

PACKAGED UNITS KITS AND ACCESSORIES

506410-03
10/2021
Supersedes 506410-02

COLD WEATHER KIT

INSTALLATION INSTRUCTIONS FOR COLD WEATHER KIT USED ON LGH/KG 092-150 & LG/KG 156-300 GAS PACKAGED UNITS

⚠ 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 licensed professional HVAC installer or equivalent, service agency, or the gas supplier

Shipping and Packing List

13X63, 13X64, 13X65 - Package 1 of 1 contains:

- 1- Heater assembly
- 2- Wire harnesses:
 - 1-604954-01 (LGH units)
 - 1-604956-01 (KG units)

Bag assembly containing:

- 1-Relay
- 9-#8 Screws
- 1-Wire tie

22H58, 22H59, 22V43 - Package 1 of 1 contains:

- 2- Heater assemblies
- 5- Wire harnesses
 - 1-106051-01 (LGH units)
 - 1-604785-01 (KG Units- std. SCCR)
 - 2-106128 HR6 power harnesses (KG)
 - 1-105722-01 (LGH units - higher SCCR)
 - 1-106648 (LGM units)

Bag assembly containing:

- 2-Relays
- 18-Thread forming screws
- 24-Wire ties

⚠ CAUTION

As with any mechanical equipment, contact with sharp sheet metal edges can result in personal injury. Take care while handling this equipment and wear gloves and protective clothing.

Application

The cold weather kit heats the gas heat compartment to allow gas valve operation during low outdoor temperatures. See table 1 for usage.

TABLE 1

Unit	Unit Voltage	Part No.	Cat. No.
092-152	Y	613930-01	13X63
092-152	G, M	613930-02	13X64
092-152	J	613930-03	13X65
156-300(S)	Y	613930-10	22H58
156-300(S)	G, M	613930-11	22H59
156-300(S)	J	613930-12	22V43

Installation - LGH092-150 Units

- 1- Disconnect all power to unit and open heat access panel.
- 2- Locate the kit harness labeled 604954-01 kit harness. Remove cold weather kit cover and connect wires labeled HR6 to the cold weather assembly. See figure 1. Replace cold weather kit cover. Discard harness labeled 604956-01 provided in kit
- 3- Install heater assembly in heat section as shown in figure 2. Use existing screws.
- 4- Route the remaining harness wires as shown in figure 2. Make wire connections as shown in figure 1.
- 5- Open control access panel and install K125 as shown in figure 3. Secure with #8 screws provided in kit.
- 6- Locate existing wires in control box and connect to K125 as shown in figure 3 for standard SCCR units and figure 4 for high SCCR units.



