



# INSTALLATION INSTRUCTIONS

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## OPTIONAL ELECTRIC HEAT PACKAGES

**MODELS:**  
**EH3GSVA-A05C**  
**EH3GSVA-A09C**  
**EH3GSVA-A14C**

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**BARD MANUFACTURING COMPANY**  
**Bryan, Ohio 43506**

*Since 1914...Moving ahead, just as planned.*

Manual: 2100-318  
Supersedes:  
File: Volume 1, Tab 7  
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# GENERAL

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## 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:

1. Basic heater enclosure and control panel.
2. Installation instructions and wiring diagram.

# INSTALLATION

## INSTALLING HEAT PACKAGE TO GSVS UNIT

Disconnect all power supplies to the unit. Remove the blower access door and compressor access door.

Remove the two (2) screws used to secure the blower angle to blower slide. Unplug motor leads from motor. Remove angle and slide blower assembly from unit. (See Figure 1.)

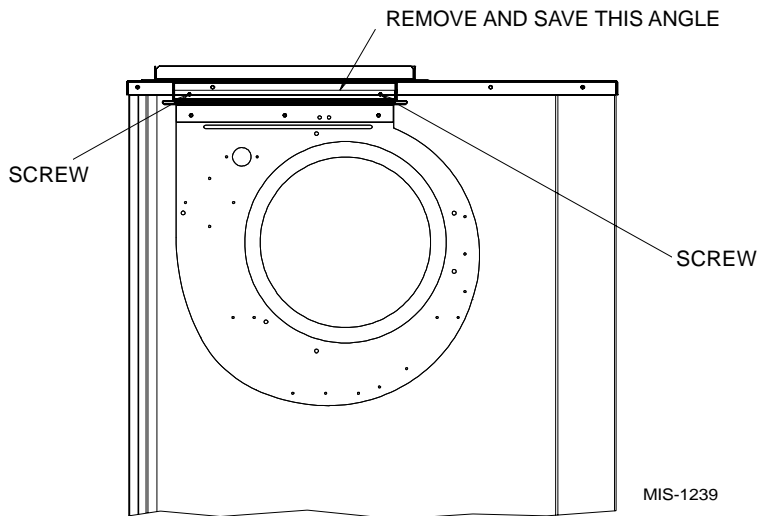
Slide the heat package into the blower slide and screw into place. (See Figure 2.)

Connect heat package control panel to top of unit. (See Figure 3.) Slide blower assembly into heat package and secure in place with blower angle. (See Figure 4.)

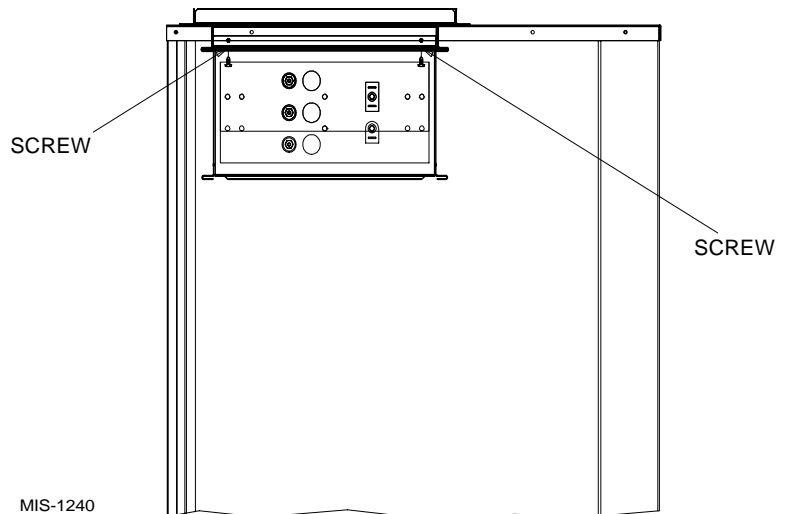
### CAUTION

**Do not** plug or unplug power connector with power applied. The power must be off for 5 minutes before plugs may be disconnected. Failure to remove power will result in motor failure.

