



**PACKAGED ROOFTOP
AIR CONDITIONING UNITS**

WIRING DIAGRAMS

New Release

Form 100.50-W1 (1005)

eco²

**50 - 105 TONS
MOD D**



00566vip

CHANGEABILITY OF THIS DOCUMENT

In complying with YORK's policy for continuous product improvement, the information contained in this document is subject to change without notice. While YORK makes no commitment to update or provide current information automatically to the manual owner, that information, if applicable, can be obtained by contacting the nearest YORK Applied Systems office.

It is the responsibility of operating/service personnel to verify the applicability of these documents to the equipment in question. If there is any question in the mind of operating/service personnel as to the applicability of these documents, then prior to working on the equipment, they should verify with the owner whether the equipment has been modified and if current literature is available.

INTRODUCTION

This manual contains the wiring diagrams for the YPAL 50 to 105 ton Mod D products and is intended to be used in conjunction with the unit IOM, Form 100.50-NOM4. In accordance with the statement above, the labels on the unit take precedence over these diagrams.

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ELEMENTARY DIAGRAM CONTROL PANEL 50-65 TON MOD-D

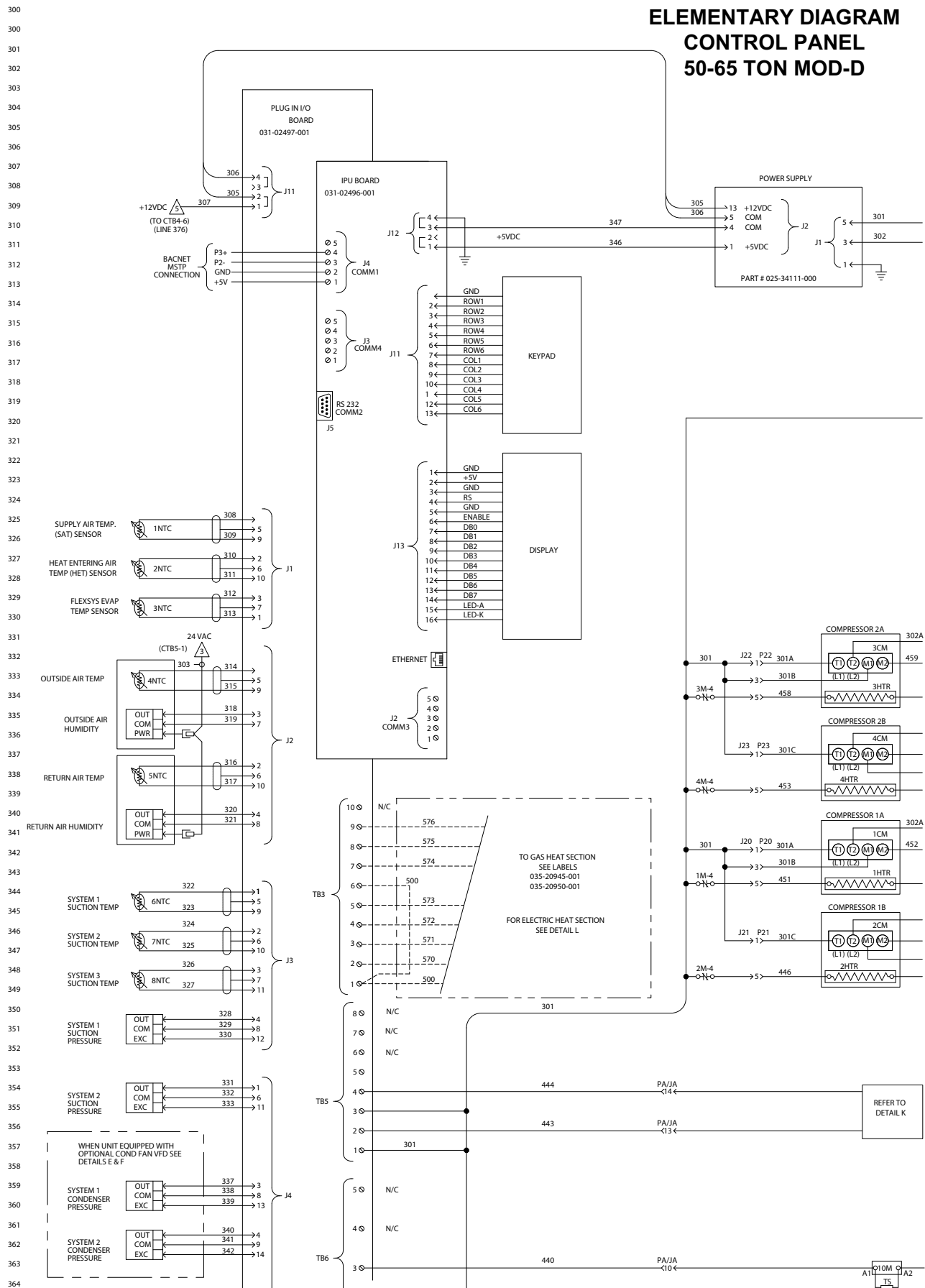
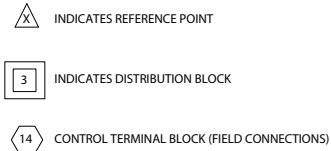
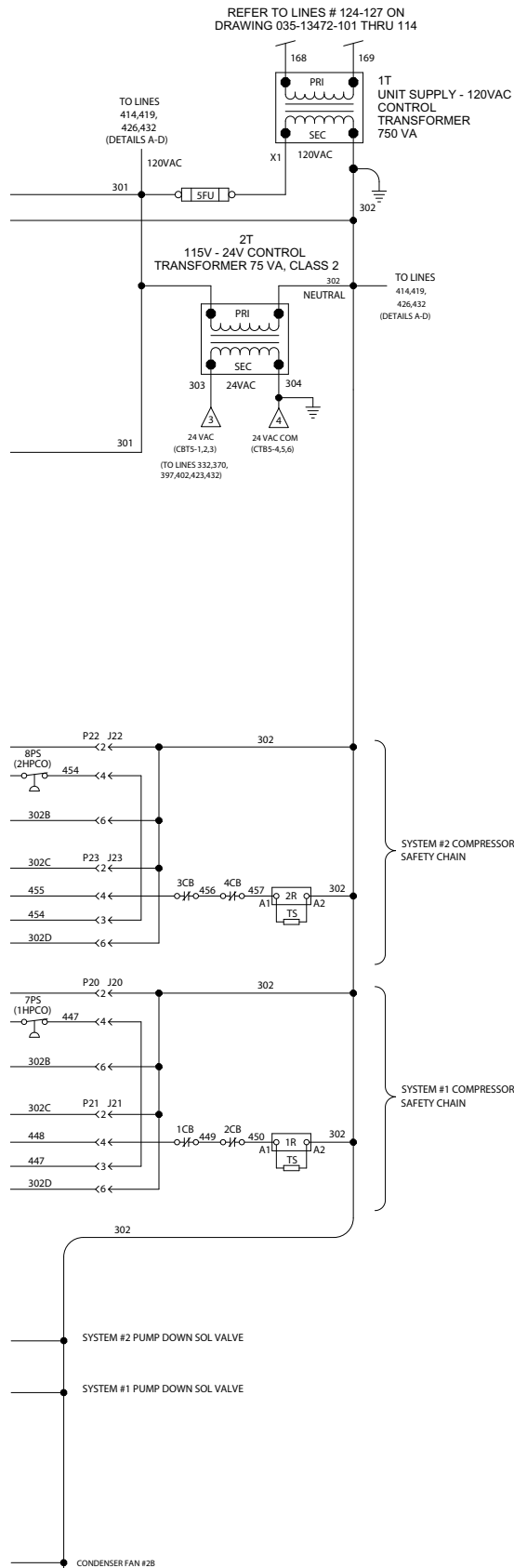


FIG. 1 – CONTROL PANEL, 50-65 TON, MOD D (ENLARGED VIEW #1)

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- LEGEND:
- FU - FUSE
 - NTC - THERMISTOR
 - PS - PRESSURE SWITCH
 - STAT - THERMOSTAT
 - SW - TOGGLE SWITCH
 - T - TRANSFORMER
 - TB - TERMINAL BLOCK
 - TS - TRANSIENT SUPPRESSOR
 - VFD - VARIBABLE FREQUENCY DRIVE
 - CM - COMPRESSOR MIDULE
 - HTR - CRANKCASE HEATER
 - CTB - CONTROL TERMINAL BLOCK
 - ACTB - ACTUATOR

CTB1 CONNECTIONS		
TERMINAL #	REFERENCE DESIGNATOR	DESCRIPTION
1	24V	24 VAC
2	COM	24 VAC COM
3	24V	24 VAC
4	SD	SHUTDOWN
5	OCC	OCC/UNOCC
6	SMK1	SMOKE PURGE 1
7	SMK2	SMOKE PURGE 2
8	SMK3	SMOKE PURGE 3
9	G	FAN (G)
10	Y1	Y1
11	Y2	Y2
12	W1	W1
13	W2	W2
14	ZT+	ZONE TEMP SENSOR +
15	ZT-	ZONE TEMP SENSOR -
16	SHLD	SHIELD (GND)
17	SLB+	FLEXSYS SLAB SENSOR +
18	SLB-	FLEXSYS SLAB SENSOR -
19	SHLD	SHIELD (GND)
20	URH+	FLEXSYS UNDERFLOOR RH +
21	URH-	FLEXSYS UNDERFLOOR RH -
22	+5V	SAT SP +5V
23	SAT+	SAT SP INPUT
24	SAT-	SAT SP COMMON
25	+5V	DUCT STATIC SP +5V
26	DSP+	DUCT STATIC SP INPUT
27	DSP-	DUCT STATIC SP COMMON
28	AL1C	ALARM 1 OUTPUT COM
29	AL1	ALARM 1 OUTPUT N.O.
30	AL2C	ALARM 2 OUTPUT COM
31	AL2	ALARM 2 OUTPUT N.O.
32	AL3C	ALARM 3 OUTPUT COM
33	AL3	ALARM 3 OUTPUT N.O.
34	HRC	VAV HEAT OUTPUT COM
35	HR	VAV HEAT OUTPUT N.O.

DETAIL G

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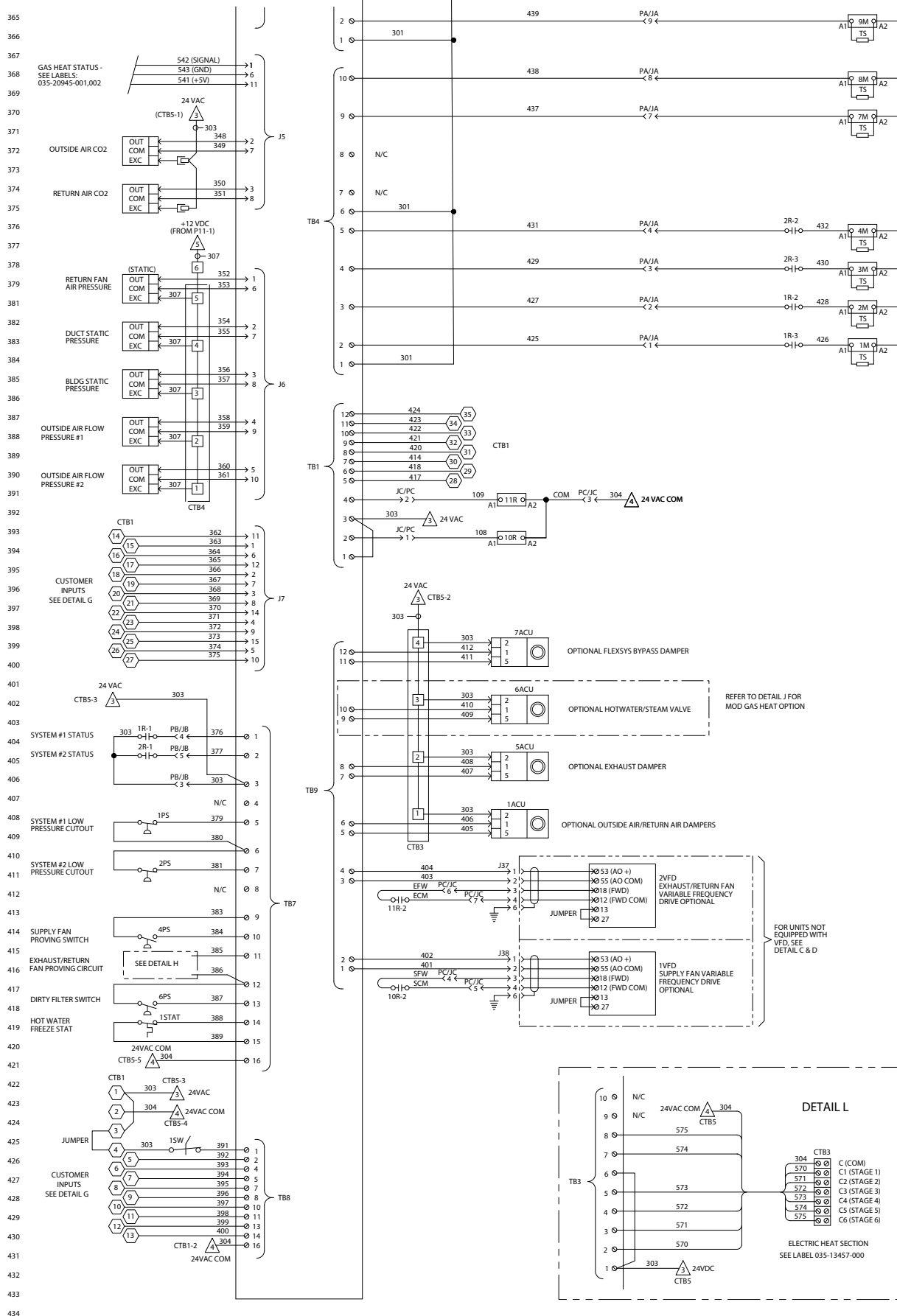
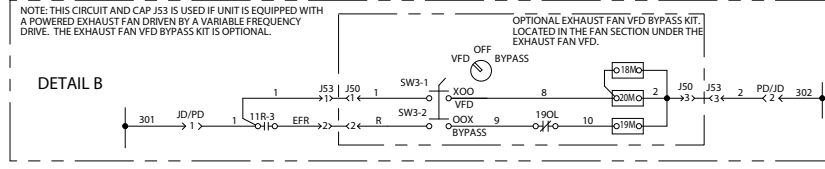
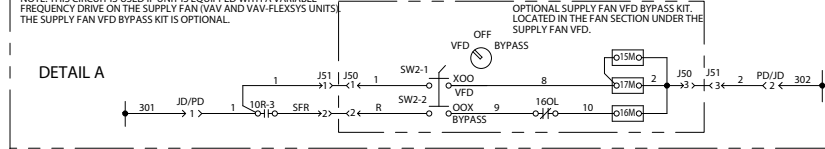
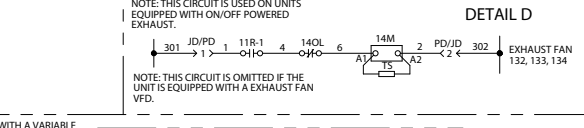
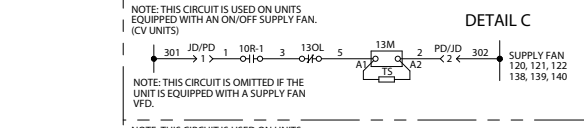
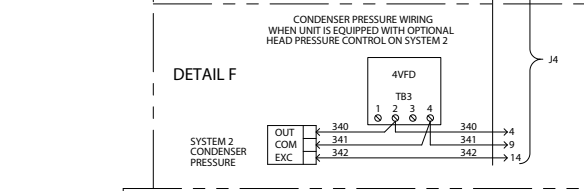
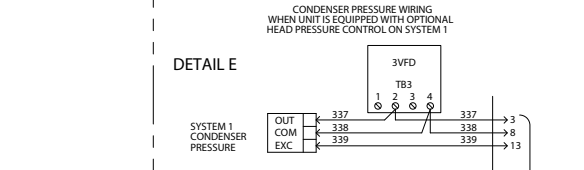
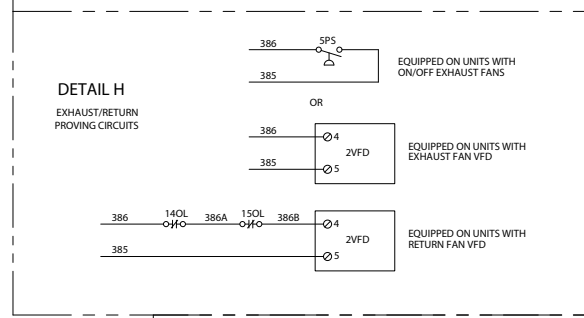
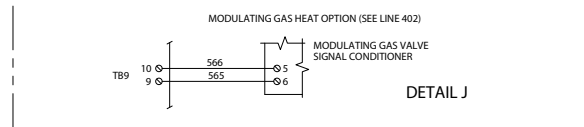
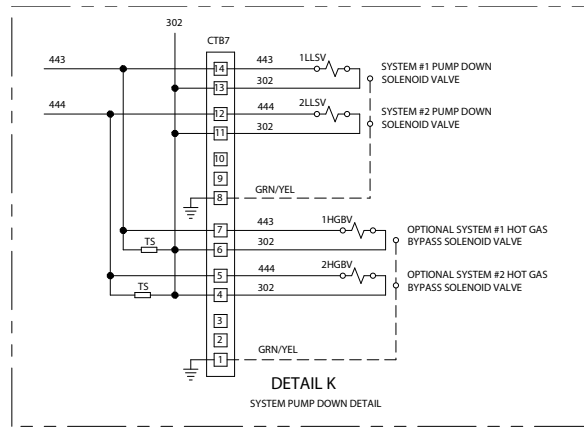
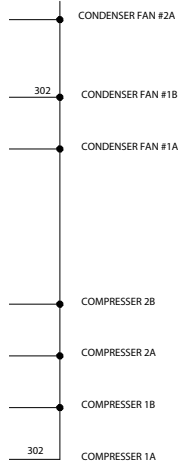


FIG. 1 – CONTROL PANEL, 50-65 TON, MOD D (ENLARGED VIEW #2)

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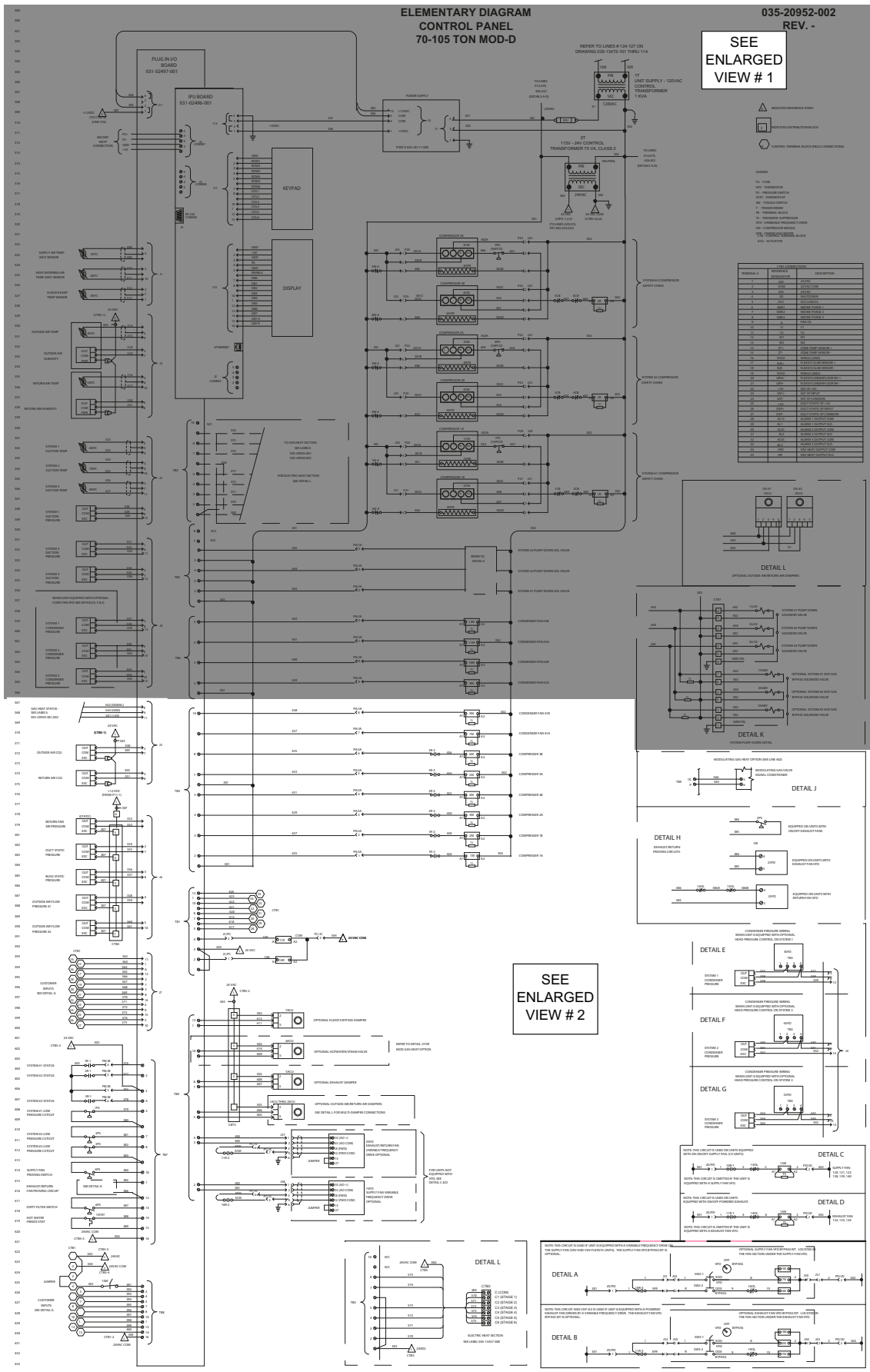
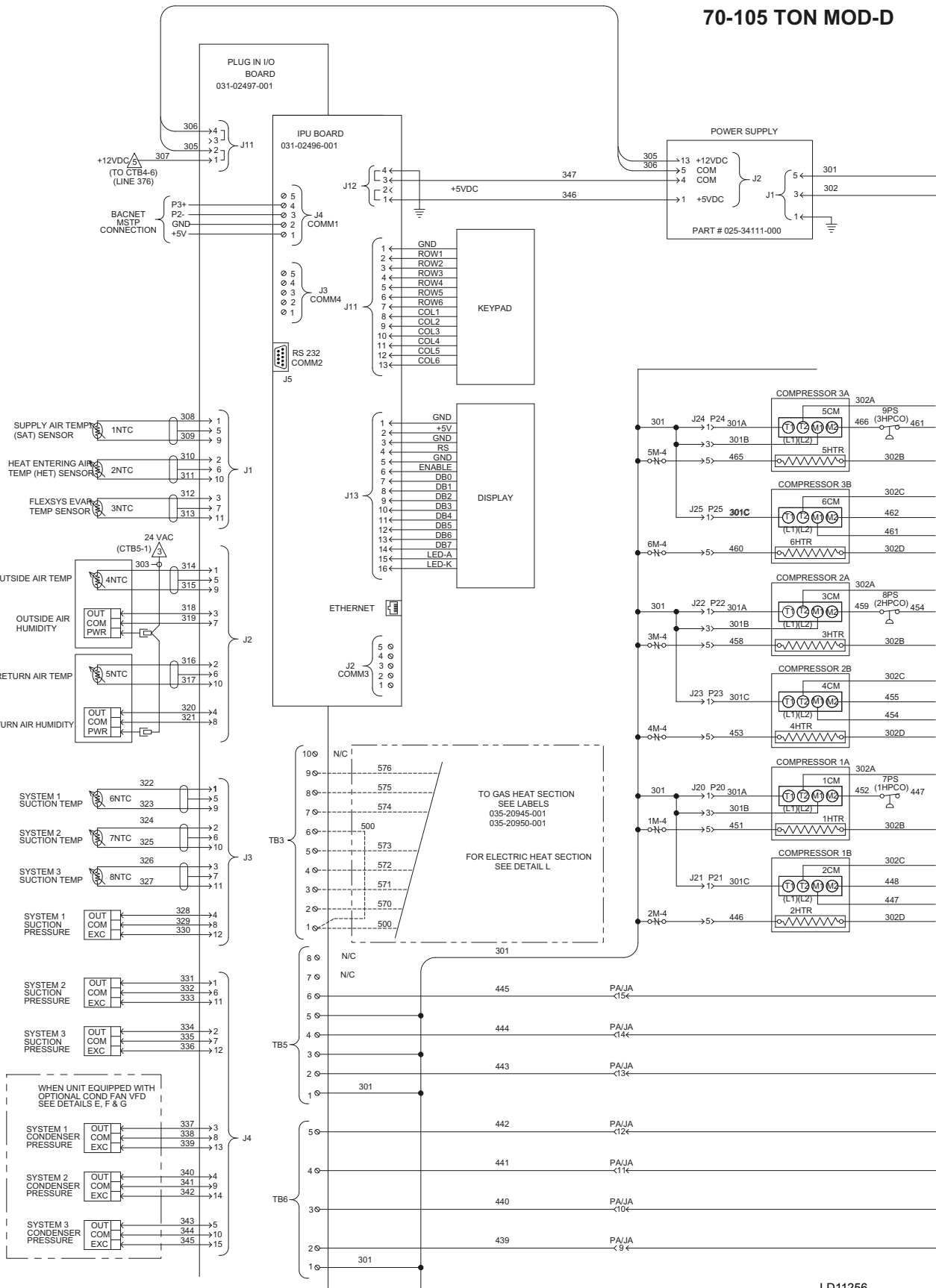


FIG. 2 – CONTROL PANEL, 70-105 TON, MOD D

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ELEMENTARY DIAGRAM CONTROL PANEL 70-105 TON MOD-D

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FIG. 2 – CONTROL PANEL, 70-105 TON, MOD D (ENLARGED VIEW #1)

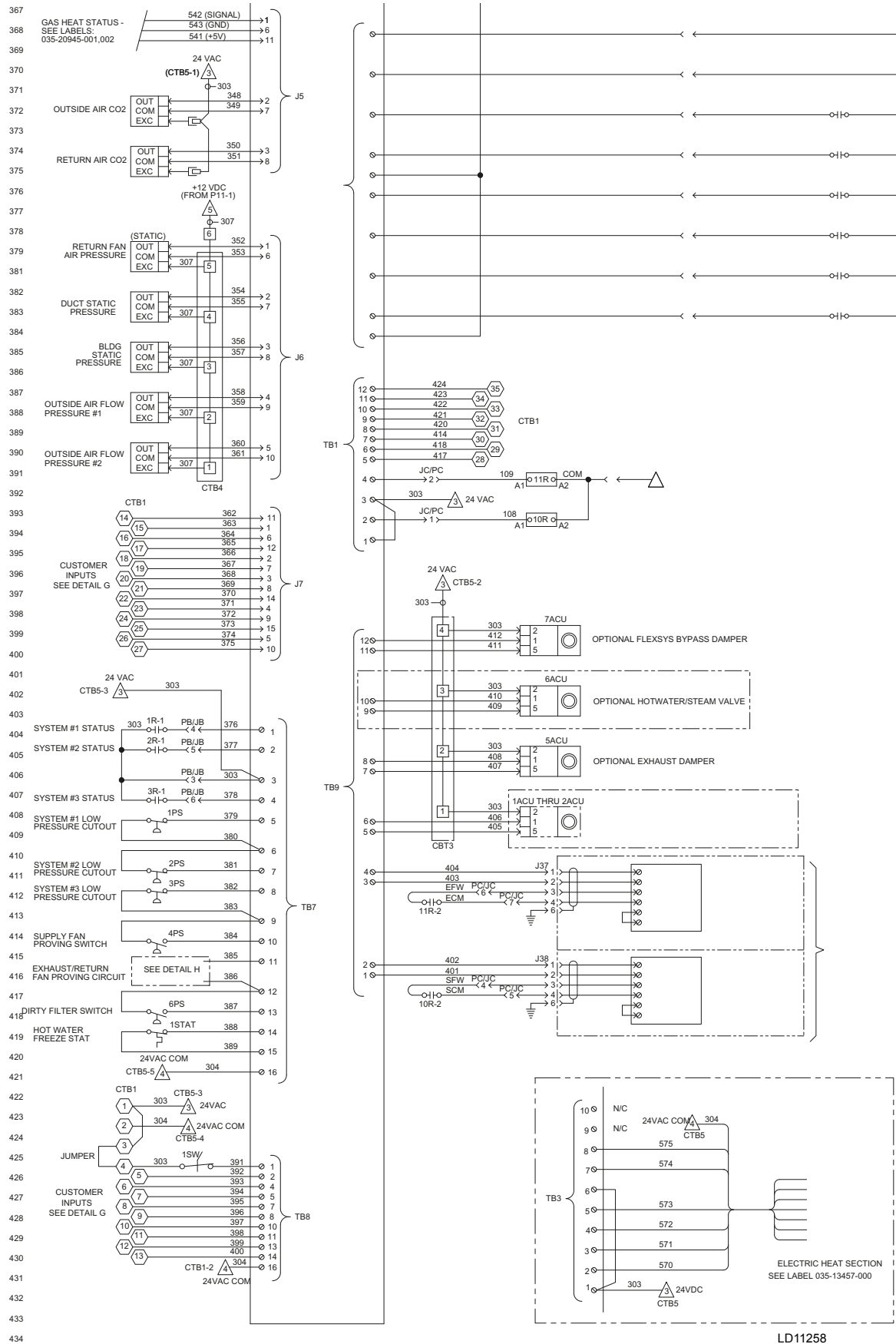
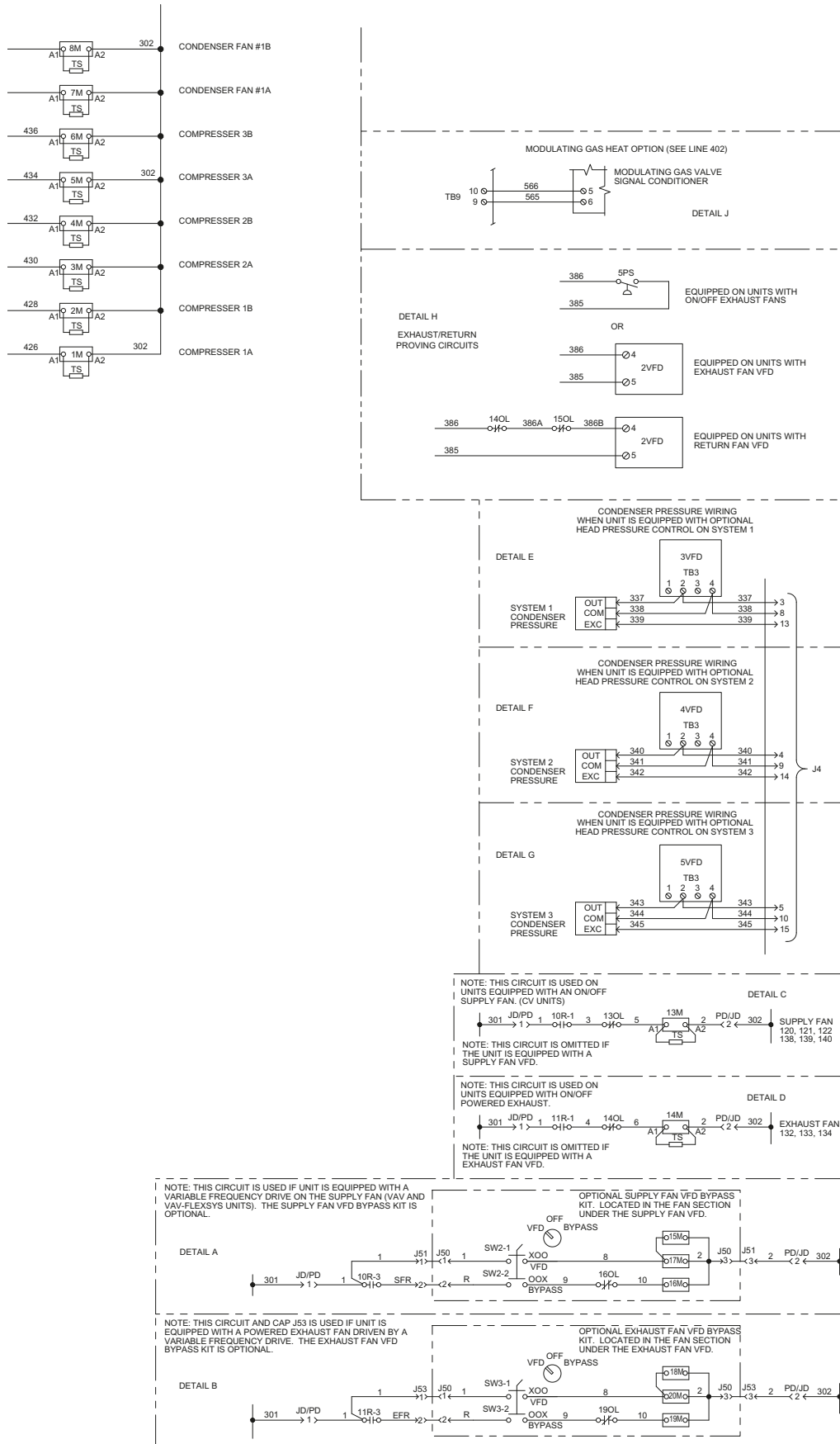


FIG. 2 – CONTROL PANEL, 70-105 TON, MOD D (ENLARGED VIEW #2)



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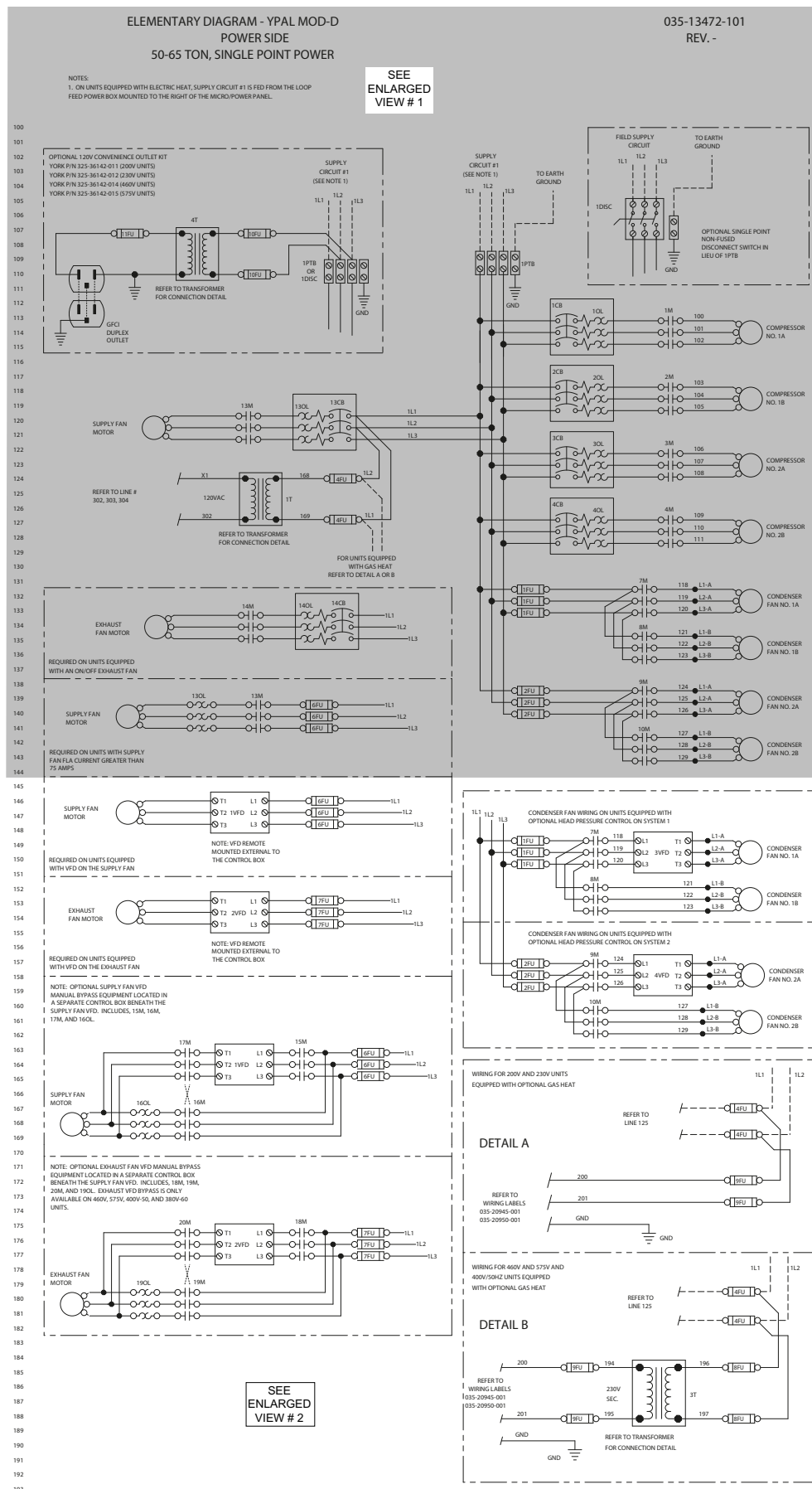


FIG. 3 – YPAL MOD-D POWER SIDE, 50-65 TON, SINGLE POINT POWER

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ELEMENTARY DIAGRAM - YPAL MOD-D POWER SIDE 50-65 TON, SINGLE POINT POWER

NOTES:

1. ON UNITS EQUIPPED WITH ELECTRIC HEAT, SUPPLY CIRCUIT #1 IS FED FROM THE LOOP FEED POWER BOX MOUNTED TO THE RIGHT OF THE MICRO/POWER PANEL.

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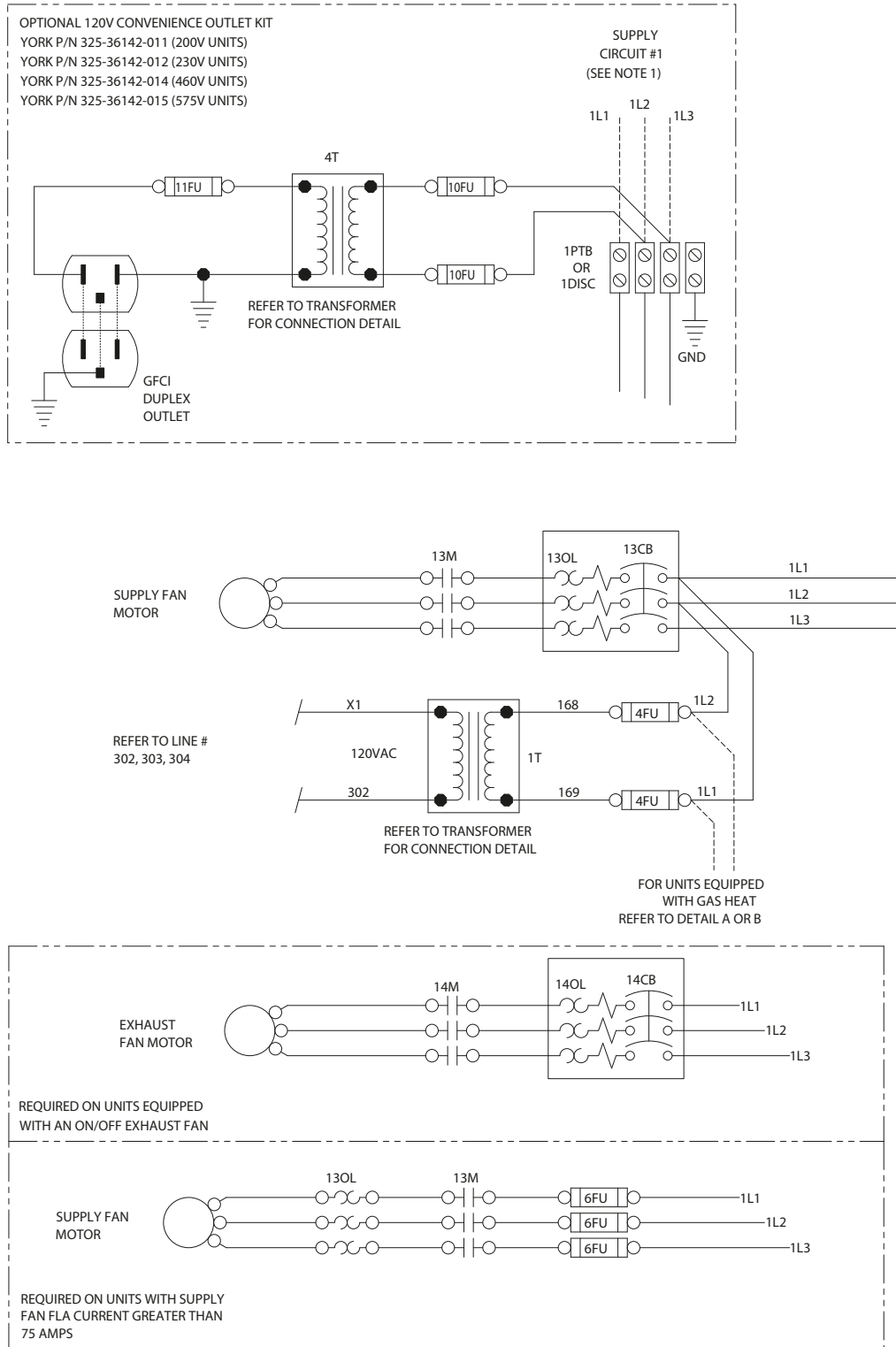
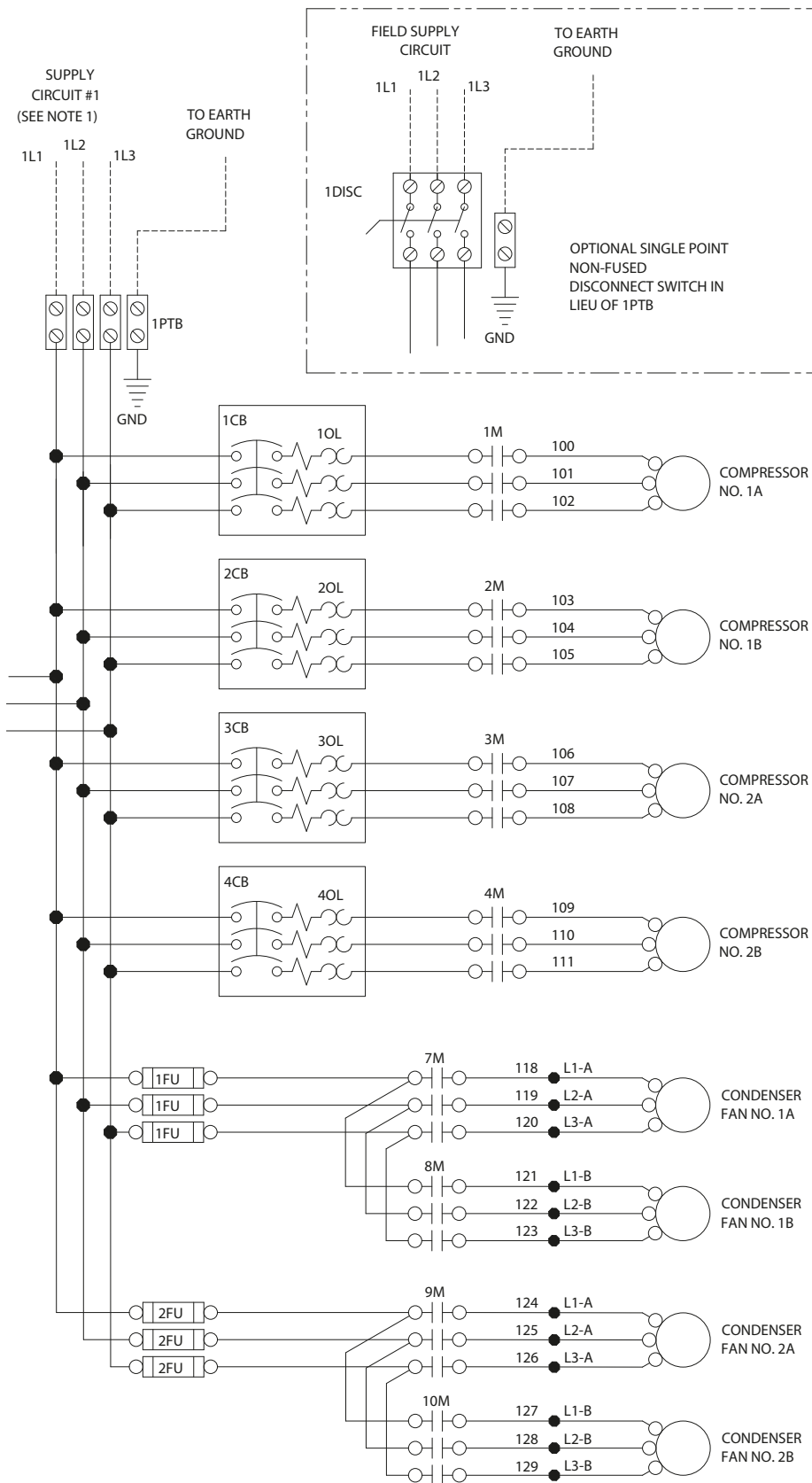


