

Square D SQDRFK10

Instruction Manual

Square D SQDRFK10 SQ D RFK10 100A Class R Fuse KIT
Model: SQDRFK10 | Brand: Square D

1. INTRODUCTION

This manual provides essential information for the safe and effective use of the Square D RFK10 100A Class R Fuse Kit. This kit is designed to provide overcurrent protection in electrical systems, specifically for use with Class R fuses. Please read this manual thoroughly before installation or operation.

2. SAFETY INFORMATION

WARNING: Electrical shock hazard. Installation and servicing should be performed only by qualified personnel. Failure to follow these instructions can result in death, serious injury, or equipment damage.

- Always disconnect power before working on electrical equipment.
- Use appropriate personal protective equipment (PPE), such as insulated gloves and eye protection.
- Ensure all local and national electrical codes are followed during installation.
- Do not use this fuse kit with fuses other than Class R type.
- Verify the fuse rating matches the circuit requirements.

3. PRODUCT OVERVIEW

The RFK10 kit includes components necessary for installing 100A Class R fuses. These components are designed for secure and reliable fuse mounting within compatible electrical enclosures.



Figure 1: Components of the RFK10 Fuse Kit. The image displays three identical metal fuse clips, each featuring a flat base for mounting and a curved, spring-loaded arm that extends upwards and then curves downwards, ending in a pointed tip. These clips are designed to securely hold a Class R fuse in place within an electrical panel or disconnect switch.

4. SETUP AND INSTALLATION

Proper installation is critical for the safe operation of the fuse kit. Refer to the specific wiring diagram of your electrical panel or disconnect switch for exact placement and connection points.

1. **Power Disconnection:** Ensure all power to the circuit where the fuse kit will be installed is completely disconnected and locked out. Verify with a voltage tester.
2. **Mounting:** Securely mount the fuse clips (components of the RFK10 kit) within the designated fuse holder area of your electrical enclosure. Use appropriate fasteners as specified by the enclosure manufacturer.
3. **Fuse Insertion:** Carefully insert the 100A Class R fuse into the mounted clips. Ensure the fuse is seated firmly and makes proper electrical contact with both clips. The clips are designed to provide a tight, secure grip on the fuse terminals.
4. **Wiring:** Connect the circuit wires to the appropriate terminals on the fuse clips or associated bus bars, following the electrical diagram. Ensure all connections are tight and secure to prevent loose connections and overheating.
5. **Verification:** Double-check all connections and ensure no tools or debris are left inside the enclosure.
6. **Power Restoration:** Close the enclosure door and restore power to the circuit.

Note: The RFK10 kit is specifically designed for 100A Class R fuses. Using other fuse types or ratings may compromise safety and performance.

5. OPERATING PRINCIPLES

The Square D RFK10 fuse kit functions as a passive component within an electrical circuit, providing a secure housing for a Class R fuse. The fuse itself is an overcurrent protection device designed to melt and open the circuit when current exceeds a safe level for a specified duration, thereby protecting downstream equipment and wiring from damage due to overloads or short circuits.

Once installed, the fuse kit requires no active operation. Its purpose is to maintain the integrity of the fuse connection and facilitate easy replacement when a fuse blows.

6. MAINTENANCE

The RFK10 fuse kit itself requires minimal maintenance. However, periodic inspection of the fuse and its connections is recommended as part of a regular electrical system maintenance schedule.

- **Visual Inspection:** Periodically inspect the fuse clips for any signs of corrosion, discoloration (indicating overheating), or physical damage.
- **Connection Check:** Ensure all wire connections to the fuse clips remain tight. Loose connections can lead to increased resistance and heat buildup.
- **Cleaning:** If necessary, gently clean the fuse clips and surrounding area with a dry, non-conductive cloth. Do not use abrasive cleaners or solvents.
- **Fuse Replacement:** If a fuse blows, always replace it with a new fuse of the exact same type (Class R) and rating (100A) as specified for the circuit. Never bypass a blown fuse or replace it with a fuse of a higher rating.

7. TROUBLESHOOTING

The primary "troubleshooting" associated with a fuse kit involves addressing a blown fuse.

Symptom: Circuit has no power.

Possible Cause: The 100A Class R fuse has blown.

Solution:

- 1. **Identify Cause:** Before replacing the fuse, identify and rectify the cause of the overcurrent (e.g., short circuit, overloaded equipment, faulty appliance). Replacing a fuse without addressing the underlying issue will likely result in the new fuse blowing immediately.
- 2. **Disconnect Power:** Ensure all power to the circuit is disconnected and verified before attempting fuse replacement.
- 3. **Remove Blown Fuse:** Carefully remove the blown fuse from the RFK10 clips.
- 4. **Install New Fuse:** Insert a new 100A Class R fuse into the clips, ensuring it is securely seated.
- 5. **Restore Power:** Once the cause is resolved and the new fuse is installed, restore power to the circuit.

If the fuse continues to blow after replacement and the cause of the overcurrent cannot be identified, consult a qualified electrician.

8. SPECIFICATIONS

Attribute	Value
Brand	Square D
Model Number	SQDRFK10
Part Number	RFK10
Amperage Capacity	100 Amps
Fuse Class Compatibility	Class R
Color	Black
Item Weight	4 pounds
Product Dimensions	5 x 10 x 8 inches
Country of Origin	USA
Included Components	SQDRFK10 (Fuse Kit Components)

9. WARRANTY INFORMATION

This Square D RFK10 Fuse Kit is covered by a **1-year manufacturer's warranty** from the date of purchase. This warranty covers defects in materials and workmanship under normal use and service. For warranty claims or further details, please contact Square D customer support or refer to the official Square D website.

10. CUSTOMER SUPPORT

For technical assistance, product inquiries, or support, please contact Square D directly.

Manufacturer: Square D (a brand of Schneider Electric)

Please visit the official Square D website for the most current contact information and resources.

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