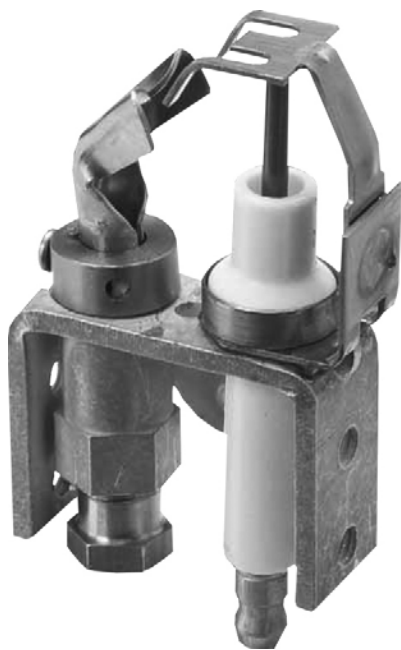


Pilot Burners

Universal Pilot Burners



- Universal Fit - This pilot burner offers adjustable mounting options, flexible hood orientations and the accessories needed for replacement
- Universal fittings and compact size allow these 4 models to replace over 100 Honeywell pilot applications

Description	Brand	Part Number
Standing Pilot Applications		
Universal Replacement	Honeywell	Q314U1001
Intermittent Pilot Applications		
Target Style Hood	Honeywell	Q345U1005
Batwing Style Hood	Honeywell	Q348U1009
Target Style Hood & an Integral Ignition Wire	Honeywell	Q3451U1000

Universal Pilot Burner Replacement Guide

Universal Service Part Q314U	Universal Service Part Q345U	Universal Service Part Q348U	Universal Service Part Q3451U
Q314A3471	Q345A1008	Q348A1002	Q3451B1004
Q314A3513	Q345A1016	Q348A1010	Q3451B1079
Q314A3547	Q345A1024	Q348A1101	Q3451B1095
Q314A3679	Q345A1065	Q348A1226	Q3451B1103
Q314A3687	Q345A1107	Q348A1275	Q3451B1178
Q314A3703	Q345A1156	Q348A1333	Q3451B1186
Q314A3729	Q345A1305	Q348A1341	Q3451B1194
Q314A3737	Q345A1313	Q348AAA	Q3451B1236
Q314A3802	Q345A1321	Q348AAB	Q3451B1244
Q314A3828	Q345A1446	Q348U1009	Q3451B1301
Q314A4586	Q345A1701		Q3451B1707
Q314A6094	Q345A1750		Q3451B1715
Q314A6102	Q345A1818		Q3451B2002
Q314A6557	Q345A2030		Q3451B2010
Q314A6631	Q345A2055		Q3451B2036
Q314A6862	Q345A2196		Q3451B2044
Q314A6946	Q345A2360		Q3451B2077
Q314A6953	Q345A2386		Q3451B2085
Q314A6961	Q345A2402		Q3451B2101
Q314A9015	Q345A2816		Q3451B3018
Q314U1001	Q345A2824		Q3451B3026
Q350A1065	Q345AFA		Q3451B3067
Q350A1222	Q345AFB		Q3451B3083
Q350A1271	Q345AFK		Q3451BF
Q350A1305	Q345AKB		Q3451BK
Q350A1321	Q345ALA		Q3451BL
Q350A1545	Q345ALB		Q3451BL
Q350A1644	Q345U1005		Q3451K2002
Q350A1677			Q3451K2010
Q350A1859			Q3451K2028
Q350A1867			Q3451KF
Q350A2097			Q3451U1000
Q350A2212			
Q350A2287			

Honeywell

Davies
Davies Supply Group Ltd.

