



MILLENNIUM®
AIR-COOLED SCREW CHILLER
STYLE "F"

RENEWAL PARTS LIST

New Release

Form 201.18-RP12 (202)

MODELS YCAS1065, YCAS1135 AND YCAS1215



28971AR



ALLY

50 HERTZ
R-407C
OPTIMIZED



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

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15
BASE PRODUCT TYPE				NOMINAL CAPACITY				UNIT DESIGNATOR	REFRIGERANT	VOLTAGE/STARTER			DESIGN/DEVELOPMENT LEVEL	
Y				#	#	#	#	S	B	5	0	Y	F	A
: YORK				Tons				Standard Unit	:R-407C	:380/415-3-50			:Design Series F	
C				1065				High Efficiency		:Wye (Star) Delta			:Engineering	
A				1135				Extended Range		X			Change	
: Air Cooled				1215				High Static					or PIN Level	
S: Screw														

16 17 18 19

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

Wiring	Option	Terminal
X	: No Option	#
Y	: BAS/EMS Temp Reset / Offset	T
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 3536 37

COMPRESSOR / PIPING FIELD

t

#T

S

C

D

L

B

X

X

X

X

(E.T.L.)

X

B

C

D

E

F

G

H

trans.

38 39 40 41 42 43 44

EVAP. FIELD

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

45 46 47
CONDENSER FIELD

48 49 50 51 52 53 54
CABINET FIELD

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

NOTES:

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

EVAPORATOR COMPONENTS

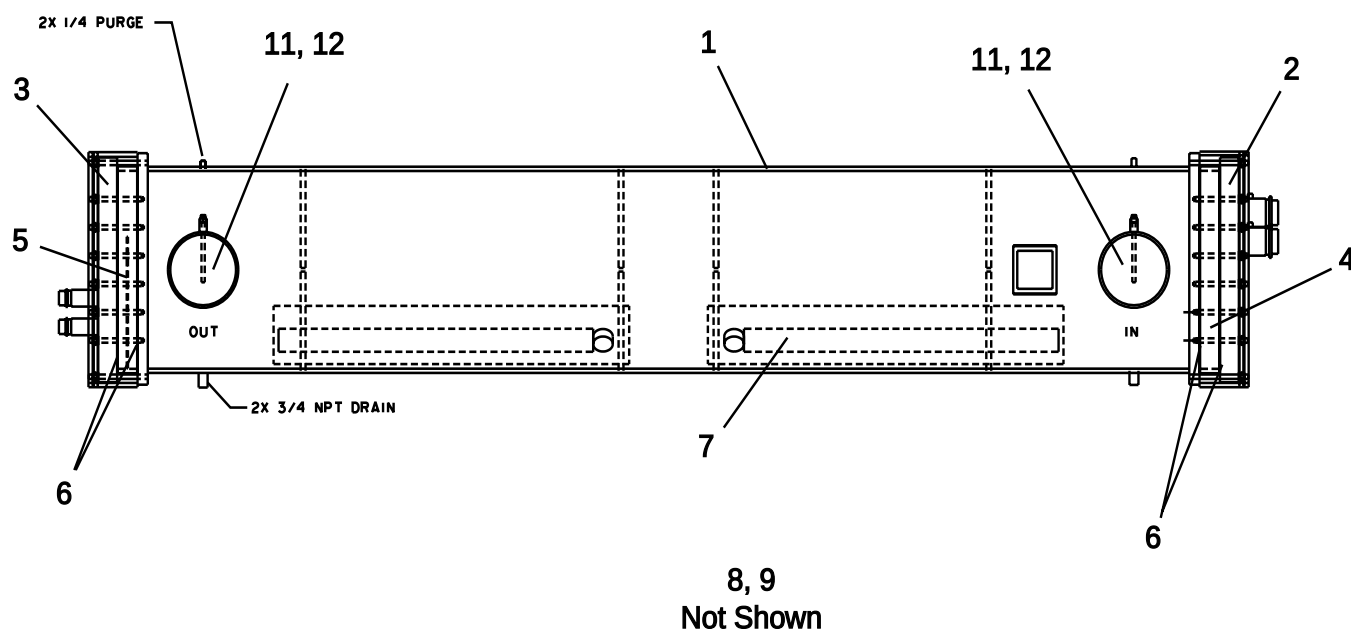


FIG. 1 – EVAPORATOR COMPONENTS

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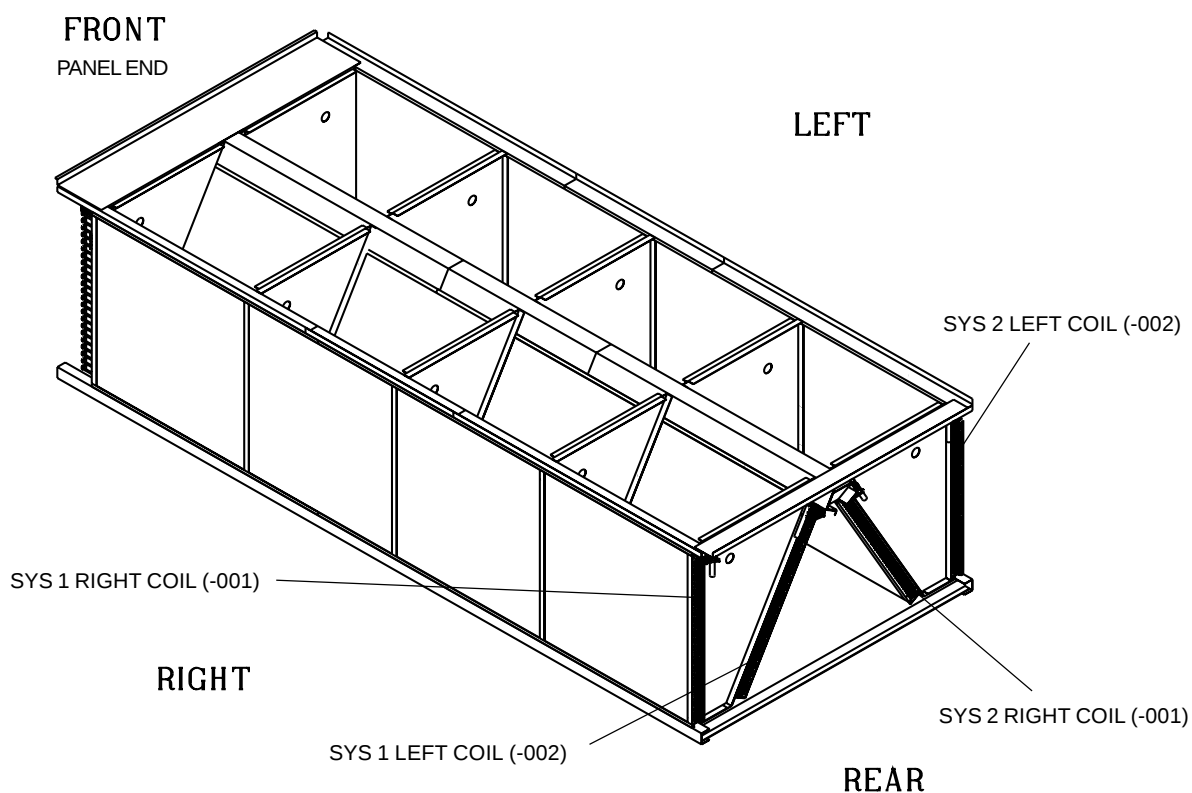
- 150# COOLER FLOW SWITCH 024-26116-000 (PIN 38 in Model No. is X; see page 4)
- 300# COOLER FLOW SWITCH 024-12144-000 (PIN 38 in Model No. is 3; see page 4)

TABLE 1 – EVAPORATOR COMPONENTS

ITEM NUMBER	QTY. PER UNIT	DESCRIPTION	DWP	UNIT MODEL YCAS1065 THRU YCAS1215
1	1	Cooler, less Heater & Insulation (Items 2 thru 6)	150	375-45154-900
			300	375-35151-900
2	1	Head, Connection End	ALL	375-35158-900
3	1	Head, Back End	ALL	375-35156-900
4	1	Baffle, Pass, Conn. End	ALL	375-35162-900
5	1	Baffle, Pass, Back End	ALL	075-35153-900
6 ^s	8	Gasket, Pass Baffle and Head	ALL	075-35163-900
7 ^s	2	Heater, Cooler 280 Watt	ALL	025-22691-000
8	5.5	Insulation (3/4" x 49" x 65")	ALL	010-05997-000
9	4.5	Insulation (1 1/2" x 49" x 65")	ALL	010-05998-000
10	2	Connector, 10" Water	ALL	375-35160-900

^s = Recommended Spare Parts

CONDENSER COIL COMPONENTS



29500-1

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 – YCAS1065, YCAS1135 AND YCAS1215

DESCRIPTION	COIL LOCATION (LEFT OR RIGHT)	UNIT MODEL	
		YCAS1065, YCAS1135 & YCAS1215	
		FRONT (16'-0")	REAR (16'-0")
COILS, CONDENSER, ALUMINUM	Right	375-29501-001	375-29501-001
	Left	375-29501-002	375-29501-002
COILS, CONDENSER, BLACKFIN	Right	375-23770-001	375-29770-001
	Left	375-23770-002	375-29770-002
COILS, CONDENSER, PHENOLIC	Right	375-29010-001	375-29010-001
	Left	375-29010-002	375-29010-002
COILS, CONDENSER, COPPER	Right	375-23776-001	375-23776-001
	Left	375-23776-002	375-23776-002

NOTES: Coil Assemblies are complete with headers.

FAN COMPONENTS

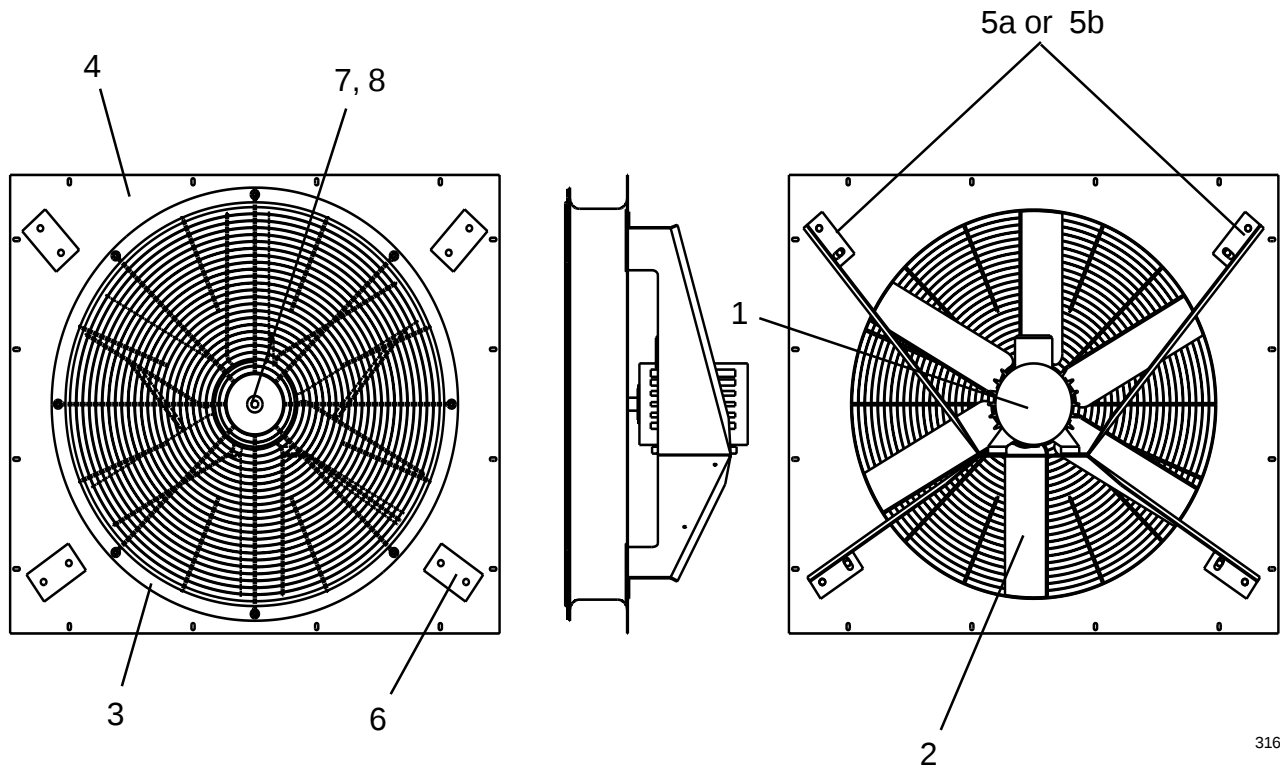


FIG. 3 – FAN COMPONENTS

SERVICE NOTE: Pin Location 52 in Model Number will be “X” for Standard Fan, or “H” for High Static. See page 4.

TABLE 3 – FAN COMPONENTS (STANDARD)

ITEM NUMBER	DESCRIPTION	VOLTAGE CODE	STANDARD FAN TYPE	HIGH STATIC FAN TYPE
			7/8" Ø SHAFT, 1160 RPM	1 3/8" Ø SHAFT, 1150 RPM
1S	Motor Standard:3HP, 50LBS High Static:5HP, 127LBS	-50	024-25179-001	024-24604-001
			024-25179-001	024-24604-001
			024-25179-001	024-24604-001
2S	Blade	All	026-37596-000 21°	026-37598-000 30°
3	Guard	All	026-35605-001	026-35605-001
4	Orifice	All	026-36141-000	026-36141-000
5A	Support, Upper RH	All	075-31612-000	075-31615-000
5B	Support, Upper LH	All	075-31611-000	075-31614-000
6	Support, Motor, Lower	All	075-31613-000	075-31616-000
7	Spacer, Fan Motor	All	075-29007-000	075-29007-001
8	Screw, Cap	All	021-17791-000	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

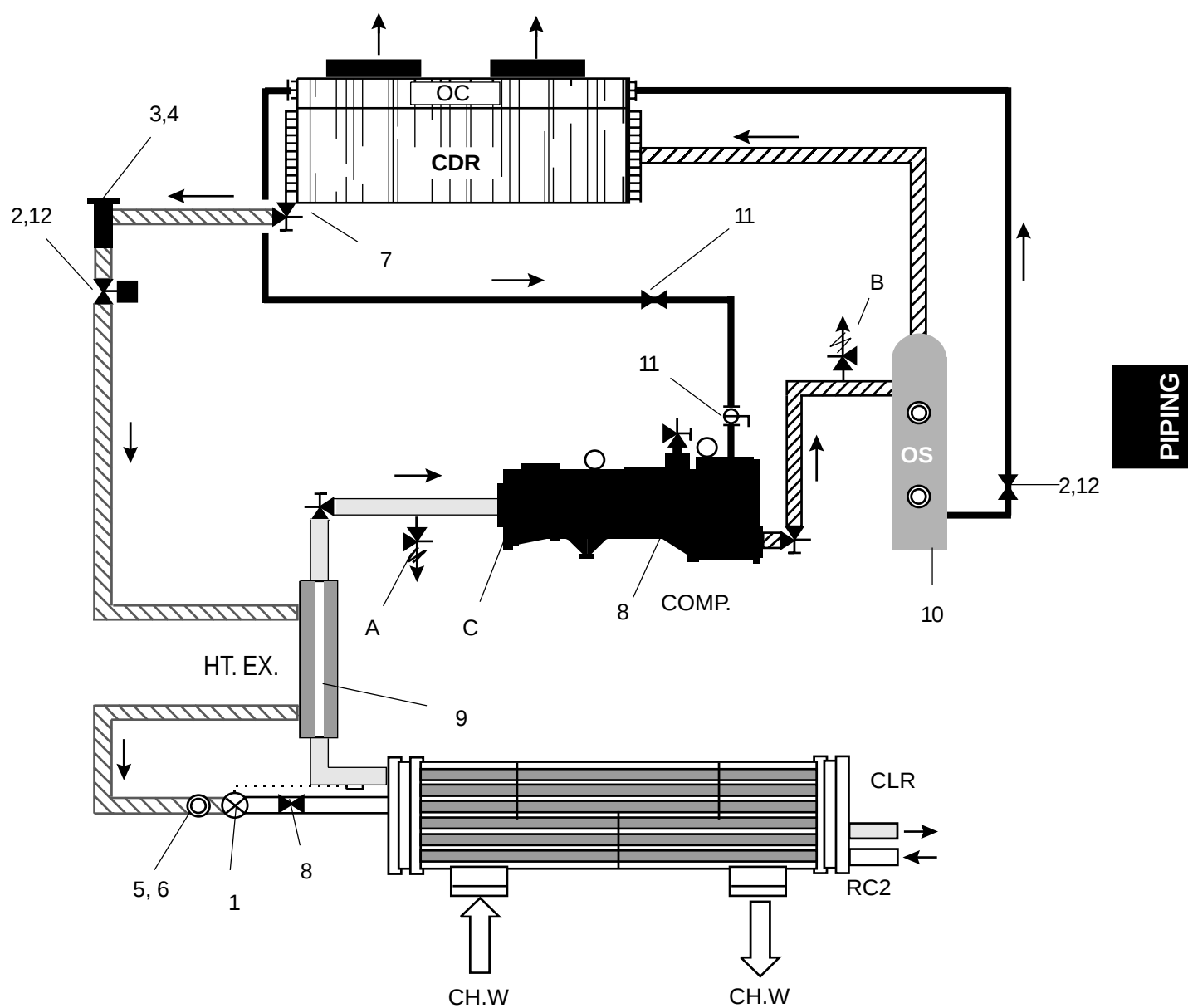
TABLE 4 – REFRIGERANT PIPING AND OIL PIPING COMPONENTS
(SEE FIGS. 4, 5 AND 6, PAGES 9, 10 AND 11)

ITEM NO.	QTY PER UNIT	DESCRIPTION	SYSTEM	YCAS1065	YCAS1135	YCAS1215
1 ^s	2	Valve, Thermal Exp.- Cooler	1 & 2	025-34560-010	025-34559-010	025-34559-010
	2		3 & 4	025-34560-010	025-34560-010	025-34559-010
2 ^s	4	Valve, Solenoid, Liq. Line	All	025-33704	025-33704	025-33704
3	4	Dehydrator, Body (Replaceable Core)	All	026-21055	026-21055	026-21055
4 ^s	8	Dehydrator Core	All	026-37540	026-37540	026-37540
5	4	Moisture Indicator, Body	All	026-37545	026-37545	026-37545
6	4	Moisture Indicator, Sight Glass Cap Assembly	All	026-37547	026-37547	026-37547
7	4	Valve, Liquid Stop	All	022-09778	022-09778	022-09778
8	8	Valve, Charging 3/8"	All	All Models – 022-09754-000		
9	4	Heat Exchanger	All	026-36597	026-36597	026-36597
10	2 per circuit*	Oil Separator	Right Side Left Side	All Models - Right Side: 075-23738-002 All Models - Left Side: 075-23738-001		
11	4	Valve, Ball, Oil Line	All	022-09172	022-09172	022-09172
12 ^s	4	Coil, Solenoid Fits Item 2	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



