

Powerwinch®

OPERATION

WINDLASS

MODEL 625

READ CAREFULLY BEFORE ATTEMPTING TO ASSEMBLE, INSTALL, OPERATE OR MAINTAIN THE PRODUCT DESCRIBED. PROTECT YOURSELF AND OTHERS BY OBSERVING ALL SAFETY INFORMATION. FAILURE TO COMPLY WITH INSTRUCTIONS COULD RESULT IN PERSONAL INJURY AND/OR PROPERTY DAMAGE. RETAIN INSTRUCTIONS FOR FUTURE REFERENCE.

Description

The model 625 anchor windlass retrieves and spools river, mushroom or navy type anchors. This windlass features power-in and power-out operation with a switch that can be deck or base mounted. The model 625 windlass is rated for a maximum working load of 200 lbs.

Unpacking

When unpacking this product, carefully inspect for any damage that may have occurred during transit.

General Safety Information

The following safety precautions must be followed at all times:

1. Read all manuals included with this product carefully. Be thoroughly familiar with the controls and the proper use of the equipment. Only persons well acquainted with these rules of safe operation should be allowed to use the windlass.

▲ WARNING ▲

ALWAYS UNPLUG THE WIRING HARNESS TO PREVENT ACCIDENTAL STARTING BEFORE ATTEMPTING TO INSTALL, SERVICE, RELOCATE OR PERFORM ANY MAINTENANCE.

2. Never use the windlass to lift or move people or animals.
3. Stand away from the windlass when in use and keep children free from windlass area at all times.

▲ WARNING ▲

ALWAYS STAND CLEAR OF THE AREA BETWEEN THE LOAD OR ANCHOR POINT AND THE WINDLASS. SERIOUS INJURY COULD OCCUR, IF THE ROPE BREAKS.

4. Always keep hands clear of rope spool (drum area).

General Safety (Continued)

5. Do not wear loose fitting clothing, scarves, or neck ties. Loose clothing may become caught in moving parts and result in serious personal injury.
6. Always wire the windlass with a circuit breaker. Failure to use the breaker could cause overheating thus creating a potential fire hazard or motor damage.

▲ CAUTION

When the windlass is not in use, the safety chain must be attached to the anchor. The safety chain must be used when the anchor is in the "up" position. Possible boat damage could occur if the safety chain is not used. Failure to use the safety chain voids the warranty.

7. Always check for proper direction of rope rotation before using the windlass. The windlass must be properly wired to ensure proper direction of rotation.
8. Inspect the entire rope for weak or worn condition or kinking (short tight twist or curl) before each use, especially where the anchor attaches.
9. Replace the rope that is specifically rated for this windlass.
10. Never substitute cable for rope. Possible injury could occur.
11. Do not attempt to pull a load greater than the rated load of the windlass. **Never** use an anchor over 20 lbs.

▲ CAUTION

Do not adjust the set screw on the motor. This screw is factory set and must not be adjusted. Adjustments made to the set screw automatically voids the warranty.

12. Do not operate the windlass under the influence of drugs, alcohol, or medication.

Specifications

Model	Max. Anchor Weight	No Load Line Speed (FPM)	Line Size & Length	Voltage (Volt)	Circuit Breaker (Amps)	Unit Weight (lbs)	Depth	Height	Width
625	20 lb	80	3/16" 100 ft	12	15	30	10.5"	6"	9.25"

Installation

Tools Required:

- Electric drill and 5/16" drill bit
- Terminal crimping tool
- Adjustable wrench
- Phillips-head screwdriver

Material Required (not included):

- 1/4" bolts (4) and nuts (4) (Bolt length depends upon deck thickness)
- 1/4" diameter flat washers (4)
- Marine plywood (optional) for underdeck support back plate
- 6-32" screws (4) for the switch mounting plate (Bolt length depends upon mounting location)
- Shackle for anchor attachment
- Anchor
- Battery terminal (2)
- #8 AWG or #10 AWG wire
- 8-10 insulated flange terminals (4)
- 8-10 ring terminals-#10 stud (1)
- 8-10 ring terminal-5/16" stud (1)
- 8-10 insulated butt connector (2)

WIRING SELECTION AND SPECIFICATION

Estimate wire length needed to run from the battery to the switch and from the switch to the anchor-pro. The total wire length is defined as battery to switch, switch to anchor-pro, plus the reverse direction. If the total wire length is less than 50 ft., use #10 AWG. If the total wire is greater than 50 ft., use #8 AWG

