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## Womaqu 14401-36-QHCA

# Womaqu 45A Smart 2S/3S Brushless Motor ESC User Manual

Model: 14401-36-QHCA

## 1. INTRODUCTION

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Thank you for choosing the Womaqu 45A Smart 2S/3S Brushless Motor Electric Speed Controller (ESC). This high-performance ESC is designed to provide reliable and efficient power control for your remote control vehicles. Please read this manual thoroughly before installation and operation to ensure proper use and maximize the lifespan of your product.

### What's in the Box

- Womaqu 45A Smart 2S/3S Brushless Motor ESC

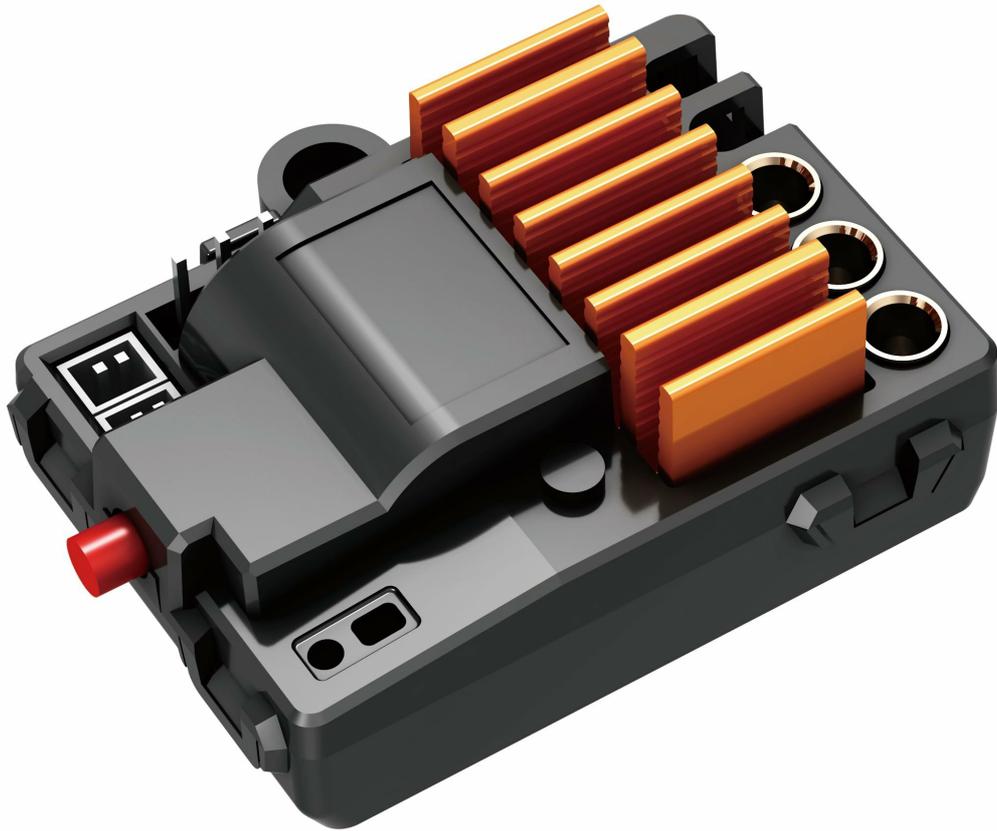


Image 1.1: The Womaqu 45A Smart 2S/3S Brushless Motor ESC unit, featuring its compact design and heat sink fins.

## 2. KEY FEATURES

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- **Parts Number:** 14401-36-QHUS
- **Integrated Control:** 45A brushless ESC/receiver integrated control system.
- **Battery Compatibility:** Supports both 2S and 3S LiPo batteries.
- **Durability:** Features a waterproof circuit board for enhanced protection in various conditions.



Image 2.1: The 45A brushless ESC/receiver integrated control unit shown installed within an RC car chassis, highlighting its compact placement and connections.

### 3. COMPATIBILITY

This Electric Speed Controller is specifically designed for use with the following Womaqu RC car models:

- Model 14431
- Model 14412
- Model 14413
- Model 14411

Ensure your RC vehicle is one of the compatible models listed above for optimal performance and safety.

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Image 3.1: A visual compatibility chart indicating which Womaqu RC car models are compatible with this ESC, marked with a checkmark.

## 4. SETUP GUIDE

Follow these steps to properly install and connect your Womaqu ESC:

- Mounting the ESC:** Securely mount the ESC in the designated area within your RC car chassis. Ensure it is protected from excessive vibrations and direct impacts. Use double-sided tape or mounting screws if provided.
- Connecting to Motor:** Connect the three motor wires from the ESC to the corresponding wires on your brushless motor. The order of connection may affect motor rotation direction; if the motor spins in the wrong direction, swap any two of the three wires.
- Connecting to Receiver:** Plug the ESC's receiver cable into the throttle channel (usually channel 2) of your RC receiver. Ensure the polarity is correct (signal, positive, negative).
- Connecting Battery:** Connect your 2S or 3S LiPo battery to the battery connector on the ESC. Ensure the battery is fully charged and the connector type matches. Always double-check polarity before connecting.
- Initial Calibration (if needed):** Refer to your RC car's specific manual or the ESC's detailed

programming guide for throttle range calibration. This ensures the ESC correctly interprets the throttle signals from your transmitter.

**Safety Warning: Always disconnect the battery from the ESC when not in use to prevent accidental operation and battery discharge. Ensure all connections are secure before powering on.**

## 5. OPERATING INSTRUCTIONS

Once the ESC is properly installed and calibrated, you can begin operating your RC vehicle. The ESC manages the power delivery to the brushless motor based on your throttle input from the transmitter.

