



Wiring Diagrams

INDEX

UNIT	UNIT VOLTAGE*	TYPE	NUMBER	FIG. NO.
48LJD/LJE008-014	208/230, 460	Schematic	50DK504683	1
	575	Schematic	50DK504684	2
	All	Component Arrangement	50DK504696	3
50LJ008-012	208/230	Schematic	50DK504685	4
50LJ014	208/230	Schematic	50DK504687	5
50LJ008-014	460	Schematic	50DK504685	4
50LJ008-014	575	Schematic	50DK504689	6
50LJ008-014	All	Component Arrangement	50DK504697	7
50LJQ008,012	208/230	Schematic	50DK504690	8
	460	Schematic	50DK504691	9
	575	Schematic	50DK504692	10
	All	Component Arrangement	50DK504698	11

* All units are 3 phase and 60 Hz

ELECTRIC HEAT

Unit Voltage	Unit Size	Label, Electric Heater (kW)	Number	Fig. No.
208/230	50LJ008,009, 50LJQ008	18 6/24 8	3-05626	12
	50LJ008-014; 50LJQ008,012	7 8/10 4 12 0/16 0	3-05623	13
		24 0/32 0 31 8/42 4	3-05626	12
	50LJ012,014, 50LJQ012	37 5/50.0	3-05626	12
460	50LJ008,009, 50LJQ008	13 9	3-05624	14
	50LJ008-014; 50LJQ008,012	16.5	3-05624	14
		27.8 33.0 41 7	3-05625	15
	50LJ012,014; 50LJQ012	50.0	3-05625	15
575	50LJ008-014, 50LJQ008,012	18 0	3-05624	14
		36.0	3-05625	15
	50LJ012,014; 50LJQ012	54.0	3-05625	15

UNIT	ACCESSORY	FIG. NO.
48/50LJ008-014 and 50LJQ008,012	Accessory Solid State Enthalpy Control	16
	Accessory Differential Enthalpy Control	17
	Accessory Remote Control Panel	18
50LJQ008,012	Accessory Electronic Thermostat	19
48/50LJ008-014	Accessory Electronic Thermostat	20
50LJQ008,012	Accessory Emergency Heat Control Panel, One-Stage Electric Heat	21
	Accessory Emergency Heat Control Panel, 2-Stage Electric Heat	22
48/50LJ008-014	Accessory Time Guard® II Control Circuit	23
50LJQ008,012	Accessory Time Guard II Control Circuit	24

OPERATING SEQUENCE

48LJ Units

COOLING, UNITS WITHOUT ECONOMIZER — When thermostat calls for cooling, terminals G and Y1 are energized. The indoor (evaporator) fan contactor (IFC) and compressor contactor no. 1 (C1) are energized and indoor (evaporator) fan motor (IFM), compressor no. 1 and condenser fan start. The outdoor (condenser) fan motor (OFM) runs continuously while unit is cooling. If the thermostat calls for a second stage of cooling by energizing Y2, compressor contactor no. 2 (C2) is energized and compressor no. 2 starts.

HEATING, UNITS WITHOUT ECONOMIZER — When thermostat calls for heating, terminal W1 is energized, induced-draft relay (IDR) and time delay relay (TDR) are energized and burner ignition sequence begins. The IFC is energized in 20 to 40 seconds and the IFM starts. If equipped for 2 stages of heat, when additional heat is needed W2 is energized and the high-fire solenoid on the main gas valve (MGV) is energized.

When the thermostat is satisfied and W1 is deenergized, the IFM stops.

COOLING, UNITS WITH ECONOMIZER — When the outdoor ambient temperature is above the outdoor-air thermostat (OAT) or enthalpy control (EC) setting and the thermostat calls for cooling, terminals G and Y1 are energized. The IFC is energized and the economizer damper blade opens to the minimum position, the evaporator-fan motor, compressor no. 1 and the condenser fan start. If thermostat calls for a second stage of cooling by energizing Y2, compressor contactor no. 2 (C2) is energized and compressor no. 2 starts.

If the outdoor ambient temperature is below the OAT setting and the thermostat calls for cooling, the IFC is energized, the evaporator fan is started and the economizer modulates open. The economizer acts as the first stage of cooling, providing free cooling with outdoor air. The damper blade opens for 5 seconds and stops for 30 seconds until fully open. The position of the damper blade is determined by the discharge temperature sensor.

If outdoor air alone cannot satisfy the cooling requirements of the conditioned space, Y2 on the thermostat is energized and compressor no. 1 starts.

As conditioned-space temperature approaches the thermostat's cooling set point, the mechanical cooling stage cycles off. After mechanical cooling shuts off, the economizer modulates to the minimum position.

HEATING, UNITS WITH ECONOMIZER — Upon a call for heat through W1, the IDR is energized to start the induced draft motor. The main burner lights, the IFC energizes to start the evaporator fan, and the economizer damper blade opens to the minimum position. If the two-position damper is used, the outdoor-air damper opens to the minimum position whenever the evaporator fan runs.

After W1 is deenergized, the IDM stops.

As space temperature approaches the heating temperature set point, heating stage cycles off. Economizer or two-position damper returns to a fully closed position when fan shuts off.

50LJ Units

COOLING, UNITS WITHOUT ECONOMIZER — When thermostat calls for cooling, terminals G and Y1 are energized. The indoor (evaporator) fan contactor (IFC) and compressor contactor no. 1 (C1) are energized and evaporator-fan motor, compressor no. 1, and condenser fan start. The condenser-fan motor runs continuously while unit is cooling. If the thermostat calls for a second stage of cooling by energizing Y2, compressor contactor no. 2 (C2) is energized and compressor no. 2 starts.

HEATING, UNITS WITHOUT ECONOMIZER — Upon a call for heating through terminal W1, IFC and heater contactor (HC) no. 1 are energized. On unit equipped for 2 stages of heat, when additional heat is needed, HC is energized through W2.

COOLING, UNITS WITH ECONOMIZER — When the outdoor ambient temperature is above the outdoor-air thermostat (OAT) or enthalpy control (EC) setting and the thermostat calls for cooling, terminals G and Y1 are energized. The IFC is energized and the economizer damper blade opens to the minimum position.

If the outdoor ambient temperature is below the OAT setting and the thermostat calls for cooling, the IFC is energized, the evaporator fan is started, and the economizer modulates open. The economizer acts as the first stage of cooling, providing free cooling with the outdoor air. The damper blade opens for 5 seconds and stops for 30 seconds until fully open. The position of the damper blade is determined by the discharge-temperature sensor.

If outdoor air alone cannot satisfy the cooling requirements of the conditioned space, Y2 on the thermostat is energized and compressor no. 1 starts.

As conditioned-space temperature approaches the thermostat's cooling set point, the mechanical cooling stage cycles off. After mechanical cooling shuts off, the economizer modulates to the minimum position.

HEATING, UNITS WITH ECONOMIZER — Upon a call for heat through W1, the IFC energizes to start the evaporator fan and the economizer damper blade opens to the minimum position. If the two-position damper is used, the outdoor-air damper opens to the minimum position whenever the evaporator fan runs. If unit is equipped with 2 stages of heat, when additional heat is needed, a call is made through W2.

As space temperature approaches the heating temperature set point, heating stages cycle off. Economizer or two-position damper returns to a fully closed position.

50LJQ Units

COOLING — With accessory economizer — Upon a request for cooling from the space thermostat, terminals Y1 and G will be energized with 24 v. As a result, the indoor-fan contactor (IFC) and indoor-fan motor (IFM) will be energized and the economizer damper blade will open to minimum position. Note that if the indoor fan is on when the space thermostat calls for cooling, terminal G is already energized and the economizer damper blade is at minimum position.

If the outdoor-air temperature is below the outdoor-air thermostat (OAT) setting, then the position of the damper blade will be determined by the temperature of the discharge air as sensed by the discharge-air thermistor (DAT). The damper blade will slide open for 5 seconds, and rest for 30 seconds until the proper discharge-air temperature is obtained. The damper blade will modulate to different positions to maintain this discharge-air temperature.

If the thermostat calls for a second stage of cooling by supplying 24 v to Y2, the outdoor-fan contactor (OFC) and compressor contactor no. 1 (C1) will be energized, which will bring on the outdoor fan and compressor no. 1, respectively.

When the thermostat is satisfied, Y2 will be deenergized first, which will deenergize the outdoor fan and compressor no. 1. When the indoor fan is deenergized, the economizer will return to a fully closed position.

If the outdoor-air temperature is above the OAT setting, the economizer will move to the minimum position and the unit will operate as described in Cooling, Units Without Economizer section below.

Without accessory economizer — Upon a request for cooling from the space thermostat, terminals Y1 and G will be energized with 24 v. As a result, the indoor-fan contactor (IFC), outdoor-fan contactor (OFC), and compressor contactor no. 1 (C1) will be energized, which in turn will energize the indoor fan, outdoor fan, and compressor no. 1, respectively.

If the space thermostat calls for a second stage of cooling by supplying 24 v to Y2, compressor contactor no. 2 (C2) will be energized, thus energizing compressor no. 2.

When the space thermostat is satisfied, Y2 will be deenergized first, which will deenergize compressor no. 2.

Upon a further drop in space temperature, Y1 will be deenergized which will deenergize compressor no. 1, and the outdoor and indoor fans.

HEATING — Upon a request for heating from the space thermostat, terminal W1 will be energized with 24 v. On units with economizer, the economizer damper blade will move to minimum position regardless of the outdoor-air temperature, and the unit will operate as described in Cooling, Without Accessory Economizer section above. The IFC, OFC, C1, and C2 will be energized. The reversing valves switch position and the indoor fan, outdoor fan, compressor no. 1, and compressor no. 2 are energized.

If the space temperature continues to fall while W1 is energized, W2 will be energized with 24 v, and the heater contactor(s) (HC) will be energized, which will energize the electric heater(s).

When the space thermostat is satisfied, W2 will be deenergized first, and the electric heater(s) will be deenergized.

Upon a further rise in space temperature, W1 will be deenergized, and the reversing valve solenoids (RVS1 and RVS2) will be energized. On units with economizer, the economizer damper blade will move to the fully closed position.

DEFROST — When the temperature of the outdoor coil drops below 28 F as sensed by the defrost thermostat (DFT2), and the defrost timer is at the end of a timed period (adjustable at 30, 50, or 90 minutes), RVS1 and RVS2 are energized and the OFC is deenergized. This switches the position of the reversing valves and shuts off the outdoor fan. The electric heaters (if installed) will be energized. On units with economizer, the economizer damper blade will move to the fully closed position.

The unit continues to defrost until the coil temperature as measured by DFT2 reaches 65 F, or the duration of defrost cycle completes a 10-minute period.

During the defrost mode, if circuit 1 defrosts first, RVS1 will oscillate between heating and cooling modes until the defrost mode is complete.

At the end of the defrost cycle, the electric heaters (if installed) will be deenergized; the reversing valves switch and the outdoor-fan motor will be energized. On units with economizer, the economizer damper blade will move to the minimum position. The unit will now operate in the heating mode.

If the space thermostat is satisfied during a defrost cycle, the unit will continue in the defrost mode until the time or temperature constraints are satisfied.

LEGEND (Fig. 1 – 11, 21 and 22)

AHA	— Adjustable Heat Anticipator
AWG	— American Wire Gage
C	— Contactor, Compressor
CAP	— Capacitor
CB	— Circuit Breaker
CC	— Cooling Compensator
CH	— Crankcase Heater
CLO	— Compressor Lockout
COM	— Common
COMP	— Compressor Motor
CV	— Constant Volume
DAT	— Discharge-Air Thermistor
DB	— Defrost Board
DFT	— Defrost Thermostat
EC	— Enthaply Control
ECON	— Economizer
EMC/EMFC	— Energy Management Closed (Economizer)
EMFC.L	— Energy Management, Fully-Closed (Two-Position Damper)
EMO/EMFO	— Energy Management Open (Economizer)
EQUIP	— Equipment
FP	— Flare Probe
FPT	— Freeze Protection Thermostat
FU	— Fuse
GND	— Ground
HC	— Heater Contactor (Strip Heat)
HP	— Heat Pump
HPS	— High-Pressure Switch
HR	— Holding Relay (48LJ): Heater Relay (50LJQ)
I	— Ignitor
ICP	— Ignitor Control Pack
IDM	— Induced-Draft Motor
IDR	— Induced-Draft Relay
IFC	— Indoor-Fan Contactor
IFM	— Indoor-Fan Motor
IFR	— Indoor Fan Relay
LPS	— Low-Pressure Switch/Loss of Charge
LS	— Limit Switch
LSM	— Limit Switch (Manual Reset)
MGV	— Main Gas Valve
MTR	— Motor
MV	— Main Valve
NEC	— National Electrical Code
NO	— Normally Open
OAT	— Outdoor-Air Thermostat
OFC	— Outdoor-Fan Contactor
OFM	— Outdoor-Fan Motor
OFR	— Outdoor-Fan Relay
P	— Plug

PL	— Plug Assembly
PS	— Pressure Switch
QT	— Quadruple Terminal
RES	— Resistor Switch
RS	— Rollout Switch
RVS	— Reversing Valve Solenoid
SEN	— Sensor
SW	— Switch
SW1	— Switch Fully Open
SW2	— Switch Fully Closed
SW3	— Switch Min. Vent Position
SW4	— Switch Max. Vent Position
TB	— Terminal Block
TC	— Thermostat, Cooling
TDR	— Time Delay Relay
TH	— Thermostat, Heating
TL	— Timer Logic
TRAN	— Transformer

	Field Splice
	Marked Wire
	Terminal (Marked)
	Terminal (Unmarked)
	Terminal Block
	Terminal Econ Two-Position Board
	Terminal DB Board
	Splice
	Splice (Marked)
	Factory Wiring
	Field Control Wiring
	Field Power Wiring
	Accessory or Optional Wiring
	To indicate common potential only. Not to represent wiring

