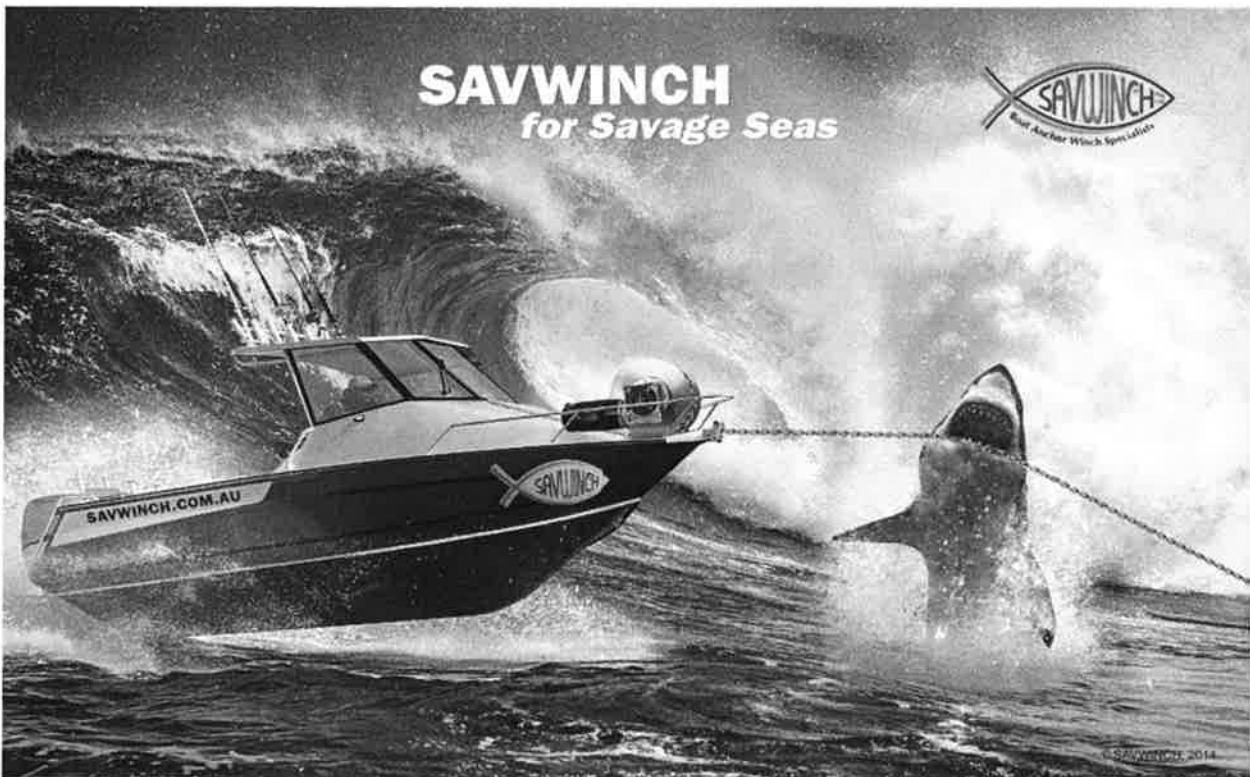




Warranty, Installation & User Manual for Savwinch electric boat anchor winches (AND EFF Electronic Fast Falling Systems)



Savwinch thank you for purchasing our Australian manufactured products and supporting local business. Savwinch prides itself on having excellent customer service including when dealing with warranties. We will endeavour to meet and exceed our customers' needs in relation to warranty claims and any other concerns regarding the use of their Savwinch Product/s. Our wish is that you get many years of effective and enjoyable use of your Savwinch and that your experience with our Savwinch Company is a positive one.



Thank you for your purchase of your new Savwinch product/s. At Savwinch we place high value on the safety and quality of our products. In order for you to be satisfied with, adhere to warranty conditions and get the best out of your purchase, read and follow the instructions in this manual.

