

Snow Plow Maintenance

If your plow is under the warranty (as per Arctic Warranty Policy) & to be eligible for warranty, the plow, inclusive of all components, must be returned to an authorized Arctic dealer every spring for preventative maintenance. Warranty work must be performed by an authorized Arctic dealer. Failure to do so will nullify any future warranty claims.

Warning

Inspect the snowplow components and bolts for wear or damage before mounting or removing the snowplow and before travelling and be sure that the plow is properly attached before moving the vehicle.

-Servicing the snowplow (hydraulic power system, hoses, hydraulic cylinders, controllers, wiring harnesses, lights, blade frame, blade moldboard, A-frame, quadrant, lift frame and vehicle undercarriage) without special tools and knowledge could result in personal injury. See an authorized Arctic dealer for service.

- 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 a vehicle is in motion.

- Always lower the blade when the vehicle is not in use.

-Always wear eye protection and protective clothing when working around hydraulic systems.

-Remove jewellery 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.

Inspect on a regular basis

After every 18 hours of plowing perform the following inspection:

-Inspect all fasteners, mounting bolts, hydraulic and electrical connections for tightness.

-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

-Inspect the plow assembly (the blade, A-frame, lift frame, spreader bar and mounting kit, all fasteners, pins, retainers, nuts and bolts for tightness) for any damage (cracks, abnormal wear, etc.) and repair or replace part as necessary. Tighten all undercarriage bolts. Apply grease to the centre pin (if applicable).

-Check all electrical connections, control harness and power/ground cable connectors for corrosion and repair or replace part as necessary. Disconnect all electrical plugs and coat each connection with dielectric grease. Install all dummy plugs provided.

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

-Drain and flush hydraulic system and refill with UNIVIS HVI 13 hydraulic fluid. Fill up power unit with new oil. Lift cylinder rod must be all the way down (put control box switch in float position and push cylinder rod down by hands - cylinder must be all the way down). Jog up and down switch for lift cylinder. Also jog left and right for angling cylinders.

-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.

-Collapse lift cylinder. Cover exposed rod of the lift cylinder and angle cylinders with water resistant grease.

-Clean and paint the blade assembly as needed.

Preseason check

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

-Check power unit, control switch, lights for proper operation.

-Check all fasteners, pins, retainers, nuts and bolts for tightness. Apply grease to the centre pin (if applicable).

-Check all electrical connections, control harness and power/ground cable connectors for corrosion. Coat all electrical connections with dielectric grease (apply dielectric grease to all electrical connections at least once per month during the plow season).

-Inspect and test your battery.

-Check the ballast. The loaded vehicle MUST NOT exceed vehicle gross vehicle axle weight ratings (GAWR), front gross axle weight rating (FGAWR) or rear gross axle weight rating (RGAWR).