

LENNOX

Industries Inc.

INSTALLATION INSTRUCTIONS

October 1965

500,191M

Supersedes 500,126M

Litho U.S.A.

GAS FIRED FURNACES

G8 AND G9 SERIES UNITS

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INSTALLATION INSTRUCTIONS FOR G8 AND G9 SERIES LENNOX GAS FIRED FURNACES

I - SHIPPING AND PACKING LIST:

1 - Completely assembled furnace with the following parts packed inside:

- 1 - Thermostat
- 1 - Installation Instruction
- 1 - Operating Card
- 1 - Filter securing angle (slab type filters only)
- 1 - Cloth bag with the following packed inside:
 - 4 - Leveling bolts (G8 Series only)
 - 1 - Rubber thermostat wire grommet

II - SHIPPING DAMAGE:

Check unit for shipping damage. The receiving part should contact the last carrier immediately if any shipping damage is found.

III - GENERAL:

These instructions are only intended as a general guide and do not supersede local codes in any way. Authorities having jurisdiction should be consulted before installation.

IV - REQUIREMENTS:

Gas furnaces shall be installed, piped, vented and wired in accordance with the regulation of the National Board of Fire Underwriters, the American Gas Association, Canadian Gas Association and local governing bodies. This unit is A.G.A. and C.G.A. Approved for the clearances to combustible materials listed on the unit nameplate.

ACCESSIBILITY CLEARANCES MUST TAKE PRECEDENCE OVER FIRE PROTECTION CLEARANCES. An accessibility clearance of 28" must be maintained at the front and one side of the unit for servicing and cleaning.

In utility room installations, the door shall be wide enough to allow the largest furnace part to enter, or permit the replacement of another appliance, such as a gas water heater.

Central furnaces, when used in conjunction with cooling units, shall be installed in parallel with or on the upstream side of the cooling units to avoid condensation in the heating element unless the furnace has been specifically approved for downstream installation. With a parallel flow arrangement, the damper (or other means to control the flow of air) shall be adequate to prevent chilled air from entering the furnace and, if manually operated, must be equipped with means to prevent operation of either unit, unless damper is in the full "Heat" or "Cool" position.

The lower, or combustion air ventilating opening, shall be located below burner level and upper, or ventilating air opening, shall be located above the diverter relief opening. Each opening shall contain at least one square inch of face area for each 1,000 Btu of furnace input and in no case, less than 100 square inches. Be sure to check with local ordinances and codes for this requirement. Air circulated by the furnace must not be drawn from this confined space.

Where the furnaces are installed in a confined space within a building having inadequate air filtration, air for combustion and ventilation must be obtained from outdoors. Under these conditions, the two openings shall be approximately equal in size and have a combined area of not less than one square foot per 4,000 Btu of furnace input or in accordance with the methods outlined in the ASA Z21.30-1959- "Installation of Gas Appliances and Gas Piping". Be sure to check with local codes and ordinances for this requirement.

These units are approved and may be adjusted for temperature rises listed on the unit nameplate.

V - LOCATE AND LEVEL THE UNIT:

Set the unit in the desired location, keeping in mind the clearances listed on the unit nameplate. Also, keep in mind, gas supply connections, electrical supply, flue connection and sufficient clearance for installing and servicing the unit.

On G8 Series, install the leveling bolts (furnished), into the tapped holes provided on the corners of the base. Level the unit side to side and front to rear. See Figure 1.

On G9 Series, tapped holes are provided in the corners of the base for leveling, but the leveling bolts (3/8 - 16 x 2") will have to be provided by the installer. The unit may also be leveled by using shims.

VI - INSTALL WARM AIR PLENUM:

If an evaporator unit for additive cooling is added to this furnace, install the evaporator cabinet on the furnace according to the instructions furnished with the evaporator unit. See Figure 2.

The following procedure should be followed when installing the warm air plenum:

A - The bottom edge of the plenum should be hemmed. See Figure 3.

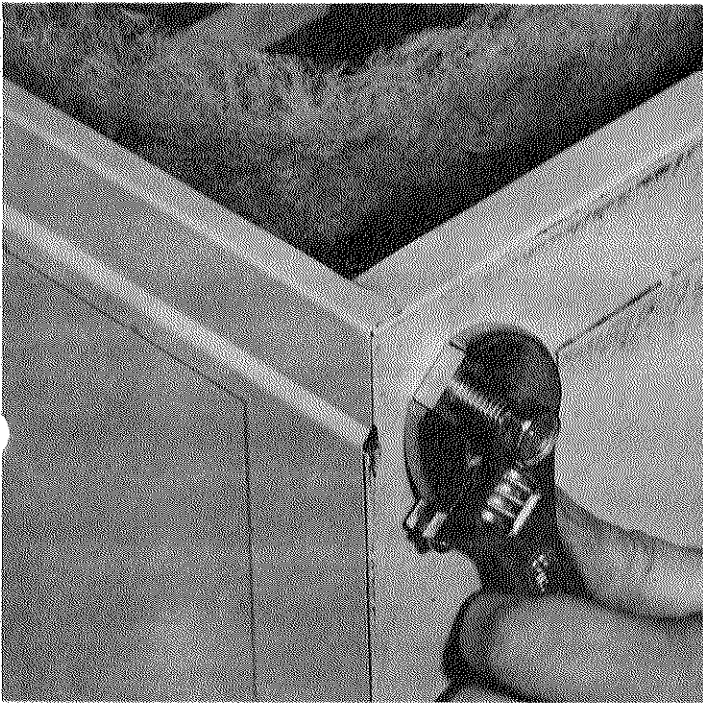


FIGURE 1

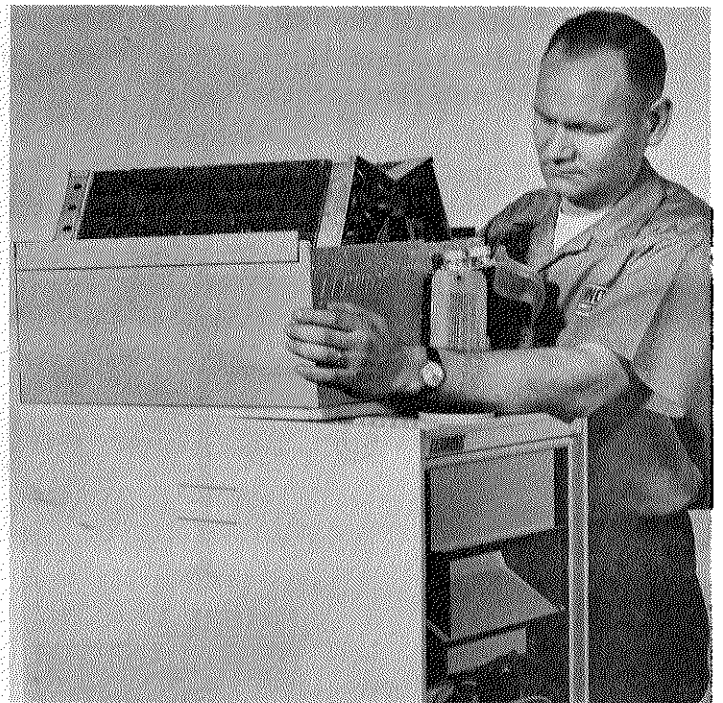


FIGURE 2

B - If desired, asbestos rope or paper can be tucked into the seam before or after the plenum is installed.

C - In all cases, the plenum should be secured to the top flanges of the furnace or evaporator cabinet with No. 7 x 1/2 sheet metal screws.

D - In closet installations, it may be impossible to install sheet metal screws from the outside. If this is the case, make the plenum with a removable front and install screws from the inside. See Figure 4.

E - Install plenum on the furnace or evaporator cabinet as shown in Figures 5 and 6.

VII - CUT OUT RETURN AIR OPENING:

The return air duct can be brought in either side or at the bottom of the unit. Knock-outs are provided showing the outline for the return air opening. See Figure 7. (G81-165 units have knockouts in rear panel and an opening in base). Remove blower access door and cut out the desired opening.

VIII - INSTALL SLAB TYPE FILTERS (G9 Series Only)

After desired return air opening has been cut, secure filter in place with the filter securing angle shipped loose in the cabinet. See Figures 8 and 9.

NOTE - On G9D-82 and G9D-110 units when the return air is brought through the bottom of the unit, a smaller size filter is required - 14" x 25" x 1" for G9D-82 and 18" x 25" x 1" for G9D-110. Also, shorten the securing angle 2" and renotch the end.

