



MILLENNIUM®
AIR-COOLED SCREW CHILLER
STYLE "F"

RENEWAL PARTS LIST

New Release

Form 201.18-RP2 (701)

**MODELS YCAS0373, 0403, 0453, 0503, 0543,
0573, 0623 and 0653
50 HERTZ**



28971AR



ALLY



200-3-60
230-3-60
315-3-60
460-3-60
575-3-60
MODELS ONLY

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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.

UNIT NOMENCLATURE AND MODEL IDENTIFICATION

BASIC PART NUMBER

YCAS0453EC50YFA

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				#	#	#	#	E	C	5	0		F	A
: YORK				Tons				High Efficiency	:R-22	:380-415/3/60			:Design Series F	
C : Chiller				0373									:Engineering	
A : Air Cooled				0403						Y :Wye (Star) Delta			Change	
S : Screw				0453						X :Across the Line			or PIN Level	
				0503										
				0543										
				0573										
				0623										
				0653										

PART NUMBER – LETTER CODES

16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37
POWER FIELD				CONTROLS FIELD									COMPRESSOR / PIPING FIELD								
M	D			X									#	#							
M	B			Y									T	S							
S	B			C																	
D	B			B									C	D							
S	X			M									L								
S	D			S									B								
B	X			F									X								
				G																	
				X																	
				L																	
				C																	
				X																	
				P																	
				R																	
				S																	

38	39	40	41	42	43	44		45	46	47		48	49	50	51	52	53	54
EVAP. FIELD								CONDENSER FIELD				CABINET FIELD						
 3	 D	 W V	 S				: 300 PSIG DWP Waterside	 ☒ X			: Aluminum	 1						: Wire (Full Unit) Enc. Panels (factory)
				M			: Double Thick Insulation	C			: Copper	2						: Wire (Full Unit) Enc. Panels (field)
				A			: Weld Flange Kit	B			: BlackFin	3						: Wire/Louvered Enc. Panels (factory)
				S			: Victaulic Flange Kit	P			: Phenolic	4						: Wire/Louvered Enc. Panels (field)
				F			: Flow Switch		☒ X	: TEAO Fan Motors		5						: Louvered (Cond. Only) Enc. Panels (factory)
				T			: Multinat'l Vessel & Assoc. Safety Codes					6						: Louvered (Cond. Only) Enc. Panels (field)
				I			: ASME Pressure Vessel & Associated Codes (American)					7	E					: Louvered (Full Unit) Enc. Panels (factory)
				P			: AS 1210 Vessel & Associated Codes (Australian)					8	X					: Louvered (Full Unit) Enc. Panels (field)
				R			: French Vessel & Associated Codes (DRIRE)											: Compressor Sound Enclosure
				X			: German TUV Vessel & Assoc. Codes (A.D. Merkblatter)											: No Option
							: Italian Vessel & Associated Codes (ISPESL)											: Acoustic Sound Blanket
							: Polish Vessel & Associated Codes											: Low Sound Fans
							: Remote DX Cooler										H	: High Static Fans
							X : No Option											S : Final Overspray Paint

NOTES:

1. Q :DENOTES SPECIAL / S.Q.

NOTES:

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

EVAPORATOR COMPONENTS

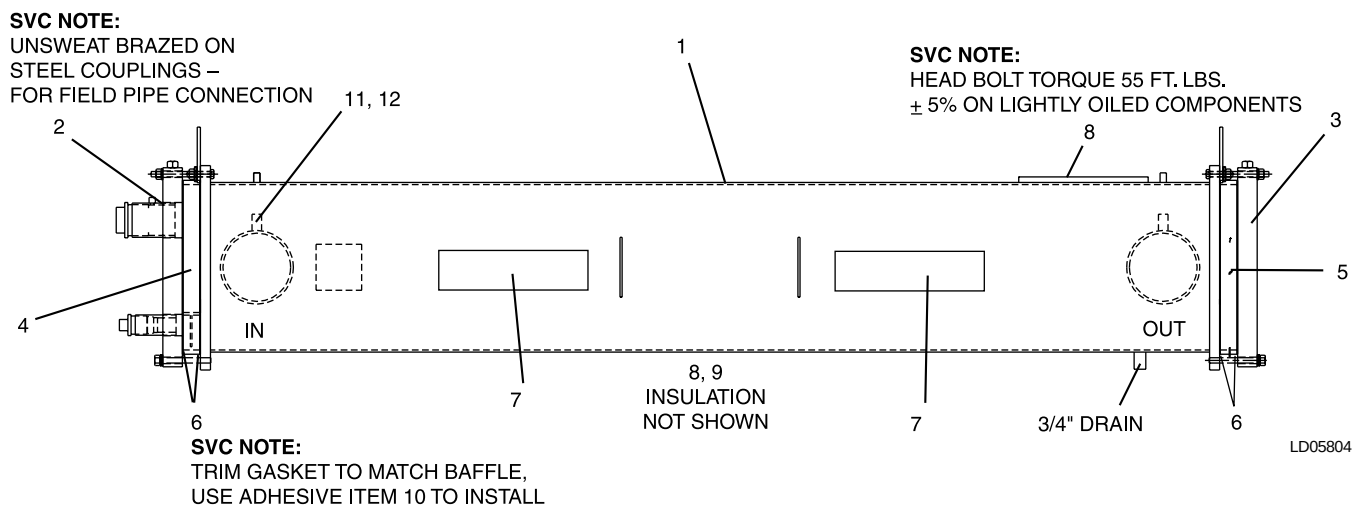


FIG. 1 – EVAPORATOR COMPONENTS

TABLE 1 – EVAPORATOR COMPONENTS

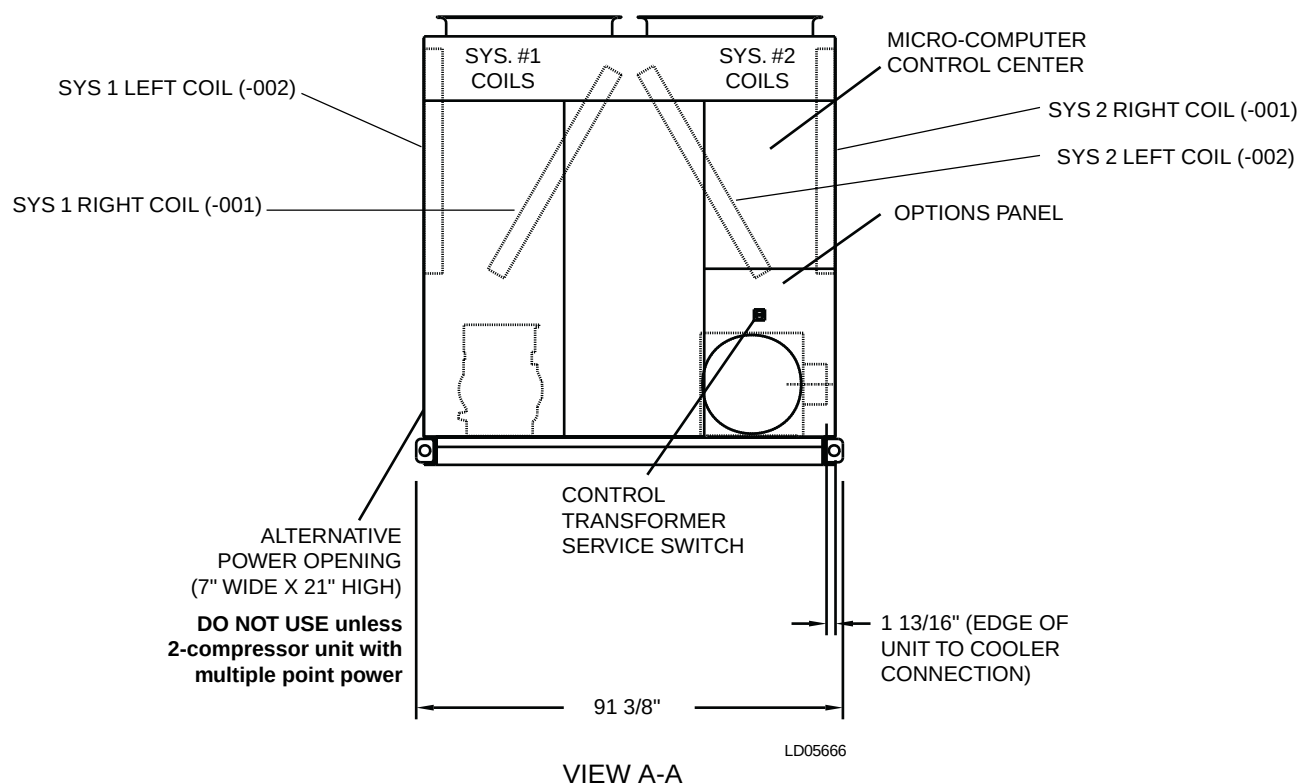
ITEM NUMBER	QTY. PER UNIT	DESCRIPTION	DWP	UNIT MODEL YCAS0373 THRU YCAS0503	UNIT MODEL YCAS0543 THRU YCAS0653
1	1	Cooler, less Heater & Insulation (Items 2 thru 6)	150 300	375-30200-000 375-30085-000	375-30201-000 375-30082-000
2	1	Head, Connection End	ALL	375-30231-000	375-30219-000
3	1	Head, Back End	ALL	075-30234-000	375-30221-000
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	025-22691-000	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

* Use on 1 1/2 insulated coolers only.

- 150# COOLER FLOW SWITCH 024-26116-000 (PIN 38 in Model No. is X; see page 4.)
- 300# COOLER FLOW SWITCH 024-12144-000 (PIN 38 in Model No. is 3; see page 4.)

CONDENSOR COIL COMPONENTS



VIEW OF CHILLER FROM POWER PANEL END

FIG. 2 – CONDENSER COIL LAYOUT

TABLE 2 – CONDENSER COILS – YCAS STYLE F CHILLERS

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

		MODELS YCAS0373-0503 12' COIL	MODELS YCAS0543- 0623 16' COIL	MODEL YCAS0653 20' COIL
ITEM NUMBER	DESCRIPTION	YORK PART NO.	YORK PART NO.	YORK PART NO.
ALUMINUM FIN COIL				
1	Cond Coil Assembly, Right	375-27435-001	375-29501-001	375-25578-001
2	Cond Coil Assembly, Left	375-27435-002	375-29501-002	375-25578-002
BLACK FIN COIL				
1	Cond Coil Assembly, Right	375-23772-001	375-23770-001	375-23771-001
2	Cond Coil Assembly, Left	375-23772-002	375-23770-002	375-23771-002
PHENOLIC COATED ALUMINUM FIN				
1	Cond Coil Assembly, Right	375-29011-001	375-29010-001	375-29009-001
2	Cond Coil Assembly, Left	375-29011-002	375-29010-002	375-29009-002
COPPER FIN				
1	Cond Coil Assembly, Right	375-23778-001	375-23776-001	375-23777-001
2	Cond Coil Assembly, Left	375-23778-002	375-23776-002	375-23777-002

NOTES: Coil Assemblies are complete with headers.

FAN COMPONENTS

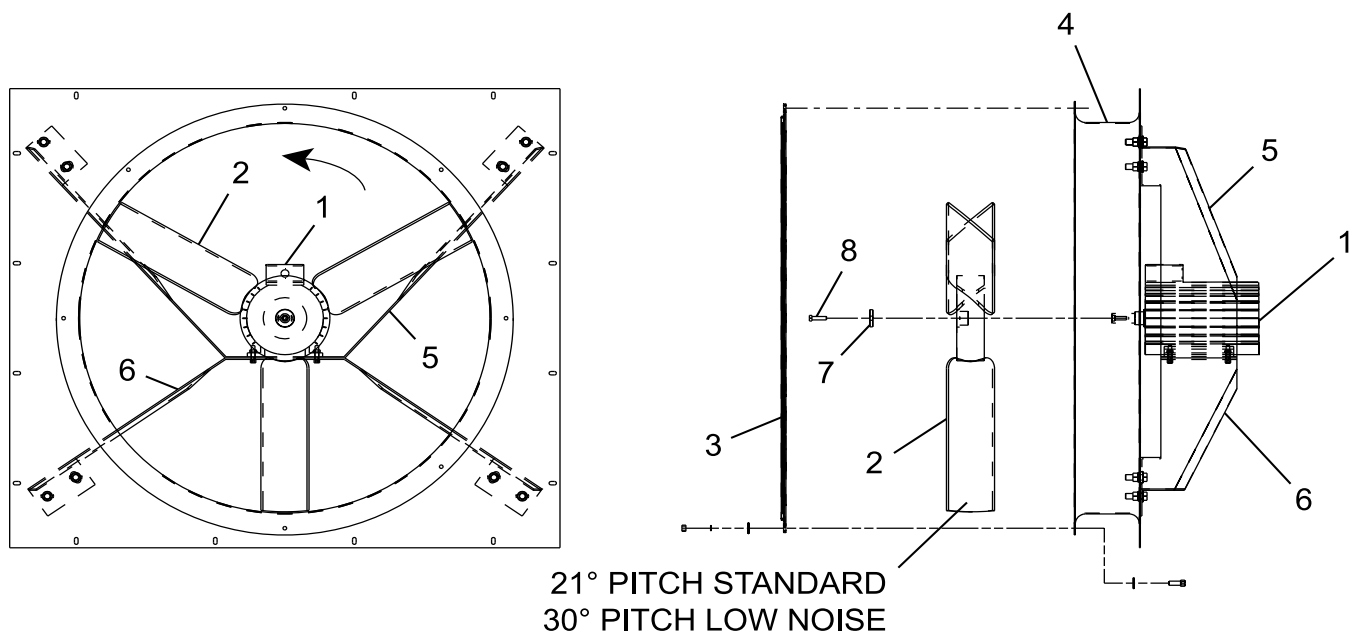


FIG. 3 – FAN COMPONENTS

Service Note: Pin Location 52 in Model Number will be "X" for Standard Fan, or "L" for Low Noise Fan. See page 4.

TABLE 3 – FAN COMPONENTS

ITEM NUMBER	DESCRIPTION	VOLTAGE CODE	FAN TYPE	
			STANDARD 7/8" Ø SHAFT, 967 RPM	LOW NOISE (OPTIONAL) 7/8" Ø SHAFT, 708 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.

FAN COMPONENTS (CONT'D)

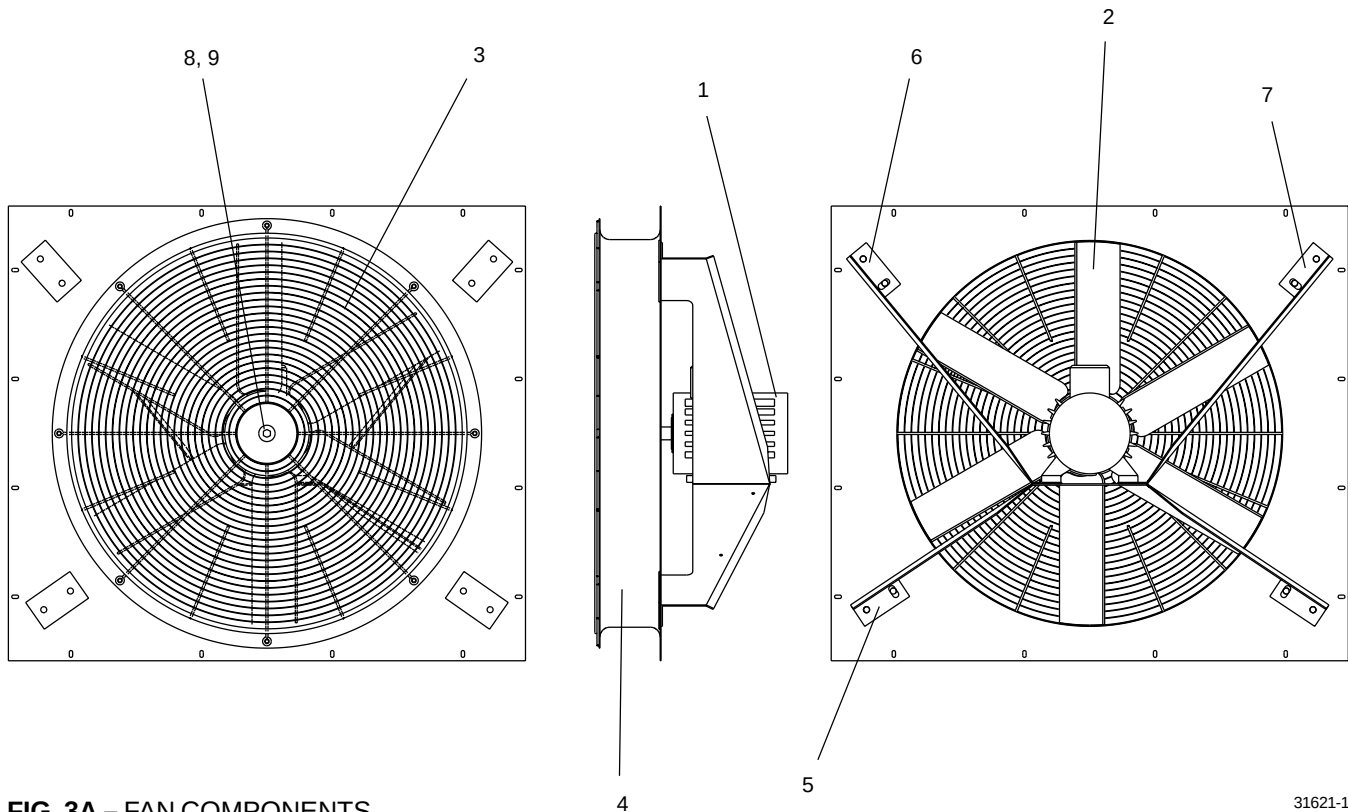


FIG. 3A – FAN COMPONENTS

31621-1

Service Note: Pin Location 53 in Model Number will be "H" for High Static Fan. See page 4.

TABLE 3A – FAN COMPONENTS

ITEM NUMBER	DESCRIPTION	VOLTAGE CODE	FAN TYPE
			HIGH STATIC 1 3/8" Ø SHAFT, 967 RPM
1 ^s	Motor 5 HP (Wt. = 127 LBS.)	-50	024-24604-001
2 ^s	Blade	All	026-36901-000 30°
3	Guard	All	026-35605-001
4	Orifice	All	026-36141-000
5	Support, Motor, Lower	All	075-31616-000
6	Support, Motor, Right	All	075-31615-000
7	Support, Motor, Left	All	075-31614-000
8	Spacer, Fan Motor	All	075-29007-001
9	Screw, Cap	All	021-18019-000

^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.

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REFRIGERANT AND OIL PIPING COMPONENTS

**TABLE 4 – REFRIGERANT PIPING COMPONENTS (SEE FIG. 4, PAGE 11)
AND OIL PIPING COMPONENTS (SEE FIG. 5, PAGE 12)**

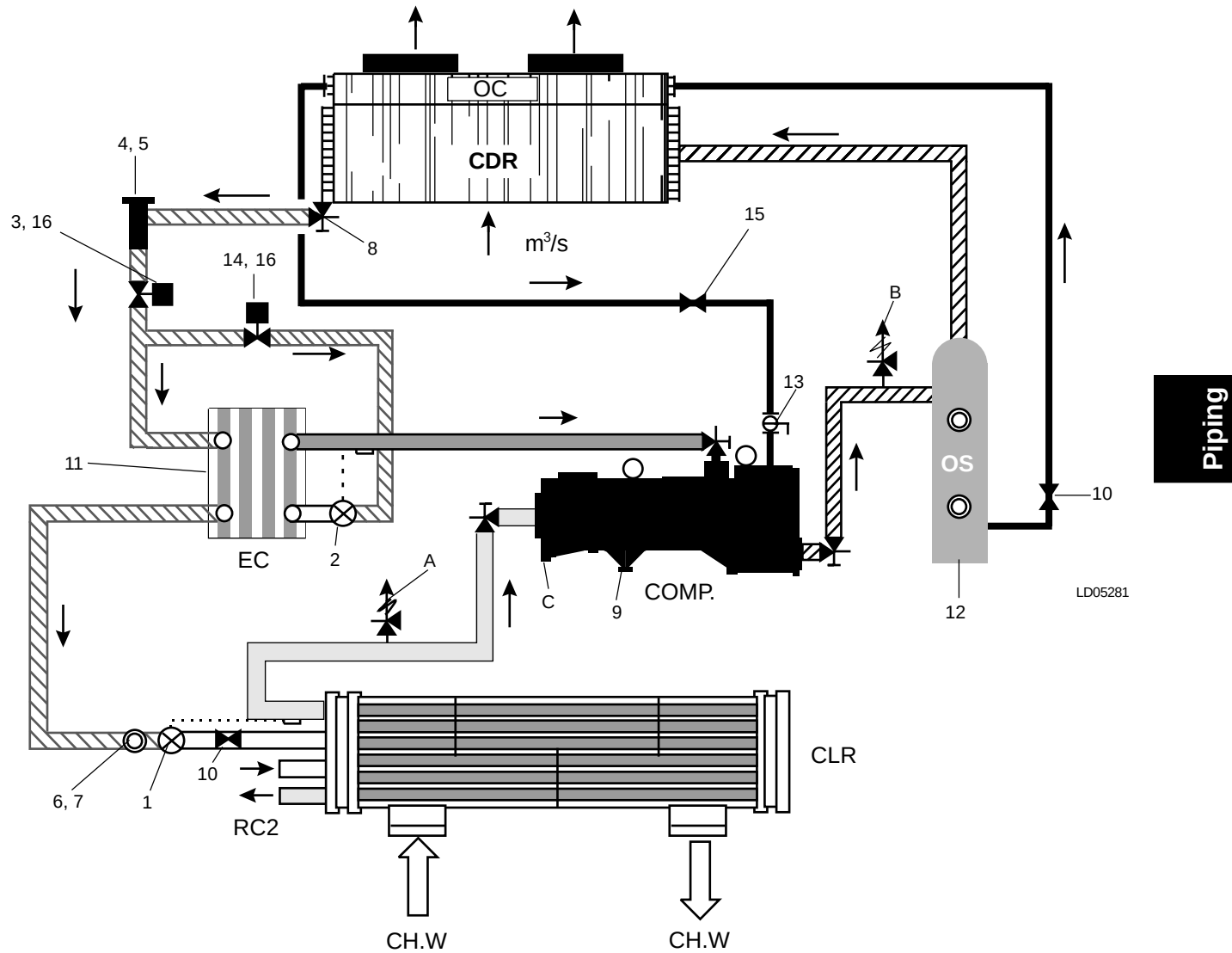
ITEM NO.	QTY PER UNIT	DESCRIPTION	SYSTEM	YCAS0373	YCAS0403	YCAS0453	YCAS0503	YCAS0543	YCAS0573	YCAS0623	YCAS0653
1 ^s	2	Valve, Thermal Exp.- Cooler	Both	025-32904	025-32904	025-35757	025-33280	025-33280	025-33280	025-33280	025-33280
2 ^s	1	Valve, Thermal Exp.- Econom.	Both	N/A	025-33280	N/A	025-33709	025-35757	025-33709	025-33709	025-33709
3	2	Valve, Solenoid, Liq. Line	Both	025-33704	025-33704	025-33704	025-33704	025-33704	025-33704	025-33704	025-33704
4	2	Dehydrator, Body (Replaceable Core)	Both	026-21055	026-21055	026-21055	026-21055	026-21055	026-21055	026-21055	026-21055
5 ^s	2	Core, Dehydrator	Both	026-37540	026-37540	026-37540	026-37540	026-37540	026-37540	026-37540	026-37540
6	2	Moisture Indicator, Body	Both	026-37545	026-37545	026-37545	026-37545	026-37545	026-37545	026-37545	026-37545
7	2	Moisture Indicator, Sight Glass Cap Assembly	Both	026-37548	026-37548	026-37548	026-37548	026-37548	026-37548	026-37548	026-37548
8	2	Valve, Liquid Stop	Both	022-09778	022-09778	022-09778	022-09778	022-09778	022-09778	022-09778	022-09778
9	2	Compressor	Both	See page 17.							
10	4	Valve, Charging 3/8"	Both	All Models – 022-09754-000							
11	1	Economizer, Heat X		N/A	026-34418	N/A	026-34418	026-34418	026-34418	026-34418	026-34418
12	2 per circuit*	Oil Separator	Right Side Left Side	All Models - Right Side: 075-23738-002 All Models - Left Side: 075-23738-001							
13	2	Valve, Ball, Oil Line	Both	022-09172	022-09172	022-09172	022-09172	022-09172	022-09172	022-09172	022-09172
14	2	Valve, Solenoid, Econo	Both	N/A	025-33282	N/A	025-33282	025-33282	025-33282	025-33282	025-33282
15	2	Sensor, Oil Temp.	All	All Models: 025-30440-000							
16 ^s	1	Coil, Solenoid Fits Items 3 & 14	Both	Select Vendor To Suit: Sporlan – 025-35151-000; Alco – 025-35152-000							

* Each REFRIGERANT Circuit has a right and left separator as viewed from the control panel end of the chiller.
Be sure to order the correct number when replacing separators.