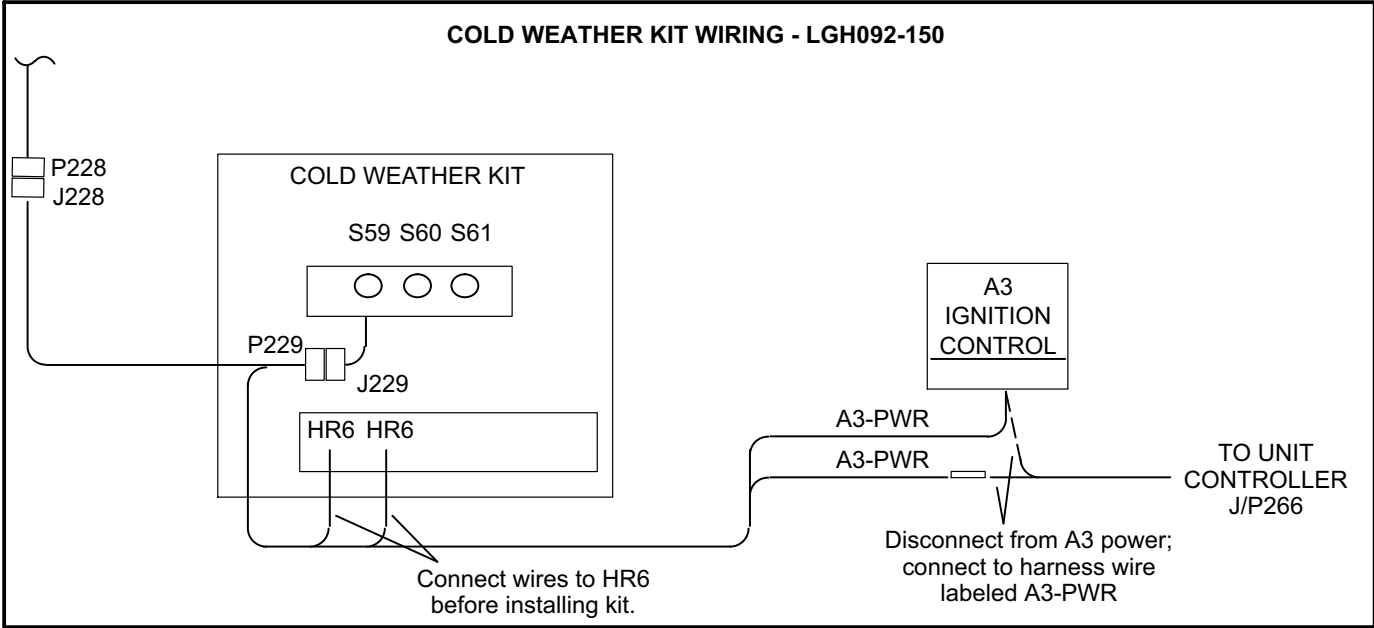


FIGURE 1

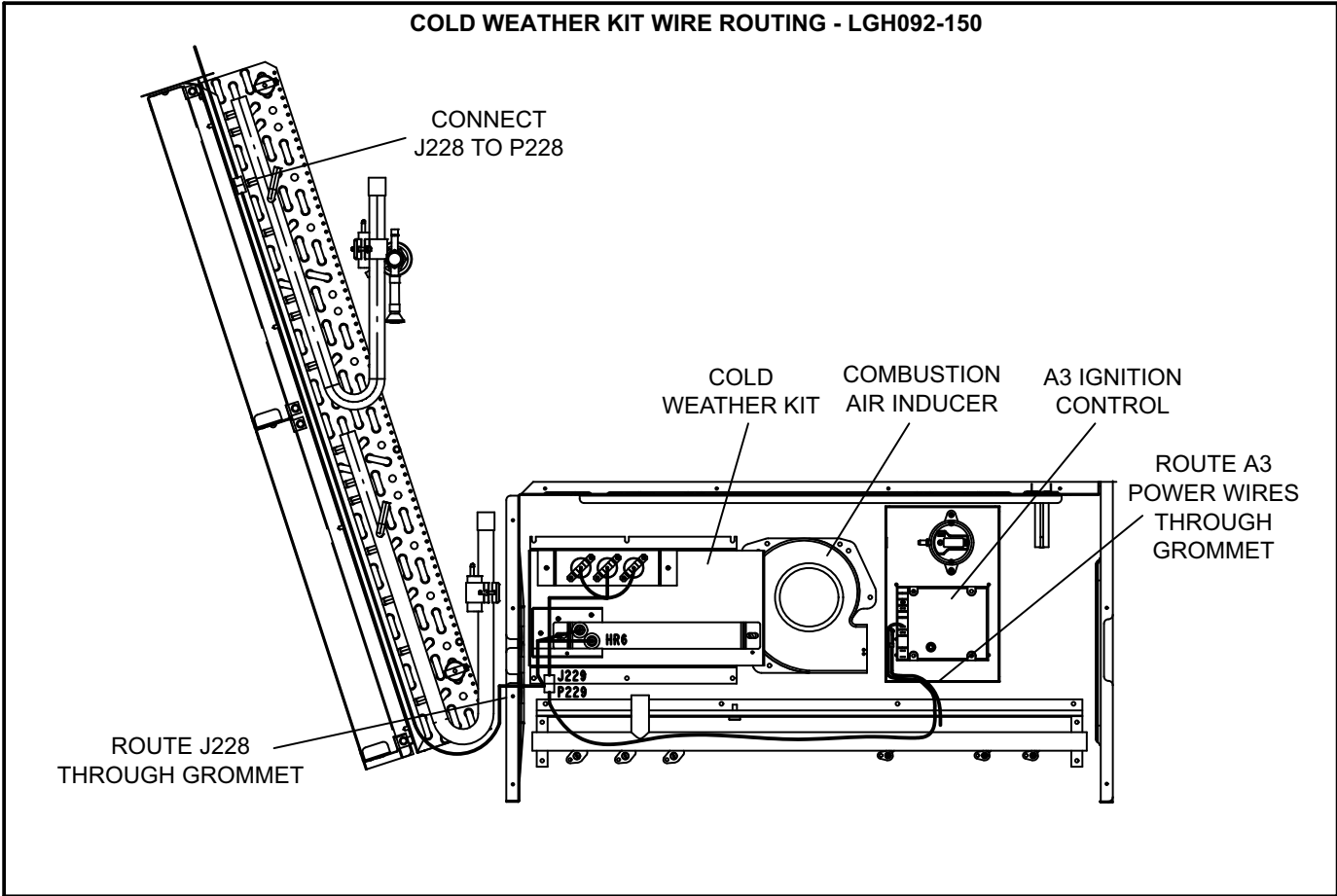
