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## CUIPPWRJ 3536 1200KV

# CUIPPWRJ 3536 1200KV Brushless Motor Instruction Manual

Model: 3536 1200KV

## INTRODUCTION

This manual provides essential information for the proper installation, operation, and maintenance of your CUIPPWRJ 3536 1200KV Brushless Motor. Designed for RC racing drones, fixed-wing aircraft, quadcopters, airplanes, and gliders, this motor offers reliable performance. Please read this manual thoroughly before use to ensure safe and optimal operation.

## PRODUCT OVERVIEW

The CUIPPWRJ 3536 1200KV Brushless Motor is engineered for enthusiasts seeking enhanced flight performance and efficiency in various RC applications.

### Key Features:

- Powerful performance suitable for RC racing drones and quadcopters.
- 1200KV rating for efficient operation with 2-4S batteries.
- Remarkable load capacity of up to 1580g, supporting stable flight with various setups.
- Versatile application for fixed-wing airplanes and gliders.
- User-friendly design for straightforward installation.

### Package Contents:

- 1 x 3536 1200KV Brushless Motor
- 1 x Motor Accessories (propeller adapter, mounting plate, screws, washer)



Image: The CUIPPWRJ 3536 1200KV Brushless Motor shown with its included accessories, including the motor itself, a propeller adapter, a cross-shaped mounting plate, a washer, and several small screws.

## SPECIFICATIONS

Parameter	Value
Model	D3536 1200KV Motor
KV (RPM/Volt)	1200KV
Cell Lipo Compatibility	2-4S
Suggested Propeller	10 x 6
Voltage	11.1V (Nominal)
Load Current	35A
Pull (Thrust)	1580g
Power	388W
Efficiency	4.1 g/W
Length	67.3mm

Parameter	Value
Width	34.7mm
Shaft Diameter	6mm
Item Weight	111g/pcs

## SETUP AND INSTALLATION

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Proper installation is crucial for the performance and longevity of your brushless motor. Always ensure your RC model's frame and components are compatible with the motor's dimensions and power requirements.

### 1. Mounting the Motor:

- Attach the included cross-shaped mounting plate to the motor using the provided small screws.
- Secure the motor assembly to your RC model's motor mount using appropriate screws (not always included, depending on the frame). Ensure the motor is firmly attached and there is no wobble.

### 2. Propeller Installation:

- Slide the propeller onto the motor shaft, followed by the propeller adapter and washer.
- Tighten the propeller nut securely. Ensure the propeller is balanced and installed in the correct orientation for thrust.
- *Recommended Propeller:* Use a 10x6 propeller for optimal performance with this motor.

### 3. Electrical Connections:

- Connect the three motor wires to your Electronic Speed Controller (ESC). The order of connection may affect motor rotation direction. If the motor spins in the wrong direction, swap any two of the three wires.
- Ensure all connections are secure and properly insulated to prevent short circuits.
- *Battery Compatibility:* This motor is compatible with 2-4S LiPo batteries. Always use an ESC that matches the motor's current rating (35A) and battery voltage range.

## OPERATING INSTRUCTIONS

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Before operating your RC model, perform a thorough pre-flight check.

### 1. Pre-Flight Check:

- Verify all connections are secure and free from damage.
- Ensure the propeller is tightly secured and undamaged.
- Check battery charge level.
- Confirm correct motor rotation direction. If incorrect, adjust by swapping two motor wires.

### 2. Initial Power-Up:

- Connect the battery to the ESC. Listen for the ESC's initialization tones.
- Slowly increase throttle to ensure smooth motor startup and operation.

### 3. During Operation:

- Monitor motor temperature. Excessive heat can indicate an issue (e.g., incorrect propeller size, over-gearing, or ESC settings).
- Avoid prolonged operation at maximum throttle if not necessary, as this can reduce motor lifespan.

## MAINTENANCE

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

- **Cleaning:** Periodically clean the motor to remove dust, dirt, and debris, especially from the cooling fins and bearings. Use compressed air or a soft brush.
- **Bearing Inspection:** Check motor bearings for smooth operation. If you notice any grinding or excessive play, consider replacing the bearings.
- **Wire Inspection:** Regularly inspect motor wires and connections for fraying, cuts, or loose solder joints. Repair or replace as necessary.
- **Shaft Check:** Ensure the motor shaft is straight and free from bends or damage.
- **Storage:** Store the motor in a clean, dry environment away from extreme temperatures and direct sunlight.

