MC-250 O-ring Replacement

O-RING REPLACEMENT

Supplies Required

- Wrenches
- Clean rags
- Extra fine emery paper
- Dextron II or Dextron III

Procedure

1. Remove the spherically seated cylinder platen out of the piston. Remove the lower platen off the bottom crosshead.

2. Place a 6x12in concrete cylinder inside the load frame. You will use it to set the piston on.

3. Place a rag under the hydraulic hose fitting on the flow control valve mounted on top of the pump.

4. Loosen the hydraulic hose fitting. You do not need to remove the hose, just loosen it to break the air lock.

5. On the top of the machine, loosen the 3/8in nuts (Part 1) to the end of the tension rod threads (Part 2) and stop. Refer to Figure 1 on page 2.

CAUTION: Do not remove the nuts.

6. Place one hand on each bolt (Part 3) and push the piston down about 2in. Remove both bolts (Part 3) out of the piston return springs (part 4).

7. Put the bolts back into the piston. Carefully, with one hand on each bolt, push the piston out of the cylinder. Set it on top of the concrete cylinder and then carefully remove it from the load frame.

CAUTION: Be careful not to drop the piston.

8. Wipe out the inside of the cylinder with a clean rag.

9. Look up inside the cylinder for a groove cut in the side of the cylinder. Insert a small blade screwdriver into the groove and carefully remove the white back-up ring and black o-ring.

250 Series Concrete Compression Machine with Pro Controller

10. Use a clean rag to clean out the o-ring groove.

11. Stretch the black o-ring over the piston to shape it for easier insertion into the cylinder.

12. Push the new o-rings into the cylinder. Place the black o-ring ABOVE the white back-up o-ring in the same groove.

IMPORTANT: Make sure the o-rings are fully seated in the groove.

13. Wipe the bottom half of the cylinder and new o-ring with clean Dextron II or Dextron III.

14. Inspect the piston for scratches. If any are present, buff them off with extra fine emery paper, then wipe clean.

15. Clean the piston with a clean rag then coat the end of the piston with Dextron II or Dextron III.

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16. Center the piston over the cylinder opening. Keeping it level, re-install the piston into the cylinder.

NOTE: If you don't keep the piston level, it will be very hard to get it back inside the cylinder.

17. Place a block of wood or similar under the piston to hold it up inside the cylinder.

NOTE: Do not hold the piston up with anything that can damage it.

18. Remove both bolts (Part 3) out of the piston. Place the bolts through the ring on the end of the return springs (Part 4) and put them back into the piston. Tighten the bolts.

19. On the top of the machine, tighten both 3/8in nuts (Part 1). Alternate tightening equally, about 1/2in of thread each time until the nuts are tight and the piston has been pulled all the way back into the cylinder.

20. Check each bolt to see that you have an equal amount of thread used on each nut rod.

21. Re-tighten the hydraulic hose fitting on the flow control valve.

CAUTION: Do not over-tighten the hydraulic hose fitting. Tighten it and then run the machine. Re-tighten it until it stops leaking.

22. Run the machine and check for leaks.

Call Gilson Technical Support with any questions or problems at 800.444.1508

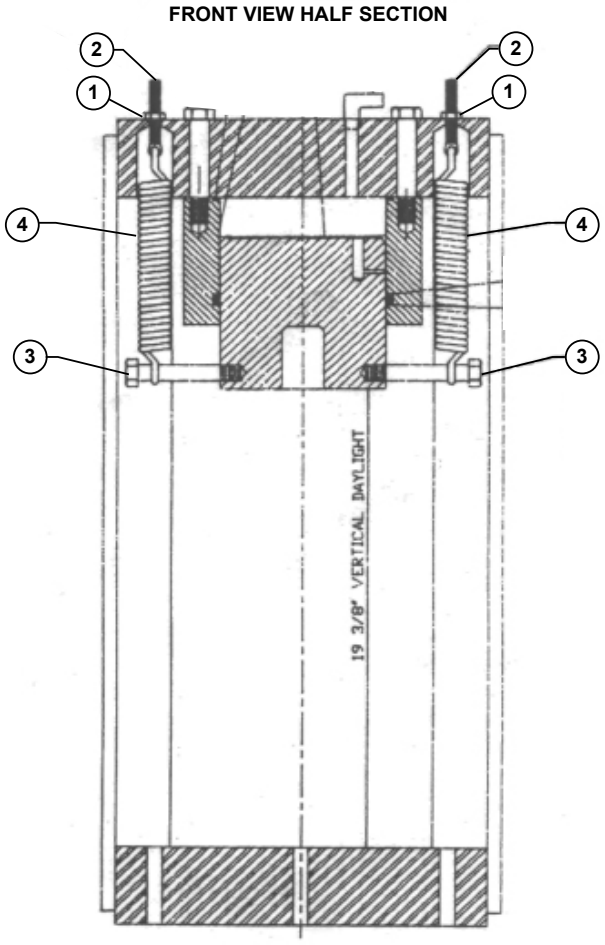

Figure 1

Repair Parts

Model	Description	Part Number
MC-250	6in o-ring	RPMC-250-4
	6in backup o-ring	RPMC-250-18