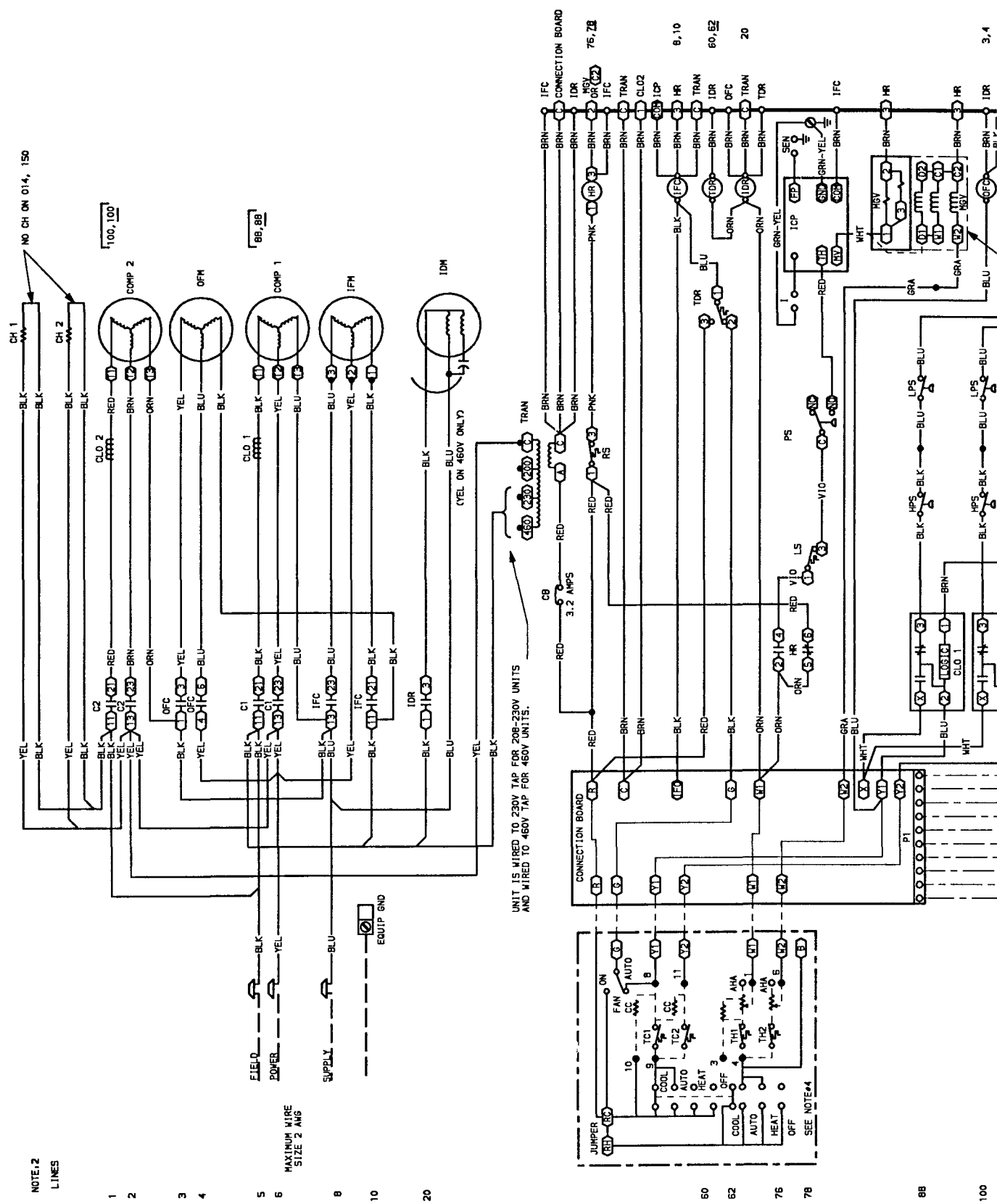
NOTES FOR FIG. 1 – 11

1. If any of the original wire furnished must be replaced, it must be replaced with type 90 C wire or its equivalent.
2. Numbers indicate the line location of contacts. A bracket over 2 numbers signifies single-pole, double-throw contacts. An underlined number signifies a normally-closed contact. Plain numbers (no lines) signify a normally-open contact.
3. Three-phase motors are protected under primary single-phasing conditions.
4. 48/50LJ; 208/230v, 460v and 50LJQ units:
Thermostat: HH07AT172 and P272-2783
Subbase: HH93AZ176 and HH93AZ178 and P272-1882 (and 1883, on LJQ units)

48/50LJ, 575v units:
Thermostat: HH07AT170,172,174 and P272-2783
Subbase: HH93AZ176,177,178,179 and P272-1882

5. For 48LJ units and for 50LJ units, set heat anticipator at 1.0 amp
For 50LJQ units, set heat anticipator settings at 8 amp for first stage and .3 amp for second stage
6. Use copper, copper clad aluminum, or aluminum conductors

SCHEMATIC



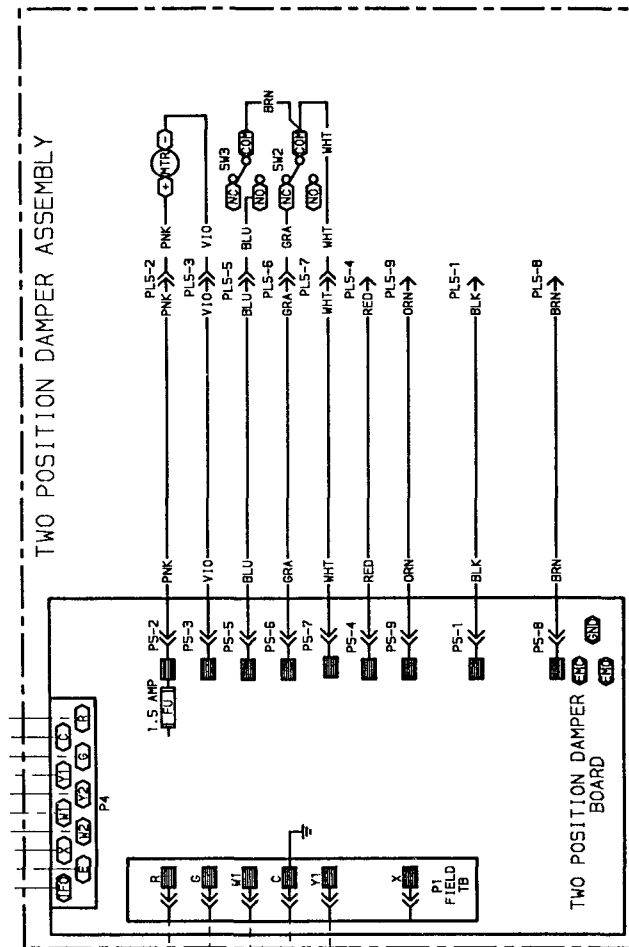
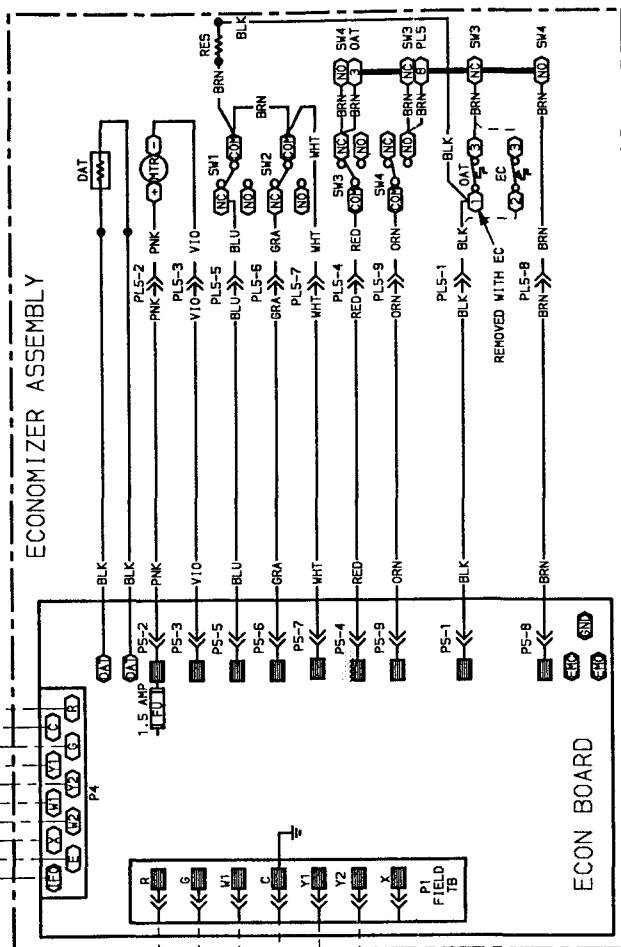
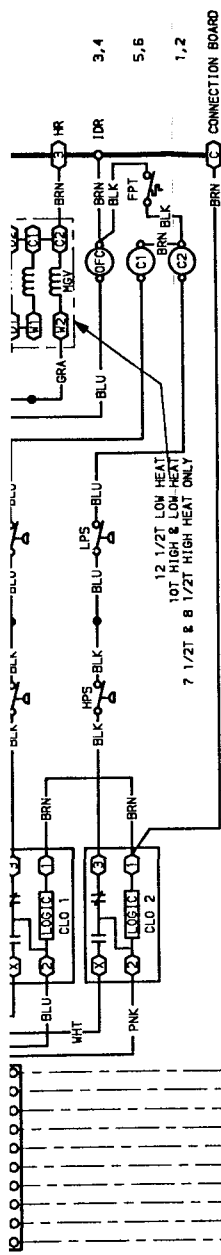


Fig. 1 — Label Diagram, Schematic: 48LJD/LJE008-014,
208/230-3-60 and 460-3-60

NOTE: 2
LINES





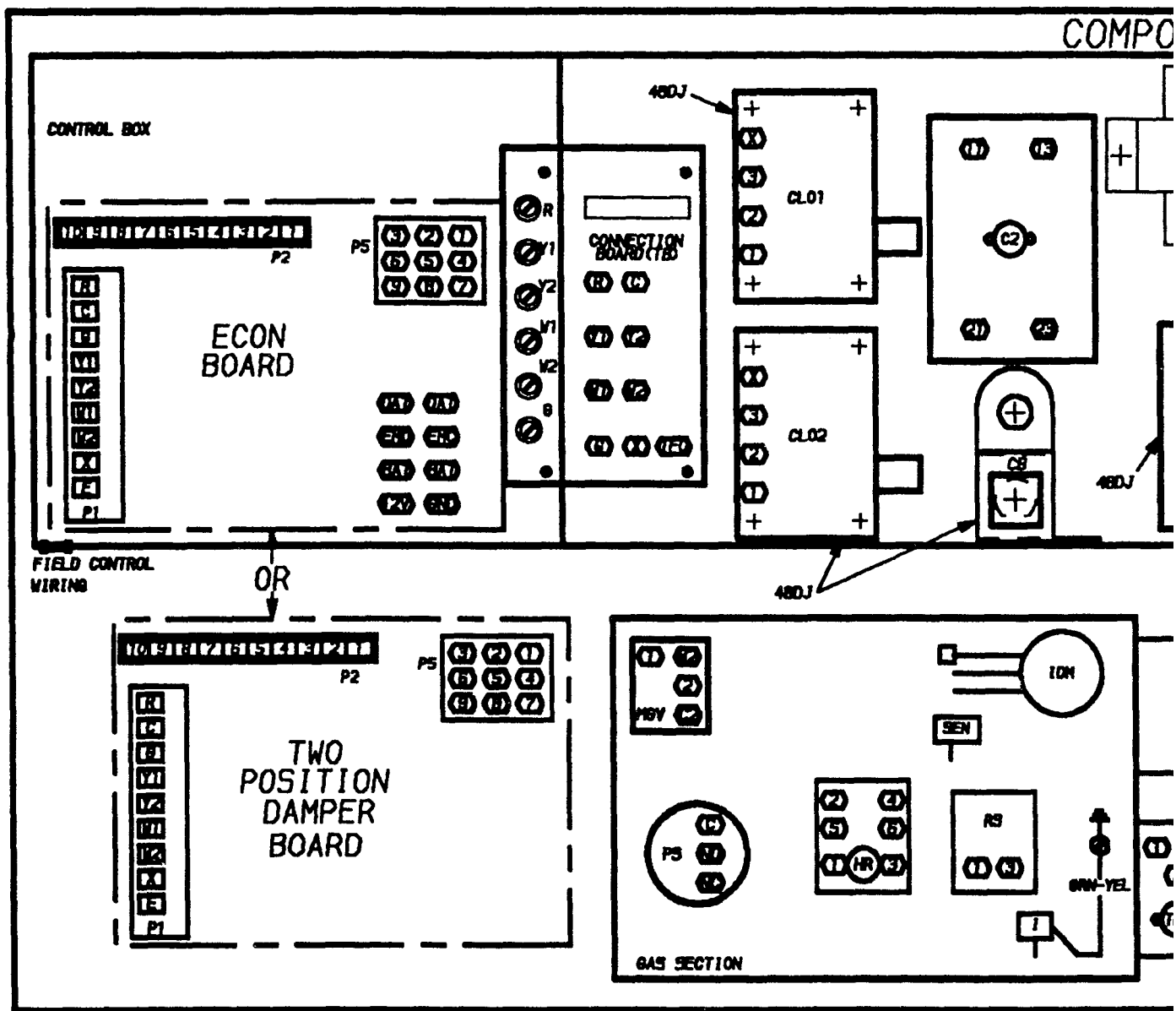
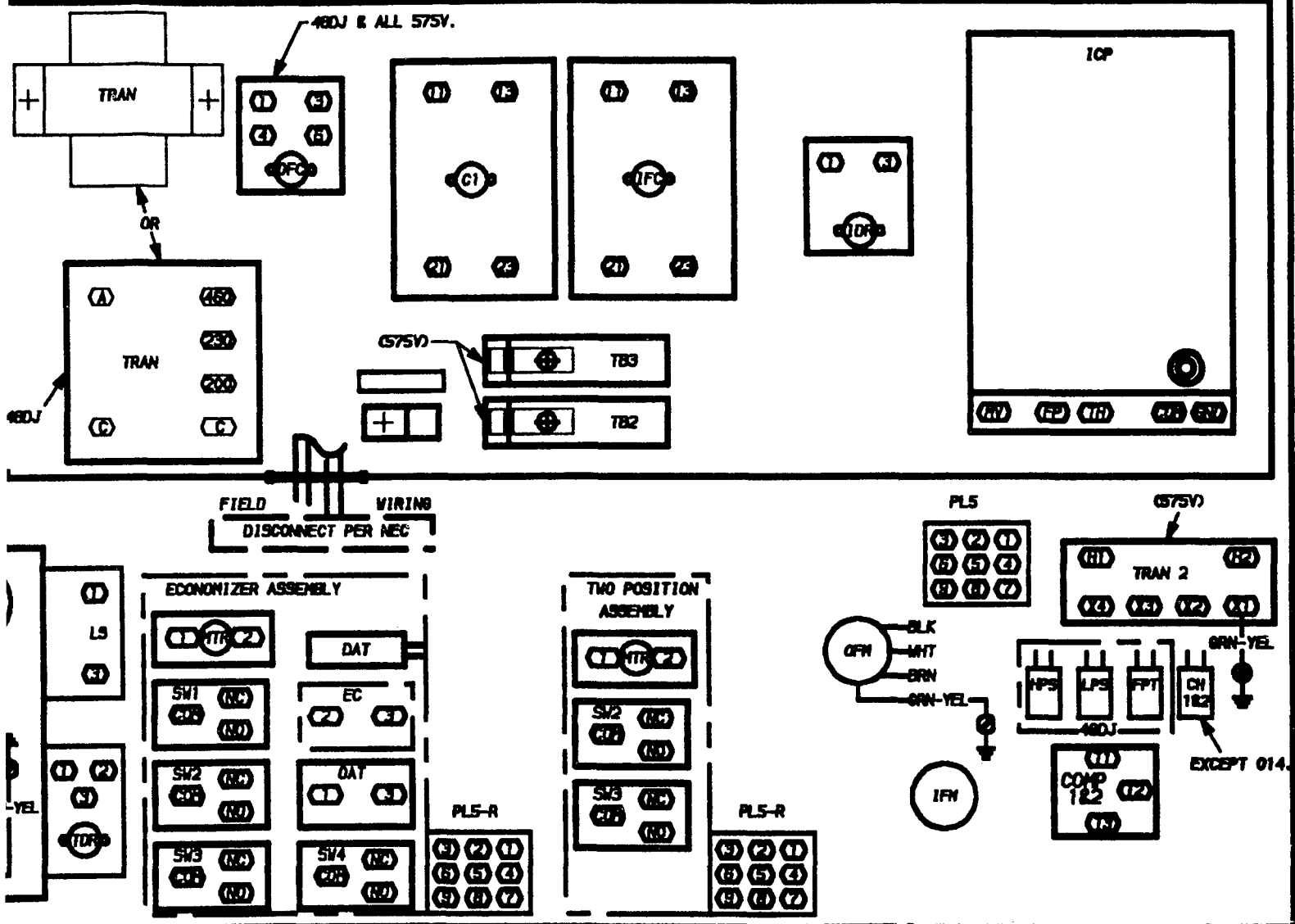
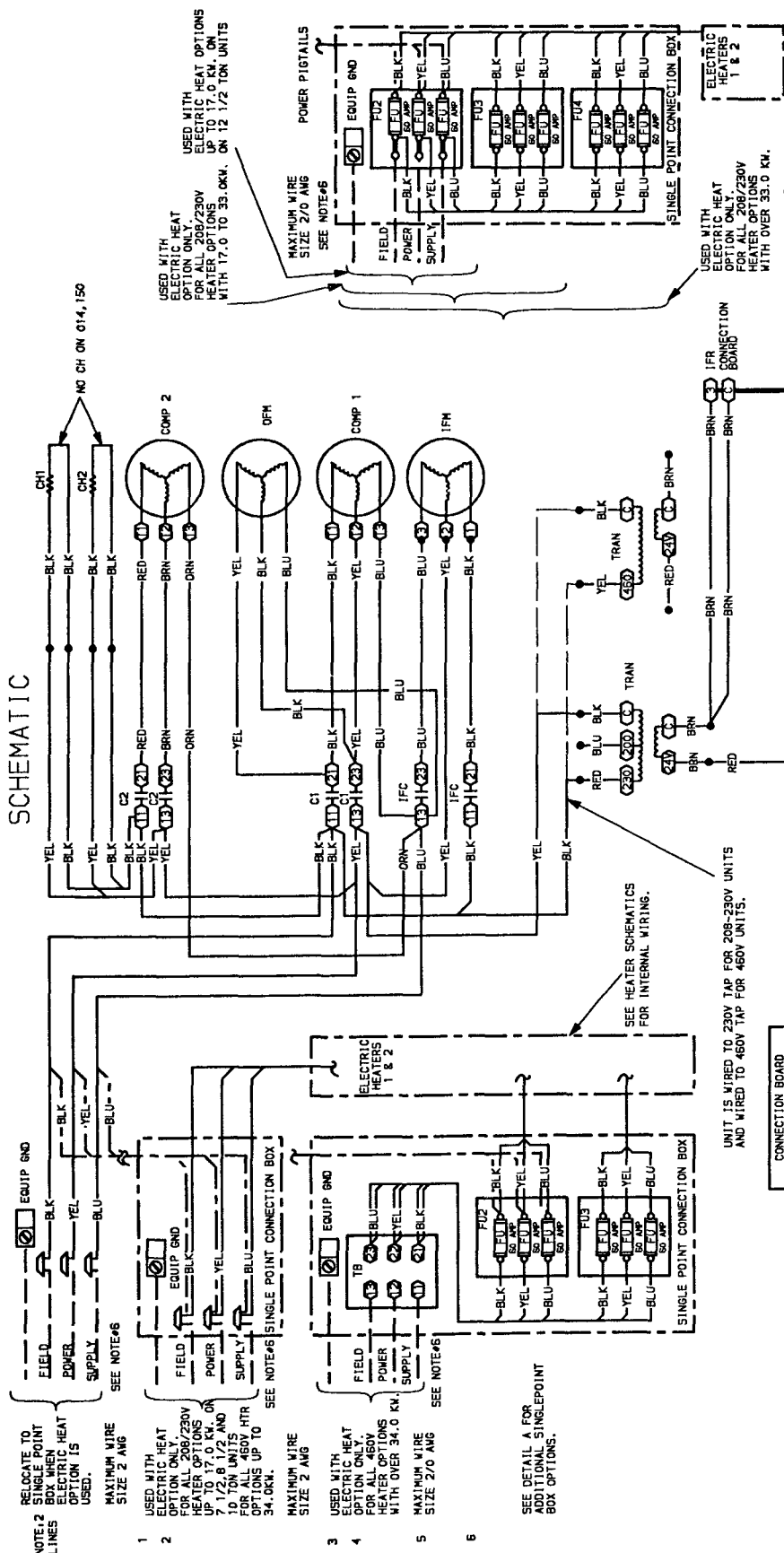


