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## Acouto B0F6HTXYCZ

# Acouto Brushed ESC Regler Instruction Manual

MODEL: B0F6HTXYCZ

## 1. Introduction

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Thank you for choosing the Acouto Brushed ESC Regler. This Electronic Speed Controller (ESC) is designed for RC model boats and is compatible with 130 and 180 brushed motors. It offers reliable performance, versatile control options, and advanced safety features. Please read this manual thoroughly before use to ensure proper setup and operation.

## 2. Safety Information

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- Always disconnect the battery from the ESC when not in use to prevent accidental motor activation.
- Ensure all connections are secure and correctly polarized before applying power. Incorrect connections can damage the ESC and other components.
- Operate RC models in open areas, away from people, animals, and obstacles.
- Do not expose the ESC to extreme temperatures or moisture beyond its splashproof rating.
- If the ESC becomes excessively hot (above 130°C), it will automatically reduce power. Allow it to cool down before resuming operation.
- Keep out of reach of children.

## 3. Product Overview

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The Acouto Brushed ESC is a compact and lightweight two-way speed controller. It features a robust design suitable for various RC applications, including model boats and vehicles requiring precise motor control.

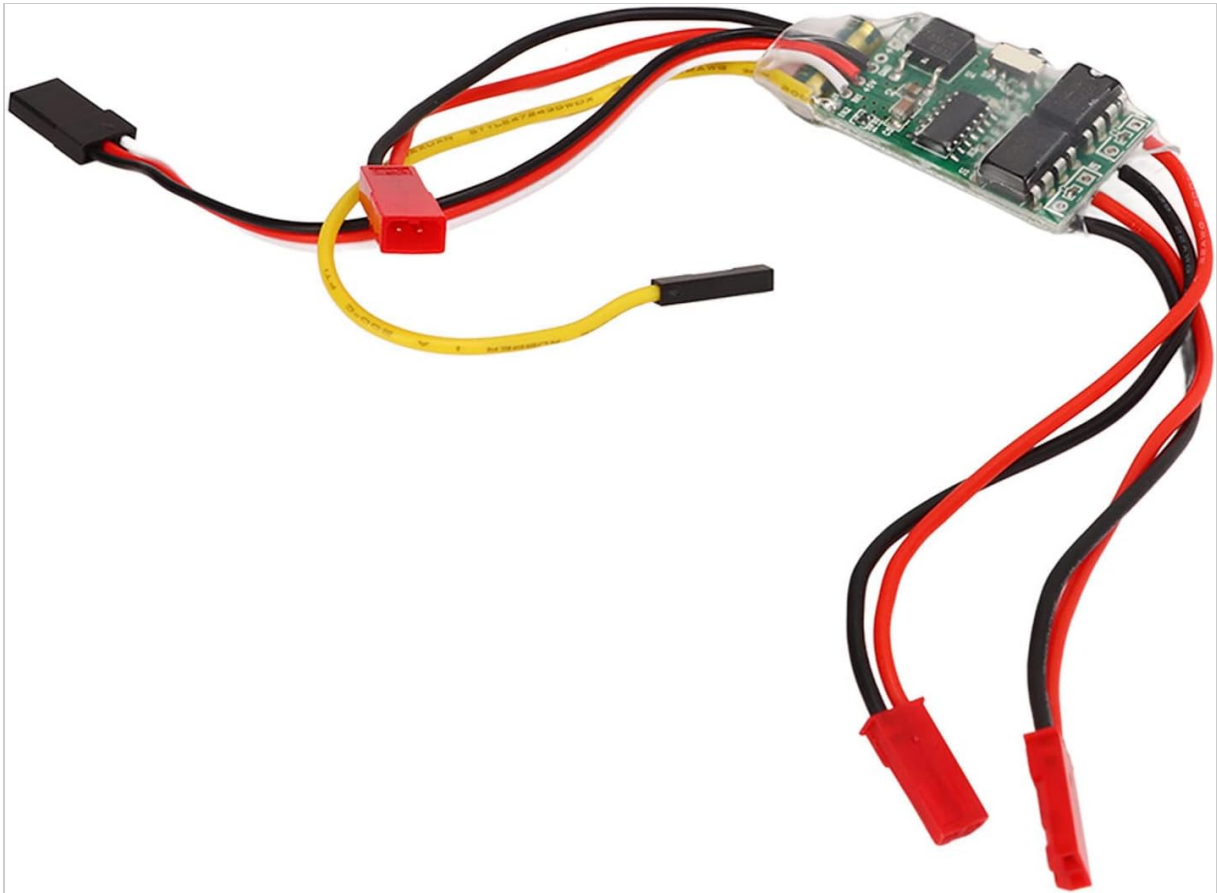


Figure 3.1: Top view of the Acouto Brushed ESC Regler, showing the circuit board, input, and motor output wires.

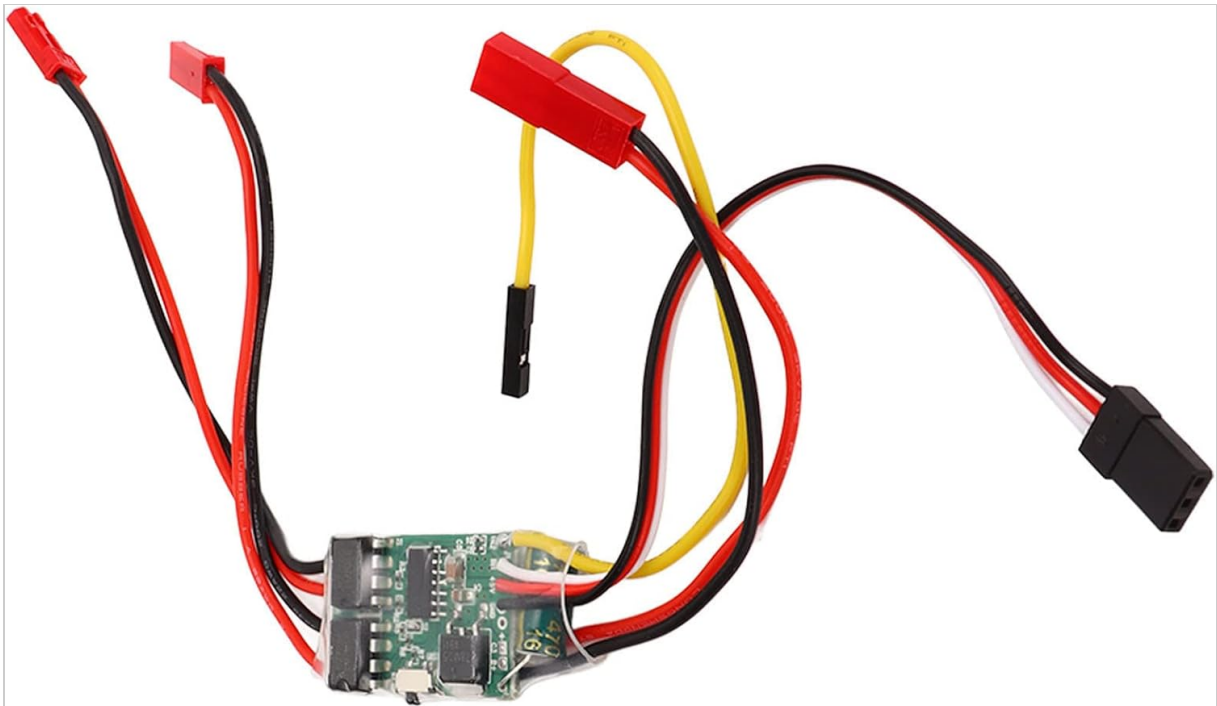


Figure 3.2: Another perspective of the ESC, highlighting the compact design and wire organization.

