



MILLENNIUM[®]
PACKAGED LIQUID CHILLERS
AIR COOLED SCREW HERMETIC

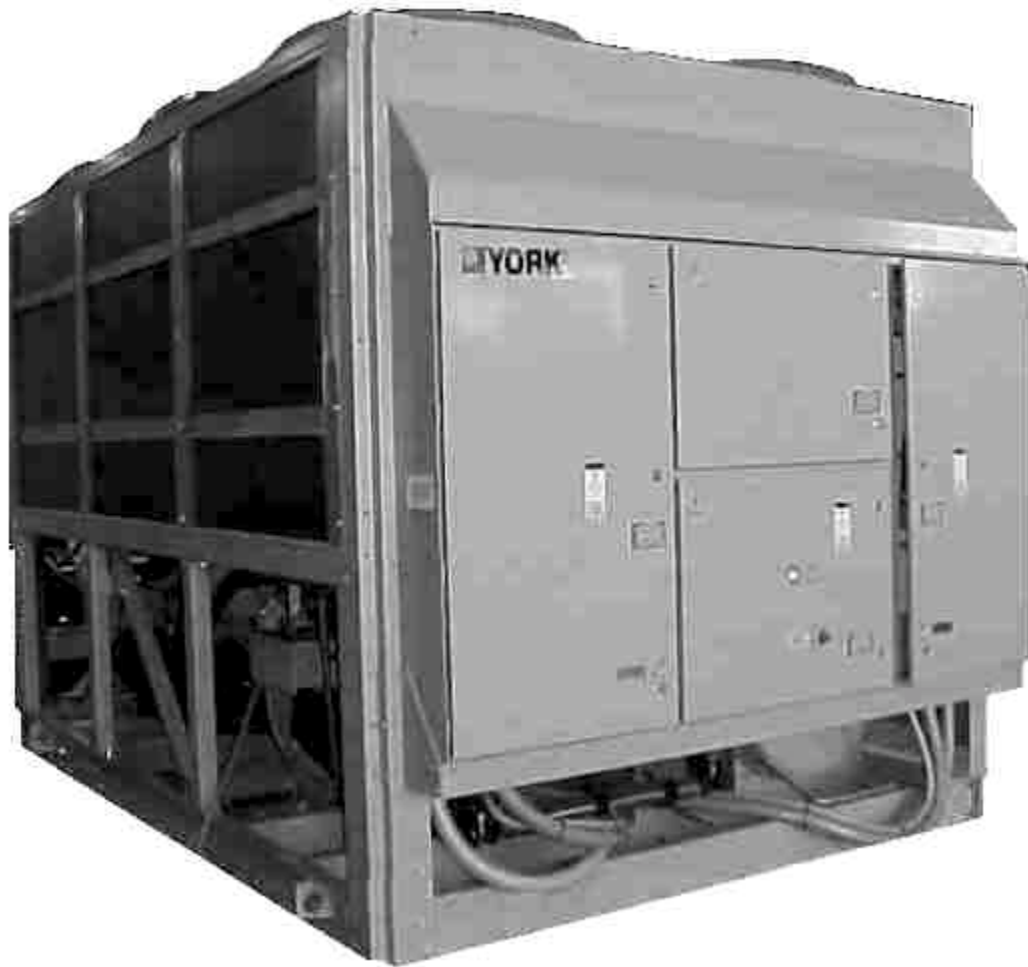
RENEWAL PARTS LIST

New Release

Form 201.18-RP6 (901)

MODELS YCAS0283, YCAS0303, YCAS0323 & YCAS0343

50 HERTZ



Bantam1



ALLY



380/415-3-50
MODELS ONLY

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WARNING**HIGH VOLTAGE**

Is used in the operation of this equipment.

DEATH OR SERIOUS INJURY

may result if personnel fail to observe safety precautions.

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

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

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

LOW VOLTAGE

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

EVAPORATOR COMPONENTS

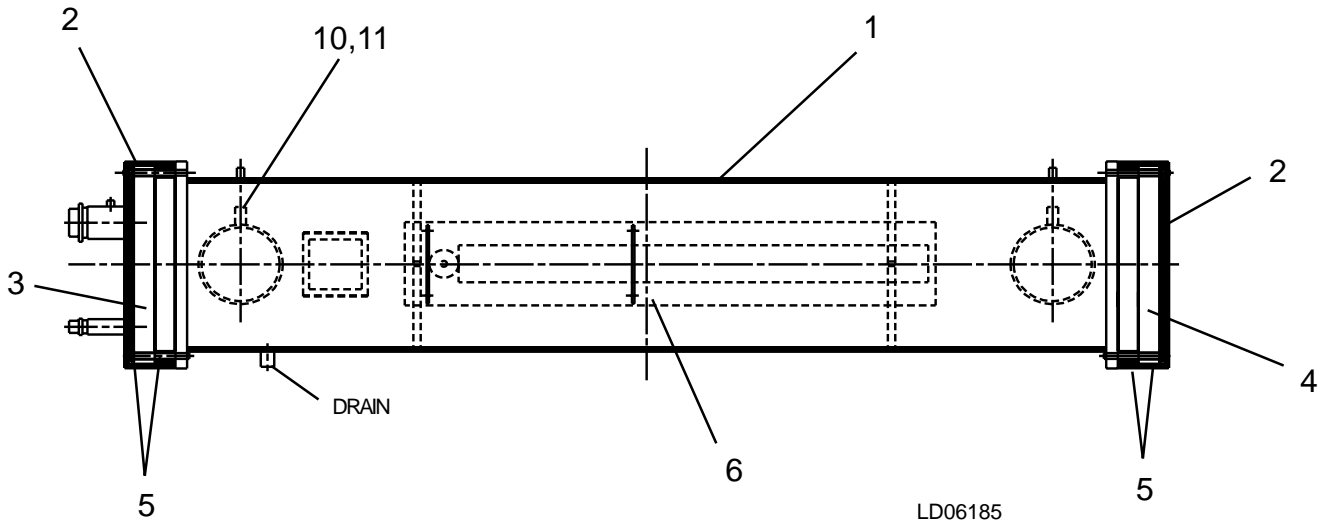
Evaporator

SVC NOTE:

UNWEAT BRAZED ON
STEEL COUPLINGS - FOR
REMOTE EVAPORATOR
FIELD PIPE CONNECTION

SVC NOTE:

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



SVC NOTE:

TRIM GASKET TO MATCH BAFFLE,
USE ADHESIVE ITEM 9 TO INSTALL.
ALLOW ADHESIVE TO BECOME
TACKY PRIOR TO INSTALLATION.

7, 8, 9 (Not Shown)

FIG. 1 – EVAPORATOR COMPONENTS - 150 PSI

TABLE 1 – EVAPORATOR COMPONENTS - 150 PSI

ITEM NUMBER	QTY. PER UNIT	DESCRIPTION	DWP	UNIT MODEL YCAS0283 THRU YCAS0343
1	1	Evaporator, less Heater & Insulation (Items 2 thru 5)	150	375-32153-000
2	1	Head, Front and Back	ALL	075-35113-000
3	1	Baffle, Pass, Front	ALL	375-30235-000
4	1	Baffle, Pass, Back	ALL	075-30238-000
5	8	Gasket, Pass Baffle and Head	ALL	075-30239-000
6	1	Heater, Cooler 180 Watt	ALL	025-22690-000
7	3	Insulation (3/4" x 49" x 65")	ALL	010-05997-000
8	2	Insulation (1-1/2" x 49" x 65")	ALL	010-05998-000
9	1	Adhesive, 1.75 oz. Btl. (Not Shown)	ALL	013-02293-000
10	2	Pipe Plug 3/8"	ALL	023-01983-000
11	2	Well, Thermo CU 1/2" x 9-1/2"	ALL	026-33627-000

- 150# EVAPORATOR FLOW SWITCH 024-26116-000 (PIN 38 in Model Number is X)

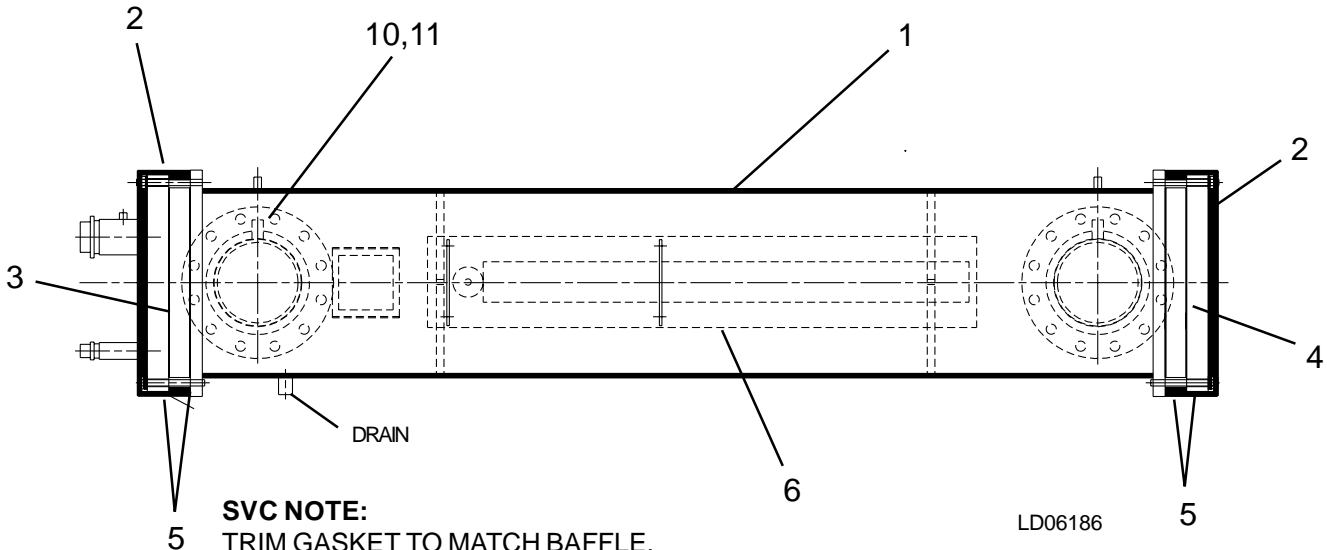
EVAPORATOR COMPONENTS (CONT'D)

SVC NOTE:

UNSWEAT BRAZED ON
STEEL COUPLINGS - FOR
REMOTE EVAPORATOR
FIELD PIPE CONNECTION

SVC NOTE:

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



SVC NOTE:
TRIM GASKET TO MATCH BAFFLE,
USE ADHESIVE ITEM 9 TO INSTALL.
ALLOW ADHESIVE TO BECOME
TACKY PRIOR TO INSTALLATION.

7, 8, 9 (Not Shown)

FIG. 2 – EVAPORATOR COMPONENTS - 300 PSI

TABLE 2 – EVAPORATOR COMPONENTS - 300 PSI

ITEM NUMBER	QTY. PER UNIT	DESCRIPTION	DWP	UNIT MODEL YCAS0283 THRU YCAS0343
1	1	Evaporator, less Heater & Insulation (Items 2 thru 5)	300	375-32154-500
2	1	Head, Front and Back	ALL	075-35113-000
3	1	Baffle, Pass, Front	ALL	375-30235-000
4	1	Baffle, Pass, Back	ALL	075-30238-000
5	8	Gasket, Pass Baffle and Head	ALL	075-30239-000
6	1	Heater, Cooler 180 Watt	ALL	025-22690-000
		Heater, Cooler 280 Watt		025-22691-000
7	3	Insulation (3/4" x 49" x 65")	ALL	010-05997-000
8	2	Insulation (1-1/2" x 49" x 65")	ALL	010-05998-000
9	1	Adhesive, 1.75 oz. Btl. (Not Shown)	ALL	013-02293-000
10	2	Pipe Plug 3/8"	ALL	023-01983-000
11	2	Well, Thermo CU 1/2" x 9-1/2"	ALL	026-33627-000

- 300# EVAPORATOR FLOW SWITCH 024-12144-000 (PIN 38 in Model Number is 3)

CONDENSER COIL COMPONENTS

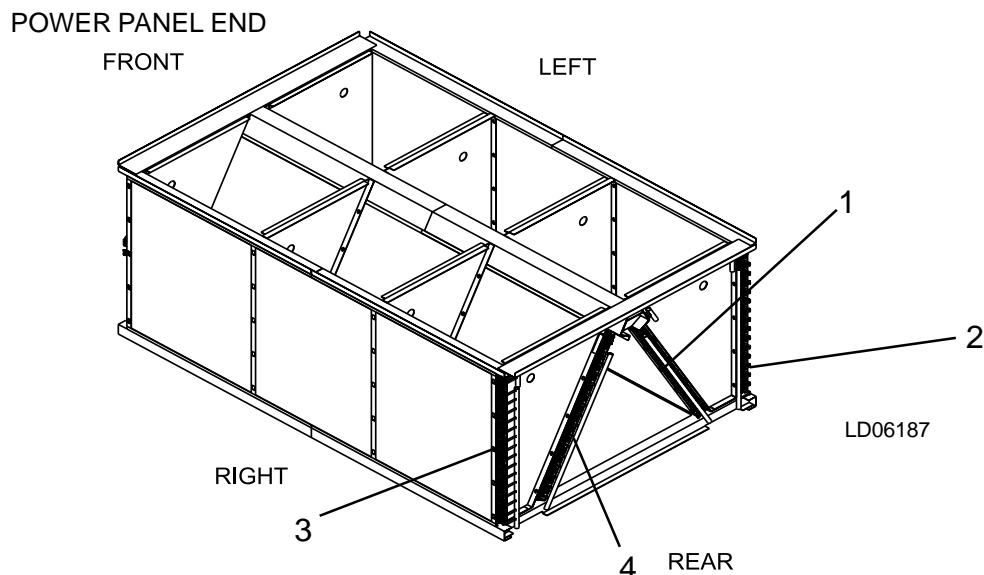


FIG. 3 – CONDENSER COIL LAYOUT

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

TABLE 3 – CONDENSER COILS – YCAS0283 - YCAS0343

			MODELS YCAS0283 - 0343 10.5' COIL	
ITEM NUMBER	DESCRIPTION	QTY.	YORK PART NO.	
ALUMINUM FIN COIL				
1	Cond. Coil Assembly, Right (Sys 1)	1	375-32252-003	
2	Cond. Coil Assembly, Left (Sys 1)	1	375-32252-002	
3	Cond. Coil Assembly, Right (Sys 2)	1	375-32252-001	
4	Cond. Coil Assembly, Left (Sys 2)	1	375-32252-004	
BLACK FIN COIL				
1	Cond. Coil Assembly, Right (Sys 1)	1	375-29092-003	
2	Cond. Coil Assembly, Left (Sys 1)	1	375-29092-002	
3	Cond. Coil Assembly, Right (Sys 2)	1	375-29092-001	
4	Cond. Coil Assembly, Left (Sys 2)	1	375-29092-004	
PHENOLIC COATED ALUMINUM FIN				
1	Cond. Coil Assembly, Right (Sys 1)	1	375-33402-003	
2	Cond. Coil Assembly, Left (Sys 1)	1	375-33402-002	
3	Cond. Coil Assembly, Right (Sys 2)	1	375-33402-001	
4	Cond. Coil Assembly, Left (Sys 2)	1	375-33402-004	
COPPER FIN				
1	Cond. Coil Assembly, Right (Sys 1)	1	375-29093-003	
2	Cond. Coil Assembly, Left (Sys 1)	1	375-29093-002	
3	Cond. Coil Assembly, Right (Sys 2)	1	375-29093-001	
4	Cond. Coil Assembly, Left (Sys 2)	1	375-29093-004	

NOTE: Coil Assemblies are complete with headers.

FAN COMPONENTS

CHILLER MODELS YCAS0283 - YCAS0343

TABLE 4 – FAN COMPONENTS - CHILLER MODELS YCAS0283 - YCAS0343

ITEM NUMBER	DESCRIPTION	VOLTAGE CODE	FAN TYPE	
			STANDARD 7/8" Ø SHAFT, 967 RPM	LOW NOISE (OPTIONAL) 7/8" Ø SHAFT, 708 RPM
1 ^s	Motor 2 HP (Wt. = 50 LBS.)	-50	024-30900-001	024-30933-001
2 ^s	Blade	All	026-35392-000 21°	026-36531-000 30°
3	Guard	All	026-35605-001	
4	Orifice	All	026-36760-000	
5	Support, Motor, Upper	All	075-29060-000	
6	Support, Motor, Lower	All	075-29061-000	
7	Spacer, Fan Motor	All	075-29007-000	
8	Screw, Cap	All	021-18494-000	

^sRecommended Spare Part

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

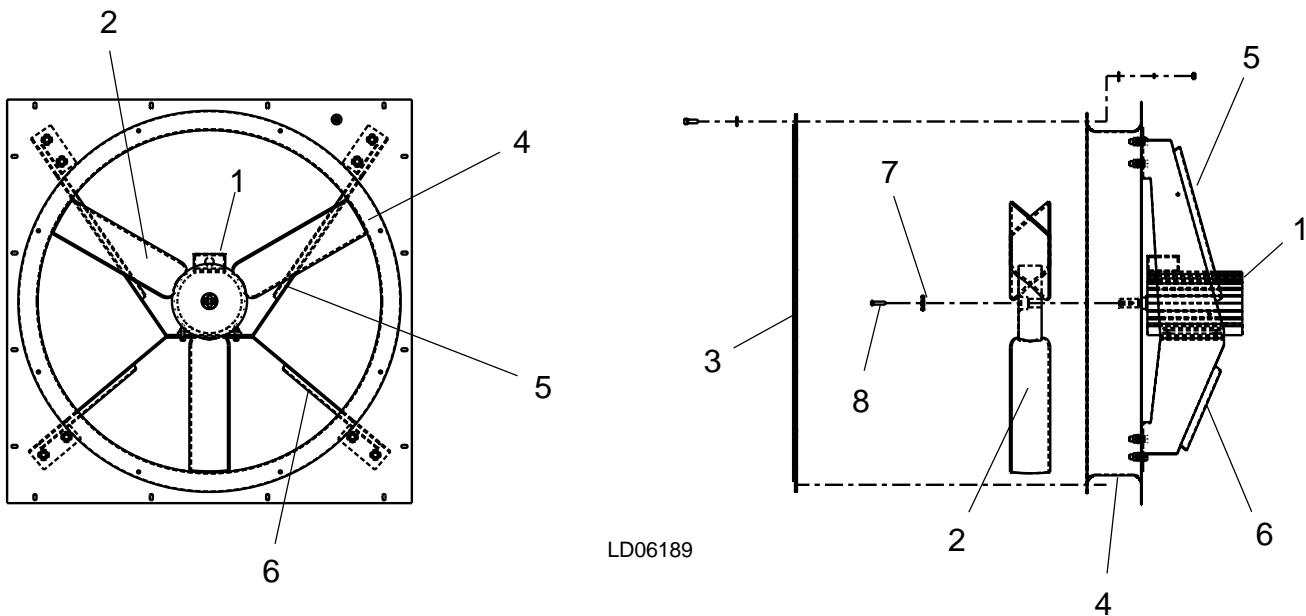


FIG. 4 – FAN COMPONENTS - CHILLER MODELS YCAS0283 - YCAS0343

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

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PIPING COMPONENTS CHILLER MODEL YCAS0283

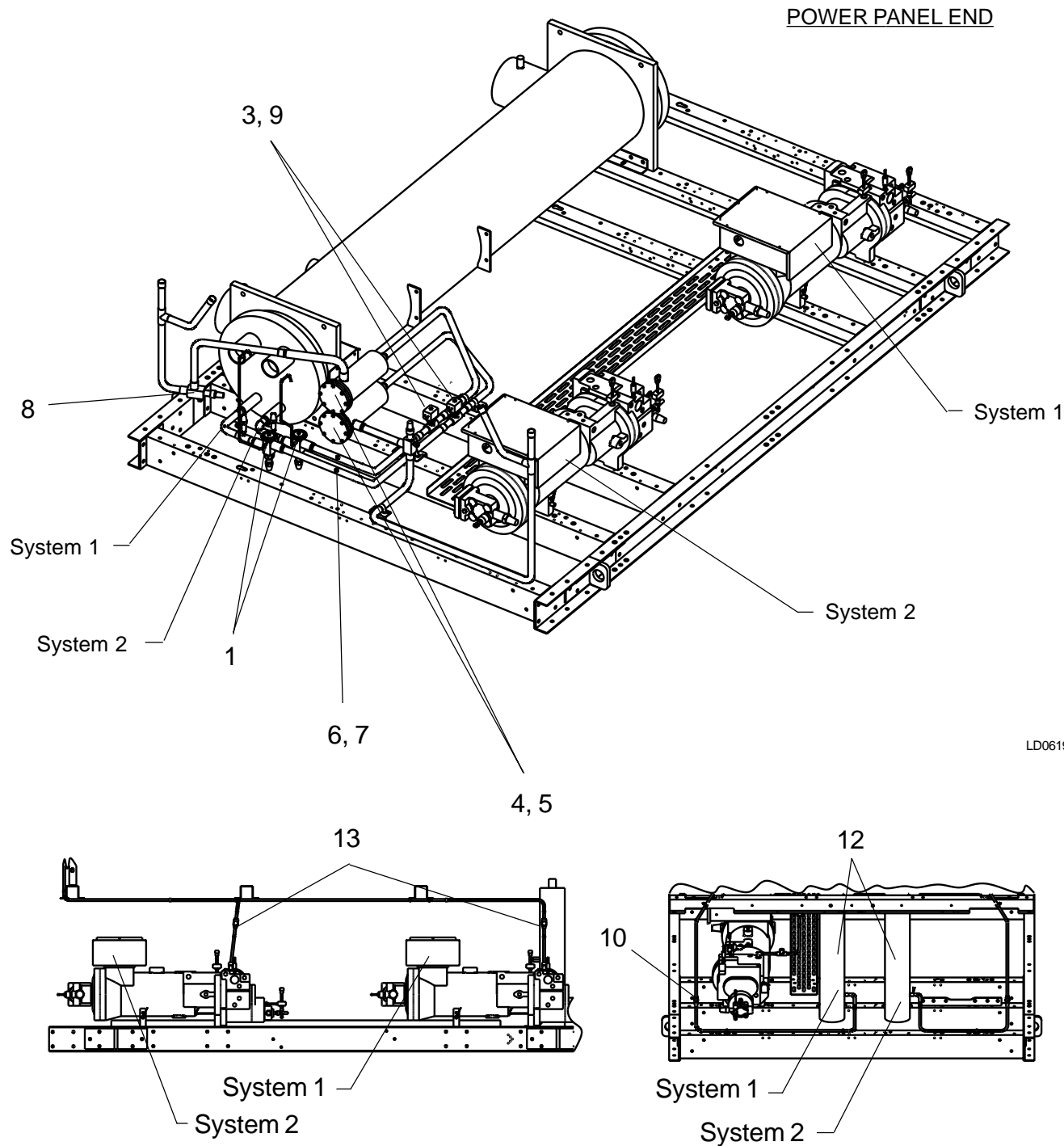
TABLE 5 – PIPING COMPONENTS (SEE FIG. 5, PAGE 11)

ITEM NO.	QTY PER UNIT	DESCRIPTION	SYSTEM	YCAS0283
1 ^s	2	Valve, Thermal Exp.- Cooler	Both	025-32904-000
2	1	Valve, Thermal Exp.- Econom.	N/A	N/A
3	1	Valve, Solenoid, Liq. Line	Both	025-33705-000
4	2	Dehydrator, Body (Replaceable Core)	Both	026-21055-000
5 ^s	2	Core, Dehydrator	Both	026-18328-000
6	1	Moisture Indicator, Body	Both	026-32398-000
7	2	Moisture Indicator, Sight Glass Cap Assembly	Both	026-32800-000
8	2	Valve, Liquid Stop	Both	022-10022-000
9	1	Valve, Solenoid, Liq. Line	Both	025-33705-000
10	4	Valve, Charging 3/8"	Both	022-09754-000
11	1	Economizer, Heat X	N/A	N/A
12	2 per circuit*	Oil Separator	Right Side Left Side	075-23738-002 075-23738-001
13	2	Valve, Ball, Oil Line	Both	022-09172-000
14	2	Valve, Solenoid, Econo	N/A	N/A

* 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 separators.

