Pitco PP10084

Instruction Manual

Pitco PP10084 High Limit Switch

Model: PP10084 | Brand: Pitco

Product Overview

The Pitco PP10084 High Limit Switch is an essential safety component designed for Pitco frying equipment. As a genuine OEM (Original Equipment Manufacturer) replacement part, it ensures the safety, reliability, and optimal performance of your appliance. This switch is specifically engineered to prevent overheating by interrupting the power supply when a predetermined temperature limit is exceeded, thereby protecting the equipment and ensuring operational safety.
It is approved by the original equipment manufacturer and is intended only for its designed and specified use within compatible Pitco systems.

Safety Information

- Always disconnect power to the equipment before attempting any installation, maintenance, or repair.
- Installation should be performed by a qualified technician to ensure proper function and safety.
- Use only genuine OEM parts for replacement to maintain equipment integrity and safety standards.
- Refer to the specific equipment's service manual for detailed wiring diagrams and installation procedures.

Setup and Installation

The Pitco PP10084 High Limit Switch is designed as a direct replacement part. Proper installation is crucial for its correct function and the safety of the equipment.

1. **Power Disconnection:** Ensure the fryer or associated equipment is completely disconnected from its power source. Verify with a voltage tester.
2. **Access:** Locate the existing high limit switch within the equipment. This may require removing access panels.
3. **Removal of Old Switch:** Carefully disconnect the electrical wiring from the old switch, noting the connections. Remove any mounting hardware securing the old switch.
4. **Installation of New Switch:** Mount the new Pitco PP10084 High Limit Switch in the same location as the old one. Connect the electrical wiring exactly as it was on the previous switch. Ensure all connections are secure.
5. **Probe Placement:** Ensure the temperature sensing probe is correctly inserted into its designated well or location

within the fryer, making good thermal contact.

6. **Secure Components:** Re-secure any access panels or covers removed during the installation process.
7. **Testing:** After installation, restore power and perform functional tests as outlined in the equipment's service manual to confirm the new high limit switch operates correctly.

Note: Some installations may require minor modifications if the mounting style differs slightly from the original component. Always prioritize secure mounting and proper electrical connections.

Operating Principle

The Pitco PP10084 High Limit Switch operates as a critical safety device. It is a normally closed (NC) switch that monitors the temperature of the frying oil or heating element. If the temperature within the fryer exceeds a pre-set safe operating limit, the switch automatically opens, interrupting the electrical circuit to the heating elements. This action prevents the fryer from overheating, which could lead to dangerous conditions or damage to the equipment. Once the temperature drops to a safe level, the switch typically requires manual reset to restore power, ensuring that the cause of the overheating is investigated before resuming operation.

Maintenance

The Pitco PP10084 High Limit Switch is a sealed component and does not require routine maintenance itself. However, regular inspection of the surrounding components and connections is recommended:

- **Visual Inspection:** Periodically inspect the switch and its wiring for any signs of physical damage, corrosion, or loose connections.
- **Probe Cleanliness:** Ensure the temperature sensing probe is clean and free from grease or debris that could impede accurate temperature sensing.
- **Functional Testing:** As part of routine equipment maintenance, verify that the high limit safety system is functioning correctly. This typically involves simulating an over-temperature condition (as per manufacturer guidelines) to ensure the switch trips as intended.

Any signs of damage or malfunction should prompt immediate replacement of the switch by a qualified technician.

Troubleshooting

If the fryer is not heating or repeatedly trips the high limit switch, consider the following:

- **Switch Tripped:** If the high limit switch has tripped, it indicates an over-temperature condition. Allow the fryer to cool down completely. Locate the reset button on the switch (if applicable) and press it firmly to reset. If it trips again immediately, do not continue operation.
- **Incorrect Mounting:** Verify that the switch is securely mounted and the temperature probe is correctly seated in its thermowell. Loose mounting or improper probe placement can lead to inaccurate temperature readings and nuisance tripping.
- **Wiring Issues:** Check all electrical connections to the high limit switch for looseness, corrosion, or damage. Ensure wiring matches the equipment's schematic.
- **Other Component Failure:** A high limit switch tripping can be a symptom of another issue, such as a faulty thermostat, heating element, or control board. Consult the fryer's service manual for diagnostic procedures.
- **Switch Malfunction:** If the switch does not reset, or if it trips without an actual over-temperature condition, the switch itself may be faulty and require replacement.

