

# **INSTALLATION INSTRUCTIONS**

## **MODELS**

**EH3BA-A05N**

**EH3BA-A09N**

**EH3BA-A14N**

**EH3BA-A18N**

**EH3BA-A05C**

**EH3BA-A09C**

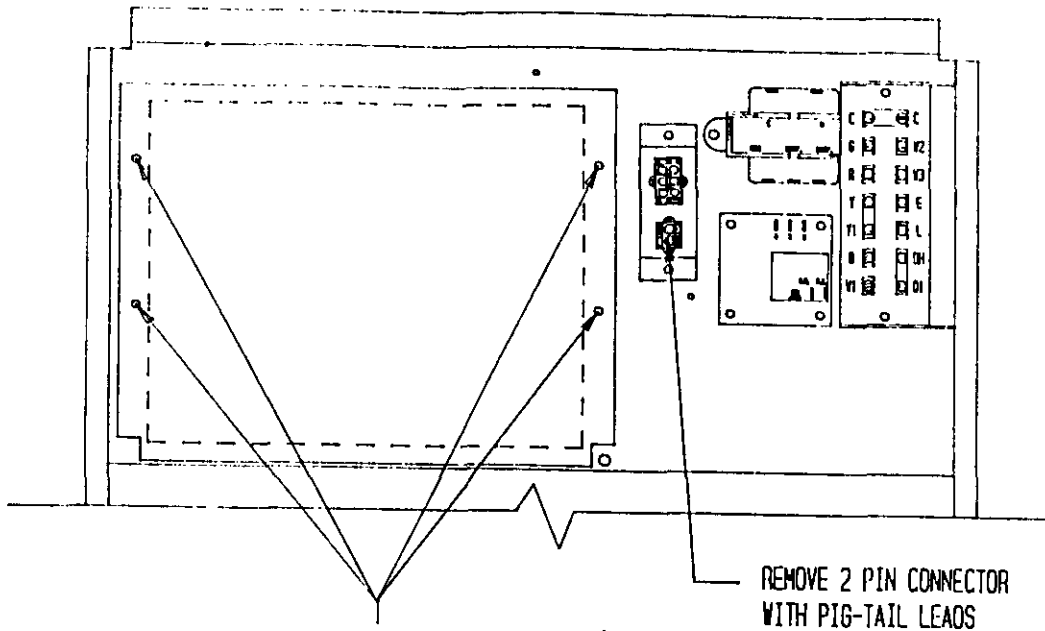
**EH3BA-A14C**

**EH3BA-A18C**

**OPTIONAL ELECTRIC HEAT PACKAGES  
FOR USE WITH MODELS**

**BC35B AND BC36B**

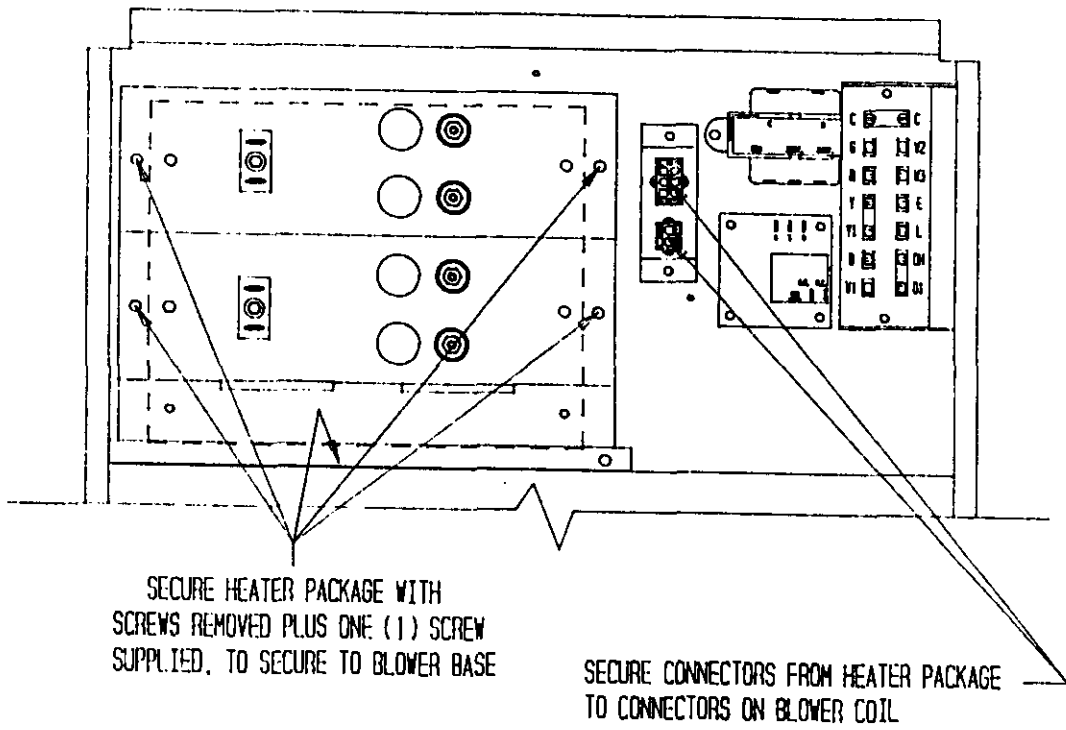
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BRYAN, OHIO



