

Two-stage MASTER CYLINDER

MICO®

**SERVICE LITERATURE FOR
REPAIR KIT 02-001-279 ARE
NOT AVAILABLE AT THIS
TIME. USE THIS SHEET AS
A REFERENCE FOR SERVICE.**

Service Instructions

DISASSEMBLY

(Refer to Figure 1)

1. Drain fluid from unit before disassembling.
2. Remove push rod (30) and boot (31) from housing (19).
3. Remove upper tube nut on tubing assembly (25) from elbow fitting (26).
4. Remove line bolt (1), gaskets (2 & 4) and fitting block (3). Tubing assembly (25) need not be removed from fitting block.

⚠ CAUTION

End plug assembly is under tension of spring (9).

5. Remove end plug (5).
6. Spacer (7) should follow end plug assembly (5) as it is removed. Remove o-ring (8) from housing (19) and o-ring (6) from spacer (7).
7. Remove spring (9) from housing (19).
8. Remove piston assembly (18) from housing (19) by pushing on piston assembly with a wooden dowel from the small diameter end of housing.
9. Remove cups (15 & 17) from piston (16). Note direction of cups (15 & 17). **NOTE: Be careful not to scratch or mar piston (16).**
10. Depress piston (11) and remove retaining ring (10). Spring (14) will force piston (11) out of piston (16) bore. Hold firmly as piston (11) is preloaded. Remove cup (12) from piston.
11. Remove retainer (13) and spring (14) from piston (16).
12. Remove relief valve assembly (24) from housing (19). Remove end cap (23). Remove o-ring (22) from end cap. **NOTE: End cap is under tension of spring (21).**
13. Remove spring (21).
14. Remove filler cap (28) and gasket (27) from housing (19).

ASSEMBLY

(Refer to Figure 1)

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

1. Clean all parts thoroughly before assembling.
2. Install retainer (13) on end of new spring (14). Install new spring (14) into piston (16).
3. Install new cup (12) on piston (11).
4. Insert piston (11) into piston (16) with cup (12) against retainer (13). Depress piston and install new retaining ring (10).
5. Install new cup (15) and new cup (17) on piston (16). Note direction of cups. **NOTE: Be careful not to scratch or mar piston (16).**