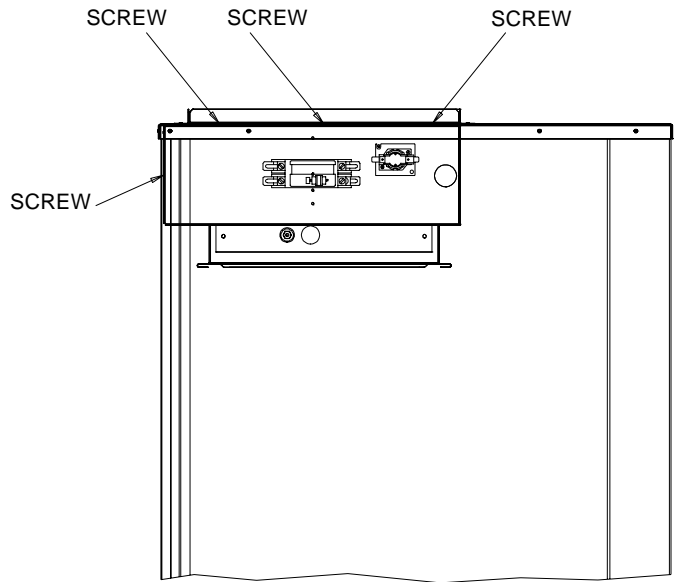
**FIGURE 1  
(RIGHT HAND RETURN SHOWN)**



**FIGURE 2  
(RIGHT HAND RETURN SHOWN)**

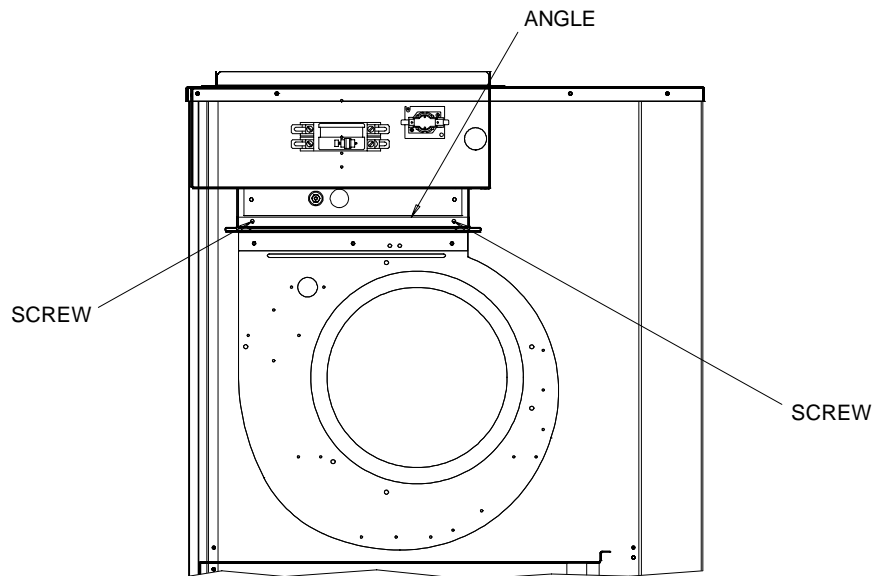


**FIGURE 3**  
**(RIGHT HAND RETURN SHOWN)**



MIS-1241

**FIGURE 4**  
**(RIGHT HAND RETURN SHOWN)**



MIS-1242

# WIRING

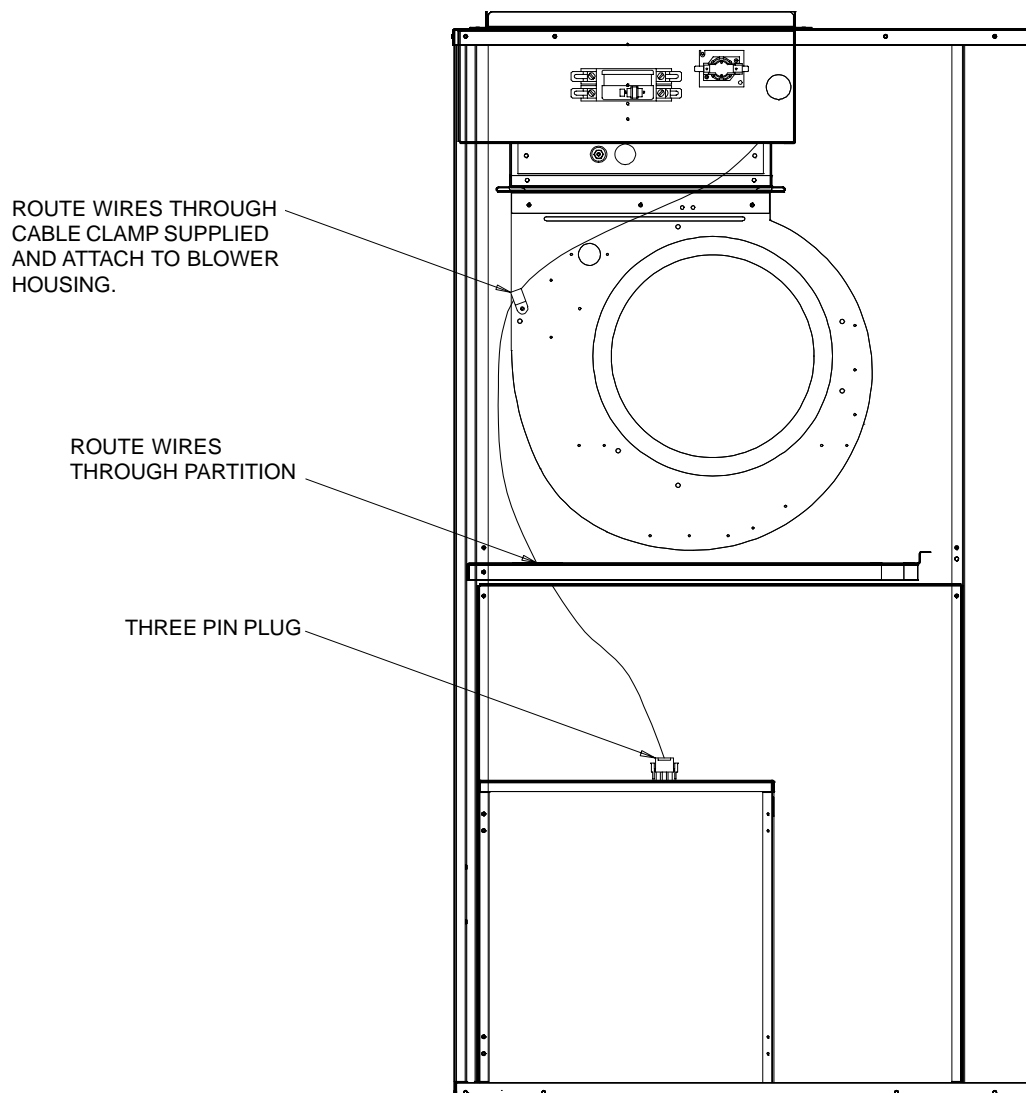
Power supply wiring can now be made to the heat package. Route the low voltage three pin plug through the partition and plug into mating plug in top of control panel. (See Figure 5.) This connection supplies the low voltage control circuit to the heat package from the heat pump control circuit.

