



**MILLENNIUM[®]
AIR-COOLED SCREW CHILLER
STYLE "F"**

RENEWAL PARTS LIST

New Release

Form 201.18-RP14 (202)

MODELS YCAS0358, 0398 AND YCAS0418



28971AR



ALLY

**60 HERTZ
R-407C
OPTIMIZED**



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

TABLE OF CONTENTS

	<u>PAGE</u>
UNIT NOMENCLATURE NAMEPLATE ENGINEERING DATA	4
EVAPORATOR	
EVAPORATOR COMPONENTS	5
CONDENSER	
CONDENSER COIL COMPONENTS	6
FANS	
FAN COMPONENTS	8
PIPING	
REFRIGERANT AND OIL PIPING COMPONENTS	10
RELIEF VALVES AND HP CUTOUT SWITCH	14
COMPRESSOR	
COMPRESSOR MODEL NOMENCLATURE	16
MODEL DXS COMPRESSOR PART NUMBERS	17
DXS COMPRESSOR COMPONENTS	18
DXS COMPRESSOR COMPONENTS / RELATED PARTS	19
COMPRESSOR AND CONTROL COMPONENTS	25
CONTROL PANEL / TRANSDUCERS / TEMP SENSORS	
CONTROL PANEL COMPONENTS	26
SENSOR HARNESS	29
TRANSDUCERS, TEMP SENSORS AND WIRE HARNESS CONNECTOR	33
TRANSDUCERS AND TEMP SENSORS	34
POWER PANEL	
POWER PANEL - ACROSS THE LINE	36
POWER PANEL COMPONENTS - ACROSS THE LINE	38
POWER PANEL - WYE DELTA	41
POWER PANEL COMPONENTS - WYE DELTA	43
4 FAN CONTACTOR PANEL COMPONENTS	44
OPTION PANEL	
OPTION AND POWER PANEL CONFIGURATION	46
OPTION PANEL IDENTIFIERS	47
OPTION PANEL COMPONENTS	49

TABLE OF CONTENTS - CONT'D

	<u>PAGE</u>
CHILLER OPTIONS	
YCAS CHILLER OPTIONS - KITS AND SPARE PARTS	54
ENCLOSURE KIT OPTIONS - FULL UNIT	55
WIRE ENCLOSURE TOP SECTION PARTS BREAKDOWN	56
LOUVERED ENCLOSURE TOP SECTION PARTS BREAKDOWN	58
REMOTE CURRENT TEMPERATURE RESET WIRING	60
CURRENT/TEMPERATURE RESET PARTS BREAKDOWN	62
REMOTE CONTROL CENTER	63
RECOMMENDED SPARE PARTS	64

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	1	7		F	
	C							E		2	8		A	
		A						K		4	0			
			S					H		4	6			
										5	8			
												Y		
												X		

: YORK
: Chiller
: Air Cooled
S: Screw

Tons
0358
0398
0418

S Standard Unit
E High Efficiency
K Extended Range
H High Static

B :R-407C

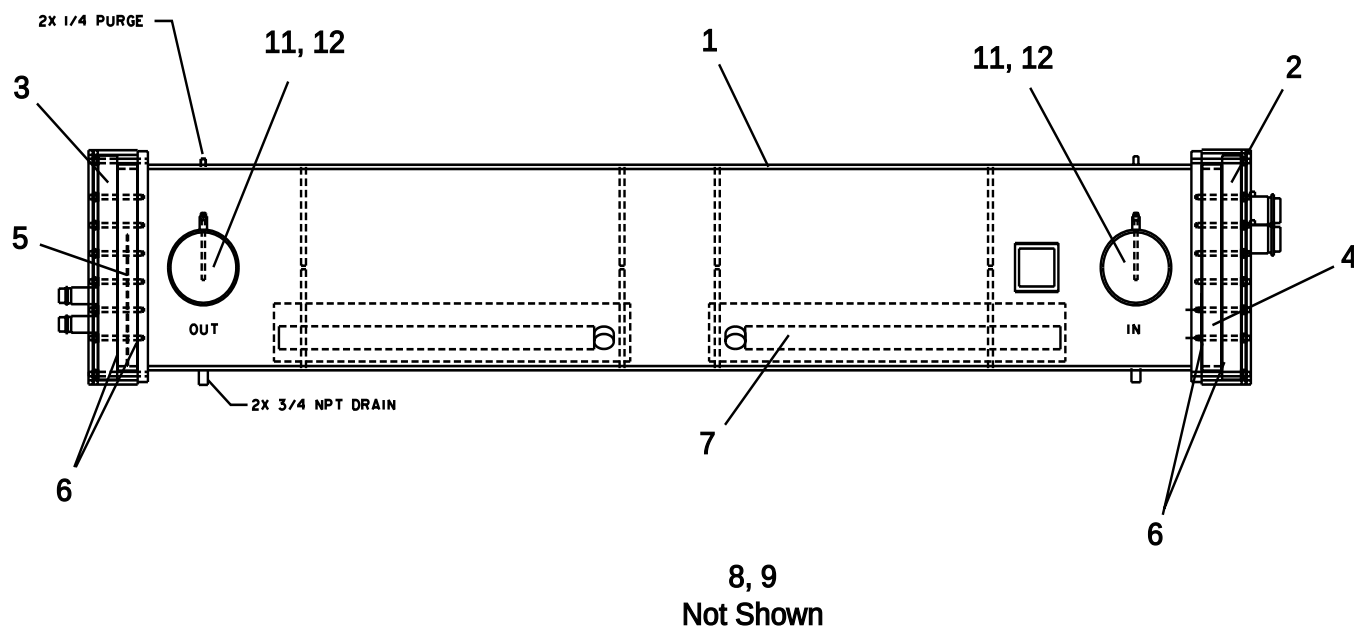
1 7 :200 / 3/ 60
2 8 :230 / 3 /60
4 0 :380 / 3/ 60
4 6 :460 / 3/ 60
5 8 :575 / 3/ 60
Y :Wye (Star) Delta
X :Across the Line

F :Design Series F
A :Engineering Change or PIN Level

[illegible]

4

EVAPORATOR COMPONENTS



35772-1

FIG. 1 – EVAPORATOR COMPONENTS

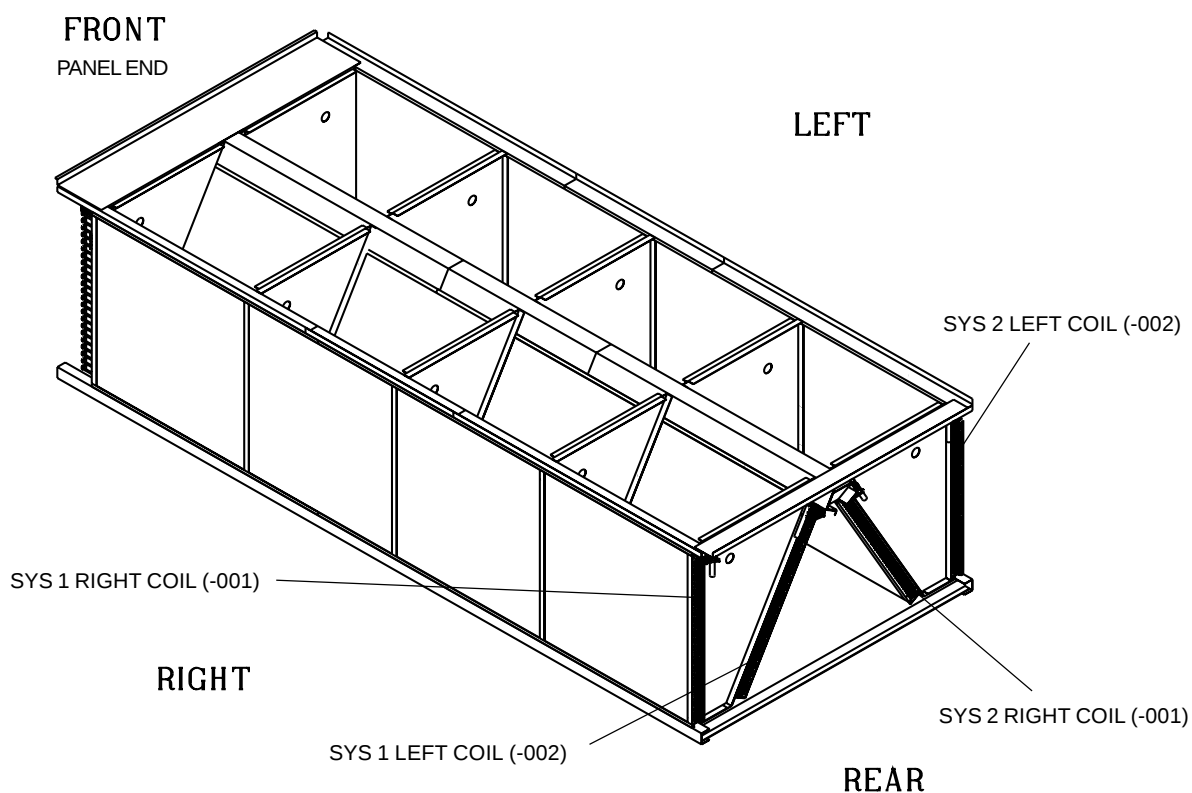
- 150# COOLER FLOW SWITCH 024-26116-000 (PIN 38 in Model No. is X; see page 4)
- 300# COOLER FLOW SWITCH 024-12144-000 (PIN 38 in Model No. is 3; see page 4)

TABLE 1 – EVAPORATOR COMPONENTS

ITEM NUMBER	QTY. PER UNIT	DESCRIPTION	DWP	UNIT MODEL YCAS0358 THRU YCAS0418
1	1	Cooler, less Heater & Insulation (Items 2 thru 6)	150	375-45153-000
			300	375-45154-000
2	1	Head, Connection End	ALL	375-44260-000
3	1	Head, Back End	ALL	075-44259-000
4	1	Baffle, Pass, Conn. End	ALL	375-35162-000
5	1	Baffle, Pass, Back End	ALL	075-35153-000
6 ^s	8	Gasket, Pass Baffle and Head	ALL	075-35163-000
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	375-35160-000

^s = Recommended Spare Parts

CONDENSOR 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 – YCAS0358 AND YCAS0398

DESCRIPTION	COIL LOCATION	UNIT MODEL			
		YCAS0358		YCAS0398	
		FRONT (16'-0")	REAR (16'-0")	FRONT (20'-0")	REAR (16'-0")
COILS, CONDENSER, ALUMINUM	Right	375-29501-001	375-29501-001	375-25578-001	375-29501-001
	Left	375-29501-002	375-29501-002	375-25578-002	375-29501-002
COILS, CONDENSER, BLACKFIN	Right	375-23770-001	375-23770-001	375-23771-001	375-23770-001
	Left	375-23770-002	375-23770-002	375-23771-002	375-23770-002
COILS, CONDENSER, PHENOLIC	Right	375-29010-001	375-29010-001	375-29009-001	375-29010-001
	Left	375-29010-002	375-29010-002	375-29009-002	375-29010-002
COILS, CONDENSER, COPPER	Right	375-23776-001	375-23776-001	375-23777-001	375-23776-001
	Left	375-23776-002	375-23776-002	375-23777-002	375-23776-002

NOTES: Coil Assemblies are complete with headers.

CONDENSER COIL COMPONENTS - CONT'D

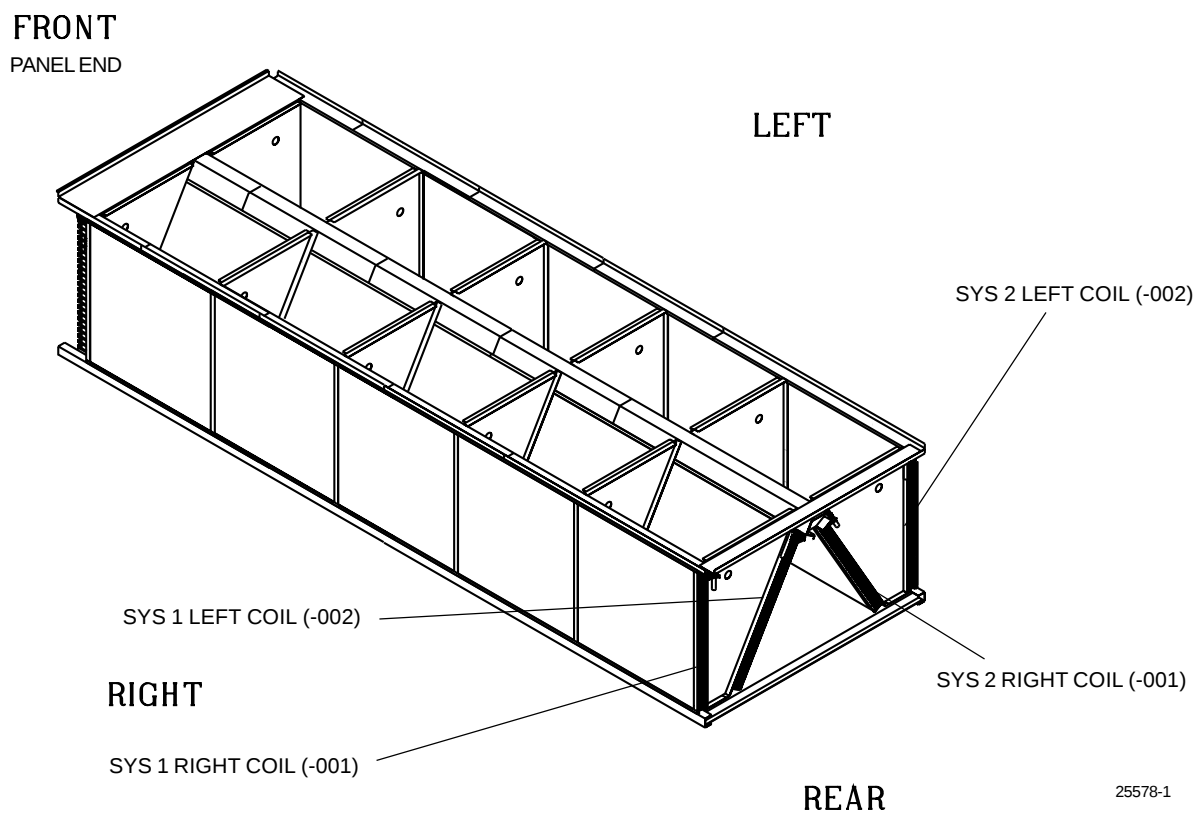


FIG. 3 – CONDENSER COIL LAYOUT - 20'-0" SHOWN

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

TABLE 3 – CONDENSER COIL COMPONENTS – YCAS0418

DESCRIPTION	COIL LOCATION	UNIT MODEL	
		YCAS0418	
		FRONT (20'-0")	REAR (16'-0")
COILS, CONDENSER, ALUMINUM	Right	375-25578-001	375-29501-001
	Left	375-25578-002	375-29501-002
COILS, CONDENSER, BLACKFIN	Right	375-23771-001	375-29770-001
	Left	375-23771-002	375-29770-002
COILS, CONDENSER, PHENOLIC	Right	375-29009-001	375-29010-001
	Left	375-29009-002	375-29010-002
COILS, CONDENSER, COPPER	Right	375-23777-001	375-23776-001
	Left	375-23777-002	375-23776-002

NOTES: Coil Assemblies are complete with headers.

FAN COMPONENTS

FANS

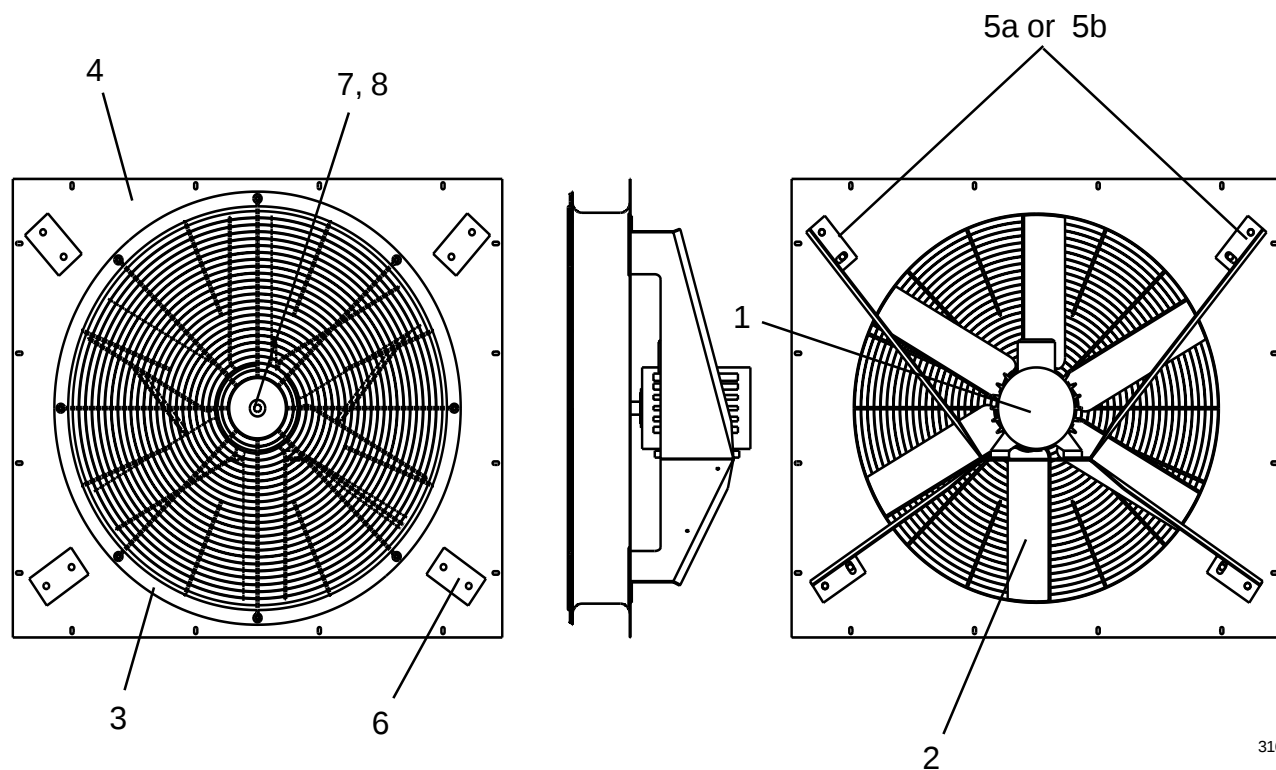


FIG. 4 – FAN COMPONENTS

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

TABLE 4 – 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
1 ^S	Motor	-40	024-25179-001	024-24604-001
	Standard:2HP, 50LBS	-46	024-25179-001	024-24604-001
	High Static:5HP, 127LBS	-58	024-25179-001	024-24758-000
2 ^S	Blade	All	026-37578-000 21°	026-37581-000 30°
3	Guard	All	026-35605-001	026-35605-000
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.