A 5 year warranty for recreational users will apply if the following instructions are adhered to:

Tips for Installation

1. Both exposed wires from Savwinch Motor must be connected via Joiners/solder and then heat shrink, including internal silicon to wires to eliminate any corrosion or water entering wires when attaching power cables to other attachments.
2. The 316 stainless drum must be in line and centred to the Guide roller or hawse pipe and Bowe sprit in order to ensure an even spread of the rope and chain to the drum.
3. Gearbox output flange to drum bracket can rotate in eight different mounting positions for your motor and gearbox components. This will allow you to position motor/gearbox at the most convenient configuration required.
4. Bearing and bearing hub; if sealed bearing needs to be replaced just un- bolt four screws to hub and replace bearing, you can purchase identical bearing at any bearing retailer.
5. All switchgear must be lubricated 3 to 4 times at regular intervals per year to avoid corrosion.

6. IMPORTANT: Must lubricate Motor and Gearbox 3 to 4 times a year at regular intervals, 'Fleet Grease' is preferred but Lanolin, Innox or other lubricants are also acceptable.

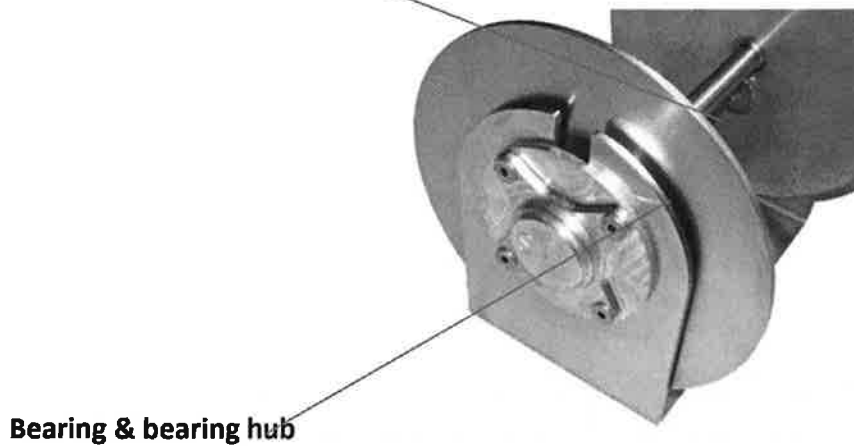
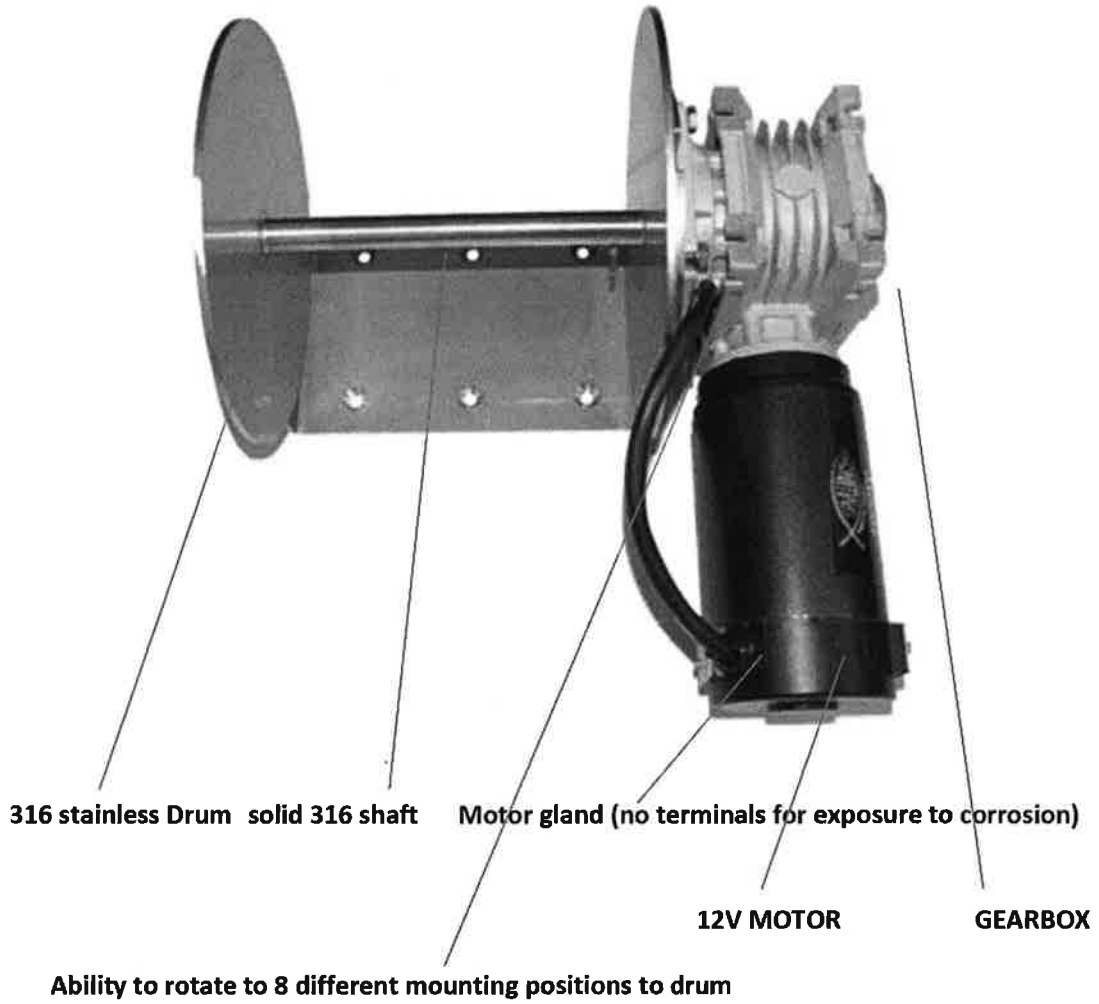
Winch Model & Cable Size

