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Buildalot 0201_Black & Decker_DN231

Buildalot Carbon Brush Installation Guide

For Black & Decker DN231 Saw (6.35 x 6.35 x 13 mm)

Model: 0201_Black & Decker_DN231

INTRODUCTION

Carbon brushes are essential components in many electric motors, including those found in power tools like your Black & Decker DN231 saw. They conduct electricity to the motor's rotating parts (armature) and are designed to wear down over time. Regular inspection and timely replacement of worn carbon brushes are crucial for maintaining tool performance and extending its lifespan.

SETUP AND INSTALLATION

Safety First: Always disconnect the power tool from the electrical outlet before attempting any maintenance or installation. Wear appropriate safety gear, such as safety glasses.

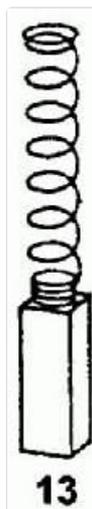
Tools Required: You may need a screwdriver (flathead or Phillips, depending on your saw model) and possibly pliers.

Step-by-Step Installation:

- Locate Brush Caps:** Identify the brush caps on the motor housing of your Black & Decker DN231 saw. These are typically small, round, or rectangular covers, often with a slot for a screwdriver.
- Remove Old Brushes:** Carefully unscrew or unclip the brush caps. The old carbon brush, along with its spring, will be inside. Gently pull out the old brush and spring assembly. Note how it was oriented.
- Inspect Brush Holders:** Clean any carbon dust from the brush holders. Ensure there are no obstructions.
- Insert New Brushes:** Take one of the new Buildalot carbon brushes (6.35 x 6.35 x 13 mm). Ensure the spring is properly attached to the brush. Carefully insert the new brush into the brush holder, making sure it slides in smoothly and the carbon end makes contact with the commutator. The spring should apply gentle pressure.
- Secure Brush Caps:** Replace the brush caps, screwing or clipping them firmly back into place. Do not overtighten.
- Repeat for Second Brush:** Most tools use two carbon brushes. Repeat the process for the second brush.



This image shows the two new Buildalot carbon brushes, each with its coiled spring, as they appear when packaged. These brushes are designed for the Black & Decker DN231 saw.



A schematic diagram of a carbon brush and its spring, highlighting the length dimension of 13mm. This visual aid helps confirm the correct size for replacement.

OPERATING AFTER INSTALLATION

After installing new carbon brushes, reconnect your Black & Decker DN231 saw to the power supply. Run the tool at a low speed for a few minutes without load. This allows the new brushes to seat properly against the commutator, which may produce a small amount of sparking initially. If excessive sparking or unusual noises persist, disconnect the tool and re-check the installation.

MAINTENANCE

Regularly inspect your carbon brushes, especially if the tool is used frequently. Check for signs of wear, such as excessive shortening of the carbon block or uneven wear patterns. Replace brushes when they are approximately one-third of their original length or if they show signs of damage.

TROUBLESHOOTING

- **Tool Not Starting:** Often caused by completely worn-out carbon brushes that no longer make contact with the commutator.
- **Intermittent Operation:** Can indicate brushes that are partially worn or sticking in their holders.
- **Excessive Sparking at Motor:** While some initial sparking is normal with new brushes, persistent or heavy sparking can indicate severely worn brushes, a dirty commutator, or incorrect brush installation.
- **Reduced Power or Speed:** Worn brushes can lead to inefficient power transfer, resulting in decreased tool performance.

If these issues occur, inspect and replace the carbon brushes as described in the 'Setup/Installation' section.

SPECIFICATIONS

Brand: Buildalot

Model Compatibility: Black & Decker DN231 Saw

Brush Dimensions (L x W x H): 6.35 mm x 6.35 mm x 13 mm (approximately 0.25 x 0.25 x 0.51 inches)

Quantity: 2 carbon brushes per package

Part Number: 0201_Black & Decker_DN231

WARRANTY AND SUPPORT

For product-specific warranty information or technical support, please refer to the documentation provided with your original Buildalot purchase or contact Buildalot customer service directly.