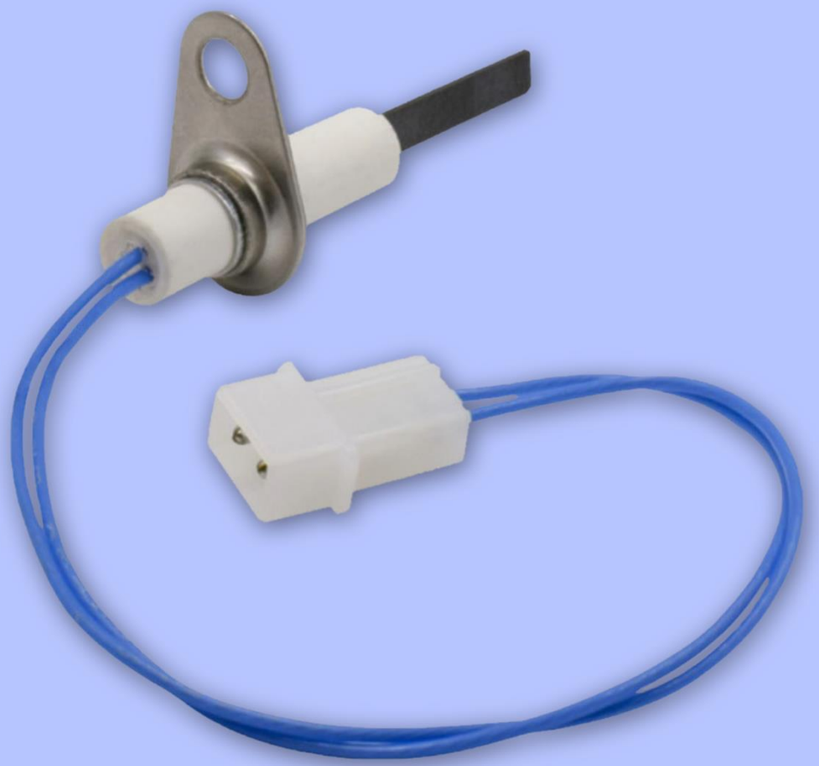
COPELAND

789A-* series direct OEM replacement 120v nitride ignitors

Product launch – Fall 2019



Introducing White-Rodgers OEM direct replacement 120v nitride ignitors

The White-Rodgers 789A-* line of 120v nitride ignitors

What is a 120v nitride ignitor?

A nitride ignitor is a compound of silicon & nitrogen (Si_3N_4) and has been used to make an energy efficient ignition system in which the nitride probe has 120v applied to the wire leads. This causes the probe to glow hot enough to ignite the gas/oxygen mixture coming out of the furnace burners.

Old technology of a standing pilot ignition system burnt gas 24/7/365, wasting gas unnecessarily.

W/R OEM nitride ignitors are now available* for:

- Carrier
- Goodman
- Lennox
- Trane *repackaged
- York

*Note: Check cross-reference list for exact match.

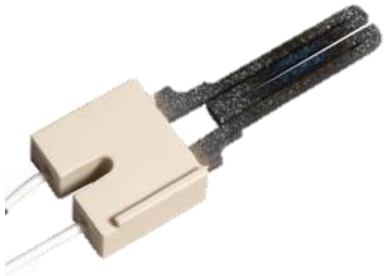
Easy to install, premium quality, durable

Current efficient ignition systems

Direct spark ignition

- Spark probe rarely wears out.
- Spark coil on board is ignition part that fails most, making repair highest $ of 3.
- Quick ignition – doesn’t have to wait for anything to heat up.

Silicon carbide



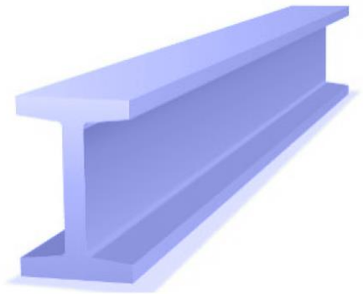
- Carbide probes are known to fail within a year or 2 in some environments.
- The ignitor probe is ignition part that fails most.
- Very fragile & breaks easy – even during install.

Silicon nitride

- Premium durable probe.
- Durability & longevity over carbide outweighs initial cost.
- Not sensitive to oils or easily broken.
- Retrofitting from carbide becoming easier w/ universal options.

The silicon nitride ignition system is preferred by most furnace manufacturers.

Silicon nitride benefits



Durable

Silicone nitride is much tougher to break than silicon carbide.

The surface of nitride is non-porous and visually smoother. This additional density creates strength within the material.

Long life

Silicon nitride life will typically outlast carbide 2 to 7 times.

Due to properties of silicon carbide, it is more sensitive to chemicals in its environment and operates fewer cycles before burning out.

Time saving

Diagnosing a defective nitride ignitor is faster than spark ignition.

A technician also can remove a screw, unplug a harness, and replace a Nitride ignitor faster than replacing a spark control and moving all the wires over.