Calgary (800) 661-1346
(403) 244-2161

Lethbridge (877) 595-7707
(403) 381-7707

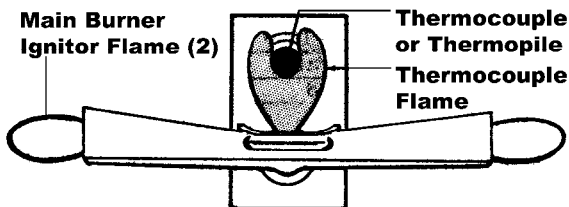
Saskatoon (877) 355-3377
(306) 933-2433

Pilot Burners

Pilot Burners - Aerated (Primary)



- Spud orifice-type pilot burner for main burner ignition with Q340 or Q390 Thermocouple for pilotstat safety control operation.
- Use with Q313 Thermopile generator for 750 mV powerpile applications

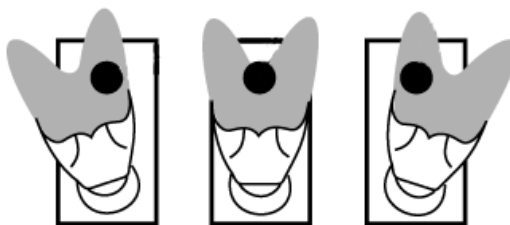


Tip Style	Type of Gas	Includes	Brand	Part Number
Dual, Straight Tip with 1" (25mm) wing span	Natural and LP	Natural gas orifice, LP gas orifice, 1/4" cc inlet fitting	Honeywell	Q327A1626

Pilot Burners - Aerated (Nonprimary)

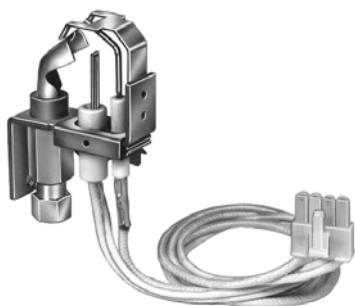


- Insert orifice-type pilot burner for main burner ignition with Q340 or Q390 Thermocouple for pilotstat safety control operation.
- Use with Q313 Thermopile generator for 750 mV powerpile applications



Tip Style	Type of Gas	Includes	Brand	Part Number
Single, Right Hand Tip	Natural	0.018" orifice; 1/4" cc inlet fitting	Honeywell	Q314A3729
Single, Straight Tip	Natural and LP	Natural and LP gas orifices, 1/4" cc inlet fitting, special mounting bracket with screws for converting "B" bracket to "A" bracket	Honeywell	Q314A4586
Single, 20° Left Hand Tip	Natural and LP	Natural and LP gas orifices, 1/4" cc inlet fitting, special mounting bracket with screws for converting "B" bracket to "A" bracket	Honeywell	Q314A6094
Single, 20° Right Hand Tip	Natural and LP	Natural and LP gas orifices, 1/4" cc inlet fitting, special mounting bracket with screws for converting "B" bracket to "A" bracket	Honeywell	Q314A6102

Pilot Burner For SmartValve™ System - Aerated (Primary)

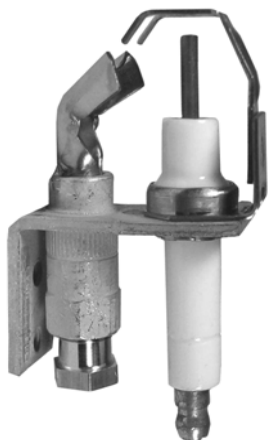


- Provides pilot flame ignition and sensing for SV9500 and SV9600 series SmartValve™ systems
- The ignitor lights the pilot burner, the flame rod proves the pilot flame and the pilot flame lights the main burner
- Replaceable Ignitor / Flame Rod Assembly Q3400A
- Integral keyed plug connects quick connection of ignitor and sensor
- 30" ignition wire length

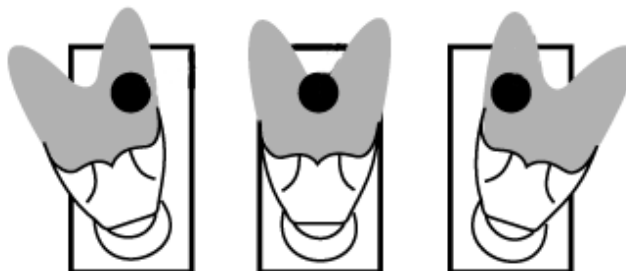
Tip Style	Type of Gas	Includes	Brand	Part Number
Single, 20° Left Hand Tip	Natural	Replaceable ignitor / flame rod assembly, BCR-18 (0.018") orifice, pilot target, ground electrode, "C" mounting bracket, 1/4" compression fitting and spring clip	Honeywell	Q3450C1185

