DEWALT 38461301

DEWALT Brush Assembly User Manual

Model: 384613-01

1. Introduction

This user manual provides essential information for the DEWALT Brush Assembly, model 384613-01. This component is a carbon brush designed for specific DEWALT and Black and Decker power tools. Proper installation and maintenance are crucial for the optimal performance and longevity of your tools.

2. Product Overview

The DEWALT Brush Assembly (Part Number: 384613-01) is a critical wear component in electric motors, particularly in chop saws. Carbon brushes conduct electricity between stationary wires and moving parts, such as the commutator of a motor. Over time, carbon brushes wear down and require replacement to maintain motor efficiency and prevent damage.

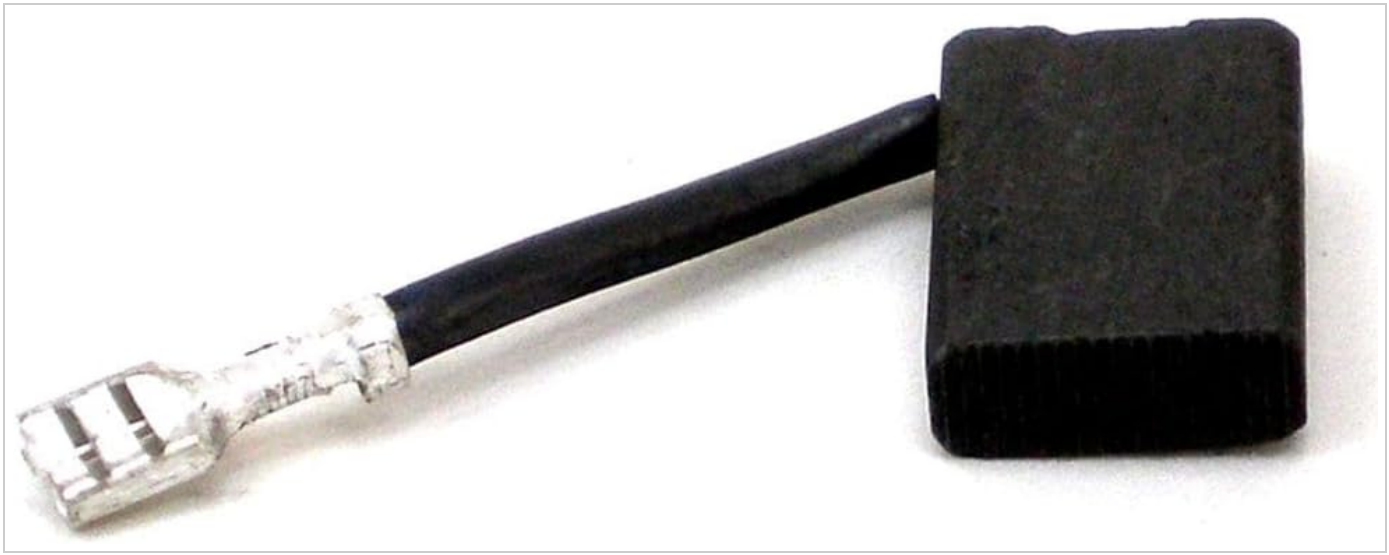


Figure 2.1: DEWALT Brush Assembly 384613-01. This image shows the carbon brush component with its attached wire and terminal connector.

This brush assembly is compatible with the following tools:

- **DEWALT Tools:**
  - DW871 Type 1 Chop Saw
  - DW872 Type 2 Chop Saw
- **Black and Decker Tools:**
  - GR871 Type 1 14 Chop Saw

3. Installation (Setup)

Replacing carbon brushes is a common maintenance task for power tools. Always refer to your specific tool's service manual for detailed, model-specific instructions. The following are general guidelines:

1. **Safety First:** Ensure the tool is unplugged from the power source before beginning any maintenance or installation.
2. **Locate Brush Caps:** Identify the brush caps on the motor housing. These are typically plastic or metal caps that can be unscrewed.
3. **Remove Old Brushes:** Unscrew the brush caps and carefully pull out the old carbon brushes. Note their orientation.
4. **Inspect Commutator:** While the brushes are out, inspect the commutator for wear or damage. It should be clean and smooth.
5. **Install New Brushes:** Insert the new DEWALT Brush Assembly (384613-01) into the brush holders, ensuring they slide in smoothly and are oriented correctly. The wire and terminal should connect securely.
6. **Secure Brush Caps:** Screw the brush caps back into place, ensuring they are snug but not overtightened.
7. **Test Tool:** Plug the tool back in and perform a brief test run to ensure the new brushes are functioning correctly. A short break-in period may be required, during which minor sparking is normal.

Note: If you are unsure about the installation process, it is recommended to consult a qualified technician or the tool's official service manual.

4. Operating Considerations

Once new brushes are installed, the tool should operate as intended. Pay attention to any unusual noises, excessive sparking, or loss of power, which could indicate improper installation or other motor issues. New brushes may require a short "break-in" period where they conform to the shape of the commutator, leading to optimal contact.

5. Maintenance

Carbon brushes are consumable parts designed to wear down over time. Regular inspection of the brushes is recommended, especially if the tool is used frequently. Replace brushes when they are worn down to approximately one-quarter of their original length or if they show signs of chipping or cracking. Keeping the motor's ventilation slots clear of dust and debris can also help prolong brush life and motor health.

6. Troubleshooting

If your tool experiences issues after brush replacement, consider the following:

- **No Power or Intermittent Power:**
  - Ensure brushes are fully seated and brush caps are tightened.
  - Check that the terminal connection is secure.

- Verify the brushes are the correct type and size for your tool.

- **Excessive Sparking:**
  - New brushes may spark slightly during break-in. If sparking is severe or persists, the commutator might be dirty or damaged.
  - Ensure brushes are installed correctly and not binding.

- **Burning Smell:**
  - Immediately unplug the tool. This could indicate severe motor issues, including commutator damage or incorrect brush installation. Seek professional assistance.

7. Specifications

Attribute	Detail
Brand	DEWALT
Part Number	384613-01
Item Model Number	38461301
Item Weight	1.01 pounds
Product Dimensions	1 x 1 x 1 inches
Compatible Tools (DEWALT)	DW871 Type 1 Chop Saw, DW872 Type 2 Chop Saw
Compatible Tools (Black and Decker)	GR871 Type 1 14 Chop Saw

8. Warranty and Support

For specific warranty information regarding replacement parts, please refer to the official DEWALT warranty policy or contact DEWALT customer support directly. Replacement parts typically carry a limited warranty against defects in materials and workmanship.
DEWALT Customer Support: For technical assistance, parts inquiries, or warranty claims, please visit the official DEWALT website or contact their customer service line. Always have your tool's model number and the part number (384613-01) ready when contacting support.
Note: This brush assembly is a replacement part. The warranty for the part may differ from the warranty of the complete tool.

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Question

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

Details

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