Ignition type history

1969

Carborundum Co. makes 1st silicon carbide ignitor

1987

The National Appliance Energy Conservation Act set a minimum of 78% Annual Fuel Utilization Efficiency (AFUE)

Manufacturers stop building furnaces with standing pilot light ignition systems

1997

Trane & Lennox lead the way in switching from silicon carbide to 80v silicon nitride

2006

Most* manufacturers have switched from spark ignition, silicon carbide, & 80v nitride to 120v nitride

*Exception: Rheem still uses direct spark ign.

2012

Universal 120v silicon nitride designed to replace silicon carbide introduced

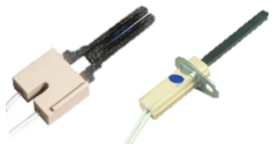
Upgrading to SiNi is made available

1997-2018 26M furnaces installed nationally

Era of direct spark & silicon carbide

Era of silicon carbide & 80v silicon nitride

Era of 120v silicon nitride



NEW

W/R is now offering 120v direct OEM replacements

Existing markets already covered with White-Rodgers product offerings

NEW

Premium direct OEM replacement 120V nitride ignitors

CARRIER

789A-751A1

CARRIER

789A-751KT1

CARRIER

789A-751KT2

GOODMAN

789A-707A1

YORK

789A-956A1

LENNOX

789A-801A1

TRANE

789A-820KT1

White-Rodgers 789A series gives you 120V OEM Plug-n-Go harness connectors.

NEW

Upgrade carbide to nitride for CARRIER/ICP brands

CARRIER
789A-751A1

- 120v input
- 9.25” wire leads
- Carrier/ICP brand connector
- No bracket or extension included
- Crosses over to OEM ICP part #’s

CARRIER
789A-751KT1

- 120v input
- 9.25” wire leads
- Carrier/ICP connector
- Bracket & nitride adapter included
- For Carrier/ICP 33-1/3” tall furnaces

CARRIER
789A-751KT2

- 120v input
- 9.25” wire leads
- Carrier/ICP brand connector
- Bracket & nitride adapter included
- For Carrier/ICP 40” tall furnaces

Use of correct bracket kit for furnace height and proper ignitor placement is necessary for proper ignition without delay/boom.

HOTROD series universal upgrade 120V nitride review

HOTROD	HOTROD
21D64-2	21D64-44

- HotRod replaces over 170 spiral ignitors
- HotRod EX replaces over 260 flat ignitors
- Wire leads are 14.5” & 15.5” w/ stripped ends
- Includes universal mounting brackets & 2 ceramic wire nuts
- HotRod also comes in a 5 – single ignitor kits – pack (21D64-5PK)

White-Rodgers HOTROD series gives you options to upgrade from silicon carbide for longer life & fewer callbacks.

Premium direct OEM replacement 80V nitride review

AMANA

768A-815

LENNOX

768A-844

RHEEM

768A-844

THERMO PRODUCTS

768A-843

TRANE

768A-815

TRANE

768A-845

- OEM spec lead length, dimensions, and connectors
- White Teflon coated leads

White-Rodgers 768A series gives you 80V OEM Plug-n-Go harness connectors.

WHITE-RODGERS by COPELAND

Direct OEM replacement 120V silicon carbide review

OEM	Model #	Voltage	Lead length
Amana, Lennox	767A-356	120V	6”
White-Rodgers	767A-357	120V	5.25”
York, Lennox	767A-361	120V	5.25”
White-Rodgers	767A-365	120V	5.69”
White-Rodgers	767A-366	120V	5.31”
Amana, Lennox	767A-369	120V	5.5”
Carrier, Trane, Rheem	767A-370	120V	5.25”
Goodman, York, Nordyne, Trane, Amana, Armstrong	767A-371	120V	19.13”
Rheem, Lennox, Trane	767A-372	120V	5.25”
Goodman, York, Nordyne, Trane, Amana, Armstrong	767A-373	120V	5.25”
Whirlpool	767A-374	120V	11”
White Rodgers	767A-375	120V	1.38”
Trane	767A-376	120V	4.5”
Trane	767A-377	120V	4.5”
Amana	767A-378	120V	5.13”
York	767A-379	120V	7.5”
Armstrong	767A-380	120V	6.13”
York	767A-381	120V	7.5”
-	767A-382	120V	5.25”
Rheem	767A-383	120V	5.25”
Goodman	767A-384	120V	5.25”
Goodman	767A-385	120V	5.25”

767A Series
767A-371

White-Rodgers still carries a wide selection of 120V OEM style carbide direct replacements.

- Wide range of mounting styles
- Works with 15,17,& 45sec HSI systems
- All models come with wire nuts
- Extensive cross reference information online or on the W/R mobile app

White-Rodgers ignitor warranties

5 years

- HotRod nitride universal

Honeywell Glowfly warranty: 3 years

3 years

NEW

- 120V nitride OEM replacement
- Existing 80V nitride OEM replacement

1 year

- All silicon carbide OEM replacement