Recommended wire for Savwinch models must **begin from motor wires** to battery

IMPORTANT NOTE: The following cable sizes must be used.

- i. 550W -> 6 B&S (13.6mm²) Cable
- ii. 1000W+ 1500W -> 4 B&S (20.2mm²) Cable
- iii. 2000w + 3000w -> 3B&S (25.73mm²) Cable

Figure 1 & 2 – Sawwinch Unit Overview



IMPORTANT: Must spray motor gearbox & switchgear 3-5 times a year with lanolin/ fleet grease or Innox, to adhere to conditions of warranty.

Fig 3: Standard UP/DOWN Winching Wiring Diagram & Switch Gear



SW-200 UP/DOWN SWITCH

SPECIFICATION:

Load Capacity: 200A / 500A(10S)

Suit Voltage: 12V ~ 48V DC

Contact Material: AgCdO

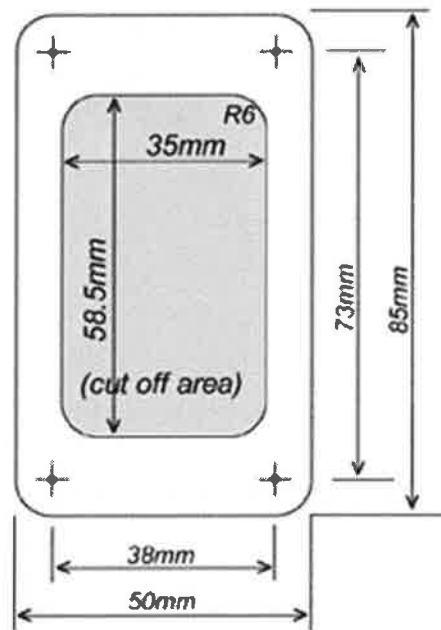
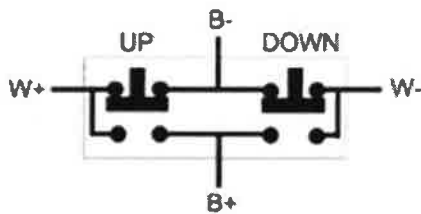
Contact Resistance: Max. 20mΩ initial

