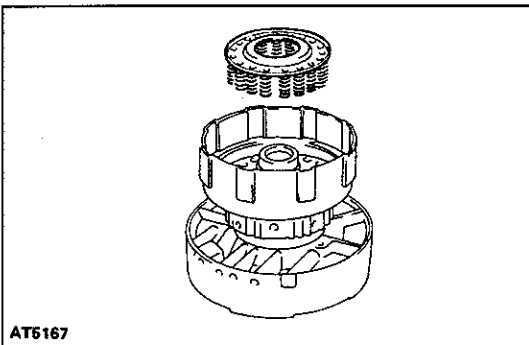
3. REMOVE FLANGE, PLATES AND DISCS

- (a) Using a screwdriver, remove the snap ring from the forward clutch drum.
- (b) Remove the flange, 7 plates and 7 discs.

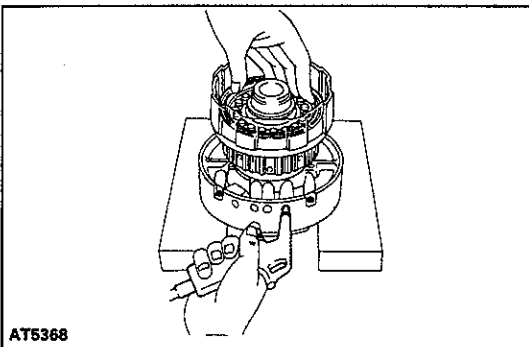


4. REMOVE PISTON RETURN SPRING

- (a) Place SST on the spring retainer and compress the return spring with a shop press.
SST 09350-30020 (09350-07040)
- (b) Using SST, remove the snap ring.
SST 09350-30020 (09350-07070)

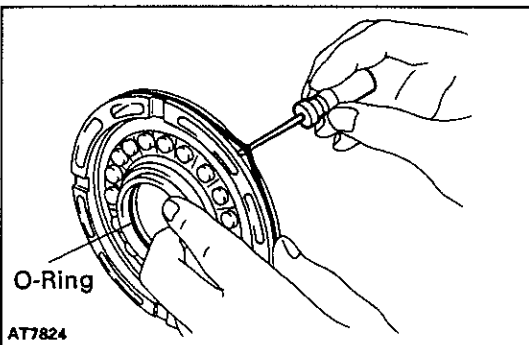


- (c) Remove the piston return spring.

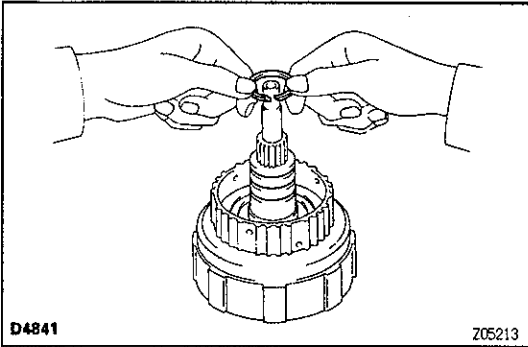


5. REMOVE FORWARD CLUTCH PISTON

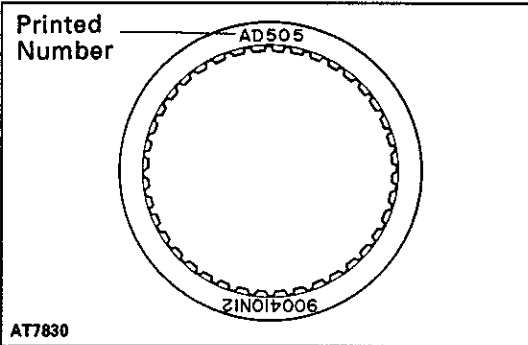
- (a) Place the forward clutch drum onto the O/D support.
- (b) Hold the forward clutch piston with hand, apply compressed air to the O/D support to remove the forward clutch piston.
- (c) Remove the forward clutch piston.



6. REMOVE 2 O-RINGS FROM PISTON



7. REMOVE 3 OIL SEAL RINGS FROM FORWARD CLUTCH



FORWARD CLUTCH INSPECTION

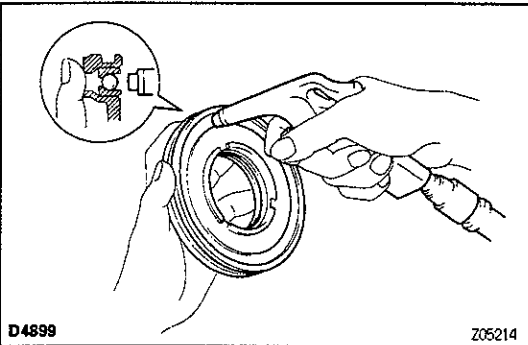
AT0E2-02

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.

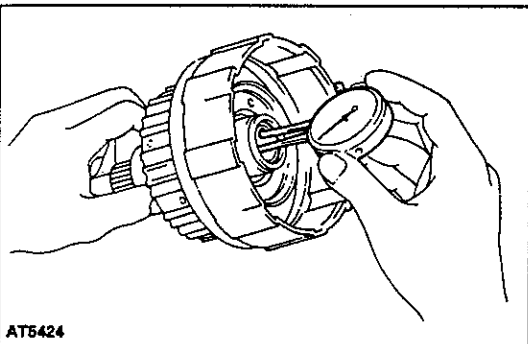
HINT:

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



2. CHECK FORWARD CLUTCH PISTON

- Check that the check ball is free by shaking the piston.
- Check that the valve does not leak by applying low-pressure compressed air.



3. CHECK FORWARD CLUTCH DRUM BUSHING

Using a dial indicator, measure the inside diameter of the forward clutch drum bushing.

Maximum inside diameter:

24.08 mm (0.9480 in.)

If the inside diameter is greater than the maximum, replace the forward clutch drum.