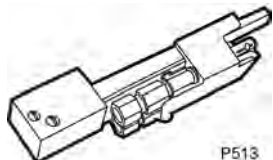


HEATING COMPONENTS

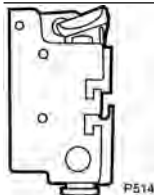
IGNITION SYSTEMS

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	.021	2H w/COIL	NAT.
LH680004	.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.

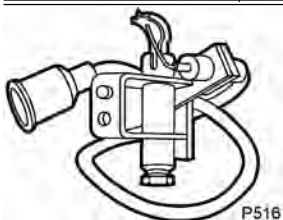
PART NO	ORIFICE SIZE	TYPE GAS
LH31JZ022	.017	NAT.



Model E28 pilot burner is for assembly with LH33VZ506 electrode and HH71PD001 sensor. Spark igniter LH33VZ059 and pilot orifice LH39WD020 must be ordered separately.

- Natural gas

PART NO	ORIFICE SIZE	PILOT STYLE
LH31WZ507	.020	E28

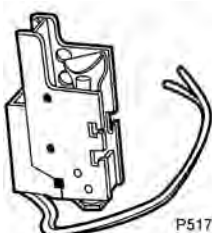


The following "J" style pilot burners are for use with LH33CM600 spark igniter. burners come with spark electrode and high tension lead and insulating boot attached. Sensor LH33CM018 and spark generator LH33CZ007 required.

PART NO	ORIFICE SIZE	LEAD LENGTH (in)	HOOD POSITION*
LH31CM017	.023	17.0	LH
LH31CM023	.018	18.0	ST
LH660003**	.023, .009	12.5	ST
LH660004	.023	17.0	LH
LH31CM300	.023	20.0	ST

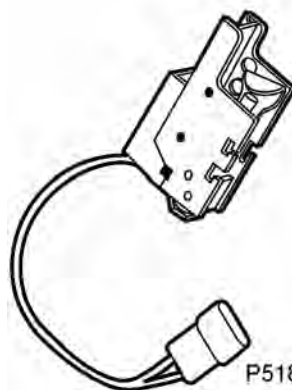
* Angle of hood as viewed from electrode LH-Left Hand, ST-Straight.

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



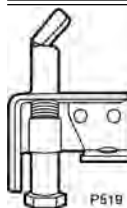
LH33JZ053 is a differential expansion pilot equipped with a 2 lead SPST switch for use with glow coil or spark ignition.

PART NO	ORIFICE SIZE	PILOT STYLE
LH33JZ053	.017	732C



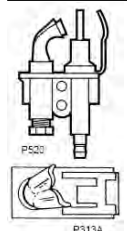
Differential expansion pilot equipped with a 3 lead SPDT switch for use with glow coil or spark ignition. Molex connector included.

PART NO	ORIFICE SIZE	PILOT STYLE
LH680005	.017	740A



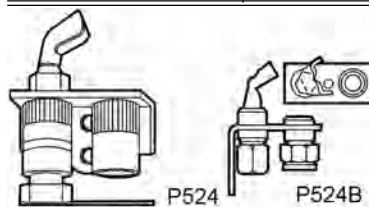
This LH31RB015 model pilot burner is used in standing pilot applications. 2 pilot orifices are provided. One for natural gas is installed in the burner. The extra one is for use with L.P. gas

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	.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)

HEATING COMPONENTS

IGNITION SYSTEMS

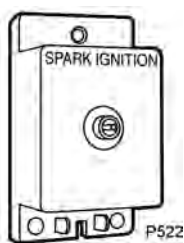
PILOT BURNERS



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

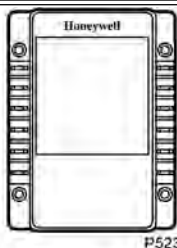
PART NO
LH31AC013
LH31AC015

IGNITERS



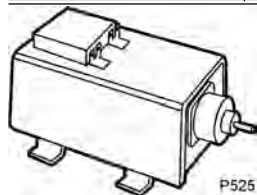
This solid state igniter features push on high tension lead connector. Igniter provides continuous spark until pilot flame is established. 24 volt system. Replaces: LH33EP030, LH33VZ502. Igniter Model: 990

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



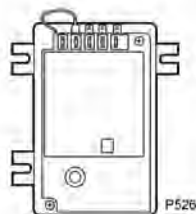
This igniter provides intermittent pilot burner ignition. S86E provides continuous trial for ignition. S86G and S86H provides safe lockout if pilot does not ignite in 90 second trial for ignition period. System volts - 25.

