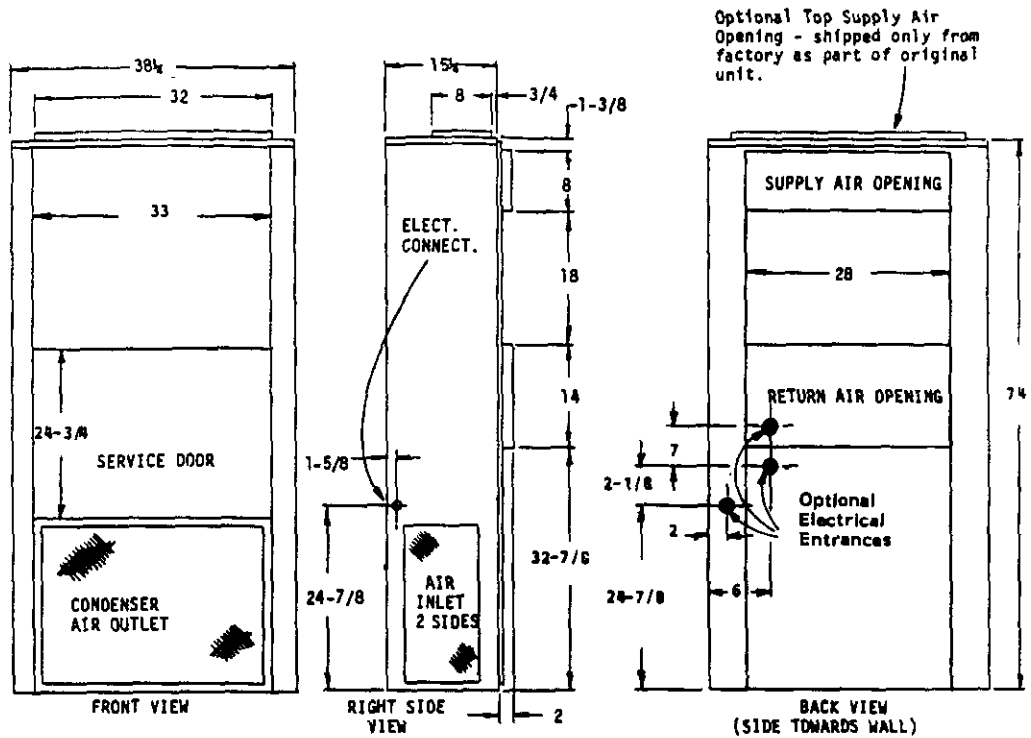


INSTALLATION INSTRUCTIONS

**WALL MOUNTED
PACKAGE AIR CONDITIONERS**

**MODELS
30WA6
36WA6**



ELECTRICAL INFORMATION									WIRING INFORMATION**	
Model	Rated Volts/Ph	Operating Voltage Range	Heater* KW	Max Unit Amps	No. Field Power Circuits	Internal Fuses Ckt. A/B	Required ① Overcurrent Protection	Min. Ckt. Ampacity Ckt. A/B	Field Power Wiring Ckt. A/B	Ground Wire Size Ckt. A/B
30WA6	230/208-1	197-253	0	16.9	1	60/30	35	23	10	10
			5	23	1		35	29	10	10
			10	43.8	1		60	55	6	10
			15	64.7	1		90	81	3	8
30WA6-B	230/208-3	187-253	0	15.4	1		30	19	10	10
			9	23.9	1		30	30	10	10
36WA6	230/208-1	197-253	0	24.3	1	60/30	45	30	10	10
			5	24.3	1		45	30	10	10
			10	43.8	1		60	56	4	10
			15	64.7	1		90	81	2	8
36WA6-B	230/208-3	187-253	0	17.8	1		30	22	10	10
			6	17.3	1		30	22	10	10
			9	23.9	1		35	31	8	10
			12	31.1	1		40	40	8	10
			15	38.4	1		50	50	6	10
36WA6-C	460-3	414-506	0	9.5	1		15	15	14	14
			6	9.5	1		15	15	14	14
			9	11.9	1		15	15	14	14
			12	15.5	1		20	20	12	12
			15	19.1	1		25	24	10	10

*Electric heaters are nominal Kw @ 240V or 480V.
 **Based on 60°C copper wire. Other wiring materials must be rated for marked "Minimum Circuit Ampacity" or greater. Not all models approved for aluminum wire.

① Time delay fuses or "HACR Type" circuit breakers must be used for 60 and smaller sizes. Standard fuses or circuit breakers are suitable for 70 and larger.

IMPORTANT

The equipment covered in this manual is to be installed by trained, experienced service and installation technicians. Any heat pump is more critical of proper operating, charge and an adequate duct system than a straight air conditioning unit. All duct work supply and return, must be properly sized for the design air flow requirement of the equipment. ACCA is an excellent guide to proper sizing. All duct work or portions thereof not in the conditioned space should be properly insulated in order to both conserve energy and prevent condensation or moisture damage.

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.

GENERAL

The refrigerant system is completely assembled and charged. All internal wiring is complete.

The unit is designed for use with or without duct work. Flanges are provided for attaching the supply and return ducts.

These instructions explain the recommended method to install the air cooled self-contained unit and the electrical wiring connections to the unit.

These instructions and any instructions packaged with any separate equipment required to make up the entire air conditioning system should be carefully read before beginning the installation. Note particularly "Starting Procedure" and any tags and/or labels attached to the equipment.

While these instructions are intended as a general recommended guide, they do not supersede any national and/or local codes in any way. Authorities having jurisdiction should be consulted before the installation is made.

INSTALLATION

Size of unit for a proposed installation should be based on heat loss calculation made according to methods of Air Conditioning Contractors of America (ACCA). The air duct should be installed in accordance with the Standards of the National Fire Protection Association for the Installation of Air Conditioning and Ventilating systems of Other Than Residence Type, NFPA No. 90A, and Residence Type Warm Air Heating and Air Conditioning Systems, NFPA No. 90B. Where local regulations are at a variance with instructions, installer should adhere to local codes.

DUCT WORK

Design the duct work according to methods given by the Air Conditioning Contractors of America. When duct runs through unheated spaces, it should be insulated with a minimum of one inch of insulation. Use insulation with a vapor barrier on the outside of the insulation. Flexible joints should be used to connect the duct work to the equipment in order to keep the noise transmission to a minimum.

A one-inch clearance to combustible material for the first three feet of duct attached to the outlet air frame is required. See page 5 for further details.

FILTER

A one inch throwaway filter is supplied with each unit. Filter slides into position making it easy to service. This filter can be serviced from the outside by removing the service door.

FRESH AIR INTAKE

All units are built with a fresh air inlet hole punched in the service panel. The fresh air damper assembly is shipped with each unit, and must be attached at the installation site. See Figure 1 for typical installation procedure.

The fresh air damper assembly is standard equipment with the unit because of the variety of state or local codes requiring fresh air capability.

All capacity, efficiency and cost of operation information as required for Department of Energy "Energyguide" Fact Sheets is based upon the fresh air blank-off plate in place and is recommended for maximum energy efficiency.

The blank-off plate is available upon request from the factory and is installed in place of the fresh air damper shipped with each unit.

WALL MOUNTING

1. Two holes, the size of the supply and return air openings must be cut through the wall as shown in Figure 2.
2. On wood-frame walls, the wall construction must be strong and rigid enough to carry the weight of the unit without transmitting any unit vibration.
3. Concrete block walls must be thoroughly inspected to insure that they are capable of carrying the weight of the installing unit.
4. Ducts through the walls must be insulated and all joints taped or sealed to prevent air or moisture entering the wall cavity.
5. Some installations may not require any return air duct. It is recommended that on this type of installation the filter grille be located in the wall. Filters must be of sufficient size to allow a maximum velocity of 400 FPM.

NOTE: If no return air duct is used, applicable installation codes may limit this cabinet to installation only in a single story structure.

WIRING - MAIN POWER

Refer to the unit rating plate for wire sizing information and maximum fuse or "HACR Type" circuit breaker size. Each outdoor unit is marked with a "Minimum Circuit Ampacity." This means that the field wiring used must be sized to carry that amount of current. Depending on the installed Kw of electric heat, there may be two field power circuits required. If this is the case, the unit serial plate will so indicate. Some models are suitable only for connection with copper wire, while others can be wired with either copper or aluminum wire. Each unit and/or wiring diagram will be marked "Use Copper Conductors Only" or "Use Copper or Aluminum Conductors." These instructions MUST BE adhered to. Refer to the National Electrical Code for complete current carrying capacity data on the various insulation grades of wiring material.

The electrical data lists fuse and wire sizes (60°C copper) for all models, including the most commonly used heater sizes. Also shown are the number of field power circuits required for the various models with heaters.

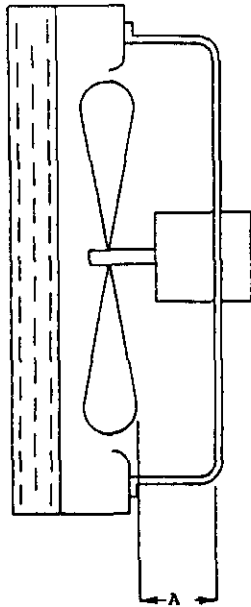
The unit rating plate lists a "Maximum Time Delay Relay Fuse" or "HACR Type" circuit breaker that is to be used with the equipment. The correct size must be used for proper circuit protection and also to assure that there will be no nuisance tripping due to the momentary high starting current of the compressor motor.

Field conduit connections must be to the control box and not terminate at the cabinet.

FAN BLADE SETTING DIMENSIONS

Shown in the drawing below are the correct fan blade setting dimensions for proper air delivery across the outdoor coil.

Any service work requiring removal or adjustment in the fan and/or motor area will require that the dimensions below be checked and blade adjusted in or out on the motor shaft accordingly.



MODEL	DIM. A
30WA6	1/2
36WA6	3/4

REFRIGERANT CHARGE

The correct system R-22 charge is shown on the unit rating plate. Optimum unit performance will occur with a refrigerant charge resulting in a suction line temperature (6" from compressor) as shown in the following table:

Model	Rated Airflow	95°F OD Temp.	82°F OD Temp.
30WA6	1140	56 - 58	66 - 68
36WA6	1185	44 - 47	57 - 59

The above suction line temperatures are based upon 80°F dry bulb/67°F wet bulb (50% R.H.) temperature and rated airflow across the evaporator during cooling cycle.

INDOOR BLOWER PERFORMANCE CFM—DRY COIL WITH FILTER		
E.S.P. Inches H ₂ O	Models 30WA6-36WA6	
	Low	High
.0	970	1435
.1	925	1350
.2	900	1260
.3		1150
.4		1050
.5		980

PRESSURE SERVICE PORTS

High and low pressure service ports are installed on all units so that the system operating pressures can be observed. Pressure curves can be found later in the manual covering all models on both cooling and heating cycles. It is imperative to match the correct pressure curve to the unit by model number.

RATED CFM AND E.S.P. (WET COIL--COOLING)			
Model	Rated CFM *	Rated E.S.P. *	Recommended Airflow Range
30WA6	1140	.17	930 - 1300
36WA6	1185	.15	930 - 1350

*Rated CFM and ESP on high speed tap.

IMPORTANT INSTALLER NOTE

For improved start-up performance wash the indoor coil with a dishwasher detergent.

CRANKCASE HEATERS

All units are provided with some form of compressor crankcase heat. Some single phase units utilize the compressor motor start winding in series with a portion of the run capacitor to generate heat within the compressor shell to prevent liquid refrigerant migration.

Some three phase units utilize a wraparound type of crankcase heater that warms the compressor oil from the outside.

Some single and three phase models have an insertion well-type heater located in the lower section of the compressor housing. This is a self-regulating type heater that draws only enough power to maintain the compressor at a safe temperature.

Some form of crankcase heat is essential to prevent liquid refrigerant from migrating to the compressor, causing oil pump out on compressor start-up and possible valve failure due to compressing a liquid.

Refer to unit wiring diagram to find exact type of crankcase heater used.

The following decal is affixed to all outdoor units detailing start-up procedure. This is very important. Please read carefully.

IMPORTANT

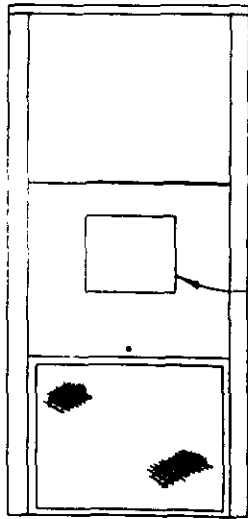
THESE PROCEDURES MUST BE FOLLOWED AT INITIAL START-UP AND AT ANY TIME POWER HAS BEEN REMOVED FOR 12 HOURS OR LONGER.

- TO PREVENT COMPRESSOR DAMAGE WHICH MAY RESULT FROM THE PRESENCE OF LIQUID REFRIGERANT IN THE COMPRESSOR CRANKCASE
1. MAKE CERTAIN THE ROOM THERMOSTAT IS IN THE "OFF" POSITION (THE COMPRESSOR IS NOT TO OPERATE).
2. APPLY POWER BY CLOSING THE SYSTEM DISCONNECT SWITCH THIS ENERGIZES THE COMPRESSOR HEATER WHICH EVAPORATES THE LIQUID REFRIGERANT IN THE CRANKCASE.
3. ALLOW 4 HOURS OR 90 MINUTES PER POUND OF REFRIGERANT IN THE SYSTEM AS NOTED ON THE UNIT RATING PLATE, WHICHEVER IS GREATER.
4. AFTER PROPERLY ELAPSED TIME THE THERMOSTAT MAY BE SET TO OPERATE THE COMPRESSOR.
5. EXCEPT AS REQUIRED FOR SAFETY WHILE SERVICING -- DO NOT OPEN SYSTEM DISCONNECT SWITCH.

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UNIT MODELS

20WA
24WA
18WH
24WH

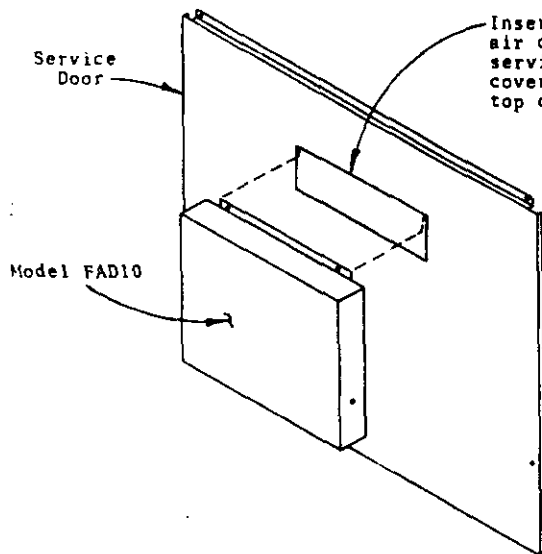
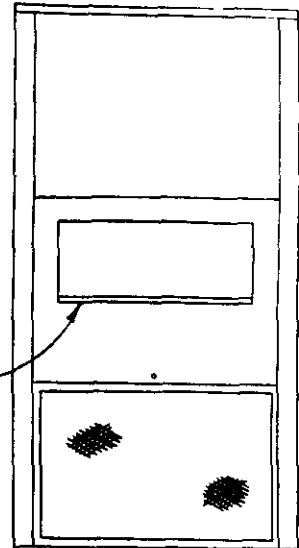


Model FAD10
Fresh Air Cover
With Adjustable
Damper

UNIT MC

30WA
36WA
30WH
36WH
42WA
49WA
48WH

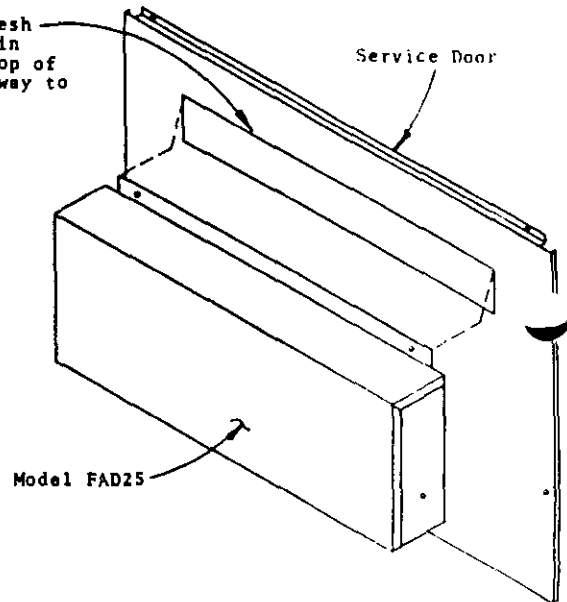
MODEL FAD25
Fresh Air Cover
With Adjustable
Damper



Service Door

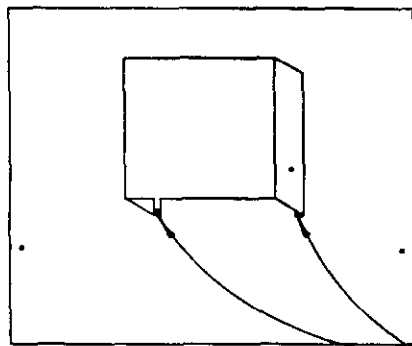
Model FAD10

Insert top flange of fresh air cover into opening in service door and push top of cover assembly all the way to top of opening.



Service Door

Model FAD25



Secure bottom of Fresh Air Cover Assembly with two screws.

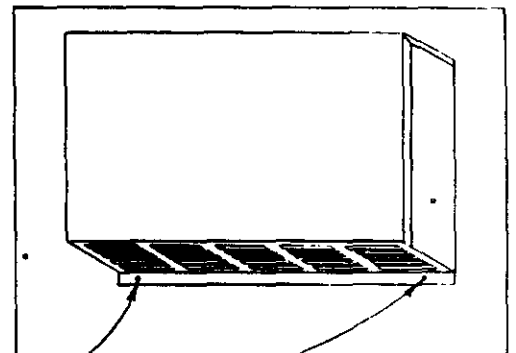
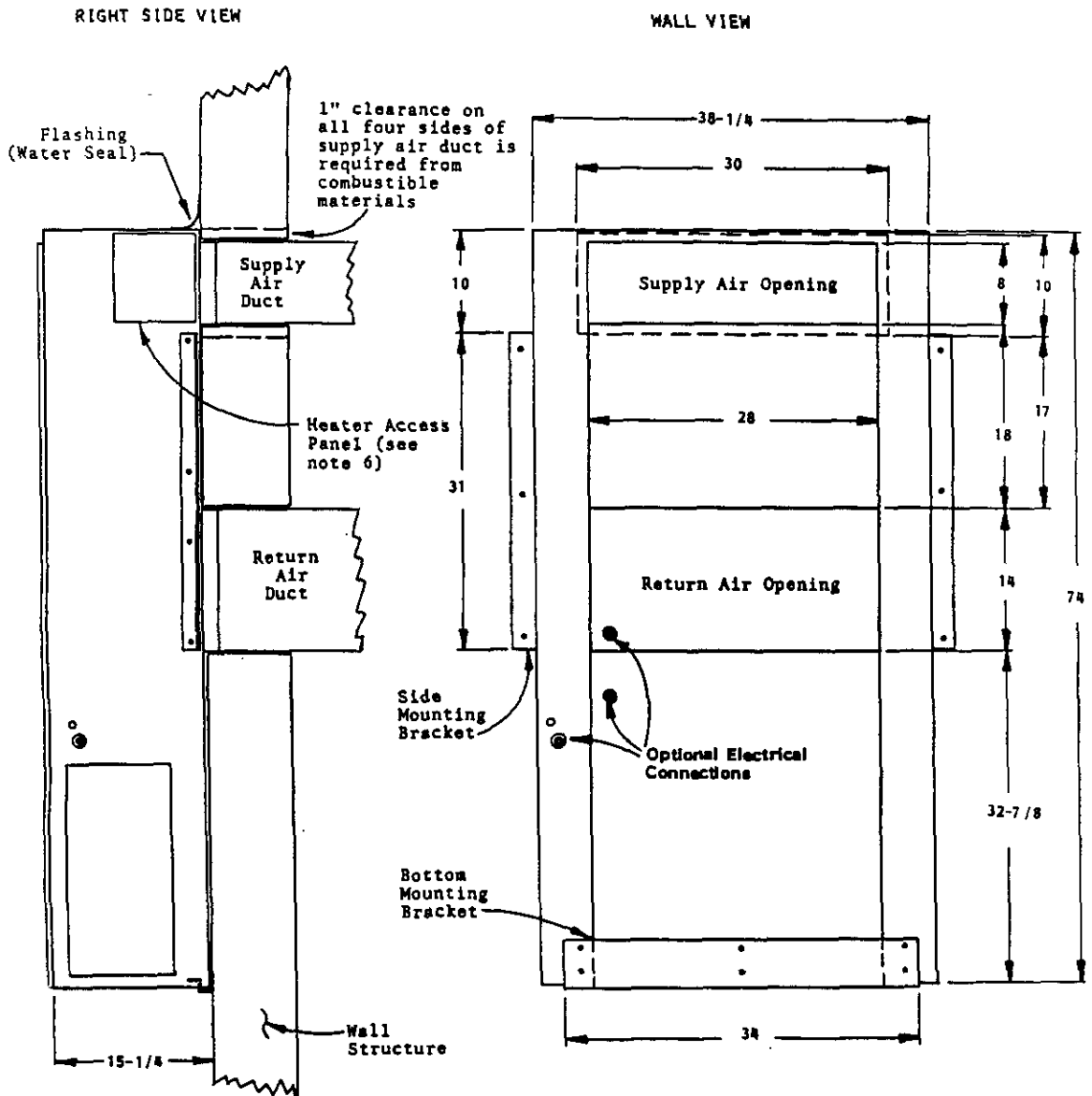