^s Recommended Spare Part

PIPING COMPONENTS (CONT'D) CHILLER MODEL YCAS0283



Piping

LD06191

FIG. 5 – PIPING COMPONENTS (REF. TABLE 5, PAGE 10)

PIPING COMPONENTS (CONT'D)
CHILLER MODEL YCAS0303

TABLE 6 – PIPING COMPONENTS (SEE FIG. 6, PAGE 13)

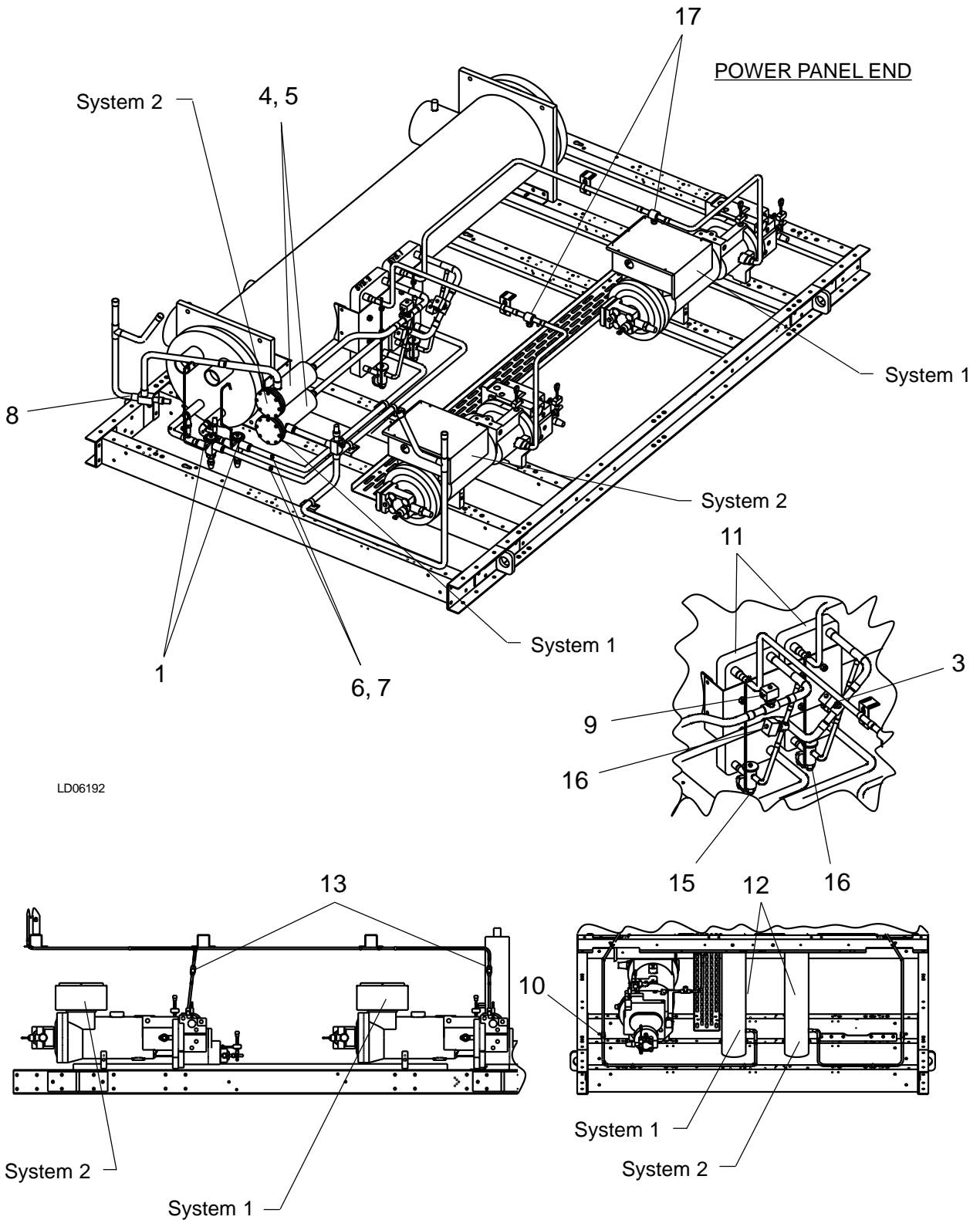
ITEM NO.	QTY PER UNIT	DESCRIPTION	SYSTEM	YCAS0303
1 ^s	2	Valve, Thermal Exp.- Cooler	Both	025-32904-000
2	1	Valve, Thermal Exp.- Econom.	N/A	N/A
3	1	Valve, Solenoid, Liq. Line	Both	025-33704-000
4	2	Dehydrator, Body (Replaceable Core)	Both	026-21055-000
5 ^s	2	Core, Dehydrator	Both	026-18328-000
6	1	Moisture Indicator, Body	Both	026-32398-000
7	2	Moisture Indicator, Sight Glass Cap Assembly	Both	026-32800-000
8	2	Valve, Liquid Stop	Both	022-09778-000
9	1	Valve, Solenoid, Liq. Line	Both	025-33705-000
10	4	Valve, Charging 3/8"	Both	022-09754-000
11	1	Economizer, Heat X	Both	026-36761-000
12	2 per circuit*	Oil Separator	Right Side Left Side	075-23738-002 075-23738-001
13	2	Valve, Ball, Oil Line	Both	022-09172-000
14	2	Valve, Solenoid, Econo	N/A	N/A
15	2	Valve, Solenoid	Both	025-34509-000
16	1	Valve, Thermal Exp.	Both	026-33280-000
17	2	Valve	Both	022-10023-000

* 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 separators.

^s Recommended Spare Parts

Piping

PIPING COMPONENTS (CONT'D) CHILLER MODEL YCAS0303



LD06192

FIG. 6 – PIPING COMPONENTS (REF. TABLE 6, PAGE 12)

PIPING COMPONENTS (CONT'D)
CHILLER MODEL YCAS0323

TABLE 7 – PIPING COMPONENTS (SEE FIG. 7, PAGE 15)

ITEM NO.	QTY PER UNIT	DESCRIPTION	SYSTEM	YCAS0323
1 ^s	1	Valve, Thermal Exp.- Cooler	Sys. 1	025-35757-000
2	1	Valve, Thermal Exp.- Econom.	Sys. 2	025-33280-000
3	1	Valve, Solenoid, Liq. Line	Sys. 1	025-33704-000
4	2	Dehydrator, Body (Replaceable Core)	Both	026-21055-000
5 ^s	2	Core, Dehydrator	Both	026-18328-000
6	2	Moisture Indicator, Body	Both	026-32398-000
7	2	Moisture Indicator, Sight Glass Cap Assembly	Both	026-32800-000
8	2	Valve, Liquid Stop	Both	022-09778-000
9	1	Valve, Solenoid, Liq. Line	Sys. 2	025-33705-000
10	4	Valve, Charging 3/8"	Both	022-09754-000
11	1	Economizer, Heat X	Sys. 2	026-36761-000
12	2 per circuit*	Oil Separator	Right Side Left Side	075-23738-002 075-23738-001
13	2	Valve, Ball, Oil Line	Both	022-09172-000
14	1	Valve, Solenoid	Sys. 2	025-34509-000
15	1	Valve, Thermal Exp.	Sys. 2	025-09795-000
16	1	Valve	Sys. 2	022-10023-000

* 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 separators.

^s Recommended Spare Part

Piping

PIPING COMPONENTS (CONT'D) CHILLER MODEL YCAS0323

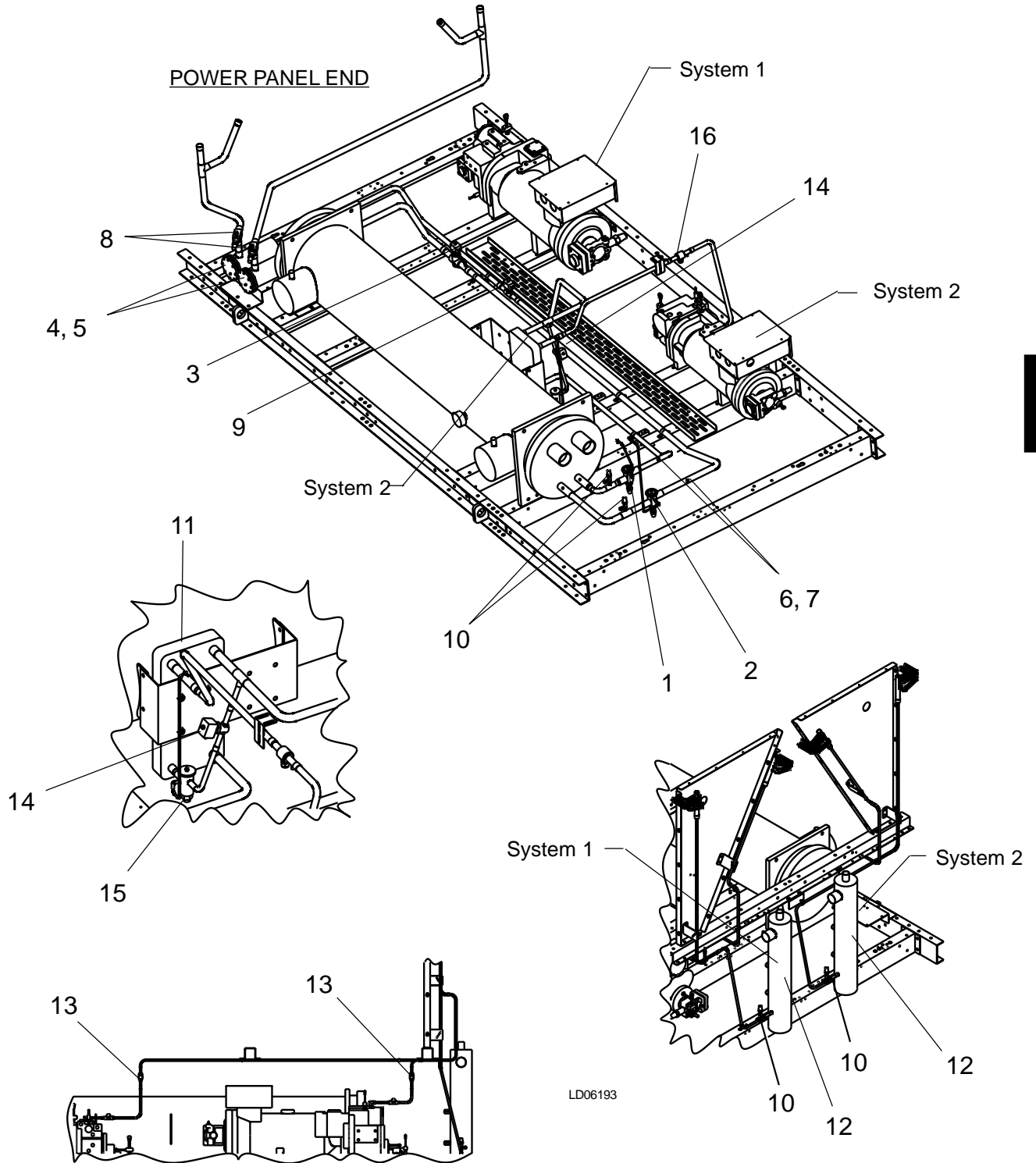


FIG. 7 – PIPING COMPONENTS (REF. TABLE 7, PAGE 14)

PIPING COMPONENTS (CONT'D)
CHILLER MODEL YCAS0343

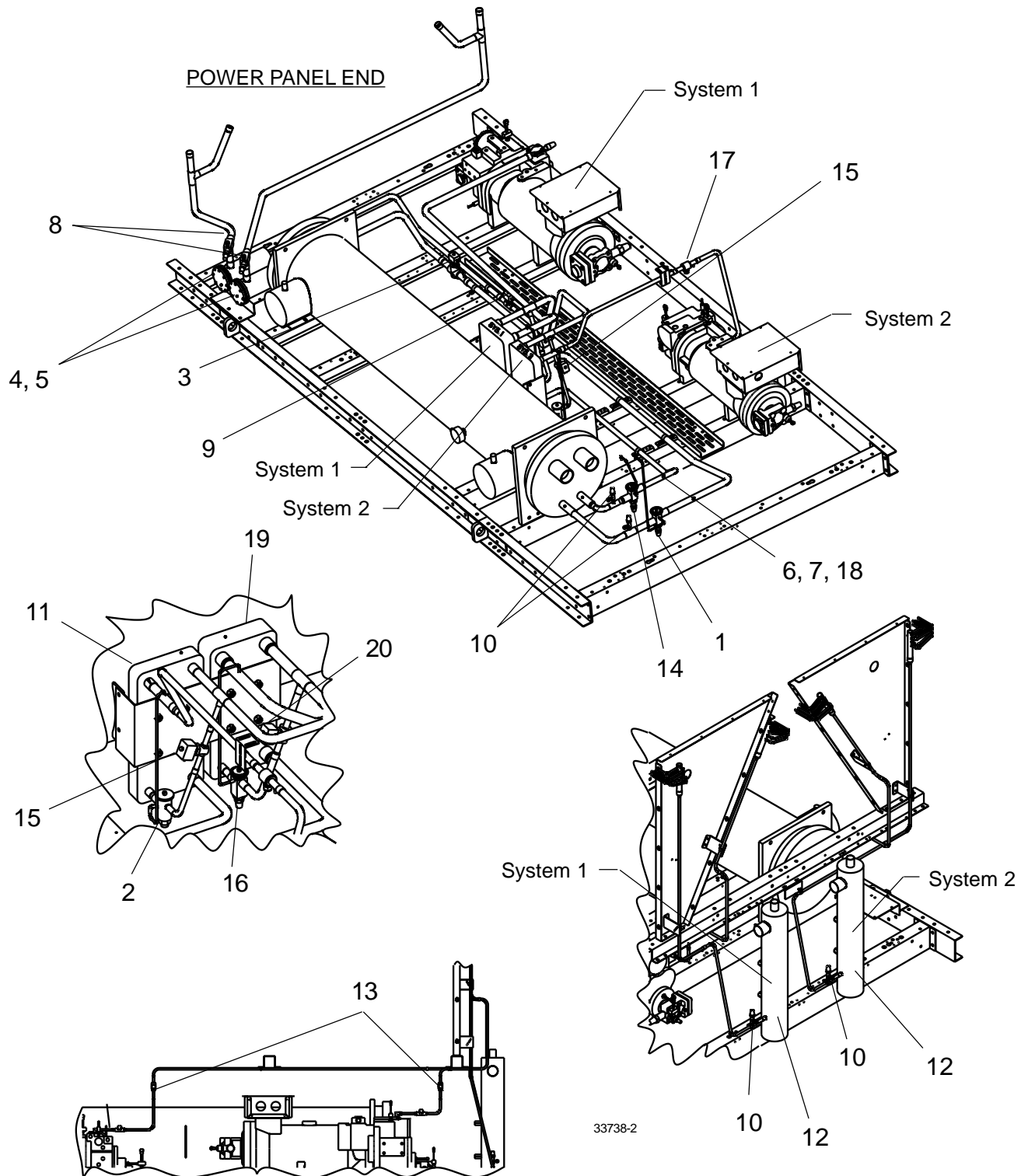
TABLE 8 – PIPING COMPONENTS (SEE FIG. 8, PAGE 17)

ITEM NO.	QTY PER UNIT	DESCRIPTION	SYSTEM	YCAS0343
1 ^s	1	Valve, Thermal Exp.- Cooler	Sys. 1	025-35757-000
2	1	Valve, Thermal Exp.- Econom.	Sys. 2	022-09795-000
3	1	Valve, Solenoid, Liq. Line	Sys. 1	025-33704-000
4	2	Dehydrator, Body (Replaceable Core)	Both	026-21055-000
5 ^s	4	Core, Dehydrator	Both	026-18328-000
6	1	Moisture Indicator, Body	Sys. 2	026-32398-000
7	2	Moisture Indicator, Sight Glass Cap Assembly	Both	026-32800-000
8	2	Valve, Liquid Stop	Both	022-09778-000
9	1	Valve, Solenoid, Liq. Line	Sys. 2	025-33705-000
10	4	Valve, Charging 3/8"	Both	022-09754-000
11	1	Economizer, Heat X	Sys. 2	026-36761-000
12	2 per circuit*	Oil Separator	Right Side Left Side	075-23738-002 075-23738-001
13	2	Valve, Ball, Oil Line	Both	022-09172-000
14	1	Valve, Thermal Exp.	Sys. 2	025-32904-000
15	1	Valve, Solenoid	Sys. 2	025-34509-000
16	1	Valve, Thermal Exp.	Sys. 1	025-33280-000
17	1	Valve	Sys. 2	022-10023-000
18	1	Moisture Indicator, Body	Sys. 1	026-32397-000
19	1	Heat Exchanger	Sys. 1	026-34418-000
20	1	Valve, Solenoid	Sys. 1	026-33282-000

* 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 separators.

^s Recommended Spare Part.

PIPING COMPONENTS (CONT'D) CHILLER MODEL YCAS0343



Piping

FIG. 8 – PIPING COMPONENTS (REF. TABLE 8, PAGE 16)

RELIEF VALVES AND HP CUTOUT SWITCH

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

Piping

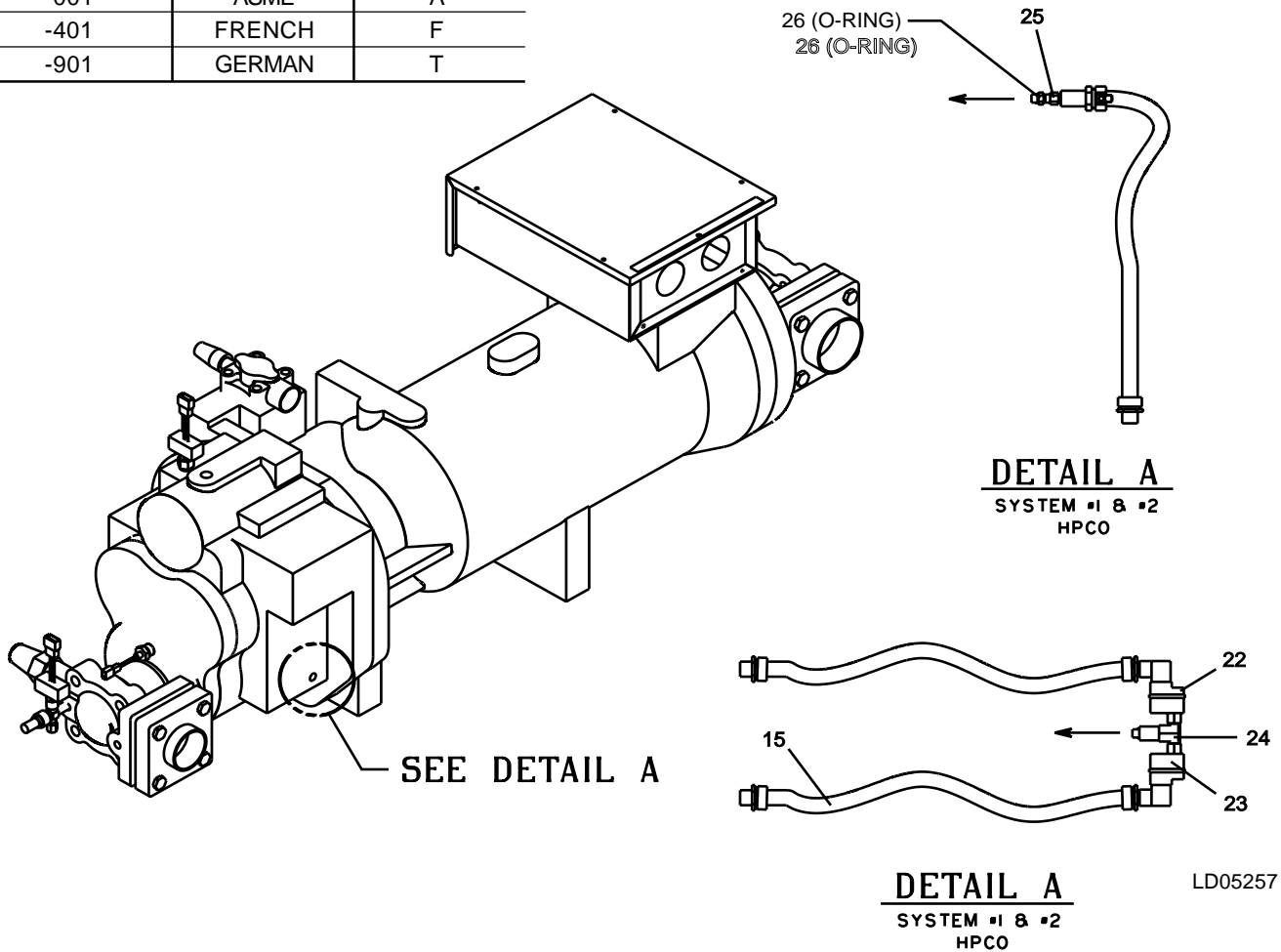
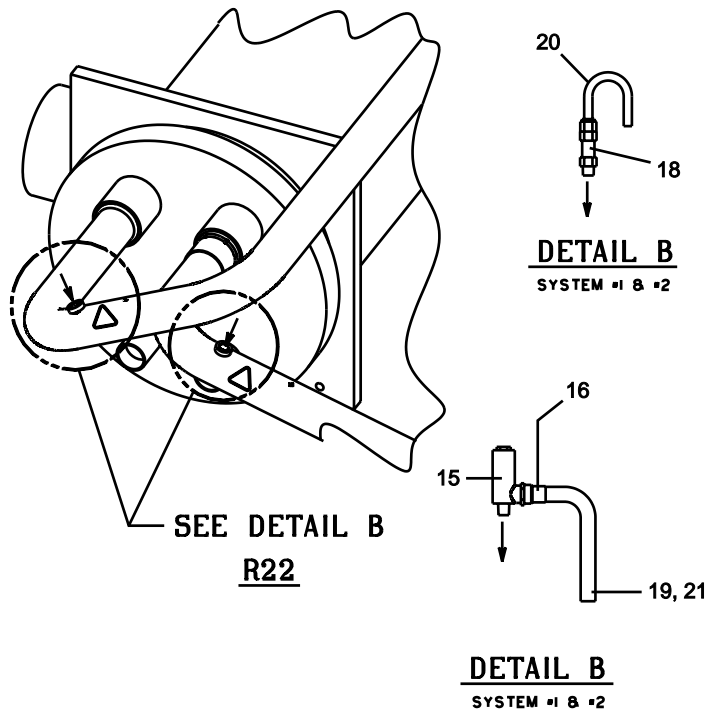


FIG. 9 – RELIEF VALVES AND HP CUTOUT SWITCH (REF. TABLE 9, PAGE 18)

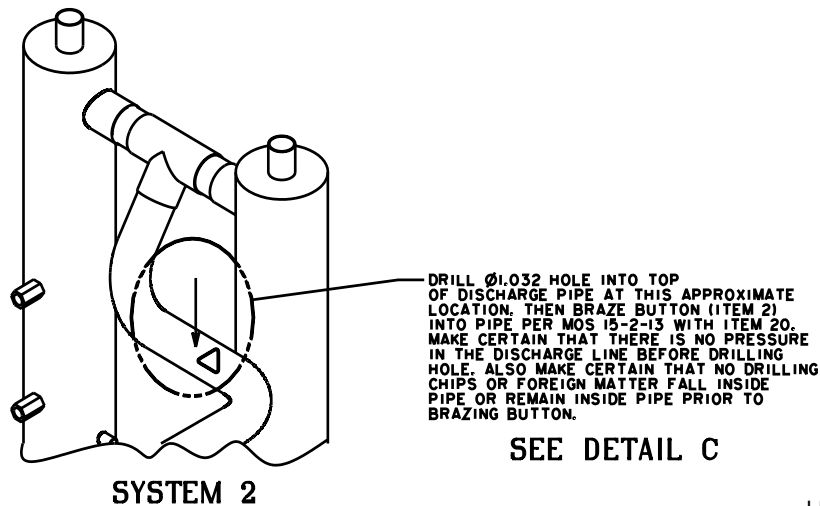
TABLE 9 – RELIEF VALVES AND HP CUTOUT SWITCH (SEE FIG. 9, PAGES 18 AND 19)

