

Manuals.plus /

› WANZHASHIWO /

› WANZHASHIWO Refrigerator Freezer PTC Starter Thermal Protector Relay User Manual (Models 6SP9009, 6SP9015, 6SP9018, 6SP9022, 6SP9030, 6SP9083)

**WANZHASHIWO 6SP9009, 6SP9015, 6SP9018, 6SP9022, 6SP9030, 6SP9083**

# WANZHASHIWO Refrigerator Freezer PTC Starter Thermal Protector Relay User Manual

Models: 6SP9009, 6SP9015, 6SP9018, 6SP9022, 6SP9030, 6SP9083

## 1. INTRODUCTION

---

This manual provides essential information for the safe and effective installation, operation, and maintenance of your WANZHASHIWO Refrigerator Freezer PTC Starter Thermal Protector Relay. This component is designed to protect the compressor motor in refrigerators and freezers by providing a starting boost and thermal overload protection. Please read this manual thoroughly before installation or use.

## 2. SAFETY INFORMATION

---

**WARNING:** Electrical shock hazard. Always disconnect power to the appliance before servicing. Failure to do so can result in serious injury or death.

- Ensure the appliance is unplugged from the power source before beginning any installation or maintenance.
- If you are not familiar with electrical repairs, it is recommended to seek assistance from a qualified technician.
- Wear appropriate personal protective equipment, such as insulated gloves and safety glasses.
- Verify that the replacement part is compatible with your appliance model before installation.

## 3. PRODUCT OVERVIEW

---

The WANZHASHIWO PTC Starter Thermal Protector Relay is a critical component for refrigerator and freezer compressors. It combines a Positive Temperature Coefficient (PTC) thermistor for starting the compressor and a thermal overload protector to prevent damage from overheating. This relay is compatible with various models, including 6SP9009, 6SP9015, 6SP9018, 6SP9022, 6SP9030, and 6SP9083.



Figure 1: General view of two WANZHASHIWO PTC Starter Thermal Protector Relays. The relay on the right clearly displays '6SP9015' and 'EP2M2ABJX' markings.



Figure 2: Close-up view of a WANZHASHIWO PTC Starter Thermal Protector Relay, specifically model 6SP9009, showing its electrical terminals.



Figure 3: Two WANZHASHIWO PTC Starter Thermal Protector Relays, with '6SP9018' clearly visible on the side of one unit, indicating the model number.



Figure 4: An example image showing two WANZHASHIWO PTC Starter Thermal Protector Relays. While the image displays '6SP9033', the product is compatible with models such as 6SP9009, 6SP9015, 6SP9018, 6SP9022, 6SP9030, and 6SP9083.

#### 4. SETUP AND INSTALLATION

---

Installation of the PTC Starter Thermal Protector Relay typically involves replacing an existing faulty component. It is crucial to ensure the correct relay model is used for your specific refrigerator or freezer.

1. **Disconnect Power:** Unplug the refrigerator or freezer from the wall outlet to completely remove power.
2. **Access Compressor:** Locate the compressor compartment, usually at the back or bottom of the appliance.

You may need to remove a cover panel.

3. **Identify Old Relay:** The old relay is typically attached to the side of the compressor. Note its orientation and how it is connected.
4. **Disconnect Wiring:** Carefully disconnect any wires attached to the old relay. Take a photo or make a diagram if necessary to remember the wiring configuration.
5. **Remove Old Relay:** Gently pull or unclip the old relay from the compressor terminals.
6. **Install New Relay:** Align the new WANZHASHIWO relay with the compressor terminals and push it firmly into place until it clicks or is securely seated.
7. **Reconnect Wiring:** Reconnect the wires to the new relay exactly as they were on the old one. Ensure all connections are secure.
8. **Replace Cover:** Reattach any cover panels removed earlier.
9. **Restore Power:** Plug the appliance back into the wall outlet.
10. **Test Operation:** Listen for the compressor to start and observe if the appliance begins to cool properly.

If you encounter any difficulties or are unsure about any step, consult a professional appliance technician.

## 5. OPERATING INSTRUCTIONS

---

The PTC Starter Thermal Protector Relay operates automatically as part of the refrigerator's cooling system. It does not require manual operation. Once correctly installed, it will:

- Provide a temporary boost to help the compressor motor start.
- Disconnect the start winding once the compressor is running.
- Monitor the compressor's temperature and disconnect power if an overload condition occurs, protecting the motor from damage.

Proper functioning of the relay is indicated by the normal operation of your refrigerator or freezer, including consistent cooling and the compressor cycling on and off as expected.

## 6. MAINTENANCE

---

The WANZHASHIWO PTC Starter Thermal Protector Relay is a sealed component and requires no routine maintenance. However, periodic checks of the electrical connections can help ensure long-term reliability.

- **Annual Inspection:** Annually, with the power disconnected, visually inspect the relay and its wiring for any signs of corrosion, loose connections, or physical damage.
- **Cleanliness:** Ensure the compressor compartment is free from excessive dust and debris, which can impede heat dissipation.

If any issues are observed, refer to the Troubleshooting section or consult a qualified technician.

## 7. TROUBLESHOOTING

---

If your refrigerator or freezer is experiencing issues, the PTC Starter Thermal Protector Relay might be a contributing factor. Here are some common symptoms and potential solutions:

Symptom	Possible Cause	Solution
Compressor not starting (clicking sound)	Faulty PTC starter relay	Replace the relay.
Compressor attempts to start but immediately shuts off	Overload protector tripping due to faulty relay or compressor issue	Replace the relay. If the problem persists, the compressor may be faulty.
Refrigerator/Freezer not cooling	Relay failure preventing compressor operation	Check and replace the relay if necessary.
Burnt smell from compressor area	Overheated or shorted relay	Immediately disconnect power and inspect the relay for visible damage. Replace if damaged.

**Note:** Always disconnect power before inspecting or replacing any components. If troubleshooting steps do not resolve the issue, professional assistance is recommended.

## 8. SPECIFICATIONS

Attribute	Detail
Brand	WANZHASHIWO
Compatible Models	6SP9009, 6SP9015, 6SP9018, 6SP9022, 6SP9030, 6SP9083
Type	PTC Starter Thermal Protector Relay
Item Weight	1.76 ounces (approx. 50 grams)
Package Dimensions	1.18 x 0.79 x 0.39 inches (approx. 3 x 2 x 1 cm)
Item Package Quantity	1
Origin	Mainland China
ASIN	B0D2H1YYQJ

## 9. WARRANTY AND SUPPORT

For information regarding warranty coverage, returns, or technical support for your WANZHASHIWO PTC Starter Thermal Protector Relay, please contact the seller or manufacturer directly through your purchase platform. Keep your proof of purchase for any warranty claims.