Pilot Burners

Combination Pilot Burner and Ignitor - Aerated (Non-primary)

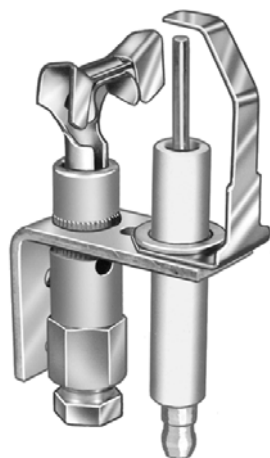


- Used with the S86, S860 S8610 or S8670 in intermittent pilot systems
- 1 1/4" compression fitting, BCR-18 orifice
- Includes pilot burner with B mounting bracket adapter, ceramic insulated Kanthal flame rod/spark igniter and ground strap



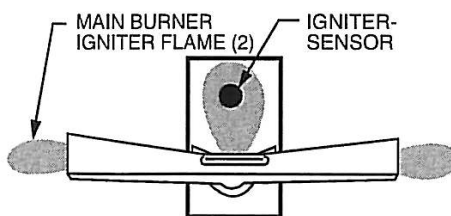
Tip Style	Type of Gas	Orifice Type	Brand	Part Number
Single, Front	Natural	Insert	Honeywell	Q345A1305
Single, 20° Left	Natural	Insert	Honeywell	Q345A1313
Single, 20° Right	Natural	Insert	Honeywell	Q345A1321

Combination Pilot Burner and Ignitor Sensor - Aerated



- Provides pilot flame ignition and sensing in intermittent pilot systems
- Compatible with all Honeywell intermittent ignition control modules
- 1/4" compression fitting, NE22 orifice
- Includes pilot burner with B mounting bracket adapter, ceramic-insulated Kanthal flame rod/spark igniter

Wing Span	Type of Gas	Orifice Type	Brand	Part Number
1"	Natural and LP	Spud	Honeywell	Q348A1002



Spark Igniter

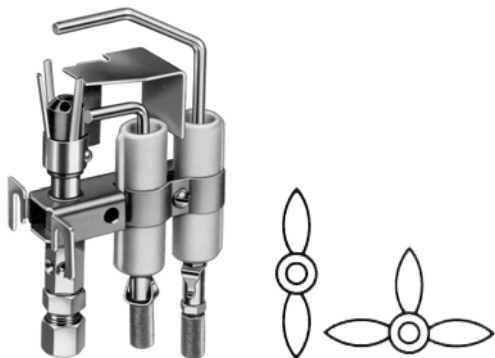


- Produces spark for direct ignition of main burner
- Use with S87C,D,D; S89E,F and Q354A
- Mounting: One 3/16" slot, three 3/16" untapped screw holes
- Includes inner Kanthal electrode with ceramic insulator, bracket and Kanthal ground strap

Electrode Length	Rod Angle	Mounting Bracket	Brand	Part Number
2 1/32" (52mm)	Standard Orientation	D Style	Honeywell	Q347A1004

