



ENDURANCE MARINE DRUM WINCH

User Manual with Electrical Installation



| EDM SERIES | EDM SS SERIES | EDM F SERIES |
|---|-----------------|----------------|
| *EDM400W-010 | *EDM400W-010SS | *EDM400W-010F |
| *EDM600W-011 | *EDM600W-011SS | *EDM600W-011F |
| EDM1000W-012 | EDM1000W-012SS | EDM1000 W-012F |
| EDM1400W-013 | EDM1400W-013SS | EDM1400W-013F |
| EDM1400W-014 | EDM1600W-014SS | EDM1600W-014F |
| *EDM2500W-015 | *EDM2500W-015SS | |
| <p><i>*These drum winches are special order only*</i></p> <p>All drum winches can be special ordered in 24 Volt</p> <p>50% Deposit is required on all Special Orders</p> <p>Special Orders can take up to 90 days delivery from date of purchase</p> | | |

Congratulations on the purchase of our Anchor Winch which designed and manufactured by ENDNURNCE MARINE

We are very committed to the quality and safety of our product and ask that you read this handbook carefully and follow the installation instructions to ensure you, our valued customer get maximum benefit from our Anchor Winch - the ultimate anchor retrieval system.

Contents:

- ◆ Operating Instructions Standard Model and Stainless Steel Model
- ◆ Operating Instructions Free fall Series
- ◆ Winch Specification and Wiring Diagram
- ◆ Trouble Shooting Guide
- ◆ Warranty

Operating Instructions Standard Model and Stainless Steel Model

- To lower the anchor - push the down switch and start to reverse the boat slowly so you don't get the chain on top of the anchor.
- Lower the anchor until the rope goes slack.

DO NOT OVER RUN THE ROPE ON THE DRUM.

- Once you are in the right fishing position there is no need to tie off the rope.
- To raise the anchor start the engine and slowly move forward at the same time as pushing the up switch.
- Once you see the anchor - inch the switch to bring the anchor up.

DO NOT JAM THE ANCHOR INTO THE BOW SPRIT.

- If you jam the anchor in the bow sprit go to the front of your boat, put some pressure on the chain place both hands on the line of pull and press down to release some tension. This will release the gearbox and allow you to let the anchor down again.
- When traveling turn your Circuit Breaker off to avoid activating your winch