This page left blank intentionally

REFRIGERANT AND OIL PIPING COMPONENTS

CHILLER MODEL YCAS – STYLE F

TABLE 5 – REFRIGERANT PIPING AND OIL PIPING COMPONENTS
(SEE FIGS. 5, 6 AND 7, PAGES 11, 12 AND 13)

ITEM NO.	QTY PER UNIT	DESCRIPTION	SYSTEM	YCAS0358	YCAS0398	YCAS0418
1 ^s	4	Valve, Thermal Exp.- Cooler	All	025-34559-010	025-34589-010	025-34589-010
2	2	Valve, Solenoid, Liq. Line	1 & 2	025-33704	025-33704	025-33281
	2		3 & 4	025-33704	025-33281	025-33281
3	2	Dehydrator, Body (Replaceable Core)	1 & 2	026-21055	026-21055	026-16960
	2		3 & 4	026-21055	026-16960	026-16960
4 ^s	8	Dehydrator Core	All	026-37540	026-37540	026-37540
5	2	Moisture Indicator, Body	1 & 2	026-37545	026-37545	026-37546
	2		3 & 4	026-37545	026-37546	026-37546
6	4	Moisture Indicator, Sight Glass Cap Assembly	All	026-37547	026-37547	026-37547
7	2	Valve, Liquid Stop	1 & 2	022-09778	022-09778	022-09779
	2		3 & 4	022-09778	022-09779	022-09779
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

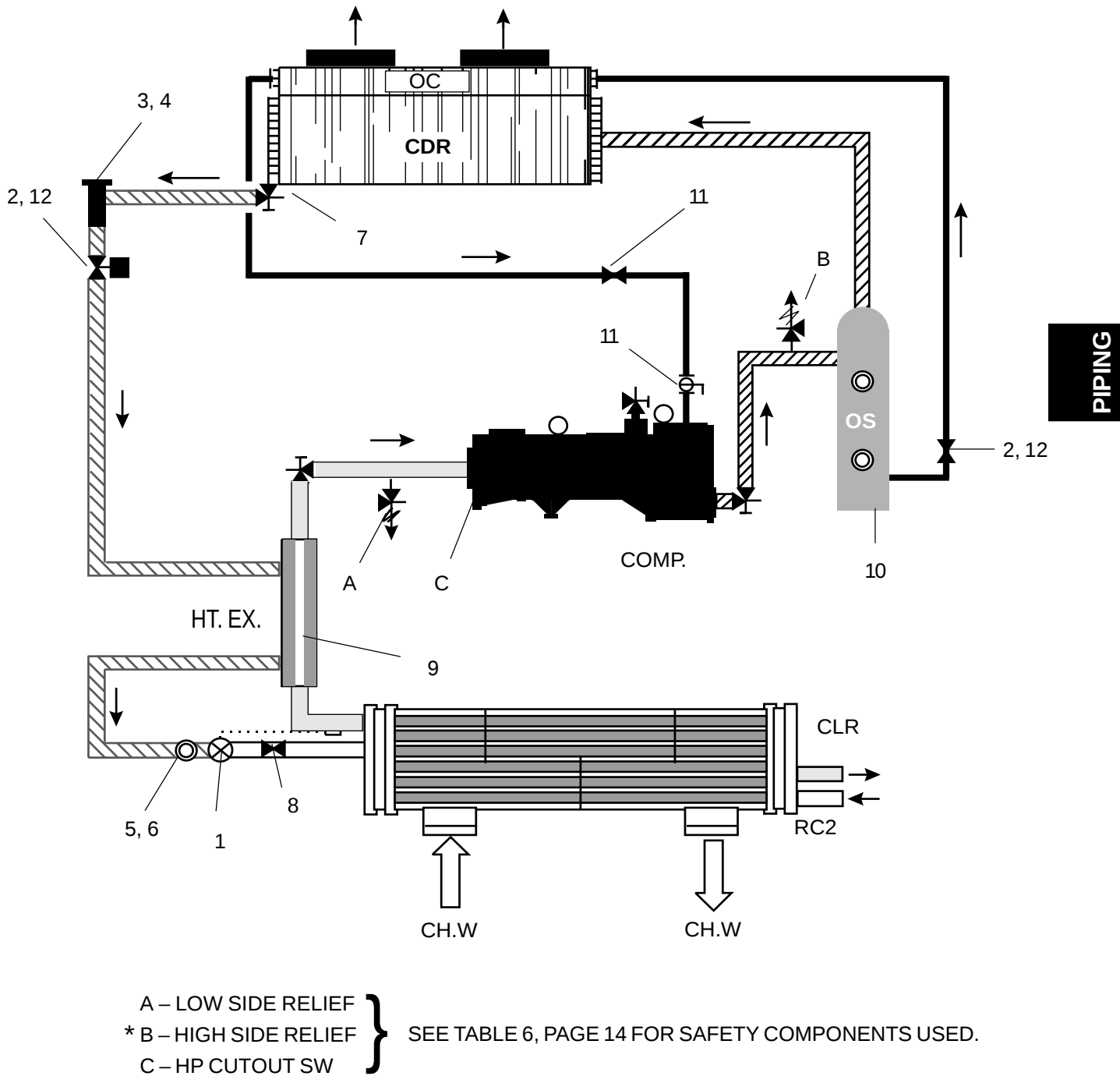
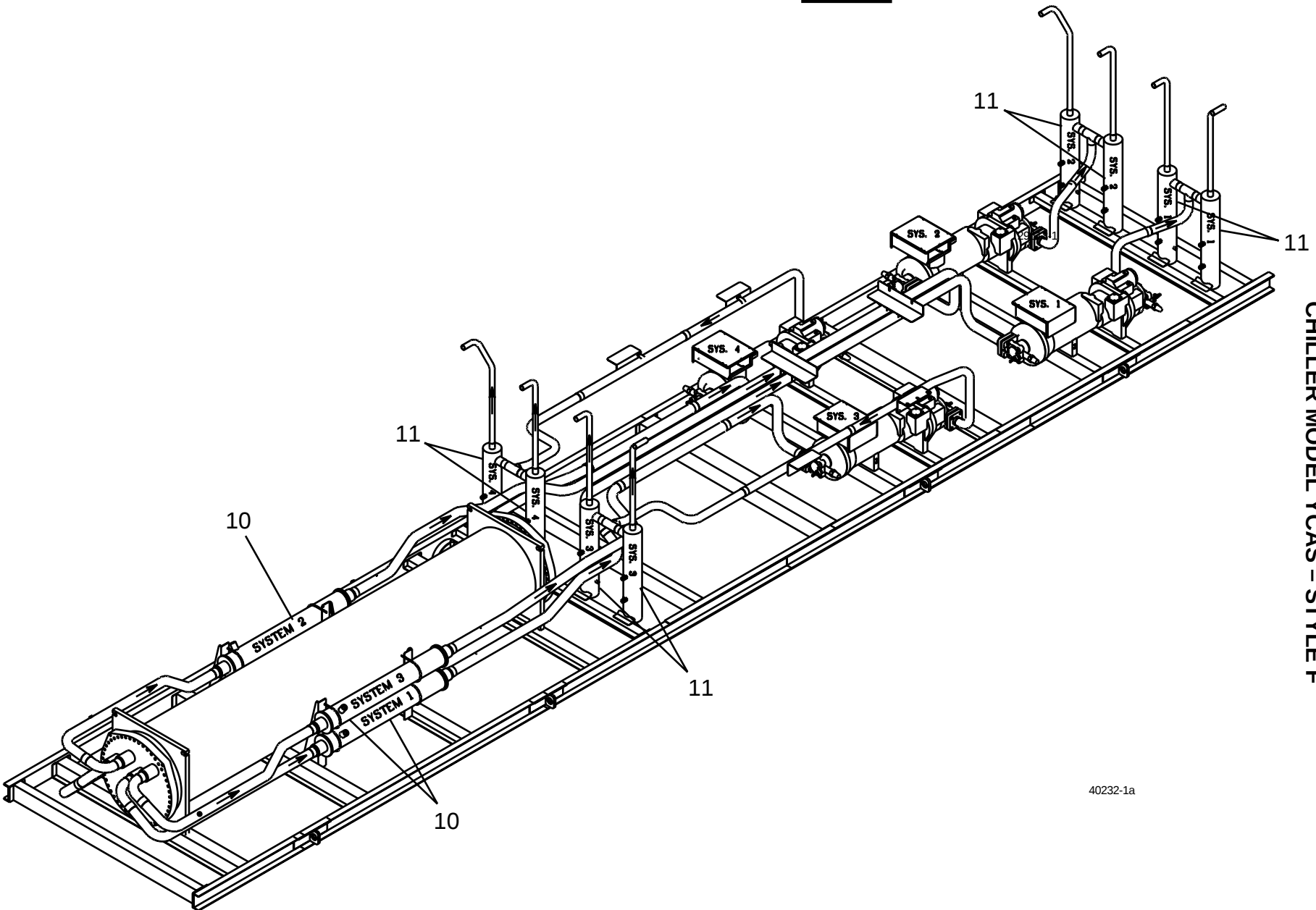


FIG. 5 – REFRIGERANT AND OIL PIPING LAYOUT (REF. TABLE 5, PAGE 10)

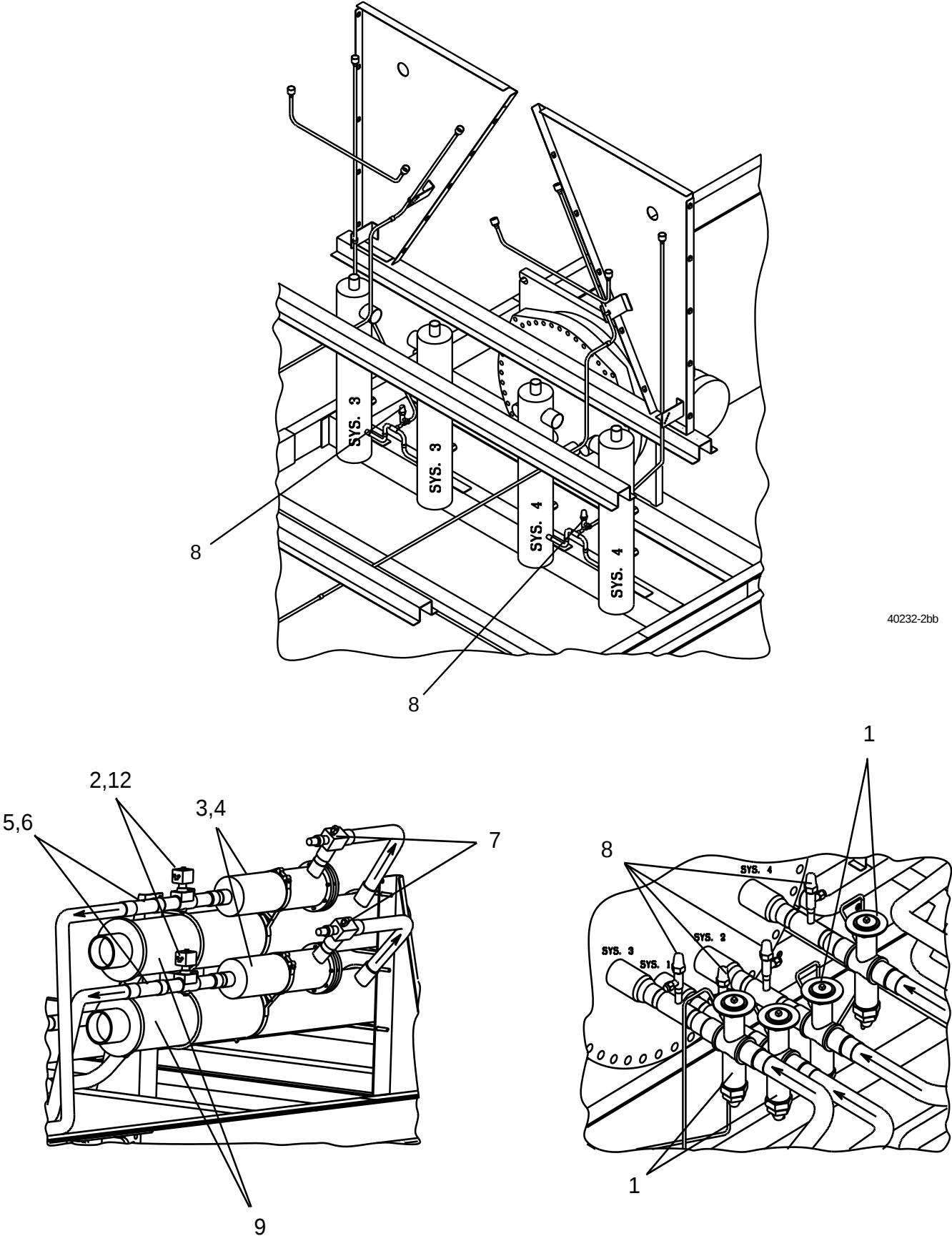
REFRIGERANT AND OIL PIPING COMPONENTS - CONT'D
CHILLER MODEL YCAS - STYLE F



40232-1a

FIG. 6 – REFRIGERANT AND OIL PIPING COMPONENTS (REF. TABLE 5, PAGE 10)

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

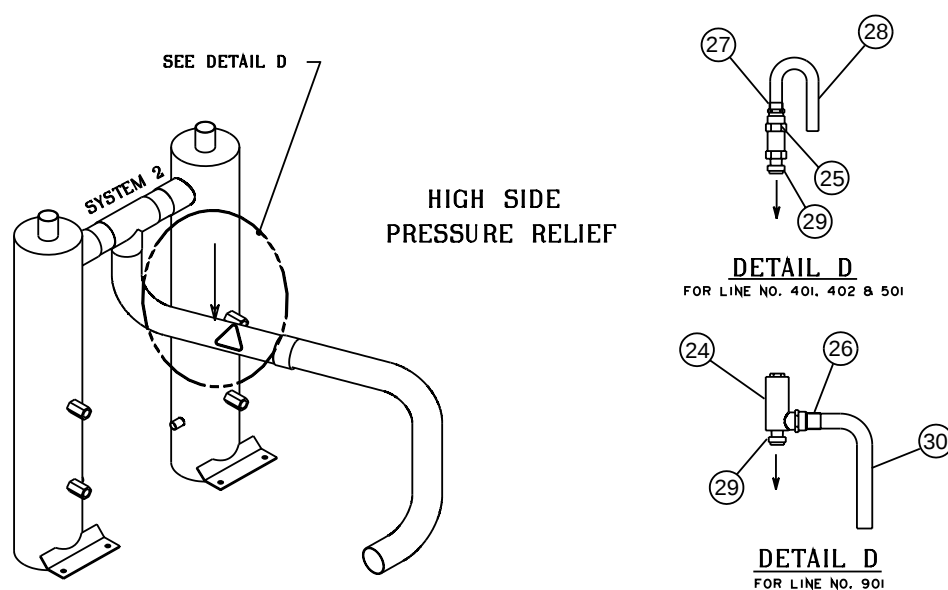


PIPING

40232-2bb

FIG. 7 – REFRIGERANT AND OIL PIPING COMPONENTS (REF. TABLE 5, PAGE 10)

RELIEF VALVES AND HP CUTOUT SWITCH



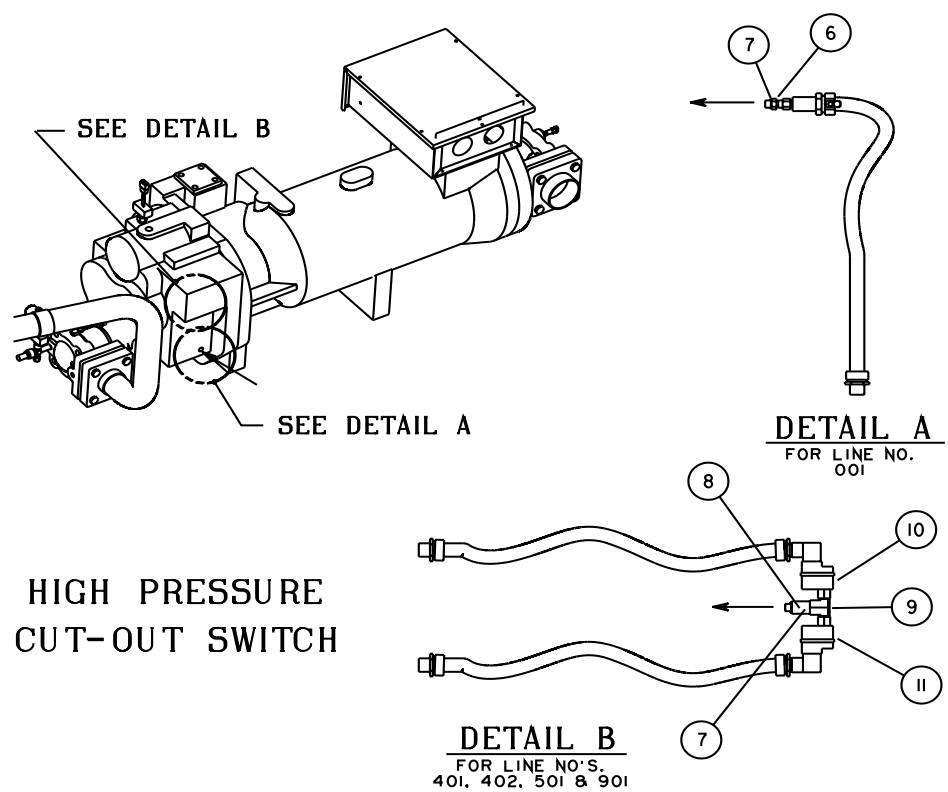
38583-1c

FIG. 8 – RELIEF VALVES AND HP CUTOUT SWITCH (REF. TABLE 6, PAGE 14)

TABLE 6 – RELIEF VALVES AND HP CUTOUT SWITCH (SEE FIG. 8 AND 9, PAGES 14 AND 15)

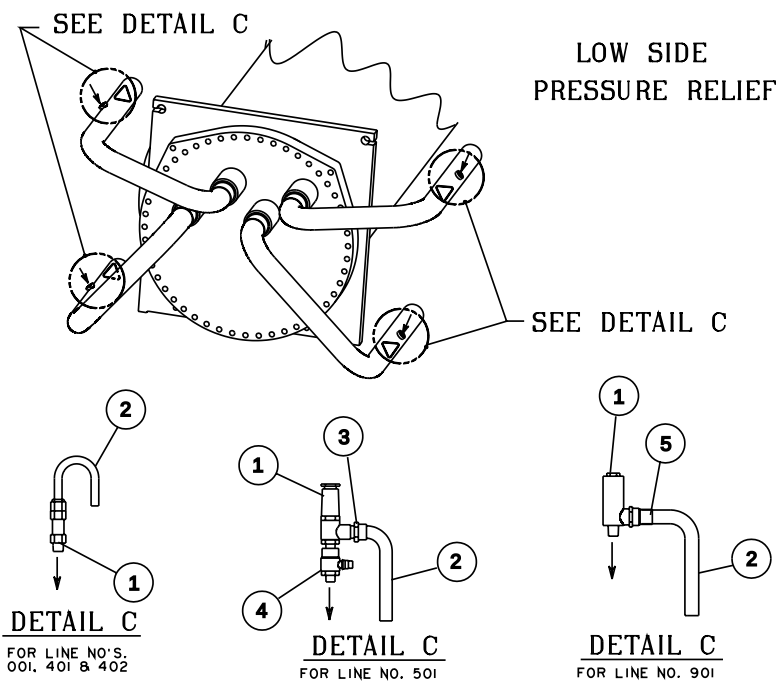
ITEM	QUANTITY /CHILLER	DESCRIPTION	APPLICATION	ALL MODELS
1	4	Low Side Relief Valve, 405 PSIG	-901	022-08863-000
	4	Low Side Relief Valve	-001 & -401	022-10045-000
	4	Low Side Relief Valve	-501	022-09803-000
2	4	Tube for 022-08863-000	-901	075-30993-000
	4	Tube for 022-10045-000	-001 & -401	375-30919-000
	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



HIGH PRESSURE
CUT-OUT SWITCH

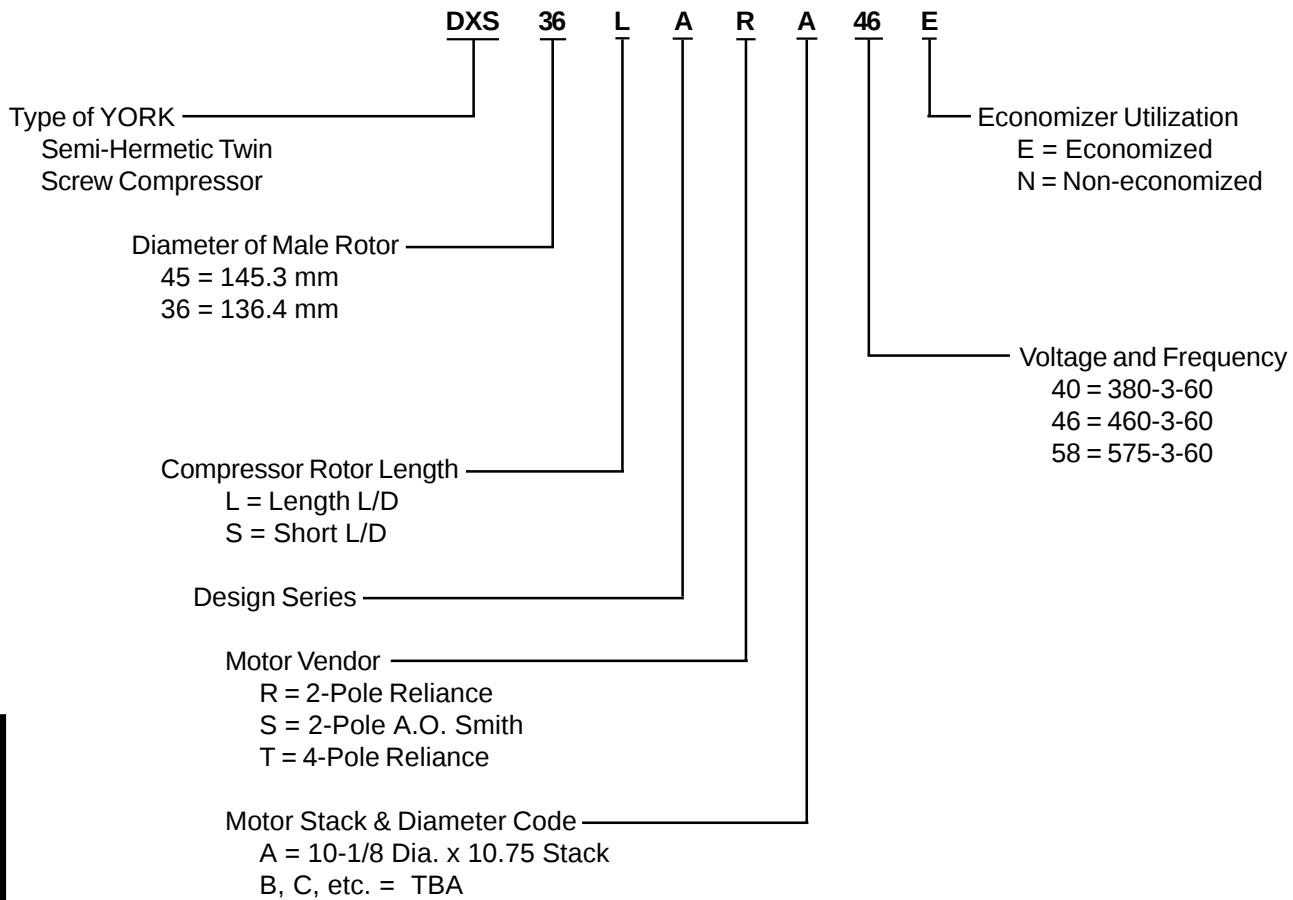
LINE NUMBER APPLICATIONS		
LINE NUMBER	APPLICATION	P.I.N. POS.42
-001	ASME	A
-401	FRENCH	F
-501	ITALIAN	I
-901	GERMAN	T



