



MILLENNIUM®
AIR-COOLED SCREW CHILLER
STYLE "F"

RENEWAL PARTS LIST

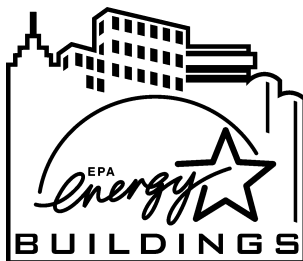
Supersedes: 201.18-RP9 (700)

Form 201.18-RP9 (701)

MODELS YCAS-1063, 1093, 1163 and 1263
50 HERTZ



28971AR



ALLY



380-415/3/50
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.

BASIC PART NUMBER

YCAS1063EC50YFA

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 └─	C └─	A └─	: YORK Chiller Air Cooled Screw	# └─	# └─	# └─	Tons 1063 1093 1163 1263	E High Efficiency └─	C :R-22 └─	5 └─	0 └─	:380/415/3/50	F └─	A └─
													:Design Series F :Engineering Change or PIN Level	
													Y :Wye (Star) Delta X :Across the Line	

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	X	: SP Supply TB
S	D	: SP NF Disconnect Switch
B	X	: SP Circuit Breaker w/ Lockable Handle
C		: Control Circuit Power Terminal Strip
X		: No Option

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

20 21 22 23 24 25 26 27 28

CONTROLS FIELD

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

29 30 31 32 33 34 35 36 37

COMPRESSOR / PIPING FIELD

[illegible]

38 39 40 41 42 43 44

EVAP. FIELD

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

45 46 47

CONDENSER FIELD

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

48 49 50 51 52 53 54

CABINET FIELD

Option	Description
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
S	: Final Overspray Paint
1	: 1" Deflection
S	: Seismic
N	: Neoprene Pads

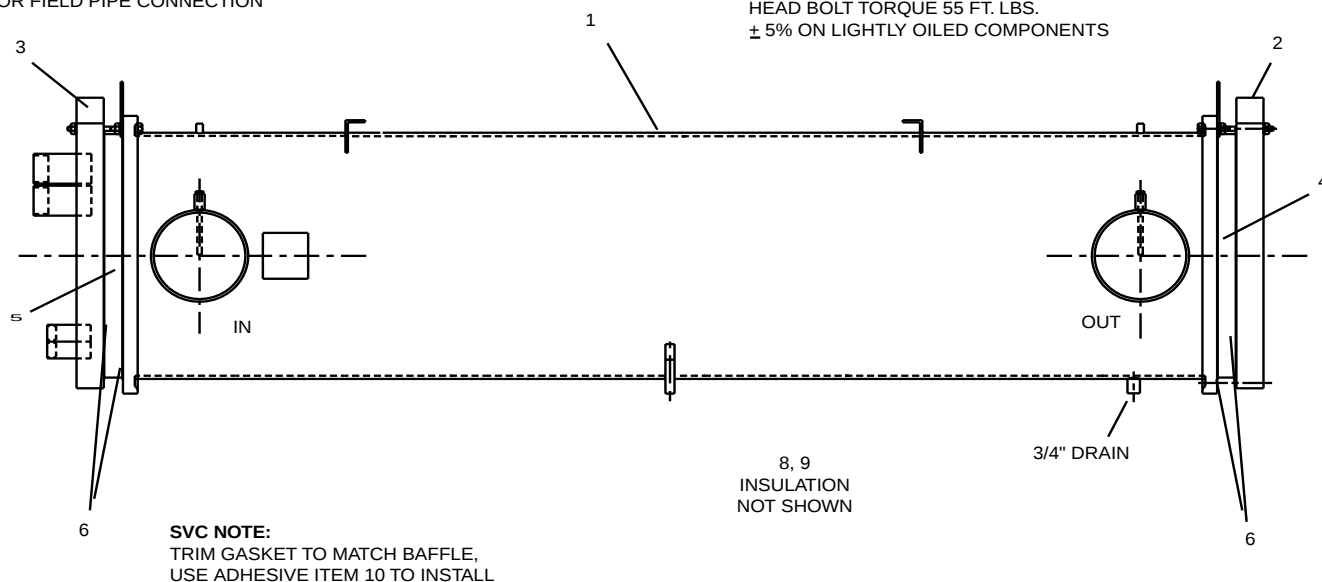
NOTES:

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

EVAPORATOR COMPONENTS

SVC NOTE:
UNSWEAT BRAZED ON
STEEL COUPLINGS –
FOR FIELD PIPE CONNECTION

SVC NOTE:
HEAD BOLT TORQUE 55 FT. LBS.
± 5% ON LIGHTLY OILED COMPONENTS



31642-1

FIG. 1 – EVAPORATOR COMPONENTS

- 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)

TABLE 1 – EVAPORATOR COMPONENTS

ITEM NUMBER	QTY. PER UNIT	DESCRIPTION	DWP	UNIT MODEL YCAS1063 AND YCAS1093	UNIT MODEL YCAS1163 AND YCAS1263
1	1	Cooler, less Heater & Insulation (Items 2 thru 6)	150	375-29879-000	375-29879-000
			300	375-31643-000	375-31643-000
2	1	Head, Connection End	ALL	375-29618-000	375-29618-000
3	1	Head, Back End	ALL	075-29620-000	375-27620-000
4	1	Baffle, Pass, Conn. End	ALL	375-31553-000	375-31553-000
5	1	Baffle, Pass, Back End	ALL	075-31552-000	075-31552-000
6^s	8	Gasket, Pass Baffle and Head	ALL	075-30239-000	075-30239-000
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	010-05598-000	010-05998-000
9^s	2.5	Insulation (1-1/2" x 49" x 65")	ALL	010-05997-000	010-05997-000

^s = Recommended Spare Parts

* Use on 1 1/2 insulated coolers only.

CONDENSER COIL COMPONENTS

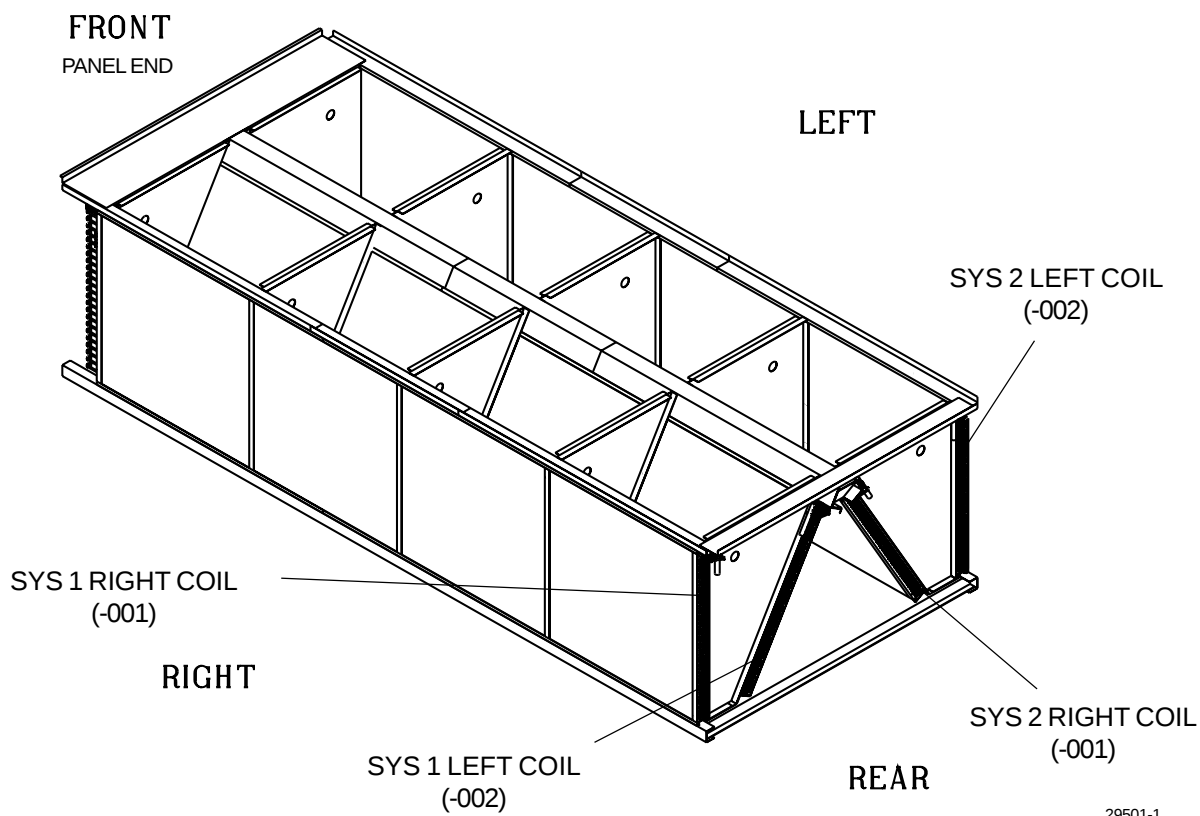


FIG. 2 – CONDENSER COIL LAYOUT - 16'-0" SHOWN

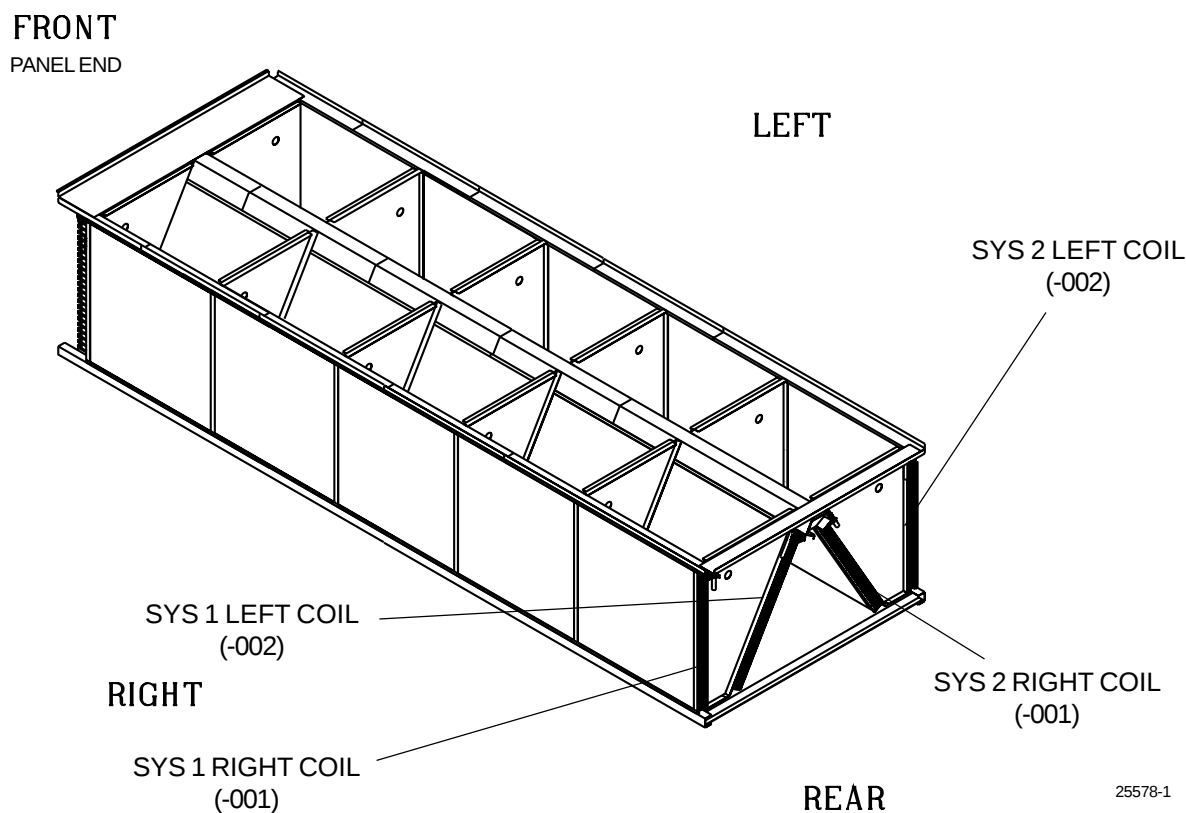
Coils for each circuit are denoted left and right as viewed from power panel end of chiller.

TABLE 2 – CONDENSER COILS – YCAS1063 AND YCAS1093

Description	Coil Location (Left or Right)	Unit Model			
		YCAS1063		YCAS1093	
		Front (20'-0")	Rear (12'-0")	Front (16'-0")	Rear (12'-0")
Coils, Condenser, Aluminum	Right	375-25578-001	375-27435-001	375-29501-001	375-27435-001
	Left	375-25578-002	375-27435-002	375-29501-002	375-27435-002
Coils, Condenser, Blackfin	Right	375-23771-001	375-23772-001	375-23770-001	375-23772-001
	Left	375-23771-002	375-23772-002	375-23770-002	375-23772-002
Coils, Condenser, Phenolic	Right	375-29009-001	375-29011-001	375-29010-001	375-29011-001
	Left	375-29009-002	375-29011-002	375-29010-002	375-29011-002
Coils, Condenser, Copper	Right	375-23777-001	375-23778-001	375-23776-001	375-23778-001
	Left	375-23777-002	375-23778-002	375-23776-002	375-23778-002

NOTES: Coil Assemblies are complete with headers.

CONDENSER COIL COMPONENTS - (CONT'D)

**FIG. 3 – CONDENSER COIL LAYOUT - 20'-0" SHOWN**

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

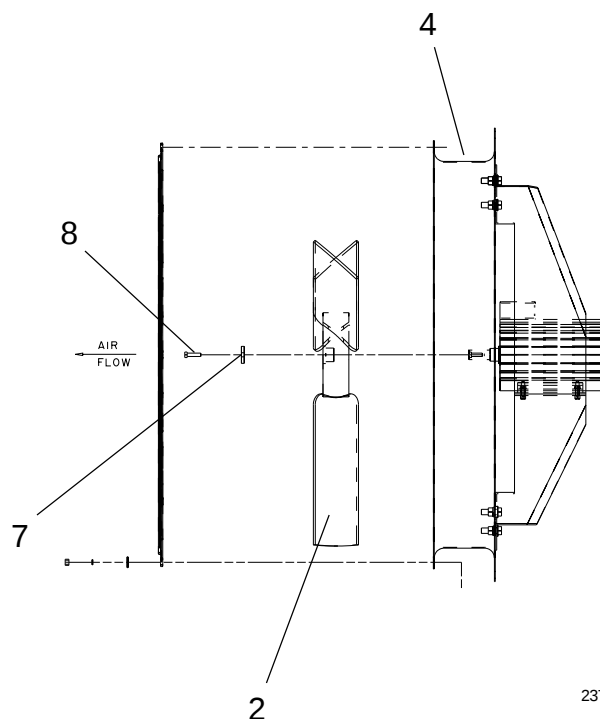
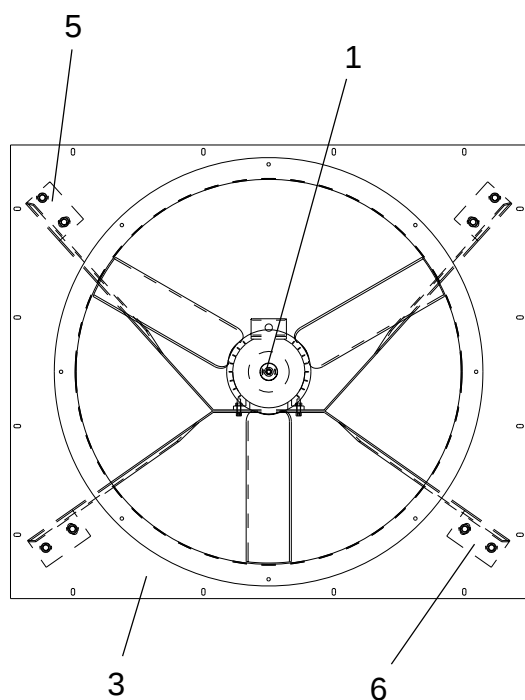
TABLE 3 – CONDENSER COIL COMPONENTS – YCAS1163 AND YCAS1263

Description	Coil Location (Left or Right)	Unit Model			
		YCAS1163		YCAS1263	
		Front (16'-0")	Rear (16'-0")	Front (16'-0")	Rear (16'-0")
Coils, Condenser, Aluminum	Right	375-29501-001	375-29501-001	375-29501-001	375-29501-001
	Left	375-29501-002	375-29501-002	375-29501-002	375-29501-002
Coils, Condenser, Blackfin	Right	375-23770-001	375-23770-001	375-23770-001	375-23770-001
	Left	375-23770-002	375-23770-002	375-23770-002	375-23770-002
Coils, Condenser, Phenolic	Right	375-29010-001	375-29010-001	375-29010-001	375-29010-001
	Left	375-29010-002	375-29010-002	375-29010-002	375-29010-002
Coils, Condenser, Copper	Right	375-23776-001	375-23776-001	375-23776-001	375-23776-001
	Left	375-23776-002	375-23776-002	375-23776-002	375-23776-002

NOTES: Coil Assemblies are complete with headers.

FAN COMPONENTS

Fans



23735-1

FIG. 4 – 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 4 – FAN COMPONENTS (STANDARD AND LOW NOISE)

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	026-35605-000	026-35605-001
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

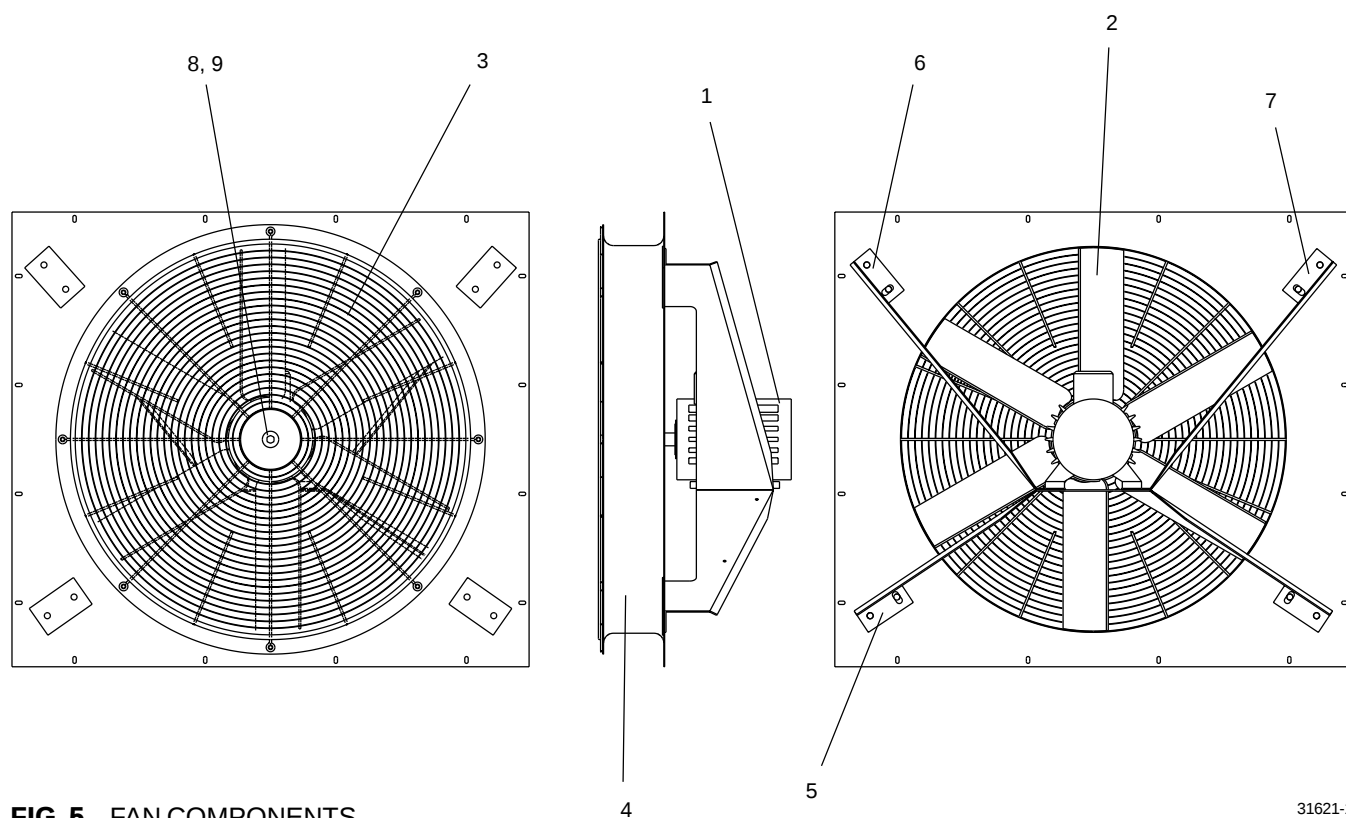


FIG. 5 – FAN COMPONENTS

31621-1

Service Note: Pin Location 52 in Model Number will be "H" for High Static Fan. See page 4.

TABLE 5 – FAN COMPONENTS (HIGH STATIC)

ITEM NUMBER	DESCRIPTION	VOLTAGE CODE	FAN TYPE
			HIGH HEAD 1 3/8" Ø SHAFT, 958 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.