FIG. 3 – YPAL MOD-D POWER SIDE, 50-65 TON, SINGLE POINT POWER (ENLARGED VIEW #1)

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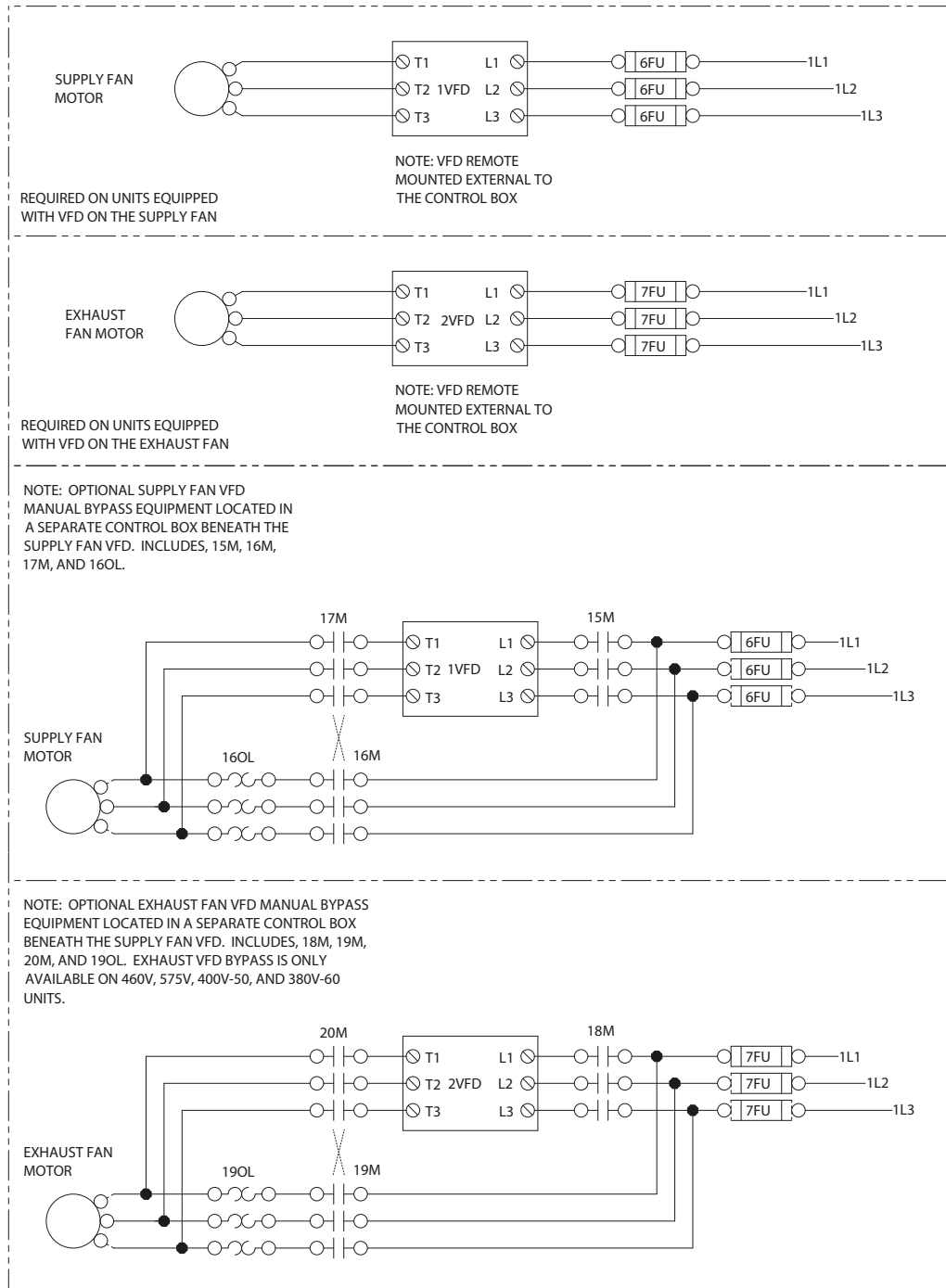
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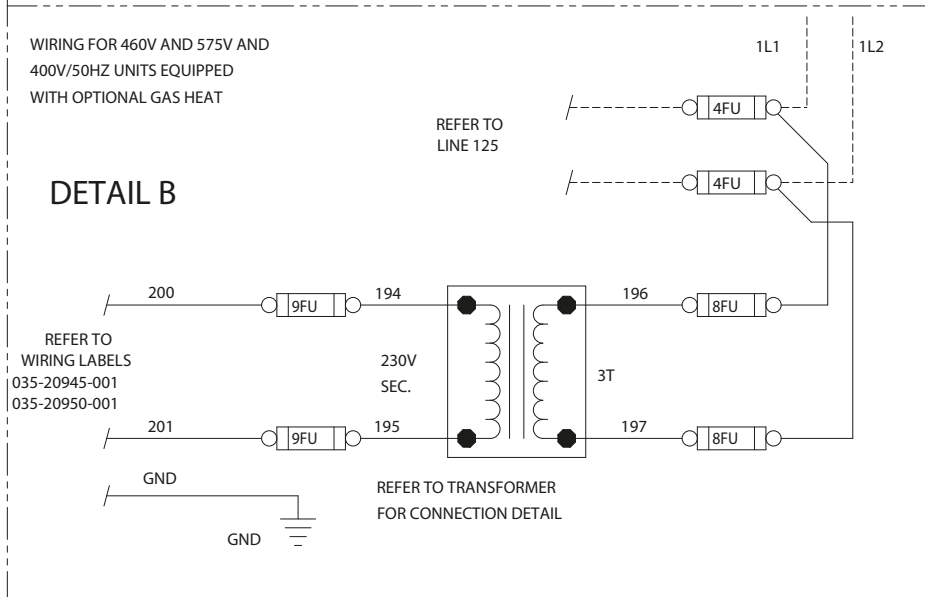
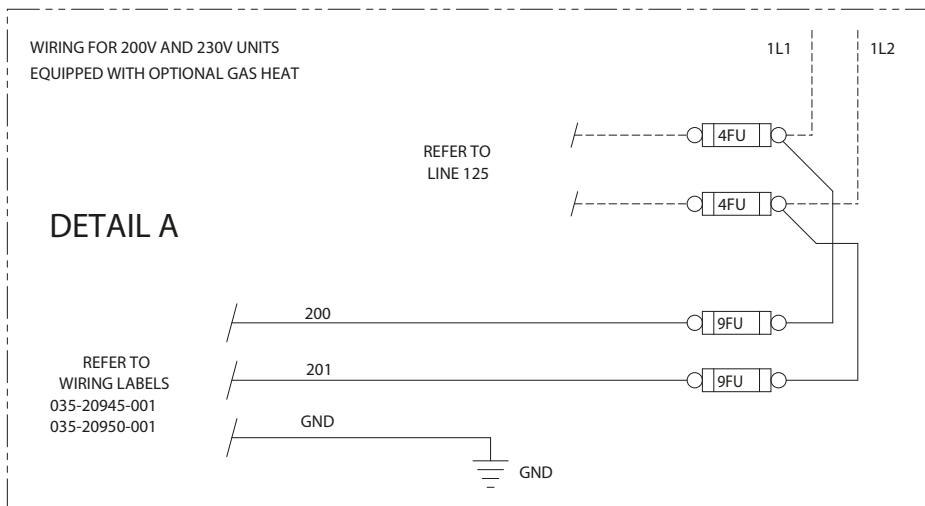
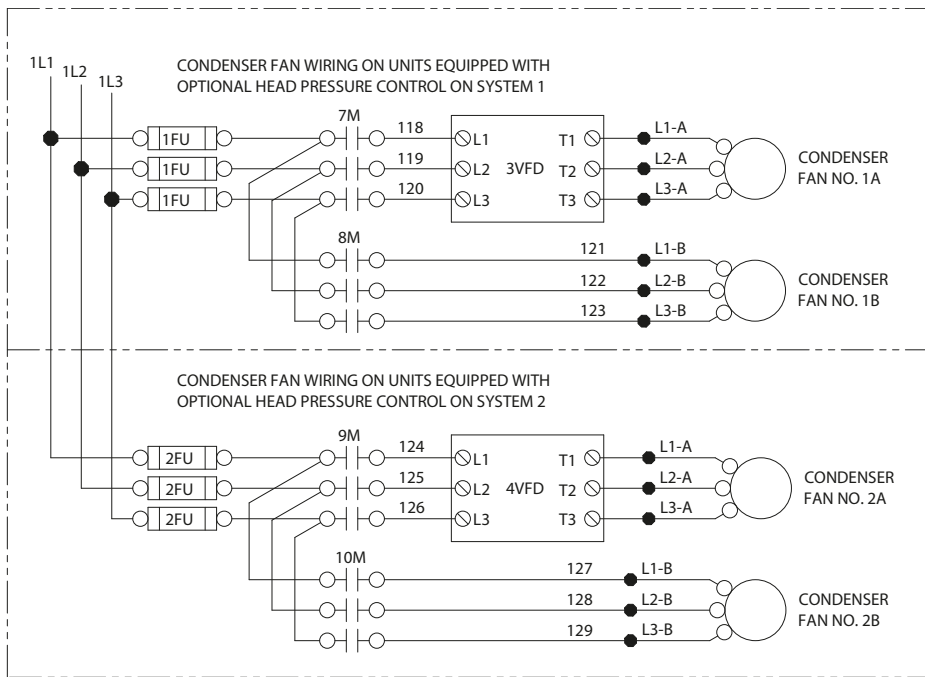
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FIG. 3 – YPAL MOD-D POWER SIDE, 50-65 TON, SINGLE POINT POWER (ENLARGED VIEW #2)



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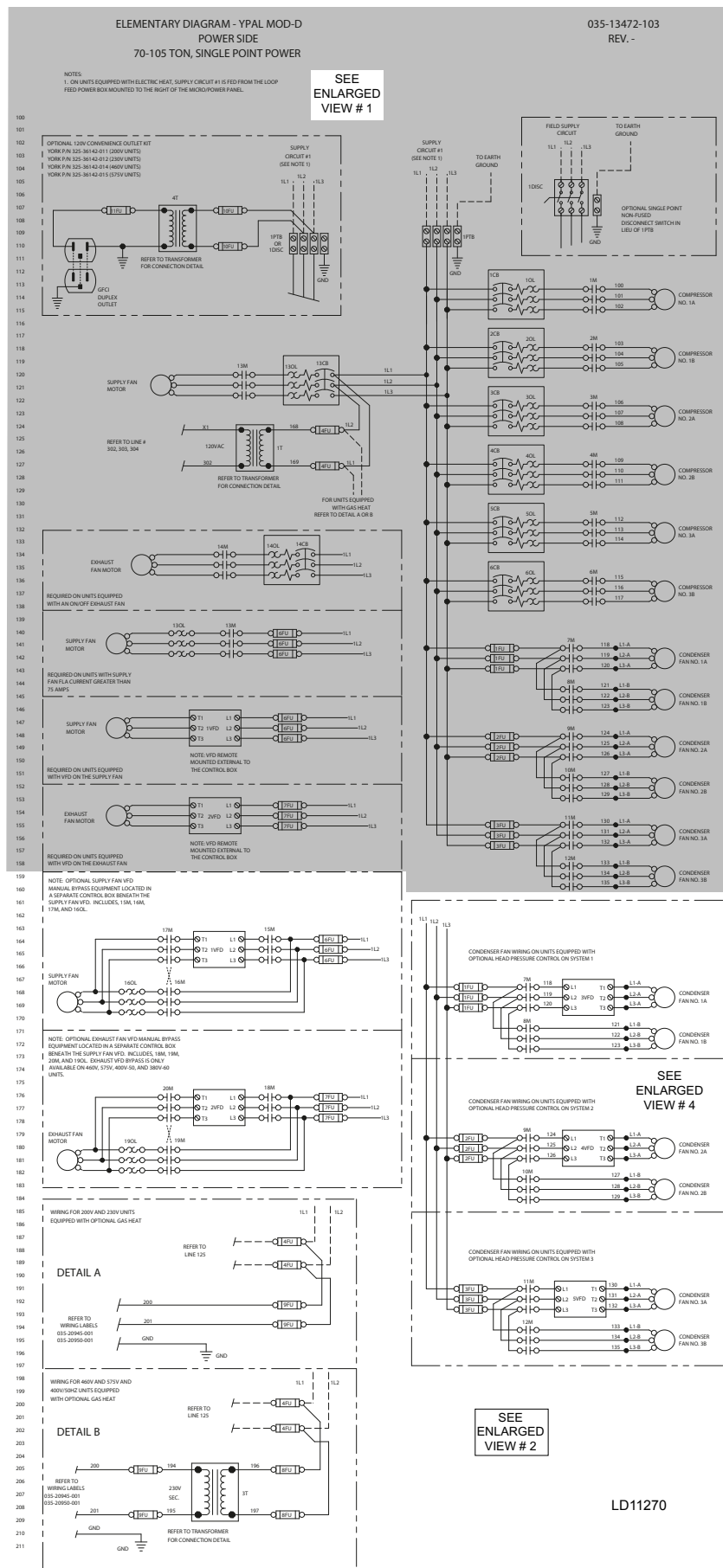
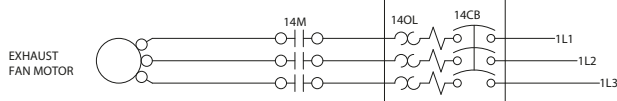
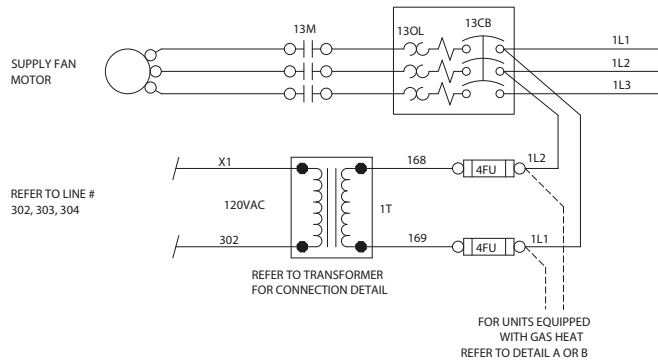
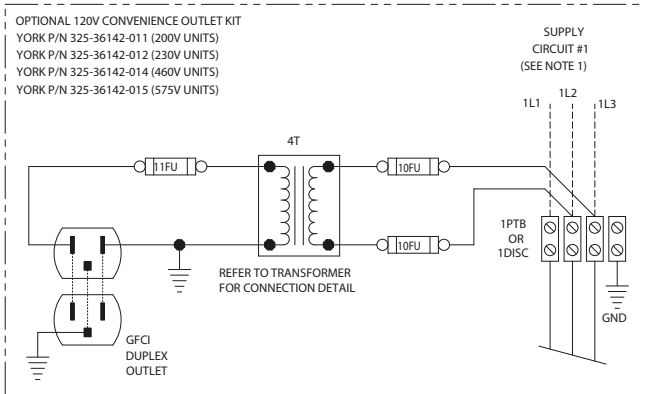


FIG. 4 – YPAL MOD-D POWER SIDE, 70-105 TON, SINGLE POINT POWER

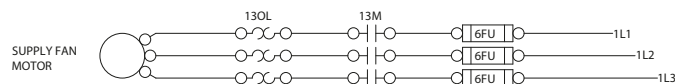
ELEMENTARY DIAGRAM - YPAL MOD-D
POWER SIDE
70-105 TON, SINGLE POINT POWER

NOTES:
1. ON UNITS EQUIPPED WITH ELECTRIC HEAT, SUPPLY CIRCUIT #1 IS FED FROM THE LOOP FEED POWER BOX MOUNTED TO THE RIGHT OF THE MICRO/POWER PANEL.

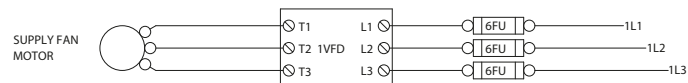
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REQUIRED ON UNITS EQUIPPED WITH AN ON/OFF EXHAUST FAN

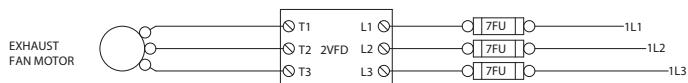


REQUIRED ON UNITS WITH SUPPLY FAN FLA CURRENT GREATER THAN 75 AMPS



REQUIRED ON UNITS EQUIPPED WITH VFD ON THE SUPPLY FAN

NOTE: VFD REMOTE MOUNTED EXTERNAL TO THE CONTROL BOX



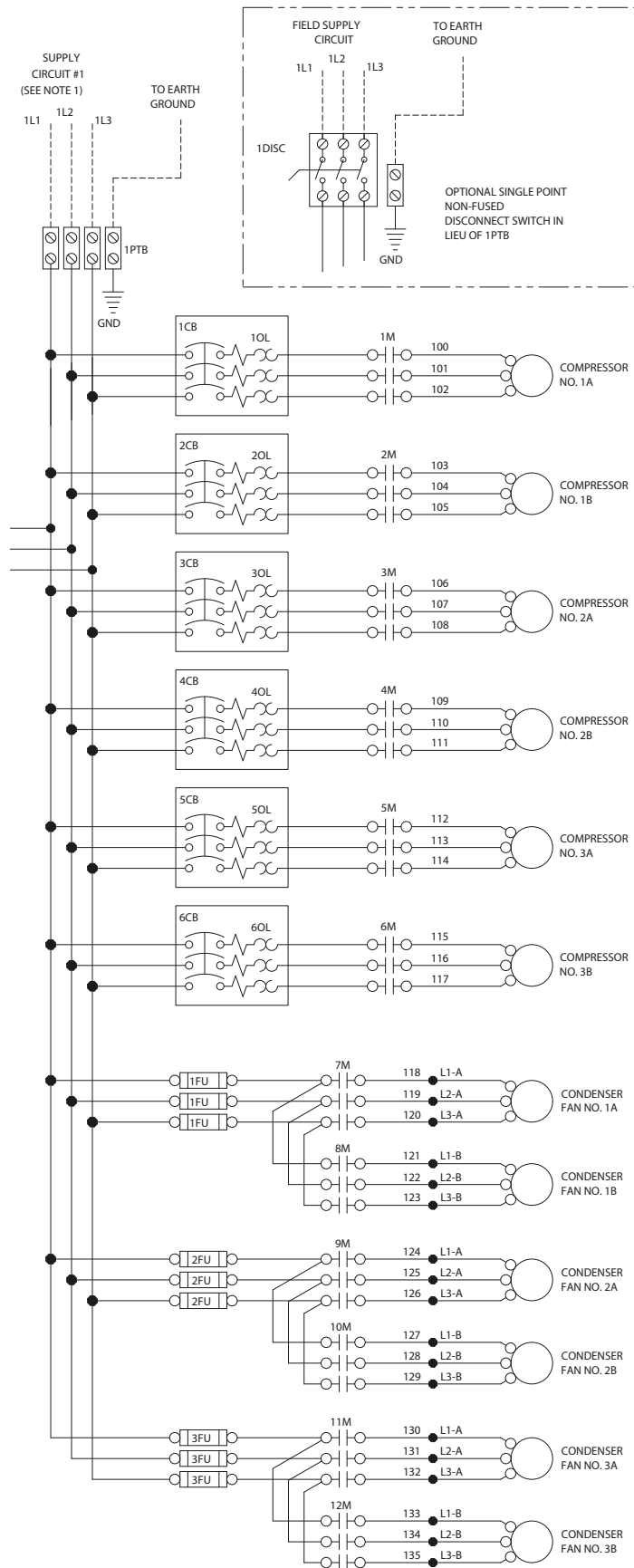
REQUIRED ON UNITS EQUIPPED WITH VFD ON THE EXHAUST FAN

NOTE: VFD REMOTE MOUNTED EXTERNAL TO THE CONTROL BOX

FIG. 4 – YPAL MOD-D POWER SIDE, 70-105 TON, SINGLE POINT POWER (ENLARGED VIEW #1)

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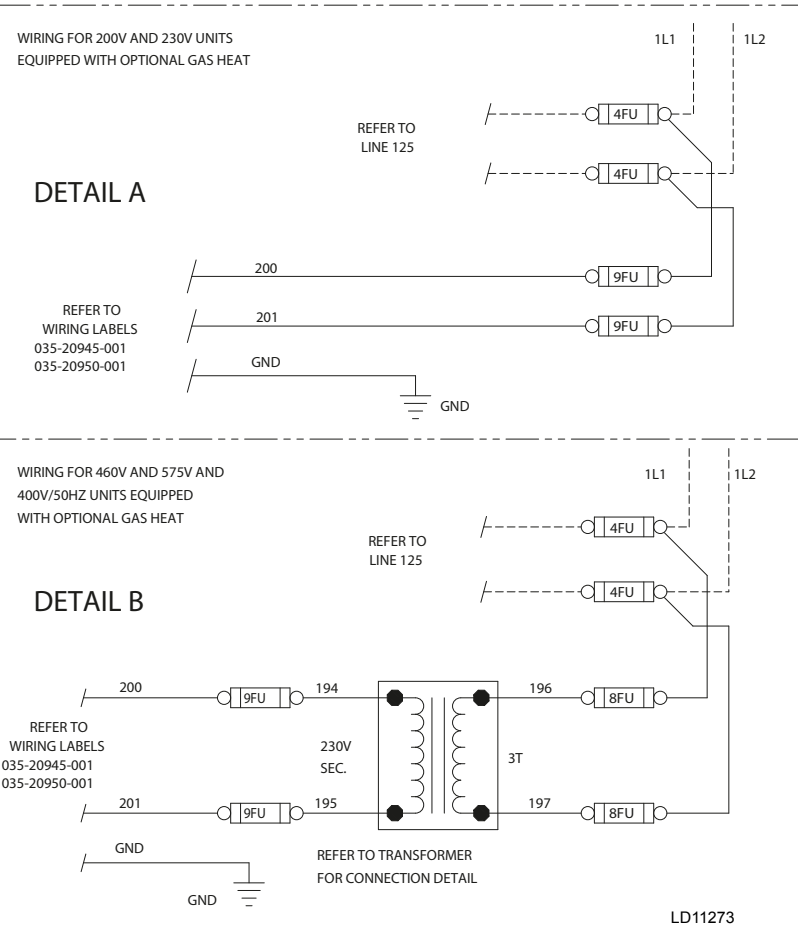
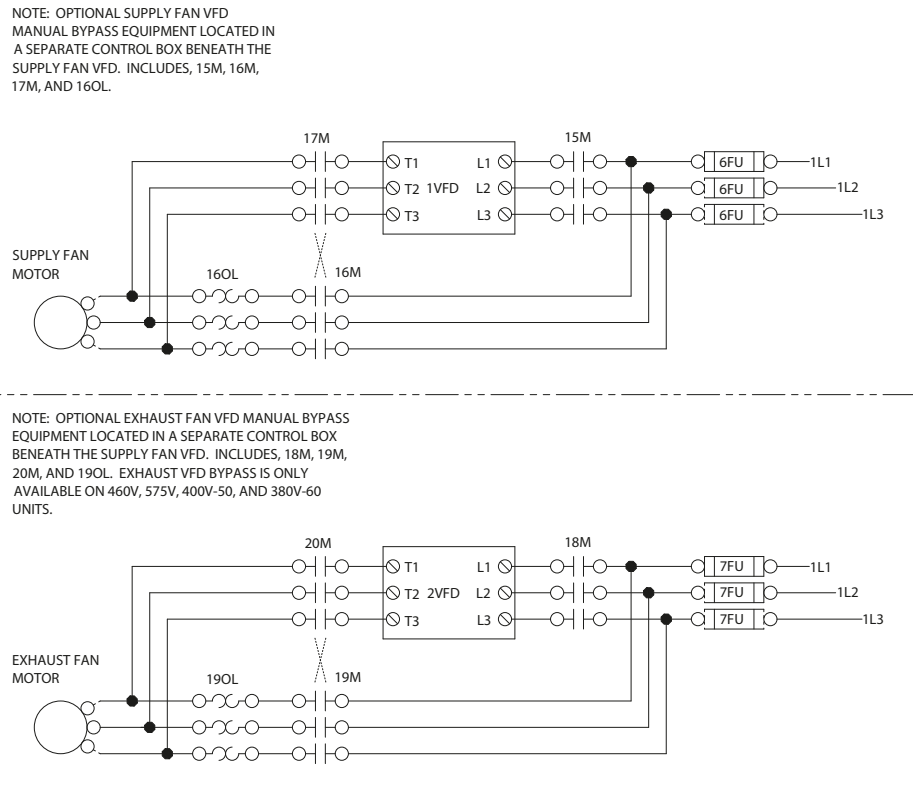
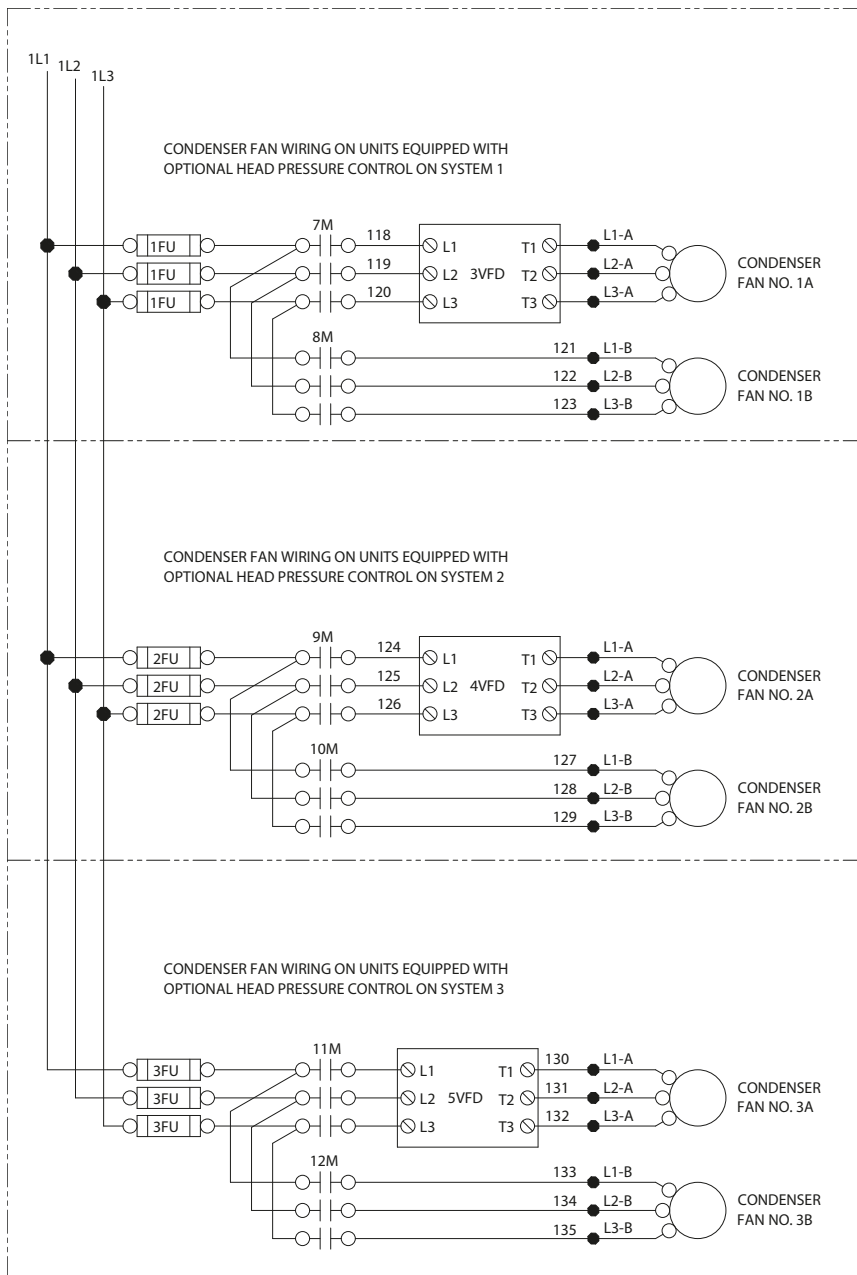


FIG. 4 – YPAL MOD-D POWER SIDE, 70-105 TON, SINGLE POINT POWER (ENLARGED VIEW #2)



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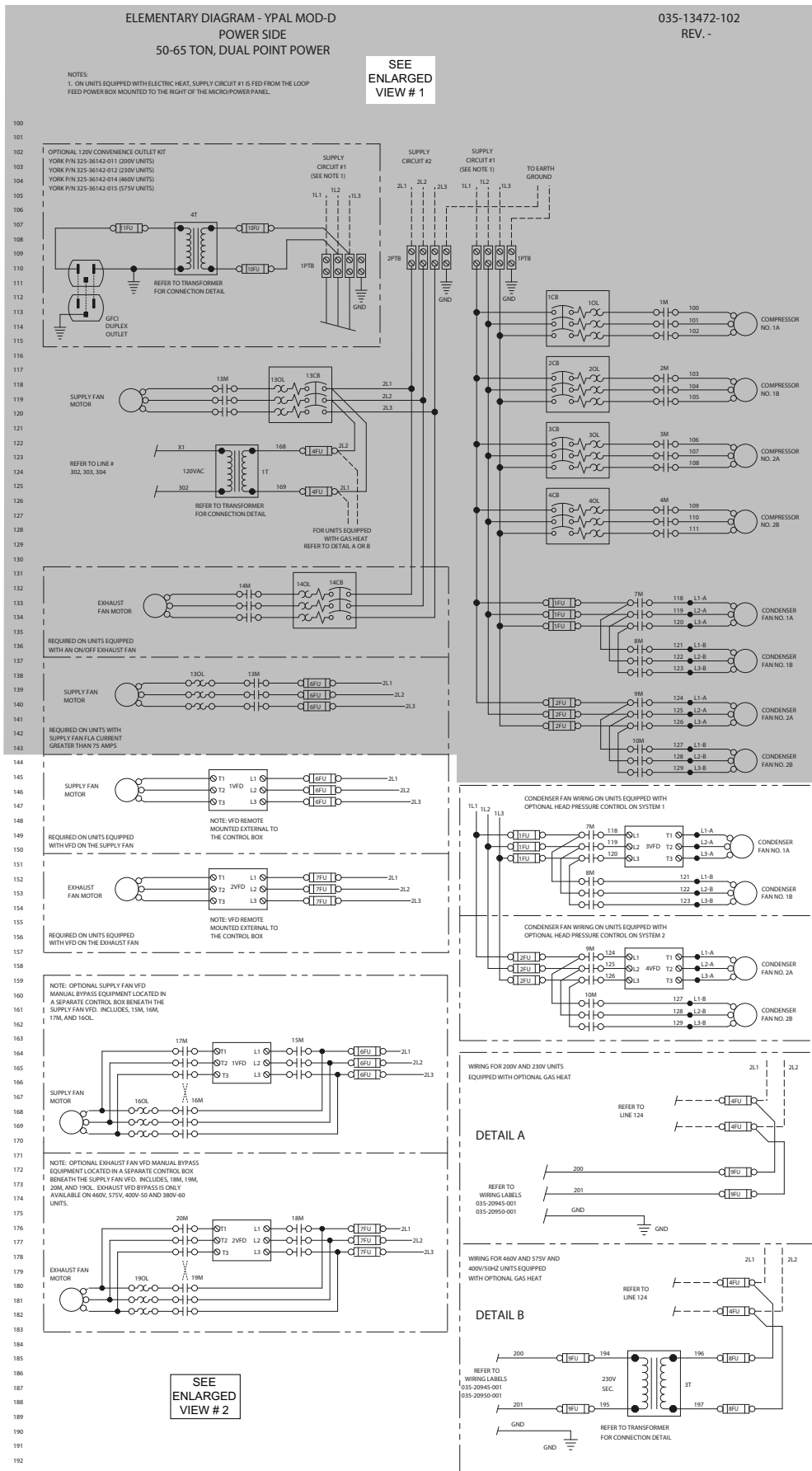


FIG. 5 – YPAL MOD-D POWER SIDE, 50-65 TON, DUAL POINT POWER

ELEMENTARY DIAGRAM - YPAL MOD-D POWER SIDE 50-65 TON, DUAL POINT POWER

NOTES:

1. ON UNITS EQUIPPED WITH ELECTRIC HEAT, SUPPLY CIRCUIT #1 IS FED FROM THE LOOP FEED POWER BOX MOUNTED TO THE RIGHT OF THE MICRO/POWER PANEL.

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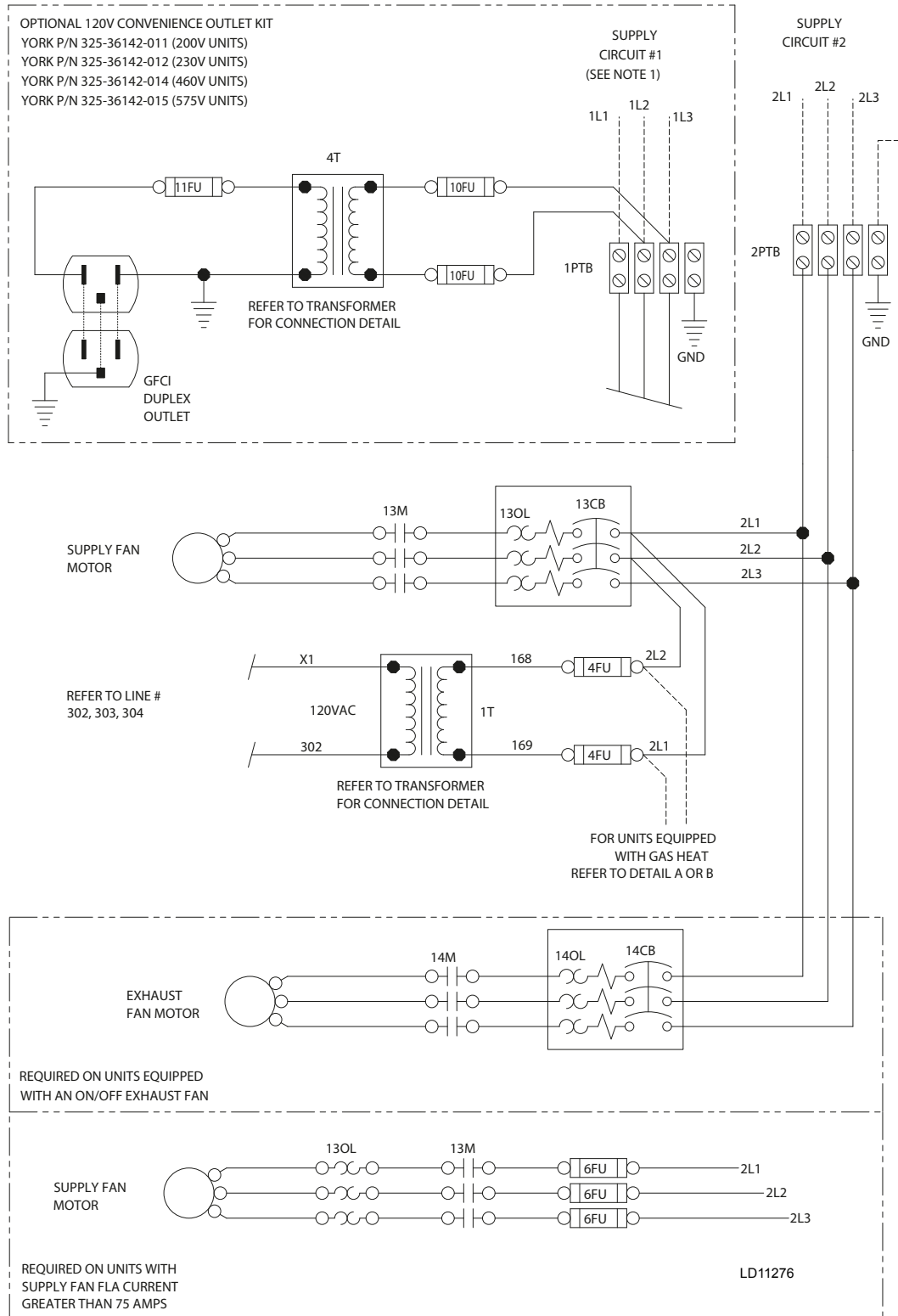
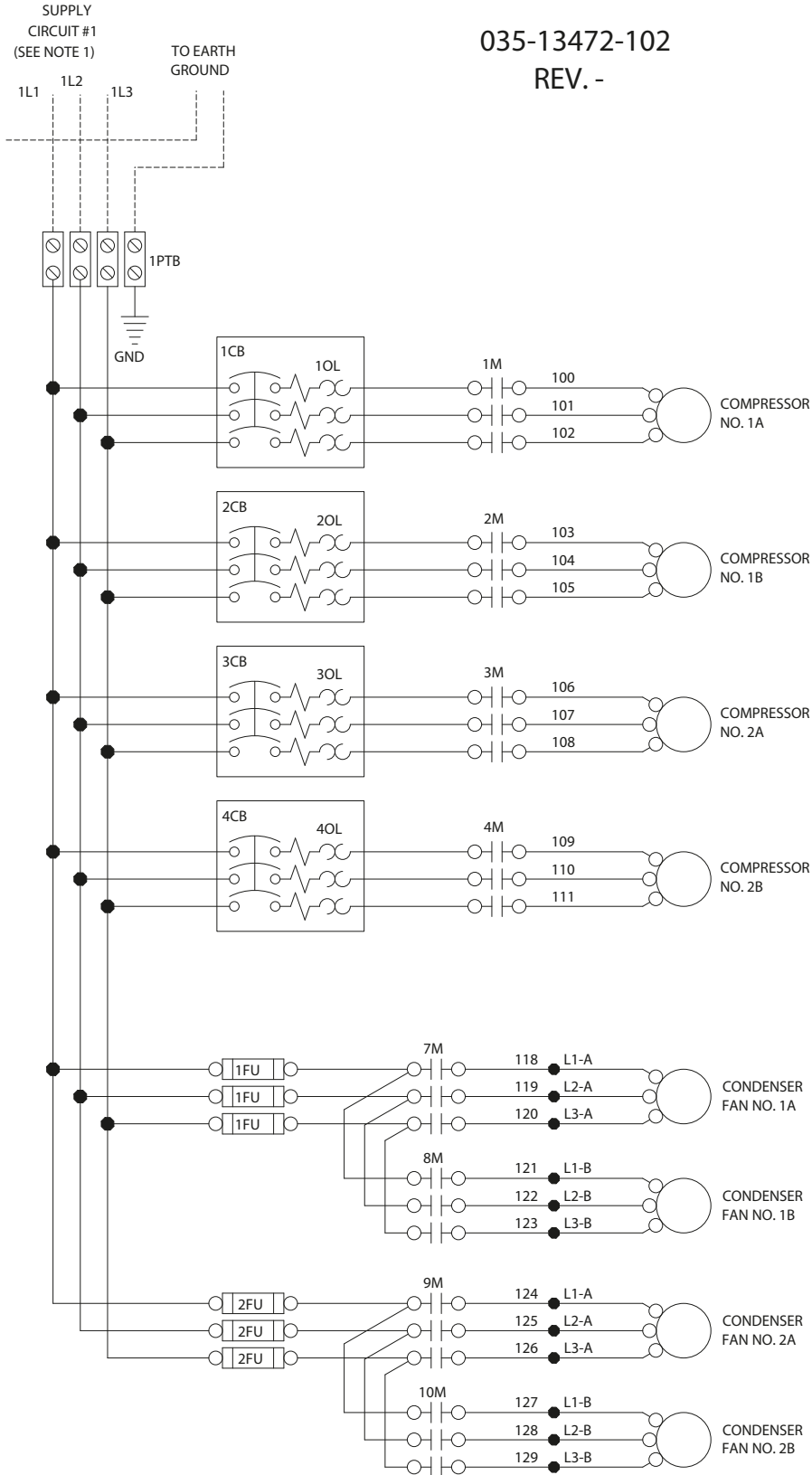
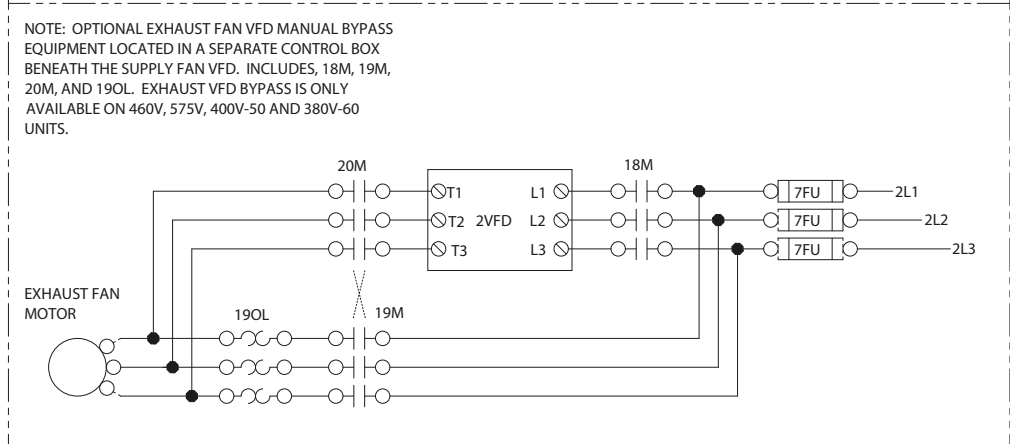
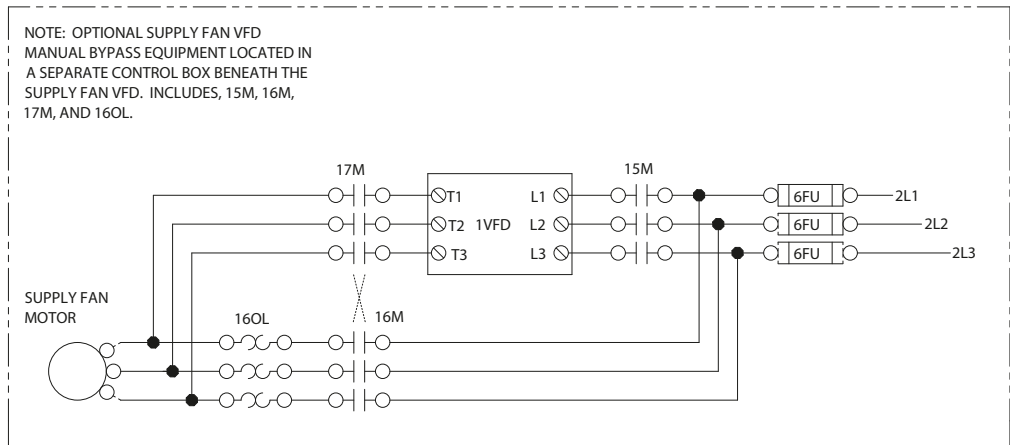
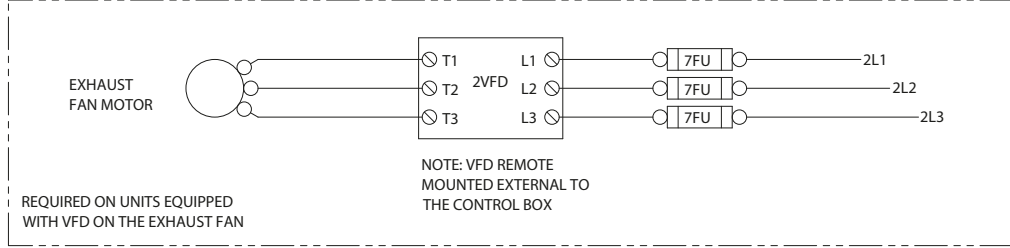
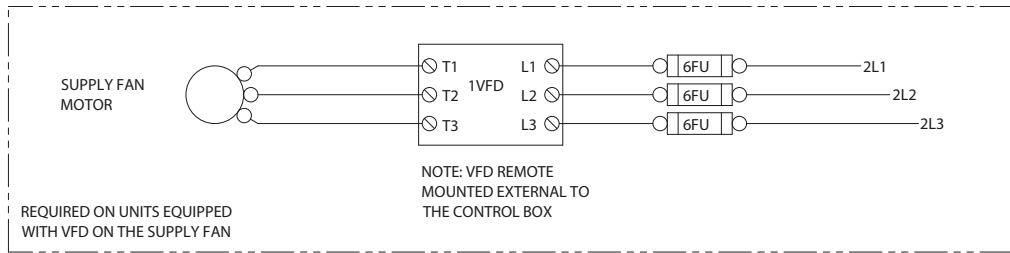


FIG. 5 – YPAL MOD-D POWER SIDE, 50-65 TON, DUAL POINT POWER (ENLARGED VIEW #1)



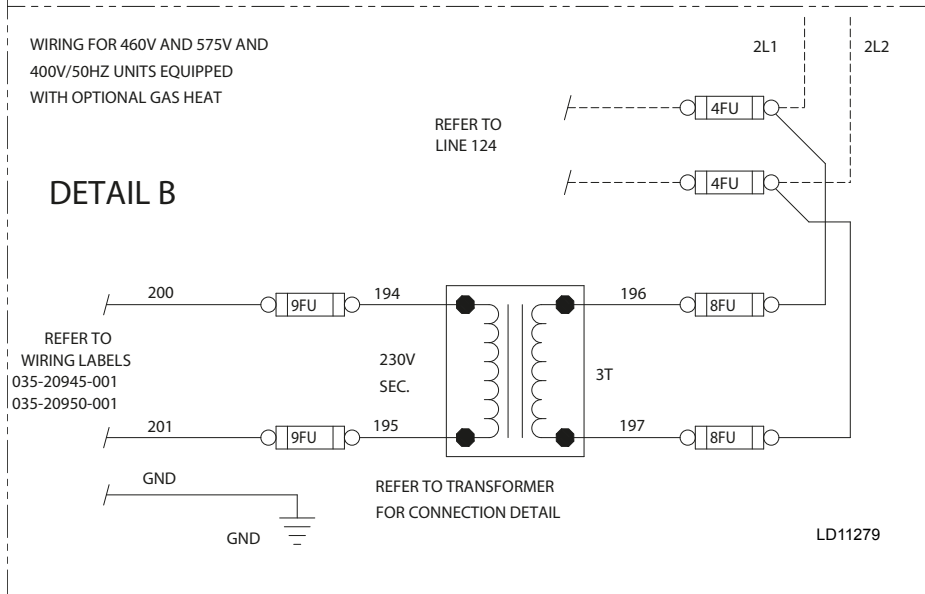
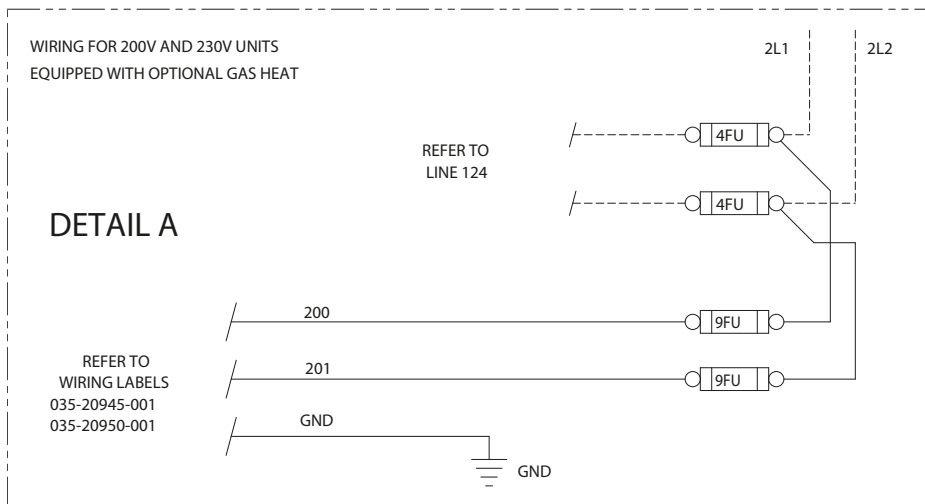
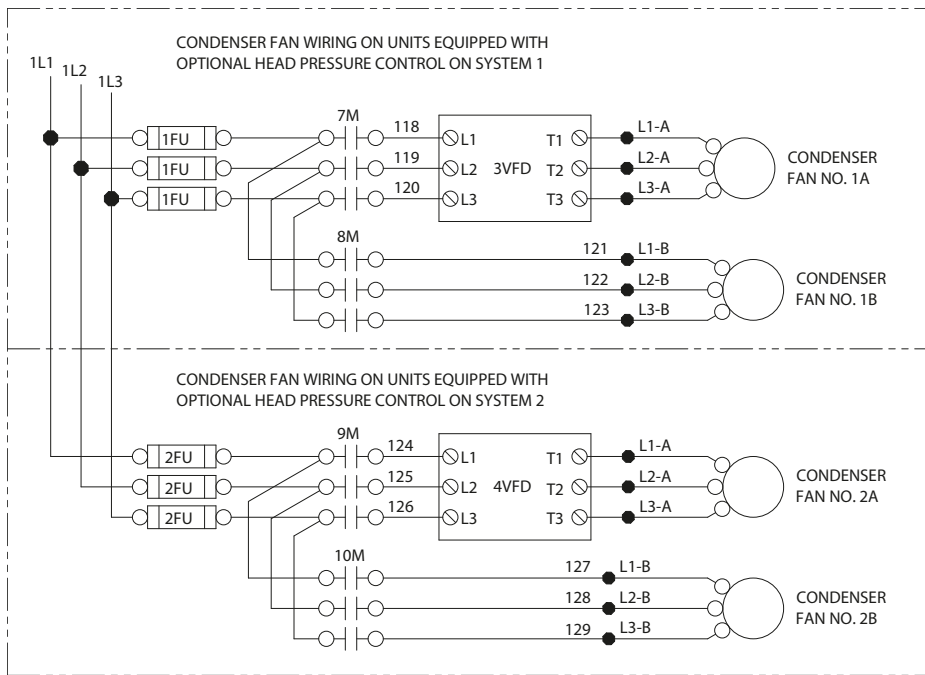
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FIG. 5 – YPAL MOD-D POWER SIDE, 50-65 TON, DUAL POINT POWER (ENLARGED VIEW #2)



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ELEMENTARY DIAGRAM - YPAL MOD-D POWER SIDE 70-105 TON, DUAL POINT POWER

- NOTES:
 1. ON UNITS EQUIPPED WITH ELECTRIC HEAT, SUPPLY CIRCUIT #1 IS FED FROM THE LOOP FEED POWER BOX MOUNTED TO THE RIGHT OF THE MICRO/POWER PANEL.

