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A DIVISION OF DOUGLAS DYNAMICS, L.L.C.

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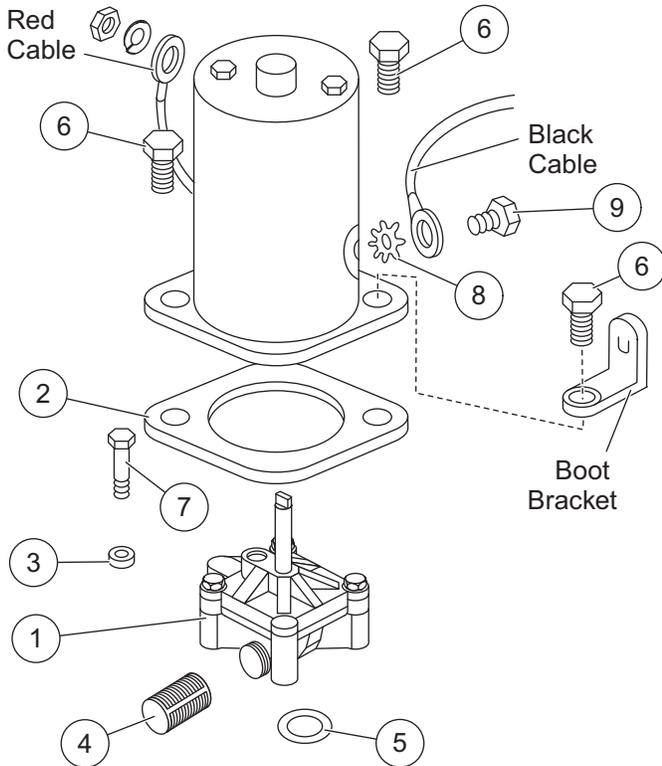
49211

