
INSTALLATION INSTRUCTIONS

ELECTRIC HEAT PACKAGES

Models:

EHW2TA-A10L	EHW2TAB-A08L
EHW2TA-B06L	EHWH24B-C06L
EHW3TA-A05L	EHW3TA-A15L
EHW3TA-A08L	EHW3TA-C09L
EHW3TA-A10L	EHW3TA-C15L
EHW3TA-B09L	EHW3TAB-A15L
EHW3TA-B15L	EHW3TAB-C15L
EHW1TAB-A05L	EHW3TAB-A10L
EHW1TAB-A08L	EHW3TAB-B09L
EHW2TAB-A05L	EHW3TAB-B15L

For Use with W**LB
Wall-Mounted Air Conditioners



Climate Control Solutions

Bard Manufacturing Company, Inc.
Bryan, Ohio 43506
www.bardhvac.com

Manual: 2100-730
Supersedes: **NEW**
Date: 9-16-19

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GENERAL INFORMATION

DESCRIPTION

The EHW series electric heater packages are field-installable heater packages suitable for use with Bard wall mount air conditioners. The packages consist of the electric heat strip, the heater control base (which includes the heat contactors and circuit breaker or toggle or rotary disconnects), installation instructions and wiring diagrams. See Table 1 on page 4 for nominal electrical data and BTU output. **Before installation, check unit serial plate to ensure the heater package model to be installed is a listed heater package that is suitable for use with the Bard wall mount unit** (see Figure 6 on page 13).

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 ELECTRIC HEAT PACKAGE

Remove the heat package from the shipping carton. The heat package must consist of the following:

1. Basic heater.
2. Electric heat control base and wiring.
3. Installation instructions.
4. Two wiring diagrams, one to be applied to unit.
5. Adhesive label to re-mark serial plate to indicate new model number. This is attached to the front of these instructions.

TABLE 1
Electrical Data and BTU Output

Heater Package Model	Volts	Phase	Nominal KW	Nominal BTU
EHW2TA-A10L	240/208	1	10/7.5	34,130/25,600
EHW3TA-A05L	240/208	1	5/3.75	17,065/12,800
EHW3TA-A08L	240/208	1	8/6	27,300/20,475
EHW3TA-A10L	240/208	1	10/7.5	34,130/25,600
EHW3TA-A15L	240/208	1	15/11.25	51,195/23,035
EHW3TA-B09L	240/208	3	9/6.75	30,715/23,035
EHW2TA-B06L	240/208	3	6/4.5	20,475/15,350
EHW3TA-B15L	240/208	3	15/11.25	51,195/38,400
EHW1TAB-A05L	240/208	1	5/3.75	17,065/12,800
EHW1TAB-A08L	240/208	1	8/6	27,300/20,475
EHW2TAB-A05L	240/208	1	5/3.75	17,065/12,800
EHW2TAB-A08L	240/208	1	8/6	27,300/20,475
EHWH24B-C06L	480	3	6	20,475
EHW3TA-C09L	480	3	9	30,715
EHW3TA-C15L	480	3	15	51,195
EHW3TAB-A15L	240/208	1	15/11.25	51,195/23,035
EHW3TAB-C15L	480	3	15	51,195
EHW3TAB-A10L	240/208	1	10/7.5	34,130/25,600
EHW3TAB-B09L	240/208	3	9/6.75	30,715/23,035
EHW3TAB-B15L	240/208	3	15/11.25	51,195/38,400

WIRING MAIN POWER

1. On all installations, size unit power supply wiring for the minimum circuit ampacity requirement for the unit and heater package combination listed on the unit serial plate.

