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> AlveyTech HB3650-TYD6-FS-ROHS Control Module User Manual for Razor MX500, MX650, RSF650, EcoSmart Metro, and Pocket Mod Bellezza

AlveyTech HB3650-TYD6-FS-ROHS

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For Razor MX500, MX650, RSF650, EcoSmart Metro, and Pocket Mod Bellezza

1. INTRODUCTION

This manual provides essential information for the installation, operation, and maintenance of your AlveyTech HB3650-TYD6-FS-ROHS Control Module. This module serves as a replacement speed controller for various Razor electric scooters and dirt bikes. It is designed for models that utilize a 6-wire throttle system.

The control module is a critical component, often referred to as the 'brain' of your electric vehicle, as it manages all electrical functions, including motor speed and power delivery.



Figure 1: The AlveyTech control module and a list of compatible Razor models. This module is compatible with Razor Dirt Quad 500, EcoSmart Metro, MX500 Dirt Rocket (Versions 21 and up), MX650 Dirt Rocket (Versions 14 and up), Pocket Mod Bellezza, RSF650, and SX500 McGrath Dirt Rocket.

2. SAFETY INFORMATION

WARNING: Adult supervision is required during installation. This product involves electrical components. Always disconnect the battery before attempting any installation or maintenance. For outdoor use only. Not suitable for children under 13.

- Always ensure the vehicle's power is off and the battery is disconnected before handling the control module or any electrical components.
- Wear appropriate safety gear, including gloves and eye protection, during installation.
- Do not expose the control module to water or extreme temperatures.
- Ensure all connections are secure and properly insulated after installation.

3. PACKAGE CONTENTS

Your AlveyTech HB3650-TYD6-FS-ROHS Control Module package should contain the following:

- 1 x AlveyTech HB3650-TYD6-FS-ROHS Control Module

4. VERIFY MODEL VERSION

It is crucial to verify the version number of your Razor product to ensure compatibility with this control module. This module is specifically designed for Razor models using a 6-wire throttle and certain version ranges (e.g., MX500 Versions 21+, MX650 Versions 14+).



Figure 2: Example of a Razor product ID code. To ensure compatibility, locate the 19-digit product ID code on your Razor product, typically on the battery cover or on the bottom of the frame. The 7th and 8th digits indicate the version number (e.g., "01" = Version 1, "09" = Version 9).

5. SETUP AND INSTALLATION

The AlveyTech HB3650-TYD6-FS-ROHS Control Module is designed for straightforward replacement. Follow these steps for installation:

1. **Disconnect Power:** Before beginning, ensure the Razor vehicle is turned off and the battery is completely disconnected to prevent electrical shock or damage.
2. **Locate Existing Module:** Identify the location of the old control module on your Razor product. This is typically found near the battery compartment or under the deck.
3. **Disconnect Old Module:** Carefully disconnect all wires and connectors from the old control module. Note the position and color of each wire for reference, or take photos if necessary.
4. **Install New Module:** Position the new AlveyTech control module in the same location as the old one.
5. **Connect Wires:** Connect the six unique connectors from the new control module to their corresponding ports on the Razor vehicle. These connectors are typically for the battery kit, motor/brake, and 6-wire throttle. Ensure each connection is firm and secure. The connectors are designed to be unique, making incorrect connections difficult.