Drum Capacity for All Models

EDM400W-010 / EDM400W-010S / EDM400W-010F

- 60 meters of 6mm nylon plus 8 meters of 5/6mm short link chain

EDM600W-011 / EDM600W-011S / EDM600W / 011F

- 100 meters of 8mm nylon plus 8 meters of 5/6mm short link chain

EDM1000W / EDM1000W-012S / EDM1000W-012F

- 130 meters of 8mm nylon plus 8 meters of 6/8mm short link chain

EDM1400W-013S / EDM1400W -013F

- 100 meters of 10mm nylon plus 8 meters of 8/10mm short link chain

EDM1600W-014 / EDM1600W-014S / EDM1600W-014F

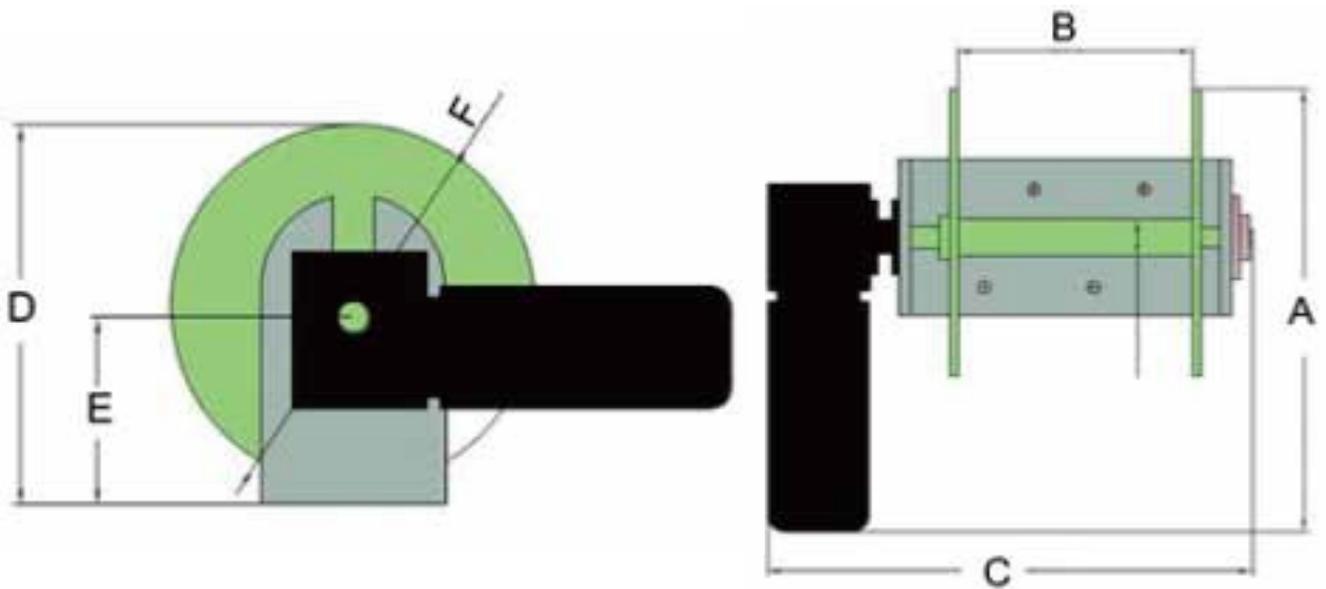
- 120 meters of 12mm nylon plus 8 meters of 8/10mm short link chain

EDM2500W-015 / EDM2500W-015S / EDM2500W-015F

- 200 meters of 14mm nylon plus 8 meters of 10/12mm short link chain

Drum Winch Specifications EDM

| Model | Weight | Power Supply | Motor (Watts) | No load absorption | Max. Load | Max. Pull | Line Speed | Rope Size | Chain Size |
|--------------|--------|--------------|---------------|--------------------|-----------|-----------|------------|-----------|------------|
| EDM400W-010 | 9kg | 12V/24V | 400W | 30A | 120kg | 320kg | 30m/min | 6mm | 5-6mm |
| EDM600W-011 | 16kg | 12V / 24V | 600W | 50A | 190kg | 600kg | 30m/min | 6-8mm | 5-6mm |
| EDM1000W-012 | 20kg | 12V / 24V | 1000W | 90A | 350kg | 750kg | 25m/min | 8-10mm | 6-8mm |
| EDM1400W-013 | 30kg | 12V / 24V | 1400W | 120A | 480kg | 900kg | 20m/min | 10-14mm | 8-10mm |
| EDM1600W-014 | 43kg | 12V / 24V | 1600W | 135A | 680kg | 1200kg | 20m/min | 10-14mm | 8-10mm |
| EDM2500W-015 | 115kg | 24V/48V | 2500W | 105A | 980kg | 1800kg | 20m/min | 24-30mm | 10-13mm |



