



### TRUCK MASTER®

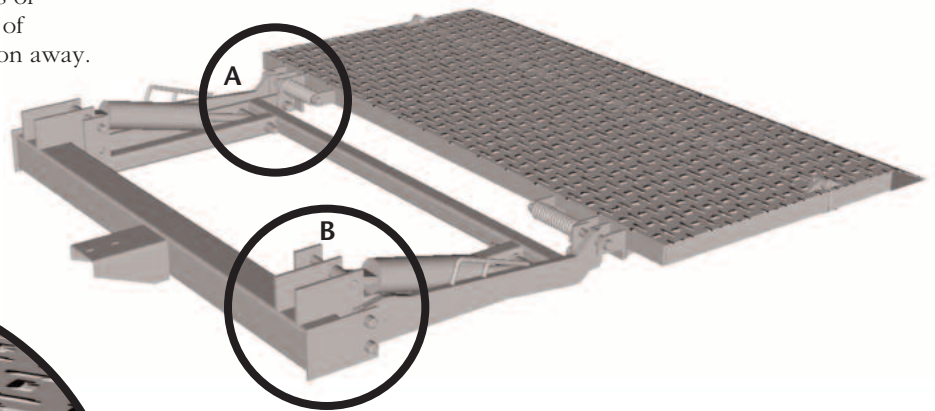
#### Winterize Your Liftgate

It is a good practice to bring your TruckMaster liftgate in for your Pre-Winter inspection and Service. This will reduce costly down time and high repair costs. This service should be completed before winter sets in and salt and road dirt attacks your valuable liftgate.

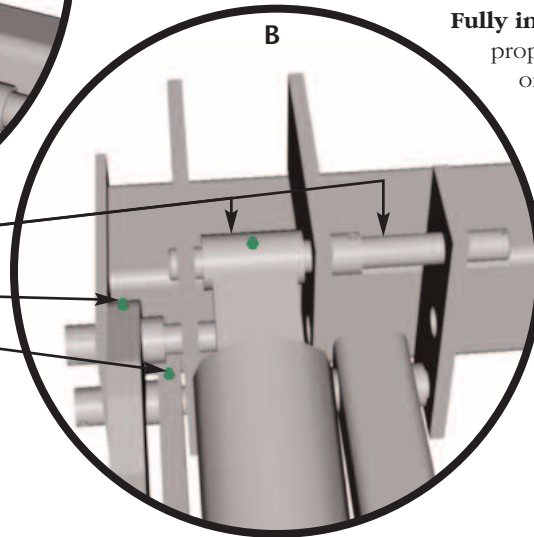
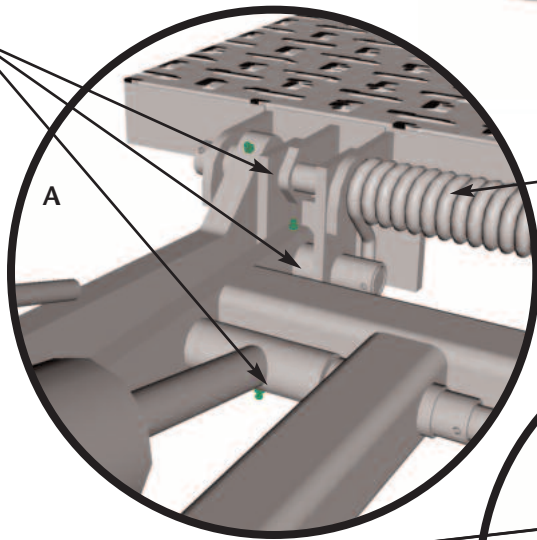
Here are some suggestions that will help reduce repair costs and down time when you need your liftgate.

#### MECHANICAL

● **Inspect and lubricate** all pins and pivot points. Use EP2 Chassis grease. If there are signs of wear, replace the pins. If there are signs of corrosion, pull the pin and clean corrosion away. Lubricate the pin with anti-seize material and reinstall and grease the pivot point. When greasing pivot points, ensure to operate the pivot with full motion. Grease again to ensure the proper amount of grease is applied.



● **Inspect and lubricate the torsion spring** with an anti-corrosive material (i.e. Krown Brand). If the spring is covered in rust, clean and paint. Ensure that the center of the spring is also free of rust. Always ensure the rust inhibitor used is not thick enough to collect dirt and salt.



