

Leisure Boat Lift

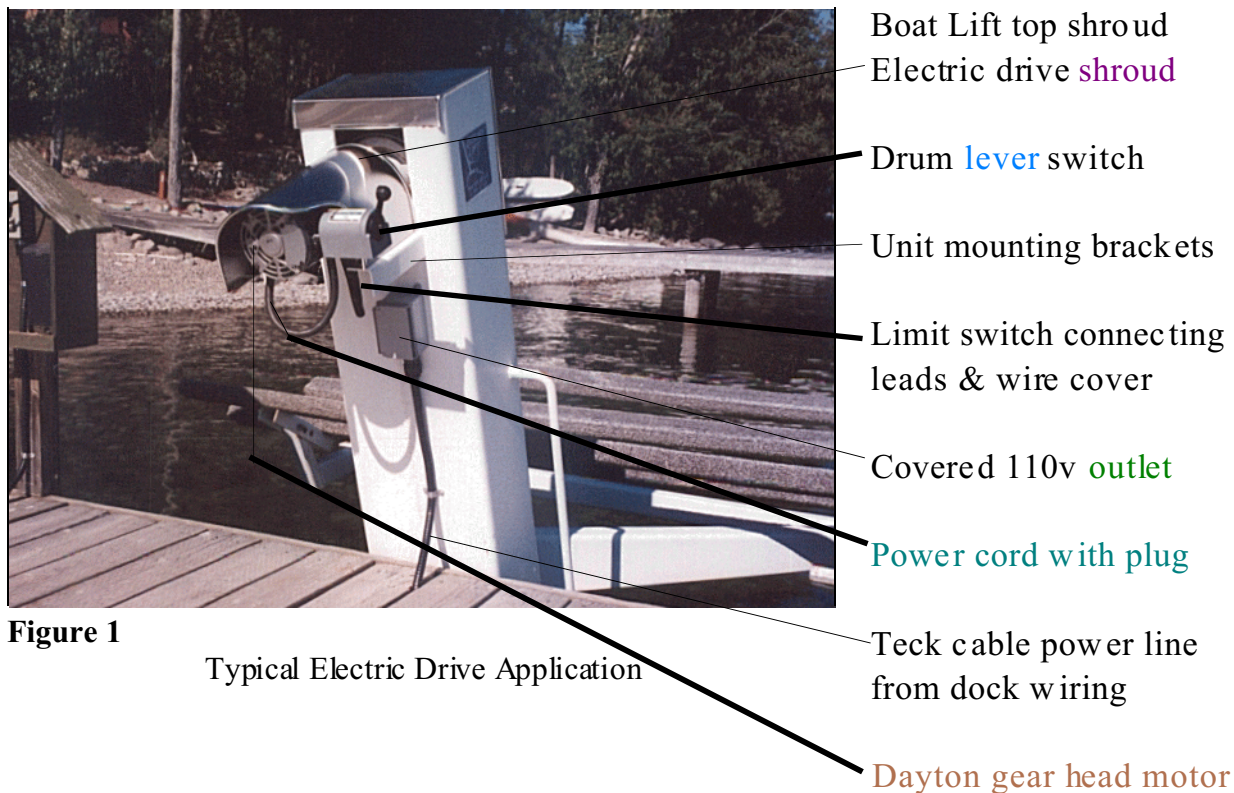
Electric Drive Option

These notes and photos are **important!**

This is an electric motor with a transmission and makes **25 foot pounds** torque

The motor is **110 volts AC** and uses **4.7 full load AMP**

The transmission unit is a **Dayton gear head 40 rpm** system.



Plug the unit **power cord** into the **covered outlet**.

Move the **lever** toward the water to lower the boat.

Move the **lever** to stop just before the boat starts to float.

Move the **lever** back to the dock to raise the boat.

Unplug the unit **power cord** and tuck back inside **shroud**.

There are **no** lubrication or maintenance points.

Use a plastic utility bag to cover in off season.

This drive unit uses **\$00.32 per hour** to operate.

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Important Notes

Always move the **lever** to its full position...**Don't** engage ½ way.

There are 3 positions.

There is **nothing to service** inside the cover or motor.

(This screw retains the override switch.)

(There is a small hole in the side of the cover, that accesses the push button switch.)

(These are **limit** switch leads.)



While operating the lift, you **must completely stop** the drive unit before it can **change direction**. Use the stop position for **up to 5 seconds** until there is no sound and motor stops.

If you switch the lever too quickly, the motor safely remains turning the original direction. This prevents **damage** to the **gear head transmission**. Full weight on the lift, cannot change direction instantly or safely.

Explaining Limit Switches and Override

If not protected, this unit would self destruct, while lifting too high or going too low.

Limiting the lift to 6'1", **stops power** from going to the **lever**, from either direction.

To bring the power back on in the appropriate direction, you **override** the contacted **limits** inside the tower.

OVERRIDE switch is NOT a RESET.
Do not press hard!!!!!!

Limit switch leads to tower stop the power when the lift is too high or too low.



