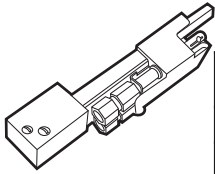


# Heating Components

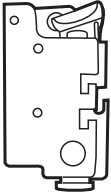
Compressors, Chillers, Condensers  
Motors  
Electrical  
Heating Components  
Indoor Air Quality  
Thermostats  
Oils & Chemicals  
Accessories, Supplies & Commodities  
Tools & Instruments  
Refrigeration

## IGNITION SYSTEMS PILOT BURNERS



The 2H or 2CH Pilot has SPDT switch action for use with 11 volt glow coil systems.

PART NO	ORIFICE SIZE	PILOT STYLE	TYPE GAS
LH680006	0.021	2H w/COIL	NAT.
LH680004	0.021	2H w/o COIL	NAT.



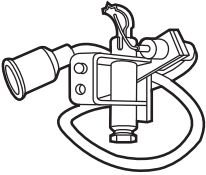
The 734 model pilot burner is for use with a 30 MV thermocouple in standing pilot applications. Snap in or threaded thermocouples may be used.

PART NO	ORIFICE SIZE	TYPE GAS
LH31JZ022	0.017	NAT.



Model E28 pilot burner is for assembly with LH33WZ506 electrode and HH71PD001 sensor. Spark igniter LH33WZ059 and pilot orifice LH39WD020 must be ordered separately. Natural gas

PART NO	ORIFICE SIZE	PILOT STYLE
LH31WZ507	0.02	E28

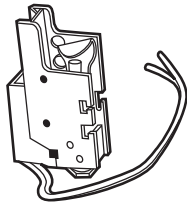


The following "J" style pilot burners are for use with LH33CM600 spark igniter. Burners come with spark electrode and high tension lead and insulating boot attached. Sensor LH33CM018 and Spark generator LH33CZ007 required.

PART NO	ORIFICE SIZE	LEAD LENGTH (in)	HOOD POSITION*
LH31CM023	0.018	18	ST
LH660003**	.023, .009	12.5	ST
LH660004	0.023	17	LH

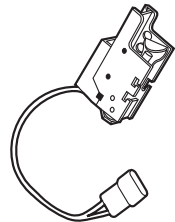
\* Angle of hood as viewed from electrode LH-Left Hand, ST-Straight.

\*\* Includes LH31CM021 NAT. gas burner and H32RN009 orifice for L.P. conversion.



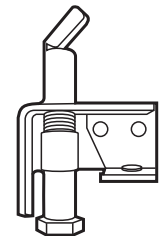
LH33JZ053 is a differential expansion pilot equipped with a 2 lead SPST switch for use with glow coil or spark ignition.

PART NO	ORIFICE SIZE	PILOT STYLE
LH33JZ053	0.017	732C



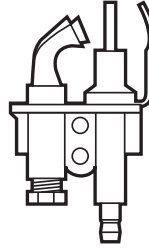
Differential expansion pilot equipped with a 3 lead SPDT switch for use with glow coil or spark ignition. Molex connector included.

PART NO	ORIFICE SIZE	PILOT STYLE
LH680005	0.017	740A



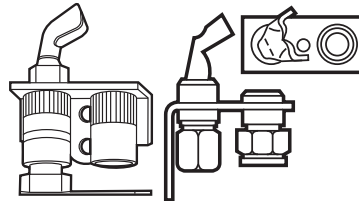
This LH31RB015 model pilot burner is used in standing pilot applications. **2 pilot orifices are provided.** One for natural gas is installed in the burner. The extra one is for use with L.P. gas

PART NO	ORIFICE SIZE	TYPE GAS
LH31RB015	.016.010	NAT.L.P.



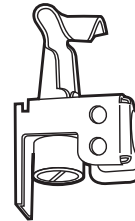
The Q345 pilot burner includes pilot orifice, spark electrode and flame ground. This burner is for use with Honeywell S86 spark module. Converts to LP gas with LH32RM015 pilot orifice.

PART NO	ORIFICE SIZE	TYPE GAS
LH680001	0.018	NAT.



Q314A pilot burner is a nonaerated type with .018 orifice for use with natural gas.