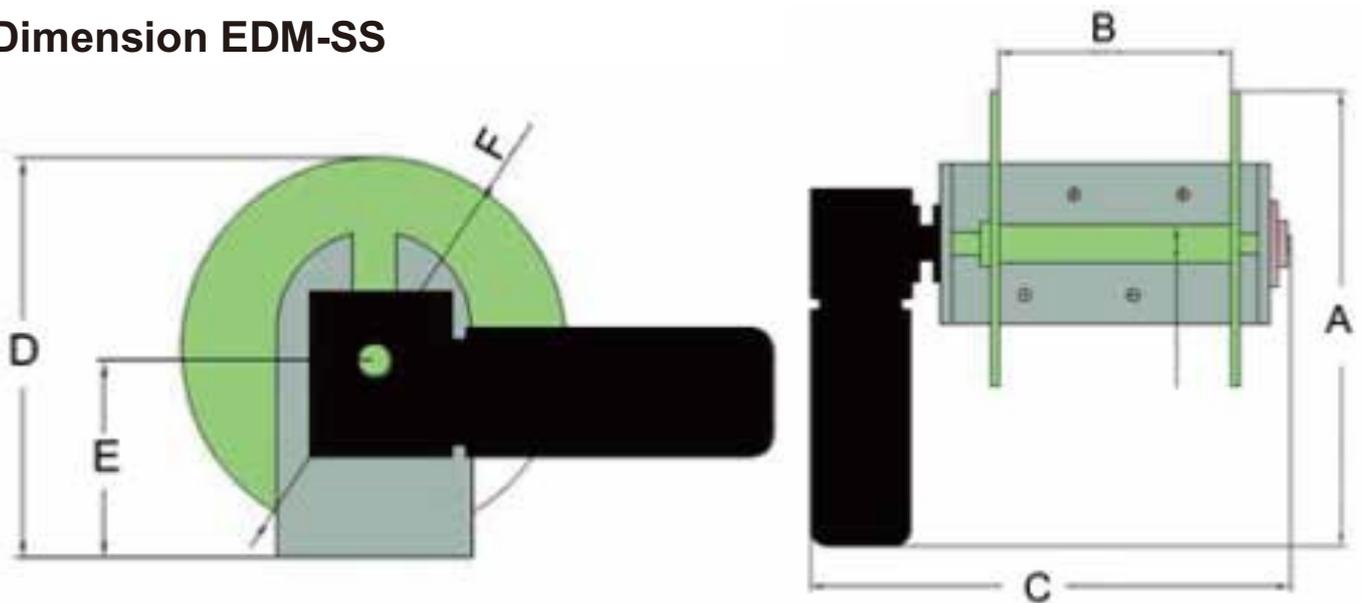
Drum Winch Specifications EDM

| Model | Motor(W) | A | B | C | D | E | F |
|--------------|----------|-----|-----|-----|-----|-----|-----|
| EDM400W-010 | 400W | 300 | 175 | 350 | 200 | 110 | 185 |
| EDM600W-011 | 600W | 335 | 206 | 375 | 265 | 140 | 245 |
| EDM1000W-012 | 1000W | 410 | 208 | 393 | 310 | 165 | 290 |
| EDM1400W-013 | 1400W | 450 | 248 | 423 | 350 | 180 | 340 |
| EDM1400W-014 | 1600W | 520 | 260 | 500 | 420 | 215 | 400 |
| EDM2500W-015 | 2500W | 705 | 433 | 722 | 570 | 295 | 550 |

Winch Specifications EDM-SS

| Model | Weight | Power Supply | Motor (Watts) | No load absorption | Max. Load | Max. Pull | Line Speed | Rope Size | Chain Size |
|----------------|--------|--------------|---------------|--------------------|-----------|-----------|------------|-----------|------------|
| EDM400W-010SS | 12kg | 12V/24V | 400W | 30A | 120kg | 320kg | 30m/min | 6mm | 5-6mm |
| EDM600W-011SS | 17.5kg | 12V / 24V | 600W | 50A | 190kg | 600kg | 30m/min | 6-8mm | 5-6mm |
| EDM1000W-012SS | 22kg | 12V / 24V | 1000W | 90A | 350kg | 750kg | 25m/min | 8-10mm | 6-8mm |
| EDM1400W-013SS | 35kg | 12V / 24V | 1400W | 120A | 480kg | 900kg | 20m/min | 10-14mm | 8-10mm |
| EDM1600W-014SS | 44 kg | 12V / 24V | 1600W | 135A | 680kg | 1200kg | 20m/min | 10-14mm | 8-10mm |
| EDM2500W-015SS | 119kg | 24V/48V | 2500W | 105A | 980kg | 1800kg | 20m/min | 24-30mm | 10-13mm |