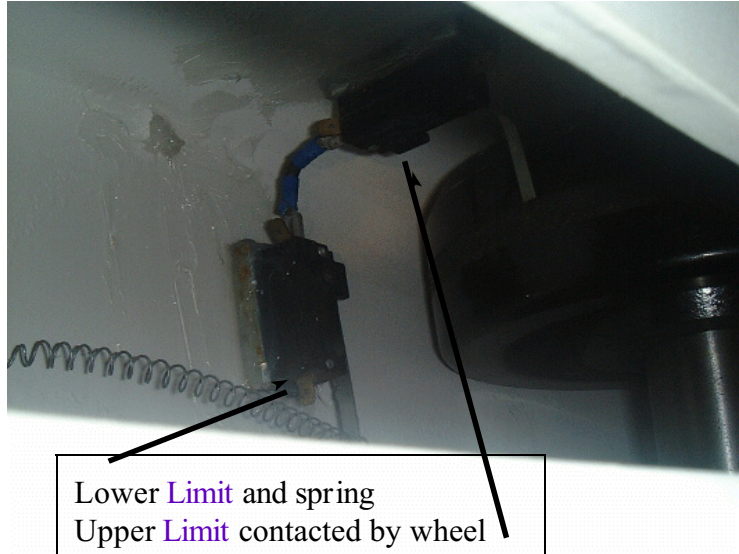
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Showing Limit Switch Function

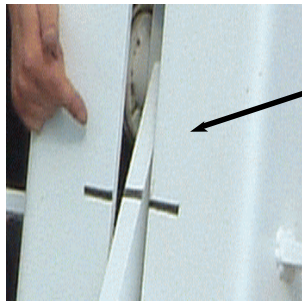
As the load goes past maximum height, one wheel touches a small arm on one **limit** switch.

This **shuts all the power off** to the **lever** switch and the **gear head motor** will not turn in either direction.

As the load goes too low, all the power is shut off by the last chain link in the hoist, pulling a spring arm on the other **limit**.



Lower **Limit** and spring
Upper **Limit** contacted by wheel
Inside tower View



Both **limit** switches do their job in this part of the tower.

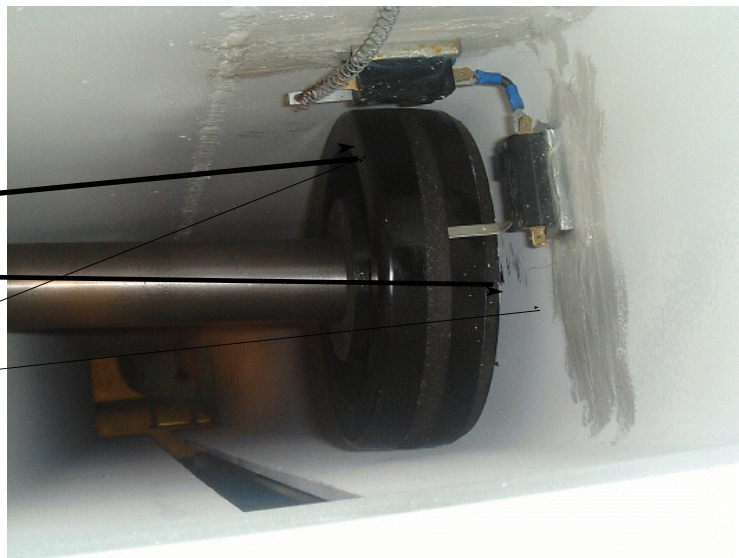
In the case of the lift all the way up, you'll need to set the **lever** in the down position. Then push the override in for 3 seconds and power is returned as the upper **limit** switch is relieved.

So if the lift travelled all the way down and the power shut off, you set the **lever** in the up position and push in the override for 3 seconds. Power comes on and the lift travels up and away from the **limit** switch and the **lever** works normal again.

If you **fail to position** the **lever** accordingly you will crush the limits and **damage the lift** chain Hoist.

Damage zone.

Limit leads attach here from lever switch.



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Manual Emergency Crank

Electric drive hub

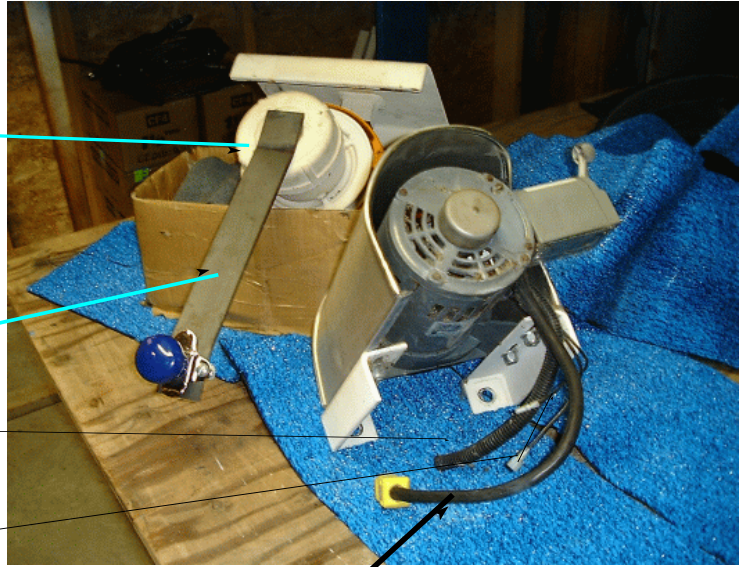
Emergency crank

Lead cover (loom)

Limit switch leads

If there isn't power to your dock or lift,
you can lift your boat manually.
Unplug the power cord and the limit lead connections.

Power cord and plug



Use a 9/16" wrench to remove the gear head unit (2 - 3/8 bolts only).

Do not remove the four main assembly bolts that hold the unit as one piece.

Set the unit on the dock away from where you'll stand to manually crank the lift.

Plug the emergency crank handle into the hub.

Turn spinner and handle clockwise to raise lift. Turn handle counter clockwise to lower the lift.

This operation is as safe as the regular manual Leisure Boat Lift.

Drum Lever

Chain Hoist Winch

Electric drive hub

Emergency crank with spinner

Electric drive head

Complete unit mounting brackets

2- 3/8" bolts use 9/16" wrench

