

INSTRUCTION MANUAL

THIS MODEL IS NOT A TOY!

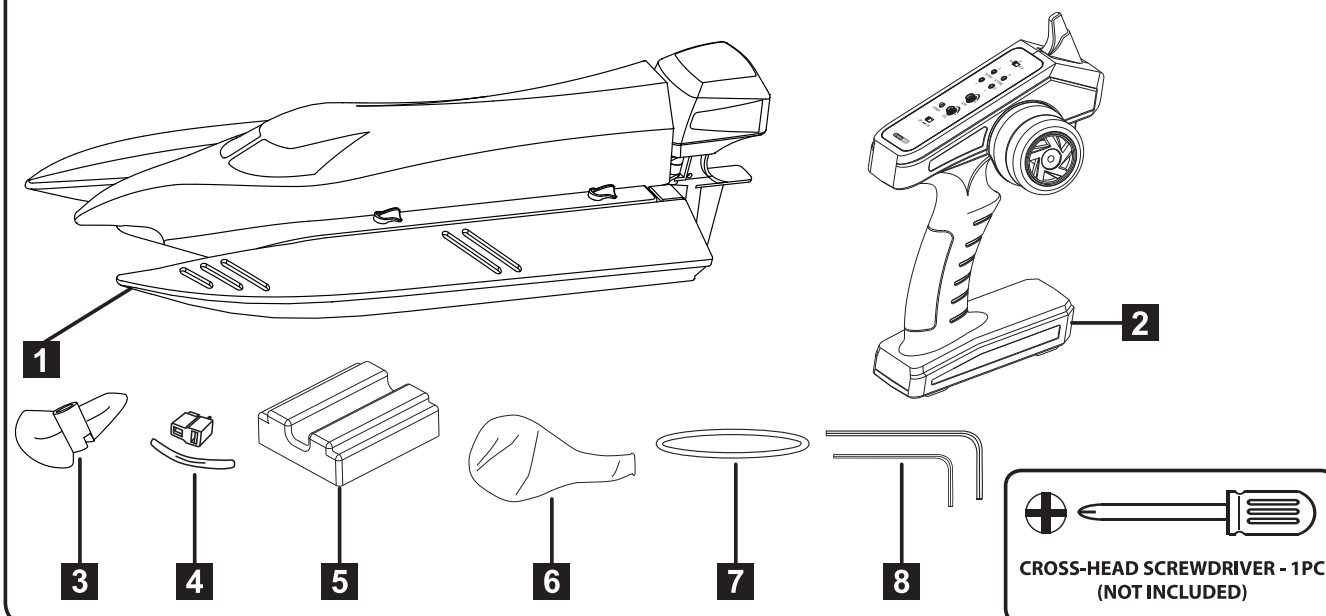
THESE INSTRUCTIONS SHOULD BE READ BY A SUPERVISING ADULT

MAD SHARK 2.4GHz ARTR BRUSHLESS Mini F1 SPEED BOAT V2

ITEM NO.8205

CONTENTS OF SET

- | | |
|-------------------------------------|--|
| 1) Mad Shark Racing Boat | 5) Boat Stand |
| 2) Transmitter | 6) Water proof ballon for RX |
| 3) Spare Nylon Propeller | 7) Rubber Band |
| 4) Deans Plug W/Heat Shrinking Tube | 8) 2.5mm Allen Key (For pushrod tighten) |
| | 2.0mm Allen Key (for Grub Screws) |



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.

ATTENTION:

Before racing your model boat, carefully check silicone tube for guarantee good water cooling system; Avoid water inlet on the bottom of hull become deformed, otherwise, water cooling system failure, this may lead to ESC burned out and motor defected.

IMPORTANT

Mad Shark is designed for use in fresh water only. It is not designed for use in salt water!
Mad Shark is not intended for persons under 14 years of age, unless closely supervised by an adult.
This model is capable of over 45 KPH, Personal injury or property damage may result from misuse of this product, take care and enjoy your model responsibly.

