

Wiring Diagrams











INDEX

UNIT MODEL	UNIT VOLTAGE	DRAWING		FIG. NO.
		Type	Number	
48DJ024-030	All	Gas Heat Section	48DJ501634	1
48DJ/50DJ,DW024-030	All	Component Arrangement	50DJ511264	2
48DK/50DK,DY024-030	All	Component Arrangement	50DJ516224	3
48DJ/50DJ,DW024-030	208-230, 460	Label Diagram	50DJ506224	4
48DK,50DK,DY024-030	208-230, 460	Label Diagram	50DJ516214	5
48DK/50DK,DY024-030	575	Label Diagram	50DJ516534	6
48DJ/50DJ,DW024-030	575	Label Diagram	50DJ516184	7
50DJ,DK,DW,DY024-030	208/230, 460	Label, Electric Heater, 18 kW	50DJ506234	8
	460	Label, Electric Heater, 36 kW	50DJ506234	8
	208/230	Label, Electric Heater, 36 kW	50DJ506244	9
50DJ024-030, DW024	460	Label, Electric Heater, 90 kW	50DJ506264	10
50DW028-030	460	Label, Electric Heater, 108 kW	50DJ506264	10
50DJ024-030	208/230	Label, Electric Heater, 72 kW	50DJ506284	11
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50DJ024-030	575	Label, Electric Heater, 72 kW	50DJ516204	13
50DW024	575	Label, Electric Heater, 90 kW	50DJ516204	13
50DW028-030	575	Label, Electric Heater, 108 kW	50DJ516204	13

NOTES

1. CB Must Trip Amps are equal to or less than 140% FLA.
2. If any of the original wire furnished must be replaced, it must be replaced with Type 90 C wire or its equivalent.
3. Number(s) indicates 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 opened contact. Line numbers 1-500 are located on power schematic, 501-800 are on 115-v control schematic, 801 and on are on 24-v control schematic.
4. Condenser fan motors are thermally protected.
5. Three-phase motors are protected under primary single-phasing conditions.
6. Tran 1 and 2 are wired for 460 v on 460-v units and for 208 v for 208/230-v units. If 208/230-volt units are to be run with 230-v power supply, the control circuit trans must be rewired as follows: disconnect the Blu and Yel wire on Tran 1 and connect to H3. Also disconnect the Blu wire on Tran 2 and connect to 230-v lead. Tran 1 and 2 are wired for 230 v for 400-v units.

LEGEND

AFS — Airflow Switch	HR — Heat Relay	Sen — Sensor
APS — Air Pressure Switch	HV — High Voltage	Sw — Switch
C — Contactor, Compressor	I — Ignitor	TB — Terminal Block
Cap. — Capacitor	ICP — Ignitor Control Pack	Tran — Transformer
CB — Circuit Breaker	IDC — Induced Draft Contactor	V — Voltage
CCB — Control Circuit Breaker	IDM — Induced Draft Motor	 Terminal (Marked)
CH — Crankcase Heater	IFC — Indoor Fan Contactor	 Terminal (Unmarked)
CLO — Compressor Lockout	IFCB — Indoor Fan Circuit Breaker	 Terminal Block
CO — Convenience Outlet	IFM — Indoor Fan Motor	 Splice
Comp — Compressor Motor	IP — Internal Protector	 Splice (Marked)
CS — Centrifugal Switch	LPS — Low-Pressure Switch	 Factory Wiring
CV — Constant Volume	LS — Limit Switch	 Field Control Wiring
DMS — Damper Motor Switch	MAT. — Mixed Air Thermostat	 Field Power Wiring
Du — Dummy Terminal	MGV — Main Gas Valve	 Accessory or Optional Wiring
EC — Enthalpy Control	OFC — Outdoor Fan Contactor	 To indicate common potential only, not to represent wiring.
Econ — Economizer	OFM — Outdoor Fan Motor	
EFM — Exhaust Fan Motor	P — Plug Assembly	
Equip — Equipment	PGV — Pilot Gas Valve	
FPT — Freeze Protection Thermostat	PI — Plug Assembly	
Gnd — Ground	QT — Quadruple Terminal	
HPCT — Head Pressure Control Thermostat	RS — Rollout Switch	
HPS — High-Pressure Switch	SC — Safety Circuit	

Manufacturer reserves the right to discontinue, or change at any time, specifications or designs without notice and without incurring obligations.

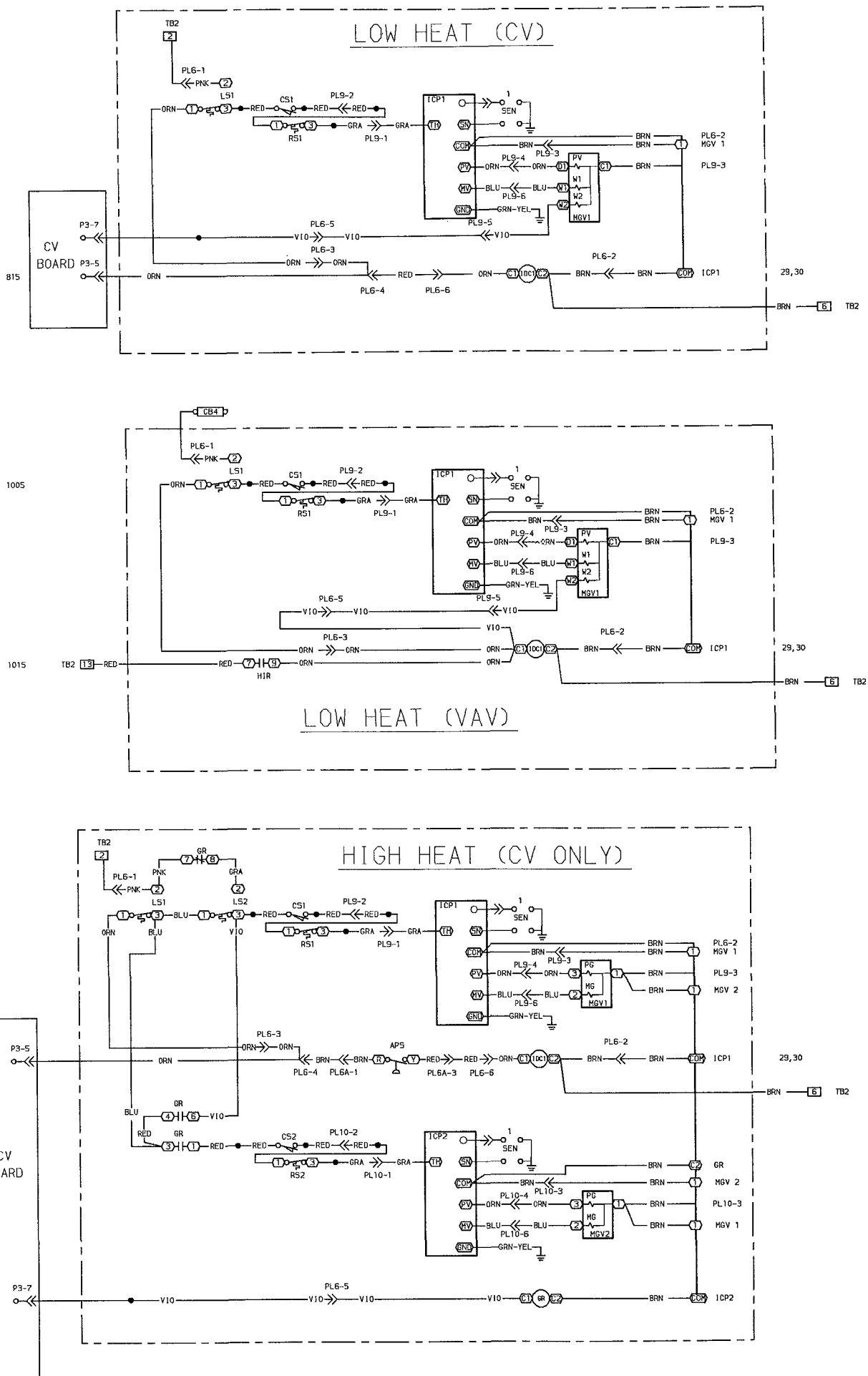
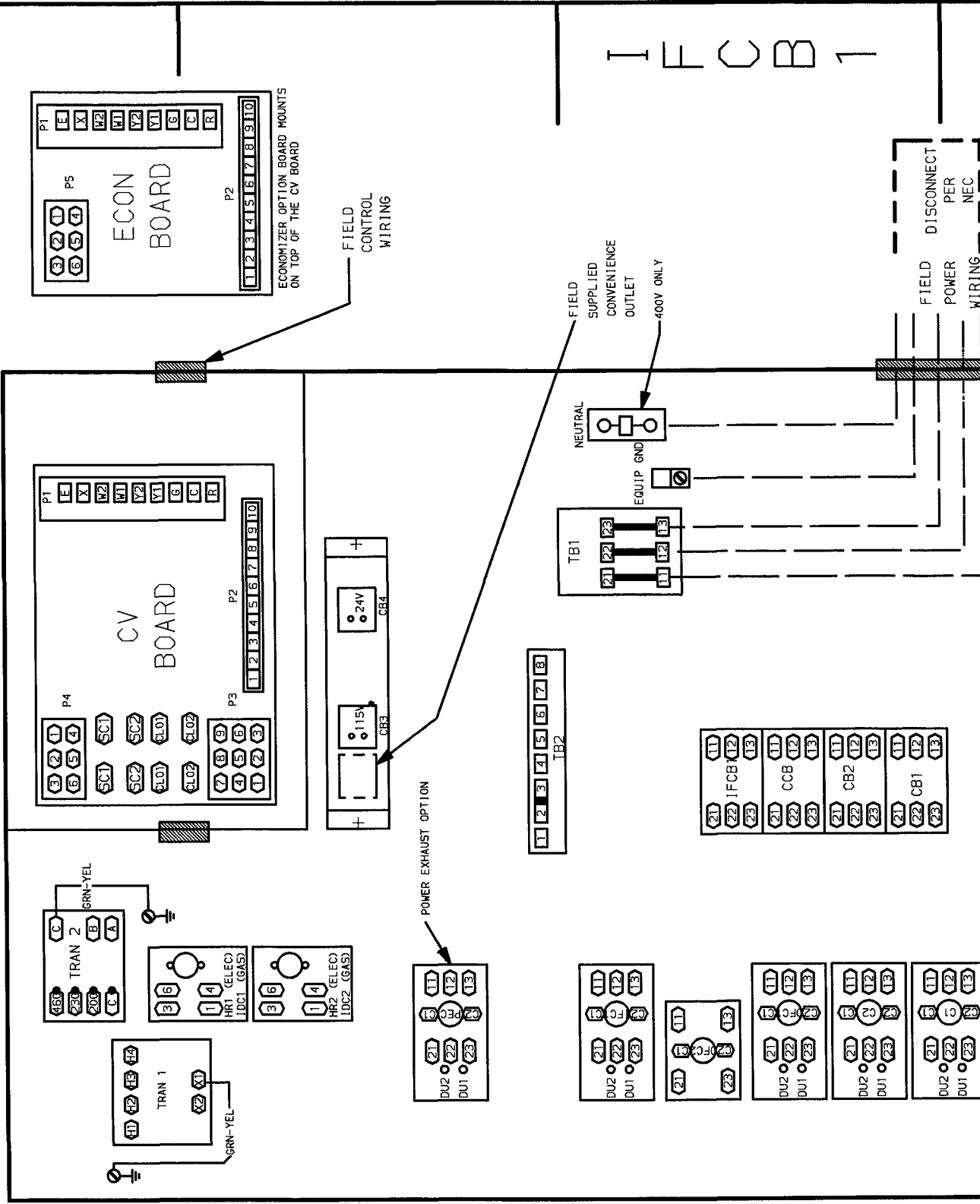


