

**MODINE****6-430.3**

October, 1985

WIRING DIAGRAMS

**for models PA, BA, gas-fired unit heaters
manufactured after January 1, 1977 and before September 1984**

For units manufactured after August 1984 see Bulletin #6-441

DIAGRAM SELECTION

Diagrams are provided for both single- and three-phase circuits, and are readily identified in the Selection Table on the following page. The Selection Table enables easy selection of the correct wiring diagram after the electrical components of the unit heater have been determined. The control codes are listed to aid in locating the correct diagram.

DIAGRAM INTERCHANGEABILITY

The following Model PA and BA gas-fired unit heater wiring diagrams are for either 115-volt, 60 Hertz, single-phase power, or for 460-volt, 60 Hertz, three-phase electrical service.

The 115V / 60 Hz / 1 ϕ diagrams may also be utilized for 230V / 60 Hz / 1 ϕ by substituting 230-volt components for the 115-volt shown.

The 460V / 60 Hz / 3 ϕ diagrams may be converted to 208V / 60V / 3 ϕ by substituting a 208V / 115V transformer for 460V / 115V model shown.

The 460V / 60 Hz 3 ϕ diagrams may be modified to 230 / 60V / 3 ϕ by reconnecting the primary of the 460V / 115V transformer as shown or by substituting 230-volt components for the 115-volt shown and supplying 230V / 60 Hz / 1 ϕ power to the control system and accessories.

NOTE: As indicated in every diagram, all wiring must comply with the National Electrical Code and all local codes. All components must agree with their respective power source.

POWER REQUIREMENTS — PROPELLER AND BLOWER MOTORS

Motor Ratings	Full Load Amperes				
	115V/60/1	230V/60/1	208/60/3	230/60/3	460/60/3
6W	0.6	0.3	—	—	—
16W	1.1	0.6	—	—	—
1/15HP	2.7	—	—	—	—
1/6HP	2.8	1.1	—	—	—
1/4HP	4.4	2.2	1.6	1.4	0.7
1/3HP	5.6	2.8	2.5	2.2	1.1
1/2HP	7.8	4.4	2.6	2.6	1.3
3/4HP	10.2	6.0	3.4	3.1	1.6
1HP	13.2	6.6	3.9	3.4	1.7
1-1/2HP	15.6	7.8	5.6	4.8	2.4
2HP	—	—	6.8	6.2	3.1
3HP	—	—	10.8	9.4	4.7

ABBREVIATIONS AND SYMBOLS

To facilitate interpretation and enable simplification the abbreviations and symbols have been selected as recommended by ANSI (American National Standards Institute) and NEMA (National Electrical Manufacturers Association) standards.

XFMR or TR	Transformer
V	Volts
Hz	Cycle or Hertz
ϕ	Phase
LC	Limit Control
THERM or TH	Thermostat
MV	Main Valve
PV	Pilot Valve
SO	Shut Off
RC	Relay Contact or Coil
G	Ground
H	Hot
SW	Switch
EPS	Electric Pilot Switch
HI	High
Lo	Low
Co	Common

"J" Box	Junction Box
H ₁ H ₂ , etc.	Transformer Primary Terminals
SUM	Summer Contact (Summer-Winter Switch)
WIN	Winter Contact (Summer-Winter Switch)
S-W	Summer-Winter Switch
O.L.C.	Overload Contact
C.S.	Power Venter Centrifugal Switch
FT _c	Fan Timer Contact
SPDT	Single-Pole Double-Throw Switch
VA	Volt Ampere
W	Watts

WIRE COLOR CODING

BK	Black
BU	Blue
R	Red
W	White
Y	Yellow
X1, X2, etc.	Transformer Secondary Terminals
L1, L2, etc.	Electric Load Terminals
T1, T2, etc.	Starter or Motor Terminals

6-441 WIRING DIAGRAM MODELS PA/BA

WIRING DIAGRAM SELECTION

A) Field and Submittal Wiring Diagram Selection

Wiring in the field changes little when the brand of the controls furnished on the unit heater changes. Select correct wiring diagrams as follows:

- 1) Determine unit heater model and size.
- 2) Select control code number from Table 1.
- 3) Reference unit heater model in the Page Location Index with control code number and determine correct page number for single-phase or three-phase control. Single-phase wiring diagram page numbers are in the unshaded areas and three-phase diagrams are in the shaded areas.
- 4) Wiring diagrams for unit heaters with accessories will have the same page number as the wiring diagram for the appropriate unit heater control code, but are suffixed according to Table 2.

B) Service and Trouble Shooting

Because internal or factory wiring may vary depending on controls manufacturer, the wiring diagrams must be selected with the series identity number when servicing or trouble shooting unit heater control system. Wiring diagrams in this bulletin are for unit heaters manufactured after January 1, 1977 and before September 1984 and the series identity number is the 5th thru the 7th digits of the unit heater serial number.

EXAMPLE: Serial No. — 02021080477 has a series identity number of 108.

To select the correct wiring diagram:

- 1) Determine unit heater model and size from serial plate located on the rear of the unit.
- 2) Determine the control code numbers from box marked *Control Code*, also on the serial plate.
- 3) Determine the *series identity number* from unit serial number.

- 4) Select the Page Location Index which corresponds to the *series identity number* of the unit heater, then proceed with Steps 3 and 4 of Field and Submittal Wiring Diagram Selection.

EXAMPLE SELECTION

Select correct single-phase wiring diagram for a BA-170A, Control Code 28, series identity number 108.

Locate the Page Location Index which shows the page numbers for units with series identity number 108. Select the page number where the column for the BA-170 intersects with the line for control code 28. The correct single phase wiring diagram for this unit, without accessories, is found on page 15 in the unshaded area. If this unit also had a power venter the correct wiring diagram would be found on page 15b as determined from the page suffixes shown in Table 2.

TWO-IN-ONE DIAGRAMS

Two wiring diagrams are furnished for each circuit configuration in this manual. Included are a connection diagram at the left for field installation and a circuit schematic at the right to aid in continuity and trouble shooting.

The heavier lines in the connection diagram indicate line voltage; the lighter lines are for low voltage. Solid lines show pre-wiring performed at the factory; dotted lines inform the installer of connections required to put the heater in operation.

TABLE 1 — CONTROL CODE DESCRIPTIONS

08, 09	Intermittent Pilot Ignition, Non-Lockout, fan-time delay, low voltage thermostat, Natural Gas.
11, 12	Standing Pilot, 100% Shut-Off, fan-time delay, low voltage thermostat, Natural Gas.
25, 26	Two Stage, Standing Pilot, 100% Shut-Off, Natural Gas.
28, 29	Intermittent Pilot Ignition, with Lockout, fan-time delay, low voltage thermostat, Natural Gas.
51, 52	Mechanical Modulation, Intermittent Pilot Ignition, Non-Lockout Natural Gas. (BA Models only)
55, 56	Two-Stage, Intermittent Pilot Ignition, Non-Lockout, Natural Gas.
61, 62	Mechanical Modulation, Intermittent Pilot Ignition, with Lockout, Natural Gas. (BA Models only)
65, 66	Two-Stage, Intermittent Pilot Ignition, with Lockout, Natural Gas.
76, 77	Mechanical Modulation, Intermittent Pilot Ignition, with Lockout, Propane Gas. (BA Models only)
78, 79	Intermittent Pilot Ignition, with Lockout, fan-time delay, low voltage thermostat, Propane Gas.
81, 82	Standing Pilot, 100% Shut-Off, fan-time delay, low-voltage thermostat, Propane Gas.
83, 84	Two-Stage, Standing Pilot, 100% Shut-Off, Propane Gas.
95, 96	Two-Stage, Intermittent Pilot Ignition, with Lockout, Propane Gas.

TABLE 2 — ACCESSORY SUFFIXES

Page Suffix	Accessory
a	Summer/Winter Switch
b	Power Venter
c	Summer/Winter Switch and Power Venter

PAGE LOCATION INDEX: Series Identity Number 101

Control Code	PA 30	PA/BA 50	PA/BA 75	PA/BA 105	PA/BA 130	PA/BA 150	PA/BA 170/175	PA/BA 200	PA/BA 225	PA/BA 250	PA/BA 300	PA/BA 350	PA/BA 400
01	25 26	25 26	25 26	25 26	25 26	25 26	25 26	25 26	25 26	25 26	25 26	25 26	25 26
02	3 4	3 4	3 4	3 4	3 4	3 4	3 4	3 4	3 4	3 4	3 4	3 4	3 4
08, 09	5 6	5 6	5 6	5 6	5 6	5 6	5 6	7 8	7 8	7 8	7 8	7 8	7 8
11, 12	9 10	9 10	9 10	9 10	9 10	9 10	9 10	9 10	9 10	9 10	9 10	9 10	9 10
25, 26	43 44	43 44	43 44	43 44	43 44	43 44	43 44	43 44	43 44	43 44	43 44	45 46	45 46
28, 29	11 12	11 12	11 12	11 12	11 12	11 12	13 14	13 14	13 14	13 14	13 14	13 14	13 14
51, 52	— —	49 50	49 50	49 50	49 50	49 50	49 50	49 50	49 50	49 50	49 50	49 50	49 50
55, 56	47 48	47 48	47 48	47 48	47 48	47 48	47 48	47 48	47 48	47 48	47 48	47 48	47 48
61, 62	— —	49 50	49 50	49 50	49 50	49 50	49 50	49 50	49 50	49 50	49 50	49 50	49 50
65, 66	47 48	47 48	47 48	47 48	47 48	47 48	47 48	47 48	47 48	47 48	47 48	47 48	47 48
71	25 26	25 26	25 26	25 26	25 26	25 26	25 26	25 26	25 26	25 26	25 26	25 26	25 26
72	3 4	3 4	3 4	3 4	3 4	3 4	3 4	3 4	3 4	3 4	3 4	3 4	3 4
76, 77	— —	49 50	49 50	49 50	49 50	49 50	49 50	49 50	49 50	49 50	49 50	49 50	49 50
78, 79	11 12	11 12	11 12	11 12	11 12	11 12	11 12	11 12	15 16	15 16	15 16	15 16	15 16
81, 82	9 10	9 10	9 10	9 10	9 10	9 10	9 10	9 10	9 10	9 10	9 10	9 10	9 10
83, 84	43 44	43 44	43 44	43 44	43 44	43 44	43 44	43 44	43 44	43 44	43 44	45 46	45 46
95, 96	47 48	47 48	47 48	47 48	47 48	47 48	47 48	47 48	47 48	47 48	47 48	47 48	47 48

PAGE LOCATION INDEX: Series Identity Number 102

Control Code	PA 30	PA/BA 50	PA/BA 75	PA/BA 105	PA/BA 130	PA/BA 150	PA/BA 170/175	PA/BA 200	PA/BA 225	PA/BA 250	PA/BA 300	PA/BA 350	PA/BA 400
01	25 26	25 26	25 26	25 26	25 26	25 26	25 26	25 26	25 26	25 26	25 26	25 26	25 26
02	3 4	3 4	3 4	3 4	3 4	3 4	3 4	3 4	3 4	3 4	3 4	3 4	3 4
08, 09	17 18	17 18	17 18	17 18	17 18	17 18	17 18	17 18	17 18	17 18	— —	— —	— —
11, 12	9 10	9 10	9 10	9 10	9 10	9 10	9 10	9 10	9 10	9 10	9 10	9 10	9 10
25, 26	— —	— —	— —	— —	— —	— —	— —	— —	— —	— —	— —	45 46	45 46
28, 29	19 20	19 20	19 20	19 20	19 20	19 20	19 20	19 20	19 20	19 20	— —	— —	— —
51, 52	— —	49 50	49 50	49 50	49 50	49 50	49 50	49 50	49 50	49 50	49 50	49 50	— —
55, 56	63 64	63 64	63 64	63 64	63 64	63 64	63 64	63 64	63 64	63 64	63 64	63 64	63 64
61, 62	— —	49 50	49 50	49 50	49 50	49 50	49 50	49 50	49 50	49 50	49 50	49 50	— —
65, 66	63 64	63 64	63 64	63 64	63 64	63 64	63 64	63 64	63 64	63 64	63 64	63 64	63 64
71	25 26	25 26	25 26	25 26	25 26	25 26	25 26	25 26	25 26	25 26	25 26	25 26	25 26
72	3 4	3 4	3 4	3 4	3 4	3 4	3 4	3 4	3 4	3 4	3 4	3 4	3 4
76, 77	— —	49 50	49 50	49 50	49 50	49 50	49 50	49 50	49 50	49 50	49 50	49 50	— —
78, 79	21 22	21 22	21 22	21 22	21 22	21 22	21 22	21 22	19 20	19 20	19 20	19 20	19 20
81, 82	9 10	9 10	9 10	9 10	9 10	9 10	9 10	9 10	9 10	9 10	9 10	9 10	9 10
83, 84	— —	— —	— —	— —	— —	— —	— —	— —	— —	— —	— —	45 46	45 46
95, 96	63 64	63 64	63 64	63 64	63 64	63 64	63 64	63 64	63 64	63 64	63 64	63 64	63 64

PAGE LOCATION INDEX: Series Identity Number 103

Control Code	PA 30	PA/BA 50	PA/BA 75	PA/BA 105	PA/BA 130	PA/BA 150	PA/BA 170/175	PA/BA 200	PA/BA 225	PA/BA 250	PA/BA 300	PA/BA 350	PA/BA 400
01	—	—	—	—	—	—	—	25 26	25 26	25 26	25 26	25 26	25 26
02	—	—	—	—	—	—	—	—	—	—	—	—	—
08, 09	5 6	5 6	5 6	5 6	5 6	5 6	7 8	7 8	7 8	7 8	7 8	7 8	7 8
11, 12	27 28	27 28	27 28	27 28	27 28	27 28	27 28	27 28	27 28	27 28	27 28	27 28	27 28
25, 26	—	—	—	—	—	—	—	—	—	—	—	—	—
28, 29	21 22	21 22	21 22	21 22	21 22	21 22	23 24	23 24	23 24	23 24	23 24	23 24	23 24
51, 52	—	—	—	—	—	—	—	—	—	—	—	—	—
55, 56	—	—	—	—	—	—	—	—	—	—	—	—	—
61, 62	—	—	—	—	—	—	—	—	—	—	—	—	—
65, 66	—	—	—	—	—	—	—	—	—	—	—	—	—
71	—	—	—	—	—	—	—	25 26	25 26	25 26	25 26	25 26	25 26
72	—	—	—	—	—	—	—	—	—	—	—	—	—
76, 77	—	—	—	—	—	—	—	—	—	—	—	—	—
78, 79	19 20	19 20	19 20	19 20	19 20	19 20	19 20	19 20	19 20	19 20	19 20	19 20	19 20
81, 82	27 28	27 28	27 28	27 28	27 28	27 28	27 28	27 28	27 28	27 28	27 28	27 28	27 28
83, 84	—	—	—	—	—	—	—	—	—	—	—	—	—
95, 96	—	—	—	—	—	—	—	—	—	—	—	—	—

PAGE LOCATION INDEX: Series Identity Number 104

Control Code	PA 30	PA/BA 50	PA/BA 75	PA/BA 105	PA/BA 130	PA/BA 150	PA/BA 170/175	PA/BA 200	PA/BA 225	PA/BA 250	PA/BA 300	PA/BA 350	PA/BA 400
01	—	—	—	—	—	—	—	25 26	25 26	25 26	25 26	25 26	25 26
02	—	—	—	—	—	—	—	—	—	—	—	—	—
08, 09	29 30	29 30	29 30	29 30	29 30	29 30	29 30	29 30	29 30	29 30	29 30	29 30	29 30
11, 12	27 28	27 28	27 28	27 28	27 28	27 28	27 28	27 28	27 28	27 28	27 28	27 28	27 28
25, 26	—	—	—	—	—	—	—	—	—	—	—	—	—
28, 29	31 32	31 32	31 32	31 32	31 32	31 32	31 32	31 32	31 32	31 32	31 32	31 32	31 32
51, 52	—	—	—	—	—	—	—	—	—	—	—	—	—
55, 56	—	—	—	—	—	—	—	—	—	—	—	—	—
61, 62	—	—	—	—	—	—	—	—	—	—	—	—	—
65, 66	—	—	—	—	—	—	—	—	—	—	—	—	—
71	—	—	—	—	—	—	—	—	—	25 26	25 26	25 26	25 26
72	—	—	—	—	—	—	—	—	—	—	—	—	—
76, 77	—	—	—	—	—	—	—	—	—	—	—	—	—
78, 79	33 34	33 34	33 34	33 34	33 34	33 34	33 34	33 34	35 36	35 36	35 36	35 36	35 36
81, 82	27 28	27 28	27 28	27 28	27 28	27 28	27 28	27 28	27 28	27 28	27 28	27 28	27 28
83, 84	—	—	—	—	—	—	—	—	—	—	—	—	—
95, 96	—	—	—	—	—	—	—	—	—	—	—	—	—

PAGE LOCATION INDEX: Series Identity Number 105

Control Code	PA 30	PA/BA 50	PA/BA 75	PA/BA 105	PA/BA 130	PA/BA 150	PA/BA 170/175	PA/BA 200	PA/BA 225	PA/BA 250	PA/BA 300	PA/BA 350	PA/BA 400
01	25 26	25 26	25 26	25 26	25 26	25 26	25 26	25 26	25 26	25 26	25 26	51 52	51 52
02	—	—	—	—	—	—	—	—	—	—	—	—	—
08, 09	37 38	37 38	37 38	37 38	37 38	37 38	37 38	37 38	37 38	37 38	—	—	—
11, 12	57 58	57 58	57 58	57 58	57 58	57 58	57 58	57 58	57 58	57 58	57 58	59 60	59 60
25, 26	—	—	—	—	—	—	—	—	—	—	—	—	—
28, 29	35 36	35 36	35 36	35 36	35 36	35 36	35 36	35 36	35 36	35 36	—	—	—
51, 52	—	—	—	—	—	—	—	—	—	—	—	—	—
55, 56	—	—	—	—	—	—	—	—	—	—	—	—	—
61, 62	—	—	—	—	—	—	—	—	—	—	—	—	—
65, 66	—	—	—	—	—	—	—	—	—	—	—	—	—
71	25 26	25 26	25 26	25 26	25 26	25 26	25 26	25 26	25 26	25 26	25 26	51 52	51 52
72	—	—	—	—	—	—	—	—	—	—	—	—	—
76, 77	—	—	—	—	—	—	—	—	—	—	—	—	—
78, 79	35 36	35 36	35 36	35 36	35 36	35 36	35 36	35 36	35 36	35 36	35 36	35 36	35 36
81, 82	57 58	57 58	57 58	57 58	57 58	57 58	57 58	57 58	57 58	57 58	57 58	59 60	59 60
83, 84	—	—	—	—	—	—	—	—	—	—	—	—	—
95, 96	—	—	—	—	—	—	—	—	—	—	—	—	—

PAGE LOCATION INDEX: Series Identity Number 106

Control Code	PA 30	PA/BA 50	PA/BA 75	PA/BA 105	PA/BA 130	PA/BA 150	PA/BA 170/175	PA/BA 200	PA/BA 225	PA/BA 250	PA/BA 300	PA/BA 350	PA/BA 400
01	—	—	—	—	—	—	—	—	—	—	—	—	—
02	—	—	—	—	—	—	—	—	—	—	—	—	—
08, 09	39 40	39 40	39 40	39 40	39 40	39 40	39 40	39 40	—	—	—	—	—
11, 12	57 58	57 58	57 58	57 58	57 58	57 58	57 58	57 58	57 58	57 58	57 58	61 62	61 62
25, 26	—	—	—	—	—	—	—	—	—	—	—	—	—
28, 29	33 34	33 34	33 34	33 34	33 34	33 34	33 34	33 34	—	—	—	—	—
51, 52	—	—	—	—	—	—	—	—	—	—	—	—	—
55, 56	—	—	—	—	—	—	—	—	—	—	—	—	—
61, 62	—	—	—	—	—	—	—	—	—	—	—	—	—
65, 66	—	—	—	—	—	—	—	—	—	—	—	—	—
71	—	—	—	—	—	—	—	—	—	—	—	—	—
72	—	—	—	—	—	—	—	—	—	—	—	—	—
76, 77	—	—	—	—	—	—	—	—	—	—	—	—	—
78, 79	41 42	41 42	41 42	41 42	41 42	41 42	41 42	41 42	41 42	41 42	41 42	41 42	41 42
81, 82	57 58	57 58	57 58	57 58	57 58	57 58	57 58	57 58	57 58	57 58	57 58	61 62	61 62
83, 84	—	—	—	—	—	—	—	—	—	—	—	—	—
95, 96	—	—	—	—	—	—	—	—	—	—	—	—	—

PAGE LOCATION INDEX: Series Identity Number 107

Control Code	PA 30	PA/BA 50	PA/BA 75	PA/BA 105	PA/BA 130	PA/BA 150	PA/BA 170/175	PA/BA 200	PA/BA 225	PA/BA 250	PA/BA 300	PA/BA 350	PA/BA 400
01	—	—	—	—	—	—	—	—	—	—	—	—	—
02	—	—	—	—	—	—	—	—	—	—	—	—	—
08, 09	41 42	41 42	41 42	41 42	41 42	41 42	41 42	41 42	41 42	41 42	41 42	41 42	41 42
11, 12	—	—	—	—	—	—	—	—	—	—	—	—	—
25, 26	—	—	—	—	—	—	—	—	—	—	—	—	—
28, 29	41 42	41 42	41 42	41 42	41 42	41 42	41 42	41 42	41 42	41 42	41 42	41 42	41 42
51, 52	—	—	—	—	—	—	—	—	—	—	—	—	—
55, 56	—	—	—	—	—	—	—	—	—	—	—	—	—
61, 62	—	—	—	—	—	—	—	—	—	—	—	—	—
65, 66	—	—	—	—	—	—	—	—	—	—	—	—	—
71	—	—	—	—	—	—	—	—	—	—	—	—	—
72	—	—	—	—	—	—	—	—	—	—	—	—	—
76, 77	—	—	—	—	—	—	—	—	—	—	—	—	—
78, 79	53 54	53 54	53 54	53 54	53 54	53 54	53 54	53 54	53 54	53 54	53 54	53 54	53 54
81, 82	—	—	—	—	—	—	—	—	—	—	—	—	—
83, 84	—	—	—	—	—	—	—	—	—	—	—	—	—
95, 96	—	—	—	—	—	—	—	—	—	—	—	—	—

PAGE LOCATION INDEX: Series Identity Number 108

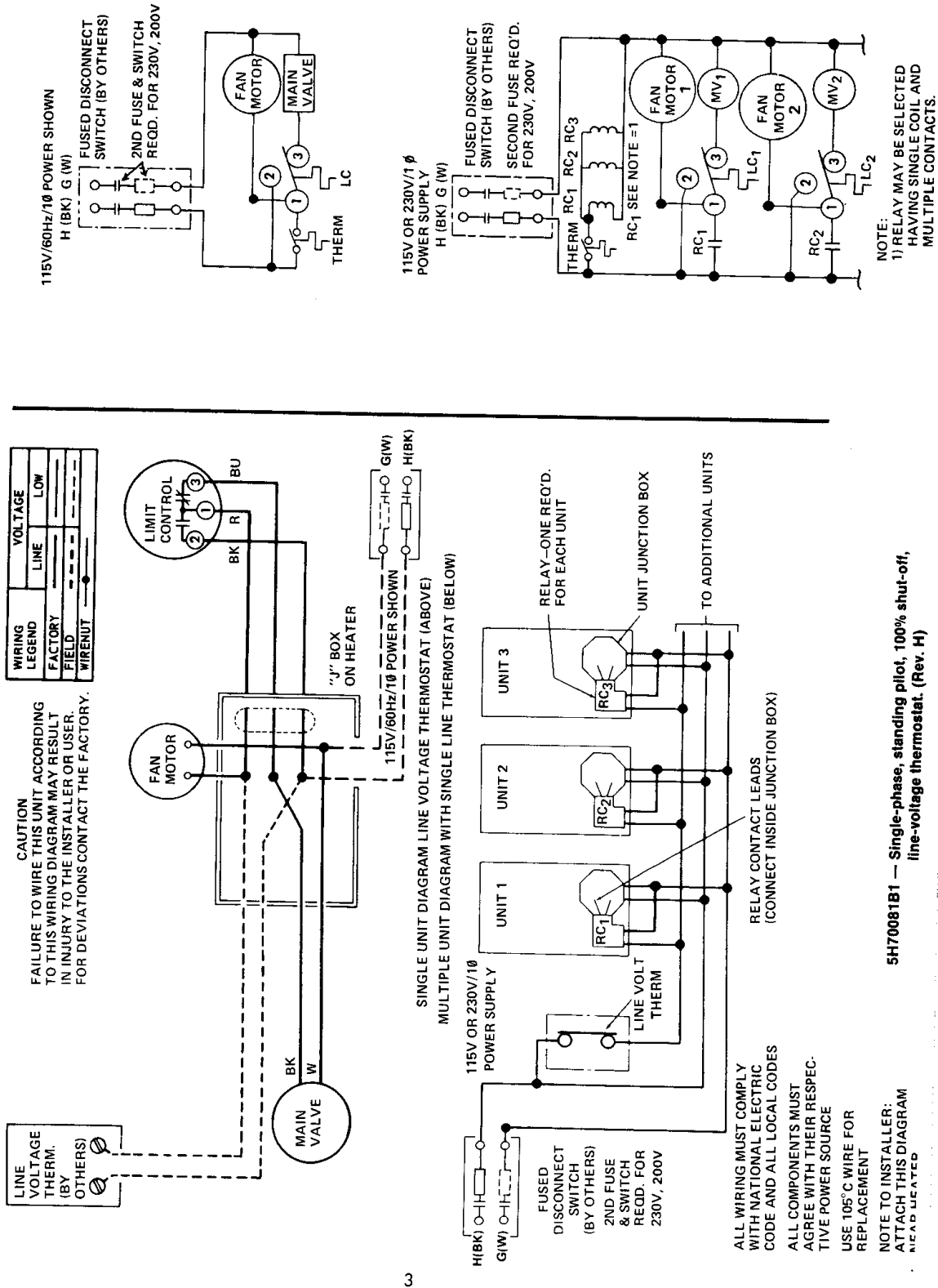
Control Code	PA 30	PA/BA 50	PA/BA 75	PA/BA 105	PA/BA 130	PA/BA 150	PA/BA 170/175	PA/BA 200	PA/BA 225	PA/BA 250	PA/BA 300	PA/BA 350	PA/BA 400
01	—	—	—	—	—	—	—	—	—	—	—	—	—
02	—	—	—	—	—	—	—	—	—	—	—	—	—
08, 09	53 54	53 54	53 54	53 54	53 54	53 54	53 54	53 54	53 54	53 54	53 54	53 54	53 54
11, 12	—	—	—	—	—	—	—	—	—	—	—	—	—
25, 26	—	—	—	—	—	—	—	—	—	—	—	—	—
28, 29	53 54	53 54	53 54	53 54	53 54	53 54	53 54	53 54	53 54	53 54	53 54	53 54	53 54
51, 52	—	—	—	—	—	—	—	—	—	—	—	—	—
55, 56	—	—	—	—	—	—	—	—	—	—	—	—	—
61, 62	—	—	—	—	—	—	—	—	—	—	—	—	—
65, 66	—	—	—	—	—	—	—	—	—	—	—	—	—
71	—	—	—	—	—	—	—	—	—	—	—	—	—
72	—	—	—	—	—	—	—	—	—	—	—	—	—
76, 77	—	—	—	—	—	—	—	—	—	—	—	—	—
78, 79	55 56	55 56	55 56	55 56	55 56	55 56	55 56	55 56	55 56	55 56	55 56	55 56	55 56
81, 82	—	—	—	—	—	—	—	—	—	—	—	—	—
83, 84	—	—	—	—	—	—	—	—	—	—	—	—	—
95, 96	—	—	—	—	—	—	—	—	—	—	—	—	—

PAGE LOCATION INDEX: Series Identity Number 109

Control Code	PA 30	PA/BA 50	PA/BA 75	PA/BA 105	PA/BA 130	PA/BA 150	PA/BA 170/175	PA/BA 200	PA/BA 225	PA/BA 250	PA/BA 300	PA/BA 350	PA/BA 400
01	—	—	—	—	—	—	—	—	—	—	—	—	—
02	—	—	—	—	—	—	—	—	—	—	—	—	—
08, 09	55 56	55 56	55 56	55 56	55 56	55 56	55 56	55 56	55 56	55 56	55 56	55 56	55 56
11, 12	—	—	—	—	—	—	—	—	—	—	—	—	—
25, 26	—	—	—	—	—	—	—	—	—	—	—	—	—
28, 29	55 56	55 56	55 56	55 56	55 56	55 56	55 56	55 56	55 56	55 56	55 56	55 56	55 56
51, 52	—	—	—	—	—	—	—	—	—	—	—	—	—
55, 56	—	—	—	—	—	—	—	—	—	—	—	—	—
61, 62	—	—	—	—	—	—	—	—	—	—	—	—	—
65, 66	—	—	—	—	—	—	—	—	—	—	—	—	—
71	—	—	—	—	—	—	—	—	—	—	—	—	—
72	—	—	—	—	—	—	—	—	—	—	—	—	—
76, 77	—	—	—	—	—	—	—	—	—	—	—	—	—
78, 79	—	—	—	—	—	—	—	—	—	—	—	—	—
81, 82	—	—	—	—	—	—	—	—	—	—	—	—	—
83, 84	—	—	—	—	—	—	—	—	—	—	—	—	—
95, 96	—	—	—	—	—	—	—	—	—	—	—	—	—

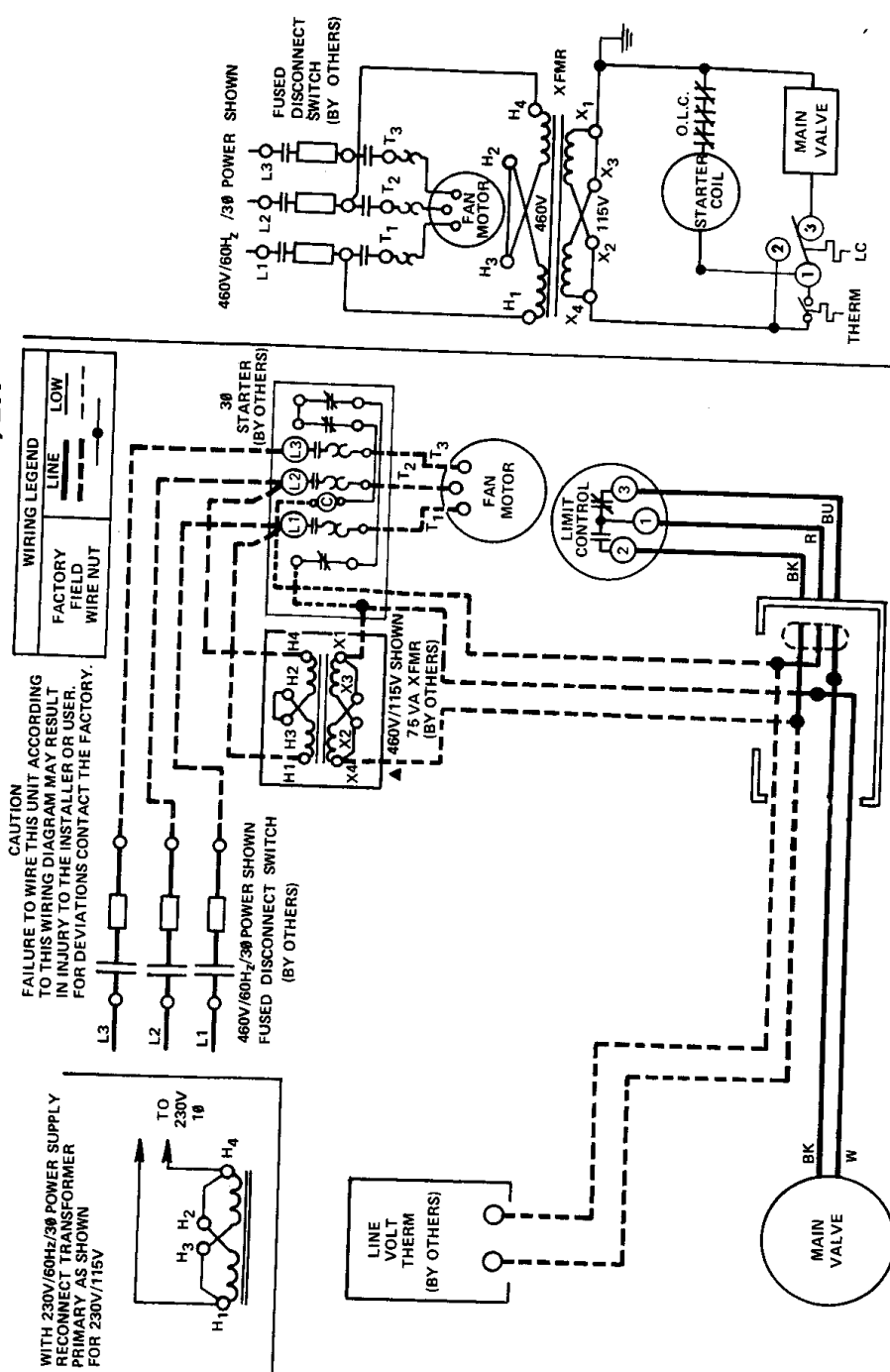


MODINE 6-430 WIRING DIAGRAM MODELS PA, BA





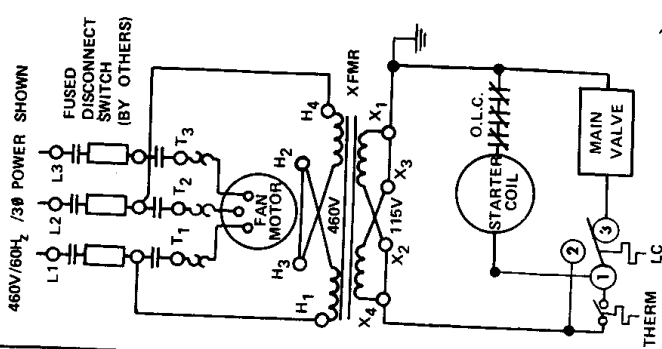
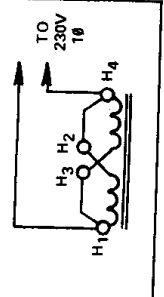
MODINE 6-430 WIRING DIAGRAM MODELS PA, BA



CAUTION
FAILURE TO WIRE THIS UNIT ACCORDING
TO THIS WIRING DIAGRAM MAY RESULT
IN INJURY TO THE INSTALLER OR USER.
FOR DEVIATIONS CONTACT THE FACTORY.

WIRING LEGEND	
FACTORY	LINE
FIELD	LOW
WIRE NUT	---

WITH 230V/60Hz/3Ø POWER SUPPLY
RECONNECT TRANSFORMER
PRIMARY AS SHOWN
FOR 230V/115V



ALL WIRING MUST COMPLY
WITH NATIONAL ELECTRIC
CODE AND ALL LOCAL CODES
ALL COMPONENTS MUST
AGREE WITH THEIR RESPEC-
TIVE POWER SOURCE.

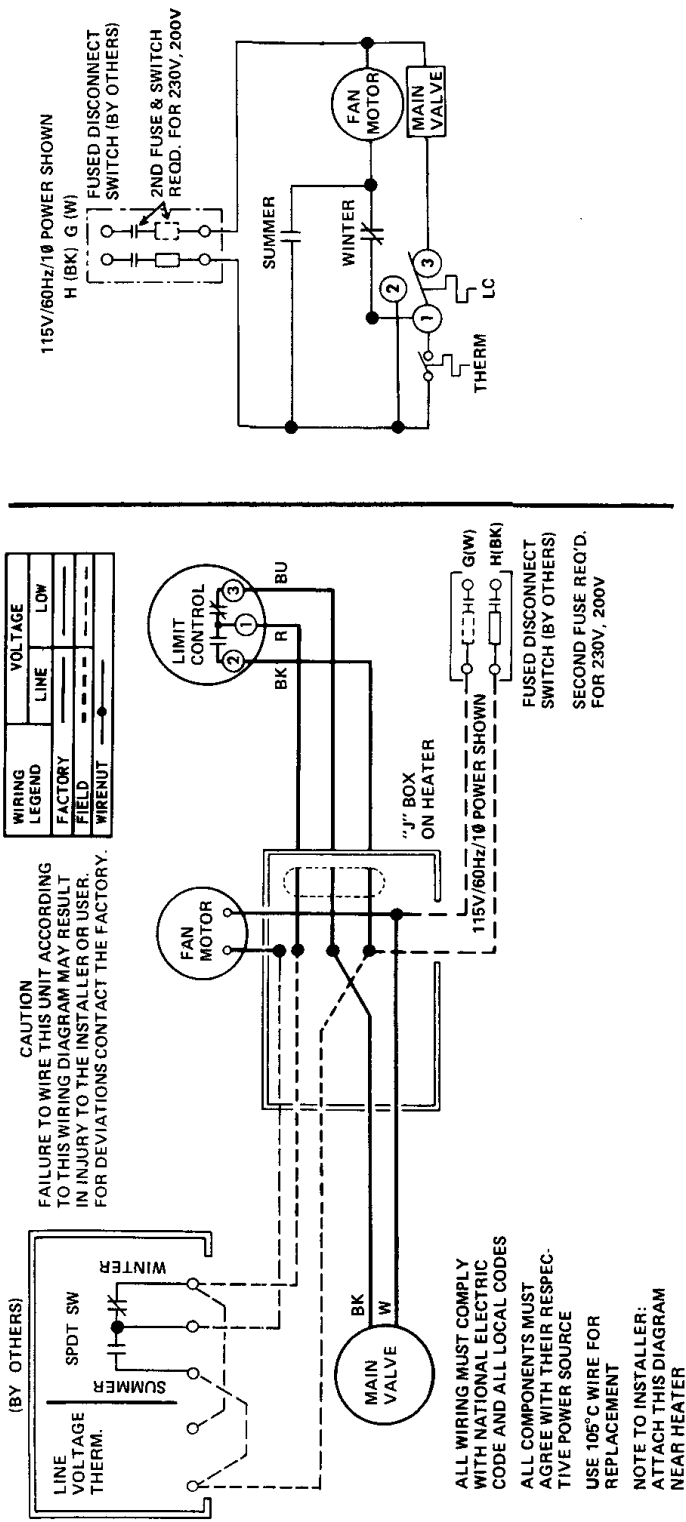
USE 105°C WIRE FOR
REPLACEMENT
NOTE TO INSTALLER:
ATTACH THIS DIAGRAM
NEAR HEATER.

▲ TRANSFORMER NOT REQUIRED WITH
230V/3Ø POWER SUPPLY AND
230V/25V CONTROL TRANSFORMER

5H70081B1 — Three-phase, standing pilot, 100% shut-off, line
voltage thermostat (Rev. H)



MODINE 6-430 WIRING DIAGRAM MODELS PA, BA



3A

8H6490B1 — Single-phase, standing pilot, 100% shut-off, line-voltage thermostat, summer-winter switch.

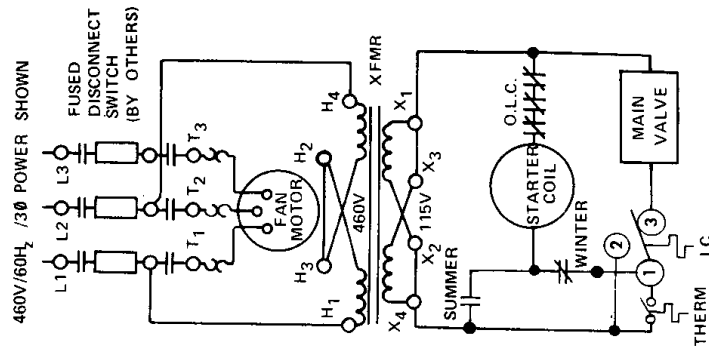
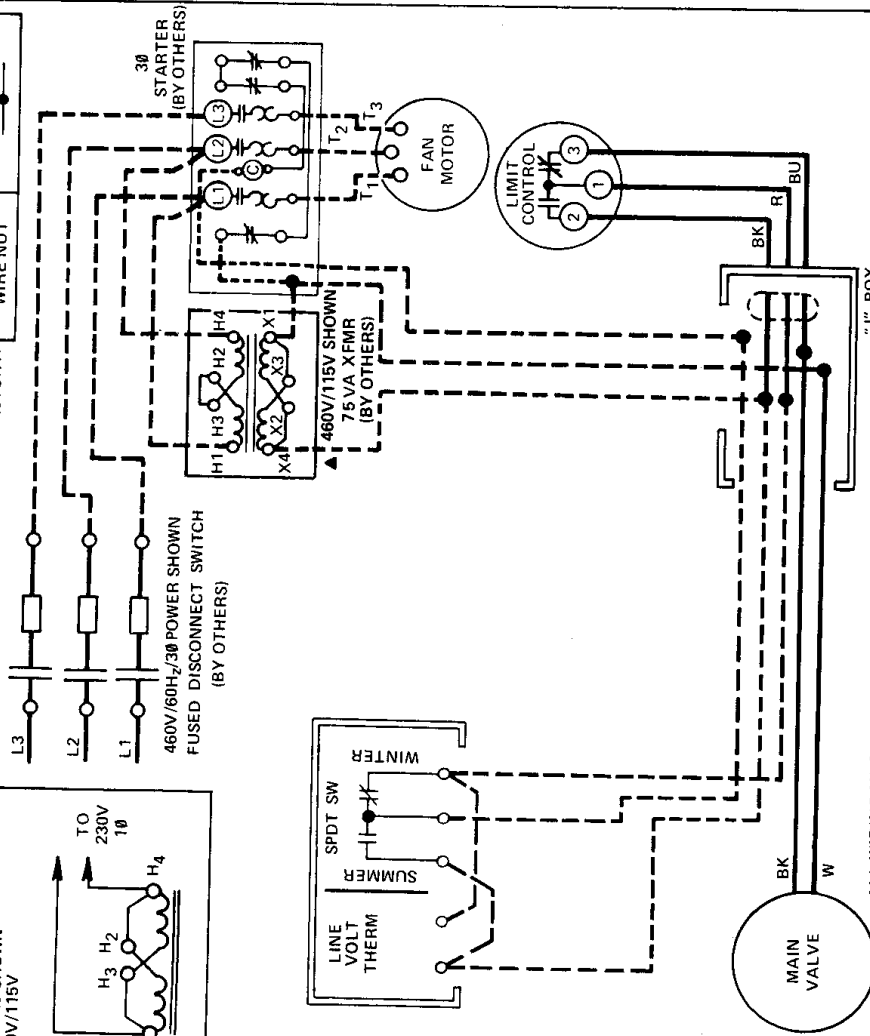
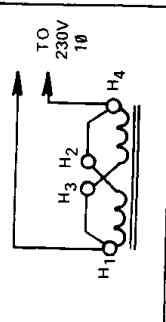


MODINE 6-430 WIRING DIAGRAM MODELS PA, BA

CAUTION
FAILURE TO WIRE THIS UNIT ACCORDING
TO THIS WIRING DIAGRAM MAY RESULT
IN INJURY TO THE INSTALLER OR USER.
FOR DEVIATIONS CONTACT THE FACTORY.

