

Aexit modle

Aexit BEC Brushless Motor Speed Controller ESC 6A User Manual

Model: modle | Brand: Aexit

1. INTRODUCTION

The Aexit BEC Brushless Motor Speed Controller (ESC) 6A is designed for use in RC gliders and airplanes. This ESC offers efficient and reliable motor control with several integrated protection features.

Key features include:

- Brushless design for low interference and noise.
- Smooth operation and extended lifespan.
- Comprehensive protections: low voltage, throttle signal loss, and over-heat.
- Self-check function for operational safety.

2. SAFETY INFORMATION

Please read and understand all safety warnings before operating this product. Failure to follow these instructions may result in injury or damage to the product or property.

- **Do not allow children to have casual contact with the device.**
- **Handle with care; do not shake forcefully.**
- **Avoid use in extreme temperatures, such as near open flames or in super high-temperature environments.**
- **Ensure proper ventilation during operation to prevent overheating.**

! WARNING !

En: Product safety and compliance information
 Fr: Informations sur la sécurité et la conformité des produits
 Es: Información sobre seguridad y cumplimiento del producto
 Se: Information om produktsäkerhet och överensstämmelse

De: Informationen zu Produktsicherheit und Konformität
 It: Informazioni sulla sicurezza e sulla conformità dei prodotti
 Nl: Informatie over productveiligheid en naleving
 Pl: Informacje dotyczące bezpieczeństwa i zgodności produktów

! WARNING

--Do not allow children to have casual contact;
 --Handle with care, do not shake forcefully;
 --Avoid use in extreme temperatures such as open flames and super high temperatures;

! WARNING

--Erlauben Sie Kindern keinen gelegentlichen Kontakt zu haben;
 --Vorsicht walten lassen, nicht kräftig schütteln;
 --Vermeiden Sie Gebrauch in extremen Temperaturen wie offenen Flammen und super hohen Temperaturen;

! WARNING

- ne laissez pas les enfants entrer en contact avec eux au hasard;
 -- Placez - le soigneusement et doucement, ne le secouez pas avec force;
 -- Évitez l'utilisation dans des températures extrêmes telles que les flammes nues et les températures ultra - élevées;

! WARNING

- Non permettere ai bambini di avere un contatto casuale;
 - Gestire con cura, non agitare con forza;
 - Evitare l'uso in temperature estreme come fiamme aperte e temperature super alte;

! WARNING

-- no deje que los niños entren en contacto a voluntad;
 -- Tenga cuidado de bajarlo suavemente y no Sacudirlo con fuerza;
 -- evitar el uso a temperaturas extremas como llamas abiertas y temperaturas ultra altas;;

! WARNING

Laat kinderen geen toevallig contact hebben.
 Wees voorzichtig, schud niet krachtig.
 --Vermijd gebruik in extreme temperaturen zoals open vlammen en super hoge temperaturen;

! WARNING

- Tillåt inte barn att ha tillfällig kontakt.
 - Hantera med försiktighet, skaka inte kraftfullt;
 - Undvik användning i extrema temperaturer såsom öppna lågor och super höga temperaturer;

! WARNING

Nie pozwól dzieciom na przypadkowy kontakt.
 Zachowuj się ostrożnie, nie trząśnij siłą.
 --Unikaj stosowania w ekstremalnych temperaturach, takich jak otwarte płomienie i super wysokie temperatury;



Image: Safety warning labels indicating precautions for handling and environmental conditions.

3. PRODUCT OVERVIEW

The Aexit 6A ESC is a compact electronic speed controller designed for brushless motors in RC applications. It features multiple wires for connection to the motor, battery, and receiver.