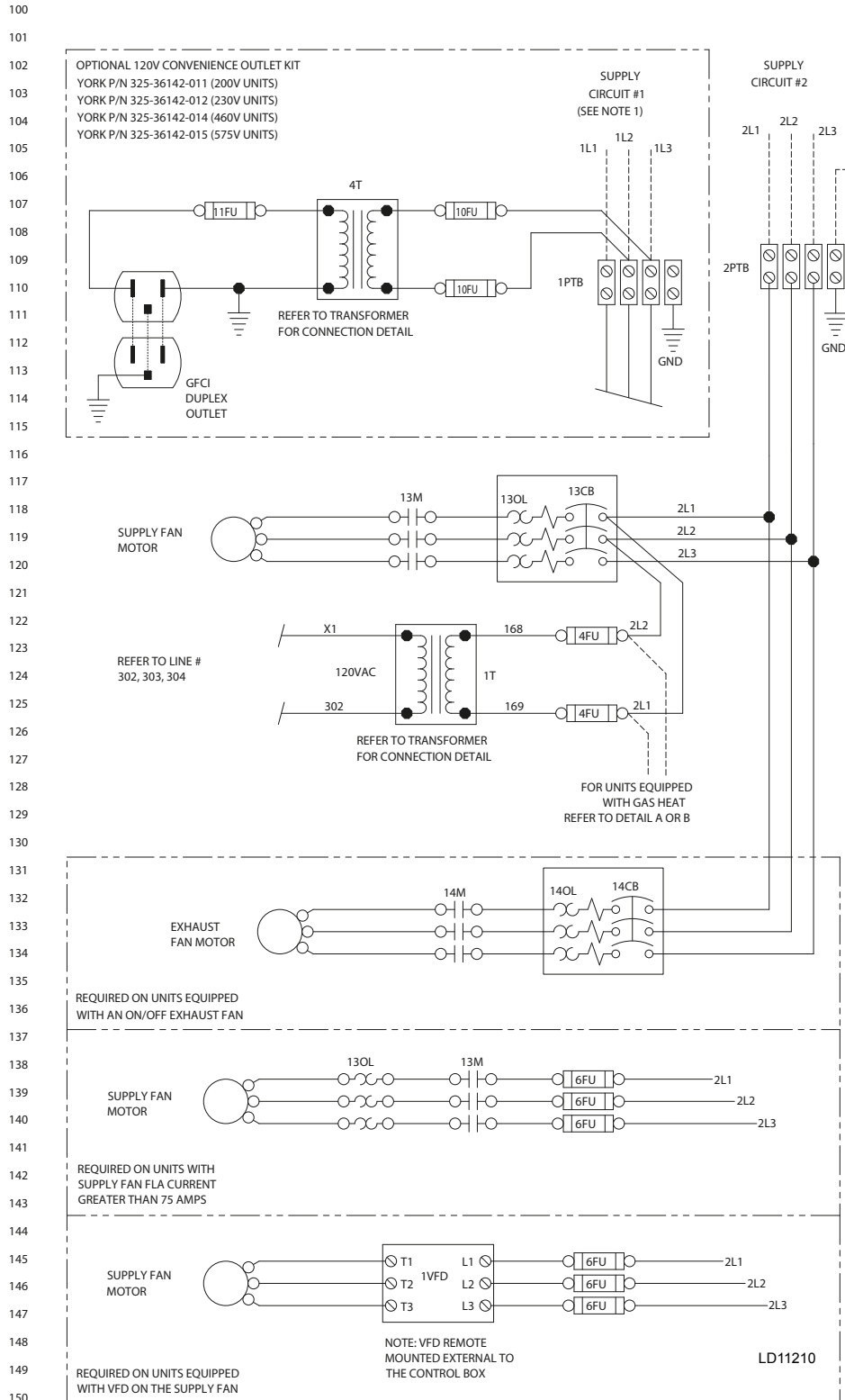
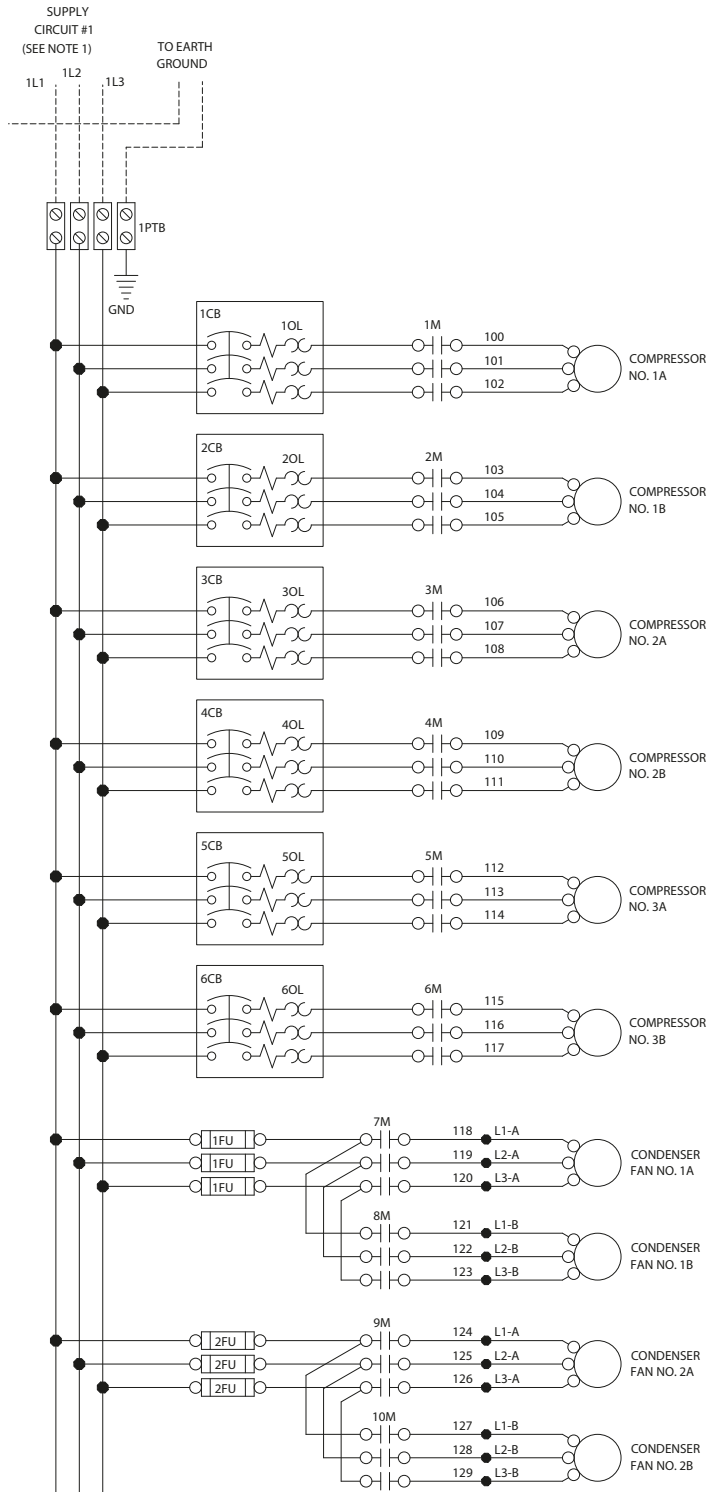


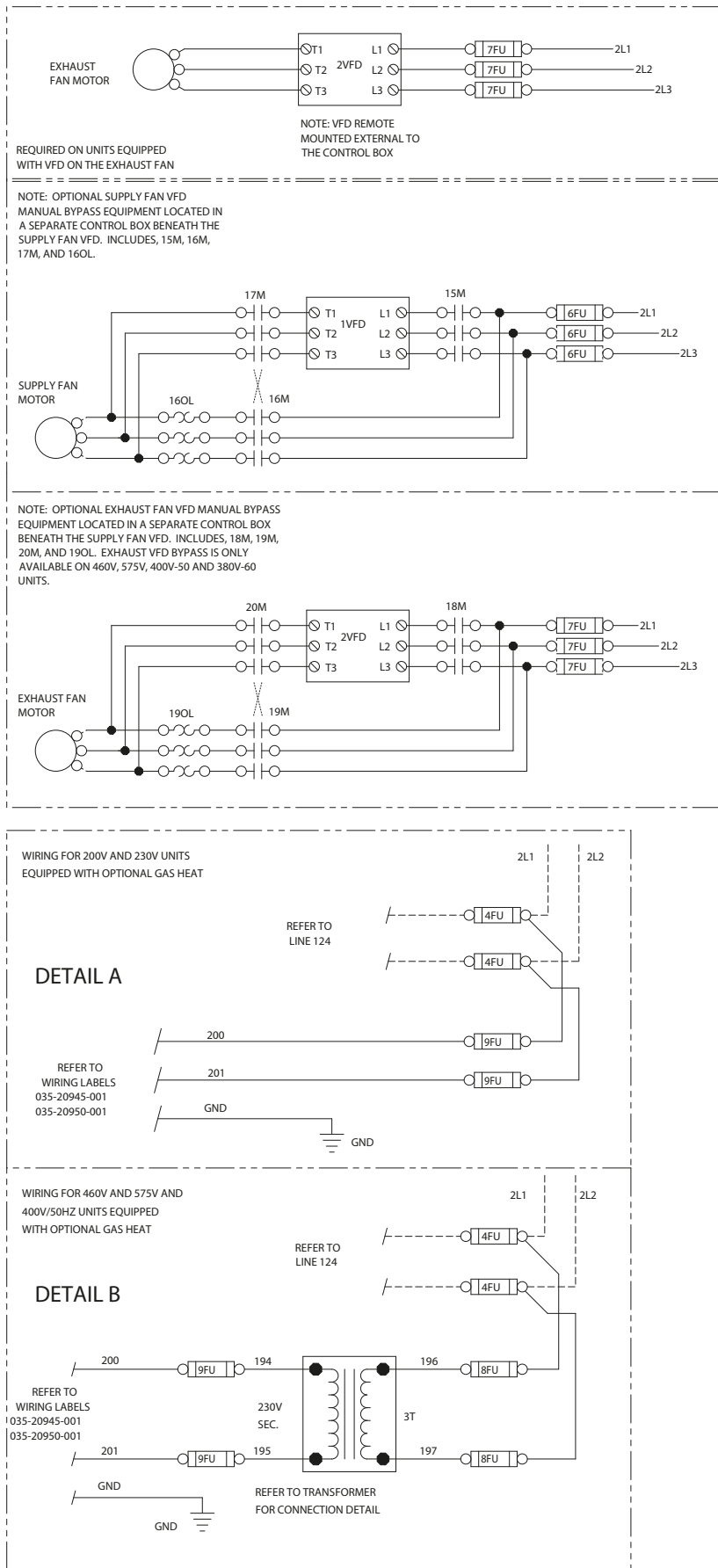
FIG. 6 – YPAL MOD-D POWER SIDE, 70-105 TON, DUAL POINT POWER (ENLARGED VIEW #1)

035-13472-104
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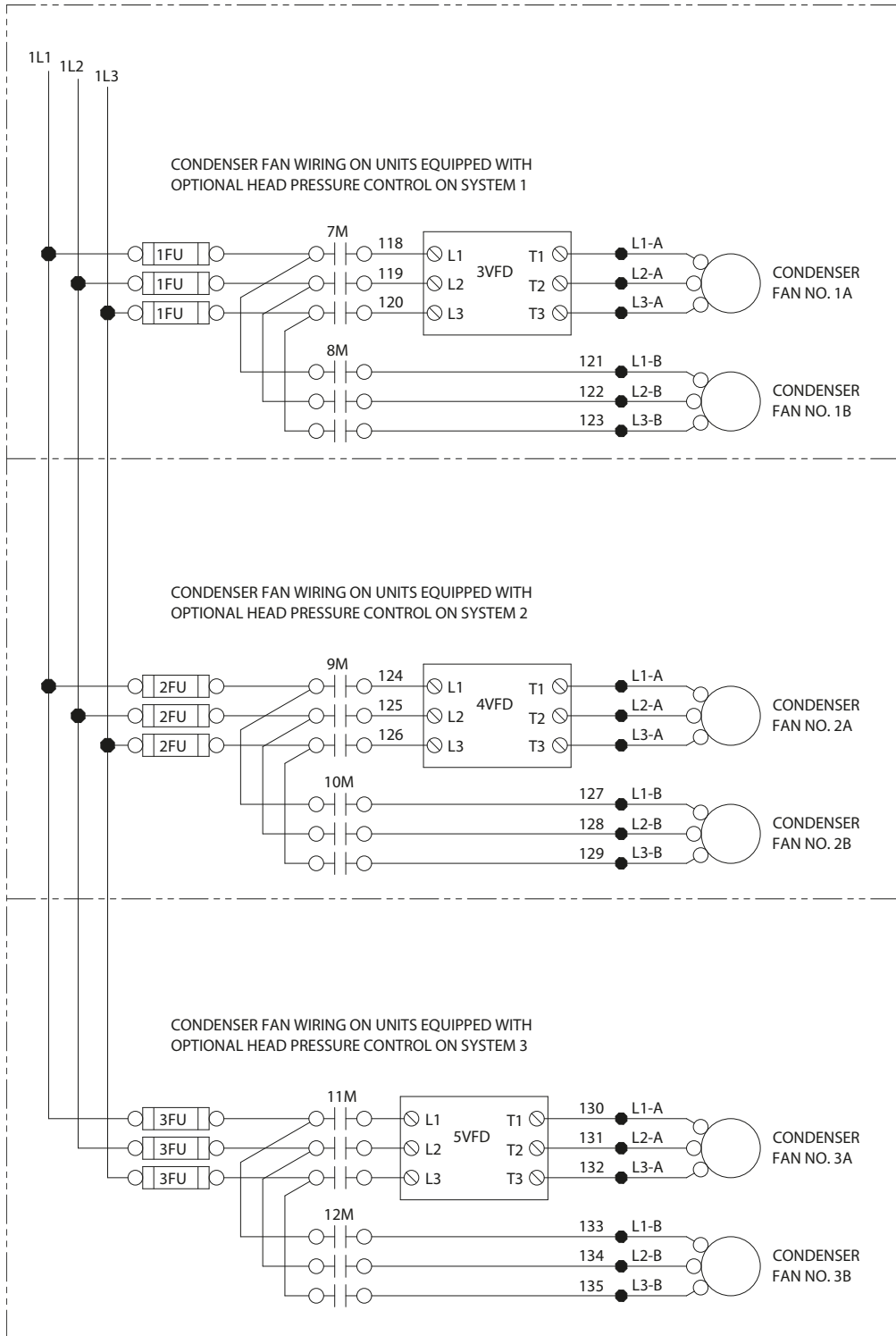
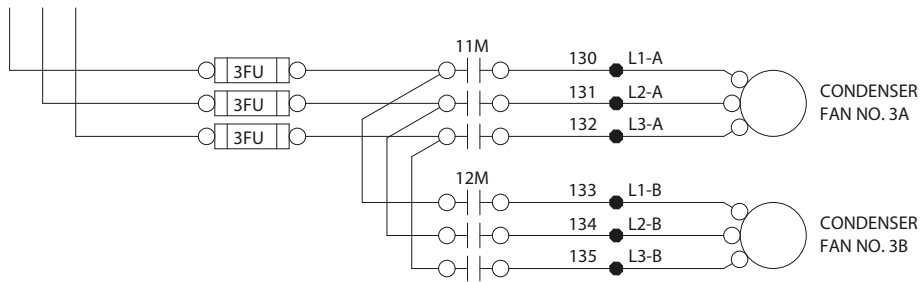
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LD11211

FIG. 6 – YPAL MOD-D POWER SIDE, 70-105 TON, DUAL POINT POWER (ENLARGED VIEW #2)



LD11212

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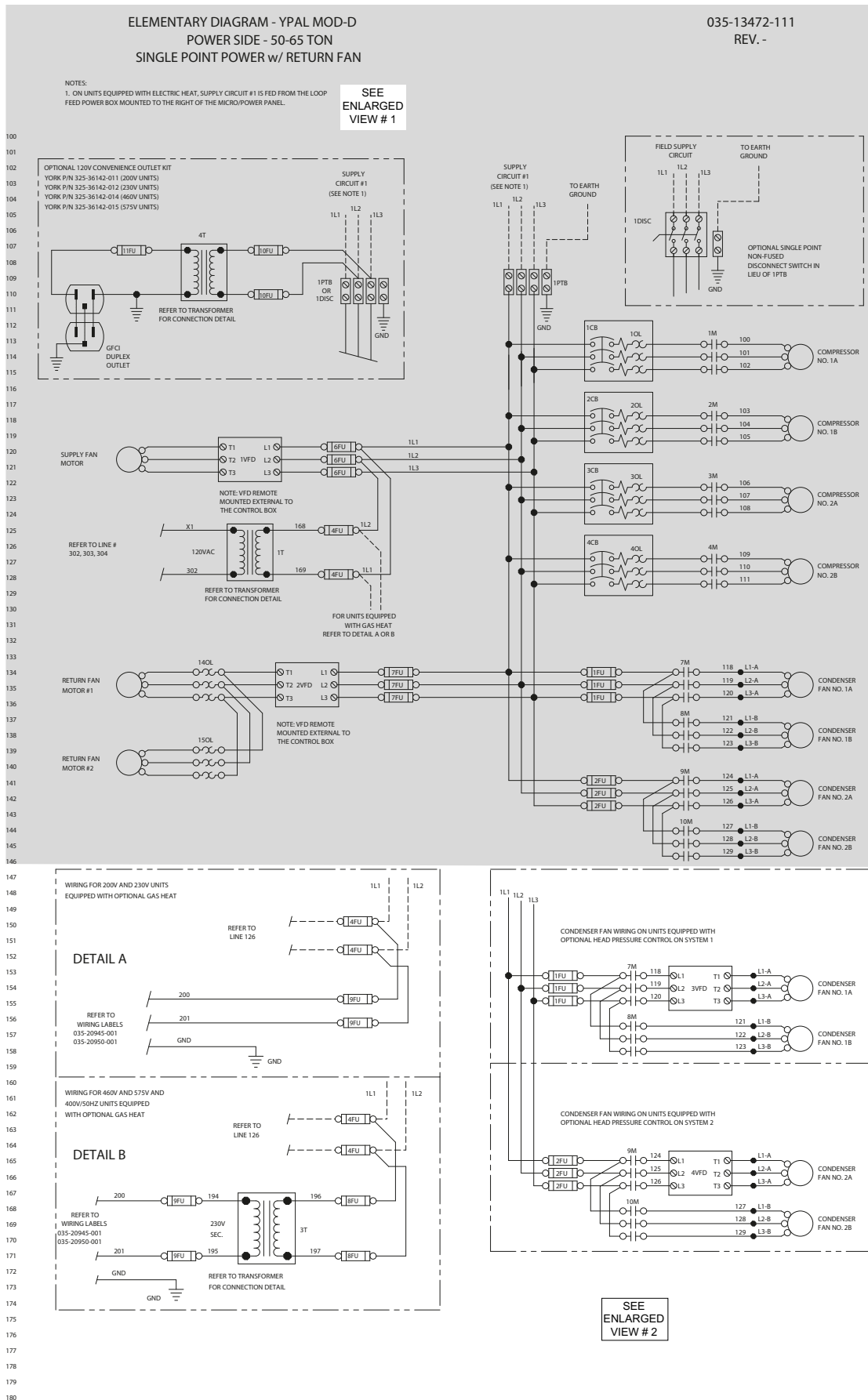
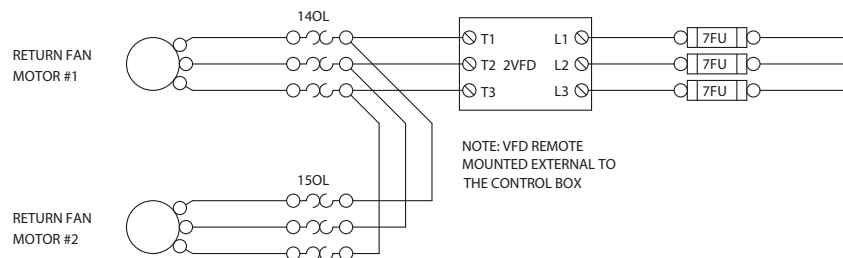
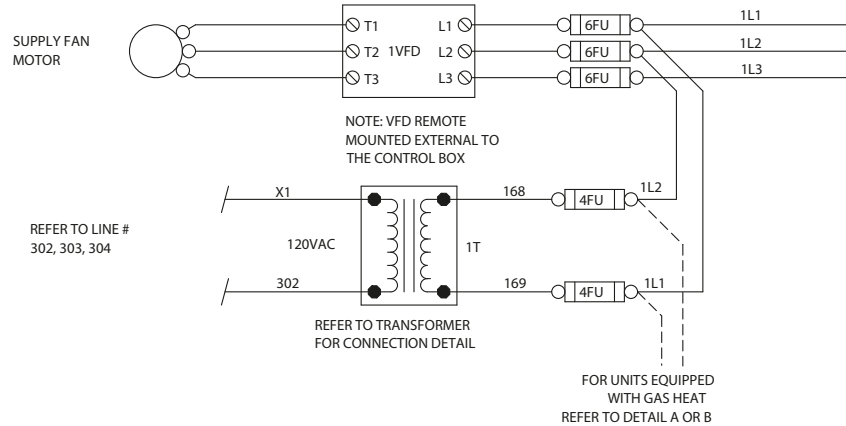
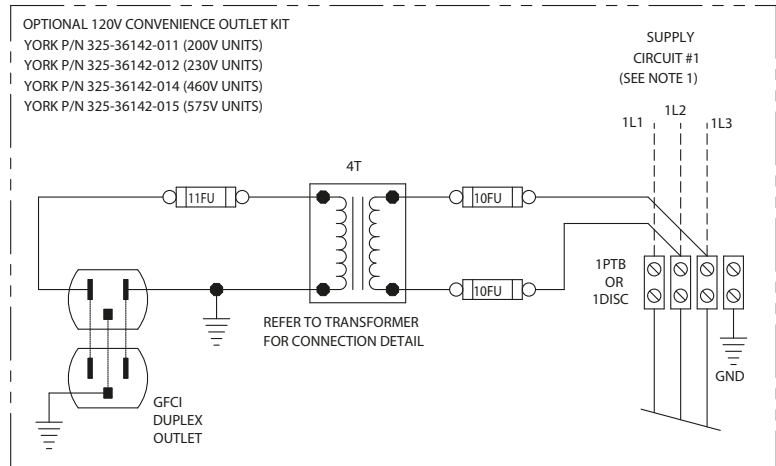


FIG. 7 – YPAL MOD-D POWER SIDE, 50-65 TON, SINGLE POINT POWER W/ RETURN FAN

ELEMENTARY DIAGRAM - YPAL MOD-D POWER SIDE - 50-65 TON SINGLE POINT POWER w/ RETURN FAN

- NOTES:
1. ON UNITS EQUIPPED WITH ELECTRIC HEAT, SUPPLY CIRCUIT #1 IS FED FROM THE LOOP FEED POWER BOX MOUNTED TO THE RIGHT OF THE MICRO/POWER PANEL.

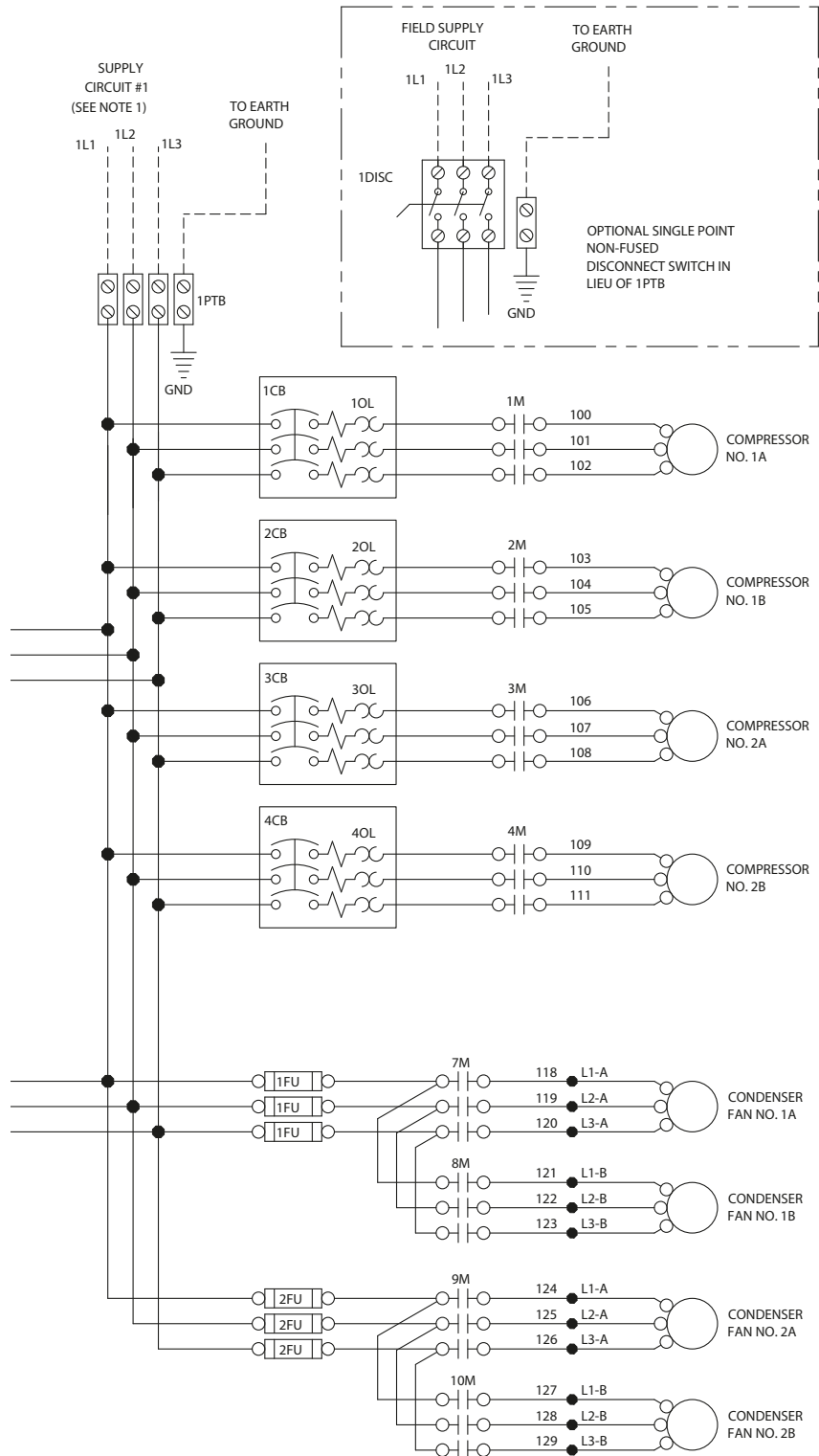
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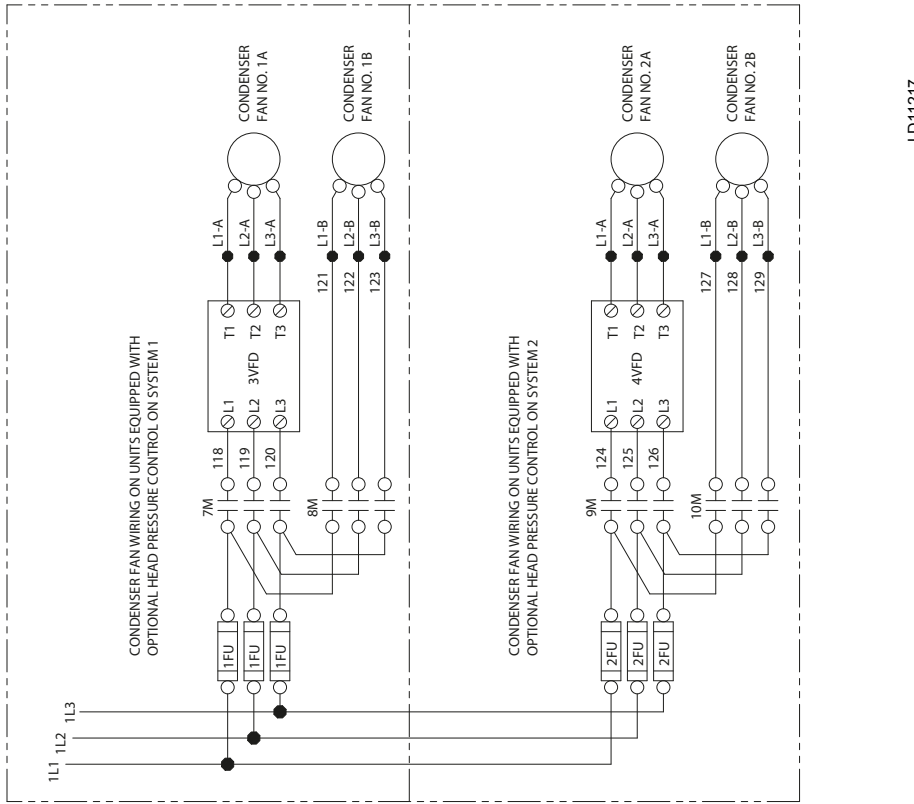
LD11215

FIG. 7 – YPAL MOD-D POWER SIDE, 50-65 TON, SINGLE POINT POWER W/ RETURN FAN (ENLARGED VIEW #1)

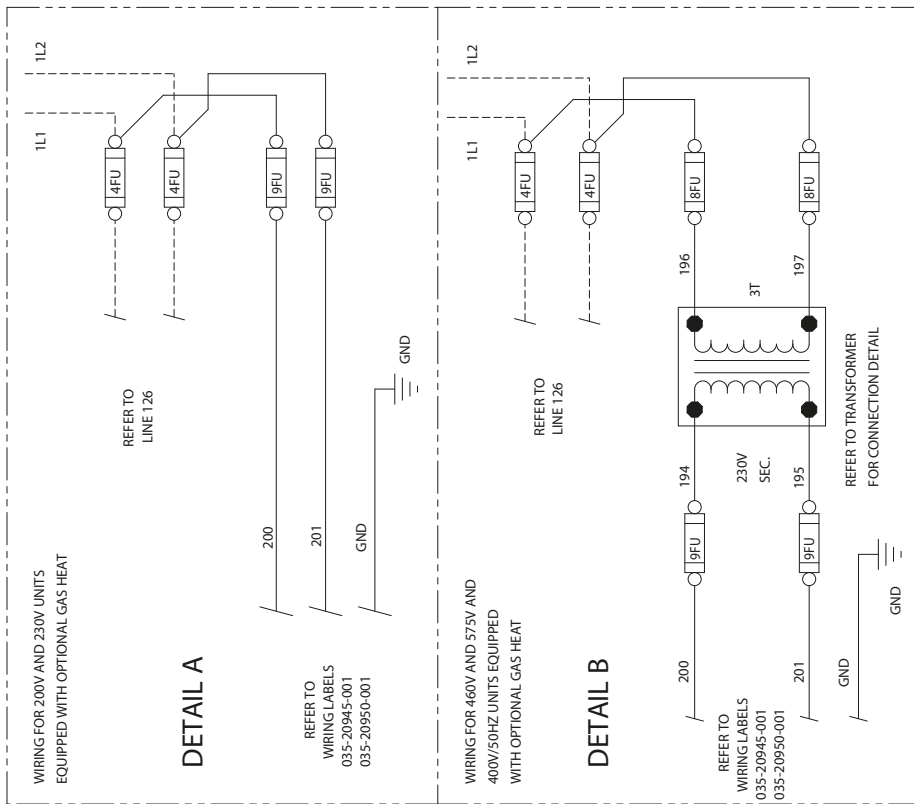
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LD11215



LD11217



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FIG. 7 – YPAL MOD-D POWER SIDE, 50-65 TON, SINGLE POINT POWER W/ RETURN FAN (ENLARGED VIEW #2)

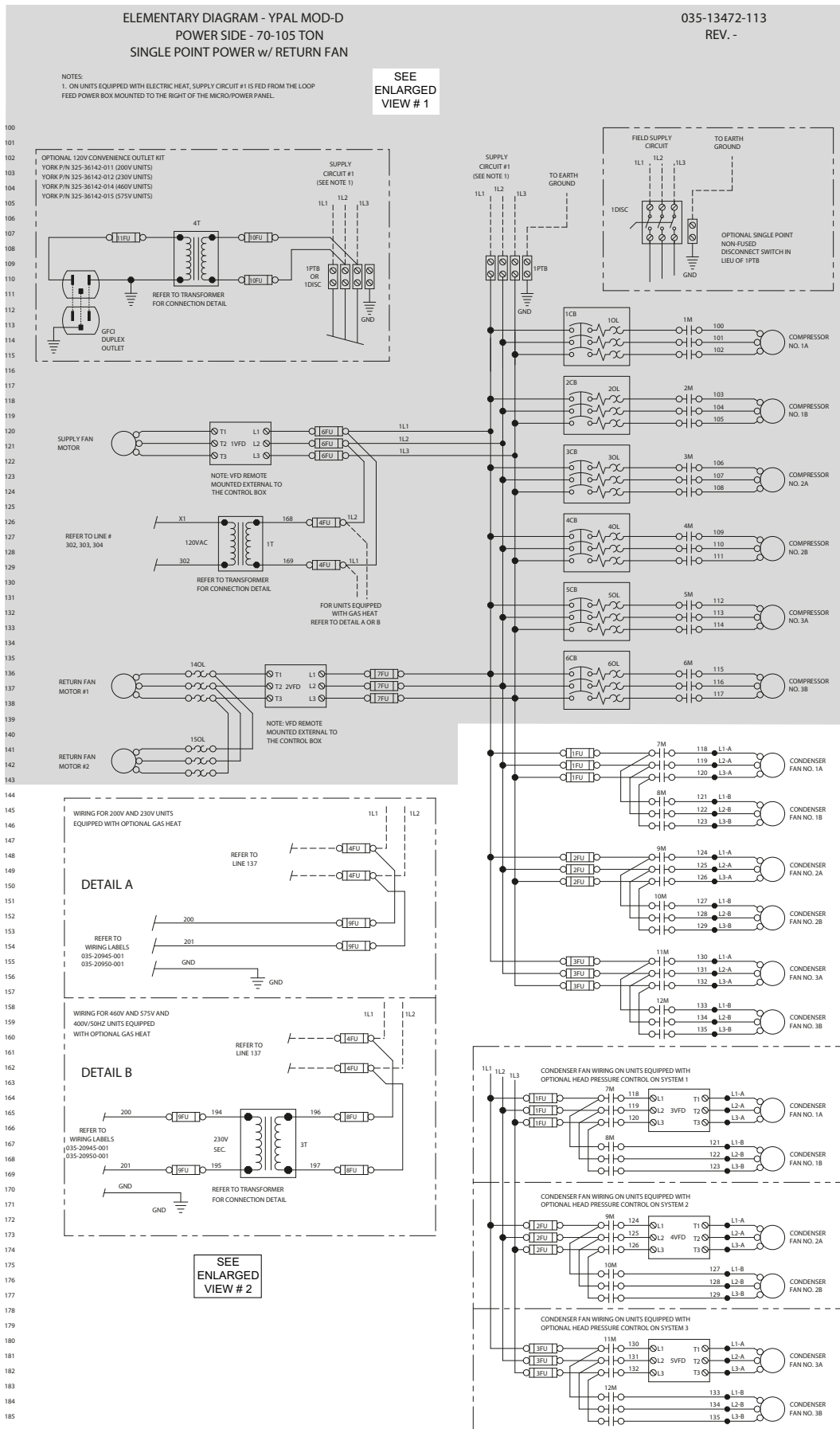


FIG. 8 – YPAL MOD-D POWER SIDE, 70-105 TON, SINGLE POINT POWER W/ RETURN FAN

ELEMENTARY DIAGRAM - YPAL MOD-D POWER SIDE - 70-105 TON SINGLE POINT POWER w/ RETURN FAN

NOTES:

- ON UNITS EQUIPPED WITH ELECTRIC HEAT, SUPPLY CIRCUIT #1 IS FED FROM THE LOOP FEED POWER BOX MOUNTED TO THE RIGHT OF THE MICRO/POWER PANEL.

