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› [Metabo](#) /

› Metabo XL Carbon Brush with Brush Holder Set 110V User Manual

Metabo 316066670

User Manual: Metabo XL Carbon Brush with Brush Holder Set 110V

Model: 316066670

INTRODUCTION

This manual provides essential information for the safe and efficient use of your Metabo XL Carbon Brush with Brush Holder Set 110V. Please read these instructions carefully before installation, operation, or maintenance to ensure optimal performance and longevity of the product.



Image: Metabo XL Carbon Brush with Brush Holder Set 110V. This image displays the complete carbon brush and brush holder set, designed for 110V applications.

SAFETY INSTRUCTIONS

Always adhere to the following safety guidelines to prevent injury or damage to the product:

- Ensure the power supply matches the specified voltage (110V DC).
- Disconnect power before installation or maintenance.
- Only use genuine Metabo replacement parts.
- Keep the product away from moisture and extreme temperatures.
- If unsure about any procedure, consult a qualified technician.

SETUP

The Metabo XL Carbon Brush with Brush Holder Set is designed for straightforward installation. Follow these steps for proper setup:

1. **Preparation:** Ensure the power tool or device is completely disconnected from its power source.
2. **Access Brush Compartment:** Locate the brush compartment on your tool. This typically involves removing a cover plate or cap.
3. **Remove Old Brushes:** Carefully extract the worn carbon brushes and their holders. Note their orientation for correct replacement.
4. **Install New Set:** Insert the new Metabo XL Carbon Brush with Brush Holder Set (Model 316066670) into the designated slots. Ensure the carbon brush slides freely within its holder.
5. **Secure Connections:** Connect the screw terminals securely. Ensure all electrical connections are tight and properly insulated.
6. **Reassemble:** Replace the brush compartment cover and secure it firmly.

Note: This set is specifically designed for 110V DC applications. Verify your tool's voltage requirements before installation.

OPERATING

Once installed, the carbon brush and brush holder set operates automatically as part of your power tool's motor system. There are no direct user controls for this component.

- **Initial Run-in:** After installation, run the tool at a low speed for a few minutes without load. This allows the carbon brushes to seat properly against the commutator, ensuring optimal contact and performance.
- **Normal Operation:** The carbon brushes facilitate the transfer of electrical current to the motor's armature. Their operation is integral to the tool's function.
- **Monitoring:** While operating, listen for unusual noises or observe excessive sparking from the motor area, which could indicate brush wear or other issues.

MAINTENANCE

Regular inspection and timely replacement of carbon brushes are crucial for maintaining the efficiency and lifespan of your power tool.

- **Inspection Frequency:** Inspect the carbon brushes every 50-100 hours of operation, or if you notice a decrease in tool performance, excessive sparking, or unusual motor noise.
- **Wear Limit:** Replace carbon brushes when they are worn down to approximately one-third of their original length, or if they appear chipped or damaged.
- **Cleaning:** Periodically clean the brush holders and the commutator (the part of the motor the brushes make contact with) to remove carbon dust buildup. Use compressed air or a soft, dry brush. **Do not use lubricants or solvents.**
- **Replacement:** Always replace both carbon brushes at the same time, even if only one appears significantly worn. This ensures balanced performance and prevents premature wear on the commutator.

TROUBLESHOOTING

If you encounter issues with your power tool after installing the carbon brush set, consider the following common problems and solutions:

Problem	Possible Cause	Solution
Tool not starting or intermittent operation	Brushes not seated correctly; Worn brushes; Loose connections	Re-seat brushes; Replace brushes; Check and tighten screw terminals.
Excessive sparking at motor	Worn brushes; Dirty commutator; Incorrect brush type	Replace brushes; Clean commutator; Ensure correct Metabo brush set is used.
Reduced power or speed	Worn brushes; Carbon dust buildup	Replace brushes; Clean brush compartment and commutator.
Unusual motor noise	Brushes not seating properly; Damaged commutator	Allow for run-in period; Inspect commutator for damage (may require professional service).

If problems persist after following these steps, it is recommended to contact Metabo customer support or a certified service center.

SPECIFICATIONS

Key technical specifications for the Metabo XL Carbon Brush with Brush Holder Set 110V (Model 316066670):

- Model Number:** 316066670
- Operating Voltage:** 110 Volts (DC)
- Operation Mode:** Automatic
- Connector Type:** Screw Terminals
- Terminal Type:** Screw
- Circuit Type:** 1-way
- Actuator Type:** Push Button *(Refers to the mechanism within the holder, not user-actuated)*
- Contact Material:** Metal (Carbon)
- Number of Positions:** 1
- Control Method:** Remote *(Refers to the tool's overall control, not the brush itself)*
- Package Dimensions:** 18.5 x 15.75 x 14.96 inches
- Item Weight:** 0.32 ounces
- Manufacturer:** Metabo

WARRANTY AND SUPPORT

For information regarding warranty coverage, technical support, or authorized service centers for your Metabo product, please refer to the official Metabo website or contact their customer service directly.

Metabo Official Website: www.metabo.com

Always ensure you have your product model number (316066670) and purchase details ready when contacting support.

ASK A QUESTION ABOUT THIS MANUAL

Ask about setup, troubleshooting, compatibility, parts, safety, or missing instructions. Manuals+ will review the question and use this page's manual context to help answer it.

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Question

Example: How do I reset this device or fix this error?

Details

Model number, symptoms, what you tried, or the section of the manual you are using.

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