REMOVE THESE FOUR (4) SCREWS  
TO REMOVE O KW FILL PLATE

REMOVE 2 PIN CONNECTOR  
WITH PIG-TAIL LEADS

FIGURE 1



SECURE HEATER PACKAGE WITH  
SCREWS REMOVED PLUS ONE (1) SCREW  
SUPPLIED, TO SECURE TO BLOWER BASE

SECURE CONNECTORS FROM HEATER PACKAGE  
TO CONNECTORS ON BLOWER COIL

FIGURE 2

## 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 with controls.
2. Installation instructions and wiring diagram.

## INSTALLATION

Disconnect all power supplies to the blower coil. Remove the blower service door located at the top of the unit. Remove the four screws used to secure the OKW fill plate to the control panel partition. (Figure 1)

**NOTE:** With installation heater packages that are equipped with circuit breakers, the control panel cover can not be used and must be removed.

## WIRING

Remove the two pin plug in connector supplied for field wiring of blower coil when no heater package is installed. Field wiring will now be made at the heater package.

Slide heater package into blower coil and secure with the four screws that held OKW fill plate in place and one screw supplied with heater package. (Figure 2)

Connection between the heater package and the blower coil is made by plugging in the plastic snap lock fittings into the mating fittings located in the control area. (Figure 2)

Power supply wiring can now be made to the heater package which will supply power to the transformer and blower motor without a separate power supply.

Inspect all wiring for damage and secure any loose wiring. Apply the heater package wiring diagram supplied next to the blower coil wiring diagram in such a way as to not cover the circuit breaker knockouts.

**NOTE:** For heater packages with circuit breakers, remove the proper knockout(s) in the blower service door that will allow the circuit breakers to extend through the service door.

Replace the blower service door, energize the unit and check for proper system operation.

