



50D50-801

50D50-801 PROVEN PILOT SPARK CONTROL KIT REPLACES LENNOX 30W33

Microprocessor Based Gas Ignition and Primary Safety Control
Designed for Interrupted Spark and Burner Supervision of All Gases
Used in Gas Fired Appliance Applications

FEATURES

- Field service replacement for most Honeywell, Robertshaw, and Johnson Controls Intermittent Pilot Ignition Controls used on Lennox G20, G20R, G23 and G28 furnaces.
- Kit includes mounting bracket, flame sensor, and all other needed parts.
- Color LED indicator for diagnostics.

SPECIFICATIONS

Electrical Ratings Input 18 to 30 VAC, 60 Hz

Maximum Input Current @ 25 VAC 0.2A + MV + PV @ 25°C

Relay Contact Ratings:

Pilot Valve Relay 1.5A @ 25 VAC, 60 Hz

Main Valve Relay 1.5A @ 25 VAC, 60 Hz

Spark Output: Gap 0.1" - 0.2", 15 kV, 25Hz
Max cable length 3ft (0.9 m)

Flame Current Requirements:

Minimum current to insure

flame detection 2 µA DC*

Maximum current for non-detection... 0.2 µA DC

Maximum allowable leakage resistance 100 M ohms

*Measure with a DC microammeter in series with the flame probe lead

Operating Temperature Range -40° to +175°F (-40° to +80°C)

Humidity Range To 95% relative humidity (non-condensing)

Agency Approvals CSA USA / Canada

Gases Approved Natural, Manufactured, Mixed, Liquid
Petroleum, and LP Gas Air Mixtures

50D50-801 CONFIGURATION (All Times in Seconds)

Model Number	Key	Reset Time	Prepurge	Retries	Safety Time
50D50-801	B	300	30	Continuous	90

CROSS REFERENCE

Lennox / Armstrong / Ducane	Lennox / Armstrong / Ducane	Johnson Controls	Robertshaw	Honeywell	ICM
18G91	65K93	G776RDG-1	SP735L	S8660K1006	ICM2902
18G9101	65K9301	G776RDG-2	SP745		ICM293
28L49	69J36	G776RDG-10			
28L4901	69J3601	G776RDG-11			
30W33	74H26	G776RDG-14			
30W3301	74H2601				
34G66	80N92				
34G6601	80N9201				
38707B001	93K21				
41K87	93K2101				
41K8701	97H04				
48K99	97H0401				
48K9901	LB-90087A				
53L90	LB-90701A				
53L9001	LB-90701B				
63K24	LB-90701C				
63K2401	LB-9071B				
	LB-92869A				