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CAAT TOOLS CAAT20170802002

CAAT TOOLS 4x8x18mm Motor Carbon Brushes Instruction Manual

Model: CAAT20170802002

1. Product Overview

These CAAT TOOLS carbon brushes are designed for high wear resistance, ensuring reliable performance in various applications. They are commonly used in continuous sealing machines, medical equipment, and centrifuges. This package includes 10 carbon brushes, each measuring 4x8x18mm.

Key Features:

- High wear resistance for extended lifespan.
- Dimensions: 4x8x18mm.
- Material: Carbon and Metal.
- Includes wire leads for easy connection.
- Suitable for continuous sealing machines, medical centrifuges, and similar equipment.



Figure 1: Overview of the 10-piece set of CAAT TOOLS 4x8x18mm motor carbon brushes. Each brush consists of a carbon block, a coiled spring, and a metal contact plate.

2. Product Specifications

Specification	Detail
Product Name	Motor Carbon Brushes
Brand	CAAT TOOLS
Model Number	CAAT20170802002
Carbon Brush Size	4mm x 8mm x 18mm
Material	Carbon & Metal
Item Weight	0.88 ounces (total package)
Package Dimensions	4.92 x 4.17 x 0.59 inches

Specification	Detail
Quantity	10 Pieces per lot
Application	Continuous sealing machines, medical centrifuges, and similar equipment.