^s Recommended Spare Part

REFRIGERANT AND OIL PIPING COMPONENTS (CONT'D)

CHILLER MODEL YCAS – STYLE F



A – LOW SIDE RELIEF
 * B – HIGH SIDE RELIEF
 C – HP CUTOUT SW

SEE TABLE 5, PAGE 14 FOR SAFETY COMPONENTS USED.

* Available on CE (European Manufactured) Units, or Units With Optional Chicago Relief Valves

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

REFRIGERANT AND OIL PIPING COMPONENTS (CONT'D) CHILLER MODEL YCAS – STYLE F

Piping

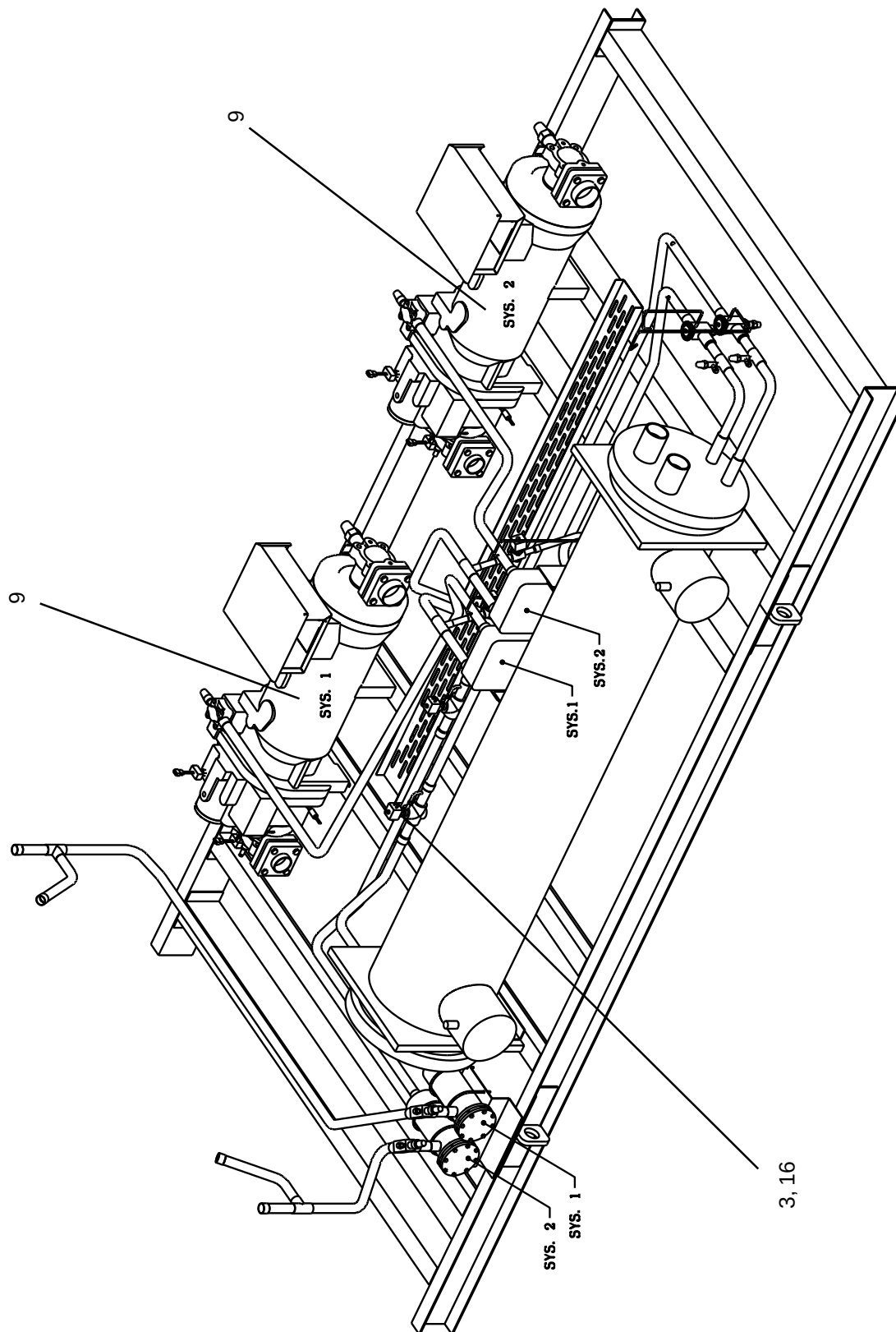


FIG. 5 – REFRIGERANT AND OIL PIPING COMPONENTS (REF. TABLE 4, PAGE 10)

REFRIGERANT AND OIL PIPING COMPONENTS (CONT'D)

CHILLER MODEL YCAS – STYLE F

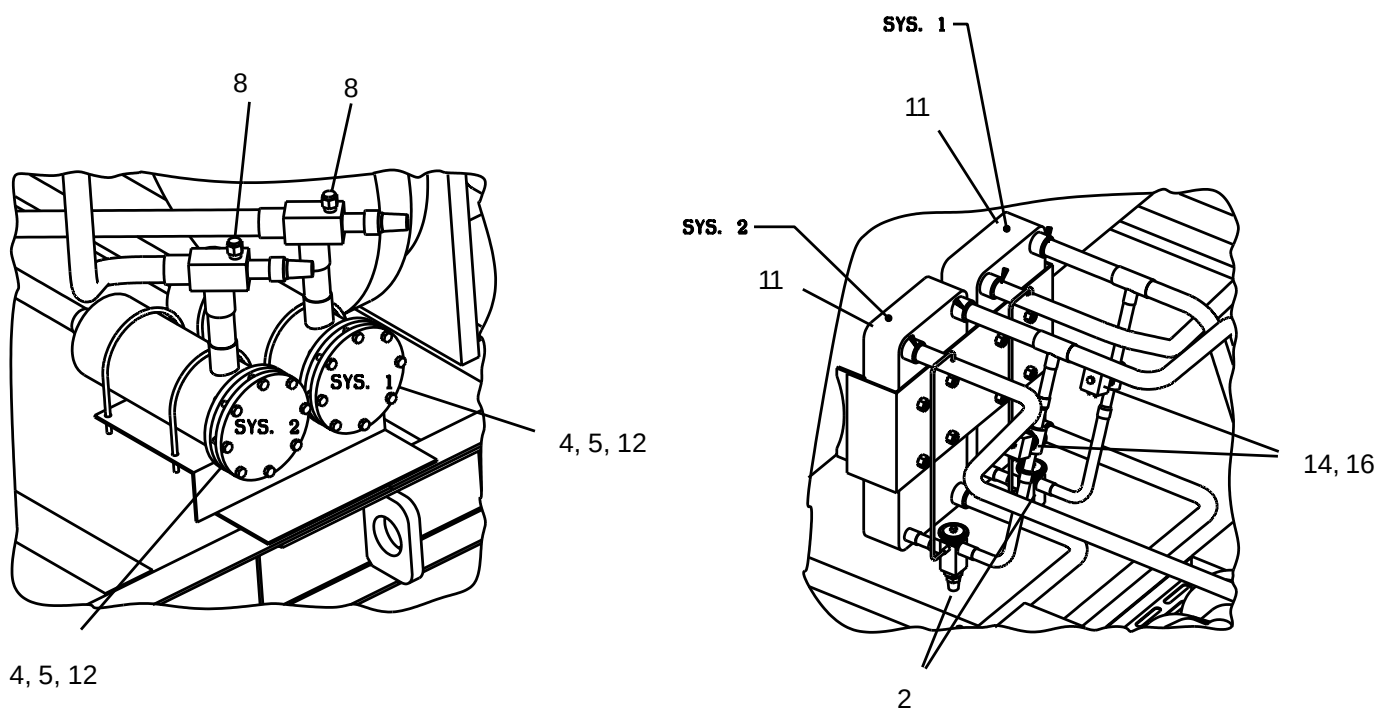
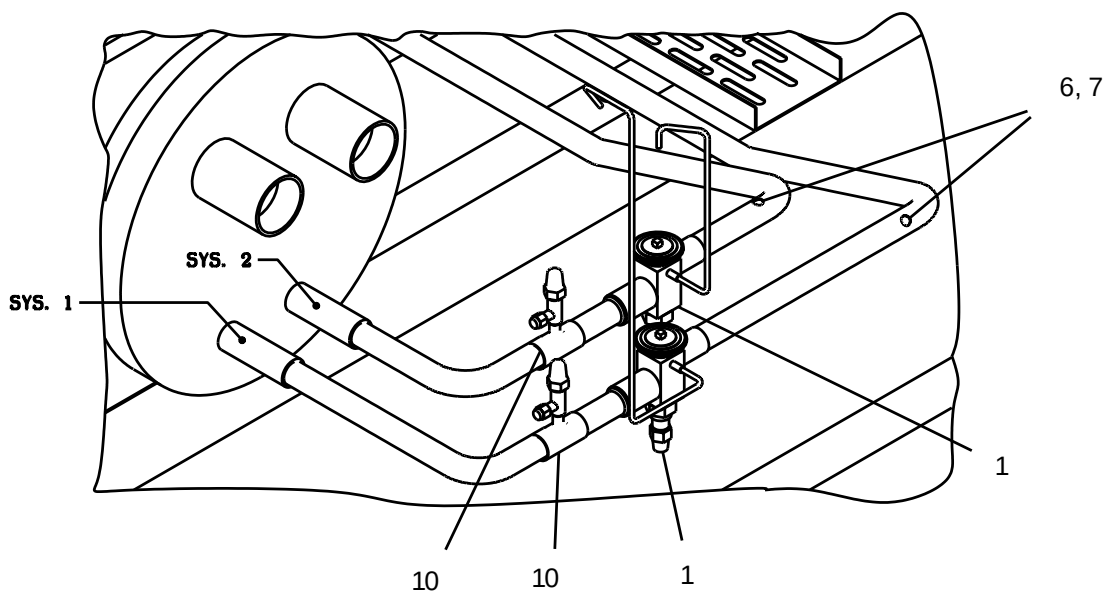


FIG. 5A – REFRIGERANT AND OIL PIPING COMPONENTS (REF. TABLE 4, PAGE 10)

RELIEF VALVES AND HP CUTOUT SWITCH

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

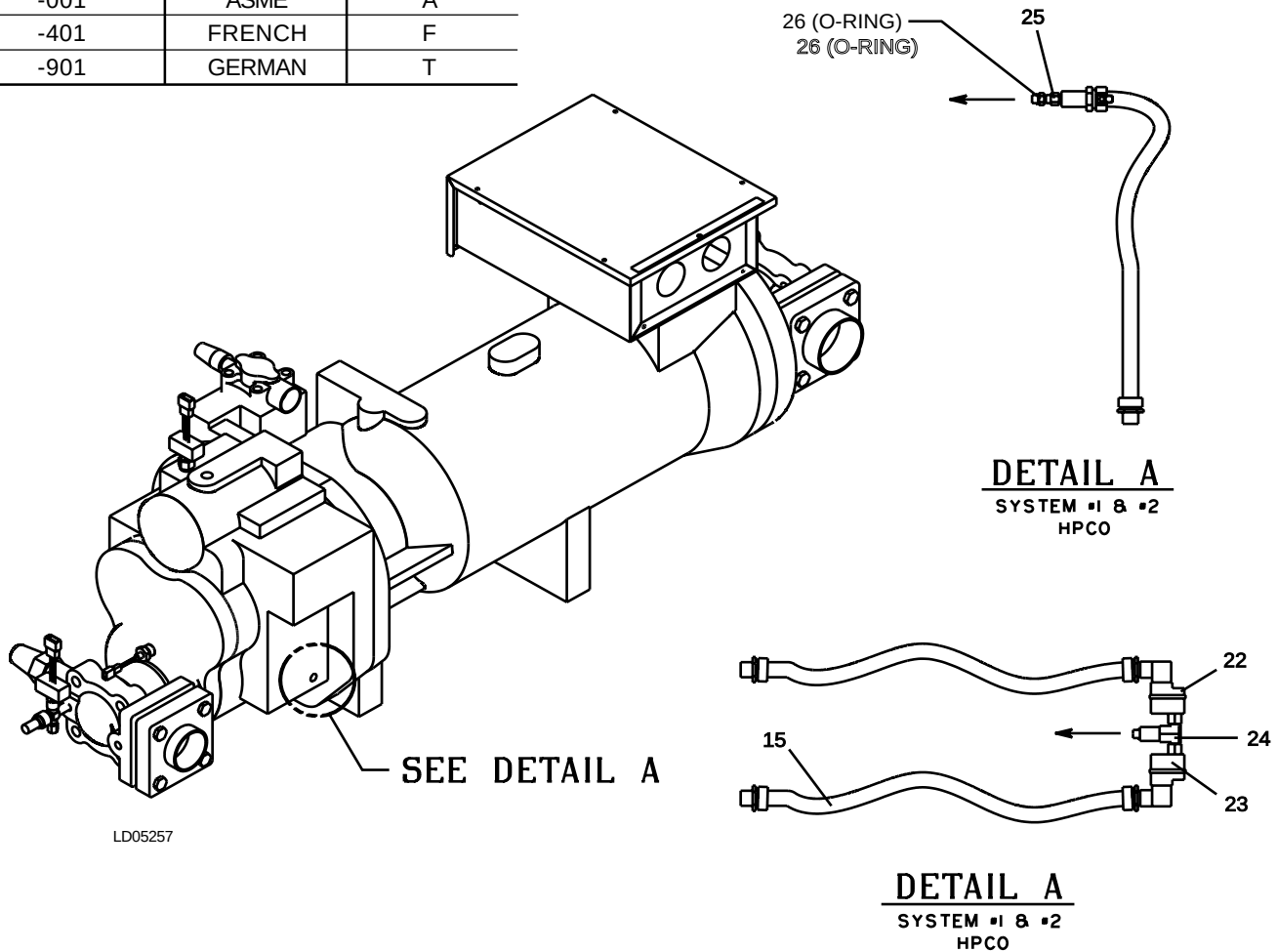
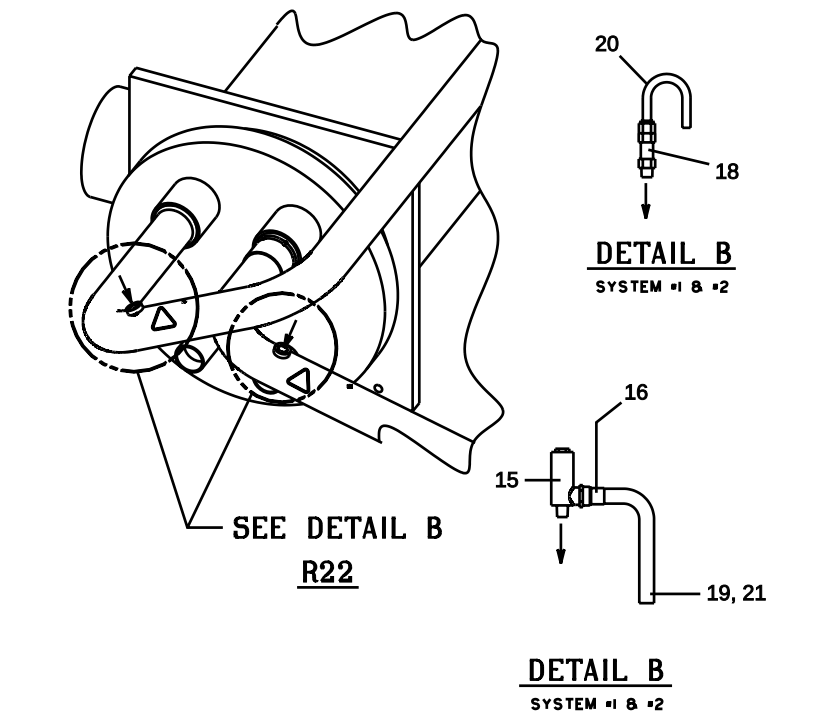


FIG. 6 – RELIEF VALVES AND HP CUTOUT SWITCH (REF. TABLE 5, PAGE 14)

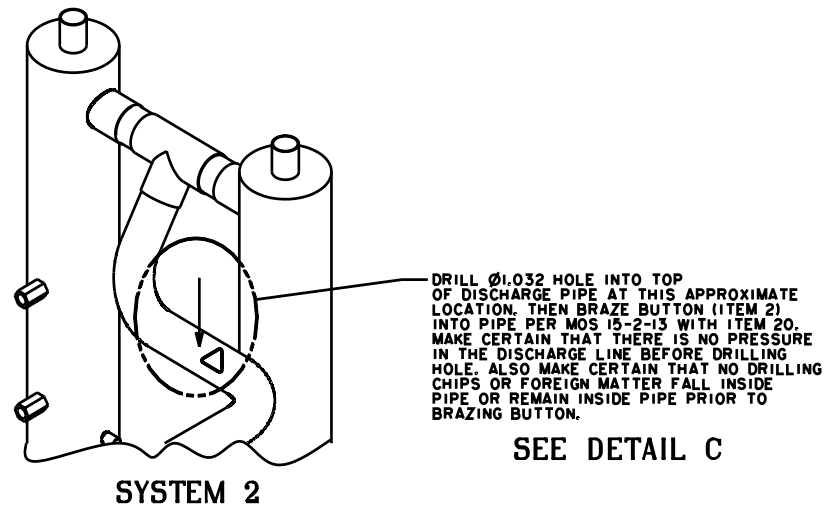
TABLE 5 – RELIEF VALVES AND HP CUTOUT SWITCH (SEE FIG. 6 AND 6A, PAGES 14 AND 15)

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	022-03056-000
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

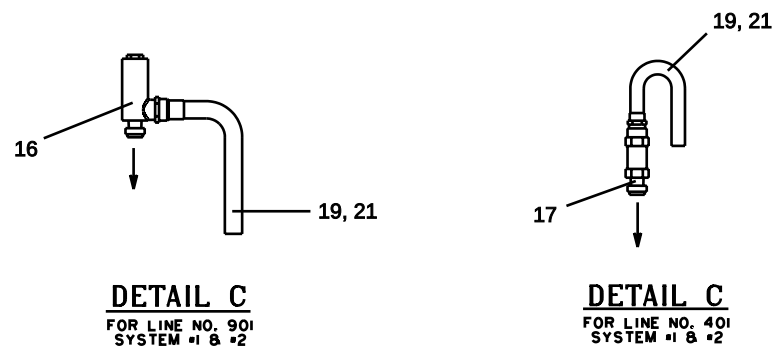
RELIEF VALVES AND HP CUTOUT SWITCH (CONT'D)



