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HOQO WX 5000

HOQO Automatic Voltage Regulator (AVR) Instruction Manual

For Powermate WX 5000, 6200, 4200w, 4650w, 5300w, 5800w Generators

1. INTRODUCTION

This manual provides essential information for the proper installation, operation, and maintenance of your HOQO Automatic Voltage Regulator (AVR) for Powermate generators. The AVR is a critical component designed to maintain a stable output voltage from your generator, protecting connected equipment from voltage fluctuations.

Please read this manual thoroughly before installation and operation to ensure safe and efficient use of the product.

2. SAFETY INFORMATION

Always observe the following safety precautions:

- Disconnect the generator's battery and spark plug wire before performing any installation or maintenance to prevent accidental starting.
- Ensure the generator is completely shut down and cooled before working on electrical components.
- Wear appropriate personal protective equipment (PPE), such as safety glasses and gloves.
- If you are unsure about any step, consult a qualified technician.
- Do not operate the generator with damaged or improperly installed components.

3. PACKAGE CONTENTS

Verify that all items are present in the package:

- 1 x HOQO Automatic Voltage Regulator (AVR)
- 2 x Fuel Filters

4. COMPATIBILITY VERIFICATION

This AVR is designed for specific Powermate generator models, including WX 5000, 6200, 4200w, 4650w, 5300w, and 5800w. It is crucial to verify compatibility before installation.

Important: Amazon compatibility information may not be 100% accurate and is for search purposes only.

Before purchase and installation, carefully compare the physical appearance of this AVR with your original part, check the model numbers, and confirm the OEM part number. If you have any doubts, contact the seller with photos of your old part or its model number for verification.

5. SETUP AND INSTALLATION

Follow these general steps for replacing the AVR and installing the fuel filters. Specific generator models may have slight variations.

5.1. AVR Installation

1. **Prepare the Generator:** Ensure the generator is turned off, cooled down, and disconnected from any power sources. Disconnect the battery and spark plug wire for safety.
2. **Locate the Old AVR:** Identify the existing Automatic Voltage Regulator on your generator. It is typically a black, curved component with multiple wires connected.
3. **Disconnect Wiring:** Carefully disconnect all electrical connectors from the old AVR. Note the position and color of each wire for correct re-connection. Common wire colors include red, blue, yellow, and white, often grouped into connectors.
4. **Remove Old AVR:** Unscrew or unmount the old AVR from its position.
5. **Install New AVR:** Position the new HOQO AVR in the same location. Secure it using the original mounting hardware.
6. **Connect Wiring:** Reconnect all electrical connectors to the new AVR, ensuring each wire matches its original position and color. Double-check all connections for security.



Special Attention

Amazon Compatibility is not 100% accurate and it is for search purpose only . Before purchase, please carefully compare the pictures , models, and OEM part number.

To verify proper fitment ,also you can email us your old parts photo/model number to confirm

Image: The HOQO Automatic Voltage Regulator showing its curved design and electrical connectors (red, blue, yellow, white wires).



Image: The HOQO Automatic Voltage Regulator, a black, curved component designed for generator voltage regulation.

5.2. Fuel Filter Installation

The included fuel filters are replacement parts for your generator's fuel system. Refer to your generator's specific manual for the exact location and procedure for replacing fuel filters. Generally, this involves:

1. Locating the existing fuel filter in the fuel line.
2. Clamping the fuel lines to prevent fuel leakage.
3. Removing the old filter and installing the new one in the correct flow direction.
4. Ensuring all connections are secure and leak-free before restarting the generator.

6. OPERATING PRINCIPLES

The Automatic Voltage Regulator (AVR) is an electronic device that automatically maintains the generator's output voltage at a constant level, regardless of changes in load or engine speed. It does this by controlling the excitation current to the generator's exciter field.

- **Voltage Stability:** The AVR ensures that the voltage supplied to your appliances remains within a

safe operating range, preventing damage from over-voltage or under-voltage conditions.

- **Load Response:** It quickly adjusts the generator's output in response to changes in electrical load, providing consistent power.

No direct user operation is required for the AVR itself once correctly installed. Its function is automatic.

7. MAINTENANCE

The HOQO AVR is designed for durability and typically requires minimal maintenance. However, periodic checks can help ensure its longevity and proper function:

- **Visual Inspection:** Periodically inspect the AVR and its wiring for any signs of damage, corrosion, or loose connections.
- **Cleanliness:** Keep the AVR free from dirt, dust, and moisture. Use a soft, dry cloth for cleaning. Do not use solvents or abrasive cleaners.
- **Connection Integrity:** Ensure all wire connections remain tight and secure.

For the fuel filters, regular replacement according to your generator's maintenance schedule is recommended to ensure clean fuel delivery and optimal engine performance.

8. TROUBLESHOOTING

If your generator experiences voltage-related issues after AVR installation, consider the following:

- **No Voltage Output:**
 - Check all AVR wiring connections for looseness or incorrect placement.
 - Ensure the generator engine is running at the correct RPM.
 - Inspect the generator's brushes and slip rings (if applicable) for wear or damage.
- **Unstable or Fluctuating Voltage:**
 - Verify all connections to the AVR are secure.
 - Check for any loose internal wiring within the generator.
 - Ensure the generator is not overloaded.
- **Over-voltage or Under-voltage:**
 - Confirm the AVR model is correct for your generator.
 - If adjustable, ensure any voltage adjustment screws on the AVR are set correctly (consult a technician if unsure).

If troubleshooting steps do not resolve the issue, it is recommended to consult a qualified generator technician or contact the seller for further assistance.

9. SPECIFICATIONS

Brand	HOQO
Model Name	WX 5000 (Compatible with WX 5000, 6200, 4200w, 4650w, 5300w, 5800w)
Type	Automatic Voltage Regulator (AVR)
Material	Aluminium (Internal components)

Color	Black
Included Accessories	2 pcs Fuel Filter

10. WARRANTY AND SUPPORT

For warranty information or technical support, please refer to the purchase documentation or contact the seller directly. Ensure you have your product model number and purchase date available when seeking support.

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