

INSTALLATION INSTRUCTIONS

MODELS

EH3PA-A05
EH3PA-A08
EH3PA-A10
EH3PA-A15

EH3PA-B09
EH3PA-B12
EH3PA-B15

EH3PA-C09
EH3PA-C12
EH3PA-C15

OPTIONAL ELECTRIC HEAT PACKAGES

FOR USE WITH
2.5 AND 3 TON PACKAGED UNITS

MANUAL 2100-095 REV. F
SUPERSEDES REV. E
FILE VOL. II, TAB 12

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BRYAN, OHIO**

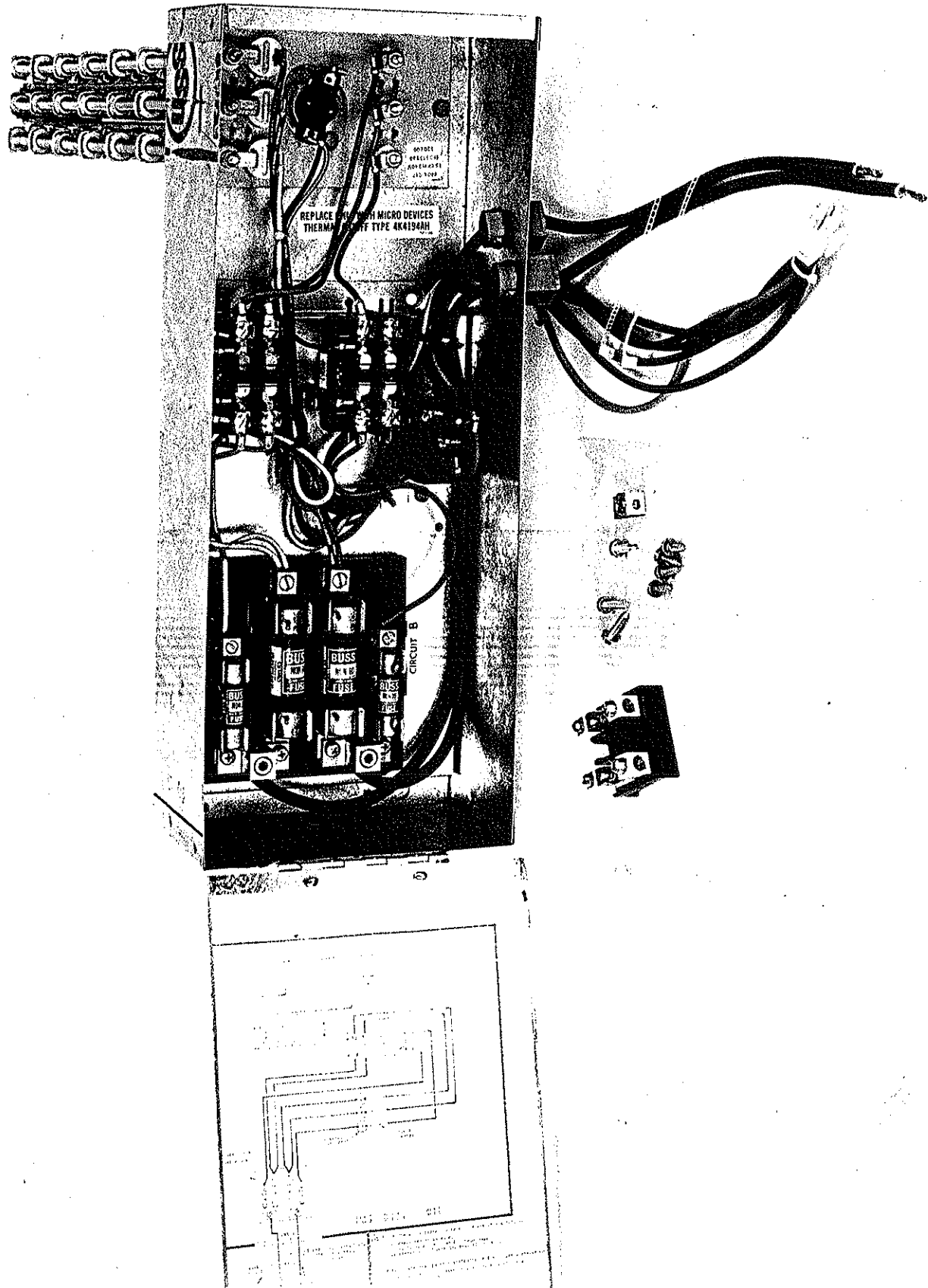


Figure 1

IMPORTANT

The equipment covered in this manual is to be installed by trained, experienced service and installation technicians.

SHIPPING DAMAGE

Upon receipt of equipment, the carton should be checked for external signs of shipping damage. If damage is found, the receiving party must contact the last carrier immediately, preferably in writing, requesting inspection by the carrier's agent.

UNPACKING THE HEAT PACKAGE

Remove the heat package from the shipping carton. The heat package must consist of the following: (See Figure 1)

1. Basic heater enclosure with controls and installation instructions.
2. Plastic bag containing (1) 230V terminal block; (1) grounding lug; (4) #10-16 x 1/2" screws; (2) #8-16 x 1" screws; (1) #10-24 x 1/2" screw; and (1) wire tie.