REFRIGERANT AND OIL PIPING COMPONENTS

CHILLER MODEL YCAS – STYLE F

TABLE 6 – REFRIGERANT PIPING AND OIL PIPING COMPONENTS
(SEE FIGS. 6, 7 AND 8, PAGES 11, 12 AND 13)

ITEM NO.	QTY PER UNIT	DESCRIPTION	SYSTEM	YCAS1063	YCAS1093	YCAS1163	YCAS1263
1 ^s	2 2	Valve, Thermal Exp. - Cooler	All	025-33709 025-35757	025-33709 025-35757	025-33709 025-33709	025-33709 025-33709
2 ^s	2 or 4	Valve, Thermal Exp.- Econom.	N/A	N/A	(2) 025-33280	N/A	(4) 025-33280
3	4	Valve, Solenoid, Liq. Line	All	025-33704	025-33704	025-33704	025-33704
4	4	Dehydrator, Body (Replaceable Core)	All	026-21055	026-21055	026-21055	026-21055
5 ^s	8	Dehydrator Core	All	026-37540	026-37540	026-37540	026-37540
6	4	Moisture Indicator, Body	All	026-37548	026-37548	026-37548	026-37548
7	4	Moisture Indicator, Sight Glass Cap Assembly	All	026-37545	026-37545	026-37545	026-37545
8	4	Valve, Liquid Stop	All	022-09778	022-09778	022-09778	022-09778
9	8	Valve, Charging 3/8"	All	All Models – 022-09754-000			
10	2 or 4	Economizer, Heat X	N/A	N/A	(2) 026-34418	N/A	(4) 026-34418
11	2 per circuit*	Oil Separator	Right Side Left Side	All Models - Right Side: 075-23738-002 All Models - Left Side: 075-23738-001			
12	4	Valve, Ball, Oil Line	Both	All Models: 022-09172-000			
13	2 or 4	Valve, Solenoid, Econo	Both	N/A	(2) 025-33282	N/A	(4) 025-33282
14	4	Sensor, Oil Temp.	All	All Models: 025-30440-000			
15 ^s	4	Coil, Solenoid Fits Items 3 & 13	All	Sporlan – 025-35151-000; Alco – 025-35152-000			

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

^s Recommended Spare Part

REFRIGERANT AND OIL PIPING COMPONENTS - CONT'D

CHILLER MODEL YCAS - STYLE F

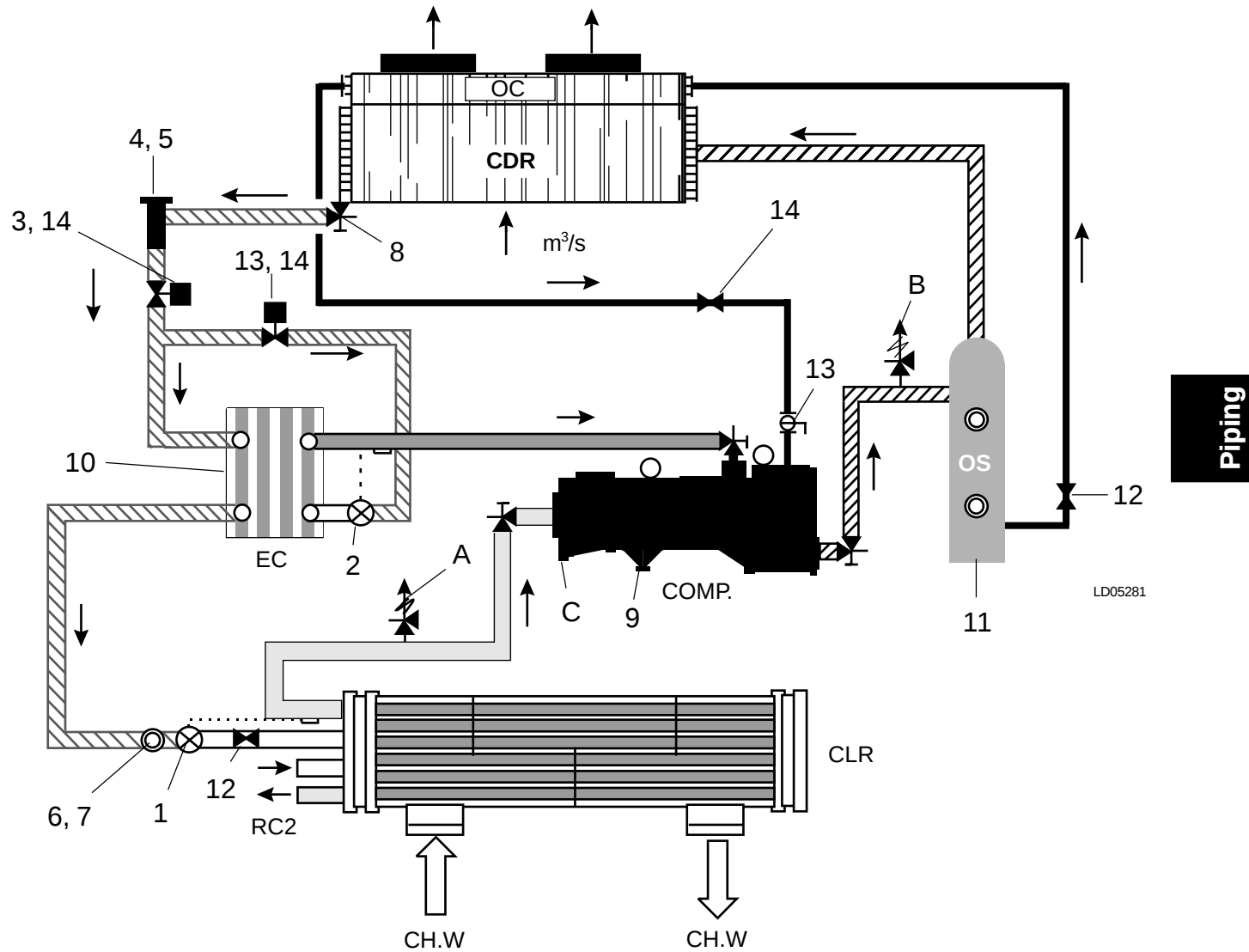
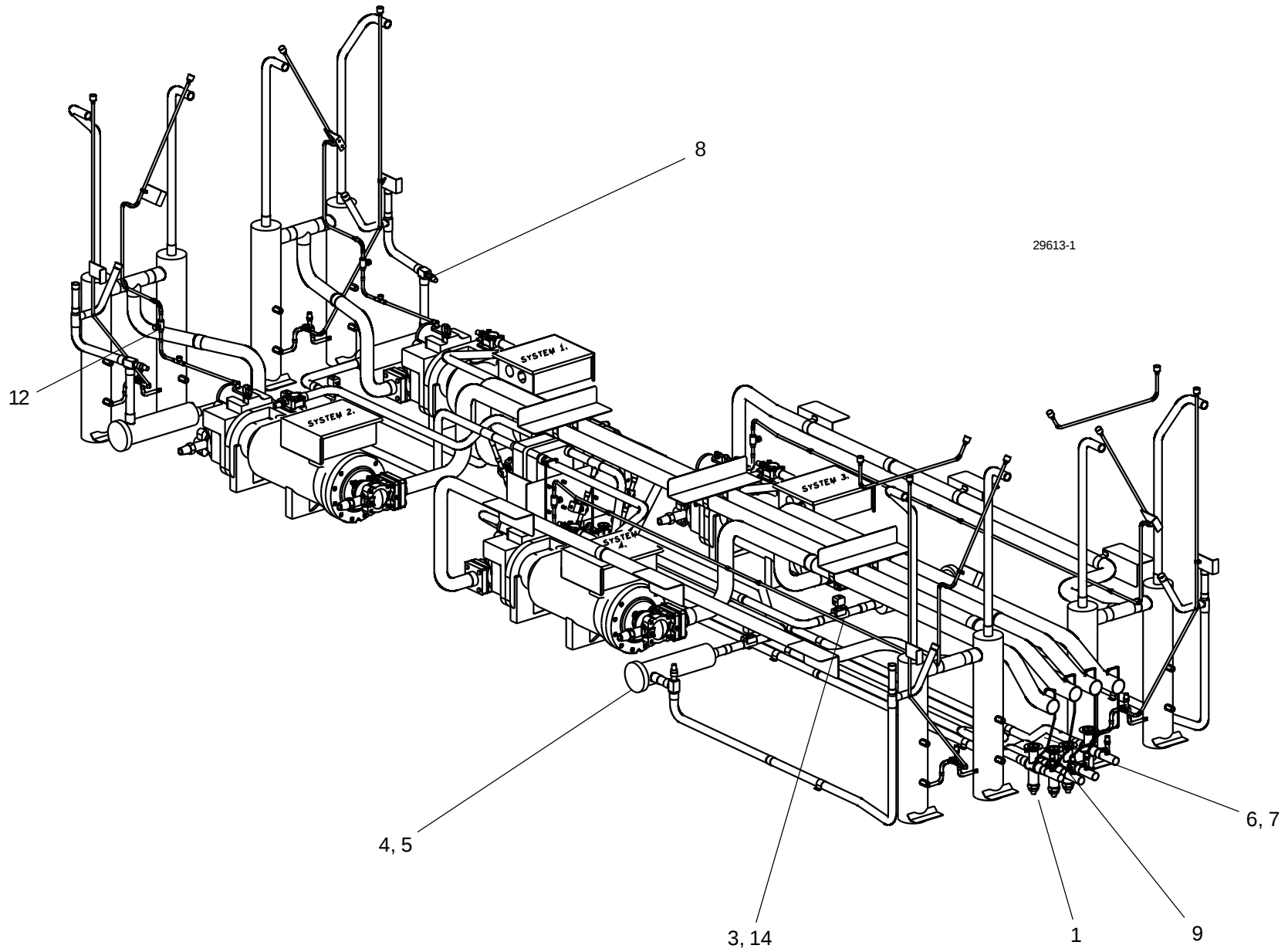


FIG. 6 – REFRIGERANT AND OIL PIPING LAYOUT (REF. TABLE 6, PAGE 10)

REFRIGERANT AND OIL PIPING COMPONENTS - CONT'D
CHILLER MODEL YCAS - STYLE F

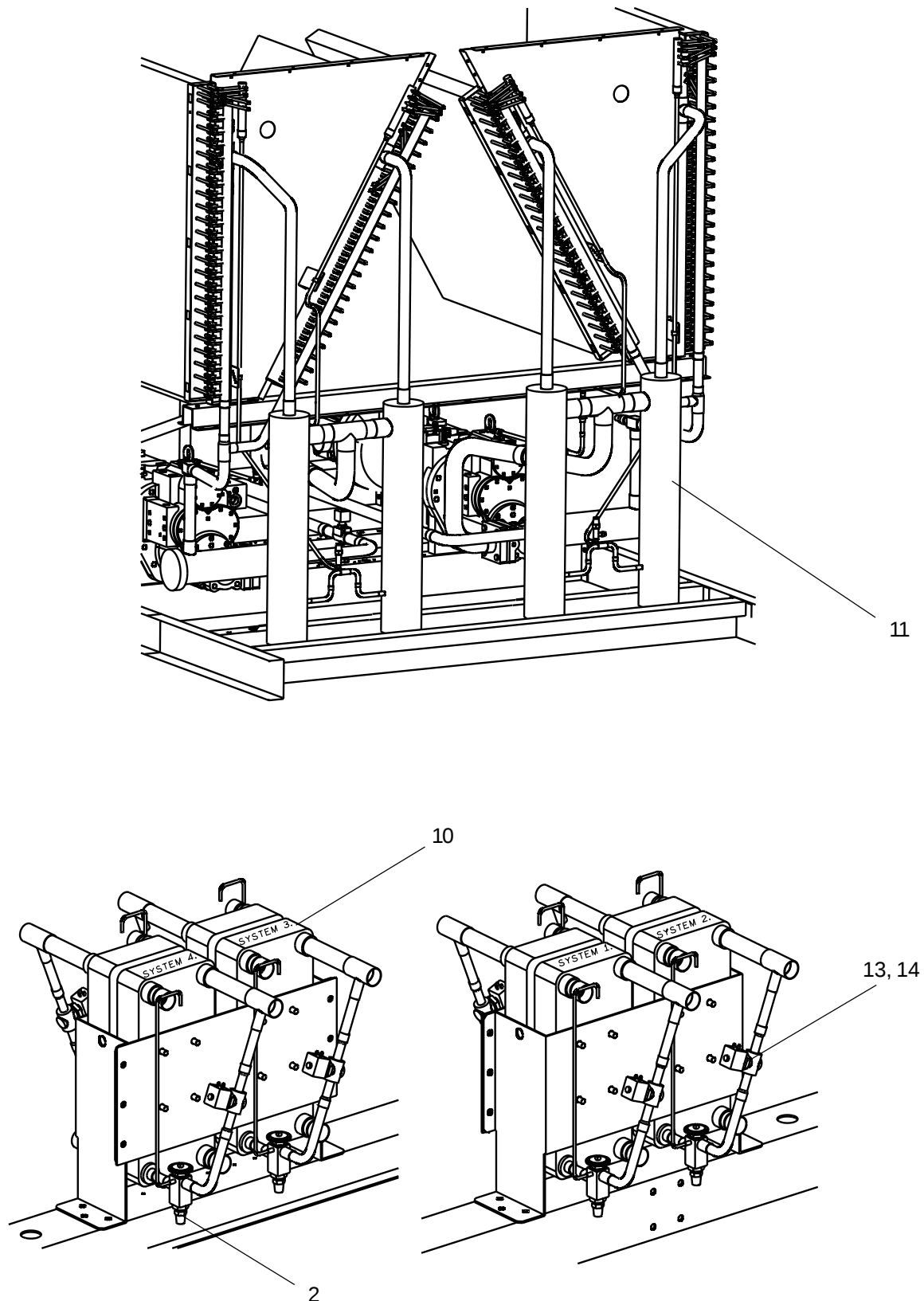


29613-1

FIG. 7 – REFRIGERANT AND OIL PIPING COMPONENTS (REF. TABLE 6, PAGE 10)

REFRIGERANT AND OIL PIPING COMPONENTS - CONT'D

CHILLER MODEL YCAS - STYLE F



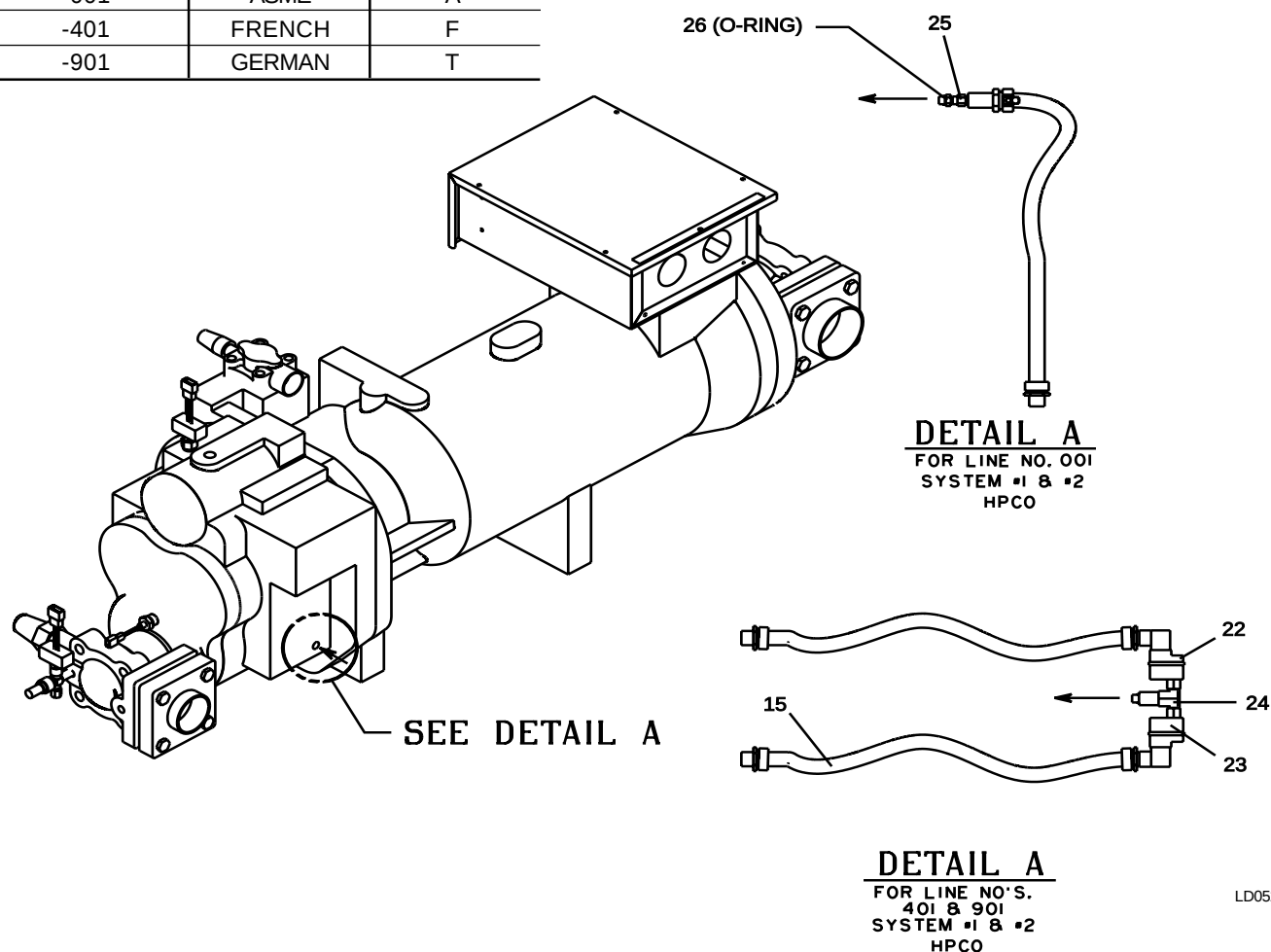
Piping

29613-2a

FIG. 8 – REFRIGERANT AND OIL PIPING COMPONENTS (REF. TABLE 6, PAGE 10)

RELIEF VALVES AND HP CUTOUT SWITCH

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



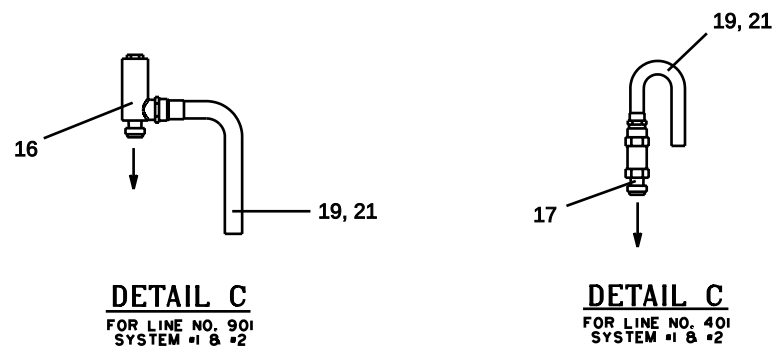
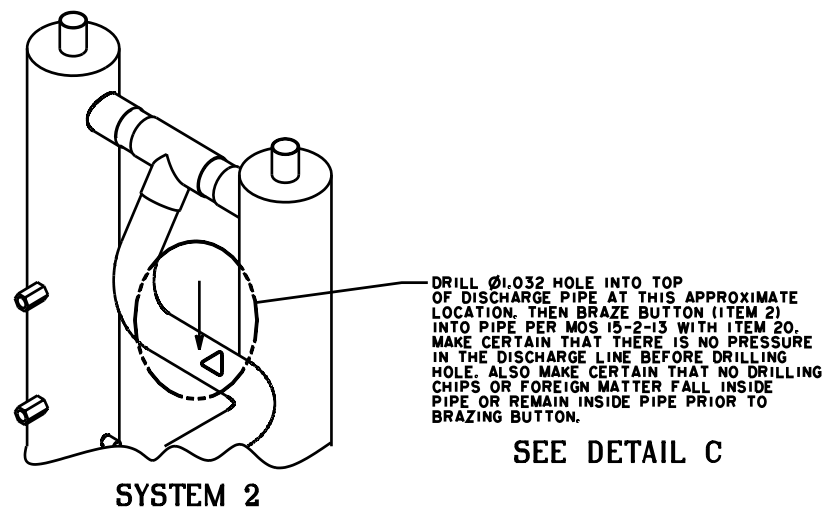
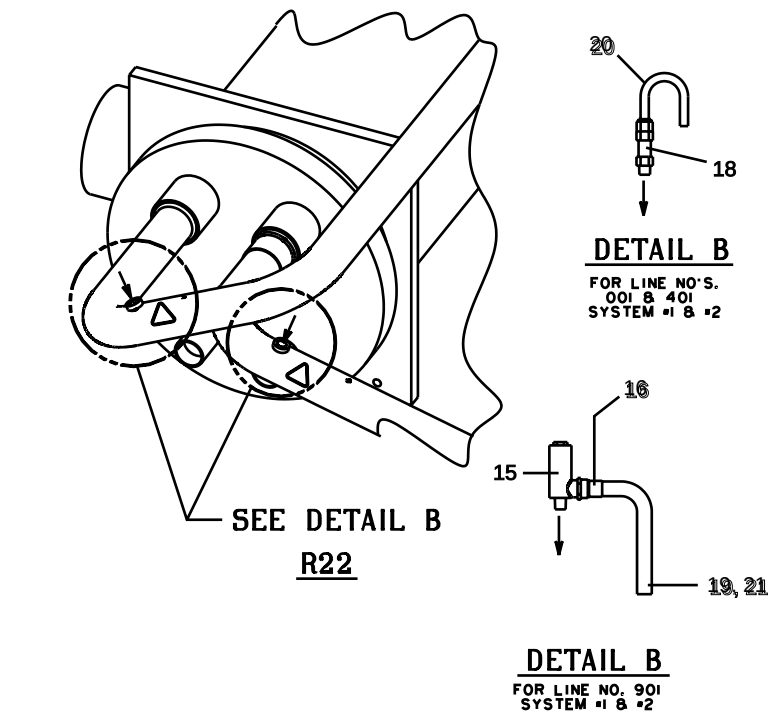
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FIG. 9 – RELIEF VALVES AND HP CUTOUT SWITCH (REF. TABLE 7, PAGE 14)

