



MILLENNIUM®
PACKAGED LIQUID CHILLERS
AIR COOLED SCREW HERMETIC

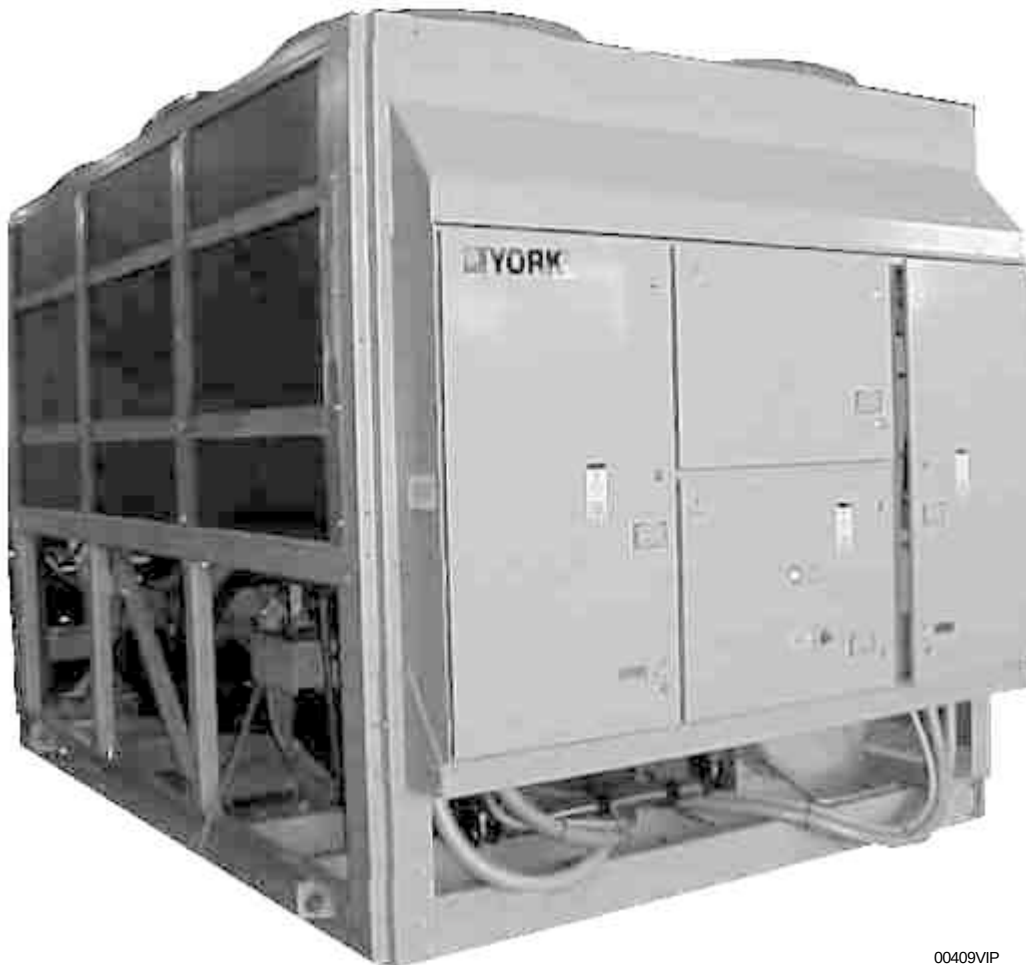
RENEWAL PARTS LIST

New Release

Form 201.18-RP5 (900)

MODELS YCAS0090, YCAS0100, YCAS0110 & YCAS0120

60 HERTZ



00409VIP

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WARNING

HIGH VOLTAGE

Is used in the operation of this equipment.

DEATH OR SERIOUS INJURY

may result if personnel fail to observe safety precautions.

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

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

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

LOW VOLTAGE

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

UNIT NOMENCLATURE NAMEPLATE ENGINEERING DATA

BASIC PART NUMBER

YCAS0100EC46YFA

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15
BASE PRODUCT TYPE				NOMINAL CAPACITY				UNIT DESIGNATOR	REFRIGERANT	VOLTAGE/STARTER			DESIGN/DEVELOPMENT LEVEL	
Y	C	A	S	0	#	#	#	S	B	1	7		F	A
								E	C	2	8			
								K		4	0			
								H		4	6			
										5	8			

: YORK
 : Chiller
 : Air Cooled
 S : Screw
 Tons
 0090
 0100
 0110
 0120
 :Standard Unit
 :High Efficiency
 :Extended Range
 :High Static
 :R-407C
 :R-22
 :200 / 3/ 60
 :230 / 3 /60
 :380 / 3/ 60
 :460 / 3/ 60
 :575 / 3/ 60
 Y :Wye (Star) Delta
 X :Across the Line
 :Design Series F
 :Engineering Change or PIN Level

PART NUMBER – LETTER CODES

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

MP = Multiple Point

SP = Single Point

NF = Non-Fused

TB = Terminal Block

Ser. = Service

Sep. Sys. Brkr. = Separate System Breaker

38	39	40	41	42	43	44	45	46	47	48	49	50	51	52	53	54
EVAP. FIELD							CONDENSER FIELD			CABINET FIELD						
3	D						X			1						
							C			2						
							B			3						
							P			4						
										5						
										6						
										7						
										8						

: 300 PSIG DWP Waterside
 : Double Thick Insulation
 : Weld Flange Kit
 : Victaulic Flange Kit
 : Flow Switch
 : Multinat'l Vessel & Assoc. Safety Codes
 : ASME Pressure Vessel & Associated Codes (American)
 : AS 1210 Vessel & Associated Codes (Australian)
 : French Vessel & Associated Codes (DRIRE)
 : German TUV Vessel & Assoc. Codes (A.D. Merkblatter)
 : Italian Vessel & Associated Codes (ISPESL)
 : Polish Vessel & Associated Codes
 : Remote DX Cooler
 : Aluminum
 : Copper
 :BlackFin
 :Phenolic
 :TEAO Fan Motors
 : Wire (Full Unit) Panels (factory)
 : Wire (Full Unit) Panels (field)
 : Wire/Louvered Panels (factory)
 : Wire/Louvered Panels (field)
 : Louvered (Cond. Only) Panels (factory)
 : Louvered (Cond. Only) Panels (field)
 : Louvered (Full Unit) Panels (factory)
 : Louvered (Full Unit) Panels (field)
 : Compressor Sound Enclosure
 : Low Sound Fans
 : High Static Fans
 : Final Overspray Paint
 1 : 1" Deflection
 S : Seismic
 N : Neoprene Pads

55

EXTENDED WARRANTIES

- X : 1st Year Parts Only
- B : 1st Year Parts & Labor
- C : 2nd Year Parts Only
- D : 2nd Year Parts & Labor
- E : 5 Year Compressor Parts Only
- F : 5 Year Compressor Parts & Labor
- G : 5 Year Unit Parts Only
- H : 5 Year Unit Parts & Labor

NOTES:

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

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EVAPORATOR COMPONENTS

SVC NOTE:
UNWEAT BRAZED ON
STEEL COUPLINGS - FOR
FIELD PIPE CONNECTION

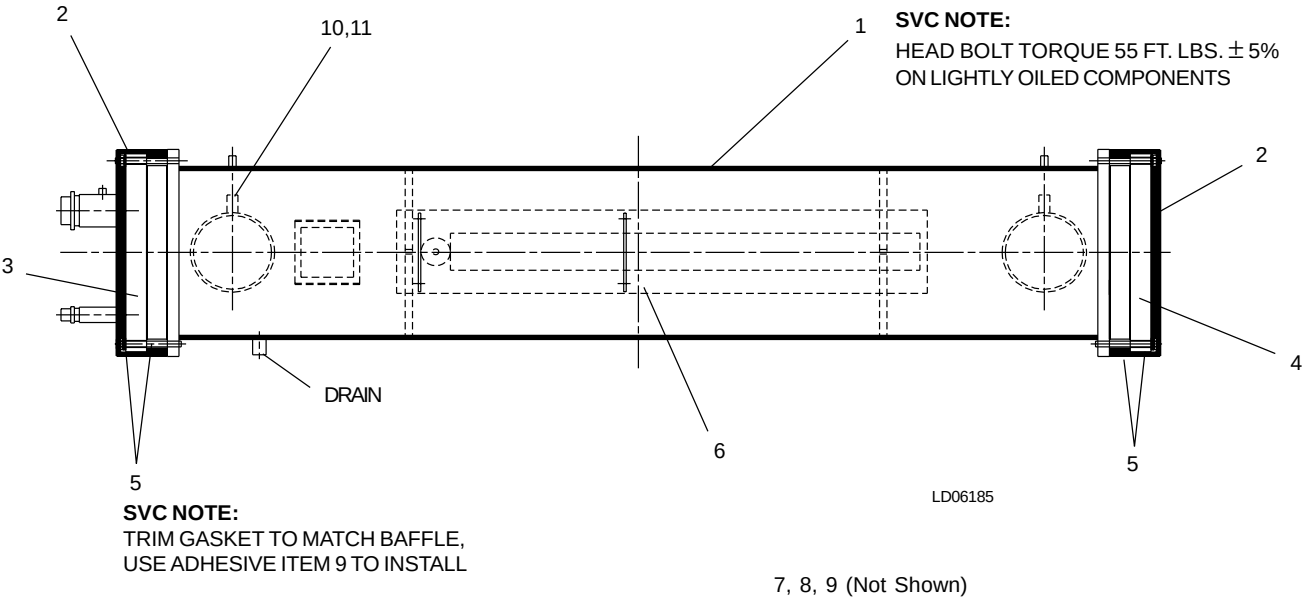


FIG. 1 – EVAPORATOR COMPONENTS - 150 PSI

- 150# EVAPORATOR FLOW SWITCH 024-26116-000

TABLE 1 – EVAPORATOR COMPONENTS - 150 PSI

ITEM NUMBER	QTY. PER UNIT	DESCRIPTION	DWP	UNIT MODEL YCAS0090 THRU YCAS0120
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	023-01564-000
11	2	Well, Thermo CU 1/2" x 9-1/2"	ALL	026-33627-000

EVAPORATOR COMPONENTS (CONT'D)

SVC NOTE:

UNWEAT BRAZED ON
STEEL COUPLINGS - FOR
FIELD PIPE CONNECTION

SVC NOTE:

HEAD BOLT TORQUE 55 FT. LBS. $\pm$ 5%
ON LIGHTLY OILED COMPONENTS

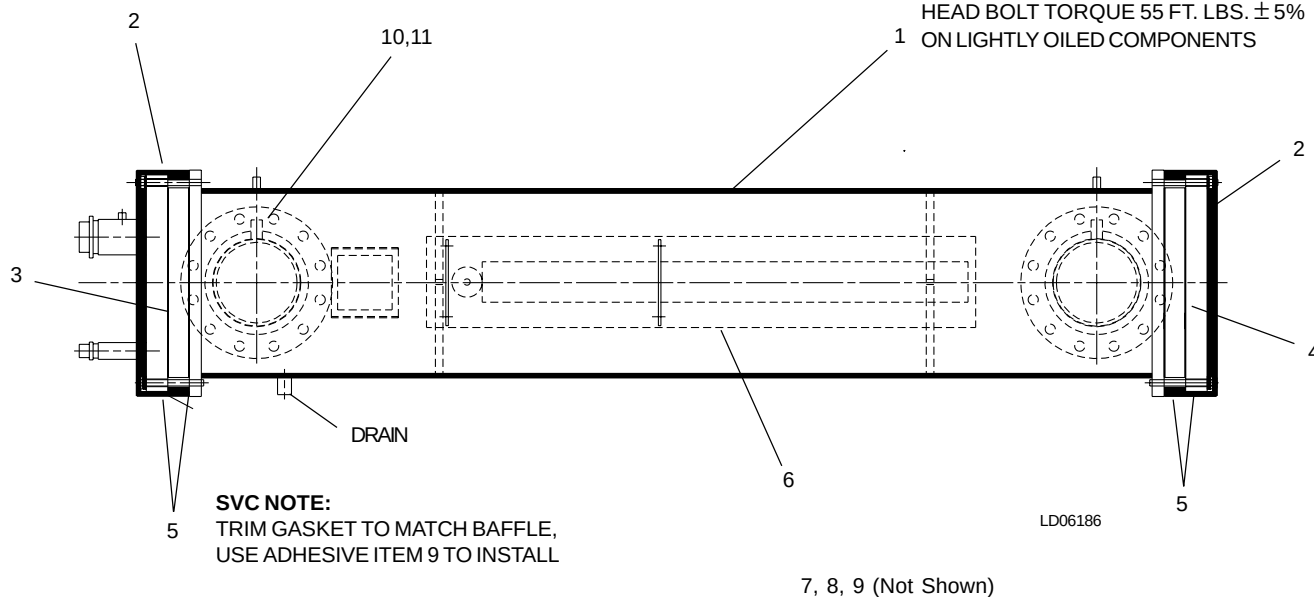


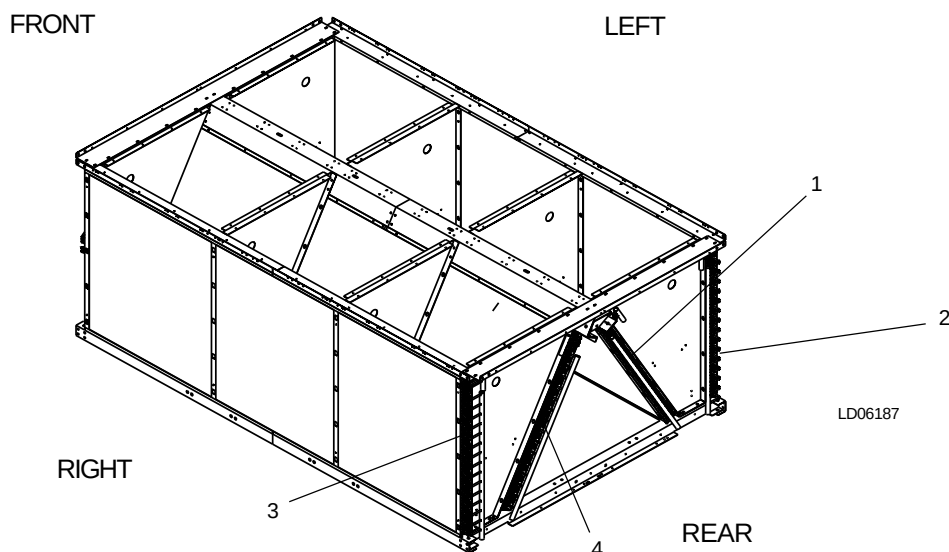
FIG. 2 – EVAPORATOR COMPONENTS - 300 PSI

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

TABLE 2 – EVAPORATOR COMPONENTS - 300 PSI

ITEM NUMBER	QTY. PER UNIT	DESCRIPTION	DWP	UNIT MODEL YCAS0090 THRU YCAS0120
1	1	Evaporator, less Heater & Insulation (Items 2 thru 5)	300	375-32154-000
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	023-01564-000
11	2	Well, Thermo CU 1/2" x 9-1/2"	ALL	026-33627-000

CONDENSER COIL COMPONENTS



VIEW OF CHILLER FROM POWER PANEL END

FIG. 3 – CONDENSER COIL LAYOUT

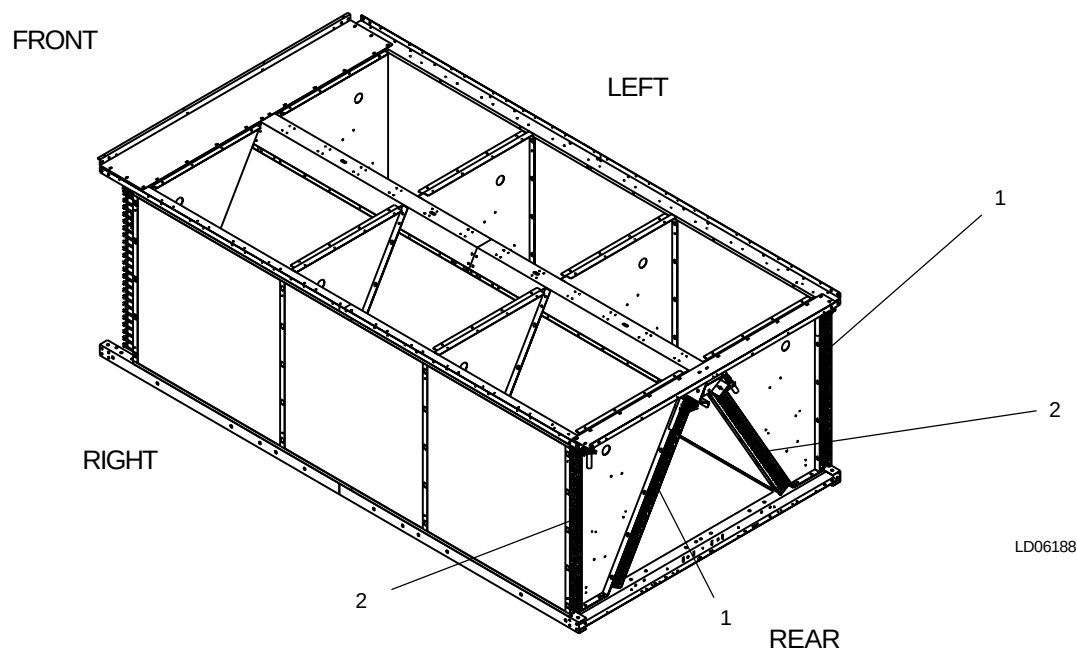
Coils for each circuit are denoted left and right as viewed from power panel end of chiller.

TABLE 3 – CONDENSER COILS – YCAS0090 AND YCAS0100

			MODELS YCAS0090 - 0100 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

NOTES: Coil Assemblies are complete with headers.
For headers – contact Factory Service.
Tube-In-Tube Repairs – contact Factory Service.

CONDENSER COIL COMPONENTS (CONT'D)



VIEW OF CHILLER FROM POWER PANEL END

FIG. 4 – CONDENSER COIL LAYOUT

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

TABLE 4 – CONDENSER COILS – YCAS0090 AND YCAS 0100

			MODELS YCAS0110 - 0120 12' COIL
ITEM NUMBER	DESCRIPTION	QTY.	YORK PART NO.
ALUMINUM FIN COIL			
1	Cond. Coil Assembly, Right	2	375-27435-001
2	Cond. Coil Assembly, Left	2	375-27435-002
BLACK FIN COIL			
1	Cond. Coil Assembly, Right	2	375-23772-001
2	Cond. Coil Assembly, Left	2	375-23772-002
PHENOLIC COATED ALUMINUM FIN			
1	Cond. Coil Assembly, Right	2	375-29011-001
2	Cond. Coil Assembly, Left	2	375-29011-002
COPPER FIN			
1	Cond. Coil Assembly, Right	2	375-23778-001
2	Cond. Coil Assembly, Left	2	375-23778-002

NOTES: Coil Assemblies are complete with headers.
 For headers – contact Factory Service.
 Tube-In-Tube Repairs – contact Factory Service.

FAN COMPONENTS

CHILLER MODELS YCAS0090 AND YCAS0100

TABLE 5 – FAN COMPONENTS - CHILLER MODELS YCAS0090 AND YCAS0100

ITEM NUMBER	DESCRIPTION	VOLTAGE CODE	FAN TYPE	
			STANDARD 7/8" Ø SHAFT, 1160 RPM	LOW NOISE (OPTIONAL) 7/8" Ø SHAFT, 850 RPM
1 ^s	Motor 2 HP (Wt. = 50 LBS.)	-17	024-30900-002	024-30933-002
		-28	024-30900-002	024-30933-002
		-40	024-30900-004	024-30933-004
		-46	024-30900-001	024-30933-001
		-58	024-30900-003	024-30933-003
2 ^s	Blade	All	026-35604-000 21°	026-36532-000 30°
3	Guard	All	026-35605-000	
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

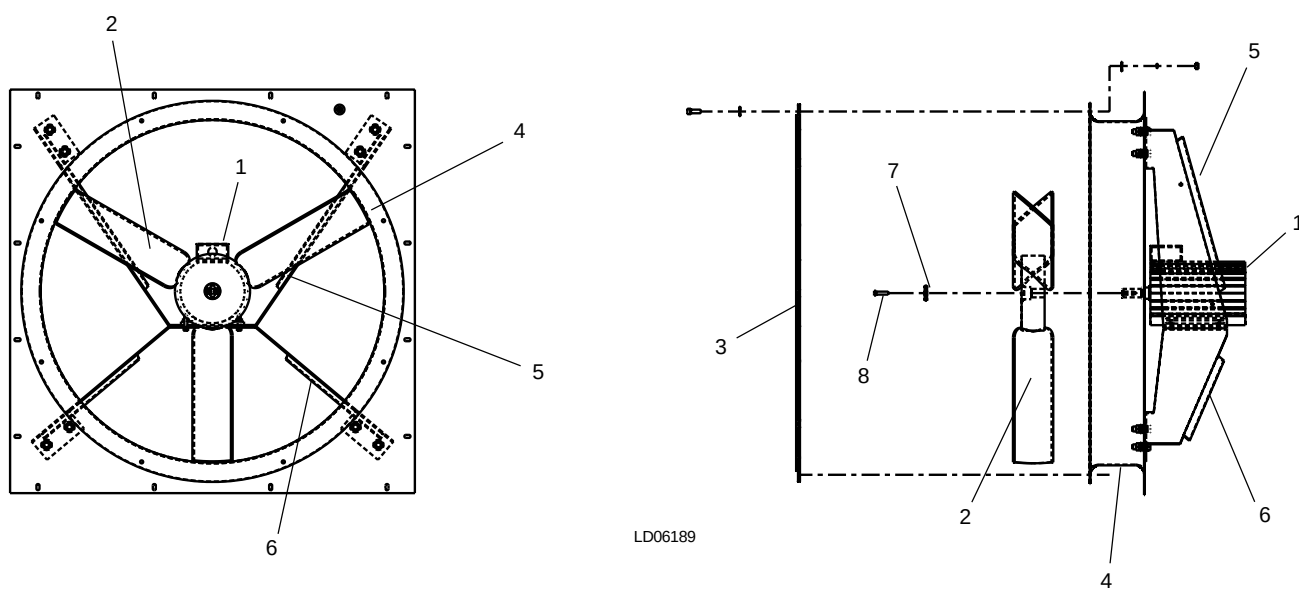


FIG. 5 – FAN COMPONENTS - CHILLER MODELS YCAS0090 AND YCAS0100

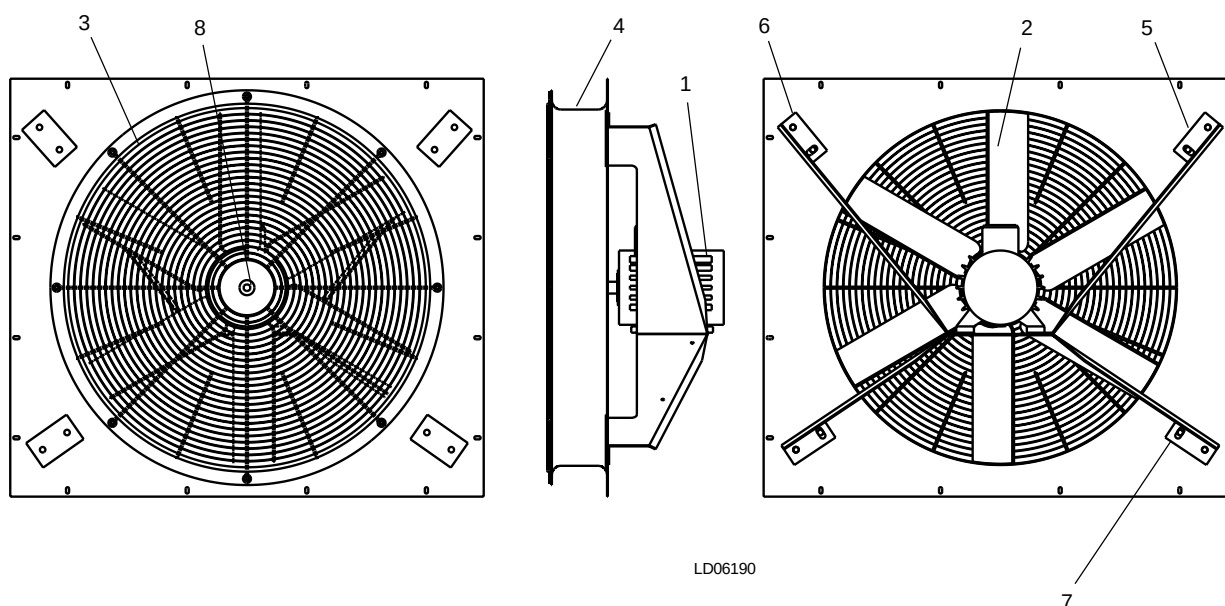
FAN COMPONENTS (CONT'D)

CHILLER MODELS YCAS0110 AND YCAS0120

TABLE 6 – FAN COMPONENTS - CHILLER MODELS YCAS0110 AND YCAS0120

ITEM NUMBER	DESCRIPTION	VOLTAGE CODE	FAN TYPE	
			STANDARD 1 1/8" Ø SHAFT, 1160 RPM	LOW NOISE (OPTIONAL) 1 3/8" Ø SHAFT, 850 RPM
1^s	Motor 3 HP (Wt. = 50 LBS.)	-17	024-25179-002	024-25247-000
		-28	024-25179-002	024-25247-000
		-40	024-25179-001	024-25247-000
		-46	024-25179-001	024-25247-000
		-58	024-25250-000	024-25252-000
2^s	Blade	All	026-36769-000 21°	026-36786-000 30°
3	Guard	All	026-35605-000	
4	Orifice	All	026-36141-000	
5	Support, Motor, Upper	All	075-25584-000	
6	Support, Motor, Lower	All	075-25583-000	
7	Spacer, Fan Motor	All	075-29007-000	
8	Screw, Cap	All	021-18494-000	

^sRecommended Spare Part

**FIG. 6 – FAN COMPONENTS - CHILLER MODELS YCAS0110 AND YCAS0120**

PIPING COMPONENTS CHILLER MODEL YCAS0090

TABLE 7 – PIPING COMPONENTS (SEE FIG. 7, PAGE 13)

ITEM NO.	QTY PER UNIT	DESCRIPTION	SYSTEM	YCAS0090
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 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 YCAS0090

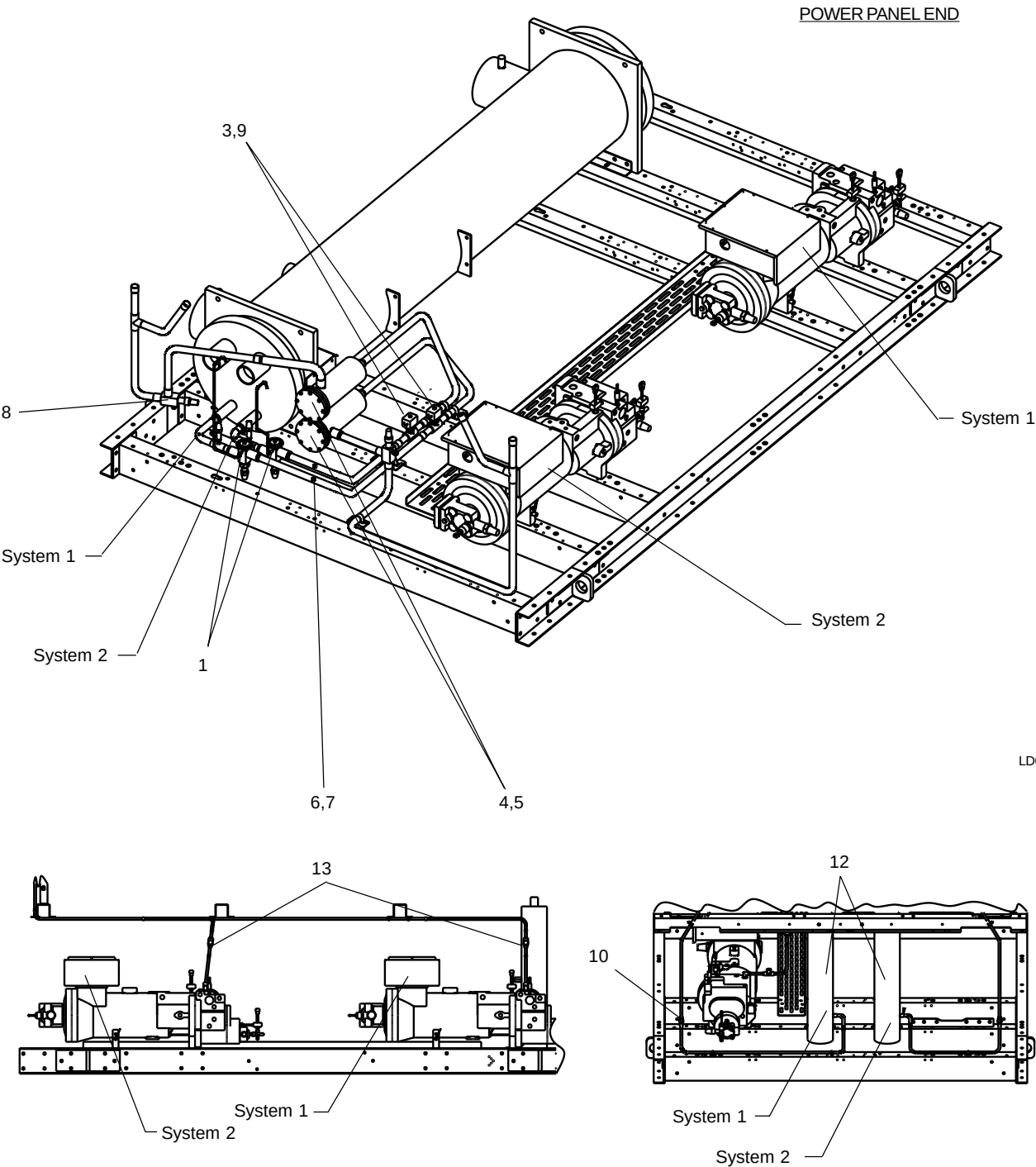


FIG. 7 – PIPING COMPONENTS (REF. TABLE 7, PAGE 12)

PIPING COMPONENTS (CONT'D)

CHILLER MODEL YCAS0100

TABLE 8 – PIPING COMPONENTS (SEE FIG. 8, PAGE 15)

ITEM NO.	QTY PER UNIT	DESCRIPTION	SYSTEM	YCAS0100
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 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 COMPONENTS (CONT'D)

CHILLER MODEL YCAS0100

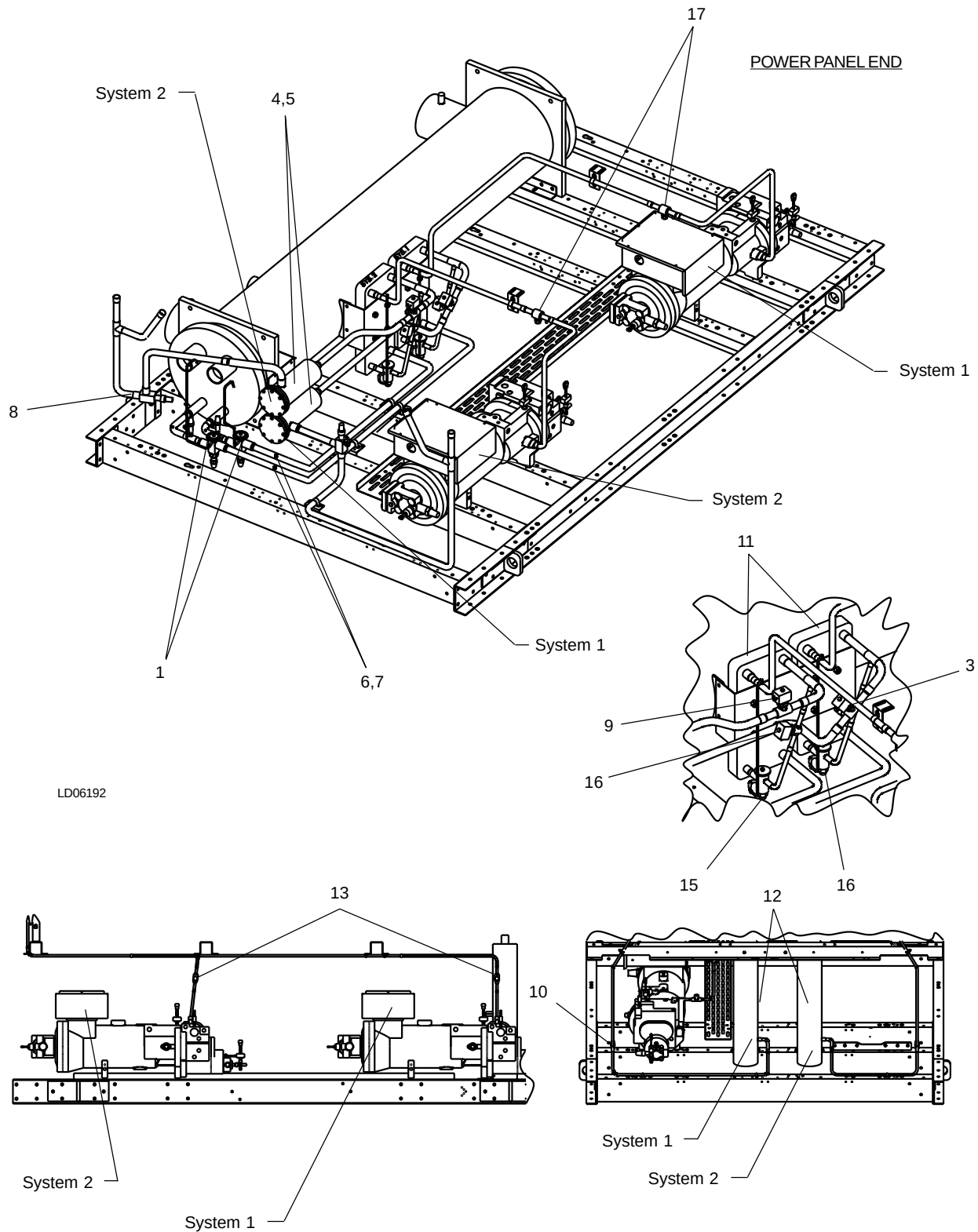


FIG. 8 – PIPING COMPONENTS (REF. TABLE 8, PAGE 14)

PIPING COMPONENTS (CONT'D)

CHILLER MODEL YCAS0110

TABLE 9 – PIPING COMPONENTS (SEE FIG. 9, PAGE 17)

ITEM NO.	QTY PER UNIT	DESCRIPTION	SYSTEM	YCAS0110
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 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 YCAS0110

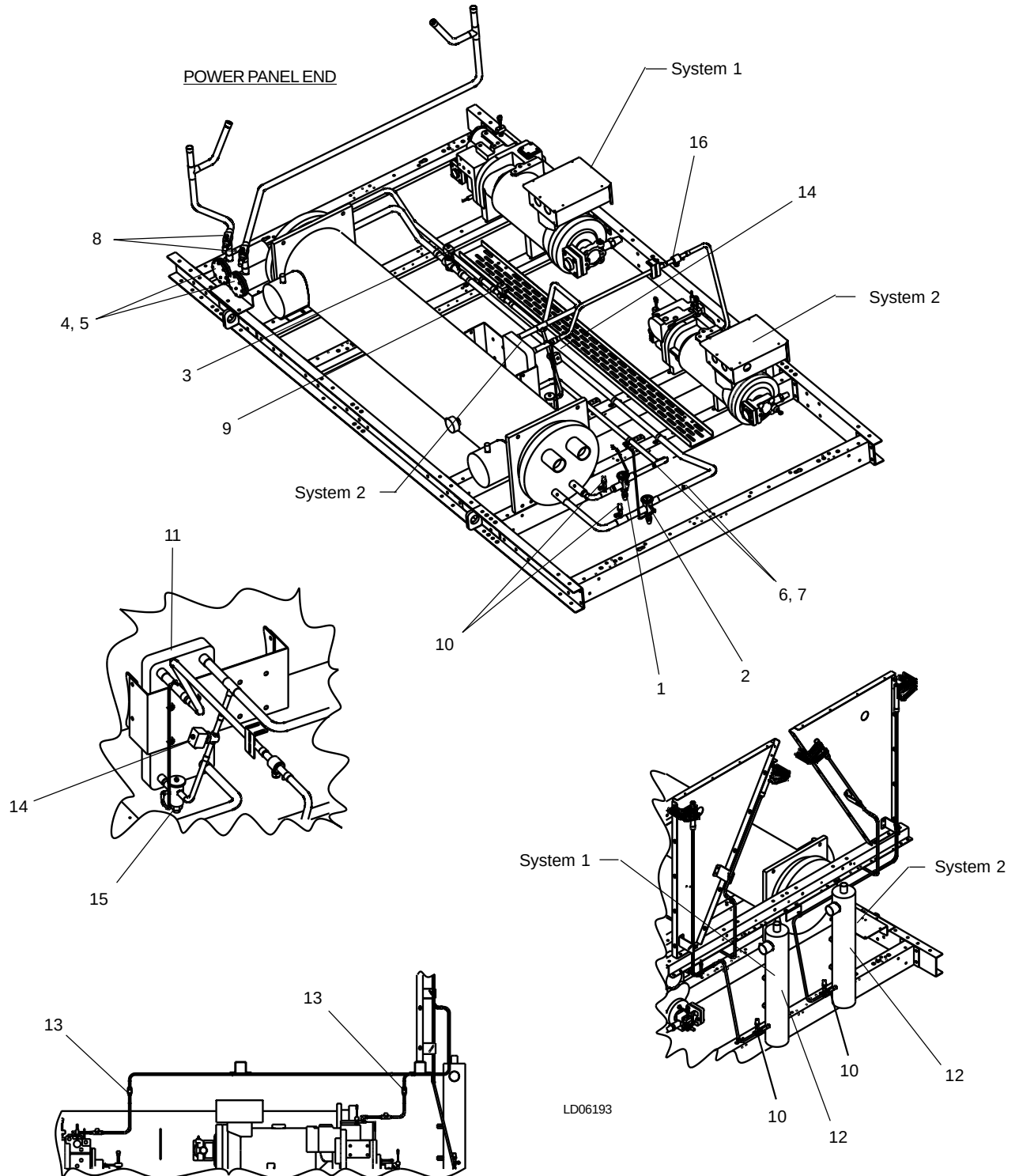


FIG. 9 – PIPING COMPONENTS (REF. TABLE 9, PAGE 16)

PIPING COMPONENTS (CONT'D)

CHILLER MODEL YCAS0120

TABLE 10 – PIPING COMPONENTS (SEE FIG. 10, PAGE 19)

ITEM NO.	QTY PER UNIT	DESCRIPTION	SYSTEM	YCAS0120
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 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 YCAS0120

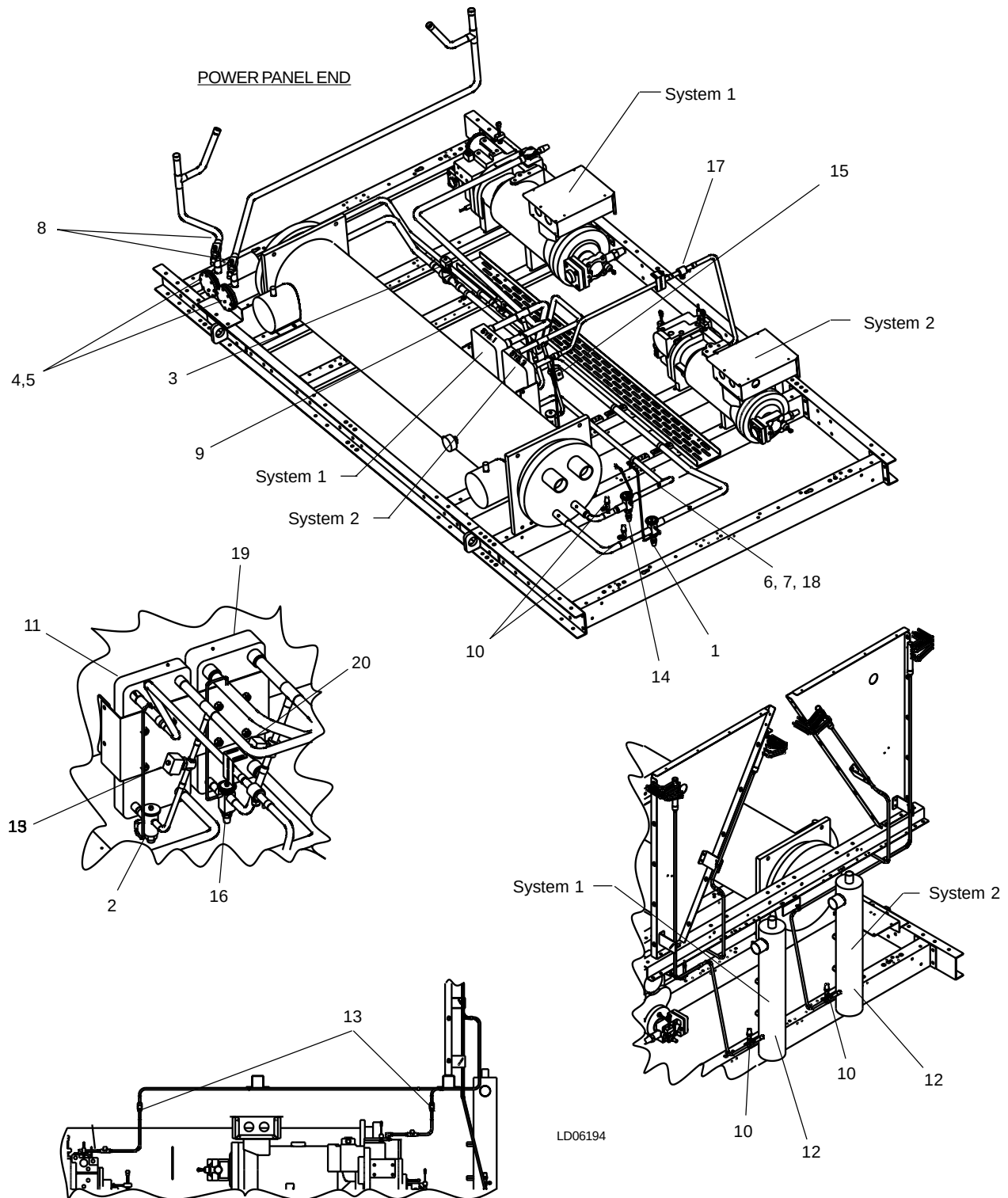


FIG. 10 – PIPING COMPONENTS (REF. TABLE 10, PAGE 18)

