



© 2006 Lennox Industries Inc.
Dallas, Texas, USA

GAS UNITS KITS AND ACCESSORIES



504,962M
08/2006
Supersedes 02/2006

SURELIGHT IGNITION BOARD REPLACEMENT KIT

INSTALLATION INSTRUCTION FOR SURELIGHT IGNITION BOARD REPLACEMENT KIT (83M00) TO REPLACE SURELIGHT® IGNITION CONTROL BOARDS

Shipping & Packing List

Package 1 of 1 contains

- 1 - SureLight® ignition control board
- 1 - Wiring harness (9-pin to 12-pin)
- 1 - Wiring harness (4-pin to 6-pin)
- 1 - Mounting panel
- 4 - Stand-off fasteners
- 1 - Circuit breaker
- 1 - Wire
- 2 - Wiring diagrams

Shipping Damage

Check all equipment for shipping damage. If you find any damaged equipment, immediately contact the last carrier.

Application

This kit contains all components required to replace any existing SureLight® ignition control board in any Lennox gas furnace.

Installation

⚠ WARNING

This kit is to be installed by a qualified Lennox service technician or other qualified agency in accordance with the manufacturer's instructions, all codes, and requirements of the authority having jurisdiction.

⚠ CAUTION

As with any mechanical equipment, personal injury can result from contact with sharp sheet metal edges. Be careful when you handle this equipment.

⚠ WARNING

Disconnect power before servicing unit.

⚠ CAUTION

Control board may be damaged by static electricity. Discharge static electricity before handling board.

Replacing 69M0801, 32M8801, 10M9301, 56L8401 or 12L6901

- 1 - Disconnect all electrical power supplies and shut off the gas supply to the furnace.

08/06

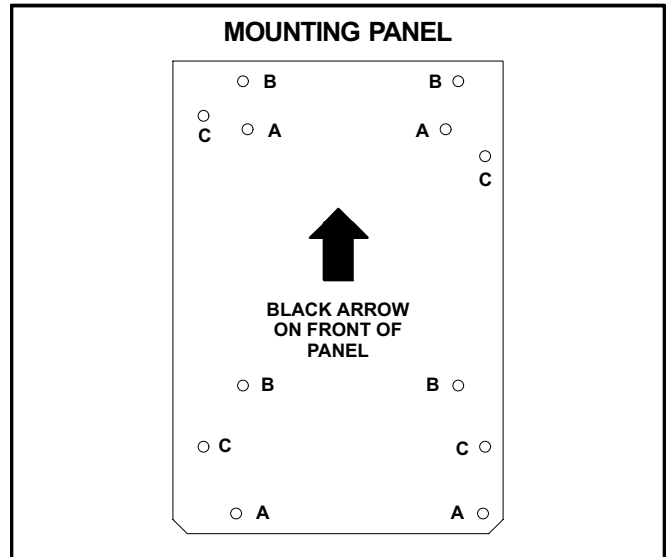


FIGURE 1

- 2 - Remove the access panel.
- 3 - Disconnect wiring and remove existing ignition control board from the control box.
- 4 - Install provided circuit breaker in unit control box or secure circuit breaker to a wire harness using wire ties.
- 5 - Position the provided mounting panel so that the black arrow on the front of the panel is pointing up. Position the replacement SureLight® ignition control board over the holes marked "A" in figure 1. Insert the replacement control stand-off fasteners into the holes in the mounting panel.
- 6 - Insert the four provided stand-off fasteners into the back of the mounting panel in the holes marked "B" in figure 1. Insert the replacement control board assembly into the existing holes in the control box or blower panel.
- 7 - **If the existing transformer has quick connect terminals:**
 - a - Disconnect the blue wire from the transformer from position 3 on the 12-pin connector.
 - b - Reconnect the blue transformer wire to one of the circuit breaker terminals.
 - c - Connect the provided 4" blue wire to position 3 on the 12-pin connector and to the other circuit breaker terminal.
- 8 - Connect the remaining 120VAC hot and neutral wires and the flame sense wire to the replacement control per table 1.