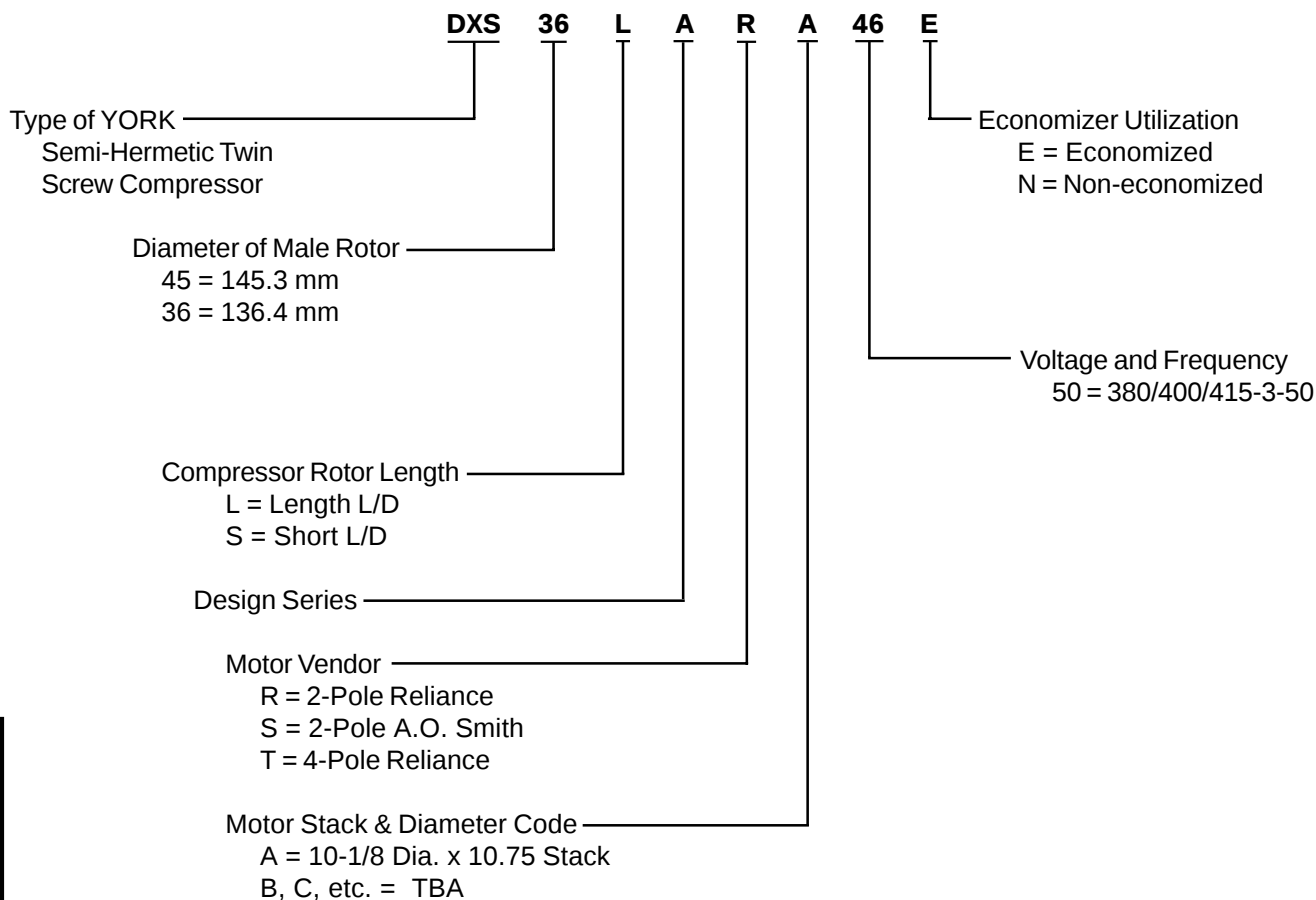
TABLE 7 – RELIEF VALVES AND HP CUTOUT SWITCH
(SEE FIG. 9 AND 10, PAGES 14 AND 15)

ITEM	QTY PER CHILLER	DESCRIPTION	SYSTEM	ALL MODELS
15	4	Low Side Relief, Angle V 21 Bar	Both	022-09793-000
16	4	High Side Relief, Angle V 31 Bar	Both	022-09794-000
17	4	High Side Relief, Str Thru 405 PSIG	Both	022-08863-000
18	4	Low Side Relief, Str Thru 300 PSIG	Both	022-03056-000
19	4	Tube for 15, 16, 17	Both	075-30993-000
20	4	Tube for 18	Both	375-30919-000
21	4	Adapter for 15,16, 17	Both	023-00124-000
22	4	HP Sw, Man Reset 27.9 Bar	Both	025-34119-000
23	4	HP Sw, Man Reset 27.2 Bar	Both	025-34120-000
24	4	Tee for 22/23	Both	023-00972-000
25	4	HP Sw, NC, Auto Reset, 405 PSIG	Both	025-30480-000
26	4	O-Ring, 3-904	Both	028-13540-000

RELIEF VALVES AND HP CUTOUT SWITCH - CONT'D

**FIG. 10** – RELIEF VALVES AND HP CUTOUT SWITCH (REF. TABLE 7, PAGE 14)

COMPRESSOR MODEL NOMENCLATURE



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

* LESS SERVICE VALVES

- COMPRESSOR ISOLATOR PAD KIT
(REDUCES SOUND AND VIBRATION)
475-37815-000 ONE PER EACH COMPRESSOR
(BECAME STANDARD MID 2000)

NOTE: COMPRESSOR FEET HOLD-DOWN BOLTS, TIGHTENED FROM THE UNDERSIDE OF THE FRAME RAILS, MUST BE REMOVED WHEN THE ISOLATOR PAD KIT IS INSTALLED.

MODEL DXS COMPRESSOR PART NUMBERS

TABLE 8 – MODEL DXS COMPRESSOR PART NUMBERS

MODEL	VOLTAGE CODE	MM SIZE		COMPRESSOR	
		SYS 1	SYS 2	SYSTEM # 1	SYSTEM # 2
YCAS1063	-50	145	145	364-49094-215	364-49094-215
YCAS1093	-50	145	145	364-49094-215	364-49094-215
YCAS1163	-50	145	145	364-49094-215	364-49094-215
YCAS1263	-50	145	145	364-49094-215	364-49094-215

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

TABLE 8 (CONT'D) – MODEL DXS COMPRESSOR PART NUMBERS

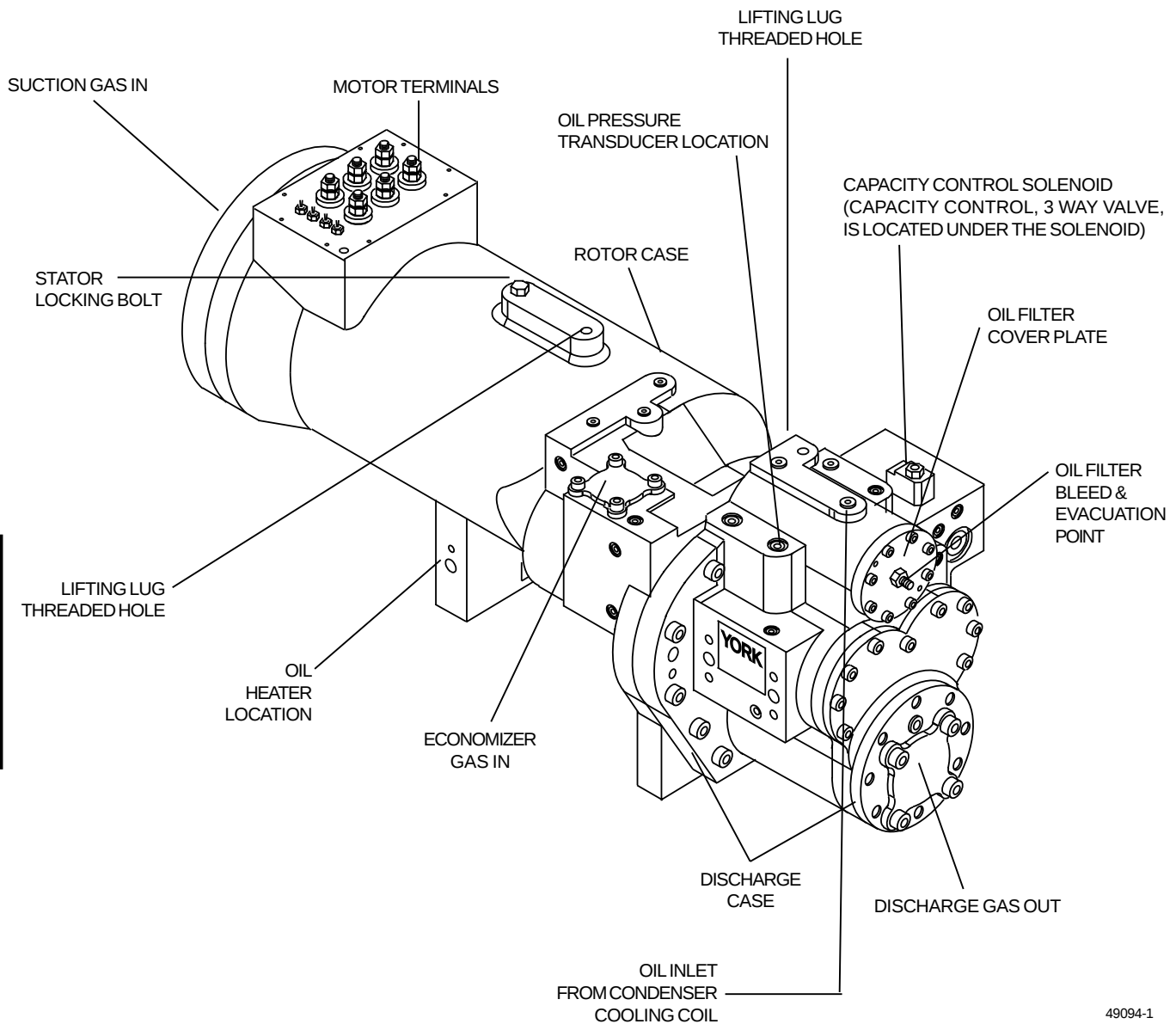
MODEL	VOLTAGE CODE	MM SIZE		COMPRESSOR	
		SYS 3	SYS 4	SYSTEM # 3	SYSTEM # 4
YCAS1063	-50	136	136	364-49093-215	364-49093-215
YCAS1093	-50	136	136	364-49093-215	364-49093-215
YCAS1163	-50	145	145	364-49094-215	364-49094-215
YCAS1263	-50	145	145	364-49094-215	364-49094-215

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

Compressor

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

DXS COMPRESSOR COMPONENTS



49094-1

FIG. 11 – DXS COMPRESSOR OUTLINE

DXS COMPRESSOR COMPONENTS / RELATED PARTS

TABLE 9 – COMPRESSOR ASSEMBLY (SEE FIG. 12, 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 (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 (136MM)	064-48972-000
	ROTOR, MALE (145MM)	064-48973-000
123	CASE, DISCHARGE (136MM)	064-48989-000
	CASE, DISCHARGE (145MM)	064-49097-000

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

TABLE 10 – COMPRESSOR OIL AND FILTER COMPONENTS
(SEE FIG. 14, PAGES 21 AND 22)

ITEM NO.	QTY PER COMP	DESCRIPTION	MODEL YCAS0360 - YCAS0440
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

DXS COMPRESSOR COMPONENTS / RELATED PARTS - CONT'D

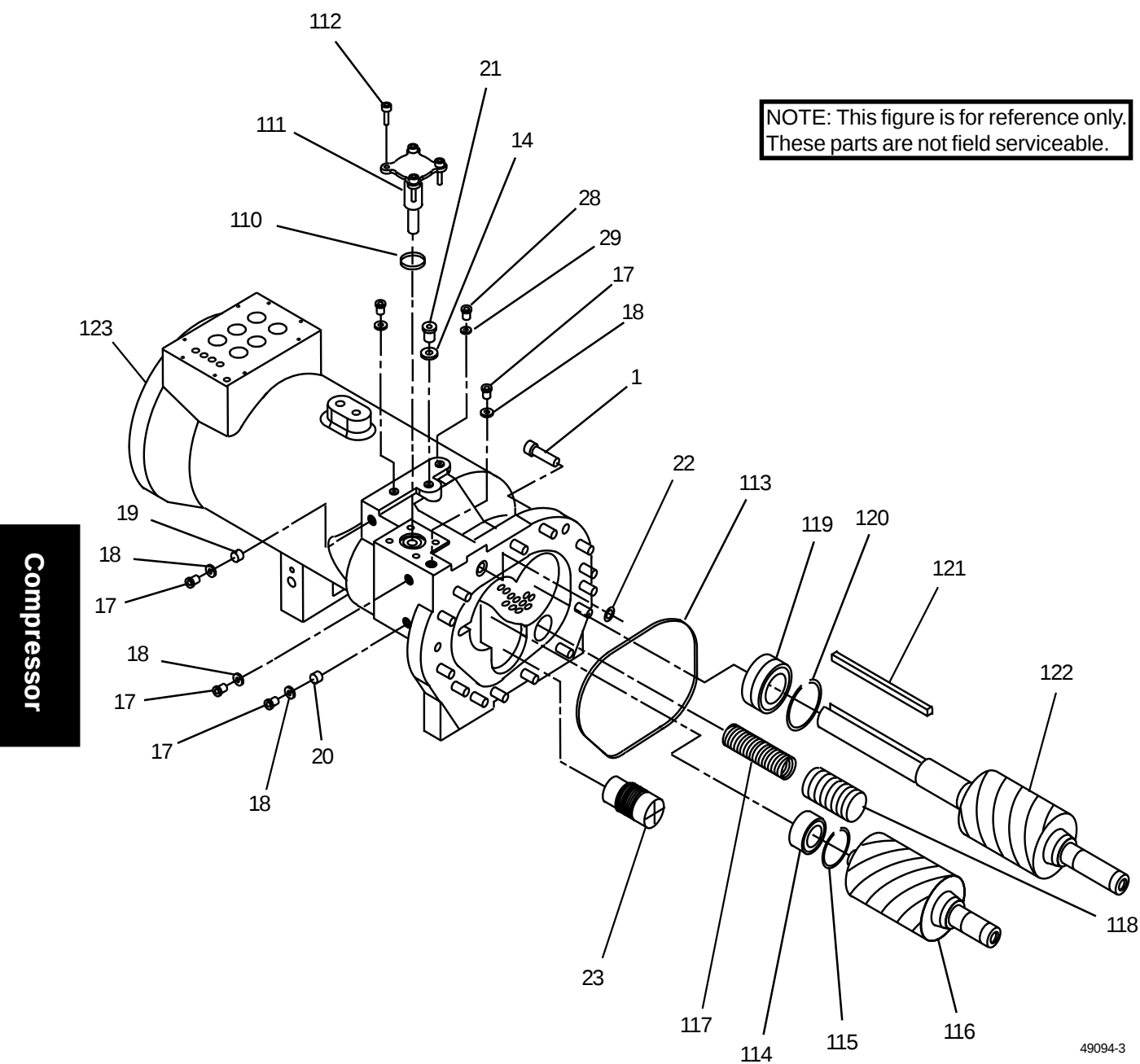
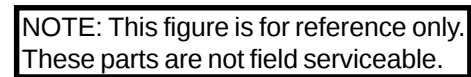


FIG. 12 – DXS COMPRESSOR PARTIAL EXPLODED VIEW (REF. TABLE 9, PAGE 19)

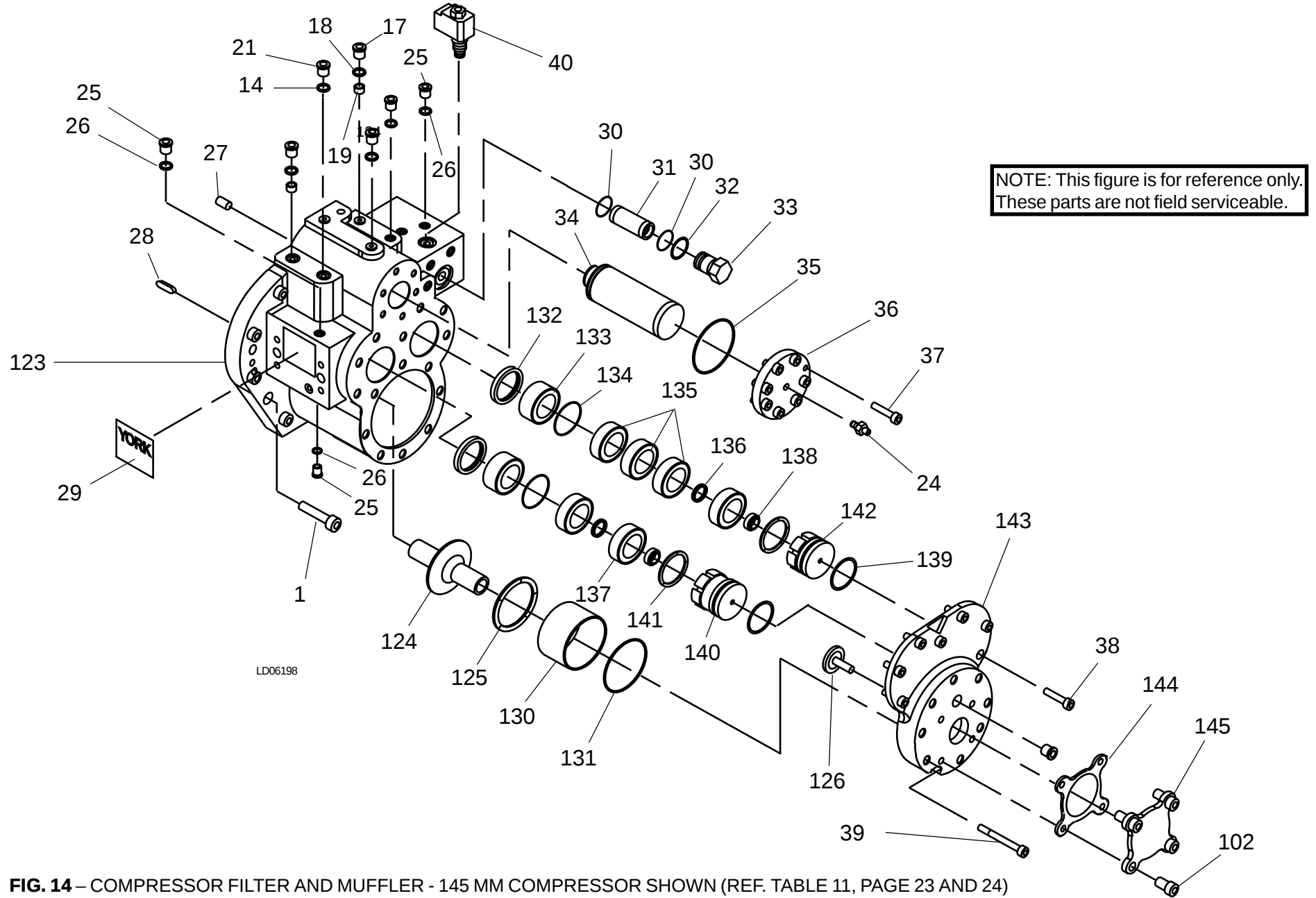
Compressor



LD06199

FIG. 13 – COMPRESSOR COMPONENTS - 145 MM COMPRESSOR SHOWN (REF. TABLE 11, PAGE 23 AND 24)

DXS COMPRESSOR COMPONENTS / RELATED PARTS - CONT'D



DXS COMPRESSOR COMPONENTS / RELATED PARTS - CONT'D

TABLE 11 – COMPRESSOR ASSEMBLY (SEE FIGS. 13 AND 14, PAGES 21 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	206-13946-000
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
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	029-22994-000
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
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

DXS COMPRESSOR COMPONENTS / RELATED PARTS - CONT'D

TABLE 11 (CONT'D) – COMPRESSOR ASSEMBLY (SEE FIGS. 13 AND 14, PAGES 21 AND 22)

ITEM NO.	PART DESCRIPTION	PART NUMBER
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
108	MOTOR, ROTOR	024-30470-000
109	CASE, ROTOR/MOTOR	064-49120-000
111	PLATE, VALVE COVER	064-50003-000
114	BEARING, FEMALE INLET	029-22704-000
115	RETAINING RING, FEMALE ROTOR	029-22721-000
116	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 (136MM)	064-48972-000
	ROTOR, MALE (145MM)	064-48973-000
123	CASE, DISCHARGE (136MM)	064-48989-000
	CASE, DISCHARGE (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
202	MOTOR, STATOR -50	024-30469-005

