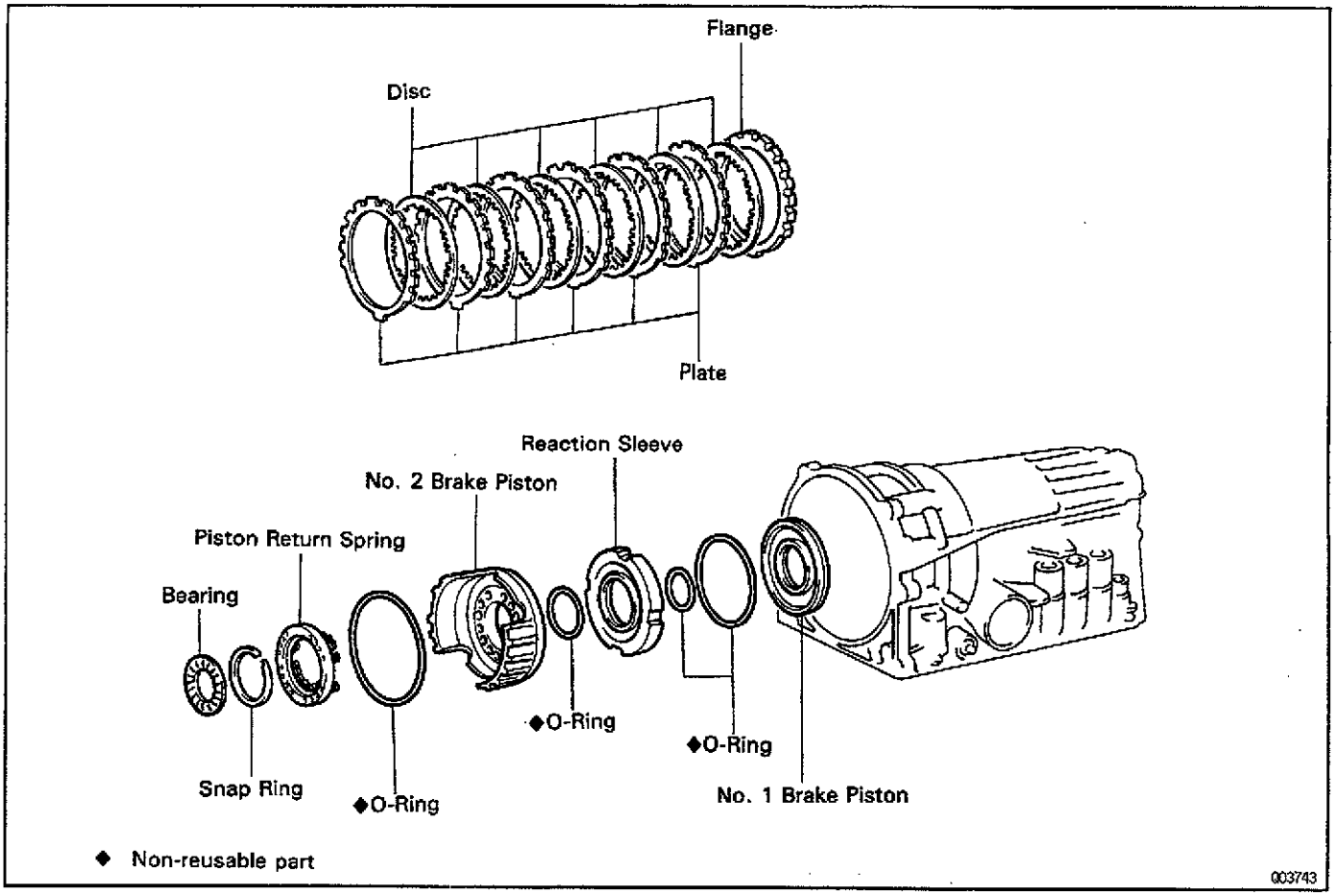
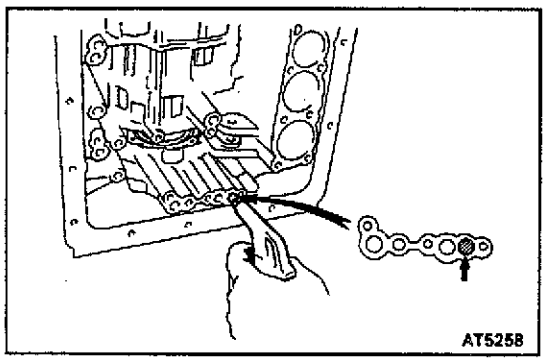
FIRST AND REVERSE BRAKE COMPONENTS

