



HEWITT DIRECT DRIVE UNIT

As of Jan. 2002 LWHD

Parts List/Installation Instructions

WARNING

Be sure power cord is unplugged from electrical source when installing or adjusting this product.

Never operate the winch without the protective chain cover in place.

The Hewitt Direct Drive Unit is designed only for use with Hewitt Winch Models 2001 & 1501.

110V MODEL LWHD110

- (1) Motor Mounting Plate LWHDMD3
- (1) Winch Mounting Plate LWHDWDD4
- (1) Switch Box Mounting Plate LWHDSMP1
- (1) Motor 110v With Cord & Switch LWHDL110
- (1) Chain Cover LWHDHC
- (1) 55-Link Chain NCH4055
- (1) Shaft Key LWHDSK
- (1) 16-Tooth Threaded Sprocket WHD40B16
- (1) 16-Tooth Sprocket WHD40S16
- (2) 6/32 X 1/2" Screw NB63212G
- (2) 6/32 Nut NN632S
- (4) 1/4" x 1" Bolt NB141G
- (4) 1/4" Nuts NN14S
- (2) 5/16" X 1" Bolt NB5161G
- (2) 5/16" flat Washer NW516FL
- (2) 3/8" X 1-1/4" Bolt NB38114G
- (1) 3/8" X 1-1/2" Carriage Bolt NB38112C
- (3) 3/8" X 2-1/2" Carriage Bolt NB38212C
- (9) 3/8" Nuts NN38S
- (1) Vinyl Motor Cover LWHD1C

PARTS

12V MODEL LWHD12

- (1) Motor Mounting Plate LWHDMD3
- (1) Winch Mounting Plate LWHDWDD4
- (1) Switch Box Mounting Plate LWHDSMP1
- (1) Motor 12V With Cord & Switch LWHDL12
- (1) Chain Cover LWHDHC
- (1) 55-Link Chain NCH4055
- (1) Shaft Key LWHDSK
- (1) 16-Tooth Threaded Sprocket WHD40B16
- (1) 16-Tooth Sprocket WHD40S16
- (2) 6/32 X 1/2" Screw NB63212G
- (2) 6/32 Nuts NN632S
- (4) 1/4" x 1" Bolt NB141G
- (4) 1/4" Nuts NN14S
- (2) 5/16" X 1" Bolt NB5161G
- (2) 5/16" flat Washer NW516FL
- (2) 3/8" X 1-1/4" Bolt NB38114G
- (1) 3/8" X 1-1/2" Carriage Bolt NB38112C
- (3) 3/8" X 2-1/2" Carriage Bolt NB38212C
- (9) 3/8" Nuts NN38S
- (1) 12' Battery Cord LWPWCB
- (1) Vinyl Motor Cover LWHD1C

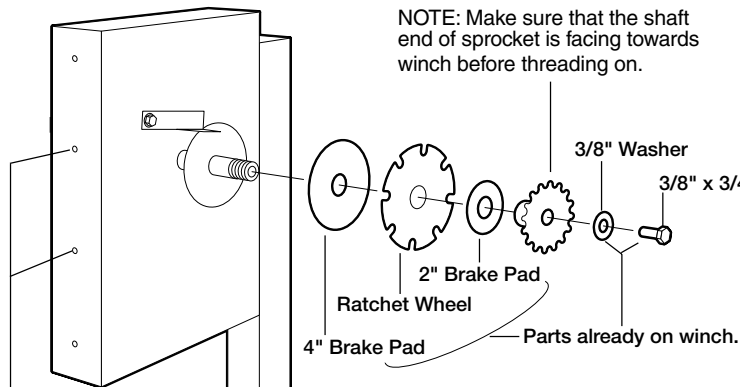
PREPARATION

Remove load from winch prior to beginning installation.

If the Power Drive is being installed on an existing manual Hewitt winch, remove the hand wheel from the threaded winch shaft.