PART NO	MODEL NUMBER	COMPATIBLE H-W VALVE
LH660010	S86E	844,8440
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 RMO 1680001 sensor cable are required. 24 volt system.

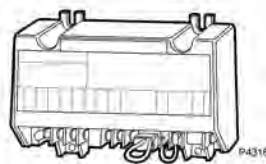
PART NO	MODEL NUMBER
LH33CM600	G60



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 RMO1680001 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 RMO1680001 sensor cable are required. 24 volt system.

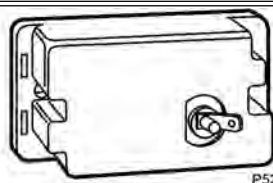


Universal Intermittent Pilot Module

- 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.

PART NO

P691-S8610U



Solid state igniter creates the ignition voltage required to ignite pilot gas. Provides automatic relight if pilot flame is extinguished while thermostat is calling for heat. Igniter model 5059.

PART NO	PRIMARY VOLTS	PRIMARY	SECONDARY
5059-023	25	1/4" Q.C.	1/4" Q.C.
LH33WZ059	120	6" LEADS	SPARK PLUG OR 1/4" Q.C.

NOTE: For use with LH31WZ507 pilot burner and LH33WZ506 electrode. HH71PD001 used as flame sensor and pilot switch.

HEATING COMPONENTS

IGNITION SYSTEMS

ELECTRODES

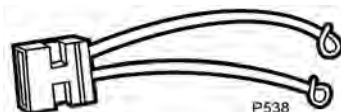


FLAME SENSOR

Sensor is designed for use with LH33ZS004 Hot Surface Igniter.

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

GLOW COILS



This is the replacement ignition coil for the 2H pilot burner supplied in the LH68006 pile package. Use with 48DA660025 resistance wire package.

PART NO	PILOT STYLE	NOM VOLTS
LH39JZ051	2H	10



This igniter coil assembly is used with pilot burners LH68005 and LH33JZ053 glow coil voltage source must be limited to maximum of 11 volts.

PART NO	PILOT STYLE	NOM VOLTS
LH39JZ020	740	10



This igniter is designed for use with transformer HT01BD024. Refer to appliance manufacturer's instructions for mounting.

PART NO	PILOT STYLE	NOM VOLTS
HH79CZ036	J	2.5

THERMOCOUPLES

TOTALINE® THERMOCOUPLE KIT



- For 30 mV controls
- Adapters to fit most pilot burners
- Installation instructions on package

With only three adapter fittings this thermocouple will service most pilot burners old or new, while the selection of lengths assures you of competitive pricing.

PART NO	SIZE (in)
P671-4242	24
P671-4302	30
P671-4362	36
P671-4482	48

UNIVERSAL THERMOCOUPLE

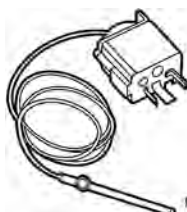
UNIVERSAL THERMOCOUPLE

- Replaces almost any 30 mV thermocouple.
- Average operating life of ten years.
- Bottom lock design allows for one hand installation.
- Universal adapter makes this the two-to-one installer-preferred thermocouple in independent HVAC survey.