INSTALLATION

Disconnect all power supplies to the air conditioner or heat pump. Remove the control panel service door. Remove the four (4) #10-16 x 1/2" screws which secure the electric heat cover plate. Remove the electric heat cover plate from the blower partition and discard. Carefully insert heater package through the opening, provided in the blower partition. Guide the heater package into the opening being careful to align the locating pin(s) of the heater(s) in the dimpled holes provided in the rear of the blower partition. Line up the four (4) holes in the heater control panel with the four (4) prepunched holes in the blower partition and secure the heater package to the blower partition with the four (4) #10-16x1/2" screws provided.

WIRING CONNECTIONS

Connect the wires exiting the bottom of the heater package into the unit circuit by plugging in the plastic snap lock fitting into the mating fitting located on the rear of the control panel.

IMPORTANT: A separate power supply must be provided for use with any optional heater package. DO NOT attempt to connect a heater package with a basic unit to a single power supply.

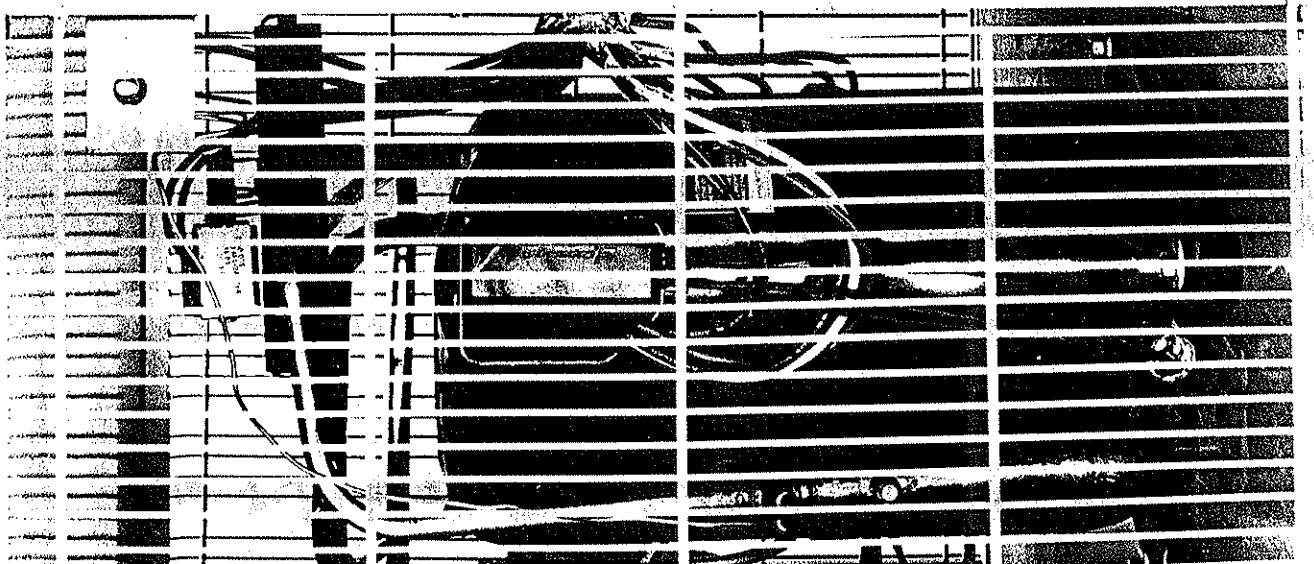


Figure 2

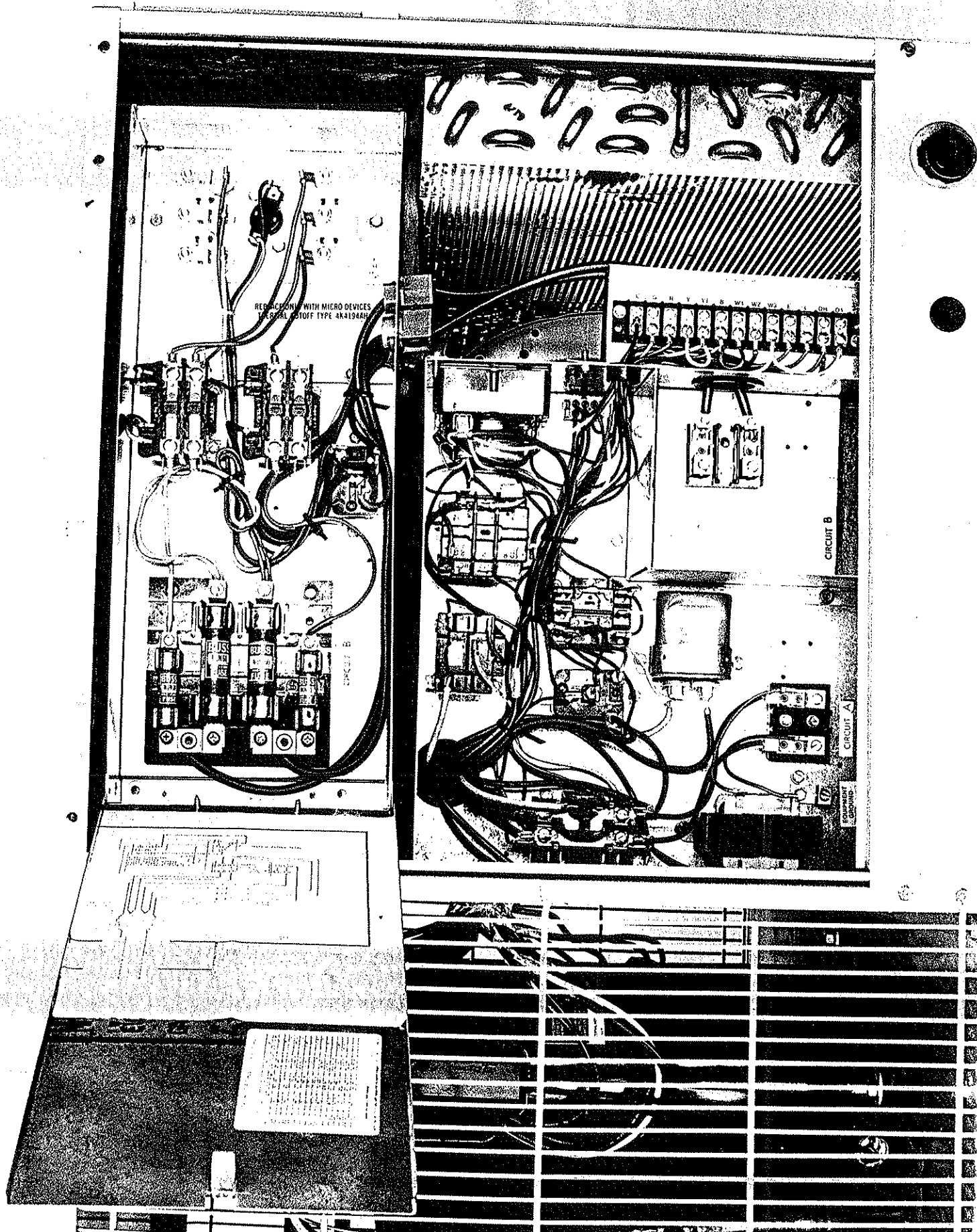


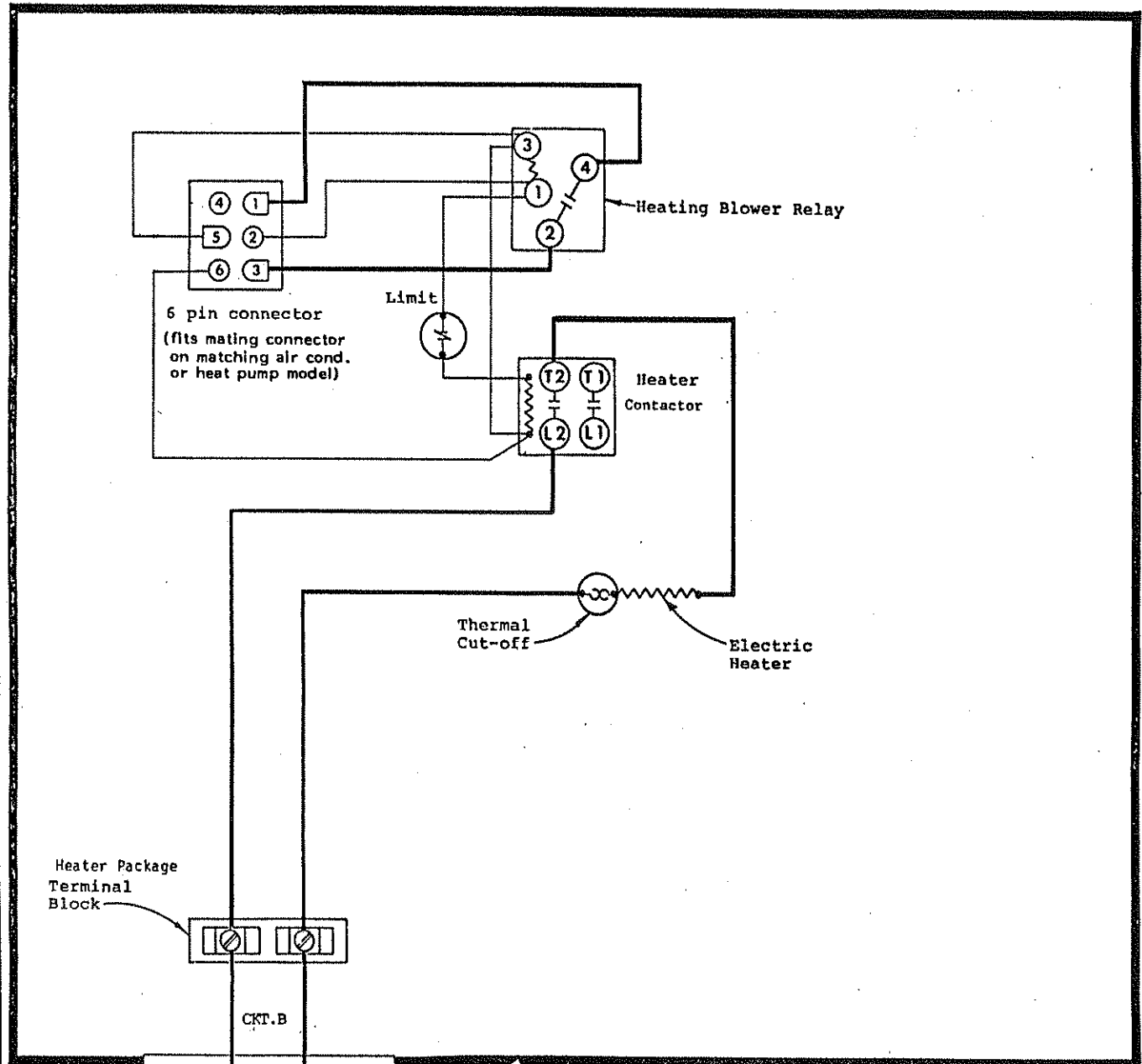
Figure 3

Remove the unit control panel cover and the inner 4-1/4" x 7-3/4" cover. By removing this cover an isolated area is exposed. Install the high voltage terminal block. Use the two (2) #8-16 x 1" screws. Install the grounding lug, using the two (2) #10-24 x 1/2" screws into the prepunched holes supplied.