RELIEF VALVES AND HP CUTOUT SWITCH

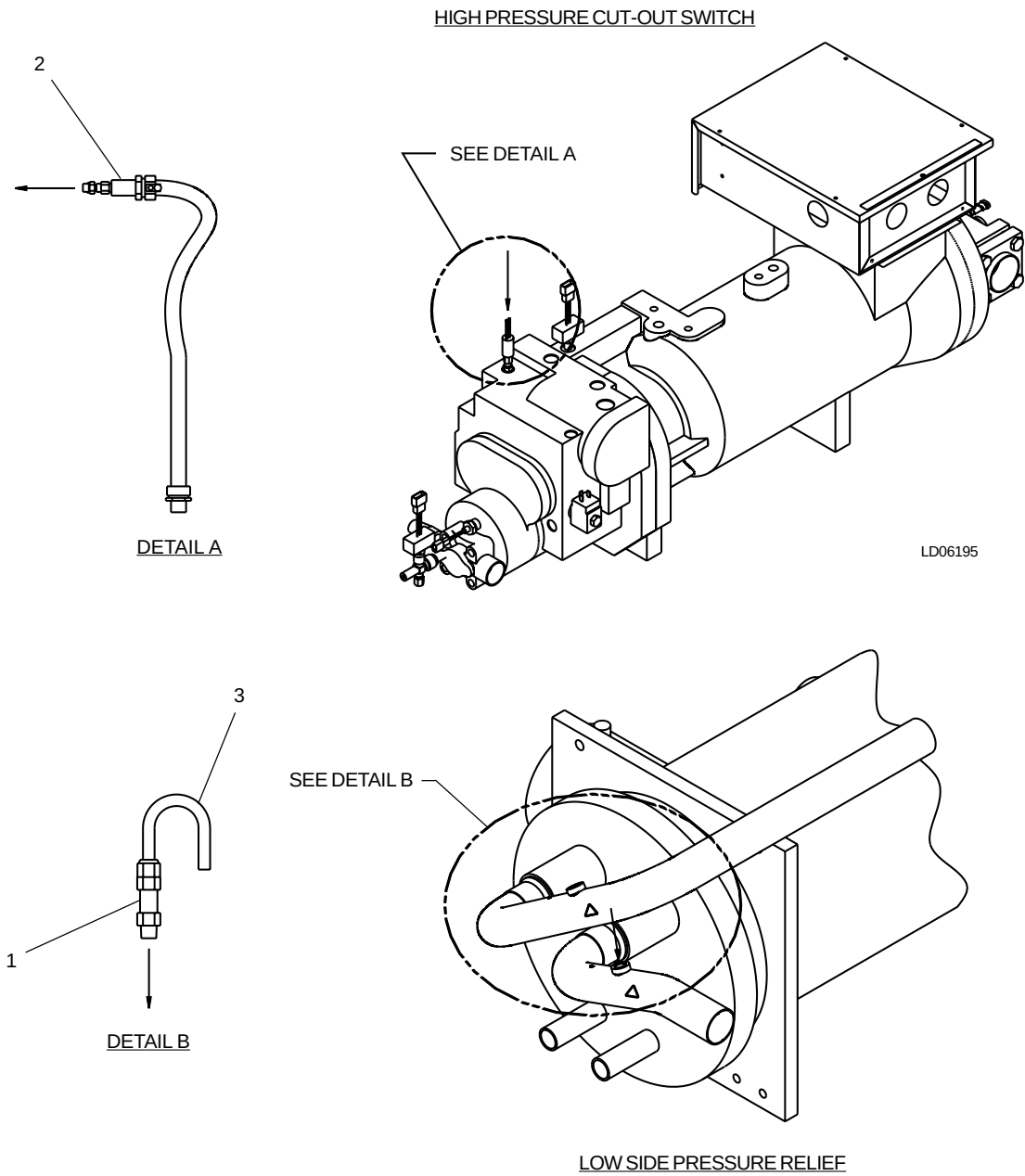


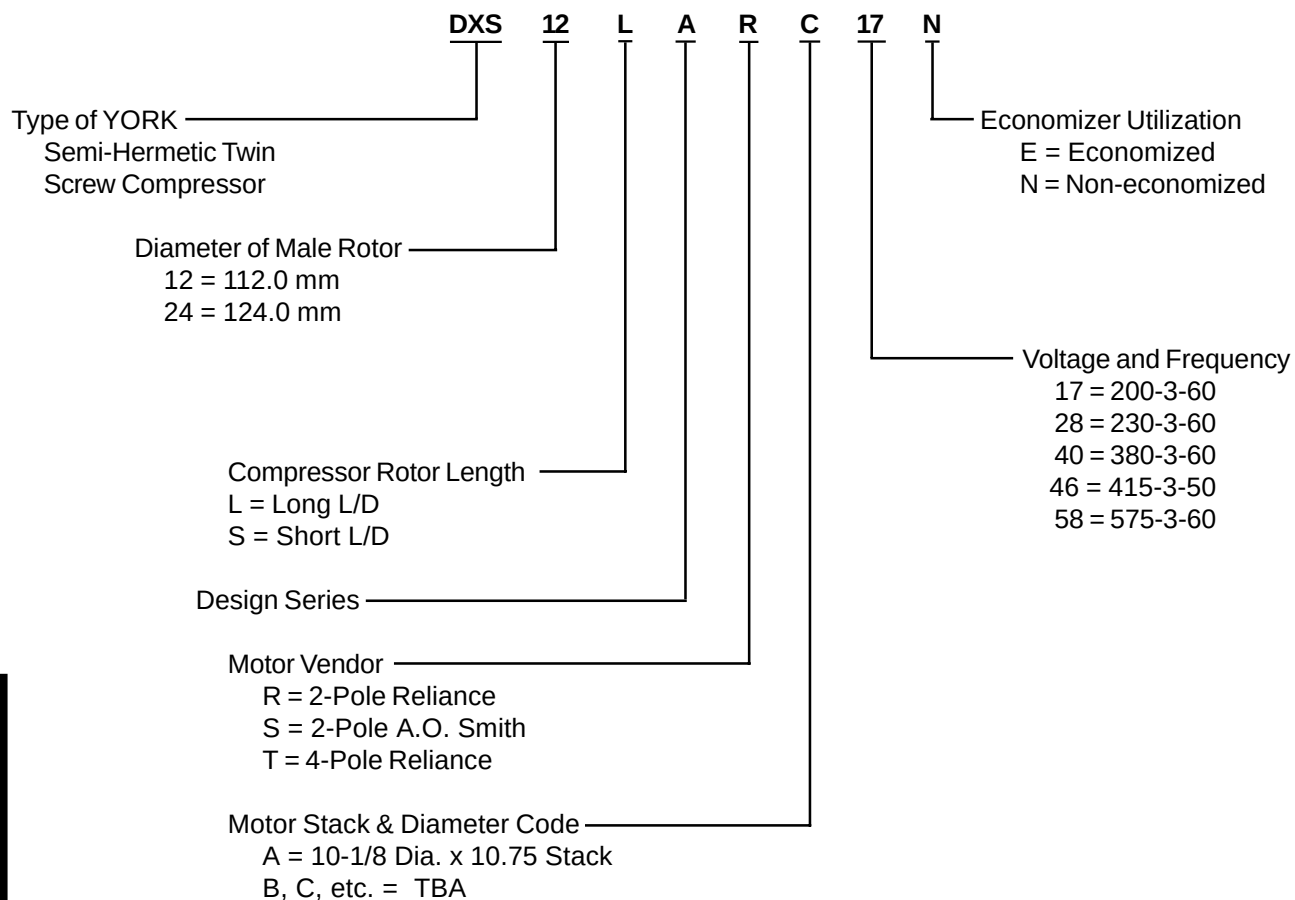
FIG. 11 – RELIEF VALVES AND HP CUTOUT SWITCH

TABLE 11 – RELIEF VALVES AND HP CUTOUT SWITCH

ITEM	QUANTITY	DESCRIPTION	SYSTEM	ALL MODELS
1	2	Low Side Relief, Angle V 21 Bar	Both	022-10045-000
2	2	HP Sw, NC, Auto Reset	Both	025-30480-000
3	2	Tube for 1	Both	375-30919-000

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COMPRESSOR MODEL NOMENCLATURE



COMPRESSOR WEIGHTS

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

* LESS VALVES

COMPRESSOR PART NUMBERS

COMPRESSOR PART NUMBERS					
UNIT	VOLTAGE CODE	SIZE (MM)		COMPRESSOR	
		SYS 1	SYS 2	SYSTEM # 1	SYSTEM # 2
YCAS0090	-17	112	112	364-49096-012	364-49096-012
	-28	112	112	364-49096-013	364-49096-013
	-40	112	112	364-49096-014	364-49096-014
	-46	112	112	364-49096-015	364-49096-015
	-58	112	112	364-49096-016	364-49096-016
YCAS0100	-17	112	112	364-49096-112	364-49096-112
	-28	112	112	364-49096-113	364-49096-113
	-40	112	112	364-49096-114	364-49096-114
	-46	112	112	364-49096-115	364-49096-115
	-58	112	112	364-49096-116	364-49096-116
YCAS0110	-17	124	112	364-49095-012	364-49096-112
	-28	124	112	364-49095-013	364-49096-113
	-40	124	112	364-49095-014	364-49096-114
	-46	124	112	364-49095-015	364-49096-115
	-58	124	112	364-49095-016	364-49096-116
YCAS0120	-17	124	112	364-49095-112	364-49096-112
	-28	124	112	364-49095-113	364-49096-113
	-40	124	112	364-49095-114	364-49096-114
	-46	124	112	364-49095-115	364-49096-115
	-58	124	112	364-49095-116	364-49096-116

Compressor

- 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 one per each compressor or
475-37845-001 one per each compressor
(Not required for compressor change out)

COMPRESSOR COMPONENTS

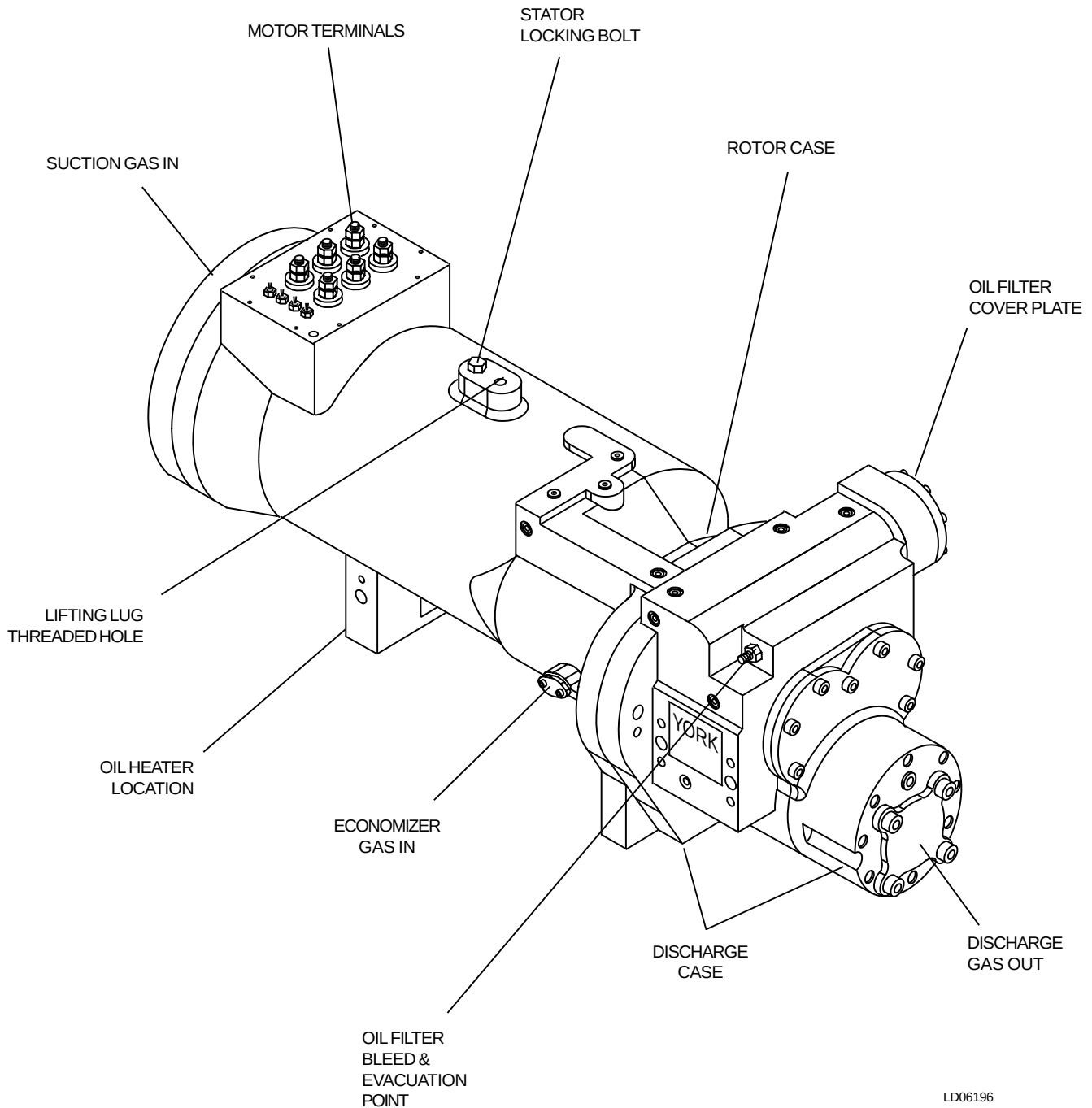


FIG. 12 – DXS COMPRESSOR OUTLINE

COMPRESSOR COMPONENTS / RELATED PARTS

TABLE 12 – COMPRESSOR ASSEMBLY (SEE FIG. 13, PAGE 26)

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	PLUG - HOLLOW HEX 1-7/8"	029-22735-000
14	RING, RETAINING	029-22743-000
18	O-RING 3 - 908	028-13856-000
28	PLUG - HOLLOW HEX 9/16"	023-18922-000
29	O-RING 3 - 906	028-13855-000
30	PLUG - 0.032 ORIFICE	029-22716-000
31	PLUG - 0.093 ORIFICE	029-22717-000
32	PLUG, HOLLOW HEX - 3/4"	023-18923-000
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

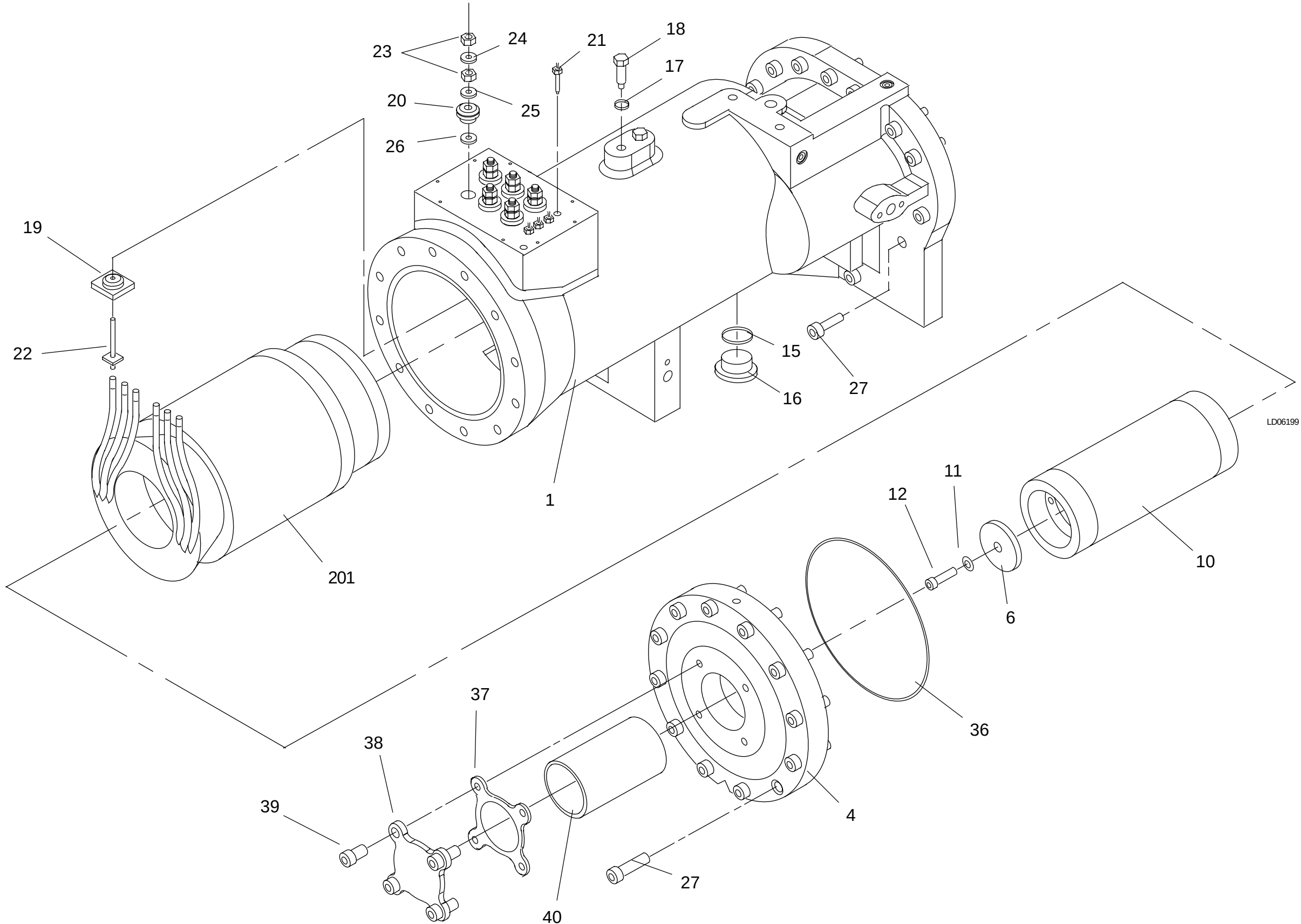
- Compressor Change Out Kit
(Includes gaskets and O-Rings)
464-49737-000 one per each compressor

Compressor



26

COMPRESSOR COMPONENTS / RELATED PARTS (CONT'D)



Compressor

FIG. 14 – COMPRESSOR COMPONENTS - 112 MM COMPRESSOR SHOWN (REF. TABLE 13, PAGE 29)

COMPRESSOR COMPONENTS / RELATED PARTS (CONT'D)

Compressor

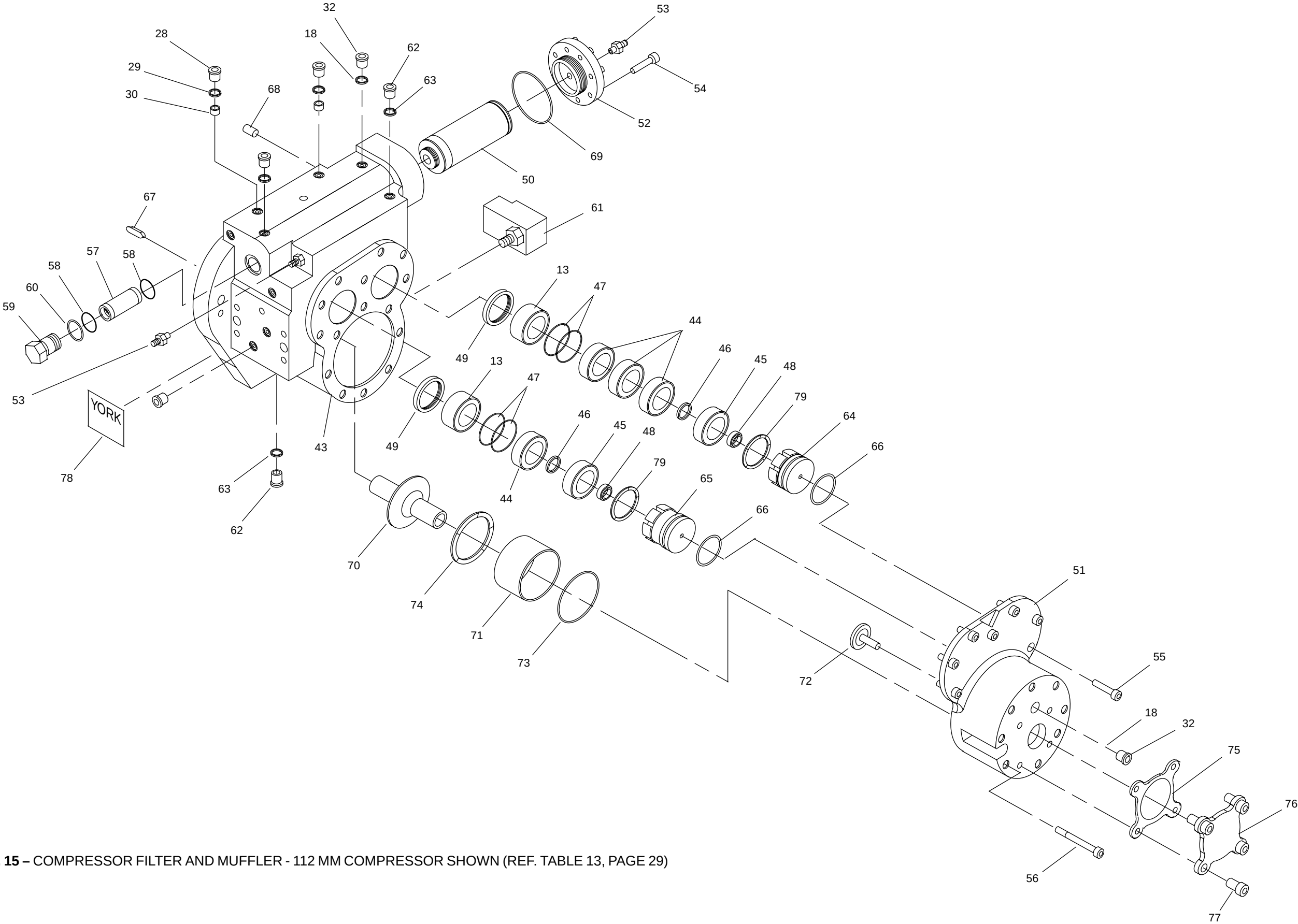


FIG. 15 – COMPRESSOR FILTER AND MUFFLER - 112 MM COMPRESSOR SHOWN (REF. TABLE 13, PAGE 29)

COMPRESSOR COMPONENTS / RELATED PARTS (CONT'D)

TABLE 13 – COMPRESSOR ASSEMBLY (SEE FIGS. 14 AND 15, PAGES 27, 27A, 27B AND 28)

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

COMPRESSOR COMPONENTS / RELATED PARTS (CONT'D)

TABLE 13 (CONT'D) – COMPRESSOR ASSEMBLY (SEE FIGS. 14 AND 15, PAGES 27, 27A, 27B AND 28)

ITEM NO.	PART DESCRIPTION	PART NUMBER
52	COVER, OIL FILTER	064-49003-000
53	VALVE, ACCESS - 7/16"	022-09715-000
54	SCREW, SOCKET HD. CAP - M8 x 30mm LG.	021-19115-000
55	SCREW, SOCKET HD. CAP - M8 x 35mm LG.	021-19617-000
56	SCREW, SOCKET HD. CAP - M8 x 80mm LG.	021-19616-000
57	VALVE, OIL CONTROL	022-09710-000
58	O-RING 2 - 023	028-13859-000
59	PLUG, OIL RETURN VALVE	064-49135-000
60	O-RING 3 - 916	028-13857-000
61	VALVE, CAPACITY CONTROL	025-33205-000
62	PLUG - HOLLOW HEX 7/16"	023-18921-000
63	O-RING 3 - 904	028-13854-000
64	SLEEVE, M.R. SPACER BEARING	064-49511-000
65	SLEEVE, F.R. SPACER BEARING	064-49512-000
66	O-RING 2 - 148	028-13947-000
67	PIN, DOWEL - 12mm x 40mm LG. (SPECIAL)	029-22712-000
68	PIN, DOWEL - 12mm x 40mm LG.	029-22713-000
69	O-RING 2 - 152	028-13849-000
70	ORIFICE, MUFFLER	064-49515-000
71	SPACER, MUFFLER	064-49514-000
72	BUTTON, CHECK VALVE	064-49507-000
73	O-RING 2 - 155	028-13962-000
74	SPRING, MUFFLER PRELOAD	029-22912-000
75	GASKET 1-1/2"	028-13862-000
76	PLATE, VALVE COVER	064-49010-000
77	SCREW, SOCKET HD. CAP - M12 x 30mm LG.	021-19119-000
78	PLATE, DATA	029-22722-000
79	SPRING, BEARING PRELOAD	029-22913-000
201	STATOR, MOTOR - 17	024-30911-002
	- 28	024-30911-003
	- 40	024-30911-004
	- 46	024-30911-005
	- 58	024-30911-006

**TABLE 14 – COMPRESSOR OIL AND FILTER COMPONENTS
(SEE FIG. 15, PAGES 27B AND 28)**

ITEM NO.	QTY PER COMP	DESCRIPTION	MODEL YCAS0090 - YCAS0120
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 15 – COMPRESSOR AND CONTROL COMPONENTS (SEE FIG. 16)

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 16 – COMPRESSOR STOP VALVES AND GASKETS (SEE FIG. 16)

ITEM NO.	DESCRIPTION	APPLICATION	PART NUMBER
205	Stop Valve, 1-3/8	112mm discharge; 124mm Economizer Port	022-03727-003
206	Gasket, 1-3/8 Valve		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

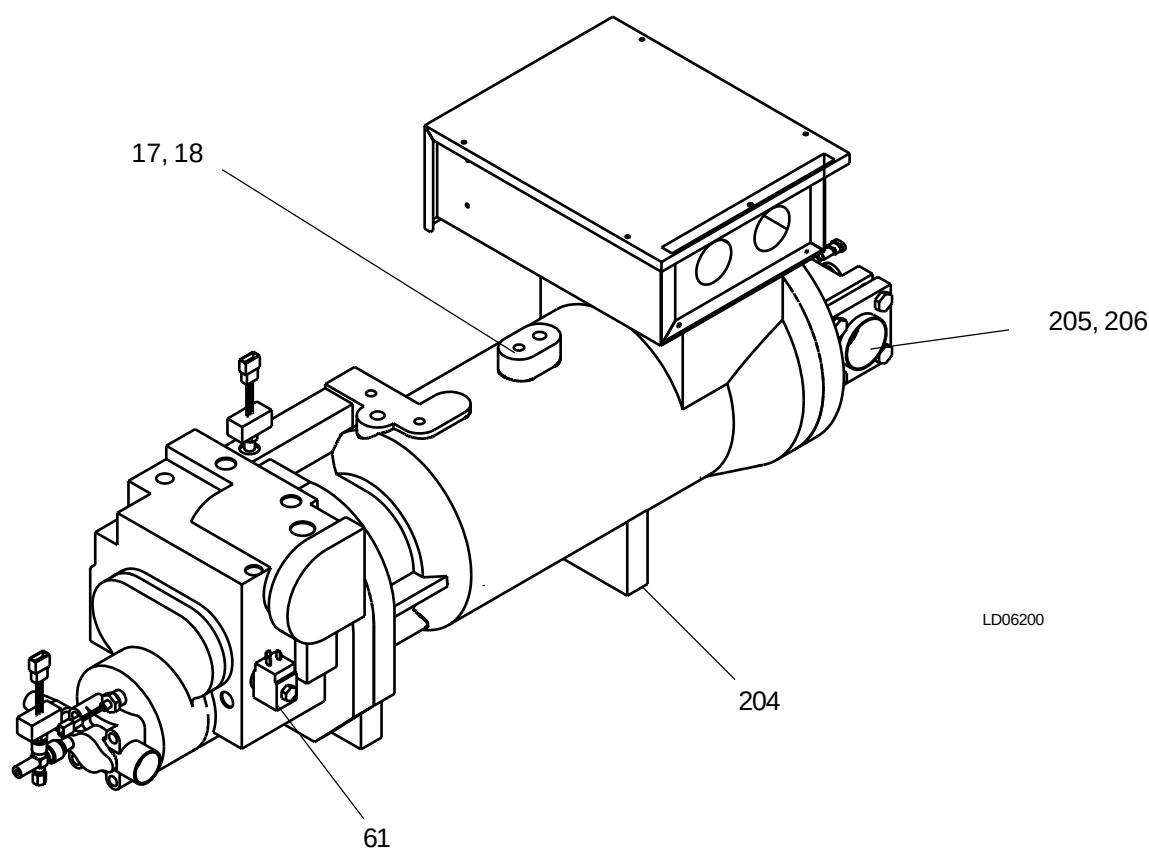


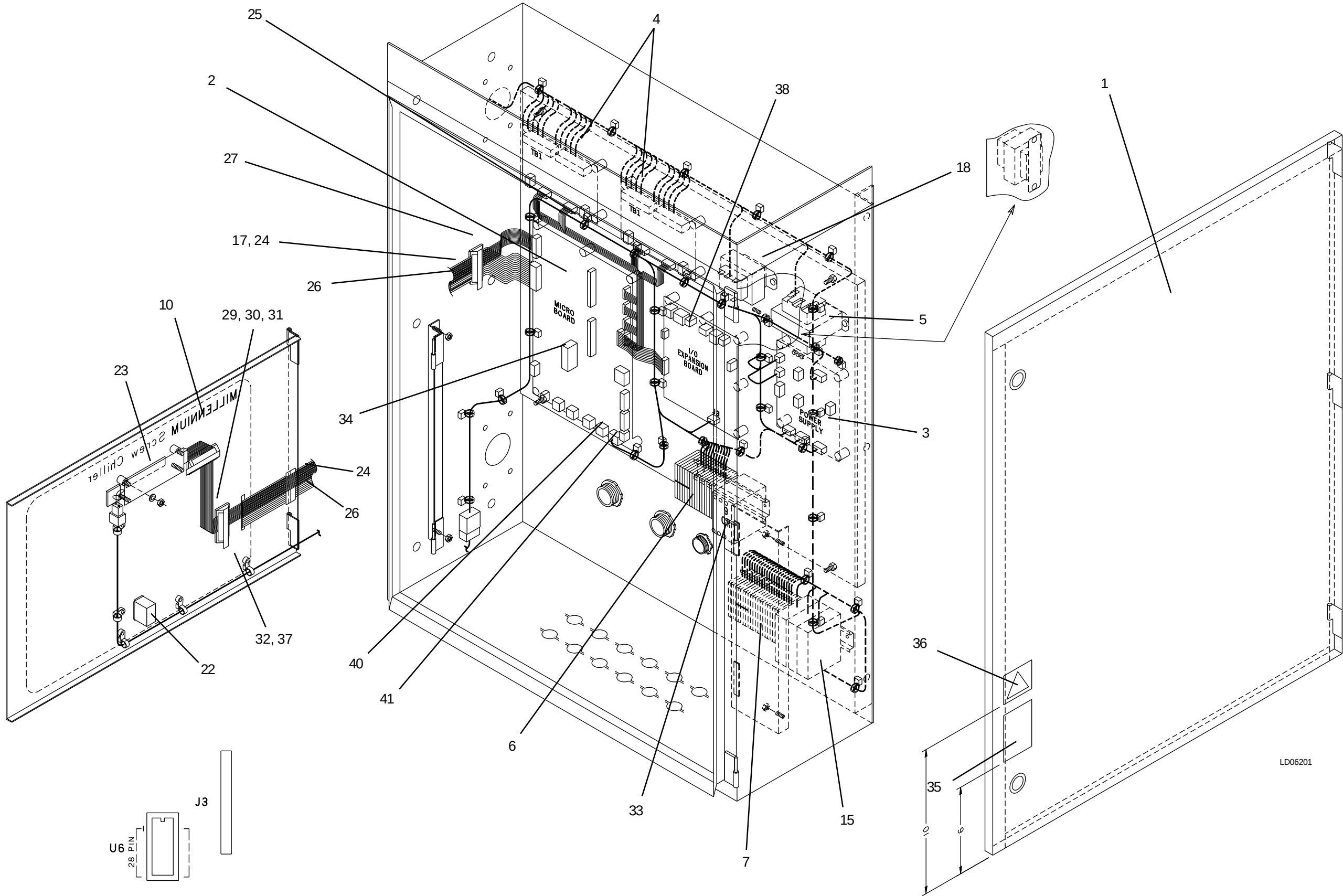
FIG. 16 – COMPRESSOR AND CONTROL COMPONENTS (REF. TABLES 15 AND 16)

MICRO PANEL COMPONENTS

TABLE 17– MICRO PANEL COMPONENTS (SEE FIGS.17 AND 18, PAGES 33, 33A, 33B AND 34)

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	Varies	Plug, 9 Pin	025-28383-000	See Pages 33, 33A, 33B and 34
41	Varies	Plug, 12 Pin	025-28384-000	See Pages 33, 33A, 33B and 34

MICRO PANEL COMPONENTS (CONT'D)



Micro Panel

FIG. 17 – MICRO PANEL AND BOX

SENSOR HARNESS

CHILLER MODELS YCAS0090 AND YCAS0100

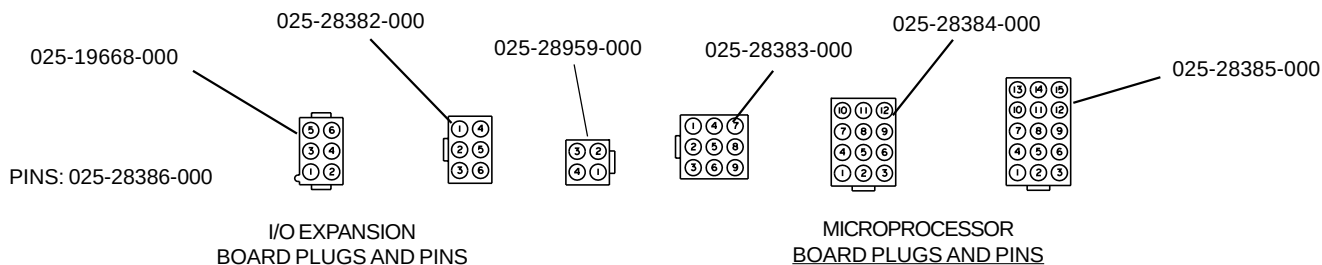
TABLE 18 – SENSOR HARNESS WIRING (SEE FIGS. 19, 20 AND 21, PAGES 35, 36 AND 37)

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		
		DRAIN	2		
	2	RED	5	SYS #1 OIL PRESSURE	375-33776-403
		BLK	3		
		WHT	8		
		DRAIN	9		
MICRO P14	3	RED	4	SYS #2 SUCTION PRESSURE	375-33776-402
		BLK	1		
		WHT	7		
		DRAIN	2		
	4	RED	5	SYS #2 OIL PRESSURE	375-33776-404
		BLK	3		
		WHT	8		
		DRAIN	9		
MICRO P11	5	RED	7	LEAVING CHILLED WATER	375-33776-415
		BLK	4		
		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		
		DRAIN	9		
	9	RED	4	SYS #2 DISCH. PRESSURE	375-33776-406
		BLK	1		
		WHT	7		
		DRAIN	2		
MICRO P16	10	RED	5	SYS #1 SUCTION TEMP.	375-33776-411
		BLK	6		
		DRAIN	1		
	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		

Micro 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)

**FIG. 19 – SENSOR HARNESS PLUGS AND PINS**

LD06203

SENSOR HARNESS (CONT'D) **CHILLER MODELS YCAS0090 AND YCAS0100**

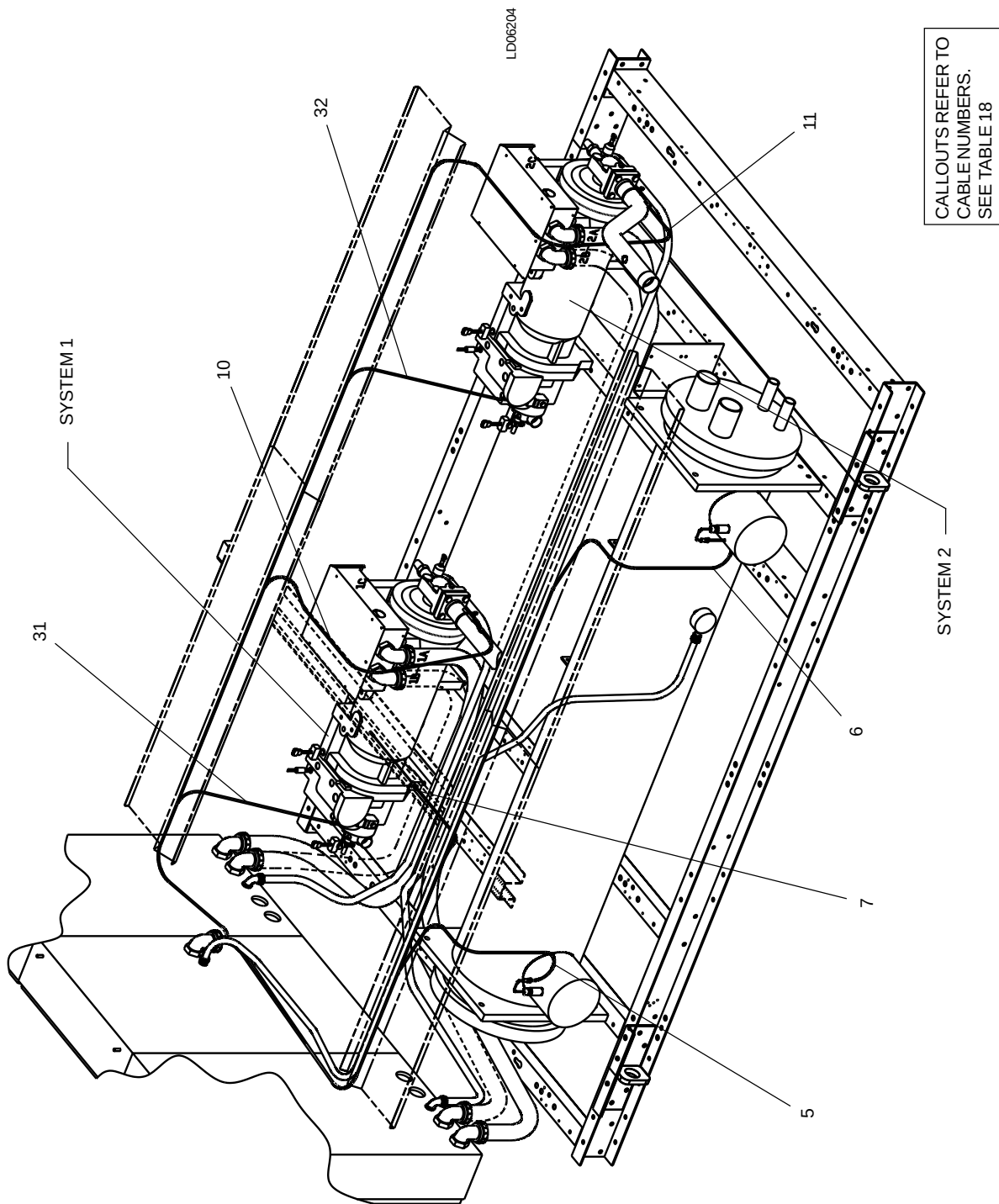


FIG. 20 – HARNESS LAYOUT (REF. TABLE 18, PAGE 35)