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

} SEE TABLE 5, PAGE 12 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 8)

PIPING

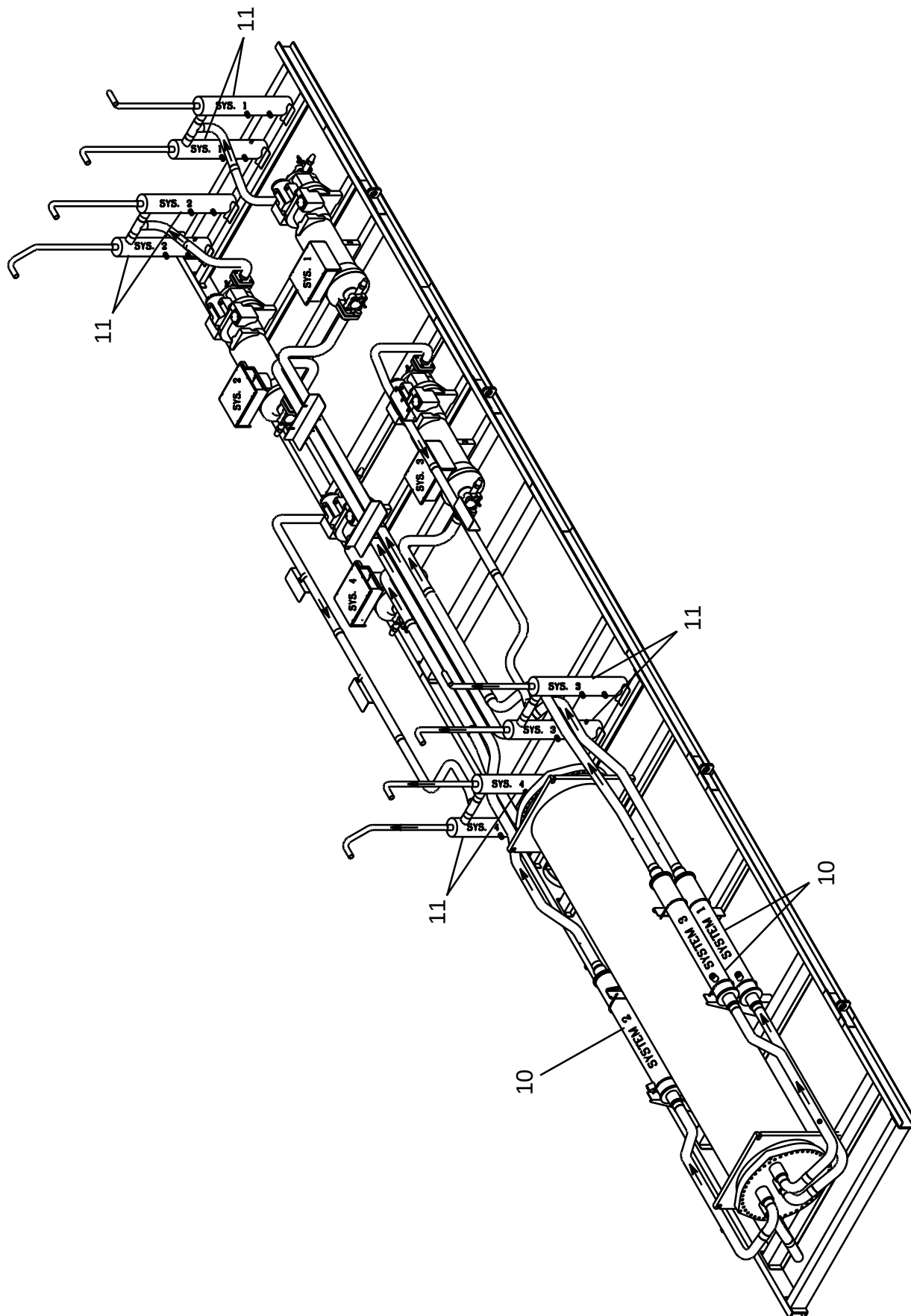


FIG. 5 – REFRIGERANT AND OIL PIPING COMPONENTS (REF. TABLE 4, PAGE 8)

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

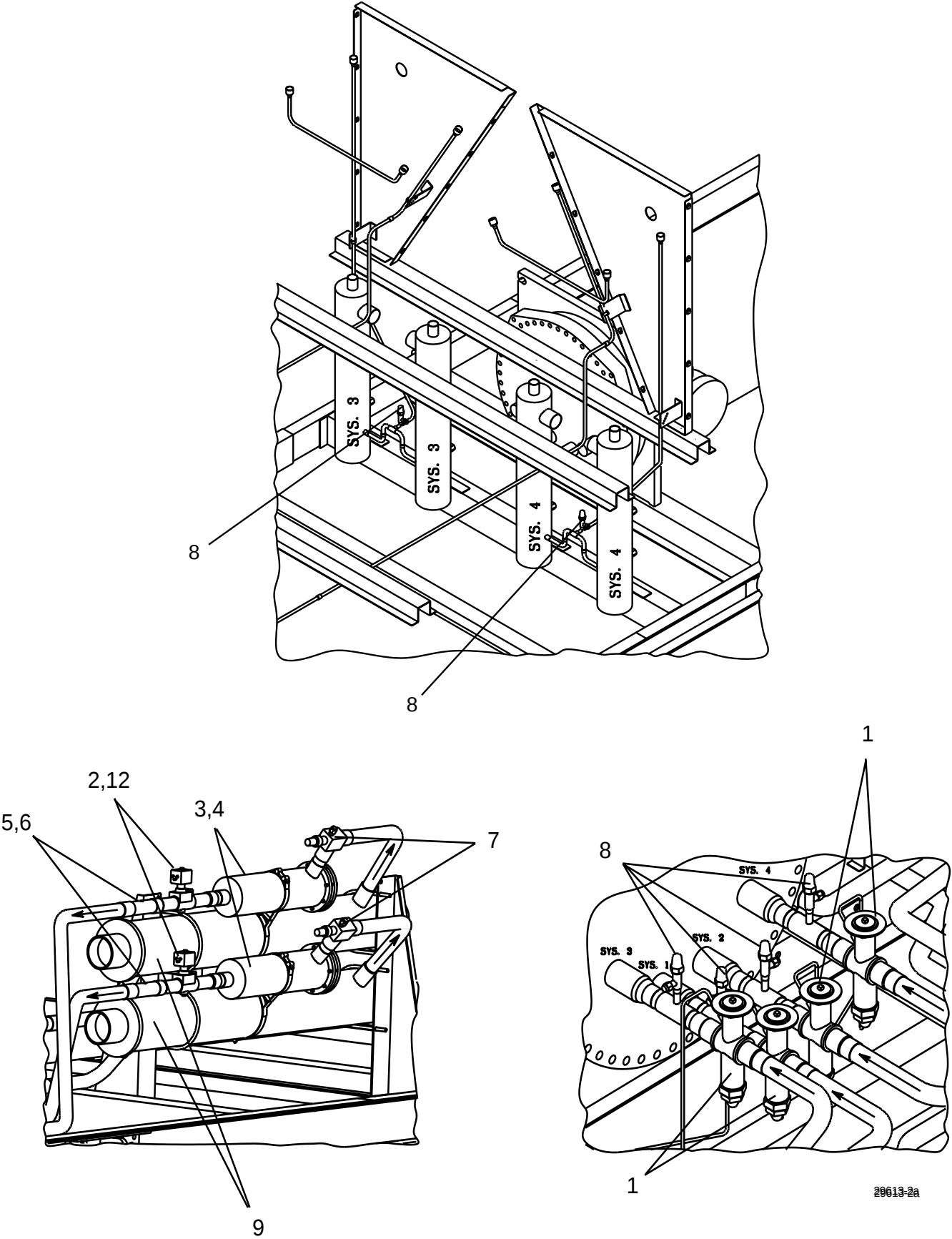
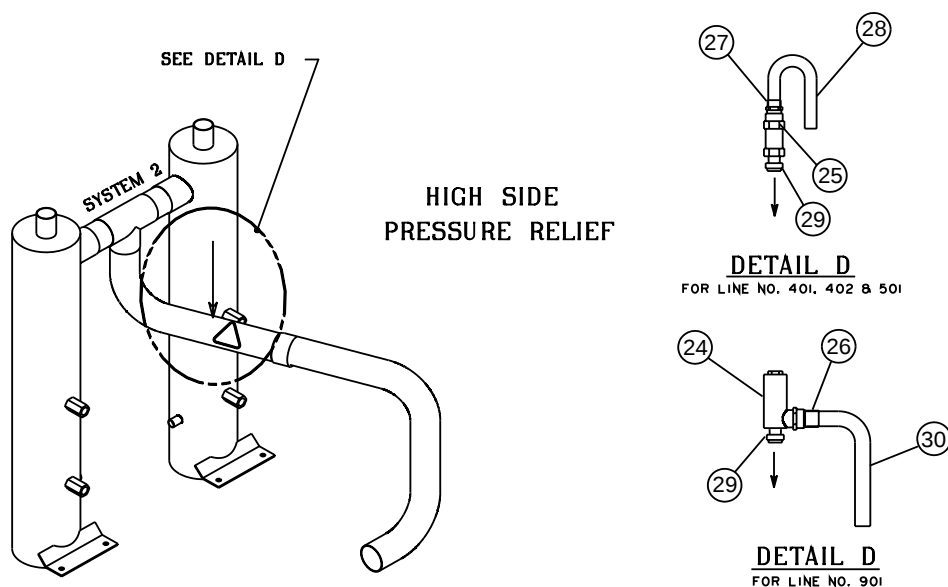


FIG. 6 – REFRIGERANT AND OIL PIPING COMPONENTS (REF. TABLE 4, PAGE 8)

RELIEF VALVES AND HP CUTOUT SWITCH



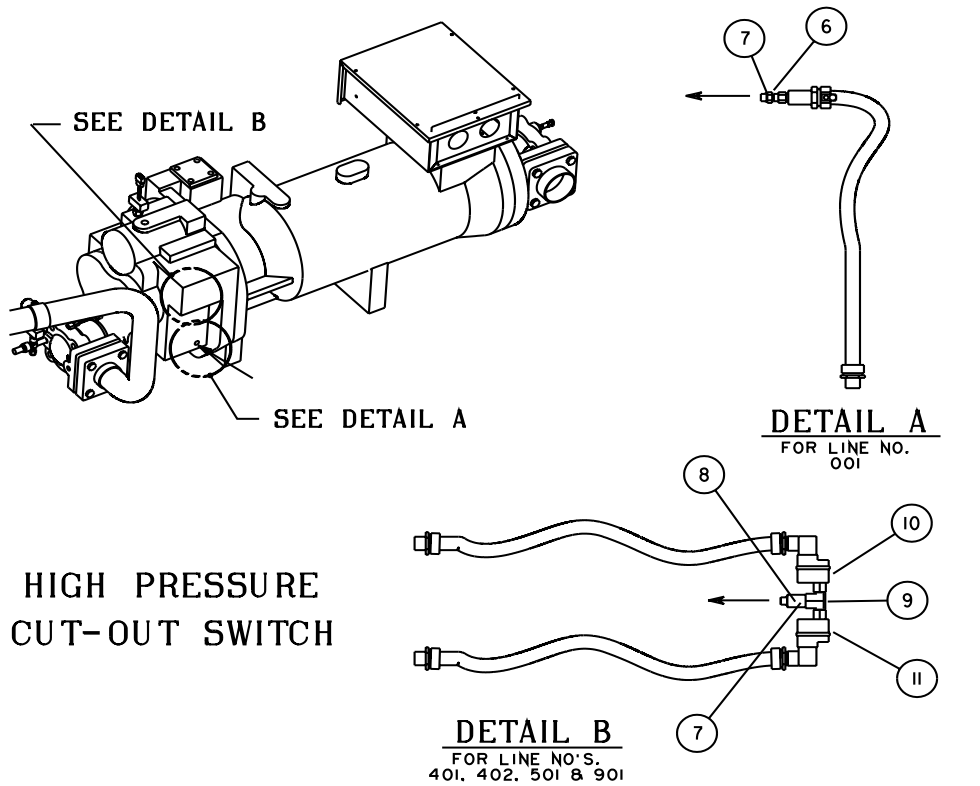
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FIG. 7 – RELIEF VALVES AND HP CUTOUT SWITCH (REF. TABLE 5, PAGE 12)

TABLE 5 – RELIEF VALVES AND HP CUTOUT SWITCH
(SEE FIG. 7 AND 8, PAGES 12 AND 13)

ITEM	QUANTITY /CHILLER	DESCRIPTION	APPLICATION	ALL MODELS
1	4	Low Side Relief Valve, 405 PSIG	-901	022-08863-000
	4	Low Side Relief Valve	-001 & -401	022-10045-000
	4	Low Side Relief Valve	-501	022-09803-000
2	4	Tube for 022-08863-000	-901	075-30993-000
	4	Tube for 022-10045-000	-001 & -401	375-30919-000
	4	Tube for 022-09803-000	-501	075-31211-000
3	4	Adapter for 022-09803-000	-501	023-00124-000
4	4	Valve, Stop	-501	022-09802-000
5	4	Adapter for 022-08863-000	-901	075-31211-000
6	4	Adapter	-001	023-18087-000
7	4	O-Ring, 3-904	All	028-13540-000
8	4	Adapter	-401, -501 & -901	023-18092-000
9	4	Tee for 10/11	All	023-00972-000
10	4	HP Sw, Man Reset 27.9 Bar	All	025-34119-000
11	4	HP Sw, Man Reset 27.2 Bar	All	025-34120-000
24	4	High Side Relief Valve, Angle V 31 Bar	-901	022-09754-000
25	4	High Side Relief Valve, 405 PSIG	-401 & -501	022-08863-000
26	4	Adapter	-901	023-00094-000
27	4	Adapter	-401 & -501	023-00124-000
28	4	Tube	-901	075-30992-000
29	4	Button, Brass	All	075-28519-000
30	4	Tube	-401 & -501	075-30993-000

RELIEF VALVES AND HP CUTOUT SWITCH - CONT'D



LINE NUMBER APPLICATIONS		
LINE NUMBER	APPLICATION	P.I.N. POS.42
-001	ASME	A
-401	FRENCH	F
-501	ITALIAN	I
-901	GERMAN	T

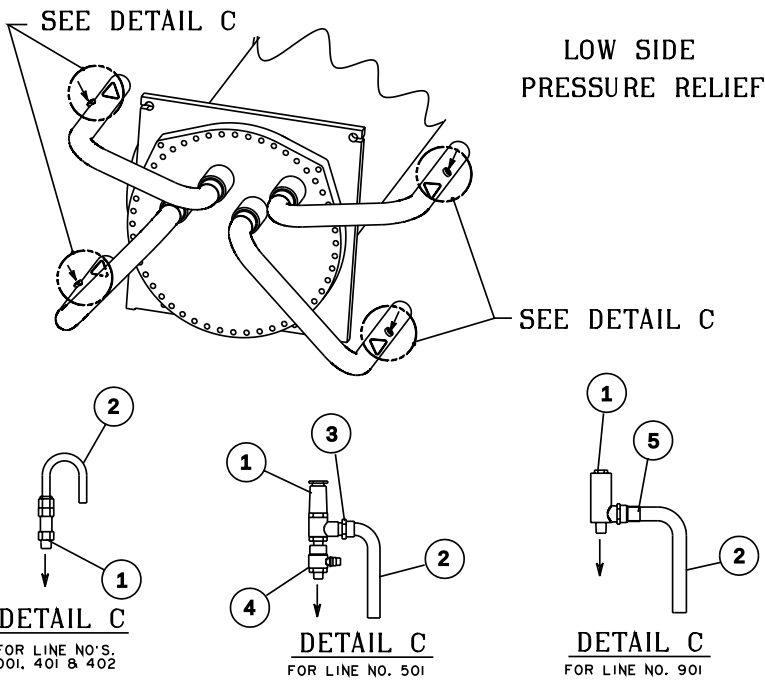
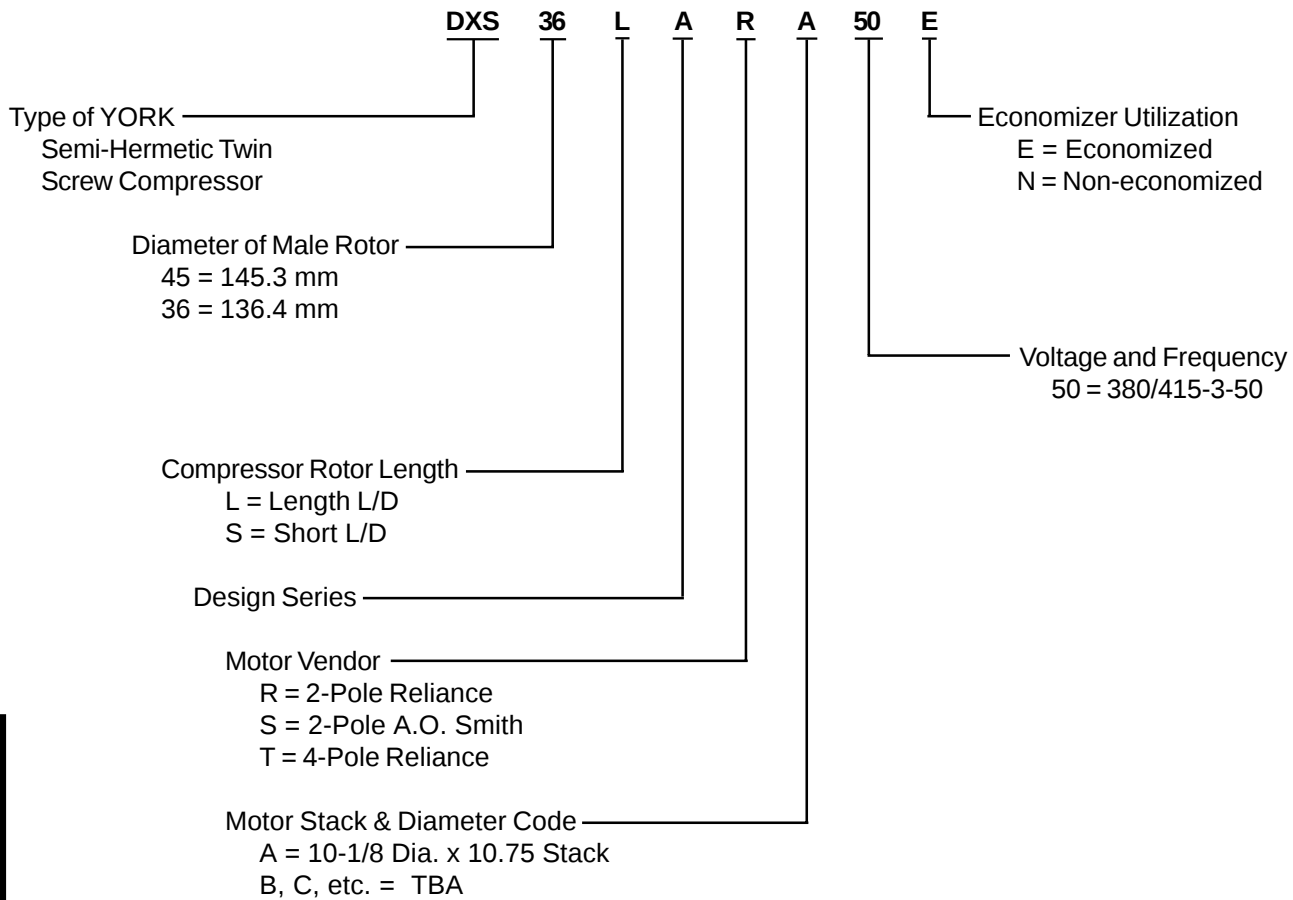


FIG. 8 – RELIEF VALVES AND HP CUTOUT SWITCH (REF. TABLE 5, PAGE 12)

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)
475-37845-000 one kit 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. These bolts should also be removed at start-up.