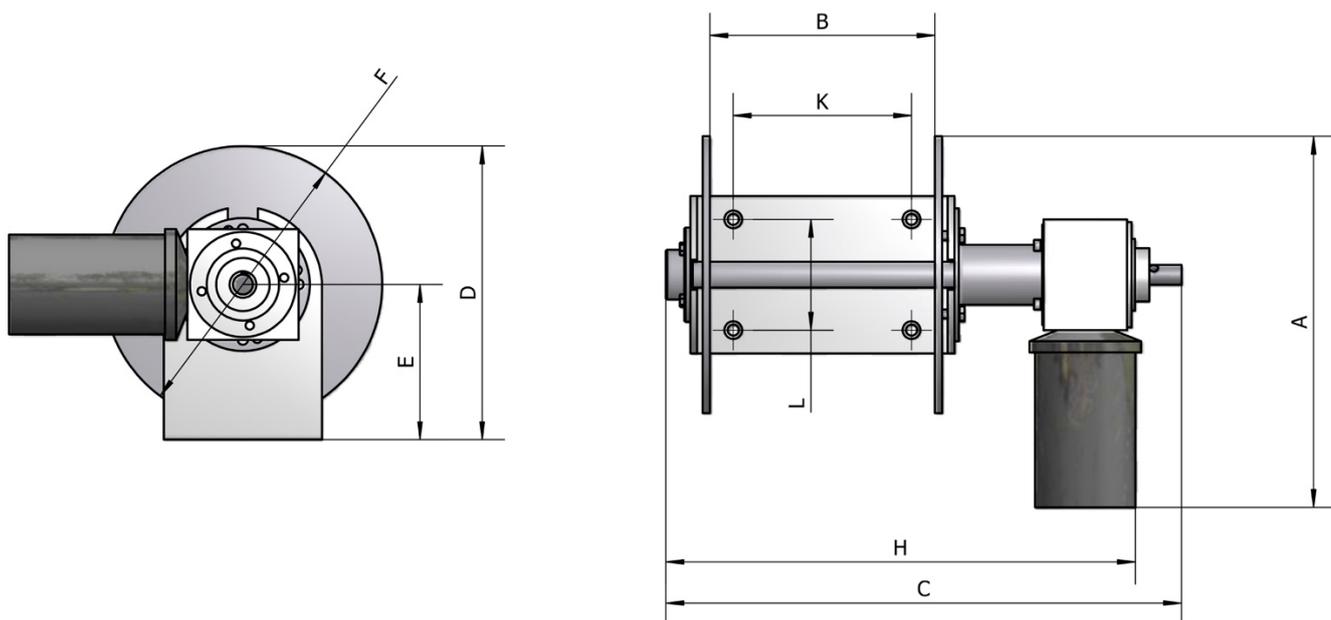
Dimension EDM-SS



| Model | Motor(W) | A | B | C | D | E | F |
|----------------|----------|-----|-----|-----|-----|-----|-----|
| EDM400W-010SS | 400W | 320 | 175 | 350 | 200 | 110 | 185 |
| EDM600W-011SS | 600W | 370 | 206 | 376 | 265 | 140 | 245 |
| EDM1000W-012SS | 1000W | 420 | 208 | 395 | 310 | 165 | 290 |
| EDM1400W-013SS | 1400W | 480 | 248 | 450 | 350 | 180 | 340 |
| EDM1600W-014SS | 1600W | 535 | 260 | 520 | 420 | 215 | 400 |
| EDM2500-015SS | 2500W | 740 | 433 | 723 | 570 | 295 | 550 |

Winch Specifications EDM-F

| Model | Weight | Power Supply | Motor (Watts) | No load absorption | Max. Load | Max. Pull | Line Speed | Rope Size | Chain Size |
|---------------|--------|--------------|---------------|--------------------|-----------|-----------|------------|-----------|------------|
| EMD400W-010F | 12kg | 12V/24V | 400W | 30A | 120kg | 320kg | 30m/min | 6mm | 5-6mm |
| EMD600W-011F | 17kg | 12V / 24V | 600W | 50A | 190kg | 600kg | 30m/min | 6-8mm | 5-6mm |
| EMD1000W-012F | 25kg | 12V / 24V | 1000W | 90A | 350kg | 750kg | 25m/min | 8-10mm | 6-8mm |
| EMD1400W-013F | 35.5kg | 12V / 24V | 1400W | 120A | 480kg | 900kg | 20m/min | 10-14mm | 8-10mm |
| EMD1600W-014F | 46kg | 12V / 24V | 1600W | 135A | 680kg | 1200kg | 20m/min | 10-14mm | 8-10mm |



