

PACKAGED UNITS KITS AND ACCESSORIES

508898-01
04/2026

UNIT POWERED GFI KIT

INSTALLATION INSTRUCTIONS FOR UNIT POWERED GFI USED ON SG/SC/SH/SD 036-240 PACKAGED UNITS

Shipping and Packing List

CAT 38096 FOR 460V (G VOLT)

CAT 3**** FOR 575V (J VOLT)

Package 1 of 1 contains:

- 1- Transformer Assembly
 - 1- Transformer
 - 1- Transformer Mounting Plate
 - 1- Transformer Harness
- 1- Disconnect Assembly
 - 1- 30A Disconnect Switch
 - 2- 5A Fuses
 - 1- Fuse Block
 - 1- 15A Fuse
 - 1- Mounting Plate
 - 1- Harness
 - 1- Ground Lug
 - 1- Din Rail
 - 1- Fuse Cover
- 1- Installation Instruction
- 2- #10-32 X 1/2" Screws
- 4- #10-16 X 5/8" Screws
- 5- Convuluted Tubes (6")

⚠ WARNING

To prevent serious injury or death:

1. Lock-out/tag-out before performing maintenance.
2. If system power is required (e.g., smoke detector maintenance), disable power to blower, remove fan belt where applicable, and ensure all controllers and thermostats are set to the "OFF" position before performing maintenance.
3. Always keep hands, hair, clothing, jewelry, tools, etc., away from moving parts.

Application

Unit powered GFI is used on SG/SC/SH/SD 036 through 240 units. This transformer is used to power the 20A GFCI.

⚠ 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.

Installation - SG/SC/SH/SD 036-060

A-Turn Off Building Power To Unit

- 1 - TURN OFF the building power to the unit (not just the unit power from the unit circuit breaker at the disconnect box). Open the control access panel.

See FIGURE 1 for 036-060 units.

See FIGURE 2 for 092-120 units.

See FIGURE 3 for 180-240 units.

