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› Amewi 26095 Tornado Brushless High-Speed Boat 450mm 65km/h 2.4GHz RTR User Manual

Amewi 26095

Amewi Tornado High-Speed RC Boat User Manual

Model: 26095

1. IMPORTANT SAFETY WARNINGS

Failure to follow these safety instructions may result in injury or damage to the product.

- **Age Recommendation:** This product is not a toy and is suitable for users aged 14 years and older. Adult supervision is required for younger users.
- **Small Parts:** Contains small parts that could be a choking hazard. Keep away from children under 3 years.
- **Battery Safety:**
 - Use only the specified LiPo battery (3S, 11.1V, 1600mAh, 30C) and charger.
 - **WARNING:** The included USB charger may not be suitable for multi-cell LiPo batteries and poses a fire risk. It is highly recommended to use a qualified LiPo charger with balancing function for safe charging.
 - Never leave batteries charging unattended.
 - Charge batteries on a non-flammable surface away from flammable materials.
 - Do not overcharge or over-discharge batteries.
 - Store LiPo batteries at a storage voltage (approx. 3.7V per cell) in a fireproof bag or container.
 - If the battery swells, leaks, or becomes hot, discontinue use immediately and dispose of it properly.
- **Water Operation:** Operate the boat only in open water areas free from obstacles, swimmers, or wildlife.
- **Propeller Hazard:** Keep hands, fingers, loose clothing, and hair away from the rotating propeller when the boat is powered on.
- **Electrical Components:** Ensure all electrical components are dry before and after use. Avoid contact with water inside the hull.
- **Maintenance:** Perform regular maintenance as described in this manual to ensure safe operation and product longevity.

2. PACKAGE CONTENTS

Verify that all items listed below are included in your package:

- Amewi Tornado High-Speed RC Boat
- 2.4GHz Transmitter (Remote Control)
- LiPo Battery (3S, 11.1V, 1600mAh)
- USB Charger (for LiPo battery)
- Boat Stand
- Spare Propeller
- Hex Wrench
- Instruction Manual



Image: Complete package contents of the Amewi Tornado RC Boat, showing the boat, remote control, battery, charger, boat stand, and small accessories.

3. PRODUCT OVERVIEW

3.1 Boat Components



Image: Top view of the Amewi Tornado RC Boat, highlighting the sleek design and main body.

