



MILLENNIUM®
AIR-COOLED RECIPROCATING
LIQUID CHILLERS

RENEWAL PARTS LIST

New Release

Form 150.52-RP2 (701)

MODELS YCAR0315 THROUGH YCAR0685
50 HERTZ



28971AR-1

105 - 230 TON
375 - 756 Kw
50 Hz



ALLY



380-415/3/50
MODELS ONLY

TABLE OF CONTENTS

	<u>PAGE</u>
UNIT NOMENCLATURE AND MODEL IDENTIFICATION	6
EVAPORATOR	
EVAPORATOR COMPONENTS	7
CONDENSER	
CONDENSER COIL COMPONENTS	8
FANS	
FAN COMPONENTS	9
PIPING	
REFRIGERANT PIPING AND OIL COMPONENTS	10
RELIEF VALVES AND HP CUTOUT SWITCH	13
COMPRESSOR	
COMPRESSOR MODEL NOMENCLATURE	16
COMPRESSOR PART NUMBERS	17
COMPRESSOR COMPONENTS	18
OIL RETURN COMPONENTS	22
REPLACEMENT MOTORS	23
CONTROL PANEL / TRANSDUCERS / TEMP SENSORS	
CONTROL PANEL COMPONENTS	24
SENSOR HARNESS	27
TRANSDUCERS AND TEMP SENSORS	30
TRANSDUCERS AND TEMPERATURE SENSOR CABLE ENDS	32
POWER PANEL	
POWER PANEL IDENTIFIERS - ACROSS THE LINE	34
POWER PANEL COMPONENTS - ACROSS THE LINE	35
POWER PANEL IDENTIFIERS - PART WIND	40
POWER PANEL COMPONENTS - PART WIND	41
4 FAN CONTACTOR PANEL COMPONENTS	44
OPTION PANEL	
OPTION AND POWER PANEL CONFIGURATIONS	46
OPTION PANEL COMPONENTS	47
OPTION PANEL IDENTIFIERS	49

TABLE OF CONTENTS (CONT'D)

	<u>PAGE</u>
CHILLER OPTIONS	
YCAR CHILLER OPTIONS - KITS AND SPARE PARTS	52
ENCLOSURE KIT OPTIONS	53
WIRE ENCLOSURE TOP SECTION PARTS BREAKDOWN	54
WIRE ENCLOSURE BOTTOM SECTION PARTS BREAKDOWN	55
LOUVERED ENCLOSURE TOP SECTION PARTS BREAKDOWN	56
LOUVERED ENCLOSURE BOTTOM SECTION PARTS BREAKDOWN	57
REMOTE CURRENT/TEMPERATURE RESET WIRING	58
REMOTE CURRENT/TEMPERATURE RESET PARTS BREAKDOWN	60
REMOTE CONTROL CENTER	61
RECOMMENDED SPARE PARTS	62

WARNING

HIGH VOLTAGE

Is used in the operation of this equipment.

DEATH OR SERIOUS INJURY

may result if personnel fail to observe safety precautions.

Work on electronic equipment should not be undertaken unless the individual(s) have been trained in the proper maintenance of equipment and is (are) familiar with its potential hazards.

Shut off power supply to the equipment before beginning work and follow lockout procedures. When working inside equipment with power off, take care to discharge every capacitor likely to hold dangerous potential.

Be careful not to contact high voltage connections when installing or operating this equipment.

LOW VOLTAGE

DO NOT be misled by the term "low voltage." Voltages as low as 50 volts may cause death.

TABLE OF CONTENTS (CONT'D)

LIST OF TABLES

TABLES

1	EVAPORATOR COMPONENTS	7
2	CONDENSER COILS	8
3	FAN COMPONENTS	9
4	REFRIGERANT AND OIL PIPING COMPONENTS	10
5	RELIEF VALVES AND HP CUTOFF SWITCH	13
6	R22 COMPRESSOR PART NUMBERS	17
7	MODEL 'P' COMPRESSOR COMPONENTS	18
8	OIL RETURN COMPONENTS	22
9	REPLACEMENT MOTORS	23
10	CONTROL PANEL COMPONENTS	24
11	SENSOR HARNESS WIRING	27
12	TRANSDUCERS AND TEMP SENSORS	30
13	TRANSDUCER AND TEMP SENSOR CABLE ENDS	32
14	POWER PANEL IDENTIFIERS - ACROSS THE LINE	34
15	POWER PANEL IDENTIFIERS -PART WIND	40
16	4 FAN CONTACTOR PANEL COMPONENTS	45
17	OPTION PANEL IDENTIFIERS	47
18	OPTION PANEL COMPONENTS	49
19	FIELD INSTALLABLE OPTIONS TABLE	52
20	ENCLOSURE KIT OPTIONS	53
21	WIRE ENCLOSURE - TOP	54
22	WIRE ENCLOSURE - BOTTOM	55
23	LOUVERED ENCLOSURE - TOP	56
24	LOUVERED ENCLOSURE - BOTTOM	57
25	REMOTE CURRENT/TEMP RESET WIRING	58
26	REMOTE CURRENT/TEMP RESET KIT	60
27	RCC PARTS	61
28	RECOMMENDED SPARE PARTS	62

TABLE OF CONTENTS (CONT'D)

LIST OF FIGURES

FIGURES

1	EVAPORATOR COMPONENTS	7
2	CONDENSER COILS LAYOUT	8
3	FAN COMPONENTS	9
4	REFRIGERANT AND OIL PIPING LAYOUT	11
5	REFRIGERANT AND OIL PIPING COMPONENTS	12
6	RELIEF VALVES AND HP CUTOUT SWITCH	13
7	MODEL 'P' COMPRESSOR COMPONENTS	22
8	OIL RETURN COMPONENTS	23
9	CONTROL PANEL BOX	25
10	CONTROL PANEL CONNECTION DIAGRAM	26
11	SENSOR HARNESS PLUGS AND PINS	27
12	SENSOR HARNESS LAYOUT	28
13	TRANSDUCERS AND TEMP SENSORS	31
14	TRANSDUCER AND TEMP SENSOR CABLE ENDS	32
15	POWER PANEL COMPONENTS - ACROSS THE LINE	35
16	POWER PANEL COMPONENTS - PART WIND	41
17	4 FAN CONTACTOR PANEL COMPONENTS	44
18	EXAMPLES OF POWER WIRING CONFIGURATIONS	46
19	OPTION PANEL COMPONENTS (CB OR NF DISC SW)	47
20	OPTION PANEL COMPONENTS (TB)	48
21	TOP SECTION - WIRE ENCLOSURE	54
22	BOTTOM SECTION - WIRE ENCLOSURE	55
23	TOP SECTION - LOUVERED PANEL ENCLOSURE	56
24	BOTTOM SECTION - LOUVERED PANEL ENCLOSURE	57
25	REMOTE CURRENT/TEMP RESET WIRING DIAGRAM	58
26	REMOTE CURRENT/TEMP RESET COMPONENTS	60
27	REMOTE CONTROL CENTER	61

UNIT NOMENCLATURE AND MODEL IDENTIFICATION

BASIC PART NUMBER

YCAR0315SC50PAA

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15
BASE PRODUCT TYPE				NOMINAL CAPACITY				UNIT DESIGNATOR	REFRIGERANT	VOLTAGE/STARTER			DESIGN/DEVELOPMENT LEVEL	
Y				#	#	#	#	S	C	5	0		A	A
: YORK				Tons				Standard Unit		:R-22			:Design Series A	
: Chiller				0315									:Engineering	
: Air Cooled				0345									Change	
R : Recip				0365									or PIN Level	
				0385										
				0415										
				0435										
				0485										
				0525										
				0575										
				0645										
				0685										

PART NUMBER – LETTER CODES

16171819

POWER FIELD

M	D	: MP NF Disconnect Switches
M	B	: MP Supply w/ Ind. Sys. Brkr. & L. Ext. Handles
S	B	: SP Supply TB w/ Ind. Sys. Brkr. & L. Ext. Handles
D	B	: SP NF Discnct. w/ Ind. Sys. Brkr. & L. Ext. Handles
S	S	: SP Supply TB w/ Ind. Sys. Brkr. & L. Ext. Handles
C	S	: SP Circuit Breaker w/ Ind. Sys. Brkr. & L. Ext. Handles
S	X	: SP Supply TB
S	D	: SP NF Disconnect Switch
B	X	: SP Circuit Breaker w/ Lockable Handle
	C	: Control Circuit Power Terminal Strip
	C	: Power Factor Capacitor

MP = Multiple Point

SP = Single Point

NF = Non-Fused

TB = Terminal Block

Ser. = Service

Ind. Sys. Brkr. & L. Ext. Handles = Individual System Breaker & Lockable External Handle

202122232425262728

CONTROLS FIELD

X	T	: No Option
C	B	: BAS/EMS TmpRst/Offst
S	F	: BAS/EMS CrntRst/Offst
G	I	: BAS/EMS Both Temp. & Current
	L	: Millennium Controls
	C	: Spanish LCD & Keypad Display
	N	: French LCD & Keypad Display
	P	: German LCD & Keypad Display
	R	: No Option
	S	: N Amer. Safety Code (cU.L./cE.T.L.)
		: European Safety Code (CE)
		: No Listing
		: Pump Control
		: Remote Control Panel
		: Seq. Cntrl & Automatic Lead Trans.

29303132333435 3637

COMPRESSOR / PIPING FIELD

#	#								
T	S	C							

38394041424344

EVAP. FIELD

3	D	: 300 PSIG DWP Waterside
	W	: Double Thick Insulation
	V	: Weld Flange Kit
	S	: Victaulic Flange Kit
		: Flow Switch
	M	: Multinat'l Vessel & Assoc. Safety Codes
	A	: ASME Pressure Vessel & Associated Codes (American)
	S	: AS 1210 Vessel & Associated Codes (Australian)
	F	: French Vessel & Associated Codes (DRIRE)
	T	: German TUV Vessel & Assoc. Codes (A.D. Merkblatter)
	I	: Italian Vessel & Associated Codes (ISPESL)
	P	: Polish Vessel & Associated Codes
	R	: Remote DX Cooler
	X	: No Option

454647

CONDENSER FIELD

X	: Aluminum
C	: Copper
B	: BlackFin
P	: Phenolic
X	: TEAO Fan Motors

48495051525354

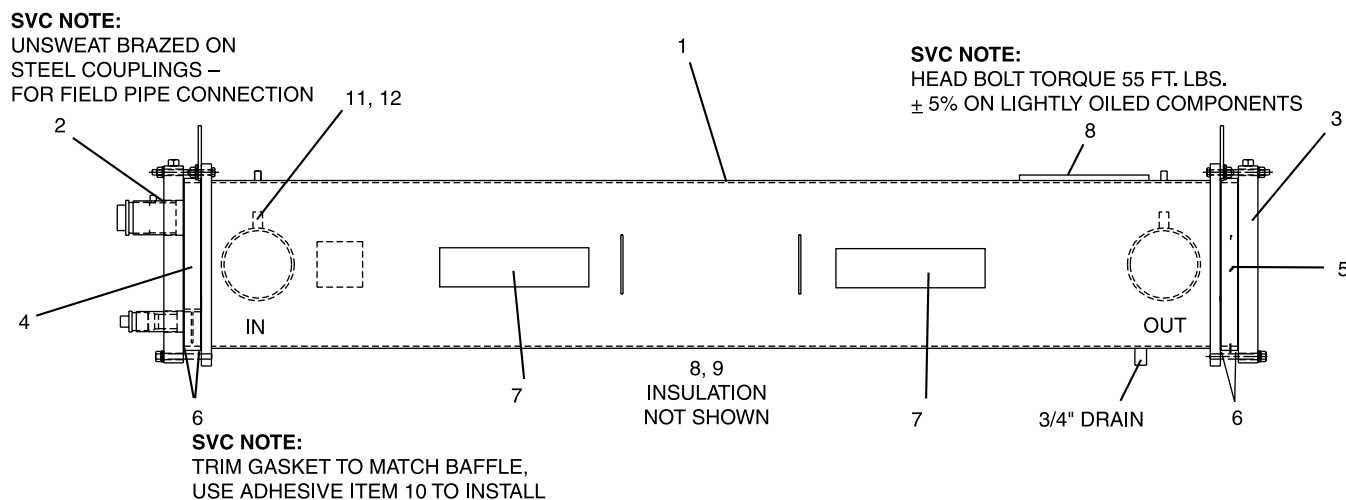
CABINET FIELD

1	: Wire (Full Unit) Enc. Panels (factory)
2	: Wire (Full Unit) Enc. Panels (field)
3	: Wire/Louvered Enc. Panels (factory)
4	: Wire/Louvered Enc. Panels (field)
5	: Louvered (Cond. Only) Enc. Panels (factory)
6	: Louvered (Cond. Only) Enc. Panels (field)
7	: Louvered (Full Unit) Enc. Panels (factory)
8	: Louvered (Full Unit) Enc. Panels (field)
E	: Compressor Sound Enclosure
X	: No Option
B	: Acoustic Sound Blanket
L	: Low Sound Fans
H	: High Static Fans
	: Final Overspray Paint
	: 1 : 1" Deflection
	: S : Seismic
	: N : Neoprene Pads

NOTES:

1. Q :DENOTES SPECIAL / S.Q.
2. # :DENOTES STANDARD
3. X :w/in OPTIONS FIELD, DENOTES NO OPTION SELECTED

EVAPORATOR COMPONENTS

**FIG. 1** –EVAPORATOR COMPONENTS - 150# EVAPORATOR SHOWN**TABLE 1** – EVAPORATOR COMPONENTS

ITEM NUMBER	QTY. PER UNIT	DESCRIPTION	DWP	UNIT MODEL YCAR0315 THRU YCAR0435	UNIT MODEL YCAR0485 THRU YCAR0685
1	1	Evaporator, less Heater & Insulation (Items 2 thru 6)	150	375-32153-000	375-32155-000
			300	375-32154-000	375-35112-000
2	1	Head, Connection End	ALL	075-35113-000	075-35114-000
3	1	Head, Back End	ALL	075-35113-000	075-35114-000
4	1	Baffle, Pass, Conn. End	ALL	375-30235-000	375-30215-000
5	1	Baffle, Pass, Back End	ALL	075-30238-000	075-20218-000
6^s	4	Gasket, Pass Baffle and Head	ALL	075-30239-000	075-30223-000
7^s	2	Heater, Cooler 280 Watt	ALL	025-22690-000	025-22691-000
8	3.5	Insulation (3/4" x 49" x 65")	ALL	010-05997-000	010-05997-000
9	2.5	Insulation (1-1/2" x 49" x 65")	ALL	010-05998-000	010-05998-000
10	1	Adhesive, 1.75 oz. Btl. (Not Shown)	ALL	013-02293-000	013-02293-000
11	2	Pipe Coupling 1/2"	ALL	023-01564-000	023-01564-000
12	2	Well, Thermo CU 1/2" x 9-1/2"	ALL	026-33627-000	026-33627-000

^s= Recommended Spare Parts

- 150# COOLER FLOW SWITCH 024-26116-000 (PIN 38 in Model No. is X; see page 6.)
- 300# COOLER FLOW SWITCH 024-12144-000 (PIN 38 in Model No. is 3; see page 6.)

CONDENSER COIL COMPONENTS

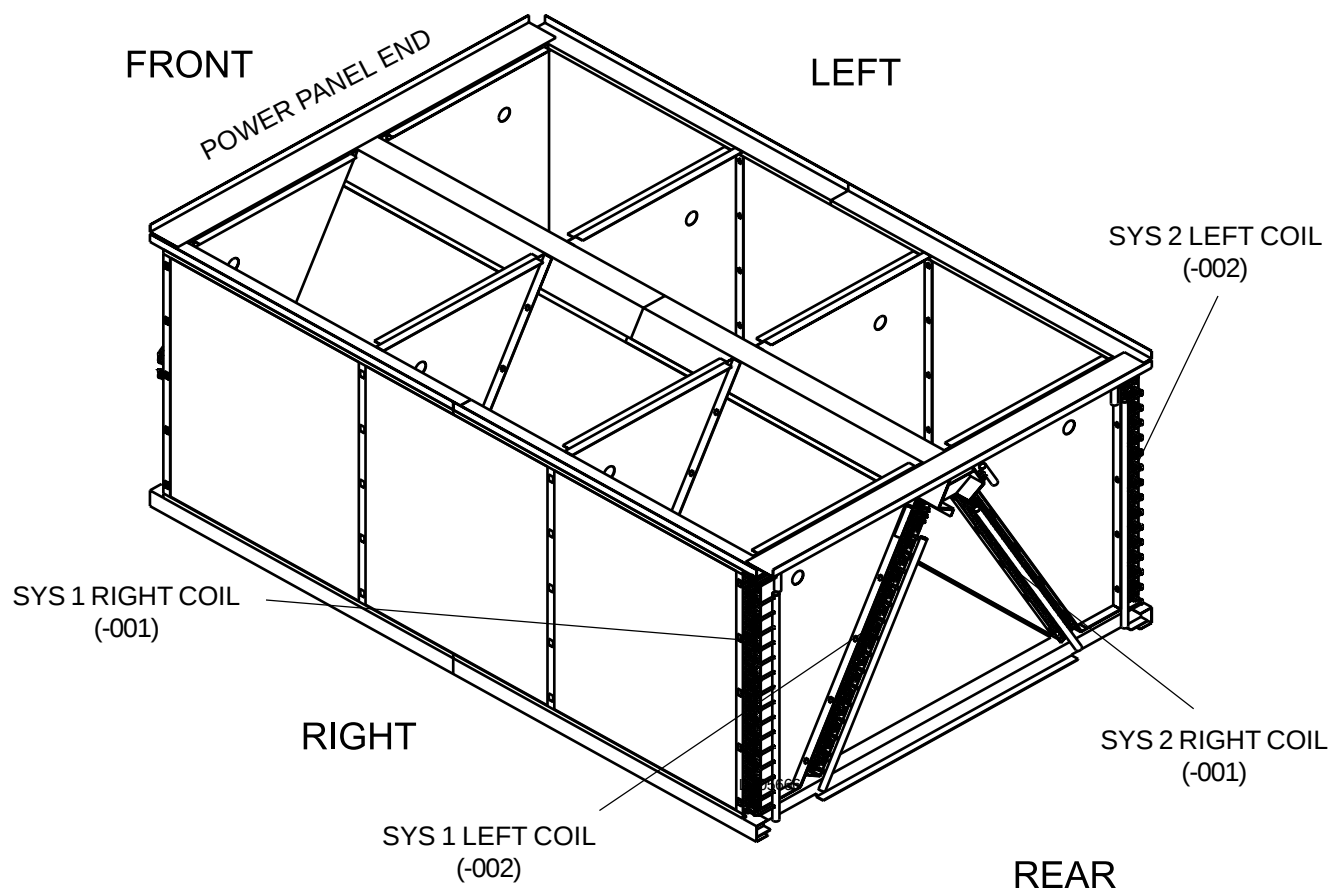


FIG. 2 – CONDENSER COIL LAYOUT

TABLE 2 – CONDENSER COILS – YCAR STYLE A CHILLERS

Coils for each circuit are denoted left and right as viewed from power panel end of chiller.

			MODELS YCAR0315-0415 12' COIL	MODELS YCAR0435-0645 16' COIL	MODELS YCAR0685 20' COIL
ITEM NUMBER	DESCRIPTION	QTY.	YORK PART NO.	YORK PART NO.	YORK PART NO.
ALUMINUM FIN COIL					
1	Cond Coil Assembly, Right	2	375-28634-001	375-28632-001	375-28630-001
2	Cond Coil Assembly, Left	2	375-28634-002	375-28632-002	375-28630-002
BLACK FIN COIL					
1	Cond Coil Assembly, Right	2	375-30146-001	375-30149-001	375-30152-001
2	Cond Coil Assembly, Left	2	375-30146-002	375-30149-002	375-30152-002
PHENOLIC COATED ALUMINUM FIN					
1	Cond Coil Assembly, Right	2	375-30145-001	375-30148-001	375-30151-001
2	Cond Coil Assembly, Left	2	375-30145-002	375-30148-002	375-30151-002
COPPER FIN					
1	Cond Coil Assembly, Right	2	375-30144-001	375-30147-001	375-30150-001
2	Cond Coil Assembly, Left	2	375-30144-002	375-30147-002	375-30150-002

NOTES: Coil Assemblies are complete with headers.

FAN COMPONENTS

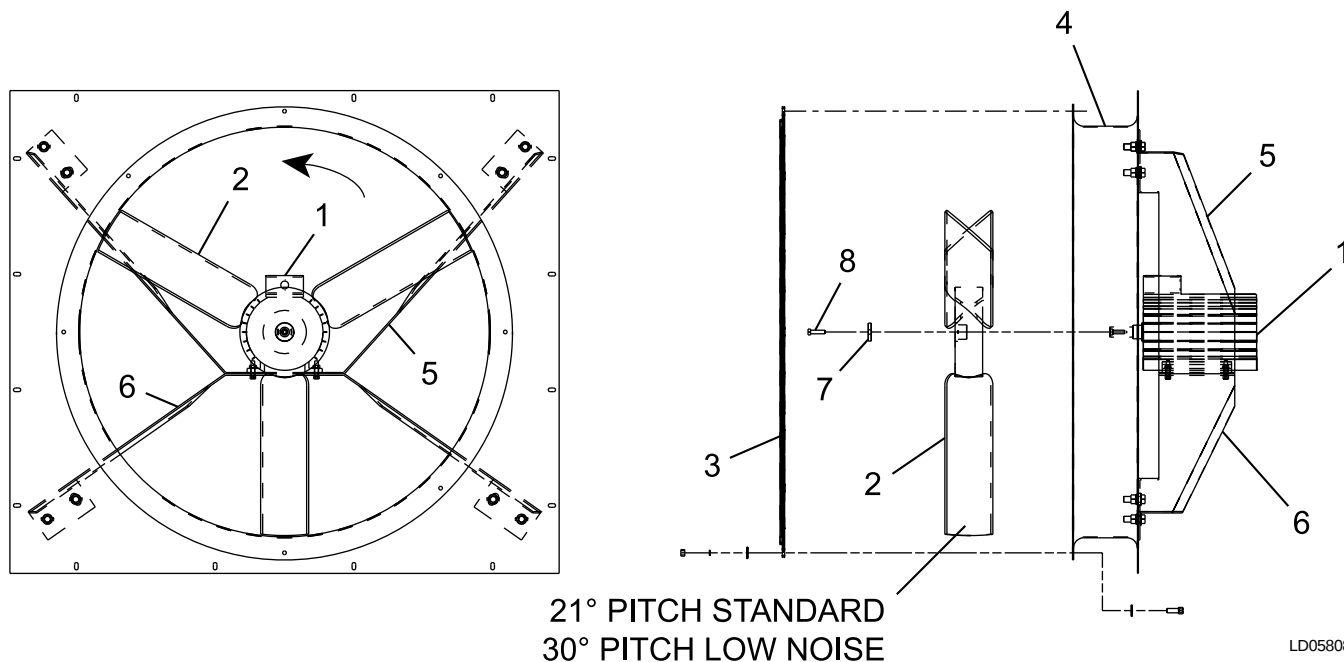


FIG. 3 – FAN COMPONENTS

Service Note: Pin Location 52 in Model Number will be "X" for Standard Fan, "L" for Low Noise Fan, or "H" for Hi Static Fans. See page 6.

TABLE 3 – FAN COMPONENTS

ITEM NUMBER	DESCRIPTION	VOLTAGE CODE	FAN TYPE	
			STANDARD 7/8" Ø SHAFT, 1160 RPM	LOW NOISE (OPTIONAL) 7/8" Ø SHAFT, 850 RPM
1^s	Motor 2 HP (Wt. = 50 LBS.)	-50	024-30900-001	024-30933-001
2^s	Blade	All	026-35392-000 21°	026-36531-000 30°
3	Guard	All	026-35605-001	026-35605-002
4	Orifice	All	026-36141-000	
5	Support, Motor, Upper	All	075-25584-000	
6	Support, Motor, Lower	All	075-25583-000	
7	Spacer, Fan Motor	All	075-29007-000	
8	Screw, Cap	All	021-18494-000	

^s= Recommended Spare Parts

Service Note: Fan Hub to Shaft Joint should be sealed with protective coating - factory uses RUST VETO 344 - a solvent type, rust preventative coating.

