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Eaton GFCB230

Eaton GFCB230 30 Amp Double Pole GFCI Circuit Breaker User Manual

Model: GFCB230 | Brand: Eaton

Introduction

This manual provides essential information for the safe installation, operation, and maintenance of the Eaton GFCB230 30 Amp Double Pole Ground Fault Circuit Interrupter (GFCI) Circuit Breaker. Please read these instructions thoroughly before proceeding with any installation or operation.

The Eaton GFCB230 is designed to provide ground fault protection for electrical circuits, reducing the risk of electrical shock. It is a 30 Amp, 2-pole breaker suitable for 240 Volt applications in compatible BR-type load centers.

Important Safety Information

WARNING: Risk of Electric Shock or Fire.

- Installation and servicing must be performed by a qualified electrician in accordance with all national and local electrical codes.
- Always turn off the main power supply at the service panel before working on electrical circuits or equipment.
- Use only insulated tools.
- Verify that the circuit breaker rating (amperage and voltage) matches the requirements of the circuit and load center.
- Do not use this device if it appears damaged.
- Ensure proper grounding.

Failure to follow these instructions can result in serious injury or death.

Package Contents

- Eaton GFCB230 30 Amp Double Pole GFCI Circuit Breaker
- Instruction Sheet (this manual)

Setup and Installation

Before beginning, ensure the main power to the electrical panel is OFF. Confirm with a voltage tester.

Step 1: Prepare the Load Center

Locate an available space in your compatible Eaton BR-type load center. Ensure there is enough space for a double-pole breaker.



Image: The Eaton GFCB230 GFCI circuit breaker, showing its main body and the white pigtail neutral wire. This view helps identify the breaker type and its components before installation.

Step 2: Connect Load Wires

Connect the two hot load wires (typically black and red for 240V circuits) to the appropriate terminals on the breaker. Tighten screws to the manufacturer's specified torque. Do not overtighten.