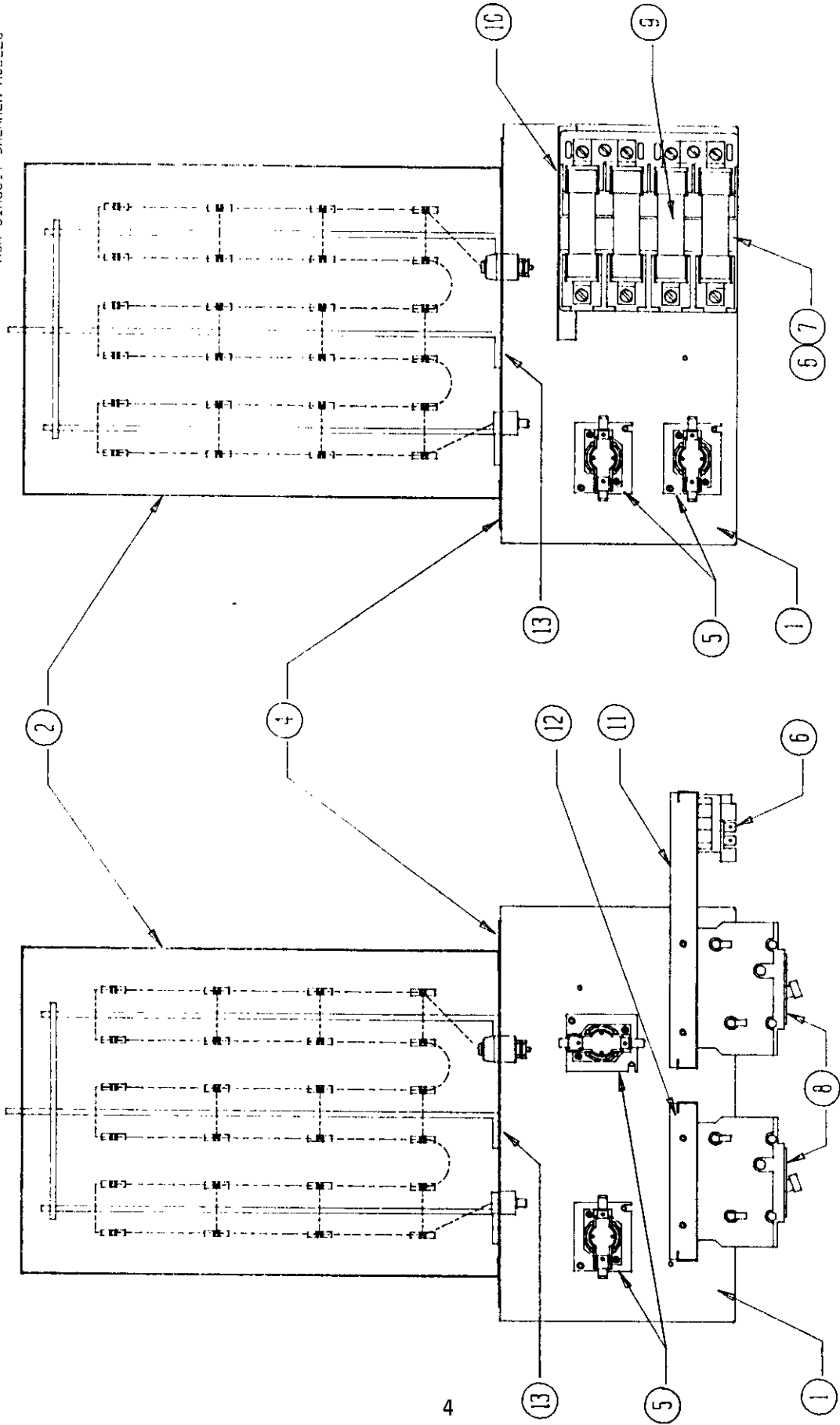
PARTS LIST

Date: 3/31/89

Dwg. No.	Part No.	Description	E H 3 B A   A O 5 N	E H 3 B A   A O 9 N	E H 3 B A   A 1 4 N	E H 3 B A   A 1 8 N	E H 3 B A   A 0 5 C	E H 3 B A   A 0 9 C	E H 3 B A   A 1 4 C	E H 3 B A   A 1 8 C
1	134-104	Heater Package Base	x	x	x	x	x	x	x	x
2	134-103	Heater Package Wrapper	x	x	x	x	x	x	x	x
4	8604-092	4.5KW Heat Strip 240V	1		1		1		1	
4	8604-093	9KW Heat Strip 240V		1	1	2		1	1	2
4	136-142	Fill Plate	x	x			x	x		
5	8201-057	Time Delay Relay H30-70 C1-40	1		1		1		1	
5	8201-058	Time Delay Relay H1-30 L45-75		1	1	1		1	1	1
5	8201-058	Time Delay Relay H30-75 C1-40				1				1
6	8607-013	Terminal Block	1	1					1	1
7	8614-017	Fuse Block			1					
7	8614-018	Fuse Block				1				
8	8615-013	Circuit Breaker 30A					1		1	
8	8615-015	Circuit Breaker 50A						1	1	2
9	8614-006	Fuse 30A			2					
9	8614-005	Fuse 50A			2	4				
	4090-110	Wiring Diagram	x							
	4090-111	Wiring Diagram					x			
	4090-120	Wiring Diagram		x						
	4090-121	Wiring Diagram						x		
	4090-130	Wiring Diagram			x					
	4090-131	Wiring Diagram							x	
	4090-140	Wiring Diagram				x				
	4090-141	Wiring Diagram				x				x
10	134-105	Fusing Barrier			x	x				
11	112-093	Circuit Breaker Mounting Plate						x	x	x
12	112-092	Circuit Breaker Mounting Plate					x	x	x	x
13	8402-056	Limit Control L150-3.5	1	2	3	4	1	2	3	4

CIRCUIT BREAKER MODELS

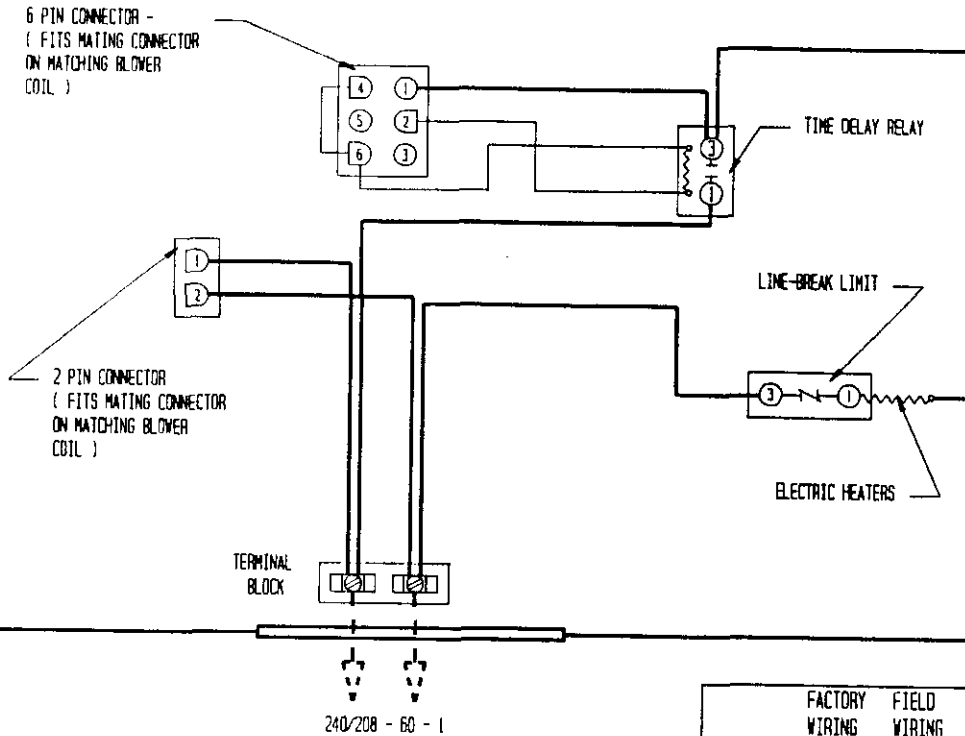
NON-CIRCUIT BREAKER MODELS



NOTE: 18 Kw HEATER PACKAGES ARE SHOWN. LOWER Kw PACKAGES WILL HAVE FEWER PARTS.