Always consult a qualified service technician for complex diagnostic and repair procedures.

Product Images

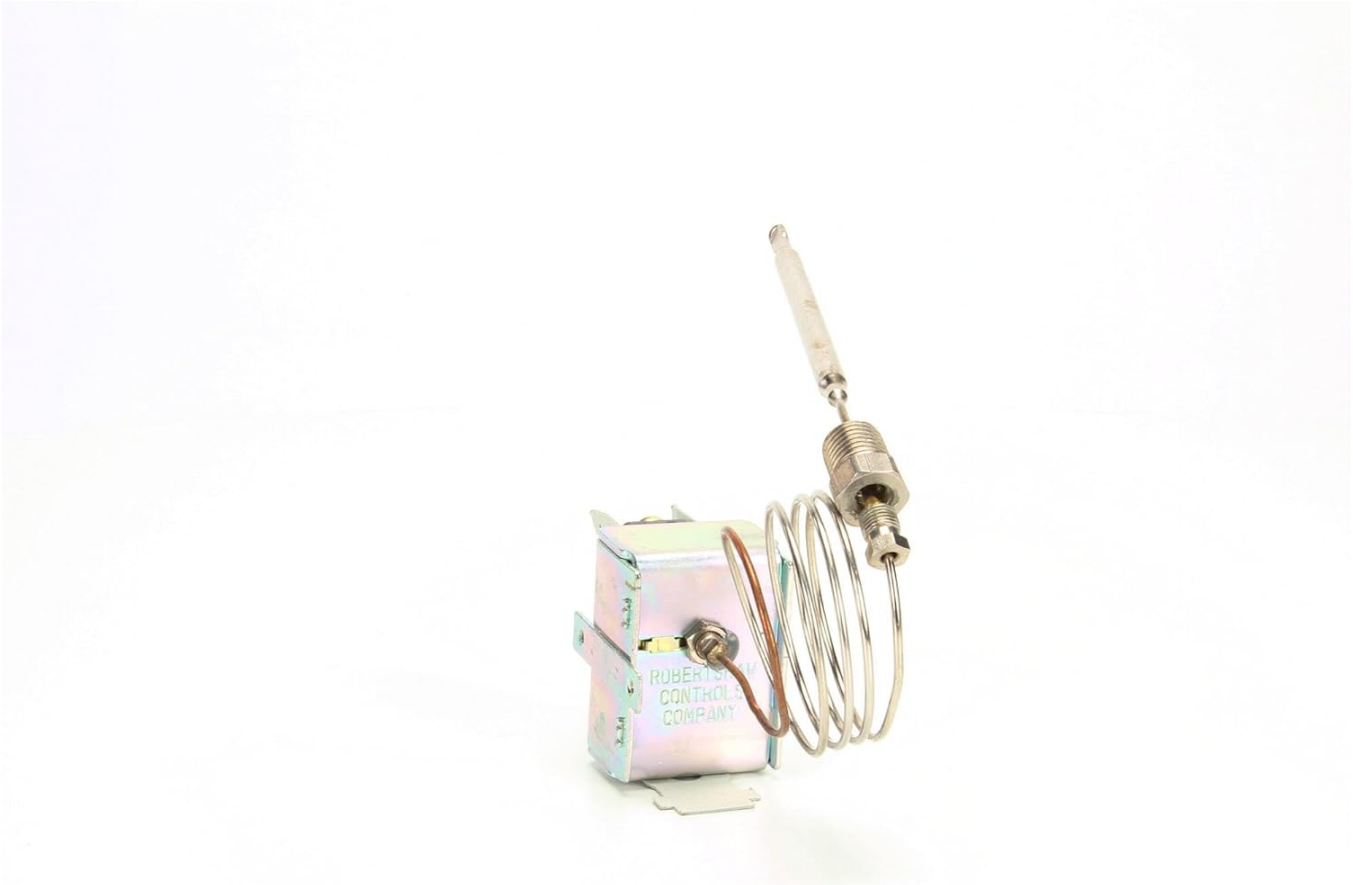

Figure 1: Front view of the Pitco PP10084 High Limit Switch. This image displays the compact metal housing of the switch, from which a coiled capillary tube extends, terminating in a temperature sensing bulb. The overall design is typical for a high limit safety device in commercial frying equipment.