Fig. 3 — Component Arrangement

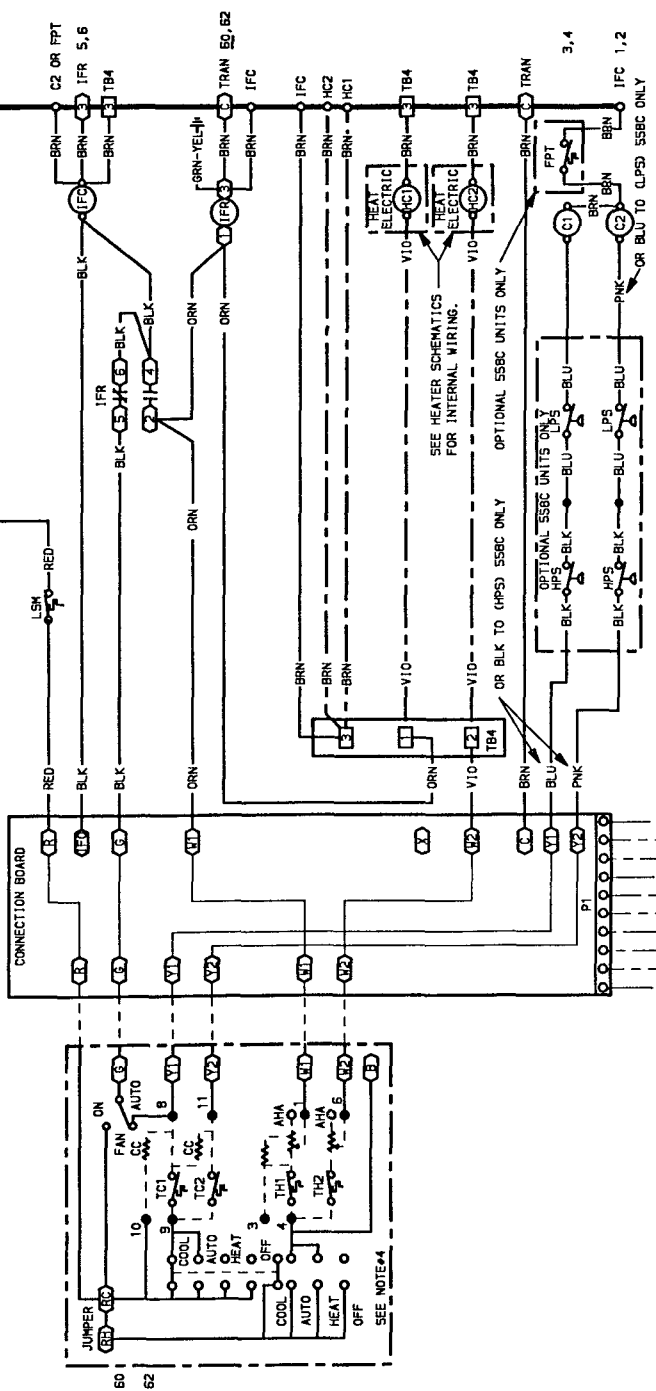
COMPONENT ARRANGEMENT



SCHEMATIC



DETAIL "A"





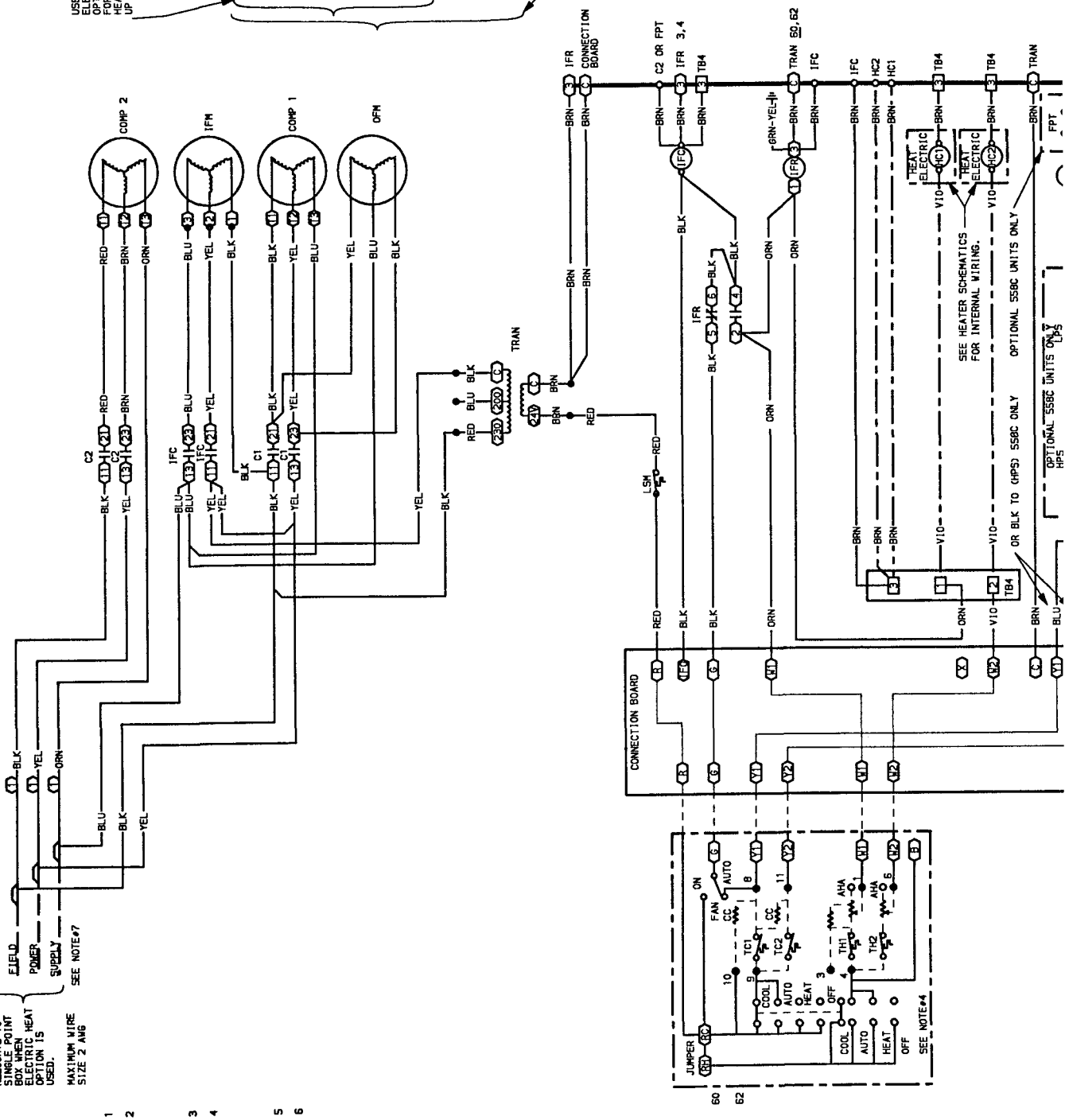
SCHEMATIC

NOTE 2
LINES

RELOCATE TO
SINGLE POINT
BOX WHEN
ELECTRIC HEAT
OPTION IS
USED.
MAXIMUM WIRE
SIZE 2 AWG

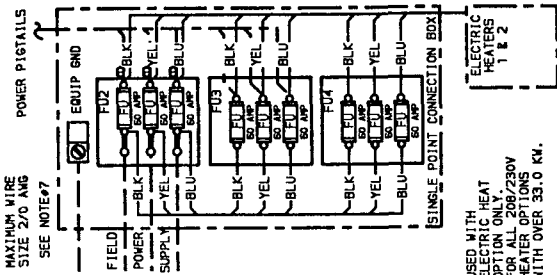
SEE NOTE#7

EQUIP GND



USED WITH
ELECTRIC HEAT
OPTION ONLY
FOR ALL 208/230V
HEATER OPTIONS
UP TO 10.33 KW.

MAXIMUM WIRE
SIZE 2/0 AWG
SEE NOTE#7



USED WITH
ELECTRIC HEAT
OPTION ONLY
FOR ALL 208/230V
HEATER OPTIONS
WITH OVER 33.0 KW.

MAXIMUM WIRE
SIZE 2/0 AWG

DETAIL A

ALTERNATE SINGLE POINT BOX OPTIONS.

