

INSTRUCTION MANUAL THIS MODEL IS NOT A TOY!

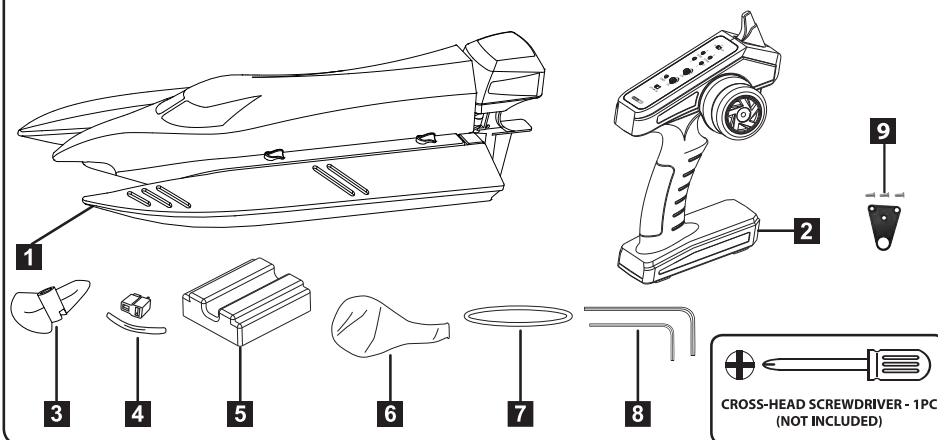
THESE INSTRUCTIONS SHOULD BE READ BY A SUPERVISING ADULT

MAD SHARK V2 2.4GHz ARTR BRUSHLESS Mini F1 SPEED BOAT

ITEM NO.8205V2

CONTENTS OF SET

- | | |
|------------------------------------|--|
| 1) Mad Shark V2 Racing Boat | 6) Water proof ballon for RX |
| 2) Transmitter | 7) Rubber Band |
| 3) Spare Nylon Propeller | 8) 2.5mm Allen Key (For pushrod tighten) |
| 4) XT60 Plug W/Heat Shrinking Tube | 2.0mm Allen Key (for Grub Screws) |
| 5) Boat Stand | 9) Radio hanger & 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.

RADIO HANGER

Triangle radio hanger and 3pcs screw are included in tool bag, use these to hang radio on your neck with ribbon.



BATTERY RECOMMENDATION

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 **XT60** connector which is included in the kits bag, be sure to solder the connector to the battery in the proper polarity. (1 Male **XT60** connector is already soldered with the ESC, the other 1 Female **XT60** connector is included in the kits bag)

RTR VERSION BATTERY & USB CHARGER

For RTR version, Kit contents including 11.1V 1300mAh 35C LiPo battery, 3S USB balance charger. It can be only used to recharge 11.1V Lithium battery.

USB Charger Specification:

Input: 5V 1~2A

Output: 11.1V 500mA



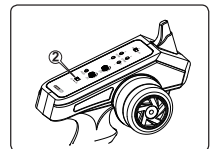
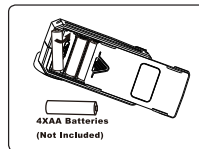
Charging Procedures:

- 1) 3S USB balance charger can be connected with computer equipment, mobile phone adapter or power bank.
- 2) Red light flash when connect with any power supply device as advised above.
- 3) Red light on when charging battery.
- 4) When battery fully charged, red light off.
- 5) A fully discharge battery will take about 3 hours to be fully charged. Do not leave the battery unattended while charging.

INSTALLING TRANSMITTER BATTERIES

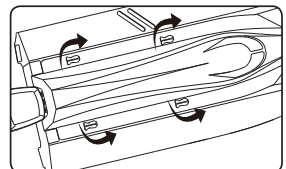
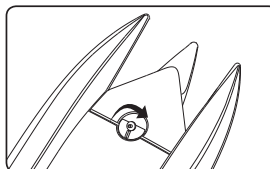
NOTE: The transmitter is not water resistant and should never come in contact with water.

1. Install four fresh "AA" batteries. Follow the diagram located in the bottom of the battery tray for proper battery orientation.
2. Switch on transmitter, transmitter make sound "Bi", LED power light will be flashing.

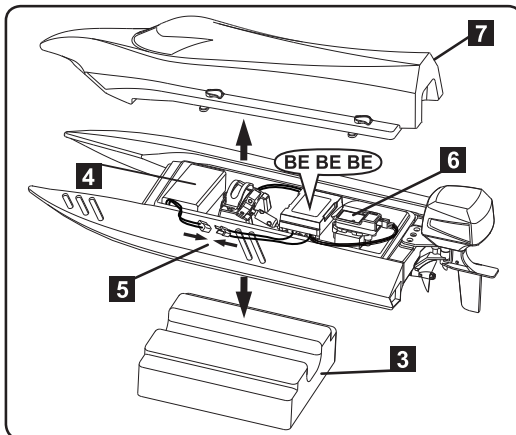


INSTALLING THE 11.1V LIPO IN THE MAD SHARK

1. Switch on transmitter, transmitter make sound "Bi", LED power light will be flashing.
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.

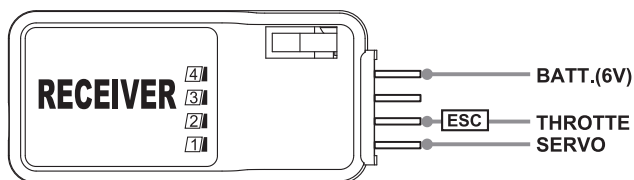


- Place the boat hull on the polyfoam boat stand
- Fixt the charged finished battery inside the hull with velco strap.
- Attach battery connector to the matching connector of ESC.
- Transmitter make sound “Bi Bi”, LED power light turn to solid on, receiver LED light switch on. ESC make sound of “BE, BE, BE”.
- Re-position hatch by rotating plastic locks at the hatch firstly, then rotate the plastic lock underneath the boat head.