WIRING LEGEND		
FACTORY	FIELD	LOW
---	---	---
---	---	---

WITH 230V/60Hz/3Ø POWER SUPPLY
RECONNECT TRANSFORMER
PRIMARY AS SHOWN
FOR 230V/115V



ALL WIRING MUST COMPLY WITH NATIONAL
ELECTRIC CODE AND ALL LOCAL CODES.
USE 105°C WIRE "J" BOX
FOR REPLACEMENT.

ALL COMPONENTS MUST AGREE WITH
THEIR RESPECTIVE POWER SOURCE.
NOTE TO INSTALLER
ATTACH THIS DIAGRAM
NEAR HEATER

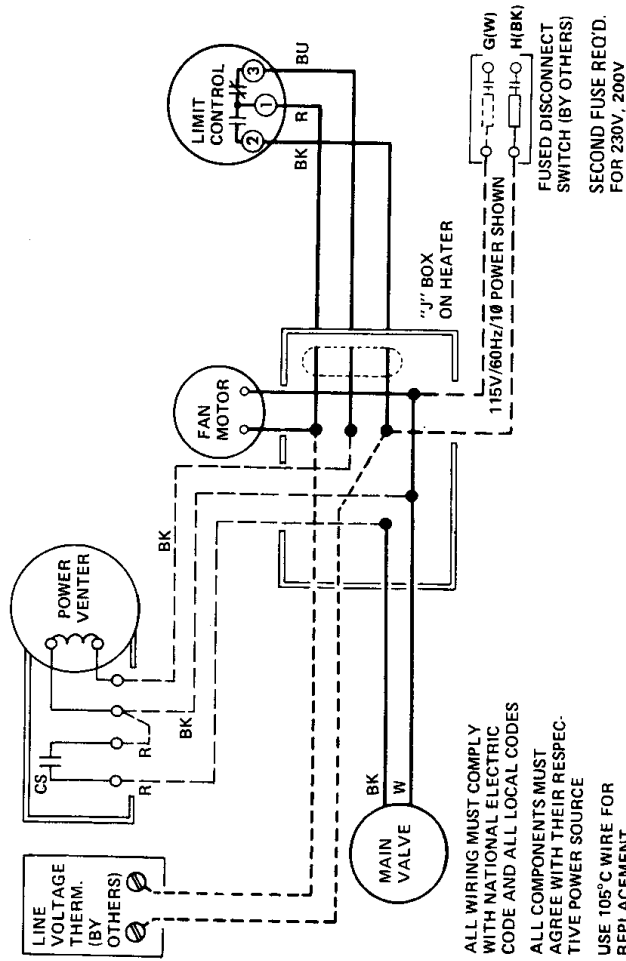
▲ TRANSFORMER NOT REQUIRED WITH 230V/3Ø
POWER SUPPLY AND 230V CONTROL

8H6490B1 — Three-phase, standing pilot, 100% shut-off,
line-voltage thermostat, summer-winter switch.

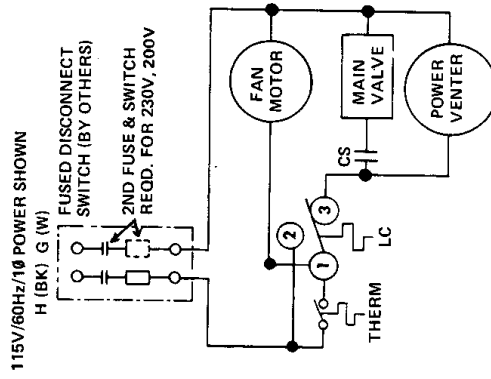
MODINE 6-430 WIRING DIAGRAM MODELS PA, BA

WIRING LEGEND	VOLTAGE	
	LINE	LOW
FACTORY	---	---
FIELD	---	---
WIRENUT	---	---

CAUTION
FAILURE TO WIRE THIS UNIT ACCORDING
TO THIS WIRING DIAGRAM MAY RESULT
IN INJURY TO THE INSTALLER OR USER.
FOR DEVIATIONS CONTACT THE FACTORY.



ALL WIRING MUST COMPLY
WITH NATIONAL ELECTRIC
CODE AND ALL LOCAL CODES
ALL COMPONENTS MUST
AGREE WITH THEIR RESPEC-
TIVE POWER SOURCE
USE 105°C WIRE FOR
REPLACEMENT
NOTE TO INSTALLER:
ATTACH THIS DIAGRAM
NEAR HEATER



8H6490B12 — Single-phase, standing pilot, 100% shut-off,
line-voltage thermostat, power venter.

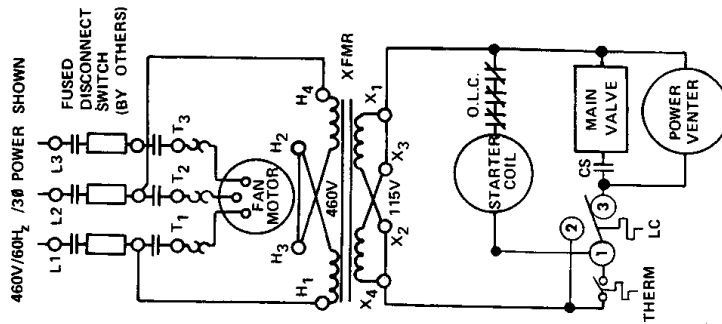
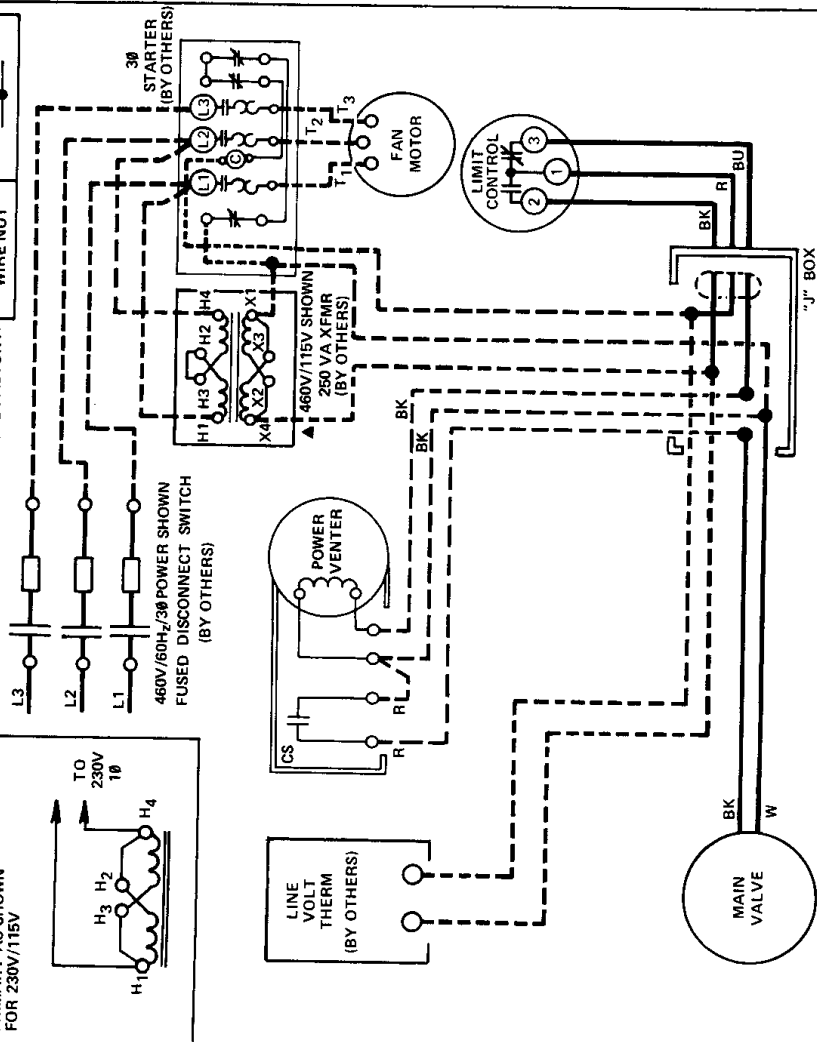
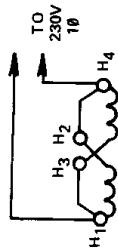


MODINE 6-430 WIRING DIAGRAM MODELS PA, BA

WIRING LEGEND	
FACTORY	LOW
FIELD	---
WIRE NUT	---

CAUTION
FAILURE TO WIRE THIS UNIT ACCORDING
TO THIS WIRING DIAGRAM MAY RESULT
IN INJURY TO THE INSTALLER OR USER.
FOR DEVIATIONS CONTACT THE FACTORY.

WITH 230V/60Hz/3Ø POWER SUPPLY
RECONNECT TRANSFORMER
PRIMARY AS SHOWN
FOR 230V/115V



ALL WIRING MUST COMPLY WITH NATIONAL
ELECTRIC CODE AND ALL LOCAL CODES.
USE 105°C WIRE
FOR REPLACEMENT.

ALL COMPONENTS MUST AGREE WITH
THEIR RESPECTIVE POWER SOURCE.
NOTE TO INSTALLER:
ATTACH THIS DIAGRAM
NEAR HEATER

▲ TRANSFORMER NOT REQUIRED WITH 230V/3Ø
POWER SUPPLY AND 230V CONTROL

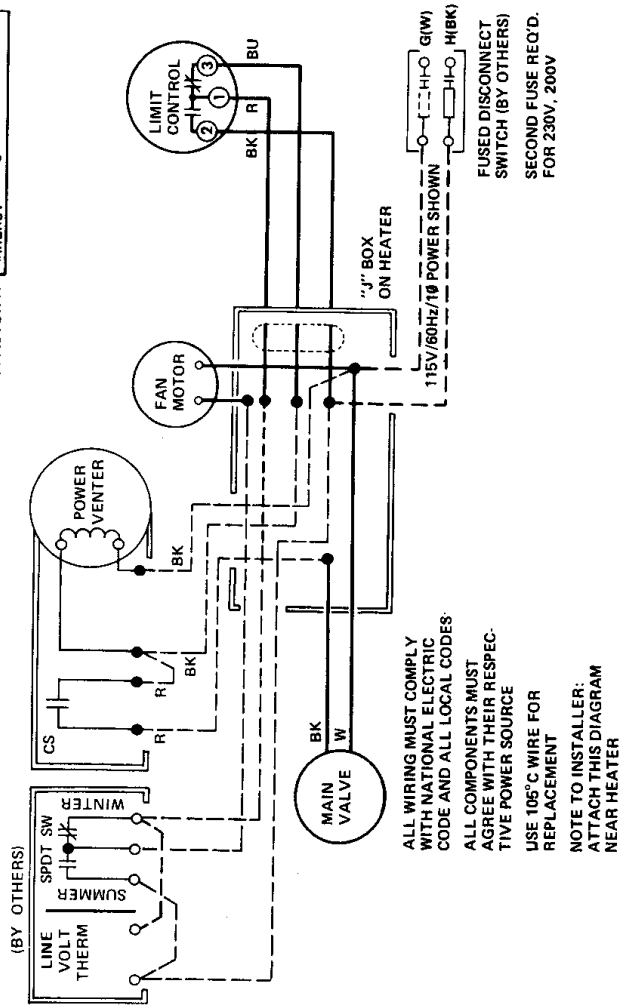
8H6490B12 — Three-phase, standing pilot, 100% shut-off,
line-voltage thermostat, power venter.



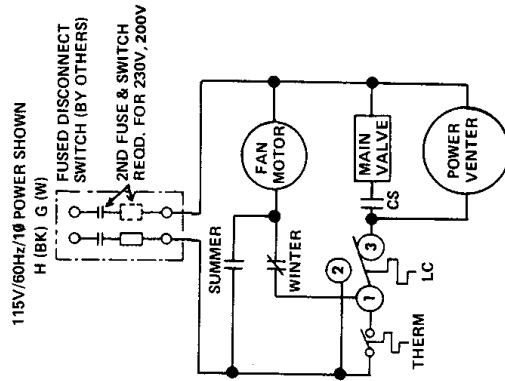
MODINE 6-430 WIRING DIAGRAM MODELS PA, BA

WIRING LEGEND	VOLTAGE
FIELD	LINE
WIRED	LOW

CAUTION
FAILURE TO WIRE THIS UNIT ACCORDING
TO THIS WIRING DIAGRAM MAY RESULT
IN INJURY TO THE INSTALLER OR USER.
FOR DEVIATIONS CONTACT THE FACTORY.



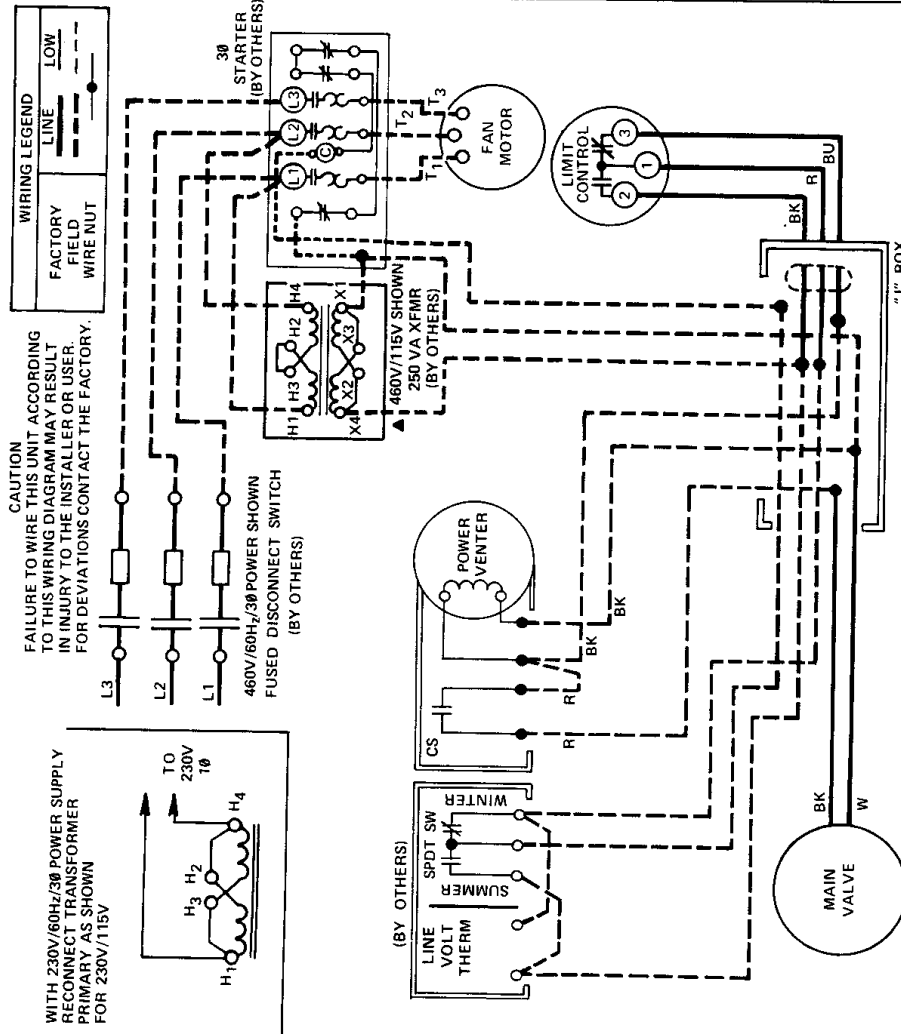
3C



8H6490823 — Single-phase, standing pilot, 100% shut-off, line-voltage
thermostat, summer-winter switch, power venter.



MODINE 6-430 WIRING DIAGRAM MODELS PA, BA



ALL WIRING MUST COMPLY WITH NATIONAL ELECTRIC CODE AND ALL LOCAL CODES.

USE 105°C WIRE FOR REPLACEMENT.

ALL COMPONENTS MUST AGREE WITH THEIR RESPECTIVE POWER SOURCE.

NOTE TO INSTALLER ATTACH THIS DIAGRAM NEAR HEATER

▲ TRANSFORMER NOT REQUIRED WITH 230V/3Ø POWER SUPPLY AND 230V CONTROL

8H6490B23 — Three-phase, standing pilot, 100% shut-off, line-voltage thermostat, summer-winter switch, power venter.

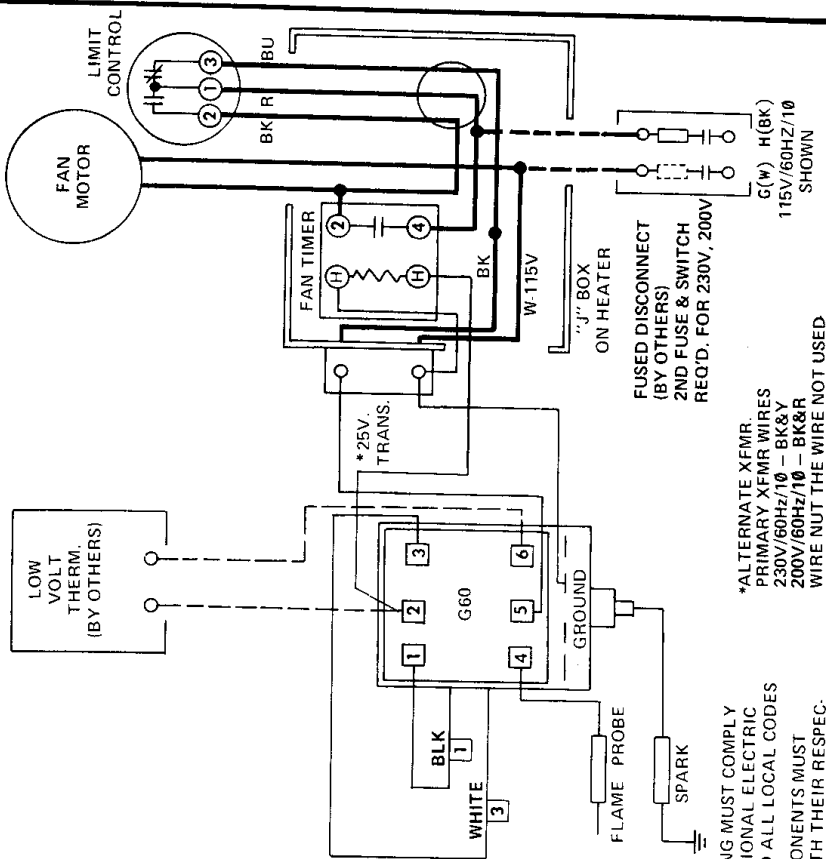


MODINE 6-430 WIRING DIAGRAM MODELS PA/BA

CAUTION

FAILURE TO WIRE THIS UNIT ACCORDING TO THIS WIRING DIAGRAM MAY RESULT IN INJURY TO THE INSTALLER OR USER. FOR DEVIATIONS CONTACT THE FACTORY.

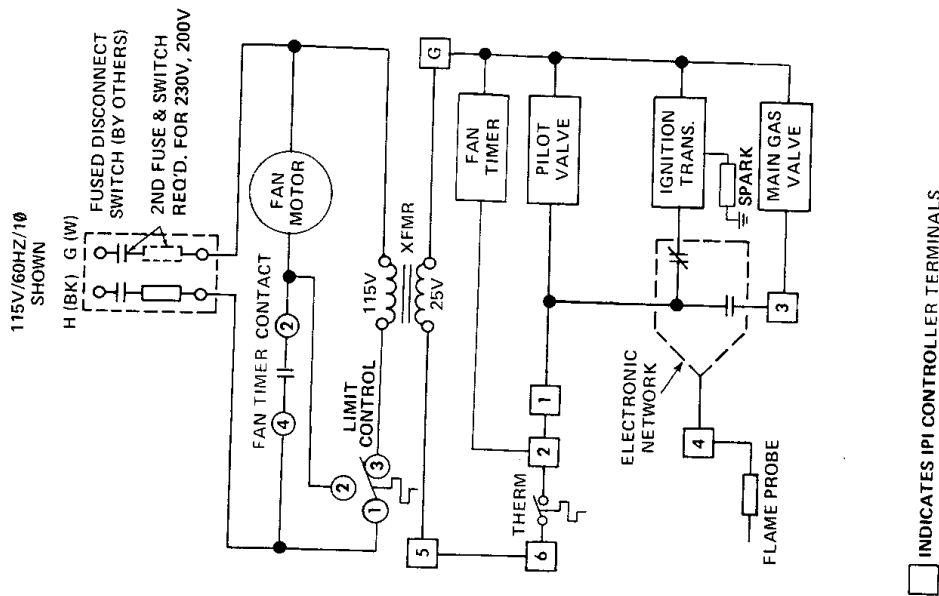
WIRING LEGEND	
FACTORY	LINE
FIELD	LOW
WIRE NUT	



ALL WIRING MUST COMPLY WITH NATIONAL ELECTRIC CODE AND ALL LOCAL CODES. ALL COMPONENTS MUST AGREE WITH THEIR RESPECTIVE POWER SOURCE. USE 105 C WIRE FOR REPLACEMENT.

NOTE TO INSTALLER: ATTACH THIS DIAGRAM NEAR HEATER

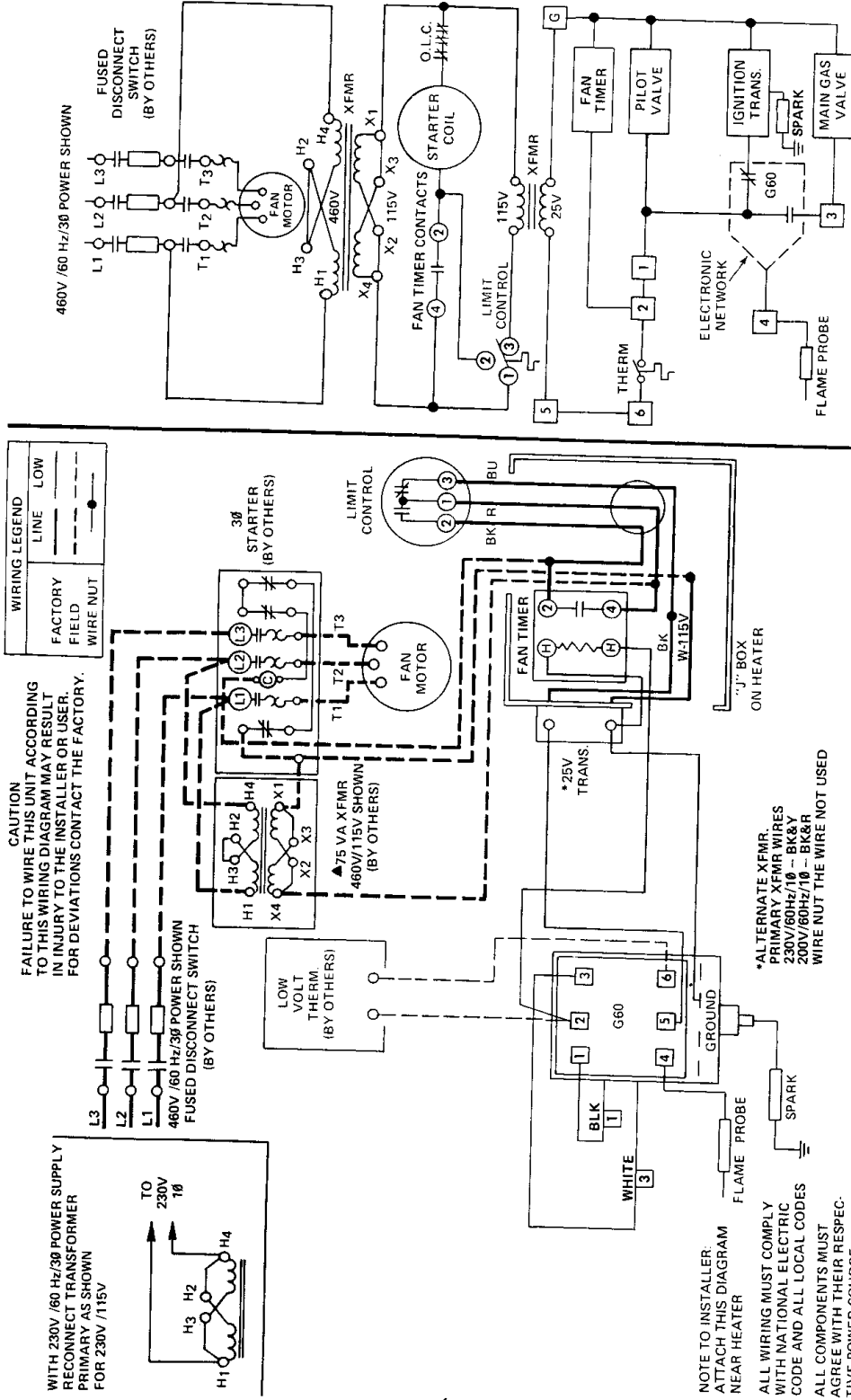
5H70081B11 — Single-phase, intermittent pilot ignition, non-100% shut-off, fan time delay, low-voltage thermostat. (Rev. D)



□ INDICATES IPI CONTROLLER TERMINALS



MODINE 6-430 WIRING DIAGRAM MODELS PA, BA



5H70081B11 — Three-phase, intermittent pilot ignition, non-100% shut-off, fan time delay, low-voltage thermostat. (Rev. D)

□ INDICATES IPI CONTROLLER TERMINALS

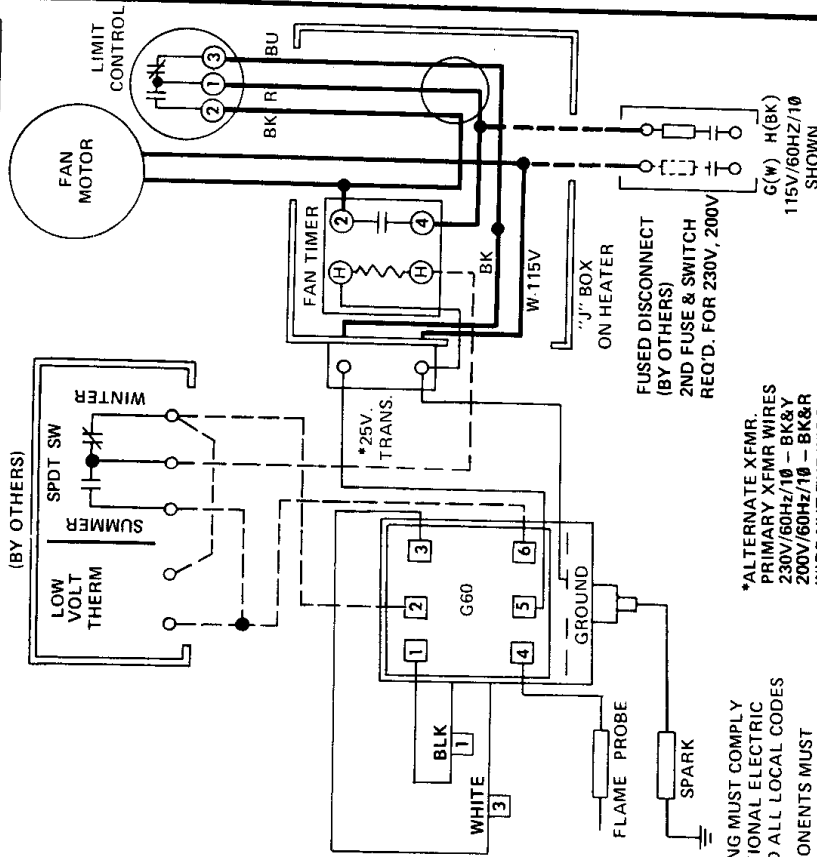


MODINE 6-430 WIRING DIAGRAM MODELS PA/BA

CAUTION

FAILURE TO WIRE THIS UNIT ACCORDING TO THIS WIRING DIAGRAM MAY RESULT IN INJURY TO THE INSTALLER OR USER. FOR DEVIATIONS CONTACT THE FACTORY.

WIRING LEGEND	
FACTORY	LINE
FIELD	LOW
WIRE NUT	---



ALL WIRING MUST COMPLY WITH NATIONAL ELECTRIC CODE AND ALL LOCAL CODES. ALL COMPONENTS MUST AGREE WITH THEIR RESPECTIVE POWER SOURCE. USE 105 C WIRE FOR REPLACEMENT.

NOTE TO INSTALLER: ATTACH THIS DIAGRAM NEAR HEATER

8H6490B2 — Single-phase, intermittent pilot ignition, non-100% shut-off, fan time delay, low-voltage thermostat, summer-winter switch.

115V/60Hz/1Ø SHOWN

H (BK) G (W)

FUSED DISCONNECT SWITCH (BY OTHERS)

2ND FUSE & SWITCH REQ'D. FOR 230V, 200V

115V/60Hz/1Ø SHOWN

H (BK) G (W)

FUSED DISCONNECT SWITCH (BY OTHERS)

2ND FUSE & SWITCH REQ'D. FOR 230V, 200V

115V/60Hz/1Ø SHOWN

H (BK) G (W)

FUSED DISCONNECT SWITCH (BY OTHERS)

2ND FUSE & SWITCH REQ'D. FOR 230V, 200V

115V/60Hz/1Ø SHOWN

H (BK) G (W)

FUSED DISCONNECT SWITCH (BY OTHERS)

2ND FUSE & SWITCH REQ'D. FOR 230V, 200V

115V/60Hz/1Ø SHOWN

H (BK) G (W)

FUSED DISCONNECT SWITCH (BY OTHERS)

2ND FUSE & SWITCH REQ'D. FOR 230V, 200V

115V/60Hz/1Ø SHOWN

H (BK) G (W)

FUSED DISCONNECT SWITCH (BY OTHERS)

2ND FUSE & SWITCH REQ'D. FOR 230V, 200V

115V/60Hz/1Ø SHOWN

H (BK) G (W)

FUSED DISCONNECT SWITCH (BY OTHERS)

2ND FUSE & SWITCH REQ'D. FOR 230V, 200V

115V/60Hz/1Ø SHOWN

H (BK) G (W)

FUSED DISCONNECT SWITCH (BY OTHERS)

2ND FUSE & SWITCH REQ'D. FOR 230V, 200V

115V/60Hz/1Ø SHOWN

H (BK) G (W)

FUSED DISCONNECT SWITCH (BY OTHERS)

2ND FUSE & SWITCH REQ'D. FOR 230V, 200V

115V/60Hz/1Ø SHOWN

H (BK) G (W)

FUSED DISCONNECT SWITCH (BY OTHERS)

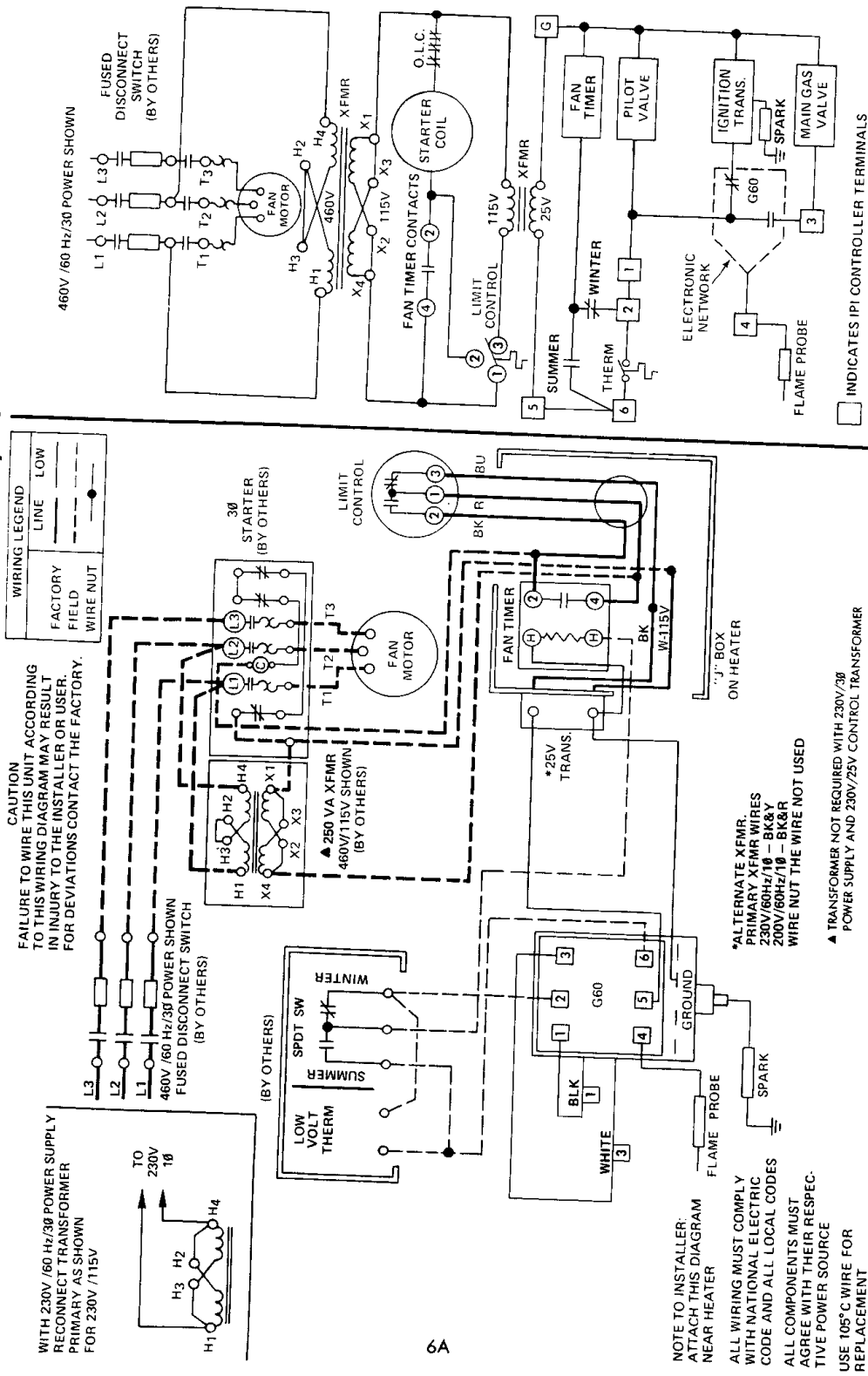
2ND FUSE & SWITCH REQ'D. FOR 230V, 200V

115V/60Hz/1Ø SHOWN

□ INDICATES IPI CONTROLLER TERMINALS



MODINE 6-430 WIRING DIAGRAM MODELS PA, BA

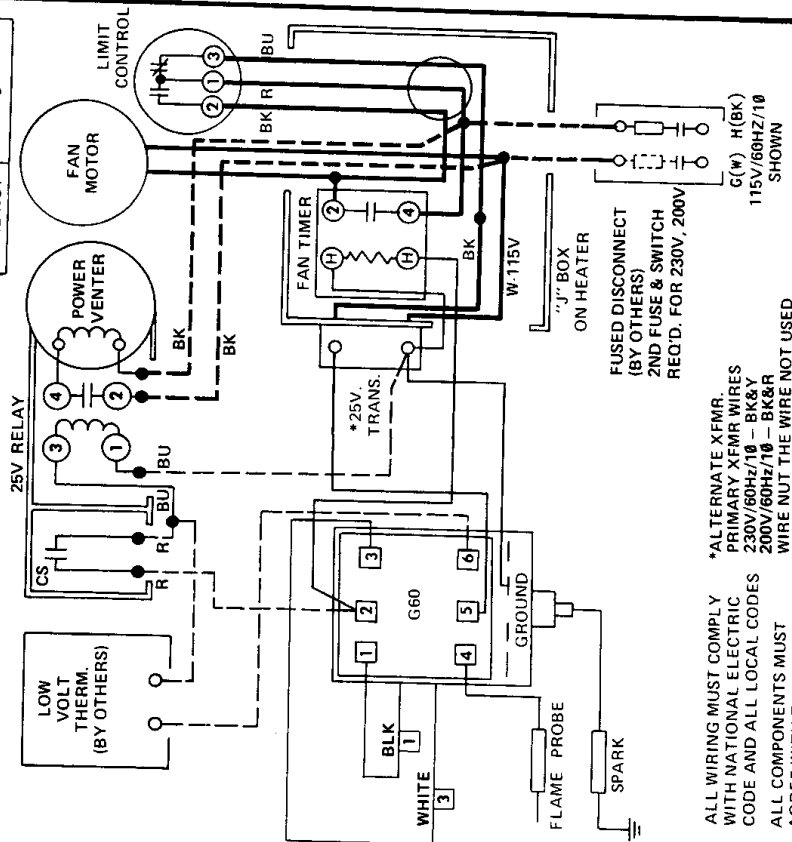




MODINE 6-430 WIRING DIAGRAM MODELS PA/BA

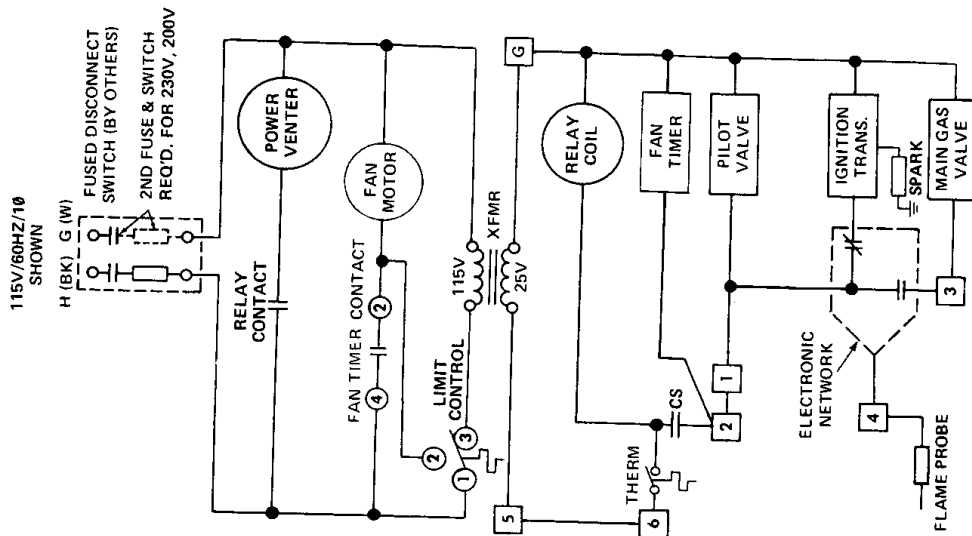
CAUTION
FAILURE TO WIRE THIS UNIT ACCORDING
TO THIS WIRING DIAGRAM MAY RESULT
IN INJURY TO THE INSTALLER OR USER.
FOR DEVIATIONS CONTACT THE FACTORY.

