

STRAIGHT BLADE W/SCRAPE LOCK HYDRAULIC UNIT SERVICE INSTRUCTIONS

Relief Valve Service: Apply one drop of low-strength threadlocker to all relief valve stems. The spring for relief valve D is different from the other springs and should not be interchanged.

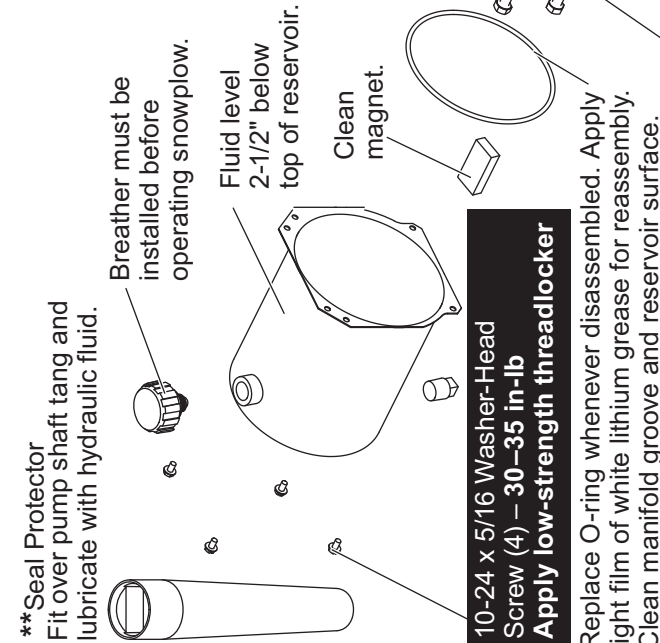
Relief Valve A and B Adjustment: Screw stem in until spring is fully compressed, then back out 1 to 1-1/4 turns for approximately 4000 psi angle ram relief.

⚠ WARNING

Do not stand between the vehicle and the blade or within 8 feet of a moving blade. A moving or falling blade could cause personal injury.

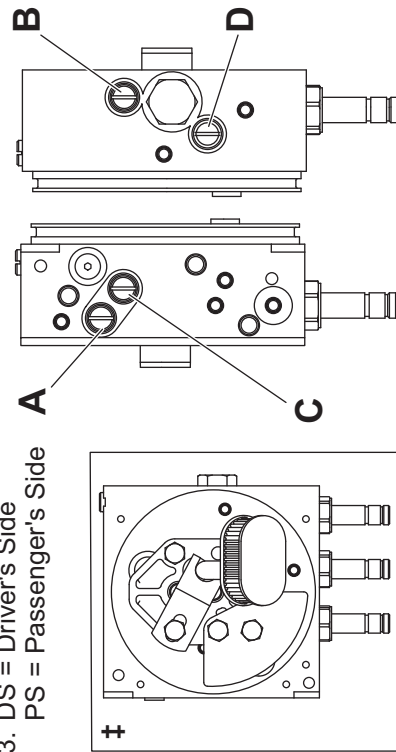
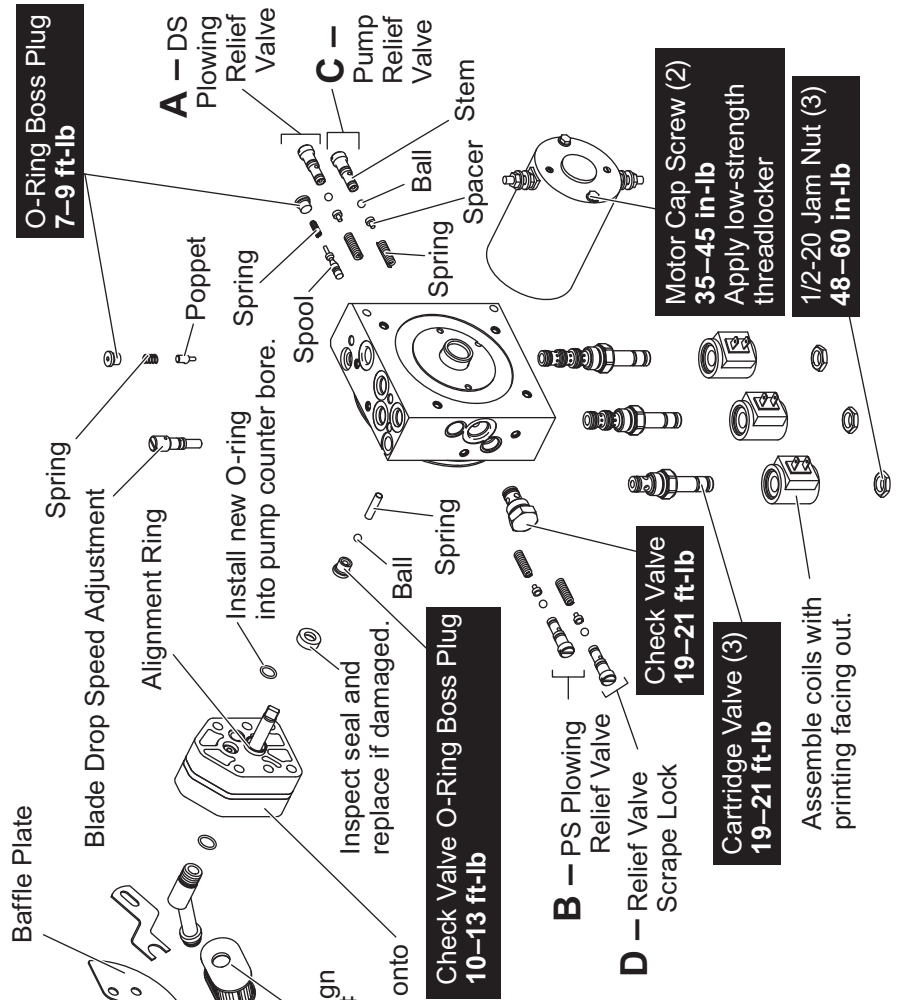
Relief Valve C Adjustment: Attach 3000 psi gauge in line with PS ram. Adjust relief valve C to obtain 1650 psi pump relief pressure at full angle left. Relieve pressure before adjusting.

