Electric Drive Conversion



**Dayton GearHead** Electric Motor Hardened Steel Gear Transmission

Complete Removable 2 Bolt Mounted Brackets

Removable for Manual Operation Emergency Spinner Handle

Supplied

Limit Switch Connection Coloured Wire Split Black Plastic Cover

Standard **Yellow** Male 3 Prong Plug

Wet Locations Covered Power Outlet 120 V.A.C. Ground Fault Interrupt

Teck Cable Power 120 V.A.C. Supply Panel

Top Shroud Chain Hoist Tackle Block Decorative

Wobble Switch Relay Up Stop Down Directional Switching Enclosure

Top Shroud Electric Drive

Plug the Unit power cord into covered outlet.

Move the wobble switch & hold in the ‘Down’ position to lower the lift.

Release the wobble switch lever to ‘Stop’, every 30 seconds to allow for hoist to cool, in the down direction only.

Move the wobble switch & hold in the ‘Up’ position to raise the lift.

Cooling is not reqired while raising the lift.

Unplug the Unit power cord to rest beneath the protective shroud.



Single Assembly Compilation

Motor GearHead Transmission Shroud & Brackets

Flexible Wobble Switch Plastic Tube

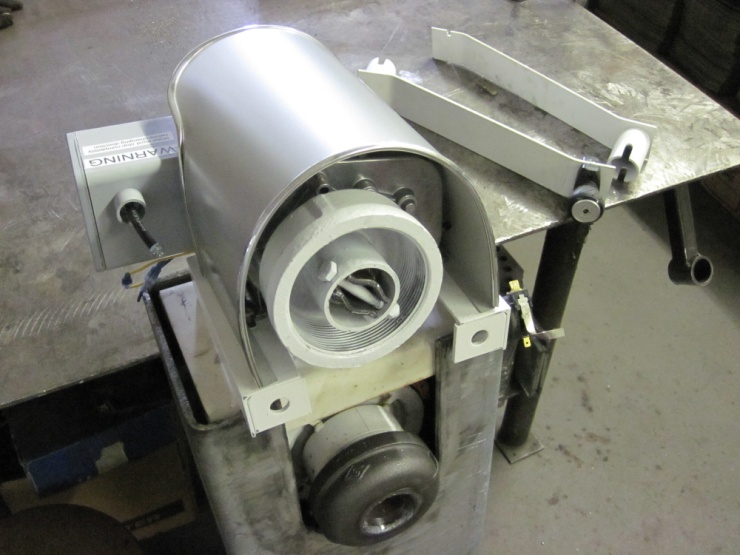
Protective Shroud

Electric Drive GearHead Motor

Up Relay & Down Relay Enclosure Labelled ‘Up’ ‘Stop’ ‘Down’

Electric drive conversion is deemed temporary and portable; as is an electric drill or vacuum cleaner.

Electric Drive Conversion



Chain Hoist Tackle Block & Universal Drive Example

Mounting Brackets & Mounting Alignment Holes

Electric Drive Universal Hub & GearHead Drive Connection

Mounting Brackets & Mounting Alignment Holes

Dayton GearHead Transmission Housing

Emergency Manual Crank & Spinner

Wobble Switch design allows for flexible control.

Damage to the part within the wobble switch, is minimized if any objects impact the unit.

For example, the switch will resist a beach ball kicked or a wet towel, thrown against the lever.



Electric Drive Hub exposed & GearHead Assembly unbolted

Emergency Crank & Spinner

To be stored with a 9/16”or 14 mm wrench or socket

Example of Foot Lever Switch & Magnet

Two will be attached inside the tower with adhesive

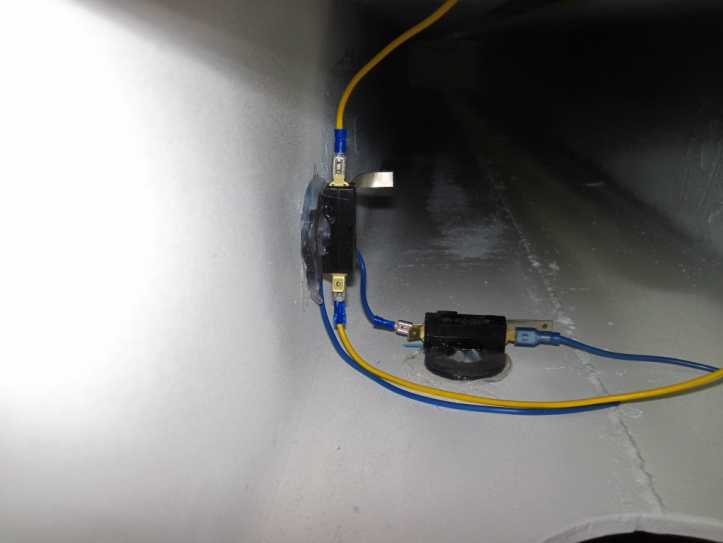
Emergency spinner handle supplied, used for manual operation.