COMPRESSOR AND CONTROL COMPONENTS

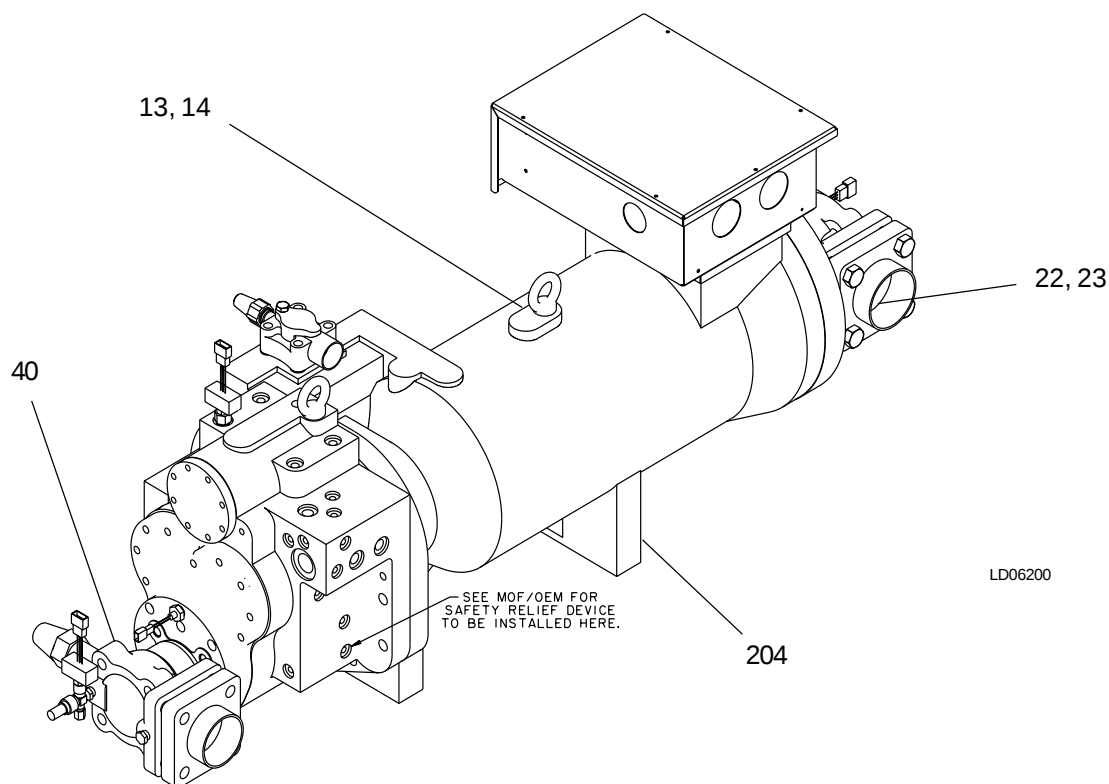
TABLE 12 – COMPRESSOR AND CONTROL COMPONENTS (SEE FIG. 13 AND 15)

ITEM NUMBER	QUANTITY PER COMP.	SYSTEM	DESCRIPTION	VOLTAGE CODE	PART NUMBER
13	2	All	Lock Pin, Stator, EC 1099	ALL	064-49954-000
14	2	All	O-ring, Lock Pin	ALL	028-13856-000
40^s	2	All	Valve, Capacity Control	ALL	025-33205-000
204	1	All	Heater, Compressor 145	120V	025-32938-000
			Heater, Compressor 136	120V	025-34511-000

^s Recommended Spare Part

TABLE 13 – COMPRESSOR STOP VALVES AND GASKETS (SEE FIG. 15)

COMPRESSOR	LOCATION	VALVE (22)	PART NUMBER	GASKET (23)
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. 15 – COMPRESSOR AND CONTROL COMPONENTS (REF. TABLES 12 AND 13)

CONTROL PANEL COMPONENTS

TABLE 14 – CONTROL PANEL COMPONENTS (SEE FIGS. 16 AND 17, PAGES 27 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	
^s 2	1	MicroBoard	031-01095-002	
^s 3	1	Power Supply Board	031-01094-000	
^s 4	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	115V / 24V
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)	031-01798-002	
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	031-01788-000	
39	1	Ribbon Cable	071-02253-254	
40	Varies	Plug, 6 Pin (Microboard)	025-28382-000	See Page 30
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	024-30910-000	
45	1	Smart I/O Expansion Board	031-01793-001	
46	1	EPROM (Use with Smart I/O Board)	031-02018-001	

^s Recommended Spare Part

CONTROL PANEL COMPONENTS - CONT'D

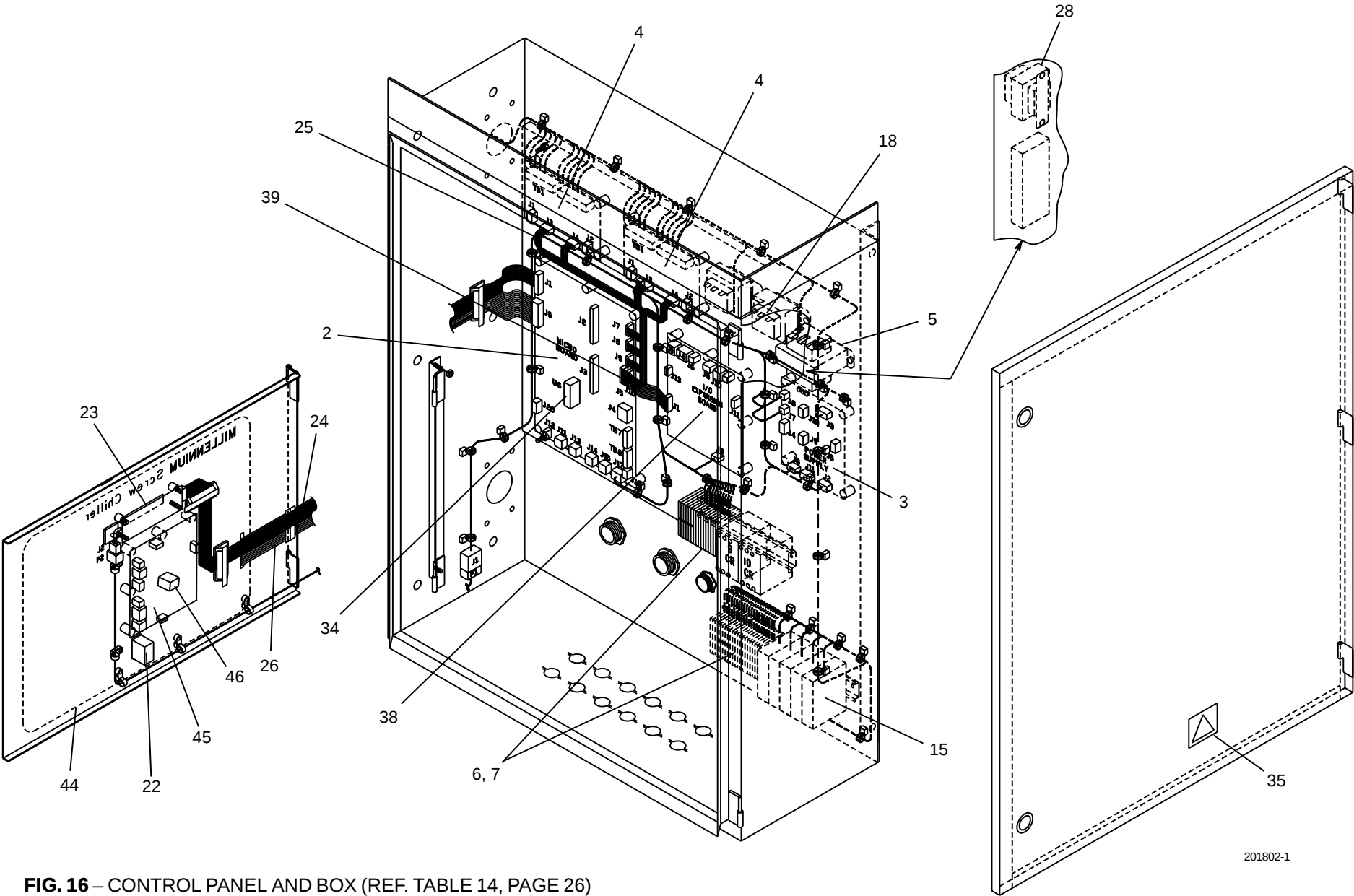


FIG. 16 – CONTROL PANEL AND BOX (REF. TABLE 14, PAGE 26)

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CONTROL PANEL COMPONENTS - CONT'D

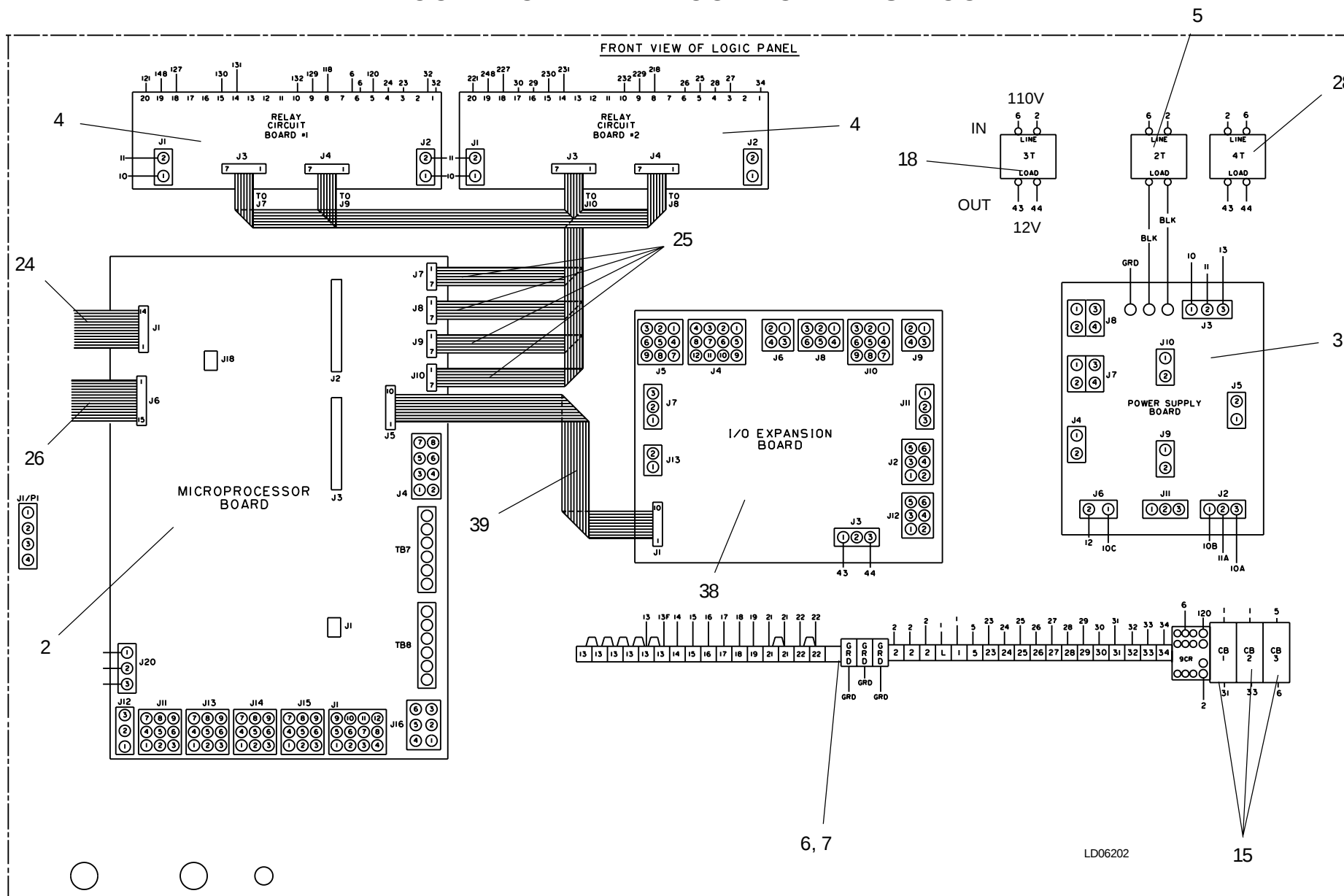


FIG. 17 – CONTROL PANEL CONNECTION DIAGRAM (REF. TABLE 14, PAGE 26)

SENSOR HARNESS

TABLE 15 – SENSOR HARNESS WIRING (SEE FIGS. 19 AND 20, PAGES 31 AND 32)

BOARD LOCATION	CABLE ITEM NO.	CABLE NO.	WIRE COLOR	PLUG PIN NO.	FUNCTION	HARNESS ASSEMBLY PART NUMBER
MICRO P13	104	1	RED	4	SYS #1 SUCTION PRESSURE	371-02504-211
			BLK	1		
			WHT	7		
			DRAIN	2		
	106	2	RED	5	SYS #1 OIL PRESSURE	371-02504-213
			BLK	3		
			WHT	8		
			DRAIN	9		
MICRO P14	105	3	RED	4	SYS #2 SUCTION PRESSURE	371-02504-212
			BLK	1		
			WHT	7		
			DRAIN	2		
	107	4	RED	5	SYS #2 OIL PRESSURE	371-02504-214
			BLK	3		
			WHT	8		
			DRAIN	9		
MICRO P11	120	5	RED	7	LEAVING CHILLED WATER	371-02504-236
			BLK	4		
			DRAIN	1		
	121	6	RED	8	ENTERING CHILLED WATER	371-02504-237
			BLK	5		
			DRAIN	2		
	122	7	RED	9	OUTSIDE AIR TEMP.	371-02504-238
			BLK	6		
			DRAIN	3		
MICRO P15	109	9	RED	4	SYS #2 DISCH. PRESSURE	371-02504-216
			BLK	1		
			WHT	7		
			DRAIN	2		
	108	8	RED	5	SYS #1 DISCH. PRESSURE	371-02504-215
			BLK	3		
			WHT	8		
MICRO P16	116	10	RED	5	SYS #1 SUCTION TEMP.	371-02504-231
			BLK	6		
			DRAIN	1		
	117	11	RED	2	SYS #2 SUCTION TEMP.	371-02504-232
			BLK	4		
			DRAIN	3		
I/O P10	100	16	RED	4	SYS #1 OIL TEMP.	371-02504-201
			BLK	7		
			DRAIN	3		
	101	17	RED	5	SYS #2 OIL TEMP.	371-02504-202
			BLK	6		
			DRAIN	2		
I/O P8	118	12	RED	2	SYS #1 DISCH. TEMP.	371-02504-233
			BLK	4		
			DRAIN	1		
	119	13	RED	5	SYS #2 DISCH. TEMP.	371-02504-234
			BLK	6		
			DRAIN	3		
I/O P2	129	31	RED (47)	1	SYS #1 SLIDE VALVE	371-02253-253
			BLK (48)	2		
			DRAIN	6		
I/O P12	130	32	RED (49)	1	SYS #2 SLIDE VALVE	371-02253-254
			BLK (50)	2		
			DRAIN	6		
I/O P2	133	54	RED (57)	3	SYS #3 SLIDE VALVE	371-02253-263
			BLK (58)	4		
			DRAIN	5		
I/O P12	134	55	RED (59)	3	SYS #4 SLIDE VALVE	371-02253-264
			BLK (60)	4		
			DRAIN	5		

Control Panel

SENSOR HARNESS - CONT'D

TABLE 15 (CONT'D) – SENSOR HARNESS WIRING (SEE FIGS. 19 AND 20, PAGES 31 AND 32)

BOARD LOCATION	CABLE ITEM NO.	CABLE NO.	WIRE COLOR	PLUG PIN NO.	FUNCTION	HARNESS ASSEMBLY PART NUMBER
I/O 2 P4	110	40	RED	5	SYS #3 SUCTION PRESSURE	371-02504-221
			BLK	1		
			WHT	10		
			DRAIN	2		
	112	41	RED	6	SYS #3 OIL PRESSURE	371-02504-223
			BLK	3		
			WHT	11		
			DRAIN	4		
	114	44	RED	7	SYS #3 DISCHARGE PRESSURE	371-02504-225
			BLK	8		
			WHT	12		
			DRAIN	9		
I/O 2 P7	111	42	RED	5	SYS #4 SUCTION PRESSURE	371-02504-221
			BLK	1		
			WHT	10		
			DRAIN	2		
	113	43	RED	6	SYS #4 OIL PRESSURE	371-02504-223
			BLK	3		
			WHT	11		
			DRAIN	4		
	115	45	RED	7	SYS #4 DISCHARGE PRESSURE	371-02504-225
			BLK	8		
			WHT	12		
			DRAIN	9		
I/O 2 P6	102	48	RED	4	SYS #3 OIL TEMPERATURE	371-02504-203
			BLK	8		
			DRAIN	1		
	125	50	RED	5	SYS #3 DISCHARGE TEMPERATURE	371-02504-243
I/O 2 P8	103	49	RED	9	SYS #4 OIL TEMPERATURE	371-02504-204
			BLK	12		
			DRAIN	5		
			RED	7		
	126	51	BLK	14	SYS #4 DISCHARGE TEMPERATURE	371-02504-244
			DRAIN	1		
			RED	9		
			BLK	12		
I/O 2 P5	123	46	RED	9	SYS #3 SUCTION TEMPERATURE	371-02504-242
			BLK	12		
			DRAIN	5		
			RED	10		
	124	47	BLK	13	SYS #4 SUCTION TEMPERATURE	371-02504-241
			DRAIN	6		
			RED	9		
			BLK	12		

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

Control Panel

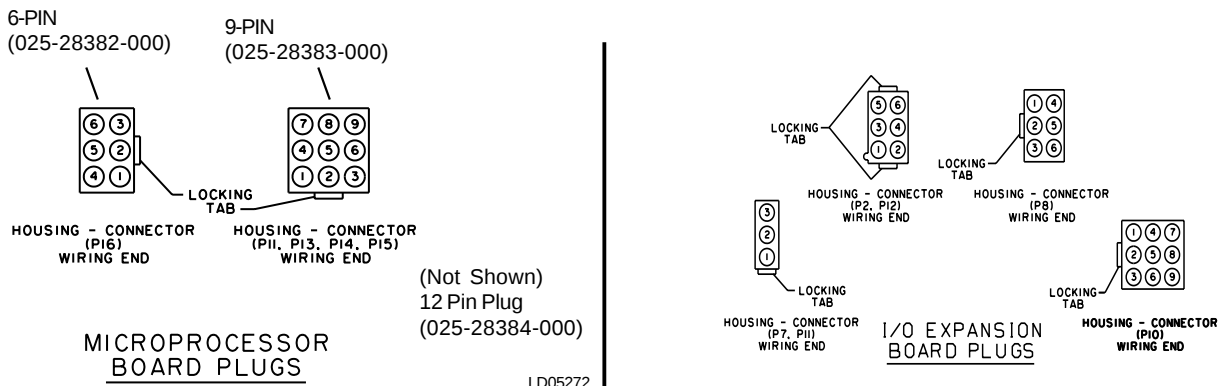
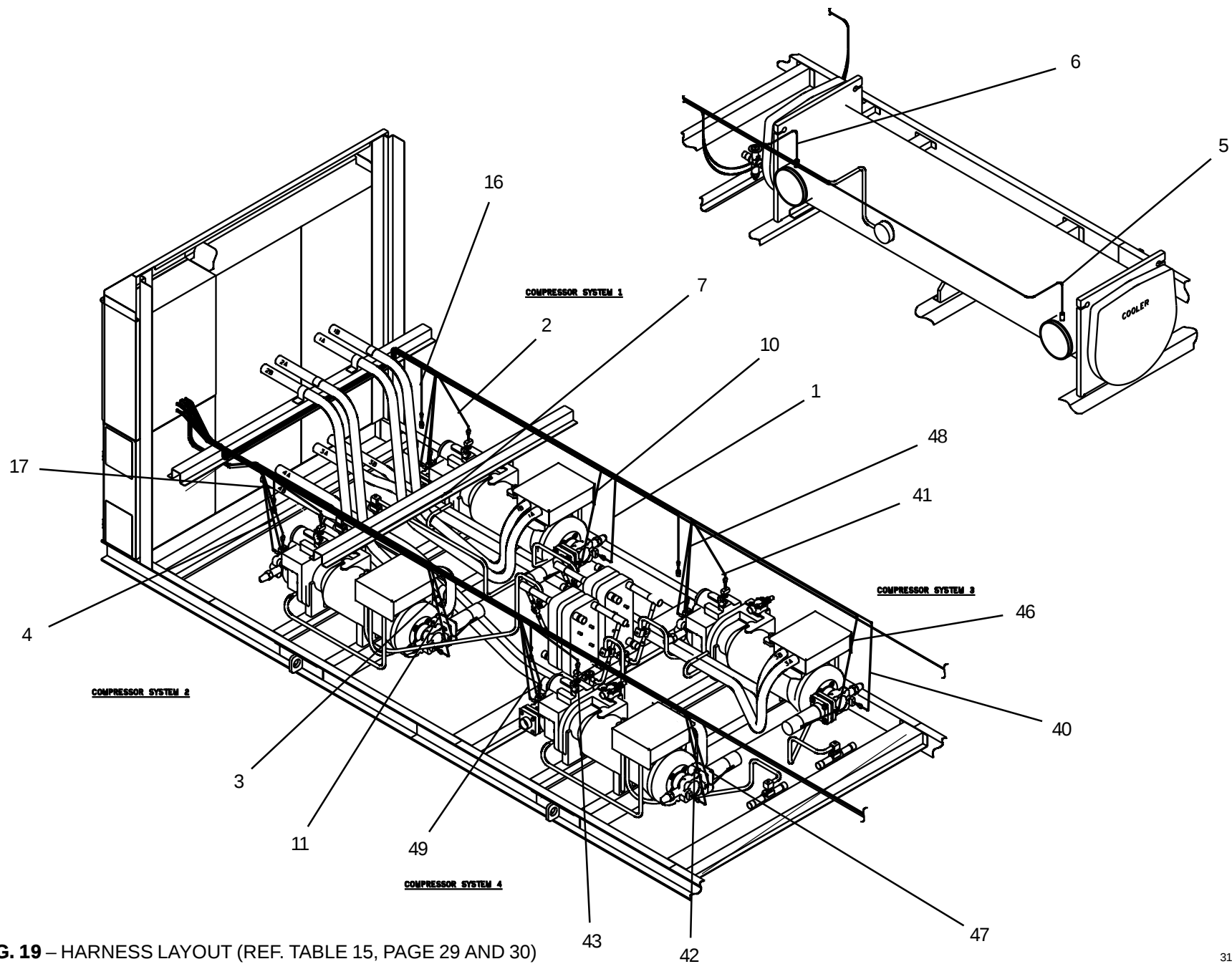


