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> ZEZEFUFU 18A ESC and 11000KV Brushless Motor User Manual for 1/28 1/32 RC Cars

ZEZEFUFU 18A ESC and 1222 11000KV Brushless Motor

ZEZEFUFU 18A ESC and 11000KV Brushless Motor User Manual

Brand: ZEZEFUFU | **Model:** 18A ESC, 1222 11000KV Brushless Motor

1. INTRODUCTION

This manual provides essential instructions for the proper installation, operation, and maintenance of your ZEZEFUFU 18A Electronic Speed Controller (ESC) and 11000KV 2-Pole Brushless Motor. This system is designed for 1/28 and 1/32 scale RC cars and motorcycles, offering enhanced performance and reliability. Please read this manual thoroughly before use to ensure safe and optimal performance of your RC vehicle.

2. SAFETY PRECAUTIONS

- Always disconnect the battery from the ESC when not in use to prevent accidental operation.
- Ensure all connections are secure and correctly polarized before applying power. Incorrect connections can damage components.
- Operate RC vehicles in open areas, away from people, pets, and obstacles.
- The motor can become hot during operation. Avoid touching it immediately after use to prevent burns.
- This product is recommended for users aged 16 years and up. Adult supervision is advised for younger users.
- Keep the ESC and motor away from moisture and extreme temperatures, despite the ESC being waterproof.

3. PACKAGE CONTENTS

Verify that all items are present in your package:

- 1 Piece 11000KV Brushless Motor (Model: 1222)
- 1 Piece 18A Electronic Speed Controller (ESC)



Image 1: The ZEZEUFU 18A ESC and 11000KV Brushless Motor included in the package. The ESC is on the left with blue wires, and the motor is on the right with gold bullet connectors.

4. PRODUCT FEATURES

- **Waterproof 18A ESC:** Designed for reliable performance in various conditions.
- **1222 11000KV 2-Pole Brushless Motor:** High-speed motor for optimal power.
- **Enhanced Performance:** Features improved throttle response, strong acceleration, and precise throttle linearity.
- **Durable Construction:** Motor features CNC machined 6061 T6 billet aluminum heatsink for efficient heat dissipation.
- **Compatibility:** Suitable for 1/28 and 1/32 scale RC cars and motorcycles.

5. SPECIFICATIONS

Component	Specification
Motor Type	Brushless, 2-Pole

Component	Specification
Motor KV Rating	11000KV
Motor Size (Diameter x Length)	12mm x 22mm (0.47 x 0.87 inch)
Extension Shaft Length	6mm (0.24 inch)
Shaft Diameter	1.5mm (0.06 inch)
ESC Current	18A
BEC Output	5V/1A
LiPo Compatibility	2-4S LiPo (16.8V MAX)
Recommended Age	16 years and up
Material	Electronic Components, Aluminum



Image 2: Close-up view of the 11000KV Brushless Motor, showing the shaft and gold bullet connectors.



Image 3: Close-up view of the 18A Electronic Speed Controller (ESC), showing its specifications label.

6. SETUP AND INSTALLATION

Follow these steps for proper installation of the ESC and motor into your RC vehicle:

1. **Motor Installation:** Securely mount the 11000KV brushless motor into your RC vehicle's motor mount. Ensure proper gear mesh if applicable.
2. **ESC Mounting:** Mount the 18A ESC in a location that allows for good airflow and is protected from physical impact. Use double-sided tape or zip ties if necessary.
3. **Motor to ESC Connection:** Connect the three wires from the brushless motor to the three corresponding blue wires on the ESC using the 2.0mm bullet connectors. The order of connection may affect motor rotation direction; if the motor spins in the wrong direction, swap any two of the three motor wires.
4. **Receiver Connection:** Connect the small black RX plug from the ESC to the throttle channel (usually channel 2) on your RC receiver.
5. **Battery Connection:** Connect your LiPo battery (2-4S, 16.8V MAX) to the JST plug on the ESC. Ensure correct polarity (red to positive, black to negative).

