

Snow Plow Maintenance

Inspect on regular basis

After every 18 hours of plowing perform the following inspection:

- 1) Inspect all fasteners, mounting bolts, hydraulic and electrical connections for tightness (see recommended bolt torque).
- 2) Inspect the plow assembly (the blade, A-frame, lift frame, spreader bar and mounting kit) for any damage. (Replace part as necessary)

Post season maintenance

- 1) Clean and paint the blade assembly as needed.
- 2) Disconnect all electrical plugs and coat each connection with dielectric grease. Install all dummy plugs provided.
- 3) Collapse lift cylinder. Cover exposed rod of the lift cylinder and angle cylinders with water resistant grease.
- 4) Drain and flush hydraulic system and refill with UNIVIS HVI 13 hydraulic fluid.

For M673F drain plug is located on the underside of the centre block; use a 1/4" Allen Key to remove plug.

Reservoir on M3593 and M3500 can be drained through the hole on the bottom of pump plate, without removing power unit from pump plate.

Refill power unit so that oil level is $\frac{3}{4}$ " from the top of the reservoir. Clean up any spilled oil and check all functions several times making sure there is not excessive foaming in the reservoir. Compress the lift cylinder and double check the oil level. Check for leaks at all fittings and reinstall filler plug.

Preseason check

Before the snow season check your equipment to make sure it is in working condition.

- 1) Check power unit and hydraulic system (check hydraulic hoses for cracks and leaks, check for any leaks from the system (fittings)).

- 2) Check power unit, control switch, lights for proper operation.
- 3) Check all fasteners, pins, retainers, nuts and bolts for tightness.
- 4) Check all electrical connections, control harness and power/ground cable connectors for corrosion.
- 5) Coat all electrical connections with dielectric grease (apply dielectric grease to all electrical connections at least once per month during the plow season).
- 6) Inspect and test your battery.
- 7) Check the ballast. The loaded vehicle **MUST NOT** exceed vehicle gross vehicle weight ratings (GAWR), front gross axle weight rating (FGAWR) or rear gross axle weight rating (RGAWR).
- 8) Apply grease to the centre pin (if applicable).

Warning

-Inspect the snowplow components and bolts for wear or damage before mounting or removing the snowplow and before traveling.

- Be sure that the plow is properly attached before moving the vehicle.
- Make sure you know all obstructions (bumper stops, curbs, fire hydrants etc.) before it snows, because it will be very hard to see these obstructions after it snows. If necessary mark them with flags to avoid possible damage to your plow or vehicle.
- Do not let snow accumulate, always plow with the storm.
- Always wear seatbelts when plowing snow.
- Always lower the blade when the vehicle is not in use.
- Top of battery needs to be protected. If positive side of battery is accidentally grounded person could be burnt or wiring system can be damaged, or battery gasses could explode causing injuries.
- Disconnect cable from negative battery terminal before replacing the motor or solenoid.
- Always wear eye protection and protective clothing when working around hydraulic systems.
- Remove jewelry and objects that might conduct electricity while working on power units.
- Fluid under pressure can pierce the skin and enter the bloodstream causing death or serious injury.
- When adjusting the relief valve be sure to use a pressure gauge. Failure to accurately set the relief valve can cause failure resulting in damage to the equipment or cause bodily harm.

TORQUE CHART (FT. LB.)		
SIZE	GRADE 5 BOLT 	GRADE 8 BOLT 
$\frac{1}{4}$ - 28	8	11
$\frac{5}{16}$ - 24	15	22
$\frac{3}{8}$ - 24	28	40
$\frac{7}{16}$ - 20	44	63
$\frac{1}{2}$ - 20	69	97
$\frac{5}{8}$ - 18	138	195
$\frac{3}{4}$ - 16	241	341
Note: Torque values are for plated bolts only		