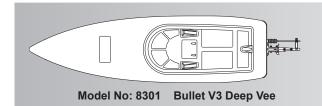






#8301 V3 & #8302 V3 MANUAL

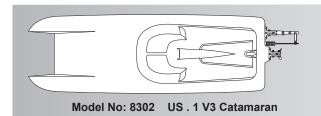
Specifications:



Total Length.......730mm(28.7in)

Beam.......180mm(7.1in)

Speed......60+KPH



Total Length......730mm(28.7in)

Beam.....209mm(8.23in)

Speed.....60+KPH

Universal Assembly:

Motor	Water cooled 2815 out-runer brushless motor(included)
Radio System	2.4G 2CH Digital Proportional Transmitter(Included)
Speed Control	Water cooling 60A Brushless ESC w/BEC (Included)
Drive System	
Propeller	Three Blade Metal Propeller
Battery	Two packs of 7.4V 4000mAh 35C LiPo Pack(Not Included)

Caution for LiPo battery:

ESC with low voltage hard cut off at 3.2V per cell, when driving your boat, as soon as you notice boat stop, that means ESC low voltage cut off effective, you should immediately drive boat back to shore in slow speed, recharge battery and race again. don't keep racing boat when ESC low voltage cut off effective, otherwise, you will allow battery over discharge, battery voltage will reach very low and won't be recharged again.

IMPORTANT: THESE MODELS ARE CAPABLE OF OVER 60 KPH, PERSONAL INJURY OR PROPERTY DAMAGE MAY RESULT FROM MISUSE OF THESE PRODUCTS, TAKE CARE AND ENJOY OUR MODEL RESPONSIBLY.



Thank you for purchasing Joysway brushless motor boat! This manual contains the instructions you need to safely prepare, operate, and maintain your R/C boat. Read over this manual thoroughly before operating Joysway brushless motor boat.

Satety Precations

- Operating care to avoid touching the propeller anytime the motor is operating. If your fingers, hands, etc. come in contact with the spinning propeller, you may be severely injured. This model is capable of inflicting property damage and severe personal injury if a collision occurs. Racing your boat responsibly, stay clear of people, full-scale boats and wildlife.
- The metal hardware on your boat can be sharp. Be careful handling the parts.
- The brushless motor may become hot. After a run allow the motor to cool before touching it.

Specifications & Description Changes

All pictures, descriptions, and specifications found in this instruction manual are subject to change without notice. Joysway maintains no responsibility for inadvertent errors in this manual.

Items Required For Completion & Battery Pack Recommendations

You will need to purchase the followivng items to operate your Joysway brushless motor boat. We highly recommend the use of the following products.

Battery Recommendation

7.4V 4000mAh 35C Lipo battery pack (need 2 packs, series connection)

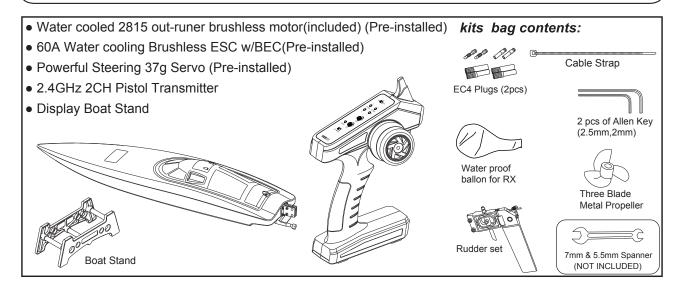
NOTE If you have existing 7.4 V Lipo battery packs, you can update them for use by changing the connectors to EC4 connectors which are included in the kits bag, be sure to solder the connectors to the batteris in the proper polarity. (2 EC4 connectors are already soldered with the ESC, the other 2 EC4 connectors are included in the kits bag)

Charger Recommendation

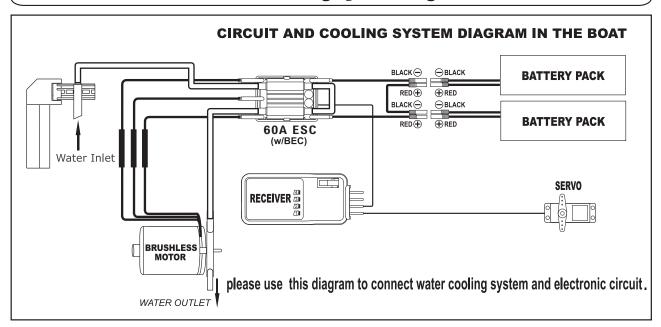
2S/3S Balance Charger and adapter, or multi-functional intelligent charger.