FIGURE 1

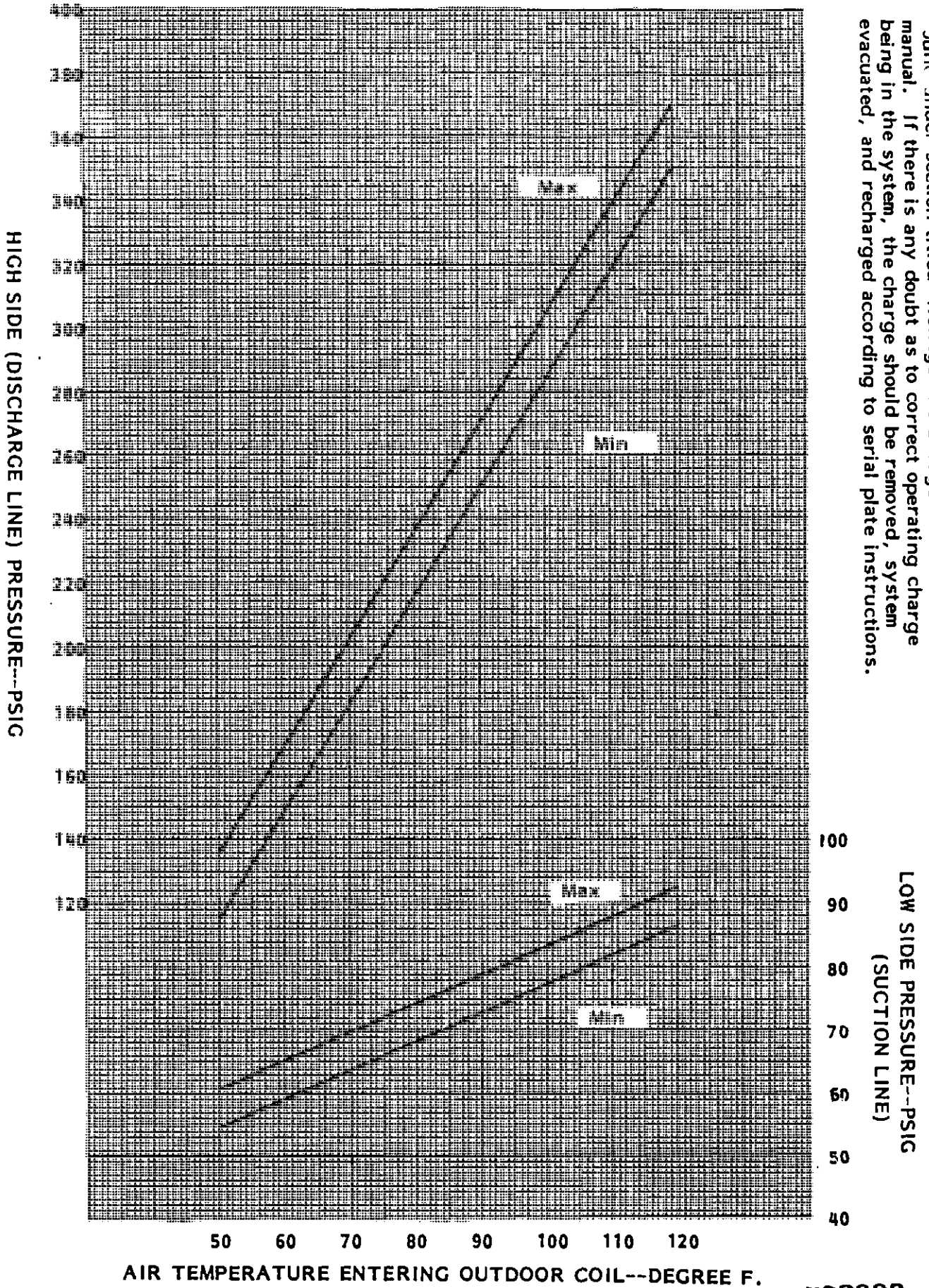
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FIGURE 2

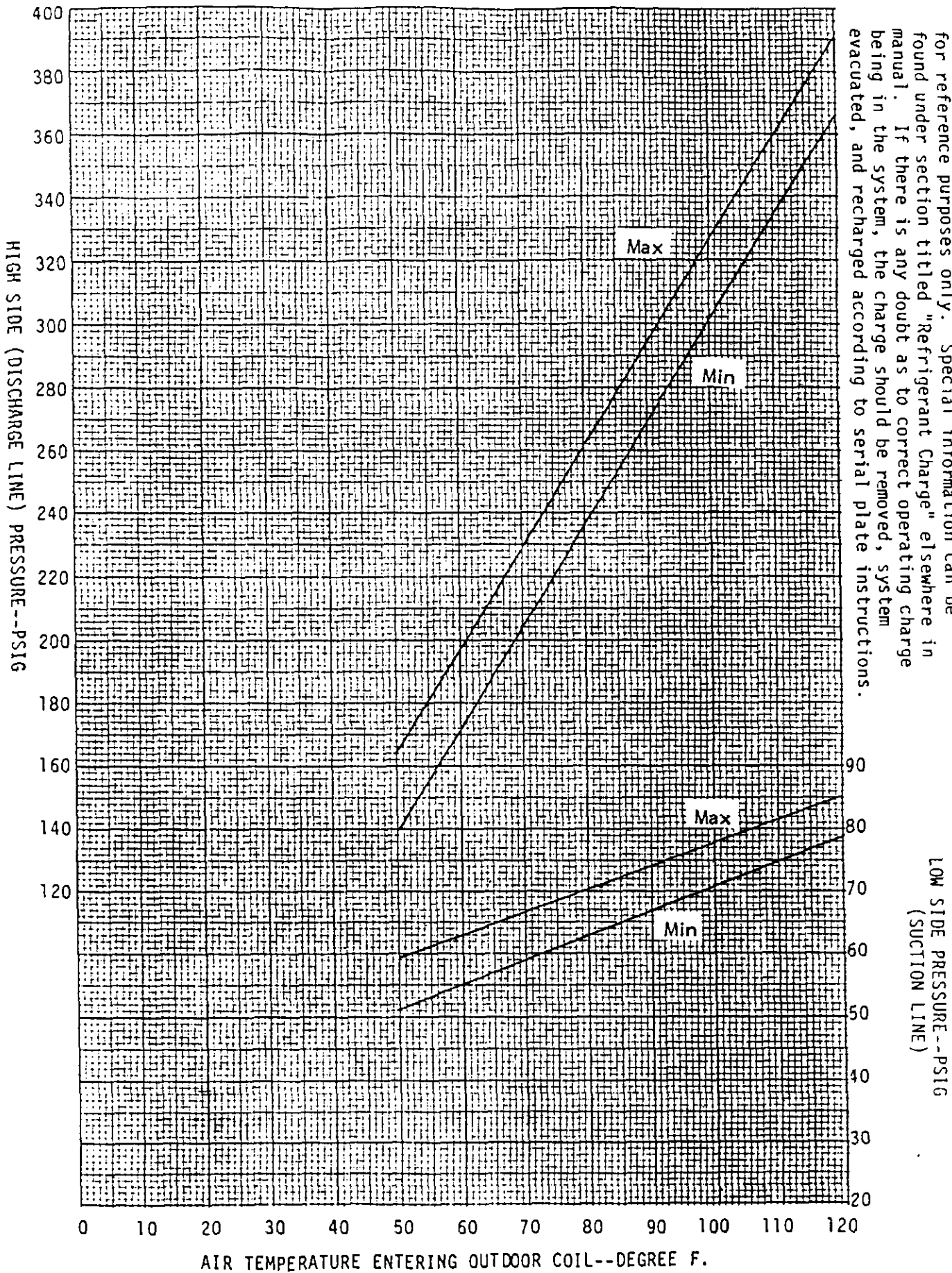


MOUNTING INSTRUCTIONS

1. These units are secured by wall mounting brackets which secure the unit to the outside wall surface at both sides and at the bottom.
2. The unit itself is suitable for "0" inch clearance, but the supply air duct flange and the first few feet of supply air duct require 1 inch clearance to combustible material. If combustible wall, use 30"x10" dimensions for sizing. If non-combustible, use 28"x8" dimensions.
3. After the wall opening positions have been selected, lay out the position for the bottom and side brackets. Fasten the brackets securely to the wall (type of fasteners will depend on wall construction).
4. Be sure to observe the 10" dimension when attaching the side brackets. This will assure that no screws are driven into the unit sides damaging any internal parts. One-half inch sheet metal screws are recommended.
5. For additional mounting rigidity, the return air and supply air (depending upon wall construction) frames or collars can be drilled and screwed or welded to the structural wall itself. Be sure to observe required clearance if combustible wall.
6. Maintain 30 inches minimum clearance on right side of unit to allow access to heat strip.



Curves are based upon 60°-75°, 67°-73° F. A. emp. and M (airflow) across the evaporator coil and should be reference purposes only. Special information can be found under section titled "Refrigerant Charge" elsewhere in manual. If there is any doubt as to correct operating charge being in the system, the charge should be removed, system evacuated, and recharged according to serial plate instructions.



These curves are based upon 80°DB, 67°WB R.A. Temp. and Rated CFM (airflow) across the evaporator coil and should be used for reference purposes only. Special information can be found under section titled "Refrigerant Charge" elsewhere in manual. If there is any doubt as to correct operating charge being in the system, the charge should be removed, system evacuated, and recharged according to serial plate instructions.

PARTS LIST
SINGLE PACKAGE AIR CONDITIONERS

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Part No.	Description	30WA6-A00N	30WA6-A05N	30WA6-A10N	30WA6-A15N	30WA6-A00C	30WA6-A05C	30WA6-A10C	30WA6-A15C	30WA6-A00T	30WA6-A05T	30WA6-A10T	30WA6-A15T
5152-030	Blower Housing 9-7	x	x	x	x	x	x	x	x	x	x	x	x
5152-028	Blower Wheel 9-7	x	x	x	x	x	x	x	x	x	x	x	x
5152-029	Blower Wheel 9-7	x	x	x	x	x	x	x	x	x	x	x	x
8552-032	Capacitor 35/370V	x	x	x	x	x	x	x	x	x	x	x	x
8552-002	Capacitor 5/370V	2	2	2	2	2	2	2	2	2	2	2	2
5811-008	Capillary Tube - Cool	2	2	2	2	2	2	2	2	2	2	2	2
8000-099	Compressor H23B283ABCA	x	x	x	x	x	x	x	x	x	x	x	x
5051-035	Condenser Coil	x	x	x	x	x	x	x	x	x	x	x	x
8401-007	Contactora - 1P25A	x	x	x	x	x	x	x	x	x	x	x	x
8401-006	Contactora - Heat 2P18A		1	1	2		1	1	2		1	1	2
8615-009	Circuit Breaker					1	1						
8615-016	Circuit Breaker							1	1				
8615-013	Circuit Breaker								1				
5060-037	Evaporator Coil	x	x	x	x	x	x	x	x	x	x	x	x
5151-032	Fan Blade F10H9.5-2022 ccw	x	x	x	x	x	x	x	x	x	x	x	x
7004-008	Filter 15x30-5/8	x	x	x	x	x	x	x	x	x	x	x	x
8614-006	Fuse - Heater 30A				2								2
8614-022	Fuse - Compressor 60A				2								2
8614-017	Fuse Block 15kw				1								1
8604-042	Heat Strip 5kw		1				1				1		
8604-044	Heat Strip 10kw			1				1				1	
8604-047	Heat Strip 15kw				1				1				1
8402-031	Limit Switch 150°		x	x	x		x	x	x		x	x	x
8105-029	Motor - Blower 1/3 hp	x	x	x	x	x	x	x	x	x	x	x	x
8200-031	Motor Mount - Blower	x	x	x	x	x	x	x	x	x	x	x	x
8200-001	Motor Mount - Fan	x	x	x	x	x	x	x	x	x	x	x	x
8103-016	Motor - Fan 1/5 hp	x	x	x	x	x	x	x	x	x	x	x	x
8201-009	Relay - Blower	x	x	x	x	x	x	x	x	x	x	x	x
5210-004	Strainer	x	x	x	x	x	x	x	x	x	x	x	x
8607-018	Terminal Board 24V	x	x	x	x	x	x	x	x	x	x	x	x
8607-013	Terminal Block 230V 2 pole		x	x							x	x	
8402-030	Thermal Cut-off										1	2	3
8407-034	Transformer	x	x	x	x	x	x	x	x	x	x	x	x
8402-032	Thermal Cutoff		1	2	3		1	2	3				
4008-110	Wiring Diagram	x								x			
4008-112	Wiring Diagram					x							
4008-120	Wiring Diagram		x								x		
4008-122	Wiring Diagram						x						
4008-130	Wiring Diagram			x								x	
4008-132	Wiring Diagram							x					
4008-140	Wiring Diagram				x								x
4008-142	Wiring Diagram								x				

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PARTS LIST
SINGLE PACKAGE AIR CONDITIONERS

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Part No.	Description	30WA 6- B00N	30WA 6- B09N	30WA 6- B00C	30WA 6- B09C	30WA 6- B00T	30WA 6- B09T	30WA 6- C00N	30WA 6- C09N	30WA 6- C00C	30WA 6- C09C
5152-030	Blower Housing 9-7	x	x	x	x	x	x	x	x	x	x
5152-028	Blower Wheel 9-7	x	x	x	x	x	x	x	x	x	x
5152-029	Blower Wheel 9-7	x	x	x	x	x	x	x	x	x	x
8552-002	Capacitor 5/370V	2	2	2	2	2	2	2	2	2	2
5811-008	Capillary Tube - Cool	2	2	2	2	2	2	2	2	2	2
8000-053	Compressor CRG3-0275-TF5	x	x	x	x	x	x				
8000-054	Compressor CRG3-0250-TFD							x	x	x	x
5051-035	Condenser Coil	x	x	x	x	x	x	x	x	x	x
8401-002	Contacto - 3P25A	1	1	1	1	1	1	1	2	1	2
8401-006	Contacto - Heat 2P18A		1		1		1				
8615-018	Circuit Breaker			x	x						
8615-023	Circuit Breaker									x	x
5060-037	Evaporator Coil	x	x	x	x	x	x	x	x	x	x
5151-032	Fan Blade F10H9.5-2022 ccw	x	x	x	x	x	x	x	x	x	x
7004-008	Filter 15x30-5/8	x	x	x	x	x	x	x	x	x	x
8604-048	Heat Strip 9kw		x		x		x				
8604-072	Heat Strip 9kw								x		x
8402-031	Limit Switch 155°		x		x		x		x		x
8105-029	Motor - Blower 1/3 hp	x	x	x	x	x	x				
8105-033	Motor - Blower 1/3 hp							x	x	x	x
8200-031	Motor Mount Blower	x	x	x	x	x	x	x	x	x	x
8103-016	Motor - Fan 1/5 hp	x	x	x	x	x	x				
8103-014	Motor - Fan 1/5 hp							x	x	x	x
8200-001	Motor Mount - Fan	x	x	x	x	x	x	x	x	x	x
8201-009	Relay - Blower	x	x	x	x	x	x				
8201-032	Relay - Blower							x	x	x	x
8607-015	Phenolic Insulator							x	x		
5210-004	Strainer	x	x	x	x	x	x	x	x	x	x
8607-018	Terminal Board 24V	x	x	x	x	x	x	x	x	x	x
8607-017	Terminal Block 230V 2 pole							x	x	x	x
8607-014	Terminal Block 3 pole	x	x			x	x	x	x		
8402-032	Thermal Cutoff		3		3				3		3
8402-030	Thermal Cutoff						3				
8407-034	Transformer	x	x	x	x	x	x				
8407-027	Transformer							x	x	x	x
4008-210	Wiring Diagram	x				x					
4008-211	Wiring Diagram			x							
4008-220	Wiring Diagram		x				x				
4008-221	Wiring Diagram				x						
4008-310	Wiring Diagram							x			
4008-311	Wiring Diagram									x	
4008-320	Wiring Diagram								x		
4008-321	Wiring Diagram										x

PARTS LIST
SINGLE PACKAGE AIR CONDITIONERS

1/8E

Part No.	Description	36WA6-A00N	36WA6-A05N	36WA6-A08N	36WA6-A10N	36WA6-A15N	36WA6-A00C	36WA6-A05C	36WA6-A08C	36WA6-A10C	36WA6-A15C	36WA6-A00T	36WA6-A05T	36WA6-A10T	36WA6-A15T	36WA6-A00H	36WA6-A10H
5152-030	Blower Housing 9-7	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x
5152-028	Blower Wheel 9-7	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x
5152-029	Blower Wheel 9-7	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x
8552-028	Capacitor 35/440V	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x
8552-002	Capacitor 5/370V	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2
5811-033	Capillary Tube - Cool	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2
8000-058	Compressor CRJ3-0300	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x
5051-035	Condenser Coil	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x
8401-007	Contacto - 1P25A	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x
8401-006	Contacto-Heat 2P18A		1	1	1	2		1	1	1	2		1	1	2		1
8615-010	Circuit Breaker						1	1	1								
8615-016	Circuit Breaker									1	1						
8615-013	Circuit Breaker										1						
5060-037	Evaporator Coil	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x
5151-032	Fan Blade F10H 9.5	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x
7004-008	Filter 15x30-5/8	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x
8614-006	Fuse - Heater 30A					2									2		
8614-022	Fuse - Comp. 60A					2									2		
8614-017	Fuse Block 15kw					1									1		
8604-042	Heat Strip 5kw		1					1					1				
8604-044	Heat Strip 10kw				1					1				1			1
8604-047	Heat Strip 15kw					1					1				1		
8604-043	Heat Strip 8kw			1				1									
8402-031	Limit Switch 155°		x	x	x	x		x	x	x	x		x	x	x		x
8105-029	Motor - Blower 1/3 hp	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x
8103-019	Motor - Fan 1/5 hp	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x
8200-001	Motor Mount - Fan	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x
8200-031	Motor Mount - Blower	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x
8201-009	Relay - Blower	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x
5210-004	Strainer	x	x	x	x	x	x	x	x	x	x	x	x	x	x		
8607-018	Terminal Board 24V	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x
8607-013	Terminal Block 230V		x	x	x								x	x			x
8402-030	Thermal Cutoff											1	2	3			
8402-032	Thermal Cutoff		1	2	2	3		1	2	2	3						2
8407-034	Transformer	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x
4009-110	Wiring Diagram	x										x				x	
4009-111	Wiring Diagram						x										
4009-120	Wiring Diagram		x										x				
4009-121	Wiring Diagram							x									
4009-130	Wiring Diagram			x	x									x			x
4009-131	Wiring Diagram							x	x								
4009-140	Wiring Diagram					x									x		
4009-141	Wiring Diagram										x						

502007

PARTS LIST
SINGLE PACKAGE AIR CONDITIONERS

1/88

Part No.	Description	36WA6-B00N	36WA6-B06N	36WA6-B09N	36WA6-B12N	36WA6-B15N	36WA6-B00C	36WA6-B06C	36WA6-B09C	36WA6-B12C	36WA6-B15C	36WA6-B00T	36WA6-B09T	36WA6-B15T	36WA6-B00H	36WA6-B09H
5152-030	Blower Housing 9-7	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x
5152-028	Blower Wheel 9-7	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x
5152-029	Blower Wheel 9-7	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x
8552-002	Capacitor 5/370V	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2
5811-033	Capillary Tube - Cool	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2
8000-059	Compressor CRJ3-0300-TF5	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x
5051-035	Condenser Coil	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x
8401-002	Contactora - 3P25A	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x
8401-006	Contactora - Heat 2P18A		1	1	2	2		1	1	2	2		1	2		1
8615-019	Circuit Breaker						1	1	1							
8615-020	Circuit Breaker									1						
8615-007	Circuit Breaker										1					
5060-037	Evaporator Coil	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x
5151-032	Fan Blade F10H9.5-2022 ccw	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x
7004-008	Filter 15x30-5/8	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x
8604-049	Heat Strip 6kw		1					1								
8604-048	Heat Strip 9kw			1					1				1			1
8604-046	Heat Strip 12kw				1					1						
8604-047	Heat Strip 15kw					1					1			1		
8402-031	Limit Switch 155°		x	x	x	x		x	x	x	x		x	x		x
8105-029	Motor - Blower 1/3 hp	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x
8103-019	Motor - Fan 1/5 hp	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x
8200-001	Motor Mount - Fan	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x
8200-031	Motor Mount - Blower	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x
8201-009	Relay - Blower	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x
5210-004	Strainer	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x
8607-018	Terminal Board 24V	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x
8607-014	Terminal Block 3 pole	x	x	x	x	x						x	x	x	x	x
8402-032	Thermal Cutoff		2	2	3	3		2	2	3	3					2
8402-030	Thermal Cutoff												2	3		
8407-034	Transformer	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x
4009-210	Wiring Diagram	x										x			x	
4009-211	Wiring Diagram						x									
4009-220	Wiring Diagram		x	x									x			x
4009-221	Wiring Diagram							x	x							
4009-230	Wiring Diagram				x	x								x		
4009-231	Wiring Diagram									x	x					

PARTS LIST
SINGLE PACKAGE AIR CONDITIONERS

1/88

Part No.	Description	36WA6-C00N	36WA6-C06N	36WA6-C09N	36WA6-C12N	36WA6-C15N	36WA6-C00C	36WA6-C06C	36WA6-C09C	36WA6-C12C	36WA6-C15C	36WA6-C00H	36WA6-C12H
5152-030	Blower Housing	x	x	x	x	x	x	x	x	x	x	x	x
5152-028	Blower Wheel 9-7	x	x	x	x	x	x	x	x	x	x	x	x
5152-029	Blower Wheel 9-7	x	x	x	x	x	x	x	x	x	x	x	x
8552-002	Capacitor 5/370V	2	2	2	2	2	2	2	2	2	2	2	2
5811-033	Capillary Tube - Cool	2	2	2	2	2	2	2	2	2	2	2	2
8000-060	Compressor CRJ3-0300	x	x	x	x	x	x	x	x	x	x	x	x
5051-035	Condenser Coil	x	x	x	x	x	x	x	x	x	x	x	x
8401-002	Contactors - 3P25A	1	2	2	2	2	1	2	2	2	2	1	2
8615-023	Circuit Breaker						1	1	1				
8615-024	Circuit Breaker									1			
8615-025	Circuit Breaker										1		
5060-037	Evaporator Coil	x	x	x	x	x	x	x	x	x	x	x	x
5151-032	Fan Blade F10H9.5-2022	x	x	x	x	x	x	x	x	x	x	x	x
7004-008	Filter 15x30-5/8	x	x	x	x	x	x	x	x	x	x	x	x
8604-079	Heat Strip 6kw		1					1					
8604-072	Heat Strip 9kw			1					1				
8604-051	Heat Strip 12kw				1					1			1
8604-052	Heat Strip 15kw					1					1		
8402-031	Limit Switch 155°		x	x	x	x		x	x	x	x		x
8105-033	Motor - Blower 1/3 hp	x	x	x	x	x	x	x	x	x	x	x	x
8103-014	Motor - Fan 1/5 hp	x	x	x	x	x	x	x	x	x	x	x	x
8200-001	Motor Mount - Fan	x	x	x	x	x	x	x	x	x	x	x	x
8200-031	Motor Mount - Blower	x	x	x	x	x	x	x	x	x	x	x	x
8201-032	Relay - Blower	x	x	x	x	x	x	x	x	x	x	x	x
8607-015	Phenolic Insulator	x	x	x	x	x						x	x
5210-004	Strainer	x	x	x	x	x	x	x	x	x	x	x	x
8607-018	Terminal Board 24V	x	x	x	x	x	x	x	x	x	x	x	x
8607-017	Terminal Block 230V	x	x	x	x	x	x	x	x	x	x	x	x
8607-014	Terminal Block 3 pole	x	x	x	x	x						x	x
8402-032	Thermal Cutoff		2	2	3	3		2	2	3	3		3
8407-027	Transformer	x	x	x	x	x	x	x	x	x	x	x	x
4009-310	Wiring Diagram	x										x	
4009-311	Wiring Diagram						x						
4009-320	Wiring Diagram		x	x									
4009-321	Wiring Diagram						x	x					
4009-330	Wiring Diagram				x	x							x
4009-331	Wiring Diagram								x	x			