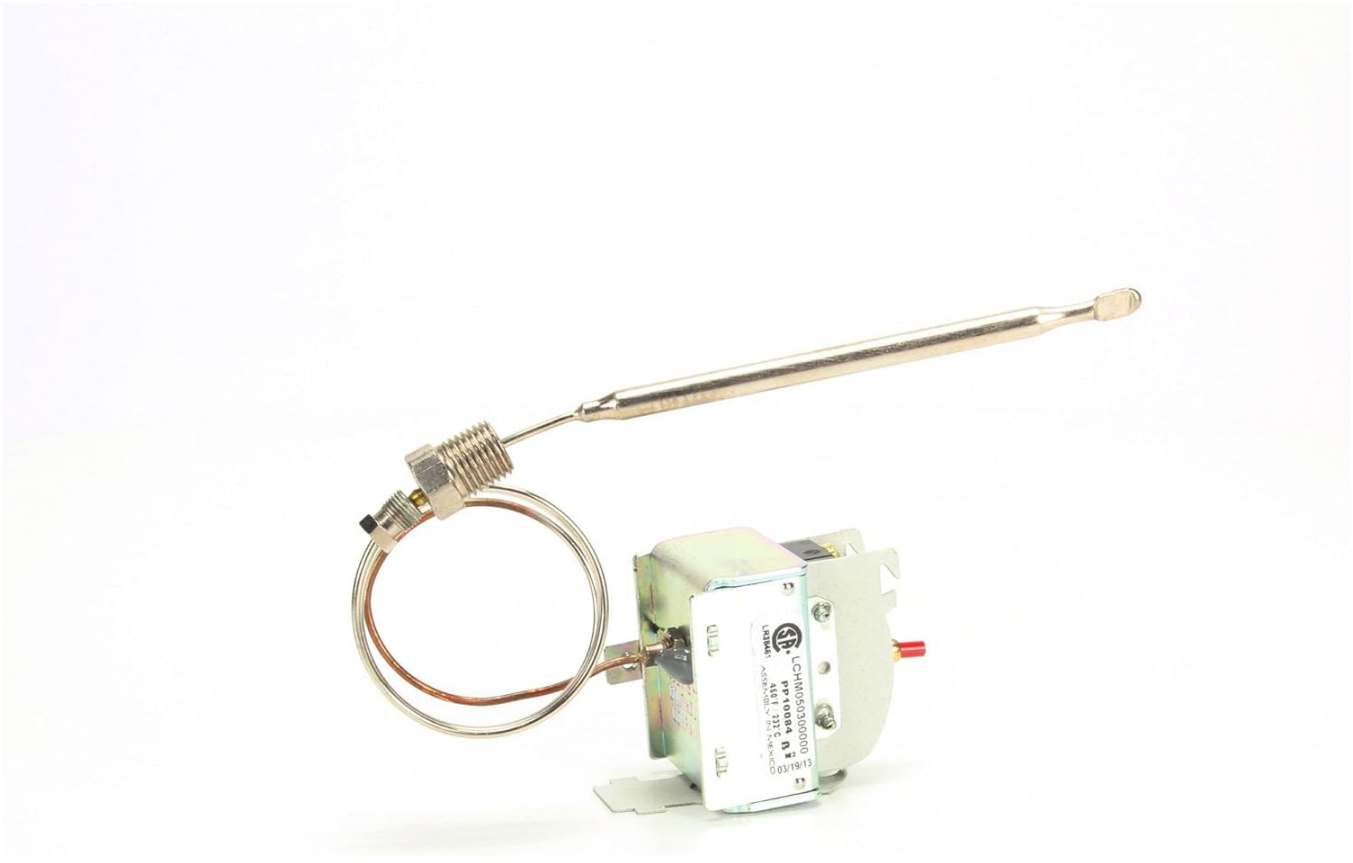

Figure 2: Top-down view of the Pitco PP10084 High Limit Switch. This perspective clearly shows the connection point of the capillary tube to the main switch body and the elongated temperature sensing bulb. The mounting brackets on the switch housing are also visible.

