

### TWO-STAGE CONTROL REPLACEMENT KIT

#### INSTALLATION INSTRUCTIONS FOR TWO-STAGE CONTROL REPLACEMENT KIT (26M33) USED WITH G32Q, GHR32Q, G32V AND GHR32V UNITS

#### Shipping and Packing List

##### Package 1 of 1 contains:

- 1 - TSG1-3 two-stage control
- 4 - Wiring diagrams
- 2 - Wire nuts
- 5 - Wires
- 1 - Three-wire harness

#### Application

Kit 26M33 replaces existing TSG1-1 two-stage control with TSG1-3 control in G32Q/V and GHR32Q/V units. The replacement board includes 1/4" quick connect terminals for indoor blower and combustion air inducer connections. The existing 9-pin jack is eliminated in this application.

### ⚠ WARNING

**These instructions must be followed exactly. This kit must be installed by a qualified service technician. Improper installation may result in personal injury, loss of life or equipment damage.**

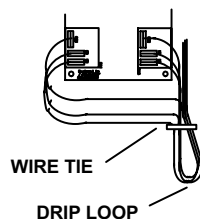
#### Installation

### ⚠ WARNING

**Before attempting to perform any service or maintenance, turn the electrical power OFF to unit at disconnect switch(es). Turn off gas supply to unit at main manual shut-off valve.**

### ⚠ WARNING

**Bundle all wires connected to control relays in such a way that drip loops are created. Drip loops will direct moisture away from control.**



- 1 - Set the TSG1-3 thermostat selection jumpers for the desired thermostat and operation.
- 2 - Disconnect 2-pin and 6-pin jacks from existing TSG1-1 control. Remove and discard control.
- 3 - Snap replacement TSG1-3 control in place.

- 4 - Connect 2-pin and 6-pin jacks to replacement TSG1-3.
- 5 - Remove 3-pin combustion air inducer plug from jack in blower deck.
- 6 - Insert replacement harness 3-pin plug into blower deck jack. Make the following connections from the jack to the replacement two-stage control:
  - a - Connect red harness wire to K11-NC terminal on TSG1-3 control.
  - b - Connect black harness wire to K11-NO terminal on TSG1-3 control.
  - c - Connect white harness wire to LINE-NEUTRAL terminal on SureLight control board.
- 7 - Connect 8" black wire quick connect terminal to K11-C terminal on TSG1-3 control. Splice stripped end to the wire from pin 4 of P156 plug.
- 8 - Connect remaining wires as detailed below:

#### G32Q/GHR32Q

- a - Brown 24" combination wire -- Connect first single wire quick connect end to ACB LOW terminal on SureLight control board. Connect other quick connect terminal to terminal 2 of TB25 terminal strip on side of control box. Connect double wire quick connect terminal to K13-NC terminal on TSG1-3.  
*NOTE - Some early models do not include the TB25 terminal strip. Cut 1/4" quick connect terminal from one end of the brown wire. Strip the wire and splice it to the low fire heat/continuous fan speed wire from the indoor blower.*
- b - Connect red wire from K13-Common terminal on TSG1-3 to ACB HEAT terminal on SureLight control board.
- c - Connect red wire from K13-NO terminal on TSG1-3 to terminal 1 on TB25 terminal strip.

*NOTE - Some early models do not include the TB25 terminal strip. Cut 1/4" quick connect terminal from one end of the red wire. Strip the wire and splice it to the high fire heat speed wire from the indoor blower.*

#### G32V/GHR32V

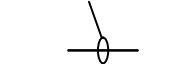
Discard remaining wires. They are not required in V applications.

- 9 - Cut white wire from J156 jack position 6. Leave enough length so that wire can be taped or wire nutted separately.
- 10 - **Q models only** -- Verify correct indoor blower motor connections.
- 11 - Carefully select appropriate wiring diagram sticker and apply sticker over existing unit wiring diagram.

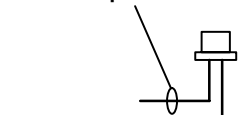


## FIELD WIRING CONNECTIONS

WHITE WIRE  
FROM P156 PIN  
POSITION 6  
(Cut and tape)



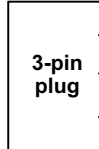
To P156  
pin 4



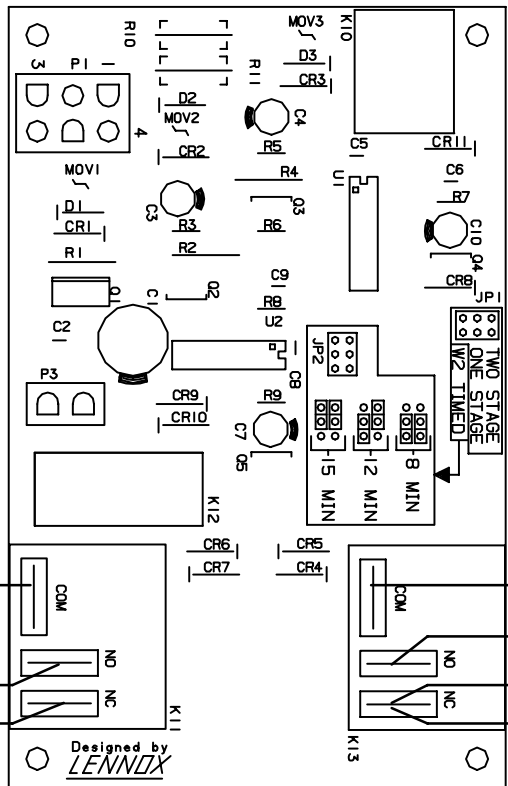
BLACK

BLACK

RED



WHITE WIRE  
(To SureLight N terminal)



**WARNING** - Bundle all wires connected to control relays in such a way that drip loops are created. Drip loops will direct moisture away from control.

**IMPORTANT!**  
*K13 relay used in G32Q and GHR32Q applications ONLY.*

RED WIRE  
(To SureLight ACB Heat terminal)

RED WIRE  
(To TB25 terminal 1)

BROWN WIRE  
(To TB25 terminal 2)

BROWN WIRE  
(To SureLight ACB Low terminal)