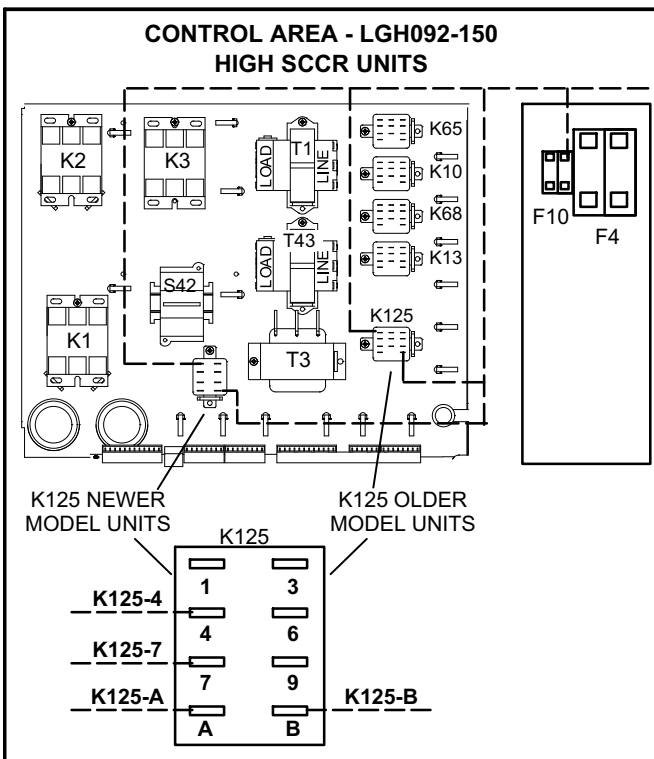
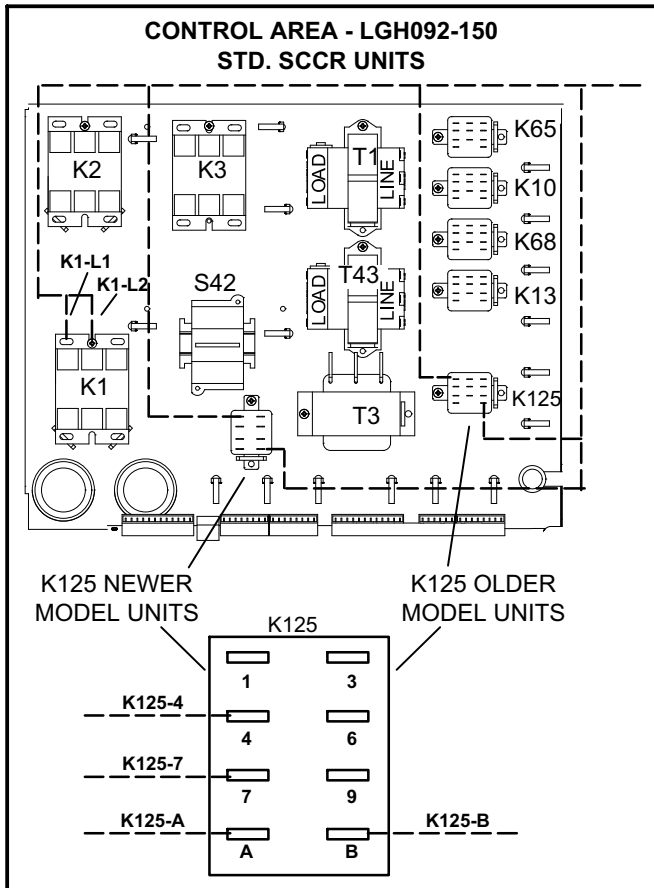
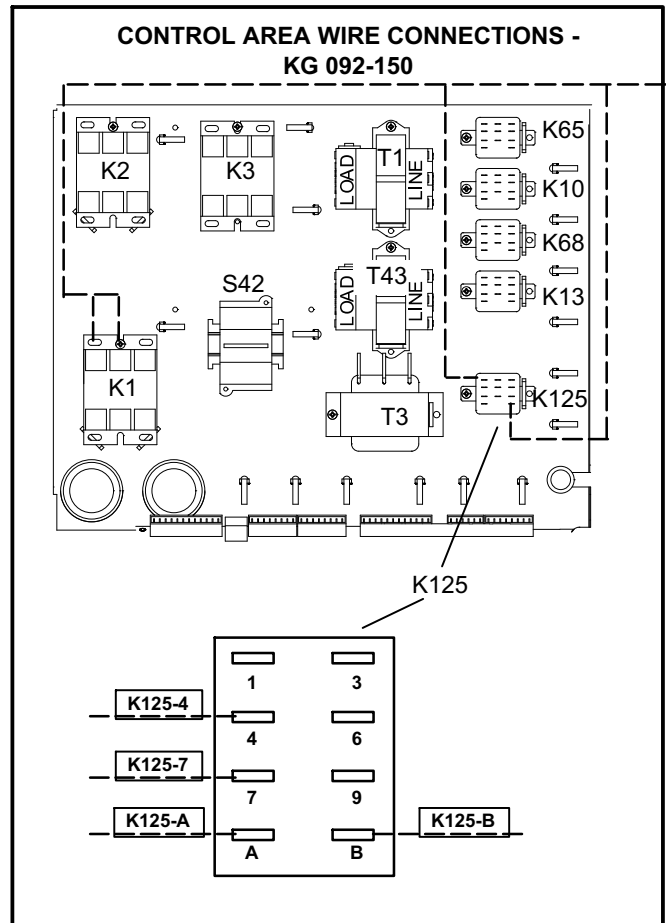