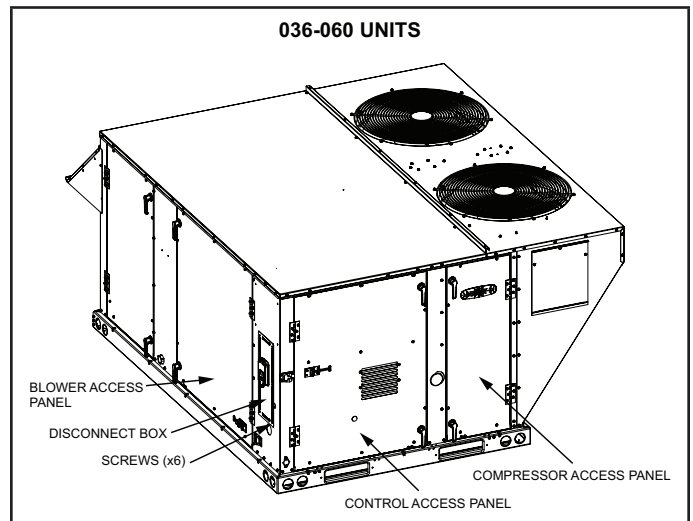


FIGURE 1



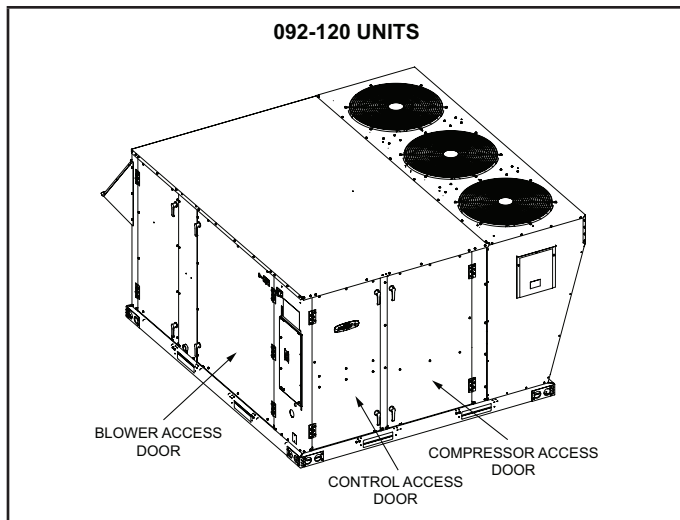


FIGURE 2

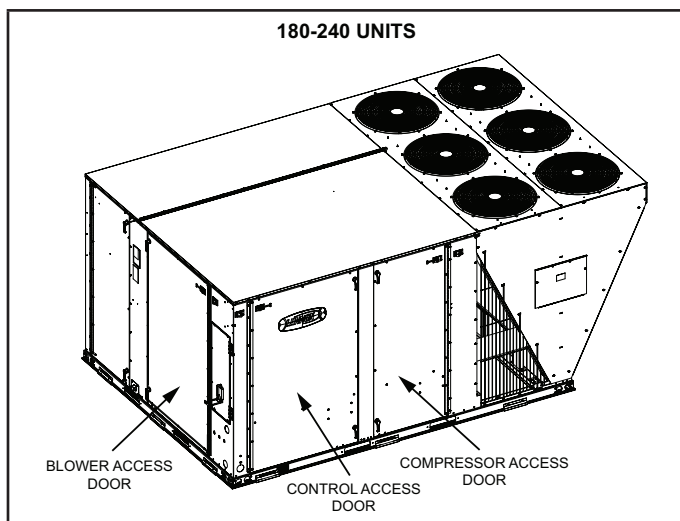


FIGURE 3

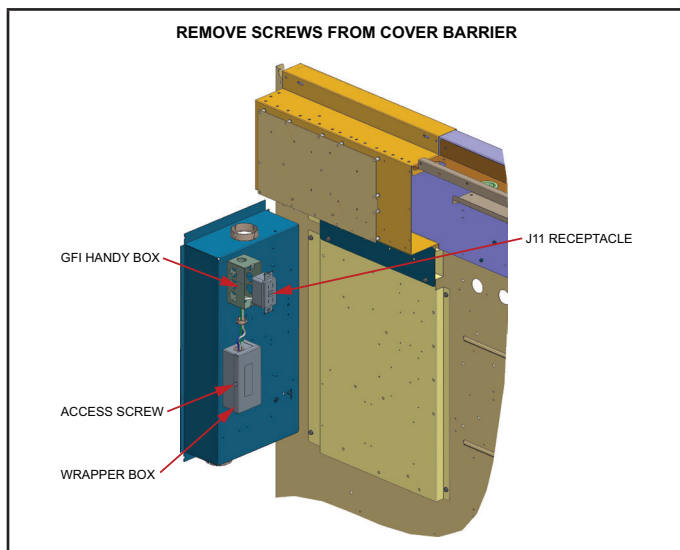


FIGURE 4

B-Remove Components

1-Wrapper Box

- 1 - Open the control access panel to access behind the disconnect box. Locate the wrapper box and remove the screws from the cover barrier as shown in FIGURE 4.
- 2 - Locate terminal block TB39. See FIGURE 5.
- 3 - From the top of TB39, remove the four quick-connect harnesses:
 - i. Blue and white harness from L1
 - ii. White and grey harness from L2
- 4 - Remove the ground wires by loosening the screws on the ground lug.
- 5 - Pull the remaining harnesses out through the top of the wrapper box.
- 6 - Remove the terminal block TB39 - 1 screw.
- 7 - Remove double ground lug - 1 screw.
- 8 - Remove the wrapper box - 3 screws.
- 9 - These components are no longer required and may be safely discarded. See FIGURE 4 & FIGURE 5.

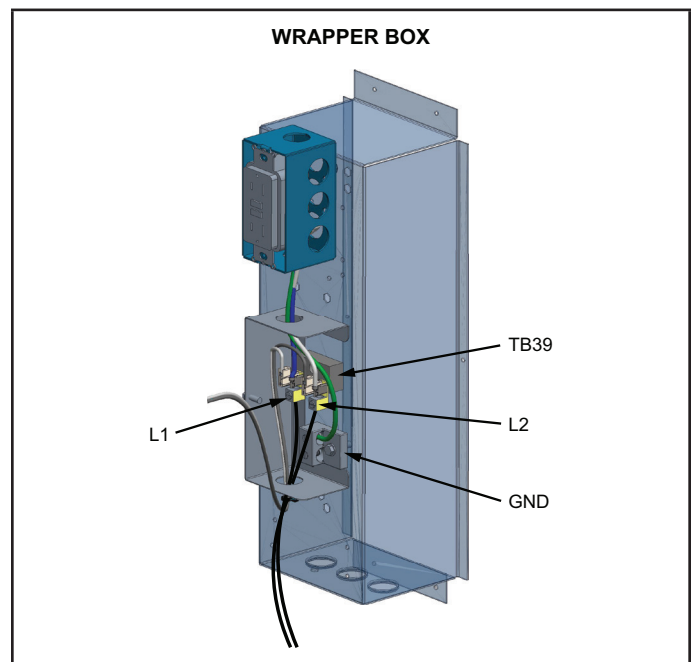


FIGURE 5

2-GFI Handy Box

- 1 - Locate the GFI handy box. See FIGURE 4.
- 2 - Remove the top and bottom screws securing the receptacle.
- 3 - Disconnect the harnesses from the receptacle:
 - i. Blue wire connected to the brass screw
 - ii. White wire connected to the silver screw
- 4 - Remove the ground wire from the ground screw.

3-Transformer T31

- 1 - Locate the T31 transformer on the controls board.

See FIGURE 6 for 036-060 units

See FIGURE 7 for 092-120 units

See FIGURE 8 for 180-240 units

- 2 - Disconnect the grey and white harness that connects TB39 to T31 from the line side of T31 (bottom of the transformer).

- 3 - Remove the T31 transformer and unplug the harness on the load side (top of the transformer) that connects to the P255 plug and P299 plug on the CORE board. Also remove the screw connected to the ground wire.

