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> Heayzoki DC Motor Speed Controller (Model Heayzokii4p7n1abgm6351) User Manual

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Heayzoki DC Motor Speed Controller User Manual

Model: Heayzokii4p7n1abgm6351

1. PRODUCT OVERVIEW

The Heayzoki DC Motor Speed Controller is designed for precise control of DC brush motors. It features Pulse Width Modulation (PWM) technology for accurate and stable speed adjustment, along with a forward/reverse rotation control switch. The robust circuit board and well-designed casing ensure durability and efficient heat dissipation.



Figure 1: Front view of the Heayzoki DC Motor Speed Controller, highlighting its PWM control, 40A current capacity, and 12-60V DC input range.

2. SPECIFICATIONS

| | |
|-----------------------------------|--|
| Brand | Heayzoki |
| Model | Heayzokii4p7n1abgm6351 |
| Input Voltage | DC 12-60V |
| Max Current | 40A |
| Control Type | PWM (Pulse Width Modulation) |
| Motor Type | DC Brush Motor |
| Rotation Control | Forward/Reverse/Stop (CCW Reversible Switch) |
| Material | Copper (internal components) |
| Product Dimensions (W x H) | 3.54"W x 3.9"H (90mm x 99mm) |
| Item Weight | 0.26 Kilograms |



Figure 2: Detailed dimensions of the speed controller for installation planning.

3. SETUP AND INSTALLATION

Follow these steps for proper installation of your DC Motor Speed Controller:

- Power Disconnection:** Ensure all power sources are disconnected before beginning installation to prevent electrical shock.
- Mounting:** Securely mount the controller in a suitable location, considering its dimensions and ensuring adequate ventilation.
- Wiring Connections:** Refer to the wiring diagram below and connect the power supply and motor leads to the appropriate terminals.
 - Connect the positive (+) terminal of your DC power supply to the **+POWER** terminal on the controller.
 - Connect the negative (-) terminal of your DC power supply to the **-POWER** terminal on the controller.
 - Connect one motor lead to the **+MOTOR** terminal.
 - Connect the other motor lead to the **-MOTOR** terminal.
- Verify Connections:** Double-check all wiring for correct polarity and secure connections. Loose connections can cause malfunction or damage.



Figure 3: Rear view of the controller with clearly labeled power and motor terminals for wiring.

4. OPERATING INSTRUCTIONS

Once installed, operate the speed controller as follows:

1. **Power On:** Connect the DC power supply. The red indicator light on the front panel should illuminate.
2. **Motor Direction Control:** Use the three-position switch labeled 'RUN' to select the motor's direction or stop it.
 - Move the switch to the **UP** position for forward rotation.
 - Move the switch to the **MIDDLE** position to stop the motor.
 - Move the switch to the **DOWN** position for reverse rotation.
3. **Speed Adjustment:** Rotate the knob labeled 'SPEED CONTROL' to adjust the motor's speed.
 - Turn the knob towards 'Low' for slower speeds.
 - Turn the knob towards 'High' for faster speeds.
4. **Power Off:** To turn off the system, first set the direction switch to the 'STOP' (middle) position, then disconnect the main DC power supply.



Figure 4: Front panel controls including the speed adjustment knob and the forward/reverse/stop switch.

5. MAINTENANCE

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

- **Cleaning:** Periodically clean the exterior of the controller with a soft, dry cloth. Do not use abrasive cleaners or solvents. Ensure no dust or debris accumulates in ventilation openings.
- **Inspection:** Regularly inspect all wiring connections to ensure they remain secure and free from corrosion or damage.
- **Environment:** Operate the controller within its specified temperature and humidity ranges. Avoid exposure to excessive moisture, dust, or corrosive environments.
- **Ventilation:** Ensure the controller has adequate airflow around it to prevent overheating, especially during prolonged operation at high loads.

6. TROUBLESHOOTING

If you encounter issues with your Heayzoki DC Motor Speed Controller, refer to the following table:

| Problem | Possible Cause | Solution |
|---------|----------------|----------|
|---------|----------------|----------|

| | | |
|--|---|--|
| Motor does not run | No power supply; Incorrect wiring; Faulty motor; Direction switch in 'STOP' position. | Check power connections and supply voltage; Verify wiring against diagram; Test motor independently; Ensure direction switch is in 'Forward' or 'Reverse'. |
| Motor runs erratically or at incorrect speed | Loose wiring connections; Incompatible motor; Speed knob setting; Overload. | Check and secure all wiring; Ensure motor is compatible with controller specifications; Adjust speed knob; Reduce motor load. |
| Controller overheats | Excessive load on motor; Insufficient ventilation; Short circuit. | Reduce motor load; Ensure adequate airflow around the controller; Check for short circuits in wiring or motor. |
| Direction switch does not change motor direction | Faulty switch; Incorrect motor type (not reversible). | Verify switch functionality; Confirm motor is a reversible DC brush type. |

If the problem persists after attempting these solutions, please contact customer support.

7. WARRANTY INFORMATION

Heayzoki products are manufactured to high-quality standards. This product is covered by a standard manufacturer's warranty against defects in materials and workmanship. The warranty period typically begins from the date of purchase. Please retain your proof of purchase for any warranty claims. The warranty does not cover damage caused by improper installation, misuse, unauthorized modifications, or normal wear and tear.

8. CUSTOMER SUPPORT

For further assistance, technical support, or warranty inquiries, please contact Heayzoki customer service through the retailer where the product was purchased or visit the official Heayzoki brand store online. When contacting support, please have your product model number (Heayzokii4p7n1abgm6351) and purchase details ready. You can find more information about Heayzoki products at: [Heayzoki Store](#)