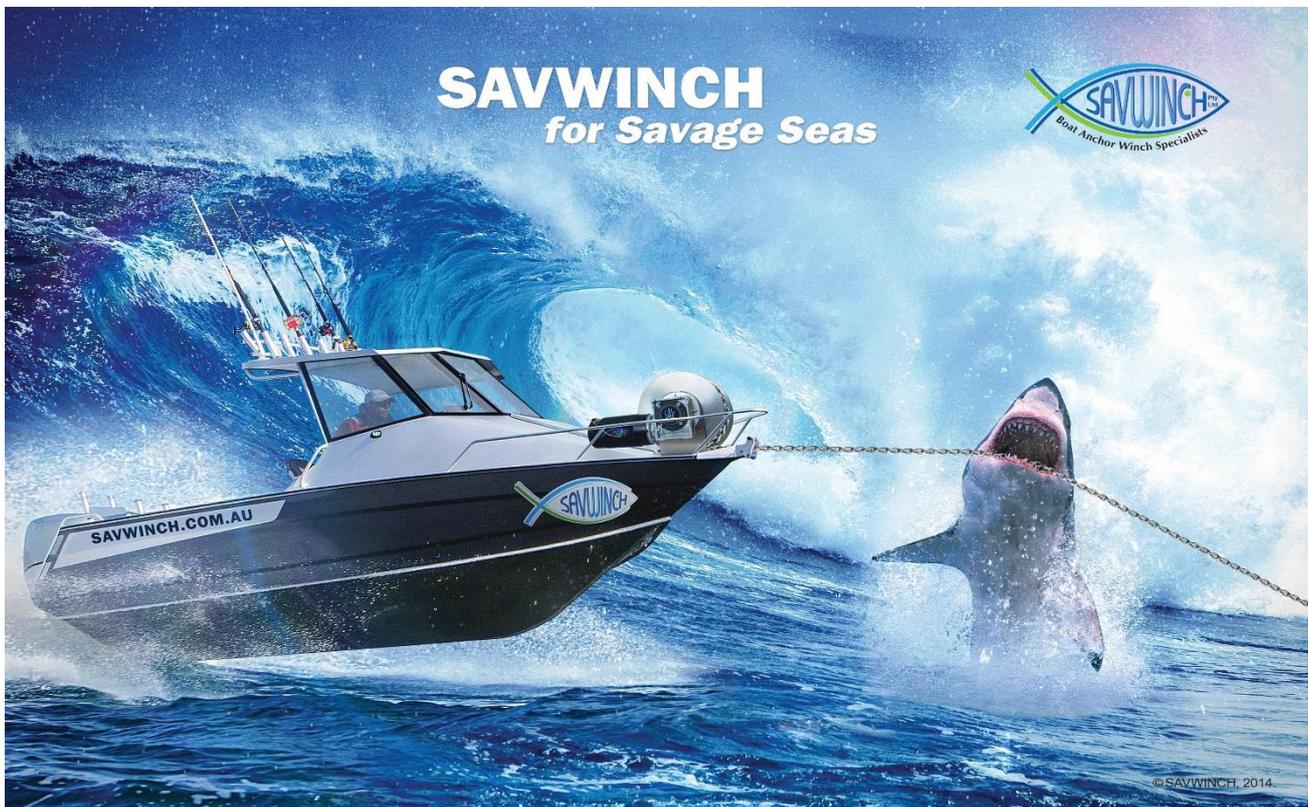




## Warranty, Installation & User Manual for Savwinch electric boat anchor winches (AND EFF Electronic Fast Falling Systems)



*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 (thicker wire, see bottom of page for wiring size) 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

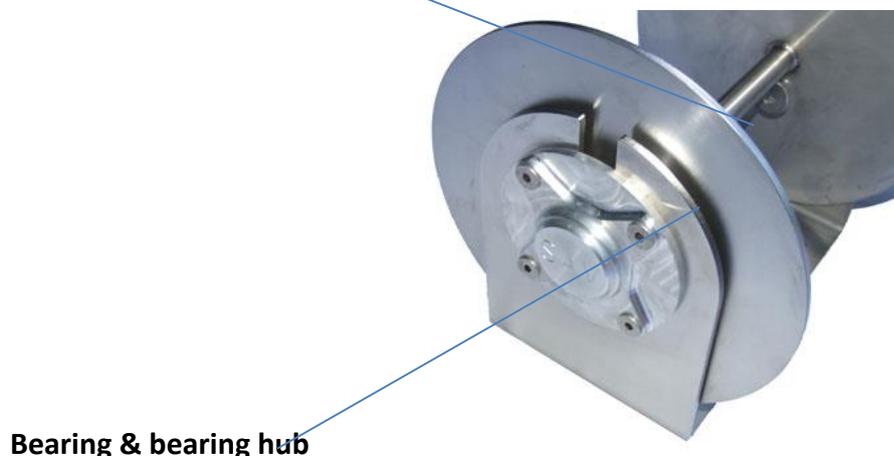
**IMPORTANT NOTE: The following cable sizes must be used.**