LOW SIDE
PRESSURE RELIEF

FIG. 9 – RELIEF VALVES AND HP CUTOUT SWITCH (REF. TABLE 6, 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)
475-37845-000 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 7 – MODEL DXS COMPRESSOR PART NUMBERS

MODEL	VOLTAGE CODE	MM SIZE		COMPRESSOR	
		SYS 1	SYS 2	SYSTEM # 1	SYSTEM # 2
YCAS0358	-40	136	136	364-49093-214	364-49093-214
	-46	136	136	364-49093-215	364-49093-215
	-58	136	136	364-49093-216	364-49093-216
YCAS0398	-40	145	145	364-49094-214	364-49094-214
	-46	145	145	364-49094-215	364-49094-215
	-58	145	145	364-49094-216	364-49094-216
YCAS0418	-40	145	145	364-49094-214	364-49094-214
	-46	145	145	364-49094-215	364-49094-215
	-58	145	145	364-49094-216	364-49094-216

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

TABLE 7 (CONT'D) – MODEL DXS COMPRESSOR PART NUMBERS

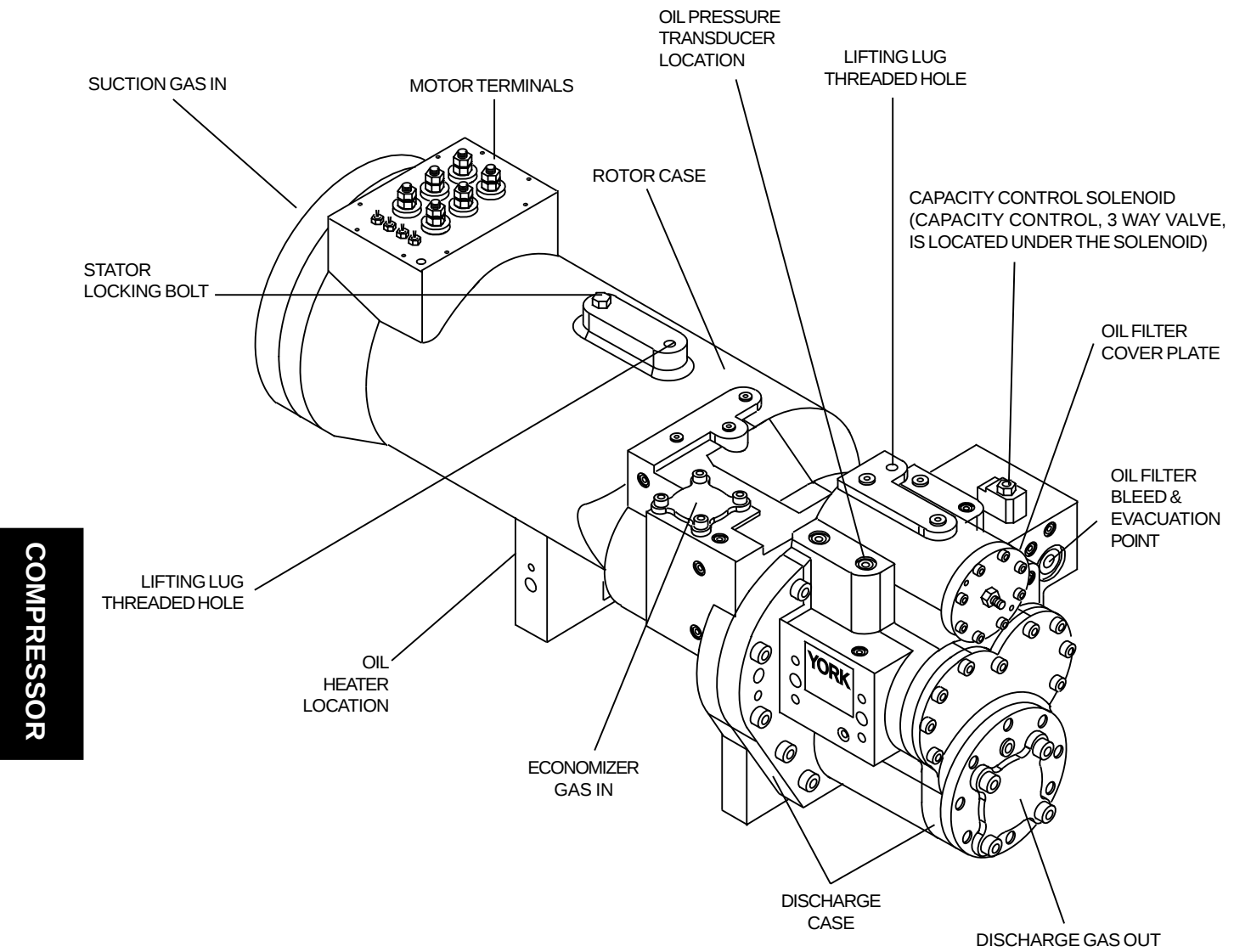
MODEL	VOLTAGE CODE	MM SIZE		COMPRESSOR	
		SYS 3	SYS 4	SYSTEM # 3	SYSTEM # 4
YCAS0358	-40	136	136	364-49093-214	364-49093-214
	-46	136	136	364-49093-215	364-49093-215
	-58	136	136	364-49093-216	364-49093-216
YCAS0398	-40	136	136	364-49093-214	364-49093-214
	-46	136	136	364-49093-215	364-49093-215
	-58	136	136	364-49093-216	364-49093-216
YCAS0418	-40	145	145	364-49094-214	364-49094-214
	-46	145	145	364-49094-215	364-49094-215
	-58	145	145	364-49094-216	364-49094-216

COMPRESSOR

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

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. 10 – DXS COMPRESSOR OUTLINE

DXS COMPRESSOR COMPONENTS / RELATED PARTS

TABLE 8 – COMPRESSOR ASSEMBLY (SEE FIG. 11, 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 Gasket Kit
(Includes gaskets and O-Rings)
464-49737-000 one per compressor

TABLE 8A – COMPRESSOR OIL AND FILTER COMPONENTS
(SEE FIG. 13, PAGE 22)

ITEM NO.	QTY PER COMP	DESCRIPTION	MODEL YCAS0358 - YCAS0418
34 ^S	1	FILTER,OIL	026-35601-000
35 ^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

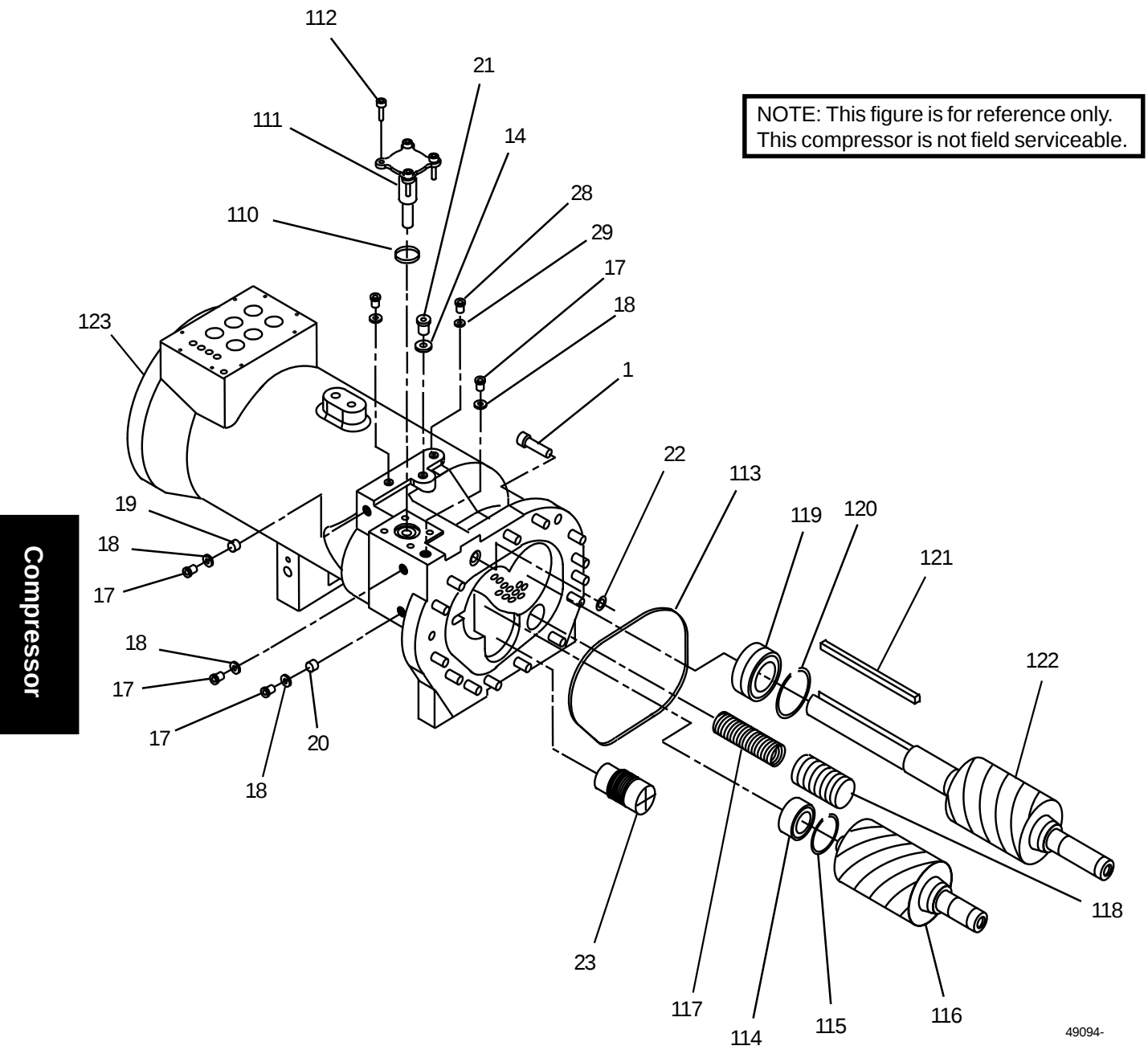
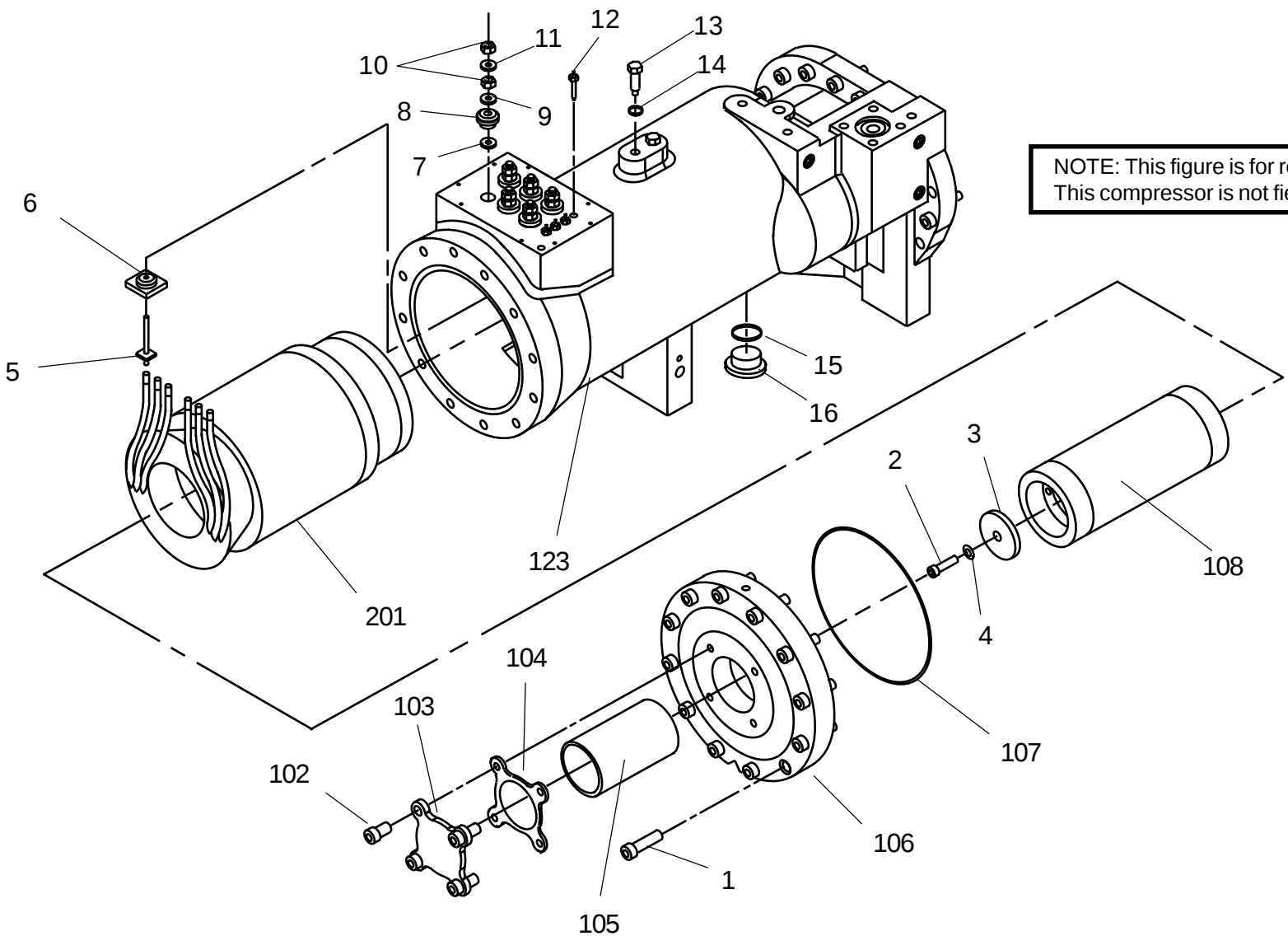


FIG. 11 – DXS COMPRESSOR PARTIAL EXPLODED VIEW (REF. TABLE 8, PAGE 19)

DXS COMPRESSOR COMPONENTS / RELATED PARTS - CONT'D



NOTE: This figure is for reference only.
This compressor is not field serviceable.

LD06199

FIG. 12 – COMPRESSOR COMPONENTS - 145 MM COMPRESSOR SHOWN (REF. TABLE 9, PAGE 23 AND 24)

DXS COMPRESSOR COMPONENTS / RELATED PARTS - CONT'D

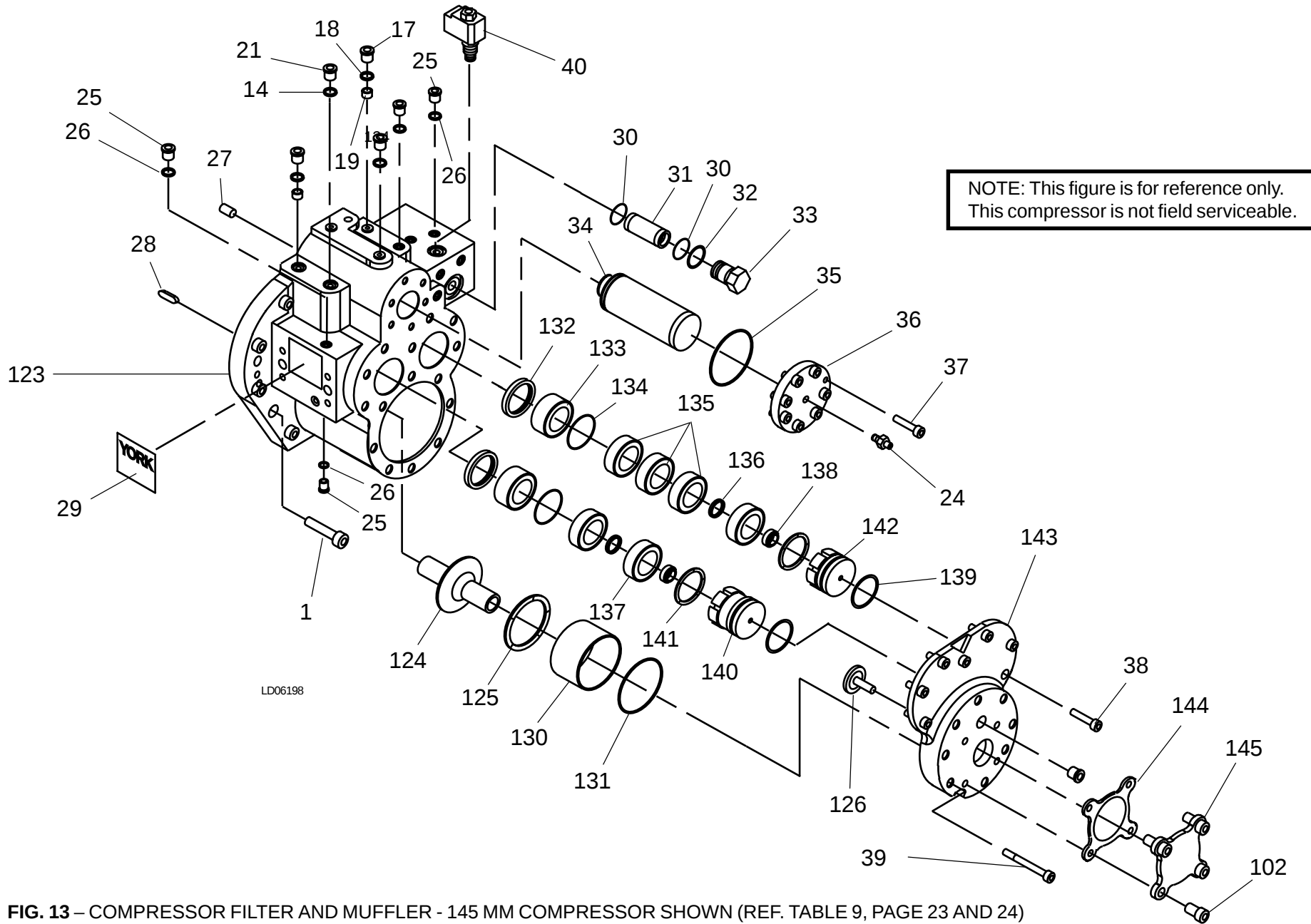


FIG. 13 – COMPRESSOR FILTER AND MUFFLER - 145 MM COMPRESSOR SHOWN (REF. TABLE 9, PAGE 23 AND 24)

DXS COMPRESSOR COMPONENTS / RELATED PARTS - CONT'D

TABLE 9 – COMPRESSOR ASSEMBLY (SEE FIGS. 12 AND 13, 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 9 (CONT'D) – COMPRESSOR ASSEMBLY (SEE FIGS. 12 AND 13, 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 -40	024-30469-004
	MOTOR, STATOR -46	024-30469-005
	MOTOR, STATOR -58	024-30469-006

COMPRESSOR AND CONTROL COMPONENTS

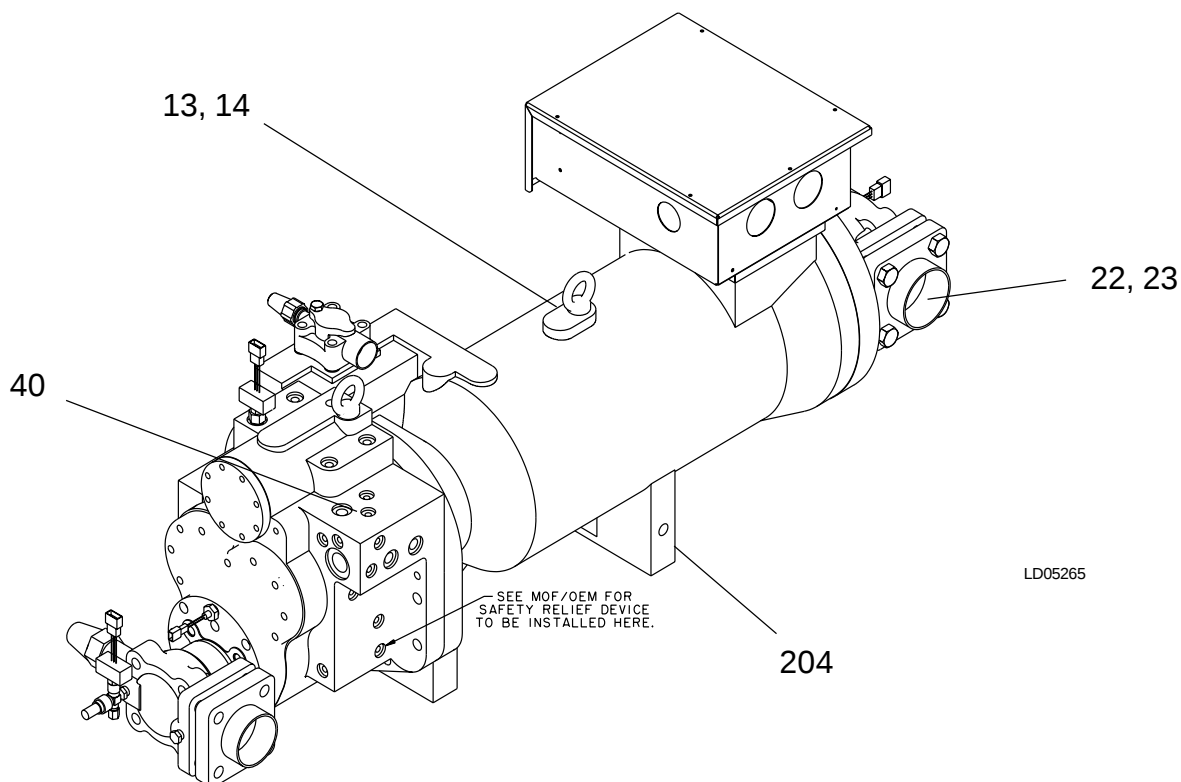
TABLE 10 – COMPRESSOR AND CONTROL COMPONENTS (SEE FIG. 14)