FIG. 18 – SENSOR HOUSING PART NUMBERS (SEE FIGS. 19 AND 20, PAGES 31 AND 32)



SENSOR HARNESS – CONT'D

FIG. 19 – HARNESS LAYOUT (REF. TABLE 15, PAGE 29 AND 30)

Control Panel

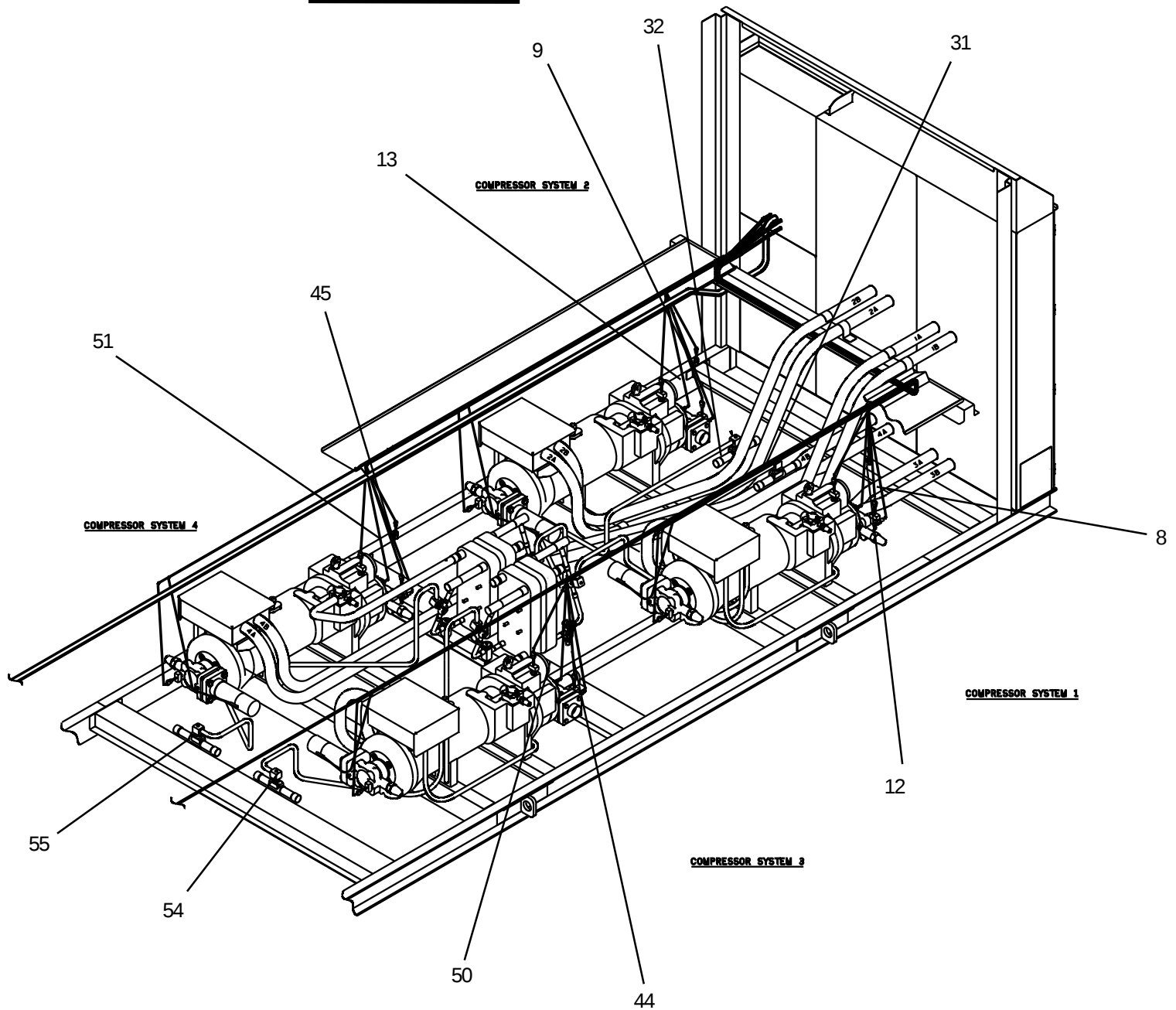


FIG. 20 – HARNESS LAYOUT (REF. TABLE 15, PAGES 29 AND 30)

31542-2

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

TABLE 16 – TRANSDUCER, TEMPERATURE SENSOR AND WIRE HARNESS CONNECTOR - FIELD REPLACEMENT PART NUMBERS - (SEE FIG. 21)

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

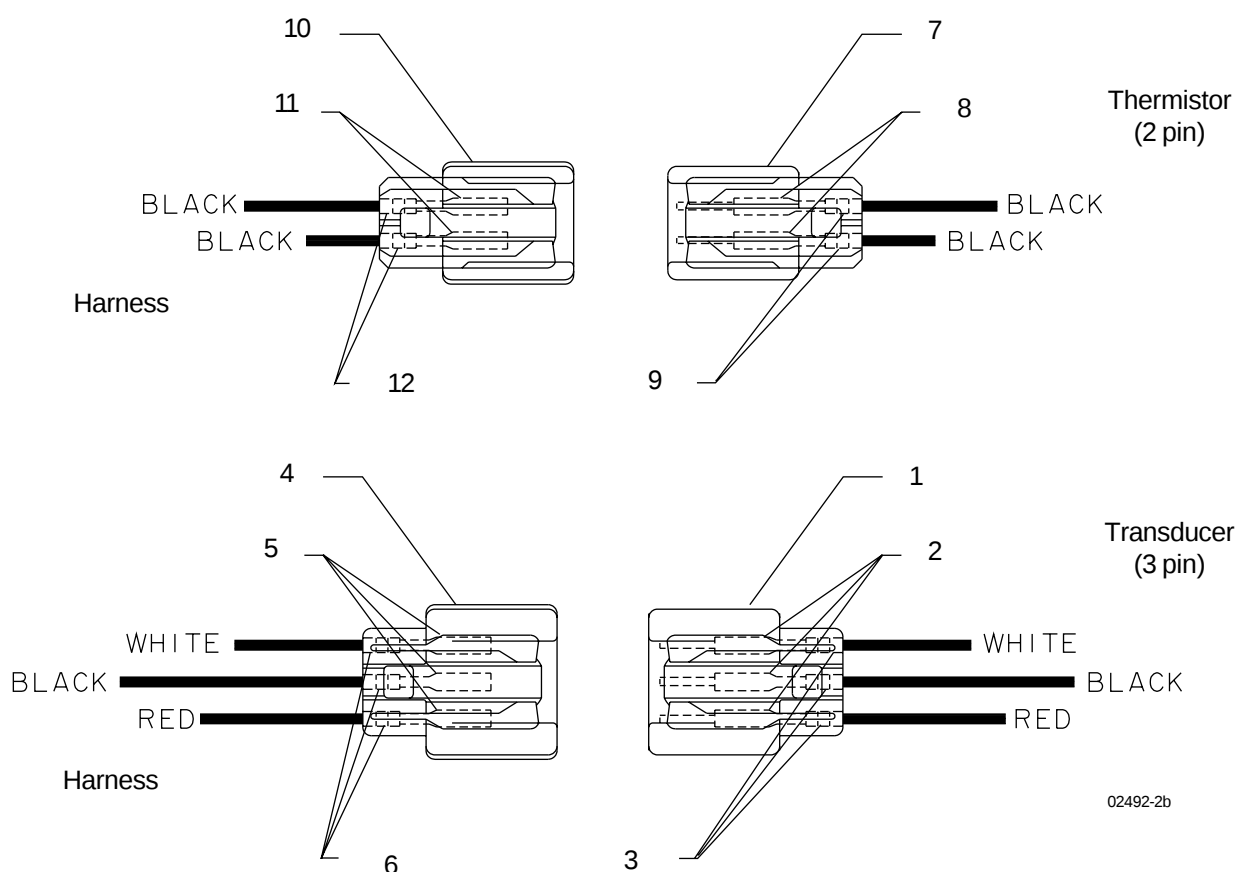


FIG. 21 – ADAPTER, TRANSDUCER AND TEMPERATURE SENSOR FIELD REPLACEMENT (REF. TABLE 16)

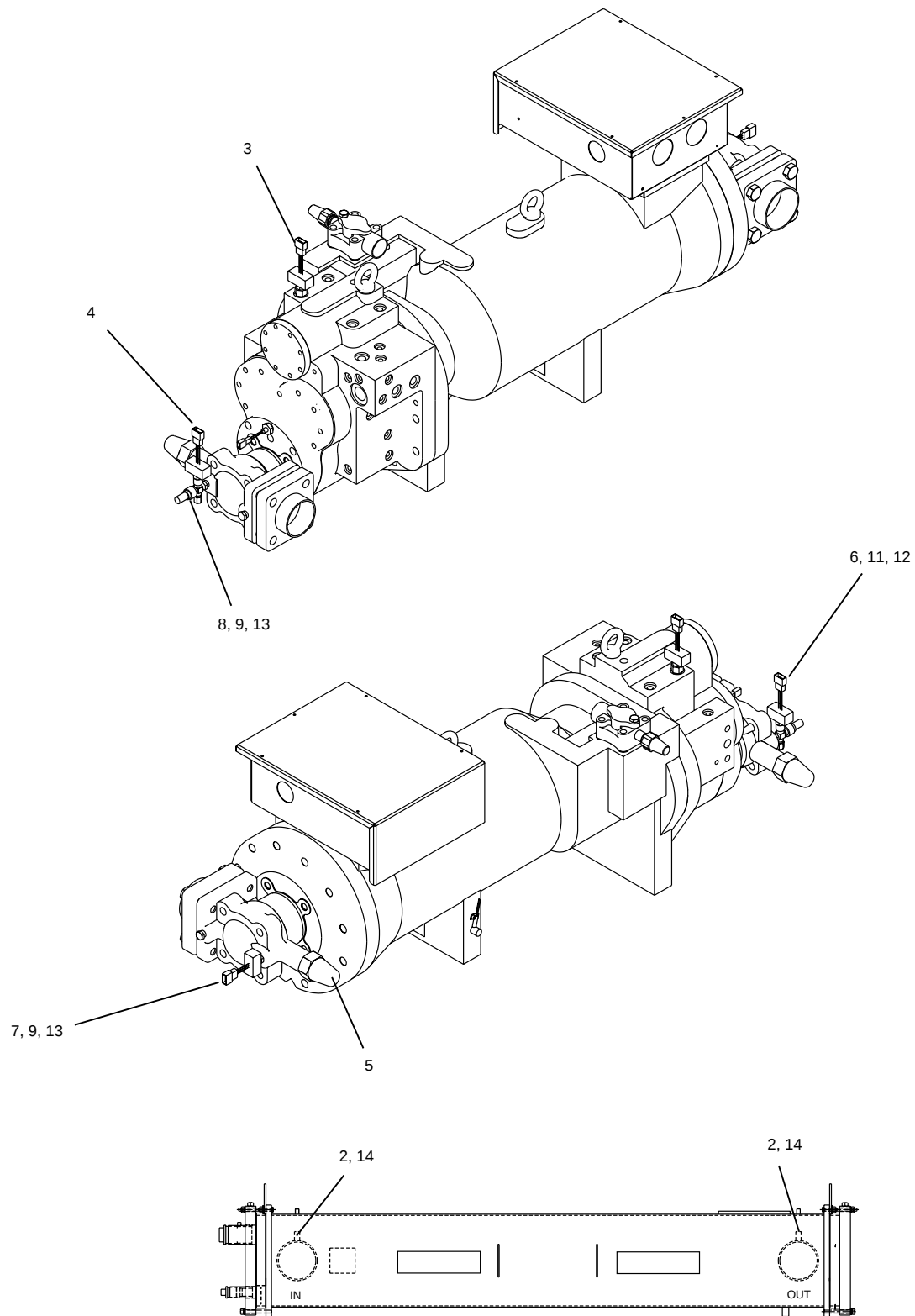
TRANSDUCERS AND TEMP SENSORS

TABLE 17 – TRANSDUCERS AND TEMP SENSORS (SEE FIG. 22, PAGE 35)

ITEM NUMBER	QUANTITY	SYSTEM	DESCRIPTION	VOLTAGE CODE	PART NUMBER
1^s	1	Unit	Sensor, Outside Air (Not Shown)	ALL	025-28663-001
2^s	4	Unit	Sensor, Water Temp.	ALL	025-29964-000
3^s	4	1 - 4	Sensor, Oil Temp.	ALL	025-30440-000
4^s	4	1 - 4	Sensor, Disc. Temp.	ALL	025-32924-000
5^s	4	1 - 4	Sensor, Suction Temp.	ALL	025-28935-000
6^s	4	1 - 4	Switch, High Press. Cutout	ALL	025-30480-000
7^s	4	1 - 4	Transducer 0-200 PSI Suction	ALL	025-29583-000
8^s	8	1 - 4	Transducer 0-400 PSI Discharge	ALL	025-29139-001
9	18	1 - 4	Valve, Transducer (Use with Items 7 & 8) 1/4 MPT x 1/4 FPT	ALL	022-09503-000
10	8	1 - 4	Valve, Charging (Oil, Refrig). 1/2 x 3/8 Flare (Not Shown)	ALL	022-09754-000
11	4	1 - 4	Adaptor, Mounting (Includes Item 12) (Use with Item 6)	ALL	023-18087-000
12	8	1 - 4	O-Ring (Use with Item 11)	ALL	028-13540-000
13	8	1 - 4	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

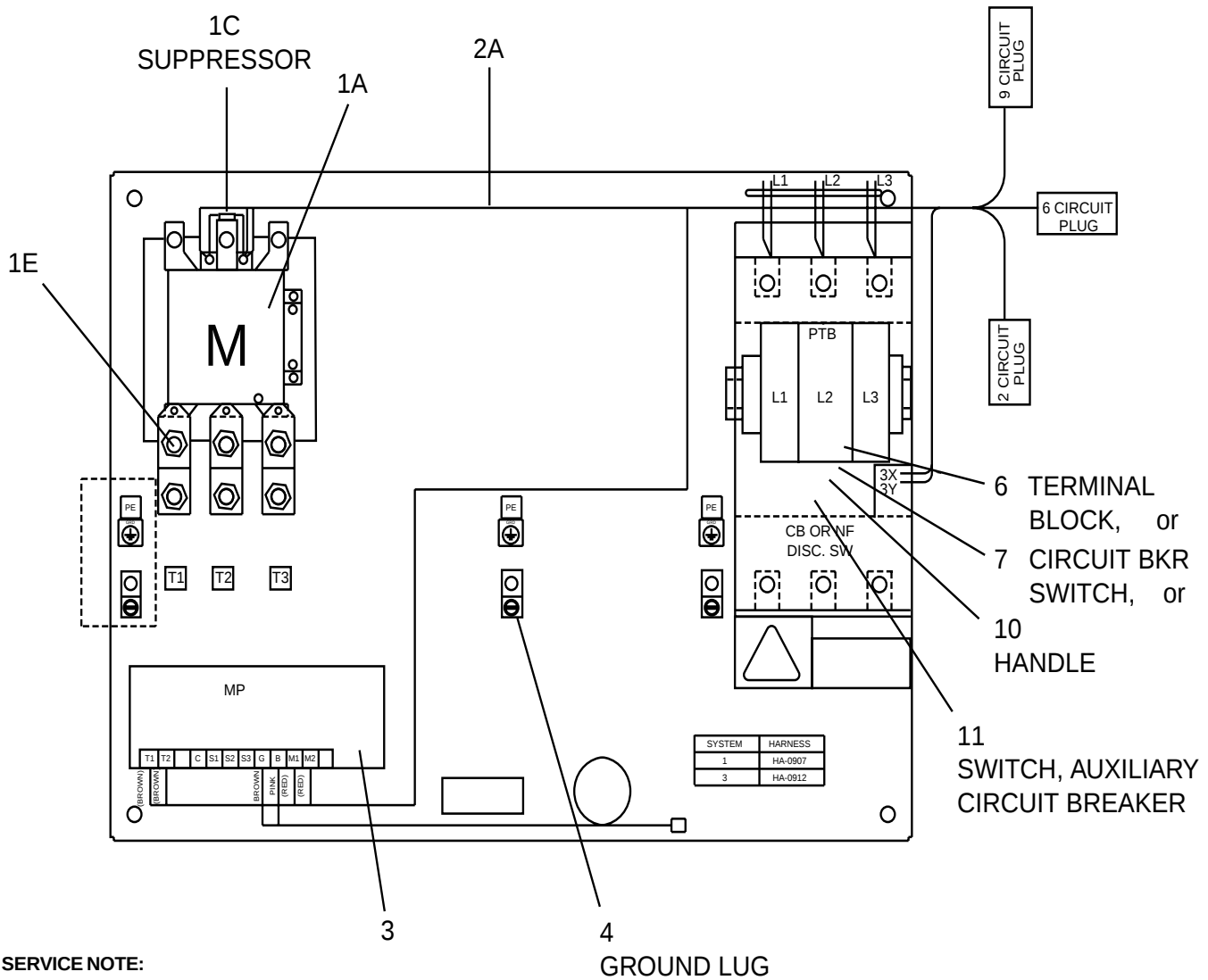
TRANSUDCERS AND TEMP SENSORS – CONT'D



Control Panel

FIG. 22 – TRANSUDCERS AND TEMP SENSORS (REF. TABLE 17, PAGE 34)

POWER PANEL - ACROSS-THE-LINE



SERVICE NOTE:

MP Terminals B & G are polarity sensitive.

LD05853

FIG. 23 – POWER PANEL - ACROSS-THE-LINE TYPICAL LAYOUT (REF. 'POWER PANEL COMPONENTS - ACROSS THE LINE' TABLE, PAGES 38 - 40)

POWER PANEL IDENTIFIERS - ACROSS-THE-LINE

TABLE 18 – 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 - 40 AND FIG. 23 ON PAGE 36).

Model	Power Panel with Terminal Block	Power Panel with Separate System Circuit Breakers
	Panel Number	Panel Number
YCAS1063E-50XF	371-02494-103	371-02494-203
YCAS1093E-50XF	371-02494-105	371-02494-205
YCAS1163E-50XF	371-02494-107	371-02494-206
YCAS1263E-50XF	371-02494-110	371-02494-210

POWER PANEL COMPONENTS - ACROSS-THE-LINE

TABLE 19 – POWER PANEL COMPONENTS - ACROSS THE LINE (SEE FIG. 23, PAGE 36)

ITEM	DESCRIPTION	QTY.	371-02494-103	371-02494-105	371-02494-107
1A	Contactors (Sys.1&2)	2	024-31638-000	024-31643-000	024-31638-000
	Contactors (Sys.3&4)	2	024-31642-000	024-31642-000	024-31638-000
1C	Surge Suppressor	12	031-00808-000	031-00808-000	031-00808-000
1E	Lugs, Contactor	2	025-34089-000	025-34089-000	025-34089-000
		2	025-34089-000	025-34089-000	025-34089-000
2A	120V Harness	4	071-02625-000	071-02625-000	071-02625-000
2B	High Voltage Power Wire	4	Obtain Locally	Obtain Locally	Obtain Locally
3 ^s	Motor Protector	4	024-30907-000	024-30907-000	024-30907-000
4	Ground Lug	4	025-34085-000	025-34087-000	025-34085-000
5	Ground Lug	4	025-34089-000	025-34089-000	025-34089-000
6	Terminal Block (Sys.1&2)	6	025-34408-000	025-34405-000	025-34408-000
	Terminal Block (Sys.3&4)	6	025-34454-000	025-34454-000	025-34408-000
7	Circuit Breaker	—	—	—	—
		—	—	—	—
8	NF Disc Switch	—	—	—	—
		—	—	—	—
10	Operator Mech.	—	—	—	—
11	Sw. C/B Aux.2A/2B	—	—	—	—

^s = Recommended Spare Parts

**TABLE 19 (CONT'D) – POWER PANEL COMPONENTS - ACROSS THE LINE
(SEE FIG. 23, PAGE 36)**

ITEM	DESCRIPTION	QTY.	371-02494-110	371-02494-203	371-02494-205
1A	Contactors (Sys.1&2)	2	024-31643-000	024-31638-000	024-31643-000
	Contactors (Sys.3&4)	2	024-31643-000	024-31642-000	024-31642-000
1C	Surge Suppressor	12	031-00808-000	031-00808-000	031-00808-000
1E	Lugs, Contactor	2	025-34089-000	025-34089-000	025-34089-000
		2	025-34089-000	025-34089-000	025-34089-000
2A	120V Harness	4	071-02625-000	071-02625-000	071-02625-000
2B	High Voltage Power Wire	4	Obtain Locally	Obtain Locally	Obtain Locally
3 ^s	Motor Protector	4	024-30907-000	024-30907-000	024-30907-000
4	Ground Lug	4	025-34087-000	025-34085-000	025-34085-000
5	Ground Lug	1	025-34087-000	025-34085-000	025-34085-000
6	Terminal Block (Sys.1&2)	6	025-34405-000	—	—
	Terminal Block (Sys.3&4)	6	025-34405-000	—	—
7	Circuit Breaker (Sys.1&2)	2	—	025-34424-000	025-34424-000
	Circuit Breaker (Sys.3&4)	2	—	025-31819-000	025-31819-000
8	NF Disc Switch	—	—	—	—
		—	—	—	—
10	Operator Mech.	4	—	025-34417-000	025-34417-000
11	Sw. C/B Aux.2A/2B	4	—	024-31646-000	024-31646-000

