



MASTER CYLINDER

Service Instructions

DISASSEMBLY

(Refer to Figures 1 and 2)

1. Remove the master cylinder from the machine by disconnecting the necessary fluid lines. Disconnect the push rod and remove the mounting bolts. Drain fluid from the assembly.
2. Remove plug (1) and spring (3) from housing (8). Remove o-ring (2) from housing (8) bore.
3. Remove piston assembly (4) from housing (8). Remove cups (5 & 7) from piston (6). **NOTE: Be careful not to scratch or mar piston (6).**
4. Remove filler caps (9 & 11) and gaskets (10) from housing (8).
5. Remove plug assembly (12) and gasket (19) from inside housing (8) reservoir.
6. Remove retaining ring (18), retainer (17), spring (16), ball (15), and o-ring (14) from plug (13). Note direction of spring (16). See Figure 2.

ASSEMBLY

(Refer to Figures 1 and 2)

LUBRICATE ALL RUBBER COMPONENTS FROM REPAIR KIT WITH CLEAN TYPE FLUID USED IN THE SYSTEM.

1. Clean all parts thoroughly before assembling.
2. Install new o-ring (14), new ball (15), new spring (16), new retainer (17), and new retaining ring (18) in plug (13). Note direction of spring (16). See Figure 2.
3. Install new gasket (19) and plug assembly (12) in housing (8) reservoir. Torque plug assembly (12) 40.7-47.5 N·m (30-35 lb·ft).
4. Install new gasket (10) and filler cap (11) on housing (8).
5. **NOTE: Before installing filler cap (9) be sure the filler cap breather hole is free of all contaminants. Use air pressure to clean and dry this hole.** Install new gasket (10) and filler cap (9) on housing (8).
6. Install new cups (5 & 7) on piston (6). Note direction of cup (7). See Figure 2. **NOTE: Be careful not to scratch or mar piston (6).**
7. Install new o-ring (2) in housing (8) bore.

Lubricate threads on plug (1). Install spring (3) and plug (1) in housing (8). Torque plug (1) 67.8-108.5 N·m (50-80 lb·ft).

8. Install unit on vehicle and connect fluid lines. Fill the reservoir and bleed system of air. See form 81-001-002 instructions to bleed this cylinder. Refer to machine manufacture specifications to bleed the machine brake system. Tighten fittings if leaks occur. Make several applications to be sure the brake valve is working properly. **NOTE: All fittings must be inspected for leaks and tightened if leaks occur.**

9. After bleeding the system, fill the reservoir to within 12.7 mm (0.50 in) of the top. Install filler plugs and torque 33.9-47.5 N·m (25-35 lb·ft).

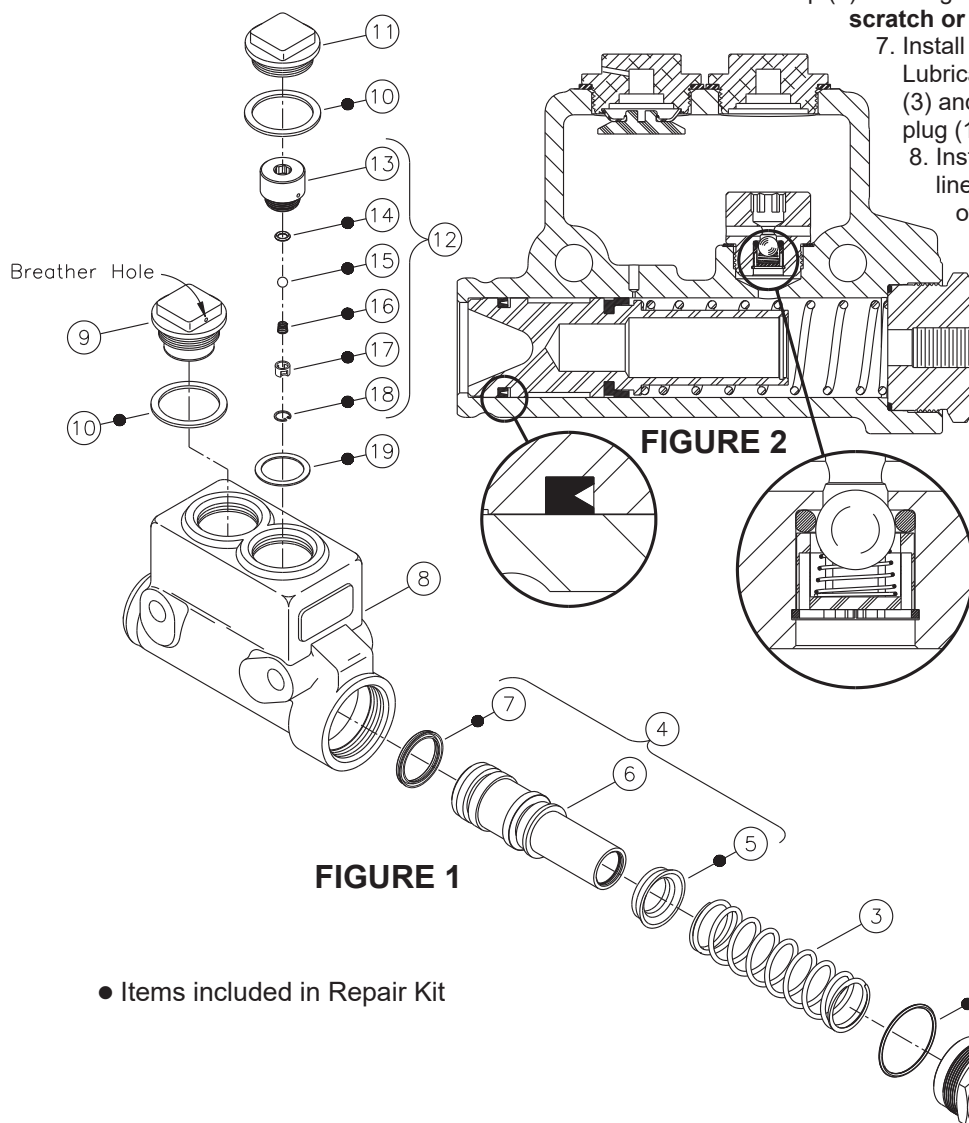


FIGURE 1

● Items included in Repair Kit

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