REFRIGERANT AND OIL PIPING COMPONENTS

CHILLER MODEL YCAR – STYLE A

TABLE 4 – REFRIGERANT PIPING COMPONENTS (SEE FIGS. 4 AND 5, PAGES 11 AND 12)

ITEM NO.	QTY / UNIT	DESCRIPTION	SYSTEM	YCAR-0315	YCAR-0345	YCAR-0365	YCAR-0385	YCAR-0415	YCAR-0435
1^s	1	Valve, Therm Exp (Evaporator)	1	025-32904	025-20069	025-32904	025-20069	025-20069	025-33709
	1		2	025-32904	025-32904	025-20069	025-20069	025-20069	025-33709
2	2	Valve, Solenoid, Liq. Line	Both	025-33704	025-33704	025-33704	025-33704	025-33704	025-33704
3	2	Dehydrator, Body (Replaceable Core)	Both	026-21055	026-21055	026-21055	026-21055	026-21055	026-21055
4^s	2	Core, Dehydrator	Both	026-37540	026-37540	026-37540	025-37540	026-37540	026-37540
5	2	Moisture Indicator, Body	Both	026-37545	026-37545	026-37545	026-37545	026-37545	026-32398
6	2	Moisture Indicator, Sight Glass, Cap Assembly	Both	026-37548	026-37548	026-37548	026-37548	026-37548	026-32800
7	2	Valve, Liquid Stop	Both	022-09778	022-09778	022-09778	022-09778	022-09778	022-09778
8	4	Valve, Charging 3/8"	Both	All Models – 022-09754-000					
9^s	2	Coil, Solenoid Fits Item 2	Both	Select Vendor To Suit: Sporlan – 025-35151-000; Alco – 025-35152-000					

^s Recommended Spare Part

ITEM NO.	QTY/ UNIT	DESCRIPTION	SYSTEM	YCAR-0485	YCAR-0525	YCAR-0575	YCAR-0645	YCAR-0685
1^s	1	Valve, Thermal Exp. (Evaporator)	1	025-33709	025-33709	025-33709	025-33709	025-34114
	1		2	025-33709	025-32906	025-33709	025-33709	025-34114
2	2	Valve, Solenoid, Liq. Line	Both	025-33704	025-33704	025-33281	025-33281	025-33281
3	2	Dehydrator, Body (Replaceable Core)	Both	026-21055	026-21055	026-16960	026-16960	026-16960
4^s	2	Core, Dehydrator	Both	026-18328	026-18328	026-37540	026-37540	026-37540
5	2	Moisture Indicator, Body	Both	026-32398	026-32398	026-37546	026-37546	026-37546
6	2	Moisture Indicator, Sight Glass, Cap Assembly	Both	026-32800	026-32800	026-37548	026-37548	026-37548
7	2	Valve, Liquid Stop	Both	022-09778	022-09778	022-09779	022-09779	022-09779
8	4	Valve, Charging 3/8"	Both	All Models – 022-09754-000				
9^s	2	Coil, Solenoid Fits Items 2	Both	Select Vendor To Suit: Sporlan - 025-35151-000; Alco - 025-35152-000				

^s Recommended Spare Part

REFRIGERANT AND OIL PIPING COMPONENTS (CONT'D)
CHILLER MODEL YCAR – STYLE A

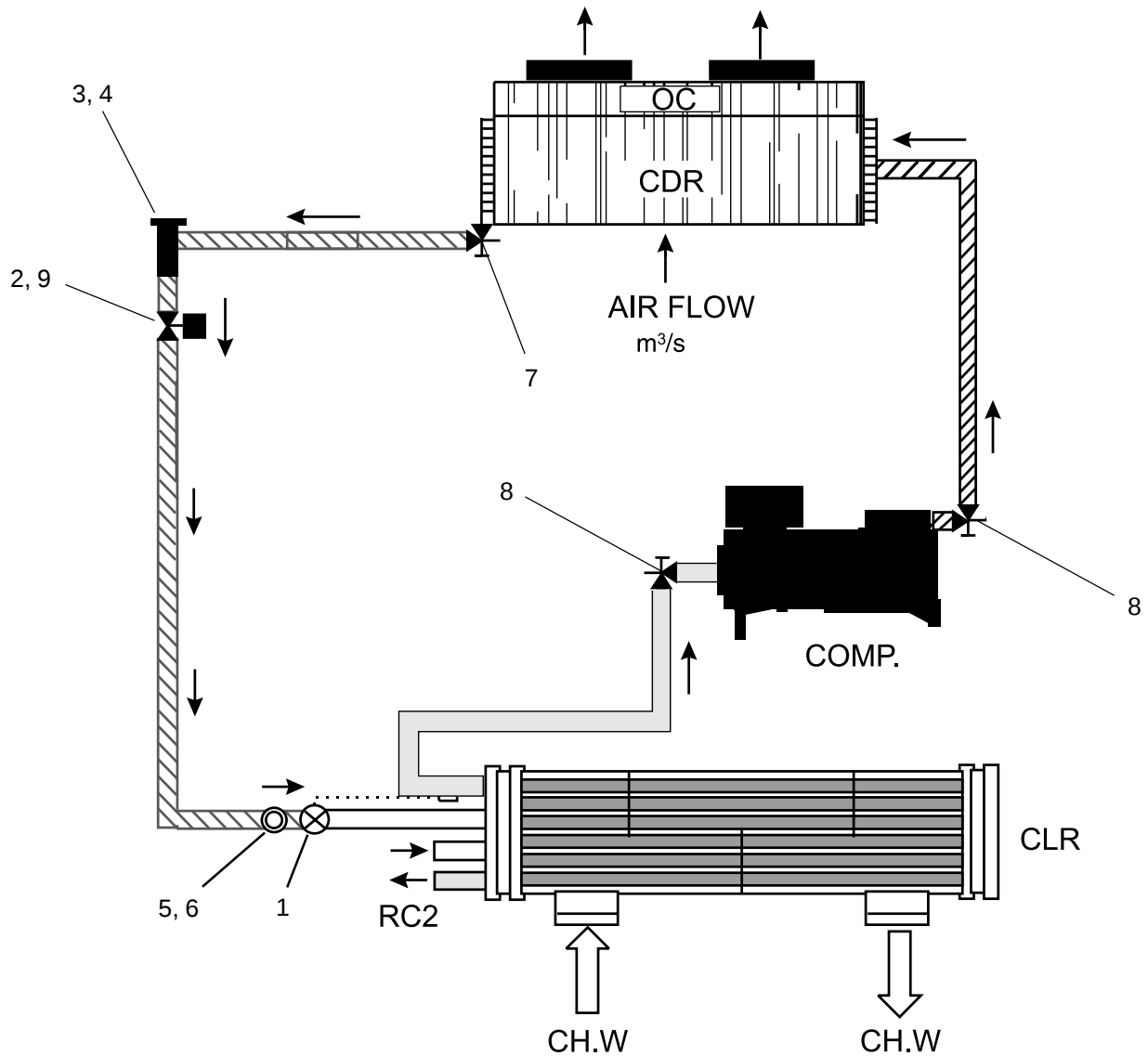


FIG. 4 – REFRIGERANT AND OIL PIPING LAYOUT (REF. TABLE 4, PAGE 10)

REFRIGERANT AND OIL PIPING COMPONENTS (CONT'D)
CHILLER MODEL YCAR - STYLE A

Piping

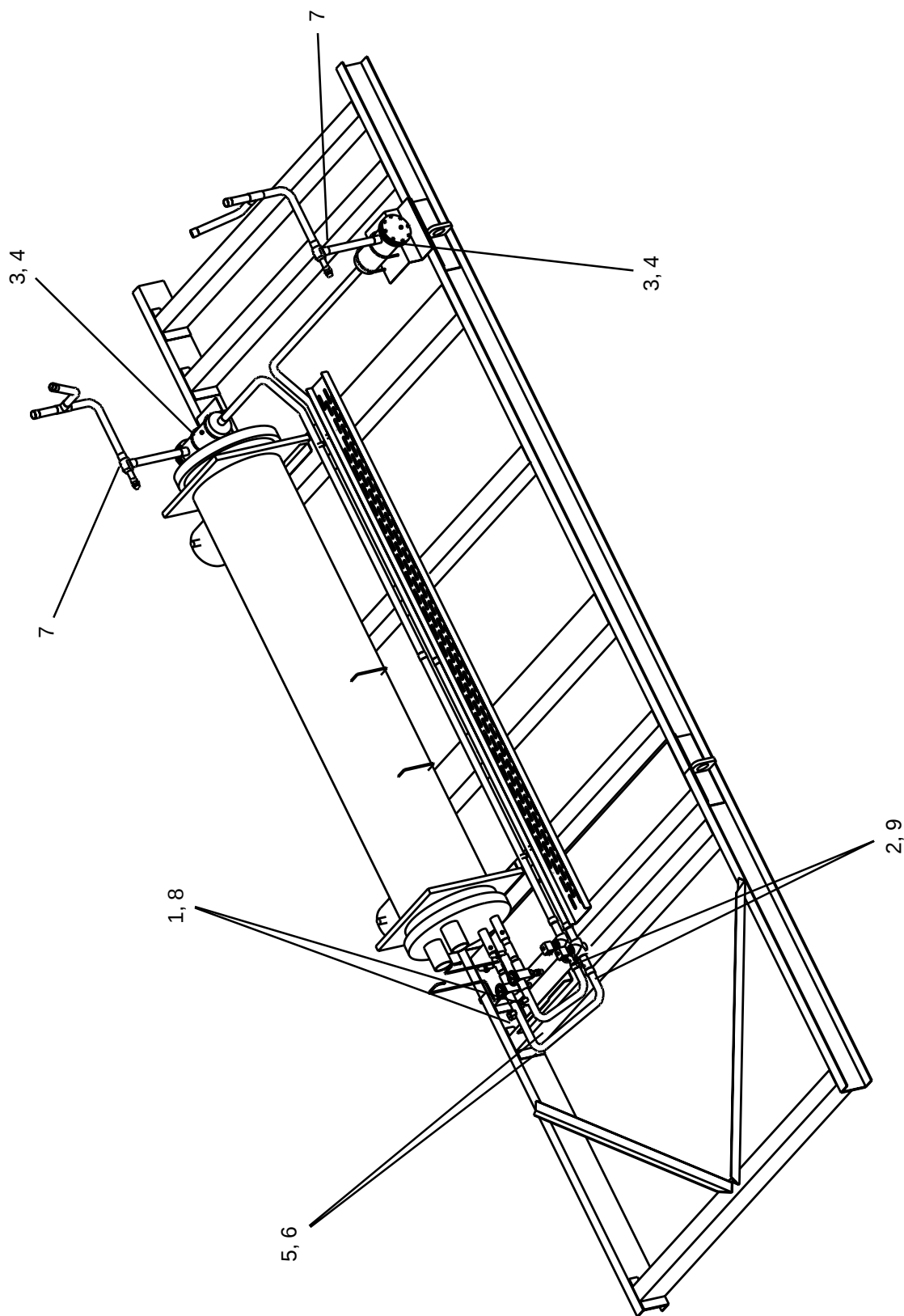
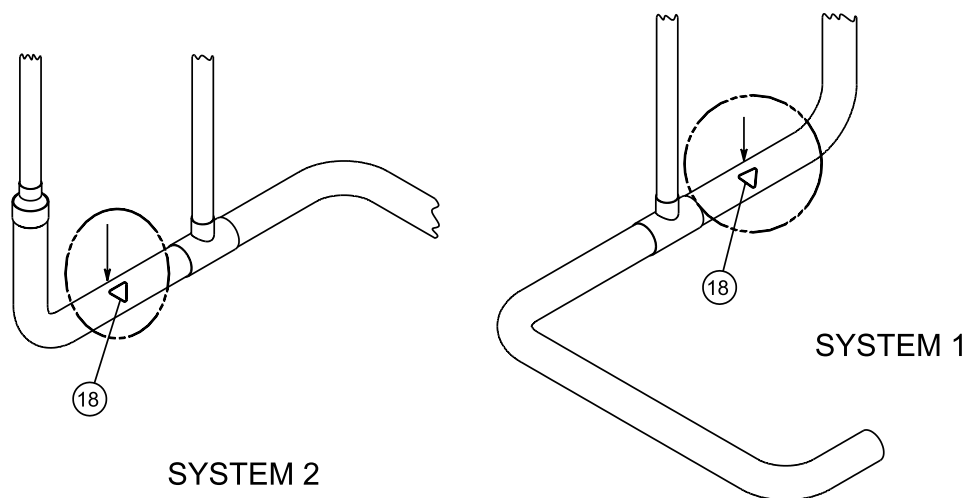


FIG. 5 – REFRIGERANT AND OIL PIPING COMPONENTS (REF. TABLE 4, PAGE 10)

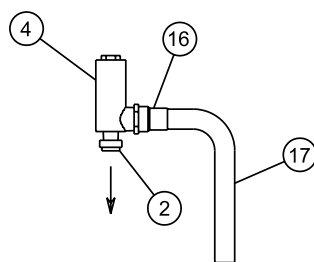
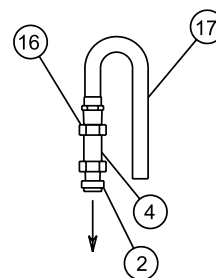
RELIEF VALVES AND HP CUTOUT SWITCH

TABLE 5 – RELIEF VALVES AND HP CUTOUT SWITCH (SEE FIG. 6, PAGES 13 - 14)

ITEM	QUANTITY PER CHILLER	DESCRIPTION	SYSTEM	ALL MODELS
15	2	Low Side Relief, Angle V 21 Bar	Both	022-09793-000
16	2	High Side Relief, Angle V 31 Bar	Both	022-09794-000
17	2	High Side Relief, Str Thru 405 PSIG	Both	022-08863-000
18	2	Low Side Relief, Str Thru 300 PSIG	Both	022-10045-000
19	2	Tube for 15, 16, 17	Both	075-30993-000
20	2	Tube for 18	Both	375-30919-000
21	2	Adapter for 15,16, 17	Both	023-00124-000
22	2	HP Sw, Man Reset 27.9 Bar	Both	025-34119-000
23	2	HP Sw, Man Reset 27.2 Bar	Both	025-34120-000
24	2	Tee for 22/23	Both	023-00972-000
25	2	HP Sw, NC, Auto Reset, 405 PSIG	Both	025-30480-000
26	2	O-Ring, 3-904	Both	028-13540-000

Piping


HIGH SIDE PRESSURE RELIEF

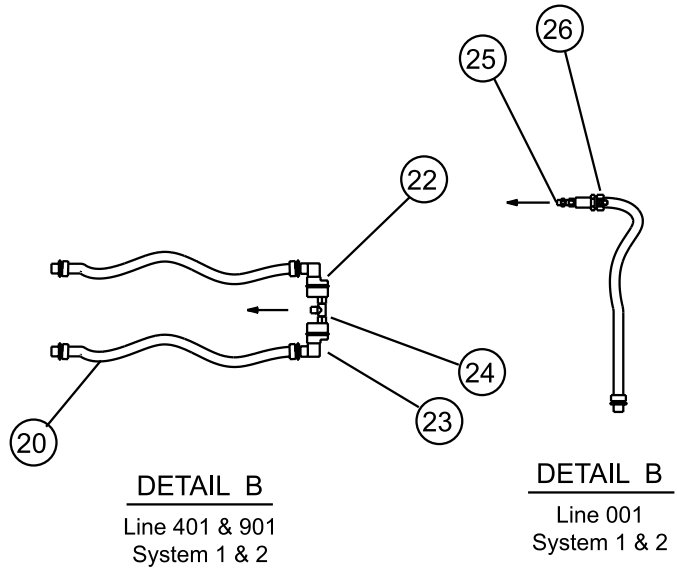
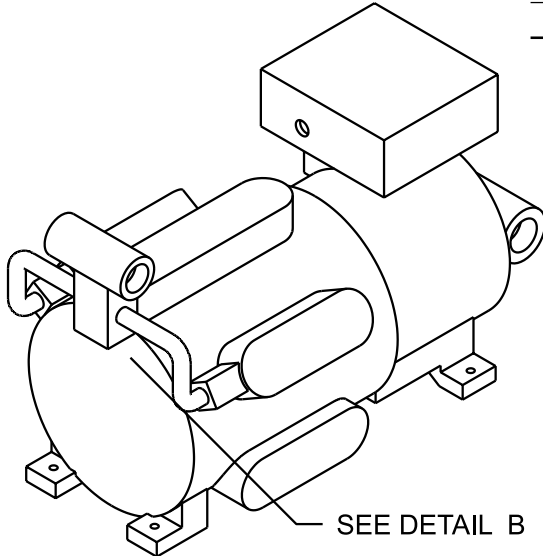

DETAIL C

DETAIL C

30730-1b

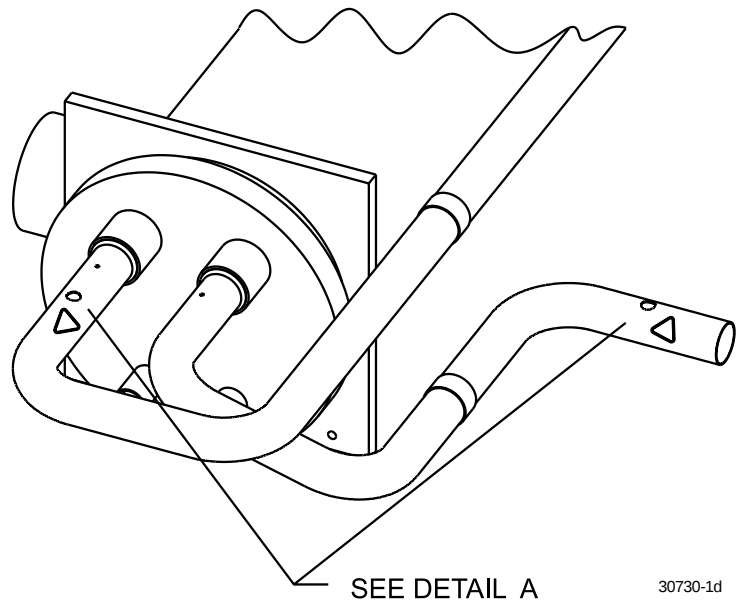
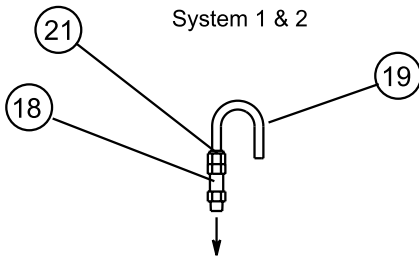
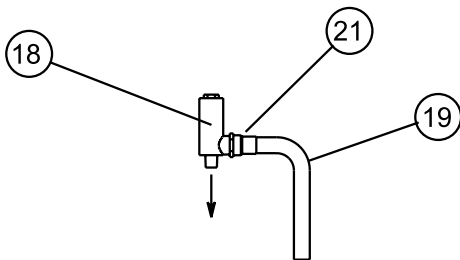
FIG. 6 – RELIEF VALVES AND HP CUTOUT SWITCH (REF. TABLE 5, PAGE 13)

RELIEF VALVES AND HP CUTOUT SWITCH (CONT'D)

LINE NUMBER APPLICATIONS		
LINE NUMBER	APPLICATION	P.I.N. POS.42 OF MODEL #
-001	ASME	A
-401	FRENCH	F
-901	GERMAN	T



HIGH PRESSURE CUT-OUT SWITCH

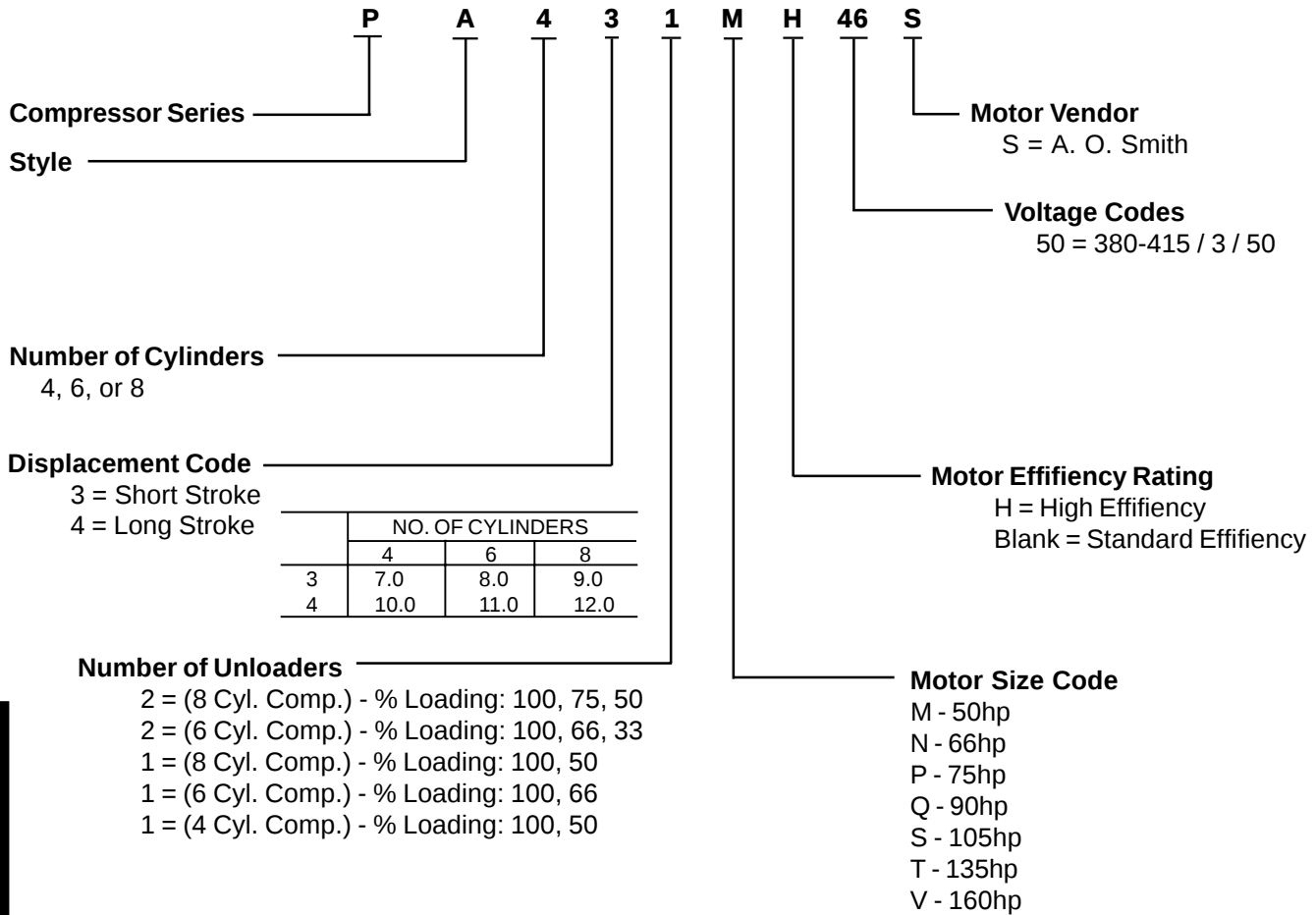


LOW SIDE PRESSURE RELIEF

FIG. 6 (CONT'D) – RELIEF VALVES AND HP CUTOUT SWITCH (REF. TABLE 5, PAGE 13)

This page intentionally left blank

COMPRESSOR MODEL NOMENCLATURE



COMPRESSOR WEIGHTS		
COMPRESSOR	WEIGHT (LBS)	Kg
P43	1500	3300
P44	1560	3432
P63	1820	4004
P64	1860	4092
P83	2040	4488
P84	2100	4620

R22 COMPRESSOR PART NUMBERS

TABLE 6 – R22 COMPRESSOR PART NUMBERS

4 CYLINDER UNIT	VOLTAGE CODE	NOM. TONS		COMPRESSOR	
		SYS 1	SYS 2	SYSTEM # 1	SYSTEM # 2
YCAR0315	-50	55	55	364-49818-005	364-49818-005
YCAR0345	-50	60	55	364-49819-025	364-49818-005
YCAR0365	-50	60	60	364-49819-025	364-49819-025
YCAR0385	-50	70	60	364-49820-025	364-49819-025
6 CYLINDER UNIT	VOLTAGE CODE	NOM. TONS		COMPRESSOR	
		SYS 1	SYS 2	SYSTEM # 1	SYSTEM # 2
YCAR0415	-50	70	70	364-49820-025	364-49820-025
YCAR0435	-50	70	70	364-49820-025	364-49820-025
YCAR0485	-50	85	70	364-49821-025	364-49820-025
YCAR0525	-50	85	85	364-49821-025	364-49821-025
YCAR0575	-50	100	100	364-49822-115	364-49822-115
8 CYLINDER UNIT	VOLTAGE CODE	NOM. TONS		COMPRESSOR	
		SYS 1	SYS 2	SYSTEM # 1	SYSTEM # 2
YCAR0645	-50	120	120	364-49823-125	364-49823-125
YCAR0685	-50	120	120	364-49823-125	364-49823-125

UNIT	PART #	MODEL
4 Cylinder	364-49818-***	PA431-MH
	364-49819-***	PA441-MH
6 Cylinder	364-49820-***	PA632-QH
	364-49821-***	PA642-SH
8 Cylinder	364-49822-***	PA832-SH
	364-49823-***	PA842-VH

COMPRESSOR COMPONENTS

TABLE 7 – MODEL ‘P’ COMPRESSOR COMPONENTS (SEE FIG. 7, PAGE 21)