⚠ WARNING

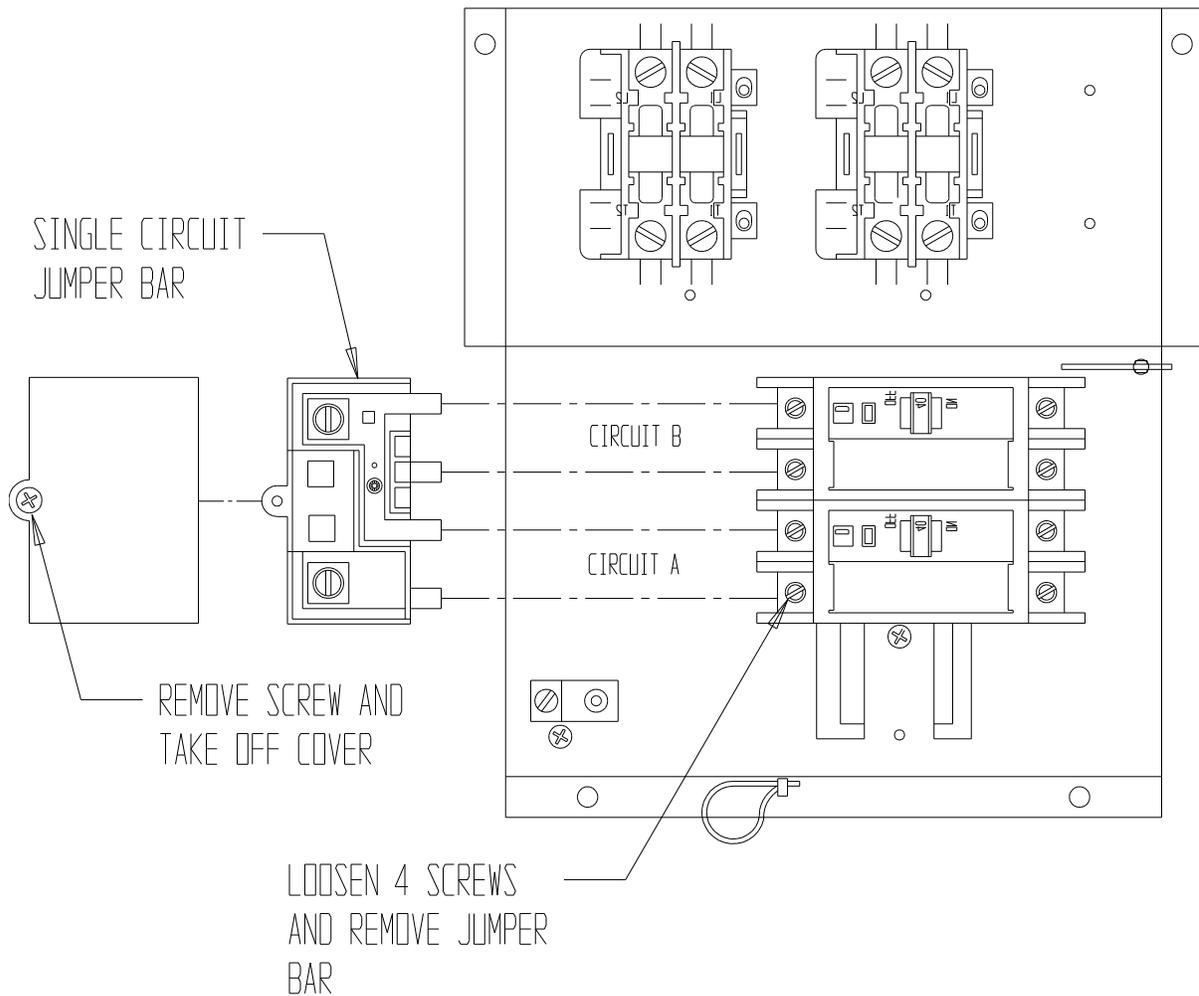
Install properly sized power supply leads for the unit/heater combination minimum circuit ampacity as listed on the unit serial plate. Hazard of fire. Failure to install properly sized conductors could result in fire causing damage, bodily injury or death.

2. All heater packages covered by this manual are factory wired for single supply circuit. The following heater packages are field-convertible to a dual supply circuit if required or desired:
EHW3TA-A15L

3. To convert the above heater packages to dual circuit configuration before installation, loosen four (4) screws holding jumper bar in place. Remove jumper bar. Circuits A + B are now identified on the heater package (see Figure 1).

Wire should be sized to the minimum circuit ampacity as specified on the serial plates of units that accept these heater packages for circuits A + B.

FIGURE 1
Electrical Connections



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INSTALLATION

INSTALLATION OF HEATER PACKAGE

1. Disconnect all power to unit before installation.

WARNING

Disconnect all power to unit before installing heater package. Hazard of electrical shock. Failure to disconnect power could result in injury or death.

2. Before installation, check unit serial plate to ensure that the heater package model to be installed is listed as a heater package suitable for use with the unit.

Under no circumstance shall a heater package be installed in a unit if the model number of the heater package does not appear on the unit serial plate.