HYDRAULIC PUMP KIT

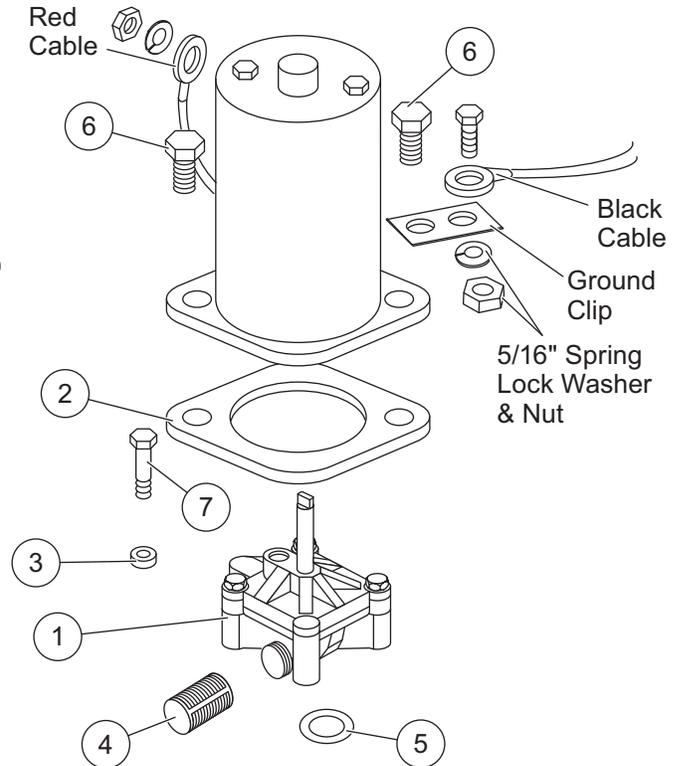
Parts List & Installation Instructions

PARTS LIST

**Motor Installation
(With Grounding Stud or Motor Frame Hole
for Ground Cable)**



**Motor Installation
(Without Grounding Stud or Motor Frame Hole
for Ground Cable)**



49211 Kit replaces MTE 56055 or Barnes 56059 hydraulic pumps.

49211 Hydraulic Pump Kit							
Item	Part	Qty	Description	Item	Part	Qty	Description
1	-	1	Hydraulic Pump	5	56416	1	O-Ring - 014
2	25861K	1	Motor Gasket Kit	6	90066	2	7/16-14 x 1-1/4 Hex Cap Screw G5
3	90311	2	1/4 Plain Washer Type A Standard	7	90080	2	5/16-18 x 2-1/2 Hex Cap Screw G5
4	56185	1	Suction Filter				
Parts Not Included in Kit - Sold Separately							
8	91263	1	5/16 Ex Tooth Lock Washer SS	9	90088	1	5/16-18 x 1/2 Hex Cap Screw SS
SS = Stainless Steel				G = Grade			

⚠ CAUTION
Read this document before installing the Hydraulic Pump Kit.

⚠ CAUTION
Use standard methods and practices when attaching snowplow and installing accessories including proper personal protective safety equipment.

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INSTALLATION INSTRUCTIONS

NOTE: Poor motor grounds may result in pump failures. When replacing pump, insure that all ground connections are clean and free of paint.

1. Park the vehicle on a smooth, level, hard surface, such as concrete. Lower the blade to the ground, and turn the control to the "OFF" position. Disconnect the snowplow from the vehicle, or turn the vehicle ignition to the "OFF" position and remove the key.
2. Fully compress the lift cylinder.
3. Remove the drain plug from the bottom of the hydraulic unit housing and drain the hydraulic fluid from the housing. Dispose of the used hydraulic fluid properly. Replace the drain plug.
4. Take note of the orientation of the motor assembly relative to the housing.
5. Remove the motor assembly from the housing.
6. Remove the hydraulic pump from the housing.
7. Clean the pump mounting surface and the motor assembly mounting surface.
8. Follow these steps to flush the used fluid from the hydraulic cylinders:
 - a. Remove the hoses from the valve block. Be sure to note the port location for each hose to ensure proper reattachment.
 - b. Place the open ends of the hoses in a container to collect the used fluid.
 - c. Manually move the blade to retract both cylinders, forcing out the used fluid. Dispose of the used fluid properly.
 - d. Reattach the hydraulic hoses.
9. Remove shipping plugs, snap the 56185 suction filter onto the pump inlet fitting and place the 56416 O-ring into the counterbore in the bottom of the pump body at the pump outlet.
10. Place the pump onto the cleaned pump mounting surface, with the suction filter oriented toward

the front nameplate, and secure the pump to the housing with two 5/16" x 1-1/2" cap screws and 1/4" flat washers. Alternately tighten cap screws to 15 ft-lb.

11. Place the gasket on the cleaned motor assembly mounting surface. Turn the tang of the pump shaft so it aligns with the slot in the motor shaft. Carefully place the motor assembly over the pump shaft so the oil seal inside the motor assembly is not damaged.

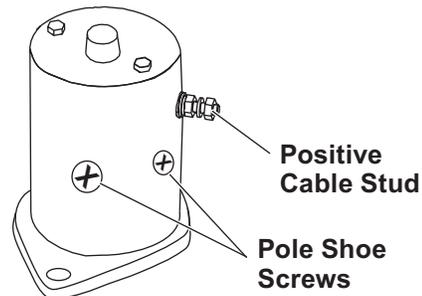
Motor Installation Without Grounding Stud or Motor Frame Hole for Ground Cable

Older motors without a grounding 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 following page or follow instructions below to create the motor frame hole.

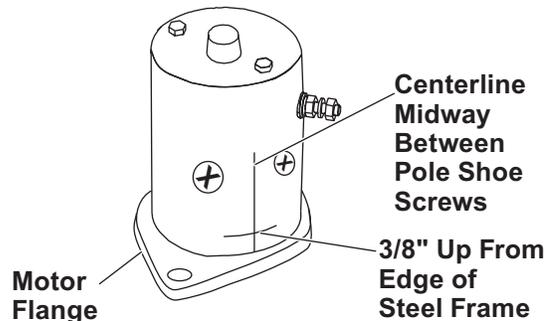
If your motor has a frame hole, skip to Step 20.