FIGURE 2



Installation - KG 092-150 Units

- 1- Disconnect all power to unit and open heat access panel.
- 2- Remove six screws that are holding the unit top to the compressor area corner mullion.
- 3- Locate the kit harness labeled 604956-01 and identify six wires labeled K1-L1, K1-L2, K125-4, K125-7, K125-A, and K125-B. Route the six wires from the heat section through the side grommet to the control box. See figure 6. Discard harness labeled 604954-01 provided in kit
- 4- Remove cold weather kit cover and connect wires labeled HR6 to the cold weather assembly. See figure 7. Replace cold weather kit cover.
- 5- Install heater assembly in heat section as shown in figure 2. Use existing screws.
- 6- Open control access panel and install K125 as shown in figure 3. Secure with #8 screws provided in kit.
- 7- Make wire connections in the control box as shown in figure 5 and in the heat section as shown in figure 7.
- 8- Replace top panel and secure in place.



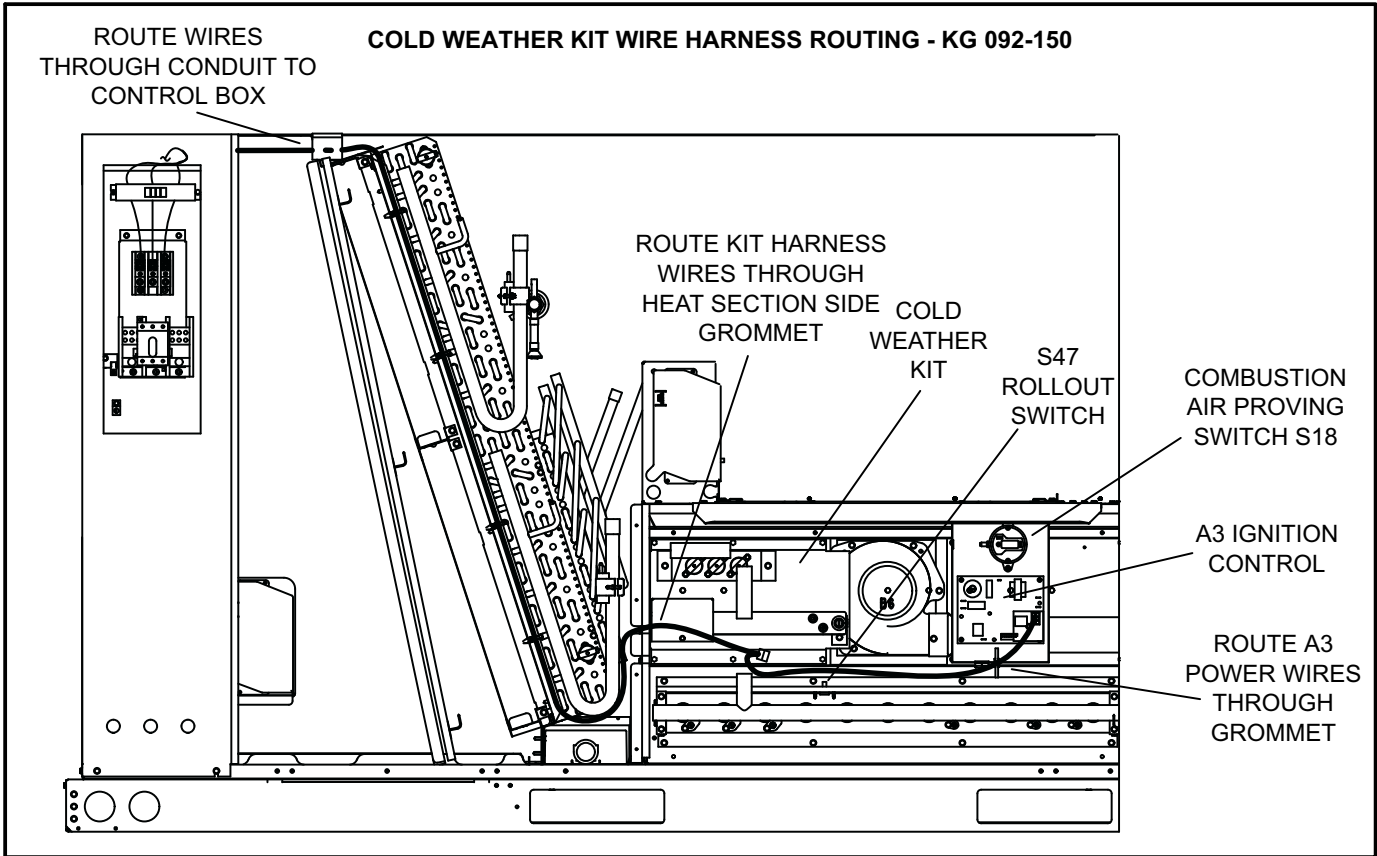


FIGURE 6

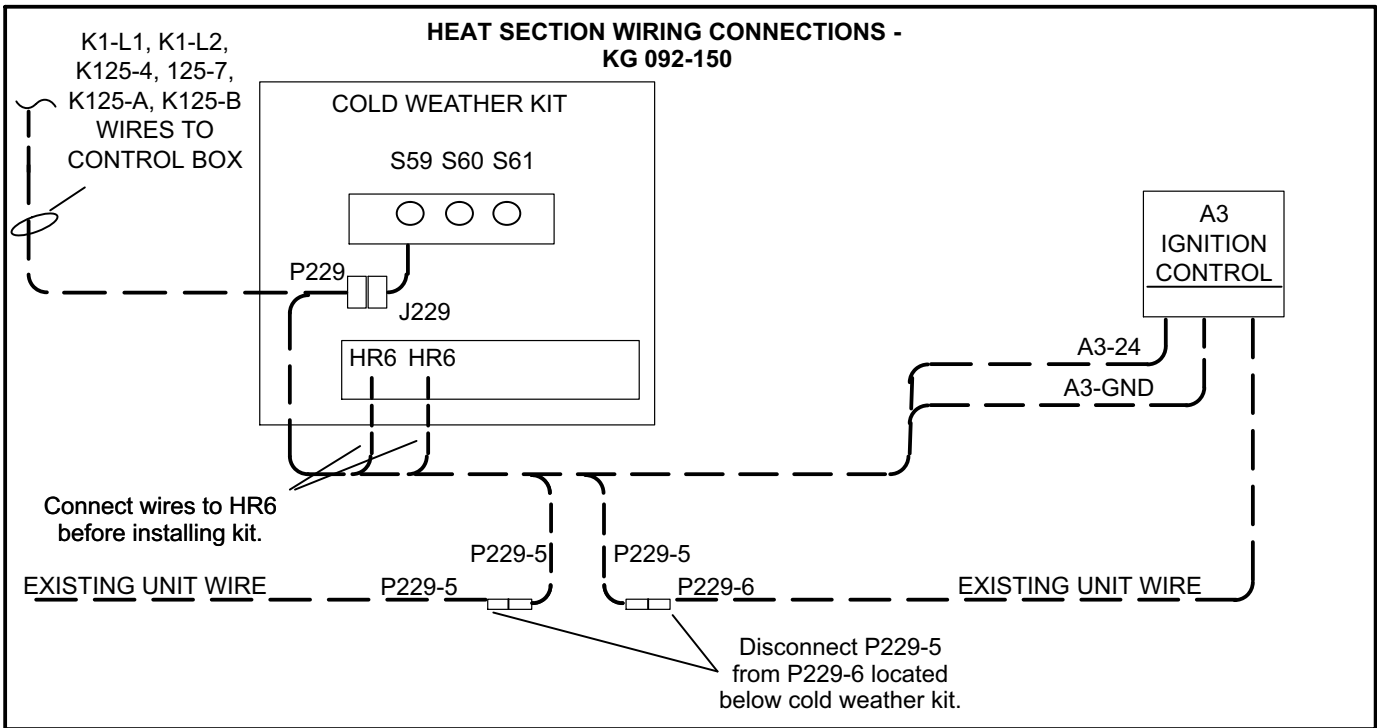


FIGURE 7

Installation - LGH156-300 Units

- 1- Disconnect all power to unit and open heat access panel.
- 2- Install both cold weather assemblies as shown in figure 8. Use existing screws.
- 3- Install both K125 relays in control area above compressors. Secure with #8 screws. See figure 9.

- 4- Locate harness labeled 106051-01 for standard SCCR units or 105722-01 for high SCCR units. Route as shown in figure 9. Secure with wire ties. Discard unused harnesses.
- 5- Make wire connections as shown in figure 10.
- 6- Use wire ties to securely route and tie harness away from gas heat manifold.