- 4 - Safely discard both the harness and the T31 transformer

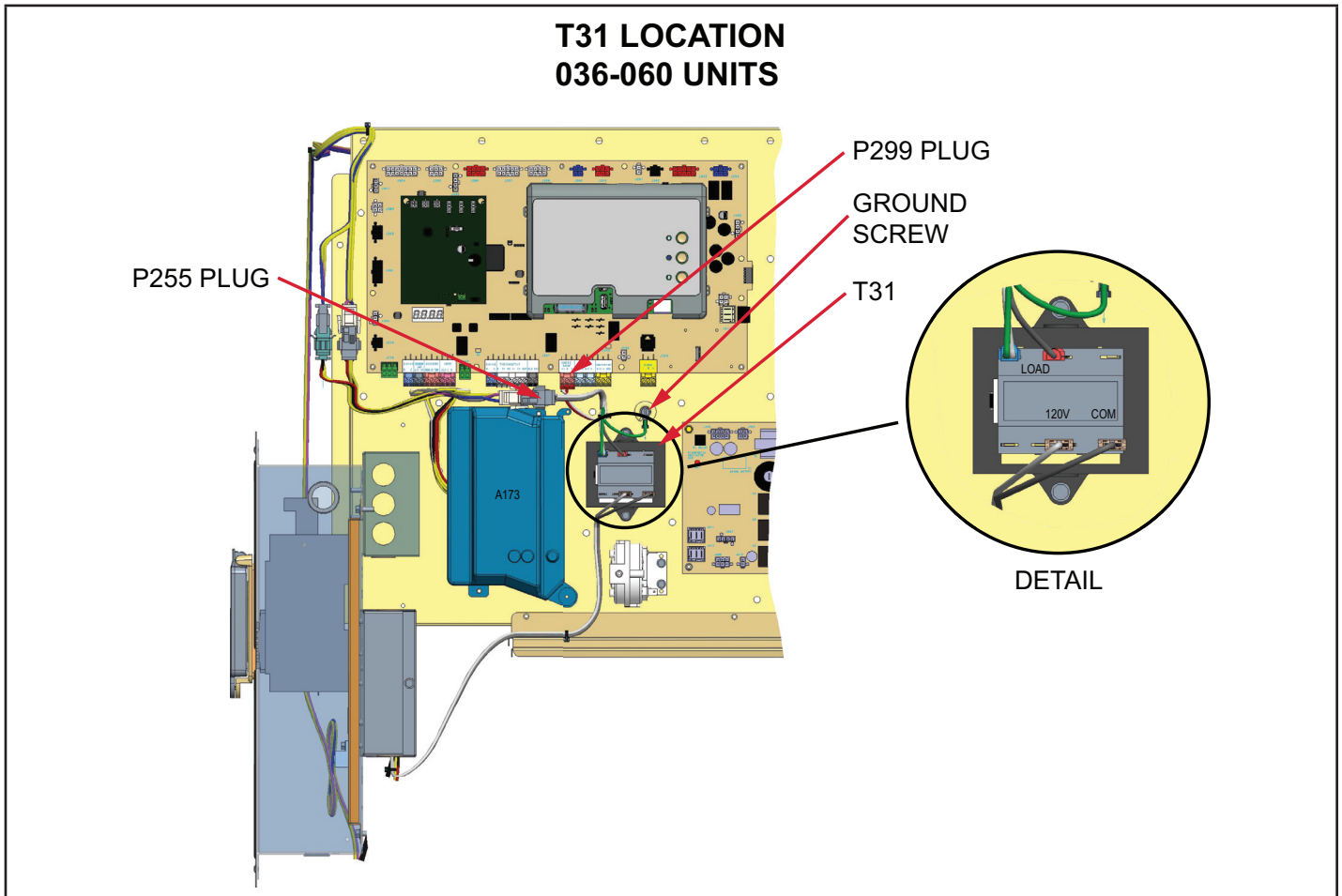


FIGURE 6

**T31 LOCATION
092-120 UNITS**

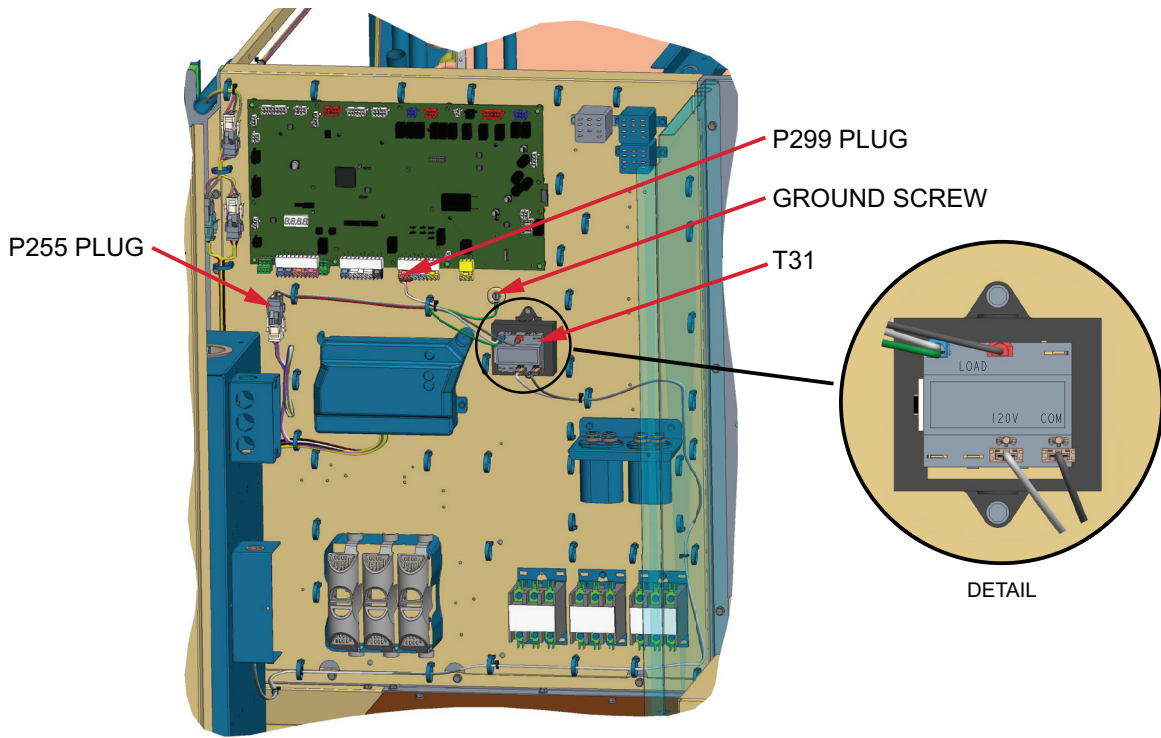


FIGURE 7

**T31 LOCATION
180-240 UNITS**

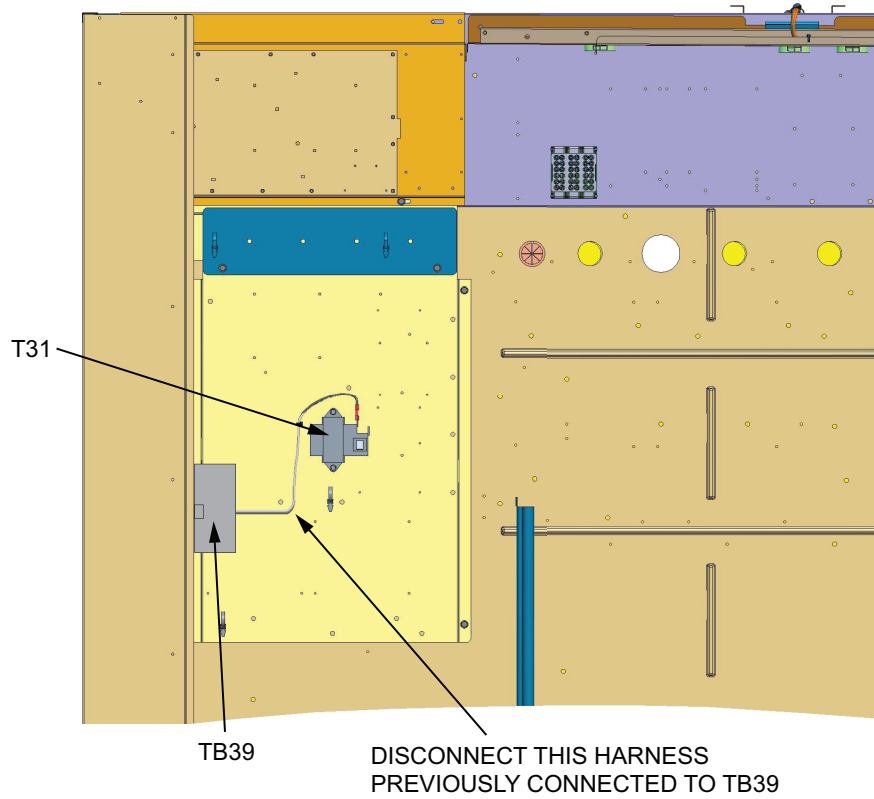


