



Mastercool[®]
"World Class Quality"

71201-001A-REPK

TOTAL REPAIR KIT FOR 71475, 71480, 71300, 71400, 71450

71201-18-SR
71201-18-B0
71201-001A-49

Snap Ring "C-Clip" (FIG. A)
Back Up O-Ring for Shaft (FIG. J)
Back Check Valve (FIG. S)

71201-18-0
71500-40K-NEW
71500-001A-1

O-Ring for Shaft (FIG. K)
New Valve Assembly Kit (FIG. H1)
Handle Shaft Assembly (FIG. N)

71201-RE-KIT

71201-18-0
71201-18-B0
71201-18-SR

PISTON SHAFT SEAL REPAIR KIT

O-Ring for Shaft (FIG. K)
Back Up O-Ring for Shaft (FIG. J)
Snap Ring "C-Clip" (FIG. A)

REPLACEMENT

1. Remove snap ring "c-clip" (Fig. A)
2. Remove adapter holder. (Fig. B)
3. Unscrew yolk assembly. (Fig. C)
4. Remove allen set screw using a 2.5mm allen wrench. (Fig. D)
5. Secure tool upright with yoke assembly facing upward.
6. Unscrew piston cap. (Fig. E)
7. Remove spring. (Fig. G)
8. With OPEN/CLOSED (Fig. H) valve closed, remove piston shaft. (Fig. I)
9. Remove top and bottom o-rings from piston shaft. (Fig. J & K)

REASSEMBLY

1. Install new o-rings on piston shaft. (Fig. I) With shaft pointing upward (small diameter facing upward), first install backup seal (square seal Fig. J) with bevel facing down. Second, install round o-ring (Fig. K). The round o-ring should be facing the bottom of the piston shaft.
2. Open OPEN/CLOSE valve. (Fig. H)
3. Carefully push in piston shaft. (Fig. I)
4. Reinstall spring. (Fig. G)
5. Reinstall piston cap (Fig. E) – screw in until tight.
6. Reinstall allen set screw. (Fig. D)
7. Reinstall yolk assembly. (Fig. C)
8. Reinstall adapter holder. (Fig. B)
9. Reinstall snap ring "c-clip." (compress w/ pliers if needed) (Fig. A)
10. Remove tool from vice, and hold with the yolk portion facing downward.
11. Close OPEN/CLOSE (Fig. H) valve and pump handle to build hydraulic pressure.
12. Open OPEN/CLOSE (Fig. H) valve and release pressure.
13. REPEAT 11 and 12 two times (This will bleed excess air from hydraulics.)

CHECK OIL LEVEL

1. Secure tool upright with the handle facing upward.
2. Unscrew reservoir cover portion of tool. (Fig. L)
3. Remove cap on oil reservoir.
4. Add oil if oil level is low. Oil level should be even with the top of the oil reservoir.
5. Reinstall cap.
6. Reinstall reservoir cover.
7. Check for proper operation.

OPEN/CLOSE VALVE REPLACEMENT (71500-40K-NEW)

1. Remove open/close valve and silver ball. (Fig. H1)
2. Install silver ball.
3. Install open/close valve.

SHAFT HANDLE ASSEMBLY (71500-001A-1)

1. Remove front pin c-clip and front pin. (Fig. 01)
2. Slide handle forward and remove from handle shaft assembly.
3. Remove handle shaft assembly. (Fig. N)
4. Install handle shaft assembly.
5. Reinstall handle on handle shaft assembly.
6. Reinstall front pin and c-clip. (Fig. 01)

CHECK VALVE REPLACEMENT (71201-001A-49)

1. Open OPEN/CLOSE valve. (Fig. H)
2. Unscrew reservoir cover. (Fig. L)
3. Remove cap on oil reservoir and drain oil. (Fig. P)
4. Remove oil reservoir o-ring. (Fig. Q)
5. Remove oil reservoir. (Fig. R)
6. Remove check valve. (Fig. S)
7. Install new check valve. (Fig. S)
8. Reinstall oil reservoir. (Fig. R)
9. Reinstall oil reservoir o-ring. (Fig. Q)
10. Fill oil reservoir with a quality grade anti-ware hydraulic oil and reinstall oil reservoir cap. (Fig P)