MODEL DXS COMPRESSOR PART NUMBERS

TABLE 6 – MODEL DXS COMPRESSOR PART NUMBERS

MODEL	VOLTAGE CODE	MM SIZE		COMPRESSOR	
		SYS 1	SYS 2	SYSTEM # 1	SYSTEM # 2
YCAS1065	-50	136	136	364-49093-215	364-49093-215
YCAS1135	-50	145	145	364-49094-215	364-49094-215
YCAS1215	-50	145	145	364-49094-215	364-49094-215

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

TABLE 6 (CONT'D) – MODEL DXS COMPRESSOR PART NUMBERS

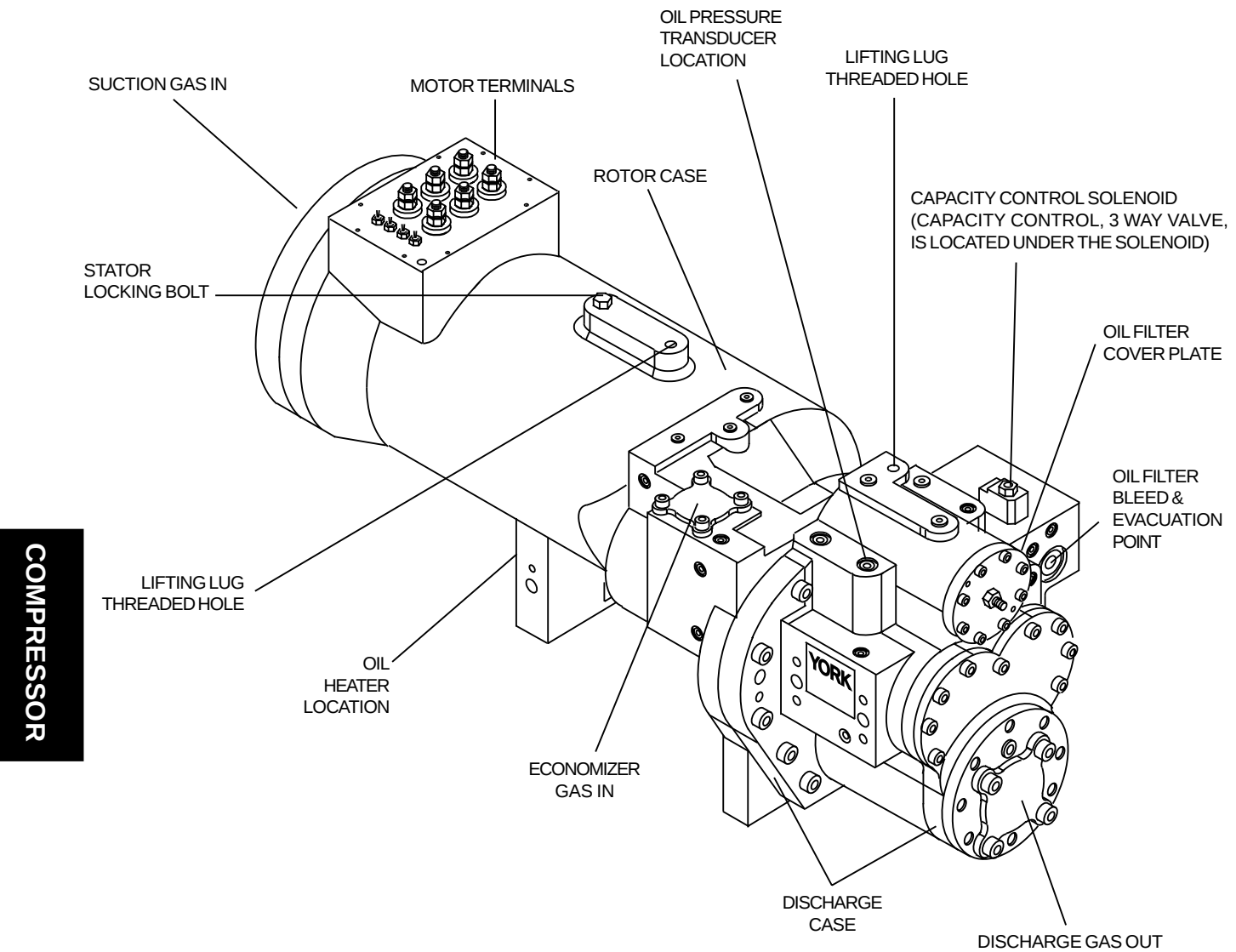
MODEL	VOLTAGE CODE	MM SIZE		COMPRESSOR	
		SYS 3	SYS 4	SYSTEM # 3	SYSTEM # 4
YCAS1065	-50	136	136	364-49093-215	364-49093-215
YCAS1135	-50	136	136	364-49093-215	364-49093-215
YCAS1215	-50	145	145	364-49094-215	364-49094-215

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

COMPRESSOR

Note: The -200 series compressors come with an economizer plug that must be removed in economized circuits. The -200 series compressors replace both the -000 (Non-Economized) and -100 (Economized) series compressors.

DXS COMPRESSOR COMPONENTS



49094-1

FIG. 9 – DXS COMPRESSOR OUTLINE

DXS COMPRESSOR COMPONENTS / RELATED PARTS

TABLE 7 – COMPRESSOR ASSEMBLY (SEE FIG. 10, PAGE 18)

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 7A – COMPRESSOR OIL AND FILTER COMPONENTS
(SEE FIG. 12, PAGE 20)**

ITEM NO.	QTY PER COMP	DESCRIPTION	MODEL YCAS1065 - YCAS1215
34S	1	FILTER,OIL	026-35601-000
35S	1	O-RING	028-13849-000
OILS	5 GAL	OIL, TYPE L POE	011-00592-000

^sRecommended Spare Part

DXS COMPRESSOR COMPONENTS / RELATED PARTS - CONT'D

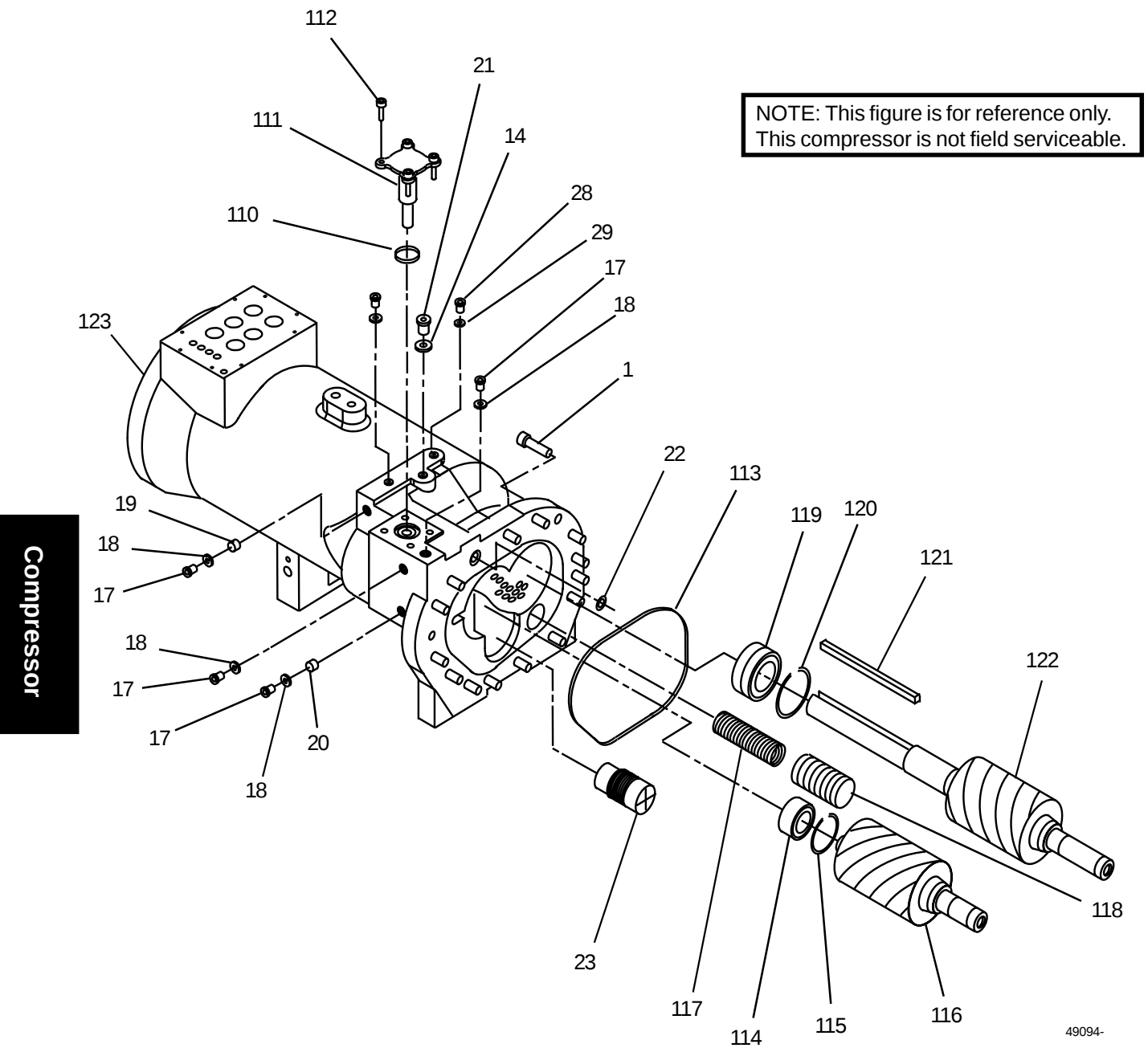
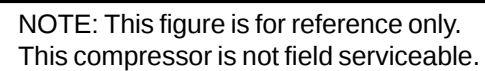


FIG. 10 – DXS COMPRESSOR PARTIAL EXPLODED VIEW (REF. TABLE 7, PAGE 17)

COMPRESSOR



LD06199

FIG. 11 – COMPRESSOR COMPONENTS - 145 MM COMPRESSOR SHOWN (REF. TABLE 8, PAGES 21 AND 22)

DXS COMPRESSOR COMPONENTS / RELATED PARTS - CONT'D

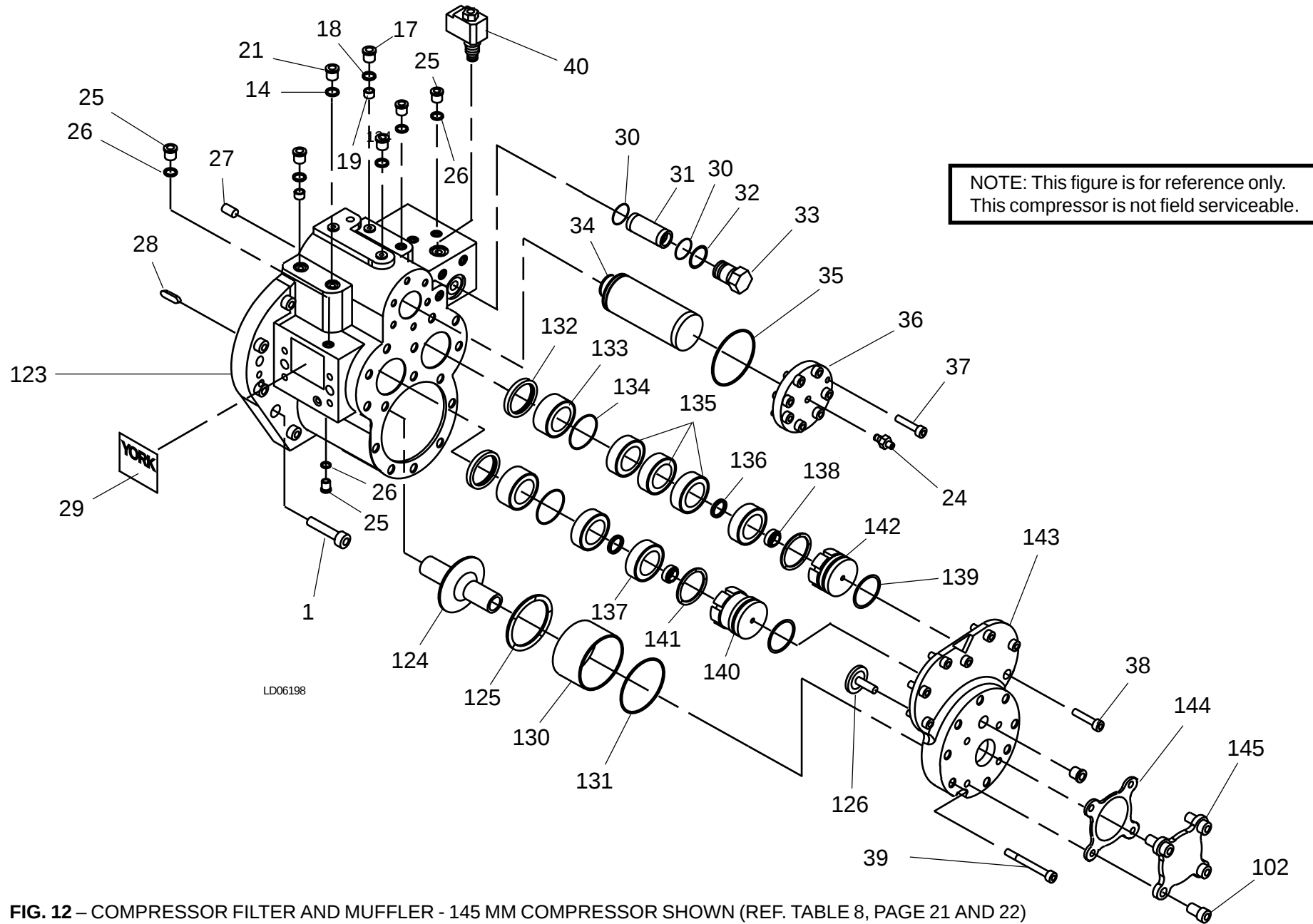


FIG. 12 – COMPRESSOR FILTER AND MUFFLER - 145 MM COMPRESSOR SHOWN (REF. TABLE 8, PAGE 21 AND 22)

DXS COMPRESSOR COMPONENTS / RELATED PARTS - CONT'D

TABLE 8 – COMPRESSOR ASSEMBLY (SEE FIGS. 11 AND 12, PAGES 19 AND 20)

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 8 (CONT'D) – COMPRESSOR ASSEMBLY (SEE FIGS. 11 AND 12, PAGES 19 AND 20)

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 -40	024-30469-004
	MOTOR, STATOR -46	024-30469-005
	MOTOR, STATOR -58	024-30469-006

COMPRESSOR AND CONTROL COMPONENTS

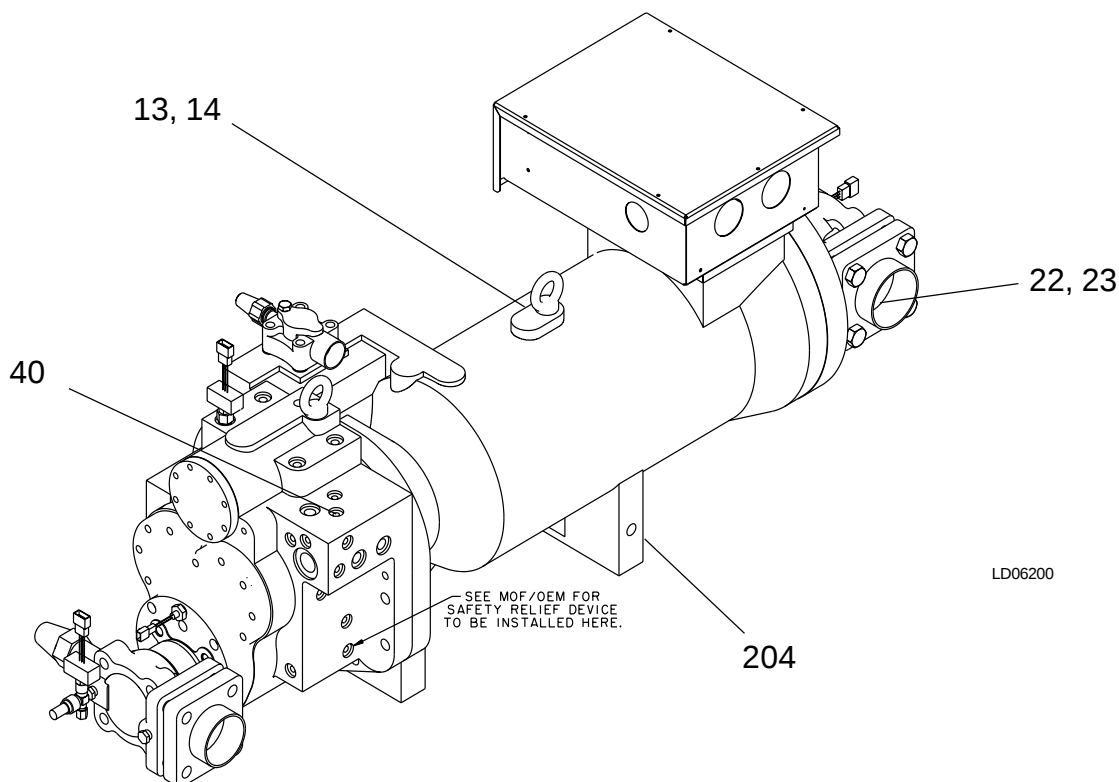
TABLE 9 – COMPRESSOR AND CONTROL COMPONENTS (SEE FIG. 13)