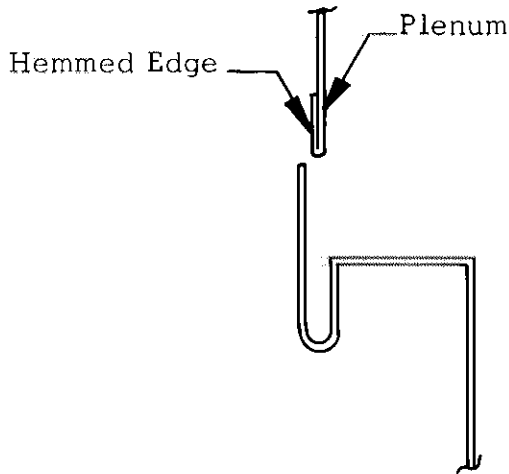


FIGURE 3

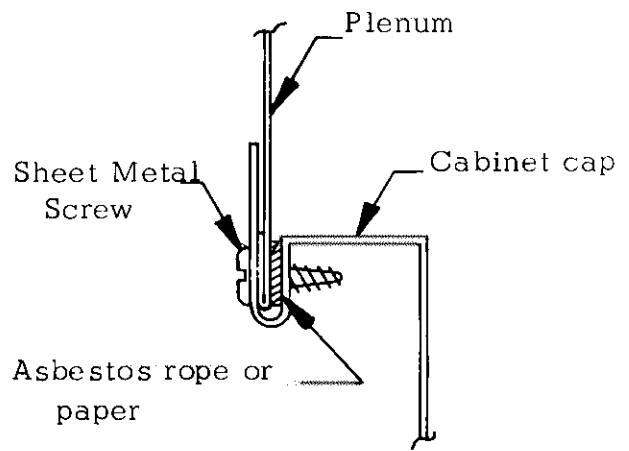


FIGURE 4

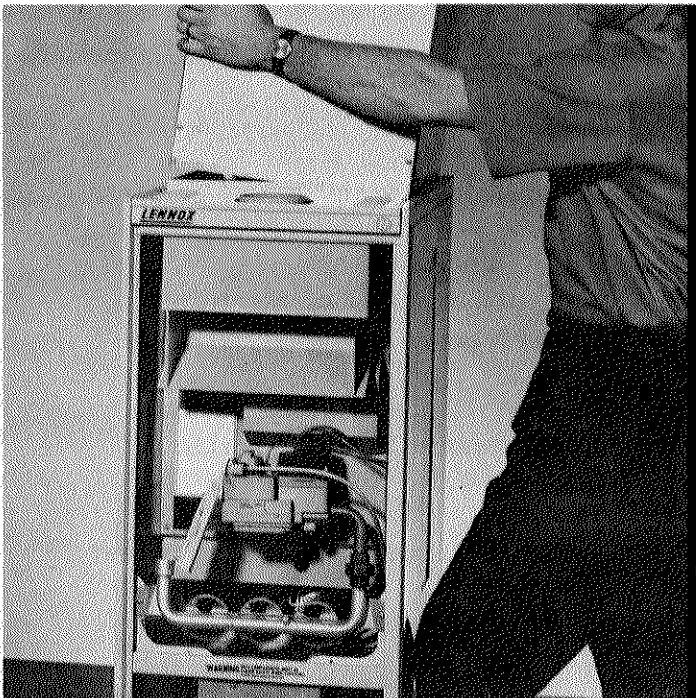


FIGURE 5

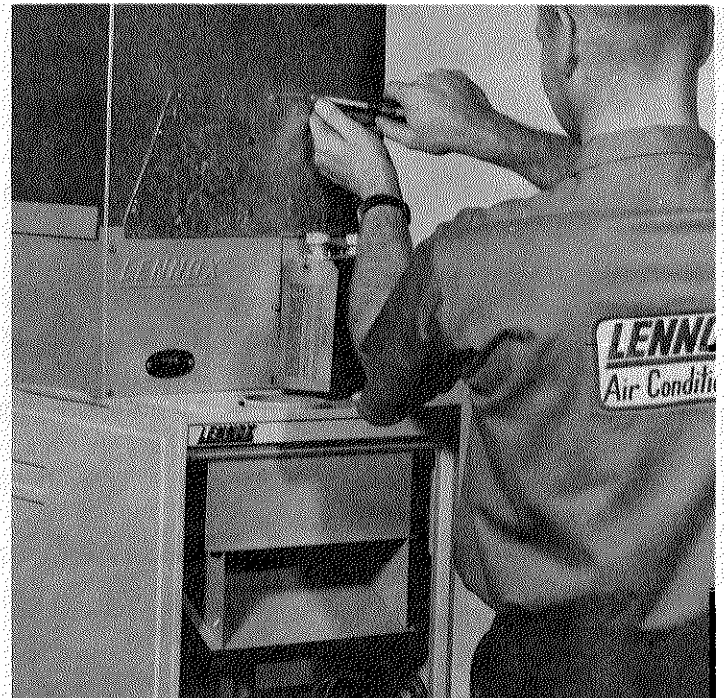


FIGURE 6

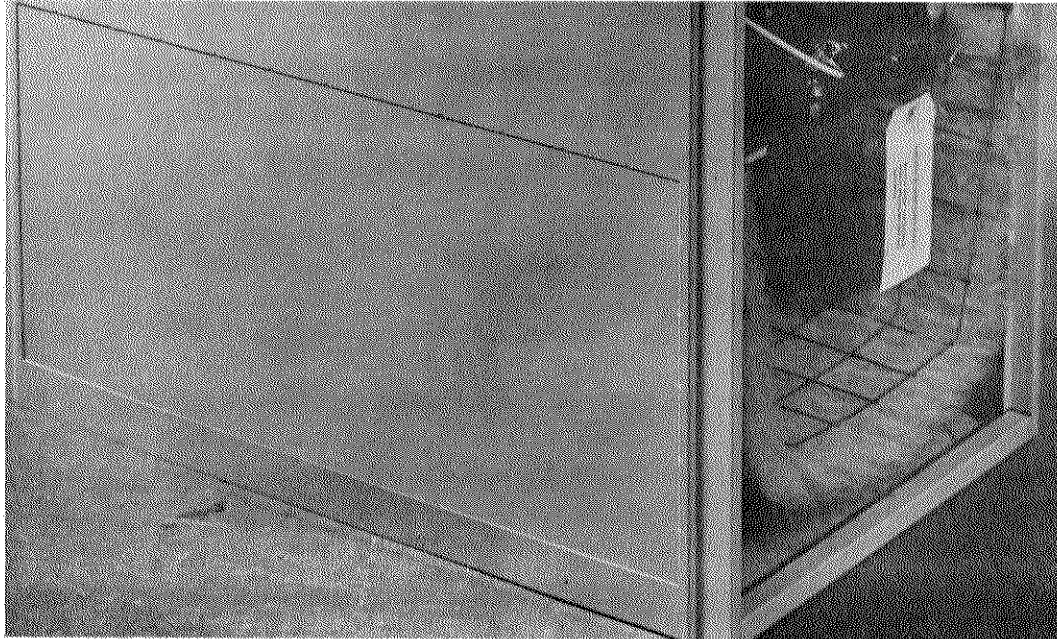


FIGURE 7

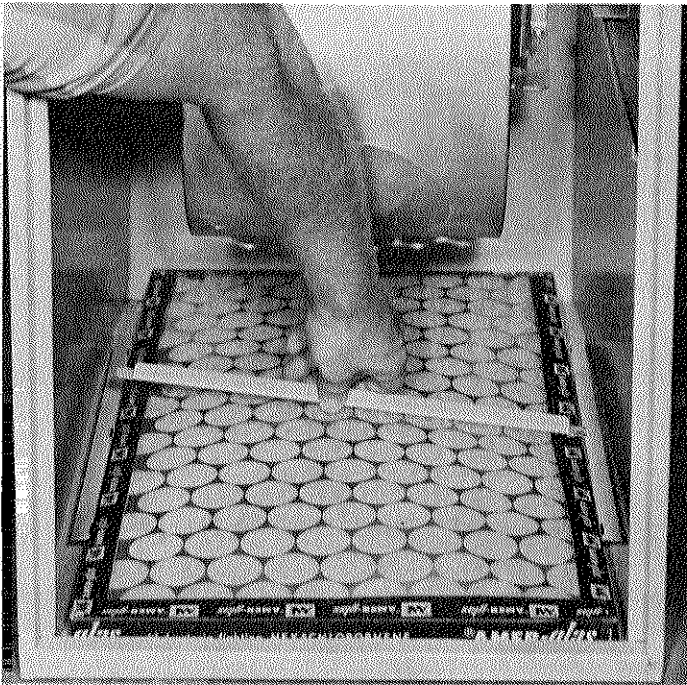


FIGURE 8

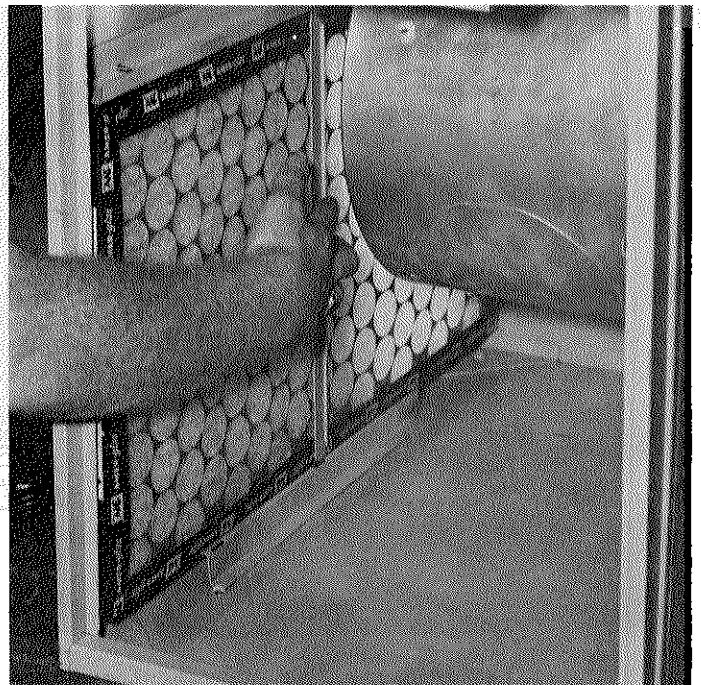


FIGURE 9

IX - INSTALL RETURN AIR PLENUM:

Install return air plenum and secure to the return air opening using No. 7 x 1/2 sheet metal screws.

If a return air cabinet is used, install according to the Installation Instructions furnished with it.

X - CONNECT DUCTWORK:

Install supply and return ductwork as desired.

XI - BLOWER:

Check blower for damage.

No adjustment is necessary on units equipped with direct drive blowers.

If unit is a belt driven model, (G8 Series only) remove the shipping block and banding from motor frame. Remove the blower belt and spin the blower wheel to make sure it floats freely. The blower bearings are self-adjusting and require no adjustment. Check the collars on the blower shaft to make sure they are tight. See Figure 10. Replace the blower belt and adjust belt tension so that the belt is as loose as possible, without allowing slippage as illustrated in Figure 11.