ITEM	QUANTITY PER CHILLER	DESCRIPTION	SYSTEM	ALL MODELS
15	2	Low Side Relief, Angle V 21 Bar	Both	022-09793-000
16	2	High Side Relief, Angle V 31 Bar	Both	022-09794-000
17	2	High Side Relief, Str Thru 405 PSIG	Both	022-08863-000
18	2	Low Side Relief, Str Thru 300 PSIG	Both	022-03056-000
19	2	Tube for 15, 16, 17	Both	075-30993-000
20	2	Tube for 18	Both	375-30919-000
21	2	Adapter for 15,16, 17	Both	023-00124-000
22	2	HP Sw, Man Reset 27.9 Bar	Both	025-34119-000
23	2	HP Sw, Man Reset 27.2 Bar	Both	025-34120-000
24	2	Tee for 22/23	Both	023-00972-000
25	2	HP Sw, NC, Auto Reset, 405 PSIG	Both	025-30480-000
26	2	O-Ring, 3-904	Both	028-13540-000

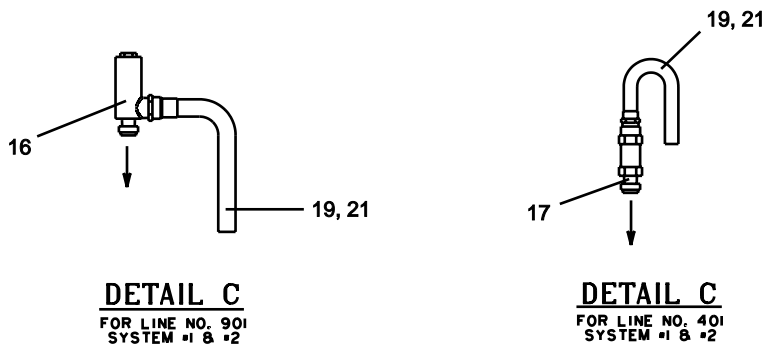
RELIEF VALVES AND HP CUTOUT SWITCH (CONT'D)



LD05269



LD05270

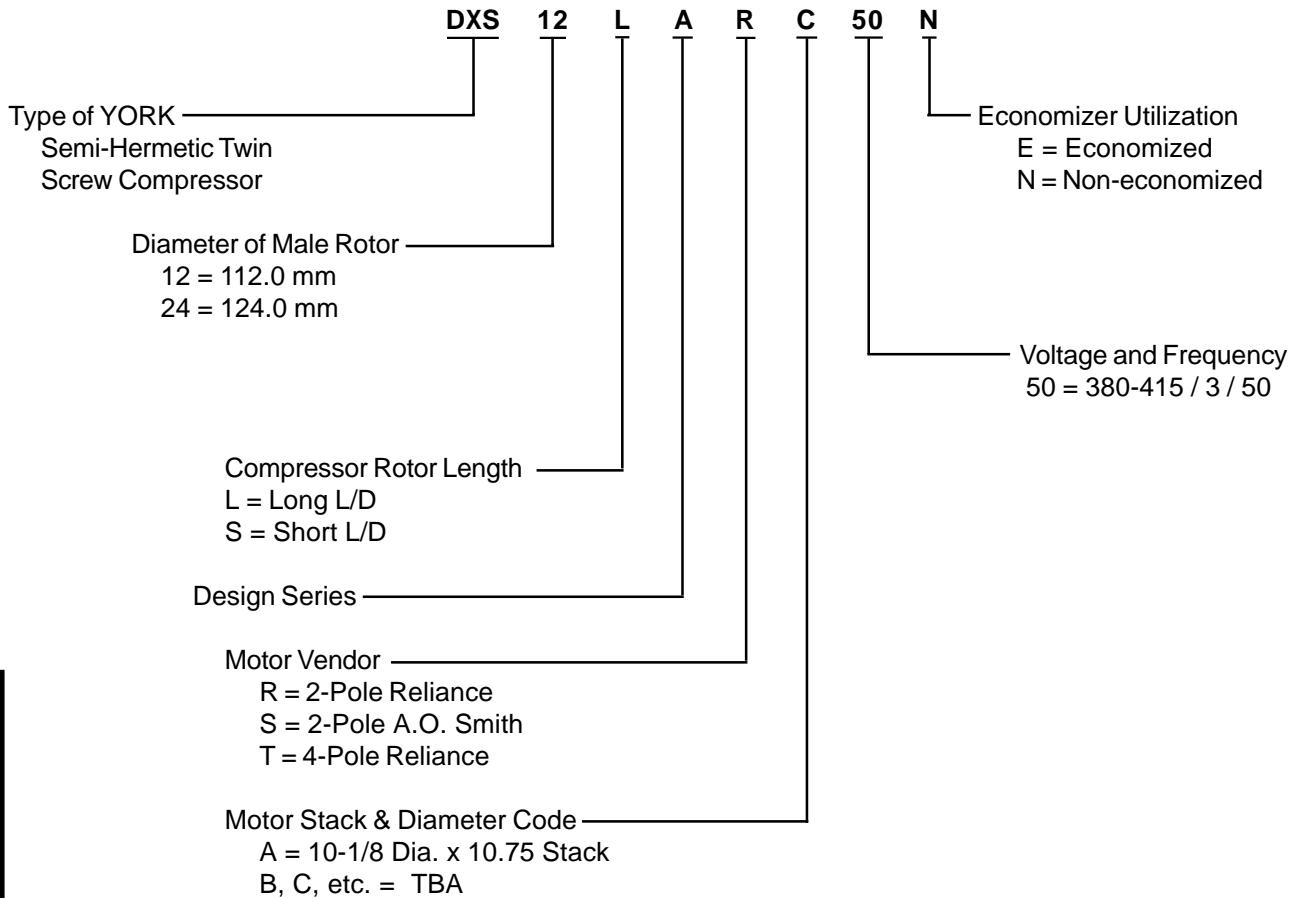


LD05271

Piping

FIG. 9 (CONT'D) – RELIEF VALVES AND HP CUTOUT SWITCH (REF. TABLE 9, PAGE 18)

COMPRESSOR MODEL NOMENCLATURE



Compressor

COMPRESSOR WEIGHTS		
MM SIZE	WEIGHT (LBS)*	Kg
112	760	345
124	1175	533

* LESS SERVICE VALVES

- Compressor Change Out Kit
(Includes gaskets and O-rings)
464-49737-000 one per each compressor
- Compressor Isolator Pad Kit
(Reduces sound and vibration)
475-37845-000 (124MM) one per each compressor or
475-37845-001 (112MM) one per each compressor
(Not required for compressor change out)

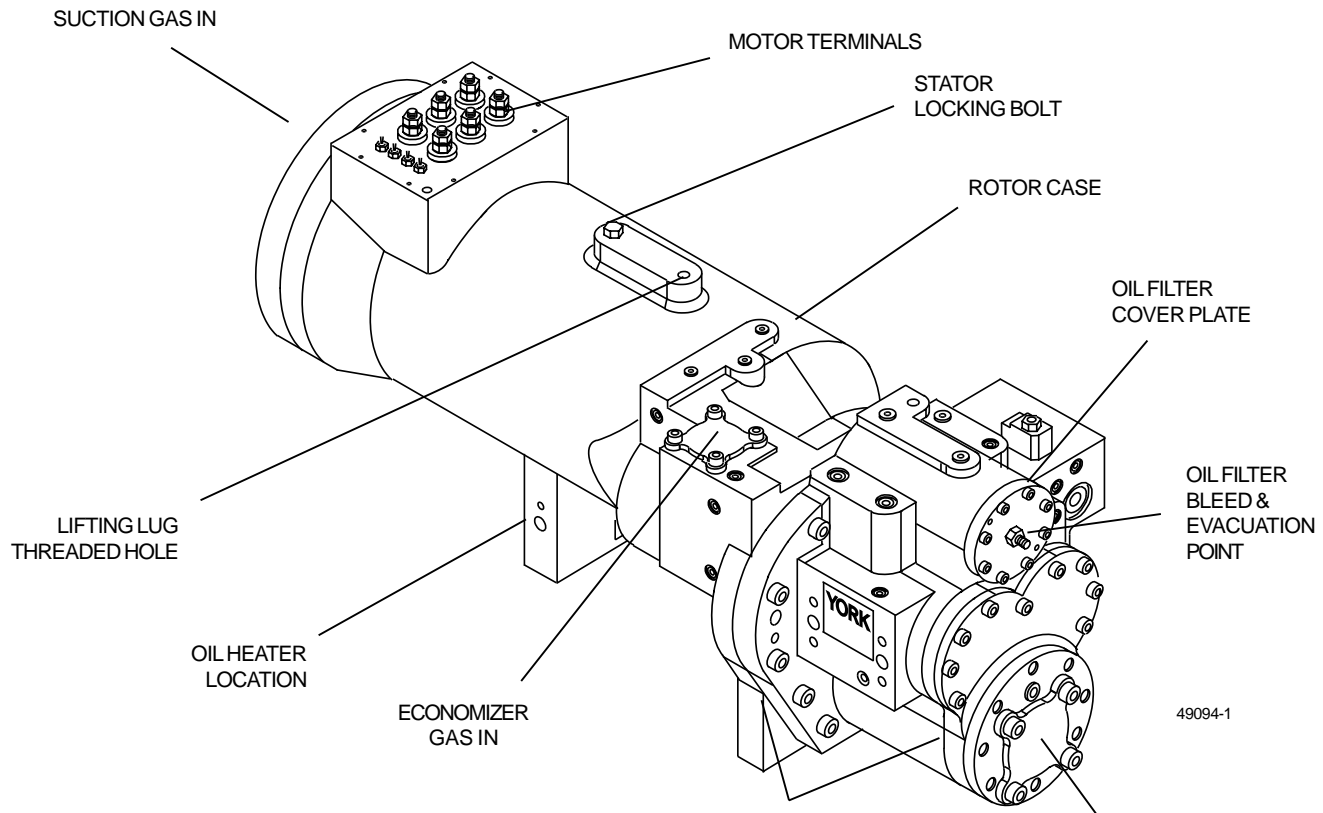
Note: Compressor feet hold-down bolts, tightened from the underside of the frame rails, must be removed when the isolator pad kit is installed.

COMPRESSOR PART NUMBERS

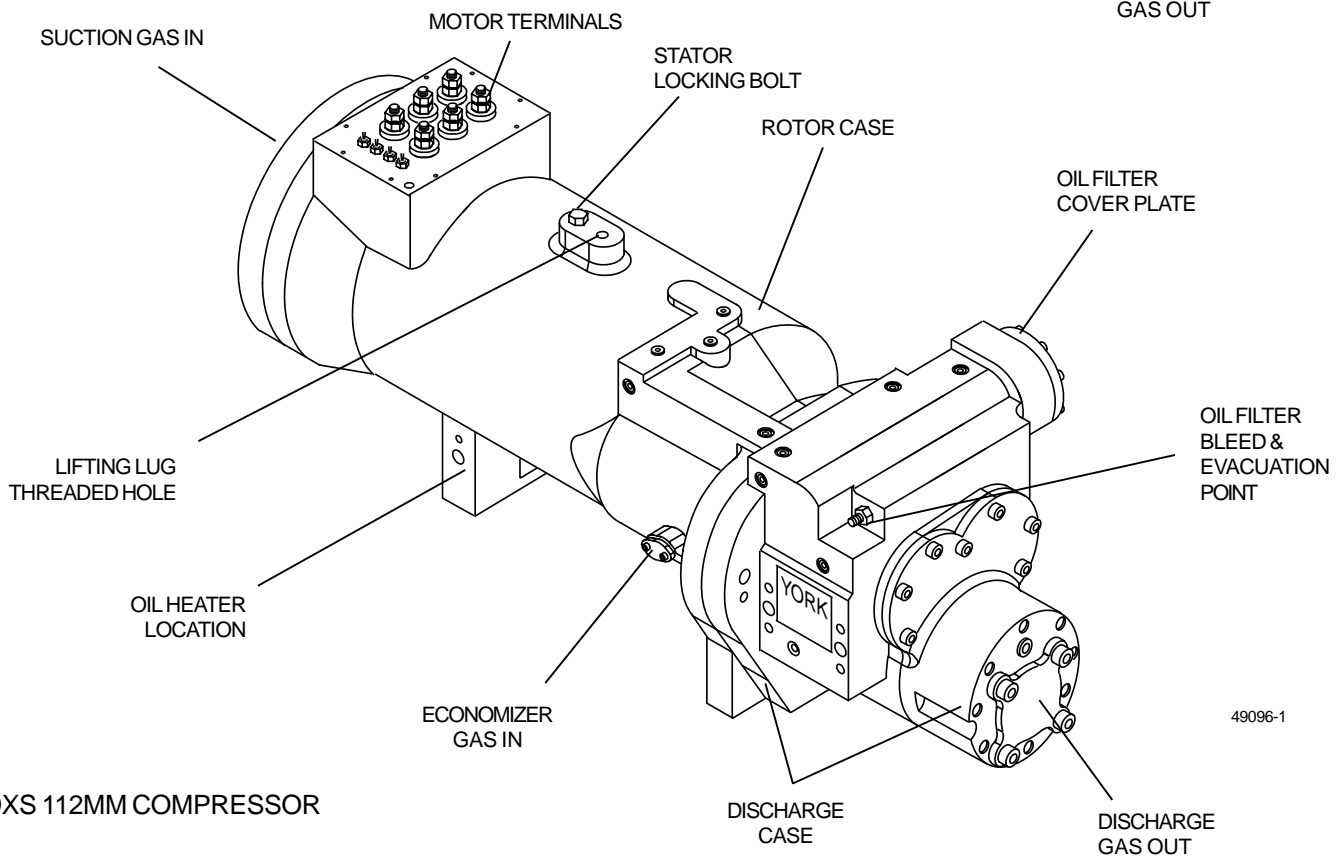
COMPRESSOR PART NUMBERS					
UNIT	VOLTAGE CODE	SIZE (MM)		COMPRESSOR	
		SYS 1	SYS 2	SYSTEM # 1	SYSTEM # 2
YCAS0283	-50	112	112	364-49096-215	364-49096-215
YCAS0303	-50	112	112	364-49096-215	364-49096-215
YCAS0323	-50	124	112	364-49095-215	364-49096-215
YCAS0343	-50	124	112	364-49095-215	364-49096-215

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

COMPRESSOR COMPONENTS



DXS 124MM COMPRESSOR



DXS 112MM COMPRESSOR

FIG. 10 – DXS COMPRESSOR OUTLINE

Compressor

COMPRESSOR COMPONENTS / RELATED PARTS

TABLE 10 – COMPRESSOR ASSEMBLY - 112MM COMPRESSOR (SEE FIG. 11)

ITEM NO.	PART DESCRIPTION	PART NUMBER
1	CASE, ROTOR/MOTOR	064-49122-000
2	ROTOR, MALE	064-48977-000
3	ROTOR, FEMALE	064-48978-000
5	PISTON, CAPACITY CONTROL	064-49438-000
7	KEY, MOUNTING	029-22911-000
8	SPRING, CAPACITY CONTROL	029-22908-000
9	BEARING, RADIAL	029-22905-000
13	BEARING, RADIAL	029-22735-000
14	RING, RETAINING	029-22743-000
33	GASKET, 7/8"	028-13948-000
34	PLATE, VALVE COVER	064-49441-000
35	SCREW, SOCKET HD. CAP - M8 x 25mm LG.	021-19615-000
36	O-RING 2 - 273	028-13950-000
41	O-RING 2 - 015	028-13858-000
42	VALVE, INTERNAL PRESSURE RELIEF	022-09711-000
202	PLUG, ECONOMIZER	064-49506-000
203	RING, SUPPORT	028-13961-000

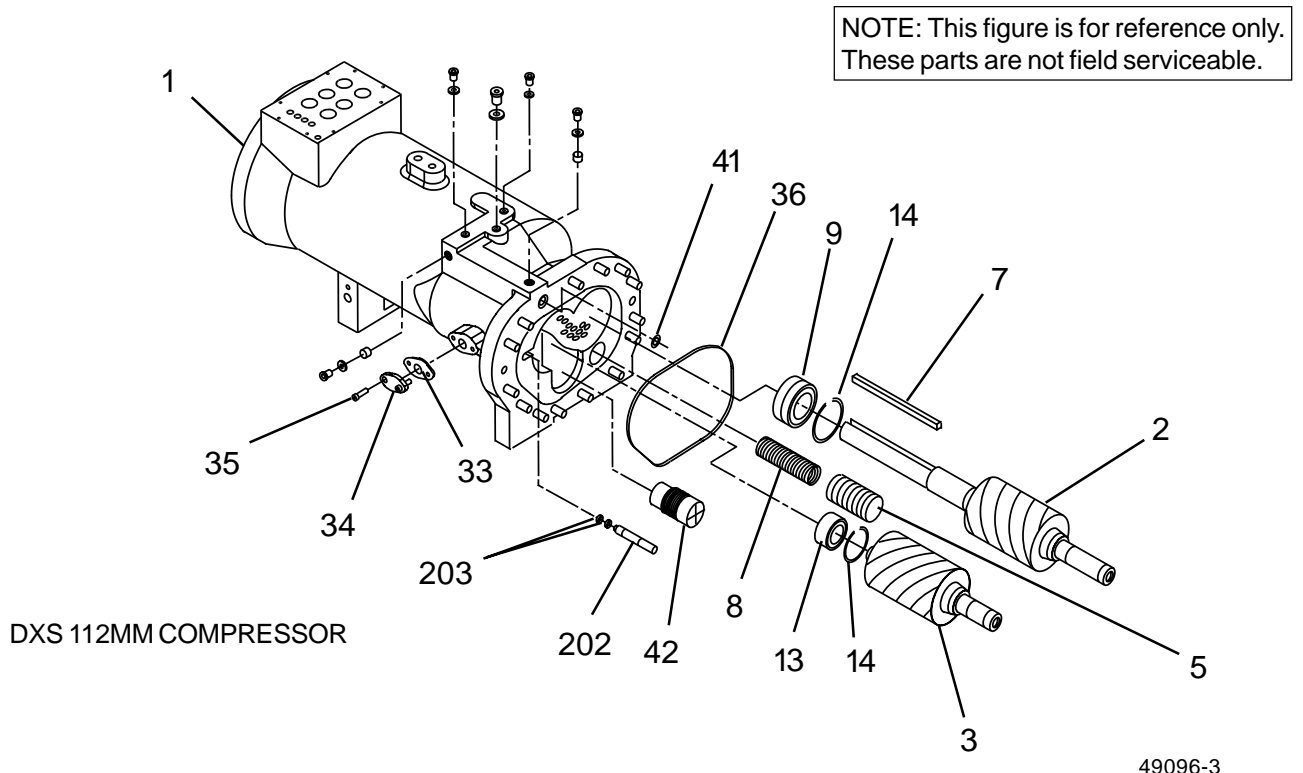


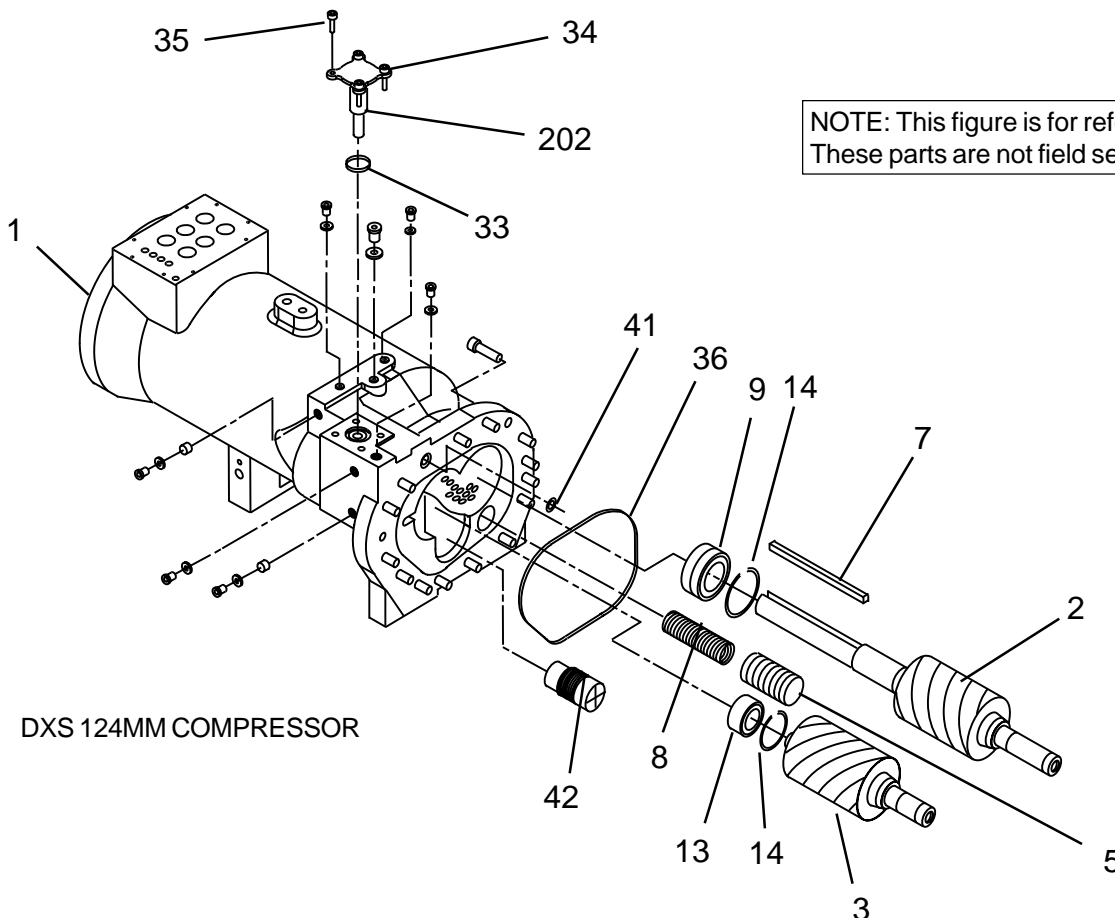
FIG. 11 – COMPRESSOR PARTIAL EXPLODED VIEW (REF. TABLE 10)

COMPRESSOR COMPONENTS / RELATED PARTS (CONT'D)

TABLE 10A – COMPRESSOR ASSEMBLY - 124MM COMPRESSOR (SEE FIG. 11A)

ITEM NO.	PART DESCRIPTION	PART NUMBER
1	CASE, ROTOR/MOTOR (124MM)	064-48989-000
2	ROTOR, MALE (124MM)	064-48975-000
3	ROTOR, FEMALE (124MM)	064-48976-000
5	PISTON, CAPACITY CONTROL	064-49332-000
7	KEY, MOUNTING	029-22741-000
8	SPRING, CAPACITY CONTROL	029-22718-000
9	BEARING, MALE INLET	029-22734-000
13	BEARING, FEMALE INLET	029-22735-000
14	RING, RETAINING (MALE ROTOR)	029-22742-000
	RING, RETAINING (FEMALE ROTOR)	029-22743-000
33	O-RING 2 - 138	028-13963-000
34	PLATE, VALVE COVER	064-50004-000
35	SCREW, SOCKET HD. CAP - M16 x 65mm LG.	021-19108-000
36	O-RING 3 - 904	028-13852-000
41	O-RING 2 - 015	028-13856-000
42	VALVE, INTERNAL PRESSURE RELIEF	022-09711-000
202	PLUG, ECONOMIZER	064-50004-000

Compressor

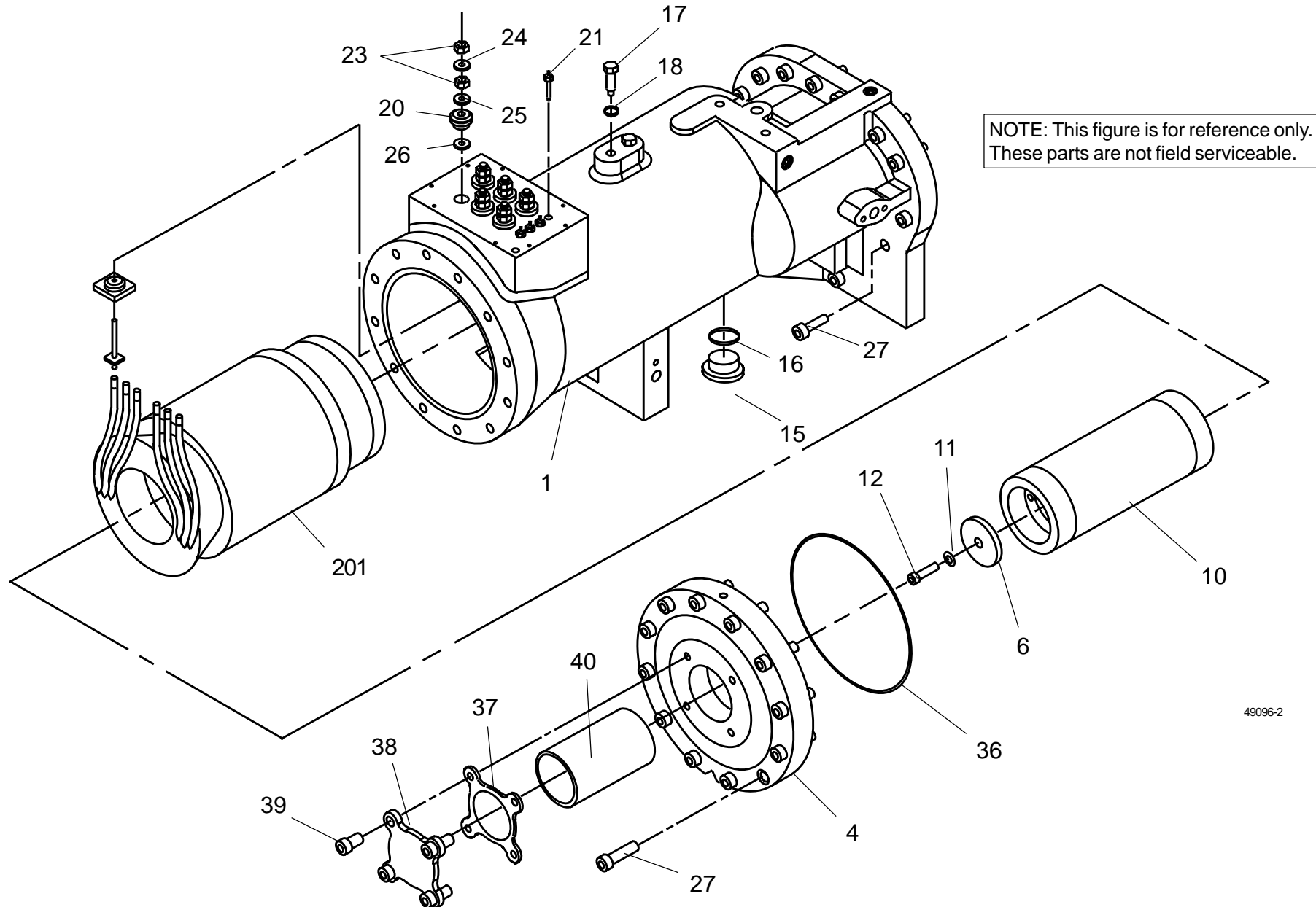


NOTE: This figure is for reference only. These parts are not field serviceable.