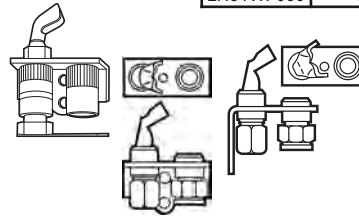
PART NO
LH660001



The E25 and E27 model pilot burners are for use with LH31WM001 Igniter and HH71PD001 Sensor. LH33WM001 Igniter must be used with HT01AW024 Ignition Transformer.

Pilot orifice LH39WD020 not furnished.  
• Natural gas • Orifice size: .020

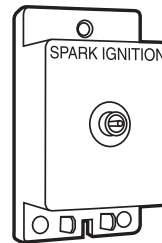
PART NO	MODEL NUMBER
LH31WF038	E25 (LH)
LH31WF039	E27 (RH)



Q314A Pilot burner is a nonaerated type with .018 orifice for use with natural gas.

PART NO
LH31AC0
LH31AC0

## IGNITERS



This solid state igniter features push on high tension lead connector. Igniter provides continuous spark until pilot flame is established. 24 volt system.

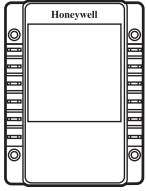
Replaces: LH33EP030, LH33WZ502.  
Igniter Model: 990

PART NO	FUNCTION	VOLTS
LH33WZ510	NON-100% LOCKOUT	24
LH33WZ512	5 MIN. 100% LOCKOUT	24
LH33WZ513	5 MIN. 100% LOCKOUT w/20 SEC. PILOT GAS PREPURGE	24

Igniters continued on the next page

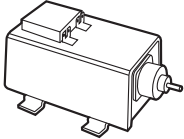
# Heating Components

## IGNITERS continued from previous page



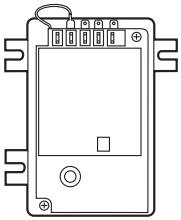
This igniter provides intermittent pilot burner ignition. S86E provides continuous trial for ignition. S86G and S86H provides safe lockout if pilot does not ignite in 90 second trial for ignition period. System volts - 25.

PART NO	MODEL NUMBER	COMPATIBLE H-W VALVE
LH660010	S86E	8,448,440
LH660011	S86H	ALL I.I.D. VALVES
LH680510	S86F	ALL I.I.D. VALVES



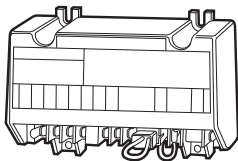
Use these igniters with the "J" style pilot burners. Igniters are suitable for panel mounting. The LH33CM600 may be mounted directly on Penn valves EF33CZ206 and 209. The LH33CZ003 can be mounted on Penn valve EF33CZ210 by removing mounting bracket. The LH33CM018 sensor and RM0 1680001 sensor cable are required. 24 volt system.

PART NO	MODEL NUMBER
LH33CM600	G60



Use these igniters with the "J" style pilot burners. Igniters are suitable for panel mounting. The LH33CM600 may be mounted directly on Penn valves EF33CZ206 and 209. The LH33CZ003 can be mounted on Penn valve EF33CZ210 by removing mounting bracket. The LH33CM018 sensor and RM01680001 sensor cable are required. 24 volt system.

PART NO	MODEL NUMBER
LH33CZ003	G67



Use these igniters with the "J" style pilot burners. Igniters are suitable for panel mounting. The LH33CM600 may be mounted directly on Penn valves EF33CZ206 and 209. The LH33CZ003 can be mounted on Penn valve EF33CZ210 by removing mounting bracket. The LH33CM018 sensor and RM01680001 sensor cable are required. 24 volt system.

PART NO
P691-S8610U

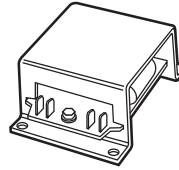
### Universal Intermittent Pilot Module

- Provides ignition sequence, flame rectification and safety shutoff for intermittent pilot central furnaces and heating appliances.
- For use with single rod or dual rod/remote sense applications.
- For use with natural or LP gas.
- Replaces over 300 existing IP modules including Honeywell, Robertshaw, Penn Johnson, Fenwal and others.



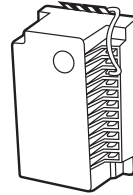
The SX611 Ignition Module generates a high-voltage spark and provides a continuous trial for pilot ignition. The SX611 will also automatically try to re-establish the pilot flame should it be extinguished while the thermostat is calling for heat.