SENSOR HARNESS (CONT'D)
CHILLER MODELS YCAS0090 AND YCAS0100

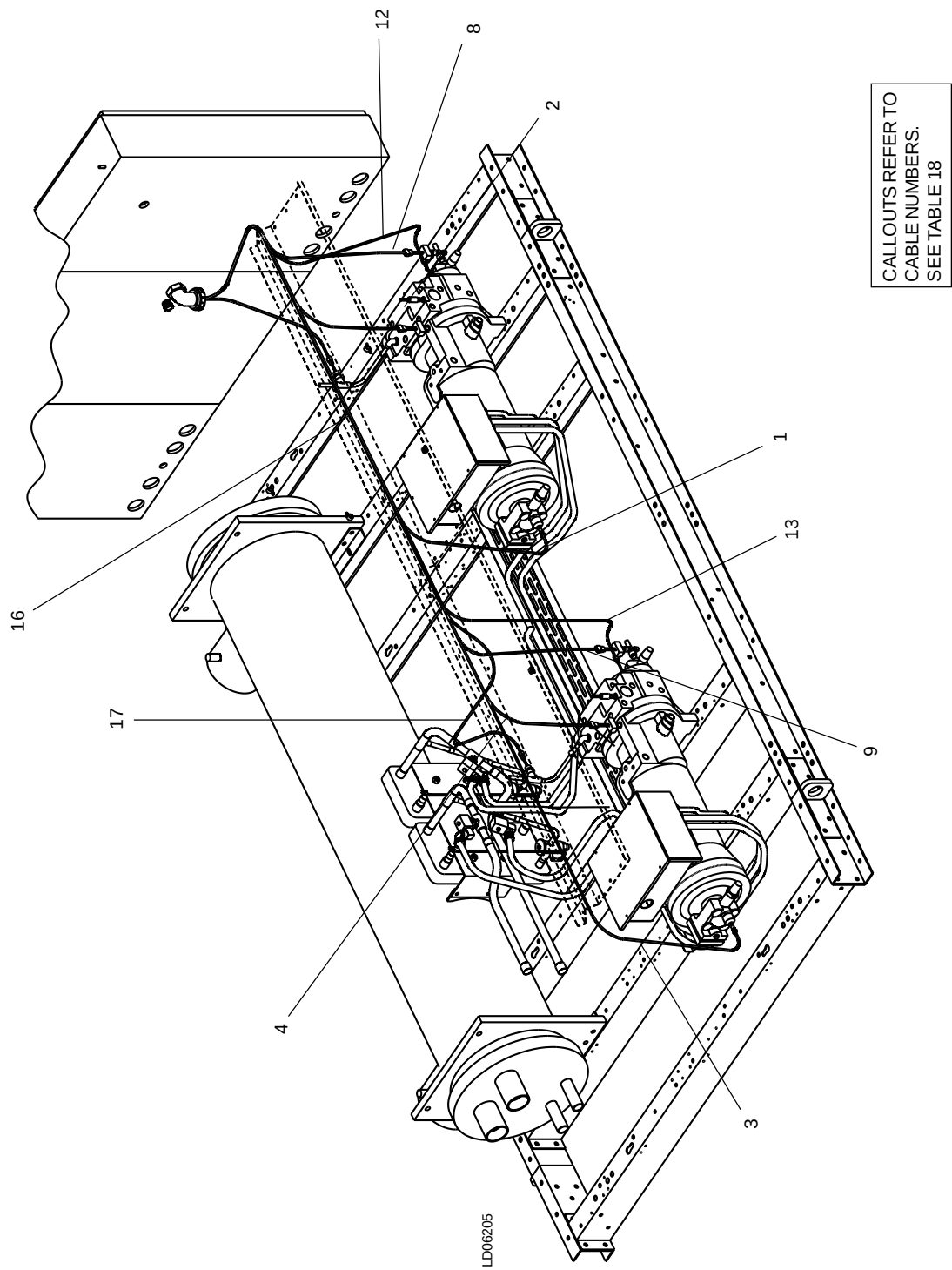


FIG. 21 – HARNESS LAYOUT (REF. TABLE 18, PAGE 35)

Micro Panel

SENSOR HARNESS (CONT'D)

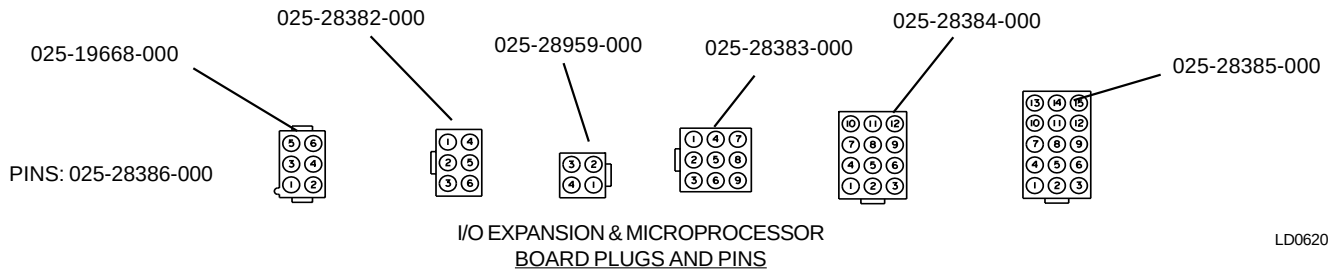
CHILLER MODELS YCAS0110 AND YCAS0120

TABLE 19 – SENSOR HARNESS WIRING (SEE FIGS. 22, 23 AND 24, PAGES 38, 39 AND 40)

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		
		DRAIN	2		
	2	RED	5	SYS #1 OIL PRESSURE	375-33776-403
		BLK	3		
		WHT	8		
MICRO P14	3	DRAIN	9	SYS #2 SUCTION PRESSURE	375-33776-402
		RED	4		
		BLK	1		
		WHT	7		
	4	DRAIN	2	SYS #2 OIL PRESSURE	375-33776-404
		RED	5		
		BLK	3		
MICRO P11	5	WHT	8	LEAVING CHILLED WATER	375-33776-415
		BLK	5		
		DRAIN	2		
	6	RED	9	ENTERING CHILLED WATER	375-33776-416
		BLK	6		
		DRAIN	3		
MICRO P15	8	RED	5	SYS #1 DISCH. PRESSURE	375-33776-405
		BLK	3		
		WHT	8		
		DRAIN	9		
	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	DRAIN	1	SYS #2 SUCTION TEMP.	375-33776-412
		RED	2		
		BLK	4		
I/O P10	16	DRAIN	3	SYS #1 OIL TEMP.	375-33776-421
		RED	5		
		BLK	6		
	17	DRAIN	2	SYS #2 OIL TEMP.	375-33776-422
		RED	4		
		BLK	7		
I/O P8	12	DRAIN	1	SYS #1 DISCH. TEMP.	375-33776-413
		RED	5		
		BLK	6		
	13	DRAIN	3	SYS #2 DISCH. TEMP.	375-33776-414
		RED	2		
		BLK	4		
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		

Note:

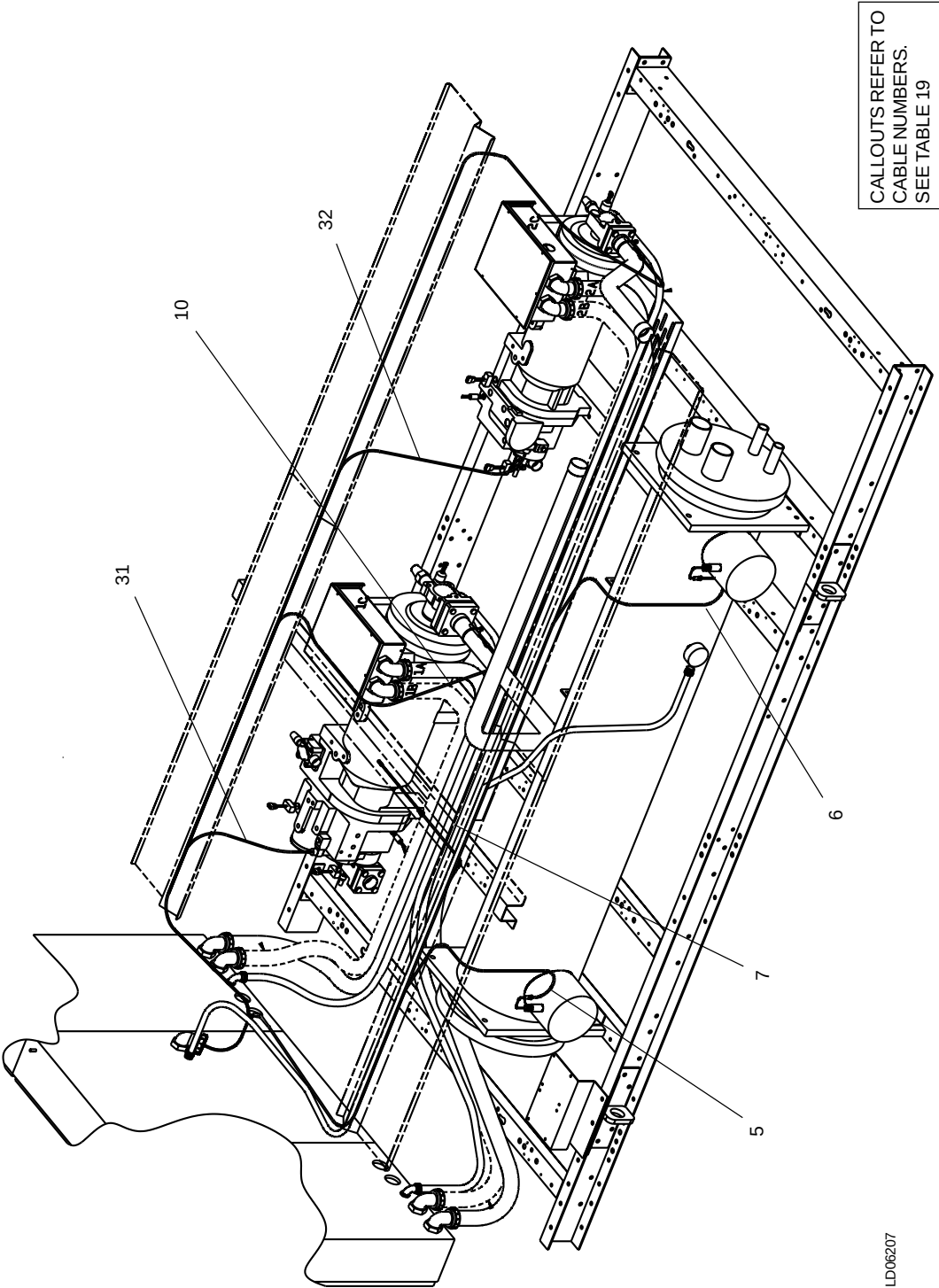
Harness comes with plug for sensor connection. Individual plug and sockets for Microboard and I/O board connections must be ordered separately when needed. (See below)



LD06206

FIG. 22 – SENSOR HARNESS PLUGS AND PINS

SENSOR HARNESS (CONT'D)
CHILLER MODELS YCAS0110 AND YCAS0120



LD06207

FIG. 23 – HARNESS LAYOUT (REF. TABLE 19, PAGE 38)

Micro Panel

SENSOR HARNESS (CONT'D) **CHILLER MODELS YCAS0110 AND YCAS0120**

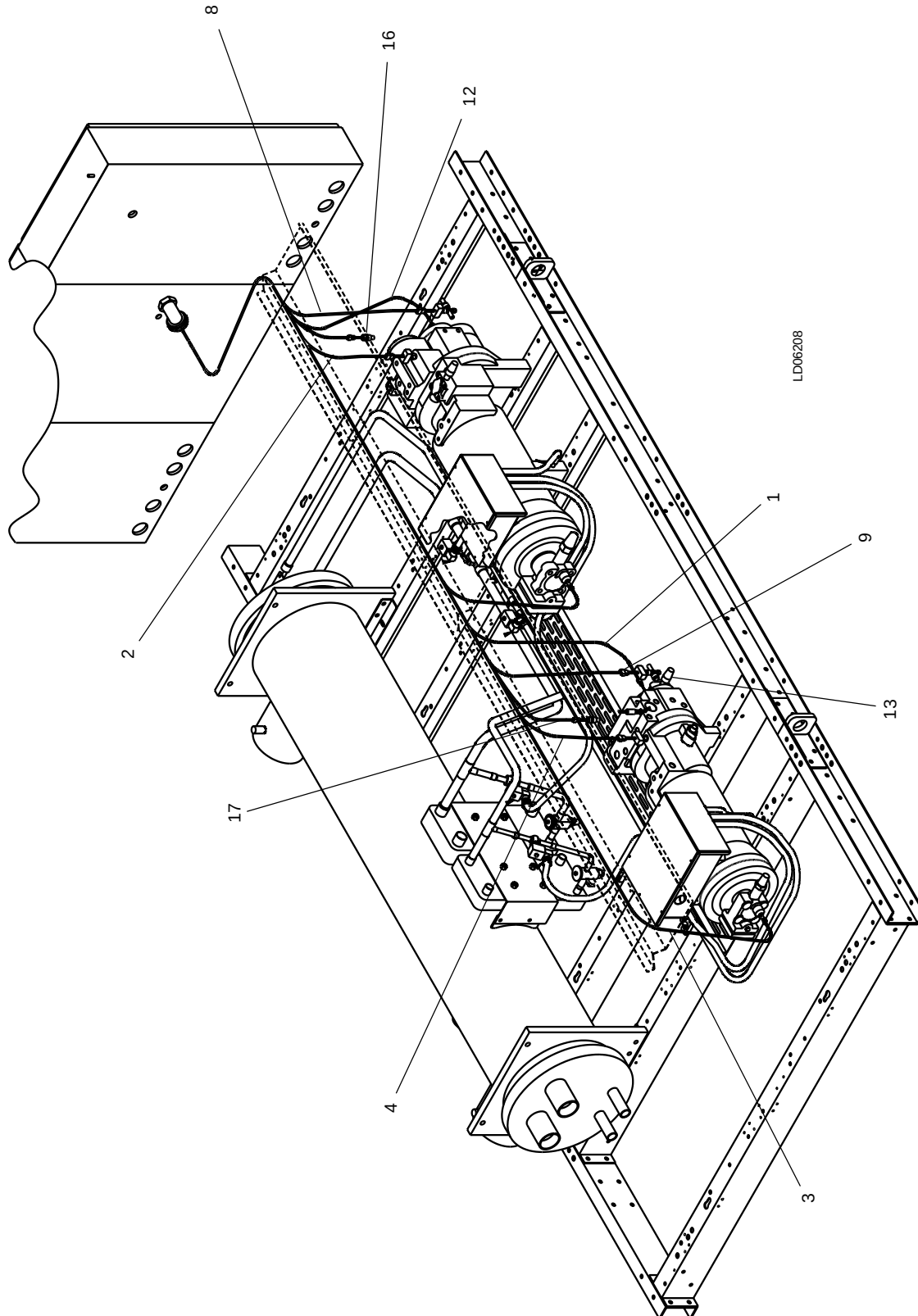


FIG. 24 – HARNESS LAYOUT (REF. TABLE 19, PAGE 38)

SENSOR HARNESS - REMOTE COOLER

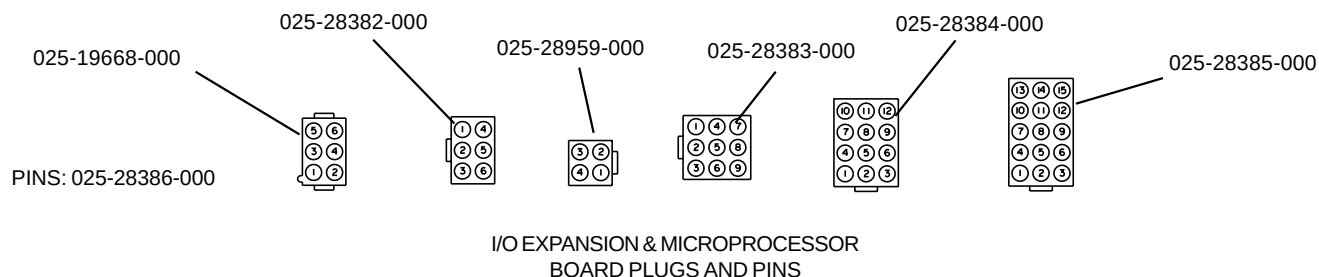
CHILLER MODELS YCAS0090, YCAS0100, YCAS0110 AND YCAS0120

TABLE 20 – SENSOR WIRING (SEE FIGS. 25, 26 AND 27, PAGES 41, 42 AND 43)

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		
		DRAIN	2		
	2	RED	5	SYS #1 OIL PRESSURE	375-33776-403
		BLK	3		
		WHT	8		
		DRAIN	9		
MICRO P14	3	RED	4	SYS #2 SUCTION PRESSURE	375-33776-402
		BLK	1		
		WHT	7		
		DRAIN	2		
	4	RED	5	SYS #2 OIL PRESSURE	375-33776-404
		BLK	3		
		WHT	8		
		DRAIN	9		
MICRO P11	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		
		DRAIN	9		
	9	RED	4	SYS #2 DISCH. PRESSURE	375-33776-406
		BLK	1		
		WHT	7		
		DRAIN	2		
I/O P10	16	RED	4	SYS #1 OIL TEMP.	375-33776-411
		BLK	7		
		DRAIN	3		
	17	RED	5	SYS #2 OIL TEMP.	375-33776-412
		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 #2 SLIDE VALVE	375-33776-424
		BLK (50)	2		
		DRAIN	6		

Note:

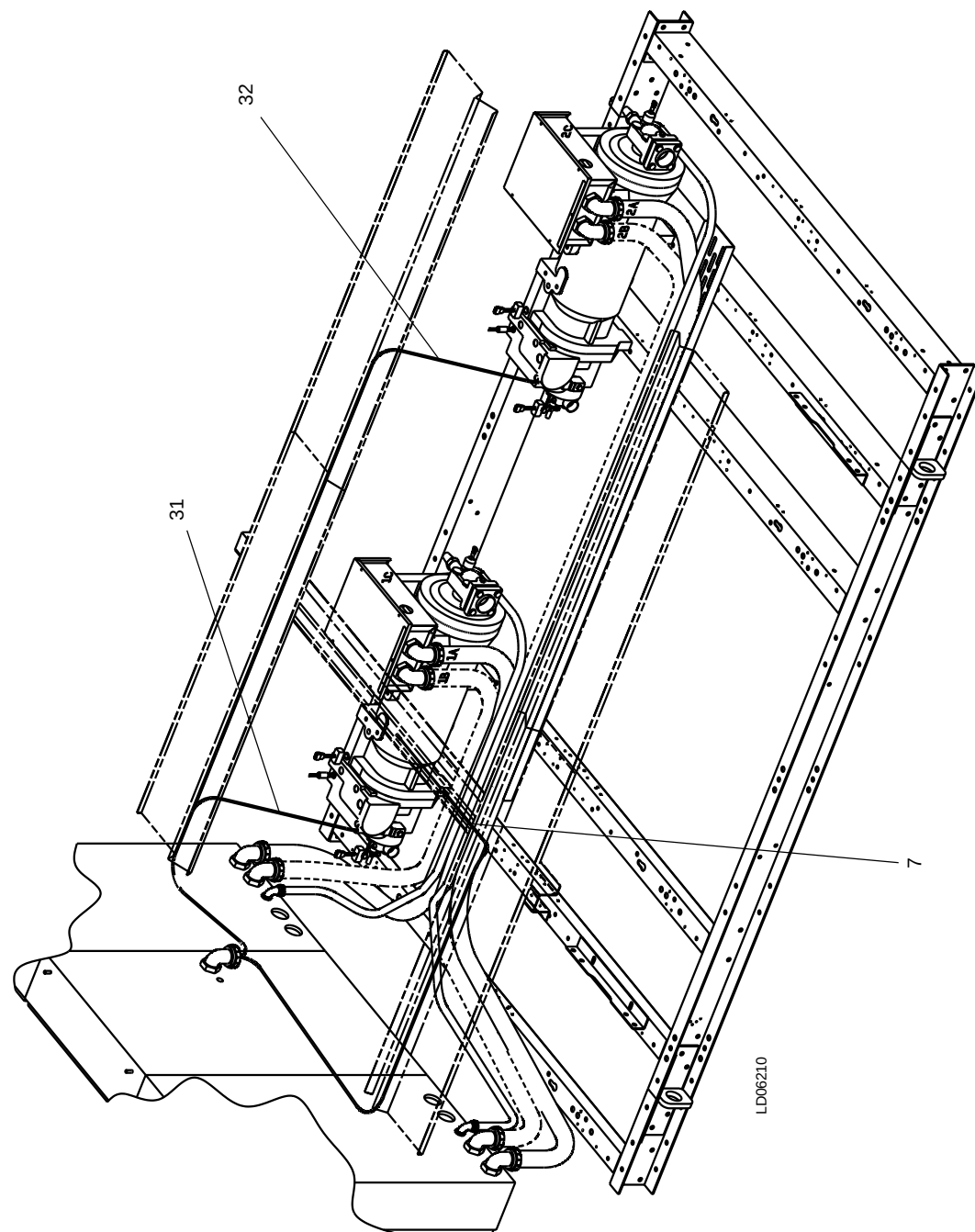
Harness comes with plug for sensor connection. Individual plug and sockets for Microboard and I/O board connections must be ordered separately when needed. (See below)



LD06209

FIG. 25 – SENSOR HARNESS PLUGS AND PINS

SENSOR HARNESS - REMOTE COOLER (CONT'D)
CHILLER MODELS YCAS0090, YCAS0100, YCAS0110 AND YCAS0120



CALLOUTS REFER TO
CABLE NUMBERS.
SEE TABLE 20

FIG. 26 – HARNESS LAYOUT (REF. TABLE 20, PAGE 41)

Micro Panel

SENSOR HARNESS - REMOTE COOLER (CONT'D)
CHILLER MODELS YCAS0090, YCAS0100, YCAS0110 AND YCAS0120

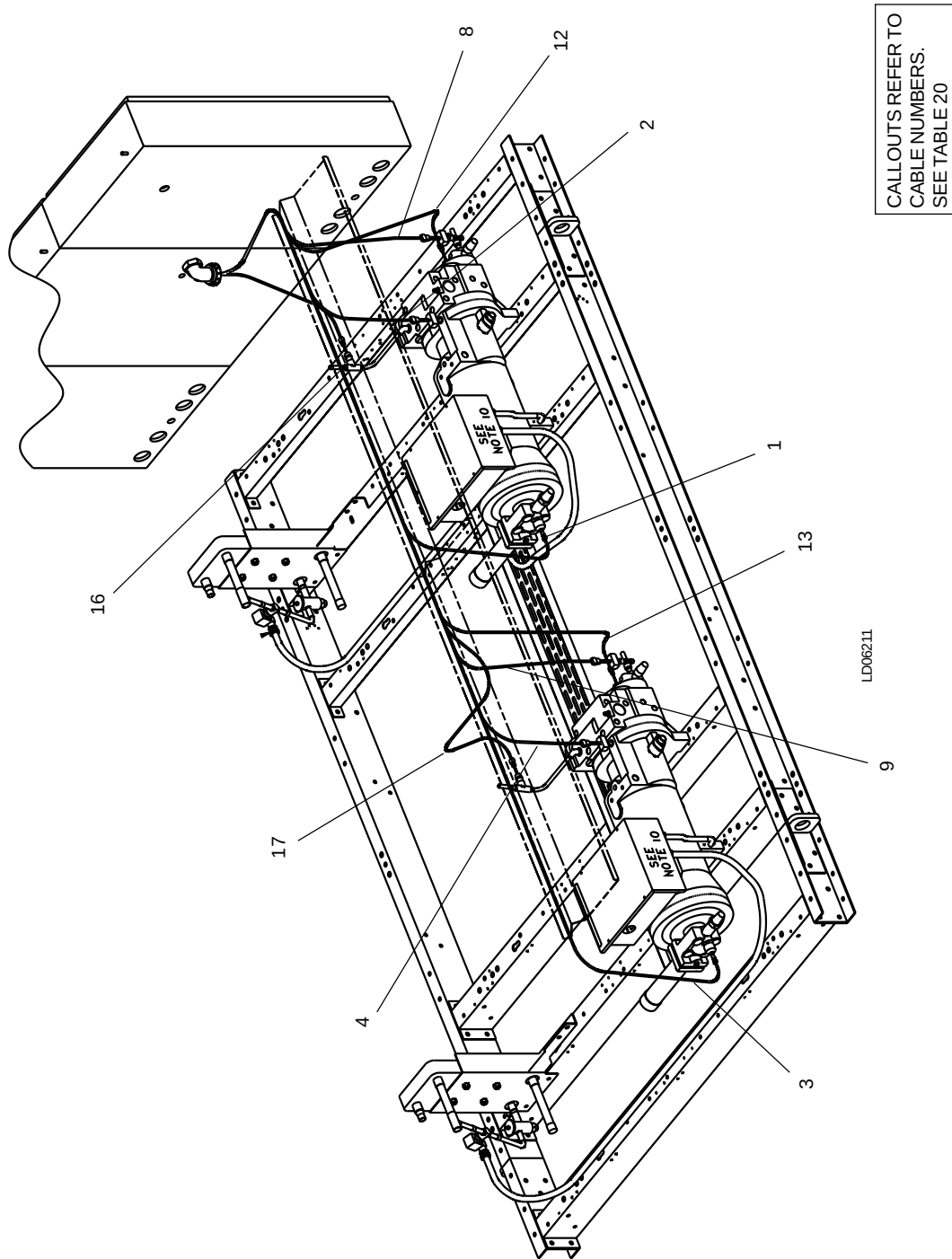


FIG. 27 – HARNESS LAYOUT (REF. TABLE 20, PAGE 41)

Micro Panel

TRANSDUCERS AND TEMPERATURE SENSORS

TABLE 21 – TRANSDUCERS AND TEMPERATURE SENSORS (SEE FIG. 28, PAGE 45)

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)

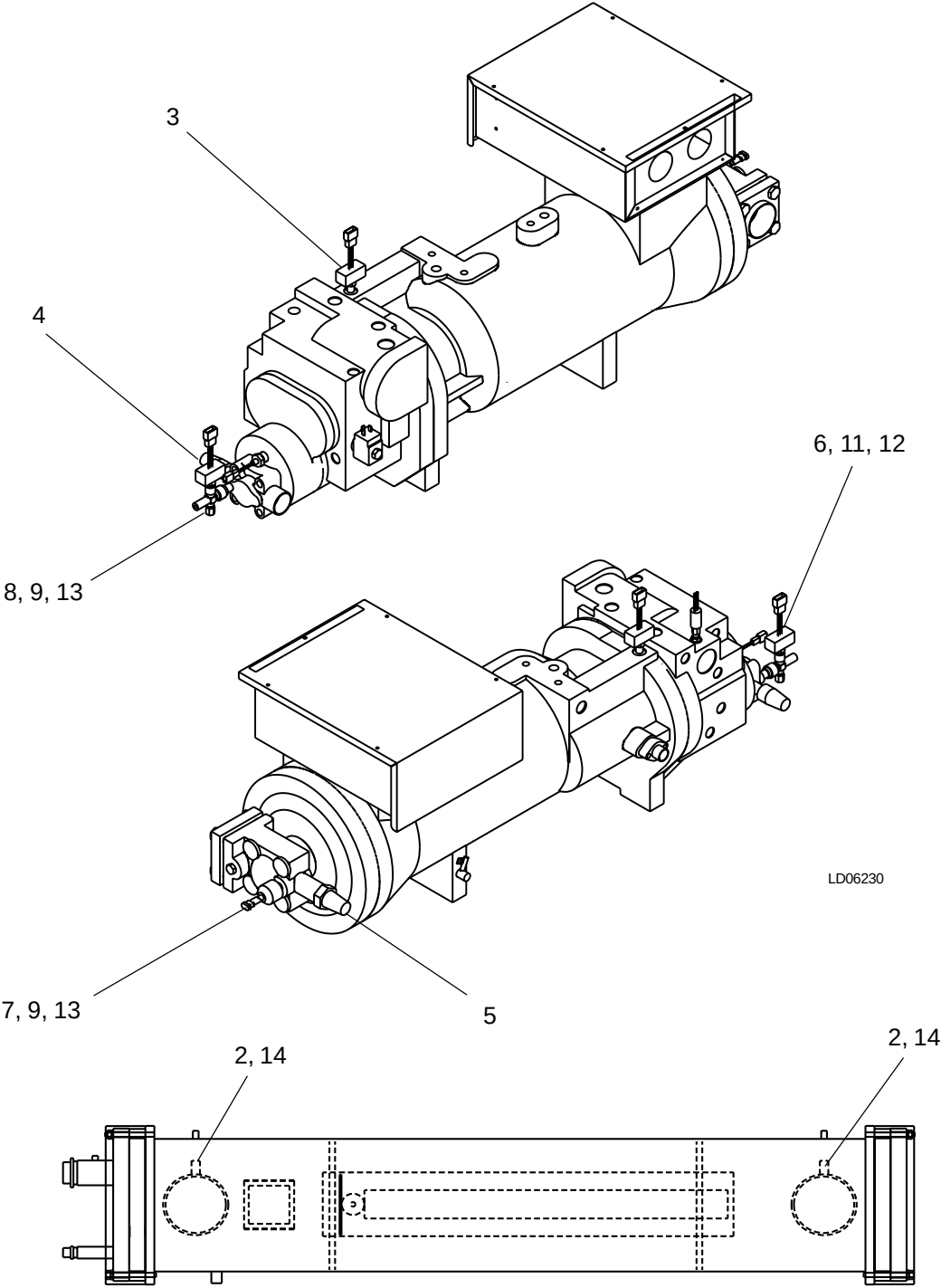


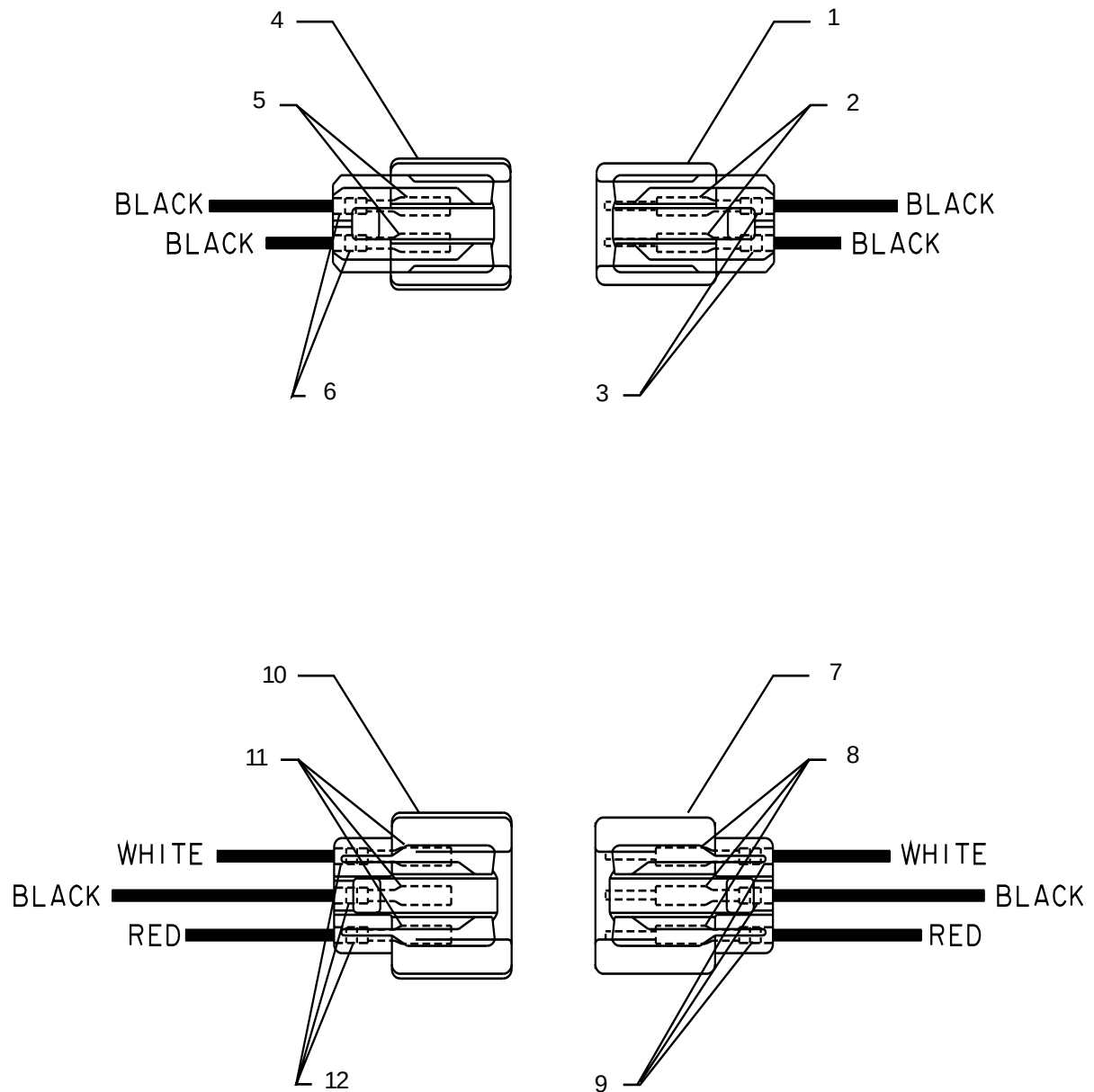
FIG. 28 – TRANSDUCERS AND TEMPERATURE SENSORS (REF. TABLE 21, PAGE 44)

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

TABLE 22 – TRANSDUCER, TEMPERATURE SENSOR AND WIRE HARNESS
CONNECTOR - FIELD REPLACEMENT PART NUMBERS - (SEE FIG. 29, PAGE 47)

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. 29 – TRANSDUCER, SENSOR AND WIRE HARNESS CONNECTORS - FIELD REPLACEMENT
(REF. TABLE 22, PAGE 46)

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:

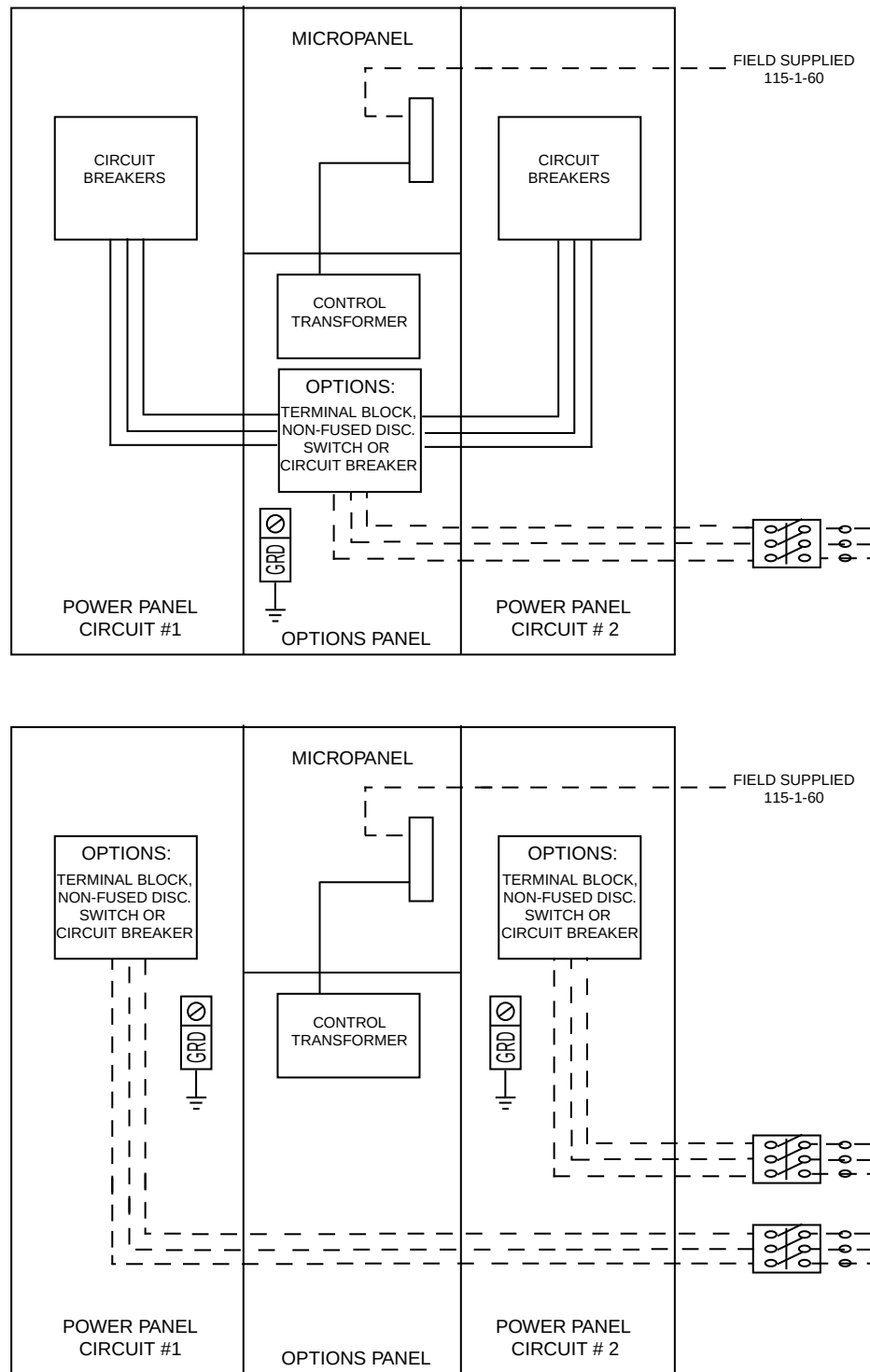


FIG. 30 – EXAMPLES OF POWER WIRING CONFIGURATIONS (2-COMPRESSOR UNITS)

POWER PANEL COMPONENTS ACROSS-THE-LINE

TABLE 23– POWER PANEL COMPONENTS (SEE FIG. 31, PAGE 52)

ITEM NO.	VOLTAGE	DESCRIPTION	TYPE	SYSTEM 1	SYSTEM 2
1A, 1B	YCAS0090 - 17	Contactor		024-31643-000	024-31643-000
	- 28			024-31638-000	024-31638-000
	- 40			024-26577-000	024-26577-000
	- 46			024-31603-000	024-31603-000
	- 58			024-31640-000	024-31640-000
1A, 1B	YCAS0100 - 17	Contactor		024-31643-000	024-31643-000
	- 28			024-31638-000	024-31638-000
	- 40			024-26577-000	024-26577-000
	- 46			024-31639-000	024-31639-000
	- 58			024-31603-000	024-31603-000
1A, 1B	YCAS0110 - 17	Contactor		024-31643-000	024-31644-000
	- 28			024-31638-000	024-31643-000
	- 40			024-31639-000	024-26577-000
	- 46			024-31603-000	024-26577-000
	- 58			024-31640-000	024-31639-000
1A, 1B	YCAS0120 - 17	Contactor		024-31643-000	024-31644-000
	- 28			024-31638-000	024-31643-000
	- 40			024-31639-000	024-31642-000
	- 46			024-31603-000	024-26577-000
	- 58			024-31640-000	024-31639-000
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 48 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

^s Recommended Spare Part

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

TABLE 23 (CONT'D) – POWER PANEL COMPONENTS (SEE FIG. 31, PAGE 52)

ITEM NO.	VOLTAGE	DESCRIPTION	TYPE	SYSTEM 1	SYSTEM 2
7	See page 48 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 48 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 48 for configuration	Aux. Circuit Breaker	K5AS	024-31646-000	024-31646-000
			K7AS	024-31648-000	024-31648-000

TABLE 24 – POWER PANEL COMPONENTS - LUG KITS – (SEE FIG. 31, PAGE 52)

