

## Buildalot P5723

# Buildalot Carbon Brushes for Black & Decker P5723 - Installation and Maintenance Guide

Model: P5723 | Brand: Buildalot

## INTRODUCTION

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This instruction manual provides essential information for the safe and effective installation, operation, and maintenance of your Buildalot Carbon Brushes, specifically designed for Black & Decker P5723 power tools. These carbon brushes feature an automatic stop function for enhanced motor protection.

Please read this manual thoroughly before attempting any installation or maintenance procedures. Keep this manual for future reference.

## SAFETY INFORMATION

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**WARNING: Always disconnect the power tool from the main power supply before performing any maintenance, installation, or repair work. Failure to do so can result in serious injury or electric shock.**

- Ensure the power tool is completely switched off and unplugged before starting.
- Wear appropriate personal protective equipment (PPE), such as safety glasses and gloves.
- Only use replacement parts that are specifically designed for your tool model.
- If you are unsure about any step, consult a qualified technician.
- Keep small parts away from children.

## PRODUCT OVERVIEW

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The Buildalot Carbon Brushes are critical components for the proper functioning of your Black & Decker P5723 electric motor. They conduct electricity to the motor's commutator, allowing the motor to spin. These brushes are designed with an integrated automatic stop feature, which prevents damage to the motor by stopping operation when the brushes are worn out.



**Figure 1:** A pair of Buildalot carbon brushes, showing the carbon block and attached wire with terminal connectors. These brushes are designed for specific Black & Decker P5723 models.



**Figure 2:** Side view of the carbon brushes, highlighting their compact design and the connection points.

## INSTALLATION INSTRUCTIONS

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Replacing carbon brushes is a common maintenance task for electric power tools. Follow these steps carefully:

1. **Prepare the Tool:** Ensure the Black & Decker P5723 tool is unplugged from the power source. Place it on a clean, stable work surface.
2. **Locate Brush Holders:** Identify the brush holders on your power tool. These are typically small caps or covers on the side of the motor housing. Refer to your specific Black & Decker P5723 tool's manual for exact locations if needed.

### 3. Remove Old Brushes:

- Carefully unscrew or unclip the brush holder caps.
- Gently pull out the old carbon brushes. Note their orientation and how they were seated in the brush holder.
- Disconnect the wire terminals from the tool's internal wiring.

4. **Inspect Commutator:** While the brushes are out, inspect the commutator (the copper segments on the motor's rotor). It should be clean and smooth. If it's excessively grooved or dirty, professional servicing may be required.

### 5. Install New Brushes:

- Connect the terminals of the new Buildalot carbon brushes to the tool's internal wiring. Ensure a secure connection.
- Carefully insert the new carbon brushes into the brush holders, ensuring they slide in smoothly and are oriented correctly. The carbon block should make proper contact with the commutator.
- The automatic stop feature means the brush will stop making contact when it wears down to a certain point, protecting your motor.



**Figure 3:** A detailed view of a single carbon brush, illustrating the wire connection and the carbon block designed to contact the motor's commutator.

6. **Secure Brush Holders:** Replace the brush holder caps and tighten them securely, but do not overtighten.
7. **Test Operation:** Plug the tool back into the power supply. Briefly run the tool at a low speed to allow the new brushes to seat properly. It is normal for new brushes to spark slightly during the initial break-in period. If excessive sparking or unusual noises occur, immediately switch off and unplug the tool and re-check the installation.

## OPERATING CONSIDERATIONS AFTER INSTALLATION

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After installing new carbon brushes, it is recommended to run the tool without load for a few minutes. This "break-in" period allows the brushes to conform to the shape of the commutator, ensuring optimal contact and extending brush life. During this time, minor sparking is normal. If sparking is excessive or persists, refer to the troubleshooting section.

## MAINTENANCE

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Regular inspection of your carbon brushes can help prevent motor damage and ensure consistent tool performance.

- **Periodic Inspection:** Depending on tool usage, inspect the carbon brushes every 50-100 hours of operation.
- **Check for Wear:** Replace brushes when they are worn down to approximately one-third of their original length. The automatic stop feature will typically halt tool operation before critical wear is reached.
- **Commutator Cleaning:** If the commutator appears dirty or has carbon buildup, it can be gently cleaned with a non-abrasive commutator cleaning stick or fine sandpaper (P600 or finer) while the motor is spinning slowly (if safe to do so, otherwise clean manually). Always ensure the tool is unplugged before manual cleaning.
- **Keep Vents Clear:** Ensure the tool's ventilation openings are clear of dust and debris to prevent overheating, which can accelerate brush wear.

## TROUBLESHOOTING

Problem	Possible Cause	Solution
Tool does not start or stops suddenly.	Worn-out carbon brushes (automatic stop activated). Improperly installed brushes. Loose wire connection.	Replace carbon brushes. Re-install brushes, ensuring correct orientation and seating. Check and secure wire terminals.
Excessive sparking from brush area.	Brushes not properly seated (new brushes). Dirty or damaged commutator. Incorrect brush type.	Run tool without load for break-in period. Clean or inspect commutator for damage. If damaged, seek professional repair. Ensure brushes are the correct model for your tool.
Reduced power or intermittent operation.	Partially worn brushes. Poor contact with commutator. Internal wiring issue.	Inspect and replace brushes if significantly worn. Ensure brushes move freely in their holders. Consult a qualified technician for internal wiring issues.

## SPECIFICATIONS

Feature	Detail
Product Type	Carbon Brushes
Compatibility	Black & Decker P5723
Dimensions (L x W x H)	6.3 x 12.5 x 24 mm (approx. 0.25 x 0.49 x 0.94 inches)
Feature	Automatic Stop Function
Quantity per Package	2 (one pair)
Manufacturer	Buildalot
Part Number	1879_Black & Decker_P5723

## WARRANTY AND SUPPORT

For specific warranty information regarding your Buildalot Carbon Brushes, please refer to the terms and

conditions provided at the point of purchase or contact Buildalot directly. While this manual provides general guidance, the manufacturer's official documentation for your specific Black & Decker P5723 tool should always be consulted for detailed repair procedures.

**Manufacturer & EU Representative:**

Buildalot BV  
Franciscusweg 10-A8  
1216 SK HILVERSUM  
Netherlands  
Email: [info@buildalot.nl](mailto:info@buildalot.nl)



**Figure 4:** Product packaging showing manufacturer details and contact information for Buildalot.