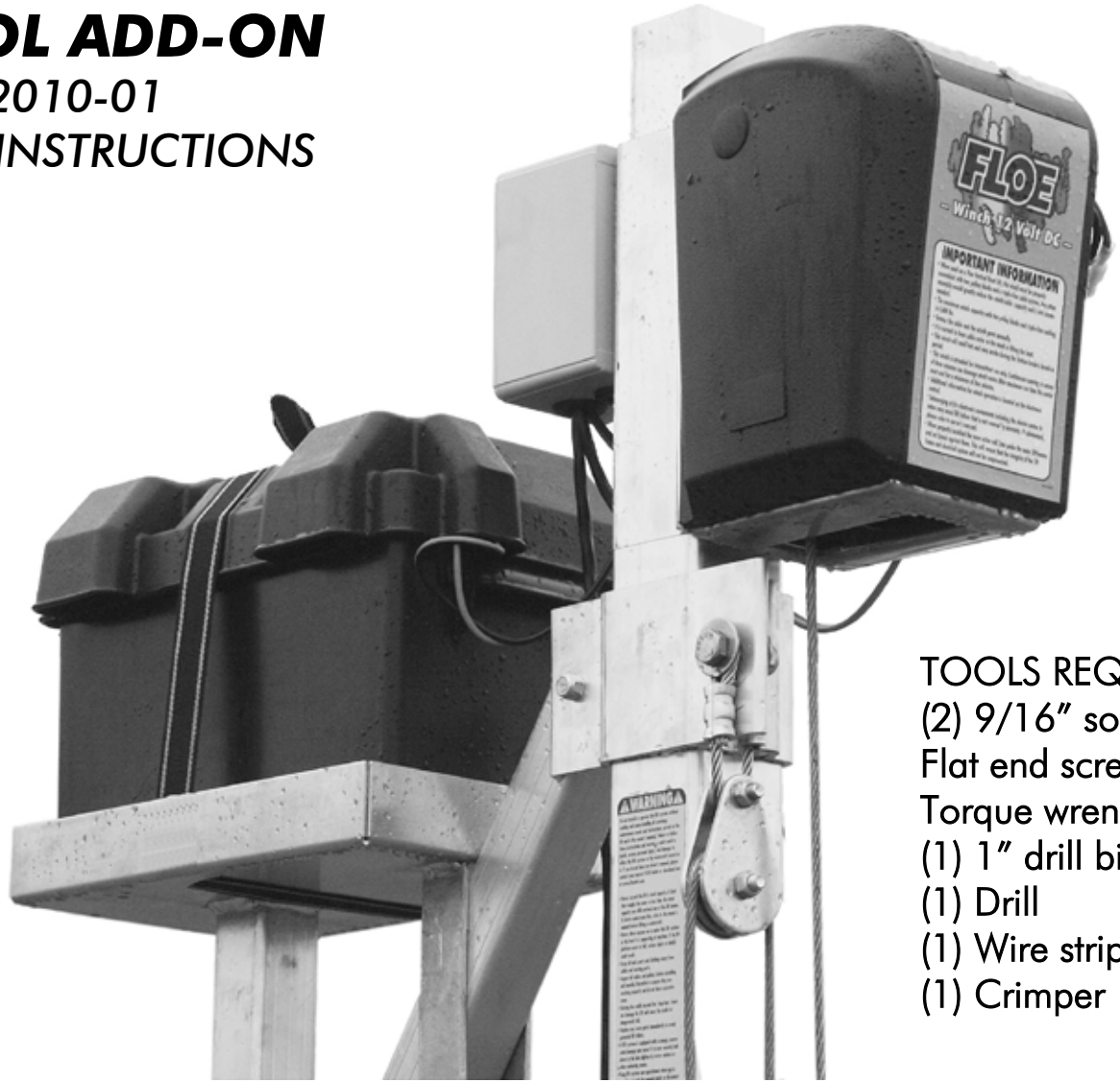
DC WINCH REMOTE CONTROL ADD-ON

P/N 511-52010-01

ASSEMBLY INSTRUCTIONS



TOOLS REQUIRED:
(2) 9/16″ socket or wrench (1)
Flat end screwdriver (1)
Torque wrench
(1) 1″ drill bit
(1) Drill
(1) Wire stripper
(1) Crimper