BATTERY RECOMMANDATION

One pack of 11.1V 1300mAh 35C Lipo battery (Not included)

NOTE: If you have existing 11.1V Lipo battery pack, you can update them for use by changing the connector to Deans connector which is included in the kits bag, be sure to solder the connector to the battery in the proper polarity. (1 Male Deans connector is already soldered with the ESC, the other 1 Female Deans connector is included in the kits bag)

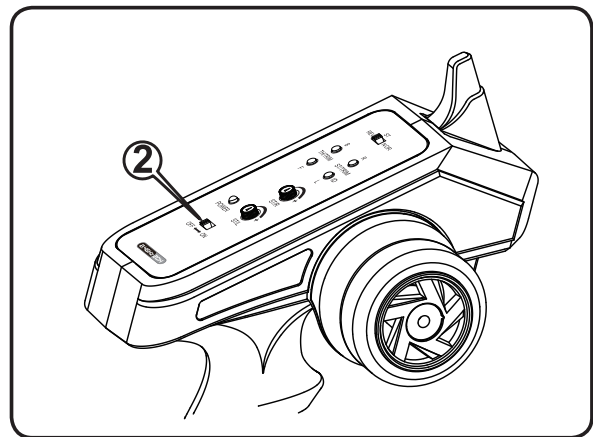
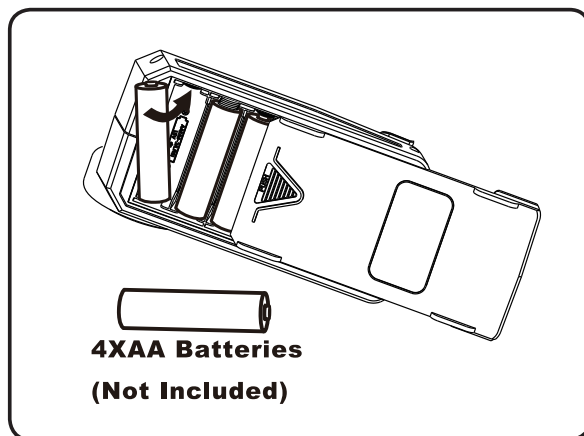
CHARGER RECOMMANDATION

2S/3S Balance Charger and adapter, or multi-functional intelligent charger (Not included)

INSTALLING TRANSMITTER BATTERIES

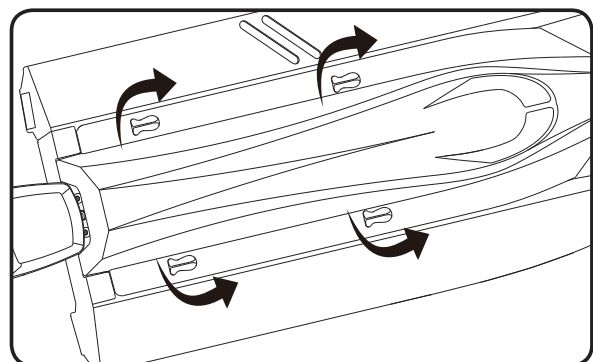
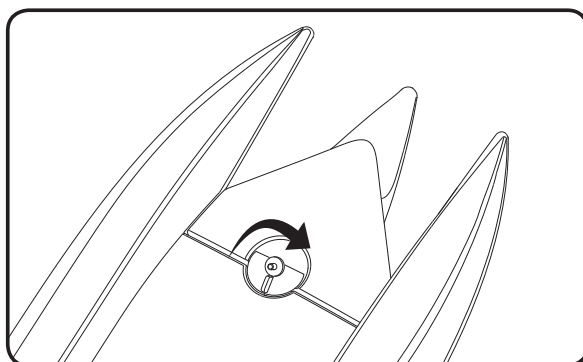
NOTE: The transmitter is not water resistant and should never come in contact with water.

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

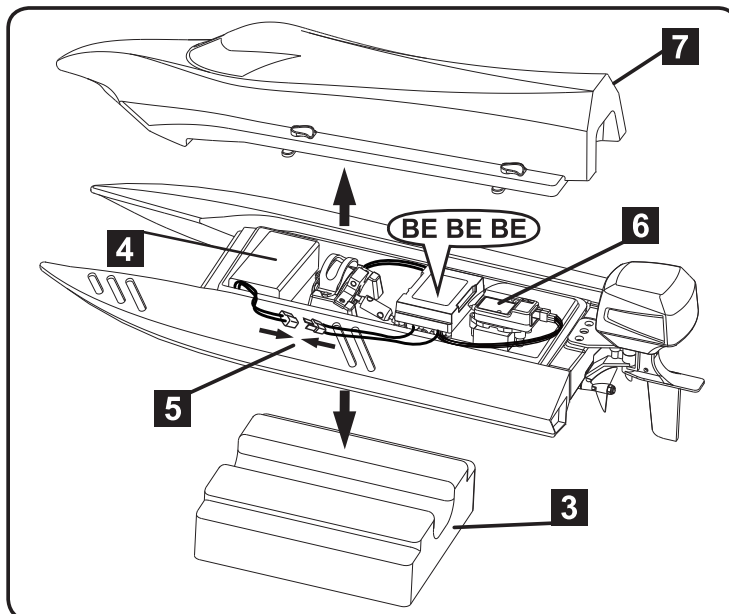


INSTALLING THE 11.1V LIPO IN THE MAD SHARK

1. Switch on transmitter power, the light glows bright red.
2. firstly rotate the plastic lock underneath the boat head, then rotate the four plastic lock at the hatch as photo show to remove the hatch.