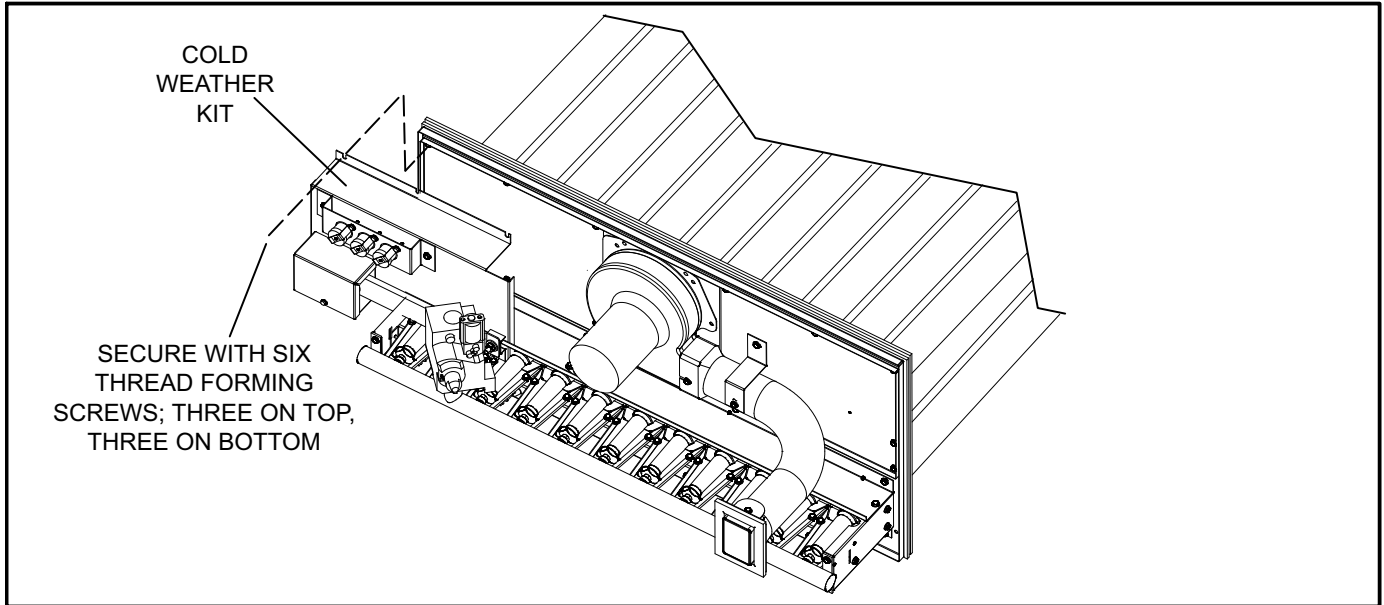


FIGURE 8

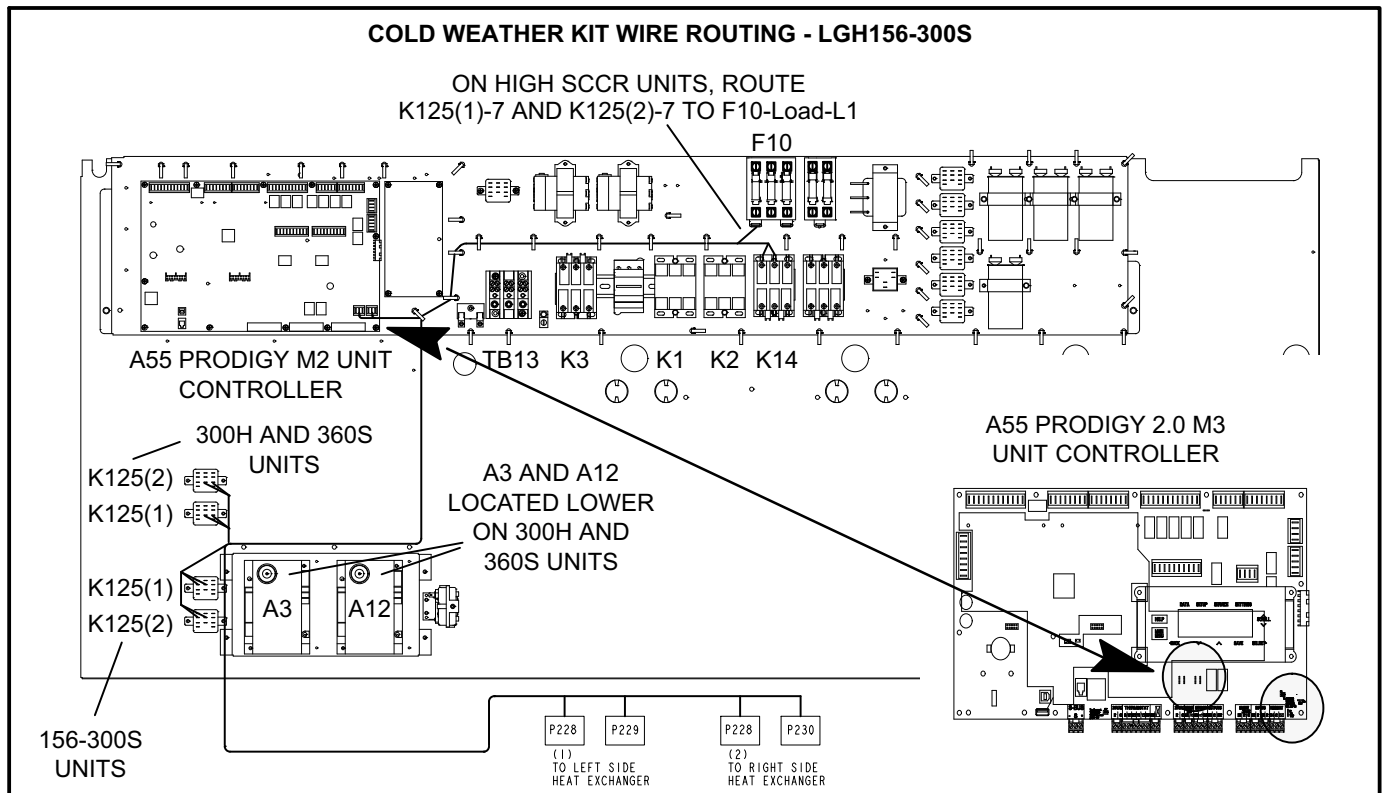


FIGURE 9

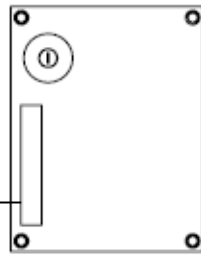
COLD WEATHER KIT WIRING - LGH156-360

A55 - PRODIGY 2.0
M3 UNIT CONTROLLER

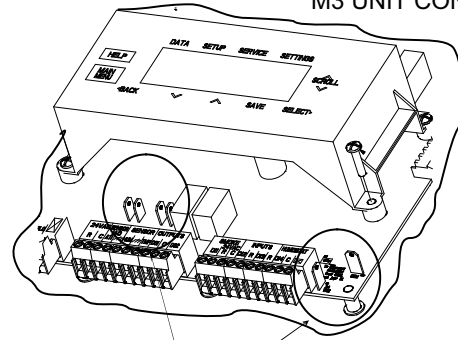
DISCONNECT WIRES
FROM IGNITION BOARD
A3 AND A12