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

COMPRESSOR	LOCATION	DESCRIPTION	VALVE (ITEM #22)	GASKET (ITEM #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



COMPRESSOR

FIG. 13 – COMPRESSOR AND CONTROL COMPONENTS (REF. TABLES 9 AND 10)

CONTROL PANEL COMPONENTS

TABLE 11 – CONTROL PANEL COMPONENTS (SEE FIGS. 14 AND 15, PAGES 25 AND 26)

ITEM NO.	QUANTITY	DESCRIPTION	PART NO.	NOTE
1	1	Door For Micro-Compartment	RAM-201704	2-Piece Bolted Control/Option Panel
	1	Door for Options Compartment	RAM-201733	
1	1	Door For Micro-Compartment	071-03616-000	1-Piece Control/Option Panel
	1	Door For Options Compartment	071-03617-000	
S2	1	MicroBoard	031-01095-002	115V / 24V
S3	1	Power Supply Board	031-01094-000	
S4	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 (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	See Page 30
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	
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	
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

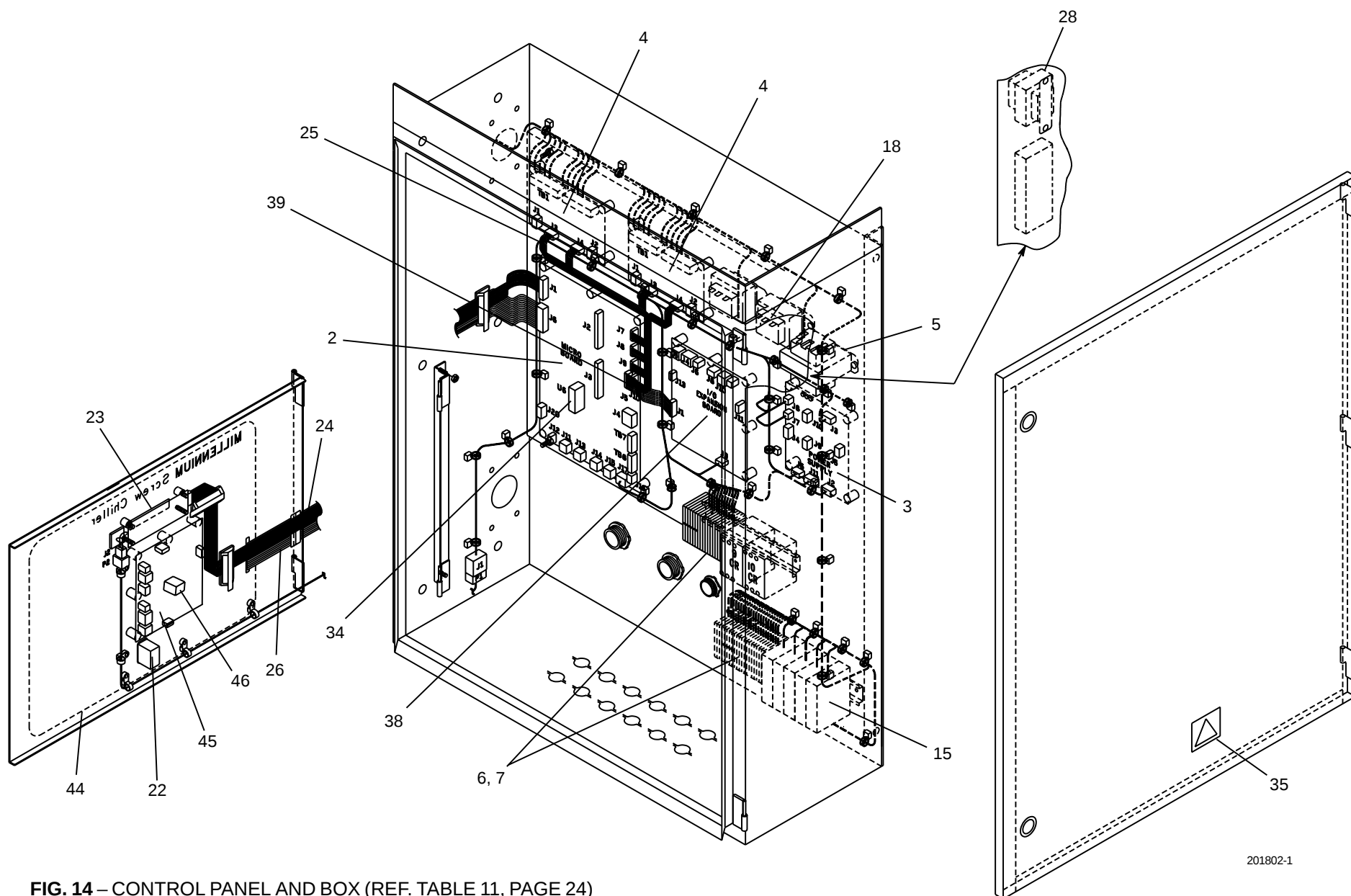


FIG. 14 – CONTROL PANEL AND BOX (REF. TABLE 11, PAGE 24)

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CONTROL PANEL COMPONENTS - CONT'D

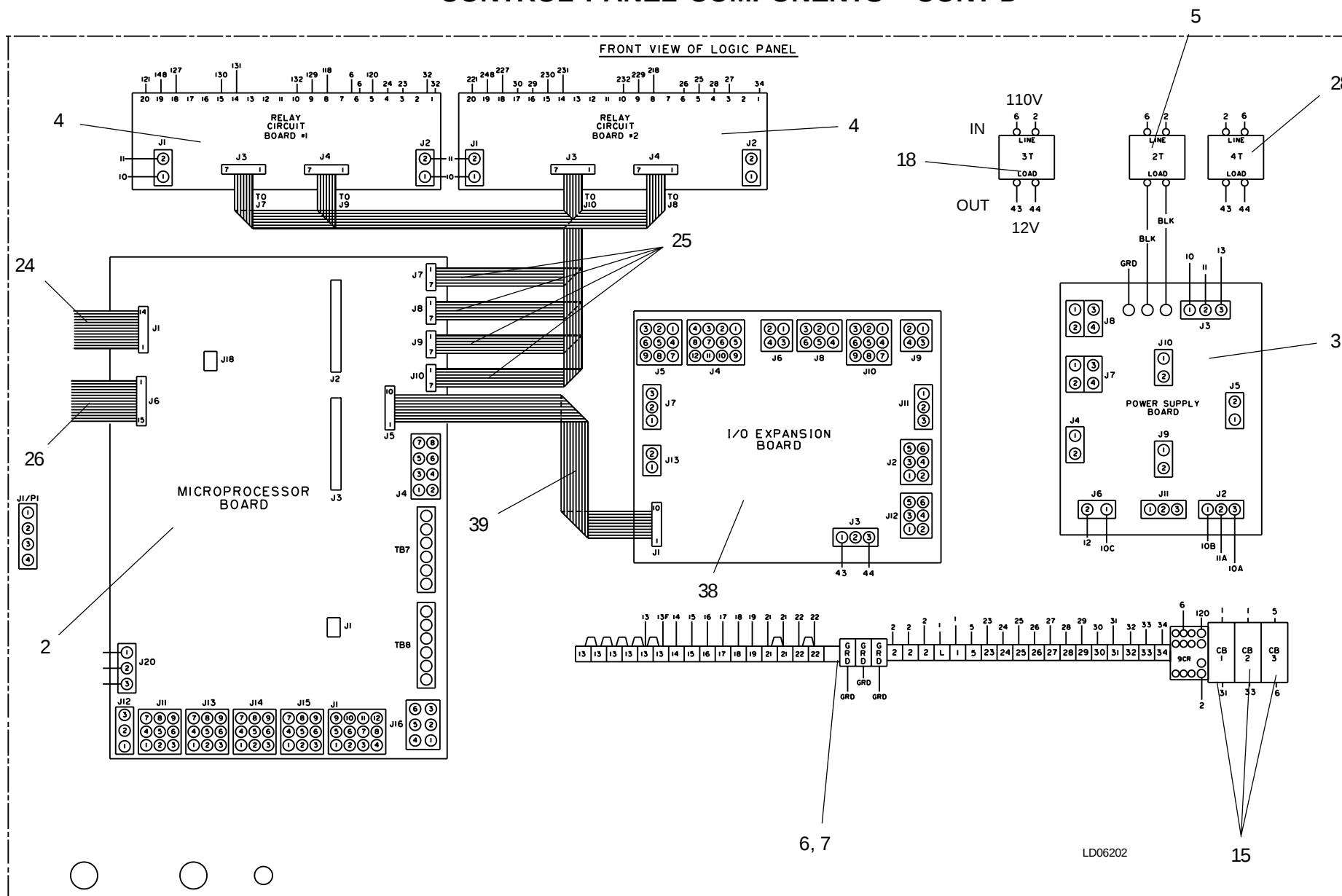


FIG. 15—CONTROL PANEL CONNECTION DIAGRAM (REF. TABLE 11, PAGE 24)

SENSOR HARNESS

TABLE 12 – SENSOR HARNESS WIRING (SEE FIGS. 17 AND 18, PAGES 29 AND 30)

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			
MICRO P14	105	3	DRAIN	9	SYS #2 SUCTION PRESSURE	371-02504-212
			RED	4		
			BLK	1		
			WHT	7		
	107	4	DRAIN	2	SYS #2 OIL PRESSURE	371-02504-214
			RED	5		
BLK			3			
WHT			8			
MICRO P11	120	5	DRAIN	9	LEAVING CHILLED WATER	371-02504-236
			RED	7		
			BLK	4		
			DRAIN	1		
	121	6	RED	8	ENTERING CHILLED WATER	371-02504-237
			BLK	5		
DRAIN			2			
RED			9			
122	7	BLK	6	OUTSIDE AIR TEMP.	371-02504-238	
		DRAIN	3			
		MICRO P15	109			9
BLK	1					
WHT	7					
DRAIN	2					
108	8		RED	5	SYS #1 DISCH. PRESSURE	371-02504-215
			BLK	3		
		WHT	8			
		DRAIN	9			
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	371-02504-253
BLK (48)	2					
DRAIN	6					
I/O P12	130	32	RED (49)	1	SYS #2 SLIDE VALVE	371-02504-254
BLK (50)	2					
DRAIN	6					
I/O P2	133	54	RED (57)	3	SYS #3 SLIDE VALVE	371-02504-263
BLK (58)	4					
DRAIN	5					
I/O P12	134	55	RED (59)	3	SYS #4 SLIDE VALVE	371-02504-264
BLK (60)	4					
DRAIN	5					
I/O P11	115	29	RED (57)	1	SYS #1 COOLER INLET TEMP. SENSOR (407C)	371-02504-226
			BLK (58)	2		
			DRAIN	3		
I/O P2	116	30	RED (59)	1	SYS #2 COOLER INLET TEMP. SENSOR(407C)	371-02504-231
			BLK (60)	2		
			DRAIN	3		

**CONTROL
PANEL**

SENSOR HARNESS - CONT'D

TABLE 12 (CONT'D) – SENSOR HARNESS WIRING (SEE FIGS. 17 AND 18, PAGES 29 AND 30)

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	371-02504-222
			BLK	1		
			WHT	10		
			DRAIN	2		
	113	43	RED	6	SYS #4 OIL PRESSURE	371-02504-224
			BLK	3		
			WHT	11		
			DRAIN	4		
	115	45	RED	7	SYS #4 DISCHARGE PRESSURE	371-02504-226
			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
			BLK	9		
			DRAIN	2		
I/O 2 P8	103	49	RED	9	SYS #4 OIL TEMPERATURE	371-02504-204
			BLK	12		
			DRAIN	5		
	126	51	RED	7	SYS #4 DISCHARGE TEMPERATURE	371-02504-244
			BLK	14		
			DRAIN	1		
I/O 2 P5	123	46	RED	9	SYS #3 SUCTION TEMPERATURE	371-02504-242
			BLK	12		
			DRAIN	5		
	124	47	RED	10	SYS #4 SUCTION TEMPERATURE	371-02504-241
			BLK	13		
			DRAIN	6		
I/O 2 P11	117	52	RED (57)	7	SYS #3 COOLER INLET TEMP. SENSOR (407C)	371-02504-232
			BLK (58)	14		
			DRAIN	1		
I/O P2	116	30	RED (59)	8	SYS #4 COOLER INLET TEMP. SENSOR(407C)	371-02504-233
			BLK (60)	15		
			DRAIN	2		

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

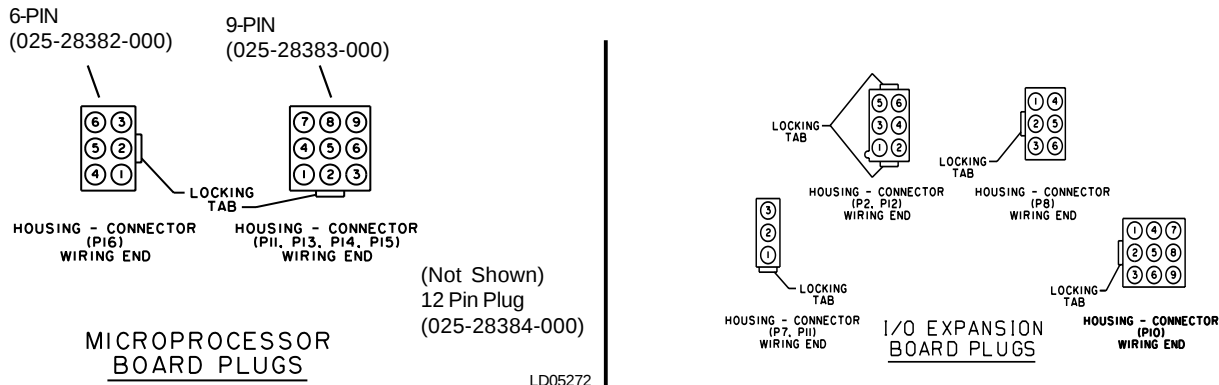
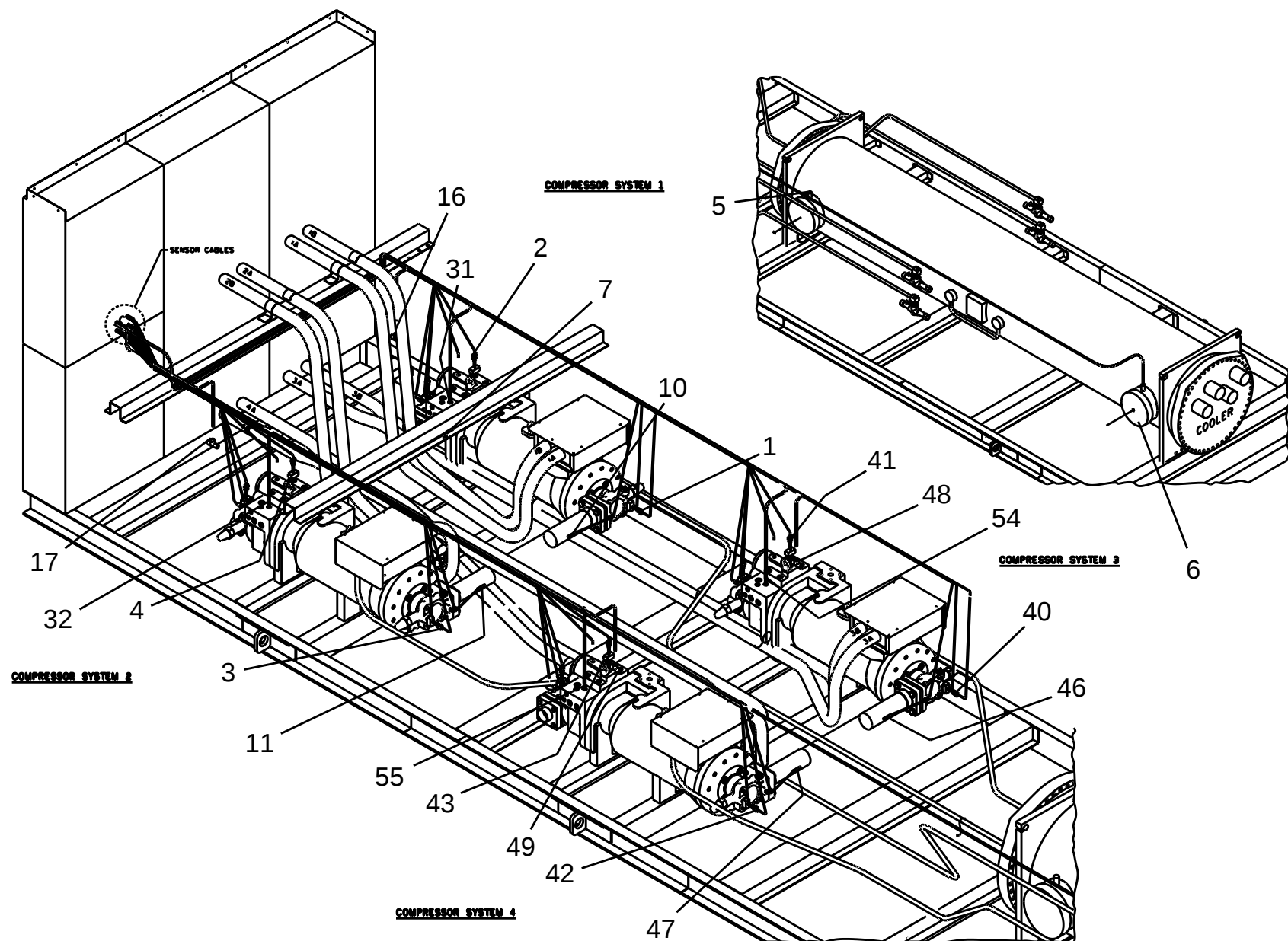