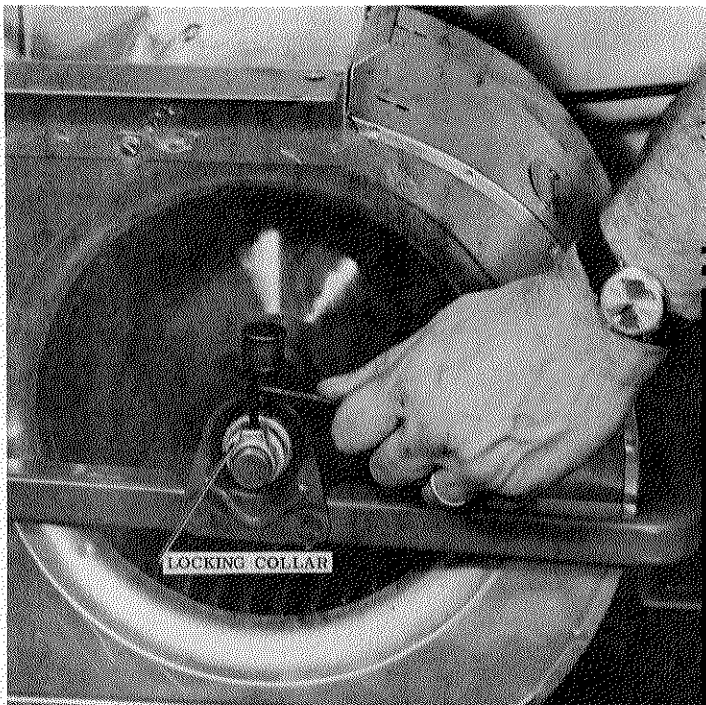


FIGURE 10

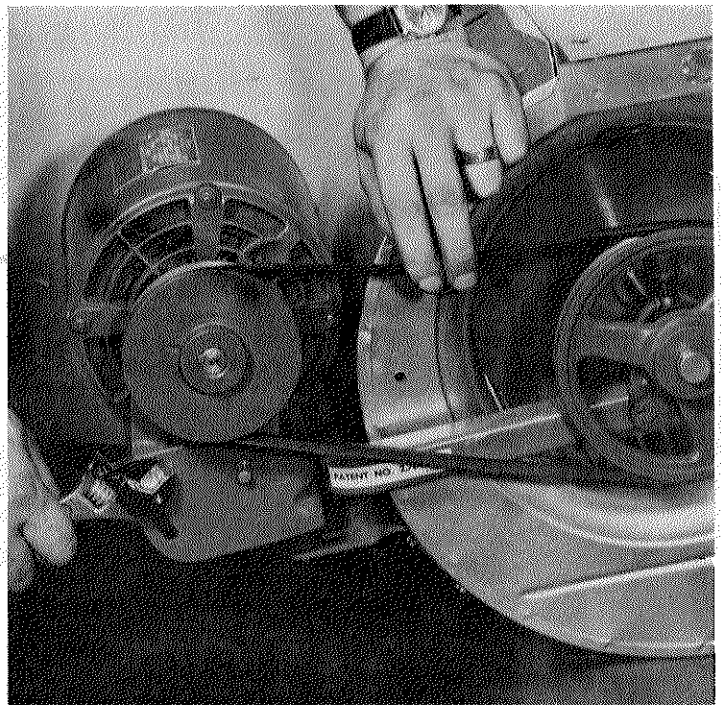
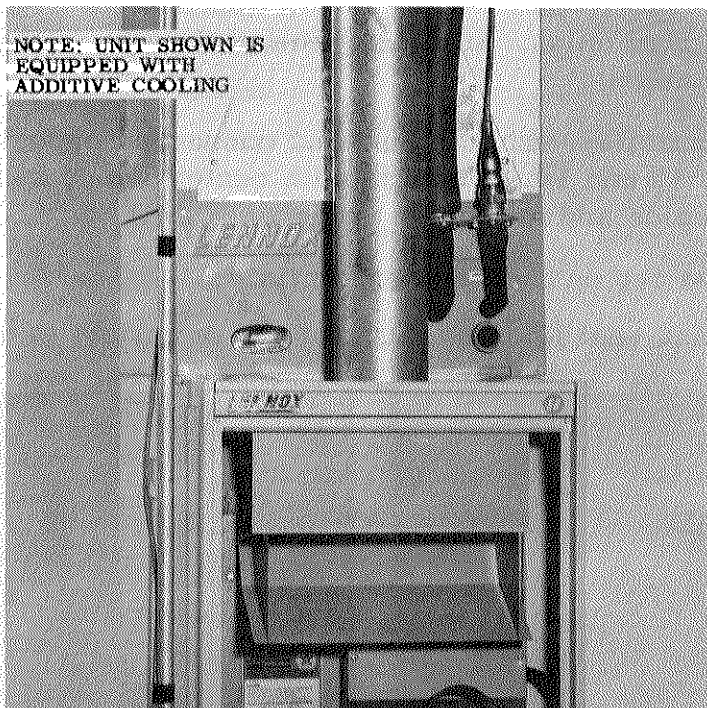


FIGURE 11

XII - CONNECT FLUE:

Install flue pipe or adaptor, if provided, over the collar on the cabinet cap and connect to the chimney using the least number of elbows and angles possible. See Figure 12. The flue pipe should have a slight upward slope toward the chimney on all horizontal runs. (1/4" for each one foot of run). The flue pipe or vent

connector must be inserted into, but not beyond, the outside wall of the chimney flue. Where two or more appliances vent into a common flue, the area of the common flue should be at least equal the area of the largest flue or vent connector plus 50% of the combined area of the additional flues or vent connectors.



XIII - HIGH ALTITUDE

FIGURE 12

Units may be fired at full input up to 2000 feet above sea level. If unit is installed at altitudes higher than 2000 feet, then derate 4% for each 1000 feet above sea level.

XIV - ORIFICE CHANGE (G81-65-82 AND G81-85-110 UNITS ONLY):

These units are equipped with main burner orifices for 82,000 Btu (G81-65-82) and 110,000 Btu (G81-85-110) input ratings. Orifices necessary for 65,000 Btu and 85,000 Btu ratings are attached to the manifold and should replace the orifices installed if the lower ratings are desired. Install orifices as follows:

Remove manifold union, (2) screws holding manifold in place and high Btu orifices. Install new orifices and replace manifold.

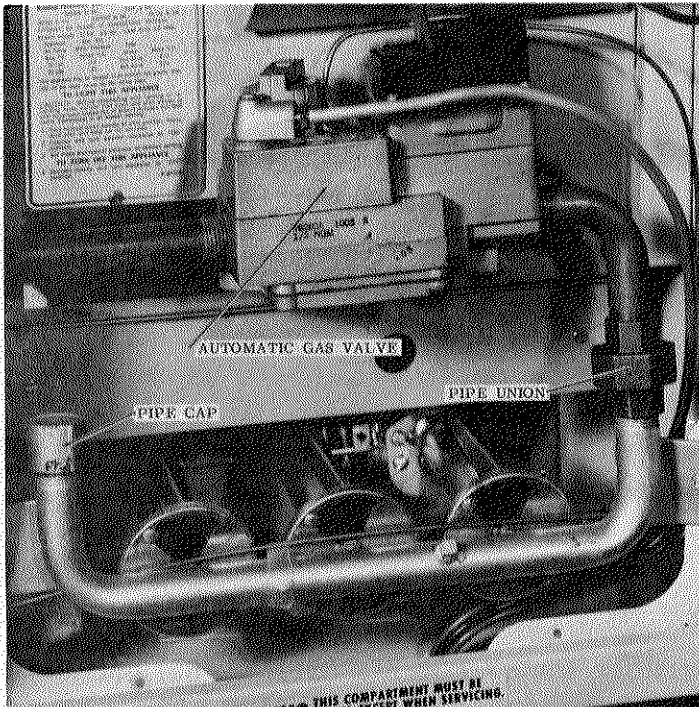
XV - CONNECT GAS SUPPLY:

This unit is shipped standard for the piping to be installed through the left side of the unit. See Figure 13. All that is necessary for the installer to do is connect the gas supply to the piping assembly.

If it is necessary to bring piping through the right side of unit, use the following procedures:

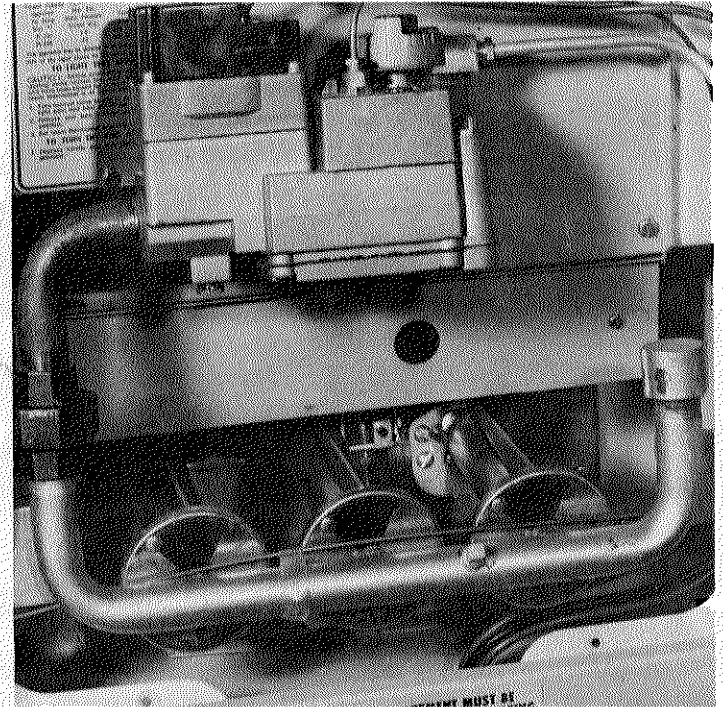
A - G8 Series (Belt Drive Only)

- 1 - Remove pipe cap from left end of manifold.
- 2 - Disconnect pilot and vent lines from gas valve.
- 3 - Disconnect pipe union. (On units with pipe union in the center of manifold, just loosen union).
- 4 - Turn gas control assembly around and connect at opposite end of manifold. See Figures 13 and 14. (On units with center union, swing control assembly to opposite side and re-tighten union).
- 5 - Replace pipe cap on right end of manifold.
- 6 - Bend pilot and vent lines as required and reconnect to gas valve.



Standard Piping (G8 Series)

FIGURE 13



Reversed Piping (G8 Series)

FIGURE 14

B - G8D, G8Q, G9D and G9Q Series Units

- 1 - A piping hole is furnished in right side of unit. See Figure 15 for a suggested routing of piping.

When connecting the gas supply, the length of run from the meter must be considered in determining the pipe size so as to avoid excessive pressure drop. For correct sizing of gas delivering piping, consult booklet "Specifications for Installations of Gas Piping and Gas Appliances" issued by the utility having jurisdiction.

A drip leg must be installed in any vertical section of the pipe line. See Figure 15.

In some localities codes may require that a manual main shutoff valve and union (furnished by the installer) be installed externally to the cabinet. If this is the case, simply install the manual main valve and union in the gas line outside the unit, then finish connecting the piping to the controls.

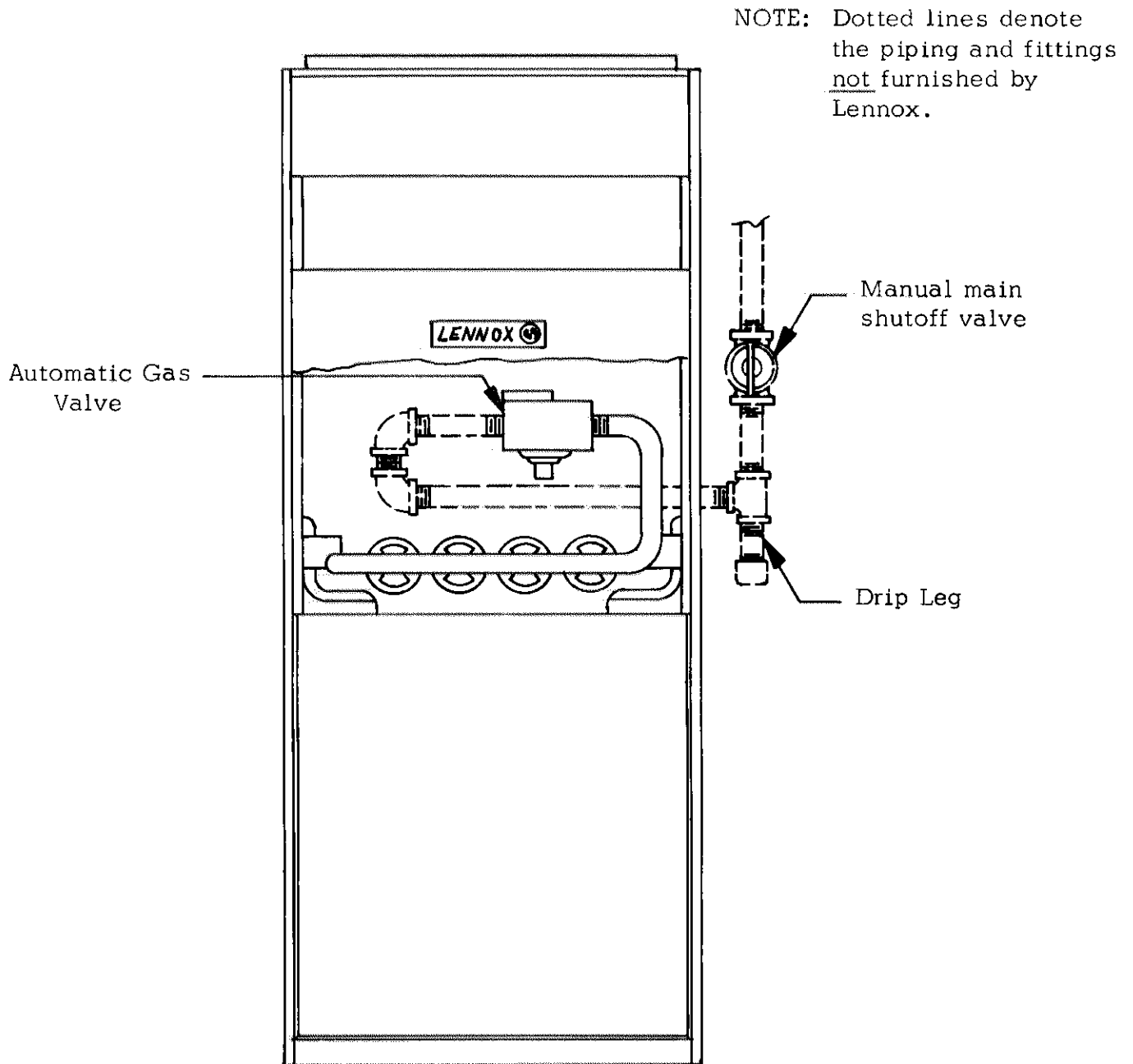


FIGURE 15

XVI - COMPLETE WIRING:

A - Install thermostat provided. Thermostat locations to be avoided are listed below:

- 1 - Outside walls.
- 2 - Areas where radiant heat will affect thermostat.

