

 BY JOHNSON CONTROLS	AIR-COOLED CONDENSING UNIT HERMETIC SCROLL 50 HZ	
RENEWAL PARTS	Supersedes: 150.63-RP3 (1203)	Form 150.63-RP3 (713)

**MODELS YCUL0045, 0061, 0081, 0095, 0121, 0125, 0145, 0161,
0171, 0185, 0211, 0235, 0255 AND YCUL0275
STYLE "B"**



**16 - 90 TON
270 - 457KW
50 HZ**



Issue Date:
July 31, 2013



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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.

CONDENSER COIL COMPONENTS

Condenser

POWER
PANEL
END OF
CHILLER

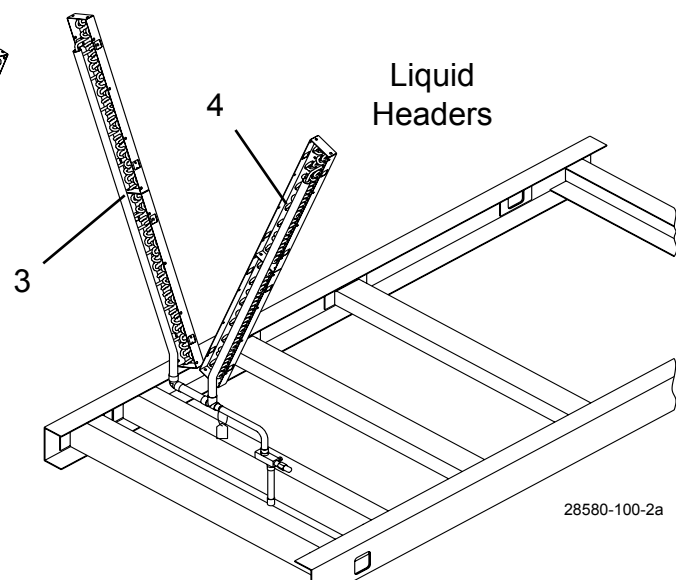
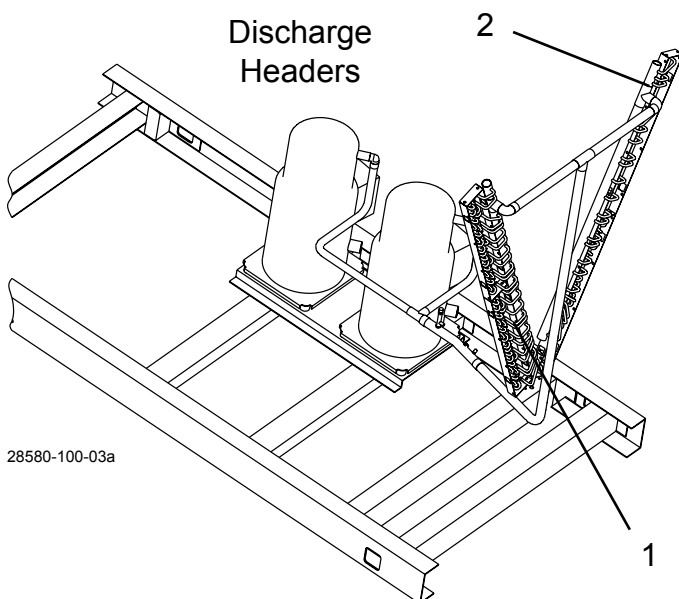
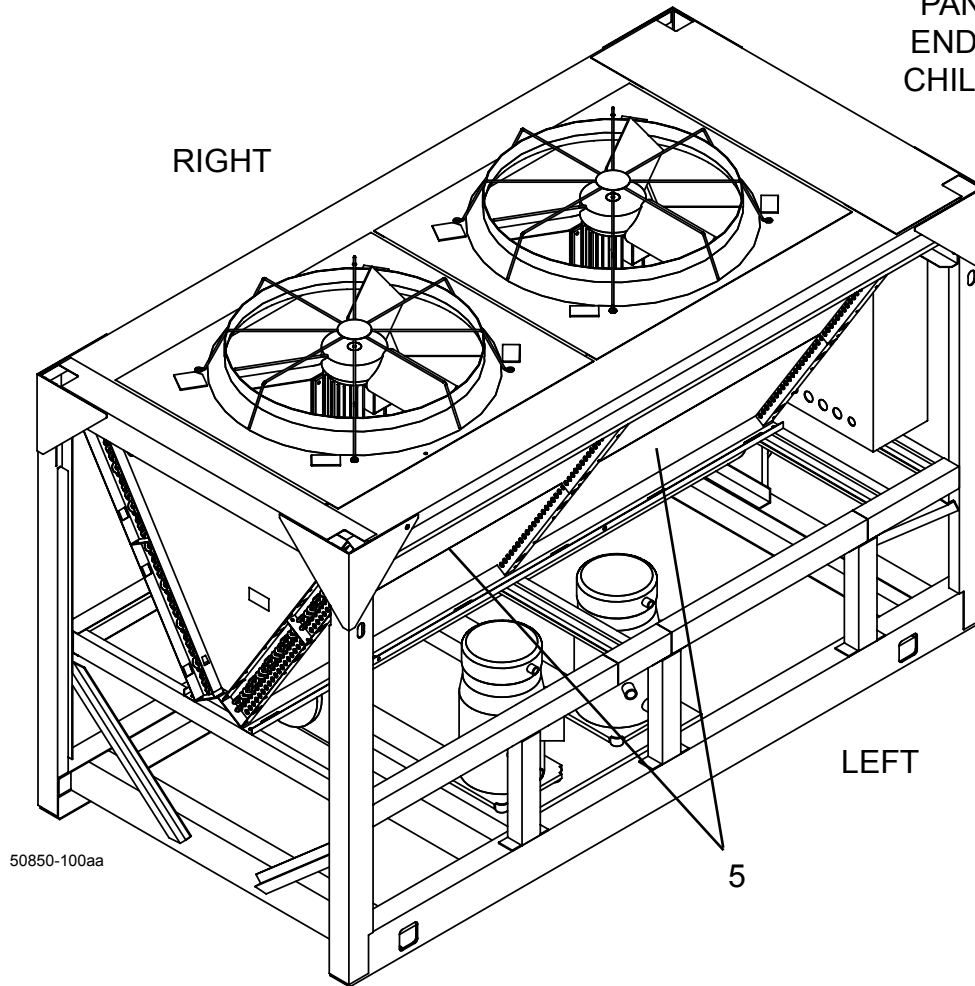


FIG. 1 – CONDENSER COIL COMPONENTS (REF. TABLE 1, PAGE 5)

CONDENSER COIL COMPONENTS (CONT'D)

TABLE 1 – CONDENSER COIL COMPONENTS (SEE FIG. 1, PAGE 4)

ITEM NUMBER	DESCRIPTION	POSITION	QTY	YCUL0045 & YCUL0061	YCUL0081	YCUL0095	YCUL0121
1	Header, Discharge	RH	1	375-31223-000	375-30685-000	375-25897-000	375-25897-000
2	Header, Discharge	LH	1	375-31224-000	375-30686-000	375-25894-000	375-25894-000
3	Header, Liquid	RH	1	375-51203-000* 375-51207-000**	375-51205-000	375-51196-000	375-51196-000
4	Header, Liquid	LH	1	375-51202-000* 375-51206-000**	375-51204-000	375-51197-000	375-51197-000
ALUMINUM FIN COILS							
5	Coil	BOTH	4	375-46182-100	375-46182-200	375-46182-300	375-46182-300
BLACK FIN COILS							
5	Coil	BOTH	4	375-46183-100	375-46183-200	375-46183-300	375-46183-300
PHENOLIC COILS							
5	Coil	BOTH	4	375-46184-100	375-46184-200	375-46184-300	375-46184-300
COPPER COILS							
5	Coil	BOTH	4	375-46185-100	375-46185-200	375-46185-300	375-46185-300

Note: Header left or right position is viewed from power panel end of chiller.

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

***Note:** YCUL0045 only.

****Note:** YCUL0061 only.

TABLE 1 (CONT'D) – CONDENSER COIL COMPONENTS (SEE FIG. 1, PAGE 4)

ITEM NUMBER	DESCRIPTION	POSITION	QTY	YCUL0125, 0145, 0161 & YCUL0171	YCUL0185	YCUL0211	YCUL0235, 0084 & YCUL0275
1	Header, Discharge	RH	2	375-30619-000	375-30764-000	375-30662-000	375-45820-000
2	Header, Discharge	LH	2	375-30620-000	375-30765-000	375-30663-000	375-45817-000
3	Header, Liquid	RH	2	375-51200-000	375-51193-000	375-30669-000	375-45813-000
4	Header, Liquid	LH	2	375-30626-000	375-30766-000	375-30668-000	375-45815-000
ALUMINUM FIN COILS							
5	Coil	BOTH	8	375-46182-400	375-46182-500	375-46182-600	375-45259-100
BLACK FIN COILS							
5	Coil	BOTH	8	375-46183-400	375-46183-500	375-46183-600	375-45259-200
PHENOLIC COILS							
5	Coil	BOTH	8	375-46184-400	375-46184-500	375-46184-600	375-45259-300
COPPER COILS							
5	Coil	BOTH	8	375-46185-400	375-46185-500	375-46185-600	375-45259-400

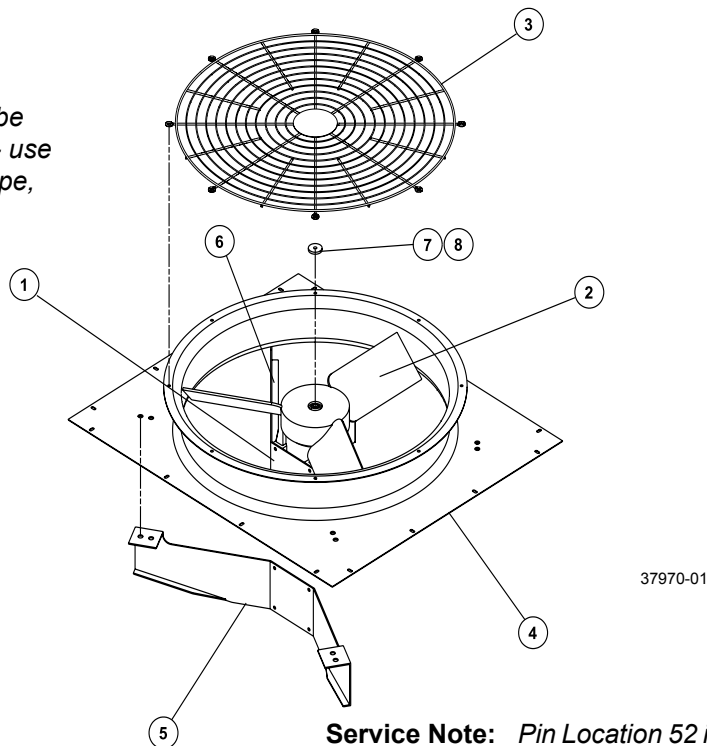
Note: Header left or right position is viewed from power panel end of chiller.

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

FAN COMPONENTS

Service Note:

Fan Hub to Shaft Joint should be sealed with protective coating - use RUST VETO 344 - a solvent type, rust preventative coating.



Service Note: Pin Location 52 in Model Number will be "X" for Standard Fan, or "L" for Low Noise Fan. See page 3.

FIG. 2 – FAN COMPONENTS
TABLE 2 – FAN COMPONENTS

ITEM NUMBER	DESCRIPTION	VOLT-AGE CODE	FAN TYPE	
			STANDARD 7/8", 1160 RPM	LOW NOISE 7/8", 850 RPM
1 ^s	Motor, Fan 2 HP (YCUL0045-YCUL0275)	-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
		-50	024-30900-001	024-30933-001
		-58	024-30900-003	024-30933-003
2 ^s	Blade (YCUL0045-YCUL0185)	All	026-35607-000	026-36579-000
	Blade (YCUL0211-YCUL0275)		026-37577-000	026-37579-000
3	Guard (YCUL0045-YCUL0185)	All	026-37521-000	026-37521-000
	Guard (YCUL0211-YCUL0275)		026-35605-000	026-35605-000
4	Orifice (YCUL0045-YCUL0185)	All	026-37520-000	
	Orifice (YCUL0211-YCUL0275)		026-36141-000	
5	Support, Inner (YCUL0045-YCUL0185)	All	075-25413-018	
	Support, Inner (YCUL0211-YCUL0275)		075-25584-000	
6	Support, Outer (YCUL0045-YCUL0185)	All	075-25413-019	
	Support, Outer (YCUL0211-YCUL0275)		075-25583-000	
7	Screw, Cap (M8x125)	All	021-18494-000	
8	Spacer	All	075-29007-000	