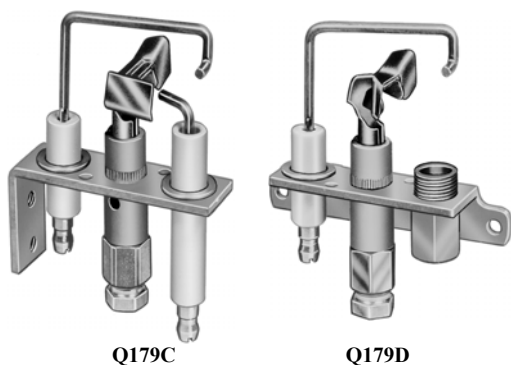
Pilot Burners

Flame Rectifier Gas Pilots



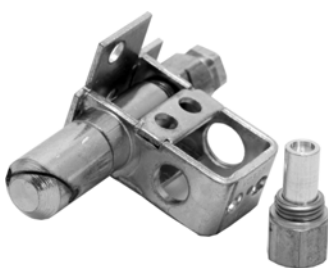
- Combination rectifying flame rod and pilot burner for use with suitable electronic relay on industrial or commercial gas burner or gas pilot-ignited oil burners
- Side or end mounting bracket and uses Rajah electrical connectors
- Includes natural gas orifice, compression coupling for 1/4" O.D. tubing
- Primary-aerated type burner is equipped with stainless steel fins to stabilize flame and provide correct flame rod area to ground area ratio for maximum flame current
- **Honeywell Q179A, B Series**

Miniature Rectification Pilot

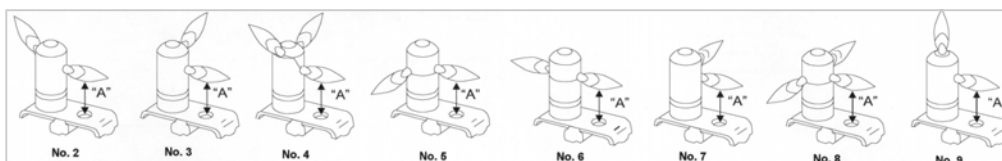


- Gas pilot burner assemblies prove pilot flame on industrial or commercial gas burners or gas pilot ignited oil burners
- Replace Q179A and Q179B
- Side or end mounting bracket and uses Rajah electrical connectors
- Includes natural gas orifice, compression coupling for 1/4" O.D. tubing
- Primary-aerated type burner is equipped with stainless steel fins to stabilize flame and provide correct flame rod area to ground area ratio for maximum flame current
- **Honeywell Q179C, D Series**

Combination Standing Pilot Burners - J Series



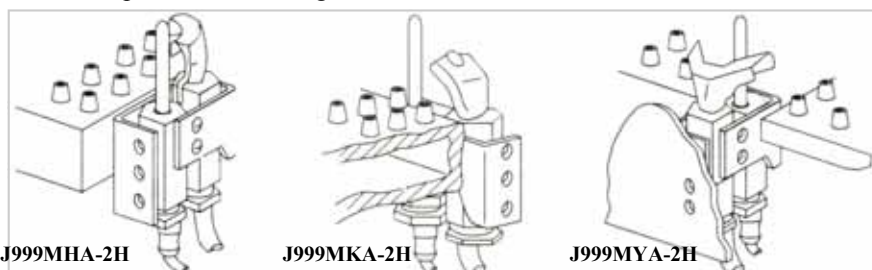
- Universal replacement pilot burners for J10_DDA & J11_DDA
- Includes one natural gas orifice, one LP gas orifice and necessary parts for mounting
- "A" dimension (figure below): 0.850"



Multi-Mount Universal Standing Pilot Burners - J Series



- For standing pilot applications
- Mounting brackets on all four sides of each burner permit adaptation to almost any application
- Three tapped holes in each bracket for vertical adjustment
- Includes one natural gas orifice, one LP gas orifice and necessary parts for mounting