ITEM NO.	DESCRIPTION	COMPRESSOR		
		4 CYLINDER	6 CYLINDER	8 CYLINDER
1	HOUSING, COMPRESSOR	064-49269-000	064-49270-000	064-49271-000
2	HEAD, COMPRESSOR (TOP)	064-48321-000	064-48321-000	064-48321-000
3	GASKSET, HEAD AND ACCESS COVER NO. REQUIRED PER COMPRESSOR	064-49542-000 4	064-49542-000 5	064-49542-000 6
4	SCREW, HEAD (16 REQUIRED)	021-17783-000	021-17783-000	021-17783-000
5	COVER, MOTOR	064-49951-000	064-49949-000	064-49950-000
6	GASKET, MOTOR COVER	064-49549-000	064-49548-000	064-49548-000
7	SCREW, 1/2" HEX CAP NO. REQUIRED PER COMPRESSOR	021-18021-000 24	021-18021-000 23	021-18021-000 22
8	LOCKWASHER, HELICAL SPRING NO. REQUIRED PER COMPRESSOR	021-05271-000 24	021-05271-000 23	021-05271-000 22
9	STUD, 1/2" NO. REQUIRED PER COMPRESSOR	021-30172-000 1	021-30172-000 1	021-30172-000 2
10	NUT, 1/2" HEX NO. REQUIRED PER COMPRESSOR	021-11154-000 1	021-11154-000 1	021-11154-000 2
11	WASHER, CLIPPED CIRCULAR NO. REQUIRED PER COMPRESSOR	021-17774-000 1	021-17774-000 1	021-17774-000 2
12	SCREEN, SUCTION (SEE ITEM 57 FOR GASKET)	026-28473-000	026-28473-000	026-28474-000
13	MANIFOLD, DISCHARGE	064-48340-000	064-48320-000	064-48341-000
14	GASKET, DISCHARGE MANIFOLD NO. REQUIRED PER COMPRESSOR	064-49546-000 2	064-49546-000 3	064-49546-000 4
15	SCREW, 3/8" HEX CAP NO. REQUIRED PER COMPRESSOR	021-01485-000 8	---- ----	021-01485-000 8
16	WASHER NO. REQUIRED PER COMPRESSOR	021-01274-000 8	---- ----	021-01274-000 8
17	SCREW, 3/8" HEX FLANGE NO. REQUIRED PER COMPRESSOR	021-17784-000 4	021-17784-000 4	021-17784-000 4
18	SCREW, 3/8" HEX FLANGE NO. REQUIRED PER COMPRESSOR	---- ----	021-17782-000 4	---- ----
19	SCREW, 3/8" HEX FLANGE NO. REQUIRED PER COMPRESSOR	---- ----	021-17781-000 4	021-08875-000 8
20	BEARING HEAD, OIL PUMP END	364-49266-000		
21	GASKET, BEARING HEAD OIL PUMP END	064-49543-000	064-49543-000	064-49543-000
22	SCREW, HEX FLANGE (44 REQUIRED)	021-17692-000	021-17692-000	021-17692-000
23	BEARING HEAD, MOTOR END	364-49228-000		
24	SCREW, 7/16" HEX (4 REQUIRED)	021-10387-000	021-10387-000	021-10387-000
25	PUMP, OIL	026-35003-000	026-35003-000	026-35003-000
26	GASKET, OIL PUMP	064-49544-000	064-49544-000	064-49544-000
27	SCREW, HEX FLANGE (6 REQUIRED)	021-17689-000	021-17689-000	021-17689-000
28 ^s	CRANKSHAFT (SHORT STROKE-PA43, PA63, PA83)	364-49221-000	364-49222-000	364-49223-000
	CRANKSHAFT (LONG STROKE-PA44, PA64, PA84)	364-49224-000	364-49225-000	364-49226-000
29	WASHER, THRUST	029-11098-000	029-11098-000	029-11098-000

COMPRESSOR COMPONENTS (CONT'D)

TABLE 7 (CONT'D) – MODEL 'P' COMPRESSOR COMPONENTS (SEE FIG. 7, PAGE 21)

ITEM NO.	DESCRIPTION	COMPRESSOR		
		4 CYLINDER	6 CYLINDER	8 CYLINDER
30	MOTOR	SEE TABLE 9		
31	KEY, MOTOR	064-26560-000	064-26560-000	064-26560-000
32	WASHER, SHAFT	064-21835-000	064-21835-000	064-21835-000
33	SCREW, 5/8" HEX CAP	021-01630-000	021-01630-000	021-01630-000
34	LOCKWASHER, SHAFT	021-05295-000	021-05295-000	021-05295-000
35	SCREEN, OIL STRAINER	029-20032-000	029-20032-000	029-20032-000
36	COMPOUND, LOCTITE (USE WITH ITEM 35)	013-01752-000	013-01752-000	013-01752-000
37	VALVE, RELIEF	022-03871-000	022-03871-000	022-03871-000
	NO. REQUIRED PER COMPRESSOR	1	2	2
38	PISTON, UNLOADER	364-48190-000		
	NO. REQUIRED PER COMPRESSOR	1	2	3
39	VALVE, SOLENOID	025-29999-000	025-29999-000	025-29999-000
	NO. REQUIRED PER COMPRESSOR	1	2	3
40	COIL, SOLENOID (LESS VALVE) - 120 VOLT	025-30976-000	025-30976-000	025-30976-000
	COIL, SOLENOID (LESS VALVE) - 240 VOLT	025-30977-000	025-30977-000	025-30977-000
	NO. REQUIRED PER COMPRESSOR	1	2	3
41	GASKET, SOLENOID VALVE	064-49541-000	064-49541-000	064-49541-000
	NO. REQUIRED PER COMPRESSOR	1	2	3
42	SCREW, 3/8" HEX CAP	021-17690-000	021-17690-000	021-17690-000
	NO. REQUIRED PER COMPRESSOR	6	12	18
43	COVER, ACCESS	064-48176-000	064-48176-000	064-48176-000
	NO. REQUIRED PER COMPRESSOR	1	2	3
44	PIN, COILED SPRING	029-21378-000	029-21378-000	029-21378-000
	NO. REQUIRED PER COMPRESSOR	1	2	3
45	SCREW, 7/16" HEX FLANGE	021-17693-000	021-17693-000	021-17693-000
	NO. REQUIRED PER COMPRESSOR	16	32	48
46	COVER, HANDHOLD (2 REQUIRED)	064-21645-000	064-21645-000	064-21645-000
47	CAGE ASSEMBLY, DISCHARGE VALVE	364-49722-000		
	NO. REQUIRED PER COMPRESSOR	4	6	8
48	SCREW, DISCHARGE VALVE CAGE	021-16827-000	021-16827-000	021-16827-000
	NO. REQUIRED PER COMPRESSOR	16	24	32
49	PLATE, VALVE SUCTION	364-49723-000		
	NO. REQUIRED PER COMPRESSOR	4	6	8
50	SLEEVE, CYLINDER	064-49655-000	064-49655-000	064-49655-000
	NO. REQUIRED PER COMPRESSOR	4	6	8
51	SEAL, O-RING, CYLINDER SLEEVE	028-12259-000	028-12259-000	028-12259-000
	NO. REQUIRED PER COMPRESSOR	4	6	8

Compressor

COMPRESSOR COMPONENTS (CONT'D)

TABLE 7 (CONT'D) – MODEL 'P' COMPRESSOR COMPONENTS (SEE FIG. 7, PAGE 21)

ITEM NO.	DESCRIPTION	COMPRESSOR		
		4 CYLINDER	6 CYLINDER	8 CYLINDER
52	PISTON ASSEMBLY	364-46538-000		
53	CONNECTING ROD ASSEMBLY	364-49011-000 (PA431, PA632, PA832) 364-49012-000 (PA441, PA642, PA842)		
54	TERMINAL BOX	364-48175-000		
55	VALVE, SUCTION STOP VALVE SIZE	022-02844-000 3-1/8"	022-02844-000 3-1/8"	022-02845-000 3-5/8"
56	SCREW, 5/8" HEX CAP (4 REQUIRED)	021-16817-000	021-16817-000	021-16818-000
57	GASKET (2 REQUIRED)	064-47079-000	064-47079-000	064-47204-000
58	VALVE, DISCHARGE STOP VALVE SIZE	022-01394-000 2-5/8"	022-01394-000 2-5/8"	022-02844-000 3-1/8"
59	SCREW, 5/8" HEX CAP (4 REQUIRED)	021-16821-000	021-16821-000	021-16817-000
60	GASKET, DISCHARGE VALVE	064-47078-000	064-47078-000	064-47079-000
61	SIGHT GLASS, OIL (2 REQUIRED)	026-17581-000	026-17581-000	026-17581-000
62	SEALER, REFRIGERANT PIPE	013-02023-000	013-02023-000	013-02023-000
63	VALVE, OIL CHARGING	022-01582-000	022-01582-000	022-01582-000
64	CAP, OIL CHARGING VALVE	023-00977-000	023-00977-000	023-00977-000
65	PIPE PLUG, 1/8" HEX SOCKET NO. REQUIRED PER COMPRESSOR	023-01970-000 1	023-01970-000 2	023-01970-000 3
66	HEATER, CRANKCASE - 120 VOLT HEATER, CRANKCASE - 240 VOLT	025-32938-000 025-32939-000	025-32938-000 025-32939-000	025-32938-000 025-32939-000
67	COMPOUND, HEAT CONDUCTIVE	013-00898-000	013-00898-000	013-00898-000
68	PLUG, DRAIN ORIFICE - 0.022" NO. REQUIRED PER COMPRESSOR	064-47349-000 1	064-47349-000 2	064-47349-000 3
69	PIPE PLUG, 1/8" HEX SOCKET NO. REQUIRED PER COMPRESSOR	023-01972-000 3	023-01972-000 4	023-01972-000 6
70	SENSOR, OIL TEMPERATURE	025-32966-000	025-32966-000	025-32966-000
71	MAGNET (2 REQUIRED)	029-22748-000	029-22748-000	029-22748-000
72	COVER PLATE, BLANK	064-48187-000	064-48187-000	064-48187-000
73	SEALER, LOCTITE (USE WITH ITEM 9)	013-01671-000	013-01671-000	013-01671-000
74	SCREW, 3/8" HEX CAP	021-01458-000	021-01458-000	021-01458-000
75	WASHER	021-01267-000	021-01267-000	021-01267-000
76	SEAL, O-RING, CONDUIT NO. REQUIRED PER COMPRESSOR	028-03292-000 1	028-03292-000 2	028-03292-000 3

Compressor

ITEM NO.	QTY PER COMP	DESCRIPTION	MODEL YCAR0315 - YCAR0685
OIL ^S	3 GAL	OIL, TYPE C POE	011-00575-000

^SRecommended Spare Part

COMPRESSOR COMPONENTS (CONT'D)

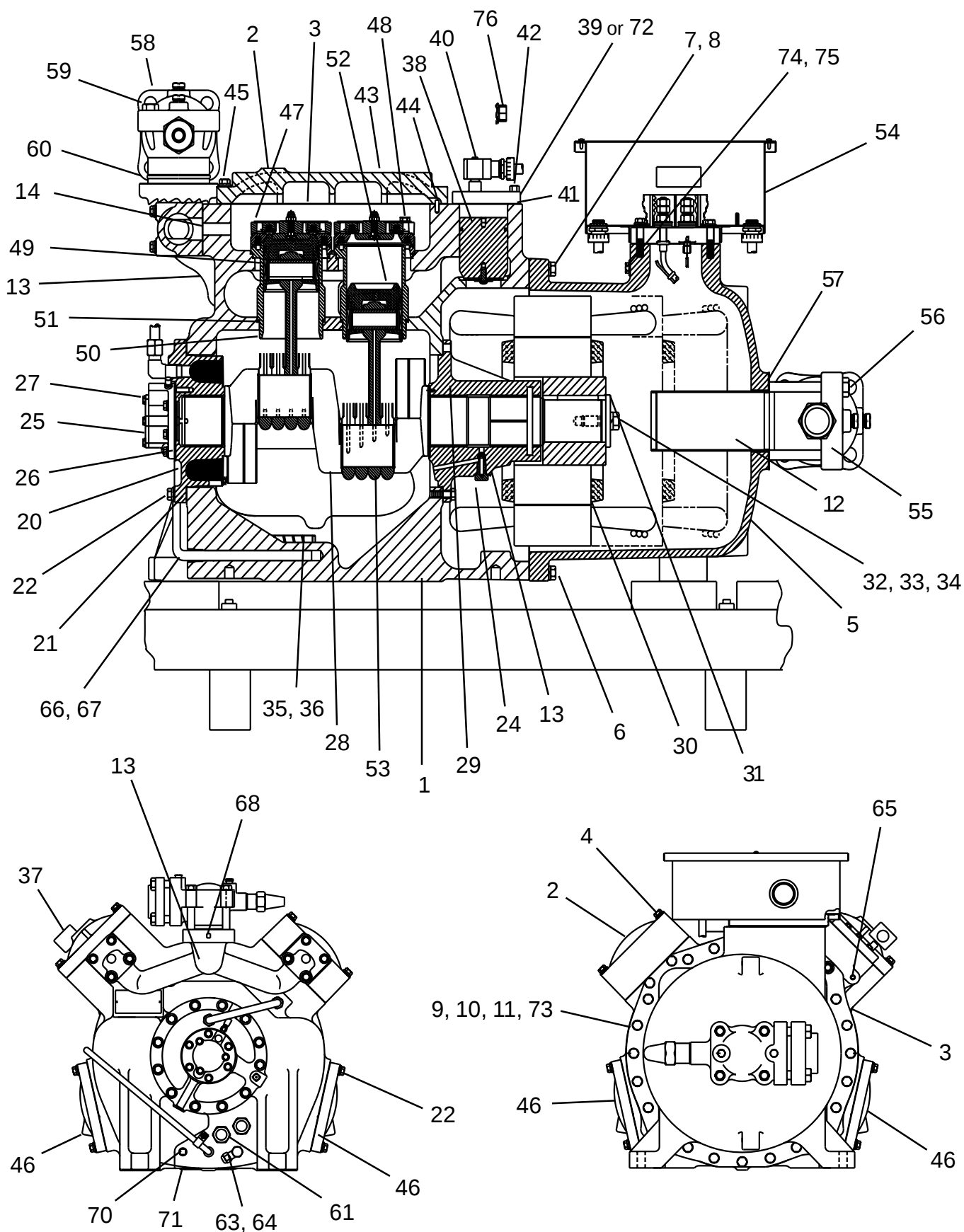


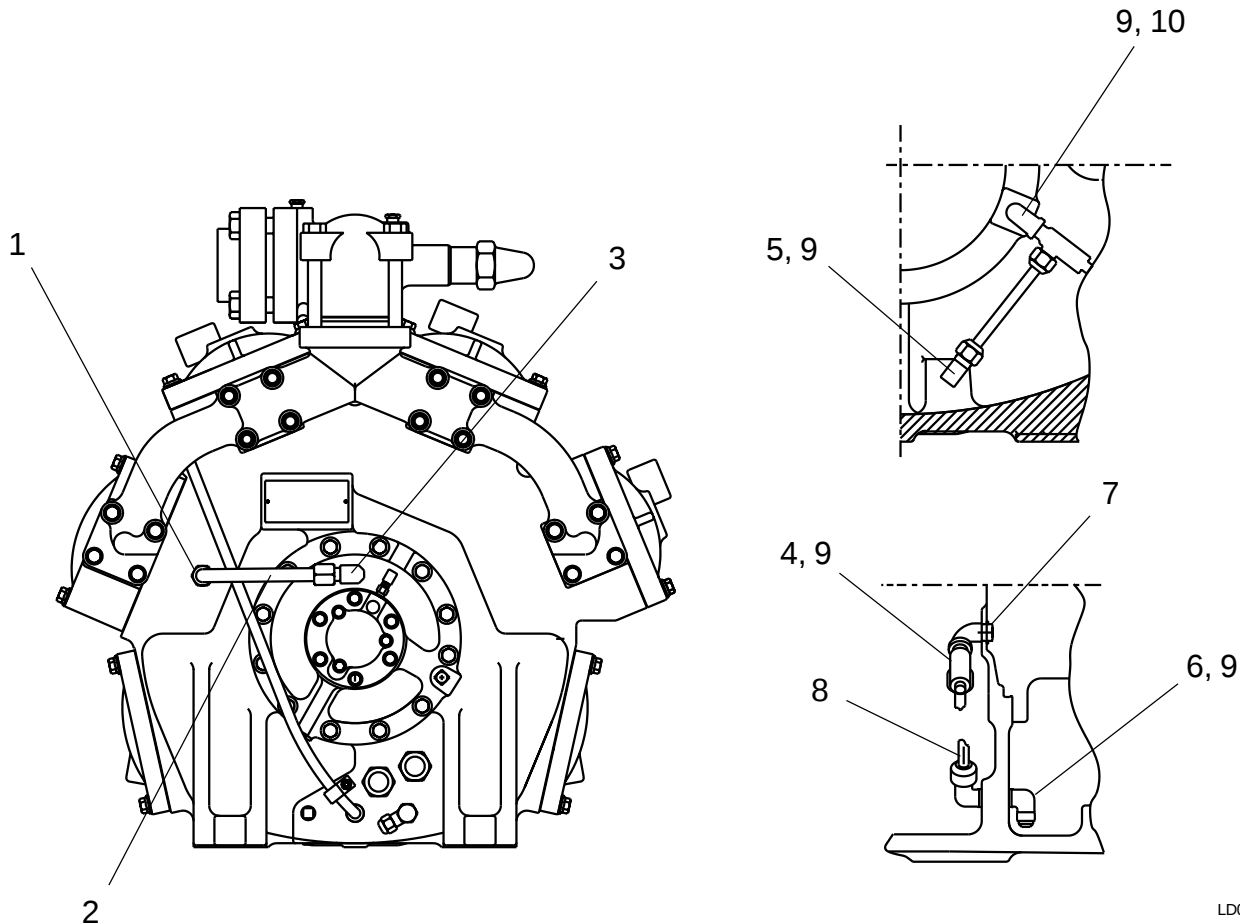
FIG. 7 – MODEL ‘P’ COMPRESSOR COMPONENTS (REF. TABLE 8, PAGES 18 - 20)

OIL RETURN COMPONENTS

TABLE 8 – OIL RETURN COMPONENTS

ITEM NO.	DESCRIPTION	COMPRESSOR		
		4 CYLINDER	6 CYLINDER	8 CYLINDER
OIL RETURN PIPING, PUMP END				
1	CONNECTOR, BEARING HEAD TO HOUSING	364-49283-000	364-49284-000	364-49285-000
2	CONNECTOR, FLARE	023-18955-000	023-18955-000	023-18955-000
	NO. REQUIRED PER COMPRESSOR	2	1	1
3	ELBOW	NOT REQUIRED	023-18956-000	023-18956-000
OIL RETURN PIPING, MOTOR END				
4	EDUCTOR, OIL RETURN	022-09716-000	022-09716-000	022-09716-000
5	VALVE, CHECK	022-09741-000	022-09741-000	022-09741-000
6	ELBOW	023-00868-000	023-00868-000	023-00868-000
7	SEAL, O-RING	028-13896-000	028-13896-000	028-13896-000
8	CONNECTOR, EDUCTOR TO CHECK VALVE	364-49345-000	364-49345-000	364-49345-000
9	SEALER, REMOVABLE THREAD	013-01678-000	013-01678-000	013-01678-000
10	ELBOW, STREET 1/4" X 1/4"	023-01685-000	023-01685-000	023-01685-000

Compressor



LD05268

FIG. 8 – OIL RETURN COMPONENTS

TABLE 9 – REPLACEMENT MOTORS

VOLTAGE	VOLTAGE CODE	MOTOR SIZE CODE						
		M	N	P	Q	S	T	V
		STANDARD MOTORS						
380-415/3/50	-50	364-47924-001	364-47924-008	364-47924-015	364-47924-022	364-47924-029	—	—
		HIGH EFFICIENCY MOTORS*						
380-415/3/50	-50	364-49053-001	364-49053-008	364-49053-015	364-49053-022	364-49053-029	—	—

Note:
Replacement motor must be the same size code and voltage code as the original motor, identified by the sixth and eighth digit of the Compressor Model Number. (See page 16).
*High efficiency motors are identified by the seventh digit of the Compressor Model Number. (See page 16).

CONTROL PANEL COMPONENTS

TABLE 10 – CONTROL PANEL COMPONENTS (SEE FIGS. 9 AND 10, PAGES 25 AND 26)

ITEM NO.	QUANTITY	DESCRIPTION	PART NO.	NOTE
1	1	Door For Micro-Compartment	RAM-201704	2-Piece Bolted Control/Option Panel
	1	Door for Options Compartment	RAM-201733	
1	1	Door For Micro-Compartment	071-03616-000	1-Piece Control/Option Panel
	1	Door For Options Compartment	071-03617-000	
2^s	1	MicroBoard	031-01095-002	
3^s	1	Power Supply Board	031-01094-000	
4^s	2	Relay Circuit Board	031-01093-000	
5	1	Transformer, Control 2T	025-27911-000	
6	1	Kit, Terminal Block	025-33760-000	115V / 24V
7	1	Kit, Terminal Block	025-33761-000	
8	2	Catch, Magnetic (Not Shown)	029-20878-000	
9	22	Screw, Tap Thread	021-13789-000	
10	1	Tag, Identification	035-15183-000	
11	28	Nut, Expansion	021-14661-000	
12	28	Screw, Tap Thread	021-14667-000	
13	4	Lockwasher, TH Int 3/8	021-01155-000	
14	4	Nut, Hex 3/8-16 UNC-2B	021-00467-000	
15	3	Circuit Breaker, 6A	024-30913-000	
16	24	Nut/Washer Assembly (KEPS)	021-18024-000	
17	2	Strap, Cable	025-18167-000	
18	1	Transformer, Control 3T	025-18452-000	208/240 Primary / 24V sec. Used for 110 / 12V
19	22	Screw, Tap, Pan Head	021-13789-000	
20	4	Lockwasher, Hel. Spring,	021-17576-000	
21	4	Nut, Hex	021-10056-000	
22	2	Switch, On/Off	024-25517-000	
23	1	Display	031-01110-000	
24	1	Ribbon Cable	071-02253-251	
25	4	Ribbon Cable	071-02253-252	
26	1	Ribbon Cable	071-02253-253	
27	3	Clamp, Ribbon Wire	025-25156-000	
28	1	Transformer, Control 4T	025-30889-000	
29	4	Spacer, Nylon	021-17575-000	115V / 24V
30	1	Harness, Hinged Panel	571-01226-211	
31	1	Harness, Main Panel	571-02253-201	
32	1	Connector, Cable Strap	025-08301-000	
33	1	Relay, Control	024-25598-000	
34	1	EPROM (Use with I/O Board)	031-02013-001	
35	1	Label, Caution	035-15989-000	
36	3	Label, Warning	035-11929-000	
37	2	Connector, Cable Strap	025-12282-000	
38	1	I/O Expansion Board	031-01689-000	
39	1	Ribbon Cable	071-02253-254	
40	Varies	Plug, 6 Pin (Microboard)	025-28382-000	
41	Varies	Plug, 9 Pin (Microboard)	025-28383-000	
42	Varies	Plug, 12 Pin (Microboard)	025-28384-000	
43	Varies	Socket, Wire End	025-28386-000	Use with Plugs 40, 41, 42
44	1	Keypad (Not Shown)	024-30927-000	

^s Recommended Spare Part

CONTROL PANEL COMPONENTS (CONT'D)