^s = Recommended Spare Parts

REFRIGERANT PIPING COMPONENTS

CHILLER MODEL YCUL

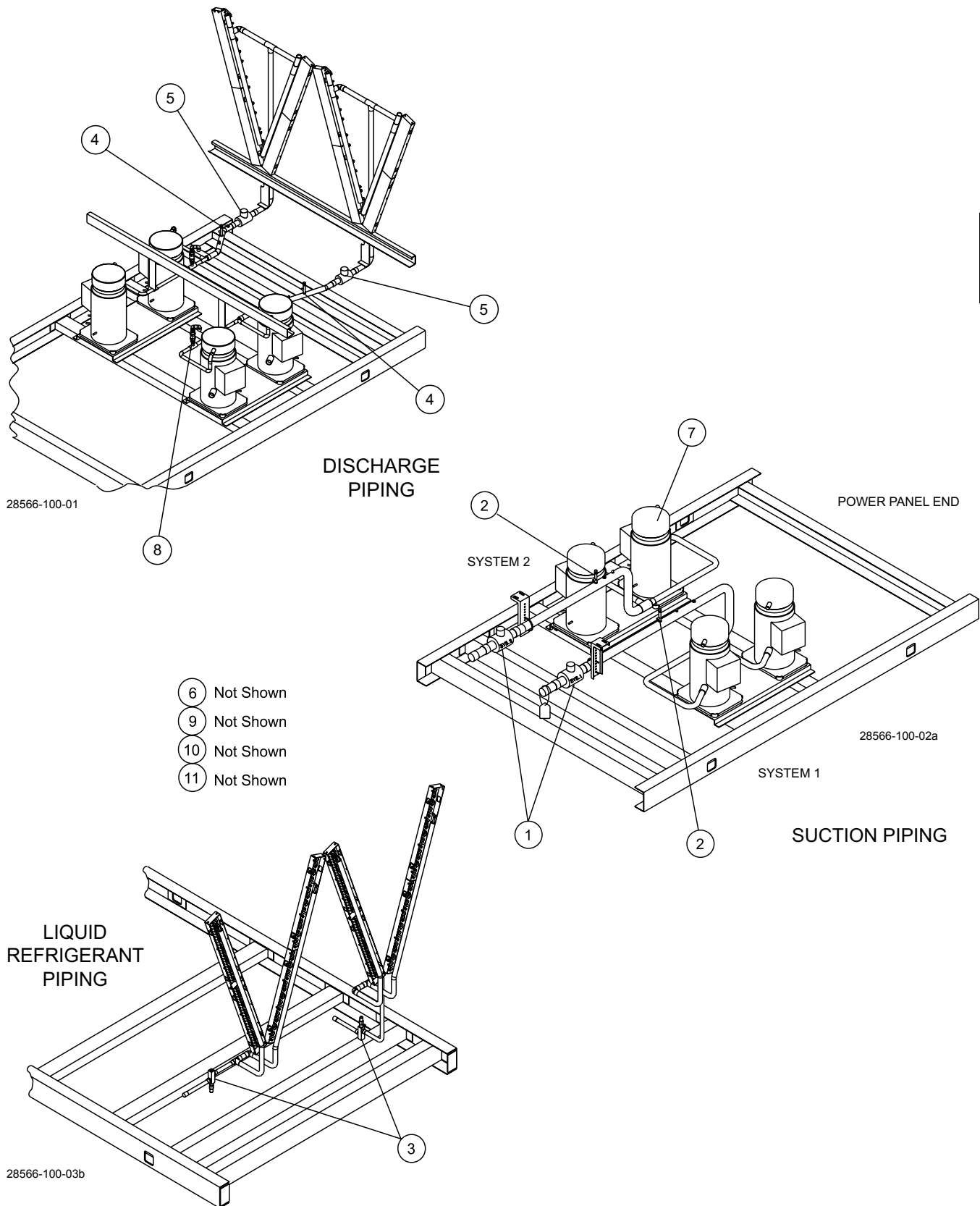


FIG. 3 – REFRIGERANT PIPING COMPONENTS - MODEL YCUL0125 SHOWN
(REF. TABLE 3, PAGES 8 AND 9)

REFRIGERANT PIPING COMPONENTS (CONT'D)

CHILLER MODEL YCUL

TABLE 3 – REFRIGERANT PIPING COMPONENTS (SEE FIG. 3, PAGE 7)

ITEM NO.	SYS.	DESCRIPTION	YCUL0045	YCUL0061	YCUL0081
1	1	Valve, Ball (Suction)	022-09750-000	022-08883-000	022-09752-000
2	1	Valve, Shut-Off (Suction)	022-00009-000	022-00009-000	022-00009-000
3	1	Valve, Liquid Stop (Liquid)	022-02992-000	022-02992-000	022-02992-000
4	1	Valve, Shut-Off (Discharge)	022-00009-000	022-00009-000	022-00009-000
5	1	Valve, Ball (Discharge)	022-09749-000	022-09749-000	022-09750-000
6	1	Insulation, 1 1/8"	010-02841-000		
		Insulation, 1 3/8"	010-02848-000		
		Insulation, 1 5/8"	010-03628-000		
		Insulation, 2 1/8"	010-02842-000		
7	1	Compressor	See pages 12 and 13		
8	1	Valve, Relief	022-08863-000	022-08863-000	022-08863-000
9	1	Dehydrator	026-36510-000	026-36510-000	026-36510-000
10 ^s	1	Core, Dehydrator	N/A	N/A	N/A
11	1	Moisture Indicator	026-15305-000	026-15305-000	026-15305-000

ITEM NO.	SYS.	DESCRIPTION	YCUL0095	YCUL0121
1	1	Valve, Ball (Suction)	022-09752-000	022-09752-000
2	1	Valve, Shut-Off (Suction)	022-00009-000	022-00009-000
3	1	Valve, Liquid Stop (Liquid)	022-02992-000	022-02992-000
4	1	Valve, Shut-Off (Discharge)	022-00009-000	022-00009-000
5	1	Valve, Ball (Discharge)	022-09750-000	022-08883-000
6	1	Insulation, 1 1/8"	010-02841-000	
		Insulation, 1 3/8"	010-02848-000	
		Insulation, 1 5/8"	010-03628-000	
		Insulation, 2 1/8"	010-02842-000	
7	1	Compressor	See pages 12 and 13	
8	1	Valve, Relief	022-08882-000	022-08882-000
9	1	Dehydrator	026-30598-000	026-30598-000
10 ^s	1	Core, Dehydrator	026-18328-000	026-18328-000
11	1	Moisture Indicator	026-15305-000	026-15305-000

^s = Recommended Spare Parts

REFRIGERANT PIPING COMPONENTS (CONT'D)

CHILLER MODEL YCUL

TABLE 3 (CONT'D) – REFRIGERANT PIPING COMPONENTS (SEE FIG. 3, PAGE 7)

ITEM NO.	SYS.	DESCRIPTION	YCUL0125 & YCUL0145	YCUL0161	YCUL0171 & YCUL0185
1	Both	Valve, Ball (Suction)	022-09752-000	022-09752-000	022-09752-000
2	Both	Valve, Shut-Off (Suction)	022-00009-000	022-00009-000	022-00009-000
3	Both	Valve, Liquid Stop (Liquid)	022-02992-000	022-02992-000	022-02992-000
4	Both	Valve, Shut-Off (Discharge)	022-00009-000	022-00009-000	022-00009-000
5	Both	Valve, Ball (Discharge)	022-09750-000	022-09750-000	022-08883-000
6	Both	Insulation, 1 3/8"	010-02848-000		
		Insulation, 1 5/8"	010-03628-000		
		Insulation, 2 1/8"	010-02842-000		
7	Both	Compressor	See pages 12 and 13		
8	Both	Valve, Relief	022-08863-000	022-08882-000	022-08863-000
9	Both	Dehydrator	026-30598-000	026-30598-000	026-30598-000
10 ^s	Both	Core, Dehydrator	026-18328-000	026-18328-000	026-18328-000
11	Both	Moisture Indicator	026-15305-000	026-15305-000	026-15305-000

Piping

ITEM NO.	SYS.	DESCRIPTION	YCUL0211	YCUL0235 & YCUL0255	YCUL0275
1	Both	Valve, Ball (Suction)	022-09752-000	022-09752-000	022-09752-000
2	Both	Valve, Shut-Off (Suction)	022-00009-000	022-00009-000	022-00009-000
3	Both	Valve, Liquid Stop (Liquid)	022-10022-000	022-10022-000	022-10022-000
4	Both	Valve, Shut-Off (Discharge)	022-00009-000	022-00009-000	022-00009-000
5	Both	Valve, Ball (Discharge)	022-08883-000	022-08883-000	022-08883-000
6	Both	Insulation, 1 3/8"	010-02848-000		
		Insulation, 1 5/8"	010-03628-000		
		Insulation, 2 1/8"	010-02842-000		
		Insulation, 3 1/8"	010-02849-000		
7	Both	Compressor	See pages 12 and 13		
8	Both	Valve, Relief	022-08882-000	022-08882-000	022-08882-000
9	Both	Dehydrator	026-36579-000	026-36579-000	026-36579-000
10 ^s	Both	Core, Dehydrator	026-18328-000	026-18328-000	026-18328-000
11	Both	Moisture Indicator	026-32397-000	026-32397-000	026-32397-000
			026-32800-000	026-32800-000	026-32800-000

^s = Recommended Spare Parts

COMPRESSOR

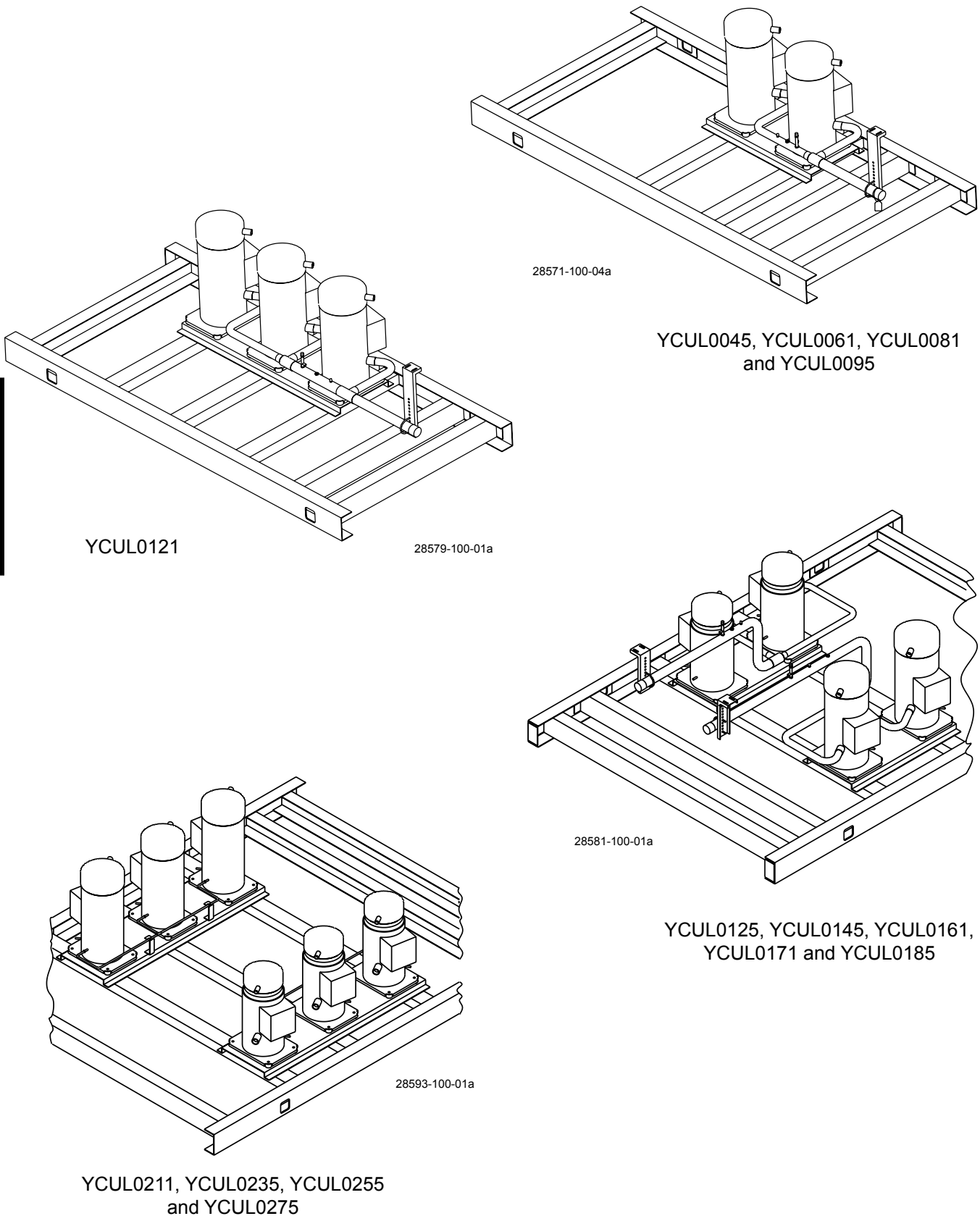


FIG. 5 – COMPRESSOR LAYOUTS (REF. TABLES 4, 4A AND 4B, PAGES 11 - 13)

COMPRESSOR (CONT'D)

TABLE 4 – COMPRESSOR PART NUMBERS - R-22
(SEE FIGS. 5 AND 5A, PAGE 10 AND 13)

R-22

MODEL	VOLTAGE CODE	SYSTEM #1 COMPRESSOR			SYSTEM #2 COMPRESSOR		
		PART #	MODEL #	QTY	PART #	MODEL #	QTY
YCUL0045	-50	026-36517-004	SM090	2	N/A	N/A	N/A
YCUL0061	-50	026-36518-004	SM120	2	N/A	N/A	N/A
YCUL0081	-50	026-36500-004	SM160	2	N/A	N/A	N/A
YCUL0095	-50	026-36162-004	SM185	2	N/A	N/A	N/A
YCUL0121	-50	026-36500-004	SM160	3	N/A	N/A	N/A
YCUL0125	-50	026-36514-004	SM125	2	026-36514-004	SM125	2
YCUL0145	-50	026-36500-004	SM160	2	026-36514-004	SM125	2
YCUL0161	-50	026-36500-004	SM160	2	026-36500-004	SM160	2
YCUL0171	-50	026-36162-004	SM185	2	026-36500-004	SM160	2
YCUL0185	-50	026-36162-004	SM185	2	026-36162-004	SM185	2
YCUL0211	-50	026-36500-004	SM160	3	026-36514-004	SM125	3
YCUL0235	-50	026-36500-004	SM160	3	026-36500-004	SM160	3
YCUL0255	-50	026-36162-004	SM185	3	026-36500-004	SM160	3
YCUL0275	-50	026-36162-004	SM185	3	026-36162-004	SM185	3

Compressor

COMPRESSOR (CONT'D)

TABLE 4 (CONT'D) – COMPRESSOR PART NUMBERS - R-407C
(SEE FIGS. 5 AND 5A, PAGE 10 AND 13)