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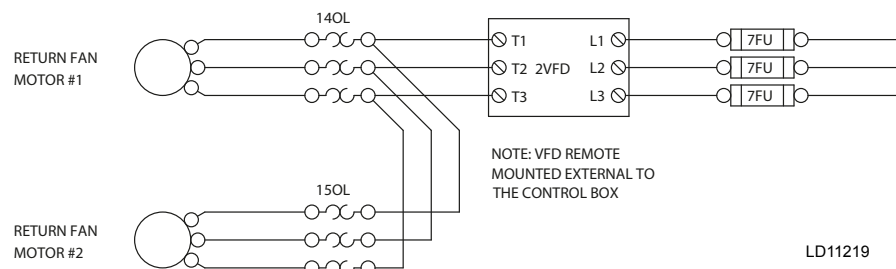
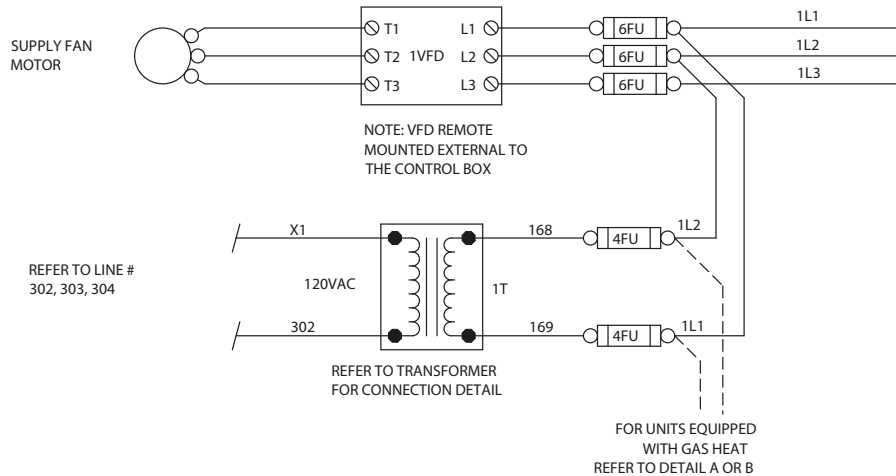
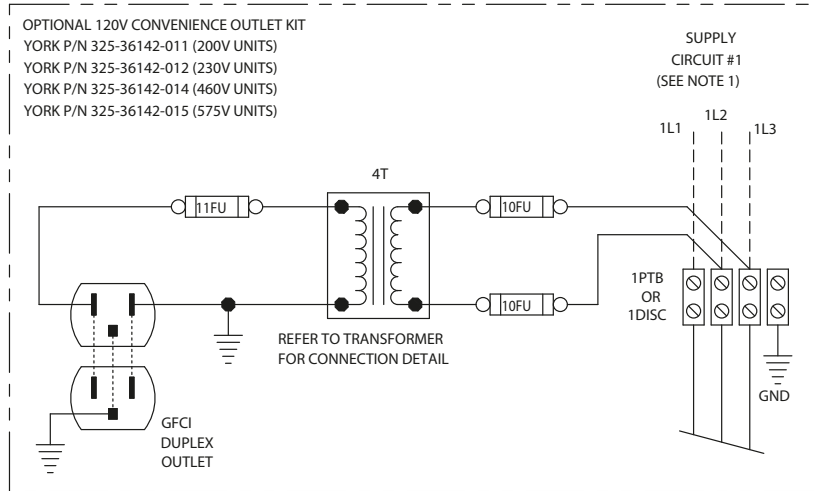
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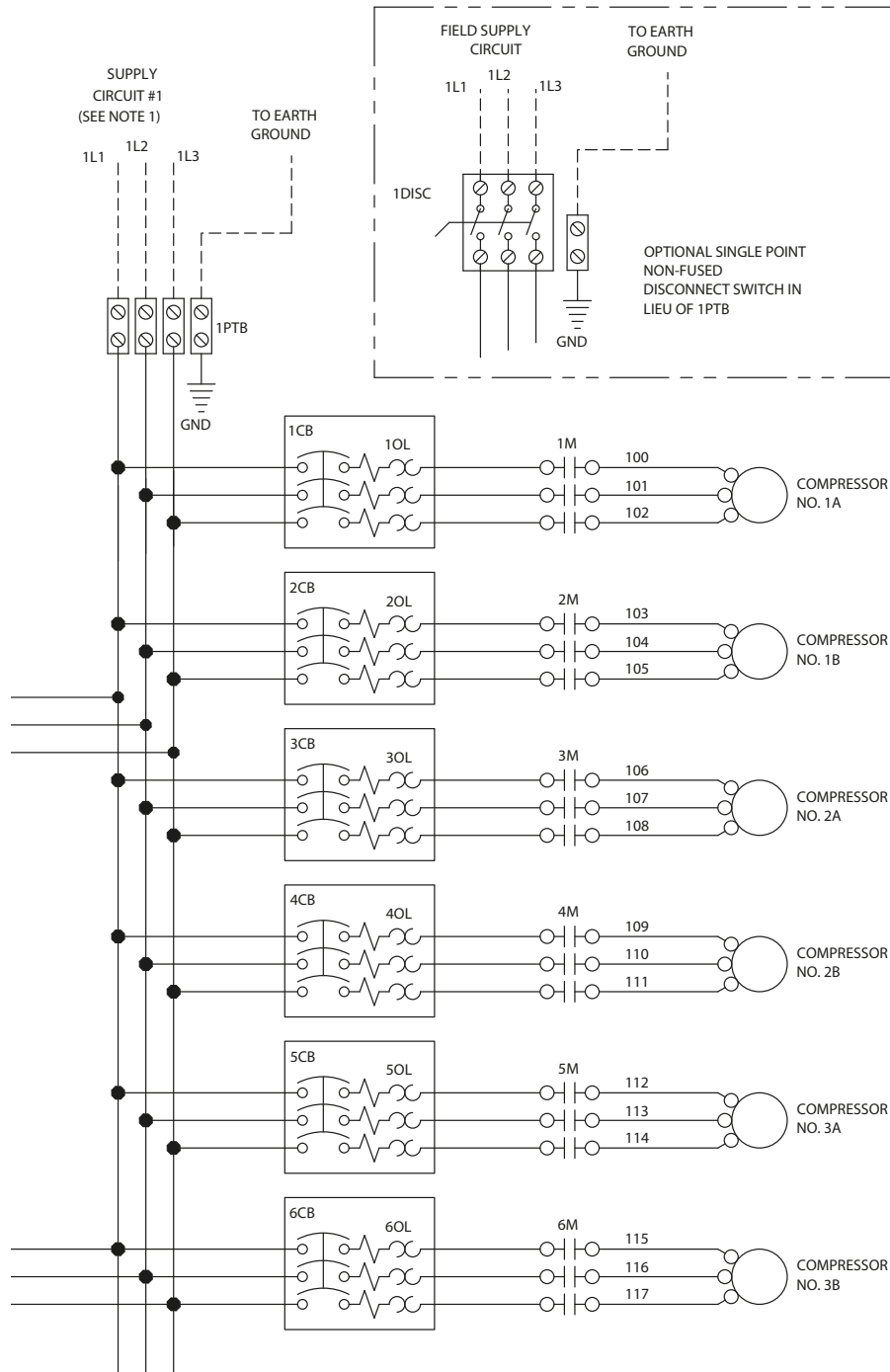
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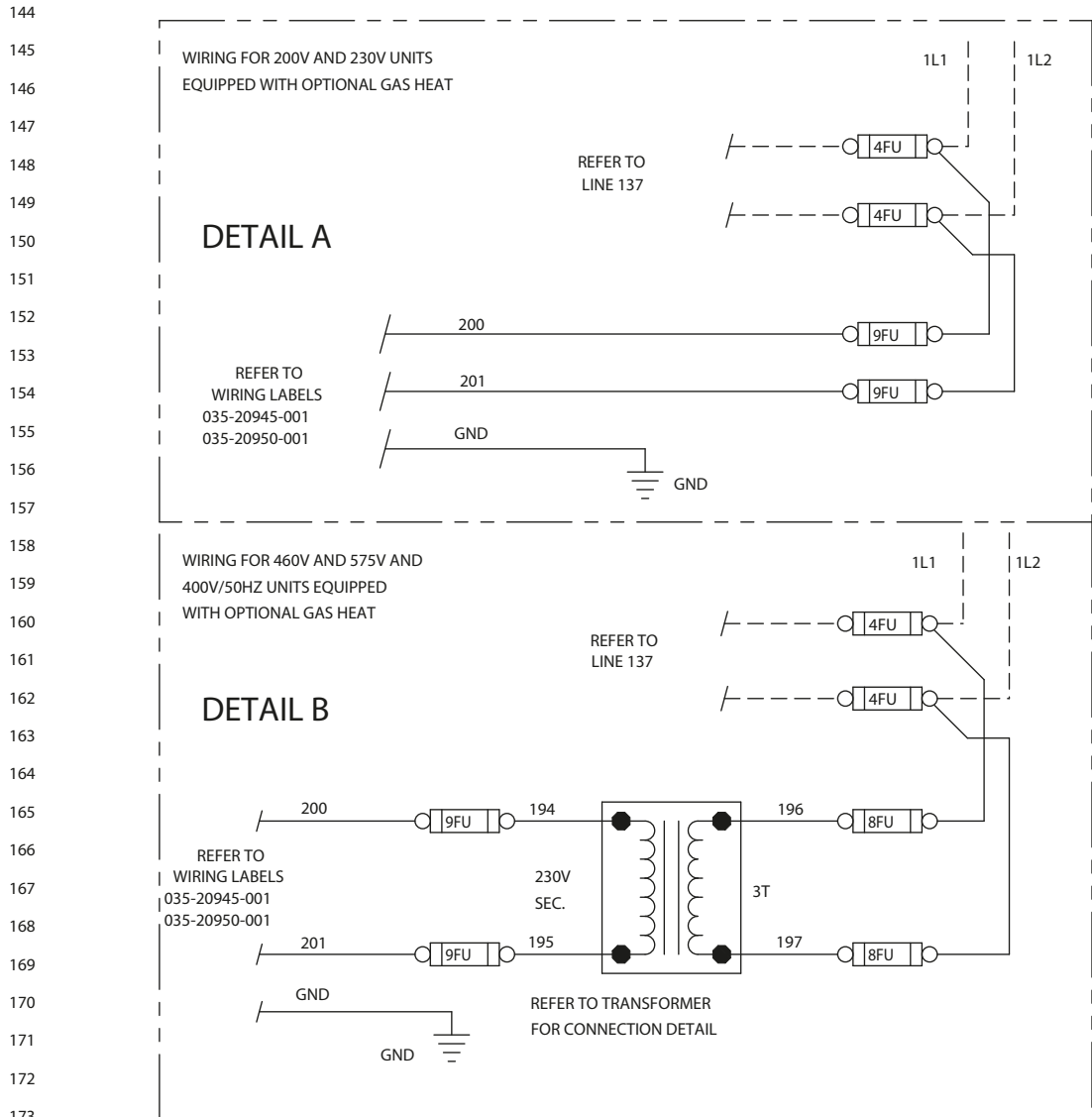
LD11219

FIG. 8 – YPAL MOD-D POWER SIDE, 50-65 TON, SINGLE POINT POWER W/ RETURN FAN (ENLARGED VIEW #1)

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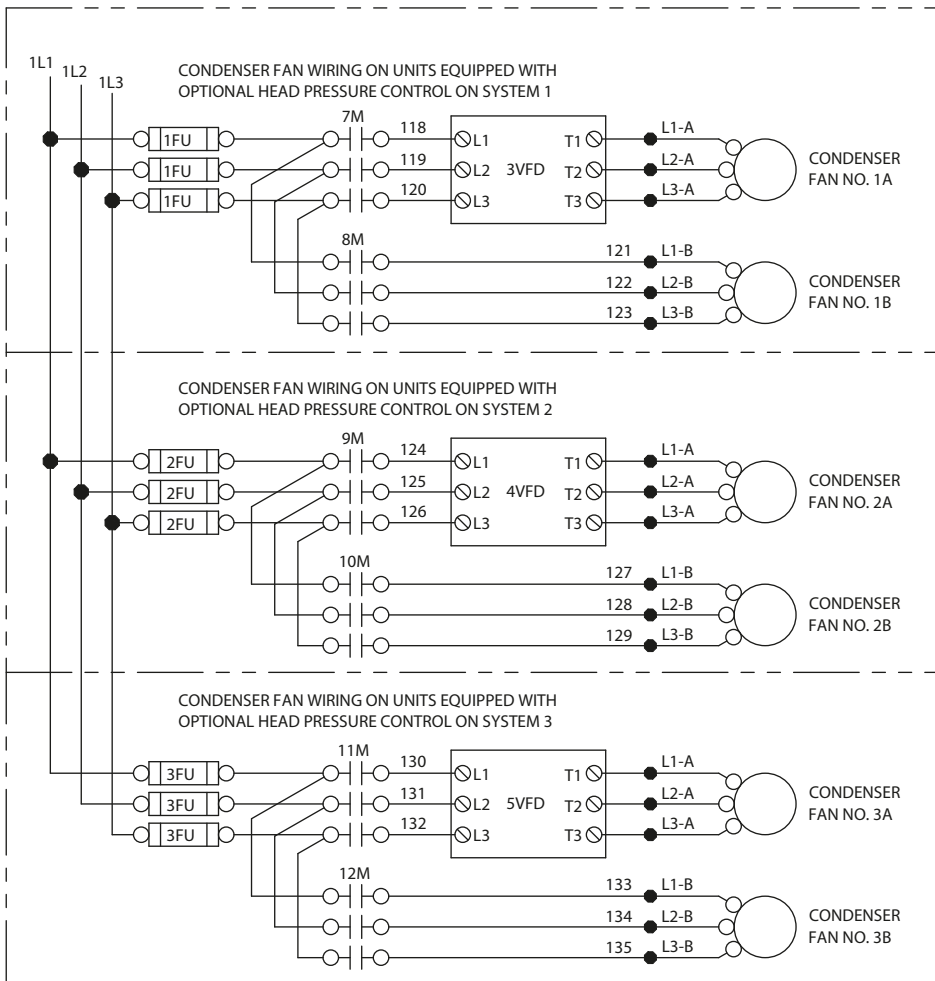
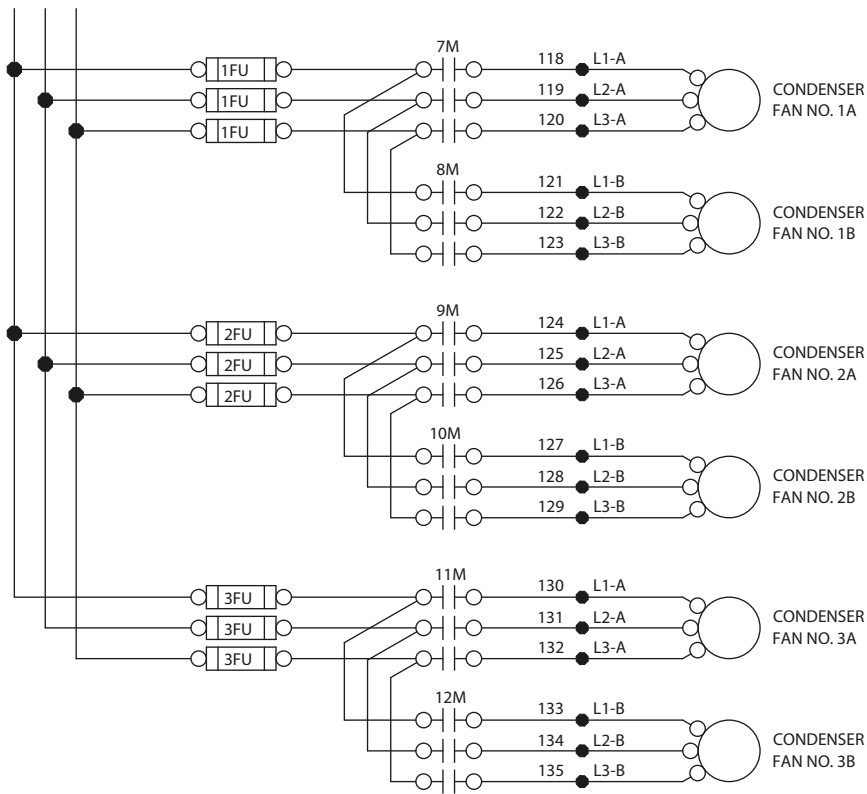


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LD11220

FIG. 8 – YPAL MOD-D POWER SIDE, 50-65 TON, SINGLE POINT POWER W/ RETURN FAN (ENLARGED VIEW #2)



LD11220

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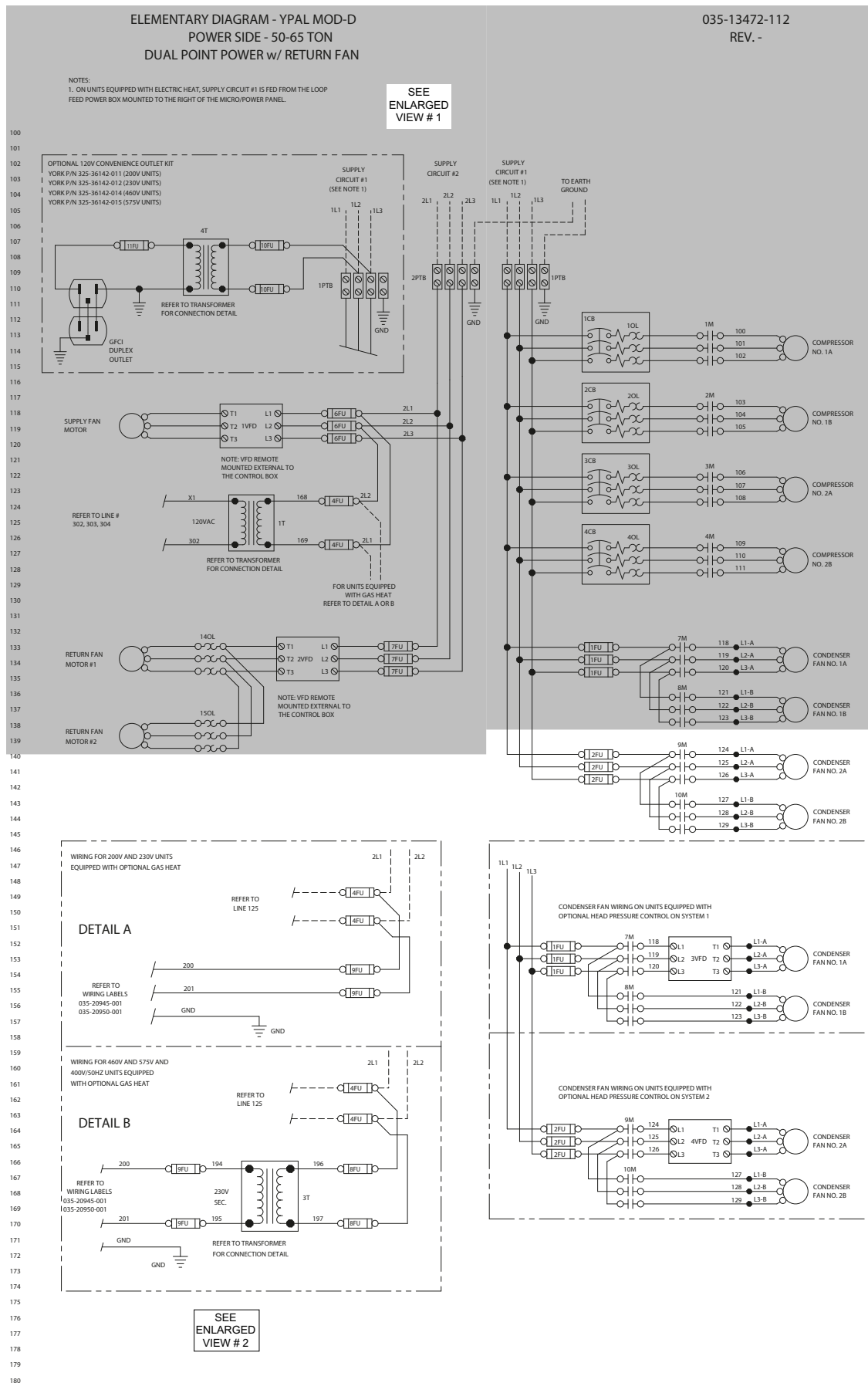


FIG. 9 – YPAL MOD-D POWER SIDE, 50-65 TON, DUAL POINT POWER W/ RETURN FAN

ELEMENTARY DIAGRAM - YPAL MOD-D POWER SIDE - 50-65 TON DUAL POINT POWER w/ RETURN FAN

NOTES:

1. ON UNITS EQUIPPED WITH ELECTRIC HEAT, SUPPLY CIRCUIT #1 IS FED FROM THE LOOP FEED POWER BOX MOUNTED TO THE RIGHT OF THE MICRO/POWER PANEL.

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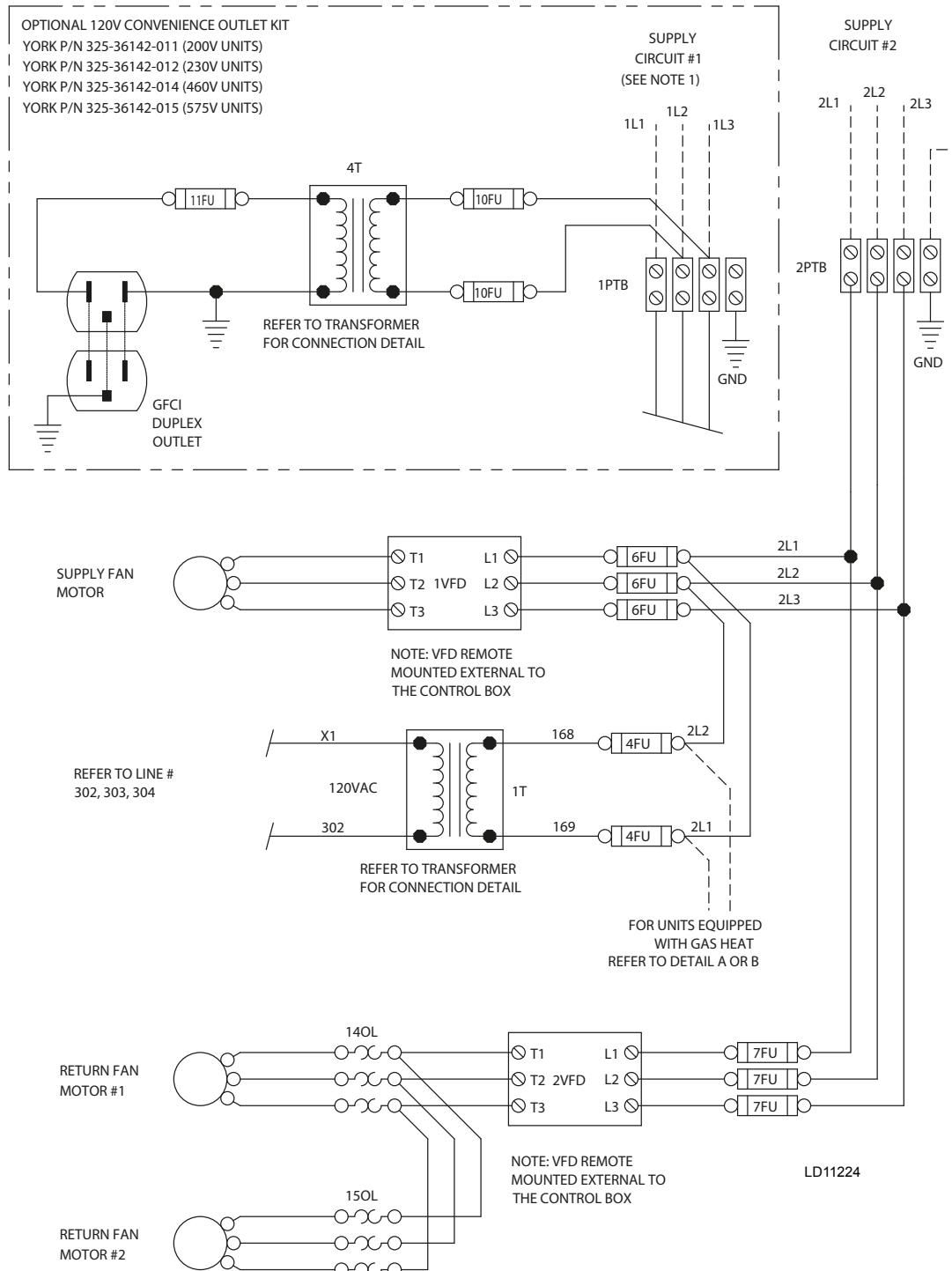
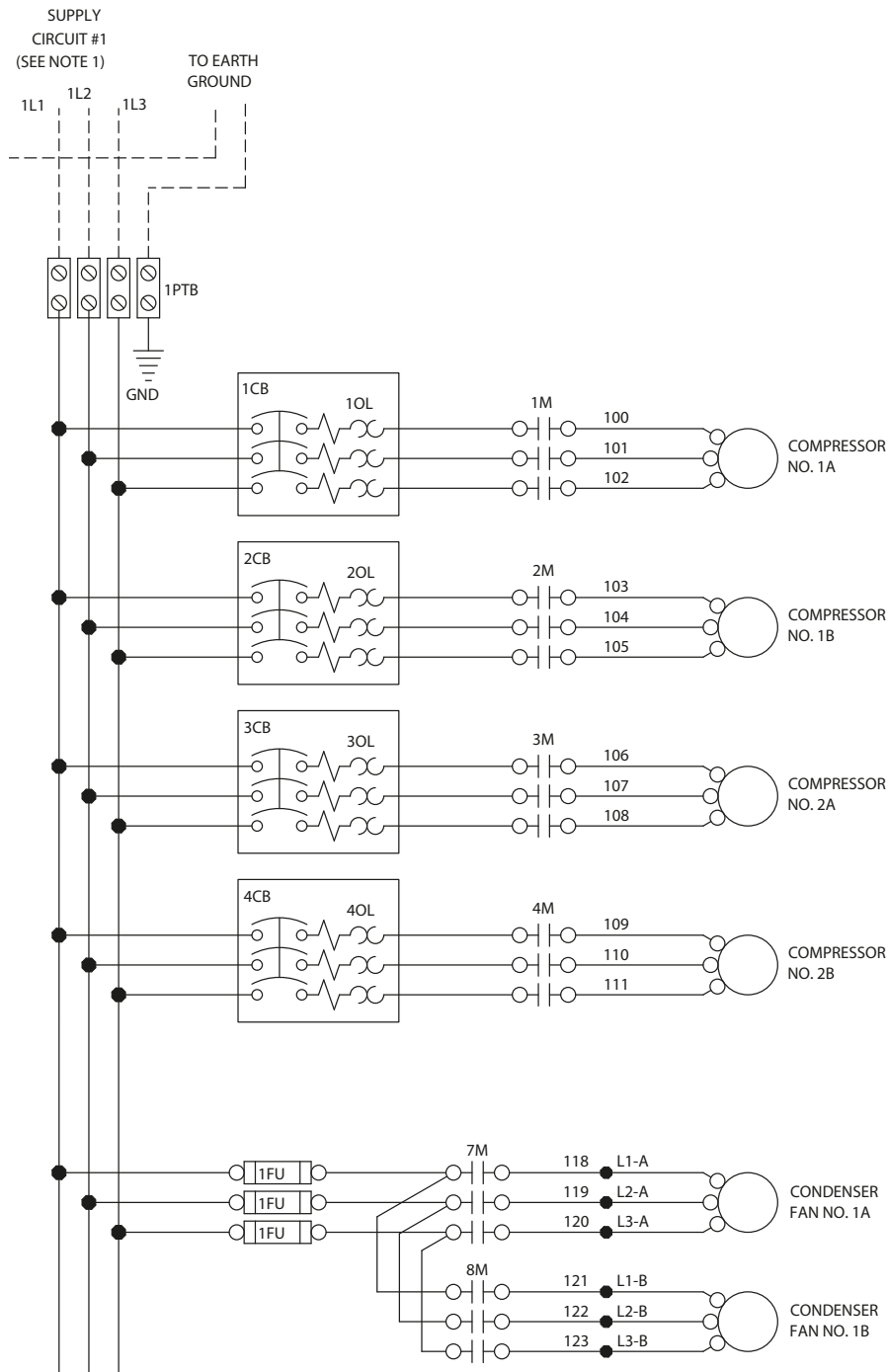


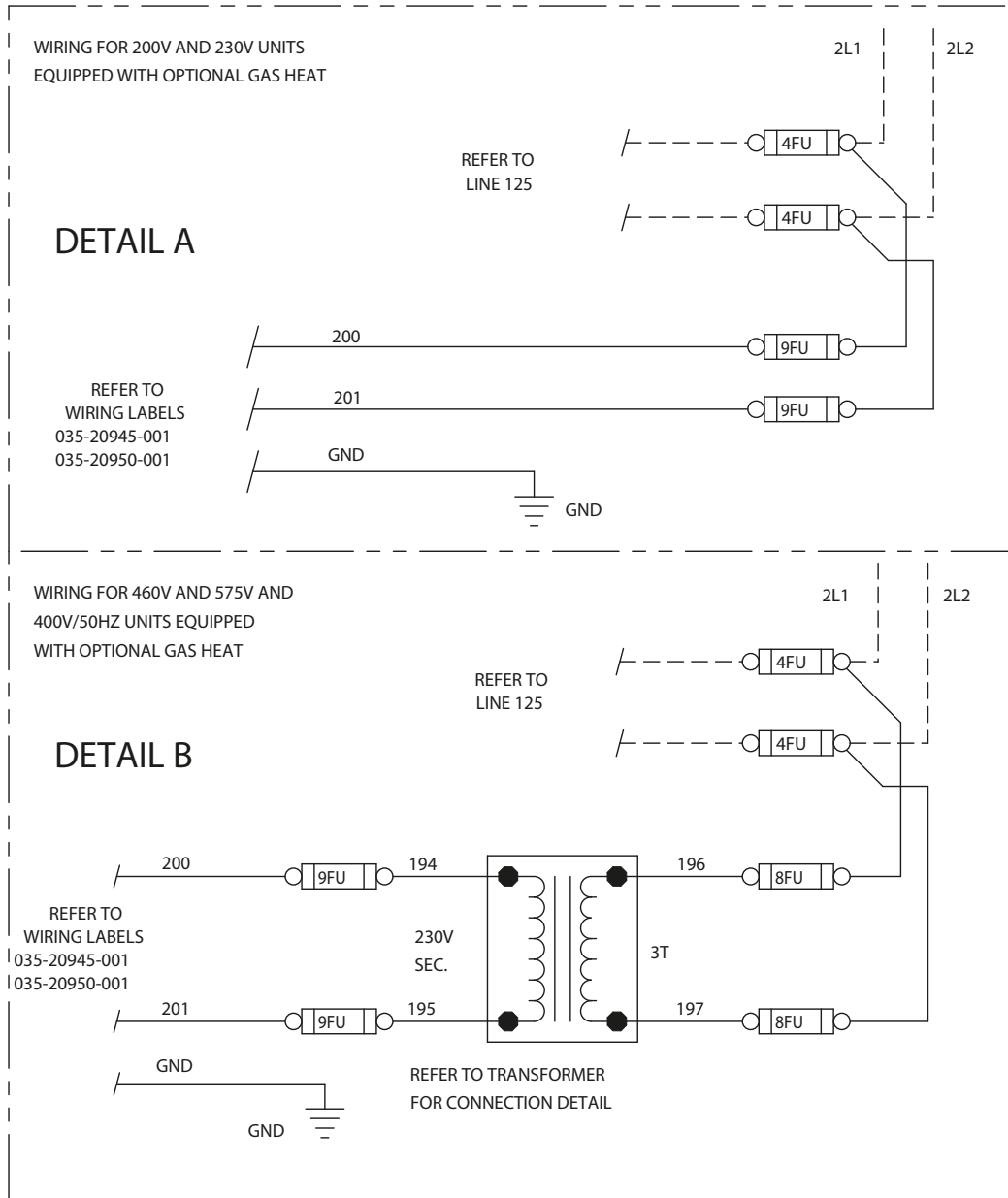
FIG. 9 – YPAL MOD-D POWER SIDE, 50-65 TON, DUAL POINT POWER W/ RETURN FAN (ENLARGED VIEW #1)

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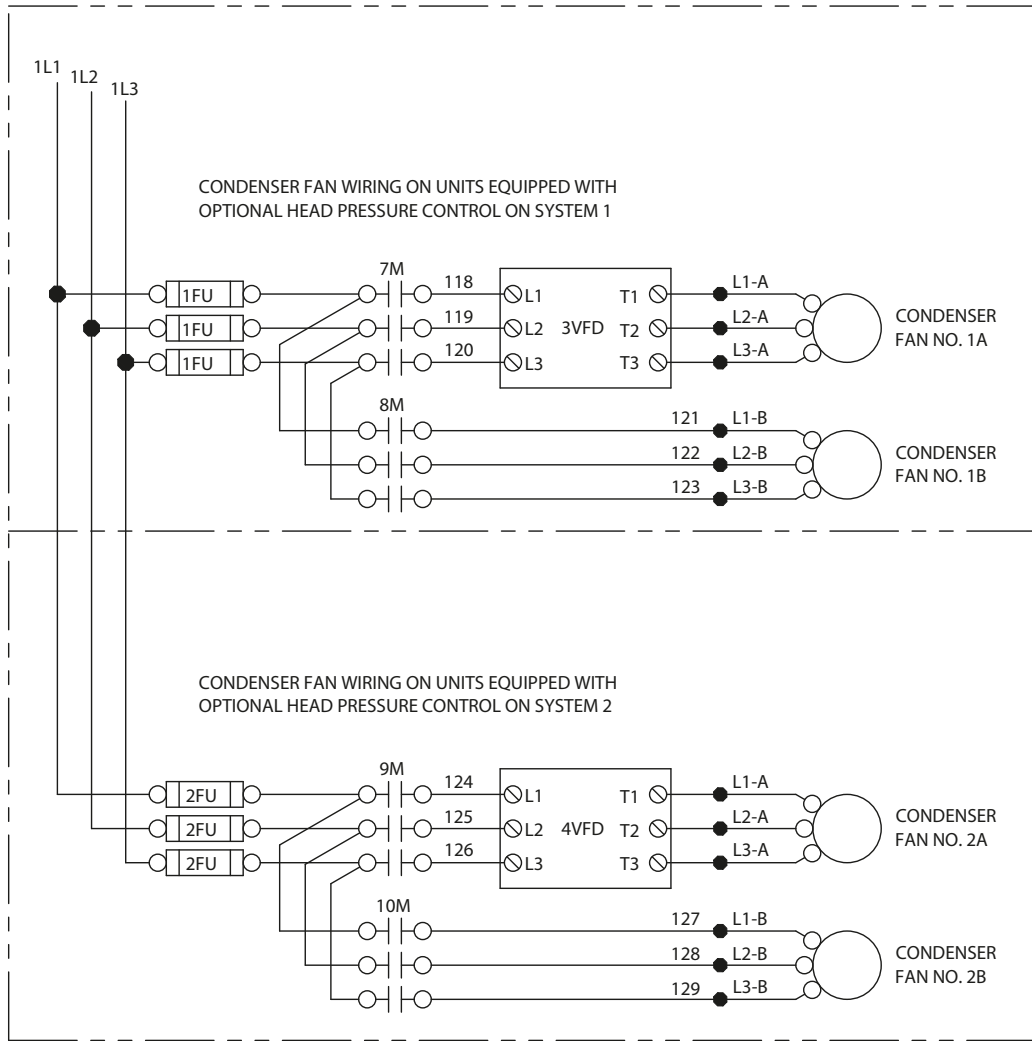
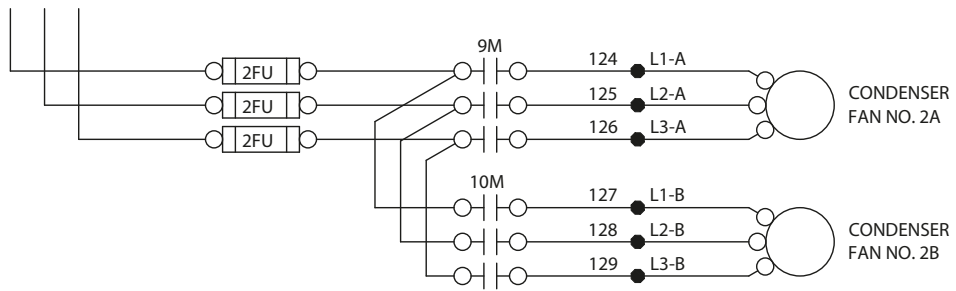
LD11224

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LD11225

FIG. 9 – YPAL MOD-D POWER SIDE, 50-65 TON, DUAL POINT POWER W/ RETURN FAN (ENLARGED VIEW #2)



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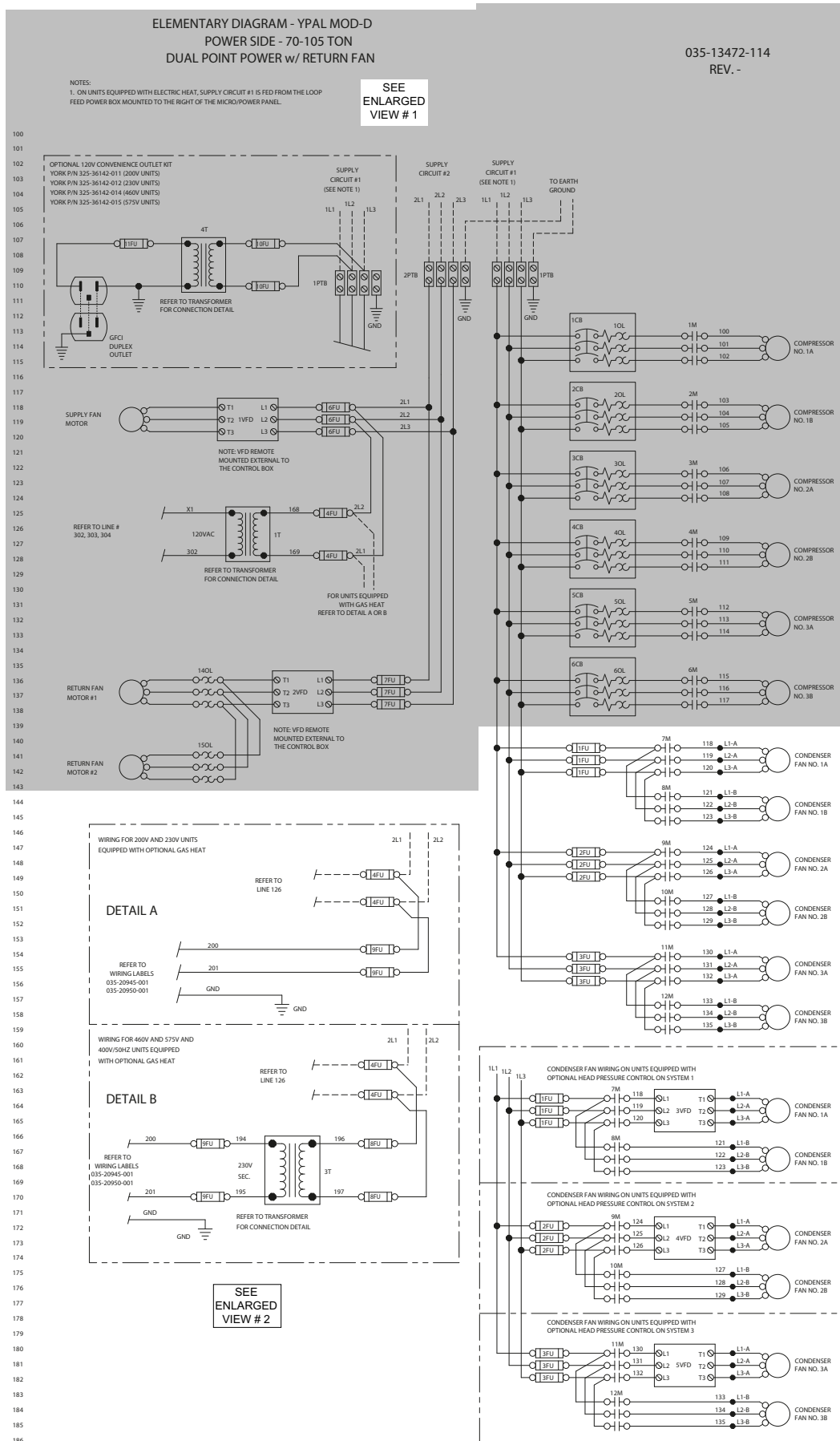


FIG. 10 – YPAL MOD-D POWER SIDE, 70-105 TON, DUAL POINT POWER W/ RETURN FAN

ELEMENTARY DIAGRAM - YPAL MOD-D POWER SIDE - 70-105 TON DUAL POINT POWER w/ RETURN FAN

- NOTES:
1. ON UNITS EQUIPPED WITH ELECTRIC HEAT, SUPPLY CIRCUIT #1 IS FED FROM THE LOOP FEED POWER BOX MOUNTED TO THE RIGHT OF THE MICRO/POWER PANEL.

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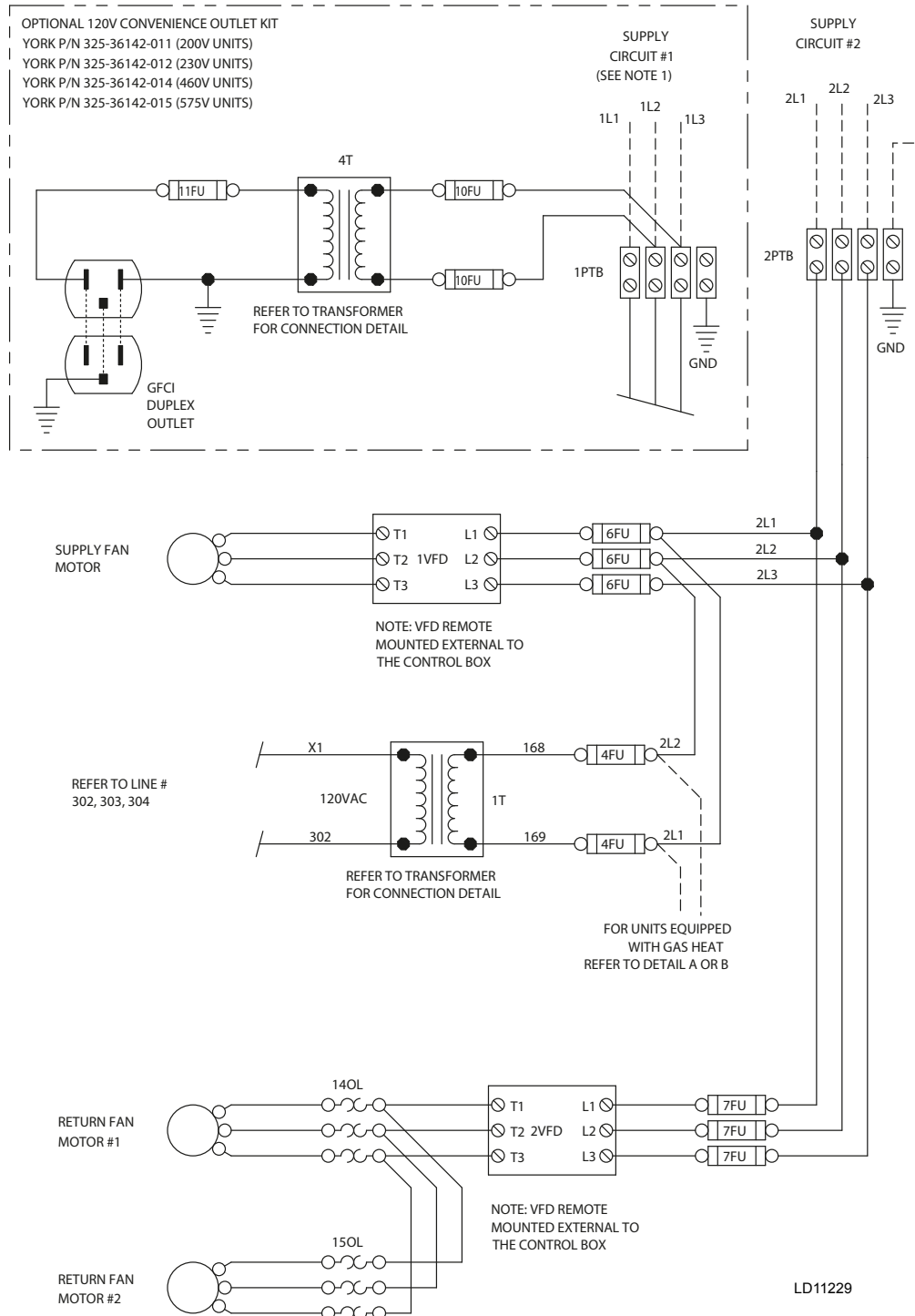
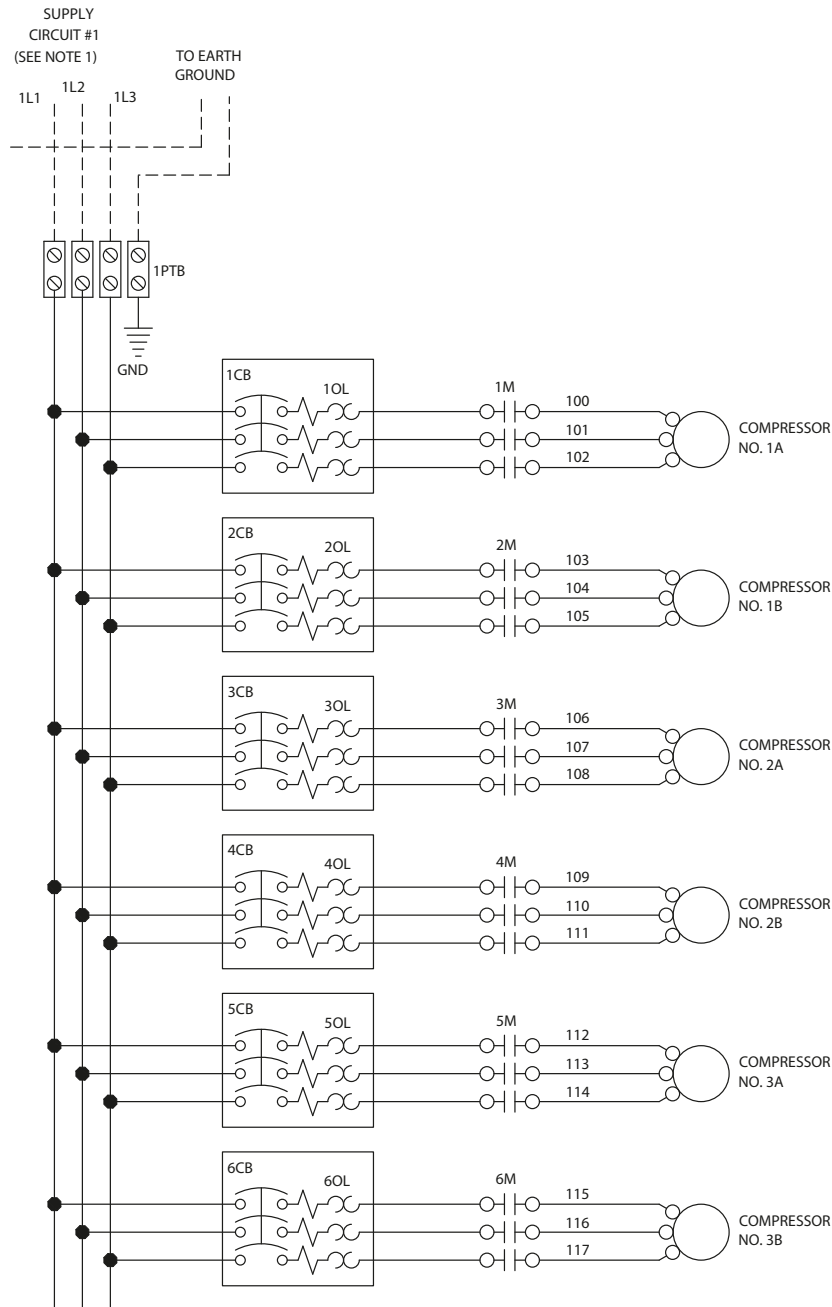