WIRING LEGEND	
FACTORY	LINE
FIELD	LOW
WIRE NUT	



ALL WIRING MUST COMPLY WITH NATIONAL ELECTRIC CODE AND ALL LOCAL CODES
ALL COMPONENTS MUST AGREE WITH THEIR RESPECTIVE POWER SOURCE
USE 105°C WIRE FOR REPLACEMENT
NOTE TO INSTALLER: ATTACH THIS DIAGRAM NEAR HEATER

*ALTERNATE XFMR. PRIMARY XFMR WIRES 230V/60Hz/10 - BK&Y 200V/60Hz/10 - BK&R WIRE NUT THE WIRE NOT USED

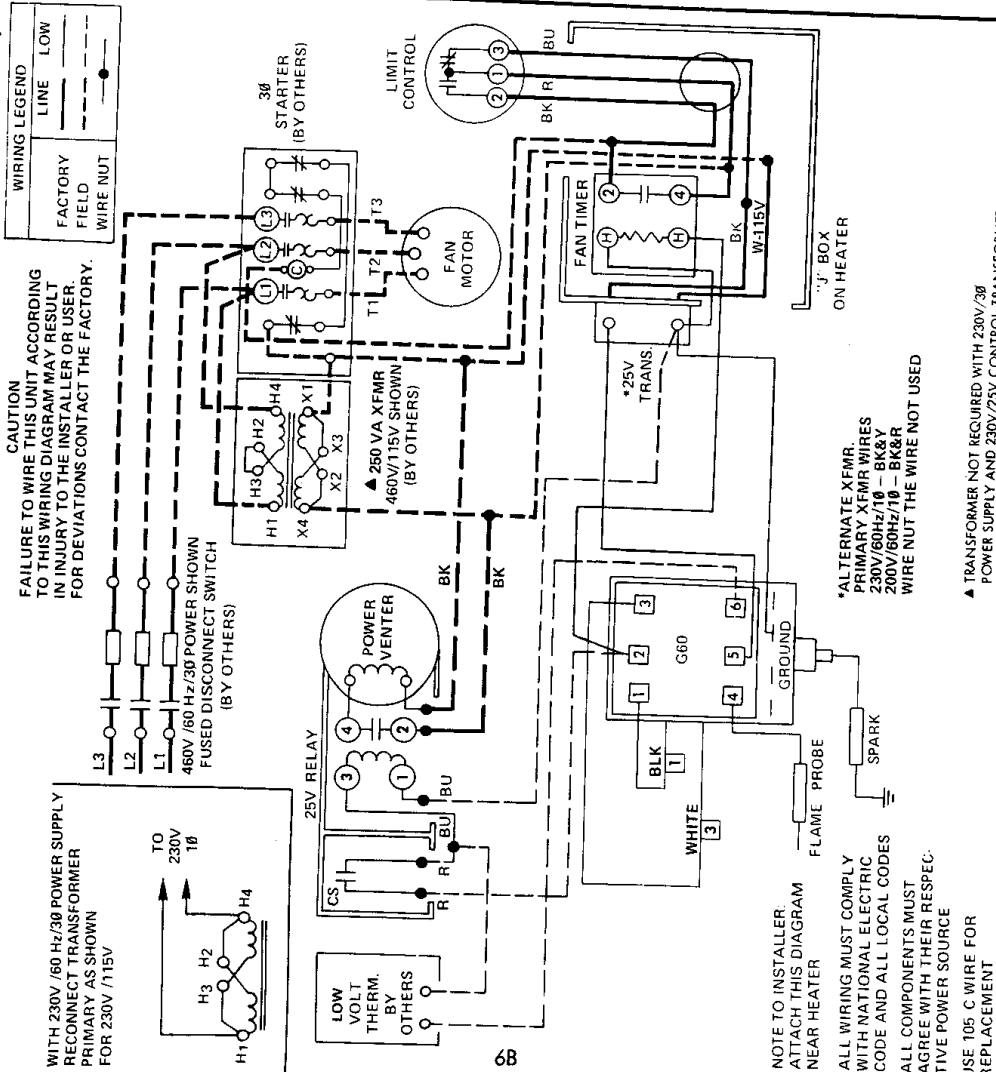


INDICATES IPI CONTROLLER TERMINALS

8H6490B13 — Single-phase, intermittent pilot ignition, fan time delay, low-voltage thermostat, low-voltage controlled power venter.



MODINE 6-430 WIRING DIAGRAM MODELS PA, BA



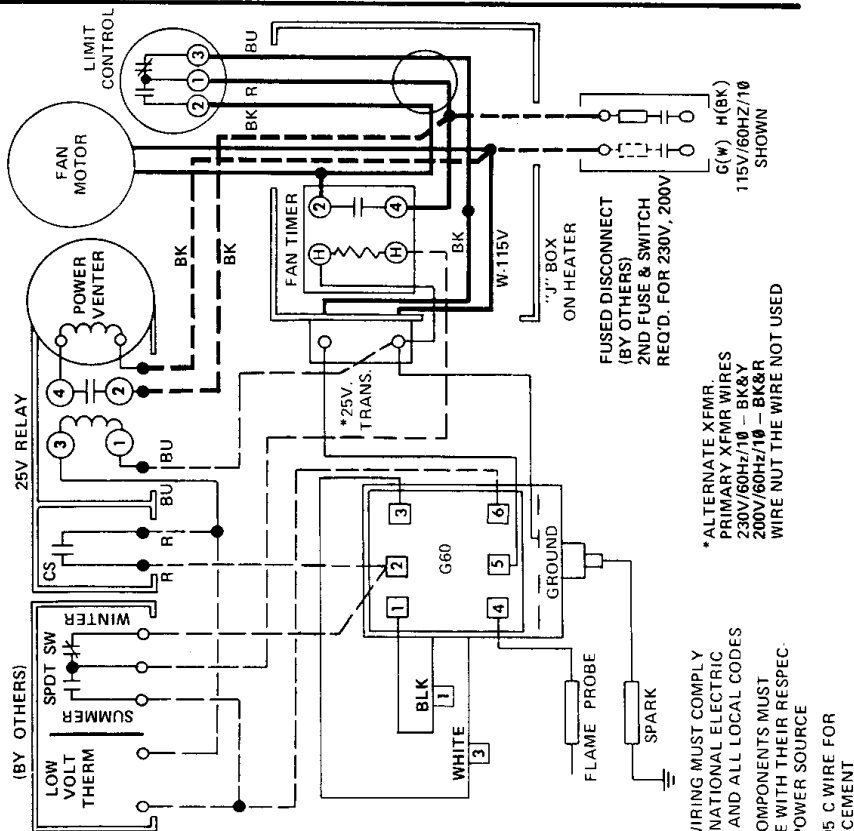
8H6490B13 — Three-phase, intermittent pilot ignition, non-100% Shut-off fan time delay, low-voltage thermostat, low-voltage controlled power venter.



MODINE 6-430 WIRING DIAGRAM MODELS PA/BA

CAUTION
FAILURE TO WIRE THIS UNIT ACCORDING
TO THIS WIRING DIAGRAM MAY RESULT
IN INJURY TO THE INSTALLER OR USER.
FOR DEVIATIONS CONTACT THE FACTORY.

WIRING LEGEND	
LINE	LOW
FACTORY	---
FIELD	---
WIRE NUT	---



ALL WIRING MUST COMPLY
WITH NATIONAL ELECTRIC
CODE AND ALL LOCAL CODES
ALL COMPONENTS MUST
AGREE WITH THEIR RESPEC-
TIVE POWER SOURCE
USE 105 C WIRE FOR
REPLACEMENT

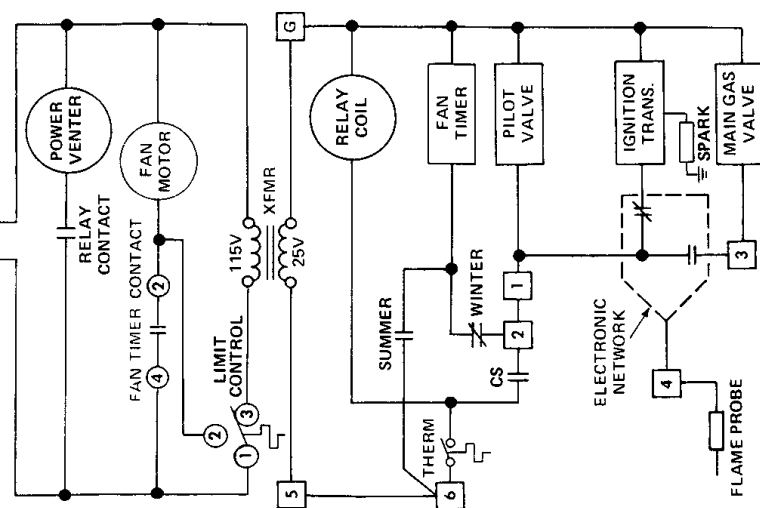
NOTE TO INSTALLER:
ATTACH THIS DIAGRAM
NEAR HEATER

*ALTERNATE XFMR.
PRIMARY XFMR WIRES
230V/60Hz/10 - BK&Y
200V/60Hz/10 - BK&R
WIRE NUT THE WIRE NOT USED

FUSED DISCONNECT
(BY OTHERS)
2ND FUSE & SWITCH
REQ'D. FOR 230V, 200V

115V/60Hz/10
G(W) H(BK)
SHOWN

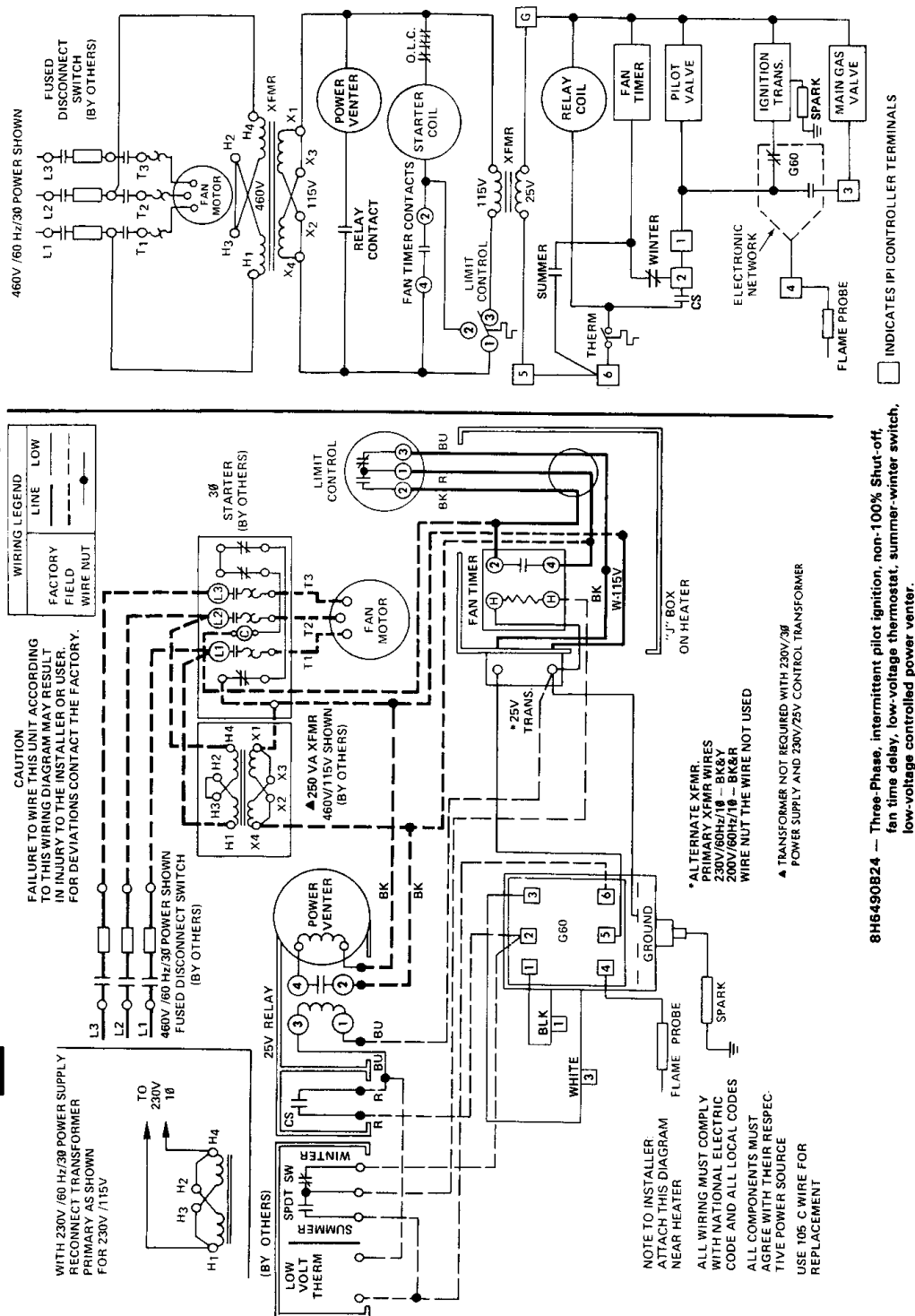
115V/60Hz/10
SHOWN
H (BK) G (W)
FUSED DISCONNECT
SWITCH (BY OTHERS)
2ND FUSE & SWITCH
REQ'D. FOR 230V, 200V



INDICATES IPI CONTROLLER TERMINALS

8H6490824 — Single-Phase, intermittent pilot ignition, non-100% Shut-off,
fan time delay, low-voltage thermostat, summer-winter switch,
low-voltage controlled power venter.

MODINE 6-430 WIRING DIAGRAM MODELS PA, BA



BH6490BZ4 — Three-Phase, intermittent pilot ignition, non-100% Shut-off, fan time delay, low-voltage thermostat, summer-winter switch, low-voltage controlled power vent.

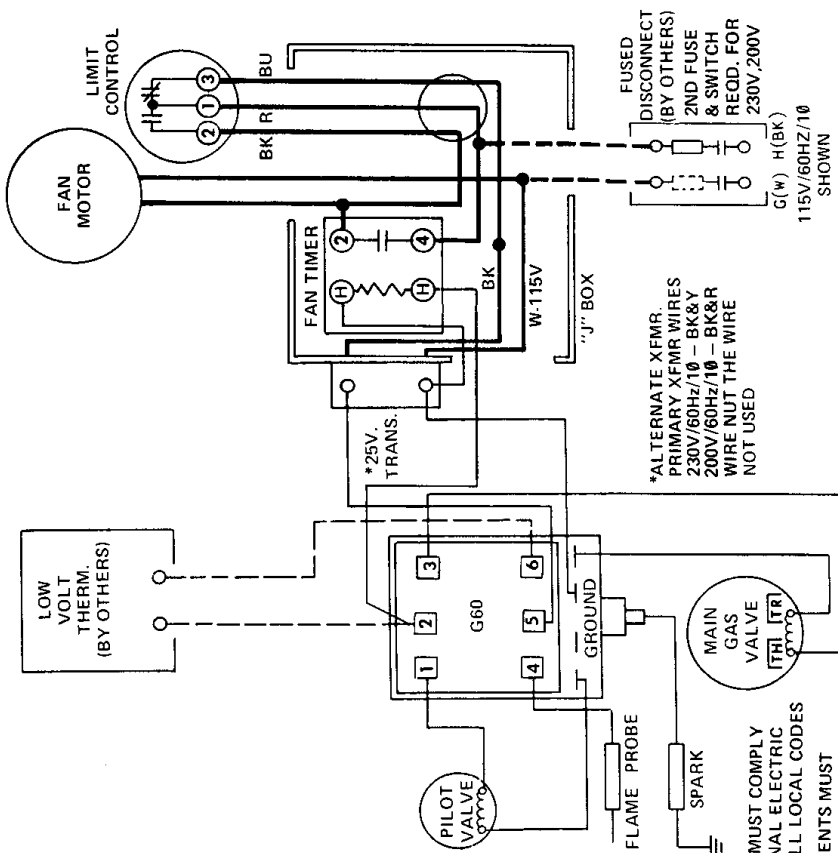


MODINE 6-430 WIRING DIAGRAM MODELS PA, BA

CAUTION

FAILURE TO WIRE THIS UNIT ACCORDING TO THIS WIRING DIAGRAM MAY RESULT IN INJURY TO THE INSTALLER OR USER. FOR DEVIATIONS CONTACT THE FACTORY.

WIRING LEGEND	
FACTORY	LINE
FIELD	LOW
WIRE NUT	



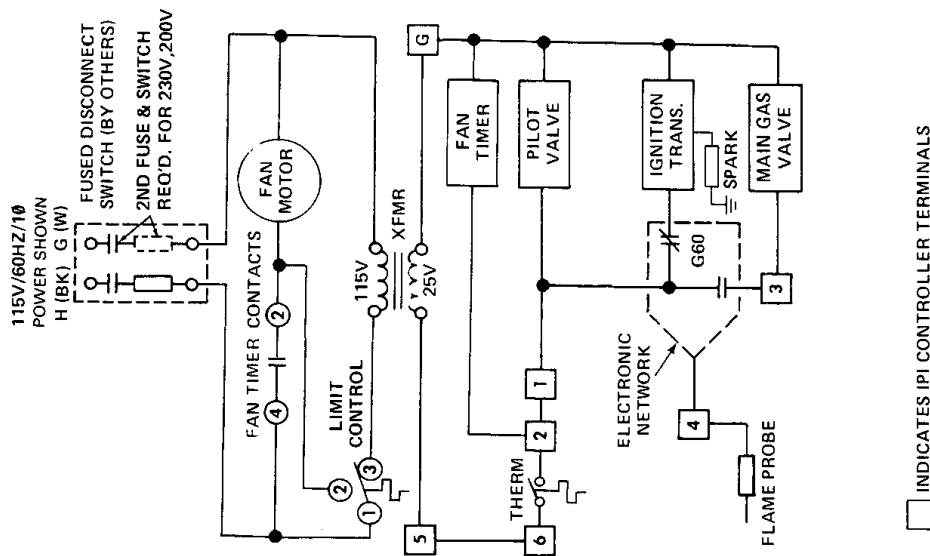
ALL WIRING MUST COMPLY WITH NATIONAL ELECTRIC CODE AND ALL LOCAL CODES

ALL COMPONENTS MUST AGREE WITH THEIR RESPECTIVE POWER SOURCE

USE 105°C WIRE FOR REPLACEMENT

NOTE TO INSTALLER: ATTACH THIS DIAGRAM NEAR HEATER

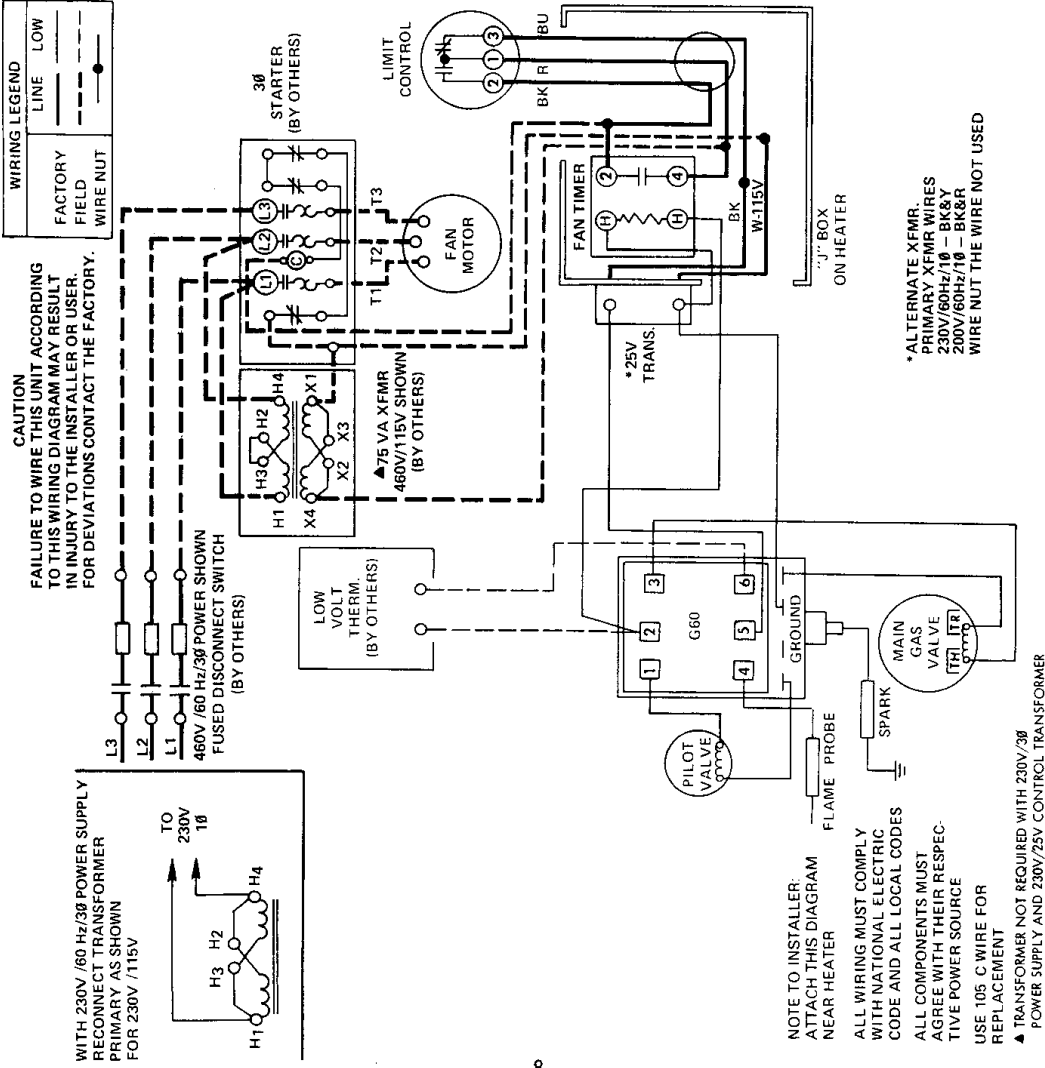
5H70081B2 — Single-phase, intermittent pilot ignition, non-100% shut-off, fan time delay, low-voltage thermostat. (Rev. E)



□ INDICATES IPI CONTROLLER TERMINALS



MODINE 6-430 WIRING DIAGRAM MODELS PA, BA





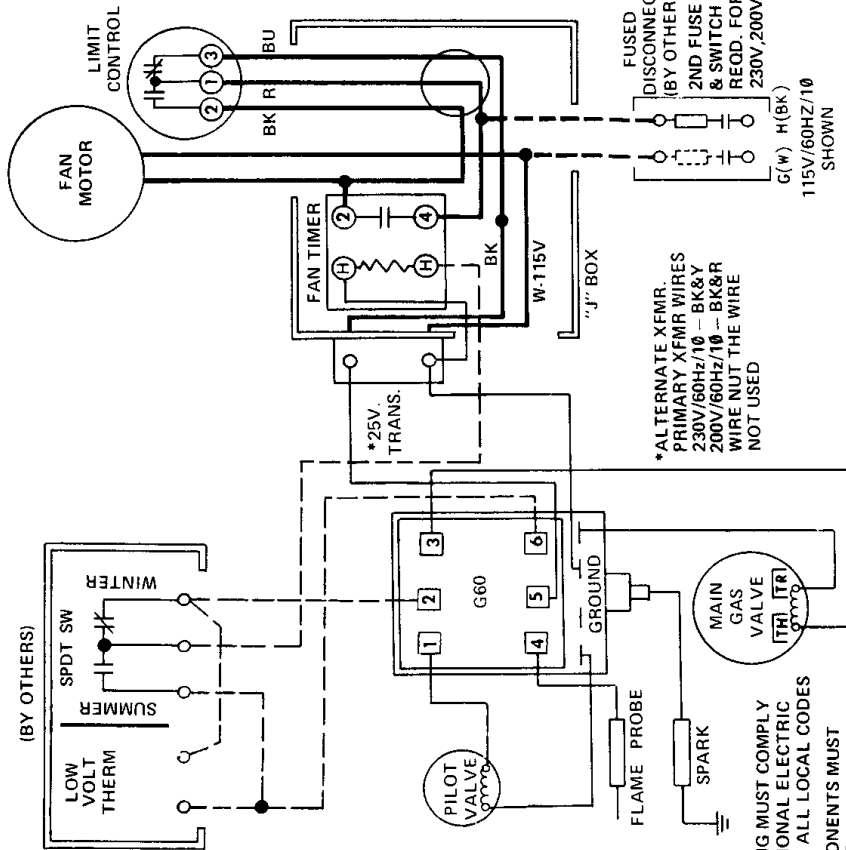
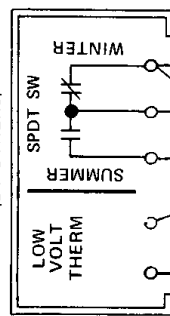
MODINE 6-430 WIRING DIAGRAM MODELS PA, BA

CAUTION

FAILURE TO WIRE THIS UNIT ACCORDING TO THIS WIRING DIAGRAM MAY RESULT IN INJURY TO THE INSTALLER OR USER. FOR DEVIATIONS CONTACT THE FACTORY.

WIRING LEGEND	
FACTORY	LOW
FIELD	---
WIRE NUT	•

(BY OTHERS)



ALL WIRING MUST COMPLY WITH NATIONAL ELECTRIC CODE AND ALL LOCAL CODES
ALL COMPONENTS MUST AGREE WITH THEIR RESPECTIVE POWER SOURCE
USE 105°C WIRE FOR REPLACEMENT

NOTE TO INSTALLER:
ATTACH THIS DIAGRAM NEAR HEATER

8H6490B3 — Single-phase, intermittent pilot ignition, non-100% shut-off, fan time delay, low-voltage thermostat, summer-winter switch.

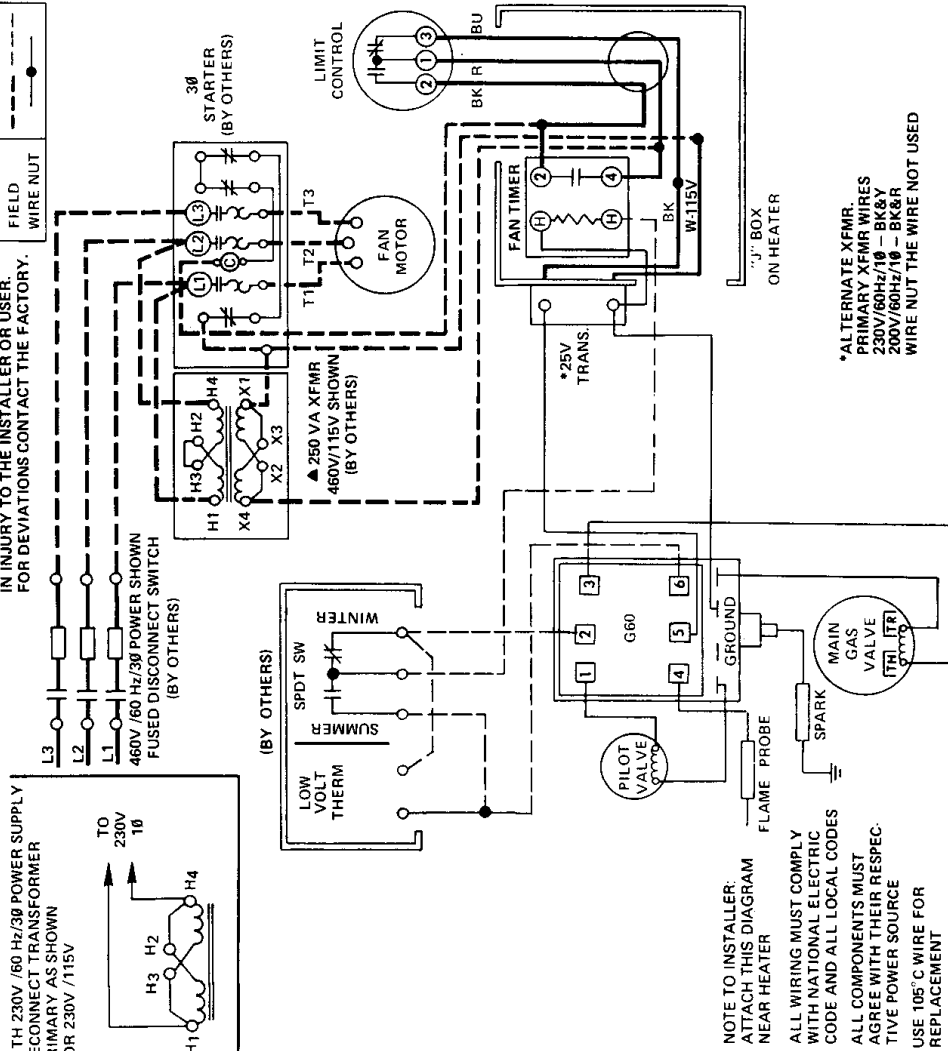
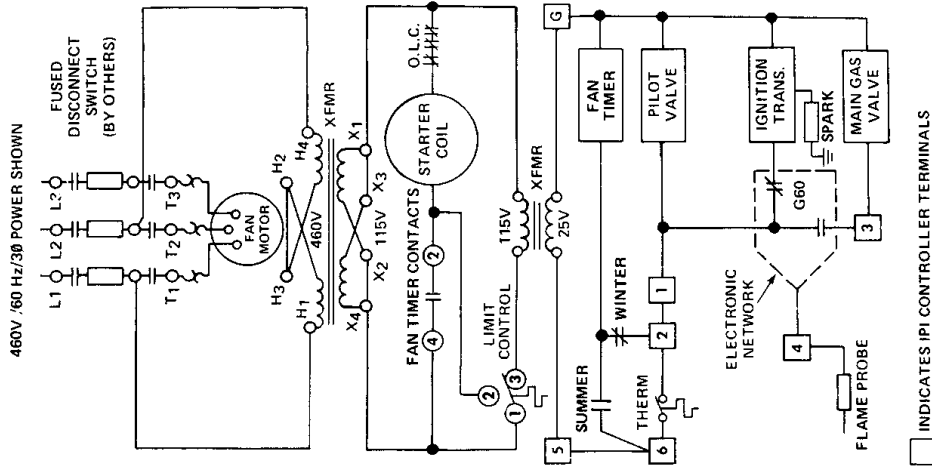
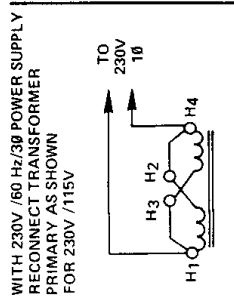
□ INDICATES PI CONTROLLER TERMINALS



MODINE 6-430 WIRING DIAGRAM MODELS PA, BA

WIRING LEGEND	
FACTORY	LOW
---	---
---	---
---	---

CAUTION
FAILURE TO WIRE THIS UNIT ACCORDING
TO THIS WIRING DIAGRAM MAY RESULT
IN INJURY TO THE INSTALLER OR USER.
FOR DEVIATIONS CONTACT THE FACTORY.



NOTE TO INSTALLER:
ATTACH THIS DIAGRAM
NEAR HEATER

ALL WIRING MUST COMPLY
WITH NATIONAL ELECTRIC
CODE AND ALL LOCAL CODES

ALL COMPONENTS MUST
AGREE WITH THEIR RESPEC-
TIVE POWER SOURCE

USE 105°C WIRE FOR
REPLACEMENT

▲ TRANSFORMER NOT REQUIRED WITH 230V/3Ø
POWER SUPPLY AND 230V/25V CONTROL TRANSFORMER

*ALTERNATE XFMR.
PRIMARY XFMR WIRES
230V/60Hz/1Ø - BK&Y
200V/60Hz/1Ø - BK&R
WIRE NUT THE WIRE NOT USED

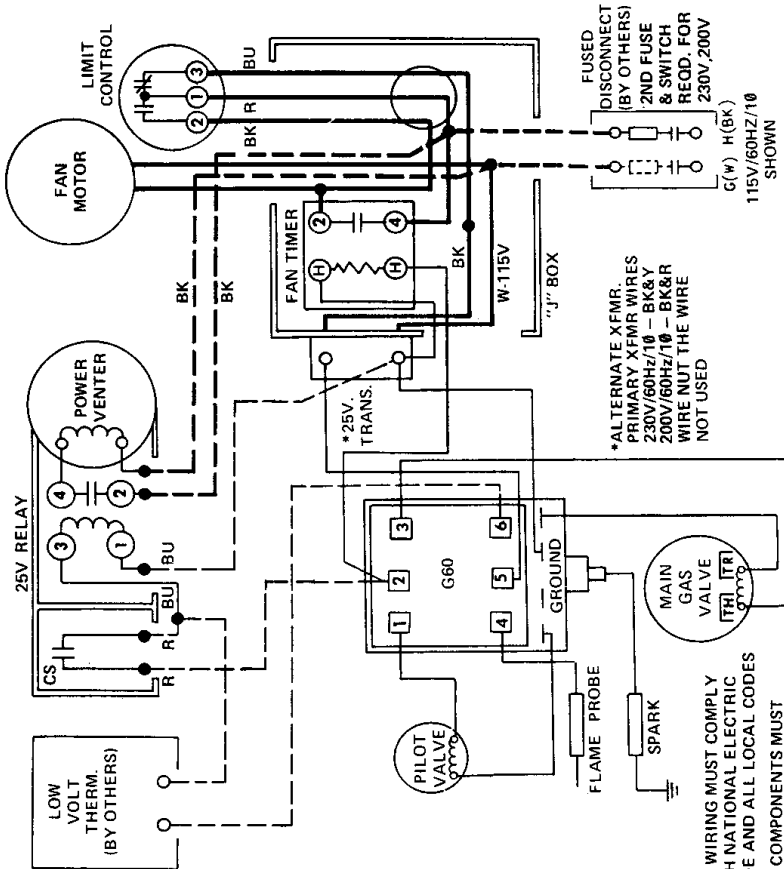
8H6490B3 — Three-phase, intermittent pilot ignition, non-100% shut-off,
fan time delay, low-voltage thermostat, summer-winter switch.



MODINE 6-430 WIRING DIAGRAM MODELS PA, BA

CAUTION
FAILURE TO WIRE THIS UNIT ACCORDING
TO THIS WIRING DIAGRAM MAY RESULT
IN INJURY TO THE INSTALLER OR USER.
FOR DEVIATIONS CONTACT THE FACTORY.

WIRING LEGEND	
LINE	LOW
FACTORY	---
FIELD	- - -
WIRE NUT	•



ALL WIRING MUST COMPLY
WITH NATIONAL ELECTRIC
CODE AND ALL LOCAL CODES
ALL COMPONENTS MUST
AGREE WITH THEIR RESPEC-
TIVE POWER SOURCE
USE 105°C WIRE FOR
REPLACEMENT

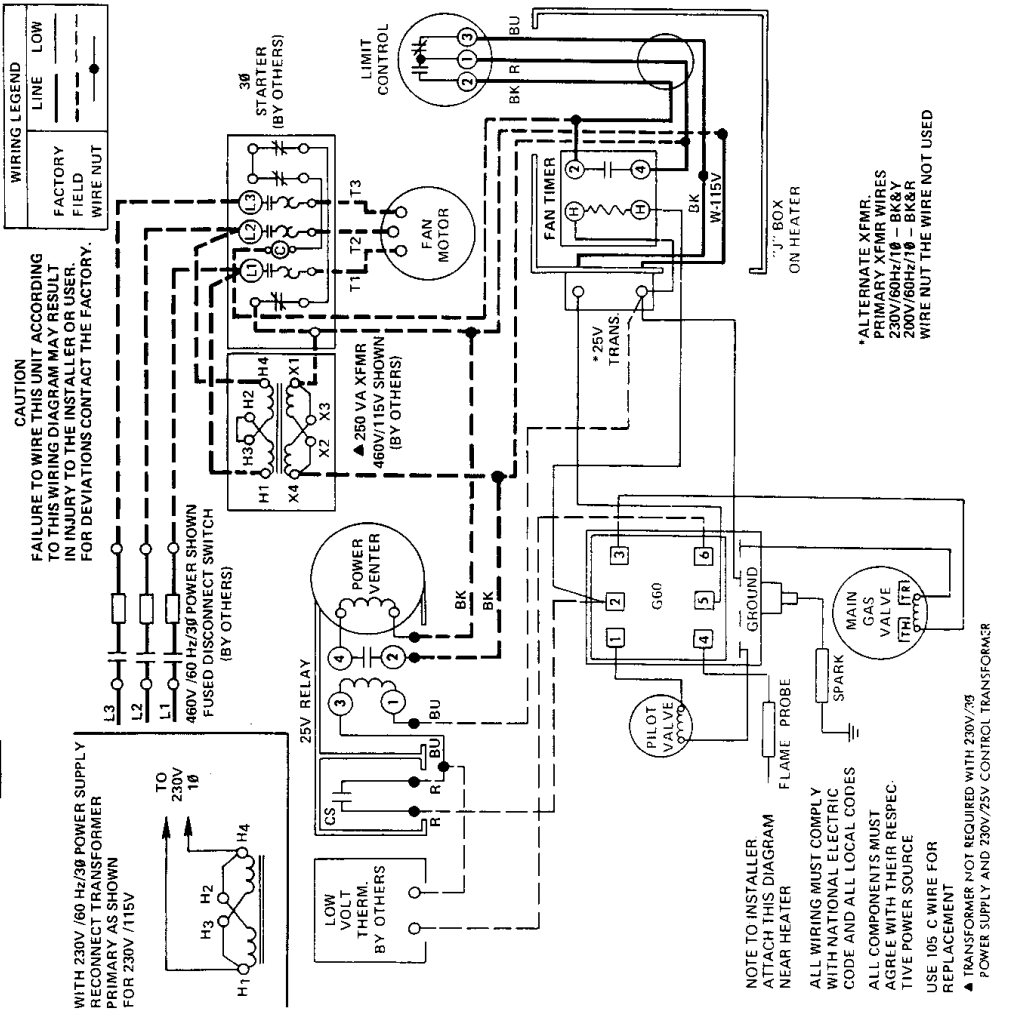
NOTE TO INSTALLER:
ATTACH THIS DIAGRAM
NEAR HEATER

□ INDICATES IPI CONTROLLER TERMINALS

8H6490B14 — Single-phase, intermittent pilot ignition, non-100% Shut-off, fan time delay, low-voltage thermostat, low-voltage controlled power venter.



MODINE 6-430 WIRING DIAGRAM MODELS PA, BA



8H6490B14 — Three-phase, intermittent pilot ignition, non-100% Shut off, fan time delay, low-voltage thermostat, low-voltage controlled power venter.

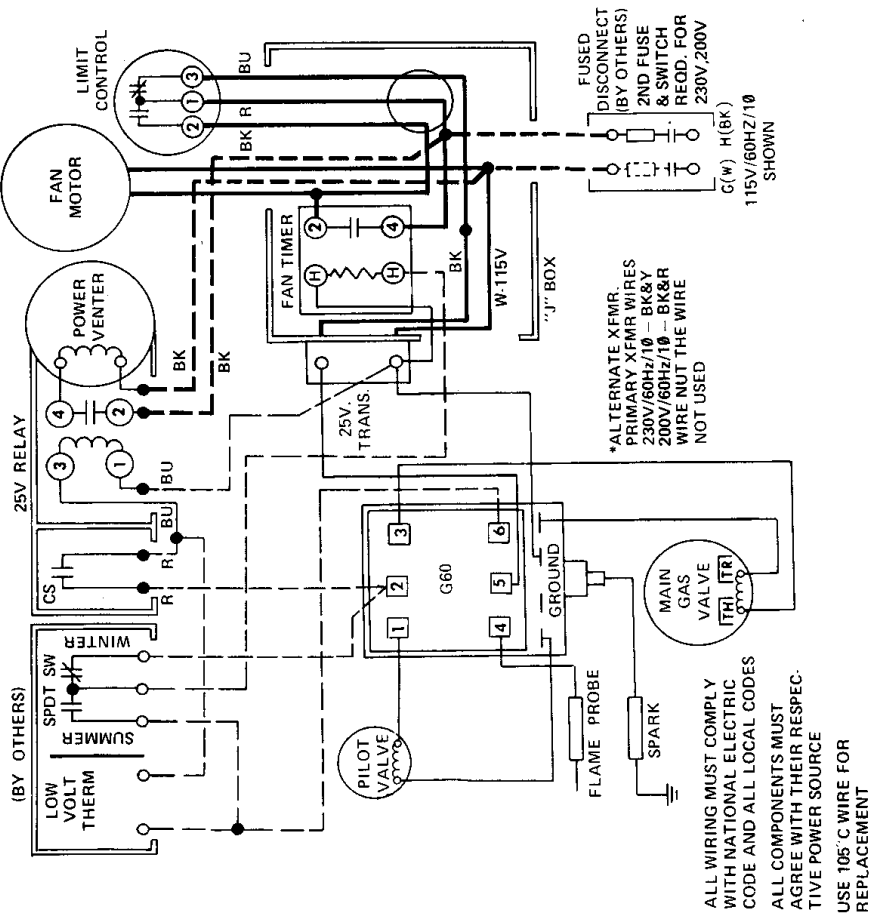


MODINE 6-430 WIRING DIAGRAM MODELS PA, BA

CAUTION

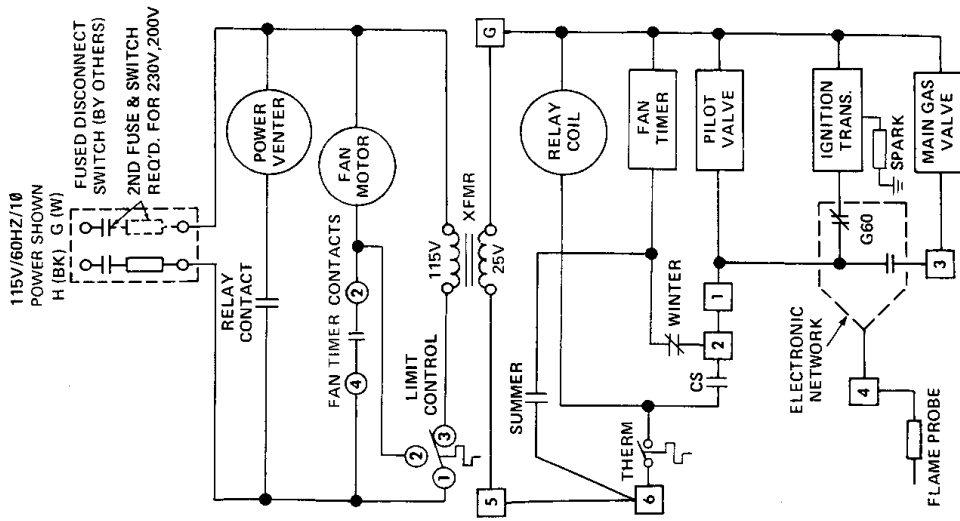
FAILURE TO WIRE THIS UNIT ACCORDING TO THIS WIRING DIAGRAM MAY RESULT IN INJURY TO THE INSTALLER OR USER. FOR DEVIATIONS CONTACT THE FACTORY.

WIRING LEGEND	
LINE	LOW
FACORY	---
FIELD	---
WIRE NUT	•



ALL WIRING MUST COMPLY WITH NATIONAL ELECTRIC CODE AND ALL LOCAL CODES. ALL COMPONENTS MUST AGREE WITH THEIR RESPECTIVE POWER SOURCE. USE 105°C WIRE FOR REPLACEMENT.

NOTE TO INSTALLER: ATTACH THIS DIAGRAM NEAR HEATER



□ INDICATES IPI CONTROLLER TERMINALS

8H6490B25 — Single-phase, intermittent pilot ignition, non-100% Shut-off, fan time delay, low-voltage thermostat, summer-winter switch, low-voltage controlled power venter.