WARNING

Install only heater packages listed on unit serial plate. Hazard of fire or electrical shock. Failure to install listed heater package could result in fire, injury or death.

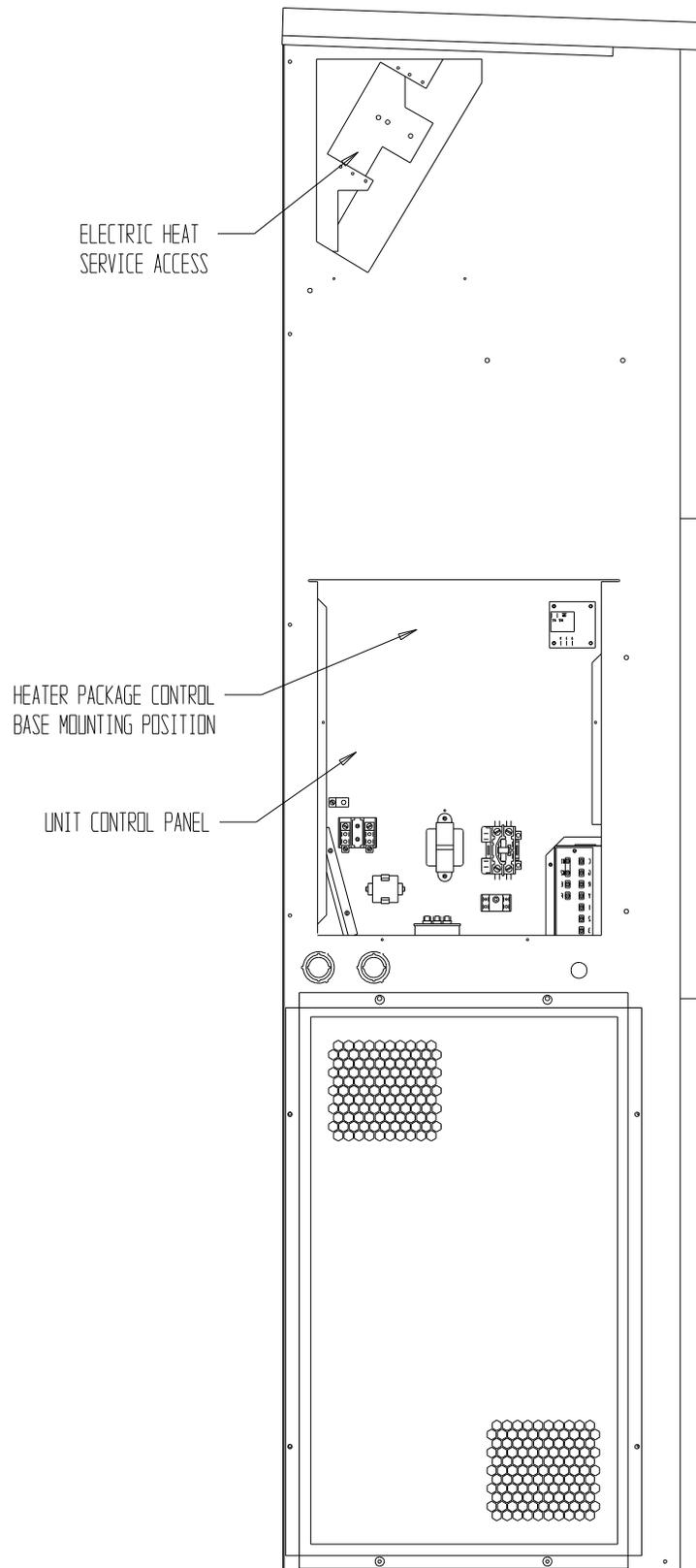
3. Remove electric heater access panel and control panel cover, both inner and outer (see Figure 2).
4. All heaters are installed with the thermal cutoffs positioned to the top of the unit. Install heat strip(s) through heater access opening. Position heat strip support rod in heater support hole 1, 2 or 3 as indicated in Table 2 (page 8) and Figure 3 (page 9).

On heater packages with two (2) heat strips, install 9KW heater first in position closest to the outlet air frame (see Figures 4E – 4G on page 11).

5. Install heater control base into top of control panel as shown in Figure 5 on page 12. Secure with four (4) sheet metal screws provided.
6. Plug male 6-pin connector into mating connector mounted in control panel (see Figure 5).