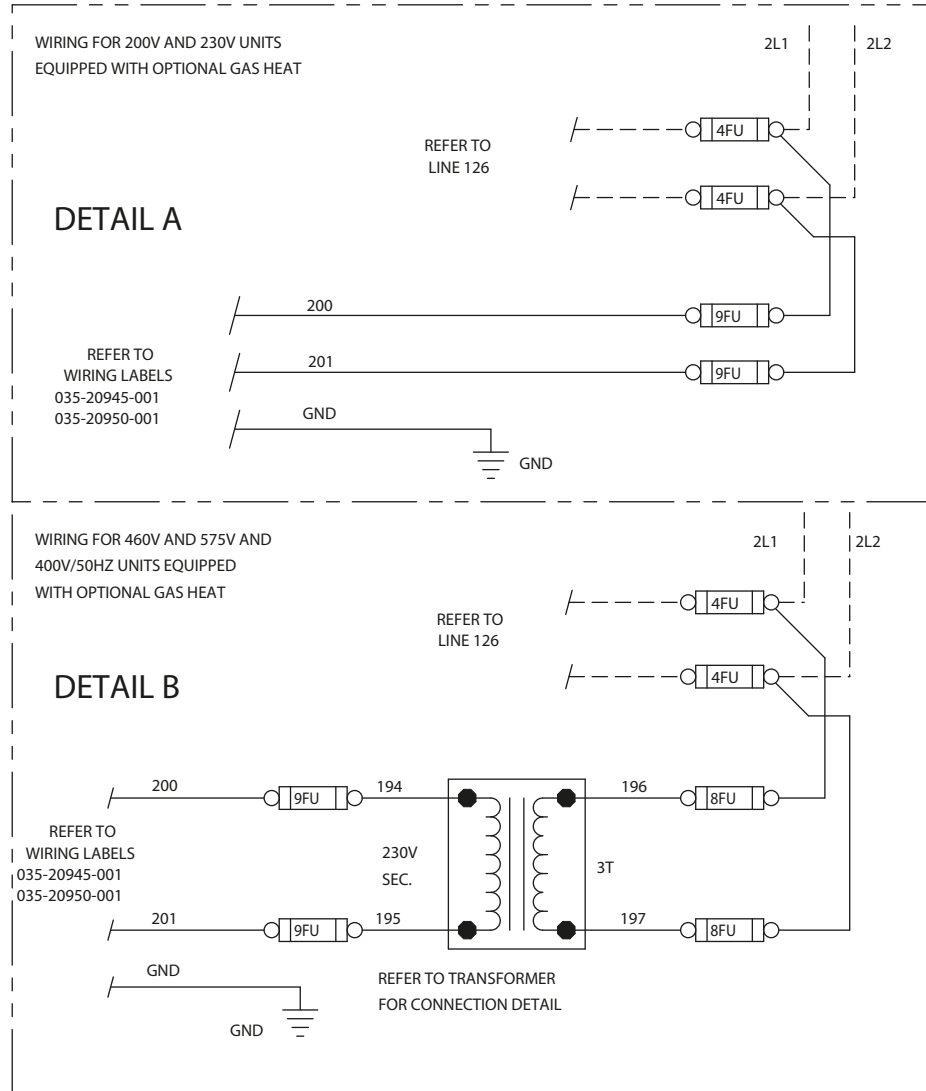
FIG. 10 – YPAL MOD-D POWER SIDE, 70-105 TON, DUAL POINT POWER W/ RETURN FAN (ENLARGED VIEW #1)

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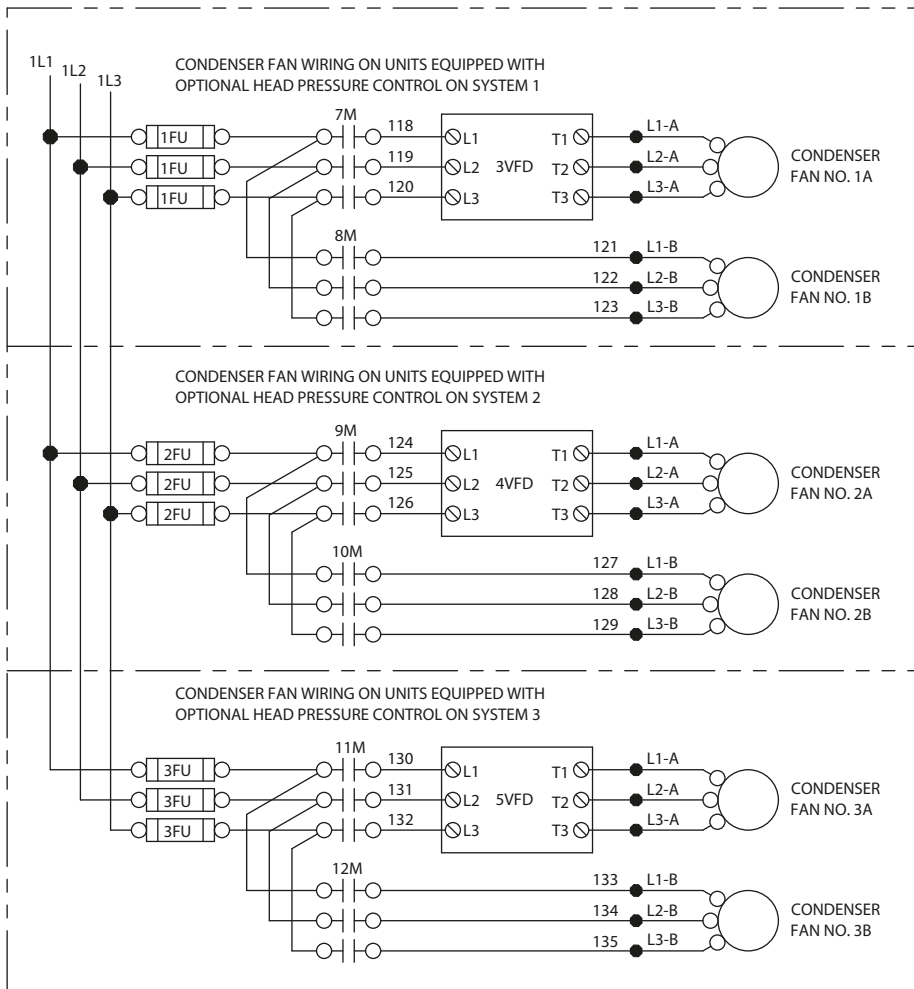
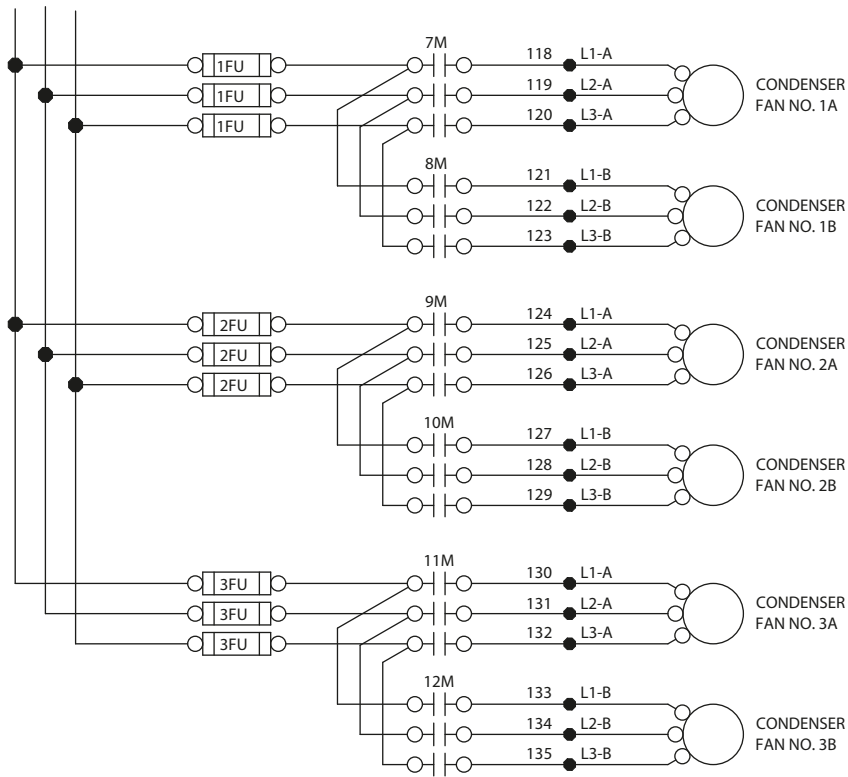
LD11229

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LD11230

**FIG. 10 – YPAL MOD-D POWER SIDE, 70-105 TON, DUAL POINT POWER W/ RETURN FAN
(ENLARGED VIEW #2)**



LD11230

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**YPAL COMPONENT MAP
CV FAN SUBPANEL
SINGLE POINT POWER**

NOTES:
1. TYPICAL SHOWN, COMPONENT LOCATIONS AND SIZES MAY VARY SLIGHTLY BASED ON APPLICATION.
2. REFER TO PANEL COMPONENT MAP FOR LOCATION OF FAN SUBPANEL.

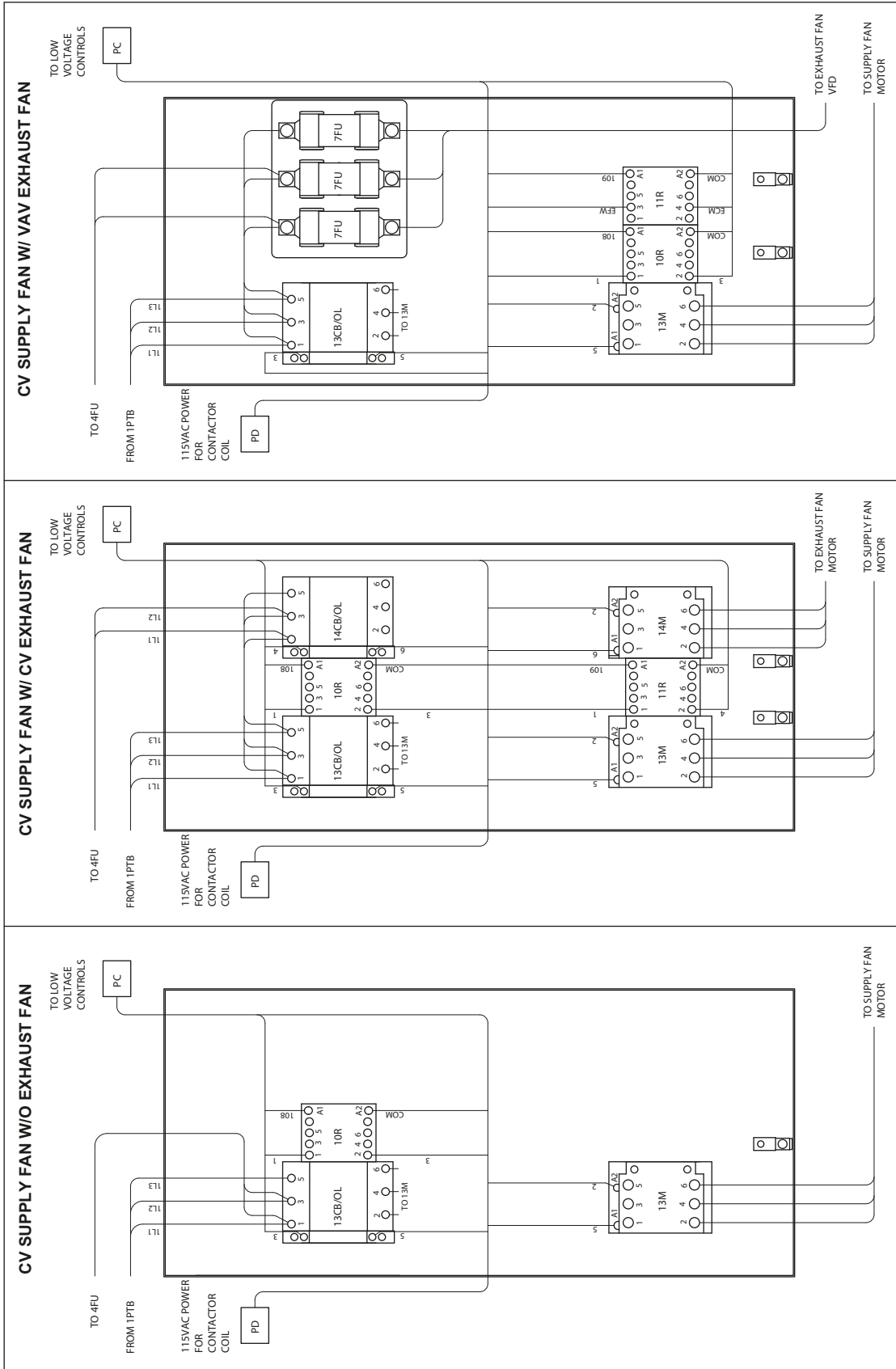


FIG. 11 – YPAL CV FAN SUBPANEL, SINGLE POINT POWER

LD11233

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REV. -

**YPAL COMPONENT MAP
VAV FAN SUBPANEL
SINGLE POINT POWER**

NOTES:
1. TYPICAL SHOWN, COMPONENT LOCATIONS AND SIZES MAY VARY SLIGHTLY
BASED ON APPLICATION.
2. REFER TO PANEL COMPONENT MAP FOR LOCATION OF FAN SUBPANEL.

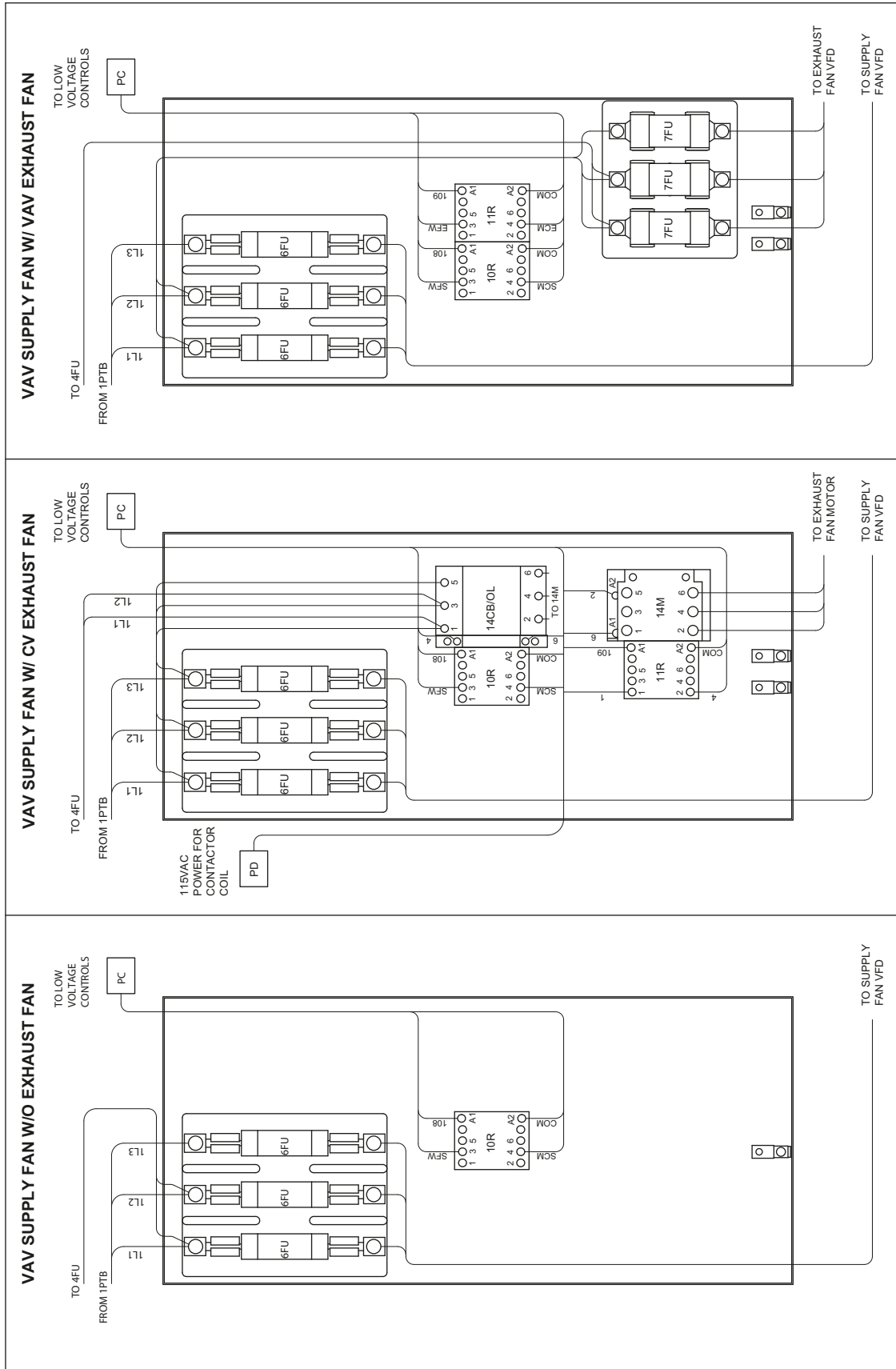


FIG. 13 – YPAL VAV FAN SUBPANEL, SINGLE POINT POWER

LD11235

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YPAL COMPONENT MAP
VAV FAN SUBPANEL
DUAL POINT POWER

NOTES:
1. TYPICAL SHOWN. COMPONENT LOCATIONS AND SIZES MAY VARY SLIGHTLY
BASED ON APPLICATION.
2. REFER TO PANEL COMPONENT MAP FOR LOCATION OF FAN SUBPANEL.

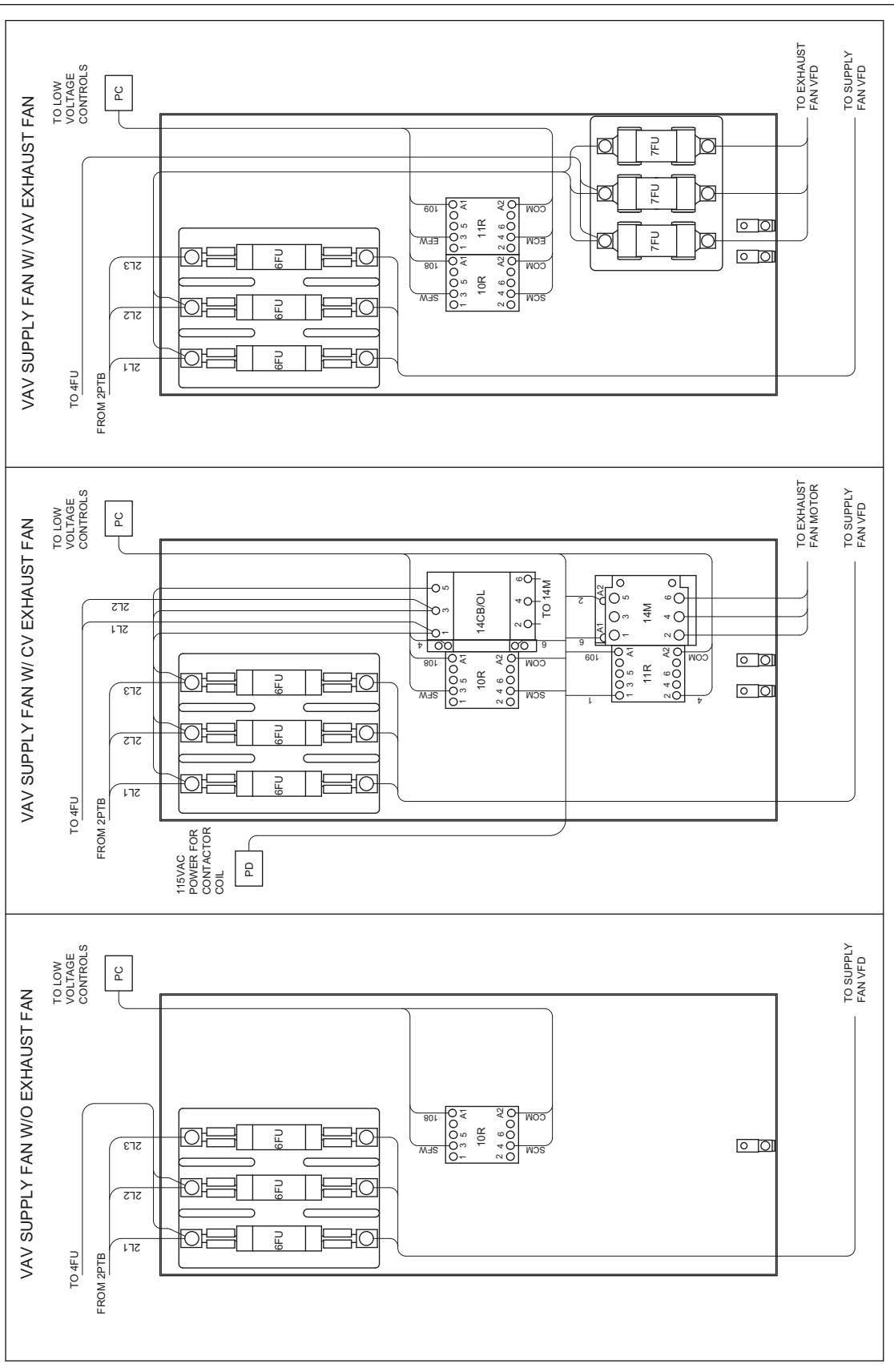
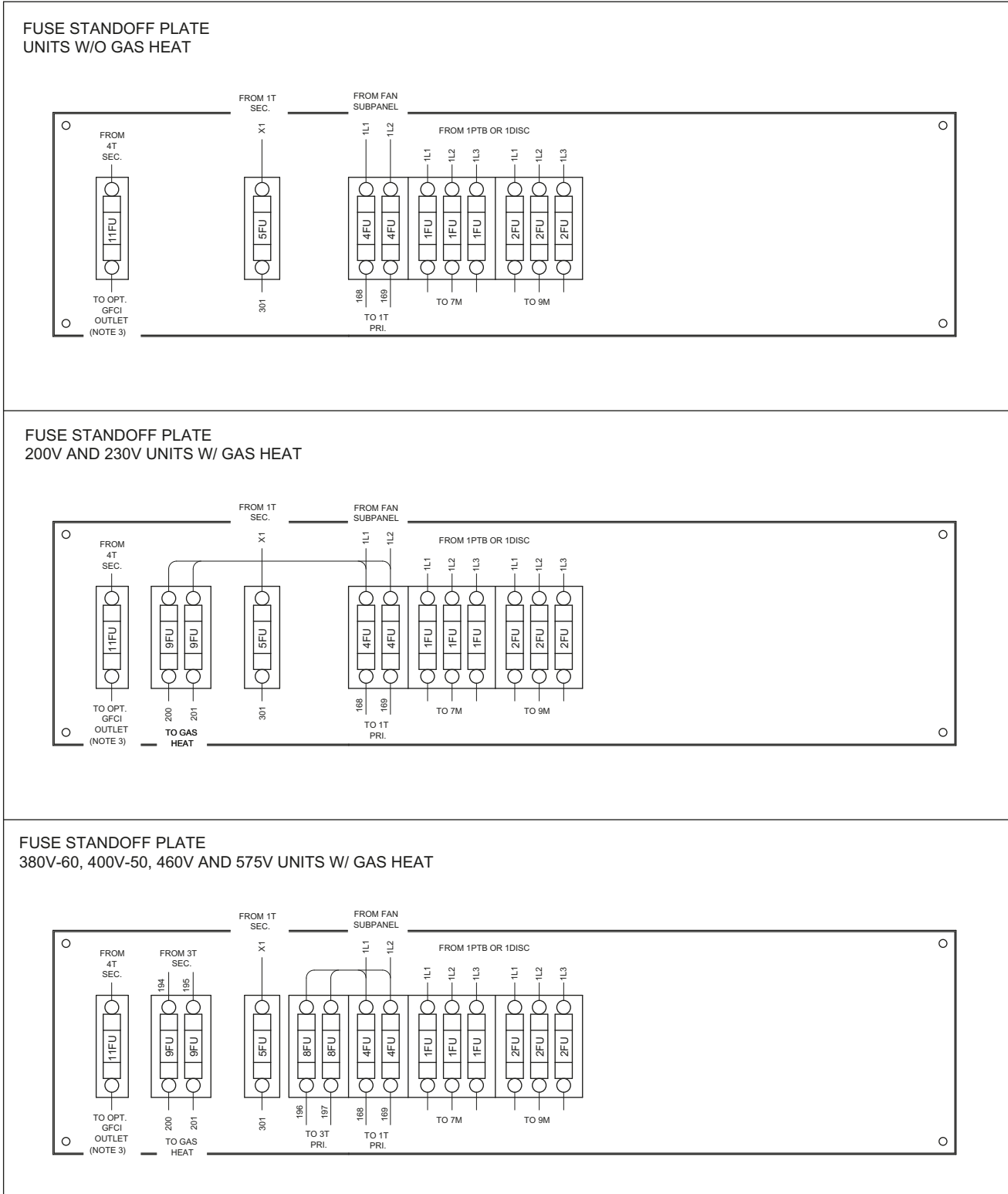


FIG. 16 – YPAL VAV FAN SUBPANEL, DUAL POINT POWER

LD11238

- NOTES:
 1. TYPICAL SHOWN, COMPONENT LOCATIONS AND SIZES MAY VARY SLIGHTLY BASED ON APPLICATION.
 2. REFER TO PANEL COMPONENT MAP FOR LOCATION OF FUSE STANDOFF PLATE.
 3. 11FU ONLY REQUIRED ON UNITS WITH A CONVENIENCE OUTLET.

YPAL COMPONENT MAP
 FUSE STANDOFF PLATE
 50-65 TON SINGLE POINT
 POWER

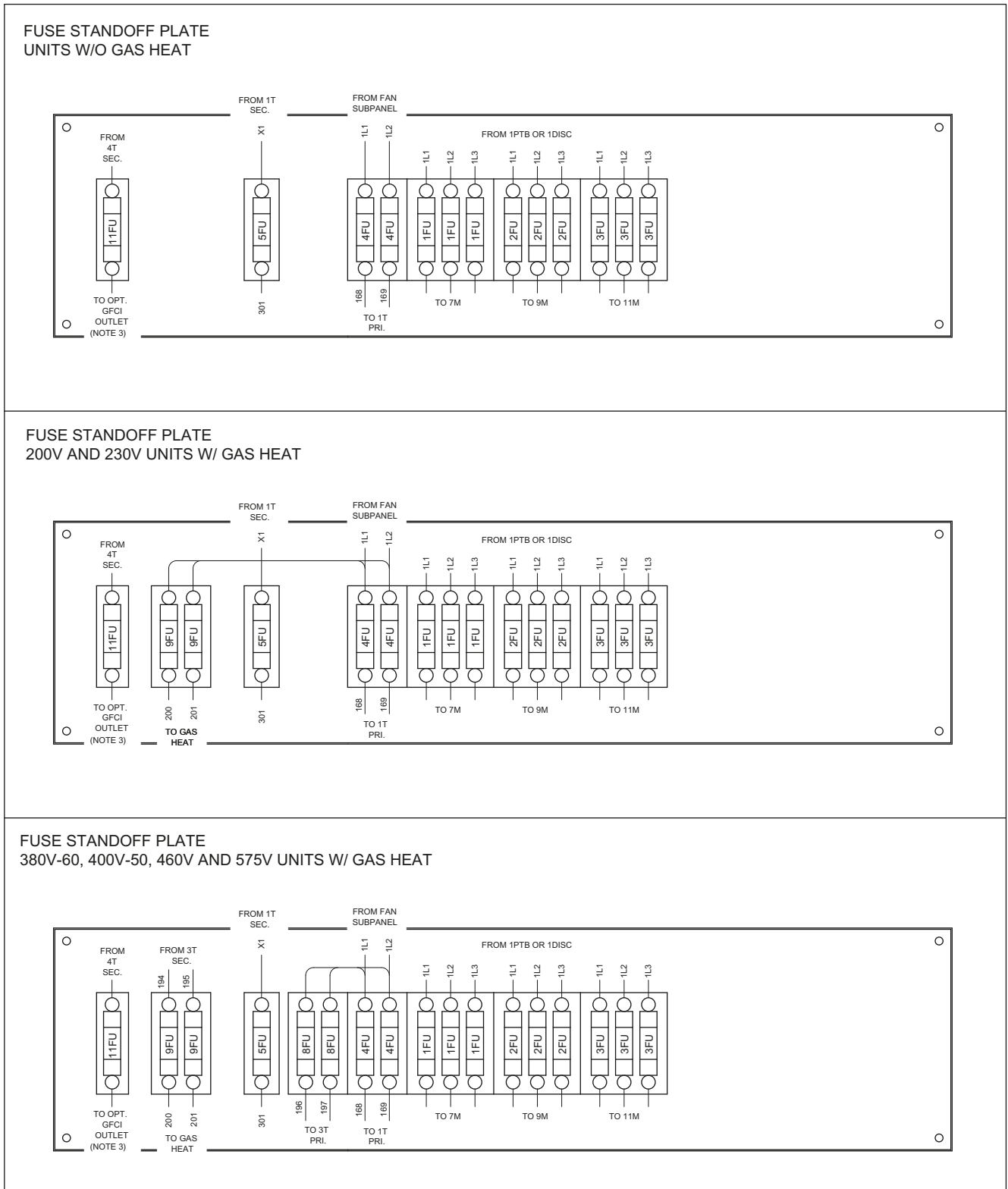


LD11239

FIG. 17 – YPAL FUSE STANDOFF PLATE, 50-65 TON, SINGLE POINT POWER

- NOTES:
 1. TYPICAL SHOWN, COMPONENT LOCATIONS AND SIZES MAY VARY SLIGHTLY BASED ON APPLICATION.
 2. REFER TO PANEL COMPONENT MAP FOR LOCATION OF FUSE STANDOFF PLATE.
 3. 11FU ONLY REQUIRED ON UNITS WITH A CONVENIENCE OUTLET.

YPAL COMPONENT MAP
 FUSE STANDOFF PLATE
 70-105 TON SINGLE POINT
 POWER



LD11240

FIG. 18 – YPAL FUSE STANDOFF PLATE, 70-105 TON, SINGLE POINT POWER

- NOTES:
 1. TYPICAL SHOWN, COMPONENT LOCATIONS AND SIZES MAY VARY SLIGHTLY BASED ON APPLICATION.
 2. REFER TO PANEL COMPONENT MAP FOR LOCATION OF FUSE STANDOFF PLATE.
 3. 11FU ONLY REQUIRED ON UNITS WITH A CONVENIENCE OUTLET.

**YPAL COMPONENT MAP
 FUSE STANDOFF PLATE
 50-65 TON DUAL POINT
 POWER**

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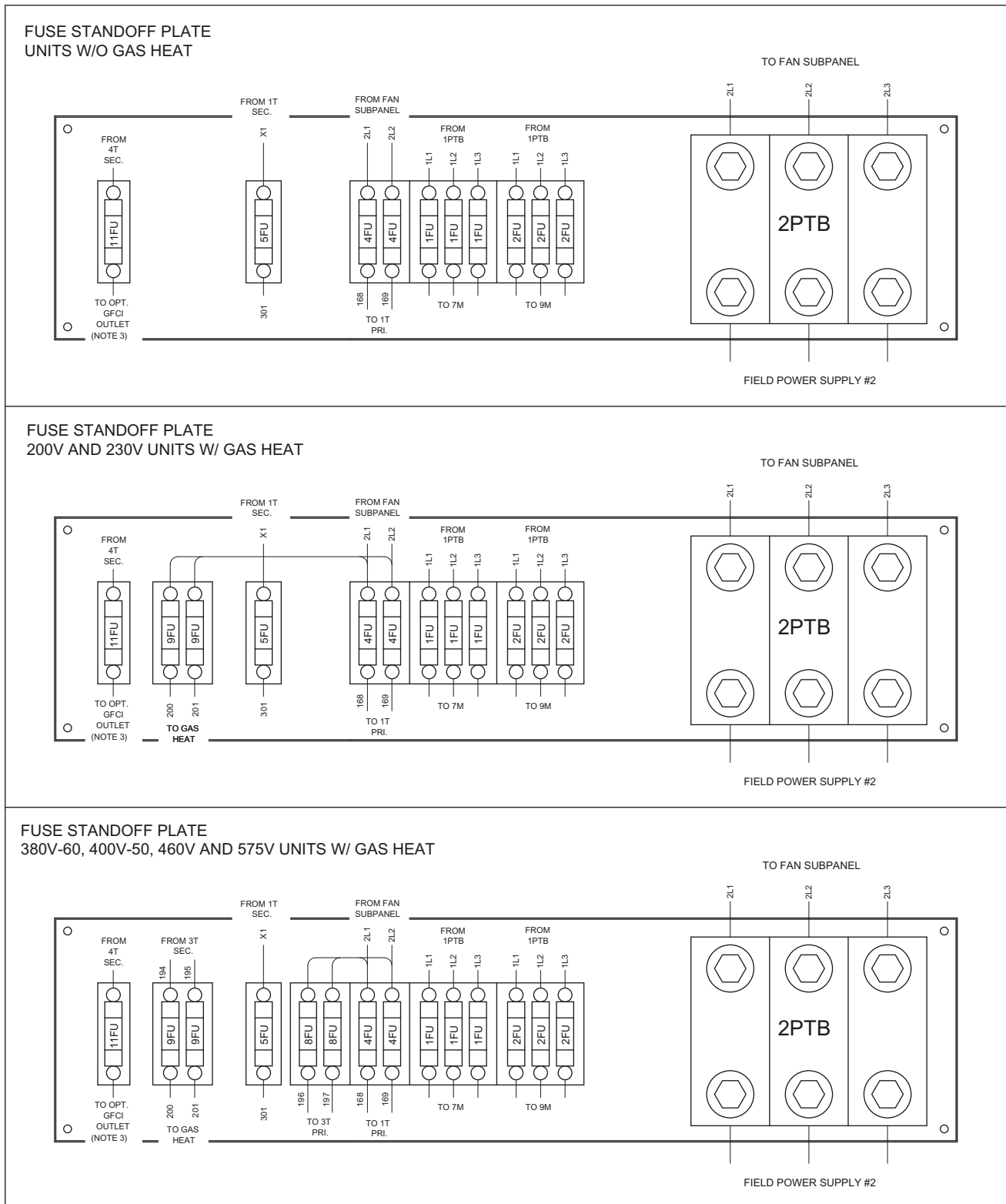


FIG. 19 – YPAL FUSE STANDOFF PLATE, 50-65 TON, DUAL POINT POWER

- NOTES:
 1. TYPICAL SHOWN, COMPONENT LOCATIONS AND SIZES MAY VARY SLIGHTLY BASED ON APPLICATION.
 2. REFER TO PANEL COMPONENT MAP FOR LOCATION OF FUSE STANDOFF PLATE.
 3. 11FU ONLY REQUIRED ON UNITS WITH A CONVENIENCE OUTLET.

**YPAL COMPONENT MAP
 FUSE STANDOFF PLATE
 70-105 TON DUAL POINT
 POWER**

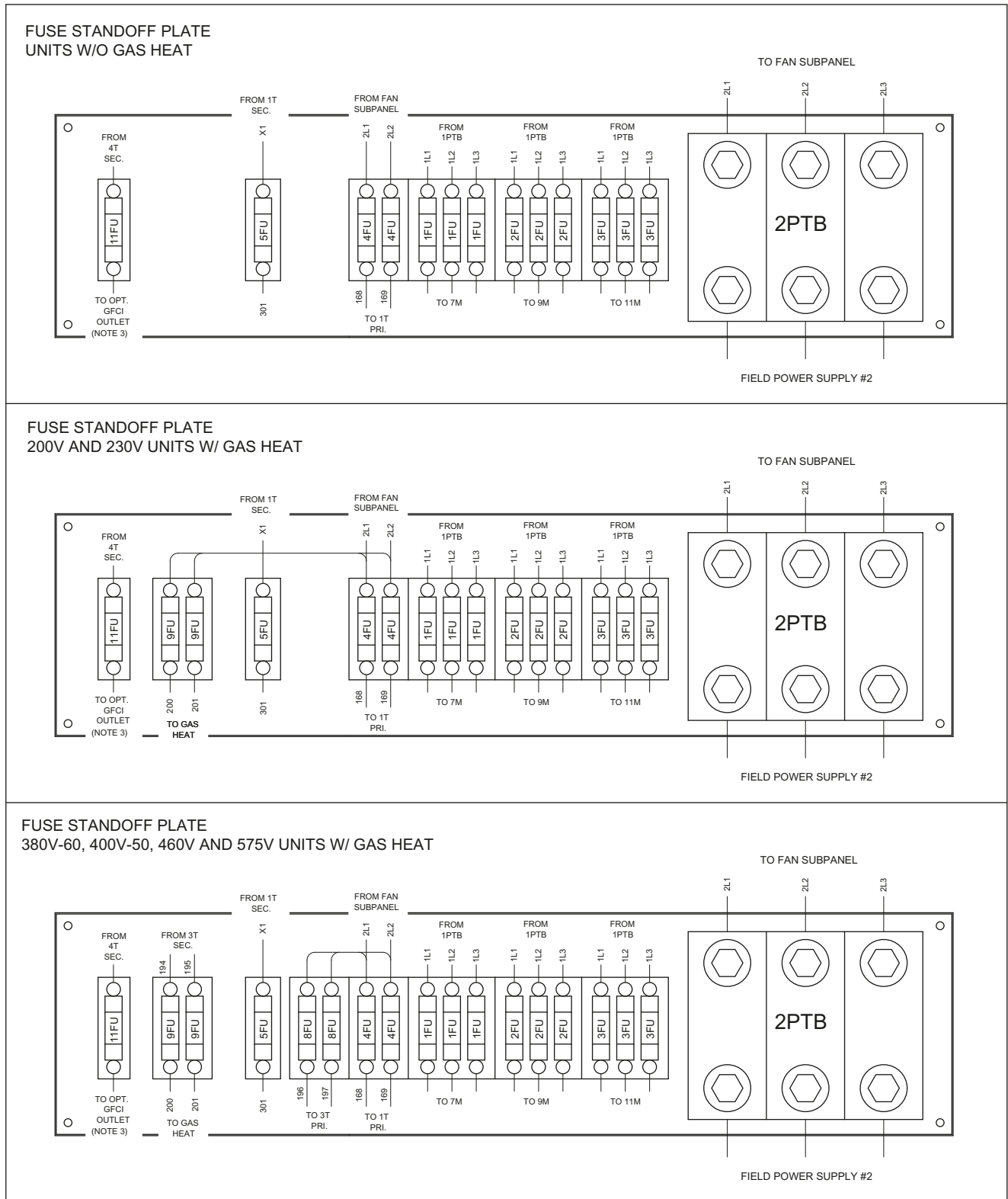
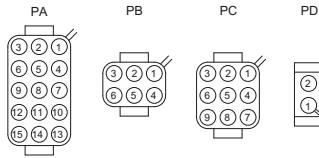


FIG. 20 – YPAL FUSE STANDOFF PLATE, 70-105 TON, DUAL POINT POWER

- NOTES:
 1. 3T IS ONLY REQUIRED ON 400V-50, 380V-60, 460V, AND 575V UNITS WITH GAS HEAT.
 2. 4T, 10FU, AND 11FU ARE ONLY REQUIRED FOR OPTIONAL CONVENIENCE OUTLET.



PLUG NO.	WIRE NO.	POSITION	WIRE NO.	POSITION
PA & JA	425	1	439	9
	427	2	440	10
	429	3		11
	431	4		12
		5	443	13
		6	444	14
	437	7		15
	438	8		

PLUG NO.	WIRE NO.	POSITION
PB & JB	301	1
	302	2
	303	3
	376	4
	377	5
		6

NOTE, VIEWED FROM WIRING END.

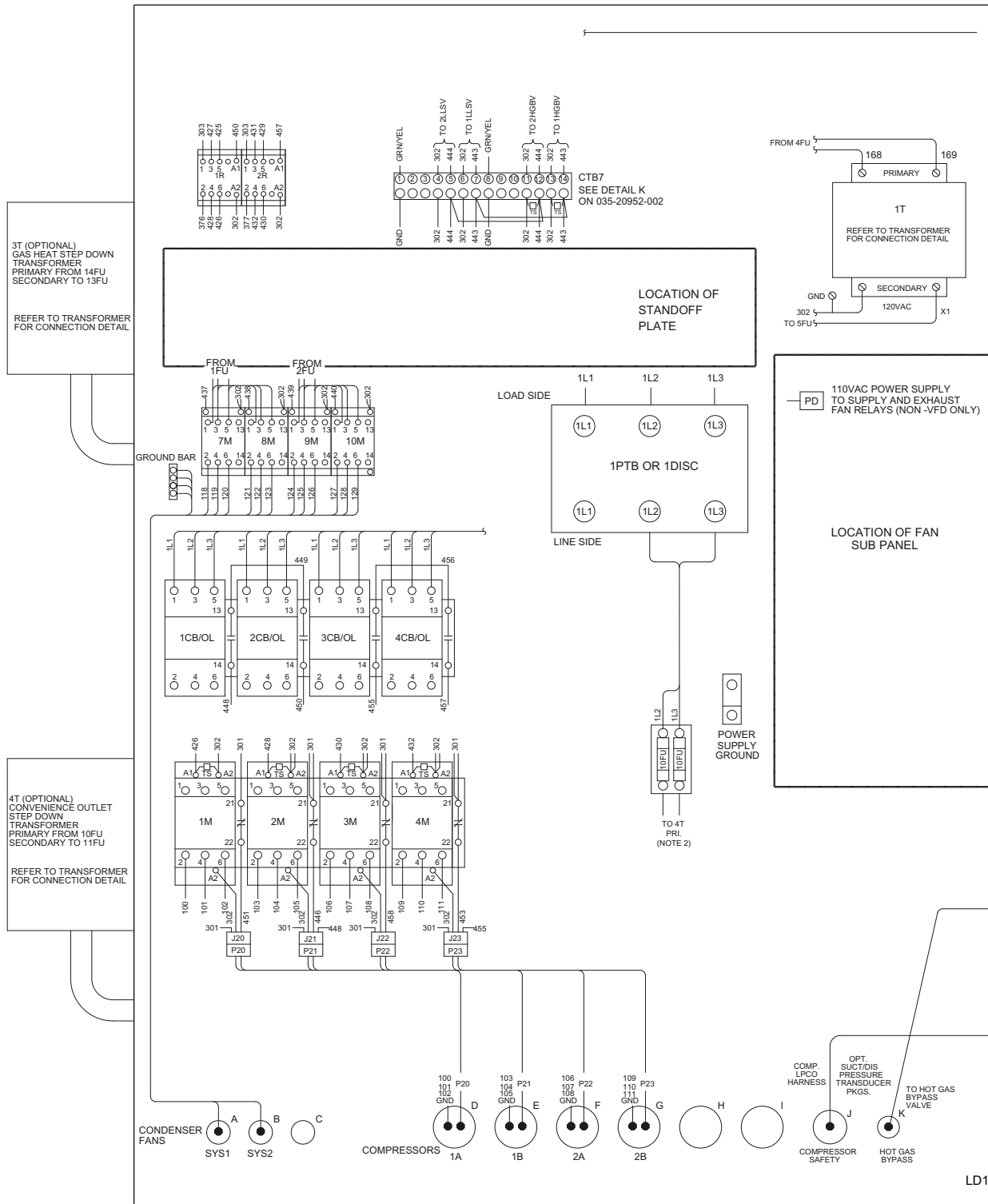


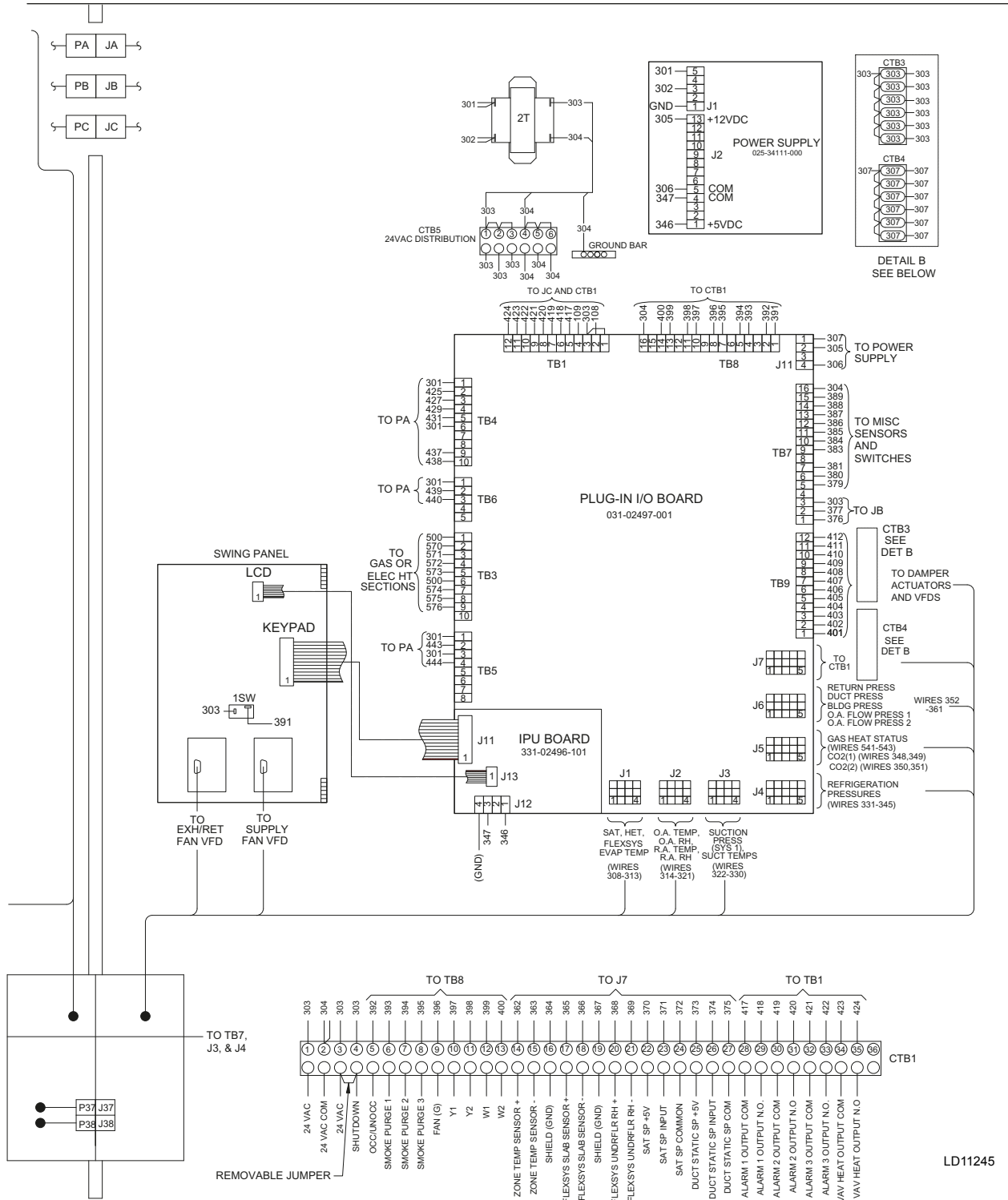
FIG. 21 – YPAL POWER PANEL, 50-65 TON, MOD D, SMALL ENCLOSURE

PLUG NO.	WIRE NO.	POSITION	WIRE NO.	JACK NO.
PC	108	1	108	JC
	109	2	109	
	COM	3	304	
	SFW	4	SFW	
	SCM	5	SCM	
	EFW	6	EFW	
	ECM	7	ECM	
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PLUG NO.	WIRE NO.	POSITION	WIRE NO.	PLUG NO.
PD	1	1	301	JD
	2	2	302	

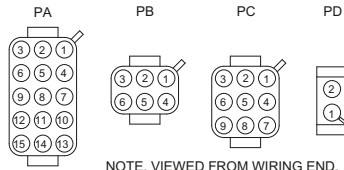
YPAL COMPONENT MAP
POWER PANEL, 50-65 TON
MOD D

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LD11245

- NOTES:
 1. 3T IS ONLY REQUIRED ON 400V-50, 380V-60, 460V, AND 575V UNITS WITH GAS HEAT.
 2. 4T, 10FU, AND 11FU ARE ONLY REQUIRED FOR OPTIONAL CONVENIENCE OUTLET.