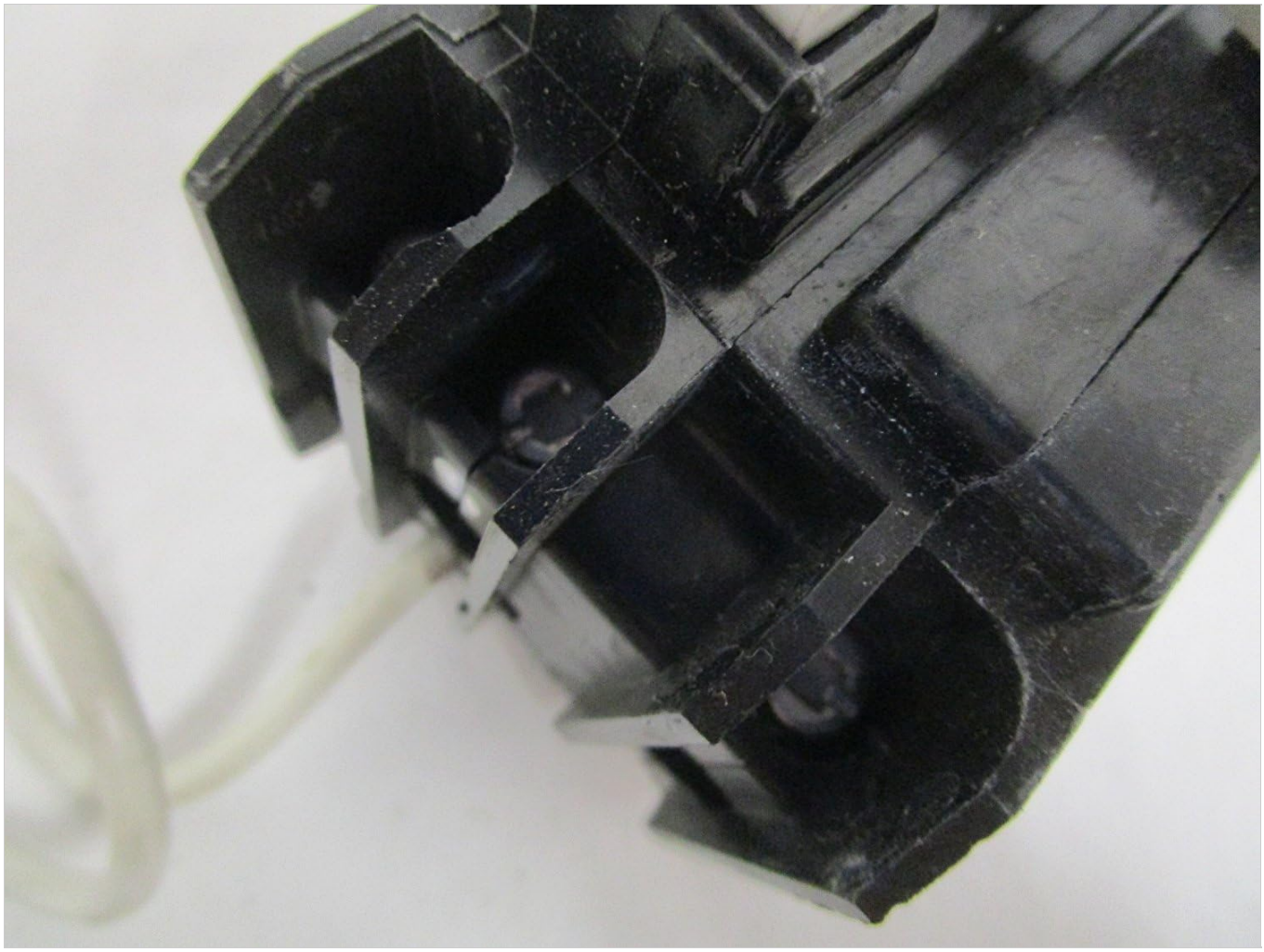


Image: A close-up view of the terminal screws on the Eaton GFCB230 circuit breaker. This illustrates where the load wires should be connected and secured.

Step 3: Connect Neutral Pigtail

The GFCI breaker has a white "pigtail" neutral wire. Connect this wire to the neutral bus bar in the load center. Ensure a secure connection.

Step 4: Install Breaker

Align the breaker clips with the bus bar stabs in the load center. Press firmly until the breaker is securely seated. Ensure it is fully engaged.

