

Fluke/Bussmann DMM-B-11A, DMM-44/100

Fluke/Bussmann Digital Multimeter Replacement Fuses User Manual

Models: DMM-11A & DMM-44/100 Combo Pack

1. INTRODUCTION AND PRODUCT OVERVIEW

This manual provides essential information for the safe and effective use and replacement of Fluke/Bussmann Digital Multimeter Fuses. This combo pack includes one DMM-11A fuse and one DMM-44/100 fuse, designed as direct replacements for specific Fluke digital multimeters. These fuses are critical safety components that protect your multimeter from overcurrent conditions, preventing damage to the device and ensuring user safety. The DMM-11A is an 11 Amp, 1000 Volt fast-acting fuse, while the DMM-44/100 is a 440 milliAmp, 1000 Volt fuse. Both are constructed with a melamine tube for durability and reliable performance.

2. SAFETY INFORMATION

WARNING: Electrical shock hazard. Always follow proper safety procedures when working with electrical devices.

- **Disconnect Power:** Before attempting any fuse replacement, ensure the multimeter is completely powered off and disconnected from all test leads and power sources.
- **Use Correct Fuse:** Always replace a blown fuse with a fuse of the exact same type, voltage rating, and current rating as specified by your multimeter's manufacturer. Using an incorrect fuse can lead to serious injury, fire, or damage to the multimeter.
- **Consult Multimeter Manual:** Refer to your specific multimeter's user manual for detailed instructions on how to access and replace its fuses. Procedures may vary between models.
- **Inspect Fuses:** Visually inspect new fuses for any signs of damage before installation.
- **Professional Assistance:** If you are unsure about any step, or if fuses repeatedly blow, consult a qualified technician.

3. PRODUCT COMPONENTS AND PACKAGE CONTENTS

Your package contains the following items:

- 1 x DMM-11A Digital Multimeter Replacement Fuse (11A, 1000V)
- 1 x DMM-44/100 Digital Multimeter Replacement Fuse (440mA, 1000V)



Image: The DMM-11A and DMM-44/100 replacement fuses. The DMM-11A is typically marked with '11A' and the DMM-44/100 with '44/100' or '440mA'. Both are cylindrical with metal end caps.

4. SETUP AND INSTALLATION (FUSE REPLACEMENT)

Replacing a multimeter fuse requires careful attention to safety and adherence to the multimeter's specific design. The general steps are as follows:

1. **Power Off and Disconnect:** Turn off your digital multimeter and disconnect all test leads from the meter and any circuits.
2. **Access Fuse Compartment:** Most multimeters require opening the battery compartment or the entire case to access the fuses. Refer to your multimeter's manual for precise instructions on how to open it safely. Some models may have screws that need to be removed.
3. **Locate Blown Fuse:** Identify the blown fuse. A blown fuse often has a visible break in the internal wire or a darkened glass tube (if applicable). Multimeters typically have separate fuses for different functions (e.g., current measurement ranges). Ensure you are replacing the correct fuse for the affected function.
4. **Remove Old Fuse:** Carefully remove the blown fuse from its clips. Avoid bending or damaging the fuse clips.
5. **Insert New Fuse:** Insert the new, correct replacement fuse (DMM-11A or DMM-44/100 as needed) firmly into the fuse clips. Ensure it is seated properly and securely.
6. **Reassemble Multimeter:** Carefully close the multimeter case, ensuring all screws are tightened and the case is properly sealed.
7. **Test Functionality:** Before using the multimeter on live circuits, perform a basic test (e.g., continuity check,

battery voltage measurement) to confirm proper operation.

5. OPERATING PRINCIPLES

Fuses are passive safety devices. They do not 'operate' in the traditional sense like an active electronic component. Instead, they function as sacrificial components designed to melt and break an electrical circuit when the current flowing through them exceeds a safe level. This action protects the more sensitive and expensive internal components of the digital multimeter from damage due to overloads or short circuits.

When a fuse blows, it indicates that an excessive current condition occurred. This could be due to an incorrect measurement range selection, a fault in the circuit being tested, or an accidental short circuit.

6. MAINTENANCE

Fuses generally require no maintenance other than replacement when they blow. However, it is good practice to:

- **Keep Spares:** Always have spare fuses of the correct type and rating readily available, especially if you frequently work with electrical circuits.
- **Proper Storage:** Store fuses in a dry, cool place, away from direct sunlight and extreme temperatures, to maintain their integrity.
- **Periodic Inspection:** While not typically necessary, if your multimeter is opened for other reasons (e.g., battery replacement), a quick visual check of the fuses for any signs of stress or discoloration can be performed.

7. TROUBLESHOOTING

The primary 'troubleshooting' scenario for these fuses involves a multimeter malfunction due to a blown fuse.

Symptom:

- Multimeter does not power on.
- Specific functions (e.g., current measurement, certain voltage ranges) do not work or display 'OL' (Overload) when they should not.
- No reading or an incorrect reading when measuring current.

Cause:

- A fuse has blown due to an overcurrent condition.

Solution:

- Identify which fuse is blown (refer to your multimeter's manual for fuse locations and functions).

- Replace the blown fuse with the correct Fluke/Bussmann replacement fuse (DMM-11A or DMM-44/100) following the installation steps in Section 4.

Important: If fuses blow repeatedly after replacement, there may be an underlying issue with the multimeter itself or the way it is being used. Discontinue use and seek professional repair or contact Fluke customer support.

8. SPECIFICATIONS

Feature	DMM-11A Fuse	DMM-44/100 Fuse
Current Rating	11 Amps	440 milliAmps (0.44 Amps)
Voltage Rating	1000 Volts	
Type	Fast Acting Digital Multimeter Replacement Fuse	
Construction Material	Melamine Tube	
Dimensions (Diameter x Length)	0.406" Dia x 1.500" L (10.30mm x 38.00mm)	0.406" Dia x 1.375" L (10.31mm x 34.93mm)
Total Package Weight	Approximately 0.32 ounces (for both fuses)	

9. WARRANTY AND SUPPORT

These replacement fuses are consumable components designed to protect your equipment. Due to their nature as protective devices that are consumed upon failure, these fuses are typically non-returnable once shipped. For support regarding the functionality or repair of your Fluke digital multimeter, please refer to the official Fluke website or contact Fluke customer service directly. This manual pertains specifically to the replacement fuses and not the multimeter itself.

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