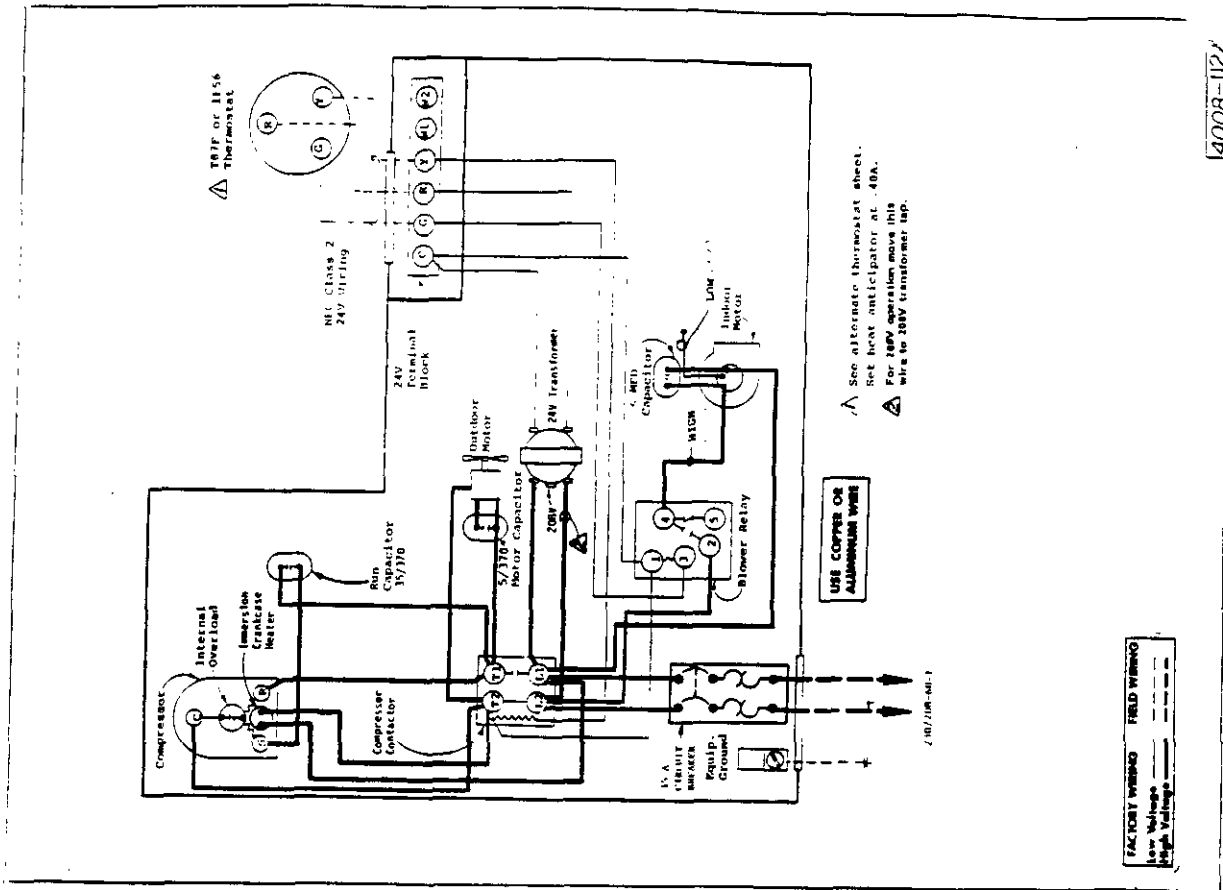
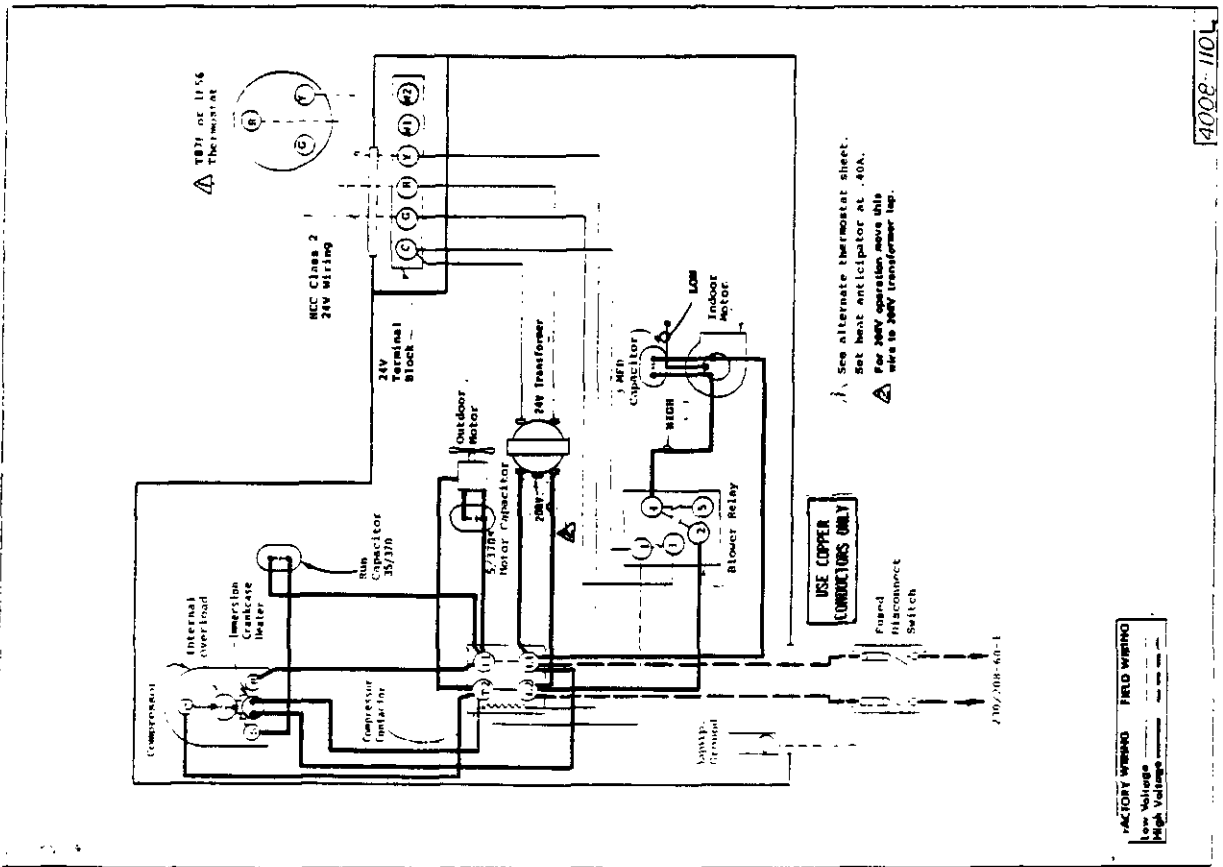
502009

SUPPLEMENTAL PARTS LIST FOR
HOT GAS BYPASS UNITS

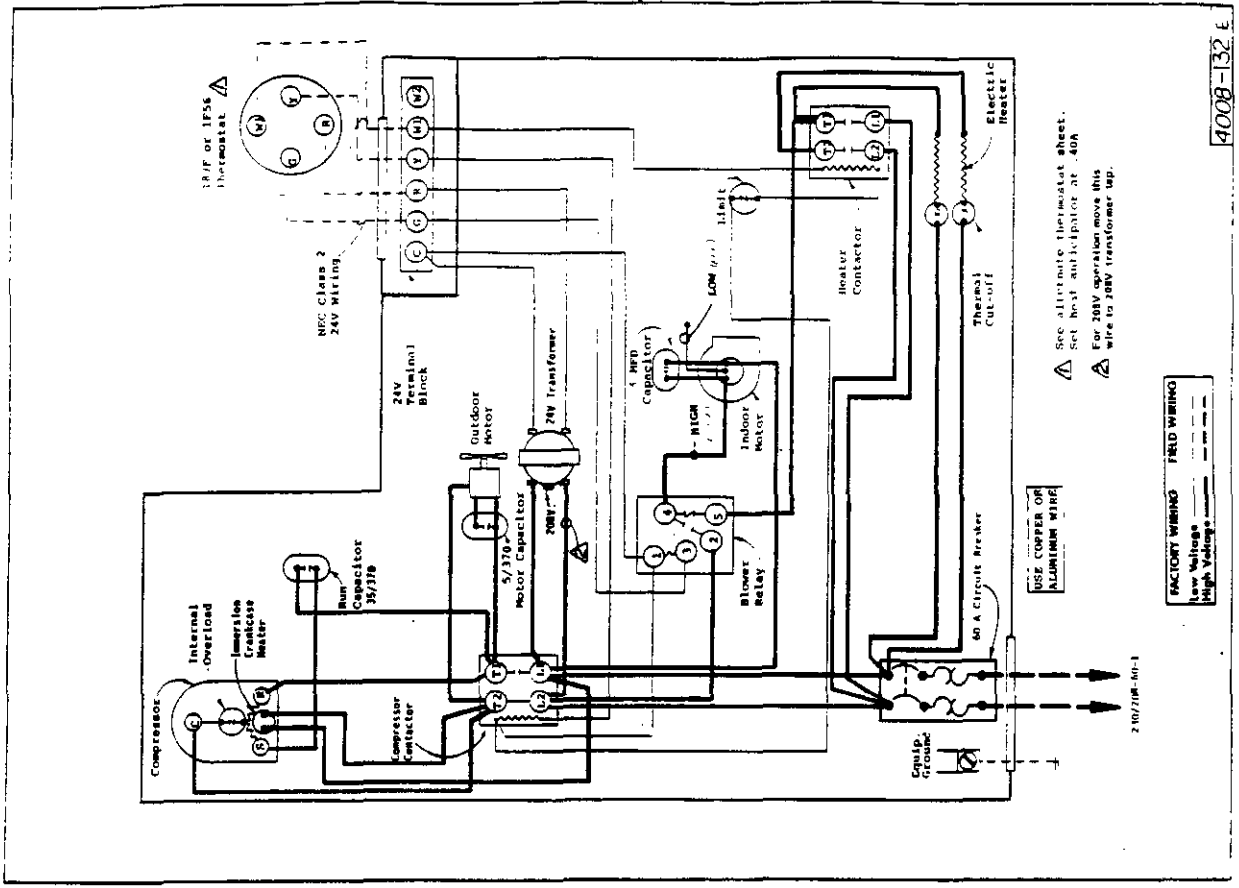
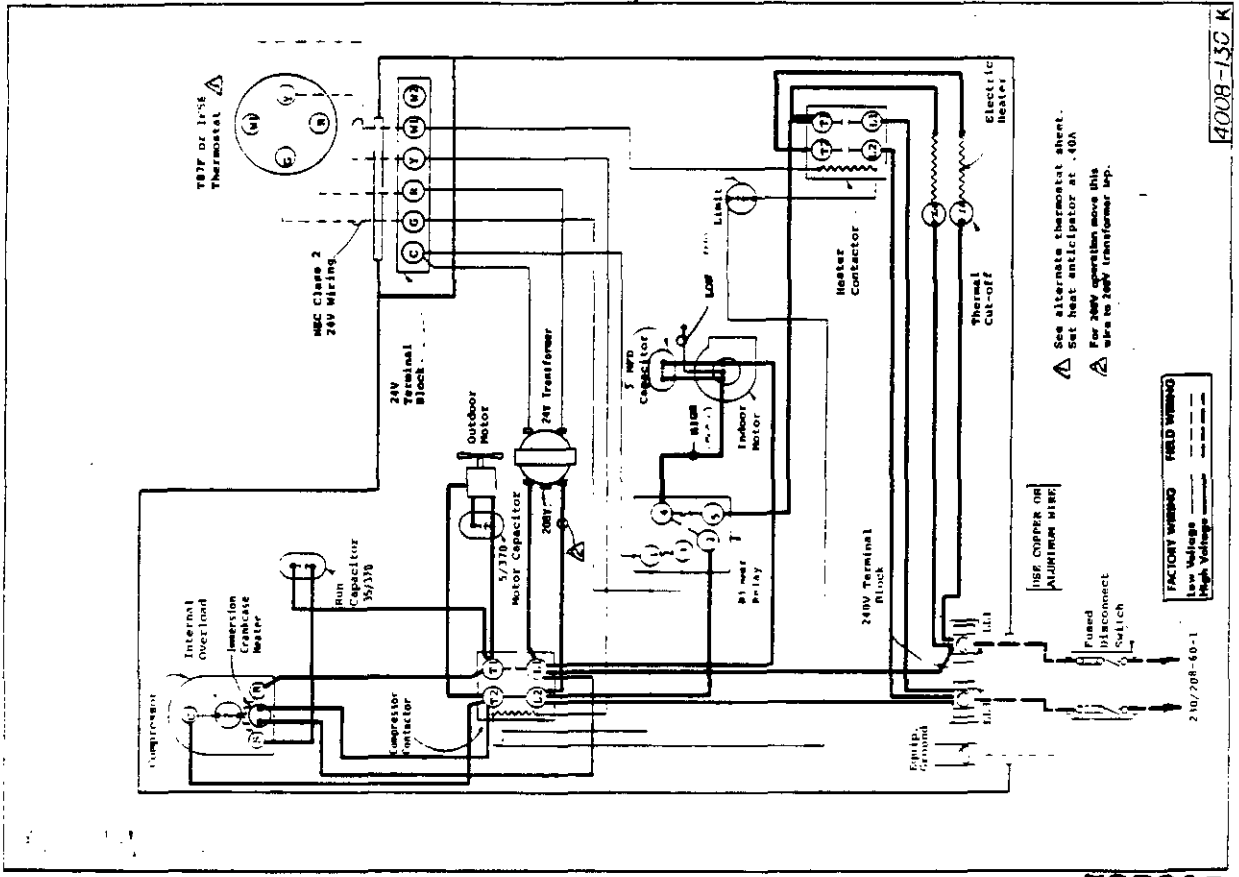
1/88

Part No.	Description	36WA
5651-039	TXV Expansion Valve	x
5651-026	Distributor	x
5651-064	Hot Gas Bypass Valve	x
5651-015	Head Pressure Control Valve	x
5651-016	Pressure Differential Valve	x
5203-004	Receiver	x
5651-051	Manual Shutoff Valve	x
5201-001	Filter Drier	x
5202-004	Accumulator	x
5201-014	Sight Glass	x

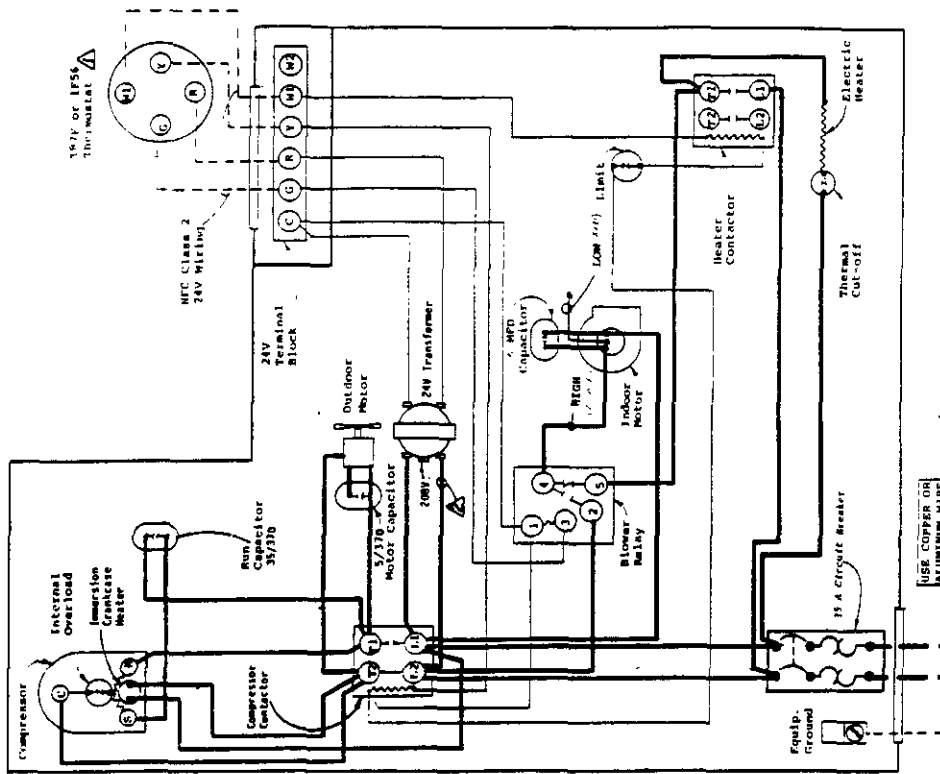
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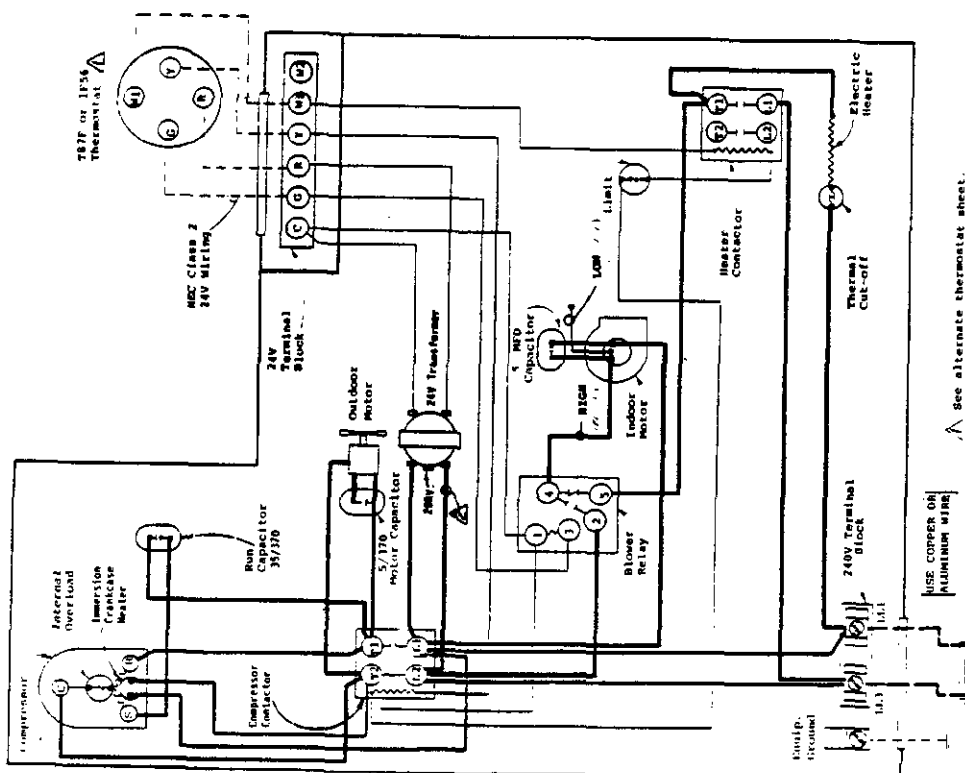
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502017