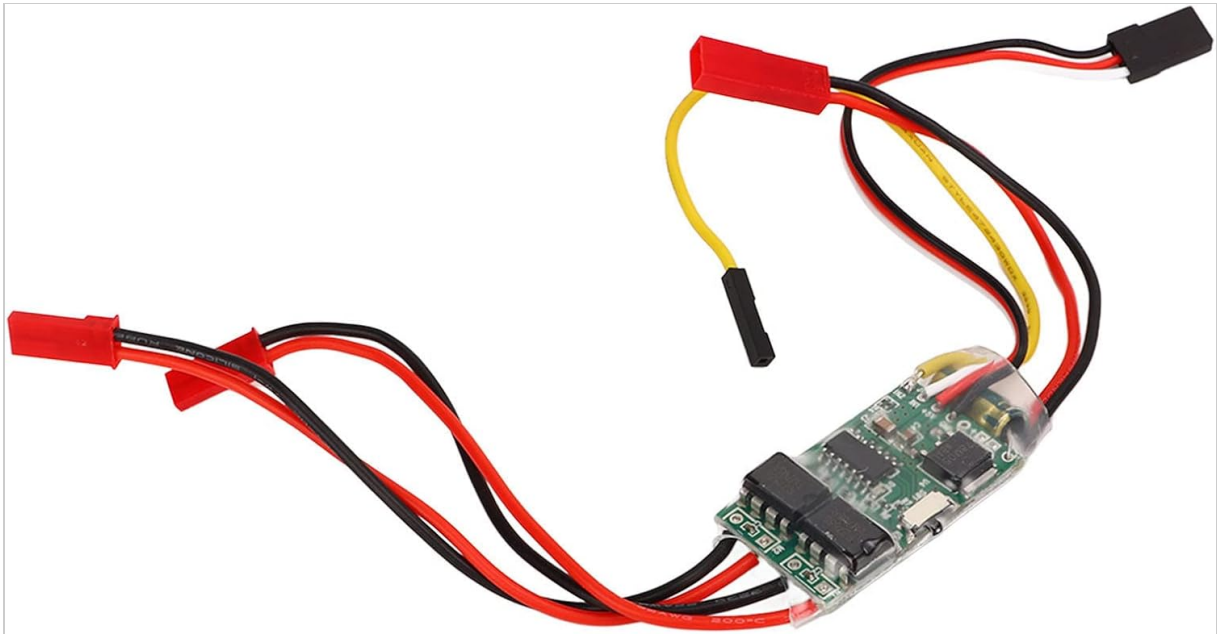


Figure 3.3: Close-up view of the ESC, detailing the signal input (yellow/black wire) and power connectors (red/black wires).

## 4. Specifications

Feature	Detail
Item Type	RC Brushed ESC
Material	Plastic and electronic components
Support Voltage	6V-14V (2S-3S LiPo)
Output Current	5A x 2
Mode Adjustable	Mixed or Independent
Overheat Protection	ESC > 130°C (automatic power reduction)
Input Signal	PPM
Product Size	40 x 21 x 6.5 mm (1.6 x 0.83 x 0.26 in)
Suitable Motors	130, 180 brushed motors