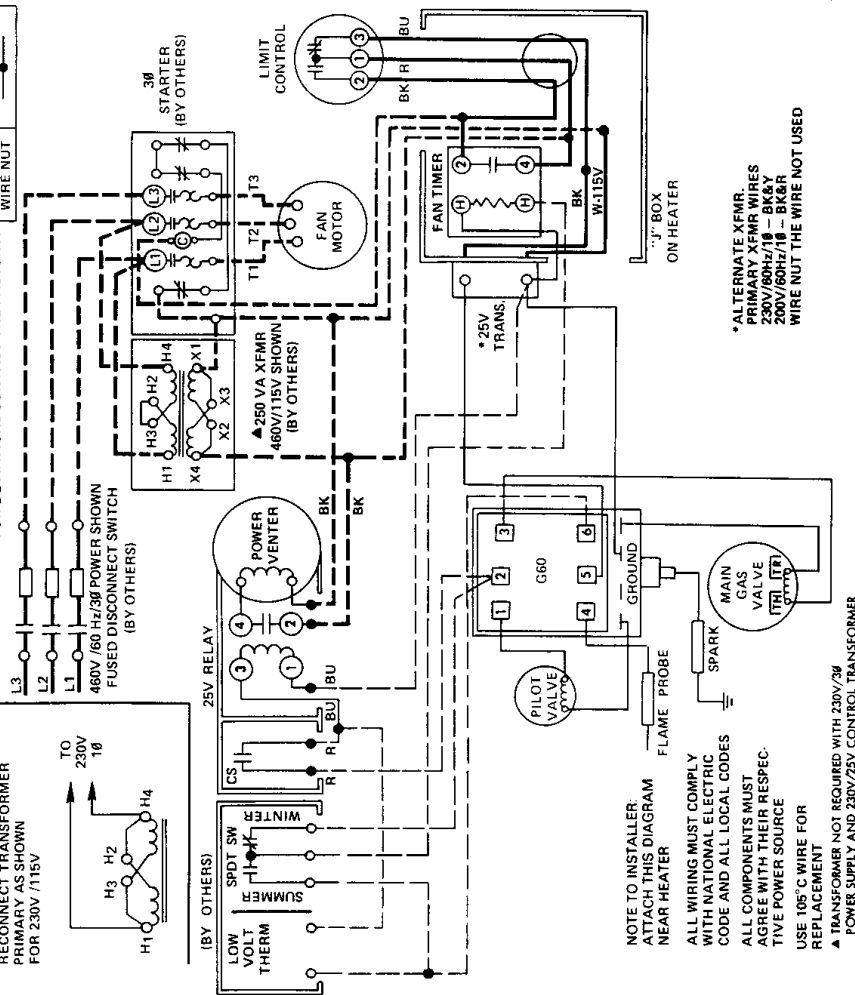
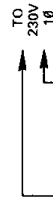


MODINE 6-430 WIRING DIAGRAM MODELS PA, BA

WIRING LEGEND	
LINE	LOW
FACTORY	FIELD
WIRE NUT	

CAUTION
FAILURE TO WIRE THIS UNIT ACCORDING
TO THIS WIRING DIAGRAM MAY RESULT
IN INJURY TO THE INSTALLER OR USER.
FOR DEVIATIONS CONTACT THE FACTORY.

WITH 230V / 60 HZ/3Ø POWER SUPPLY
RECONNECT TRANSFORMER
PRIMARY AS SHOWN
FOR 230V / 115V



NOTE TO INSTALLER:
ATTACH THIS DIAGRAM
NEAR HEATER

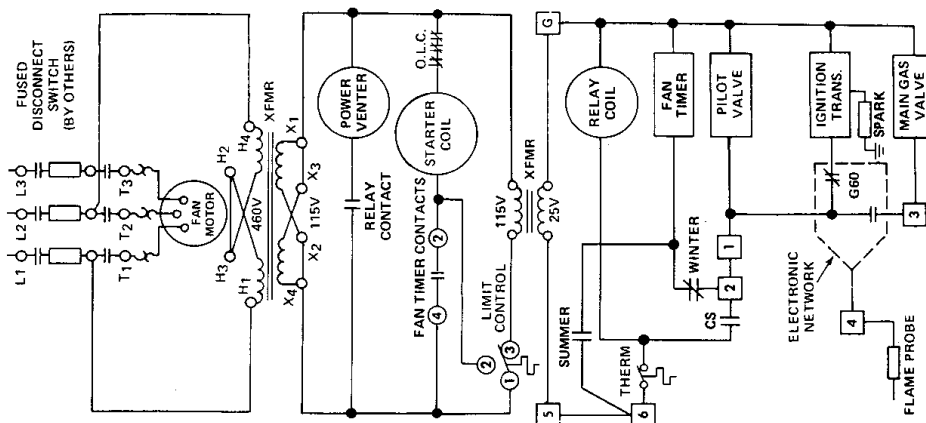
ALL WIRING MUST COMPLY
WITH NATIONAL ELECTRIC
CODE AND ALL LOCAL CODES
ALL COMPONENTS MUST
AGREE WITH THEIR RESPEC-
TIVE POWER SOURCE
USE 105°C WIRE FOR
REPLACEMENT
▲ TRANSFORMER NOT REQUIRED WITH 230V/3Ø
POWER SUPPLY AND 230V/25V CONTROL TRANSFORMER

*ALTERNATE XFMR.
PRIMARY XFMR WIRES
230V/60Hz/1Ø - BK&Y
200V/60Hz/1Ø - BK&R
WIRE NUT THE WIRE NOT USED

▲ TRANSFORMER NOT REQUIRED WITH 230V/3Ø
POWER SUPPLY AND 230V/25V CONTROL TRANSFORMER

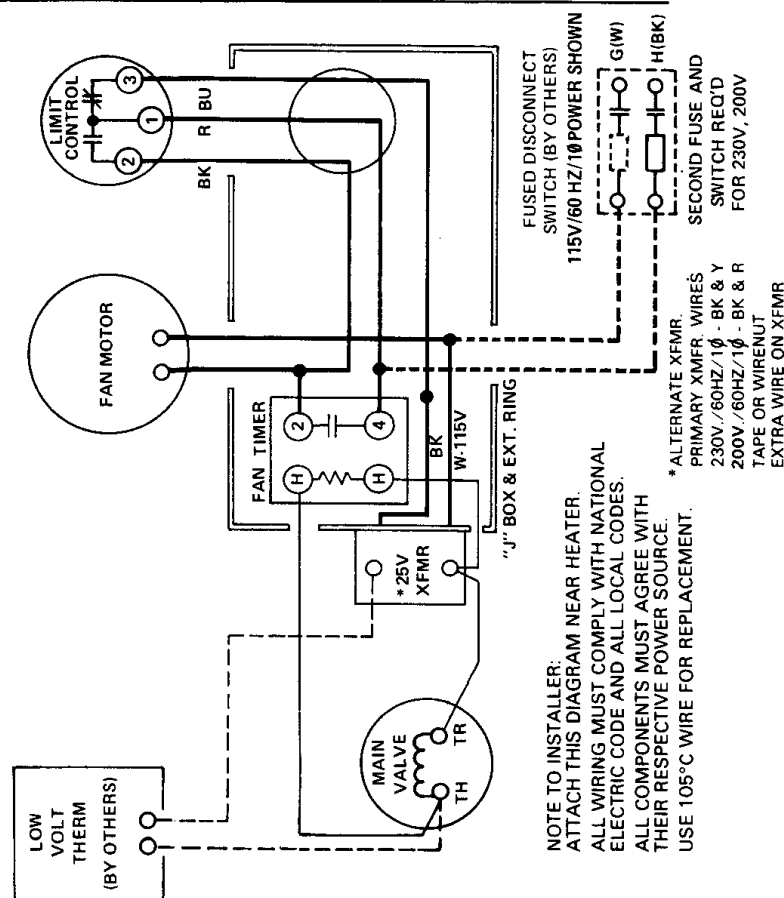
8H6490825 — Three-phase, intermittent pilot ignition, non-100% Shut-off,
fan time delay, low-voltage thermostat, summer-winter switch,
low-voltage controlled power venter.

460V / 60 HZ/3Ø POWER SHOWN



□ INDICATES IPI CONTROLLER TERMINALS

WIRING LEGEND	
FACTORY	LINE
FIELD	LOW
WIRE NUT	



5H70081B3 — Single-phase, standing pilot, 100% shut-off, fan time delay, low-voltage thermostat. (Rev. F)

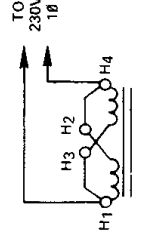


MODINE 6-430 WIRING DIAGRAM MODELS PA, BA

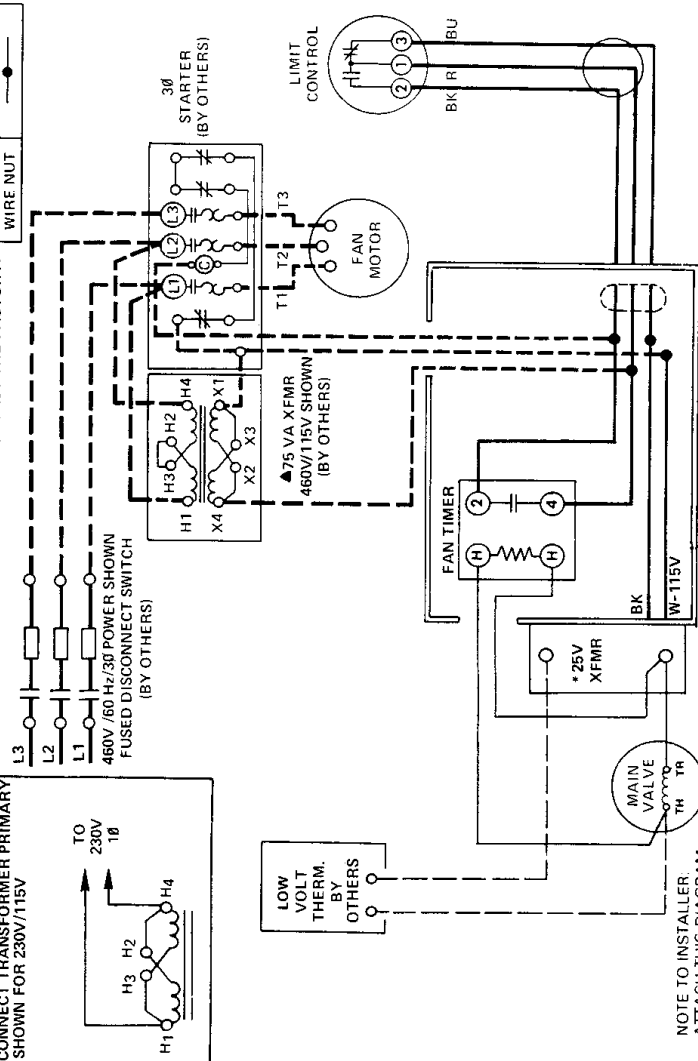
WIRING LEGEND	
FACTORY	LINE
FIELD	LOW
WIRE NUT	

CAUTION
FAILURE TO WIRE THIS UNIT ACCORDING
TO THIS WIRING DIAGRAM MAY RESULT
IN INJURY TO THE INSTALLER OR USER.
FOR DEVIATIONS CONTACT THE FACTORY.

WITH 230V/60 HZ/3Ø POWER SUPPLY
RECONNECT TRANSFORMER PRIMARY
AS SHOWN FOR 230V/115V



460V /60 HZ/3Ø POWER SHOWN
FUSED DISCONNECT SWITCH
(BY OTHERS)



NOTE TO INSTALLER
ATTACH THIS DIAGRAM
NEAR HEATER

ALL WIRING MUST COMPLY
WITH NATIONAL ELECTRIC
CODE AND ALL LOCAL CODES
ALL COMPONENTS MUST
AGREE WITH THEIR RESPEC-
TIVE POWER SOURCE
USE 105 C WIRE FOR
REPLACEMENT

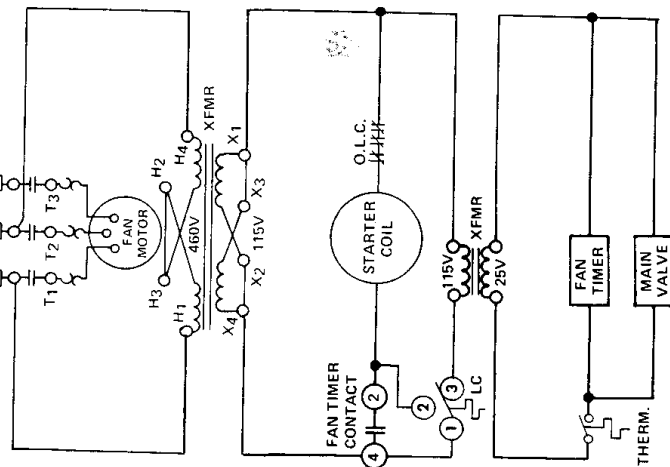
* ALTERNATE XFMR.
PRIMARY XFMR WIRES
230V/60Hz/1Ø - BK&Y
200V/60Hz/1Ø - BK&R
WIRE NUT THE WIRE NOT USED

▲ TRANSFORMER NOT REQUIRED WITH 230V/3Ø
POWER SUPPLY AND 230V/25V CONTROL TRANSFORMER

5H70081B3 — Three-phase, standing pilot, 100% shut-off,
fan time delay, low-voltage thermostat. (Rev. F)

460V /60 HZ/3Ø POWER SHOWN

FUSED
DISCONNECT
SWITCH
(BY OTHERS)

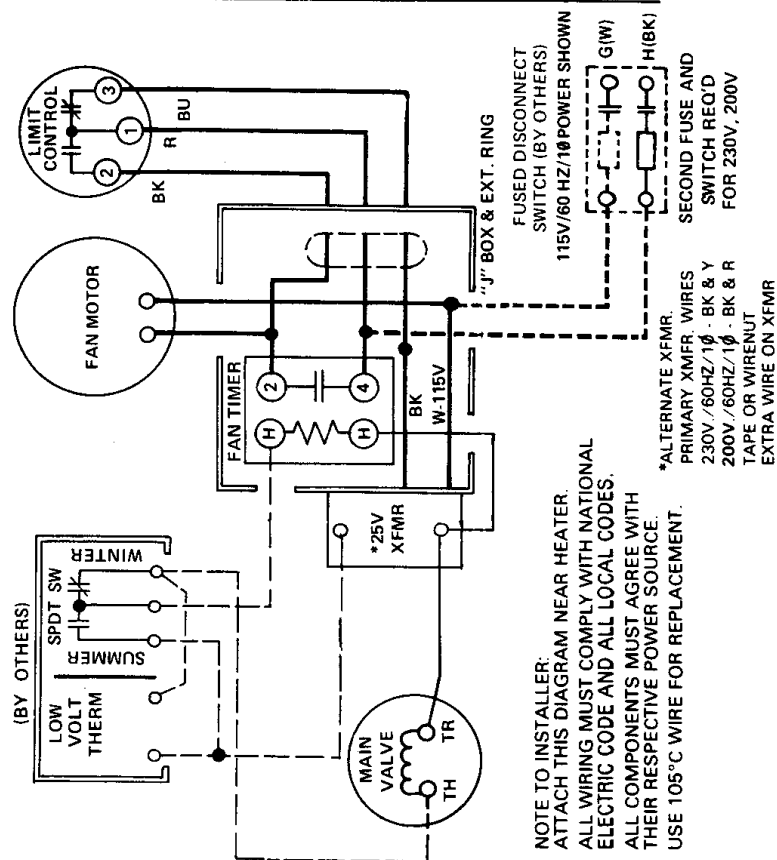




MODINE 6-430 WIRING DIAGRAM MODELS PA, BA

CAUTION
FAILURE TO WIRE THIS UNIT ACCORDING
TO THIS WIRING DIAGRAM MAY RESULT
IN INJURY TO THE INSTALLER OR USER.
FOR DEVIATIONS CONTACT THE FACTORY.

WIRING LEGEND		
FACTORY	LINE	LOW
FIELD	---	---
WIRE NUT	---	---

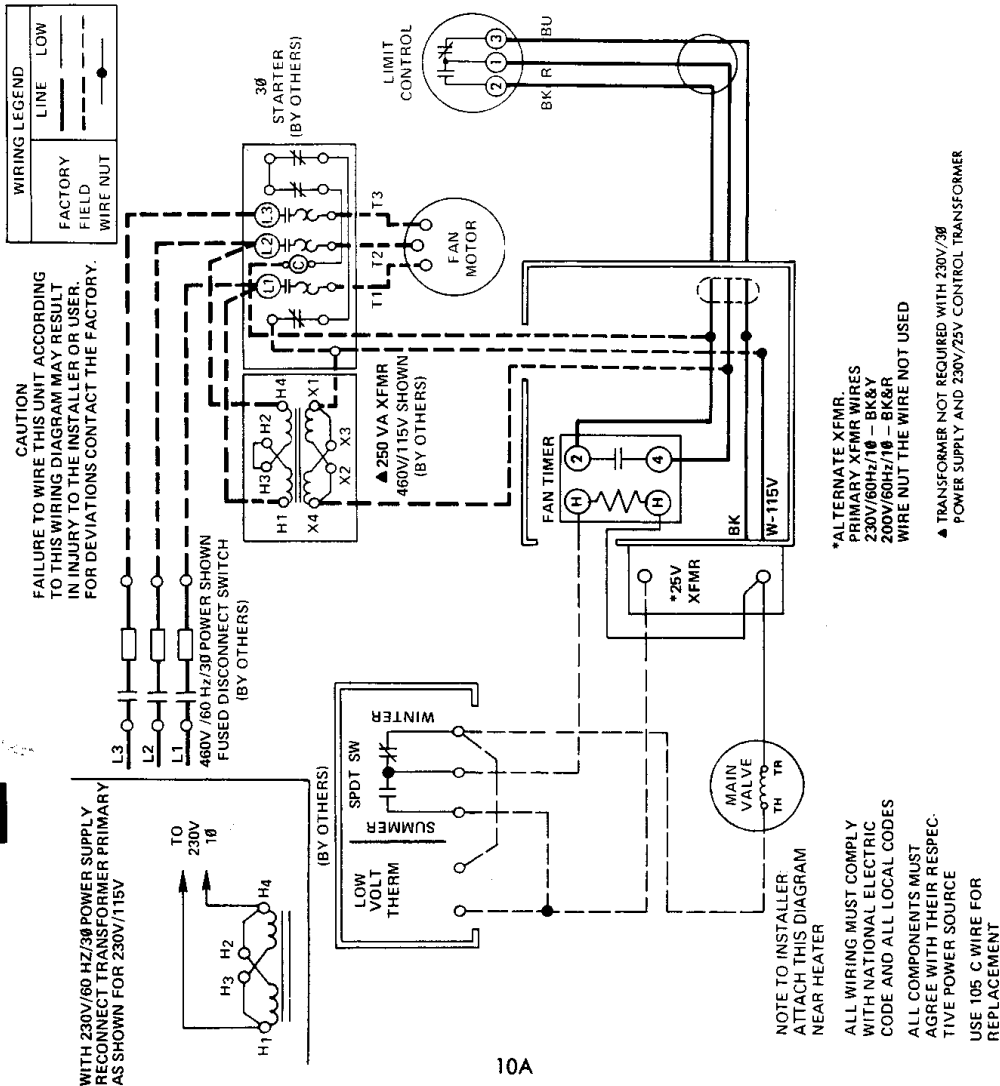


9A

8H6490B4 — Single-phase, standing pilot, 100% shut-off, fan time delay, low-voltage thermostat, summer-winter switch.



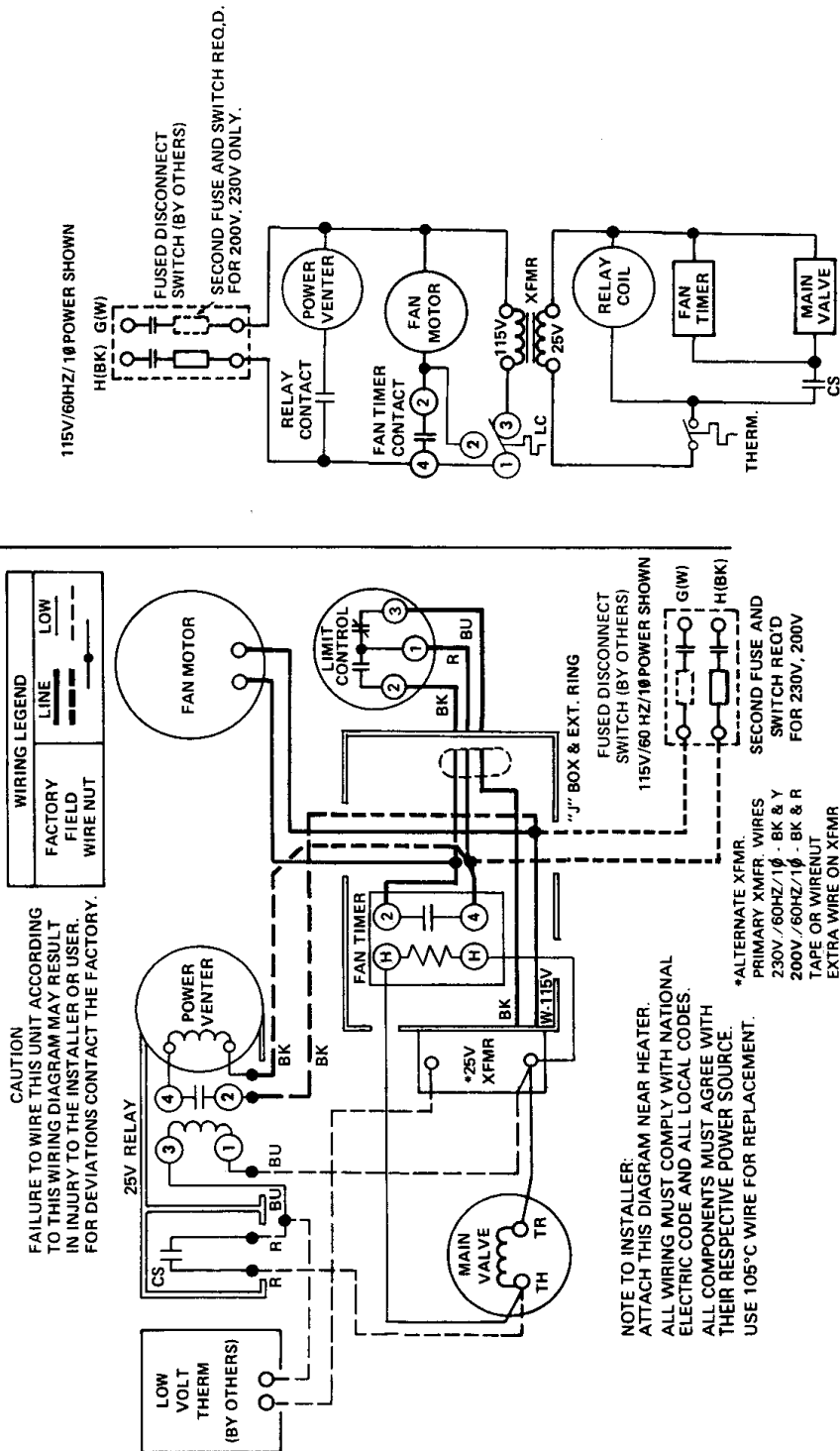
MODINE 6-430 WIRING DIAGRAM MODELS PA, BA



10A

8H649084 — Three-phase, standing pilot, 100% shut-off, fan time delay, low-voltage thermostat, summer-winter switch.

MODINE 6-430 WIRING DIAGRAM MODELS PA, BA



8H6490B15 — Single-phase, standing pilot, 100% shut-off, fan time delay, low-voltage thermostat, low-voltage controlled power venter.

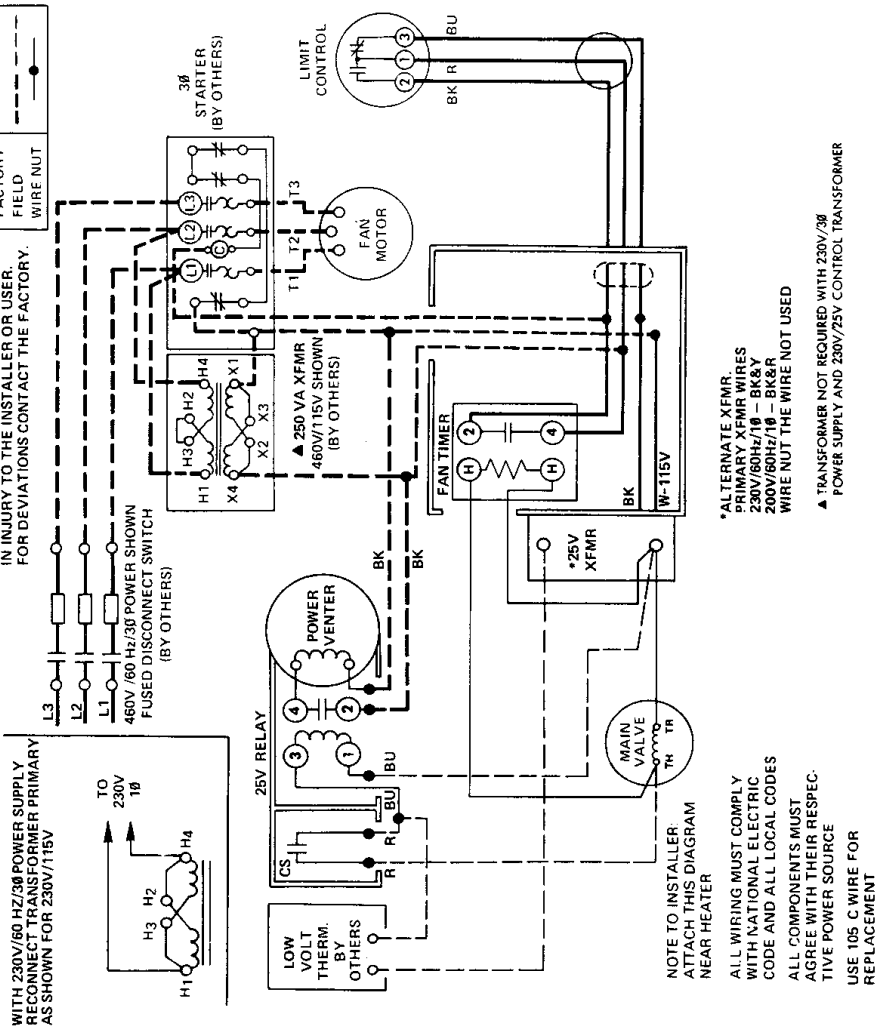


MODINE 6-430 WIRING DIAGRAM MODELS PA, BA

WIRING LEGEND	
LINE	LOW
FACTORY	FIELD
WIRE NUT	

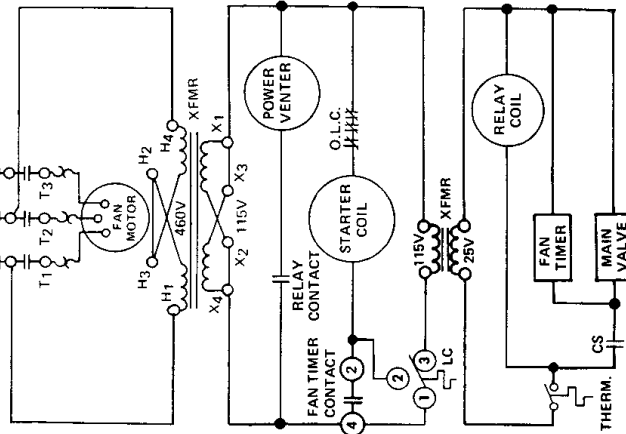
CAUTION
FAILURE TO WIRE THIS UNIT ACCORDING
TO THIS WIRING DIAGRAM MAY RESULT
IN INJURY TO THE INSTALLER OR USER.
FOR DEVIATIONS CONTACT THE FACTORY.

WITH 230V/60 HZ/3Ø POWER SUPPLY
RECONNECT TRANSFORMER PRIMARY
AS SHOWN FOR 230V/115V



460V / 60 HZ/3Ø POWER SHOWN

FUSED
DISCONNECT
SWITCH
(BY OTHERS)



8H6490B15 — Three-phase, standing pilot, 100% shut-off, fan time delay,
low-voltage thermostat, low-voltage controlled power venter.

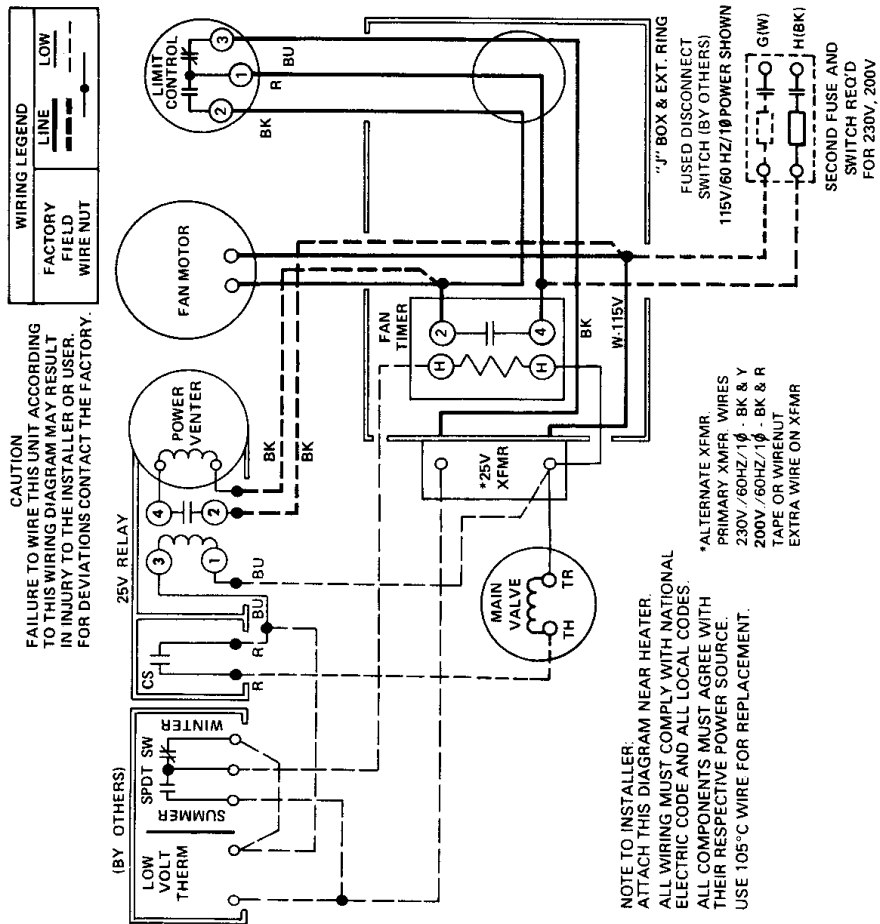
CAUTION
FAILURE TO WIRE THIS UNIT ACCORDING
TO THIS WIRING DIAGRAM MAY RESULT
IN INJURY TO THE INSTALLER OR USER.
FOR DEVIATIONS CONTACT THE FACTORY

[illegible]

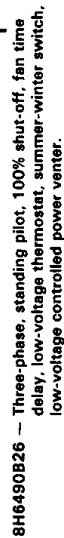
H(RK) G/W!

FUSED DISCONNECT
SWITCH (BY OTHERS)

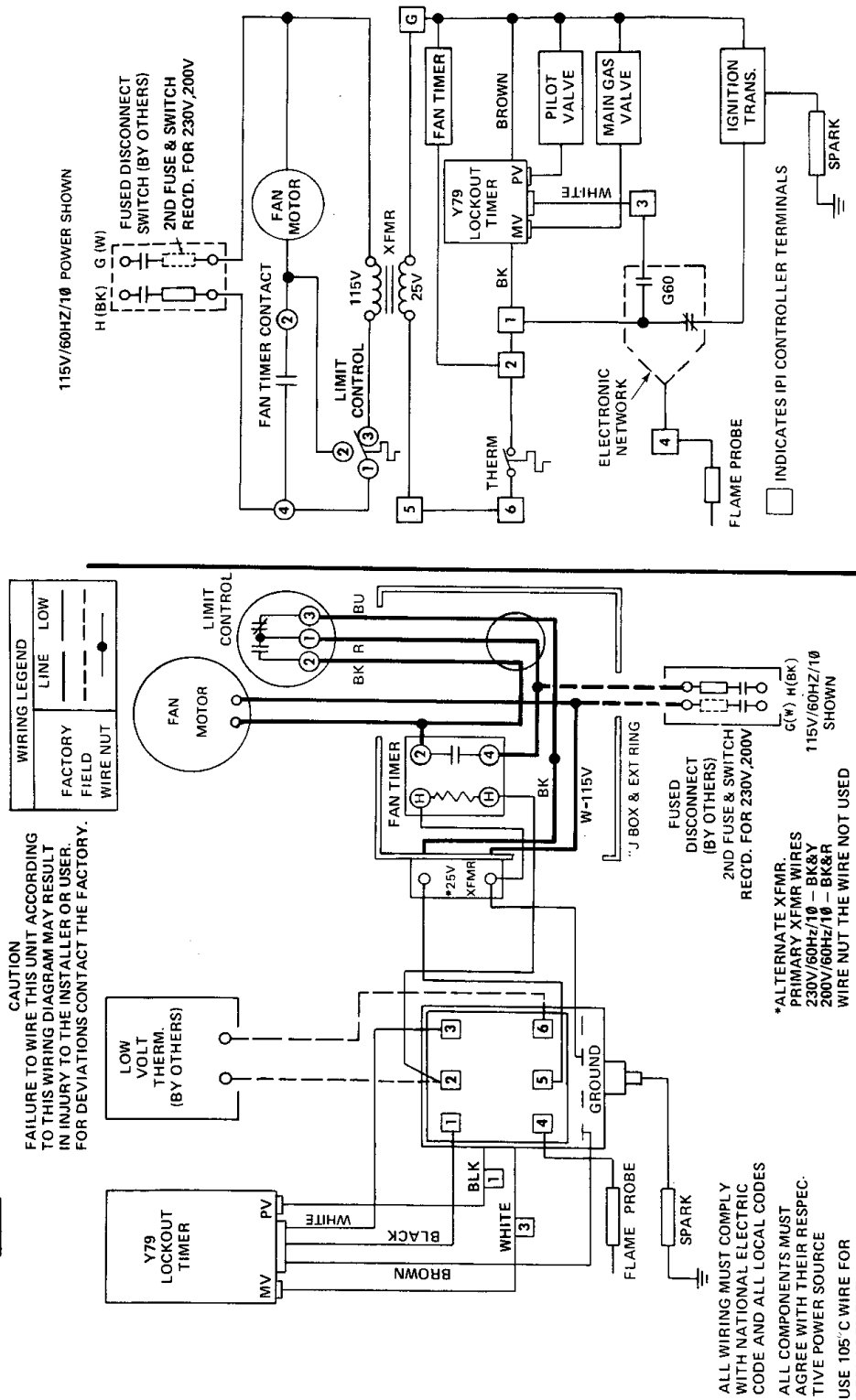
SECOND FUSE AND SWITCH REQ.D.
FOR 200V, 230V ONLY.



8H6490B26 — Single-phase, standing pilot, 100% shut-off, fan time delay, low-voltage thermostat, summer-winter switch, low-voltage controlled power vent.



MODINE 6-430 WIRING DIAGRAM MODELS PA, BA



5H70081B12 — Single-phase, Intermittent pilot ignition, 100% shut-off, fan time delay, low-voltage thermostat (Rev. C)

**NOTE TO INSTALLER:
ATTACH THIS DIAGRAM
NEAR UNIT HEATER**



USE 105 C WIRE FOR ▲ TRANSFORMER NOT REQUIRED WITH 230V/3Ø
POWER SUPPLY AND 230V/25V CONTROL TRANSFORMER
REPLACEMENT

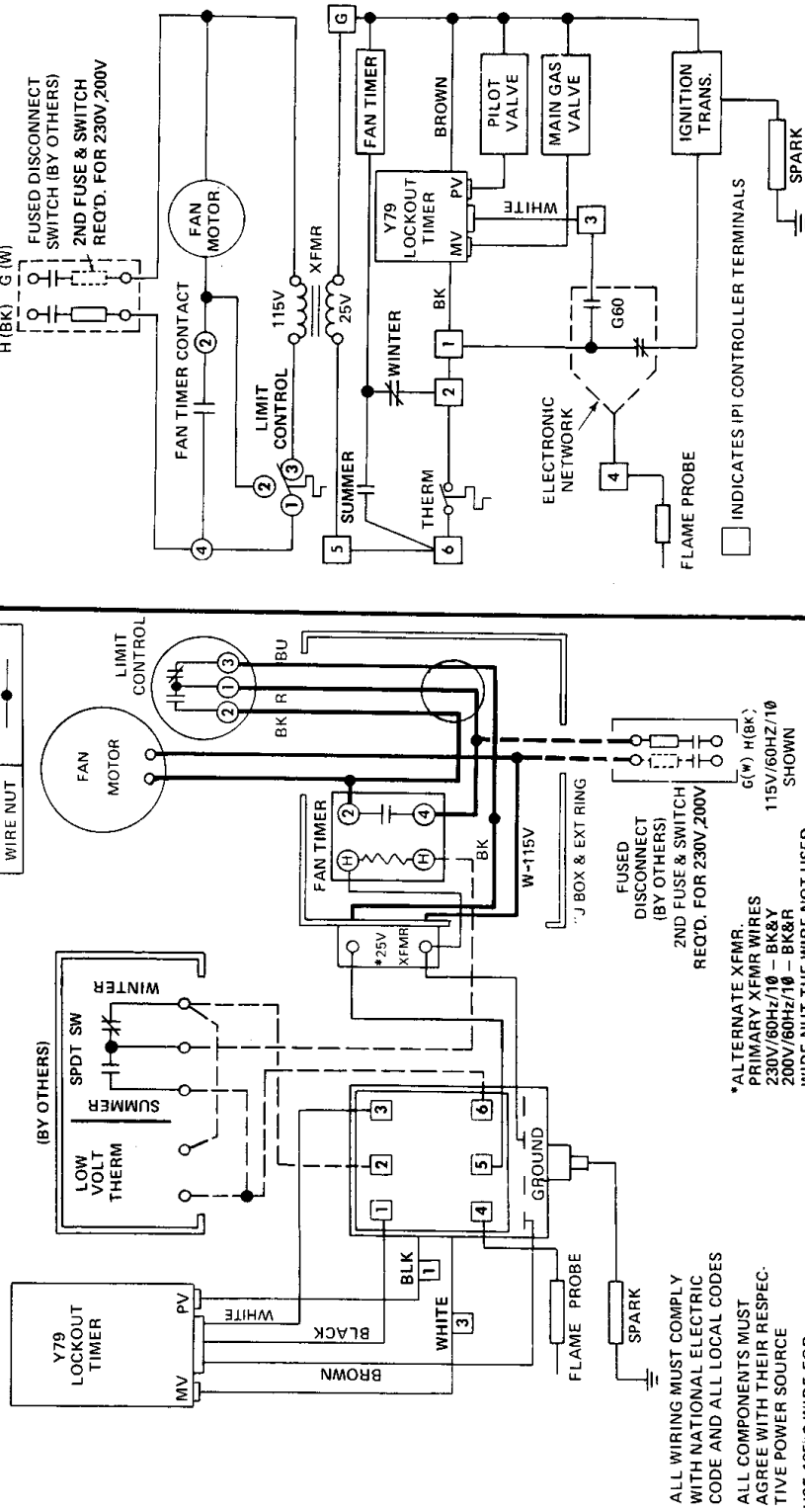
**NOTE TO INSTALLER:
ATTACH THIS DIAGRAM
NEAR HEATER**



MODINE 6-430 WIRING DIAGRAM MODELS PA, BA

CAUTION
FAILURE TO WIRE THIS UNIT ACCORDING
TO THIS WIRING DIAGRAM MAY RESULT
IN INJURY TO THE INSTALLER OR USER.
FOR DEVIATIONS CONTACT THE FACTORY.

WIRING LEGEND	
FACTORY	LOW
FIELD	---
WIRE NUT	•

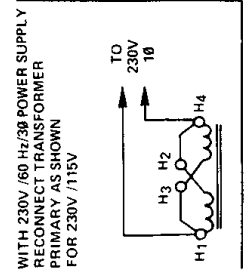


8H6490B5 — Single-phase, intermittent pilot ignition, 100% shut-off, fan time delay, low-voltage thermostat, summer-winter switch.