INSTRUCTION P/N: 611-52005-01
ISSUE DATE: 8/18/10
REVISED 12/21/21

Manufactured By: Floe International, Inc. 48473 State Hwy. 65 McGregor, MN 55760

PARTS LIST:

(1) Two – HHCS, 3/8-16 x 3" 001-70115-00

(2) Two – Nut, 3/8-16 Aluminum 001-76349-00

(3) One – Box, Battery w/Volt Meter 111-00461-00

(4) One – Push On, 10ga Insulated Female, 007-05260-00

(5) One – Push On, 10ga Insulated Male, 007-05261-00

(6) One – Diagnostic Check List, 007-05305-00

STORE IN BATTERY BOX FOR FUTURE REFERENCE

(7) 5 Yards – 1/2" Double Sided Velcro, 014-02310-00

(8) One – V-Brace Battery Tray Weldment, 111-00012-00

(9) One – DC Winch Tool Kit, 111-00106-00 (Includes #10, 11, 12)

(10) One – Tool Kit Pouch, 007-03980-00

(11) One – 3/8" Drive Socket Adapter, 007-03981-00

(12) One – DC Winch Test Plug, 007-05302-00

(13) One – DC Winch Limit Magnet Assembly, 111-00310-00

(14) One – DC Winch Limit Switch Assembly, 111-00372-00

(15) One – Wired Remote with Key Switch, 111-70010-00

(16) One – DC Winch Advanced System Control, 311-52030-01

(17) One – 50 AMP Auto-Reset Circuit Breaker Assembly, 111-70016-00 (Part of Item #16)

STEP 1:

Unplug the switch. If difficult, pry with a large flat end screw driver. (Fig. 1)

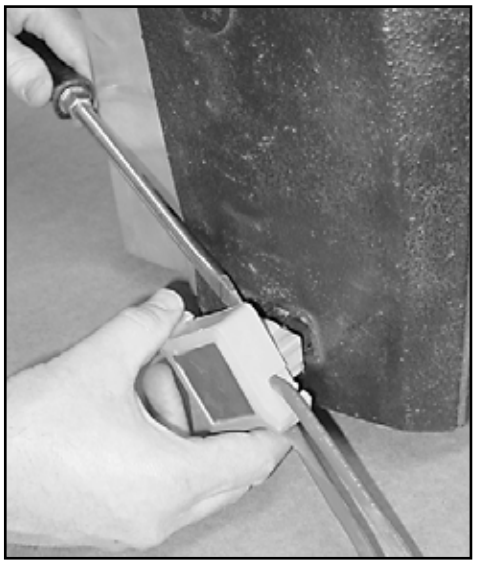


Fig. 1
Removal of
Rotary Switch

STEP 2:

Remove four attachment screws from plastic winch cover with large flat end screwdriver. (Fig. 2).

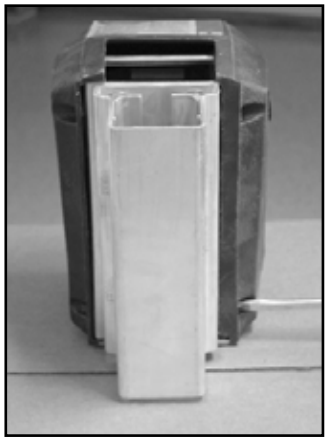
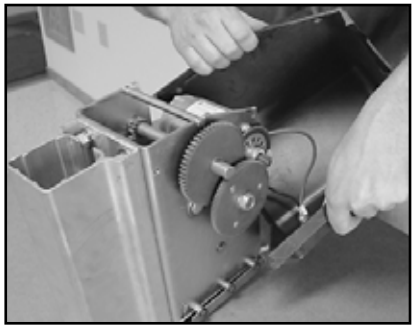


Fig. 2 Removal
of four screws.