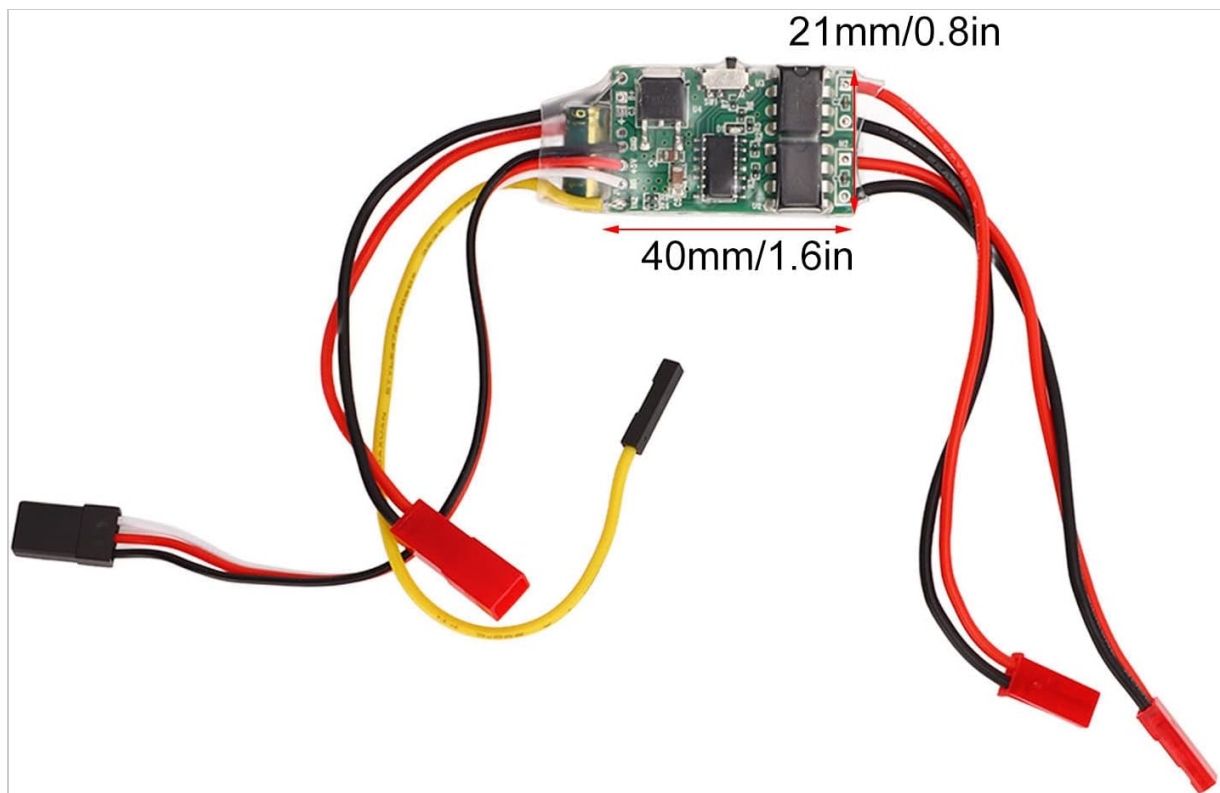


Figure 4.1: Dimensions of the Acouto Brushed ESC Regler, showing length (40mm/1.6in) and width (21mm/0.8in).

## 5. Setup Instructions

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Follow these steps to correctly connect your Acouto Brushed ESC Regler:

1. **Connect to Receiver:** Plug the signal wire (yellow/black/red servo connector) from the ESC into the appropriate throttle channel on your RC receiver. Typically, this is channel 2 for throttle.
2. **Connect to Motors:** Connect the two sets of red and black output wires from the ESC to your brushed motors. Ensure correct polarity (red to positive, black to negative) for desired motor direction. If a motor spins in the wrong direction, reverse its connections.
3. **Connect to Battery:** Connect the main power input wires (red and black with larger connectors) from the ESC to your 2S or 3S LiPo battery. Ensure correct polarity.
4. **Initial Calibration (if required by your radio system):** Turn on your transmitter, then connect the battery to the ESC. The ESC may emit a series of beeps. Follow your radio system's instructions for throttle range calibration if necessary.