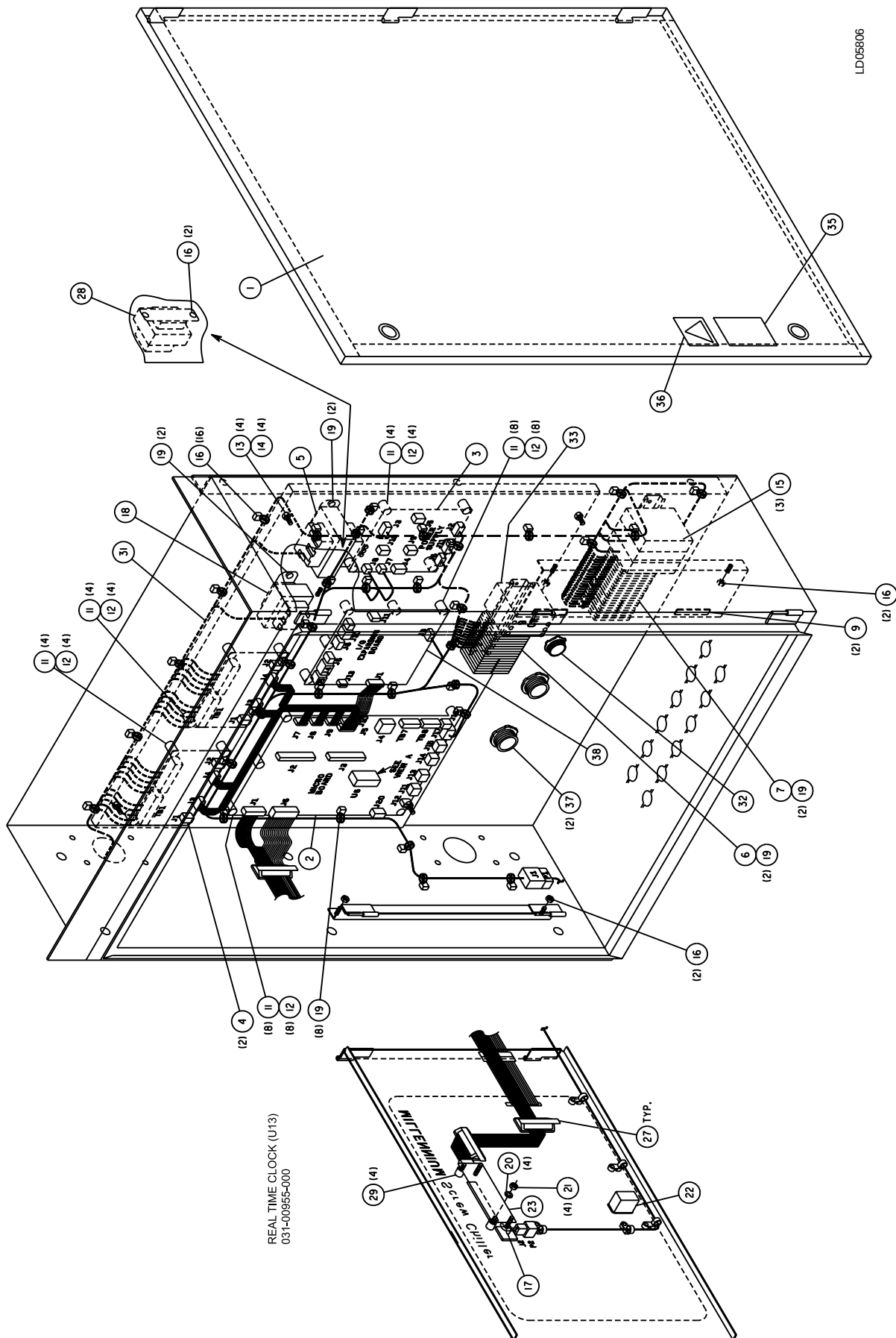
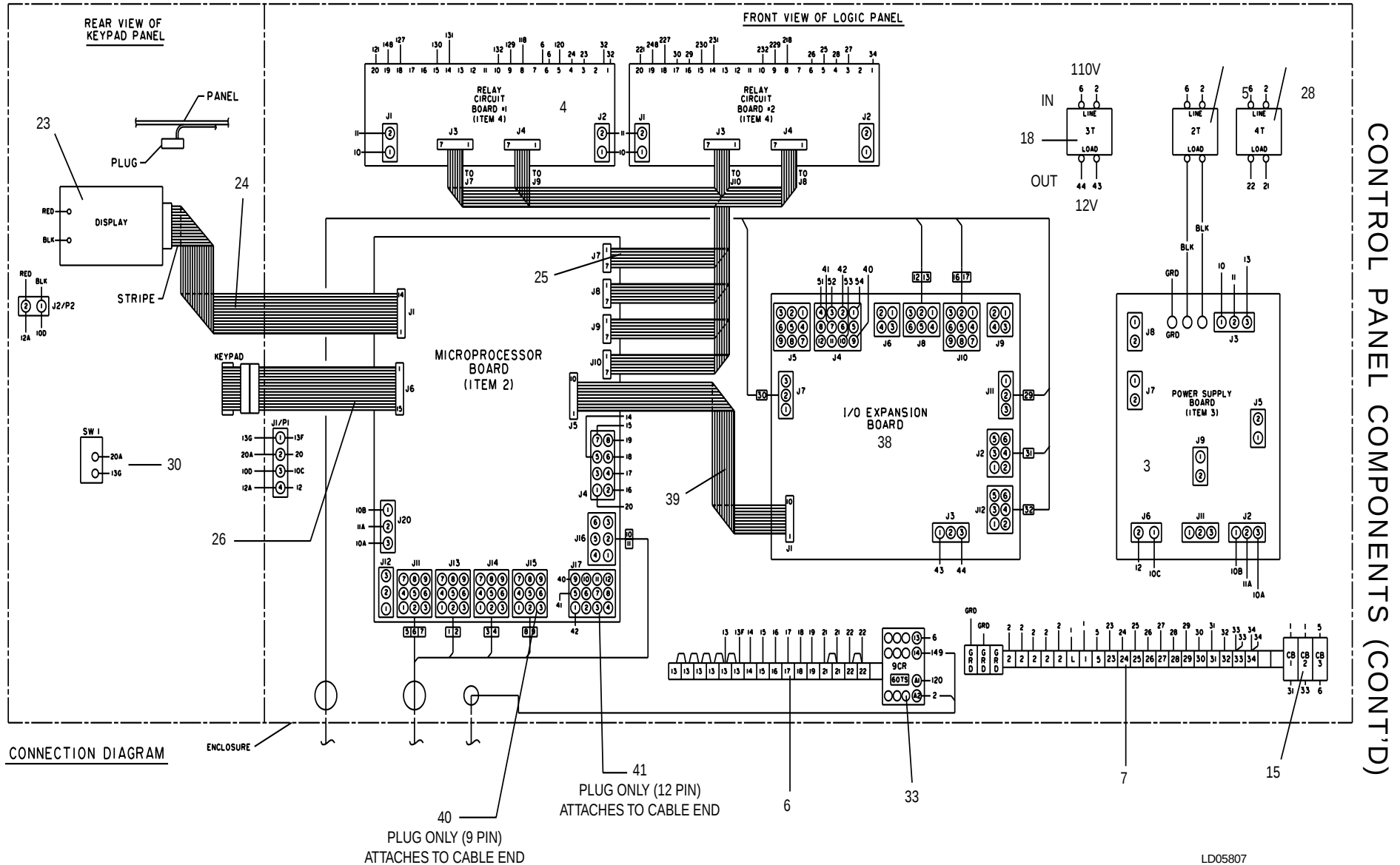


FIG. 9 – CONTROL PANEL BOX (REF. TABLE 10, PAGE 24)

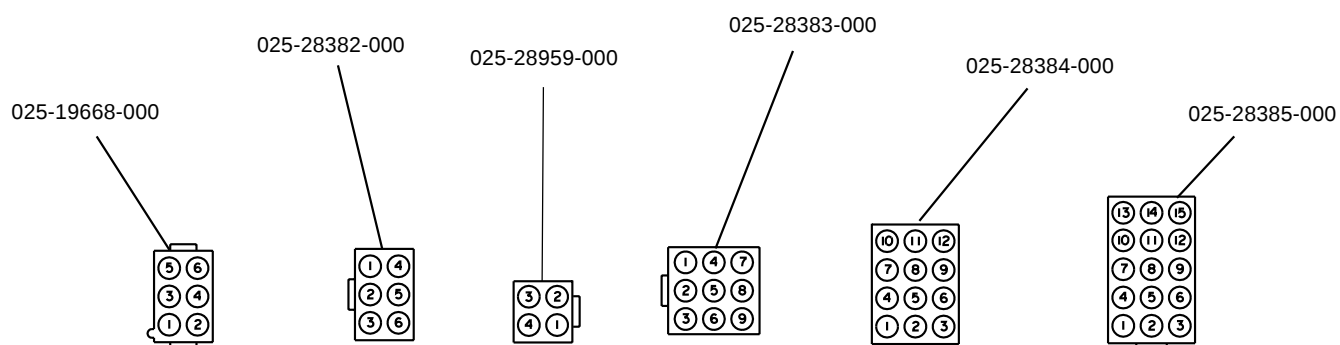


SENSOR HARNESS

TABLE 11 – SENSOR HARNESS WIRING (SEE FIGS. 12 AND 13, PAGES 28 - 29)

BOARD LOCATION	CABLE ITEM NO.	CABLE NO.	WIRE COLOR	PLUG PIN NO.	FUNCTION	HARNESS ASSEMBLY PART NUMBERS
MICRO P13	104	4	RED	4	SYS #1 SUCTION PRESSURE	371-02403-241
			BLK	1		
			WHT	7		
			DRAIN	2		
	105	6	RED	5	SYS #1 OIL PRESSURE	371-02403-243
			BLK	3		
			WHT	8		
MICRO P14	106	5	DRAIN	9	SYS #2 SUCTION PRESSURE	371-02403-242
			RED	4		
			BLK	1		
			WHT	7		
	107	7	DRAIN	2	SYS #2 OIL PRESSURE	371-02403-244
			RED	5		
			BLK	3		
MICRO P11	100	1	WHT	8	LEAVING CHILLED WATER	371-02403-231
			DRAIN	9		
			RED	7		
	101	2	BLK	4	OUTSIDE AIR TEMP.	371-02403-232
			DRAIN	1		
			RED	9		
	103	3	BLK	6	ENTERING CHILLED WATER	371-02403-233
DRAIN			3			
RED			8			
MICRO P15	108	8	DRAIN	2	SYS #1 DISCH. PRESSURE	371-02403-245
			RED	5		
			BLK	3		
			WHT	8		
	109	9	DRAIN	9	SYS #2 DISCH. PRESSURE	371-02403-246
			RED	4		
			BLK	1		
MICRO P16	110	10	WHT	7	SYS #1 SUCTION TEMP.	371-02403-234
			DRAIN	2		
			RED	5		
	111	11	BLK	6	SYS #2 SUCTION TEMP.	371-02403-235
			DRAIN	3		
			RED	2		
	I/O P10	112	12	BLK	4	SYS #1 OIL TEMP.
DRAIN				7		
RED				3		
102		13	DRAIN	5	SYS #2 OIL TEMP.	371-02403-237
			BLK	6		
			RED	2		

Note: Harness comes with plug for sensor connection. Plug and sockets (43) for Microboard connection must be ordered separately when needed.



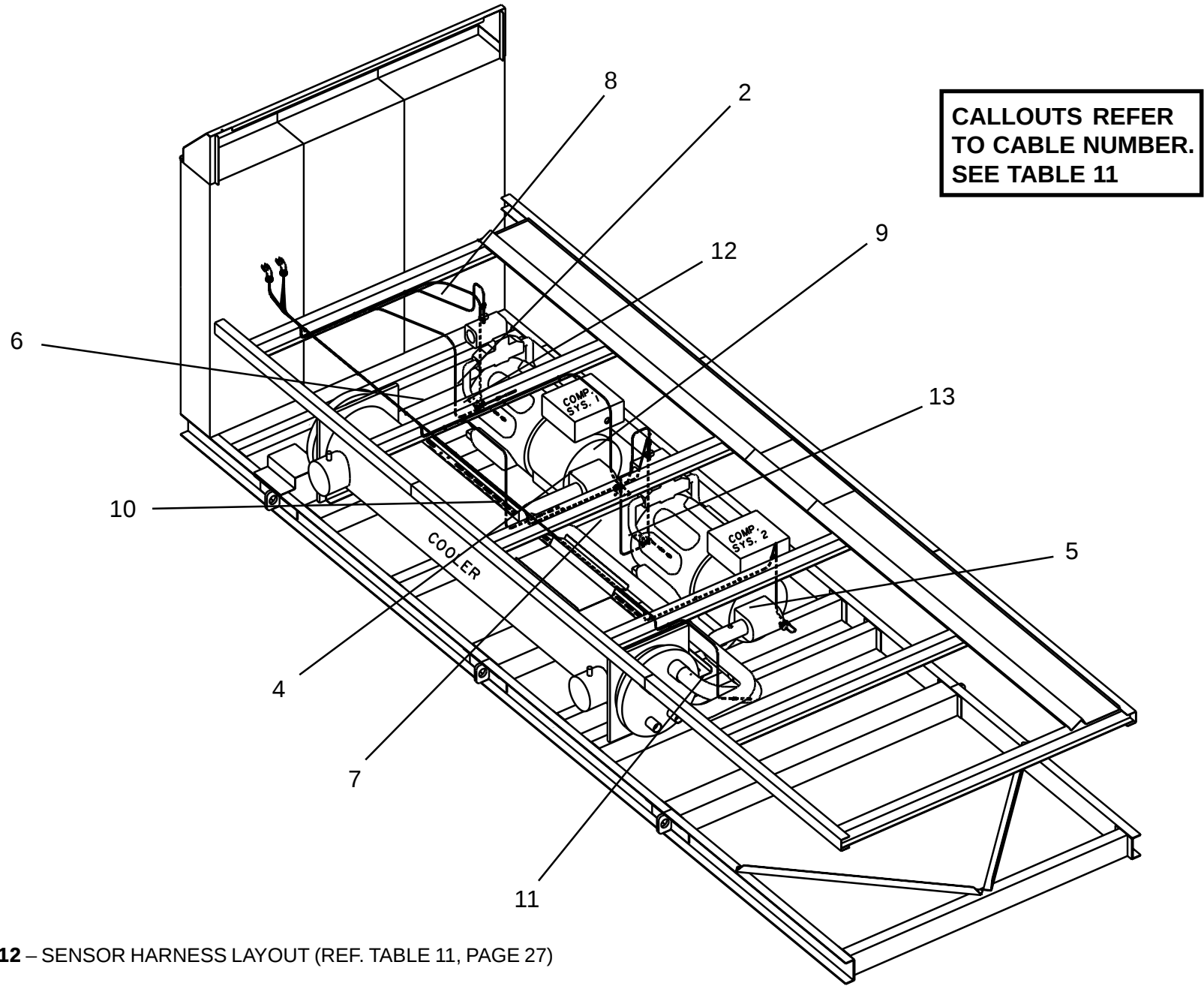
PINS: 025-28386-000

I/O EXPANSION AND MICROPROCESSOR
BOARD PLUGS AND PINS

Control Panel

LD06203

FIG. 11 – SENSOR HARNESS PLUGS AND PINS



SENSOR HARNESS (CONT'D)

FIG. 12 – SENSOR HARNESS LAYOUT (REF. TABLE 11, PAGE 27)

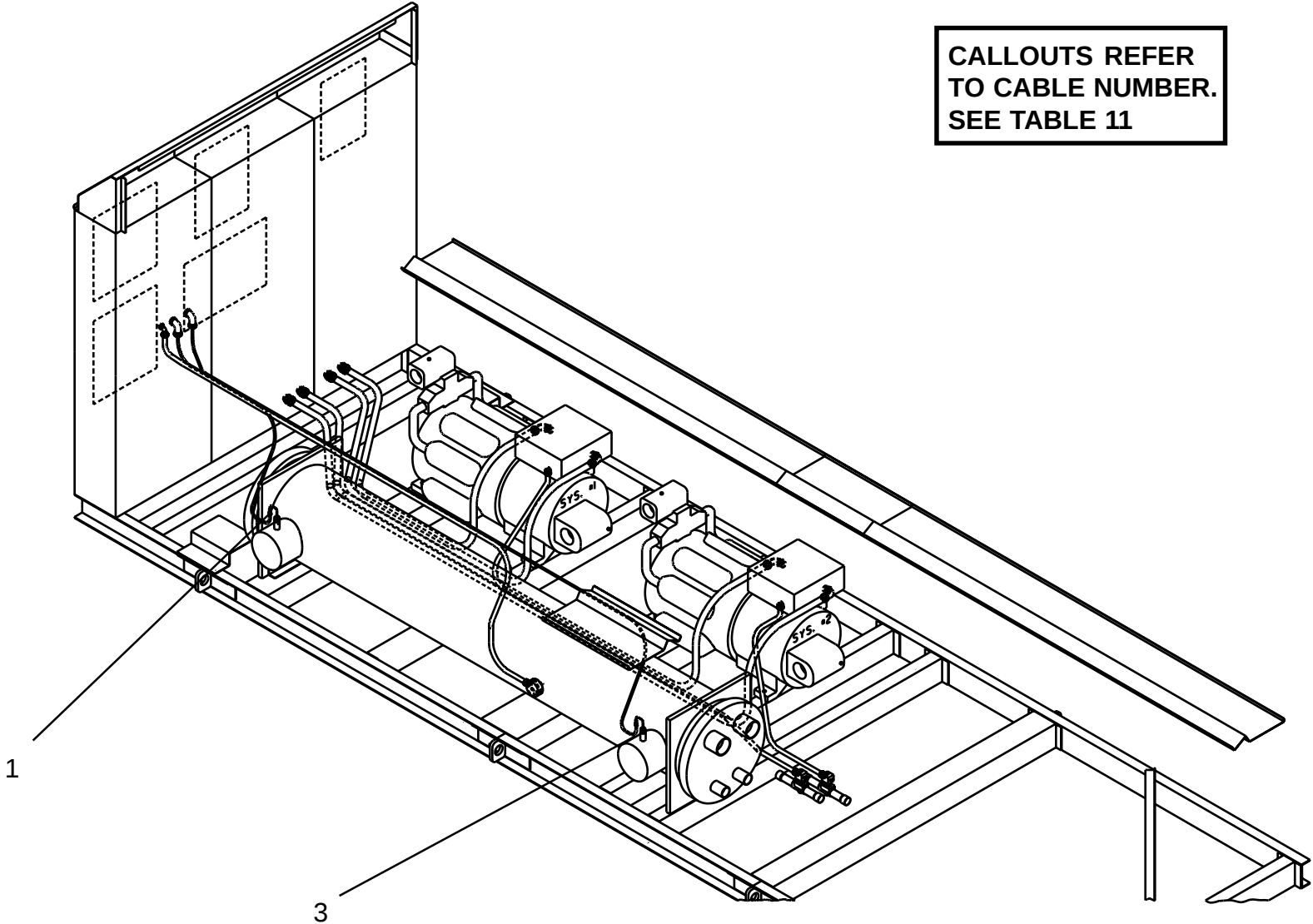


FIG. 13 – SENSOR HARNESS LAYOUT (REF. TABLE 11, PAGE 27)

Control Panel

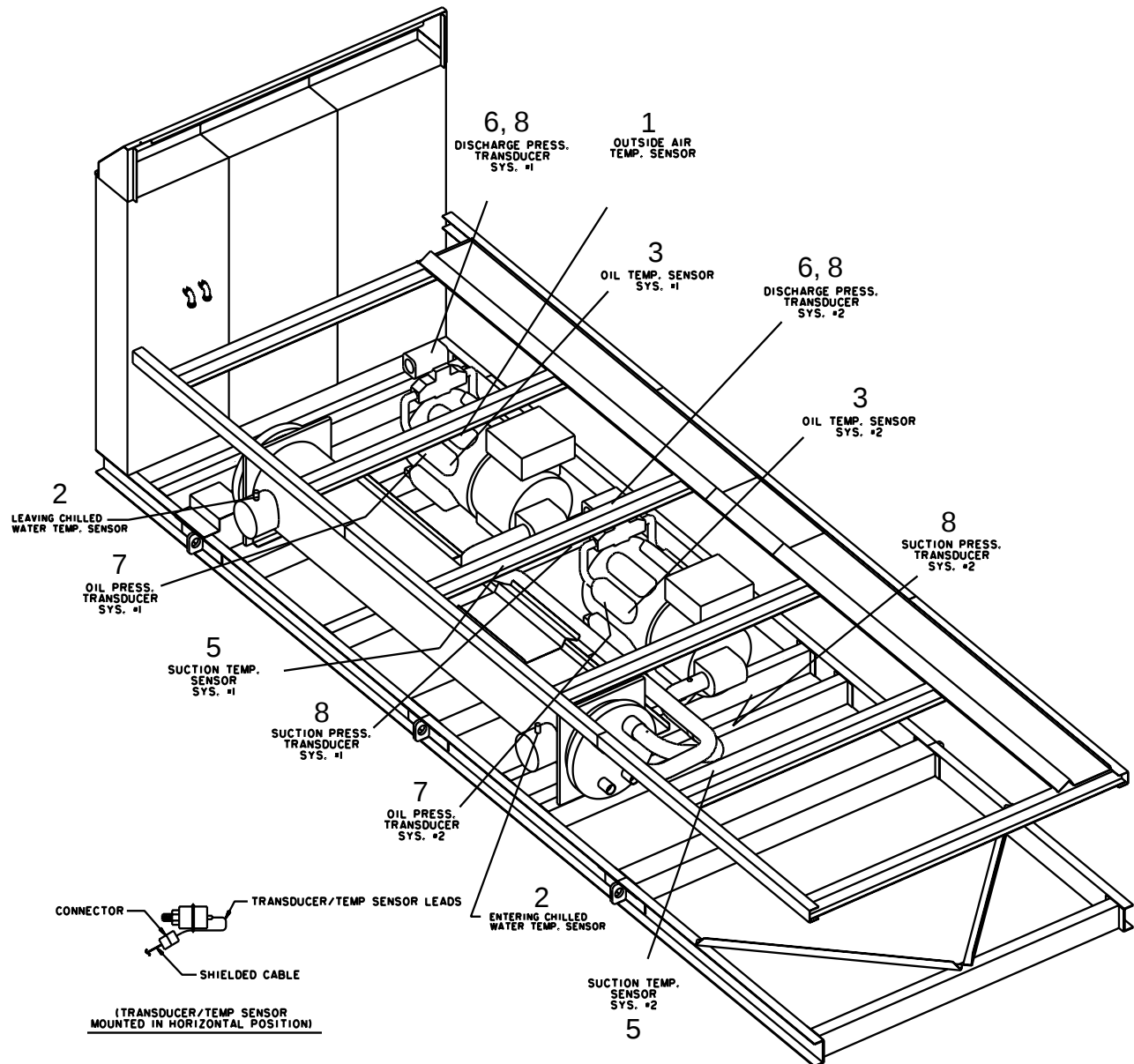
TRANSDUCERS AND TEMP SENSORS

TABLE 12 – TRANSDUCERS AND TEMP SENSORS (SEE FIG. 14, PAGE 31)

ITEM NUMBER	QUANTITY	SYSTEM	DESCRIPTION	VOLTAGE CODE	PART NUMBER
1 ^s	1	Unit	Sensor, Outside Air (Not Shown)	ALL	025-28663-001
2 ^s	2	Unit	Sensor, Water Temp.	ALL	025-29964-000
3 ^s	2	Unit	Sensor, Oil Temp.	ALL	025-32966-000
4 ^s	2	Unit	Sensor, Disc. Temp.	ALL	025-32925-000
5 ^s	2	Unit	Sensor, Suction Temp.	ALL	025-28935-000
6 ^s	2	1, 2	Switch, High Press. Cutout	ALL	025-30480-000
7 ^s	2	1, 2	Transducer 0-200 PSI	ALL	025-29583-000
8 ^s	4	1, 2	Transducer 0-400 PSI	ALL	025-29139-001
9	6	1, 2	Valve, Transducer (Use with Items 7 & 8) 1/4 MPT x 1/4 FPT	ALL	022-09503-000
10	4	1, 2	Valve, Charging (Oil, Refrig). 1/2 x 3/8 Flare (Not Shown)	ALL	022-01582-000
11	2	1, 2	Adapter, Mounting (Includes Item 12) (Use with Item 6)	ALL	023-00124-000
12	4	1, 2	O-Ring (Use with Item 11)	ALL	028-13540-000
13	6	1, 2	Bushing (Use with Items 7 and 8)	ALL	023-18052-000
14	1	Unit	Compound, Heat Conductive (Use with Item 2)	ALL	013-00898-000

^s Recommended Spare Part

TRANSDUCERS AND TEMP SENSORS (CONT'D)



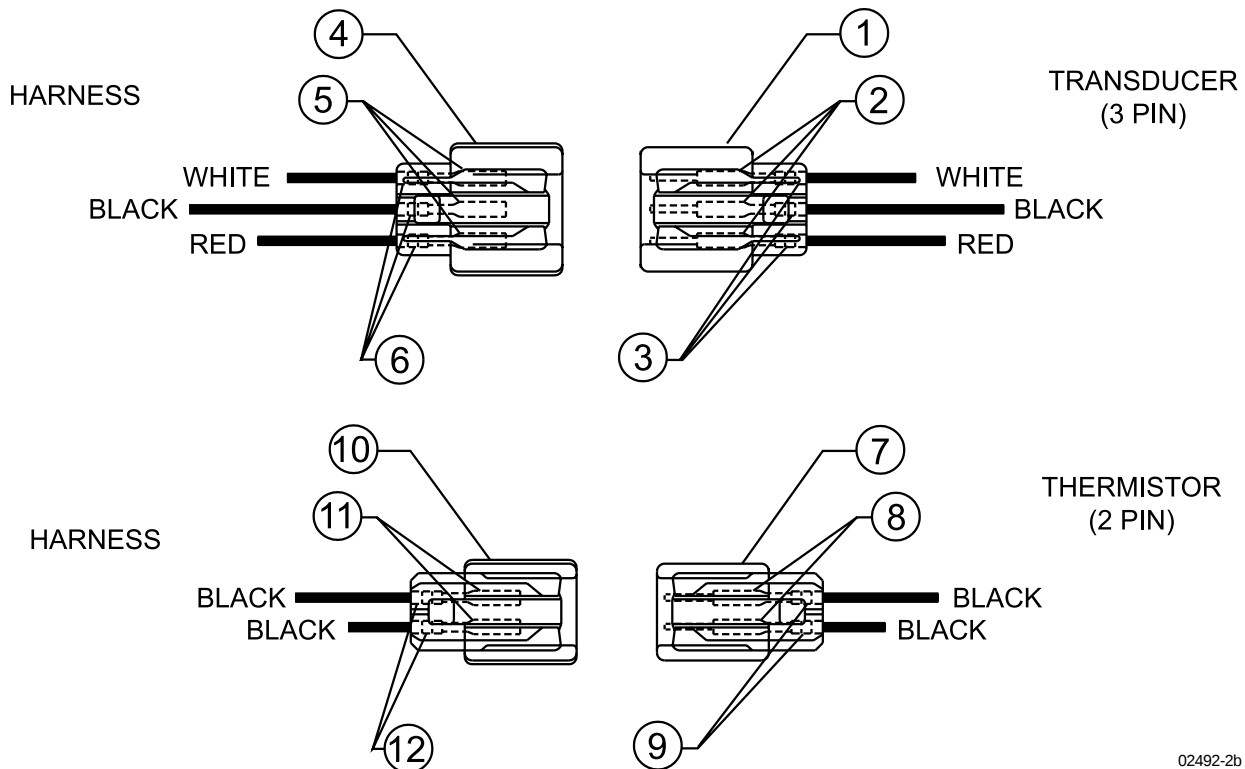
Control Panel

FIG. 14 – TRANSDUCERS AND TEMP SENSORS (REF. TABLE 12, PAGE 30)

TRANSDUCER AND TEMPERATURE SENSOR CABLE ENDS

TABLE 13 – TRANSDUCER AND TEMPERATURE SENSOR CABLE ENDS - (SEE FIG. 15)

ITEM NO.	TYPE	DESCRIPTION	# OF PINS	PART NUMBER
1	Transducer	Plug Connector	3 Pin	025-28953-000
2		Contact Pins		025-28949-000
3		Rubber Collar		025-28950-000
4	Transducer Wire Harness	Plug Connector	3 Pin	025-28954-000
5		Contact Pins		025-28952-000
6		Rubber Collar		025-28950-000
7	Thermistor	Plug Connector	2 Pin	025-28948-000
8		Contact Pins		025-28949-000
9		Rubber Collar		025-28950-000
10	Thermistor Wire Harness	Plug Connector	2 Pin	025-28951-000
11		Contact Pins		025-28952-000
12		Rubber Collar		025-28950-000



02492-2b

FIG. 15 – TRANSDUCER AND TEMPERATURE SENSOR CABLE ENDS (REF. TABLE 13)

This page intentionally left blank

POWER PANEL IDENTIFIERS - ACROSS-THE-LINE

TABLE 14 – POWER PANEL IDENTIFIERS (TO IDENTIFY REPLACEMENT PART NUMBERS, SELECT PANEL IDENTIFIER NUMBER BELOW, THEN REFER TO THE HI-LIGHTED ROW ON THE 'POWER PANEL COMPONENTS-ACROSS THE LINE' TABLES ON PAGES 36 - 38 AND FIG. 16, PAGE 35, TO LOCATE POWER PANEL COMPONENT BREAK DOWN PART NUMBERS).