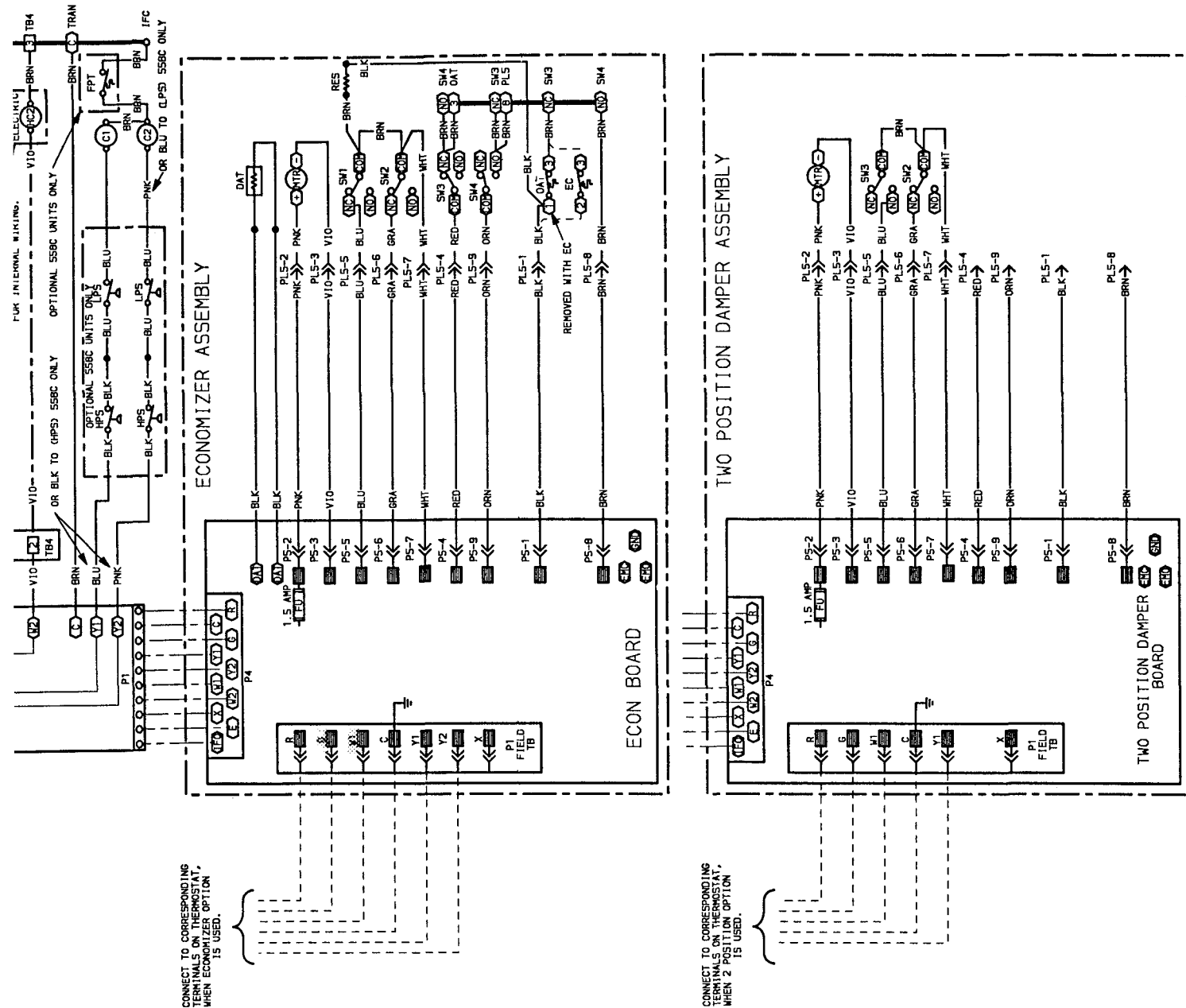


Fig. 5 — Label Diagram, Schematic; 50LJ014, 208/230-3-60



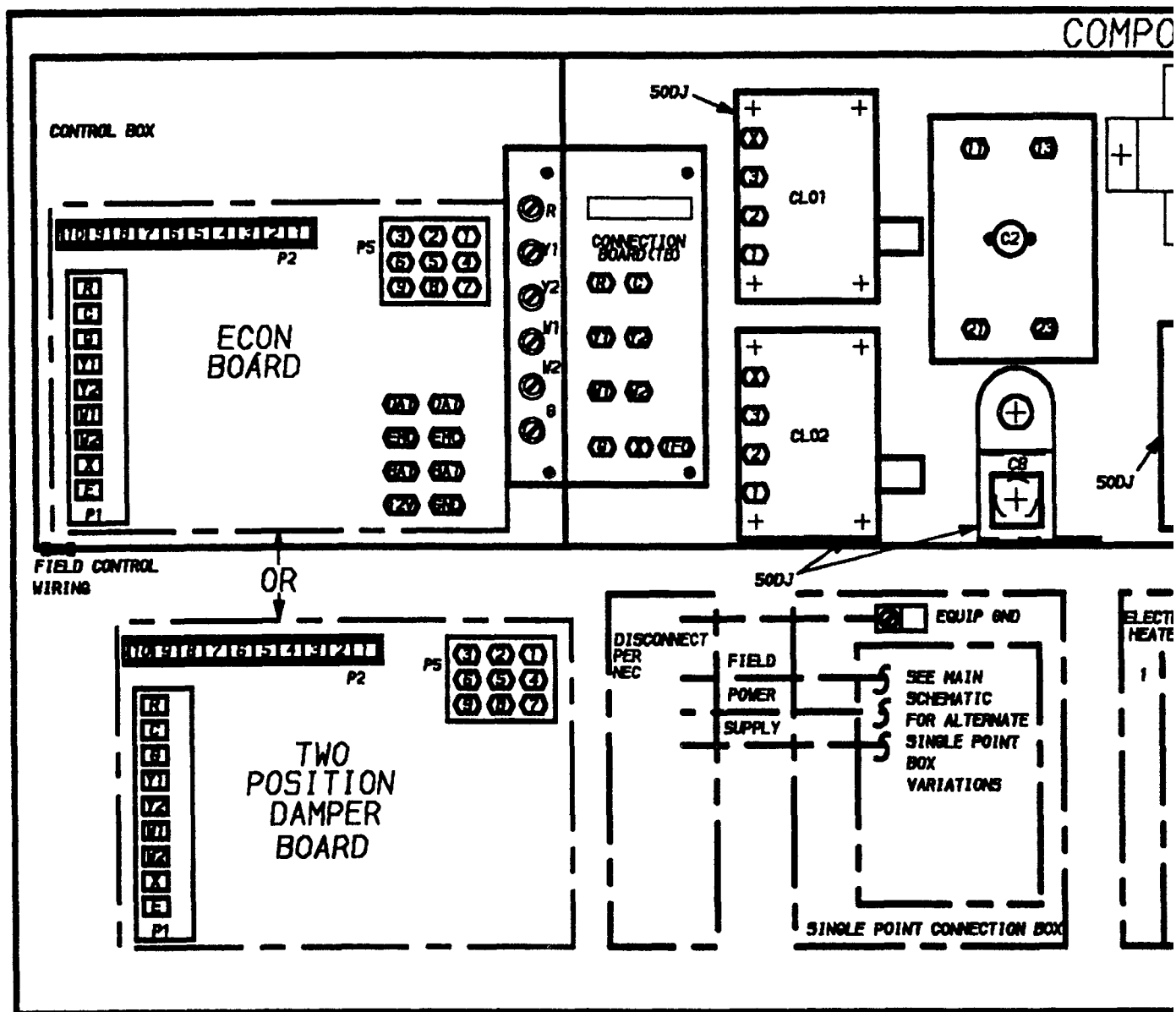


Fig. 7 — Component

COMPONENT ARRANGEMENT

500J & ALL 575V.

TRAN

OR

TRAN

500J

575V

TB3

TB2

FIELD DISCONNECT PER NEC

ECONOMIZER ASSEMBLY

SW1

SW2

SW3

SW4

DAT

EC

PL5-R

TWO POSITION ASSEMBLY

SW1

SW2

SW3

PL5

IFN

TRAN 2

COMP 125

PL5

TB4

GRN-YEL

575V

EXCEPT SH-4

ELECTRIC HEATERS

1 2

Component Arrangement; 50LJ008-014

SCHEMATIC

NOTE: 2
RELocate TO
SINGLE POINT
BOX WHEN
ELECTRIC HEAT
OPTION IS
USED.
MAXIMUM WIRE
SIZE 2 ANG
SEE NOTE #7

SEE DETAIL "A" AND "B"

MAXIMUM WIRE SIZE 350 MCM.

SEE NOTE #6

8
10
14
16
20
22
26
28

SINGLE POINT BOX
WIRING FOR UNITS
WITH 230 VOLT
NAMEPLATE RKA OVER
173.5 AMPS.

FIELD
POWER
SUPPLY

FIELD
POWER
SUPPLY

FIELD
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SUPPLY

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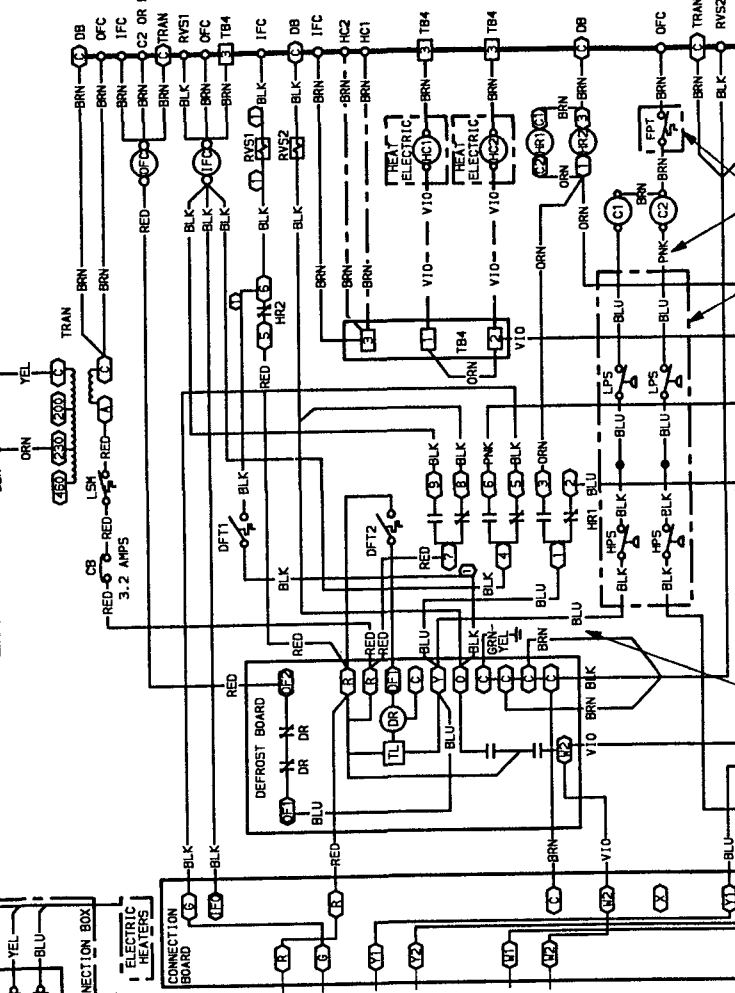
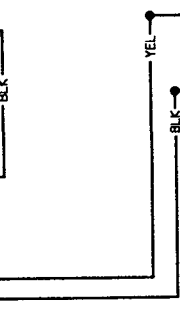
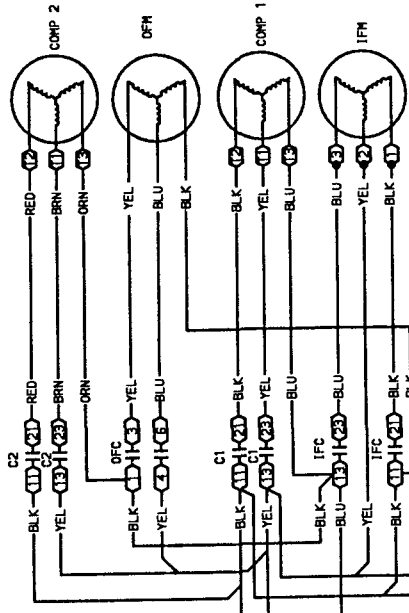
FIELD
POWER
SUPPLY

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FIELD
POWER
SUPPLY



DEFROST BOARD

CONNECTION BOARD

SINGLE POINT CONNECTION BOX

ELECTRIC HEATERS

SEE NOTE #4

SINGLE POINT BOX WIRING
FOR UNITS WITH 230 VOLT
NAMEPLATE RKA UNDER
110 AND 173.5 AMPS.

SINGLE POINT BOX WIRING
FOR UNITS WITH 230 VOLT
NAMEPLATE RKA UNDER 110 AMPS.

MAXIMUM WIRE
SIZE 270 ANG
SEE NOTE #6

POWER PISTALS

EQUIP GND

FIELD

POWER

SUPPLY

FIELD

POWER

SUPPLY

FIELD

POWER

SUPPLY

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SUPPLY

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POWER

SUPPLY

FIELD

POWER

22

25, 26

28

50

8, 10

20, 22

DETAIL "A"

SEE HEATER SCHEMATICS
FOR INTERNAL WIRING.

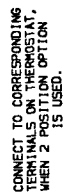


Fig. 8 — Label Diagram, Schematic; 50LJQ008-012, 208/230-3-60



Fig. 9 — Label Diagram, Schematic; 50LJQ008-012, 460-3-60

SCHEMATIC

NOTE 2
LINES
RELocate TO
SINGLE POINT
BOX WHEN
ELECTRIC HEAT
OPTION IS
USED.
MAXIMUM WIRE
SIZE 2 AWG
SEE NOTE #6

8
10
SINGLE POINT BOX
WIRING FOR UNITS
WITH NAMEPLATE MCA
OF 60 AMPS OR LESS
MAXIMUM WIRE
SIZE 2 AWG
SEE NOTE #7

14
16
SINGLE POINT BOX
WIRING FOR UNITS
WITH NAMEPLATE MCA
OF 75 AMPS
MAXIMUM WIRE
SIZE 2/0 AWG
SEE NOTE #6

20
22
SINGLE POINT BOX
WIRING FOR UNITS
WITH NAMEPLATE MCA
OVER 75 AMPS
MAXIMUM WIRE
SIZE 2/0 AWG
SEE NOTE #6

26
28
SINGLE POINT BOX
WIRING FOR UNITS
WITH NAMEPLATE MCA
OVER 75 AMPS
MAXIMUM WIRE
SIZE 2/0 AWG
SEE NOTE #6

30
32
SINGLE POINT BOX
WIRING FOR UNITS
WITH NAMEPLATE MCA
OVER 75 AMPS
MAXIMUM WIRE
SIZE 2/0 AWG
SEE NOTE #6

34
36
SINGLE POINT BOX
WIRING FOR UNITS
WITH NAMEPLATE MCA
OVER 75 AMPS
MAXIMUM WIRE
SIZE 2/0 AWG
SEE NOTE #6

38
40
SINGLE POINT BOX
WIRING FOR UNITS
WITH NAMEPLATE MCA
OVER 75 AMPS
MAXIMUM WIRE
SIZE 2/0 AWG
SEE NOTE #6

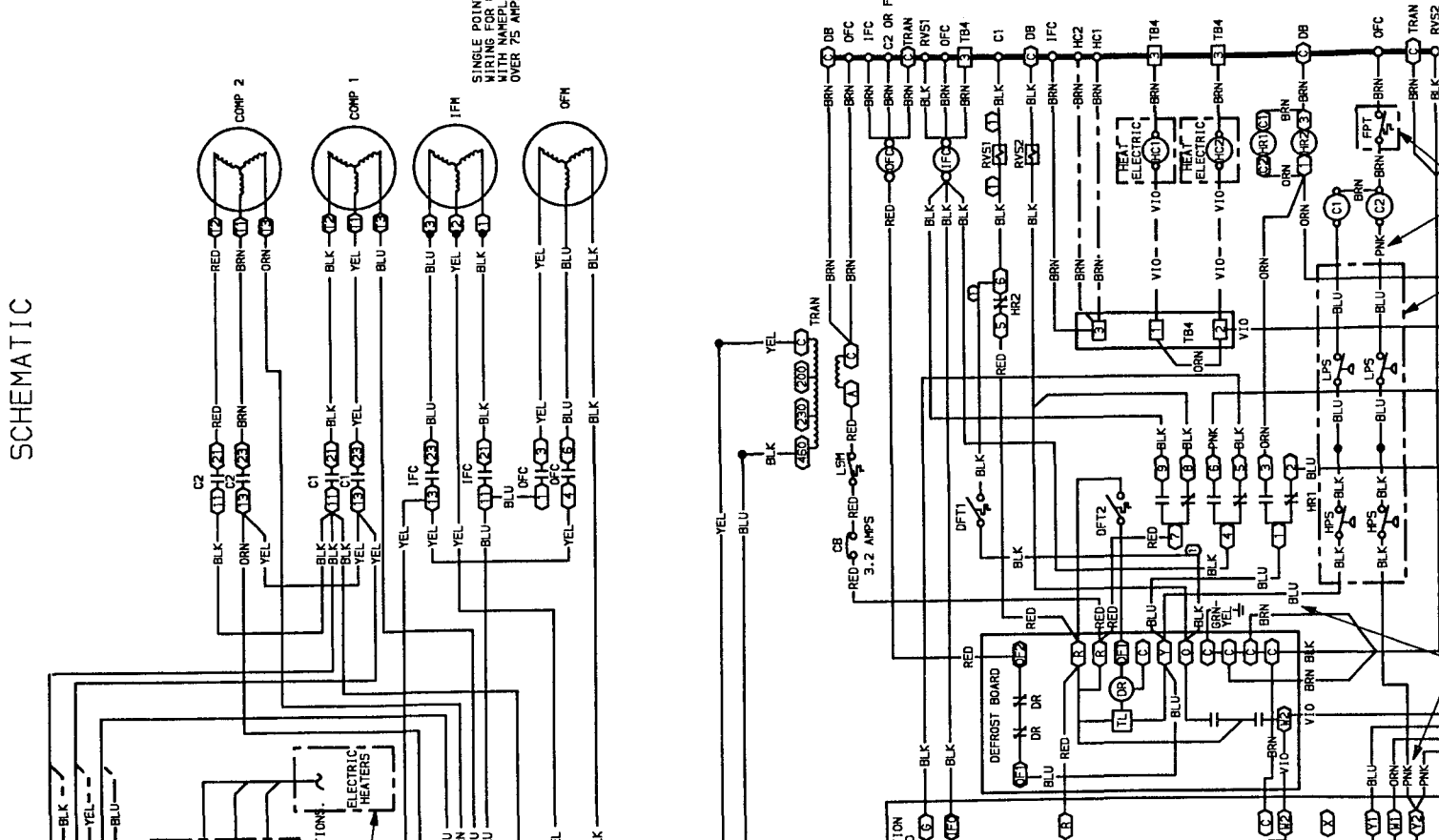
42
44
SINGLE POINT BOX
WIRING FOR UNITS
WITH NAMEPLATE MCA
OVER 75 AMPS
MAXIMUM WIRE
SIZE 2/0 AWG
SEE NOTE #6

