

[Manuals.plus](#) /

› [CJGHJNFF](#) /

› CJGHJNFF Refrigerator Compressor PTC Starter Overheat Protector (QP2-22Ω) Instruction Manual

CJGHJNFF QP2-22Ω

CJGHJNFF Refrigerator Compressor PTC Starter Overheat Protector (QP2-22Ω)

Instruction Manual

1. PRODUCT OVERVIEW

The CJGHJNFF Refrigerator Compressor PTC Starter Overheat Protector (Model QP2-22Ω) is a critical safety and operational component designed for refrigerator compressors. This unit combines a Positive Temperature Coefficient (PTC) starter with an overheat protector, a starter capacitor, and an overload relay to ensure the safe and efficient functioning of your refrigerator's cooling system.

Its primary function is to prevent the compressor from overheating, which can lead to damage or failure. The PTC starter assists the compressor in its initial startup phase, while the overload relay provides protection against excessive current draw. The circular protector offers an additional layer of safety. Constructed from durable materials, this 2-pin component is designed for reliable, long-lasting performance and is compatible with various refrigerator compressor models.

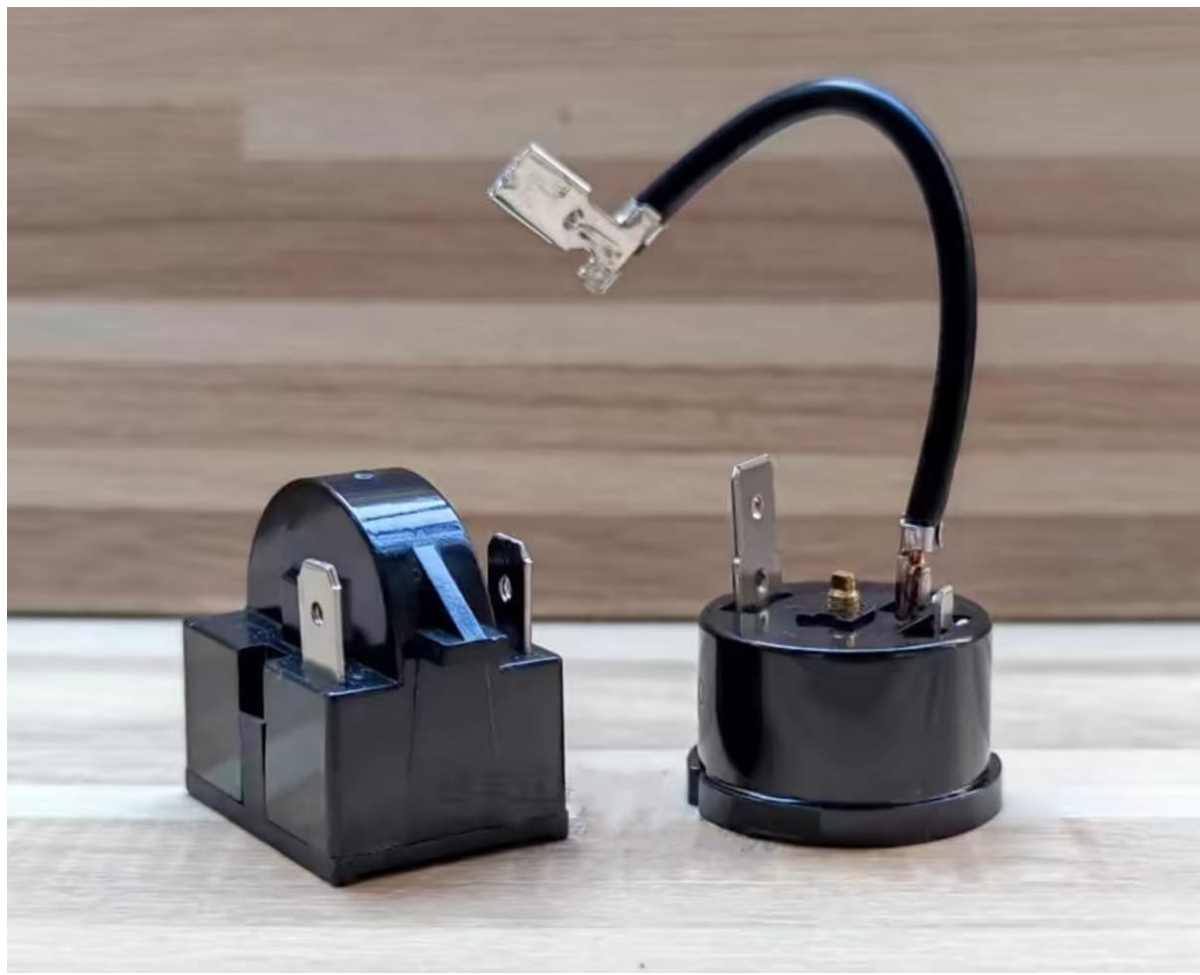


Figure 1: Components of the Refrigerator Compressor PTC Starter Overheat Protector. The image displays two main parts: a rectangular PTC starter and a circular overload protector with an attached wire and terminal.