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 11 – COMPRESSOR STOP VALVES AND GASKETS (SEE FIG. 14)

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. 14 – COMPRESSOR AND CONTROL COMPONENTS (REF. TABLES 10 AND 11)

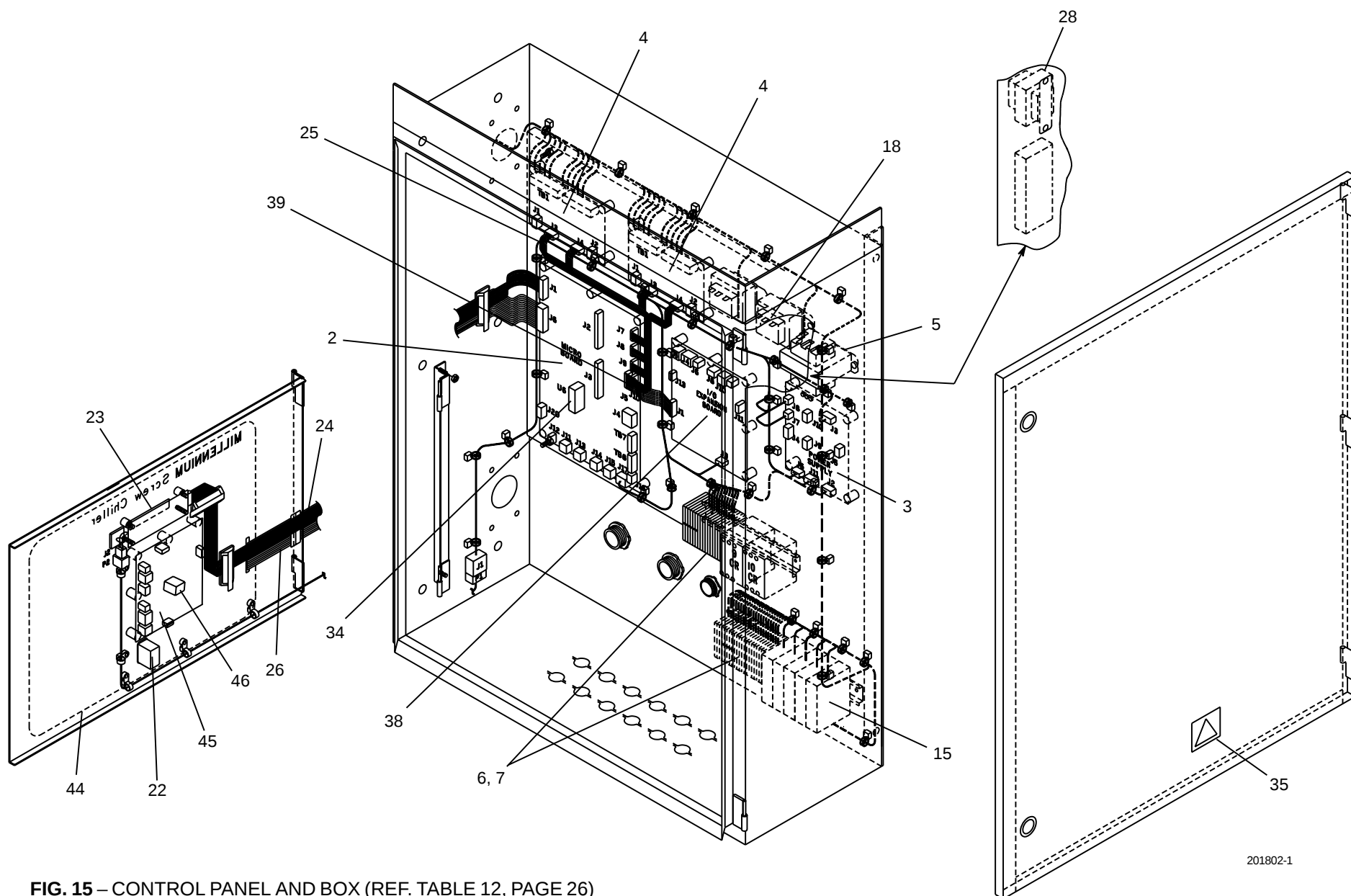
CONTROL PANEL COMPONENTS

TABLE 12 – CONTROL PANEL COMPONENTS (SEE FIGS. 15 AND 16, 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	
2^s	1	MicroBoard	031-01095-002	115V / 24V
3^s	1	Power Supply Board	031-01094-000	
4^s	2	Relay Circuit Board	031-01093-000	
5	1	Transformer, Control 2T	025-27911-000	
6	1	Kit, Terminal Block	025-33760-000	
7	1	Kit, Terminal Block	025-33761-000	
8	2	Catch, Magnetic (Not Shown)	029-20878-000	
9	22	Screw, Tap Thread	021-13789-000	
10	1	Tag, Identification	035-15183-000	208/240 Primary / 24V sec. Used for 110 / 12V
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	115V / 24V
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	See Page 30
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	Use with Plugs 40, 41, 42
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	Use with Plugs 40, 41, 42
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



201802-1

FIG. 15 – CONTROL PANEL AND BOX (REF. TABLE 12, PAGE 26)

CONTROL
PANEL

CONTROL PANEL COMPONENTS - CONT'D

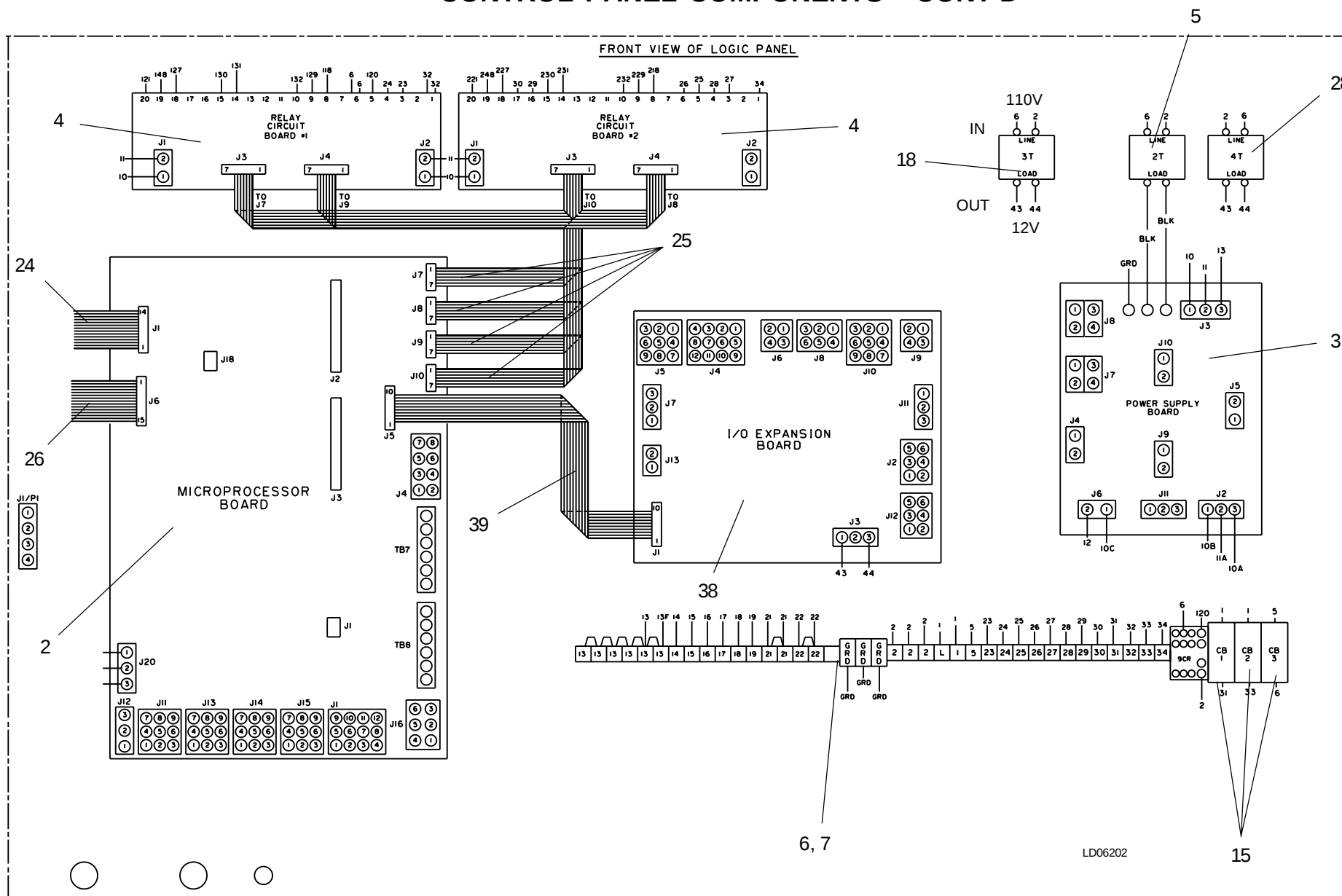


FIG. 16 – CONTROL PANEL CONNECTION DIAGRAM (REF. TABLE 12, PAGE 26)

SENSOR HARNESS

TABLE 13 – SENSOR HARNESS WIRING (SEE FIGS. 18 AND 19, 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		
			RED	8	ENTERING CHILLED WATER	371-02504-237
	121	6	BLK	5		
			DRAIN	2		
			RED	9	OUTSIDE AIR TEMP.	371-02504-238
	122	7	BLK	6		
			DRAIN	3		
			RED	4	SYS #2 DISCH. PRESSURE	371-02504-216
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		
			RED	2	SYS #2 SUCTION TEMP.	371-02504-232
	117	11	BLK	4		
			DRAIN	3		
			RED	4	SYS #1 OIL TEMP.	371-02504-201
I/O P10	100	16	BLK	7		
			DRAIN	3		
			RED	5	SYS #2 OIL TEMP.	371-02504-202
	101	17	BLK	6		
			DRAIN	2		
			RED	2	SYS #1 DISCH. TEMP.	371-02504-233
I/O P8	118	12	BLK	4		
			DRAIN	1		
			RED	5	SYS #2 DISCH. TEMP.	371-02504-234
	119	13	BLK	6		
			DRAIN	3		
			RED (47)	1	SYS #1 SLIDE VALVE	371-02504-253
I/O P2	129	31	BLK (48)	2		
			DRAIN	6		
			RED (49)	1	SYS #2 SLIDE VALVE	371-02504-254
I/O P12	130	32	BLK (50)	2		
			DRAIN	6		
			RED (57)	3	SYS #3 SLIDE VALVE	371-02504-263
I/O P2	133	54	BLK (58)	4		
			DRAIN	5		
			RED (59)	3	SYS #4 SLIDE VALVE	371-02504-264
I/O P12	134	55	BLK (60)	4		
			DRAIN	5		
			RED (57)	1	SYS #1 COOLER INLET TEMP. SENSOR (407C)	371-02504-226
I/O P11	115	29	BLK (58)	2		
			DRAIN	3		
			RED (59)	1	SYS #2 COOLER INLET TEMP. SENSOR(407C)	371-02504-231
I/O P2	116	30	BLK (60)	2		
			DRAIN	3		

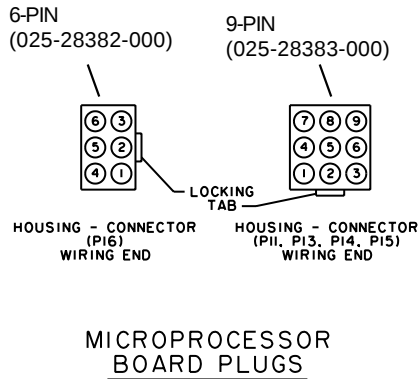
**CONTROL
PANEL**

SENSOR HARNESS - CONT'D

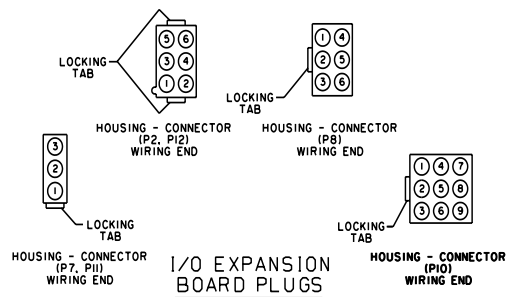
TABLE 14 (CONT'D) – SENSOR HARNESS WIRING (SEE FIGS. 18 AND 19, PAGES 31 AND 32)

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	371-02504-222
			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
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
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	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.

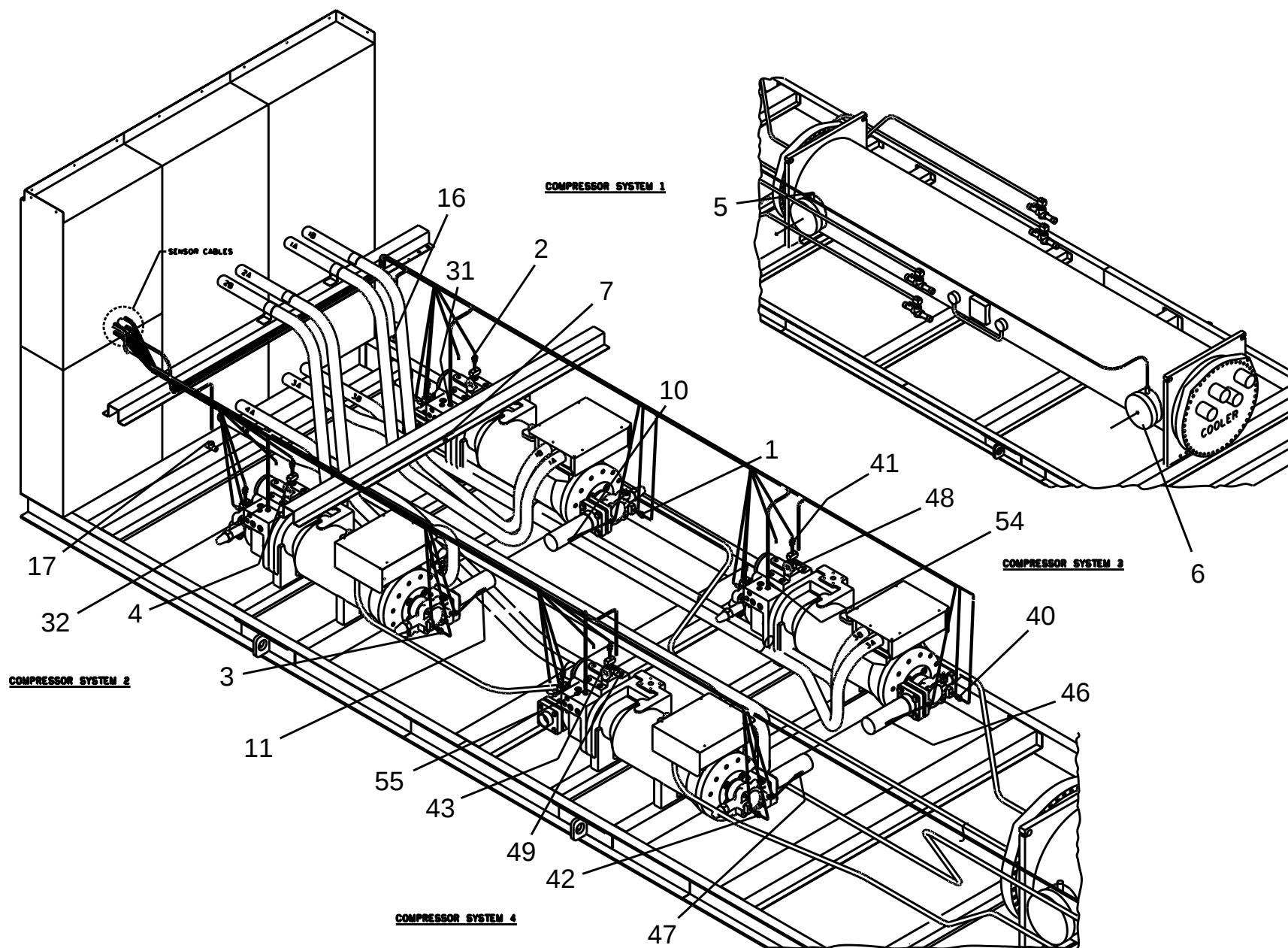


LD05272



LD05277

FIG. 17 – SENSOR HOUSING PART NUMBERS (SEE FIGS. 18 AND 19, PAGES 31 AND 32)



SENSOR HARNESS – CONT'D

FIG. 18 – HARNESS LAYOUT (REF. TABLE 14, PAGE 29 AND 30)

35748-01

FORM 201.18-RP14

CONTROL
PANEL

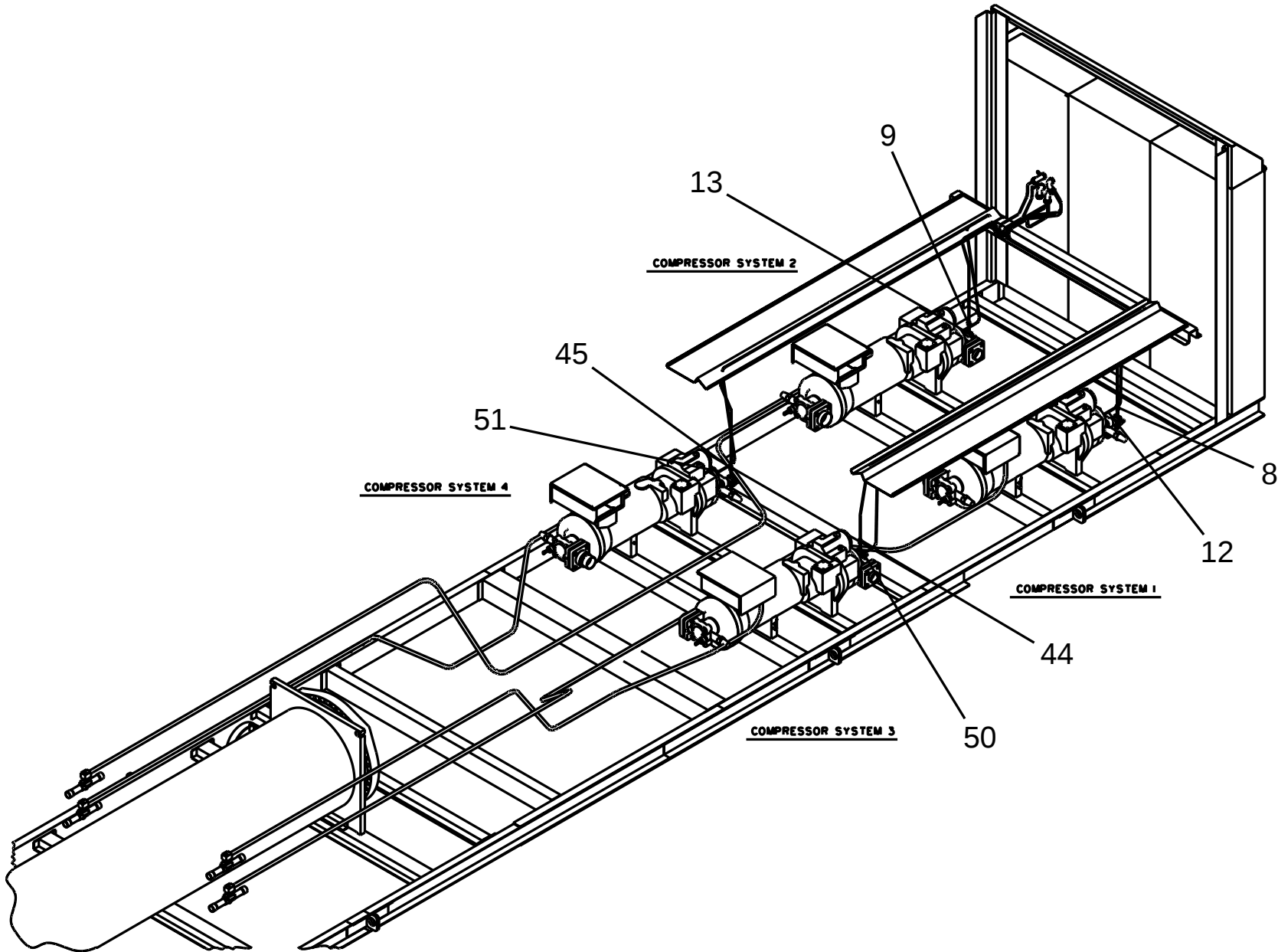


FIG. 19 – HARNESS LAYOUT (REF. TABLE 14, PAGES 29 AND 30)