- 1 550W -> 6 B&S (13.6mm<sup>2</sup>) Cable
- 2 1000W+ 1500W -> 4 B&S (20.2mm<sup>2</sup>) Cable
- 3 2000w + 3000w -> 3B&S (25.73mm<sup>2</sup>) Cable

**Figure 1 & 2 – Savwinch Unit Overview**



**No gaps for rope to fall into gearbox**



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

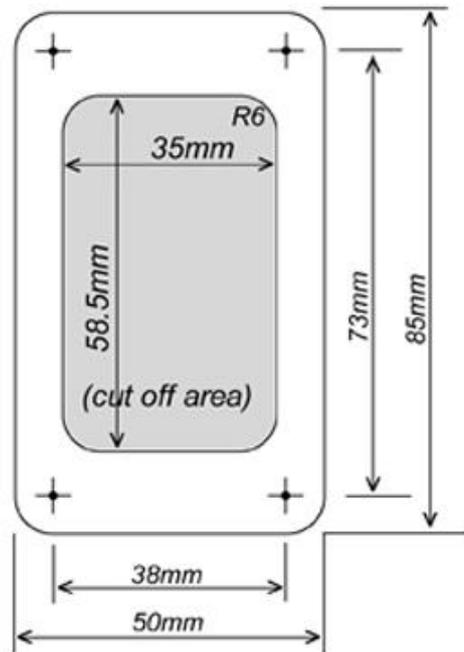
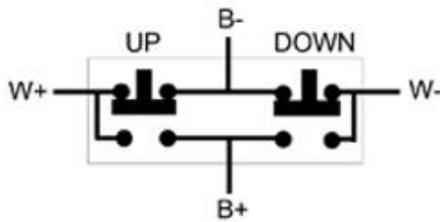
**Fig 3: Standard UP/DOWN Winching Wiring Diagram & Switch Gear**



**SW-200 UP/DOWN SWITCH**

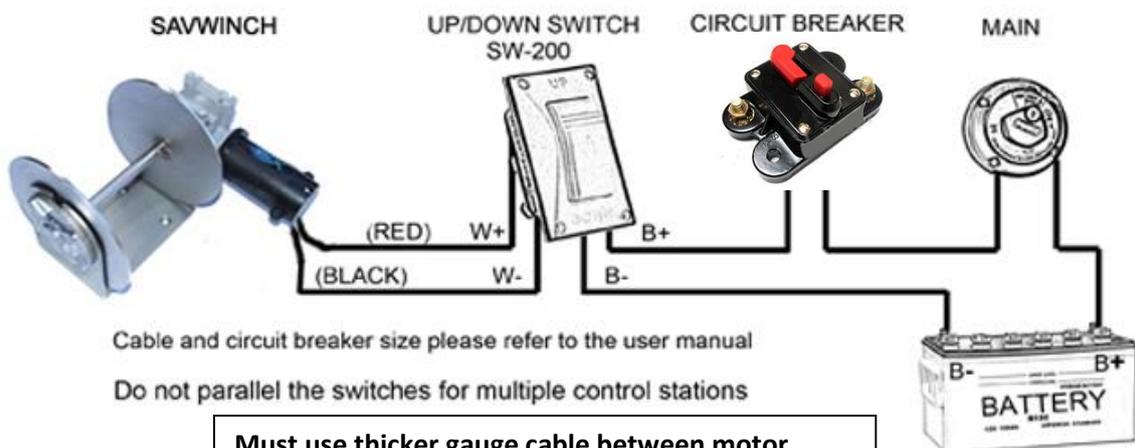
**SPECIFICATION:**

- 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

**Must use thicker gauge cable between motor wires to Switch, Circuit Breaker and Battery. Refer to page 2 for wire sizing**