2. SAFETY INFORMATION

Please read all safety instructions carefully before installation or maintenance. Failure to follow these instructions may result in electric shock, fire, or personal injury.

- **Disconnect Power:** Always ensure the refrigerator is unplugged from the power outlet before attempting any installation, repair, or maintenance.
- **Qualified Personnel:** Installation and servicing should only be performed by qualified and experienced technicians.
- **Electrical Hazards:** Be aware of live electrical components. Avoid touching wires or terminals unless power is disconnected.
- **Component Compatibility:** Ensure this protector is compatible with your specific refrigerator model and compressor specifications (e.g., QP2-22Ω resistance).
- **Proper Tools:** Use appropriate insulated tools for electrical work.
- **Environmental Conditions:** Do not expose the component to moisture or extreme temperatures.

3. INSTALLATION INSTRUCTIONS

This section provides general guidance for installing the PTC Starter Overheat Protector. Specific steps may vary depending on your refrigerator model. It is highly recommended that installation be performed by a professional technician.

1. **Power Disconnection:** Unplug the refrigerator from the main power supply.

2. **Access Compressor:** Locate and access the refrigerator compressor compartment, typically at the back or bottom of the unit. This may involve removing a cover panel.
3. **Identify Existing Components:** Carefully identify the existing PTC starter and overload protector connected to the compressor. Note their orientation and wiring.
4. **Remove Old Components:** Gently disconnect the wires and carefully remove the old PTC starter and overload protector from the compressor terminals.
5. **Install New Components:** Connect the new CJGHJNFF PTC Starter Overheat Protector (QP2-22Ω) to the corresponding terminals on the compressor. Ensure a secure and correct connection for both the 2-pin PTC starter and the circular overload protector. Refer to the original wiring diagram of your refrigerator if available.
6. **Secure Components:** Ensure all components are securely attached and wires are not pinched or exposed.
7. **Reassemble:** Replace any cover panels removed during access.
8. **Restore Power:** Plug the refrigerator back into the power outlet.
9. **Test Operation:** Monitor the refrigerator for proper operation, ensuring the compressor starts and runs correctly.