Electric Drive Conversion

Important Foot/Spring Lever Switches

When the lift reaches maximum height, a wheel roller inside the tower moves the lever of the upper limit switch.

The power is shut down to the electric drive and will stop in the up direction only.



Blue for Down direction interrupt. With spade connection.

Spring Lever Switch is triggered by last chain link.

Magnet mount and adhesive allows operation

to trigger limit switches with 1 ounce of contact.

Yellow for Up direction interrupt. With spade connection.

Triggered when wheel roller touches Foot Lever Switch

As the load chain is let out, the Spring Lever Switch interrupts power to the wobble switch. This is at the lowest point.

Power is still active in the up direction.



Last Chain Link Triggers Spring Lever

In Down Direction

Foot Lever Switch Triggered From Wheel Roller Contact

In Up Direction

As the load chain lifts, the Foot Lever Switch interrupts power to the wobble switch at the highest point.

Power is still active in the down direction.

Electric Drive Conversion



Visually Examine Chain Fall. Must Be Without Twist. Must be ‘taut’ at all times, not slack.

High Limit Mark. Expect Shut Off of Wobble Switch in the ‘Up’ position.



Visual Aid Mark for Lowering & High Limit

Foot Switch & Spring Lever Switch are in position.



Visual Inspection is a part of equipment operation.

Look inside through the tower slot to ensure lift chain is in alignment.

Visual Inspection is a part of equipment operation.

Look inside through the tower slot to ensure Lever and Foot Switches are as in the photo.



Chain Hoist Condition Good: 3 Chains Spaced 2 inches.

Very Important. The photo shows normal condition.

Leisure Boat Lift

Electric Drive Conversion

Important

Make sure to always let the Wobble switch return to the ‘Stop’ position by letting it rest.

Damage will occur while moving the Wobble Switch repeatedly, quickly or with out reason.

If the wobble switch is moved too quickly, the Electric Drive Motor continues its same rotation,

lifting or letting the load move the same direction it was traveling.

This will ignore the safety of each directional limit and cause major damage.

Damage is repairable and costly.

Know your equipment.

Look at what the lifter is doing.

Never Allow the Lift Chain to become loose or slack!

When the power to the dock is unavailable, retrieve the emergency crank handle and 14mm socket or 9/16”wrench.

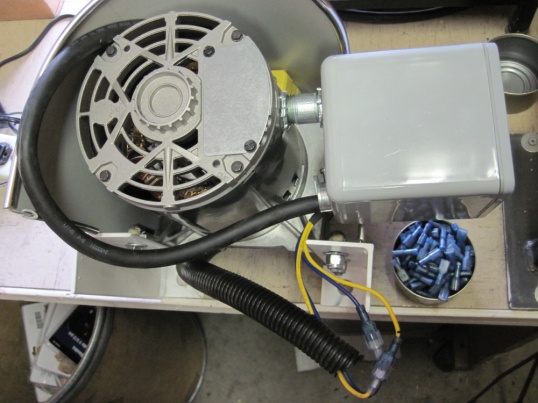
Wiring is detachable on the outside of the tower. Female And Male Spade connections are used.

Unplug each electrical connection. They are: The big yellow plug.

The 2 blue wire spade connections.

The 2 yellow wire spade connections.

These are in the split ribbed black plastic covering.



28 Foot Pounds Torque

12 amps ‘Starting’

5.2 amps full load ‘Running’

Dayton GearHead type, 120 V.A.C..

Removable Single Bolt Mounted Brackets

Operation cost is $0.32 per hour.

No User maintenance or lubriction points on electric drive motor.

Can be coverd in winter months with a plastic utility bag.

1-800-661-2004