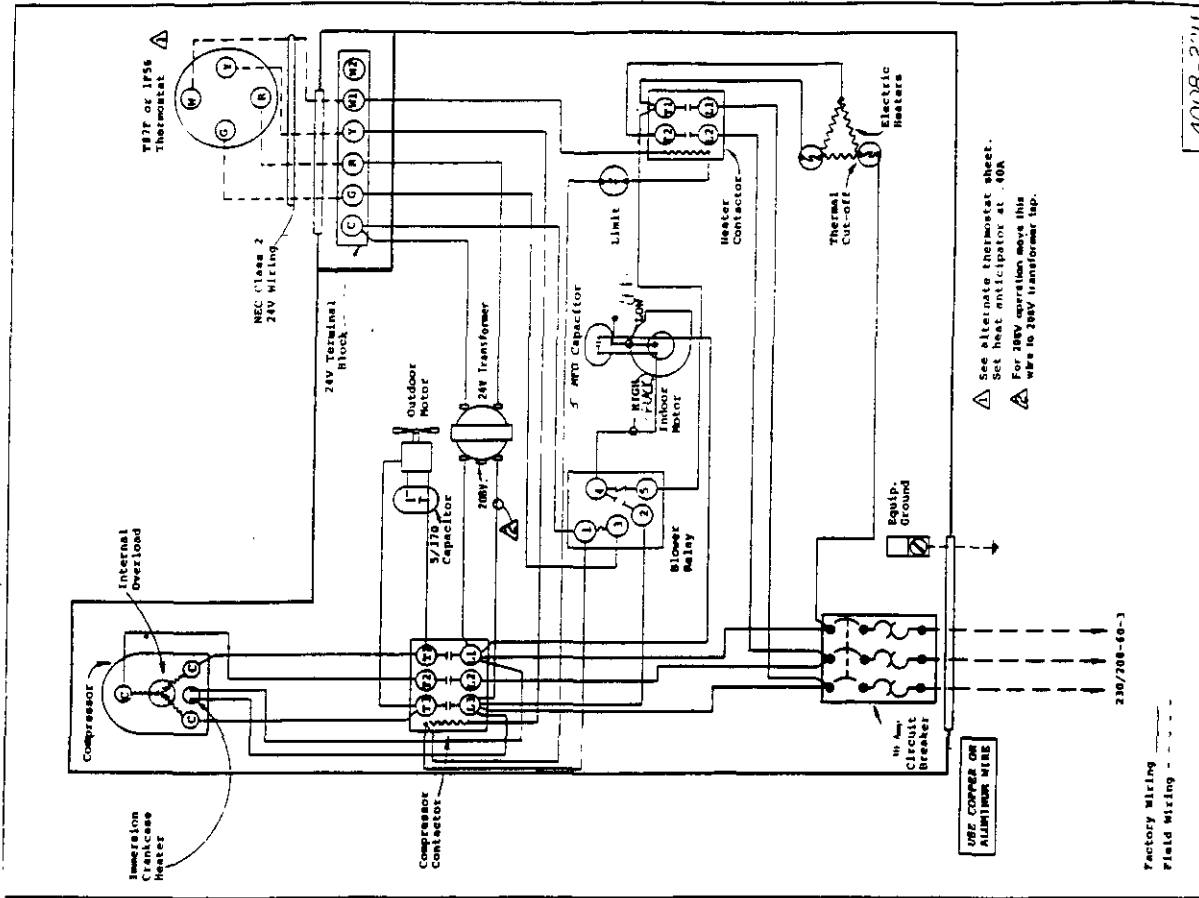
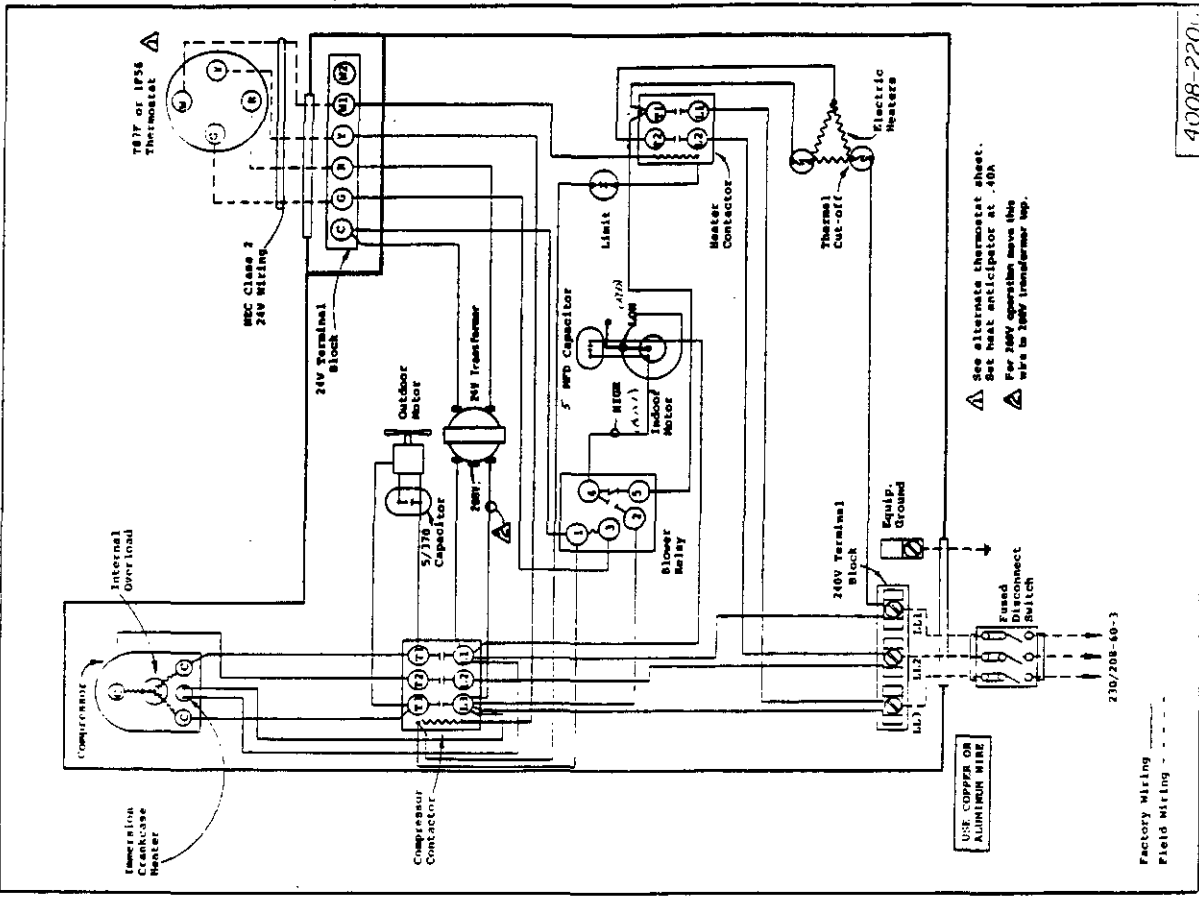


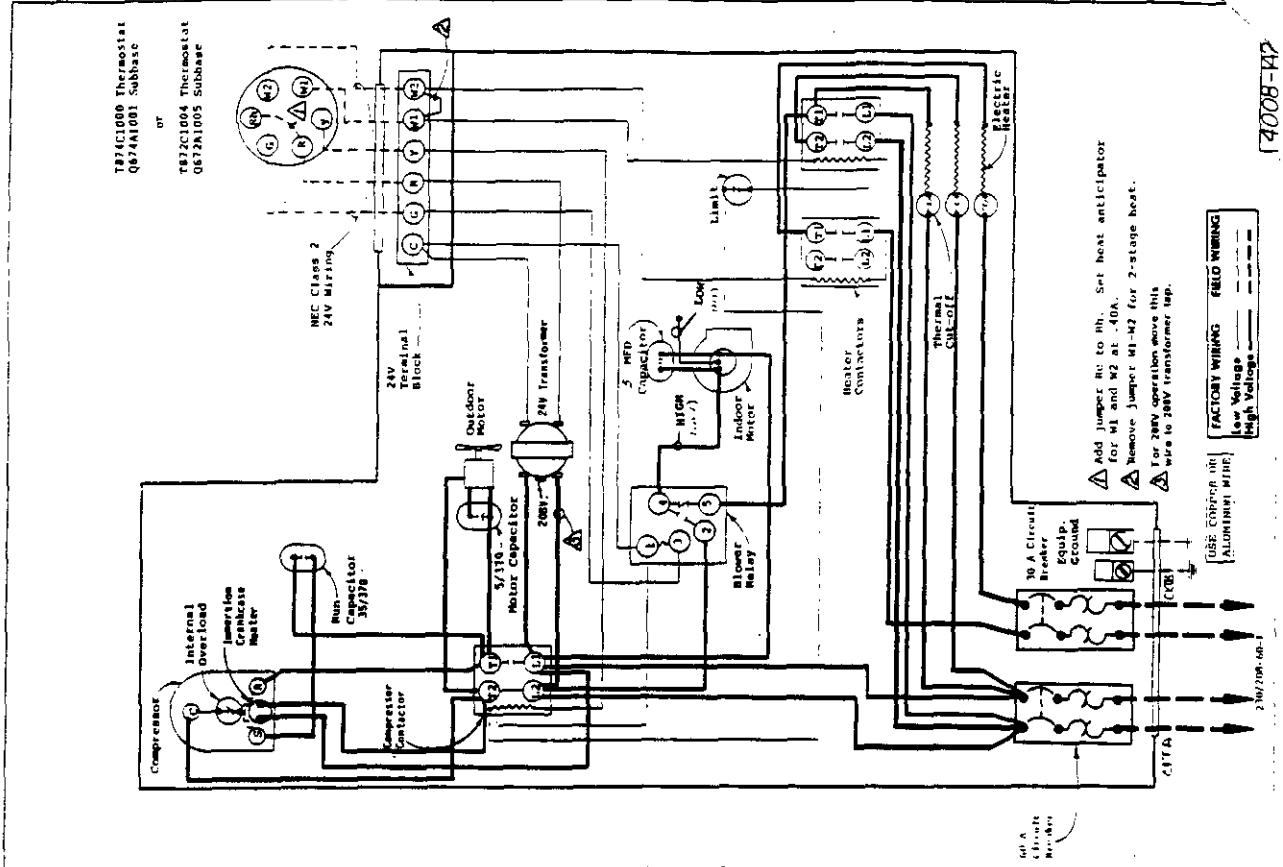
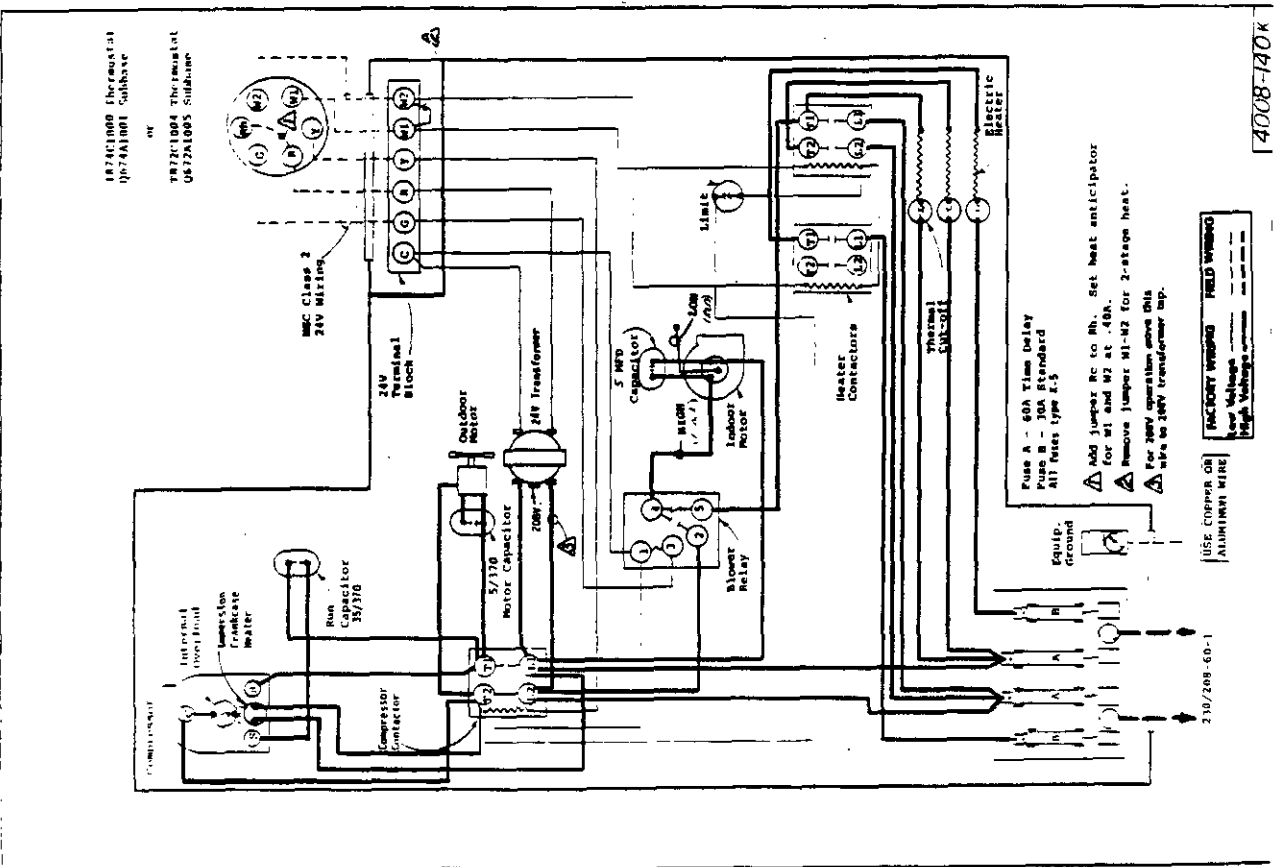
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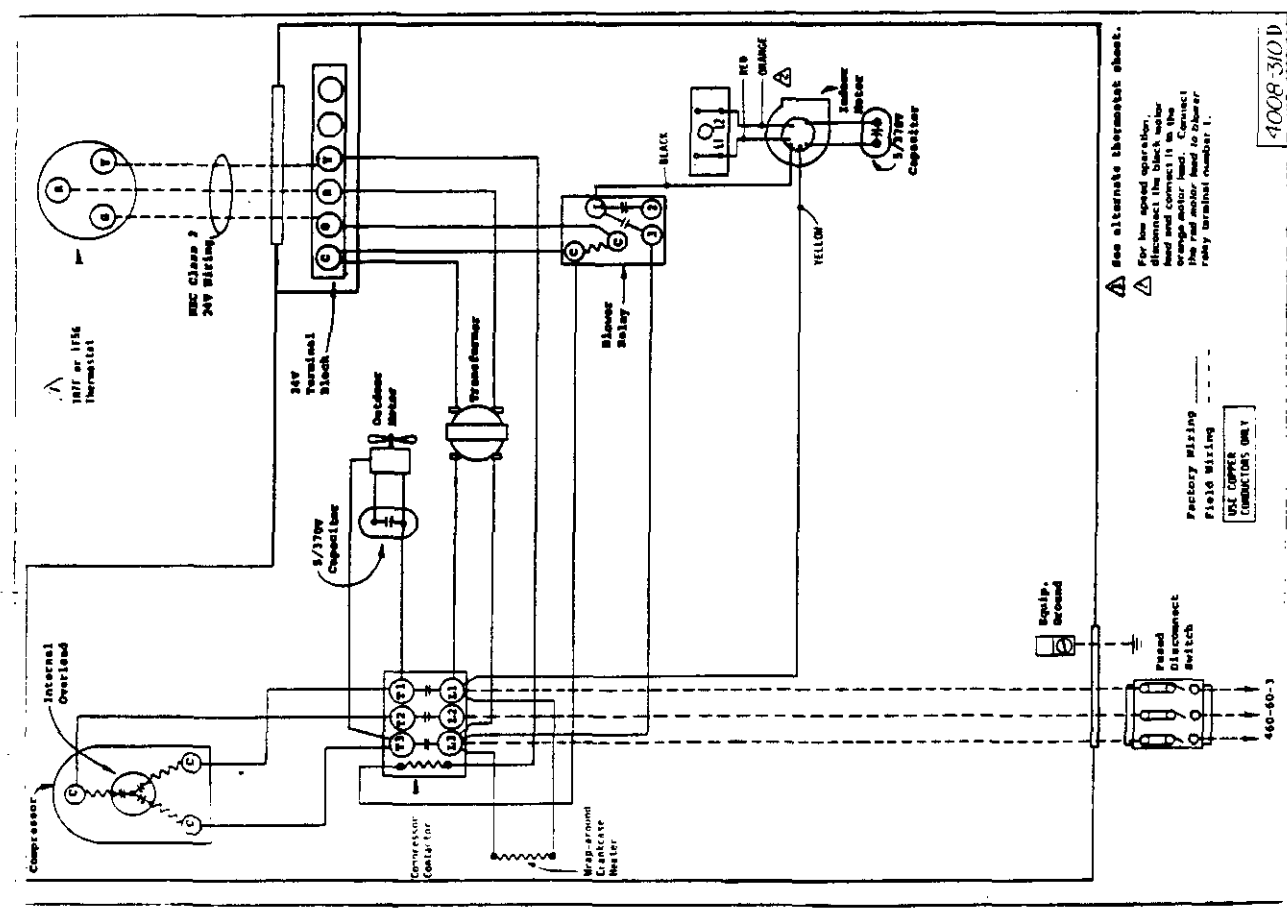
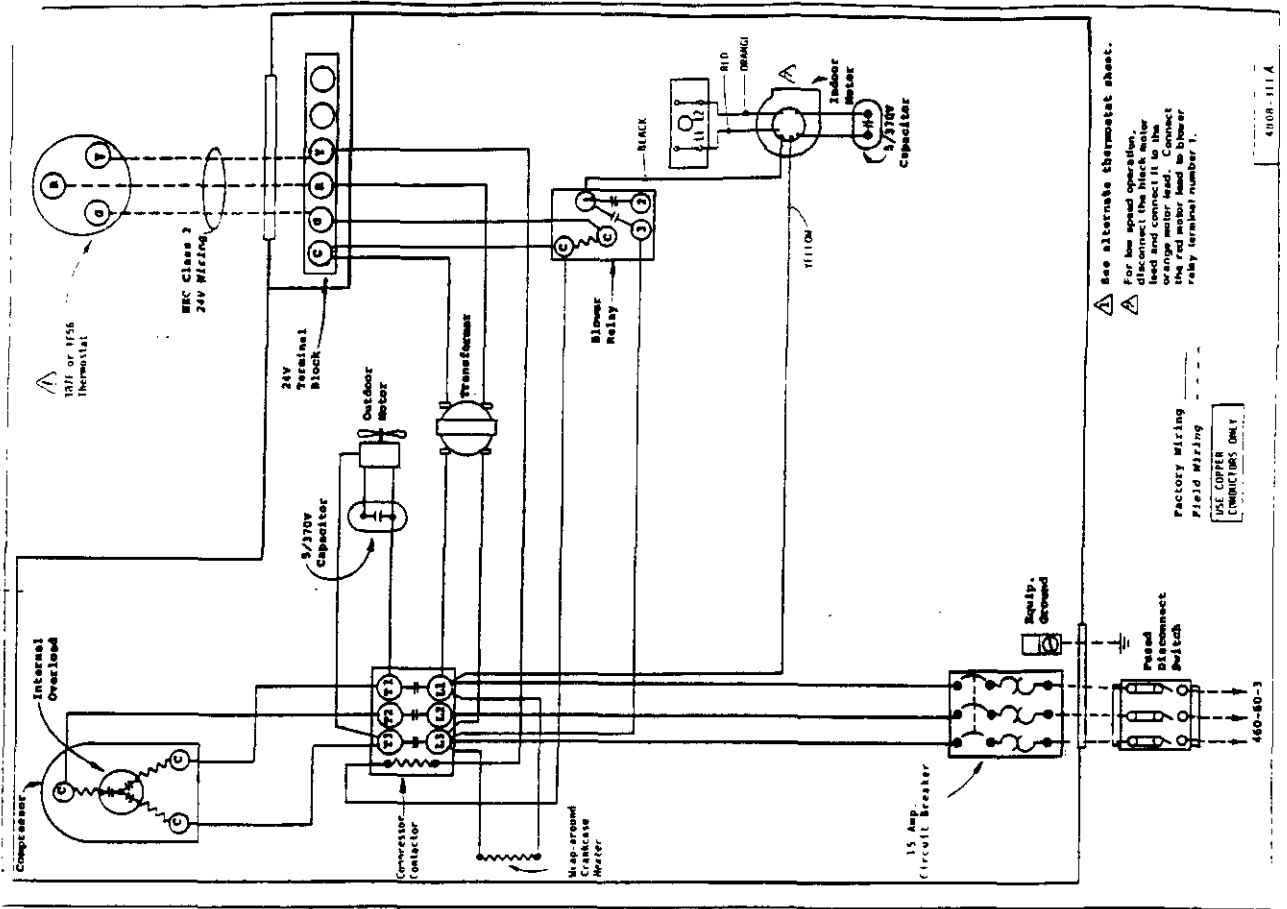
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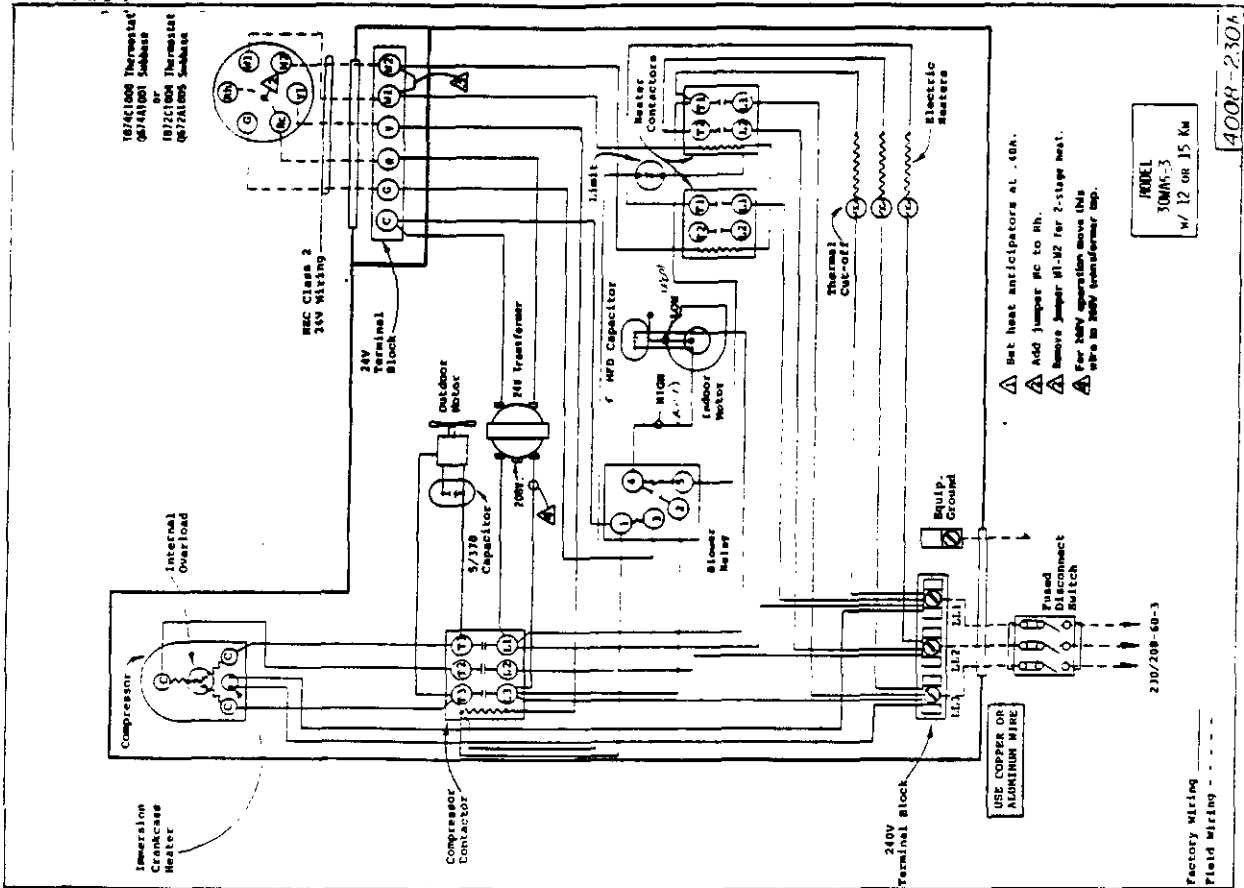
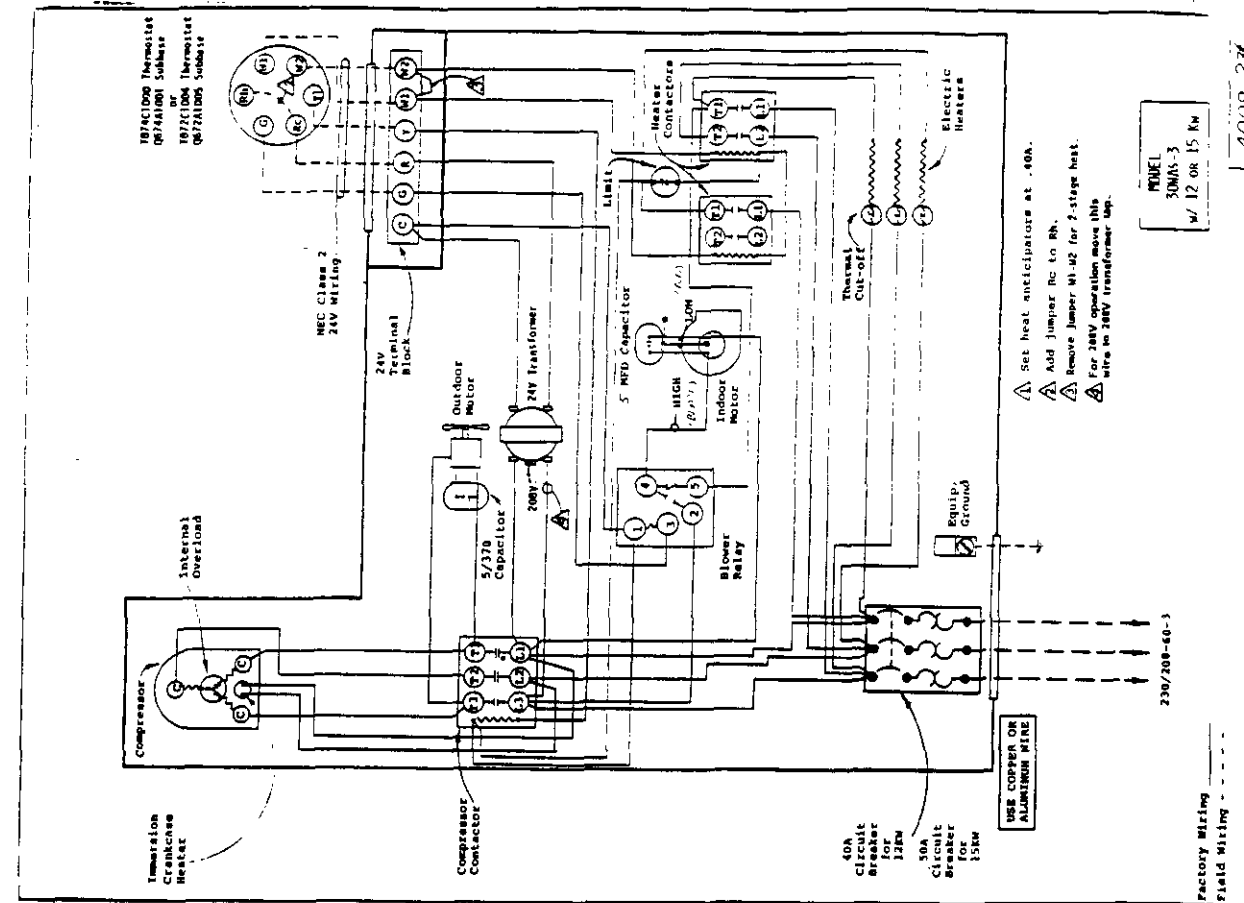
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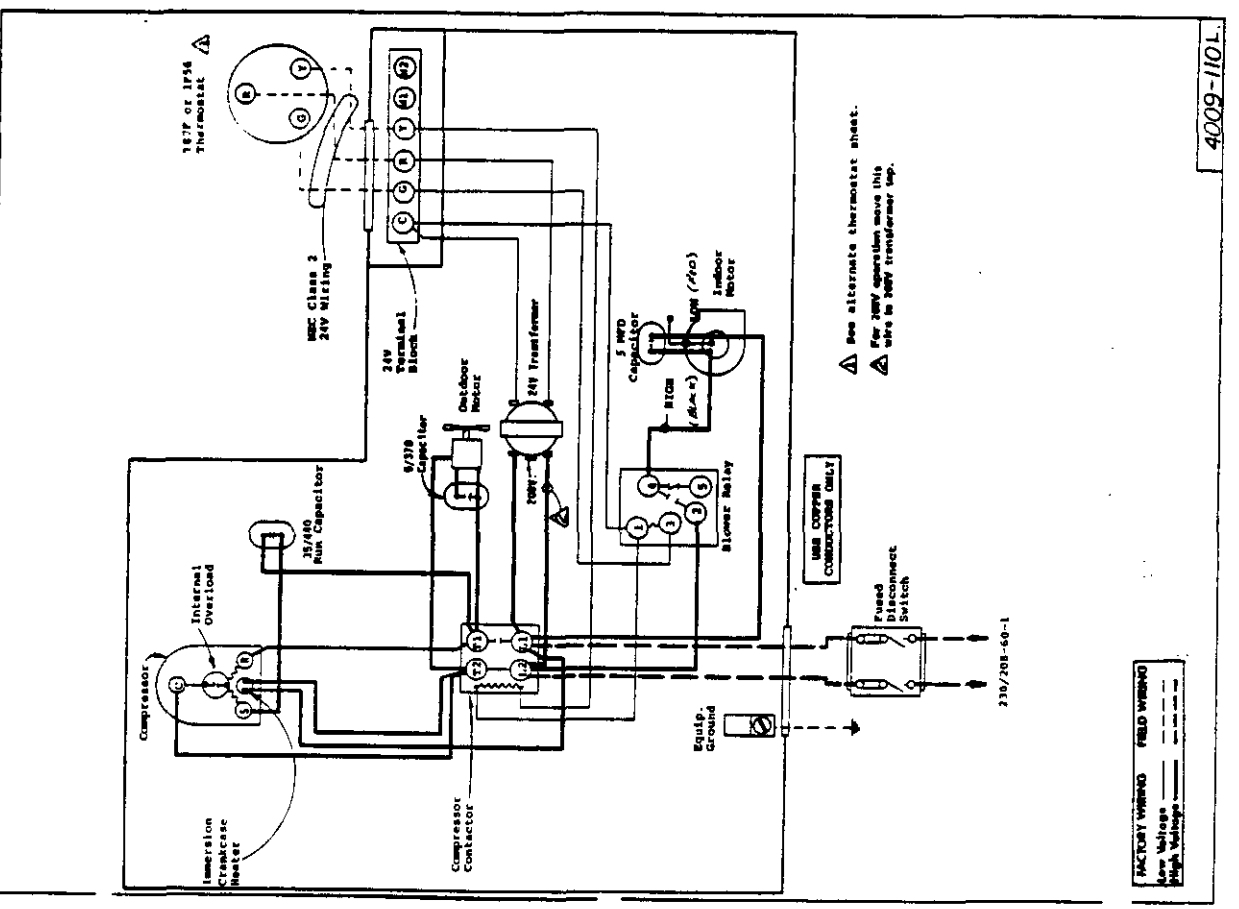
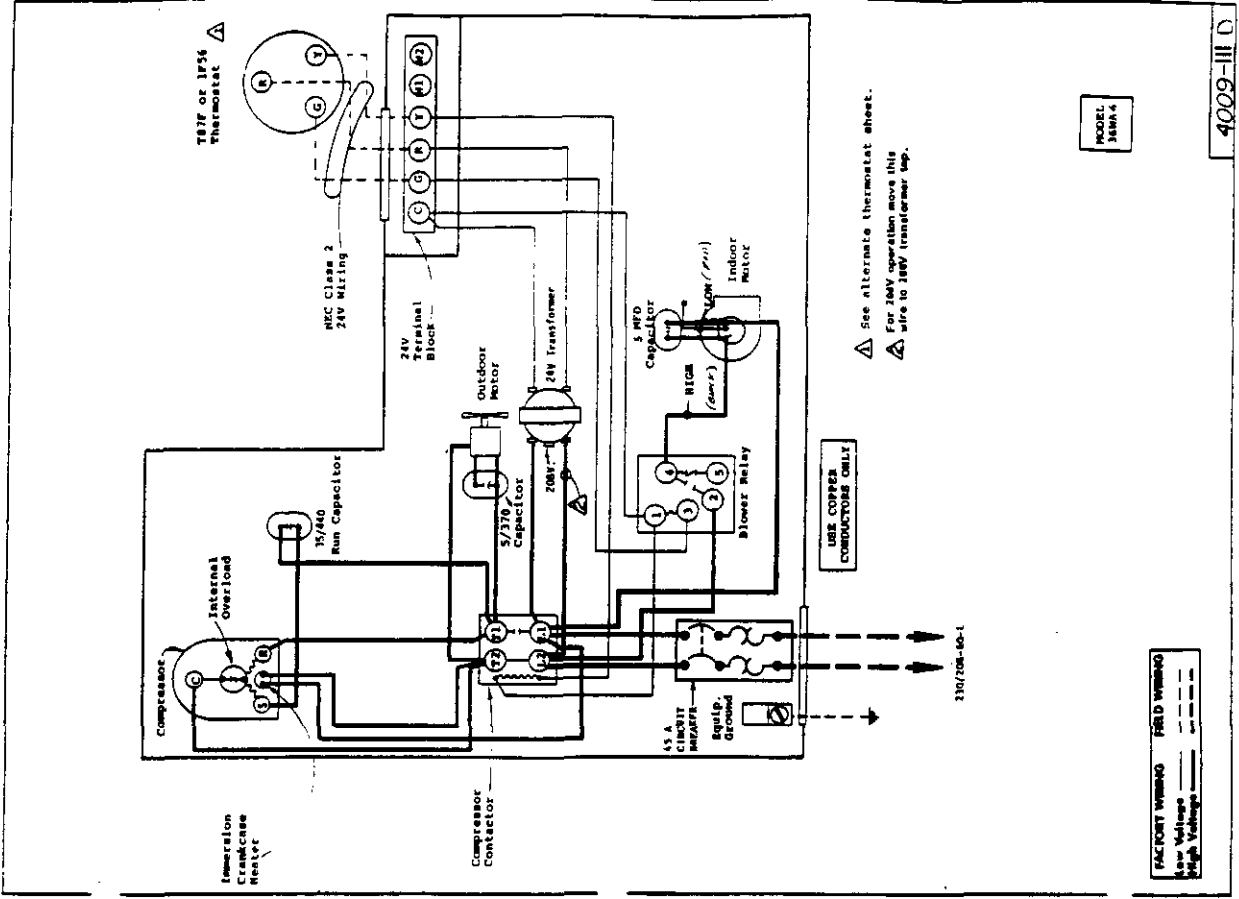