^s = Recommended Spare Parts

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

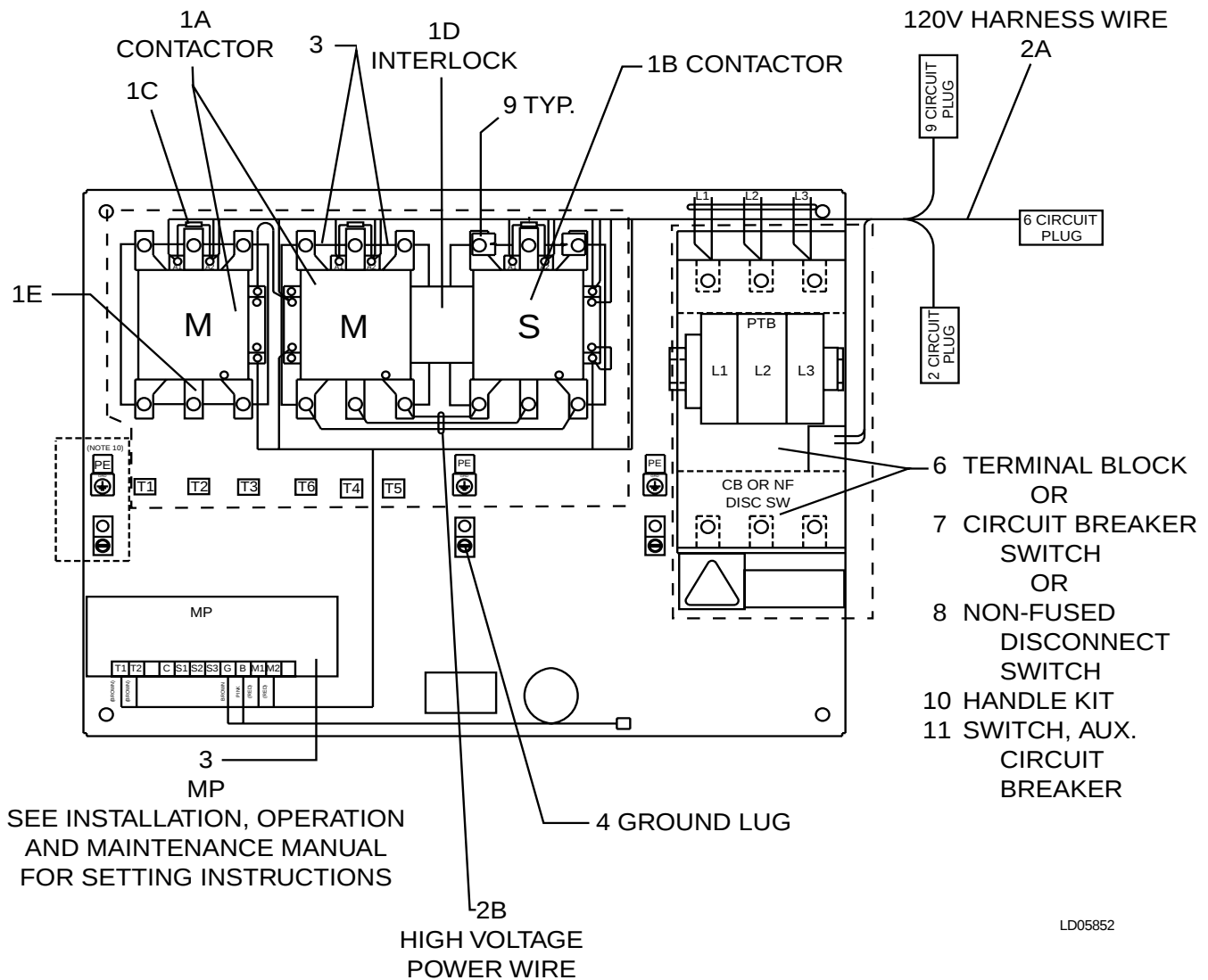
POWER PANEL COMPONENTS - ACROSS-THE-LINE - CONT'D

TABLE 19 (CONT'D) – POWER PANEL COMPONENTS - ACROSS THE LINE (SEE FIG. 23, PAGE 36)

ITEM	DESCRIPTION	QTY.	371-02494-206	371-02494-210
1A	Contactor (Sys.1&2)	2	024-31638-000	024-31643-000
	Contactor (Sys.3&4)	2	024-31638-000	024-31643-000
1C	Surge Suppressor	12	031-00808-000	031-00808-000
1E	Lugs, Contactor	2	025-34089-000	025-34089-000
		2	025-34089-000	025-34089-000
2A	120V Harness	4	071-02625-000	071-02625-000
2B	High Voltage Power Wire	4	Obtain Locally	Obtain Locally
3 ^s	Motor Protector	4	024-30907-000	024-30907-000
4	Ground Lug	4	025-34485-000	025-34485-000
5	Ground Lug	4	025-34485-000	025-34485-000
6	Terminal Block	—	—	—
		—	—	—
7	Circuit Breaker (Sys.1&2)	2	025-34424-000	025-34424-000
	Circuit Breaker (Sys.3&4)	2	025-34424-000	025-34424-000
8	NF Disc Switch	—	—	—
		—	—	—
10	Operator Mech.	4	025-34417-000	025-34417-000
11	Sw. C/B Aux.2A/2B	4	024-31646-000	024-31646-000

^s = Recommended Spare Parts**Note:** Highlighted numbers refer to Power Panel Identifiers shown on page 37.

POWER PANEL COMPONENTS - WYE-DELTA



LD05852

FIG. 24 – POWER PANEL COMPONENTS - WYE DELTA (REF. 'POWER PANEL COMPONENTS- 'WYE DELTA" TABLE, PAGE 42)

POWER PANEL IDENTIFIERS - WYE DELTA

TABLE 20 – 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 FIG. 24 ON PAGE 40).

Model	Power Panel with Terminal Block	Power Panel with Separate System Circuit Breakers
	Panel Number	Panel Number
YCAS1063E-50YF	N/A	371-02494-225
YCAS1093E-50YF	N/A	371-02494-225
YCAS1163E-50YF	N/A	371-02494-227
YCAS1263E-50YF	N/A	371-02494-227

POWER PANEL COMPONENTS - WYE-DELTA

TABLE 21 – POWER PANEL COMPONENTS - WYE DELTA (SEE FIG. 24, PAGE 41)

ITEM	DESCRIPTION	QTY.	371-02494-225	371-02494-227	371-02494-229
1A	Contact M (Sys.1&2)	2 ea.	024-26577-000	024-26577-000	024-31639-000
	Contact M (Sys.3&4)	2 ea.	024-31639-000	024-26577-000	024-26577-000
1B	Contact S (Sys.1&2)	1 ea.	024-26577-000	024-26577-000	024-31602-000
	Contact S (Sys.3&4)	1 ea.	024-31602-000	024-26577-000	024-26577-000
1C	Surge Suppressor	12	031-00808-000	031-00808-000	031-00808-000
1D	Mech Interlock (Sys.1&2)	2	024-31600-000	024-31600-000	024-31600-000
	Mech Interlock (Sys.3&4)	2	024-31601-000	024-31600-000	024-31637-000
2A	120V Harness (Sys.1&2)	2	071-02600-000	071-02600-000	071-02600-000
	120V Harness (Sys.3&4)	2	071-02601-000	071-02601-000	071-02601-000
2B	High Voltage Power Wire	4	Obtain Locally	Obtain Locally	Obtain Locally
3^s	Motor Protector	4	024-30907-000	024-30907-000	024-30907-000
4	Ground Lug	4	025-34085-000	025-34085-000	025-34085-000
5	Ground Lug	4	025-34089-000	025-34089-000	025-34089-000
6	Terminal Block	—	—	—	—
		—	—	—	—
7	Circuit Breaker (Sys.1&2)	2	025-34424-000	025-34424-000	025-34419-000
	Circuit Breaker (Sys.3&4)	2	025-31819-000	025-34424-000	025-34424-000
8	NF Disc Switch	—	—	—	—
		—	—	—	—
10	Operator Mech.	4	025-34417-000	025-34417-000	025-34417-000
11	Sw. C/B Aux.2A/2B	4	024-31646-000	024-31646-000	024-31646-000

^s = Recommended Spare Parts

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

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4 FAN CONTACTOR PANEL COMPONENTS (All other contactor panels similar)

TABLE 22 – 4 FAN CONTACTOR PANEL COMPONENTS – YCAS F (SEE FIG. 25, PAGE 45)

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.

4 FAN CONTACTOR PANEL COMPONENTS - CONT'D
(All other contactor panels similar)

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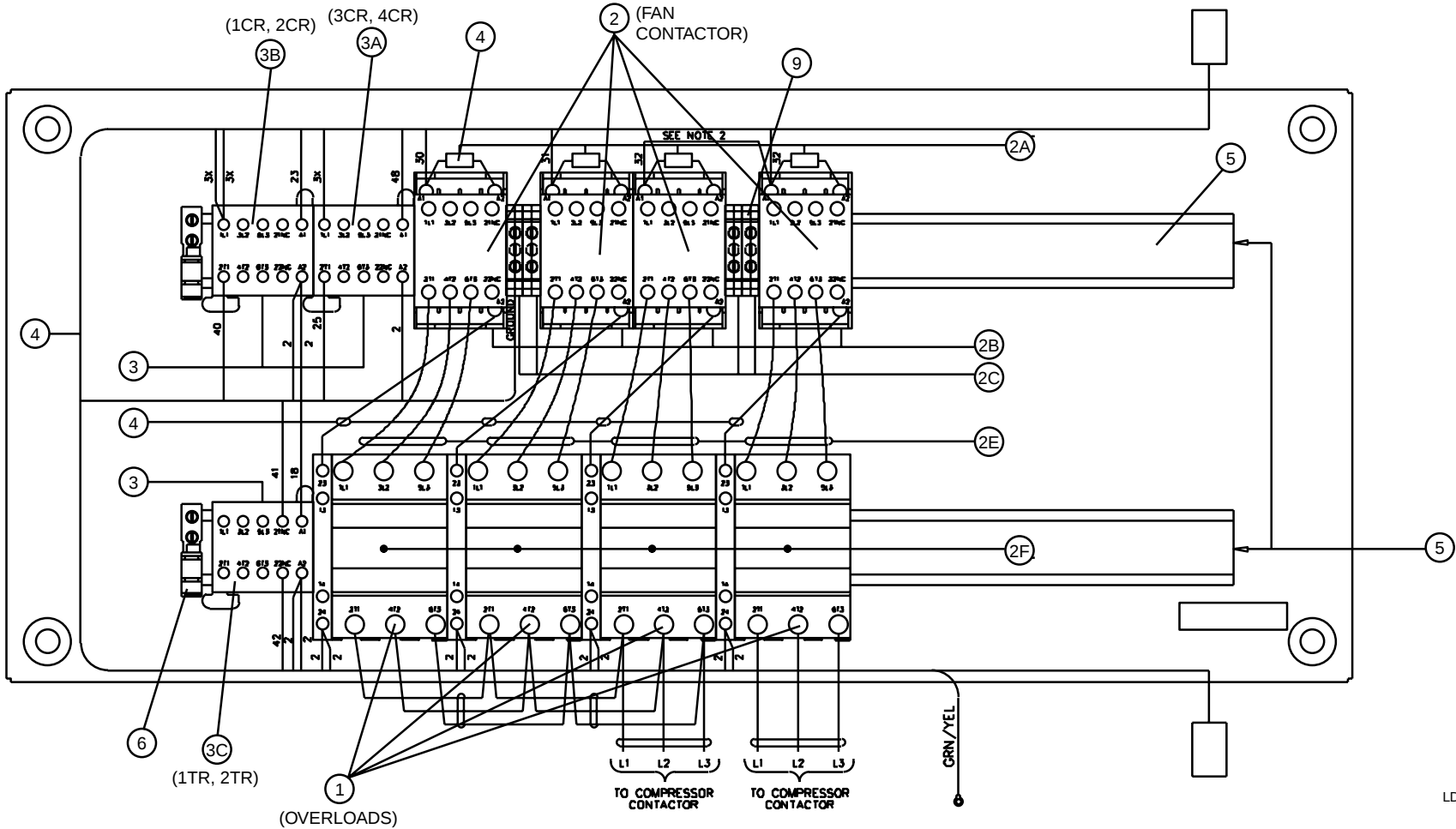


FIG. 25 – 4 FAN CONTACTOR PANEL (REF. TABLE 22, PAGE 44)

Power Panel

OPTION AND POWER PANEL CONFIGURATIONS

4 COMPRESSOR UNIT

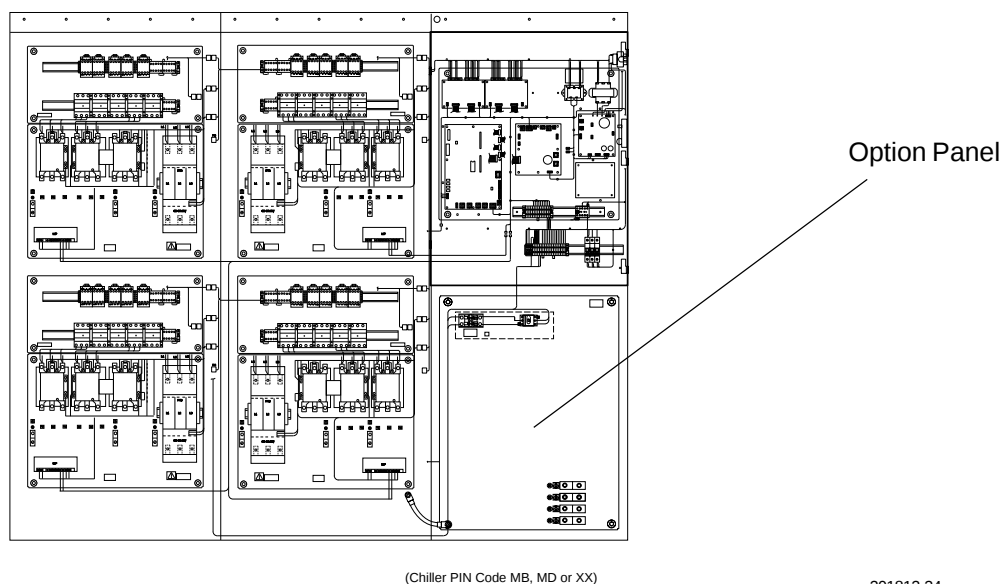
Power panels and option panels are offered in several configurations using three (3) major components:

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; (2) MP terminal blocks in option panel
M	D	Terminal Blocks for each system in power panel; (2) NF disc switch in option panel
M	B	Circuit Breaker switch for each system in power panel; (2) terminal blocks in option panel
D	P	Circuit Breaker switch for each system in power panel; (2) 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

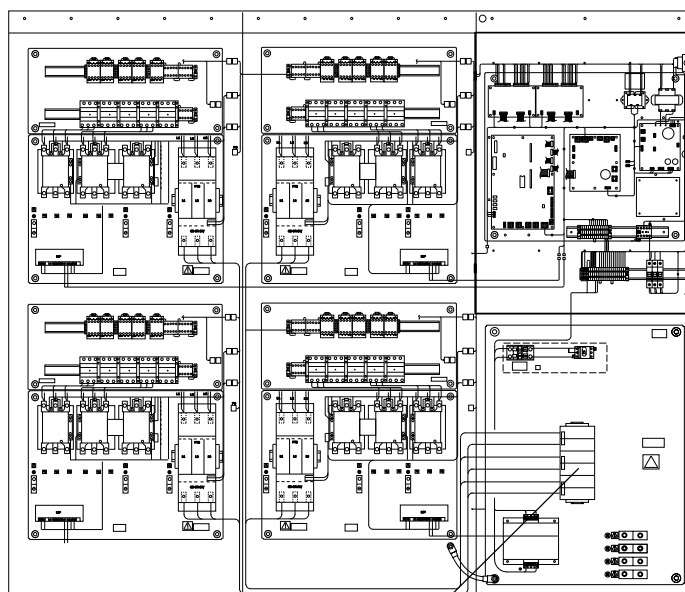
Examples of power wiring configurations:



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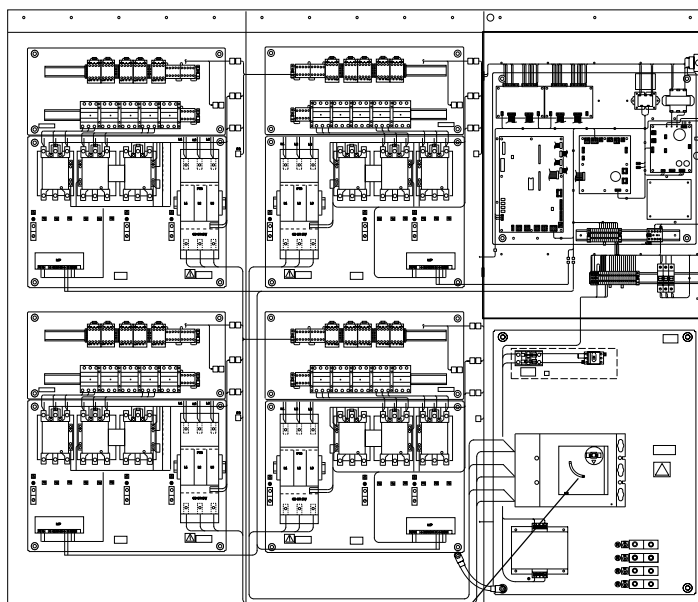
FIG. 26 – OPTION PANEL (4 COMPRESSOR UNITS)

OPTION AND POWER PANEL CONFIGURATIONS - CONT'D



(Chiller PIN Code SB, SS or SX)

Option Panel
Terminal Block



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

Option Panel
Disc/Circuit Breaker

FIG. 27 – OPTION PANEL (4 COMPRESSOR UNITS)

OPTION PANEL IDENTIFIERS

TABLE 23 – OPTION PANEL IDENTIFIERS (TO IDENTIFY REPLACEMENT PART NUMBERS, SELECT PANEL IDENTIFIER NUMBER BELOW, THEN REFER TO HIGHLIGHTED ROW ON TABLE 24, AND FIGS. 28 AND 29 ON PAGES 50 AND 51).

Model	Code	Terminal Block	Qty.	NF Disc. Switch	Qty.
YCAS1063	50	371-02497-111	1	371-02497-141	1
YCAS1093	50	371-02497-111	1	371-02497-141	1
YCAS1163	50	371-02497-111	1	371-02497-141	1
YCAS1263	50	371-02497-111*	1	371-02497-141	1

Note: The table above shows; Dual Point Supply with Separate System Terminal Block or Circuit Breakers, Standard or Low Noise Fans, No Control Transformer.

* Model YCAS1263 with High Static Fans use 371-02496-112.

Model	Code	Terminal Block	Qty.	NF Disc. Switch	Qty.
YCAS1063	50	371-02497-215	1	371-02497-244	1
YCAS1093	50	371-02497-215	1	371-02497-244	1
YCAS1163	50	371-02497-215	1	371-02497-244	1
YCAS1263	50	371-02497-215*	1	371-02497-244	1

Note: The table above shows; Dual Point Supply with Separate System Terminal Block or Circuit Breakers, Standard or Low Noise Fans, **With Control Transformer**.

* Model YCAS1263 with High Static Fans use 371-02496-217.

Model	Code	Terminal Block	Qty.	NF Disc. Switch	Qty.
YCAS1063	50	371-02497-102	1	371-02497-132	1
YCAS1093	50	371-02497-102	1	371-02497-132	1
YCAS1163	50	371-02497-102	1	371-02497-132	1
YCAS1263	50	371-02497-102*	1	371-02497-132	1

Note: The table above shows; Single Point Supply with Separate System Circuit Breakers, Standard or Low Noise Fans, **No Control Transformer**.

* Model YCAS1263 with High Static Fans use 371-02496-103.

Model	Code	Terminal Block	Qty.	NF Disc. Switch	Qty.
YCAS1063	50	371-02497-207	1	371-02497-236	1
YCAS1093	50	371-02497-207	1	371-02497-236	1
YCAS1163	50	371-02497-207	1	371-02497-236	1
YCAS1263	50	371-02497-207*	1	371-02497-236	1

Note: The table above shows; Single Point Supply with Separate System Circuit Breakers, Standard or Low Noise Fans, **With Control Transformer**.

* Model YCAS1263 with High Static Fans use 371-02496-209

OPTION PANEL COMPONENTS

TABLE 24 – OPTIONS PANEL COMPONENTS (SEE FIGS. 28 AND 29, PAGES 50 AND 51)

ITEM	DESCRIPTION	QUANTITY	371-02497-102	371-02497-103	371-02497-111	371-02497-112	371-02497-132	371-02497-141
4A	Terminal Block	6, 9 or 12	025-34405-000	025-34408-000	025-34408-000	025-34405-000	—	—
	NF Disconnect Switch	1	—	—	—	—	024-25241-000	024-25563-000
	Circuit Breaker	—	—	—	—	—	—	—
4B	Handle Kit	1	—	—	—	—	025-34411-000	025-34413-000
4C	Lug Kit	1	—	—	—	—	025-34412-000	025-34414-000
4D	Lug Kits with Power Tap	1	—	—	—	—	024-31655-000	024-34415-000
4E	Insertion Bridge	3	025-34426-000	025-34497-000	025-34422-000	025-34423-000	—	—
1C	Switch, Control Power	1	—	—	—	—	—	—
1D	Shaft, Control Power Sw.	1	—	—	—	—	—	—
1E	Handle, Control Power Sw.	1	—	—	—	—	—	—
2B	Transformer	1	—	—	—	—	—	—
2A	Fuse	2	—	—	—	—	—	—

ITEM	DESCRIPTION	QUANTITY	371-02497-207	371-02497-209	371-02497-215	371-02497-217	371-02497-236	371-02497-244
4A	Terminal Block	3	—	—	—	025-34405-000	025-34408-000	025-34405-000
	NF Disconnect Switch	2	024-31699-000	024-25564-000	024-25563-000	—	—	—
	Circuit Breaker	1	—	—	—	—	—	—
4B	Handle Kit	1	025-34411-000	025-34417-000	025-34413-000	—	—	—
4C	Lug Kit	1	025-34412-000	025-34420-000	025-34414-000	—	—	—
4D	Lug Kits with Power Tap	1	024-31655-000	—	024-34415-000	—	—	—
4E	Insertion Bridge	3	—	—	—	025-34423-000	025-34497-000	025-34426-000
1C	Switch, Control Power	1	—	—	—	024-31833-000	024-31833-000	024-31833-000
1D	Shaft, Control Power Sw.	1	—	—	—	024-31633-000	024-31633-000	024-31633-000
1E	Handle, Control Power Sw.	—	—	—	—	024-31832-000	024-31832-000	024-31832-000
2B	Transformer	1	—	—	—	025-35662-000	025-35661-000	025-35660-000
2A	Fuse	2	—	—	—	025-34435-000	025-35608-000	025-34428-000

NOTE: Hi-lighted numbers refer to TABLE 23 - Option Panel Identifiers on Page 48.