7. Connect red compressor supply lead to L1 of terminal block. Connect black compressor supply lead to L2 of terminal block. If three phase, connect yellow supply lead to L3 of terminal block. See Figure 5 and wiring diagram.
8. Route wires from heater control base up through raceway in top right corner of control panel to the heaters (see Figure 5).
9. Wire heater package per wiring diagram supplied with this heater package. All wires are stamped with wire numbers that correspond with terminal numbers on the wiring diagram and stamped numbers on the heat strip. Limit switch wires are terminated with insulated quick connect terminals. See Figure 5.
10. Attach adhesive wiring diagram directly above unit wiring diagram on inner control panel cover.
11. Recheck all wiring. Break out appropriate circuit breaker tabs on inner control panel cover to allow trip lever to protrude. Replace control panel and heater access panels.
12. Resupply power to the unit and check for proper operation.
13. Re-mark serial plate with self-adhesive label attached to the front of this manual (see Figure 6 on page 13).

FIGURE 2
Electric Heater Access Panel and Control Panel Cover Locations

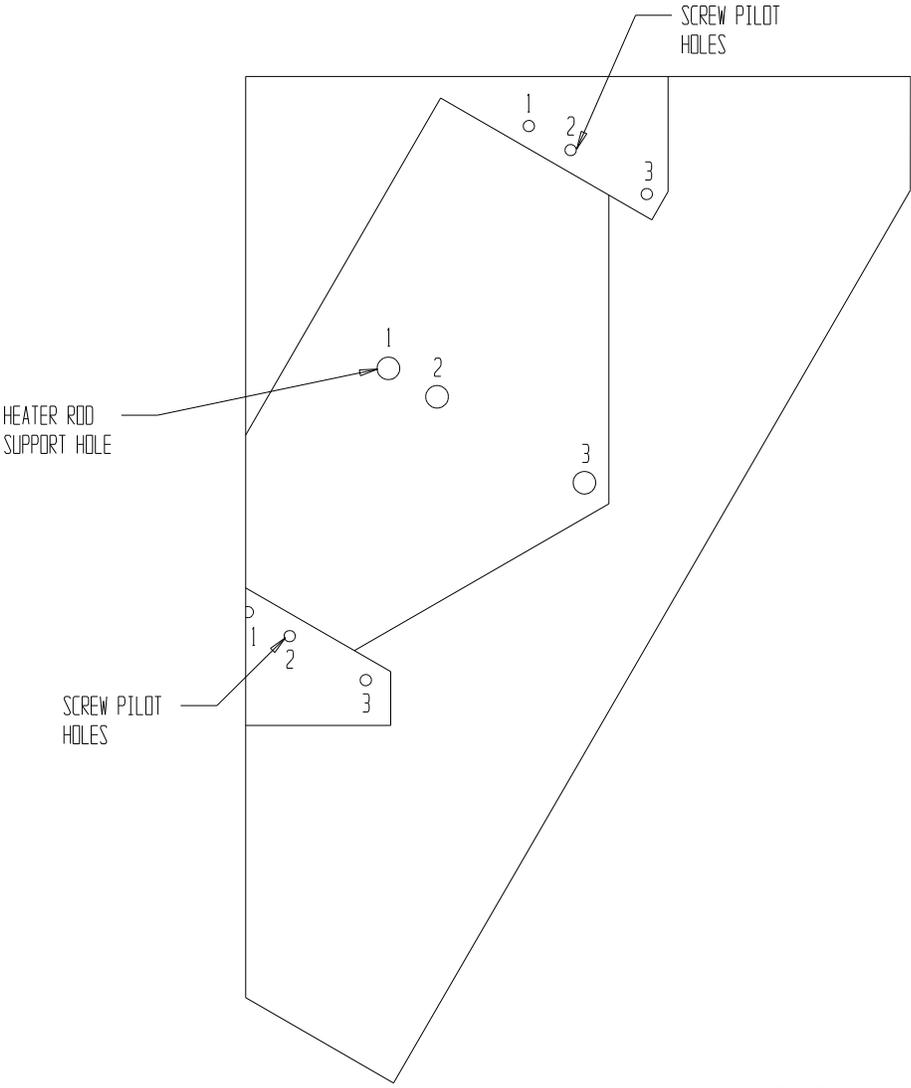


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TABLE 2
References to Figures 3 and 4 by Model Number