NOTE, VIEWED FROM WIRING END.

PLUG NO.	WIRE NO.	POSITION	WIRE NO.	POSITION
PA & JA	425	1	439	9
	427	2	440	10
	429	3	441	11
	431	4	442	12
	433	5	443	13
	435	6	444	14
	437	7	445	15
	438	8		

PLUG NO.	WIRE NO.	POSITION
PB & JB	301	1
	302	2
	303	3
	376	4
	377	5
	378	6

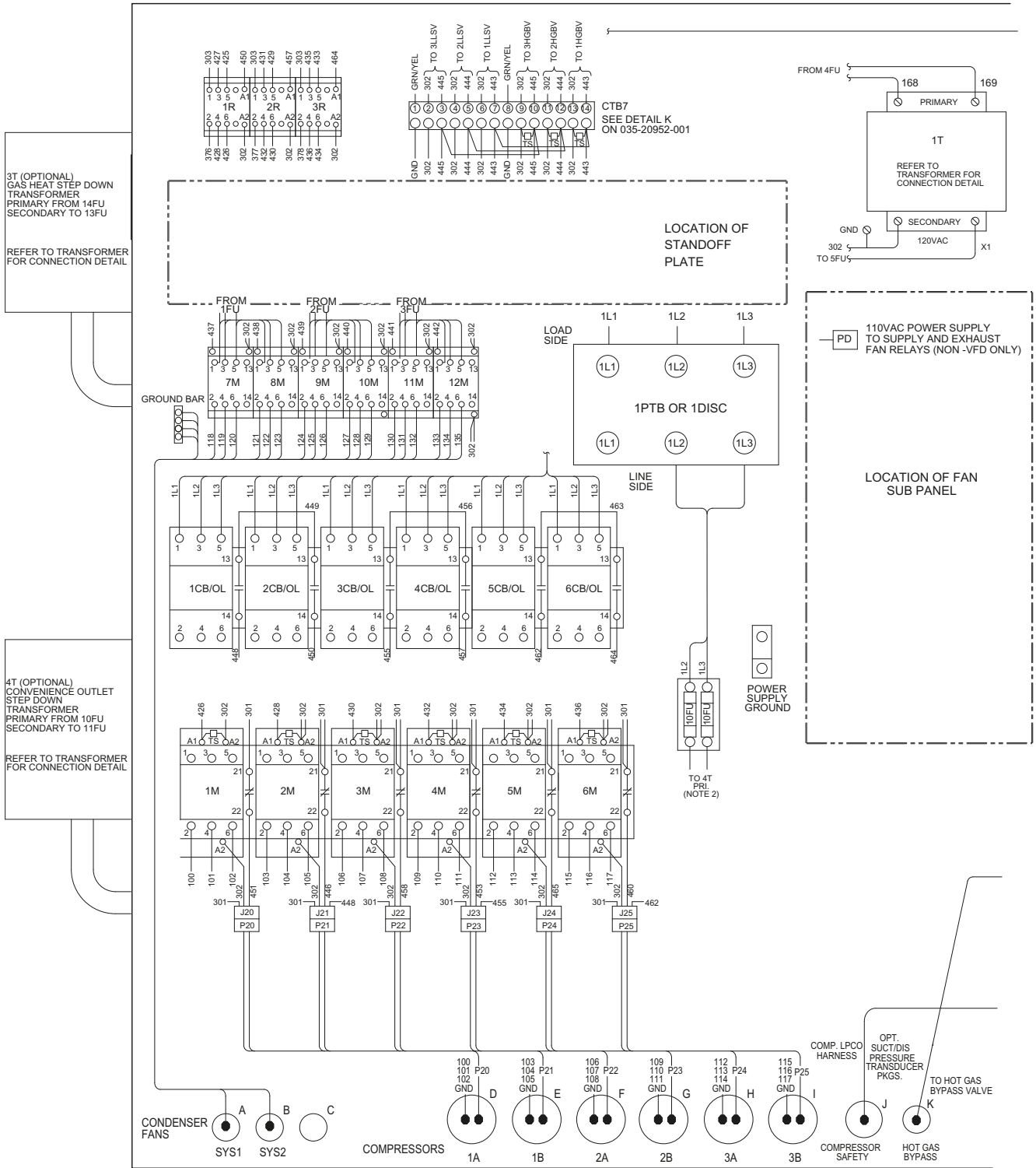


FIG. 22 – YPAL POWER PANEL, 70-105 TON, MOD D, SMALL ENCLOSURE

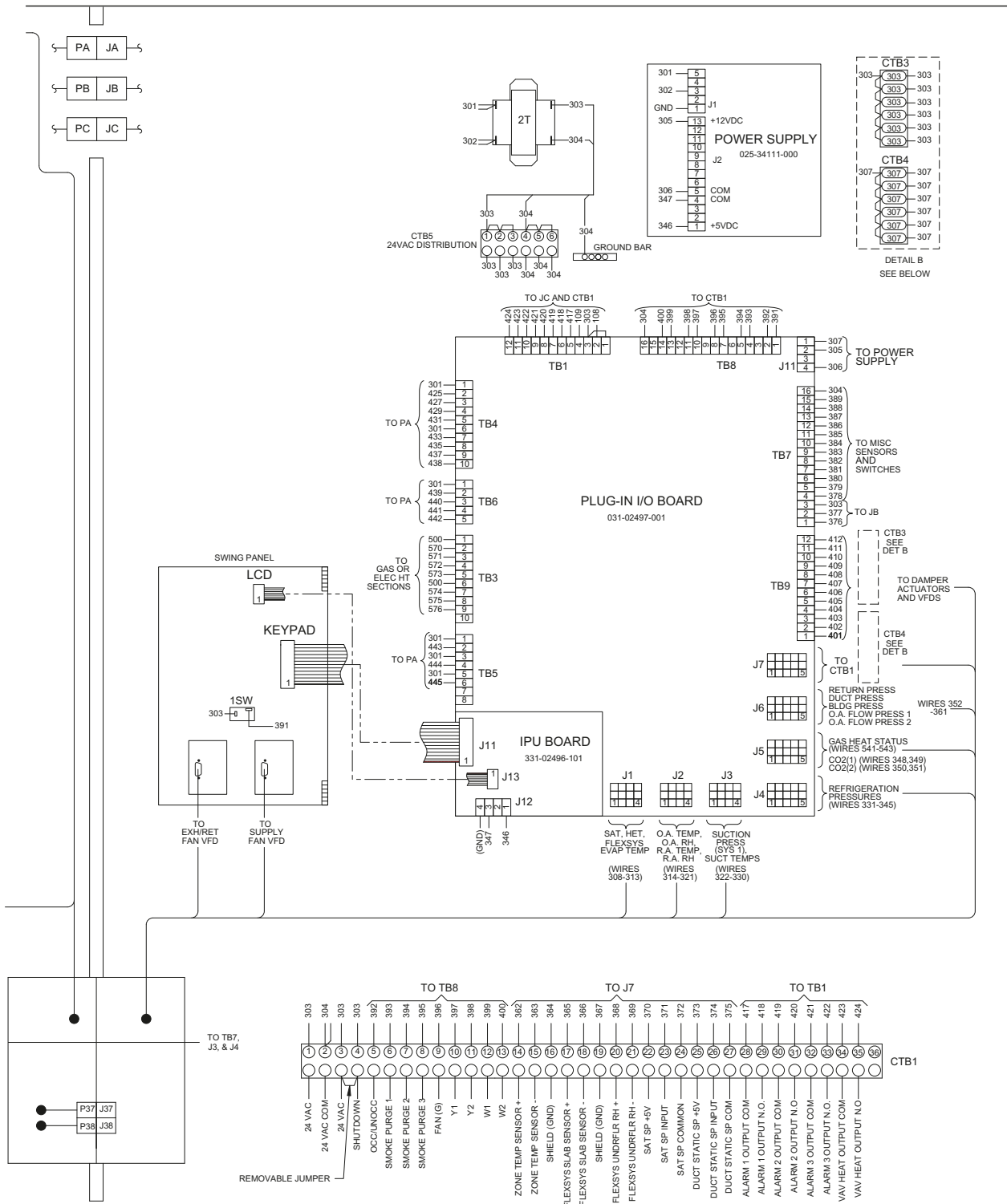
LD11247

PLUG NO.	WIRE NO.	POSITION	WIRE NO.	JACK NO.
PC	108	1	108	JC
	109	2	109	
	COM	3	304	
	SFW	4	SFW	
	SCM	5	SCM	
	EFW	6	EFW	
	ECM	7	ECM	
		8		
		9		

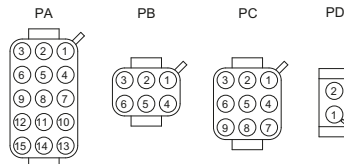
PLUG NO.	WIRE NO.	POSITION	WIRE NO.	PLUG NO.
PD	1	1	301	JD
	2	2	302	

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REV. -

YPAL COMPONENT MAP
POWER PANEL, 70-105 TON
MOD D



NOTES:
 1. 3T IS ONLY REQUIRED ON 400V-50, 380V-60, 460V, AND 575V UNITS WITH GAS HEAT.
 2. 4T, 10FU, AND 11FU ARE ONLY REQUIRED FOR OPTIONAL CONVENIENCE OUTLET.



NOTE, VIEWED FROM WIRING END.

PLUG NO.	WIRE NO.	POSITION	WIRE NO.	POSITION
PA & JA	425	1	439	9
	427	2	440	10
	429	3		11
	431	4		12
		5	443	13
		6	444	14
	437	7		15
	438	8		

PLUG NO.	WIRE NO.	POSITION
PB & JB	301	1
	302	2
	303	3
	376	4
	377	5
		6

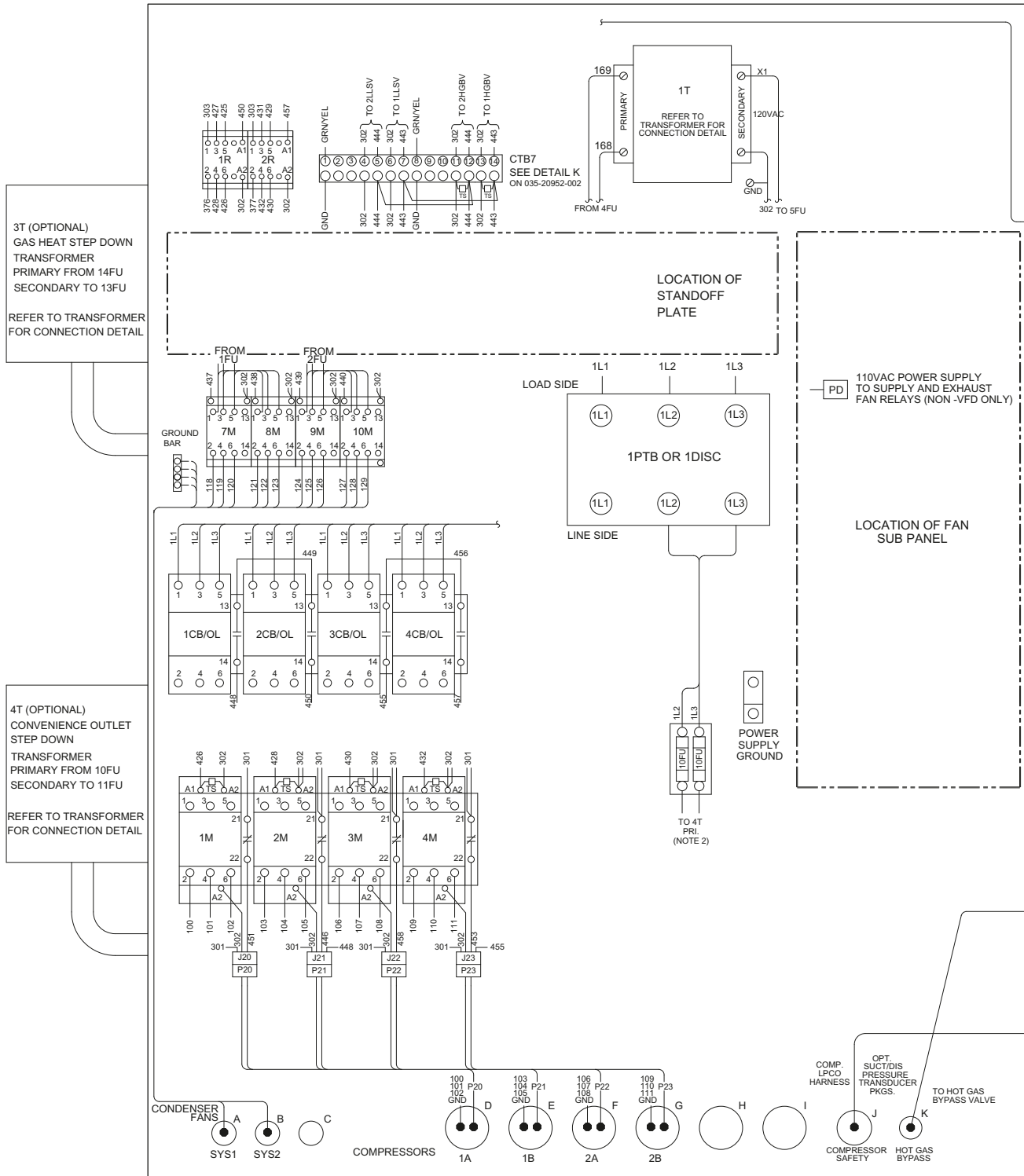


FIG. 23 – YPAL POWER PANEL, 50-65 TON, MOD D, LARGE ENCLOSURE

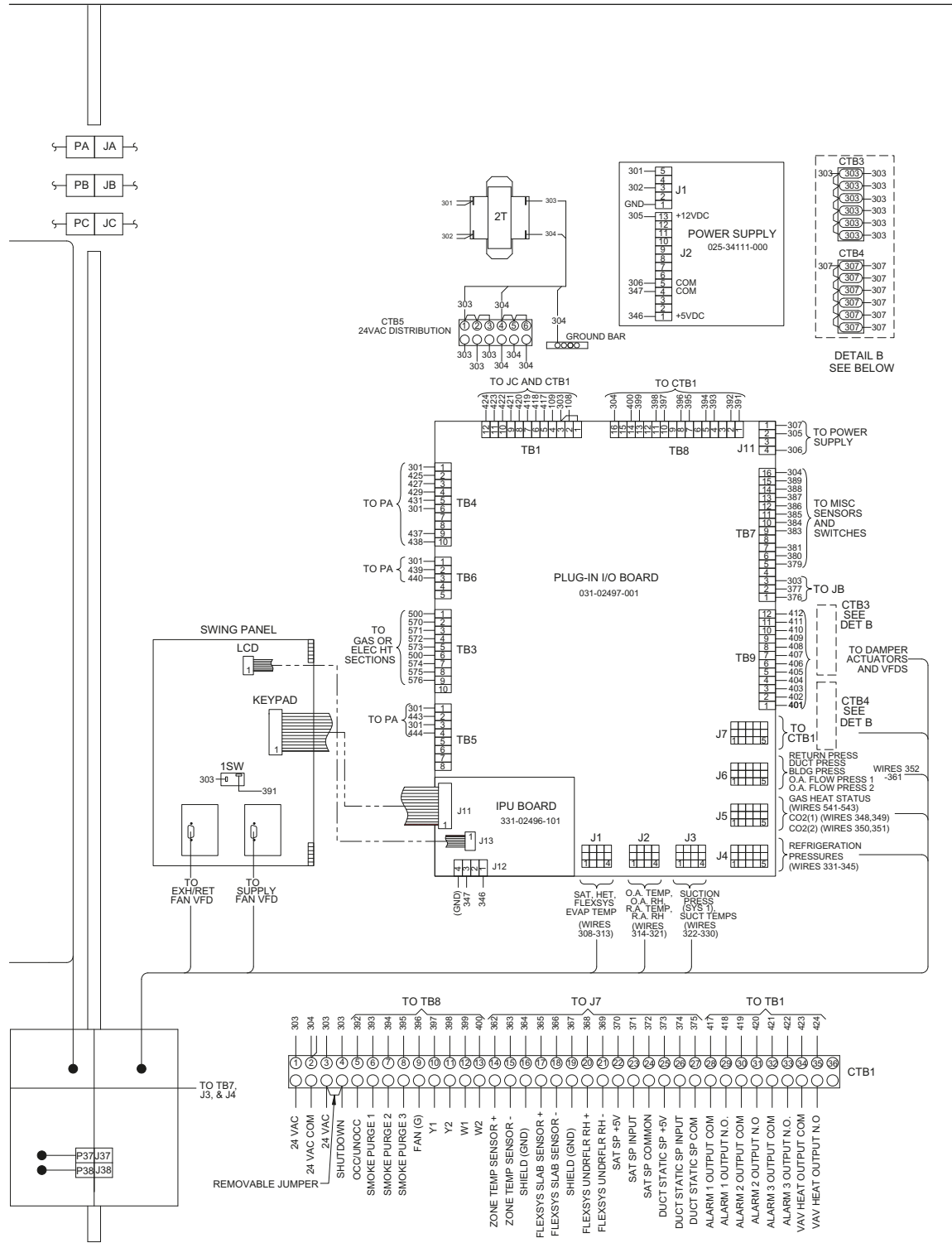
LD11250

PLUG NO.	WIRE NO.	POSITION	WIRE NO.	JACK NO.
PC	108	1	108	JC
	109	2	109	
	COM	3	304	
	SFW	4	SFW	
	SCM	5	SCM	
	EFW	6	EFW	
	ECM	7	ECM	
		8		
		9		

PLUG NO.	WIRE NO.	POSITION	WIRE NO.	PLUG NO.
PD	1	1	301	JD
	2	2	302	

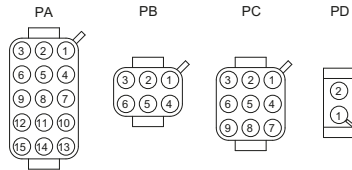
035-13475-203
REV. -

**YPAL COMPONENT MAP
POWER PANEL, 50-65 TON
MOD D**



LD11251

NOTES:
 1. 3T IS ONLY REQUIRED ON 400V-50, 380V-60, 460V, AND 575V UNITS WITH GAS HEAT.
 2. 4T, 10FU, AND 11FU ARE ONLY REQUIRED FOR OPTIONAL CONVENIENCE OUTLET.



NOTE, VIEWED FROM WIRING END.

PLUG NO.	WIRE NO.	POSITION	WIRE NO.	POSITION
PA & JA	425	1	439	9
	427	2	440	10
	429	3	441	11
	431	4	442	12
	433	5	443	13
	435	6	444	14
	437	7	445	15
	438	8		
PB & JB	301	1		
	302	2		
	303	3		
	376	4		
	377	5		
	378	6		

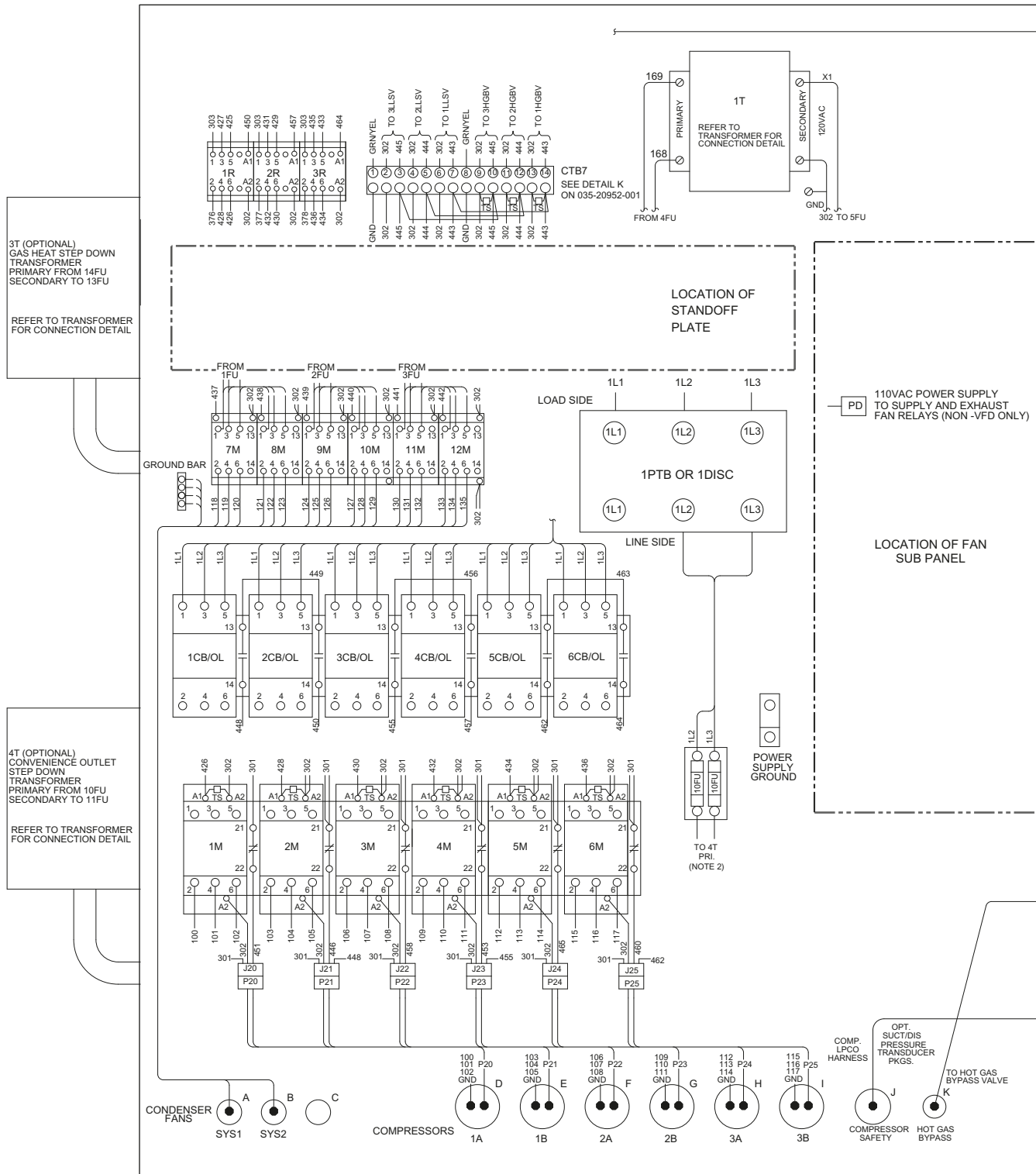


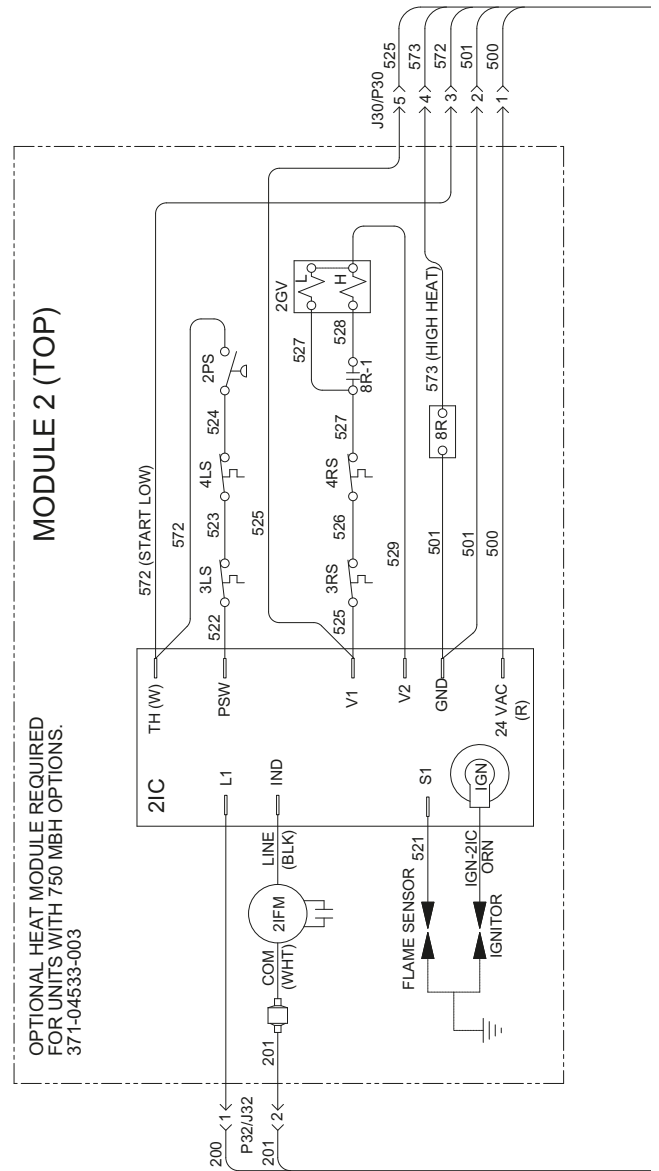
FIG. 24 – YPAL POWER PANEL, 70-105 TON, MOD D, LARGE ENCLOSURE

LD11253

ELEMENTARY DIAGRAM
 YPAL GAS HEAT CONTROLS
 50-65 TON

035-20950-001
 REV. -

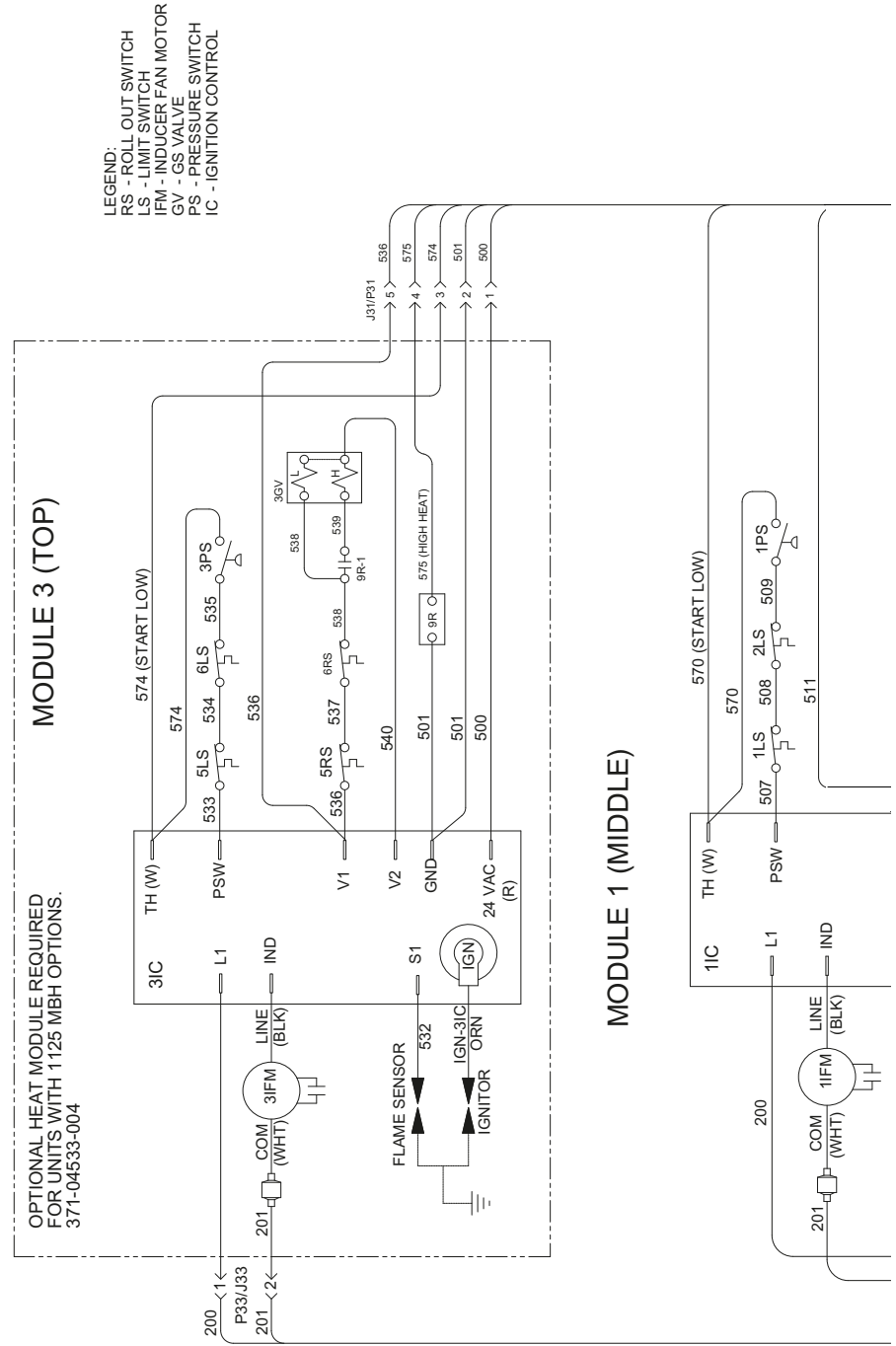
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LD11320

**ELEMENTARY DIAGRAM
YPAL GAS HEAT CONTROLS
70-130 TON**

035-20950-002
REV. B



LD11323

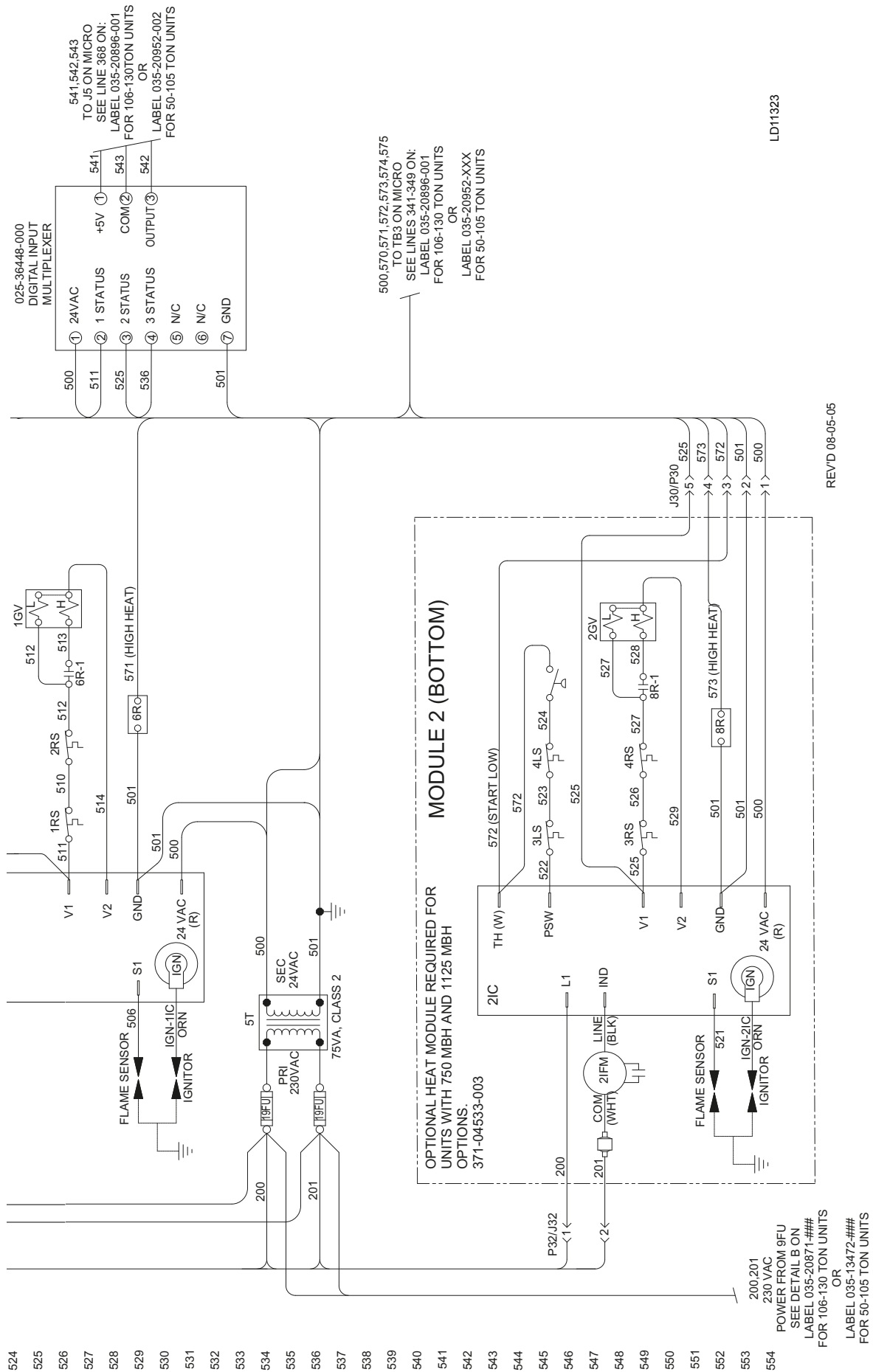


FIG. 26 – YPAL GAS HEAT CONTROLS, 70-130 TON, STAGED HEAT

LEGEND

- IFM INDUCER FAN MOTOR
- GV GAS VALVE
- PS PRESSURE SWITCH
- LS LIMIT SWITCH
- RS ROLL OUT SWITCH
- IC IGNITION CONTROL

NOTES:

1. BURNER MOUNTED LIMIT SWITCH SETTING (LS1, AND LS3) IS 140°F.
2. PLENUM MOUNTED LIMIT SWITCH SETTING (LS2 AND LS4) IS 155°F.

OPTIONAL GAS HEAT MODULE AND
BURNER, REQUIRED ON UNITS
WITH 750MBH FURNACE OPTIONS.

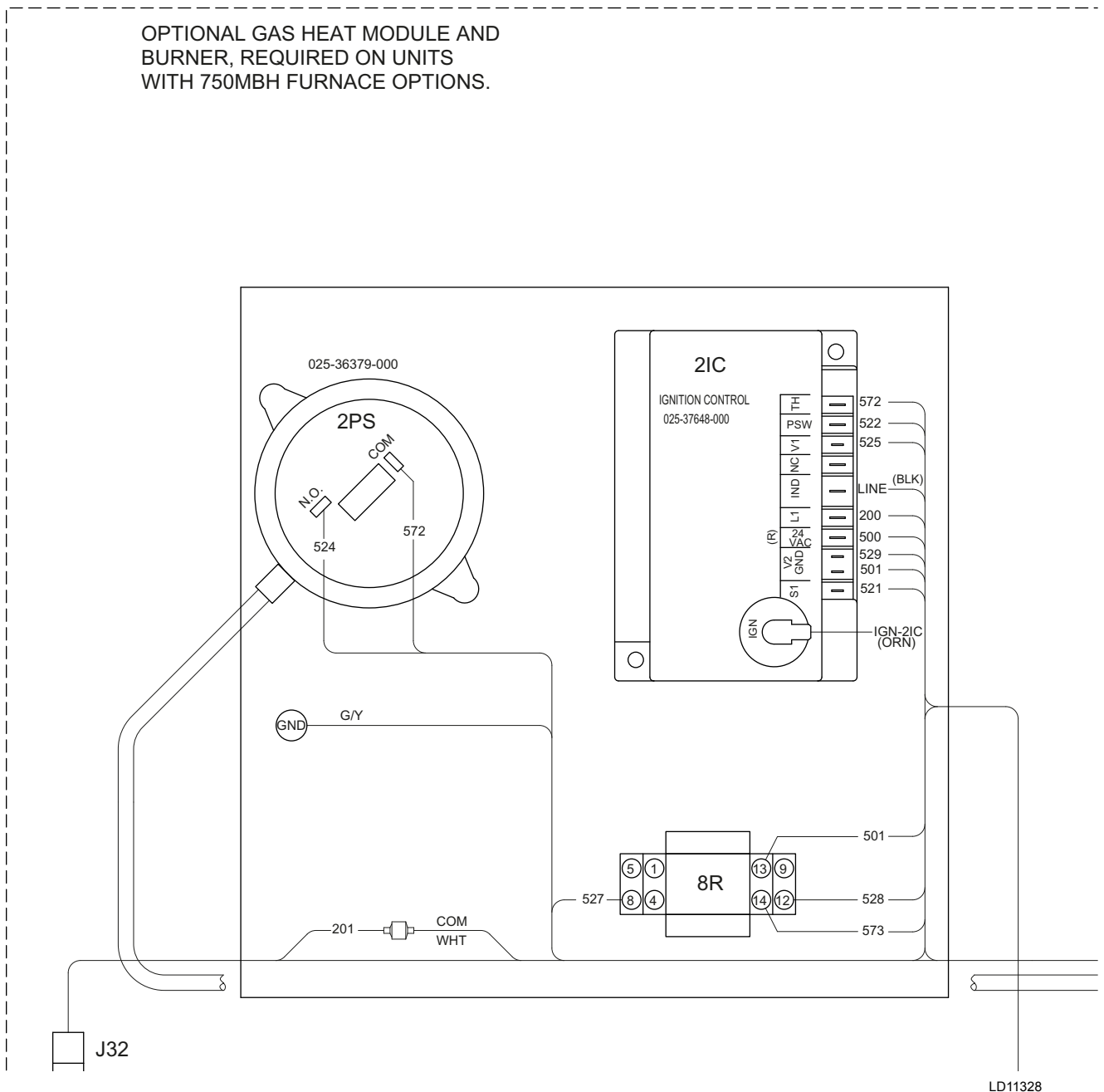
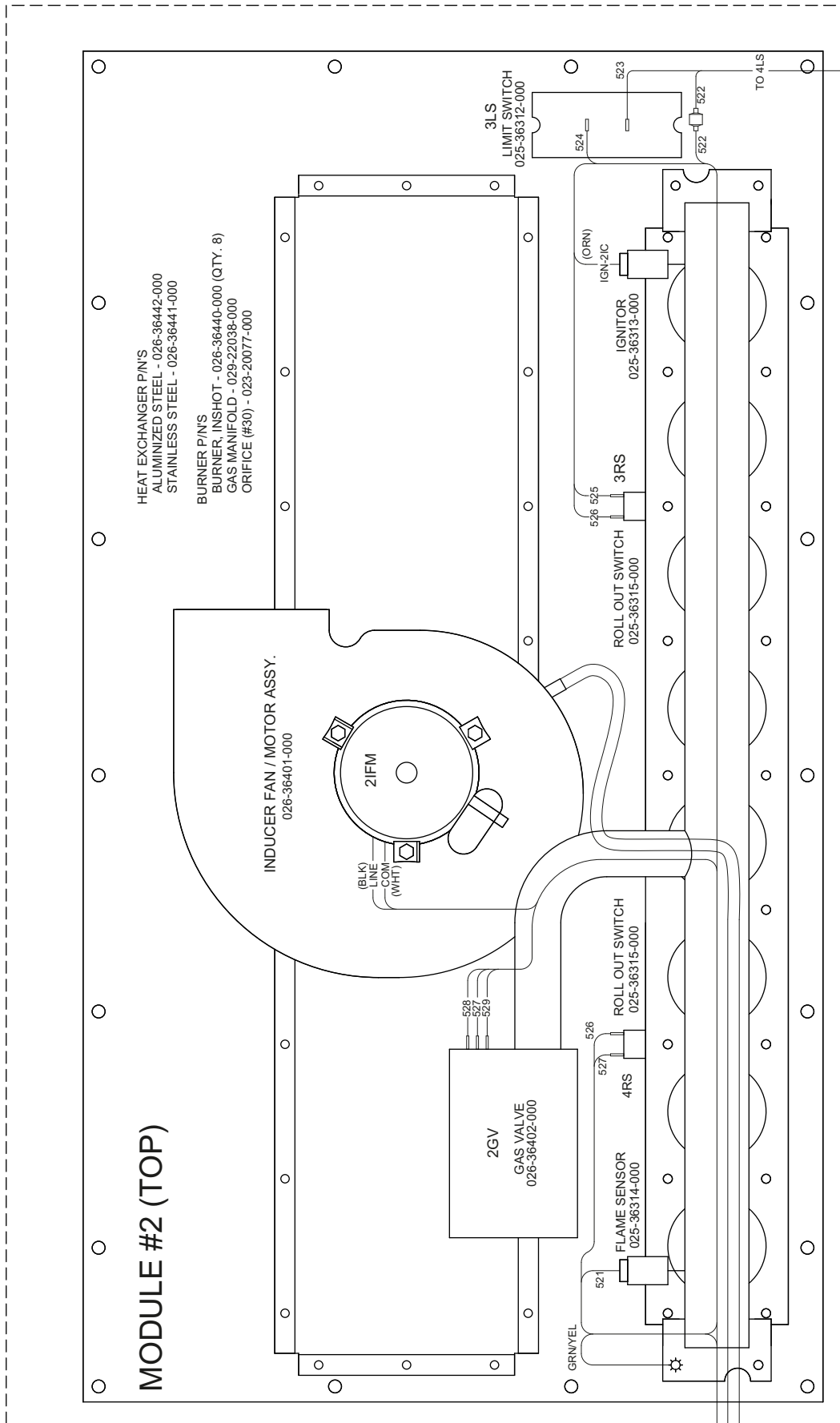


FIG. 27 – YPAL, 50-65 TON, STAGED GAS HEAT (ENLARGED VIEW #1)



LD11329

FIG. 27 - YPAL, 50-65 TON, STAGED GAS HEAT (ENLARGED VIEW #2)