49094-3

FIG. 11A – COMPRESSOR PARTIAL EXPLODED VIEW (REF. TABLE 10A)

COMPRESSOR COMPONENTS / RELATED PARTS (CONT'D)

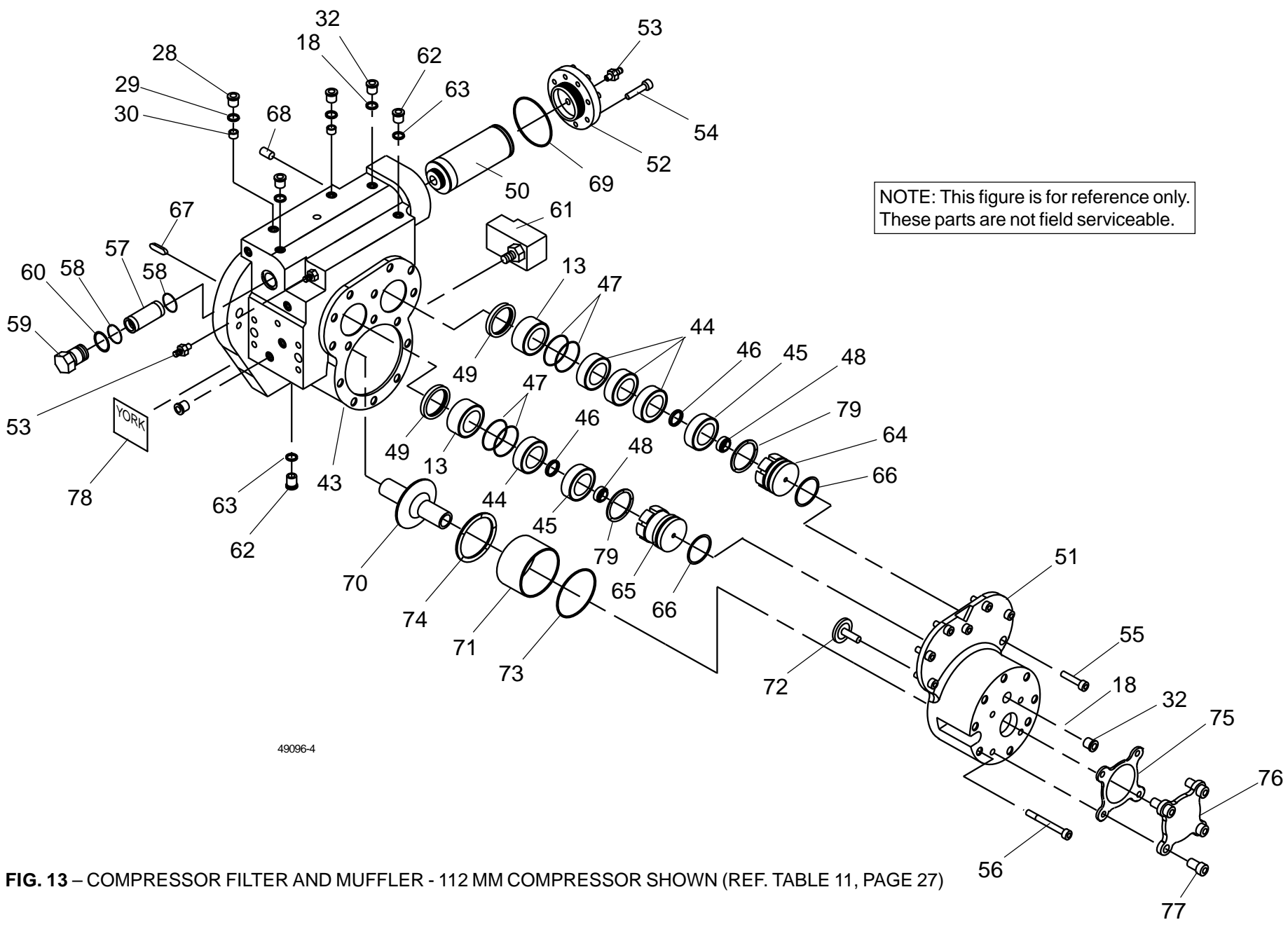


25 FIG. 12 – COMPRESSOR COMPONENTS - 112 MM COMPRESSOR SHOWN (REF. TABLE 11, PAGE 27)

Compressor

49096-2

COMPRESSOR COMPONENTS / RELATED PARTS (CONT'D)



49096-4

FIG. 13 – COMPRESSOR FILTER AND MUFFLER - 112 MM COMPRESSOR SHOWN (REF. TABLE 11, PAGE 27)

COMPRESSOR COMPONENTS / RELATED PARTS (CONT'D)

TABLE 11 – COMPRESSOR ASSEMBLY (SEE FIGS. 12 AND 13, PAGES 25 AND 26)

ITEM NO.	PART DESCRIPTION	122 MM	124 MM
1	CASE, ROTOR/MOTOR	064-49122-000	064-49121-000
4	COVER, SUCTION	064-49437-000	064-49375-000
6	WASHER, CLAMP	064-49439-000	064-48893-000
10	ROTOR, MOTOR	024-30912-000	024-30905-000
11	WASHER, LOCK - M10	021-19364-000	021-19106-000
12	SCREW, SOCKET HD. CAP - M10 x 40mm LG.	021-19363-000	021-19114-000
13	BEARING, RADIAL	029-22735-000	029-22704-000
15	PLUG - HOLLOW HEX 1-7/8"	023-18926-000	023-18926-000
16	O-RING 3-924	028-13865-000	028-13865-000
17	PIN, STATOR LOCKING	064-49129-000	064-49554-000
18	O-RING 3 - 908	028-13856-000	028-13856-000
19	INSULATOR, BOTTOM	025-33200-000	025-33200-000
20	INSULATOR, TOP	025-33201-000	025-33201-000
21	THERMISTOR, 7/16" - 20UNF - 2A	025-33202-000	025-33202-000
22	BOLT, TERMINAL	021-19104-000	021-19104-000
23	NUT, HEAVY HEX - 7/16" - 20UNF	021-19102-000	021-19102-000
24	WASHER, LOCK - 7/16"	021-19619-000	021-19619-000
25	WASHER, TERMINAL	021-19117-000	021-19117-000
26	SEAL, TERMINAL	028-13946-000	028-13946-000
27	SCREW, SOCKET HD. CAP - M12 x 55mm LG.	021-19614-000	021-19108-000
28	PLUG - HOLLOW HEX 9/16"	023-18922-000	023-18922-000
29	O-RING 3 - 906	028-13855-000	028-13855-000
30	PLUG - 0.032 ORIFICE	029-22716-000	029-22716-000
32	PLUG, HOLLOW HEX - 3/4"	023-18923-000	023-18923-000
36	O-RING 2 - 273	028-13950-000	028-13852-000
37	GASKET, 3	028-13863-000	028-13863-000
38	PLATE, VALVE COVER	064-49008-000	064-49008-000
39	SCREW, SOCKET HD. CAP - M16 x 30mm LG.	021-19118-000	021-19118-000
40	STRAINER, SUCTION	026-35623-000	026-35623-000
43	CASE, DISCHARGE	064-49124-000	064-49125-000
44	BEARING, THRUST - 7306	029-22906-000	029-22736-000
45	BEARING, REVERSE THRUST - 6306	029-22907-000	029-22737-000
46	SHIM, REVERSE THRUST SPACER (0.040)	029-22909-000	029-22900-000
47	SHIM, SPACER (0.007)	029-22910-000	029-22993-000
48	NUT, BEARING CLAMP	021-19362-000	021-19360-000
49	SEAL, LIP	028-13949-000	028-13868-000
50	ELEMENT, OIL FILTER	026-35601-000	026-35601-000
51	COVER, DISCHARGE	064-49123-000	064-49005-000

COMPRESSOR COMPONENTS / RELATED PARTS (CONT'D)

TABLE 11 – COMPRESSOR ASSEMBLY - CONT'D (SEE FIGS. 12 AND 13, PAGES 25 AND 26)

ITEM NO.	PART DESCRIPTION	112 MM	124 MM
52	COVER, OIL FILTER	064-49003-000	064-49003-000
53	VALVE, ACCESS - 7/16"	022-09715-000	022-09715-000
54	SCREW, SOCKET HD. CAP - M8 x 30mm LG.	021-19115-000	021-19115-000
55	SCREW, SOCKET HD. CAP - M8 x 35mm LG.	021-19617-000	021-19112-000
56	SCREW, SOCKET HD. CAP - M8 x 80mm LG.	021-19616-000	021-19113-000
57	VALVE, OIL CONTROL	022-09710-000	022-09710-000
58	O-RING 2 - 023	028-13859-000	028-13859-000
59	PLUG, OIL RETURN VALVE	064-49135-000	064-49135-000
60	O-RING 3 - 916	028-13857-000	028-13857-000
61	VALVE, CAPACITY CONTROL	025-33205-000	025-33205-000
62	PLUG - HOLLOW HEX 7/16"	023-18921-000	023-18921-000
63	O-RING 3 - 904	028-13854-000	028-13854-000
64	SLEEVE, M.R. SPACER BEARING	064-49511-000	064-49339-000
65	SLEEVE, F.R. SPACER BEARING	064-49512-000	064-49340-000
66	O-RING 2 - 148	028-13947-000	028-13848-000
67	PIN, DOWEL - 12mm x 40mm LG. (SPECIAL)	029-22712-000	029-22712-000
68	PIN, DOWEL - 12mm x 40mm LG.	029-22713-000	029-22713-000
69	O-RING 2 - 152	028-13849-000	028-13849-000
70	ORIFICE, MUFFLER	064-49515-000	064-49519-000
71	SPACER, MUFFLER	064-49514-000	064-49520-000
72	BUTTON, CHECK VALVE	064-49507-000	064-49521-000
73	O-RING 2 - 155	028-13962-000	028-13903-000
74	SPRING, MUFFLER PRELOAD	029-22912-000	029-22902-000
75	GASKET (112MM 1-1/2")(124MM 3")	028-13862-000	028-13863-000
76	PLATE, VALVE COVER	064-49010-000	064-49379-000
77	SCREW, SOCKET HD. CAP - M12 x 30mm LG.	021-19119-000	021-19118-000
78	PLATE, DATA	029-22722-000	029-22722-000
79	SPRING, BEARING PRELOAD	029-22913-000	029-22903-000
201	STATOR, MOTOR - 50	024-30911-004	024-30469-004

**TABLE 12 – COMPRESSOR OIL AND FILTER COMPONENTS
(SEE FIG. 13, PAGE 26)**

ITEM NO.	QTY PER COMP	DESCRIPTION	MODEL YCAS0283 - YCAS0343
50 ^S	1	FILTER,OIL	026-35601-000
69 ^S	1	O-RING	028-13849-000
OIL ^S	5 GAL	OIL, TYPE L POE	011-00592-000

^SRecommended Spare Part

COMPRESSOR COMPONENTS / RELATED PARTS (CONT'D)

TABLE 13 – COMPRESSOR AND CONTROL COMPONENTS (SEE FIG. 14)

ITEM NUMBER	QUANTITY	SYSTEM	DESCRIPTION	VOLTAGE CODE	PART NUMBER
17	2	1, 2	Lock Pin, Stator, EC 1099	ALL	064-49129-000
18	2	1, 2	O-ring, Lock Pin	ALL	028-13856-000
61 ^s	2	1, 2	Valve, Capacity Control	ALL	025-33205-000
204	2	1, 2	Heater, Compressor 124	120V	025-32938-000
			Heater, Compressor 112	120V	025-34511-000

^s Recommended Spare Part

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

ITEM NO.	DESCRIPTION	APPLICATION	PART NUMBER
205	Stop Valve, 1-3/8	112mm discharge; 124mm	022-03727-003
206	Gasket, 1-3/8 Valve	Economizer Port	028-13972-000
205	Stop Valve, 2-1/8	124mm discharge	022-01393-001
206	Gasket, 2-1/8		028-13971-000
205	Stop Valve, 2-5/8	112mm and 124mm suction	022-09777-001
206	Gasket, 2-5/8 Valve		028-13973-000

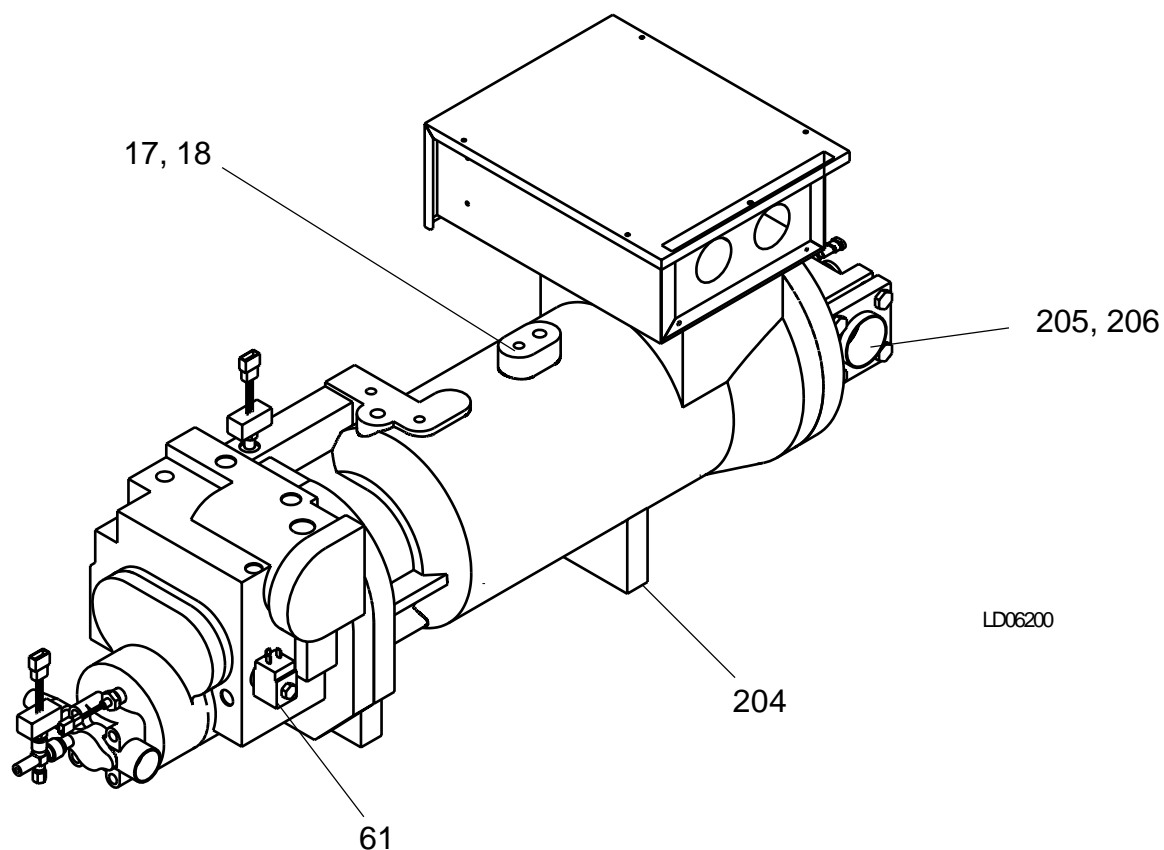


FIG. 14 – COMPRESSOR AND CONTROL COMPONENTS - 112MM SHOWN (REF. TABLES 13 AND 14)

CONTROL PANEL COMPONENTS

TABLE 15 – CONTROL PANEL COMPONENTS (SEE FIGS.15 AND 16, PAGES 31 AND 32)

ITEM NO.	QUANTITY	DESCRIPTION	PART NO.	NOTE
1	1	Door for Micro-Compartment	RAM-202310	2-Piece Bolted Control/Option Panel
	1	Door for Options Compartment	RAM-202311	
1	1	Door for Micro-Compartment	N/A	1-Piece Control/Option Panel
	1	Door for Options Compartment	N/A	
2	1	MicroBoard	031-01095-002	
3	1	Power Supply Board	031-01094-000	
4	2	Relay Circuit Board	031-01093-000	
5	1	Transformer, Control 2T	025-27911-000	
6	1	Kit, Terminal Block	025-33760-000	
7	1	Kit, Terminal Block	025-33761-000	
8	2	Catch, Magnetic (Not Shown)	029-20878-000	
10	1	Tag, Identification	035-15183-000	
15	3	Circuit Breaker, 6A	024-30913-000	
17	2	Strap, Cable	025-18167-000	
18	1	Transformer, Control 3T	025-18452-000	
22	2	Switch, On/Off	024-25517-000	
23	1	Display	031-01110-000	
24	1	Ribbon Cable	071-02253-251	
25	4	Ribbon Cable	071-02253-252	
26	1	Ribbon Cable	071-02253-253	
27	3	Clamp, Ribbon Wire	025-25156-000	
28	1	Transformer, Control 4T	025-30889-000	
29	4	Spacer, Nylon	021-17575-000	
30	1	Harness, Hinged Panel	571-01226-211	
31	1	Harness, Main Panel	571-02253-201	
32	1	Connector, Cable Strap	025-08301-000	
33	1	Relay, Control	024-25598-000	
34	1	EPROM	031-01798-001	
35	1	Label, Caution	035-15989-000	
36	1	Label, Warning	035-11929-000	
37	2	Connector, Cable Strap	025-12282-000	
38	1	I/O Expansion Board	031-01781-000	
39	1	Ribbon Cable	071-02253-254	
40	-	Plug, 6 Pin (Microboard)	025-28382-000	See Page 33
41	-	Plug, 9 Pin (Microboard)	025-28383-000	See Page 33
42	-	Plug, 12 Pin (Microboard)	025-28384-000	See Page 33

Control Panel

CONTROL PANEL COMPONENTS (CONT'D)

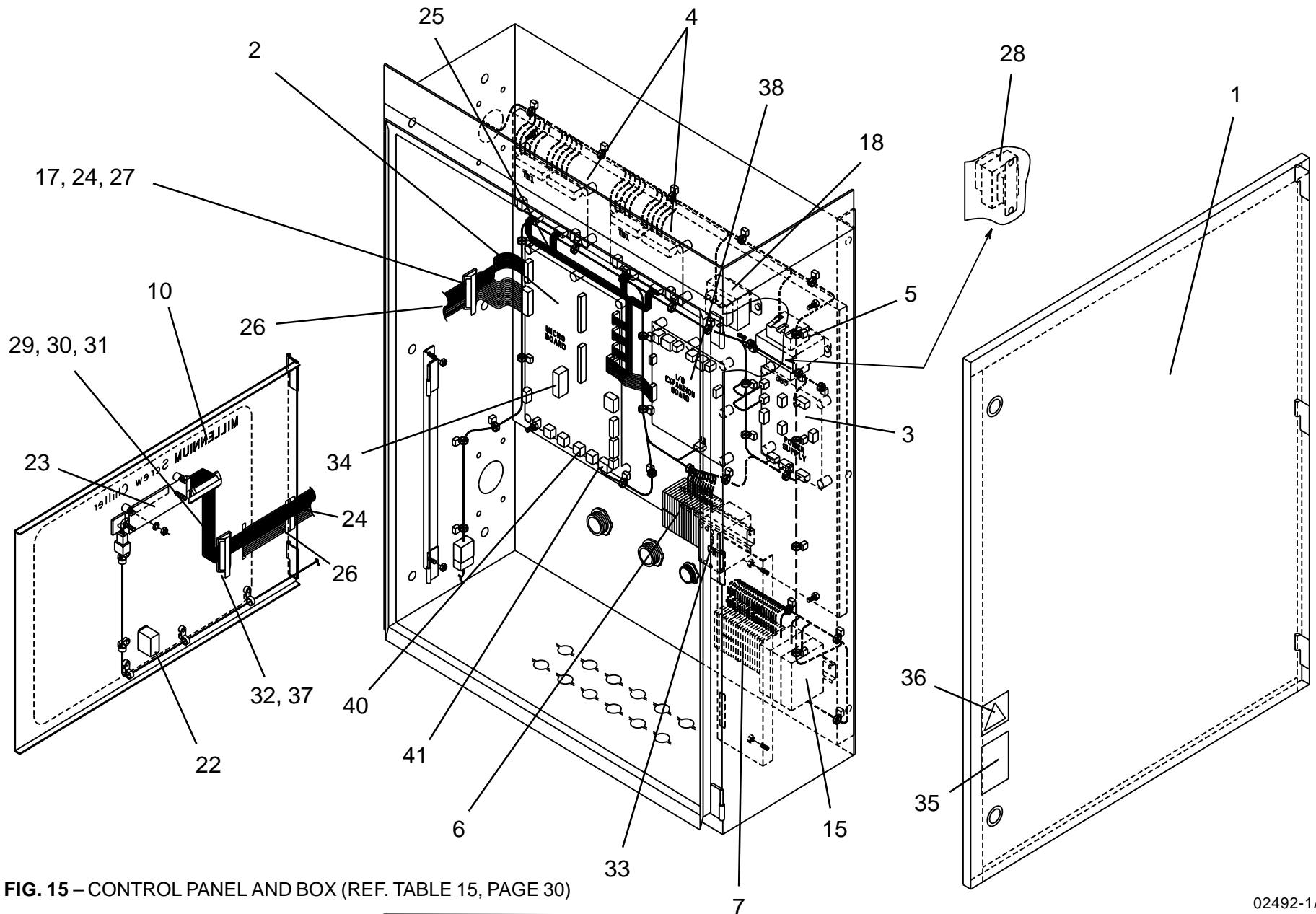


FIG. 15 – CONTROL PANEL AND BOX (REF. TABLE 15, PAGE 30)

CONTROL PANEL COMPONENTS (CONT'D)