Insulation Resistance: Min. 100mΩ at 500V DC

Terminal Size: 6 mm

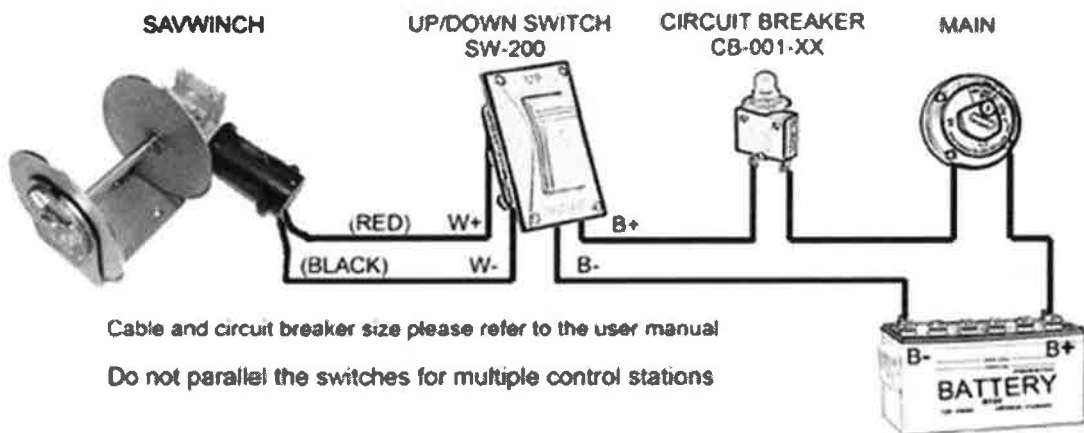
Dimension: 85 x 50 x 45 mm

Weight: 150 g



SW-200 TEMPLATE

CONNECTION DIAGRAM



Cable and circuit breaker size please refer to the user manual

Do not parallel the switches for multiple control stations



User Manual for SAV-EFF-2S

Fast Fall Two Speed



1. Installation Instructions

- 1.1 Install the SAV-EFF-2S in a well-protected area, using the mounting tabs attached to the box.
- 1.2 Mount the rocker switch panel (see Fig.4 – Pg7) to the dash.
- 1.3 Connect motor/winch cables to the motor terminals.
- 1.4 Connect the negative from the battery to the black battery terminal on SAV-EFF-2S.
- 1.5 **Critical Step:** Connect the positive cable from the battery /circuit breaker to the red terminal side labelled 'battery' on the SAV-EFF-2S unit. IMPORTANT: Failure to connect the terminals in this way will result in damage to internal components and void any warranties. If unsure do not connect! Contact your nearest service agent/dealer.
- 1.6 The black 2mtr cable is to be connected to the rocker switch panel.
 - i. Blue-> DOWN
 - ii. Brown-> UP
 - iii. Green & yellow-> NEU (neutral)
- 1.7 Once installation has been completed, it is important to test the direction of the drum rotation. Interchange the position of the cables connected to the **motor** terminals on the SAV-EFF-2S to reverse direction if needed.
- 1.8 Your rocker switch panel (on the dash) should now operate correctly for anchor down and up operation, **down being faster.**

2. Anchor down with SAV-EFF-2S

The SAV-EFF-2S is a direct two speed unit. It releases the anchor as soon as the down rocker switch has been pressed. There will be no delay as long as you hold the switch, the anchor will drop at fast fall speed to the bottom. Always insure correct operation and observe the chain and rope.

3. Winch Model & Cable Size

The following cables listed below must be used for battery to winch motor connections. Only the recommended size cables listed below are to be used from motor wires to battery.

IMPORTANT: The following cable sizes must be used.