APPROXIMATE WIRE LENGTH	INSULATION CLASS	WIRE GAUGE
Less than 50 ft.	80°C (176°F)	#10 AWG
Greater than 50 ft.	80°C (176°F)	#8 AWG

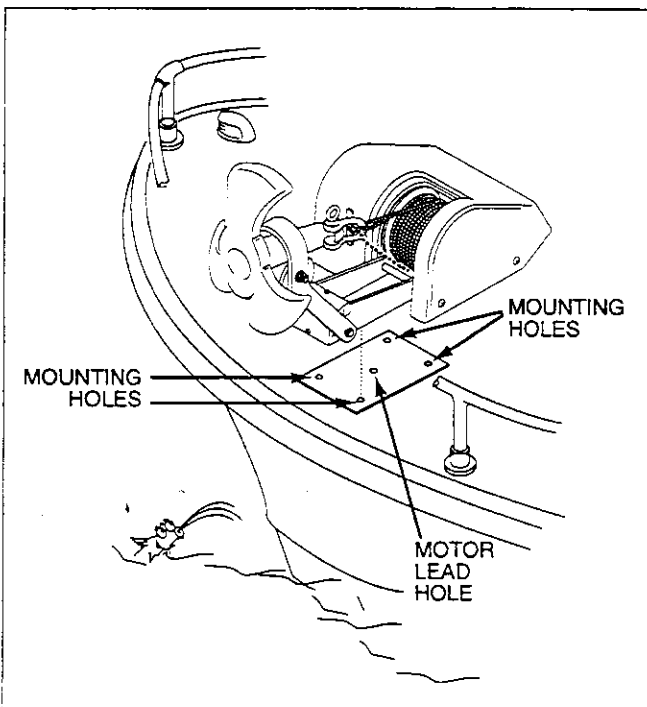


Figure 1 Mounting And Wiring Hole Locations

MOUNTING

The windlass can be mounted on the fore (front) or aft (rear) of the boat. To mount the windlass, refer to Figure 1 and follow the procedures outlined below.

1. Place the enclosed template in the desired position on the deck.
2. Spot and drill the holes as shown on the template. There are four 5/16" mounting holes and one 5/16" hole for the motor leads (See Figure 1).
3. Place the windlass in position and bolt the windlass to the deck. Use oversized washers and/or marine plywood under the deck to ensure the greatest strength and to spread the load.

REMOTE SWITCH INSTALLATION AND WIRING

To install and wire the switch to a remote location (console, bulkhead, etc.), refer to Figure 2 and follow the outlined procedures.

1. Select the suitable location (bulkhead, console, etc.) for the switch and cut a hole 1-3/4" high and 1" wide.
2. Attach the switch mounting plate with the four screws and snap the switch into place.

CAUTION

Never attach the circuit breaker to the battery ground terminal (negative (-) post).

3. Attach the busbar to the circuit breaker using the lock nut. Attach the circuit breaker to the **positive (+)** side of the battery.
4. Measure and cut the required red and black wire lengths to connect the **battery** to the **switch**.
5. Crimp the small (#10) ring terminal to one end of the red wire and a female disconnect to the other end.
6. Crimp the large (5/16) ring terminal to one end of the black wire and a female disconnect to the other end.
7. Attach the ring terminal on the **red** wire to the unused post on the circuit breaker using a nut.
8. Connect the female disconnect on the **red** wire to Terminal "D" on the back of the switch.

CAUTION

Never attach the black wire to the battery hot terminal (positive (+) post).

Installation (Continued)

9. Connect the ring terminal on the **black** wire to the **negative (-)** battery terminal post.
10. Connect the female disconnect on the **black** wire to Terminal "C" on the back of the switch.
11. Measure and cut the required red and black wire lengths to connect the **windlass** to the **switch**.
12. Crimp a female disconnect to one end of both red and black wires.
13. Connect the female disconnect on the **red** wire to Terminal "B" on the back of the switch.
14. Attach the **red** wire to the **red** motor lead on the windlass using a butt connector.
15. Connect the female disconnect on the **black** wire to Terminal "A" on the back of the switch.
16. Attach the **black** wire to the **black** motor lead on the windlass using a butt connector.

BASE SWITCH INSTALLATION AND WIRING

To install and wire the switch onto the base (cover), refer to Figure 2 and follow the outlined procedures.

1. Unscrew the (4) cover screws and remove the cover.
2. **Carefully** cut out the notched switch area on the front of the cover and snap the switch into place.

CAUTION

Never attach the circuit breaker to the battery ground terminal (negative (-) post).