Model	Power Panel with Terminal Blocks	Power Panel with Separate System Circuit Breakers	Power Panel with Separate System NF Disconnect Switches
	Panel Number	Panel Number	Panel Number
YCAR0315SC-50X	371-02479-102	371-02479-202	371-02479-302
YCAR0345SC-50X	371-02479-105	371-02479-207	371-02479-304
YCAR0365SC-50X	371-02479-107	371-02479-209	371-02479-305
YCAR0385SC-50X	371-02479-107	371-02479-209	371-02479-305***
YCAR0415SC-50X	371-02479-107	371-02479-209	371-02479-306
YCAR0435SC-50X	371-02479-107	371-02479-209	371-02479-306
YCAR0485SC-50X	371-02479-108*	371-02479-212	371-02479-307****
YCAR0525SC-50X	371-02479-109**	371-02479-212	371-02479-308
YCAR0575SC-50X	371-02479-115	371-02479-219	371-02479-311
YCAR0645SC-50X	371-02479-119	371-02479-222	371-02479-314
YCAR0685SC-50X	371-02479-119	371-02479-222	371-02479-314

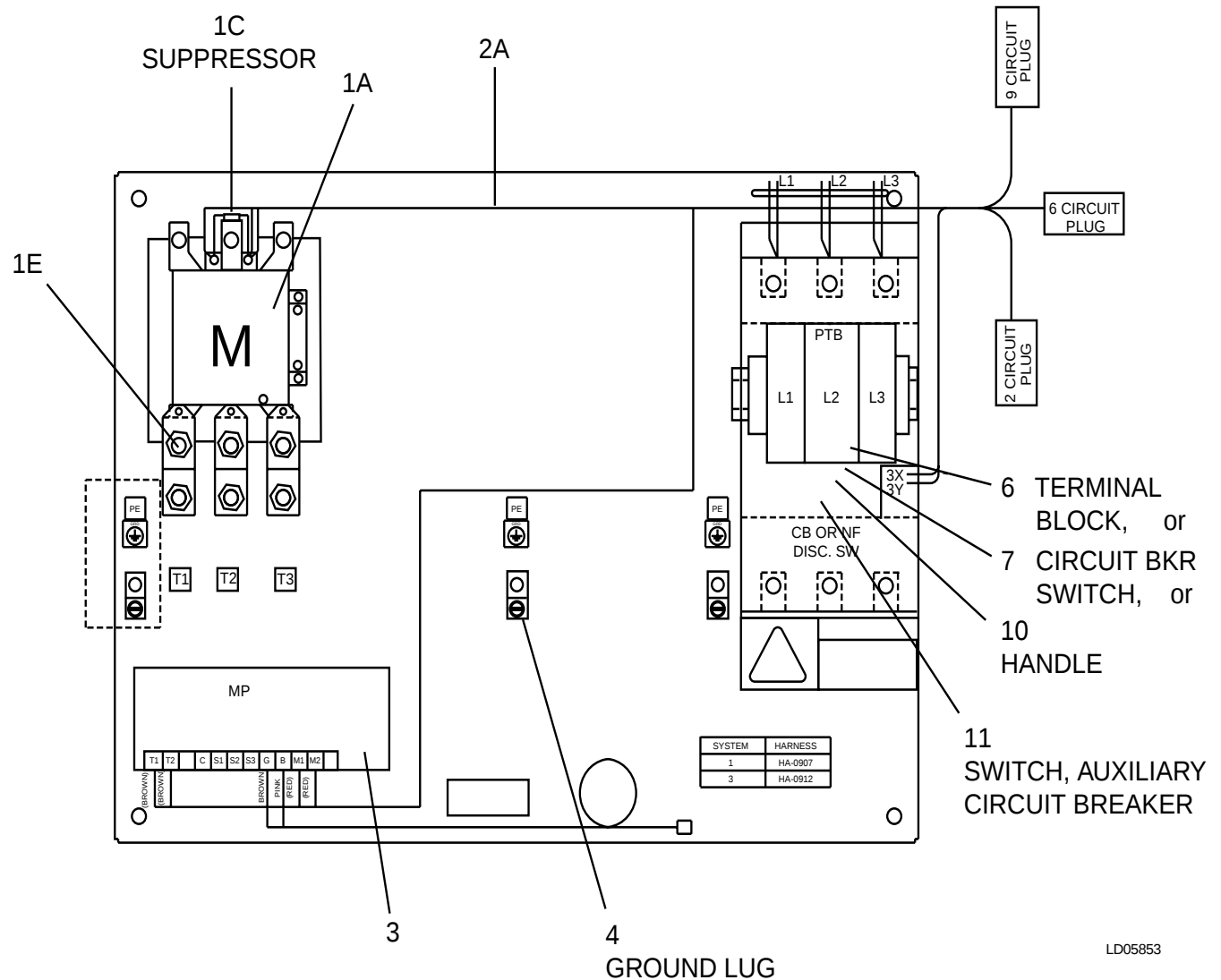
* With High Head Fans use Panel Number 371-02479-126

** With High Head Fans use Panel Number 371-02479-127

*** With High Head Fans use Panel Number 371-02479-322

**** With High Head Fans use Panel Number 371-02479-323

POWER PANEL COMPONENTS - ACROSS-THE-LINE

**SERVICE NOTE:**

MP Terminals B & G are polarity sensitive.

FIG. 16 – ACROSS-THE-LINE POWER PANEL, TYPICAL LAYOUT (REF. ‘POWER PANEL COMPONENTS-ACROSS THE LINE’ TABLE, PAGES 36 - 38)

Power Panel

ITEM	DESCRIPTION	QTY.	371-02479-102	371-02479-105	371-02479-107	371-02479-108	371-02479-109	371-02479-115
1A	Contactora (Sys.1)	1	024-31639-000	024-31639-000	024-26577-000	024-26577-000	024-31642-000	024-31638-000
	Contactora (Sys.2)	1	024-31639-000	024-26577-000	024-26577-000	024-31642-000	024-31642-000	024-31638-000
1C	Surge Suppressor	2	031-00808-000	031-00808-000	031-00808-000	031-00808-000	031-00808-000	031-00808-000
1E	Lugs, Contactora	2	025-34088-000	025-34088-000	025-34088-000	025-34088-000	025-34089-000	025-34089-000
2A	120V Harness	2	071-02625-000	071-02625-000	071-02625-000	071-02625-000	071-02625-000	071-02625-000
3 ^s	Motor Protector	2	024-30907-000	024-30907-000	024-30907-000	024-30907-000	024-30907-000	024-30907-000
4	Ground Lug	1	025-34088-000	025-34088-000	025-34089-000	025-34089-000	025-34089-000	025-34085-000
5	Ground Lug	1	025-34088-000	025-34089-000	025-34089-000	025-34089-000	025-34089-000	025-34085-000
6	Terminal Block (Sys.1)	3	025-34482-000	025-34482-000	025-34454-000	025-34454-000	025-34454-000	025-34408-000
	Terminal Block (Sys.2)	3	025-34482-000	025-34454-000	025-34454-000	025-34454-000	025-34454-000	025-34408-000
7	Circuit Breaker	—	—	—	—	—	—	—
	Circuit Breaker	—	—	—	—	—	—	—
8	NF Disc Switch	—	—	—	—	—	—	—
	NF Disc Switch	—	—	—	—	—	—	—
10	Operator Mech.	—	—	—	—	—	—	—
11	Sw. C/B Aux.2A/2B	—	—	—	—	—	—	—

^s= Recommended Spare Parts

ITEM	DESCRIPTION	QTY.	371-02479-119	371-02479-126	371-02479-127	371-02479-202	371-02479-207	371-02479-209
1A	Contactora (Sys.1)	1	024-31643-000	024-26577-000	024-31642-000	024-31639-000	024-31639-000	024-26577-000
	Contactora (Sys.2)	1	024-31643-000	024-31642-000	024-31642-000	024-31639-000	024-26577-000	024-26577-000
1C	Surge Suppressor	2	031-00808-000	031-00808-000	031-00808-000	031-00808-000	031-00808-000	031-00808-000
1E	Lugs, Contactora	2	025-34089-000	025-34088-000	025-34089-000	025-34088-000	025-34089-000	025-34088-000
2A	120V Harness	2	071-02625-000	071-02625-000	071-02625-000	071-02625-000	071-02625-000	071-02625-000
3 ^s	Motor Protector	2	024-30907-000	024-30907-000	024-30907-000	024-30907-000	024-30907-000	024-30907-000
4	Ground Lug	1	025-34087-000	025-34089-000	025-34089-000	025-34089-000	025-34088-000	025-34085-000
5	Ground Lug	1	025-34087-000	025-34089-000	025-34089-000	025-34089-000	025-34088-000	025-34085-000
6	Terminal Block (Sys.1)	3	025-34405-000	025-34454-000	025-34454-000	—	—	—
	Terminal Block (Sys.2)	3	025-34405-000	025-34454-000	025-34454-000	—	—	—
7	Circuit Breaker (Sys.1)	1	—	—	—	024-31649-000	024-31649-000	025-34419-000
	Circuit Breaker (Sys.2)	1	—	—	—	024-31649-000	025-34419-000	025-34419-000
8	NF Disc Switch	—	—	—	—	—	—	—
	NF Disc Switch	—	—	—	—	—	—	—
10	Operator Mech.	2	—	—	—	025-34417-000	025-34417-000	025-34417-000
11	Sw. C/B Aux.2A/2B	2	—	—	—	024-31646-000	024-31646-000	024-31646-000

^s= Recommended Spare Parts**Note:** Highlighted numbers refer to Panel Identifiers shown on page 34.

ITEM	DESCRIPTION	QTY.	371-02479-212	371-02479-213	371-02479-219	371-02479-222	371-02479-302	371-02479-304
1A	Contactors (Sys.1)	1	024-26577-000	024-31642-000	024-31638-000	024-31643-000	024-31639-000	024-31639-000
	Contactors (Sys.2)	1	024-31642-000	024-31642-000	024-30638-000	024-31643-000	024-31639-000	024-26577-000
1C	Surge Suppressor	2	031-00808-000	031-00808-000	031-00808-000	031-00808-000	031-00808-000	031-00808-000
1E	Lugs, Contactors	2	025-34089-000	025-34085-000	025-34089-000	025-34089-000	025-34088-000	025-34089-000
2A	120V Harness	2	071-02625-000	071-02625-000	071-02625-000	071-02625-000	071-02625-000	071-02625-000
3^s	Motor Protector	2	024-30907-000	024-30907-000	024-30907-000	024-30907-000	024-30907-000	024-30907-000
4	Ground Lug	1	025-34088-000	025-34089-000	025-34085-000	025-34085-000	025-34089-000	025-34088-000
5	Ground Lug	1	025-34089-000	025-34089-000	025-34085-000	025-34085-000	025-34089-000	025-34088-000
6	Terminal Block (Sys.1)	—	—	—	—	—	—	—
	Terminal Block (Sys.2)	—	—	—	—	—	—	—
7	Circuit Breaker (Sys.1)	1	025-34419-000	025-34419-000	025-34424-000	025-34424-000	—	—
	Circuit Breaker (Sys.2)	1	025-34419-000	025-34419-000	025-34424-000	025-34424-000	—	—
8	NF Disc Switch (Sys.1)	—	—	—	—	—	024-31888-000	024-31888-000
	NF Disc Switch (Sys.2)	—	—	—	—	—	024-31888-000	024-31888-000
10	Operator Mech.	2	025-34417-000	025-34417-000	025-34417-000	025-34417-000	025-34417-000	025-34417-000
11	Sw. C/B Aux.2A/2B	2	024-31646-000	024-31646-000	024-31646-000	024-31646-000	024-31646-000	024-31646-000

^s = Recommended Spare Parts

ITEM	DESCRIPTION	QTY.	371-02479-305	371-02479-306	371-02479-307	371-02479-308	371-02479-311	371-02479-314
1A	Contactors (Sys.1)	1	024-26577-000	024-26577-000	024-26577-000	024-31642-000	024-31638-000	024-31643-000
	Contactors (Sys.2)	1	024-26577-000	024-26577-000	024-31642-000	024-31642-000	024-31638-000	024-31643-000
1C	Surge Suppressor	2	031-00808-000	031-00808-000	031-00808-000	031-00808-000	031-00808-000	031-00808-000
1E	Lugs, Contactors	2	025-34089-000	025-34089-000	025-34089-000	025-34089-000	025-34089-000	025-34089-000
2A	120V Harness	2	071-02625-000	071-02625-000	071-02625-000	071-02625-000	071-02625-000	071-02625-000
3^s	Motor Protector	2	024-30907-000	024-30907-000	024-30907-000	024-30907-000	024-30907-000	024-30907-000
4	Ground Lug	1	025-34088-000	025-34088-000	025-34088-000	025-34085-000	025-34085-000	025-34085-000
5	Ground Lug	1	025-34088-000	025-34088-000	025-34085-000	025-34085-000	025-34085-000	025-34085-000
6	Terminal Block (Sys.1)	—	—	—	—	—	—	—
	Terminal Block (Sys.2)	—	—	—	—	—	—	—
7	Circuit Breaker (Sys.1)	—	—	—	—	—	—	—
	Circuit Breaker (Sys.2)	—	—	—	—	—	—	—
8	NF Disc Switch (Sys.1)	1	024-31888-000	024-25565-000	024-31888-000	024-25565-000	024-25565-000	024-25564-000
	NF Disc Switch (Sys.2)	1	024-31888-000	024-25565-000	024-25565-000	024-25565-000	024-25565-000	024-25564-000
10	Operator Mech.	2	025-34417-000	025-34417-000	025-34417-000	025-34417-000	025-34417-000	025-34417-000
11	Sw. C/B Aux.2A/2B	2	024-31646-000	024-31646-000	024-31646-000	024-31646-000	024-31646-000	024-31646-000

^s = Recommended Spare Parts**Note:** Highlighted numbers refer to Panel Identifiers shown on page 34.

ITEM	DESCRIPTION	QTY.	371-02479-322	371-02479-323
1A	Contactor (Sys. 1)	1	024-26577-000	024-26577-000
	Contactor (Sys. 2)	1	024-26577-000	024-31642-000
1C	Surge Suppressor	2	031-00808-000	031-00808-000
1E	Lugs, Contactor	2	025-34089-000	025-34089-000
2A	120V Harness	2	071-02625-000	071-02625-000
3 ^s	Motor Protector	2	024-30907-000	024-30907-000
4	Ground Lug	1	025-34088-000	025-34088-000
5	Ground Lug	1	025-34088-000	025-34085-000
6	Terminal Block	—	—	—
	Terminal Block	—	—	—
7	Circuit Breaker	—	—	—
	Circuit Breaker	—	—	—
8	NF Disc Switch (Sys. 1)	1	024-31888-000	024-31888-000
	NF Disc Switch (Sys. 2)	1	024-31888-000	024-25565-000
10	Operator Mech.	2	025-34417-000	025-34417-000
11	Sw. C/B Aux.2A/2B	2	024-31646-000	024-31646-000

^s= Recommended Spare Parts

Note: Highlighted numbers refer to Panel Identifiers shown on page 34.

This page intentionally left blank

POWER PANEL IDENTIFIERS - PART WIND

TABLE 15 – POWER PANEL IDENTIFIERS (TO IDENTIFY REPLACEMENT PART NUMBERS, SELECT PANEL IDENTIFIER NUMBER BELOW, THEN REFER TO THE HI-LIGHTED ROW ON THE 'POWER PANEL COMPONENTS-PART WIND' TABLES ON PAGES 42 - 43 AND FIG. 17, PAGE 41, TO LOCATE POWER PANEL COMPONENT BREAK DOWN PART NUMBERS).

Model	Power Panel with Terminal Blocks	Power Panel with Separate System Circuit Breakers	Power Panel with Separate System NF Disconnect Switches
	Panel Number	Panel Number	Panel Number
YCAR0315-50P	371-02460-101	371-02460-201	371-02460-301
YCAR0345-50P	371-02460-102	371-02460-204	371-02460-301
YCAR0365-50P	371-02460-103	371-02460-205	371-02460-301
YCAR0385-50P	371-02460-103	371-02460-205	371-02460-301***
YCAR0415-50P	371-02460-103	371-02460-205	371-02460-302
YCAR0435-50P	371-02460-103	371-02460-205	371-02460-302
YCAR0485-50P	371-02460-105*	371-02460-209	371-02460-304****
YCAR0525-50P	371-02460-108**	371-02460-211	371-02460-306
YCAR0575-50P	371-02460-106	371-02460-212	371-02460-306
YCAR0645-50P	371-02460-115	371-02460-217	371-02460-310
YCAR0685-50P	371-02460-115	371-02460-217	371-02460-310

* With High Head Fans use Panel Number 371-02460-132

** With High Head Fans use Panel Number 371-02460-106

*** With High Head Fans use Panel Number 371-02460-328

**** With High Head Fans use Panel Number 371-02460-306

POWER PANEL COMPONENTS - PART WIND

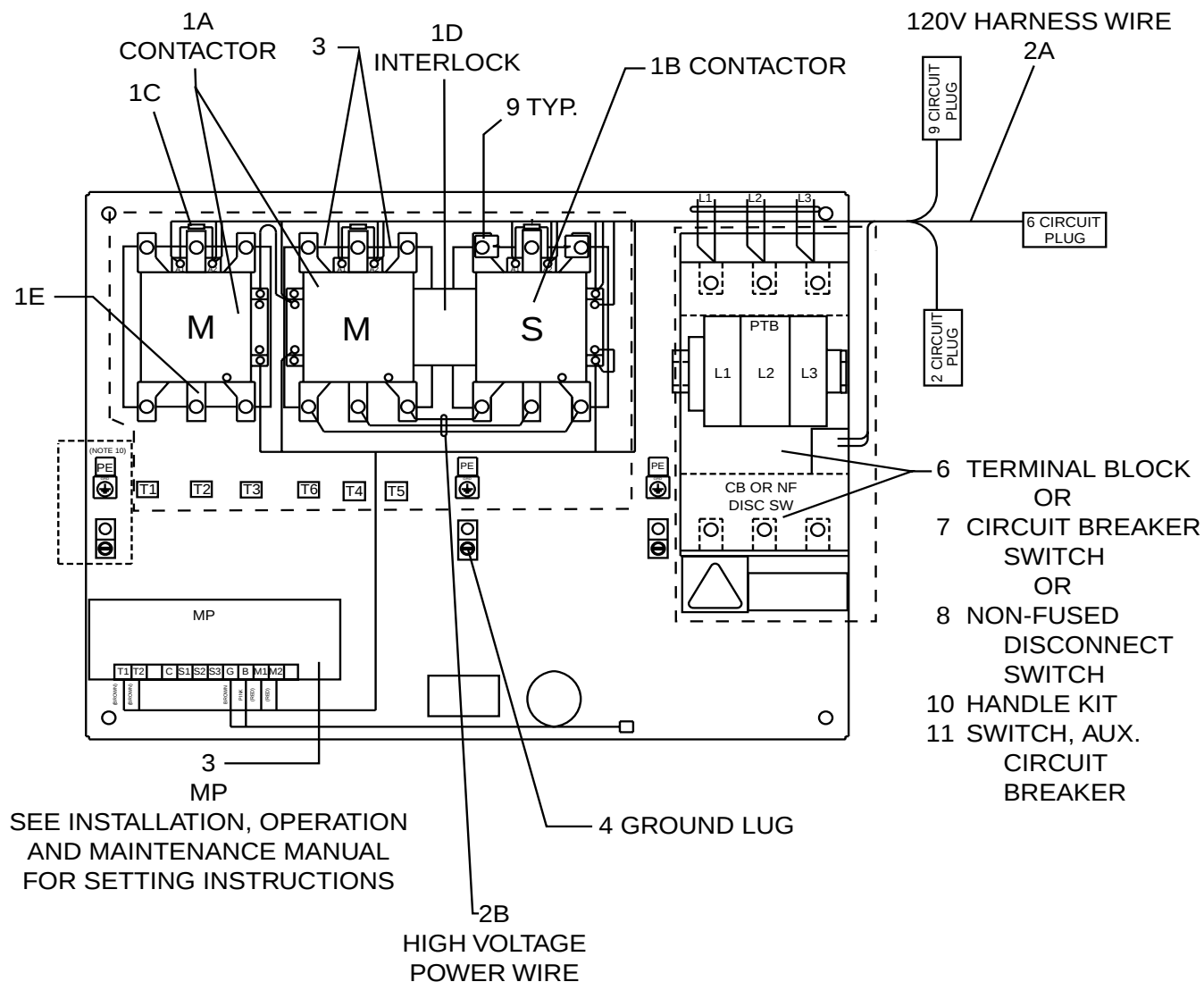


FIG. 17 – POWER PANEL COMPONENTS - PART WIND (REF. ‘POWER PANEL COMPONENTS- ‘PART WIND’” TABLE, PAGES 42 - 43).

ITEM	DESCRIPTION	SYS.	QTY.	371-02460-101	371-02460-102	371-02460-103	371-02460-105	371-02460-106	371-02460-108
1A	Contactor	1	2	024-31603-000	024-31603-000	024-31603-000	024-31639-000	024-31639-000	024-31639-000
		2	2	024-31603-000	024-31603-000	024-31603-000	024-31603-000	024-31603-000	024-31639-000
1C	Surge Suppressor	Both	4	031-00808-000	031-00808-000	031-00808-000	031-00808-000	031-00808-000	031-00808-000
1D	Mech Interlock	—	—	—	—	—	—	—	—
		—	—	—	—	—	—	—	—
1E	Lugs, Contactor	Both	2	025-34088-000	025-34088-000	025-34088-000	025-34088-000	025-34088-000	025-34088-000
2A	120V Harness	1	1	071-02694-000	071-02695-000	071-02694-000	071-02694-000	071-02694-000	071-02694-000
2B	120V Harness	2	1	071-02695-000	071-02694-000	071-02695-000	071-02695-000	071-02695-000	071-02695-000
3 ^s	Motor Protector	Both	2	024-30907-000	024-30907-000	024-30907-000	024-30907-000	024-30907-000	024-30907-000
4	Ground Lug	Both	1	025-34088-000	025-34088-000	025-34089-000	025-34089-000	025-34089-000	025-34089-000
5	Ground Lug	Both	1	025-34088-000	025-34089-000	025-34089-000	025-34089-000	025-34089-000	025-34089-000
6	Terminal Block	1	3	025-34482-000	025-34482-000	025-34454-000	025-34454-000	025-34454-000	025-34454-000
		2	3	025-34482-000	025-34454-000	025-34454-000	025-34454-000	025-34454-000	025-34454-000
7	Circuit Breaker	—	—	—	—	—	—	—	—
		—	—	—	—	—	—	—	—
8	NF Disc Switch	—	—	—	—	—	—	—	—
		—	—	—	—	—	—	—	—
10	Operator Mech.	—	—	—	—	—	—	—	—
11	Sw. C/B Aux.2A/2B	—	—	—	—	—	—	—	—

ITEM	DESCRIPTION	SYS.	QTY.	371-02460-115	371-02460-132	371-02460-201	371-02460-204	371-02460-205	371-02460-209
1A	Contactor	1	2	024-26577-000	024-31639-000	024-31603-000	024-31603-000	024-31603-000	024-31639-000
		2	2	024-26577-000	024-31603-000	024-31603-000	024-31603-000	024-31603-000	024-31603-000
1C	Surge Suppressor	Both	4	031-00808-000	031-00808-000	031-00808-000	031-00808-000	031-00808-000	031-00808-000
1D	Mech Interlock	—	—	—	—	—	—	—	—
		—	—	—	—	—	—	—	—
1E	Lugs, Contactor	Both	2	025-34088-000	025-34088-000	025-34088-000	025-34088-000	025-34088-000	025-34088-000
2A	120V Harness	1	1	071-02694-000	071-02694-000	071-02695-000	071-02695-000	071-02694-000	071-02694-000
2B	120V Harness	2	1	071-02695-000	071-02695-000	071-02694-000	071-02694-000	071-02695-000	071-02695-000
3 ^s	Motor Protector	Both	2	024-30907-000	024-30907-000	024-30907-000	024-30907-000	024-30907-000	024-30907-000
4	Ground Lug	Both	1	025-34087-000	025-34085-000	025-34089-000	025-34089-000	025-34085-000	025-34085-000
5	Ground Lug	Both	1	025-34087-000	025-34089-000	025-34089-000	025-34085-000	025-34085-000	025-34085-000
6	Terminal Block	1	3	025-34405-000	025-34408-000	—	—	—	—
		2	3	025-34405-000	025-34454-000	—	—	—	—
7	Circuit Breaker	—	—	—	—	024-31649-000	024-31649-000	025-34419-000	025-34419-000
		—	—	—	—	024-31649-000	025-34419-000	025-34419-000	025-34419-000
8	NF Disc Switch	—	—	—	—	—	—	—	—
		—	—	—	—	—	—	—	—
10	Operator Mech.	—	—	—	—	025-34417-000	025-34417-000	025-34417-000	025-34417-000
11	Sw. C/B Aux.2A/2B	—	—	—	—	024-31646-000	024-31646-000	024-31646-000	024-31646-000

^s = Recommended Spare Parts

Note: Highlighted numbers refer to Panel Identifiers shown on page 40.