# CONNECTION DIAGRAM

DANGER: ELECTRICAL SHOCK HAZARD.  
DISCONNECT POWER BEFORE SERVICING.

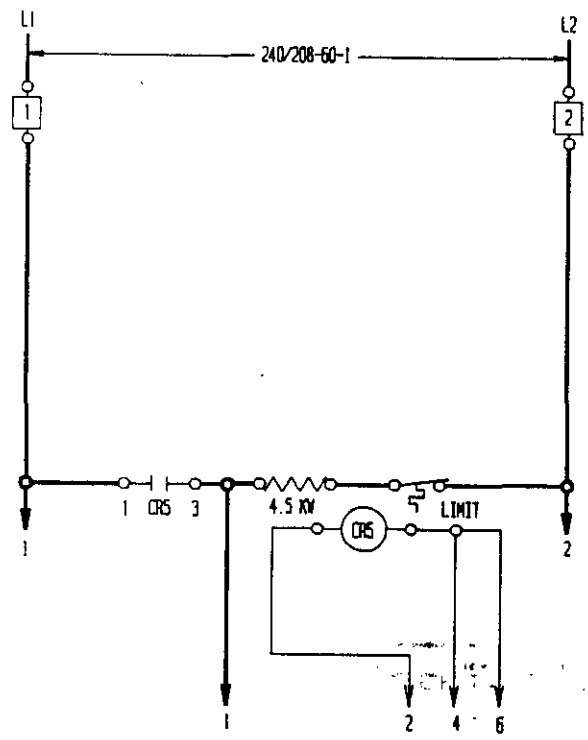


NOTE: REFER TO THE HEATER PACKAGE  
INSTRUCTIONS FOR PROPER INSTALLATION

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

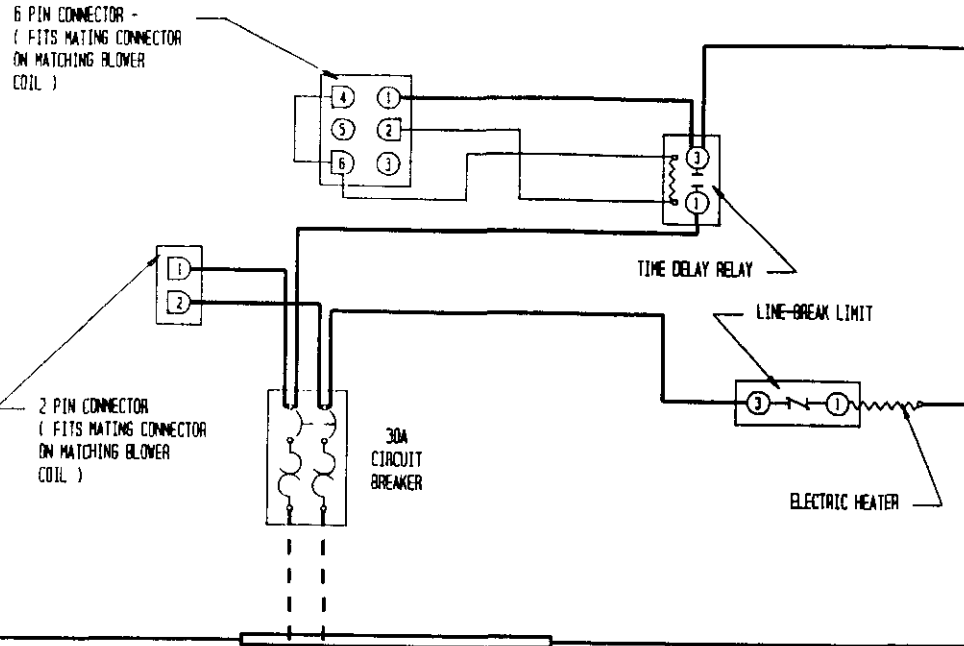
USE COPPER OR ALUMINUM WIRE

# LADDER DIAGRAM



# CONNECTION DIAGRAM

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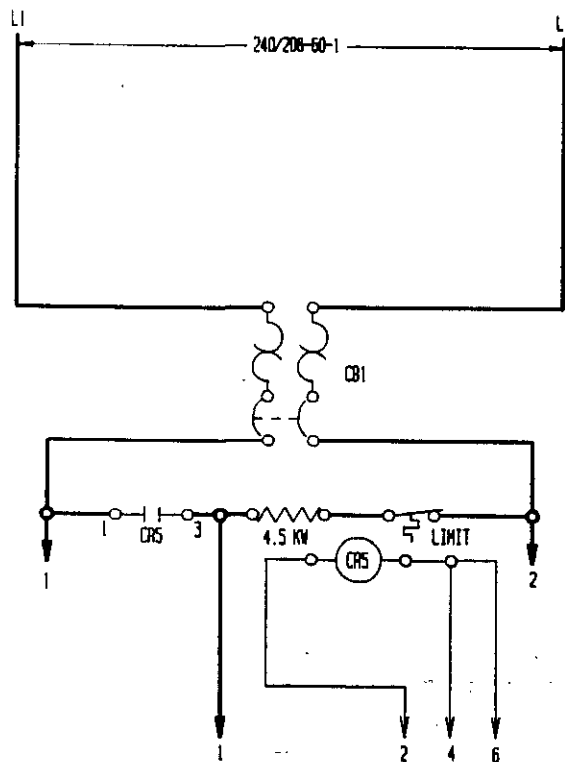