3. Attach the circuit breaker to the **positive (+)** side of the battery.
4. Measure and cut the required red and black wire lengths to connect the **battery** to the **switch**.
5. Crimp a ring terminal to one end of the red wire and a female disconnect to the other end.
6. Crimp a ring terminal to one end of the black wire and a female disconnect to the other end.

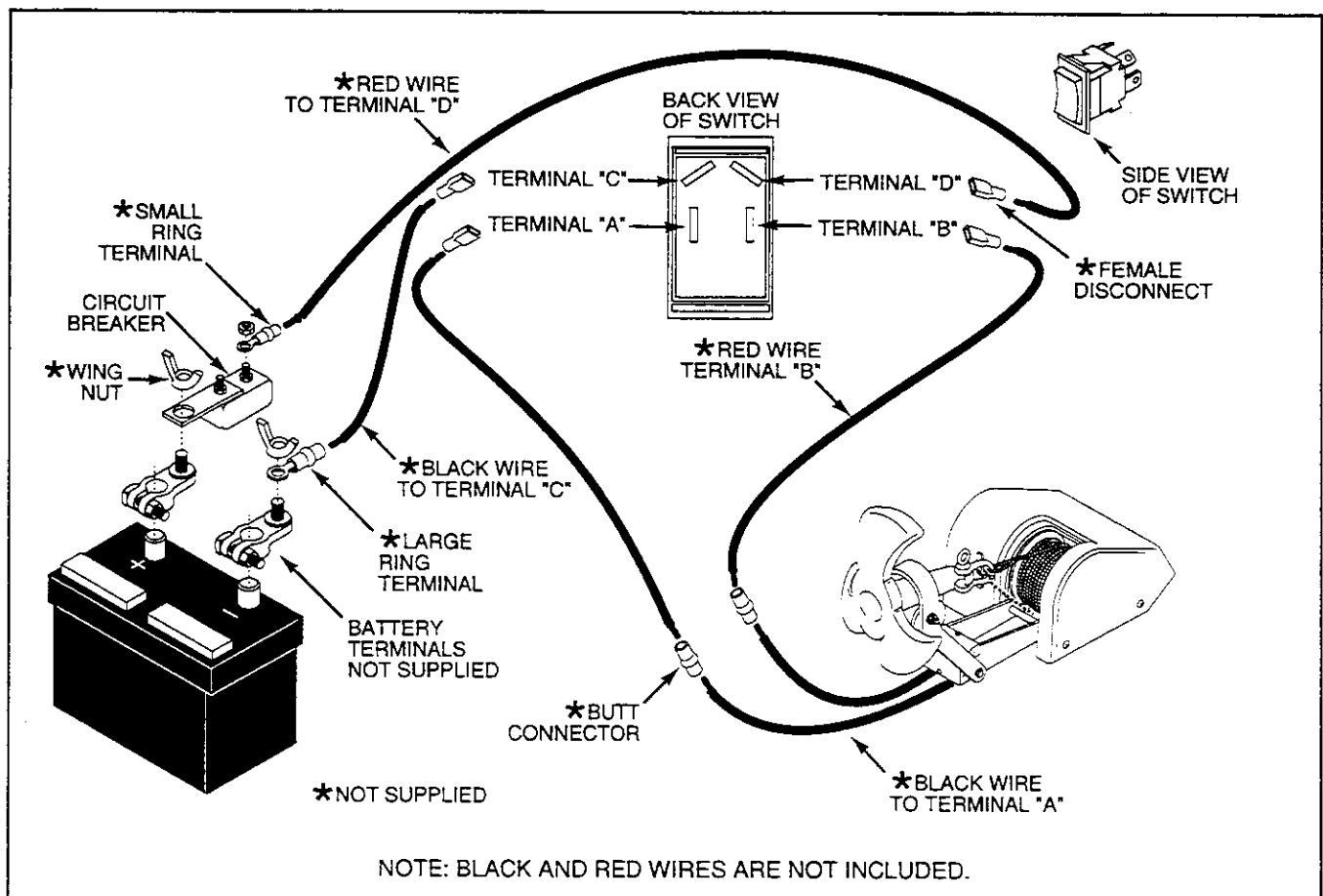


Figure 2 Wiring Diagram

Installation (Continued)

7. Attach the ring terminal on the **red** wire to the unused post on the circuit breaker using a nut.
8. Connect the female disconnect on the **red** wire to Terminal "D" on the back of the switch.
9. Connect the ring terminal on the **black** wire to the **negative (-)** battery terminal post.