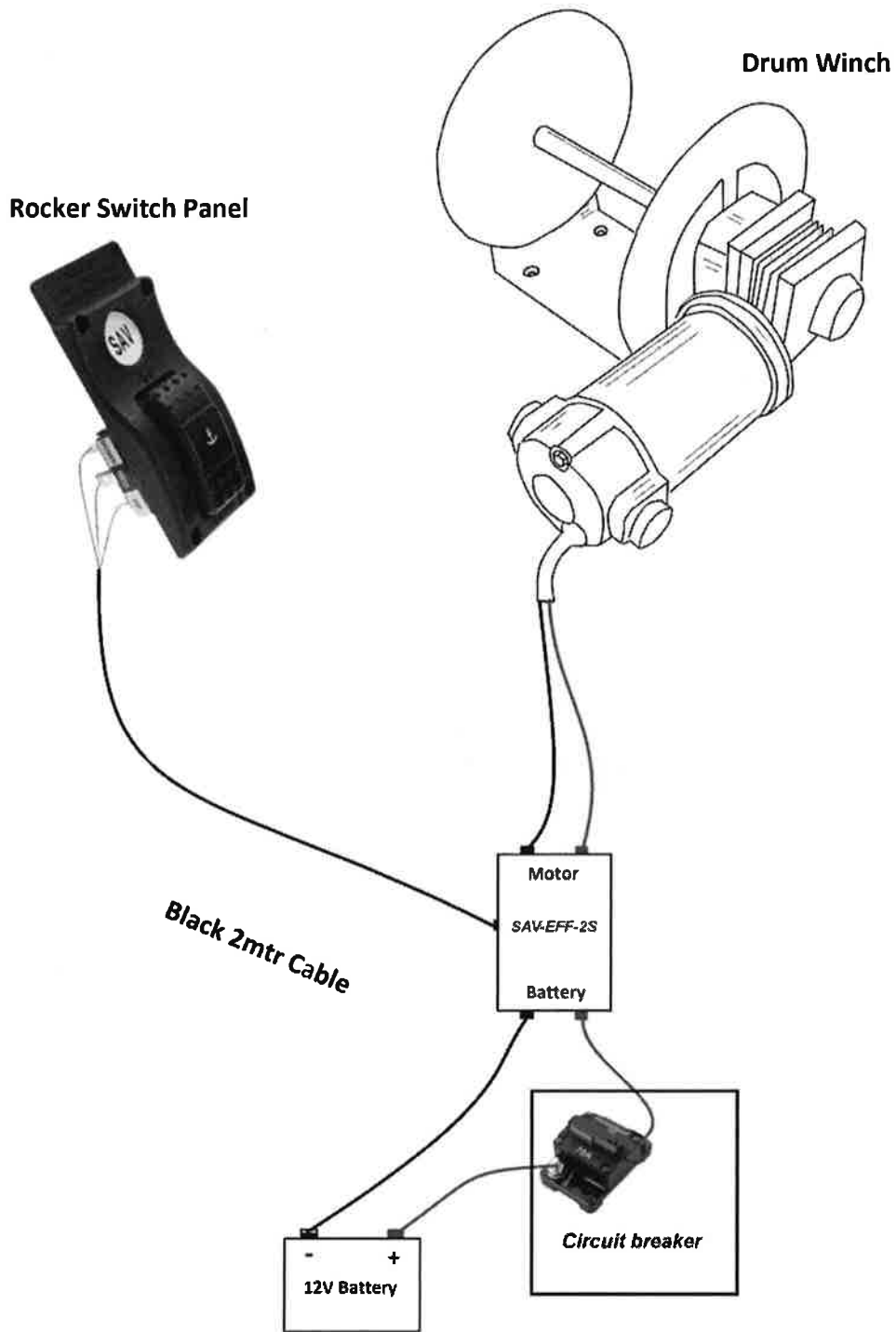
- iv. 550W -> 6 B&S (13.6mm²) Cable
- v. 1000W+ 1500W -> 4 B&S (20.2mm²) Cable
- vi. 2000W + 3000W -> 3B&S (25.73mm²) Cable

4. Operating Instructions

- 4.1 To drop the anchor you must go past your mark and put the boat in reverse and idle back.
- 4.2 When you are ready press down on the rocker switch panel to release the anchor. **Observe the operation and ensure there is tension on the rope. Be sure not to overrun the rope on the drum.**
- 4.3 Once the rope becomes loose/slack stop the downwards operation. If at this point more rope is required to be released; jog/inch the down on the rocker switch panel until the slack rope becomes tight again.
- 4.4 When satisfied with the position and the amount of rope released switch off the engine.
- 4.5 To retrieve the anchor, start your engine and idle forward whilst pushing the up on the rocker switch panel.
- 4.6 Observe the operation and be ready to stop as the anchor reaches the top bow roller. At this point jog/inch into lock position on the bow roller.