240/208 - 60 - 1

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

USE COPPER OR  
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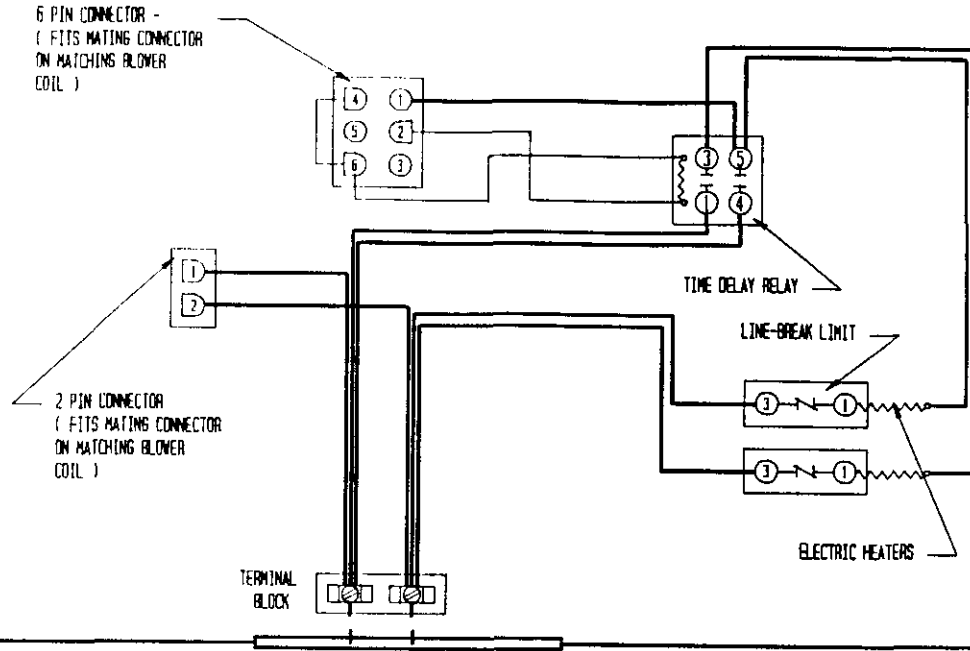
# LADDER DIAGRAM





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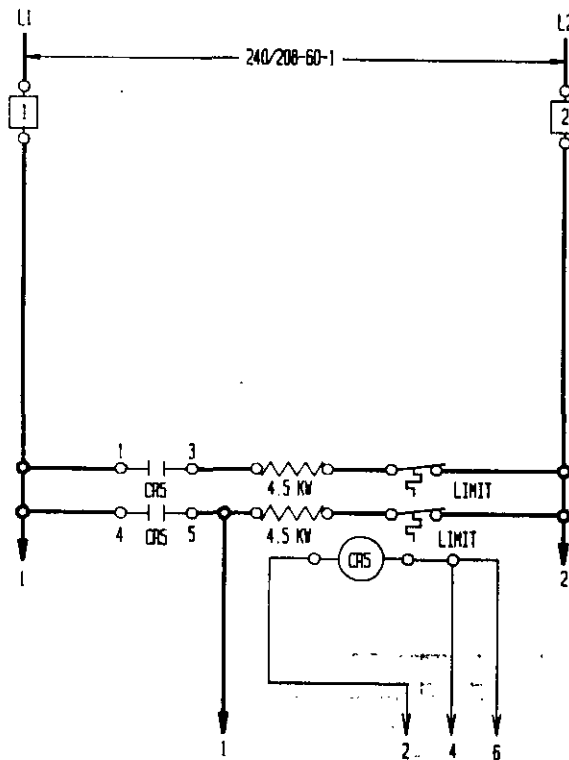
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High Voltage	- - -	—