Relief Valve D Adjustment: Attach 3000 psi gauge in line with base end of lift ram. Adjust relief valve D to obtain 350 psi while blade is being raised. Relieve pressure before adjusting.



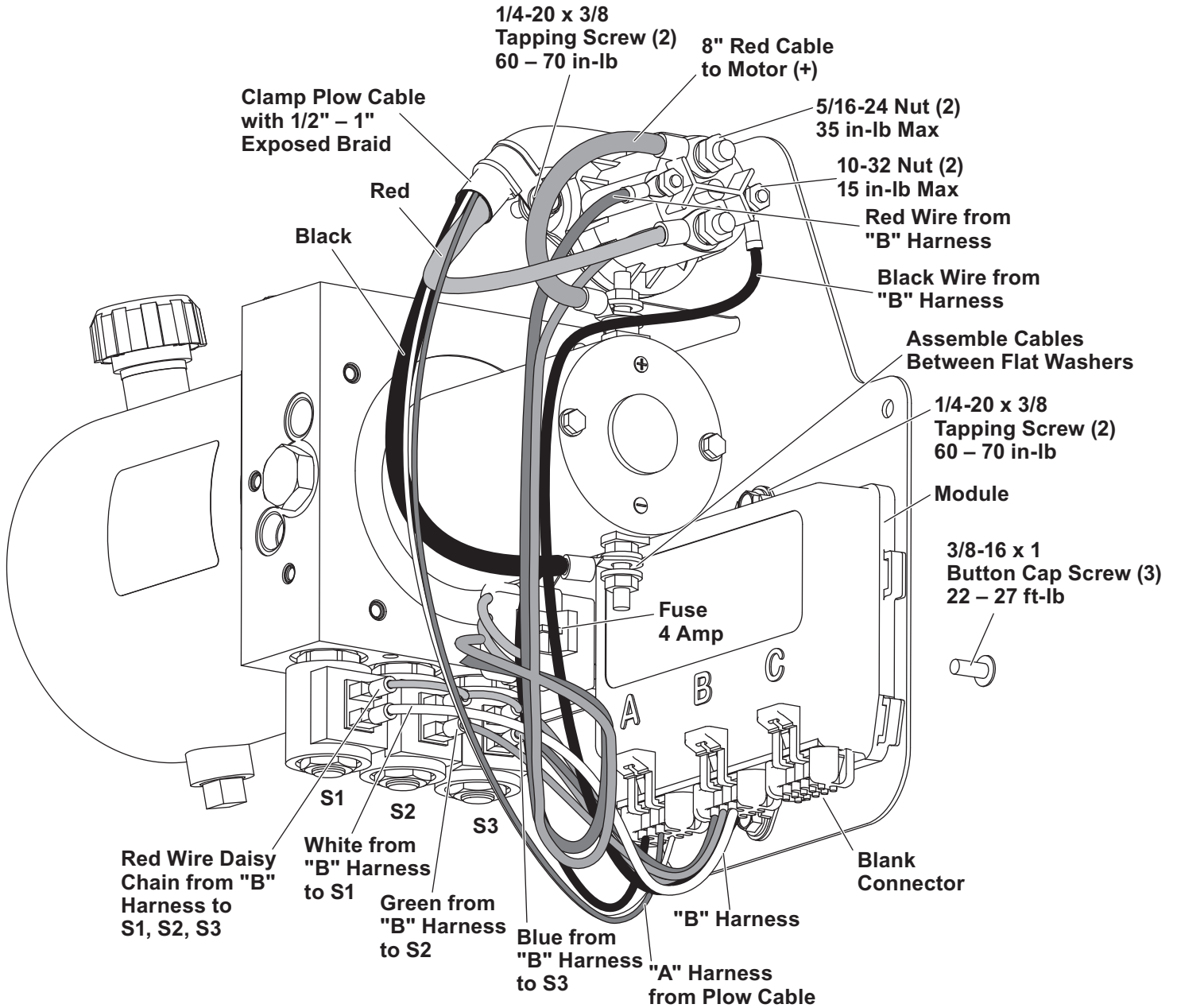
General

- 1. Before any service, loosen breather to relieve reservoir pressure.**
- 2. Lubricate all O-rings with clean hydraulic fluid except where noted otherwise.**
- 3. DS = Driver's Side
PS = Passenger's Side**



STRAIGHT BLADE w/SCRAPE LOCK HYDRAULIC UNIT SERVICE INSTRUCTIONS

ELECTRICAL ASSEMBLY



STRAIGHT BLADE w/SCRAPE LOCK HYDRAULIC UNIT SERVICE INSTRUCTIONS

TORQUE CHART