Route the line voltage power circuit wires from the heater package through the bushed hole in the control panel to the newly installed high voltage terminal block.

Inspect all wiring for damage and secure any loose wiring with the enclosed wire ties. See Figure 3 for completed assembly. Replace the terminal block cover, control box cover and blower service door.

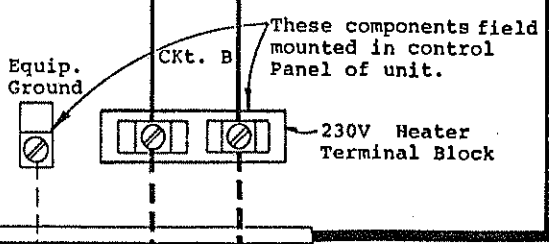
Energize both power supplies and check for proper system operation.



⚠ This heater package consists of the following:

- (1) Basic heater package.
- (1) Terminal Block (Cat. No. EB or 11993).
- (1) Listed Ground Terminal 6-12-AL, 6-14 CU.

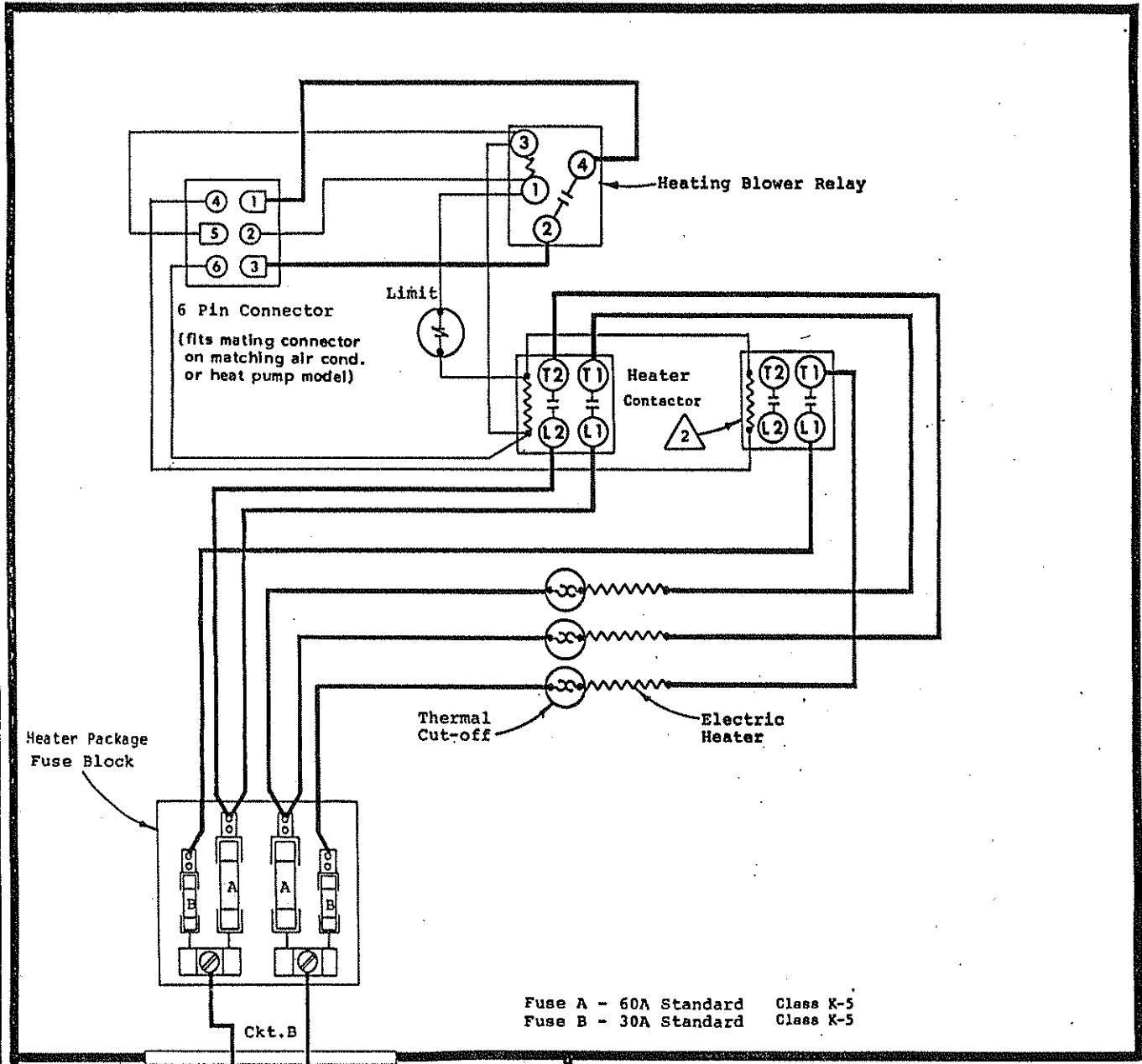
* 50HZ application not U.L. Listed
Refer to the heat package instructions for proper installation.