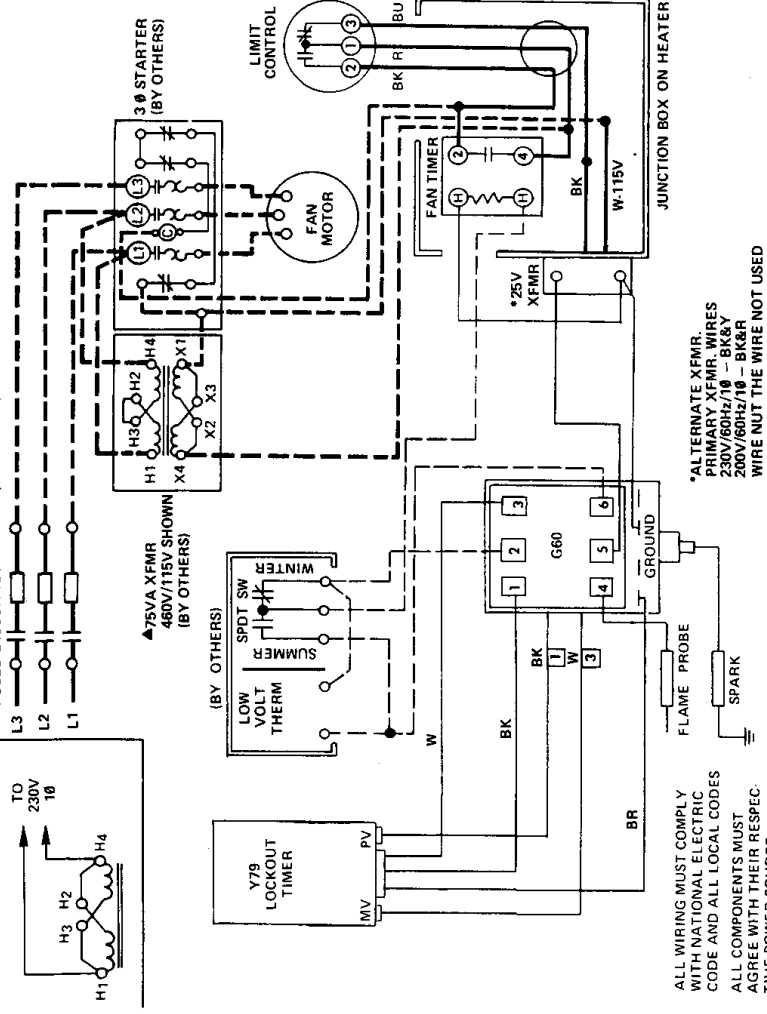


MODINE 6-430 WIRING DIAGRAM MODELS PA, BA

WIRING LEGEND			
CAUTION	FAILURE TO WIRE THIS UNIT ACCORDING TO THIS WIRING DIAGRAM MAY RESULT IN INJURY TO THE INSTALLER OR USER. FOR DEVIATIONS CONTACT THE FACTORY.	LINE	LOW
FACTORY		---	---
FIELD		---	---
WIRE NUT		---	---



460V /60 Hz/3Ø POWER SHOWN
FUSED DISCONNECT SWITCH (BY OTHERS)



ALL WIRING MUST COMPLY WITH NATIONAL ELECTRIC CODE AND ALL LOCAL CODES
ALL COMPONENTS MUST AGREE WITH THEIR RESPECTIVE POWER SOURCE
USE 105 C WIRE FOR REPLACEMENT
TRANSFORMER NOT REQUIRED WITH 230V/3Ø POWER SUPPLY AND 230V/25V CONTROL TRANSFORMER

NOTE TO INSTALLER:
ATTACH THIS DIAGRAM NEAR HEATER

8H6490B5 — Three-phase, intermittent pilot ignition, 100% shut-off, fan time delay, low-voltage thermostat, summer-winter switch.

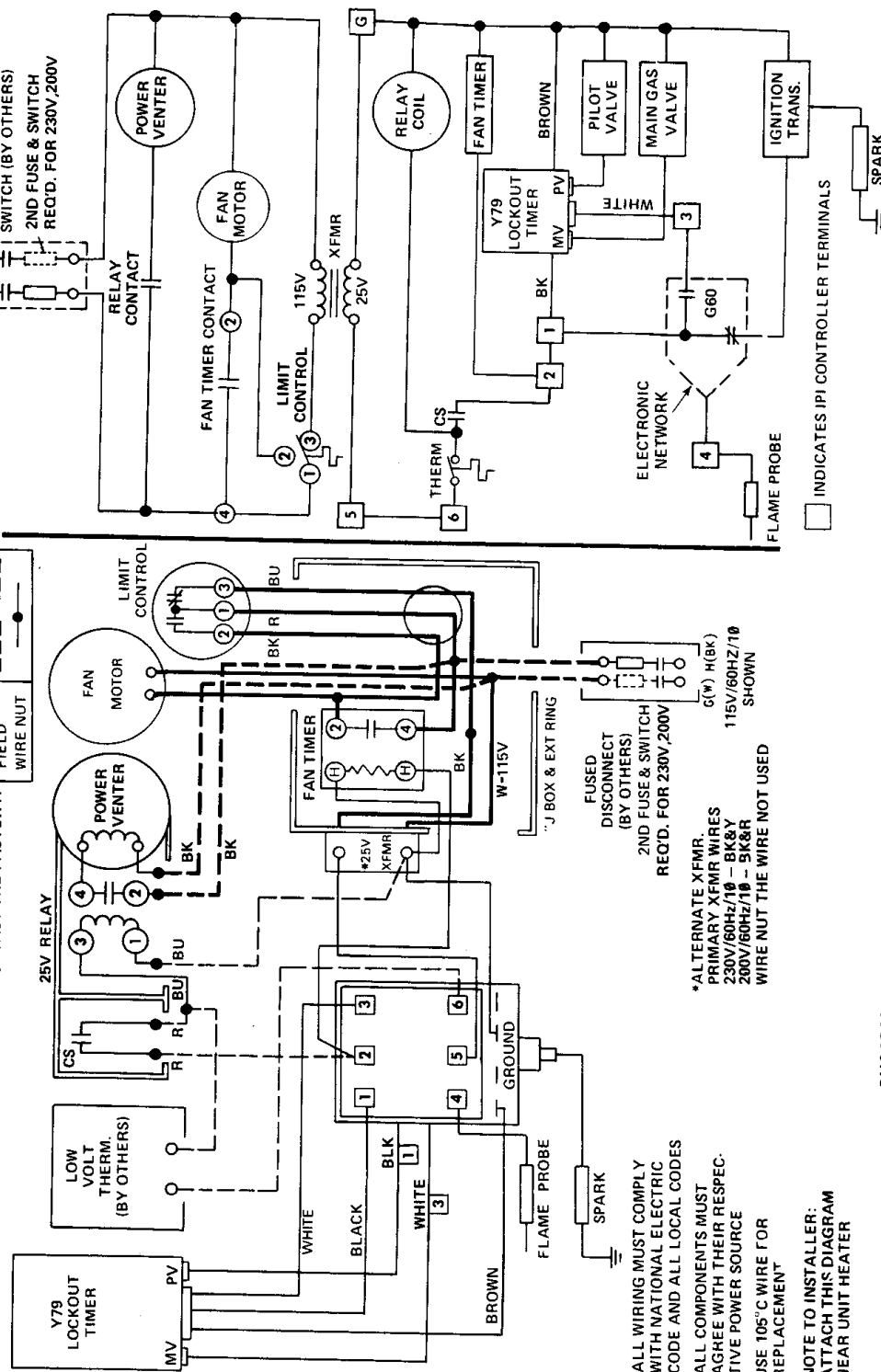


MODINE 6-430 WIRING DIAGRAM MODELS PA, BA

CAUTION
FAILURE TO WIRE THIS UNIT ACCORDING
TO THIS WIRING DIAGRAM MAY RESULT
IN INJURY TO THE INSTALLER OR USER.
FOR DEVIATIONS CONTACT THE FACTORY.

WIRING LEGEND	
FACTORY	LINE
FIELD	LOW
WIRE NUT	---

115V/60HZ/1Ø POWER SHOWN

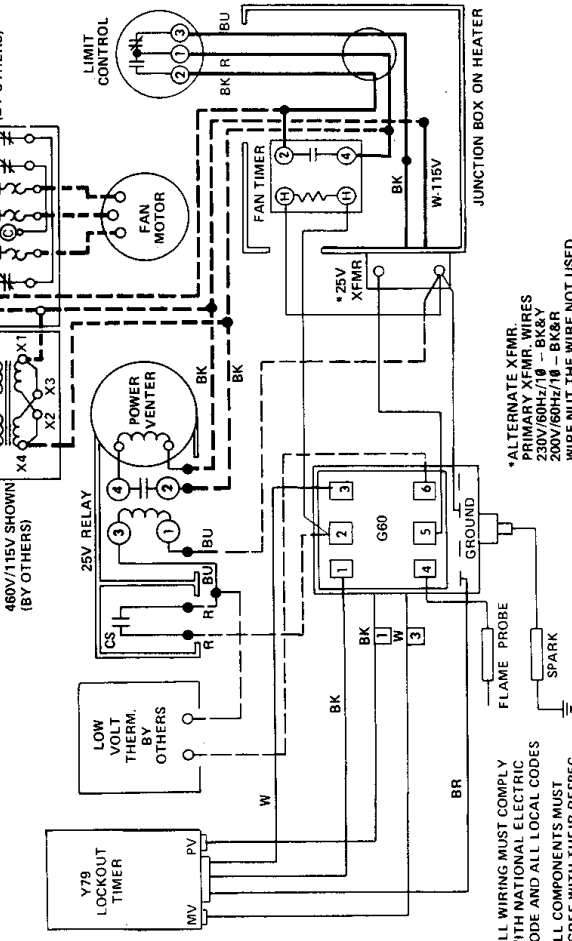
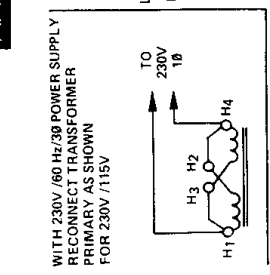
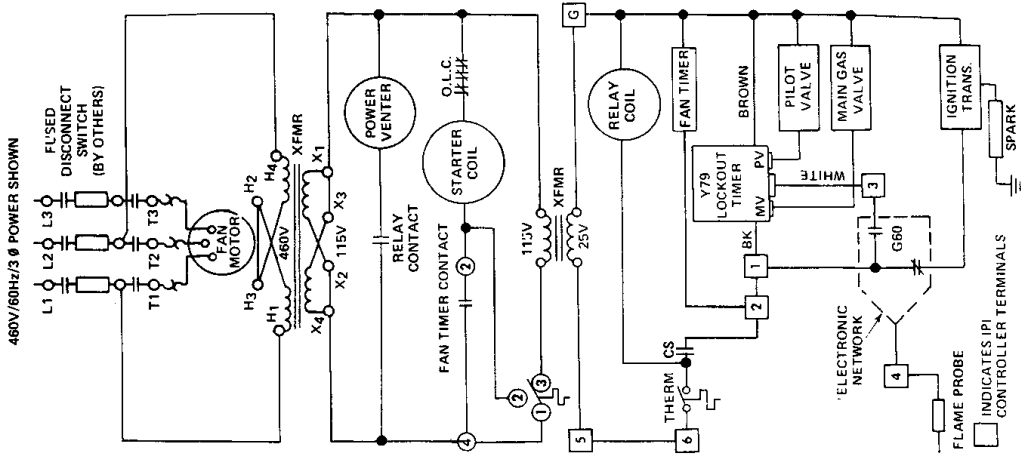




MODINE 6-430 WIRING DIAGRAM MODELS PA, BA

WIRING LEGEND	
LINE	LOW
FACTORY	FIELD
WIRE NUT	

CAUTION
FAILURE TO WIRE THIS UNIT ACCORDING
TO THIS WIRING DIAGRAM MAY RESULT
IN INJURY TO THE INSTALLER OR USER.
FOR DEVIATIONS CONTACT THE FACTORY.



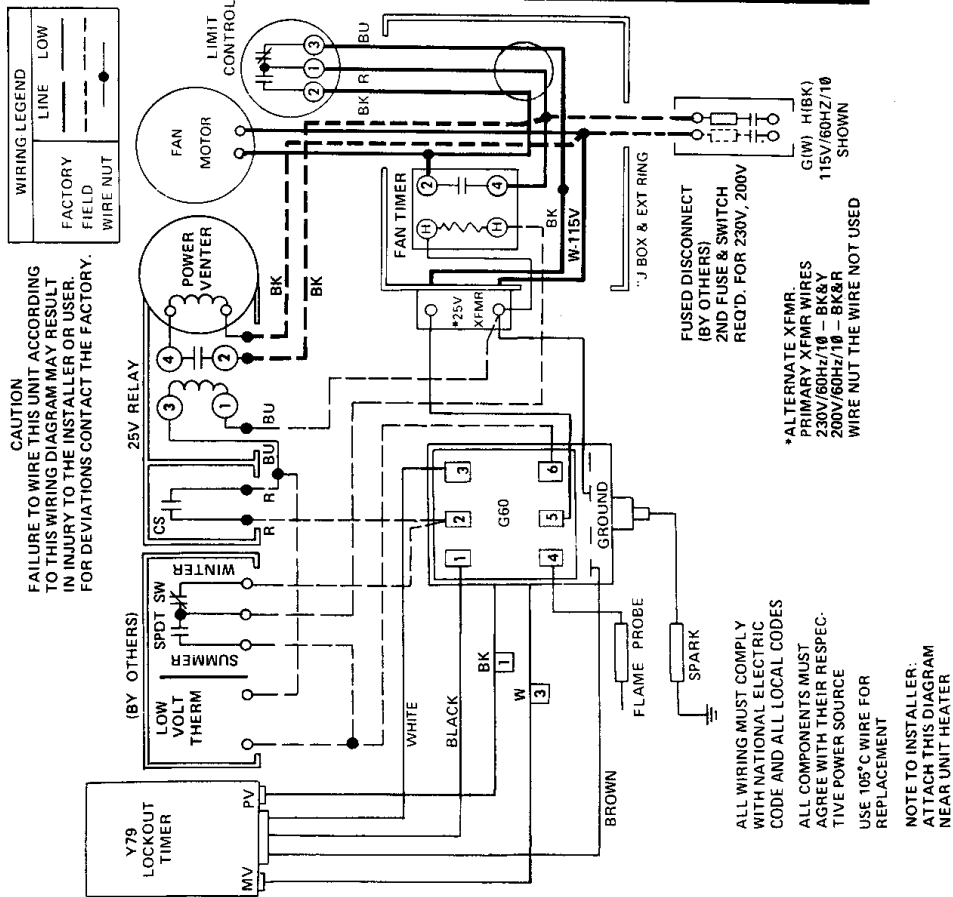
ALL WIRING MUST COMPLY
WITH NATIONAL ELECTRIC
CODE AND ALL LOCAL CODES
ALL COMPONENTS MUST
AGREE WITH THEIR RESPEC-
TIVE POWER SOURCE
USE 105°C WIRE FOR
REPLACEMENT

NOTE TO INSTALLER
ATTACH THIS DIAGRAM
NEAR HEATER

8H6490B16 — Three-phase, intermittent pilot ignition, 100% Shut-off, fan time
delay, low-voltage thermostat, low-voltage controlled power vent.



MODINE 6-430 WIRING DIAGRAM MODELS PA/BA

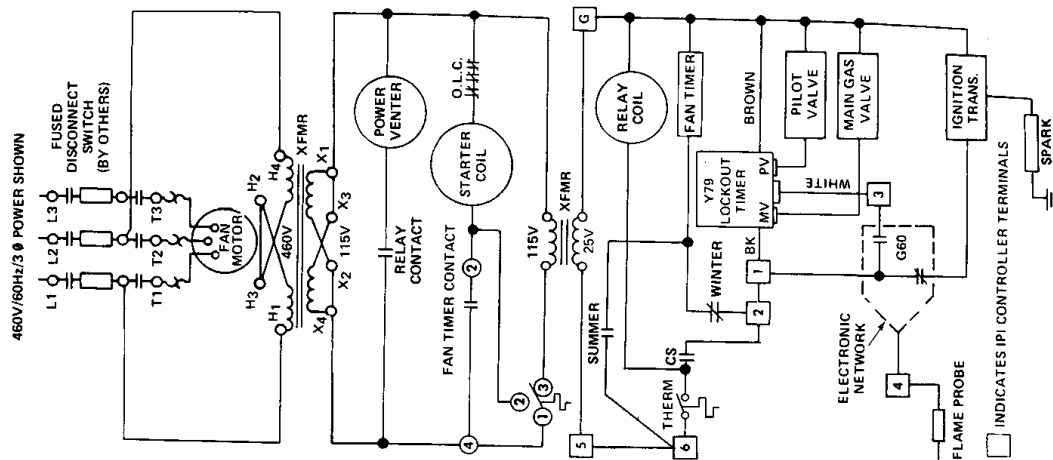
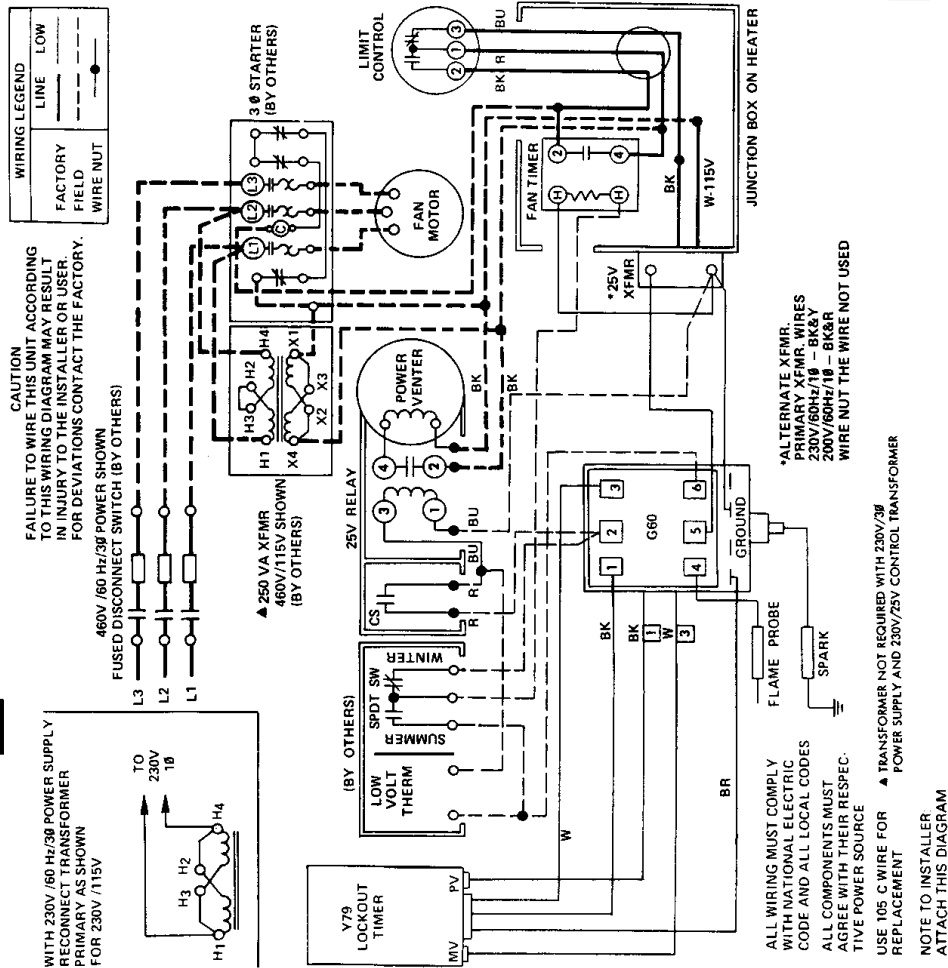


8H6490827 — Single-phase, intermittent pilot ignition, 100% Shut-off, fan time delay, low-voltage thermostat, summer-winter switch, low-voltage controlled power venter.

ALL WIRING MUST COMPLY WITH NATIONAL ELECTRIC CODE AND ALL LOCAL CODES
ALL COMPONENTS MUST AGREE WITH THEIR RESPECTIVE POWER SOURCE
USE 105°C WIRE FOR REPLACEMENT
NOTE TO INSTALLER: ATTACH THIS DIAGRAM NEAR UNIT HEATER



MODINE 6-430 WIRING DIAGRAM MODELS PA, BA

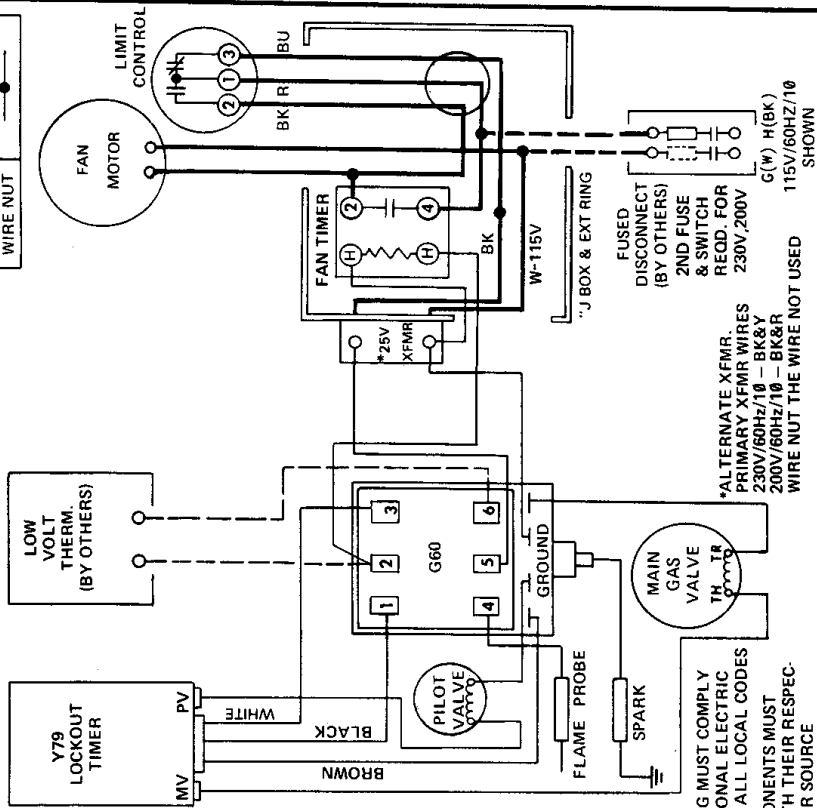




MODINE 6-430 WIRING DIAGRAM MODELS PA, BA

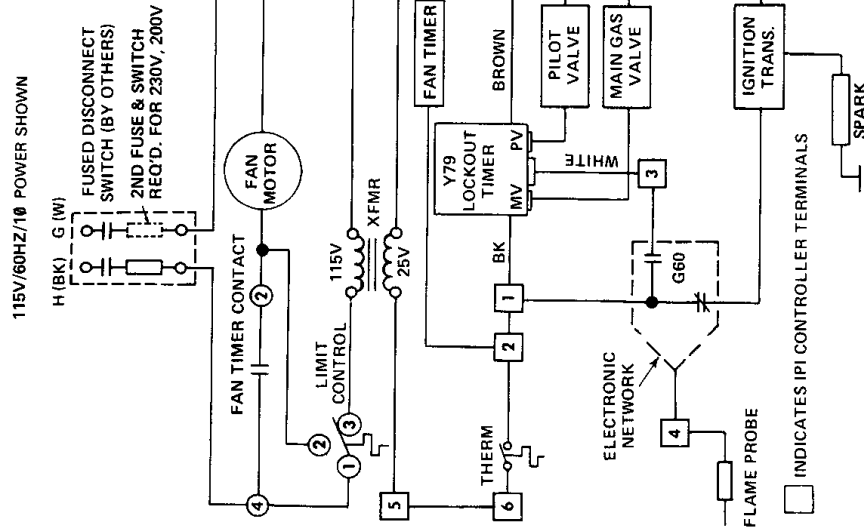
CAUTION
FAILURE TO WIRE THIS UNIT ACCORDING
TO THIS WIRING DIAGRAM MAY RESULT
IN INJURY TO THE INSTALLER OR USER.
FOR DEVIATIONS CONTACT THE FACTORY.

WIRING LEGEND	
FACTORY	LINE
FIELD	LOW
WIRE NUT	



ALL WIRING MUST COMPLY
WITH NATIONAL ELECTRIC
CODE AND ALL LOCAL CODES
ALL COMPONENTS MUST
AGREE WITH THEIR RESPEC-
TIVE POWER SOURCE
USE 105°C WIRE FOR
REPLACEMENT

NOTE TO INSTALLER:
ATTACH THIS DIAGRAM
NEAR UNIT HEATER



5H70081B9 — Single-phase, intermittent pilot Ignition, 100% shut-off,
fan time delay, low-voltage thermostat. (Rev. D)

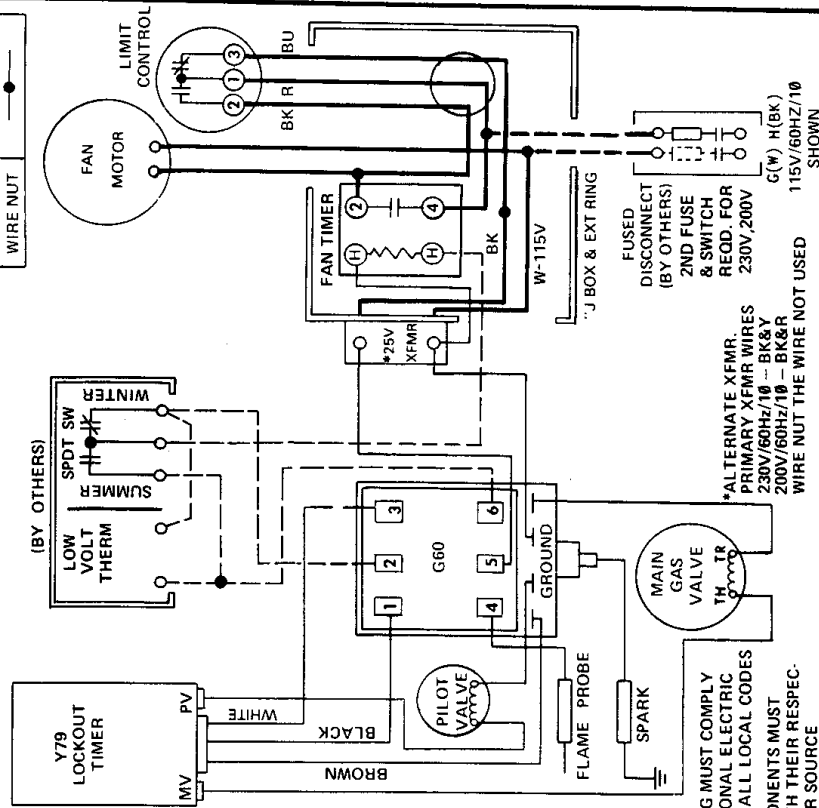


MODINE 6-430 WIRING DIAGRAM MODELS PA, BA

CAUTION

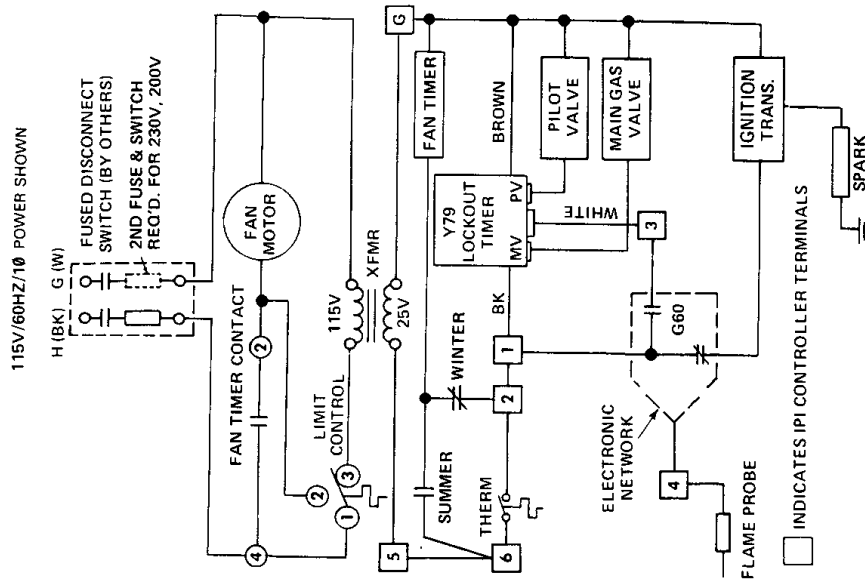
FAILURE TO WIRE THIS UNIT ACCORDING TO THIS WIRING DIAGRAM MAY RESULT IN INJURY TO THE INSTALLER OR USER. FOR DEVIATIONS CONTACT THE FACTORY.

WIRING LEGEND	
FACTORY	LOW
FIELD	---
WIRE NUT	•



ALL WIRING MUST COMPLY WITH NATIONAL ELECTRIC CODE AND ALL LOCAL CODES. ALL COMPONENTS MUST AGREE WITH THEIR RESPECTIVE POWER SOURCE. USE 105°C WIRE FOR REPLACEMENT.

NOTE TO INSTALLER: ATTACH THIS DIAGRAM NEAR UNIT HEATER



8H6490B6 — Single-phase, intermittent pilot ignition, 100% shut-off, fan time delay, low-voltage thermostat, summer-winter switch.

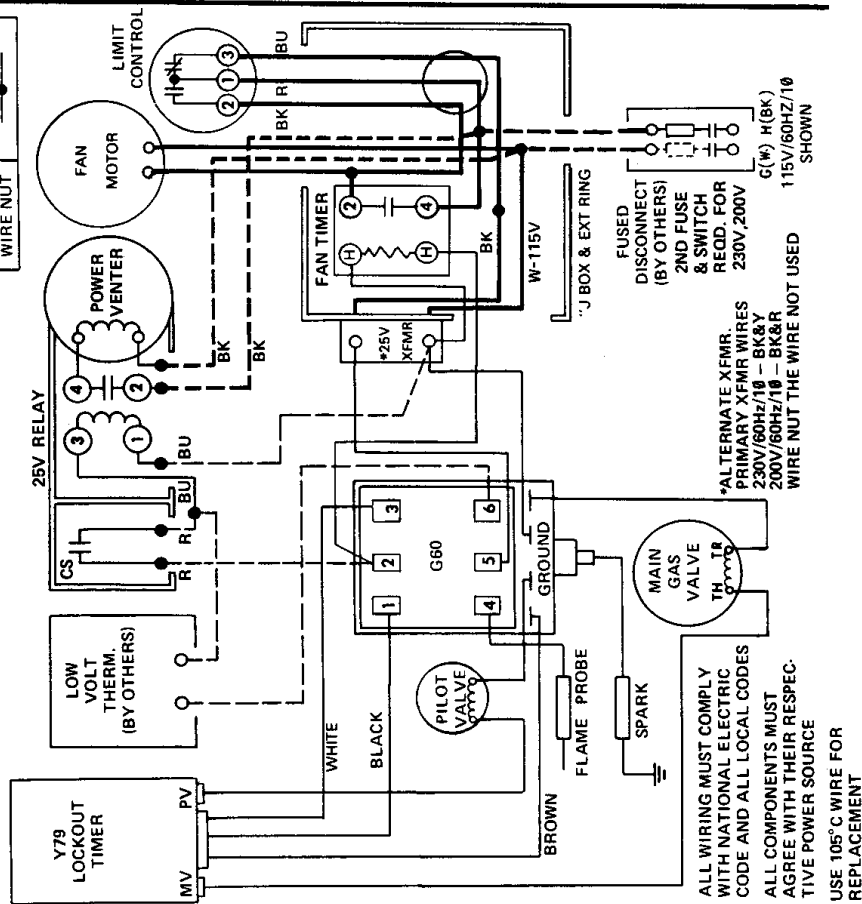




MODINE 6-430 WIRING DIAGRAM MODELS PA, BA

CAUTION
FAILURE TO WIRE THIS UNIT ACCORDING
TO THIS WIRING DIAGRAM MAY RESULT
IN INJURY TO THE INSTALLER OR USER.
FOR DEVIATIONS CONTACT THE FACTORY.

WIRING LEGEND	
FACTORY	LINE
FIELD	LOW
WIRE NUT	---

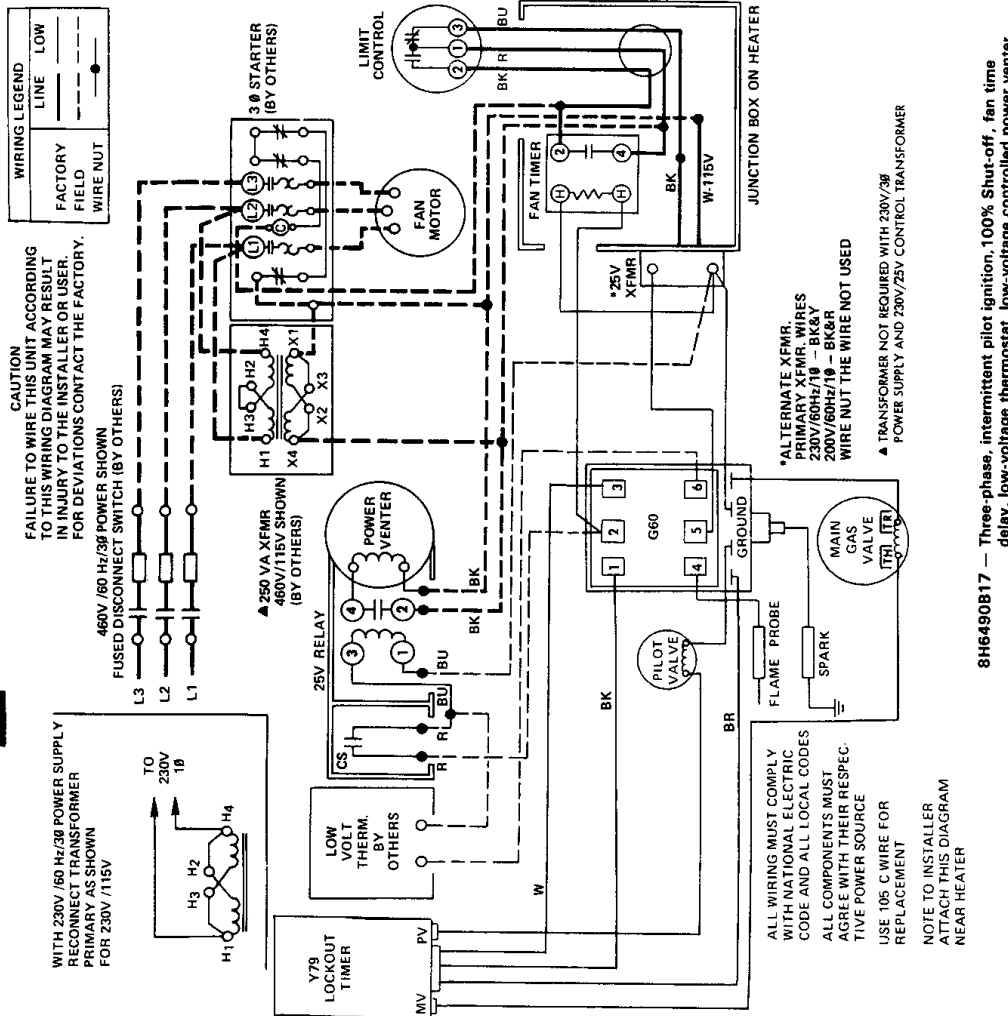


115V/60HZ/1Ø POWER SHOWN

H (BK) G (W)
FUSED DISCONNECT
SWITCH (BY OTHERS)
2ND FUSE & SWITCH
REQ'D. FOR 230V, 200V

□ INDICATES IPI CONTROLLER TERMINALS

8H6490817 - Single-phase, intermittent pilot ignition, 100% Shut-off, fan time delay, low-voltage thermostat, low-voltage controlled power venter.



8H6490B17 — Three-phase, intermittent pilot ignition, 100% Shut-off, fan time delay, low-voltage thermostat, low-voltage controlled power vent.

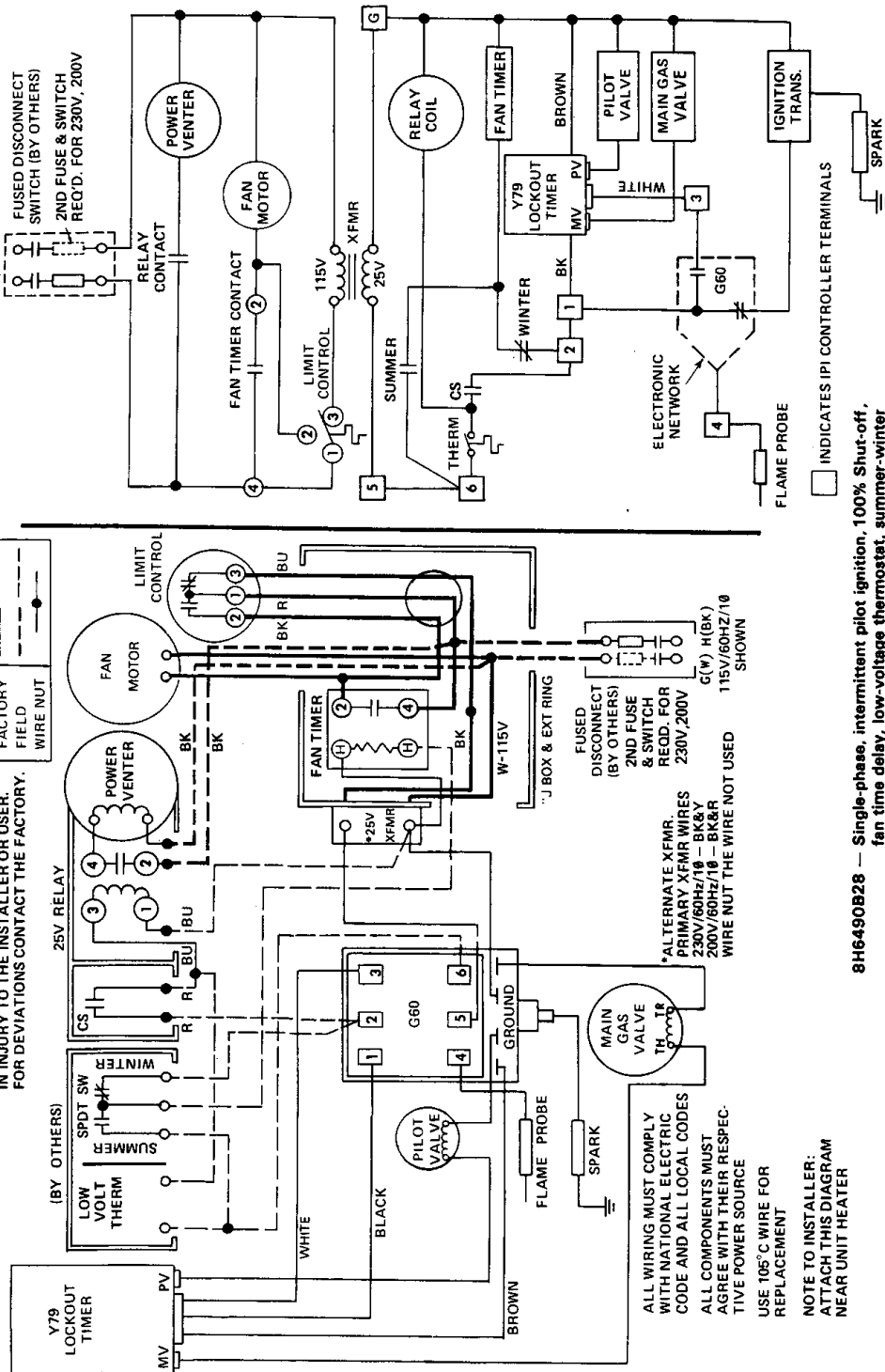


MODINE 6-430 WIRING DIAGRAM MODELS PA, BA

CAUTION

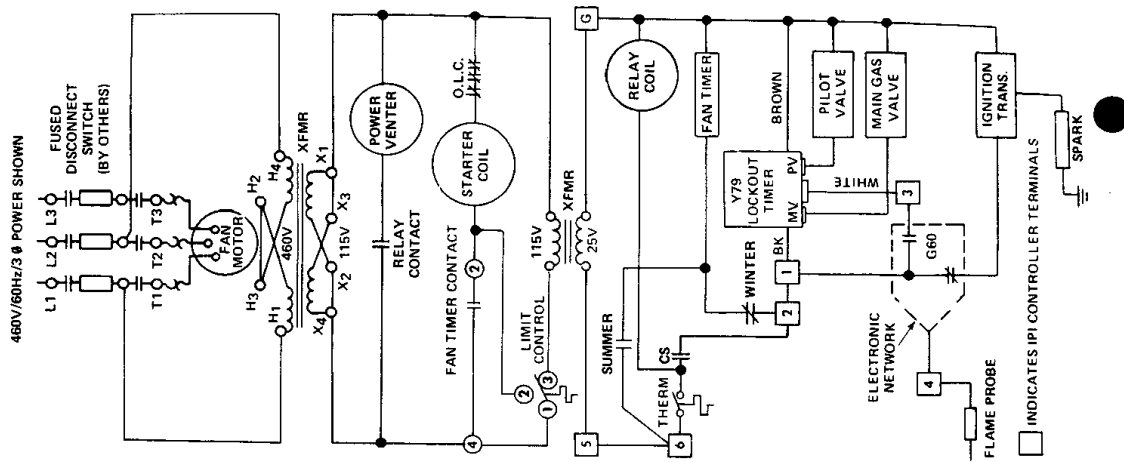
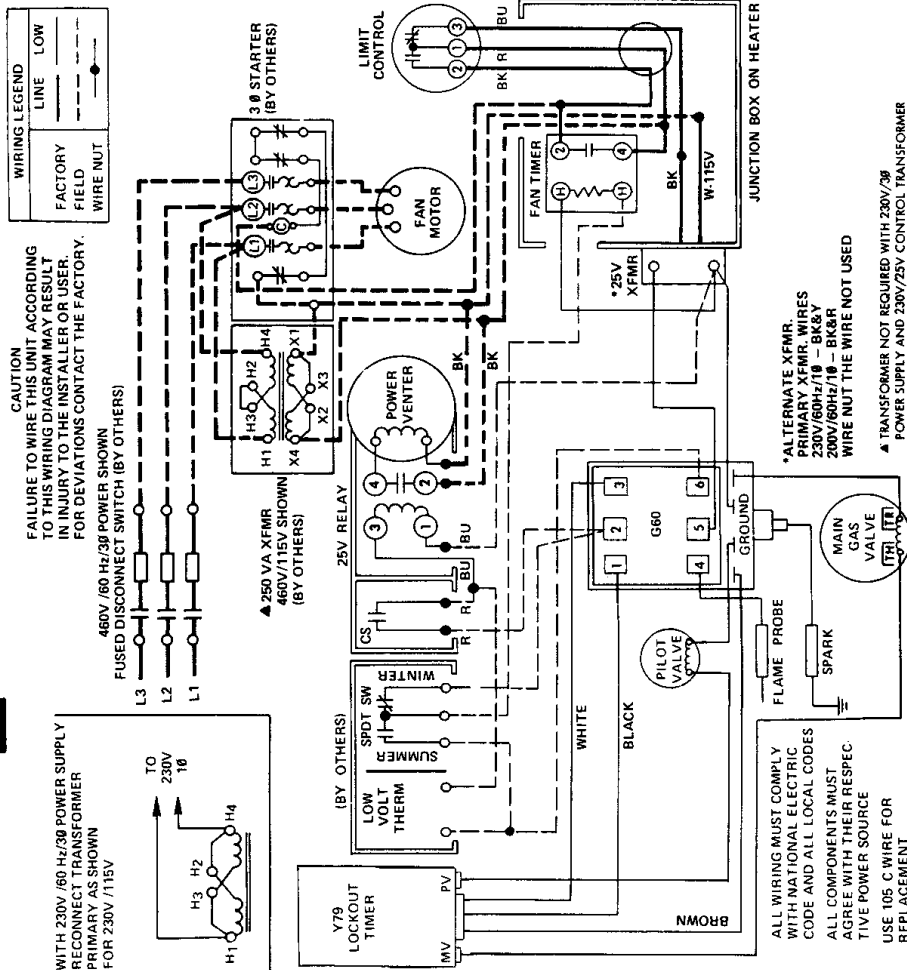
FAILURE TO WIRE THIS UNIT ACCORDING TO THIS WIRING DIAGRAM MAY RESULT IN INJURY TO THE INSTALLER OR USER. FOR DEVIATIONS CONTACT THE FACTORY.

