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Buildalot BHE 6026 S R+L

Buildalot Carbon Brushes for Metabo BHE 6026 S R+L SignA Hammer - Instruction Manual

Model: BHE 6026 S R+L

1. PRODUCT OVERVIEW

These Buildalot carbon brushes are designed as replacement components for the Metabo BHE 6026 S R+L SignA Hammer drill. Carbon brushes are essential for the proper functioning of electric motors, facilitating the transfer of electrical current to the motor's rotating parts. This set includes two carbon brushes, each equipped with a cable, spring, and connector, and features an automatic stop function for enhanced motor protection.

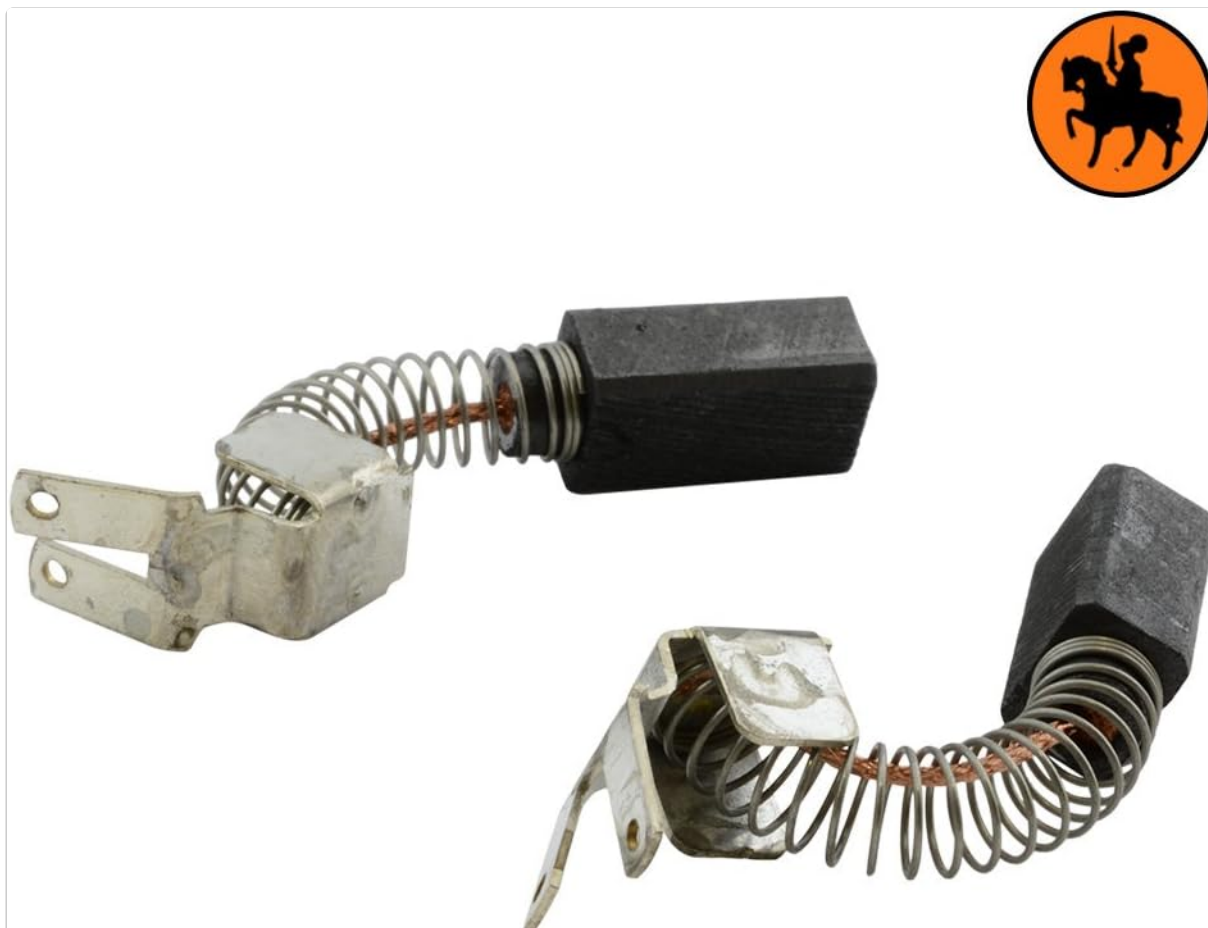


Image 1.1: A pair of Buildalot carbon brushes, showing the graphite block, coiled spring, and metal connector tabs. These brushes are designed for the Metabo BHE 6026 S R+L SignA Hammer.