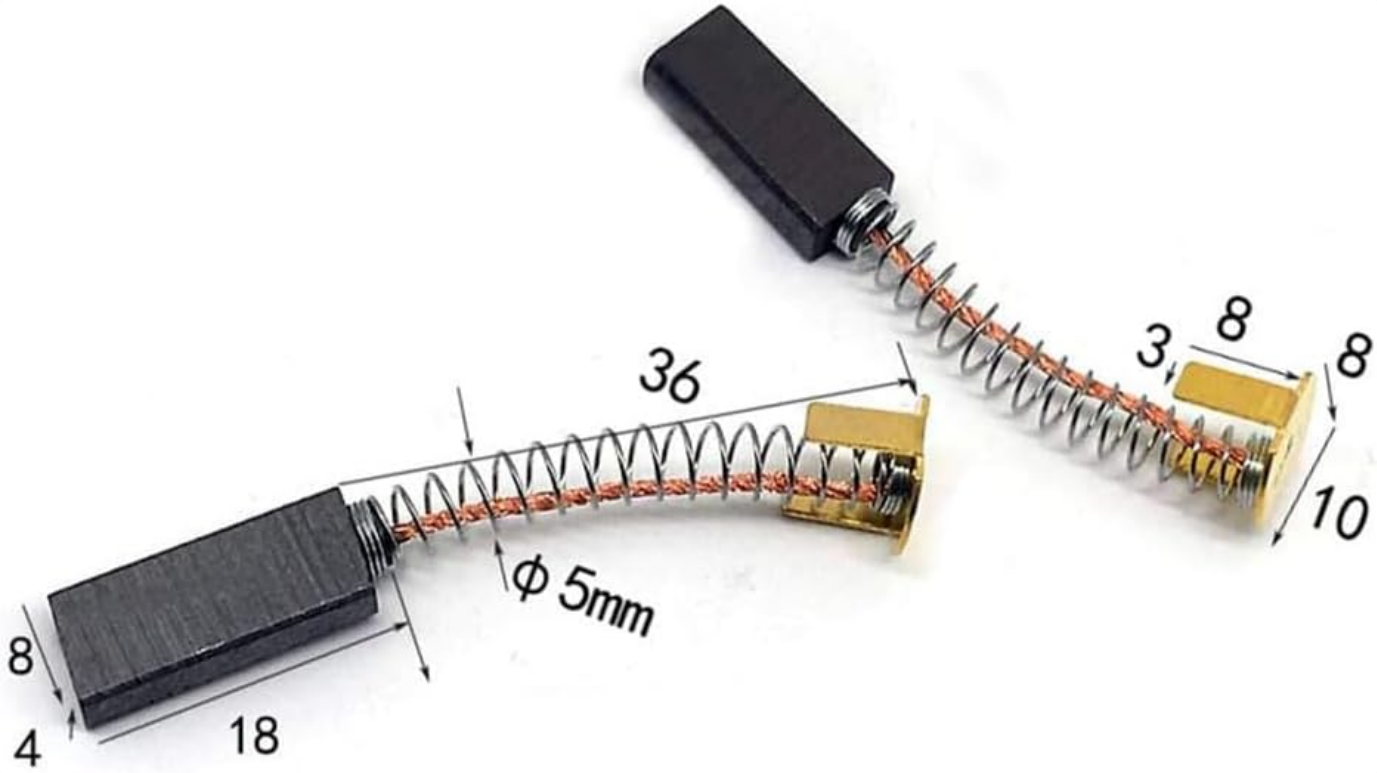


Figure 2: Dimensional drawing of a single carbon brush, indicating key measurements for verification.

3. Installation Instructions

Proper installation of carbon brushes is crucial for the optimal performance and longevity of your equipment. Always ensure the equipment is powered off and disconnected from its power source before beginning any installation or maintenance.

Safety Precautions:

- Always disconnect power to the equipment before servicing.
- Wear appropriate personal protective equipment (PPE), such as safety glasses.
- Refer to your equipment's specific service manual for detailed instructions on accessing and replacing carbon brushes.

Installation Steps:

1. **Access the Motor:** Locate and open the motor housing or brush compartment of your equipment. This may require removing screws or panels.
2. **Remove Old Brushes:** Carefully disconnect the wire leads from the old carbon brushes and remove them from their holders. Note their orientation for correct installation of the new brushes.
3. **Inspect Commutator:** While the brushes are out, inspect the commutator for wear, scoring, or excessive carbon dust. Clean if necessary, following your equipment's guidelines.
4. **Insert New Brushes:** Insert the new CAAT TOOLS carbon brushes into the brush holders. Ensure they slide freely and make proper contact with the commutator. The wire leads should be positioned correctly.

5. **Connect Wire Leads:** Securely connect the wire leads of the new brushes to the appropriate terminals.
6. **Reassemble:** Close the motor housing or brush compartment, ensuring all screws and panels are securely fastened.
7. **Test Operation:** Reconnect power to the equipment and perform a test run to ensure proper function. Listen for unusual noises and observe performance.



Figure 3: Close-up view of two carbon brushes, highlighting the carbon block, spring, and wire lead assembly.

4. Maintenance

Regular inspection and timely replacement of carbon brushes are essential for maintaining the efficiency and extending the lifespan of your motor. Carbon brushes are consumable parts and will wear down over time.

- **Routine Inspection:** Periodically inspect the carbon brushes for wear. The frequency of inspection depends on the equipment's usage and operating conditions.
- **Replacement:** Replace carbon brushes when they are worn down to approximately one-quarter of their original length, or if they show signs of chipping, cracking, or uneven wear.
- **Commutator Condition:** Always check the commutator for excessive wear or damage when replacing brushes. A damaged commutator can rapidly wear out new brushes.
- **Cleanliness:** Keep the brush holders and commutator free from carbon dust and debris to ensure proper electrical contact and prevent arcing.

5. Troubleshooting

If your equipment experiences issues related to motor performance, worn or improperly installed carbon brushes could be a contributing factor. Here are some common issues and potential solutions:

Symptom	Possible Cause	Solution
Reduced Motor Power/Speed	Worn carbon brushes, poor contact with commutator.	Inspect and replace carbon brushes if worn. Ensure brushes move freely in holders.
Excessive Sparking at Commutator	Worn brushes, dirty commutator, incorrect brush seating.	Replace worn brushes. Clean commutator. Ensure brushes are properly seated and making full contact.
Intermittent Motor Operation	Loose wire connections, brushes sticking in holders.	Check all wire connections. Ensure brushes slide smoothly without obstruction.
Unusual Noise from Motor	Worn brushes, damaged commutator, foreign debris.	Inspect brushes and commutator for damage. Clean out any debris.

If troubleshooting steps do not resolve the issue, consult a qualified technician or refer to your equipment's service manual.

6. Warranty and Support

As carbon brushes are consumable components, they typically do not come with an extended warranty against wear and tear. However, if you encounter any manufacturing defects or issues upon receiving your CAAT TOOLS carbon brushes, please contact the seller or manufacturer directly for assistance.
For technical support or inquiries regarding this product, please refer to the contact information provided by your retailer or the CAAT TOOLS official website.

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