R-407C

MODEL	VOLTAGE CODE	SYSTEM #1 COMPRESSOR			SYSTEM #2 COMPRESSOR		
		PART #	MODEL #	QTY	PART #	MODEL #	QTY
YCUL0045	-50	026-37506-004	SZ090	2	N/A	N/A	N/A
YCUL0061	-50	026-37506-004	SZ090	2	N/A	N/A	N/A
YCUL0081	-50	026-37504-002	SZ160	2	N/A	N/A	N/A
YCUL0095	-50	026-37503-002	SZ185	2	N/A	N/A	N/A
YCUL0121	-50	026-37504-002	SZ160	3	N/A	N/A	N/A
YCUL0125	-50	026-37505-002	SZ125	2	026-37505-002	SZ125	2
YCUL0145	-50	026-37504-002	SZ160	2	026-37505-002	SZ125	2
YCUL0161	-50	026-37504-002	SZ160	2	026-37504-002	SZ160	2
YCUL0171	-50	026-37503-002	SZ185	2	026-37504-002	SZ160	2
YCUL0185	-50	026-37503-002	SZ185	2	026-37503-002	SZ185	2
YCUL0211	-50	026-37504-002	SZ160	3	026-37505-002	SZ125	3
YCUL0235	-50	026-37504-002	SZ160	3	026-37504-002	SZ160	3
YCUL0255	-50	026-37503-002	SZ185	3	026-37504-002	SZ160	3
YCUL0275	-50	026-37503-002	SZ185	3	026-37503-002	SZ185	3

Compressor

COMPRESSOR (CONT'D)

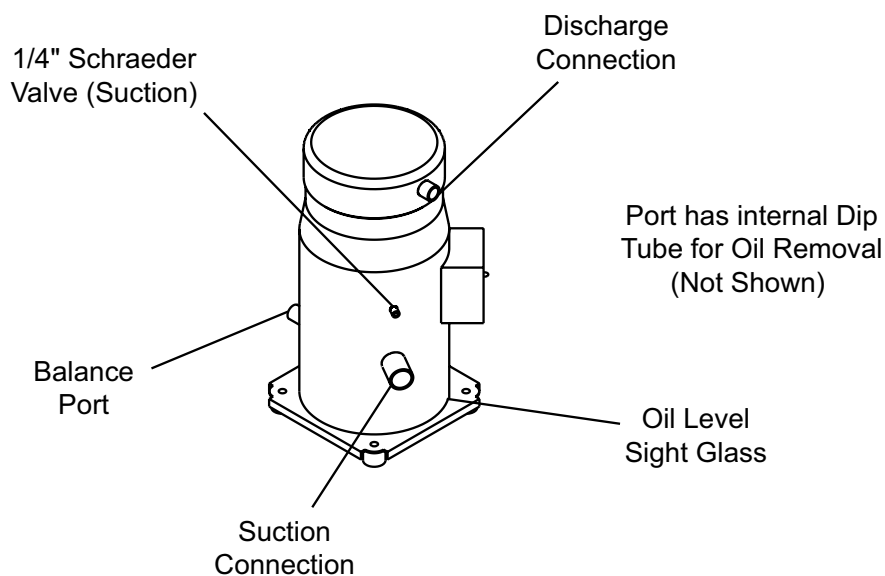
TABLE 4A – COMPRESSOR OIL TYPE

ITEM	REF.	DESCRIPTION	5 GALLON
OIL ^s	R-22	Oil, Type 'F' (Mineral)	011-00434-000
	R-407C	Oil, Type 'T'	011-00936-000

^s = Recommended Spare Parts

TABLE 4B – HEATER AND ISOLATOR KIT PART NUMBERS

CHILLER MODEL	COMPRESSOR MODEL	HEATER KIT NUMBER	HEATER PART NUMBER	QUANTITY
YCUL0045	S-090	575-45141-001	025-35139-000	2
YCUL0061	S-120	575-45141-001	025-35139-000	2
YCUL0081	S-160	575-45141-001	025-35139-000	2
YCUL0095	S-185	575-45141-002	025-35140-000	2
YCUL0121	S-160	575-45141-003	025-35139-000	3
YCUL0125	S-125	575-45141-004	025-35139-000	4
YCUL0145	S-160 S-125	575-45141-004	025-35139-000	4
YCUL0161	S-160	575-45141-004	025-35139-000	4
YCUL0171	S-185	575-45141-005	025-35140-000 (Sys 1)	2
	S-160		025-35139-000 (Sys 2)	2
YCUL0185	S-185	575-45141-006	025-35140-000	4
YCUL0211	S-160	575-45141-007	025-35139-000	6
	S-125			
YCUL0235	S-160	575-45141-007	025-35139-000	6
YCUL0255	S-185	575-45141-008	025-35140-000 (Sys 1)	3
	S-160		025-35139-000 (Sys 2)	3
YCUL0275	S-185	575-45141-009	025-35140-000	6



30612-100-01a

FIG. 5A – COMPRESSOR (REF. TABLE 4, 4A AND 4B, PAGES 11 - 13)

CONTROL PANEL AND POWER PANEL CONFIGURATIONS

Power panels and control 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.

LETTER CODE IDENTIFIERS		POWER PANEL AND CONTROL PANEL CONFIGURATION
PIN 16	PIN 17	
X	X	Terminal Blocks For Each System In Power Panel
S	D	Single Point Non-Fused Disconnect Switch Supply
S	X	Single Point Terminal Block Supply
B	X	Single Point Circuit Breaker Supply

Examples of power wiring configurations:

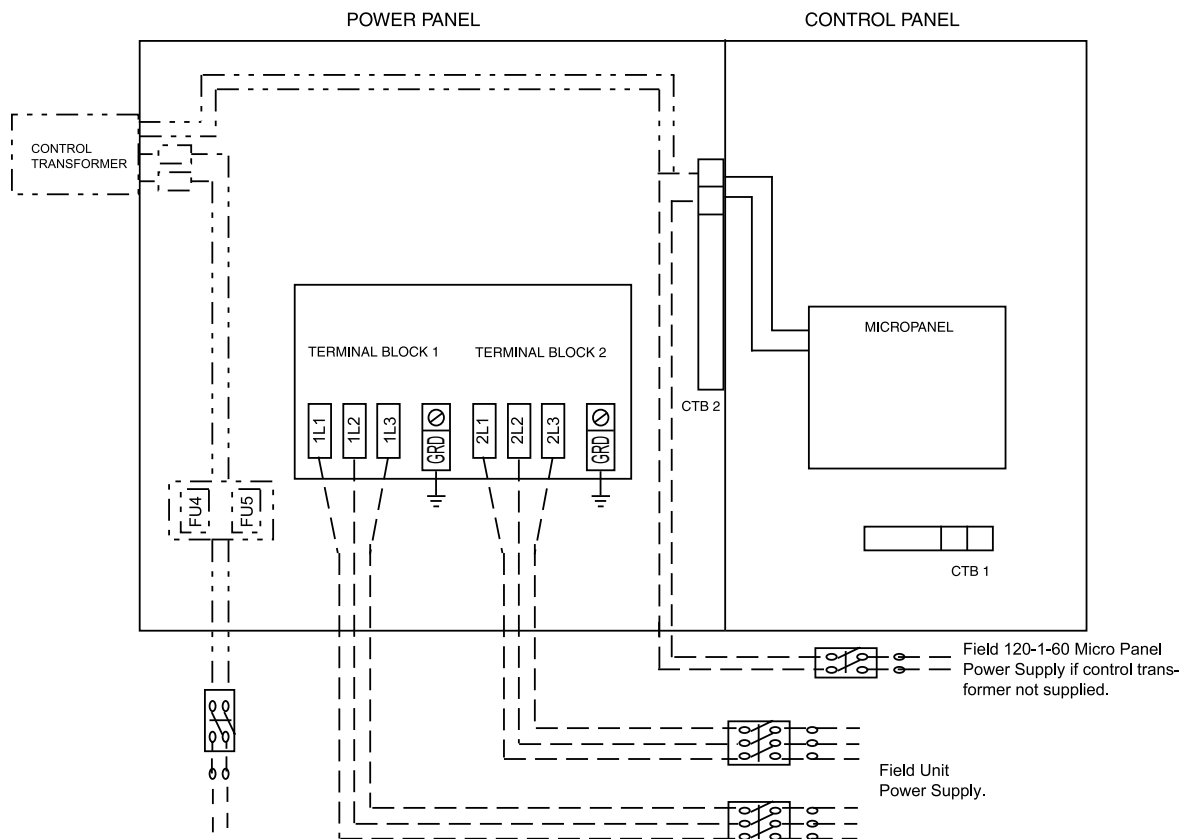


FIG. 6 – EXAMPLES OF POWER WIRING CONFIGURATIONS

CONTROL PANEL AND POWER PANEL CONFIGURATIONS (CONT'D)

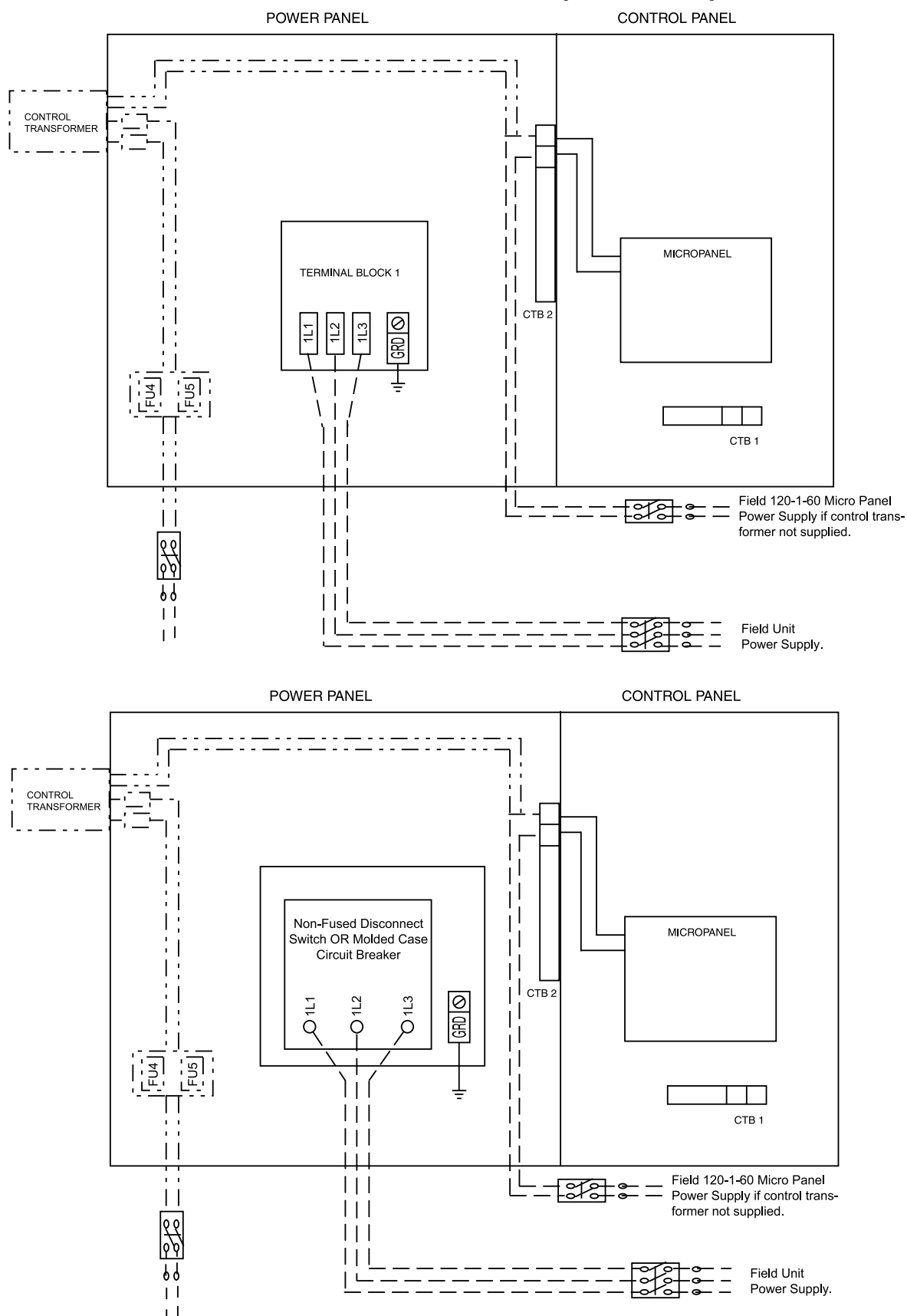
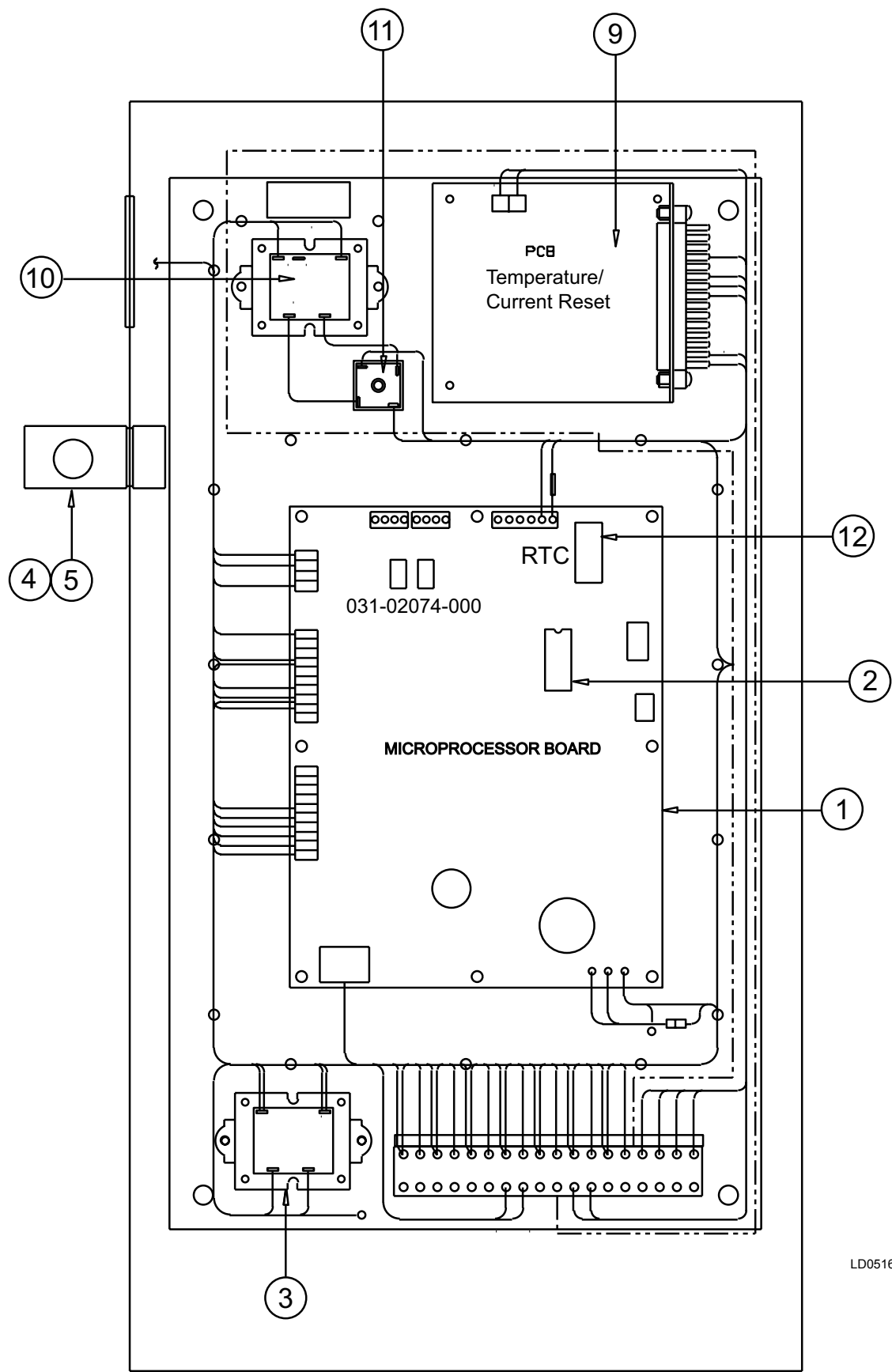