LD05269



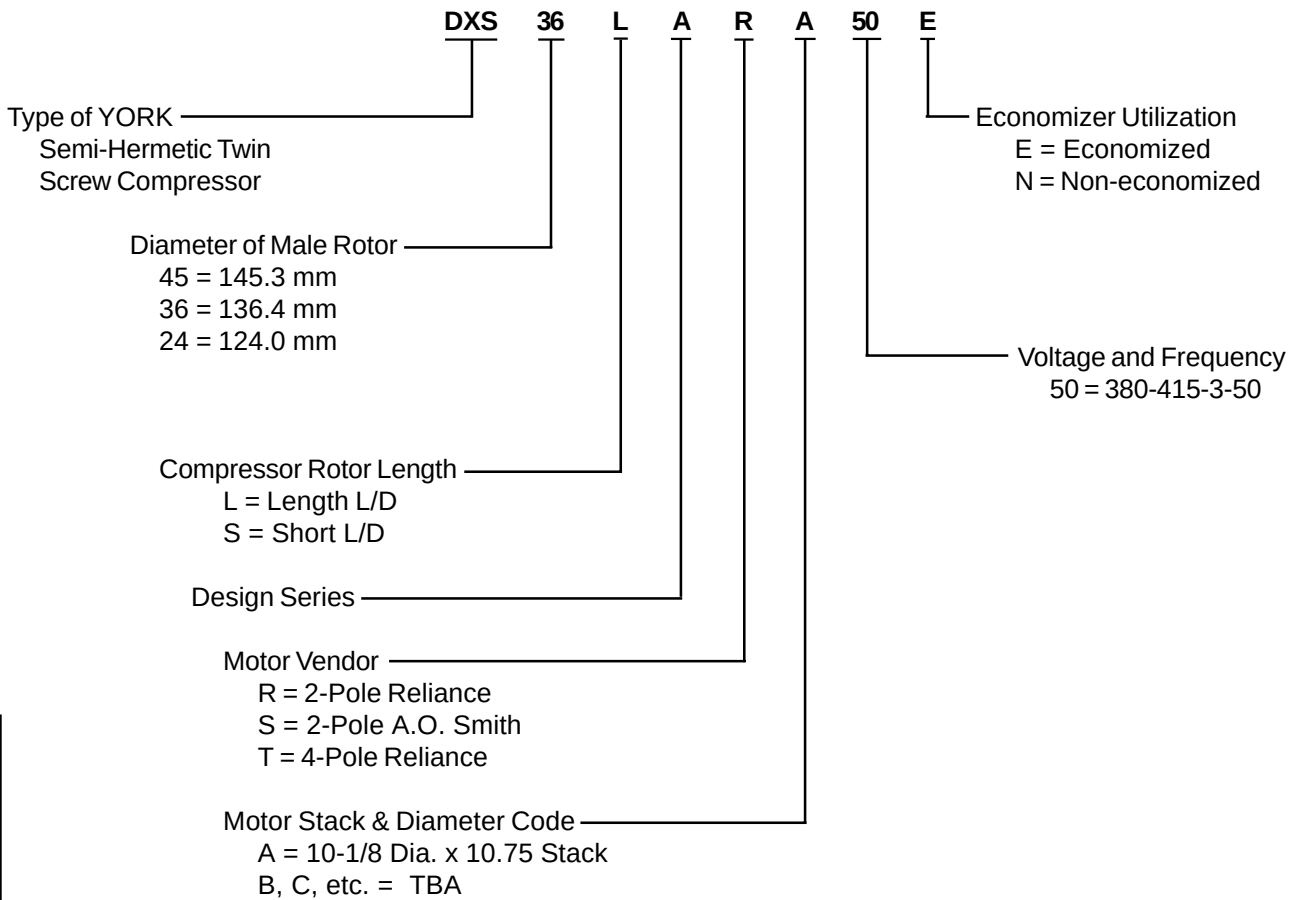
LD05270



LD05271

FIG. 6A – RELIEF VALVES AND HP CUTOUT SWITCH (REF. TABLE 5, PAGE 14)

COMPRESSOR MODEL NOMENCLATURE



COMPRESSOR WEIGHTS		
MM SIZE	WEIGHT (LBS)*	Kg
145	1310	594
136	1250	567
124	1175	533

*LESS SERVICE VALVES

- Compressor Isolator Pad Kit
(Reduces sound and vibration)
475-37815-000 one per each compressor
(Became standard mid 1999)

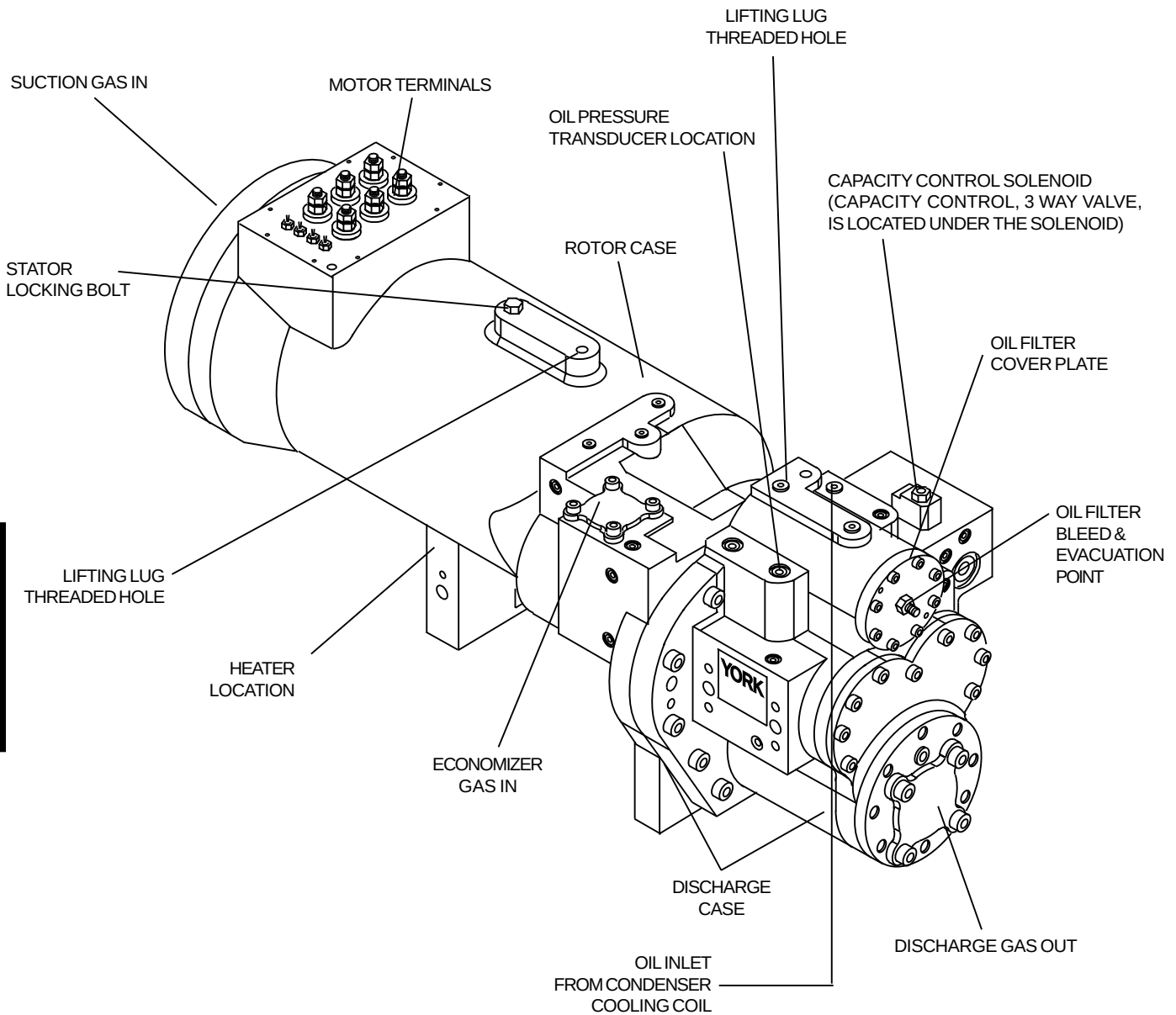
COMPRESSOR PART NUMBERS

UNIT	VOLTAGE CODE	MM SIZE		COMPRESSOR	
		SYS 1	SYS 2	SYSTEM # 1	SYSTEM # 2
YCAS0373	-50	124	124	364-49095-215	364-49095-215
YCAS0403	-50	124	124	364-49095-215	364-49095-215
YCAS0453	-50	136	136	364-49093-215	364-49093-215
YCAS0503	-50	136	136	364-49093-215	364-49093-215
YCAS0543	-50	136	136	364-49093-215	364-49093-215
YCAS0573	-50	145	145	364-49094-215	364-49094-215
YCAS0623	-50	145	145	364-49094-215	364-49094-215
YCAS0653	-50	145	145	364-49094-215	364-49094-215

Compressor Change Out kit – ALL Models – 464-49737-000 (Includes gaskets and o-rings)

Note: The -200 series compressors replace both the -000 (Non-Economized) and -100 (Economized) series compressors.

COMPRESSOR COMPONENTS



LD03668

FIG. 7 – DXS COMPRESSOR OUTLINE

COMPRESSOR COMPONENTS / RELATED PARTS

TABLE 6 – COMPRESSOR ASSEMBLY (SEE FIG. 8, PAGE 20)

ITEM NO.	PART DESCRIPTION	PART NUMBER
1	SCREW, SOCKET HD. CAP - M16 x 65mm LG.	021-19108-000
14	O-RING 3 - 908	028-13856-000
17	PLUG - HOLLOW HEX 9/16"	023-18922-000
18	O-RING 3 - 906	028-13855-000
19	PLUG - 0.032 ORIFICE	029-22716-000
20	PLUG - 0.093 ORIFICE	029-22717-000
21	PLUG, HOLLOW HEX - 3/4"	023-18923-000
22	O-RING 2 - 015	028-13858-000
23	VALVE, INTERNAL PRESSURE RELIEF	022-09711-000
25	PLUG - HOLLOW HEX 7/16"	023-18921-000
26	O-RING 3 - 904	028-13854-000
110	O-RING 2 - 138	028-13963-000
111	PLATE, VALVE COVER	064-50003-000
112	SCREW, SOCKET HD. CAP - M12 x 35mm LG.	021-30148-000
113	O-RING 2 - 278	028-13853-000
114	BEARING, FEMALE INLET	029-22704-000
115	RETAINING RING, FEMALE ROTOR	029-22721-000
116	ROTOR, FEMALE (124MM)	064-48976-000
	ROTOR, FEMALE (136MM)	064-48971-000
	ROTOR, FEMALE (145MM)	064-48974-000
117	SPRING, CAPACITY CONTROL	028-00738-000
118	PISTON, CAPACITY CONTROL	064-49128-000
119	BEARING, MALE INLET	029-22702-000
120	RETAINING RING, MALE ROTOR	029-22720-000
121	KEY, MOUNTING	029-22701-000
122	ROTOR, MALE (124MM)	064-48975-000
	ROTOR, MALE (136MM)	064-48972-000
	ROTOR, MALE (145MM)	064-48973-000
123	CASE, ROTOR/MOTOR (124MM)	064-48989-000
	CASE, ROTOR/MOTOR (136MM)	064-48988-000
	CASE, ROTOR/MOTOR (145MM)	064-49120-000

- Compressor Change Out Kit
(Includes gaskets and O-Rings)
464-49737-000 one per compressor

ITEM NO.	QTY PER COMP	DESCRIPTION	MODEL YCAS0373 - YCAS0653
50 ^S	1	FILTER,OIL	026-35601-000
69 ^S	1	O-RING	028-13849-000
OIL ^S	5 GAL	OIL, TYPE L POE	011-00592-000

^SRecommended Spare Part

COMPRESSOR COMPONENTS / RELATED PARTS (CONT'D)

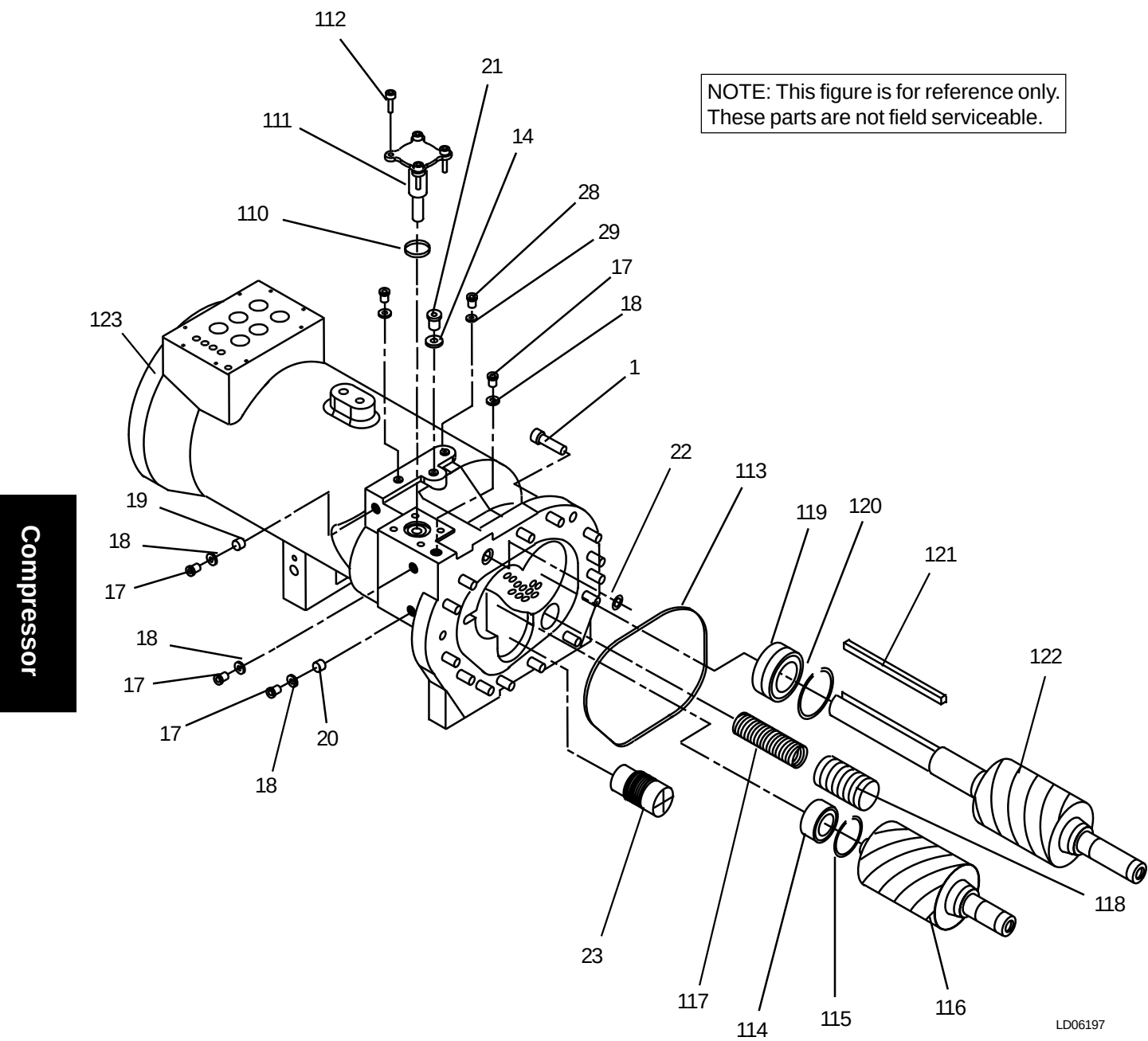
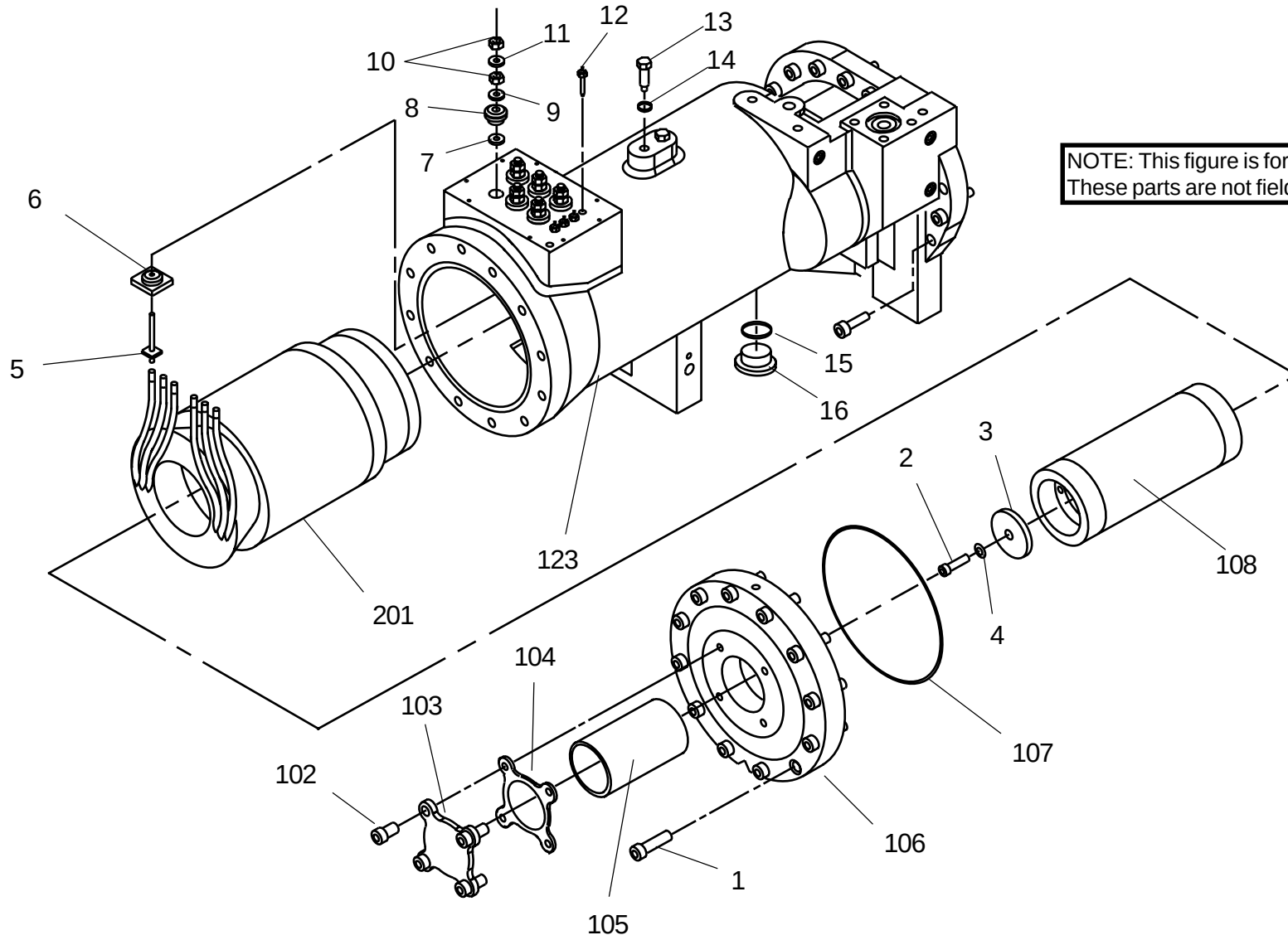


FIG. 8 – DXS COMPRESSOR PARTIAL EXPLODED VIEW

DXS COMPRESSOR COMPONENTS / RELATED PARTS - CONT'D

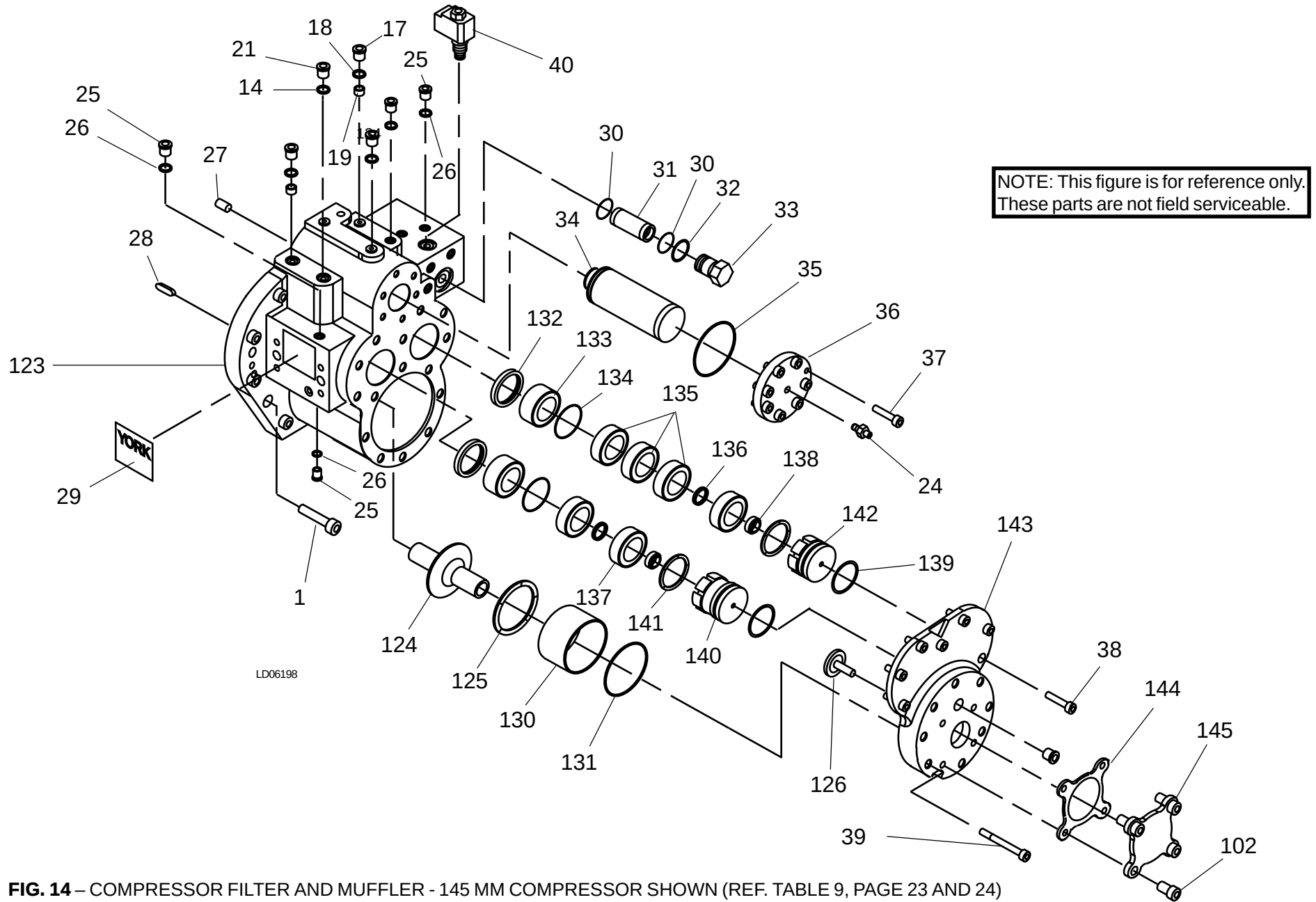


NOTE: This figure is for reference only.
These parts are not field serviceable.