Pilot Burners

Pilot Burners - Replacement for MIZER™ Retrofit Gas Control System

- Replacement pilot burner & sensor

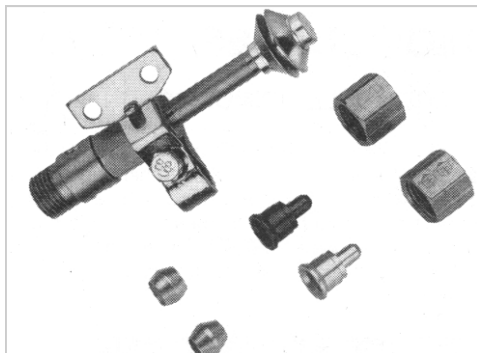


Q90AA-1C

Description	Brand	Part Number
Pilot Burner & Sensor Probe Kit (J989EKW) for Lennox Furnace	Baso	Q90AA-1C
Pilot Burner, Sensor Probe & Sensor Lead Kit (J982DKW) for Carrier / BDP Furnace	Baso	Q90BB-1C
Pilot Burner & Sensor Probe Kit (J986HXW) for Reznor Unit Heater	Baso	Q90CC-1C
Integral Pilot Burner & Sensor with Sensor Lead (J993HHW) for Reznor Rooftop	Baso	Q90DD-1C

Pilot Burners

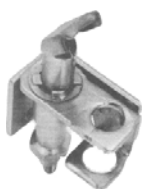
Universal 9B Pilot Uni-Kit



- Hooded, aerated, constant burning pilot for main burner ignition
- 4-ported pilot Uni-kit designed to replace all obsolete model 9B pilot variations
- When used with 1980 or 1970 series or similar thermocouples, it provides a heat source for the thermo-electric automatic pilot magnet
- **Robertshaw 1800 Series**

Incinerator-Target Pilot Uni-Kit

- Aerated type pilots, combining the best feature of an incinerator type pilot and target type pilot
- Have non-linting characteristics, no air shutters or supplementary shields requiring assembly or adjustment are needed
- Designed to be used with all Uni-Line and competitive thermocouples
- Comes w/natural gas orifice installed and includes separate LP gas orifice
- Includes 1/4" pilot tubing and an adapter that converts a threaded thermocouple/thermopile model 2CH to a snap-in thermocouple type.



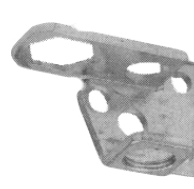
Hood Type 2



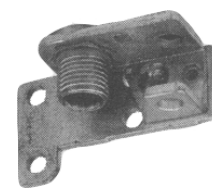
Hood Type 3



Hood Type 5



Bracket Type 1

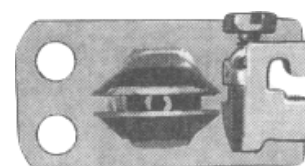
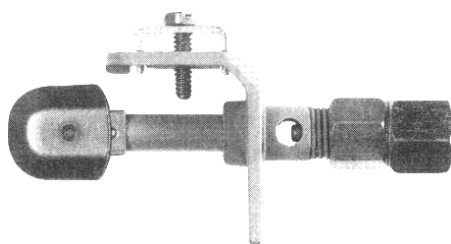


Bracket Type 10

Hood Type	Bracket Type	Flame Pattern	Factory Model	Brand	Part Number
5	1	90° left	5CHA-2	Robertshaw	1830-C011
2	1	Standard	2CH-1	Robertshaw	1830-110
3	10	Standard	3CH-10	Robertshaw	1830-502

Commercial Pilot Uni-Kits

- Normally used with 4020 (FMDA) and 4030 (FMEA) series safety valves, or similar competitive devices
- Comes with a Natural gas orifice installed and includes a separate L.P. gas orifice
- Fit 1/4" tubing and 3/16" tubing applications
- **Robertshaw 1890 Series**



Robertshaw

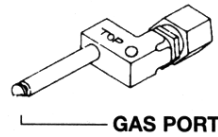
Pilot Burners

Mini-Pilot 100's - Exact Replacements & Uni-Kits

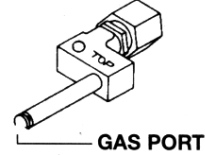
- Non-aerated (no primary air)
- Can be used on all gases with no orifice change
- Position sensitive and care should be taken to install them in their correct position (TOP stamped into casting at top when applied)



