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› [SunTouch WarmWire Electric Floor Heating Kit \(70 Sq. Ft., 120V\) with Command Touch Programmable Thermostat User Manual](#)

SunTouch 120070WD-BKIT

SunTouch WarmWire Electric Floor Heating Kit (70 Sq. Ft., 120V) with Command Touch Programmable Thermostat User Manual

Model: 120070WD-BKIT

1. INTRODUCTION

The SunTouch WarmWire Electric Floor Heating Kit provides a radiant heating solution for various indoor spaces, including bathrooms, kitchens, and entryways. This system is designed to deliver comfortable warmth directly to your floor surfaces. This manual outlines the components, installation procedures, operational guidelines, and maintenance recommendations to ensure safe and efficient use of your heating system.



Image 1.1: SunTouch WarmWire Electric Floor Heating Kit components.

2. SAFETY INFORMATION

WARNING: Risk of electric shock. Installation must be performed by a qualified electrician in accordance with all local and national electrical codes.

- Always disconnect power at the main circuit breaker before installing or servicing the heating system.
- The heating cable must not be cut or shortened. Any damage to the cable during installation can lead to system failure or electrical hazards.
- The system must be protected by a Ground Fault Circuit Interrupter (GFCI), which is integrated into the Command Touch Thermostat.
- Do not install the heating cable under permanent fixtures such as cabinets, bathtubs, or toilets.
- Ensure the floor sensor is properly installed and protected to prevent damage.

3. PACKAGE CONTENTS

Verify that all components are present and undamaged before beginning installation:

- WarmWire Radiant Heating Cable (70 Sq. Ft., 120V)
- Sun Stat Command Programmable Thermostat Touchscreen
- Rolls of Cable Strap for securing cable to subfloor
- Floor Sensor Wire (10k Ohm)
- Roll of double-sided tape
- Wire nuts
- Loudmouth Continuity Alarm (for installation monitoring)

4. SETUP AND INSTALLATION

Proper installation is critical for the performance and safety of your WarmWire system. Refer to the detailed installation guide included with your kit for specific instructions and diagrams.

4.1 Pre-Installation Checks

1. **Plan Layout:** Determine the exact area to be heated, avoiding areas under permanent fixtures.
2. **Subfloor Preparation:** WarmWire can be installed over plywood, backerboard, or concrete slab. Ensure the subfloor is clean, dry, and level.
3. **Electrical Requirements:** Confirm that a dedicated 120V circuit is available, capable of handling the 7 Amp load (840 watts) of the 70 Sq. Ft. kit. Multiple cables can be wired in parallel to the same thermostat, up to a total load of 15 amps.

4.2 Cable Installation

The WarmWire cable is designed for easy installation with a single point power connection. Use the provided cable straps and double-sided tape to secure the cable to the subfloor according to your planned layout. Maintain proper spacing between cable runs as specified in the detailed instructions.

4.3 Using the Loudmouth Continuity Alarm

The Loudmouth device is an essential tool during installation. Connect it to the heating cable leads before and during the entire installation process. It will emit an audible alarm if the cable is cut or damaged, allowing for immediate detection and repair before the cable is embedded in mortar or self-leveling concrete.



Image 4.1: Loudmouth Continuity Alarm.

4.4 Thermostat and Sensor Installation

Install the Command Touch Thermostat in a standard electrical box. Route the floor sensor wire to the heated area, ensuring it is positioned centrally between two heating cable runs for accurate temperature readings. Connect the heating cable, floor sensor, and power supply to the thermostat using the provided wire nuts, following the wiring diagram in the full manual.

5. OPERATING INSTRUCTIONS

The Sun Stat Command Touch Programmable Thermostat offers advanced control over your floor heating system.

5.1 Initial Setup and Programming

Upon initial power-up, the thermostat will guide you through a user-friendly programming setup wizard. This includes setting the time, date, and your preferred heating schedule.

- **Responsive Touchscreen:** Navigate menus and adjust settings using the brilliant color touchscreen display. Choose from 5 color scheme options.
- **7-Day Programming:** Set a customized heating schedule for each day of the week to match your lifestyle.
- **Floor and Air Sensing Modes:** The thermostat can operate based on floor temperature, ambient air temperature, or a combination of both for optimal comfort and energy efficiency.
- **Smart Start Technology:** This feature automatically adjusts the system's start time to ensure your floor reaches the set temperature at your scheduled time, preventing cold floors in the morning.

5.2 Advanced Features

- **Home Automation Tie-In:** A dry contact allows for on and off control integration with compatible home automation systems.
- **Energy Use Monitor:** The thermostat logs and reports energy consumption, helping you track and manage your heating costs.
- **GFCI Built-in:** For enhanced safety, a Ground Fault Circuit Interrupter is integrated into the thermostat.



Image 5.1: Radiant floor heating provides comfortable warmth.

6. MAINTENANCE

The SunTouch WarmWire system is designed for minimal maintenance once installed. Regular checks can help ensure continued optimal performance.

- **Thermostat Cleaning:** Gently wipe the touchscreen with a soft, damp cloth. Avoid abrasive cleaners.
- **System Check:** Periodically verify that the GFCI function on the thermostat is operational by pressing the 'Test' button. The thermostat should trip, and then be reset.
- **No User-Serviceable Parts:** The heating cable itself contains no user-serviceable parts. Do not attempt to repair damaged cables. Contact a qualified professional if damage is suspected.

7. TROUBLESHOOTING

If your SunTouch WarmWire system is not functioning as expected, consider the following common issues before contacting support:

- **No Heat:**
 - Check the circuit breaker for the heating circuit.
 - Ensure the thermostat is set to an 'On' or 'Heat' mode and the set temperature is above the current floor temperature.
 - Verify the GFCI on the thermostat has not tripped. Reset if necessary.
- **Inaccurate Temperature Reading:**
 - Ensure the floor sensor is correctly installed and not damaged.
 - Check thermostat settings for floor vs. air sensing modes.
- **Thermostat Display Not Working:**
 - Check power supply to the thermostat.
 - If the issue persists, the thermostat may require replacement.

For complex issues or suspected cable damage, contact a qualified electrician or SunTouch customer support.

8. SPECIFICATIONS

Feature	Specification
Model Number	120070WD-BKIT
Heating Coverage	70 square feet
Voltage	120 Volts
Wattage	840 watts
Amperage	7 Amps
Min Temperature Setting	5 Degrees Celsius (41°F)
Max Temperature Setting	31 Degrees Celsius (88°F)
Material (Cable)	Copper
Thermostat Features	Programmable, Touchscreen, GFCI, Smart Start, Energy Monitor
Indoor/Outdoor Usage	Indoor

9. WARRANTY INFORMATION

SunTouch and Watts Radiant warrant their electric floor heating mats and cables to be free from defects in materials

and workmanship for **twenty-five (25) years** from the date of manufacture. Thermostats and controls sold by the Companies are warranted, parts and materials, for **two (2) years** from the date of purchase. The sole remedy for controls is product replacement.

This warranty is provided to customers who purchase the Products from authorized resellers and is transferable to subsequent owners of properties where the Products are initially installed.

10. SUPPORT

For technical assistance, troubleshooting, or warranty claims, please contact SunTouch customer support. Refer to the official SunTouch website for the most current contact information.

Online Resources: [Visit the SunTouch Store on Amazon](#)