⚠ CAUTION

Never attach the black wire to the battery hot terminal (positive (+) post).

10. Connect the female disconnect on the **black** wire to Terminal "C" on the back of the switch.
11. Measure and cut the required red and black wire lengths to connect the **windlass** to the **switch**.
12. Crimp a female disconnect to one end of both red and black wires.
13. Connect the female disconnect on the **red** wire to Terminal "B" on the back of the switch.
14. Attach the **red** wire to the **red** motor lead on the windlass using a butt connector.
15. Connect the female disconnect on the **black** wire to Terminal "A" on the back of the switch.
16. Attach the **black** wire to the **black** motor lead on the windlass using a butt connector.

ROPE INSTALLATION

To install the rope on the drum, refer to Figure 3 and follow the outlined procedures.

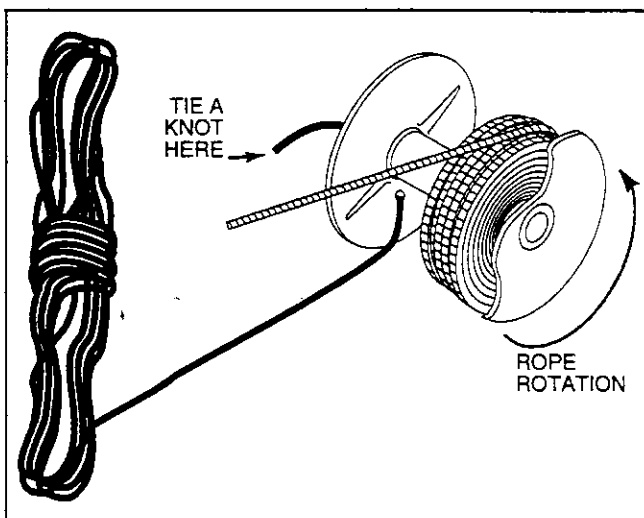


Figure 3 Rope Installation

1. Insert the rope through the hole located on the side of the drum (from the side opposite the countersunk hole).
2. Feed enough rope through to tie a secure knot at the end of the rope.

⚠ CAUTION

The rope must be tied in a knot to secure the rope on the drum.

3. Pull the rope back until the knot is seated in the countersunk opening.
4. Keep tension on the rope and feed the rope onto the drum by running the windlass in the "up" position. Proper rope rotation is essential for proper operation. Make sure the rope rotation corresponds to Figure 3. The rope **must** feed from the **top** of the drum.

ANCHOR ATTACHMENT

Use a river, mushroom, or navy type anchor up to a **maximum** weight of 20 lb. Do not exceed this weight or the windlass will not operate properly.

Attach the anchor to a shackle (not supplied) as shown in Figure 4. Powerwinch has found through experience that the best method of attaching the anchor line to the anchor is to use a hand tied knot.

IMPORTANT: The knot must be securely fastened and tested by the end user before anchoring.

SAFETY CHAIN ATTACHMENT

The safety chain is designed to hold the anchor in place when the windlass is not in use. See Figure 4 and follow the procedures outlined below to attach the safety chain.

1. Feed one end of the chain through the large hole inside the frame closest to the drum. Remove as many chain links as necessary to obtain a tight fit to

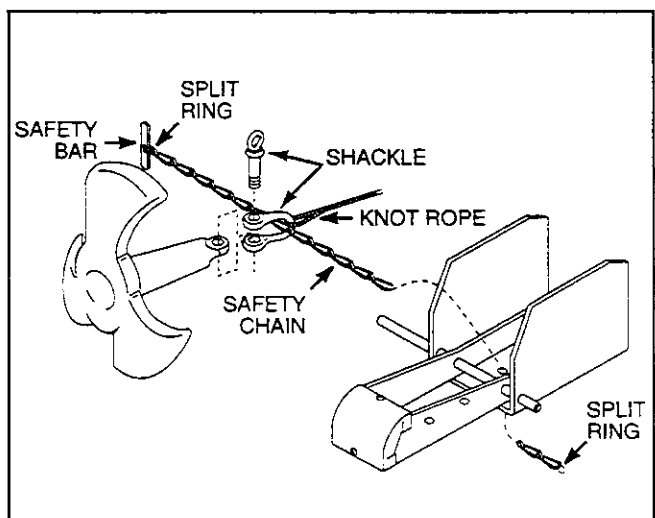


Figure 4 Anchor Attachment

Installation (Continued)

the anchor. Attach the chain to the frame using a split ring.

