



Service Supplemental 01/19/17

## MAINTENANCE

Daily, weekly, and monthly inspection and maintenance. This is especially important for cables and pulleys. Lift cables and tilt cables are stranded and galvanized to protect the surface. This does not guarantee that the cable will not rust or corrode. **They must be coated with proper protectant at all times.**

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### MAINTENANCE CHECKLIST

[ 1 Check tower for any signs of rust or corrosion. Clean any corroded areas thoroughly with a steel brush and cloth. Spray area with a rust-inhibitor or cold galv. This includes all pulleys and bolts.

**Rust inhibitor must be of a dry penetrant type, not water based, to properly coat the metal,** penetrate into the metal and leave the surface as dry as possible to prevent any build up of dirt on the cables.

[ 2 Inspection of guy wires, if used, should be quite frequent if there is any reason to suspect possible sabotage of the guy wires by cutting or filing.

[ 3 All cables should be inspected every other month (sooner if tower usage is high). If any frayed or worn areas are detected the cable should be replaced.

[ 4 Lifting cables and pulleys are constantly exposed to weather and subject to corrosion. Under normal conditions with frequent inspection, proper maintenance, and lubrication, hoisting cables should last a long time. For safety's sake, however, it is recommended that hoisting cables be replaced as a matter of routine every three years or sooner if an inspection should show premature wear or corrosion depending on use.

[ 5 Each winch gearbox is filled to the proper level with lubricant at the factory. During operation, some oil might expand through the check valve at the top of the box due to heat expansion. this is normal and should not be

regarded as a leak in the gearbox. Check level and, if GL-5 required, add gear lubricant SAE 80-90W, API

Service of your tower is strongly recommended. More often if the tower has been placed under high stress levels (wind gusts, earthquakes, icing, loads, etc), environmental conditions (salt-spray, rain, chemical fumes, excessive temperature and humidity of tropical climates, etc.), and wear from frequent raising and lowering of crank-up extendable towers.

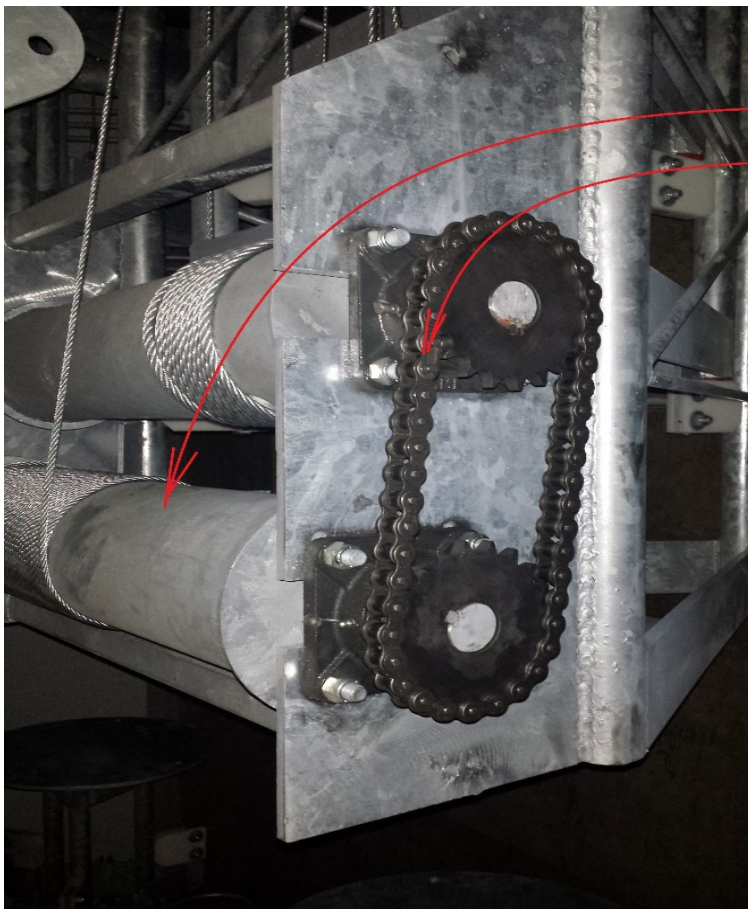
[ 6 If any lifting or lowering cables are slack or loose, they should be tightened until taut again. (TIGHTEN CABLES WHILE TOWER IS FULLY NESTED VERTICALLY) See supplemental on tightening lift cables at the drum.

Note: Although your tower trailer is designed to be used outside in all weather conditions, it is highly recommended that the motors, gear boxes, and electrical components be covered at all times when not in use. Keeping the elements off of your tower trailer will ensure a long life of trouble free service.

Electric motors are often equipped with removeable drain plugs to release and accumulation of condensation. The lift motor screws are removed at the plant. See motor supplemental.

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**AFTER REMOVING COVER ON SPROCKETS, ONE PERSON SHOULD PUT DOWNWARD PRESSURE ON LOWER DRUM AS A SECOND PERSON REMOVES THE QUICK LINK ON THE CHAIN. THEN RELEASE CHAIN FROM LOWER SPROCKET AND CONTINUE MORE PRESSURE ON LOWER DRUM, TAKING UP AS MUCH SLACK AS POSSIBLE. THE RIGHT AMOUNT OF PRESSURE IS ACHEIVED WHEN THE SPRING AT THE END OF THE PULL DOWN CABLE UP IN THE TOWER CENTER IS PARTIALLY COLLAPSED AN INCH OR SO. WHILE HOLDING THIS PRESSURE, REPLACE THE CHAIN ON THE LOWER SPROCKET AND THEN REPLACE THE QUICK LINK ON THE CHAIN. REPLACE SAFETY COVERS ON THE SPROCKETS AND DRUMS AND MISSION IS COMPLETE. GOOD JOB!**



**TECHNICAL BULLETIN #110714  
LEESON MOTOR #C6C17WC5G**

**REMOVE THESE TWO SCREWS**

**BOTTOM 2 SCREWS ON  
THE LIFT MOTOR MUST BE  
REMOVED FOR THE  
MOTOR TO PROPERLY  
DRAIN CONDENSATION**



**NOTE: THIS BULLETIN APPLYS TO ALL LANDA MOBILE SYSTEMS PORTABLE TOWERS USING A LEESON BRAND ELECTRIC MOTOR IN THE LIFT WINCH ONLY. NO OTHER MOTORS, TILT NOR HYDRAULIC PUMP, ARE EFFECTED BY THIS PROCEDURE. IT'S PRECAUTIONARY ONLY TO DRAIN ANY ACCUMULATING MOISTURE IN THE MOTOR**



**Contract Holder**

CONTRACT # GS-07F-106DA