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› Supco SPG1401GE 6 Hour 25 Minute Defrost Timer Instruction Manual

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Model: SPG1401GE

1. INTRODUCTION

This manual provides essential information for the installation, operation, maintenance, and troubleshooting of the Supco SPG1401GE 6 Hour 25 Minute Defrost Timer. This component is designed to regulate the defrost cycle in compatible refrigeration units, ensuring efficient operation and preventing excessive frost buildup.

2. SAFETY INFORMATION

WARNING: Risk of Electric Shock. Disconnect power to the appliance before servicing.

- Always disconnect the appliance from its power source before attempting any installation, repair, or maintenance.
- Wear appropriate personal protective equipment (PPE), such as gloves and eye protection.
- If you are unfamiliar with appliance repair procedures, it is recommended to consult a qualified technician.
- Ensure all connections are secure and correctly wired according to the appliance's service manual.

3. PRODUCT DESCRIPTION AND COMPATIBILITY

The Supco SPG1401GE is a 6-hour, 25-minute defrost timer, crucial for managing the defrost cycle in refrigerators and freezers. It controls the compressor and defrost heater, cycling between cooling and defrost modes to prevent ice accumulation on the evaporator coils.

This timer serves as a direct replacement for various original equipment manufacturer (OEM) parts, including:

- **GE:** WR9X480, AP2635477, 3470, AH310849, CC312, CC900, EA310849, PS310849, WR09X0282, WR09X0297, WR09X0308, WR09X0309, WR09X0310, WR09X0316, WR09X0330, WR09X0332, WR09X0335, WR09X0336, WR09X0340, WR09X0341, WR09X0346, WR09X0368, WR09X0370, WR09X0421, WR09X0440, WR09X0480, WR09X5117, WR9X282, WR9X297, WR9X308, WR9X309, WR9X310, WR9X316, WR9X330, WR9X330B, WR9X330R, WR9X332, WR9X335, WR9X336, WR9X340, WR9X341, WR9X346, WR9X368, WR9X368R, WR9X370, WR9X370R, WR9X421, WR9X440, WR9X5117
- **Gemline:** CC923
- **Maytag:** R0168026

The timer features a durable plastic construction designed to meet or exceed OEM specifications.

4. INSTALLATION/SETUP

Installation of the defrost timer typically involves locating the existing timer within your appliance, disconnecting it, and connecting the new Supco SPG1401GE timer. The exact location and procedure may vary depending on your appliance model. Always refer to your appliance's specific service manual for detailed instructions.

General Installation Steps (Consult appliance service manual for specifics):

1. **Disconnect Power:** Unplug the refrigerator or freezer from the electrical outlet.
2. **Locate Timer:** The defrost timer is often located behind the kick plate at the bottom front of the refrigerator, inside the control panel, or at the back of the unit.
3. **Access Timer:** Remove any panels or covers necessary to access the timer.
4. **Note Wiring:** Carefully note or photograph the wiring connections to the old timer before disconnecting. The Supco SPG1401GE has four terminals, typically labeled 1, 2, 3, and 4, as shown in the image below.
5. **Remove Old Timer:** Disconnect the wires and unmount the old timer.
6. **Install New Timer:** Mount the new Supco SPG1401GE timer in the same location and connect the wires according to your notes or photographs. Ensure all connections are secure.
7. **Reassemble:** Replace any removed panels or covers.
8. **Restore Power:** Plug the appliance back into the electrical outlet.



Figure 1: Supco SPG1401GE Defrost Timer. An image of the Supco SPG1401GE defrost timer, a white plastic component with four metal terminals and a label indicating model number DBZD-730-1D5A, 120V a.c., 50/60Hz, 15A NON-IND 1/3 HP, and NO.

G14010. A wiring diagram showing terminals 1, 2, 3, and 4 is also visible on the label.

5. OPERATION

The Supco SPG1401GE defrost timer operates automatically. It is designed to run the refrigeration compressor for approximately 6 hours, followed by a 25-minute defrost cycle. During the defrost cycle, power is diverted from the compressor to the defrost heater, melting any ice that has accumulated on the evaporator coils. After 25 minutes, the timer switches back to the cooling cycle, and the compressor resumes operation.

This cycle duration is fixed and not user-adjustable. Proper operation ensures that the evaporator coils remain clear of ice, allowing for efficient cooling and preventing temperature fluctuations within the appliance.

6. MAINTENANCE

The Supco SPG1401GE defrost timer is a sealed unit and does not require routine maintenance. However, regular inspection of your refrigeration unit can help identify potential issues early:

- Periodically check for excessive frost buildup in the freezer compartment, which could indicate a malfunctioning defrost system.
- Ensure the condenser coils are clean to maintain overall appliance efficiency.
- Listen for unusual noises from the timer area, though this is rare.

If a problem is suspected with the defrost timer, refer to the troubleshooting section.

7. TROUBLESHOOTING

If your refrigerator or freezer is experiencing issues related to the defrost system, the defrost timer may be a contributing factor. Here are common symptoms and potential causes:

- **Excessive Frost Buildup in Freezer:** This is a primary indicator of a defrost system failure. The timer might be stuck in the cooling cycle, preventing the defrost heater from activating.
- **Refrigerator Not Cooling (but freezer is cold):** If the evaporator coils are completely covered in ice due to a failed defrost cycle, airflow can be blocked, preventing the refrigerator section from cooling properly.
- **Refrigerator Runs Constantly:** A faulty timer might not advance to the defrost cycle, causing the compressor to run continuously in an attempt to cool, even if the coils are iced over.
- **Food Spoiling:** Inconsistent temperatures due to defrost issues can lead to food spoilage.

To test the defrost timer, a qualified technician may manually advance the timer to the defrost cycle to see if the defrost heater activates. If the timer does not advance or the defrost heater does not activate when manually advanced, the timer may need replacement.

8. SPECIFICATIONS

Attribute	Detail
Brand	Supco
Model Number	SPG1401GE
Part Number	SPG1401GE
Defrost Cycle	6 Hours Run / 25 Minutes Defrost
Voltage	120V a.c. (as per image label)

Frequency	50/60Hz (as per image label)
Amperage	15A NON-IND (as per image label)
Horsepower	1/3 HP (as per image label)
Material	Plastic
Item Weight	1.76 ounces
Product Dimensions	1 x 1 x 1 inches (Approximate)
UPC	687152147670

9. WARRANTY AND SUPPORT

For warranty information and technical support regarding the Supco SPG1401GE defrost timer, please contact Supco directly through their official website or customer service channels. Keep your purchase receipt as proof of purchase for any warranty claims.

For additional resources or to locate a qualified service technician, you may visit the [Supco website](#).

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