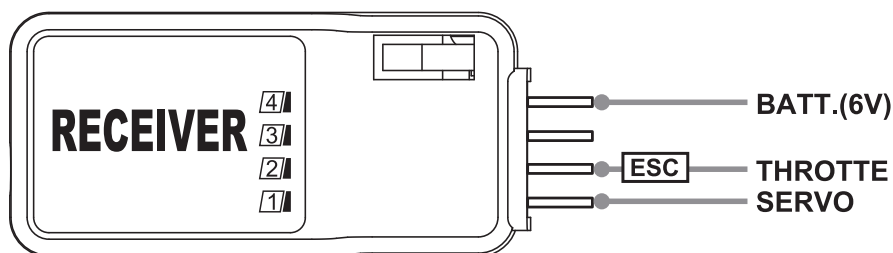


3. Place the boat hull on the polyfoam boat stand
4. Fixt the charged finished battery inside the hull with velco strap.
5. Attach battery connector to the matching connector of ESC.
6. Receiver's light glow green, ESC will mak e sound of " BE, BE, BE".
7. Re-position hatch by rotating plastic locks at the hatch firstly, then rotate the plastic lock underneath the boat head.



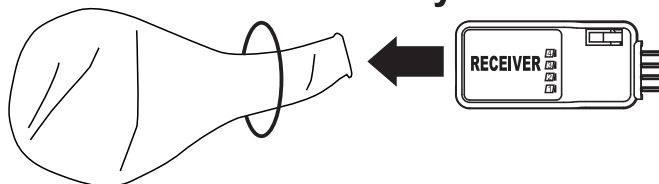
NOTE: 1. There is a water proof rubber ring placed inside the slot of hull, always make sure it's secured positioned before re-position the hatch.

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



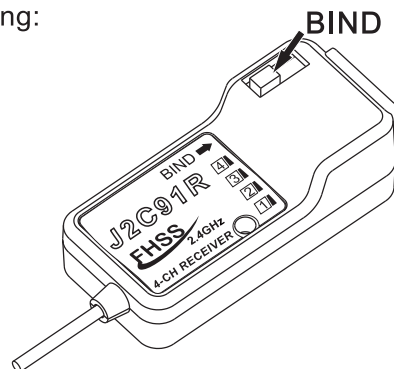
TRANSMITTER/RECEIVER BINDING

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.
- 2) 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.

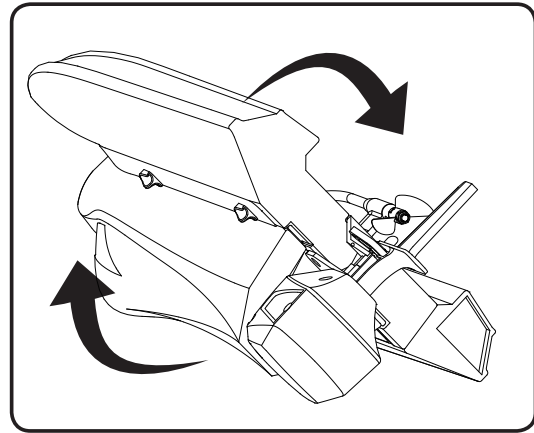
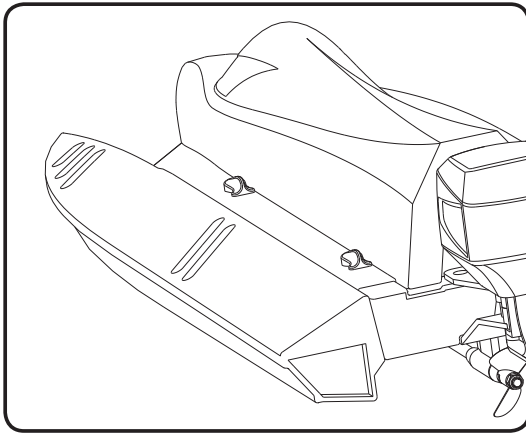
Note 1: During binding process, transmitter and receiver should be no more than one meter apart and no other similar devices should be within 10 meters.