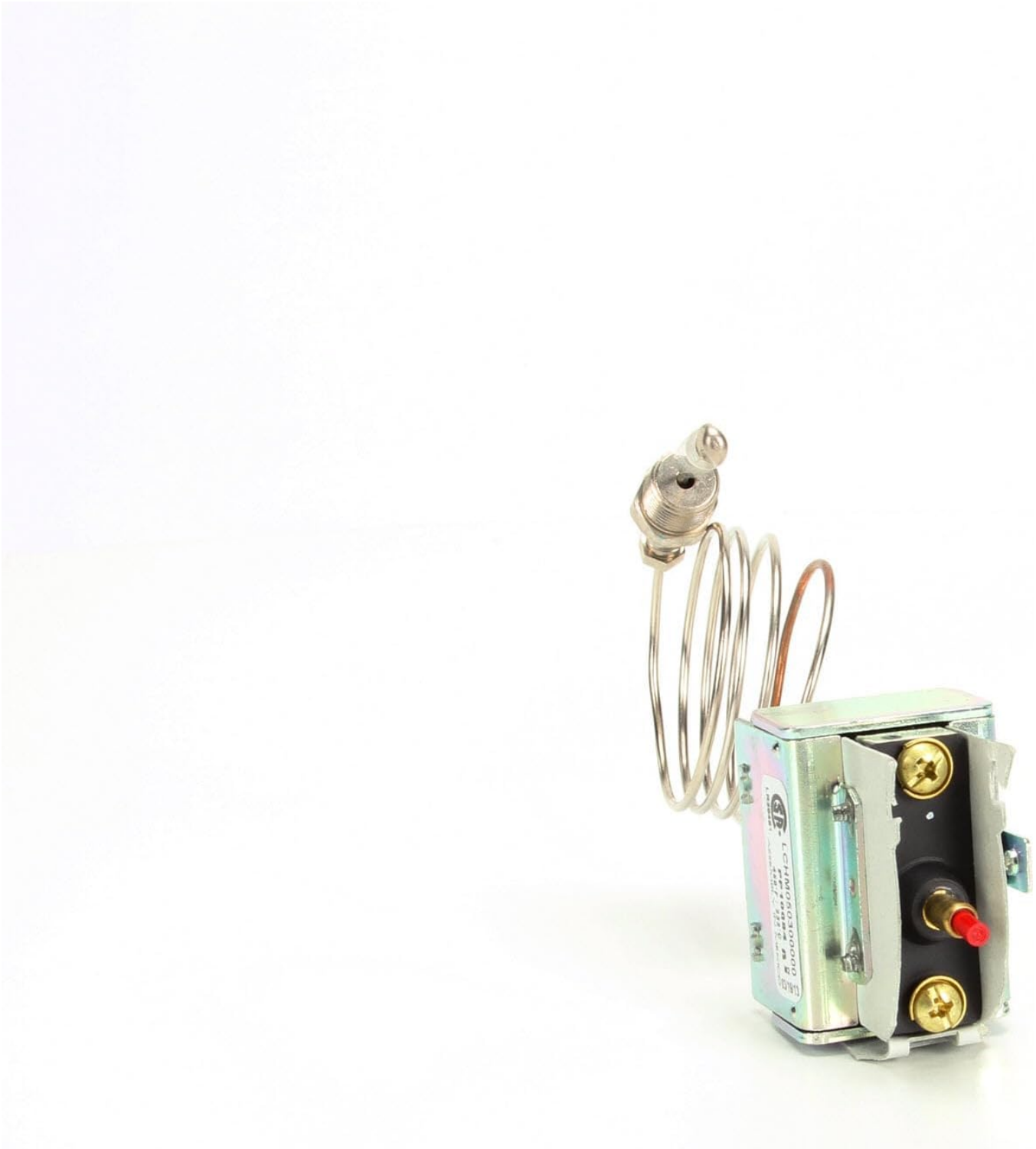

Figure 3: Side view of the Pitco PP10084 High Limit Switch. This image provides a view of the electrical terminals, typically covered by a protective cap, and potentially the manual reset button or mechanism. The robust construction of the switch housing is evident.