FIG. 6 (CONT'D) – EXAMPLES OF POWER WIRING CONFIGURATIONS

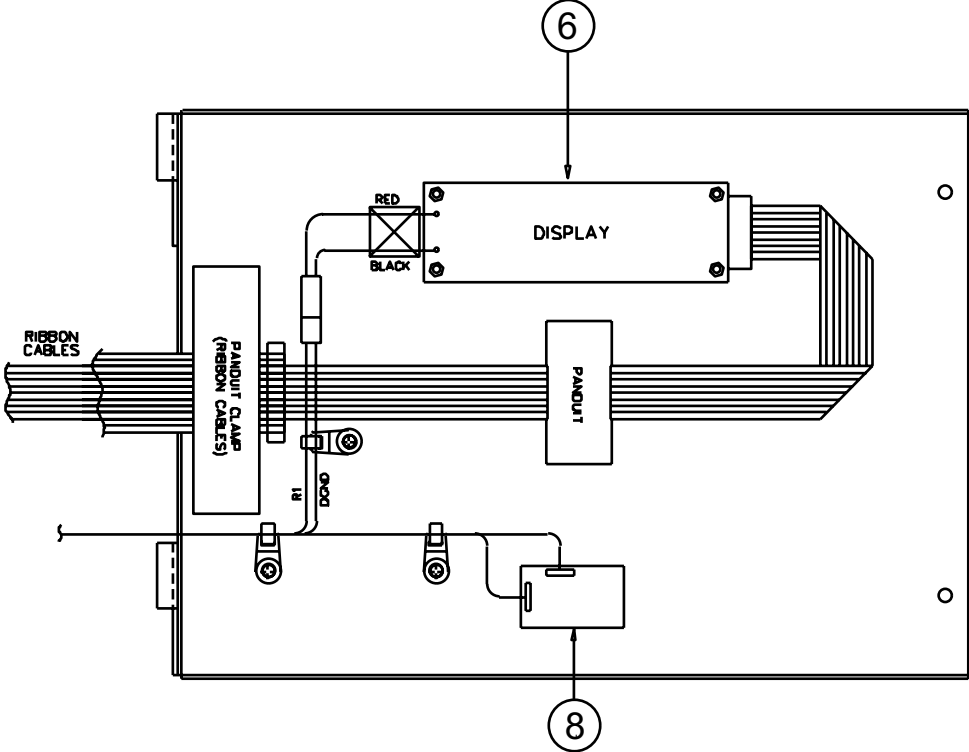
CONTROL PANEL COMPONENTS



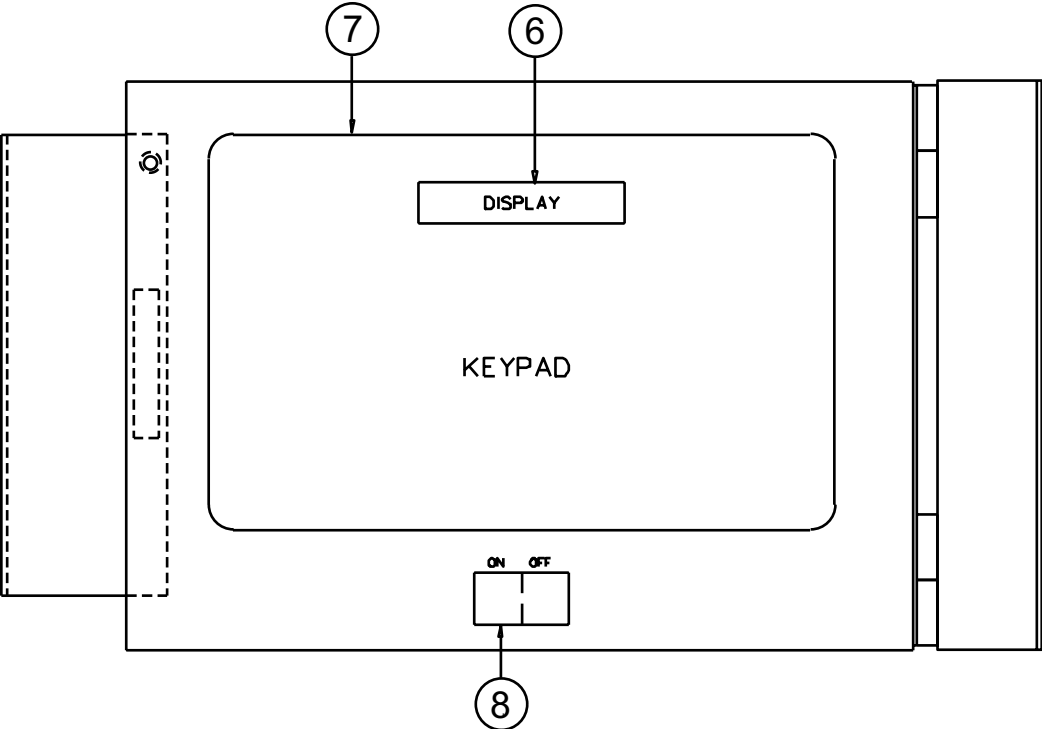
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FIG. 7 – CONTROL PANEL COMPONENTS (REF. TABLE 5, PAGE 18)

CONTROL PANEL COMPONENTS (CONT'D)



DISPLAY DOOR REAR VIEW



DISPLAY DOOR FRONT VIEW

FIG. 7A – CONTROL PANEL COMPONENTS (REF. TABLE 5, PAGE 18)

CONTROL PANEL COMPONENTS (CONT'D)

TABLE 5 – CONTROL PANEL COMPONENTS
(SEE FIG. 7 AND 7A, PAGES 16 AND 17)

Item No.	Qty.	Description	Common Parts
1^s	1	Micro Board	031-02050-001
2^s	1	EPROM	031-02049-001
3	1	Transformer (115/24V)	025-30889-000
4	1	Fuse Holder	025-34484-000
5^s	1	Fuse - 12amp	025-34483-000
6	1	Display	031-01110-000
7	1	Keypad	024-27838-000
8	1	Switch On/Off	024-25517-000
9	1	Remote Current Reset	031-00814-000
10	1	Transformer (3T)	025-18452-000
11	1	Bridge Rectifier	031-02201-000
12	1	Real Time Clock	031-00955-000

^s Recommended Spare Part

POWER PANEL COMPONENTS

LUG KITS TABLE

Circuit Breakers		Wire Size	YORK Lug Kit Part Number
024-31852-000	S3H035TW	#14AWG-#2 AWG	025-34477-000
024-31837-000	S3H040TW		
024-31838-000	S3H050TW		
024-31839-000	S3H060TW		
024-31840-000	S3H070TW	#14AWG-#1/0 AWG	025-34478-000
024-31841-000	S3H080TW		
024-31842-000	S3H090TW		
024-31843-000	S3H100TW		
024-31844-000	S3H125TW	(1) 2-4/0 AWG	025-34479-000
024-31649-000	S3H150TW		
024-31820-000	S3H175TW	#14AWG-300KCMIL AWG	025-34480-000
024-31851-000	S3H200TW		
024-31819-000	S3H225TW	#6AWG-350KCMIL AWG	025-34418-000
025-34419-000	S4H250BW		
025-34424-000	S5H400BW	(1) 250-500KCMIL AWG	025-34481-000
Non-Fused Disconnect Switch		Wire Size	YORK Part Number
024-31888-000	S3H150DW	(1) 2-4/0 AWG	025-34479-000
024-31871-000	S3B225DW	#14AWG-300KCMIL AWG	025-34480-000
024-30963-000	S4H250DW	#6AWG-350KCMIL AWG	025-34418-000
024-30964-000	S5H400DW	(1) 250-500KCMIL AWG	025-34481-000

POWER PANEL COMPONENTS (CONT'D)

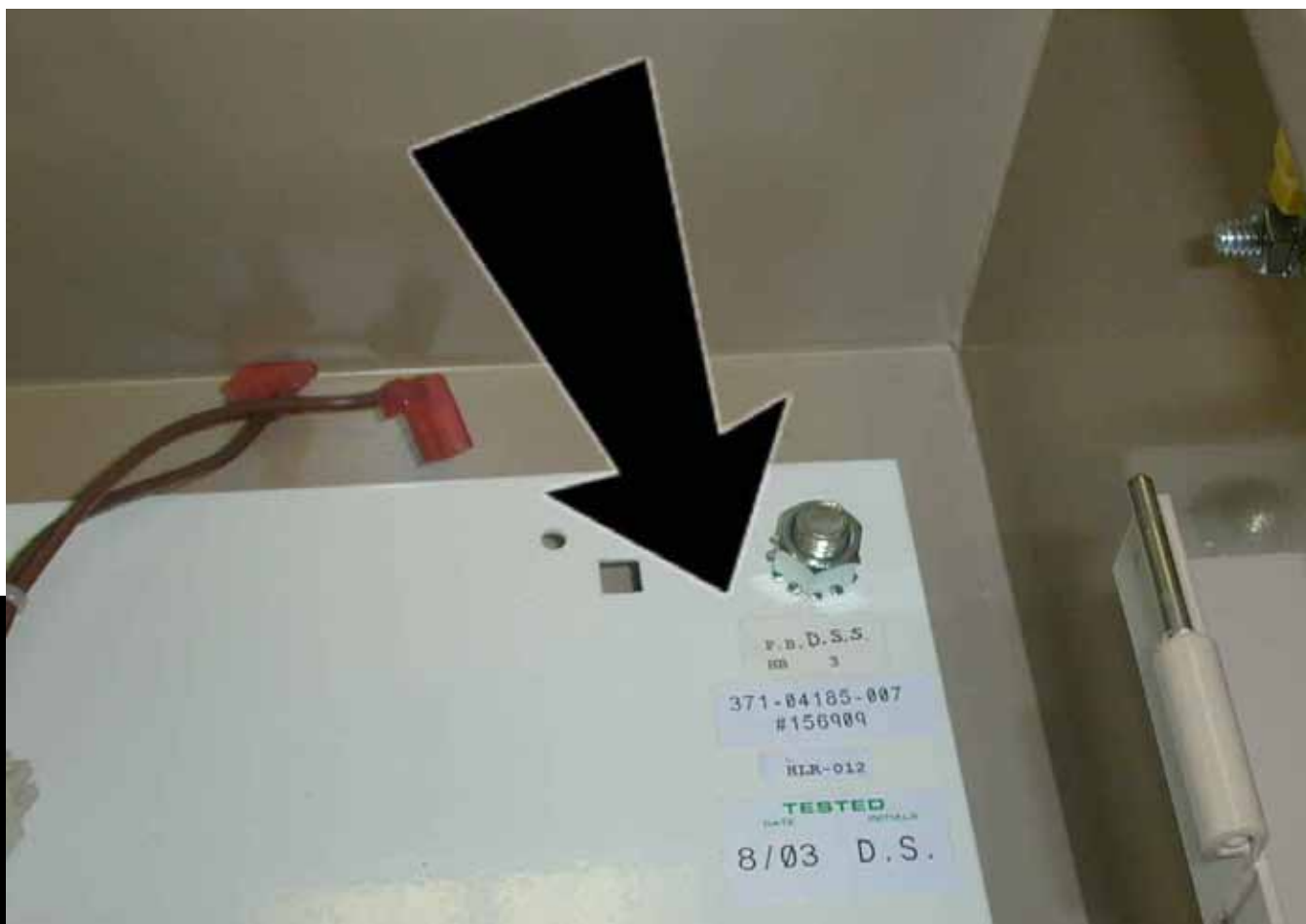
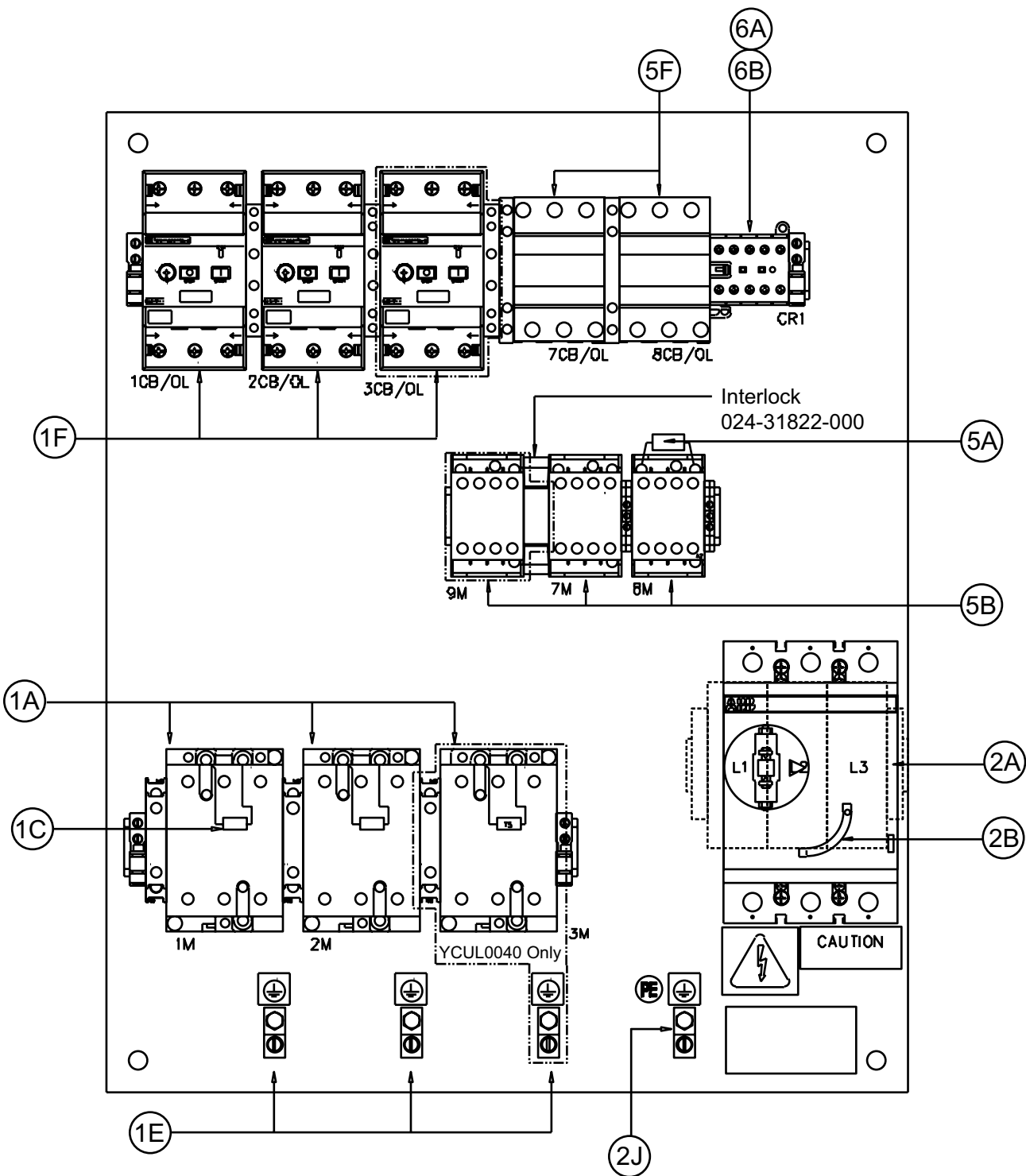