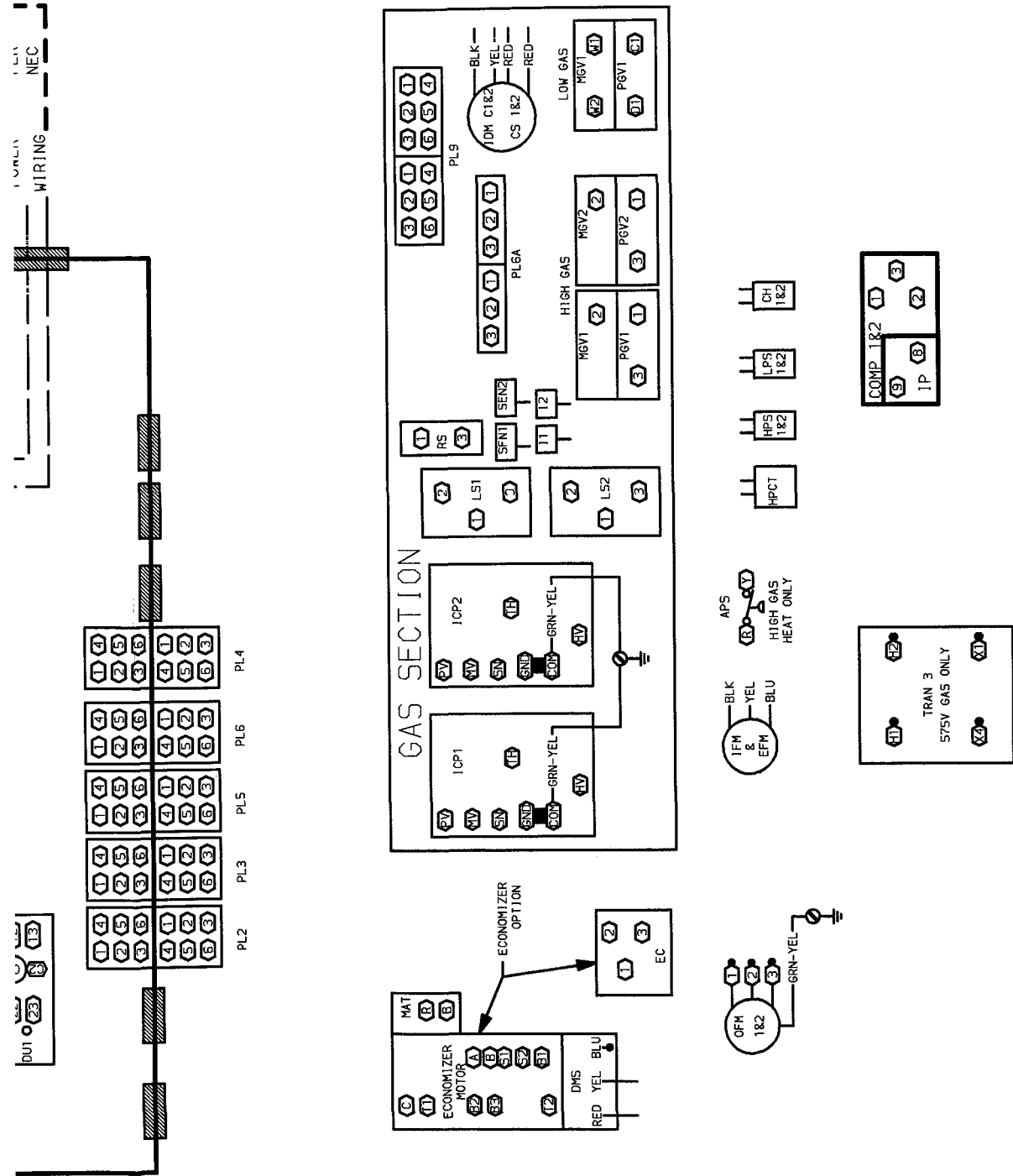
Fig. 1 — Gas Heat Section, Models 48DJ024-030

COMPONENT ARRANGEMENT CONTROL BOX



I E C B 1

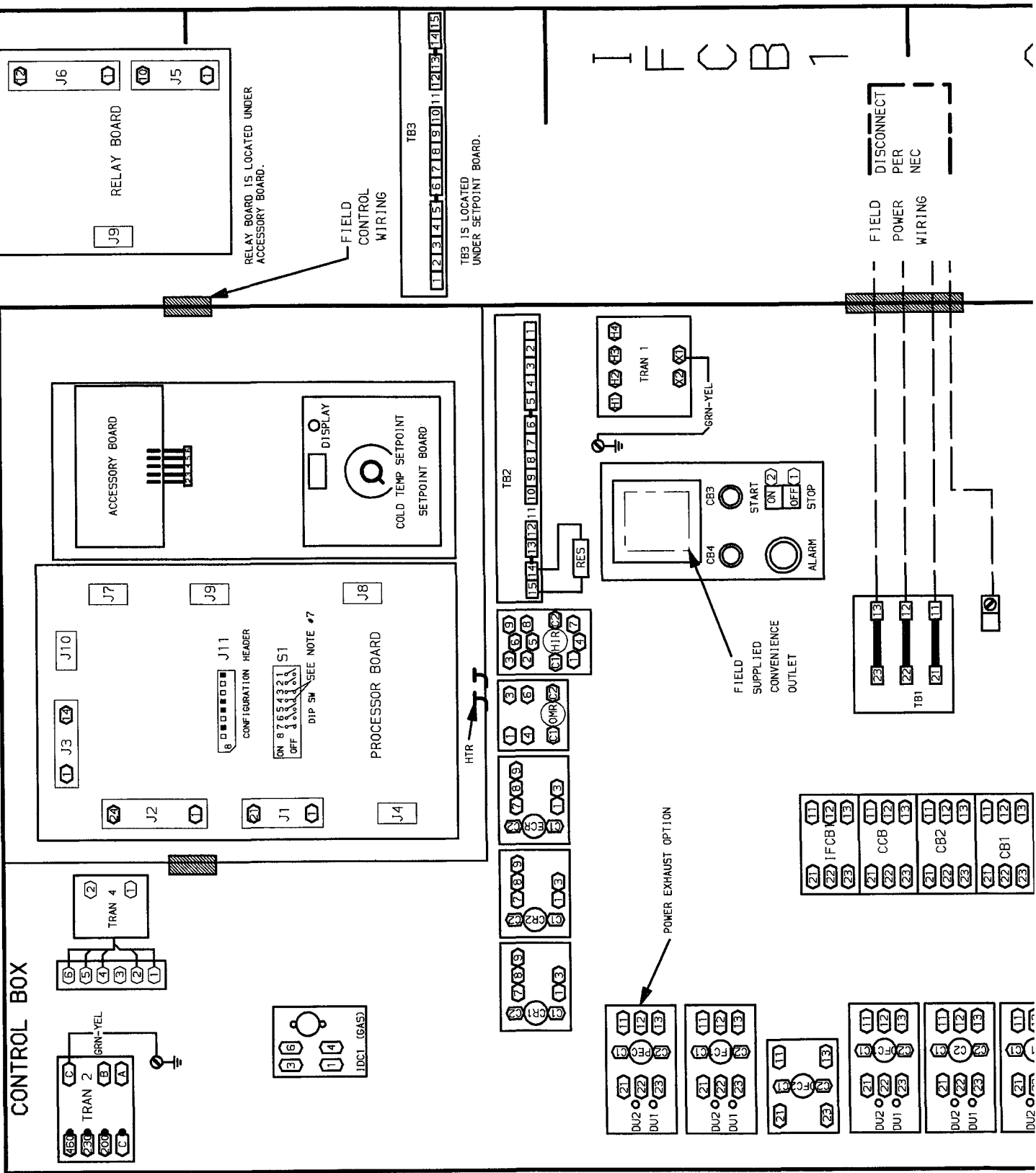
FIELD DISCONNECT
POWER PER
WIRING NEC

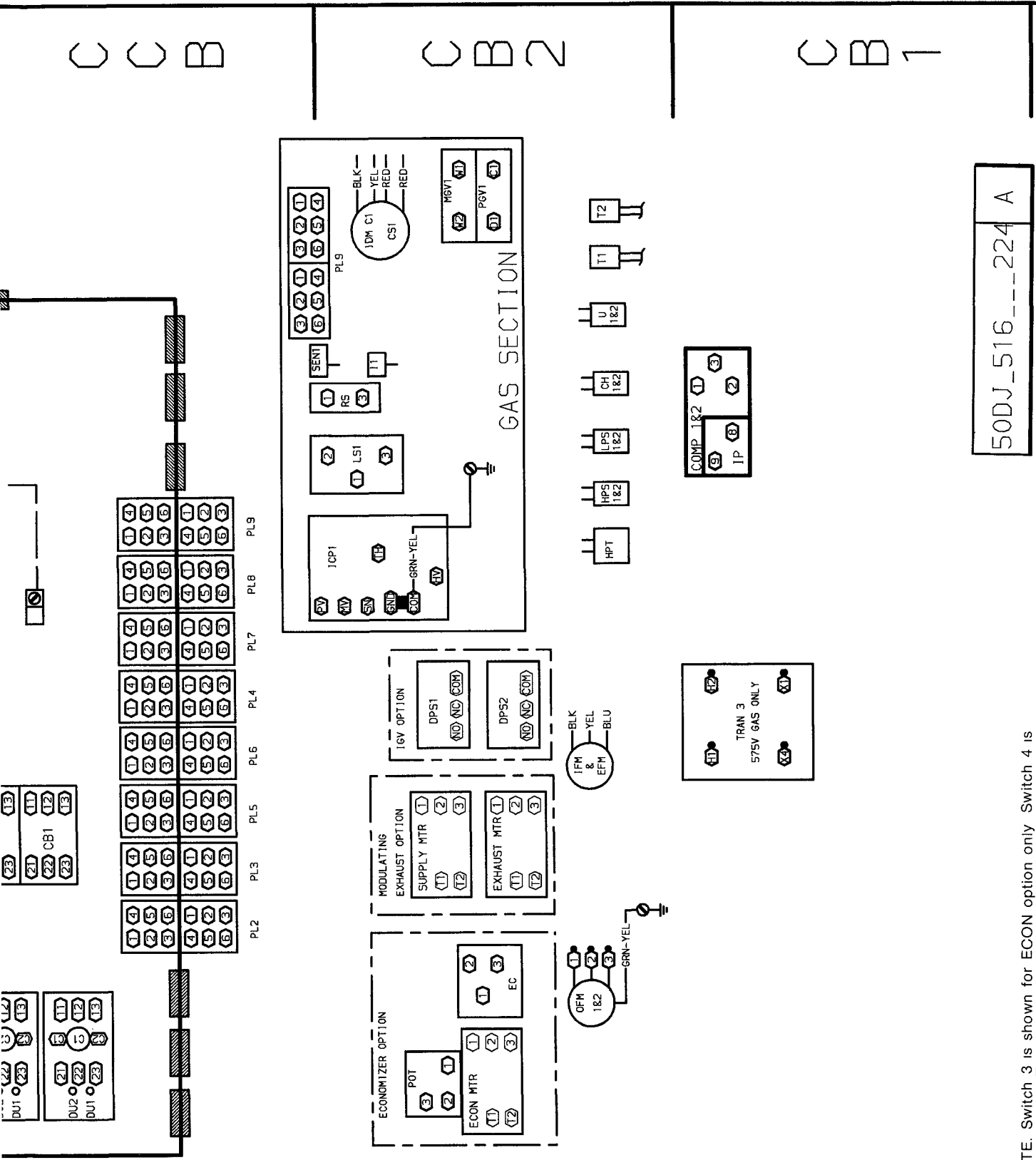


50DJ_511_---264 E

Fig. 2 — Component Arrangement, Models 48DJ/50DJ, DW024-030

COMPONENT ARRANGEMENT





NOTE: Switch 3 is shown for ECON option only. Switch 4 is shown for HEAT option only.