POWER PANEL COMPONENTS - PART WIND (CONT'D)

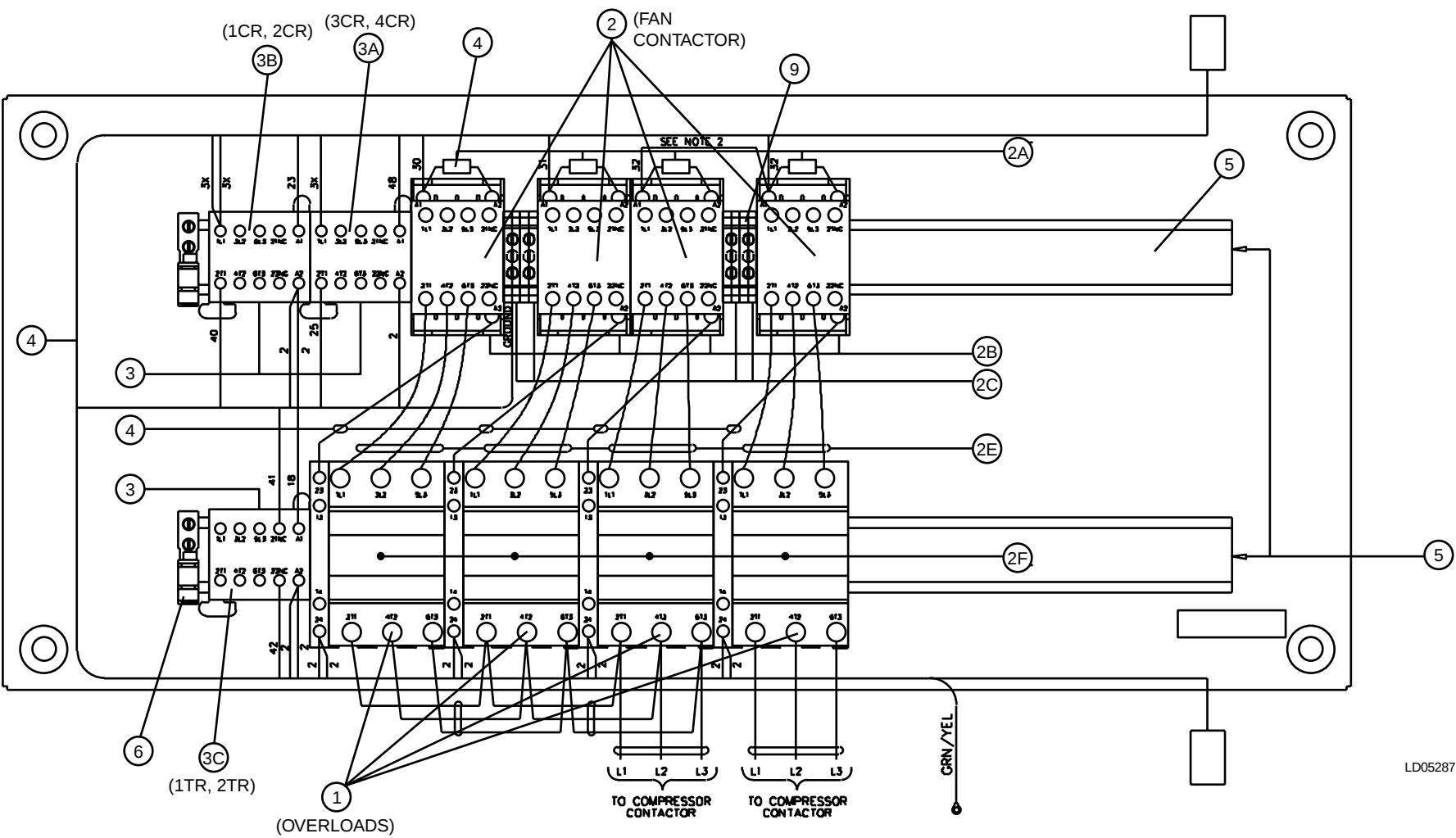
ITEM	DESCRIPTION	SYS.	QTY.	371-02460-211	371-02460-212	371-02460-217	371-02460-301	371-02460-302	371-02460-304
1A	Contactor	1	2	024-31639-000	024-31639-000	024-26577-000	024-31603-000	024-31603-000	024-31639-000
		2	2	024-31693-000	024-31639-000	024-26577-000	024-31603-000	024-26577-000	024-31603-000
1C	Surge Suppressor	Both	4	031-00808-000	031-00808-000	031-00808-000	031-00808-000	031-00808-000	031-00808-000
1D	Mech Interlock		—	—	—	—	—	—	—
			—	—	—	—	—	—	—
1E	Lugs, Contactor	Both	2	025-34088-000	025-34088-000	025-34089-000	025-34088-000	025-34088-000	025-34088-000
2A	120V Harness	1	1	071-02694-000	071-02694-000	071-02694-000	071-02694-000	071-02694-000	071-02694-000
2B	120V Harness	2	1	071-02695-000	071-02695-000	071-02695-000	071-02695-000	071-02695-000	071-02695-000
3^s	Motor Protector	Both	2	024-30907-000	024-30907-000	024-30907-000	024-30907-000	024-30907-000	024-30907-000
4	Ground Lug	Both	1	025-34085-000	025-34455-000	025-34455-000	025-34089-000	025-34085-000	025-34085-000
5	Ground Lug	Both	1	025-34085-000	025-34085-000	025-34085-000	025-34089-000	025-34085-000	025-34089-000
6	Terminal Block		—	—	—	—	—	—	—
			—	—	—	—	—	—	—
7	Circuit Breaker	1	1	025-34419-000	025-34424-000	025-34424-000	—	—	—
		2	1	025-34419-000	025-34424-000	025-34424-000	—	—	—
8	NF Disc Switch	1	1	—	—	—	024-31888-000	024-25565-000	024-25565-000
		2	1	—	—	—	024-31888-000	024-25565-000	024-31888-000
10	Operator Mech.	Both	2	025-34417-000	025-34417-000	025-34417-000	025-34417-000	025-34417-000	025-34417-000
11	Sw. C/B Aux.2A/2B	Both	2	024-31646-000	024-31646-000	024-31646-000	024-31646-000	024-31646-000	024-31646-000

ITEM	DESCRIPTION	SYS.	QTY.	371-02460-306	371-02460-310	371-02460-328
1A	Contactor	1	2	024-31639-000	024-26577-000	024-31603-000
		2	2	024-31639-000	024-26577-000	024-31603-000
1C	Surge Suppressor	Both	4	031-00808-000	031-00808-000	031-00808-000
1D	Mech Interlock		—	—	—	—
			—	—	—	—
1E	Lugs, Contactor	Both	12	025-34088-000	025-34089-000	025-34088-000
2A	120V Harness	1	1	071-02694-000	071-02694-000	071-02694-000
2B	120V Harness	2	1	071-02695-000	071-02695-000	071-02695-000
3^s	Motor Protector	Both	2	024-30907-000	024-30907-000	024-30907-000
4	Ground Lug	Both	2	025-34085-000	025-34085-000	025-34089-000
5	Ground Lug	Both	2	025-34085-000	025-34085-000	025-34085-000
6	Terminal Block		—	—	—	—
			—	—	—	—
7	Circuit Breaker		—	—	—	—
			—	—	—	—
8	NF Disc Switch	1	1	024-25565-000	024-25564-000	024-31888-000
		2	1	024-25565-000	024-25564-000	024-25564-000
10	Operator Mech.	Both	2	025-34417-000	025-34417-000	025-34417-000
11	Sw. C/B Aux.2A/2B	Both	2	024-31646-000	024-31646-000	024-31646-000

^s = Recommended Spare Parts

Note: Highlighted numbers refer to Panel Identifiers shown on page 40.

4 FAN CONTACTOR PANEL (All other Contactor Panels similar)



LD05287

FIG. 18 – 4 FAN CONTACTOR PANEL (REF. TABLE 16, PAGE 45)

4 FAN CONTACTOR PANEL COMPONENTS (CONT'D)

(All other Contactor Panels similar)

TABLE 16 – 4 FAN CONTACTOR PANEL COMPONENTS – YCAR
(SEE FIG. 18, PAGE 44)

ITEM	LEGEND	DESCRIPTION	YORK PART NO.	QTY*
1	9 OL - 20 OL	6.3 A OVERLOAD	025-34449-000	4
		9.0 A OVERLOAD	025-34446-000	4
2	9M - 20M	FAN CONTACTOR 380-575V	025-34448-000	4
		FAN CONTACTOR 200-230V	025-34445-000	4
3	1, 2CR	COMP HTR RELAY	024-31635-000	1
4		SURGE SUPPRESSOR	031-02202-000	4
5		DIN RAIL SLOTTED	025-29167-000	0.5
6		END CLAMP	025-34439-000	2
7		14AWG BLK 600V 1	025-08897-000	8
8		FAN PNL PWR-WIRE	071-02809-000	2
		FAN PNL PWR-WIRE	071-02811-000	2
9		PH TERM USLKG2.5	025-34447-000	4

*** Note:** 4 Fan Panel Assembly is shown. Adjust quantities for 3, 5 and 6 fan assemblies as needed.

OPTION AND POWER PANEL CONFIGURATIONS

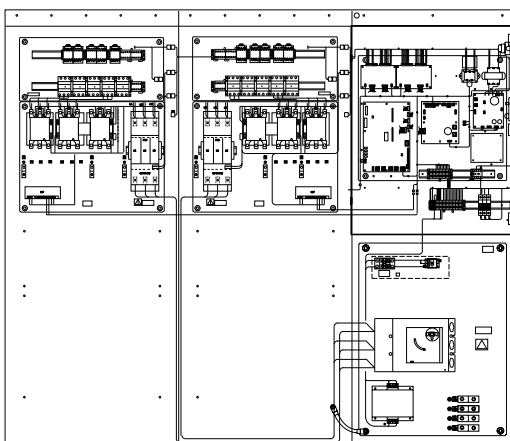
Power panels and option panels are offered in several configurations using three (3) major components:

1. TERMINAL BLOCKS -
2. CIRCUIT BREAKER SWITCH -
3. NF (Non Fused) DISCONNECT SWITCH -

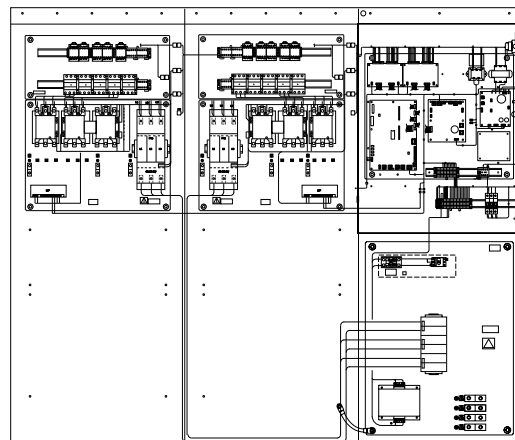
The most basic chiller power wiring configuration uses terminal blocks in the power panel, and an option panel with no power wire termination hardware. See figures below. The model number pin number locations 16 and 17 would be X and X to reflect this basic combination. Identify pin number locations 16 and 17 to identify the chiller power wiring connections and hardware listed below.

PIN 16 & 17 LETTER CODE IDENTIFIERS		POWER PANEL AND OPTION PANEL CONFIGURATION
X	X	Terminal Blocks for each system in power panel; no options in option panel
M	D	NF disconnect switch for each system in power panel; no options in option panel
M	B	Circuit Breaker switch for each system in power panel; no options in option panel
S	X	Terminal Blocks for each system in power panel; SP terminal block in option panel
S	D	NF disconnect switch for each system in power panel; SP NF disc switch in option panel
S	B	Circuit Breaker switch for each system in power panel; SP terminal block in option panel
D	B	Circuit Breaker switch for each system in power panel; SP NF disc switch in option panel
S	S	NF disconnect switch for each system in power panel; SP terminal block in option panel
B	X	Circuit Breaker switch for each system in power panel; SP circuit breaker in option panel
C	S	NF disconnect switch for each system in power panel; SP circuit breaker in option panel

Examples of power wiring configurations:



(Chiller PIN Code BX, CS, DB or SD)



(Chiller PIN Code SB, SS or SX)

202649-1b

FIG. 19 – POWER WIRING CONFIGURATIONS

OPTION PANEL COMPONENTS

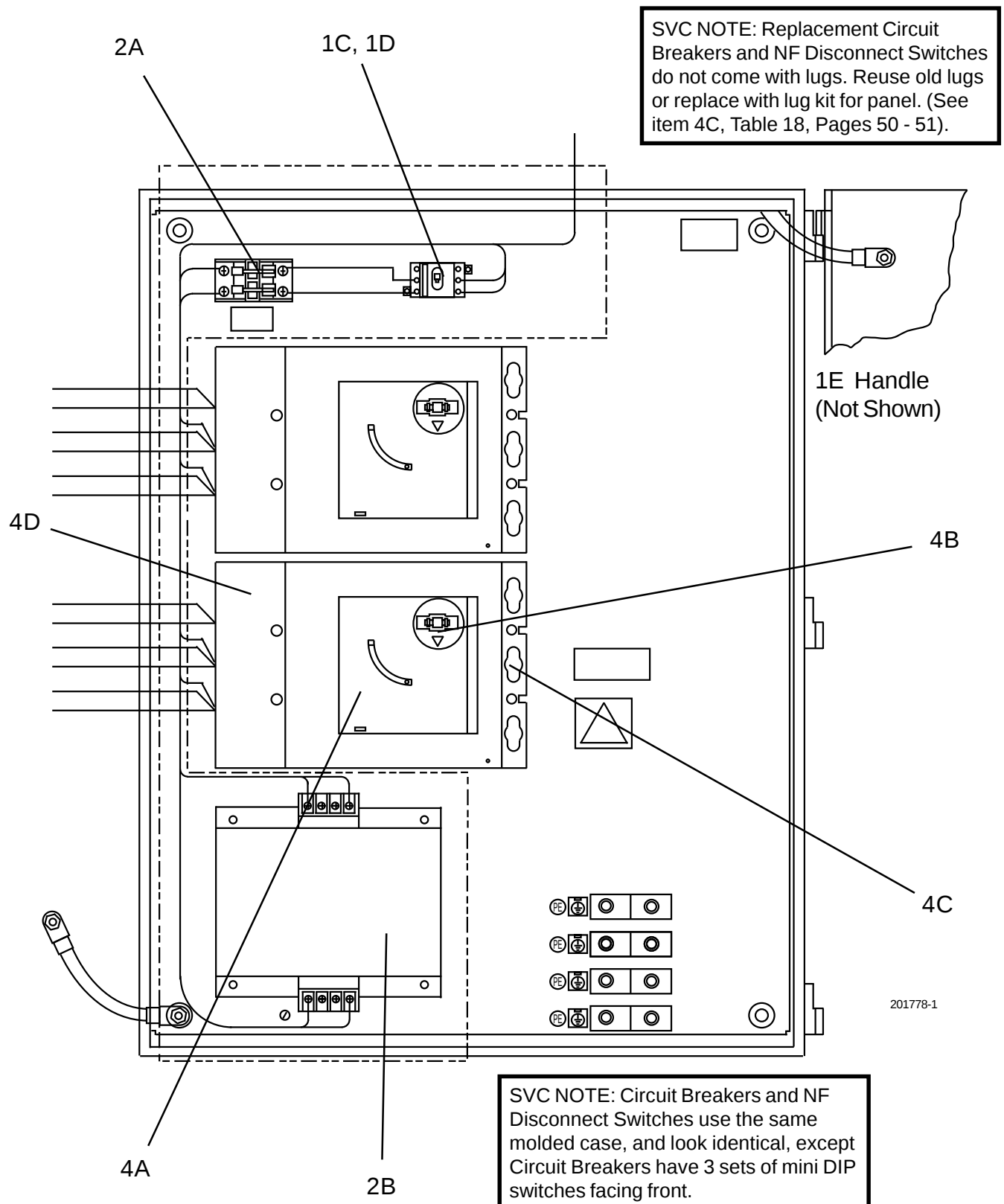
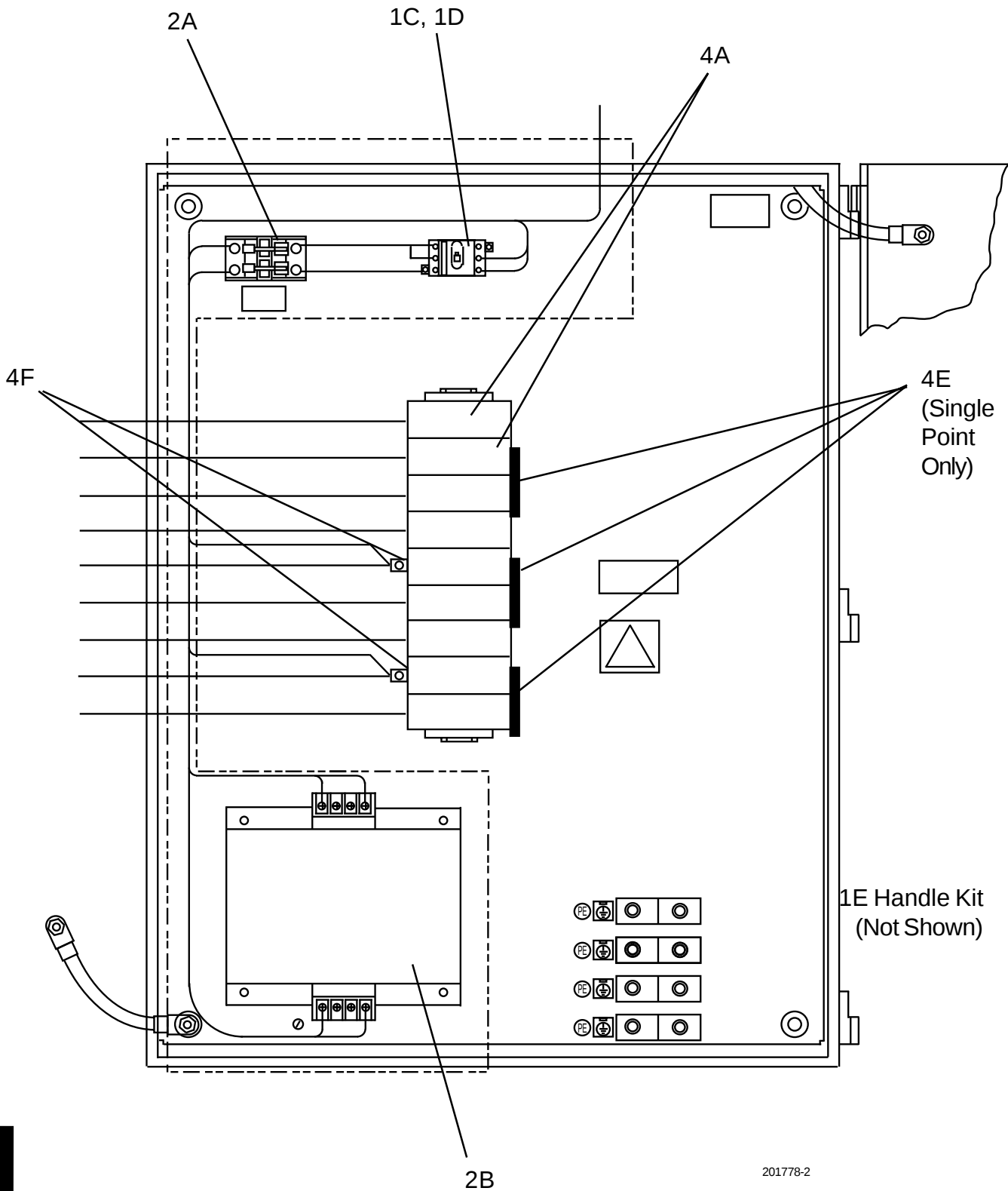


FIG. 20 – OPTION PANEL SHOWN WITH CIRCUIT BREAKER OR NON-FUSED DISCONNECT SWITCH (REF. TABLE 18, PAGES 50 AND 51)

OPTION PANEL COMPONENTS (CONT'D)



201778-2

FIG. 21 – OPTION PANEL SHOWN WITH POWER TERMINAL BLOCK
(REF. TABLE 18, PAGES 50 AND 51)

OPTION PANEL IDENTIFIERS

TABLE 17 – OPTION PANEL IDENTIFIERS (TO IDENTIFY REPLACEMENT PART NUMBERS, SELECT PANEL IDENTIFIER NUMBER BELOW THAT MATCHES THE OPTION PANEL PART LABEL, SEE FIGS. 20 AND 21, PAGES 47 AND 48, THEN REFER TO THE HI-LIGHTED ROW ON TABLE 18, PAGES 50 AND 51, TO LOCATE OPTION PANEL COMPONENT PART NUMBERS).

Model	Code	Terminal Block	Qty.	NF Disc. Switch	Qty.	Circuit Breaker	Qty.
YCAR0315	50	371-02480-316	1	371-02480-409	1	371-02480-507	1
YCAR0345	50	371-02480-304	1	371-02480-410	1	371-02480-508	1
YCAR0365	50	371-02480-313	1	371-02480-406	1	371-02480-504	1
YCAR0385	50	371-02480-302	1	371-02480-402	1	371-02480-505	1
YCAR0415	50	371-02480-303	1	371-02480-403	1	371-02480-502	1
YCAR0435	50	371-02480-316	1	371-02480-415	1	371-02480-513	1
YCAR0485	50	371-02480-317	1	371-02480-410	1	371-02480-508	1
YCAR0525	50	371-02480-313	1	371-02480-406	1	371-02480-504	1
YCAR0575	50	371-02480-314	1	371-02480-407	1	371-02480-505	1
YCAR0645	50	371-02480-303	1	371-02480-403	1	371-02480-502	1
YCAR0685	50	371-02480-316	1	371-02480-415	1	371-02480-513	1

OPTION PANEL COMPONENTS (CONT'D)

TABLE 18 – OPTIONS PANEL COMPONENTS (SEE FIGS. 20 AND 21, PAGES 47 AND 48)

ITEM	DESCRIPTION	QTY	371-02480-302	371-02480-303	371-02480-304	371-02480-313	371-02480-314	371-02480-316	371-02480-317
			See Fig. 21	See Fig. 21	See Fig. 21	See Fig. 21	See Fig. 21	See Fig. 21	See Fig. 21
4A	Terminal Block	3	025-34408-000	025-34408-000	025-34408-000	025-34405-000	025-34405-000	025-34405-000	025-34405-000
	NF Disconnect Switch	1	—	—	—	—	—	—	—
	Circuit Breaker	1	—	—	—	—	—	—	—
4B	Handle Kit	1	—	—	—	—	—	—	—
4C	Lug Kit	1	—	—	—	—	—	—	—
4D	Lug Kits with Power Tap	1	—	—	—	—	—	—	—
4E	Insertion Bridge	3	—	—	025-34422-000	—	—	025-34423-000	025-34423-000
1C	Switch, Control Power	1	024-31833-000	024-31833-000	024-31833-000	024-31833-000	024-31833-000	024-31833-000	024-31833-000
1D	Shaft, Control Power Sw.	1	024-31633-000	024-31633-000	024-31633-000	024-31633-000	024-31633-000	024-31633-000	024-31633-000
1E	Handle, Control Power Sw.	1	024-31832-000	024-31832-000	024-31832-000	024-31832-000	024-31832-000	024-31832-000	024-31832-000
2B	Transformer	1	025-34429-000	025-34432-000	025-34429-000	025-34436-000	025-34429-000	025-34434-000	025-34436-000
2A	Fuse	2	025-34430-000	025-34431-000	025-34428-000	025-34435-000	025-34430-000	025-34433-000	025-34435-000

ITEM	DESCRIPTION	QTY	371-02480-402	371-02480-403	371-02480-406	371-02480-407	371-02480-409	371-02480-410	371-02480-415
			See Fig. 20	See Fig. 20	See Fig. 20	See Fig. 20	See Fig. 20	See Fig. 20	See Fig. 20
4A	Terminal Block	3	—	—	—	—	—	—	—
	NF Disconnect Switch	1	024-31888-000	024-25565-000	024-25564-000	024-25564-000	024-25564-000	024-25563-000	024-25562-000
	Circuit Breaker	1	—	—	—	—	—	—	—
4B	Handle Kit	1	025-34417-000	025-34417-000	025-34417-000	025-34417-000	025-34417-000	025-34413-000	025-34413-000
4C	Lug Kit	1	025-34418-000	025-34418-000	025-34420-000	025-34420-000	025-34420-000	025-34414-000	025-34415-000
4D	Lug Kits with Power Tap	1	024-31650-000	024-31650-000	024-31650-000	024-31652-000	024-31654-000	024-31653-000	024-31653-000
4E	Insertion Bridge	3	—	025-34423-000	—	—	—	—	—
1C	Switch, Control Power	1	024-31833-000	024-31833-000	024-31833-000	024-31833-000	024-31833-000	024-31833-000	024-31833-000
1D	Shaft, Control Power Sw.	1	024-31633-000	024-31633-000	024-31633-000	024-31633-000	024-31633-000	024-31633-000	024-31633-000
1E	Handle, Control Power Sw.	1	024-31832-000	024-31832-000	024-31832-000	024-31832-000	024-31832-000	024-31832-000	024-31832-000
2B	Transformer	1	025-34429-000	025-34432-000	025-34432-000	025-34429-000	025-34431-000	025-34434-000	025-34434-000
2A	Fuse	2	025-34428-000	025-34431-000	025-34431-000	025-34430-000	025-34432-000	025-34433-000	025-34433-000

Note: Highlighted numbers refer to Panel Identifiers shown on page 49.