LD06199

FIG. 13 – COMPRESSOR COMPONENTS - 145 MM COMPRESSOR SHOWN (REF. TABLE 9, PAGE 23 AND 24)

DXS COMPRESSOR COMPONENTS / RELATED PARTS - CONT'D



DXS COMPRESSOR COMPONENTS / RELATED PARTS (CONT'D)

TABLE 7 – COMPRESSOR ASSEMBLY (SEE FIGS. 9 AND 10, PAGES 21, 21A, 21B AND 22)

ITEM NO.	PART DESCRIPTION	PART NUMBER
1	SCREW, SOCKET HD. CAP - M16 x 65mm LG.	021-19108-000
2	SCREW, SOCKET HD. CAP - M12 x 45mm LG.	021-19116-000
3	WASHER, LOCK - M12	021-19106-000
4	WASHER, CLAMP	064-48893-000
5	BOLT, TERMINAL	021-19104-000
6	INSULATOR, BOTTOM	025-33200-000
7	SEAL, TERMINAL	028-13946-000
8	INSULATOR, TOP	025-33201-000
9	WASHER, TERMINAL	021-19117-000
10	NUT, HEAVY HEX - 7/16" - 20UNF	021-19102-000
11	WASHER, LOCK - 7/16"	021-19619-000
12	THERMISTOR, 7/16" - 20UNF - 2A	025-33202-000
13	PIN, STATOR LOCKING	064-49954-000
14	O-RING 3 - 908	028-13856-000
15	PLUG, HOLLOW HEX - 1 7/8"	023-18926-000
16	O-RING 3 - 924	028-13865-000
22	O-RING 2 - 015	028-13858-000
23	VALVE, INTERNAL PRESSURE RELIEF	022-09711-000
24	VALVE, ACCESS 7/16"	022-09715-000
25	PLUG, HOLLOW HEX - 7/16"	023-18921-000
26	O-RING 3 - 904	028-13854-000
27	PIN, DOWEL - 12mm x 40mm LG.	029-22713-000
28	PIN, DOWEL - 12mm x 40mm LG. SPEC.	029-22712-000
29	PLATE, DATA	029-22722-000
30	O-RING 2 - 023	028-13859-000
31	VALVE, OIL CONTROL	022-09710-000
32	O-RING 3 - 916	028-13857-000
33	PLUG, OIL RETURN VALVE	064-49135-000
34	ELEMENT, OIL FILTER	026-35601-000
35	O-RING 2 - 152	028-13849-000
36	COVER, OIL FILTER	064-49003-000
37	SCREW, SOCKET HD. CAP - M8 x 30mm LG.	021-19115-000
38	SCREW, SOCKET HD. CAP - M10 x 45mm LG.	021-19112-000
39	SCREW, SOCKET HD. CAP - M10 x 60mm LG.	021-19113-000
40	VALVE, CAPACITY CONTROL	025-33205-000
102	SCREW, SOCKET HD. CAP - M16 x 30mm LG.	021-19118-000
103	PLATE, VALVE COVER	064-49009-000
104	GASKET, 3 1/2"	028-13864-000
105	STRAINER, SUCTION	026-35600-000
106	COVER, SUCTION	064-49198-000
107	O-RING 2 - 276	028-13852-000

DXS COMPRESSOR COMPONENTS / RELATED PARTS (CONT'D)

TABLE 7 (CONT'D) – COMPRESSOR ASSEMBLY (SEE FIGS. 9 AND 10, PAGES 21, 21A, 21B AND 22)

ITEM NO.	PART DESCRIPTION	PART NUMBER
108	MOTOR, ROTOR	024-30470-000
109	CASE, ROTOR/MOTOR	064-49120-000
111	PLUG, ECONOMIZER	064-50003-000
114	BEARING, FEMALE INLET	029-22704-000
115	RETAINING RING, FEMALE ROTOR	029-22721-000
116	ROTOR, FEMALE (124MM)	064-48976-000
	ROTOR, FEMALE (136MM)	064-48971-000
	ROTOR, FEMALE (145MM)	064-48974-000
117	SPRING, CAPACITY CONTROL	028-00738-000
118	PISTON, CAPACITY CONTROL	064-49128-000
119	BEARING, MALE INLET	029-22702-000
120	RETAINING RING, MALE ROTOR	029-22720-000
121	KEY, MOUNTING	029-22701-000
122	ROTOR, MALE (124MM)	064-48975-000
	ROTOR, MALE (136MM)	064-48972-000
	ROTOR, MALE (145MM)	064-48973-000
123	CASE, ROTOR/MOTOR (124MM)	064-48989-000
	CASE, ROTOR/MOTOR (136MM)	064-48989-000
	CASE, ROTOR/MOTOR (145MM)	064-49097-000
124	ORIFICE, MUFFLER	064-49516-000
125	SPRING, MUFFLER PRELOAD	029-22904-000
126	BUTTON, CHECK VALVE	064-49504-000
130	SPACER, MUFFLER	064-49513-000
131	O-RING 2 - 161	028-13851-000
132	SEAL, LIP	028-13860-000
133	BEARING, RADIAL	029-22723-000
134	SHIM, SPACER	029-22992-000
135	BEARING, THRUST	029-22724-000
136	SHIM, REVERSE THRUST SPACER	029-22719-000
137	BEARING, REVERSE THRUST	029-22707-000
138	NUT, BEARING CLAMP	021-19120-000
139	O-RING 2 - 154	028-13867-000
140	SLEEVE, FEMALE ROTOR BEARING SPACER	064-49130-000
141	SPRING, BEARING PRELOAD	029-22708-000
142	SLEEVE, MALE ROTOR BEARING SPACER	064-49131-000
143	COVER, DISCHARGE	064-49005-000
144	GASKET, 3"	028-13863-000
145	PLATE, VALVE COVER	064-49008-000
201	MOTOR, STATOR -50	024-30469-005

COMPRESSOR AND CONTROL COMPONENTS

TABLE 8 – COMPRESSOR AND CONTROL COMPONENTS (SEE FIG. 11)

ITEM NUMBER	QUANTITY	SYSTEM	DESCRIPTION	VOLTAGE CODE	PART NUMBER
13	2	1, 2 and 3	Lock Pin, Stator, EC 1099	ALL	064-49129-000
14	2	1, 2 and 3	O-ring, Lock Pin	ALL	028-13856-000
40 ^s	2	1, 2 and 3	Valve, Capacity Control	ALL	025-33205-000
204	1	1, 2 and 3	Heater, Compressor (145MM)	120V	025-32938-000
			Heater, Compressor (136MM)	120V	025-32938-000
			Heater, Compressor (124MM)	120V	025-32938-000

^s Recommended Spare Part

TABLE 9 – COMPRESSOR STOP VALVES AND GASKETS

COMPRESSOR	LOCATION	DESCRIPTION	VALVE (22)	GASKET (23)
124mm	Suct.	Stop Valve - 2 5/8	022-09777-001	028-13863-000
	Disc.	Stop Valve - 2 1/8	022-01393-001	028-13902-000
	Econ.	Stop Valve - 1 3/8	022-03727-002	028-13862-000
136mm	Suct.	Stop Valve - 3 5/8	022-02845-001	028-13864-000
	Disc.	Stop Valve - 2 5/8	022-09777-001	028-13863-000
	Econ.	Stop Valve - 1 3/8	022-03727-002	028-13862-000
145mm	Suct.	Stop Valve - 3 5/8	022-02845-001	028-13864-000
	Disc.	Stop Valve - 2 5/8	022-09777-001	028-13863-000
	Econ.	Stop Valve - 1 3/8	022-03727-002	028-13862-000

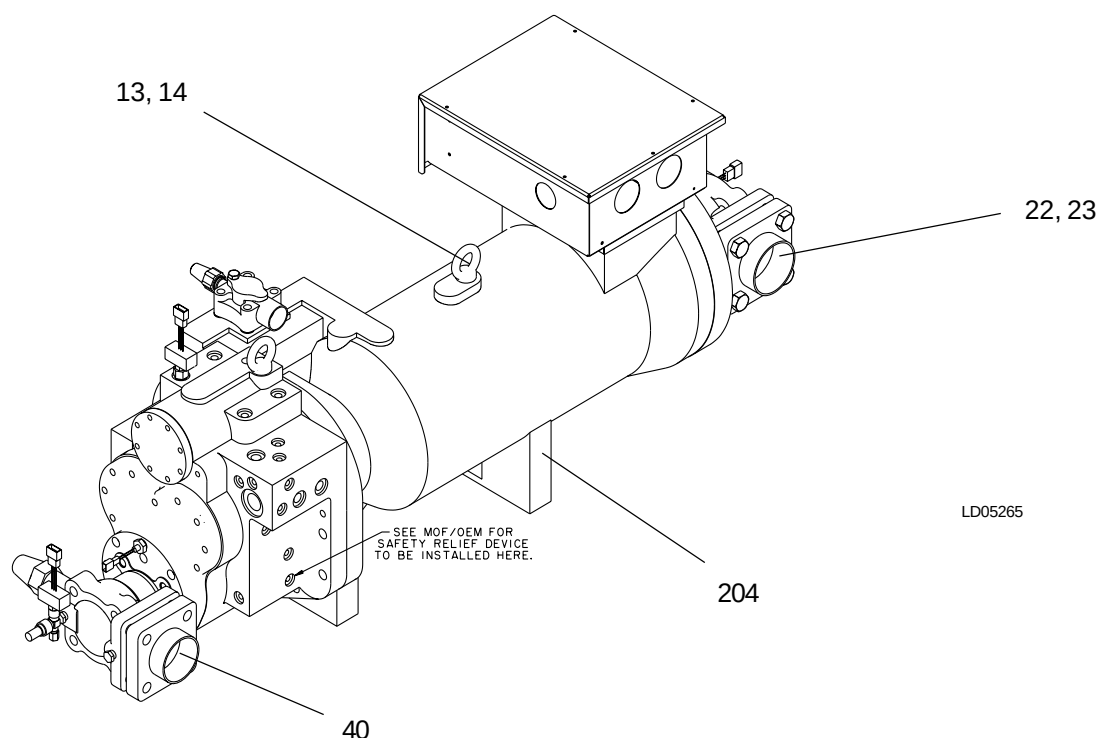


FIG. 11 – COMPRESSOR AND CONTROL COMPONENTS (REF. TABLES 8 AND 9)

CONTROL PANEL COMPONENTS

TABLE 10 – CONTROL PANEL COMPONENTS (SEE FIGS. 12 AND 13, PAGES 27, 27A, 27B, AND 28)

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	115V / 24V
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	
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	115V / 24V
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	
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	031-01798-001	
35	1	Label, Caution	035-15989-000	
36	1	Label, Warning	035-11929-000	
37	2	Connector, Cable Strap	025-12282-000	
38	1	I/O Expansion Board	031-01781-000	
39	1	Ribbon Cable	071-02253-254	
40	-	Plug, 6 Pin (Microboard)	025-28382-000	See Page 31
41	-	Plug, 9 Pin (Microboard)	025-28383-000	See Page 31
42	-	Plug, 12 Pin (Microboard)	025-28384-000	See Page 31
43	-	Socket, Wire End	025-28386-000	Use with Plugs 40, 41, and 42

^s Recommended Spare Part

CONTROL PANEL COMPONENTS - CONT'D

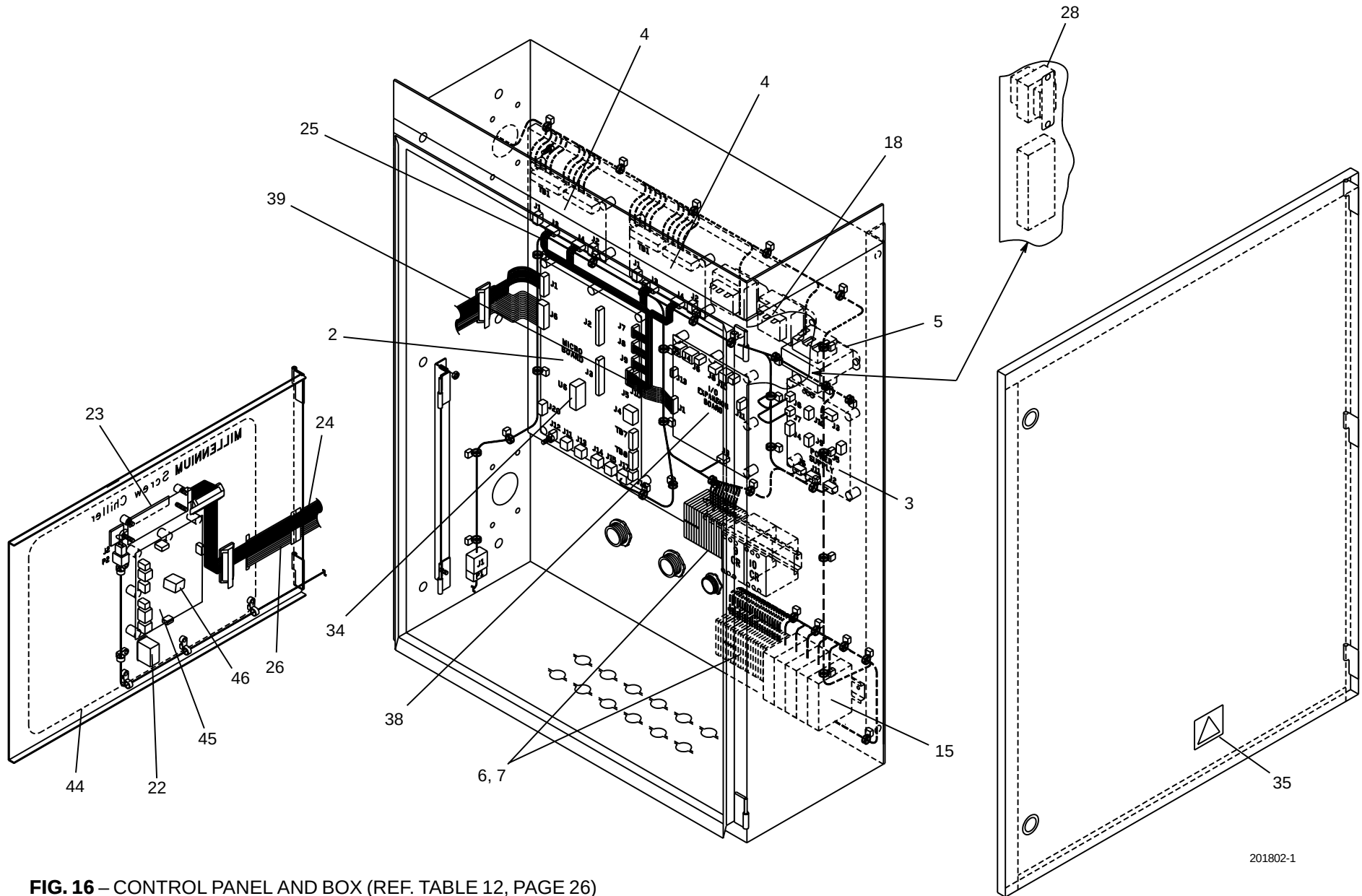


FIG. 16 – CONTROL PANEL AND BOX (REF. TABLE 12, PAGE 26)

Control Panel

201802-1

CONTROL PANEL COMPONENTS - CONT'D

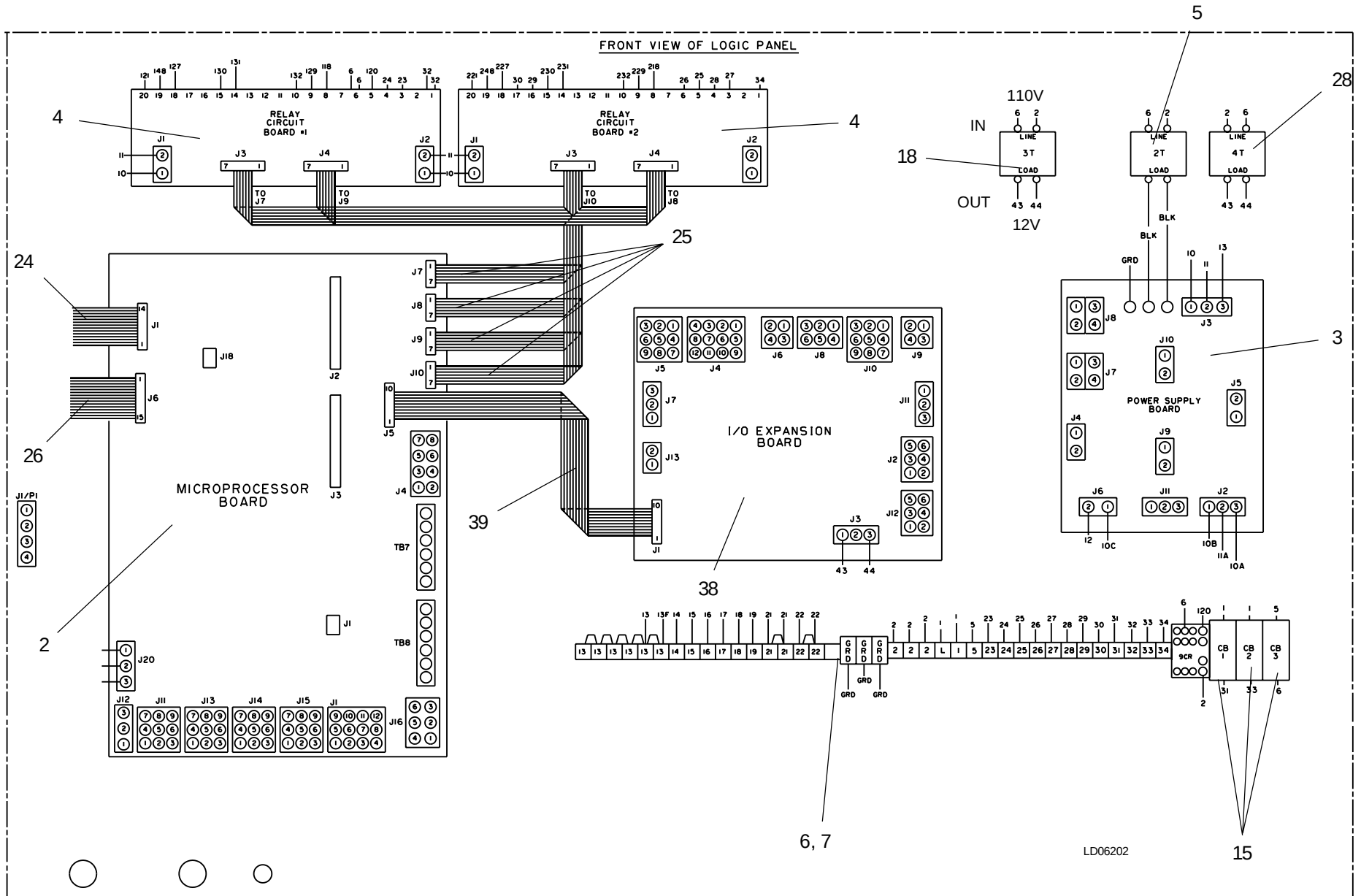
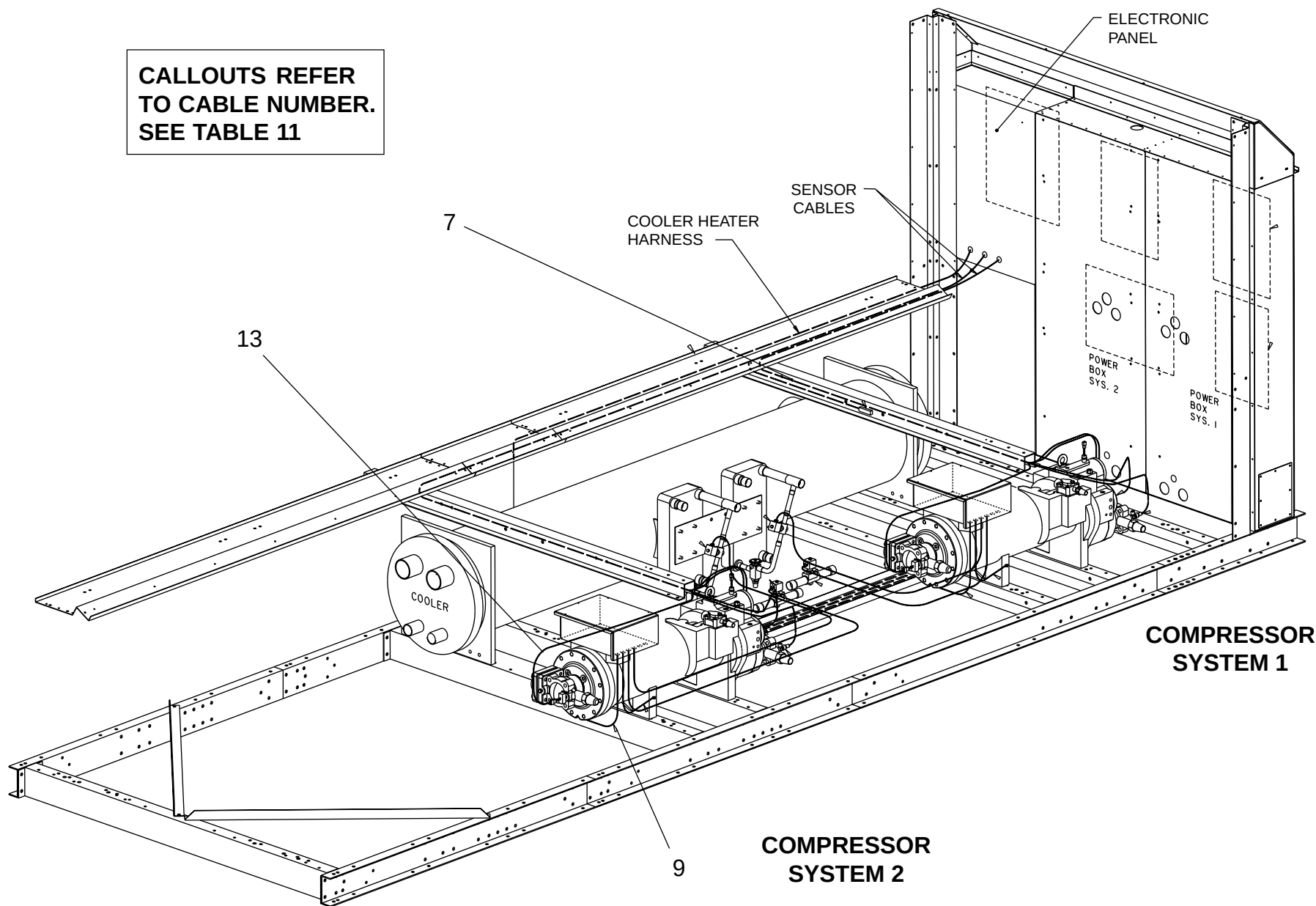


FIG. 17 – CONTROL PANEL CONNECTION DIAGRAM (REF. TABLE 12, PAGE 26)