OPTION PANEL COMPONENTS - CONT'D

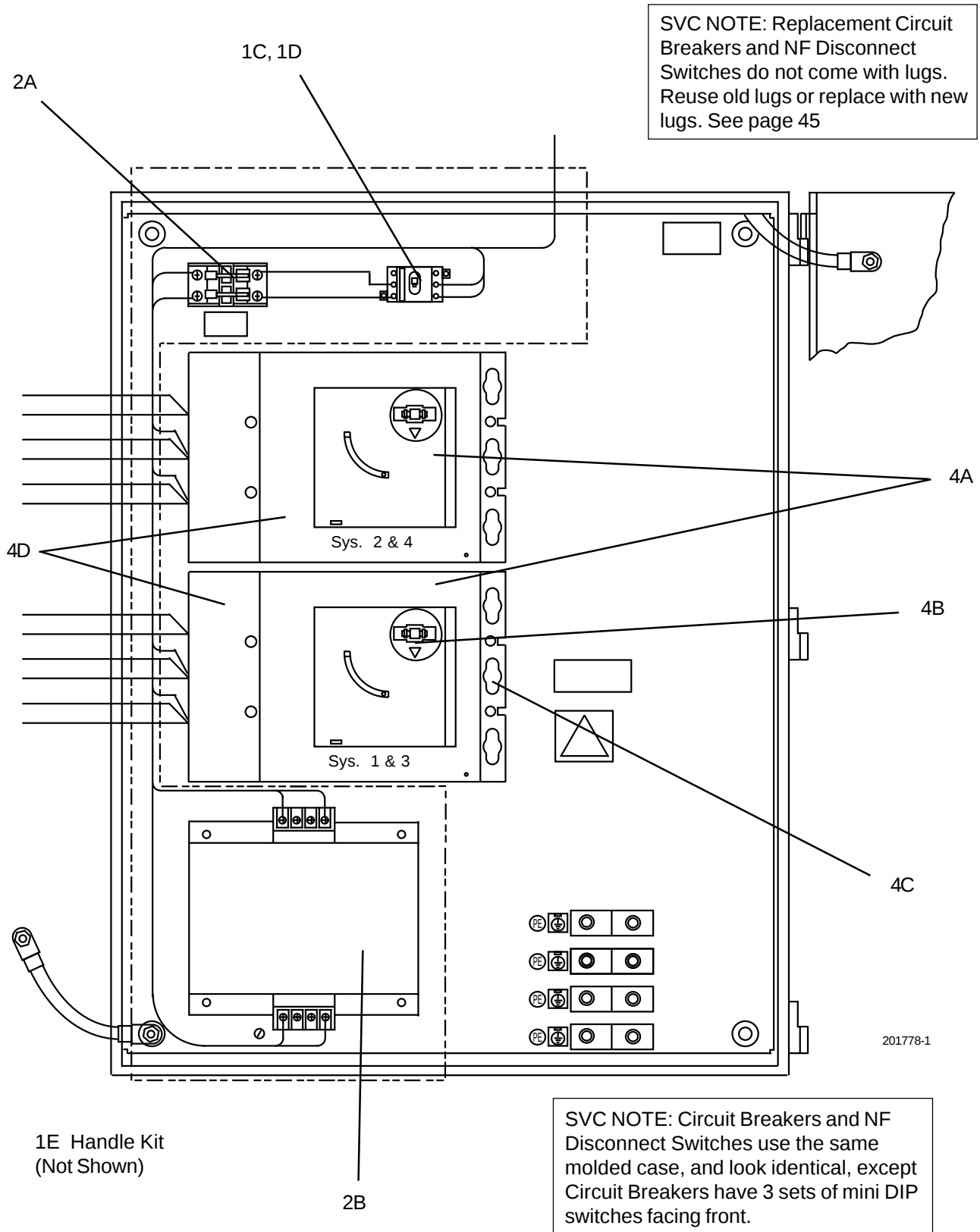


FIG. 28 – OPTION PANEL SHOWN WITH CIRCUIT BREAKER OR NON-FUSED DISCONNECT SWITCH (REF. TABLE 24, PAGE 49)

OPTION PANEL COMPONENTS - CONT'D

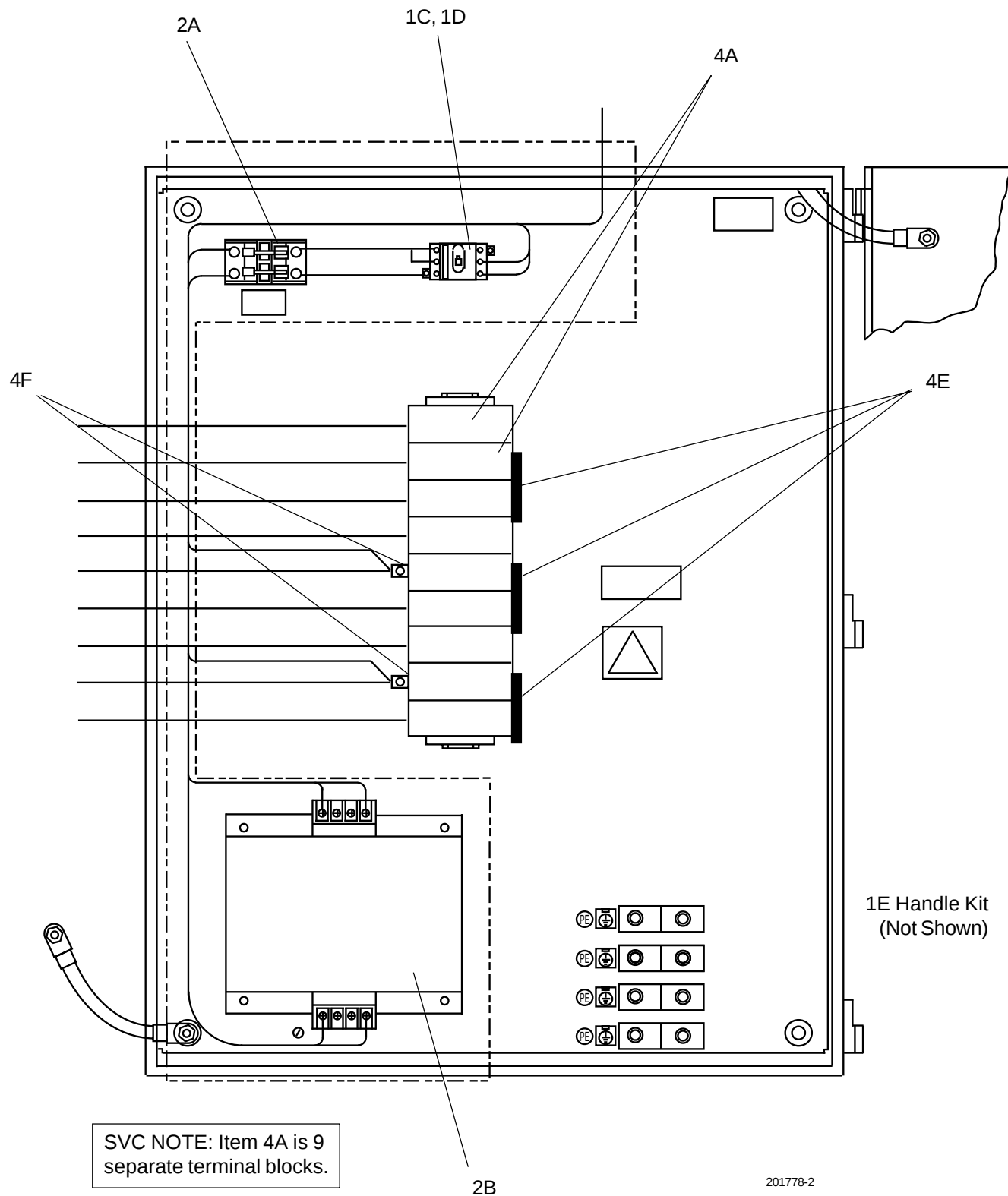


FIG. 29 – OPTION PANEL SHOWN WITH POWER TERMINAL BLOCK
(REF. TABLE 24, PAGE 49)

TABLE 25 – 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 KITS	REMOTE CONTROL PANEL 60Hz
MODEL NO.	029-23200	029-23200	029-23200	029-23200	029-23200	029-23200	375-	375-	375-	375-	371-02492	371-02485
1063	-108	-204	-004	-119	-219	-007	31596-000	31600-000	31604-000	31608-000	-101 & -102	-105
1093	-109	-208	-005	-120	-220	-008	31598-000	31602-000	31606-000	31610-000	-101 & -102	-105
1163	-104	-204	-002	-105	-221	-002	31597-000	31601-000	31605-000	31609-000	-101 & -102	-105
1263	-110	-204	-002	-105	-221	-002	31597-000	31601-000	31605-000	31609-000	-101 & -102	-105

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

ENCLOSURE KIT OPTIONS

TABLE 26 – 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
1063	375-31596-000	375-31600-000	375-31604-000	375-31608-000
1093	375-31598-000	375-31602-000	375-31606-000	375-31610-000
1163	375-31597-000	375-31601-000	375-31605-000	375-31609-000
1263	375-31597-000	375-31601-000	375-31605-000	375-31609-000

* For Enclosure Kit separate parts breakdown see Tables 27 and 28.

TABLE 27 – WIRE ENCLOSURE

KIT COMPONENTS			
REF. NUMBER	QUANTITY	DESCRIPTION	PART NUMBER
1	4	Z CHANNEL	075-29588-000
2	12*	Z CHANNEL DXST	075-29589-000
3	1	SUPPORT REAR	075-29590-000
4	2	PANEL VANITY RH	075-29591-000
5	2	PANEL VANITY LH	075-29592-000
6	16**	WIRE GRILL COND DXST	026-36533-000
7	16**	WIRE GRILL BTM DXST	026-36534-000
8	2	WIRE GRILL BTM REAR DXST	026-36535-000

* Quantity of 16 required for YCAS0400 AND YCAS0440

** Quantity of 18 required for YCAS0400 AND YCAS0440

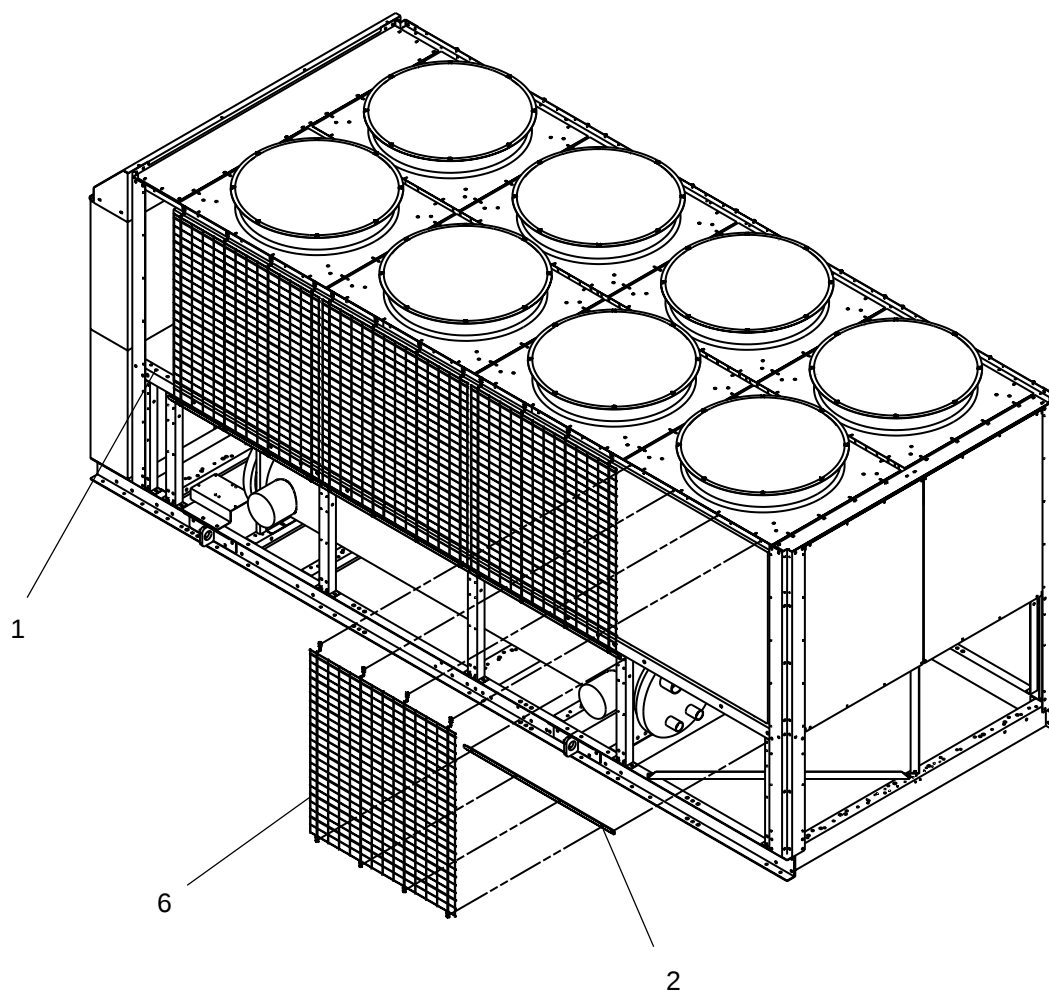
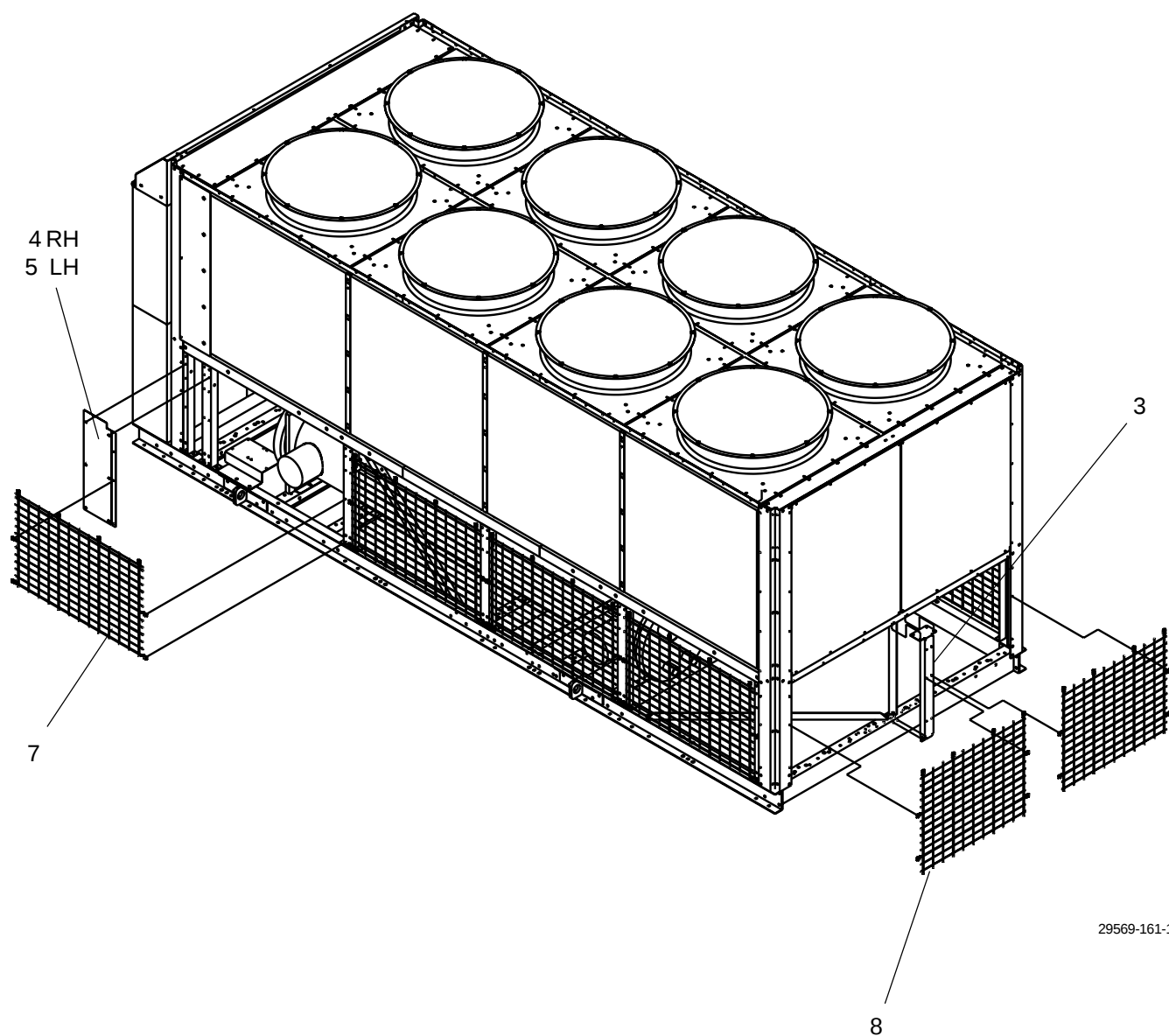


FIG. 29 – WIRE ENCLOSURE - 16'-0" KIT IS SHOWN.

WIRE ENCLOSURE PARTS BREAKDOWN - CONT'D

**FIG. 30** – WIRE ENCLOSURE - CONT'D - 16'-0" KIT IS SHOWN.

LOUVERED ENCLOSURE PARTS BREAKDOWN

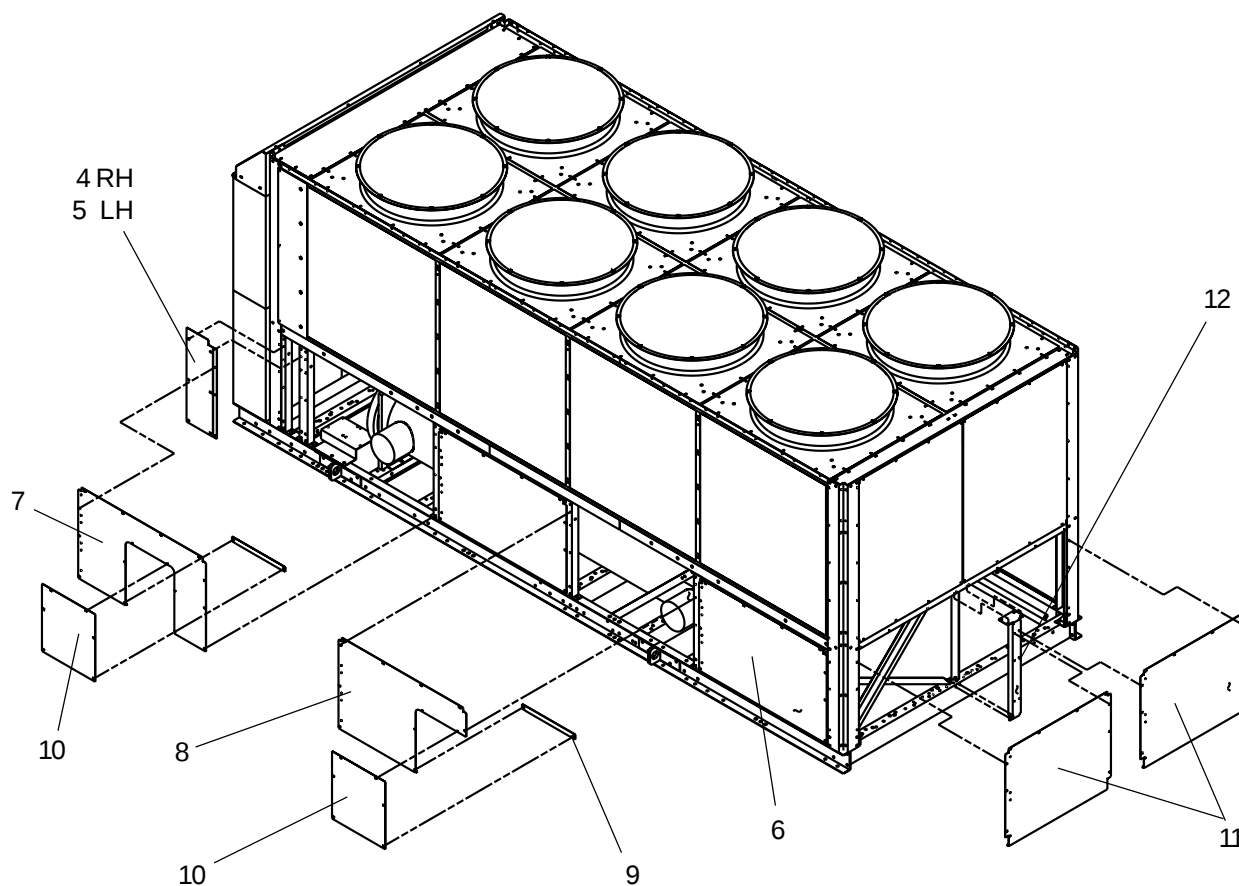
TABLE 28 – LOUVERED ENCLOSURE PARTS BREAKDOWN