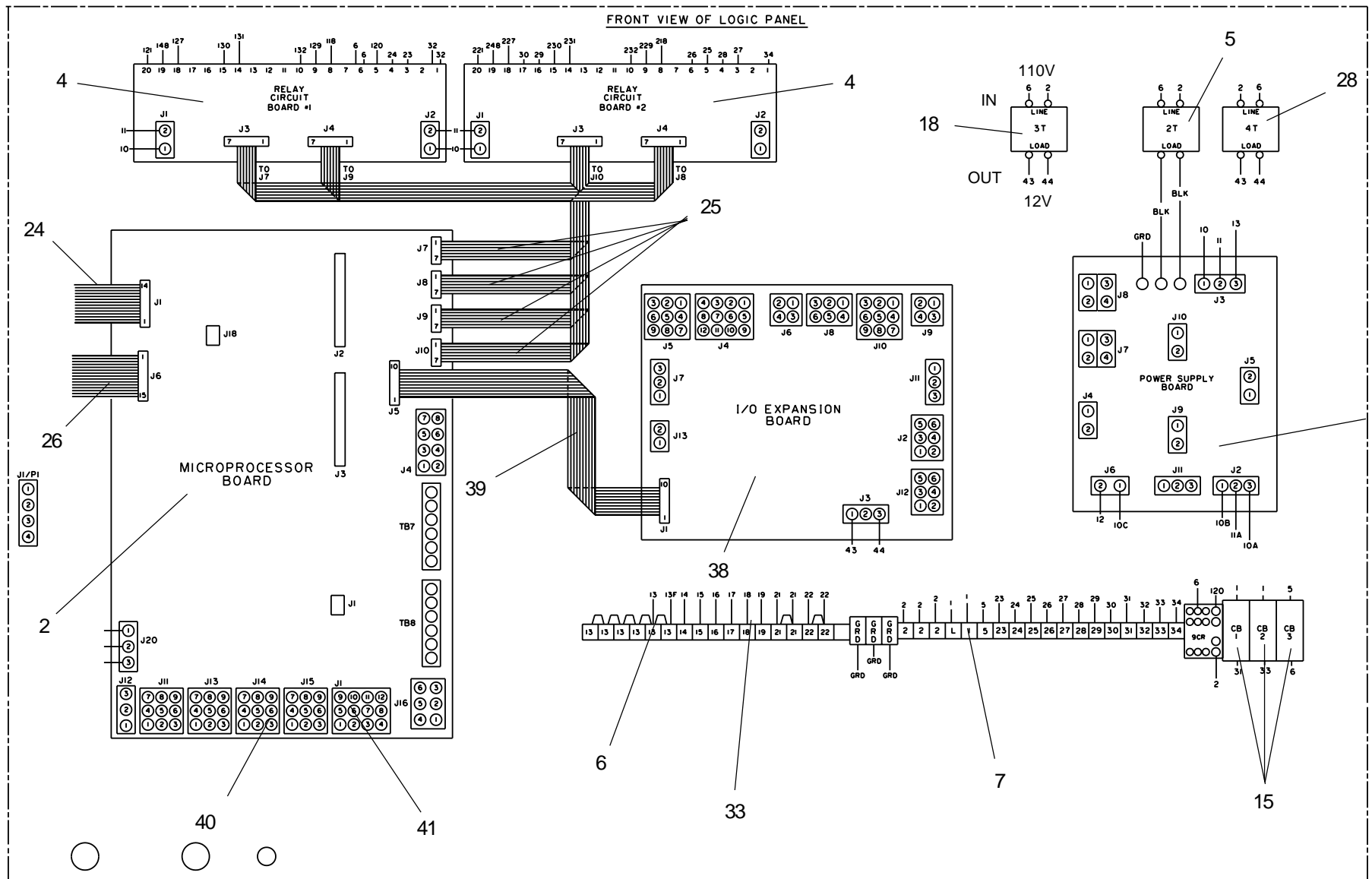


FIG. 16 – CONTROL PANEL CONNECTION DIAGRAM (REF. TABLE 15, PAGE 30)

02492-1B

SENSOR HARNESS CHILLER MODELS YCAS0283, 0303, 0323 AND 0343

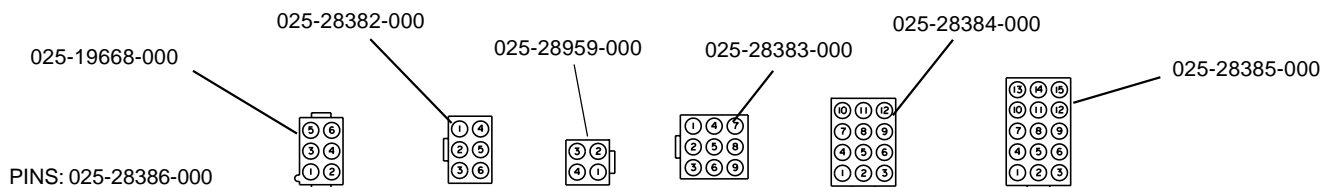
TABLE 16 – SENSOR HARNESS WIRING (SEE FIGS. 18 AND 19, PAGES 34 AND 35)

BOARD LOCATION	CABLE NO.	WIRE COLOR	PLUG PIN NO.	FUNCTION	HARNESS ASSY	
MICRO P13	1	RED	4	SYS #1 SUCTION PRESSURE	375-33776-401	
		BLK	1			
		WHT	7			
	2	2	DRAIN	2	SYS #1 OIL PRESSURE	375-33776-403
			RED	5		
			BLK	3		
MICRO P14		3	WHT	8	SYS #2 SUCTION PRESSURE	375-33776-402
			DRAIN	2		
			RED	4		
	4	4	BLK	1	SYS #2 OIL PRESSURE	375-33776-404
			WHT	7		
			DRAIN	2		
MICRO P11		5	RED	5	LEAVING CHILLED WATER	375-33776-415
			BLK	3		
			DRAIN	1		
	6	RED	8	ENTERING CHILLED WATER	375-33776-416	
		BLK	5			
		DRAIN	2			
	7	RED	9	OUTSIDE AIR TEMP.	375-33776-417	
		BLK	6			
		DRAIN	3			
MICRO P15	8	RED	5	SYS #1 DISCH. PRESSURE	375-33776-405	
		BLK	3			
		WHT	8			
	9	RED	4	SYS #2 DISCH. PRESSURE	375-33776-406	
		BLK	1			
		WHT	7			
MICRO P16	10	DRAIN	2	SYS #1 SUCTION TEMP.	375-33776-411	
		RED	5			
		BLK	6			
	11	RED	2	SYS #2 SUCTION TEMP.	375-33776-412	
		BLK	4			
		DRAIN	3			
I/O P10	16	RED	4	SYS #1 OIL TEMP.	375-33776-421	
		BLK	7			
		DRAIN	3			
17	RED	5	SYS #2 OIL TEMP.	375-33776-422		
	BLK	6				
	DRAIN	2				
I/O P8	12	RED	2	SYS #1 DISCH. TEMP.	375-33776-413	
		BLK	4			
		DRAIN	1			
13	RED	5	SYS #2 DISCH. TEMP.	375-33776-414		
	BLK	6				
	DRAIN	3				
I/O P2	31	RED (47)	1	SYS #1 SLIDE VALVE	375-33776-423	
		BLK (48)	2			
		DRAIN	6			
I/O P12	32	RED (49)	1	SYS #1 SLIDE VALVE	375-33776-424	
		BLK (50)	2			
		DRAIN	6			

Control Panel

Note:

Harness comes with plug for sensor connection. Individual plug and sockets for Microboard and I/O board connections must be ordered separately when needed. (See below)



**I/O EXPANSION & MICROPROCESSOR
BOARD PLUGS AND PINS**

LD06203

FIG. 17 – SENSOR HARNESS PLUGS AND PINS

SENSOR HARNESS (CONT'D)
CHILLER MODELS YCAS0283, 0303, 0323 AND 0343

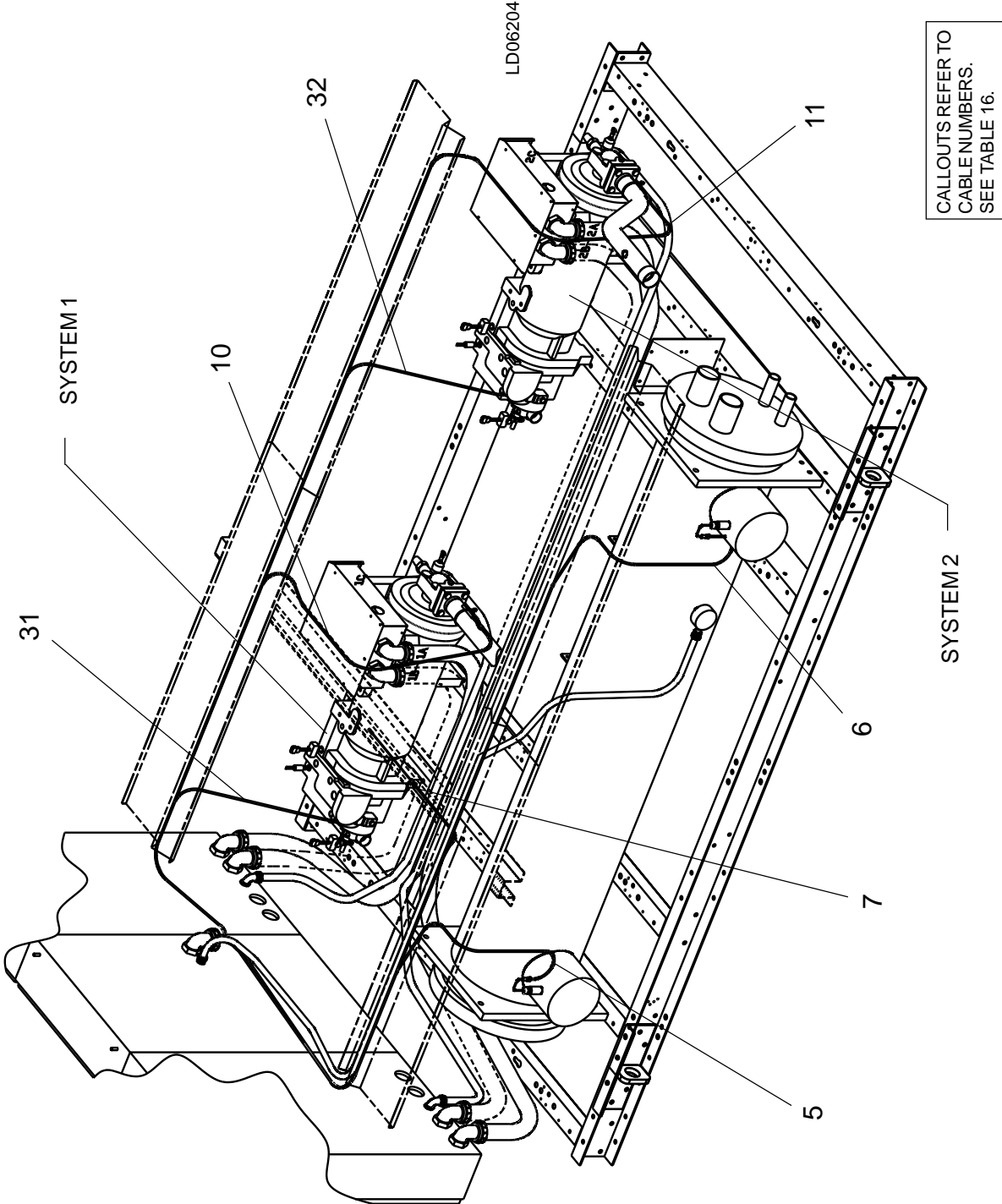


FIG. 18 – HARNESS LAYOUT (REF. TABLE 16, PAGE 33)

Control Panel

SENSOR HARNESS (CONT'D) CHILLER MODELS YCAS0283, 0303, 0323 AND 0343

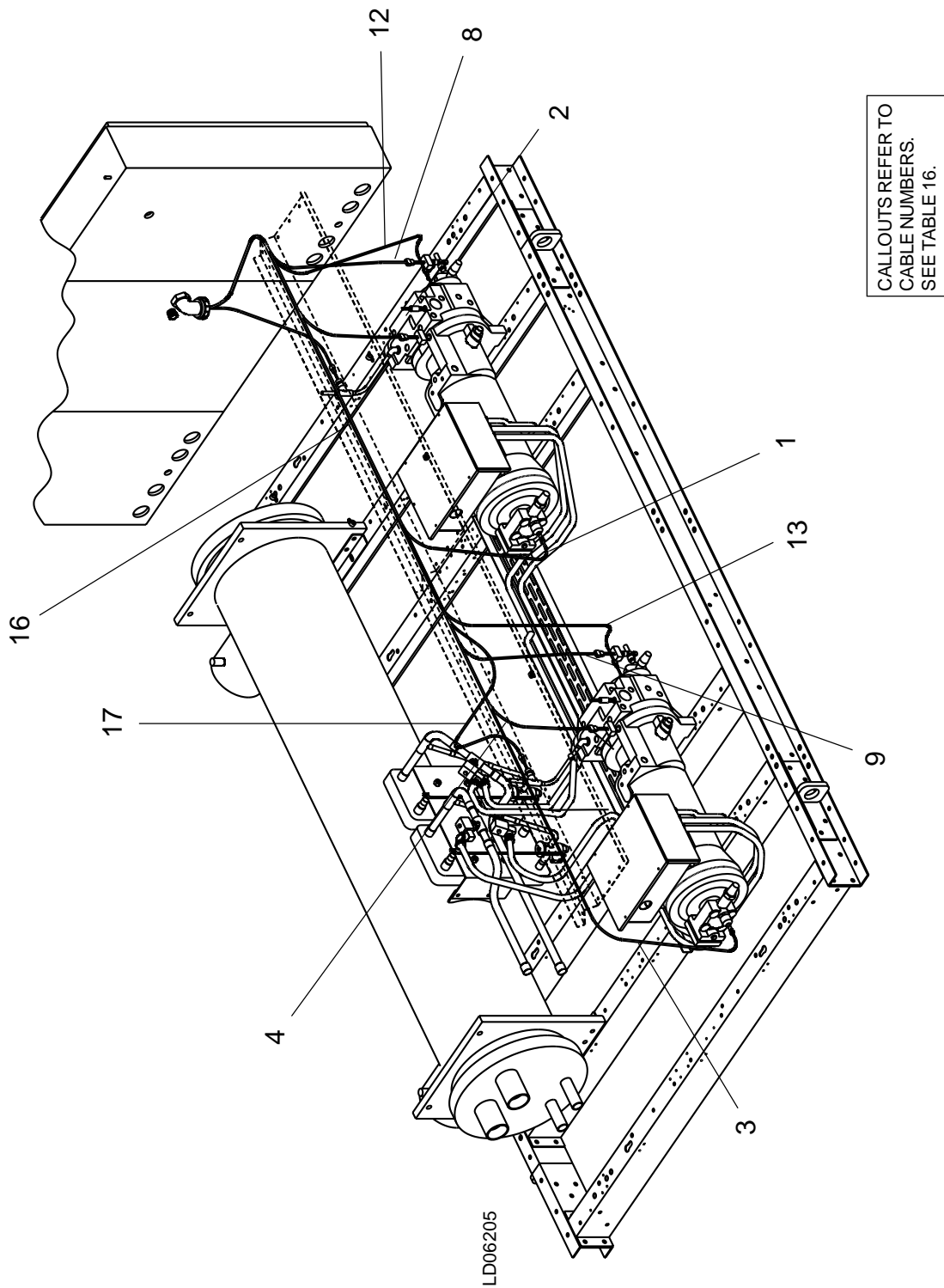


FIG. 19 – HARNESS LAYOUT (REF. TABLE 16, PAGE 33)

Control Panel

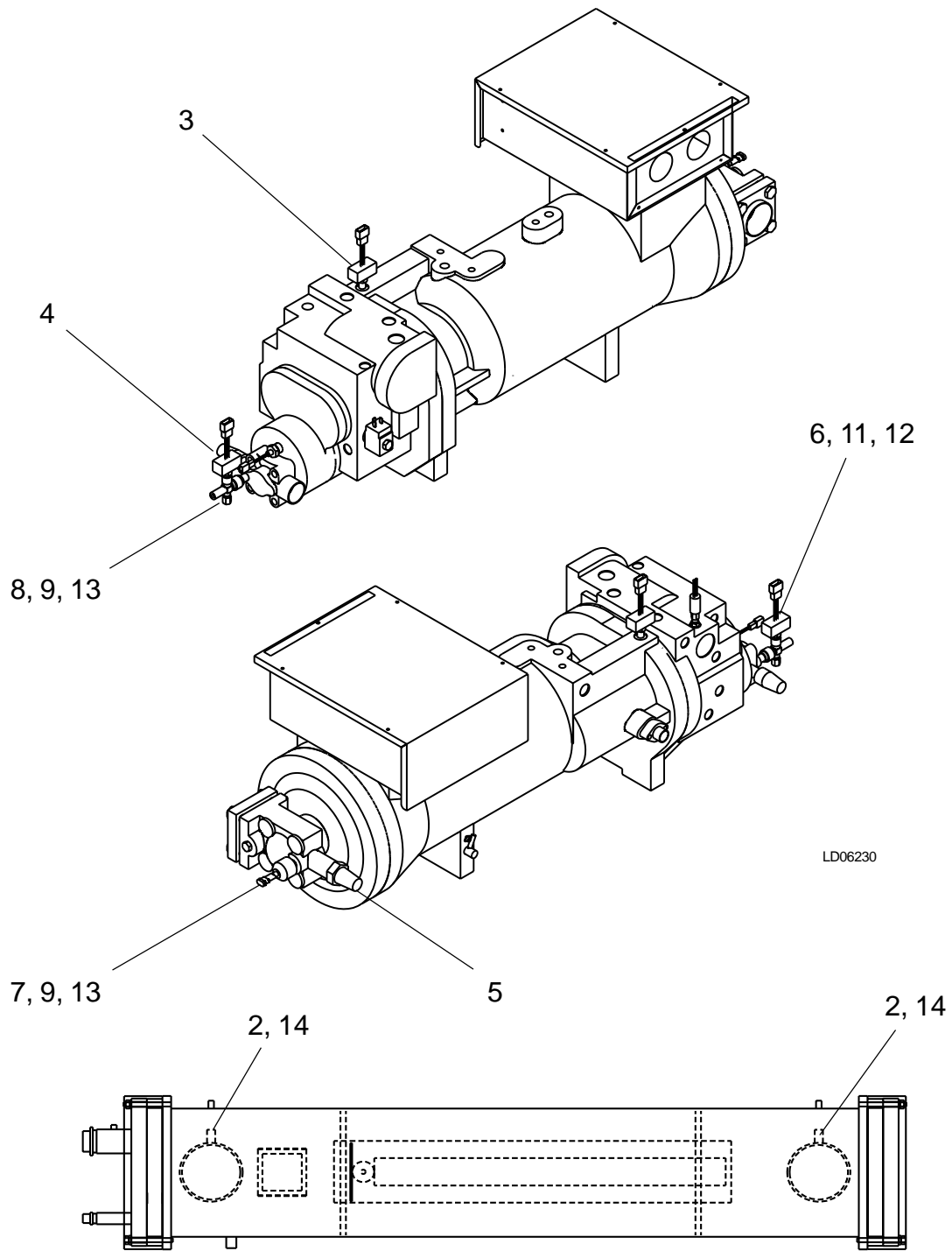
TRANSDUCERS AND TEMPERATURE SENSORS

TABLE 17 – TRANSDUCERS AND TEMPERATURE SENSORS (SEE FIG. 20, PAGE 37)

ITEM NUMBER	QUANTITY	SYSTEM	DESCRIPTION	VOLTAGE CODE	PART NUMBER
1 ^s	1	Unit	Sensor, Outside Air (OAT)(Not Shown)	ALL	025-28663-001
2 ^s	2	Unit	Sensor, Water Temp.	ALL	025-29964-000
3 ^s	2	1, 2	Sensor, Oil Temp.	ALL	025-30440-000
4 ^s	2	1, 2	Sensor, Disc. Temp.	ALL	025-32924-000
5 ^s	2	1, 2	Sensor, Suction Temp.	ALL	025-28935-000
6 ^s	2	1, 2	Switch, High Press. Cutout	ALL	025-30480-000
7 ^s	1	1, 2	Transducer 0-200 PSI	ALL	025-29583-000
8 ^s	1	1, 2	Transducer 0-400 PSI	ALL	029-29139-001
9	1	1, 2	Valve, Transducer (Use with Items 7 & 8) 1/4 MPT x 1/4 FPT	ALL	022-09503-000
10	4	1, 2	Valve, Charging (Oil, Refrig). 1/2 x 3/8 Flare (Not Shown)	ALL	022-09754-000
11	2	1, 2	Adaptor, Mounting (Includes Item 12) (Use with Item 6)	ALL	023-18087-000
12	4	1, 2	O-Ring (Use with Item 11)	ALL	028-13540-000
13	6	1, 2	Bushing (Use with Items 7 and 8)	ALL	023-18052-000
14	1	Unit	Compound, Heat Conductive (Use with Item 2)	ALL	013-00898-000

^s Recommended Spare Part

TRANSDUCERS AND TEMPERATURE SENSORS (CONT'D)



Control Panel

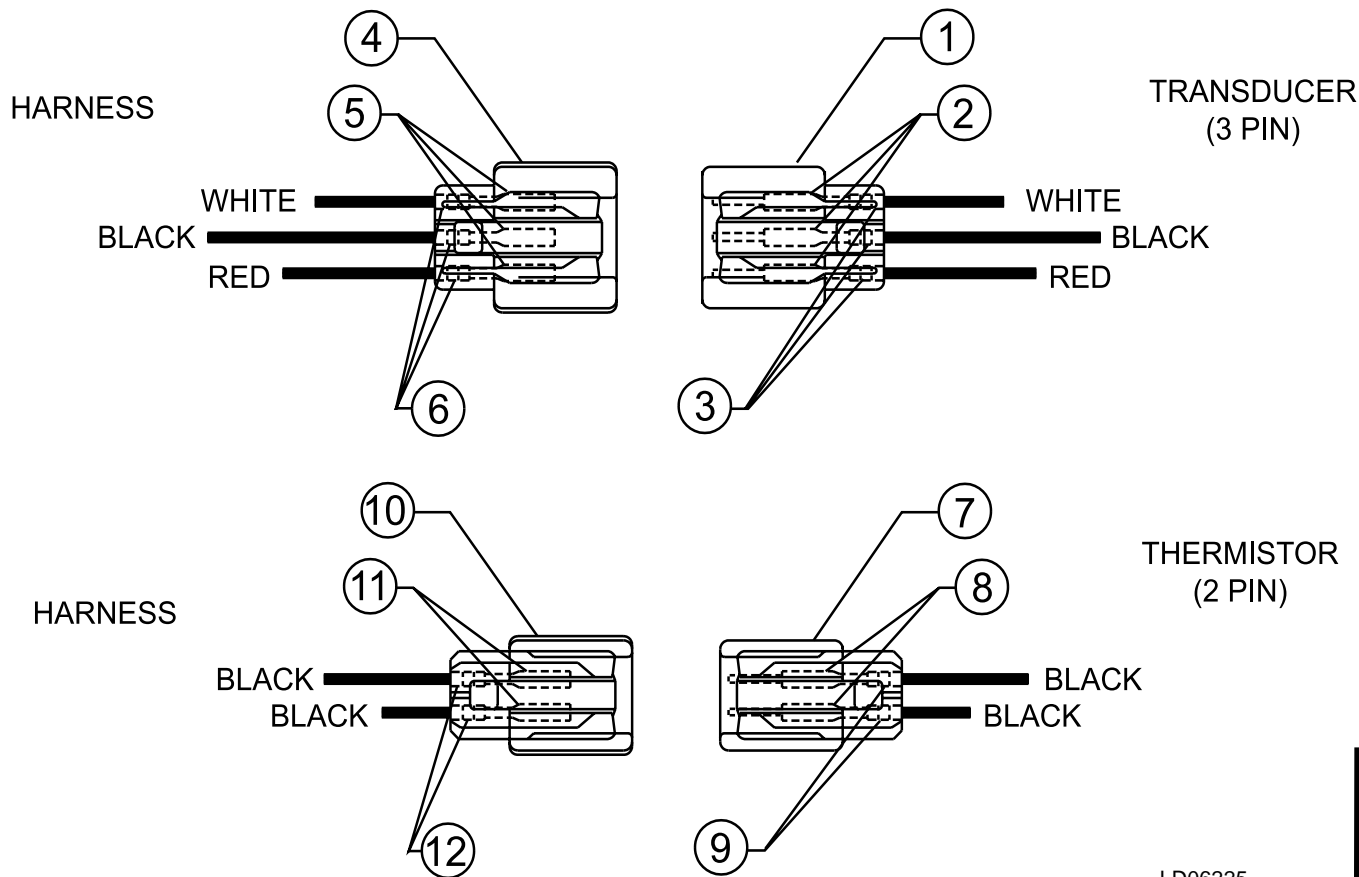
FIG. 20 – TRANSDUCERS AND TEMPERATURE SENSORS (REF. TABLE 17, PAGE 36)