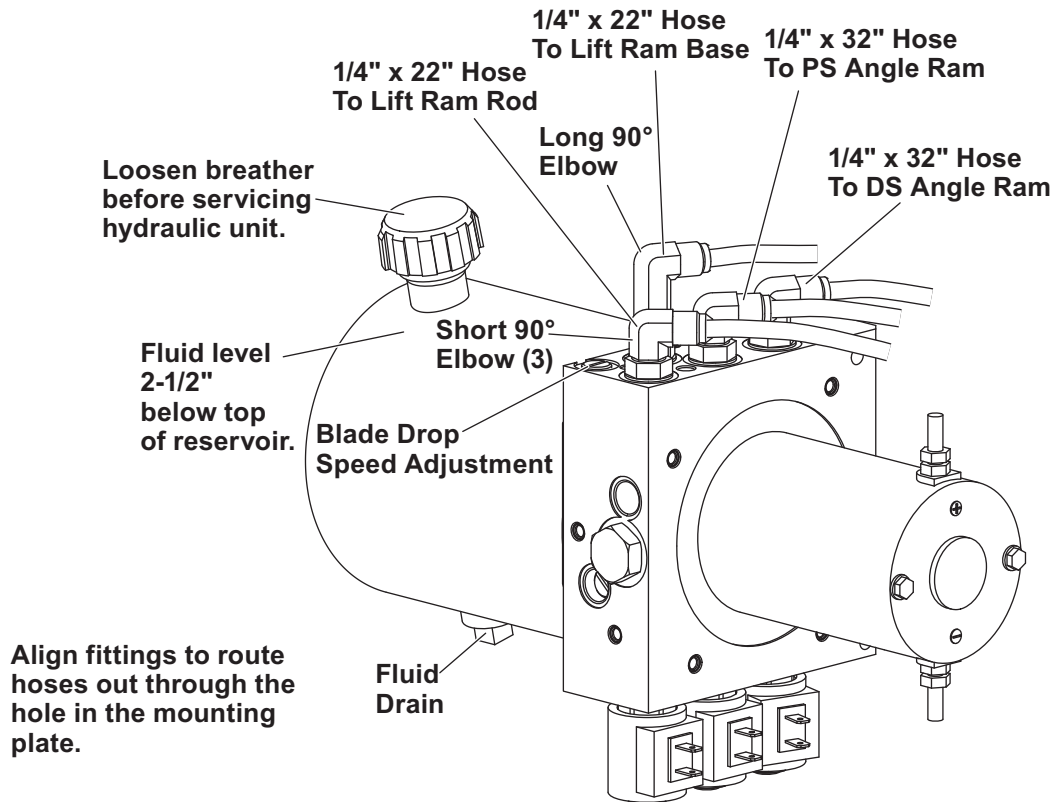
Straight Blade w/Scrape Lock Hydraulic Unit Torque Chart		
Location	Fastener Size	Torque
Pump Cap Screws	5/16-18 x 2-1/4	150–160 in-lb
Motor Terminals (+ and –)	M6 Nut	25–35 in-lb
Motor to Manifold Cap Screws	M5 x .8	35–45 in-lb*
Reservoir Screws	#10-24 x 5/16	30–35 in-lb*
Solenoid Valves	7/8 Hex Head	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	55–65 in-lb
Hydraulic Unit Mount Bolts	3/8-16 x 1	22–25 ft-lb
Check Valves	7/8 Hex Head	19–21 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 3/8	60–70 in-lb
Plow Module Mount Screws	1/4-20 x 3/8	60–70 in-lb