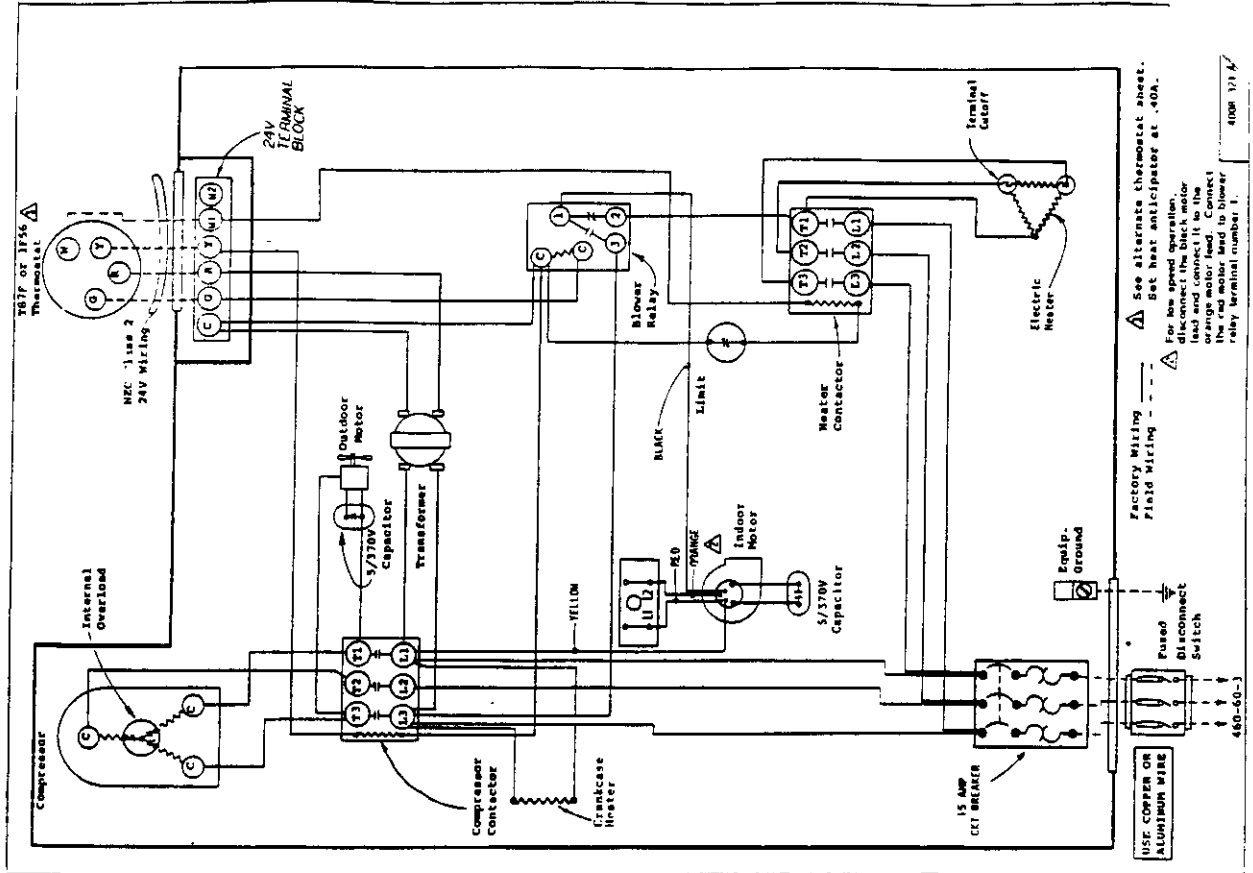
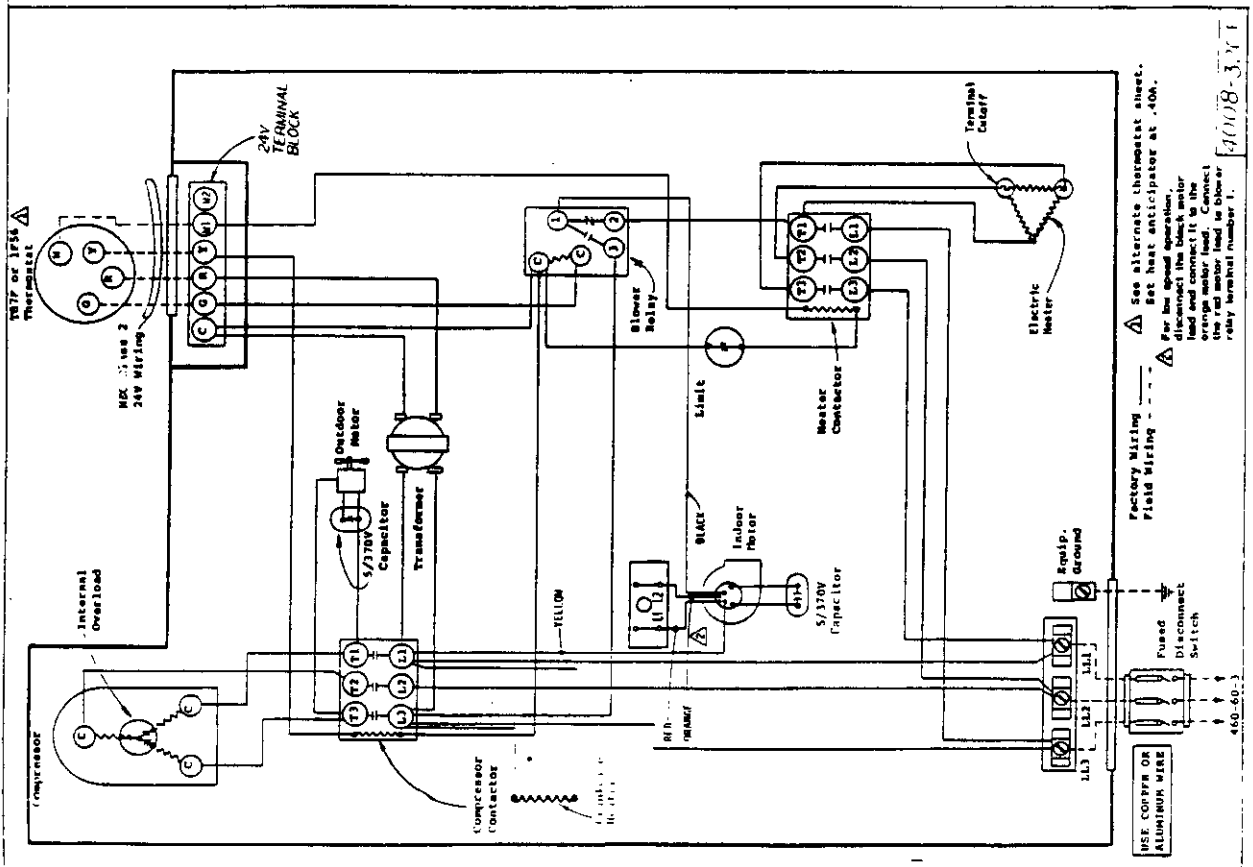
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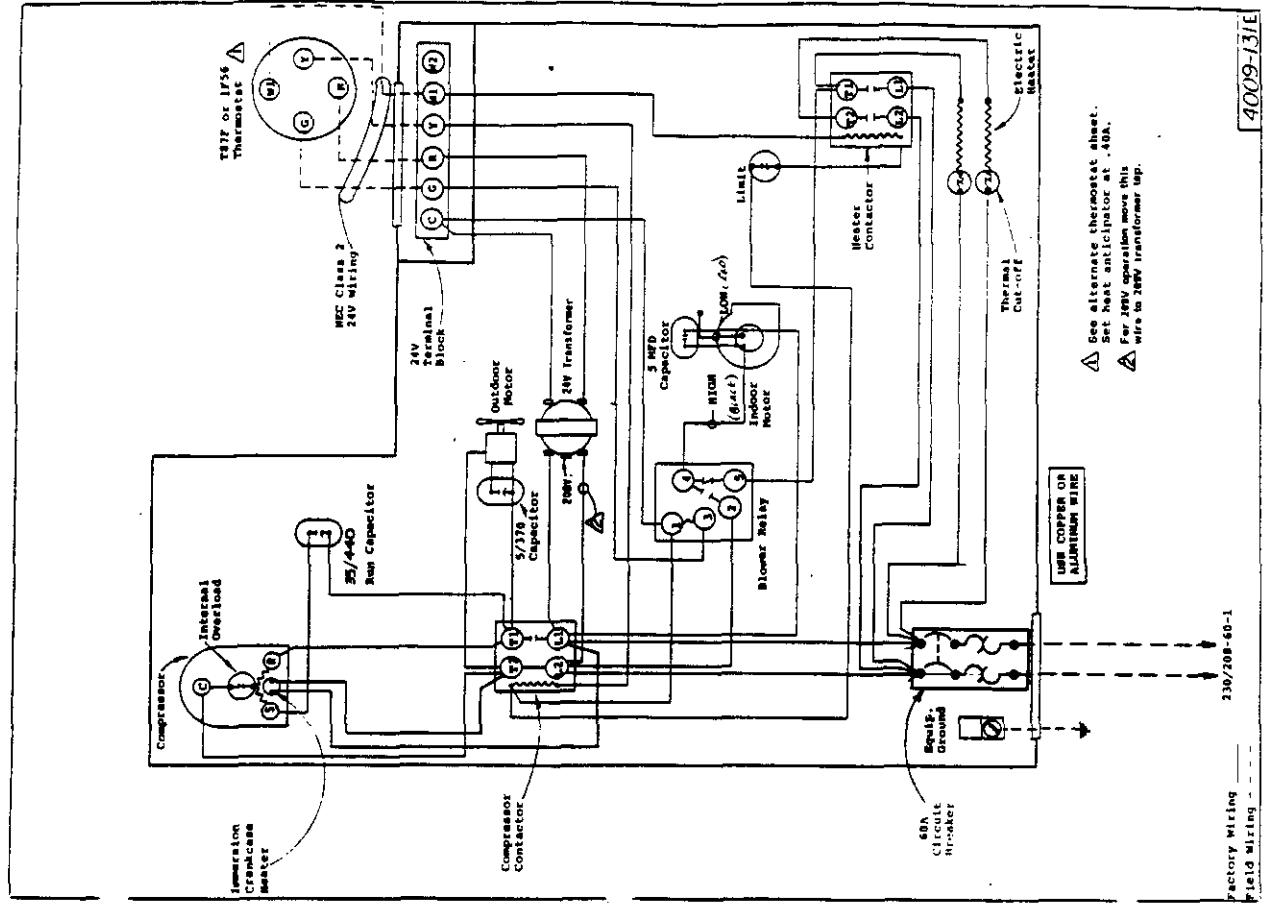
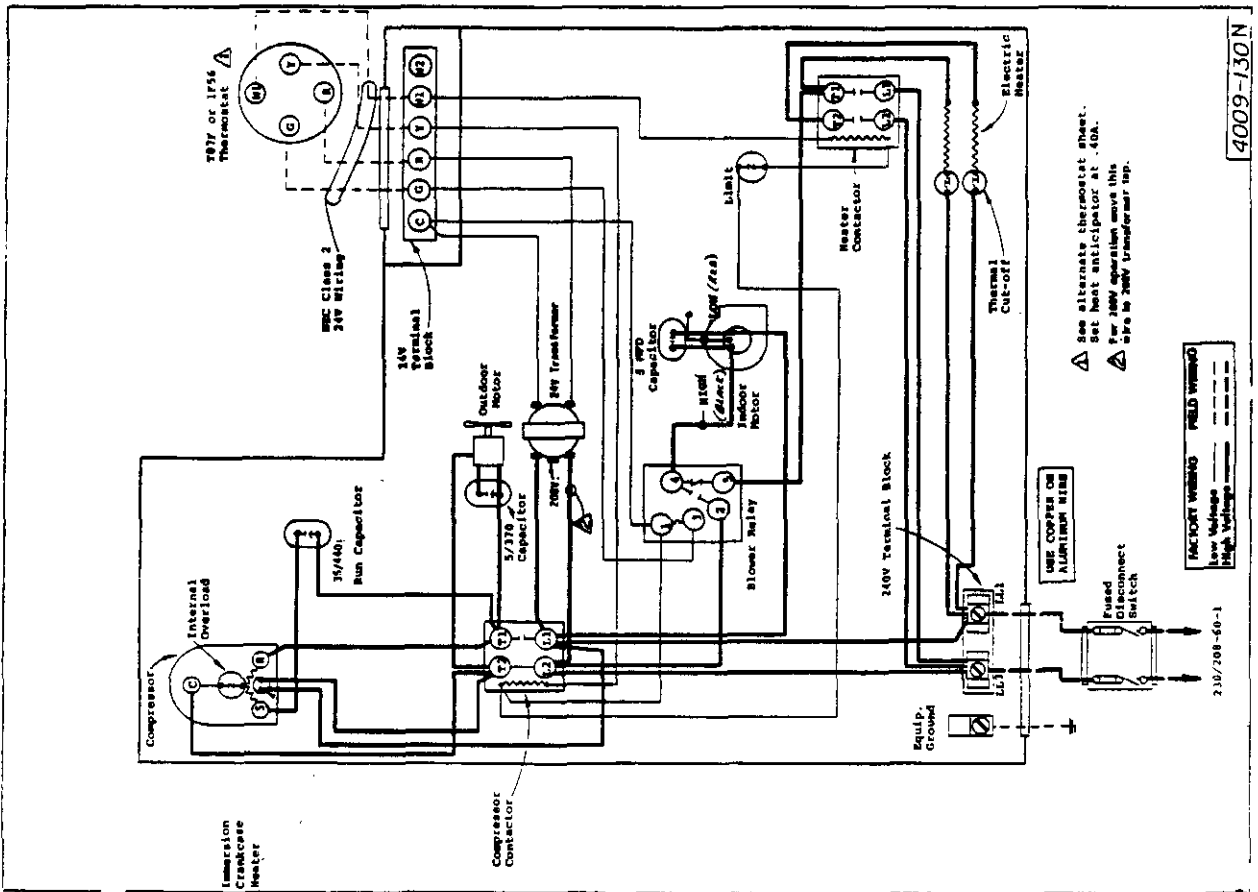