46
48
SINGLE POINT BOX
WIRING FOR UNITS
WITH NAMEPLATE MCA
OVER 75 AMPS
MAXIMUM WIRE
SIZE 2/0 AWG
SEE NOTE #6

50
52
SINGLE POINT BOX
WIRING FOR UNITS
WITH NAMEPLATE MCA
OVER 75 AMPS
MAXIMUM WIRE
SIZE 2/0 AWG
SEE NOTE #6

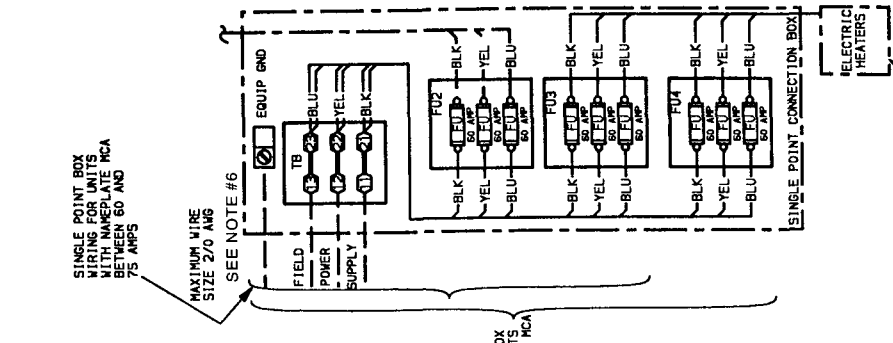
54
56
SINGLE POINT BOX
WIRING FOR UNITS
WITH NAMEPLATE MCA
OVER 75 AMPS
MAXIMUM WIRE
SIZE 2/0 AWG
SEE NOTE #6

58
60
SINGLE POINT BOX
WIRING FOR UNITS
WITH NAMEPLATE MCA
OVER 75 AMPS
MAXIMUM WIRE
SIZE 2/0 AWG
SEE NOTE #6



DETAIL "A"

SEE HEATER SCHEMATICS
FOR INTERNAL WIRING.
ALTERNATE SINGLE POINT BOX OPTIONS.



NOTE 2
LINES
RELocate TO
SINGLE POINT
BOX WHEN
ELECTRIC HEAT
OPTION IS
USED.
MAXIMUM WIRE
SIZE 2 AWG
SEE NOTE #6

8
10
SINGLE POINT BOX
WIRING FOR UNITS
WITH NAMEPLATE MCA
OF 60 AMPS OR LESS
MAXIMUM WIRE
SIZE 2 AWG
SEE NOTE #7

14
16
SINGLE POINT BOX
WIRING FOR UNITS
WITH NAMEPLATE MCA
OF 75 AMPS
MAXIMUM WIRE
SIZE 2/0 AWG
SEE NOTE #6

20
22
SINGLE POINT BOX
WIRING FOR UNITS
WITH NAMEPLATE MCA
OVER 75 AMPS
MAXIMUM WIRE
SIZE 2/0 AWG
SEE NOTE #6

26
28
SINGLE POINT BOX
WIRING FOR UNITS
WITH NAMEPLATE MCA
OVER 75 AMPS
MAXIMUM WIRE
SIZE 2/0 AWG
SEE NOTE #6

30
32
SINGLE POINT BOX
WIRING FOR UNITS
WITH NAMEPLATE MCA
OVER 75 AMPS
MAXIMUM WIRE
SIZE 2/0 AWG
SEE NOTE #6

34
36
SINGLE POINT BOX
WIRING FOR UNITS
WITH NAMEPLATE MCA
OVER 75 AMPS
MAXIMUM WIRE
SIZE 2/0 AWG
SEE NOTE #6

38
40
SINGLE POINT BOX
WIRING FOR UNITS
WITH NAMEPLATE MCA
OVER 75 AMPS
MAXIMUM WIRE
SIZE 2/0 AWG
SEE NOTE #6

42
44
SINGLE POINT BOX
WIRING FOR UNITS
WITH NAMEPLATE MCA
OVER 75 AMPS
MAXIMUM WIRE
SIZE 2/0 AWG
SEE NOTE #6

46
48
SINGLE POINT BOX
WIRING FOR UNITS
WITH NAMEPLATE MCA
OVER 75 AMPS
MAXIMUM WIRE
SIZE 2/0 AWG
SEE NOTE #6

50
52
SINGLE POINT BOX
WIRING FOR UNITS
WITH NAMEPLATE MCA
OVER 75 AMPS
MAXIMUM WIRE
SIZE 2/0 AWG
SEE NOTE #6

54
56
SINGLE POINT BOX
WIRING FOR UNITS
WITH NAMEPLATE MCA
OVER 75 AMPS
MAXIMUM WIRE
SIZE 2/0 AWG
SEE NOTE #6

58
60
SINGLE POINT BOX
WIRING FOR UNITS
WITH NAMEPLATE MCA
OVER 75 AMPS
MAXIMUM WIRE
SIZE 2/0 AWG
SEE NOTE #6

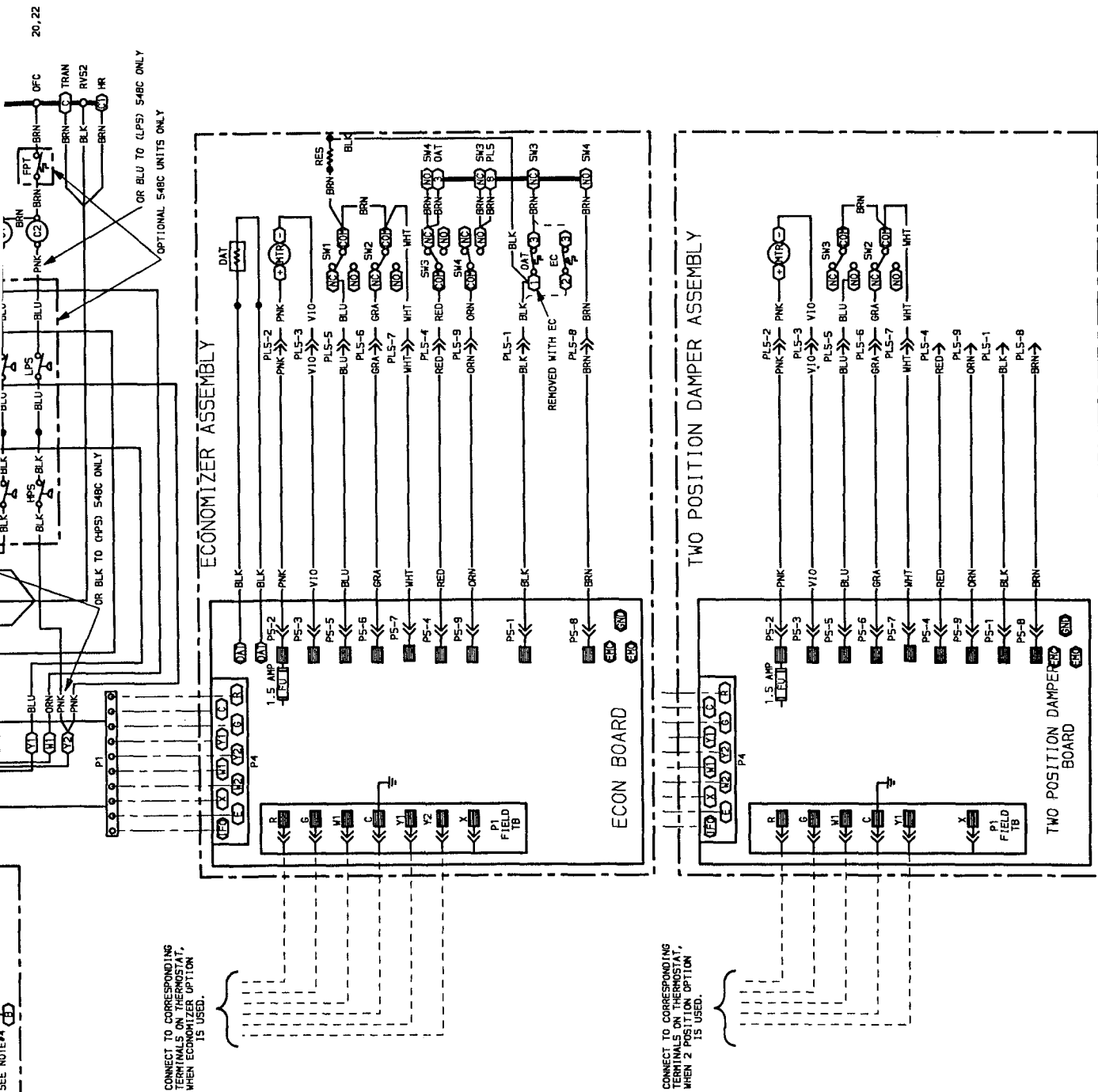


Fig. 10 — Label Diagram, Schematic; 50LJQ008-012, 575-3-60

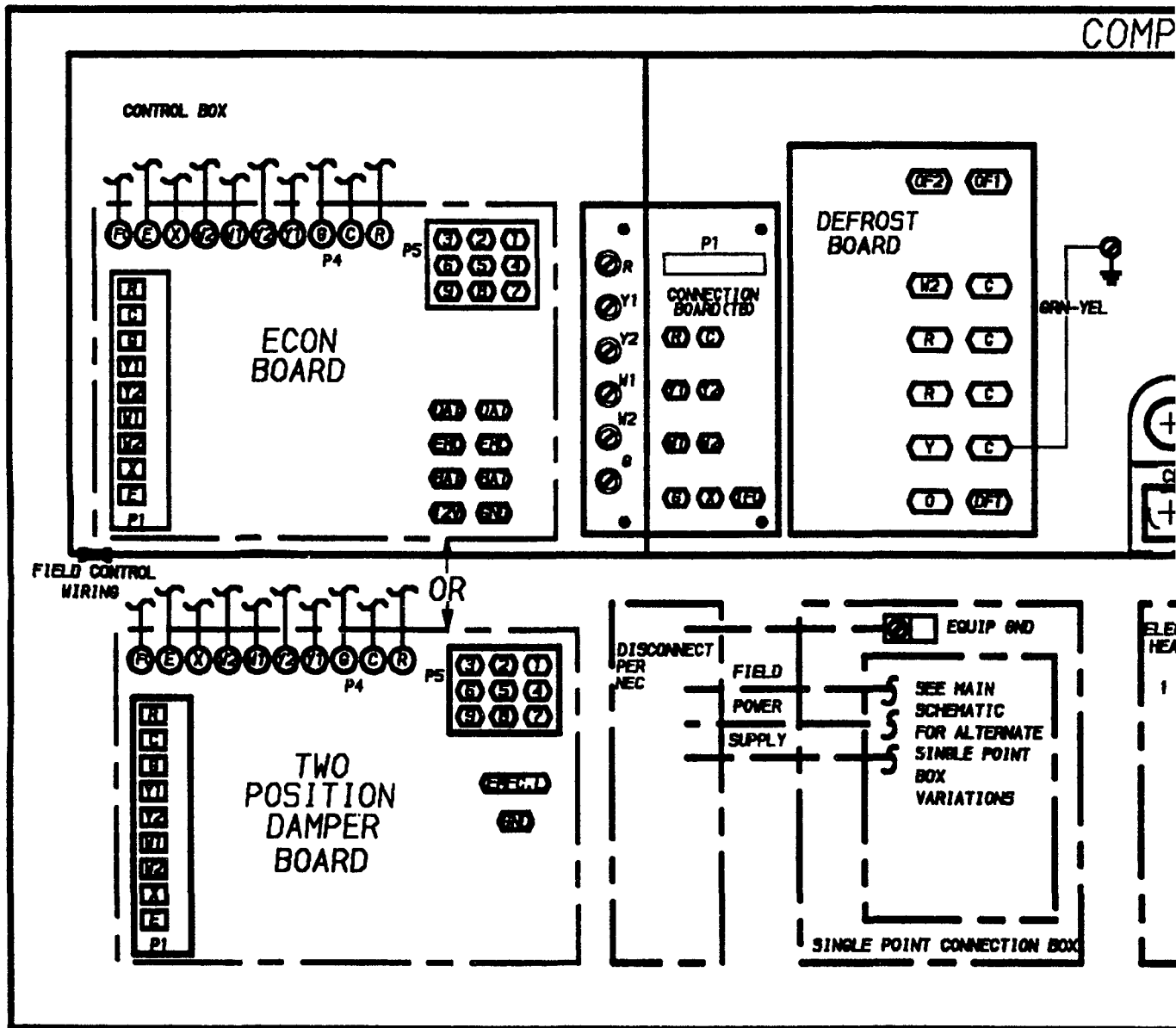
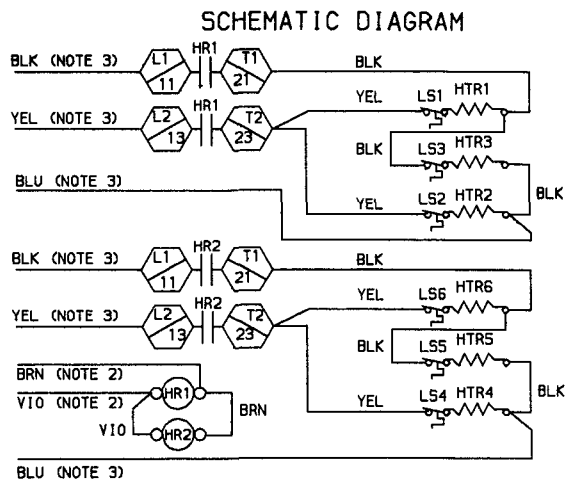
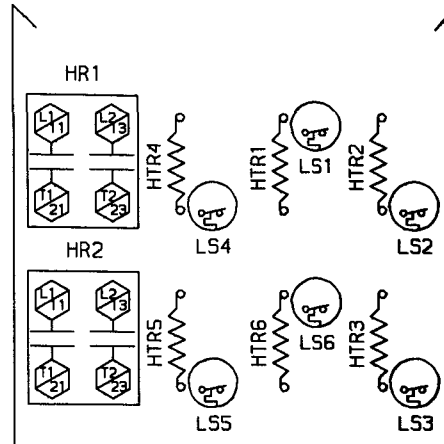