PART NO	HONEYWELL PART NO	DESCRIPTION
P671-Q340A-18	A340A1066	Thermocouple 18"
P671-Q340A-24	Q340A1074	Thermocouple 24"
P671-Q340A-30	Q340A1082	Thermocouple 30"
P671-Q340A-36	Q340A1090	Thermocouple 36"
P671-Q340A-48	Q340A1108	Thermocouple 48"

PILOT SAFETY SWITCHES

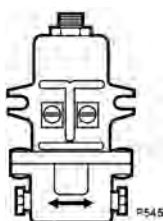
HH71PD001



This auto reset, mercury filled, SPDT pilot switch is used with glow coil and spark ignition systems. Check unit manufacturer's parts list for matching pilot burners. Model No.: 3049

PART NO	TERMCONN (in)	BULB MOUNTING STYLE	CAPIL LENGTH (in)
HH71PD001	1/4 Q.C.	LOCKNUT	30
HH71PD024	1/45 Q.C.	"C" RING	30

HH71MB066



This 100% shut-off pilot switch is for use with a nominal 30 mV thermocouple. On pilot flame failure, pilot gas and power to main valve are shut off until pilot is manually re-established.

PART NO	MODEL NUMBER	TUBE SIZE
HH71MB066	L62CC	1/4" O.D.

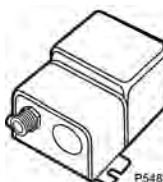
HH72CH003



- Solid state lockout timer
- 30 second trial for ignition
- May be reset after 30 sec.
- 24 volt input

PART NO	MODEL NUMBER
HH72CH003	9901141

HH71CC150



This auto reset, SPDT pilot switch is used with a nominal 30 mV thermocouple. Electrical connections are enclosed. Mount upright in box or on panel. Lighting pilot automatically closes switch.

PART NO	MODEL NUMBER
HH71CC150	L61LL

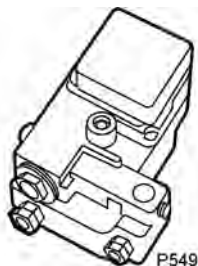
HEATING COMPONENTS

HEATING COMPONENTS

IGNITION SYSTEMS

PILOT SAFETY SWITCHES

EF53FB020

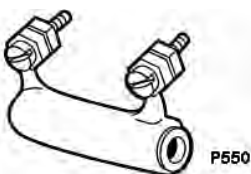


Manual reset pilot control which shuts off gas to pilot and main burners when pilot flame fails. Includes pilot gas filter. Use with nominal 30 mV thermocouple.

PART NO	MODEL NUMBER	TUBE SIZE
EF53FB020	C591A	1/4" O.D.

IGNITION SYSTEM ACCESSORIES

RESISTORS



Resistors and resistance wire are Required on some units to reduce the voltage to ignition glow coils. Refer to unit installation and service instructions.

PART NO	OHMS RESISTANCE	WATTS
HT21AU004	4	20
HT21AU020	5	20
55939D5	3	8

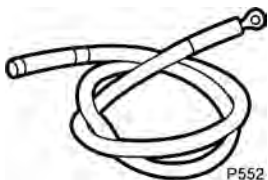
RESISTANCE WIRE



This package contains Stainless resistance wire used in reducing the 24 volt power source to nominal 9-11 volts required on some glow coil igniters. Instruction sheet included.

PART NO	LENGTH (in)	OHMS PER FT
48DA660025	156	.380

IGNITION LEADS



High Voltage Ignition Lead
Silicone insulated wire for ignition systems where high temperature, moisture resistant ignition lead is required on outdoor equipment.

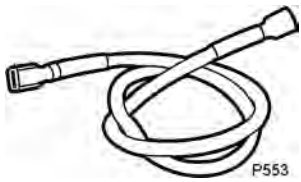
PART NO	END CONNECTIONS	WIRE LENGTH (in)
48MA403742	SPK. PLUG/RING TERM.	20
B0805050	SPARK PLUG	24
48DD410452	Q.C./PIN TERM.	24
301286-702	NONE	27
RM680002	QUICK CONNECT	24

HEATING COMPONENTS

IGNITION SYSTEMS

IGNITION SYSTEM ACCESSORIES

IGNITION LEADS



- Penn sensor lead
- Silicone-insulated copper conductor
- For use with LH33CM600 spark module
- Quick connects