Fig. 3 — Component Arrangement, Models 48DK/50DK, DY024-030

SCHEMATIC

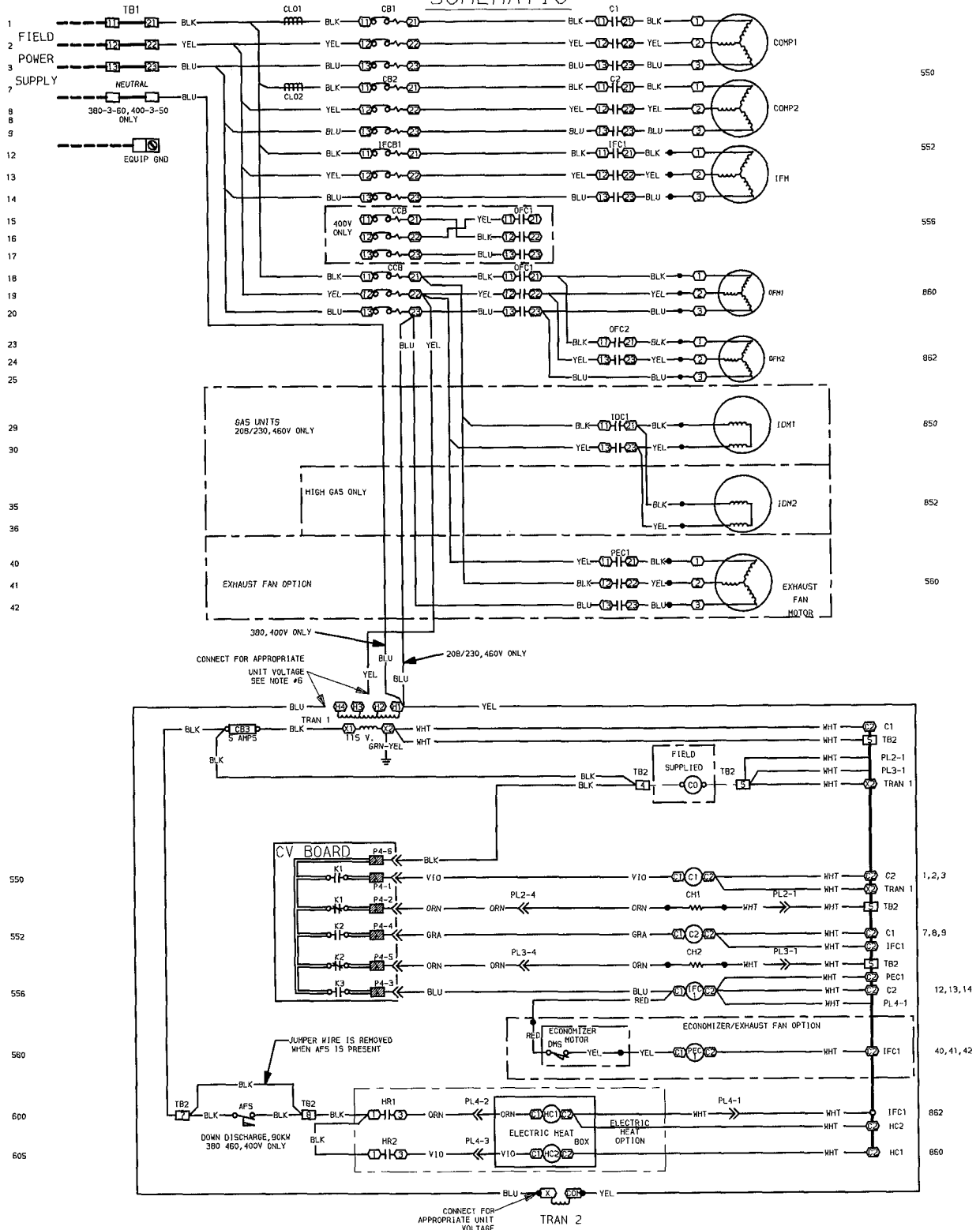
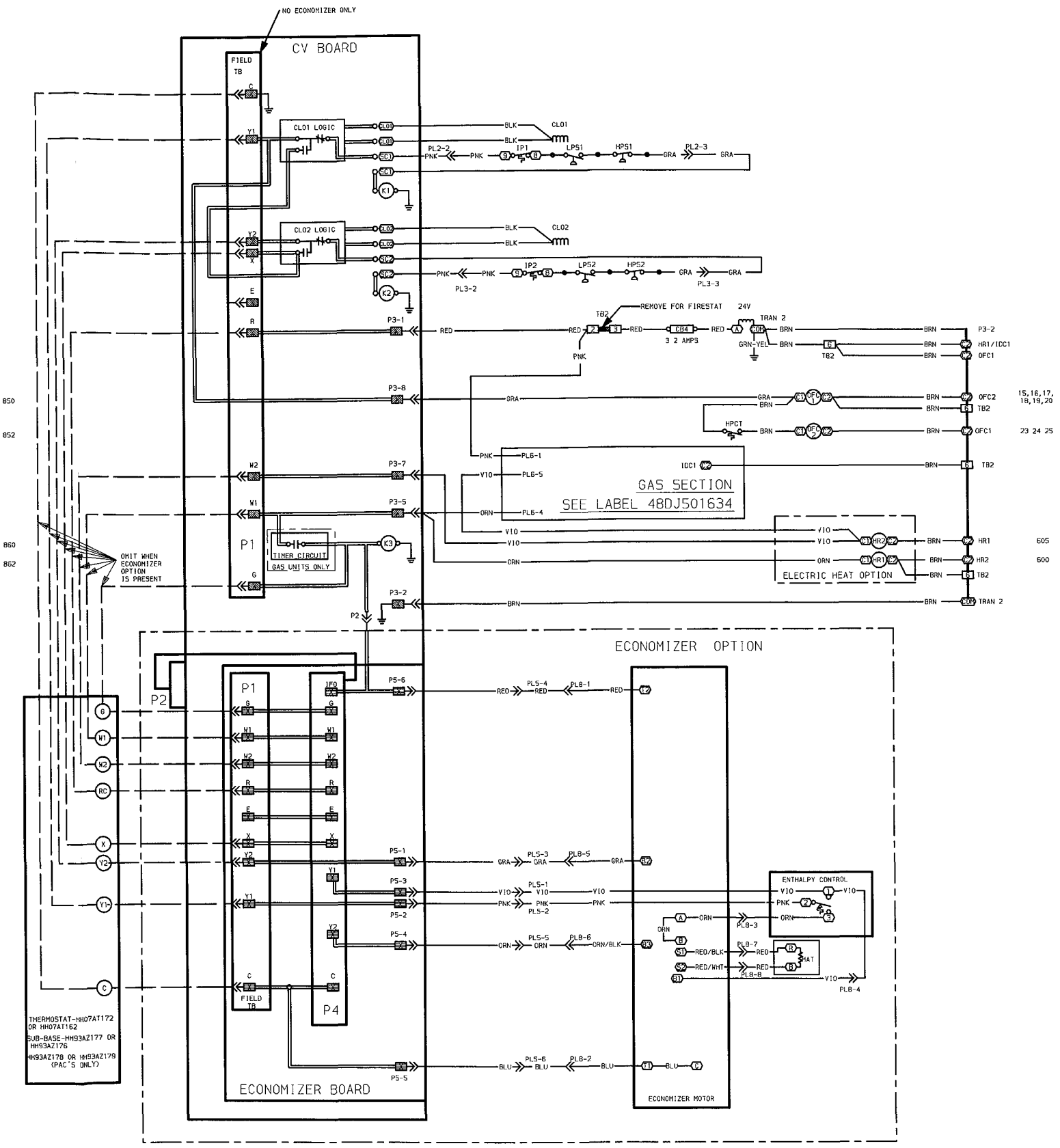
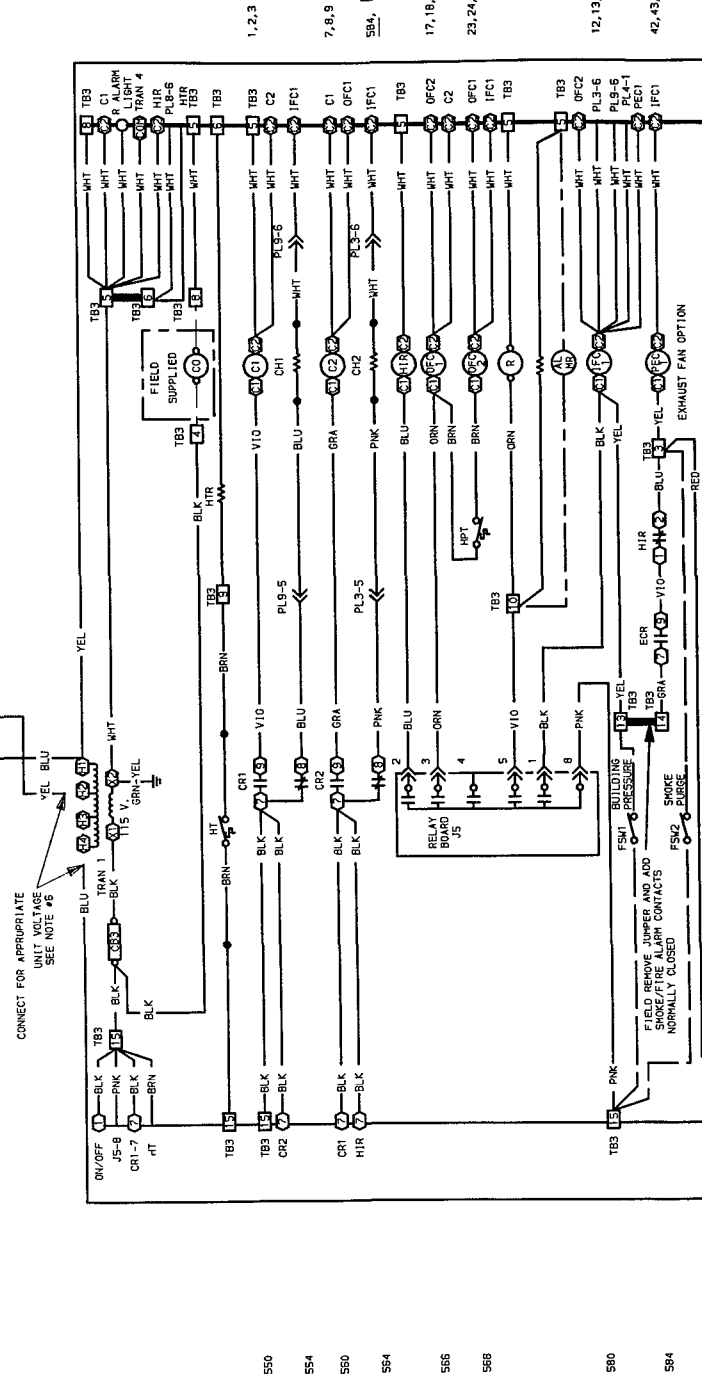
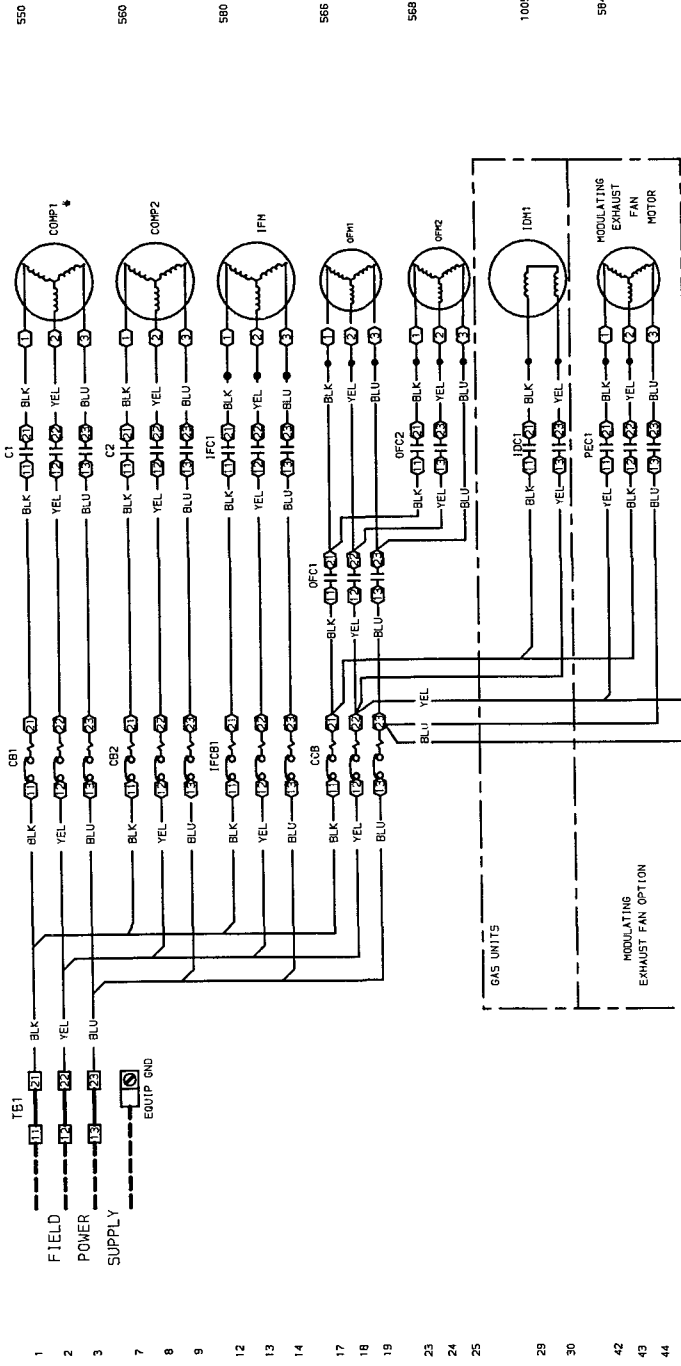


