Tissting Tisstingrkbw2h84ae

Tissting 45A Brushless Electronic Speed Controller User Manual

Model: Tisstingrkbw2h84ae

1. Product Overview

The Tissting 45A Brushless Electronic Speed Controller (ESC) is designed for 1/10 scale short-range RC trucks. This ESC offers robust performance, comprehensive safety features, and versatile compatibility for an enhanced remote control vehicle experience.

Key Features:

- **Water and Dust Proof Design:** Ensures consistent performance in various weather conditions, protecting internal components.
- **External Programming Port:** Allows for quick and easy connection to a programming card for customized settings.
- **Comprehensive Safety Features:** Includes low voltage cutoff, overheat protection, throttle signal loss safeguard, and motor lock guard for secure operation.
- **Enhanced Performance Controls:** Features proportional braking with four adjustable maximum braking force levels, eight drag braking force settings, and nine steps of acceleration tuning.
- **Versatile Compatibility:** Equipped with a built-in switch mode BEC, ensuring compatibility with various servo systems for 1/10 scale short-range trucks.



Image 1.1: The Tissting 45A Brushless ESC, demonstrating its compatibility with different 1/10 scale RC trucks.

2. Setup Instructions

Proper setup is crucial for optimal performance and safety. Follow these steps to install and configure your ESC.

2.1 Component Identification



Image 2.1: Detailed view of the ESC, showing its main body, cooling fan, power input (T-plug), motor output wires (yellow, blue, black), and receiver connection cable with an external programming port.

Familiarize yourself with the ESC components as shown in Image 2.1. Note the power input connector (T-plug), the three motor output wires, and the receiver connection cable with the integrated external programming port.

2.2 Wiring Connections

1. **Motor Connection:** Connect the three motor wires from the ESC to your brushless motor. The order of connection may affect motor rotation direction; adjust if necessary during initial testing.
2. **Battery Connection:** Connect your battery pack to the T-plug power input of the ESC. Ensure correct polarity.
3. **Receiver Connection:** Plug the ESC's receiver cable into the throttle channel (usually channel 2) of your RC receiver.
4. **Servo Connection:** If using additional servos, connect them to the appropriate channels on your receiver. The ESC's built-in BEC provides power to the receiver and servos.

2.3 Initial Calibration and Programming



Image 2.2: The external programming port of the ESC, designed for easy connection to a programming card (sold separately) for parameter adjustments.

After all connections are made, perform a throttle range calibration with your radio transmitter. Refer to your radio's manual for specific calibration steps. The external programming port (Image 2.2) allows for fine-tuning of ESC parameters such as braking force, acceleration, and battery cutoff voltage using a compatible programming card.

3. Operating Instructions

Once the ESC is properly installed and calibrated, you can begin operating your RC vehicle.

1. **Power On:** Ensure your transmitter is turned on first, then connect the battery to the ESC. The ESC will emit a series of tones indicating successful initialization.
2. **Throttle Control:** Use the throttle trigger on your transmitter to control the motor speed. Push forward for acceleration and pull back for braking/reverse.
3. **Braking:** The ESC features proportional braking. Adjust the maximum braking force and drag braking force settings via the programming card to suit your driving style and track conditions.

4. **Acceleration:** The acceleration curve can be adjusted in nine steps to provide a smoother or more aggressive power delivery.
5. **Power Off:** Always disconnect the battery from the ESC first, then turn off your transmitter.



Image 3.1: The Tissting 45A Brushless ESC in an operational context, highlighting its capability for good performance in challenging environments.

4. Maintenance

Regular maintenance helps ensure the longevity and reliable performance of your ESC.

- **Cleaning:** Due to its water and dust proof design, the ESC can withstand exposure to elements. However, it is recommended to clean the exterior with a soft brush or compressed air after use, especially in dirty or wet conditions, to prevent buildup around the cooling fan and heatsink.
- **Inspection:** Periodically inspect all wires and connectors for signs of wear, fraying, or corrosion. Ensure all connections are secure.

- **Storage:** When not in use, store the ESC in a dry, cool place away from direct sunlight and extreme temperatures. Disconnect the battery before storage.

5. Troubleshooting

If you encounter issues with your ESC, refer to the following common problems and solutions.

Problem	Possible Cause	Solution
Motor does not run or runs intermittently.	Loose connections, incorrect throttle calibration, motor lock guard activated.	Check all wiring connections. Re-calibrate throttle range. Inspect motor for obstructions.
ESC cuts off power during operation.	Low voltage cutoff, overheat protection activated.	Recharge or replace battery. Allow ESC to cool down. Check for proper ventilation.
No response from ESC.	No power, throttle signal loss, damaged ESC.	Ensure battery is connected and charged. Check receiver connection. Verify transmitter is on.
Motor runs in reverse.	Incorrect motor wire connection.	Swap any two of the three motor wires between the ESC and motor.

If the product does not work due to missing parts, shipping damage, or defects, please contact Amazon promptly for return or replacement. Most issues can be resolved with proper setup and troubleshooting.

6. Specifications

Detailed technical specifications for the Tissting 45A Brushless Electronic Speed Controller.

Feature	Specification
Item Type	RC Car Brushless ESC
Continuous Current	Fwd. 45A, Rev. 45A
Peak Current	Fwd. 135A, Rev. 135A
Resistive Value	0.0012Ω
Applicable Model	1:10 Road, Off Road, Buggy
Battery Compatibility	4-9 NiMH Battery, 2-3S Li Ion Battery
Motor Limit (2S LiPo / 6 cell NiMH)	On Road: 3650 size or smaller, <6000Kv; Off Road Buggy: 3656 size or <4000KV
Motor Limit (3S LiPo / 9 cell NiMH)	On Road: 3656 size or smaller, <4000KV; Off Road Buggy: 3656 size or <3000KV
BEC Output	5.85V 3A
Cooling Fan	Directly from battery, no adjustment required. Compatible with 2S and 3S Lipo.
Package Dimensions	5.91 x 2.76 x 1.97 inches
Item Weight	4.6 ounces

Feature	Specification
Model Number	Tisstingrkbw2h84ae
ASIN	B0DZVTFJZN

7. Warranty and Support

This product is covered by a return policy that allows for refund or replacement within 30 days of purchase. For any issues or defects, please contact Amazon customer service directly to initiate a return or replacement process.
For further assistance or product inquiries, you may visit the Tissting Store on Amazon.

Ask a question about this manual

Ask about setup, troubleshooting, compatibility, parts, safety, or missing instructions. Manuals+ will review the question and use this page's manual context to help answer it.

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Question

Example: How do I reset this device or fix this error?

Details

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