**CALLOUTS REFER
TO CABLE NUMBER.
SEE TABLE 11**



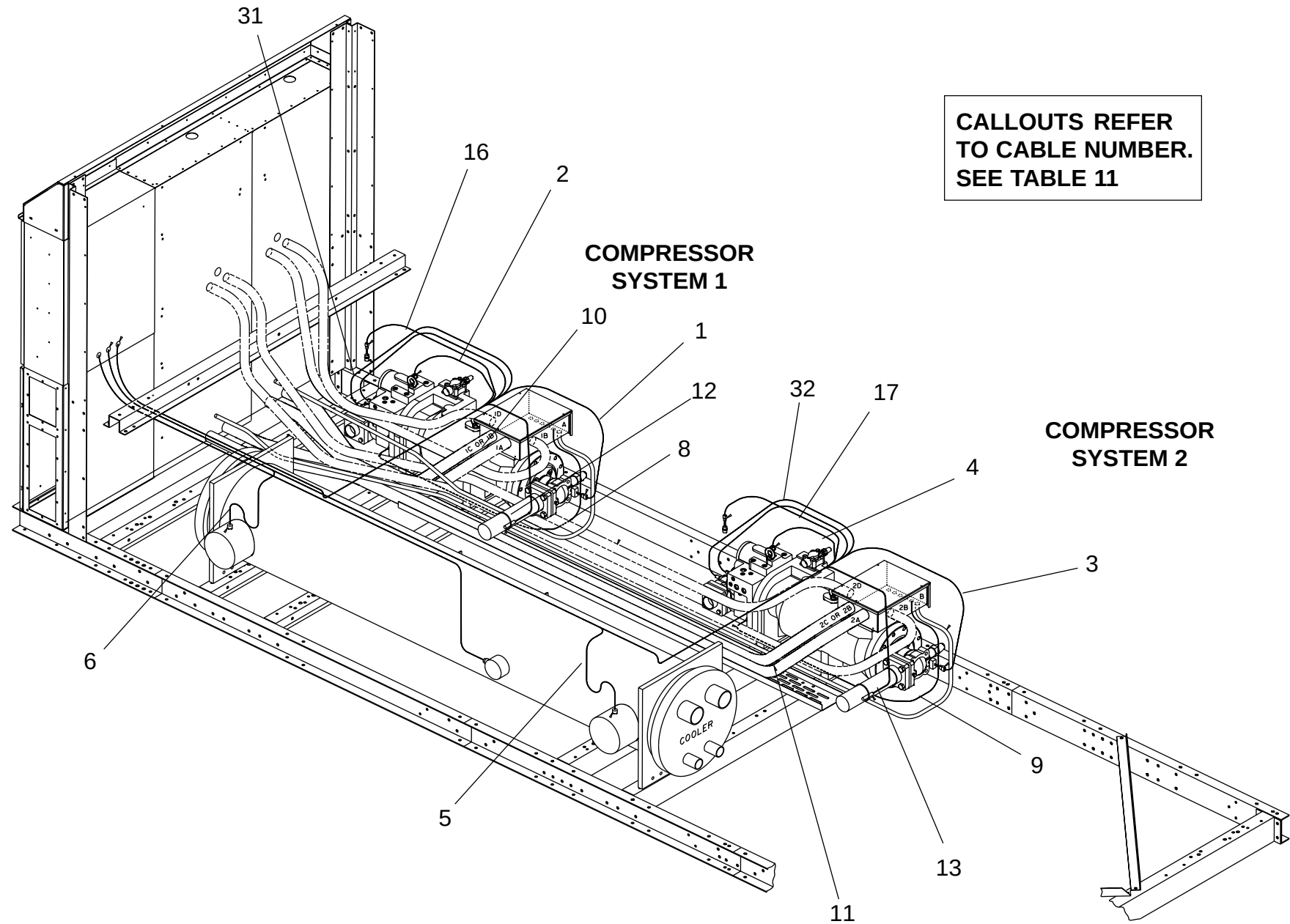
SENSOR HARNESS

FIG. 14 – HARNESS LAYOUT (REF. TABLE 11, PAGE 31)

Control Panel

LD05260

CALLOUTS REFER
TO CABLE NUMBER.
SEE TABLE 11



SENSOR HARNESS (CONT'D)

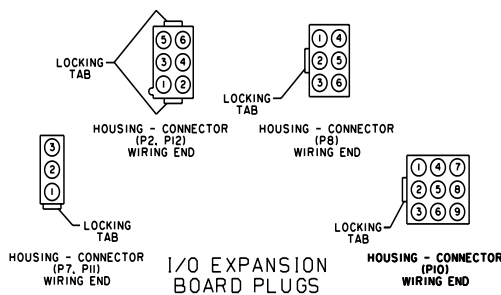
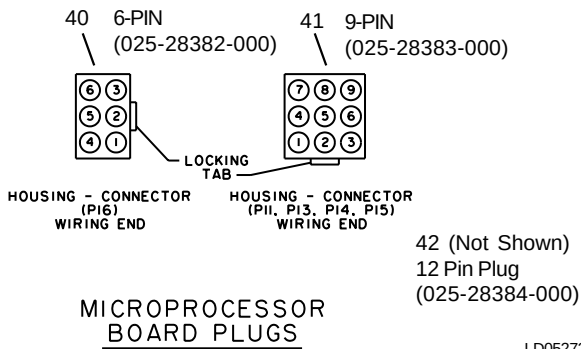
FIG. 15 – HARNESS LAYOUT (REF. TABLE 11, PAGE 31)

SENSOR HARNESS (CONT'D)

TABLE 11 – SENSOR HARNESS WIRING (SEE FIGS. 14 AND 15, PAGES 29 AND 30)

BOARD LOCATION	CABLE ITEM NO.	CABLE NO.	WIRE COLOR	PLUG PIN NO.	FUNCTION	HARNESS ASSY
MICRO J13	102	1	RED	4	SYS #1 SUCTION PRESSURE	371-02253-231
			BLK	1		
			WHT	7		
			DRAIN	2		
	104	2	RED	5	SYS #1 OIL PRESSURE	371-02253-233
			BLK	3		
			WHT	8		
MICRO J14	103	3	DRAIN	9	SYS #2 SUCTION PRESSURE	371-02253-232
			RED	4		
			BLK	1		
			WHT	7		
	105	4	DRAIN	2	SYS #2 OIL PRESSURE	371-02253-234
			RED	5		
MICRO J11	112	5	BLK	3	LEAVING CHILLED WATER	371-02253-246
			DRAIN	9		
			RED	4		
			WHT	7		
	113	6	DRAIN	2	ENTERING CHILLED WATER	371-02253-247
			RED	8		
MICRO J15	107	9	BLK	5	SYS #2 DISCH. PRESSURE	371-02253-236
			DRAIN	2		
			RED	5		
			WHT	8		
	106	8	DRAIN	9	SYS #1 DISCH. PRESSURE	371-02253-235
			RED	5		
MICRO J16	108	10	BLK	6	SYS #1 SUCTION TEMP.	371-02253-241
			DRAIN	1		
			RED	2		
			BLK	4		
	109	11	DRAIN	3	SYS #2 SUCTION TEMP.	371-02253-242
			RED	4		
I/O J10	100	16	DRAIN	3	SYS #1 OIL TEMP.	371-02253-221
			RED	4		
			BLK	7		
			DRAIN	3		
	101	17	RED	5	SYS #2 OIL TEMP.	371-02253-222
			BLK	6		
I/O J8	110	12	DRAIN	2	SYS #1 DISCH. TEMP.	371-02253-243
			RED	2		
			BLK	4		
			DRAIN	1		
	111	13	RED	5	SYS #2 DISCH. TEMP.	371-02253-244
			BLK	6		
			DRAIN	3		
BOARD LOCATION	CABLE ITEM NO.	CABLE NO.	WIRE COLOR	PLUG PIN NO.	FUNCTION	HARNESS ASSY
I/O P2	117	31	RED (47)	1	SYS #1 SLIDE VALVE	371-02253-283
			BLK (48)	2		
			DRAIN	6		
I/O P12	118	32	RED (49)	1	SYS #1 SLIDE VALVE	371-02253-284
			BLK (50)	2		
			DRAIN	6		
I/O P11	115	29	RED	1	SYS #1 COOLER INLET REFRIG. TEMP. SENSOR (R407C ONLY)	371-02253-281
			BLK	2		
			DRAIN	3		
I/O P7	116	30	RED	1	SYS #2 COOLER INLET REFRIG. TEMP. SENSOR (R407C ONLY)	371-02253-282
			BLK	2		
			DRAIN	3		

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


FIG. 16 – SENSOR HARNESS WIRING (SEE FIGS. 14 AND 15, PAGES 29 AND 30)

TRANSDUCERS AND TEMP SENSORS

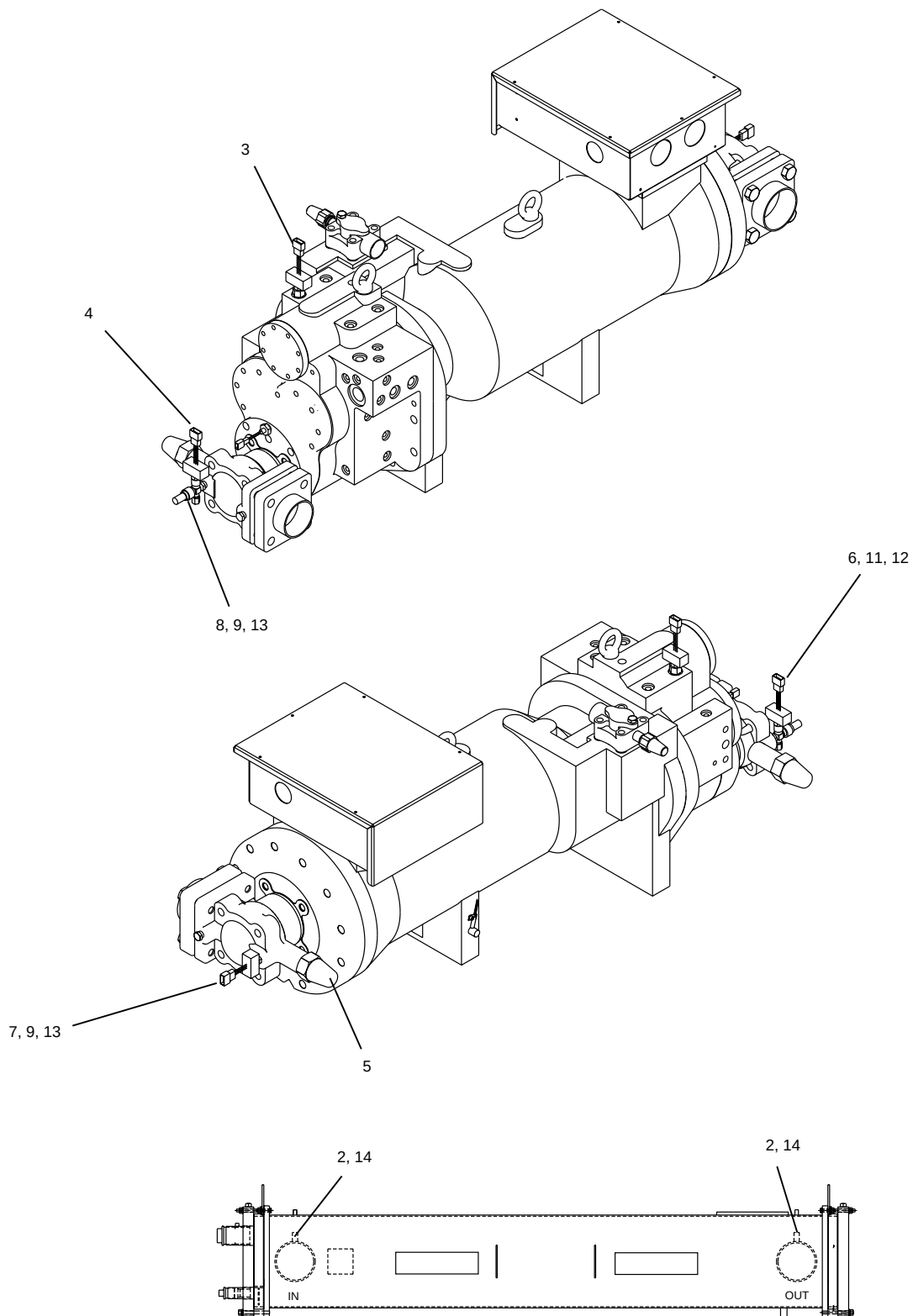


FIG. 17 – TRANSDUCERS AND TEMP SENSORS (REF. TABLE 12, PAGE 33)

TRANSDUCERS AND TEMP SENSORS (CONT'D)

TABLE 12 – TRANSDUCERS AND TEMP SENSORS (SEE FIG. 17, PAGE 32)

ITEM NUMBER	QUANTITY	SYSTEM	DESCRIPTION	VOLTAGE CODE	PART NUMBER
^s 1	1	Unit	Sensor, Outside Air (OAT)	ALL	025-28663-001
^s 2	2	Unit	Sensor, Water Temp.	ALL	025-29964-000
^s 3	2	1, 2	Sensor, Oil Temp.	ALL	025-30440-000
^s 4	2	1, 2	Sensor, Disc. Temp.	ALL	025-32924-000
^s 5	2	1, 2	Sensor, Suction Temp.	ALL	025-28935-000
^s 6	2	1, 2	Switch, High Press. Cutout	ALL	025-30480-000
^s 7	2	1, 2	Transducer 0-200 PSI	ALL	025-29583-000
^s 8	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	022-09754-000
11	2	1, 2	Adaptor, Mounting (Includes Item 12) (Use with Item 6)	ALL	023-18087-000
12	4	1, 2	O-Ring (Use with Item 11)	ALL	028-13540-000
13	6	1, 2	Bushing (Use with Items 6 and 7)	ALL	023-18052-000
14	1	Unit	Compound, Heat Conductive (Use with Item 2)	ALL	013-00898-000

^s Recommended Spare Part

TRANSDUCER, TEMPERATURE SENSOR AND WIRE HARNESS CONNECTORS - FIELD REPLACEMENT PART NUMBERS

TABLE 13 – TRANSDUCER, TEMPERATURE SENSOR AND WIRE HARNESS CONNECTORS - FIELD REPLACEMENT PART NUMBERS - (SEE FIG. 18)

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

Control Panel

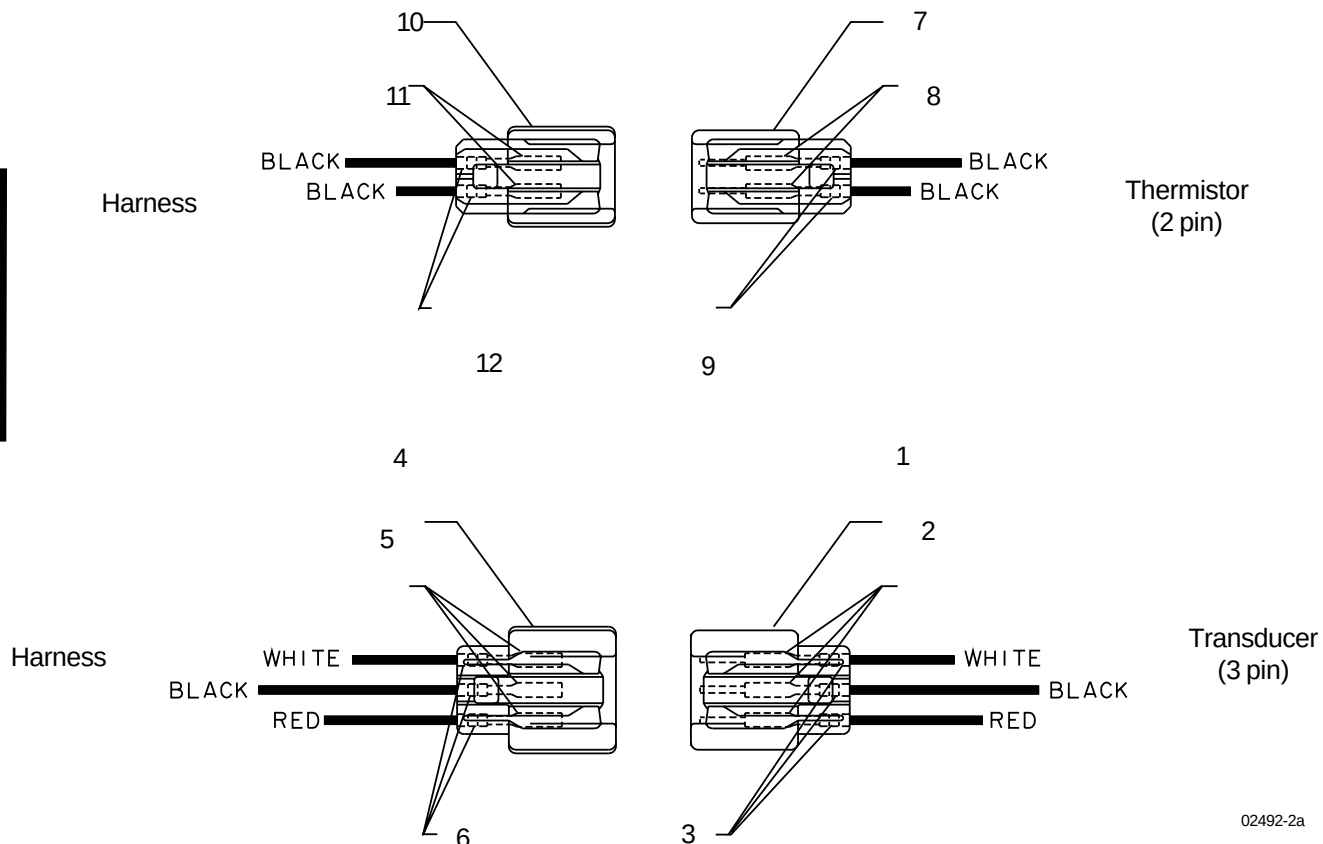


FIG. 18 – TRANSDUCER, TEMPERATURE SENSOR AND WIRE HARNESS CONNECTORS - FIELD REPLACEMENT PART NUMBERS - (REF. TABLE 13)

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Power Panel



MP Terminals B & G are polarity sensitive.

36

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 HIGHLIGHTED ROW ON THE 'POWER PANEL COMPONENTS-ACROSS THE LINE' TABLE, PAGES 38 AND 39, FIG. 19 ON PAGE 36)

Model	Power Panel with Terminal Block	Power Panel with Separate System Circuit Breakers	Power Panel with Separate System NF Disconnect Switches
	Panel Number	Panel Number	Panel Number
YCAS0373E-50XF	371-02302-153	371-02302-253	371-02302-353
YCAS0403E-50XF	371-02302-153	371-02302-253	371-02302-353
YCAS0453E-50XF	371-02302-152	371-02302-252	371-02302-352
YCAS0503E-50XF	371-02302-159	371-02302-276	371-02302-366
YCAS0543E-50XF	371-02302-152	371-02302-252	371-02302-352
YCAS0573E-50XF	371-02302-179	371-02302-259	371-02302-359
YCAS0623E-50XF	371-02302-171	371-02302-271	371-02302-369
YCAS0653E-50XF	371-02302-179	371-02302-259	371-02302-359

* **Note:** To find Power Panel Identifier, See FIGURE 19 for Part Label location.

ITEM	DESCRIPTION	QTY.	371-02302-152	371-02302-153	371-02302-159	371-02302-171	371-02302-179
1A	Contactor	1	024-31642-000	024-26577-000	024-31638-000	024-31643-000	024-31638-000
		1	024-31642-000	024-26577-000	024-31638-000	024-31643-000	024-31638-000
1C	Surge Suppressor	1	031-00808-000	031-00808-000	031-00808-000	031-00808-000	031-00808-000
1E	Lugs, Contactor	4	025-34401-000	025-34401-000	025-34401-000	025-34401-000	025-34401-000
2A	120V Harness	1	071-02600-000	071-02600-000	071-02600-000	071-02600-000	071-02600-000
3 ^s	Motor Protector	1	024-30907-000	024-30907-000	024-30907-000	024-30907-000	024-30907-000
4	Ground Lug	1	025-34455-000	025-34455-000	025-34455-000	025-34455-000	025-34455-000
5	Ground Lug	1	025-34089-000	025-34089-000	025-34089-000	025-34089-000	025-34089-000
6	Terminal Block	3	025-34408-000	025-34408-000	025-34408-000	025-34405-000	025-34405-000
		3	025-34408-000	025-34408-000	025-34408-000	025-34405-000	025-34405-000
7	Circuit Breaker	—	—	—	—	—	—
		—	—	—	—	—	—
8	NF Disconnect Switch	—	—	—	—	—	—
		—	—	—	—	—	—
10	Operator Mech.	—	—	—	—	—	—
11	Sw. C/B Aux.2A/2B	—	—	—	—	—	—

Note: Highlighted numbers refer to Power Panel Identifiers shown on page 37.