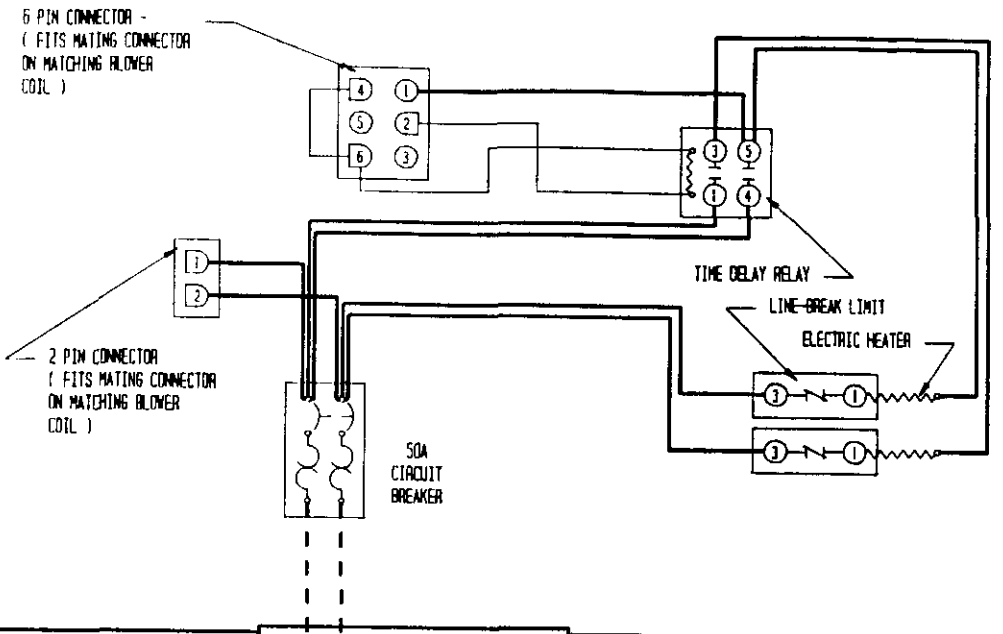
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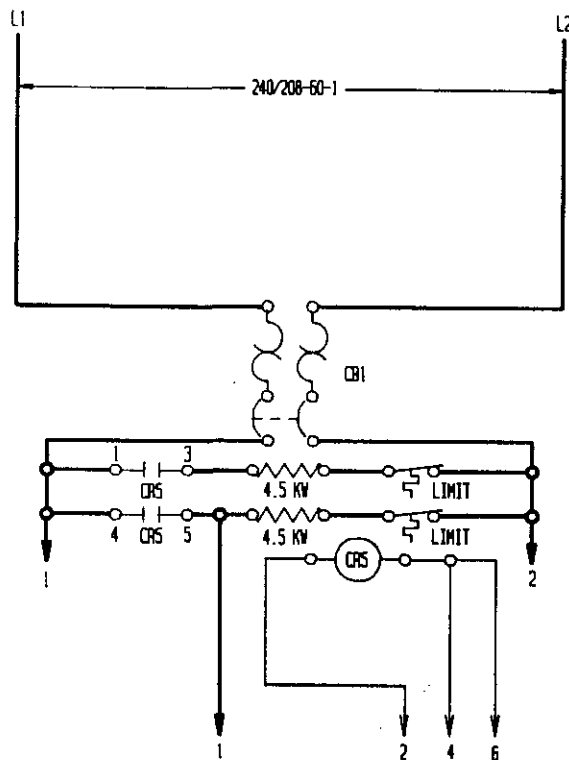
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High Voltage	-----	-----