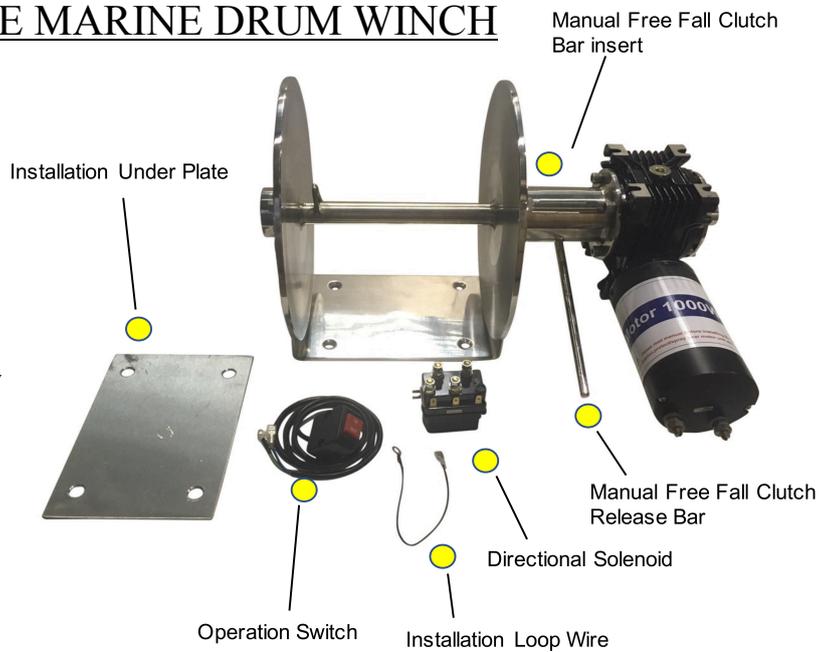
Dimension EDM-F

| Model | Motor(W) | A | B | C | D | E | F | H |
|----------------|----------|-----|-----|-----|-----|-----|-----|-----|
| EDM400W-010F | 400W | 300 | 175 | 440 | 220 | 120 | 200 | 390 |
| EDM600W-011F | 600W | 335 | 202 | 463 | 265 | 140 | 250 | 422 |
| EDM1000 W-012F | 1000W | 410 | 205 | 495 | 310 | 165 | 290 | 450 |
| EDM1400W-013F | 1400W | 435 | 234 | 580 | 350 | 180 | 345 | 500 |
| EDM1600W-014F | 1600W | 465 | 260 | 760 | 420 | 215 | 400 | 510 |

ENDURANCE MARINE DRUM WINCH

Operating Instruction

Free Fall Series- EDM- FF MODELS ONLY



You have purchased a Free Fall Series Drum winch. When the free fall mode is active the anchor will ascend by gravity.

This winch incorporates a spring loaded manual clutch mechanism that when activated allows the drum spool to rotate and the anchor will free fall. To operate insert the clutch handle (found in a holder between the drum and gear box) in the hole at the end the gear box drum shaft. IMAGE (1) BELOW

Turn the handle 90 degrees which will pull the drum shaft back 1/2 inch releasing the spring loaded shaft which will cause the drum to free fall. IMAGE (2) BELOW

Once the drum stops moving and is no longer free falling turn the clutch handle Back 90 degrees which re-connects the drum to the gear box. The winch is now in power mode to move up or down.

NOTE: Do not engage the gear box when the winch is still free falling. This will cause severe damage to the gears and voids warranty

NOTE: When running this winch either in the gravity free fall or raising it up extreme caution must be taken. Severe injury may occur. Hands, feet ,or any objects must be kept clear of the winch

IMAGE (1)



IMAGE (2)



Trouble Shooting Guide

Spooling of the rope and chain:

◆ **If there is a buildup on one side of the drum**

The winch has been installed off centre. This means the centre of the drum has not been lined up on the centre lines between the bow sprit and the centre of the anchor well or the winch installation is not square to the bow sprit.