FIG. 16 – SENSOR HOUSING PART NUMBERS (SEE FIGS. 17 AND 18, PAGES 29 AND 30)



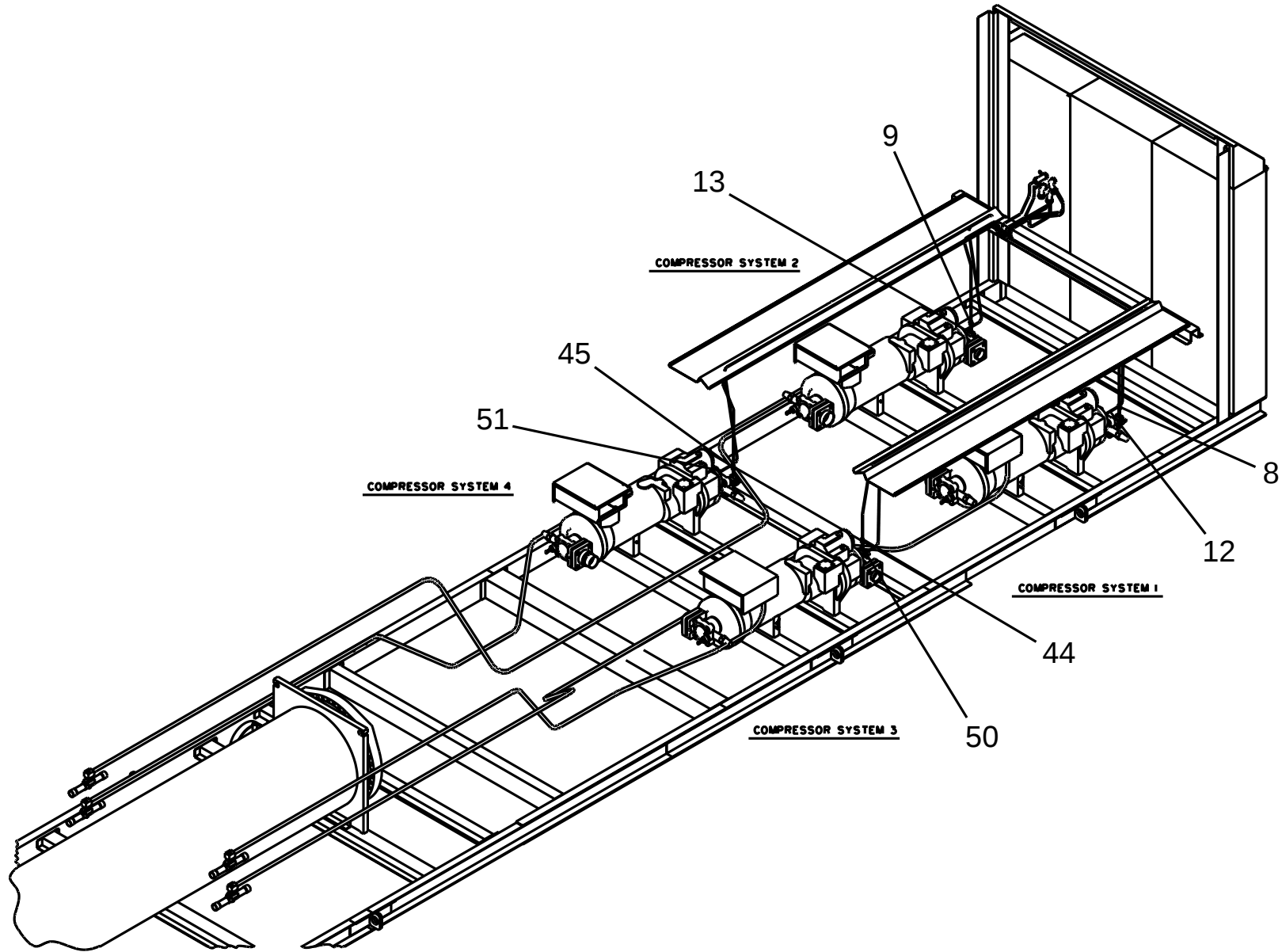
SENSOR HARNESS - CONT'D

FIG. 17 - HARNESS LAYOUT (REF. TABLE 12, PAGES 27 AND 28)

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FORM 201.18-RP12

CONTROL
PANEL



SENSOR HARNESS – CONT'D

35742-05

FIG. 18 – HARNESS LAYOUT (REF. TABLE 12, PAGES 27 AND 28)

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

TABLE 13 – TRANSDUCER, TEMPERATURE SENSOR AND WIRE HARNESS
CONNECTOR - FIELD REPLACEMENT PART NUMBERS - (SEE FIG. 19)

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

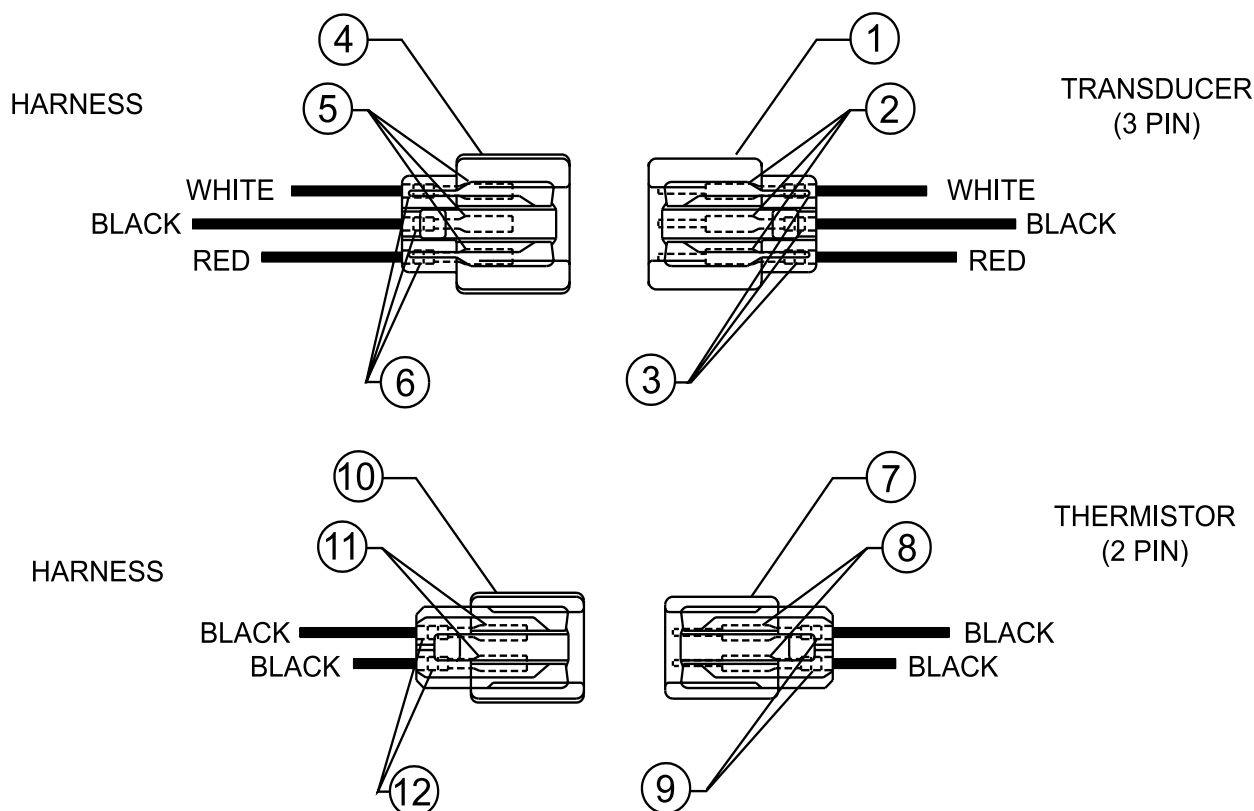


FIG. 19 – ADAPTER, TRANSDUCER AND TEMPERATURE SENSOR FIELD REPLACEMENT
(REF. TABLE 13)

TRANSDUCERS AND TEMP SENSORS

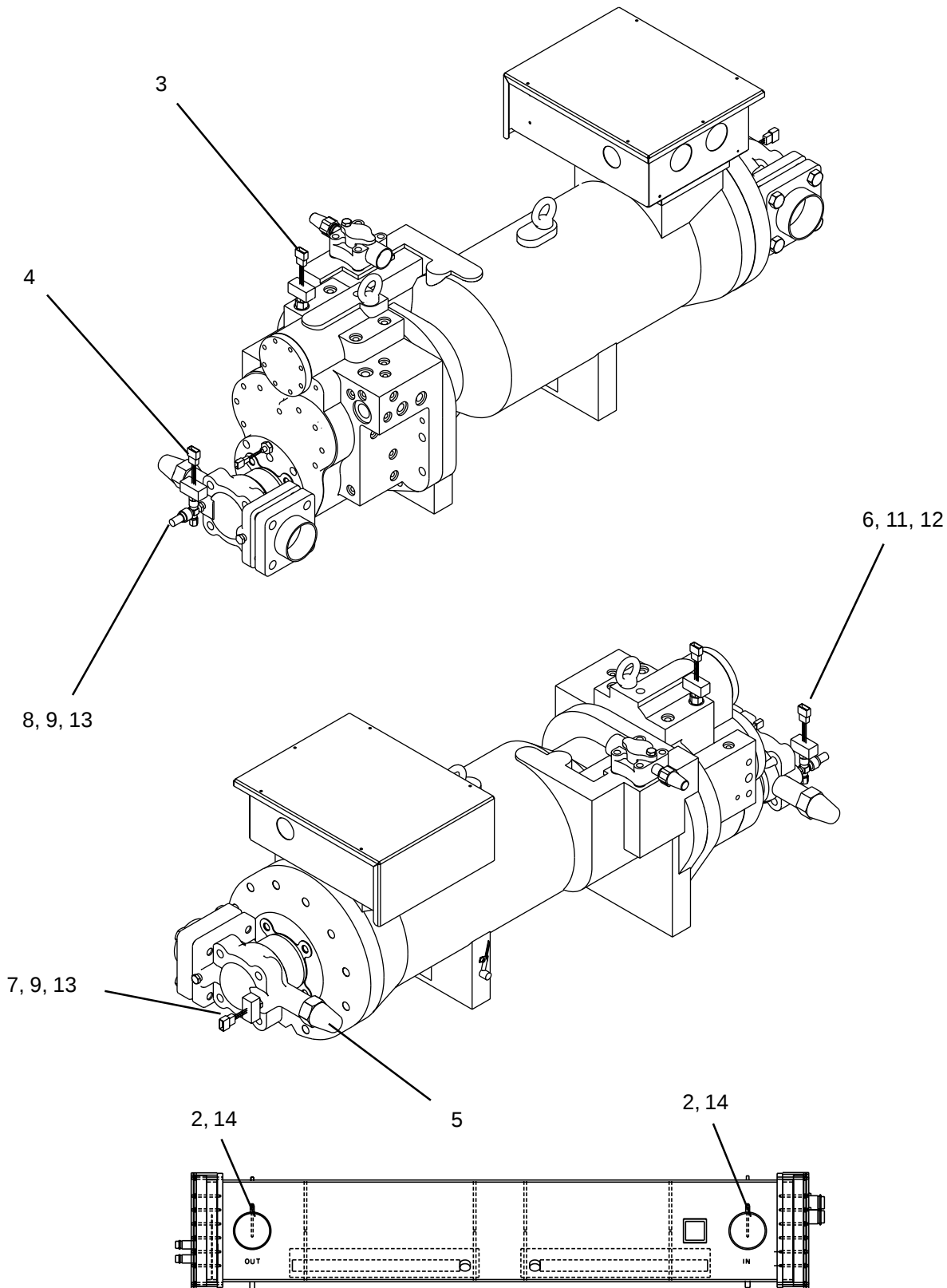


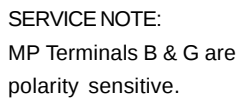
FIG. 20 – TRANSDUCERS AND TEMP SENSORS (REF. TABLE 14, PAGE 33)

TRANSDUCERS AND TEMP SENSORS – CONT'D

TABLE 14 – TRANSDUCERS AND TEMP SENSORS (SEE FIG. 20, PAGE 32)

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

POWER
PANEL

LD05853

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POWER PANEL IDENTIFIERS - ACROSS-THE-LINE

TABLE 15 – 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, PAGE 36 AND FIG. 21 ON PAGE 34).

MODEL	POWER PANEL WITH TERMINAL BLOCK	POWER PANEL WITH SEPARATE SYSTEM CIRCUIT BREAKERS
	PANEL NUMBER	PANEL NUMBER
YCAS1065E-50XF	371-02494-104	371-02494-214
YCAS1135E-50XF	371-02494-103	371-02494-203
YCAS1215E-50XF	371-02494-107	371-02494-206

POWER
PANEL

POWER PANEL COMPONENTS - ACROSS-THE-LINE

TABLE 16 – POWER PANEL COMPONENTS - ACROSS THE LINE (SEE FIG. 21, PAGE 34)

ITEM	DESCRIPTION	QTY.	371-02494-103	371-02494-104	371-02494-106
1A	Contactors (Sys.1&2)	2	024-31638-000	024-31642-000	024-31638-000
	Contactors (Sys.3&4)	2	024-31642-000	024-31642-000	024-31642-000
1C	Surge Suppressor	4	031-00808-000	031-00808-000	031-00808-000
1E	Lugs, Cont. (Sys.1&2)	2	025-34089-000	025-34089-000	025-34089-000
	Lugs, Cont. (Sys.3&4)	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	2	025-34085-000	025-34089-000	025-34085-000
5	Ground Lug	2	025-34089-000	025-34089-000	025-34089-000
6	Terminal Block (Sys.1&2)	6	025-34408-000	025-34454-000	025-34408-000
	Terminal Block (Sys.3&4)	6	025-34454-000	025-34454-000	025-34454-000
7	Circuit Breaker	—	—	—	—
		—	—	—	—
8	NF Disc Switch	—	—	—	—
		—	—	—	—
10	Operator Mech.	—	—	—	—
11	Sw. C/B Aux.2A/2B	—	—	—	—

^S = Recommended Spare Parts

**TABLE 16 (CONT'D) – POWER PANEL COMPONENTS - ACROSS THE LINE
(SEE FIG. 21, PAGE 34)**

ITEM	DESCRIPTION	QTY.	371-02494-203	371-02494-206	371-02494-214
1A	Contactors (Sys.1&2)	2	024-31638-000	024-31638-000	024-31642-000
	Contactors (Sys.3&4)	2	024-31642-000	024-31638-000	024-31643-000
1C	Surge Suppressor	12	031-00808-000	031-00808-000	031-00808-000
1E	Lugs, Cont. (Sys.1&2)	2	025-34088-000	025-34085-000	025-34085-000
	Lugs, Cont. (Sys.3&4)	2	025-34089-000	025-34085-000	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 (Sys.1&2)	4	025-34480-000	025-34480-000	025-34480-000
	Ground Lug (Sys.3&4)	2	025-34420-000	025-34420-000	025-34420-000
5	Ground Lug	2	025-31650-000	025-34420-000	025-34420-000
6	Terminal Block	—	—	—	—
		—	—	—	—
7	Circuit Breaker (Sys.1&2)	2	025-34424-000	025-34424-000	024-31819-000
	Circuit Breaker (Sys.3&4)	2	025-31819-000	025-34424-000	024-31819-000
8	NF Disc Switch	—	—	—	—
		—	—	—	—
10	Operator Mech.	4	024-31878-000	024-31878-000	024-31878-000
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 35.**

POWER PANEL - WYE-DELTA

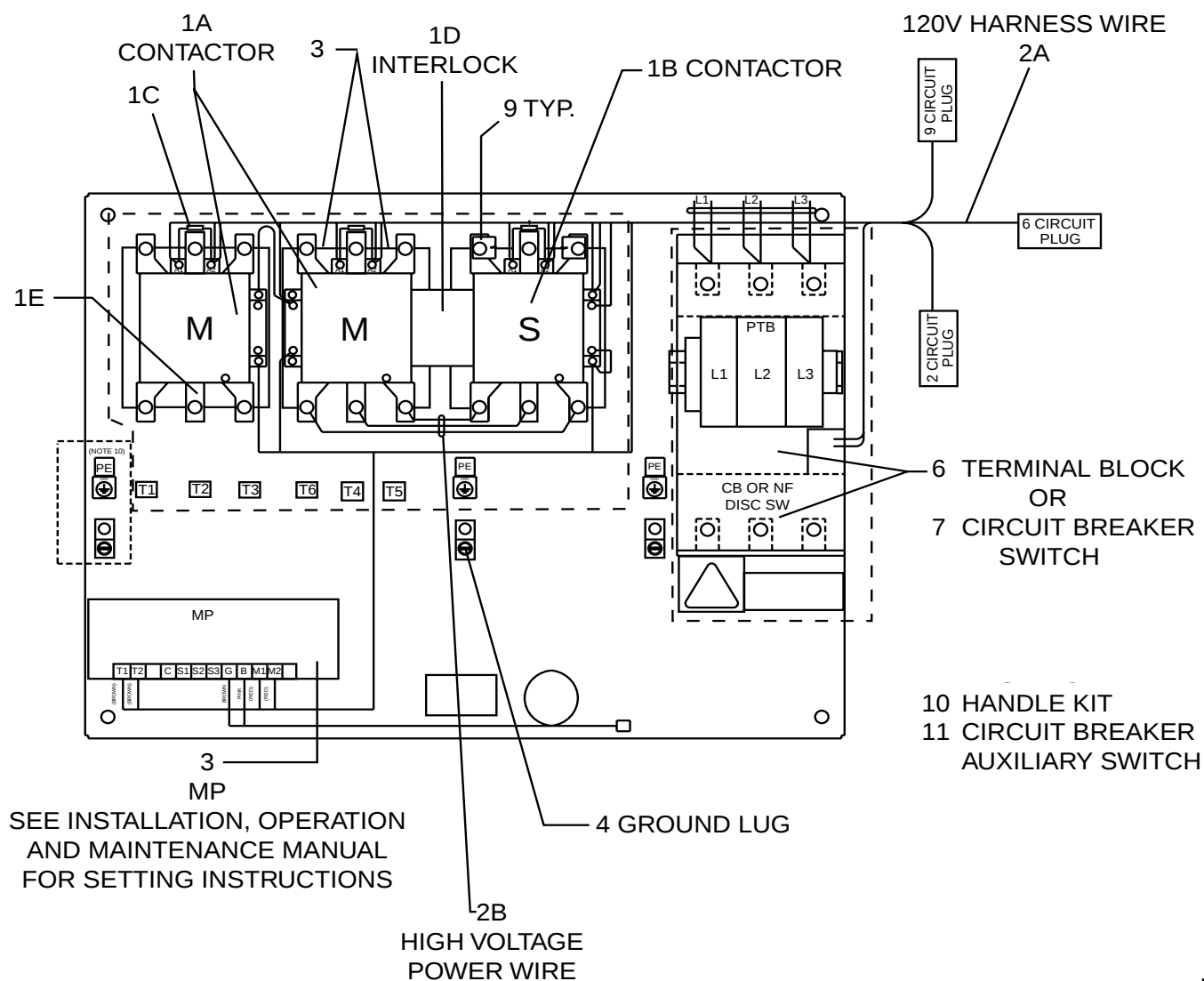


FIG. 22 – POWER PANEL COMPONENTS - WYE DELTA (REF. 'POWER PANEL COMPONENTS- 'WYE DELTA" TABLE, PAGE 39)

POWER PANEL IDENTIFIERS - WYE DELTA

TABLE 17 – 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 39, AND FIG. 22 ON PAGE 37).