After thermostat is installed and wired, set adjustable heat anticipation on thermostat according to the thermostat sticker furnished.

B - Install a separate fused disconnect switch near the furnace so that the power supply can be turned off for servicing. Disconnect switch should be fused according to blower motor size.

C - Complete wiring from thermostat and disconnect switch through wiring knockouts in either side panel of the unit and into transformer box. See Figure 16 Wire according to the wiring diagram provided inside the control box.

D - If cooling is added, the fan relay furnished with the condensing unit must be installed. Knockouts are provided in the transformer box for mounting the fan relay. Use the knockout that is best suited to the installers particular installation. Figure 17 shows a typical location. Complete wiring for cooling according to the particular wiring diagram furnished in this instruction.

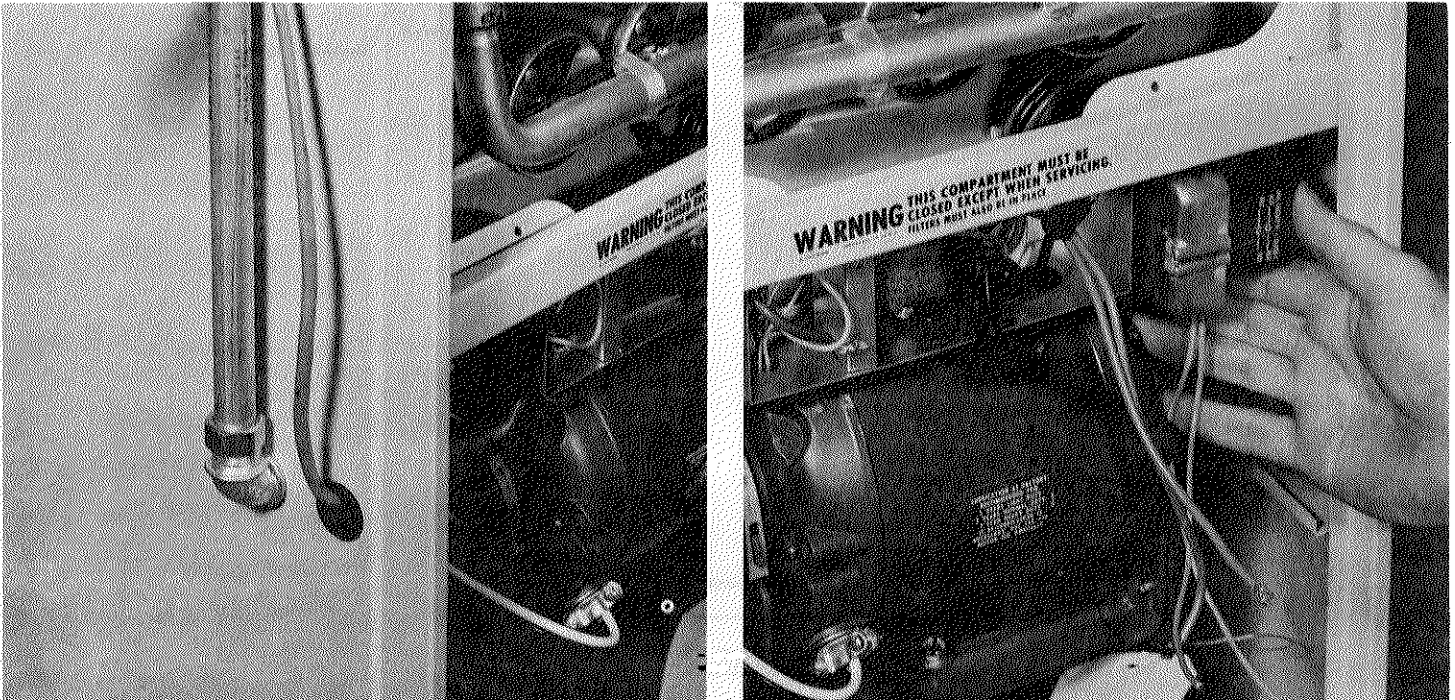


FIGURE 16

FIGURE 17

XVII - EVAPORATOR CONNECTIONS (G82 SERIES ONLY):

On G82 Series units, space is provided in the cabinet for an evaporator coil.

Knockouts are provided in the cabinet cap for making refrigerant line connections.

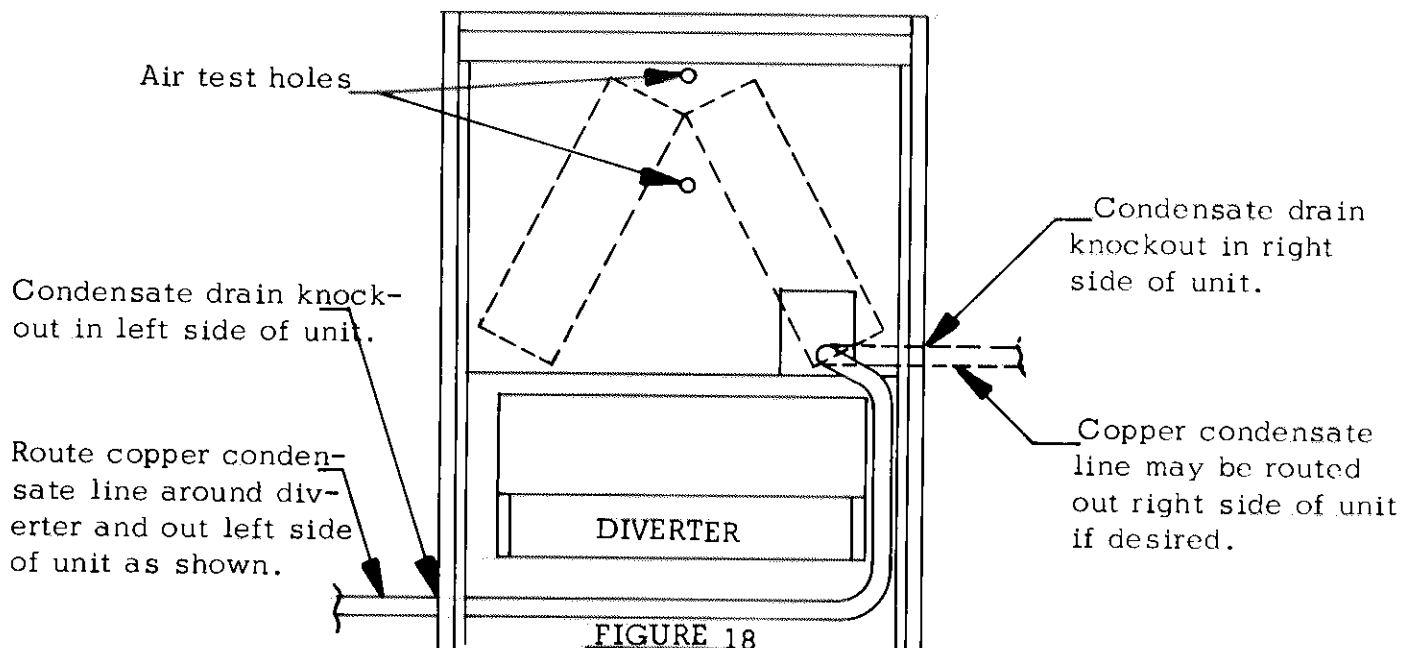
If the evaporator coil is shipped with the unit, simply route liquid and suction lines through knockouts provided and connect to the evaporator coil according to the instructions furnished with the line sets.

If condensing unit is not connected to the evaporator before the furnace is fired, the coil should either be removed or some of the refrigerant released. This will prevent expansion of the refrigerant during heating with a subsequent possibility of bursting the coil. To remove the coil, remove the access panels and pull the coil out of the unit. The refrigerant does not have to be released when the coil is removed.

To release a portion of the refrigerant, remove the dust cap or rubber plug from one of the connections. Depress the valve core until enough refrigerant is released to leave only a slight positive refrigerant pressure in the coil. This loss of refrigerant will have to be considered when completing the cooling installation.

XVIII - CONNECT CONDENSATE DRAIN (G82 SERIES ONLY):

Braze a copper condensate line to the 7/8" copper drain connection on the drain pan. Route the drain out either side of the unit through knockouts provided. See Figure 18. Pitch drain downward to an open drain or sump. Never connect drain to a closed system.



XIX - ADJUSTMENT OF BLOWER SPEEDS (G82 SERIES ONLY):

It is very important that the proper air volume be provided over the evaporator coil. Table 1 shows a range of air volumes and equivalent draft gauge readings for this unit. The draft gauge reading for each air volume is given in a range reading. The blower motor speed should be adjusted so that the static pressure reading falls within the range shown in Table 1 for the air volume required.

TABLE 1

DRAFT GAUGE READINGS (DRY COIL)		
UNIT	CFM	READINGS (In. Water)
G82D1-55	500	.04 - .05
	600	.06 - .07
	675	.08 - .09
G82D1-82	800	.06 - .07
	900	.07 - .08
	1000	.08 - .09

To start blower motor, use the following procedure:

Move fan switch to "cont." position, roll thermostat dial to highest setting and move system switch to "cool" position. Close disconnect switch. Blower will start.

Two air test holes are provided in the access panel for draft gauge readings. See Figure 18. Remove the snap hole plugs and connect draft gauge.

With blower motor running, observe draft gauge reading. If reading is below range selected in Table 1, blower speed must be increased. If reading is above range selected, blower speed must be reduced. Adjust speed controller accordingly. Refer to wiring diagram on blower compartment make-up box for direct drive blower speed.