PART NO	MODEL NUMBER
LH33EP040	SX611



Solid state igniter for use with glow coils used on 732 and 740 pilot burner. Igniter cycles glow coil and regulates coil voltage to increase coil life. System volts - 24

PART NO	MODEL NUMBER
LH33JZ050	870

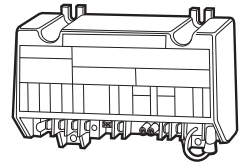


- Use with "J" style pilot.
- Panel mount.
- 24 volt.
- 100% lockout, 120 sec. nominal trial for ignition, w/4 sec. pilot gas prepurge.

PART NO	MODEL NUMBER
LH33CZ007	G770

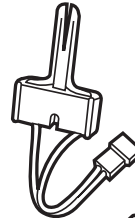
### Universal Hot Surface Ignition Module

- Provides easy field-replacement of a wide range of hot surface ignition modules by Honeywell, Robertshaw and White Rodgers.
- Single rod or remote dual rod rectification type flame sensing.
- LED signals system lockout, weak flame signal or internal error.
- Selectable number of ignition trials (1 or 3).
- Selectable length of trial for ignition (4 or 7 seconds).



PART NO
P691-S910U

### HOT SURFACE IGNITER



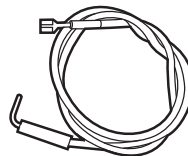
Designed for use with LH680-012or 013 flame sensor

PART NO	MODEL NUMBER
LH33ZS004	271



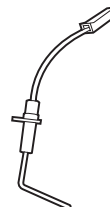
Designed specifically for use with LH68005 and LH33JZ053 pilot burners. Locating tabs and locking screw provide accurate location for required spark gap. Spike connection replaces quick connect style.

PART NO	MODEL NUMBER
LH680512	AM11



Provided with mounting clip. 60" leads with 5/64" thick insulation.

PART NO	MODEL NUMBER
LH33EW058	760-679



### FLAME SENSOR

Sensor is designed for use with LH33ZS004 Hot Surface Igniter.

PART NO	MODEL NUMBER
80° FURNACE USE LH680012	CE6
90° FURNACE USE LH680013	CE6

Compressors,  
Chillers, Condensers

Motors

Electrical

Heating  
Components

Indoor Air  
Quality

Thermostats

Oils &  
Chemicals

Accessories, Supplies  
& Commodities

Tools &  
Instruments

Refrigeration

## Universal Hot Surface Igniter Kit

*The Next Generation of  
Universal Hot Surface Igniter*

### • 100% Tested and Certified

Every igniter goes through a 3 point test to insure quality and dead on arrivals a thing of the past.

- Simple installation
- No additional control module needed
- Works with existing OEM control panels

**TOTALINE'S® Silicon Nitride Igniter is compatible with these furnace and boiler igniters:**

Amana	Intertherm	Rheem Rudd
American Road Equip	Janitrol	Roberts Gordon
Arco	Johnstone	Robertshaw Uni-line
Armstrong Air	John Woods	41-238 41-242 41-402
Clare Brothers	Keeprite	41-403 41-404 41-405
Coleman/Evcon	L.B. White Co.	41-407 41-408 41-409
Comfort Maker	Lennox	41-410 41-411 41-412
Detroit/Brant Radiant	Majestic	41-414 41-1090
DMO	Metzger	Smith HB
Dornbeck Furnace	Miller	Snyder General
Ducane	Nordyne	Superior Furnace
Enerco Tech	Norton	Surface Igniter Corp
Fridgidaire	101M 201D 201K	Tappen
Gemline	201L 201M 210N	Tempstar
Goodman	201P 201W 271	Trane
H.B. Smith	271D 271M 271N	Viessmann
Heil	271NM 271P 271R	Wayne Home Equipment
Hupp Industries	271RS 271W	Weil McLain
Intercity	Olsen ECR Industries	White LB Company
Integra	Philco	White Rodgers
	Raypak	Williamson
		York/Luxaire



Replaces these types of silicon carbide igniters.

### Universal Round Kit P694-700-4-1



### Universal Flat Kit P694-700-2-1



### 100% Tested