## TROUBLESHOOTING

If you encounter issues with your motor, refer to the following common problems and solutions:

Problem	Possible Cause	Solution
Motor does not spin or stutters	Loose connections, faulty ESC, damaged motor wires, incorrect ESC calibration.	Check all wire connections. Recalibrate ESC. Inspect motor wires for damage. Test with a different ESC if possible.
Motor spins in wrong direction	Incorrect motor wire connection order.	Swap any two of the three motor wires connected to the ESC.
Motor gets excessively hot	Over-propped, over-gearred, ESC timing too high, insufficient cooling, damaged bearings.	Use a smaller propeller. Check gearing. Adjust ESC timing. Ensure adequate airflow. Inspect and replace bearings if necessary.
Reduced power or efficiency	Damaged propeller, low battery voltage, worn motor bearings, partially shorted winding.	Replace damaged propeller. Charge battery fully. Inspect and replace bearings. If winding is suspected, motor replacement may be required.

## SAFETY INFORMATION

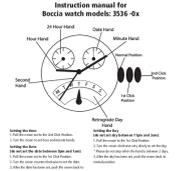
Operating RC motors involves potential risks. Adhere to the following safety guidelines:

- Always disconnect the battery from the ESC before handling the motor or propeller.
- Keep hands, face, and loose clothing away from spinning propellers. Propellers can cause severe injury.
- Ensure adequate ventilation during operation to prevent overheating of the motor and ESC.
- Use appropriate safety gear, such as eye protection, when working with RC components.
- Never operate the motor in a confined space or near bystanders.
- Always use batteries and ESCs that are compatible with the motor's specifications.
- If the motor or any component is damaged, do not operate it. Replace damaged parts immediately.

## WARRANTY AND SUPPORT

For warranty information or technical support regarding your CUIPPWRJ 3536 1200KV Brushless Motor, please refer to the retailer or manufacturer's official website where the product was purchased. Keep your proof of purchase for any warranty claims. For general inquiries or further assistance, you may visit the [CUIPPWRJ brand page on Amazon](#).

## Related Documents - 3536 1200KV

	<p><a href="#">TBS CAIPIRINHA II Mini FPV Wing - Assembly and Flight Manual</a></p> <p>Comprehensive guide for the TBS CAIPIRINHA II Mini FPV Wing, covering specifications, parts list, setup recommendations, assembly instructions, electronics installation, flight tips, and good practices. Learn how to build and fly this versatile FPV aircraft.</p>
	<p><a href="#">Arrows Hobby Bigfoot 1300mm RC Aircraft Operating Manual &amp; Assembly Guide</a></p> <p>Detailed operating manual for the Arrows Hobby Bigfoot 1300mm remote-controlled aircraft. Learn about assembly, setup, pre-flight checks, flight tips, maintenance, and troubleshooting for this STOL-capable bush plane.</p>
	<p><a href="#">FMS 1400mm Kingfisher RC Airplane Instruction Manual</a></p> <p>Comprehensive instruction manual for the FMS 1400mm Kingfisher RC airplane. Learn about assembly, setup, flying, maintenance, and troubleshooting for this versatile EPO trainer aircraft.</p>
	<p><a href="#">Boccia Watch Models 3536-0x Instruction Manual</a></p> <p>Comprehensive instruction manual for Boccia watch models 3536-0x, detailing how to set the time, date, and day, along with a diagram of watch components and crown positions.</p>
	<p><a href="#">KAVAN PRO Brushless Motors - User Manual and Specifications</a></p> <p>Comprehensive guide to KAVAN PRO brushless outrunner motors for model aircraft, covering installation, selection, maintenance, safety, specifications, and technical data. Includes model details and compatibility information.</p>
	<p><a href="#">Durafly Carbon Arcus F3A Biplane: Instruction Manual &amp; Assembly Guide</a></p> <p>Comprehensive instruction manual for the Durafly Carbon Arcus F3A biplane. Learn about specifications, safety, general assembly, CG setting, flying tips, recommended accessories, and spare parts. Ideal for RC hobbyists.</p>