NOTE: You will also need 4 "AA" alkaline batteries for the transmitter.

Contents Of Set



Circuit & Cooling System Diagram

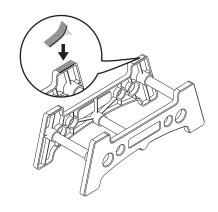


Preparing Your Boat For Operation

Assembling the boat stand

Insert three ABS pipes into the holes of two boat stands shown as photos, compress boat stands and ABS pipes tightly, then stick EVA to the four angles, this will protect the hull bottom from scratches during construction and storage.

NOTE: Bullet deep vee and US.1 catamaran boat use the same boat stand.

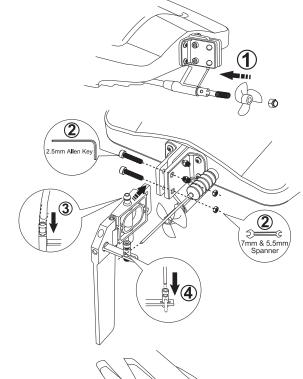


Installing the rudder and propeller

Concerning the package safety, the rudder and propeller are not pre-installed. They are packed well in the kits bag. Follow the belowing steps to install them by yourself easily

- 1.Loosen the screw on the propeller shaft by 7mm

 Spanner, put the propeller in then retighten the screw.
- 2.Insert the rudder support into the support which is already installed on the rear of hull. Thread the two pcs of M3 screw in, Apply two pcs of M3 nut on the screws, retighten the screws and nuts by 2.5mm Allen Key and 5.5mm Spanner.
- 3. Thread the silicone tube in the brass water inlet.
- 4.Loosen the adjuster on the servo horn so as to push rudder rod to thread in the adjuster located in the rudder horn. Make sure the rudder centered and then Retighten the two adjuster with 2.5mm Allen Key.



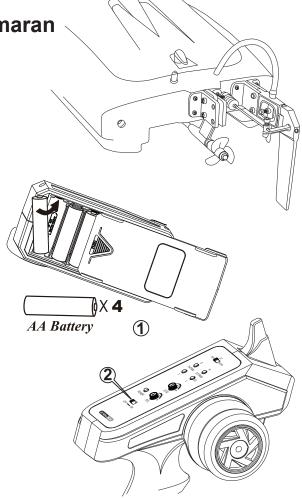
Rudder Assembly For US.1 Catamaran

NOTE: Please install rudder and support on the right support which is pre-installed on the rear of hull in factory. Installing rudder and support on the right side is effective for good performance and stability.

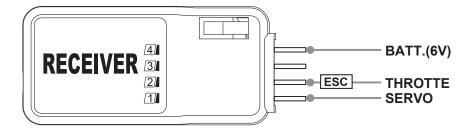
Installing the transmitter

NOTE: The transmitter is not water resistant and should never come in contact with water.

- Install four fresh "AA" batteries. Follow the diagram located in the bottom of the battery tray for prope battery orientation.
- 2. Turn the transmitter "ON" The battery light should glow bright RED.

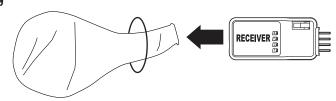


Receiver connection diagram



Note: If ESC with BEC function, no need to connect battery with receiver.

Caution: Before racing boat, Please use ballon supplied in tool bag to wrap receiver for water proof



Installing the Battery

NOTE: We recommand you 2 packs of 7.4V 4000mAh 35C Lipo battery for maximum performance. Using the Provided Hook and Loop which are already tied on the battery locators inside the hull to tie the battery. The battery locators help align the batteries for the best running center of gravity for maximum performance. Belowing are the batteries location inside the hull.