2. PACKAGE CONTENTS

The package contains the following items:

- Two (2) Buildalot Carbon Brushes (6.3 x 8 x 15 mm)
- Integrated cables
- Integrated springs
- Integrated connectors

Note: Brush holders are not included. It is recommended to replace both carbon brushes simultaneously to ensure consistent motor performance and longevity.

3. INSTALLATION INSTRUCTIONS

1. **Safety First:** Before beginning any installation or maintenance, ensure the Metabo BHE 6026 S R+L SignA Hammer drill is disconnected from its power source to prevent accidental startup and electrical shock.
2. **Locate Brush Holders:** Identify the carbon brush access points on your Metabo hammer drill. These are typically covered by caps or screws on the motor housing.
3. **Remove Old Brushes:** Carefully remove the caps or screws. Extract the old carbon brushes, noting their orientation and how they connect to the motor. Disconnect the old brushes from their terminals.
4. **Inspect Brush Holders:** Clean any carbon dust or debris from the brush holders. Ensure the springs are free of obstruction.
5. **Install New Brushes:** Connect the new Buildalot carbon brushes to the appropriate terminals. Insert the new brushes into the brush holders, ensuring they slide freely and the springs apply proper pressure to the commutator. The automatic stop feature relies on the correct seating of the brush.
6. **Secure Brushes:** Replace the caps or screws, ensuring they are tightened securely but not overtightened.
7. **Test Functionality:** Reconnect the hammer drill to the power source. Briefly operate the tool to confirm proper function. Initial operation may produce minor sparking as the new brushes seat themselves; this is normal. If excessive sparking or unusual noise occurs, disconnect power and re-check installation.



Image 3.1: A simplified diagram illustrating the components of a carbon brush assembly, including the brush, spring, and connector. This helps visualize the parts involved in installation.

4. OPERATING PRINCIPLES (AUTOMATIC STOP FUNCTION)

These carbon brushes are equipped with an **automatic stop function**. This safety feature is designed to protect your power tool's motor. When a carbon brush wears down to a critical length, the automatic stop mechanism interrupts the electrical circuit, causing the motor to cease operation. This prevents potential damage to the motor's commutator, which can occur if worn brushes continue to operate, leading to

excessive sparking and overheating.

The automatic stop function helps to:

- Prevent damage to the motor's commutator.
- Reduce excessive sparking.
- Extend the overall lifespan of your power tool.

When the tool stops due to this function, it indicates that the carbon brushes have reached the end of their service life and require replacement.

5. MAINTENANCE

Regular inspection of your carbon brushes is recommended to ensure optimal performance and prevent unexpected tool stoppage. The lifespan of carbon brushes varies depending on tool usage and operating conditions.

- **Periodic Inspection:** Periodically check the carbon brushes for wear. If they appear significantly shortened or show signs of uneven wear, consider replacement.
- **Cleanliness:** Keep the motor housing and brush compartments free from dust and debris, which can impede brush movement and affect performance.
- **Replacement:** Always replace both carbon brushes at the same time, even if only one appears significantly worn. This ensures balanced current flow and consistent motor operation.

6. TROUBLESHOOTING

If your Metabo BHE 6026 S R+L SignA Hammer drill stops operating unexpectedly, consider the following:

- **Tool Stops Abruptly:** This is the primary indication that the automatic stop function has activated due to worn carbon brushes. Replace both carbon brushes as per the installation instructions.
- **Reduced Power or Intermittent Operation:** While less common with the automatic stop feature, this could indicate brushes that are nearing the end of their life or are not making proper contact. Inspect and replace if necessary.
- **Excessive Sparking:** New brushes may spark slightly as they seat. However, excessive or prolonged sparking after initial use may indicate improper installation or a commutator issue. Disconnect power and re-check brush seating.

If the issue persists after replacing the carbon brushes, consult a qualified technician or the tool manufacturer's service center.

7. SPECIFICATIONS

Product Type	Carbon Brushes (Set of 2)
Compatibility	Metabo BHE 6026 S R+L SignA Hammer Drill
Dimensions (L x W x H)	15 mm x 8 mm x 6.3 mm (0.63 x 0.8 x 1.5 cm)
Material	Graphite
Feature	Automatic Stop Function

Usage	Professional and Domestic
Manufacturer	Asein
Brand	Buildalot

8. WARRANTY AND SUPPORT

For any questions regarding the installation, performance, or compatibility of these Buildalot carbon brushes, please contact the seller directly. Information regarding specific warranty terms for this product may be available from your point of purchase.

Always refer to the original Metabo tool's instruction manual for comprehensive safety guidelines and maintenance procedures.