Heater Package Model Number	Figure 3 Rod Support and Screw Mounting Position	Figure 4 Heater Terminal Identification Drawing
EHW2TA-A10L	1	4B
EHW3TA-A05L	1	4A
EHW3TA-A08L	1	4B
EHW3TA-A10L	1	4B
EHW3TA-A15L	1 + 3	4E
EHW3TA-B09L	1	4C
EHW2TA-B06L	1	4C
EHW3TA-B15L	1 + 3	4G
EHW1TAB-A05L	1	4A
EHW1TAB-A08L	1	4B
EHW2TAB-A05L	1	4A
EHW2TAB-A08L	1	4B
EHW24B-C06L	1	4C
EHW3TA-C09L	1	4C
EHW3TA-C15L	1 + 3	4G
EHW3TAB-A15L	1 + 3	4E
EHW3TAB-C15L	1 + 3	4G
EHW3TAB-A10L	1	4B
EHW3TAB-B09L	1	4C
EHW3TAB-B15L	1 + 3	4G

FIGURE 3
Screw Mounting Holes



MIS-2905

**FIGURE 4
A Through D**

FIGURE 4A

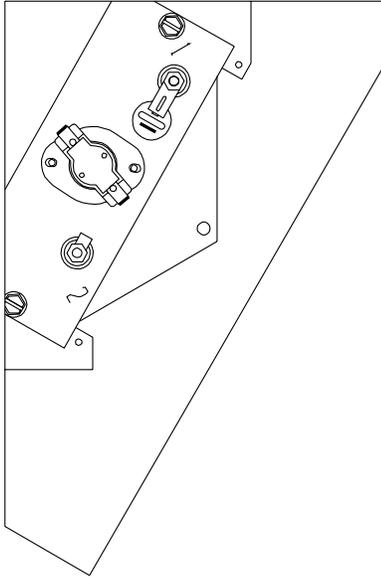


FIGURE 4C

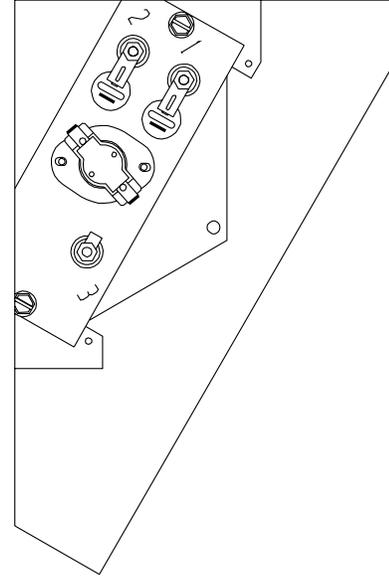


FIGURE 4B

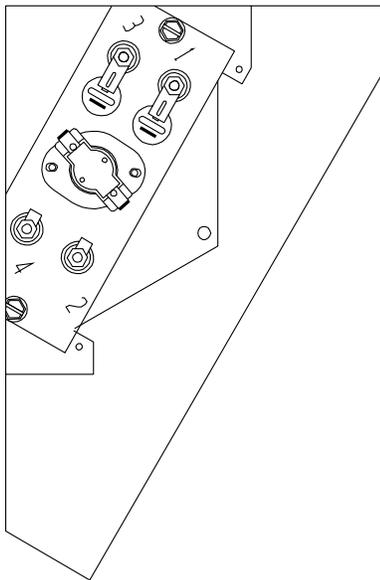
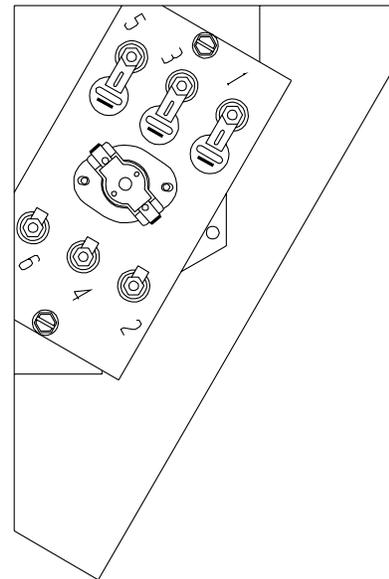


FIGURE 4D



NOTE: THERMAL CUTOFFS TO BE AT
TOP OF AIR FRAME WHEN INSTALLING.