Fig. 4 — Label Diagram, Schematic, N



50DJ_506__224 M

SCHEMATIC



550 1,2,3

554 7,8,9

560 584, 1050, 1054

566 17,18,19

568 23,24,25

580 12,13,14

584 42,43,44

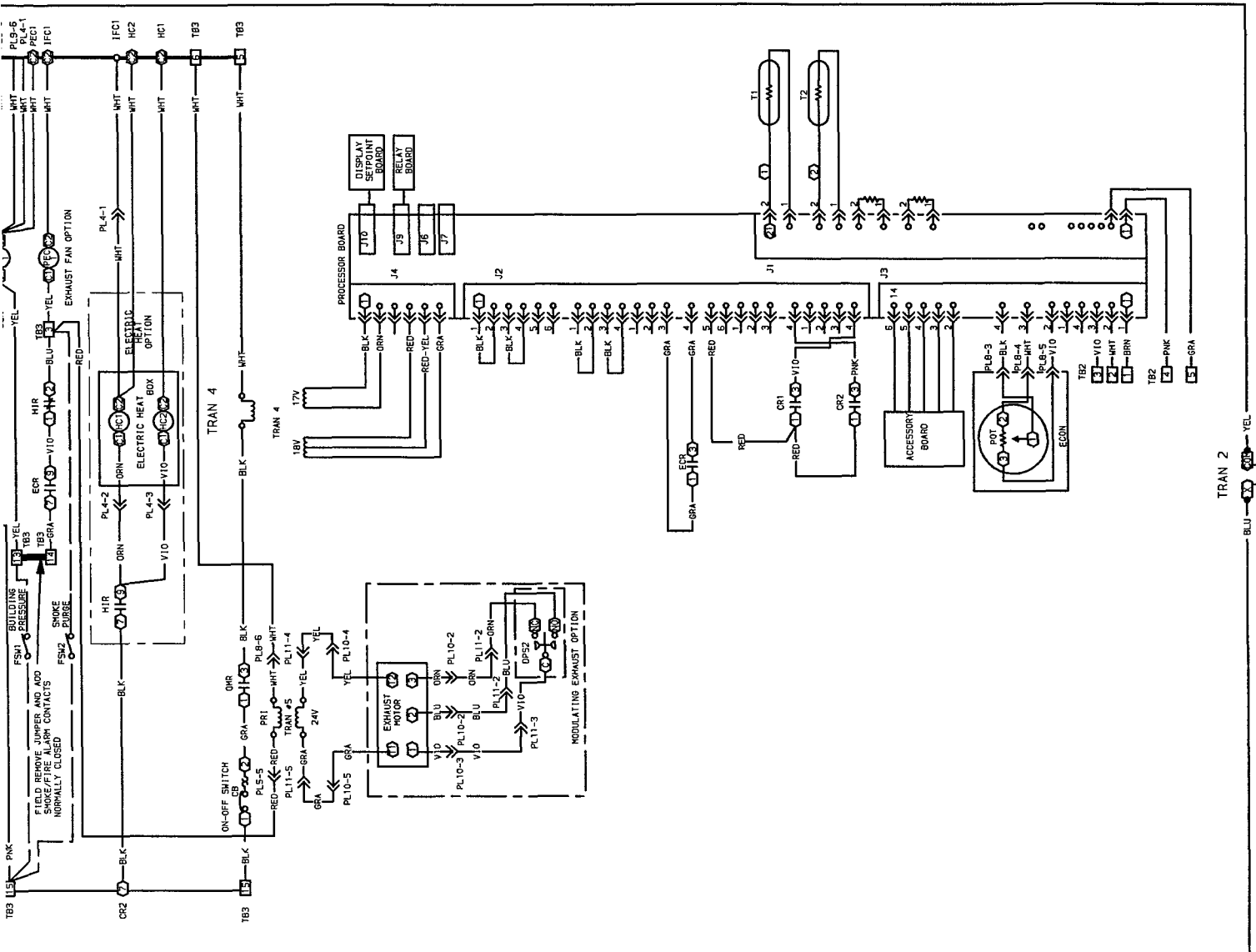
CONNECT FOR APPROPRIATE UNIT VOLTAGE SEE NOTE #6

FIELD REMOVE JUMPER AND ADD SMOKE/FIRE ALARM CONTACTS NORMALLY CLOSED

FIELD REMOVE JUMPER AND ADD SMOKE/FIRE ALARM CONTACTS NORMALLY CLOSED

FIELD REMOVE JUMPER AND ADD SMOKE/FIRE ALARM CONTACTS NORMALLY CLOSED

SEE ELECTRIC HEAT LABEL



584
600
620
900
912
916

TRAN 2

Continued Below

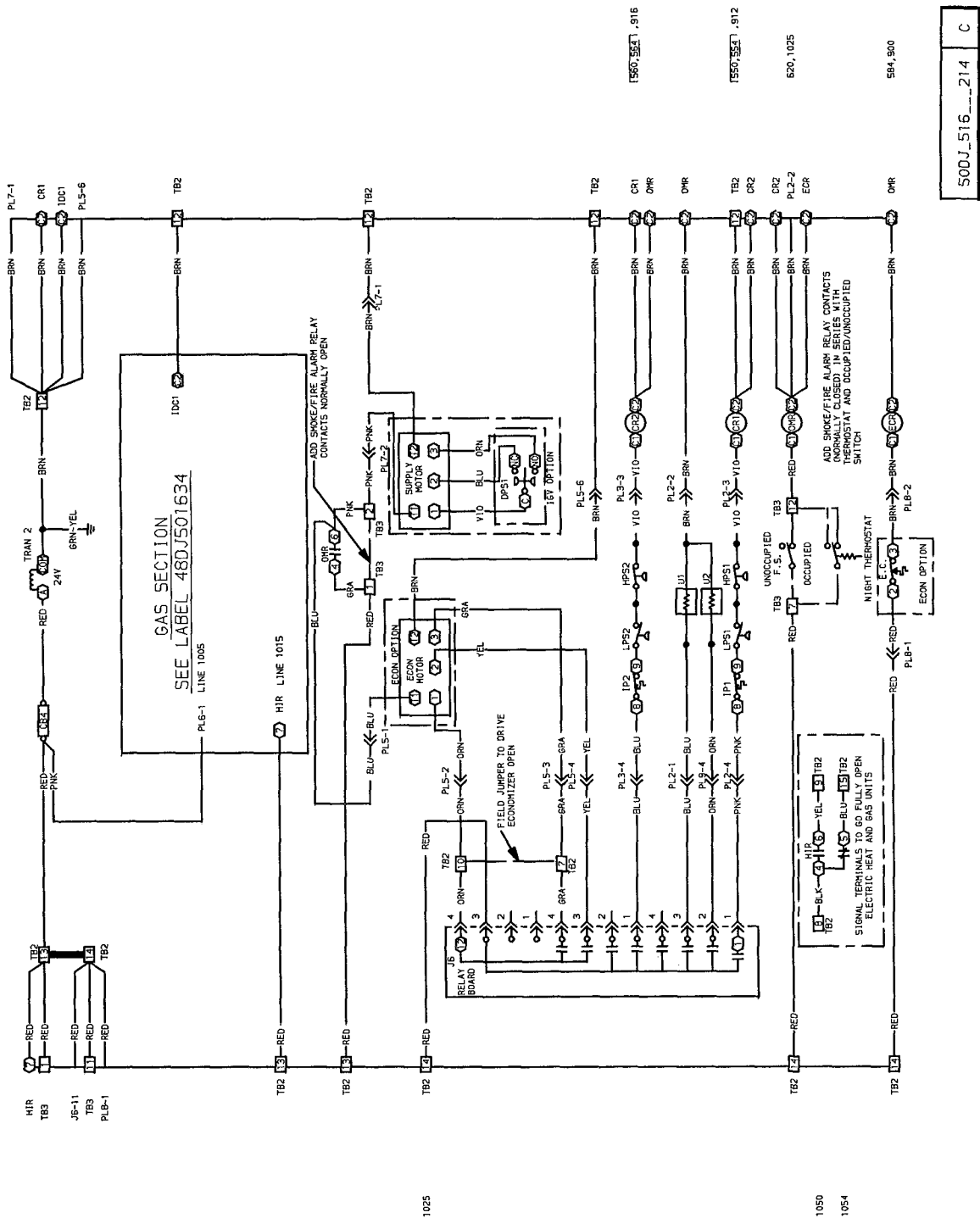
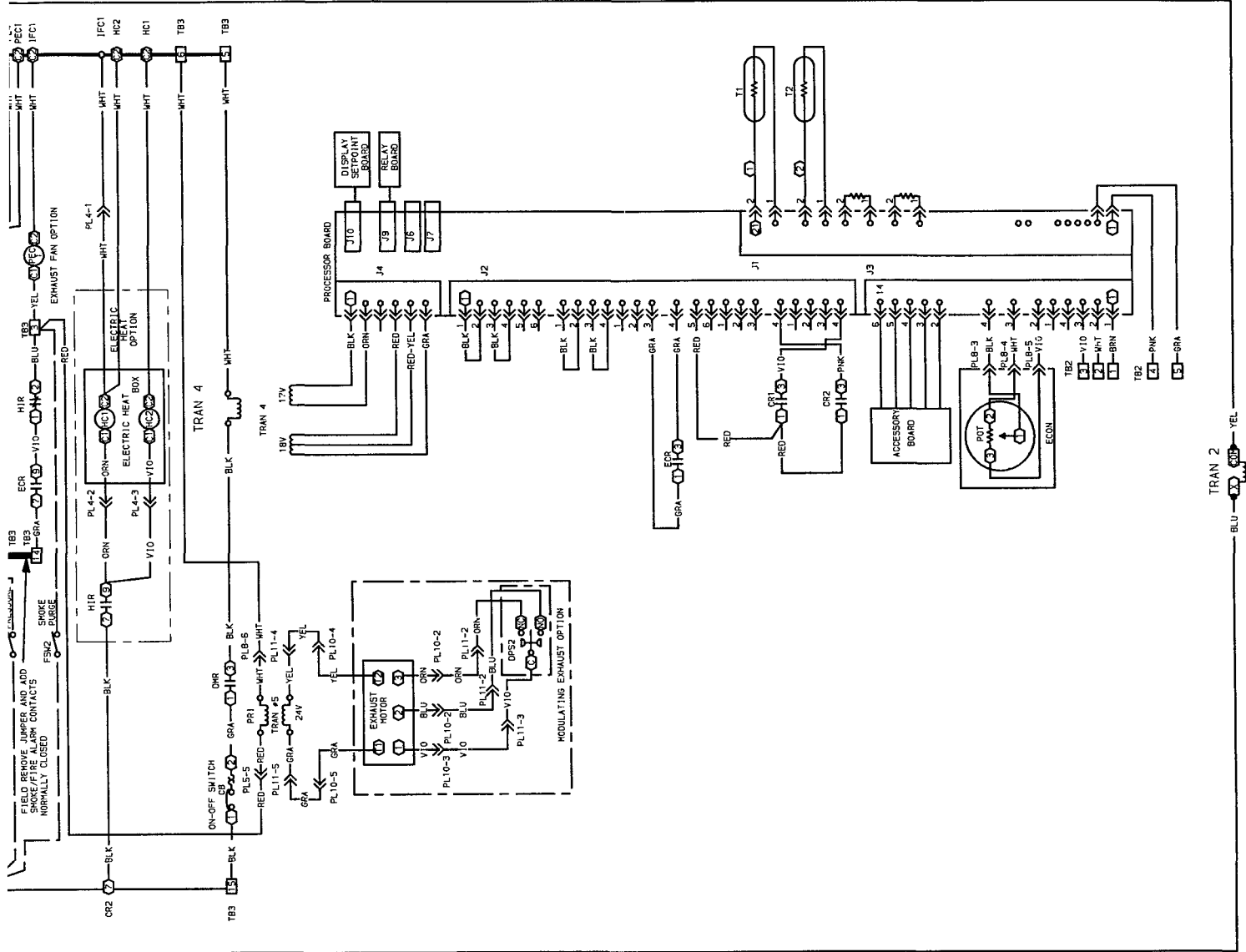


Fig. 5 — Label Diagram, Schematic, Models 48DK/50DK, DY024-030, 208-230, 460 Volt