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

TABLE 18 – TRANSDUCER, TEMPERATURE SENSOR AND WIRE HARNESS
CONNECTOR - FIELD REPLACEMENT PART NUMBERS - (SEE FIG. 21, PAGE 39)

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

TRANSDUCER, SENSOR AND WIRE HARNESS CONNECTORS - FIELD REPLACEMENT PART NUMBERS (CONT'D)



LD06225

FIG. 21 – TRANSDUCER, SENSOR AND WIRE HARNESS CONNECTORS - FIELD REPLACEMENT (REF. TABLE 18, PAGE 38)

POWER AND OPTION PANELS – 2-COMPRESSOR UNITS

POWER PANEL AND OPTION PANEL COMPONENTS

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

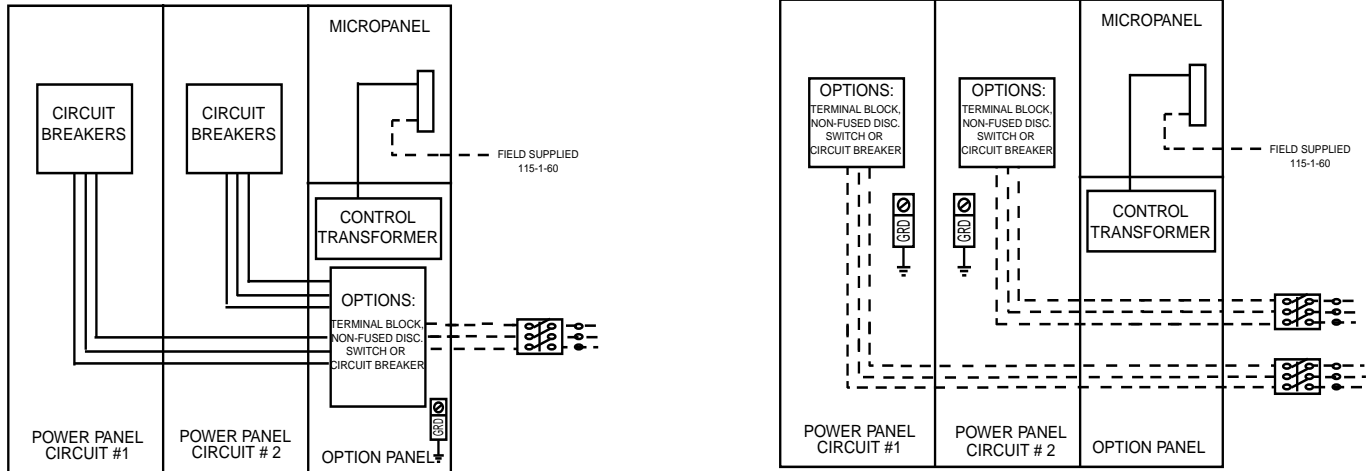
1. TERMINAL BLOCKS -
2. CIRCUIT BREAKER SWITCH -
3. NF (Non Fused) DISCONNECT SWITCH -

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

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

POWER AND OPTION PANELS – 2-COMPRESSOR UNITS (CONT'D)

Examples of power wiring configurations:



LD06213

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

POWER PANEL COMPONENTS ACROSS-THE-LINE

TABLE 19– POWER PANEL COMPONENTS (SEE FIG. 23, PAGE 44)

ITEM NO.	VOLTAGE	DESCRIPTION	TYPE	SYSTEM 1	SYSTEM 2
1A, 1B	YCAS0283 - 50	Contactora		024-31603-000	024-31603-000
	YCAS0303 - 50	Contactora		024-31603-000	024-31603-000
	YCAS0323 - 50	Contactora		024-31603-000	024-26577-000
	YCAS0343 - 50	Contactora		024-31603-000	024-26577-000
1C^s		Surge Suppressor		031-00808-000	031-00808-000
1D		Mech. Interlock	VE5-2	024-31601-000	024-31601-000
			VH145	024-31600-000	024-31600-000
			VH210A	024-31637-000	024-31637-000
1E		Lugs, Contactor		025-34401-000	025-34401-000
2A		120V Wire Harness		071-02600-000	071-02600-000
2B		High V Power Wire	4AWG BLK 600v 6AWG BLK 600v 8AWG BLK 600v 10AWG BLK 600v	OBTAIN LOCALLY	
3^s		Motor Protector		024-30907-000	024-30907-000
4		Ground Lug		025-34455-000	025-34455-000
5		Ground Lug		025-34085-000	025-34085-000
6	See page 44 for configuration	Terminal Block	UKH50	025-34482-000	025-34482-000
			UKH95	025-34454-000	025-34454-000
			UKH150	025-34408-000	025-34408-000
			UKH240	025-34405-000	025-34405-000
7	See page 44 for configuration	Circuit Breaker	S3H125TW	024-31844-000	024-31844-000
			S3H150TW	024-31649-000	024-31649-000
			S3H225TW	024-31819-000	024-31819-000
			S4H250BW	025-34419-000	025-34419-000
			S5H400BW	024-34424-000	025-34424-000
8	See page 44 for configuration	NF Disc Switch	S3H150DW	024-25575-000	024-25575-000
			S4H250DW	024-25565-000	024-25565-000
			S5H400DW	024-25564-000	024-25564-000
10		Handle Kit*		025-34417-000	025-34417-000
11	See page 44 for configuration	Aux. Circuit Breaker	K5AS	024-31646-000	024-31646-000
			K7AS	024-31648-000	024-31648-000

* Handle Kit is for Circuit Breakers and NF Disconnect Switches.

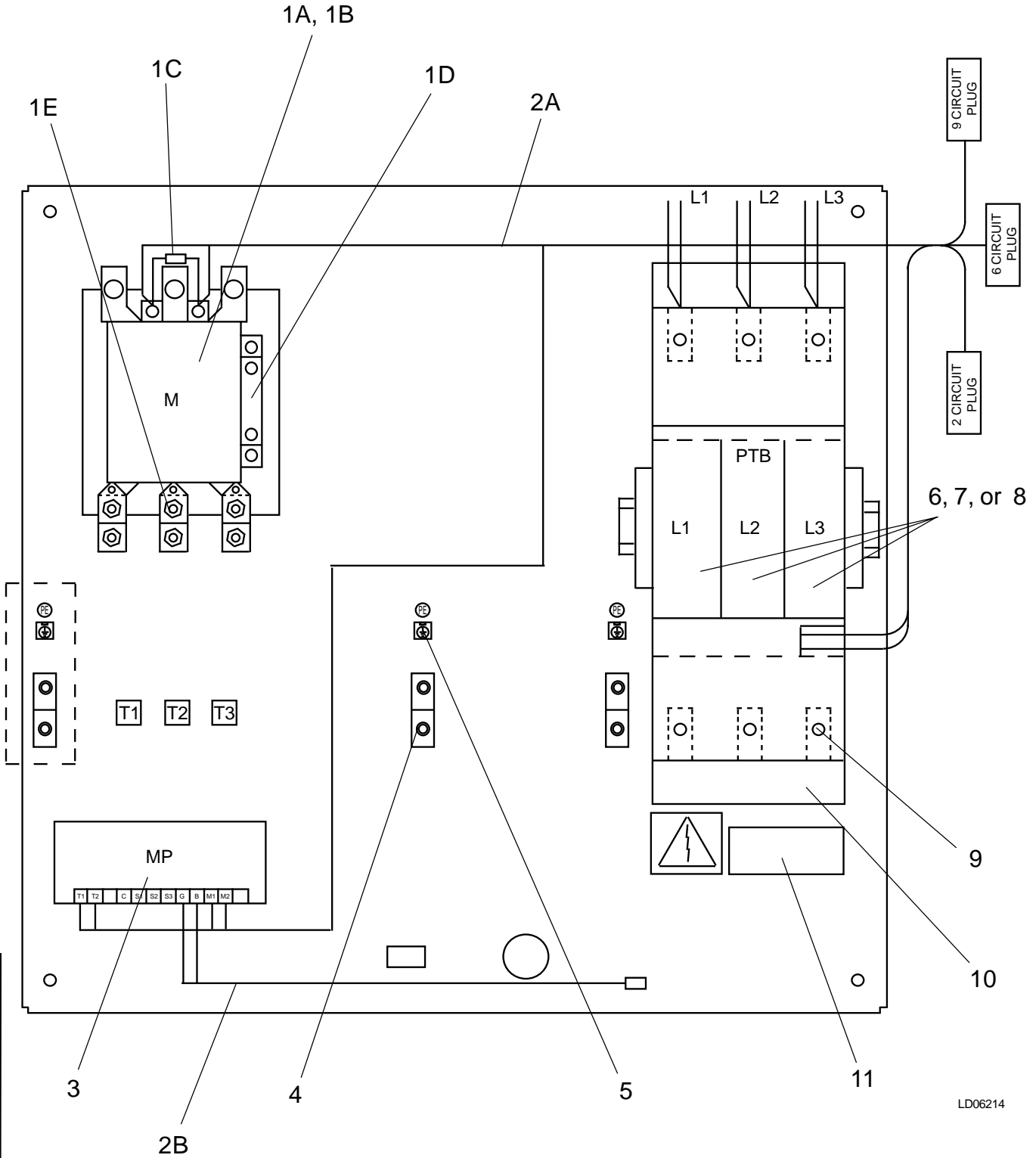
^s Recommended Spare Part

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

TABLE 20 – POWER PANEL COMPONENTS - LUG KITS – (SEE FIG. 23, PAGE 44)

ITEM NO.	C/B OR DISC SW FRAME SIZE	LUG KIT (SET OF 3) without CONTROL POWER TAP		LUG KIT (SET OF 3) with CONTROL POWER TAP		WIRE RANGE
		YORK PART #	QTY	YORK PART #	QTY	
9	S3-125/150/225A	025-34462-000	3	--	3	#14 - 1/0 AWG 2.5 - 50 mm ²
		025-34480-000	3	--	3	#4 AWG - 300kcm 25 - 150 mm ²
9	S4-250A	025-34418-000	3	024-31650-000	3	#6 AWG - 350 kcm 16 - 150 mm ²
9	S5-400A	025-34418-000	3	--	3	#6 AWG - 350 kcm 16 - 150 mm ²
		025-34421-000	3	--	3	250 - 500 kcm 120 - 240 mm ²
9	S6-600A	025-34415-000	3	--	3	(3)2/0 AWG-400 kcm (2) 70 - 185 mm ²

ACROSS-THE-LINE POWER PANEL



LD06214

Power and Option Panels

FIG. 23 – ACROSS-THE-LINE POWER PANEL LAYOUT (REF. TABLES 19 AND 20, PAGES 42 AND 43)

POWER PANEL COMPONENTS WYE-DELTA

TABLE 21 – POWER PANEL COMPONENTS (REF. FIG. 24, PAGE 47)

ITEM NO.	MODEL / VOLTAGE	DESCRIPTION	TYPES	SYSTEM 1	SYSTEM 2
1A	YCAS0283 - 50	Contactactor		024-31636-000	024-31636-000
	YCAS0303 - 50	Contactactor		024-31602-000	024-31602-000
	YCAS0323 - 50	Contactactor		024-31602-000	024-31640-000
	YCAS0343 - 50	Contactactor		024-31602-000	024-31640-000
1B	YCAS0283 - 50	Contactactor		024-31636-000	024-31636-000
	YCAS0303 - 50	Contactactor		024-31636-000	024-31636-000
	YCAS0323 - 50	Contactactor		024-31636-000	024-31636-000
	YCAS0343 - 50	Contactactor		024-31636-000	024-31636-000
1C^s		Surge Suppressor		031-00808-000	031-00808-000
1D		Mech. Interlock	VE5-2	024-31601-000	024-31601-000
			VH145	024-31600-000	024-31600-000
			VH210A	024-31637-000	024-31637-000
1E		Lugs, Contactactor		025-34401-000	025-34401-000
2A		120V Wire Harness		071-02600-000	071-02600-000
2B		High V Power Wire	4AWG BLK 600v 6AWG BLK 600v 8AWG BLK 600v 10AWG BLK 600v	OBTAIN LOCALLY	
3^s		Motor Protector		024-30907-000	024-30907-000
4		Ground Lug		025-34455-000	025-34455-000
5		Ground Lug		025-34085-000	025-34085-000
6		Terminal Block	UKH50	025-34482-000	025-34482-000
			UKH95	025-34454-000	025-34454-000
			UKH150	025-34408-000	025-34408-000
			UKH240	025-34405-000	025-34405-000
7	See page 47 for configuration	Circuit Breaker	S3H125TW	024-31844-000	024-31844-000
			S3H150TW	024-31649-000	024-31649-000
			S3H225TW	024-31819-000	024-31819-000
			S4H250BW	025-34419-000	025-34419-000
			S5H400BW	024-34424-000	025-34424-000
8	See page 47 for configuration	NF Disc Switch	S3H150DW	024-25575-000	024-25575-000
			S4H250DW	024-25565-000	024-25565-000
			S5H400DW	024-25564-000	024-25564-000
10		Handle Kit*		025-34417-000	025-34417-000
11	See page 47 for configuration	Aux. Circuit Breaker	K5AS	024-31646-000	024-31646-000
			K7AS	024-31648-000	024-31648-000

* Handle Kit is for Circuit Breakers and NF Disconnect Switches.

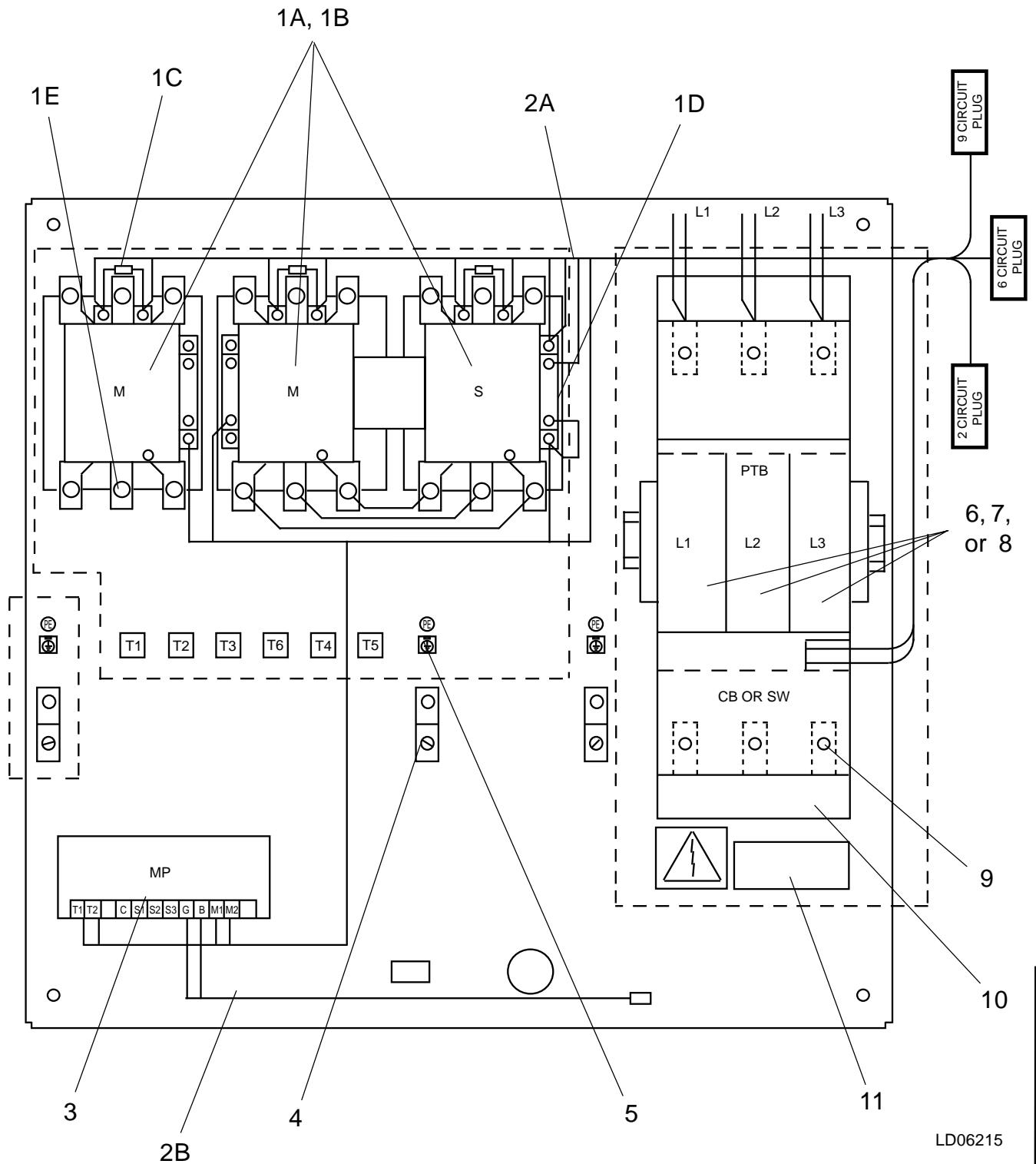
^s Recommended Spare Part

POWER PANEL COMPONENTS (CONT'D)
WYE-DELTA

TABLE 22 – POWER PANEL COMPONENTS - LUG KITS – (SEE FIG. 24, PAGES 47)

ITEM NO.	C/B or DISC SW FRAME SIZE	LUG KIT (SET OF 3) without CONTROL POWER TAP		LUG KIT (SET OF 3) with CONTROL POWER TAP		WIRE RANGE
		YORK PART #	QTY	YORK PART #	QTY	
9	S3-125/150/225A	025-34462-000	3	---	3	#14 - 1/0 AWG 2.5 - 50 mm ²
		025-34480-000	3	---	3	#4 AWG - 300kcm 25 - 150 mm ²
9	S4-250A	025-34418-000	3	024-31650-000	3	#6 AWG - 350 kcm 16 - 150 mm ²
9	S5-400A	025-34418-000	3	---	3	#6 AWG - 350 kcm 16 - 150 mm ²
		025-34421-000	3	---	3	250 - 500 kcm 120 - 240mm ²
9	S6-600A	025-34415-000	3	---	3	(3)2/0 AWG - 400 kcm (2) 70 - 185 mm ²

WYE-DELTA POWER PANEL



LD06215

Power and Option Panels

FIG. 24 – WYE-DELTA POWER PANEL TYPICAL LAYOUT (REF. TABLES 21 AND 22, PAGES 45 AND 46)

3 FAN CONTACTOR PANEL COMPONENTS

TABLE 23 – 3 FAN CONTACTOR PANEL COMPONENTS – YCAS F (SEE FIG. 25, PAGE 49)

ITEM NO.	VOLTAGE	DESCRIPTION	TYPE	ADJUSTMENT	PART NUMBER
2A		Surge Suppressor			031-00808-000
2B	YCAS0283 - 50	Contactator	A12		025-34448-000
	YCAS0303 - 50	Contactator	A12		025-34448-000
	YCAS0323 - 50	Contactator	A9		025-34448-000
	YCAS0343 - 50	Contactator	A9		025-34448-000
2C		PH Terminal	USLKG2.5		025-34447-000
2E		14AWG BLK 600V 1			025-08897-000
2F		Overload	6.3A	4.0-6.3 Amps	025-34450-000
			9.0A	6.3-9.0 Amps	025-34449-000
			12.5A	9.0-12.5 Amps	025-34446-000
			16.0A	12.5-16.0 Amps	N/A
3		Contactator 600V			025-31635-000
5		End Clamp			025-34439-000
6		10AWG BLK 600V 1			025-11585-000
		12-10AWG #8 Ring			025-34091-000
7		Din Rail, Slotted			025-29167-000
8		Label, Caution			035-05548-000

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

3 FAN CONTACTOR PANEL COMPONENTS (CONT'D)

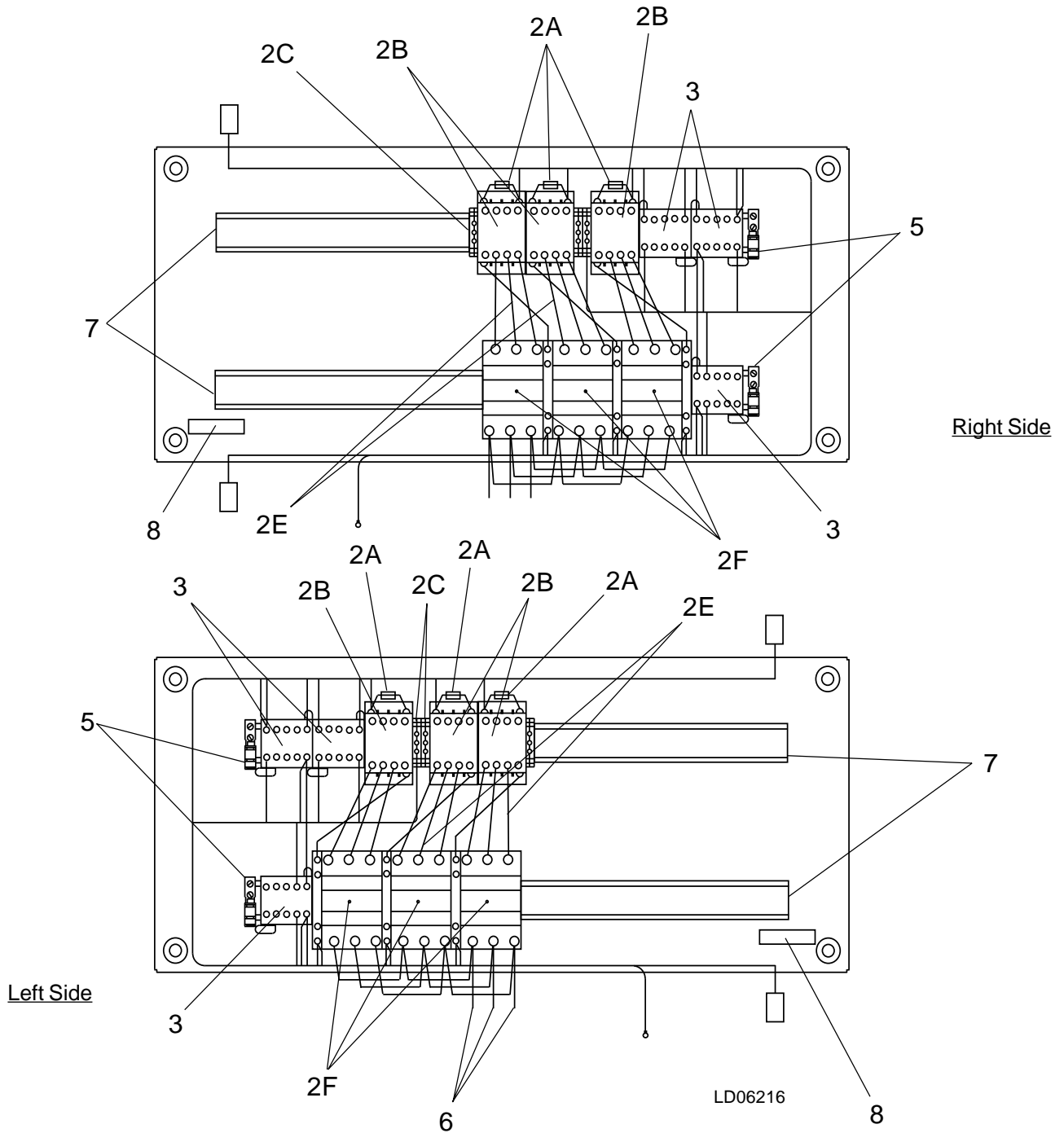


FIG. 25 – 3 FAN CONTACTOR PANEL COMPONENTS– YCAS F (REF. TABLE 23, PAGE 48)

OPTIONS PANEL COMPONENTS

TABLE 24 – OPTIONS PANEL COMPONENTS (SEE FIG. 26 AND 27, PAGES 51 AND 52)

ITEM NO.	PART NO.	DESCRIPTION	QTY.
4A	024-25575-000	Disconnect Switch, 150 Amp	1
	024-25565-000	Disconnect Switch, 250 Amp	1
4A	024-31844-000	Circuit Breaker, 125 Amp (S3H125TW)	1
	024-31649-000	Circuit Breaker, 150 Amp (S3H150TW)	1
	024-31819-000	Circuit Breaker, 225 Amp (S3H225TW)	1
	024-34424-000	Circuit Breaker, 400 Amp (S4H400BW)	1
	024-34425-000	Circuit Breaker, 600 Amp (S6H600BW)	1
4A	025-34482-000	Terminal Block UKH50	3
	025-34454-000	Terminal Block UKH95	3
	025-34408-000	Terminal Block UKH150	3
	025-34405-000	Terminal Block UKH240	3
4B	025-34413-000	Handle Kit, size S6 CB or Disc. Sw.	1
	025-34417-000	Handle Kit, size S3, S4, S5 CB or Disc. Sw.	1
Lug Kits LESS Control Power Tap*			
4C	025-34415-000	Lug Kit (3) 2/0-400	1
	025-34418-000	Lug Kit (1) 6-350MCM	
	025-34421-000	Lug Kit (3) 250-500	1
	025-34480-000	Lug Kit (1) 4-300MCM	1
Lug Kits WITH Control Power Tap*			
4D	024-31650-000	Lug Kit (1) 6-350MCM (wire range)	1
Terminal Block Jumpers			
4E	025-34422-000	Insertion Bridge EB2-31/UKH	2
	025-34423-000	Insertion Bridge EB2-36/UKH	3
	025-34426-000	Insertion Bridge EB3-36/UKH	3
	025-34497-000	Insertion Bridge	3
1C	024-31833-000	Switch, Non-Fused Disconnect	1
1D	024-31633-000	Shaft, Disconnect Switch	1
1E	024-31832-000	Handle, Disconnect Switch	1
1F	024-34427-000	Control #UF811	1
2B	025-34434-000	Transformer, 2 kVA, 200-120V	1
	025-34436-000	Transformer, 2 kVA, 380-120V	1
	025-34437-000	Transformer, 2 kVA, 415-120V	1
	025-34429-000	Transformer, 2 kVA, 460-120V	1
	025-34432-000	Transformer, 2 kVA, 580-120V	1
	025-34493-000	Transformer, 2 kVA 1PH 50/60 Hz	1
2A	025-34431-000	Fuse, 8 Amp 600V CL-CC	2
	025-34430-000	Fuse, 10 Amp 600V CL-CC	2
	025-34435-000	Fuse, 12 Amp 600V CL-CC	2
	025-34428-000	Fuse, 20 Amp 600V CL-CC	2
	025-34433-000	Fuse, 25 Amp 600V CL-CC	2
	025-35668-000	Fuse, 12 Amp 500V type aM	2

* NOTE: Number in parenthesis indicates number of connections per lug.