STEP 3:

Pull open and remove plastic winch cover. It is difficult to get the cover around the gears. (Fig. 3).

Fig. 3
Removal of plastic
winch cover.

STEP 4:

Remove nuts from behind the switch pocket with an 11/32″ wrench or socket. (Fig. 4)

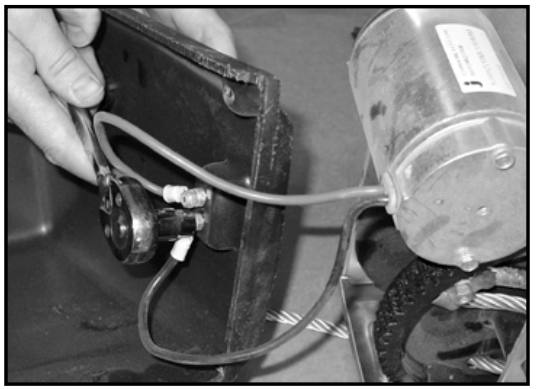


Fig. 4
Remove nuts located
behind switch pocket.

STEP 5:

Cut off ring connectors from motor leads with wire cutter. (Fig. 5) Leave the remaining wires 2 1/2″ long when measured from the motor.

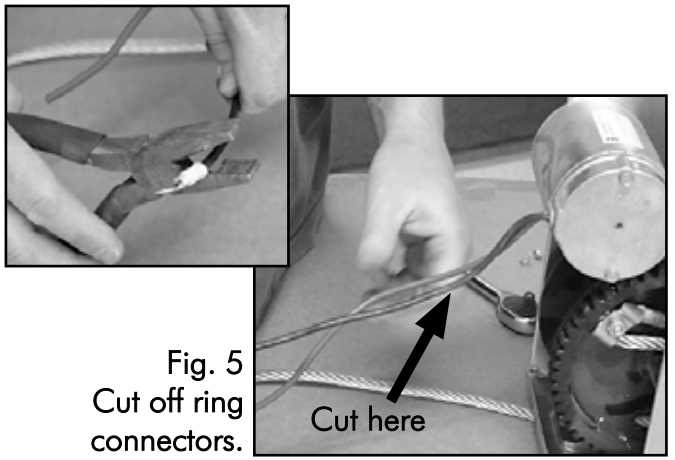


Fig. 5
Cut off ring
connectors.

STEP 6:

Drill 1″ hole for the grommet (attached to the Electronic Control Box) to fit into. (Fig. 6) As you face the front of the cover the hole should be drilled in the upper right hand corner.

Fig. 6
Drill hole for grommet.

STEP 7:

Strip the insulation from the end of each motor lead to 3/8", (Fig. 7A) Crimp the included male connector on the the red motor wire and the female connector
on the black wire. (Fig. 7B)

Fig. 7A Strip insulation.

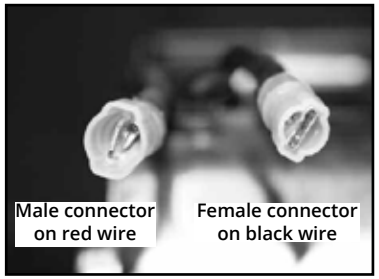


Fig. 7B atttach new ends.

STEP 8:

Feed motor wires with the new ends through the hole you drilled in the winch cover (Fig. 8A). Replace the winch cover over the motor and replace the four screws. Connect the wires on the new Electronic Control Box to the wires exiting the motor cover (Fig. 8B). Push the connections into the motor cover. The wires and connections need to be pushed up to the top of the cover. This keeps the wires away from the gears. Install the grommet into the hole in the motor cover (Fig. 8C).


Fig. 8A Push wires out hole in cover

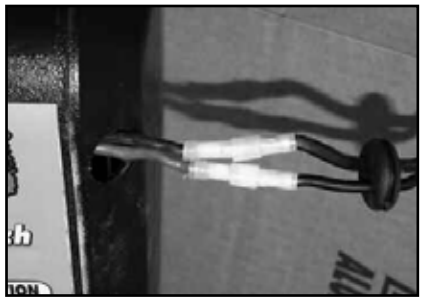


Fig. 8B Connect the wires of the Electronic Control Box to the wires from the motor.