KIT COMPONENTS			
REF. NUMBER	QUANTITY	DESCRIPTION	PART NUMBER
1	16*	PANEL LOUVER, TOP	075-29580-000
2	4	Z CHANNEL	075-29588-000
3	12***	Z CHANNEL DXST	075-29589-000
4	2	PANEL VANITY RH	075-29591-000
5	2	PANEL VANITY LH	075-29592-000
6	16**	PANEL LOUVER, LOWER	075-29581-000
7	1	PANEL LOUVER, BOTTOM	075-31617-000
8	1	PANEL LOUVER, BOTTOM	075-31622-000
9	2	ANGLE SUPPORT	075-29587-000
10	2	COVER PLATE	075-31619-000
11	2	PANEL LOUVER	075-29585-000
12	1	REAR SUPPORT	075-29590-000

* Quantity is 18 for the YCAS0400 AND YCAS0440

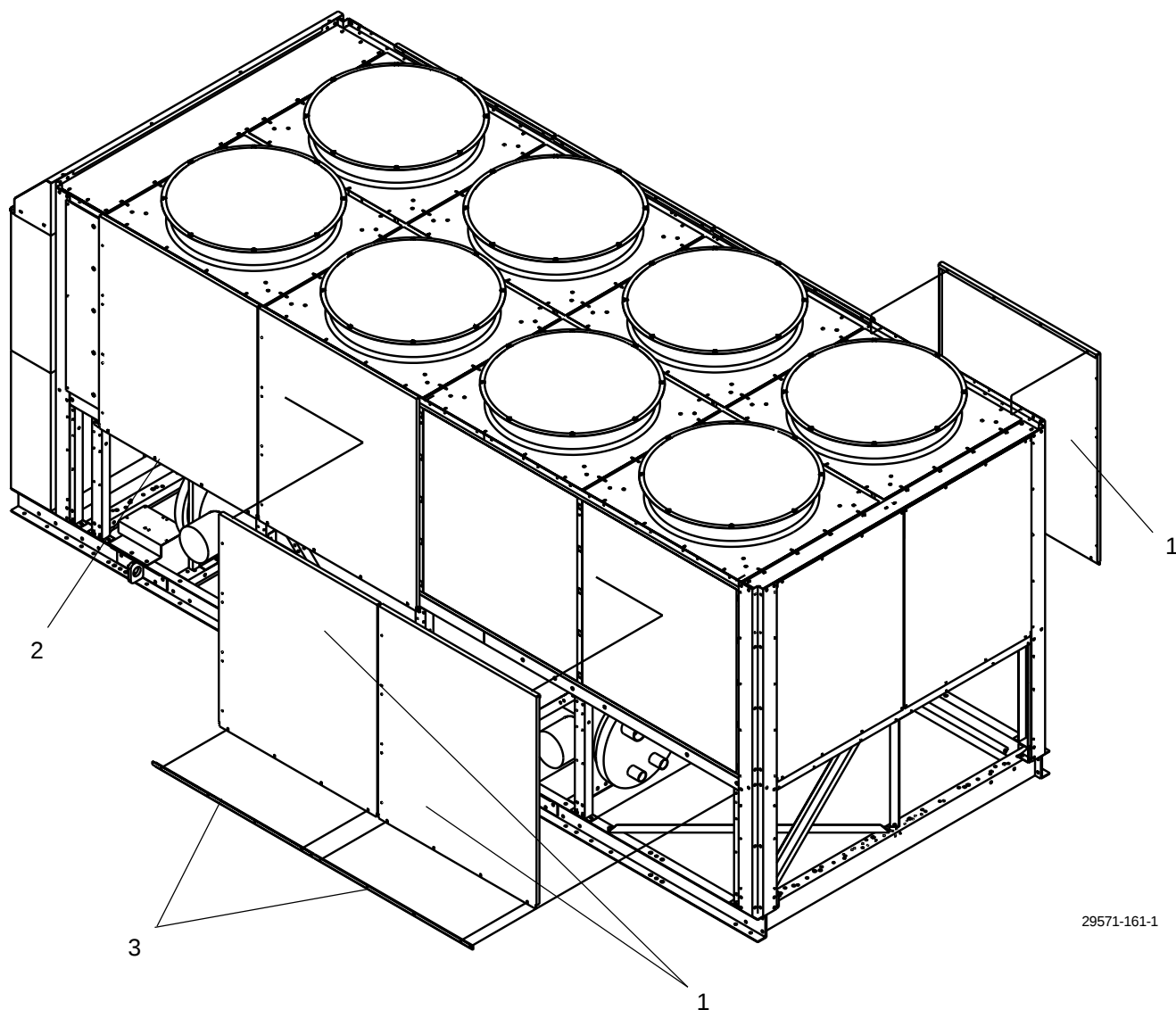
** Quantity is 14 for the YCAS0400 AND YCAS0440

*** Quantity is 14 for the YCAS0400 AND YCAS0440


FIG. 31 – LOUVERED ENCLOSURE - 16'-0" KIT IS SHOWN.

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LOUVERED ENCLOSURE PARTS BREAKDOWN - CONT'D

**FIG. 32** – LOUVERED ENCLOSURE - CONT'D - 16'-0" KIT IS SHOWN.

REMOTE CURRENT/TEMPERATURE RESET WIRING

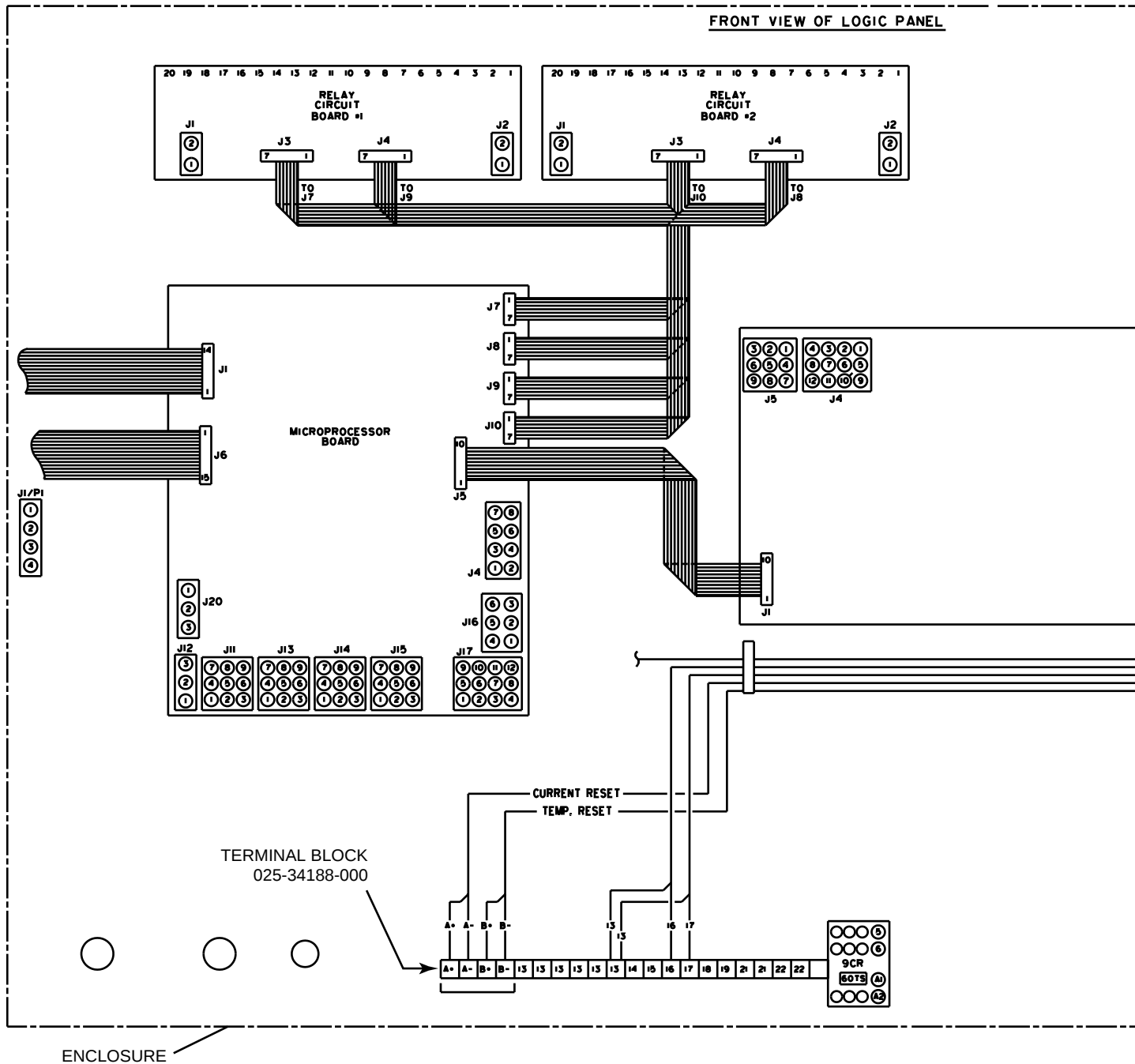


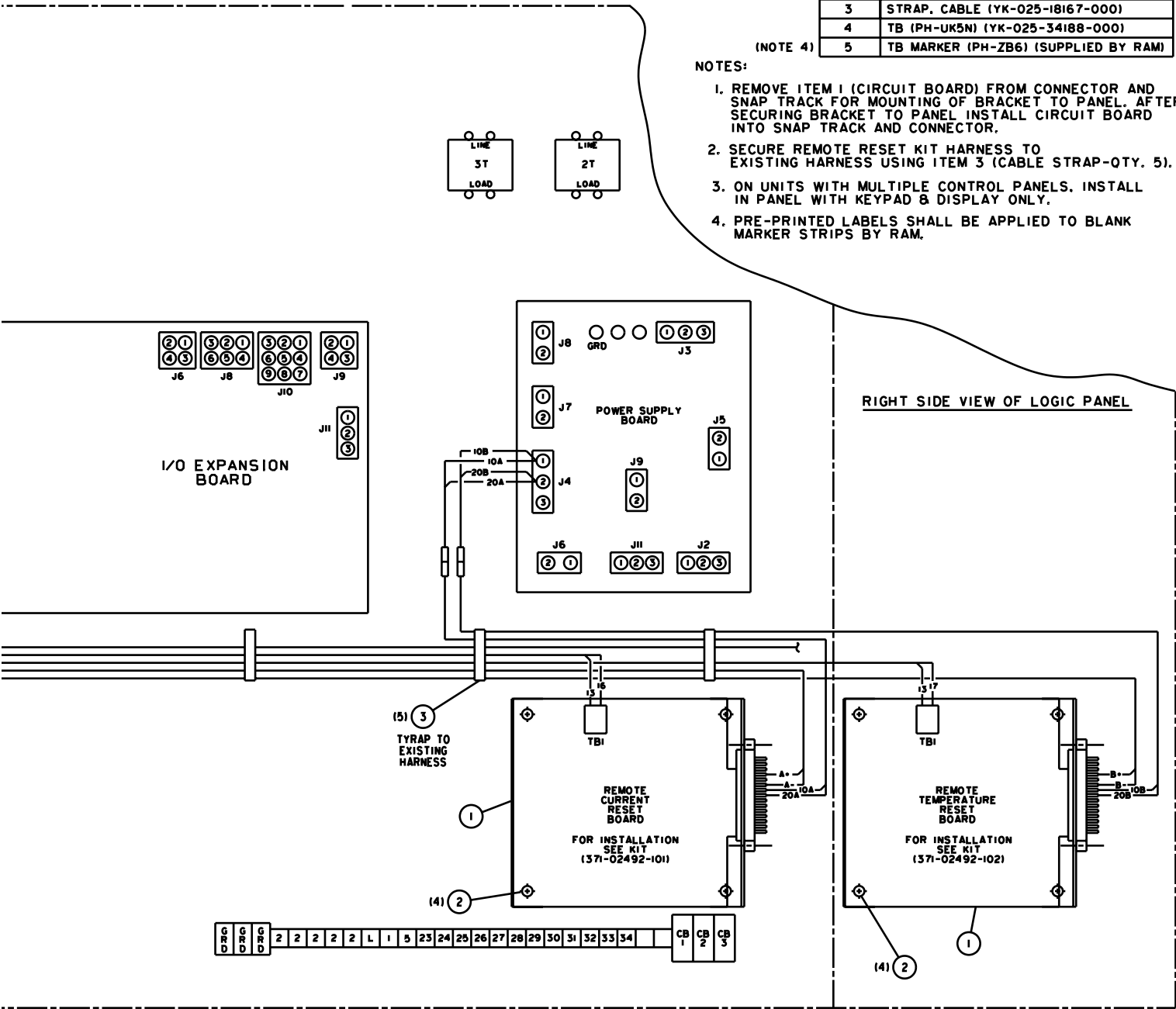
FIG. 33 – REMOTE CURRENT/TEMPERATURE RESET WIRING KIT

REMOTE CURRENT/TEMPERATURE RESET WIRING

Chiller Options

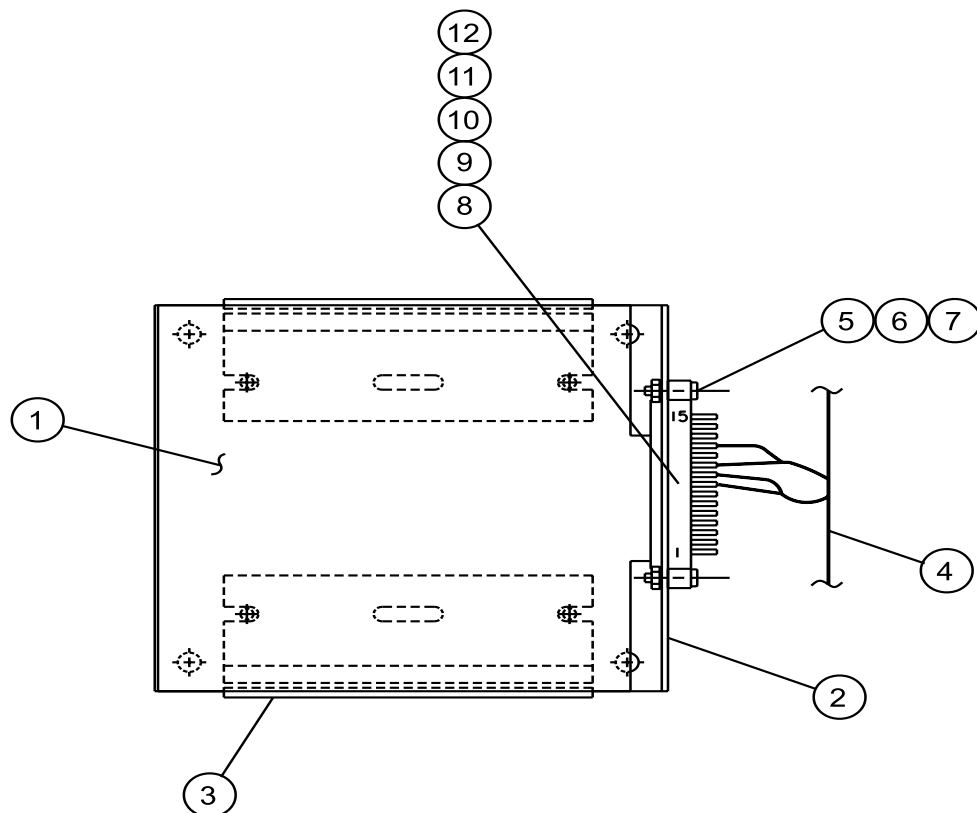
ITEM	DESCRIPTION
1	CONTROL
2	SCREW, PAN HD. #10 X 1/2
3	STRAP, CABLE (YK-025-18167-000)
4	TB (PH-UK5N) (YK-025-34188-000)
5	TB MARKER (PH-ZB6) (SUPPLIED BY RAM)

- (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



LD05256

FIG. 34 – REMOTE CURRENT/TEMPERATURE RESET COMPONENTS**TABLE 29** – REMOTE CURRENT OR TEMPERATURE RESET KIT NUMBER 371-02492-102

REF. NUMBER	QTY	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 30****TABLE 30** – 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

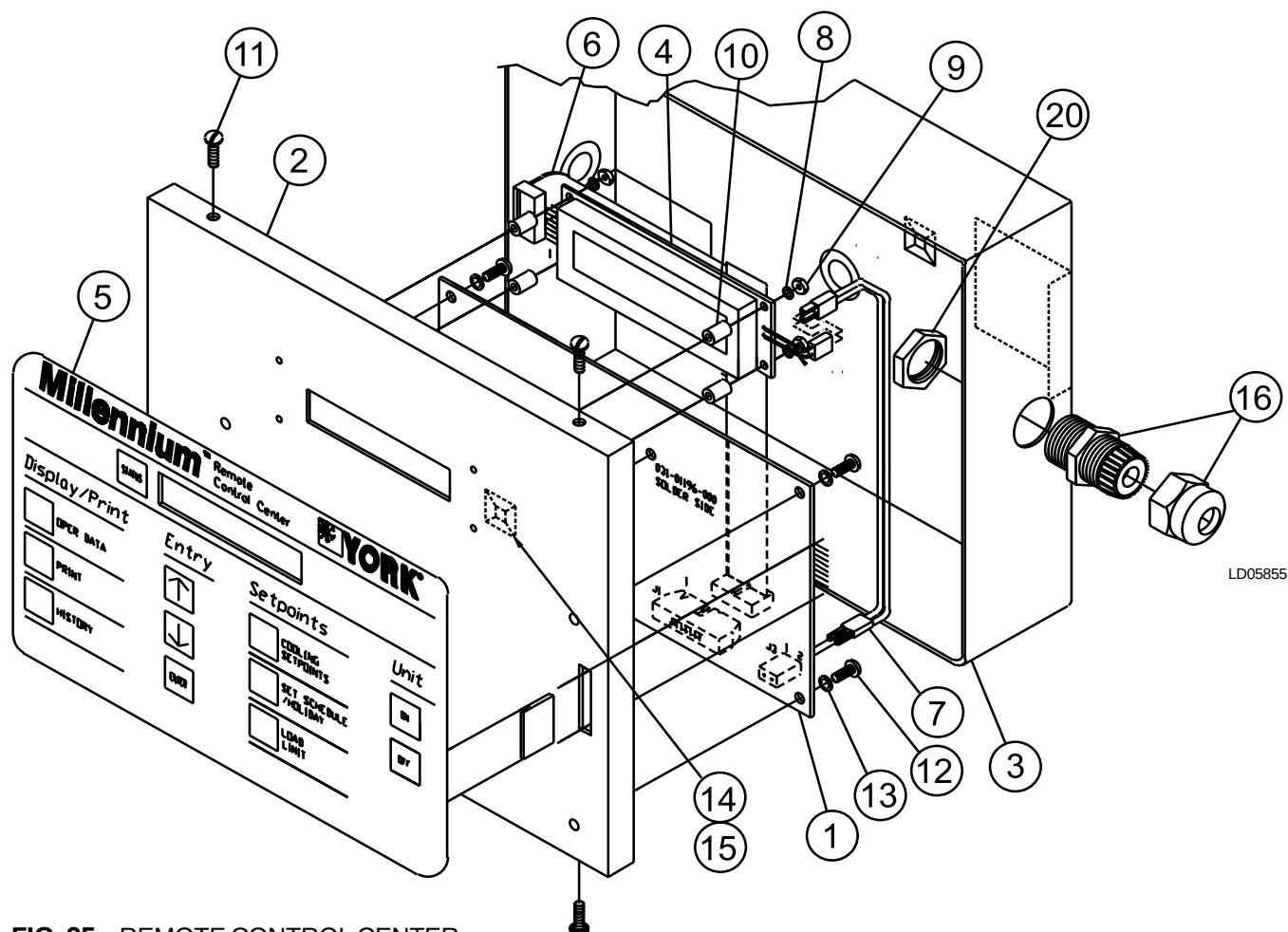


FIG. 35 – REMOTE CONTROL CENTER

TABLE 31 – RCC 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-3232	025-31372-000
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

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

TABLE 32 – RECOMMENDED 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 8 and 9, Item 1	Fan Motor	See Table 4 and 5
Page 8 and 9, Item 2	Fan Blade	See Table 4 and 5
Page 10, Item 1	Valve, Thermal Expansion (Cooler)	See Table 6
Page 10, Item 2	Valve, Thermal Expansion (Econom.)	See Table 6
Page 10, Item 5	Core, Dehydrator	026-18328-000
Page 10, Item 15	Coil, Solenoid	See Table 6
Page 19, Item 50	Oil filter cartridge	026-35601-000
Page 19, Item 69	O-ring for above filter	028-13849-000
Page 19, Item Oil	York Type L oil, POE, 5 gal.+	011-00592-000
Page 25, Item 40	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 34, Item 1	Sensor, Outside Air Temp.	025-28663-001
Page 34, Item 2	Sensor, Water Temp. (All)	025-29964-000
Page 34, Item 3	Sensor, Oil Temp.	025-30440-000
Page 34, Item 4	Sensor, Discharge Temp.	025-32924-000
Page 34, Item 5	Sensor, Suction Temp.	025-28935-000
Page 34, Item 6	HP Cut-out (USA Std.)	025-30480-000
Page 34, Item 7	Transducer, Suction 0-200 PSI	025-29583-000
Page 34, Item 8	Transducer, Discharge 0-400 PSI	025-29139-001

+ 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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YORK Applied Systems field office listing subject to change.

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