PART NO	QC TYPE	QC INSULATED	PENN NO	LENGTH (in)
RM680003	STRAIGHT	YES	Y57JH27	27
58EGB0805041	ST./FLAG	NO	Y57HJ24	24

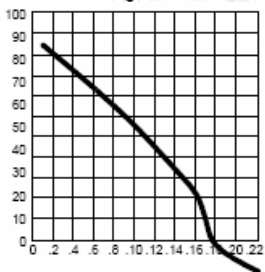
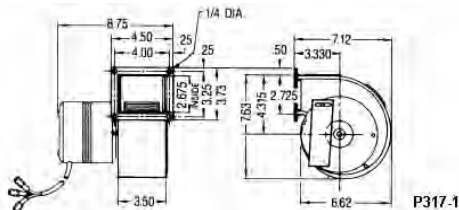
LOW PRESSURE SWITCH



These low pressure switches are used in ignition circuits to interrupt power when gas pressure is low or gas service to unit is shut down. Switch has 1/8" NPT connection on underside.

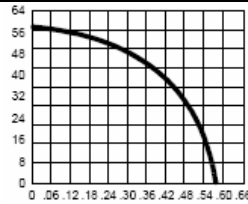
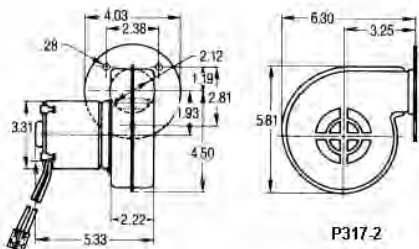
PART NO	RATING	PRESS SETTING
HK02LB005	1 AMP	2" WC
HK02LB018	1 AMP	6" WC

COMBUSTION BLOWER ASSEMBLY



- 100 CFM Max.
- 230 Volt
- 1/10 H.P.
- PSC motor
- 3450 RPM

PART NO
48DA660019



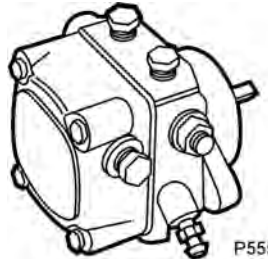
- 60 CFM Max.
- 230 Volt
- 1/80 H.P.
- Shaded pole motor
- 3200 RPM

PART NO

LA25UZ001

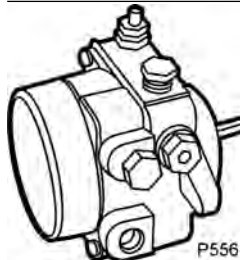
OIL BURNER COMPONENTS

OIL PUMPS



- Compact size
- 5/16" dia. shaft
- Integral bleed fitting for easy start up

PART NO	PUMP STAGES	PUMP RPM
58HH680027	1	1725
58HH680029	2	1725
58HH680001	1	3450
58HH680002	2	3450



- Compact size
- 5/16" dia. shaft
- Integral bleed fitting for easy start up

PART NO	PUMP STAGES	PUMP RPM
58HH680028	1	1725
58HH680030	2	1725
58HH680025	1	3450
58HH680026	2	3450

OIL BURNER IGNITION TRANSFORMER



- 115 Volt
- 10,000 Volt secondary
- 23 ma

BASE (in)

PART NO	WIDTH	LENGTH	MOUNTING CENTERS (in)
HT08BR115	4-7/16	5-7/16	3-1/4 x 4-1/4
HT08BR116	4-3/8	5-5/16	3-1/2 x 2-3/4

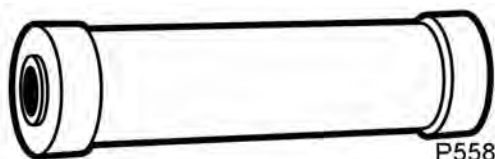
HEATING COMPONENTS

HEATING COMPONENTS

IGNITION SYSTEMS

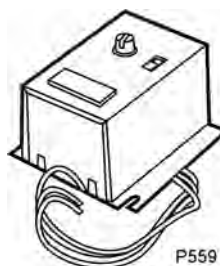
OIL BURNER COMPONENTS

COUPLINGS



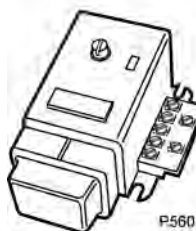
PART NO	ENDS (in)	LENGTH (in)
58HH680034	1/2 x 5/16	4-1/4