AT063–05



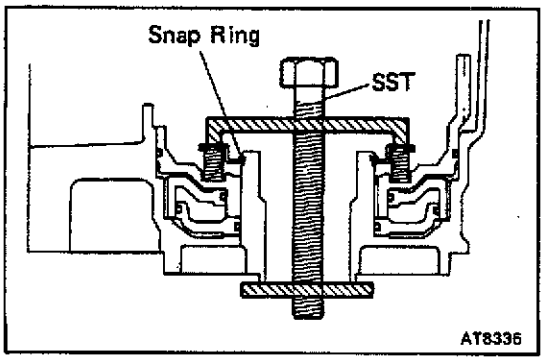


AT0C9–02

FIRST AND REVERSE BRAKE DISASSEMBLY

1. CHECK PISTON STROKE OF FIRST AND REVERSE BRAKE

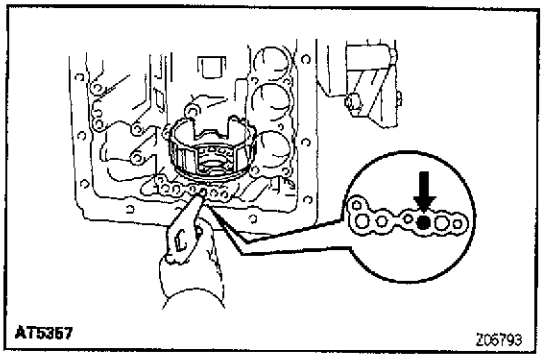
Make sure the first and reverse brake pistons move smoothly when applying and releasing the compressed air into the transmission case.



2. REMOVE PISTON RETURN SPRING

(a) Place SST on the spring retainer and compress the return spring.
SST 09350–30020 (09350–07050)

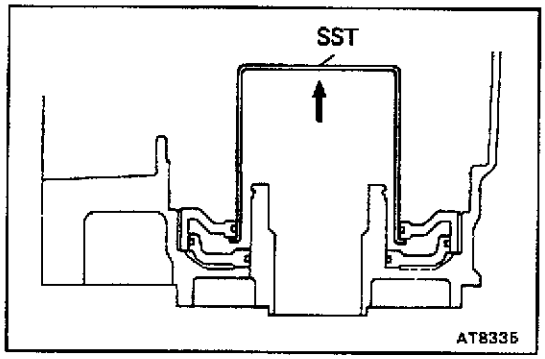
(b) Using SST, remove the snap ring.
SST 09350–30020 (09350–07070)



3. REMOVE NO.2 BRAKE PISTON

(a) Hold No.2 brake piston with hand, apply compressed air to transmission case to remove No.2 brake piston.
HINT: If the piston does not pop out with compressed air, lift the piston out with needle–nose pliers.

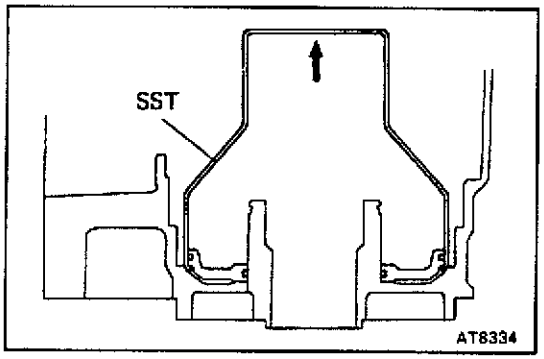
(b) Remove the O–ring from No.2 brake piston.