* Torque with low-strength threadlocker

HALF-TON SNOWPLOWS & PERSONAL PLOWS W/ ROUND BASE END LIFT CYLINDER

Hydraulic Fluid (Drain and Fill), Fittings and Hoses

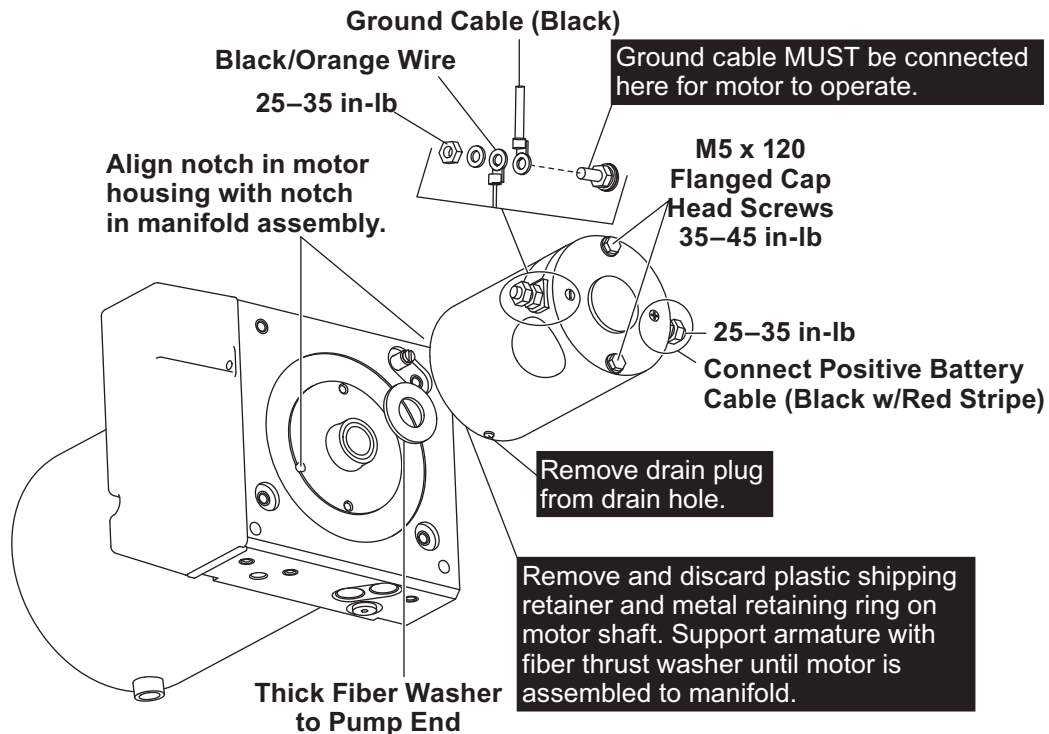
NOTE: Before removing hoses and fittings, carefully note hose routing for proper reassembly. For complete hydraulic fluid level/change or hose/fitting instructions, see the Maintenance Section of your Owner's Manual.



STRAIGHT BLADE w/SCRAPE LOCK HYDRAULIC UNIT SERVICE INSTRUCTIONS

PERSONAL PLOWS W/SQUARE BASE END LIFT CYLINDER

1. Do not allow armature to slip out of motor frame. Washer placement is critical.
2. Fasten motor to manifold and tighten to 35–45 in-lb.
3. Connect all cables as shown in illustration below and secure to 25–35 in-lb.
4. Ensure that the hydraulic reservoir is filled before actuating motor.
5. Reattach coil wires per diagram on inside of coil cover. Reinstall coil cover.



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