--- KIT HARNESS

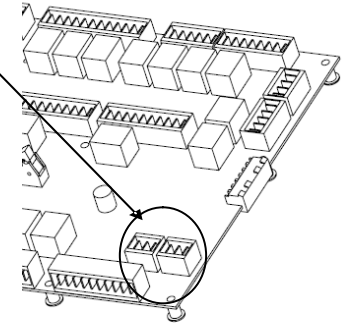
PWR



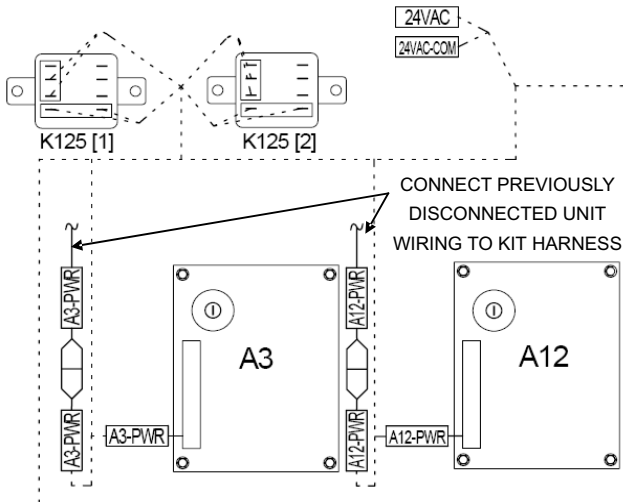
A3/A12



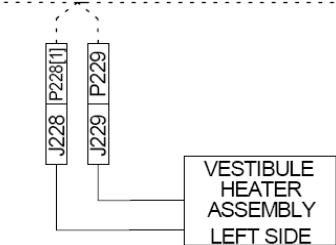
CONNECT TO A55
UNIT CONTROLLER



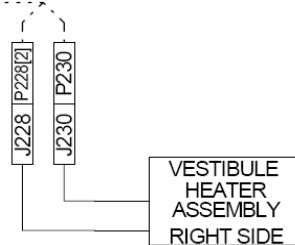
A55 - PRODIGY
M2 UNIT CONTROLLER



CONNECT PREVIOUSLY
DISCONNECTED UNIT
WIRING TO KIT HARNESS



VESTIBULE
HEATER
ASSEMBLY
LEFT SIDE



VESTIBULE
HEATER
ASSEMBLY
RIGHT SIDE

FIGURE 10

Installation - KG 156-300 Units

- 1- Disconnect all power to unit and open compressor access panels.
- 2- Install both cold weather assemblies as shown in figure 8. Use existing screws.
- 3- Install both K125 relays in control area above compressors. Secure with #8 screws. See figure 11.
- 4- Locate harness labeled 604785-01 and route as shown in figure 9. Secure with wire ties. Discard unused harnesses.
- 5- Make wire connections as shown in figure 12.
- 6- Use wire ties to securely route and tie harness away from gas heat manifold.