### Basic Operation

- **Power On:** Turn on your RC transmitter first, then connect the battery to the ESC. The ESC will typically emit a series of beeps indicating successful power-up and battery cell count.
- **Throttle Control:** Use the throttle trigger on your transmitter to control the speed and direction of the RC car. Forward motion is achieved by pushing the trigger, and reverse by pulling it (after a brief stop, depending on ESC mode).
- **Steering Control:** Use the steering wheel on your transmitter to control the direction of the front wheels.
- **Power Off:** Always disconnect the battery from the ESC first, then turn off your RC transmitter.



Image 5.1: An RC car in motion on a dirt surface, demonstrating typical operating conditions for the ESC.

## 6. MAINTENANCE

Regular maintenance will help ensure the longevity and optimal performance of your ESC.

- **Cleaning:** After each use, especially in dusty or dirty environments, gently clean the ESC with a soft brush or compressed air to remove debris. Avoid using liquids unless specifically designed for electronics.
- **Inspection:** Periodically inspect all wires and connectors for signs of wear, fraying, or corrosion. Ensure all connections are secure.
- **Storage:** Store the ESC in a cool, dry place away from direct sunlight and extreme temperatures. Disconnect it from the battery when storing for extended periods.
- **Waterproof Feature:** While the circuit board is waterproof, it is recommended to avoid prolonged submersion or exposure to highly corrosive liquids to prevent damage to connectors or other components. Always dry the ESC thoroughly after exposure to moisture.

## 7. TROUBLESHOOTING

If you encounter issues with your ESC, refer to the table below for common problems and their solutions.

Problem	Possible Cause	Solution
ESC does not power on / No response	Battery not connected or discharged; Loose connections; Faulty ESC.	Check battery connection and charge level; Secure all wires; If problem persists, contact support.

Problem	Possible Cause	Solution
Motor not spinning or erratic behavior	Incorrect motor wire connection; ESC not calibrated; Receiver signal issue; Motor fault.	Swap two motor wires; Perform throttle calibration; Check receiver and transmitter connection; Inspect motor.
ESC overheating	Overloading (e.g., too large motor, incorrect gearing); Insufficient airflow; Short circuit.	Reduce load; Ensure proper ventilation around ESC; Check for short circuits; Allow to cool down.
No reverse function	ESC mode set to forward-only; Calibration issue.	Check ESC programming for reverse mode setting; Re-calibrate throttle.

## 8. TECHNICAL SPECIFICATIONS

Specification	Value
Product Dimensions	1.69 x 1.69 x 1.45 inches
Item Model Number	14401-36-QHCA
Manufacturer	Womaqu
ASIN	B0DS91KWT5
Weight	2.82 ounces
Speed (Associated RC Car)	Up to 70 Kilometers per Hour
Voltage Compatibility	11.1 Volts (3S LiPo)
Horsepower (Associated RC Car)	0.4 hp

## 9. WARRANTY AND SUPPORT

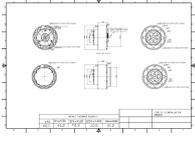
Womaqu stands behind the quality of its products. For specific warranty terms and conditions, please refer to the documentation included with your purchase or visit the official Womaqu brand store. In most cases, warranty covers manufacturing defects under normal use.

### Customer Support

If you have any questions, require technical assistance, or need to report an issue, please contact Womaqu customer support through the retailer's platform or the official Womaqu brand store. Provide your product model number (14401-36-QHCA) and a detailed description of your inquiry for faster service.

Visit the [Womaqu Store on Amazon](#) for more information and support resources.

## Related Documents - 14401-36-QHCA

	<p><a href="#">Watersnake Advance Brushless Motor User Manual: Installation, Operation &amp; Maintenance</a></p> <p>Comprehensive user manual for the Watersnake Advance Brushless electric trolling motor (SWS 70/36). Covers installation, battery requirements, operation, maintenance, and troubleshooting for optimal performance.</p>
	<p><a href="#">CWM6-36-15 (374) Exploded View and Spare Parts List</a></p> <p>Detailed exploded view and comprehensive spare parts list for the CWM6-36-15 (374) model, including part codes, names, and quantities. Essential for service and maintenance.</p>
	<p><a href="#">Bosch AdvancedRotak Lawn Mower - Safety Instructions and Model Information</a></p> <p>Safety instructions and overview for Bosch AdvancedRotak lawn mowers, covering models 36-650 through 36-950. Includes important usage and safety guidelines.</p>
	<p><a href="#">Bosch AdvancedRotak Rasenmäher Bedienungsanleitung</a></p> <p>Umfassende Bedienungsanleitung für den Bosch AdvancedRotak Rasenmäher, einschließlich Sicherheitshinweisen, Bedienung, Wartung und technischen Daten für Modelle wie 36-650 bis 36-950.</p>
	<p><a href="#">Bosch UniversalRotak Lawn Mower Manual</a></p> <p>Comprehensive user manual for the Bosch UniversalRotak lawn mower series, including models 36-550, 36-555, 36-560, 36-590, and 36-670. This guide provides essential safety instructions, operating procedures, maintenance tips, and troubleshooting advice for optimal use.</p>
	<p><a href="#">GIM8115-36 Installation Drawing and Specifications</a></p> <p>Detailed installation drawing and default tolerance specifications for the SteadyWin GIM8115-36 Planetary Reducer Servo Motor.</p>