After required draft gauge reading is obtained, remove draft gauge and replace snap hole plugs. Turn off blower motor and open disconnect switch.

XX - LEAK CHECK PIPING:

Before lighting the burner, carefully check all piping connections for gas leaks. Use a soap solution or other preferred means.

CAUTION: DO NOT USE MATCHES, CANDLES, FLAME OR OTHER SOURCES OF IGNITION TO CHECK FOR GAS LEAKS.

XXI-START THE UNIT:

- A - Set the thermostat below room temperature.
- B - Replace blower access door.
- C - Open manual gas valve and pilot valve (if used).
- D - Light unit according to the Lighting Instructions on the A.G.A. Nameplate and the Operating Instruction Card.
- E - Turn on electrical power to the unit.
- F - Set thermostat dial on desired temperature.

XXII-ADJUSTMENTS:

- A - Air shutters (when furnished) are factory set for maximum efficiency. Do not change settings unless operation is unsatisfactory. Minor adjustments for flame lifting, burner noise, etc., may be necessary.
- B - For a TOTAL COMFORT SYSTEM, the blower on your system should run continuously. This will insure constant freshening and temperature leveling, resulting in unequaled comfort throughout your home. Air from each room is constantly removed, reconditioned and circulated throughout the home. Each room will have a complete change of filtered air at least four times an hour, virtually eliminating stuffy and stagnant rooms. Minor additional cost in operating the blower constantly will be offset by the comfort result throughout the home.

Care should be taken that diffusers and grilles are located so that they do not blow directly on the room occupants.

For a brochure listing the many benefits of the TOTAL COMFORT SYSTEM, write Lennox Industries Inc., Box 250, Marshalltown, Iowa

- C - Adjust the blower speed for the proper air temperature rise (listed on the A.G.A. nameplate). To measure this temperature rise, place plenum thermometers in the warm air and return air plenums. Locate the thermometer in the warm air plenum where the thermometer will not "see" the heat exchanger, thus picking up radiant heat. Turn up thermostat as high as possible to start the unit. After plenum thermometer has reached its highest and steadiest reading, subtract the reading of the return air thermometer from the warm air thermometer. The difference should be in the range listed on the A.G.A. Nameplate. If this temperature is low, open adjustable pulley for belt drive unit, or wire the direct drive blower to a slower speed controller wire. If this temperature is high, close adjustable pulley for belt drive unit or select higher speed on speed controller for direct drive blowers. Repeat either of these procedures until desired setting in this range is obtained.
- D - To check for proper flow of gas into the combustion chamber, determine the Btu input from the A.G.A. nameplate on the front panel of the unit. Divide this input rating by the Btu per cubic foot of available gas. Result is a

number of cubic feet per hour required. Determine the flow of gas through the gas meter for two minutes and multiply by 30 to get the hourly flow of gas to the burner. Make sure that all other gas equipment connected to the meter is shut off when making this test.

- E - To adjust pressure regulator on the automatic gas valve, remove cap on top of the regulator. Turn adjusting screw out to decrease pressure, turn in to increase pressure.

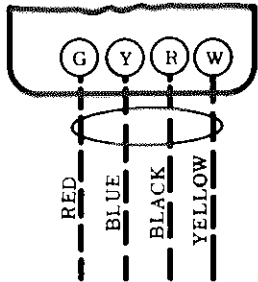
XXIII- MAINTENANCE:

- A - An operating and maintenance card and warranty are mounted permanently in each furnace. Acquaint the home owner with the maintenance card and warranty, so they can be referred to periodically.
- B - Complete filter replacement instructions are provided on a sticker on the blower access door and on the operating instruction card.
- C - Complete instructions for lubrication of the blower and motor are provided on the blower access door and on the operating instruction card.
- D - The furnace heat exchanger should periodically be cleaned for satisfactory furnace operation. To clean, use the following procedure:

Remove the flue pipe and cabinet cap. Loosen the (4) screws securing the diverter. Lift diverter up and remove. Reach into the heat exchanger flue opening and bend up tabs holding the "V" shaped baffles in place. Now remove the baffles from heat exchanger. Clean heat exchanger with a flexible handled wire brush or some other preferred method. After cleaning, replace "V" baffles, diverter, cabinet cap and flue pipe.

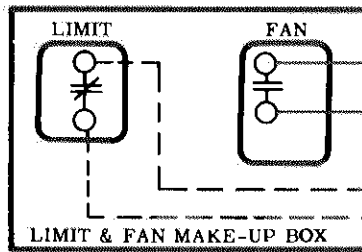
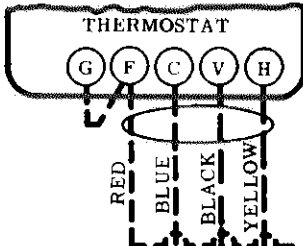
THESE INSTRUCTIONS SHALL BE HUNG
WITH THE OPERATING INSTRUCTIONS
NEAR THE FURNACE.

ALTERNATE THERMOSTAT



NOTE-
JUMPER TERMINAL "G" TO "F"
WHEN CONTROL OF HEATING
BLOWER AT THERMOSTAT IS
DESIRED.

GENERAL CONTROLS T90H



LIMIT & FAN MAKE-UP BOX

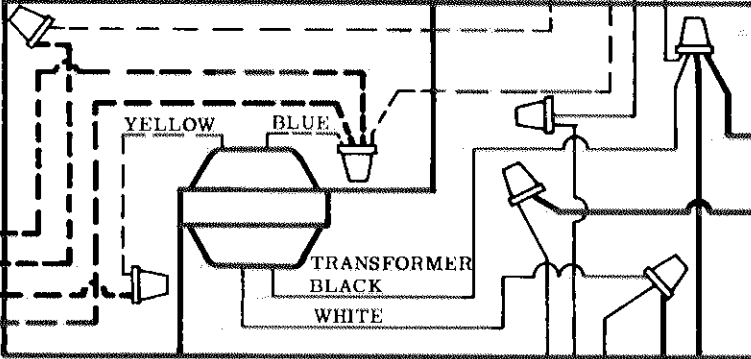
NOTE-
IF ANY OF THE ORIGINAL
WIRE SUPPLIED WITH THIS
APPLIANCE MUST BE RE-
PLACED, IT MUST BE RE-
PLACED WITH 105°C WIRE
OR IT'S EQUIVALENT.

AUTOMATIC MAIN
CONTROL VALVE



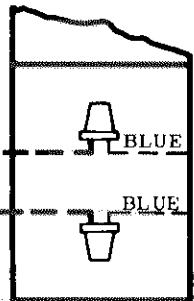
FAN RELAY CONTACT RATING	
3/4 HP AT	120 V
1-1/2 HP AT	230 V

BLOWER COMPARTMENT MAKE-UP BOX

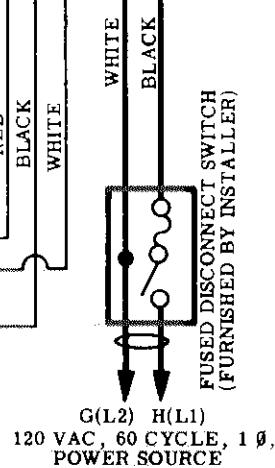
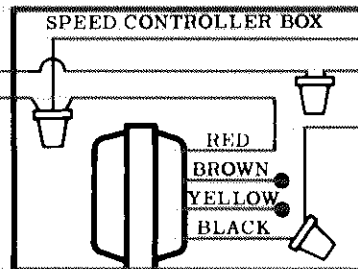
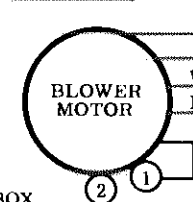
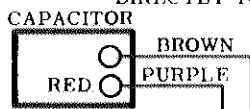


NOTE-
SPEED CONTROLLER IS FACTORY WIRING FOR LOW
BLOWER SPEED, IF MEDIUM SPEED IS REQUIRED,
INTERCHANGE THE RED AND YELLOW SPEED
CONTROLLER WIRES. IF MEDIUM HIGH SPEED IS
REQUIRED, INTERCHANGE THE RED AND BROWN
SPEED CONTROLLER WIRES. IF MAXIMUM SPEED
IS DESIRED, CONNECT THE BLACK BLOWER LEAD
DIRECTLY TO THE BLACK POWER LEAD.

NOTE-
SPlice TO LOW VOLTAGE
LEADS IN HS6 JUNCTION
BOX AS INDICATED.



HS6 OR HS7 JUNCTION BOX

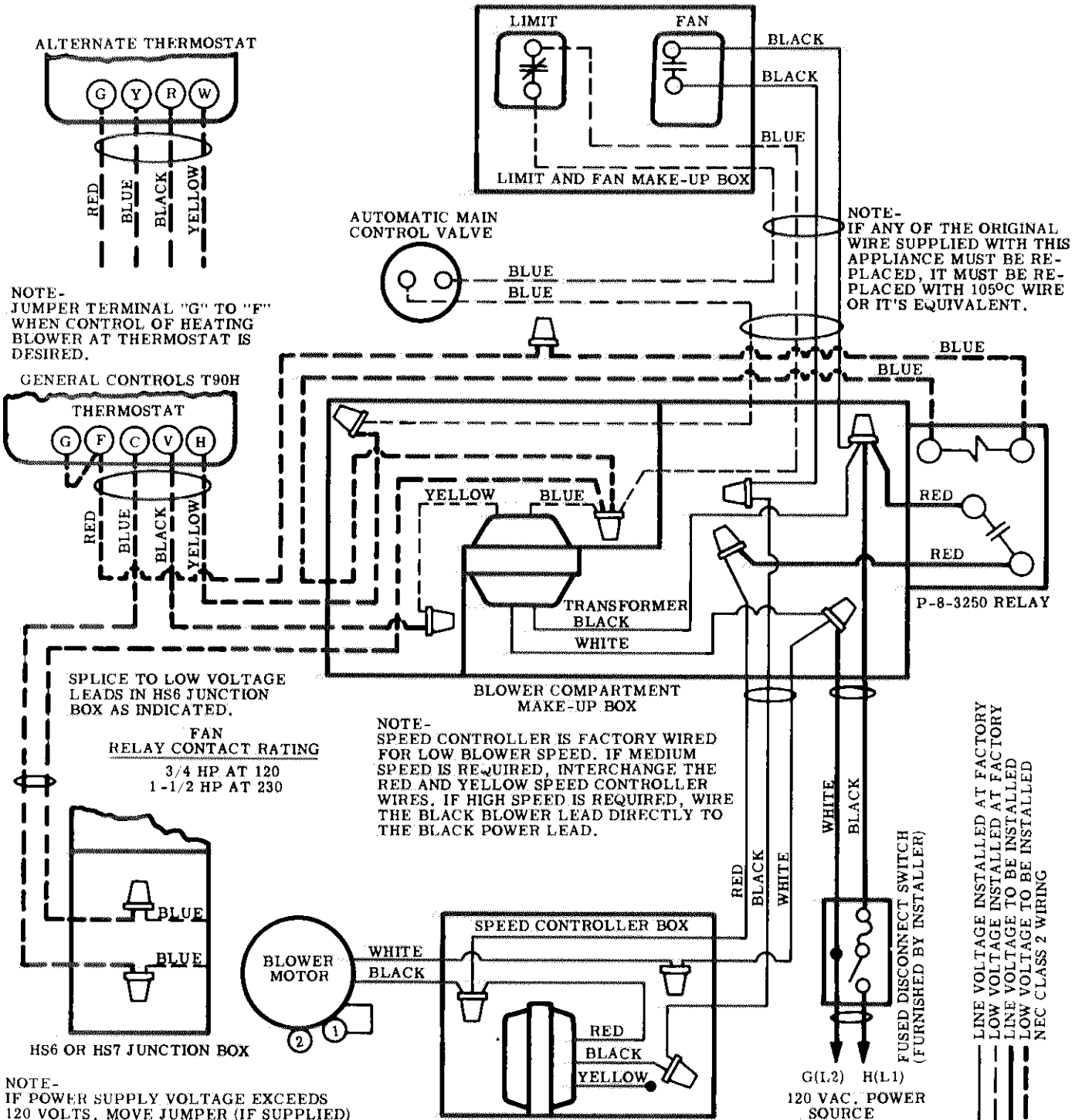


LINE VOLTAGE INSTALLED AT FACTORY
LOW VOLTAGE INSTALLED AT FACTORY
LINE VOLTAGE TO BE INSTALLED
LOW VOLTAGE TO BE INSTALLED-
NEC CLASS 2 WIRING

NOTE-
IF POWER SUPPLY VOLTAGE EXCEEDS
120 VOLTS, MOVE JUMPER (IF SUPPLIED)
ON MOTOR FROM TERMINAL # 1 TO
TERMINAL # 2.