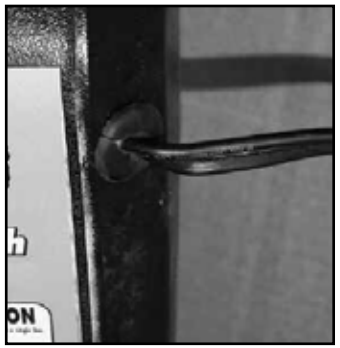


Fig. 8C Insert the rubber grommet into the hole in the cover.

STEP 9:

Slide winch assembly over winch post (Fig. 9A). Connect the two wires with spade connectors from electronic control
box to the wires exiting the winch (Fig.9B). Push the connectors into the winch box


Fig. 9A Winch Assembly & Winch Post.

and install the grommet on the control box wires into the hole on the winch box. Clean and adhere the dual lock to back side of the
winch mount 3-3/4" down from the top of the winch mount and centered. Attach the Advanced Switch
Control box to the winch by sliding the bolt head and washer into the nut track on the lift leg (Fig.9C). And firmly pressing the dual lock pads together (Fig. 9D).

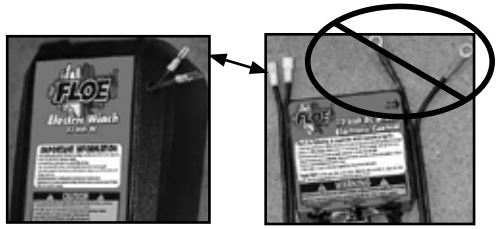


Fig. 9B Connect wires from control to winch.

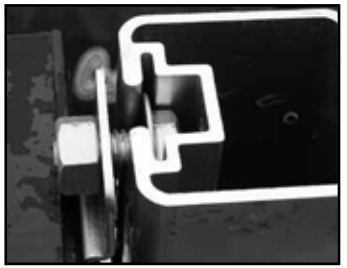


Fig. 9C
Slide the mounting tab into the nut track on the lift leg.


Fig. 9D Attach the electronic control box

STEP 10:

Place V-brace battery tray so that it is positioned 5″ from the lifting post as shown (Fig. 10) and fasten with (two each) 3/8-16 x 3″ bolts and aluminum nuts. The bolt heads should be to the inside of the lift. Torque to 25 ft/lbs.

Fig. 10
Attach V-brace Battery Tray

STEP 11:

Attach red 8ga power cord with automatic overload circuit breaker to positive side of battery and the black and red to the negative as shown. (Fig. 11A) At the same time attach the Battery Condition Indicator leads (red to positive and black to negative) clean with the alcohol prep wipe included and adhere the unit to the battery box in a location that is suitable for ease of use by removing the protective cover from the hook and loop tape. Example (Fig.11B). Place the diagnostic Check List in the battery box for future reference.

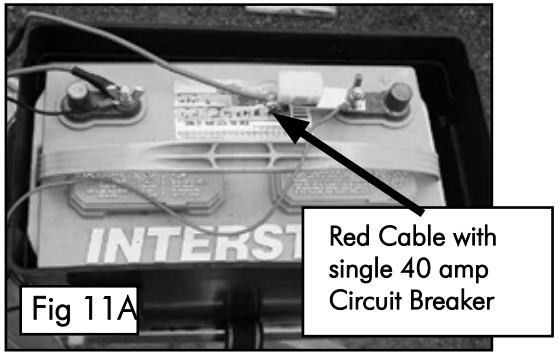


Fig 11A

Fig 11B

STEP 12:

Plug 4 connector wired remote into the corresponding lead of the Advanced
System Control box. NOTE: The wired remote lead is identified by the blue wire tie next to the base of the plug on the ASC as shown. (Fig.12)

Fig. 12 Wired Remote Connection

STEP 13:

Plug 2 lead connector of limit switch assembly into the corresponding lead of the ASC as shown. (Fig. 13)

Fig. 13
Limit Switch
Connection

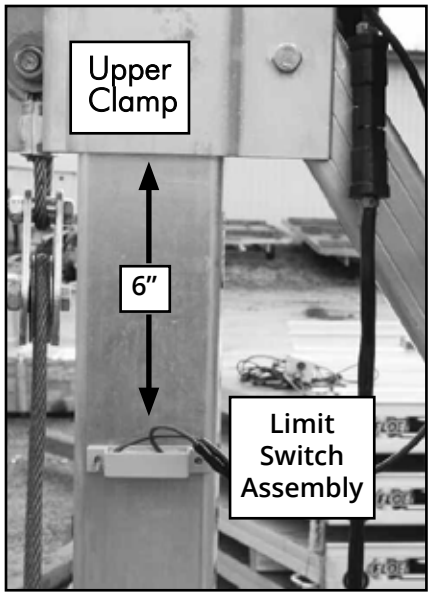


Fig. 14 Limit Switch Placement

STEP 14:

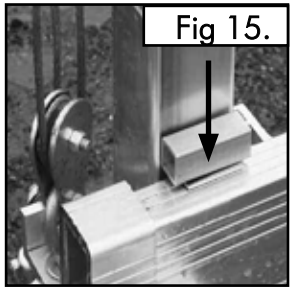
Route wires of the remote and limit switch to the inside of the winch post. Then remove tape masking from the limit switch assembly. On the inward-facing side of the winch corner post, measure six inches from the bottom of the upper clamp, and then free the area of any debris by wiping it with a clean, dry cloth. Adhere the limit switch assembly horizontally as shown in (Fig. 14) For proper adhesion, the temperature should be no lower than 50 degrees. At 70 degrees, allow the tape to cure for at least 24 hours. Secure any loose wires with a portion of the double sided Velcro included.

⚠ WARNING

The safety limit switch assembly must remain intact and working properly or damage may occur.

STEP 15:

Remove tape masking from the magnet holder. Wipe the surface of the cradle beam with a clean, dry cloth. Place the magnet holder on top of the side cradle beam (flush with the outside edge) in line with the corner post and limit switch. (Fig. 15)

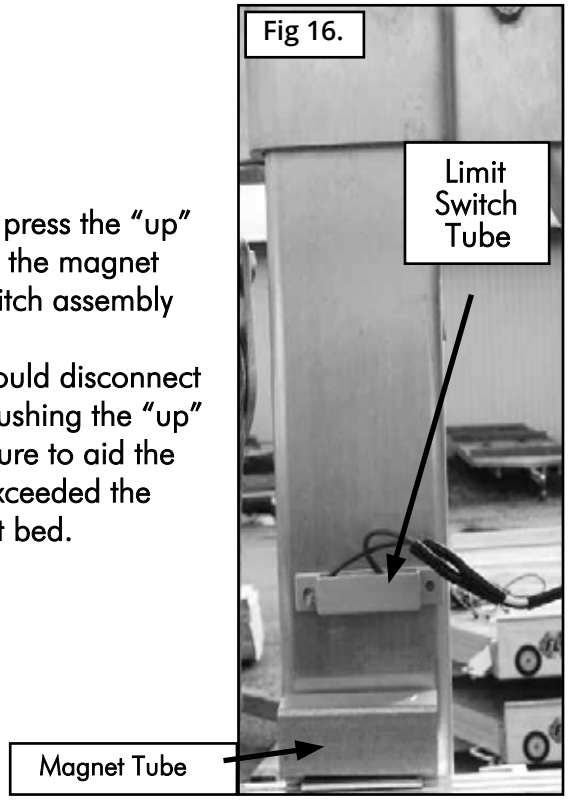


⚠ WARNING

This magnet holder must remain intact and must be checked periodically. There should be no more than 1/2" gap between the inner edge of the side
cradle beam and the corner post when the lift bed is shifted away from the corner post. If there is more than 1/2" gap, adjust the side cradle beam
toward the corner post (see lift assembly instructions).