ITEM	DESCRIPTION	QTY.	371-02302-252	371-02302-253	371-02302-259	371-02302-271	371-02302-276
1A	Contactor	1	024-31642-000	024-26577-000	024-31638-000	024-31643-000	024-31645-000
		1	024-31642-000	024-26577-000	024-31638-000	024-31643-000	024-31645-000
1C	Surge Suppressor	1	031-00808-000	031-00808-000	031-00808-000	031-00808-000	031-00808-000
1E	Lugs, Contactor	4	025-34401-000	025-34401-000	025-34401-000	025-34401-000	025-34401-000
2A	120V Harness	1	071-02600-000	071-02600-000	071-02600-000	071-02600-000	071-02600-000
3 ^s	Motor Protector	1	024-30907-000	024-30907-000	024-30907-000	024-30907-000	024-30907-000
4	Ground Lug	1	025-34455-000	025-34455-000	025-34455-000	025-34455-000	025-34455-000
5	Ground Lug	1	025-34089-000	025-34089-000	025-34089-000	025-34089-000	025-34089-000
6	Terminal Block	3	—	—	—	—	—
		3	—	—	—	—	—
7	Circuit Breaker	—	025-34419-000	025-34419-000	025-34424-000	025-34424-000	025-34425-000
		—	025-34419-000	025-34419-000	025-34424-000	025-34424-000	025-34473-000
8	NF Disconnect Switch	—	—	—	—	—	—
		—	—	—	—	—	—
10	Operator Mech.	—	025-34417-000	025-34417-000	025-34417-000	025-34417-000	025-34413-000
11	Sw. C/B Aux.2A/2B	—	024-31646-000	024-31646-000	024-31646-000	024-31646-000	024-31648-000

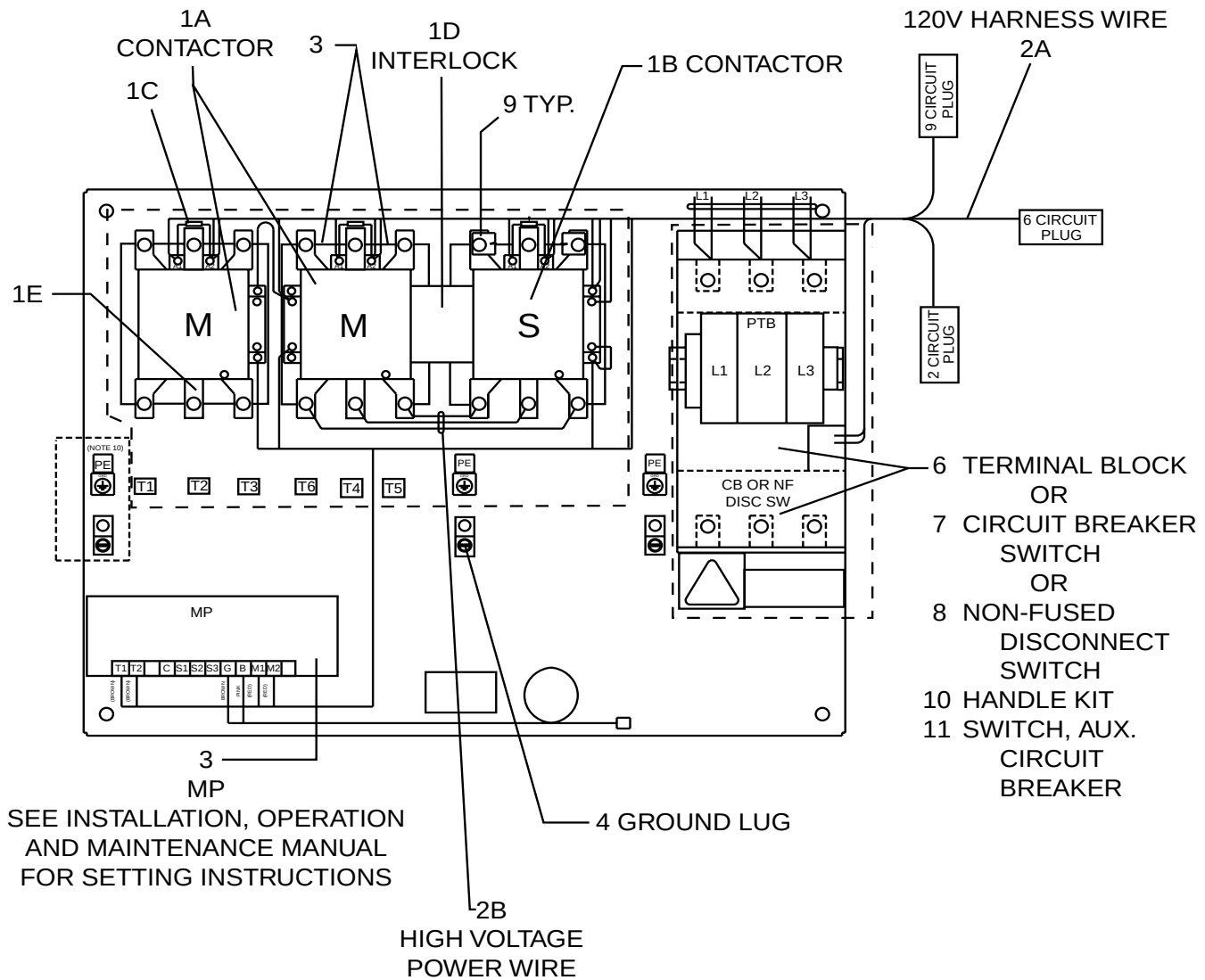
Note: Highlighted numbers refer to Power Panel Identifiers shown on page 37.

POWER PANEL COMPONENTS - ACROSS-THE-LINE (CONT'D)

ITEM	DESCRIPTION	QTY.	371-02302-352	371-02302-353	371-02302-359	371-02302-366	371-02302-369
1A	Contactor	1	024-31644-000	024-31642-000	024-26577-000	024-26577-000	024-26577-000
		1	024-31644-000	024-31642-000	024-26577-000	024-26577-000	024-31642-000
1C	Surge Suppressor	3	031-00808-000	031-00808-000	031-00808-000	031-00808-000	031-00808-000
1E	Contactor	4	025-34401-000	025-34401-000	025-34401-000	025-34401-000	025-34401-000
2A	120V Harness	1	071-02600-000	071-02600-000	071-02600-000	071-02600-000	071-02600-000
3 ^s	Motor Protector	1	024-30907-000	024-30907-000	024-30907-000	024-30907-000	024-30907-000
4	Ground Lug	1	025-34455-000	025-34455-000	025-34455-000	025-34455-000	025-34455-000
5	Ground Lug	1	025-34089-000	025-34089-000	025-34089-000	025-34089-000	025-34089-000
6	Terminal Block	3	025-34408-000	025-34408-000	025-34454-000	025-34454-000	025-34408-000
		3	025-34408-000	025-34408-000	025-34454-000	025-34454-000	025-34408-000
7	Circuit Breaker	—	—	—	—	—	—
		—	—	—	—	—	—
8	NF Disconnect Switch	—	—	—	—	—	—
		—	—	—	—	—	—
10	Operator Mech.	—	—	—	—	—	—
11	Sw. C/B Aux.2A/2B	—	—	—	—	—	—

Note: Highlighted numbers refer to Power Panel Identifiers shown on page 37.

POWER PANEL COMPONENTS - WYE-DELTA



LD05852

FIG. 20 – POWER PANEL COMPONENTS - WYE DELTA (REF. 'POWER PANEL COMPONENTS- 'WYE DELTA" TABLE, PAGES 42 - 43)

POWER PANEL IDENTIFIERS - WYE DELTA

TABLE 15 – POWER PANEL IDENTIFIERS (TO IDENTIFY REPLACEMENT PART NUMBERS SELECT PANEL IDENTIFIER NUMBER BELOW, THEN REFER TO HIGHLIGHTED ROW ON THE 'POWER PANEL COMPONENTS - WYE DELTA' TABLE, PAGE 42 AND 43, AND FIG. 20 ON PAGE 40)

Model	Power Panel with Terminal Block	Power Panel with Separate System Circuit Breakers	Power Panel with Separate System NF Disconnect Switches
YCAS0373E-50YF	371-02302-103	371-02302-203	371-02302-303
YCAS0403E-50YF	371-02302-103	371-02302-203	371-02302-303
YCAS0453E-50YF	371-02302-106	371-02302-206	371-02302-306
YCAS0503E-50YF	371-02302-101	371-02302-201	371-02302-301
YCAS0543E-50YF	371-02302-106	371-02302-206	371-02302-306
YCAS0573E-50YF	371-02302-101	371-02302-201	371-02302-301
YCAS0623E-50YF	371-02302-101	371-02302-201	371-02302-301
YCAS0653E-50YF	371-02302-101	371-02302-201	371-02302-301

* **Note:** To find the Power Panel Identifier, See FIGURE 20 for Part Label location.

ITEM	DESCRIPTION	SYS.	QTY.	371-02302-101	371-02302-103	371-02302-106	371-02302-201	371-02302-203	371-02302-206
1A	Contactor	1	2	024-26577-000	024-31603-000	024-31639-000	024-26577-000	024-31638-000	024-31639-000
		2	2	024-26577-000	024-31603-000	024-31639-000	024-26577-000	024-31638-000	024-31639-000
1B	Contactor	1	1	024-26577-000	024-31636-000	024-31602-000	024-26577-000	024-26577-000	024-31602-000
		2	1	024-26577-000	024-31636-000	024-31602-000	024-26577-000	024-26577-000	024-31602-000
1C	Surge Suppressor	Both	6	031-00808-000	031-00808-000	031-00808-000	031-00808-000	031-00808-000	031-00808-000
1D	Mech Interlock	1	1	024-31600-000	024-31601-000	024-31601-000	024-31601-000	024-31637-000	024-31601-000
		2	1	024-31600-000	024-31601-000	024-31601-000	024-31601-000	024-31637-000	024-31601-000
1E	Lugs, Contactor	Both	12	025-34401-000	025-34401-000	025-34401-000	025-34401-000	025-34458-000	025-34401-000
2A	120V Harness	1	1	071-02600-000	071-02600-000	071-02600-000	071-02600-000	071-02600-000	071-02600-000
2B	120V Harness	2	1	071-02601-000	071-02601-000	071-02601-000	071-02601-000	071-02601-000	071-02601-000
3	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	2	025-34087-000	025-34088-000	025-34085-000	025-34085-000	025-34085-000	025-34085-000
5	Ground Lug	Both	2	025-34089-000	025-34089-000	025-34089-000	025-34089-000	025-34089-000	025-34089-000
6	Terminal Block	1	3	025-34405-000	025-34454-000	025-34408-000	—	—	—
		2	3	025-34405-000	025-34454-000	025-34408-000	—	—	—
7	Circuit Breaker	1	1	—	—	—	025-34424-000	025-34419-000	025-34419-000
		2	1	—	—	—	025-34424-000	025-34419-000	025-34419-000
8	NF Disc Switch	—	—	—	—	—	—	—	—
		—	—	—	—	—	—	—	—
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

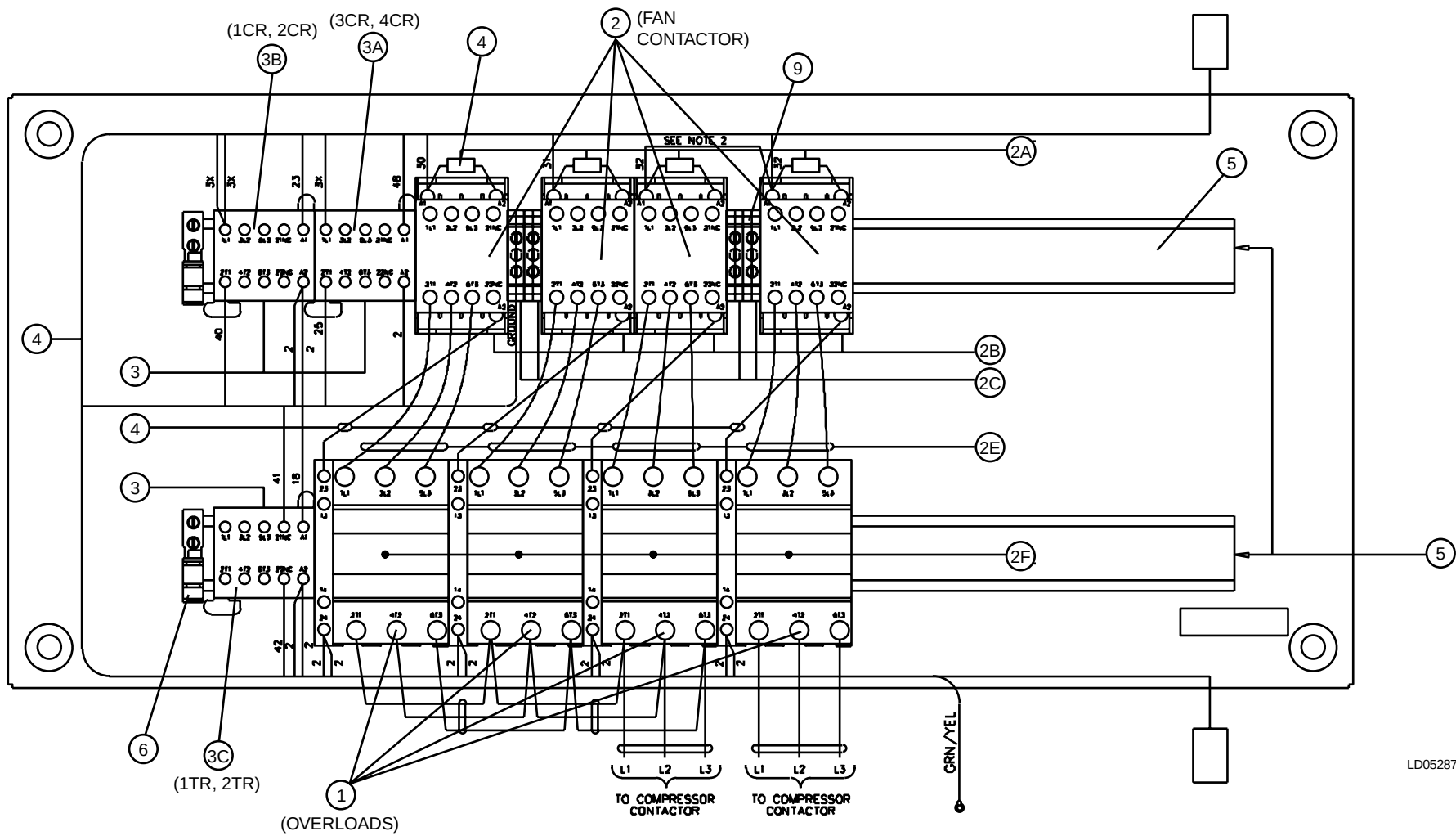
Note: Highlighted numbers refer to Power Panel Identifiers shown on page 41.

POWER PANEL COMPONENTS - WYE-DELTA (CONT'D)

ITEM	DESCRIPTION	SYS.	QTY.	371-02302-301	371-02302-303	371-02302-306
1A	Contactor	1	2	024-26577-000	024-31603-000	024-31639-000
		2	2	024-26577-000	024-31603-000	024-31639-000
1B	Contactor	1	1	024-26577-000	024-31636-000	024-31602-000
		2	1	024-26577-000	024-31636-000	024-31602-000
1C	Surge Suppressor	Both	6	031-00808-000	031-00808-000	031-00808-000
1D	Mech Interlock	1	1	024-31600-000	024-31601-000	024-31601-000
		2	1	024-31600-000	024-31601-000	024-31601-000
1E	Lugs, Contactor	Both	12	025-34458-000	025-34401-000	025-34458-000
2A	120V Harness	1	1	071-02600-000	071-02600-000	071-02600-000
2B	120V Harness	2	1	071-02601-000	071-02601-000	071-02601-000
3	Motor Protector	Both	2	024-30907-000	024-30907-000	024-30907-000
4	Ground Lug	Both	2	025-34085-000	025-34088-000	025-34085-000
5	Ground Lug	Both	2	025-34089-000	025-34089-000	025-34089-000
6	Terminal Block	—	—	—	—	—
		—	—	—	—	—
7	Circuit Breaker	—	—	—	—	—
		—	—	—	—	—
8	NF Disc Switch	1	1	024-25565-000	024-25575-000	024-25565-000
		2	1	024-25565-000	024-25575-000	024-25565-000
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

Note: Highlighted numbers refer to Power Panel Identifiers shown on page 41.

4 FAN CONTACTOR PANEL (All other Contactor Panels similar)



LD05287

FIG. 21 – 4 FAN CONTACTOR PANEL (REF. TABLE 17, PAGE 45)

4 FAN CONTACTOR PANEL COMPONENTS (CONT'D)

(All other contactor panels similar)

TABLE 17 – 4 FAN CONTACTOR PANEL COMPONENTS – YCAS F (SEE FIG. 21, PAGE 44)

ITEM	LEGEND	DESCRIPTION	YORK PART NO.	QTY*
1	9 OL -	6.3 A OVERLOAD	025-34449-000	4
1	20 OL	9.0 A OVERLOAD	025-34446-000	4
2	9M -	FAN CONTACTOR 380-575V	025-34448-000	4
2	20M	FAN CONTACTOR 200-230V	025-34445-000	4
3A	3, 4CR	COMP HTR RELAY	024-31635-000	1
3B	1, 2CR	COMP RUN RELAY	024-31635-000	1
3C	1, 2TR	Y-D TRANSITION RELAY	024-31635-000	1
4		SURGE SUPPRESSOR	031-00808-000	4
5		DIN RAIL SLOTTED	025-29167-000	0.5
6		END CLAMP	025-34439-000	2
7		14AWG BLK 600V 1		8
8		FAN PNL PWR-WIRE		3
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

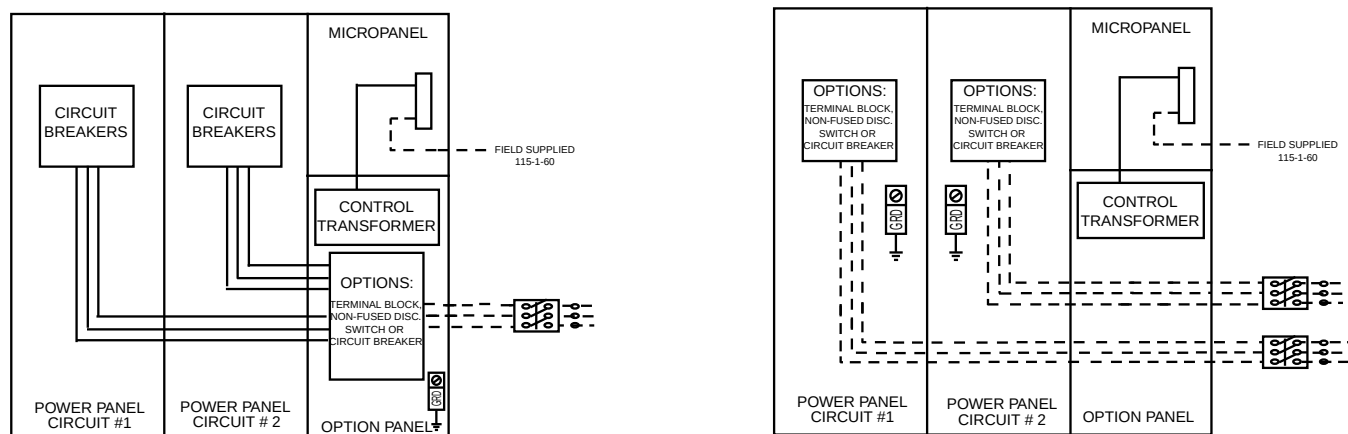
Power panels and option panels are offered in several configurations using three (3) major components:

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	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 NIF disc switch in option panel
S	S	NF disconnect switch for each system in power panel; SP terminal block 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:



202649-1b

FIG. 22 – EXAMPLES OF POWER WIRING CONFIGURATIONS (2-COMPRESSOR UNITS)

OPTION PANEL IDENTIFIERS

TABLE 18 – OPTION PANEL IDENTIFIERS (TO IDENTIFY REPLACEMENT PART NUMBERS, SELECT PANEL IDENTIFIER NUMBER BELOW, THEN REFER TO HIGHLIGHTED ROW ON TABLE 19, AND FIGS. 24 AND 25 ON PAGES 49 AND 50)

Model	Code	Terminal Block	Qty.	NF Disc. Switch	Qty.	Circuit Breaker	Qty.
YCAS0373	50	371-02700-269	1	371-02700-265	1	371-02700-267	1
YCAS0403	50	371-02700-270	1	371-02700-265	1	371-02700-267	1
YCAS0453	50	371-02700-270	1	371-02700-265	1	371-02700-267	1
YCAS0503	50	371-02700-271	1	371-02700-266	1	371-02700-268	1
YCAS0543	50	371-02700-270	1	371-02700-265	1	371-02700-267	1
YCAS0573	50	371-02700-271	1	371-02700-266	1	371-02700-268	1
YCAS0623	50	371-02700-271	1	371-02700-266	1	371-02700-268	1
YCAS0653	50	371-02700-271	1	371-02700-266	1	371-02700-268	1

*** Note:** To locate Option Panel Identifier, See FIGURES 24 and 25 for Part Label location.

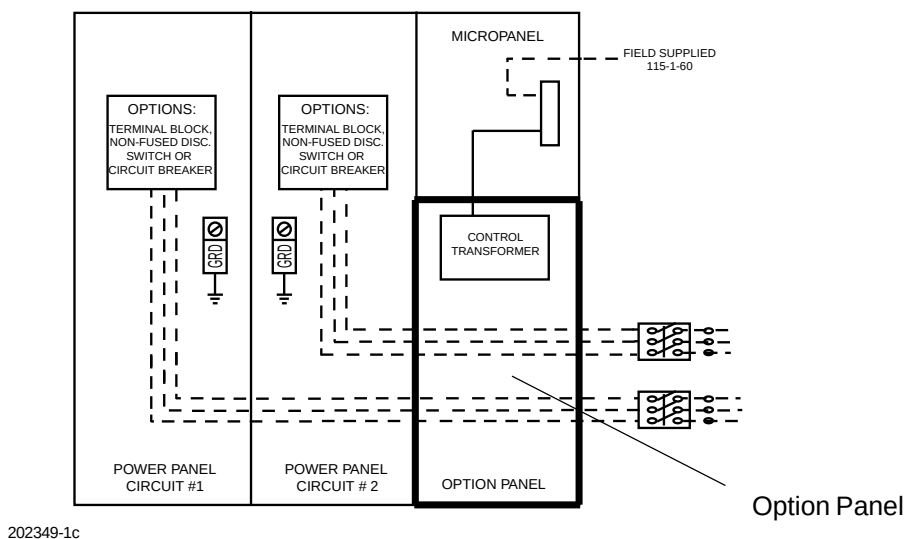


FIG. 23 – OPTION PANEL (2-COMPRESSOR UNITS)

OPTION PANEL COMPONENTS

TABLE 19 – OPTIONS PANEL COMPONENTS (SEE FIGS. 24 AND 25, PAGES 49 AND 50)

ITEM	DESCRIPTION	QUANTITY	371-02700-265	371-02700-266	371-02700-267	371-02700-268	371-02700-269	371-02700-270	371-02700-271
4A			See Fig. 26	See Fig. 26	See Fig. 26	See Fig. 26	See Fig. 26	See Fig. 27	See Fig. 27
	Terminal Block	3	025-34405-000	025-34408-000	025-34408-000	025-34405-000	025-34405-000	———	———
	NF Disconnect Switch	1	———	———	———	———	———	024-25563-000	024-25564-000
	Circuit Breaker	1	———	———	———	———	———	———	———
4B	Handle Kit	1	———	———	———	———	———	025-34413-000	025-34417-000
4C	Lug Kit	1	———	———	———	———	———	025-34414-000	025-34420-000
4D	Lug Kits with Power Tap	1	———	———	———	———	———	024-31654-000	024-31652-000
4E	Insertion Bridge	3	025-34423-000	025-34422-000	025-34422-000	———	———	———	———
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.		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	025-34429-000	025-34432-000	025-34429-000	025-34432-000	025-34429-000	025-34429-000
2A	Fuse	2	025-34430-000	025-34430-000	025-34431-000	025-34430-000	025-34431-000	025-34430-000	025-34430-000

NOTE: Hi-lighted numbers refer to TABLE 18 - Option Panel Identifiers on Page 57.