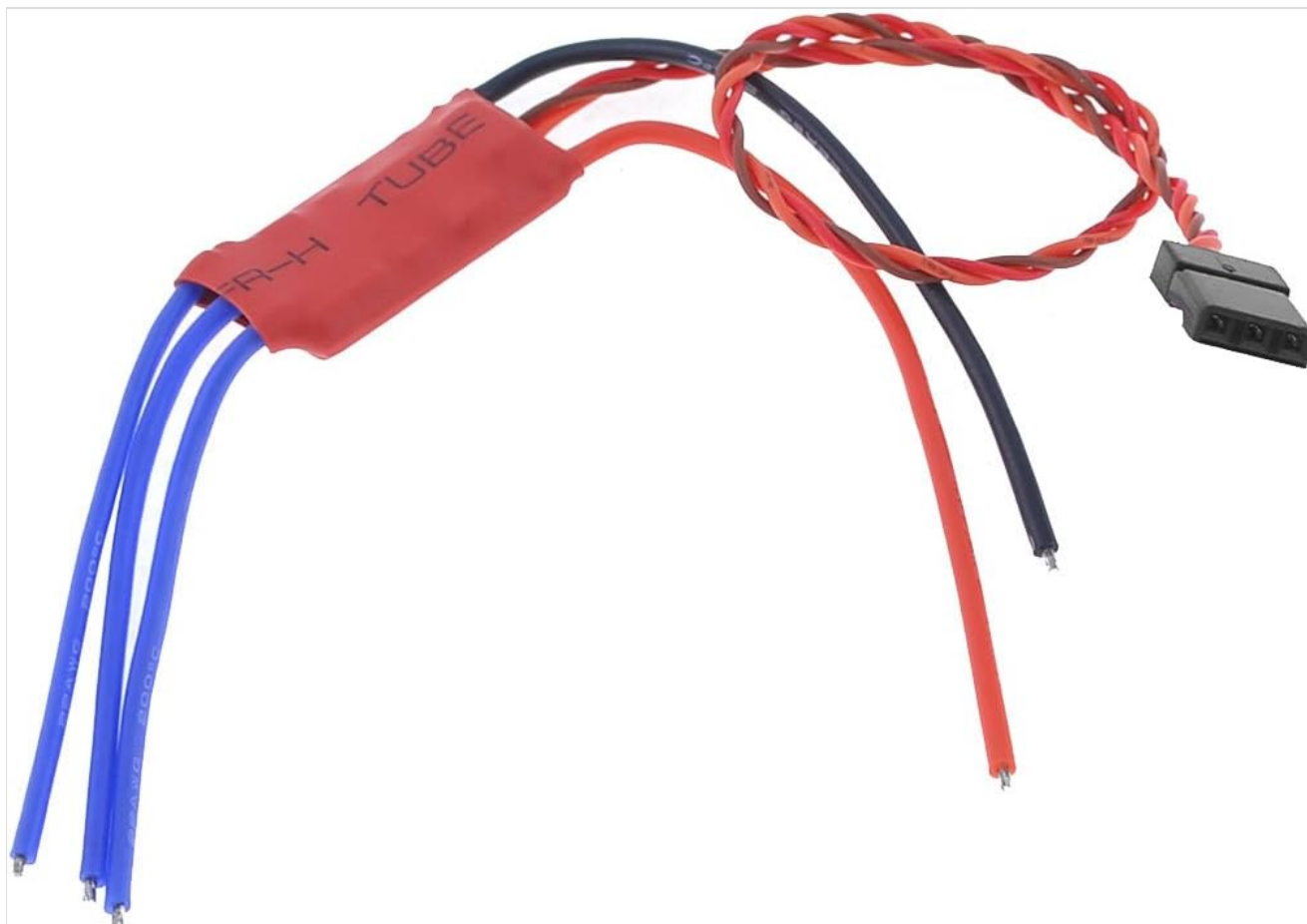


Image: The Aexit BEC Brushless Motor Speed Controller (ESC) 6A, showing the main unit with heat shrink tubing, three blue wires for motor connection, and red/black wires for battery input, along with a signal cable for receiver connection.

Components:

- **ESC Unit:** The main control board, typically encased in heat shrink tubing.
- **Motor Wires:** Three blue wires for connecting to the brushless motor.
- **Battery Wires:** Red (positive) and Black (negative) wires for power input.
- **Signal Cable:** A three-wire cable (red, black, twisted signal wire) for connecting to the RC receiver's throttle channel.