WIRING LEGEND	
FACTORY	LINE
FIELD	LOW
WIRE NUT	





MODINE 6-430 WIRING DIAGRAM MODELS PA, BA



8H6490B28 — Three-phase, intermittent pilot ignition, 100% Shut-off, fan time delay, low-voltage thermostat, summer-winter switch, low-voltage controlled power venter.

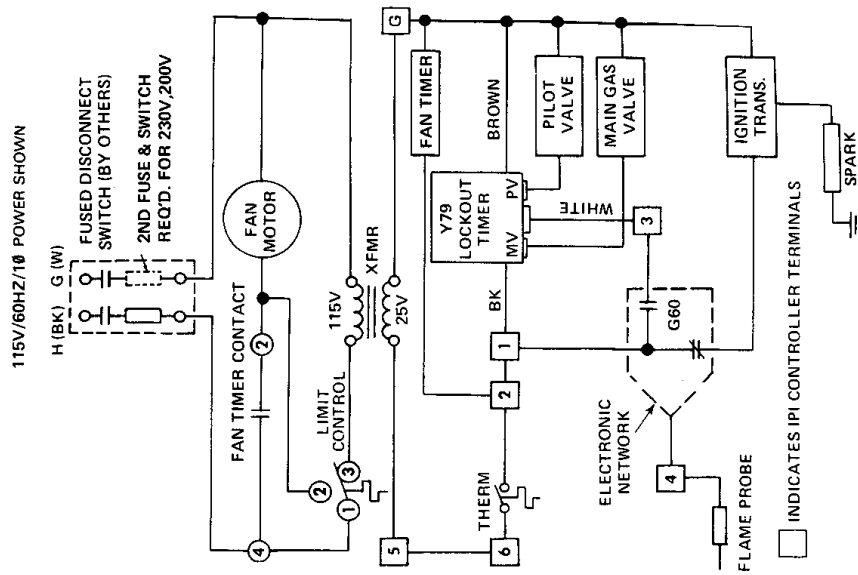
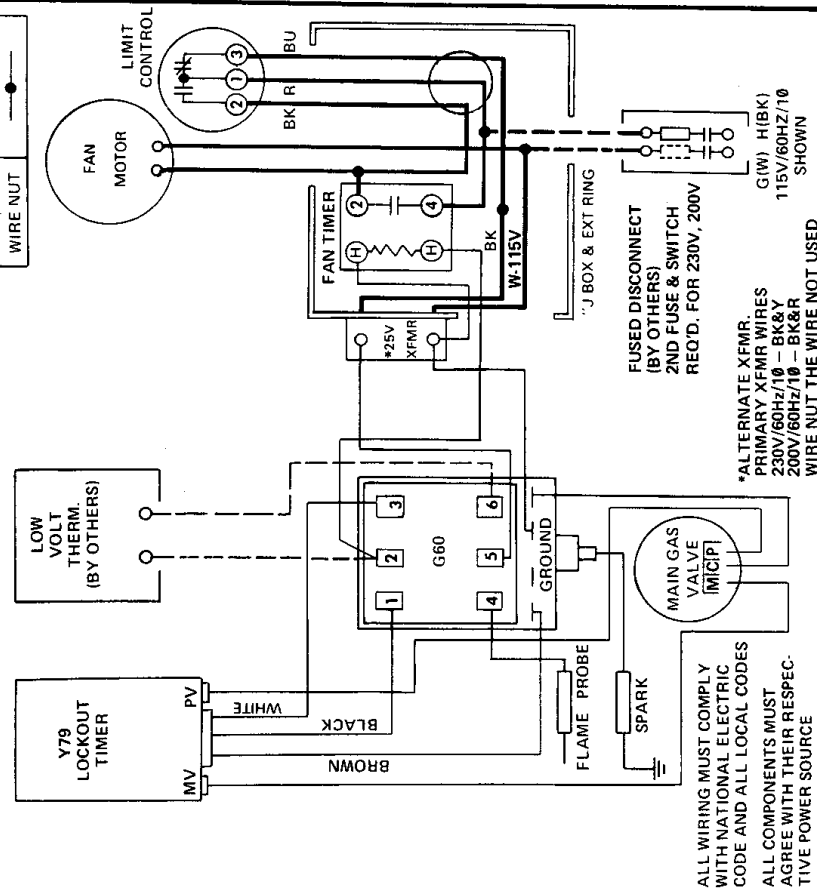


MODINE 6-430 WIRING DIAGRAM MODELS PA/BA

CAUTION

FAILURE TO WIRE THIS UNIT ACCORDING TO THIS WIRING DIAGRAM MAY RESULT IN INJURY TO THE INSTALLER OR USER. FOR DEVIATIONS CONTACT THE FACTORY.

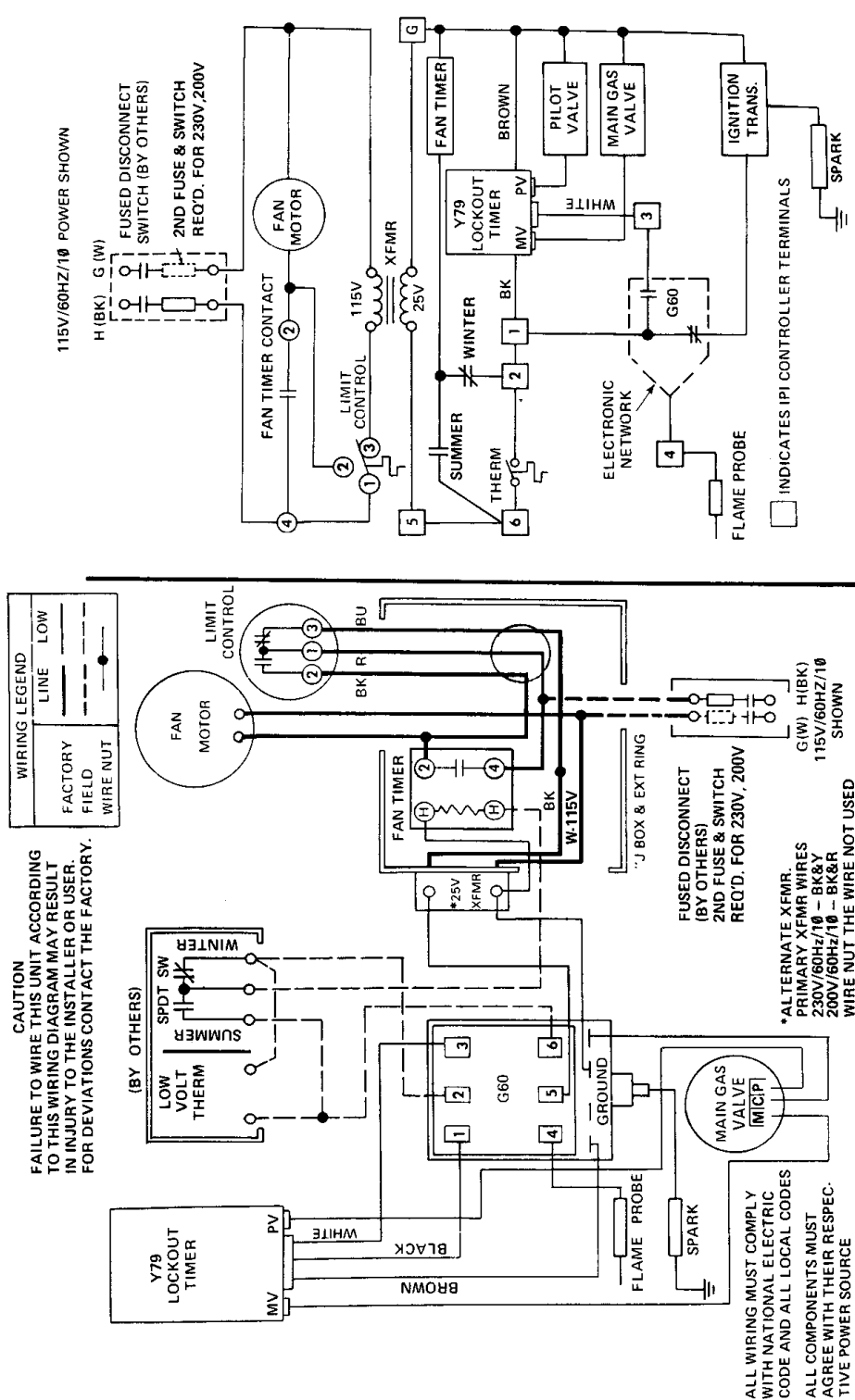
WIRING LEGEND	
FACTORY	LINE
FIELD	LOW
WIRE NUT	



5H70081B14 — Single-phase, intermittent pilot ignition, 100% shut-off, fan time delay, low-voltage thermostat. (Rev. C)



MODINE 6-430 WIRING DIAGRAM MODELS PA/BA



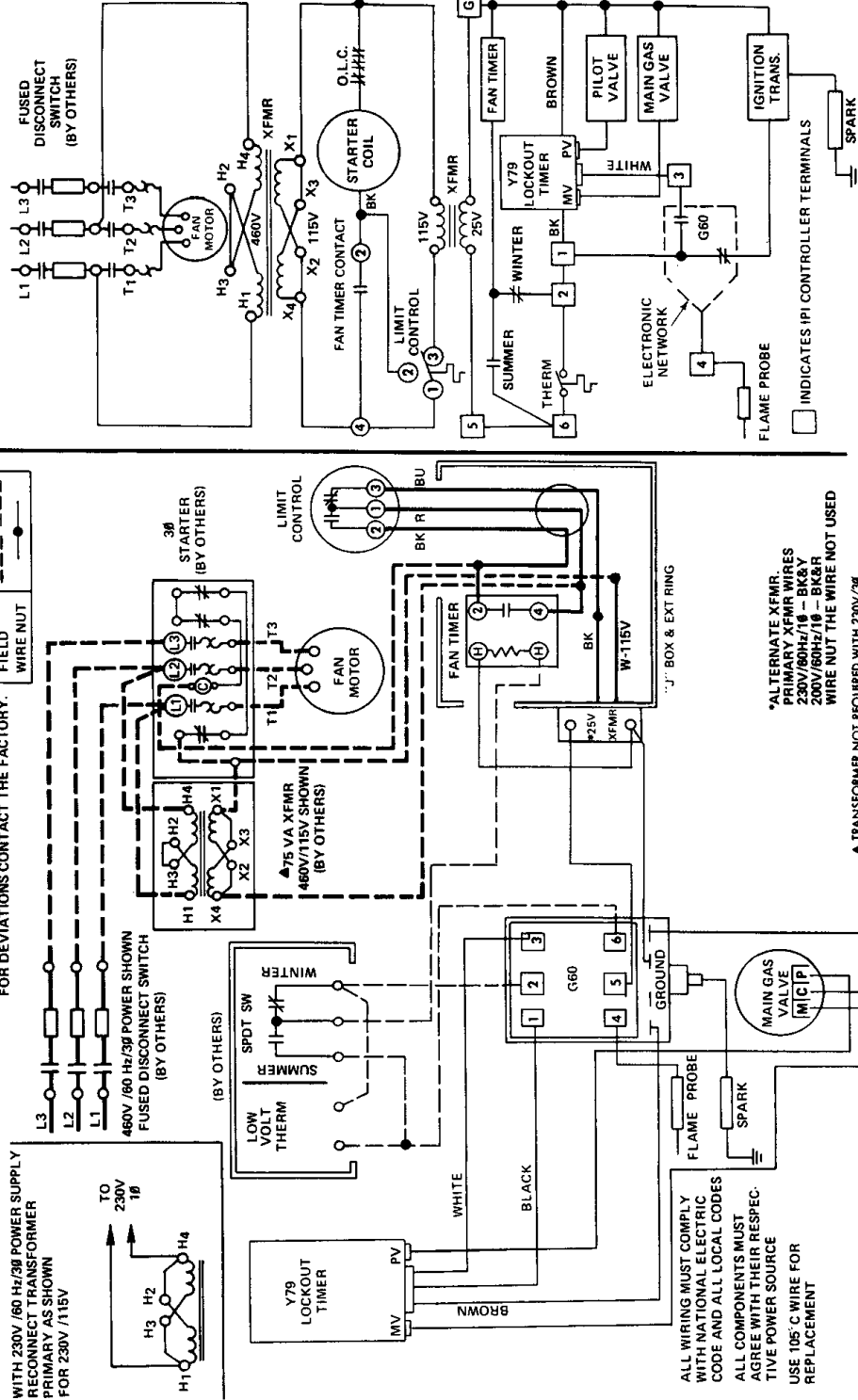
8H6490B7 — Single-phase, intermittent pilot ignition, 100% shut-off, fan time delay, low-voltage thermostat, summer-winter switch.



MODINE 6-430 WIRING DIAGRAM MODELS PA, BA

WIRING LEGEND	
LINE	LOW
FACTORY	FIELD
WIRE NUT	WIRE NUT

CAUTION
FAILURE TO WIRE THIS UNIT ACCORDING
TO THIS WIRING DIAGRAM MAY RESULT
IN INJURY TO THE INSTALLER OR USER.
FOR DEVIATIONS CONTACT THE FACTORY.

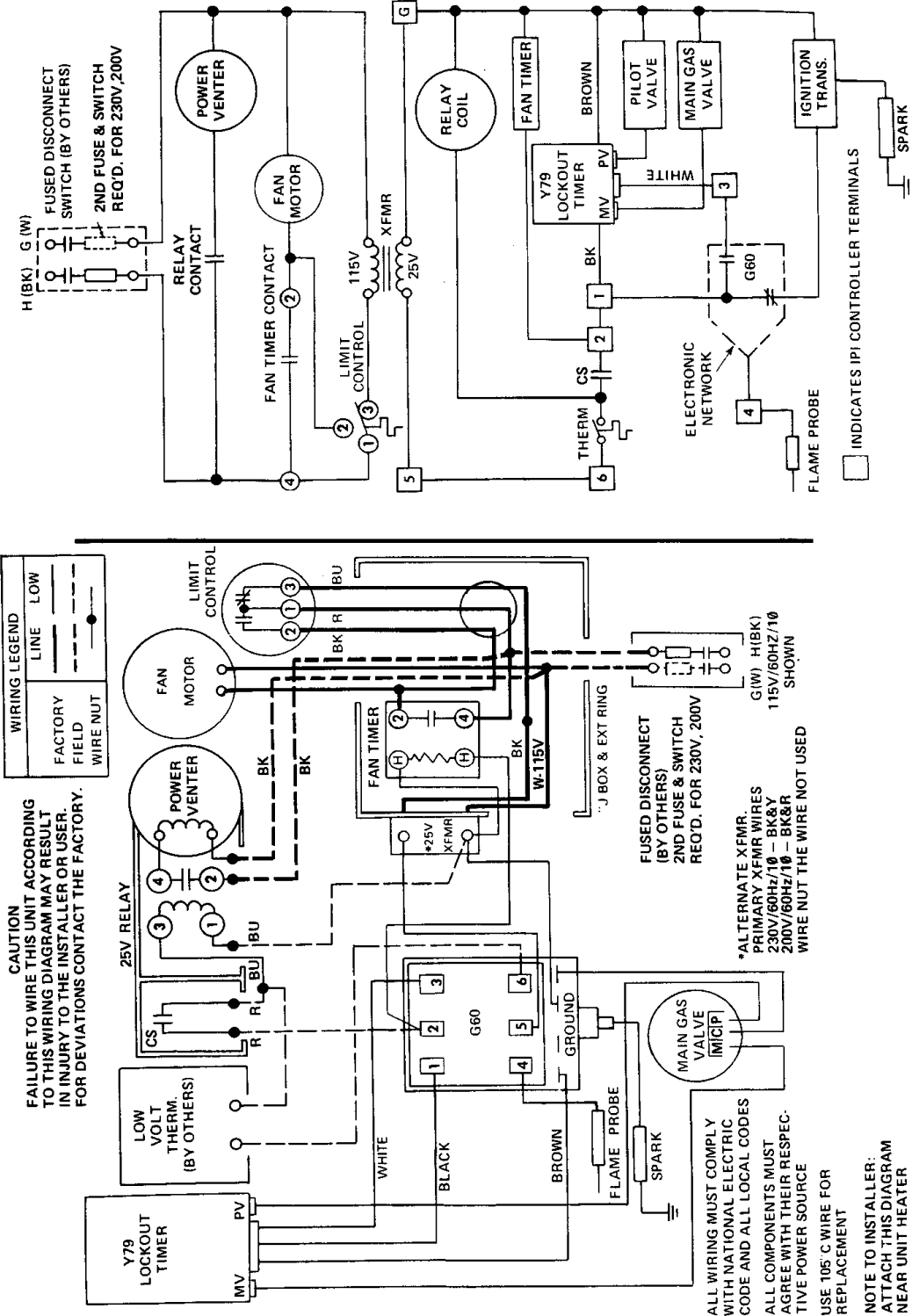


NOTE TO INSTALLER:
ATTACH THIS DIAGRAM NEAR UNIT HEATER

8H6490B7 — Three-phase, intermittent pilot ignition, 100% shut-off,
fan time delay, low-voltage thermostat, summer-winter switch.

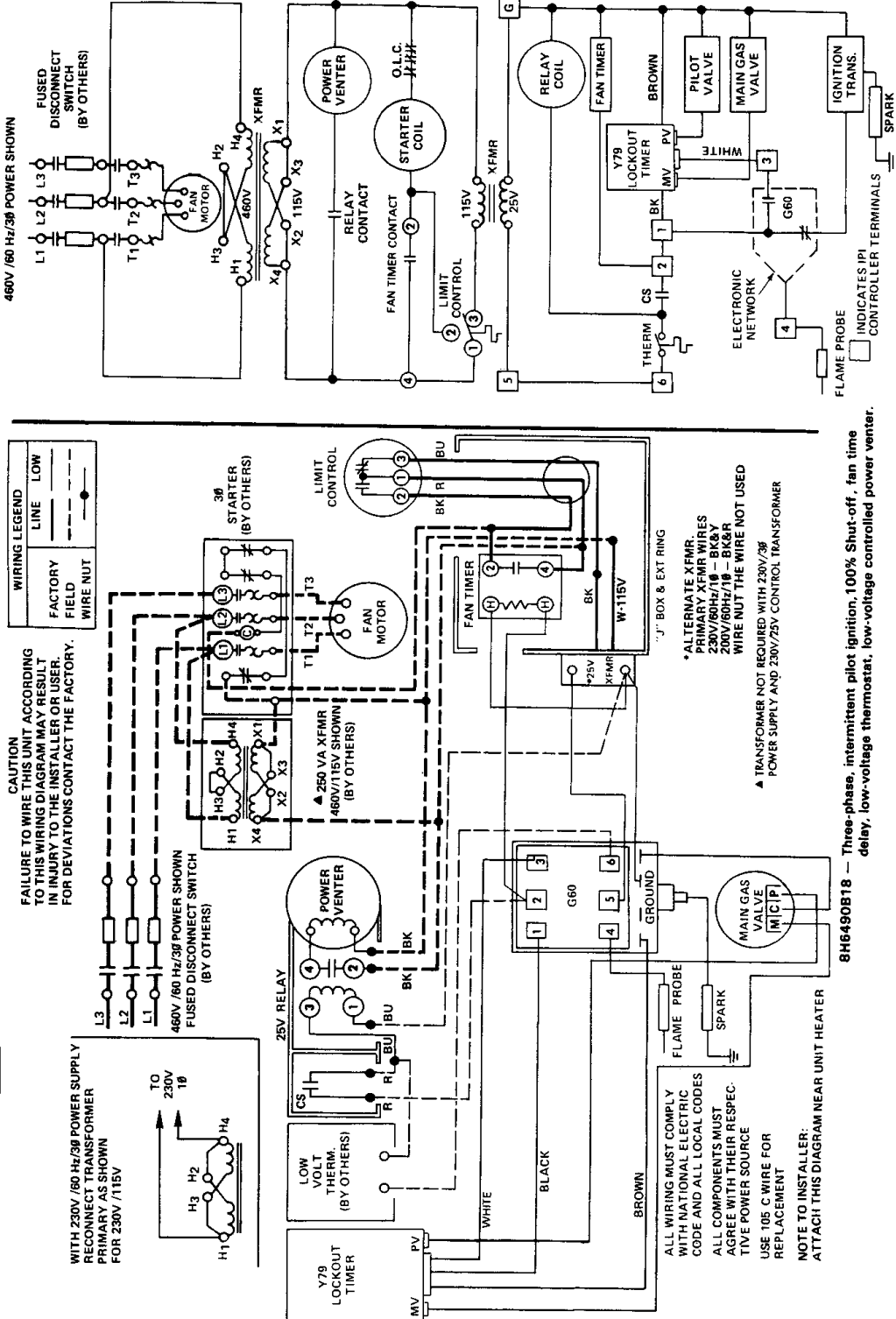


MODINE 6-430 WIRING DIAGRAM MODELS PA/BA

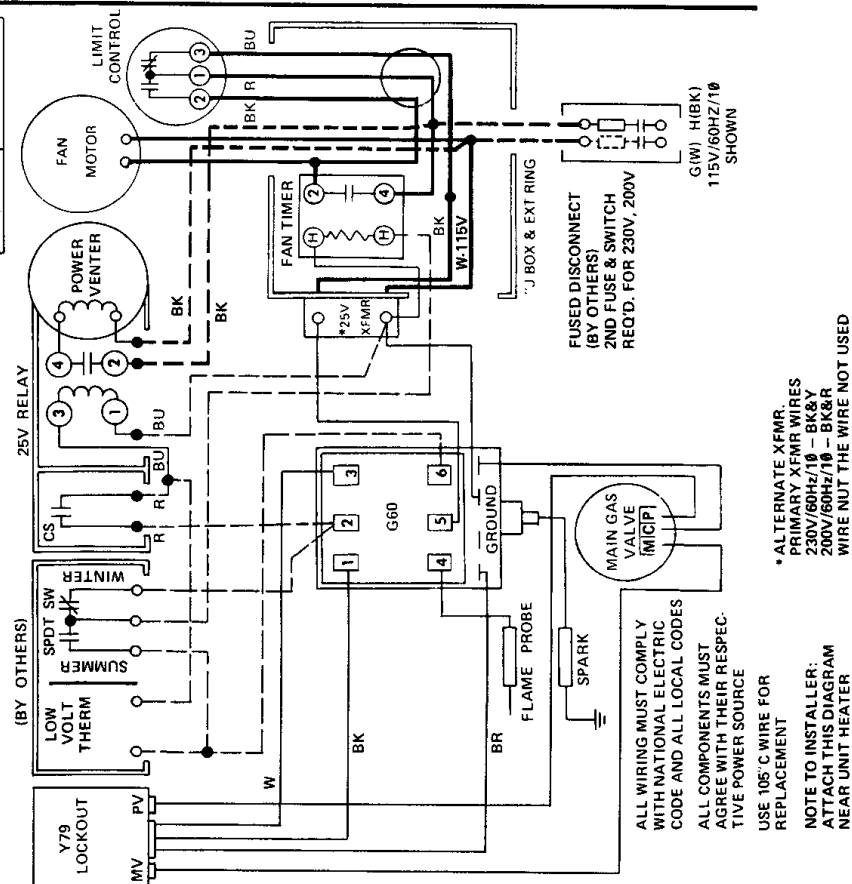
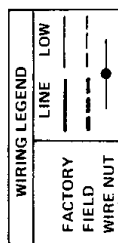




MODINE 6-430 WIRING DIAGRAM MODELS PA, BA



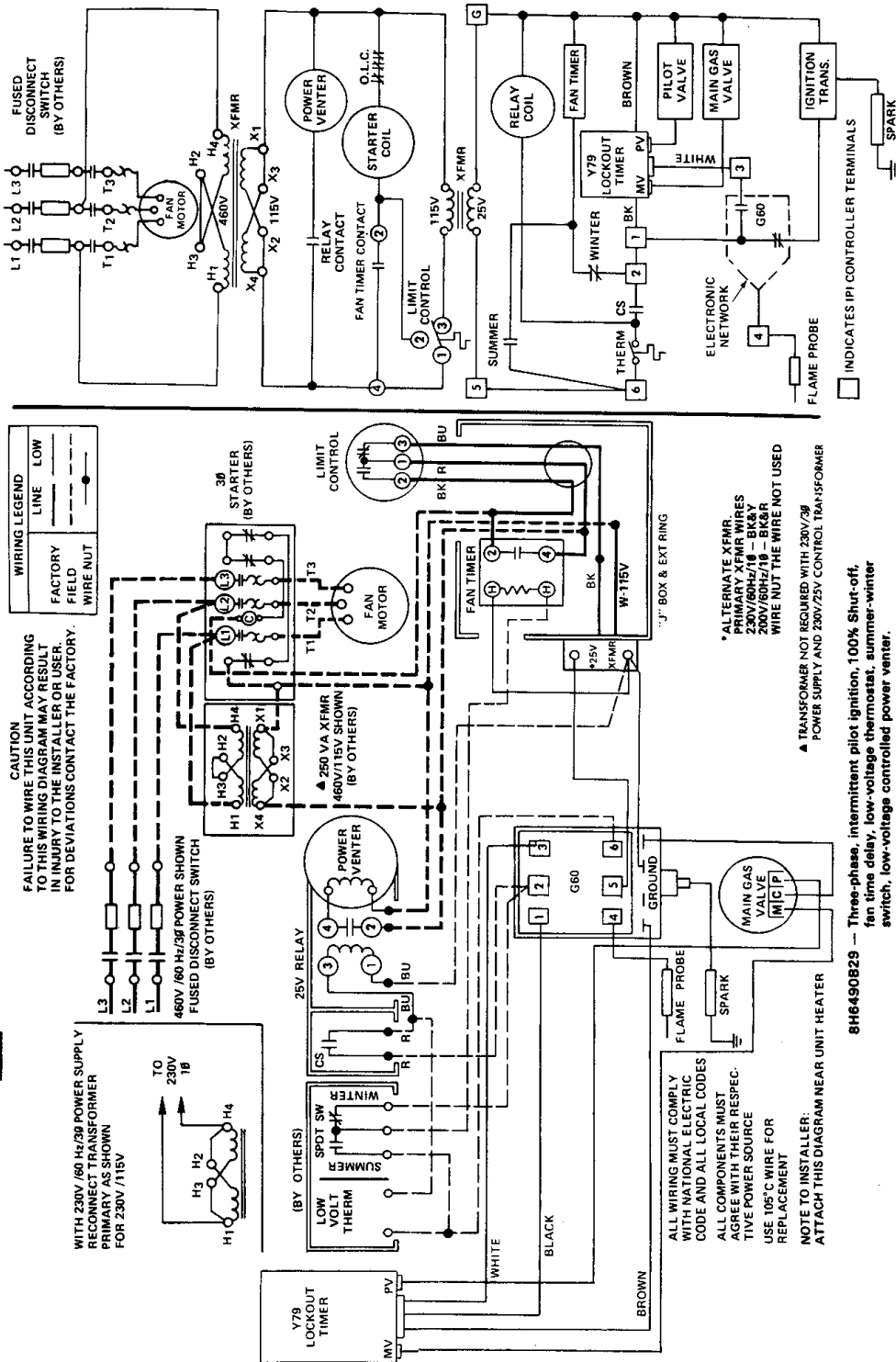
CAUTION
FAILURE TO WIRE THIS UNIT ACCORDING
TO THIS WIRING DIAGRAM MAY RESULT
IN INJURY TO THE INSTALLER OR USER.
FOR DEVIATIONS CONTACT THE FACTORY.



8H6490829 — Single-phase, intermittent pilot ignition, 100% Shut-off, fan time delay, low-voltage thermostat, summer-winter switch, low-voltage thermostat, single phase.



MODINE 6-430 WIRING DIAGRAM MODELS PA, BA

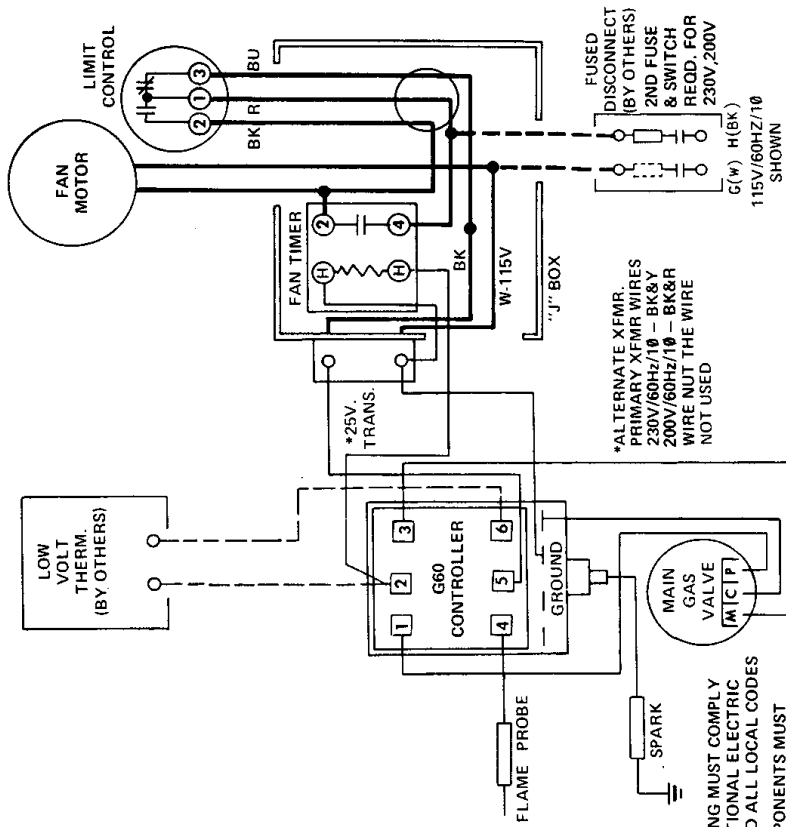




MODINE 6-430 WIRING DIAGRAM MODELS PA, BA

CAUTION
FAILURE TO WIRE THIS UNIT ACCORDING
TO THIS WIRING DIAGRAM MAY RESULT
IN INJURY TO THE INSTALLER OR USER.
FOR DEVIATIONS CONTACT THE FACTORY.

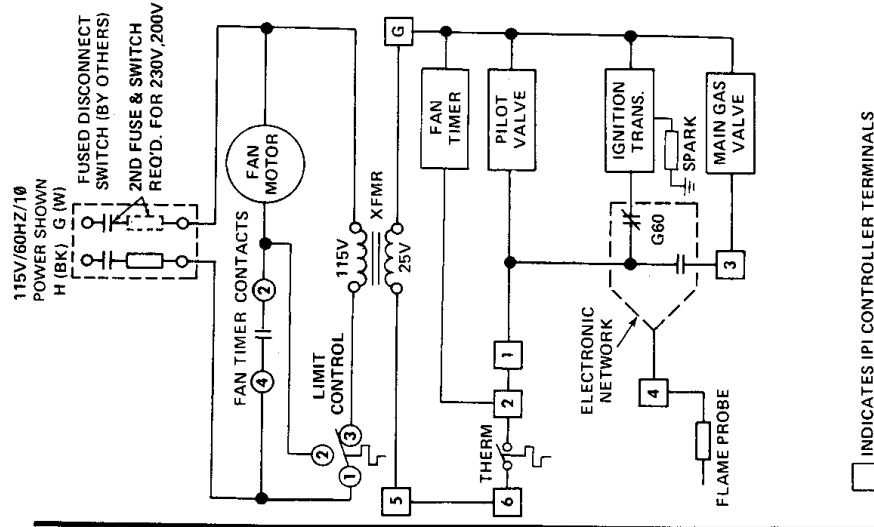
WIRING LEGEND	
FACTORY	LINE
FIELD	LOW
WIRE NUT	---



ALL WIRING MUST COMPLY
WITH NATIONAL ELECTRIC
CODE AND ALL LOCAL CODES
ALL COMPONENTS MUST
AGREE WITH THEIR RESPEC-
TIVE POWER SOURCE
USE 105°C WIRE FOR
REPLACEMENT

NOTE TO INSTALLER:
ATTACH THIS DIAGRAM
NEAR HEATER

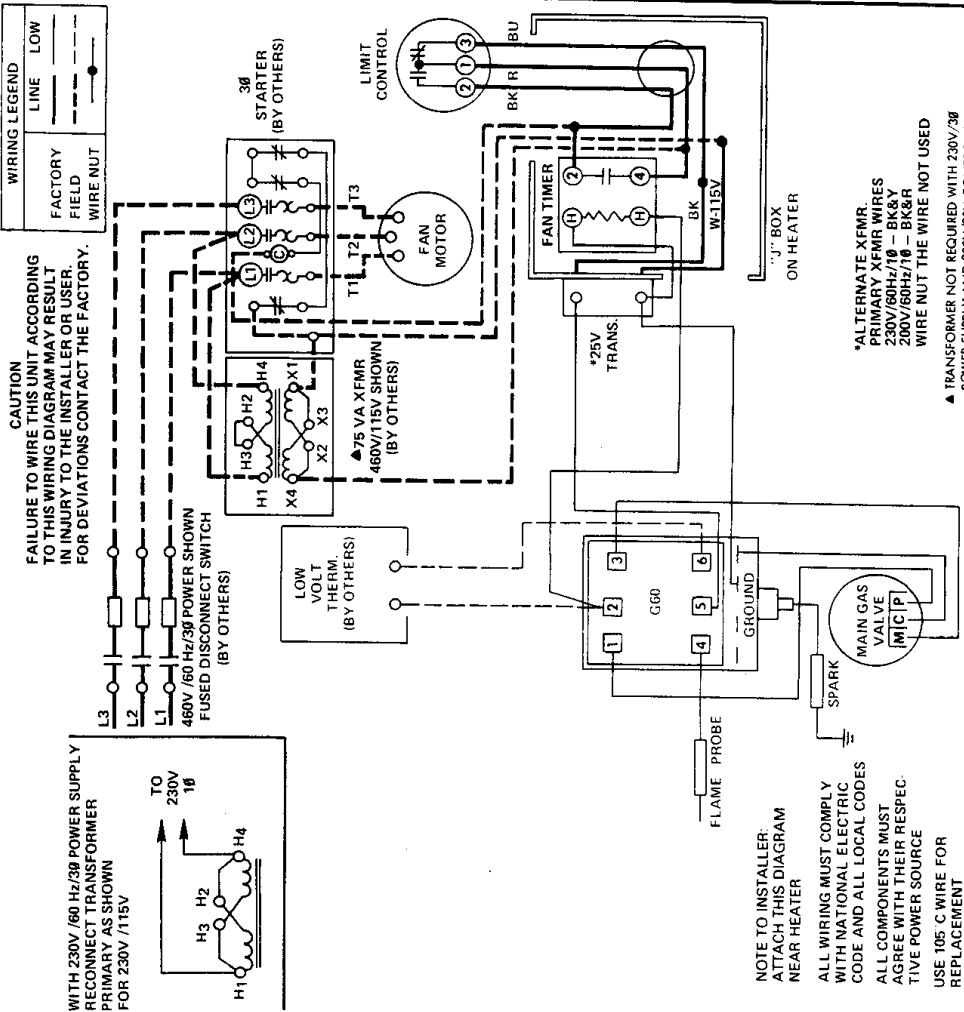
5H70081B13 — Single-phase, intermittent pilot ignition, non-100%
shut-off, fan-time delay, low-voltage thermostat. (Rev. B)



□ INDICATES IPI CONTROLLER TERMINALS



MODINE 6-430 WIRING DIAGRAM MODELS PA, BA



5H70081B13 — Three-phase, intermittent pilot ignition, non-100% shut-off, fan-time delay, low-voltage thermostat. (Rev. B)



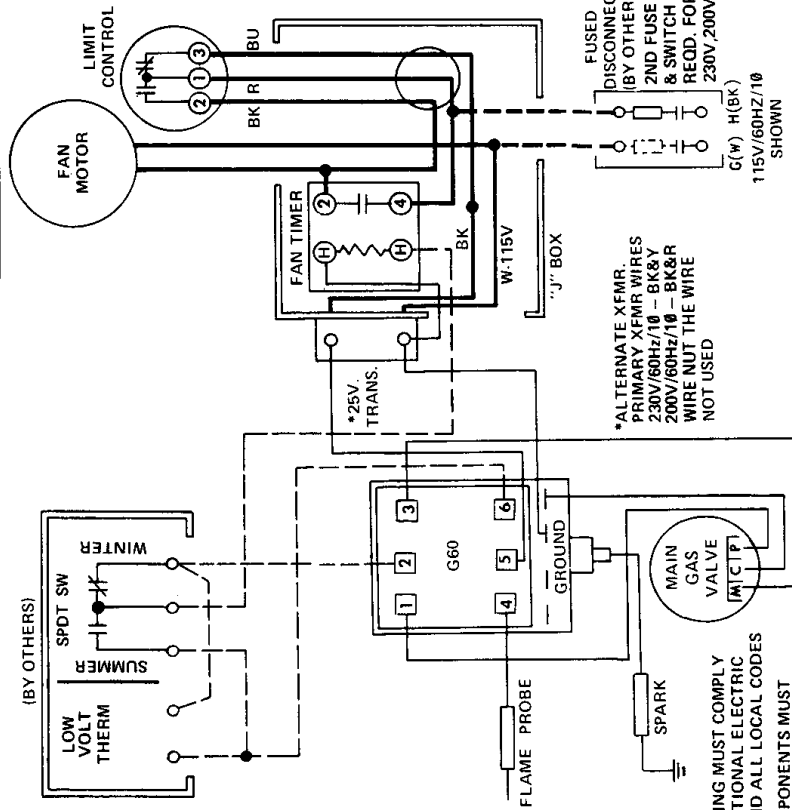
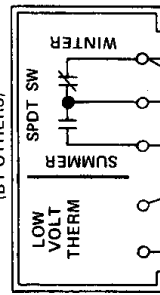
MODINE 6-430 WIRING DIAGRAM MODELS PA, BA

CAUTION

FAILURE TO WIRE THIS UNIT ACCORDING TO THIS WIRING DIAGRAM MAY RESULT IN INJURY TO THE INSTALLER OR USER. FOR DEVIATIONS CONTACT THE FACTORY.

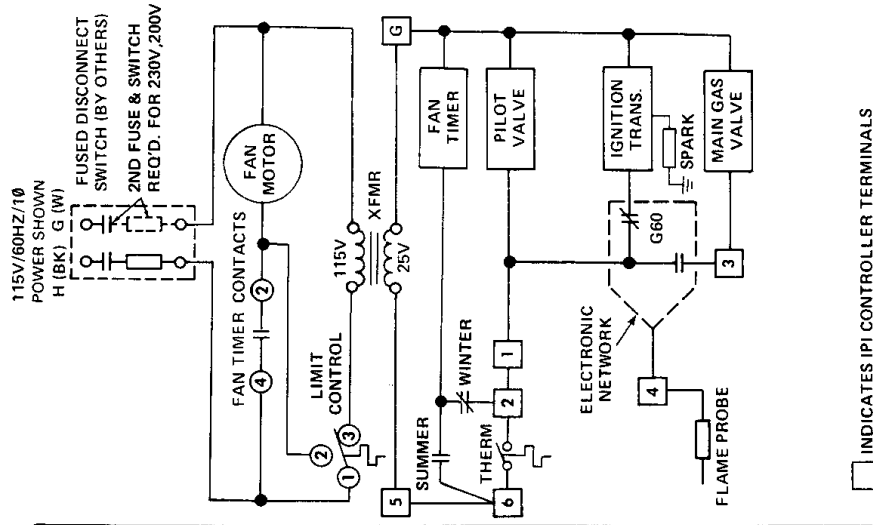
WIRING LEGEND	
FACTORY	LINE
FIELD	LOW
WIRE NUT	

(BY OTHERS)



ALL WIRING MUST COMPLY WITH NATIONAL ELECTRIC CODE AND ALL LOCAL CODES. ALL COMPONENTS MUST AGREE WITH THEIR RESPECTIVE POWER SOURCE. USE 105°C WIRE FOR REPLACEMENT.

NOTE TO INSTALLER: ATTACH THIS DIAGRAM NEAR HEATER



INDICATES IPI CONTROLLER TERMINALS

8H6490B8 — Single-phase, intermittent pilot ignition, non-100% shut-off, fan time delay, low-voltage thermostat, summer-winter switch.