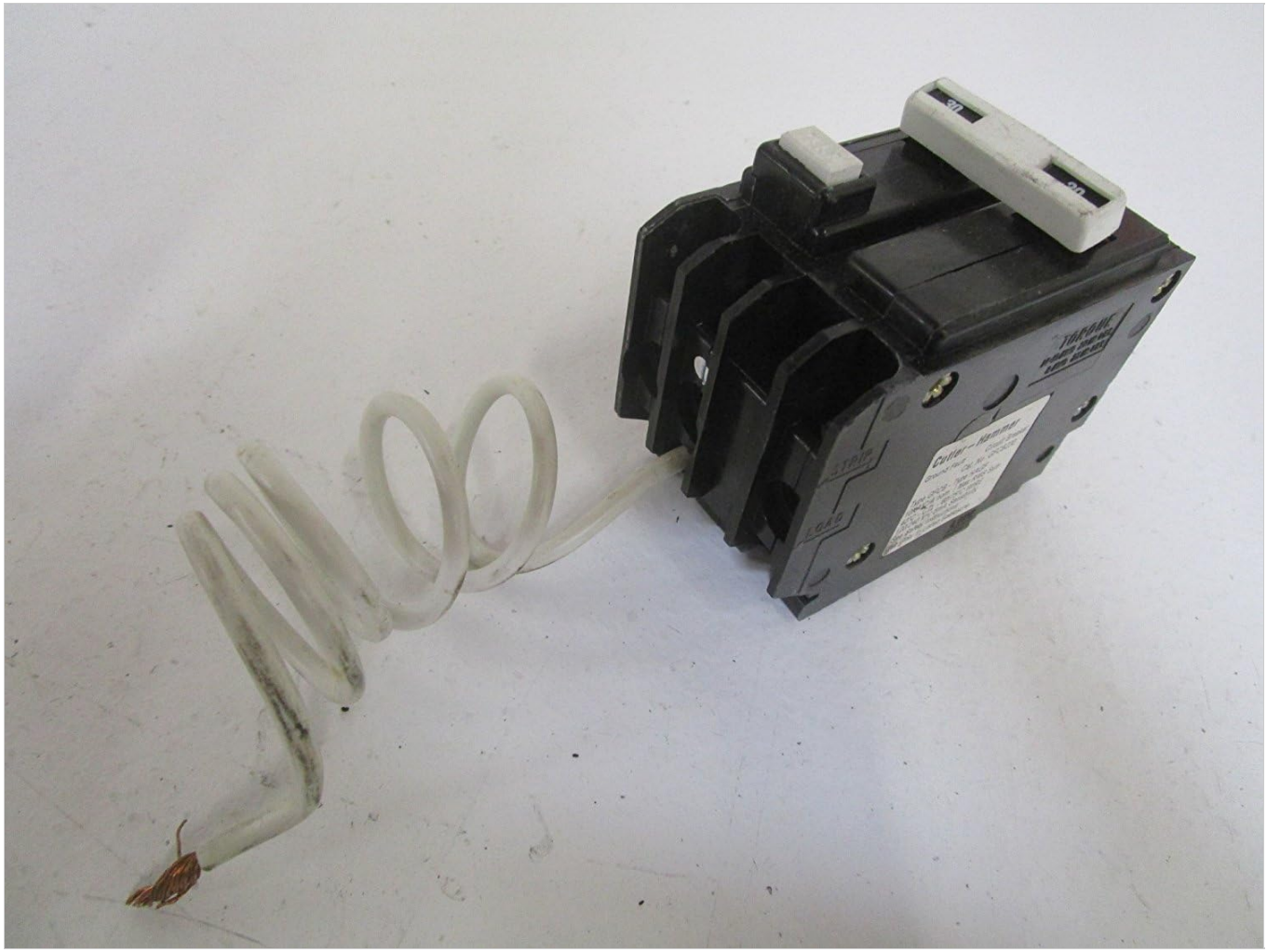


Image: A detailed view of the product label on the Eaton GFCB230 circuit breaker. This label provides critical information such as type, catalog number, amperage, voltage, and sensitivity, which should be verified before installation.

Step 5: Restore Power and Test

Once the breaker is installed and all connections are secure, close the load center panel cover. Restore main power to the panel. Turn the GFCI breaker to the "ON" position. Press the "TEST" button on the breaker. The breaker should trip to the "OFF" position. Reset the breaker by pushing the handle fully to "OFF" and then to "ON". If it does not trip, consult the troubleshooting section or contact a qualified electrician.

Operating Instructions

Turning On/Off

- To turn the circuit ON, push the breaker handle firmly to the "ON" position.
- To turn the circuit OFF, push the breaker handle firmly to the "OFF" position.

GFCI Test Procedure

It is recommended to test the GFCI breaker monthly to ensure proper operation.

1. Ensure the breaker is in the "ON" position.
2. Press the "TEST" button located on the front of the breaker.
3. The breaker should immediately trip to the "OFF" position, indicating it is functioning correctly.
4. To restore power, push the handle fully to "OFF" and then back to "ON".
5. If the breaker does not trip when the "TEST" button is pressed, the GFCI may be faulty and should be replaced immediately by a qualified electrician.

Maintenance

The Eaton GFCB230 GFCI circuit breaker requires minimal maintenance. Regular monthly testing as described in the "Operating Instructions" section is crucial to ensure its protective function.

- **Visual Inspection:** Periodically inspect the breaker for any signs of physical damage, discoloration, or loose connections. If any issues are observed, turn off power and consult a qualified electrician.
- **Cleaning:** Keep the area around the breaker clean and free of dust and debris. Do not use liquids or sprays directly on the breaker or inside the electrical panel.

Troubleshooting

Problem	Possible Cause	Solution
Breaker trips frequently.	Overload on the circuit. Ground fault in the circuit or connected appliance. Faulty appliance.	Reduce the load on the circuit. Unplug appliances one by one to identify the faulty one. Inspect wiring for damage. If problem persists, consult an electrician.
Breaker does not reset.	Persistent ground fault. Breaker is faulty.	Ensure all appliances are unplugged from the circuit. Try resetting again. If it still doesn't reset, the breaker may be damaged or there's a severe fault. Consult an electrician.
No power to circuit after installation/reset.	Breaker not fully engaged. Loose wiring connection. Main power not restored.	Ensure breaker is firmly seated in the load center. Turn off main power and check all wire connections. Verify main power to the panel is ON.

For issues not resolved by these steps, contact a qualified electrician.

Specifications

Model	GFCB230
Brand	Eaton (Cutler-Hammer)
Current Rating	30 Amps
Voltage	240 Volts
Number of Poles	2
Breaker Type	GFCI (Ground Fault Circuit Interrupter), BR Type (Type GFCB - Type HAGF)
Sensitivity	5mA
Interrupting Rating	10 kAIC (10,000 Amps Interrupting Capacity)
Wire Temperature Rating	40°C - CTL - 60/75°C WIRE
UPC/GTIN	782116957408, 782114753293

Warranty and Support

Eaton products are manufactured to high-quality standards. For specific warranty information, please refer to the documentation included with your purchase or visit the official Eaton website. For technical support or further assistance, please contact Eaton customer service or a qualified electrician.

You can find more information and support resources on theEaton official website.

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