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

ACROSS-THE-LINE POWER PANEL

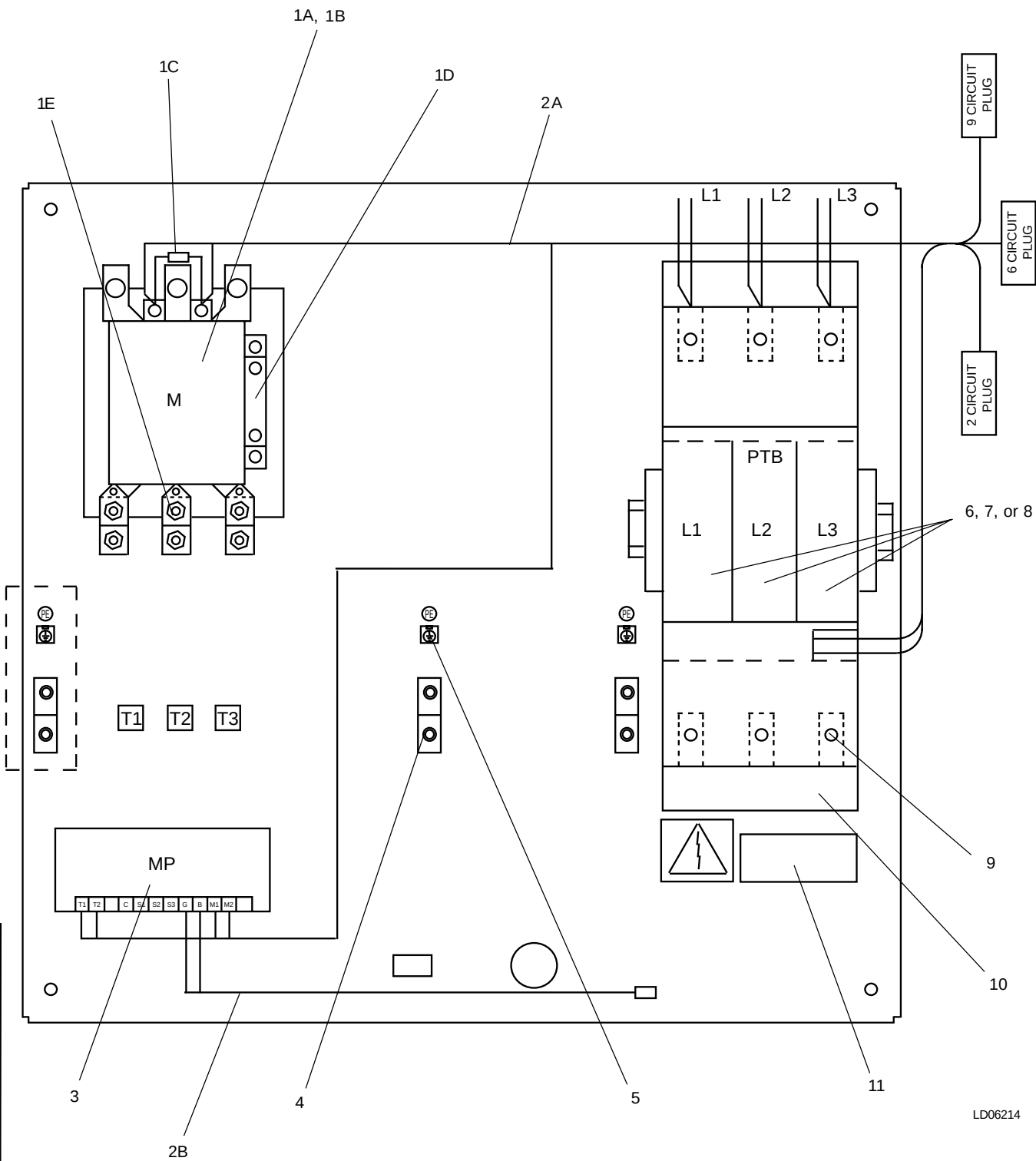


FIG. 31 – ACROSS-THE-LINE POWER PANEL LAYOUT (REF. TABLES 23 AND 24, PAGES 50 AND 51)

POWER PANEL COMPONENTS WYE-DELTA

TABLE 23A – POWER PANEL COMPONENTS (REF. FIG. 32, PAGE 55)

ITEM NO.	MODEL / VOLTAGE	DESCRIPTION	TYPES	SYSTEM 1	SYSTEM 2
1A, 1B	YCAS0090 - 17	Contactor		024-26577-000	024-26577-000
	- 28			024-31602-000	024-31602-000
	- 40			024-31639-000	024-31639-000
	- 46			024-31636-000	024-31636-000
	- 58			024-31640-000	024-31640-000
				024-31636-000	024-31636-000
				024-31602-000	024-31602-000
1A, 1B	YCAS0100 - 17	Contactor		024-26577-000	024-26577-000
	- 28			024-26577-000	024-26577-000
	- 40			024-31636-000	024-31636-000
	- 46			024-31640-000	024-31640-000
	- 58			024-31636-000	024-31636-000
				024-31602-000	024-31602-000
				024-31636-000	024-31636-000
1A, 1B	YCAS0110 - 17	Contactor		024-26577-000	024-26577-000
	- 28			-	025-31642-000
	- 40			024-31602-000	024-26577-000
	- 46			024-31639-000	-
	- 58			024-31636-000	024-31636-000
				024-31602-000	024-31603-000
				024-31636-000	024-31636-000
1A, 1B	YCAS0120 - 17	Contactor		024-26577-000	024-26577-000
	- 28			-	024-31642-000
	- 40			024-31602-000	024-26577-000
	- 46			024-31639-000	-
	- 58			024-31636-000	024-31636-000
				024-31602-000	024-31603-000
				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, 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

POWER PANEL COMPONENTS (CONT'D) WYE-DELTA

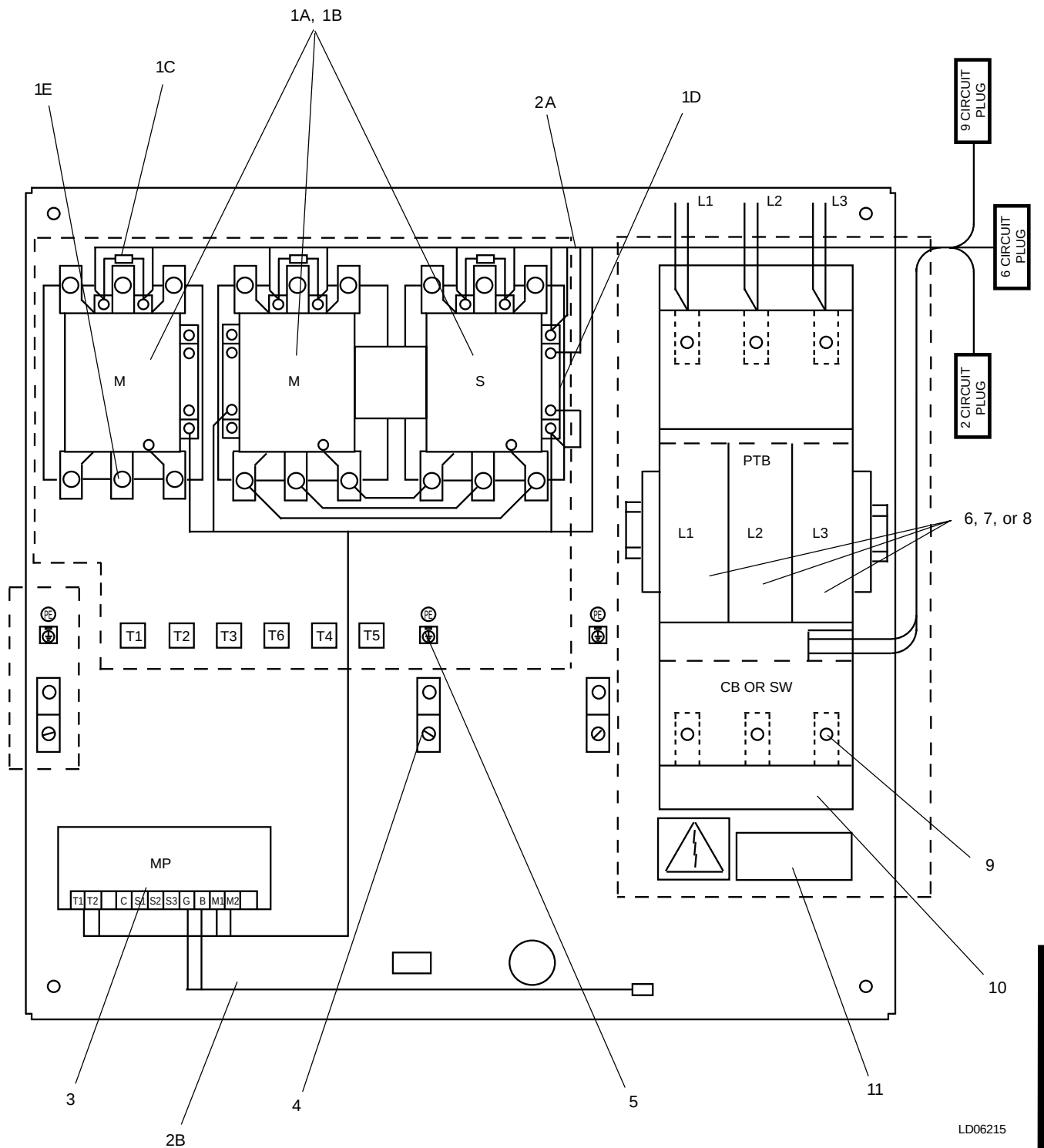
TABLE 23A (CONT'D) – POWER PANEL COMPONENTS (SEE FIG. 32, PAGE 55)

ITEM NO.	VOLTAGE	DESCRIPTION	TYPE	SYSTEM 1	SYSTEM 2
4		Ground Lug		025-34455-000	025-34455-000
5		Ground Lug		025-34085-000	025-34085-000
6		Terminal Block	UKH50 UKH95 UKH150 UKH240	025-34482-000 025-34454-000 025-34408-000 025-34405-000	025-34482-000 025-34454-000 025-34408-000 025-34405-000
7	See page 48 for configuration	Circuit Breaker	S3H125TW S3H150TW S3H225TW S4H250BW S5H400BW	024-31844-000 024-31649-000 024-31819-000 025-34419-000 024-34424-000	024-31844-000 024-31649-000 024-31819-000 025-34419-000 025-34424-000
8	See page 48 for configuration	NF Disc Switch	S3H150DW S4H250DW S5H400DW	024-25575-000 024-25565-000 024-25564-000	024-25575-000 024-25565-000 024-25564-000
10		Handle Kit		025-34417-000	025-34417-000
11	See page 48 for configuration	Aux. Circuit Breaker	K5AS K7AS	024-31646-000 024-31648-000	024-31646-000 024-31648-000

TABLE 24A – POWER PANEL COMPONENTS - LUG KITS – (SEE FIG. 32, PAGES 55)

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

FIG. 32 – WYE-DELTA POWER PANEL TYPICAL LAYOUT (REF. TABLES 23A AND 24A, PAGES 53 AND 54)

3 FAN CONTACTOR PANEL COMPONENTS

TABLE 25 – 3 FAN CONTACTOR PANEL COMPONENTS – YCAS F (SEE FIG. 33, PAGE 57)

ITEM NO.	VOLTAGE	DESCRIPTION	TYPE	ADJUSTMENT	PART NUMBER
2A		Surge Suppressor			031-00808-000
2B	YCAS0090 - 17	Contactor	A12		025-34445-000
	- 28		A12		025-34445-000
	- 40		A9		025-34448-000
	- 46		A9		025-34448-000
	- 58		A9		025-34448-000
2B	YCAS0100 - 17	Contactor	A12		025-34445-000
	- 28		A12		025-34445-000
	- 40		A9		025-34448-000
	- 46		A9		025-34448-000
	- 58		A9		025-34448-000
2B	YCAS0110 - 17	Contactor	A16		024-31830-000
	- 28		A12		025-34445-000
	- 40		A9		025-34448-000
	- 46		A9		025-34448-000
	- 58		A12		025-34445-000
2B	YCAS0120 - 17	Contactor	A16		024-31830-000
	- 28		A12		025-34445-000
	- 40		A9		025-34448-000
	- 46		A9		025-34448-000
	- 58		A12		025-34445-000
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		Contactor 600V			025-31635-000
5		End Clamp			025-34439-000
6		10AWG BLK 600V 1			025-11585-000
7		12-10AWG #8 Ring			025-34091-000
		Din Rail, Slotted			025-29167-000
8		Label, Caution			035-05548-000

3 FAN CONTACTOR PANEL COMPONENTS (CONT'D)

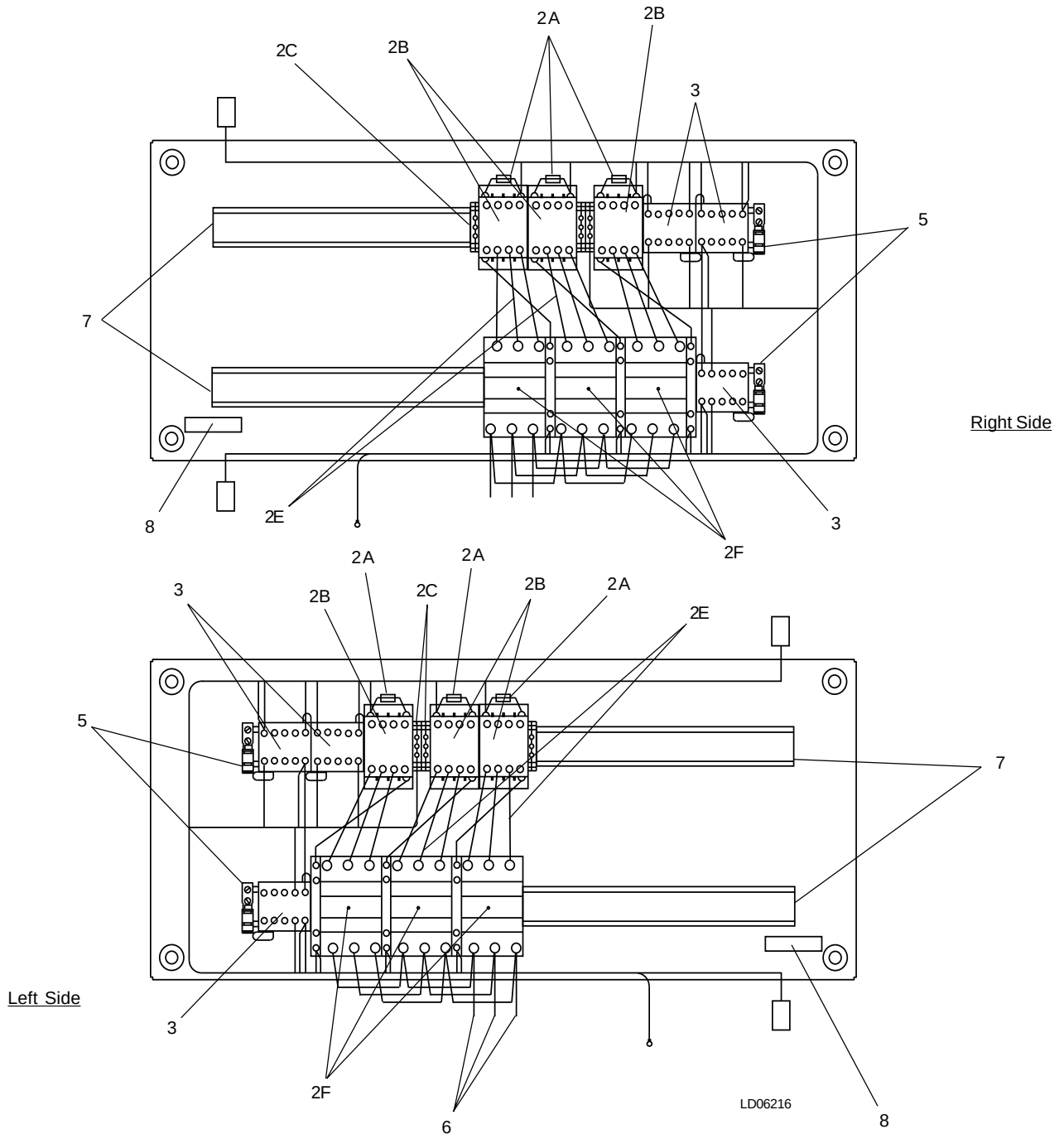


FIG. 33 – 3 FAN CONTACTOR PANEL COMPONENTS– YCAS F (REF. TABLE 25, PAGE 56)

OPTIONS PANEL COMPONENTS

TABLE 26 – OPTIONS PANEL COMPONENTS (SEE FIG. 34 AND 35, PAGES 59 AND 60)

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

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

OPTIONS PANEL COMPONENTS (CONT'D)

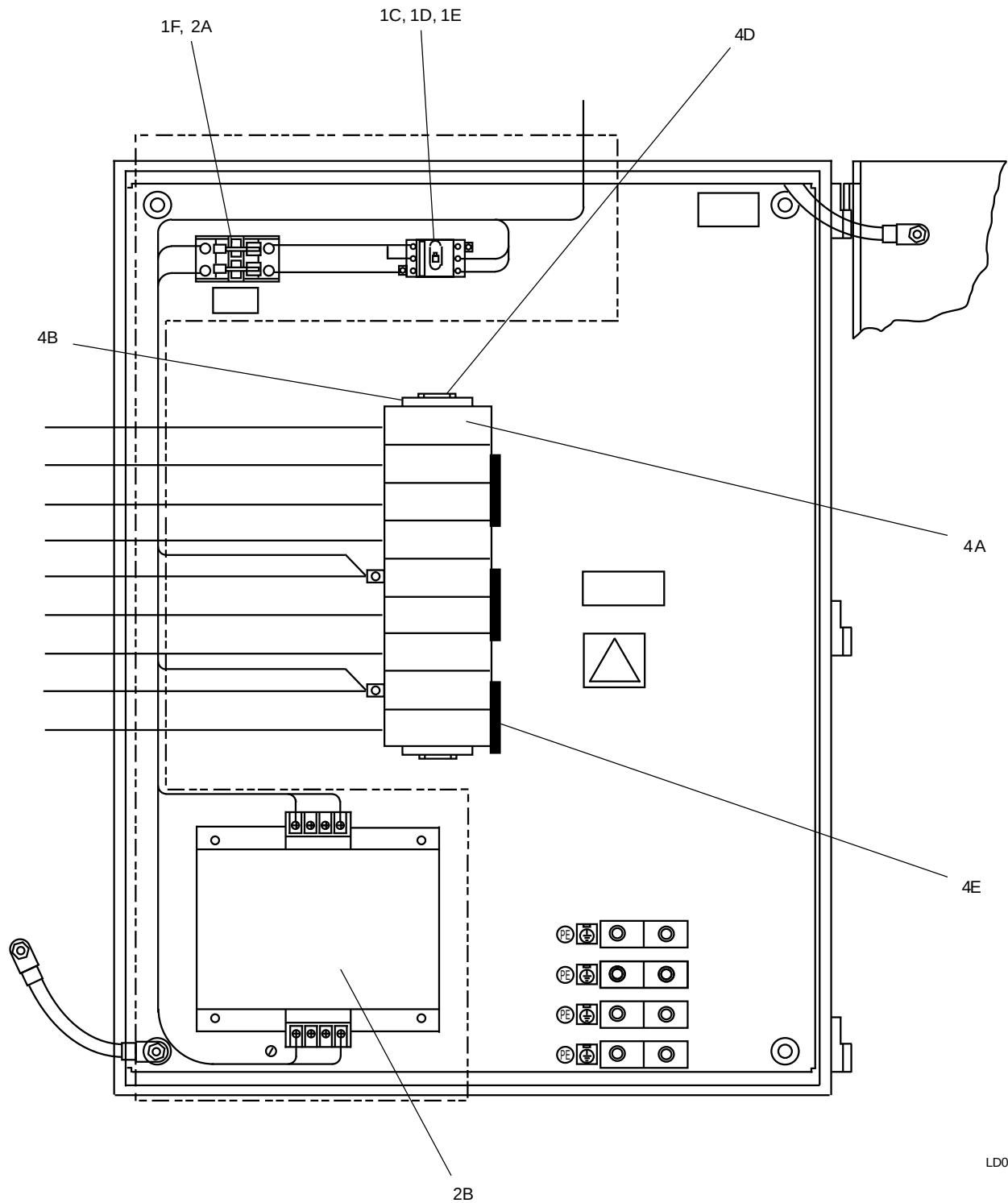
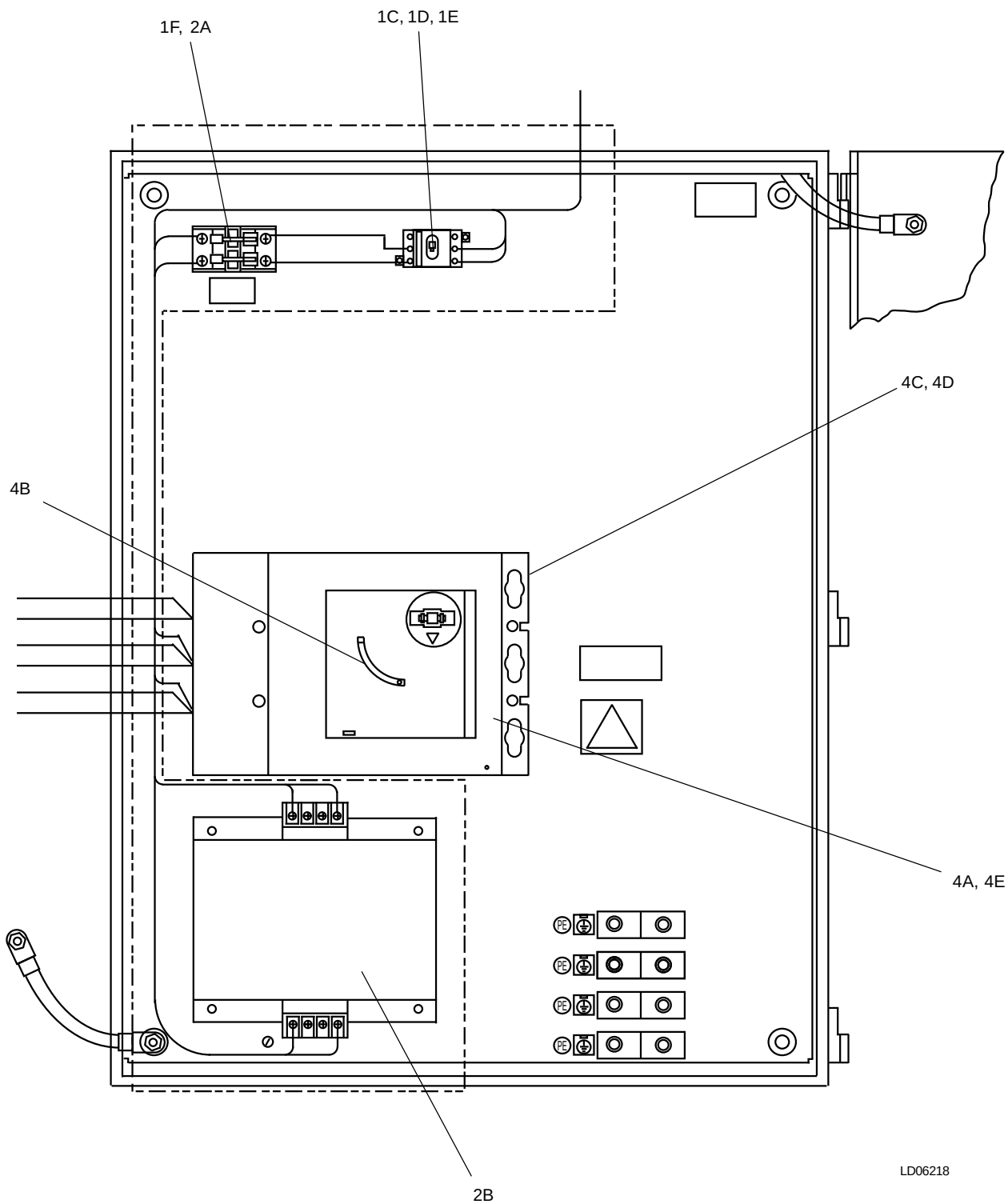


FIG. 34 – OPTIONS PANEL WITH POWER TERMINAL BLOCK OPTION (REF. TABLE 26, PAGE 58)

OPTIONS PANEL COMPONENTS (CONT'D)



LD06218

FIG. 35 – OPTIONS PANEL WITH CIRCUIT BREAKER OR NON-FUSED DISCONNECT SWITCH OPTION (REF. TABLE 26, PAGE 58)

YCAS CHILLER – OPTIONS KITS

TABLE 27 – FIELD INSTALLABLE OPTIONS KIT TABLE

MODEL NUMBER YCAS - F	VIBRATION ISOLATORS SPRING 1" DEFLEC* CU/AL	VIBRATION ISOLATORS SPRING 2" (SEISMIC) CU/AL	VIBRATION ISOLATOR PAD 1/2" DEFLEC CU/AL	VIBRATION ISOLATORS SPRING 1" DEFLEC* CU/CU	VIBRATION ISOLATORS SPRING 2" (SEISMIC) CU/CU	VIBRATION ISOLATOR PAD 1/2" DEFLEC CU/CU
MODEL NO.	029-22941	029-22941	029-22941	029-22941	029-22941	029-22941
0090	-101	-201	-001	-151	-251	-007
0100	-102	-201	-002	-151	-251	-007
0110	-103	-202	-003	-152	-252	-008
0120	-103	-202	-003	-152	-252	-008

* Note Tubing and Fin Coil Material

TABLE 27 (CONT'D) – FIELD INSTALLABLE OPTIONS KIT TABLE

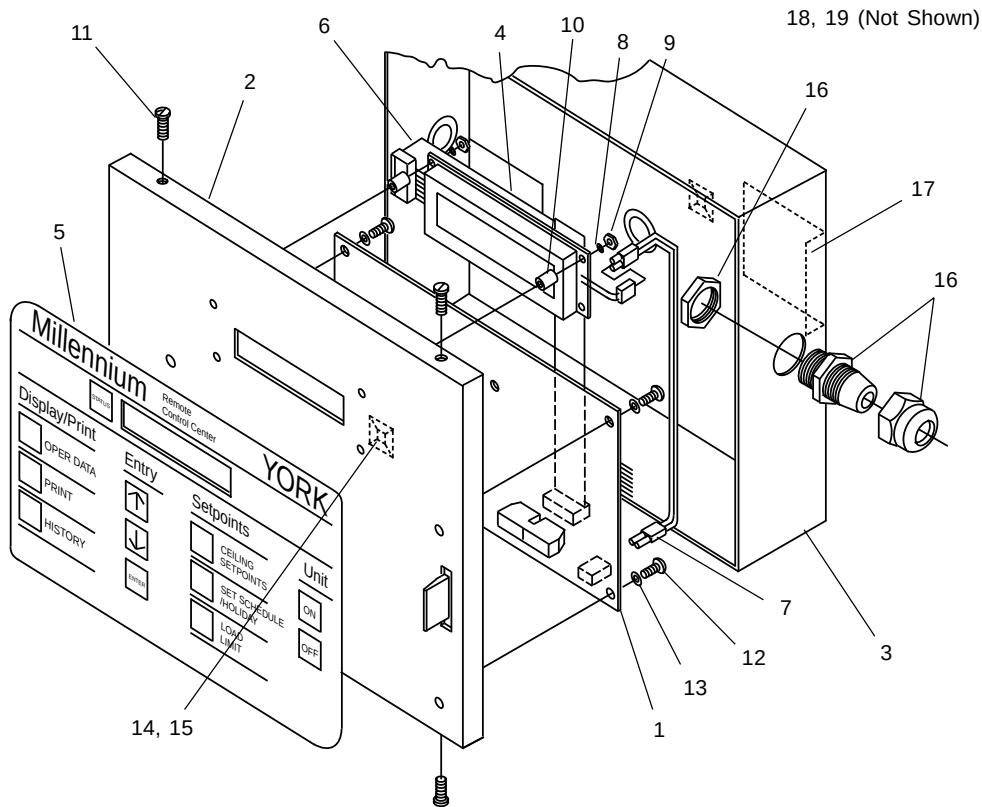
MODEL NUMBER YCAS - F	WIRE ENCLOSURE FULL UNIT	LOUVERED ENCLOSURE FULL UNIT	WIRE/ LOUVERED ENCLOSURE FULL UNIT	LOUVERED ENCLOSURE CONDENSER ONLY	BAS / EMS INTERFACE KIT	REMOTE CONTROL PANEL 60 HZ
MODEL NO.	375-29513	375-29514	375-29515	375-29516	371-02590	371-02485
0090	-105	-105	-105	-105	-102	-102
0100	-105	-105	-105	-105	-102	-102
0110	-120	-120	-120	-120	-102	-102
0120	-120	-120	-120	-120	-102	-102

TABLE 28 – REMOTE EVAPORATOR - FIELD INSTALLABLE OPTIONS KIT TABLE

MODEL NUMBER YCAS - F	VIBRATION ISOLATORS SPRING 1" DEFLEC* CU/AL	VIBRATION ISOLATORS SPRING 2" (SEISMIC) CU/AL	VIBRATION ISOLATOR PAD 1/2" DEFLEC CU/AL	VIBRATION ISOLATORS SPRING 1" DEFLEC* CU/CU	VIBRATION ISOLATORS SPRING 2" (SEISMIC) CU/CU	VIBRATION ISOLATOR PAD 1/2" DEFLEC CU/CU
MODEL NO.	029-22967	029-	029-22967	029-	029-22967	029-22967
0090	-101	22067-201	-005	22967-151	-251	-001
0100	-101	22067-201	-005	22967-151	-251	-001
0110	-102	22967-202	-006	22941-152	-252	-002
0120	-102	22967-202	-006	22941-152	-252	-002

* Note Tubing and Fin Coil Material

REMOTE CONTROL CENTER



LD06219

FIG. 36 – REMOTE CONTROL CENTER PARTS (REF. TABLE 29)

TABLE 29 – REMOTE CONTROL CENTER PARTS (SEE FIG. 36)

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
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

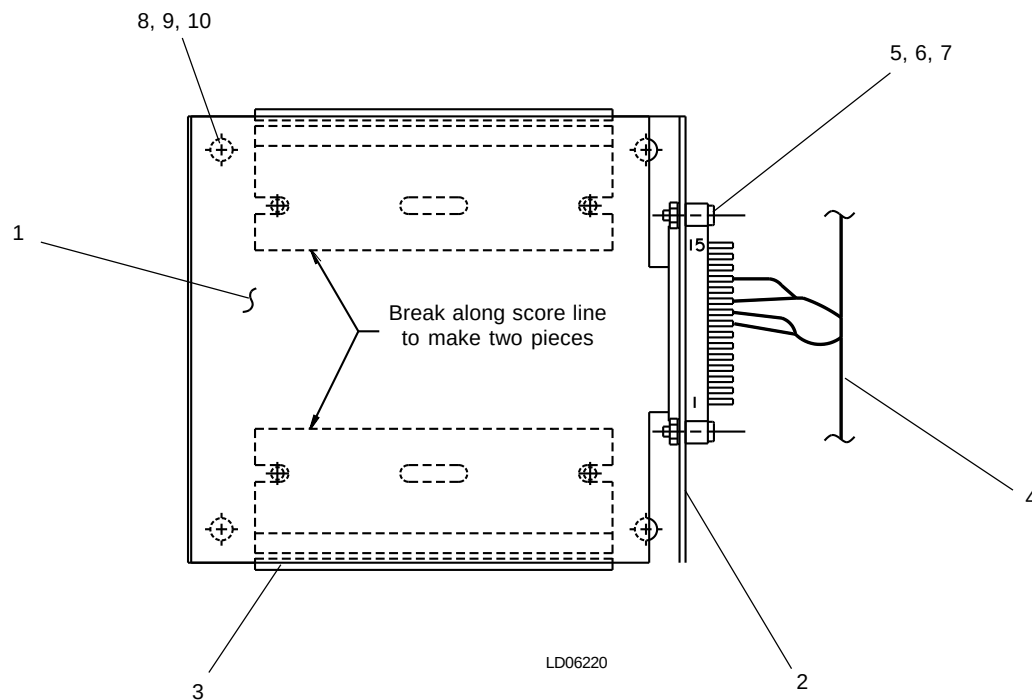


FIG. 37 – REMOTE CURRENT/TEMPERATURE RESET KIT (REF. TABLE 30)

TABLE 30 – REMOTE CURRENT/TEMPERATURE RESET KIT (SEE FIG. 37)

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 31 – 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 025-21137-000 prior to Spring 1999.

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

TABLE 32 – 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-
0090	105	105	105	105
0100	105	105	105	105
0110	120	120	120	012
0120	120	120	120	012

* Full units include top and bottom sections listed in Tables 34 - 37. Top or bottom sections may be ordered separately if desired.

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

TABLE 33 – ENCLOSURE KIT OPTIONS – TOP AND BOTTOM KITS AVAILABLE SEPARATELY

FULL UNIT KIT OPTION NUMBER INCLUDES THE FOLLOWING TOP AND BOTTOM SECTION KITS			
TYPE	FULL UNIT KIT NO.	TOP KIT NO.	BOTTOM KIT NO.
WIRE	375-29513-105	375-29569-100 (FIG. 38)	375-29569-101 (FIG. 39)
WIRE	375-29513-120	375-29569-120 (FIG. 38)	375-29081-121 (FIG. 39)
LOUVER	375-29514-105	375-29571-100 (FIG. 40)	375-29571-101 (FIG. 41)
LOUVER	375-29514-120	375-29571-120 (FIG. 40)	375-29080-121 (FIG. 41)
W/L	375-29515-105	375-29571-100	375-29569-101
W/L	375-29515-120	375-29571-120	375-29081-121
LOUVER	375-29516-105	375-29571-100	N/A
LOUVER	375-29516-012	375-29571-120	N/A

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

WIRE ENCLOSURE TOP SECTION SPARE PARTS BREAKDOWN

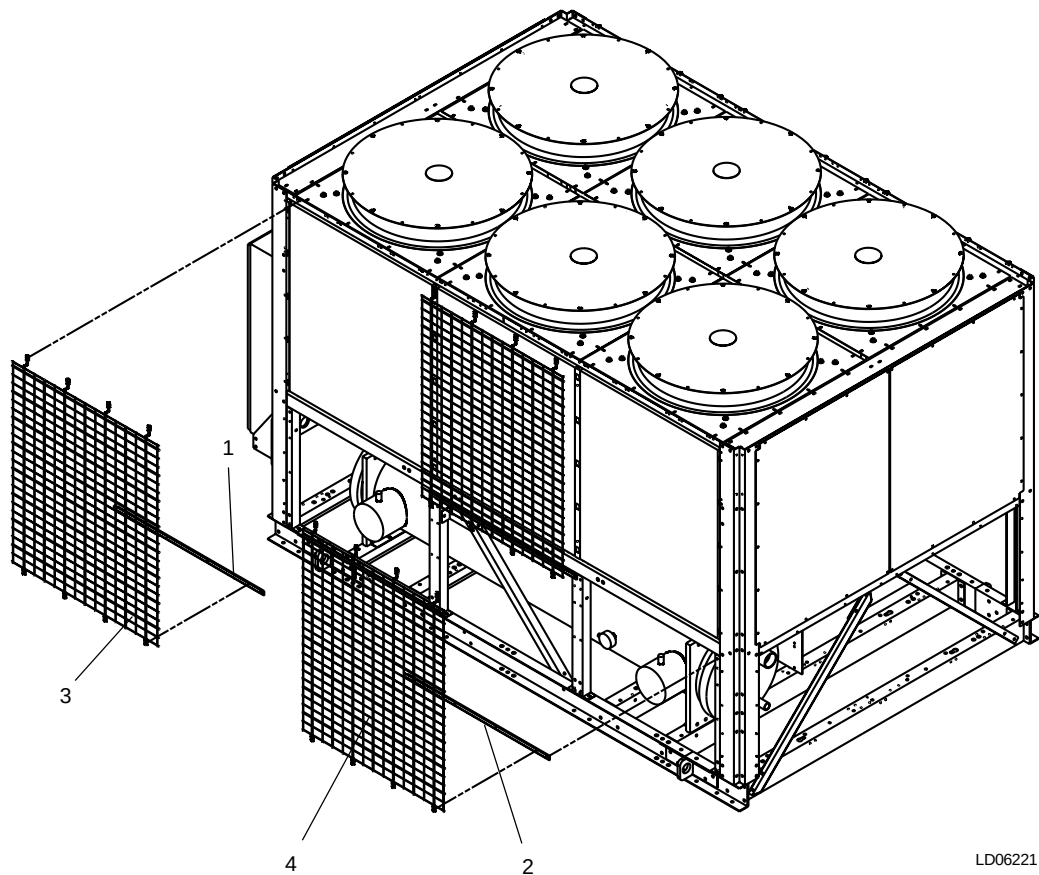


FIG. 38 – TOP SECTION - WIRE ENCLOSURE - KIT NO. 375-29569-100 IS SHOWN.

TABLE 34 – TOP SECTION - WIRE ENCLOSURE

TOP KIT COMPONENTS 375-29569-100 AND 375-29569-120				
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

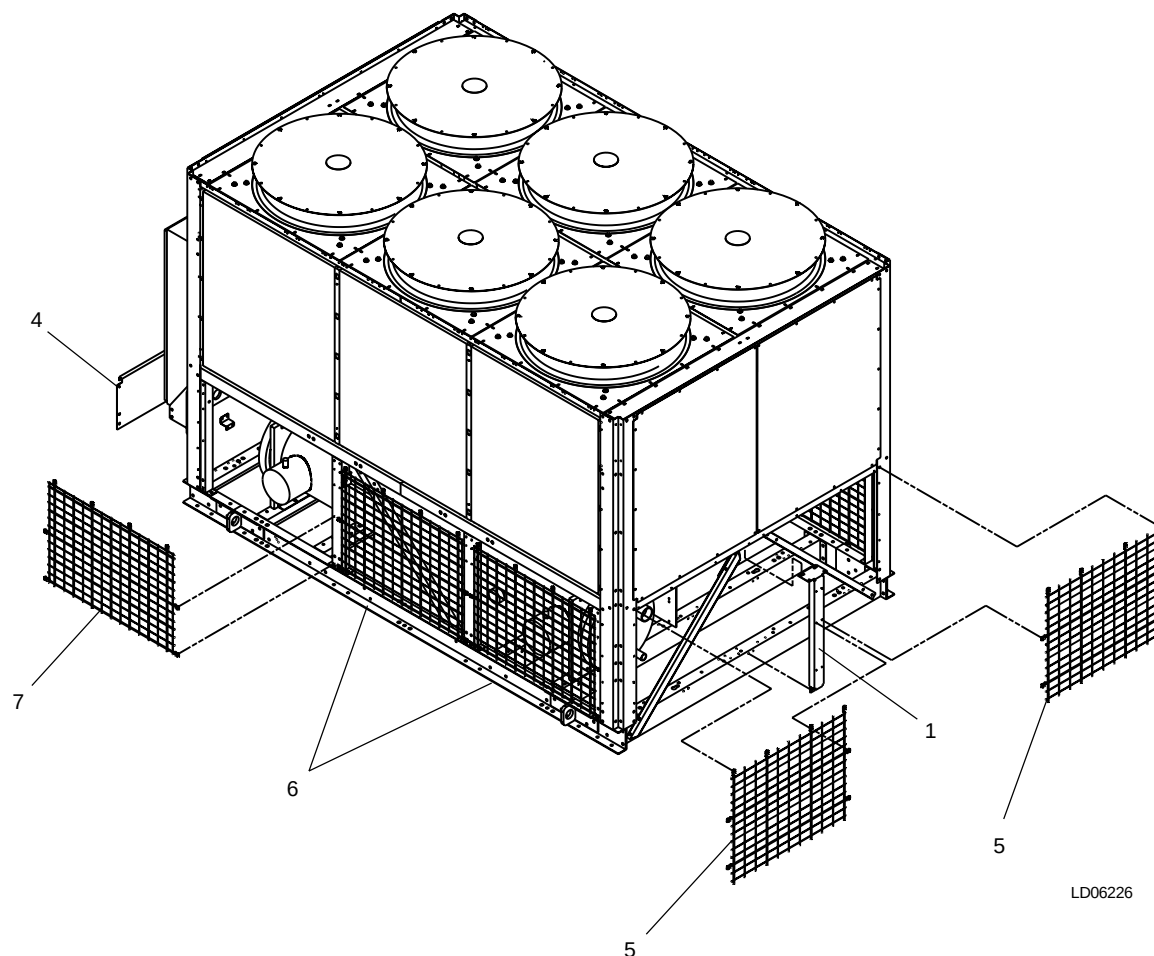
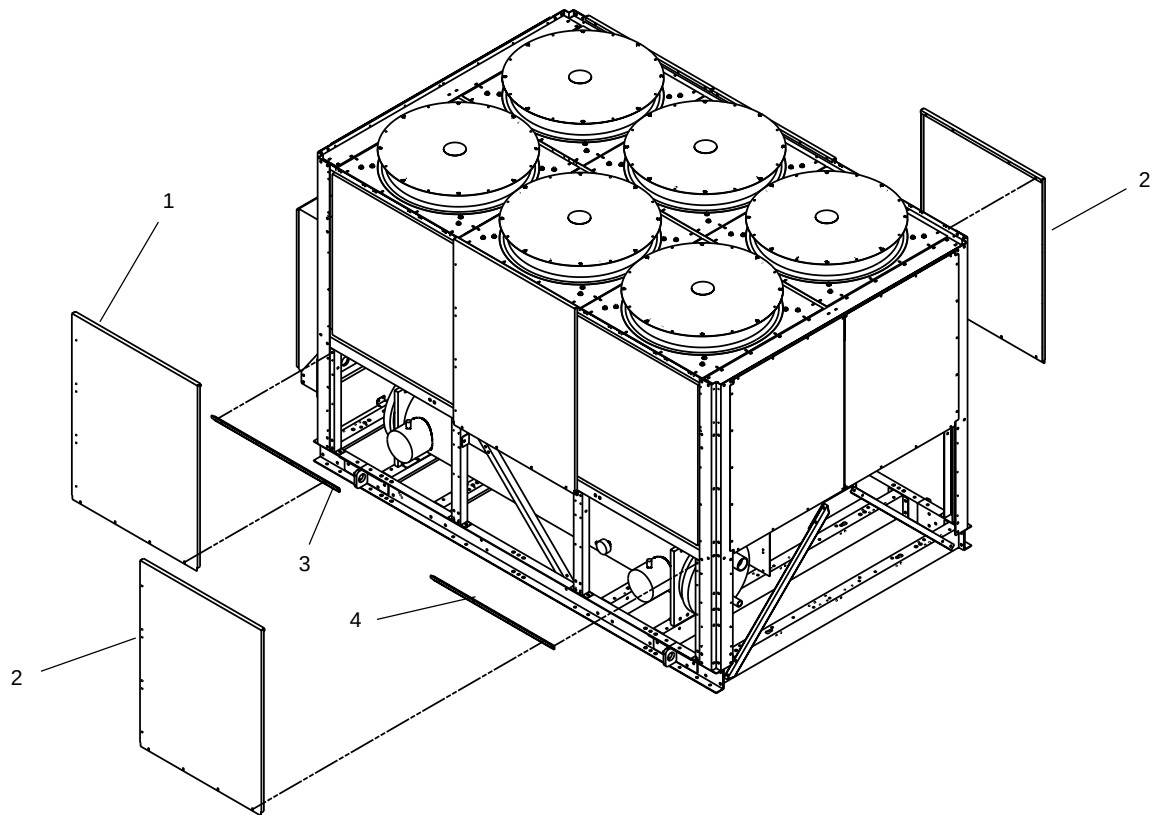


FIG. 39 – BOTTOM SECTION - WIRE ENCLOSURE - KIT NO. 375-29569-101 IS SHOWN.