12. 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

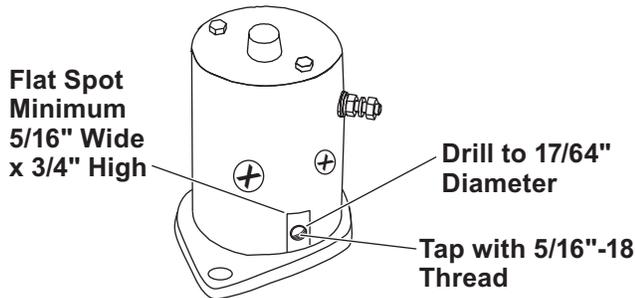


13. Accurately locate the midpoint between the two pole shoe screws. (Failure to be at the midpoint could result in drilling into the field windings, ruining the motor.)



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14. Measure up 3/8" from the bottom (mounting flange end) on the centerline between pole shoe screws. Center punch this location.



15. Use a file or grinder to create a minimum of 5/16" side 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.
16. Repunch the center location from Steps 13 and 14.
17. Drill a 17/64" diameter hole at the center punch location. **Avoid pushing drill bit into motor casing after break through.** Motor frame is 5/16" thick material.
18. Thread the hole using a 5/16"-18 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.
19. Install the motor. Attach the ground cable to this new hole as shown. Use the furnished 5/16" x 1/2" stainless steel cap screw and stainless steel external tooth washer. (Use of plated or brass cap screw may result in poor ground.)

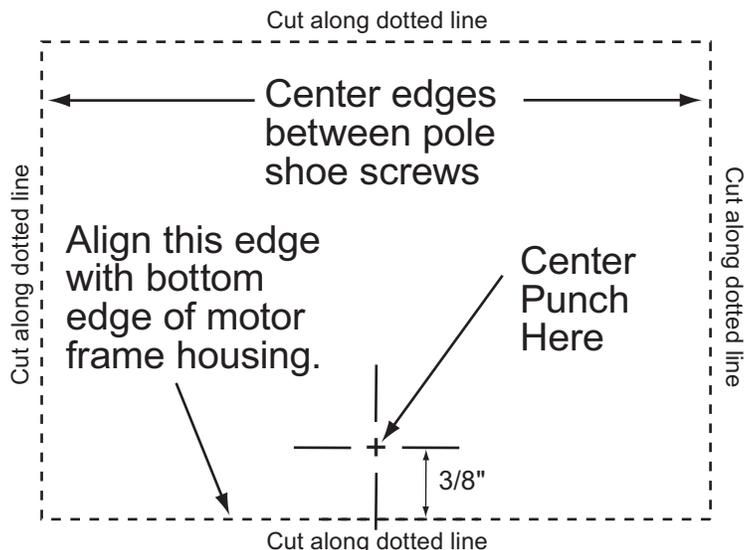
20. Position the motor assembly on the housing in the same orientation as it was at disassembly. Secure it to the housing with two 7/16" x 1-1/2" cap screws. Finger-tighten the 7/16" cap screws.
21. Connect positive and ground cables as shown in appropriate diagram.

⚠ CAUTION

Do not mix different types of hydraulic fluid. Some fluids are not compatible and may cause performance problems and product damage.

22. Fill the housing with WESTERN® High Performance Hydraulic Fluid (recommended for superior cold weather performance) through the fill port at the top, passenger-side corner of the housing. Do not mix different types of fluids.
23. Energize the motor momentarily to check for good pump-to-motor alignment.
24. Alternately tighten the two 7/16" cap screws to 15–20 ft-lb.
25. Cycle the unit and refill the reservoir.

Template for Motor Frame Ground Hole



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