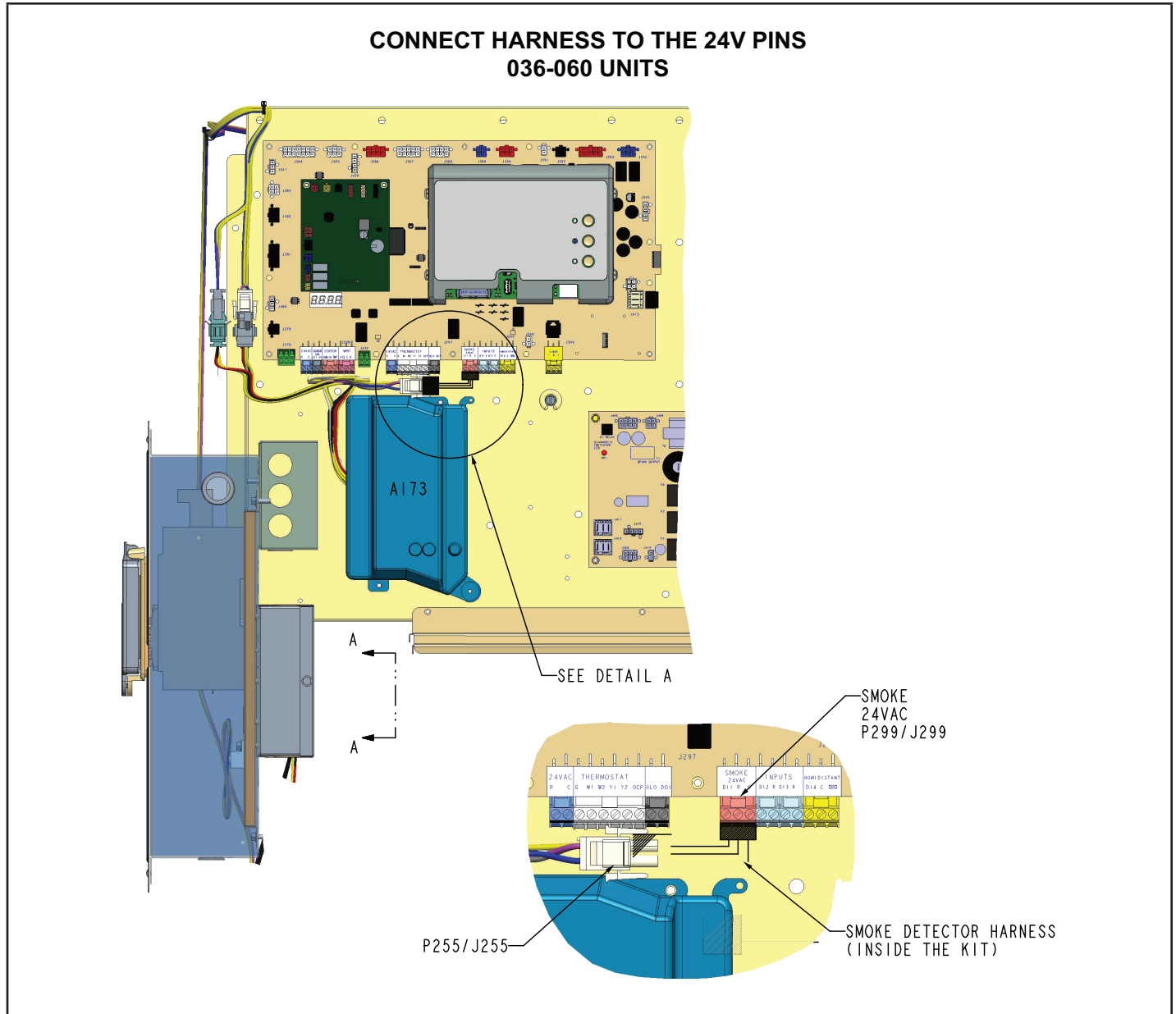
FIGURE 8

C-Reconnect Smoke Detector Harness

NOTE - The smoke detector is powered through the unit electrical supply. When the unit disconnect switch is turned off, power to the smoke detector will also be disabled.

