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Durablow MFB SC03A Fireplace Blower Fan Variable Speed Control User Manual

Model: MFB SC03A | Brand: Durablow

1. INTRODUCTION AND OVERVIEW

The Durablow MFB SC03A is a variable speed electric motor control designed for fireplace and stove blower fans. This rheostat allows precise adjustment of your fan's speed, optimizing heat distribution and comfort. It is suitable for various fan and blower applications, providing flexible control over airflow.

2. PRODUCT FEATURES

- Variable Speed Electric Motor Control for fireplace fan / fireplace blower kit.
- Rheostat function allows precise speed control for any compatible fan.
- Applications include fans, blowers, and fireplace blowers.
- Wires measure 6 inches long, designed for easy cutting and stripping.
- D-Shaped Stem measures 1/4 inch for knob attachment.
- Technical Specifications: Volts 120; Frequency (hertz) 60; MAX Consumption (watts) 300.
- UL Approved for safety and quality assurance.

3. SAFETY INFORMATION

Always observe basic safety precautions when installing or operating this product to reduce the risk of personal injury or damage to equipment. Read all instructions before using this product.

- Ensure the power supply is disconnected before any installation or wiring.
- Do not operate in damp or wet locations. Avoid exposure to moisture.
- Do not use any tools or devices that require more than 300 watts with this speed controller.
- Keep children away from the installation area.
- Before use, carefully check the device for any damage. If damaged, do not use and contact the manufacturer.
- Use proper size and type of extension cord if one is required. An undersized cord could overheat and cause fire or electrical damage.

4. SETUP AND INSTALLATION

This speed control is designed for integration into your fireplace or stove blower fan's electrical system. It interrupts the black (hot) wire of the blower's power supply to regulate speed.

4.1 Components Overview



Figure 1: Durablow MFB SC03A Variable Speed Control Unit. This image shows the compact black control unit with two wires extending from it, ready for installation.



Figure 2: Control unit with the knob detached, revealing the D-shaped stem and mounting hardware.



Figure 3: All components of the speed control, including the main unit, control knob, washer, and nut for secure mounting.



Figure 4: The speed control unit shown mounted on a standard metal faceplate, illustrating a typical installation appearance.



Figure 5: A blank metal faceplate with mounting screws, indicating where the speed control can be installed.

4.2 Wiring Instructions

1. **Disconnect Power:** Before beginning any wiring, ensure the power supply to the fireplace or stove blower is completely disconnected at the circuit breaker.
2. **Identify Wires:** Locate the power cord for your blower fan. Typically, it will have a black (hot), white (neutral), and green (ground) wire. The speed control will only interact with the black (hot) wire.
3. **Cut the Black Wire:** Carefully cut the black (hot) wire of the blower's power cord at a suitable point for installation.
4. **Connect Speed Control:** The Durablow MFB SC03A has two wires. Connect one wire from the speed control to one end of the cut black wire from the blower's power cord. Use appropriate wire connectors (e.g., wire nuts) to ensure a secure connection. The color of the speed control wires does not matter for this connection.
5. **Connect Second Speed Control Wire:** Connect the second wire from the speed control to the other end of the cut black wire from the blower's power cord. Again, use a secure wire connector.
6. **Secure Mounting:** Mount the speed control unit in a desired location, such as a control panel or faceplate, using the provided mounting nut and knob. Ensure it is stable and protected from heat or moisture.
7. **Restore Power:** Once all connections are secure and the unit is mounted, restore power to the blower fan.

5. OPERATING INSTRUCTIONS

To operate the Durablow MFB SC03A variable speed control:

1. **Turn On:** Rotate the control knob clockwise from the 'OFF' position. The fan will start at its lowest speed setting.
2. **Adjust Speed:** Continue rotating the knob clockwise to gradually increase the fan speed. Rotate counter-clockwise to decrease the fan speed.

3. **Turn Off:** Rotate the control knob fully counter-clockwise until it clicks into the 'OFF' position. The fan will stop.

6. MAINTENANCE

The Durablow MFB SC03A requires minimal maintenance. Follow these guidelines to ensure optimal performance and longevity:

- **Regular Inspection:** Periodically inspect the control unit and its wiring for any signs of wear, damage, or loose connections.
- **Cleaning:** Keep the control knob and surrounding area clean and free of dust and debris. Use a soft, dry cloth for cleaning. Do not use liquid cleaners or solvents.
- **Environmental Protection:** Ensure the unit is not exposed to excessive heat, moisture, or corrosive environments.

7. TROUBLESHOOTING

Problem	Possible Cause	Solution
Fan does not turn on.	No power to the unit. Loose wiring connection. Faulty blower fan.	Check power supply and circuit breaker. Inspect and secure all wire connections. Test the blower fan directly without the speed control.
Fan speed does not adjust.	Incorrect wiring. Speed control unit is faulty. Blower fan not compatible with variable speed control.	Review wiring instructions and ensure correct installation. Replace the speed control unit. Consult your blower fan's manual for compatibility.
Unit feels hot during operation.	Overload (device wattage exceeds 300W). Poor ventilation.	Ensure connected device does not exceed 300W. Disconnect immediately if overheating. Ensure the unit has adequate airflow around it.

8. SPECIFICATIONS

Specification	Detail
Model Name	MFB SC03A
Brand	Durablow
Voltage	120 Volts
Frequency	60 Hz
Max Consumption	300 Watts
Product Dimensions	1"D x 1.5"W x 0.7"H
Item Weight	1.76 Ounces
Stem Size	1/4" D-Shaped
Approval	UL Approved
Indoor/Outdoor Usage	Indoor

9. WARRANTY AND SUPPORT

For warranty information or technical support, please refer to the documentation provided with your purchase or contact Durablow customer service directly. Keep your purchase receipt for warranty claims.