



### For replacement of parts 1 through 16

1. Remove Dual Converter Knob Screw (15)
2. Remove Dual Converter Knob (14)
3. Remove the Dual Converter Valve (12) by pushing the stem through the Valve Housing (11)
4. Remove the two Valve Housing Screws (3)
5. Remove the Valve Housing (11) from the Pump Body
6. With your thumb, push the Piston Assembly (7) into the Pump Body cylinder. This will compress the Piston Spring (6) and cause the Piston Rod (5) to extend from the back of the Pump Body assembly
7. With the Piston Rod extended, remove the Piston Rod Pin and Pump Handle (1)
8. Remove the Piston Assembly (7) from the Pump Body cylinder
9. Remove the two Back Cap Screws (3)
10. Remove the Back Cap (2)
11. Note the direction of the Piston Rod Seal (4) the new seal must be installed in the same direction (cup side inward) for the pump to function properly
12. Remove the Piston Rod Seal (4)
13. Lightly lubricate\* the new Piston Rod Seal (4) and install into Pump Body
14. Replace the Back Cap (2), and secure it with the two new Back Cap Screws (3)
15. Clean and lightly lubricate the inside of the Pump Body cylinder
16. Lightly lubricate the new Piston Seal (8) and install onto the new Piston Assembly (7)
17. Assemble new Piston Spring (6) onto new Piston Assembly (7) and install into Pump Body cylinder
18. With your thumb, push the Piston Assembly (7) into the Pump Body cylinder. This will compress the Piston Spring (6) and cause the Piston Rod to extend from the back of the Pump Body assembly

\* Lubricate with Silicone Oil

## MVM8903 Pump Rebuild Kit



19. Assemble the pump handle (1) onto the Piston Rod end and install the new Piston Rod Pin (5)
20. Install the new O-ring (9) onto the new Front Valve Housing (11)
21. Install new Duckbill Valve (10) into the new Valve Housing (11)
22. Install new Valve Housing (11) onto the Pump Body using two new Valve Housing Screws (3)
23. Lightly lubricate the three new Dual Converter Valve O-rings (13), and install them onto the new Dual Converter Valve (12)
24. Carefully slide the Dual Converter Valve Assembly into the new Valve Housing with the stem extending through the valve housing
25. Properly align the new Dual Converter Knob (14) with the notch on the end of the Dual Converter Valve stem, and install the knob. Secure it with the new Dual Converter Knob Screw (15)
26. Install new Schrader Valve (16) into the new Valve Housing (11) using the Schrader Valve Tool (23)
27. Remove the Lever Pin Retaining Ring (18), Lever Pin (19), and Lever (17) from the old Valve Housing (11) and install onto the new Valve Housing

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