TABLE 35 – BOTTOM SECTION - WIRE ENCLOSURE

BOTTOM KIT COMPONENTS 375-29569-101 AND 375-29081-121				
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



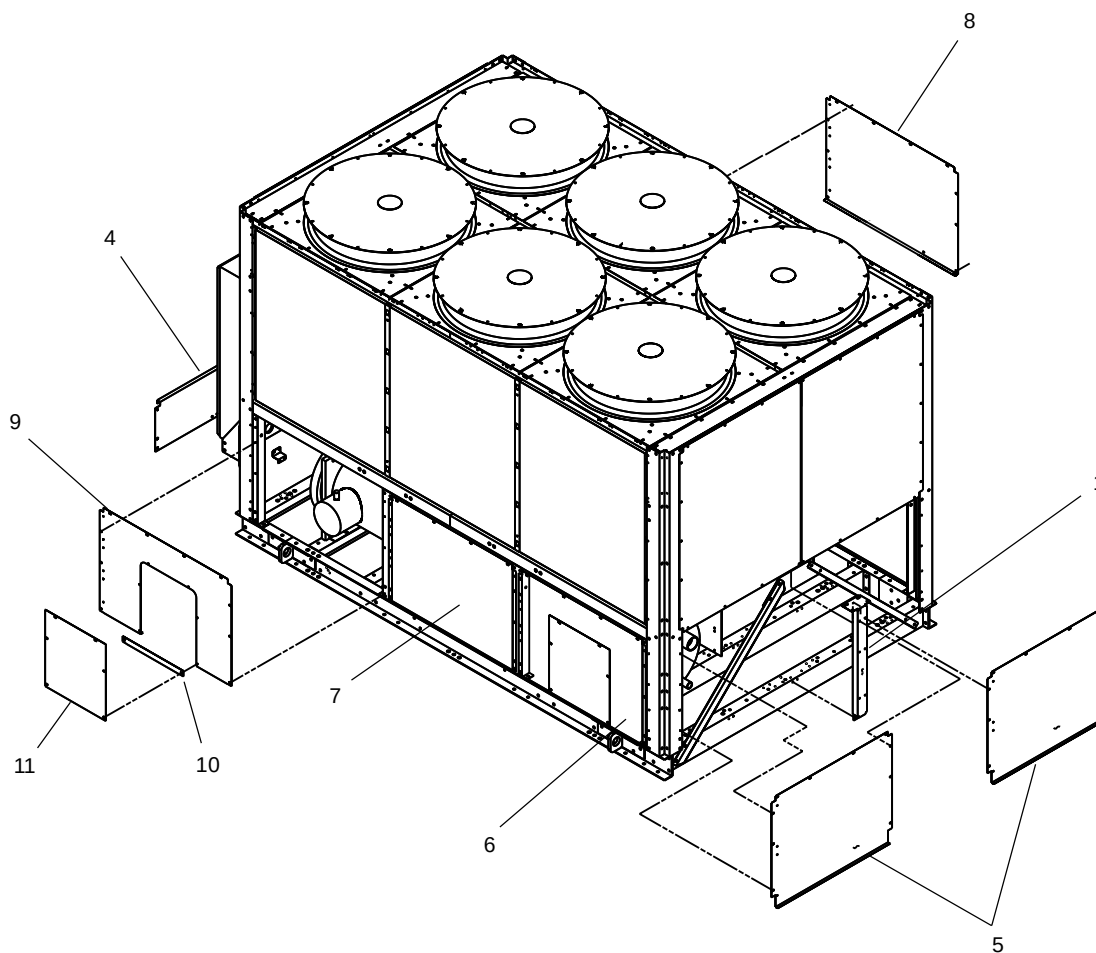
LD06223

FIG. 40 – TOP SECTION - LOUVERED PANEL ENCLOSURE - KIT NO. 375-29571-100 IS SHOWN.

TABLE 36 – TOP SECTION - LOUVERED PANEL ENCLOSURE

TOP KIT COMPONENTS 375-29571-100 AND 375-29571-120				
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



LD06224

FIG. 41 – BOTTOM SECTION - LOUVERED PANEL ENCLOSURE - KIT NO. 375-29571-101 IS SHOWN.

TABLE 37 – BOTTOM SECTION - LOUVERED PANEL ENCLOSURE

BOTTOM KIT COMPONENTS 375-29571-101 AND 375-29080-121				
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 38 – 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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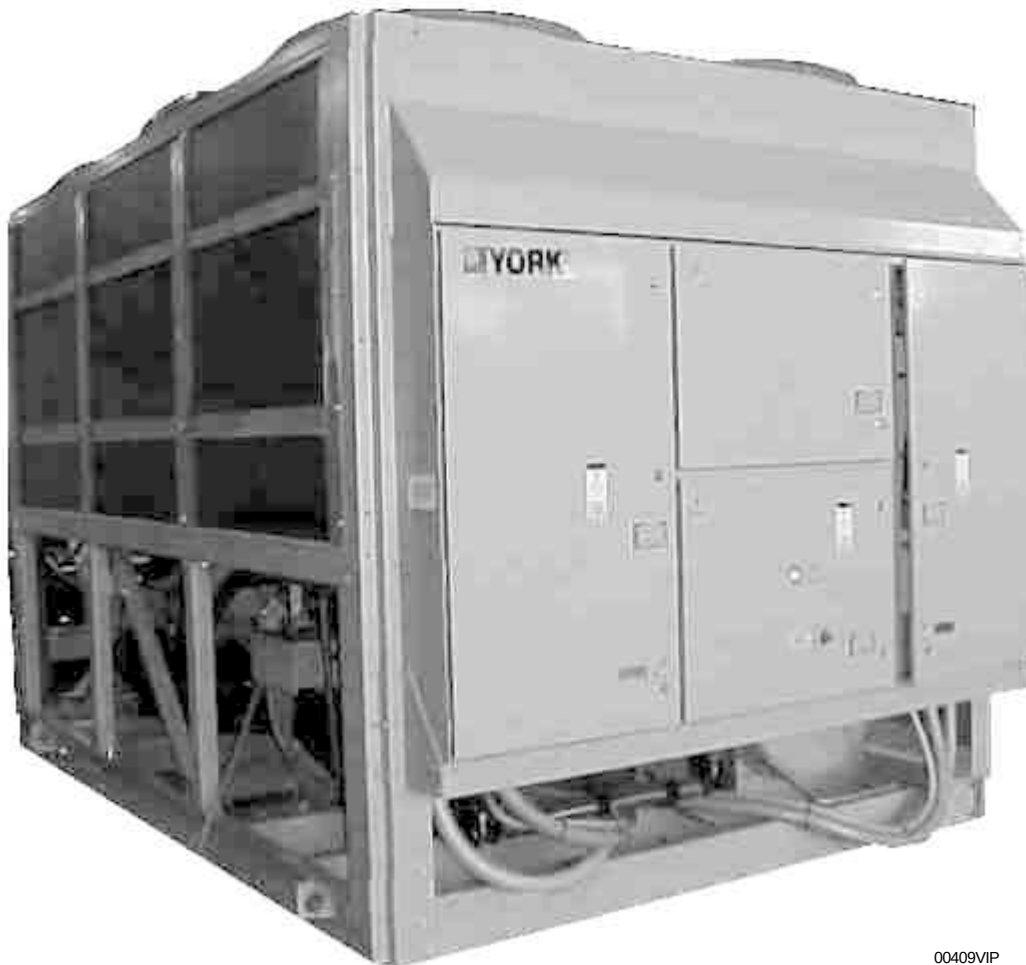
RENEWAL PARTS LIST

New Release

Form 201.18-RP5 (900)

MODELS YCAS0090, YCAS0100, YCAS0110 & YCAS0120

60 HERTZ



00409VIP

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WARNING

HIGH VOLTAGE

Is used in the operation of this equipment.

DEATH OR SERIOUS INJURY

may result if personnel fail to observe safety precautions.

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

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

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

LOW VOLTAGE

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

BASIC PART NUMBER

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15
BASE PRODUCT TYPE				NOMINAL CAPACITY				UNIT DESIGNATOR	REFRIGERANT	VOLTAGE/STARTER			DESIGN/DEVELOPMENT LEVEL	
Y				0	#	#	#	S	B	1	7		F	
	C						Tons	E	R-407C	2	8	:200 / 3/ 60		:Design Series F
		A					0090			4		:230 / 3/ 60	A	:Engineering
			S				0100	K	R-22	4	0	:380 / 3/ 60		Change
							0110	H		4	6	:460 / 3/ 60		or PIN Level
							0120			5	8	:575 / 3/ 60		
												Y :Wye (Star) Delta		
												X :Across the Line		

[illegible]

MP = Multiple Point

SP = Single Point

NF = Non-Fused

TB = Terminal Block

Ser. = Service

Sep. Sys. Brkr. = Separate System Breaker

[illegible]

55

EXTENDED WARRANTIES

X	: 1st Year Parts Only
B	: 1st Year Parts & Labor
C	: 2nd Year Parts Only
D	: 2nd Year Parts & Labor
E	: 5 Year Compressor Parts Only
F	: 5 Year Compressor Parts & Labor
G	: 5 Year Unit Parts Only
H	: 5 Year Unit Parts & Labor

NOTES:

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

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EVAPORATOR COMPONENTS

SVC NOTE:
UNWEAT BRAZED ON
STEEL COUPLINGS - FOR
FIELD PIPE CONNECTION

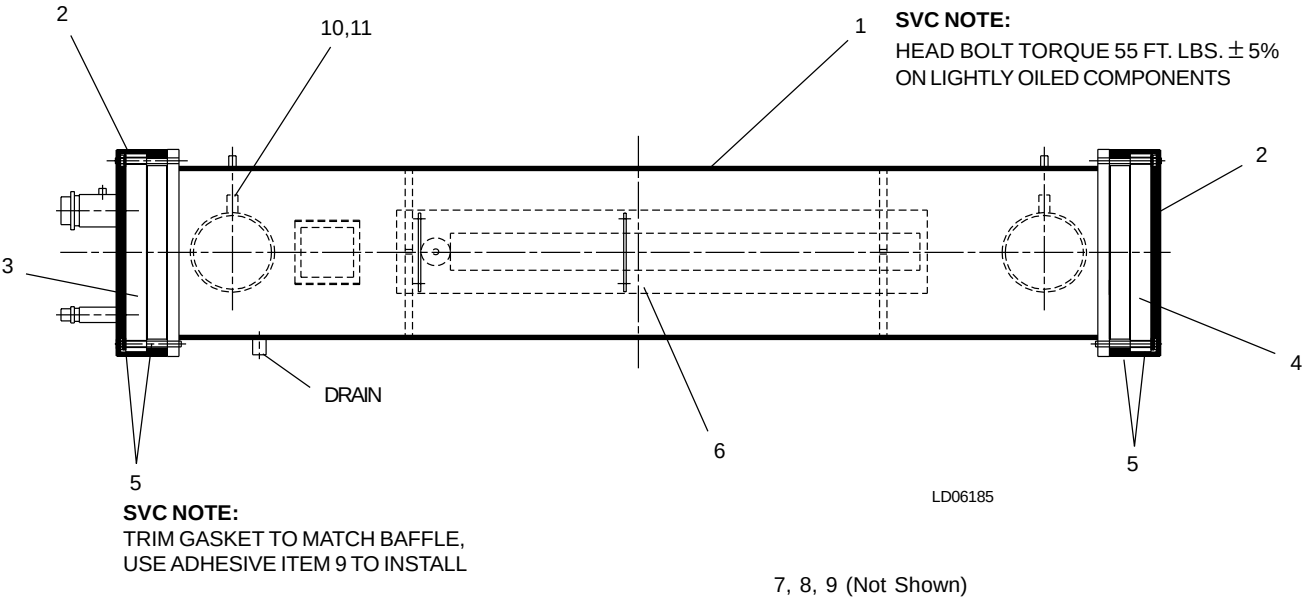


FIG. 1 – EVAPORATOR COMPONENTS - 150 PSI

- 150# EVAPORATOR FLOW SWITCH 024-26116-000

TABLE 1 – EVAPORATOR COMPONENTS - 150 PSI

ITEM NUMBER	QTY. PER UNIT	DESCRIPTION	DWP	UNIT MODEL YCAS0090 THRU YCAS0120
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	023-01564-000
11	2	Well, Thermo CU 1/2" x 9-1/2"	ALL	026-33627-000

EVAPORATOR COMPONENTS (CONT'D)

SVC NOTE:

UNWEAT BRAZED ON
STEEL COUPLINGS - FOR
FIELD PIPE CONNECTION

SVC NOTE:

HEAD BOLT TORQUE 55 FT. LBS. $\pm$ 5%
ON LIGHTLY OILED COMPONENTS

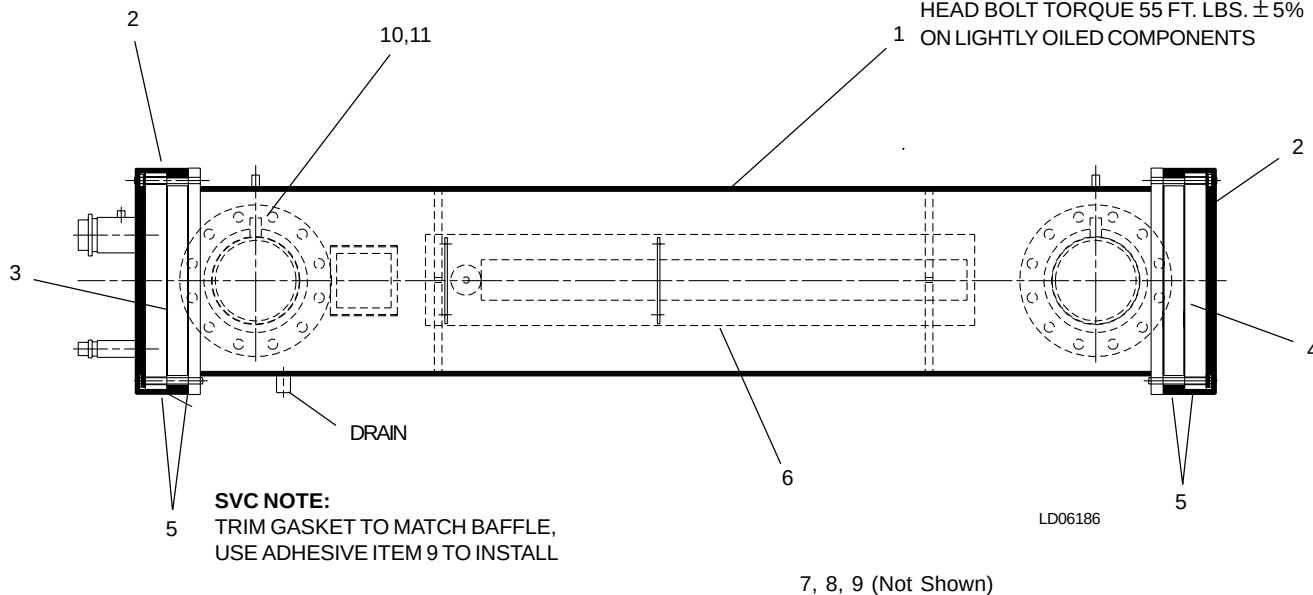


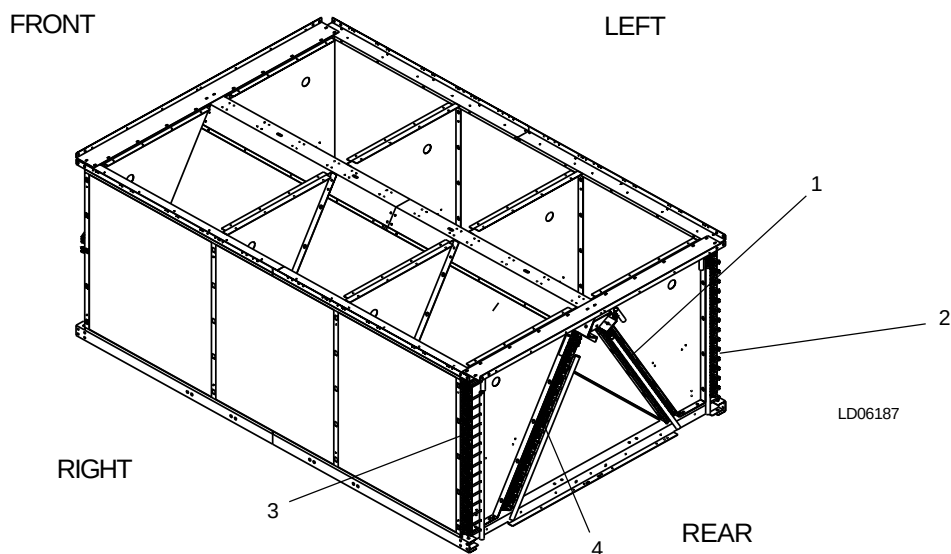
FIG. 2 – EVAPORATOR COMPONENTS - 300 PSI

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

TABLE 2 – EVAPORATOR COMPONENTS - 300 PSI

ITEM NUMBER	QTY. PER UNIT	DESCRIPTION	DWP	UNIT MODEL YCAS0090 THRU YCAS0120
1	1	Evaporator, less Heater & Insulation (Items 2 thru 5)	300	375-32154-000
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	023-01564-000
11	2	Well, Thermo CU 1/2" x 9-1/2"	ALL	026-33627-000

CONDENSER COIL COMPONENTS



VIEW OF CHILLER FROM POWER PANEL END

FIG. 3 – CONDENSER COIL LAYOUT

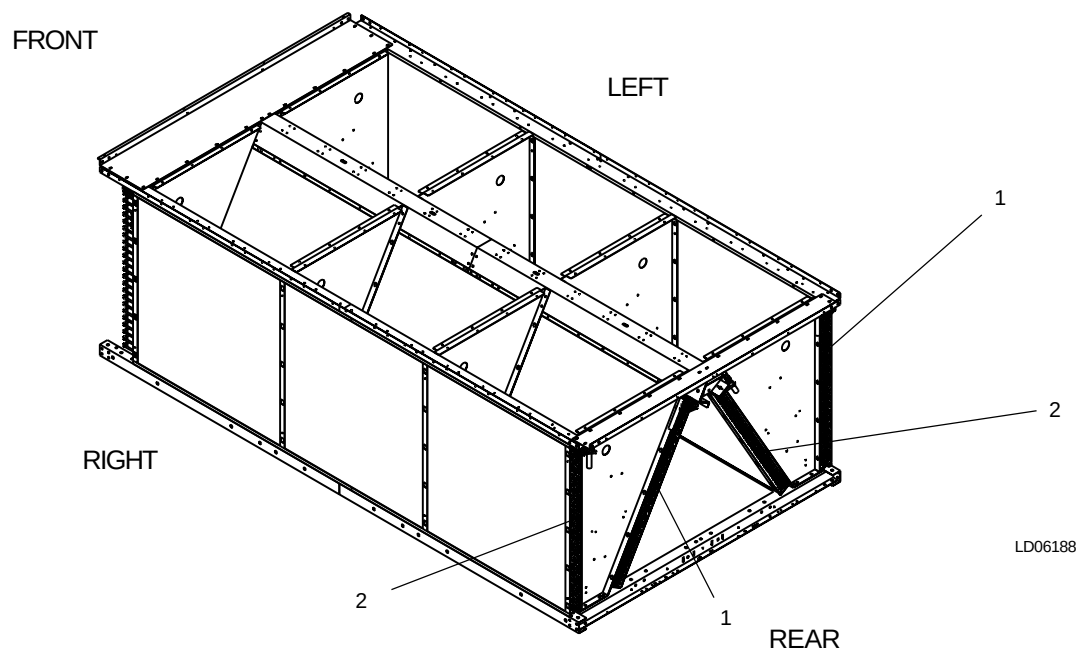
Coils for each circuit are denoted left and right as viewed from power panel end of chiller.

TABLE 3 – CONDENSER COILS – YCAS0090 AND YCAS0100

			MODELS YCAS0090 - 0100 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

NOTES: Coil Assemblies are complete with headers.
For headers – contact Factory Service.
Tube-In-Tube Repairs – contact Factory Service.

CONDENSER COIL COMPONENTS (CONT'D)



VIEW OF CHILLER FROM POWER PANEL END

FIG. 4 – CONDENSER COIL LAYOUT

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

TABLE 4 – CONDENSER COILS – YCAS0090 AND YCAS 0100

			MODELS YCAS0110 - 0120 12' COIL
ITEM NUMBER	DESCRIPTION	QTY.	YORK PART NO.
ALUMINUM FIN COIL			
1	Cond. Coil Assembly, Right	2	375-27435-001
2	Cond. Coil Assembly, Left	2	375-27435-002
BLACK FIN COIL			
1	Cond. Coil Assembly, Right	2	375-23772-001
2	Cond. Coil Assembly, Left	2	375-23772-002
PHENOLIC COATED ALUMINUM FIN			
1	Cond. Coil Assembly, Right	2	375-29011-001
2	Cond. Coil Assembly, Left	2	375-29011-002
COPPER FIN			
1	Cond. Coil Assembly, Right	2	375-23778-001
2	Cond. Coil Assembly, Left	2	375-23778-002

NOTES: Coil Assemblies are complete with headers.
 For headers – contact Factory Service.
 Tube-In-Tube Repairs – contact Factory Service.

FAN COMPONENTS

CHILLER MODELS YCAS0090 AND YCAS0100

TABLE 5 – FAN COMPONENTS - CHILLER MODELS YCAS0090 AND YCAS0100

ITEM NUMBER	DESCRIPTION	VOLTAGE CODE	FAN TYPE	
			STANDARD 7/8" Ø SHAFT, 1160 RPM	LOW NOISE (OPTIONAL) 7/8" Ø SHAFT, 850 RPM
1 ^s	Motor 2 HP (Wt. = 50 LBS.)	-17	024-30900-002	024-30933-002
		-28	024-30900-002	024-30933-002
		-40	024-30900-004	024-30933-004
		-46	024-30900-001	024-30933-001
		-58	024-30900-003	024-30933-003
2 ^s	Blade	All	026-35604-000 21°	026-36532-000 30°
3	Guard	All	026-35605-000	
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

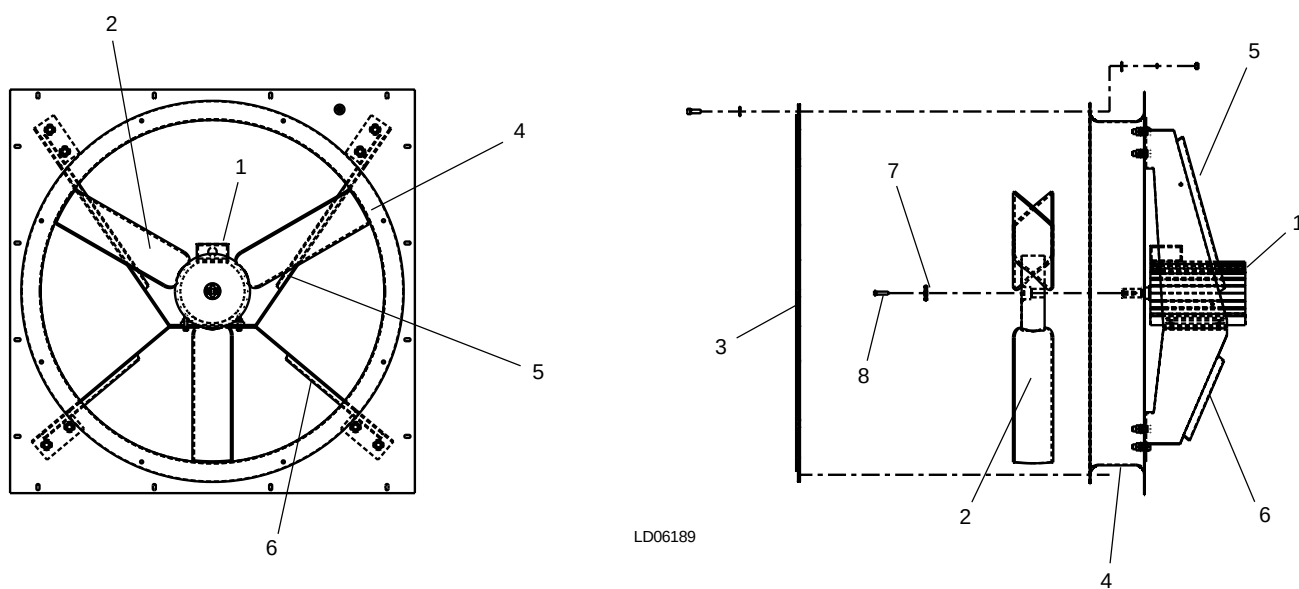


FIG. 5 – FAN COMPONENTS - CHILLER MODELS YCAS0090 AND YCAS0100

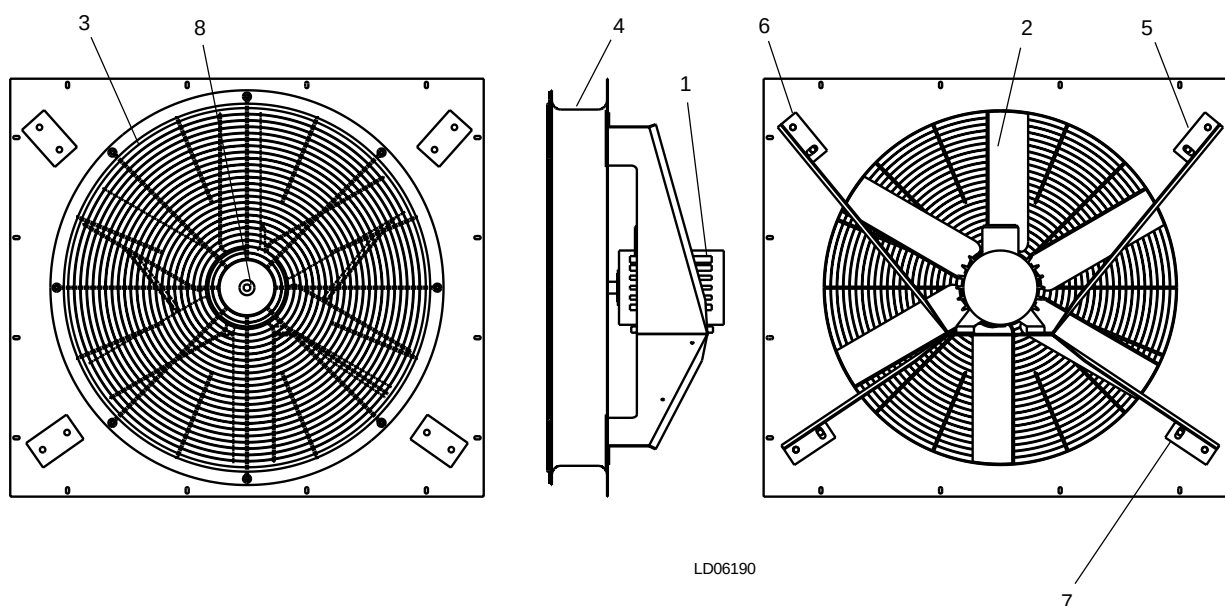
FAN COMPONENTS (CONT'D)

CHILLER MODELS YCAS0110 AND YCAS0120

TABLE 6 – FAN COMPONENTS - CHILLER MODELS YCAS0110 AND YCAS0120

ITEM NUMBER	DESCRIPTION	VOLTAGE CODE	FAN TYPE	
			STANDARD 1 1/8" Ø SHAFT, 1160 RPM	LOW NOISE (OPTIONAL) 1 3/8" Ø SHAFT, 850 RPM
1^s	Motor 3 HP (Wt. = 50 LBS.)	-17	024-25179-002	024-25247-000
		-28	024-25179-002	024-25247-000
		-40	024-25179-001	024-25247-000
		-46	024-25179-001	024-25247-000
		-58	024-25250-000	024-25252-000
2^s	Blade	All	026-36769-000 21°	026-36786-000 30°
3	Guard	All	026-35605-000	
4	Orifice	All	026-36141-000	
5	Support, Motor, Upper	All	075-25584-000	
6	Support, Motor, Lower	All	075-25583-000	
7	Spacer, Fan Motor	All	075-29007-000	
8	Screw, Cap	All	021-18494-000	

^sRecommended Spare Part

**FIG. 6 – FAN COMPONENTS - CHILLER MODELS YCAS0110 AND YCAS0120**

PIPING COMPONENTS CHILLER MODEL YCAS0090

TABLE 7 – PIPING COMPONENTS (SEE FIG. 7, PAGE 13)

ITEM NO.	QTY PER UNIT	DESCRIPTION	SYSTEM	YCAS0090
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 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 YCAS0090

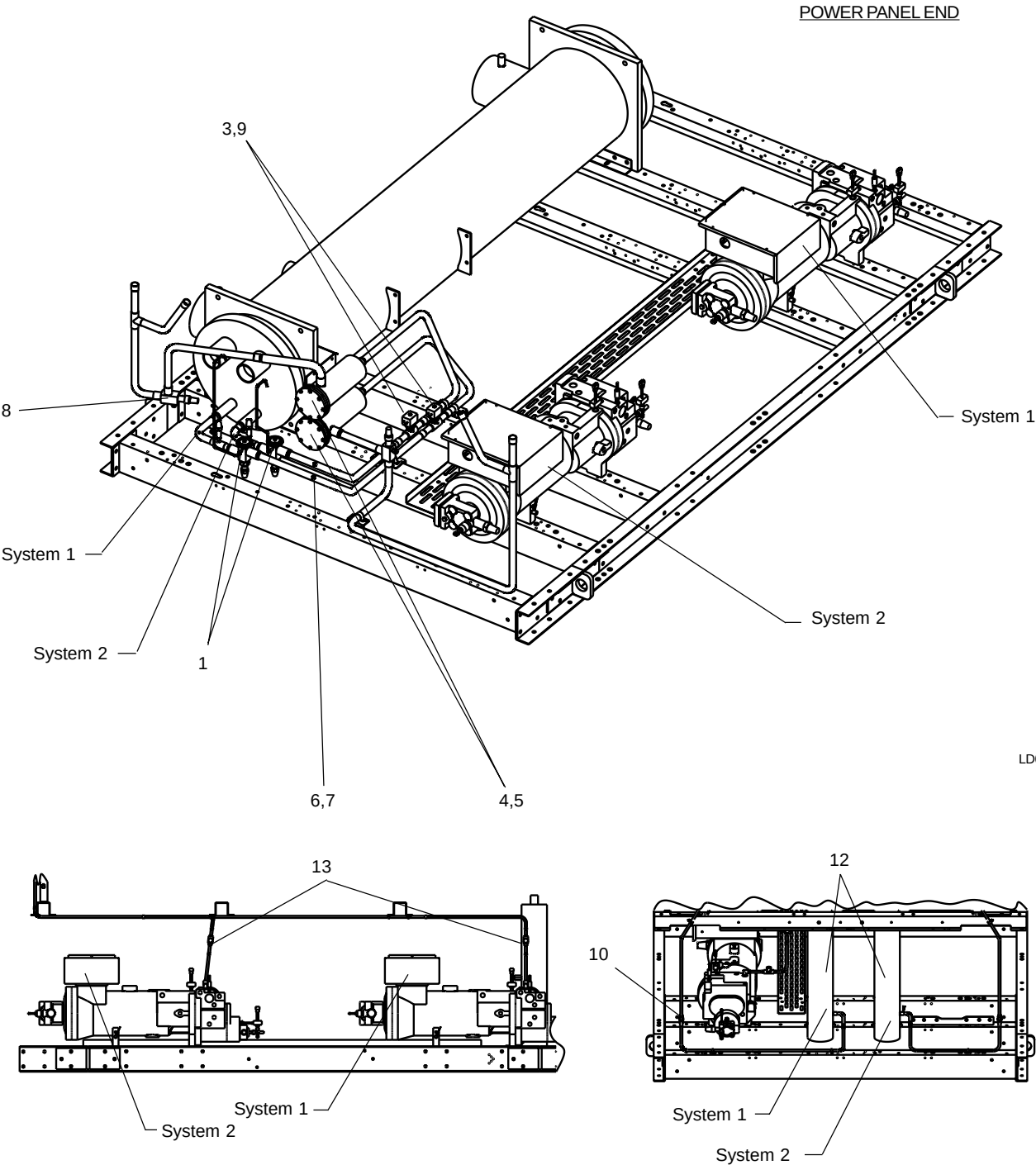


FIG. 7 – PIPING COMPONENTS (REF. TABLE 7, PAGE 12)

PIPING COMPONENTS (CONT'D)

CHILLER MODEL YCAS0100

TABLE 8 – PIPING COMPONENTS (SEE FIG. 8, PAGE 15)

ITEM NO.	QTY PER UNIT	DESCRIPTION	SYSTEM	YCAS0100
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 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 COMPONENTS (CONT'D)

CHILLER MODEL YCAS0100

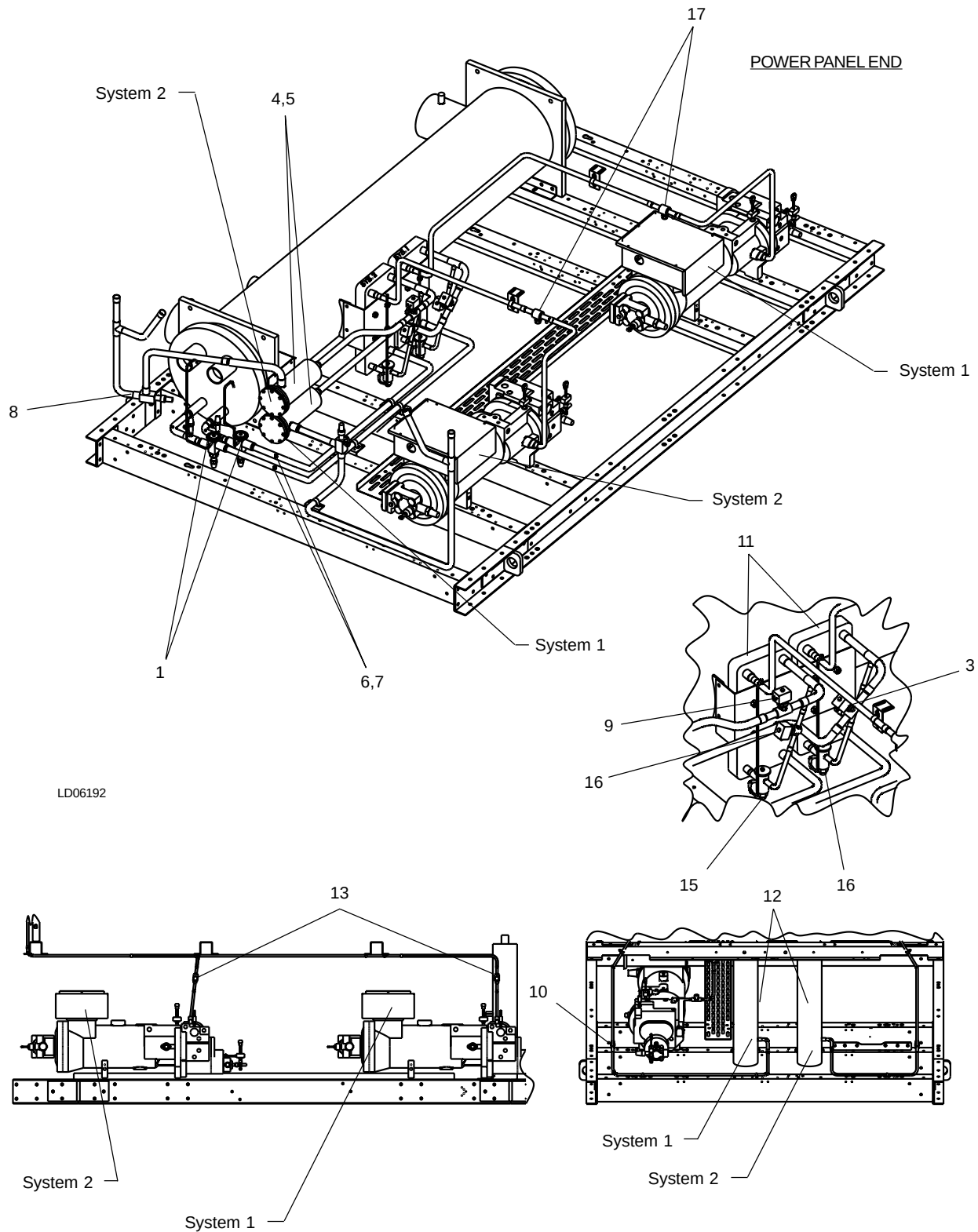


FIG. 8 – PIPING COMPONENTS (REF. TABLE 8, PAGE 14)

PIPING COMPONENTS (CONT'D)

CHILLER MODEL YCAS0110

TABLE 9 – PIPING COMPONENTS (SEE FIG. 9, PAGE 17)

ITEM NO.	QTY PER UNIT	DESCRIPTION	SYSTEM	YCAS0110
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 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 YCAS0110

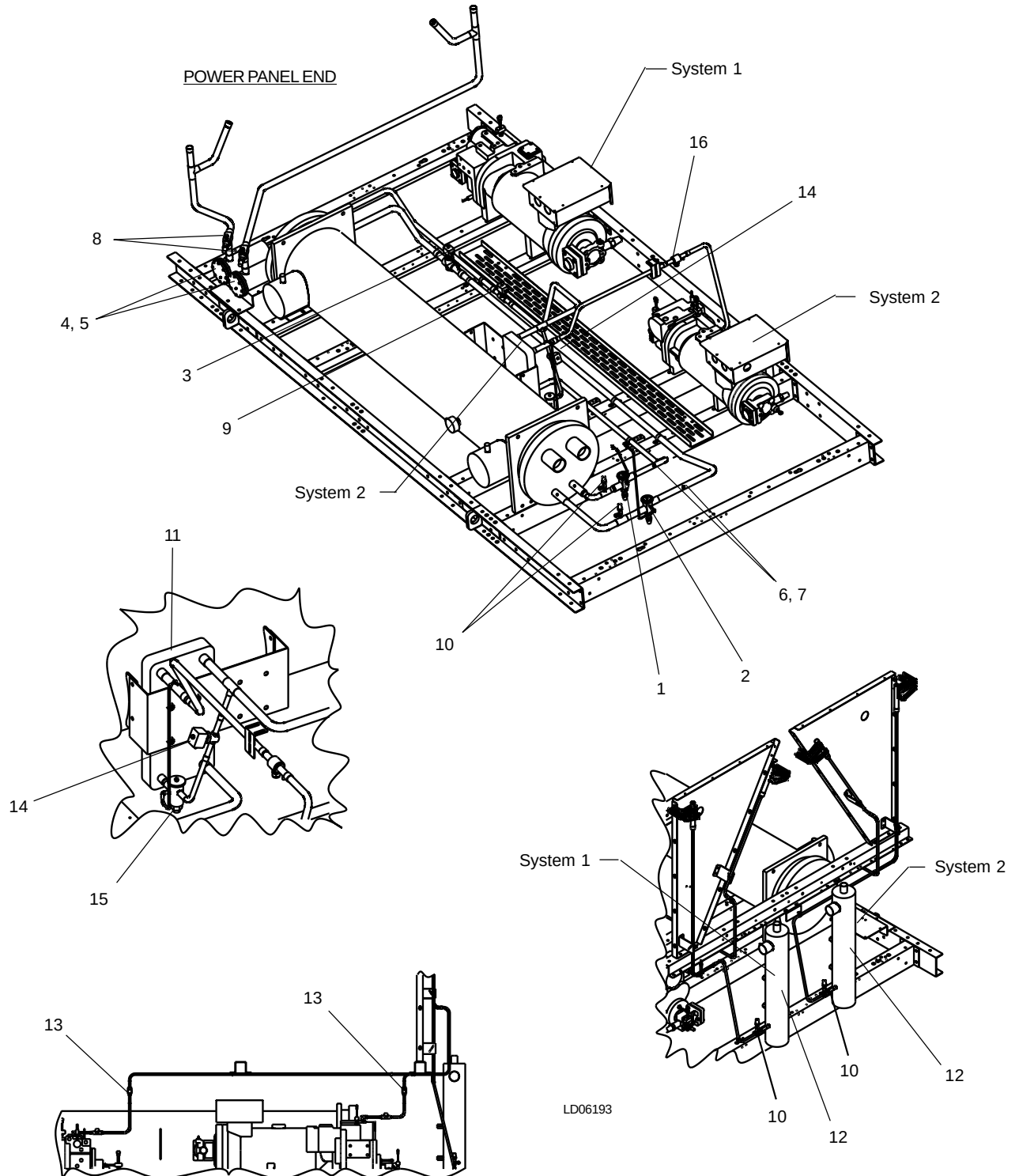


FIG. 9 – PIPING COMPONENTS (REF. TABLE 9, PAGE 16)