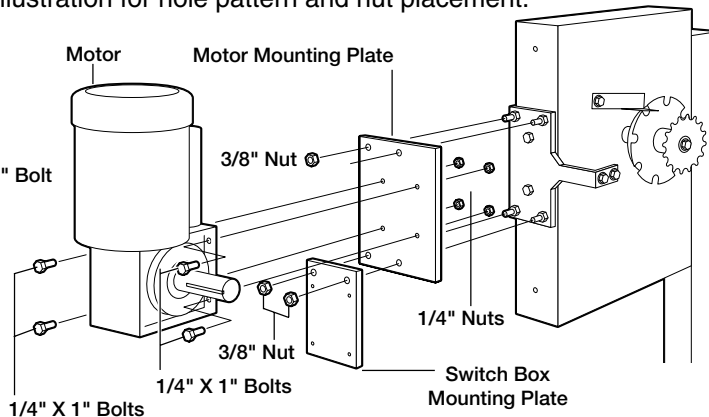
STEP 1 (Left Side Mounting)

Remove grey plastic cover from winch shaft if equipped with one. Screw small sprocket onto threaded winch shaft and tighten.



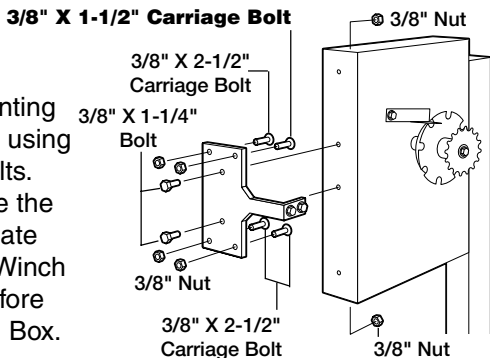
STEP 3

Position motor. Place the 1/4" X 1" Bolts in the "pockets" on the motor as shown and secure with 1/4" nuts. Install the Motor Mounting Plate Assembly and Secure with (3) 3/8" nuts. See illustration for hole pattern and nut placement.

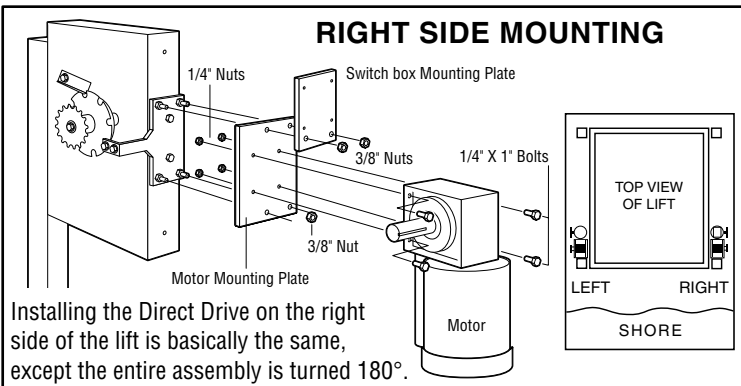


STEP 2

Mount Winch Mounting Plate to Drum Box using (2) 3/8" X 1-1/4 bolts. Make sure to place the motor Mounting Plate Bolts through the Winch Mounting Plate before fastening to Winch Box.



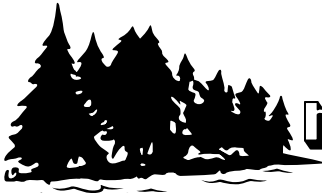
RIGHT SIDE MOUNTING



Installing the Direct Drive on the right side of the lift is basically the same, except the entire assembly is turned 180°.

"Quality Since 1971"

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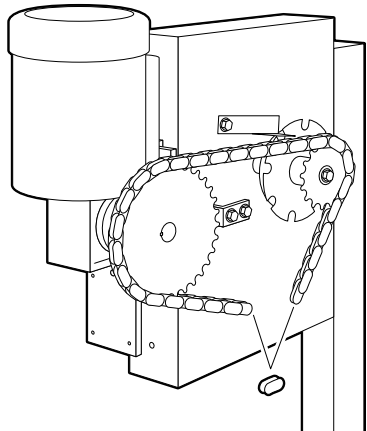
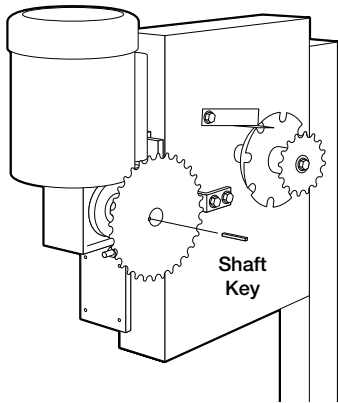


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HEWITT DIRECT DRIVE UNIT Installation Instructions (cont.)

