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PELIF 62-23543-01

PELIF 62-23543-01 Flame Sensor Replacement Instruction Manual

For Rheem, Ruud, and WeatherKing Furnaces

1. INTRODUCTION

This manual provides instructions for the safe and proper installation and use of the PELIF 62-23543-01 Flame Sensor. This component is designed as a direct replacement for specific furnace models from Rheem, Ruud, and WeatherKing.

Product Overview

The flame sensor is a critical safety device in your furnace. It detects the presence of a flame in the burner assembly. If a flame is not detected after ignition, the sensor signals the control board to shut off the gas supply, preventing the accumulation of unburnt gas.

Compatibility

This flame sensor is compatible with Rheem, Ruud, and WeatherKing furnace models including: NORGDG, SGDG, RGDJ, RGFD, RGLG, RGLH, RGLJ, RGLK, RGLL, RGLN, RGLQ, RGLR, RGPH, RGPJ, RGPK, RGPL, RGPV, RGPP, RGPO, RGPR, RGRA, RGRB, RGRJ, RGRK, RGRL, RGRM, RGSA, RGTA, RGTJ, RGVG, RGVH, RGVJ, 80LJ, 80LS, 80PJ, 80PS, 90RJ, 90RS, 90RT, 90TJ, 90TS, RGFE, RGFG, RGLE, RGLS, RGLT, RGPE, RGPS, RGPT, RGRS, RGRT, RGTS, SGPG, SGPN.

It replaces original part numbers: 62-23543-02, 62-23543-03, and 62-23543-04.

2. IMPORTANT SAFETY INSTRUCTIONS

- **Always disconnect power** to the furnace before performing any service or maintenance. Failure to do so can result in electrical shock or serious injury.
- Gas appliances should only be serviced by **qualified personnel**. If you are unsure about any step, consult a professional HVAC technician.
- Wear appropriate personal protective equipment (PPE), such as gloves and eye protection, during installation.
- Ensure all gas connections are secure and leak-free after any work involving gas components.

- Do not bypass any safety devices.

3. INSTALLATION GUIDE

This section outlines the steps for replacing the flame sensor. Please read all instructions before beginning.

Tools Required

- Screwdriver (typically 1/4" hex head)
- Multimeter (optional, for testing)
- Flashlight (optional)

Step-by-Step Installation

1. **Step 1: Disconnect Power.** Locate the power switch for your furnace, usually a light switch on or near the unit, and turn it off. If no switch is present, turn off the dedicated circuit breaker for the furnace at your electrical panel. This is a critical safety step to prevent electrical shock.
2. **Step 2: Locate and Remove the Old Sensor.** Open the furnace access panel. Identify the existing flame sensor. It is typically mounted by a single 1/4-inch hex head screw near the burner assembly. Carefully remove this screw. Once the screw is removed, the sensor should slide out. Disconnect any wires attached to the sensor.



Image: General view of the PELIF 62-23543-01 Flame Sensor.

3. **Step 3: Install the New Sensor.** Take the new PELIF 62-23543-01 flame sensor. Connect the wire(s) to the new sensor. Slide the new sensor into position on the burner assembly and secure it with the 1/4-inch hex head screw. Ensure it is firmly seated.



Image: Close-up of the 1/4" male quick connect termination on the flame sensor.

4. **Step 4: Reassemble and Restore Power.** Close and secure any furnace access panels that were opened. Restore power to the furnace by turning on the power switch or circuit breaker.
5. **Step 5: Test Operation.** Initiate a heating cycle on your thermostat. Observe the furnace operation. It is normal for the unit to take a few extra seconds to start or for the fan to run briefly as it performs a self-check after power restoration. The furnace should ignite and operate normally. If the furnace fails to ignite or cycles off prematurely, refer to the Troubleshooting section.

4. PRODUCT SPECIFICATIONS

Property	Value
Model Number	62-23543-01
Brand	PELIF
Termination	1/4" male quick connect
Sensor Offset Angle	90 degrees
Material	High quality alumina ceramic insulator, High temperature flame rod
Item Weight	0.317 ounces
Package Dimensions	3.98 x 2.09 x 0.75 inches

5. TROUBLESHOOTING

If your furnace does not operate correctly after replacing the flame sensor, consider the following:

- **No Ignition:** Ensure all wiring connections to the flame sensor are secure. Verify that the sensor is correctly

positioned in the flame path.

- **Intermittent Operation:** A dirty flame sensor can cause intermittent operation. While this is a new sensor, ensure no debris is obstructing it.
- **Furnace Cycles On/Off Rapidly (Short Cycling):** This could indicate the flame sensor is not consistently detecting the flame. Recheck installation and ensure the sensor is clean.
- **Power Issues:** Confirm that power has been fully restored to the furnace and that the circuit breaker has not tripped.
- **Other Components:** If the issue persists, the problem may lie with other furnace components such as the igniter, control board, or gas valve. Consult a qualified HVAC technician for further diagnosis.

6. MAINTENANCE

The PELIF 62-23543-01 flame sensor is designed for durability. Regular maintenance of your furnace, typically performed by a qualified technician, includes inspecting and cleaning the flame sensor. A clean flame sensor ensures reliable operation and prevents nuisance shutdowns.

- **Annual Inspection:** Have your furnace inspected annually by a professional. They will check the flame sensor for soot buildup and clean it if necessary.
- **Cleaning:** If you need to clean the sensor, always disconnect power first. Use fine-grit sandpaper or steel wool to gently clean any carbon buildup from the ceramic rod. Avoid bending the rod.

7. WARRANTY AND SUPPORT

For information regarding warranty coverage or technical support for your PELIF 62-23543-01 Flame Sensor, please refer to the original purchase documentation or contact the retailer where the product was purchased.

For general furnace repair or safety concerns, it is recommended to consult a certified HVAC professional.