◆ **On retrieval of the anchor**

If the rope and/or chain jams on the baseplate of the winch you have over-spooled the recommended capacity of rope and chain onto the drum.

◆ **If your anchor fails to fall**

When the down switch is activated, check that there is a natural force of gravity when the anchor is up and located in the bow sprit to displace the weight of the anchor over the front of the boat.

◆ **If you over-run the rope and the rope spills over the side of the drum**

Have a second person apply tension on the rope whilst you inch the winch in reverse. Continue this process until all of the rope is spooled back onto the drum.

◆ **If the actuator malfunctions**

Check and/or replace the 5 amp fuse in the fuse holder located at the back of the switch panel.

Electrical operation of the winch

◆ If the operation of the winch slows down – check that the batteries are charged or connect to a second battery. If your boat is fitted with dual batteries, have the battery switch on BOTH.

◆ If the drum spools only in one direction check the connections to the solenoid, motor, circuit breaker and battery.

◆ If your winch fails to operate check that the circuit breaker is switched on.

◆ If the anchor is stuck on the bottom and you hold your finger on the up switch, the circuit breaker will trip out. If this occurs, re-set the circuit breaker, drive your boat forward and retrieve the anchor.

ENDURANCE MARINE DRUM WINCH

Warranty

Endurance Marine warrants its product in normal usage to be free of defects in materials and workmanship for a period of five year from date of purchase by the original purchaser, subject to the conditions, limitations and exceptions listed below. Any part, which proves to be defective in normal usage during that five year period, will be repaired or at Endurance Marine option, replaced by Endurance Marine

Conditions & limitations

1. Endurance Marine liability shall be limited to repair or replacement of the goods or parts in materials or workmanship.
2. Determination of the suitability of the material for the use contemplated by the buyer is the sole responsibility of the buyer and Endurance Marine have no responsibility in connection with such suitability.
3. Endurance Marine shall not be liable in any way for:
 - 1) Failures, loss or damage due to use of products in applications for which they are not intended
 - 2) Failures, loss or damage due to corrosion, ultra violet Degradation, wear and tear or improper installation.
 - 3) Failures, loss or damage due to incorrect maintenance.
 - 4) Failures, loss or damage due to conditions that exceed the product's performance specifications, and water damage.
 - 5) Products subject to warranty claim must be returned to Endurance Marine or examination unless otherwise agreed by Endurance Marine in writing
 - 6) Endurance Marine shall not be responsible for shipping charges nor installation labor associated with and warranty claim

Buyers intending to use them for any other purpose should seek advice from Endurance Marine, and Endurance Marine shall be under no liability arising from use which Endurance Marine has not approved.