MIS-2910 D

**FIGURE 4
E Through G**

FIGURE 4E

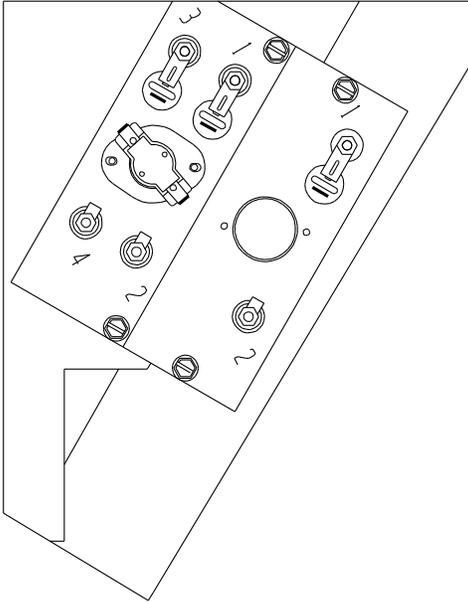


FIGURE 4F

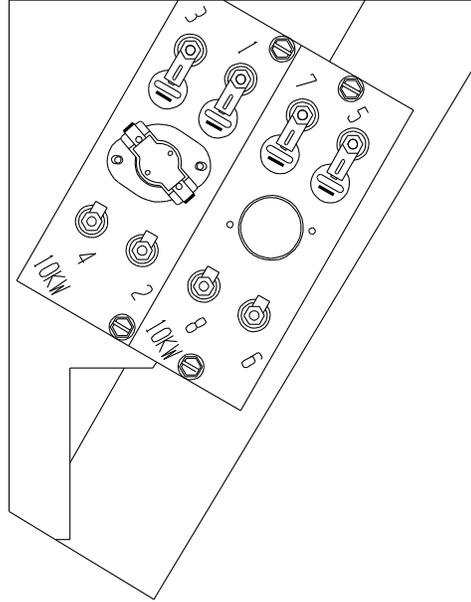
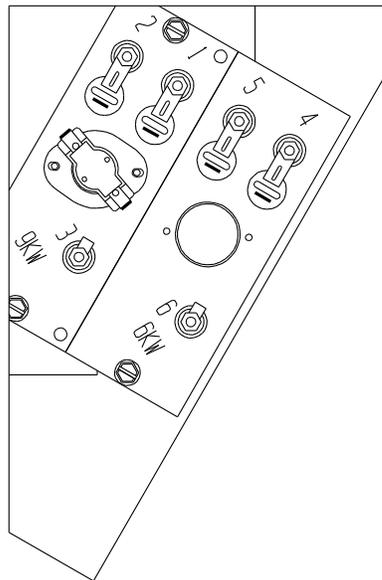


