

Boot/Piston Replacement Procedures

DISASSEMBLY PROCEDURE

(Refer to Figure 1)

CAUTION

Damage to internal components can result if force is applied to pedal after valve assembly has been separated from pedal and base assembly.

NOTE

It is not necessary to disconnect hydraulic lines from valve assembly.

1. To prevent contamination to the brake valve or hydraulic system, thoroughly clean the pedal and base assembly, brake valve and surrounding area of all dirt, grease, oil, etc.
2. Remove system pressure from accumulators by repeatedly depressing pedal to apply brakes. This should be done as many times as necessary to remove pressure.
3. Loosen cap screws (1) and carefully lower valve assembly from pedal and base assembly (3). **NOTE: Cap screw (1) and washers (2) need not be removed.**
4. Remove piston/boot assembly (4) from valve assembly (5). It is not necessary to remove springs.
5. Clean area of valve flange where boot/piston assembly was removed.

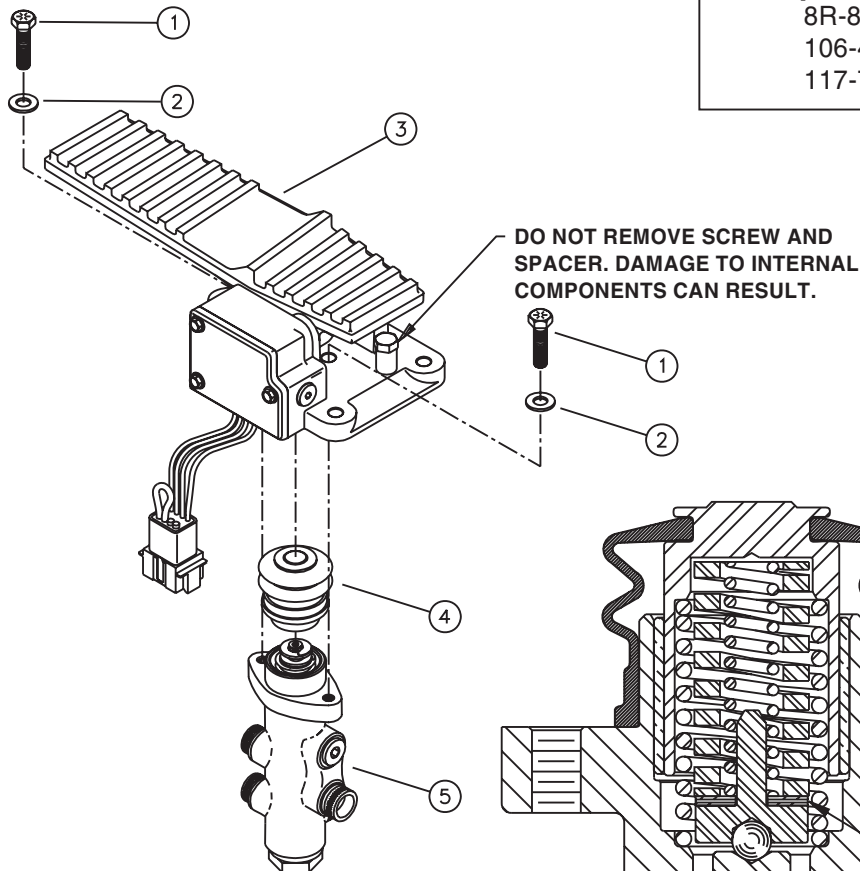


FIGURE 1

IF EXCESSIVE OIL IS PRESENT IN THE SPRING CAVITY INSTALL NEW SEAL KIT (CATERPILLAR P/N 4E-5550).

IF EXCESSIVE PAINT CHIPS ARE PRESENT IN THE SPRING CAVITY, REMOVE SPRINGS AND CLEAN THE COMPONENTS ACCORDINGLY. FLUSH SPRING CAVITY WITH MINERAL BASE SOLVENT AND WIPE DRY. LIGHTLY LUBRICATE SPRINGS AND OTHER COMPONENTS WITH MINERAL BASE HYDRAULIC OIL. SPRINGS AND OTHER COMPONENTS REMOVED MUST BE REPLACED IN THE PROPER ORDER (See Figure 2).

ASSEMBLY PROCEDURES

(Refer to Figure 1)

1. Clean and lubricate new piston/boot assembly (4) with clean mineral base hydraulic oil.
2. Carefully install new piston/boot assembly (4) on valve assembly (5). **NOTE: Place boot tightly against valve flange (See Figure 2).**
3. Attach valve assembly to base and pedal assembly by raising valve assembly to base while guiding boot/piston assembly (4) through pilot hole in base. **NOTE: Be careful not to tear or damage boot.**
4. Install cap screws (1) and washers (2). Torque cap screws 24.4 - 29.8 N-m (18 - 22 lb-ft).

Caterpillar Brake Valve Numbers:

8R-8529	104-3475
106-4842	106-5516
117-7624	

NOTE

Do Not mix internal parts between other valves.

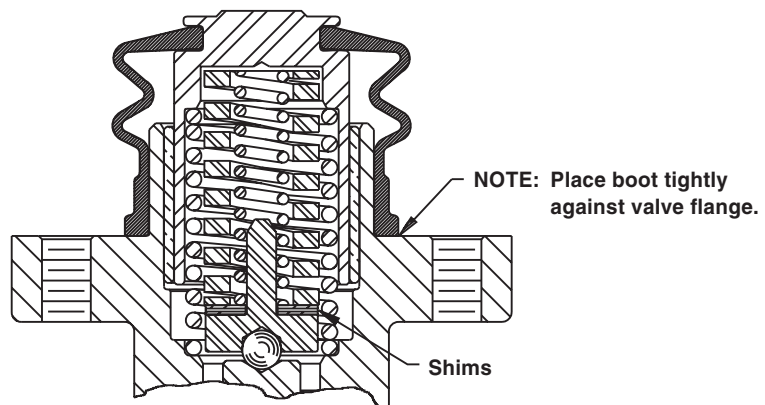


FIGURE 2