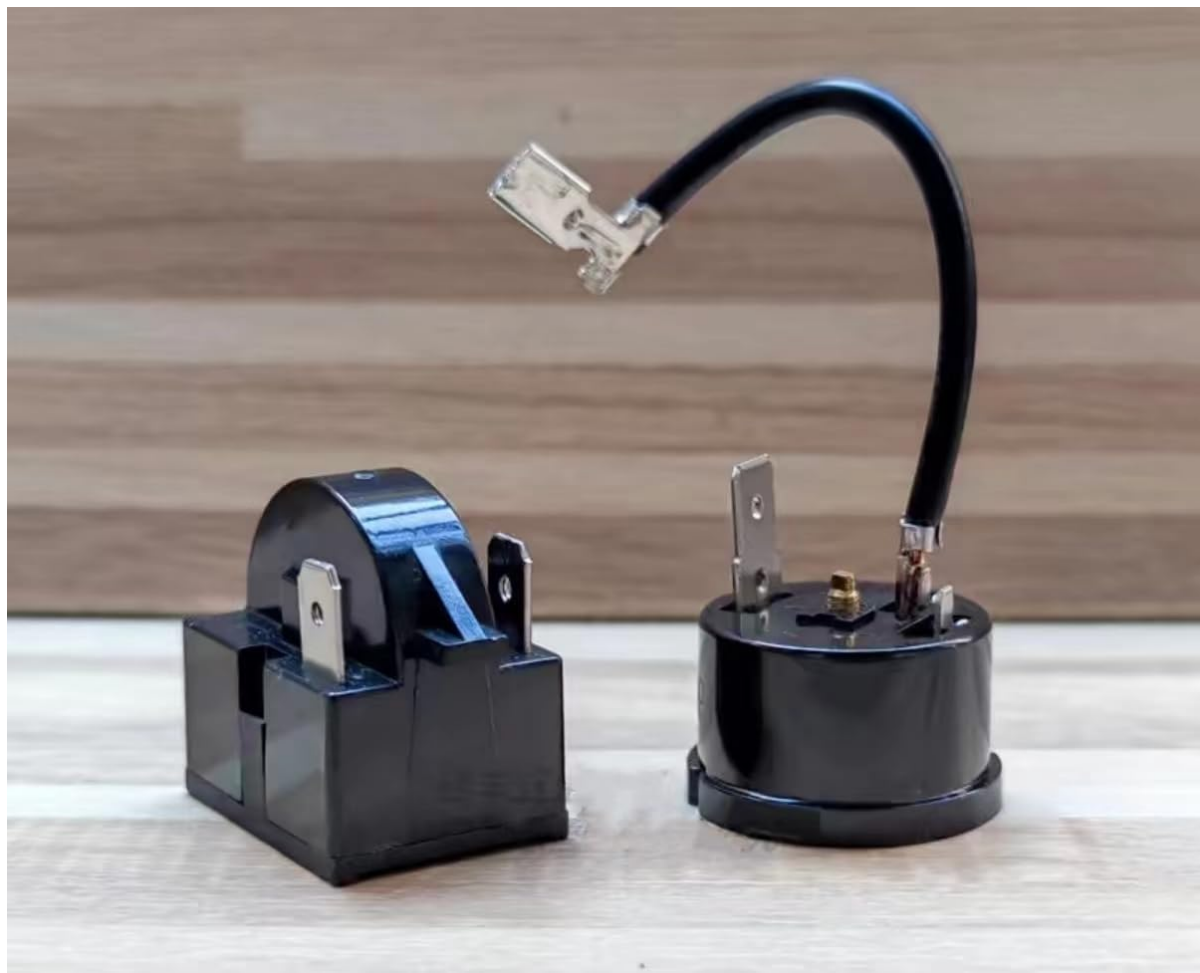


Figure 2: The PTC starter and overload protector, ready for connection to the compressor terminals. Note the 2-pin configuration on the starter and the wire connecting to the circular protector.

4. OPERATION

The CJGHJNFF Refrigerator Compressor PTC Starter Overheat Protector is an automatic component. Once correctly installed, it operates autonomously to manage the compressor's startup and protect it from overheating and electrical overloads. No manual intervention is required for its operation.

- The PTC starter provides a temporary low resistance path to help the compressor motor start, then its

resistance increases rapidly to disconnect the start winding.

- The overload relay monitors the current drawn by the compressor. If the current exceeds a safe limit, it will trip, temporarily shutting down the compressor to prevent damage.
- The overheat protector senses excessive temperature, providing an additional layer of safety by interrupting power if the compressor becomes too hot.

5. MAINTENANCE

This component is designed for minimal maintenance. However, periodic inspection can help ensure its continued reliability.

- **Visual Inspection:** Annually, or if issues arise, visually inspect the protector for any signs of physical damage, discoloration, or loose connections. Ensure the refrigerator is unplugged before inspection.
- **Cleanliness:** Keep the compressor area clean and free from dust and debris to ensure proper heat dissipation.
- **Replacement:** If the protector shows signs of damage or malfunction, it should be replaced immediately with a compatible part.

6. TROUBLESHOOTING

If your refrigerator is experiencing issues related to compressor startup or protection, the PTC starter and overload protector may be involved. Always ensure the refrigerator is unplugged before performing any checks.

Symptom	Possible Cause	Action
Compressor does not start (clicking sound)	Faulty PTC starter or overload protector.	Inspect the PTC starter and overload protector for damage. Test for continuity/resistance if possible. Replace if faulty.
Refrigerator not cooling, compressor hot	Overheat protector tripping due to compressor issues or protector failure.	Check for proper ventilation around the compressor. If the compressor is excessively hot, there might be a system issue. Test or replace the overheat protector.
Compressor cycles on and off rapidly	Faulty overload relay or PTC starter, or underlying compressor issue.	Inspect and test the overload relay and PTC starter. Ensure proper electrical connections. Consult a technician if the issue persists.
Visible damage or burning smell from component	Component failure due to electrical surge or wear.	Immediately disconnect power. Replace the damaged component with a new, compatible one.

For complex issues or if you are unsure about performing repairs, it is always recommended to contact a certified appliance technician.

7. SPECIFICATIONS

- **Product Type:** Refrigerator Compressor PTC Starter Overheat Protector
- **Model:** QP2-22Ω
- **Pin Configuration:** 2 Pins
- **Resistance:** 22Ω (Ohms)
- **Function:** Compressor startup assistance, overheat protection, overload protection

- **Components:** PTC Starter, Overload Relay, Circular Protector
- **Brand:** CJGHJNFF
- **ASIN:** B0D8WPHB8W

8. WARRANTY AND SUPPORT

This CJGHJNFF product is manufactured to high-quality standards. For information regarding warranty coverage, returns, or technical support, please refer to the retailer's policy where the product was purchased or contact CJGHJNFF customer service through their official channels. Please retain your proof of purchase for any warranty claims.