AlveyTech Z09-1656

AlveyTech 36 Volt 1000 Watt Universal Speed & Voltage Controller User Manual

Brand: AlveyTech | **Model:** Z09-1656

Introduction

This manual provides essential information for the installation, operation, and maintenance of your AlveyTech 36 Volt 1000 Watt Universal Speed & Voltage Controller. This controller is designed for use with electric scooters, bikes, go-karts, and mopeds, offering reliable speed and voltage management for 36-volt systems equipped with 600-1000 watt motors.
It is crucial to read this manual thoroughly before attempting any installation or operation to ensure safe and correct usage.

Key Features

- Designed for 36 Volt systems.
- Supports motors ranging from 600 watts up to 1000 watts.
- Compatible with 3-wire throttles.
- Equipped with eight distinct connectors for comprehensive system integration.
- Universal design for electric scooters, bikes, go-karts, and mopeds.

Setup and Installation

Before installation, ensure the power source is disconnected. This controller features eight primary connectors

for various functions. It is compatible with 3-wire throttles but not with 4-wire or Currie 5-pin or 6-pin half-grip throttles. Some existing connectors on your vehicle may need to be cut and spliced to match the controller's wiring.

Controller Connections Overview:



Image: AlveyTech 36 Volt 1000 Watt Universal Speed & Voltage Controller, showing the main unit and all connected wires.

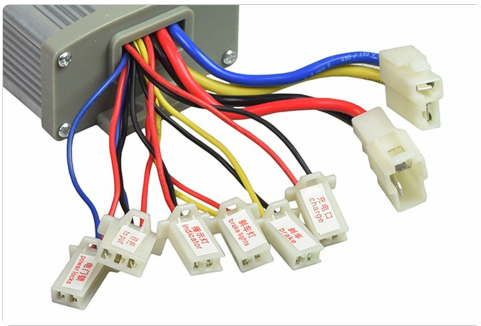


Image: Close-up view of the controller's wiring harness, highlighting individual connectors and their labels.

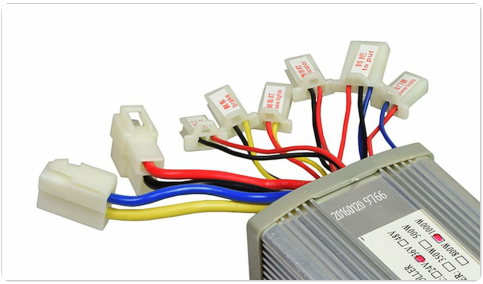


Image: Another close-up of the controller's wiring, providing a different angle of the labeled connectors.

The controller connections are as follows:

- **Battery Connector:** Black & Red Wires (Thick) - Connects to the main battery power supply.
- **Motor Connector:** Blue & Red Wires (Thick) - Connects to the electric motor.
- **Charge Connector:** Black and Red Wires (Thin) - For connecting the charger.
- **Power Locks Connector:** Blue & Red Wires (Thin) - For ignition or power lock functionality.
- **Throttle Connector:** Red, Black, & Blue Wires (Thin) - Connects to the 3-wire throttle. Ensure correct polarity.

- **Brake Connector:** Black & Yellow Wires (Thin) - Connects to the brake lever switch.
- **Brake Light Connector:** Black & Red Wires (Thin) - For connecting a brake light.
- **Pilot Lamp Connector:** Black & Red Wires (Thin) - For connecting an indicator or pilot lamp.

Always double-check all connections before applying power to prevent damage to the controller or other components.

Operating Instructions

Once the controller is correctly installed and all connections are secure, the system is ready for operation. The controller manages the speed and voltage output to the motor based on the throttle input.

- **Power On:** Turn on the main power switch or ignition lock connected to the controller.
- **Throttle Control:** Gently apply the throttle to initiate movement. The controller will regulate the power to the motor according to the throttle position.
- **Braking:** Engaging the brake lever will signal the controller to cut power to the motor, ensuring safe stopping.
- **Monitoring:** Observe the performance of your vehicle. The controller is designed to provide smooth and consistent power delivery.

If the vehicle does not respond as expected, refer to the Troubleshooting section.

Maintenance

To ensure the longevity and optimal performance of your AlveyTech controller, follow these general maintenance guidelines:

- **Keep Dry:** Protect the controller from moisture and water exposure. While designed for outdoor use, excessive water can cause damage.
- **Cleanliness:** Periodically clean the exterior of the controller with a dry, soft cloth to remove dust and debris. Do not use liquid cleaners.
- **Inspect Connections:** Regularly check all wire connections to ensure they are secure and free from corrosion or damage. Loose connections can lead to intermittent performance or component failure.
- **Avoid Overheating:** Ensure the controller has adequate ventilation. Avoid covering it or installing it in enclosed spaces where heat can build up.
- **Professional Inspection:** If you suspect any internal issues or significant damage, consult a qualified technician for inspection and repair.

Troubleshooting

If you encounter issues with your controller, consider the following common troubleshooting steps:

- **No Power/No Response:**

- Check the battery connection and ensure the battery is charged.
- Verify the power lock/ignition switch is functioning correctly.
- Inspect all wire connections for loosenness or damage.

- **Motor Not Running/Intermittent Power:**
  - Ensure the throttle is properly connected and functioning.
  - Check the motor connections for secure fit.
  - Confirm the brake switch is not stuck in the "on" position, which would cut motor power.

- **Unusual Noises or Smells:**
  - Immediately disconnect power.
  - This may indicate an internal fault or short circuit. Do not attempt to operate the controller. Seek professional assistance.

- **Controller Overheating:**
  - Ensure adequate ventilation around the controller.
  - Verify the motor is not drawing excessive current (e.g., due to a short or being overloaded).

For persistent issues or complex problems, it is recommended to consult a qualified technician or contact AlveyTech customer support.

Specifications

Attribute	Detail
Brand	AlveyTech
Model Number	Z09-1656
Voltage	36 Volts
Horsepower/Wattage	1000 Watts (compatible with 600-1000W motors)
Item Weight	0.24 Kilograms (approx. 8.47 ounces)
Package Dimensions	8.46 x 3.7 x 1.61 inches
Date First Available	March 1, 2022
ASIN	B09TPWR5Z1

For further assistance or inquiries, please visit the official AlveyTech Store on Amazon.

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