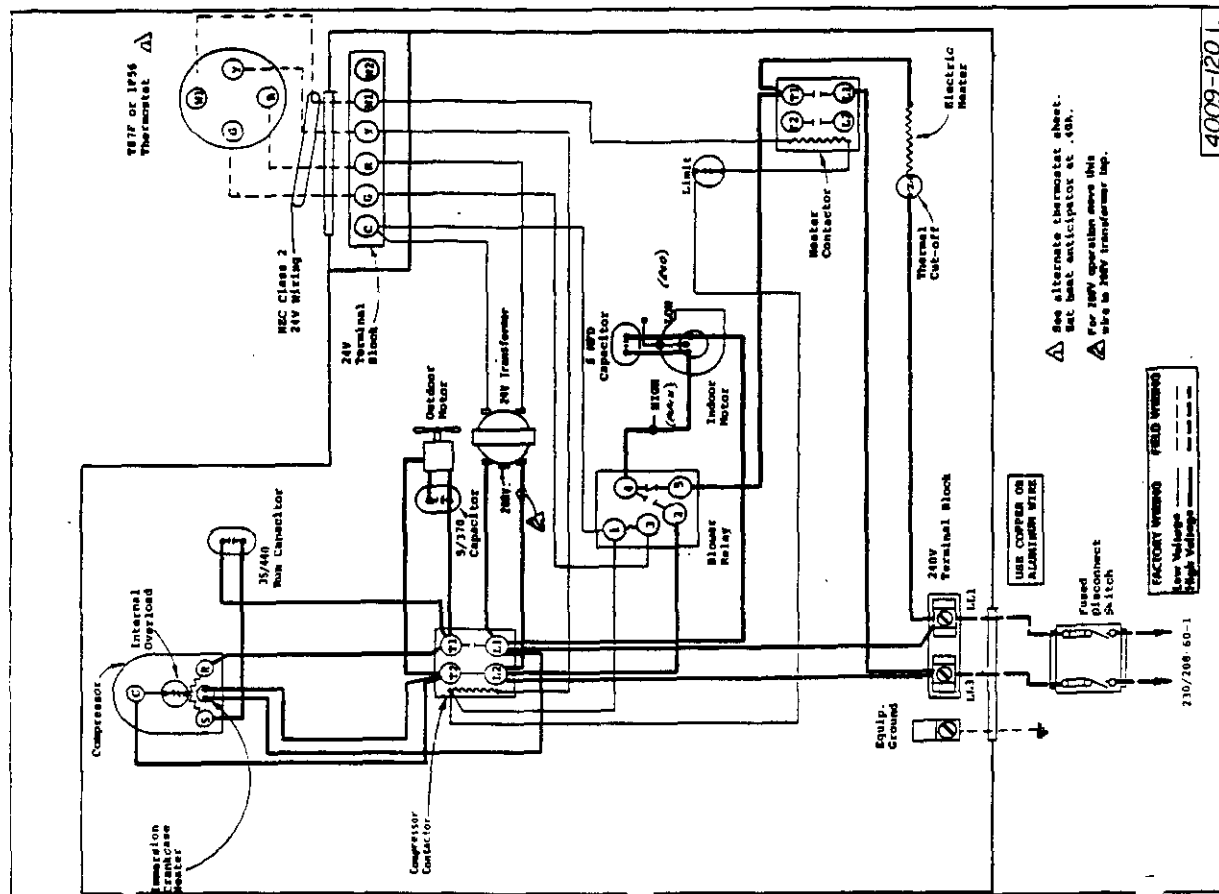
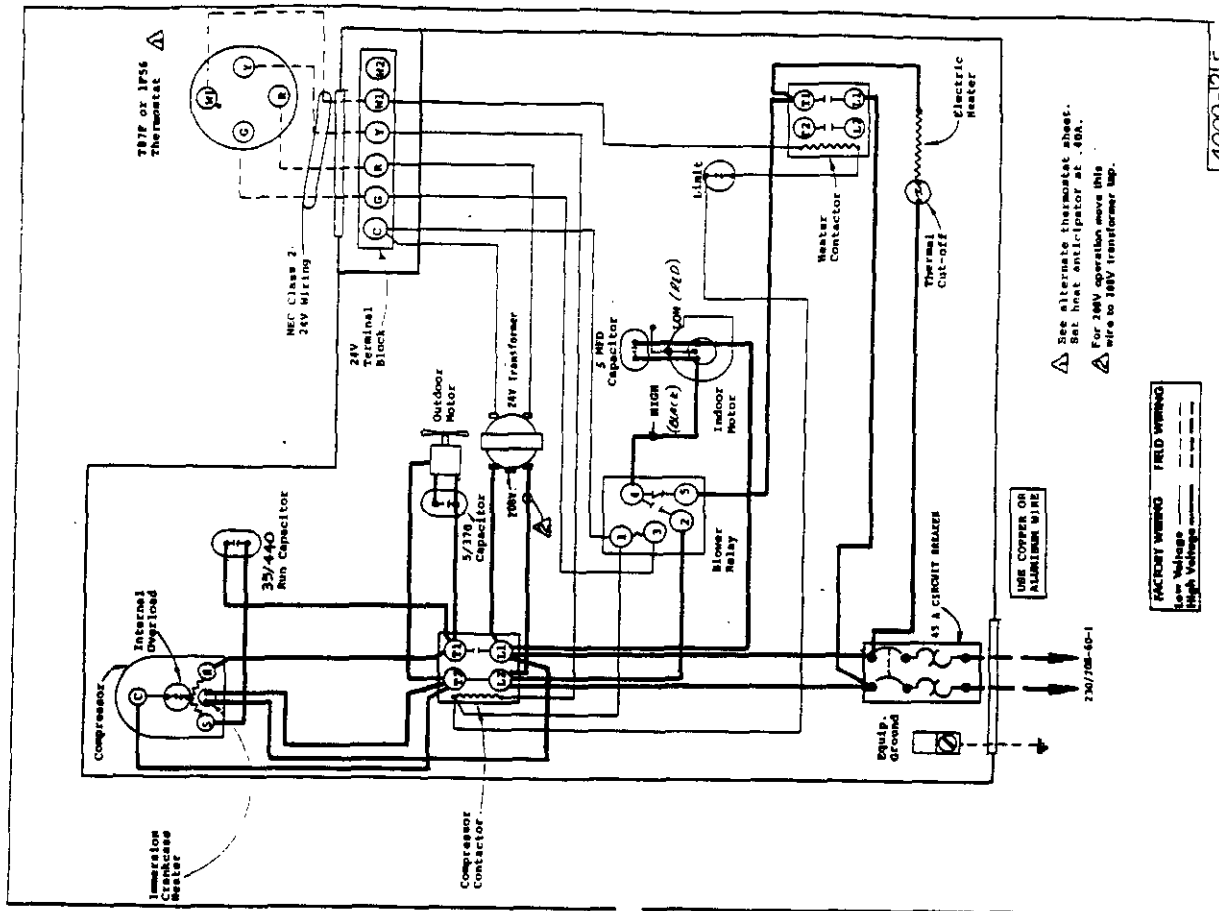


502017



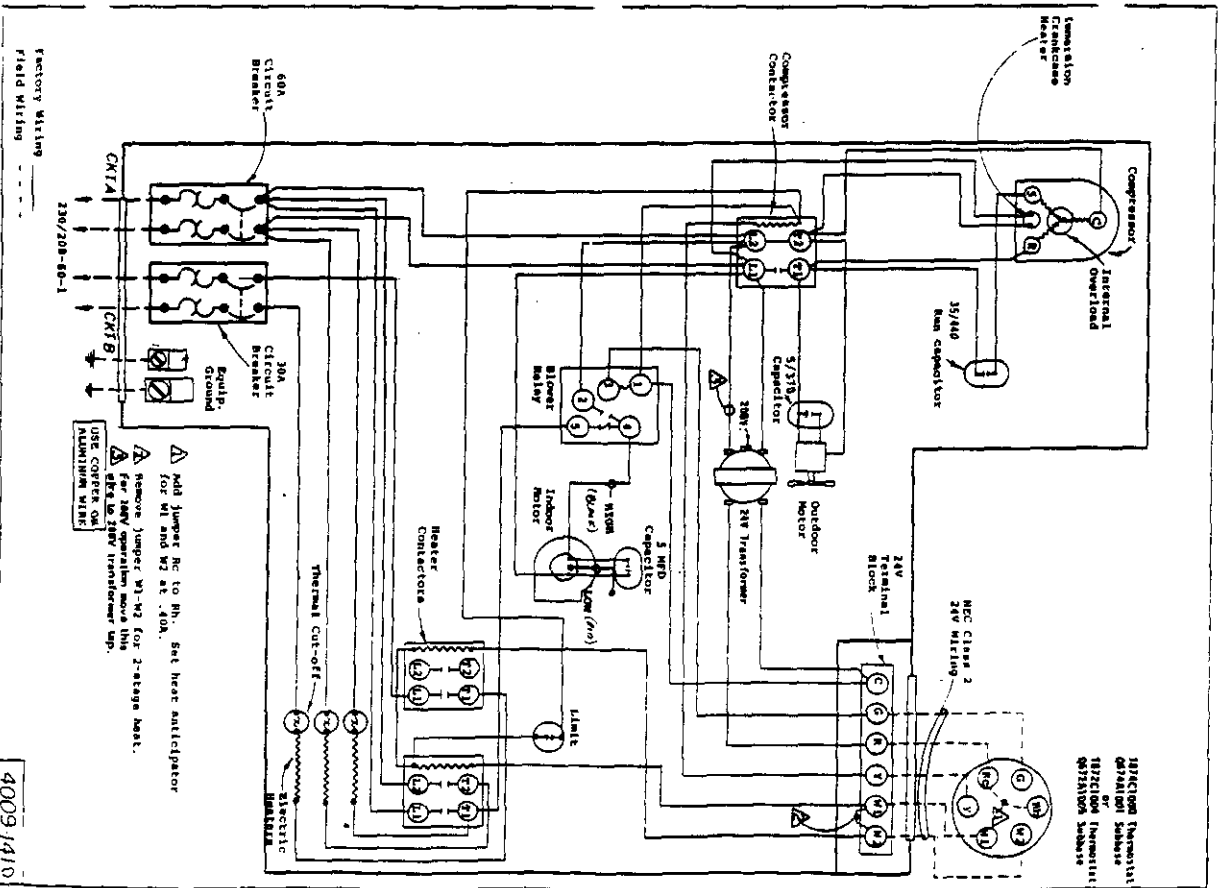
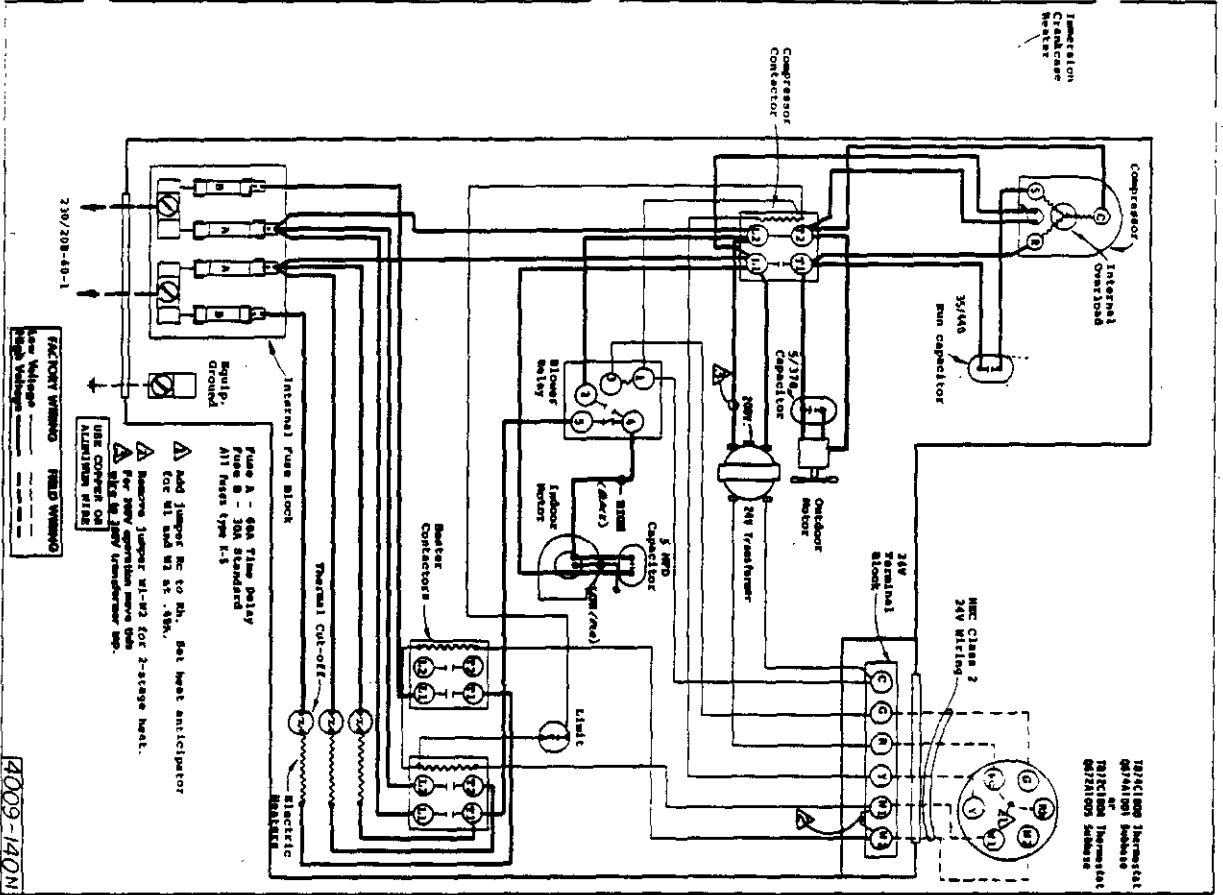




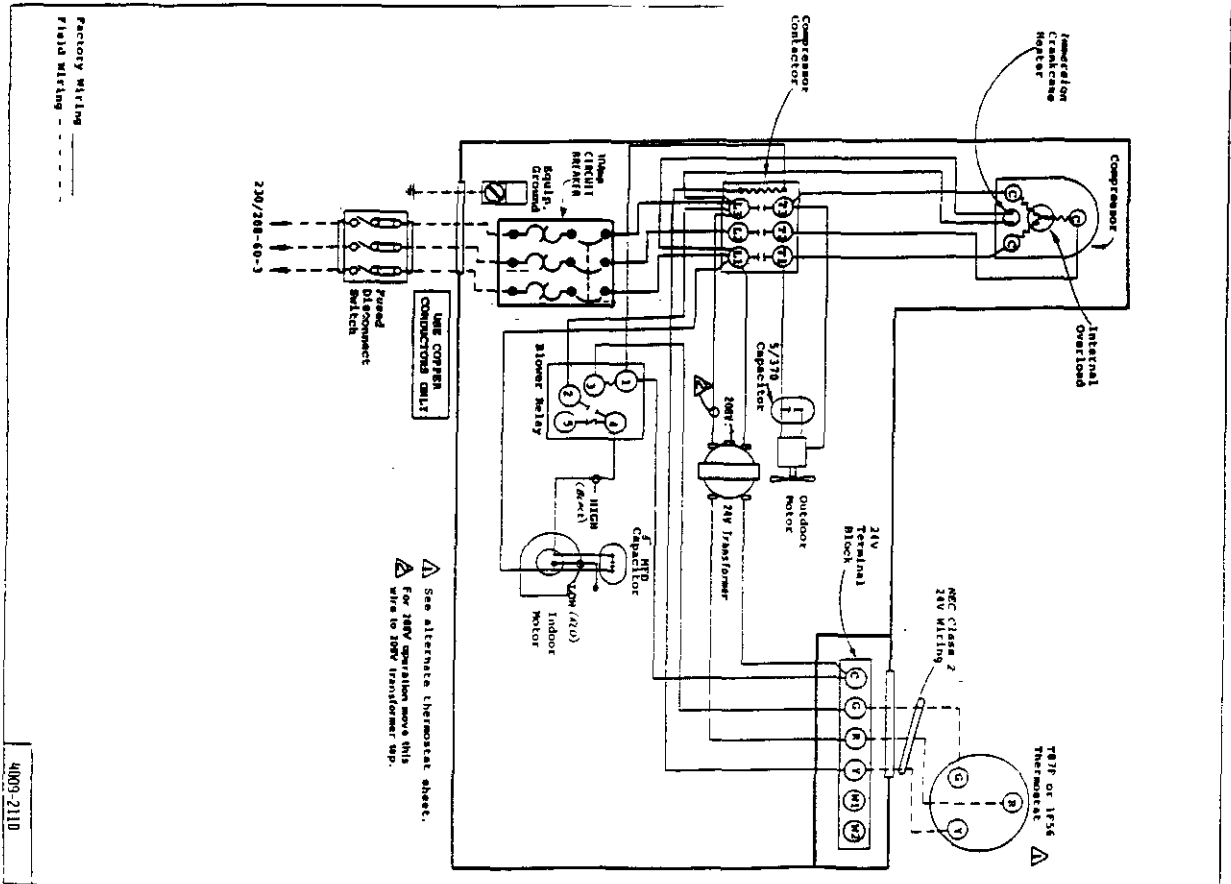
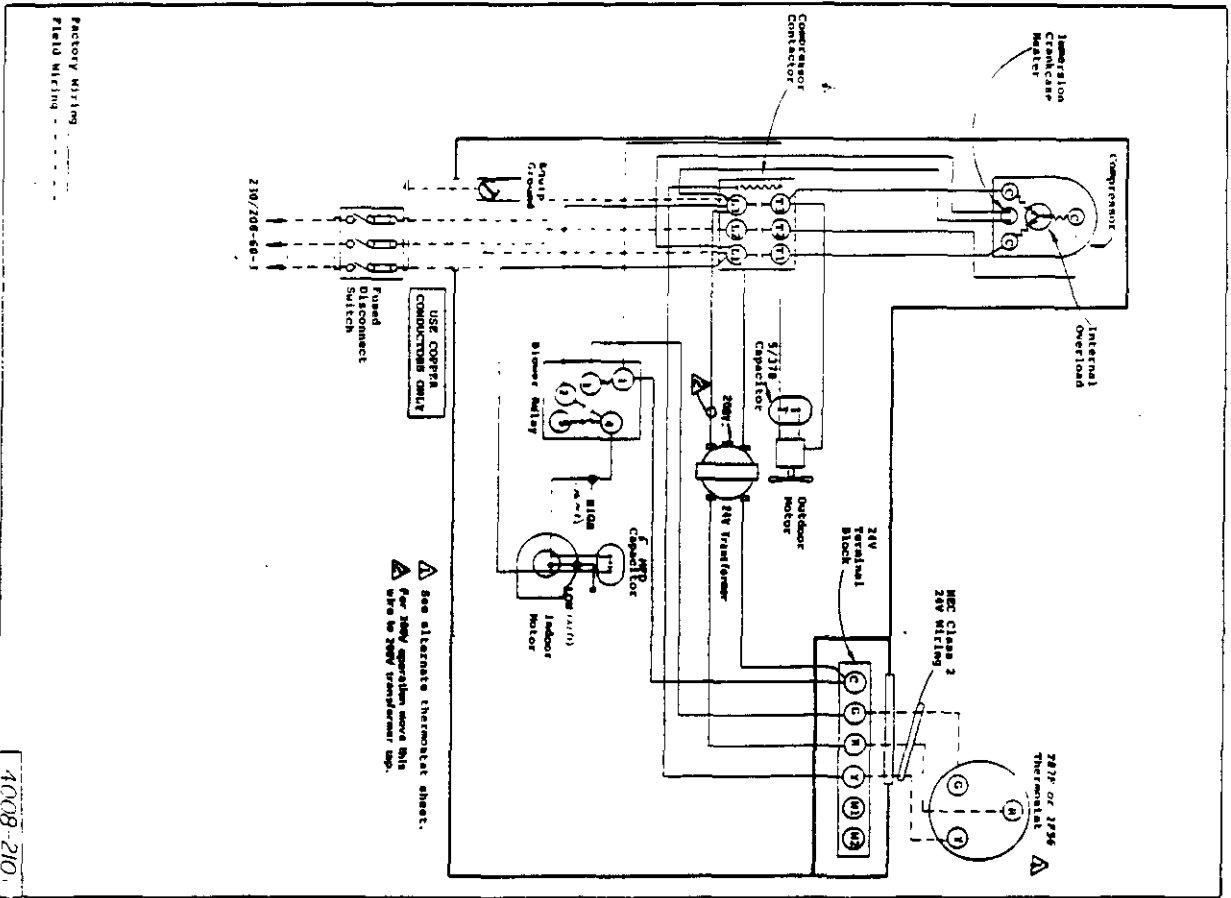