PRIMARY CONTROLS



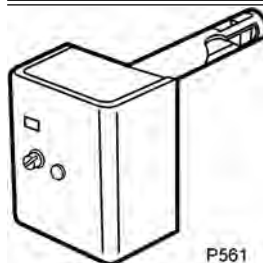
- Provides non-recycling control of an Intermittent ignition oil burner system
- Solid State flame sensing circuit
- Mounts on standard 4 x 4 box
- 45 second safety switch timing
- Manual reset required after safety shutdown
- Use with HH79AY060 CAD cell
- Integral transformer supplies 24V power to control circuit

PART NO	MODEL NUMBER
HH11AZ070	R8184G



- Solid state flame sensing circuit
- Mounts on standard 4 x 4 box
- 45 second safety switch timing
- Use with HH79AY060 cad cell
- Manual reset required after safety shutdown
- Integral 40va transformer
- Provides control of an intermittent ignition oil burner and power for a low voltage cooling control circuit
- Extra "y" and "g" connections for cooling

PART NO	MODEL NUMBER
HH11AZ067	R8184M



- Stack mounted
- Manual reset
- For use with 2 or 3 wire control
- Manual trip safety switch
- Interrupted ignition

PART NO	MODEL NUMBER
HH11AZ040	RA117A



- Fast response time
- Easy mounting for accurate sighting
- Easy replacement of plug in cell
- Cadcell hermetically sealed

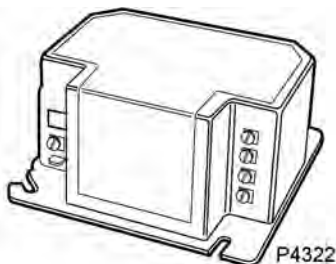
PART NO	MODEL NUMBER
956-154	C554

HEATING COMPONENTS

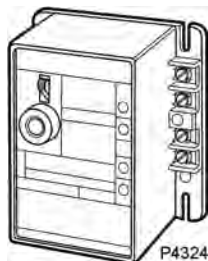
IGNITION SYSTEMS

OIL BURNER COMPONENTS

PRIMARY CONTROLS



- Compatible with hydronic and forced air applications.
- Available in 15 & 30-second lockout times.
- Safe start check.
- Status indicator light monitors burner flame status and system lockout.
- Uses proven flame detection and monitoring systems.
- Optional delay on valve, blower off delay models.



- Primary control operates the oil burner, oil valve, and ignition transformer in a response for a call for heat from the thermostat.
- Lockout indication lights reduce unnecessary service calls.
- Tamper resistant, rustproof, scratch resistant cover.
- Highest performance and reliability make it the preference of original equipment manufacturers.

PART NO	HONEYWELL PART NO	DESCRIPTION
P691-R7184A-P	R7184A1026	Interrupted Electronic Oil Primary
P691-R7184A-SS	R7184A1042	Interrupted Electronic Oil Primary
P691-R7184U	R7184U1012	Universal Interrupted Electronic Oil Primary
P691-R8484G	R8184G4009	Protectorelay/Oil Burner Control

SOLID-STATE OIL IGNITER

P691-S7184A Solid State Oil Igniter



- The solid state oil igniter is a line voltage igniter for residential oil fired burners, forced air furnaces, boilers, and water heaters.
- Mounts on burner housing.
- Diagnostic led indicates when the igniter has been energized.
- Igniter can be used in an intermittent (continuous) or interrupted mode of operation.

PART NO	HONEYWELL PART NO	DESCRIPTION
P691-S7184A	S7184A1023	Solid State Oil Igniter

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.
- **Guaranteed No Dead On Arrivals**
Successful initial ignition every time.
 - Simple installation
 - No additional control module needed
 - Works with existing OEM control panels

TOTALINE'S® Silicon Nitride Igniter replaces 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.

Totaline® Universal Hot Surface Igniter Kit Universal Round Kit P694-700-4-1



Universal Flat Kit P694-700-2-1



100% Tested