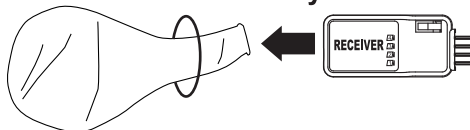
NOTE: 1. There is a water proof rubber ring placed inside the slot of hull, always make sure it's secured positioned before re-position the hatch.

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



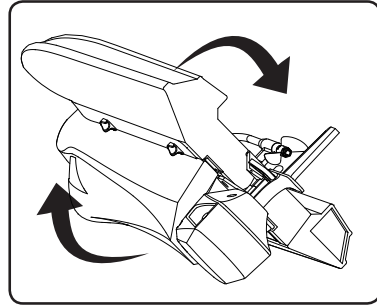
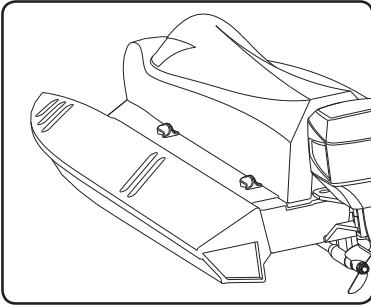
TRANSMITTER/RECEIVER BINDING

transmitter and receiver are automatically binding once they are power on. No need to press any bind button. Just make sure no other transmitter or receiver should be powered on near by.

- Switch on transmitter, transmitter make sound “Bi”, LED power light will be flashing.
- Connect battery with boat’s ESC, transmitter make sound “Bi Bi”, LED power light turn to solid on, now transmitter have automatically bind with boat.

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.

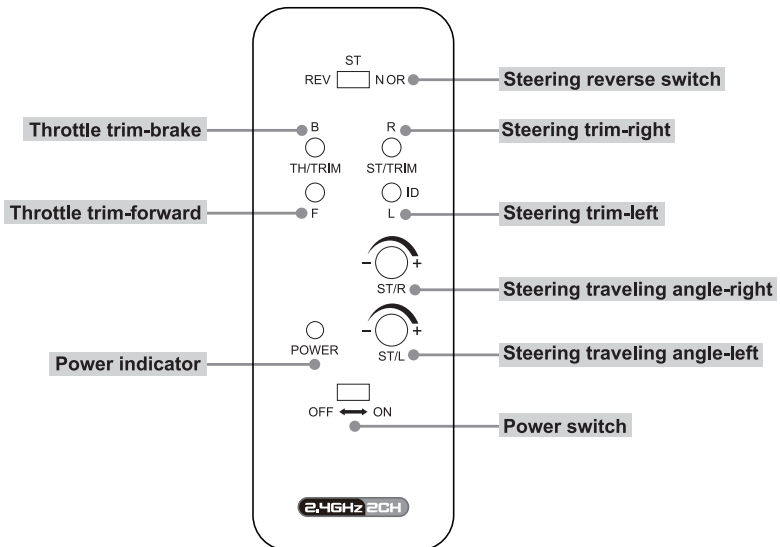


AFTER USE

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%

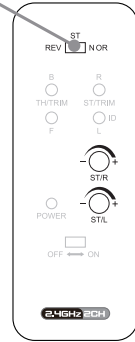
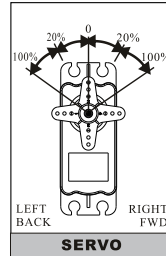
Setting

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.

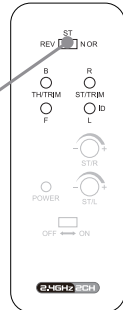
CAUTION:

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

Steering reverse switch

Throttle trim

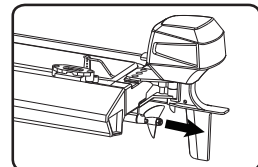
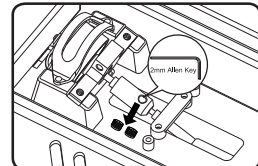
Adjust "TH/TRIM" "B/F" to stop propeller from turning while the throttle trigger is in the neutral position.



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.

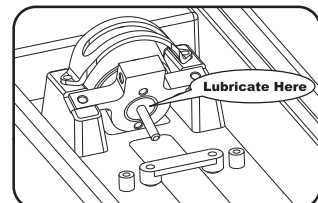
1. Use the 2mm Allen key to loose the two grub screws of the coupler which connects the flexshaft, then slide the flexshaft w/ prop shaft out of the stuffing tube.
2. Lubricate the flexshaft w/ prop shaft with the water proof marine grease, reinstall the flexshaft w/ prop shaft in reverse order, be sure 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
820503	Mad shark Hatch(Red) & gasket with plastic lock set
820504	Flex Shaft set for Mad shark
820505	Scale Outboard engine and rudder set(Without decal)
820506	P1.4X35mm Φ3.0mm Two Blade Nylon Propeller (PK2)
820510	two bearing inside rear shaft strut
820512	11.1V 1300mAh 35C LiPo pack
610212	2S/3S balance charger & EU plug AC power cable
820514	2S/3S balance charger & UK plug AC power cable
820515	2S/3S balance charger & US plug AC power cable
820516	2S/3S balance charger & AU plug AC power cable
820517	3S USB balance charger
82033	water cooling motor mount set
82034	Aluminium Alloy Coupler w/3 screws
82058	deck plastic lock set
820902	30A Water Cooling Brushless ESC w/ BEC
810608	J2C96 2.4GHz 2CH transmitter
880205	J2C96R 2.4GHz 4CH receiver



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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.