OPTION PANEL COMPONENTS (CONT'D)

TABLE 18 – OPTIONS PANEL COMPONENTS (SEE FIGS. 20 AND 21, PAGES 47 AND 48)

ITEM	DESCRIPTION	QTY	371-02480-502	371-02480-504	371-02480-505	371-02480-507	371-02480-508	371-02480-513
			See Fig. 20	See Fig. 20	See Fig. 20	See Fig. 20	See Fig. 20	See Fig. 20
4A	Terminal Block	3	—	—	—	—	—	—
	NF Disconnect Switch	1	—	—	—	—	—	—
	Circuit Breaker	1	025-34419-000	025-34424-000	025-34424-000	025-34424-000	025-34425-000	025-34473-000
4B	Handle Kit	1	025-34417-000	025-34417-000	025-34417-000	025-34417-000	025-34413-000	025-34413-000
4C	Lug Kit	1	025-34418-000	025-34420-000	025-34420-000	025-34420-000	025-34414-000	025-34414-000
4D	Lug Kits with Power Tap	1	024-31650-000	024-31652-000	024-31652-000	024-31652-000	024-31654-000	024-31615-000
4E	Insertion Bridge	3	—	—	—	—	025-34425-000	—
1C	Switch, Control Power	1	024-31833-000	024-31833-000	024-31833-000	024-31833-000	024-31833-000	024-31833-000
1D	Shaft, Control Power Sw.	1	024-31633-000	024-31633-000	024-31633-000	024-31633-000	024-31633-000	024-31633-000
1E	Handle, Control Power Sw.	1	024-31832-000	024-31832-000	024-31832-000	024-31832-000	024-31832-000	024-31832-000
2B	Transformer	1	025-34432-000	025-34436-000	025-34430-000	025-34432-000	025-34429-000	025-34434-000
2A	Fuse	2	025-34431-000	025-34435-000	025-34429-000	025-34431-000	025-34428-000	025-34433-000

Note: Highlighted numbers refer to Panel Identifiers shown on page 49.

YCAR CHILLER OPTIONS – KITS AND SPARE PARTS

TABLE 19 – FIELD INSTALLABLE OPTIONS TABLE

MODEL NUMBER YCAR	VIBRATION ISOLATORS SPRING 1" DEFLEC ALUMINUM* & BLK FIN	VIBRATION ISOLATORS SPRING 2" (SEISMIC) ALUMINUM* & BLK FIN	VIBRATION ISOLATORS SPRING 1" DEFLEC COPPER*	VIBRATION ISOLATORS SPRING 2" (SEISMIC) COPPER*	WIRE ENCLOSURE FULL UNIT	LOUVERED ENCLOSURE FULL UNIT	WIRE / LOUVERED ENCLOSURE FULL UNIT	LOUVERED ENCLOSURE CONDENSER ONLY	REMOTE TEMPERATURE RESET KIT	REMOTE CURRENT RESET KIT	REMOTE CONTROL PANEL 50hz	HOT GAS BY-PASS KIT
MODEL #	029-22776	029-22776	029-22776	029-22776	475-29513	475-29514	475-29515	475-29516	371-02492	371-02492	371-02485	375-
0315	-001	-012	-004	-016	-012	-012	-012	-012	-102	-101	-106	28537-000
0345	-001	-012	-004	-016	-012	-012	-012	-012	-102	-101	-106	28537-000
0365	-001	-012	-004	-016	-012	-012	-012	-012	-102	-101	-106	28537-000
0385	-001	-012	-005	-016	-012	-012	-012	-012	-102	-101	-106	28537-000
0415	-004	-019	-005	-016	-012	-012	-012	-012	-102	-101	-106	28537-000
0435	-009	-014	-010	-020	-016	-016	-016	-016	-102	-101	-106	28537-000
0485	-002	-014	-007	-017	-016	-016	-016	-016	-102	-101	-106	28538-000
0525	-002	-014	-007	-017	-016	-016	-016	-016	-102	-101	-106	28538-000
0575	-009	-020	-011	-017	-016	-016	-016	-016	-102	-101	-106	28538-004
0645	-009	-021	-011	-017	-016	-016	-016	-016	-102	-101	-106	28538-004
0685	-003	-021	-008	-018	-020	-020	-020	-020	-102	-101	-106	28538-003

* Note: Condenser coil fin material.

ENCLOSURE KIT OPTIONS (Includes Top and Bottom Sections)

TABLE 20 – ENCLOSURE KIT OPTIONS

MODEL NUMBER	WIRE ENCLOSURE FULL UNIT *	LOUVERED ENCLOSURE FULL UNIT *	WIRE / LOUVERED ENCLOSURE FULL UNIT *	LOUVERED ENCLOSURE CONDENSER ONLY
YCAR - SC	475-29513	475-29514	475-29515	475-29516
0315	-012	-012	-012	-012
0345	-012	-012	-012	-012
0365	-012	-012	-012	-012
0385	-012	-012	-012	-012
0415	-012	-012	-012	-012
0435	-016	-016	-016	-016
0485	-016	-016	-016	-016
0525	-016	-016	-016	-016
0575	-016	-016	-016	-016
0645	-016	-016	-016	-016
0685	-020	-020	-020	-020

* Full units include top and bottom sections. See Tables 21 - 24 for individual parts breakdown.

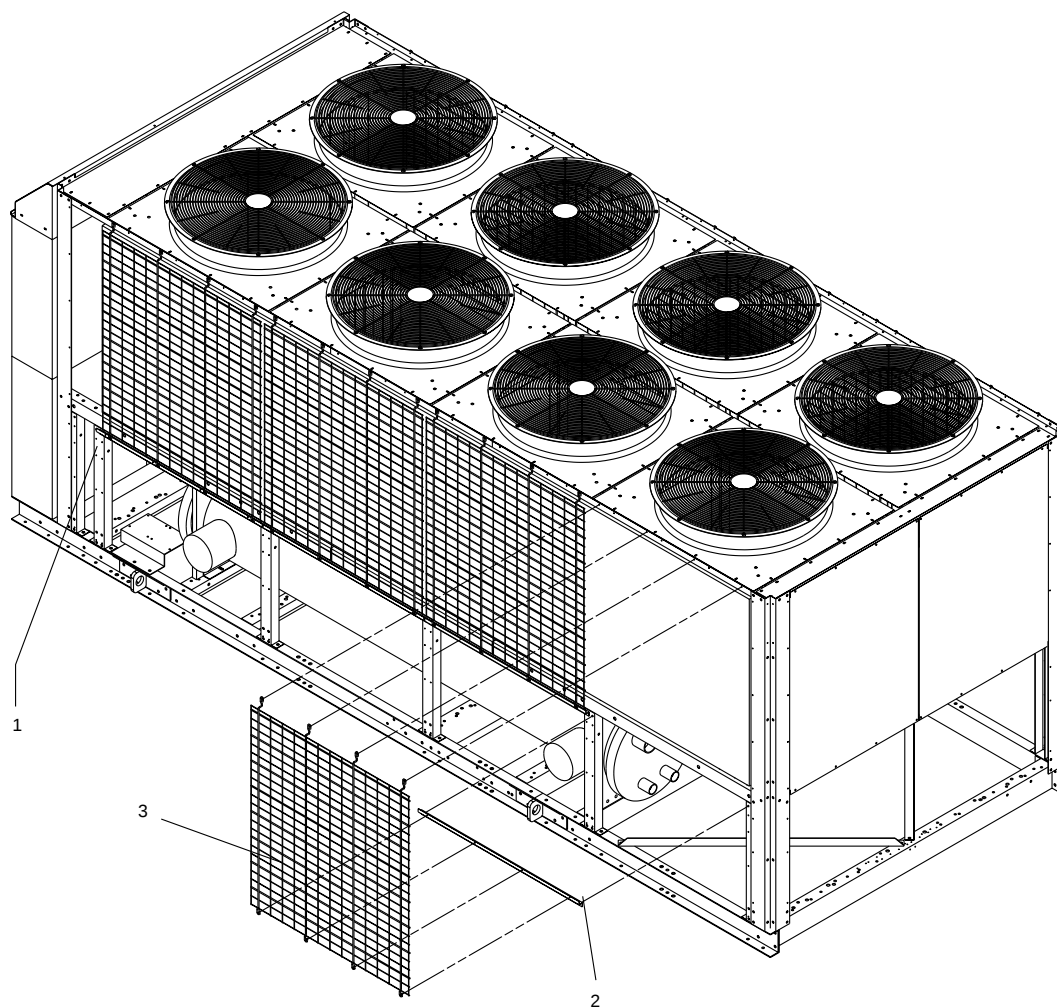
TABLE 20A – ENCLOSURE KIT OPTIONS – TOP AND BOTTOM KITS

FULL UNIT KIT OPTION INCLUDES THE FOLLOWING TOP AND BOTTOM SECTION KITS			
TYPE	FULL UNIT KIT NO.	TOP KIT NO.	BOTTOM KIT NO.
WIRE	475-29513-012	375-29569-120 (FIG. 22)	375-29569-121 (FIG. 23)
WIRE	475-29513-016	375-29569-160 (FIG. 22)	375-29569-161 (FIG. 23)
WIRE	475-29513-020	375-29569-200 (FIG. 22)	375-29081-201 (FIG. 23)
LOUVER	475-29514-012	375-29571-120 (FIG. 24)	375-29571-121 (FIG. 25)
LOUVER	475-29514-016	375-29571-160 (FIG. 24)	375-29571-161 (FIG. 25)
LOUVER	475-29514-020	375-29571-200 (FIG. 24)	375-29080-201 (FIG. 25)
W/L	475-29515-012	375-29571-120 (FIG. 24)	375-29569-121 (FIG. 23)
W/L	475-29515-016	375-29571-160 (FIG. 24)	375-29569-161 (FIG. 23)
W/L	475-29515-020	375-29571-200 (FIG. 24)	375-29569-201 (FIG. 23)
LOUVER*	475-29516-012	375-29571-120 (FIG. 24)	N/A
LOUVER*	475-29516-016	375-29571-160 (FIG. 24)	N/A
LOUVER*	475-29516-020	375-29571-200 (FIG. 24)	N/A

- Top and Bottom may be ordered separately.
- Individual parts are shown on the following pages.

* Condenser only.

WIRE ENCLOSURE TOP SECTION PARTS BREAKDOWN



LD05249

FIG. 22 – WIRE PANEL ENCLOSURE - TOP SECTION - KIT NO. 375-29569-160 IS SHOWN.**TABLE 21** – WIRE PANEL ENCLOSURE - TOP SECTION

COMPONENT BREAKDOWN - TOP KITS 375-29569-120, 160 AND 200			
REF. NUMBER	QUANTITY	DESCRIPTION	PART NUMBER
1	2	Z CHANNEL	075-29588-000
2	a	Z CHANNEL DXST	075-29589-000
3	b	WIRE GRILL CONDENSER DXST	026-36533-000
	1	HARDWARE KIT	c

a For kit no. 375-29569-120: quantity is **4****a** For kit no. 375-29569-160: quantity is **6****a** For kit no. 375-29569-200: quantity is **8****b** For kit no. 375-29569-120: quantity is **6****b** For kit no. 375-29569-160: quantity is **8****b** For kit no. 375-29569-200: quantity is **10****c** For kit no. 375-29569-120: use part number **321-29569-120****c** For kit no. 375-29569-160: use part number **321-29569-160****c** For kit no. 375-29569-200: use part number **321-29569-200**

WIRE ENCLOSURE BOTTOM SECTION PARTS BREAKDOWN

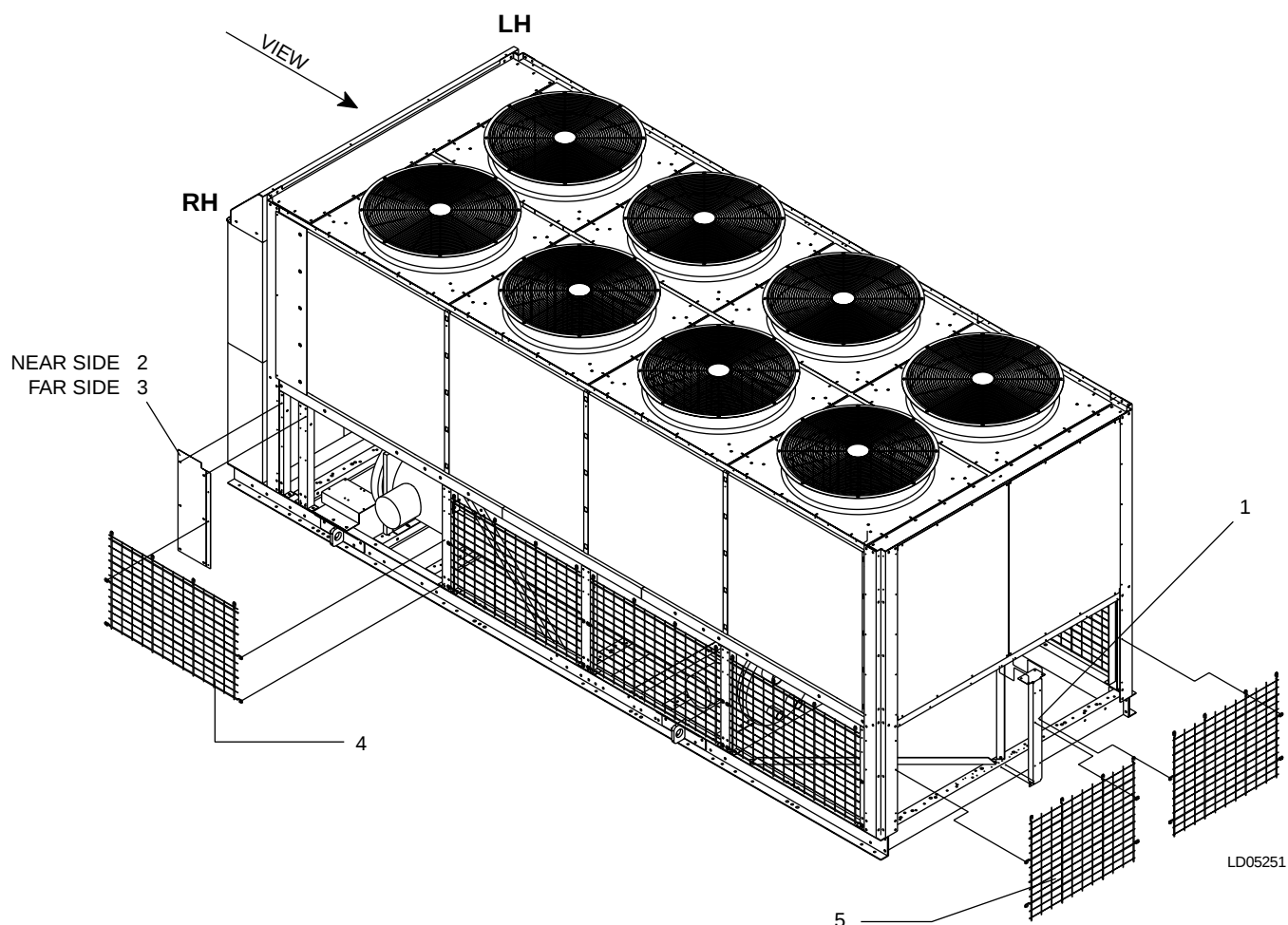


FIG. 23 – WIRE PANEL ENCLOSURE - BOTTOM SECTION - KIT NO. 375-29569-161 IS SHOWN.

TABLE 22 – WIRE PANEL ENCLOSURE - BOTTOM SECTION

COMPONENT BREAKDOWN - BOTTOM KITS 375-29569-121, 161 AND 201			
REF. NUMBER	QUANTITY	DESCRIPTION	PART NUMBER
1	1	REAR SUPPORT	075-29590-000
2	1	PANEL VANITY RH	075-29591-000
3	1	PANEL VANITY LH	075-29592-000
4	a	WIRE GRILL DXST	026-36534-000
5	2	WIRE GRILL REAR DXST	026-36535-000
	1	HARDWARE KIT	b

a For kit no. 375-29569-121: quantity is **6**

a For kit no. 375-29569-161: quantity is **8**

a For kit no. 375-29569-201: quantity is **10**

b For kit no. 375-29569-121: use part number **321-29569-121**

b For kit no. 375-29569-161: use part number **321-29569-161**

b For kit no. 375-29569-201: use part number **321-29569-201**

LOUVERED ENCLOSURE TOP SECTION PARTS BREAKDOWN

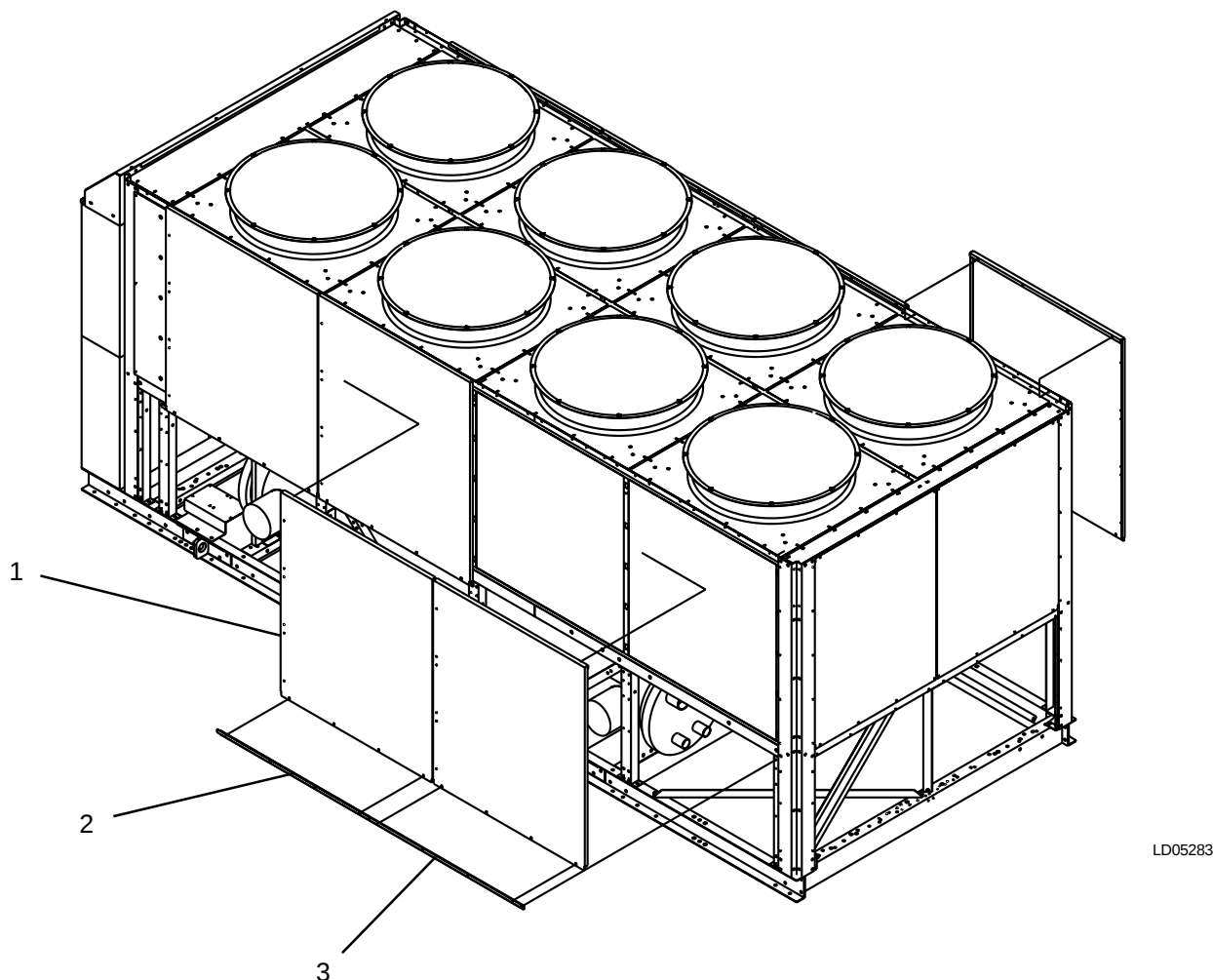


FIG. 24 – LOUVERED PANEL ENCLOSURE - TOP SECTION
KIT NO. 375-29571-160 IS SHOWN

TABLE 23 – LOUVERED PANEL ENCLOSURE - TOP SECTION

COMPONENT BREAKDOWN - TOP KITS 375-29571-120, 160 and 200			
REF. NUMBER	QUANTITY	DESCRIPTION	PART NUMBER
1	a	PANEL LOUVER	075-29580-000
2	2	Z CHANNEL	075-29588-000
3	b	Z CHANNEL DXST TAMPER PROOF	075-29589-000
	1	HARDWARE KIT	c

a For kit no. 375-29571-120: quantity is **6**

a For kit no. 375-29571-160: quantity is **8**

a For kit no. 375-29571-200: quantity is **10**

b For kit no. 375-29571-120: quantity is **4**

b For kit no. 375-29571-160: quantity is **6**

b For kit no. 375-29571-200: quantity is **8**

c For kit no. 375-29571-120: use part number **321-29571-120**

c For kit no. 375-29571-160: use part number **321-29571-160**

c For kit no. 375-29571-200: use part number **321-29571-200**

LOUVERED ENCLOSURE BOTTOM SECTION PARTS BREAKDOWN

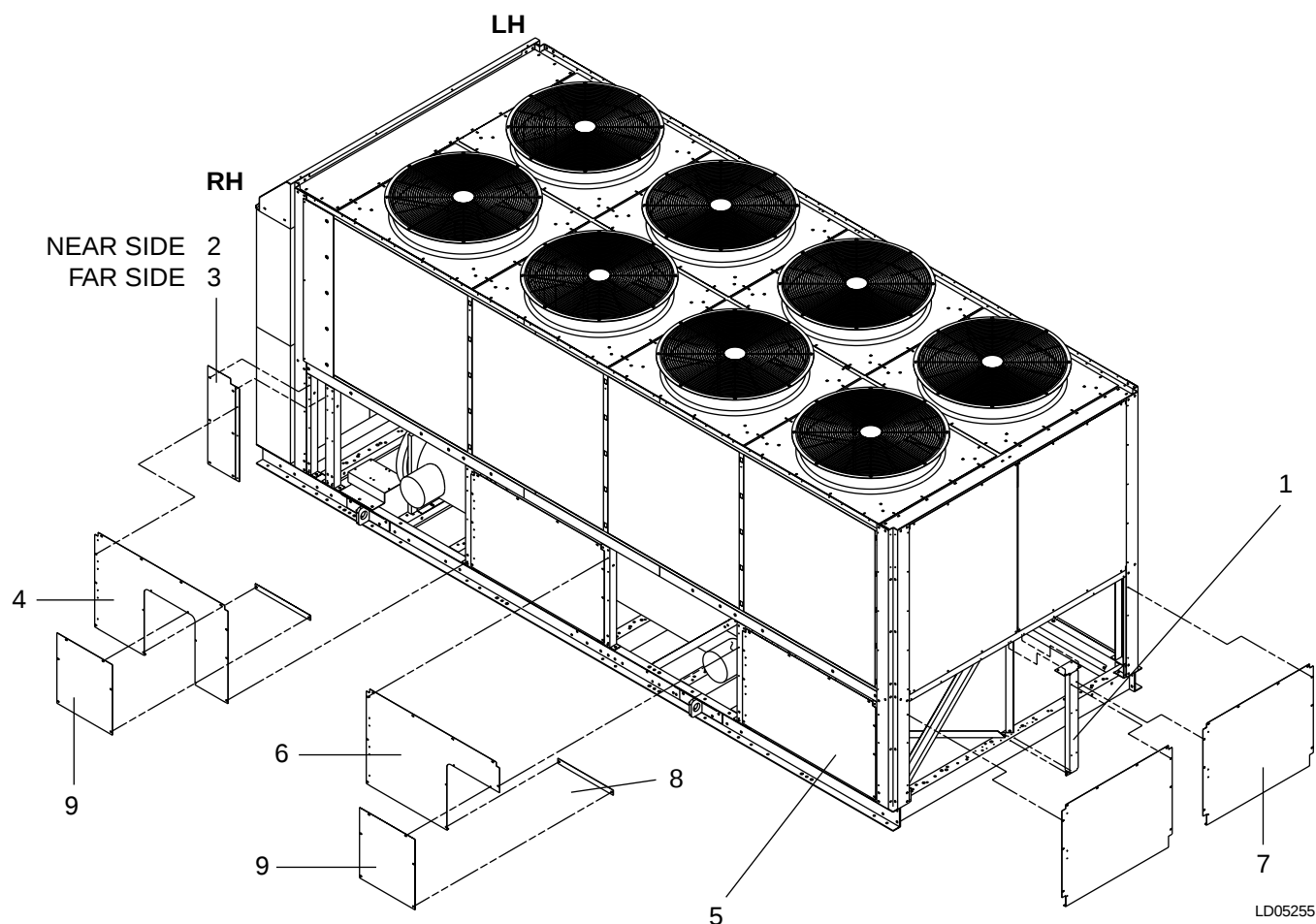


FIG. 25 – LOUVERED PANEL ENCLOSURE - BOTTOM SECTION
KIT NO. 375-29571-161 IS SHOWN.