Fig. 11 — Componder



COMPONENT ARRANGEMENT



⚠ WARNING

Electric shock hazard — disconnect all branch circuits before removing this cover

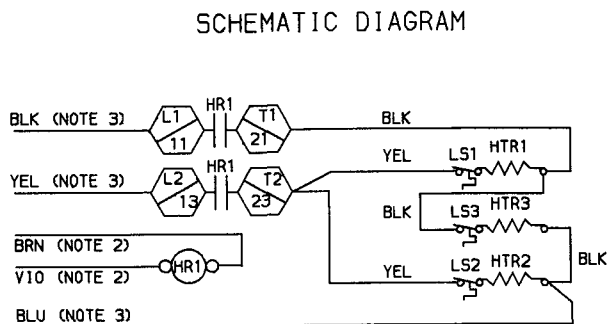
NOTES:

- 1 To be wired in accordance with NEC and local codes
- 2 Brown and violet 24-vac wires are supplied with heater and connected at installation to base unit as shown on base unit wiring diagram
- 3 Power wires are supplied with heater and connected at installation to base unit field power connection box as shown on base unit wiring diagram For field installation of electric heaters, field power connection box shown on equipment nameplate must be used

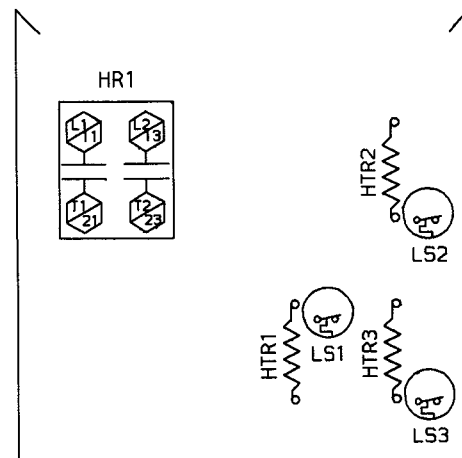
LEGEND

- Sylvania Marked Terminal Elmwood
- Unmarked Terminal
- HTR** — Heater
- HR** — Heater Relay
- LS** — Limit Switch
- NEC** — National Electrical Code

Fig. 12 — Accessory Electric Heater Label Diagram, 18.6/24.8 kW, 24.0/32.0 kW, 31.8/42.4 kW, and 37.5/50.0 kW, 208/230 V



COMPONENT ARRANGEMENT



⚠ WARNING

Electric shock hazard — disconnect all branch circuits before removing this cover

NOTES:

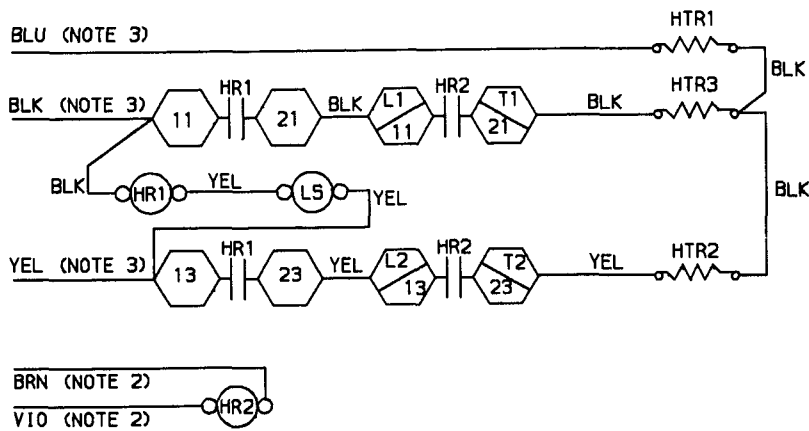
- 1 To be wired in accordance with NEC and local codes.
- 2 Brown and violet 24-vac wires are supplied with heater and connected at installation to base unit as shown on base unit wiring diagram.
- 3 Power wires are supplied with heater and connected at installation to base unit field power connection box as shown on base unit wiring diagram For field installation of electric heaters, field power connection box shown on equipment nameplate must be used

LEGEND

- Sylvania Marked Terminal Elmwood
- Unmarked Terminal
- HTR** — Heater
- HR** — Heater Relay
- LS** — Limit Switch
- NEC** — National Electrical Code

Fig. 13 — Accessory Electric Heater Label Diagram, 7.8/10.4 kW and 12.0/16.0 kW, 208/230 V

SCHEMATIC DIAGRAM



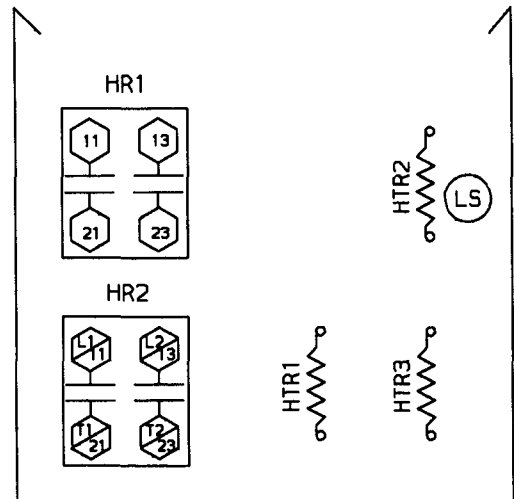
⚠ WARNING

Electric shock hazard — disconnect all branch circuits before removing this cover

NOTES:

1. To be wired in accordance with NEC and local codes.
2. Brown and violet 24-vac wires are supplied with heater and connected at installation to base unit as shown on base unit wiring diagram.
3. Power wires are supplied with heater and connected at installation to base unit field power connection box as shown on base unit wiring diagram. For field installation of electric heaters, field power connection box shown on equipment nameplate must be used

COMPONENT ARRANGEMENT

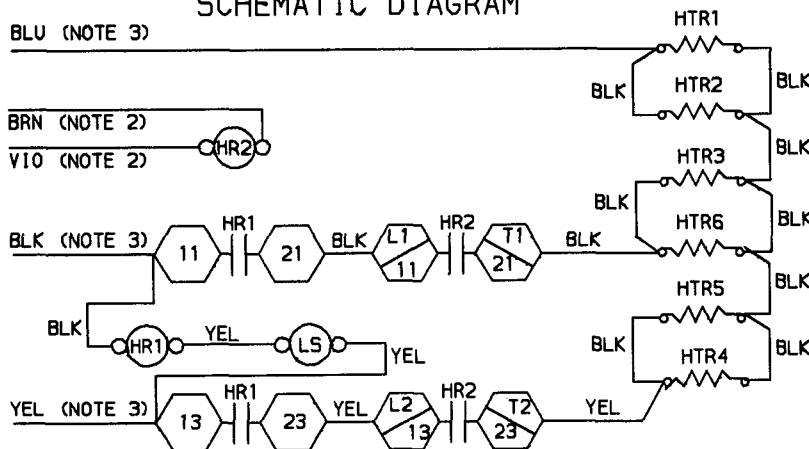


LEGEND

- Sylvania
- Marked Terminal HR2 Only
- Elmwood
- Unmarked Terminal
- HTR** — Heater
- HR** — Heater Relay
- LS** — Limit Switch
- NEC** — National Electrical Code

Fig. 14 — Accessory Electric Heater Label Diagram, 13.9 kW and 16.5 kW, 460 V; 18.0 kW, 575 V

SCHEMATIC DIAGRAM



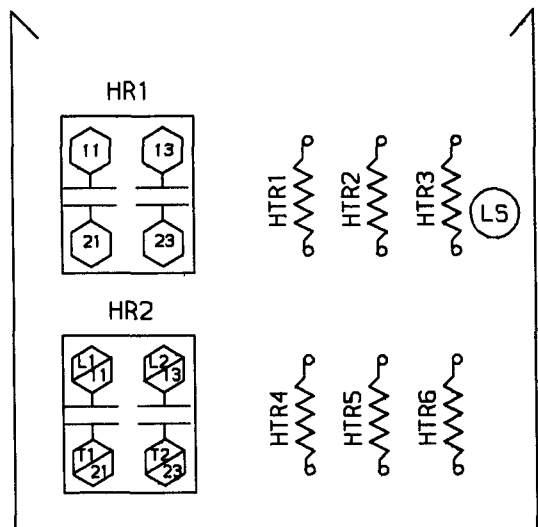
⚠ WARNING

Electric shock hazard — disconnect all branch circuits before removing this cover.

NOTES:

1. To be wired in accordance with NEC and local codes
2. Brown and violet 24-vac wires are supplied with heater and connected at installation to base unit as shown on base unit wiring diagram.
3. Power wires are supplied with heater and connected at installation to base unit field power connection box as shown on base unit wiring diagram. For field installation of electric heaters, field power connection box shown on equipment nameplate must be used.

COMPONENT ARRANGEMENT



LEGEND

- Sylvania
- Marked Terminal HR2 Only
- Elmwood
- Unmarked Terminal
- HTR** — Heater
- HR** — Heater Relay
- LS** — Limit Switch
- NEC** — National Electrical Code

Fig. 15 — Accessory Electric Heater Label Diagram, 27.8 kW, 33.0 kW, 41.7 kW, and 50.0 kW, 460 V; 36.0 kW and 54.0 kW, 575 V

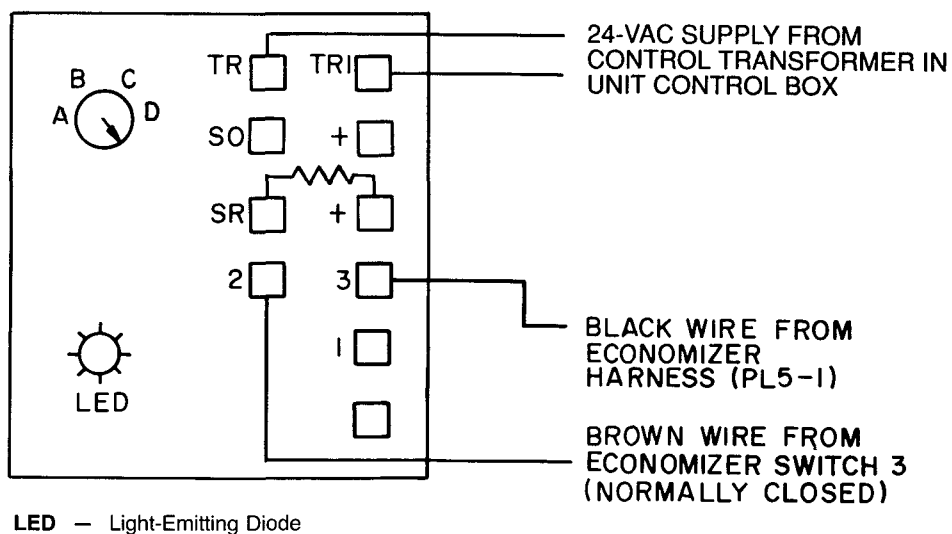


Fig. 16 — Wiring Connections for Accessory Solid-State Enthalpy Control (HH57AC077)

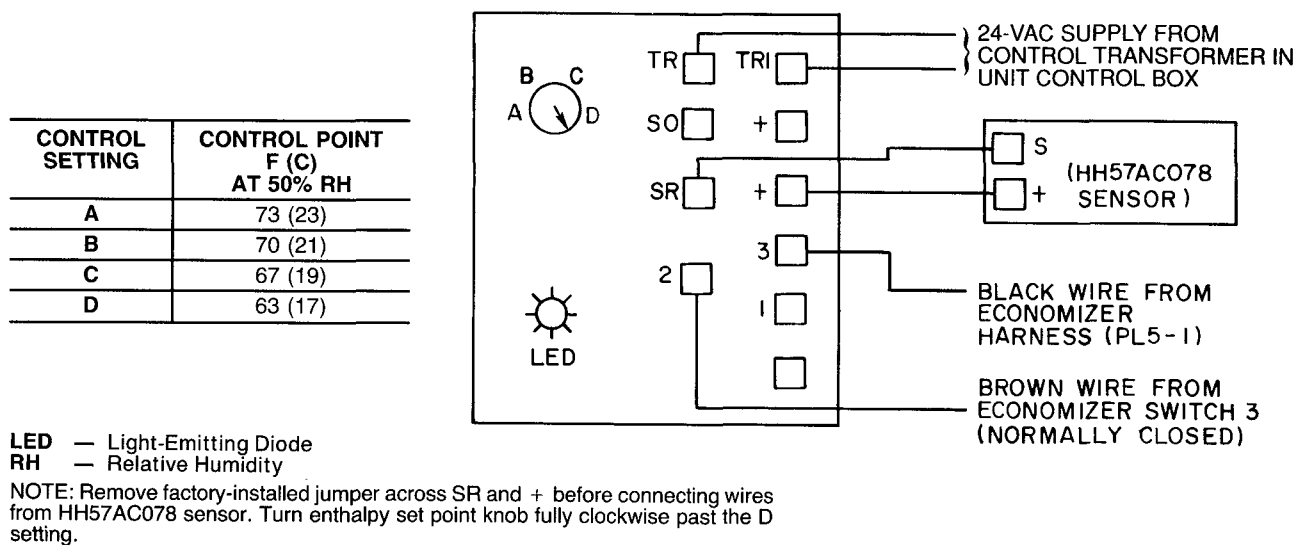


Fig. 17 — Wiring Connections for Accessory Differential Enthalpy Control (HH57AC077 and HH57AC078)