OPTIONS PANEL COMPONENTS (CONT'D)

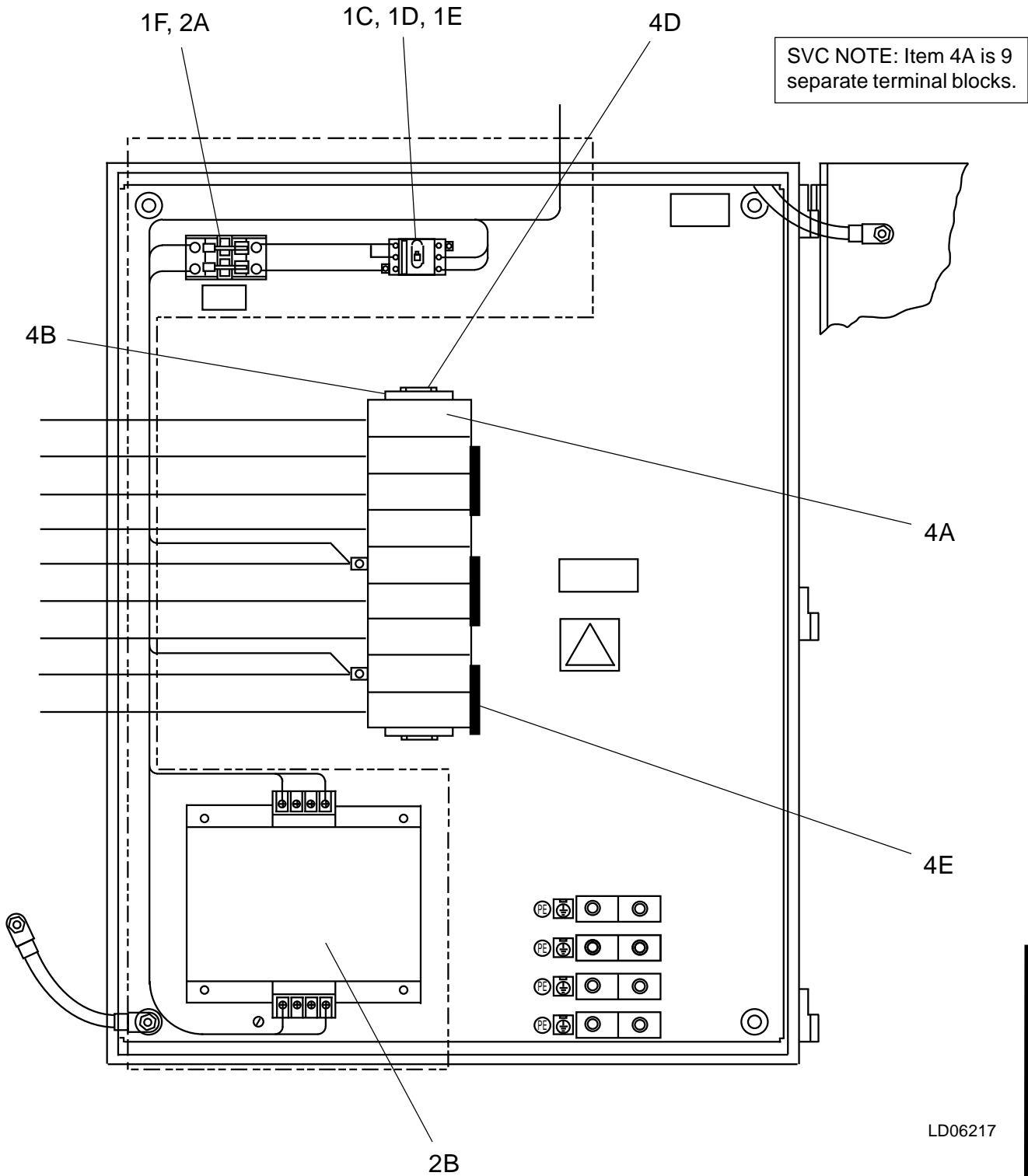


FIG. 26 – OPTIONS PANEL WITH POWER TERMINAL BLOCK OPTION (REF. TABLE 24, PAGE 50)

OPTIONS PANEL COMPONENTS (CONT'D)

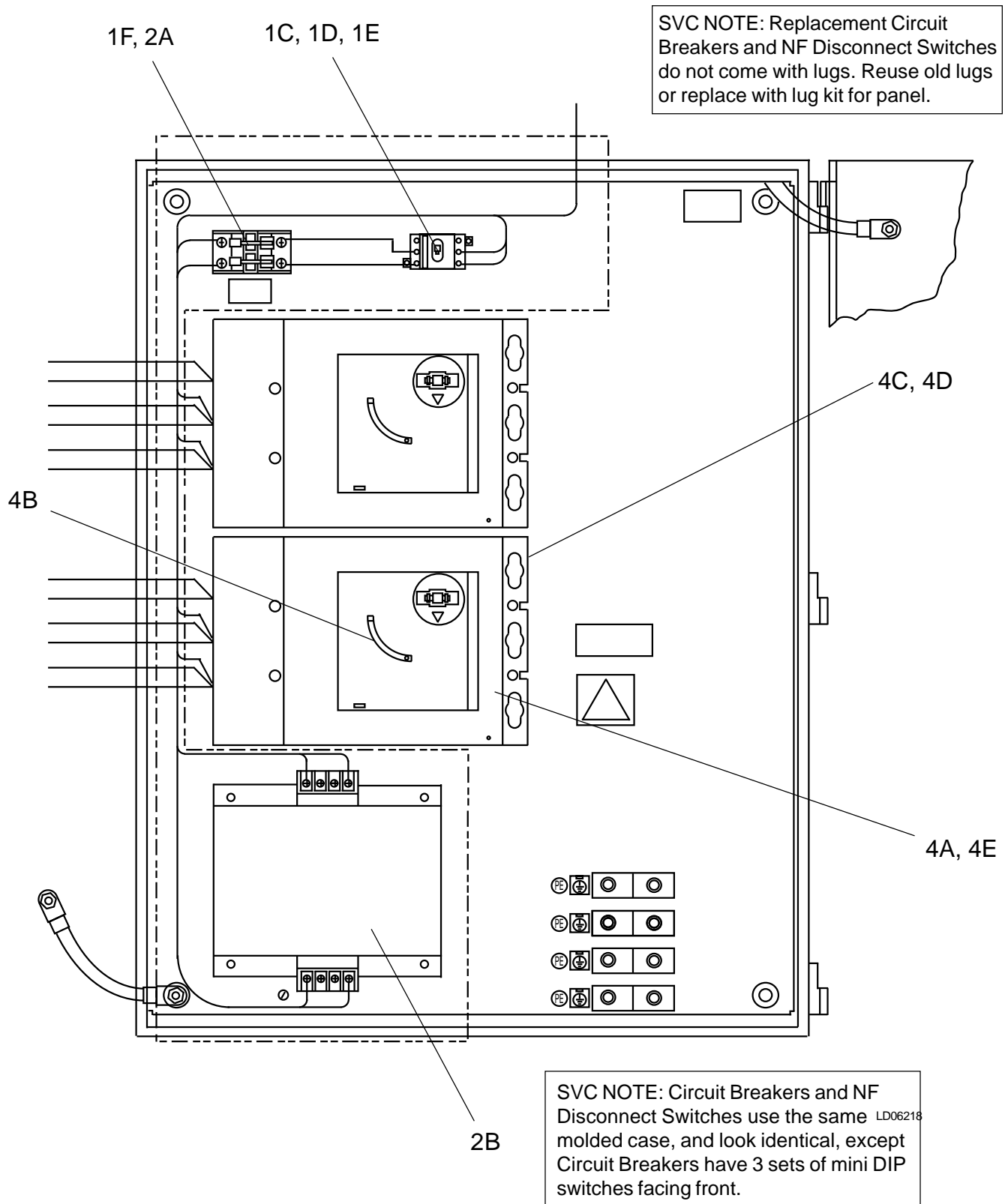


FIG. 27 – OPTIONS PANEL WITH CIRCUIT BREAKER OR NON-FUSED DISCONNECT SWITCH OPTION
(REF. TABLE 24, PAGE 50)

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YCAS CHILLER - OPTIONS KITS

TABLE 25 – FIELD INSTALLABLE OPTIONS KIT TABLE

MODEL NUMBER YCAS - F	VIBRATION ISOLATORS SPRING 1" DEFLEC ALUMINUM/BLACK FIN*	VIBRATION ISOLATORS SPRING 2" (SEISMIC) ALUMINUM/BLACK FIN*	VIBRATION ISOLATOR PAD 1/2" DEFLEC ALUMINUM/BLACK FIN*	VIBRATION ISOLATORS SPRING 1" DEFLEC COPPER*	VIBRATION ISOLATORS SPRING 2" (SEISMIC) COPPER*	VIBRATION ISOLATORS PAD 1/2" DEFLEC COPPER*
MODEL NO.	029-22941	029-22941	029-22941	029-22941	029-22941	029-22941
0283	-104	-203	-004	-153	-253	-009
0303	-105	-203	-005	-153	-253	-009
0323	-106	-204	-006	-154	-254	-010
0343	-106	-204	-006	-154	-254	-010

* Note: Condenser Coil Fin Material.

TABLE 25 – FIELD INSTALLABLE OPTIONS KIT TABLE - (CONT'D)

MODEL NUMBER YCAS - F	WIRE ENCLOSURE FULL UNIT	LOUVERED ENCLOSURE FULL UNIT	WIRE/ LOUVERED ENCLOSURE FULL UNIT	LOUVERED ENCLOSURE CONDENSER ONLY	BAS / EMS INTERFACE KIT	REMOTE CONTROL PANEL 60 HZ
MODEL NO.	375-29513	375-29514	375-29515	375-29516	371-02590	371-02485
0283	-105	-105	-105	-105	-101 & -102	-102
0303	-105	-105	-105	-105	-101 & -102	-102
0323	-105	-105	-105	-105	-101 & -102	-102
0343	-105	-105	-105	-105	-101 & -102	-102

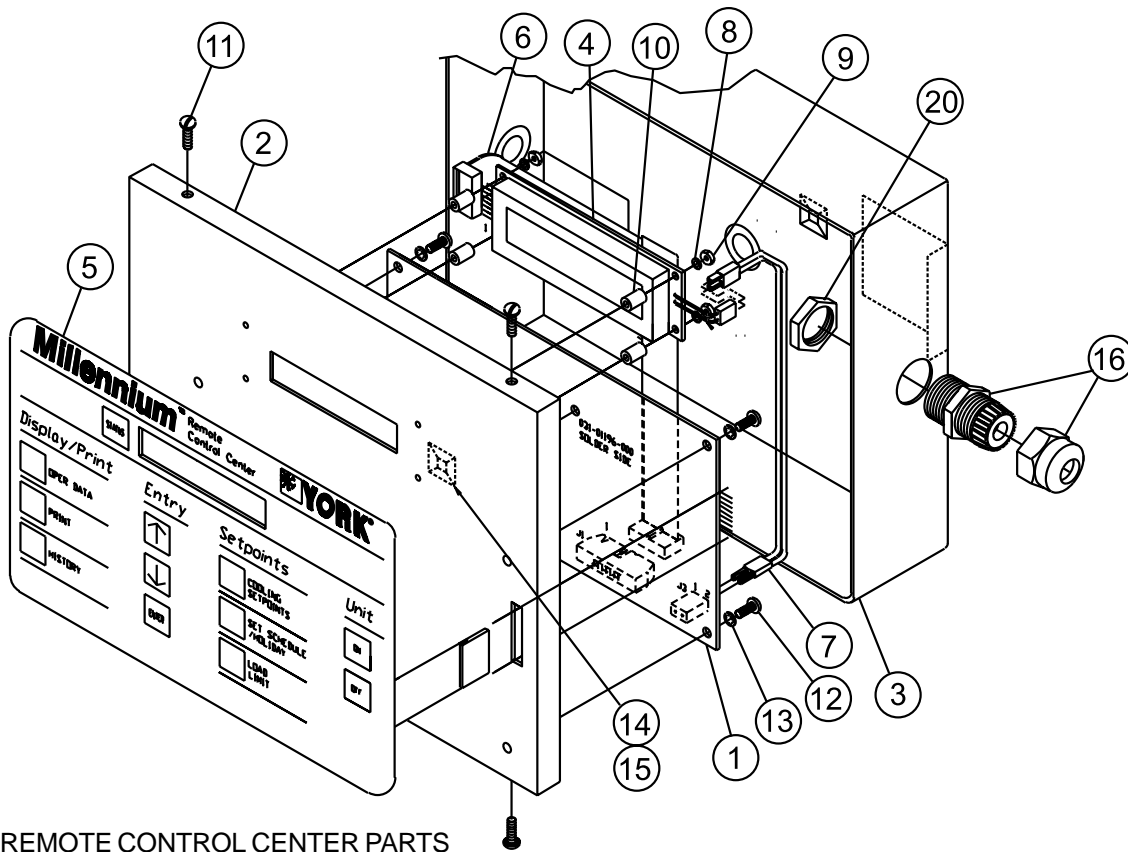
YCAS CHILLER – OPTIONS KITS (CONT'D)

TABLE 26 – REMOTE EVAPORATOR - FIELD INSTALLABLE OPTIONS KIT TABLE

MODEL NUMBER YCAS - F	VIBRATION ISOLATORS SPRING 1" DEFLEC* ALUMINUM/ BLACK FIN*	VIBRATION ISOLATORS SPRING 2" (SEISMIC) ALUMINUM/ BLACK FIN*	VIBRATION ISOLATOR PAD 1/2" DEFLEC ALUMINUM/ BLACK FIN*	VIBRATION ISOLATORS SPRING 1" DEFLEC COPPER*	VIBRATION ISOLATORS SPRING 2" (SEISMIC) COPPER*	VIBRATION ISOLATORS PAD 1/2" DEFLEC COPPER*
MODEL NO.	029-22967	029-22967	029-22967	029-22967	029-22967	029-22967
0283	-103	-203	-005	-151	-253	-003
0303	-103	-203	-005	-151	-253	-003
0323	-104	-204	-005	-152	-254	-004
0343	-104	-204	-005	-152	-254	-004

* Note: Condenser Coil Fin Material.

REMOTE CONTROL CENTER



LD05855

FIG. 29 – REMOTE CONTROL CENTER PARTS

TABLE 27 – REMOTE CONTROL CENTER PARTS

371-02485-102 (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
8	4	LKWASH HEL. SPG. #4 REG.	021-17576-000
9	4	NUT, HEX MACH SCREW - #4 – 40 UNC-2B.	021-10056-000
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
12	4	SCREW, MACH PAN HD.	021-01719-000
13	4	LKWASH, TH. INT. #8	021-01133-000
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

CURRENT/TEMPERATURE RESET PARTS BREAKDOWN

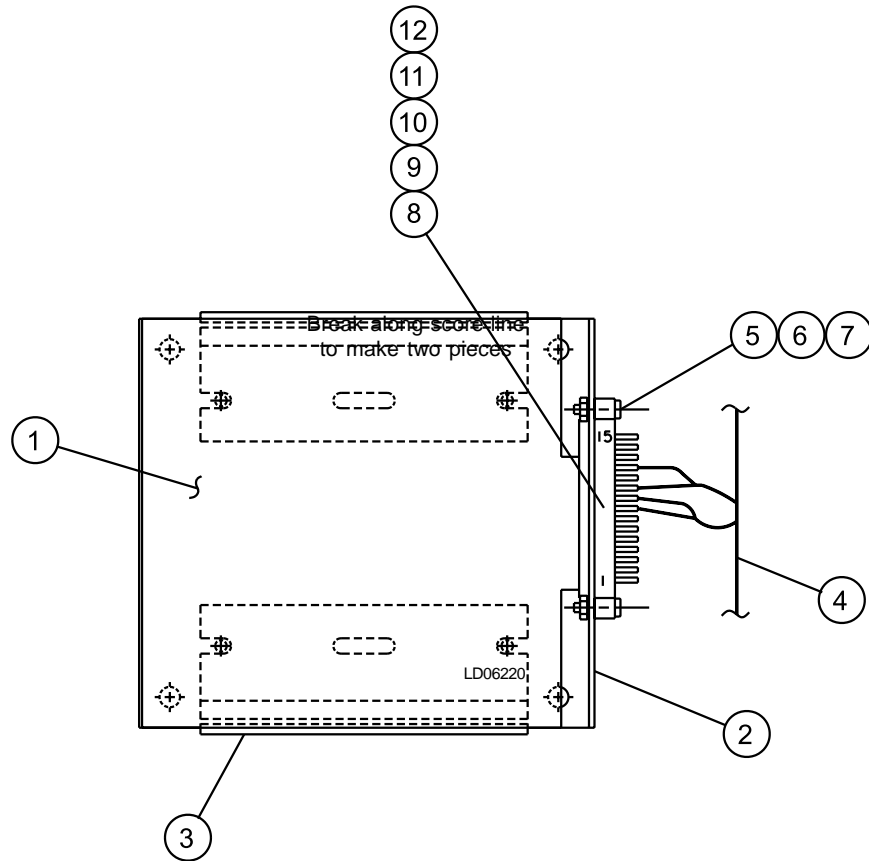


FIG. 30 – REMOTE CURRENT/TEMPERATURE RESET KIT

TABLE 28 – REMOTE CURRENT/TEMPERATURE RESET KIT

REF. NUMBER	QUANTITY	DESCRIPTION	PART NUMBER
1	1	CONTROL, REMOTE	031-00814-000
2	1	BRACKET, REMOTE RESET	371-01232-361
3	1	TRACK, SNAP	071-01232-363
4	1	WIRING, REMOTE RESET	571-02492-221
5	2	SCREW MACH. PAN HD #4	021-17594-000
6	4	NUT, HEX - #4 – 40.	021-10056-000
7	2	LKWASH HEL. SPG. #4 REG.	021-17576-000
8	4	NUT, HEX - #6 – 32.	021-08281-000
9	4	LKWASH TH. INT. #6.	021-01132-000
10	4	WASHER, FLAT #6.	021-11641-000

TABLE 29 – REMOTE CURRENT/TEMPERATURE RESET KIT - LOOSE SHIP PARTS

QUANTITY	DESCRIPTION	PART NUMBER
2	CONT SOC AWG WIRE SIZE 20	025-19674-000
2	TERMINAL PUSH ON STRAIGHT	025-06642-000
4	TUBING HEAT SHRINKABLE 1/8 ID	025-29632-000
1	HGS CONNECTOR ELECTRICAL PLUG	025-21137-000*
1	CONNECTOR EDGE, 15 POSITION, 0.125	025-29631-000

* Was P/N 025-211137-000 prior to Spring 1999.