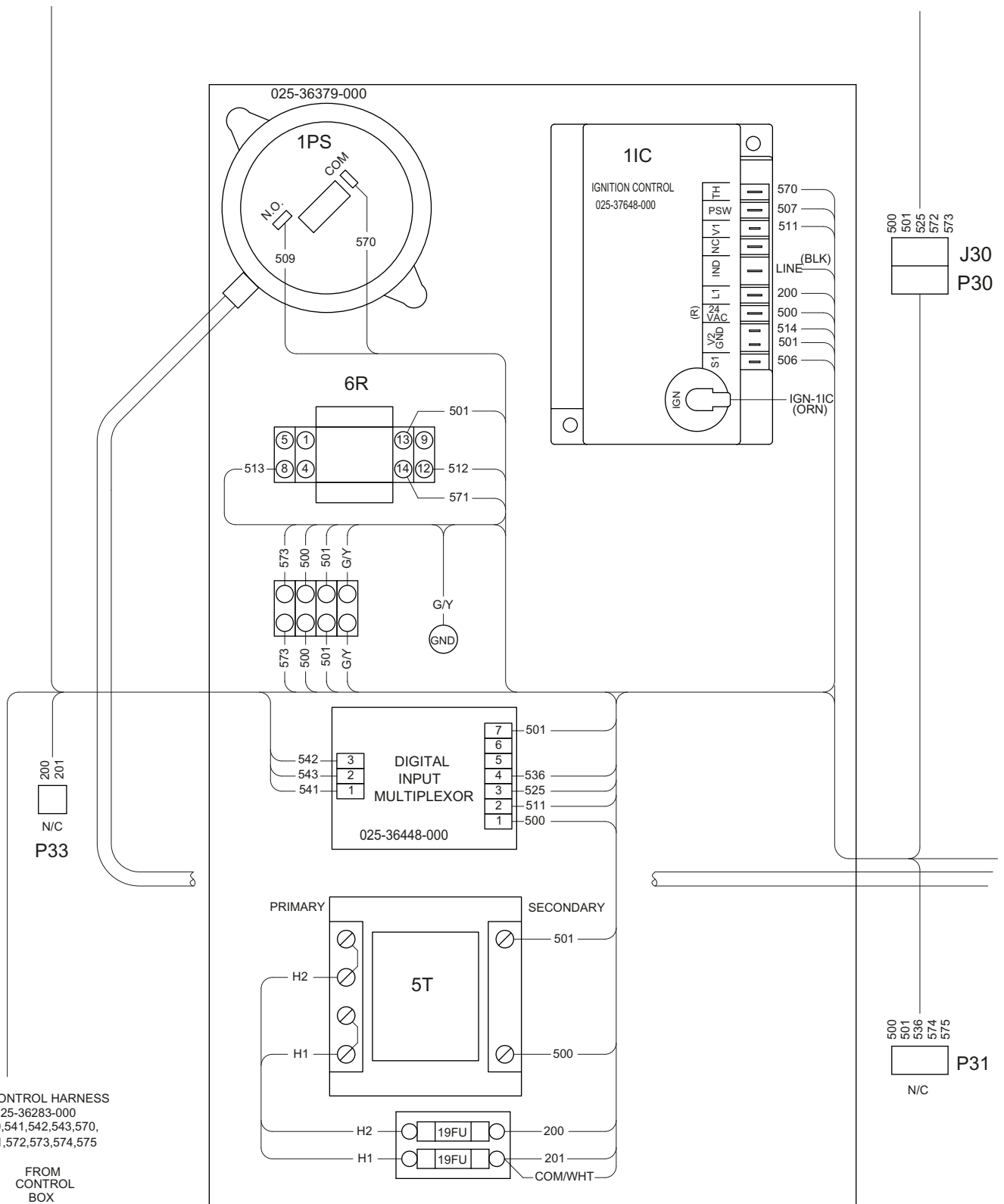


FIG. 27 – YPAL, 50-65 TON, STAGED GAS HEAT (ENLARGED VIEW #3)

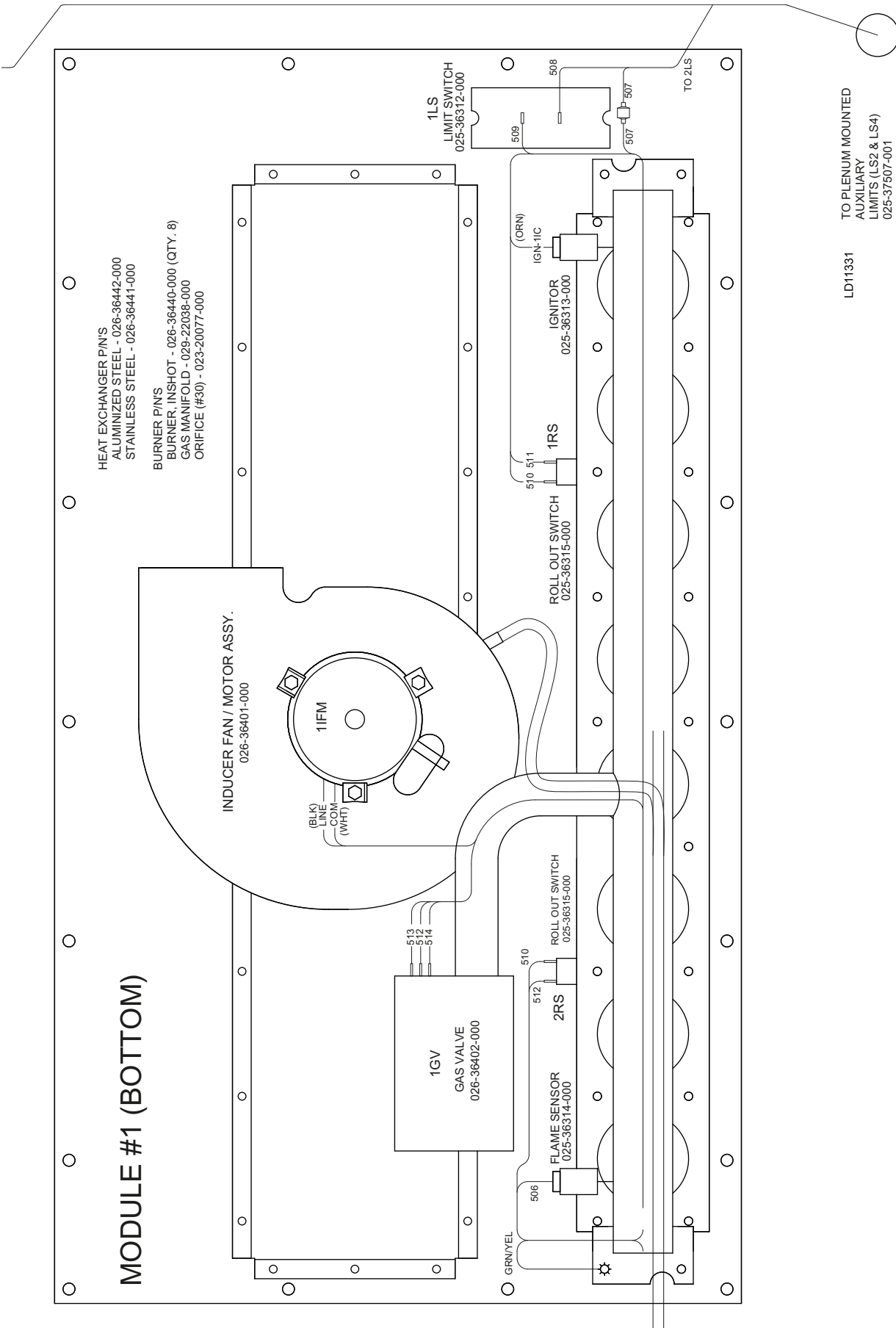


FIG. 27 – YPAL, 50-65 TON, STAGED GAS HEAT (ENLARGED VIEW #4)

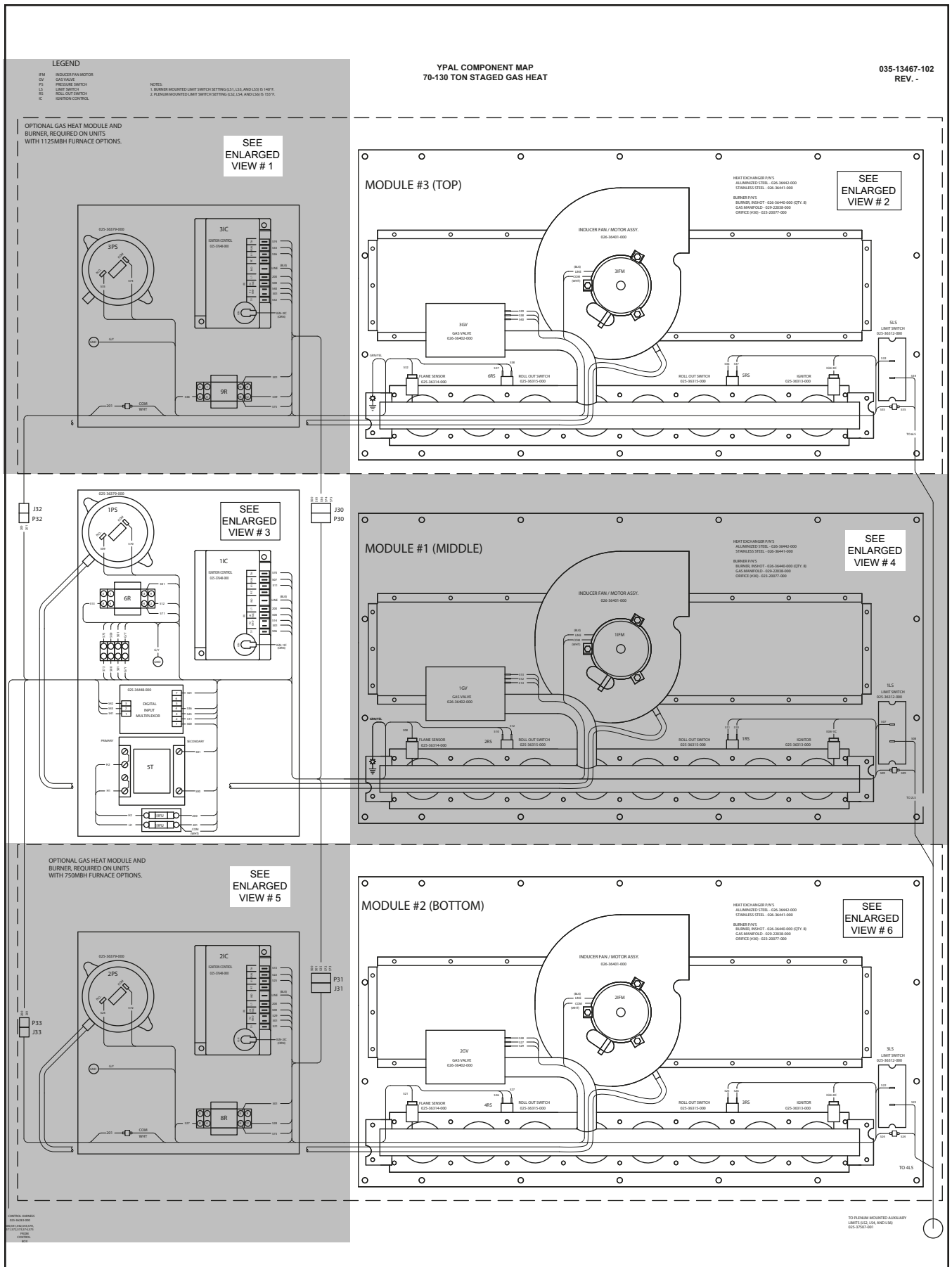
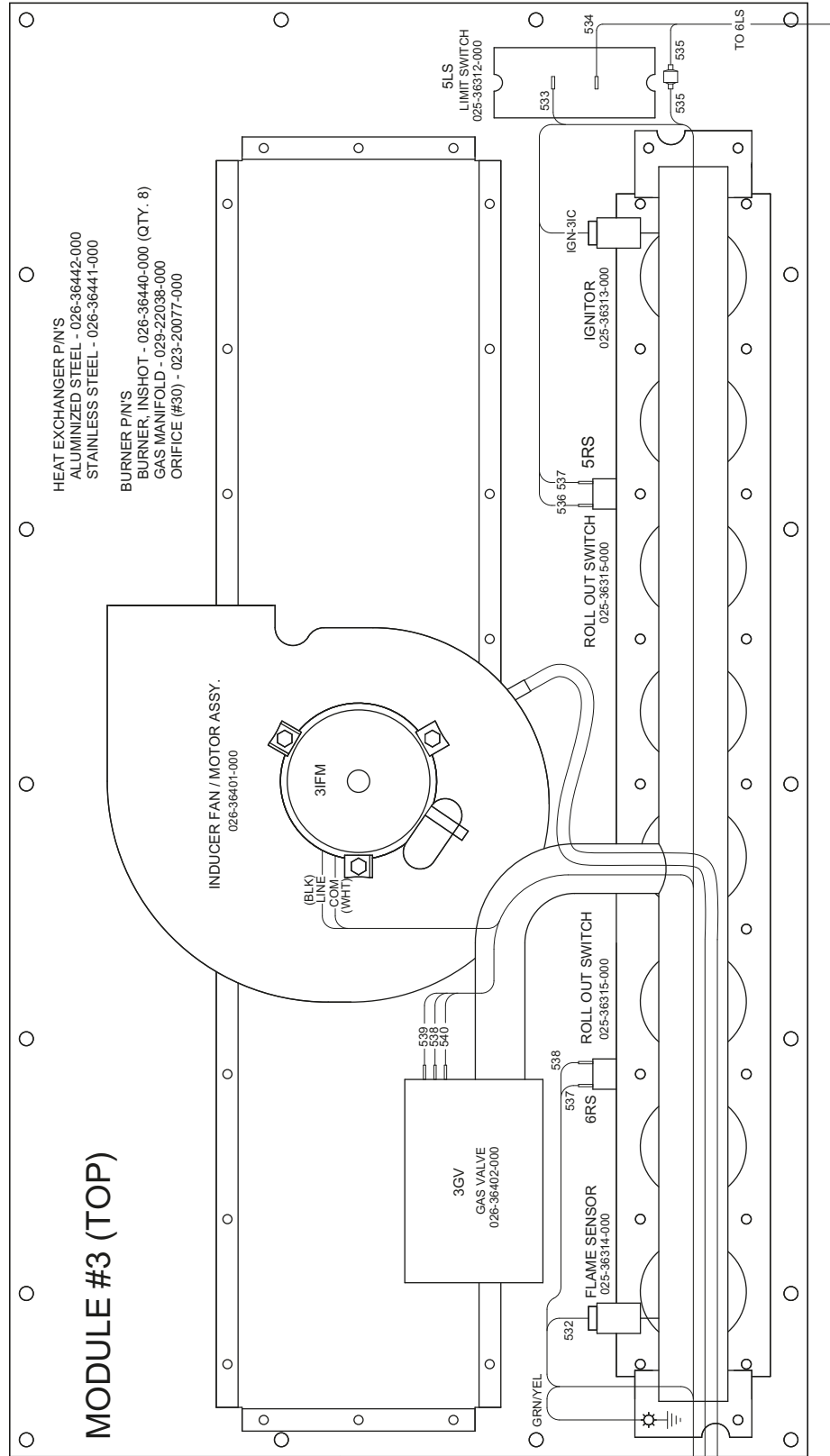


FIG. 28 – YPAL, 70-130 TON, STAGED GAS HEAT

LD11332

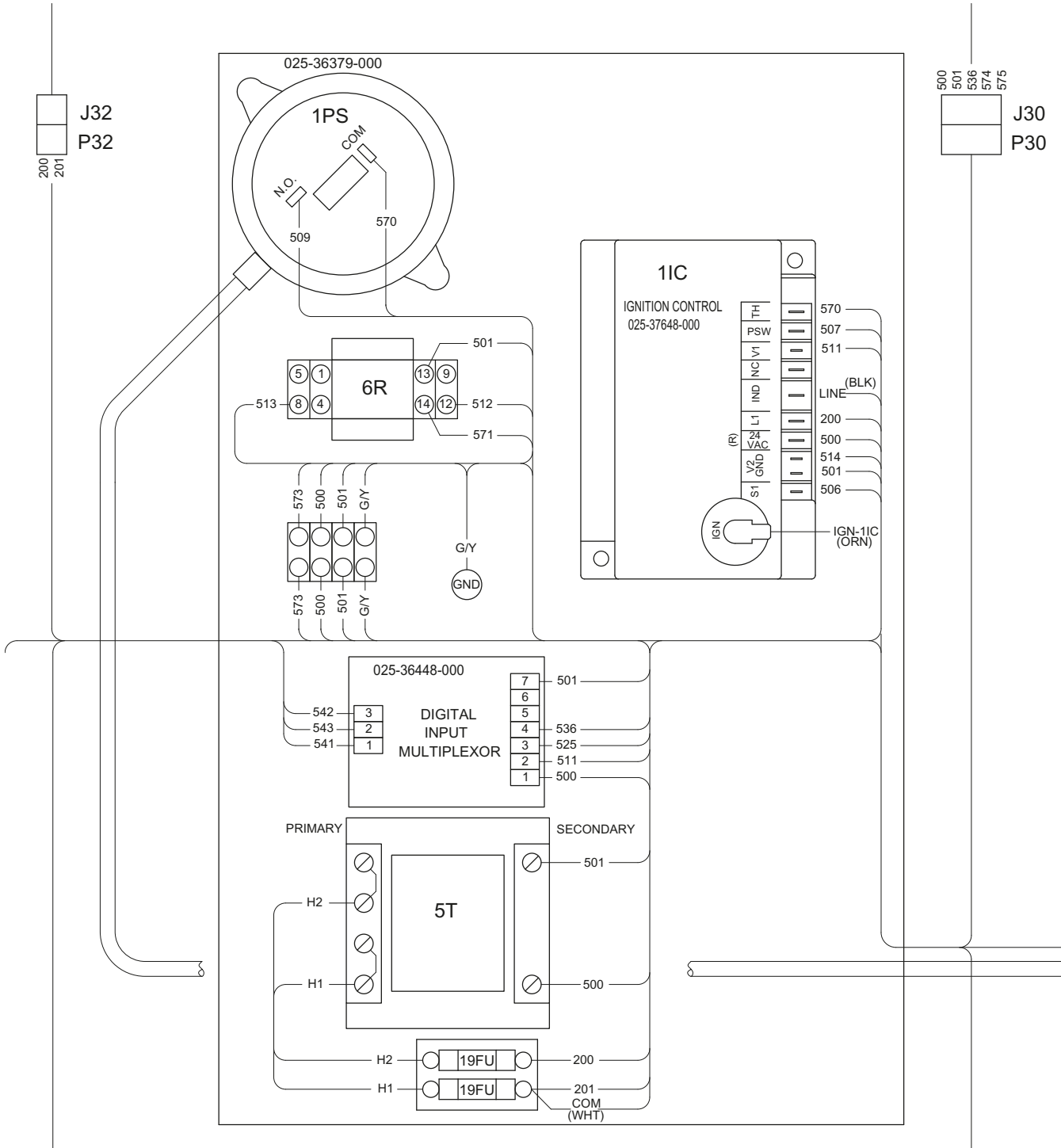
035-13467-102
REV. -

YPAL COMPONENT MAP
70-130 TON STAGED GAS HEAT



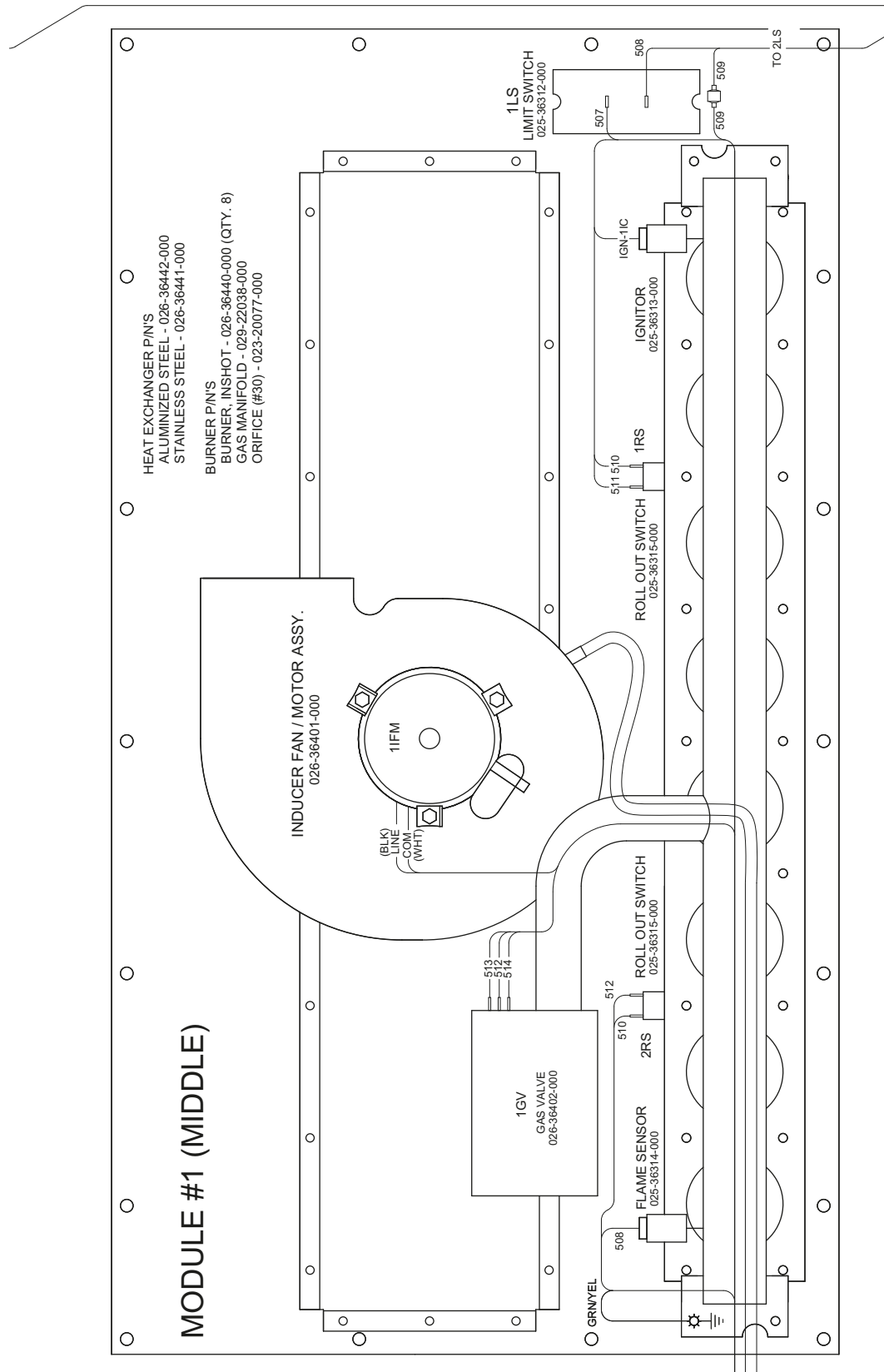
LD11334

FIG. 28 - YPAL, 70-130 TON, STAGED GAS HEAT (ENLARGED VIEW #2)



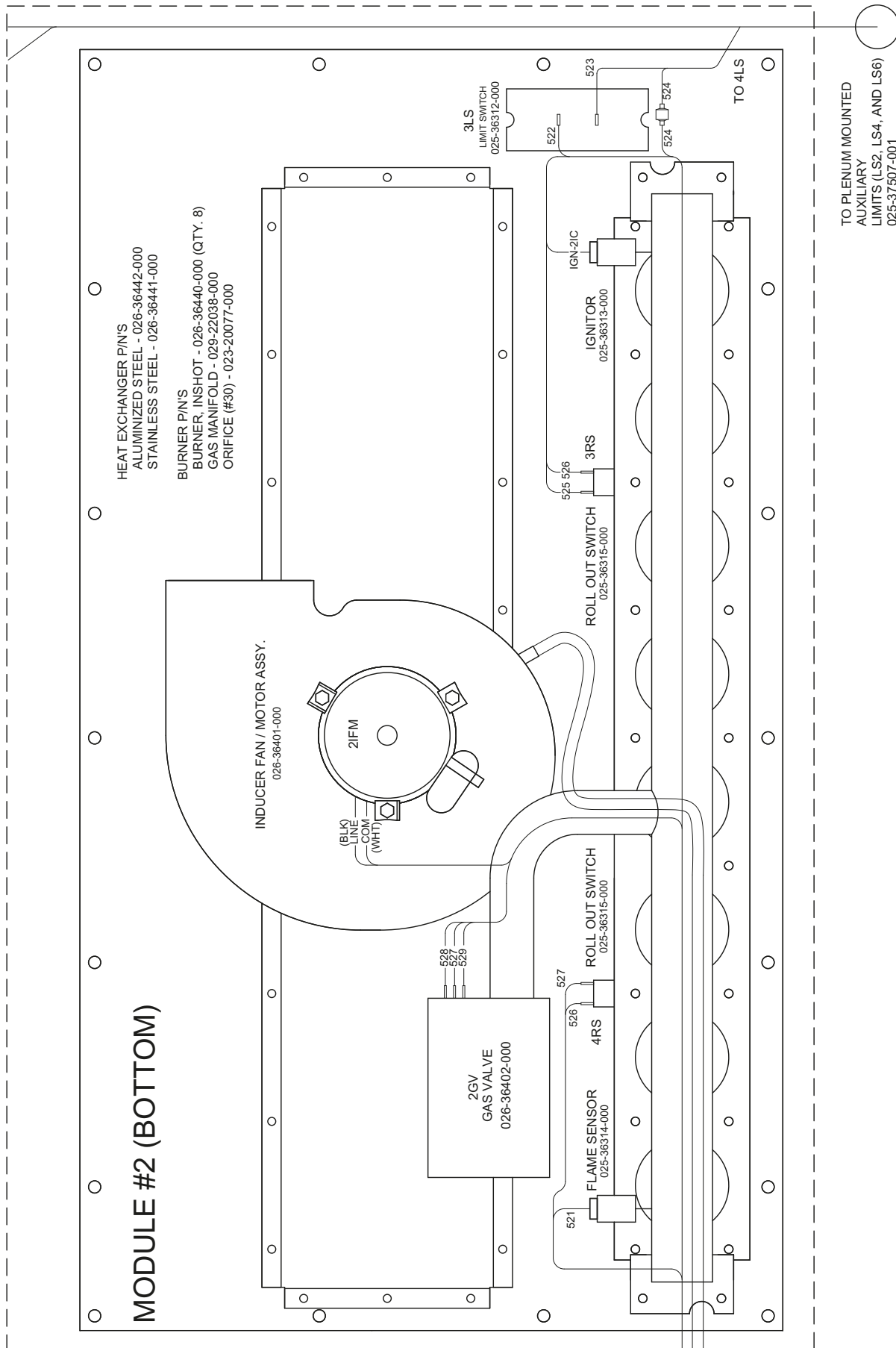
LD11335

FIG. 28 – YPAL, 70-130 TON, STAGED GAS HEAT (ENLARGED VIEW #3)



LD11336

FIG. 28 – YPAL, 70-130 TON, STAGED GAS HEAT (ENLARGED VIEW #4)

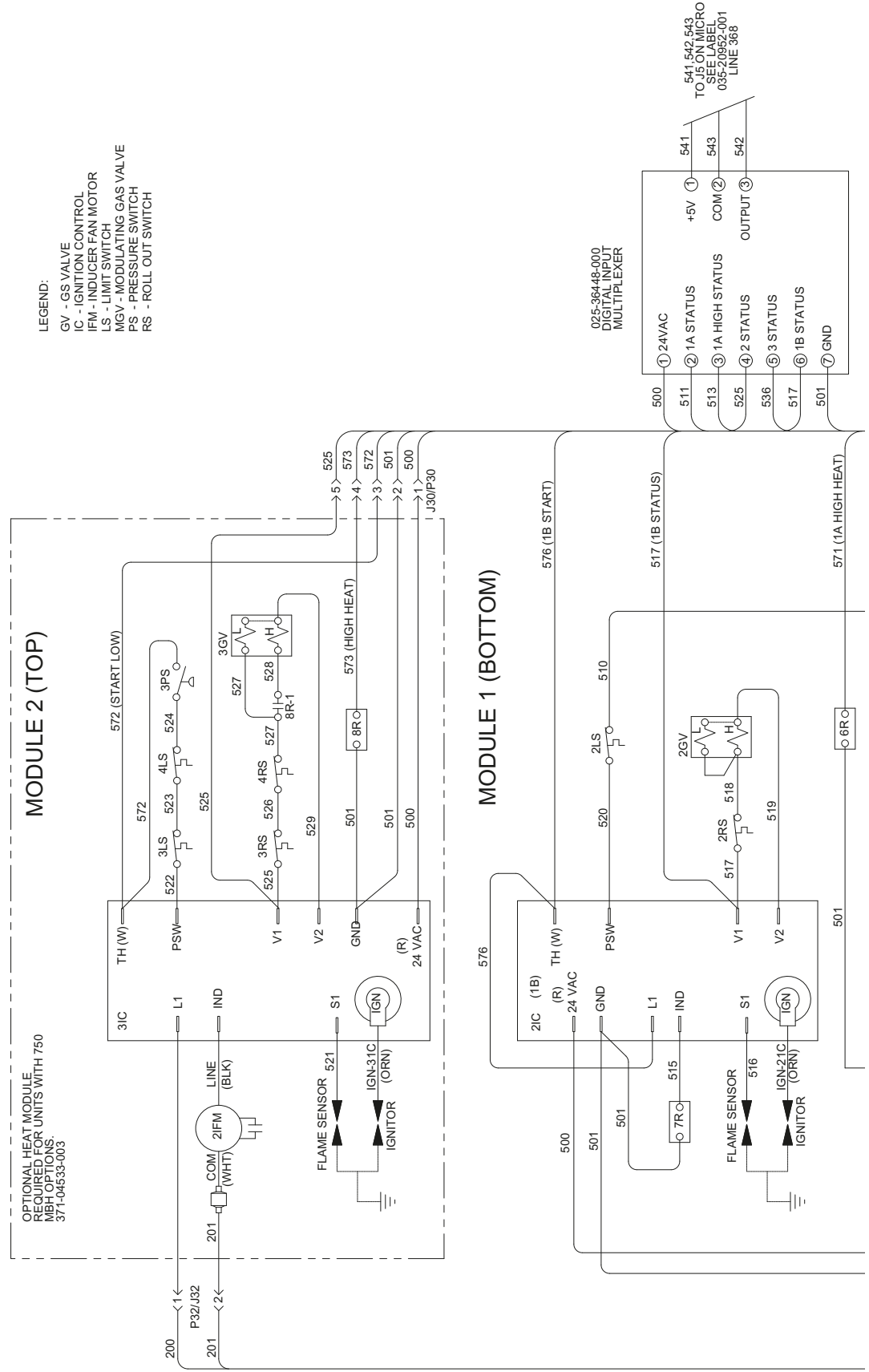


LD11338

FIG. 28 – YPAL, 70-130 TON, STAGED GAS HEAT (ENLARGED VIEW #6)

ELEMENTARY DIAGRAM
YPAL MODULATING GAS
HEAT CONTROLS
50-65 TON

035-20945-001
REV. -

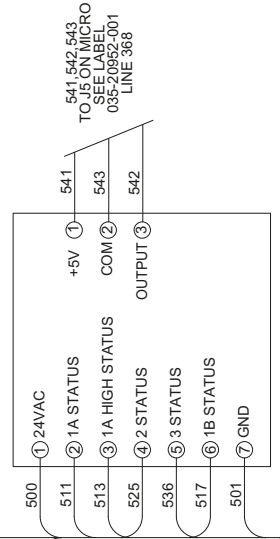


LEGEND:

- GV - GS VALVE
- IC - IGNITION CONTROL
- IFM - INDUCER FAN MOTOR
- LS - LIMIT SWITCH
- MGV - MODULATING GAS VALVE
- PS - PRESSURE SWITCH
- RS - ROLL OUT SWITCH

OPTIONAL HEAT MODULE
REQUIRED FOR UNITS WITH 750
MBH OPTIONS.
371-04533-003

095-36448-000
DIGITAL INPUT
MULTIPLEXER

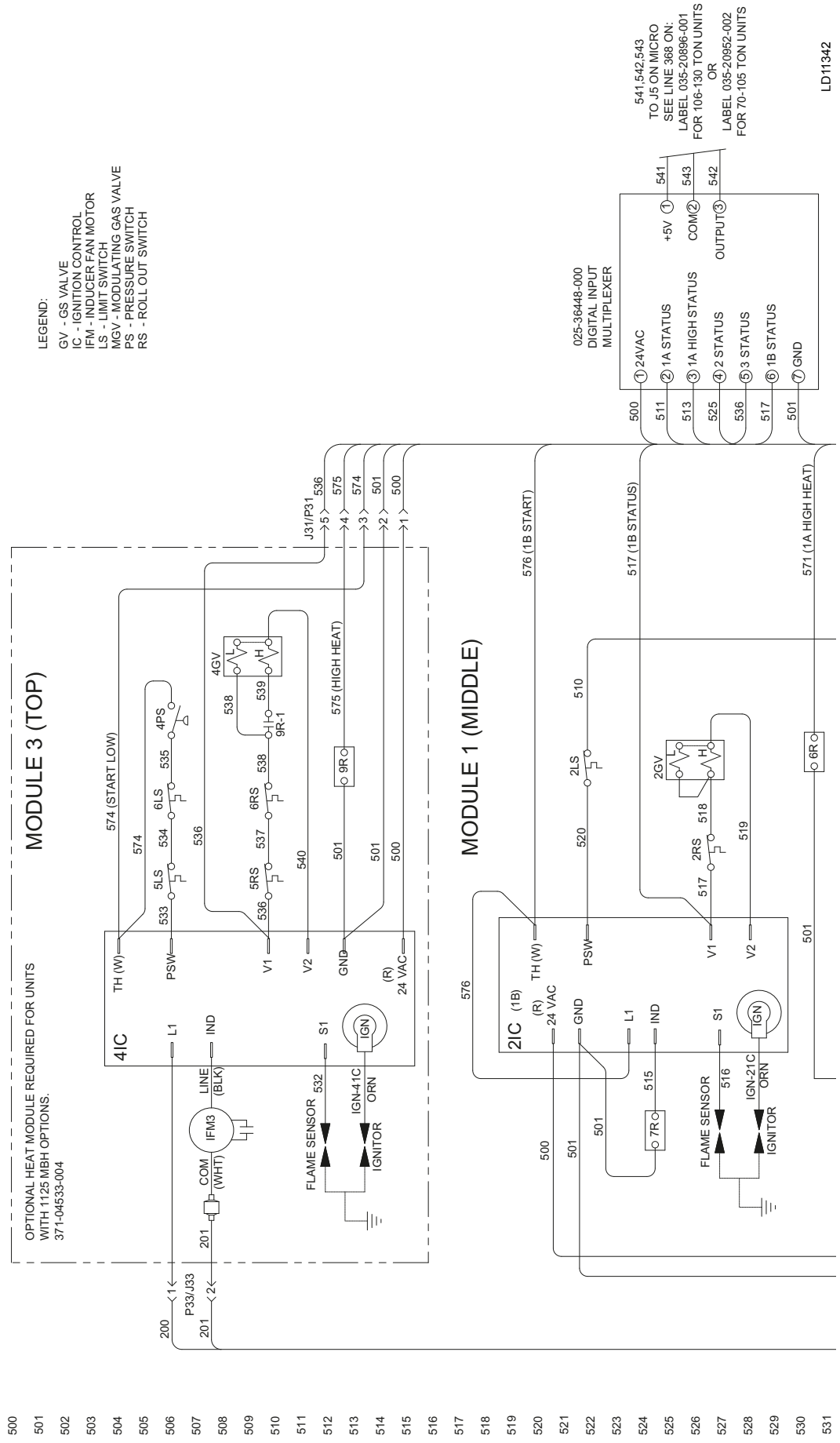


541,542,543
TO 50N MICRO
SERIES LOGIC
035-50962-001
LINE 368

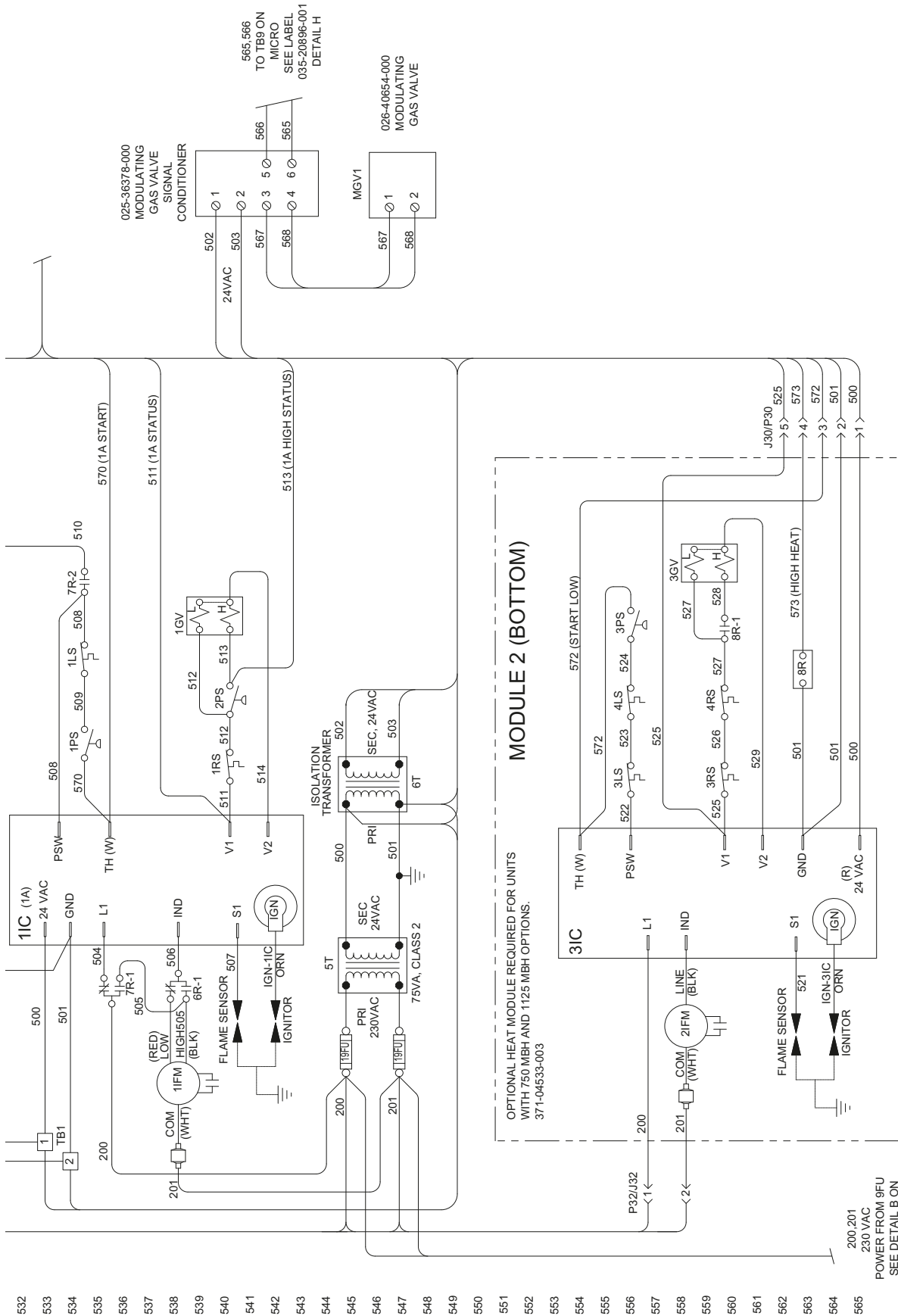
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035-20945-002
REV. B

ELEMENTARY DIAGRAM
YPAL MODULATING GAS
HEAT CONTROLS
70-130 TON



LD11342



REV'D 08-05-05

FIG. 30 - YPAL, MODULATING GAS HEAT CONTROLS, 70-130 TON

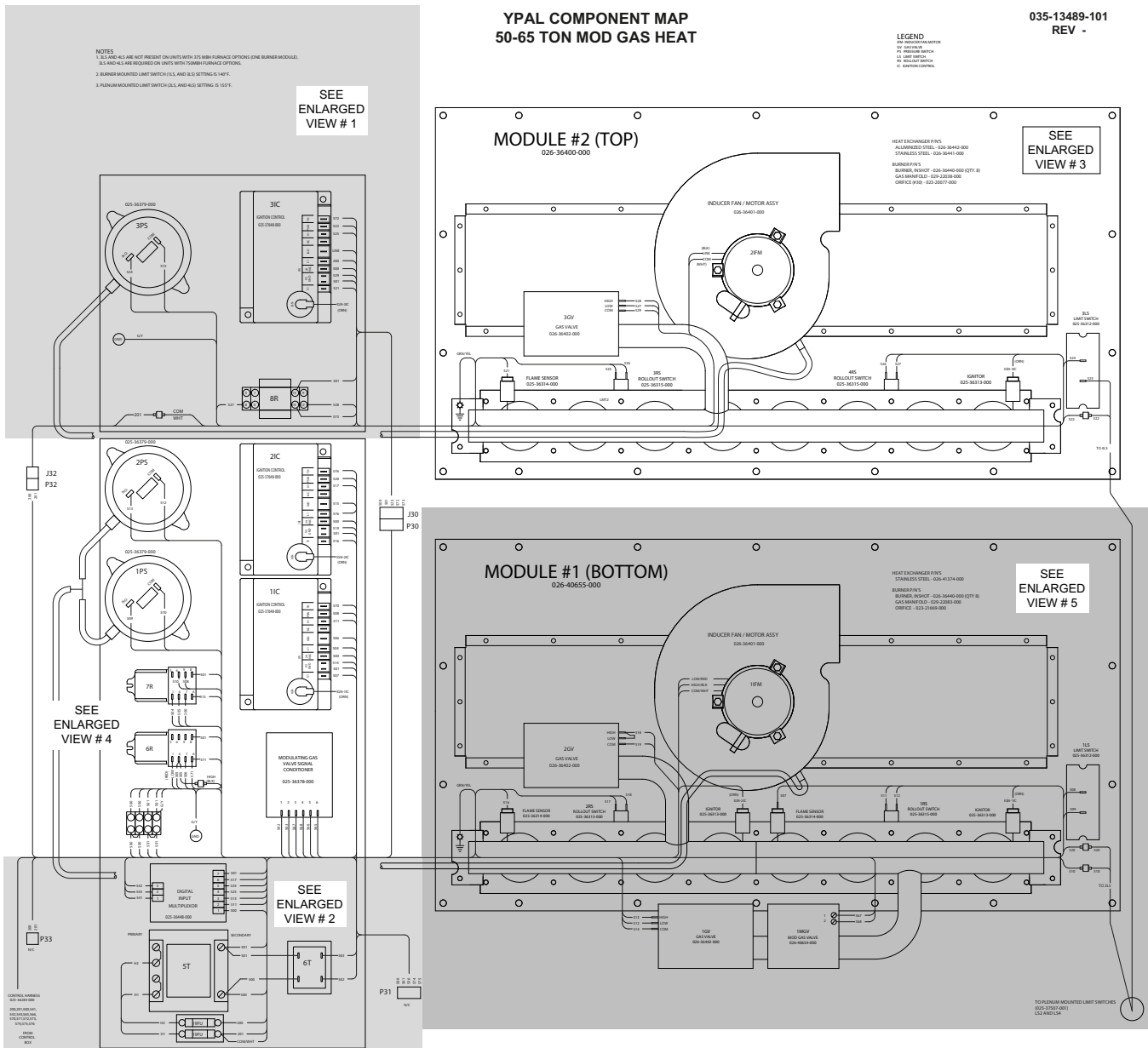
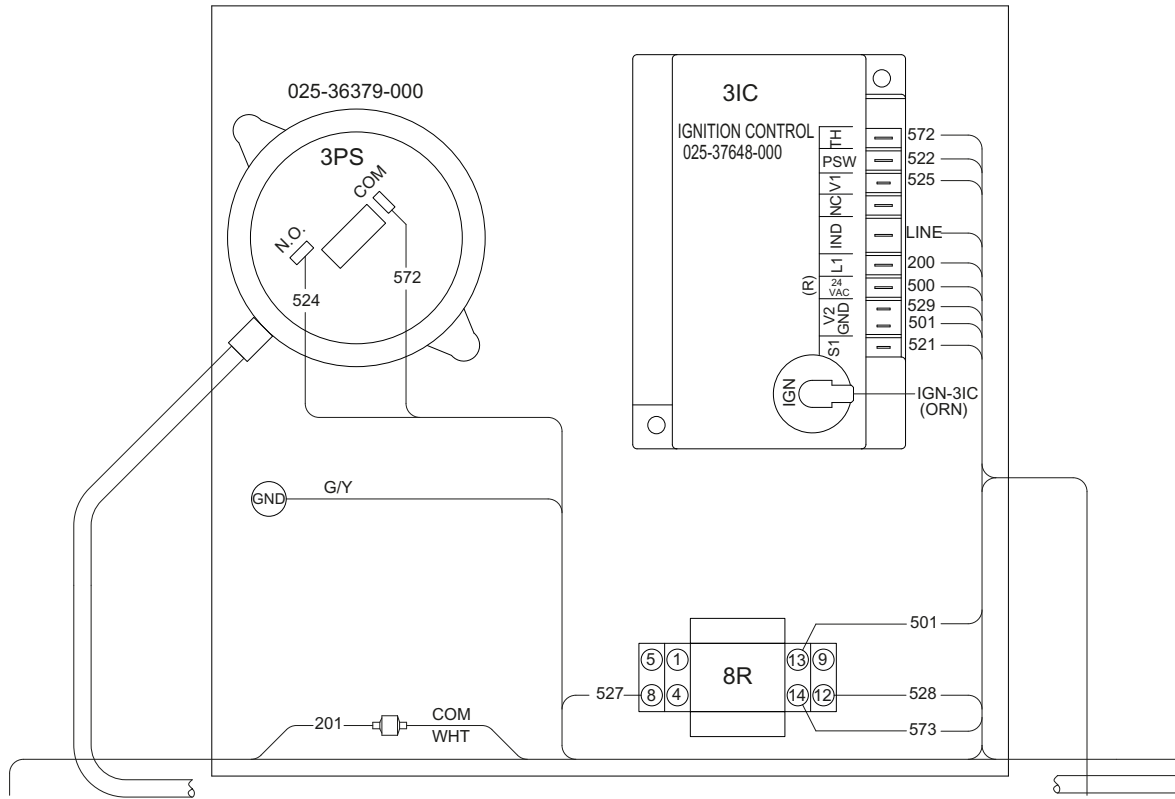


FIG. 31 – YPAL, 50-65 TON, MOD D, GAS HEAT

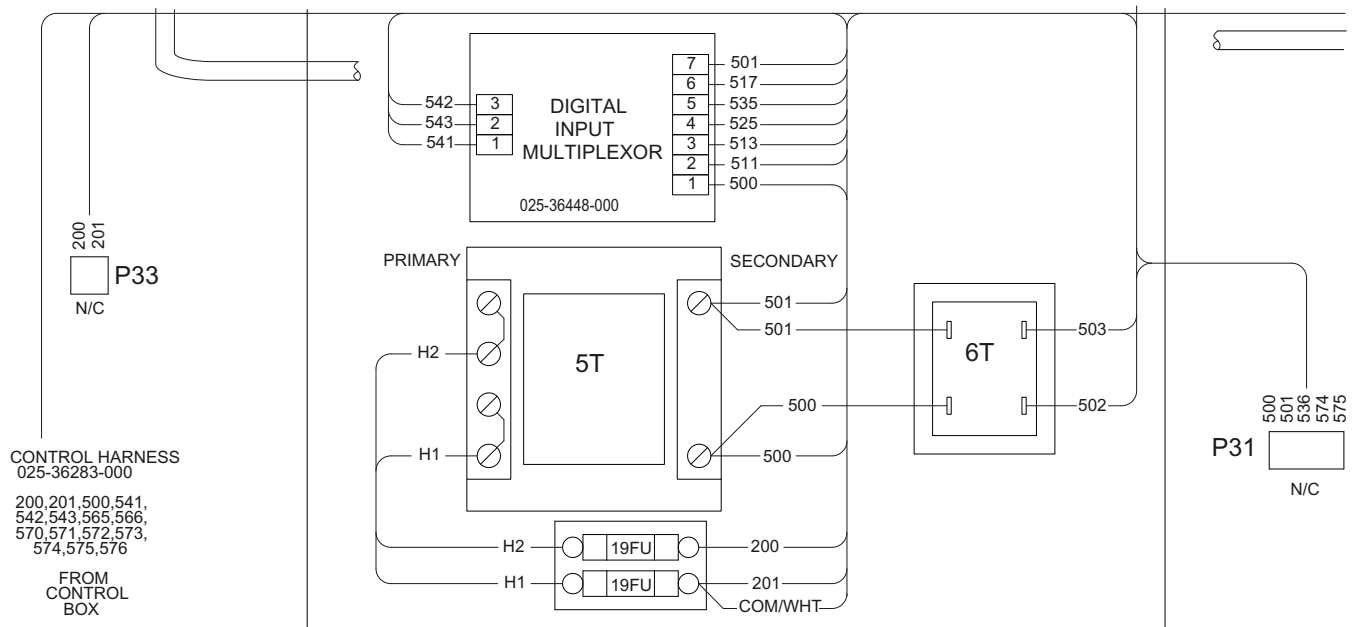
NOTES

1. 3LS AND 4LS ARE NOT PRESENT ON UNITS WITH 375 MBH FURNACE OPTIONS (ONE BURNER MODULE).
3LS AND 4LS ARE REQUIRED ON UNITS WITH 750MBH FURNACE OPTIONS.
2. BURNER MOUNTED LIMIT SWITCH (1LS, AND 3LS) SETTING IS 140°F.
3. PLENUM MOUNTED LIMIT SWITCH (2LS, AND 4LS) SETTING IS 155°F.