STEP 4

Place sprocket on motor shaft. Align the key way on the sprocket with the groove on the motor shaft and insert shaft key.

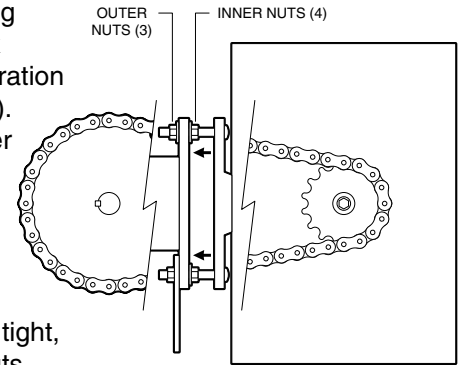


STEP 5

Place chain around sprockets and join with connector link.

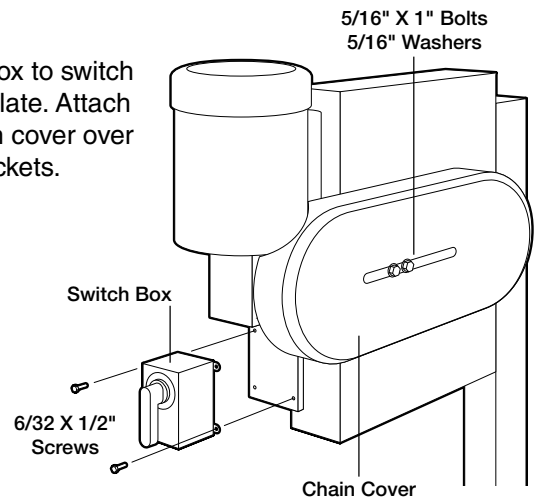
STEP 7

Adjust motor mounting plate to remove slack from chain. (See illustration at top of next column). Back-off the four outer nuts on the motor mounting plate bolts. Turn inner nuts counterclockwise to increase tension on chain. When chain is tight, retighten the outer nuts.



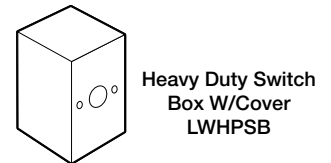
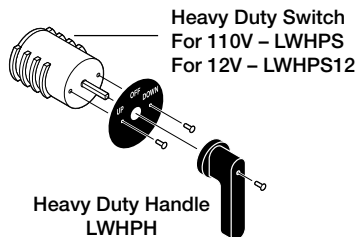
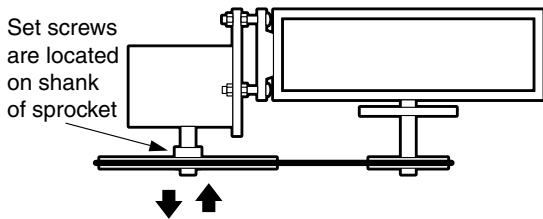
STEP 8

Attach switch box to switch box mounting plate. Attach protective chain cover over chain and sprockets.



STEP 6

Adjust the position of the large sprocket on the motor shaft so that both sprockets are directly in line and the chain is straight. Tighten set screws on large sprocket.



NOTE: If end of power cord is cut - Warranty is void.

CHECK WIRE SIZE TO INSURE FULL POWER

MOTOR HP	MINIMUM SIZE COPPER WIRE FOR FULL POWER									
	0-50 FT		50-100 FT		100-200 FT		200-300 FT		300-400 FT	
	110V	220V	110V	220V	110V	220V	110V	220V	110V	220V
1/2 HP	12	-	8	-	6	-	4	-	4	-
3/4 HP	12	14	8	10	6	10	4	10	3	6
1 HP	10	12	8	10	4	10	3	8	2	6
R-1-01	MAXIMUM VOLTAGE DROP 4% FOR FULL POWER									

OPERATION

Plug power cord into a ground fault protected electrical outlet (110V model) or connect cable to boat battery (12V model). Holding the switch in one direction raises the lift; holding it in the other direction lowers the lift. The switch automatically returns to the center position (Off) when released.

Periodically check assembly to ensure that chain and bolts are tight.