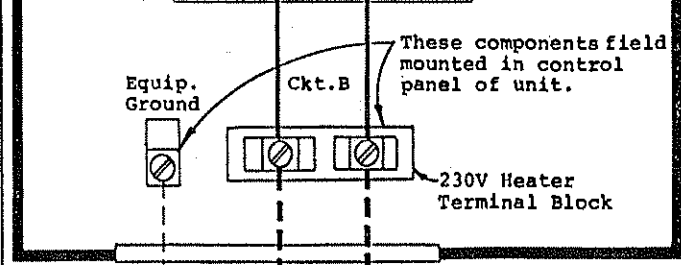
USE COPPER OR ALUMINUM WIRE

240/208-60-1
240/220-50-1 *

	FACTORY WIRING	FIELD WIRING
Low Voltage	—————	-----
High Voltage	—————	-----



Fuse A - 60A Standard Class K-5
 Fuse B - 30A Standard Class K-5



⚠ This heater package consists of the following:
 (1) Basic heater package.
 (1) Terminal Block (Cat.No. EB or 11993).
 (1) Listed Ground Terminal 6-12 AL, 6-14 CU.
 Refer to the heat package instructions for proper installation.

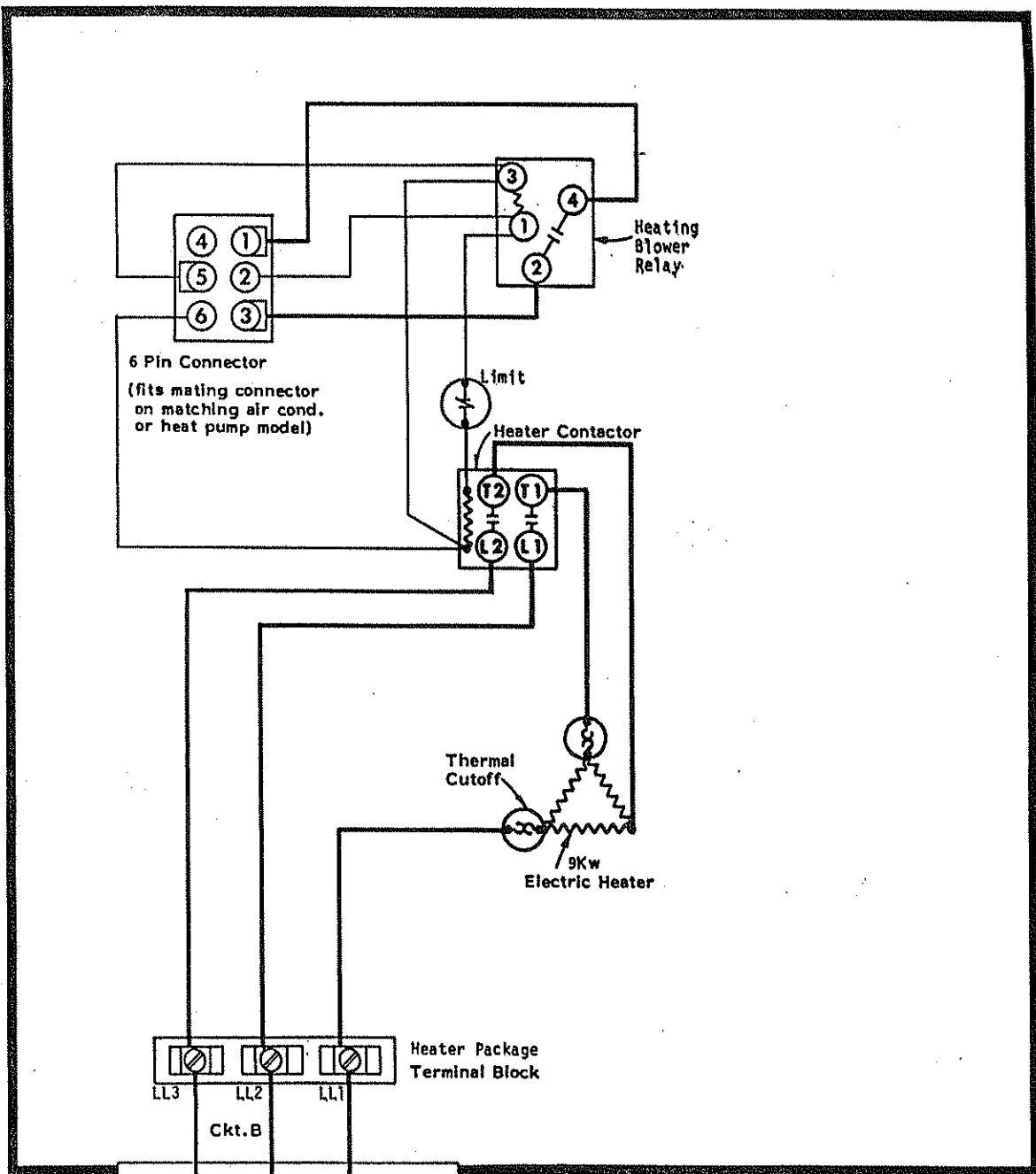
⚠ 2nd heat contactor operates only during emergency heat or compressor cut-off.