LD11346

FIG. 31 – YPAL, 50-65 TON, MOD D, GAS HEAT (ENLARGED VIEW #1)



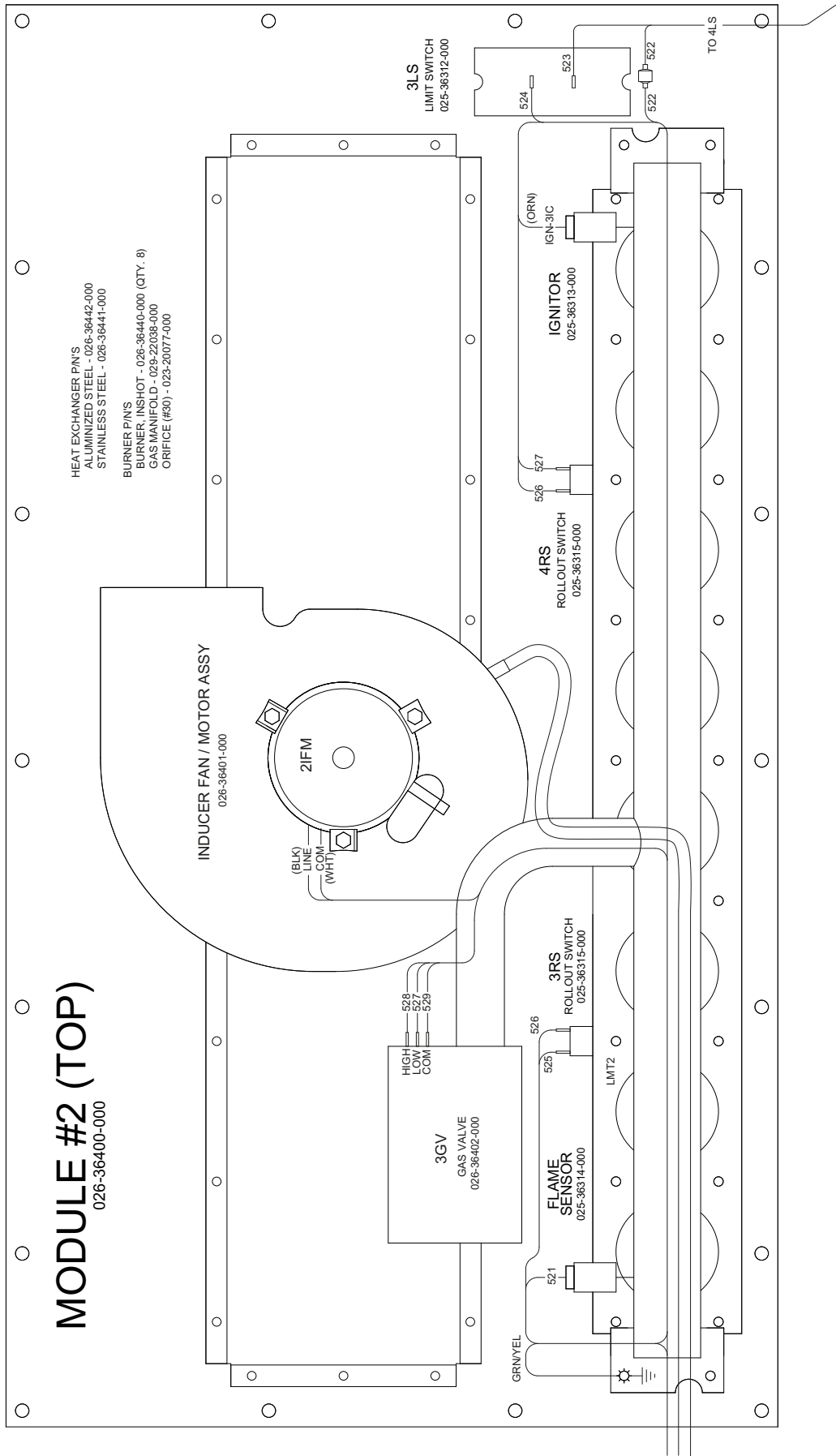
LD11350

FIG. 31 – YPAL, 50-65 TON, MOD D, GAS HEAT (ENLARGED VIEW #2)

YPAL COMPONENT MAP
50-65 TON MOD GAS HEAT

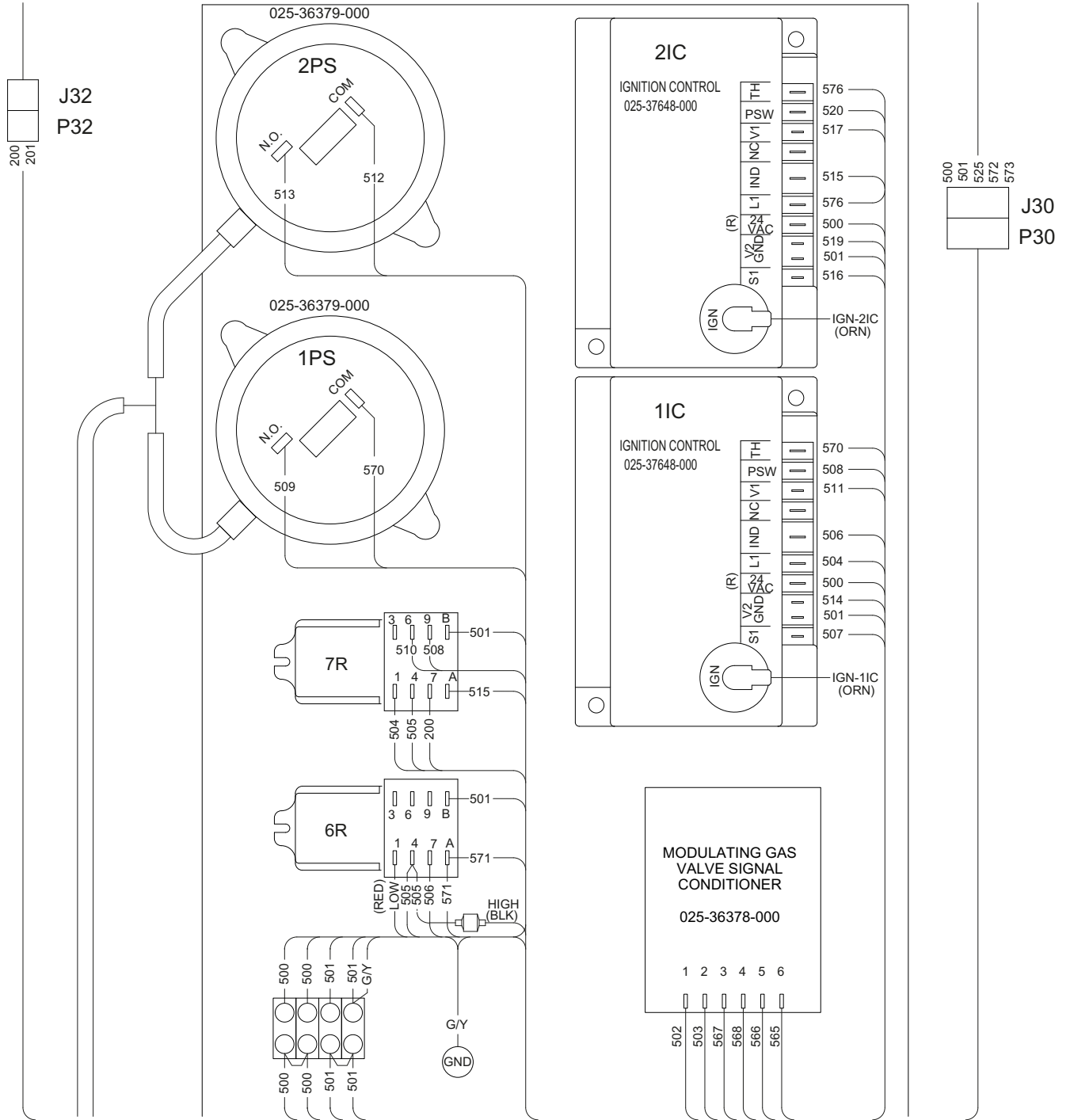
035-13489-101
REV -

- LEGEND**
 FM INDUCER FAN
 MOTOR
 GV GAS VALVE
 PS PRESSURE SWITCH
 LS LIMIT SWITCH
 RS ROLLOUT SWITCH
 IC IGNITION CONTROL



LD11347

FIG. 31 – YPAL, 50-65 TON, MOD D, GAS HEAT (ENLARGED VIEW #3)



LD11348

FIG. 31 – YPAL, 50-65 TON, MOD D, GAS HEAT (ENLARGED VIEW #4)

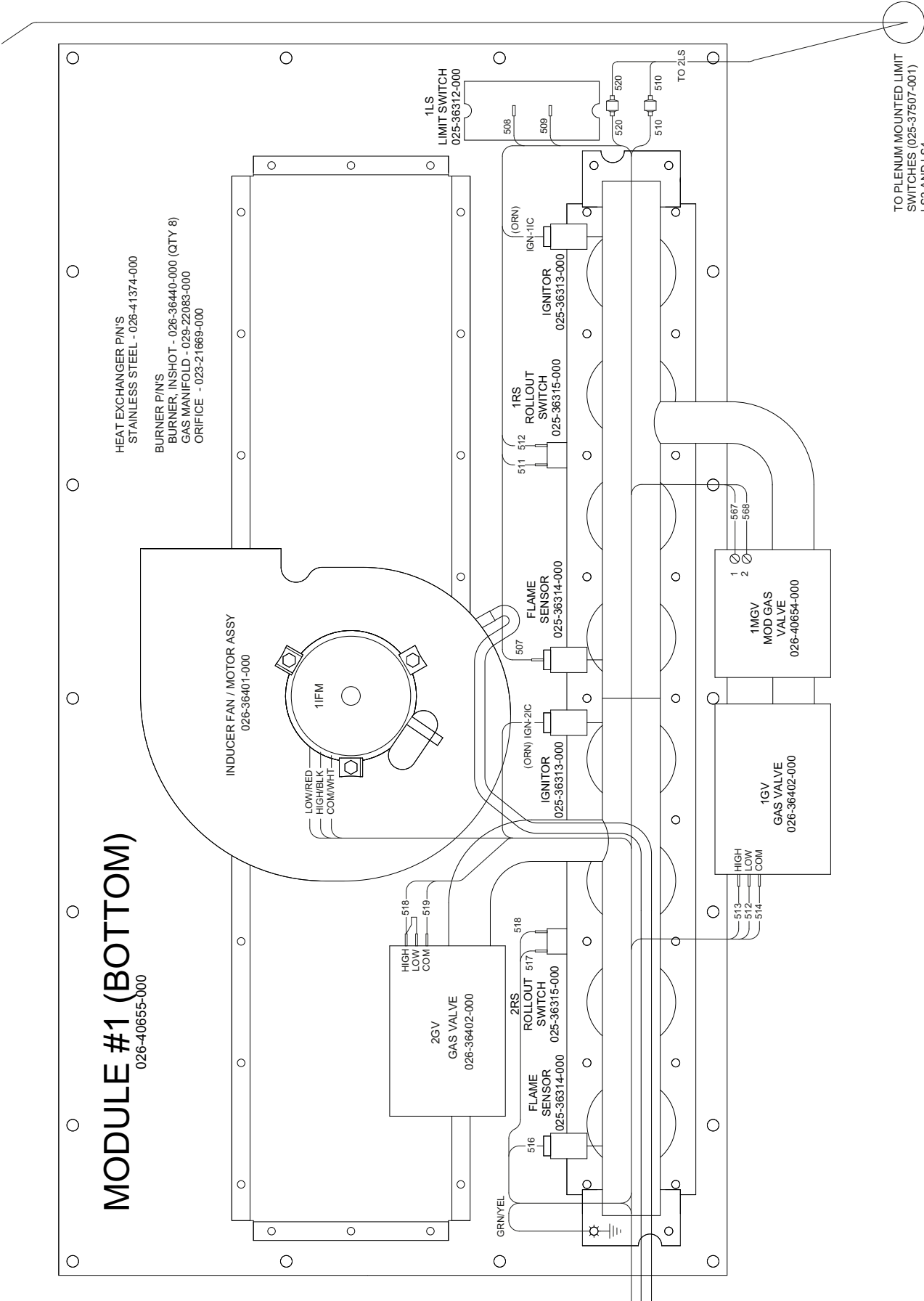


FIG. 31 – YPAL, 50-65 TON, MOD D, GAS HEAT (ENLARGED VIEW #5)

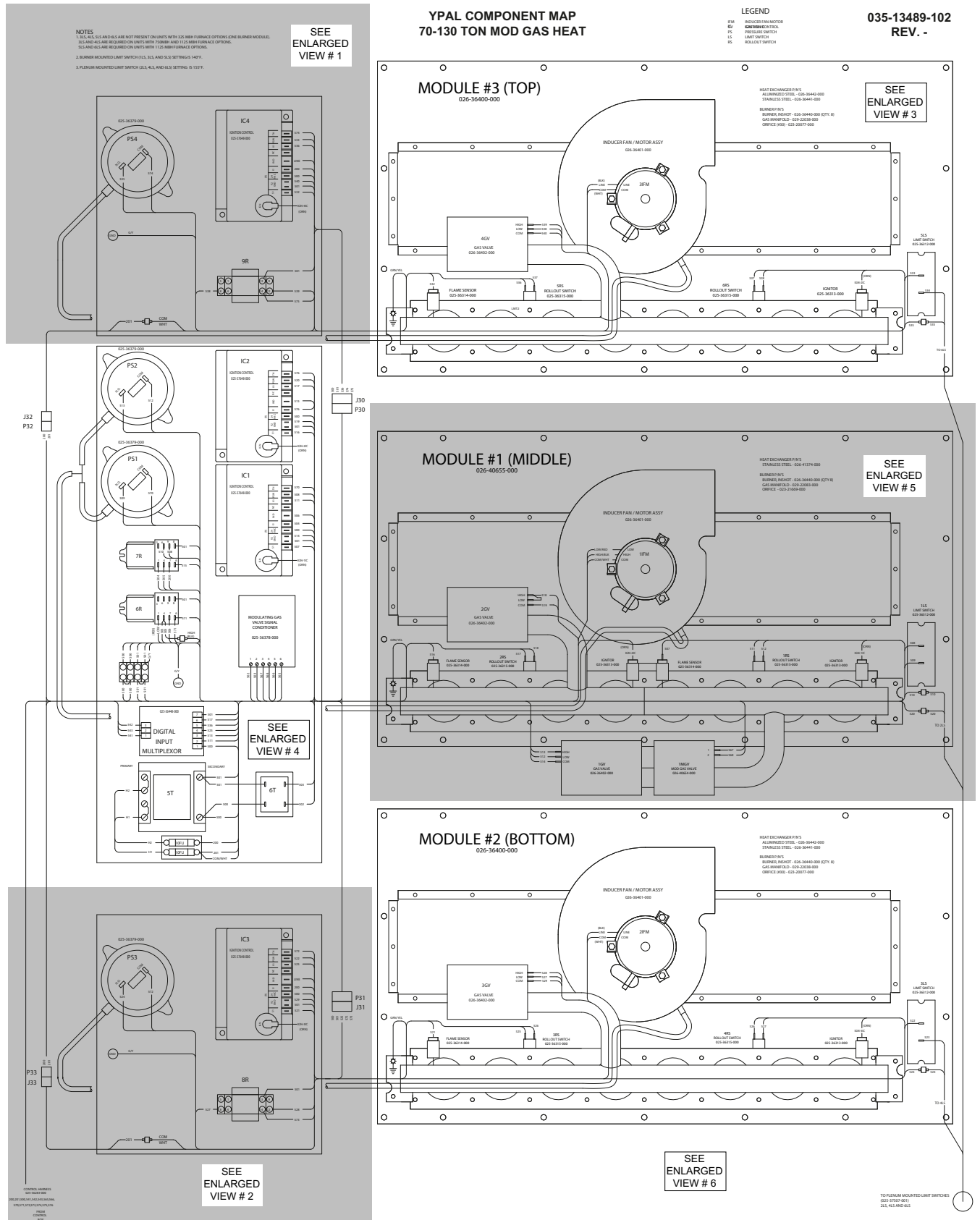
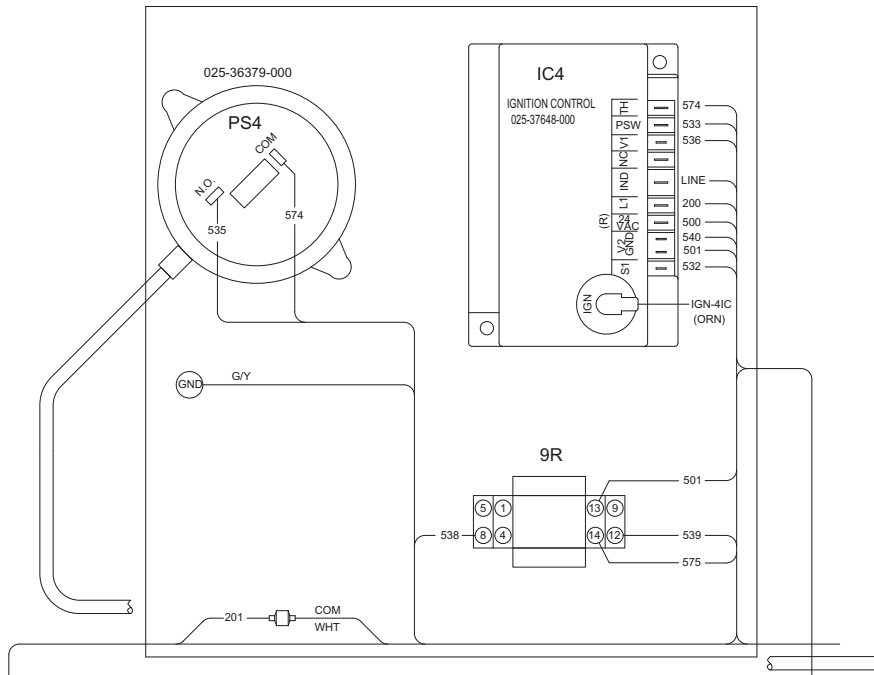


FIG. 32 – YPAL, 70-130 TON, MOD D, GAS HEAT

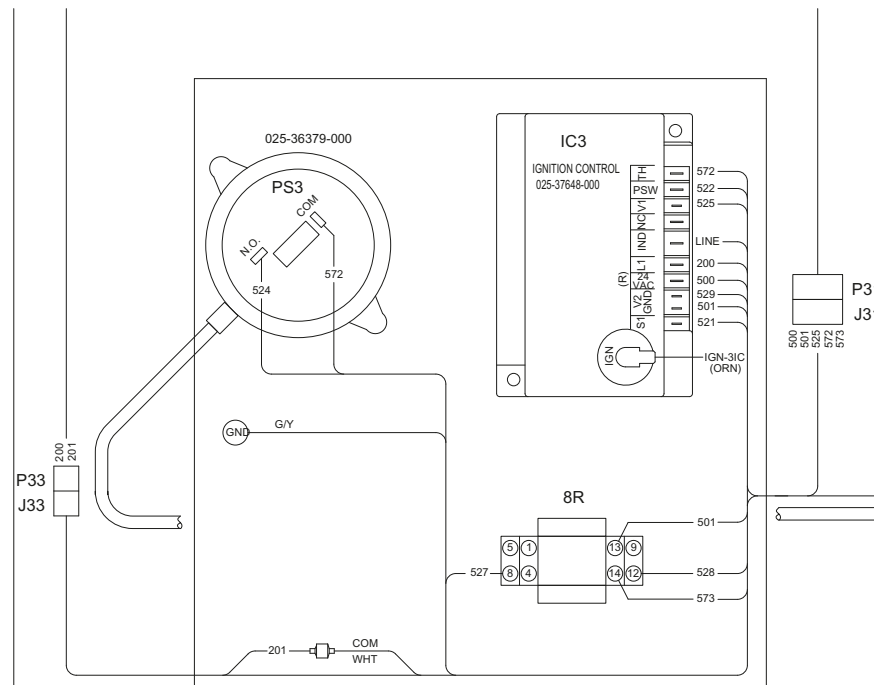
NOTES

1. 3LS, 4LS, 5LS AND 6LS ARE NOT PRESENT ON UNITS WITH 325 MBH FURNACE OPTIONS (ONE BURNER MODULE).
3LS AND 4LS ARE REQUIRED ON UNITS WITH 750MBH AND 1125 MBH FURNACE OPTIONS.
5LS AND 6LS ARE REQUIRED ON UNITS WITH 1125 MBH FURNACE OPTIONS.
2. BURNER MOUNTED LIMIT SWITCH (1LS, 3LS, AND 5LS) SETTING IS 140°F.
3. PLENUM MOUNTED LIMIT SWITCH (2LS, 4LS, AND 6LS) SETTING IS 155°F.



LD11352

FIG. 32 – YPAL, 70-130 TON, MOD D, GAS HEAT (ENLARGED VIEW #1)



LD11353

CONTROL HARNESS
025-36283-000
200,201,500,541,542,543,565,566,
570,571,572,573,574,575,576
FROM
CONTROL
BOX

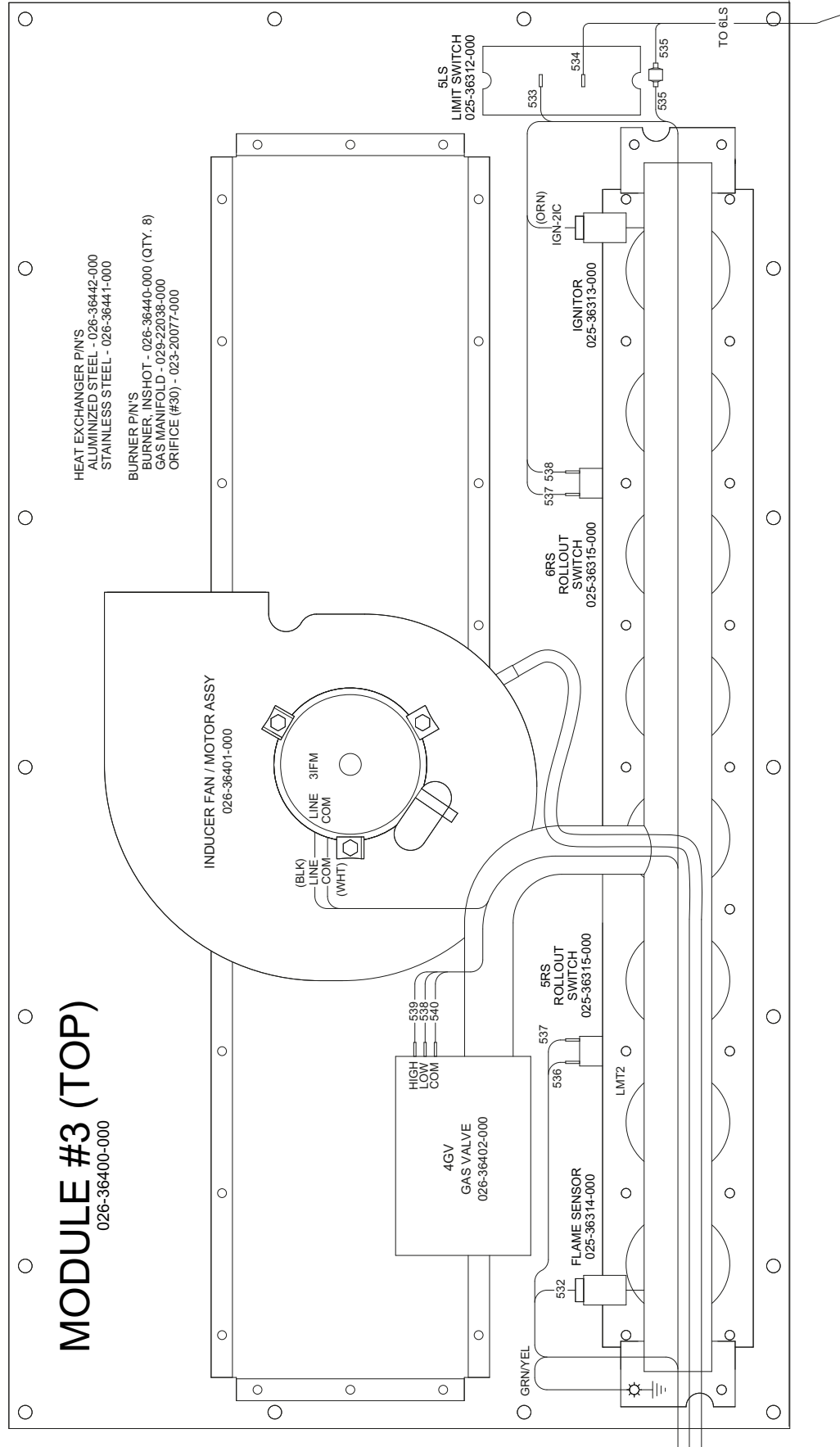
FIG. 32 – YPAL, 70-130 TON, MOD D, GAS HEAT (ENLARGED VIEW #2)

035-13489-102
REV. -

LEGEND

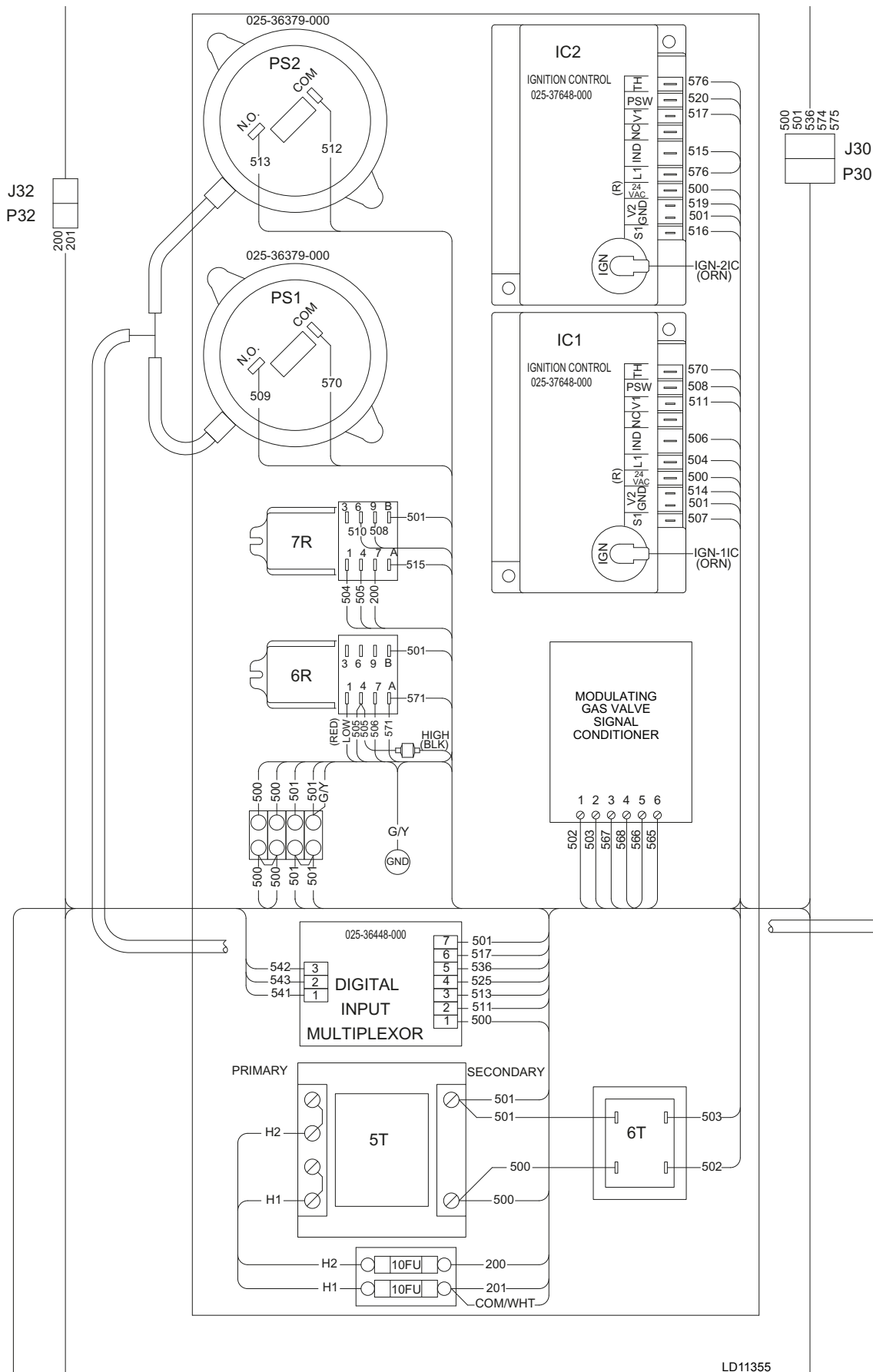
- IFM INDUCER FAN MOTOR
- GV GAS VALVE
- IC IGNITION CONTROL
- PS PRESSURE SWITCH
- LS LIMIT SWITCH
- RS ROLLOUT SWITCH

YPAL COMPONENT MAP
70-130 TON MOD GAS HEAT



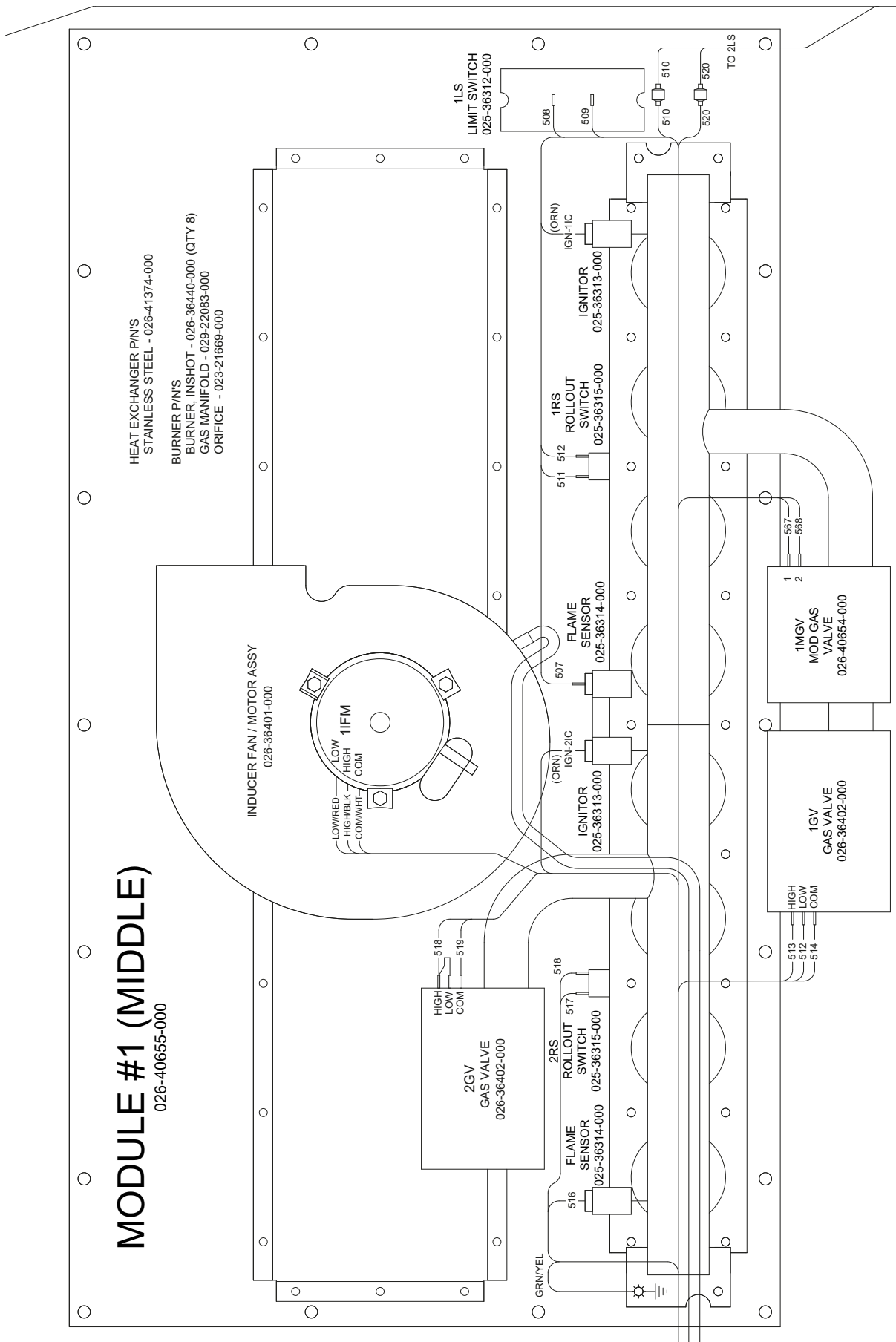
LD11354

FIG. 32 – YPAL, 70-130 TON, MOD D, GAS HEAT (ENLARGED VIEW #3)



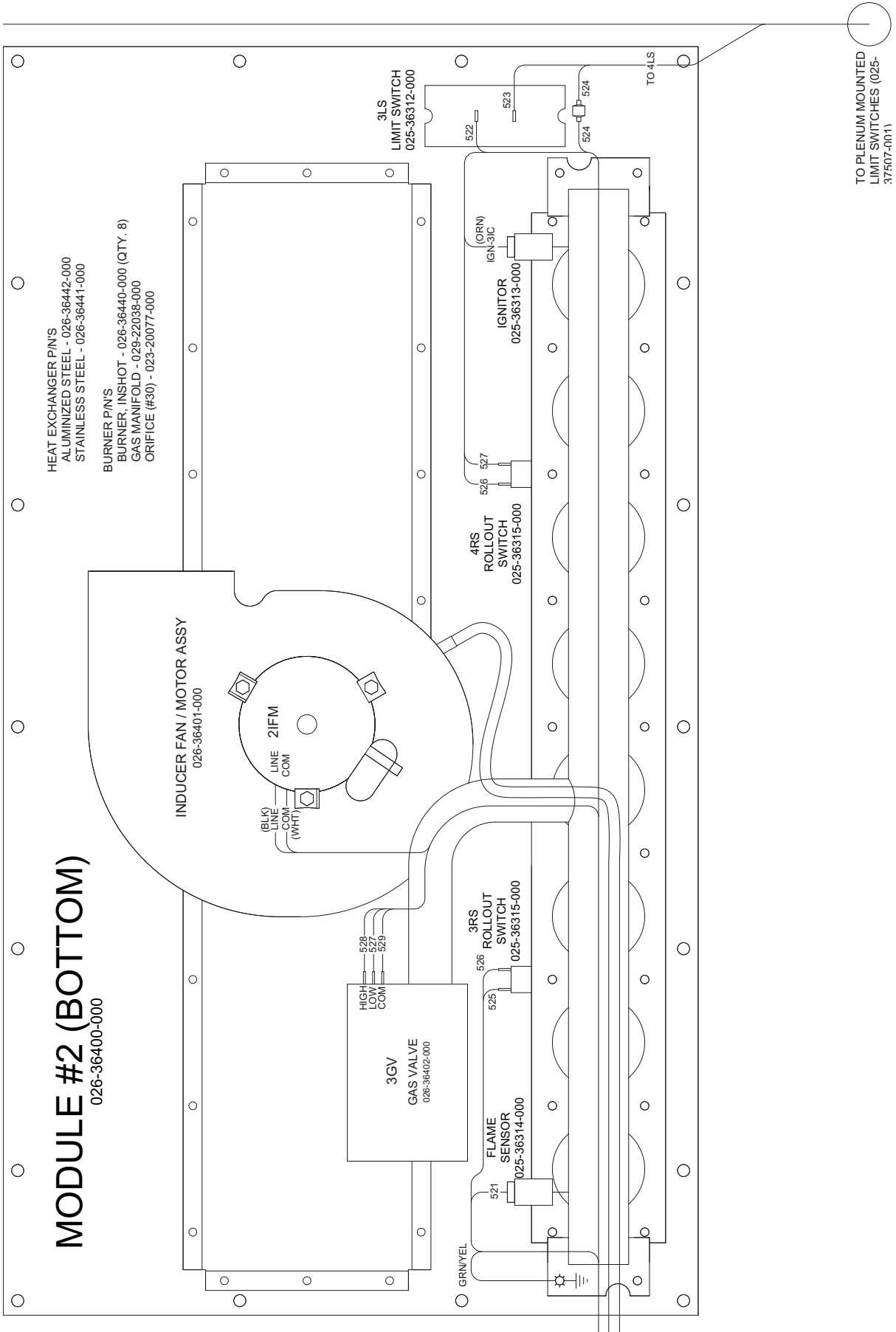
LD11355

FIG. 32 – YPAL, 70-130 TON, MOD D, GAS HEAT (ENLARGED VIEW #4)



LD11356

FIG. 32 – YPAL, 70-130 TON, MOD D, GAS HEAT (ENLARGED VIEW #5)

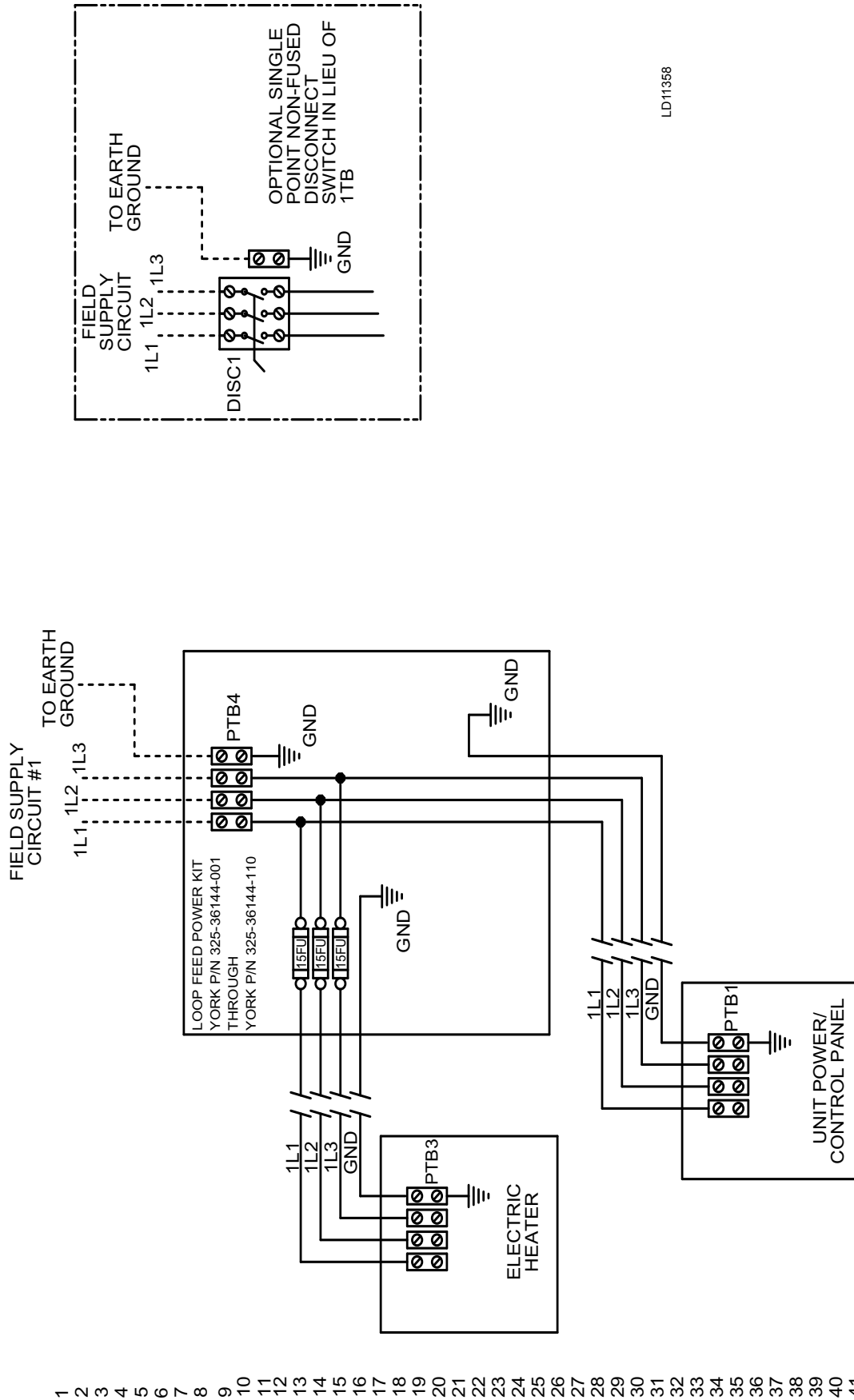


LD11357

FIG. 32 – YPAL, 70-130 TON, MOD D, GAS HEAT (ENLARGED VIEW #6)

035-13457-000
REV. B

ELEMENTARY DIAGRAM
YPAL ELECTRIC HEAT KIT
50-105 TON



LD11358

FIG. 33 – YPAL ELECTRIC HEAT KIT, 50-105 TON