502021

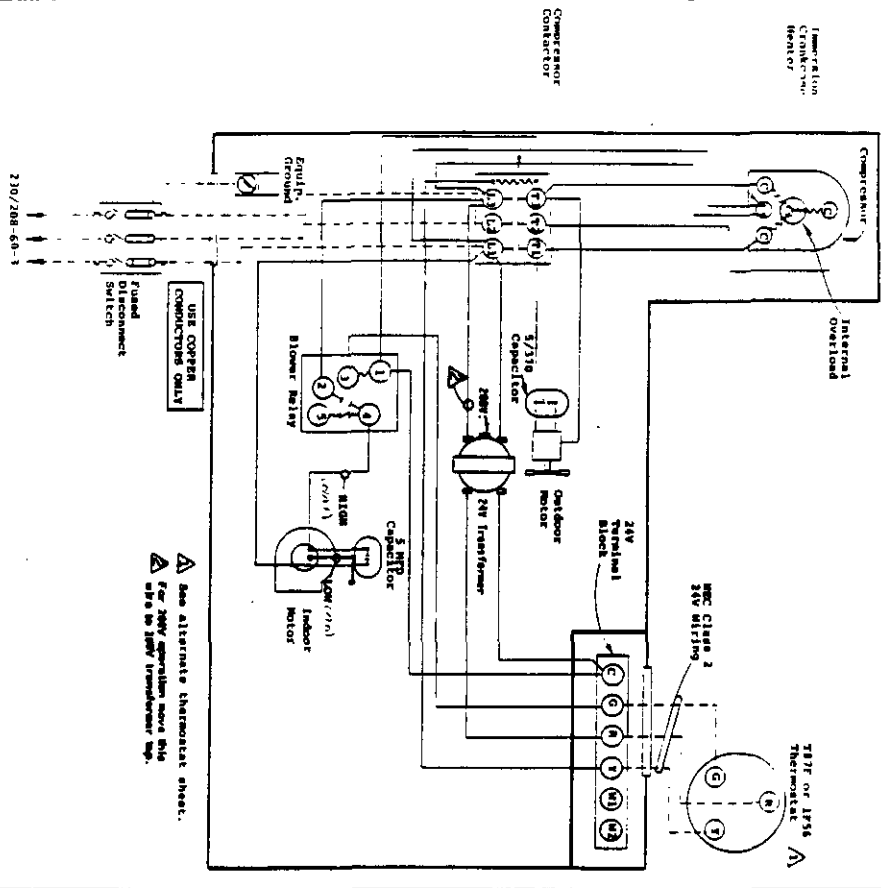
502023



4009-140N



Factory Wiring
Field Wiring

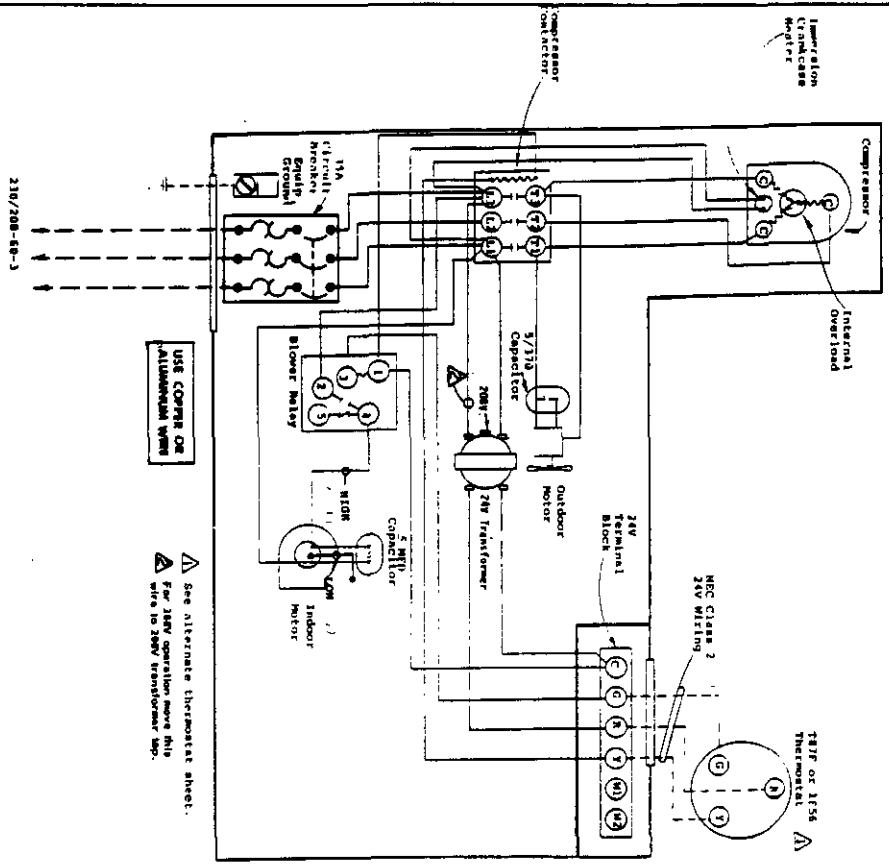


⚠ See alternate thermostat sheet.
 ⚠ For 200V operation move this wire to 200V transformer tap.

USE COPPER CONDUCTORS ONLY

4009-210 H

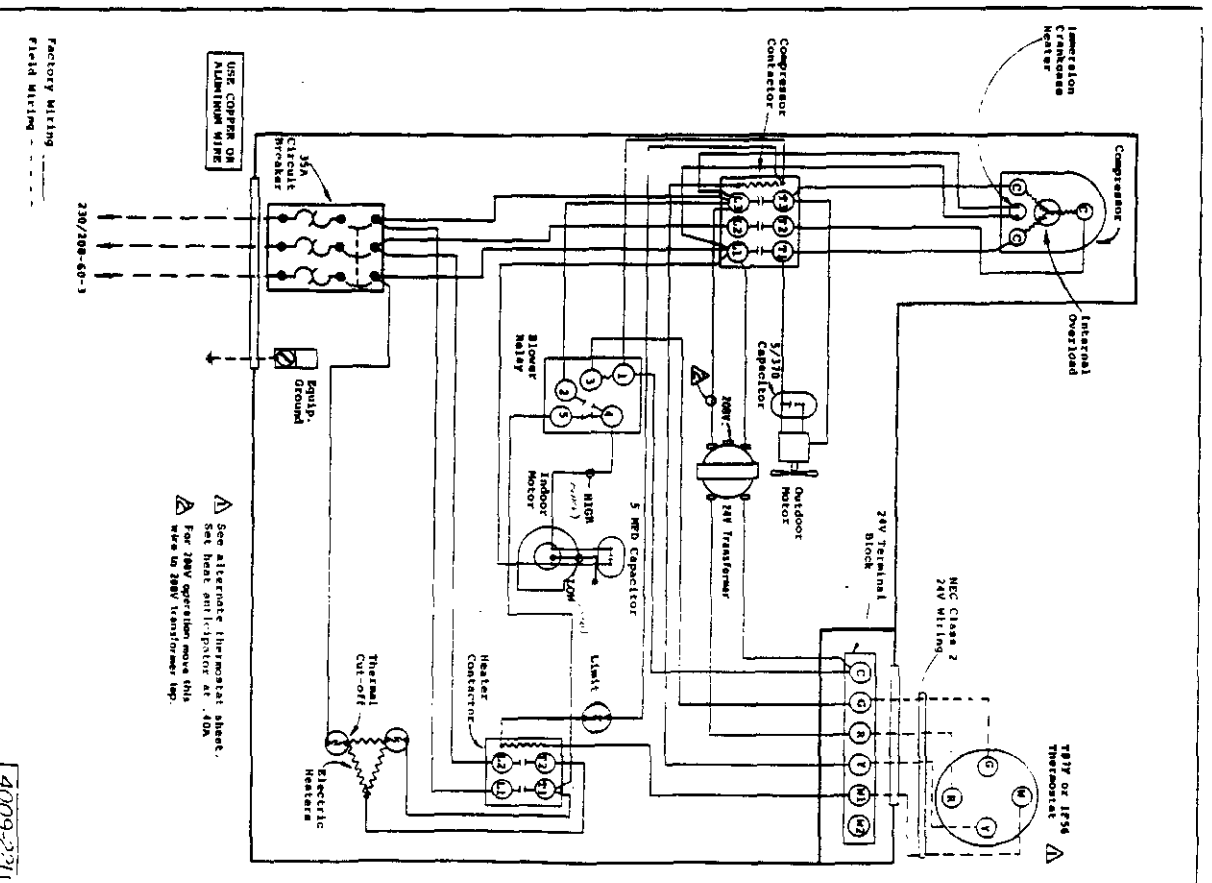
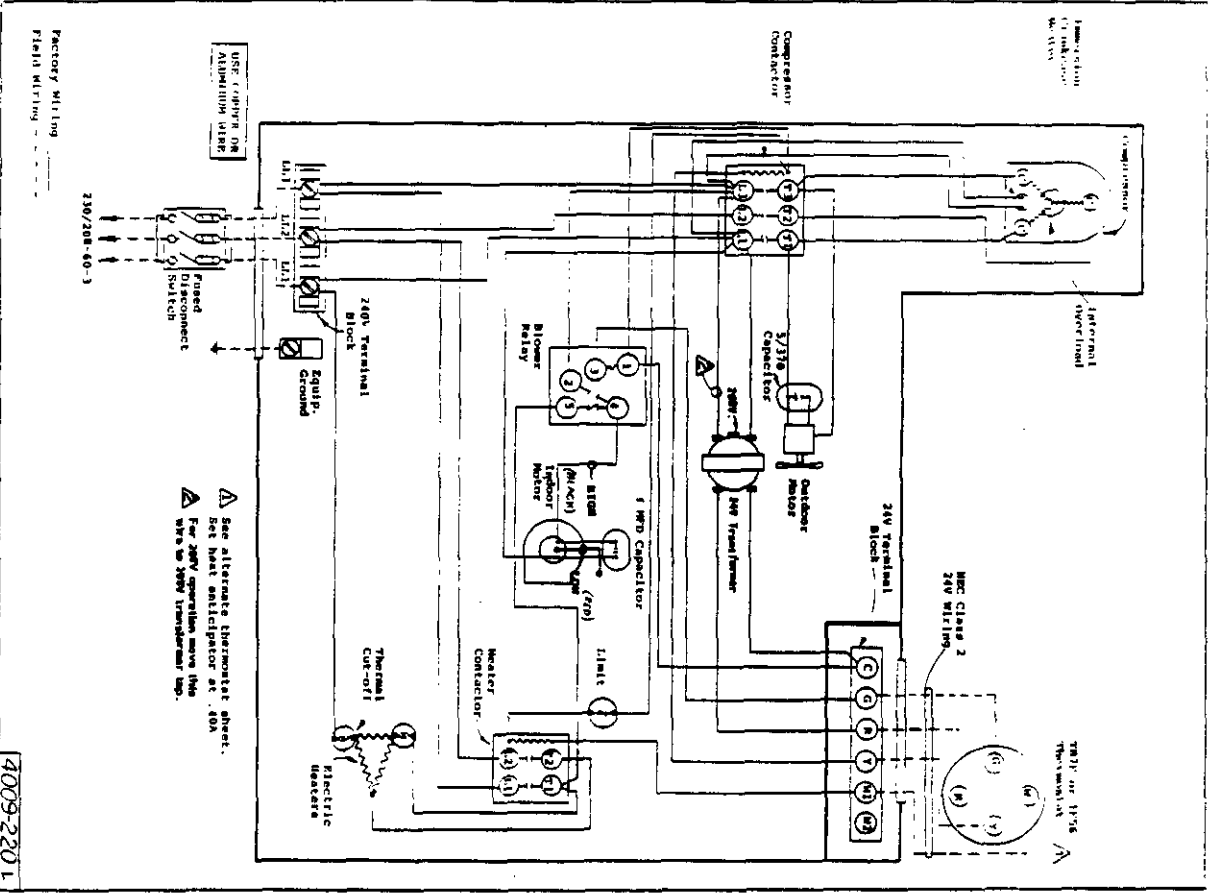
Factory Wiring
Field Wiring



⚠ See alternate thermostat sheet.
 ⚠ For 200V operation move this wire to 200V transformer tap.

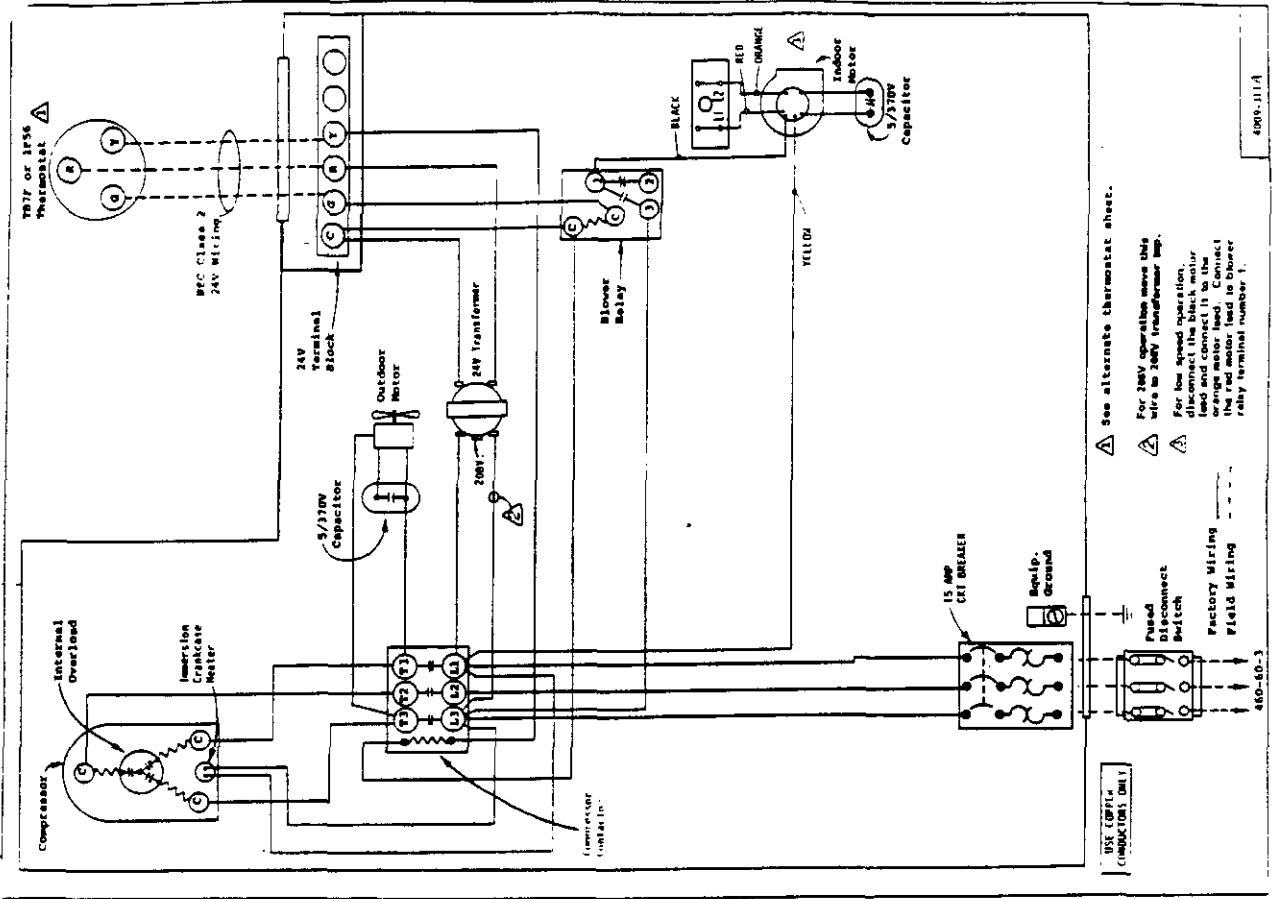
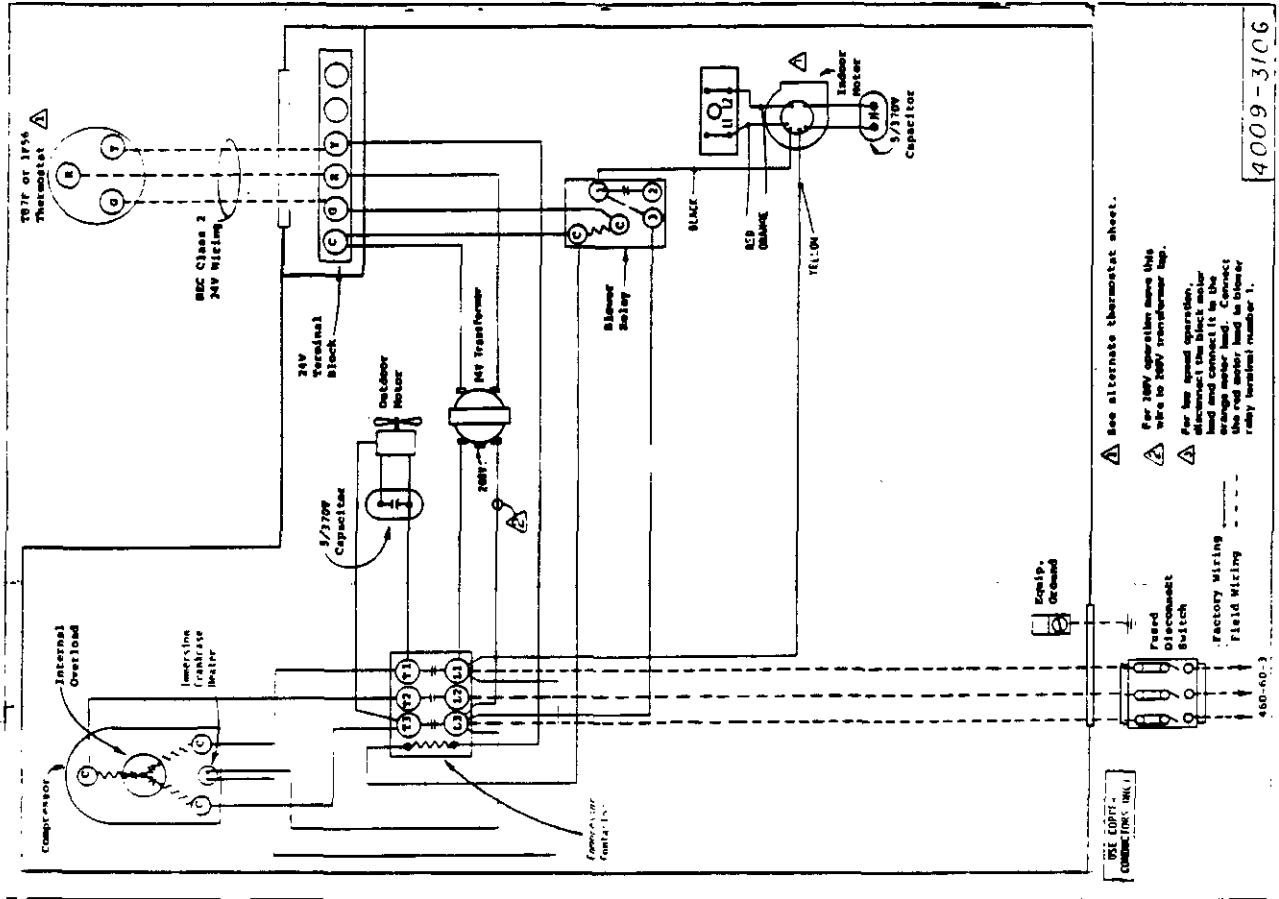
USE COPPER OR ALUMINUM WIRE