4. REMOVE REACTION SLEEVE

(a) Using SST, remove the reaction sleeve.
SST 09350–30020 (09350–07080)

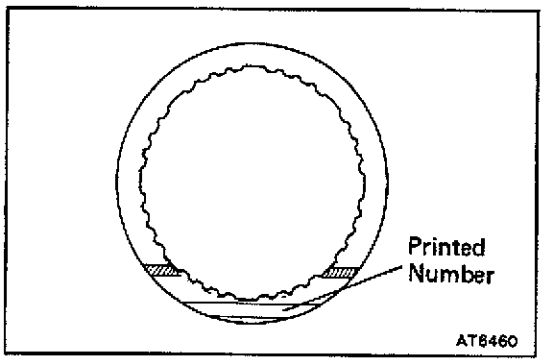
(b) Remove the O–ring from the reaction sleeve.



5. REMOVE NO.1 BRAKE PISTON

(a) Using SST, remove the No.1 brake piston.
SST 09350–30020 (09350–07090)

(b) Remove 2 O–rings from the No.1 piston.



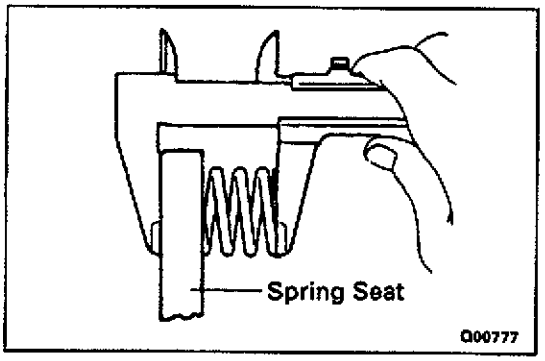
FIRST AND REVERSE BRAKE INSPECTION

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 are defaced, replace all discs.
- Before assembling new discs, soak them in ATF for at least 15 minutes.

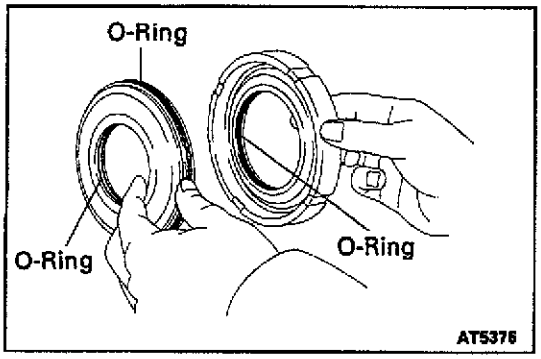


2. CHECK PISTON RETURN SPRING

Check the return spring free length together with the spring seat.

Standard free length:

12.9 mm (0.508 in.)



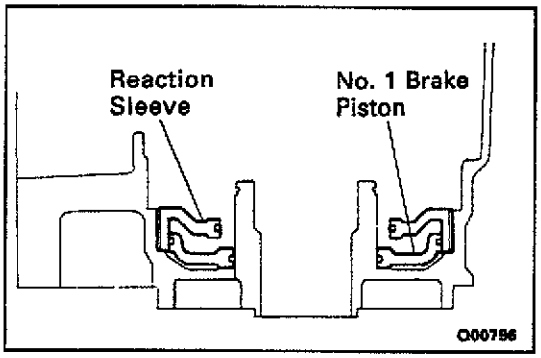
AT0CD-02

FIRST AND REVERSE BRAKE PISTON ASSEMBLY

1. INSTALL NO.1 BRAKE PISTON

(a) Coat the 3 new O–rings with ATF.
(b) Install the 2 O–rings on No.1 brake piston.
(c) Install the O–ring on the reaction sleeve.
(d) Install the No.1 brake piston on the reaction sleeve.