500J_516_214 C

SEE ELECTRIC HEAT LABEL



584

600

620

900

912

916

Continued Below

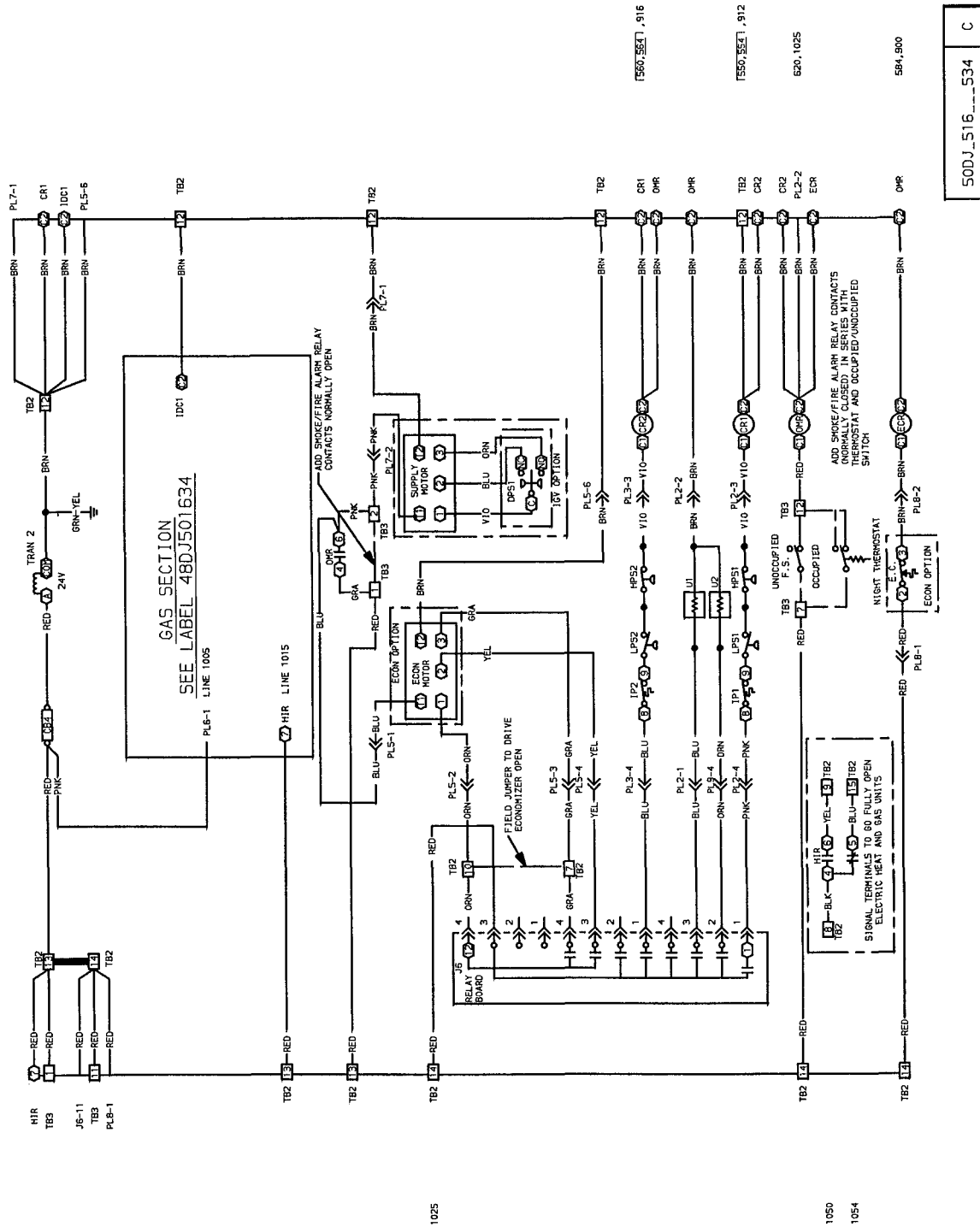
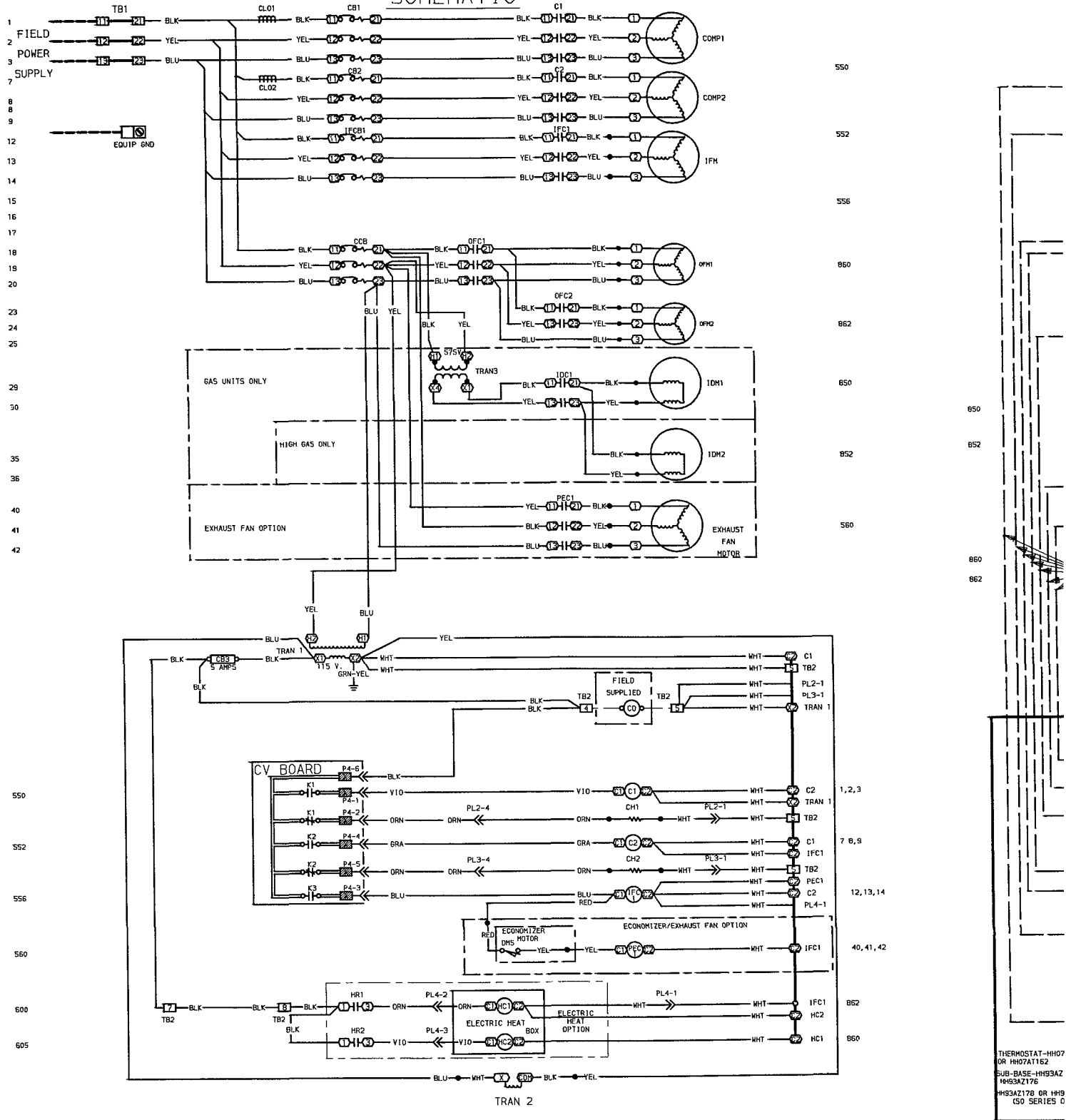


Fig. 6 — Label Diagram, Schematic, Models 48DK/50DK, DY024-030, 575 Volt

SCHEMATIC



THERMOSTAT-HH07
 OR HH07A1B2
 SUB-BASE-HH93AZ
 HH93AZ176
 HH93AZ178 OR HH9
 C50 SERIES 0

Fig. 7 — Label Diagram, Schematic, Models

SCHEMATIC

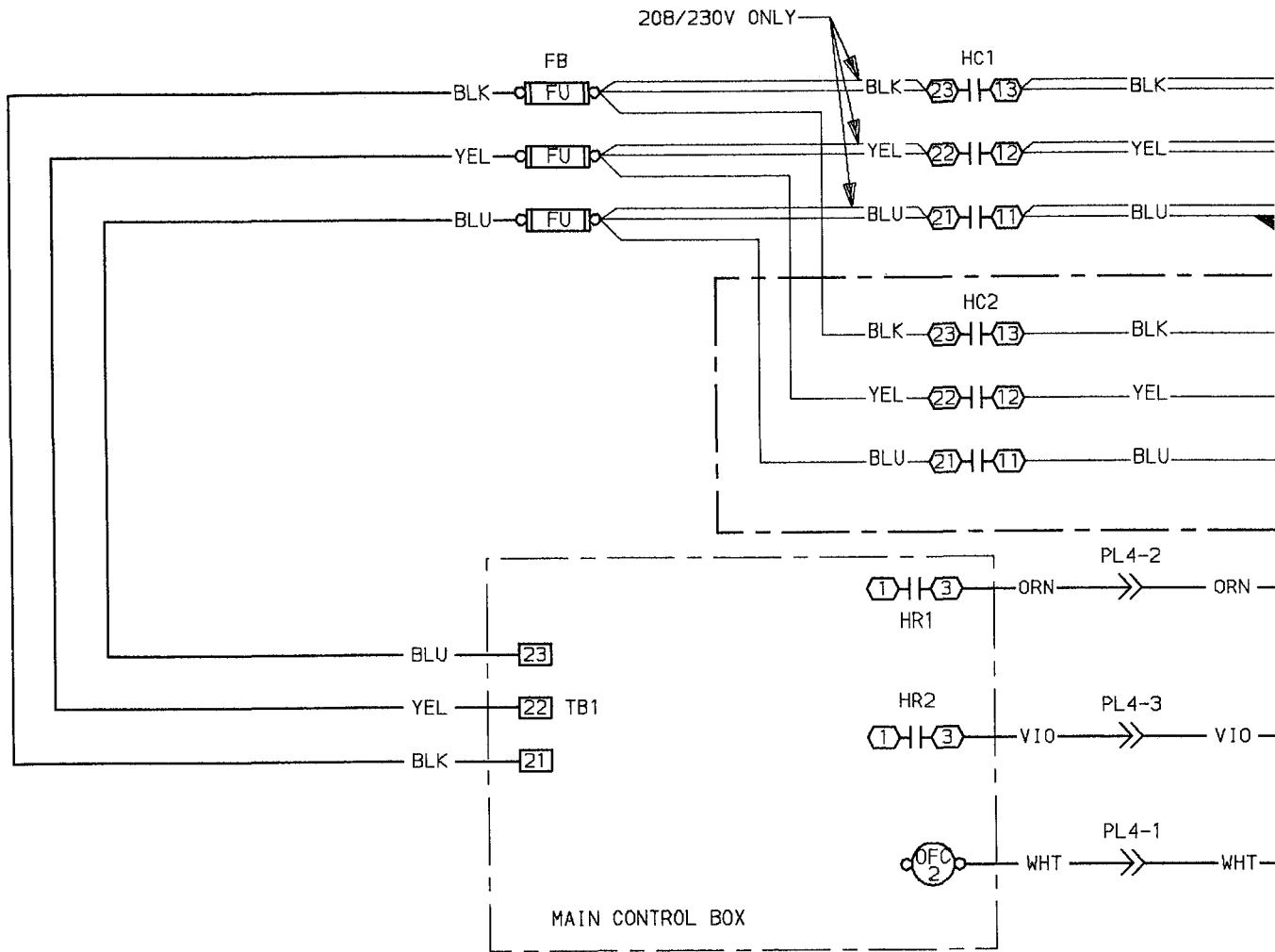
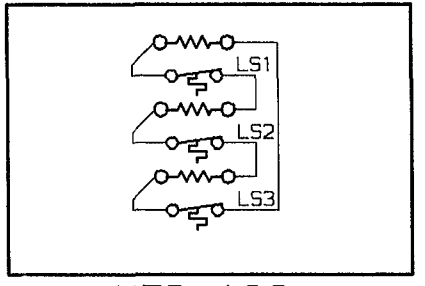
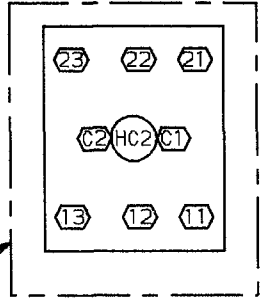
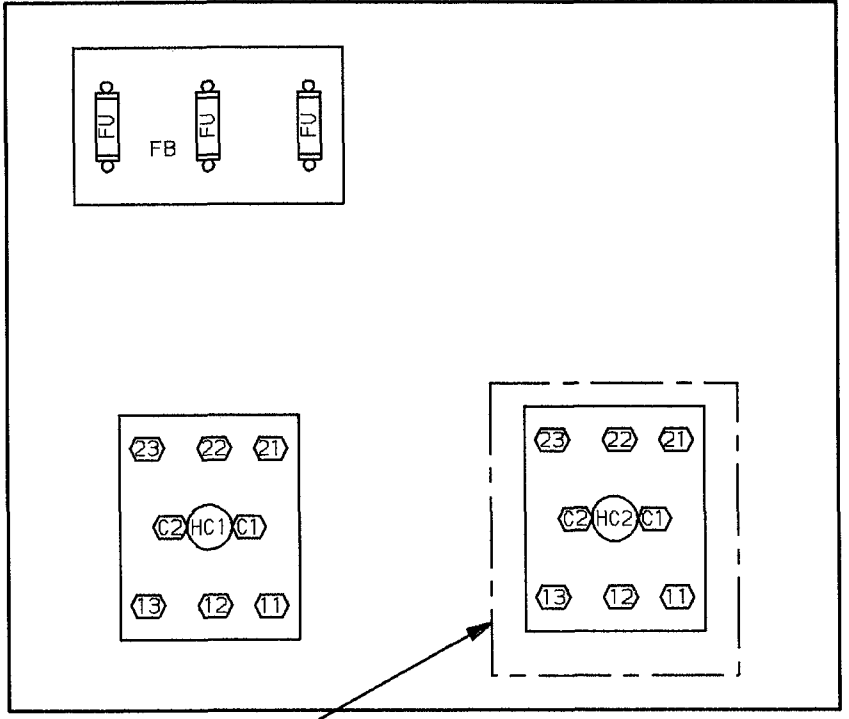
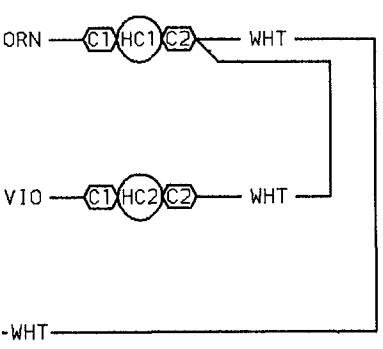
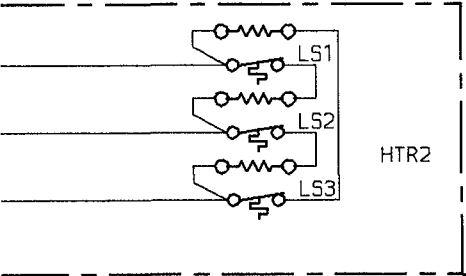
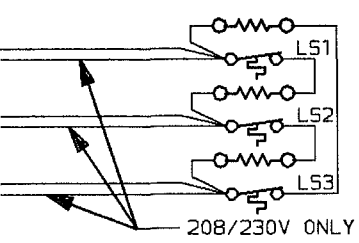


