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Hobbywing 38020436

User Manual

HOBBYWING QUICRUN MINI24 COMBO OUTER 1621SL 3500KV

Model: 38020436

1. Product Overview

The HOBBYWING Quicrun MINI24 Combo is an integrated electronic speed controller (ESC) and motor system designed for small-scale crawling vehicles. This combo features the QuicRun WP mini24 ESC and the Outer 1621SL 3500KV motor, offering reliable performance and smooth operation for 1/16th, 1/18th, and 1/24th scale models.
The QuicRun WP mini24 ESC supports both sensorless brushless motors and brushed motors, ensuring broad compatibility. Its fully waterproof design allows for operation in various conditions. It includes a powerful internal switch-mode BEC with adjustable voltage (6V/7.4V) to support high torque and high voltage servos. An independent programming port simplifies connection to LED or LCD program cards for easy configuration. The system is designed for easy installation with PH 2.0-3PIN female connectors for the motor and PH 2.0-2PIN female connectors for input, facilitating plug-and-play use with compatible motors and models like the SCX24.



Figure 1: The HOBBYWING Quicrun MINI24 Combo, featuring the QuicRun WP mini24 ESC and the Outer 1621SL 3500KV motor, ready for installation in small-scale RC vehicles.

2. Safety Information

Please read this user manual thoroughly before using the HOBBYWING Quicrun MINI24 Combo. Improper use can lead to damage to the product and associated equipment. Adhere strictly to the specified operating procedures.

- Ensure all connections are secure and correct before powering on the system.
- Do not operate the product in conditions beyond its specified limits (e.g., voltage, current, temperature).
- Avoid unauthorized modifications to the product, as this may void the warranty and pose safety risks.
- Keep the product away from water and moisture unless explicitly stated as waterproof. (Note: This product is waterproof, but ensure connectors are dry before use).
- Store the product in a dry, cool place away from direct sunlight and extreme temperatures.
- This product is recommended for users aged 4 years and up. Adult supervision is advised for younger users.

3. What's in the Box

Upon opening the package, verify that all components are present:

- (1) Quicrun Mini24 ESC

- (1) Quicrun Outer 1621SL Motor
- (1) User Manual

4. Specifications

Feature	Detail
Model Number	38020436
Applicable Motors	QuicRun Outer 1621, mainstream 1212, 1806 external rotor and sensor-less brushless motors; 050, 130, 180 brushed motors.
Cont./Peak Current	25A/60A
Motor Type	Sensor-less brushless motor, Sensored brushless motor (only works in sensor-less mode), and brushed motor
LiPo Cells	2-3S Lipo
BEC Output	5-7.4V Adjustable, Continuous Current of 5A (Switch-mode)
Dimensions (L x W x H)	28 x 17.8 x 13mm (ESC)
Weight	13.5g (ESC)
Programming Port	Independent programming port
Product Dimensions (Package)	3.6 x 2.8 x 2.7 inches
Item Weight (Package)	5.3 ounces
Country of Origin	China
Manufacturer Recommended Age	4 years and up

5. Setup and Installation

Follow these steps for proper installation of your Quicrun MINI24 Combo:

1. **Mounting the Motor:** Securely mount the Quicrun Outer 1621SL motor to your vehicle's motor mount. Ensure proper gear mesh between the motor pinion and the vehicle's spur gear.
2. **Mounting the ESC:** Find a suitable location within your vehicle's chassis to mount the Quicrun Mini24 ESC. Use double-sided tape or other secure methods to prevent movement during operation. Ensure adequate airflow if possible, though the unit is compact.