35742-05

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

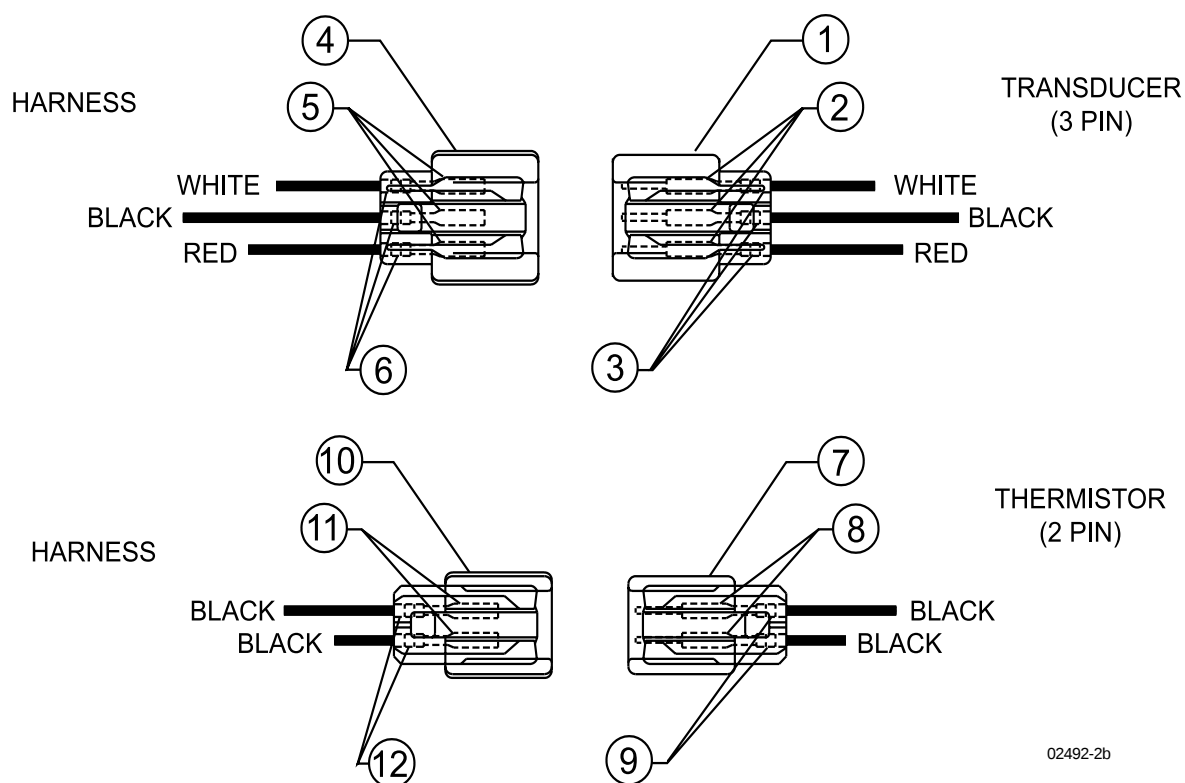


FIG. 21 – TRANSDUCER, TEMPERATURE SENSOR AND WIRE HARNESS CONNECTOR - FIELD REPLACEMENT PART NUMBERS (REF. TABLE 15)

TABLE 15 – 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

TRANSDUCERS AND TEMP SENSORS

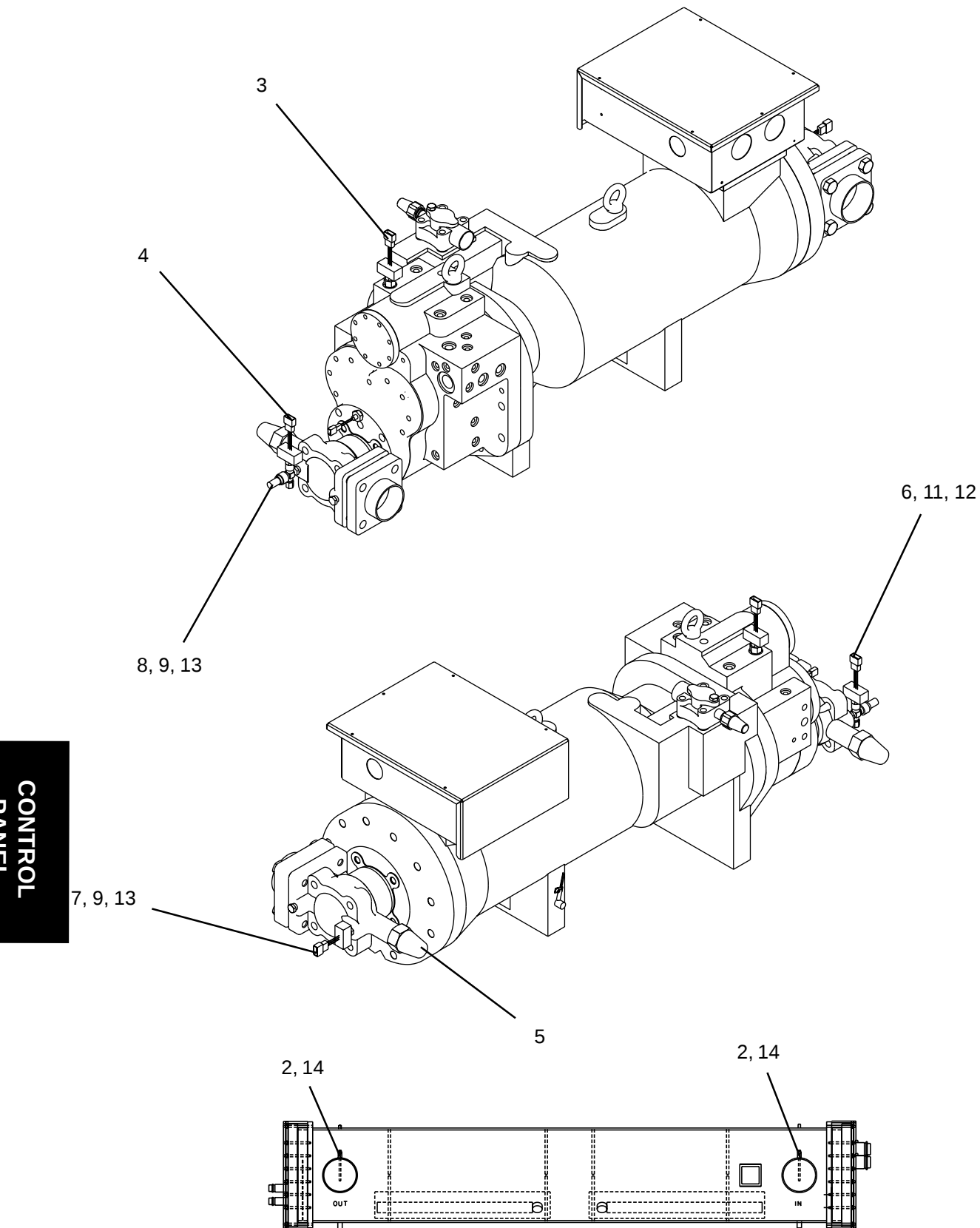


FIG. 21 – TRANSDUCERS AND TEMP SENSORS (REF. TABLE 16, PAGE 35)

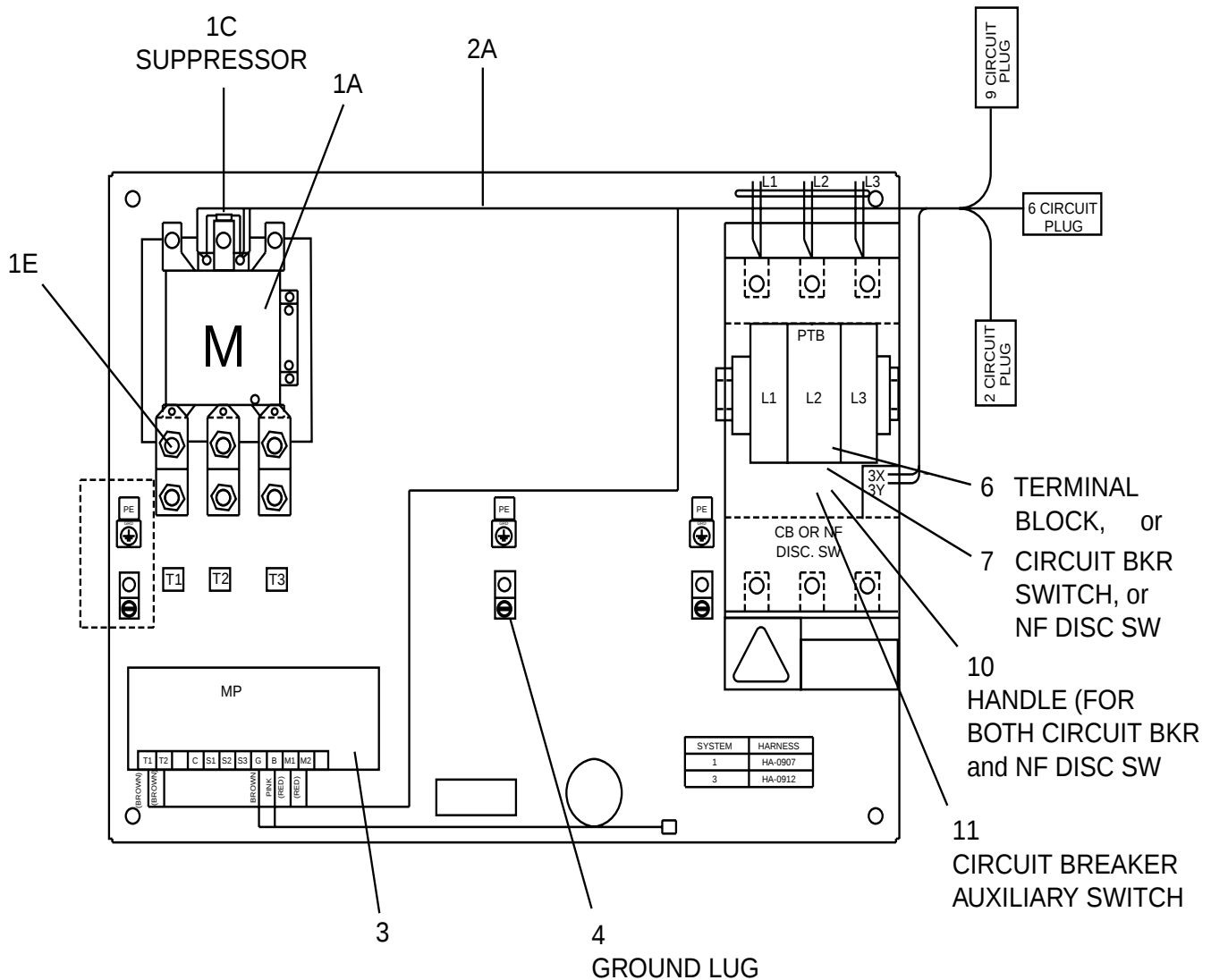
TRANSDUCERS AND TEMP SENSORS – CONT'D

TABLE 16 – TRANSDUCERS AND TEMP SENSORS (SEE FIG. 21, PAGE 34)

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 - ACROSS-THE-LINE



SERVICE NOTE:
MP Terminals B & G are
polarity sensitive.

LD05853

FIG. 22 – 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 17 – 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. 22 ON PAGE 36).

MODEL	POWER PANEL WITH TERMINAL BLOCK	POWER PANEL WITH SEPARATE SYSTEM CIRCUIT BREAKERS
	PANEL NUMBER	PANEL NUMBER
YCAS0358E-40XF	371-02494-107	371-02494-206
YCAS0358E-46XF	371-02494-104	371-02494-214
YCAS0358E-58XF	371-02494-115	371-02494-215
YCAS0398E-40XF	371-02494-116	371-02494-216
YCAS0398E-46XF	371-02494-103	371-02494-203
YCAS0398E-58XF	371-02494-101	371-02494-201
YCAS0418E-40XF	371-02494-110	371-02494-210
YCAS0418E-46XF	371-02494-108	371-02494-208
YCAS0418E-58XF	371-02494-106	371-02494-206

POWER PANEL COMPONENTS - ACROSS-THE-LINE

TABLE 18 – POWER PANEL COMPONENTS - ACROSS THE LINE (SEE FIG. 22, PAGE 36)

ITEM	DESCRIPTION	QTY.	371-02494-101	371-02494-103	371-02494-104
1A	Contactors (Sys.1&2)	2	024-26577-000	024-31638-000	024-31642-000
	Contactors (Sys.3&4)	2	024-31642-000	024-31642-000	024-31638-000
1C	Surge Suppressor	4	031-00808-000	031-00808-000	031-00808-000
1E	Lugs, Cont. (Sys.1&2)	2	025-34088-000	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	025-34089-000	025-34085-000	025-34089-000
5	Ground Lug	2	025-34089-000	025-34089-000	025-34085-000
6	Terminal Block (Sys.1&2)	6	025-34454-000	025-34408-000	025-34454-000
	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 18 (CONT'D) – POWER PANEL COMPONENTS - ACROSS THE LINE
(SEE FIG. 22, PAGE 36)**

ITEM	DESCRIPTION	QTY.	371-02494-106	371-02494-107	371-02494-108
1A	Contactors (Sys.1&2)	2	024-31638-000	024-31638-000	024-31638-000
	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	025-34089-000	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	025-34085-000	025-34085-000
5	Ground Lug	2	025-34089-000	025-34089-000	025-34087-000
6	Terminal Block (Sys.1&2)	6	025-34408-000	025-34408-000	025-34408-000
	Terminal Block (Sys.3&4)	6	025-34454-000	025-34408-000	025-34405-000
7	Circuit Breaker	—	—	—	—
		—	—	—	—
8	NF Disc Switch	—	—	—	—
		—	—	—	—
10	Operator Mech.	—	—	—	—
11	Sw. C/B Aux.2A/2B	—	—	—	—

^s = Recommended Spare Parts

NOTE: HIGHLIGHTED NUMBERS REFER TO POWER PANEL IDENTIFIERS SHOWN ON PAGE 37.

POWER PANEL COMPONENTS - ACROSS-THE-LINE

TABLE 18 (CONT'D) – POWER PANEL COMPONENTS - ACROSS THE LINE
(SEE FIG. 22, PAGE 36)

ITEM	DESCRIPTION	QTY.	371-02494-110	371-02494-115	371-02494-116
1A	Contactors (Sys.1&2)	2	024-31643-000	024-26577-000	024-31638-000
	Contactors (Sys.3&4)	2	024-31643-000	024-26577-000	024-31643-000
1C	Surge Suppressor	12	031-00808-000	031-00808-000	031-00808-000
1E	Lugs, Cont. (Sys.1&2)	2	025-34089-000	025-34088-000	025-34089-000
	Lugs, Cont. (Sys.3&4)	2	025-34089-000	025-34088-000	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	025-34087-000	025-34089-000	025-34085-000
5	Ground Lug	2	025-34087-000	025-34089-000	025-34087-000
6	Terminal Block (Sys.1&2)	6	025-34405-000	025-34454-000	025-34408-000
	Terminal Block (Sys.3&4)	6	025-34405-000	025-34454-000	025-34405-000
7	Circuit Breaker	—	—	—	—
		—	—	—	—
8	NF Disc Switch	—	—	—	—
		—	—	—	—
10	Operator Mech.	—	—	—	—
11	Sw. C/B Aux.2A/2B	—	—	—	—

^s = Recommended Spare Parts

TABLE 18 (CONT'D) – POWER PANEL COMPONENTS - ACROSS THE LINE
(SEE FIG. 22, PAGE 36)

ITEM	DESCRIPTION	QTY.	371-02494-201	371-02494-203	371-02494-206
1A	Contactors (Sys.1&2)	2	024-26577-000	024-31638-000	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, Cont. (Sys.1&2)	2	025-34088-000	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 (Sys.1&2)	4	025-34418-000	025-34480-000	025-34480-000
	Ground Lug (Sys.3&4)	2	025-34418-000	025-34420-000	025-34420-000
5	Ground Lug	2	025-31650-000	025-31650-000	025-34420-000
6	Terminal Block	—	—	—	—
		—	—	—	—
7	Circuit Breaker (Sys.1&2)	2	025-34419-000	025-34424-000	025-34424-000
	Circuit Breaker (Sys.3&4)	2	025-34419-000	025-31819-000	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 37.

POWER PANEL COMPONENTS - ACROSS-THE-LINE

TABLE 18 (CONT'D) – POWER PANEL COMPONENTS - ACROSS THE LINE
(SEE FIG. 22, PAGE 36)

ITEM	DESCRIPTION	QTY.	371-02494-208	371-02494-210	371-02494-214
1A	Contactor (Sys.1&2)	2	024-31638-000	024-31643-000	024-31642-000
	Contactor (Sys.3&4)	2	024-31643-000	024-31643-000	024-31642-000
1C	Surge Suppressor	12	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 (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	025-34420-000	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	025-34424-000	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

TABLE 18 (CONT'D) – POWER PANEL COMPONENTS - ACROSS THE LINE
(SEE FIG. 22, PAGE 36)

ITEM	DESCRIPTION	QTY.	371-02494-215	371-02494-216
1A	Contactor (Sys.1&2)	2	024-26577-000	024-31638-000
	Contactor (Sys.3&4)	2	024-26577-000	024-31643-000
1C	Surge Suppressor	12	031-00808-000	031-00808-000
1E	Lugs, Cont. (Sys.1&2)	2	025-34088-000	025-34089-000
	Lugs, Cont. (Sys.3&4)	2	025-34088-000	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 (Sys.1&2)	4	025-34418-000	025-34480-000
	Ground Lug (Sys.3&4)	2	025-34418-000	025-34420-000
5	Ground Lug	2	024-31650-000	025-34420-000
6	Terminal Block	—	—	—
		—	—	—
7	Circuit Breaker (Sys.1&2)	2	025-34419-000	025-34424-000
	Circuit Breaker (Sys.3&4)	2	025-34419-000	025-34424-000
8	NF Disc Switch	—	—	—
		—	—	—
10	Operator Mech.	4	024-31878-000	024-31878-000
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 - WYE-DELTA

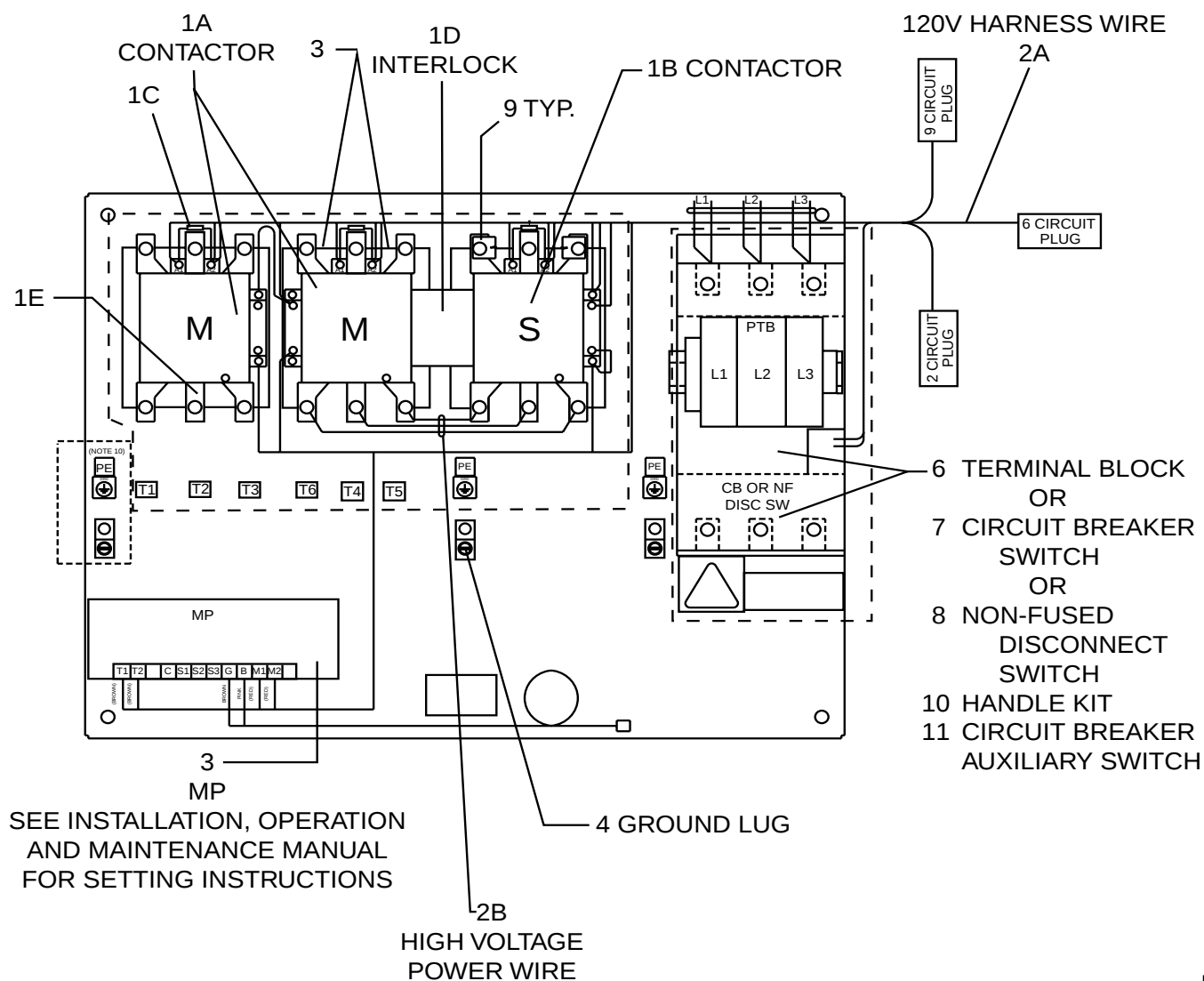


FIG. 23 – POWER PANEL COMPONENTS - WYE DELTA (REF. 'POWER PANEL COMPONENTS- 'WYE DELTA" TABLE, PAGE 43)

POWER PANEL IDENTIFIERS - WYE DELTA

TABLE 19 – 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 43, AND FIG. 23 ON PAGE 41).