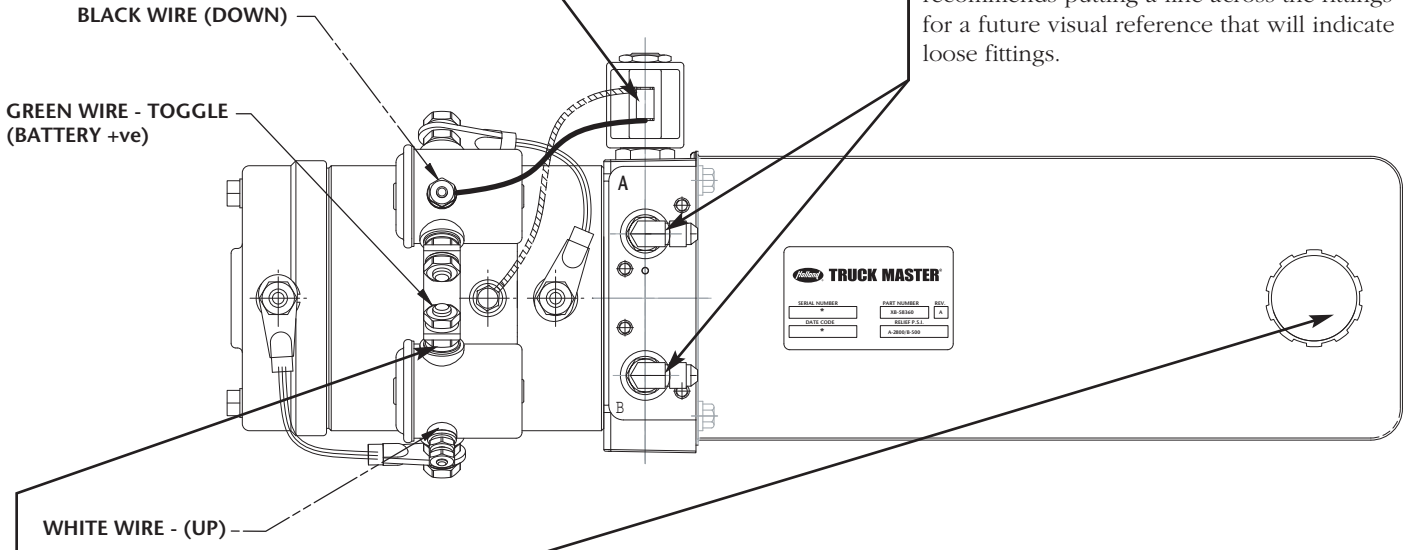
**Fully inspect** the liftgate to ensure proper operation. If any obstruction or rubbing occurs, diagnose the issue and rectify.

Remove the platform plugs in the cross members of the platform and spray a driplless oil undercoating.

# HYDRAULIC AND ELECTRICAL

● **Inspect and remove the coil from the valve** and look for signs of corrosion. If corrosion is present, clean and repair as necessary.

● **Inspect to ensure all hydraulic hoses are tight and not leaking.** If hoses are showing signs of wear, replace as necessary. After torquing the hydraulic hoses, Holland recommends putting a line across the fittings for a future visual reference that will indicate loose fittings.



● **Inspect the filler cap** for signs of damage. The foam baffle on the inside of the cap should be flat and in place. Inspect all wire connection on toggles, push buttons or any other controls attached to the liftgate. Clean and apply dielectric grease to all electrical components to help reduce corrosion.

● **Inspect all wiring and wiring connections** to ensure they are tight and free of corrosion. If the pump has foreign debris, clean the entire pump and wire connections. Once you are satisfied that all components are clean, apply dielectric grease to all connections. If any wires show signs of deterioration, replace as required.

**Note:** To reduce down time, bring in your liftgate every 2-3 months for quick and simple inspections. Daily inspections while doing the circle check on your vehicle will spot any concerns before they become serious failures.

**Holland recommends** that you flush and replace the hydraulic oil every year to ensure contaminants are flushed from the system. Remove the pump tank and wipe clean with lint free cloth. Remove the strainer and flush. Replace the strainer. Remove the magnet and remove any contaminants.

**Recommended oils:**

Temperature Range	Recommended Fluids Manufacturer Type
Above 0° C (32° F)	Any .....AW-32, ISO-32, ATF
-25° to 65° C (-15° to 150° F)	Any .....DEXRON III, ESSO, EXXON .....HYDRAUL 50 MOBIL .....DTE 11 SHELL.....DONAX TD Low Viscosity
-35° to 50° (-30° to 120° F)	EXXON/ESSO.....UNIVIS N15 SHELL.....TELLUS T15 PETRO-CAN .....MV ARCTIC-15
-45° to 40° (-50° to 100° F)	Any .....MIL-H-5606 ESSO .....UNIVIS J-13 EXXON .....UNIVIS HVI 13 SHELL.....AEROSHELL FLUID #4



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