504,962M



Table 1

Type	Existing Control Board	Replacement Control Board
L1 120 VAC	COOL-H	COOL
	HEAT-H	HEAT
	PARK (2)	PARK (2)
	EAC-H	EAC
	LINE-H	LINE
	XFMR-H	XFMR
	HUM-H	HUM
	NONE	FAN
Neutral 120 VAC	LINE-N	Neutral 120 VAC (5)
	HUM-N	
	EAC-N	
	XFMR-N	
	CIR-N	
Flame Sense	E33	FS

- 9 - Affix wiring diagram 535034W adjacent to the existing unit wiring diagram.
- 10 - Replace the access panel.
- 11 - Restore the electrical power and gas supply. Refer to the furnace installation instructions for start-up and check-out procedures.

Replacing 97L4801, 63K8901, 56L8301 or 24L8501

- 1 - Disconnect all electrical power supplies and shut off the gas supply to the furnace.
- 2 - Remove the access panel.
- 3 - Disconnect wiring and remove existing ignition control board from the control box.
- 4 - **When replacing original 63K8901 board in G24M-10 or G27M-1 in upflow or horizontal applications and G27M-100-1 or -120-1 in downflow applications** -- Look at the existing control board holes as if the unit were installed in the upflow position. Make a mark 1" to the right of each of the existing mounting holes. Position the provided mounting panel over these marks, so that the holes marked "C" in figure 1 are over the marks. Use the mounting panel as a template to drill 3/16" holes through each of the holes marked "A." Install the replacement control in the freshly drilled holes in the blower access panel. Use aluminum tape to seal the unused holes.

When replacing original 63K8901 board in G24M-10, G27M-60-1 or G27M-75-1 in downflow applications -- Look at the existing control board holes as if the unit were installed in the upflow position. Make a mark 5/8" ABOVE each of the existing mounting holes. Position the provided mounting panel over these marks, so that the holes marked "C" in figure 1 are over the marks. Use the mounting panel as a template to drill 3/16" holes through each of the holes marked "A." Install the replacement control in the freshly drilled holes in the blower access panel. Use aluminum tape to seal the unused holes.

All other units -- Position the provided mounting panel so that the black arrow on the front of the panel is pointing up. Position the replacement SureLight® ignition control board over the holes marked "A" in figure 1. Insert the replacement control stand-off fasteners into the holes in the mounting panel.

- 5 - **80UHG, 90UGF, G23, G26, GHR26, G32, GHR32, G40, G41, G50, G51, G60 and G61 units** – Insert the four provided stand-off fasteners into the back of the mounting panel in the holes marked "B" in figure 1.
- 80MGF, G24M and G27M units** -- Insert the four provided stand-off fasteners into the back of the mounting panel into the holes marked "C" in figure 1.
- 6 - Insert the replacement control board assembly into the existing holes in the control box or blower panel.
- 7 - **If the existing transformer is leaded:**
 - a - Connect the blue transformer wire to one of the circuit breaker terminals.
 - b - Connect the 9-pin to 12-pin wiring harness to the unit 9-pin connector.
 - c - Connect the provided 4-pin to 6-pin wiring harness to the unit 6-pin connector.
 - d - Connect the blue wire from position 3 on the 12-pin connector to the circuit breaker terminal.
 - e - Connect the yellow wire from position 6 on the 12-pin connector to the yellow wire from the transformer.
- 8 - **If the existing transformer has quick connect terminals:**
 - a - Connect the blue wire from position 3 on the 12-pin connector to the circuit breaker terminal.
 - b - Connect the yellow wire from position 6 on the 12-pin connector to the yellow wire from the transformer.
- 9 - Connect the remaining 120VAC hot and neutral wires and the flame sense wire to the replacement control per table 2.
- 10 - Affix wiring diagram 535278W adjacent to the existing unit wiring diagram.
- 11 - Replace the access panel.
- 12 - Restore the electrical power and gas supply. Refer to the furnace installation instructions for start-up and check-out procedures.

Table 2

Type	Existing Control Board	Replacement Control Board
L1 120 VAC	ACB COOL	COOL
	ACB HEAT	HEAT
	PARK M1	PARK
	PARK M2	PARK
	ACC	EAC
	120VAC HOT	LINE
	120VAC TX	XFMR
	HTG ACC	HUM
	ACB LOW	FAN
Neutral 120 VAC	Neutral 120 VAC Return (5)	Neutral 120 VAC (5)
Flame Sense	E33	FS