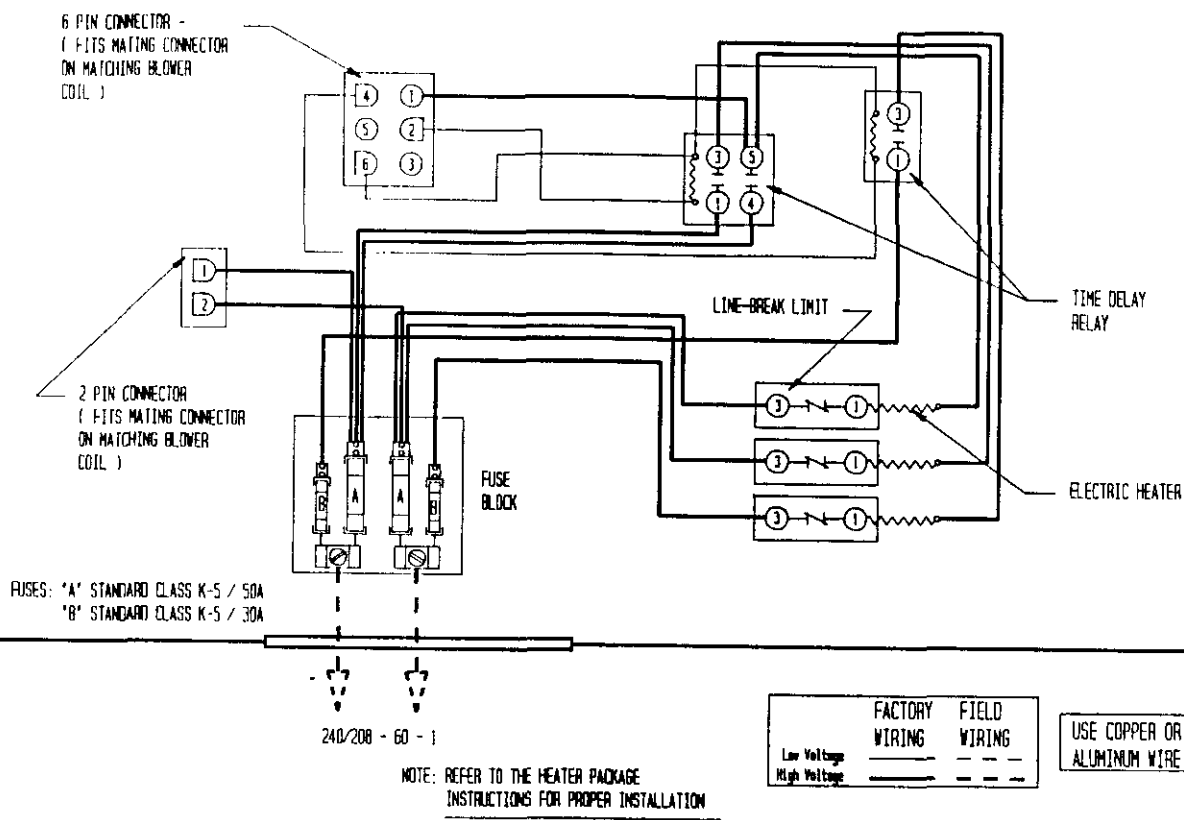
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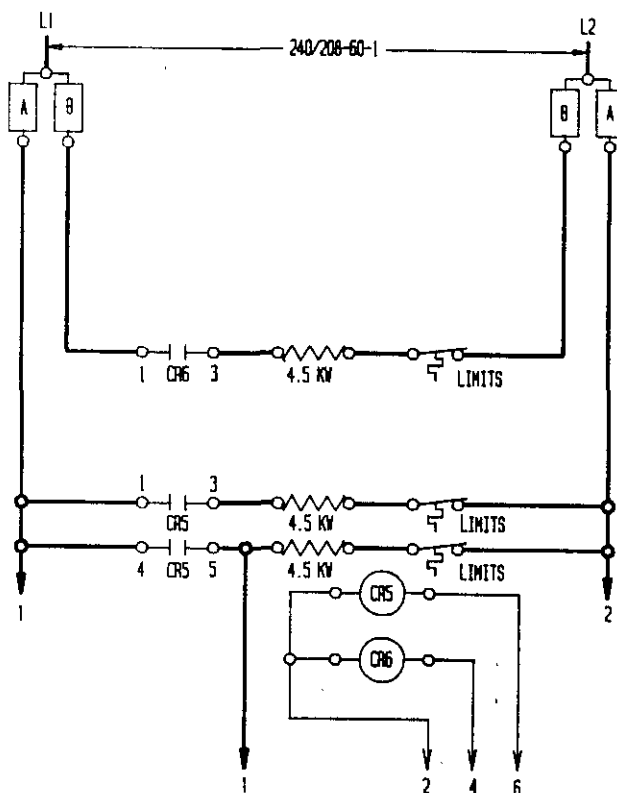


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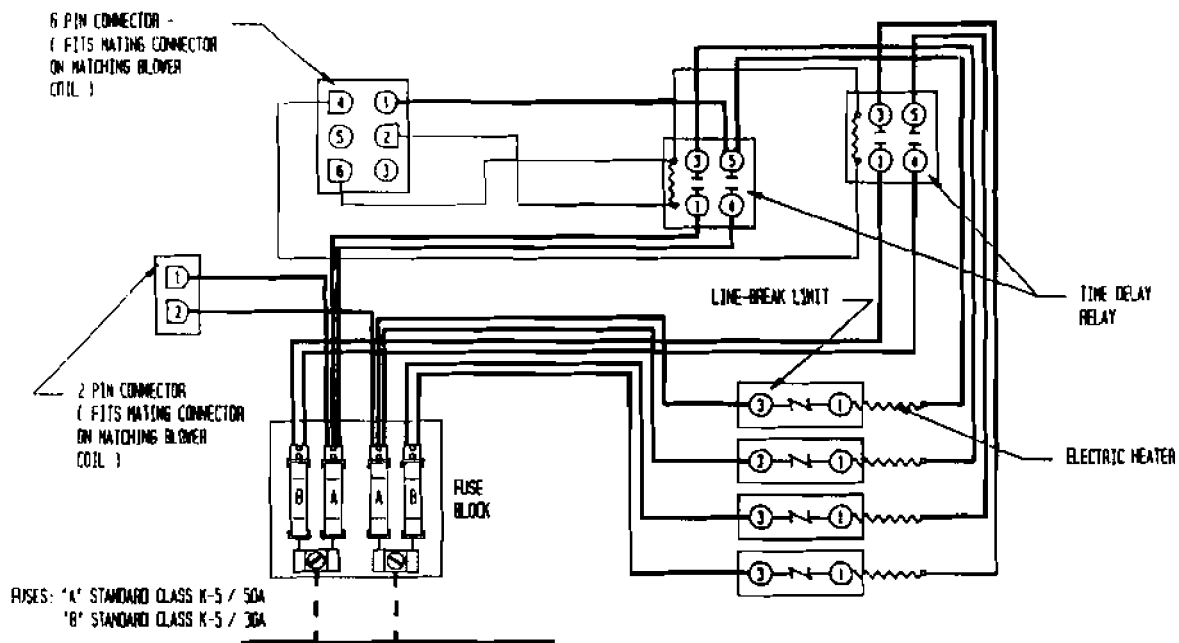