OPTION PANEL COMPONENTS (CONT'D)

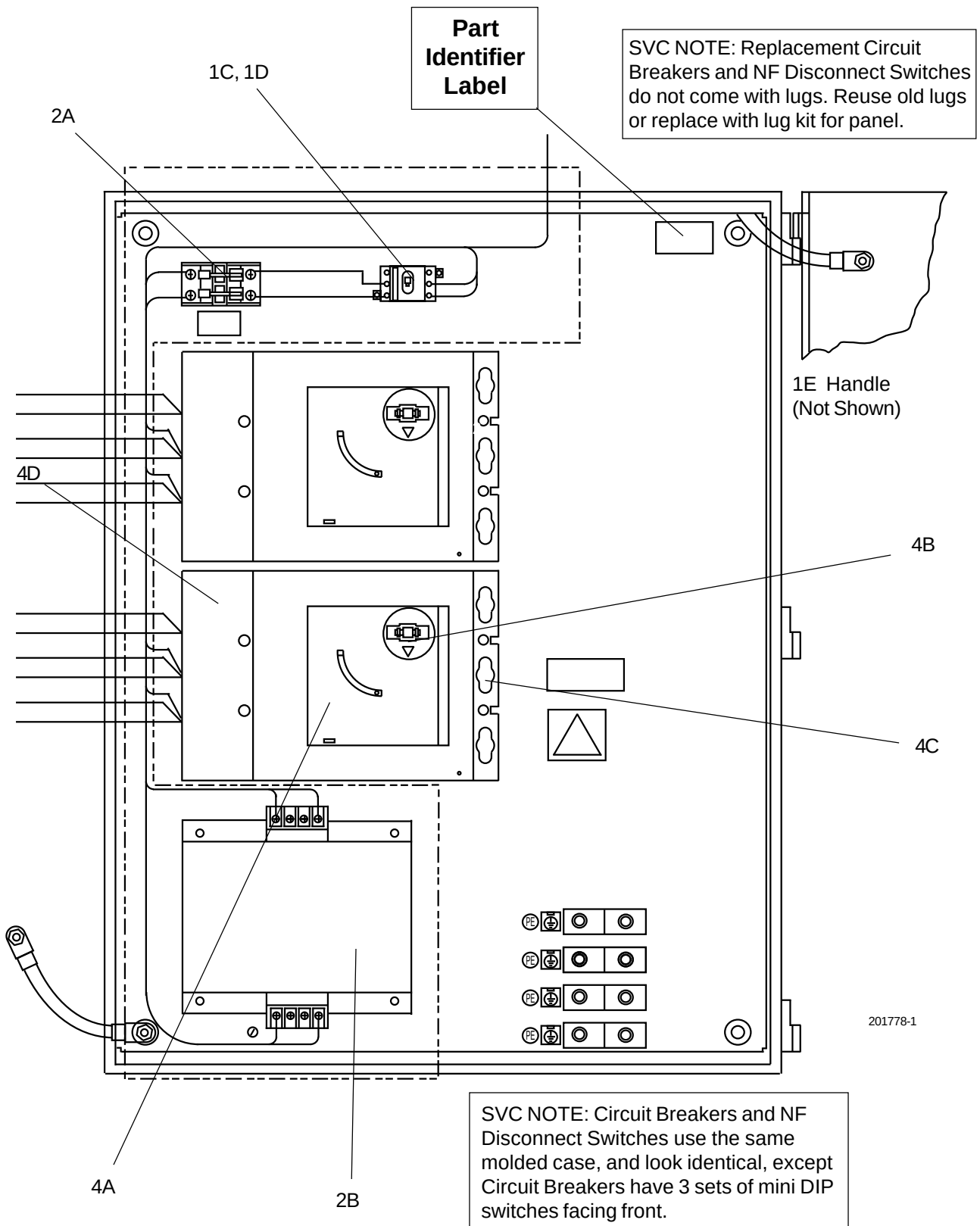


FIG. 24 – OPTION PANEL SHOWN WITH CIRCUIT BREAKER OR NON-FUSED DISCONNECT SWITCH (REF. TABLE 19, PAGE 48)

OPTION PANEL COMPONENTS (CONT'D)

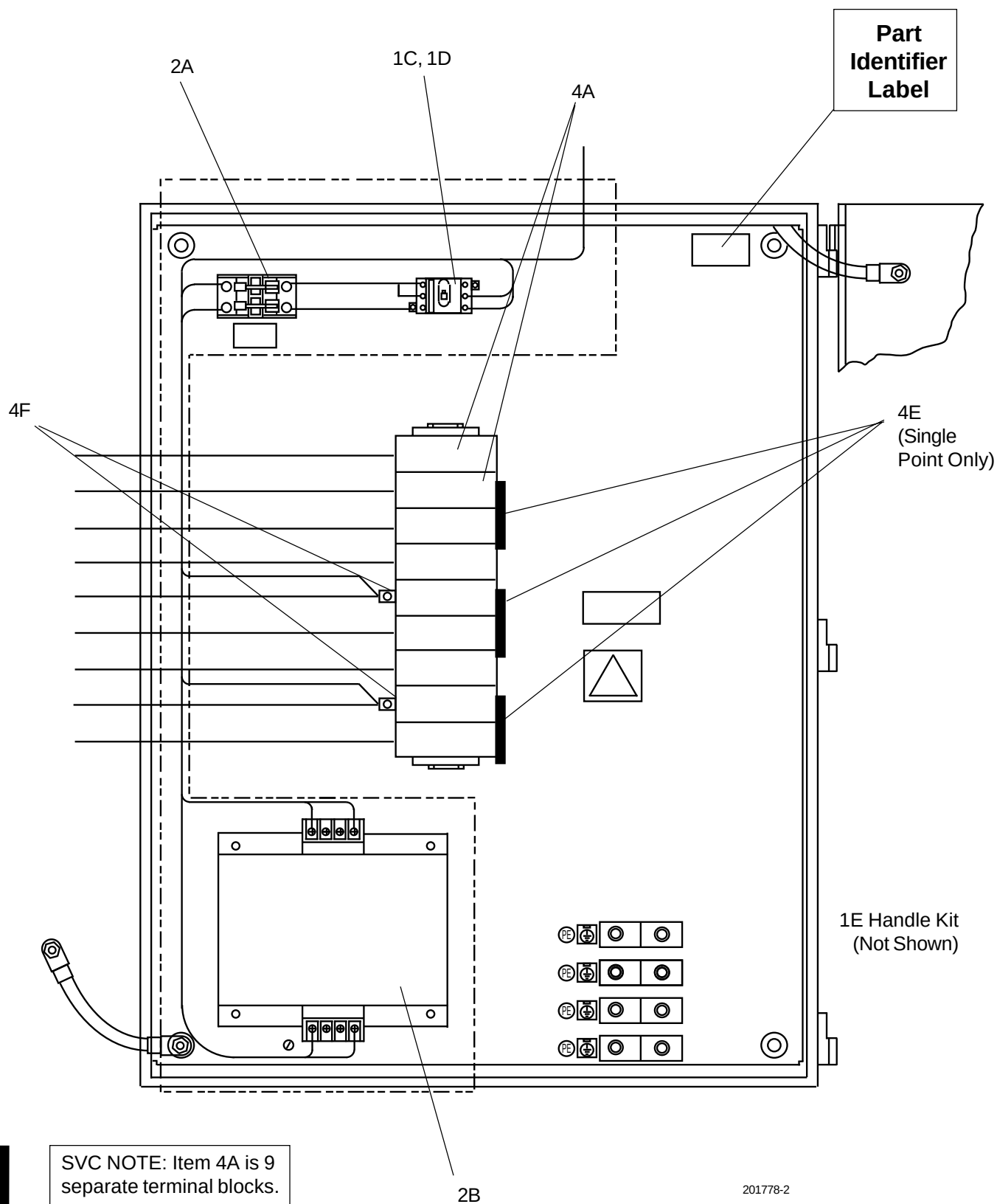


FIG. 25 – OPTION PANEL SHOWN WITH POWER TERMINAL BLOCK
(REF. TABLE 19, PAGE 48)

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TABLE 20 – FIELD INSTALLABLE OPTIONS TABLE

MODEL NUMBER YCAS - F	VIBRATION ISOLATORS SPRING 1" DEFLEC* CU/AL	VIBRATION ISOLATORS SPRING 2" (SEISMIC) CU/AL	VIBRATION ISOLATOR PAD 1/2" DEFLEC CU/AL	VIBRATION ISOLATORS SPRING 1" DEFLEC* CU/CU	VIBRATION ISOLATORS SPRING 2" (SEISMIC) CU/CU	VIBRATION ISOLATOR PAD 1/2"DEFLEC CU/CU	WIRE ENCLOSURE FULL UNIT	LOUVERED ENCLOSURE FULL UNIT	WIRE/ LOUVERED ENCLOSURE FULL UNIT	LOUVERED ENCLOSURE CONDENSER ONLY	BAS/EMS INTERFACE KIT	REMOTE CONTROL PANEL 50Hz
MODEL NO.	029-22921	029-22921	029-22781	029-22921	029-22921	029-22781	375-29513	375-29514	375-29515	375-29516	371-02492	371-02485
0373	-104	-204	-008	-154	-254	-011	-012	-012	-012	-012	-102	-105
0403	-104	-204	-008	-154	-254	-011	-012	-012	-012	-012	-102	-105
0453	-104	-204	-008	-154	-254	-011	-012	-012	-012	-012	-102	-105
0503	-104	-204	-008	-154	-254	-011	-012	-012	-012	-012	-102	-105
0543	-105	-205	-002	-155	-255	-005	-016	-016	-016	-016	-102	-105
0573	-105	-205	-002	-155	-255	-005	-016	-016	-016	-016	-102	-105
0623	-105	-205	-009	-155	-255	-005	-016	-016	-016	-016	-102	-105
0653	-106	-206	-010	-156	-256	-012	-020	-020	-020	-020	-102	-105

* Note Tubing and Fin Coil Material – Copper Coils (Cu/Cu) are much heavier than aluminum (Al).

ENCLOSURE KIT OPTIONS – FULL UNIT

(Includes Top and Bottom Sections)

TABLE 21 – ENCLOSURE KIT OPTIONS (Includes Top and Bottom Sections)

MODEL NUMBER	WIRE ENCLOSURE FULL UNIT*	LOUVERED ENCLOSURE FULL UNIT*	WIRE / LOUVERED ENCLOSURE FULL UNIT*	LOUVERED ENCLOSURE CONDENSER ONLY
YCAS - F	375-29513-	375-29514-	375-29515-	375-29516-
0373	012	012	012	012
0403	012	012	012	012
0453	012	012	012	012
0503	012	012	012	012
0543	016	016	016	016
0573	016	016	016	016
0623	016	016	016	016
0653	020	020	020	020

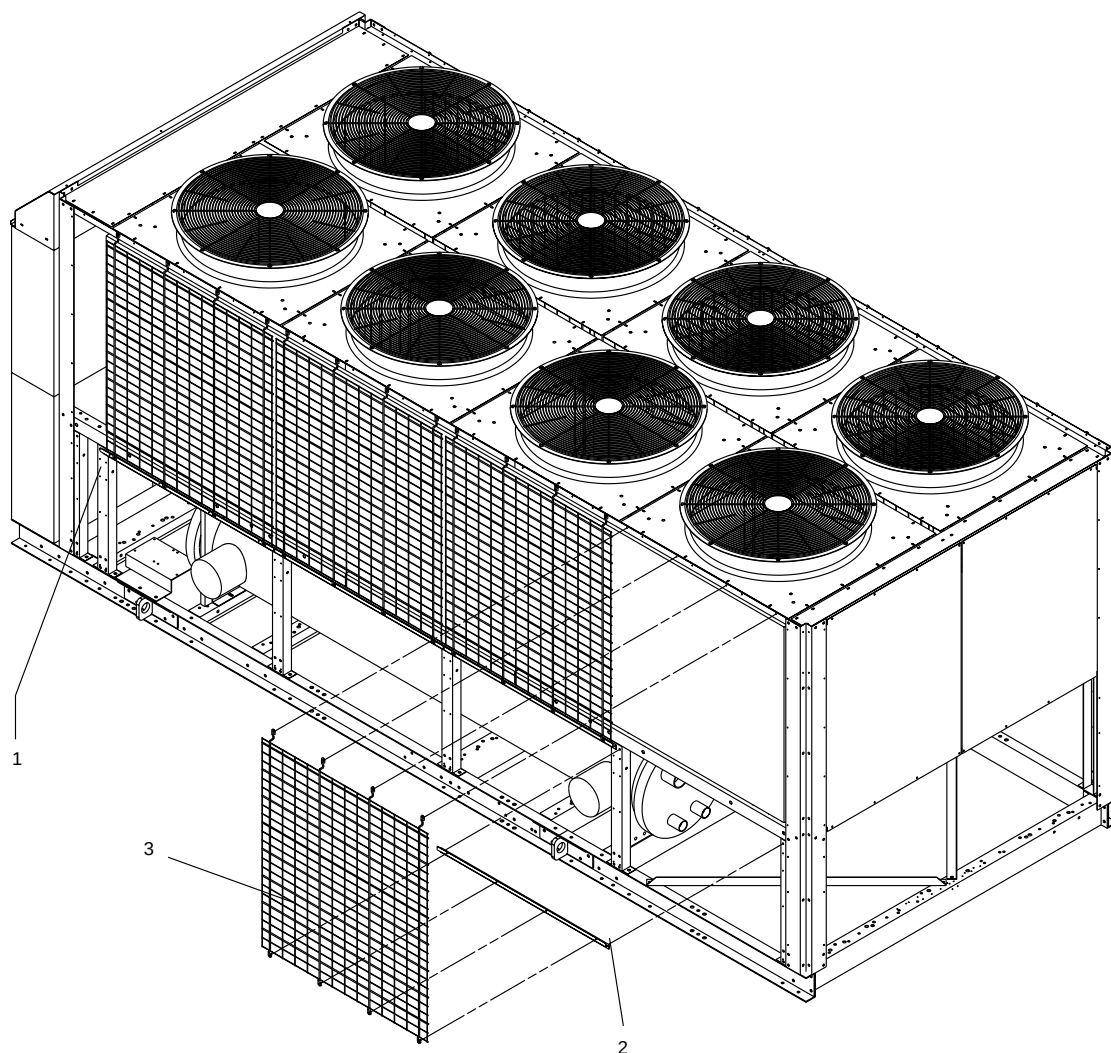
* Full units include top and bottom sections listed in Table 16. Top or bottom sections may be ordered separately if desired.

TABLE 22 – ENCLOSURE KIT OPTIONS – TOP AND BOTTOM KITS AVAILABLE SEPARATELY

FULL UNIT KIT OPTION NUMBER INCLUDES THE FOLLOWING TOP AND BOTTOM SECTION KITS			
TYPE	FULL UNIT KIT NO.	TOP KIT NO.	BOTTOM KIT NO.
WIRE	375-29513-012	375-29569-120 (FIG. 26)	375-29569-121 (FIG. 27)
WIRE	375-29513-016	375-29569-160 (FIG. 26)	375-29569-161 (FIG. 27)
WIRE	375-29513-020	375-29569-200 (FIG. 26)	375-29569-201 (FIG. 27)
LOUVER	375-29514-012	375-29571-120 (FIG. 28)	375-29571-121 (FIG. 29)
LOUVER	375-29514-016	375-29571-160 (FIG. 28)	375-29571-161 (FIG. 29)
LOUVER	375-29514-020	375-29571-200 (FIG. 28)	375-29571-201 (FIG. 29)
W/L	375-29515-012	375-29571-120	375-29569-121
W/L	375-29515-016	375-29571-160	375-29569-161
W/L	375-29515-020	375-29571-200	375-29569-201
LOUVER	375-29516-012	375-29571-120	N/A
LOUVER	375-29516-016	375-29571-160	N/A
LOUVER	375-29516-020	375-29571-200	N/A

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

WIRE ENCLOSURE TOP SECTION PARTS BREAKDOWN



LD05249

FIG. 26 – TOP SECTION - WIRE ENCLOSURE - KIT NO. 375-29569-160 IS SHOWN.

TABLE 23 – WIRE ENCLOSURE TOP

TOP COMPONENT 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

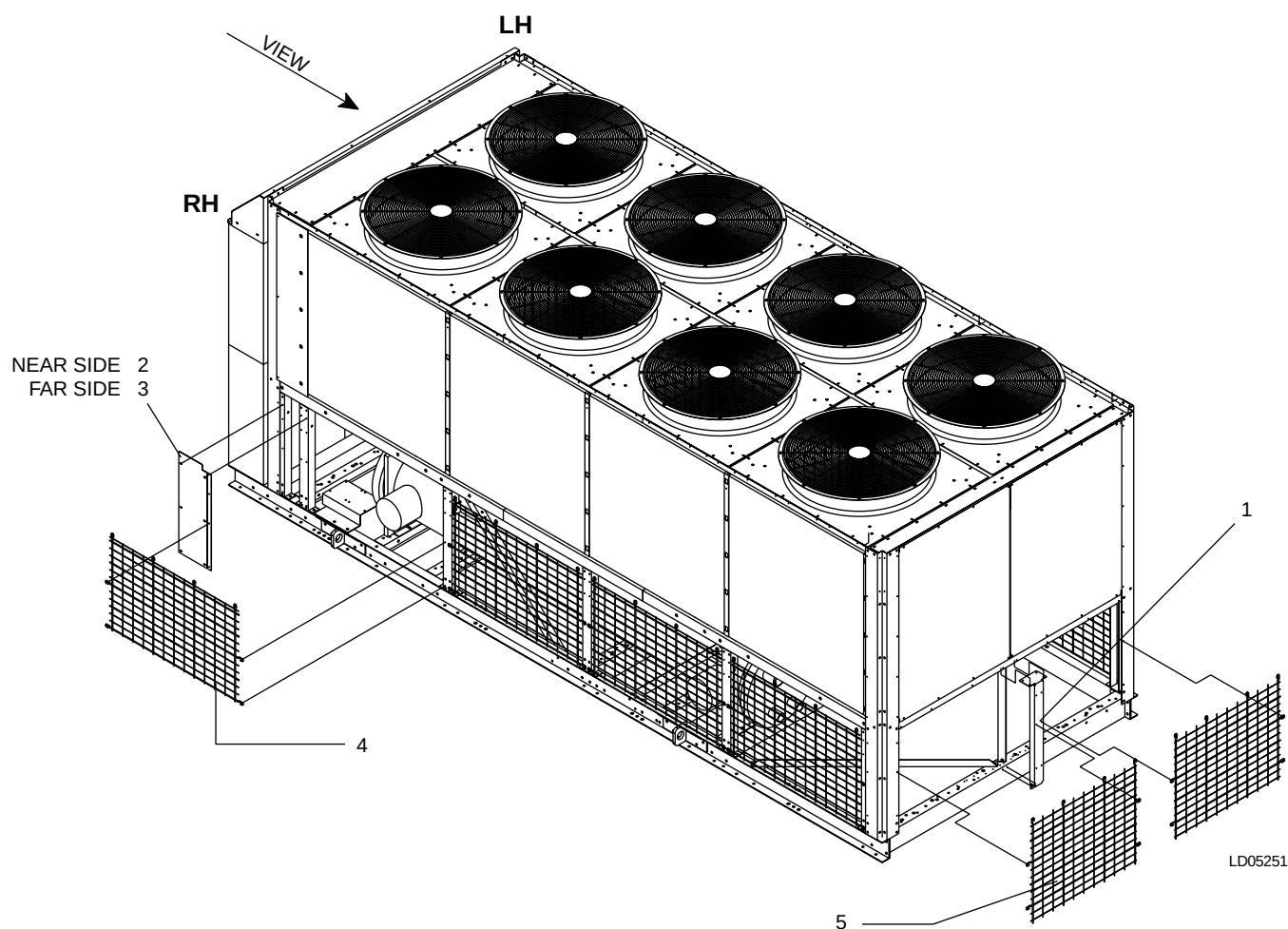


FIG. 27 – BOTTOM SECTION - WIRE ENCLOSURE - KIT NO. 375-29569-161 IS SHOWN.