2. Attach the safety bar to the safety chain with a split ring.
3. Insert the safety bar completely through the anchor eye or shackle. Position the bar perpendicular to the anchor.

⚠ CAUTION

When the windlass is not in use, the safety chain must be attached to the anchor. The safety chain must be used when the anchor is in the "up" position. Possible boat damage could occur if the safety chain is not used. Failure to use the safety chain voids the warranty.

The safety chain must be used when the anchor is in the "up" position. Always release the safety chain before dropping the anchor.

Operation

The windlass is simple to operate. To lower the anchor, press and hold the switch in the "down" position. To raise the anchor press and hold the switch in the "up" position.

⚠ CAUTION

Never change the switch direction quickly without allowing the motor to come to a complete stop. Motor damage could occur.

Maintenance

This windlass does not require any lubrication. However, the rope must be checked periodically for abrasion or deep cuts. Never splice an old rope with a new rope. Also check the connection between the thimble and rope for wear. Replace the rope that is specifically rated for this windlass.

Technical Service

For information regarding the operation or repair of this product, please call 1-800-793-4793.

Replacement Parts Information

For information regarding where to order replacement parts, call toll free 1-800-793-4793. Please provide the following information:

- Model number
- Serial number
- Part number and description

Address parts correspondence to:

Powerwinch
2268 Fairview Blvd.
Fairview, TN 37062

General Troubleshooting Guide

SYMPTOM	POSSIBLE CAUSE (S)	CORRECTIVE ACTION
Windlass will not operate	1. Disconnected or bad wiring or bad circuit breakers	1. Start checking the wiring at the battery. Bypass the circuit breakers and test the windlass. If the windlass operates, replace the circuit breakers. 2. Check the wiring insulation for worn or bare spots that may be causing a short. 3. Check all connections for tightness.
	2. Anchor too heavy	1. Make sure the anchor does not weigh over 20 lbs.
	3. Improper rope rotation	1. See rope installation instructions.

Limited Warranty

- A. This Limited Warranty is given by the Powerwinch Division of the Scott Fetzer Company (the "Company") to the original purchaser (the "Purchaser") of a Powerwinch Product (the "Product") specified in this manual. This Limited Warranty is not trans-ferable to any other party.
- B. Responsibilities of the Company under this Limited Warranty:
1. Repair or replace (at the discretion of the Company) any part or parts of the Product found by the Company to be defective within a two (2) year period from the date of purchase.
 2. The Company will pay the transportation charge for shipment back to the Purchaser of any Product received for legitimate Warranty repair.
- C. Responsibilities of the Purchaser under this Limited Warranty:
1. Complete (fully and accurately) and return to the Company, the Warranty card included in the box. Otherwise, Purchaser will have to show dated proof of purchase to qualify for service under the provisions of the Limited Warranty.
 2. Promptly notify the Seller or the Company of any claim hereunder.
 3. At the Option of the Company, return the Product to the Company for inspection. Au-thorization must be given prior to any Product return. Call the Company at 1-800-793-4793 or write the Company at 2268 Fairview Blvd., Fairview, TN 37062, for authorization and complete instructions on how to return the Product directly to the Company.
 4. Use reasonable care in maintenance, op-eration, use and storage of the Product in accordance with the instructions contained in the Owner's Manual.
5. Have Warranty work performed by a dealer or representative approved by the Company.
6. Except as noted in B.2., transportation charges are the responsibility of the Purchaser.
- D. This Limited Warranty covers:
1. Defects in workmanship or materials.
 2. Any part or parts of the Product sold or manufactured by the Company.
- DI. This Limited Warranty does not cover:
1. Any failure that results from improper installation of the Product.
 2. Any failure that results from accident, Purchaser's abuse, neglect, modification, improper maintenance, or failure to operate and use the Product in accordance with the instructions provided in the Owner's Manual supplied with the Product.
- DII. THERE IS NO OTHER EXPRESS WARRANTY. IMPLIED WARRANTIES, INCLUDING THOSE OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE, ARE LIMITED TO TWO (2) YEARS FROM DATE OF PURCHASE. THIS IS THE EXCLUSIVE REMEDY AND ANY LIABILITY FOR ANY AND ALL INCIDENTAL OR CONSE-QUENTIAL DAMAGES OR EXPENSES WHATSOEVER IS EXCLUDED. Some states do not allow limitations on how long an implied warranty lasts, or do not allow exclusion or limitation of incidental or consequential damages, the above limitations may not apply to you.

This Limited Warranty gives you specific legal rights, and you may also have other rights which vary from state to state.

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