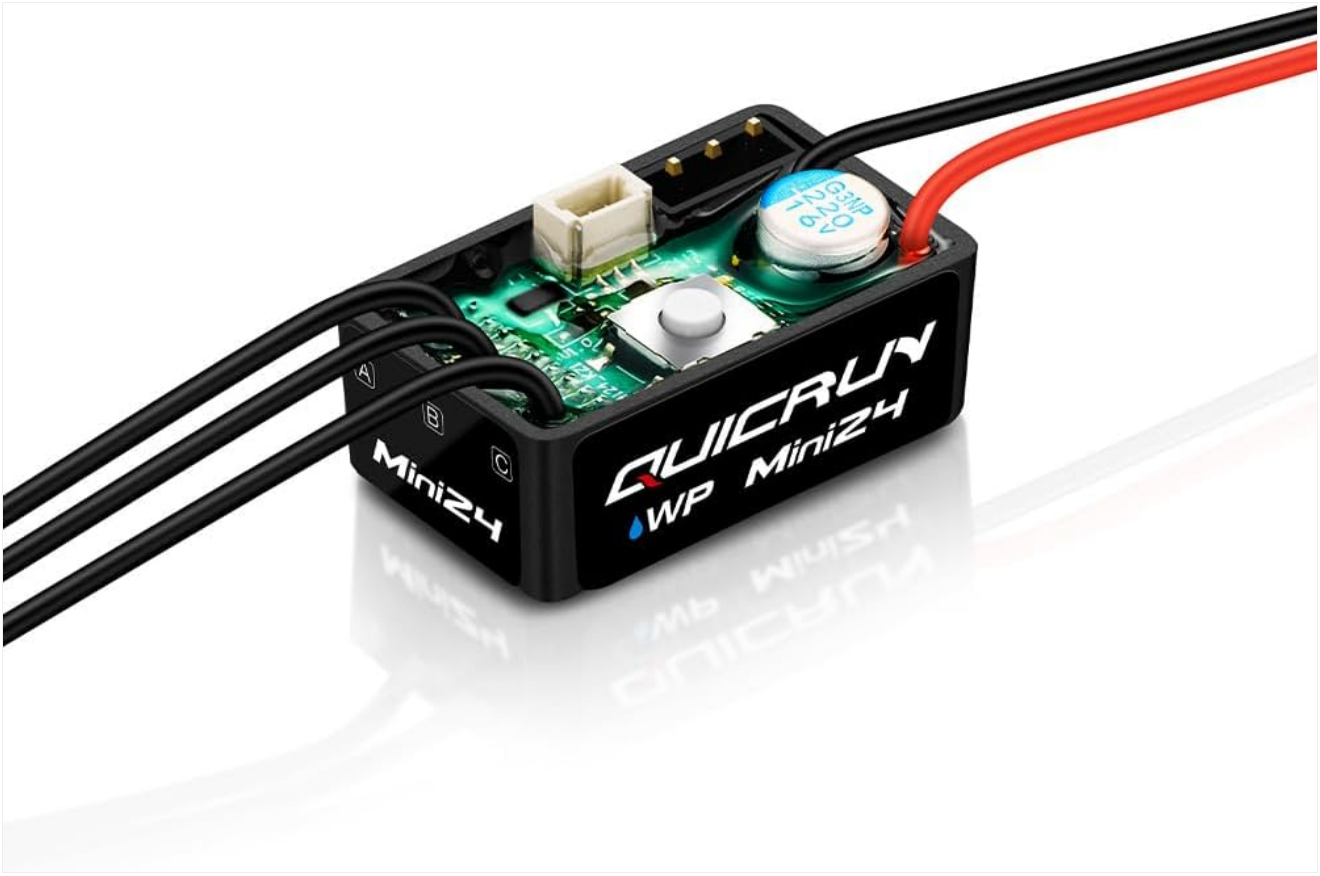


Figure 2: Close-up of the Quicrun Mini24 ESC, showing its compact size and connection points.