# 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. MUST DO**

**EFF2S must drop down fast.**

**After install, check anchor drops fast and comes up at normal speed or this will void warranty.**

### **3. 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. Rope tangles can occur on barrel.

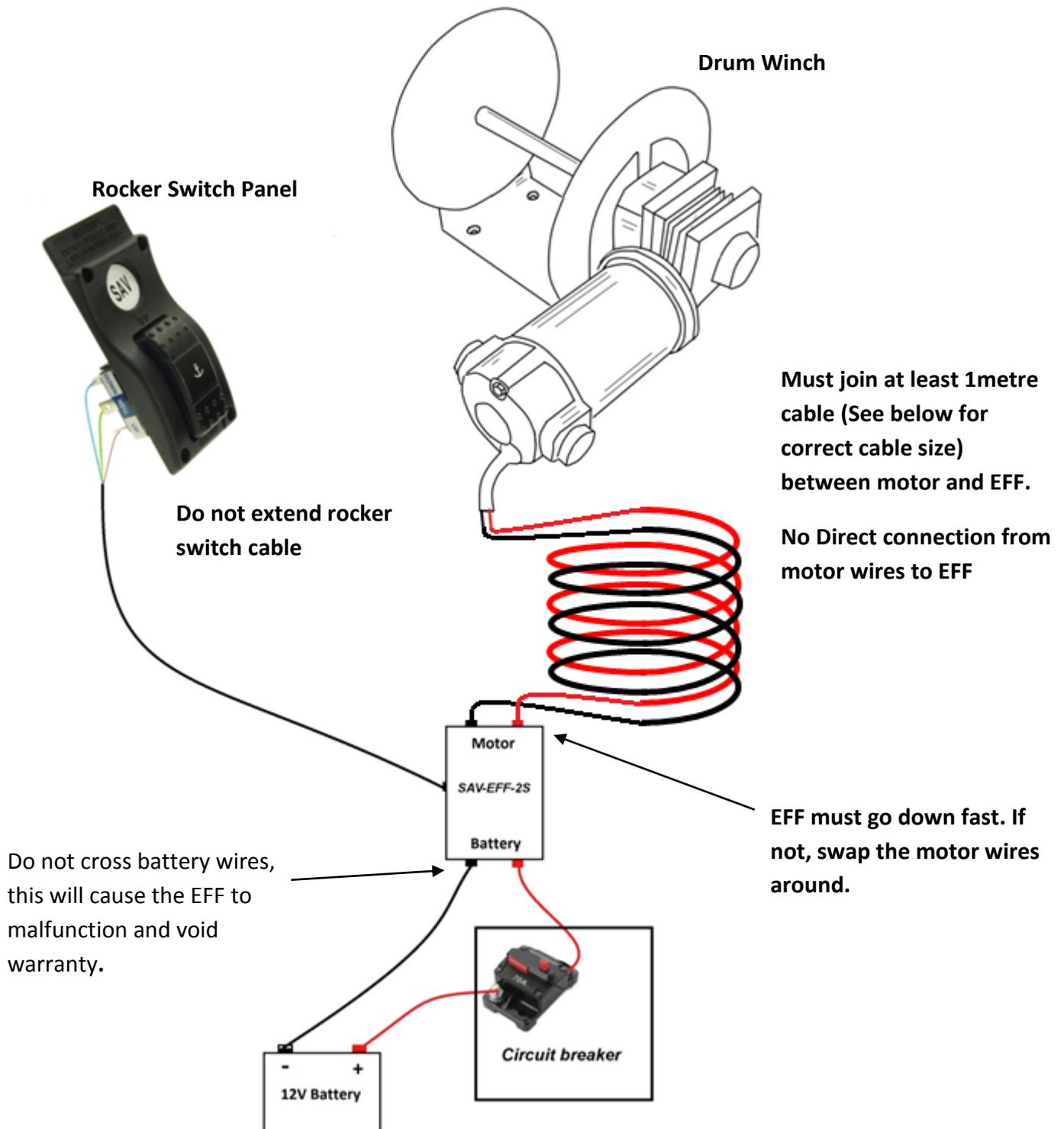
Always ensure correct operation and observe the chain and rope are falling fast and retrieving at normal speed.

### **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.
- 4.7 Rope tangles can occur on barrel, where the direction changes. Note: must untangle where EFF is not going down fast. If unit is coming up fast, this may void warranty.**

**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)**



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 (13.6mm<sup>2</sup>) Cable
- ii. 1000W+ 1500W -> 4 B&S (20.2mm<sup>2</sup>) Cable
- iii. 2000w + 3000w -> 3B&S (25.73mm<sup>2</sup>) Cable

## 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!*