Model	Power Panel with Terminal Block	Power Panel with Separate System Circuit Breakers
	Panel Number	Panel Number
YCAS0358E-40YF	N/A	371-02494-227
YCAS0358E-46YF	N/A	371-02494-226
YCAS0358E-58YF	N/A	371-02494-230
YCAS0398E-40YF	N/A	371-02494-227
YCAS0398E-46YF	N/A	371-02494-224
YCAS0398E-58YF	N/A	371-02494-230
YCAS0418E-40YF	N/A	371-02494-228
YCAS0418E-46YF	N/A	371-02494-227
YCAS0418E-58YF	N/A	371-02494-222

POWER PANEL COMPONENTS - WYE-DELTA

TABLE 20 – POWER PANEL COMPONENTS - WYE DELTA (SEE FIG. 23, PAGE 41)

ITEM	DESCRIPTION	QTY.	371-02494-220	371-02494-221	371-02494-222	371-02494-224
1A	Contact M (Sys.1&2)	2 ea.	024-31640-000	024-31603-000	024-31603-000	024-26577-000
	Contact M (Sys.3&4)	2 ea.	024-31603-000	024-31603-000	024-31639-000	024-31603-000
1B	Contact S (Sys.1&2)	1 ea.	024-31636-000	024-31636-000	024-31636-000	024-26577-000
	Contact S (Sys 3&4)	1 ea.	024-31636-000	024-31636-000	024-31602-000	024-31636-000
1C	Surge Suppressor	12	031-00808-000	031-00808-000	031-00808-000	031-00808-000
1D	Mech Interlock (Sys.1&2)	2	024-31601-000	024-31601-000	024-31601-000	024-31600-000
	Mech Interlock (Sys.3&4)	2	024-31601-000	024-31601-000	024-31601-000	024-31601-000
1E	Lugs, Contactor	2	025-34088-000	025-34088-000	025-34088-000	025-34088-000
		2	025-34088-000	025-34088-000	025-34089-000	025-34089-000
2A	120V Harness	2	071-02600-000	071-02600-000	071-02600-000	071-02600-000
		2	071-02601-000	071-02601-000	071-02601-000	071-02601-000
2B	High Voltage Power Wire	4	Obtain Locally	Obtain Locally	Obtain Locally	Obtain Locally
3 ^s	Motor Protector	4	024-30907-000	024-30907-000	024-30907-000	024-30907-000
4	Ground Lug	4	025-34085-000	025-34085-000	025-34085-000	025-34085-000
5	Ground Lug	4	025-34418-000	025-34089-000	025-34089-000	025-34089-000
6	Terminal Block	—	—	—	—	—
		—	—	—	—	—
7	Circuit Breaker (Sys.1&2)	2	025-34419-000	025-34419-000	025-34419-000	025-34424-000
	Circuit Breaker (Sys.3&4)	2	025-34419-000	025-34419-000	025-34419-000	024-31819-000
8	NF Disc Switch	—	—	—	—	—
		—	—	—	—	—
10	Operator Mech.	4	024-31878-000	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	024-31646-000

^s = Recommended Spare Parts

TABLE 20 (CONT'D) – POWER PANEL COMPONENTS - WYE DELTA (SEE FIG. 23, PAGE 41)

ITEM	DESCRIPTION	QTY.	371-02494-226	371-02494-227	371-02494-228	371-02494-230
1A	Contact M (Sys.1&2)	2 ea.	024-26577-000	024-26577-000	024-26577-000	024-31603-000
	Contact M (Sys.3&4)	2 ea.	024-31603-000	024-26577-000	024-31642-000	024-31639-000
1B	Contact S (Sys.1&2)	1 ea.	024-26577-000	024-26577-000	024-26577-000	024-31636-000
	Contact S (Sys 3&4)	1 ea.	024-31636-000	024-26577-000	024-26577-000	024-31602-000
1C	Surge Suppressor	12	031-00808-000	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	024-31601-000
	Mech Interlock (Sys.3&4)	2	024-31601-000	024-31600-000	024-31637-000	024-31601-000
1E	Lugs, Contactor	2	025-34088-000	025-34089-000	025-34089-000	025-34088-000
		2	025-34089-000	025-34089-000	025-34089-000	025-34089-000
2A	120V Harness	2	071-02600-000	071-02600-000	071-02600-000	071-02600-000
		2	071-02601-000	071-02601-000	071-02601-000	071-02601-000
2B	High Voltage Power Wire	4	Obtain Locally	Obtain Locally	Obtain Locally	Obtain Locally
3 ^s	Motor Protector	4	024-30907-000	024-30907-000	024-30907-000	024-30907-000
4	Ground Lug	4	025-34085-000	025-34085-000	025-34085-000	025-34085-000
5	Ground Lug	4	025-34089-000	025-34085-000	025-34085-000	025-34089-000
6	Terminal Block	—	—	—	—	—
		—	—	—	—	—
7	Circuit Breaker (Sys.1&2)	2	025-34424-000	025-34424-000	025-34424-000	025-34424-000
	Circuit Breaker (Sys.3&4)	2	025-34419-000	025-34424-000	025-34424-000	025-34419-000
8	NF Disc Switch	—	—	—	—	—
		—	—	—	—	—
10	Operator Mech.	4	025-34417-000	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	024-31646-000

^s = Recommended Spare Parts

NOTE: HIGHLIGHTED NUMBERS REFER TO POWER PANEL IDENTIFIERS SHOWN ON PAGE 42.

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

TABLE 21 – 4 FAN CONTACTOR PANEL COMPONENTS – YCAS F (SEE FIG. 24, 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)**

LD05287

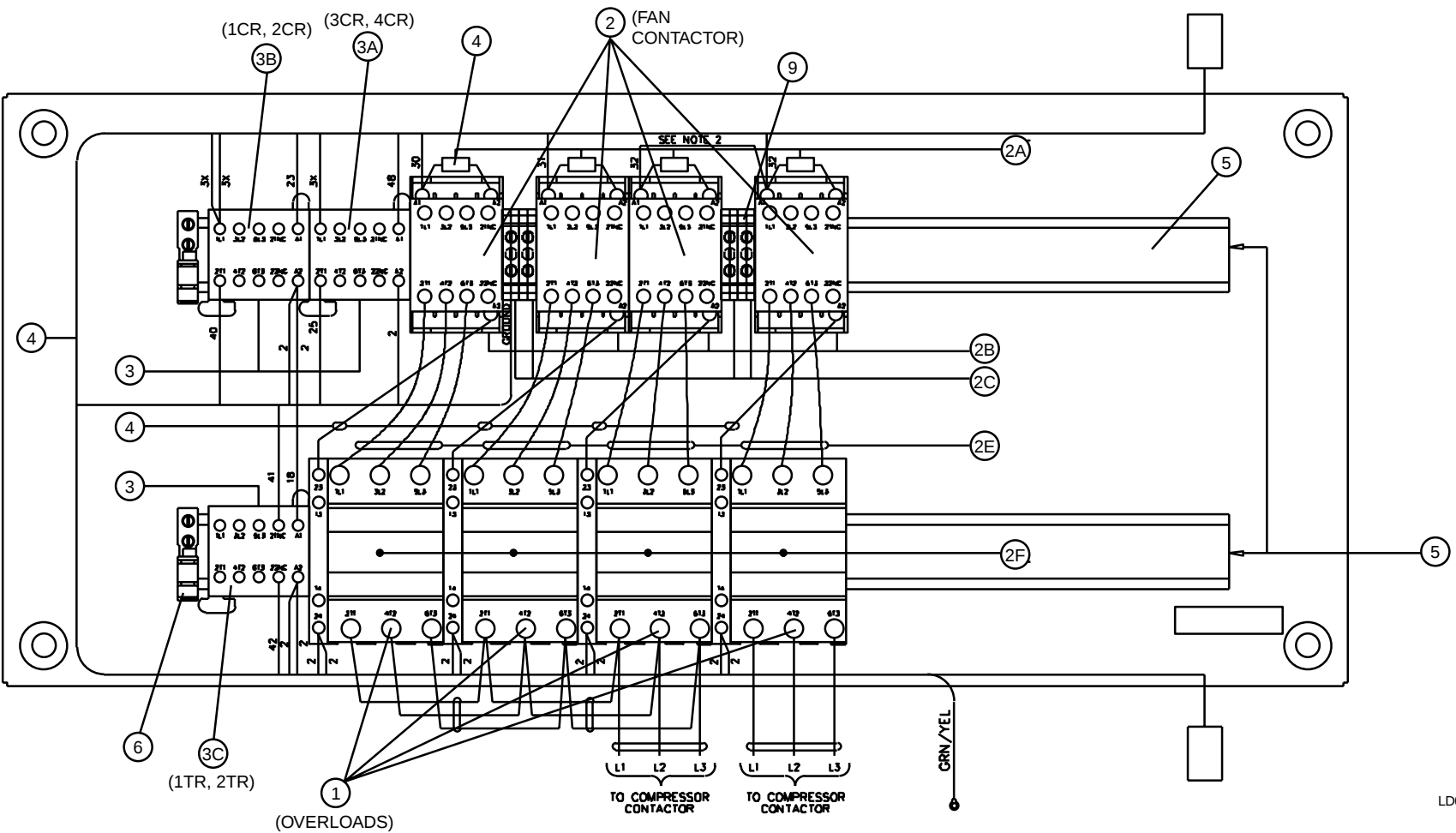


FIG. 24 – 4 FAN CONTACTOR PANEL (REF. TABLE 21, PAGE 44)

OPTION AND POWER PANEL CONFIGURATIONS 4 COMPRESSOR UNIT

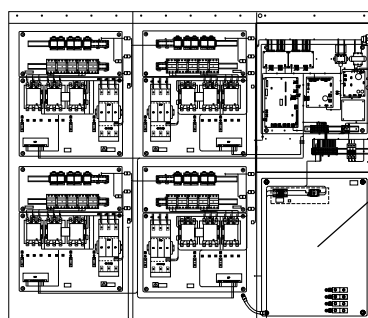
Power panels and option panels are offered in several configurations using three (3) major components:

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.

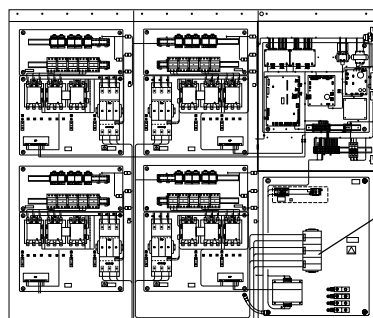
PIN 16 & 17 LETTER CODE IDENTIFIERS	POWER PANEL AND OPTION PANEL CONFIGURATION
X X	Terminal Blocks for each system in power panel; (2) MP terminal blocks in option panel
M D	Terminal Blocks for each system in power panel; (2) NF disc switch in option panel
M B	Circuit Breaker switch for each system in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



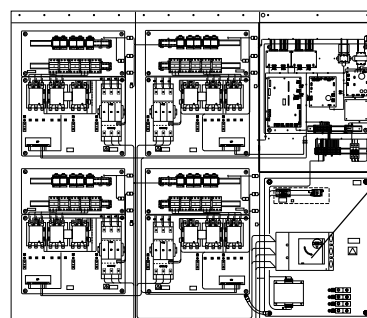
201812-34

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

OPTION PANEL IDENTIFIERS

TABLE 22 – OPTION PANEL IDENTIFIERS (TO IDENTIFY REPLACEMENT PART NUMBERS, SELECT PANEL IDENTIFIER NUMBER BELOW, THEN REFER TO HIGHLIGHTED ROW ON TABLE 23, AND FIGS. 26 AND 27 ON PAGES 49 - 50).

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.
YCAS0358	40	371-02497-111	1	371-02497-141	1
	46	371-02497-110	1	371-02497-140	1
	58	371-02497-110	1	371-02497-140	1
YCAS0398	40	371-02497-111	1	371-02497-141	1
	46	371-02497-110	1	371-02497-140	1
	58	371-02497-110	1	371-02497-140	1
YCAS0418	40	371-02497-111	1	371-02497-141	1
	46	371-02497-111	1	371-02497-141	1
	58	371-02497-110	1	371-02497-140	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.
YCAS0358	40	371-02497-213	1	371-02497-245	1
	46	371-02497-210	1	371-02497-240	1
	58	371-02497-211	1	371-02497-241	1
YCAS0398	40	371-02497-213	1	371-02497-245	1
	46	371-02497-210	1	371-02497-240	1
	58	371-02497-211	1	371-02497-241	1
YCAS0418	40	371-02497-213	1	371-02497-245	1
	46	371-02497-214	1	371-02497-243	1
	58	371-02497-211	1	371-02497-241	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.
YCAS0358	40	371-02497-205	1	371-02497-141	1
	46	371-02497-208	1	371-02497-140	1
	58	371-02497-200	1	371-02497-140	1
YCAS0398	40	371-02497-205	1	371-02497-141	1
	46	371-02497-202	1	371-02497-140	1
	58	371-02497-200	1	371-02497-140	1
YCAS0418	40	371-02497-205	1	371-02497-141	1
	46	371-02497-206	1	371-02497-141	1
	58	371-02497-200	1	371-02497-140	1

* Note: To find Option Panel Identifier, See FIGURES 26 and 27 for Part Label location.

OPTION PANEL IDENTIFIERS (CONT'D)

TABLE 22 (CONT'D) – OPTION PANEL IDENTIFIERS (TO IDENTIFY REPLACEMENT PART NUMBERS, SELECT PANEL IDENTIFIER NUMBER BELOW, THEN REFER TO HIGHLIGHTED ROW ON TABLE 23, AND FIGS. 26 AND 27 ON PAGES 49 - 50).

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.
YCAS0358	40	371-02497-213	1	371-02497-245	1
	46	371-02497-210	1	371-02497-240	1
	58	371-02497-211	1	371-02497-241	1
YCAS0398	40	371-02497-213	1	371-02497-245	1
	46	371-02497-210	1	371-02497-240	1
	58	371-02497-211	1	371-02497-241	1
YCAS0418	40	371-02497-213	1	371-02497-245	1
	46	371-02497-214	1	371-02497-243	1
	58	371-02497-211	1	371-02497-241	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.
YCAS0358	40	371-02497-102	1	371-02497-132	1
	46	371-02497-100	1	371-02497-131	1
	58	371-02497-100	1	371-02497-130	1
YCAS0398	40	371-02497-102	1	371-02497-132	1
	46	371-02497-101	1	371-02497-131	1
	58	371-02497-100	1	371-02497-131	1
YCAS0418	40	371-02497-102	1	371-02497-132	1
	46	371-02497-102	1	371-02497-132	1
	58	371-02497-101	1	371-02497-131	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.
YCAS0358	40	371-02497-205	1	371-02497-234	1
	46	371-02497-208	1	371-02497-231	1
	58	371-02497-200	1	371-02497-230	1
YCAS0398	40	371-02497-205	1	371-02497-234	1
	46	371-02497-202	1	371-02497-231	1
	58	371-02497-200	1	371-02497-232	1
YCAS0418	40	371-02497-205	1	371-02497-234	1
	46	371-02497-206	1	371-02497-235	1
	58	371-02497-200	1	371-02497-232	1

* Note: To find Option Panel Identifier, See FIGURES 26 and 27 for Part Label location.

OPTION PANEL COMPONENTS

TABLE 23 – OPTIONS PANEL COMPONENTS (SEE FIGS. 26 AND 27, PAGES 51 AND 52)

ITEM	DESCRIPTION	QUANTITY	371-02497-100	371-02497-101	371-02497-102	371-02497-110	371-02497-111	371-02497-112	371-02497-130	371-02497-131	371-02497-132
4A	Terminal Block	6, 9 or 12	025-34405-000	025-34408-000	025-34405-000	025-34405-000	025-34408-000	025-34405-000	—	—	—
	NF Disconnect Switch	1	—	—	—	—	—	—	024-31965-000	024-31889-000	024-31890-000
	Circuit Breaker	—	—	—	—	—	—	—	—	—	—
4B	Handle Kit	1	—	—	—	—	—	—	025-35695-000	025-35695-000	025-37653-000
4C	Lug Kit	1	025-34087-000	025-34085-000	025-34087-000	025-34087-000	025-34085-000	025-34087-000	025-34086-000	025-34415-000	025-34412-000
4D	Lug Kits with Power Tap	1	—	—	—	—	—	—	024-31654-000	024-31654-000	024-31655-000
4E	Insertion Bridge	3	025-34423-000	025-34497-000	025-34426-000	025-34423-000	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	371-02497-133	371-02497-140	371-02497-141	371-02497-200	371-02497-202	371-02497-205	371-02497-206	371-02497-210	371-02497-211
4A	Terminal Block	3	—	—	—	025-34405-000	025-34408-000	025-34405-000	025-34405-000	025-34405-000	025-34405-000
	NF Disconnect Switch	2	024-30966-000	024-30964-000	024-30965-000	—	—	—	—	—	—
	Circuit Breaker	1	—	—	—	—	—	—	—	—	—
4B	Handle Kit	1	025-37653-000	024-31878-000	024-35695-000	—	—	—	—	—	—
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	025-34426-000	—	—
1C	Switch, Control Power	1	—	—	—	024-31833-000	024-31833-000	024-31833-000	024-31833-000	024-31833-000	024-31833-000
1D	Shaft, Control Power Sw.	1	—	—	—	024-31633-000	024-31633-000	024-31633-000	024-31633-000	024-31633-000	024-31633-000
1E	Handle, Control Power Sw.	1	—	—	—	024-31832-000	024-31832-000	024-31832-000	024-31832-000	024-31832-000	024-31832-000
2B	Transformer	1	—	—	—	025-35662-000	025-35661-000	025-35660-000	025-35661-000	025-35661-000	025-35662-000
2A	Fuse	2	—	—	—	025-34435-000	025-35608-000	025-34428-000	025-35608-000	025-35608-000	025-34435-000

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

OPTION PANEL COMPONENTS (CONT'D)

TABLE 23 (CONT'D) – OPTIONS PANEL COMPONENTS (SEE FIGS. 26 AND 27, PAGES 51 AND 52)

ITEM	DESCRIPTION	QUANTITY	371-02497-213	371-02497-214	371-02497-216	371-02497-230	371-02497-231	371-02497-232	371-02497-234	371-02497-235	371-02497-237
4A	Terminal Block	3	025-34408-000	025-34408-000	025-34405-000	—	—	—	—	—	—
	NF Disconnect Switch	1	—	—	—	024-30965-000	024-31889-000	024-31889-000	024-31890-000	024-31890-000	024-30966-000
	Circuit Breaker	1	—	—	—	—	—	—	—	—	—
4B	Handle Kit	1	—	—	—	025-35695-000	025-35695-000	025-35695-000	025-37653-000	025-37653-000	025-37653-000
4C	Lug Kit	1	—	—	—	025-34414-000	025-34415-000	025-34415-000	025-34412-000	025-34412-000	025-34412-000
4D	Lug Kits with Power Tap	1	—	—	—	024-31654-000	024-31654-000	024-31654-000	024-31655-000	024-31655-000	024-31655-000
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	024-31833-000	024-31833-000	024-31833-000	024-31833-000
1D	Shaft, Control Power Sw.	1	024-31633-000	024-31633-000	024-31633-000	024-31633-000	024-31633-000	024-31633-000	024-31633-000	024-31633-000	024-31633-000
1E	Handle, Control Power Sw.	1	024-31832-000	024-31832-000	024-31832-000	024-31832-000	024-31832-000	024-31832-000	024-31832-000	024-31832-000	024-31832-000
2B	Transformer	1	025-35660-000	025-35661-000	025-35660-000	025-35662-000	025-35661-000	025-35662-000	025-35660-000	025-35661-000	025-35660-000
2A	Fuse	2	025-34428-000	025-35608-000	025-34428-000	025-34435-000	025-35608-000	025-34435-000	025-34428-000	025-35608-000	025-34428-000