STEP 16:

First time operating winch, press the "up" button while noticing when the magnet holder reaches the limit switch assembly (Fig. 16).
The power to the winch should disconnect even though you are still pushing the "up" button. This is a safety feature to aid the operator, in case he has exceeded the upper travel limits of the lift bed.



IMPORTANT - If the winch continues to run while the magnet holder and limit switch tube pass by each other, then either the limit switch is not connected properly, is defective, or it is not adjusted correctly. For proper adjustment, see step 10.

⚠ WARNING

The operator should always watch the lift bed and stop before exceeding the stop limit and the "Stop Here " decals. Failure to do so can result in serious bodily injury or death.

STEP 17:

Apply waterproof grease to winch cable to prevent premature wear.

STEP 18:

SECURING AND PLACING WIRED REMOTE: FLOE recommends that you place the winch on the side of the lift away from the dock. If the lift is equipped with a canopy system, the cord on the remote should be attached with Velcro one-wrap to the canopy upright tube and the canopy hoop so that it extends across the frame. This allows you to locate the wired remote in a convenient position. Run the wired remote cord up from the winch in the winch post channel (Fig. 18A), up and across the closest canopy frame hoop to its midpoint, and then along the center rail to a position where the wired remote hangs within easy reach from your dock or boat. (Fig. 18B)

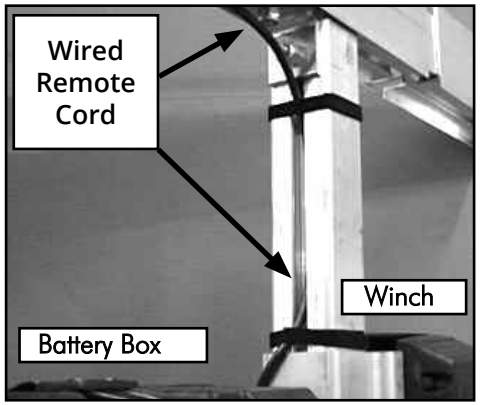


Fig. 18A
Winch Post Channel (showing wired remote cord running from winch through channel and up to canopy frame).

If your lift is not equipped with a canopy, you can still have the winch on the opposite side from the dock by adding the wireless remote option.

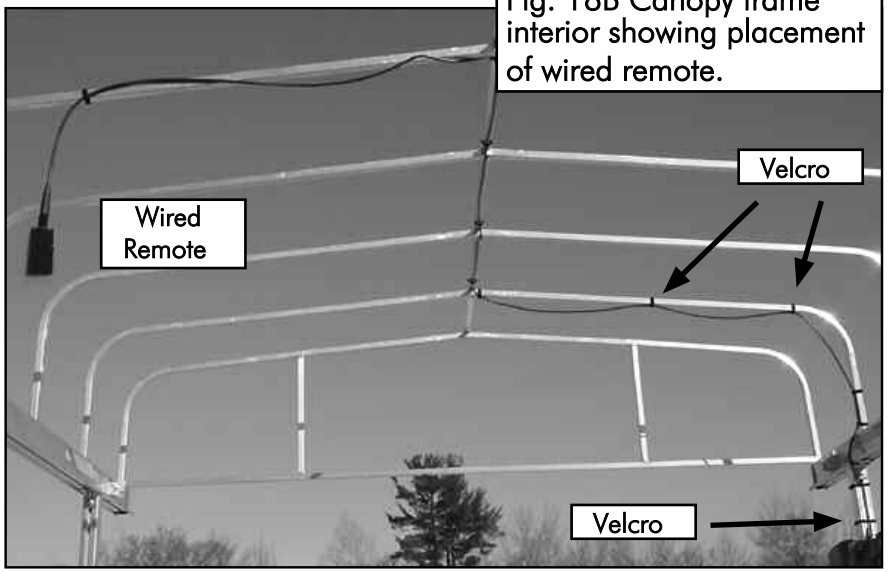


Fig. 18B Canopy frame interior showing placement of wired remote.

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