SEE INDIVIDUAL DIAGRAMS
FOR CONDENSING UNIT WIRING

G8Q2-110, G8Q2-82
WITH ADDITIVE COOLING
520.119 W



NOTE-
JUMPER TERMINAL "G" TO "F"
WHEN CONTROL OF HEATING
BLOWER AT THERMOSTAT IS
DESIRED.

GENERAL CONTROLS T90H

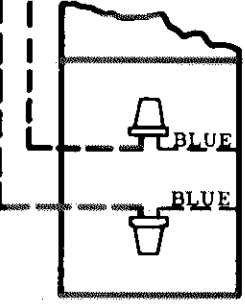
THERMOSTAT

G F C V H

RED BLUE BLACK YELLOW

SPLICE TO LOW VOLTAGE
LEADS IN HS6 JUNCTION
BOX AS INDICATED.

FAN
RELAY CONTACT RATING
3/4 HP AT 120
1-1/2 HP AT 230



HS6 OR HS7 JUNCTION BOX

NOTE-
SPEED CONTROLLER IS FACTORY WIRED
FOR LOW BLOWER SPEED. IF MEDIUM
SPEED IS REQUIRED, INTERCHANGE THE
RED AND YELLOW SPEED CONTROLLER
WIRES. IF HIGH SPEED IS REQUIRED, WIRE
THE BLACK BLOWER LEAD DIRECTLY TO
THE BLACK POWER LEAD.

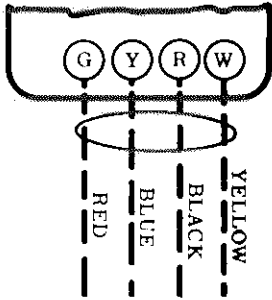
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120 VOLTS, MOVE JUMPER (IF SUPPLIED)
ON MOTOR FROM TERMINAL #1 TO
TERMINAL #2.

SEE INDIVIDUAL DIAGRAMS
FOR CONDENSING UNIT WIRING

LINE VOLTAGE INSTALLED AT FACTORY
LOW VOLTAGE INSTALLED AT FACTORY
LINE VOLTAGE TO BE INSTALLED
LOW VOLTAGE TO BE INSTALLED
NEC CLASS 2 WIRING

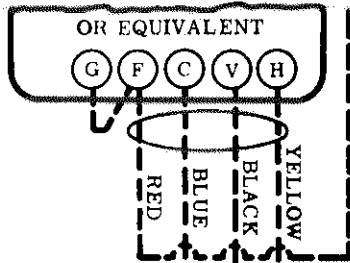
G8DI-110
G8DI-82, G82DI-82
WITH ADDITIVE COOLING
520.121 W

ALTERNATE THERMOSTAT

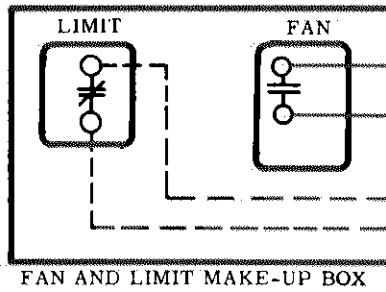
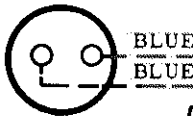


NOTE - JUMPER TERMINAL "G" TO "F" WHEN CONTROL OF HEATING BLOWER AT THERMOSTAT IS DESIRED.

GENERAL CONTROLS T90H THERMOSTAT

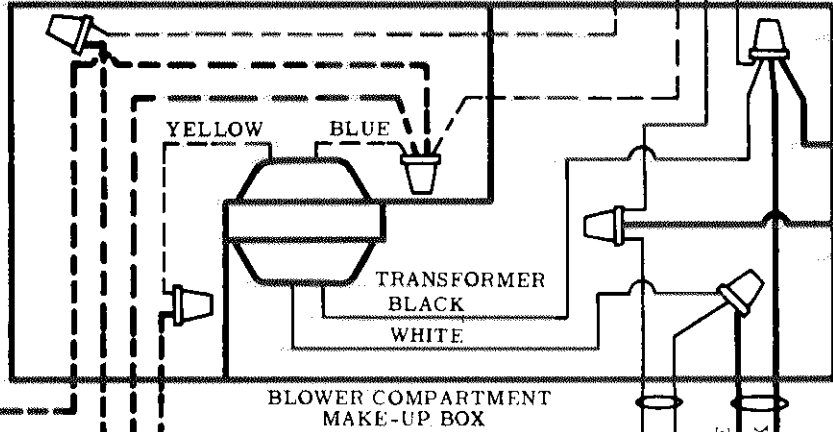


AUTOMATIC MAIN CONTROL VALVE



FAN AND LIMIT MAKE-UP BOX

NOTE - IF ANY OF THE ORIGINAL WIRE SUPPLIED WITH THIS APPLIANCE MUST BE REPLACED, IT MUST BE REPLACED WITH 105° C WIRE OR IT'S EQUIVALENT.

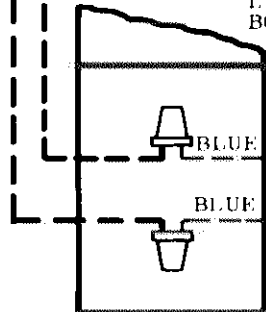


BLOWER COMPARTMENT MAKE-UP BOX

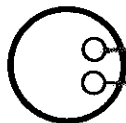
SPLICE TO LOW VOLTAGE LEADS IN HS6 JUNCTION BOX AS INDICATED.

FAN RELAY CONTACT RATING
3.4 HP AT 120
1-1.2 HP AT 230

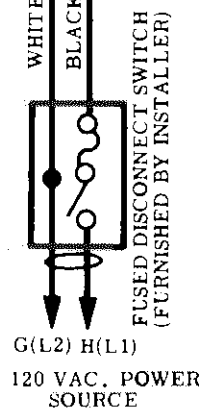
SEE INDIVIDUAL DIAGRAMS FOR CONDENSING UNIT WIRING.