*50HZ application not U.L. Listed

USE COPPER OR ALUMINUM WIRE

FACTORY WIRING	FIELD WIRING
Low Voltage ———	-----
High Voltage ———	-----

240/208-60-1 L
 240/220-50-1 *



⚠ This heater package consists of the following:

- (1) Basic heater package
- (2) Terminal block (Cat. No. ERB or 11993)
- (3) Listed Ground Terminal 6-12AL, 6-14 CU

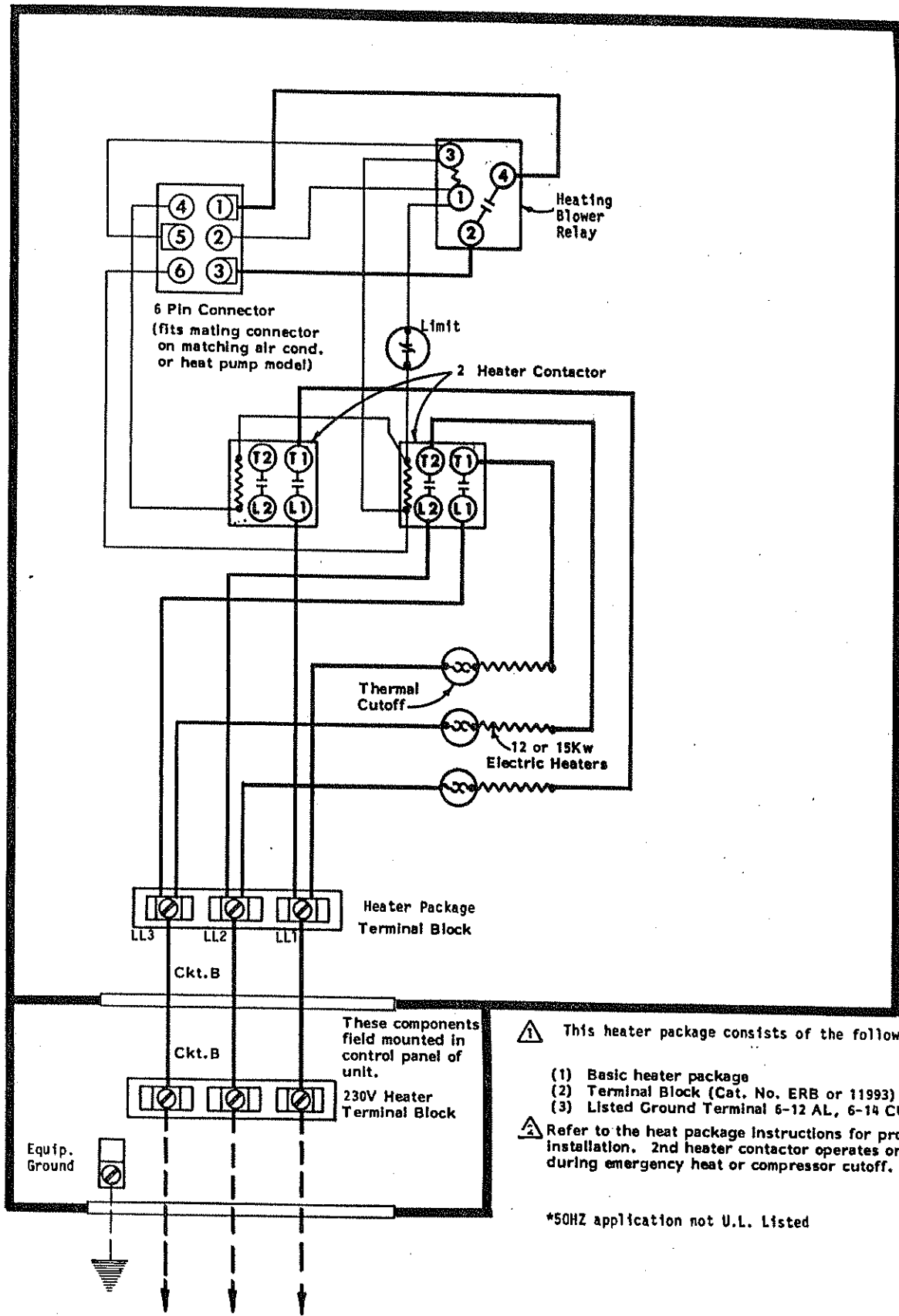
*50HZ application not U.L. Listed

These components field mounted in control panel of unit.
230V Heater Terminal Block