FIG. 8 – PANEL NUMBER STICKER LOCATION (REF. TABLE 6, PAGES 24-31)

POWER PANEL COMPONENTS (CONT'D)


Control & Power Panel

LD05161

FIG. 9 – POWER PANEL COMPONENTS - YCUL0045 THRU YCUL0121 SHOWN
(REF. TABLE 6, PAGES 24-31)

LD05150a

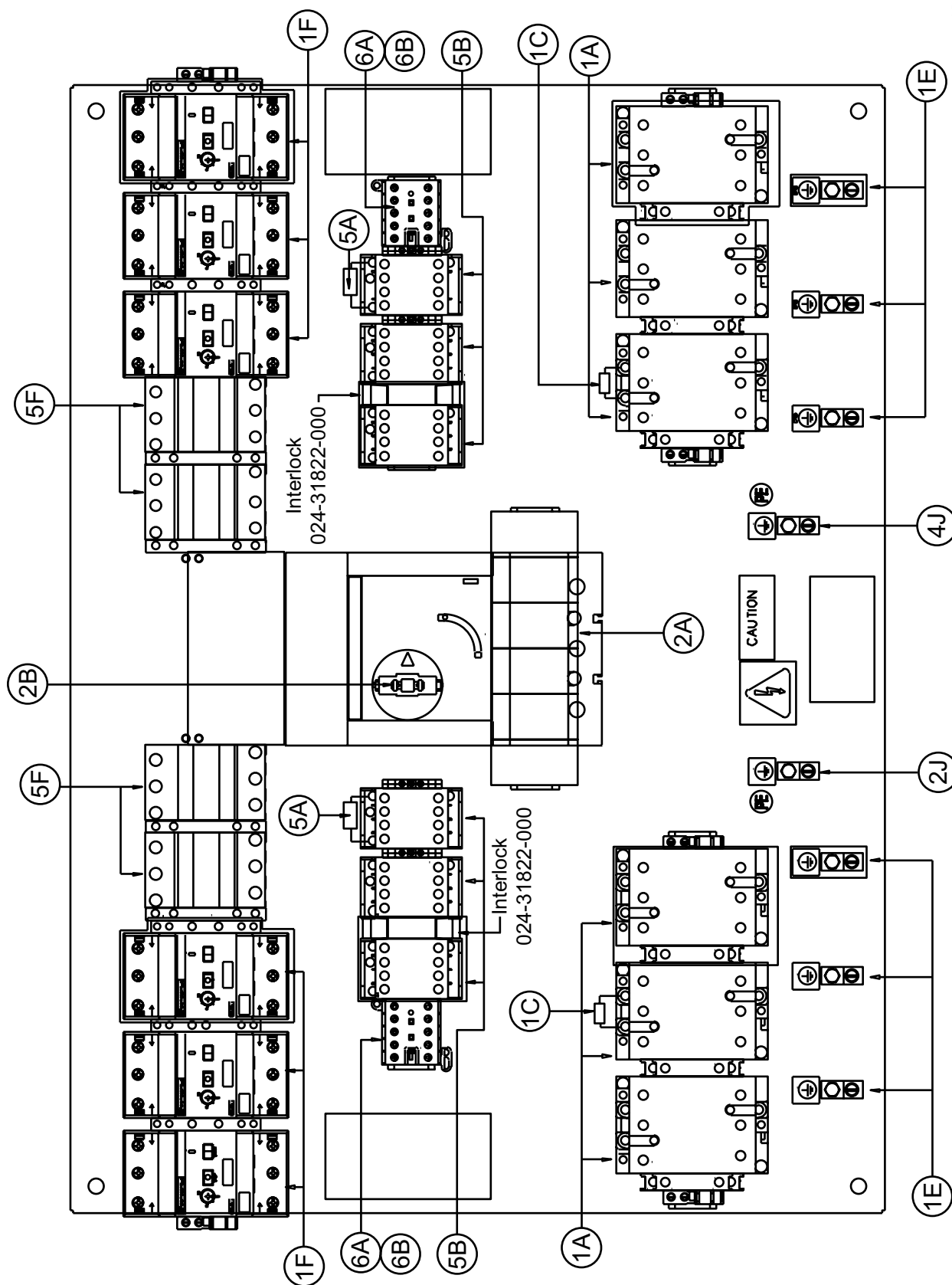


FIG. 10 – POWER PANEL COMPONENTS - YCUL0125 THRU YCUL0185 SHOWN (REF. TABLE 6, PAGES 24-31)

POWER PANEL COMPONENTS (CONT'D)

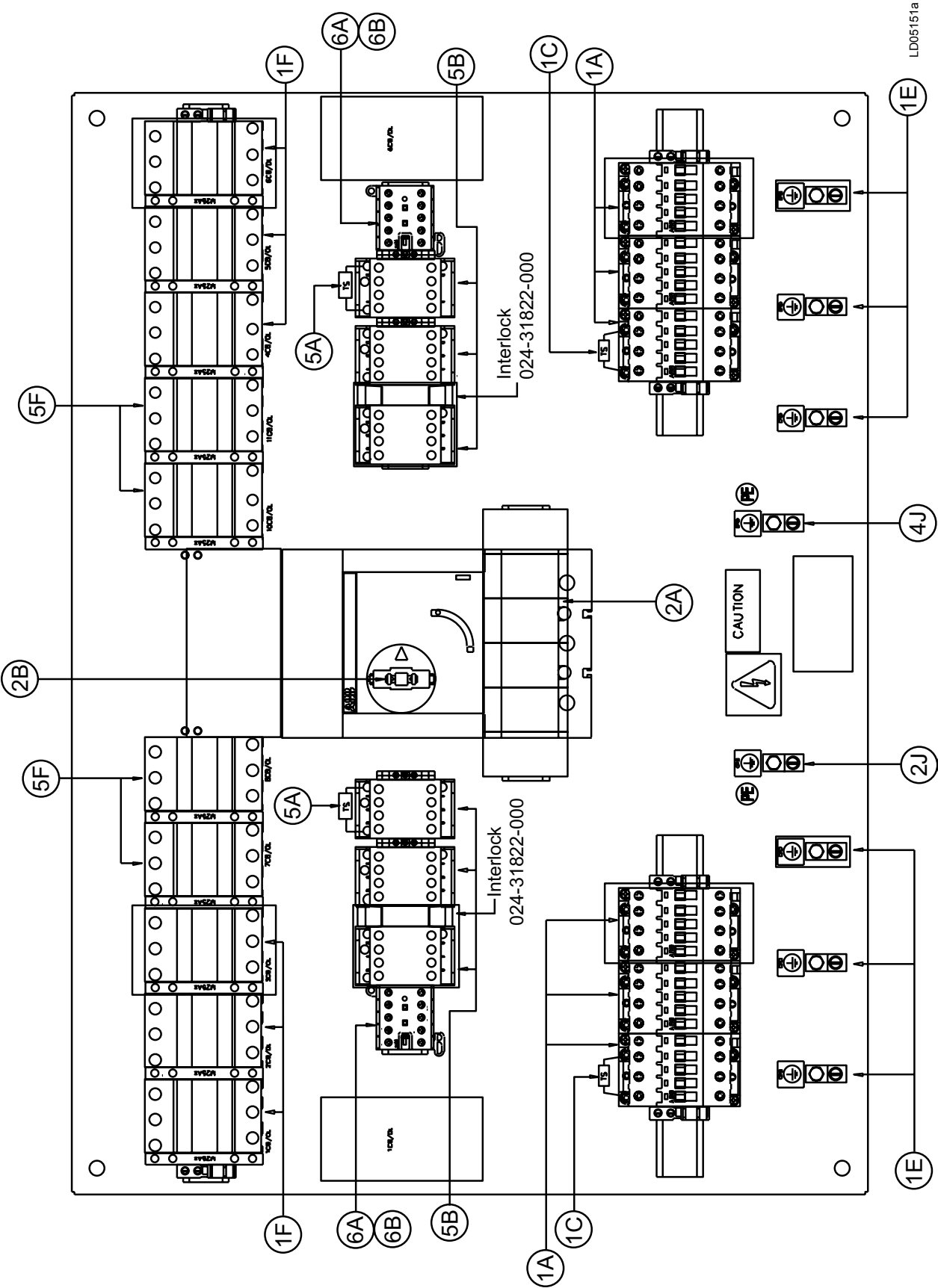


FIG. 11 – POWER PANEL COMPONENTS - YCUL0211 THRU YCUL0275 SHOWN (REF. TABLE 6, PAGES 24-31)

POWER PANEL COMPONENTS (CONT'D)

TABLE 6 – POWER PANEL COMPONENTS - YCUL0045-50 & YCUL0061-50 (SEE FIGS. 8-11, PAGES 20-23)

Item No.	Qty.	Description	YCUL0045-50			YCUL0061-50		
			Single Point Terminal Block	Single Point Non-Fused Disc. Switch	Single Point Circuit Breaker	Single Point Terminal Block	Single Point Non-Fused Disc. Switch	Single Point Circuit Breaker
1A	2	Compressor Contactor (Sys 1)	*371-03753-104	*371-03753-307	*371-03753-207	*371-03753-111	*371-03753-314	*371-03753-214
			024-31830-000	024-31830-000	024-31830-000	024-31817-000	024-31817-000	024-31817-000
1C	2	Surge Suppressor	031-02202-000	031-02202-000	031-02202-000	031-02202-000	031-02202-000	031-02202-000
1E	2	Ground Lug	025-34455-000	025-34455-000	025-34455-000	025-34455-000	025-34455-000	025-34455-000
1F	2	Compressor Overload	N/A	N/A	N/A	N/A	N/A	N/A
2A	3	SP Terminal Block	025-35644-000	N/A	N/A	025-35644-000	N/A	N/A
	1	SP Circuit Breaker	N/A	N/A	024-31837-000	N/A	N/A	024-31839-000
	1	SP Non-Fused Disc. Switch	N/A	025-38378-000	N/A	N/A	025-38378-000	N/A
2B	1	Operator Mechanism	N/A	024-31878-000	024-31878-000	N/A	024-31878-000	024-31878-000
	1	Handle	N/A	024-31880-000	024-31880-000	N/A	024-31880-000	024-31880-000
	1	Shaft	N/A	024-31879-000	024-31879-000	N/A	024-31879-000	024-31879-000
2J	1	Ground Lug	025-34088-000	025-34088-000	025-34455-000	025-34088-000	025-34088-000	025-34455-000
5A	2	Surge Suppressor	031-02202-000	031-02202-000	031-02202-000	031-02202-000	031-02202-000	031-02202-000
5B^s	2	Fan Contactor	025-34448-000	025-34448-000	025-34448-000	025-34445-000	025-34448-000	025-34448-000
5F^s	2	Fan Overload	024-33158-000	024-33158-000	024-33158-000	024-33158-000	024-33158-000	024-33158-000
6A	1	Relay	024-33177-000	024-33177-000	024-33177-000	024-33177-000	024-33177-000	024-33177-000
6B	1	Surge Suppressor	031-00808-000	031-00808-000	031-00808-000	031-00808-000	031-00808-000	031-00808-000

^s Recommended Spare Part

***Service Note:**

Locate the **PANEL NUMBER** sticker on the upper right hand corner of the power panel, see Figure 8, Page 20, then refer to the appropriate parts list for that number.