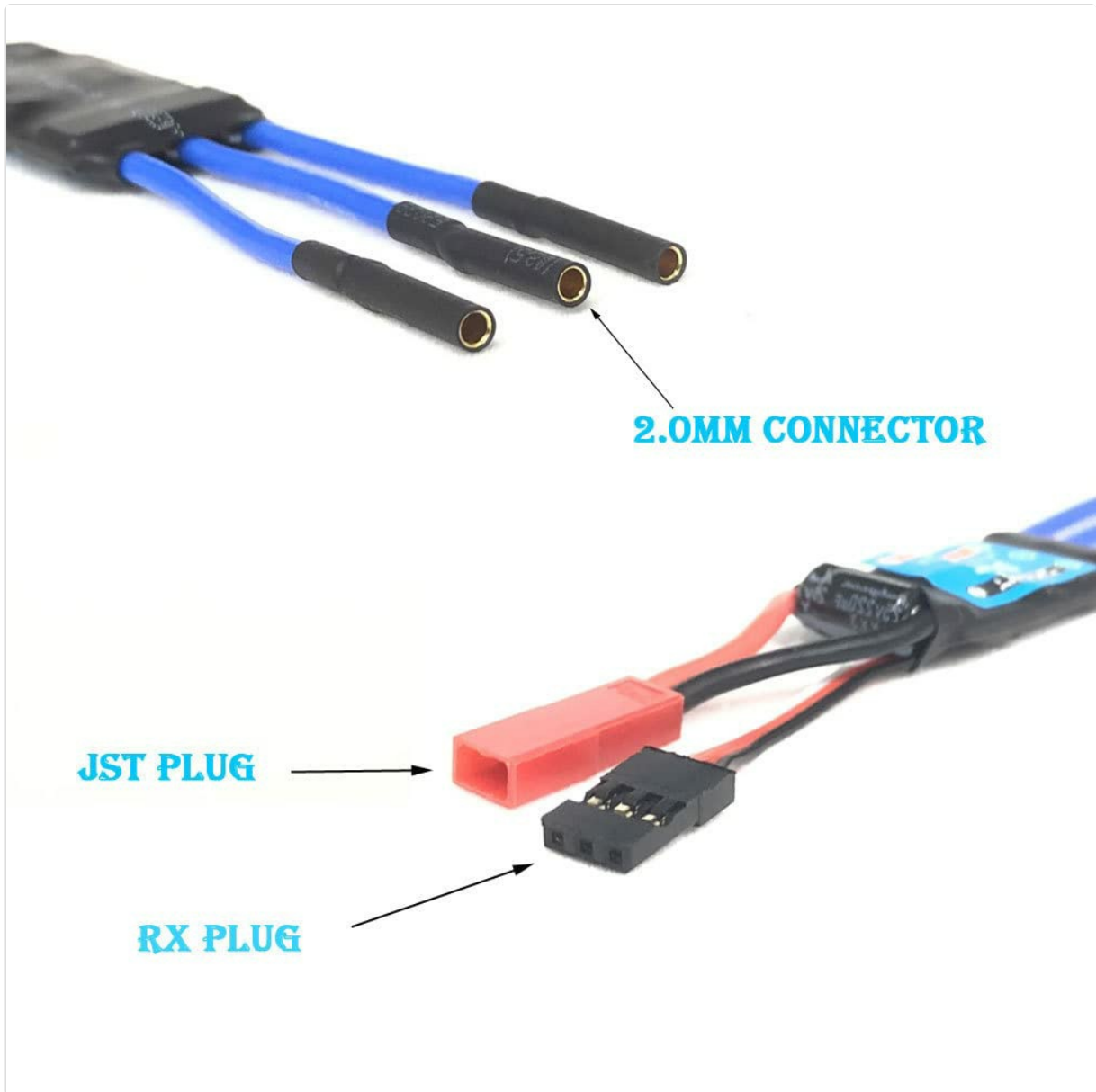


Image 4: Detailed view of the ESC and motor connectors. The ESC features a JST plug for battery connection, an RX plug for receiver connection, and 2.0mm bullet connectors for the motor.



Image 5: The 18A ESC and 11000KV Brushless Motor connected, ready for installation into an RC vehicle.

7. OPERATING INSTRUCTIONS

1. **Power On:** Turn on your RC transmitter first, then connect the battery to the ESC. The ESC will emit a series of tones indicating successful initialization.
2. **Throttle Calibration (if needed):** If the throttle response is not correct, you may need to calibrate the ESC with your transmitter. Refer to your transmitter's manual for specific calibration procedures. Generally, this involves holding full throttle on the transmitter, powering on the ESC, waiting for a tone, then moving to full brake, waiting for a tone, and finally returning to neutral.
3. **Operation:** Slowly increase throttle to begin movement. Observe the vehicle's behavior and adjust driving style as needed.
4. **Power Off:** Disconnect the battery from the ESC first, then turn off your RC transmitter.

8. MAINTENANCE

- **Cleaning:** Regularly clean the motor and ESC to remove dirt, dust, and debris. Use a soft brush or compressed air.
- **Inspection:** Periodically inspect all wires and connectors for signs of wear, damage, or loose

connections. Replace damaged components immediately.

- **Storage:** Store the ESC and motor in a dry, cool place when not in use. Disconnect batteries during storage.
- **Water Exposure:** While the ESC is waterproof, it is recommended to dry it thoroughly after exposure to water to prevent corrosion of connectors and other components.

9. TROUBLESHOOTING

Problem	Possible Cause	Solution
Motor not spinning / No response	<ul style="list-style-type: none">◦ Loose or incorrect wiring◦ Battery discharged◦ Transmitter/receiver not paired◦ ESC not calibrated	<ul style="list-style-type: none">◦ Check all connections (motor, receiver, battery).◦ Charge battery.◦ Ensure transmitter and receiver are properly bound.◦ Perform ESC throttle calibration.
Motor spins in wrong direction	Motor wire connection order is incorrect.	Swap any two of the three motor wires connected to the ESC.
Motor stutters or runs inconsistently	<ul style="list-style-type: none">◦ Loose motor connections◦ Damaged motor or ESC◦ Low battery voltage	<ul style="list-style-type: none">◦ Check motor wire connections.◦ Inspect motor and ESC for visible damage.◦ Charge or replace battery.
ESC gets excessively hot	<ul style="list-style-type: none">◦ Overgeared vehicle◦ Excessive load on motor◦ Poor ventilation	<ul style="list-style-type: none">◦ Reduce pinion gear size or increase spur gear size.◦ Ensure vehicle moves freely without binding.◦ Improve airflow around the ESC.

10. WARRANTY AND SUPPORT

For warranty information or technical support, please contact your retailer or the manufacturer directly. Keep your purchase receipt as proof of purchase. Please note that damage caused by improper installation, misuse, or unauthorized modifications is not covered under warranty.

For further assistance, you may refer to the official ZEZEUFU website or contact their customer service department.