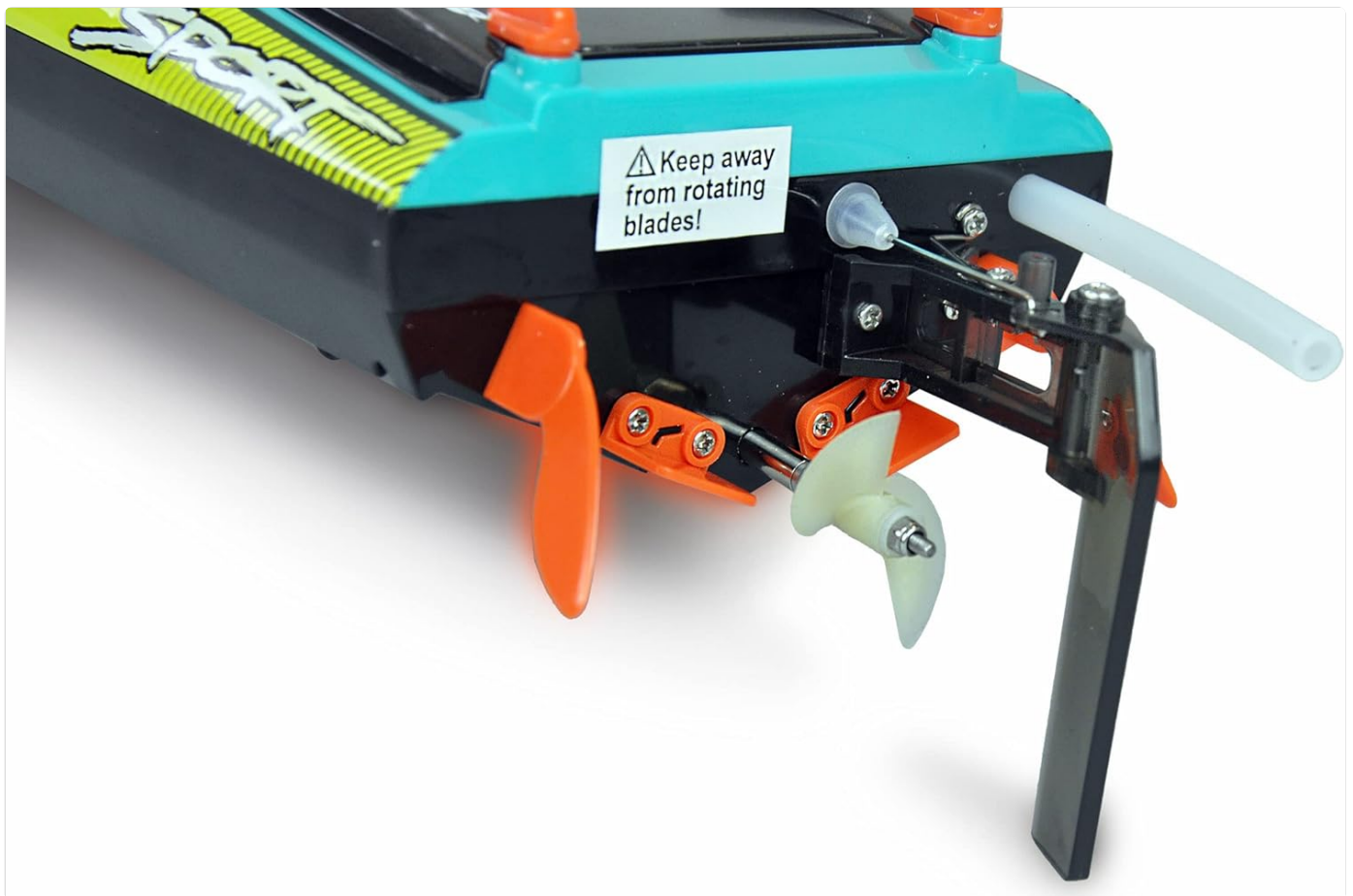


Image: Close-up of the boat's stern, detailing the propeller, rudder, and water cooling system outlet.

3.2 Transmitter (Remote Control)



Image: The 2.4GHz pistol-grip style transmitter for controlling the Amewi Tornado RC Boat.

The transmitter features a steering wheel for directional control and a trigger for throttle (forward/reverse). It operates on a 2.4GHz frequency for reliable communication.

4. SETUP

4.1 Charging the LiPo Battery

Before first use, fully charge the included LiPo battery. Connect the battery to the provided USB charger. The charger's indicator light will show charging status (refer to charger manual for specific light indications). Charging time may vary.

Important Battery Charging Note:

While a USB charger is included, it is strongly recommended to invest in a dedicated LiPo balance charger for multi-cell batteries (like the 3S battery in this boat). A proper balance charger ensures each cell is charged equally, prolonging battery life and significantly reducing the risk of overcharging and potential fire hazards. Always supervise charging.

4.2 Installing the Boat Battery

1. Carefully remove the boat's canopy/hatch to access the internal compartment.
2. Place the charged LiPo battery into the battery compartment. Secure it using the provided hook-and-loop straps to prevent movement during operation.
3. Connect the battery's XT60 connector to the boat's ESC (Electronic Speed Controller) connector.
4. Ensure all wires are neatly tucked away and do not interfere with moving parts or the hatch closure.
5. Securely reattach the canopy/hatch, ensuring a watertight seal.



Image: Internal view of the boat's hull, showing the placement of the LiPo battery secured by straps and connected to the electronics.

4.3 Transmitter Battery Installation

Open the battery compartment on the bottom of the transmitter. Insert the required batteries (usually AA, not included) according to the polarity markings. Close the compartment cover securely.

4.4 Binding the Transmitter and Receiver

The boat and transmitter are typically pre-bound from the factory. If re-binding is necessary, follow these steps:

1. Ensure both the boat battery and transmitter batteries are installed and charged.
2. Turn on the transmitter first.
3. Connect the boat's battery. The receiver in the boat will attempt to bind with the transmitter.
4. Wait for the indicator lights on both the transmitter and receiver to show a solid connection (refer to specific light patterns in the separate transmitter manual if provided).
5. Test the controls (steering and throttle) to ensure proper function before placing the boat in water.

4.5 Propeller and Rudder Check

Before each use, ensure the propeller is securely attached and free from damage. Check that the rudder moves freely and responds correctly to steering inputs from the transmitter.

4.6 Drive Shaft Lubrication

Crucial Maintenance Point:

The drive shaft (the shaft connecting the motor to the propeller) requires lubrication before every use, or at least after every second use, to prevent water ingress and reduce wear. Use a marine-grade grease or specialized shaft grease for RC boats. Do NOT use general oils or petroleum jelly as they are not suitable for this application and may cause damage or water leaks.

1. Remove the propeller.
2. Carefully pull the drive shaft slightly out from the stern of the boat.
3. Apply a small amount of suitable grease along the exposed shaft.
4. Push the shaft back into place and reattach the propeller.

5. OPERATING INSTRUCTIONS

5.1 Pre-Operation Checklist

- LiPo battery fully charged and securely installed.
- Transmitter batteries installed and power on.
- Boat and transmitter are bound.
- Propeller and rudder are free from obstructions and move correctly.
- Drive shaft is lubricated.
- Hatch is securely closed and watertight.
- Operating area is clear of obstacles and safe for RC boat use.

