

## PACKAGED UNITS KITS ACCESSORIES

504,884M  
1/2004  
Supersedes 11/2003

## IGNITION CONTROL REPLACEMENT KIT

### INSTALLATION INSTRUCTIONS FOR IGNITION CONTROL KIT (LB-99228A, B, C, D; 34M64, 34M65, 34M66, 76M30) USED ON GCS3, 9, 11 PACKAGED UNITS

#### Shipping and Packing List

##### Package 1 of 1 contains:

- 1- Ignition control

Check packaging for shipping damage. Contact the last carrier immediately if any shipping damage is found.

#### Application

The Ignition Control Replacement Kit is used on GCS3, 9, and 11 units. See table 1 for usage.

TABLE 1

Unit	Old Part No.*	Replacement Kit	New Part No.
GCS3	P-8-9277, 62A1101	34M64 LB-99228A	32M1901
GCS9	35C8001	34M65 LB-99228B	32M2001
GCS9	31C0801	34M66 LB-99228C	32M2101
GCS11	LB-47903D 88C2101	76M30 LB-99228D	75M1901

\*The old part number is listed on the ignition coil label. The ignition coil is the black cylinder on the ignition control board.

#### Installation

### ⚠ WARNING

**Improper installation, adjustment, alteration, service or maintenance can cause property damage, personal injury or loss of life. Installation and service must be performed by a qualified installer, service agency or the gas supplier**

- 1- Disconnect all power to unit.
- 2- Open control box in heat section. Mark and remove wires to old ignition control. Remove and discard old ignition control.
- 3- Use the new ignition control as a template and position in the same location as the old control. Orient the board terminals the same direction as the old board. Use a scratch awl or punch to mark location of board stand-offs. Secure board with #6 or #8 sheet metal screws.

- 4- Connect wires to appropriate terminal marking on the new ignition control board. Terminals on both new and old boards are the same with one exception: **NEW BOARDS DO NOT HAVE TERMINAL E2. Connect the "E2" wire to "B.GND" on the new boards. Connect B.GND green wire, provided on board, to equipment ground.** See figure 1 for GCS3 and GCS9 units; see figure 2 for GCS11 units.

- 5- The new ignition control has a flame sensor test jack labeled "P1". The flame sensor current must be more than 1.0 micro amp.

#### Diagnostic LEDs

During power-up, the LED will light for one second and turn off to indicate normal operation.

LED	Indicates
Steady off.	Normal operation after power-up.
Steady on.	Internal control failure.
Two flashes.	Flame fault.**
Three flashes.	Ignition lockout fault.

\*\*May indicate a flame was detected during pre-or post-purge or there is a flame sensing error.