- 1 - Locate the smoke detector harness inside the kit.
- 2 - Connect one end of the harness P255 to J255

- 3 - Connect the other end of harness to the P299 to J299 "SMOKE 24VAC" of the CORE board
- 4 - Bundle and wire tie the excess harness
See FIGURE 9 for 036-060 units.
See FIGURE 10 for 092-120 units.
See FIGURE 11 for 180-240 units.



**CONNECT HARNESS TO THE 24V PINS
092-120 UNITS**

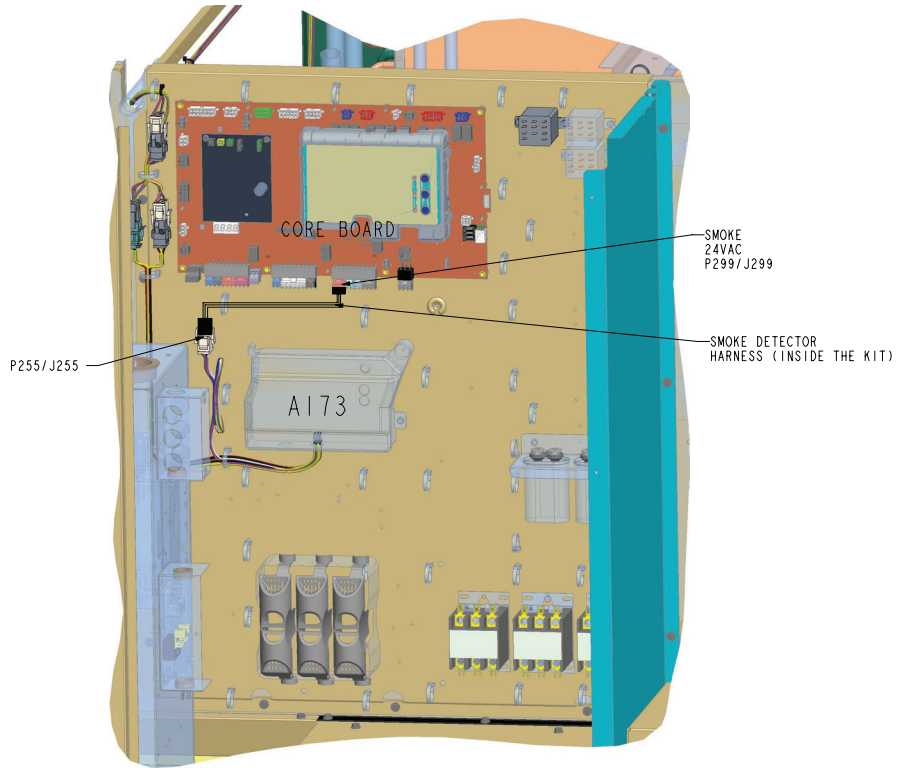


FIGURE 10

**CONNECT HARNESS TO THE 24V PINS
180-240 UNITS**

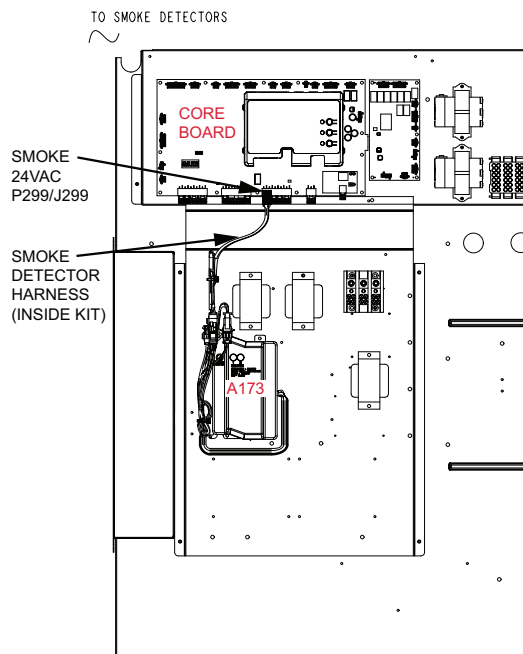


FIGURE 11

D-Install New Components

1-Install Disconnect Switch Sub-Assembly

- 1 - Unscrew the 6 screws from the disconnect box cover panel to access the circuit breaker CB10. See FIGURE 12.
- 2 - Locate the disconnect switch sub-assembly provided in the kit. See FIGURE 13.
- 3 - Secure the assembly to the disconnect box using two #10 32 screws.
- 4 - Locate the pink and blue harness coming from Disconnect switch S117 and route the blue and pink harnesses through the bottom opening of the disconnect box toward circuit breaker CB10.
- 5 - Connect the harness to the L1 and L2 quick-connect tabs on the bottom (line side) of CB10. See FIGURE 13.
- 6 - Locate the grey wire attached to the fuse block:
 - i. Route it through the bottom opening of the receptacle handy box.
 - ii. Connect it to the brass screw on the receptacle.
- 7 - Locate the green ground wire attached to the bottom ground lug:
 - i. Route it through the handy box bottom collar.
 - ii. Secure it to the receptacle ground terminal.