4. SETUP

Follow these steps to properly connect your Aexit 6A ESC:

1. **Motor Connection:** Connect the three blue wires from the ESC to the three wires of 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.
2. **Battery Connection:** Connect the red wire of the ESC to the positive (+) terminal of your battery and the black wire to the negative (-) terminal. Ensure correct polarity to prevent damage. This ESC is compatible with Li-ion, Li-poly, and NiMH battery cells.
3. **Receiver Connection:** Plug the signal cable from the ESC into the throttle channel of your RC receiver. The signal cable typically has a white/orange wire for signal, red for positive, and black/brown for negative. Refer to your receiver's manual for correct pin orientation.
4. **Initial Power-Up:** Before connecting the propeller or engaging the motor, ensure all connections are secure. Power on your RC transmitter, then connect the battery to the ESC. The ESC will perform a self-check and emit a series of beeps.

5. OPERATING INSTRUCTIONS

Once the ESC is properly set up and powered on, you can operate your RC model:

1. **Throttle Calibration (if necessary):** Some ESCs require throttle range calibration with your transmitter. If the motor does not respond correctly to throttle input, consult your transmitter's manual for throttle calibration procedures.
2. **Motor Control:** Use the throttle stick on your RC transmitter to control the motor speed. Moving the stick forward typically increases speed, and pulling it back decreases speed.
3. **Protection Features:** The ESC is equipped with several protection mechanisms:
 - **Low Voltage Protection:** If the battery voltage drops below a safe operating level, the ESC will reduce or cut power to the motor to protect the battery from over-discharge.
 - **Throttle Signal Loss Protection:** If the ESC loses the throttle signal from the receiver, it will automatically cut power to the motor to prevent uncontrolled operation.
 - **Over-Heat Protection:** If the ESC's temperature exceeds a safe limit, it will reduce power or shut down to prevent damage.
4. **Power Down:** Always disconnect the battery from the ESC first, then power off your RC transmitter.

6. MAINTENANCE

Proper maintenance ensures the longevity and reliable performance of your ESC:

- **Regular Inspection:** Periodically inspect all wires and connectors for signs of wear, fraying, or corrosion.

Ensure all connections are secure.

- **Cleanliness:** Keep the ESC free from dust, dirt, moisture, and foreign debris. Use a soft, dry brush or compressed air for cleaning.
- **Storage:** Store the ESC in a cool, dry place away from direct sunlight and extreme temperatures when not in use.
- **Avoid Physical Damage:** Protect the ESC from impacts or crushing, which can damage internal components.

7. TROUBLESHOOTING

If you encounter issues with your Aexit 6A ESC, consider the following troubleshooting steps:

- **Motor Not Responding:**
 - Check battery connection and ensure it is fully charged.
 - Verify the signal cable is securely connected to the receiver's throttle channel.
 - Ensure your RC transmitter is powered on and properly bound to the receiver.
 - Perform throttle calibration if the ESC does not respond to throttle input.
- **Motor Runs Intermittently or Stutters:**
 - Inspect motor wire connections for looseness or damage.
 - Check for any obstructions in the motor or propeller.
 - Ensure the battery can supply sufficient current for the motor.
- **ESC Overheating:**
 - Ensure the ESC has adequate airflow and is not enclosed in a tight space.
 - Verify the motor is not overloaded (e.g., using too large a propeller).
 - Check for short circuits in the motor or wiring.
- **No Power/No Beeps on Startup:**
 - Confirm the battery is connected correctly and fully charged.
 - Check for any breaks in the battery wires or connectors.

8. SPECIFICATIONS

Product Name	Speed Controller ESC
Brand	Aexit
Model Number	modle
Battery Cell Compatibility	Li-ion / Li-poly / NiMH
Constant Current	6A
Board Size (L x W x T)	22 x 13 x 5mm (0.87" x 0.5" x 0.2")
Cable Length	Shortest: 4cm (1.57"), Longest: 16cm (7.1")
Material	Metal, Electronic Parts
Color	Black, Red, Blue
Weight	6g

ASK A QUESTION ABOUT THIS MANUAL

Ask about setup, troubleshooting, compatibility, parts, safety, or missing instructions. Manuals+ will review the question and use this page's manual context to help answer it.

Name

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After a successful submission, we securely hash the supplied account or form email before sending it to Microsoft Advertising for conversion attribution. [Privacy details](#).

Question

Example: How do I reset this device or fix this error?

Details

Model number, symptoms, what you tried, or the section of the manual you are using.

Submit question