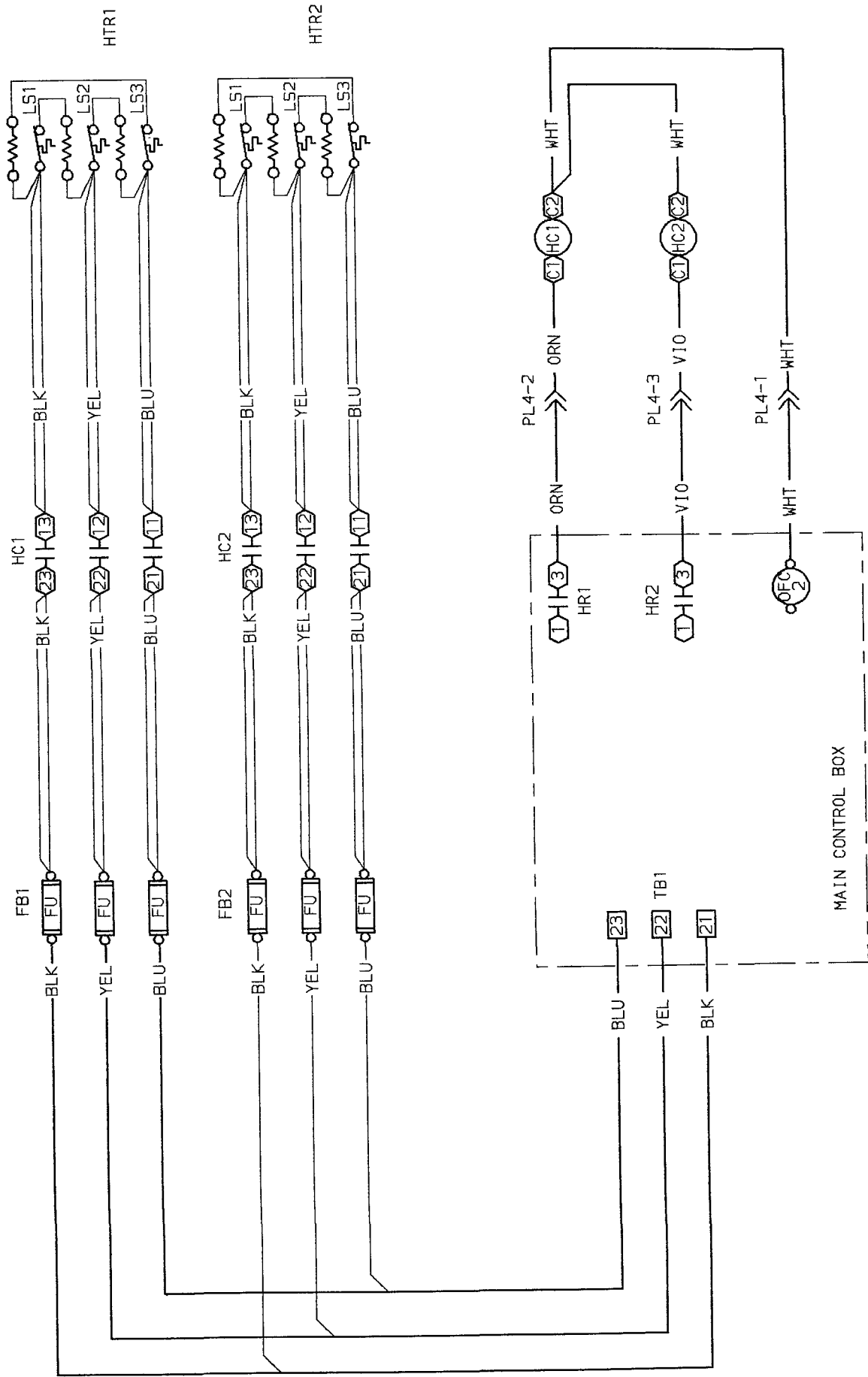
Fig. 8 — Label, Electric Heater, 18 kW — 36 kW — Models 5

COMPONENT ARRANGEMENT

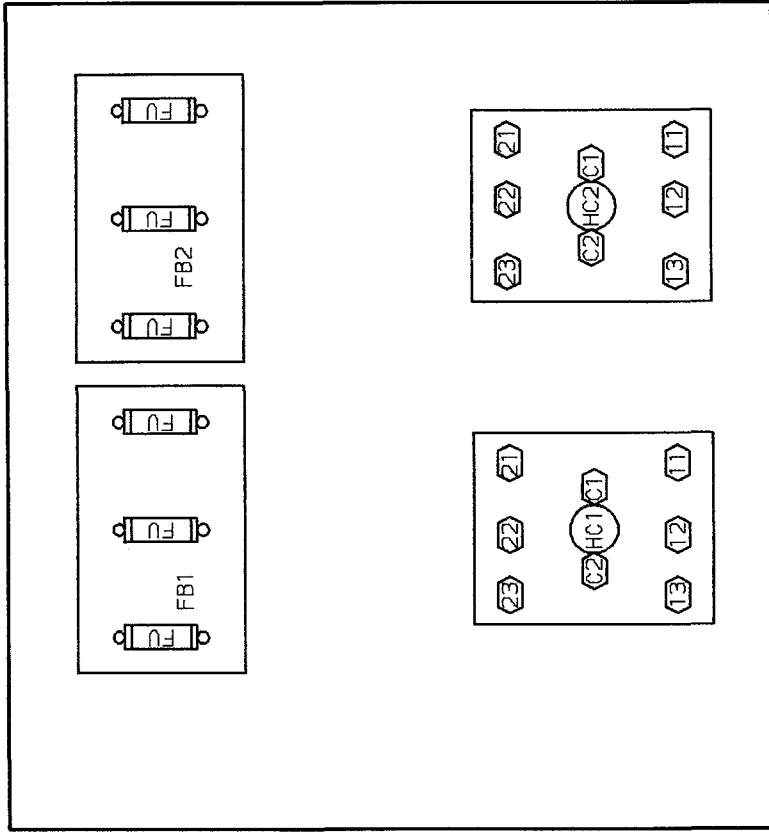


kW — Models 50DJ, DW024-030, 208/230 460 Volt;
 dels 50DJ, DW024-040, 460 Volt

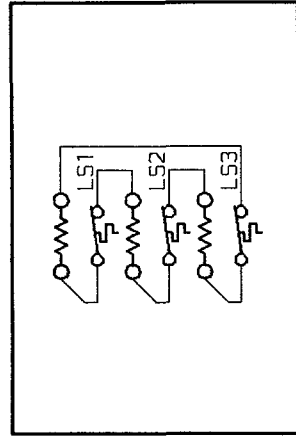
SCHEMATIC



COMPONENT ARRANGEMENT



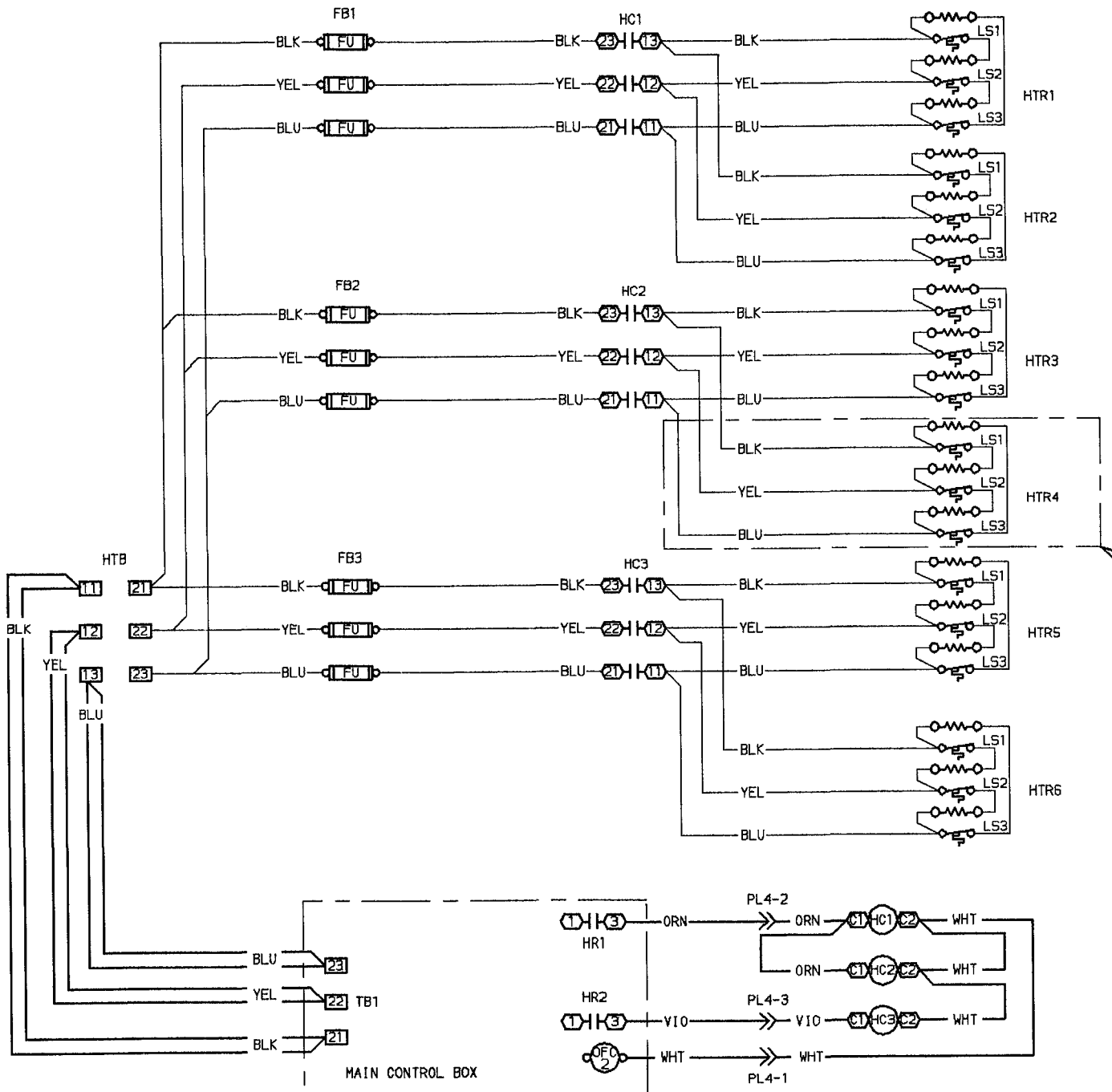
ELECTRIC HEAT BOX



HTR 1&2

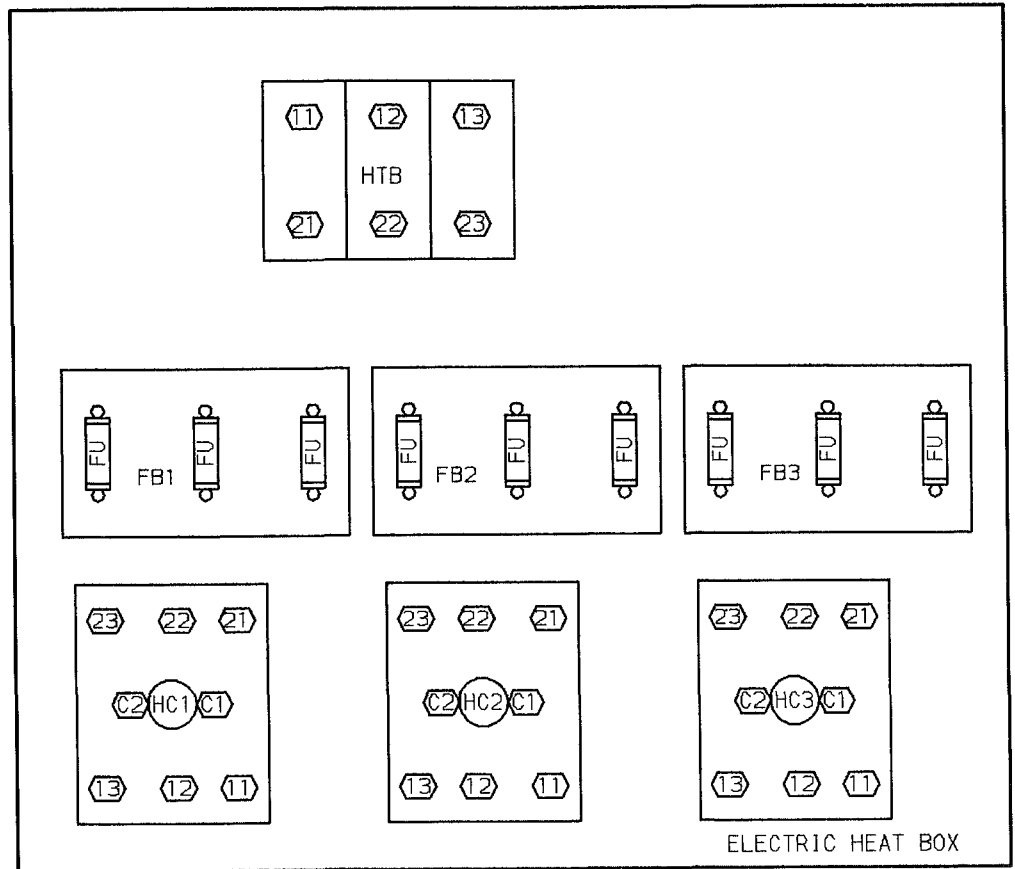
Fig. 9 — Label, Electric Heater, 36 kW — Models 50DJ, DW024-030, 208/230 Volt