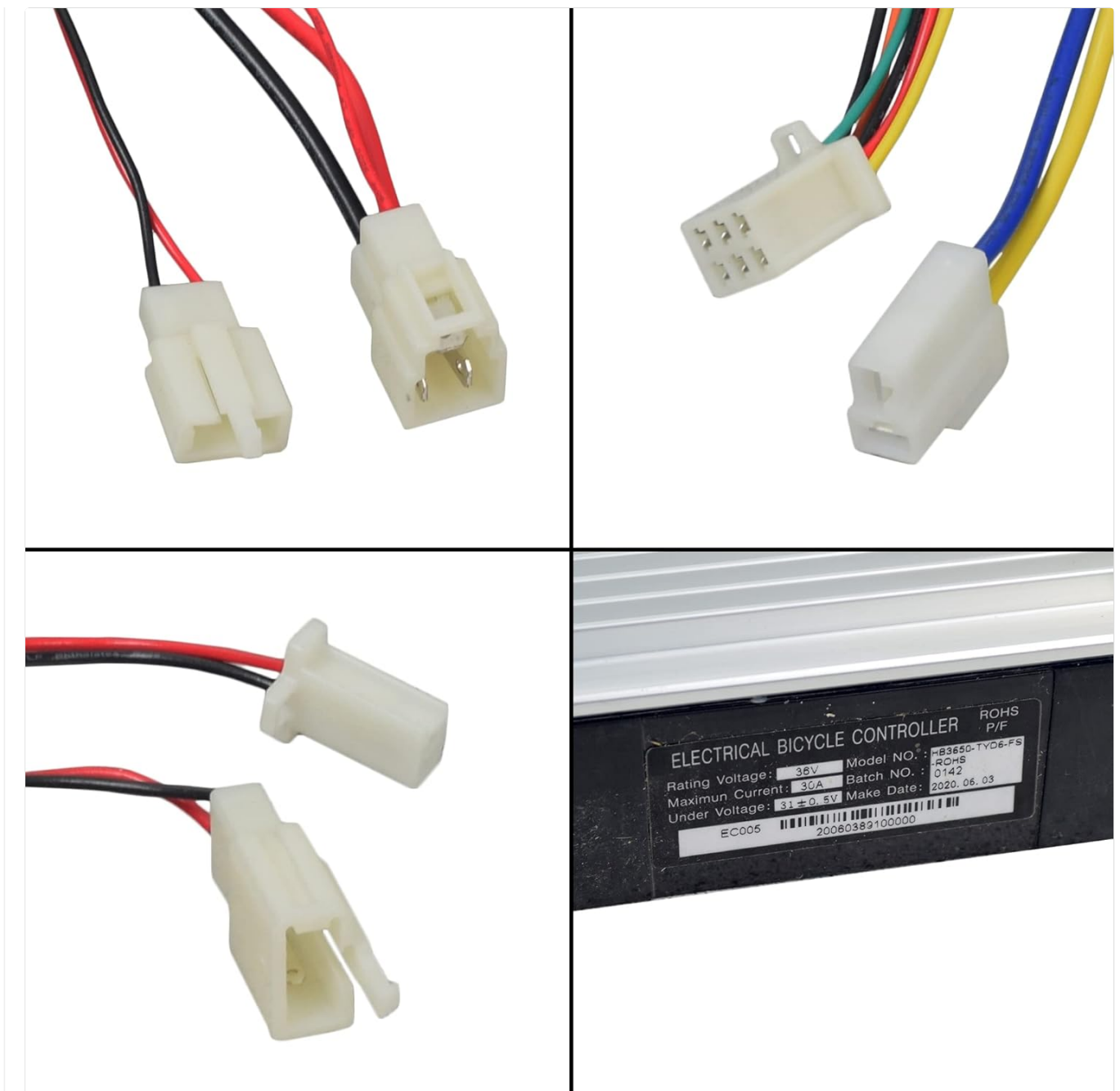


Figure 3: The control module features six unique connectors designed for easy plug-and-play installation with the battery kit, motor/brake, throttle, and charger.

6. **Secure Module:** Secure the control module in place using any original mounting hardware.
7. **Reconnect Battery:** Once all connections are made and secured, reconnect the vehicle's battery.
8. **Test Functionality:** Perform a test run to ensure the vehicle operates correctly and the control module is functioning as expected.

6. OPERATING INSTRUCTIONS

The AlveyTech HB3650-TYD6-FS-ROHS Control Module functions as an internal component that regulates the electrical system of your Razor vehicle. Once correctly installed, its operation is integrated with the vehicle's existing controls (e.g., throttle, brake). No direct user interaction with the module itself is required during normal operation. Ensure your vehicle's battery is adequately charged for optimal performance. Refer to your Razor vehicle's original user manual for specific operating instructions related to your model.

7. MAINTENANCE

Proper maintenance of your control module ensures longevity and reliable performance:

- **Keep Dry:** Protect the control module from moisture and water exposure. While designed for outdoor use, direct water immersion or heavy rain can cause damage.
- **Cleanliness:** Periodically inspect the module and its connections for dirt, dust, or debris. Clean gently with a dry, soft cloth. Do not use liquid cleaners.
- **Connection Checks:** Regularly check all wire connections to ensure they remain secure and free from corrosion. Loose connections can lead to intermittent performance or damage.
- **Temperature:** Avoid operating or storing the vehicle in extreme temperatures, as this can affect the electronic components.

8. TROUBLESHOOTING

If your Razor vehicle experiences issues after installing the control module, consider the following troubleshooting steps:

- **No Power:**
 - Check battery charge level.
 - Verify all battery connections are secure.
 - Ensure the main power switch on the vehicle is in the 'ON' position.
- **Motor Not Responding to Throttle:**
 - Confirm the 6-wire throttle connector is properly seated and undamaged.
 - Ensure the throttle itself is functioning correctly (if possible to test separately).
- **Intermittent Operation:**
 - Inspect all wire connections for looseness or corrosion.
 - Check for any visible damage to the control module or wiring.
- **Vehicle Not Moving or Moving Slowly:**
 - Verify the battery is fully charged and in good condition.
 - Ensure the motor connections are secure.
- **Module Overheating:**
 - Ensure the module has adequate ventilation and is not covered.
 - Check for any signs of motor strain or excessive load on the vehicle.

If issues persist after troubleshooting, contact AlveyTech customer support or a qualified technician.

9. SPECIFICATIONS

Detailed specifications for the AlveyTech HB3650-TYD6-FS-ROHS Control Module:

Figure 4: The control module measures approximately 4-3/16 inches (10.64 cm) in length, 3 inches (7.61 cm) in width, and 1-3/4 inches (4.44 cm) in height.

Feature	Specification
Model Number	HB3650-TYD6-FS-ROHS
Part Number	W15165070015
Voltage Rating	36 Volts
Amp Rating	30 Amps
Throttle Compatibility	6-Wire Throttle Connector
Dimensions (L x W x H)	4-3/16" (10.64 cm) x 3" (7.61 cm) x 1-3/4" (4.44 cm)
Weight	10.4 ounces
Material	Aluminum
Color	Silver
UPC	810070314613

10. WARRANTY AND SUPPORT

This AlveyTech control module comes with a 30-day return warranty. Please retain your proof of purchase for any warranty claims.

For technical assistance, troubleshooting beyond this manual, or warranty inquiries, please contact AlveyTech customer support through their official channels or the retailer where the product was purchased.