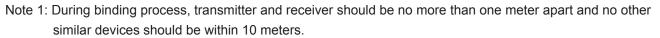


NOTE: 1. There is a water proof rubber ring placed along the slot of hull, always make sure it's secured positioned before re-position the upper deck.

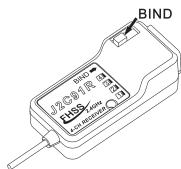
TRANSMITTER/RECEIVER BINDING

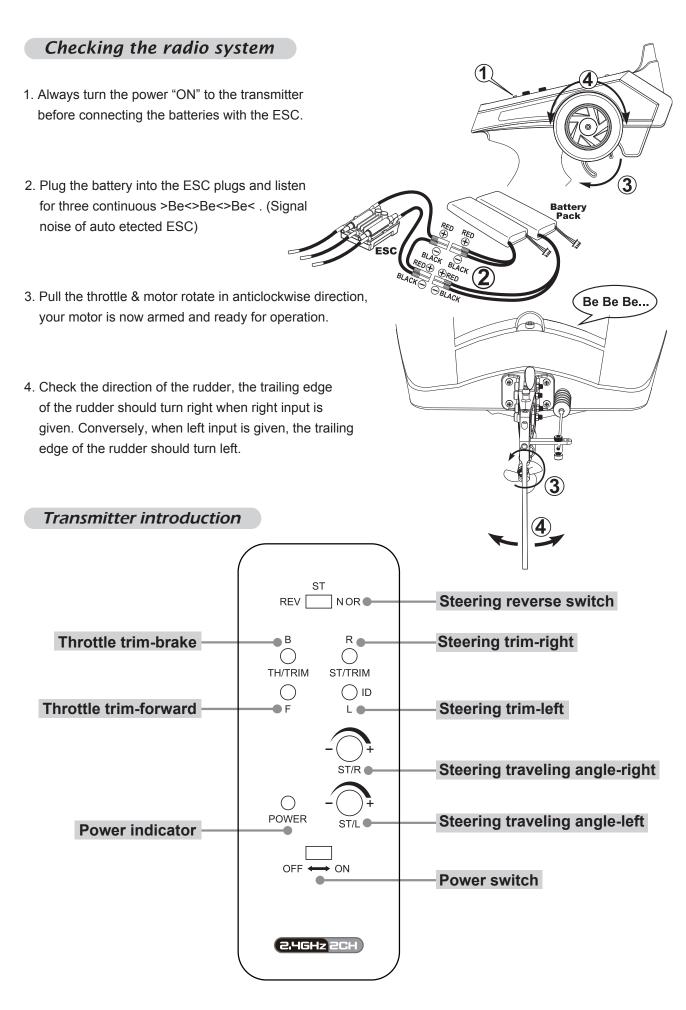
The binding process effectively ties the transmitter and receiver together. Under normal circumstances, both items are supplied like this from the factory. If, however, you find that your transmitter and receiver are not bound(receiver's red LED is on), you should do the following:

- 1) Switch "ON" the transmitter.
- Switch "ON" the receiver by connecting battery to ESC, and ESC cord is plug into Receiver properly(Note:ESC has BEC function).
- 3) Press down the "BIND" button on the receiver, the receiver's green LED will be on to indicate that binding has been successful and the receiver will now accept commands from the transmitter.



Note 2: if the green light flashing, showing the binding failure, please do again as above indication.





EPA Adjustment

Function

Use this when performing left and right steering angle adjustments. End Point Adjustment (EPA) adjusting value range: 0%-100%

Setting

- 1. Steering (right side) angle adjustment Rotate "ST/R" knob to the left end point means minimum value 0%, right end point means maximum value 100%.
- 2. Steering (left side) angle adjustment Rotate "ST/L" knob to the left end point means minimum value 0%, right end point means maximum value 100%.

