

# SV-PLUS ZERO

Sensored Brushless Competition ESC with Integrated RX-472 2.4GHz FH4T Super Response SSL Receiver



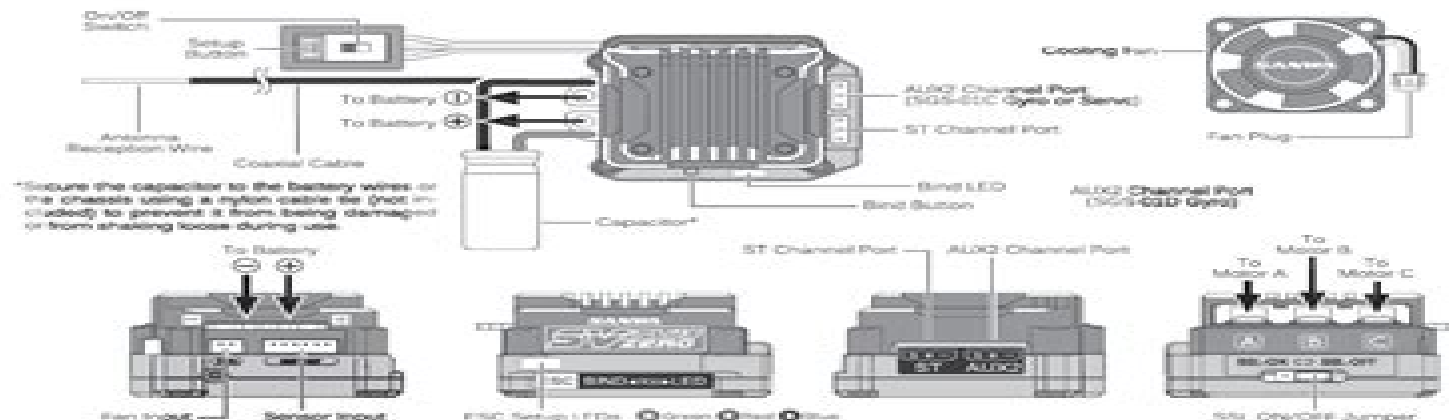
**SANWA**



## OVERVIEW, CONNECTIONS AND MOUNTING

### Soldering the Battery and Motor Wires:

- 1) Solder the battery and motor wires to the ESC, as shown in the diagrams below. Use a high-quality battery connector (Dean's Ultra-Plug or similar), and use the color-coded heat-shrink tubing provided to indicate correct polarity. We recommend soldering the motor wires directly to the ESC. If you decide to use connectors between the ESC and the motor, use high-quality gold-plated 4mm bullet connectors or similar.
- When soldering your battery connector and battery wires to the ESC, observe correct polarity - positive to positive and negative to negative. When soldering the motor wires to the ESC and your motor, make sure that the wiring matches (A, B and C from the ESC to A, B and C on your motor). Since this is a sensored ESC, these must match. For optimum performance, the motor wires (A, B and C) should all be equal length. Wiring the ESC incorrectly can result in damage to the ESC and/or your motor.
- Do not leave the soldering iron on the mounting posts for any longer than is necessary to melt the solder. If the mounting posts overheat, it can damage the ESC. A suitably hot soldering should not be left on the mounting posts longer than about 5 seconds. If the solder is not melting within about 5 seconds, use a hotter soldering iron. For best results, pre-tin the ends of the wires.



**IMPORTANT:** A motor cooling fan, lap counter device, LED light set, etc., in addition to a gyro or a servo, can be plugged into the AUX2 channel port using the included Y-harness. In the default configuration, the AUX2 channel is controlled by your transmitter's Auxiliary Lever. If desired, this can be changed in the transmitter's KEY ASSIGN menu.

### Making Receiver Connections and Mounting the Super Vortex-Plus ZERO ESC:

- 1) Plug your steering servo into the ST channel port, making sure to observe correct polarity. If you're using a gyro, such as the Sanwa SGS-01C, plug the gyro into the AUX2 channel port. Make sure to observe correct polarity - Blue (Signal), Red (Positive) and Black (Negative).
- 2) Using two suitable sizes of double-sided foam tape (not included), mount the ESC and the ESC On/Off switch to your model's chassis.
- 3) Securely plug one end of the sensor cable into the Sensor input port on the ESC, then securely plug the other end of the sensor cable into the Sensor input port on your motor. The sensor cable must be installed for proper operation.
- 4) Slide the antenna wire into an antenna tube (not included) and secure the antenna tube in a vertical position. For the best reception, the antenna wire should be mounted vertical and extend outside the top of your model.
  - For maximum efficiency, orientate the ESC so that the cooling fins are parallel to the airflow. Do not wrap the ESC in foam rubber, mount the ESC in a receiver box, or in anyway block airflow to the cooling fins.
  - Install the On/Off switch on the chassis of your model in a location that's convenient to access and that doesn't interfere with any moving parts. In addition, it may be necessary to secure the battery and/or motor wires to your chassis to prevent damage to them. Secure the capacitor to the ESC battery wires or the chassis using a nylon cable tie (not included) to prevent it from being damaged or from shaking loose during use.
  - In most cases, the use of the included cooling fan isn't necessary, but in some cases, such as when there is limited airflow over the ESC or if you're using a higher than normal Timing Advance value, the cooling fan can help prevent the ESC from going into thermal shutdown. When installing it, tighten the M2.6 x 13mm mounting screws (included) evenly to ensure you don't warp the cooling fan. The logo on the cooling fan should face down against the heat-sink to ensure the correct direction of airflow.



## BINDING THE TRANSMITTER AND RECEIVER

The binding procedure allows you to bind the transmitter and receiver pair. Once the binding procedure is complete, the setting is remembered even when the transmitter and receiver are turned OFF. The bind code is unique to each transmitter and receiver pair, so you don't need to worry about other users' transmitters interfering with your receiver. You are only able to bind one transmitter to the receiver at any one time.

# Sanwa Manual User Guide

**ML Yell**



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