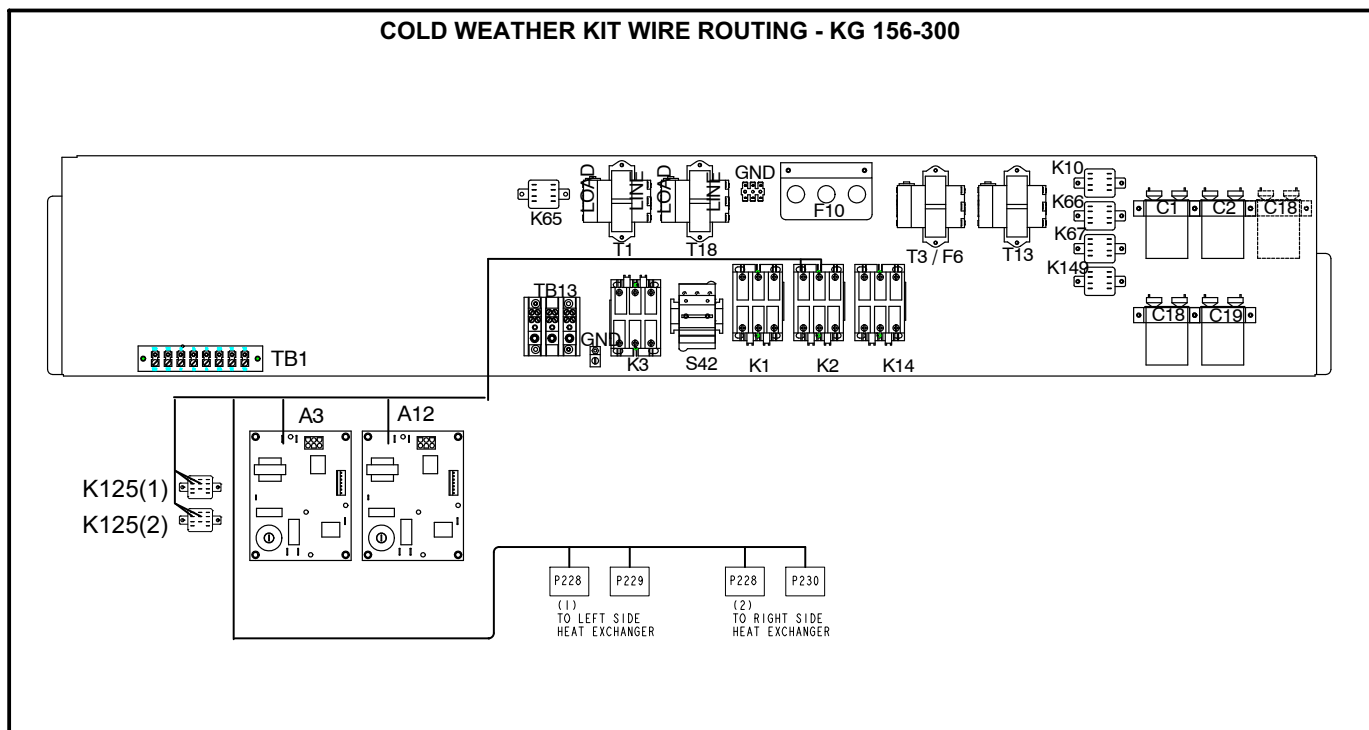
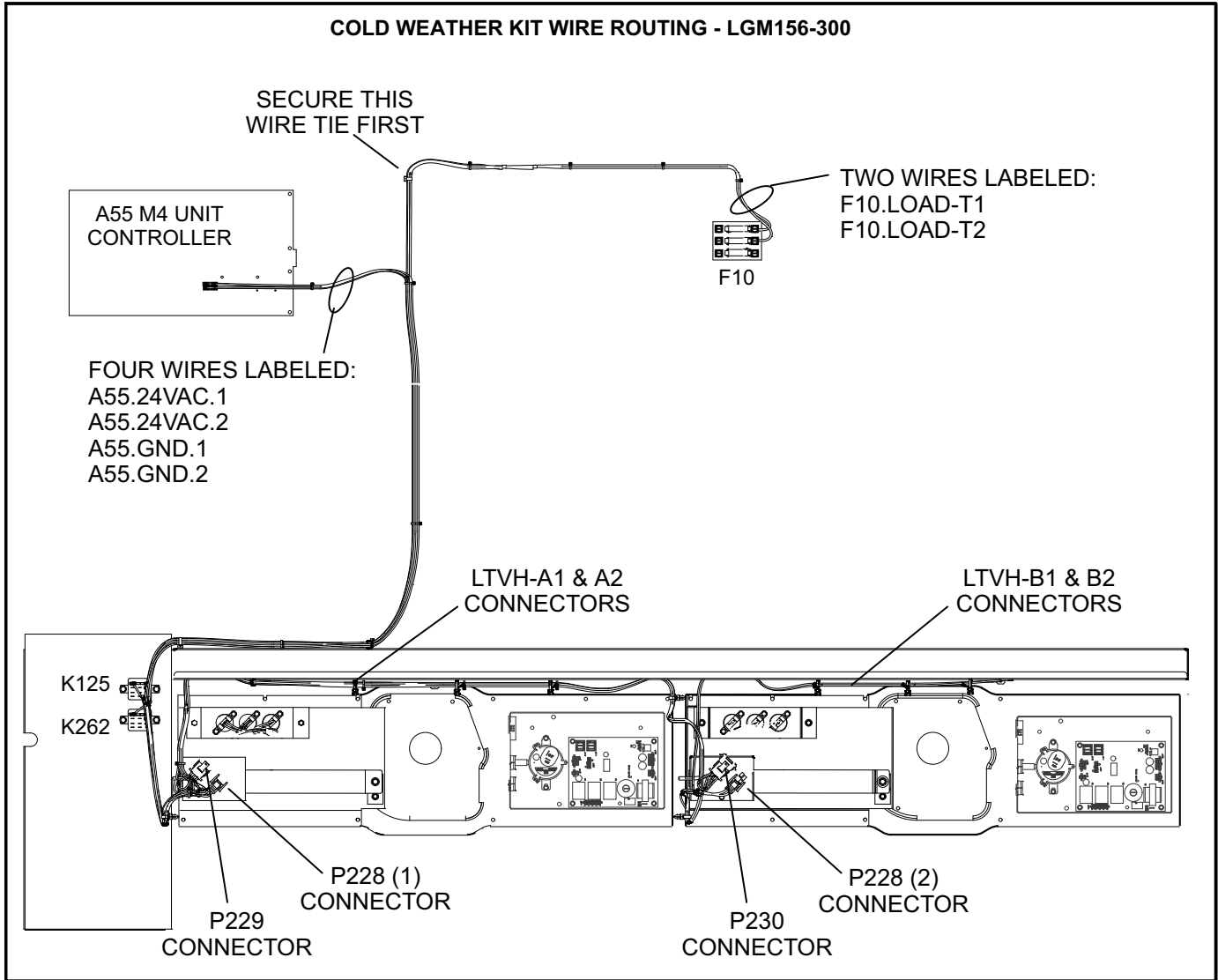


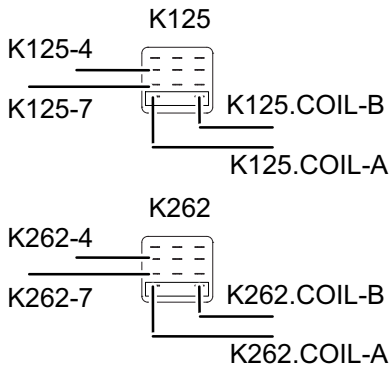
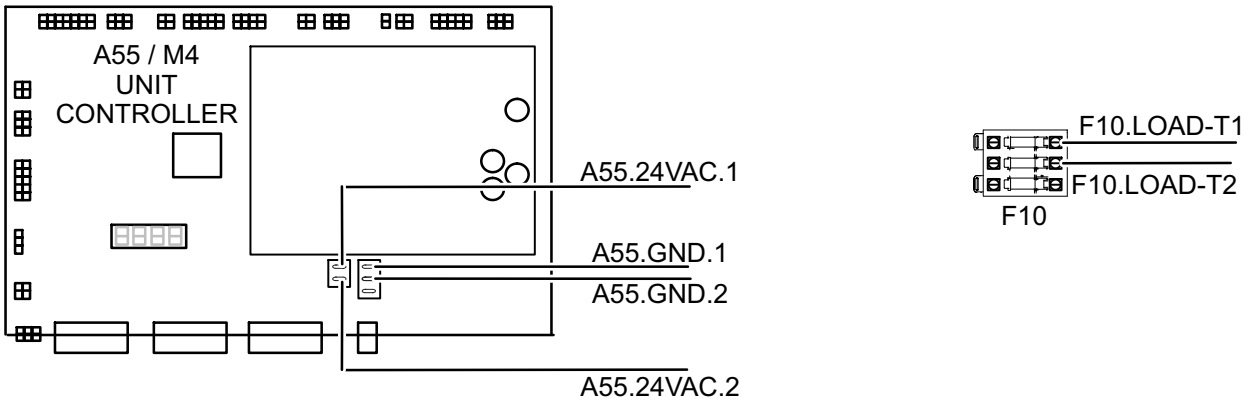
FIGURE 11

Installation - LGM 156-300 Units

- 1- Disconnect all power to unit and open heat access panel.
- 2- Install both cold weather assemblies as shown in figure 8. Use six thread forming screws, provided.
- 3- Install both relays as shown in figure 13. Secure with #8 screws.
- 4- Locate harness labeled 106648-01. Route as shown in figure 13. Secure with wire ties. Discard unused harnesses.
- 5- Make wire connections as shown in figure 14 and 15.
- 6- Use wire ties to securely route and tie harness away from gas heat manifold.