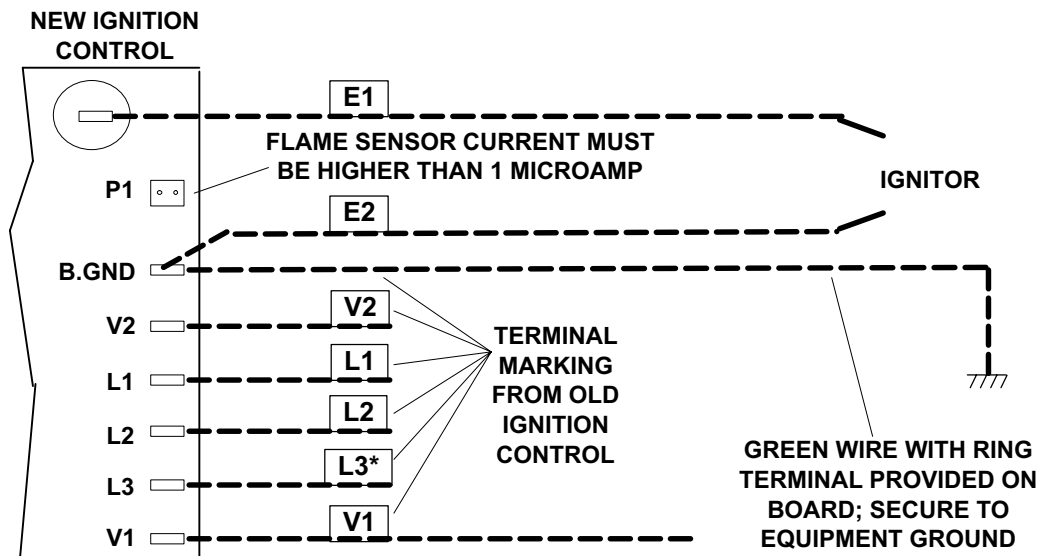
#### Troubleshooting Guide

Symptom	Recommended Actions
Control will not start up.	1-Check wiring. 2-No voltage at L1, check tstat. 3-Check fuse/circuit breaker. 4-Faulty transformer on control. 5-Faulty control, consult manufacturer.
Gas valve on and no spark through TFI	1-Shorted electrode - re-establish 1/8" gap. 2-High voltage cable is disconnected. 3-Check wiring.
Spark on and gas valve off	1-Valve coil open. 2-Valve wire disconnected. 3-Faulty control, check voltage at V1.
Flame during trial for ignition but no flame sense after trial for ignition	1-Check electrode position. 2-Check high voltage wire and connection. 3-Poor ground at burner. 4-Check flame current. 5-Check flame current on control.

# ⚠ CAUTION

Danger of sharp metallic edges. Can cause injury.  
Take care when servicing unit to avoid accidental  
contact with sharp edges.

## WIRING - GCS3 AND GCS9



\*L3 terminal not found on all ignition controls.

FIGURE 1

## WIRING - GCS11

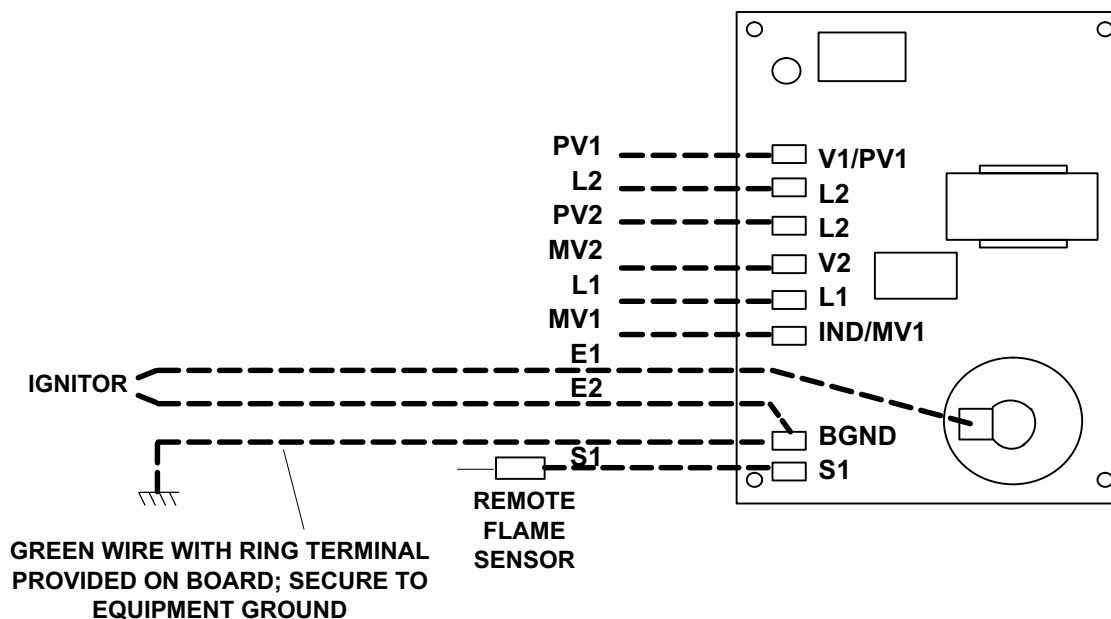


FIGURE 2