WHITE-RODGERS

by COPELAND

789A-751KT1

OEM Direct Replacement 120V Hot Surface Ignitor

INSTALLATION INSTRUCTIONS

FAILURE TO READ AND FOLLOW ALL INSTRUCTIONS CAREFULLY BEFORE INSTALLING OR OPERATING THIS CONTROL COULD CAUSE PERSONAL INJURY AND/OR PROPERTY DAMAGE.

PARTS INCLUDED

- 1 789A-751A1 Hot Surface Ignitor
- 1 Ignitor Mounting Bracket

- 2 1/2" Sheet Metal Mounting Screws
- 1 Ignitor Adapter Harness
- 1 Installation Instructions



Ignitor mounting bracket



Ignitor Adapter Harness (use to connect new nitride ignitor with old carbide furnace connector)



789A-751A1 Hot Surface Ignitor

DESCRIPTION

The 789A-751KT1 is an aftermarket direct replacement Hot Surface Ignitor Kit. This kit can be utilized to replace a Silicon Carbide Ignitor (Carrier model LH33ZS001 or valid cross

reference) with Silicon Nitride on **33-1/3**" Carrier/ICP Brand mid-efficiency furnaces.

SPECIFICATION

Rated Voltage:

120 volts + 10%, -15%, 50/60 Hz.

Cold Resistance:

20 to 100 ohms

Current:

0.4 to 1.2 amps at 120 ± 1.0 volts

Time to 1796 °F (980 °C): 8 seconds maximum at 102

± 1.0 volts

Ignitor Life:

100,000 cycles at 120 volts under typical conditions

Agency

CSA Certified

NOTE: Internal wires to ignitor connections to withstand operational temperature of 482 °F (250 °C).

A CAUTION

Shock Hazard

- Always turn off electric power before working on any appliance.
- Ensure proper connection to all wires.



Explosion Hazard

 Shut off gas to appliance before installation, and do not reconnect until installation is complete.

Fire Hazard



- Do not exceed the specified voltage of 120 volts.
- Ensure the components do not come into direct contact with water (spray, dripping water or rain).
- Improper and dangerous operation can result from wiring errors.



NOTE: Install all wiring according to local and national electrical codes and ordinances.

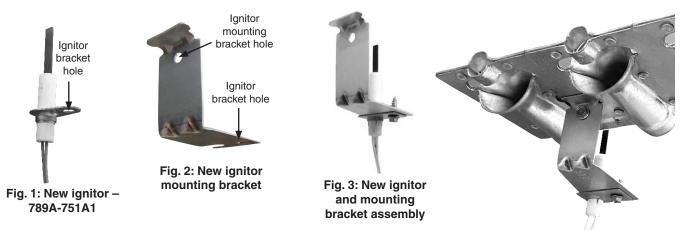


Fig. 4: New ignitor installed into burner assembly

- 1. Disconnect electrical power.
- Disconnect wires from gas valve, flame sensor and hot surface ignitor.
- 3. Locate old ignitor and remove the screw that secures old ignitor mounting bracket to the burner assembly.
 - Note: some applications may require the burner assembly to be removed first.
 - b. Take note of location of old ignitor.
- 4. Slide old ignitor mounting bracket out of burner assembly.
- Attach new ignitor to new ignitor mounting bracket, screwing into the ignitor bracket hole (Fig. 1 & 2) using one of two screws provided.

- See Fig. 3 for correct ignitor and mounting bracket assembly orientation.
- Slide new ignitor and mounting bracket assembly back into same location as noted in 3b.
- 7. Secure new ignitor mounting bracket to the burner assembly by placing the remaining screw through the ignitor mounting bracket hole (Fig. 2).
- 8. Verify ignitor is in the correct position (see Fig. 5 and 6).
- 9. Re-attach burner assembly if necessary.
- Use ignitor adapter harness to connect new nitride ignitor to furnace control board harness.

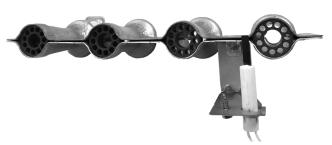


Fig. 5: Flame-side view of correct ignitor position

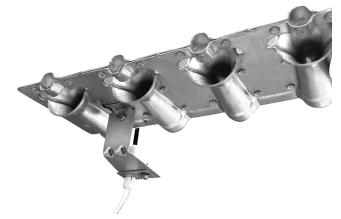


Fig. 6: Gas-side view of correct ignitor position

TECHNICAL SUPPORT: 1-888-725-9797