

Subzero 7006594

Subzero Defrost Terminator 7006594 Instruction Manual

1. INTRODUCTION

This manual provides essential information for the safe and effective use, installation, and maintenance of the Subzero Defrost Terminator, Model 7006594. This component is designed to regulate the defrost cycle in compatible Subzero freezers and refrigerators, ensuring optimal performance and preventing excessive frost buildup. Please read this manual thoroughly before attempting any installation or service.

2. SAFETY INFORMATION

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

- Ensure the appliance is unplugged from the wall outlet or the circuit breaker is turned off before beginning any work.
- Wear appropriate personal protective equipment, including safety glasses and gloves.
- If you are unsure about any part of the installation process, consult a qualified appliance technician.
- Do not modify the defrost terminator or use it for any purpose other than its intended function.
- Keep children and pets away from the work area.

3. PRODUCT OVERVIEW

The Subzero Defrost Terminator 7006594 is a critical component of your freezer's automatic defrost system. Its primary function is to monitor the temperature of the evaporator coils during the defrost cycle. When the coils reach a specific temperature, indicating that all frost has melted, the terminator signals the defrost heater to turn off, preventing unnecessary heating and ensuring energy efficiency.



Image 1: Subzero Defrost Terminator 7006594. This image shows the compact design of the defrost terminator, typically featuring a bimetal disc or sensor enclosed in a protective casing with electrical leads for connection within the freezer's wiring harness.

This model is designed for compatibility with specific Subzero freezer models that utilize an automatic defrost system. It is a compact, durable component engineered for reliable performance.

4. SETUP AND INSTALLATION

Installation of the defrost terminator typically involves replacing an existing faulty unit. Due to the electrical nature and specific placement within the freezer's sealed system, professional installation by a qualified technician is highly recommended.

General Installation Steps (for qualified technicians):

1. **Disconnect Power:** Ensure the appliance is completely disconnected from its power source.
2. **Access Evaporator Compartment:** Carefully remove interior panels to gain access to the evaporator coil and the existing defrost terminator. This may involve removing shelves, ice makers, or other components.
3. **Locate and Remove Old Terminator:** Identify the old defrost terminator, which is usually clipped onto the evaporator coil or located nearby. Disconnect its electrical connectors.
4. **Install New Terminator:** Connect the new Subzero Defrost Terminator 7006594 to the appropriate electrical leads. Ensure connections are secure. Mount the new terminator in the same location and orientation as the original, typically clipped directly to the evaporator coil.
5. **Reassemble:** Carefully reassemble all removed panels and components.
6. **Restore Power:** Plug the appliance back in or restore power at the circuit breaker.
7. **Test Operation:** Monitor the freezer for proper operation, including the defrost cycle.

Refer to your specific freezer model's service manual for detailed diagrams and instructions.

5. OPERATING PRINCIPLES

The Defrost Terminator 7006594 operates as part of an automatic defrost system. During normal cooling cycles, frost accumulates on the evaporator coils. Periodically, the freezer enters a defrost cycle, during which a defrost heater activates to melt this frost.

The defrost terminator acts as a safety and efficiency switch. It is typically a bimetal thermostat that remains closed during normal operation, allowing power to the defrost heater when the defrost timer initiates a cycle. Once the evaporator coil temperature rises to a predetermined point (e.g., 50°F or 10°C), indicating the frost has melted, the bimetal disc in the terminator opens, interrupting the circuit to the defrost heater. This prevents the heater from running longer than necessary, saving energy and preventing excessive heat buildup within the freezer compartment.

After the defrost cycle is complete and the temperature drops, the terminator resets, closing the circuit again, ready for the next defrost cycle.

6. MAINTENANCE

The Defrost Terminator 7006594 is a sealed component and does not require routine user maintenance. Its proper functioning is critical for the overall efficiency of your freezer. Regular maintenance of the freezer itself, such as keeping condenser coils clean, can help ensure all components, including the defrost system, operate optimally.

If you suspect a problem with the defrost system, it is recommended to have it inspected by a qualified technician. Do not attempt to clean or repair the defrost terminator yourself.

7. TROUBLESHOOTING

Problems with the defrost terminator can lead to various issues with your freezer. Below are common symptoms associated with a faulty defrost terminator:

- **Excessive Frost Buildup:** If the defrost terminator fails to close, the defrost heater may not activate, leading to heavy frost accumulation on the evaporator coils and reduced cooling performance.
- **Freezer Too Warm:** Severe frost buildup can block airflow, causing the freezer compartment to become warm.
- **Food Spoilage:** Inconsistent temperatures due to defrost issues can lead to food spoilage.
- **Defrost Heater Running Continuously (less common):** If the defrost terminator fails to open, the defrost heater might run for too long, potentially causing excessive heat in the freezer and damaging other components. This is less common as most systems have a defrost timer that would eventually cut power.

If you experience any of these symptoms, it is advisable to contact a qualified appliance repair technician for diagnosis and replacement of the defrost terminator or other defrost system components.

8. SPECIFICATIONS

Brand	Subzero
Model Number	7006594

Part Type	Defrost Terminator (Freezer Part)
Defrost System Compatibility	Automatic Defrost Systems
Form Factor	Compact

9. WARRANTY AND SUPPORT

For warranty information and technical support regarding your Subzero Defrost Terminator 7006594, please refer to the documentation provided with your original Subzero appliance or contact Subzero customer service directly. Keep your purchase receipt as proof of purchase for warranty claims. You can typically find contact information for Subzero customer support on their official website or within your appliance's main instruction manual.