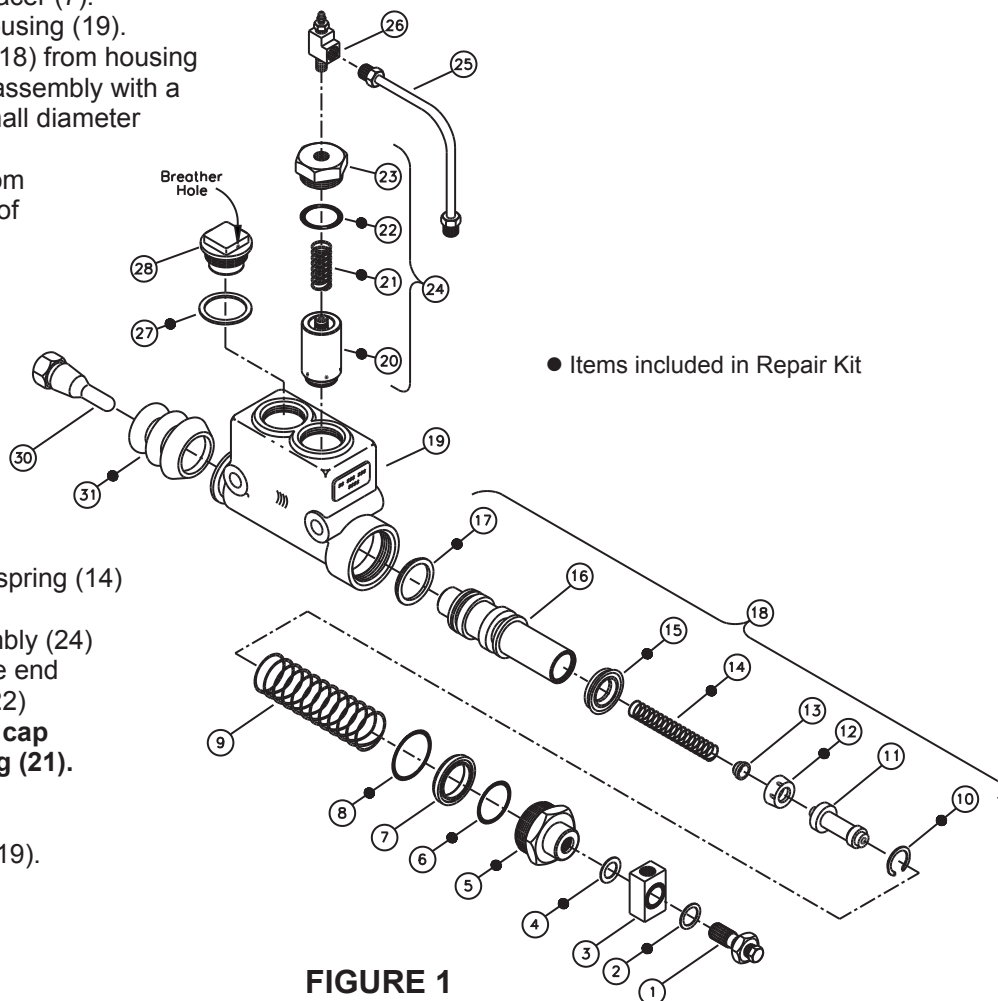


FIGURE 1

6. Install piston assembly (18) into housing (19).
Note direction of piston assembly.
7. Install spring (9) over piston assembly (18).
8. Install new o-ring (8) into pocket of housing (19).
9. Install new o-ring (6) on spacer (7).
10. Position spacer (7) on spring (9) inside of housing (19). Note direction of spacer (7).
11. Carefully guide spacer (7) into housing (19) and begin threading new end plug assembly (5) by hand.
12. Torque new end plug assembly 67.8-108.5 N·m (50-80 lb·ft).
13. Insert new piston and body assembly (20) into housing (19).
14. Install new spring (21).
15. Install new o-ring (22) on end cap (23).
16. Install end cap (23) into housing (19) and torque end cap 88.1-101.7 N·m (65-75 lb·ft).
17. Assemble new gaskets (2 & 4), fitting block (3) and line bolt (1) into new end plug assembly (5). Torque line bolt 47.5-61.0 N·m (35-45 lb·ft).
NOTE: Hold fitting block (3) in upright fixed position while tightening line bolt.
18. Install upper tube nut on tubing assembly (25) into elbow fitting (26). Torque upper and lower tube nuts 12.2-20.3 N·m (9-15 lb·ft).
19. **NOTE: Before installing filler plug (28) be sure the filler plug breather hole is free of all contaminants. Use air pressure to clean and dry this hole.** Install new gasket (27) and filler plug (28) on housing (19).
20. Install push rod (30) and new boot (31) on housing (19).

MICO could not possibly know of and give advice with respect to all conceivable applications in which this product may be used and the possible hazards and/or results of each application. MICO has not undertaken any such wide evaluation. Therefore, anyone who uses an application which is not recommended by the manufacturer, first must completely satisfy himself that a danger will not be created by the application selected, or by the particular model of our product that is selected for the application.

MICO has made every attempt to present accurate information in catalogs, brochures and other printed material. MICO can accept no responsibility for errors from unintentional oversights that may exist. Due to a continuous program of product improvement, materials, specifications, and product documentation are subject to change without notice or obligation.

MICO is a trademark and registered trademark of MICO, Inc. MICO is registered in the U.S. Patent and Trademark Office as well as in Australia, Canada, Indonesia, Japan, Peoples Republic of China, South Korea, and the European Community.



Innovative Braking and Controls Worldwide

MICO, Incorporated

1911 Lee Boulevard / North Mankato, MN U.S.A. 56003-2507

Tel: +1 507 625 6426 **Fax:** +1 507 625 3212

Form No. 81-001-048 Revised 1995-12-01

www.mico.com