POWER PANEL COMPONENTS (CONT'D)

TABLE 6 – POWER PANEL COMPONENTS - YCUL0081-50 & YCUL0095-50 (SEE FIGS. 8-11, PAGES 20-23)

Item No.	Qty.	Description	YCUL0081-50			YCUL0095-50		
			Single Point Terminal Block	Single Point Non-Fused Disc. Switch	Single Point Circuit Breaker	Single Point Terminal Block	Single Point Non-Fused Disc. Switch	Single Point Circuit Breaker
1A	2	Compressor Contactor (Sys 1)	*371-03753-118	*371-03753-321	*371-03753-221	*371-03753-118	*371-03753-328	*371-03753-228
1C	2	Surge Suppressor	024-31818-000	024-31818-000	024-31818-000	024-31818-000	024-31818-000	024-31818-000
1E	2	Ground Lug	031-02202-000	031-02202-000	031-02202-000	031-02202-000	031-02202-000	031-02202-000
1F	2	Compressor Overload	025-34455-000	025-34455-000	025-34455-000	025-34455-000	025-34455-000	025-34455-000
2A	3	SP Terminal Block	N/A	N/A	N/A	N/A	N/A	N/A
	1	SP Circuit Breaker	025-34485-000	N/A	N/A	025-34485-000	N/A	N/A
2B	1	SP Non-Fused Disc. Switch	N/A	N/A	024-31840-000	N/A	N/A	024-31841-000
	1	Operator Mechanism	N/A	025-38378-000	N/A	N/A	025-38377-000	N/A
	1	Handle	N/A	024-31878-000	024-31878-000	N/A	024-31878-000	024-31878-000
	1	Shaft	N/A	024-31880-000	024-31880-000	N/A	024-31880-000	024-31880-000
2J	1	Ground Lug	N/A	024-31879-000	024-31879-000	N/A	024-31879-000	024-31879-000
5A	2	Surge Suppressor	025-34088-000	025-34088-000	025-34088-000	025-34088-000	025-34088-000	025-34088-000
5BS	2	Fan Contactor	031-02202-000	031-02202-000	031-02202-000	031-02202-000	031-02202-000	031-02202-000
5FS	2	Fan Overload	025-34448-000	025-34448-000	025-34448-000	025-34448-000	025-34448-000	025-34448-000
6A	1	Relay	024-33158-000	024-33158-000	024-33158-000	024-33158-000	024-33158-000	024-33158-000
6B	1	Surge Suppressor	024-33177-000	024-33177-000	024-33177-000	024-33177-000	024-33177-000	024-33177-000
			031-00808-000	031-00808-000	031-00808-000	031-00808-000	031-00808-000	031-00808-000

^s Recommended Spare Part

***Service Note:**

Locate the **PANEL NUMBER** sticker on the upper right hand corner of the power panel, see Figure 8, Page 20, then refer to the appropriate parts list for that number.

Control & Power Panel

POWER PANEL COMPONENTS (CONT'D)

TABLE 6 – POWER PANEL COMPONENTS - YCUL0121-50 (SEE FIGS. 8-11, PAGES 20-23)

Item No.	Qty.	Description	YCUL0121-50		
			Single Point Terminal Block	Single Point Non-Fused Disc. Switch	Single Point Circuit Breaker
1A	3	Compressor Contactor (Sys 1)	*371-03753-132	*371-03753-335	*371-03753-235
1C	3	Surge Suppressor	024-31818-000	024-31818-000	024-31818-000
1E	3	Ground Lug	031-02202-000	031-02202-000	031-02202-000
1F	3	Compressor Overload	025-34455-000	025-34455-000	025-34455-000
2A	3	SP Terminal Block	N/A	N/A	N/A
	1	SP Circuit Breaker	025-34485-000	N/A	N/A
2B	1	SP Non-Fused Disc. Switch	N/A	024-31872-000	N/A
	1	Operator Mechanism	N/A	024-31878-000	024-31878-000
	1	Handle	N/A	024-31880-000	024-31880-000
	1	Shaft	N/A	024-31879-000	024-31879-000
2J	1	Ground Lug	025-34088-000	025-34088-000	025-34088-000
5A	2	Surge Suppressor	031-02202-000	031-02202-000	031-02202-000
5BS	2	Fan Contactor	025-34448-000	025-34448-000	025-34448-000
5FS	2	Fan Overload	024-33158-000	024-33158-000	024-33158-000
6A	1	Relay	024-33177-000	024-33177-000	024-33177-000
6B	1	Surge Suppressor	031-00808-000	031-00808-000	031-00808-000

^s Recommended Spare Part

***Service Note:**
 Locate the **PANEL NUMBER** sticker on the upper right hand corner of the power panel, see Figure 8, Page 20, then refer to the appropriate parts list for that number.

POWER PANEL COMPONENTS (CONT'D)

TABLE 6 – POWER PANEL COMPONENTS - YCUL0125-50 & YCUL0145-50 (SEE FIGS. 8-11, PAGES 20-23)

Item No.	Qty.	Description	YCUL0125-50				YCUL0145-50			
			Multiple Point Sep. Sys. Term. Blocks	Single Point Terminal Block	Single Point Non-Fused Disc. Switch	Single Point Circuit Breaker	Multiple Point Sep. Sys. Term. Blocks	Single Point Terminal Block	Single Point Non-Fused Disc. Switch	Single Point Circuit Breaker
			*371-03752-104	*371-03752-404	*371-03752-304	*371-03752-204	*371-03752-129	*371-03752-429	*371-03752-329	*371-03752-229
1A	2	Compressor Contactor (Sys 1)	024-31817-000	024-31817-000	024-31817-000	024-31817-000	024-31818-000	024-31818-000	024-31818-000	024-31818-000
	2	Compressor Contactor (Sys 2)	024-31817-000	024-31817-000	024-31817-000	024-31817-000	024-31817-000	024-31817-000	024-31817-000	024-31817-000
1B	4	Auxiliary Contact	N/A	N/A	N/A	N/A	024-31814-000	024-31814-000	024-31814-000	024-31814-000
1C	4	Surge Suppressor	031-02202-000	031-02202-000	031-02202-000	031-02202-000	031-02202-000	031-02202-000	031-02202-000	031-02202-000
1E	4	Ground Lug	025-34455-000	025-34455-000	025-34455-000	025-34455-000	025-34455-000	025-34455-000	025-34455-000	025-34455-000
	3	SP Terminal Block	N/A	025-34485-000	N/A	N/A	N/A	025-34482-000	N/A	N/A
2A	1	SP Circuit Breaker	N/A	N/A	N/A	024-31842-000	N/A	N/A	N/A	024-31843-000
	1	SP Non-Fused Disc. Switch	N/A	N/A	024-31872-000	N/A	N/A	N/A	024-31888-000	N/A
	1	Operator Mechanism	N/A	N/A	024-31878-000	024-31878-000	N/A	N/A	024-31878-000	024-31878-000
2B	1	Handle	N/A	N/A	024-31880-000	024-31880-000	N/A	N/A	025-35697-000	025-35697-000
	1	Shaft	N/A	N/A	024-31879-000	024-31879-000	N/A	N/A	025-35696-000	025-35696-000
2J	1	Ground Lug	N/A	025-34088-000	025-34088-000	025-34088-000	N/A	025-34088-000	025-34089-000	025-34088-000
4A	3	MP Terminal Block (Sys 1)	025-35644-000	N/A	N/A	N/A	025-34485-000	N/A	N/A	N/A
	3	MP Terminal Block (Sys 2)	025-35644-000	N/A	N/A	N/A	025-35644-000	N/A	N/A	N/A
4J	2	Ground Lug	025-34088-000	N/A	N/A	N/A	025-34088-000	N/A	N/A	N/A
5A	2	Surge Suppressor	031-02202-000	031-02202-000	031-02202-000	031-02202-000	031-02202-000	031-02202-000	031-02202-000	031-02202-000
5B ^s	2	Fan Contactor	025-34448-000	025-34448-000	025-34448-000	025-34448-000	025-34448-000	025-34448-000	025-34448-000	025-34448-000
5F ^s	2	Fan Overload	024-33158-000	024-33158-000	024-33158-000	024-33158-000	024-33158-000	024-33158-000	024-33158-000	024-33158-000
6A	1	Relay	024-33177-000	024-33177-000	024-33177-000	024-33177-000	024-33177-000	024-33177-000	024-33177-000	024-33177-000
6B	1	Surge Suppressor	031-00808-000	031-00808-000	031-00808-000	031-00808-000	031-00808-000	031-00808-000	031-00808-000	031-00808-000

^s Recommended Spare Part

***Service Note:**
Locate the PANEL NUMBER sticker on the upper right hand corner of the power panel, see Figure 8, Page 20, then refer to the appropriate parts list for that number.

Control & Power Panel

POWER PANEL COMPONENTS (CONT'D)

TABLE 6 – POWER PANEL COMPONENTS - YCUL0161-50 & YCUL0171-50 (SEE FIGS. 8-11, PAGES 20-23)

Item No.	Qty.	Description	YCUL0161-50				YCUL0171-50			
			Multiple Point Sep. Sys. Term. Blocks *371-03752-111	Single Point Terminal Block *371-03752-411	Single Point Non-Fused Disc. Switch *371-03752-311	Single Point Circuit Breaker *371-03752-211	Multiple Point Sep. Sys. Term. Blocks *371-03752-118	Single Point Terminal Block *371-03752-418	Single Point Non-Fused Disc. Switch *371-03752-318	Single Point Circuit Breaker *371-03752-218
1A	2	Compressor Contactor (Sys 1)	024-31818-000	024-31818-000	024-31818-000	024-31818-000	024-31813-000	024-31813-000	024-31813-000	024-31813-000
	2	Compressor Contactor (Sys 2)	024-31818-000	024-31818-000	024-31818-000	024-31818-000	024-31818-000	024-31818-000	024-31818-000	024-31818-000
1B	4	Auxiliary Contact	N/A	N/A	N/A	N/A	024-31814-000	024-31814-000	024-31814-000	024-31814-000
1C	4	Surge Suppressor	031-02202-000	031-02202-000	031-02202-000	031-02202-000	031-02202-000	031-02202-000	031-02202-000	031-02202-000
1E	4	Ground Lug	025-34455-000	025-34455-000	025-34455-000	025-34455-000	025-34455-000	025-34455-000	025-34455-000	025-34455-000
2A	3	SP Terminal Block	N/A	025-34482-000	N/A	N/A	N/A	025-34454-000	N/A	N/A
	1	SP Circuit Breaker	N/A	N/A	N/A	024-31844-000	N/A	N/A	N/A	024-31844-000
	1	SP Non-Fused Disc. Switch	N/A	N/A	024-31888-000	N/A	N/A	N/A	024-31888-000	N/A
	1	Operator Mechanism	N/A	N/A	024-31878-000	024-31878-000	N/A	N/A	024-31878-000	024-31878-000
2B	1	Handle	N/A	N/A	025-35697-000	025-35697-000	N/A	N/A	025-35697-000	025-35697-000
	1	Shaft	N/A	N/A	025-35696-000	025-35696-000	N/A	N/A	025-35696-000	025-35696-000
2J	1	Ground Lug	N/A	025-34088-000	025-34089-000	025-34088-000	N/A	025-34089-000	025-34089-000	025-34088-000
4A	3	MP Terminal Block (Sys 1)	025-34485-000	N/A	N/A	N/A	025-34485-000	N/A	N/A	N/A
	3	MP Terminal Block (Sys 2)	025-34485-000	N/A	N/A	N/A	025-34485-000	N/A	N/A	N/A
4J	2	Ground Lug	025-34455-000	N/A	N/A	N/A	025-34088-000	N/A	N/A	N/A
5A	2	Surge Suppressor	031-02202-000	031-02202-000	031-02202-000	031-02202-000	031-02202-000	031-02202-000	031-02202-000	031-02202-000
5B ^s	2	Fan Contactor	025-34448-000	025-34448-000	025-34448-000	025-34448-000	025-34448-000	025-34448-000	025-34448-000	025-34448-000
5F ^s	2	Fan Overload	024-33158-000	024-33158-000	024-33158-000	024-33158-000	024-33158-000	024-33158-000	024-33158-000	024-33158-000
6A	1	Relay	024-33177-000	024-33177-000	024-33177-000	024-33177-000	024-33177-000	024-33177-000	024-33177-000	024-33177-000
6B	1	Surge Suppressor	031-00808-000	031-00808-000	031-00808-000	031-00808-000	031-00808-000	031-00808-000	031-00808-000	031-00808-000

^s Recommended Spare Part

***Service Note:**
Locate the PANEL NUMBER sticker on the upper right hand corner of the power panel, see Figure 8, Page 20, then refer to the appropriate parts list for that number.

POWER PANEL COMPONENTS (CONT'D)

TABLE 6 – POWER PANEL COMPONENTS - YCUL0185-50 (SEE FIGS. 8-11, PAGES 20-23)

Item No.	Qty.	Description	YCUL0185-50			
			Multiple Point Sep. Sys. Term. Blocks *371-03752-111	Single Point Terminal Block *371-03752-411	Single Point Non-Fused Disc. Switch *371-03752-311	Single Point Circuit Breaker *371-03752-211
1A	2	Compressor Contactor (Sys 1)	024-31818-000	024-31818-000	024-31818-000	024-31818-000
	2	Compressor Contactor (Sys 2)	024-31818-000	024-31818-000	024-31818-000	024-31818-000
1C	4	Surge Suppressor	031-02202-000	031-02202-000	031-02202-000	031-02202-000
1E	4	Ground Lug	025-34455-000	025-34455-000	025-34455-000	025-34455-000
	3	SP Terminal Block	N/A	025-34482-000	N/A	N/A
2A	1	SP Circuit Breaker	N/A	N/A	N/A	024-31844-000
	1	SP Non-Fused Disc. Switch	N/A	N/A	024-31888-000	N/A
2B	1	Operator Mechanism	N/A	N/A	024-31878-000	024-31878-000
	1	Handle	N/A	N/A	025-35697-000	025-35697-000
2J	1	Shaft	N/A	N/A	025-35696-000	025-35696-000
	1	Ground Lug	N/A	025-34088-000	025-34089-000	025-34088-000
4A	3	MP Terminal Block (Sys 1)	025-34485-000	N/A	N/A	N/A
	3	MP Terminal Block (Sys 2)	025-34485-000	N/A	N/A	N/A
4J	2	Ground Lug	025-34455-000	N/A	N/A	N/A
5A	2	Surge Suppressor	031-02202-000	031-02202-000	031-02202-000	031-02202-000
5B ^s	2	Fan Contactor	025-34448-000	025-34448-000	025-34448-000	025-34448-000
5F ^s	2	Fan Overload	024-33158-000	024-33158-000	024-33158-000	024-33158-000
6A	1	Relay	024-33177-000	024-33177-000	024-33177-000	024-33177-000
6B	1	Surge Suppressor	031-00808-000	031-00808-000	031-00808-000	031-00808-000

^s Recommended Spare Part

***Service Note:**
Locate the PANEL NUMBER sticker on the upper right hand corner of the power panel, see Figure 8, Page 20, then refer to the appropriate parts list for that number.