PIPING COMPONENTS (CONT'D)

CHILLER MODEL YCAS0120

TABLE 10 – PIPING COMPONENTS (SEE FIG. 10, PAGE 19)

ITEM NO.	QTY PER UNIT	DESCRIPTION	SYSTEM	YCAS0120
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 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 YCAS0120

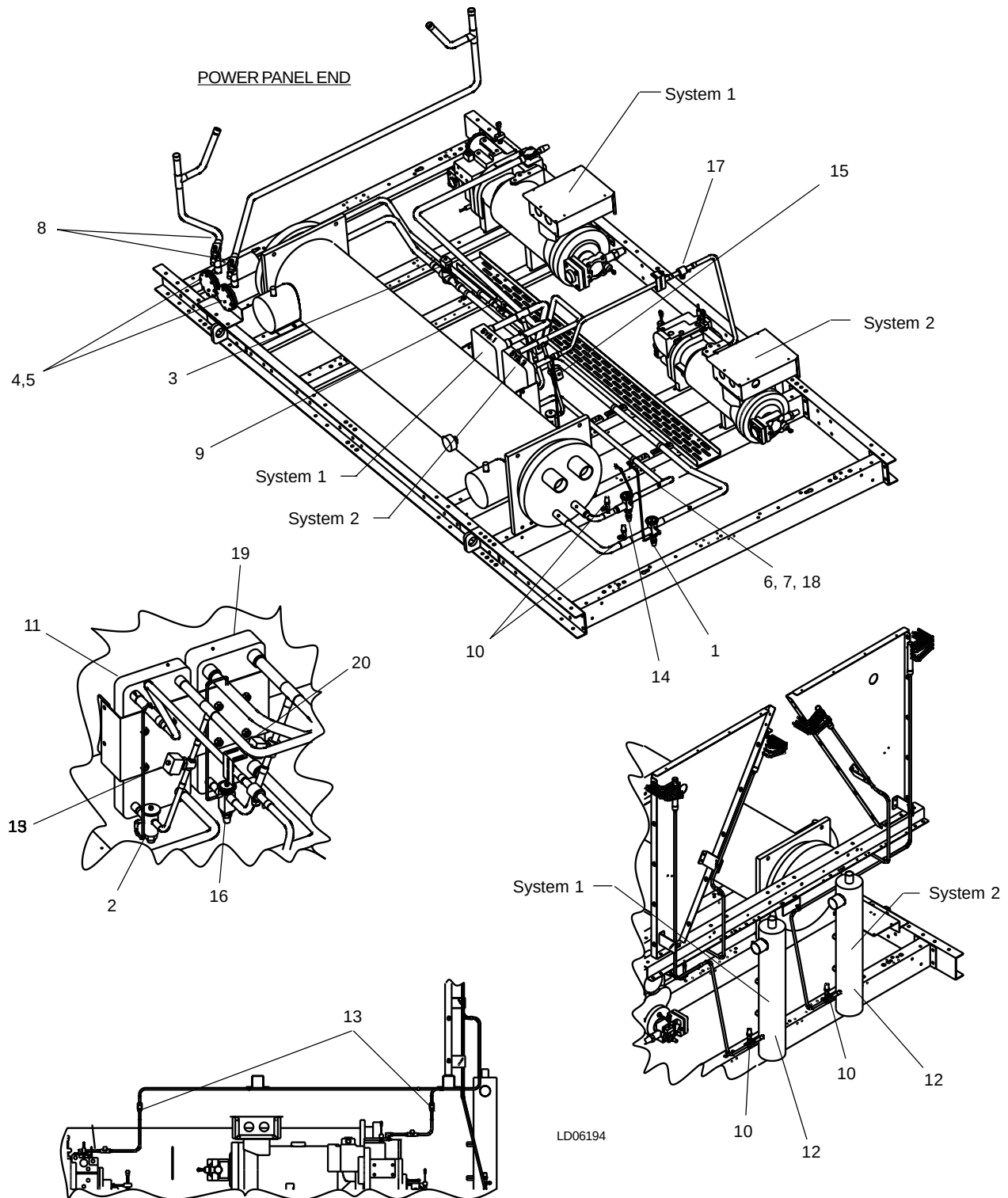


FIG. 10 – PIPING COMPONENTS (REF. TABLE 10, PAGE 18)

RELIEF VALVES AND HP CUTOUT SWITCH

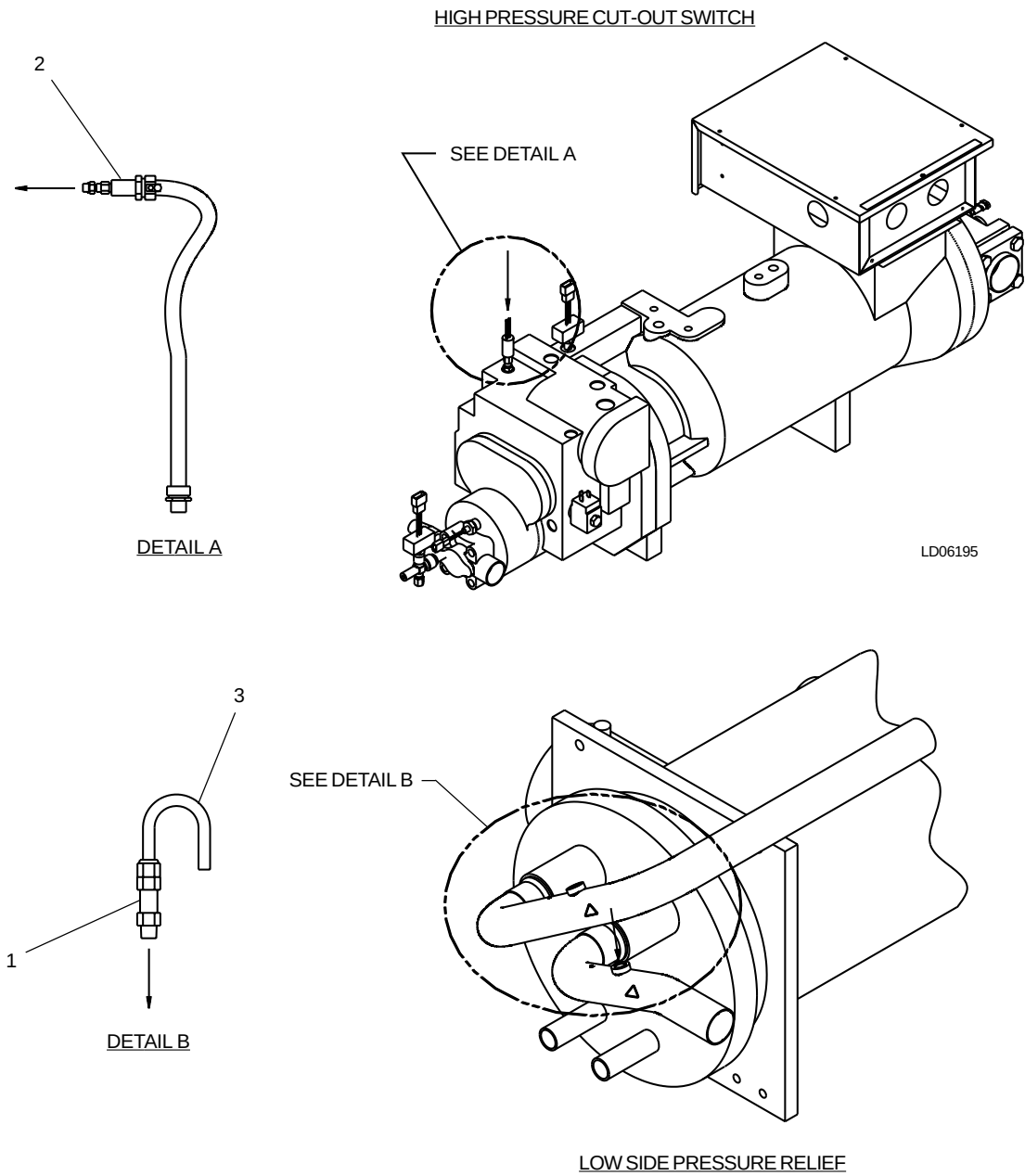


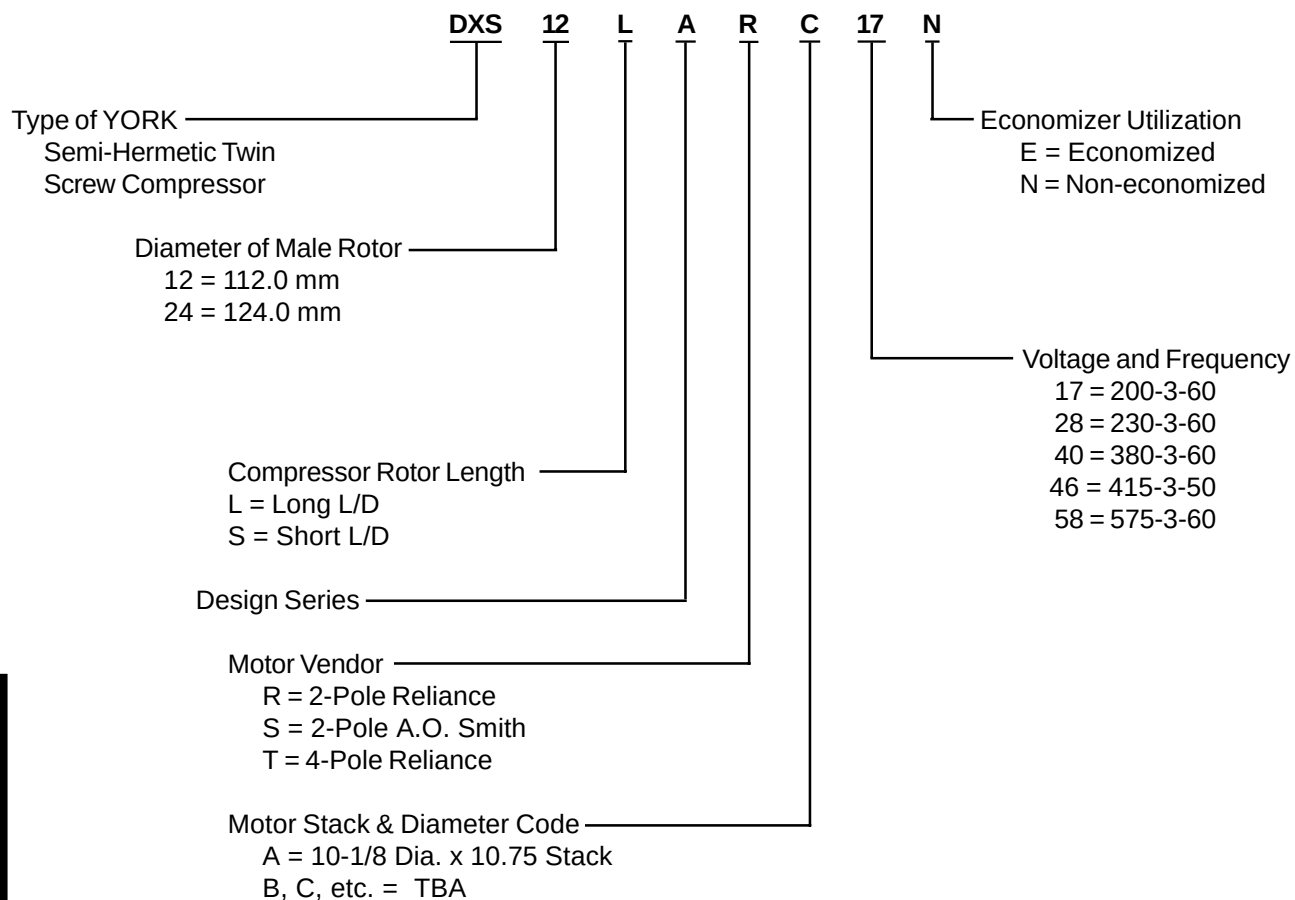
FIG. 11 – RELIEF VALVES AND HP CUTOUT SWITCH

TABLE 11 – RELIEF VALVES AND HP CUTOUT SWITCH

ITEM	QUANTITY	DESCRIPTION	SYSTEM	ALL MODELS
1	2	Low Side Relief, Angle V 21 Bar	Both	022-10045-000
2	2	HP Sw, NC, Auto Reset	Both	025-30480-000
3	2	Tube for 1	Both	375-30919-000

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COMPRESSOR MODEL NOMENCLATURE



COMPRESSOR WEIGHTS

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

* LESS VALVES

COMPRESSOR PART NUMBERS

COMPRESSOR PART NUMBERS					
UNIT	VOLTAGE CODE	SIZE (MM)		COMPRESSOR	
		SYS 1	SYS 2	SYSTEM # 1	SYSTEM # 2
YCAS0090	-17	112	112	364-49096-012	364-49096-012
	-28	112	112	364-49096-013	364-49096-013
	-40	112	112	364-49096-014	364-49096-014
	-46	112	112	364-49096-015	364-49096-015
	-58	112	112	364-49096-016	364-49096-016
YCAS0100	-17	112	112	364-49096-112	364-49096-112
	-28	112	112	364-49096-113	364-49096-113
	-40	112	112	364-49096-114	364-49096-114
	-46	112	112	364-49096-115	364-49096-115
	-58	112	112	364-49096-116	364-49096-116
YCAS0110	-17	124	112	364-49095-012	364-49096-112
	-28	124	112	364-49095-013	364-49096-113
	-40	124	112	364-49095-014	364-49096-114
	-46	124	112	364-49095-015	364-49096-115
	-58	124	112	364-49095-016	364-49096-116
YCAS0120	-17	124	112	364-49095-112	364-49096-112
	-28	124	112	364-49095-113	364-49096-113
	-40	124	112	364-49095-114	364-49096-114
	-46	124	112	364-49095-115	364-49096-115
	-58	124	112	364-49095-116	364-49096-116

Compressor

- 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 one per each compressor or
475-37845-001 one per each compressor
(Not required for compressor change out)

COMPRESSOR COMPONENTS

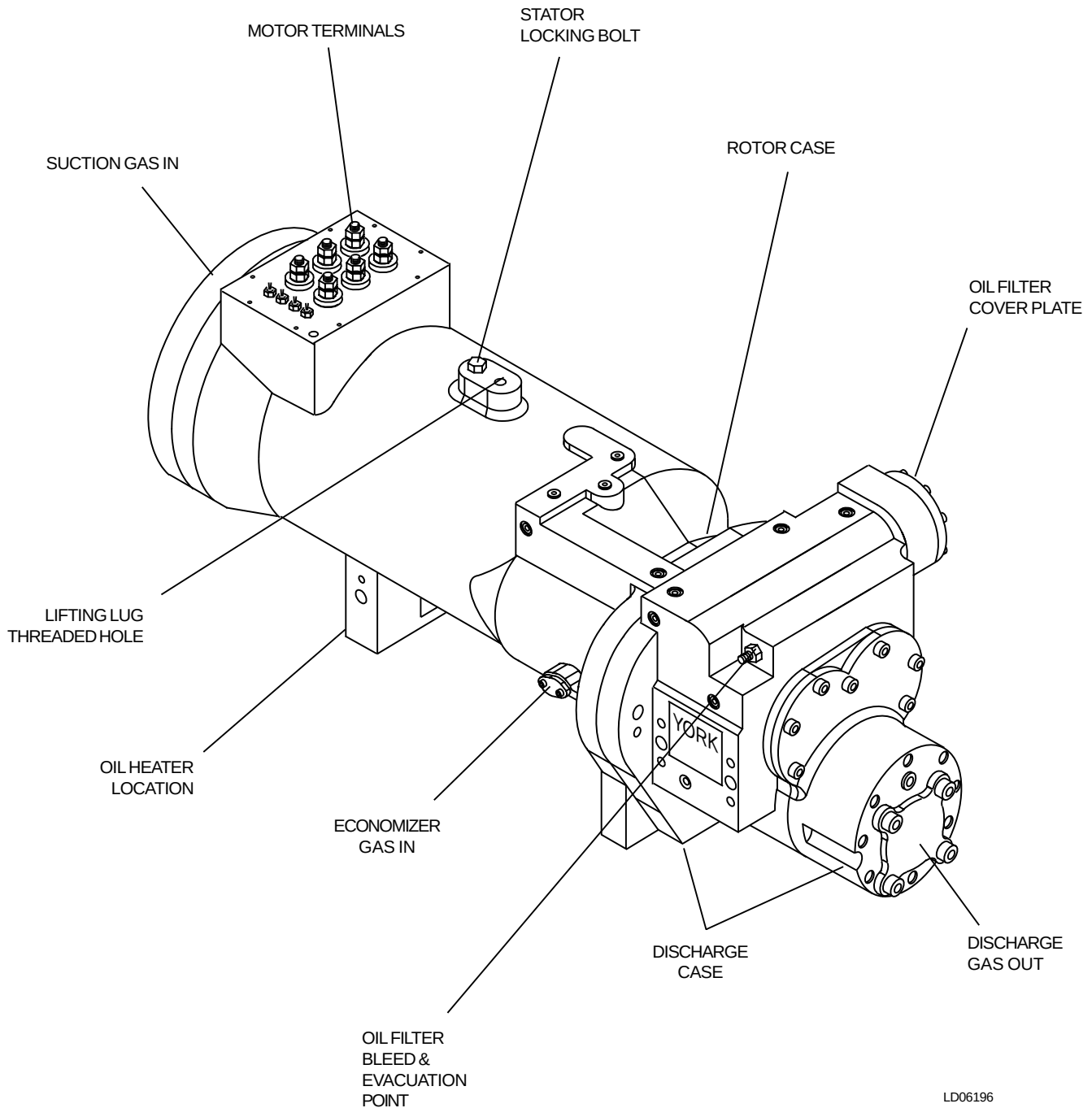


FIG. 12 – DXS COMPRESSOR OUTLINE

COMPRESSOR COMPONENTS / RELATED PARTS

TABLE 12 – COMPRESSOR ASSEMBLY (SEE FIG. 13, PAGE 26)

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	PLUG - HOLLOW HEX 1-7/8"	029-22735-000
14	RING, RETAINING	029-22743-000
18	O-RING 3 - 908	028-13856-000
28	PLUG - HOLLOW HEX 9/16"	023-18922-000
29	O-RING 3 - 906	028-13855-000
30	PLUG - 0.032 ORIFICE	029-22716-000
31	PLUG - 0.093 ORIFICE	029-22717-000
32	PLUG, HOLLOW HEX - 3/4"	023-18923-000
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

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

Compressor



26

PART OF FOLDOUT

Compressor

PART OF FOLDOUT

COMPRESSOR COMPONENTS / RELATED PARTS (CONT'D)

TABLE 13 – COMPRESSOR ASSEMBLY (SEE FIGS. 14 AND 15, PAGES 27, 27A, 27B AND 28)

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

COMPRESSOR COMPONENTS / RELATED PARTS (CONT'D)

TABLE 13 (CONT'D) – COMPRESSOR ASSEMBLY (SEE FIGS. 14 AND 15, PAGES 27, 27A, 27B AND 28)

ITEM NO.	PART DESCRIPTION	PART NUMBER
52	COVER, OIL FILTER	064-49003-000
53	VALVE, ACCESS - 7/16"	022-09715-000
54	SCREW, SOCKET HD. CAP - M8 x 30mm LG.	021-19115-000
55	SCREW, SOCKET HD. CAP - M8 x 35mm LG.	021-19617-000
56	SCREW, SOCKET HD. CAP - M8 x 80mm LG.	021-19616-000
57	VALVE, OIL CONTROL	022-09710-000
58	O-RING 2 - 023	028-13859-000
59	PLUG, OIL RETURN VALVE	064-49135-000
60	O-RING 3 - 916	028-13857-000
61	VALVE, CAPACITY CONTROL	025-33205-000
62	PLUG - HOLLOW HEX 7/16"	023-18921-000
63	O-RING 3 - 904	028-13854-000
64	SLEEVE, M.R. SPACER BEARING	064-49511-000
65	SLEEVE, F.R. SPACER BEARING	064-49512-000
66	O-RING 2 - 148	028-13947-000
67	PIN, DOWEL - 12mm x 40mm LG. (SPECIAL)	029-22712-000
68	PIN, DOWEL - 12mm x 40mm LG.	029-22713-000
69	O-RING 2 - 152	028-13849-000
70	ORIFICE, MUFFLER	064-49515-000
71	SPACER, MUFFLER	064-49514-000
72	BUTTON, CHECK VALVE	064-49507-000
73	O-RING 2 - 155	028-13962-000
74	SPRING, MUFFLER PRELOAD	029-22912-000
75	GASKET 1-1/2"	028-13862-000
76	PLATE, VALVE COVER	064-49010-000
77	SCREW, SOCKET HD. CAP - M12 x 30mm LG.	021-19119-000
78	PLATE, DATA	029-22722-000
79	SPRING, BEARING PRELOAD	029-22913-000
201	STATOR, MOTOR - 17	024-30911-002
	- 28	024-30911-003
	- 40	024-30911-004
	- 46	024-30911-005
	- 58	024-30911-006

**TABLE 14 – COMPRESSOR OIL AND FILTER COMPONENTS
(SEE FIG. 15, PAGES 27B AND 28)**

ITEM NO.	QTY PER COMP	DESCRIPTION	MODEL YCAS0090 - YCAS0120
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 15 – COMPRESSOR AND CONTROL COMPONENTS (SEE FIG. 16)

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 16 – COMPRESSOR STOP VALVES AND GASKETS (SEE FIG. 16)

ITEM NO.	DESCRIPTION	APPLICATION	PART NUMBER
205	Stop Valve, 1-3/8	112mm discharge; 124mm Economizer Port	022-03727-003
206	Gasket, 1-3/8 Valve		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

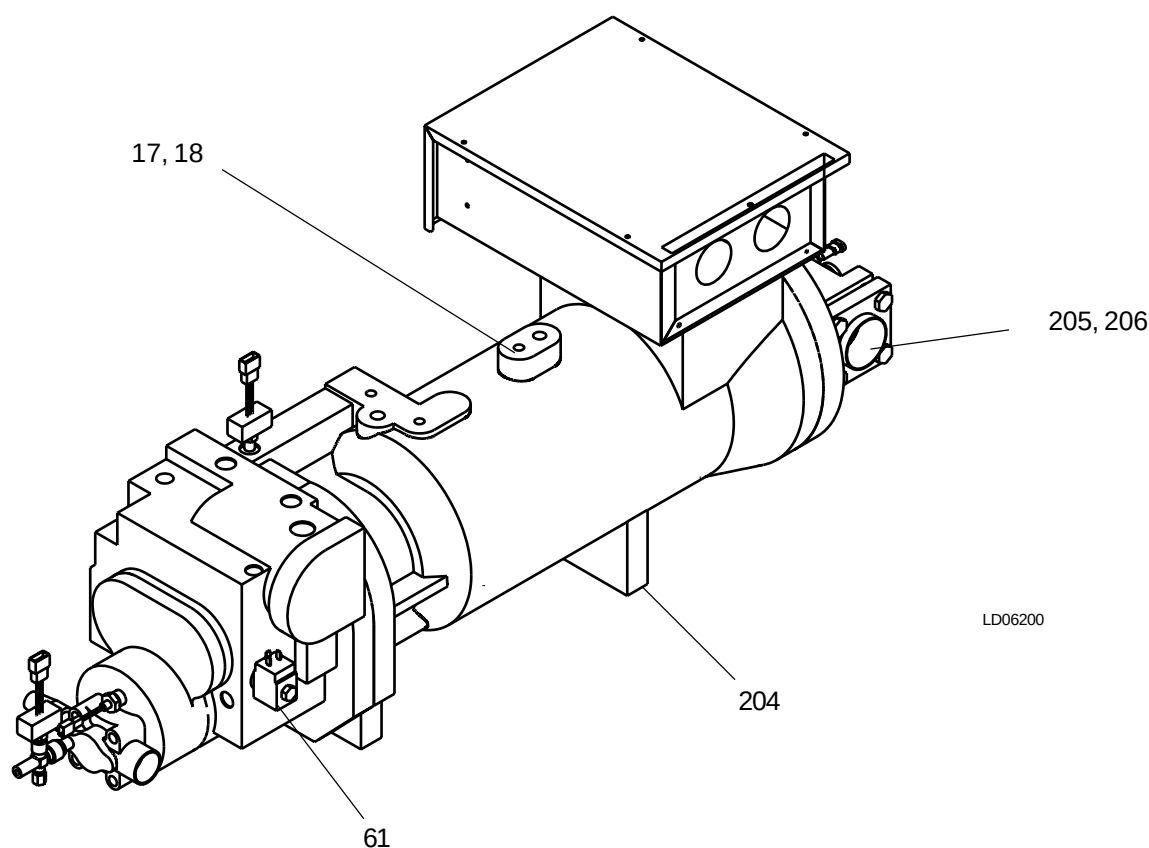


FIG. 16 – COMPRESSOR AND CONTROL COMPONENTS (REF. TABLES 15 AND 16)

MICRO PANEL COMPONENTS

TABLE 17– MICRO PANEL COMPONENTS (SEE FIGS.17 AND 18, PAGES 33, 33A, 33B AND 34)

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	Varies	Plug, 9 Pin	025-28383-000	See Pages 33, 33A, 33B and 34
41	Varies	Plug, 12 Pin	025-28384-000	See Pages 33, 33A, 33B and 34

PART OF FOLDOUT

PART OF FOLDOUT

SENSOR HARNESS

CHILLER MODELS YCAS0090 AND YCAS0100

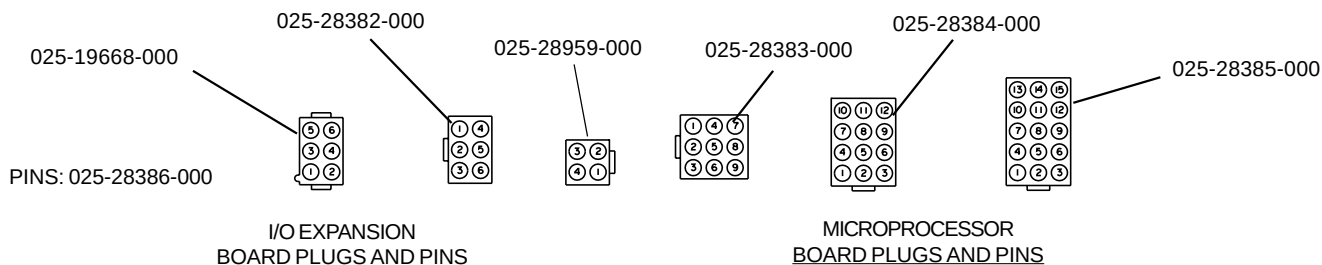
TABLE 18 – SENSOR HARNESS WIRING (SEE FIGS. 19, 20 AND 21, PAGES 35, 36 AND 37)

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		
		DRAIN	2		
	2	RED	5	SYS #1 OIL PRESSURE	375-33776-403
		BLK	3		
		WHT	8		
		DRAIN	9		
MICRO P14	3	RED	4	SYS #2 SUCTION PRESSURE	375-33776-402
		BLK	1		
		WHT	7		
		DRAIN	2		
	4	RED	5	SYS #2 OIL PRESSURE	375-33776-404
		BLK	3		
		WHT	8		
		DRAIN	9		
MICRO P11	5	RED	7	LEAVING CHILLED WATER	375-33776-415
		BLK	4		
		DRAIN	1		
	6	RED	8	ENTERING CHILLED WATER	375-33776-416
		BLK	5		
		DRAIN	2		
MICRO P15	8	RED	9	OUTSIDE AIR TEMP.	375-33776-417
		BLK	6		
		DRAIN	3		
		RED	5		
	9	BLK	3	SYS #1 DISCH. PRESSURE	375-33776-405
		WHT	8		
		DRAIN	9		
		RED	4		
MICRO P16	10	BLK	1	SYS #2 DISCH. PRESSURE	375-33776-406
		WHT	7		
		DRAIN	2		
		RED	5		
	11	BLK	6	SYS #1 SUCTION TEMP.	375-33776-411
		WHT	8		
		DRAIN	9		
		RED	4		
I/O P10	16	BLK	3	SYS #2 SUCTION TEMP.	375-33776-412
		WHT	8		
		DRAIN	9		
		RED	5		
	17	BLK	6	SYS #1 OIL TEMP.	375-33776-421
		WHT	8		
		DRAIN	9		
		RED	5		
I/O P8	12	BLK	7	SYS #2 OIL TEMP.	375-33776-422
		WHT	8		
		DRAIN	9		
		RED	5		
	13	BLK	6	SYS #1 DISCH. TEMP.	375-33776-413
		WHT	8		
		DRAIN	9		
		RED	5		
I/O P2	31	RED (47)	1	SYS #2 DISCH. TEMP.	375-33776-414
		BLK (48)	2		
		DRAIN	6		
I/O P12	32	RED (49)	1	SYS #1 SLIDE VALVE	375-33776-423
		BLK (50)	2		
		DRAIN	6		

Micro 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)

**FIG. 19 – SENSOR HARNESS PLUGS AND PINS**

LD06203

SENSOR HARNESS (CONT'D) **CHILLER MODELS YCAS0090 AND YCAS0100**

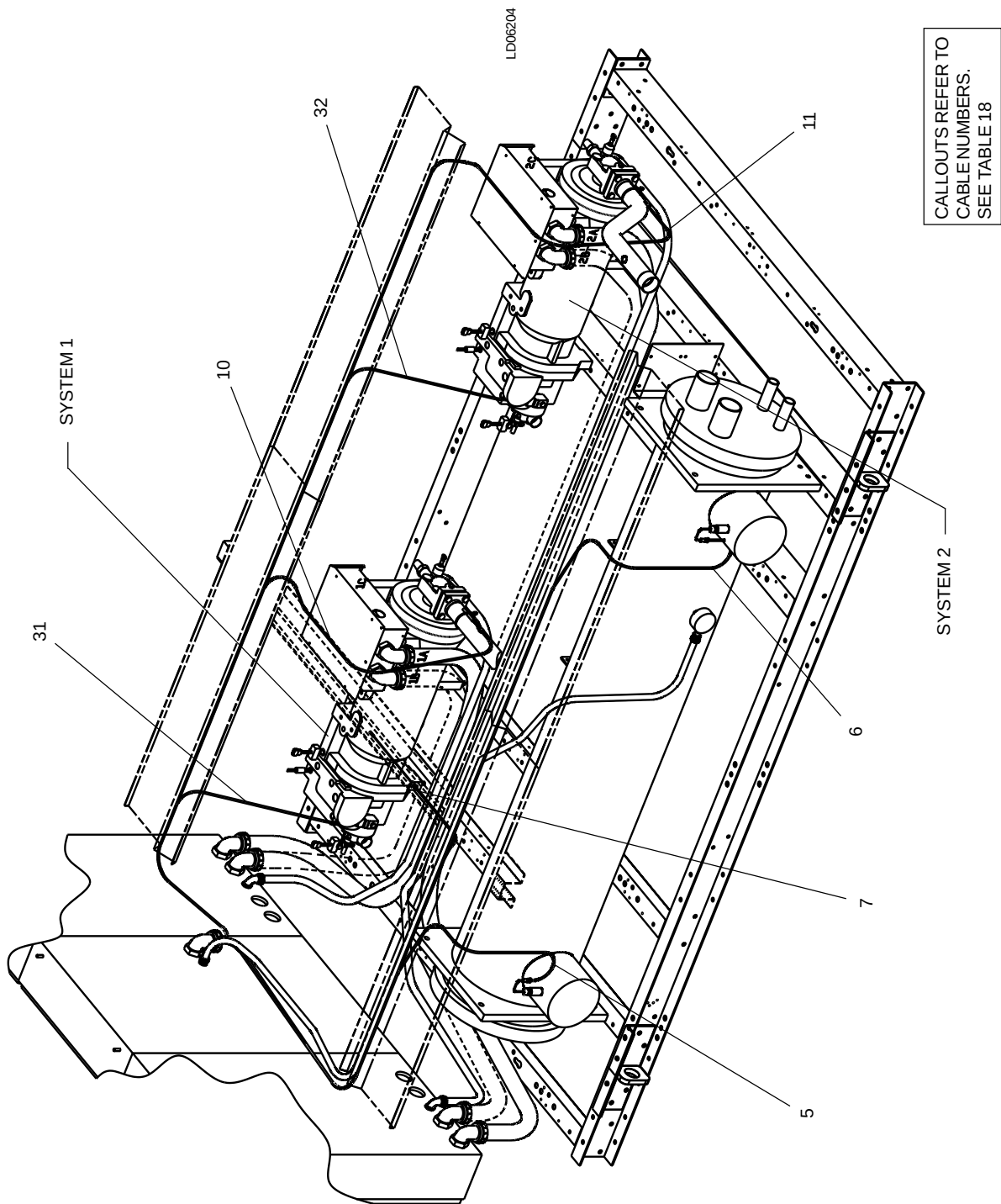


FIG. 20 – HARNESS LAYOUT (REF. TABLE 18, PAGE 35)

Micro Panel

SENSOR HARNESS (CONT'D)
CHILLER MODELS YCAS0090 AND YCAS0100

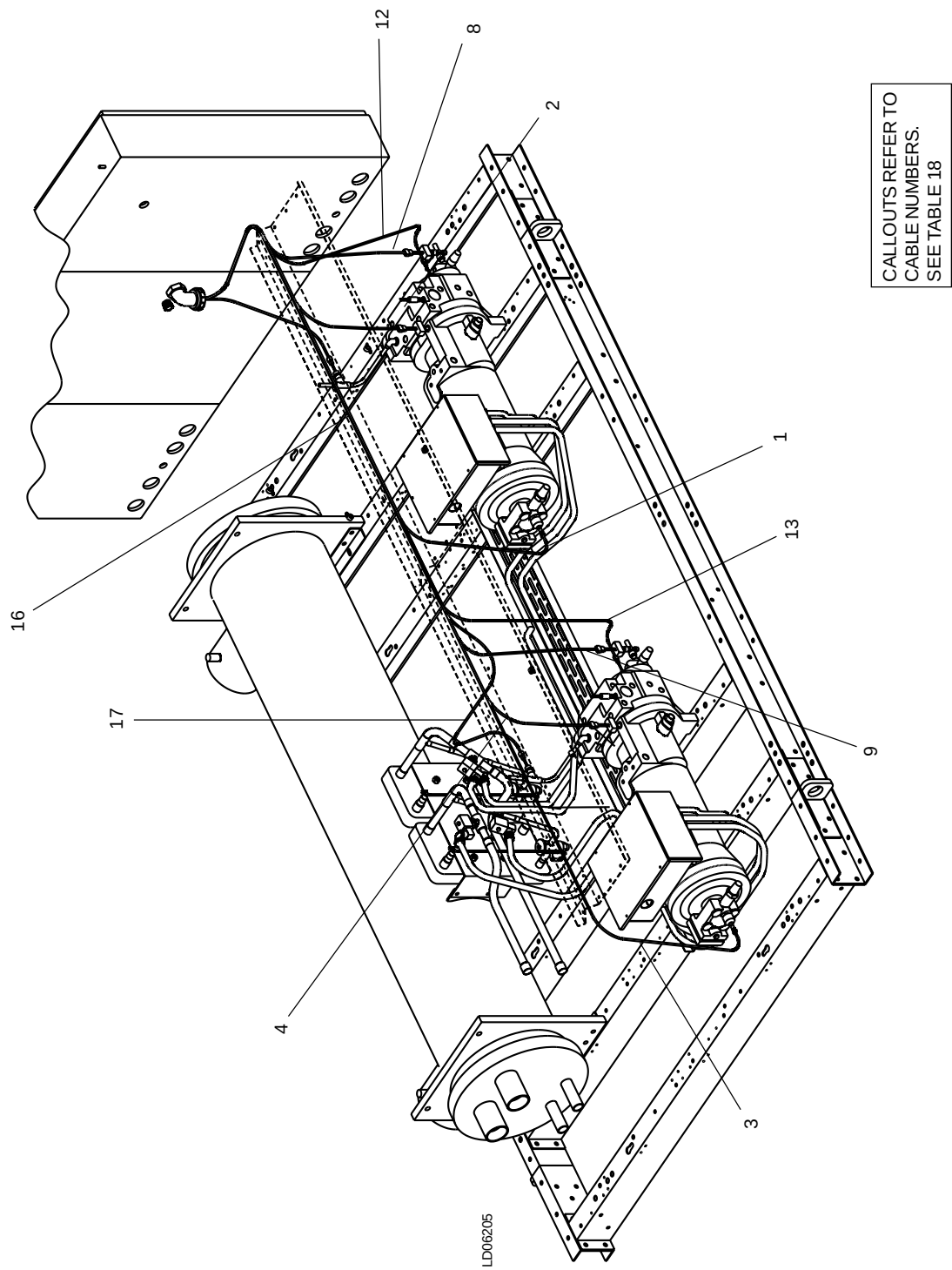


FIG. 21 – HARNESS LAYOUT (REF. TABLE 18, PAGE 35)

Micro Panel

SENSOR HARNESS (CONT'D)

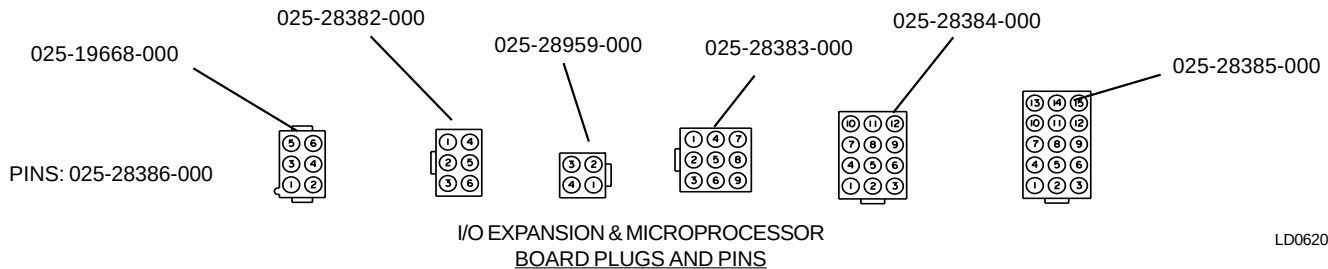
CHILLER MODELS YCAS0110 AND YCAS0120

TABLE 19 – SENSOR HARNESS WIRING (SEE FIGS. 22, 23 AND 24, PAGES 38, 39 AND 40)

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		
		DRAIN	2		
	2	RED	5	SYS #1 OIL PRESSURE	375-33776-403
		BLK	3		
		WHT	8		
MICRO P14	3	DRAIN	9	SYS #2 SUCTION PRESSURE	375-33776-402
		RED	4		
		BLK	1		
		WHT	7		
	4	DRAIN	2	SYS #2 OIL PRESSURE	375-33776-404
		RED	5		
		BLK	3		
MICRO P11	5	WHT	8	LEAVING CHILLED WATER	375-33776-415
		BLK	5		
		DRAIN	2		
	6	RED	9	ENTERING CHILLED WATER	375-33776-416
		BLK	6		
		DRAIN	3		
MICRO P15	8	RED	5	SYS #1 DISCH. PRESSURE	375-33776-405
		BLK	3		
		WHT	8		
		DRAIN	9		
	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	DRAIN	1	SYS #2 SUCTION TEMP.	375-33776-412
		RED	2		
		BLK	4		
I/O P10	16	DRAIN	3	SYS #1 OIL TEMP.	375-33776-421
		RED	5		
		BLK	6		
	17	DRAIN	2	SYS #2 OIL TEMP.	375-33776-422
		RED	4		
		BLK	7		
I/O P8	12	DRAIN	1	SYS #1 DISCH. TEMP.	375-33776-413
		RED	5		
		BLK	6		
	13	DRAIN	3	SYS #2 DISCH. TEMP.	375-33776-414
		RED	2		
		BLK	4		
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		