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2

3

4

A

A

B

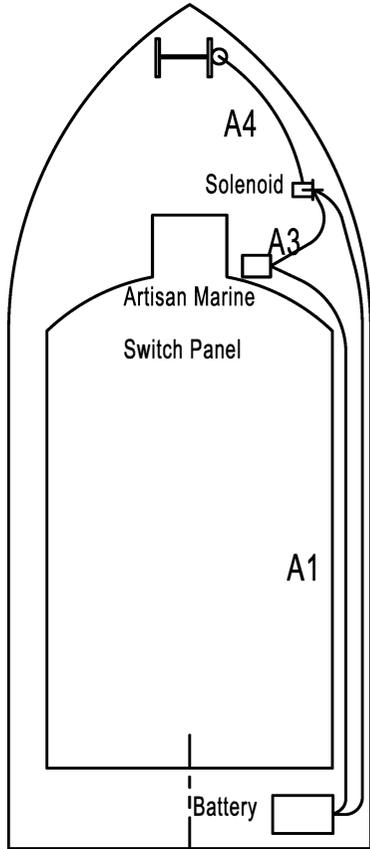
B

C

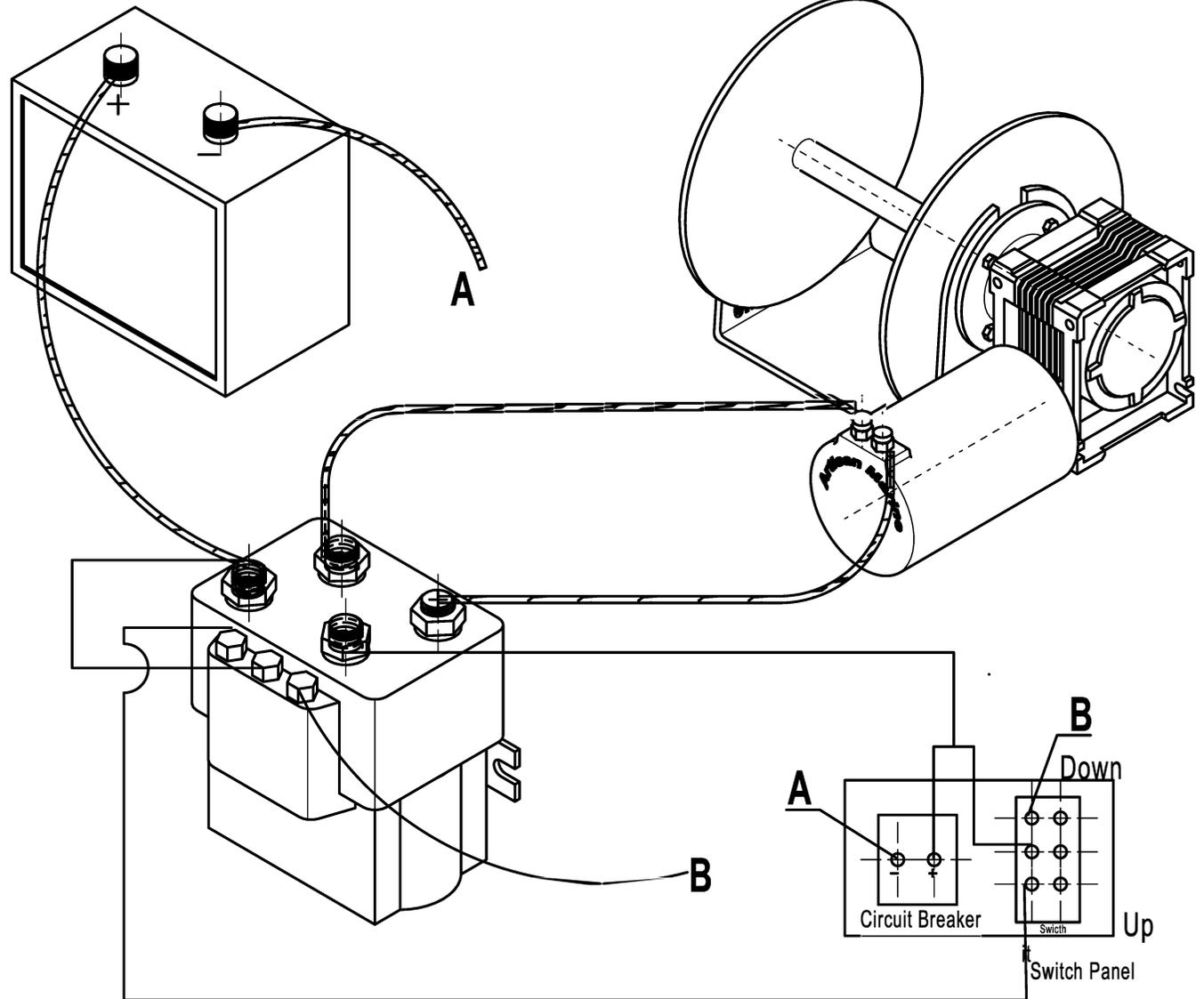
C

D

D



- A1-Battery To Switch Panel
- A2-Battery To Solenoid
- A3-Switch Panel To Solenoid
- A4-Solenoid To Winch Motor



Note: If Up and Down is Running Opposite, Switch the Up and Down wires on the Switch Panel

ENDURANCE MARINE Drum Winch Wiring Diagram



1

2

3

A4