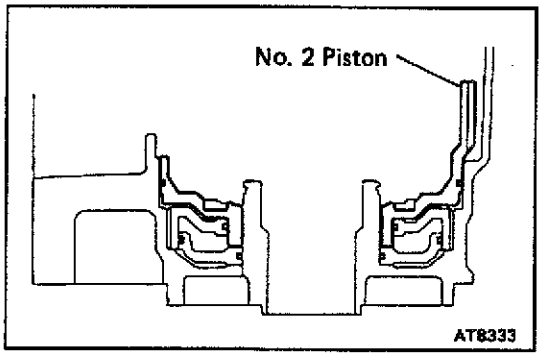
AT



2. INSTALL REACTION SLEEVE AND NO. 1 BRAKE PISTON TO TRANSMISSION CASE

With the No.1 brake piston underneath (the rear side), install the brake reaction sleeve and No.1 brake piston to the transmission case.

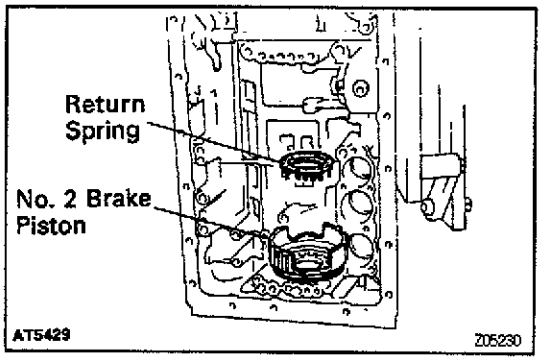
NOTICE: Be careful not to damage the O–rings.



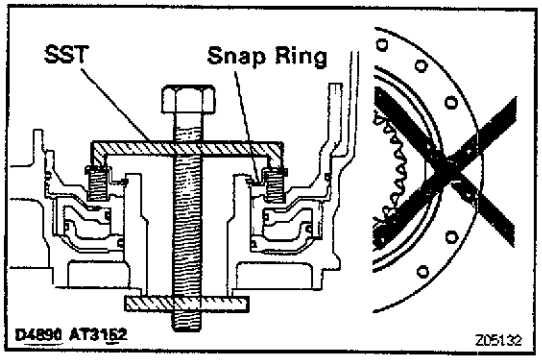
3. INSTALL NO.2 BRAKE PISTON

(a) Coat the new O–ring with ATF.
(b) Install the O–ring on No.2 brake piston.
(c) With the spring seat of the piston upwards (the front side), place the piston in the transmission case.

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

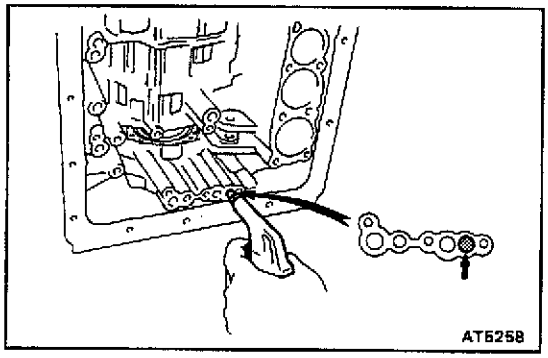


(d) Place the piston return spring onto the No.2 brake piston.



4. INSTALL PISTON RETURN SPRING

(a) Place SST on the spring retainer and compress the return spring.
SST 09350–30020 (09350–07050)
(b) Using SST, install the snap ring.
SST 09350–30020 (09350–07070)



5. **CHECK PISTON STROKE OF FIRST AND REVERSE BRAKE**

Make sure the first and reverse brake pistons move smoothly when applying and releasing the compressed air into the transmission case.