4009-211 B

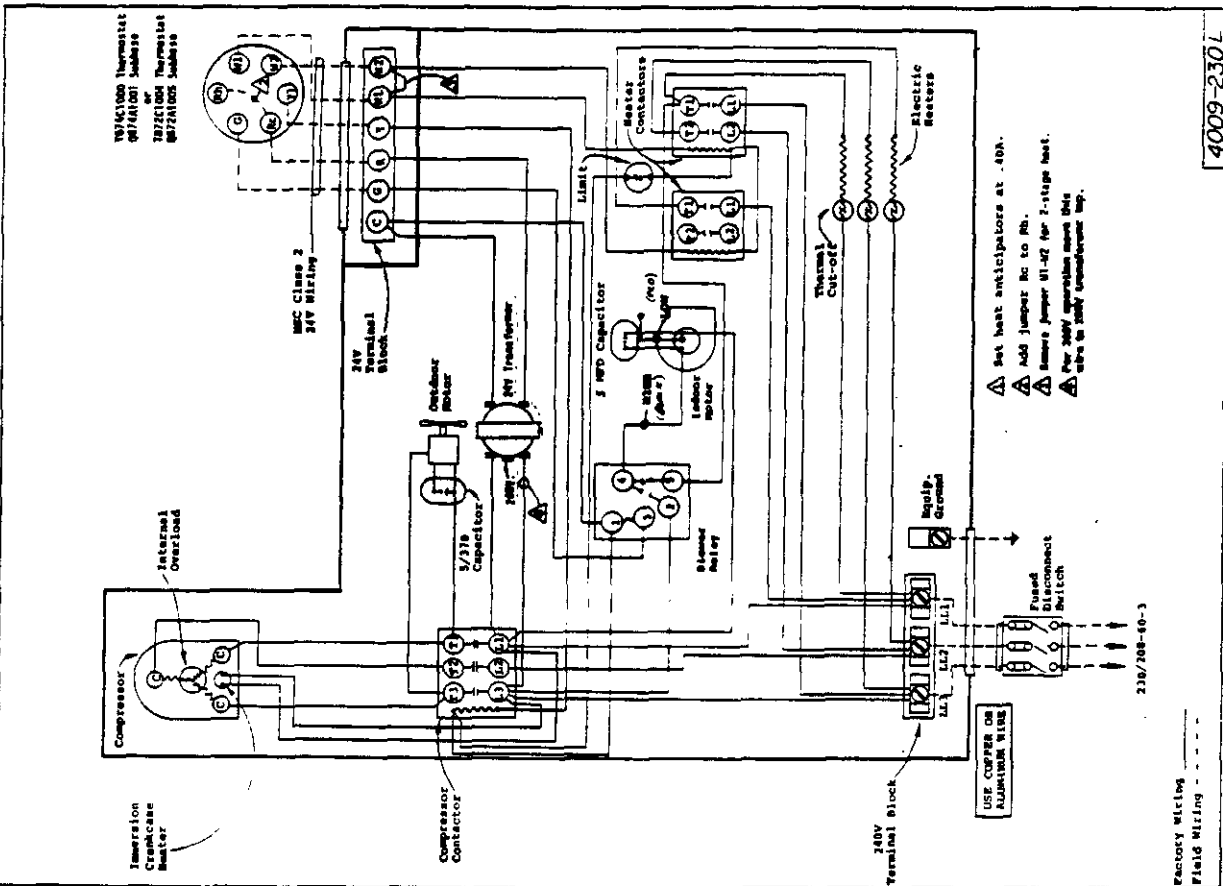


4009-2201

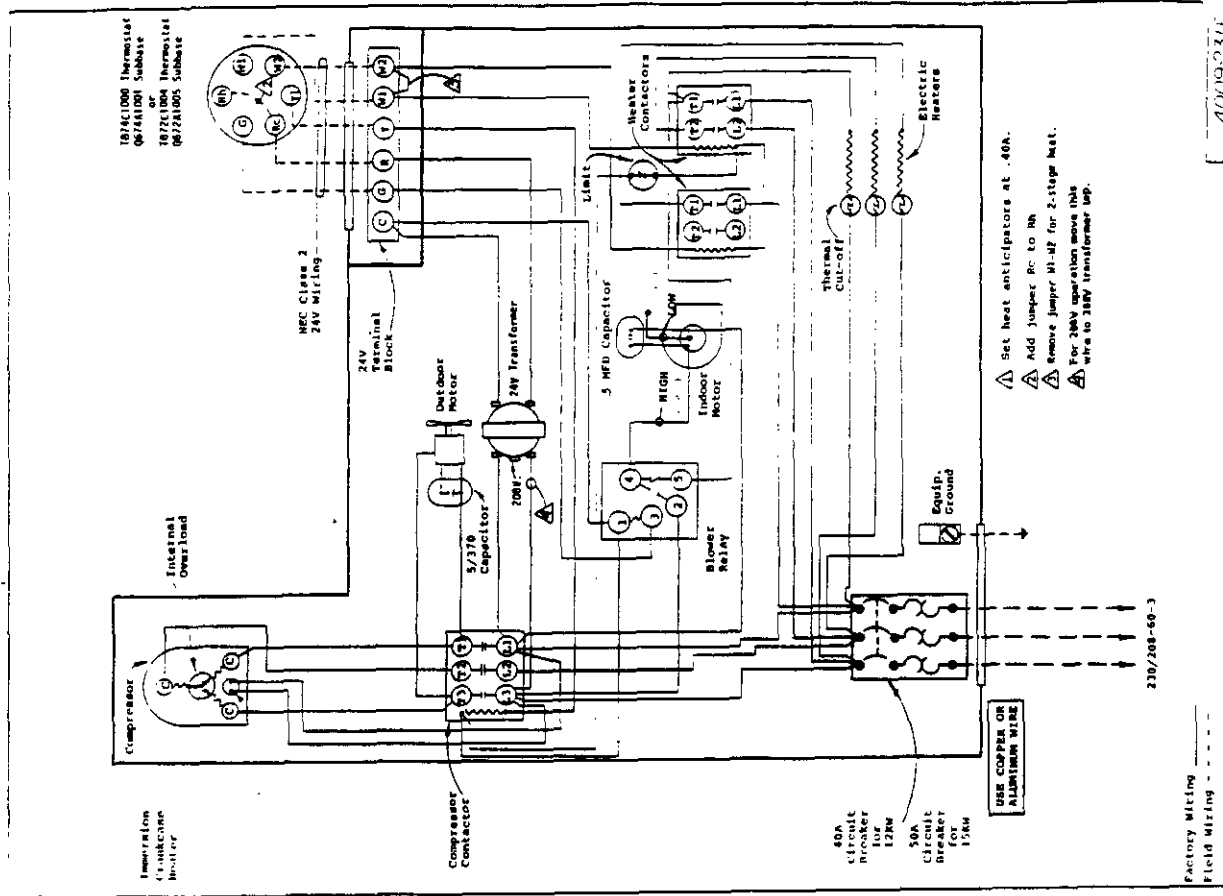
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4009-3106

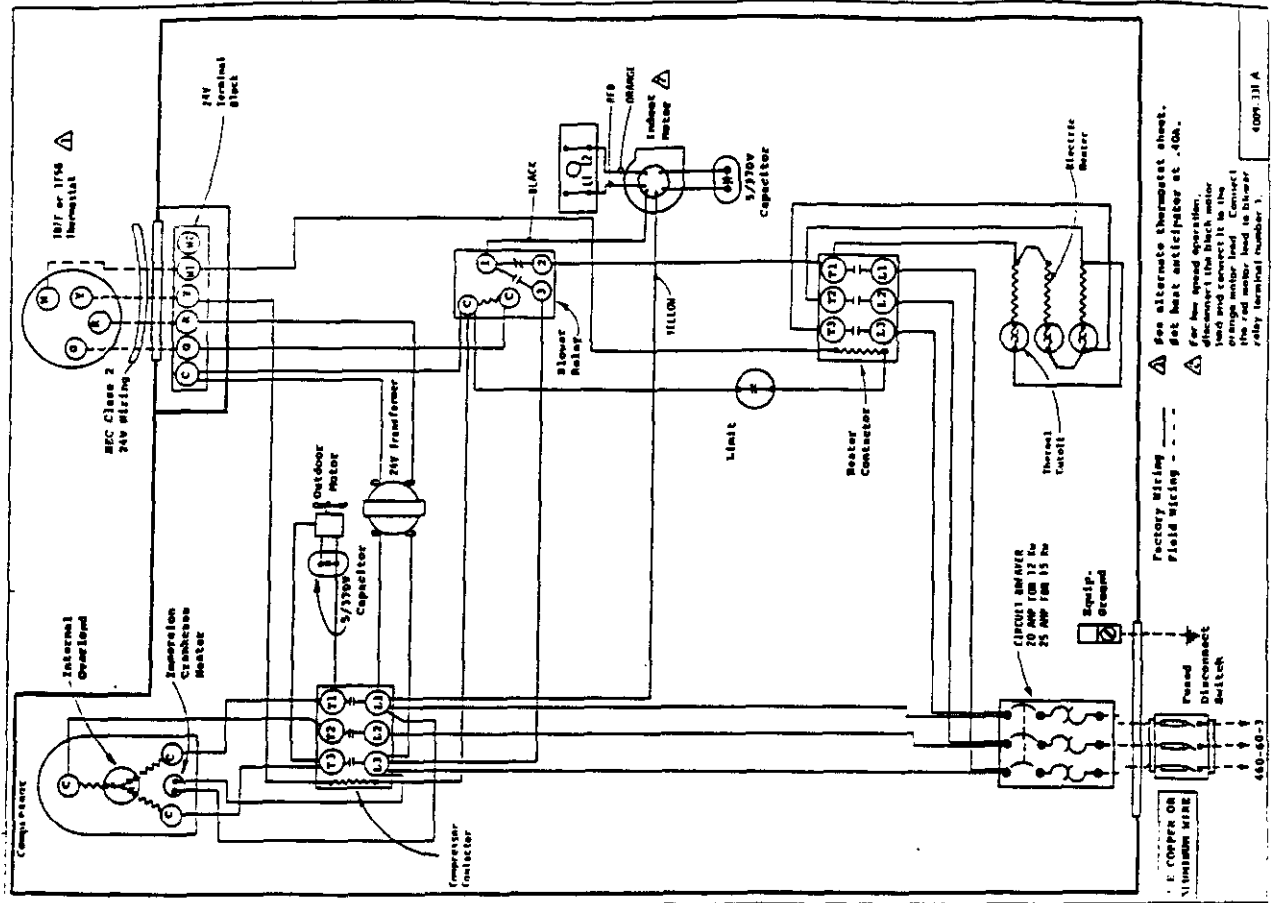


420205



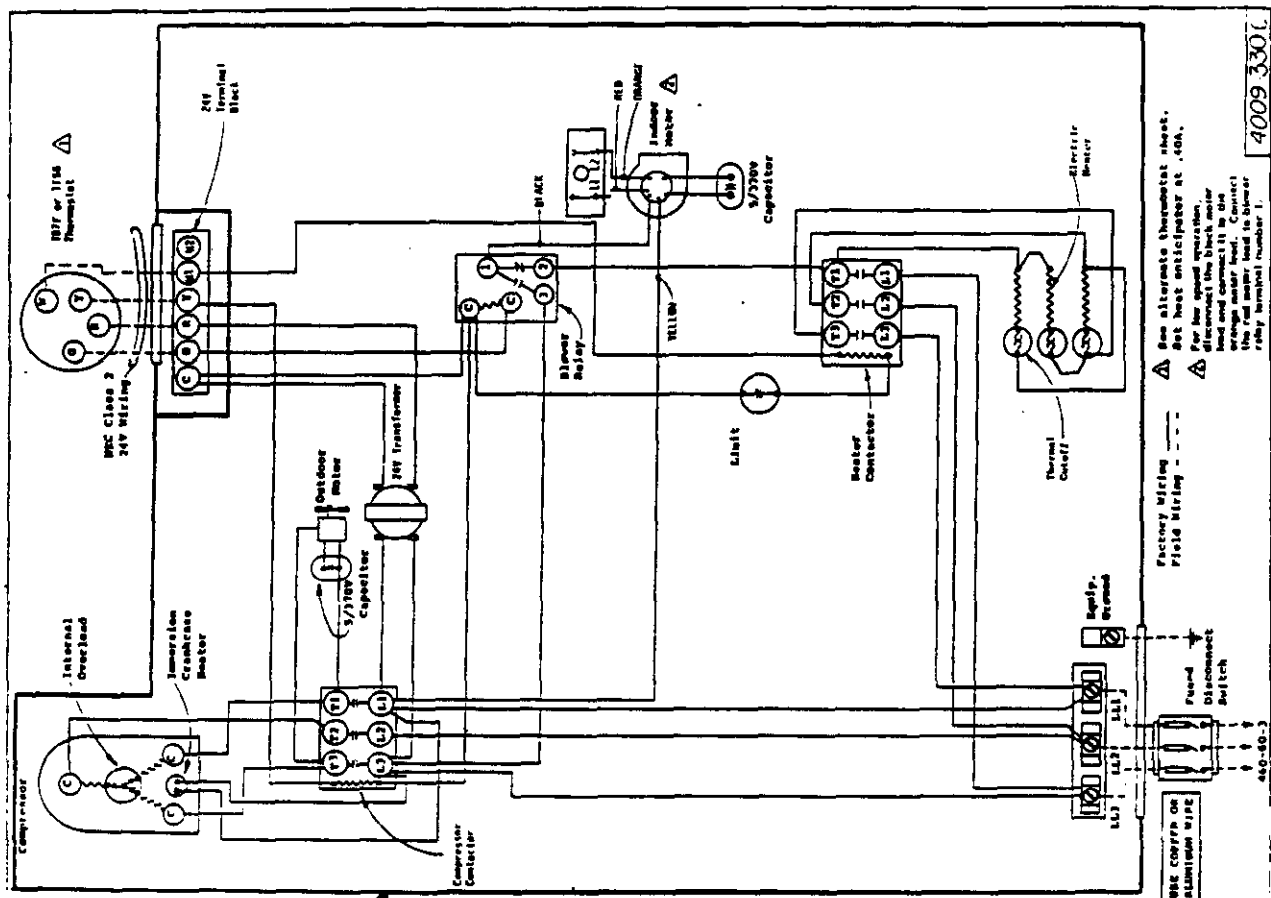
4009231

4009-230L



See alternate thermostat sheet.
 Set heat anticipator at .40A.
 For low speed operation,
 disconnect the blower motor
 lead and connect it to the
 orange motor lead. Connect
 the red motor lead to blower
 relay terminal number 1.

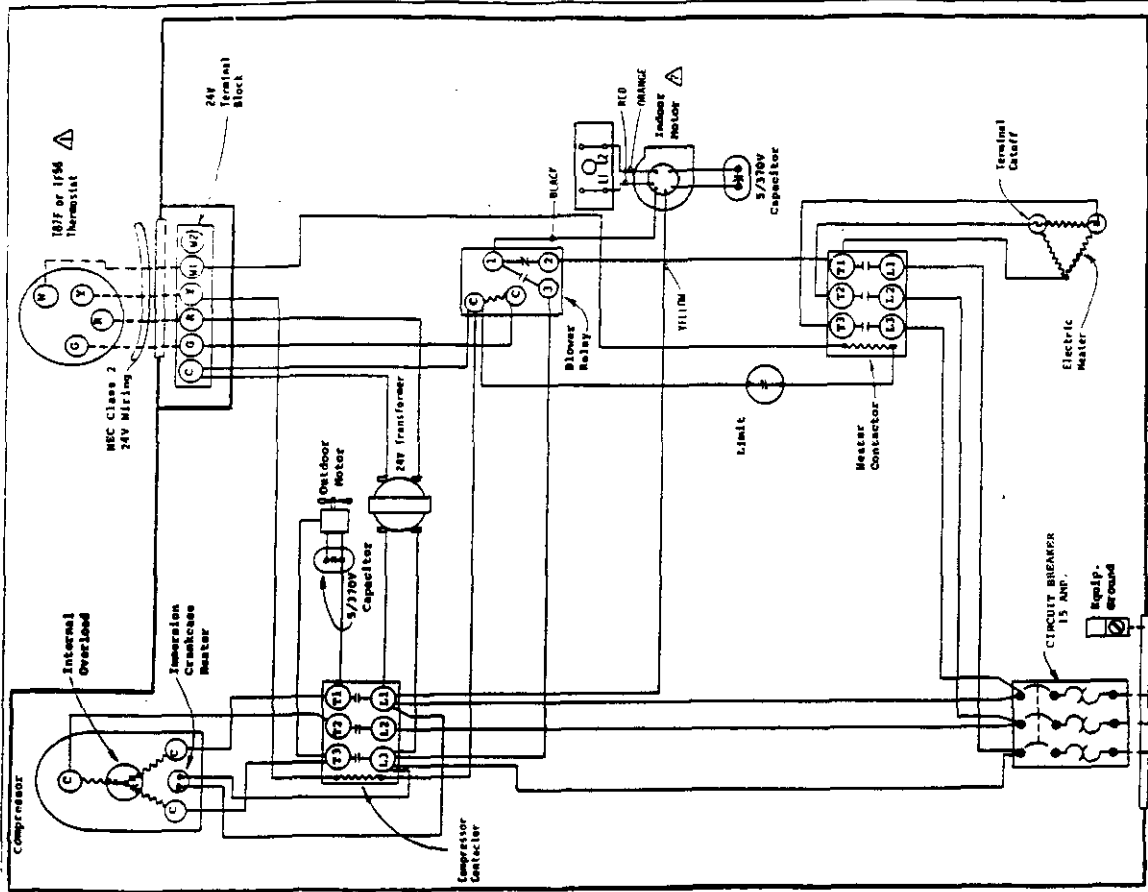
4009 331 A



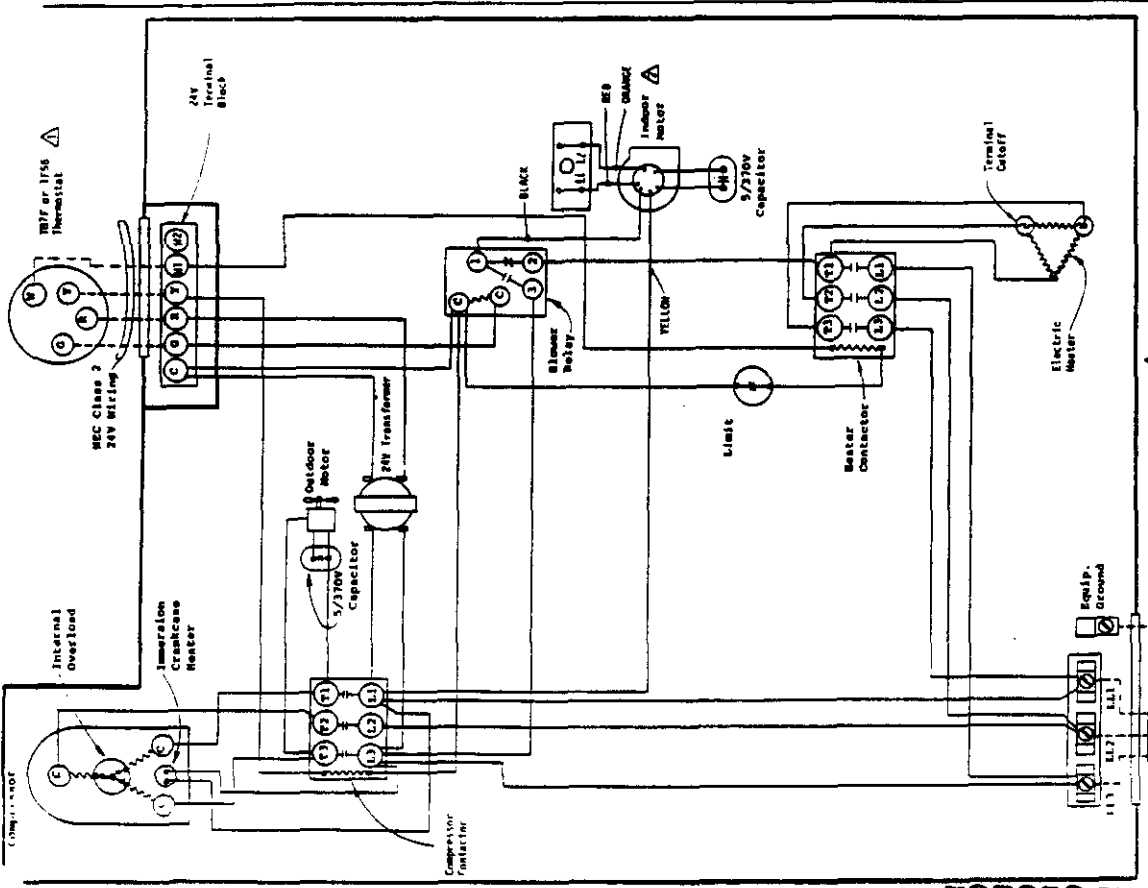
See alternate thermostat sheet.
 Set heat anticipator at .40A.
 For low speed operation,
 disconnect the blower motor
 lead and connect it to the
 orange motor lead. Connect
 the red motor lead to blower
 relay terminal number 1.

4009 330 L

502028



107F or 175K Thermistat
 NEC Class 2 24V Wiring
 24V Terminal Block
 Internal Overload
 Immersion Crankcase Heater
 5/730V Capacitor
 Outdoor Motor
 24V Transformer
 Compressor Contactor
 Blower Relay
 BLACK
 RED
 ORANGE
 Blower Motor
 5/730V Capacitor
 YELLOW
 Limit
 Heater Contactor
 Terminal Cutoff
 Electric Motor
 Terminal Cutoff
 15 AMP
 Equip. Ground
 Factory Wiring - - -
 Field Wiring - - -
 USE COPPER OR ALUMINUM WIRE
 See alternate thermostat sheet.
 Set heat anticipator at .40A.
 For low speed operation, disconnect the black motor lead and connect it to the orange motor lead. Connect the red motor lead to blower relay terminal number 1.
 4009-321



107F or 175K Thermistat
 NEC Class 2 24V Wiring
 24V Terminal Block
 Internal Overload
 Immersion Crankcase Heater
 5/730V Capacitor
 Outdoor Motor
 24V Transformer
 Compressor Contactor
 Blower Relay
 BLACK
 RED
 ORANGE
 Blower Motor
 5/730V Capacitor
 YELLOW
 Limit
 Heater Contactor
 Terminal Cutoff
 Electric Motor
 Terminal Cutoff
 15 AMP
 Equip. Ground
 Factory Wiring - - -
 Field Wiring - - -
 USE COPPER OR ALUMINUM WIRE
 See alternate thermostat sheet.
 Set heat anticipator at .40A.
 For low speed operation, disconnect the black motor lead and connect it to the orange motor lead. Connect the red motor lead to blower relay terminal number 1.
 4009-320

502029