Inspect all wiring for damage and secure any loose wiring. Apply the heat package wiring diagram supplied onto the blower access panel in such a way as to not cover the circuit breaker knockouts.

Remove the proper knockout(s) in the blower access door that will allow the circuit breakers to extend through the door.

Replace the blower access door and the compressor access door. Energize the unit and check for proper system operation.

**FIGURE 5**  
**(RIGHT HAND RETURN SHOWN)**

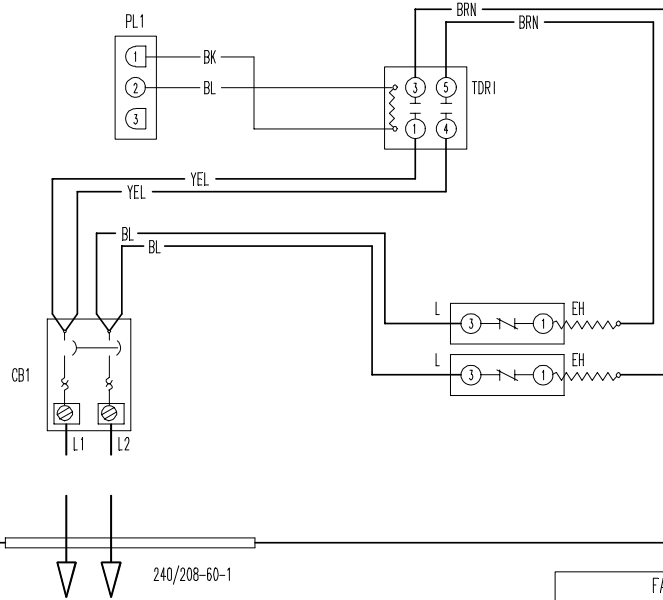


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# CONNECTION DIAGRAM

DANGER: ELECTRICAL SHOCK HAZARD.  
DISCONNECT POWER BEFORE SERVICING.



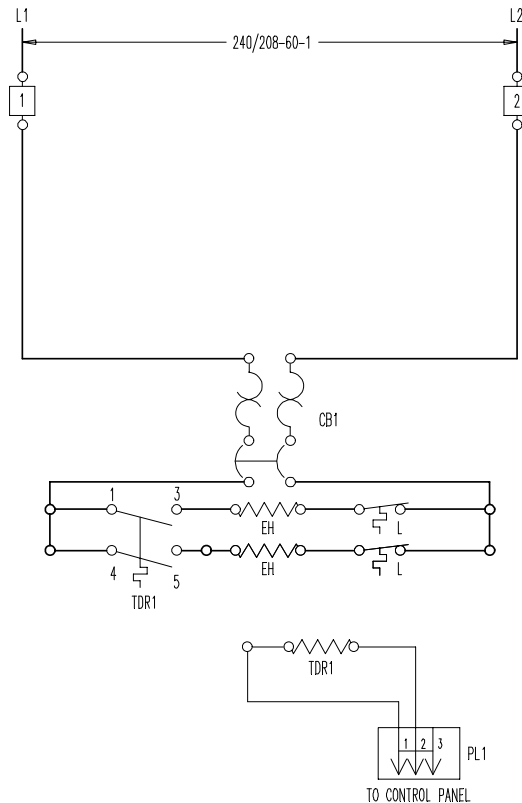
COMPONENT CODE	
CB1	CIRCUIT BREAKER 1
CB2	CIRCUIT BREAKER 2
EH	ELECTRIC HEATER
L	LINE BREAK LIMIT
PL1	PLUG #1
TB	TERMINAL BLOCK
TDR1	TIME DELAY RELAY 1
TDR2	TIME DELAY RELAY 2