Model	Power Panel with Terminal Block	Power Panel with Separate System Circuit Breakers
	Panel Number	Panel Number
YCAS1065E-50YF	N/A	371-02494-226
YCAS1135E-50YF	N/A	371-02494-224
YCAS1215E-50YF	N/A	371-02494-227

POWER PANEL COMPONENTS - WYE-DELTA

TABLE 18 – POWER PANEL COMPONENTS - WYE DELTA (SEE FIG. 22, PAGE 37)

ITEM	DESCRIPTION	QTY.	371-02494-224	371-02494-226	371-02494-227
1A	Contactor M (Sys.1&2)	2 ea.	024-26577-000	024-31603-000	024-26577-000
	Contactor M (Sys.3&4)	2 ea.	024-31603-000	024-31603-000	024-26577-000
1B	Contactor S (Sys.1&2)	1 ea.	024-26577-000	024-31636-000	024-26577-000
	Contactor S (Sys.3&4)	1 ea.	024-31636-000	024-31636-000	024-26577-000
1C	Surge Suppressor	12	031-02203-000	031-00808-000	031-00808-000
1D	Mech Interlock (Sys.1&2)	2	024-31600-000	024-31601-000	024-31601-000
	Mech Interlock (Sys.3&4)	2	024-31601-000	024-31601-000	024-31601-000
1E	Lugs, Contactor	2	025-34088-000	025-34088-000	025-34088-000
		2	025-34089-000	025-34088-000	025-34089-000
2A	120V Harness	2	071-02600-000	071-02600-000	071-02600-000
		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	025-34085-000
6	Terminal Block	—	—	—	—
		—	—	—	—
7	Circuit Breaker (Sys.1&2)	2	025-34424-000	024-31819-000	025-34424-000
	Circuit Breaker (Sys.3&4)	2	025-34419-000	025-34419-000	025-34424-000
8	NF Disc Switch	—	—	—	—
		—	—	—	—
10	Operator Mech.	4	024-31878-000	024-31878-000	024-31878-000
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 38.

4 FAN CONTACTOR PANEL COMPONENTS (ALL OTHER CONTACTOR PANELS SIMILAR)

TABLE 19 – 4 FAN CONTACTOR PANEL COMPONENTS – YCAS F (SEE FIG. 23, PAGE 41)

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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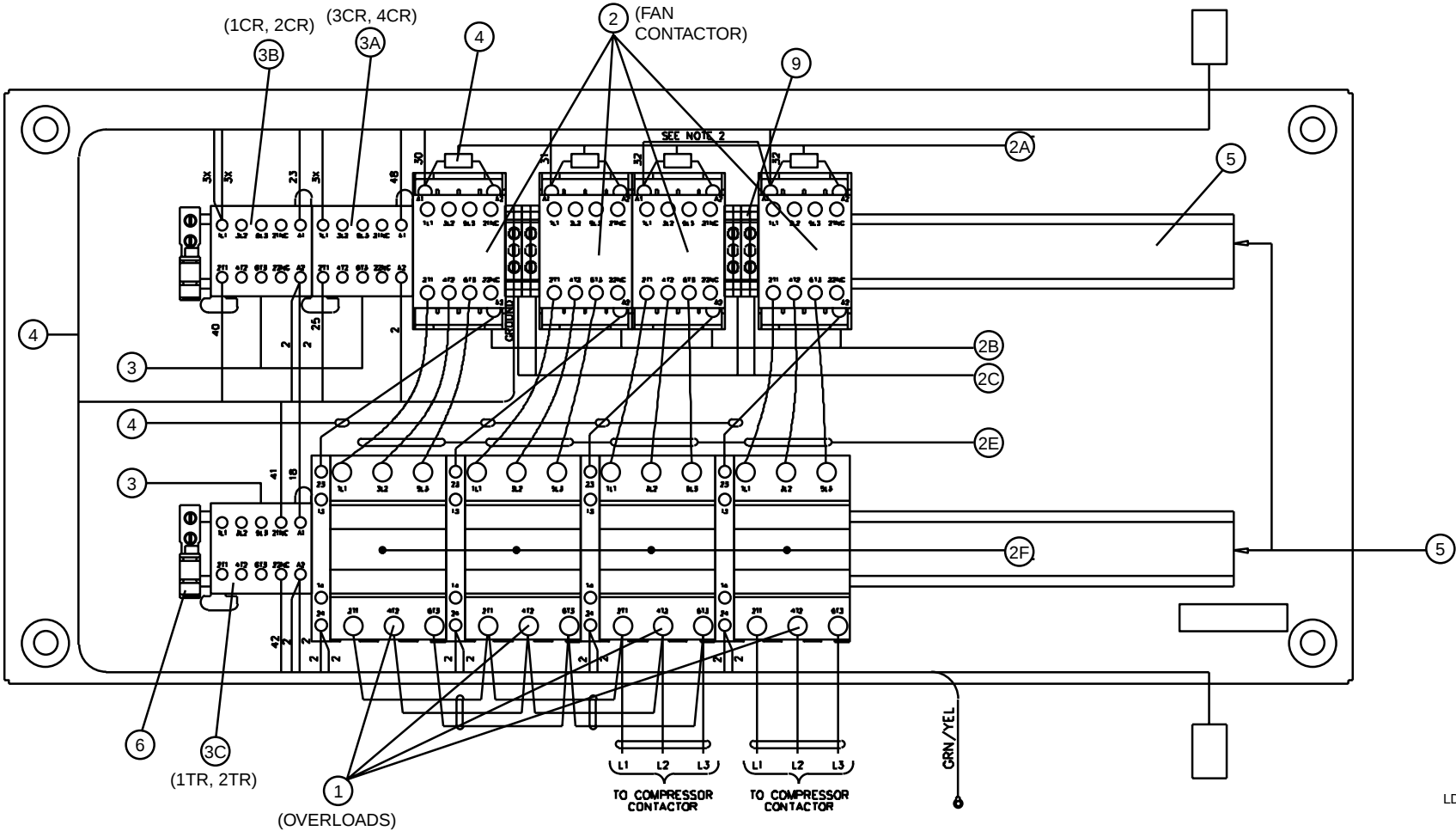


FIG. 23 – 4 FAN CONTACTOR PANEL (REF. TABLE 19, PAGE 40)

OPTION AND POWER PANEL CONFIGURATIONS 4 COMPRESSOR UNIT

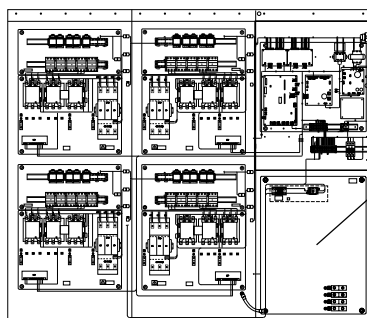
Power panels and option panels are offered in several configurations using three (3) major components:

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.

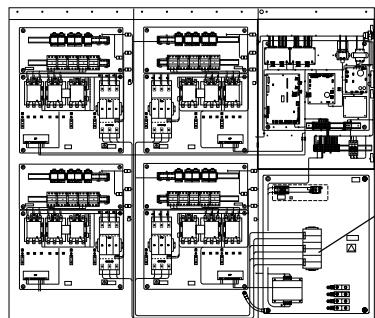
PIN 16 & 17 LETTER CODE IDENTIFIERS	POWER PANEL AND OPTION PANEL CONFIGURATION
X X	Terminal Blocks for each system in power panel; (2) MP terminal blocks in option panel
M D	Terminal Blocks for each system in power panel; (2) NF disc switch in option panel
M B	Circuit Breaker switch for each system in 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:



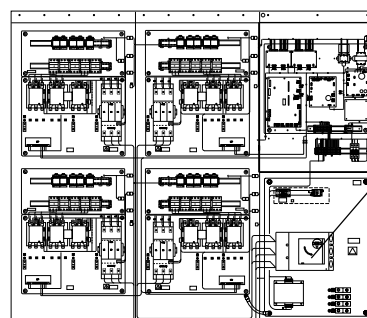
201812-34

(Chiller PIN Code MB, MD or MX)



201812-1

(Chiller PIN Code SB, SS or SX)



201812-2

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

FIG. 24 – EXAMPLES OF POWER WIRING CONFIGURATIONS (4 COMPRESSOR UNITS)

OPTION PANEL IDENTIFIERS

TABLE 20 – OPTION PANEL IDENTIFIERS (TO IDENTIFY REPLACEMENT PART NUMBERS, SELECT PANEL IDENTIFIER NUMBER BELOW, THEN REFER TO HIGHLIGHTED ROW ON TABLE 21, AND FIGS. 25 AND 26 ON PAGES 44 - 46).

Dual Point Supply Terminal Block or NF Disconnect Switch with Separate System Terminal Block - without Control Transformer.

MODEL	CODE	TERMINAL BLOCK	QTY.	NF DISC. SWITCH	QTY.
YCAS1065	50	371-02497-113	1	371-02497-140	1
YCAS1135	50	371-02497-111	1	371-02497-141	1
YCAS1215	50	371-02497-111	1	371-02497-141	1

Dual Point Supply Terminal Block or NF Disconnect Switch with Separate System Terminal Block - with Control Transformer.

MODEL	CODE	TERMINAL BLOCK	QTY.	NF DISC. SWITCH	QTY.
YCAS1065	50	371-02497-218	1	371-02497-242	1
YCAS1135	50	371-02497-215	1	371-02497-244	1
YCAS1215	50	371-02497-215	1	371-02497-244	1

Dual Point Supply Terminal Block or NF Disconnect Switch with Separate System Circuit Breakers - without Control Transformer.

MODEL	CODE	TERMINAL BLOCK	QTY.	NF DISC. SWITCH	QTY.
YCAS1065	50	371-02497-113	1	371-02497-140	1
YCAS1135	50	371-02497-111	1	371-02497-141	1
YCAS1215	50	371-02497-111	1	371-02497-141	1

Dual Point Supply Terminal Block or NF Disconnect Switch with Separate System Circuit Breakers - with Control Transformer.

MODEL	CODE	TERMINAL BLOCK	QTY.	NF DISC. SWITCH	QTY.
YCAS1065	50	371-02497-218	1	371-02497-242	1
YCAS1135	50	371-02497-215	1	371-02497-244	1
YCAS1215	50	371-02497-215	1	371-02497-244	1

Single Point Supply Terminal Block or NF Disconnect Switch with Separate System Circuit Breakers - without Control Transformer.

MODEL	CODE	TERMINAL BLOCK	QTY.	NF DISC. SWITCH	QTY.
YCAS1065	50	371-02497-102	1	371-02497-131	1
YCAS1135	50	371-02497-102	1	371-02497-132	1
YCAS1215	50	371-02497-102	1	371-02497-132	1

Single Point Supply Terminal Block or NF Disconnect Switch with Separate System Circuit Breakers - with Control Transformer.

MODEL	CODE	TERMINAL BLOCK	QTY.	NF DISC. SWITCH	QTY.
YCAS1065	50	371-02497-207	1	371-02497-233	1
YCAS1135	50	371-02497-207	1	371-02497-236	1
YCAS1215	50	371-02497-207	1	371-02497-236	1

* Note: To find Option Panel Identifier, See FIGURES 25 and 26 for Part Label location.

OPTION PANEL COMPONENTS

TABLE 21 – OPTIONS PANEL COMPONENTS (SEE FIGS. 25 AND 26, PAGES 45 AND 46)

ITEM	DESCRIPTION	QUANTITY	371-02497-102	371-02497-111	371-02497-113	371-02497-131	371-02497-132	371-02497-140	371-02497-141	371-02497-207	371-02497-215
4A	Terminal Block	6, 9 or 12	025-34405-000	025-34408-000	025-34405-000	—	—	—	—	—	—
	NF Disconnect Switch	1	—	—	—	024-25562-000	024-25241-000	024-25564-000	024-25563-000	024-25562-000	024-25241-000
	Circuit Breaker	—	—	—	—	—	—	—	—	—	—
4B	Handle Kit	1	—	—	—	025-34413-000	025-34411-000	025-34417-000	025-34413-000	025-34413-000	025-34411-000
4C	Lug Kit	1	—	—	—	025-34415-000	025-34412-000	025-34420-000	025-34414-000	025-34415-000	025-34412-000
4D	Lug Kits with Power Tap	1	—	—	—	024-31654-000	024-31655-000	—	024-34415-000	024-31654-000	024-31655-000
4E	Insertion Bridge	3	025-34426-000	025-34422-000	025-34426-000	—	—	—	—	—	—
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	371-02497-218	371-02497-233	371-02497-236	371-02497-242	371-02497-244
4A	Terminal Block	3	025-34408-000	025-34408-000	025-34405-000	—	—
	NF Disconnect Switch	1	—	—	—	024-25563-000	024-25562-000
	Circuit Breaker	1	—	—	—	—	—
4B	Handle Kit	1	—	—	—	025-34413-000	025-34413-000
4C	Lug Kit	1	—	—	—	025-34414-000	025-34415-000
4D	Lug Kits with Power Tap	1	—	—	—	024-31654-000	024-31654-000
4E	Insertion Bridge	3	025-34422-000	025-34422-000	025-34423-000	—	—
1C	Switch, Control Power	1	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
1E	Handle, Control Power Sw.	—	024-31832-000	024-31832-000	024-31832-000	024-31832-000	024-31832-000
2B	Transformer	1	025-35660-000	025-35661-000	025-35660-000	025-35662-000	025-35661-000
2A	Fuse	2	025-34428-000	025-35608-000	025-34428-000	025-34435-000	025-35608-000

NOTE: Hi-lighted numbers refer to TABLE 23 - Option Panel Identifiers on Page 47.

OPTION PANEL COMPONENTS - (CONT'D)

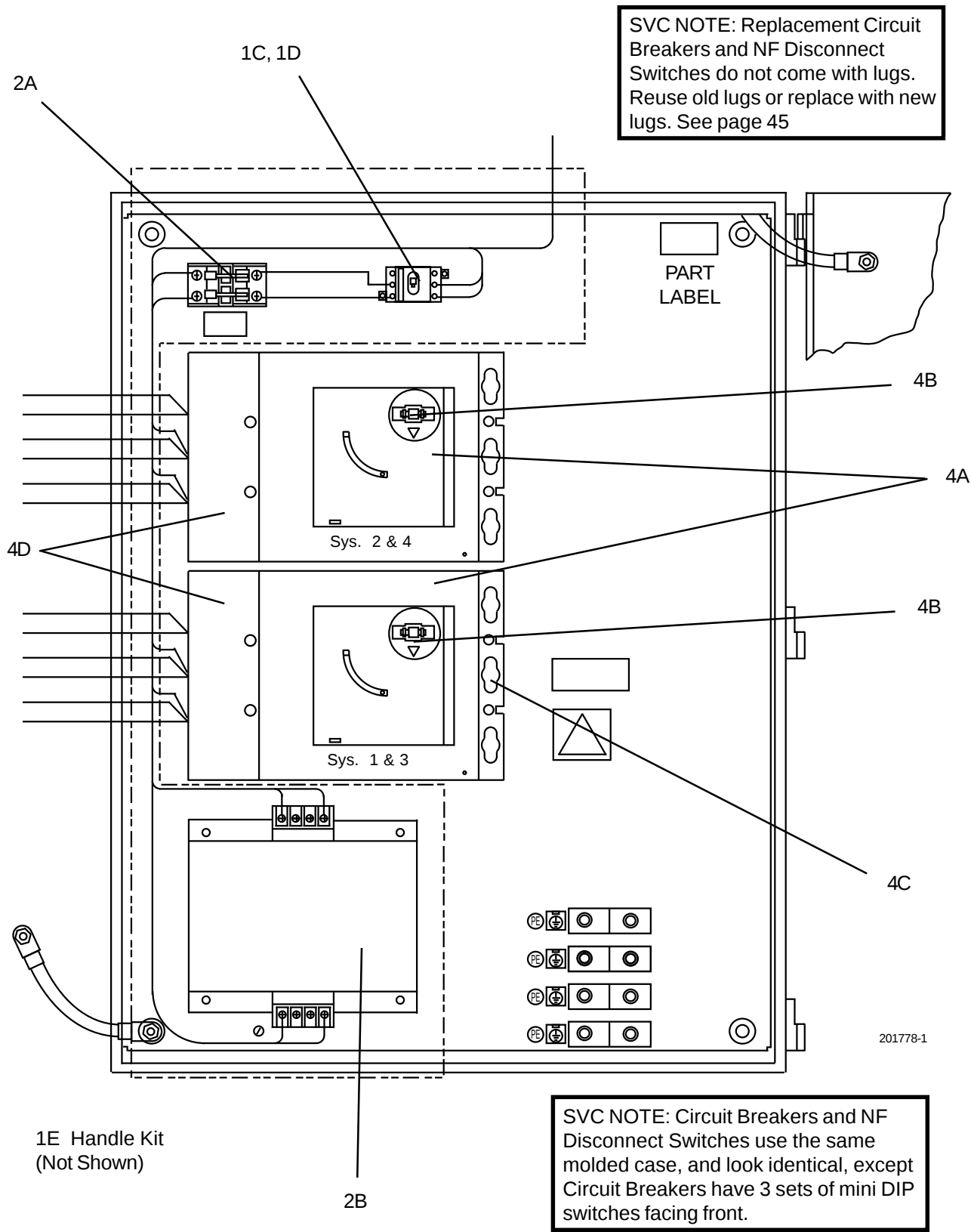


FIG. 25 – OPTION PANEL SHOWN WITH CIRCUIT BREAKER OR NON-FUSED DISCONNECT SWITCH (REF. TABLE 21, PAGE 44)

