

MULTIPLEX STRAIGHT BLADE HYDRAULIC UNIT SERVICE INSTRUCTIONS

RELIEF VALVE ADJUSTMENTS

NOTE: Before removing hoses and fittings, carefully note hose routing for proper reassembly. For complete hydraulic fluid level/change or hose/fitting instructions, see the Maintenance section of your Owner's Manual.

NOTE: Loosen fill plug slowly to relieve any pressure in reservoir.

42346-1 & 42347-1 SERVICE MANIFOLD ASSEMBLIES

Angle ram relief valves A and B are factory set at 3000 psi for use on WESTERN® PRO PLUS® HD snowplows. For use on other WESTERN straight blade snowplows, the angle ram relief valves must be set to 4000 psi. Refer to the table below.

Relief Valve A and B Adjustment

Snowplow Model	No. of Turns Off (CCW) from Fully Seated	Approx. Setting (psi)
WESTERN PRO PLUS HD snowplows	1-3/4	3000 (factory setting)
WESTERN MIDWEIGHT™, PRO-PLOW® Series 2, or PRO PLUS snowplows	1 to 1-1/4	4000

Return Tube Installation

For all service manifold assemblies, install the return tube as shown on page 2. Press or tap in until the shoulder of the tube is flush with the manifold.

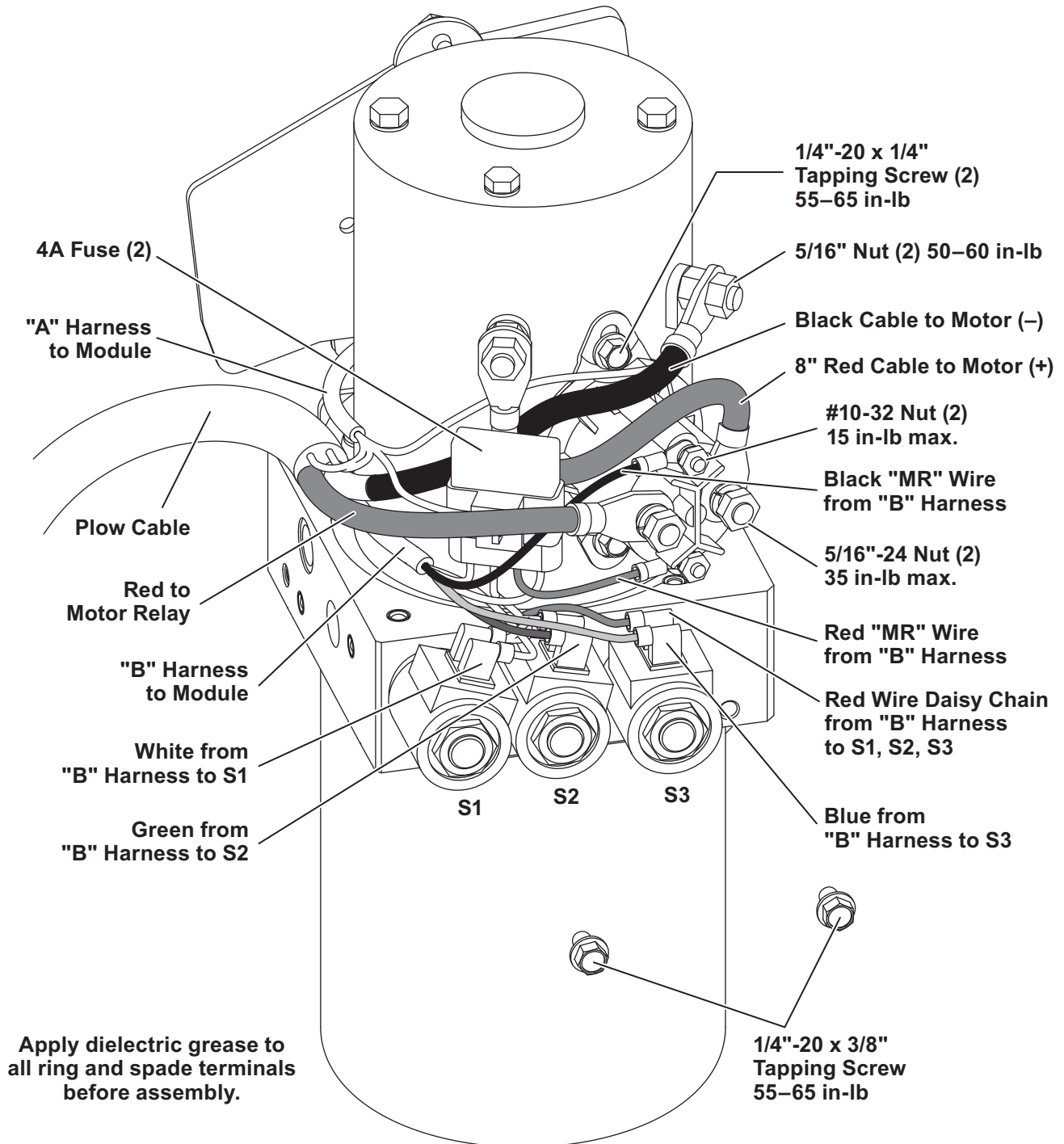
TORQUE CHART

Multiplex Straight Blade Hydraulic Unit Torque Chart		
Location	Fastener Size	Torque
Pump Cap Screws	5/16-18 x 2-1/4	150–160 in-lb
Motor Terminals (+ and –)	5/16 Nut	50–60 in-lb
Motor to Manifold Cap Screws	1/4-20	55–65 in-lb*