IMPORTANT: Always have a spare rope and anchor in case of a power failure or winch failure in order to deploy the anchor.

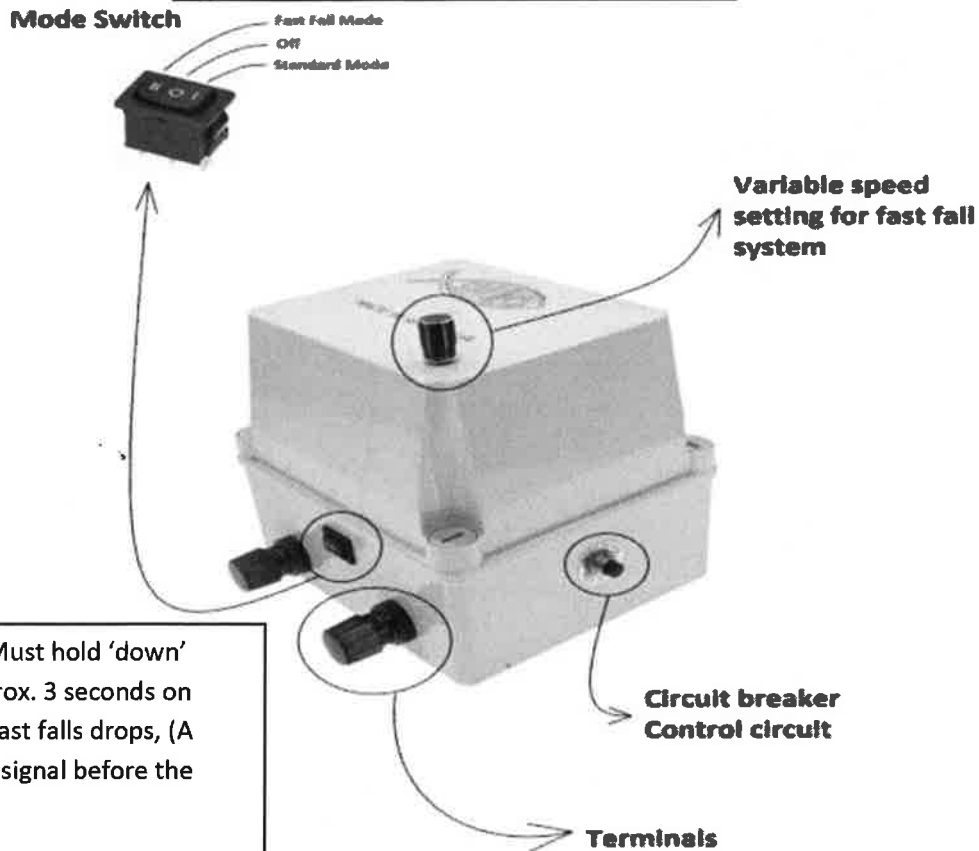
**Figure 4 - Wiring Diagram for all EFF electronic fast falling systems
(Both EFF- variable speed & EFF-2S)**





User Manual for SAV-EFF Variable Electronic Fast Fall

Figure 5 – SAV EFF Unit Overview



5. Installation Instructions

5.1 Install the SAV-EFF under the dashboard in a well-protected area, using the mounting tabs attached to the box.

5.2 Mount the rocker switch panel (see Fig.5– Pg8) to the dash.

Note: As the SAV-EFF has built in circuit protection, external circuit breakers are not essential, but recommended. (see Fig.5 – Pg8)

5.3 Install the cable lug with a lock nut , do not over tighten lock nut

5.4 Critical Step: Connect the positive cable from the battery to the red terminal side labelled 'battery' on the SAV-EFF unit. Failure to connect the terminals in this way will result in damage to internal components and void any warranties. If unsure do not connect! Contact your nearest service agent/dealer.