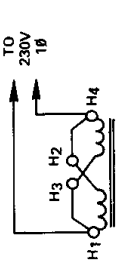


MODINE 6-430 WIRING DIAGRAM MODELS PA, BA

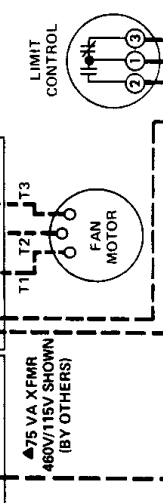
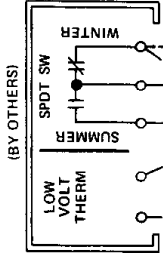
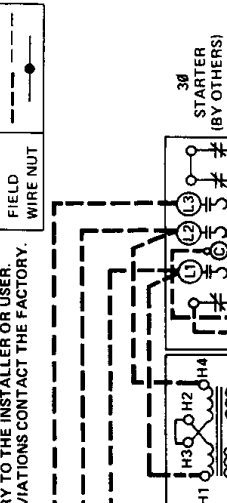
WIRING LEGEND	
LINE	LOW
FACILITY	---
FIELD	---
WIRE NUT	●

CAUTION
FAILURE TO WIRE THIS UNIT ACCORDING
TO THIS WIRING DIAGRAM MAY RESULT
IN INJURY TO THE INSTALLER OR USER.
FOR DEVIATIONS CONTACT THE FACTORY.

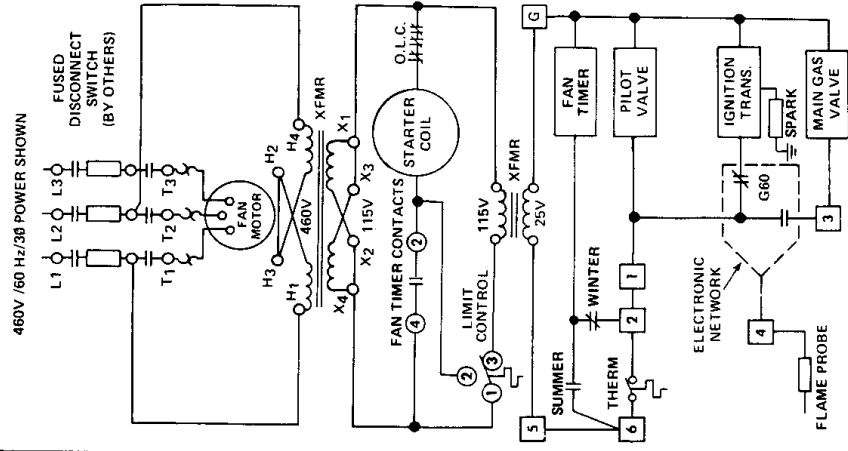
WITH 230V /60 Hz/3Ø POWER SUPPLY
RECONNECT TRANSFORMER
PRIMARY AS SHOWN
FOR 230V /115V



460V /60 Hz/3Ø POWER SHOWN
FUSED DISCONNECT SWITCH
(BY OTHERS)



18A



□ INDICATES IPI CONTROLLER TERMINALS

NOTE TO INSTALLER:
ATTACH THIS DIAGRAM
NEAR HEATER

ALL WIRING MUST COMPLY
WITH NATIONAL ELECTRIC
CODE AND ALL LOCAL CODES
ALL COMPONENTS MUST
AGREE WITH THEIR RESPEC-
TIVE POWER SOURCE
USE 105°C WIRE FOR
REPLACEMENT

*ALTERNATE XFMR.
PRIMARY XFMR WIRES
230V/60Hz/1Ø - BK&Y
200V/60Hz/1Ø - BK&R
WIRE NUT THE WIRE NOT USED

▲ TRANSFORMER NOT REQUIRED WITH 230V/3Ø
POWER SUPPLY AND 230V/25V CONTROL TRANSFORMER

"J" BOX
ON HEATER

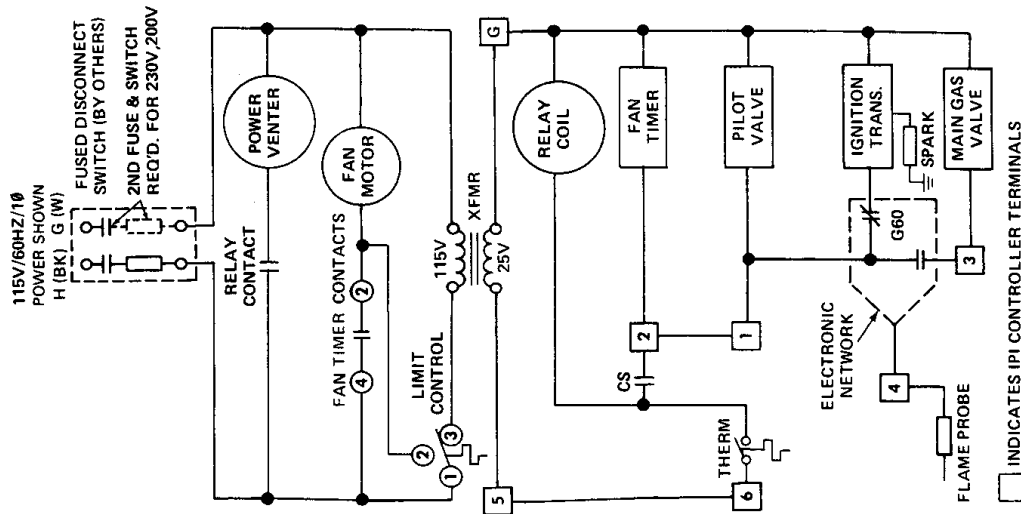
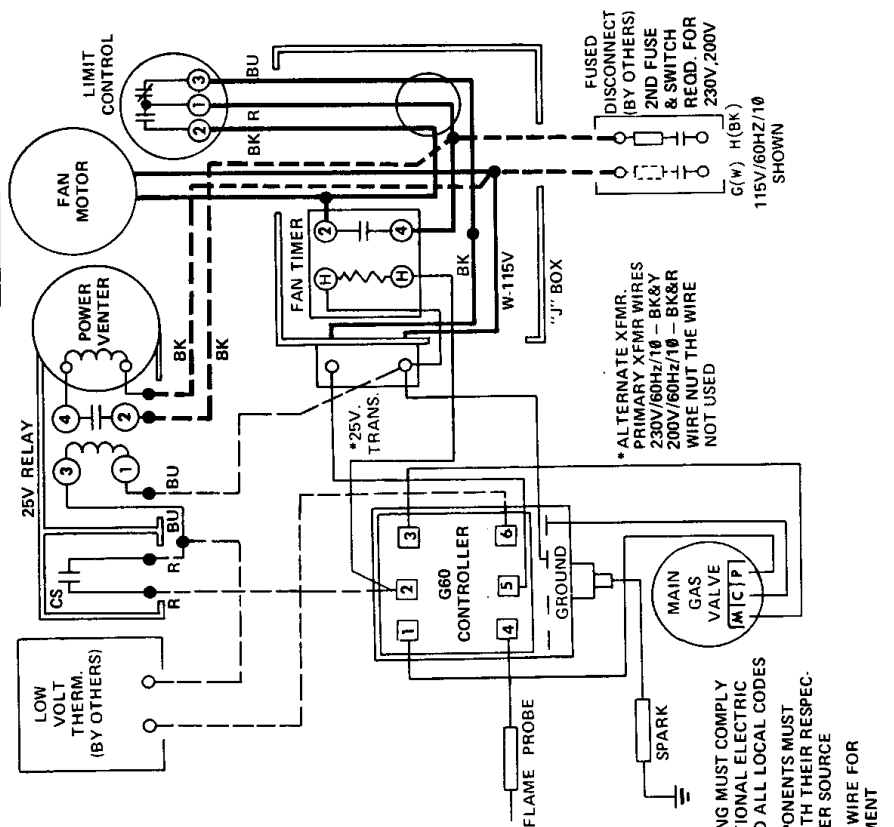
8H649088 — Three-phase, intermittent pilot ignition, non-100% shut-off,
fan time delay, low-voltage thermostat, summer-winter switch.



MODINE 6-430 WIRING DIAGRAM MODELS PA, BA

WIRING LEGEND	
LINE	LOW
FACILITY	FIELD
WIRE NUT	

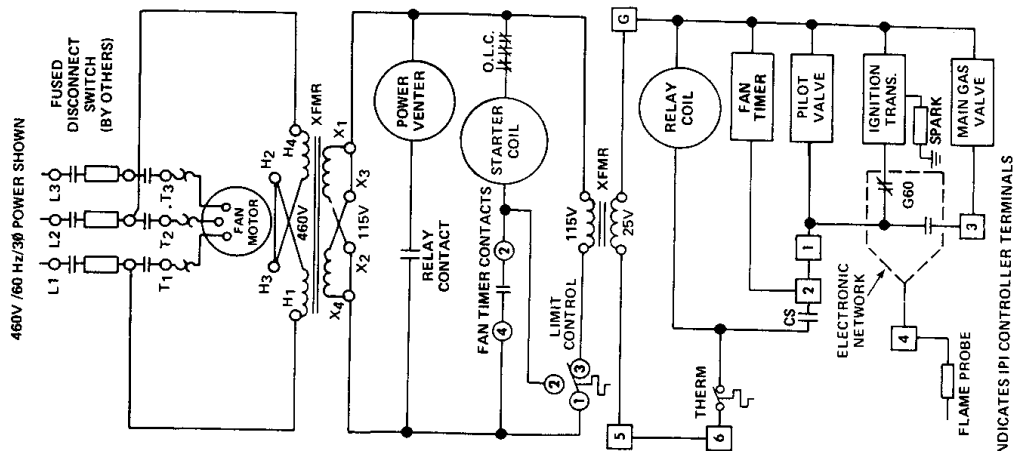
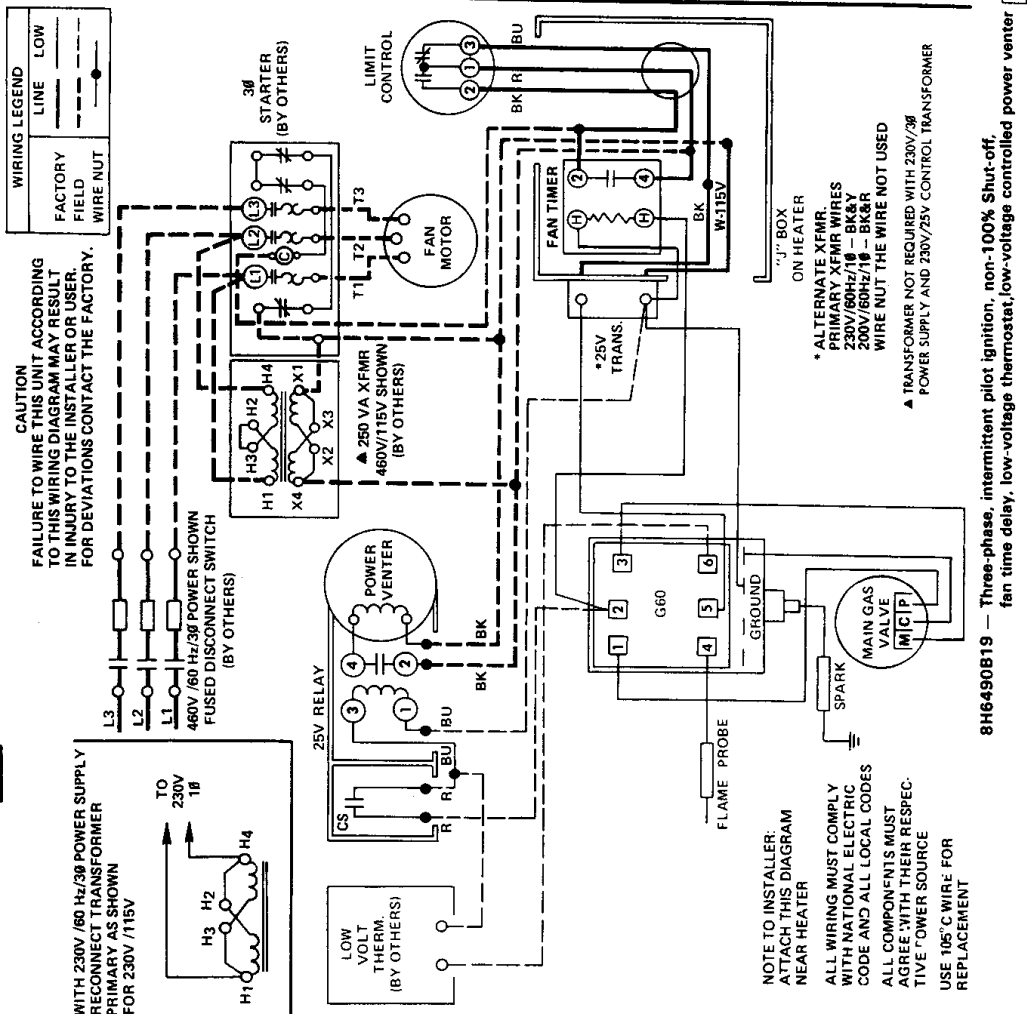
CAUTION
FAILURE TO WIRE THIS UNIT ACCORDING
TO THIS WIRING DIAGRAM MAY RESULT
IN INJURY TO THE INSTALLER OR USER.
FOR DEVIATIONS CONTACT THE FACTORY.



8H6490B19 — Single-phase, intermittent pilot ignition, non-100% Shut-off, fan time delay, low-voltage thermostat, low-voltage controlled power venter.



MODINE 6-430 WIRING DIAGRAM MODELS PA, BA



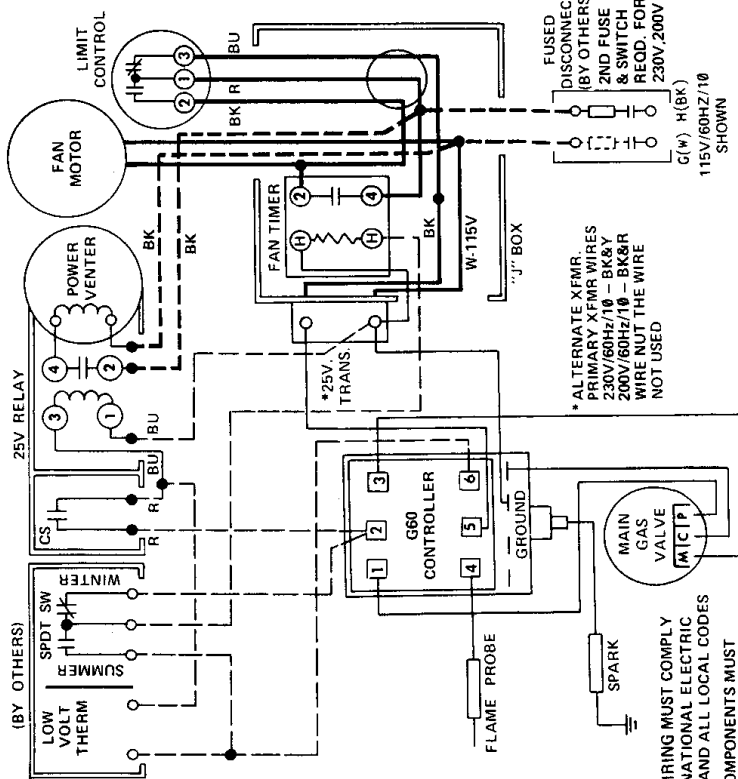


MODINE 6-430 WIRING DIAGRAM MODELS PA, BA

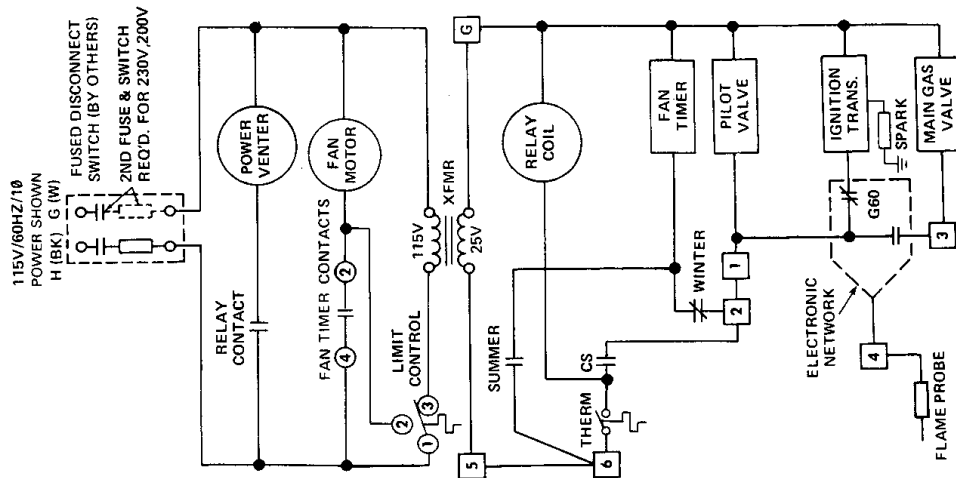
CAUTION

FAILURE TO WIRE THIS UNIT ACCORDING TO THIS WIRING DIAGRAM MAY RESULT IN INJURY TO THE INSTALLER OR USER. FOR DEVIATIONS CONTACT THE FACTORY.

WIRING LEGEND	
FACTORY	LOW
FIELD	---
WIRE NUT	•



ALL WIRING MUST COMPLY WITH NATIONAL ELECTRIC CODE AND ALL LOCAL CODES. ALL COMPONENTS MUST AGREE WITH THEIR RESPECTIVE POWER SOURCE. USE 105°C WIRE FOR REPLACEMENT. NOTE TO INSTALLER: ATTACH THIS DIAGRAM NEAR HEATER.



□ INDICATES IPI CONTROLLER TERMINALS

8H6490830 — Single-phase, intermittent pilot ignition, non-100% Shut-off, fan time delay, low-voltage thermostat, summer-winter switch, low-voltage controlled power venter.



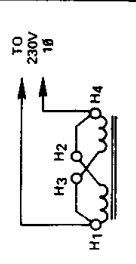
MODINE 6-430 WIRING DIAGRAM MODELS PA, BA

CAUTION

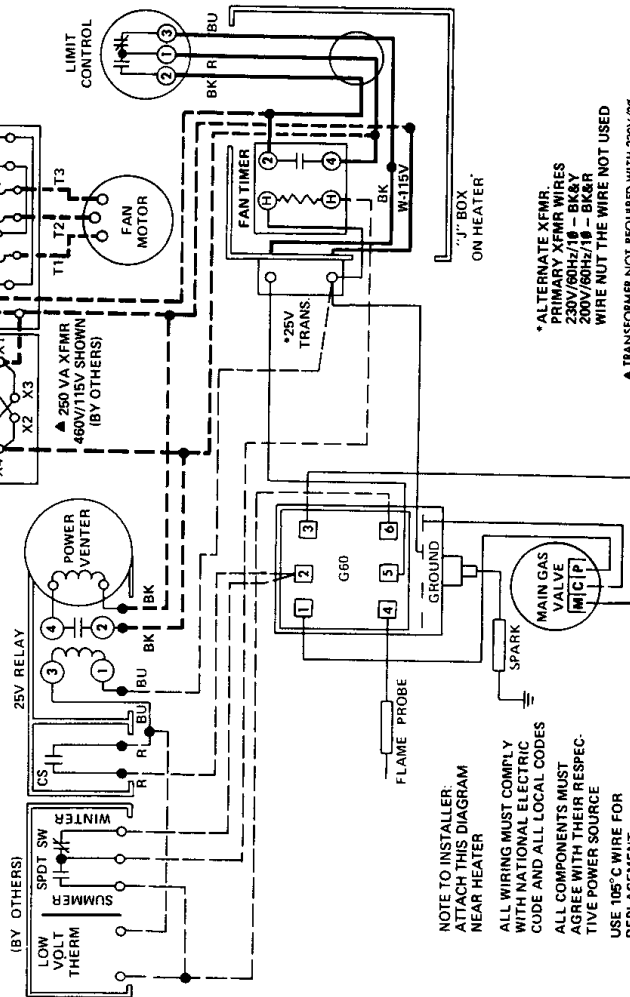
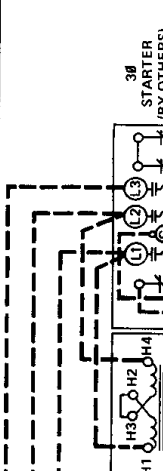
FAILURE TO WIRE THIS UNIT ACCORDING TO THIS WIRING DIAGRAM MAY RESULT IN INJURY TO THE INSTALLER OR USER. FOR DEVIATIONS CONTACT THE FACTORY.

WIRING LEGEND	
LINE	LOW
FACTORY	FIELD
WIRE NUT	

WITH 230V /60 Hz/3Ø POWER SUPPLY RECONNECT TRANSFORMER PRIMARY AS SHOWN FOR 230V /115V



460V /60 Hz/3Ø POWER SHOWN FUSED DISCONNECT SWITCH (BY OTHERS)



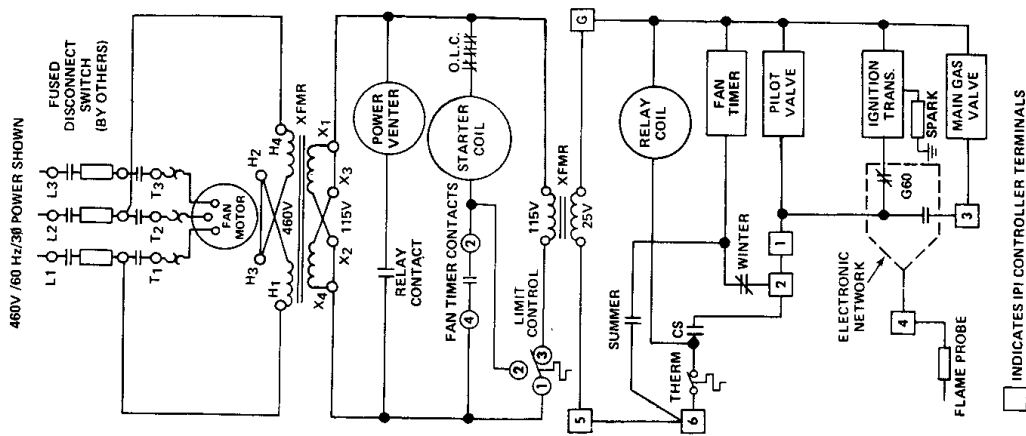
NOTE TO INSTALLER:
ATTACH THIS DIAGRAM
NEAR HEATER

ALL WIRING MUST COMPLY
WITH NATIONAL ELECTRIC
CODE AND ALL LOCAL CODES
ALL COMPONENTS MUST
AGREE WITH THEIR RESPEC-
TIVE POWER SOURCE
USE 105°C WIRE FOR
REPLACEMENT

* ALTERNATE XFMR:
PRIMARY XFMR WIRES
230V/60Hz/1Ø - BK&Y
200V/60Hz/1Ø - BK&R
WIRE NUT THE WIRE NOT USED

▲ TRANSFORMER NOT REQUIRED WITH 230V/3Ø
POWER SUPPLY AND 230V/25V CONTROL TRANSFORMER

8H6490B30 — Three-phase, intermittent pilot ignition, non-100% Shut-off, fan time delay, low-voltage thermostat, summer-winter switch, low-voltage controlled power venter.



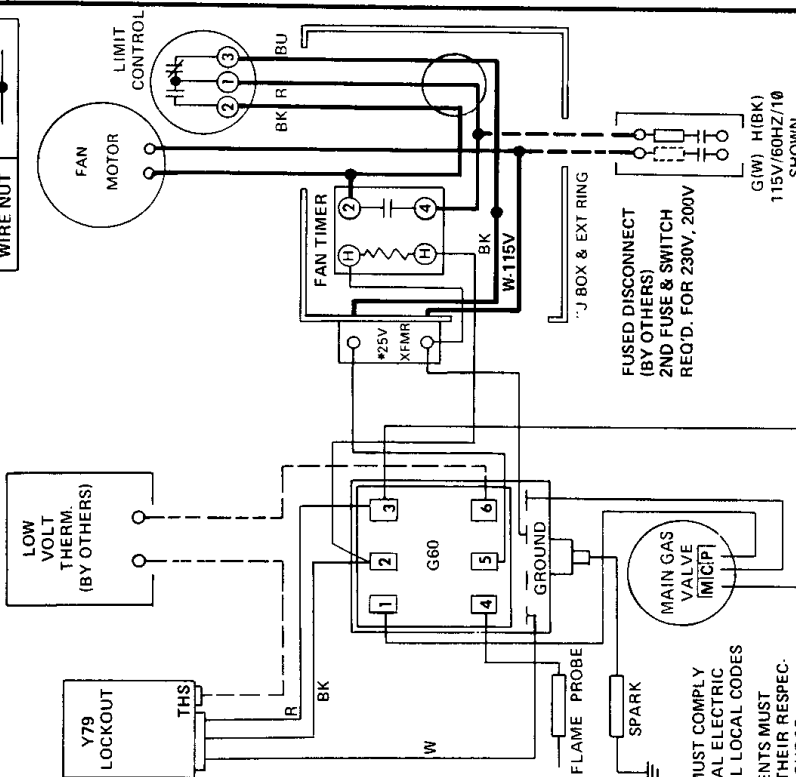
□ INDICATES IPI CONTROLLER TERMINALS



MODINE 6-430 WIRING DIAGRAM MODELS PA/BA

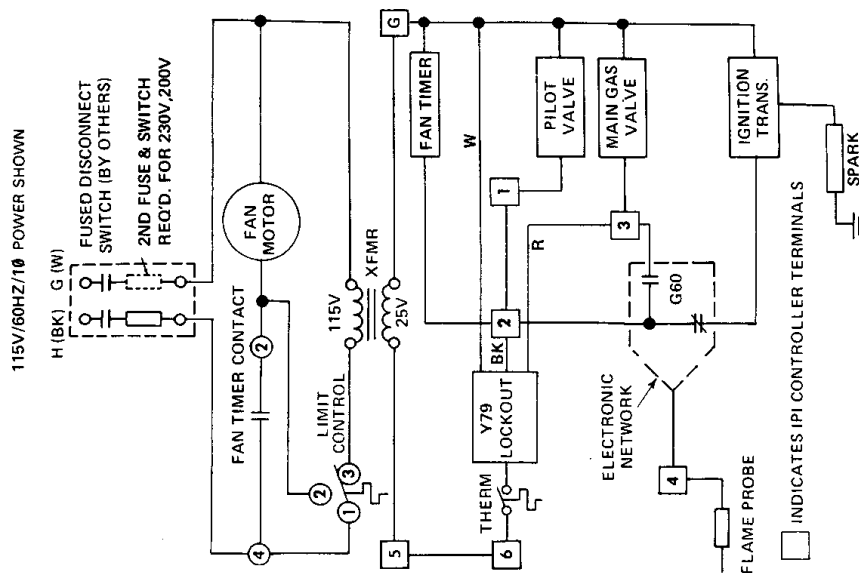
CAUTION
FAILURE TO WIRE THIS UNIT ACCORDING TO THIS WIRING DIAGRAM MAY RESULT IN INJURY TO THE INSTALLER OR USER. FOR DEVIATIONS CONTACT THE FACTORY.

WIRING LEGEND	
FACTORY	LOW
FIELD	---
WIRE NUT	●



*ALTERNATE XFMR.
PRIMARY XFMR WIRES
230V/60Hz/1Ø - BK&Y
200V/60Hz/1Ø - BK&R
WIRE NUT THE WIRE NOT USED

NOTE TO INSTALLER:
ATTACH THIS DIAGRAM
NEAR UNIT HEATER



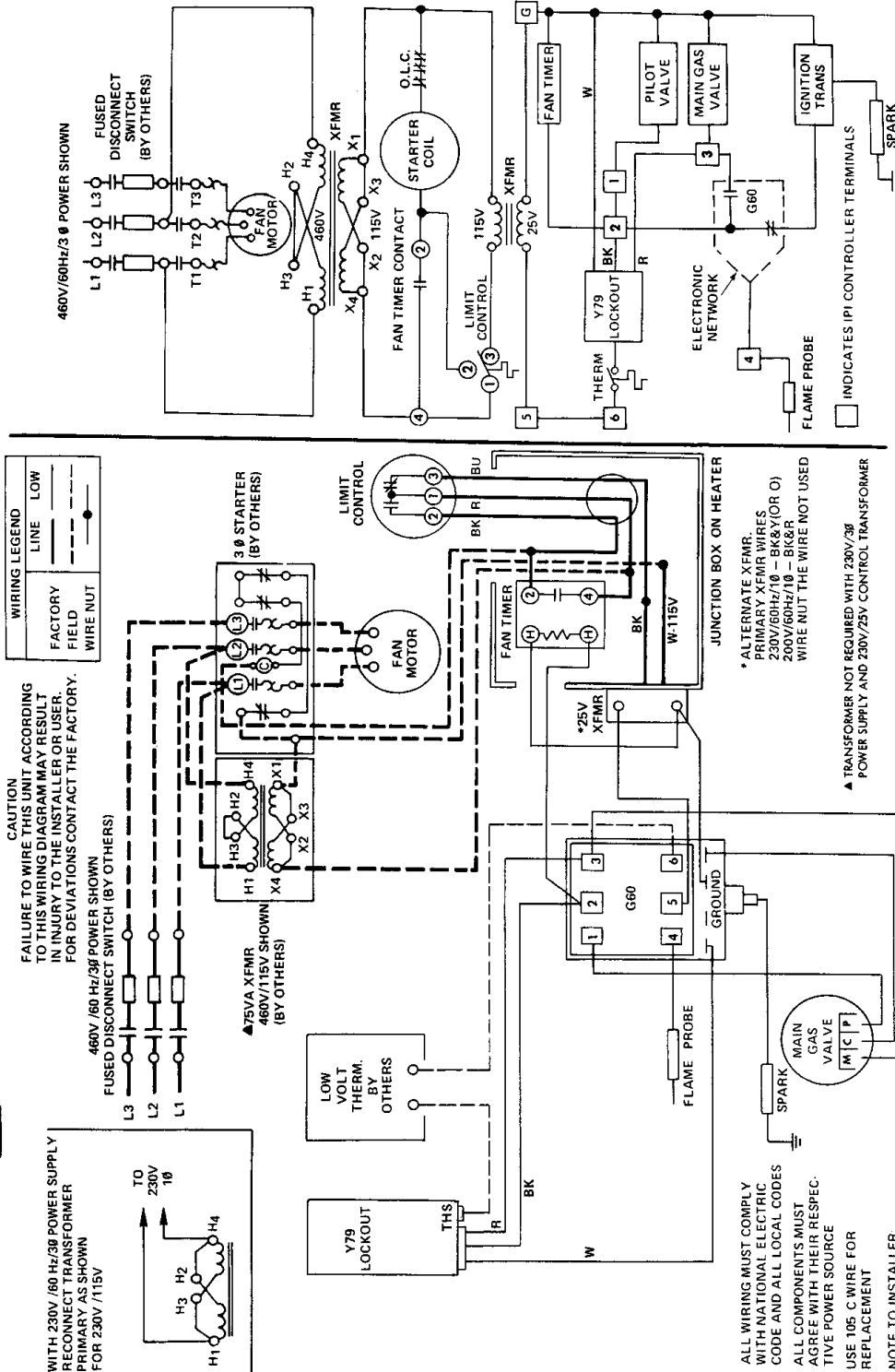
5H70081B17 — Single phase, Intermittent pilot ignition, 100% shut-off, fan-time delay, low-voltage thermostat. (Rev. E)



MODINE 6-430 WIRING DIAGRAM MODELS PA, BA

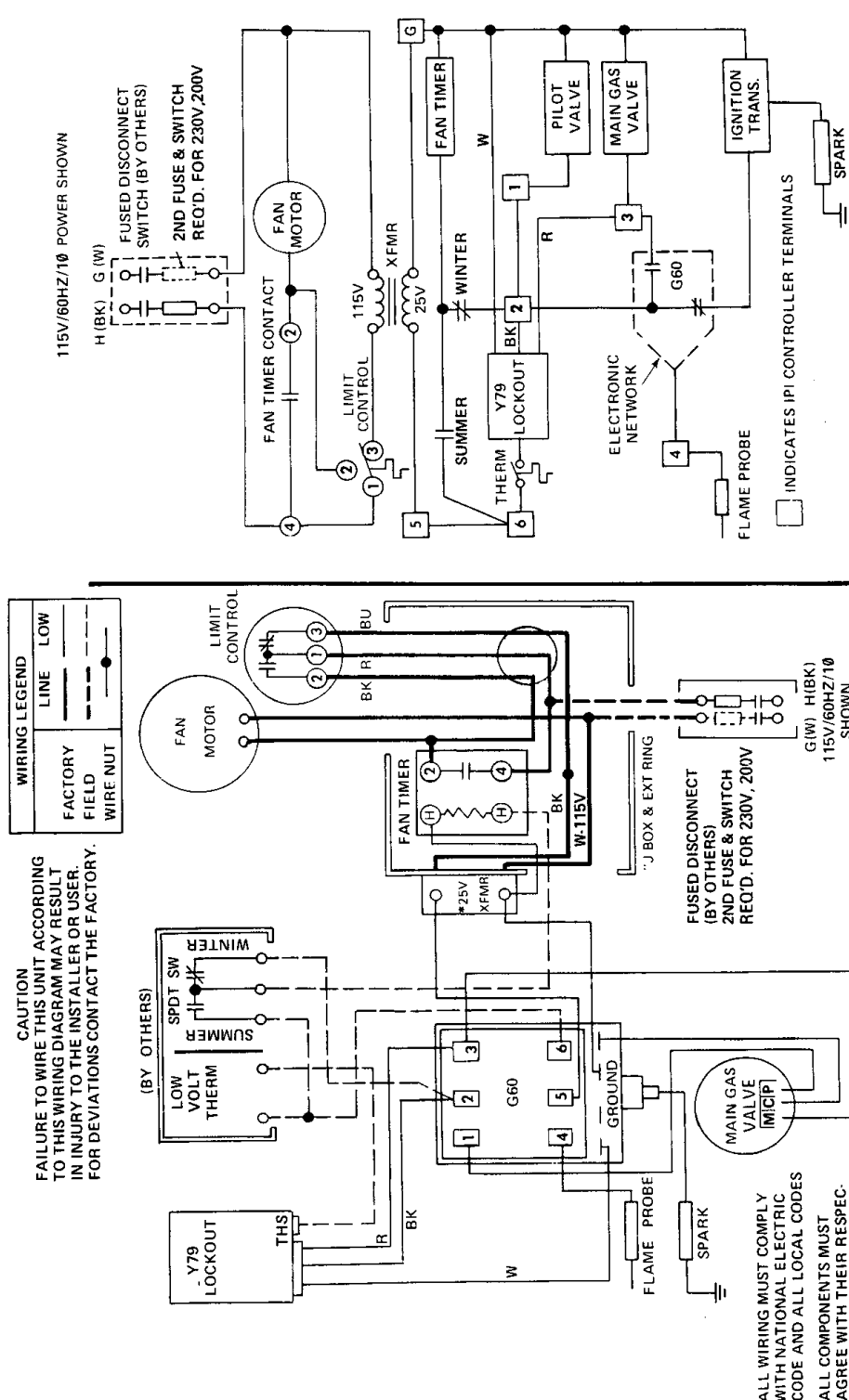
WIRING LEGEND	
FACTORY	LINE
FIELD	LOW
WIRE NUT	

CAUTION
FAILURE TO WIRE THIS UNIT ACCORDING
TO THIS WIRING DIAGRAM MAY RESULT
IN INJURY TO THE INSTALLER OR USER.
FOR DEVIATIONS CONTACT THE FACTORY.



5H70081B17 - Three-phase, intermittent pilot ignition, 100% shut-off, fan-time delay, low-voltage thermostat. (Rev. E)

MODINE 6-430 WIRING DIAGRAM MODELS PA/BA



ALTERNATE XFMR.
PRIMARY XFMR WIRES
230V/60Hz/1Ø - BK&Y
200V/60Hz/1Ø - BK&R
WIRE NUT THE WIRE NO

**NOTE TO INSTALLER:
ATTACH THIS DIAGRAM
NEAR UNIT HEATER**

8H6490B9 — Single-phase, intermittent pilot ignition, 100% shut-off, fan time delay, low-voltage thermostat, summer-winter switch.

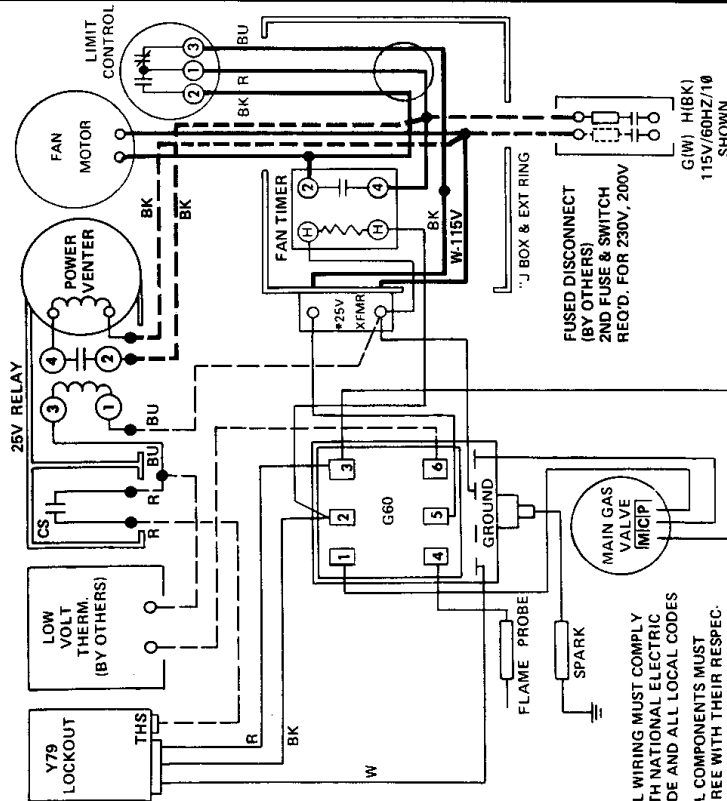


MODINE 6-430 WIRING DIAGRAM MODELS PA/BA

CAUTION

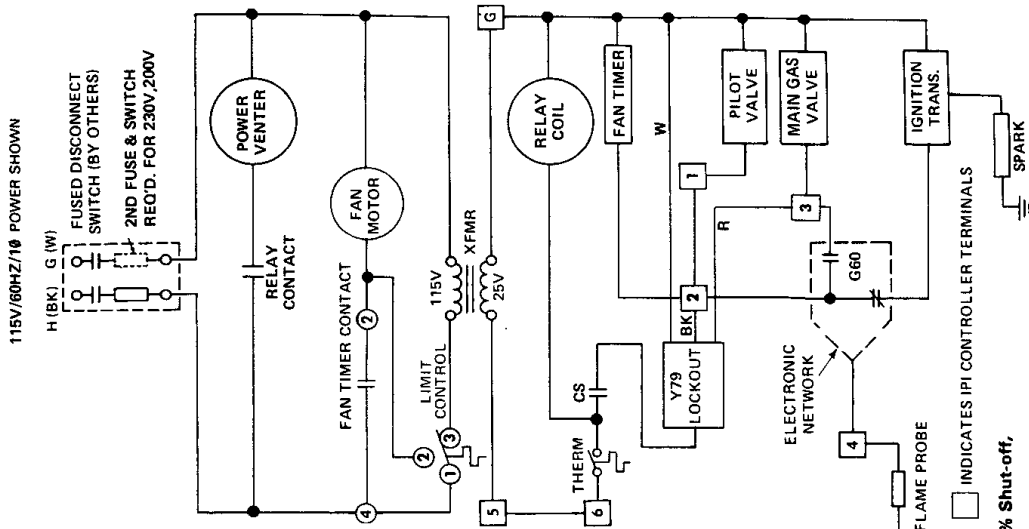
FAILURE TO WIRE THIS UNIT ACCORDING TO THIS WIRING DIAGRAM MAY RESULT IN INJURY TO THE INSTALLER OR USER. FOR DEVIATIONS CONTACT THE FACTORY.

WIRING LEGEND	
FACTORY	LOW
FIELD	---
WIRE NUT	•



ALL WIRING MUST COMPLY WITH NATIONAL ELECTRIC CODE AND ALL LOCAL CODES. ALL COMPONENTS MUST AGREE WITH THEIR RESPECTIVE POWER SOURCE. USE 105°C WIRE FOR REPLACEMENT.

*ALTERNATE XFMR. PRIMARY XFMR WIRES 230V/60HZ/1Ø - BK&Y 200V/60HZ/1Ø - BK&R WIRE NUT THE WIRE NOT USED

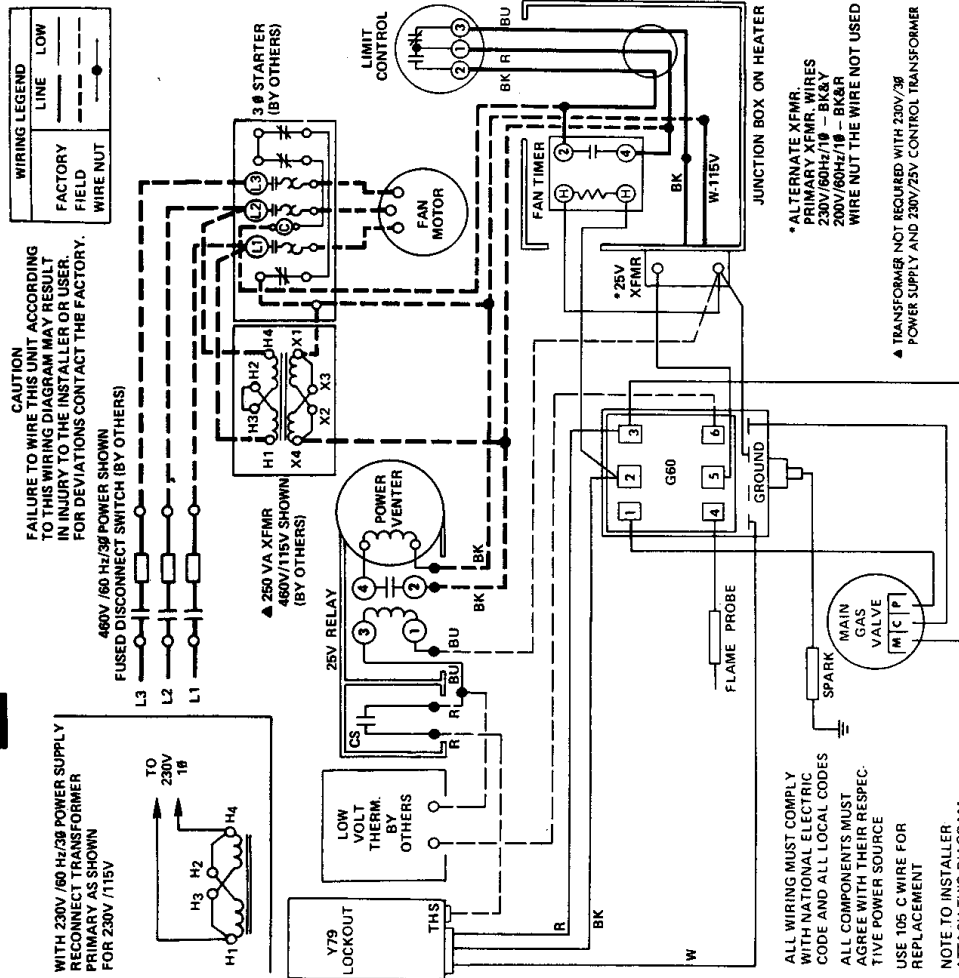


□ INDICATES IPI CONTROLLER TERMINALS

8H6490B20 — Single-phase, intermittent pilot ignition, 100% Shut-off, fan time delay, low-voltage thermostat, low-voltage controlled power venter.