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)



LD06206

FIG. 22 – SENSOR HARNESS PLUGS AND PINS

SENSOR HARNESS (CONT'D)
CHILLER MODELS YCAS0110 AND YCAS0120

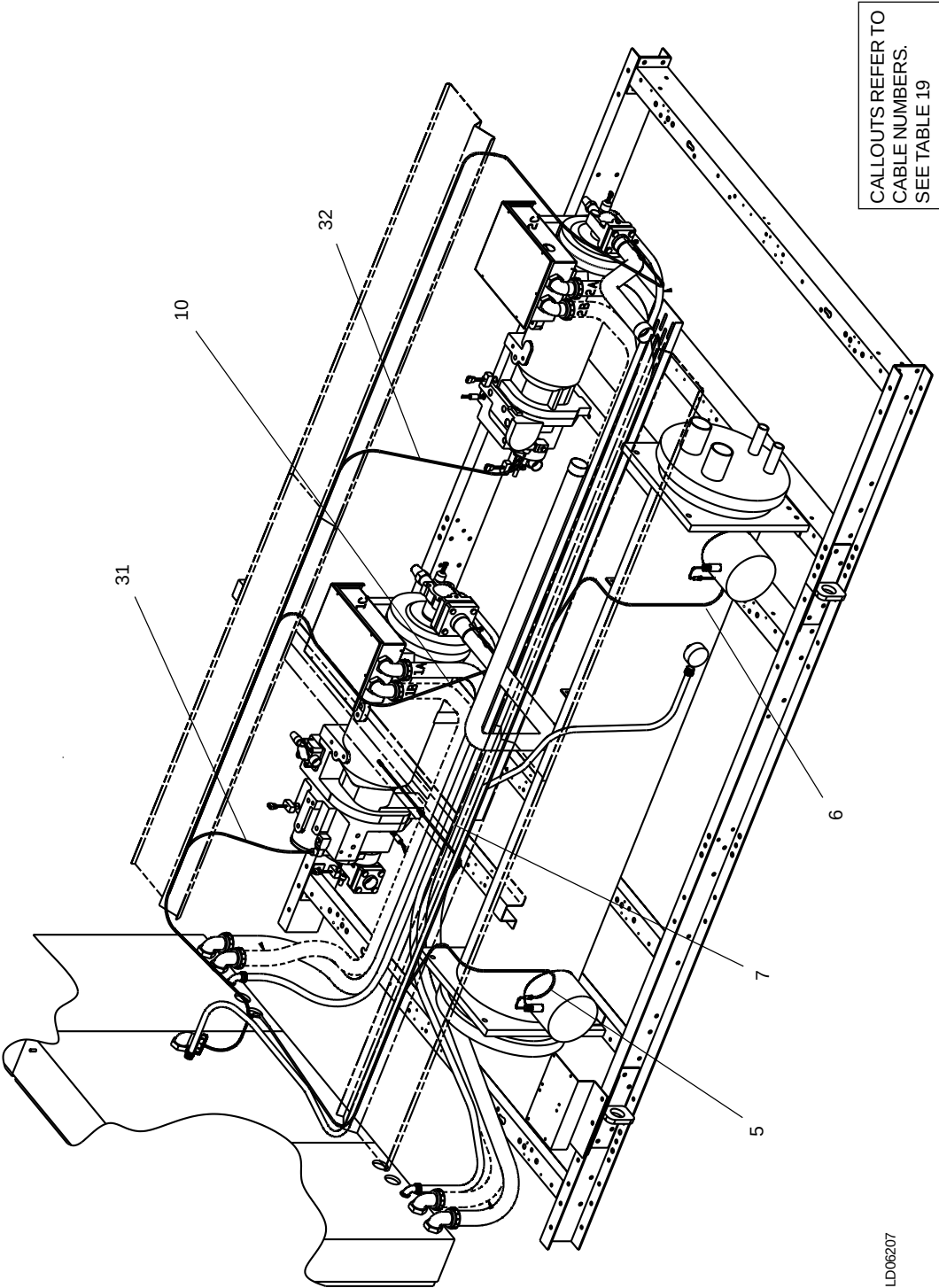


FIG. 23 – HARNESS LAYOUT (REF. TABLE 19, PAGE 38)

Micro Panel

SENSOR HARNESS (CONT'D) **CHILLER MODELS YCAS0110 AND YCAS0120**

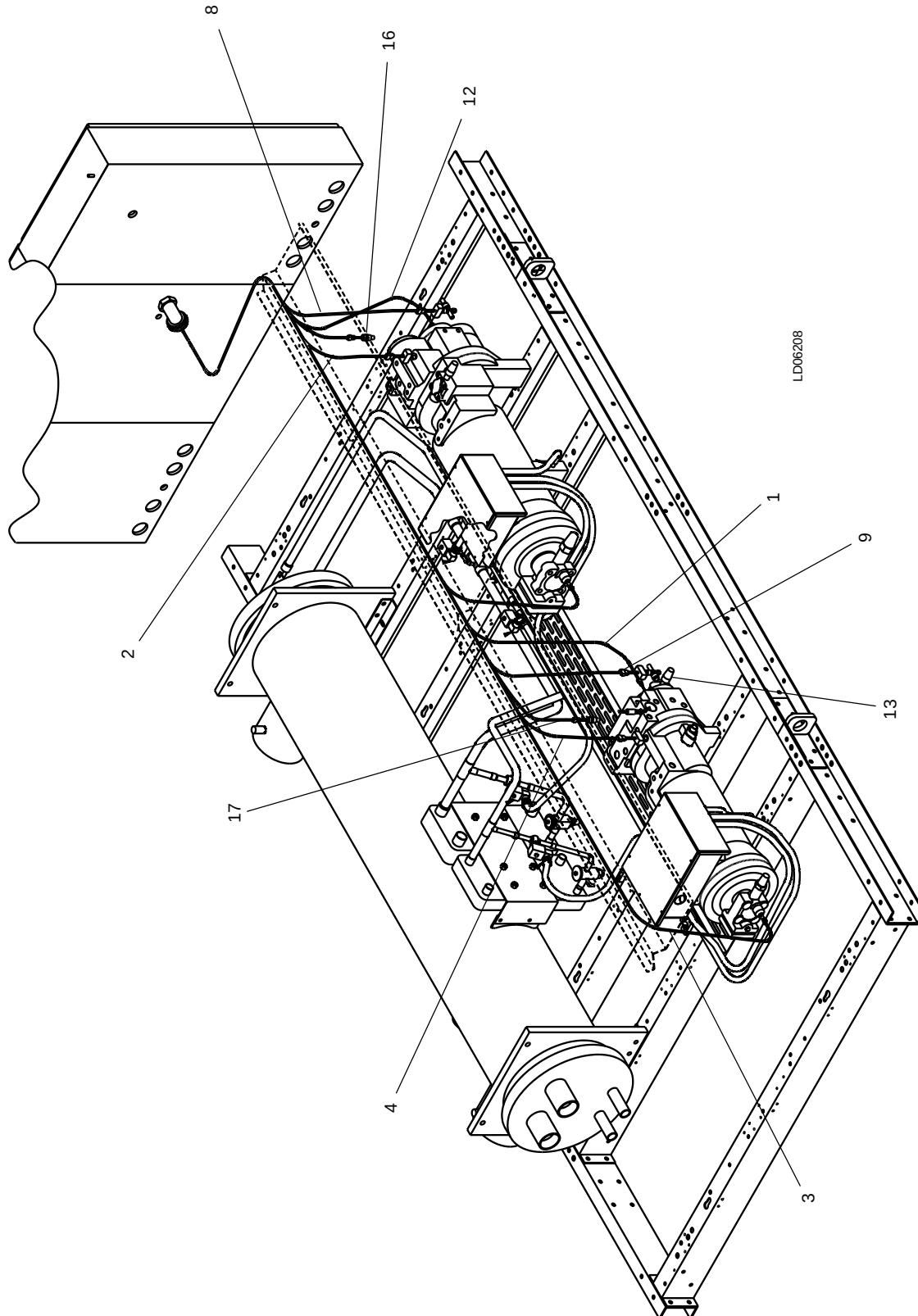


FIG. 24 – HARNESS LAYOUT (REF. TABLE 19, PAGE 38)

SENSOR HARNESS - REMOTE COOLER

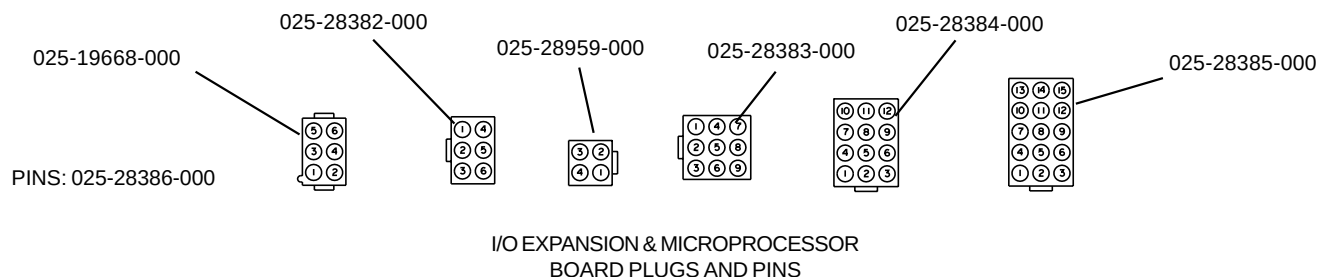
CHILLER MODELS YCAS0090, YCAS0100, YCAS0110 AND YCAS0120

TABLE 20 – SENSOR WIRING (SEE FIGS. 25, 26 AND 27, PAGES 41, 42 AND 43)

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		
		DRAIN	2		
	2	RED	5	SYS #1 OIL PRESSURE	375-33776-403
		BLK	3		
		WHT	8		
		DRAIN	9		
MICRO P14	3	RED	4	SYS #2 SUCTION PRESSURE	375-33776-402
		BLK	1		
		WHT	7		
		DRAIN	2		
	4	RED	5	SYS #2 OIL PRESSURE	375-33776-404
		BLK	3		
		WHT	8		
		DRAIN	9		
MICRO P11	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		
		DRAIN	9		
	9	RED	4	SYS #2 DISCH. PRESSURE	375-33776-406
		BLK	1		
		WHT	7		
		DRAIN	2		
I/O P10	16	RED	4	SYS #1 OIL TEMP.	375-33776-411
		BLK	7		
		DRAIN	3		
	17	RED	5	SYS #2 OIL TEMP.	375-33776-412
		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 #2 SLIDE VALVE	375-33776-424
		BLK (50)	2		
		DRAIN	6		

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)



LD06209

FIG. 25 – SENSOR HARNESS PLUGS AND PINS

SENSOR HARNESS - REMOTE COOLER (CONT'D)
CHILLER MODELS YCAS0090, YCAS0100, YCAS0110 AND YCAS0120

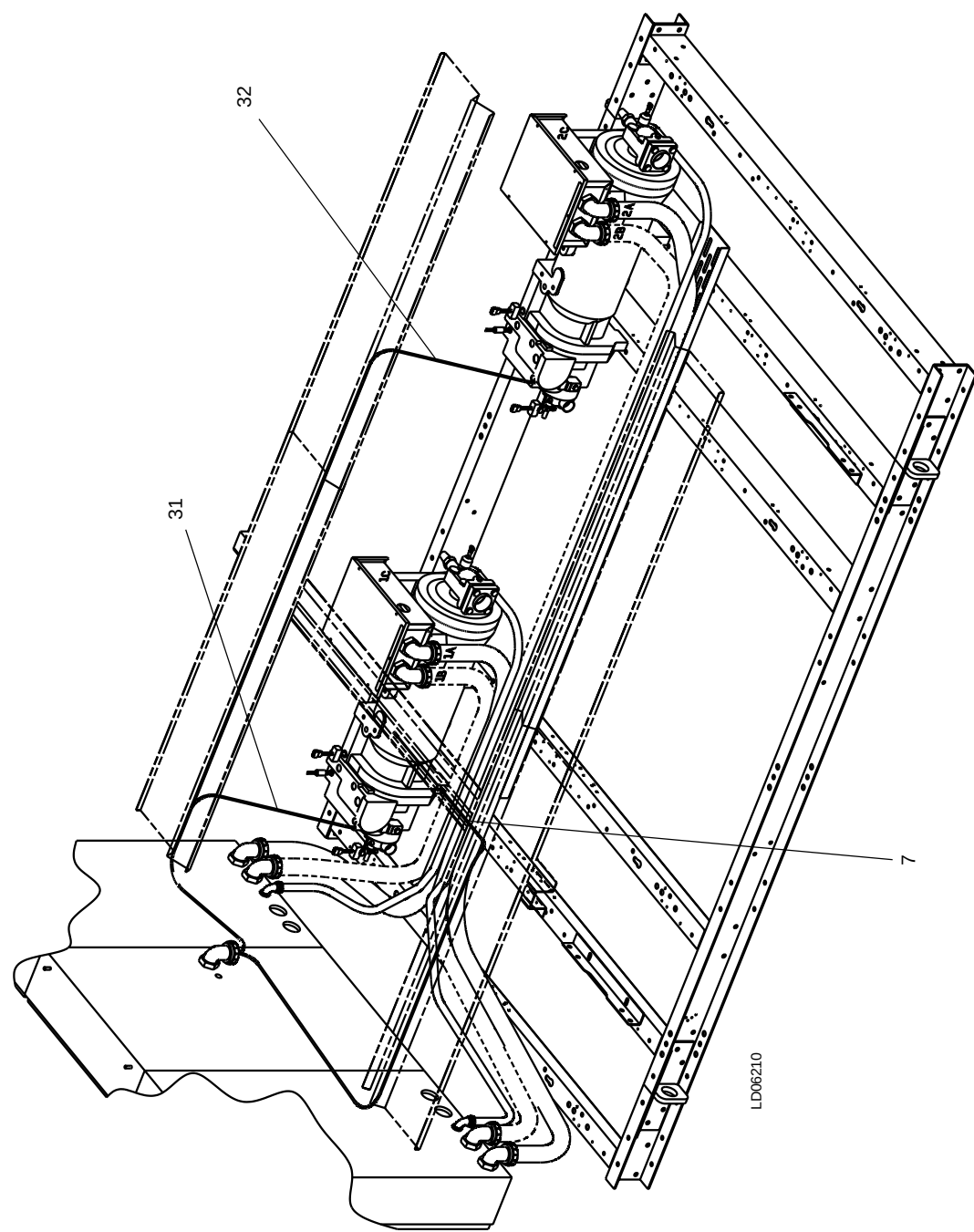


FIG. 26 – HARNESS LAYOUT (REF. TABLE 20, PAGE 41)

Micro Panel

SENSOR HARNESS - REMOTE COOLER (CONT'D)
CHILLER MODELS YCAS0090, YCAS0100, YCAS0110 AND YCAS0120

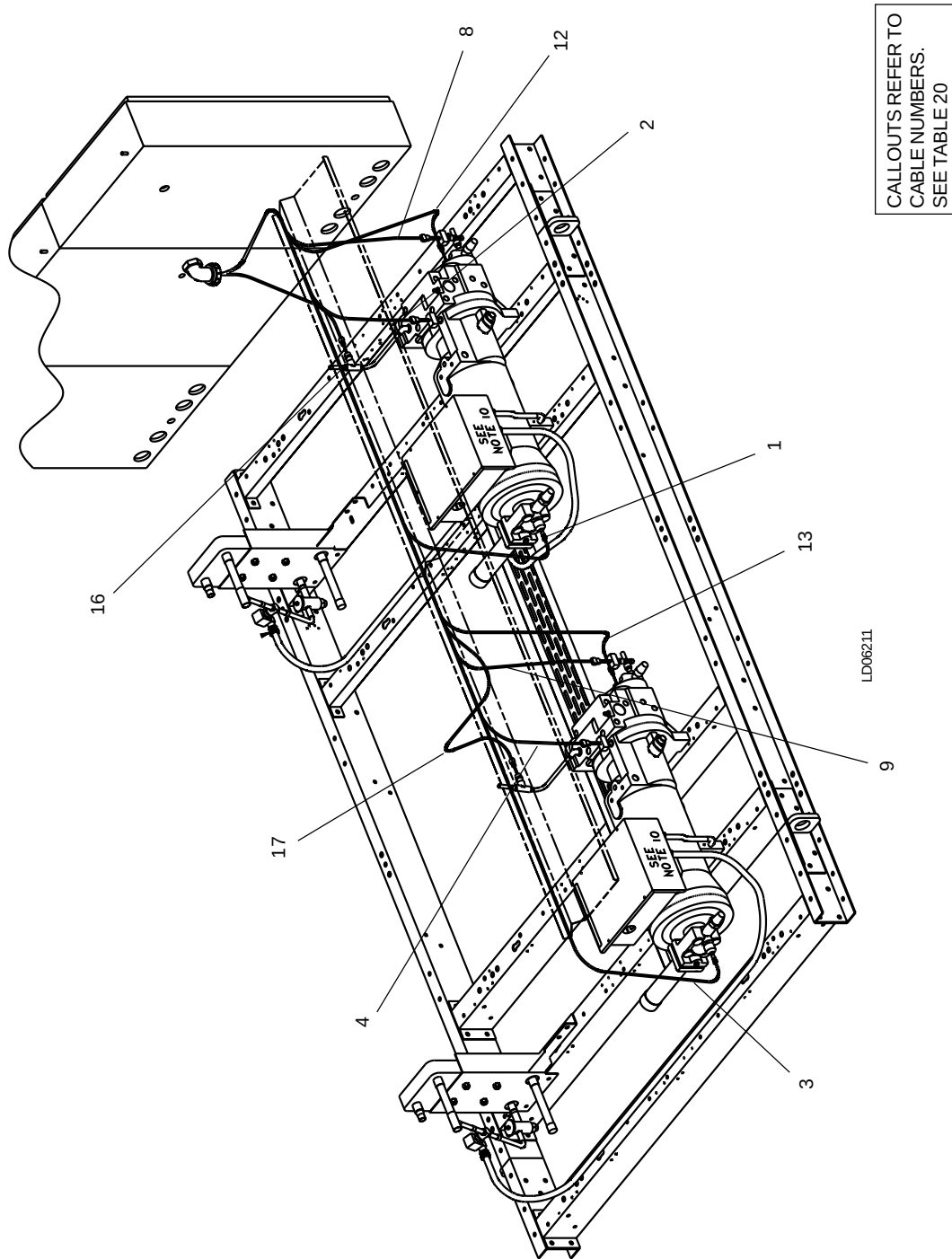


FIG. 27 – HARNESS LAYOUT (REF. TABLE 20, PAGE 41)

Micro Panel

TRANSDUCERS AND TEMPERATURE SENSORS

TABLE 21 – TRANSDUCERS AND TEMPERATURE SENSORS (SEE FIG. 28, PAGE 45)

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)

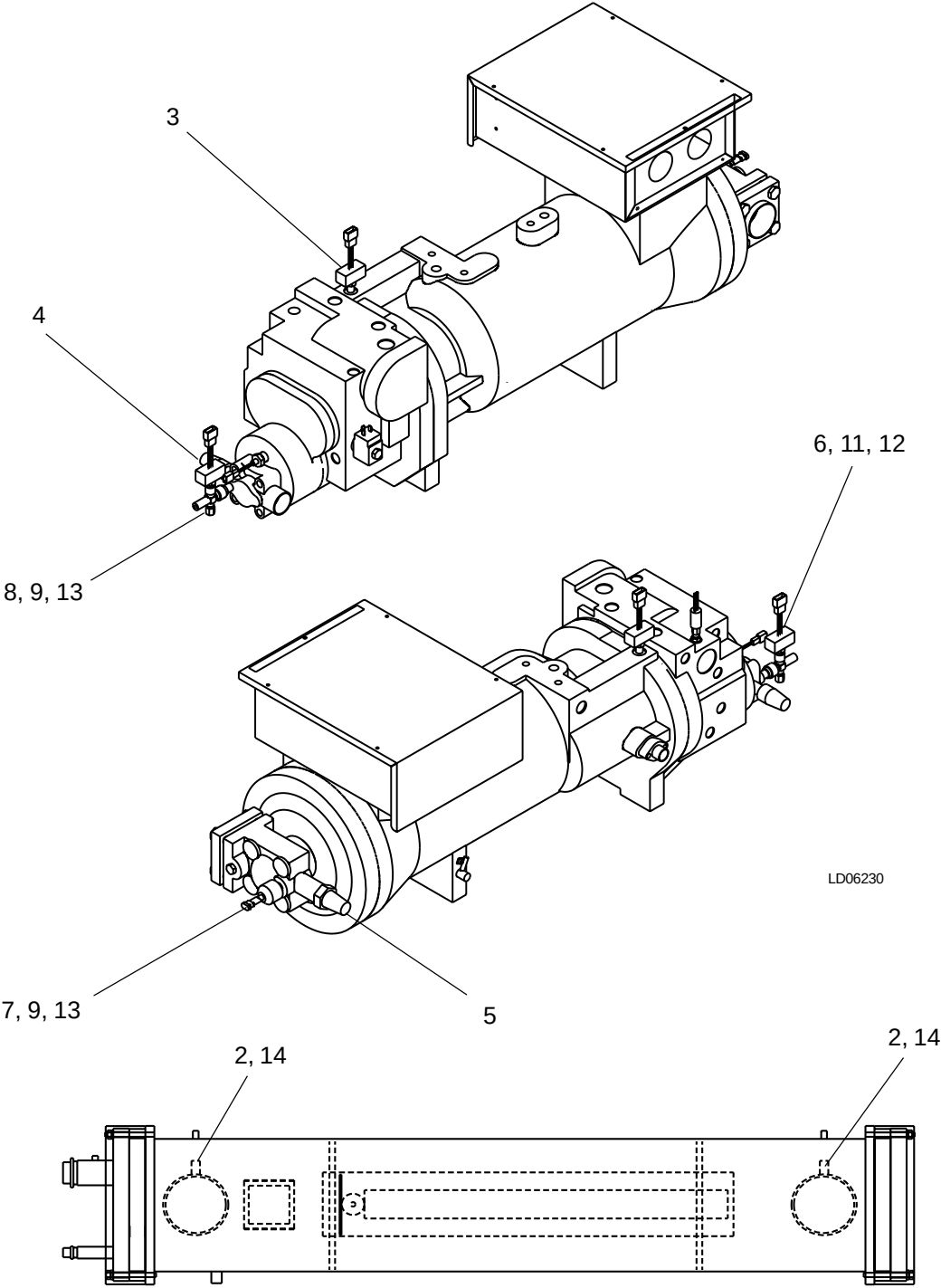


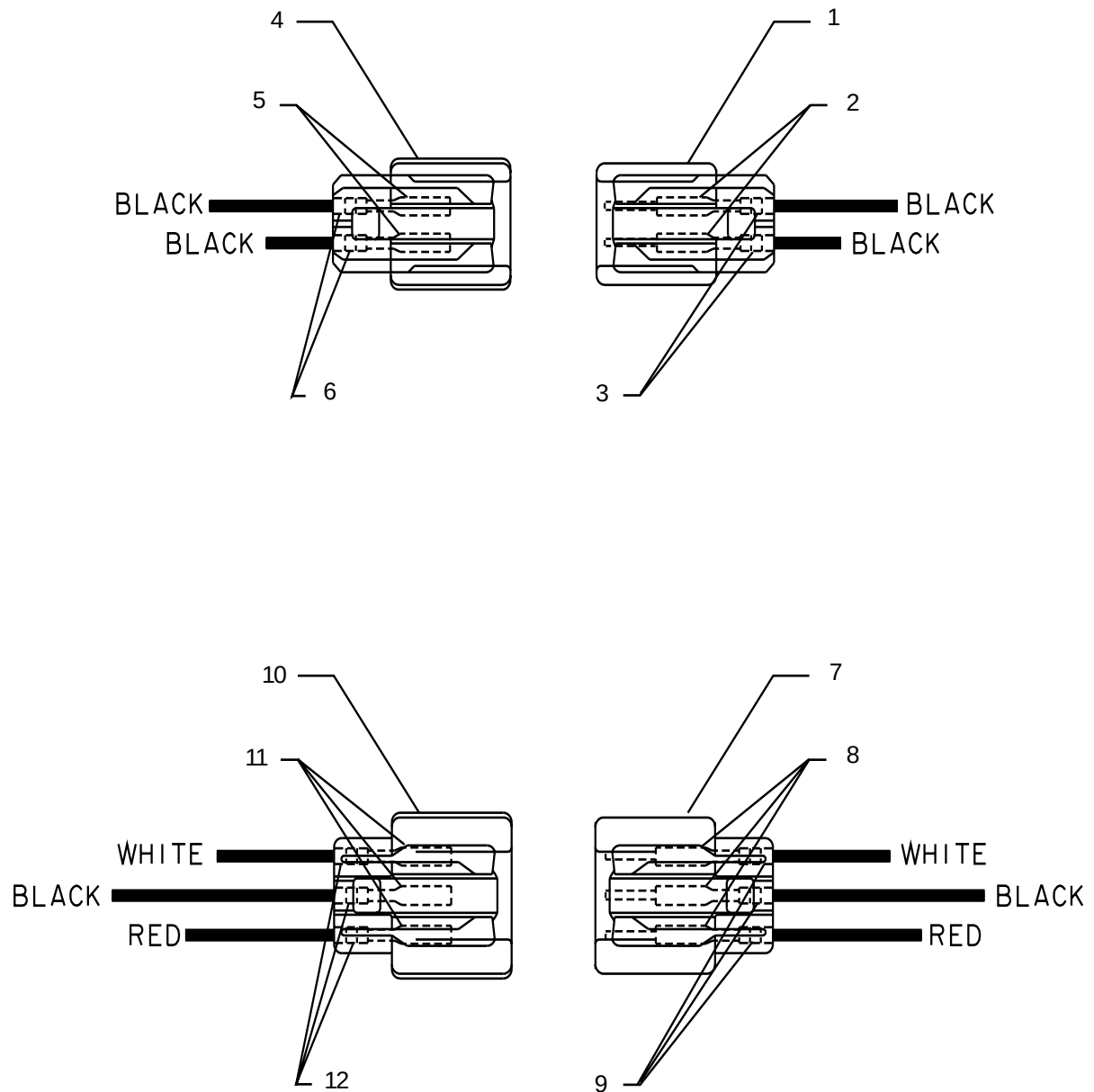
FIG. 28 – TRANSDUCERS AND TEMPERATURE SENSORS (REF. TABLE 21, PAGE 44)

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

**TABLE 22 – TRANSDUCER, TEMPERATURE SENSOR AND WIRE HARNESS
CONNECTOR - FIELD REPLACEMENT PART NUMBERS - (SEE FIG. 29, PAGE 47)**

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. 29 – TRANSDUCER, SENSOR AND WIRE HARNESS CONNECTORS - FIELD REPLACEMENT
(REF. TABLE 22, PAGE 46)

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:

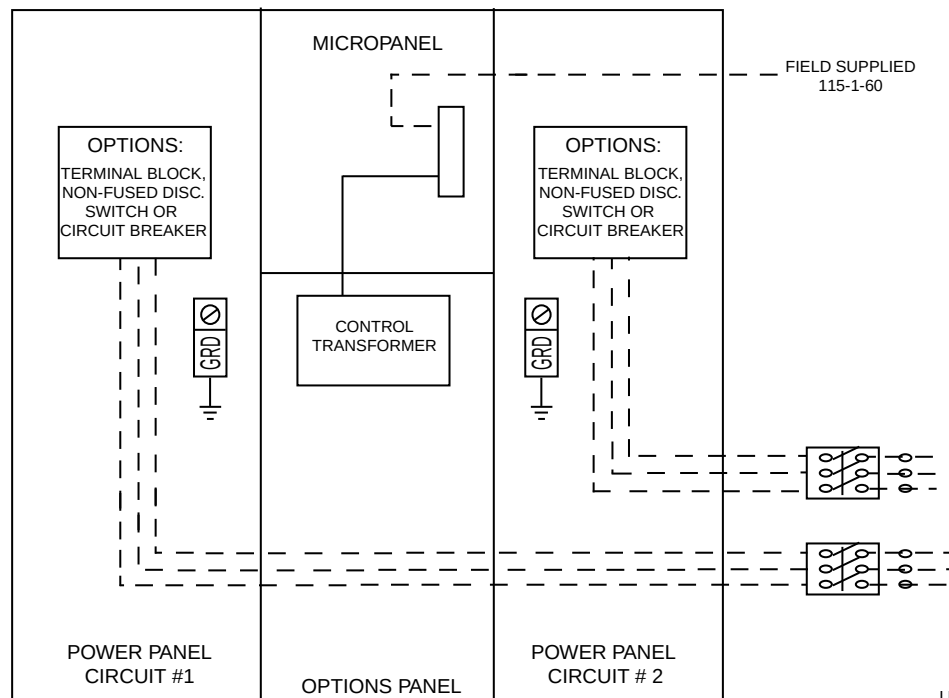
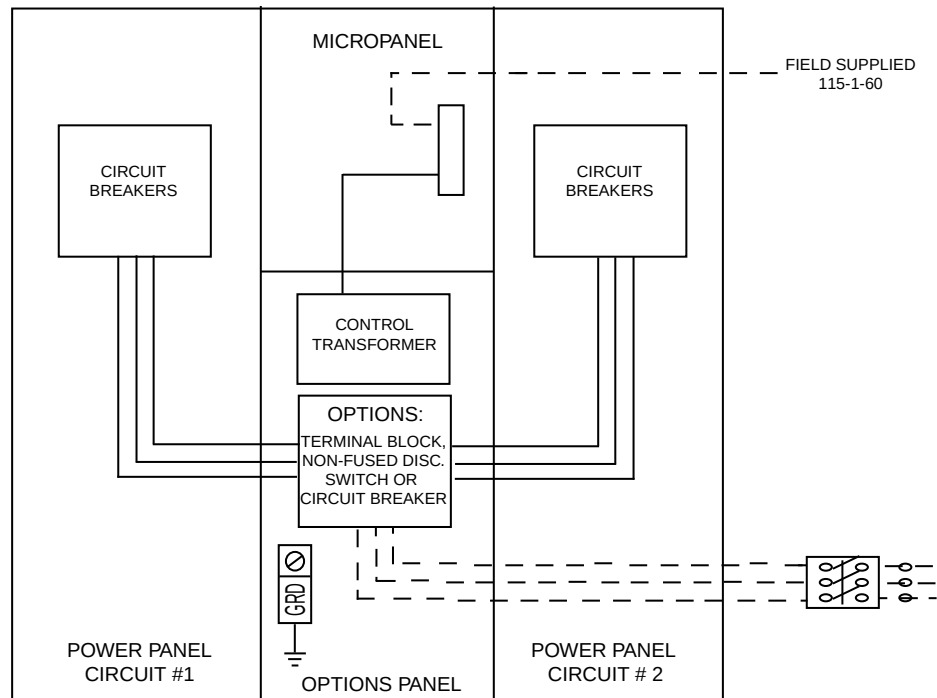
1. TERMINAL BLOCKS -
2. CIRCUIT BREAKER SWITCH -
3. NF (Non Fused) DISCONNECT SWITCH -

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

POWER PANEL COMPONENTS ACROSS-THE-LINE

TABLE 23– POWER PANEL COMPONENTS (SEE FIG. 31, PAGE 52)

ITEM NO.	VOLTAGE	DESCRIPTION	TYPE	SYSTEM 1	SYSTEM 2
1A, 1B	YCAS0090 - 17	Contactor		024-31643-000	024-31643-000
	- 28			024-31638-000	024-31638-000
	- 40			024-26577-000	024-26577-000
	- 46			024-31603-000	024-31603-000
	- 58			024-31640-000	024-31640-000
1A, 1B	YCAS0100 - 17	Contactor		024-31643-000	024-31643-000
	- 28			024-31638-000	024-31638-000
	- 40			024-26577-000	024-26577-000
	- 46			024-31639-000	024-31639-000
	- 58			024-31603-000	024-31603-000
1A, 1B	YCAS0110 - 17	Contactor		024-31643-000	024-31644-000
	- 28			024-31638-000	024-31643-000
	- 40			024-31639-000	024-26577-000
	- 46			024-31603-000	024-26577-000
	- 58			024-31640-000	024-31639-000
1A, 1B	YCAS0120 - 17	Contactor		024-31643-000	024-31644-000
	- 28			024-31638-000	024-31643-000
	- 40			024-31639-000	024-31642-000
	- 46			024-31603-000	024-26577-000
	- 58			024-31640-000	024-31639-000
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 48 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

^s Recommended Spare Part

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

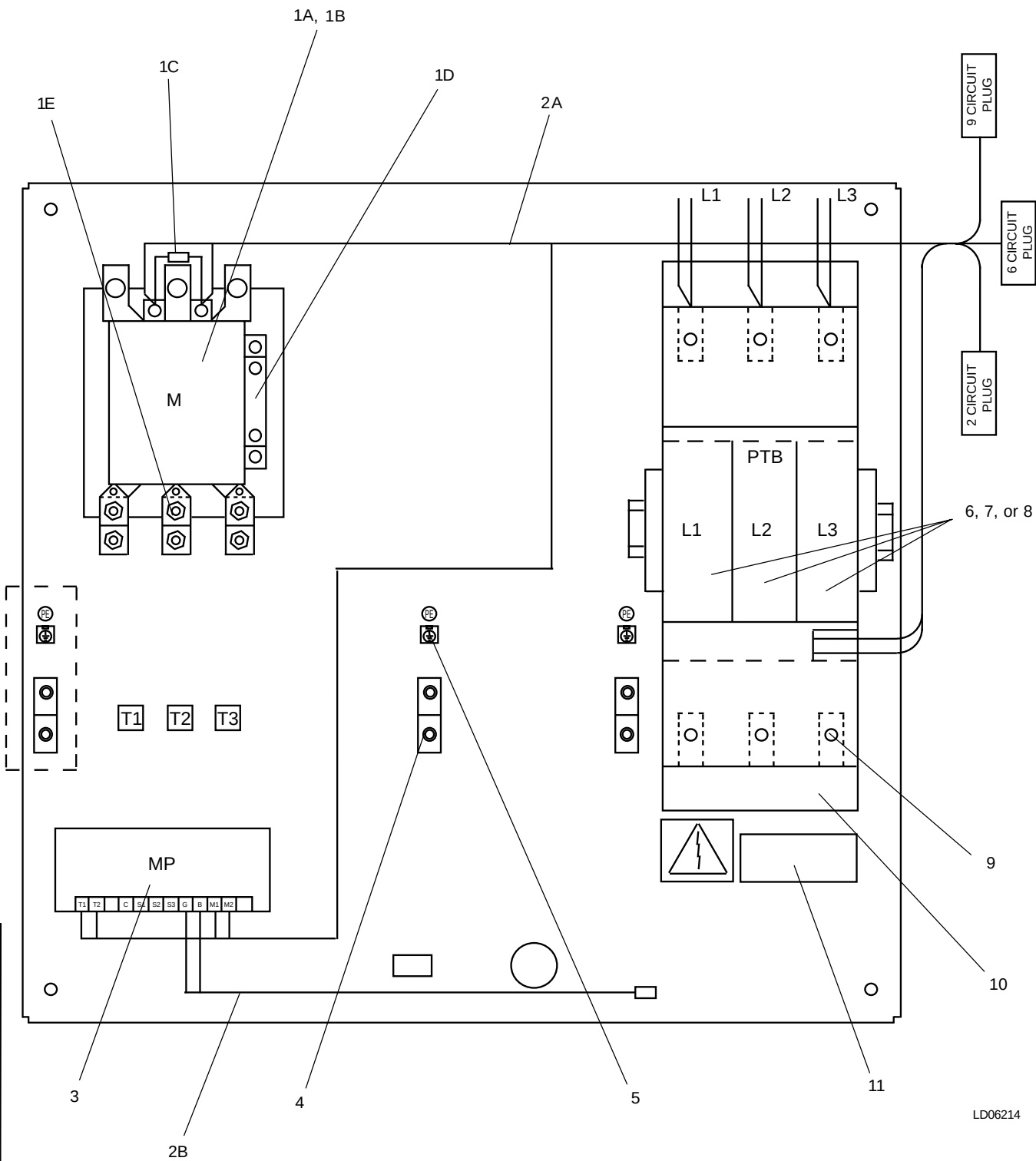
TABLE 23 (CONT'D) – POWER PANEL COMPONENTS (SEE FIG. 31, PAGE 52)

ITEM NO.	VOLTAGE	DESCRIPTION	TYPE	SYSTEM 1	SYSTEM 2
7	See page 48 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 48 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 48 for configuration	Aux. Circuit Breaker	K5AS	024-31646-000	024-31646-000
			K7AS	024-31648-000	024-31648-000

TABLE 24 – POWER PANEL COMPONENTS - LUG KITS – (SEE FIG. 31, PAGE 52)

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

ACROSS-THE-LINE POWER PANEL



LD06214

FIG. 31 – ACROSS-THE-LINE POWER PANEL LAYOUT (REF. TABLES 23 AND 24, PAGES 50 AND 51)

POWER PANEL COMPONENTS WYE-DELTA

TABLE 23A – POWER PANEL COMPONENTS (REF. FIG. 32, PAGE 55)

ITEM NO.	MODEL / VOLTAGE	DESCRIPTION	TYPES	SYSTEM 1	SYSTEM 2
1A, 1B	YCAS0090 - 17	Contactor		024-26577-000	024-26577-000
	- 28			024-31602-000	024-31602-000
	- 40			024-31639-000	024-31639-000
	- 46			024-31636-000	024-31636-000
	- 58			024-31640-000	024-31640-000
				024-31636-000	024-31636-000
				024-31602-000	024-31602-000
1A, 1B	YCAS0100 - 17	Contactor		024-26577-000	024-26577-000
	- 28			024-26577-000	024-26577-000
	- 40			024-31636-000	024-31636-000
	- 46			024-31640-000	024-31640-000
	- 58			024-31636-000	024-31636-000
				024-31602-000	024-31602-000
				024-31636-000	024-31636-000
1A, 1B	YCAS0110 - 17	Contactor		024-26577-000	024-26577-000
	- 28			-	025-31642-000
	- 40			024-31602-000	024-26577-000
	- 46			024-31639-000	-
	- 58			024-31636-000	024-31636-000
				024-31602-000	024-31603-000
				024-31636-000	024-31636-000
1A, 1B	YCAS0120 - 17	Contactor		024-26577-000	024-26577-000
	- 28			-	024-31642-000
	- 40			024-31602-000	024-26577-000
	- 46			024-31639-000	-
	- 58			024-31636-000	024-31636-000
				024-31602-000	024-31603-000
				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, 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

POWER PANEL COMPONENTS (CONT'D) WYE-DELTA

TABLE 23A (CONT'D) – POWER PANEL COMPONENTS (SEE FIG. 32, PAGE 55)

ITEM NO.	VOLTAGE	DESCRIPTION	TYPE	SYSTEM 1	SYSTEM 2
4		Ground Lug		025-34455-000	025-34455-000
5		Ground Lug		025-34085-000	025-34085-000
6		Terminal Block	UKH50 UKH95 UKH150 UKH240	025-34482-000 025-34454-000 025-34408-000 025-34405-000	025-34482-000 025-34454-000 025-34408-000 025-34405-000
7	See page 48 for configuration	Circuit Breaker	S3H125TW S3H150TW S3H225TW S4H250BW S5H400BW	024-31844-000 024-31649-000 024-31819-000 025-34419-000 024-34424-000	024-31844-000 024-31649-000 024-31819-000 025-34419-000 025-34424-000
8	See page 48 for configuration	NF Disc Switch	S3H150DW S4H250DW S5H400DW	024-25575-000 024-25565-000 024-25564-000	024-25575-000 024-25565-000 024-25564-000
10		Handle Kit		025-34417-000	025-34417-000
11	See page 48 for configuration	Aux. Circuit Breaker	K5AS K7AS	024-31646-000 024-31648-000	024-31646-000 024-31648-000

TABLE 24A – POWER PANEL COMPONENTS - LUG KITS – (SEE FIG. 32, PAGES 55)