Reservoir Screws	#10-24 x 5/16	30–35 in-lb*
Solenoid Valves	7/8 Hex Head	19–21 ft-lb
Coil Nuts	3/4 Hex Head Jam Nut	48–60 in-lb
SAE O-Ring Plugs	1/8 or 5/32 Internal Hex	7–9 ft-lb
Hydraulic Unit Mount Bolts	3/8-16 x 1	22–27 ft-lb
Motor Relay Small Terminals	10-32 Nut	15 in-lb max
Motor Relay Large Terminals	5/16-24 Nut	35 in-lb max
Motor Relay Mount Screws	1/4-20 x 1/4	55–65 in-lb
Plow Module Mount Screws	1/4-20 x 3/8	60–70 in-lb
Module Plate to Manifold	1/4-20 x 5/8	60–70 in-lb

* Torque with low-strength threadlocker.

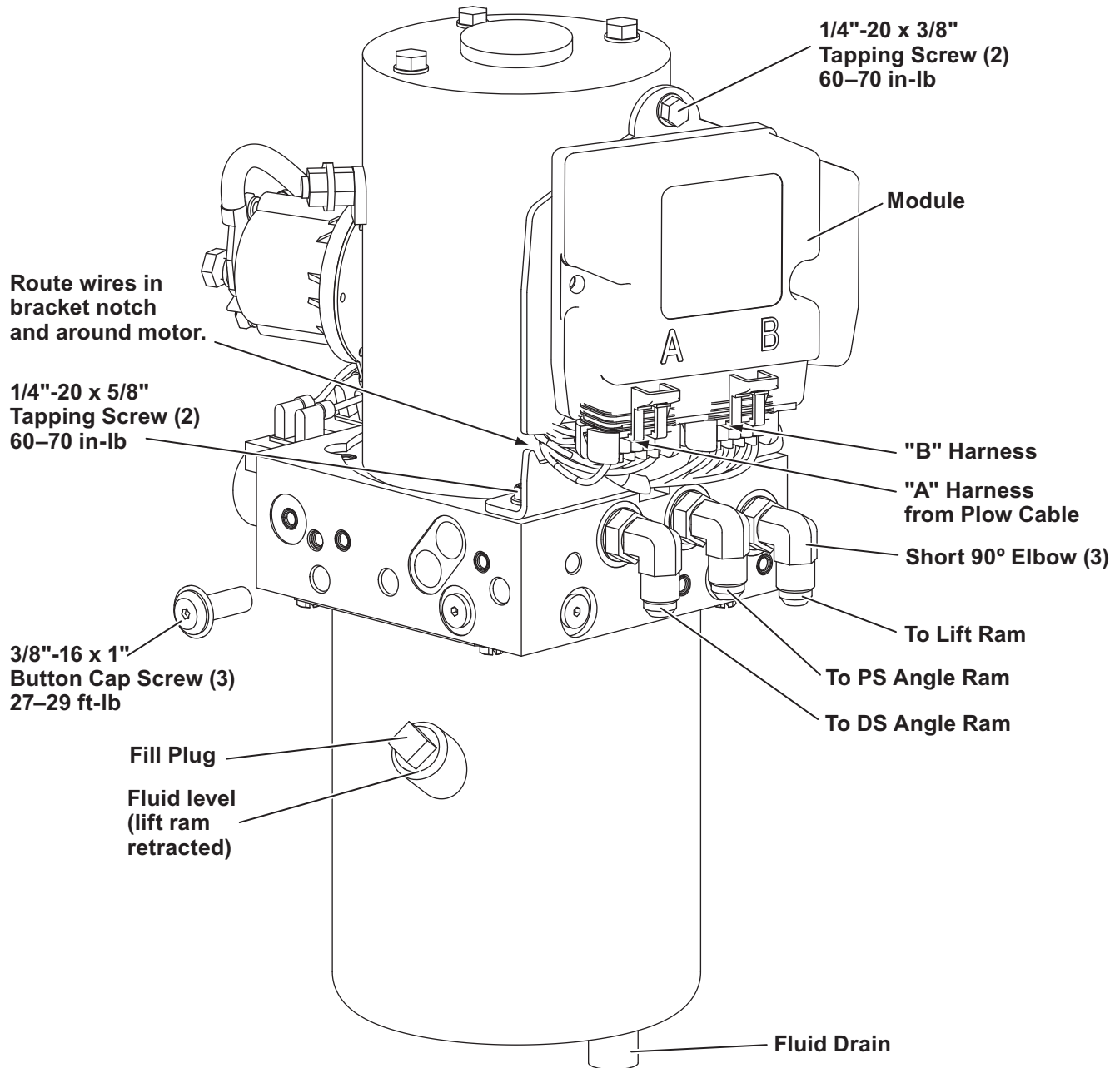
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ELECTRICAL ASSEMBLY



MULTIPLEX STRAIGHT BLADE HYDRAULIC UNIT SERVICE INSTRUCTIONS

ELECTRICAL ASSEMBLY, HYDRAULIC FLUID (DRAIN AND FILL), FITTINGS



The company reserves the right under its product improvement policy to change construction or design details and furnish equipment when so altered without reference to illustrations or specifications used. This equipment manufacturer or the vehicle manufacturer may require or recommend optional equipment for snow removal. Do not exceed vehicle ratings with a snowplow. The company offers a limited warranty for all snowplows and accessories. See separately printed page for this important information.

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