

Supco SLT70

Supco SLT70 Genuine OEM Thermostat 37T31 Style 611465 Instruction Manual

1. INTRODUCTION

This instruction manual provides essential information for the safe and effective installation, operation, and maintenance of the Supco SLT70 Genuine OEM Thermostat. This component is designed as a replacement part for specific refrigeration systems, ensuring proper defrost cycle management. Please read this manual thoroughly before attempting any installation or service.

2. SAFETY INFORMATION

- **Electrical Hazard:** Always disconnect power to the appliance before installing, servicing, or removing the thermostat. Failure to do so can result in serious injury or death.
- **Professional Installation Recommended:** Installation of this component should only be performed by a qualified technician familiar with appliance repair and electrical systems.
- **Use Genuine Parts:** Ensure this is the correct replacement part for your appliance model. Using incorrect parts can lead to malfunction or damage.
- **Handle with Care:** Avoid bending or damaging the thermostat's wires or body during installation.

3. PRODUCT OVERVIEW

The Supco SLT70 is a genuine OEM defrost thermostat, style 37T31, part number 611465. It is an essential component in many refrigeration systems, responsible for initiating and terminating the defrost cycle to prevent excessive ice buildup on evaporator coils. This thermostat is designed for reliable performance and compatibility with the specified appliance models.



Figure 1: Supco SLT70 Defrost Thermostat. This image shows the compact, cylindrical thermostat body with two brown electrical wires extending from it, ready for connection.

4. SETUP AND INSTALLATION

1. **Disconnect Power:** Before beginning, ensure the appliance is completely disconnected from its power source.
2. **Locate Existing Thermostat:** Identify the current defrost thermostat within the appliance. It is typically located near the evaporator coil.
3. **Document Wiring:** Carefully note or photograph the wiring connections of the old thermostat before removal.
4. **Remove Old Thermostat:** Disconnect the wires and unmount the old thermostat.
5. **Install New Thermostat:** Mount the Supco SLT70 thermostat in the same location and connect the wires according to your documentation. Ensure all connections are secure.
6. **Secure Wires:** Route and secure the wires to prevent them from interfering with moving parts or being damaged.
7. **Restore Power:** Once installation is complete and all components are securely in place, restore power to the appliance.

8. **Test Operation:** Monitor the appliance to ensure the defrost cycle functions correctly.

Refer to your appliance's specific service manual for detailed instructions pertinent to your model.

5. OPERATING INSTRUCTIONS

The Supco SLT70 defrost thermostat operates automatically within the refrigeration system. Its primary function is to sense the temperature of the evaporator coil. When the coil temperature drops to a predetermined level, indicating ice buildup, the thermostat closes a circuit to initiate the defrost heater. Once the coil reaches a safe temperature (above freezing), the thermostat opens the circuit, turning off the defrost heater and allowing the refrigeration cycle to resume. This process is entirely automatic and requires no user intervention after proper installation.

6. MAINTENANCE

The Supco SLT70 defrost thermostat is a sealed unit and requires no routine maintenance. If the thermostat is suspected of malfunctioning, it should be tested by a qualified technician. Do not attempt to repair the thermostat yourself. Regular cleaning of the appliance's condenser coils and ensuring proper airflow can help maintain the overall efficiency of the refrigeration system, indirectly supporting the thermostat's function.

7. TROUBLESHOOTING

Problem	Possible Cause	Solution
Excessive ice buildup on evaporator coil	Defrost thermostat failure (stuck open)	Test thermostat for continuity; replace if faulty. Check defrost heater and timer.
Appliance runs too warm / frequent defrosts	Defrost thermostat failure (stuck closed)	Test thermostat for continuity; replace if faulty.
No defrost cycle	Faulty thermostat, defrost heater, or defrost timer	Inspect and test all components of the defrost system.

If troubleshooting steps do not resolve the issue, contact a qualified appliance repair technician.

8. SPECIFICATIONS

Brand: Supco

Model: SLT70

Style: 37T31

Part Number: 611465

Type: Genuine OEM Defrost Thermostat

Package Dimensions: 6 x 6 x 6 inches

Item Weight: 2 pounds

ASIN: B009AXBX3Q

Date First Available: September 14, 2012

9. WARRANTY AND SUPPORT

This Supco product is covered by the manufacturer's standard warranty. For specific warranty details, please refer to the documentation included with your purchase or visit the official Supco website. For technical support or assistance with this product, please contact Supco customer service or a certified appliance repair professional.