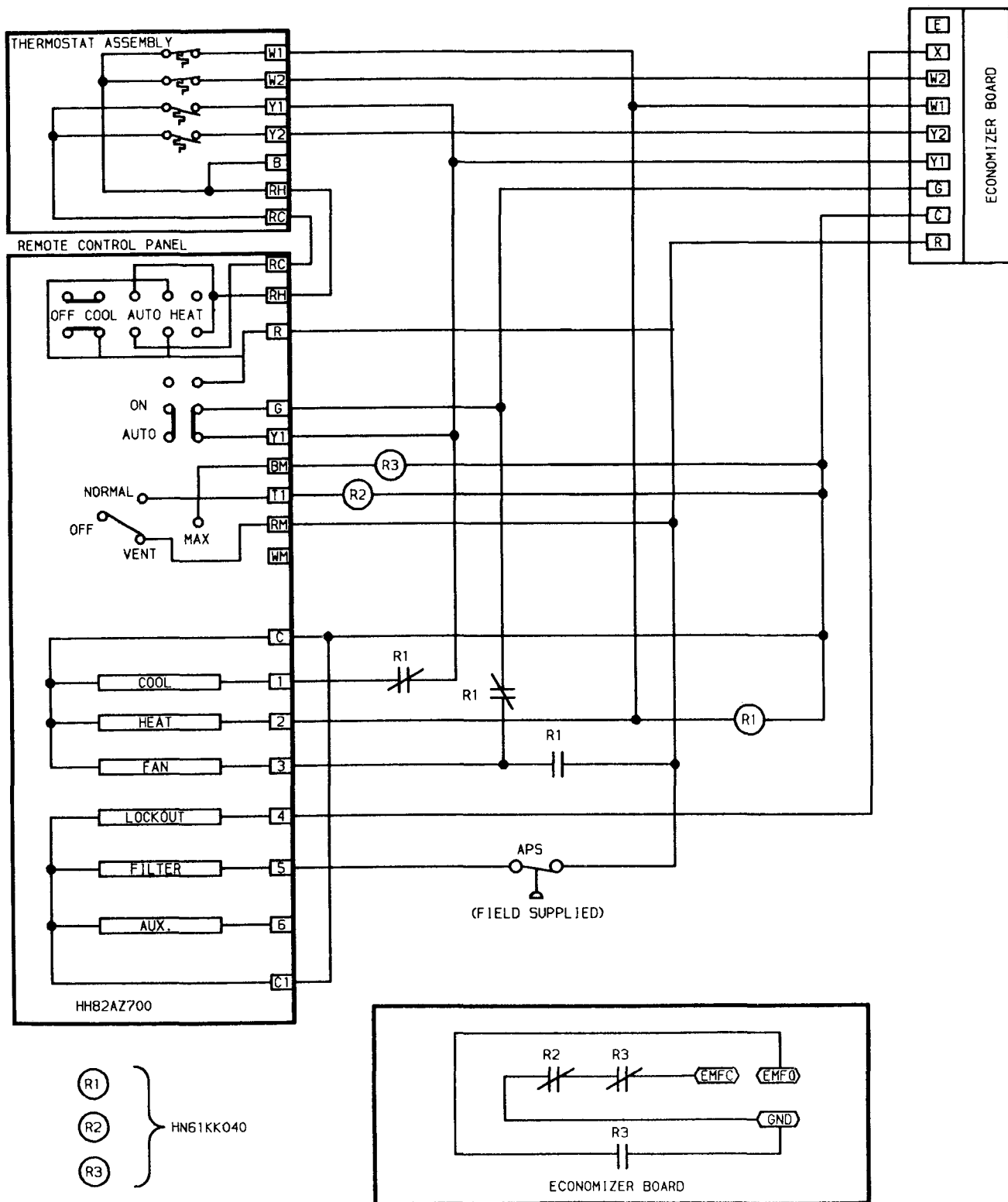


Fig. 18 — Accessory Remote Control Panel Wiring (HH82AZ700)

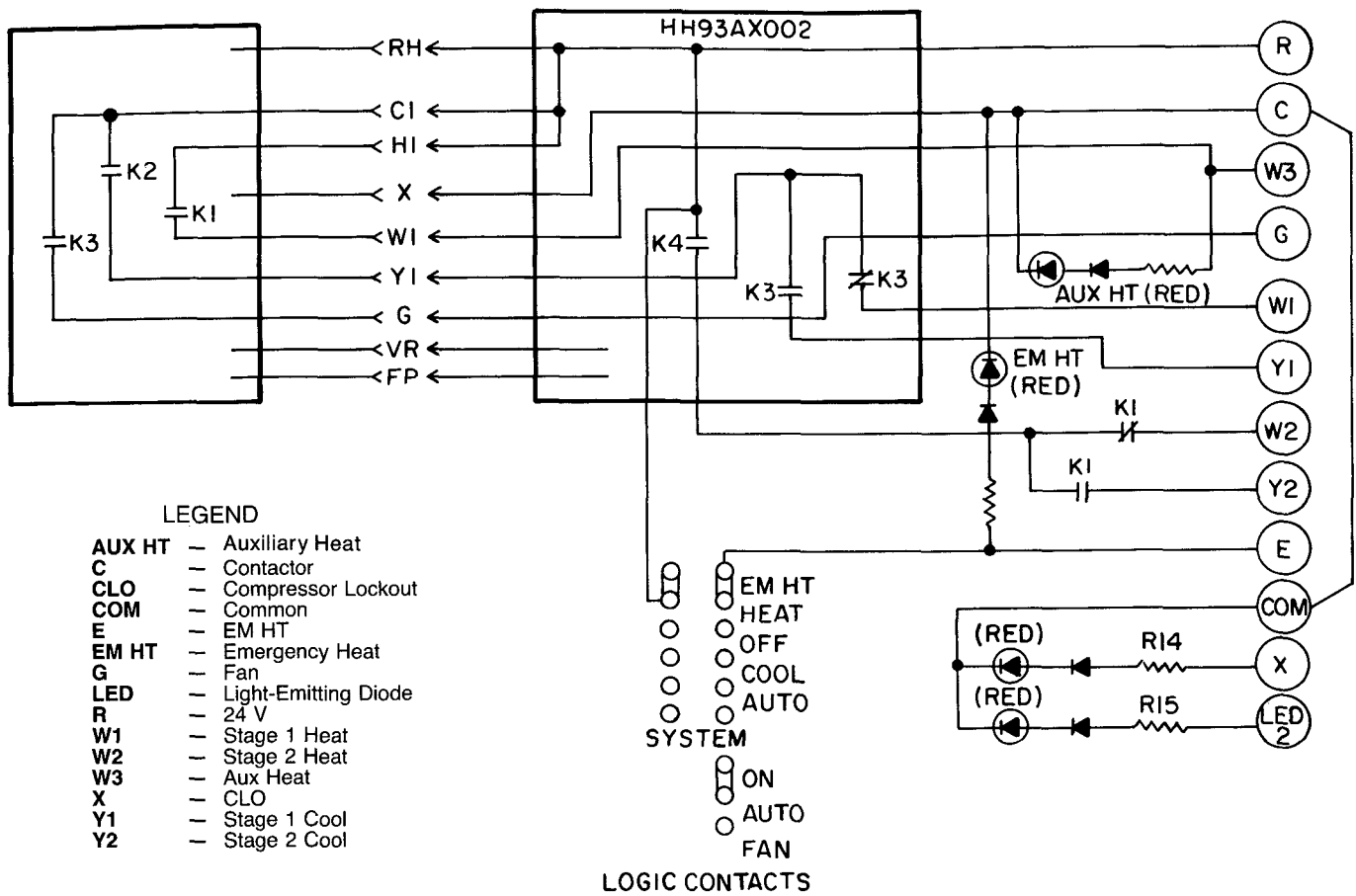
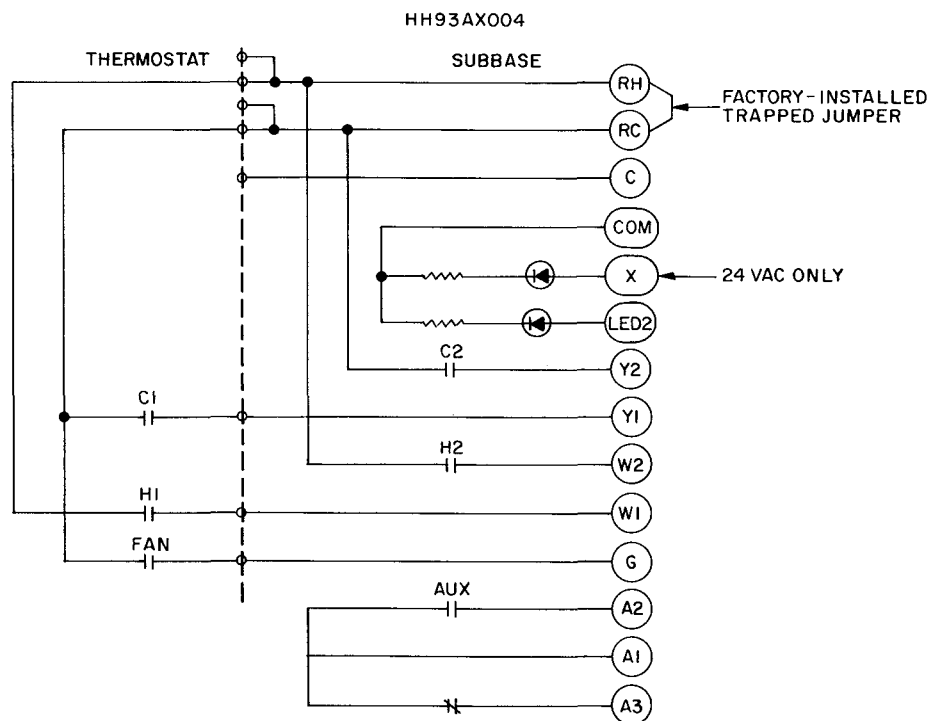
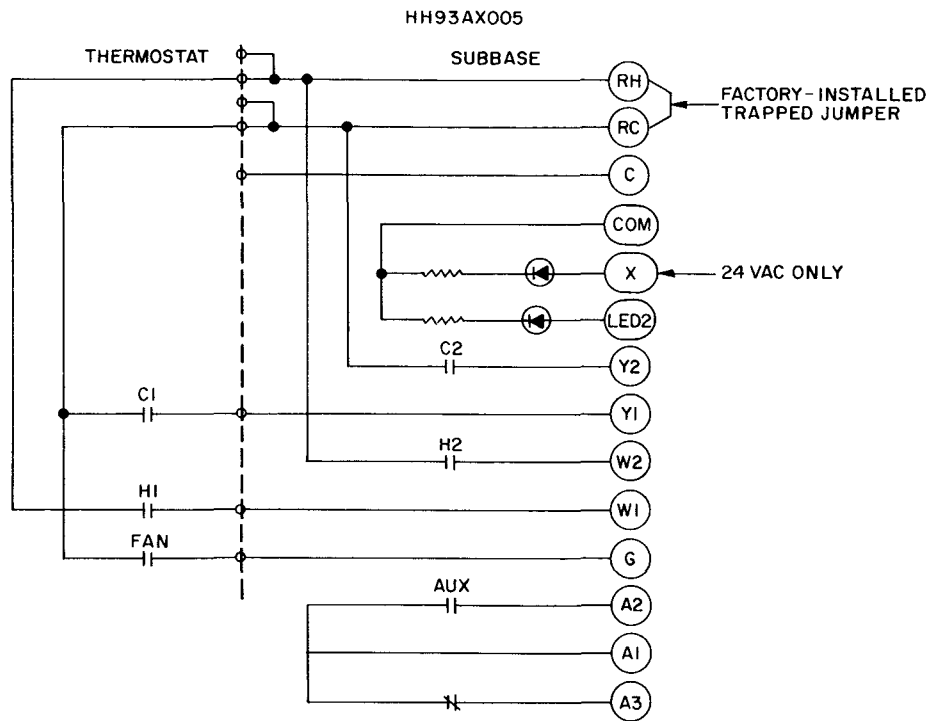


Fig. 19 — Accessory Electronic Thermostat Wiring, 50LJQ008, 012



LEGEND

AUX	— Auxiliary	LED	— Light-Emitting Diode
C	— Contactor	W1	— Stage 1 Heat
CLO	— Compressor Lockout	W2	— Stage 2 Heat
COM	— Common	X	— CLO
G	— Fan	Y1	— Stage 1 Cool
		Y2	— Stage 2 Cool

