

Square D QO24L70RB

Square D QO24L70RB Load Center Instruction Manual

Model: QO24L70RB | Brand: Square D

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1. INTRODUCTION

This manual provides essential instructions for the safe installation, operation, and maintenance of the Square D QO24L70RB Load Center. This device is designed to distribute electrical power safely within a residential or commercial setting. Please read this manual thoroughly before proceeding with any installation or service to ensure proper function and safety.

2. IMPORTANT SAFETY INFORMATION

WARNING: Risk of electric shock, explosion, or arc flash. This equipment must be installed and serviced only by qualified electrical personnel. Such work should be performed only after reading this entire set of instructions and understanding the hazards involved. Failure to follow these instructions will result in death or serious injury.

- Always de-energize the electrical system before working on the load center.
- Use properly rated voltage sensing device to confirm power is off.
- Wear appropriate personal protective equipment (PPE) including arc flash protection.
- Never work alone.
- Lock out and tag out the main power source.
- Do not use this equipment for purposes other than those specified in this manual.
- Ensure all local and national electrical codes are followed.

3. SETUP AND INSTALLATION

3.1 Pre-Installation Checks

- Verify that the load center rating matches the electrical service requirements.
- Inspect the load center for any shipping damage. Do not install damaged equipment.
- Ensure all necessary tools and materials are available.

3.2 Mounting the Load Center

The QO24L70RB Load Center is designed for wall mounting. Select a suitable location that is dry, easily accessible, and free from obstructions. Ensure the mounting surface is structurally sound to support the weight of the load center and associated

wiring.

1. Mark the desired mounting location on the wall.
2. Securely fasten the load center to the wall using appropriate hardware (not included) through the designated mounting holes. Ensure it is level and plumb.



Figure 1: Square D QO24L70RB Load Center with its front cover opened, revealing the internal bus bars, circuit breaker slots, and essential warning labels. The robust metal casing and clear labeling are visible, indicating a ready-to-install electrical distribution unit.

3.3 Wiring Connections

All wiring must comply with the National Electrical Code (NEC) and local codes. Refer to the wiring diagram located inside the load center cover for specific connection points.

1. Route incoming service conductors into the load center through appropriate knockouts.
2. Connect the main service conductors to the main lugs, ensuring proper torque as specified on the label.
3. Connect the neutral conductor to the neutral bus bar.
4. Connect the grounding conductor to the ground bus bar.
5. Install QO circuit breakers into the bus bar assembly.
6. Connect branch circuit conductors to their respective circuit breakers.
7. Ensure all connections are tight and secure.

4. OPERATION

Once installed and wired correctly, the Square D QO24L70RB Load Center operates by distributing electrical power to various circuits through individual circuit breakers. Each circuit breaker protects its respective circuit from overcurrents and short circuits.

4.1 Circuit Breaker Functionality

- **ON Position:** The breaker handle is fully pushed towards the "ON" indicator, allowing power to flow through the circuit.
- **OFF Position:** The breaker handle is fully pushed towards the "OFF" indicator, interrupting power to the circuit.
- **TRIPPED Position:** If an overload or short circuit occurs, the breaker handle will move to a center position, indicating it has tripped to protect the circuit. To reset a tripped breaker, first push the handle firmly to the "OFF" position, then push it to the "ON" position. If the breaker immediately trips again, there is a fault in the circuit that needs to be addressed by a qualified electrician.

5. MAINTENANCE

Regular maintenance helps ensure the longevity and safe operation of your load center. All maintenance should be performed by qualified personnel with the power disconnected.

5.1 Periodic Inspection

- Annually inspect the load center for signs of overheating, such as discoloration of wires or insulation.
- Check for loose connections. Tighten any loose terminals to the specified torque.
- Ensure all circuit breakers are securely seated in their positions.
- Verify that all labels and warnings are legible and intact.

5.2 Cleaning

With the power completely off, use a dry, non-conductive brush or vacuum cleaner to remove any dust, dirt, or debris from inside the load center. Do not use liquids or abrasive cleaners.

6. TROUBLESHOOTING

Before attempting any troubleshooting, ensure the main power supply to the load center is disconnected. Only qualified personnel should perform troubleshooting and repairs.

Problem	Possible Cause	Solution
No power to a specific circuit	Circuit breaker tripped	Reset the circuit breaker (OFF then ON). If it trips again, investigate the circuit for overload or short circuit.
Frequent tripping of a breaker	Overloaded circuit, short circuit, or faulty appliance	Reduce load on the circuit, unplug appliances, or have an electrician inspect the wiring and appliances.
Load center feels warm	Normal operation under load, or loose connections/overload	Monitor temperature. If excessively hot or accompanied by burning smell, immediately disconnect power and call an electrician. Check for loose connections.
Burning smell from load center	Overheating, loose connection, or internal fault	Immediately disconnect main power. Do not attempt to operate. Contact a qualified electrician immediately.

7. SPECIFICATIONS

- **Model:** QO24L70RB
- **Brand:** Square D
- **Circuit Breaker Type:** Standard QO
- **Mounting Type:** Wall Mount
- **Number of Main Poles:** 2
- **Voltage:** 240 Volts
- **Item Weight:** 4 pounds
- **Product Dimensions:** 5 x 10 x 8 inches
- **UPC:** 785901785132
- **Date First Available:** November 18, 2014

8. WARRANTY INFORMATION

The Square D QO24L70RB Load Center comes with a **1-year manufacturer's warranty**. This warranty covers defects in materials and workmanship under normal use and service. For specific terms and conditions, please refer to the warranty documentation included with your product or contact Square D customer support.

9. CUSTOMER SUPPORT

For technical assistance, troubleshooting beyond this manual, or warranty claims, please contact Square D customer support. Visit the official Square D website for the most current contact information, including phone numbers and online support resources.

Note: Always provide the model number (QO24L70RB) when contacting support to expedite service.

ASK A QUESTION ABOUT THIS MANUAL

Ask about setup, troubleshooting, compatibility, parts, safety, or missing instructions. Manuals+ will review the question and use this page's manual context to help answer it.

Name

Anonymous

Email

you@example.com

After a successful submission, we securely hash the supplied account or form email before sending it to Microsoft Advertising for conversion attribution. [Privacy details](#).

Question

Example: How do I reset this device or fix this error?

Details

Model number, symptoms, what you tried, or the section of the manual you are using.

Submit question