TABLE 24 – WIRE ENCLOSURE BOTTOM

BOTTOM COMPONENT 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

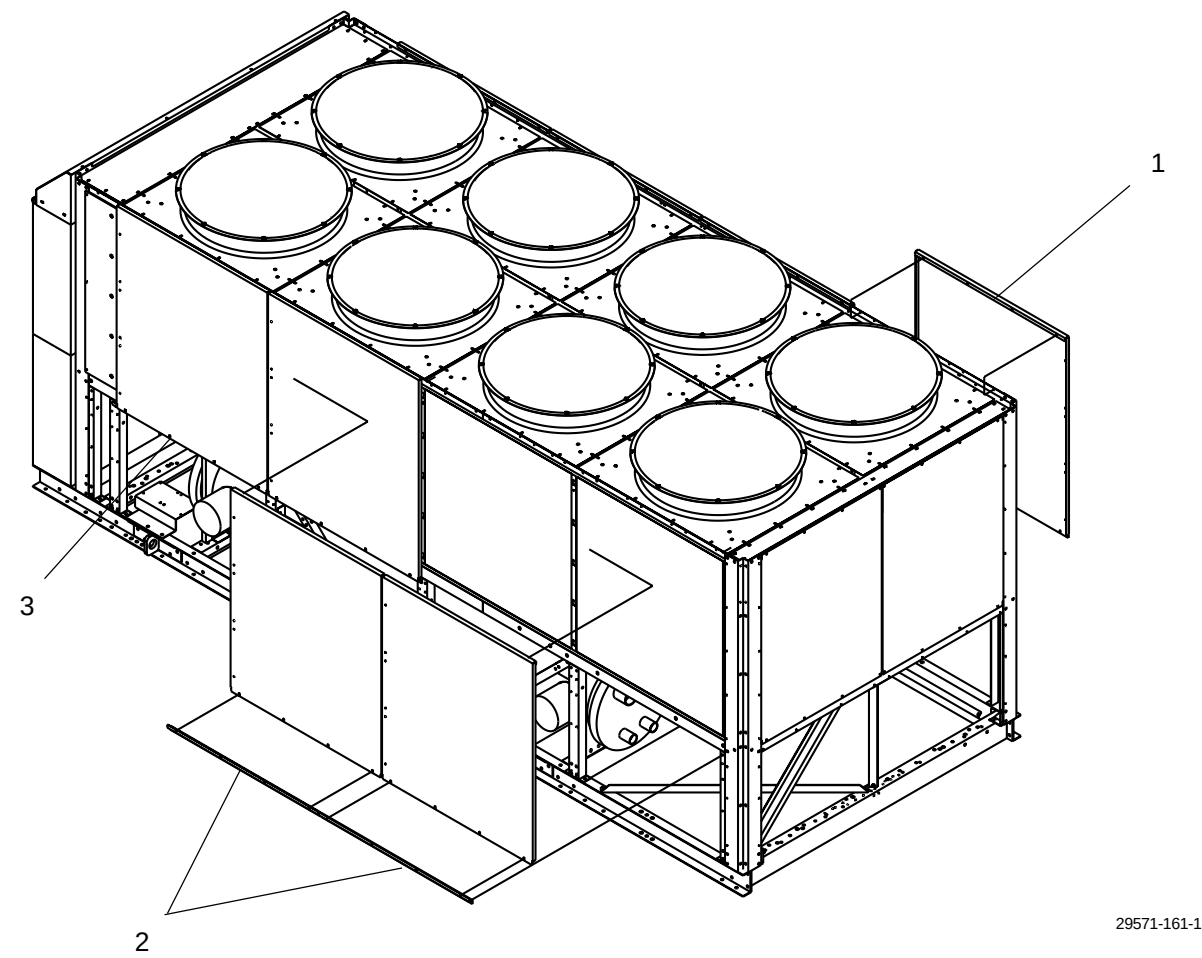


FIG. 28 – TOP SECTION - LOUVERED EXPOSURE - KIT NO. 375-29571-200 IS SHOWN

TABLE 25 – LOUVERED PANEL ENCLOSURE TOP

TOP COMPONENT 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. 375-29571-160: 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

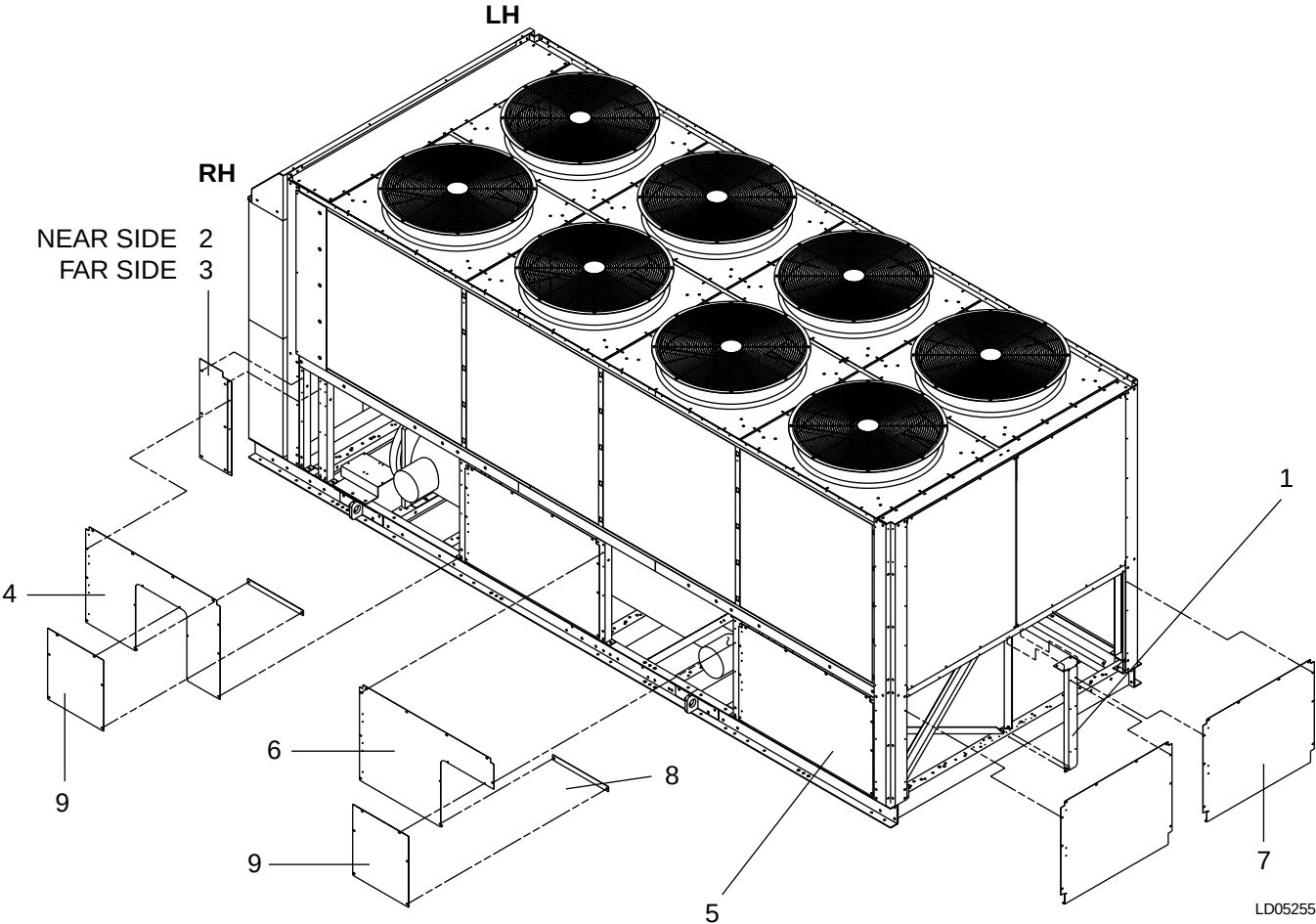


FIG. 29 – BOTTOM SECTION - LOUVERED ENCLOSURE - KIT NO. 375-29571-161 IS SHOWN.

TABLE 26 – LOUVERED PANEL ENCLOSURE BOTTOM

BOTTOM COMPONENT 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 KIT

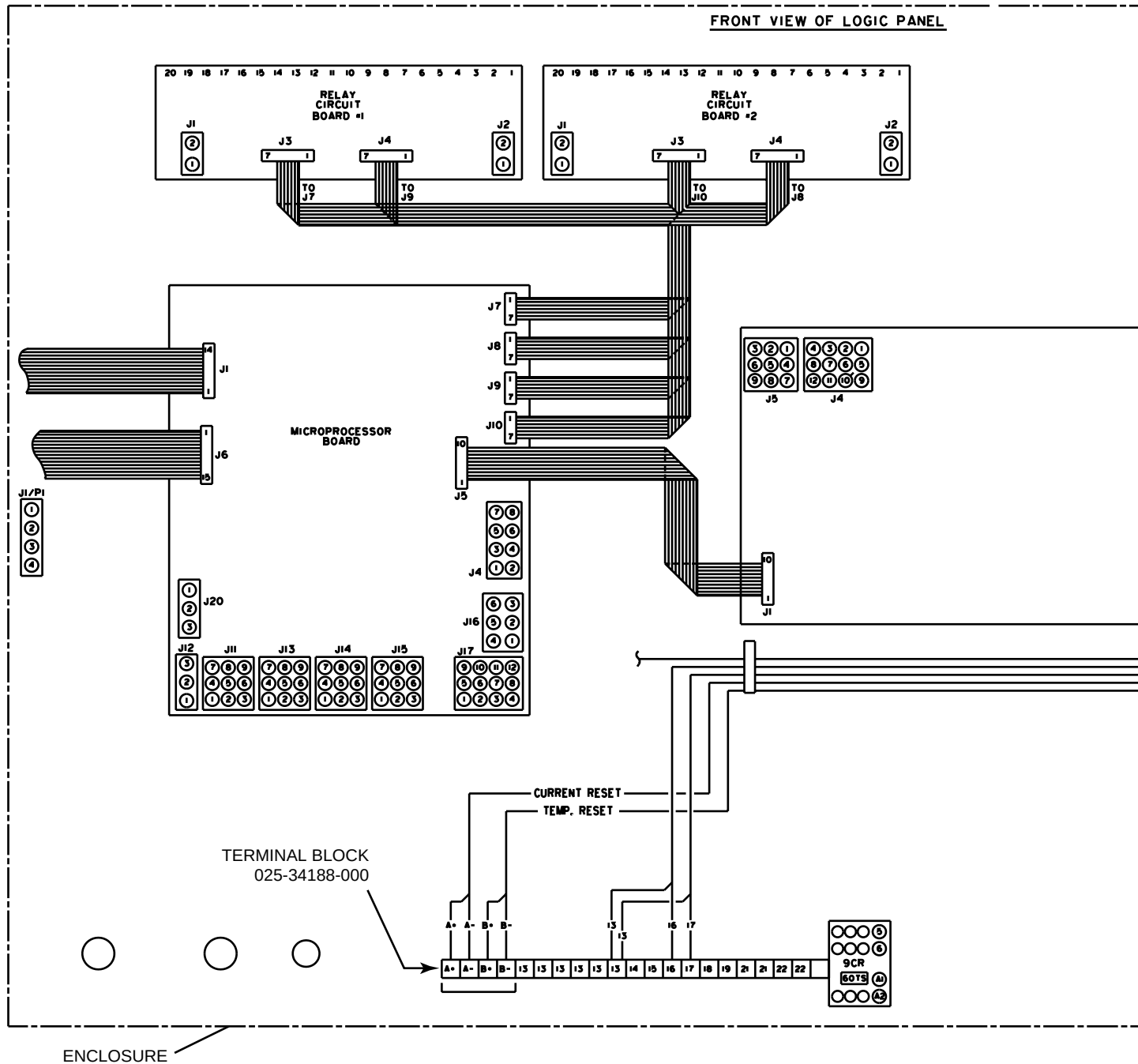


FIG. 30 – REMOTE CURRENT/TEMPERATURE RESET WIRING KIT

REMOTE CURRENT/TEMPERATURE RESET WIRING KIT

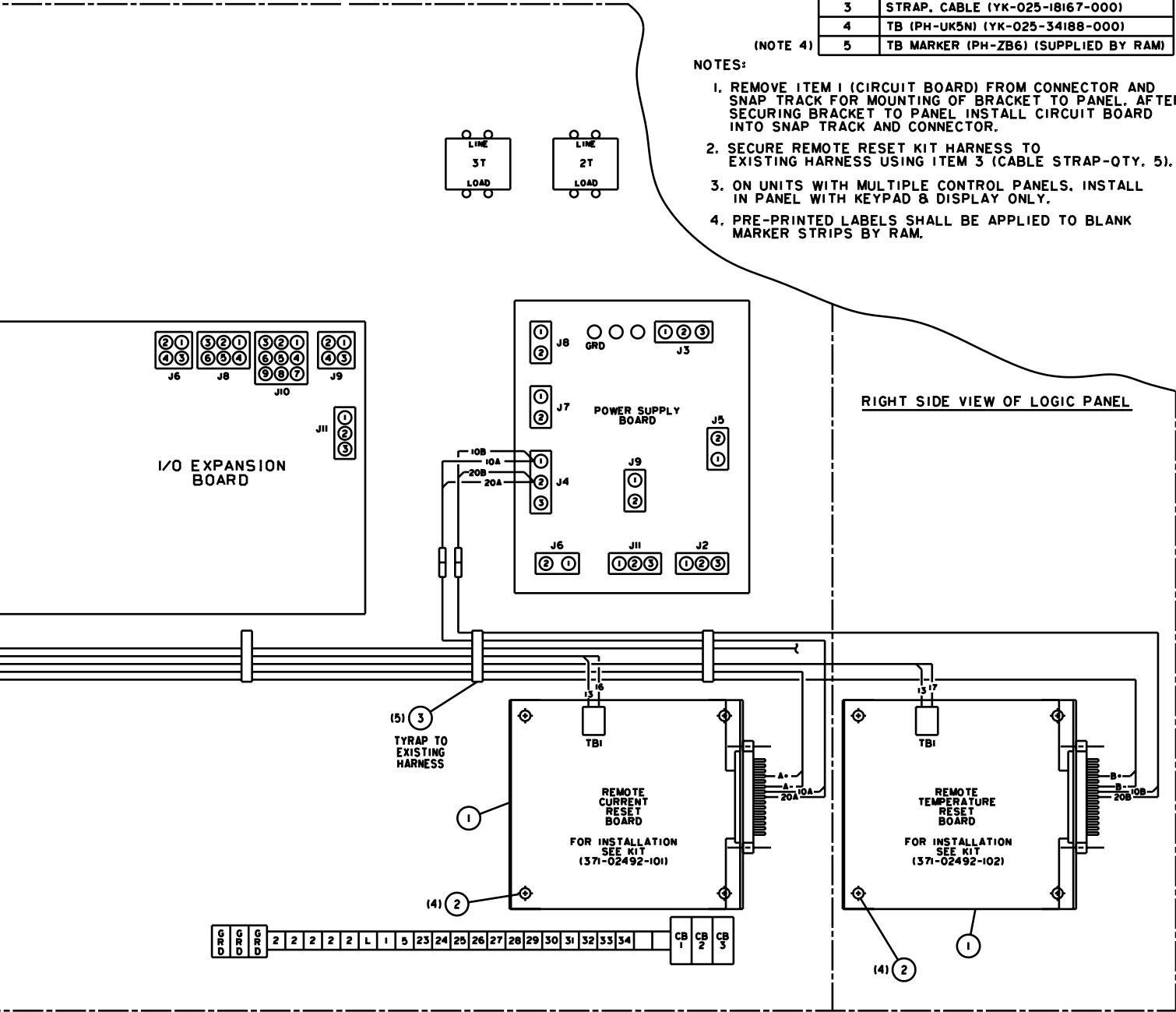
Chiller Options

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.



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CURRENT/TEMPERATURE RESET PARTS BREAKDOWN

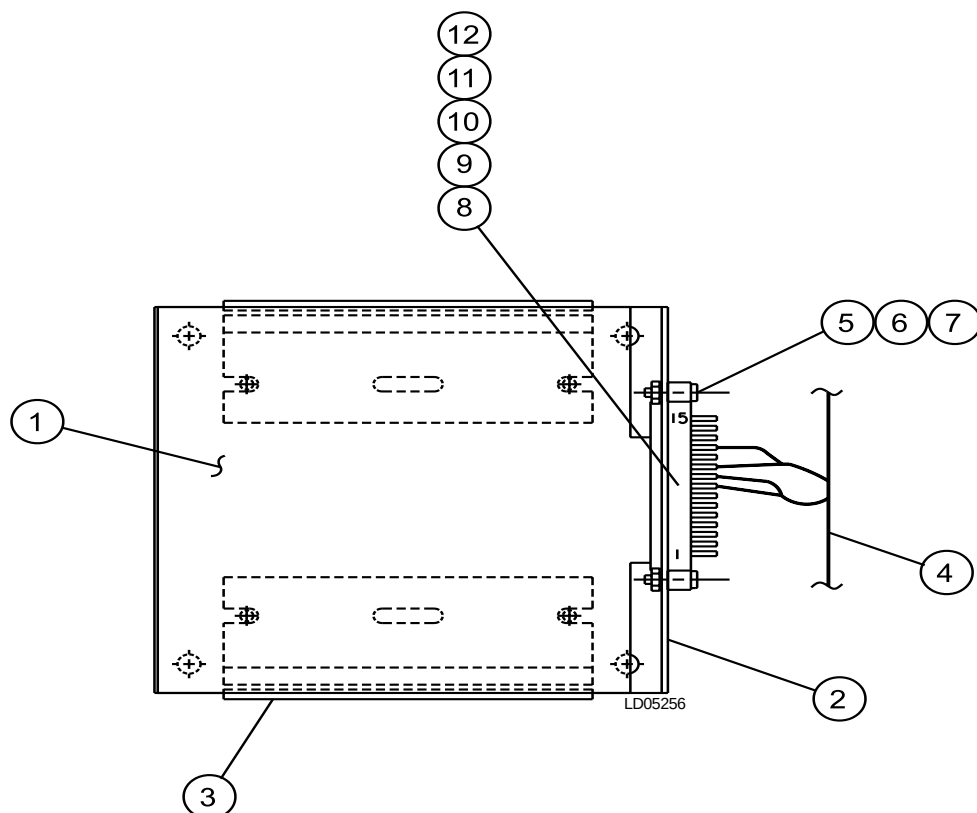


FIG. 31 – REMOTE TEMPERATURE RESET KIT

TABLE 27 – REMOTE CURRENT/TEMPERATURE RESET KIT

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	LKWASH HEL. SPG. #4 REG.	021-17576-000

* Refer to Table 28 below.

TABLE 28– 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

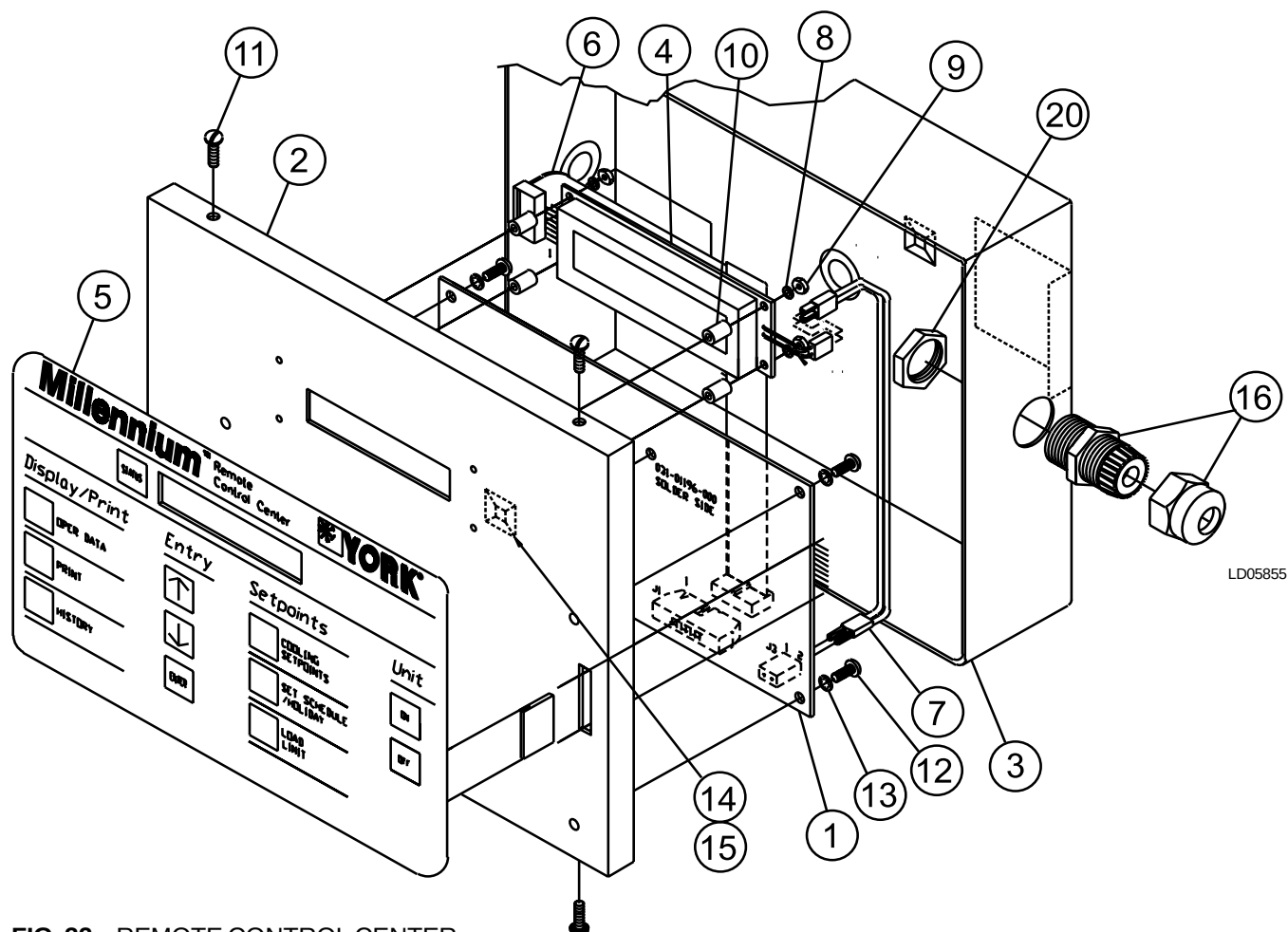


FIG. 32 – REMOTE CONTROL CENTER

TABLE 29 – REMOTE CONTROL CENTER PARTS

371-02485-101 AND 102 (50 AND 60 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	025-31732-000
17	2	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-8464	
21	1	OPERATOR'S MANUAL	201.18-NM1.2

RECOMMENDED SPARE PARTS

York Model YCAS Style F Air Cooled Screw Chillers
Suggested Spare Parts List for Critical Duty Applications

TABLE 30 – SPARE PARTS

PAGE REF. & ITEM NUMBER	DESCRIPTION	PART NUMBER
Page 5, Item 6	Gasket, Pass Baffle and Head	See Table 1
Page 5, Item 7	Heater, Cooler 280 Watt	See Table 1
Page 7 & 8, Item 1	Fan Motor	See Table 3 & 3A
Page 7 & 8, Item 2	Fan Blade	See Table 3 & 3A
Page 10, Item 1	Valve, Thermal Expansion (Cooler)	See Table 4
Page 10, Item 2	Valve, Thermal Expansion (Econom.)	See Table 4
Page 10, Item 5	Core, Dehydrator	026-18328-000
Page 10, Item 16	Coil, Solenoid	See Table 4
Page 22, Item 1	Oil filter cartridge	026-35601-000
Page 22, Item 2	O-ring for above filter	028-13849-000
Page 22, Item 3	York Type L oil, POE, 5 gal.*	011-00592-000
Page 25, Item 15	Valve, Capacity Control	025-33205-000
Page 26, Item 2	MicroBoard	031-01095-002
Page 26, Item 3	Power Supply Board	031-01094-000
Page 26, Item 4	Relay Circuit Board	031-01093-000
Page 33, Item 1	Sensor, Outside Air Temp.	025-28663-001
Page 33, Item 2	Sensor, Water Temp. (All)	025-29964-000
Page 33, Item 3	Sensor, Oil Temp.	025-30440-000
Page 33, Item 4	Sensor, Discharge Temp.	025-32924-000
Page 33, Item 5	Sensor, Suction Temp.	025-28935-000
Page 33, Item 6	HP Cut-out (USA Std.)	025-30480-000
Page 33, Item 7	Transducer, Suction 0-200 PSI	025-29583-000
Page 33, Item 8	Transducer, Discharge 0-400 PSI	025-29139-001
Page 38-43, Item 3	Motor Protector Module	024-30907-000

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

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

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