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



SELF-RIGHTING FEATURE

Intelligent hull design with self-righting feature, separated left part of hull laser cutted with holes. When boat accidentally turn over in high speed racing in big wave, don't worry, please wait for a while, the water will come into left part of hull through holes, changing the CG of boat, then it will automatically self-righting and keep racing, water will be drained out from the hole of rear hull.

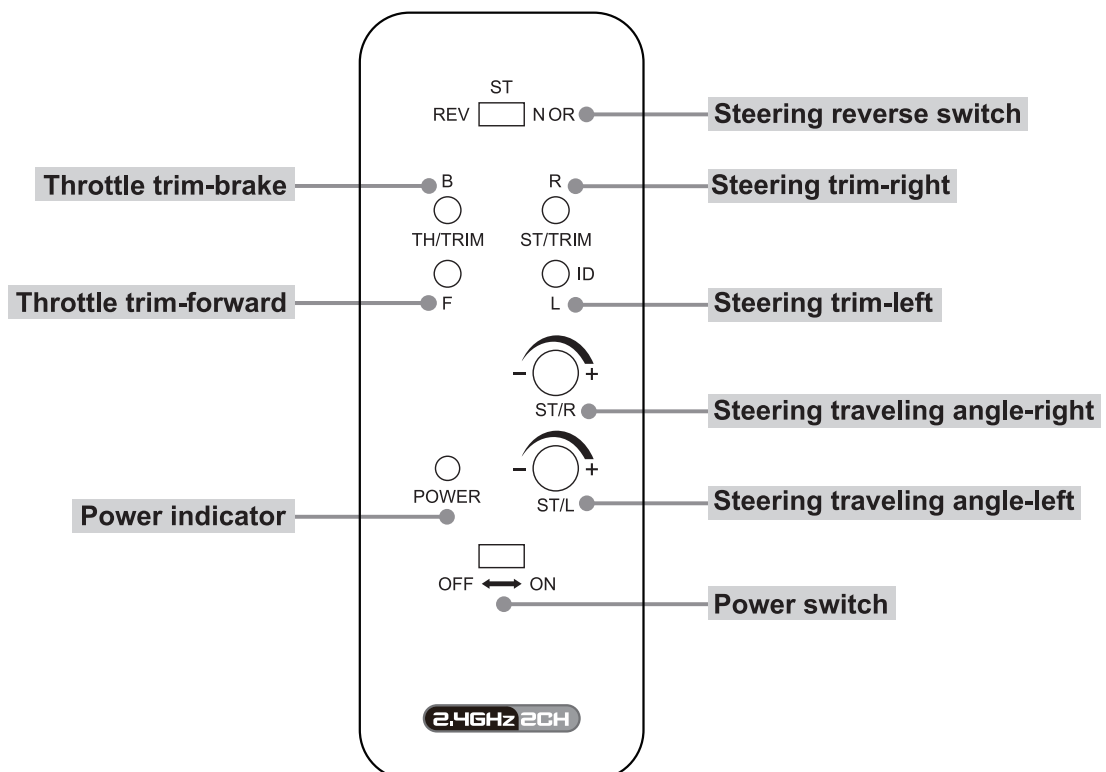


AFTER USE

1. When you have finished using your Mad Shark, you should first switch 'OFF' the model (disconnect the 11.1V LiPo), then switch 'OFF' your transmitter.
2. Remove all batteries from the transmitter and model.
3. Leave Mad Shark's upper deck off to allow moisture to evaporate. Ideally, place the model in this way in a warm and dry place, like an airing cupboard, until you are sure it is dry and then store it away.
4. Remove the rubber ring from the slot of hull, so as to keep the rubber ring flexible for water proof effective in next time boat racing.

NOTE: If Mad Shark begins to bob when running, it may have taken on an excessive amount of water. In this case, you should immediately return to shore, remove the upper deck and drain the water from the hull.

TRANSMITTER INTRODUCTION



EPA ADJUSTMENT

Function

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

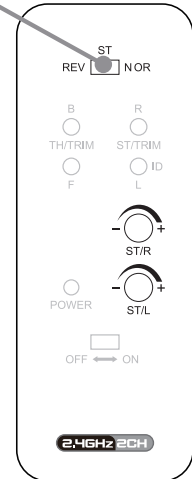
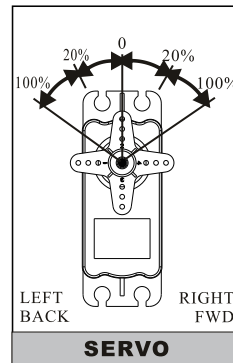
Setting

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%.