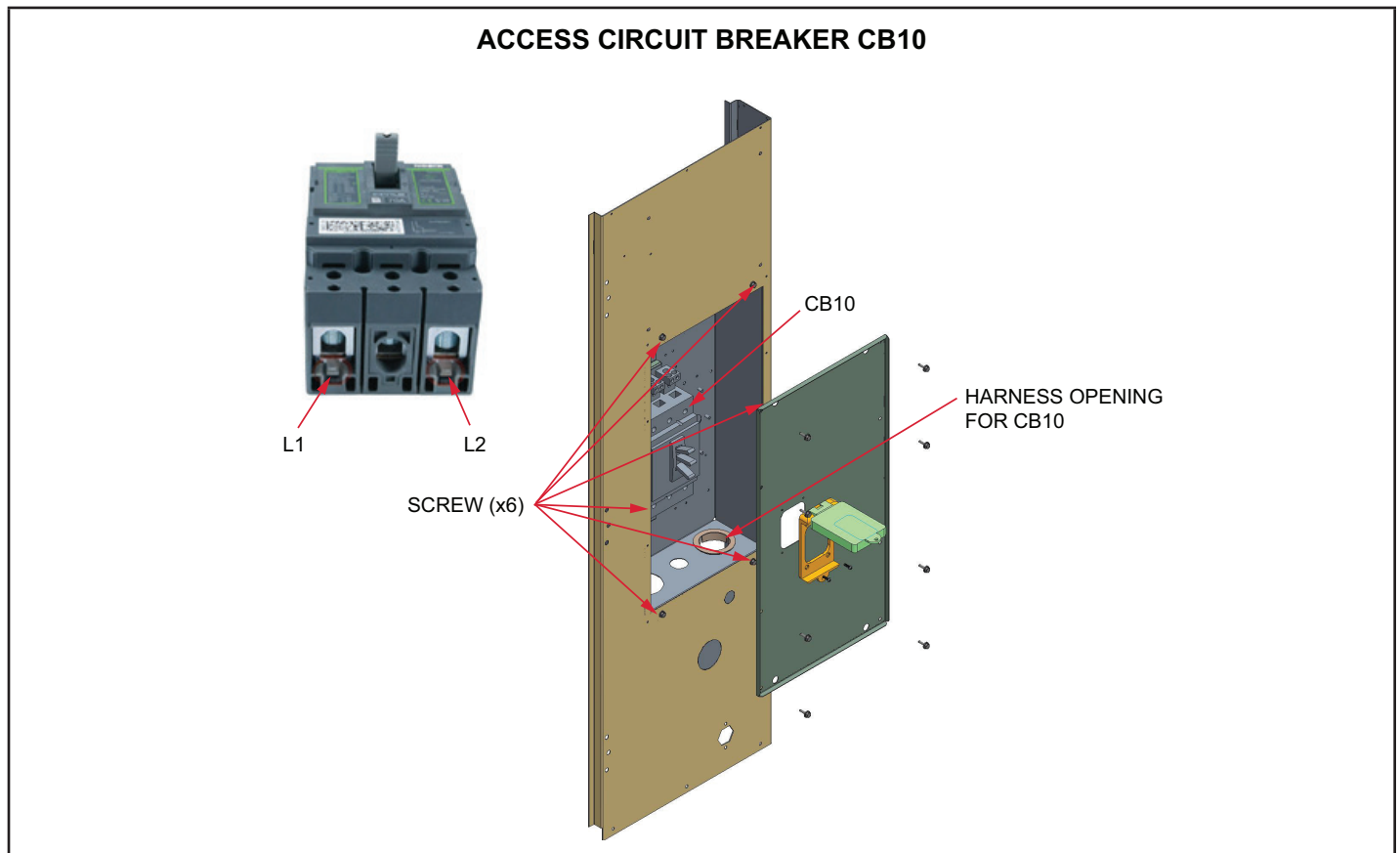


FIGURE 12

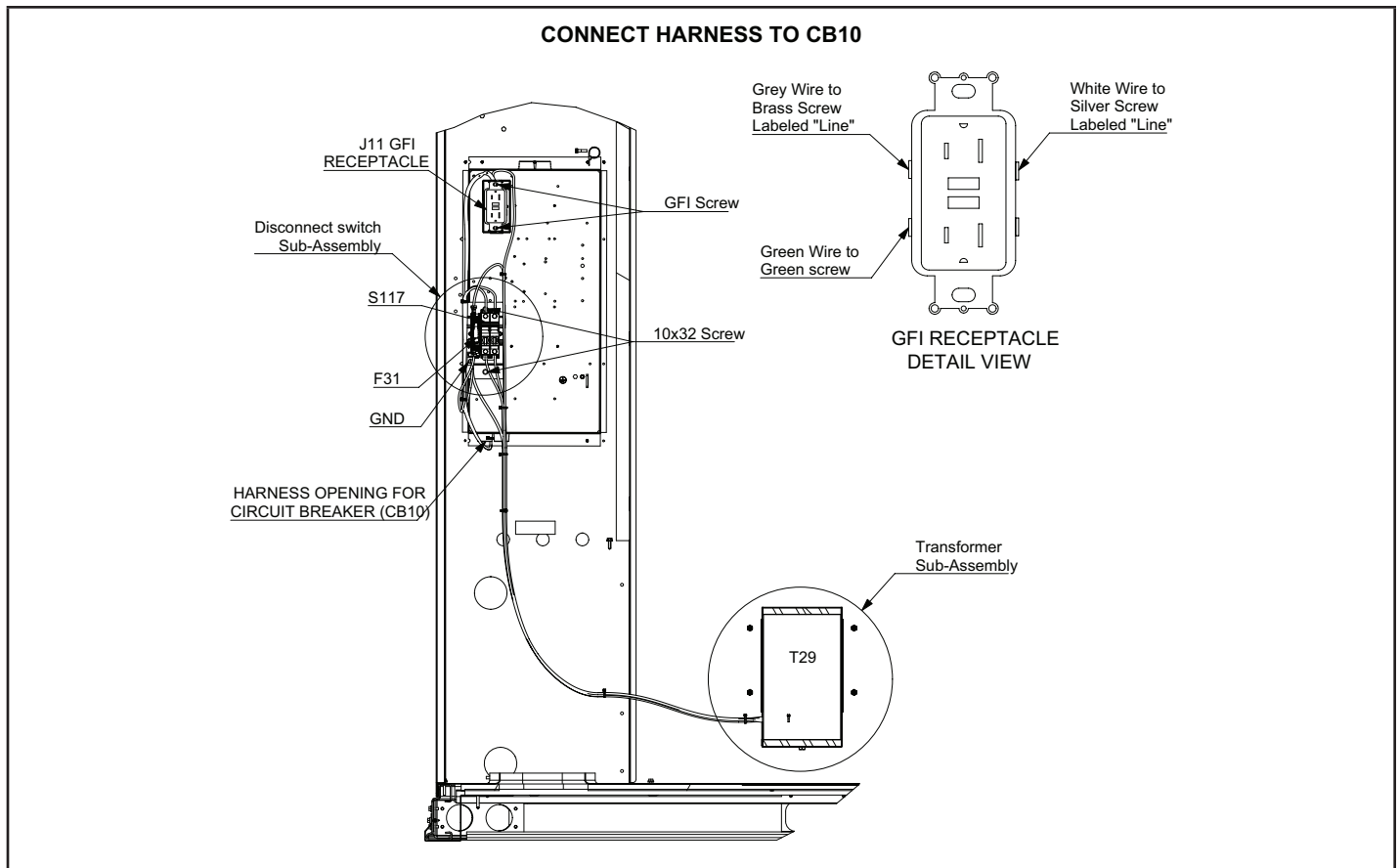


FIGURE 13

2-Install Transformer T29 At Blower Area

- 1 - Open the blower access panel. See FIGURE 1, FIGURE 2, & FIGURE 3.
- 2 - Locate the transformer T29 assembly from the kit. See FIGURE 13.
- 3 - Mount the assembly to the blower support wall using four #10 16 screws.
- 4 - For mounting holes:
 - i. See FIGURE 14 for 036-060 units.
 - ii. See FIGURE 15 for 092-120 units.
 - iii. See FIGURE 16 for 180-240 units.
- 5 - Route the harnesses into the control section through different areas as shown in
 - i. Locate the grommet on the control wall and feed harness through it. See FIGURE 17 for S*H 036-060.
 - ii. Locate the convoluted tubing where the blower power harness is and feed the harness through it. See FIGURE 18 for S*H 092-120
 - iii. Open the control access panel and knock out the top-right hole. Use the convoluted tubing provided in the kit to feed the harness through hole. See FIGURE 19 for S*H 180-240
- 6 - Identify the pink and blue wires from transformer T29 (stamped S117 -T1 and S117-T2) and connect them to the T1 and T2 load-side terminals of disconnect switch S117. See FIGURE 13.
- 7 - Connect the grey wire with quick-connect terminals stamped F31 to the bottom tab of the fuse block. See FIGURE 13
- 8 - Route the white wire stamped J11 from transformer T29 through the handy box bottom collar and connect it to the silver screw on the receptacle. See FIGURE 13.
- 9 - Connect the green ground wire from Transformer T29 to the ground lug on the disconnect switch sub-assembly. See FIGURE 13.

NOTE - Two ground wires will be secured at this ground lug.