ITEM	DESCRIPTION	QUANTITY	371-02497-240	371-02497-241	371-02497-243	371-02497-245
4A	Terminal Block	3	—	—	—	—
	NF Disconnect Switch	1	024-30964-000	024-30964-000	024-30965-000	024-30965-000
	Circuit Breaker	1	—	—	—	—
4B	Handle Kit	2	024-31878-000	024-31878-000	025-35695-000	025-35695-000
4C	Lug Kit	2	025-34420-000	025-34420-000	025-34414-000	025-34414-000
4D	Lug Kits with Power Tap	2	—	—	024-34415-000	024-34415-000
4E	Insertion Bridge	3	—	—	—	—
1C	Switch, Control Power	1	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
1E	Handle, Control Power Sw.	1	024-31832-000	024-31832-000	024-31832-000	024-31832-000
2B	Transformer	1	025-35661-000	025-35662-000	025-35661-000	025-35660-000
2A	Fuse	2	025-35608-000	025-34435-000	025-35608-000	025-34428-000

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

OPTION PANEL COMPONENTS - (CONT'D)

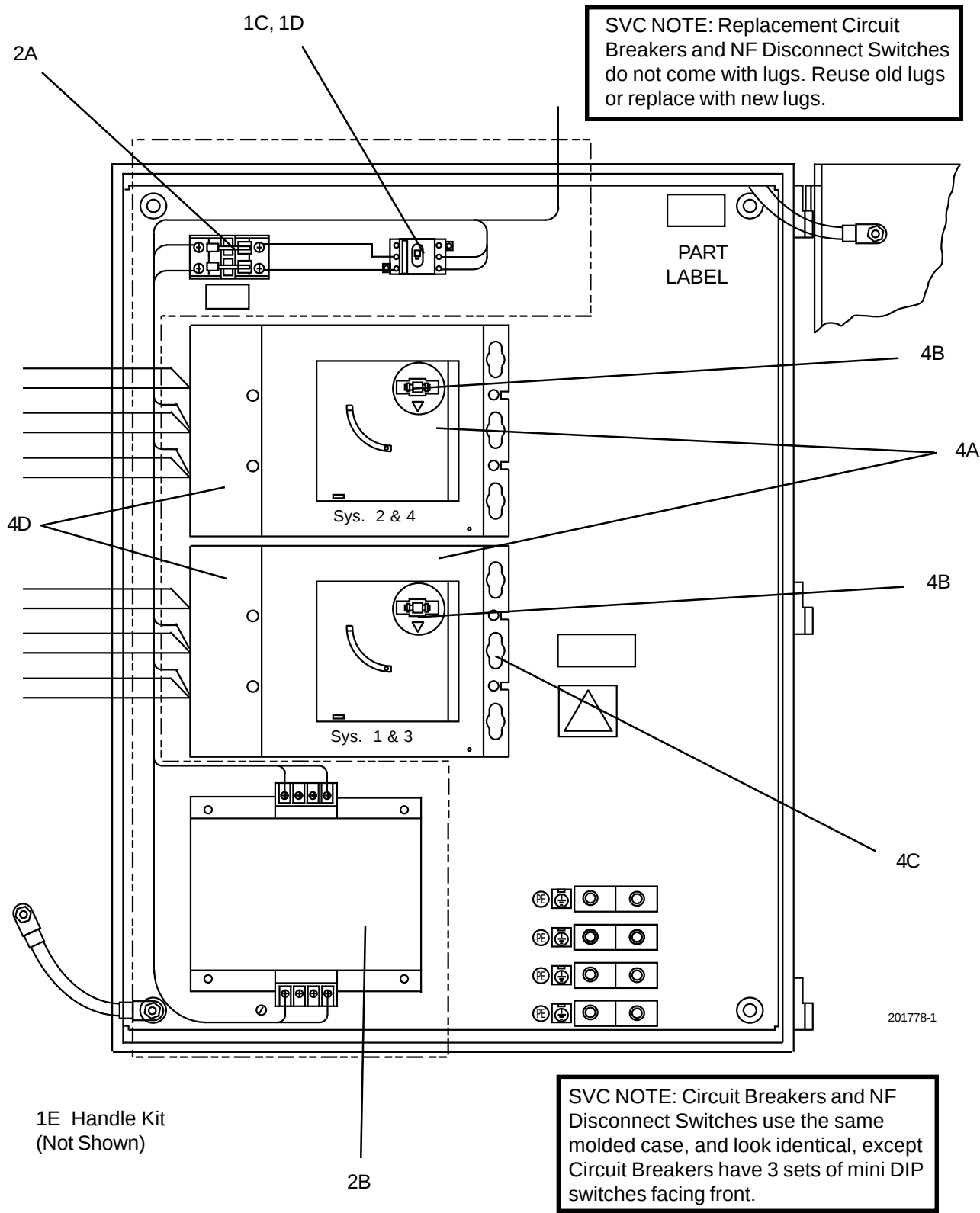
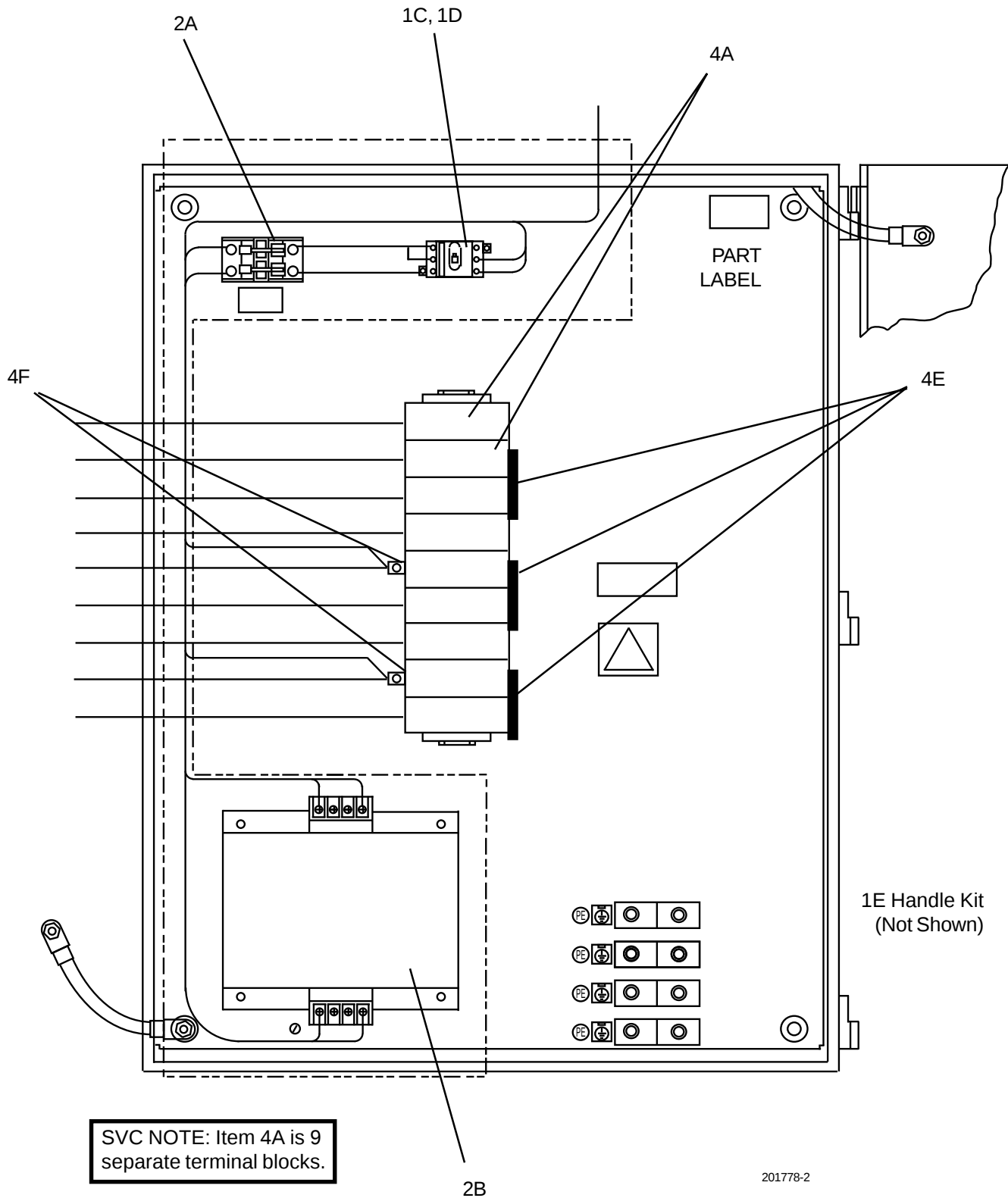


FIG. 26 – OPTION PANEL SHOWN WITH CIRCUIT BREAKER OR NON-FUSED DISCONNECT SWITCH (REF. TABLE 23, PAGES 49 AND 50)

OPTION PANEL COMPONENTS - (CONT'D)



201778-2

FIG. 27 – OPTION PANEL SHOWN WITH POWER TERMINAL BLOCK
(REF. TABLE 23, PAGES 49 AND 50)

This page left blank intentionally

TABLE 24 – 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 60HZ
MODEL#	029-23200	029-23200	029-23200	029-23200	029-23200	029-23200	475-	475-	475-	475-	371-02492	371-02485
0358	-104	-204	-002	-114	-214	-002	31597-000	38561-000	31605-000	31609-000	-102	-102
0398	-104	-204	-002	-115	-215	-002	31595-000	40357-000	31603-000	31607-000	-102	-102
0418	-105	-205	-002	-116	-215	-002	31595-000	40357-000	31603-000	31607-000	-102	-102

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

ENCLOSURE KIT OPTIONS

TABLE 25 – 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
0358	475-31597-000	475-38561-000	475-31605-000	475-31609-000
0398	475-31595-000	475-40357-000	475-31603-000	475-31607-000
0418	475-31595-000	475-40357-000	475-31603-000	475-31607-000

- Individual parts are shown on the following pages.

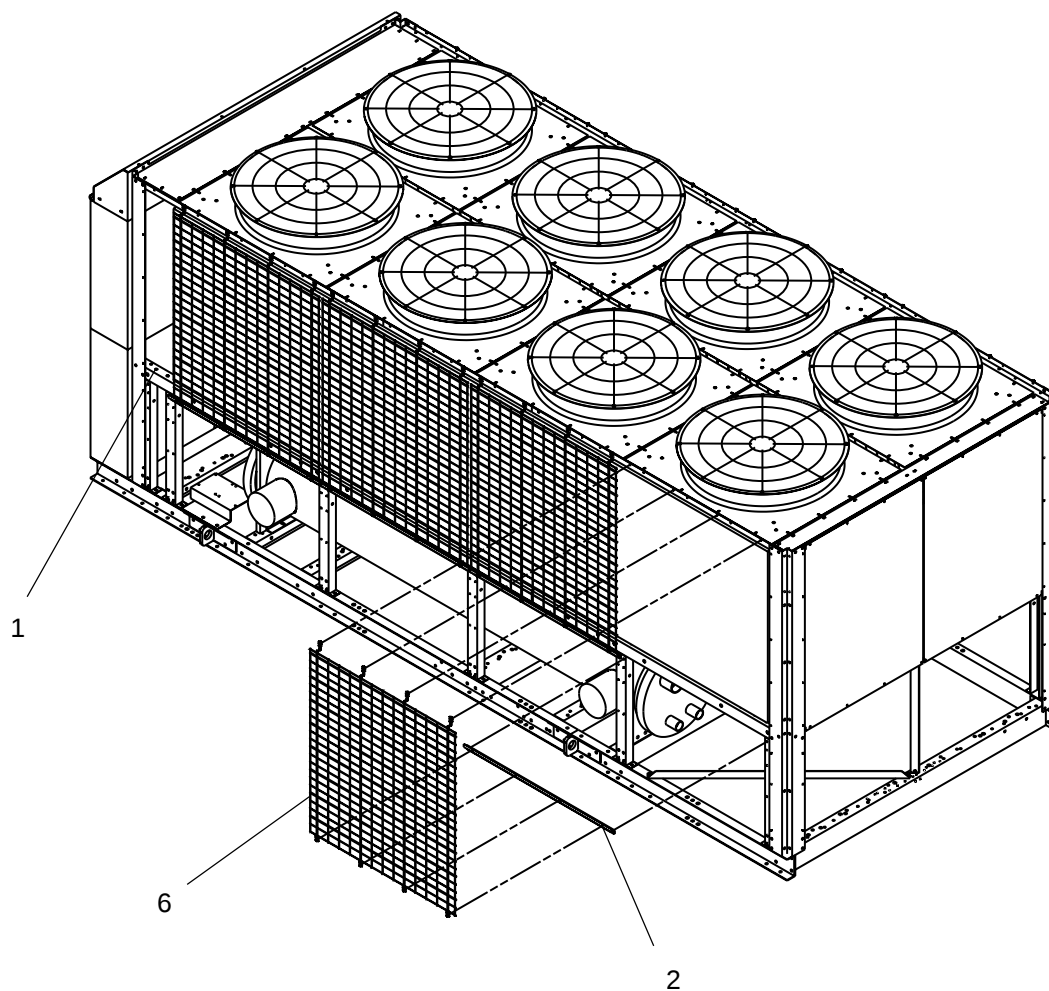
WIRE ENCLOSURE PARTS BREAKDOWN

TABLE 26 – 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. 28 – WIRE ENCLOSURE - 16'-0" KIT IS SHOWN.

WIRE ENCLOSURE PARTS BREAKDOWN - CONT'D

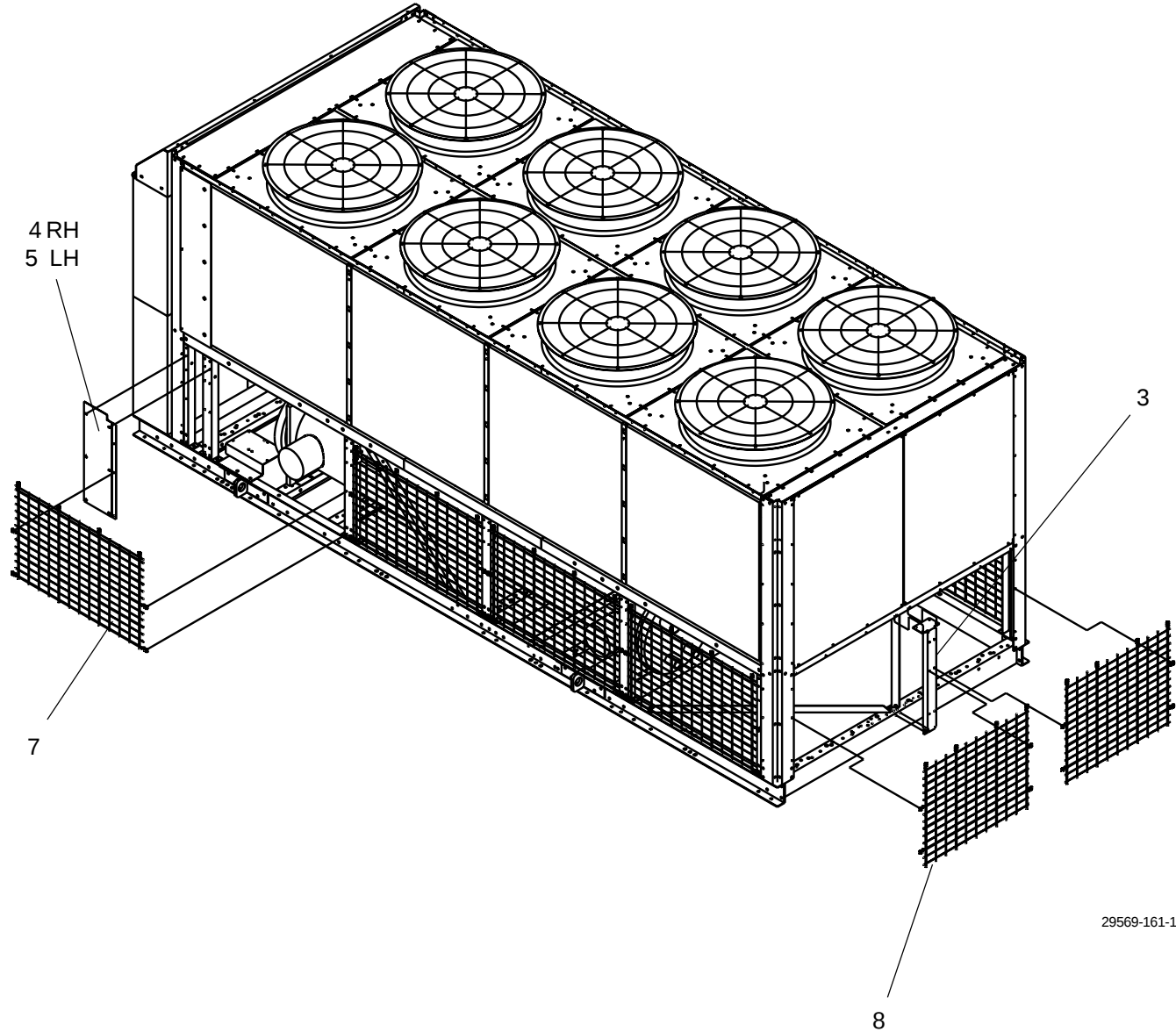


FIG. 29 – WIRE ENCLOSURE - CONT'D - 16'-0"KIT IS SHOWN.

LOUVERED ENCLOSURE PARTS BREAKDOWN

TABLE 27 – 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

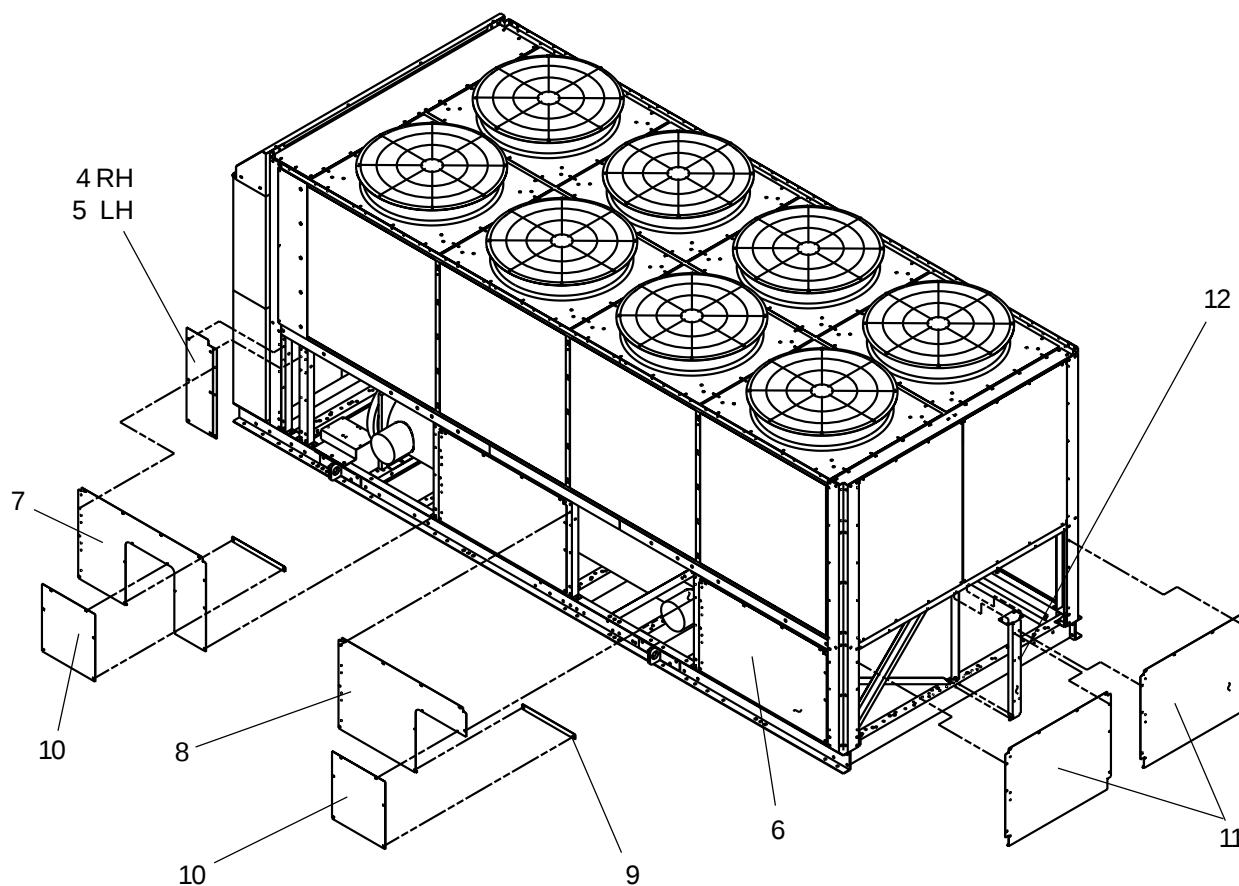


FIG. 30 – LOUVERED ENCLOSURE - 16'-0" KIT IS SHOWN.