# LADDER DIAGRAM



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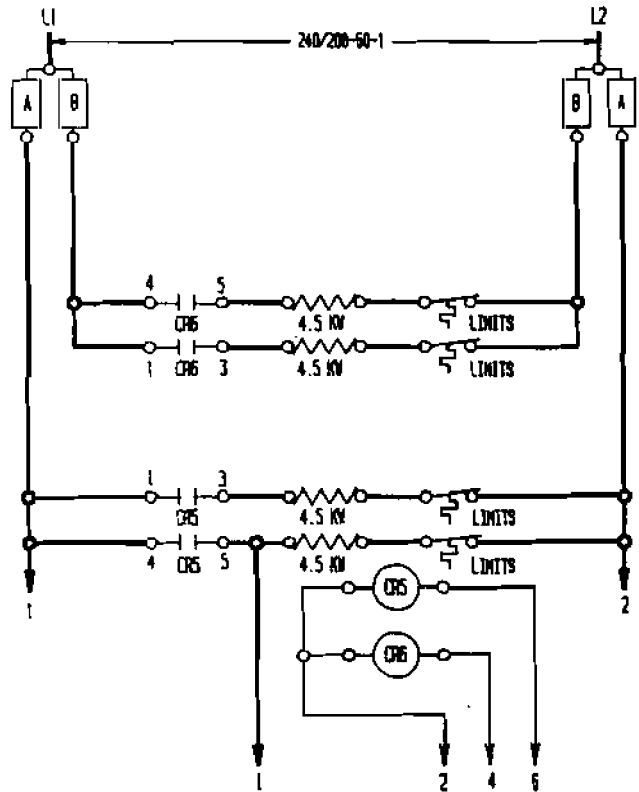


	FACTORY WIRING	FIELD WIRING
Low Voltage	---	---
High Voltage	---	---

USE COPPER OR ALUMINUM WIRE

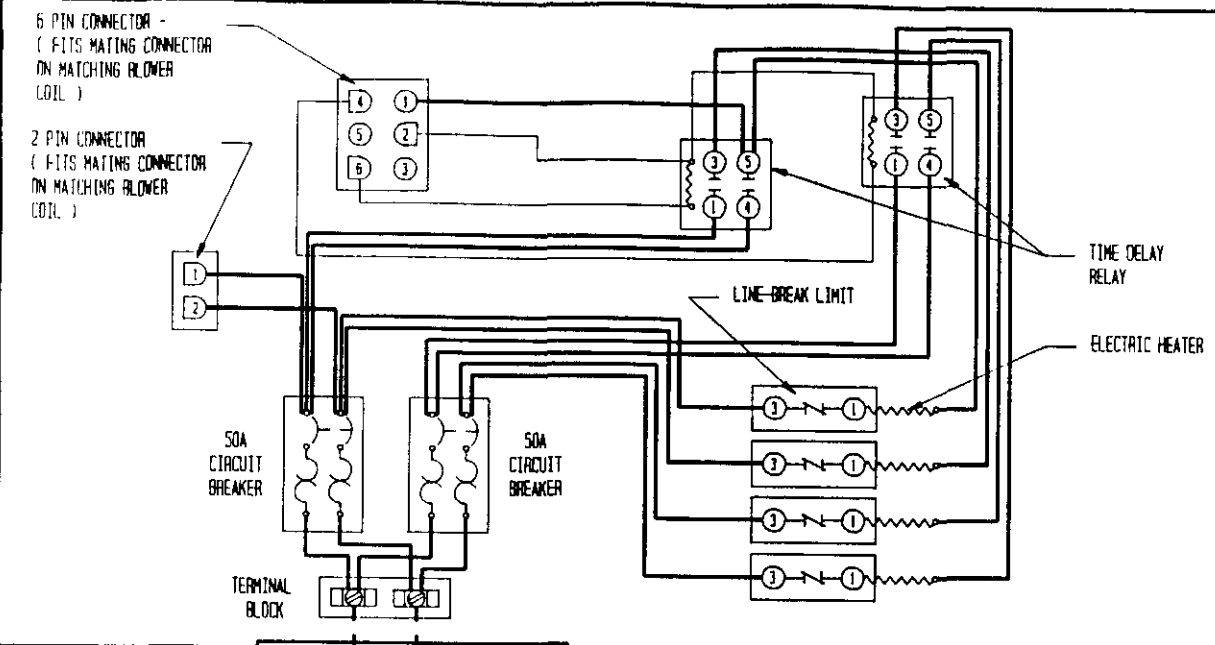
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# LADDER DIAGRAM



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240/208 - 60 - 1

	FACTORY WIRING	FIELD WIRING
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High Voltage	—————	—————

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# LADDER DIAGRAM