5.5 Connect the negative from the battery to the black battery terminal on SAV-EFF.

5.6 Connect motor/winch cables to the motor terminals on opposite side.

5.7 The black 2mtr cable is to be connected to the rocker switch panel. (see Fig.5 –Pg8)

5.7.1 Blue-> DOWN

5.7.2 Brown-> UP

5.7.3 Green & yellow-> NEU (neutral)

5.8 Set mode switch to standard. (see Fig.5 – Pg8)

5.9 Once installation has been completed, it is important to test the direction of the drum rotation. Interchange the position of the cables connected to the motor terminals on the SAV-EFF to reverse direction.

5.10 Your rocker switch panel (on the dash) should now operate correctly for anchor down and up operation in standard mode.

5.11 Must hold 'down' button for approx. 3 seconds before fast fall drops (a siren will precede the winch dropping).

Very Important: Fast Falling strike II mode must only be utilised (used) on way down. Going up in this mode will cause damage and void warranty.

6. Fast Fall Mode

6.1 Due to differences in anchor types & weights, fast fall setup should be done on the water to observe the operation and adjustments made to suit.

6.2 Turn the dial for variable speed setting clock-wise to the maximum setting and change the mode switch to the fast fall position.

6.3 Operated down and observe the rate of the chain and rope as it leaves the boat, ensure that the drum does not run faster than the rope and over spool.

6.4 If the drum is running too fast for the chain/rope to exit adjust the variable speed setting anti-clock wise to suit.

7. Frequently Asked Questions

- **What if the unit stops working during anchor retrieval?**

Answer: Circuit breaker could have been overloaded so re set and check why it has overloaded you must insure the rope is free and in the right position (not wedged between roller or bow sprit). Another possibility is that the anchor may be stuck on the bottom.

- **What should I do if the EFF stops working during anchor fast fall?**

Answer: If the EFF stops working during fast fall operation, change to standard mode strike I and continue to operate . Contact your nearest service agent/dealer for further assistance.

Warranty

This section outlines the terms and conditions of the warranty offered by Savwinch Pty Ltd.

Savwinch Pty Ltd offers a 5 year warranty on its Savwinch boat winches and fast fall systems for recreational vessel usage and a 1 year warranty for commercial and charter vessel usage. We value customer service and satisfaction and will make every attempt to deal with each warranty claim fairly and respectfully.

The warranty agreement you enter into when you make a Savwinch purchase is subject to the following conditions and limitations:

- The 5 year warranty period comes into effect as of the date of invoice generation/written agreement is made;
- Savwinch manufactured products are warranted to be free from defects in materials and workmanship;
- If your Savwinch product is suspected of being defective in materials or workmanship you must cease using it and contact Savwinch to report the fault within 7 days of noticing the defect;
- The warranty will include either repair or replacement of the faulty part/s, material or workmanship;
- The purchaser is responsible for any charges associated with removal, returning the faulty goods to Savwinch for warranty claim and reinstallation;
- Any damage sustained to any vessel, property or equipment or persons due to the installation or use of a Savwinch product, as far as is permitted by consumer law, is excluded from this warranty;
- No representative or agent of Savwinch has the authority to make any decisions or agreements regarding warranty with you without the prior agreement with Savwinch Pty Ltd directly;

This warranty shall be limited or null and void if any of the following occur:

- The improper installation of a Savwinch, including not adhering to the installation guidelines contained within this manual;
- The improper and irregular maintenance, repair or service of your Savwinch product;
- The improper use or incorrect application of your Savwinch product;
- Water Corrosion neglect by EG High pressure spraying or Submerging motor or not spraying lubricant as instructed
- Improper modification/s made to the Savwinch;

The warranty does not cover any loss, damage, harm or claim associated with or as a result of an accident or natural disaster.

END OF DOCUMENT - If you are unsure about anything contained in this document please contact Savwinch for clarification. Thank you again and Happy Boating!