HS6 OR HS7 JUNCTION BOX



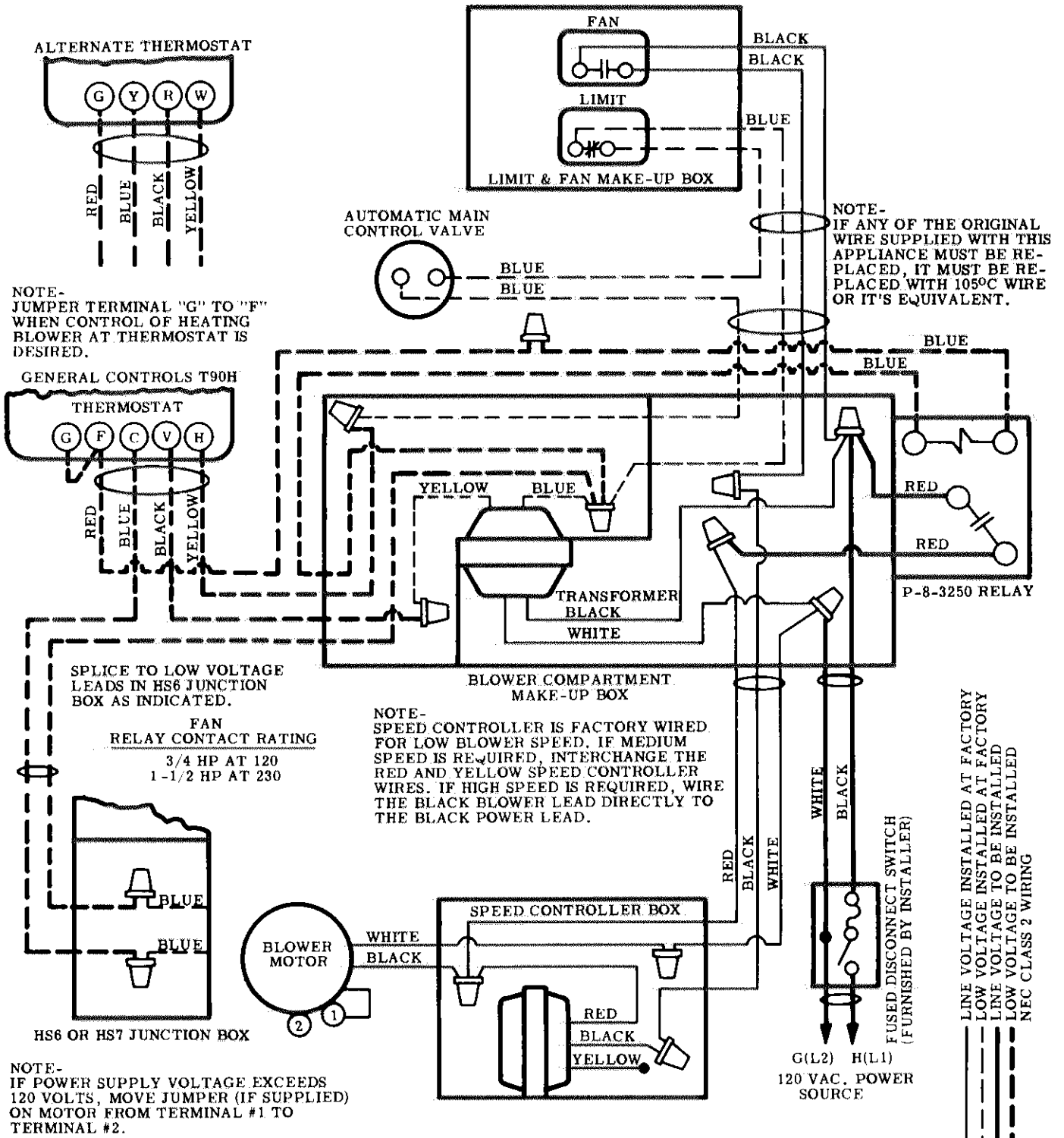
BLOWER MOTOR



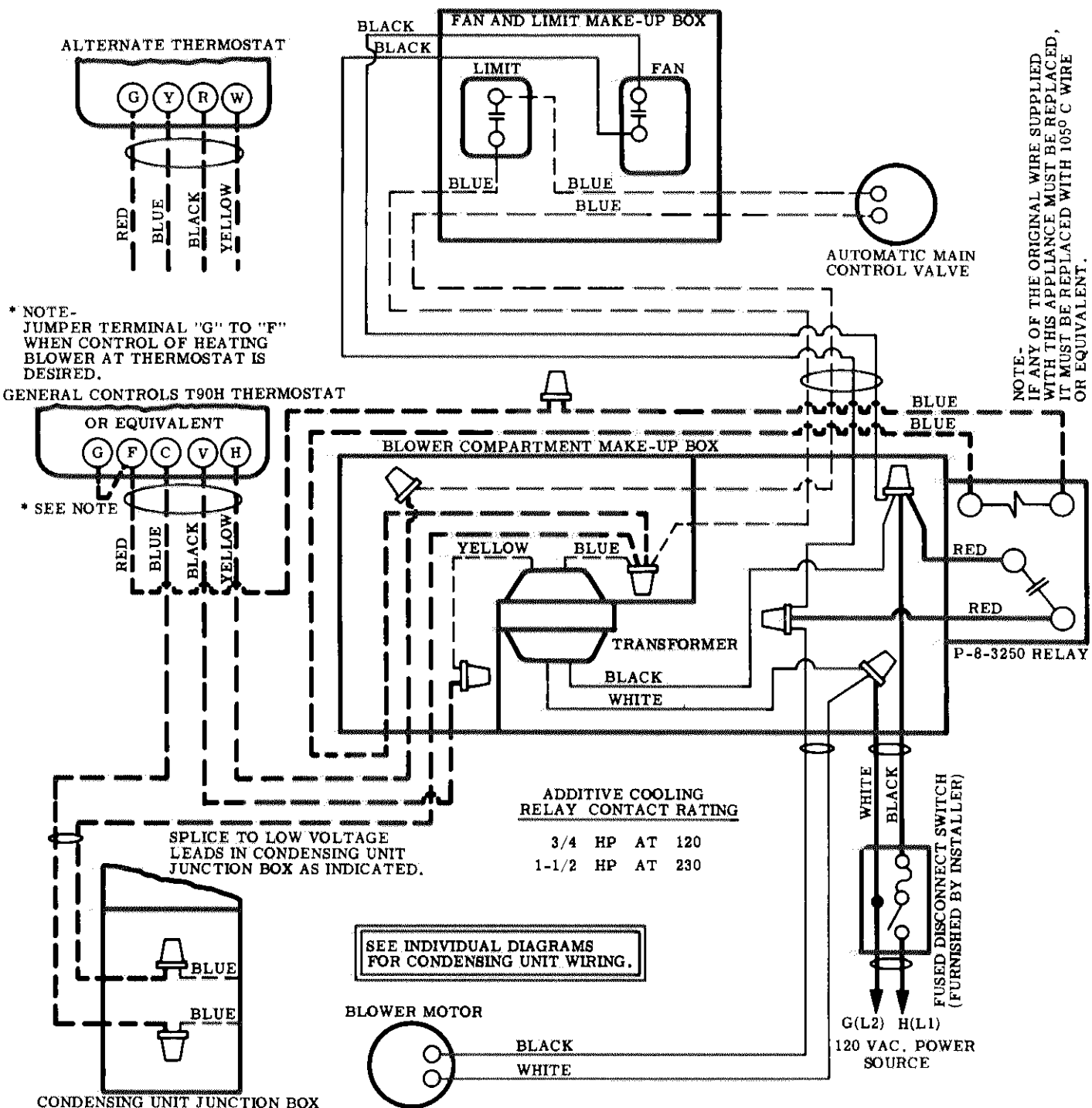
120 VAC. POWER SOURCE

G8-82, G8-110
WITH ADDITIVE COOLING
CONDENSING UNIT WITHOUT TRANSFORMER
WD-64186-L4

- LINE VOLTAGE INSTALLED AT FACTORY
- - - LOW VOLTAGE INSTALLED AT FACTORY
- LINE VOLTAGE TO BE INSTALLED
- - - LOW VOLTAGE TO BE INSTALLED
- NEC CLASS 2 WIRING

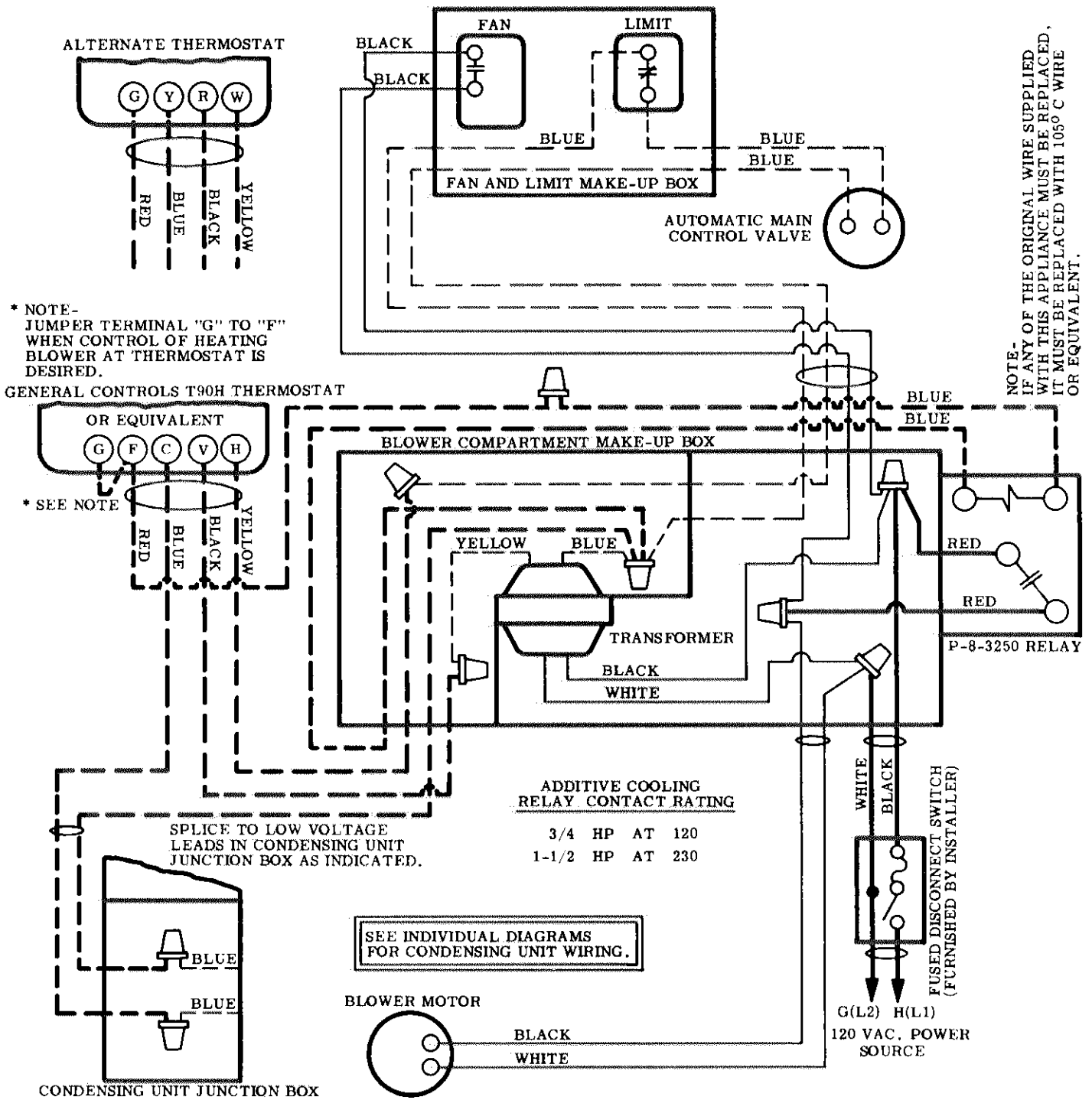


G8DI-55, G82DI-55 WITH ADDITIVE COOLING 520,120 W



**G81-65 & G81-82
WITH ADDITIVE COOLING
CONDENSING UNIT WITHOUT TRANSFORMER**

- LINE VOLTAGE INSTALLED AT FACTORY
- - - LOW VOLTAGE INSTALLED AT FACTORY
- LINE VOLTAGE TO BE INSTALLED
- - - LOW VOLTAGE TO BE INSTALLED - NEC CLASS 2 WIRING