**COLD WEATHER KIT WIRING -
LGM156-300**



See figure 15 to connect control harness leads labeled:
LTVH-A1
LTVH-A2
LTVH-B1
LTVH-B2

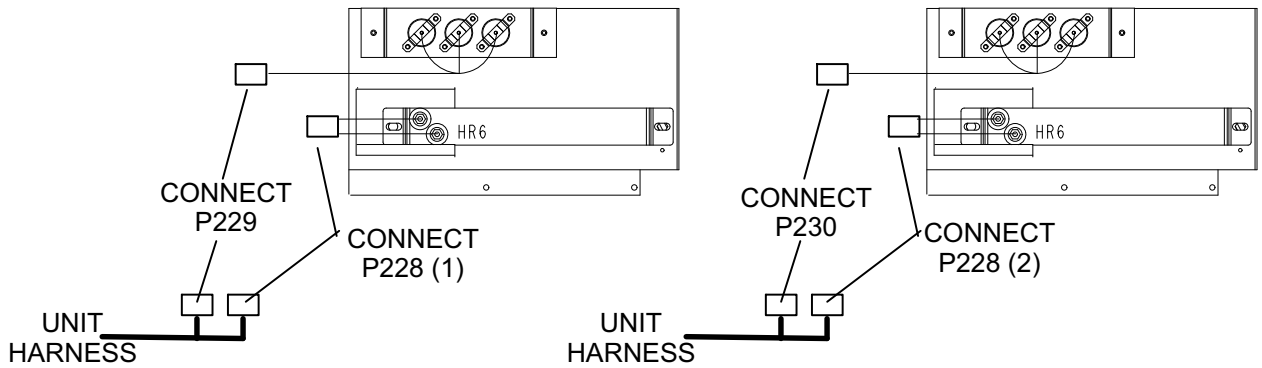


FIGURE 14

COLD WEATHER KIT WIRING - (continued)
LGM156-300

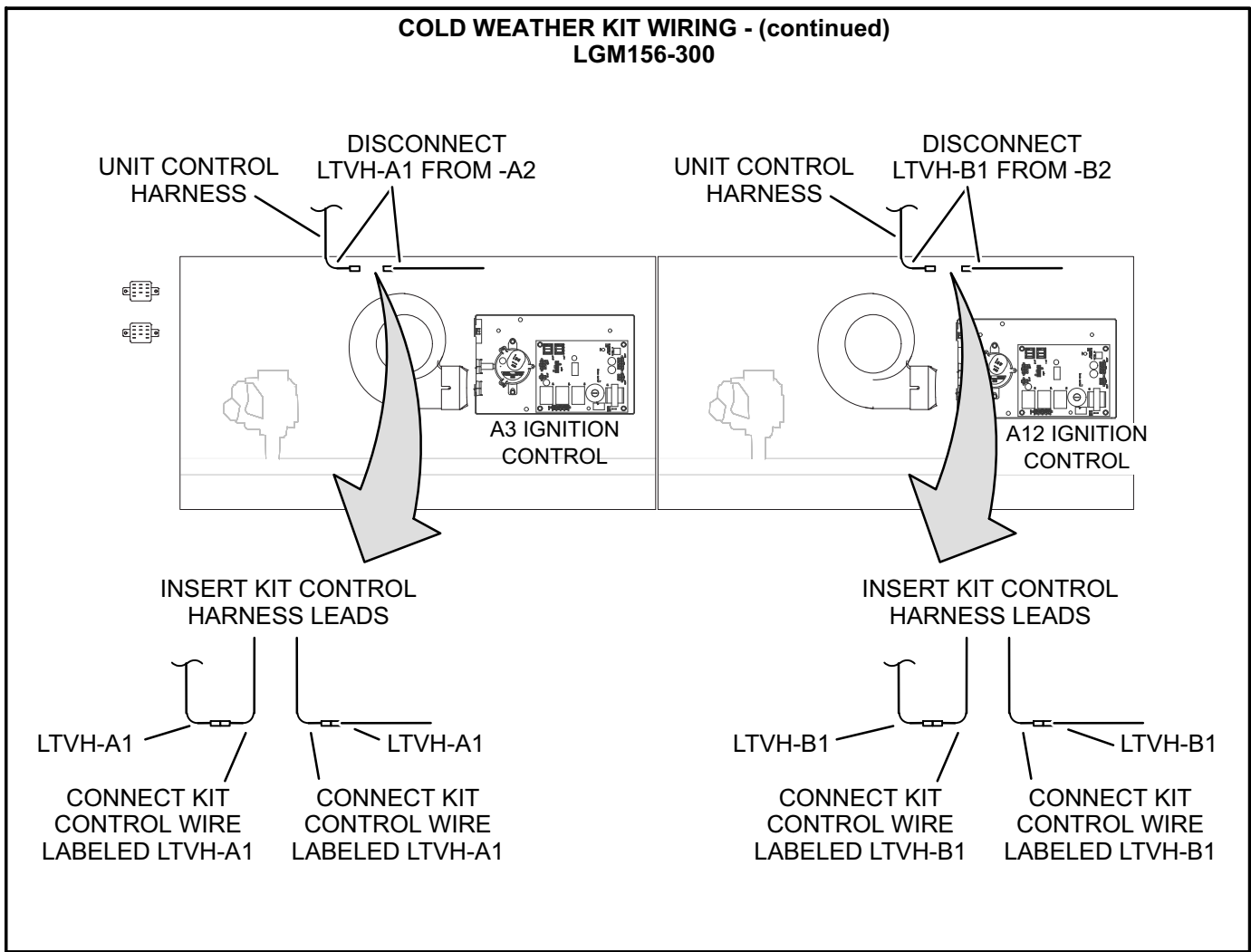


FIGURE 15

Operation

When ambient temperature drops below 20°F (-7°C), S61 closes. When ambient temperature drops below -10°F (-23°C), S60 closes to energize K125 and bring on HR6 heater.

When ambient temperature rises to 20°F (-7°C), S60 opens to de-energize HR6 heater.

When ambient temperature drops below -20°F (-29°C), S59 opens to disable GV1 gas valve. S59 closes to allow heating when temperature rises to 10°F (-12°C).