TABLE 24 – LOUVERED PANEL ENCLOSURE - BOTTOM SECTION

COMPONENT BREAKDOWN - BOTTOM KITS 375-29571-121, 161 and 201			
REF. NUMBER	QUANTITY	DESCRIPTION	PART NUMBER
1	1	REAR SUPPORT	075-29590-000
2	1	PANEL VANITY RH	075-29591-000
3	1	PANEL VANITY LH	075-29592-000
4	1	PANEL LOUVER	075-29582-000
5	a	PANEL LOUVER	075-29581-000
6	1	PANEL LOUVER	075-29584-000
7	2	PANEL LOUVER	075-29585-000
8	2	ANGLE SUPPORT WATER CONNECTOR	075-29587-000
9	2	PLATE WATER CONNECTOR COVER	075-29586-000

a For kit no. 375-29571-121: quantity is 4

a For kit no. 375-29571-161: quantity is 6

a For kit no. 375-29571-201: quantity is 8

REMOTE CURRENT/TEMPERATURE RESET WIRING

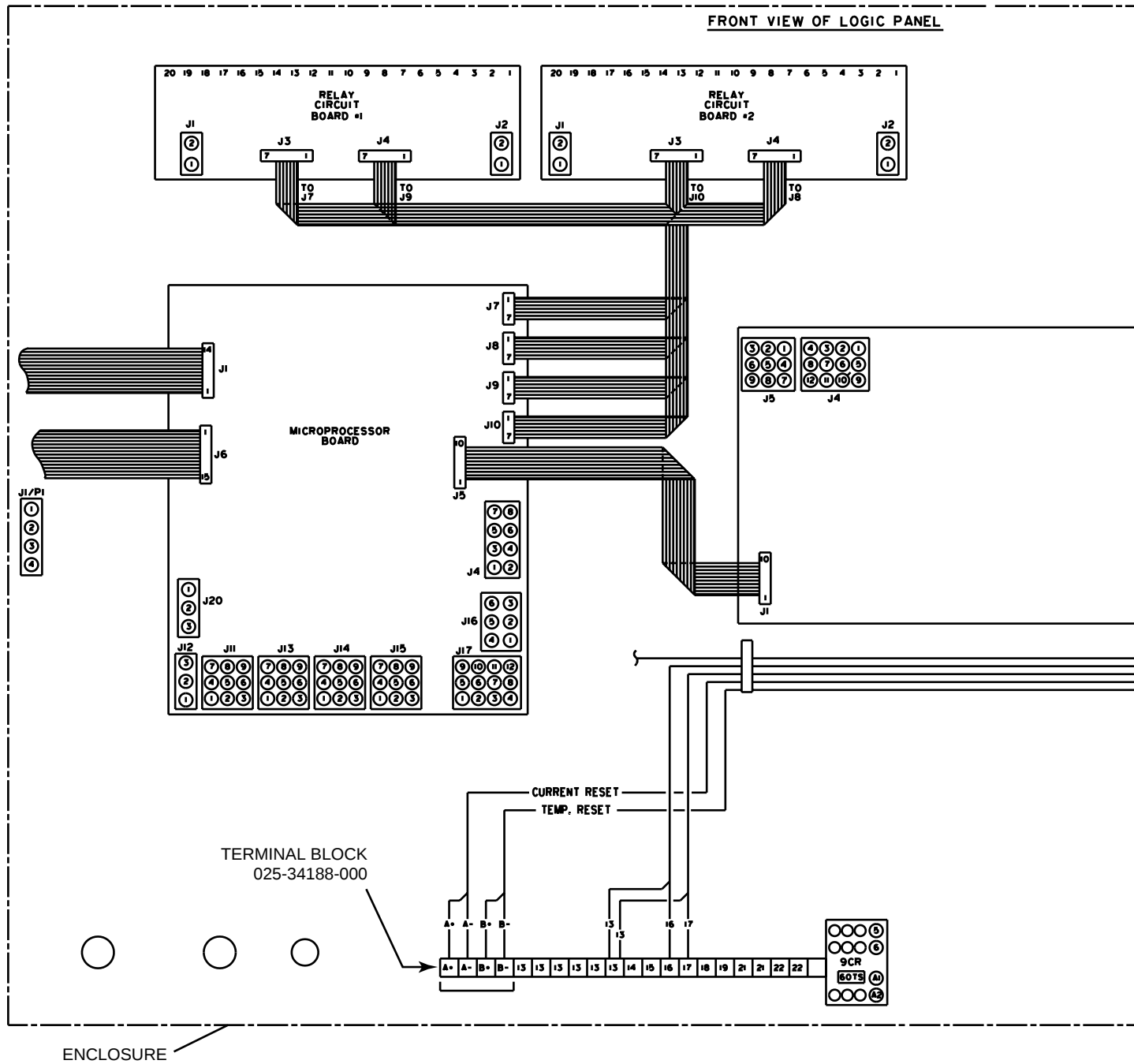


FIG. 26 – REMOTE CURRENT/TEMPERATURE RESET WIRING DIAGRAM

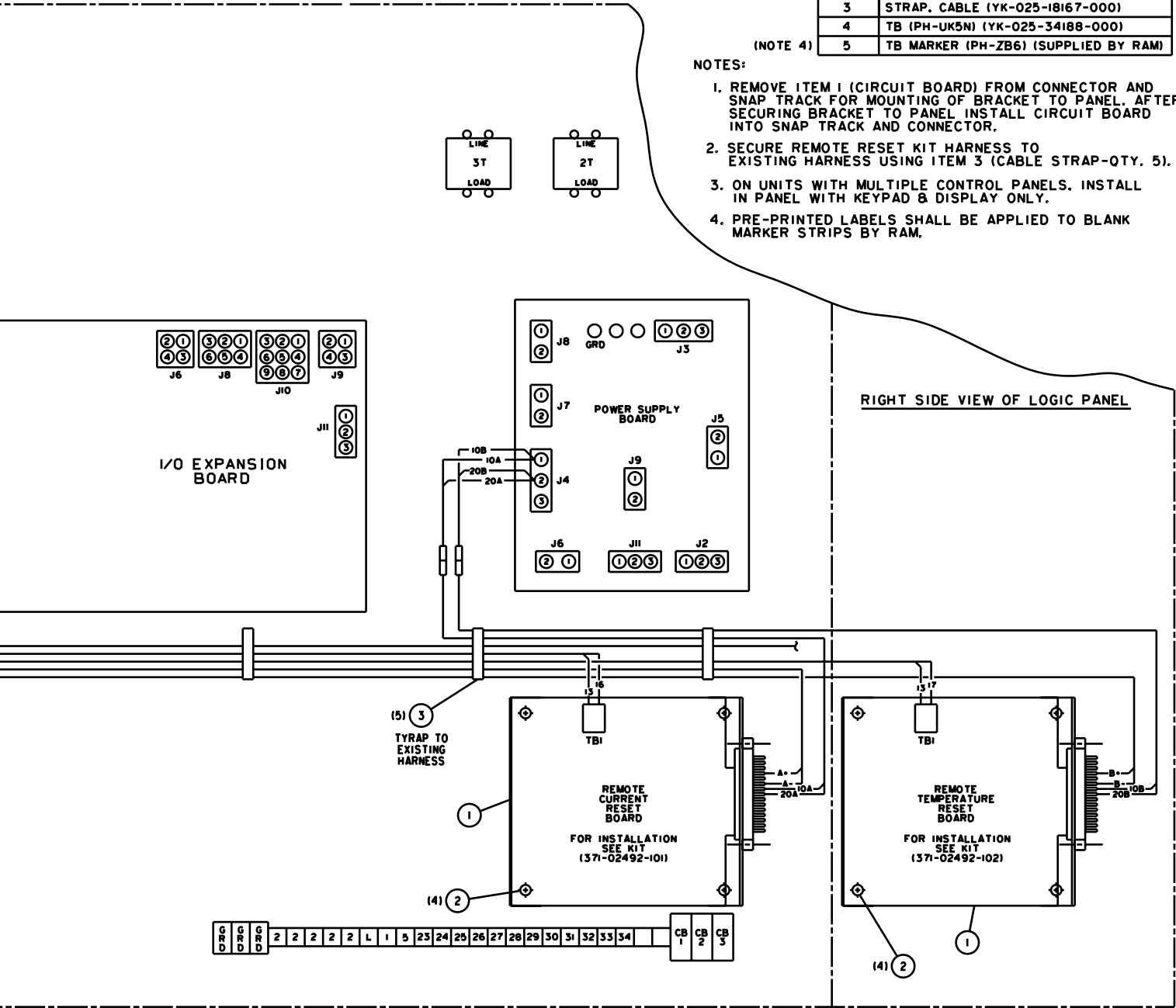
REMOTE CURRENT/TEMPERATURE RESET WIRING

Chiller Options

ITEM	DESCRIPTION
1	CONTROL
2	SCREW, PAN HD. #10 X 1/2
3	STRAP, CABLE (YK-025-18167-000)
4	TB (PH-UK5N) (YK-025-34188-000)
5	TB MARKER (PH-ZB6) (SUPPLIED BY RAM)

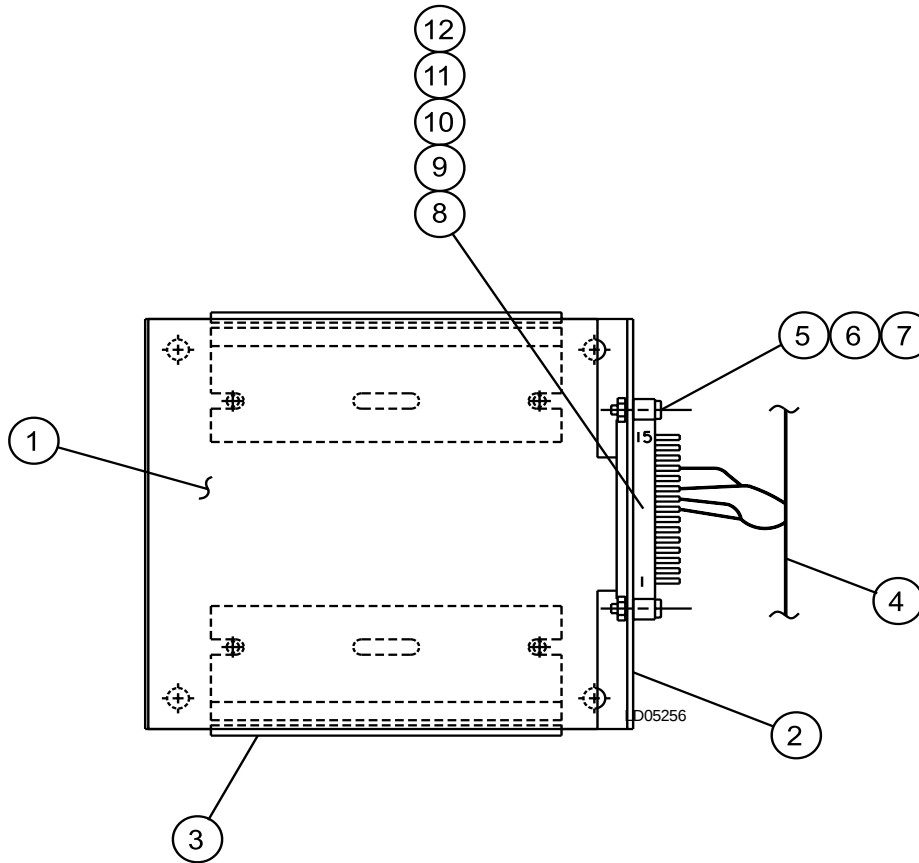
(NOTE 4)

- NOTES:
1. REMOVE ITEM 1 (CIRCUIT BOARD) FROM CONNECTOR AND SNAP TRACK FOR MOUNTING OF BRACKET TO PANEL. AFTER SECURING BRACKET TO PANEL INSTALL CIRCUIT BOARD INTO SNAP TRACK AND CONNECTOR.
 2. SECURE REMOTE RESET KIT HARNESS TO EXISTING HARNESS USING ITEM 3 (CABLE STRAP-QTY. 5).
 3. ON UNITS WITH MULTIPLE CONTROL PANELS, INSTALL IN PANEL WITH KEYPAD & DISPLAY ONLY.
 4. PRE-PRINTED LABELS SHALL BE APPLIED TO BLANK MARKER STRIPS BY RAM.



LD05854

REMOTE CURRENT/TEMPERATURE RESET PARTS BREAKDOWN

**FIG. 27 – REMOTE CURRENT/TEMPERATURE RESET COMPONENTS****TABLE 25 – REMOTE CURRENT OR TEMPERATURE RESET KIT NUMBER 371-02492-102**

REF. NUMBER	QUANTITY	DESCRIPTION	PART NUMBER
1	1	CONTROL, REMOTE CURRENT/TEMP	031-00814-000
2	1	BRACKET, REMOTE CURRENT/TEMP RESET	371-01232-361
3	1	TRACK, SNAP	071-01232-363
4	1	WIRING, REMOTE CURRENT/TEMP RESET	571-02492-231*
5	2	SCREW MACH. PAN HD #4	021-17594-000
6	2	NUT HEX MACH SCREW #4 – 40 UNC-2B	021-10056-000
7	2	LOCKWASH, HEL. SPG. #4 REG.	021-17576-000

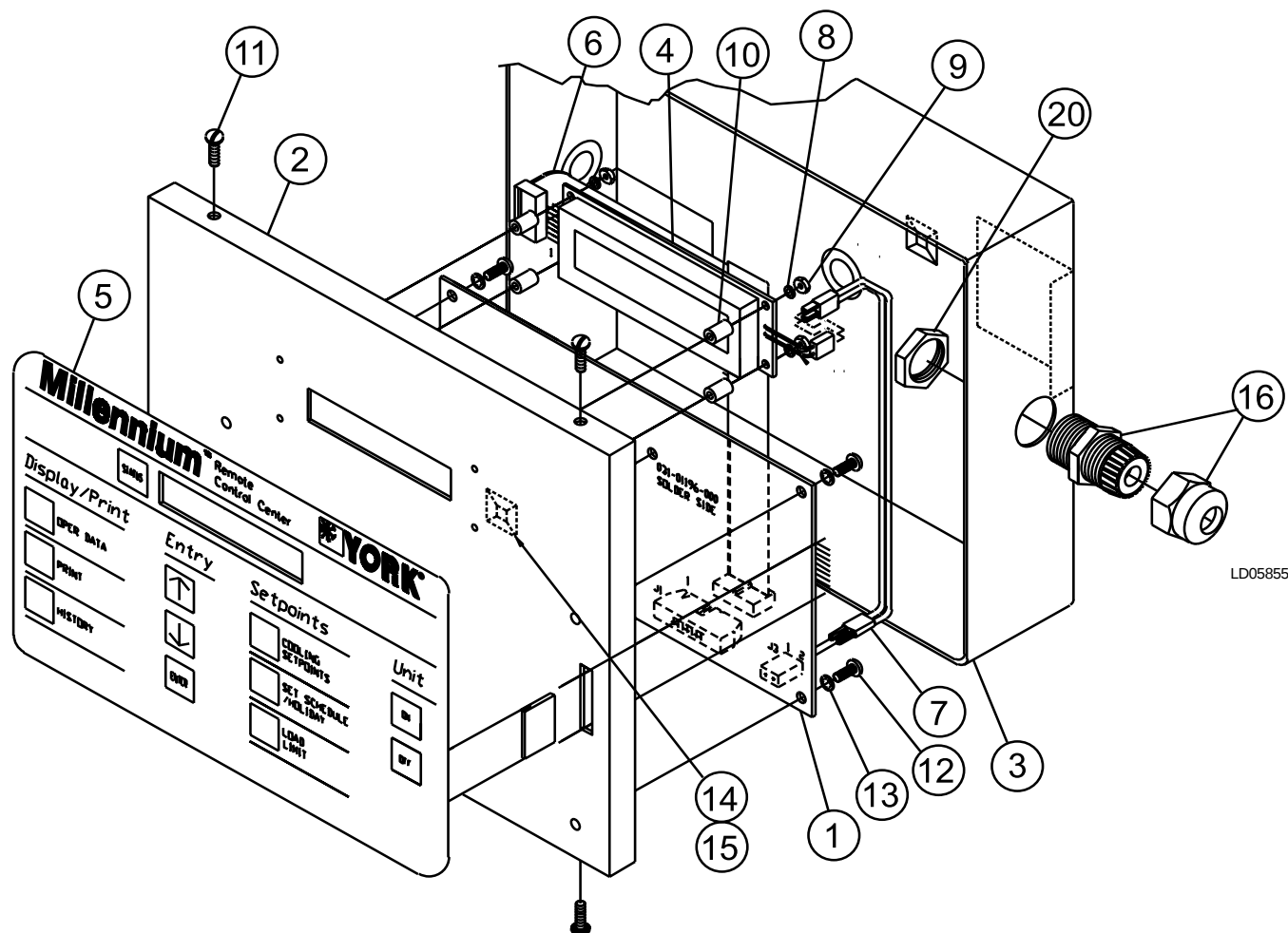
* Refer to Table 26 below.

TABLE 26 – REMOTE RESET WIRING

REF. NUMBER	QUANTITY	DESCRIPTION	PART NUMBER
8	2	CONT SOC AWG WIRE SIZE 20	025-19674-000
9	2	TERMINAL PUSH ON STRAIGHT	025-06642-000
10	4	TUBING HEAT SHRINKABLE 1/8 ID	025-29632-000
11	1	HGS CONNECTOR ELECTRICAL PLUG	025-32564-000*
12	1	CONNECTOR EDGE, 15 POSITION, 0.125	025-29631-000

* Was P/N 025-21137-000 prior to Spring 1999.

REMOTE CONTROL CENTER



LD05855

FIG. 28 – REMOTE CONTROL CENTER

TABLE 27 – REMOTE CONTROL CENTER

371-02485-106 (50 HZ)			
REF. NUMBER	QUANTITY	DESCRIPTION	PART NUMBER
1	1	CONTROL, MICROBOARD	031-01196-000
2	1	COVER, REMOTE CONTROL	371-02485-311
3	1	BASE, REMOTE CONTROL	071-02485-320
4	1	DISPLAY, LCD	031-01110-000
5	1	SWITCH, KEYPAD	024-30930-000
6	1	RIBBON CABLE	071-01289-211
7	1	WIRE CABLE	071-01289-212
10	4	SPACER, NYLON 1/4 OD X 7/16 LG.	021-17575-000
11	4	SCREW TAP THD. FORM TYPE AB	021-14150-000
14	3	CABLE TIE MOUNT	025-25155-000
15	5	CABLE TIE	025-18167-000
16	1	CABLE FITTING	025-37132-000
17	1	INSULATOR, RECIPAK, ROOFTOP	071-01730-000
18	2	MODULE, LAN TRANSIENT PROTECTION (LTP)	031-01586-000
19	1	INSTALLATION INSTRUCTIONS	071-01289-002
20	1	NUT, LOCKING, HEYCO-3232	025-31732-000
21	1	OPERATOR'S MANUAL	150.52-NM2

RECOMMENDED SPARE PARTS

York Model YCAR Style A Air Cooled Reciprocating Chillers

Suggested Spare Parts List for Critical Duty Applications

TABLE 28 – RECOMMENDED SPARE PARTS

PAGE REF. & ITEM NUMBER	DESCRIPTION	PART NUMBER
Page 7, Item 6	Gasket, Pass Baffle and Head	See Table 1
Page 7, Item 7	Heater, Cooler 280 Watt	See Table 1
Page 9, Item 1	Fan Motor	See Table 3
Page 9, Item 2	Fan Blade	See Table 3
Page 10, Item 1	Valve, Thermal Expansion (Cooler)	See Table 4
Page 10, Item 4	Core, Dehydrator	See Table 4
Page 10, Item 9	Coil, Solenoid	See Table 4
Page 18, Item 28	Crankshaft	See Table 7
Page 20, Item Oil	York Type C Oil, POE, 3 gal.*	011-00575-000
Page 24, Item 2	MicroBoard	031-01095-002
Page 24, Item 3	Power Supply Board	031-01094-000
Page 24, Item 4	Relay Circuit Board	031-01093-000
Page 30, Item 1	Sensor, Outside Air Temp.	025-28663-001
Page 30, Item 2	Sensor, Water Temp. (All)	025-29964-000
Page 30, Item 3	Sensor, Oil Temp.	025-30440-000
Page 30, Item 4	Sensor, Discharge Temp.	025-32924-000
Page 30, Item 5	Sensor, Suction Temp.	025-28935-000
Page 30, Item 6	HP Cut-out (USA Std.)	025-30480-000
Page 30, Item 7	Transducer, Suction 0-200 PSI	025-29583-000
Page 30, Item 8	Transducer, Discharge 0-400 PSI	025-29139-001
Page 36-43, Item 3	Motor Protector Module	024-30907-000

- Chiller Paint, 12 oz. spray, York Part # TAJ3721037 (Desert Tan)

* Type C oil is used with both R-22 and R-407C refrigerants.

All requests for parts should be made to your local YORK Sales And Service Center shown on inside back cover.

YORK SERVICE OFFICES (NORTH AMERICA)

ALABAMA

Birmingham

YORK International Corp.
(205) 987-0458

ARIZONA

Phoenix

YORK International Corp.
(602) 220-9400

CALIFORNIA

Los Angeles

YORK International Corp.
(714) 897-0997

San Francisco

YORK International Corp.
(510) 426-1166

COLORADO

Denver

YORK International Corp.
(303) 649-1500

CONNECTICUT

Danbury

YORK International Corp.
(203) 730-8100

FLORIDA

Miami

YORK International Corp.
(305) 389-9675

Tampa

YORK International Corp.
(381) 621-1323

Orlando

YORK International Corp.
(407) 444-2261

GEORGIA

Atlanta

YORK International Corp.
(404) 925-0346

HAWAII

Honolulu

YORK International Corp.
(808) 596-0761

ILLINOIS

Chicago

YORK International Corp.
(708) 520-1910

INDIANA

Indianapolis

YORK International Corp.
(317) 595-3050

KENTUCKY

Louisville

YORK International Corp.
(502) 499-6020

LOUISIANA

New Orleans

YORK International Corp.
(504) 664-6941

MARYLAND

Baltimore/Washington

YORK International Corp.
(410) 720-6383

MASSACHUSETTS

Boston

YORK International Corp.
(781) 769-7950

MICHIGAN

Detroit

YORK International Corp.
(810) 689-7277

MINNESOTA

Minneapolis

YORK International Corp.
(612) 780-4446

MISSOURI

Kansas City

YORK International Corp.
(816) 221-9675

St. Louis

YORK International Corp.
(314) 770-0909

NEW JERSEY

Newark

YORK International Corp.
(908) 225-0606

NEVADA

Las Vegas

YORK International Corp.
(702) 873-2200

NEW YORK

Buffalo

YORK International Corp.
(716) 633-2172

New York

YORK International Corp.
(212) 843-1602

NORTH CAROLINA

Charlotte

YORK International Corp.
(704) 598-0000

Greensboro

YORK International Corp.
(336) 299-9675

Raleigh

YORK International Corp.
(919) 829-1700

OHIO

Cincinnati

YORK International Corp.
(513) 489-8871

Cleveland

YORK International Corp.
(216) 447-0696

Columbus

YORK International Corp.
(614) 841-5242

PENNSYLVANIA

Philadelphia

YORK International Corp.
(610) 640-2320

Pittsburgh

YORK International Corp.
(412) 364-6600

York (HQ)

YORK International Corp.
(717) 771-6561

SOUTH CAROLINA

Greenville

YORK International Corp.
(803) 297-4822

TENNESSEE

Kingsport

YORK International Corp.
(615) 349-2450

Nashville

YORK International Corp.
(615) 833-9675

TEXAS

Austin

YORK International Corp.
(512) 458-4575

Dallas

YORK International Corp.
(214) 241-1219

Houston

YORK International Corp.
(713) 782-5200

San Antonio

YORK International Corp.
(210) 496-6631

UTAH

Salt Lake City

YORK International Corp.
(801) 261-1200

VIRGINIA

Richmond

YORK International Corp.
(804) 359-2600

Newport News

YORK International Corp.
(804) 873-0362

WASHINGTON

Seattle

YORK International Corp.
(206) 251-9145

CANADA

Ottawa, Ontario

(613) 596-9111

Toronto, Ontario

(905) 890-6812

Laval, Quebec

(514) 387-6000

YORK Applied Systems field office listing subject to change.

See us on the web at <http://www.york.com> for additional information.