POWER PANEL COMPONENTS (CONT'D)

TABLE 6 – POWER PANEL COMPONENTS - YCUL0211-50 & YCUL0235-50 (SEE FIGS. 8-11, PAGES 20-23)

Item No.	Qty.	Description	YCUL0211-50				YCUL0235-50			
			Multiple Point Sep. Sys. Term. Blocks *371-03751- 104	Single Point Terminal Block *371-03751- 404	Single Point Non-Fused Disc. Switch *371-03751- 304	Single Point Circuit Breaker *371-03751- 204	Multiple Point Sep. Sys. Term. Blocks *371-03751- 111	Single Point Terminal Block *371-03751- 411	Single Point Non-Fused Disc. Switch *371-03751- 311	Single Point Circuit Breaker *371-03751- 211
1A	3	Compressor Contactor (Sys 1)	024-31818-000	024-31818-000	024-31818-000	024-31818-000	024-31818-000	024-31818-000	024-31818-000	024-31818-000
	3	Compressor Contactor (Sys 2)	024-31817-000	024-31817-000	024-31817-000	024-31817-000	024-31818-000	024-31818-000	024-31818-000	024-31818-000
1C	6	Surge Suppressor	031-02202-000	031-02202-000	031-02202-000	031-02202-000	031-02202-000	031-02202-000	031-02202-000	031-02202-000
1E	6	Ground Lug	025-34455-000	025-34455-000	025-34455-000	025-34455-000	025-34455-000	025-34455-000	025-34455-000	025-34455-000
	3	SP Terminal Block	N/A	025-34454-000	N/A	N/A	N/A	025-34454-000	N/A	N/A
2A	1	SP Circuit Breaker	N/A	N/A	N/A	024-31649-000	N/A	N/A	N/A	024-31820-000
	1	SP Non-Fused Disc. Switch	N/A	N/A	024-31888-000	N/A	N/A	N/A	024-31870-000	N/A
2B	1	Operator Mechanism	N/A	N/A	024-31878-000	024-31878-000	N/A	N/A	024-31878-000	024-31878-000
	1	Handle	N/A	N/A	025-35697-000	025-35697-000	N/A	N/A	025-35697-000	025-35697-000
2J	1	Shaft	N/A	N/A	025-35696-000	025-35696-000	N/A	N/A	025-35696-000	025-35696-000
	1	Ground Lug	N/A	025-34089-000	025-34089-000	025-34089-000	N/A	025-34089-000	025-34085-000	025-34089-000
4A	3	MP Terminal Block (Sys 1)	025-34485-000	N/A	N/A	N/A	025-34485-000	N/A	N/A	N/A
	3	MP Terminal Block (Sys 2)	025-34485-000	N/A	N/A	N/A	025-34485-000	N/A	N/A	N/A
4J	2	Ground Lug	025-34088-000	N/A	N/A	N/A	025-34088-000	N/A	N/A	N/A
5A	4	Surge Suppressor	031-02202-000	031-02202-000	031-02202-000	031-02202-000	031-02202-000	031-02202-000	031-02202-000	031-02202-000
5B ^s	4	Fan Contactor	025-34448-000	025-34448-000	025-34448-000	025-34448-000	025-34448-000	025-34448-000	025-34448-000	025-34448-000
5F ^s	4	Fan Overload	025-34449-000	025-34449-000	025-34449-000	025-34449-000	025-34449-000	025-34449-000	025-34449-000	025-34449-000
6A	2	Relay	024-33177-000	024-33177-000	024-33177-000	024-33177-000	024-33177-000	024-33177-000	024-33177-000	024-33177-000
6B	2	Surge Suppressor	031-00808-000	031-00808-000	031-00808-000	031-00808-000	031-00808-000	031-00808-000	031-00808-000	031-00808-000

^s Recommended Spare Part

***Service Note:**
Locate the PANEL NUMBER sticker on the upper right hand corner of the power panel, see Figure 8, Page 20, then refer to the appropriate parts list for that number.

POWER PANEL COMPONENTS (CONT'D)

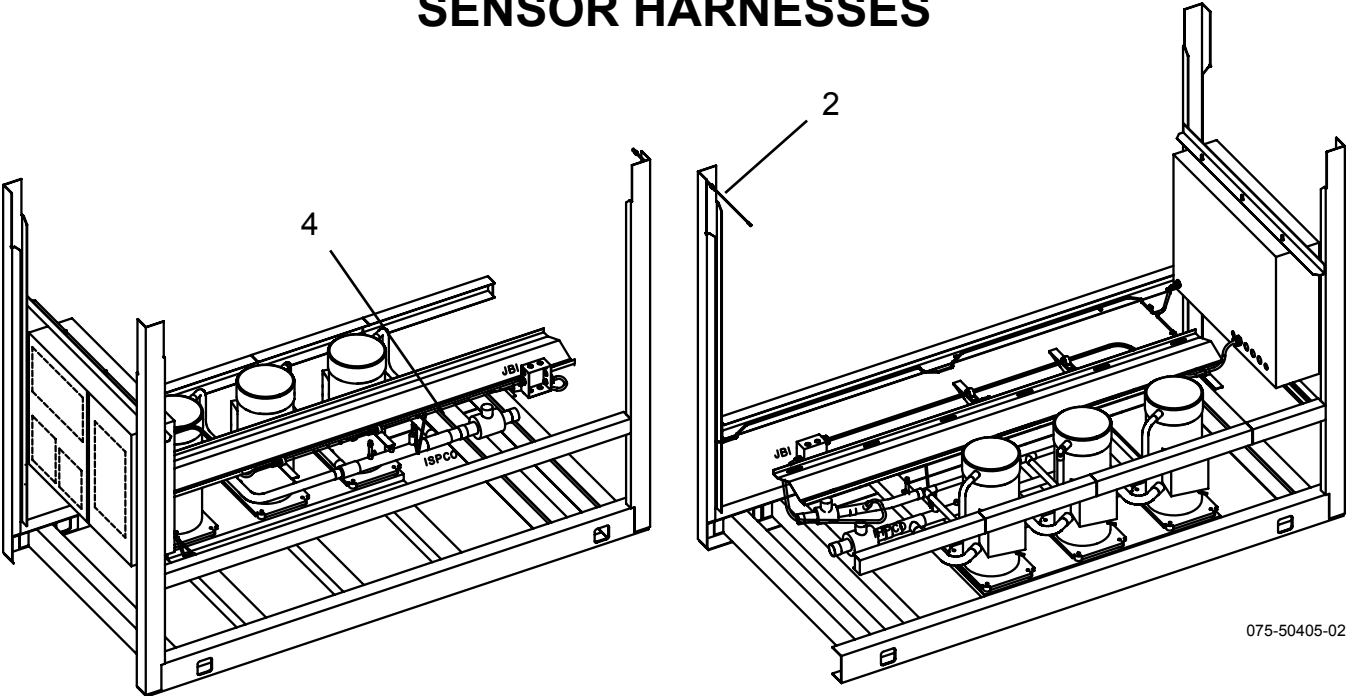
TABLE 6 – POWER PANEL COMPONENTS - YCUL0255-50 & YCUL0275-50 (SEE FIGS. 8-11, PAGES 20-23)

Item No.	Qty.	Description	YCUL0255-50				YCUL0275-50			
			Multiple Point Sep. Sys. Term. Blocks	Single Point Terminal Block	Single Point Non-Fused Disc. Switch	Single Point Circuit Breaker	Multiple Point Sep. Sys. Term. Blocks	Single Point Terminal Block	Single Point Non-Fused Disc. Switch	Single Point Circuit Breaker
			*371-03751-103	*371-03751-403	*371-03751-303	*371-03751-218	*371-03751-110	*371-03751-425	*371-03751-310	*371-03751-225
1A	3	Compressor Contactor (Sys 1)	024-31813-000	024-31813-000	024-31813-000	024-31813-000	024-31813-000	024-31813-000	024-31813-000	024-31813-000
	3	Compressor Contactor (Sys 2)	024-31818-000	024-31818-000	024-31818-000	024-31818-000	024-31813-000	024-31813-000	024-31813-000	024-31813-000
1B	6	Auxiliary Contact	024-31814-000	024-31814-000	024-31814-000	024-31814-000	024-31814-000	024-31814-000	024-31814-000	024-31814-000
1C	6	Surge Suppressor	031-02202-000	031-02202-000	031-02202-000	031-02202-000	031-02202-000	031-02202-000	031-02202-000	031-02202-000
1E	6	Ground Lug	025-34455-000	025-34455-000	025-34455-000	025-34455-000	025-34455-000	025-34455-000	025-34455-000	025-34455-000
2A	3	SP Terminal Block	N/A	025-34454-000	N/A	N/A	N/A	N/A	N/A	N/A
	1	SP Circuit Breaker	N/A	N/A	N/A	024-31820-000	N/A	N/A	N/A	024-31851-000
2B	1	SP Non-Fused Disc. Switch	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	1	Operator Mechanism	N/A	N/A	024-31878-000	024-31878-000	N/A	N/A	024-31870-000	024-31878-000
	1	Handle	N/A	N/A	025-35697-000	025-35697-000	N/A	N/A	025-35697-000	025-35697-000
2J	1	Shaft	N/A	N/A	025-35696-000	025-35696-000	N/A	N/A	025-35696-000	025-35696-000
	1	Ground Lug	N/A	025-34089-000	025-34085-000	025-34089-000	N/A	025-34085-000	025-34085-000	025-34085-000
4A	3	MP Terminal Block (Sys 1)	025-34482-000	N/A	N/A	N/A	025-34482-000	N/A	N/A	N/A
	3	MP Terminal Block (Sys 2)	025-34485-000	N/A	N/A	N/A	025-34482-000	N/A	N/A	N/A
4J	2	Ground Lug	025-34088-000	N/A	N/A	N/A	025-34088-000	N/A	N/A	N/A
5A	4	Surge Suppressor	031-02202-000	031-02202-000	031-02202-000	031-02202-000	031-02202-000	031-02202-000	031-02202-000	031-02202-000
5B ^s	4	Fan Contactor	025-34448-000	025-34448-000	025-34448-000	025-34448-000	025-34448-000	025-34448-000	025-34448-000	025-34448-000
5F ^s	4	Fan Overload	025-34449-000	025-34449-000	025-34449-000	025-34449-000	025-34449-000	025-34449-000	025-34449-000	025-34449-000
6A	2	Relay	024-33177-000	024-33177-000	024-33177-000	024-33177-000	024-33177-000	024-33177-000	024-33177-000	024-33177-000
6B	2	Surge Suppressor	031-00808-000	031-00808-000	031-00808-000	031-00808-000	031-00808-000	031-00808-000	031-00808-000	031-00808-000

^s Recommended Spare Part

***Service Note:**
Locate the PANEL NUMBER sticker on the upper right hand corner of the power panel, see Figure 8, Page 20, then refer to the appropriate parts list for that number.

SENSOR HARNESSSES



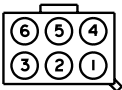
075-50405-02

FIG. 12 – HARNESS LAYOUT - YCUL0121 SHOWN (REF. TABLE 7)

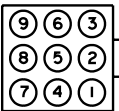
TABLE 7 – SENSOR HARNESSSES - YCUL0045-YCUL0121 (SEE FIG. 12)

Board Location	Cable Length	Cable No.	Wire Color	Plug Pin No.	Function	Harness Assembly Part Number
MICRO P6	192"	2	Black	4	Outside Air Temperature	375-30434-406
			Red	7		
			Drain	1		
MICRO P4	140"	4	Red	5	System #1 Suction Pressure	375-30434-401
			White	10		
			Black	1		
			Drain	2		
	204"	Not Shown	Red	7	System #1 Discharge Pressure	375-30432-403
			White	12		
MICRO P5	Optional Kit	115	Black	8	System #1 Suction Temperature Sensor	371-37966-281
			Black	9		
			Drain	2		
			Red	12		

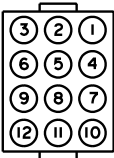
Control & Power Panel



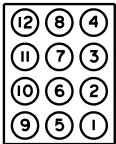
HOUSING - PLUG
WIRING END
6-PIN
(025-19670-000)



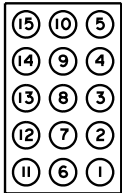
HOUSING - PLUG
WIRING END
9-PIN
(025-28383-000)



HOUSING - PLUG
WIRING END
12 Pin Plug
(025-28384-000)



HOUSING - PLUG
WIRING END
12 Pin Plug
(025-21196-000)

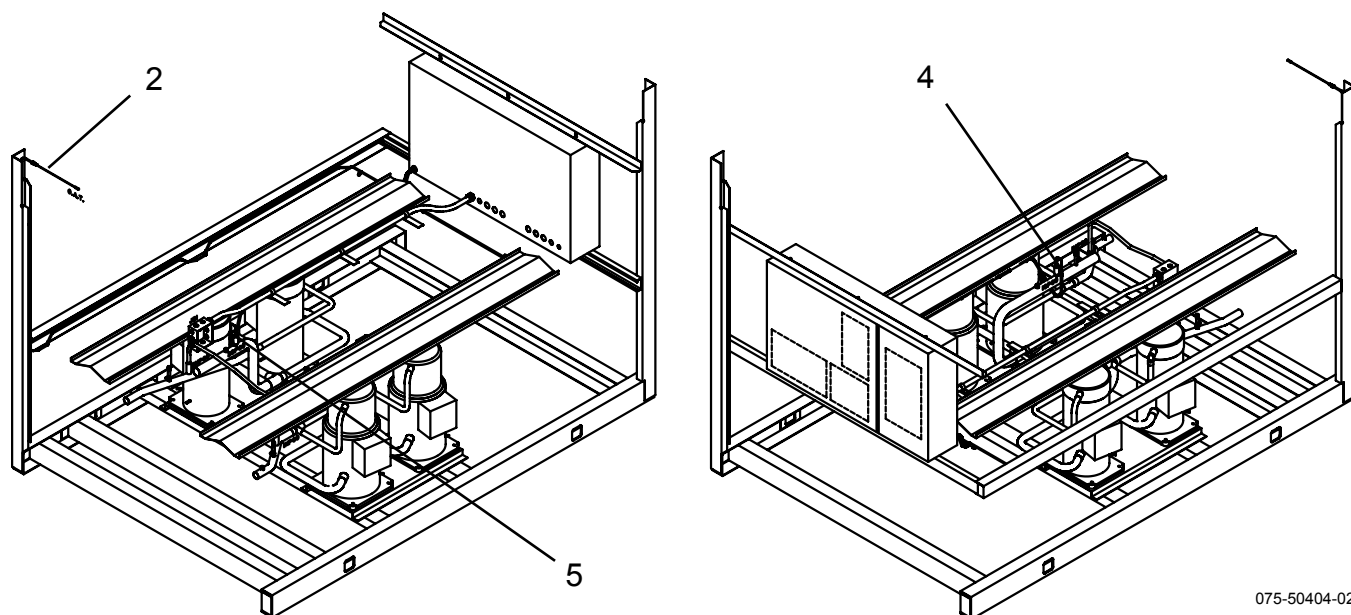


HOUSING - PLUG
WIRING END
15 Pin Plug
(025-28385-000)