240/208-60-3
240/220-50-3*

USE COPPER OR ALUMINUM WIRE

FACTORY WIRING	FIELD WIRING
Low Voltage ———	-----
High Voltage ———	-----



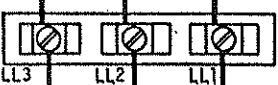
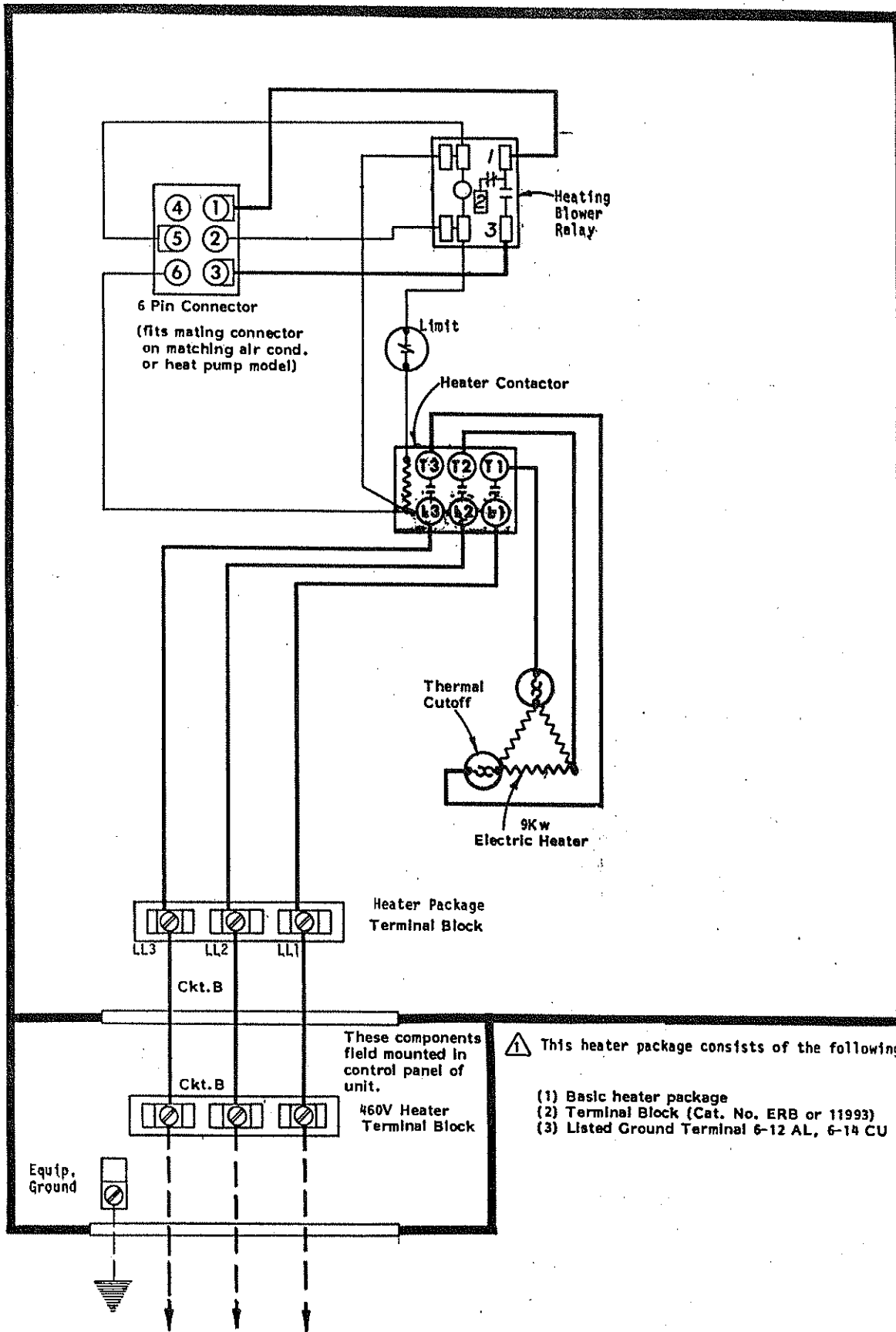
- ⚠ This heater package consists of the following:
- (1) Basic heater package
 - (2) Terminal Block (Cat. No. ERB or 11993)
 - (3) Listed Ground Terminal 6-12 AL, 6-14 CU
- ⚠ Refer to the heat package instructions for proper installation. 2nd heater contactor operates only during emergency heat or compressor cutoff.