OPTION PANEL COMPONENTS - (CONT'D)

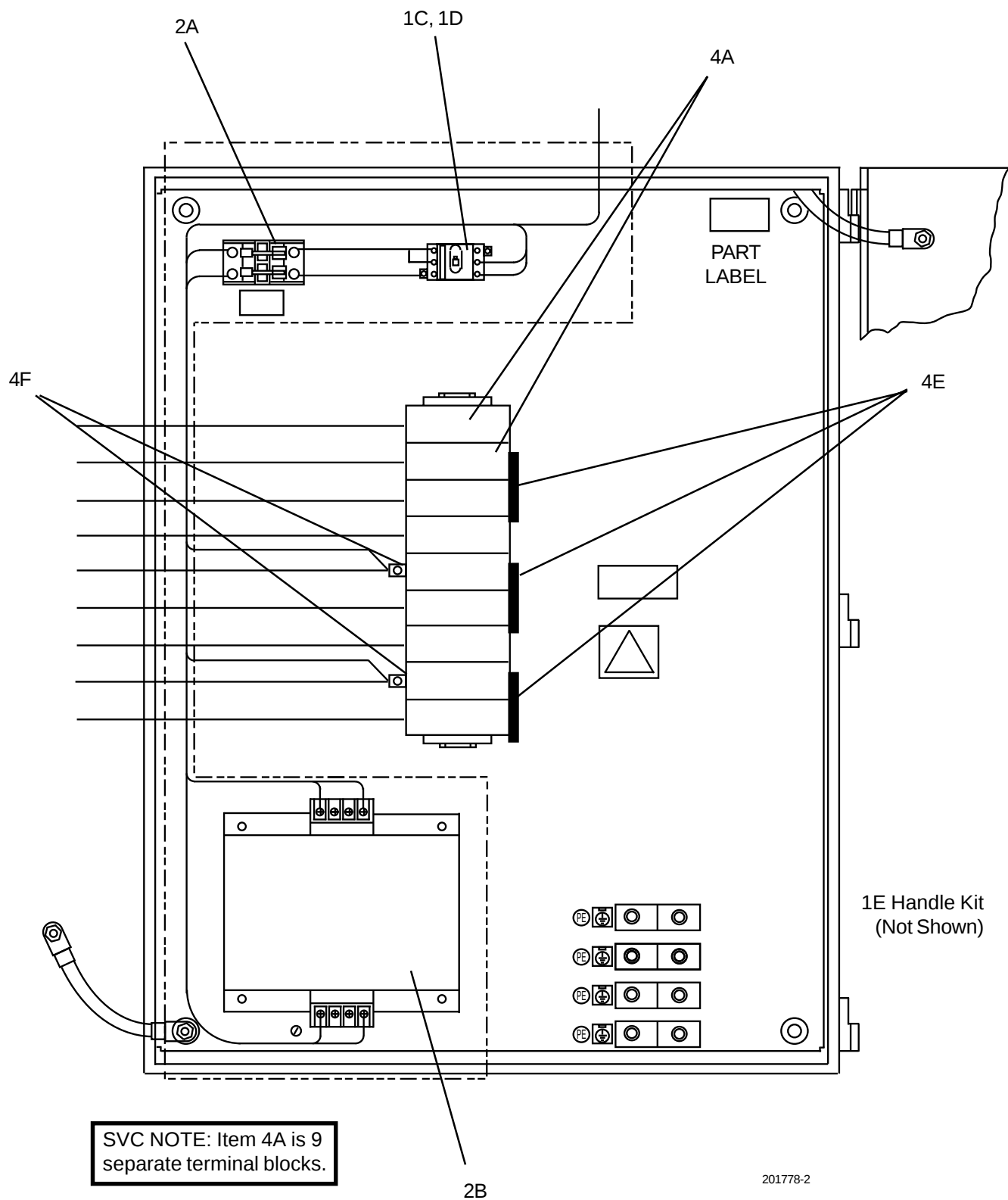


FIG. 26 – OPTION PANEL SHOWN WITH POWER TERMINAL BLOCK
(REF. TABLE 21, PAGES 44)

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TABLE 22 – 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 NEOPRENE	VIBRATION ISOLATORS SPRING 1" DEFLEC* CU/CU	VIBRATION ISOLATORS SPRING 2" (SEISMIC) CU/CU	VIBRATION ISOLATOR PAD 1/2" DEFLEC NEOPRENE	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#	029-22981	029-22981	029-22981	029-22981	029-22981	029-22981					371-02492	371-02485
1065	-104	-204	-004	-108	-209	-008	475-31597-000	475-38561-000	475-31605-000	475-31609-000	-101 & -102	-105
1135	-104	-204	-004	-108	-209	-008	475-31597-000	475-38561-000	475-31605-000	475-31609-000	-101 & -102	-105
1215	-104	-205	-004	-108	-209	-008	475-31597-000	475-38561-000	475-31605-000	475-31609-000	-101 & -102	-105

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

ENCLOSURE KIT OPTIONS

TABLE 23 – 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
1065	475-31597-000	475-38561-000	475-31605-000	475-31609-000
1135	475-31597-000	475-38561-000	475-31605-000	475-31609-000
1215	475-31597-000	475-38561-000	475-31605-000	475-31609-000

- Individual parts are shown on the following pages.

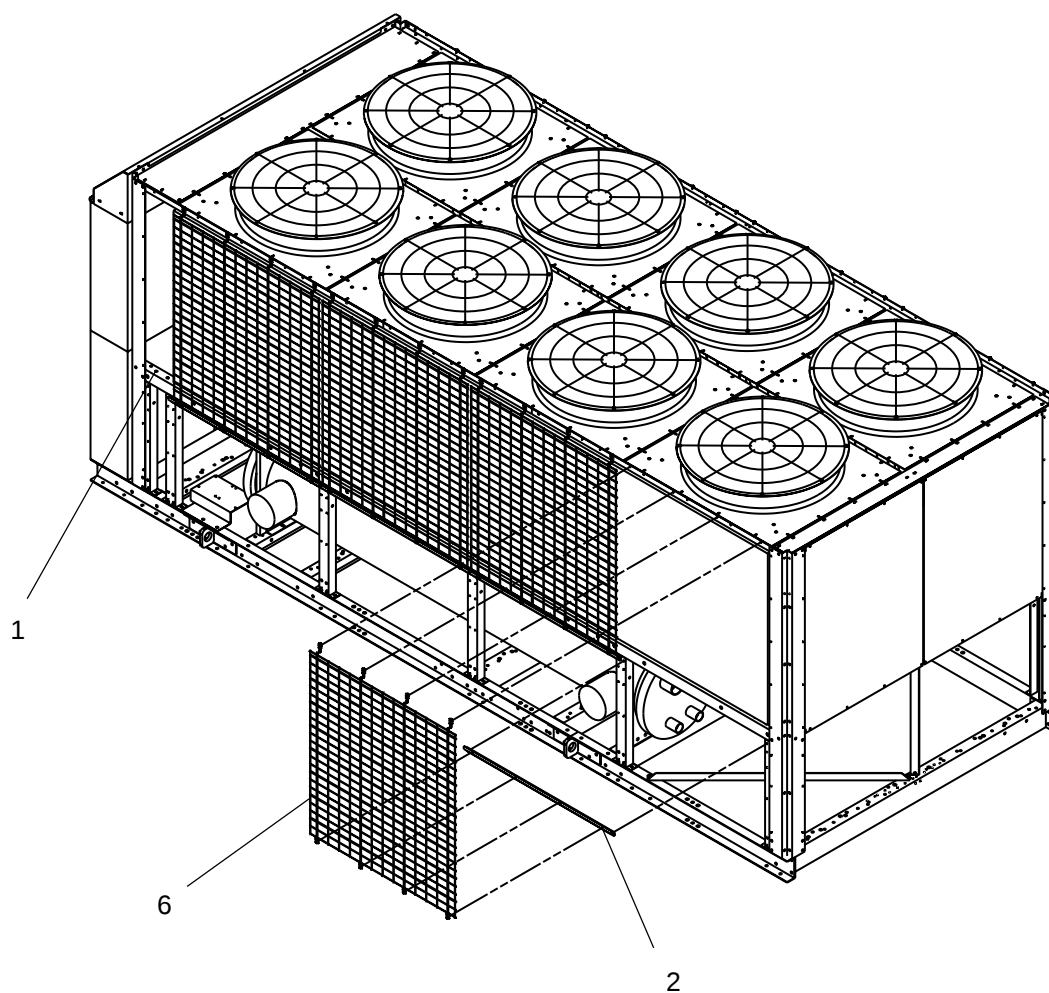
WIRE ENCLOSURE PARTS BREAKDOWN

TABLE 24 – 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 14 required for YCAS0398 AND YCAS0418

** Quantity of 18 required for YCAS0398 AND YCAS0418



29569-160-1

FIG. 27 – WIRE ENCLOSURE - 16'-0" KIT IS SHOWN.

WIRE ENCLOSURE PARTS BREAKDOWN - CONT'D

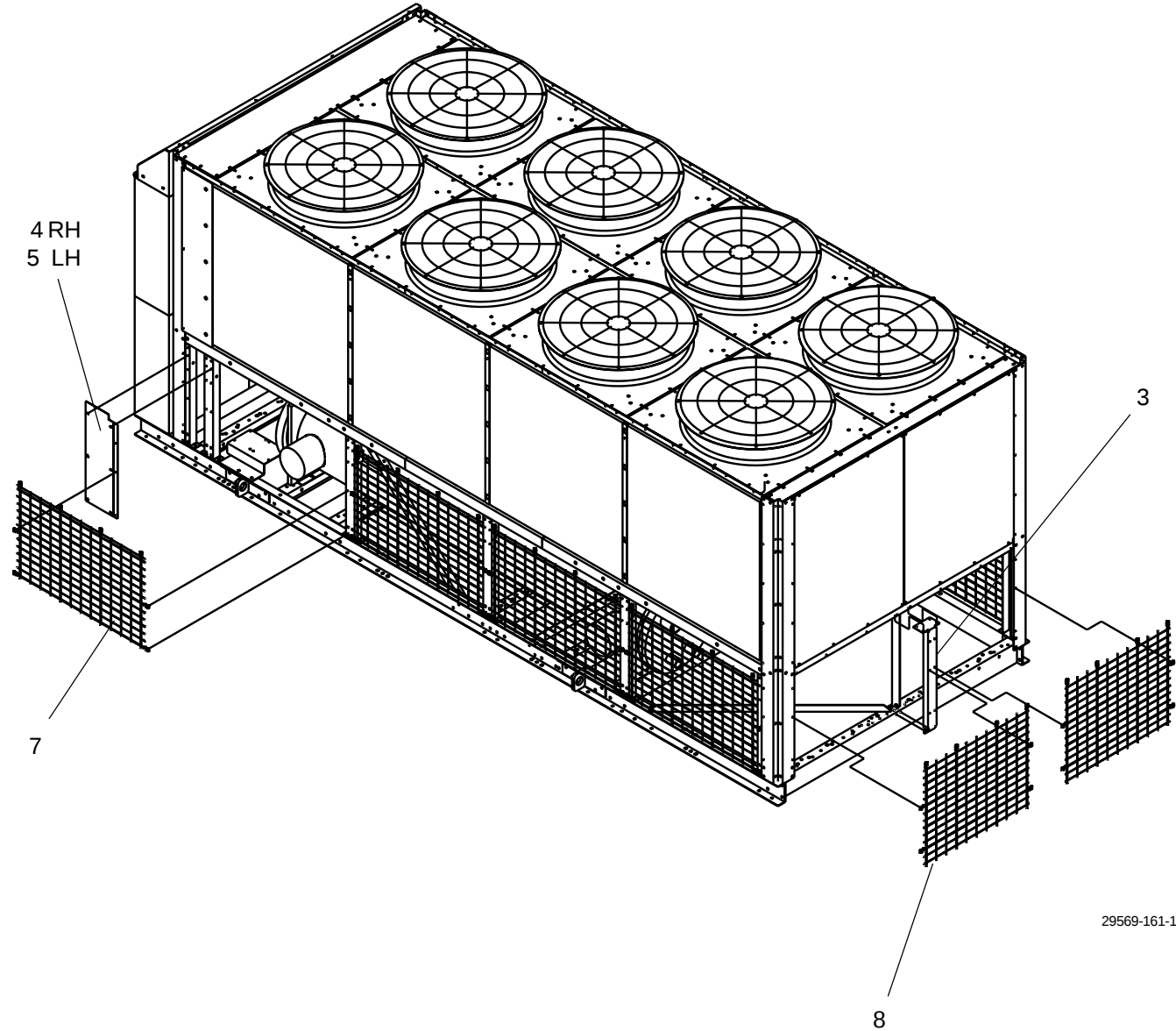


FIG. 28 – WIRE ENCLOSURE - CONT'D - 16'-0"KIT IS SHOWN.

LOUVERED ENCLOSURE PARTS BREAKDOWN

TABLE 25 – 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	14**	PANEL LOUVER, LOWER	075-29581-000
7	2	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 YCAS0398 AND YCAS0418

** Quantity is 16 for the YCAS0398 AND YCAS0418

*** Quantity is 14 for the YCAS0398 AND YCAS0418

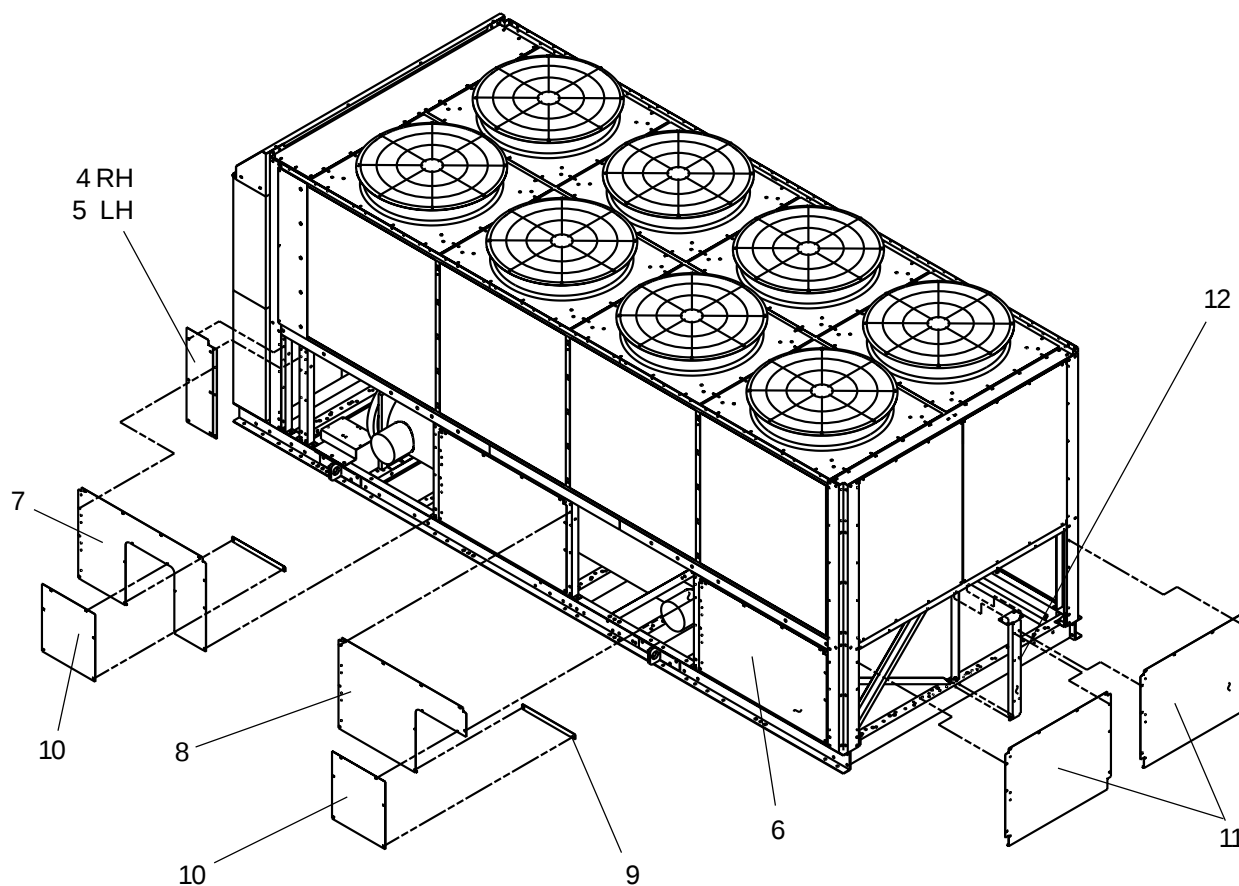
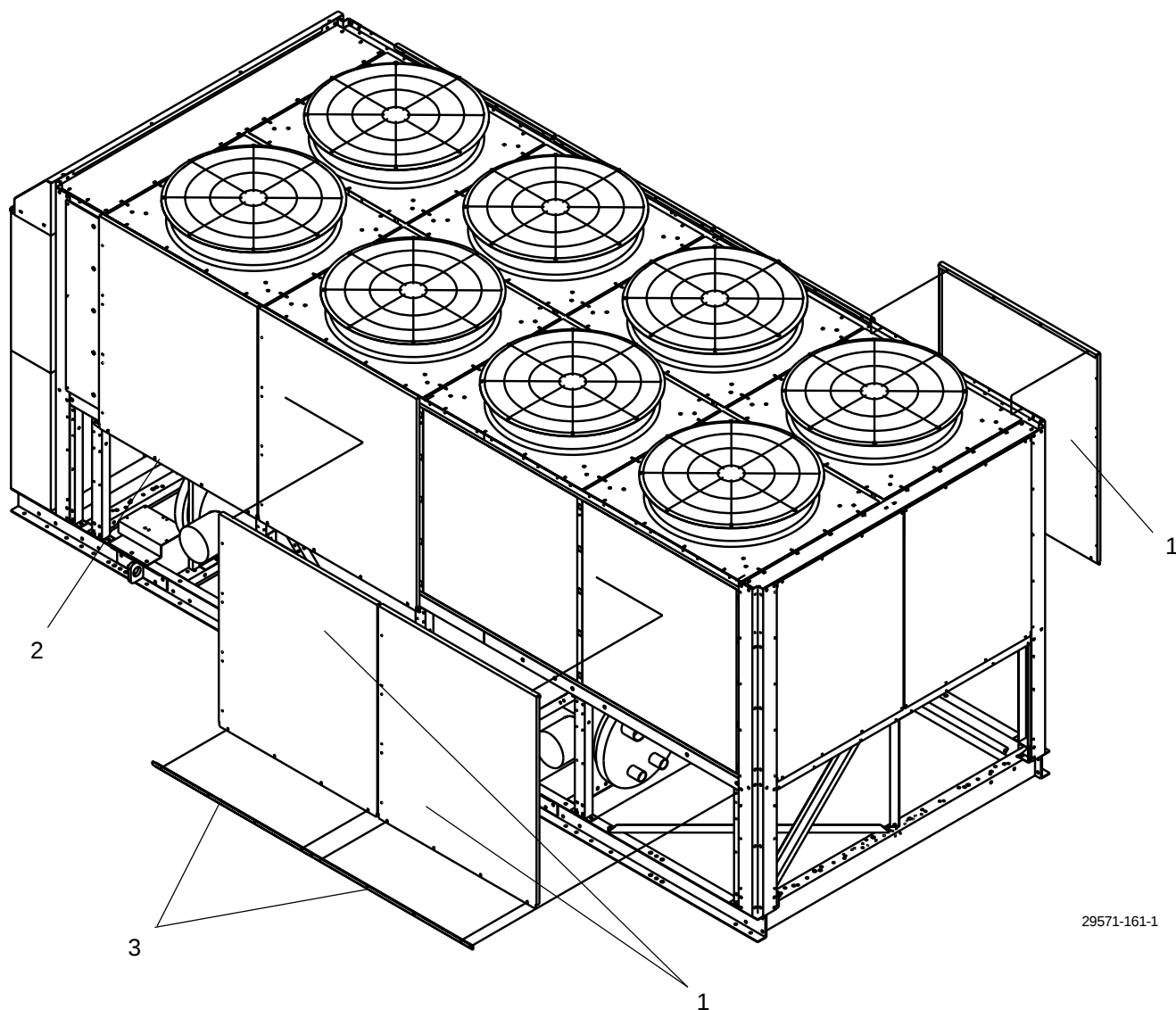


FIG. 29 – LOUVERED ENCLOSURE - 16'-0" KIT IS SHOWN.