MODINE 6-430 WIRING DIAGRAM MODELS PA, BA



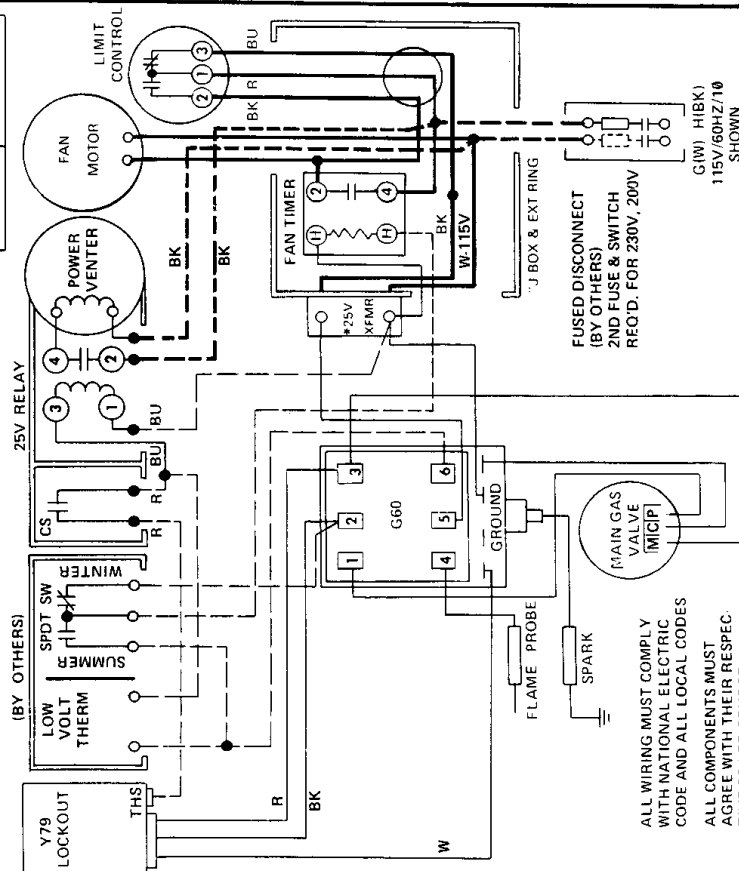


MODINE 6-430 WIRING DIAGRAM MODELS PA/BA

CAUTION

FAILURE TO WIRE THIS UNIT ACCORDING TO THIS WIRING DIAGRAM MAY RESULT IN INJURY TO THE INSTALLER OR USER. FOR DEVIATIONS CONTACT THE FACTORY.

WIRING LEGEND	
FACTORY	LINE
FIELD	LOW
WIRE NUT	



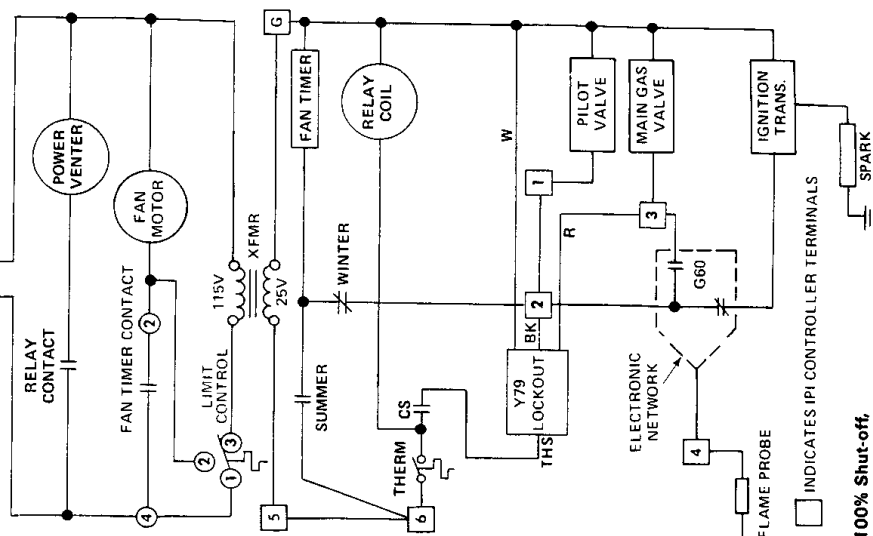
ALL WIRING MUST COMPLY WITH NATIONAL ELECTRIC CODE AND ALL LOCAL CODES. ALL COMPONENTS MUST AGREE WITH THEIR RESPECTIVE POWER SOURCE. USE 105 C WIRE FOR REPLACEMENT.

NOTE TO INSTALLER: ATTACH THIS DIAGRAM NEAR UNIT HEATER.

8H6490B31 — Single-phase, intermittent pilot ignition, 100% Shut-off, fan time delay, low-voltage thermostat, summer-winter switch, low-voltage controlled power venter.

115V/60HZ/1Ø POWER SHOWN

H (BK) G (W)
FUSED DISCONNECT SWITCH (BY OTHERS)
2ND FUSE & SWITCH REQ'D. FOR 230V, 200V



□ INDICATES IPI CONTROLLER TERMINALS

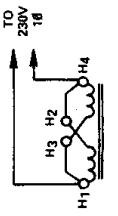


MODINE 6-430 WIRING DIAGRAM MODELS PA, BA

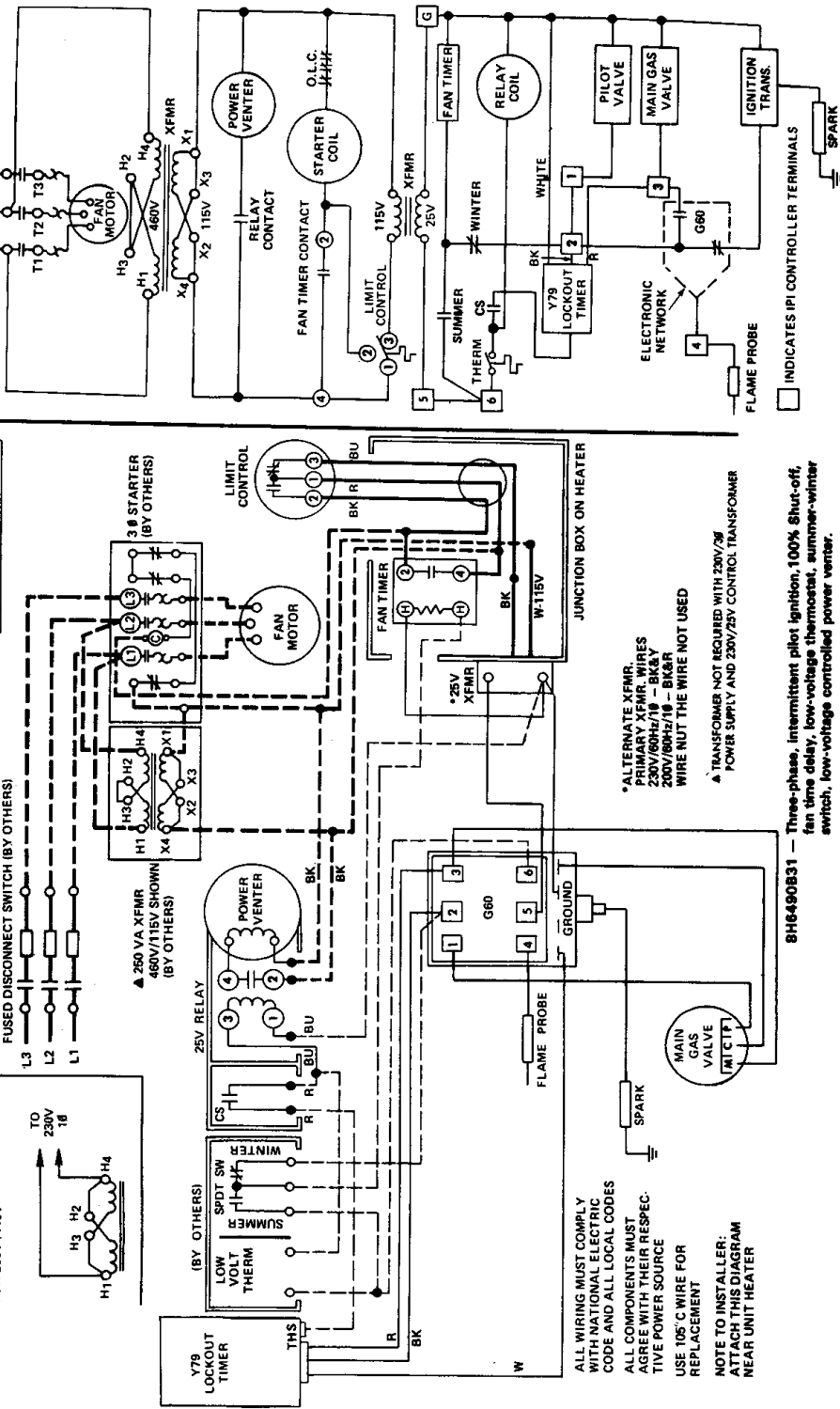
WIRING LEGEND	
LINE	LOW
FACILITY	FIELD
WIRE NUT	

CAUTION
FAILURE TO WIRE THIS UNIT ACCORDING
TO THIS WIRING DIAGRAM MAY RESULT
IN INJURY TO THE INSTALLER OR USER.
FOR DEVIATIONS CONTACT THE FACTORY.

WITH 230V / 60 HZ/3Ø POWER SUPPLY
RECONNECT TRANSFORMER
PRIMARY AS SHOWN
FOR 230V / 115V



460V / 60 HZ/3Ø POWER SHOWN
FUSED DISCONNECT SWITCH (BY OTHERS)



*ALTERNATE XFMR.
PRIMARY XFMR. WIRES
230V/60HZ/1Ø - BK&Y
230V/60HZ/1Ø - BK&R
WIRE NUT THE WIRE NOT USED

▲ TRANSFORMER NOT REQUIRED WITH 230V/3Ø
POWER SUPPLY AND 230V/25V CONTROL TRANSFORMER

8H6490B31 — Three-phase, intermittent pilot ignition, 100% Shut-off,
fan time delay, low-voltage thermostat, summer-winter
switch, low-voltage controlled power venter.

ALL WIRING MUST COMPLY
WITH NATIONAL ELECTRIC
CODE AND ALL LOCAL CODES
ALL COMPONENTS MUST
AGREE WITH THEIR RESPEC-
TIVE POWER SOURCE
USE 105°C WIRE FOR
REPLACEMENT
NOTE TO INSTALLER:
ATTACH THIS DIAGRAM
NEAR UNIT HEATER

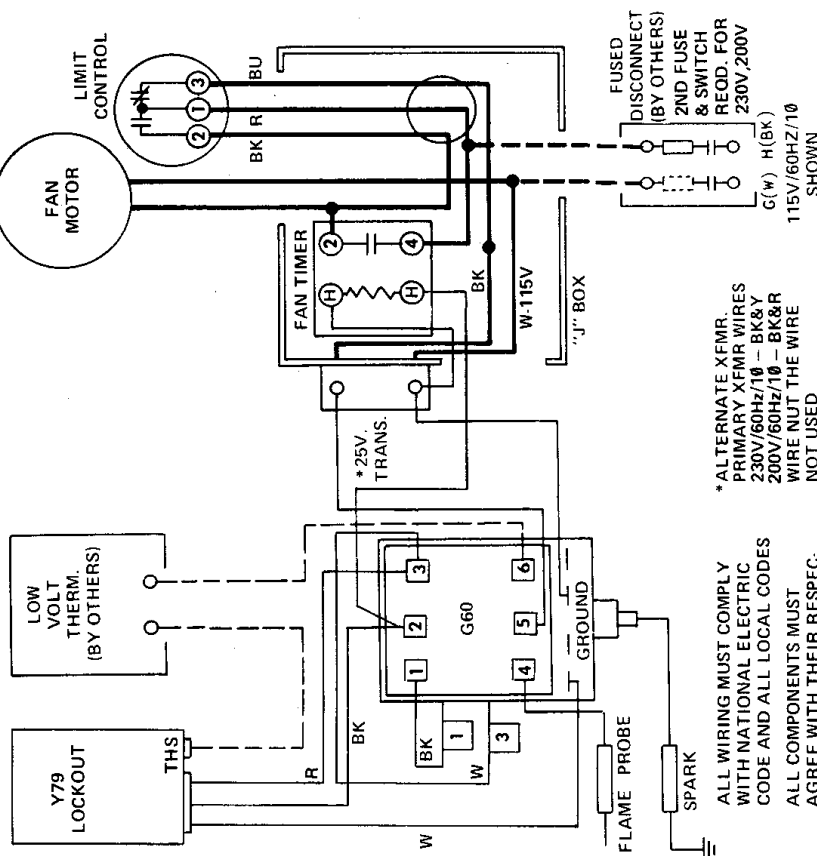


MODINE 6-430 WIRING DIAGRAM MODELS PA, BA

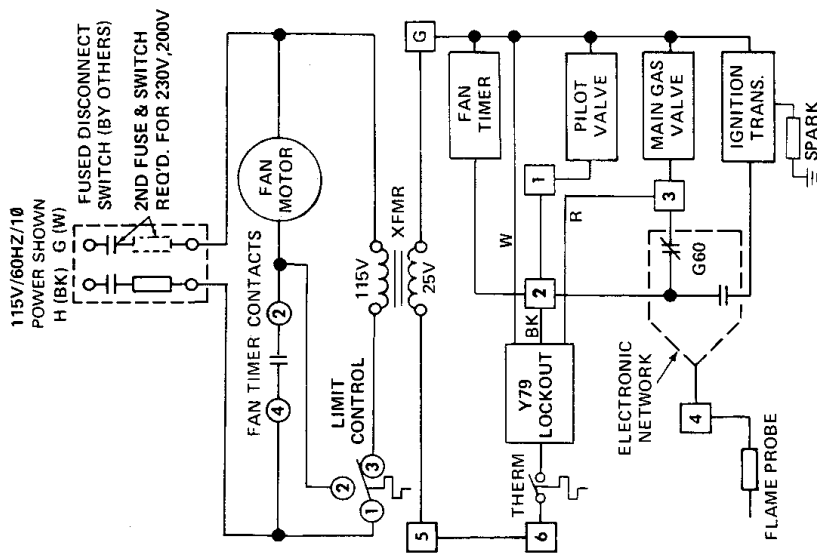
CAUTION

FAILURE TO WIRE THIS UNIT ACCORDING TO THIS WIRING DIAGRAM MAY RESULT IN INJURY TO THE INSTALLER OR USER. FOR DEVIATIONS CONTACT THE FACTORY.

WIRING LEGEND	
FACTORY	LINE
FIELD	LOW
WIRE NUT	



ALL WIRING MUST COMPLY WITH NATIONAL ELECTRIC CODE AND ALL LOCAL CODES
ALL COMPONENTS MUST AGREE WITH THEIR RESPECTIVE POWER SOURCE
USE 105°C WIRE FOR REPLACEMENT
NOTE TO INSTALLER: ATTACH THIS DIAGRAM NEAR HEATER



□ INDICATES IPI CONTROLLER TERMINALS

5H70081B16 — Single-phase, intermittent pilot ignition, 100% shut-off fan-time delay, low-voltage thermostat. (Rev. C)



MODINE 6-430 WIRING DIAGRAM MODELS PA, BA

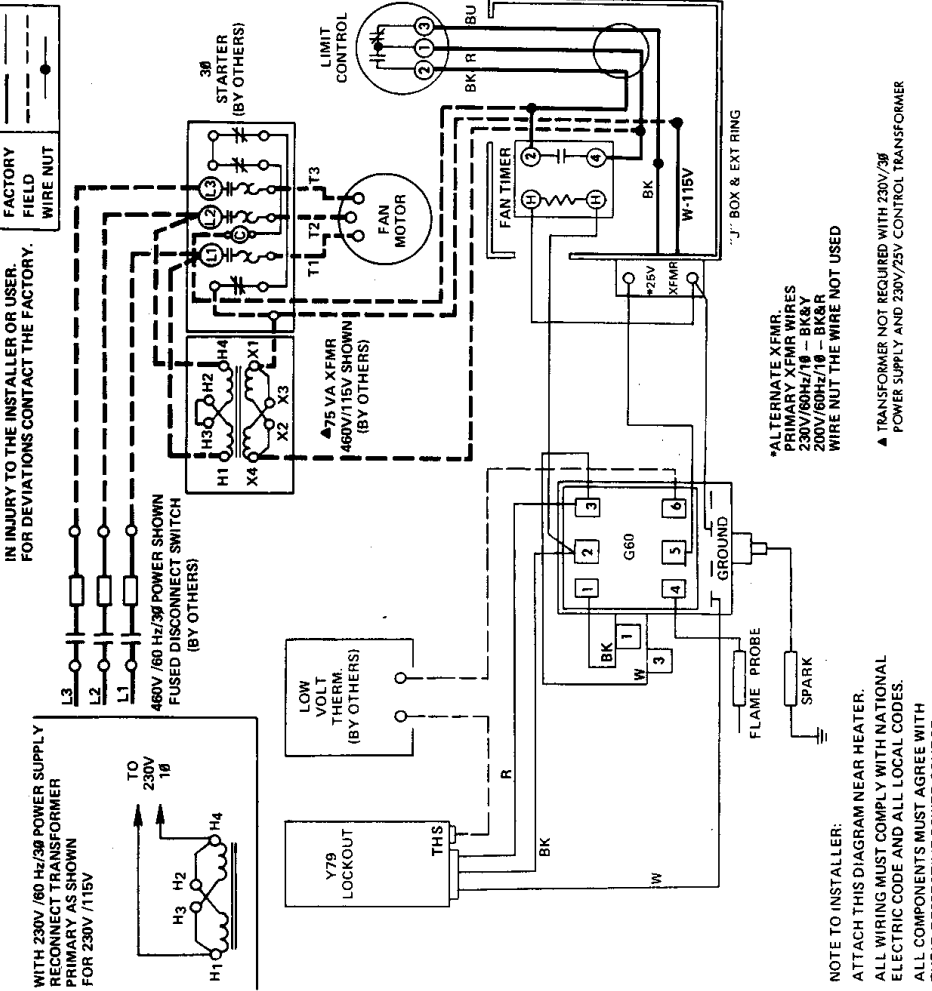
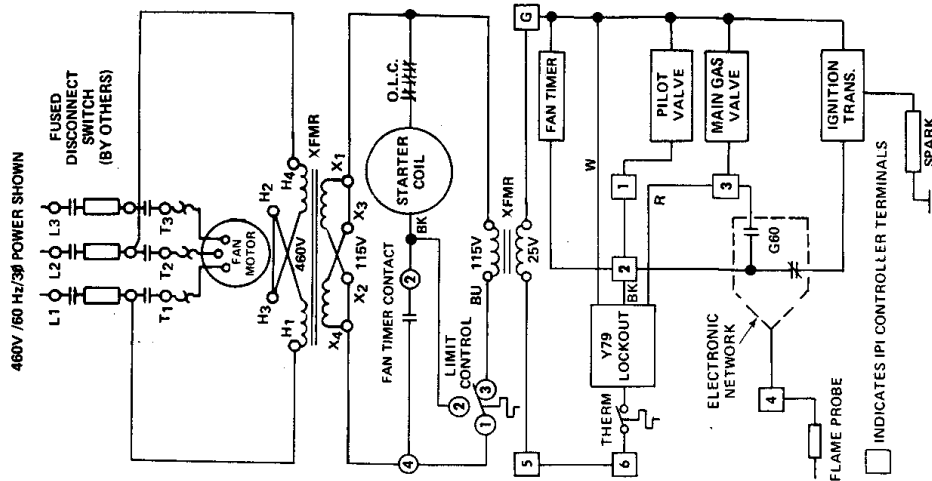
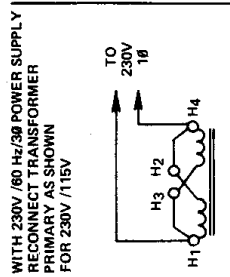
WIRING LEGEND

FACTORY	LOW
---	---
---	---
---	---
---	---

WIRE NUT

CAUTION
FAILURE TO WIRE THIS UNIT ACCORDING
TO THIS WIRING DIAGRAM MAY RESULT
IN INJURY TO THE INSTALLER OR USER.
FOR DEVIATIONS CONTACT THE FACTORY.

WITH 230V / 60 Hz/3Ø POWER SUPPLY
RECONNECT TRANSFORMER
PRIMARY AS SHOWN
FOR 230V / 115V



**5H70081B16 — Three-phase, intermittent pilot ignition, 100% shut-off
fan-time delay, low-voltage thermostat. (Rev. C)**

NOTE TO INSTALLER:

ATTACH THIS DIAGRAM NEAR HEATER.
ALL WIRING MUST COMPLY WITH NATIONAL
ELECTRIC CODE AND ALL LOCAL CODES.
ALL COMPONENTS MUST AGREE WITH
THEIR RESPECTIVE POWER SOURCE.
USE 105°C WIRE FOR REPLACEMENT.

*ALTERNATE XFMR.
PRIMARY XFMR WIRES
230V/60Hz/1Ø — BK&Y
200V/60Hz/1Ø — BK&R
WIRE NUT THE WIRE NOT USED

▲ TRANSFORMER NOT REQUIRED WITH 230V/3Ø
POWER SUPPLY AND 230V/25V CONTROL TRANSFORMER

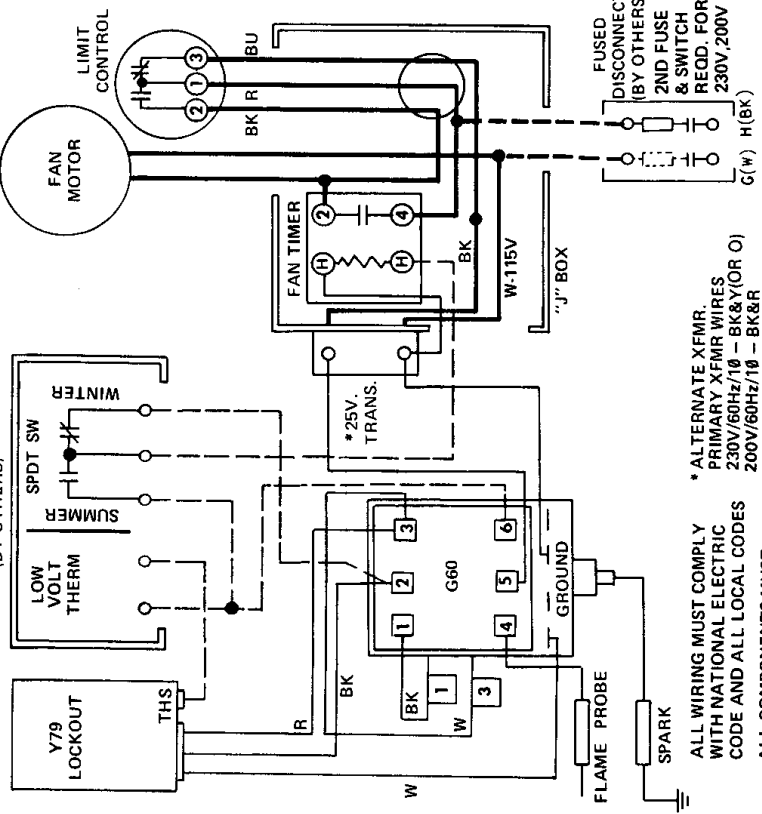
□ INDICATES IPI CONTROLLER TERMINALS



MODINE 6-430 WIRING DIAGRAM MODELS PA, BA

CAUTION
FAILURE TO WIRE THIS UNIT ACCORDING
TO THIS WIRING DIAGRAM MAY RESULT
IN INJURY TO THE INSTALLER OR USER.
FOR DEVIATIONS CONTACT THE FACTORY.
(BY OTHERS)

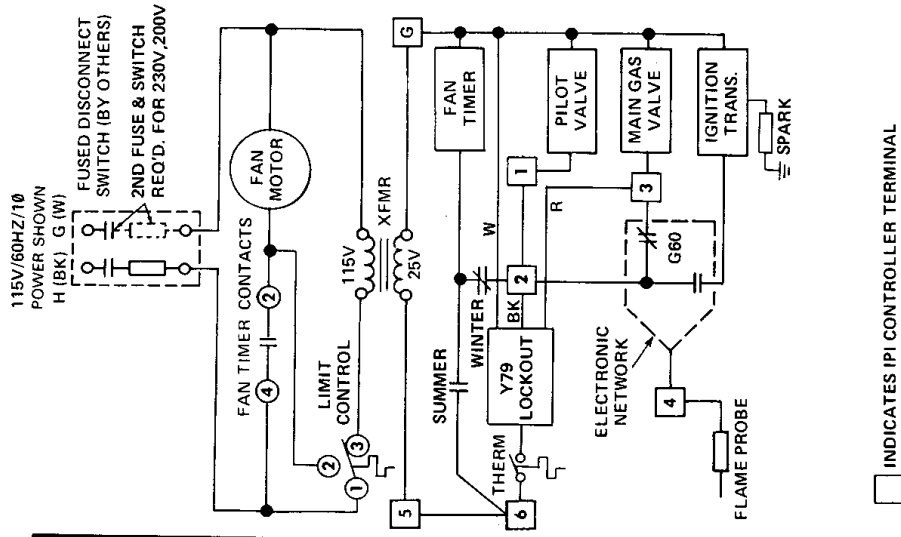
WIRING LEGEND	
LINE	LOW
FACILITY	---
FIELD	---
WIRE NUT	•



* ALTERNATE XFMR.
PRIMARY XFMR WIRES
230V/60Hz/10 - BK&Y (OR O)
200V/60Hz/10 - BK&R
WIRE NUT THE WIRE NOT USED

ALL WIRING MUST COMPLY
WITH NATIONAL ELECTRIC
CODE AND ALL LOCAL CODES
ALL COMPONENTS MUST
AGREE WITH THEIR RESPEC-
TIVE POWER SOURCE
USE 105°C WIRE FOR
REPLACEMENT

NOTE TO INSTALLER:
ATTACH THIS DIAGRAM
NEAR HEATER



□ INDICATES IPI CONTROLLER TERMINAL

8H6490B10 — Single-phase, intermittent pilot ignition, 100% shut-off,
fan-time delay, low-voltage thermostat, summer-winter switch.

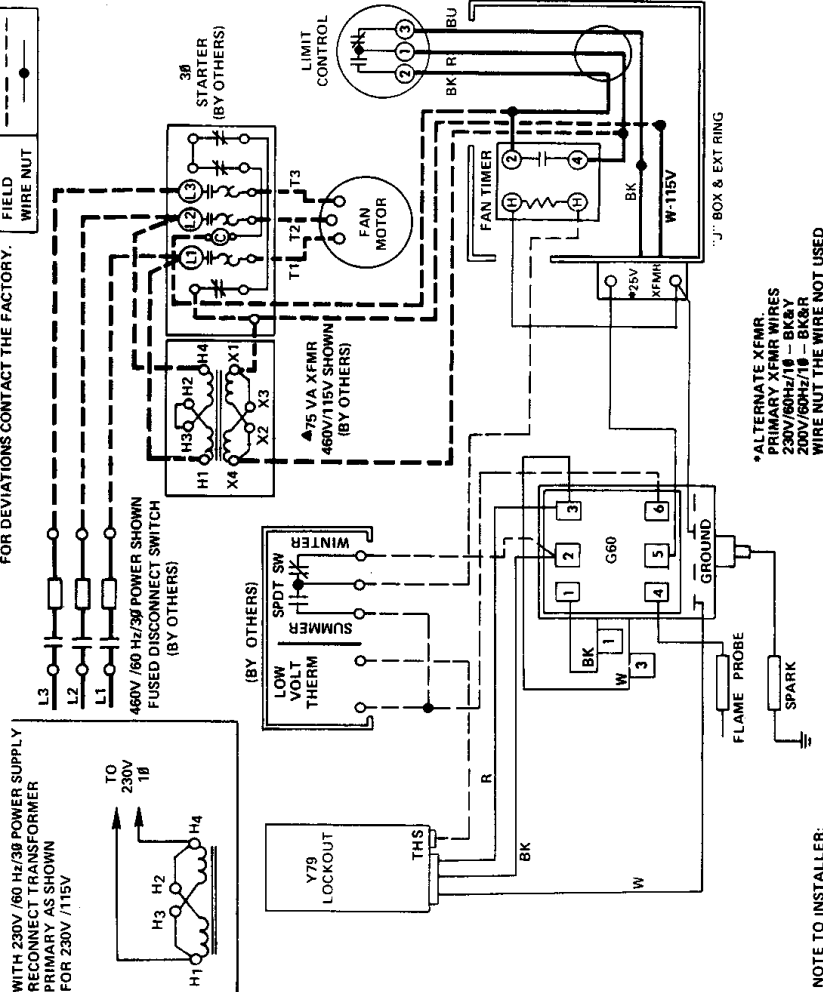
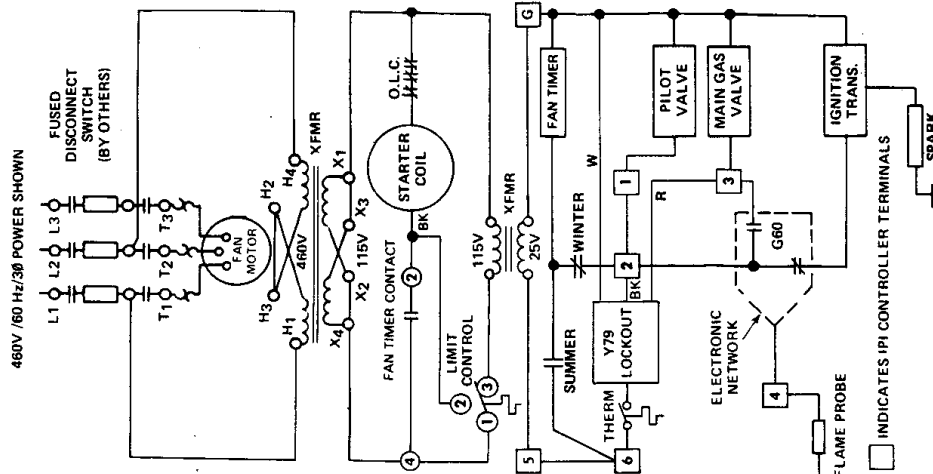
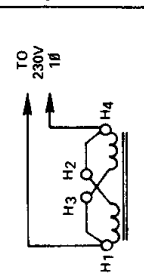


MODINE 6-430 WIRING DIAGRAM MODELS PA, BA

WIRING LEGEND	
FACTORY	LOW
FIELD	---
WIRE NUT	●

CAUTION
FAILURE TO WIRE THIS UNIT ACCORDING
TO THIS WIRING DIAGRAM MAY RESULT
IN INJURY TO THE INSTALLER OR USER.
FOR DEVIATIONS CONTACT THE FACTORY.

WITH 230V / 60 Hz/3Ø POWER SUPPLY
RECONNECT TRANSFORMER
PRIMARY AS SHOWN
FOR 230V / 115V



*ALTERNATE XFMR.
PRIMARY XFMR WIRES
230V/60Hz/1Ø - BK&Y
200V/60Hz/1Ø - BK&R
WIRE NUT THE WIRE NOT USED

▲ TRANSFORMER NOT REQUIRED WITH 230V/3Ø
POWER SUPPLY AND 230V/25V CONTROL TRANSFORMER

NOTE TO INSTALLER:
ATTACH THIS DIAGRAM NEAR HEATER.
ALL WIRING MUST COMPLY WITH NATIONAL
ELECTRIC CODE AND ALL LOCAL CODES.
ALL COMPONENTS MUST AGREE WITH
THEIR RESPECTIVE POWER SOURCE.
USE 105°C WIRE FOR REPLACEMENT.

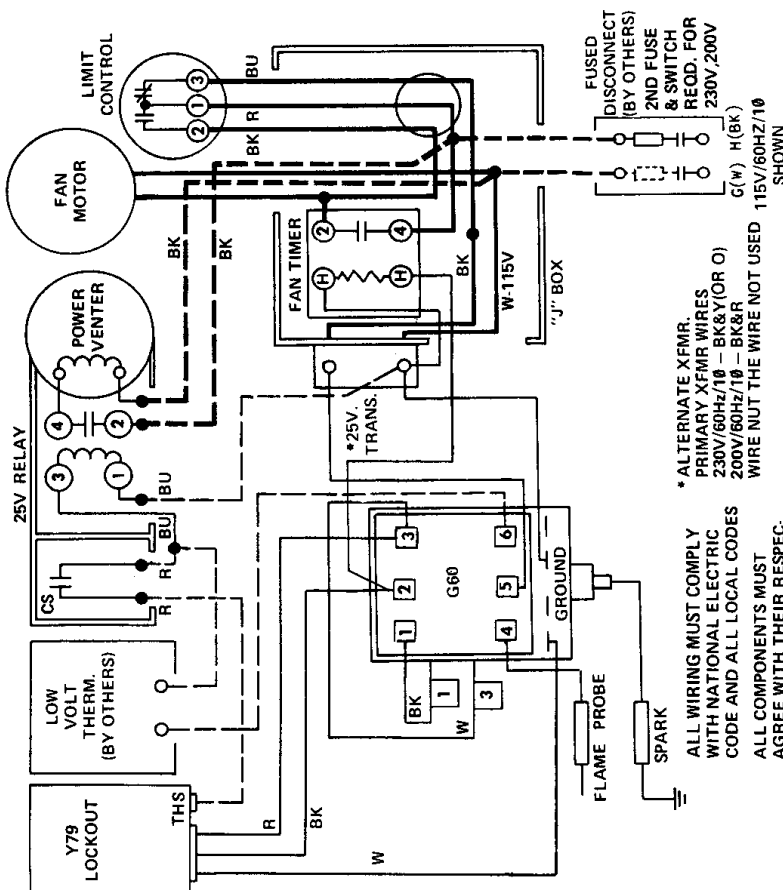
8H6490B10 — Three-phase, intermittent pilot ignition, 100% shut-off,
fan time delay, low-voltage thermostat, summer-winter switch.



MODINE 6-430 WIRING DIAGRAM MODELS PA, BA

WIRING LEGEND	
FACTORY	LINE
FIELD	LOW
WIRE NUT	

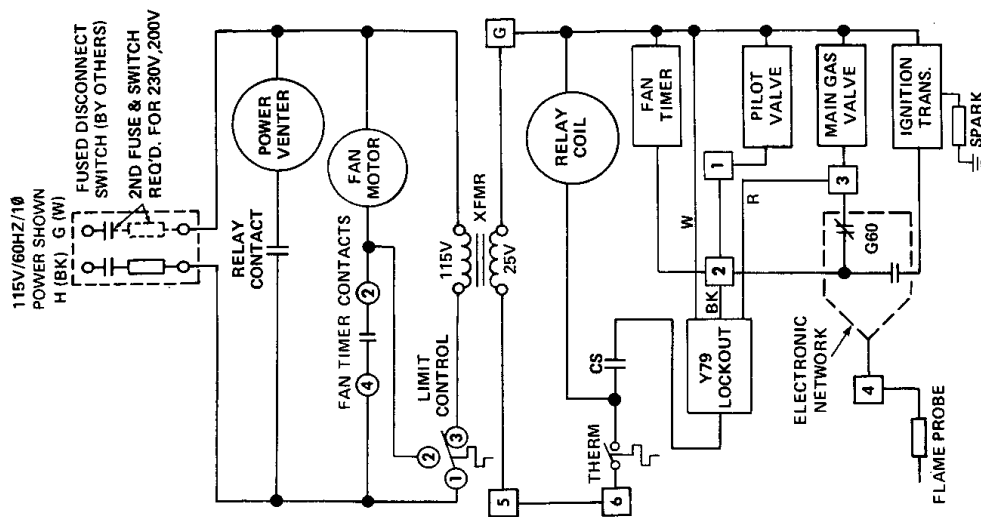
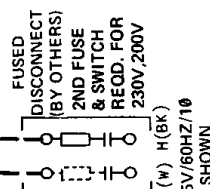
CAUTION
FAILURE TO WIRE THIS UNIT ACCORDING TO THIS WIRING DIAGRAM MAY RESULT IN INJURY TO THE INSTALLER OR USER. FOR DEVIATIONS CONTACT THE FACTORY.



ALL WIRING MUST COMPLY WITH NATIONAL ELECTRIC CODE AND ALL LOCAL CODES. ALL COMPONENTS MUST AGREE WITH THEIR RESPECTIVE POWER SOURCE. USE 105°C WIRE FOR REPLACEMENT.

NOTE TO INSTALLER: ATTACH THIS DIAGRAM NEAR HEATER

* ALTERNATE XFMR. PRIMARY XFMR WIRES 230V/60HZ/10 - BK&Y (OR O) 200V/60HZ/10 - BK&R WIRE NUT THE WIRE NOT USED 115V/60HZ/10 SHOWN

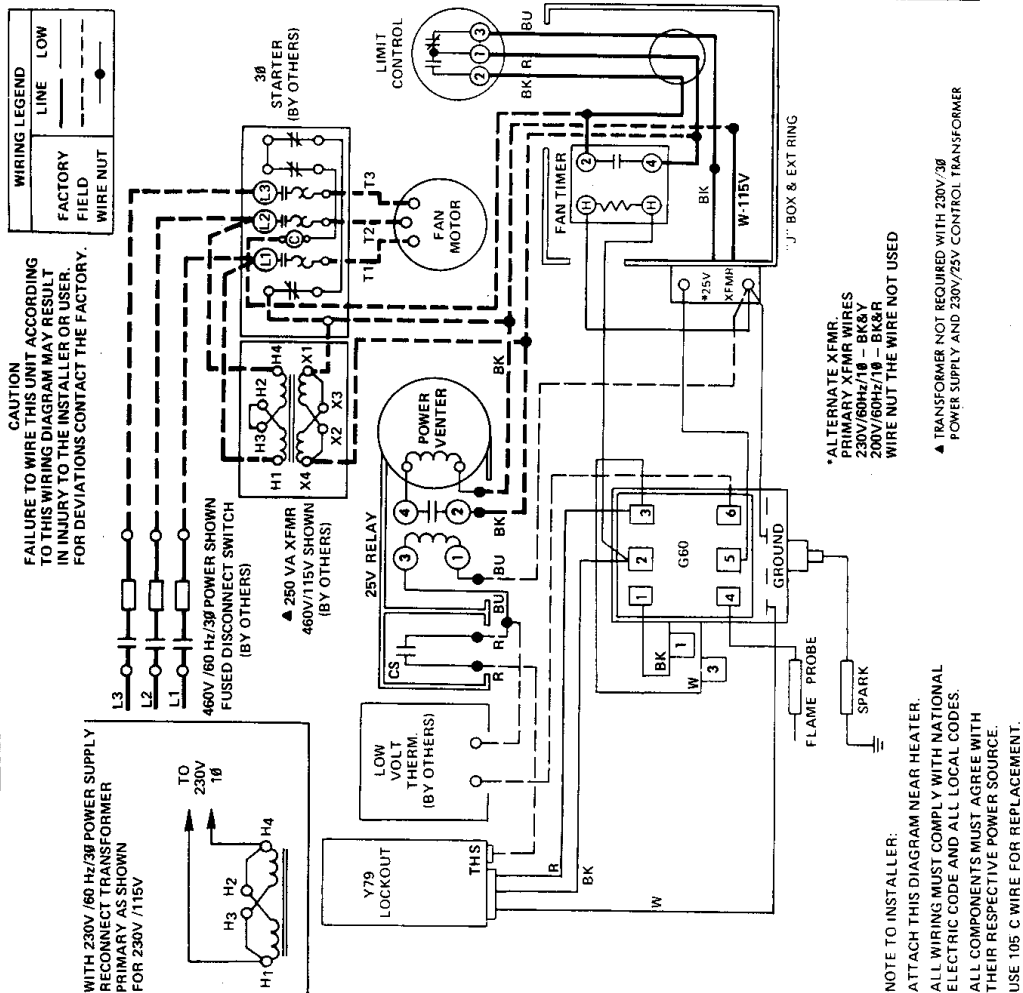


□ INDICATES IPI CONTROLLER TERMINAL

8H6490B21 — Single-phase, intermittent pilot ignition, 100% shut-off, fan-time delay, low-voltage thermostat low-voltage controlled power venter.



MODINE 6-430 WIRING DIAGRAM MODELS PA, BA



8H6490B21 — Three-phase, intermittent pilot ignition, 100% Shut-off, fan time delay, low-voltage thermostat low-voltage controlled power venter.