Fig. 20 — Accessory Electronic Thermostat Wiring, 48/50LJ008-014

ROOM THERMOSTAT

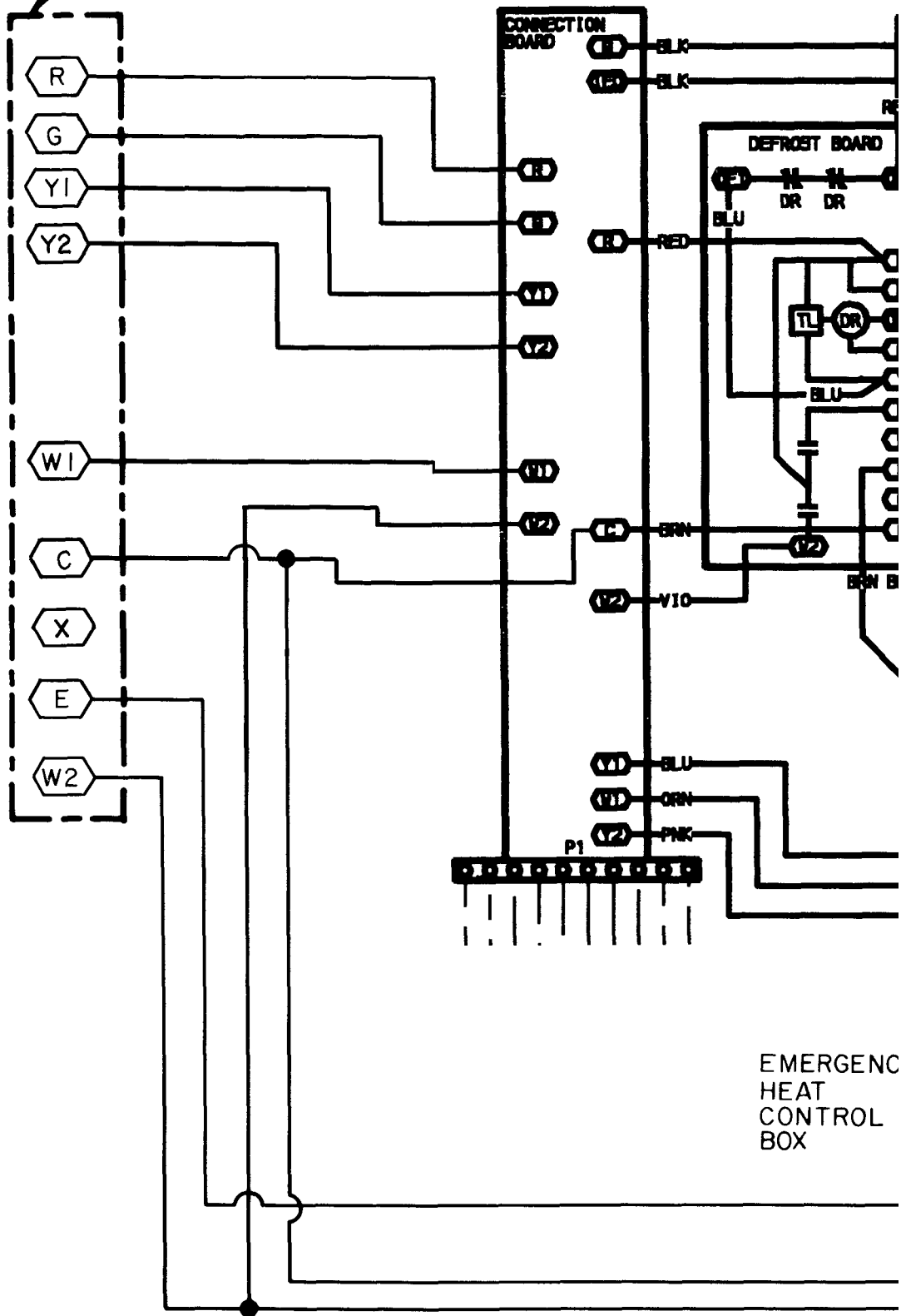
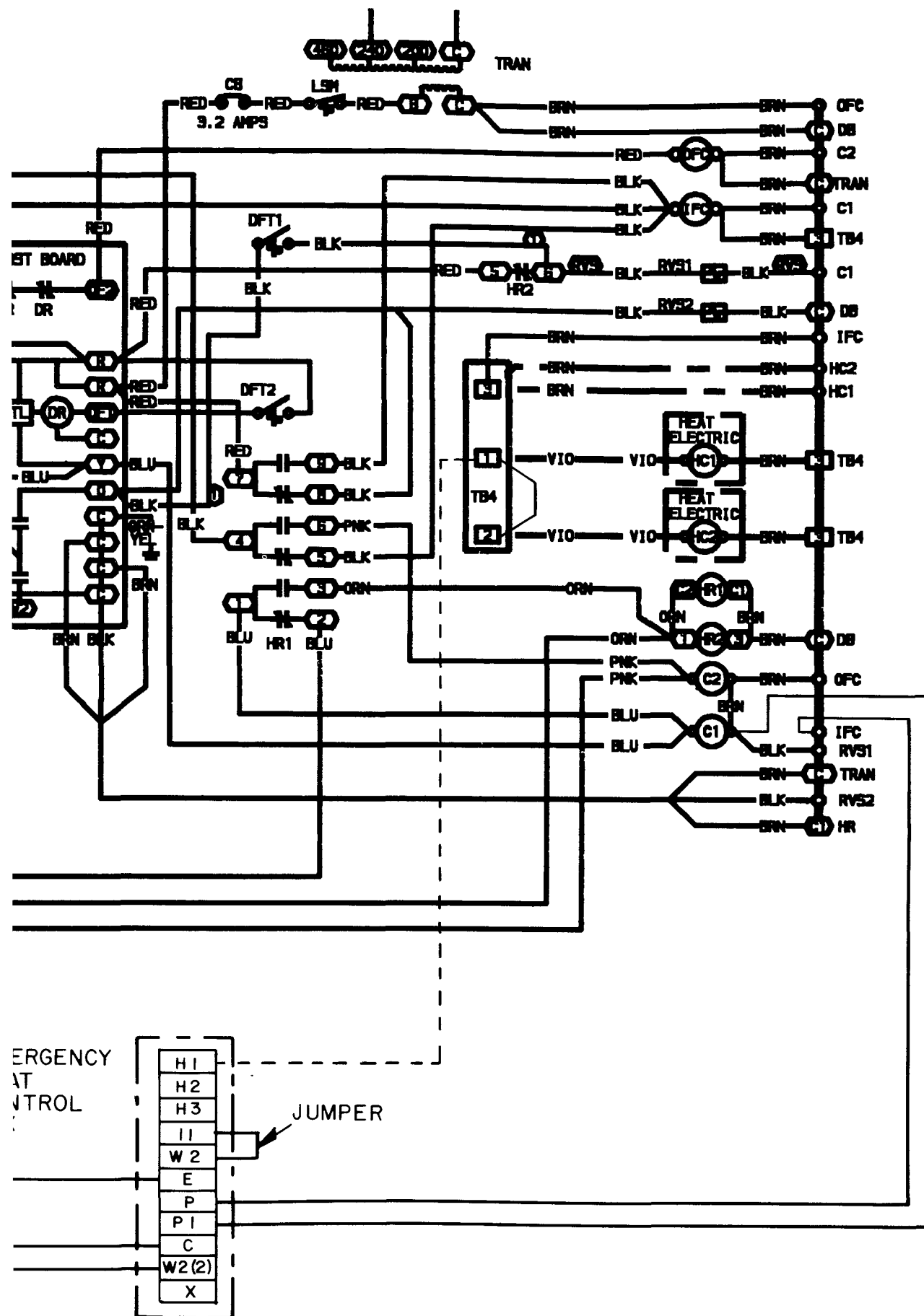
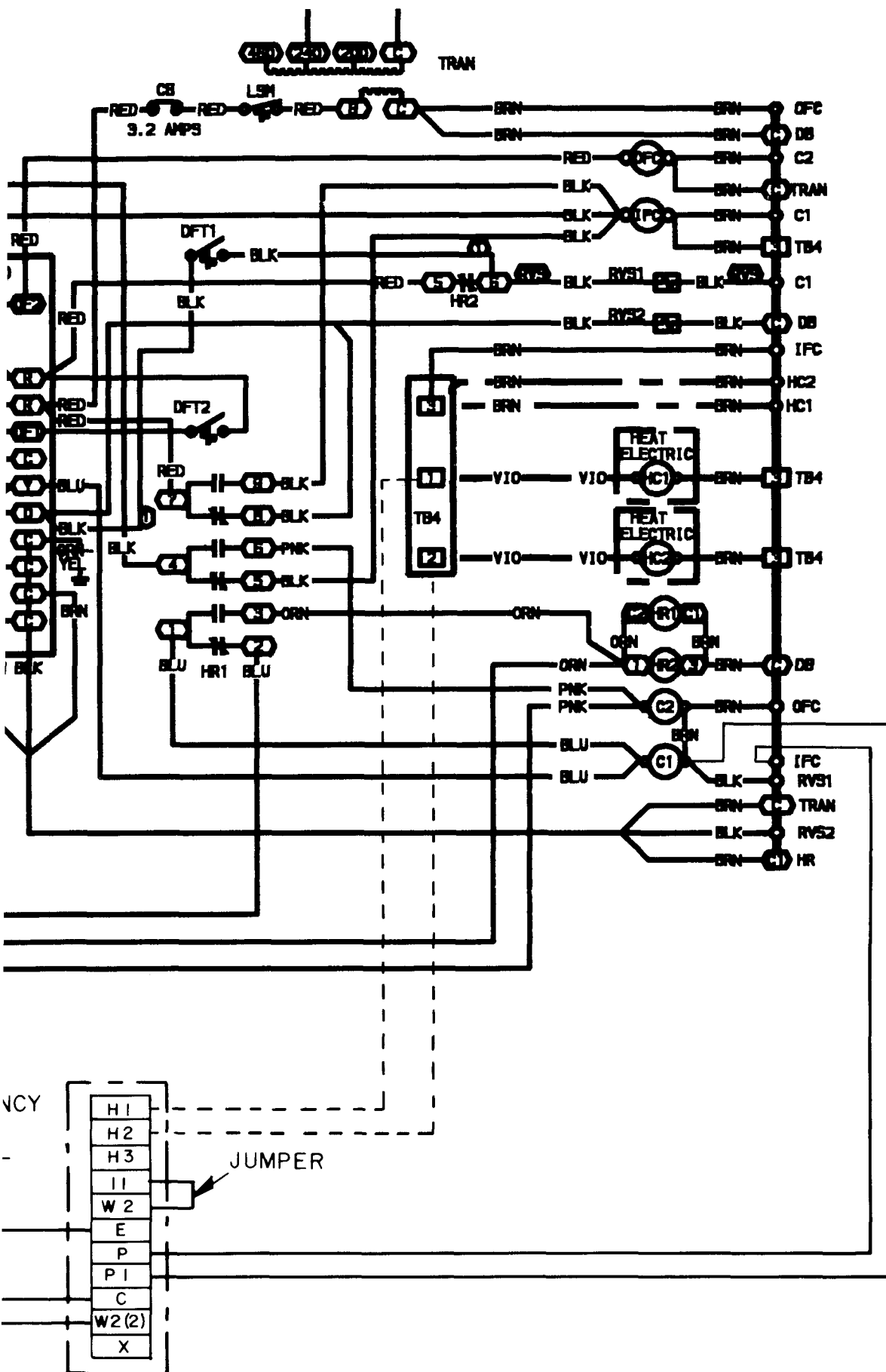


Fig. 21 — Accessory Emergency Heat Control Box



by Heat Control Panel Wiring, One-Stage Electric Heat



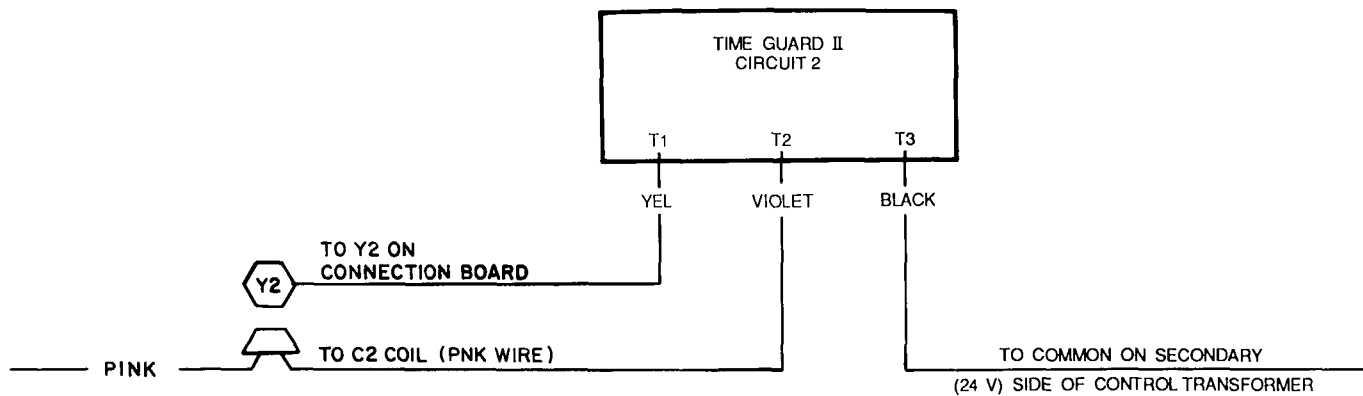
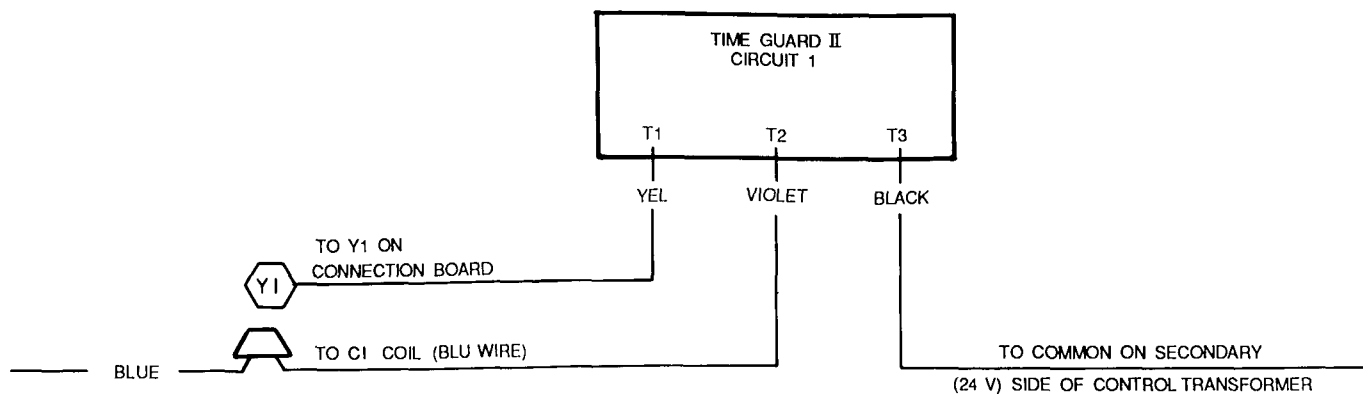


Fig. 23 — Time Guard® II Control Circuit Wiring, 48/50LJ008-014

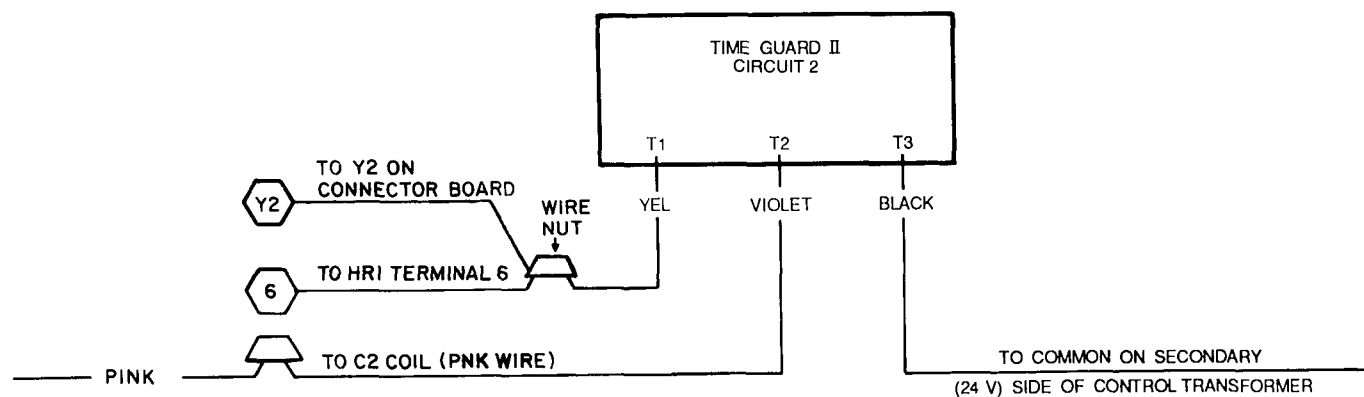
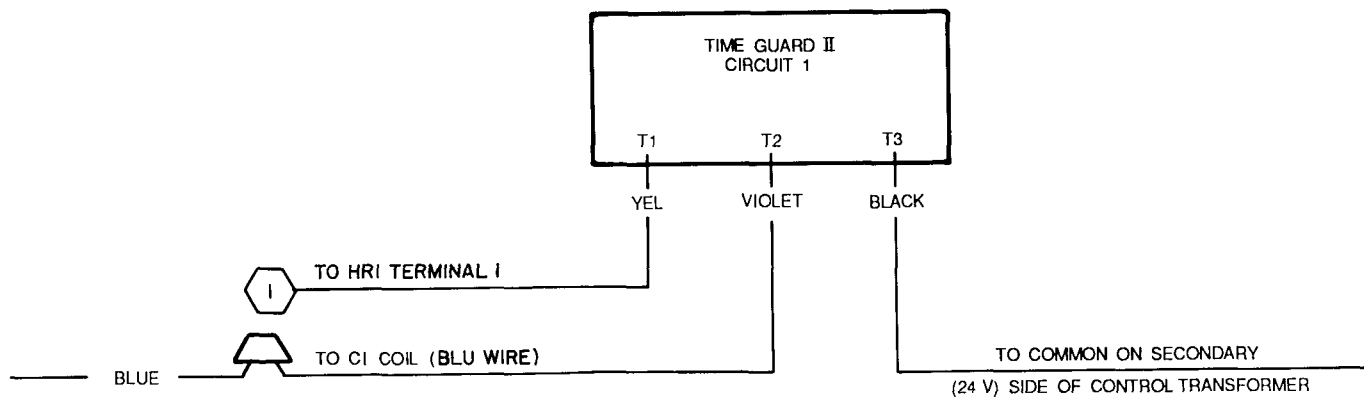


Fig. 24 — Time Guard® II Control Circuit Wiring, 50LJQ008,012