3. **Connecting the Motor to ESC:** The QuicRun WP Mini24 uses a PH 2.0-3PIN female connector for the motor. Connect the motor's male PH 2.0-3PIN connector to the corresponding port on the ESC. Ensure the connection is firm.
4. **Connecting the Battery:** The input end of the ESC uses a PH 2.0-2PIN female connector. Connect your 2-3S LiPo battery (with a compatible male PH 2.0-2PIN connector) to this port. Verify correct polarity before connecting.
5. **Connecting to Receiver:** Connect the signal cable from the ESC to the throttle channel (usually Channel 2) on your RC receiver.
6. **Initial Calibration (if required):** Refer to the detailed instructions in the included manual for ESC calibration with your specific radio system. This typically involves setting the neutral, full throttle, and full brake points.

6. Operating Instructions

Once installed and calibrated, the Quicrun MINI24 Combo is ready for operation:

- **Power On:** Turn on your radio transmitter first, then connect the battery to the ESC. The ESC will emit a series of beeps indicating successful power-up and cell count detection.
- **Driving:** Use your transmitter's throttle stick to control the vehicle's speed and direction. The ESC provides smooth throttle response and precise control, especially at low speeds, which is ideal for crawling.
- **Programming:** The ESC features an independent programming port. You can connect an LED program card or an LCD Pro program box (sold separately) to adjust various parameters such as cut-off voltage, drag brake, start mode, and more. Refer to the programming device's manual for detailed instructions.



Figure 3: Top view of the Quicrun Mini24 ESC, highlighting the independent programming port for easy configuration.

- **Power Off:** Disconnect the battery from the ESC first, then turn off your radio transmitter.

7. Maintenance

Regular maintenance ensures the longevity and optimal performance of your HOBBYWING Quicrun MINI24 Combo:

- **Cleaning:** After each use, especially in dusty or dirty conditions, gently clean the ESC and motor. Use a soft brush or compressed air to remove debris. While the ESC is waterproof, avoid submerging it unnecessarily and ensure connectors are dry.
- **Inspecting Connections:** Periodically check all electrical connections (motor wires, battery connectors, receiver cable) for signs of wear, corrosion, or looseness. Secure any loose connections.
- **Motor Inspection:** Check the motor's bearings for smooth rotation. If the motor feels rough, it may indicate worn bearings that need replacement.
- **Storage:** When not in use for extended periods, disconnect the battery from the ESC. Store the combo in a dry, cool environment.

8. Troubleshooting

If you encounter issues with your Quicrun MINI24 Combo, refer to the following common troubleshooting steps:

Problem	Possible Cause	Solution
Motor not responding / No power	◦ Battery not connected or discharged. ◦ Loose or incorrect wiring. ◦ ESC not calibrated.	◦ Check battery connection and charge level. ◦ Verify all connections (motor, battery, receiver) are secure and correct. ◦ Perform ESC calibration as per Section 5.
Motor stutters or runs rough	◦ Incorrect motor type setting (if applicable). ◦ Damaged motor wires or connectors. ◦ Motor or ESC overheating.	◦ Ensure ESC is set to the correct motor type (brushless sensorless or brushed). ◦ Inspect motor wires and connectors for damage. ◦ Allow components to cool down. Check for excessive load or improper gearing.
Vehicle moves in wrong direction	◦ Motor wire polarity reversed (for brushed motors). ◦ Transmitter throttle reverse setting.	◦ Reverse two of the three motor wires (for brushless motors) or reverse the polarity for brushed motors. ◦ Adjust the throttle reverse setting on your radio transmitter.

ESC beeps continuously	◦ Low battery voltage. ◦ ESC error code.	◦ Charge or replace the battery. ◦ Consult the full HOBBYWING manual for specific beep codes and their meanings.

For more detailed troubleshooting or issues not listed here, please contact HOBBYWING customer support or refer to the comprehensive manual available on the official HOBBYWING website.

9. Warranty and Support

For information regarding the warranty period, terms, and conditions for your HOBBYWING Quicrun MINI24 Combo, please refer to the warranty card included with your product or visit the official HOBBYWING website. HOBBYWING Technology provides customer support for product inquiries, technical assistance, and warranty claims.
Manufacturer: Hobbywing Technology
Contact Information: Please visit the official HOBBYWING website for the most up-to-date contact details for technical support and service centers in your region.

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