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.

Steering reverse switch



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.

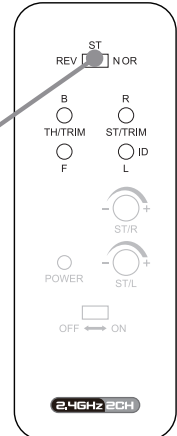
CAUTION:

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.

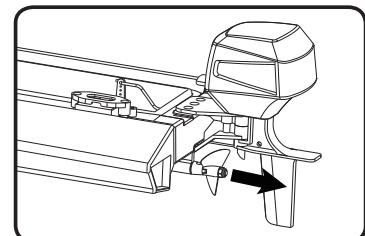
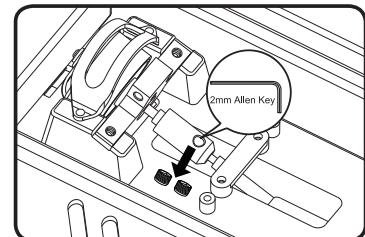
Steering reverse switch



LUBRICATING 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 tube. Lubricating the flexshaft, propeller shaft after every 2 or 3 times of operation.

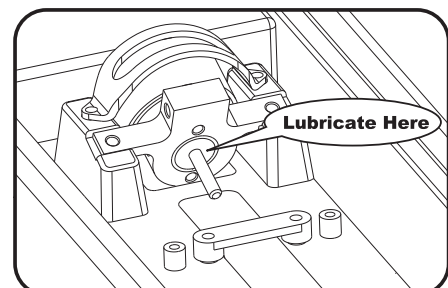
1. Use the 2mm Allen key to loose the two grub screws of the coupler which connects the flexshaft, then slide the flexshaft w/ prop shaft out of the stuffing tube.
2. Lubricate the flexshaft w/ prop shaft with the water proof marine grease, reinstall the flexshaft w/ prop shaft in reverse order, be sure to retighten the two grub screws of coupler.



IMPORTANT - Mad Shark

The bearing in the water cooled motor mount must be regularly lubricated with oil, grease or Vaseline petroleum jelly to prevent corrosion through the ingress of water.

Insufficient lubrication may lead to the premature failure of the bearing. Note: Image shows drive shaft removed for clarity - the bearing can be lubricated with the drive shaft in situ.



CAUTION!

Please observe the following warnings.

DURING OPERATION

- The transmitter's range will vary depending on your surroundings and battery strength. Do not operate Mad Shark too far away or control will be lost.
- Ensure that all batteries are correctly installed and that the 11.1V LiPo is fully charged.
- Do not operate your Mad Shark in areas with strong currents, in salt water or areas of water with large waves.
- Do not touch moving parts during operation, especially the propeller.
- Do not let your Mad Shark runs aground, as this can cause damage.
- If you lose control of your Mad Shark , never wade into deep water or water with strong currents to retrieve it. First, hold the transmitter as high as you can to try to re-establish control. If this does not work, find another way to move closer to the model, but do not endanger yourself in the process!

TROUBLE SHOOTING

Check using the chart below before returning your Mad Shark for repair as many problems can be easily solved

PROBLEM	CAUSE	REMEDY
Model will not move	No battery in transmitter/model Battery installation is incorrect Weak battery in transmitter Weak batteries in model	Install batteries Install batteries correctly Install a fresh battery Recharge 11.1V LiPo
No control of model	Weak battery in transmitter	Install a fresh battery
Limited radio range	Weak battery in transmitter	Install a fresh battery

SPARE PARTS

PART NO.	DESCRIPTION
820501	Mad shark brushless motor
820502	Water cooling motor mount set
820503	Mad shark Deck(white) & water proof gasket
820504	Flex Shaft set for Mad shark
820505	Scale Outboard engine and rudder set
820506	P1.4X35mm Φ3.1mm Two Blade Nylon Propeller (PK2)
820508	2S/3S Blance Charger with DC Adapter
820510	Two bearing inside rear shaft strut
820511	2S/3S Blance Charger with AC Adapter
820512	11.1V 1300mAh 35C LiPo pack
82034	Coupler for CF2812 motor
82058	Deck plastic lock set
820902	30A Water Cooling Brushless ESC w/ BEC
930518	J2C93 2.4GHz 2CH Transmitter
930519	J2C91R 2.4GHz 4CH Receiver



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 modifications to this product not expressly approved by the party responsible for compliance may void the user's authority to operate the equipment.