NOTE: REFER TO THE HEATER PACKAGE  
INSTRUCTIONS FOR PROPER INSTALLATION

	FACTORY WIRING	FIELD WIRING
Low Voltage		
High Voltage		

USE COPPER OR  
ALUMINUM WIRE

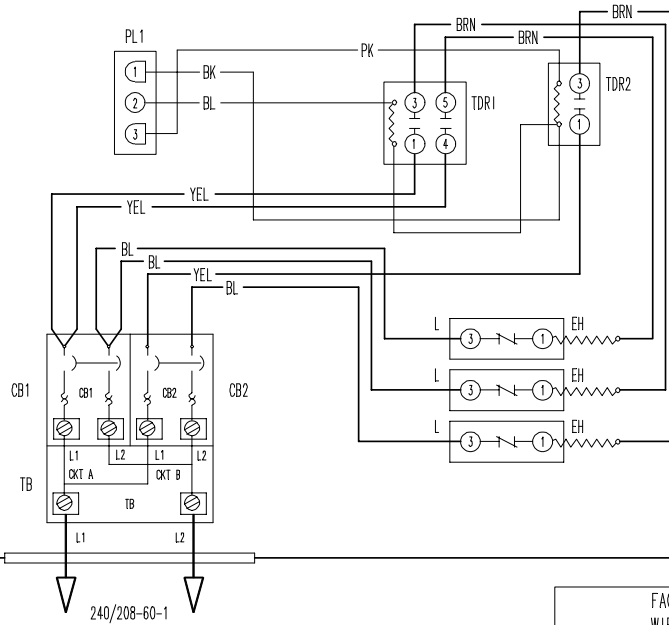
# LADDER DIAGRAM



4106-110

# CONNECTION DIAGRAM

DANGER: ELECTRICAL SHOCK HAZARD.  
DISCONNECT POWER BEFORE SERVICING.



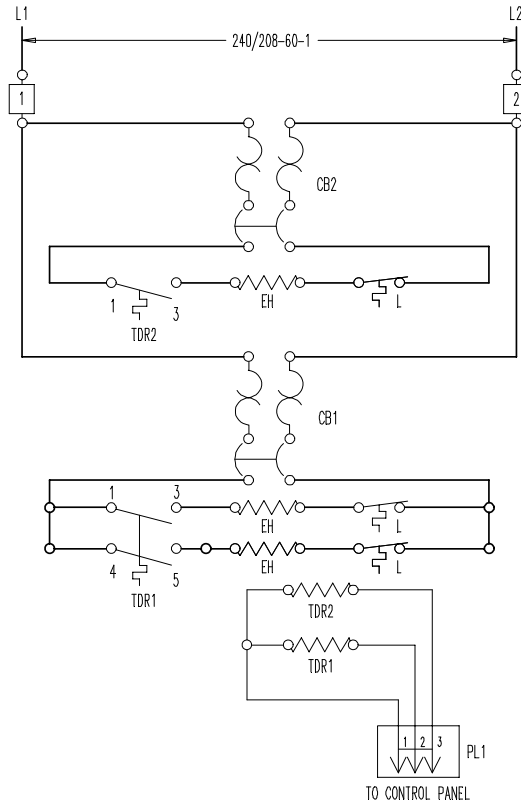
COMPONENT CODE	
CB1	CIRCUIT BREAKER 1
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EH	ELECTRIC HEATER
L	LINE BREAK LIMIT
PL1	PLUG #1
TB	TERMINAL BLOCK
TDR1	TIME DELAY RELAY 1
TDR2	TIME DELAY RELAY 2

NOTE: REFER TO THE HEATER PACKAGE  
INSTRUCTIONS FOR PROPER INSTALLATION

	FACTORY WIRING	FIELD WIRING
Low Voltage		
High Voltage		

USE COPPER OR  
ALUMINUM WIRE

# LADDER DIAGRAM



4106-120