29571-161-1

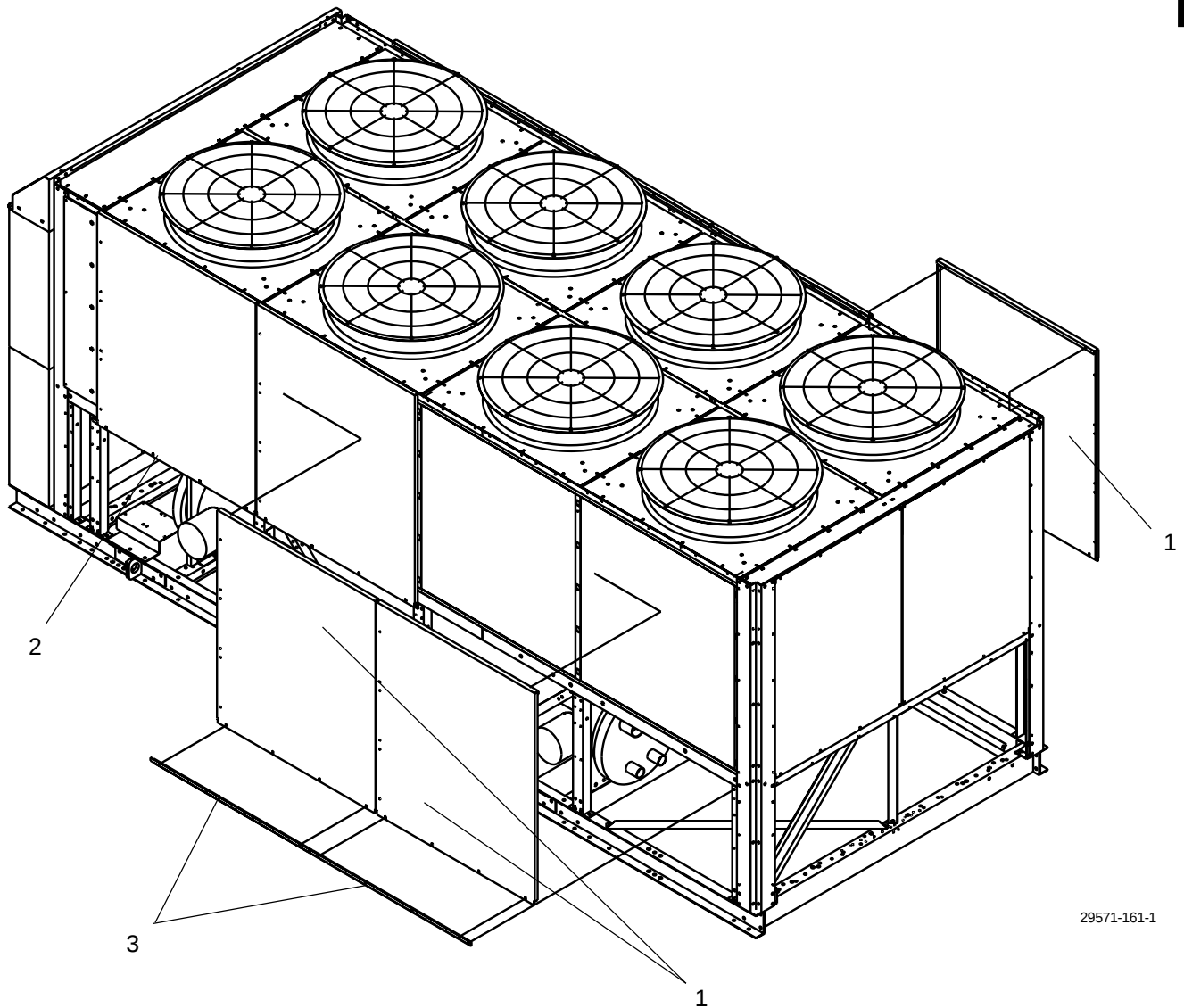
LOUVERED ENCLOSURE PARTS BREAKDOWN - CONT'D

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

REMOTE CURRENT/TEMPERATURE RESET WIRING

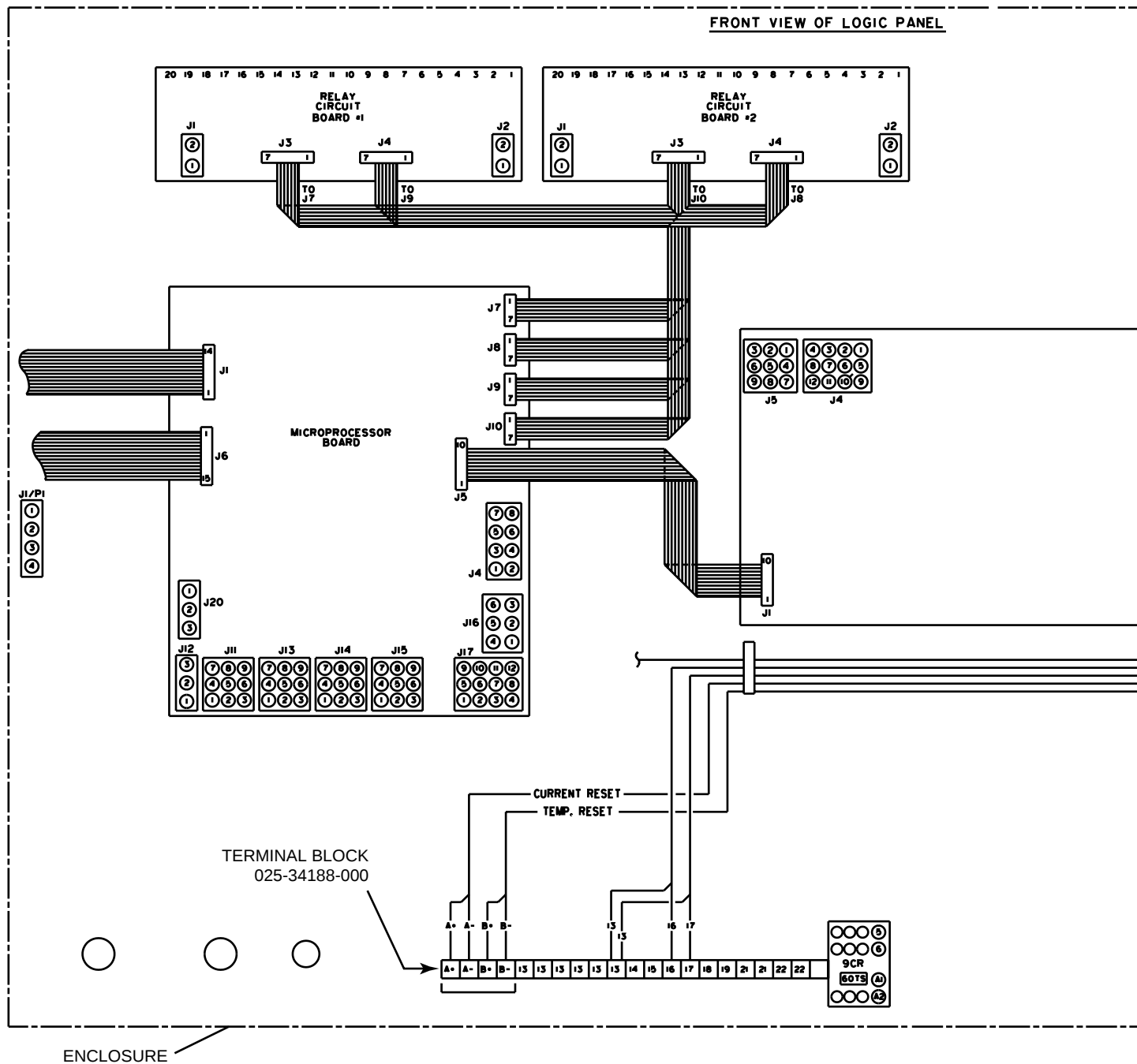


FIG. 32 – REMOTE CURRENT/TEMPERATURE RESET WIRING KIT

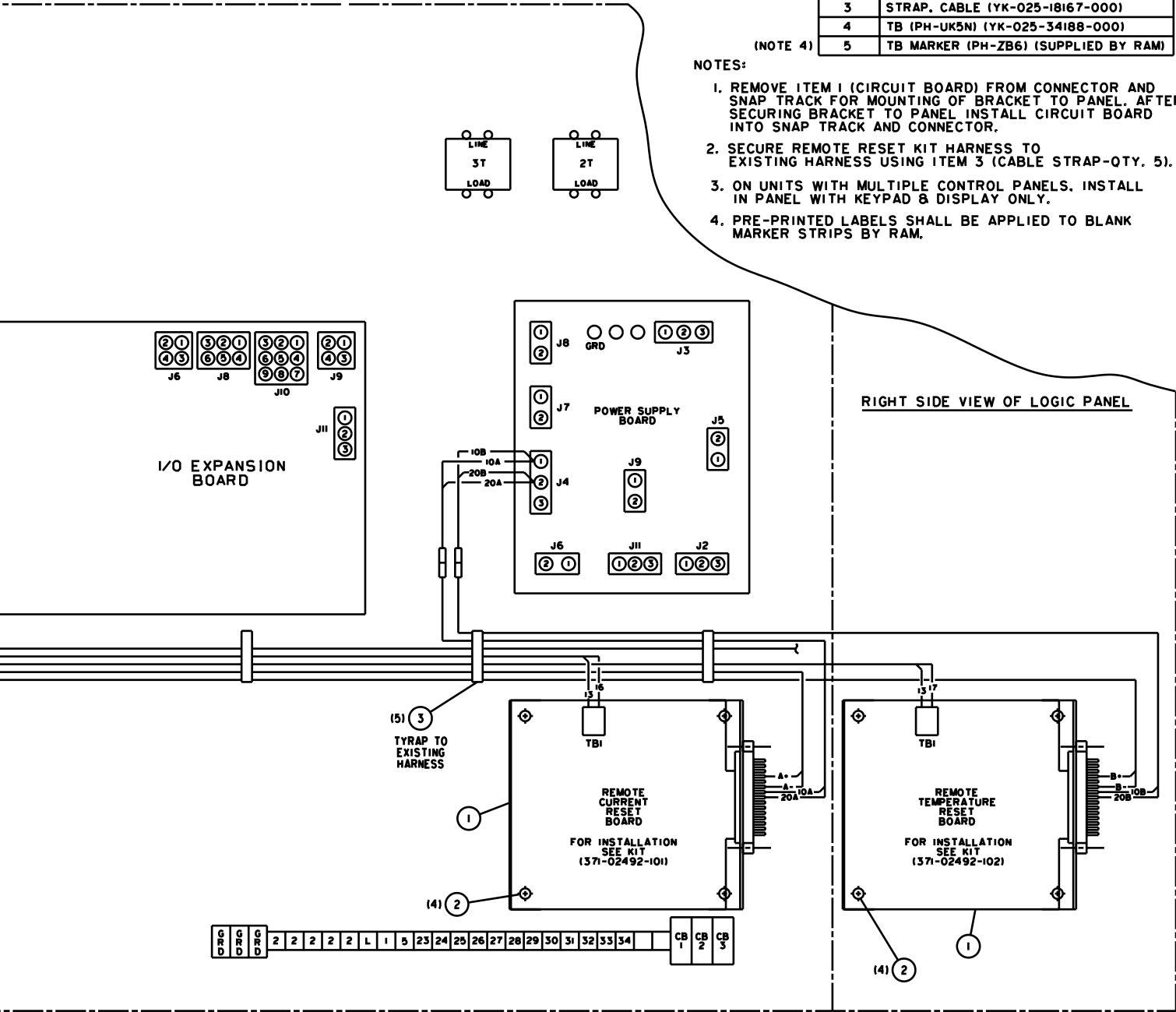
REMOTE CURRENT/TEMPERATURE RESET WIRING

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)

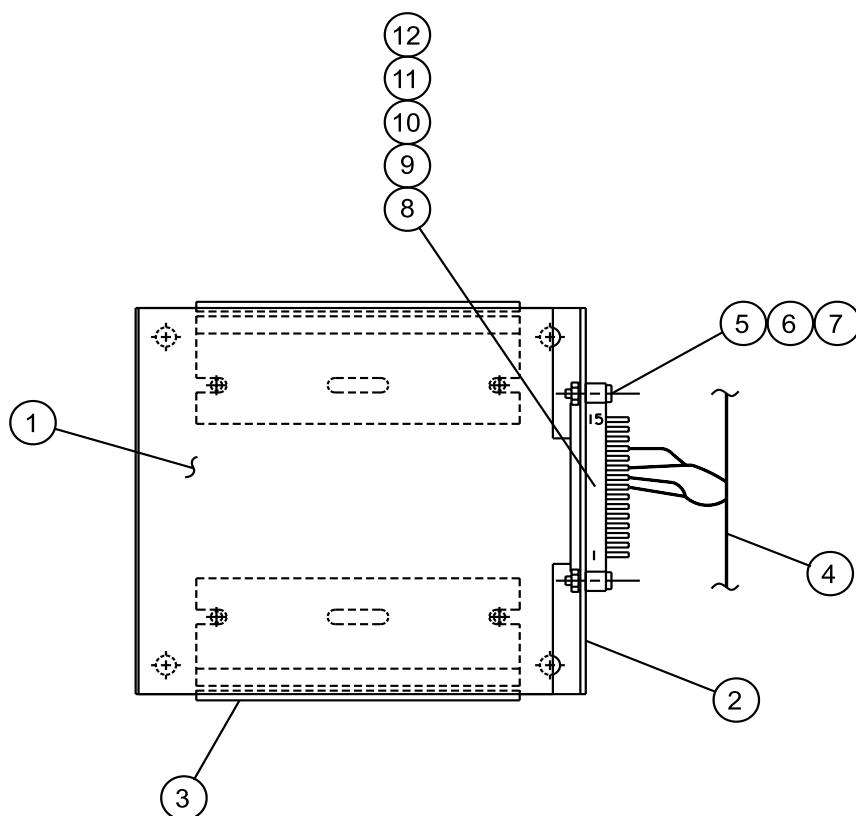
(NOTE 4)

- 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. 33 – REMOTE CURRENT/TEMPERATURE RESET COMPONENTS

TABLE 28 – 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 29 for individual wire harness parts

TABLE 29 – 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

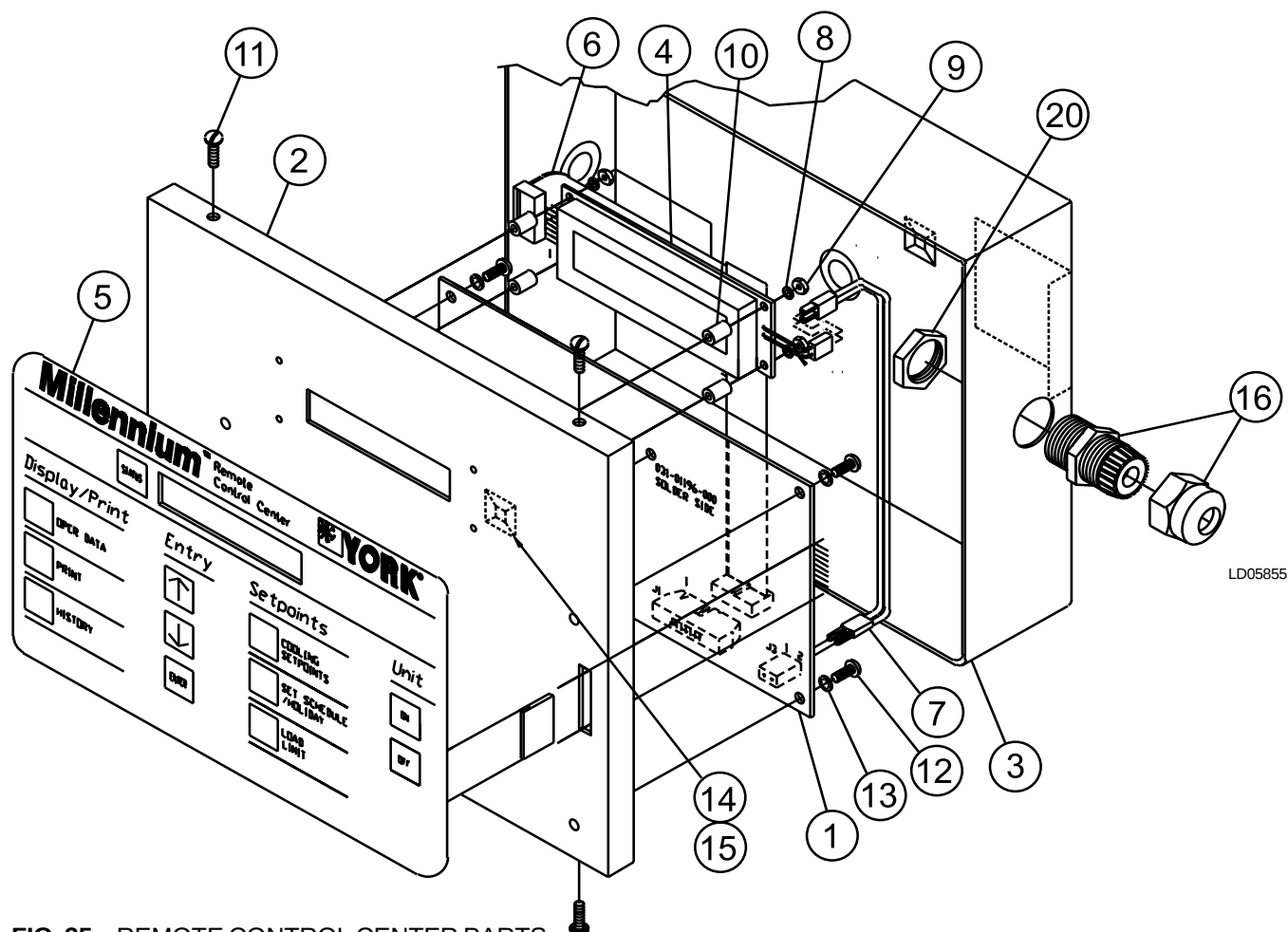


FIG. 35 – REMOTE CONTROL CENTER PARTS

TABLE 30 – REMOTE CONTROL CENTER PARTS

371-02485-102 (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

TABLE 31 – 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.

NOTES

NOTES

YORK SERVICE OFFICES (North America)

ALABAMA

Birmingham

YORK International Corp.
(205) 987-0458

ARIZONA

Phoenix

YORK International Corp.
(602) 220-9400

CALIFORNIA

Los Angeles

YORK International Corp.
(714) 897-0997

San Diego

YORK International Corp.
(858) 268-0770

San Francisco

YORK International Corp.
(925) 426-1166

COLORADO

Denver

YORK International Corp.
(303) 649-1500

CONNECTICUT

Danbury

YORK International Corp.
(203) 730-8100

FLORIDA

Miami

YORK International Corp.
(954) 389-9675

Tampa

YORK International Corp.
(813) 621-1323

Orlando

YORK International Corp.
(407) 444-2261

GEORGIA

Atlanta

YORK International Corp.
(678) 474-9237

HAWAII

Honolulu

YORK International Corp.
(808) 596-0761

ILLINOIS

Chicago

YORK International Corp.
(847) 520-1910

INDIANA

Indianapolis

YORK International Corp.
(317) 595-3050

KENTUCKY

Louisville

YORK International Corp.
(502) 499-6020

LOUISIANA

New Orleans

YORK International Corp.
(504) 464-6941

MARYLAND

Baltimore/Washington

YORK International Corp.
(410) 720-6383

MASSACHUSETTS

Boston

YORK International Corp.
(781) 769-7950

MICHIGAN

Detroit

YORK International Corp.
(248) 689-7277

MINNESOTA

Minneapolis

YORK International Corp.
(763) 780-4446

MISSOURI

Kansas City

YORK International Corp.
(816) 221-9675

St. Louis

YORK International Corp.
(314) 770-0909

NEBRASKA

Omaha

YORK International Corp.
(402) 593-0632

NEVADA

Las Vegas

YORK International Corp.
(702) 873-2200

NEW JERSEY

Newark

YORK International Corp.
(732) 225-0606

NEW MEXICO

Albuquerque

YORK International Corp.
(505) 797-4956

NEW YORK

Albany

YORK International Corp.
(518) 464-6500

Buffalo

YORK International Corp.
(716) 633-2172

New York

YORK International Corp.
(212) 843-1602

NORTH CAROLINA

Charlotte

YORK International Corp.
(704) 598-0000

Greensboro

YORK International Corp.
(336) 299-9675

Raleigh

YORK International Corp.
(919) 431-9675

OHIO

Cincinnati

YORK International Corp.
(513) 489-8871

Cleveland

YORK International Corp.
(216) 447-0696

Columbus

YORK International Corp.
(614) 841-5242

PENNSYLVANIA

Philadelphia

YORK International Corp.
(610) 640-2320

Pittsburgh

YORK International Corp.
(412) 364-6600

York (HQ)

YORK International Corp.
(717) 771-7890

SOUTH CAROLINA

Greenville

YORK International Corp.
(864) 627-9675

TENNESSEE

Kingsport

YORK International Corp.
(423) 349-2450

Nashville

YORK International Corp.
(615) 833-9675

TEXAS

Austin

YORK International Corp.
(512) 481-0220

Beaumont

YORK International Corp.
(409) 840-5256

Dallas

YORK International Corp.
(972) 241-1219

Houston

YORK International Corp.
(713) 782-5200

San Antonio

YORK International Corp.
(210) 496-6631

UTAH

Salt Lake City

YORK International Corp.
(801) 261-1200

VIRGINIA

Richmond

YORK International Corp.
(804) 359-2648

WASHINGTON

Seattle

YORK International Corp.
(425) 251-9145

CANADA

Ottawa, Ontario

(613) 596-9111

Toronto, Ontario

(905) 890-6812

Laval, Quebec

(514) 387-6000

YORK Applied Systems field office listing subject to change.

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

