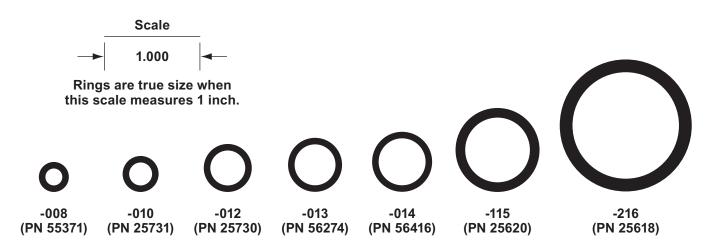
Western Products PO Box 245038 Milwaukee, WI 53224-9538 www.westernplows.com

49340 - Solenoid ISARMATIC® Rework Kit - 1-1/2"

Parts List & Installation Instructions

PARTS LIST

O-Ring Size Chart



See page 3 for location of O-rings.

Torque Specifications		
Base Lug	5/16-18 x 1-1/4	180–216 in-lb
Pump	5/16-18 x 2-1/4	175–185 in-lb
Front Motor	7/16-14 x 1-1/4	180–240 in-lb
Rear Motor	7/16-14 x 1-1/2	180–240 in-lb
Valve Manifold	1/4-20 x 3-1/4	50–55 in-lb
Coil Retaining Nut		48–60 in-lb
Cartridge to Manifold		120 in-lb

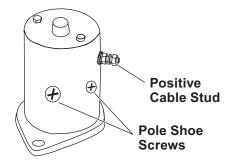
INSTALLATION INSTRUCTIONS

Motor Installation Without Ground Stud or **Motor Frame Hole for Ground Cable**

Older motors without a ground stud or motor frame hole for the ground cable should be modified to improve the ground circuit connection at the motor. This modification can be done without disassembling the motor. Refer to the template on the next page or follow the instructions below to create the motor frame hole.

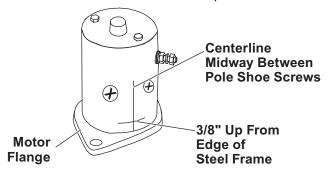
1. Locate the first and second pole shoe screws moving clockwise from the positive cable stud when viewing the motor from the top end.

Top End of Motor



49340 SOLENOID ISARMATIC® REWORK KIT - 1-1/2"

- Accurately locate the midpoint between the two pole shoe screws. (Failure to be at the midpoint could result in drilling into the field windings, ruining the motor.)
- 3. Measure up 3/8" from the bottom (mounting flange end) on the centerline between pole shoe screws. Mark this location with a center punch.

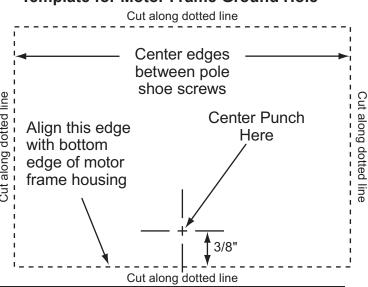


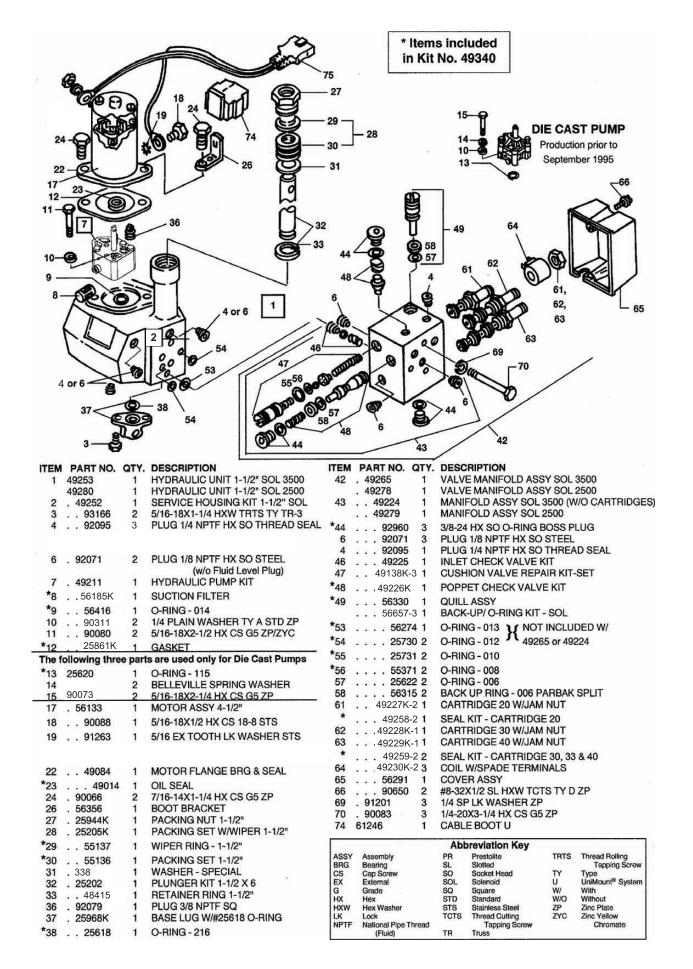
- 4. Use a file or grinder to create a minimum of 5/16" wide x 3/4" high flat spot centered on the center punch mark. Make sure that all paint is removed in the area covered by the ground cable terminal when it is attached.
- Flat Spot Minimum 5/16" Wide x 3/4" High Drill to 17/64" Diameter

 Tap with 5/16"-18
 Thread
- 5. Re-punch the center location from Steps 2 and 3.

- 6. Drill a 17/64" diameter hole at the center punch location. **Avoid pushing drill bit into the motor casing after break through.** The motor frame is 5/16" thick material.
- 7. Thread the hole using a 5/16" tap and cutting oil. Be careful not to break the tap. Applying grease to the flutes of the tap will help keep chips from entering the motor.
- 8. Install the motor. Attach the ground cable to this new hole as shown. Use a 5/16" x 1/2" stainless steel cap screw (PN 90088) and stainless steel external tooth washer (PN 91263). (Use of a plated or brass cap screw may result in a poor ground.)

Template for Motor Frame Ground Hole







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