LEFT BACK RIGHT FWD

Steering reverse switch



CAUTION:

When adjusting this function, make sure the direction is in agreement with the boat direction, you can adjust by the STEERING "REV-NOR" button.

Trim Adjustment

Steering trim

Adjust "ST/TRIM" "R/L" so that rudder is centered prior to operation, you may adjust this control to make the boat run straight during operation.

CAUTION:

When adjusting steering trim, make sure the direction is in agreement with the boat direction, you can adjust by the STEERING "REV-NOR" button.

Throttle trim

Adjust "TH/TRIM" "B/F" to stop propeller from turning while the throttle trigger is in the neutral position.

Steering reverse switch



Speed Control Specification

The Joysway brushless motor boat is assembled with 60A water cooled brushless ESC, please see belowing the specification:

protections: Thermo protection activated at 120°C. LVP(low voltage protection) engaged when Lipo battery (per cell) drop down to 3.2 Voltage.

Operating Cells: 2S - 4S Lipo

Current Rating: 60A

Peak Current: 70A within 10 seconds.

BEC Output: 2A / 5V

Calibration: 1. Ser the trigger to maximum throttle then turn on the transmitter.

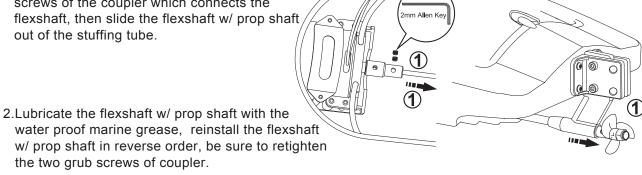
- 2. Connect motor and receiver to the ESC.
- 4. After 4 high pitched tones, set the trigger to minimum throttle.
- 5. After 3 repeat monotones, cut off the power of ESC.

Lubricating The Drive Shaft

Lubricating the flexshaft is vital to the life of the drivetrain. The lubricant also acts as a water seal, keeping water from entering the hull through the stuffing box.

Lubricate the flexshaft, propeller shaft and all moving parts after every 2–3 hours of operation.

1.Use the 2mm Allen key to loose the two grub screws of the coupler which connects the flexshaft, then slide the flexshaft w/ prop shaft out of the stuffing tube.



NOTE: Running the model boat in salt water could cause some parts to corrode. If you run the boat in salt water, rinse it thoroughly in fresh water after each use and lubricate the drive system.

Spare part list

To order Joysway brushless motor boat spare parts, use the part numbers in the spare parts list that follows.

PART NO.	DESCRIPTION
83002	water proof rubber ring (PK2) for Bullet
83004	water proof rubber ring (PK2) for US.1
83013	Aluminum alloy rudder assembly set
83014	37g standard servo
83016	rudder clevis (PK2)
83018	rudder assembly plastic bracket set
830103	Bullet hull only, without decals
920101	7.4V 4000mAh 35C LiPo Pack
92025	P1.4X37mm Three Blade metal Propeller-V2&V3
920102	60A Brushless ESC w/ two EC4 connector-V2&V3
93017	water-proof rudder pushing rod tube(PK2)
930518	J2C93 2.4GHz 2CH Transmitter
930519	J2C91R 2.4GHz 4CH Receiver
830105	water cooling mount of BL2815 motor-V2&V3
830107	BL2815 Out-runner brushless motor-V2&V3
830108	Coupler(4mm) of BL2815 motor-V2&V3
830109	4mm Flex shaft set for Bullet-V2&V3
830110	rear shaft strut support set 4mm version-V2&V3
830111	Connected rod of Rudder for Bullet-V2&V3
830202	4mm Flex shaft set for US.1-V2&V3
830203	Connected rod of Rudder for US.1-V2&V3
860210	2S/3S balance charger with DC adapter
860211	2S/3S balance charger with AC Europe wall adapter



FCC REQUIREMENT

This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) This device may not cause harmful interference, and (2) This device must accept any interference received, including interference that may cause undesired operation.

CAUTION: Changes or modifi cations to this product not expressly approved by the party responsible forcompliance may void the user's authority to operate the equipment.