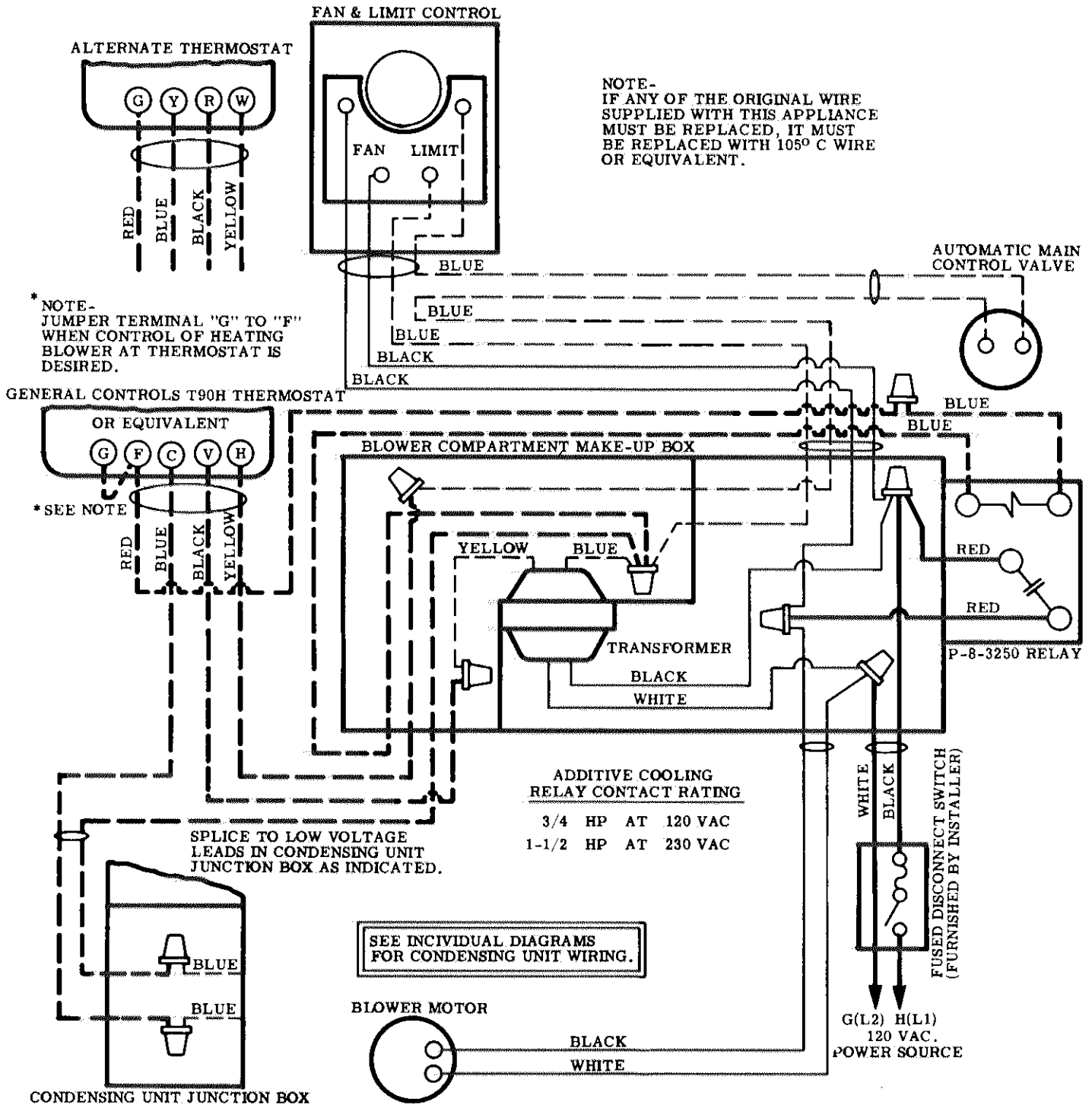


G81-85 & G81-110

WITH ADDITIVE COOLING

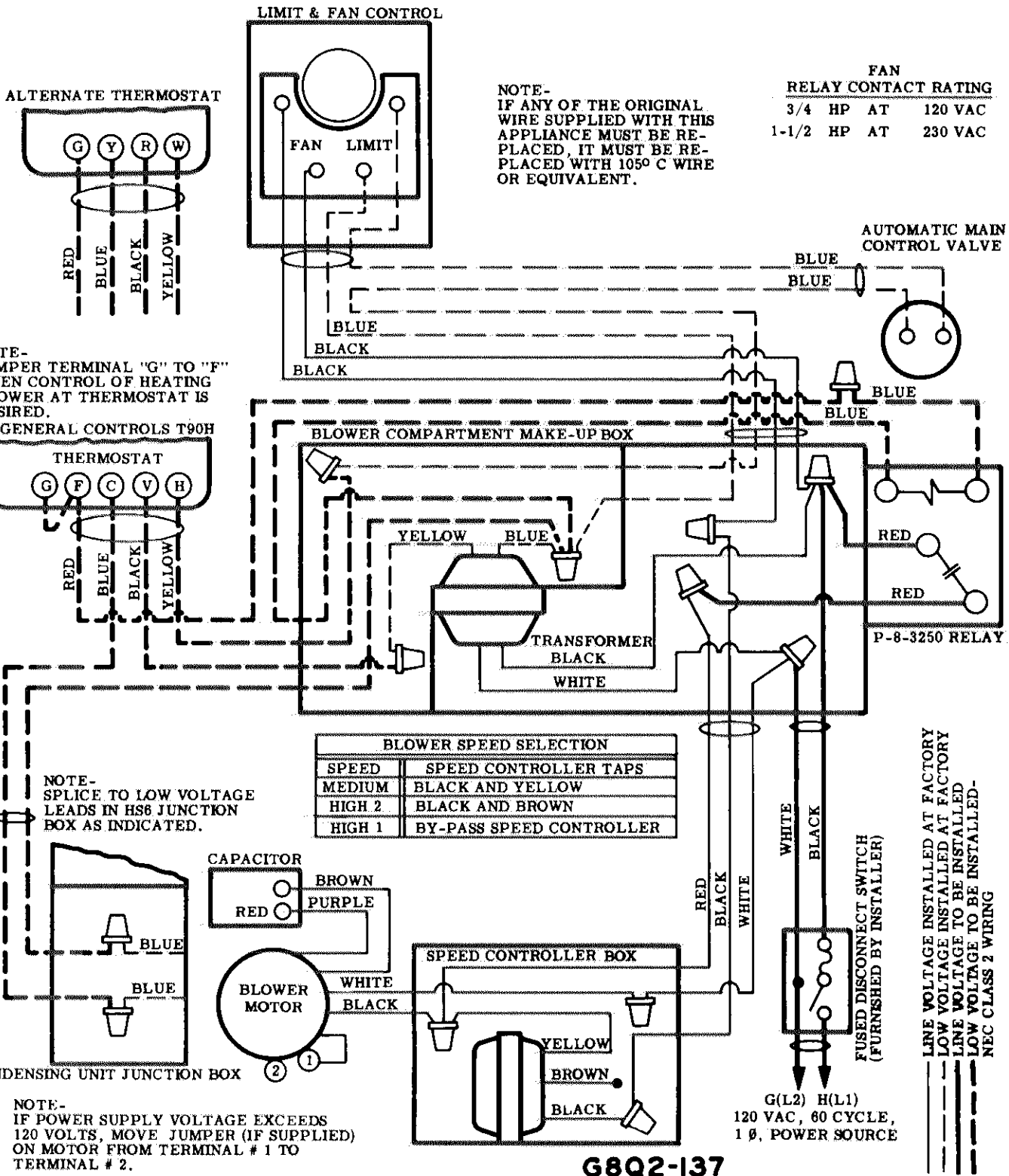
CONDENSING UNIT WITHOUT TRANSFORMER

- LINE VOLTAGE INSTALLED AT FACTORY
- LOW VOLTAGE INSTALLED AT FACTORY
- LINE VOLTAGE TO BE INSTALLED
- - - LOW VOLTAGE TO BE INSTALLED - NEC CLASS 2 WIRING



G8-137 & G8I-165
WITH ADDITIVE COOLING
CONDENSING UNIT WITHOUT TRANSFORMER
520.278 W

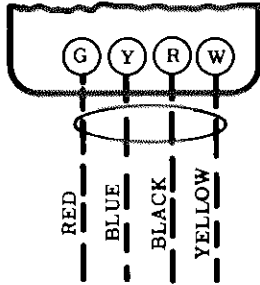
——— LINE VOLTAGE INSTALLED AT FACTORY
 - - - - - LOW VOLTAGE INSTALLED AT FACTORY
 = = = = = LINE VOLTAGE TO BE INSTALLED
 - - - - - LOW VOLTAGE TO BE INSTALLED-
 NEC CLASS 2 WIRING



SEE INDIVIDUAL DIAGRAMS FOR CONDENSING UNIT WIRING

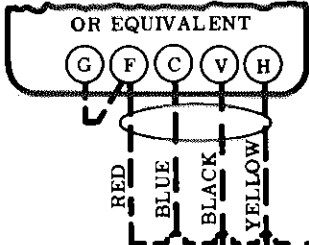
**G8Q2-137
WITH ADDITIVE COOLING
520.118 W**

ALTERNATE THERMOSTAT

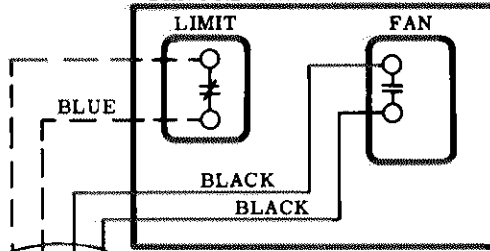


NOTE-
JUMPER TERMINAL "G" TO "F"
WHEN CONTROL OF HEATING
BLOWER AT THERMOSTAT IS
DESIRED.

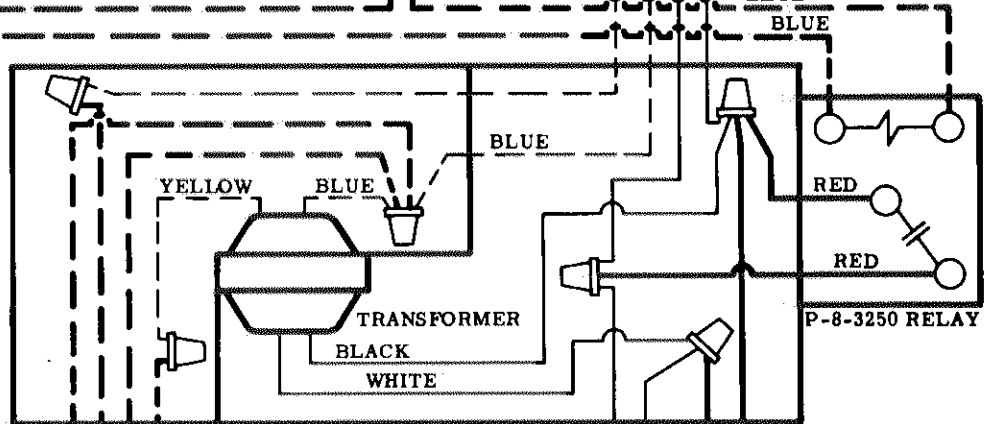
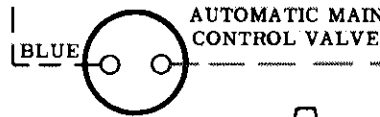
GENERAL CONTROLS T90H THERMOSTAT



FAN AND LIMIT MAKE-UP BOX



NOTE-
IF ANY OF THE ORIGINAL WIRE SUPPLIED
WITH THIS APPLIANCE MUST BE REPLACED,
IT MUST BE REPLACED WITH 105° C WIRE
OR EQUIVALENT.

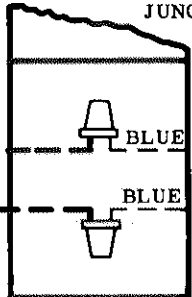


BLOWER COMPARTMENT MAKE-UP BOX

FAN RELAY CONTACT RATING

3/4 HP	AT	120
1-1/2 HP	AT	230

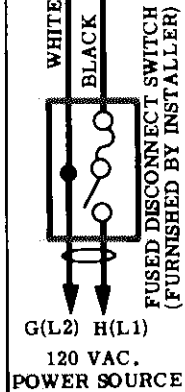
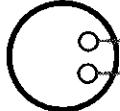
SPLICE TO LOW VOLTAGE
LEADS IN CONDENSING UNIT
JUNCTION BOX AS INDICATED.



CONDENSING UNIT JUNCTION BOX

SEE INDIVIDUAL DIAGRAMS
FOR CONDENSING UNIT WIRING.

BLOWER MOTOR



- LINE VOLTAGE INSTALLED AT FACTORY
- - - - LOW VOLTAGE INSTALLED AT FACTORY
- LINE VOLTAGE TO BE INSTALLED
- - - - LOW VOLTAGE TO BE INSTALLED
- NEC CLASS 2 WIRING

G8-165
WITH ADDITIVE COOLING
520.156 W