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

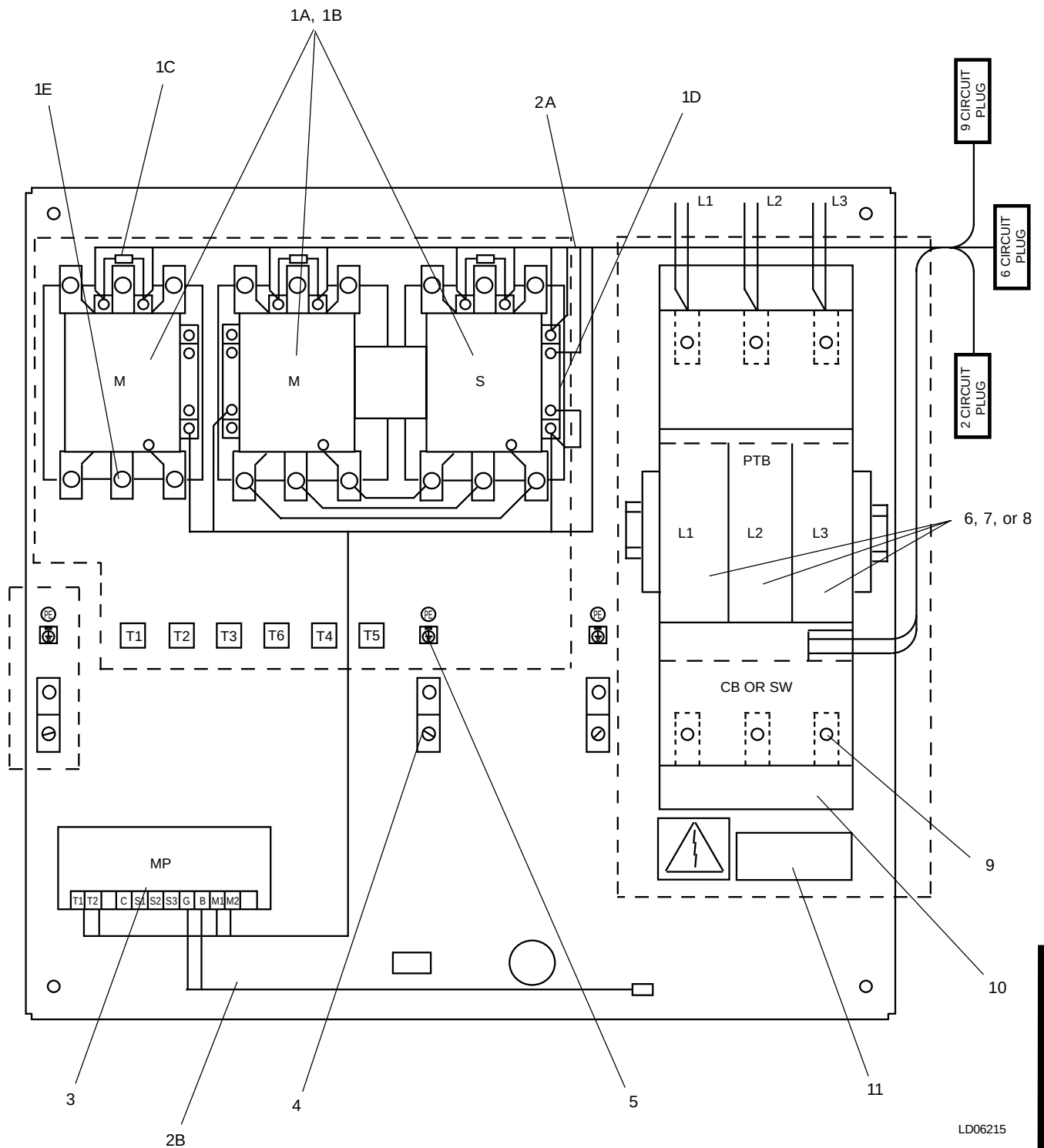


FIG. 32 – WYE-DELTA POWER PANEL TYPICAL LAYOUT (REF. TABLES 23A AND 24A, PAGES 53 AND 54)

3 FAN CONTACTOR PANEL COMPONENTS

TABLE 25 – 3 FAN CONTACTOR PANEL COMPONENTS – YCAS F (SEE FIG. 33, PAGE 57)

ITEM NO.	VOLTAGE	DESCRIPTION	TYPE	ADJUSTMENT	PART NUMBER
2A		Surge Suppressor			031-00808-000
2B	YCAS0090 - 17	Contactor	A12		025-34445-000
	- 28		A12		025-34445-000
	- 40		A9		025-34448-000
	- 46		A9		025-34448-000
	- 58		A9		025-34448-000
2B	YCAS0100 - 17	Contactor	A12		025-34445-000
	- 28		A12		025-34445-000
	- 40		A9		025-34448-000
	- 46		A9		025-34448-000
	- 58		A9		025-34448-000
2B	YCAS0110 - 17	Contactor	A16		024-31830-000
	- 28		A12		025-34445-000
	- 40		A9		025-34448-000
	- 46		A9		025-34448-000
	- 58		A12		025-34445-000
2B	YCAS0120 - 17	Contactor	A16		024-31830-000
	- 28		A12		025-34445-000
	- 40		A9		025-34448-000
	- 46		A9		025-34448-000
	- 58		A12		025-34445-000
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		Contactor 600V			025-31635-000
5		End Clamp			025-34439-000
6		10AWG BLK 600V 1			025-11585-000
7		12-10AWG #8 Ring			025-34091-000
		Din Rail, Slotted			025-29167-000
8		Label, Caution			035-05548-000

3 FAN CONTACTOR PANEL COMPONENTS (CONT'D)

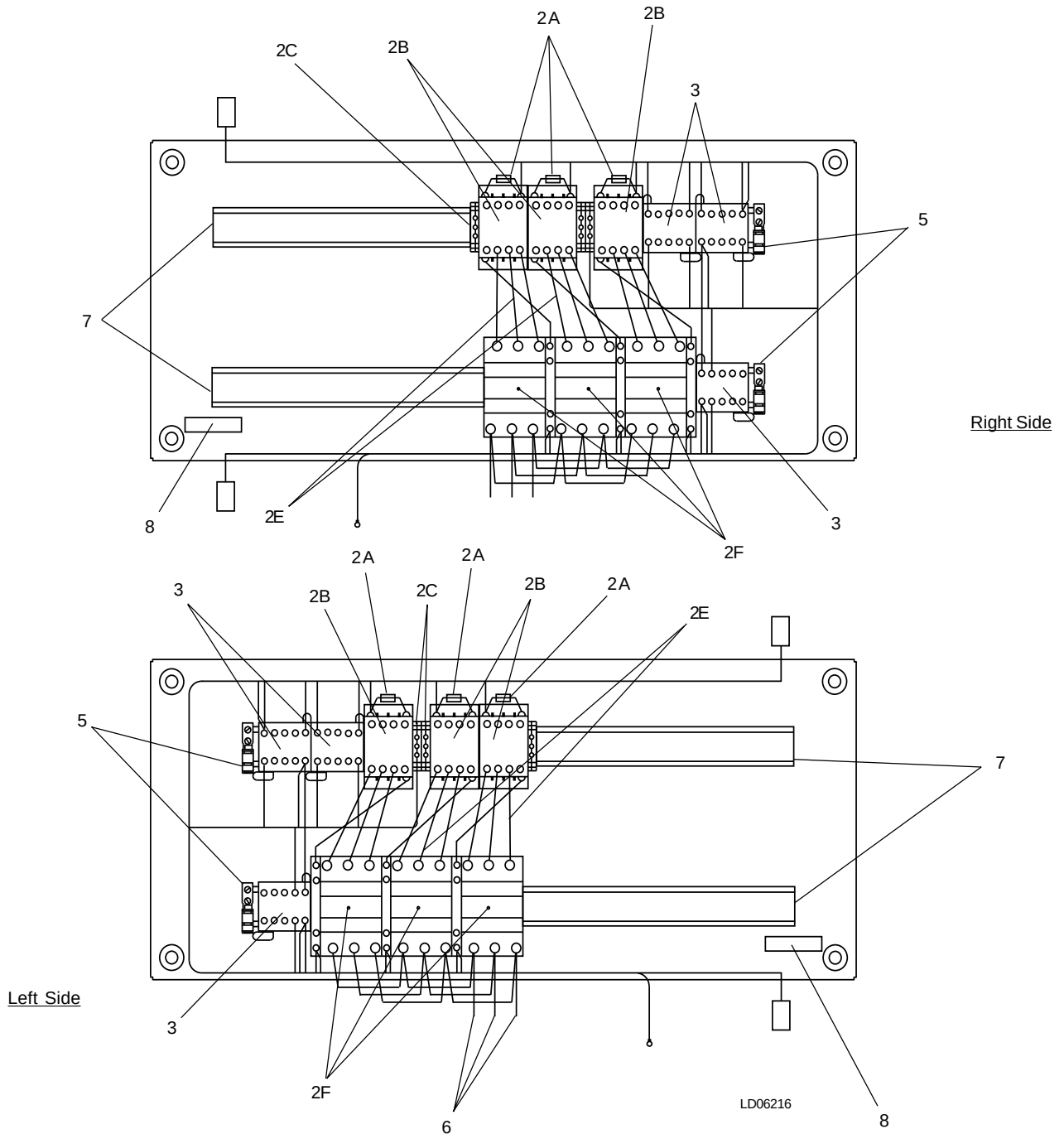


FIG. 33 – 3 FAN CONTACTOR PANEL COMPONENTS– YCAS F (REF. TABLE 25, PAGE 56)

OPTIONS PANEL COMPONENTS

TABLE 26 – OPTIONS PANEL COMPONENTS (SEE FIG. 34 AND 35, PAGES 59 AND 60)

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

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

OPTIONS PANEL COMPONENTS (CONT'D)

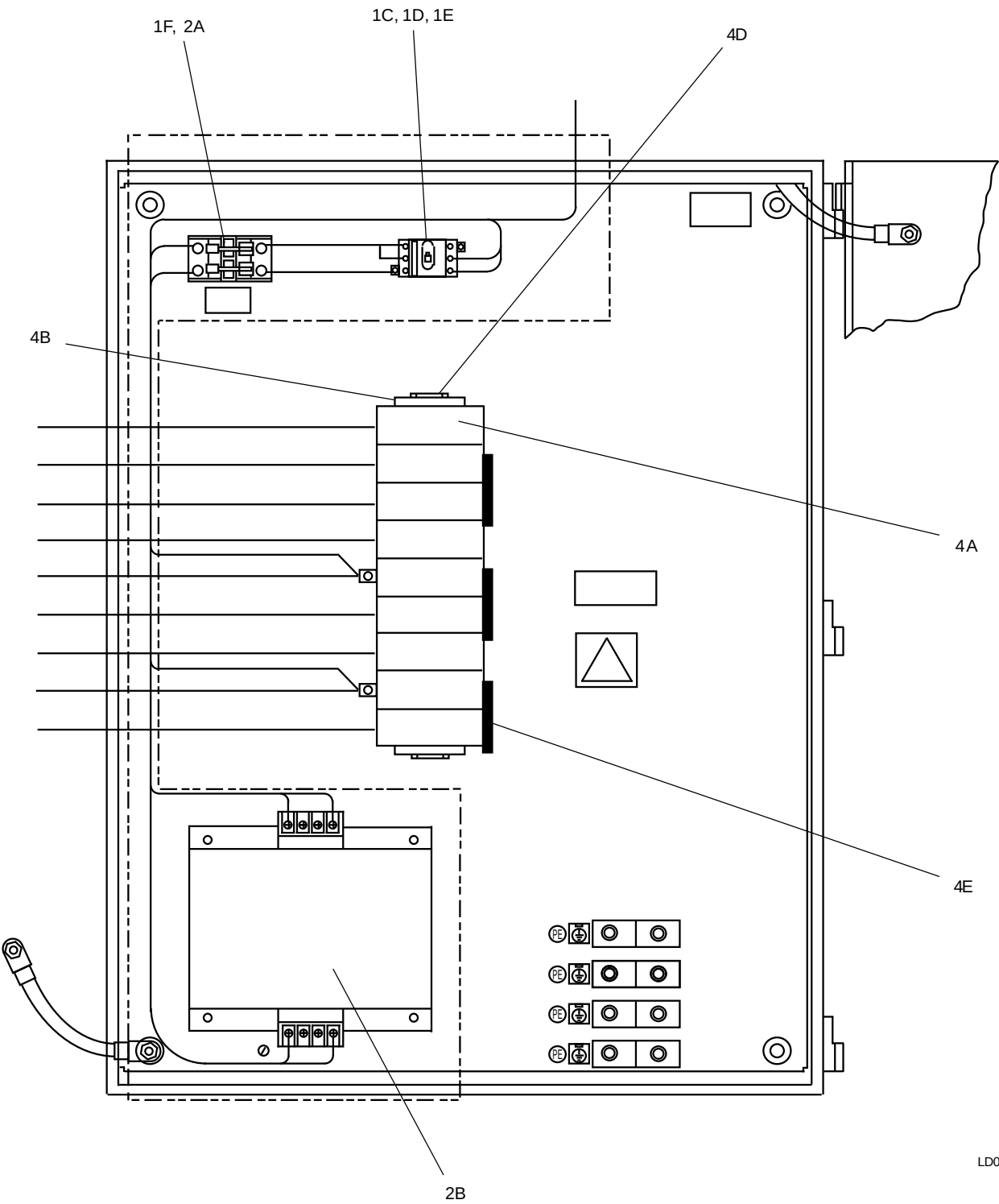
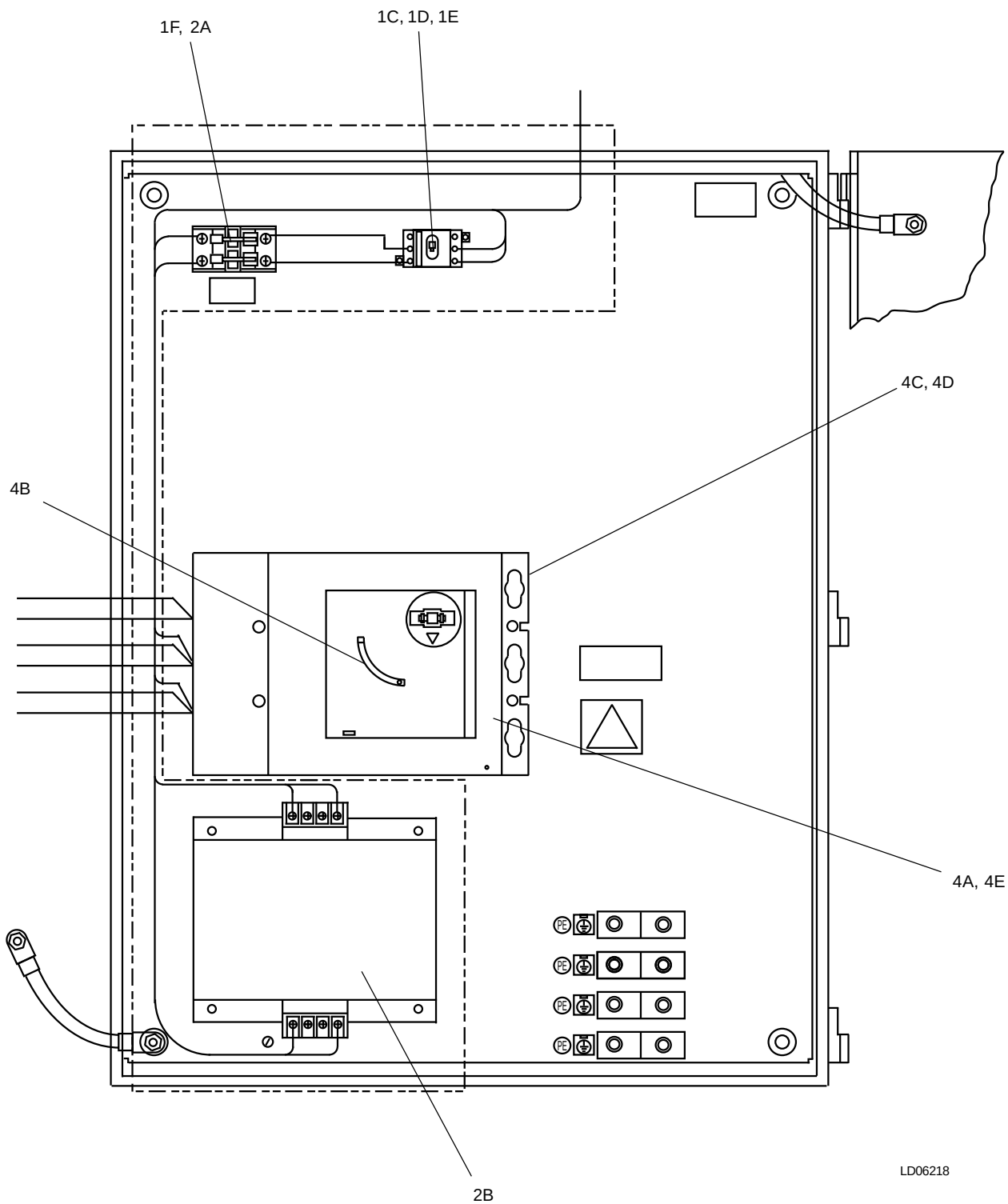


FIG. 34 – OPTIONS PANEL WITH POWER TERMINAL BLOCK OPTION (REF. TABLE 26, PAGE 58)

OPTIONS PANEL COMPONENTS (CONT'D)



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FIG. 35 – OPTIONS PANEL WITH CIRCUIT BREAKER OR NON-FUSED DISCONNECT SWITCH OPTION (REF. TABLE 26, PAGE 58)

YCAS CHILLER – OPTIONS KITS

TABLE 27 – FIELD INSTALLABLE OPTIONS KIT TABLE

MODEL NUMBER YCAS - F	VIBRATION ISOLATORS SPRING 1" DEFLEC* CU/AL	VIBRATION ISOLATORS SPRING 2" (SEISMIC) CU/AL	VIBRATION ISOLATOR PAD 1/2" DEFLEC CU/AL	VIBRATION ISOLATORS SPRING 1" DEFLEC* CU/CU	VIBRATION ISOLATORS SPRING 2" (SEISMIC) CU/CU	VIBRATION ISOLATOR PAD 1/2" DEFLEC CU/CU
MODEL NO.	029-22941	029-22941	029-22941	029-22941	029-22941	029-22941
0090	-101	-201	-001	-151	-251	-007
0100	-102	-201	-002	-151	-251	-007
0110	-103	-202	-003	-152	-252	-008
0120	-103	-202	-003	-152	-252	-008

* Note Tubing and Fin Coil Material

TABLE 27 (CONT'D) – FIELD INSTALLABLE OPTIONS KIT TABLE

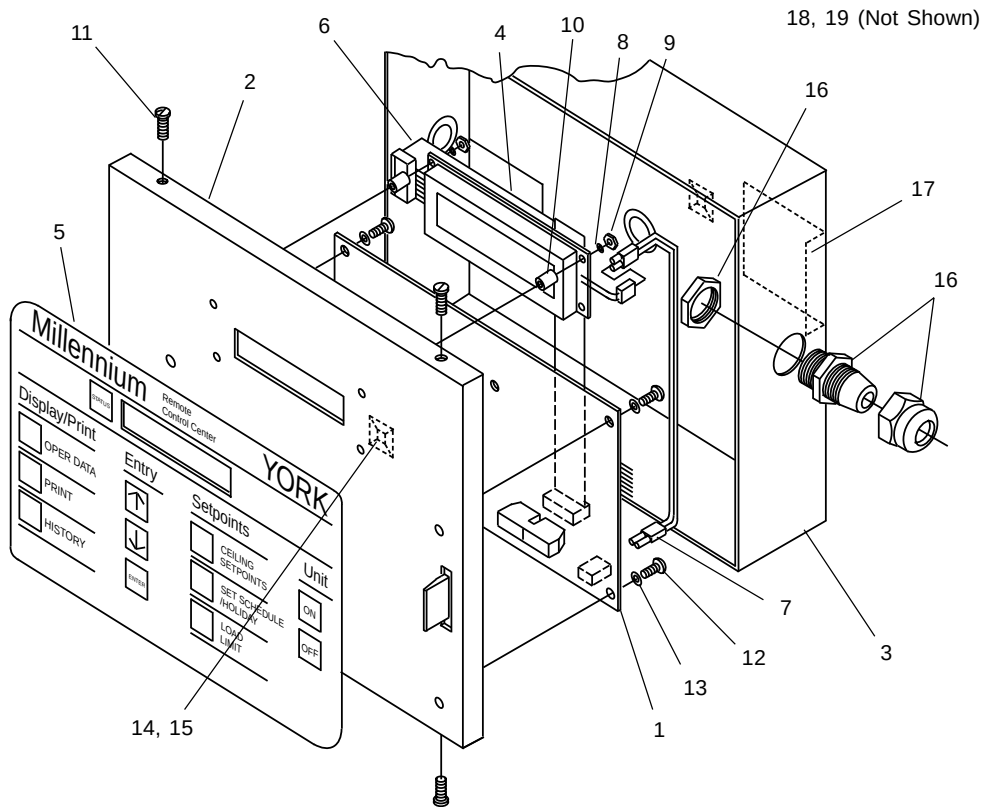
MODEL NUMBER YCAS - F	WIRE ENCLOSURE FULL UNIT	LOUVERED ENCLOSURE FULL UNIT	WIRE/ LOUVERED ENCLOSURE FULL UNIT	LOUVERED ENCLOSURE CONDENSER ONLY	BAS / EMS INTERFACE KIT	REMOTE CONTROL PANEL 60 HZ
MODEL NO.	375-29513	375-29514	375-29515	375-29516	371-02590	371-02485
0090	-105	-105	-105	-105	-102	-102
0100	-105	-105	-105	-105	-102	-102
0110	-120	-120	-120	-120	-102	-102
0120	-120	-120	-120	-120	-102	-102

TABLE 28 – REMOTE EVAPORATOR - FIELD INSTALLABLE OPTIONS KIT TABLE

MODEL NUMBER YCAS - F	VIBRATION ISOLATORS SPRING 1" DEFLEC* CU/AL	VIBRATION ISOLATORS SPRING 2" (SEISMIC) CU/AL	VIBRATION ISOLATOR PAD 1/2" DEFLEC CU/AL	VIBRATION ISOLATORS SPRING 1" DEFLEC* CU/CU	VIBRATION ISOLATORS SPRING 2" (SEISMIC) CU/CU	VIBRATION ISOLATOR PAD 1/2" DEFLEC CU/CU
MODEL NO.	029-22967	029-	029-22967	029-	029-22967	029-22967
0090	-101	22067-201	-005	22967-151	-251	-001
0100	-101	22067-201	-005	22967-151	-251	-001
0110	-102	22967-202	-006	22941-152	-252	-002
0120	-102	22967-202	-006	22941-152	-252	-002

* Note Tubing and Fin Coil Material

REMOTE CONTROL CENTER



LD06219

FIG. 36 – REMOTE CONTROL CENTER PARTS (REF. TABLE 29)

TABLE 29 – REMOTE CONTROL CENTER PARTS (SEE FIG. 36)

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
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

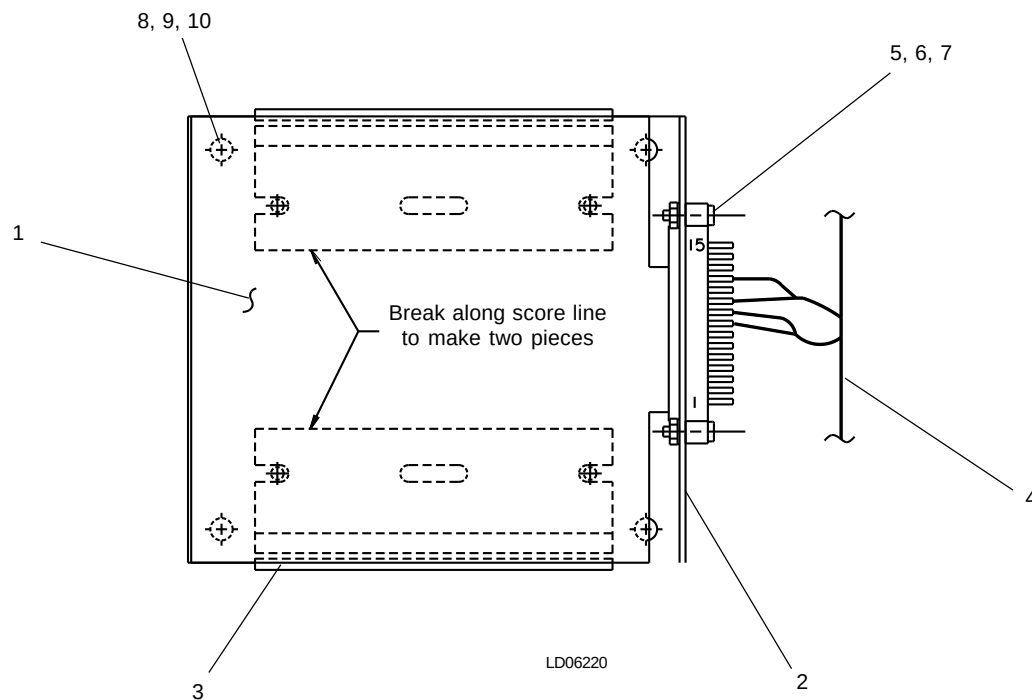


FIG. 37 – REMOTE CURRENT/TEMPERATURE RESET KIT (REF. TABLE 30)

TABLE 30 – REMOTE CURRENT/TEMPERATURE RESET KIT (SEE FIG. 37)

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 31 – 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 025-21137-000 prior to Spring 1999.

ENCLOSURE KIT OPTIONS – FULL UNIT

(Includes Top and Bottom Sections)

TABLE 32 – 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-
0090	105	105	105	105
0100	105	105	105	105
0110	120	120	120	012
0120	120	120	120	012

* Full units include top and bottom sections listed in Tables 34 - 37. Top or bottom sections may be ordered separately if desired.

ENCLOSURE KIT OPTIONS - TOP AND BOTTOM

(Full Unit, Top and Bottom Kit Numbers)

TABLE 33 – ENCLOSURE KIT OPTIONS – TOP AND BOTTOM KITS AVAILABLE SEPARATELY

FULL UNIT KIT OPTION NUMBER INCLUDES THE FOLLOWING TOP AND BOTTOM SECTION KITS			
TYPE	FULL UNIT KIT NO.	TOP KIT NO.	BOTTOM KIT NO.
WIRE	375-29513-105	375-29569-100 (FIG. 38)	375-29569-101 (FIG. 39)
WIRE	375-29513-120	375-29569-120 (FIG. 38)	375-29081-121 (FIG. 39)
LOUVER	375-29514-105	375-29571-100 (FIG. 40)	375-29571-101 (FIG. 41)
LOUVER	375-29514-120	375-29571-120 (FIG. 40)	375-29080-121 (FIG. 41)
W/L	375-29515-105	375-29571-100	375-29569-101
W/L	375-29515-120	375-29571-120	375-29081-121
LOUVER	375-29516-105	375-29571-100	N/A
LOUVER	375-29516-012	375-29571-120	N/A

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

WIRE ENCLOSURE TOP SECTION SPARE PARTS BREAKDOWN

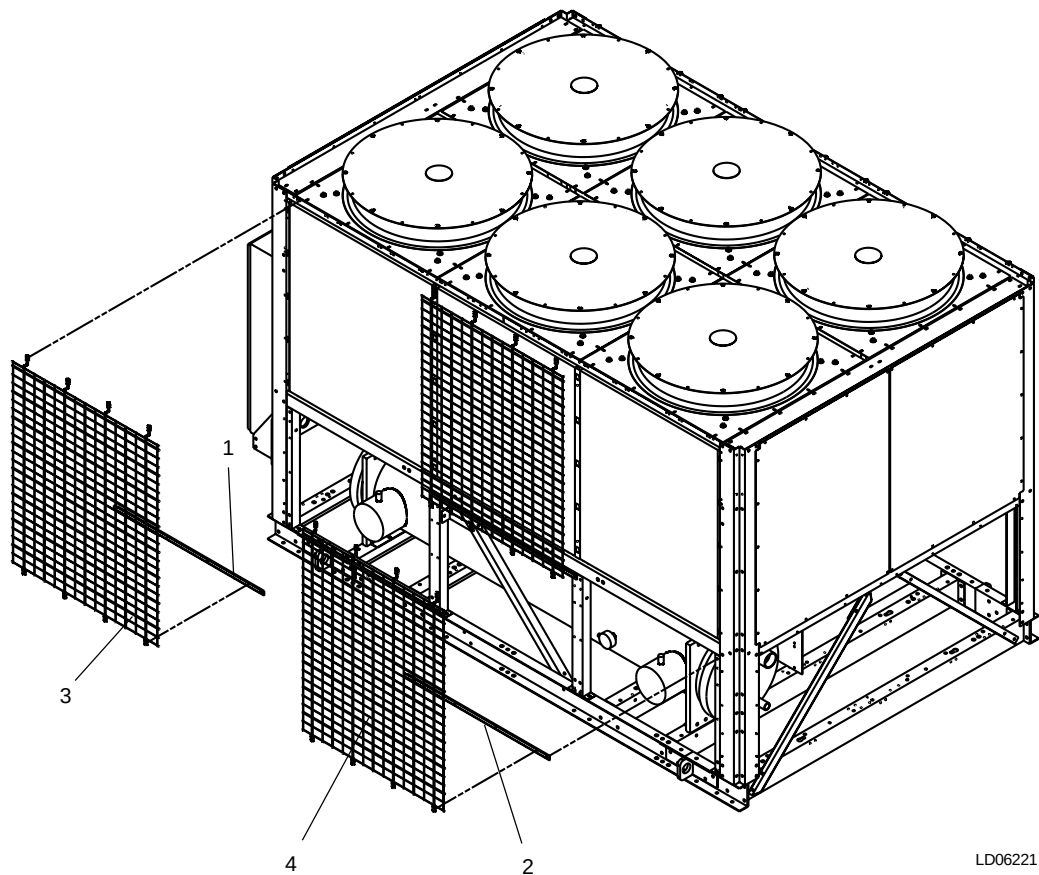


FIG. 38 – TOP SECTION - WIRE ENCLOSURE - KIT NO. 375-29569-100 IS SHOWN.

TABLE 34 – TOP SECTION - WIRE ENCLOSURE

TOP KIT COMPONENTS 375-29569-100 AND 375-29569-120				
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

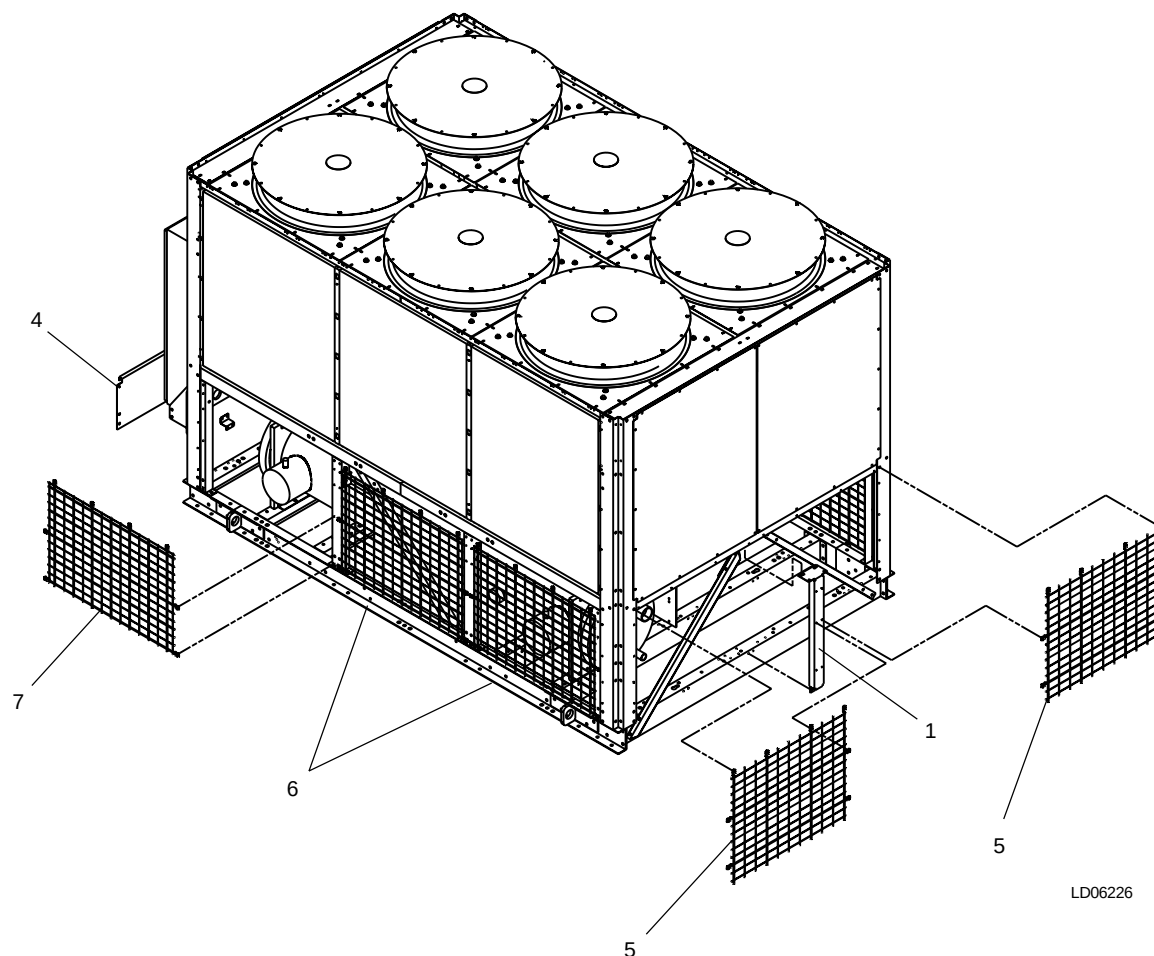
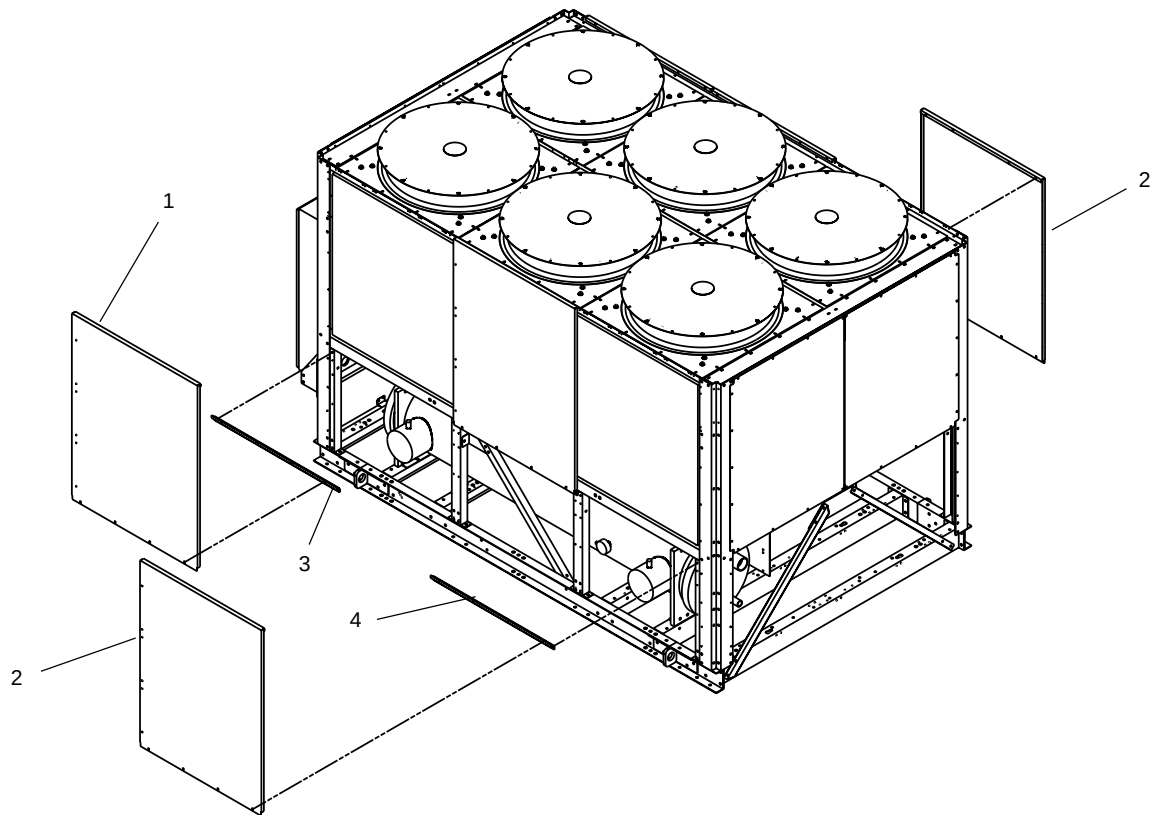


FIG. 39 – BOTTOM SECTION - WIRE ENCLOSURE - KIT NO. 375-29569-101 IS SHOWN.

TABLE 35 – BOTTOM SECTION - WIRE ENCLOSURE

BOTTOM KIT COMPONENTS 375-29569-101 AND 375-29081-121				
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



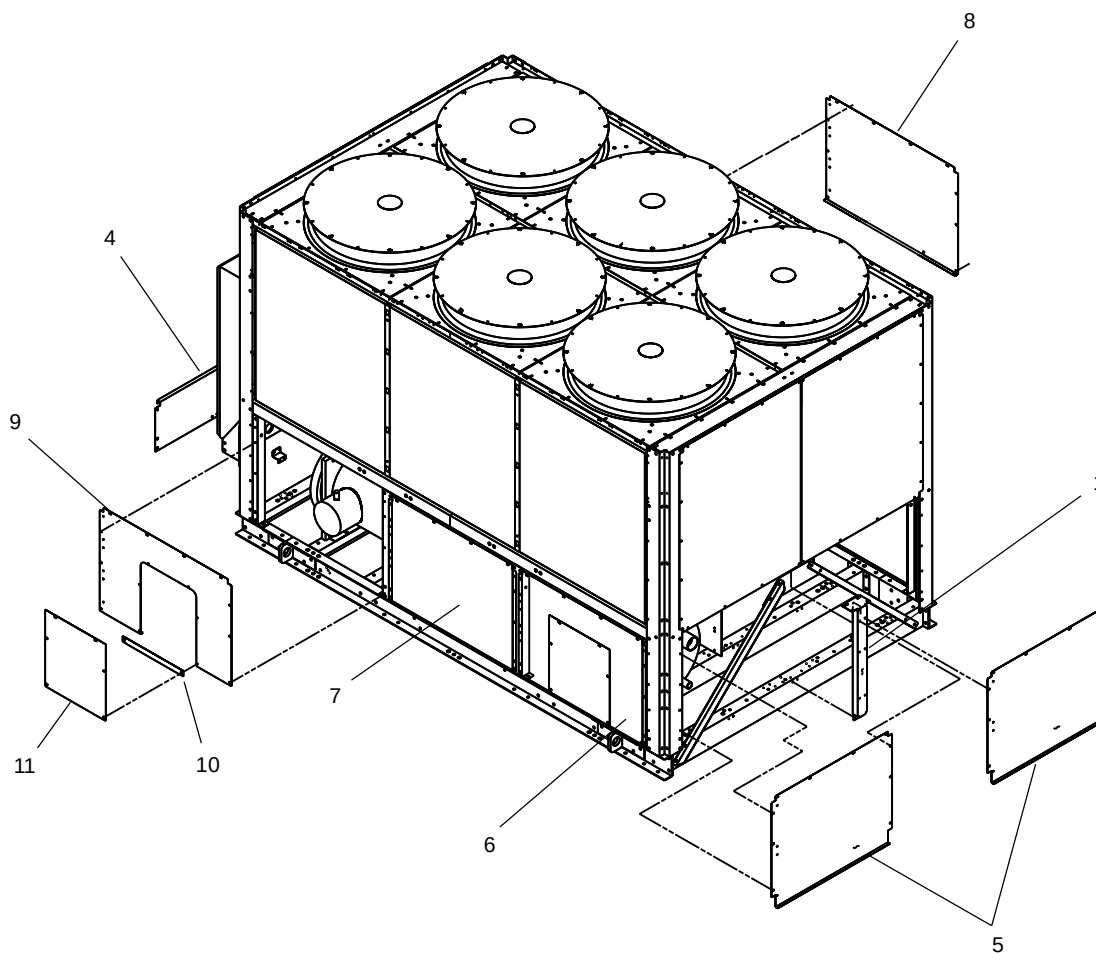
LD06223

FIG. 40 – TOP SECTION - LOUVERED PANEL ENCLOSURE - KIT NO. 375-29571-100 IS SHOWN.

TABLE 36 – TOP SECTION - LOUVERED PANEL ENCLOSURE

TOP KIT COMPONENTS 375-29571-100 AND 375-29571-120				
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



LD06224

FIG. 41 – BOTTOM SECTION - LOUVERED PANEL ENCLOSURE - KIT NO. 375-29571-101 IS SHOWN.

TABLE 37 – BOTTOM SECTION - LOUVERED PANEL ENCLOSURE

BOTTOM KIT COMPONENTS 375-29571-101 AND 375-29080-121				
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 38 – 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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