29571-161-1

LOUVERED ENCLOSURE PARTS BREAKDOWN - CONT'D



29571-161-1

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

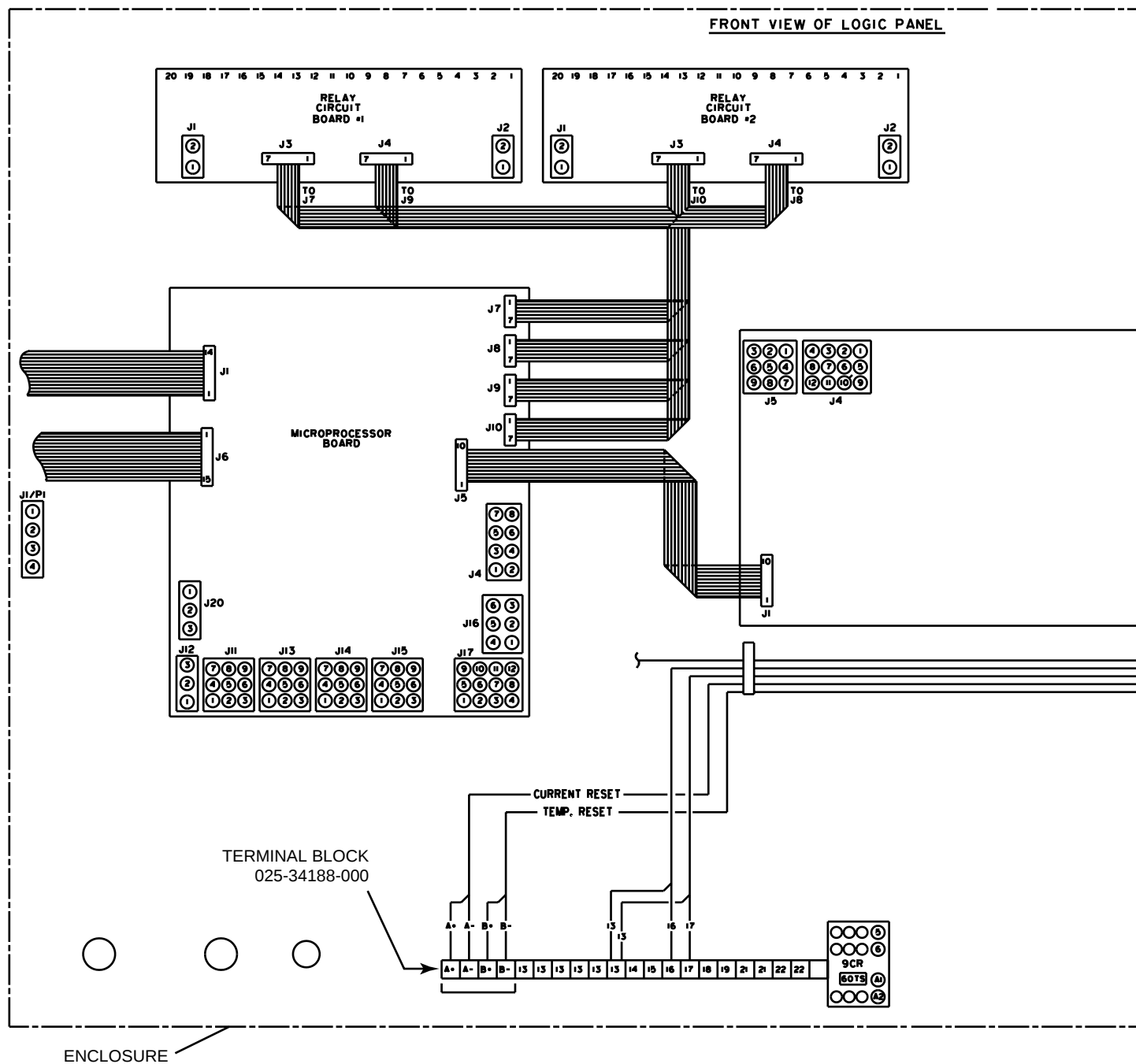


FIG. 31 – REMOTE CURRENT/TEMPERATURE RESET WIRING KIT

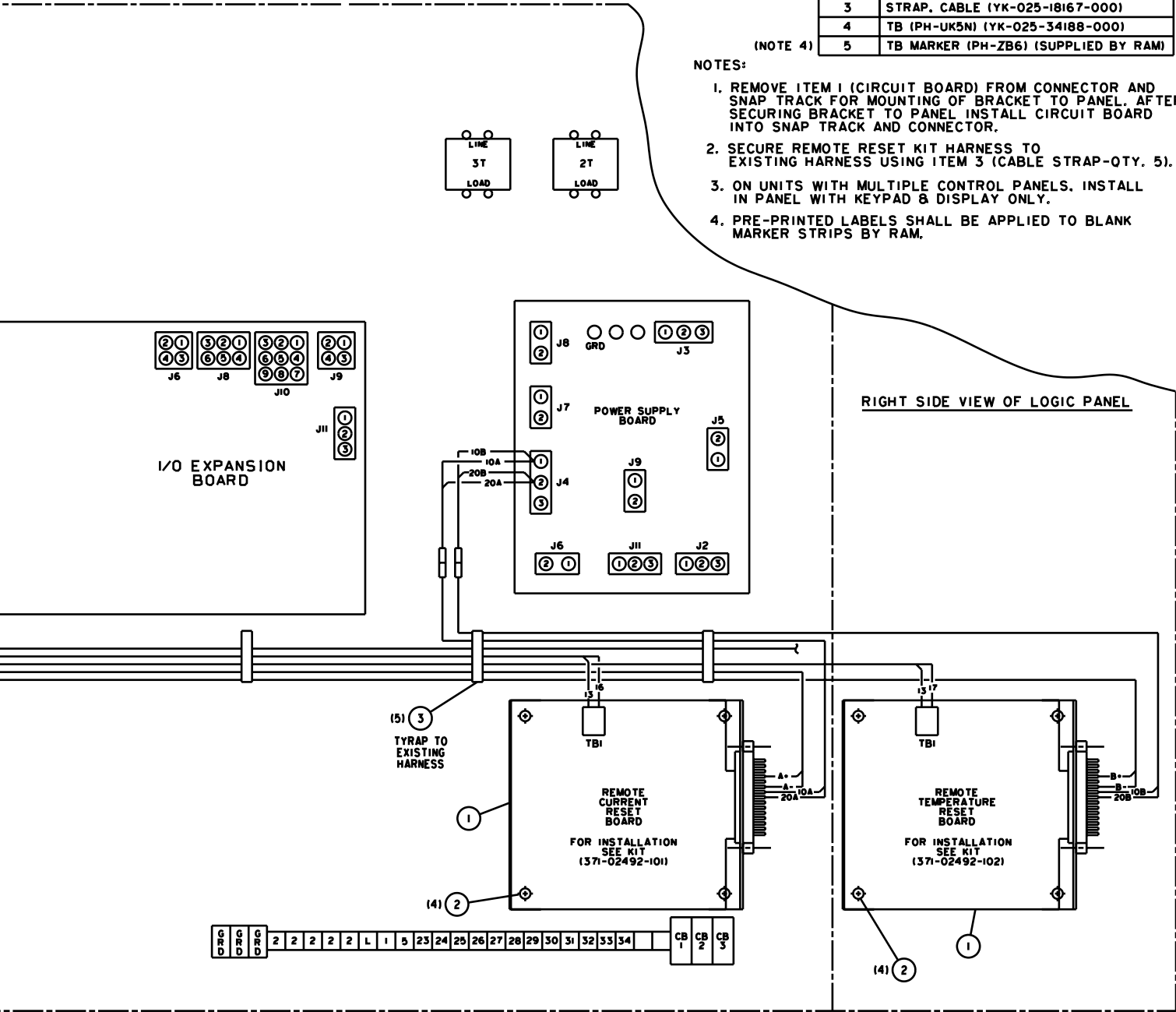
REMOTE CURRENT/TEMPERATURE RESET WIRING

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)

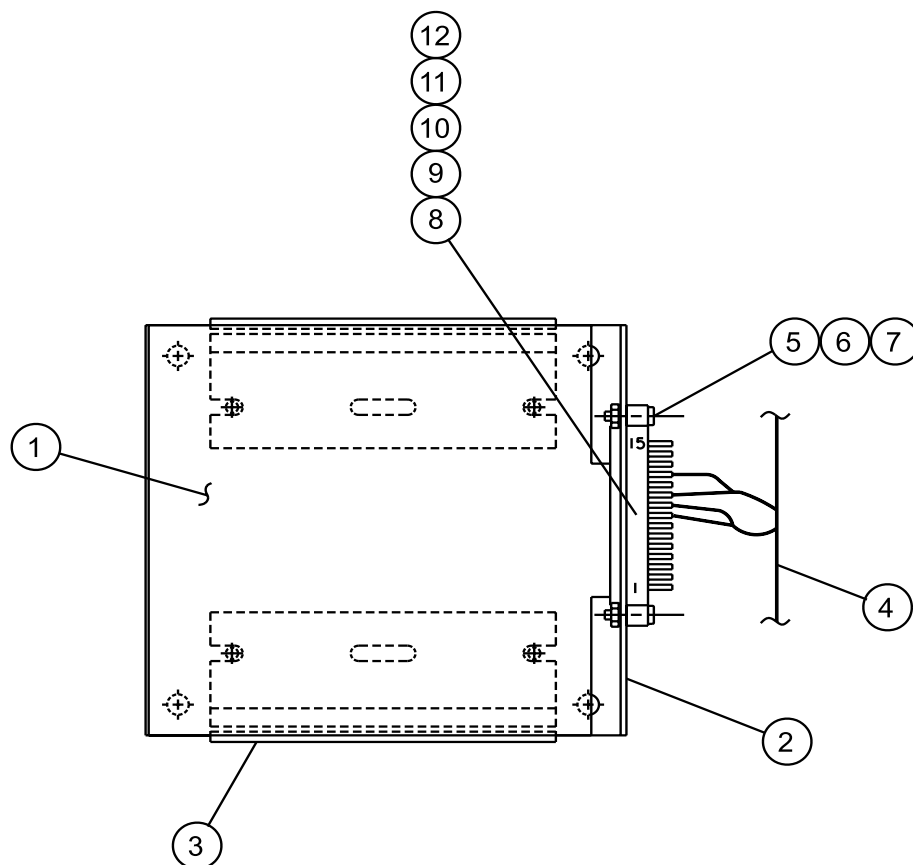
(NOTE 4)

- 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. 32 – REMOTE CURRENT/TEMPERATURE RESET COMPONENTS

TABLE 26 – REMOTE CURRENT (371-02492-101) OR TEMPERATURE (371-02492-102) RESET KIT

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 27 for individual wire harness parts

TABLE 27 – 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

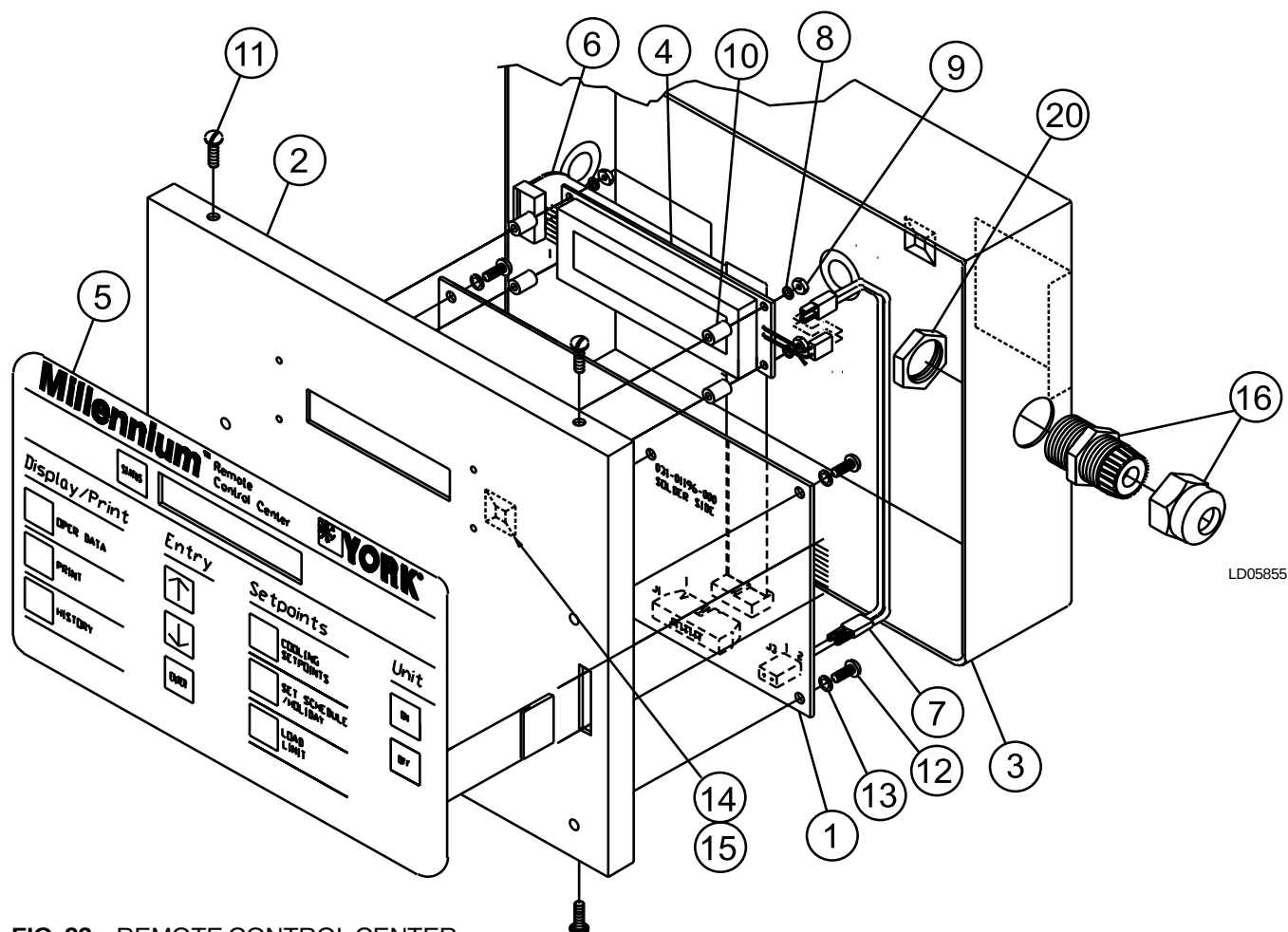


FIG. 33 – REMOTE CONTROL CENTER

TABLE 28 – REMOTE CONTROL CENTER PARTS

371-02485-105 (50 HZ)			
REF. NUMBER	QUANTITY	DESCRIPTION	PART NUMBER
1	1	CONTROL, MICROBOARD	031-01196-000
2	1	COVER, REMOTE CONTROL	371-02485-311
3	1	BASE, REMOTE CONTROL	071-02485-320
4	1	DISPLAY, LCD	031-01110-000
5	1	SWITCH, KEYPAD	024-30930-000
6	1	RIBBON CABLE	071-01289-211
7	1	WIRE CABLE	071-01289-212
10	4	SPACER, NYLON 1/4 OD X 7/16 LG.	021-17575-000
11	4	SCREW TAP THD. FORM TYPE AB	021-14150-000
14	3	CABLE TIE MOUNT	025-25155-000
15	5	CABLE TIE	025-18167-000
16	1	CABLE FITTING	025-31732-000
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

TABLE 29 – 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, Item 1	Fan Motor	See Table 4 and 5
Page 8, Item 2	Fan Blade	See Table 4 and 5
Page 14, Item 1	Valve, Thermal Expansion (Cooler)	See Table 6
Page 14, Item 2	Valve, Thermal Expansion (Econom.)	See Table 6
Page 14, Item 5	Core, Dehydrator	026-18328-000
Page 14, 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)

All parts should be purchased from your local YORK Sales And Service
Center shown on inside back cover.

YORK SERVICE OFFICES (North America)

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YORK International Corp.
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Toronto, Ontario

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(514) 387-6000

YORK Applied Systems field office listing subject to change.
See us on the web at <http://www.york.com> for additional information.