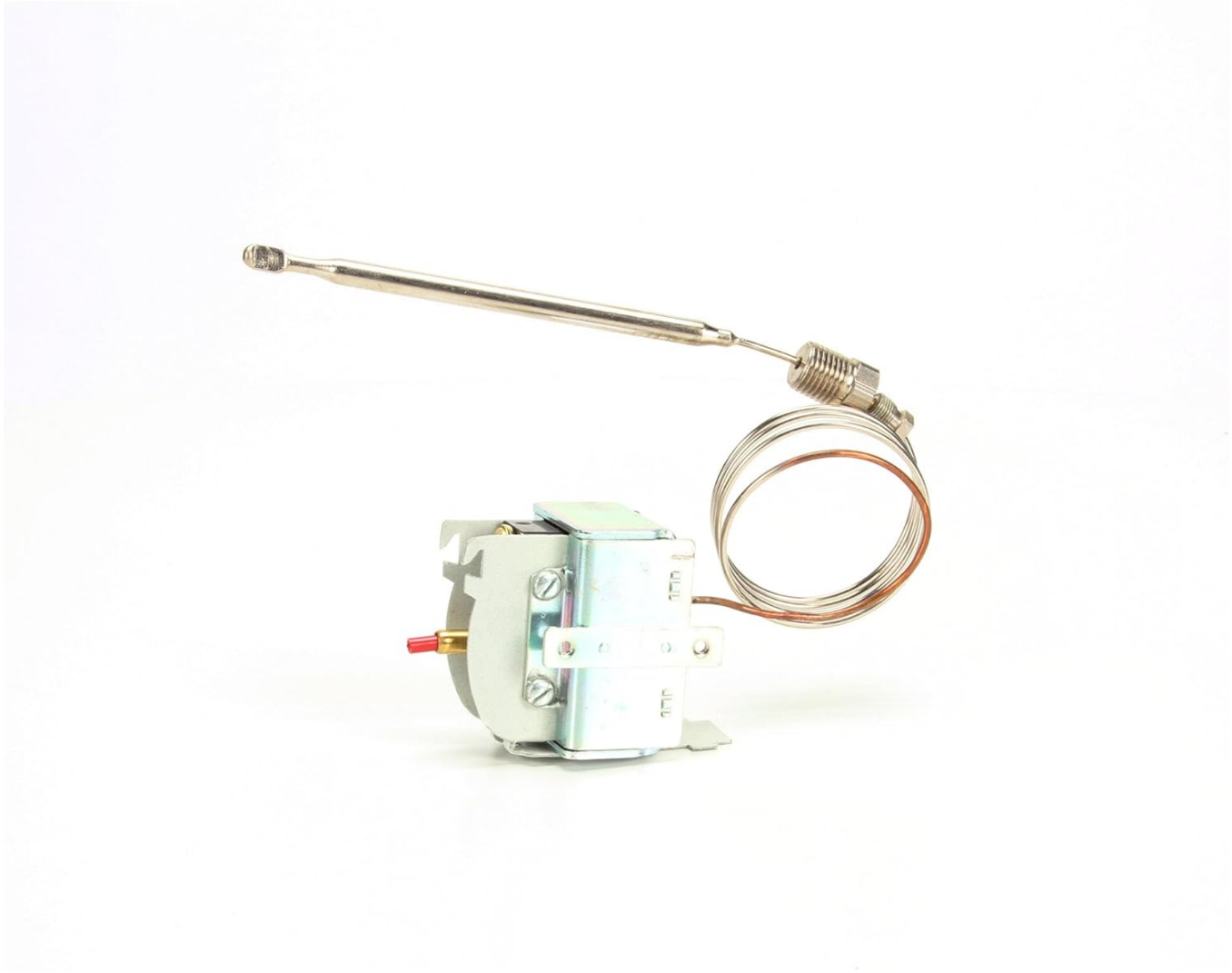

Figure 4: Alternative angle of the Pitco PP10084 High Limit Switch. This view further illustrates the compact nature of the device, showing the coiled capillary tube and the sensing bulb extending from the main switch unit, ready for installation.

Specifications

Attribute	Detail
Brand Name	Pitco
Model Info	PP10084
Item Weight	7.4 ounces
Product Dimensions	6.65 x 2.9 x 1.75 inches
Part Number	PP10084
Color	silver
Certification	OEM
Material Type	Nickel
Date First Available	June 15, 2011

Warranty and Support

As a genuine OEM replacement part, the Pitco PP10084 High Limit Switch is manufactured to the highest standards. For specific warranty information, please refer to the original equipment manufacturer's warranty policy for Pitco parts. For technical support or service inquiries, it is recommended to contact Pitco directly or an authorized Pitco service provider. Using genuine OEM parts ensures continued eligibility for manufacturer support and warranty coverage for your Pitco equipment.

For further assistance, please visit the official Pitco website or consult your equipment's original documentation.