**MOUNT THE ASSEMBLY
036-060 UNITS**

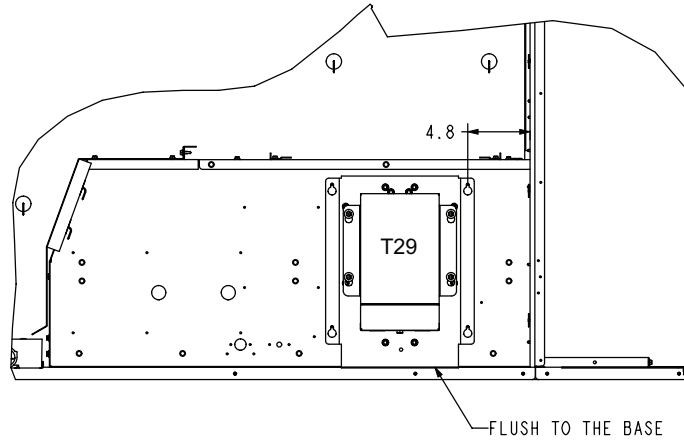


FIGURE 14

**MOUNT THE ASSEMBLY
092-120 UNITS**

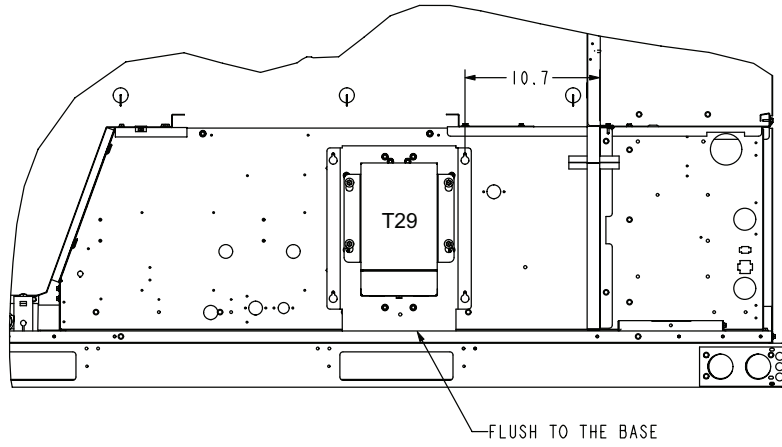


FIGURE 15

**MOUNT THE ASSEMBLY
180-240 UNITS**

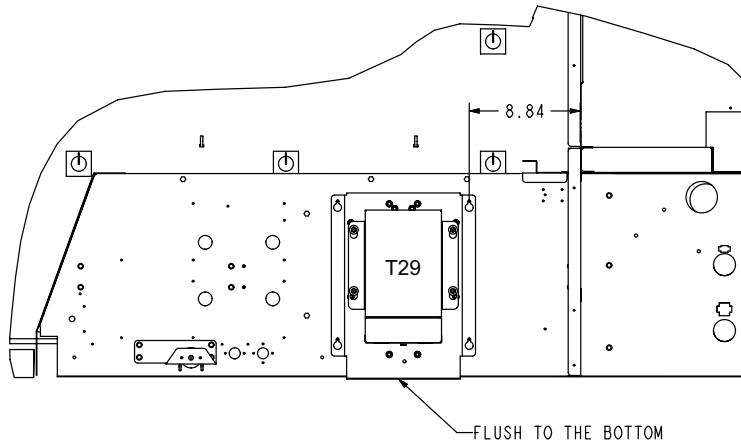


FIGURE 16

**ROUTE HARNESS
036-060 UNITS**

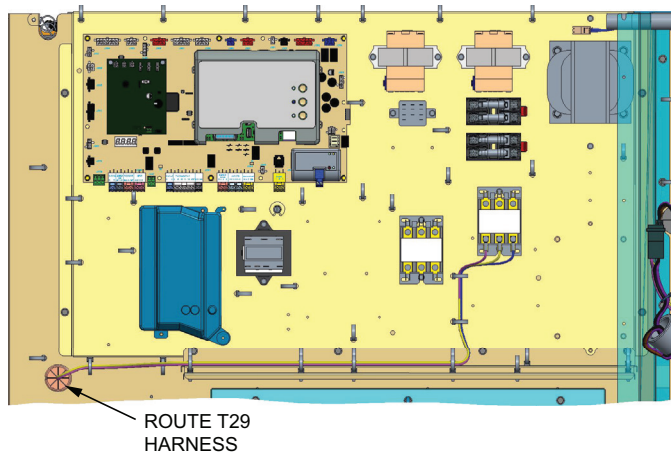


FIGURE 17

**ROUTE HARNESS
092-120 UNITS**

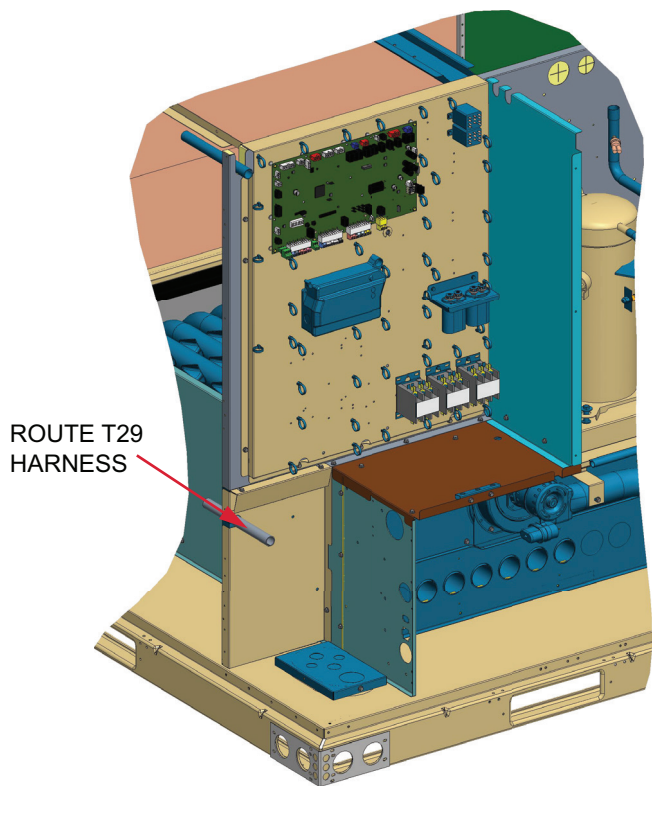


FIGURE 18

**ROUTE HARNESS
180-240 UNITS**

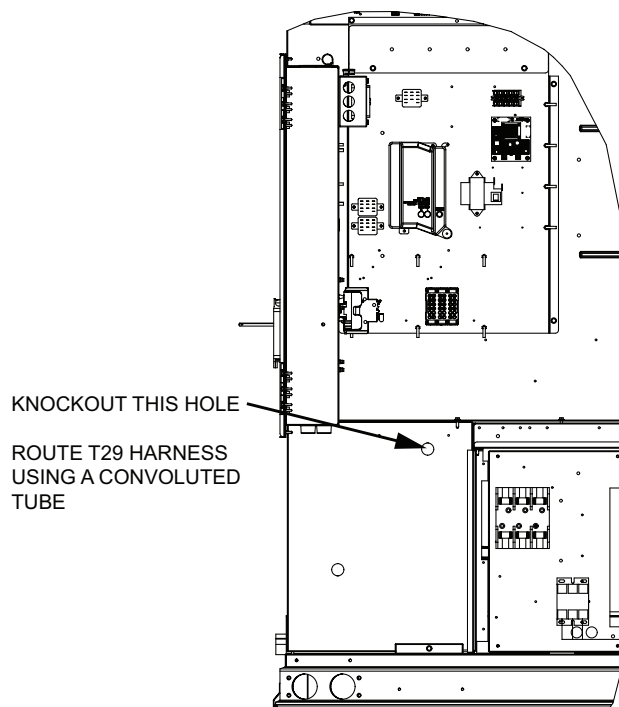


FIGURE 19