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**NA ZRCAN-B076CJRZBL**

# NA F130 DC 1.5V 12000RPM Mini Electric Motor with Blue Propeller for RC Model - Instruction Manual

## PRODUCT OVERVIEW

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This manual provides essential information for the safe and effective use of the NA F130 DC 1.5V 12000RPM Mini Electric Motor with Blue Propeller. This compact and powerful motor is designed for various RC model applications, offering high rotation speed and efficient power delivery.



Figure 1: The NA F130 DC 1.5V 12000RPM Mini Electric Motor with the blue propeller already attached, viewed from the front.

## KEY FEATURES

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- **Material:** Constructed from durable plastic, metal, and electronic components, ensuring longevity and reliable performance.
- **Compact Design:** Lightweight at only 20 grams, ideal for small-scale RC models.
- **Rated Voltage:** Operates efficiently at DC 1.5V.
- **High Speed Output:** Delivers a powerful 12,000 RPM for dynamic movement.
- **Propeller Included:** Comes with a blue 4-blade propeller, featuring a 56mm rotation diameter.
- **Motor Dimensions:** Measures 25mm (L) x 20mm (W) x 15mm (H).
- **Shaft Diameter:** Motor shaft has a 2mm diameter, compatible with the included propeller.

## SETUP AND ASSEMBLY

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Follow these steps to properly set up your mini electric motor and propeller.

1. **Unpack Components:** Carefully remove the motor and propeller from their packaging. Ensure all parts are present: one F130 DC motor and one blue 4-blade propeller.



Figure 2: The mini electric motor and the blue propeller shown as separate components before assembly.

2. **Attach Propeller:** Align the central hole of the blue propeller with the shaft of the motor. Gently push the propeller onto the motor shaft until it is securely seated. Ensure it is firm but do not apply excessive force to avoid damage.



Figure 3: An angled view showing the motor with the propeller attached, highlighting the connection point and electrical terminals.

3. **Connect Power:** Connect the motor's terminals to a DC 1.5V power source. Observe polarity if specific direction of rotation is required for your application. The motor is designed for low voltage operation.



Figure 4: A top-down view of the assembled motor and propeller, showing the compact design.

## OPERATING INSTRUCTIONS

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This motor is designed for simple operation in various RC and DIY projects.

- **Power Source:** Use a stable DC 1.5V power supply. Exceeding this voltage may damage the motor.
- **Current Draw:** Ensure your power source can provide sufficient current for the motor's operation.
- **Rotation:** Upon applying power, the motor will rotate the propeller at approximately 12,000 RPM. The direction of rotation can be reversed by changing the polarity of the power connection.
- **Safety:** Keep fingers and loose objects away from the rotating propeller during operation to prevent injury or damage.

## MAINTENANCE

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Proper maintenance ensures the longevity and optimal performance of your motor.

- **Cleaning:** Periodically clean the motor and propeller to remove dust, dirt, or debris that may accumulate. Use a soft,

dry cloth. Do not use liquids or solvents.

- **Inspection:** Regularly inspect the motor shaft and propeller for any signs of wear, damage, or looseness. Ensure the propeller is securely attached.
- **Storage:** When not in use, store the motor in a dry, cool place, away from direct sunlight and excessive humidity.
- **Avoid Overloading:** Do not subject the motor to loads that exceed its rated capacity, as this can lead to overheating and premature failure.

## TROUBLESHOOTING

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

Problem	Possible Cause	Solution
Motor does not spin.	No power, incorrect voltage, loose connections, or motor damage.	Check power supply (ensure 1.5V DC). Verify all connections are secure. Inspect motor for visible damage.
Motor spins slowly or weakly.	Insufficient power, low battery, excessive load, or internal friction.	Ensure power source provides adequate current. Replace or recharge batteries. Reduce load on the motor. Clean any debris obstructing rotation.
Motor makes unusual noise.	Propeller imbalance, foreign object, or internal wear.	Check if the propeller is securely attached and balanced. Remove any foreign objects. If noise persists, the motor may be worn and require replacement.
Motor overheats.	Excessive load, prolonged operation, or insufficient ventilation.	Reduce the load on the motor. Allow the motor to cool down between uses. Ensure adequate airflow around the motor.

## SPECIFICATIONS

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Detailed technical specifications for the NA F130 DC 1.5V 12000RPM Mini Electric Motor.

**Model:** F130

**Rated Voltage:** DC 1.5 Volts

**Output Speed:** 12,000 RPM (revolutions per minute)

**Motor Dimensions (L x W x H):** 25 mm x 20 mm x 15 mm

**Motor Shaft Diameter:** 2 mm

**Propeller Type:** 4-blade, Blue

**Propeller Rotation Diameter:** 56 mm

**Material:** Plastic, Metal, Electronic Components

**Net Weight:** 20 Grams

**Manufacturer Reference:** ZRCAN-B076CJRZBL

**ASIN:** B0848TYXLY

## WARRANTY AND SUPPORT

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Information regarding product warranty and customer support is not provided within this manual. Please refer to your purchase documentation or contact the seller directly for details on warranty coverage and technical assistance.