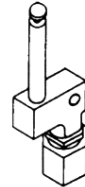
**HORIZONTAL ANGLE
TYPE #2 KIT**



**HORIZONTAL ANGLE
TYPE #4 KIT**



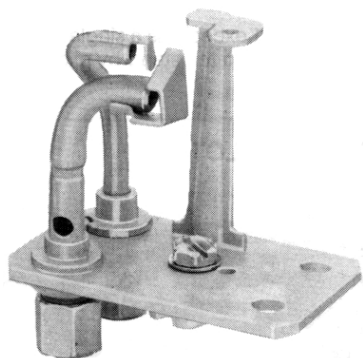
**VERTICAL BOTTOM
INLET TYPE #6 KIT**



Mounting	Type # Kit	Tube Length	Inlet Size (Tubing)	Brand	Part Number
Horizontal Angle	2	24"	3/16" & 1/4"	Robertshaw	1851-051
Horizontal Angle	2	60"	3/16" & 1/4"	Robertshaw	1851-054
Horizontal Angle	4	24"	3/16" & 1/4"	Robertshaw	1851-151
Horizontal Angle	4	48"	3/16" & 1/4"	Robertshaw	1851-153
Vertical Bottom Inlet	6	24"	3/16" & 1/4"	Robertshaw	1851-252

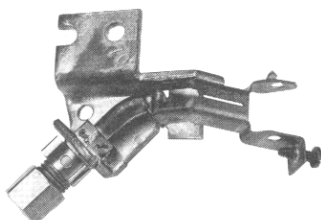
Pilot Burners

Pilot Uni-Kits

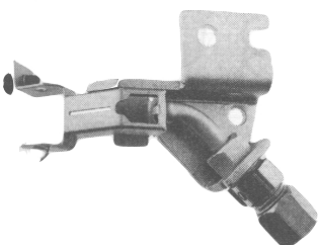


- Used with 4000 (FM) series safety valves
- Comes with a Natural gas orifice installed and includes a separate L.P. gas orifice
- **Robertshaw 1896 Series**

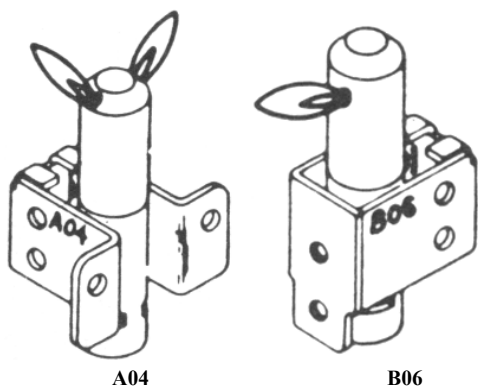
Pilots



- Used with 4060 (MSC) safety valve on Natural or LP gas
- To select a replacement, match the factory model number stamped on the pilot to the Uni-Line number and check the photo for mounting configuration
- **Robertshaw 1898 Series**



Pilot Burners



- Used with mercury flame sensors
- Vertical mounting

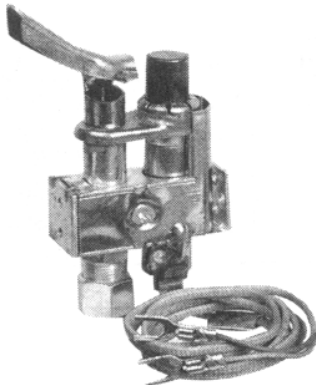
Bracket Style	Flame Position	Brand	Part Number
A	Off of chamfer (45°)	White Rodgers	A04
B	Off of side (horizontal)	White Rodgers	B06

