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## E-flite EFLM480BL



# E-flite 480 BL Outrunner Motor 960Kv (EFLM480BL) Instruction Manual

### IMPORTANT SAFETY WARNINGS

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**WARNING:** Read the ENTIRE instruction manual to become familiar with the features of the product before operating. Failure to operate the product correctly can result in damage to the product, personal property, and cause serious injury. This is a sophisticated hobby product. It must be operated with caution and common sense and requires some basic mechanical ability. Failure to operate this Product in a safe and responsible manner could result in injury or damage to the product or other property. This product is not intended for use by children without direct adult supervision. Do not use with incompatible components or alter this product in any way outside of the instructions provided by Horizon Hobby, LLC. The product manual contains instructions for safety, operation, and maintenance. It is essential to read and follow all the instructions and warnings in the manual, prior to assembly, setup or use, in order to operate correctly and avoid damage or serious injury.

### PRODUCT OVERVIEW

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The E-flite 480 BL Outrunner Motor, 960Kv, model EFLM480BL, is a high-performance brushless motor designed for remote-controlled aircraft. This 14-pole outrunner motor provides efficient power for various RC airplane applications.



Image: The E-flite 480 BL Outrunner Motor 960Kv (EFLM480BL).

### What's Included:

- 1x E-flite 480 Brushless Outrunner Motor, 960Kv

### SETUP AND INSTALLATION

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Proper installation is crucial for the performance and longevity of your motor. Follow these general guidelines:

1. **Mounting the Motor:** Securely attach the motor to your aircraft's motor mount using appropriate screws. Ensure the motor is aligned correctly and that the mounting screws do not interfere with the motor windings.
2. **Connecting to Electronic Speed Controller (ESC):** Connect the three motor wires to the corresponding wires on your ESC. The order of connection may affect the motor's rotation direction. If the motor spins in the wrong direction, swap any two of the three motor wires.
3. **Propeller Installation:** Install the propeller onto the motor shaft, ensuring it is balanced and securely fastened. Always use the recommended propeller size for your aircraft and motor combination. Double-check that the propeller is installed in the correct orientation for thrust.

4. **Wiring Management:** Route all wires neatly and secure them to prevent them from interfering with moving parts or being damaged during flight.

## OPERATING INSTRUCTIONS

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Adhere to these operating practices for optimal performance and safety:

1. **Pre-Flight Checks:** Before each flight, inspect all motor connections, propeller security, and overall aircraft integrity. Ensure batteries are fully charged and correctly connected.
2. **Battery Compatibility:** Use only LiPo batteries that are compatible with your ESC and motor's voltage and current requirements. Refer to your aircraft's manual for recommended battery specifications.
3. **ESC Programming:** Ensure your Electronic Speed Controller (ESC) is properly programmed for a brushless outrunner motor. Incorrect ESC settings can lead to poor performance or motor damage.
4. **Throttle Management:** Apply throttle smoothly. Avoid sudden, full-throttle bursts, especially during takeoff, to prevent excessive strain on the motor and battery.

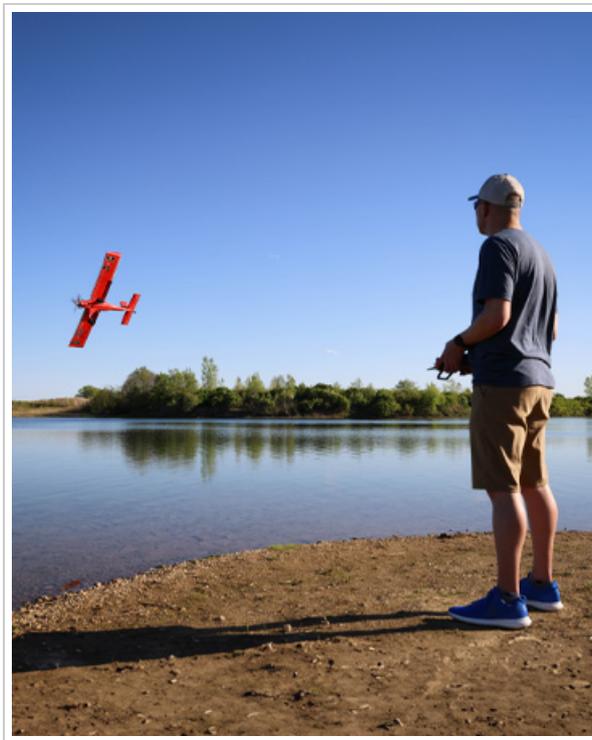


Image: A person operating an RC airplane, demonstrating typical use of such a motor.

## MAINTENANCE

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Regular maintenance helps extend the life of your E-flite motor:

- **Cleaning:** Keep the motor free from dirt, dust, and debris. Use a soft brush or compressed air to clean the motor, especially around the bearings and cooling vents.
- **Inspection:** Periodically inspect the motor for any signs of wear, damage, or loose connections. Check the motor shaft for bends and the propeller adapter for tightness.
- **Bearing Check:** Listen for unusual noises during operation, which may indicate worn bearings. If bearings feel rough or noisy, they may need replacement.
- **Storage:** Store the motor in a clean, dry environment away from extreme temperatures and direct sunlight.

## TROUBLESHOOTING

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Refer to this section for common issues and their potential solutions:

Problem	Possible Cause	Solution
Motor not spinning	Disconnected wires, faulty ESC, dead battery, motor damage	Check all connections, test ESC, charge/replace battery, inspect motor for physical damage.
Reduced power/thrust	Incorrect propeller, low battery voltage, motor overheating, ESC timing issue	Verify propeller size/pitch, check battery charge, allow motor to cool, adjust ESC timing.
Motor overheating	Over-propped, insufficient cooling, excessive current draw, faulty bearings	Use smaller propeller, ensure adequate airflow, check for binding, replace bearings.
Unusual noise/vibration	Unbalanced propeller, bent motor shaft, worn bearings, loose motor mount	Balance propeller, inspect/replace shaft, replace bearings, tighten motor mount screws.

## SPECIFICATIONS

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Detailed technical specifications for the E-flite 480 BL Outrunner Motor 960Kv:

**Brand:** E-flite

**Model Name:** 480 Brushless Outrunner Motor, 960Kv

**Item Model Number:** EFLM480BL

**Speed (Kv):** 960 RPM/Volt

**Poles:** 14

**Material:** Plastic (housing components)

**Item Weight:** 0.11 Kilograms (approximately 3.87 ounces)

**Product Dimensions:** 6.5 x 4.8 x 1.5 inches

**Manufacturer:** E-flite

**UPC:** 605482692592

**Recommended Age:** 14 years and up

## WARRANTY AND SUPPORT

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This E-flite product is covered by the manufacturer's warranty. For specific warranty terms and conditions, please refer to the documentation provided with your purchase or visit the official E-flite website.

For technical support, replacement parts, or further assistance, please visit the [E-flite Store on Amazon](#) or the official E-flite customer support channels.