SCHEMATIC

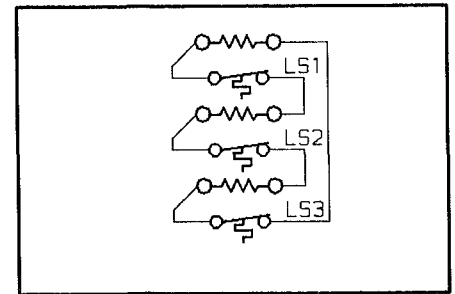


**Fig. 10 — Label, Electric Heater, 90 kW
108 kW — Model**

COMPONENT ARRANGEMENT



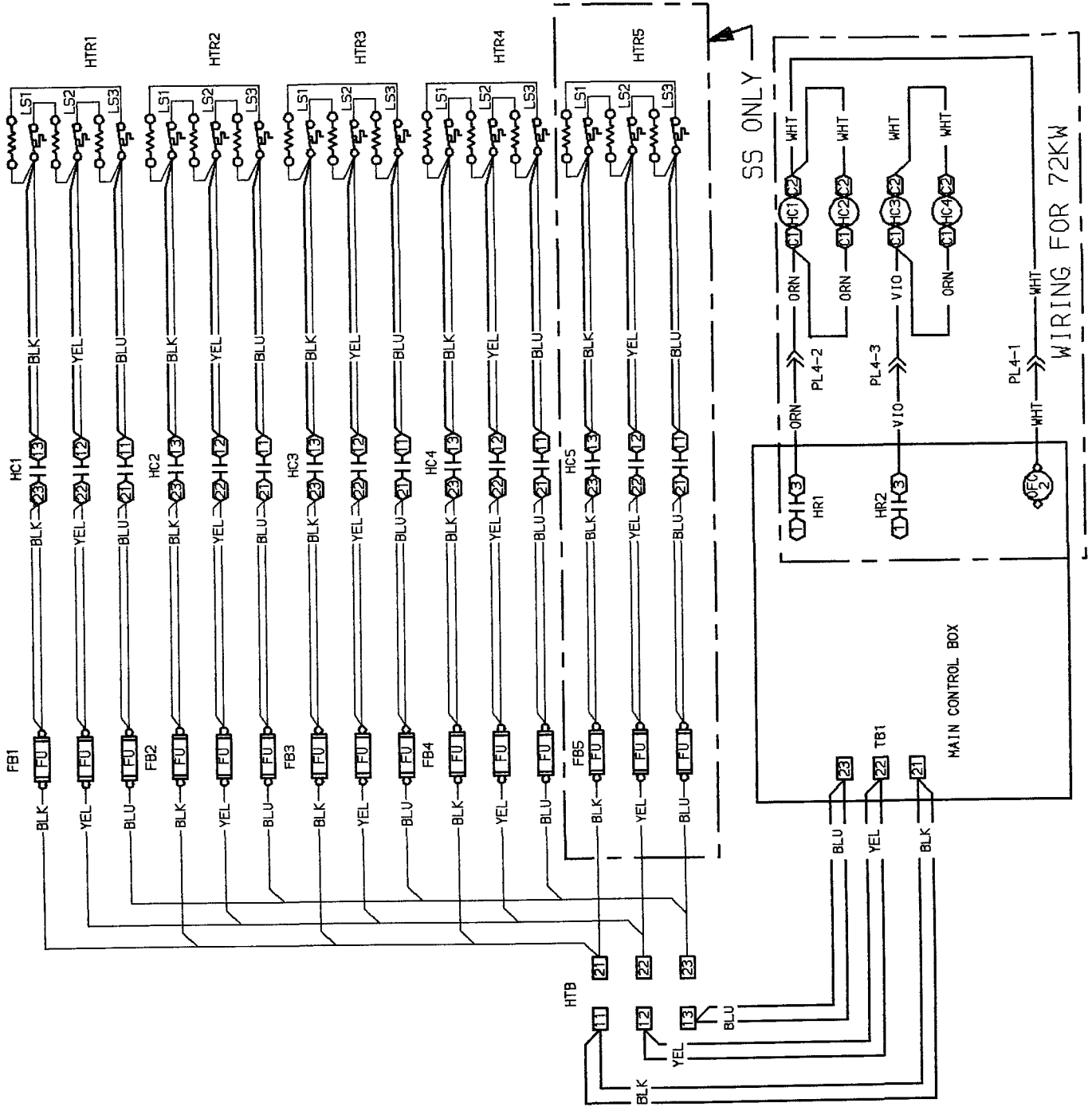
108KW ONLY



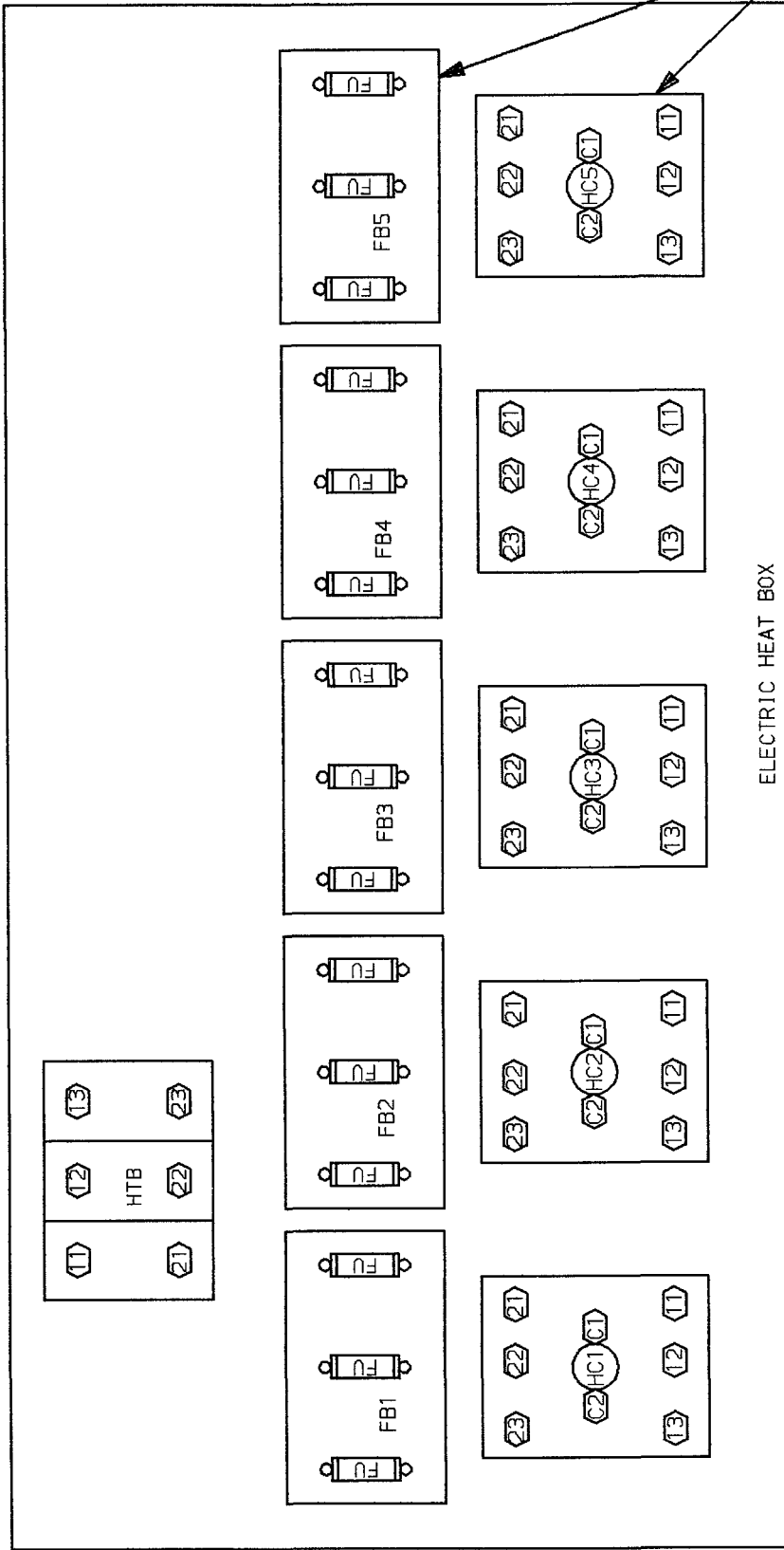
HTR 1-6

90 kW — Models 50DJ024-030, 50DW024, 460 Volt;
 Models 50DW028-030, 460 Volt

SCHEMATIC



COMPONENT ARRANGEMENT



SS ONLY

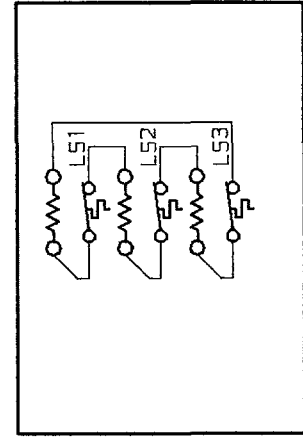
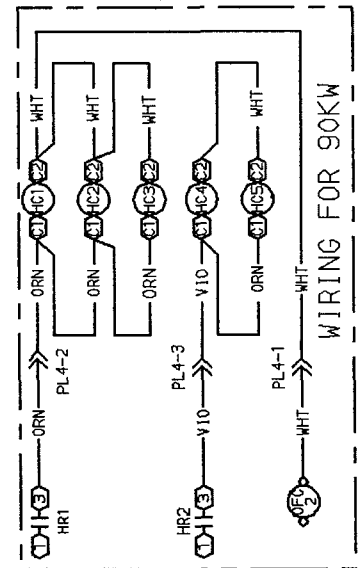


Fig. 11 — Label, Electric Heater, 72 kW — Models 50DJ024-030, 208/230 Volt;
90 kW — Models 50DW024-030, 208/230 Volt