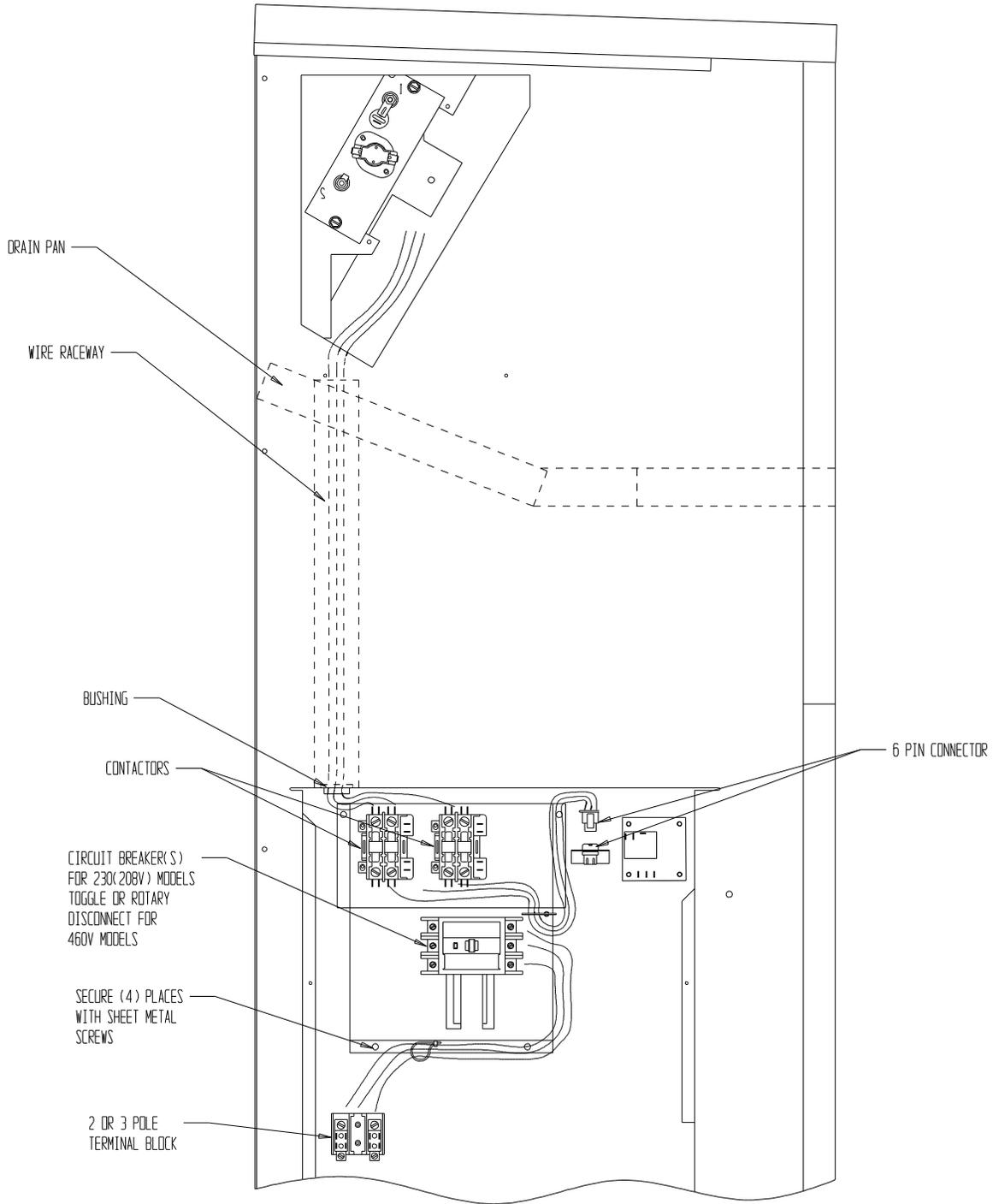
FIGURE 4G



NOTE: THERMAL CUTOFFS TO BE AT
TOP OF AIR FRAME WHEN INSTALLING.

MIS-2911 C

FIGURE 5
Installing Heater Base and Connecting Wiring



MIS-2904

**FIGURE 6
Serial Plate Label**

INSTALL ONLY HEATER PACKAGES LISTED HERE.

BARD MANUFACTURING COMPANY, 1914 RANDOLPH DRIVE

(X)	()	()	()	()	()
()	(X)	()	()	()	()
()	()	(X)	()	()	()
()	()	()	(X)	()	()
()	()	()	()	()	(X)

(1)
APPROVED
HEATER
PACKAGE

MODEL
 () WA361-A0012345
 () WA361-A0512345
 (X) WA361-A0812345
 () WA361-A1012345
 () WA361-A1512345

VAC
 230/208
 230/208
 230/208
 230/208
 230/208

HZ
 60
 60
 60
 60
 60

ASSURE THAT SERIAL PLATE IS CLEAN AND DRY, REMOVE APPROPRIATE LABEL STRIP FOR KW REQUIRED AND REMARK SERIAL PLATE AS SHOWN FOR THE HEATER PACKAGE THAT IS INSTALLED

BRANCH CIRCUIT SELECT CURRENT 17 OPERATION
 SERIAL NUMBER 125H920711193-01 UL FILE NO.

SUITABLE FOR OUTDOOR USE

COMPELLOR	VAC	HZ	PH	HP	
OUTDOOR MOTOR	230/208	60	1	1	1/5
INDOOR MOTOR	230/208	60	1	1	1/3
HEATER PACKAGE					KW
EHWA03-A05	240/208	60	1	1	5/3.75
EHWA03-A08	240/208	60	1	1	8/6
EHWA03-A10	240/208	60	1	1	10/7.5
EHWA03-A15	240/208	60	1	1	15/11.25

FACTORY CHARGED R22: 68 OZ. DESI
 -- FACTORY
 -- CLEAR

MS-394