

WESTERN PRODUCTS, P.O. BOX 245038, MILWAUKEE, WI 53224-9538

LIT. NO. 67791 - Troubleshooting Guide
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UltraMount® OWNER'S MANUAL

Troubleshooting Guide Only

WESTERN®
Snowplows



A DIVISION OF DOUGLAS DYNAMICS, L.L.C

CONDITION	POSSIBLE CAUSE	CORRECTION
Motor does not run.	<ol style="list-style-type: none"> 1. No power to the motor relay. 2. No ground to the motor relay. 3. Motor relay does not operate. 4. Poor connections on snowplow battery cables. 5. Motor is worn or damaged. 6. Pump is seized. 	<ol style="list-style-type: none"> 1. Repair or replace wiring, cab control or harness fuse. 2. Repair wiring or connections. 3. Replace motor relay. 4. Clean and verify cable connections. 5. Repair or replace motor. 6. Replace pump.
Motor will not shut off.	<ol style="list-style-type: none"> 1. Motor relay is shorted. 2. Vehicle wiring has a short. 3. Cab control is malfunctioning. 4. Open ground circuit. 	<ol style="list-style-type: none"> 1. Replace motor relay. 2. Repair the wiring. 3. Repair or replace cab control. 4. Repair ground.
Motor operates properly, but plow raises slowly, partially, not at all, and/or angles instead.	<ol style="list-style-type: none"> 1. There is excess weight on the A-frame and quadrant. 2. Hydraulic fluid type or level is incorrect. 3. Pump filter is clogged. 4. Pump relief pressure is low. 5. Pump and/or pump O-ring are damaged. 6. Motor rpm is low. 7. Vehicle battery is weak. 8. Cartridge valve coils are not activating properly. 9. Cartridge valves are contaminated or are sticking. 10. Cartridge valves are damaged. 	<ol style="list-style-type: none"> 1. Remove built-up snow and ice or after-market accessories (excess weight). 2. Fill with recommended fluid. 3. Clean or replace filter and flush and refill the system. 4. Adjust the pump relief screw. 5. Replace pump and/or pump O-ring. 6. Repair motor, electrical connections, or wiring. 7. Replace battery and check charging system. 8. Repair or replace coils, wiring, or cab control. 9. Clean or replace valve. Find the cause of contamination. Flush and refill system. 10. Replace cartridge valves.
Snowplow will not stay in RAISED position or lowers by itself.	<ol style="list-style-type: none"> 1. Cartridge valves are contaminated or are sticking. 2. Cartridge valves are damaged. 3. There are shorts or open connections in the wiring. 	<ol style="list-style-type: none"> 1. Clean or replace valves. Find the cause of contamination. Flush and refill system. 2. Replace cartridge valves. 3. Repair wiring.
Snowplow will not lower, lowers slowly, or will not float.	<ol style="list-style-type: none"> 1. Incorrect hydraulic fluid for the temperature. 2. Quill is adjusted in too far. 3. Cartridge valve coils are not activating properly. 4. Cartridge valves are contaminated and are sticking. 5. Cartridge valves are damaged. 	<ol style="list-style-type: none"> 1. Use recommended oil. 2. Turn quill out. 3. Repair or replace coils, wiring or cab control. 4. Clean or replace valves. Find the cause of contamination. Flush and refill system. 5. Replace cartridge valves.

CONDITION	POSSIBLE CAUSE	CORRECTION
<p>Motor operates properly, but blade will not angle or angles slowly.</p>	<ol style="list-style-type: none"> 1. Incorrect hydraulic fluid for the temperature. 2. There is binding between A-frame and quadrant. 3. Pump filter is clogged. 4. Pump relief pressure is low. 5. Pump and/or pump O-ring are damaged. 6. Motor rpm is low. 7. Cartridge valve coils are not activating properly. 8. Cartridge valves are contaminated and are sticking. 	<ol style="list-style-type: none"> 1. Use recommended oil. 2. Repair or replace damaged parts. 3. Clean or replace filter and flush and refill the system. 4. Adjust the pump relief screw. 5. Replace pump and/or pump O-ring. 6. Repair motor, electrical connections, or wiring. 7. Repair or replace coils, wiring, or cab control. 8. Clean or replace valves. Find the cause of contamination. Flush and refill system.
<p>Motor operates properly, but plow angles wrong way, one way only, or raises instead.</p>	<ol style="list-style-type: none"> 1. Angle cylinder hoses are reversed. 2. Cartridge valve coils are not activating properly. 3. Cartridge valves are contaminated and are sticking. 	<ol style="list-style-type: none"> 1. Correct hose installation. 2. Repair or replace coils, wiring, or cab control. 3. Clean or replace valves. Find the cause of contamination. Flush and refill system.
<p>Blade will not hold side-to-side position.</p>	<ol style="list-style-type: none"> 1. Spool poppet valve is worn, damaged, or contaminated. 2. Cushion valves are contaminated. 3. Cushion valves are damaged, missing parts, or out of adjustment. 	<ol style="list-style-type: none"> 1. Clean or replace worn or damaged parts. Find the cause of contamination. Flush and refill system. 2. Clean and adjust cushion valves. Find cause of contamination. Flush and refill system. 3. Replace damaged or missing parts, or adjust cushion valves.
<p>Oil leaks from hydraulic power unit.</p>	<ol style="list-style-type: none"> 1. There is external damage to reservoir. 2. There are loose O-ring plugs or fittings. 3. Pump shaft seal is damaged. 	<ol style="list-style-type: none"> 1. Repair or replace reservoir. 2. Tighten O-ring plugs or fittings. 3. Replace pump shaft seal.