

G77xRJx and G776 Series

# Replacement Intermittent Pilot Ignition Control Kit



## Description

The G775RJD-2C is used to replace a York G775RJD-1 ignition control and the G775RJD-15C is used to replace a York G775RJD-10, G775RJD-12, G775RJD-13 or G775RJD-14 ignition control. The G776RGD-14 ignition control kit can ONLY be used to replace a Lennox G20, G20R, G23, and G26 series unit that has a Johnson Controls G776RGD-1, G776RGD-2, G776RGD-10, or G776RGD-11 ignition control installed; or has been replaced with a Lennox 65K93 ignition replacement kit.

The G776RGD kit contains:

- G776RGD-14 ignition control
- Two wires with insulated 3/16 in. female quick connectors
- Two wire nuts

## Features

- microprocessor-based design
- diagnostic LED
- automatic recycle

## Applications

The G77xRJx and G776 controls are designed to ignite gas at the pilot burner so that the pilot flame can ignite the main burner. Pilot gas is ignited by a spark electrode, which is positioned in the pilot gas stream. The ignition control proves the presence of pilot flame by means of flame rectification, and automatically shuts off the gas supply to the pilot and main burners if the pilot flame is not

proven. The G77xRJx and G776 series are approved for ignition of natural gas, Liquefied Petroleum (LP) gas, manufactured gas, mixed gas, or LP gas-air mixtures. The G77xRJx and G776 series can be used on gas-fired equipment with a maximum firing rate of 400,000 Btu/hr.

## To Order

Specify the code number from the following selection chart.

## Selection Chart

Code Number	Recycle Time	Trial Time for Ignition	Rollout Switch?	Prepurge Time	Control Wiring	Spark Transformer
G770RJA-1R	None	85 seconds	Yes	0 second	1/4 in. male spade wiring terminals	Spike
G775RJD-2C	5 minutes			15 seconds	3/16" male spade wiring terminals on the PV1, MV3, & RO/R1 positions; 1/4" male spade wiring terminals on remaining positions	
G775RJD-15C						
G776RGD-14C	60 seconds	No	1/4 in. male spade wiring terminals	Rajah		

## Specifications

G77xRJx and G776 Replacement Intermittent Pilot Ignition Control Kit	
Ignition Source	Intermittent
Operating Voltage	24 VAC 50/60 Hz
Flame Detection Means	Flame rectification
Flame Detection Type	Remote sensing
Minimum Flame Current	0.15 microampere
Flame Failure Response Time	0.8 second
Spark Gap	0.1 inch
Operating Current	0.2A nominal + main valve
Contact Rating (Pilot and Main Valves)	2A continuous, 5A inrush
Operating Temperature	-40 to 160° F
Wiring Connections	<b>Spark</b> Spike or Rajah <sup>(a)</sup> <b>Control</b> 1/4 inch male spade; 3/16 inch male spade <sup>(a)</sup>
Agency Listings	CSA (AGA/CGA) Australian Gas

(a) See Selection Chart.