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› defoo Carbon Motor Brushes for HF 10" 2.5 HP Tile/Brick Wet Saw - Instruction Manual

defoo 69275 62391

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Brand: defoo | Model/Part Numbers: 69275, 62391

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1. INTRODUCTION

This instruction manual provides essential information for the proper installation, function, and maintenance of defoo Carbon Motor Brushes, part numbers 69275 and 62391. These brushes are designed for use with HF 10" 2.5 HP Tile/Brick Wet Saws. Please read this manual thoroughly before attempting any installation or maintenance procedures to ensure safe and effective operation of your power tool.



Figure 1: defo Carbon Motor Brushes (Part Numbers 69275, 62391). These brushes are critical components for electrical contact in compatible motors.

2. INSTALLATION INSTRUCTIONS

Replacing carbon motor brushes requires careful attention to safety and proper procedure. Always ensure the power tool is disconnected from its power source before beginning any maintenance.

Safety Precautions:

- **Disconnect Power:** Always unplug the wet saw from the electrical outlet before servicing.
- **Wear Protective Gear:** Use safety glasses and gloves to protect against dust and sharp edges.
- **Refer to Tool Manual:** Consult your specific HF 10" 2.5 HP Tile/Brick Wet Saw's owner's manual for detailed instructions on accessing the motor brush compartments.

Step-by-Step Replacement:

1. **Locate Brush Caps:** Identify the brush caps on the motor housing of your wet saw. These are typically screw-on caps.

2. **Remove Old Brushes:** Unscrew the brush caps. Carefully pull out the old carbon brushes and their springs. Note their orientation.
3. **Clean Compartment:** Gently clean any carbon dust from the brush compartments using compressed air or a soft brush.
4. **Insert New Brushes:** Insert the new defoo carbon brushes (Part Numbers 69275, 62391) into the compartments, ensuring the carbon block slides smoothly and the spring applies pressure to the brush. The copper wire should be correctly positioned.
5. **Secure Brush Caps:** Screw the brush caps back into place, tightening them securely but without over-tightening.
6. **Test Operation:** Reconnect the wet saw to power. Briefly run the tool to ensure proper function. Initial sparking is normal as the new brushes seat, but excessive sparking or unusual noises should prompt immediate shutdown and re-inspection.



Figure 2: A single defoo Carbon Motor Brush. Observe the spring and copper wire for correct installation.

3. PRODUCT FUNCTION

Carbon motor brushes are essential components in many electric motors, including those found in wet saws. Their primary function is to conduct electrical current from the stationary part of the motor (stator) to the rotating part (rotor or armature). As the motor operates, the carbon brushes make continuous contact with the commutator, transferring electricity to power the motor's rotation. Over time, these brushes wear down due to friction and electrical arcing, necessitating replacement to maintain motor performance.

4. MAINTENANCE

Regular inspection of carbon motor brushes is crucial for the longevity and efficient operation of your HF 10" 2.5 HP Tile/Brick Wet Saw. Worn brushes can lead to reduced power, intermittent operation, or motor failure.

- **Periodic Inspection:** Depending on usage, inspect the carbon brushes every 50-100 hours of operation.
- **Check for Wear:** Replace brushes when they are worn down to approximately one-quarter of their original length, or if they show signs of chipping or uneven wear.
- **Cleanliness:** Ensure the brush compartments and commutator are free from excessive carbon dust

buildup.

- **Proper Seating:** New brushes may require a short break-in period to fully seat against the commutator, during which minor sparking is normal.

5. TROUBLESHOOTING

If your wet saw experiences issues after brush replacement or during normal operation, consider the following:

Symptom	Possible Cause	Solution
Reduced power or intermittent operation	Worn or improperly seated carbon brushes; excessive carbon dust.	Inspect and replace brushes if worn. Ensure brushes are correctly seated. Clean brush compartments.
Excessive sparking at the motor	Worn brushes; dirty or damaged commutator; incorrect brush type.	Replace brushes. Clean commutator. Ensure correct defoo brushes (69275, 62391) are used.
Motor fails to start	Completely worn brushes; power supply issue; other motor fault.	Check power connection. Inspect and replace brushes. If problem persists, consult a qualified technician.

6. SPECIFICATIONS

The following specifications apply to the defoo Carbon Motor Brushes (Part Numbers 69275, 62391):

- **Part Numbers:** 69275, 62391
- **Compatibility:** HF 10" 2.5 HP Tile/Brick Wet Saw
- **Material:** Carbon
- **Wattage (Tool):** 1865 watts (referring to the compatible tool's power rating)
- **Item Weight:** Approximately 0.01 Kilograms (0.246 ounces) per set
- **Package Dimensions:** Approximately 3.46 x 2.32 x 0.39 inches

7. SUPPORT AND WARRANTY

For further assistance or inquiries regarding defoo Carbon Motor Brushes, please refer to the retailer where the product was purchased. Specific warranty information is typically provided at the point of sale or within the product packaging. Always ensure you are using genuine defoo replacement parts for optimal performance and compatibility.

For general information about defoo products, you may visit the **defoo Store on Amazon**.