*50HZ application not U.L. Listed

USE COPPER OR ALUMINUM WIRE

240/208-60-3
240/220-50-3

FACTORY WIRING	FIELD WIRING
Low Voltage	-----
High Voltage	-----



Heater Package Terminal Block



These components field mounted in control panel of unit.
460V Heater Terminal Block

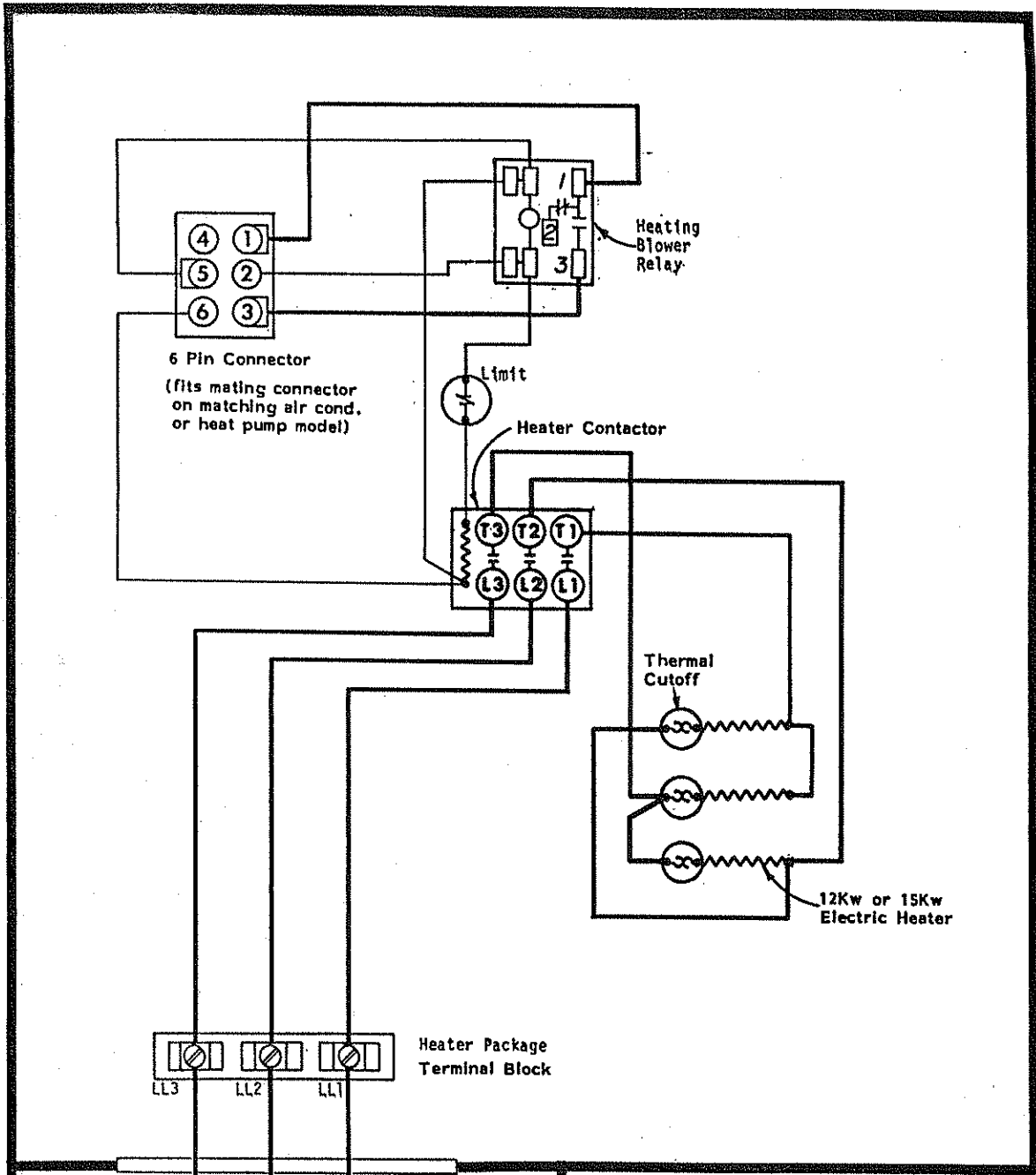
⚠ This heater package consists of the following:

- (1) Basic heater package
- (2) Terminal Block (Cat. No. ERB or 11993)
- (3) Listed Ground Terminal 6-12 AL, 6-14 CU

USE COPPER OR ALUMINUM WIRE

480-60-3

FACTORY WIRING	FIELD WIRING
Low Voltage ————	-----
High Voltage ————	-----



6 Pin Connector
(fits mating connector
on matching air cond.
or heat pump model)

Heating
Blower
Relay

Limit

Heater Contactor

Thermal
Cutoff

12Kw or 15Kw
Electric Heater

Heater Package
Terminal Block

LL3 LL2 LL1

These components
field mounted in
control panel of
unit.

460V Heater
Terminal Block

Ckt.B

Ckt.B

Equip.
Ground

⚠ This heater package consists of the following:

- (1) Basic heater package
- (2) Terminal Block (Cat. No. ERB or 11993)
- (3) Listed Ground Terminal 6-12 AL, 6-14 CU

USE COPPER OR
ALUMINUM WIRE

480-60-3

FACTORY WIRING	FIELD WIRING
Low Voltage	-----
High Voltage	-----