REMOTE CURRENT/TEMPERATURE RESET WIRING KIT

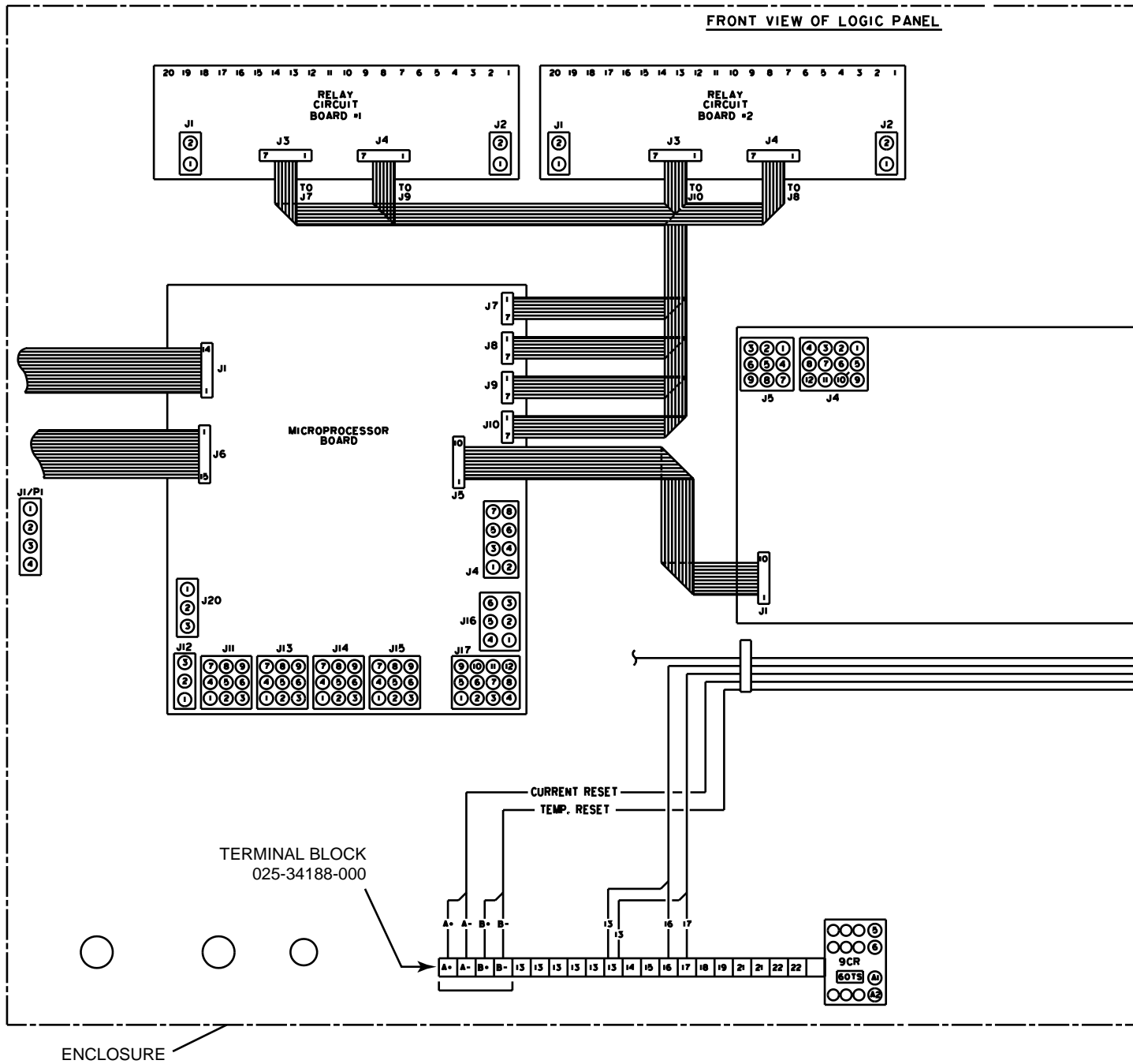


FIG. 31 – REMOTE CURRENT/TEMPERATURE RESET WIRING KIT

REMOTE CURRENT/TEMPERATURE RESET WIRING KIT

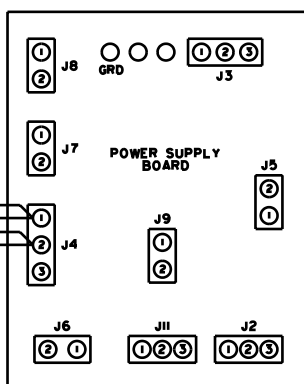
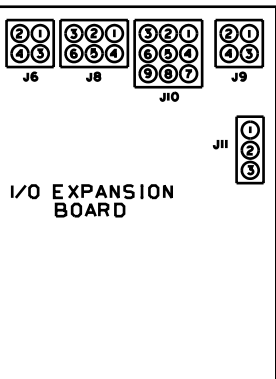
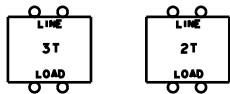
Chiller Options

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

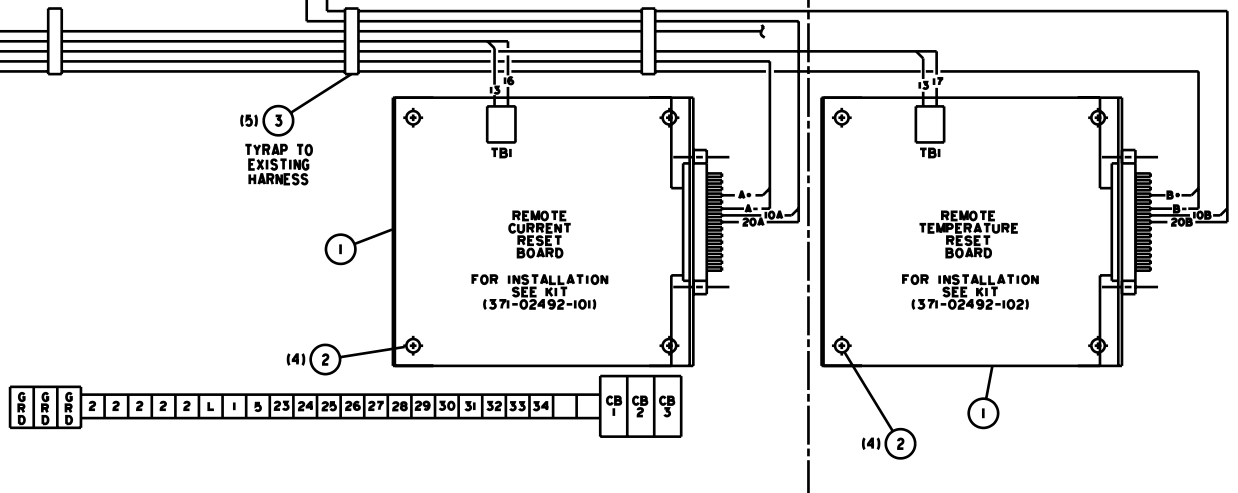
(NOTE 4)

NOTES:

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



RIGHT SIDE VIEW OF LOGIC PANEL



LD05854

ENCLOSURE KIT OPTIONS – FULL UNIT (Includes Top and Bottom Sections)

TABLE 30 – ENCLOSURE KIT OPTIONS

MODEL NUMBER	WIRE ENCLOSURE FULL UNIT *	LOUVERED ENCLOSURE FULL UNIT *	WIRE / LOUVERED ENCLOSURE FULL UNIT *	LOUVERED ENCLOSURE CONDENSER ONLY
YCAS - F	375-29513-	375-29514-	375-29515-	375-29516-
0283	105	105	105	105
0303	105	105	105	105
0323	105	105	105	105
0343	105	105	105	105

* Full units include top and bottom sections listed in Tables 32 - 35. Top or bottom sections may be ordered separately if desired.

ENCLOSURE KIT OPTIONS - TOP AND BOTTOM (Full Unit, Top and Bottom Kit Numbers)

TABLE 31 – ENCLOSURE KIT OPTIONS – TOP AND BOTTOM KITS AVAILABLE SEPARATELY

FULL UNIT KIT NUMBER INCLUDES THE FOLLOWING TOP AND BOTTOM KITS			
TYPE	FULL UNIT NO.	TOP KIT NO.	BOTTOM KIT NO.
WIRE	375-29513-105	375-29569-100 (FIG. 32)	375-29569-101 (FIG. 33)
LOUVER	375-29514-105	375-29571-100 (FIG. 34)	375-29571-101 (FIG. 35)
WIRE/LOUVER	375-29515-105	375-29571-100	375-29569-101
LOUVER COND. ONLY	375-29516-105	375-29571-100	N/A

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

WIRE ENCLOSURE TOP SECTION SPARE PARTS BREAKDOWN

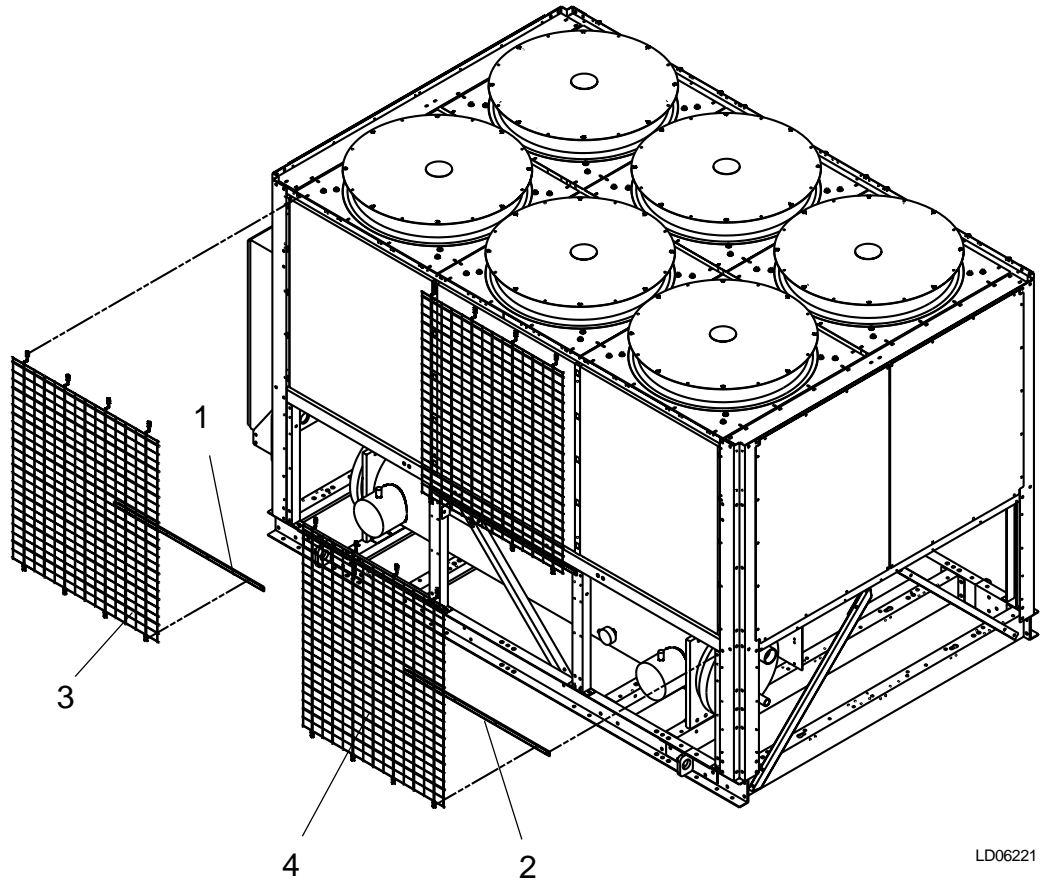


FIG. 32 – TOP SECTION - WIRE ENCLOSURE - KIT NO. 375-29569-100 IS SHOWN.

TABLE 32 – TOP SECTION - WIRE ENCLOSURE

TOP COMPONENT KITS				
ITEM NUMBER	QTY.	DESCRIPTION	375-29569-100	375-29569-120
1	2	CHANNEL	075-29072-000	075-29588-000
2	4	Z CHANNEL DXST	075-29073-000	075-29589-000
3	2	WIRE GRILL CONDENSER DXST	026-36770-000	026-36533-000
4	4	WIRE GRILL CONDENSER DXST	026-36771-000	026-36533-000
Not Shown	1	HARDWARE KIT	321-29569-100	321-29569-120

WIRE ENCLOSURE BOTTOM SECTION SPARE PARTS BREAKDOWN

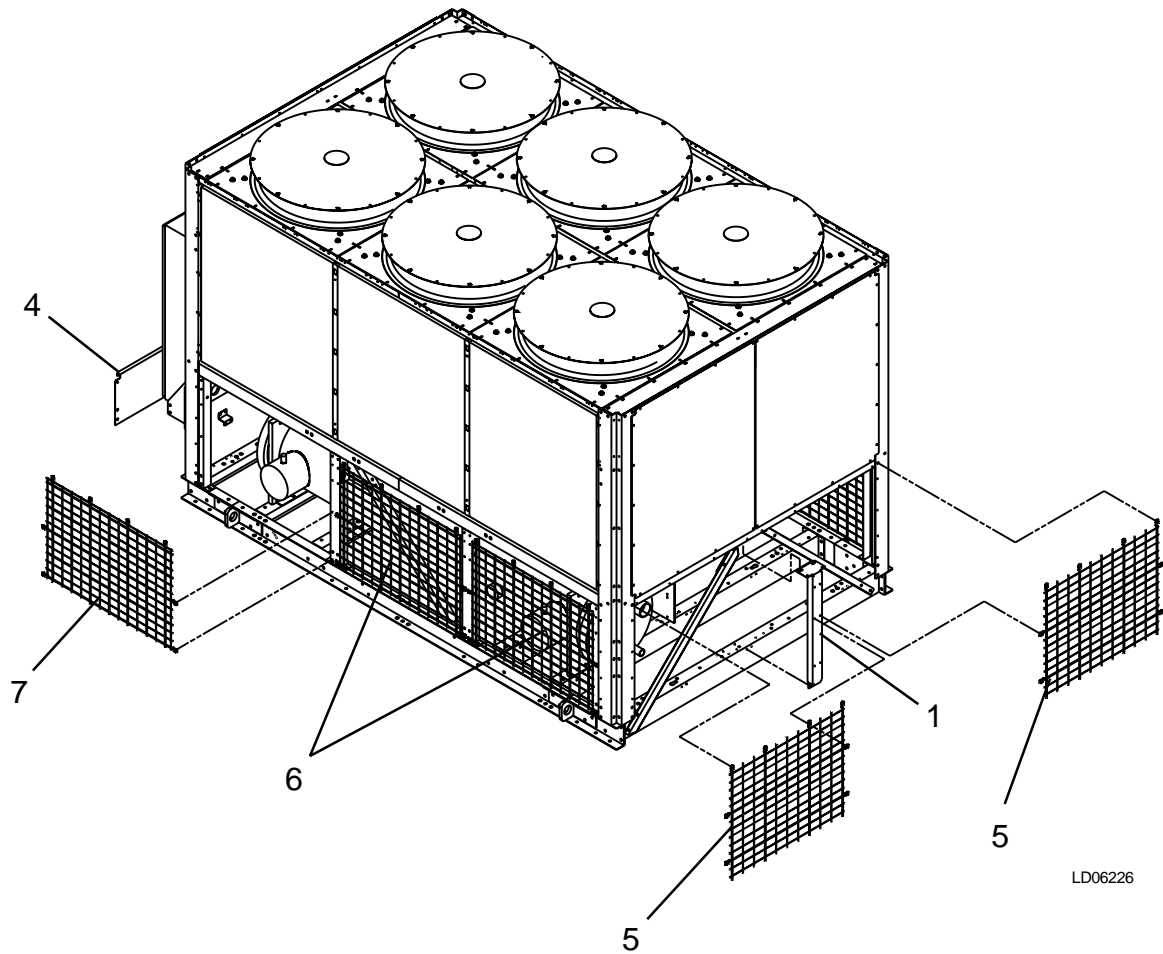
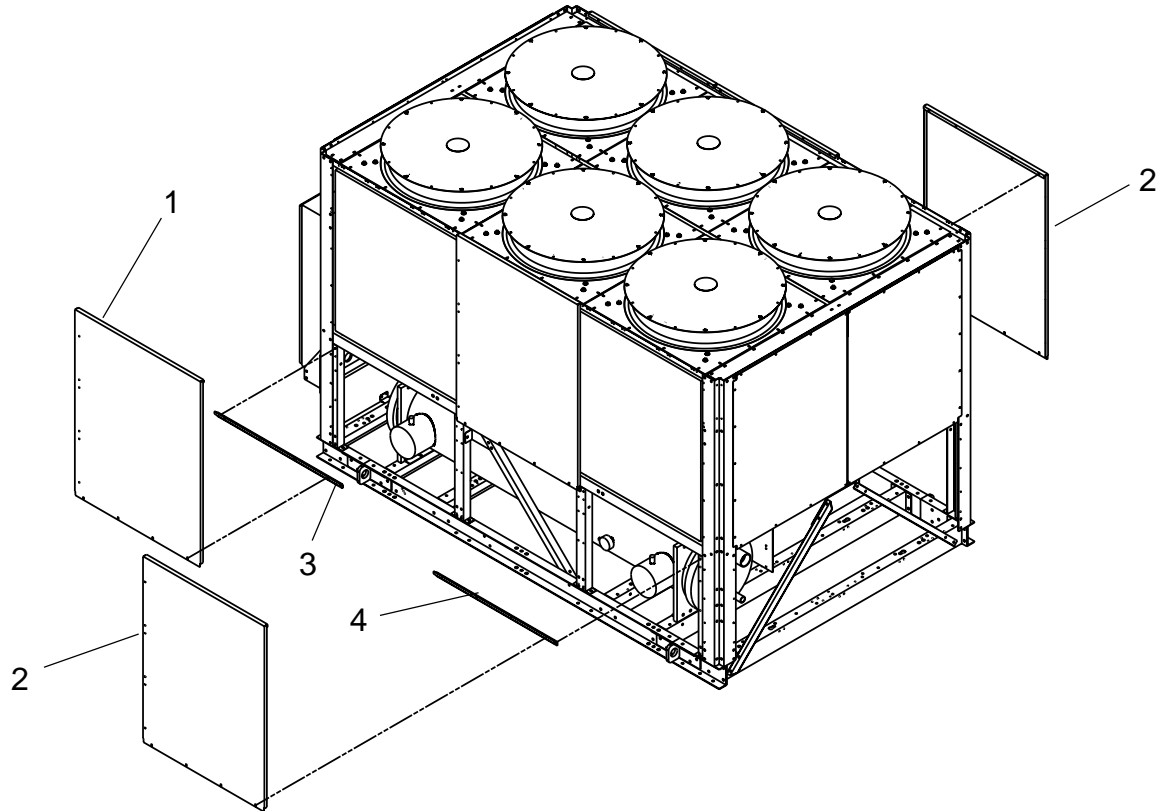


FIG. 33 – BOTTOM SECTION - WIRE ENCLOSURE - KIT NO. 375-29569-101 IS SHOWN.

TABLE 33 – BOTTOM SECTION - WIRE ENCLOSURE

BOTTOM COMPONENT KITS				
ITEM NUMBER	QTY.	DESCRIPTION	375-29569-101	375-29081-121
1	1	REAR SUPPORT	075-29590-000	075-29590-000
2	1	PANEL VANITY RH	N/A	075-29591-000
3	1	PANEL VANITY LH	N/A	075-29592-000
4	1	TAMPERPROOF PANEL	075-29075-000	075-29075-000
5	2	WIRE GRILL CONDENSER REAR	026-36565-000	026-36535-000
6	4	WIRE GRILL CONDENSER DXST	026-36773-000	026-36534-000
7	2	WIRE GRILL CONDENSER DXST	026-36772-000	026-36534-000
Not Shown	1	HARDWARE KIT	321-29569-101	321-29081-121

LOUVERED ENCLOSURE TOP SECTION SPARE PARTS BREAKDOWN



LD06223

FIG. 34 – TOP SECTION - LOUVERED PANEL ENCLOSURE - KIT NO. 375-29571-100 IS SHOWN.

TABLE 34 – TOP SECTION - LOUVERED PANEL ENCLOSURE

TOP COMPONENT KITS				
ITEM NUMBER	QTY.	DESCRIPTION	375-29571-100	375-29571-120
1	2	PANEL LOUVER	075-29068-000	075-29580-000
2	4	PANEL LOUVER	075-29069-000	075-29580-000
3	2	Z CHANNEL	075-29588-000	075-29572-000
4	4	Z CHANNEL TAMPERPROOF	075-29089-000	075-29073-000
Not Shown	1	HARDWARE KIT	321-29571-100	321-29080-120

LOUVERED ENCLOSURE BOTTOM SECTION SPARE PARTS BREAKDOWN

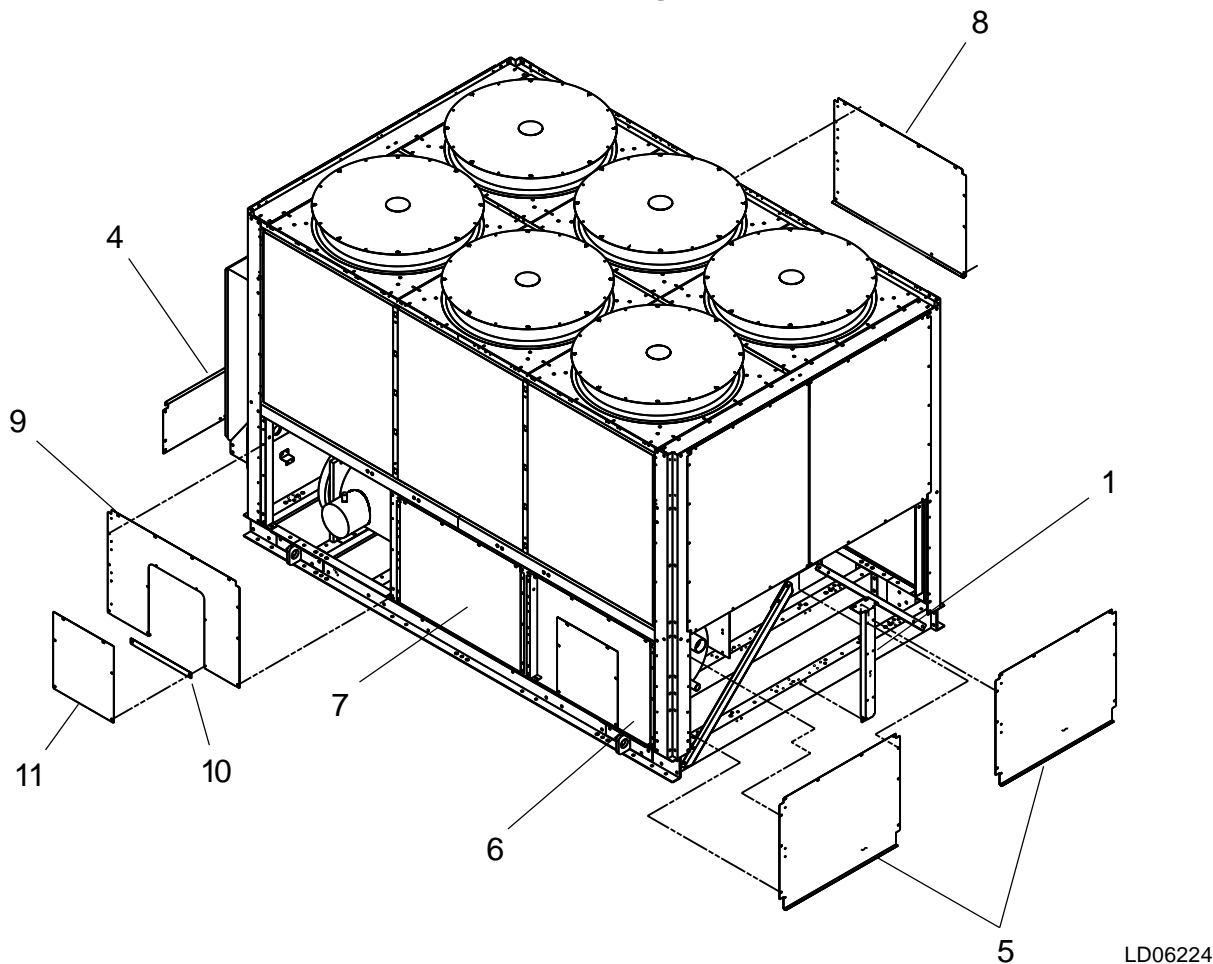


FIG. 35 – BOTTOM SECTION - LOUVERED PANEL ENCLOSURE - KIT NO. 375-29571-101 IS SHOWN.

TABLE 35 – BOTTOM SECTION - LOUVERED PANEL ENCLOSURE

BOTTOM COMPONENT KITS				
ITEM NUMBER	QTY.	DESCRIPTION	375-29571-101	375-29080-121
1	1	REAR SUPPORT	075-29590-000	075-29590-000
2	1	PANEL VANITY RH	N/A	075-29591-000
3	1	PANEL VANITY LH	N/A	075-29592-000
4	1	TAMPERPROOF PANEL	075-29075-000	075-29075-000
5	2	LOUVERED PANEL REAR	075-29585-000	075-29585-000
6	1	LOUVERED PANEL DXST	075-29074-000	075-29583-000
7	3	LOUVERED PANEL DXST	075-29071-000	075-29581-000
8	1	LOUVERED PANEL DXST	075-35802-000	075-29581-000
9	1	LOUVERED PANEL DXST	075-29070-000	075-29582-000
10	1	WATER CONN COVER SUPPORT	075-29587-000	075-29587-000
11	1	WATER CONN COVER	075-29586-000	075-29586-000
Not Shown	1	HARDWARE KIT	321-29571-101	321-29080-121

RECOMMENDED SPARE PARTS
York Model YCAS Style F Air Cooled Screw Chillers
Recommended Spare Parts List for Critical Duty Applications

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

TABLE 36 – SPARE PARTS

TABLE REF. & ITEM	DESCRIPTION	PART NUMBER
Tables 7-10, Item 5	Filter / Drier (liquid line)	026-18328-000
Tables 7&8, Item 1	Valve, Thermal Expansion	025-32904-000
Tables 9&10, Item 1	Valve, Thermal Expansion	025-35757-000
Table 21, Item 1	Ambient Air Temp. Sensor	025-28663-001
Table 21, Item 2	Water Sensor (All)	025-29964-000
Table 21, Item 5	Suction Temp. Sensor	025-28935-000
Table 21, Item 3	Oil Temp. Sensor	025-30440-000
Table 21, Item 4	Discharge Temp. Sensor	025-32924-000
Table 21, Item 6	HP Cut-out (USA Std.)	025-30480-000
Table 21, Item 7	Suction Transducer	025-29583-000
Table 23, Item 1C	Suppressor	031-00808-000
Table 21, Item 8	Discharge Transducer	025-29139-001
Table 5&6, Item 1	Fan Motor	See pages 10&11
Table 5&6, Item 2	Fan Blade	See pages 10&11
Table 14, Item 50	Oil filter cartridge	026-35601-000
Table 14, Item 69	O-ring for above filter	028-13849-000
Table 14, Item Oil	York Type L oil, POE, 5 gal.+	011-00592-000
Table 15, Item 61	Capacity Control Valve	025-33205-000
Table 23, Item 3	Motor Protector	024-30907-000

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

- Chiller Paint, 12 oz. Spray
TAJ3721037 Desert Tan

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