5.2 Launching the Boat

Gently place the boat into the water. Ensure the boat is floating level and no water is entering the hull.

5.3 Controlling the Boat

- **Forward:** Pull the throttle trigger on the transmitter.
- **Reverse:** Push the throttle trigger forward (away from you).
- **Steering:** Turn the steering wheel on the transmitter left or right.
- **Speed Adjustment:** The transmitter may have a speed adjustment dial or switch. For beginners, it is recommended to start at a lower speed setting.

5.4 Self-Righting Function

If the boat flips over during operation, it is designed with a self-righting feature. By quickly applying forward and reverse throttle, you can rock the boat to flip it back upright. This may require several attempts, especially in choppy water.

5.5 Low Battery Warning

When the boat's battery is low, the boat will typically slow down significantly or the transmitter may emit an audible warning. When this occurs, immediately bring the boat back to shore to avoid losing power in the water.

5.6 Retrieving the Boat

Always retrieve the boat manually once the battery is low or operation is complete. Do not attempt to swim after the boat.

6. MAINTENANCE

6.1 After Each Use

- Remove the boat from the water and disconnect the battery immediately.
- Open the hatch and carefully inspect for any water ingress. If water is present, dry it thoroughly and investigate the cause.
- Wipe down the entire boat, inside and out, with a soft, dry cloth. Ensure all electronic components are completely dry.
- Remove the propeller and clean any debris (weeds, fishing line, etc.) from the propeller and drive shaft.

6.2 Regular Maintenance

- **Drive Shaft Lubrication:** As mentioned in Section 4.6, lubricate the drive shaft before every use or every second use. This is critical for preventing water intrusion and ensuring smooth operation.
- **Rudder and Steering Linkage:** Check for any looseness or damage. Ensure smooth movement.
- **Propeller Inspection:** Regularly inspect the propeller for chips, cracks, or bends. Replace if damaged.
- **Hull Integrity:** Periodically check the hull for cracks or damage that could compromise its watertight seal.

6.3 Storage

When storing the boat for extended periods:

- Ensure the boat is completely clean and dry.
- Disconnect and remove the LiPo battery from the boat. Store the LiPo battery at its storage voltage (approx. 3.7V per cell) in a cool, dry place, preferably in a fireproof bag.
- Remove batteries from the transmitter.
- Store the boat in a cool, dry place away from direct sunlight and extreme temperatures.

7. TROUBLESHOOTING

Problem	Possible Cause	Solution
Boat does not respond to transmitter.	<ul style="list-style-type: none"> • Boat or transmitter not powered on. • Low battery in boat or transmitter. • Not bound correctly. • Interference. 	<ul style="list-style-type: none"> • Ensure both are powered on. • Charge/replace batteries. • Re-bind boat and transmitter (refer to Section 4.4). • Move to an area with less interference.
Boat is slow or loses power quickly.	<ul style="list-style-type: none"> • Low boat battery. • Propeller fouled with debris. • Motor/ESC overheating. 	<ul style="list-style-type: none"> • Recharge boat battery. • Check and clear propeller. • Allow components to cool down.
Boat flips over frequently / unstable.	<ul style="list-style-type: none"> • Operating in rough water. • Improper weight distribution (battery not secured). • High speed in turns. 	<ul style="list-style-type: none"> • Operate in calmer water. • Ensure battery is securely fastened. • Reduce speed, especially during turns. Use self-righting function.
Water inside the hull.	<ul style="list-style-type: none"> • Hatch not sealed properly. • Drive shaft not lubricated. • Hull damage. 	<ul style="list-style-type: none"> • Ensure hatch is securely closed. • Lubricate drive shaft (refer to Section 4.6). • Inspect hull for cracks and repair if necessary.
Charger gets hot or smells.	<ul style="list-style-type: none"> • Faulty charger. • Improper charging conditions. 	<ul style="list-style-type: none"> • Immediately disconnect power. Discontinue use of the included USB charger. Obtain a qualified LiPo balance charger. • Always charge on a non-flammable surface and supervise.

8. SPECIFICATIONS

Feature	Detail
Model Number	26095
Dimensions (L x W x H)	47 x 12.5 x 9 cm
Weight	617 grams
Recommended Age	14 years and up
Max Speed	65 km/h
Motor Type	Brushless Outrunner
Battery Type	LiPo, 3S, 11.1V, 1600mAh, 30C, soft case, XT60 connector
Battery Dimensions	74 x 35 x 24 mm
Battery Weight	120 g
Main Material	ABS Plastic
Radio Control Type	2.4 GHz Radio
Color	Multicolor

9. WARRANTY AND SUPPORT

Amewi products are designed for quality and performance. For warranty information, technical support, or spare parts availability, please refer to the documentation included with your purchase or visit the official Amewi website. Please note that availability of spare parts information is not provided in this manual.

Keep your purchase receipt as proof of purchase for any warranty claims.