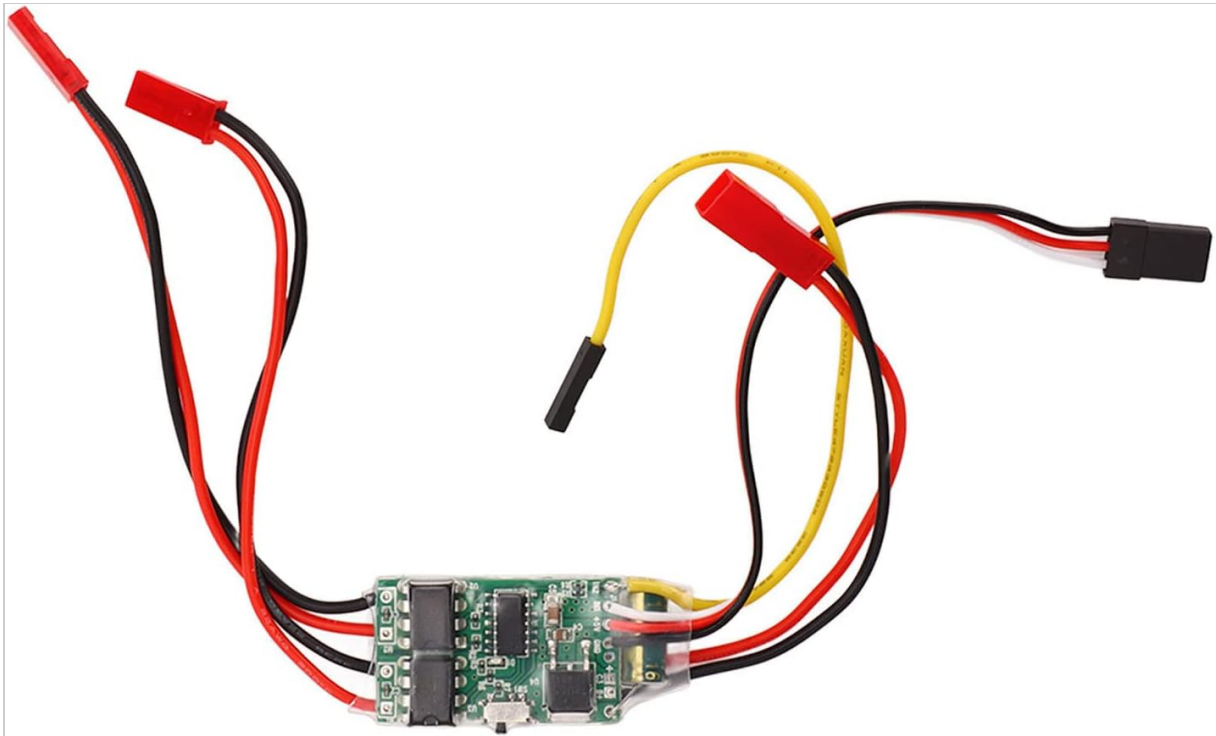


Figure 5.1: Example of the ESC with all wires connected, ready for installation.

## 6. Operating Instructions

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The Acouto Brushed ESC offers two primary operating modes: Mixed and Independent. The mode is typically selected via a switch or jumper on the ESC itself (refer to the physical ESC for specific markings).

- **Mixed Mode:** In this mode, the ESC controls two motors simultaneously, often used for differential steering in vehicles like tanks or boats with dual propellers. One channel controls forward/reverse, and another controls the difference in speed between the two motors for turning.
- **Independent Mode:** Each motor is controlled independently by a separate channel from the receiver. This allows for precise control of each motor's forward and reverse rotation, suitable for applications requiring individual motor management.

**Throttle Loss Protection:** This ESC is equipped with throttle loss protection. If the signal from the receiver is lost, the ESC will gradually reduce power output to the motors, preventing runaway situations and enhancing safety.

**Overheat Protection:** The ESC will automatically reduce power if its internal temperature exceeds 130°C to prevent damage. Allow the ESC to cool down before continuing operation if this occurs.

## 7. Maintenance

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To ensure the longevity and optimal performance of your ESC, follow these simple maintenance guidelines:

- Keep the ESC clean and free from dust, dirt, and debris. Use a soft brush or compressed air to gently clean the circuit board.
- Regularly inspect all wires and connectors for signs of wear, damage, or corrosion. Replace any damaged components immediately.
- Ensure adequate airflow around the ESC during operation to assist with heat dissipation.

## 8. Troubleshooting

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Problem	Possible Cause	Solution
No power to motors	Battery not connected or discharged; incorrect polarity; ESC not armed.	Check battery connection and charge level; verify polarity; ensure throttle is at neutral/zero position when powering on.
Motor runs in wrong direction	Incorrect motor wire polarity.	Reverse the red and black wires connecting the ESC to the specific motor.
ESC gets very hot	Overloaded motors; insufficient cooling; prolonged high-current draw.	Reduce load on motors; ensure proper ventilation; allow ESC to cool down. Check motor size compatibility.
Intermittent motor operation	Loose connections; signal interference; damaged wires.	Check all wire connections; ensure receiver and ESC are away from noise sources; inspect wires for damage.
No response from throttle	Receiver not powered; signal wire disconnected; transmitter not bound.	Verify receiver power and connection; ensure signal wire is securely plugged into the correct channel; re-bind transmitter and receiver.

## 9. Warranty and Support

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Acouto products are manufactured to high-quality standards. For specific warranty details, please refer to the terms provided at the time of purchase or contact your retailer. If you encounter any issues or require further assistance, please visit the official Acouto store or contact customer support.

**Official Acouto Store:** <https://www.amazon.com/stores/ACOUTO/page/07344A45-C8A9-4167-A254-4522793FB4BB>