SCHEMATIC

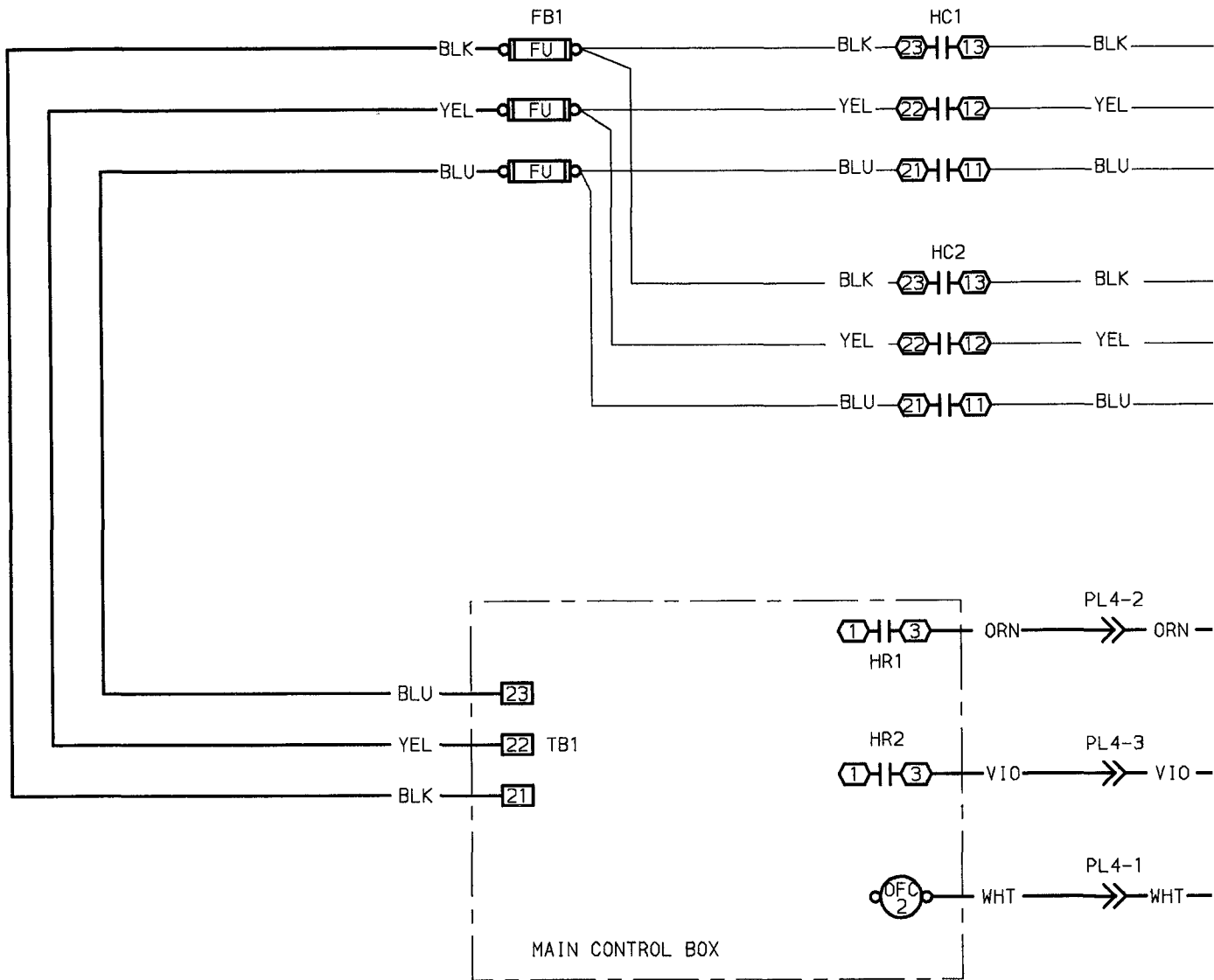
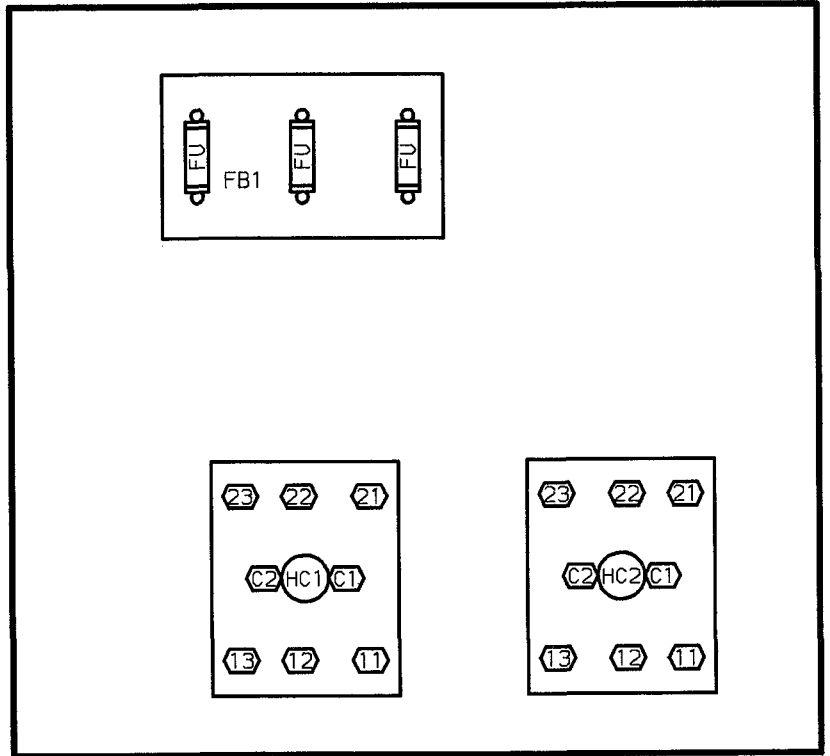
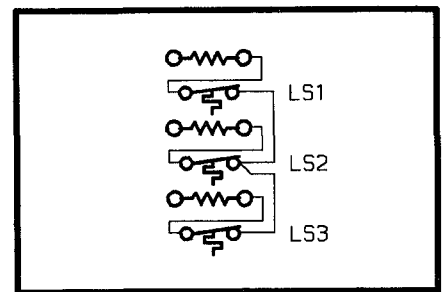


Fig. 12 — Label, Electric Heater, 36

COMPONENT ARRANGEMENT

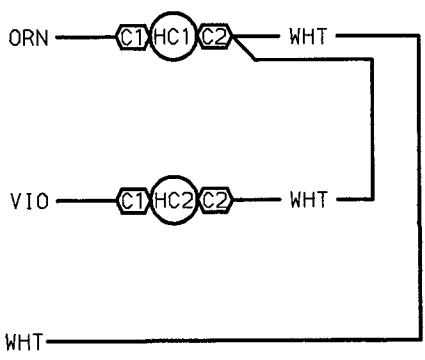
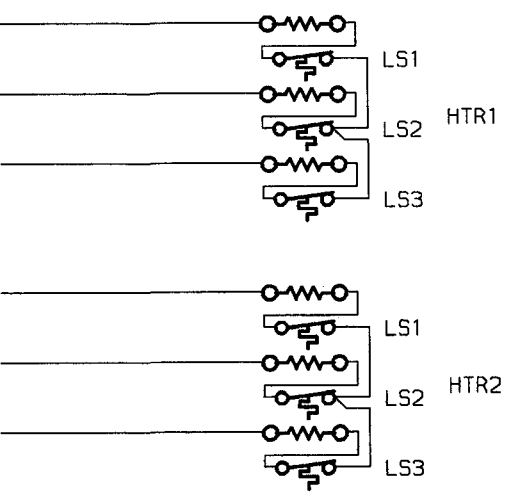


ELECTRIC HEAT BOX



HTR 1&2

50DJ516194	/
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r, 36 kW — Models 50DJ,DK,DW,DY024-030, 575 Volt

SCHEMATIC

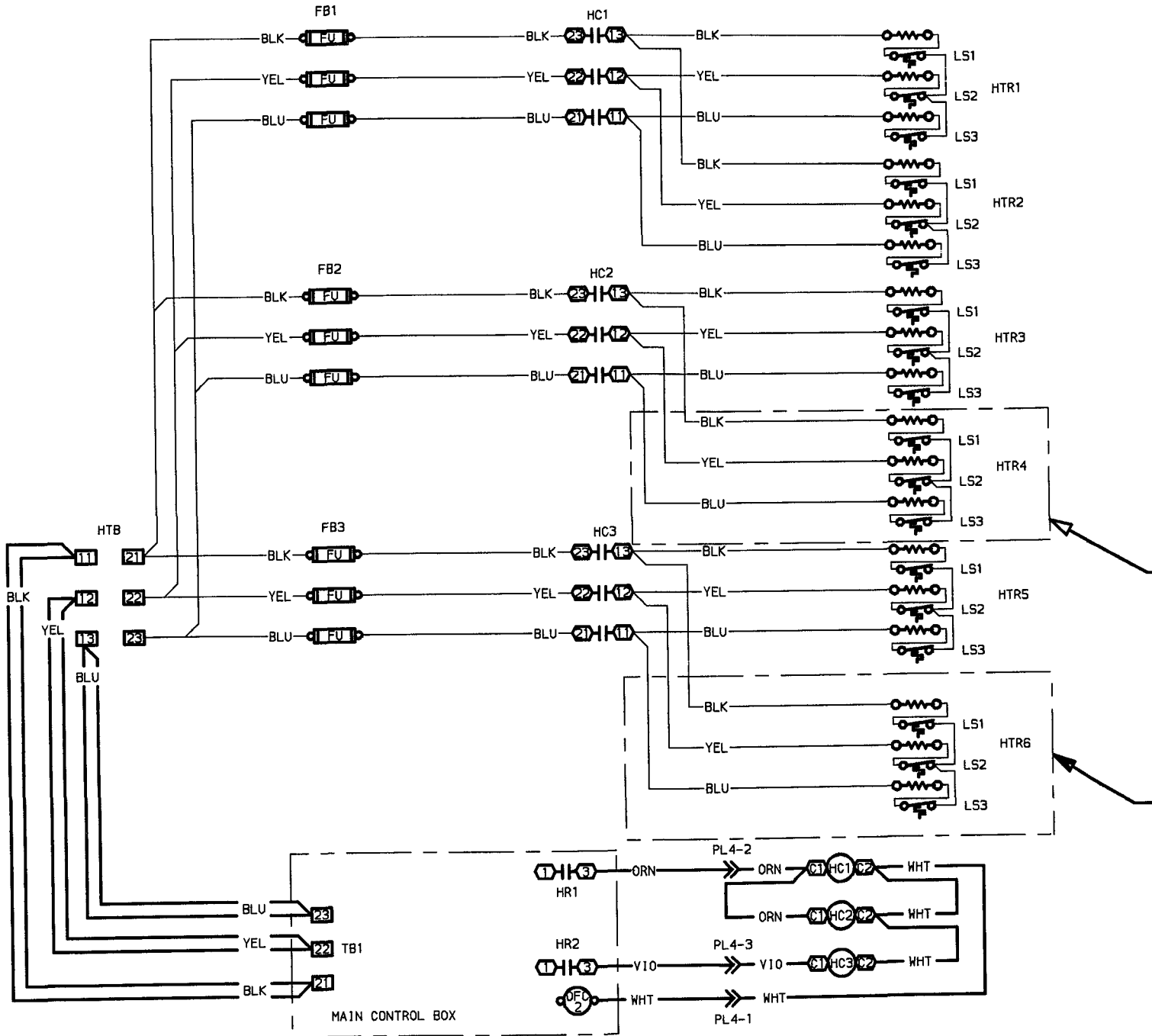
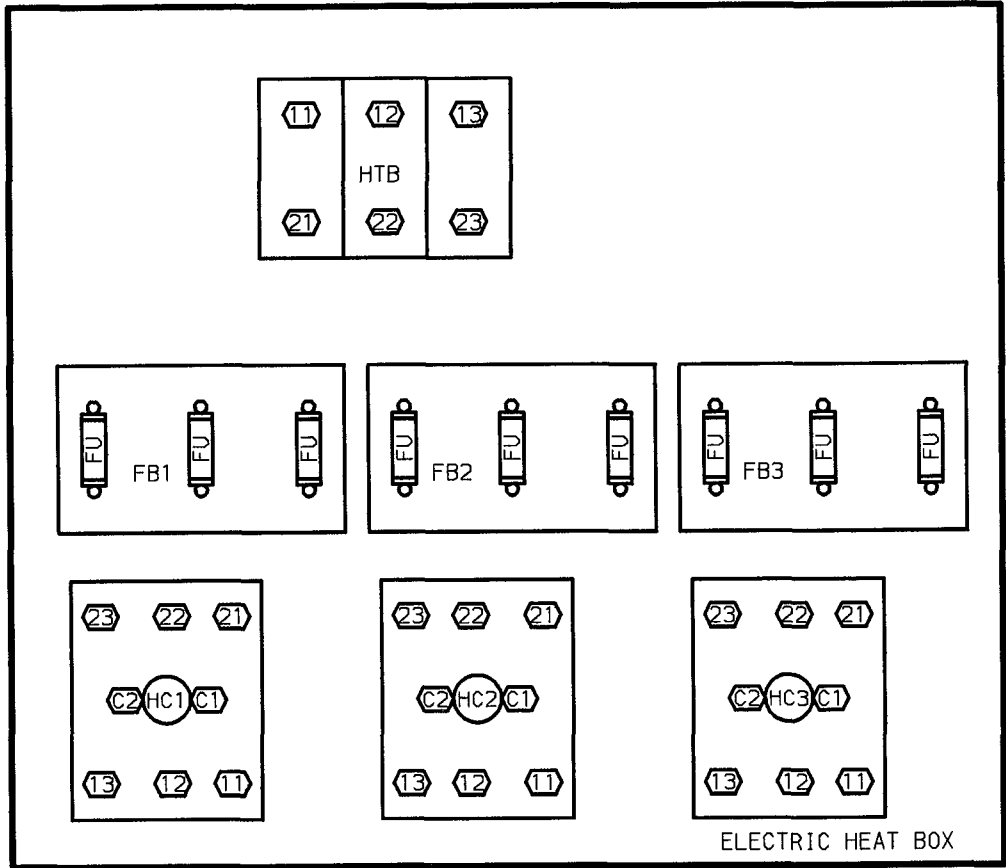


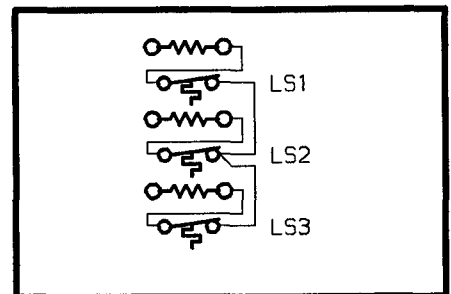
Fig. 13 — Label, Electric Heater, 72 kW — 90 kW — Models 50DW024, 575 Volt; 108 V

COMPONENT ARRANGEMENT



108KW ONLY

90 & 108KW ONLY



HTR 1-6

50DJ516204 /

2 kW — Models 50DJ024-030, 575 Volt;
 108 kW — Models 50DW028-030, 575 Volt

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