Pilot Burners

Pilot Burner & Generator Combination - Universal Replacement



PG9A28

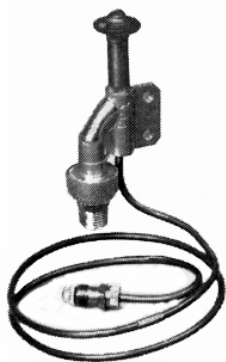


PG9A38

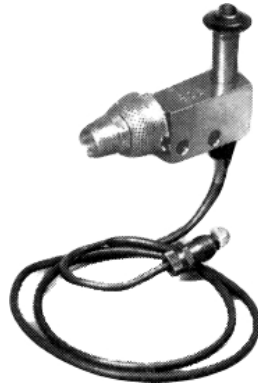
- Provides a pilot flame for igniting gas burners while generating millivolt output to operate gas valves and relays
- Single blue flame burner for quiet operation and maximum flame stability
- "Snorkel" primary air path incinerates dust eliminating linting problems
- Flame ring surrounding generator ensures high output and extended generator life
- High temperature stainless steel generator cover
- **Output Voltage:** 750mV nominal, open circuit
- **Head Type:** Channel Type
- **Leads:** Standard 2-wire, 32" with spade terminals
- **Base Fittings:** Straight type for 1/4" OD tubing, compression nut included
- **Includes:** (1) orifice base fitting for Natural Gas & (1) orifice base fittings for LP Gas (less ferrule and nut)
- **Certification:** IAS Certified

Porting	Orifice	Brand	Part Number
90° right & 90° left, 3/4" head width	.022	White Rodgers	PG9A27JTL22
90° right & 90° left, 2 3/16" head width	.024	White Rodgers	PG9A28JTL24
180°, 0.87" length	.024	White Rodgers	PG9A38JTL24

Pilot Burner & Thermocouple Combination - Universal Replacement



PCA



PCB

- Universal Replacement - Modified 4-port pilot burner / thermocouple combination
- G bushing connector for single thermocouple thermopilot valves and relays
- **Output:** 13mV nominal, open circuit
- **Port:** 50 (universal replacement)
- **Base Orifice Fitting:** 1/4" tube, external thread, straight
- **Mounting:** Horizontal or vertical
- **Gas Consumption:** 500 Btu/hr (approx)
- **Certification:** IAS Certified

Inlet	Lead	Brand	Part Number
Vertical	48"	White Rodgers	PCA50TL14L48
Horizontal	48"	White Rodgers	PCB50TL14L48

Pilot Relight Controls & Kits

Pilot Relight Control - Spark Ignition



- Generates spark until a pilot flame is sensed
- Begins sparking immediately if flame extinguishes
- Rugged solid state module design
- Spark plug and 1/4" spade connectors

Input Voltage	Electrical Rating	Brand	Part Number
120VAC	0.04 amps	White Rodgers	5059A-21
24VAC	0.03 amps	White Rodgers	5059-023
24VAC	0.03 amps	White Rodgers	5059-25

Ignition Electrode Assembly

- Replaces Cycle-Pilot® ignition electrodes and cable assemblies



Description	Brand	Part Number
Includes 24" lead with slip on bracket & perforated mounting strap for varying applications	White Rodgers	760-56

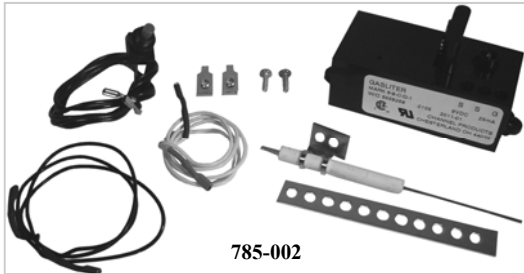
Pilot Relight Controls & Kits

Automatic Pilot Relight Kits



785-001

- Designed for use on rooftop heating equipment, water heaters, boilers, space heaters, unit heaters, dryers and other commercial, industrial and residential appliances where the problem of pilot outage may occur
- It should only be applied to those systems which already incorporate the necessary pilot-safety control system
- Ambient Temperature Range: -40F to 185F
- High Voltage Output: 15KV maximum



785-002

Description	Electrical Ratings	Spark Gap	Part Number
Includes ignitor assembly & mounting bracket	24/120VAC, .1 amp	1/8" maximum	785-001
Includes ignitor assembly & reset assembly	9VDC	1/8" maximum	785-002

Electrode Assembly - Replacement



- Replacement electrode assembly for automatic pilot relight kits

Description	Part Number
Electrode Assembly for 785-001 & 785-002 Relight Kits	10-395