FIG. 12 – SENSOR HOUSING PART NUMBERS

45622-003b

SENSOR HARNESSES - CONT'D



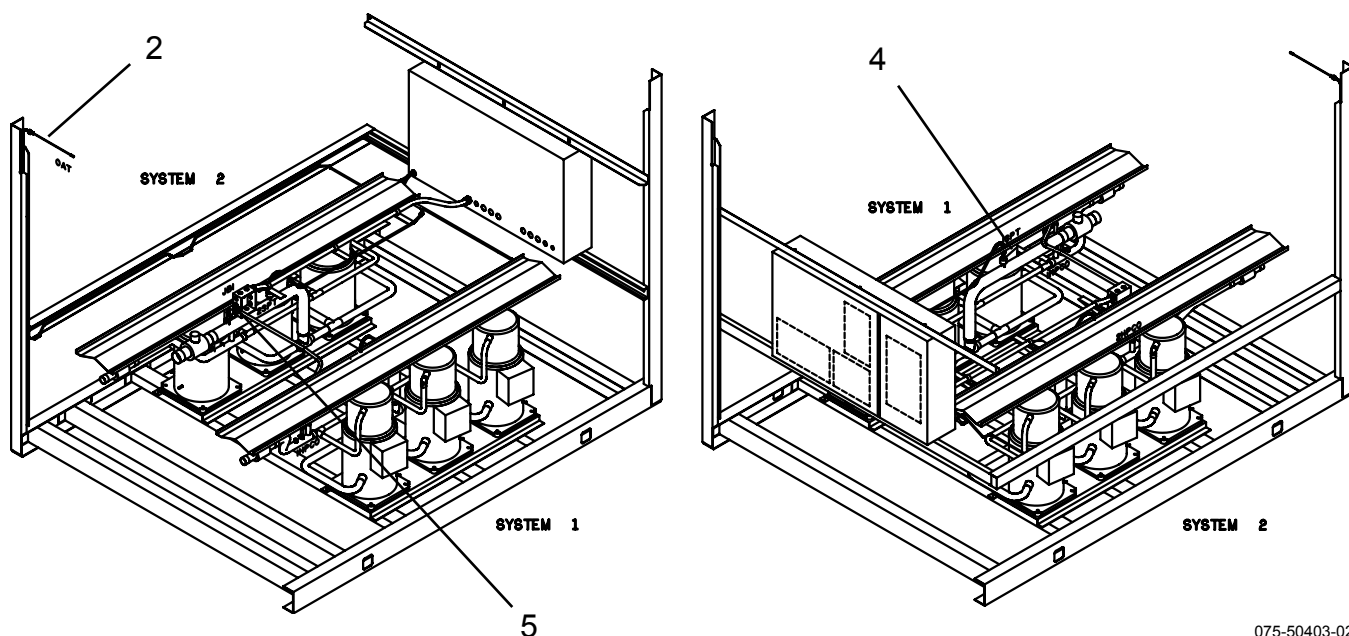
075-50404-02

FIG. 13 – HARNESS LAYOUT - YCUL0125-YCUL0185 SHOWN (REF. TABLE 8)

TABLE 8 – SENSOR HARNESSES - YCUL0125-YCUL0185 (SEE FIG. 13)

Board Location	Cable Length	Cable No.	Wire Color	Plug Pin No.	Function	Harness Assembly Part Number
MICRO P6	204"	2	Black	4	Outside Air Temperature	375-30433-406
			Red	7		
			Drain	1		
MICRO P4	150"	4	Red	5	System #1 Suction Pressure	375-30433-401
			White	10		
			Black	1		
			Drain	2		
	204"	Not Shown	Red	7	System #1 Discharge Pressure	375-30432-403
			White	12		
			Black	8		
			Drain	9		
MICRO P4	110"	5	Red	5	System #2 Suction Pressure	375-30433-402
			White	10		
			Black	1		
			Drain	2		
	204"	Not Shown	Red	7	System #2 Discharge Pressure	375-30432-404
			White	12		
			Black	8		
			Drain	9		
MICRO P5	Optional Kit	115	Red	12	System #1 Suction Temperature Sensor	371-37966-281
			Black	7		
			Drain	2		
	Optional Kit	116	Red	13	System #2 Suction Temperature Sensor	371-37966-282
			Black	8		
			Drain	3		

SENSOR HARNESSES - CONT'D



075-50403-02

FIG. 14 – HARNESS LAYOUT - YCUL0211-YCUL0275 SHOWN (REF. TABLE 9)

TABLE 9 – SENSOR HARNESSES - YCUL0211-YCUL0275 (SEE FIG. 14)

Board Location	Cable Length	Item Number	Wire Color	Plug Pin No.	Function	Harness Assembly Part Number
MICRO P6	204"	2	Black	4	Outside Air Temperature	375-30432-406
			Red	7		
			Drain	1		
MICRO P4	160"	4	Red	5	System #1 Suction Pressure	375-30432-401
			White	10		
			Black	1		
			Drain	2		
	204"	Not Shown	Red	7	System #1 Discharge Pressure	375-30432-403
			White	12		
			Black	8		
			Drain	9		
MICRO P4	120"	5	Red	5	System #2 Suction Pressure	375-30432-402
			White	10		
			Black	1		
			Drain	2		
	204"	Not Shown	Red	7	System #2 Discharge Pressure	375-30432-404
			White	12		
			Black	8		
			Drain	9		
MICRO P5	Optional Kit	115	Red	12	System #1 Suction Temperature Sensor	371-37966-281
			Black	7		
			Drain	2		
	Optional Kit	116	Red	13	System #2 Suction Temperature Sensor	371-37966-282
			Black	8		
			Drain	3		

TRANSDUCERS, PRESSURE CUTOUTS AND TEMP SENSORS

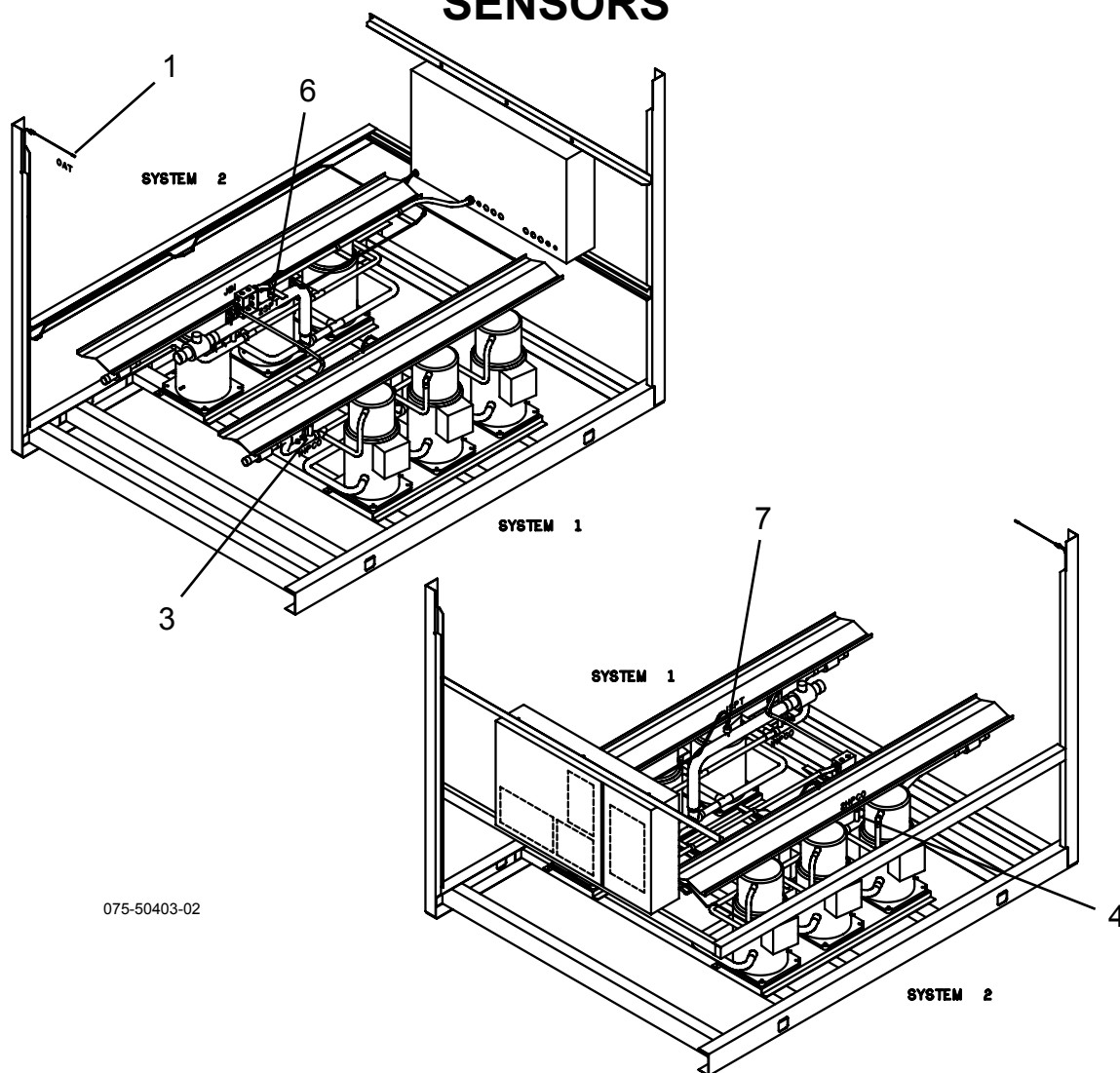


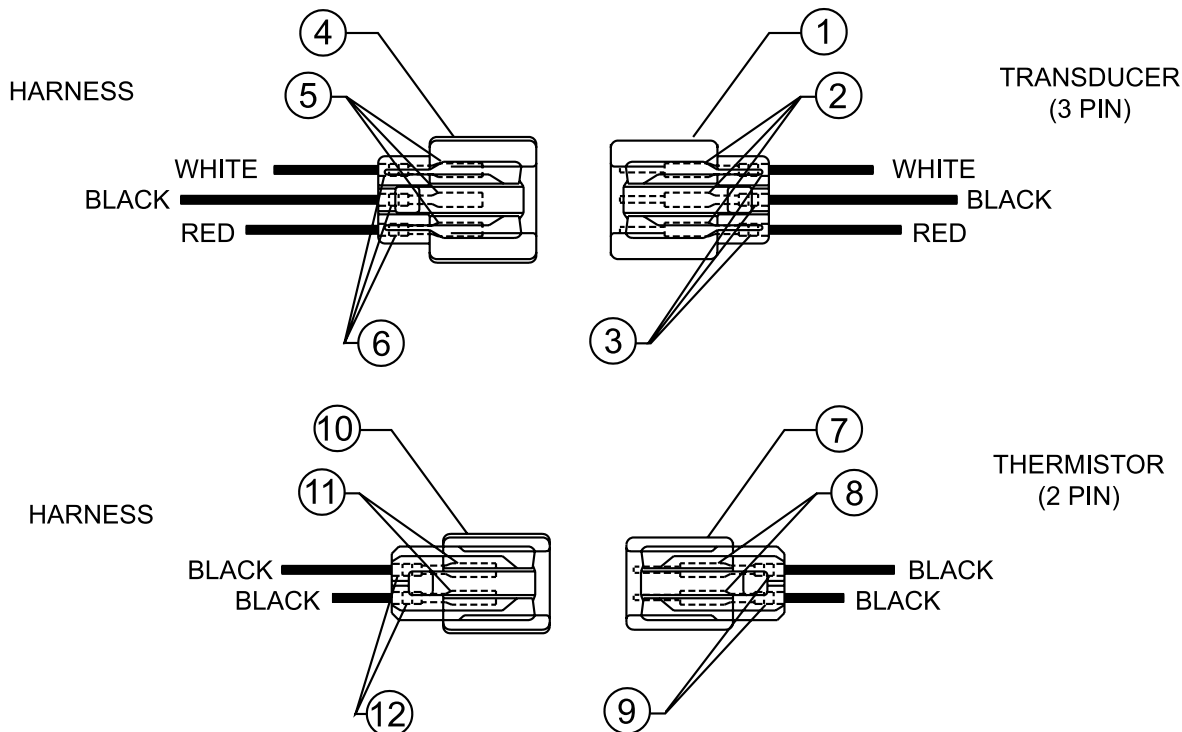
FIG. 15 – TRANSDUCERS, PRESSURE CUTOUTS AND TEMP SENSORS (REF. TABLE 10)

TABLE 10 – TRANSDUCERS, PRESSURE CUTOUTS AND TEMP SENSORS (SEE FIG. 15)

Item Number	Quantity	Description	Voltage Code	Part Number
1 ^S	1 per unit	Sensor, Outside Air Temperature	All	025-28663-001
2	1 per sys	Sensor, Suction Temp. (Not Shown)	All	025-28935-000
3 ^S	1 per sys	High Pressure Cutout Switch - YCUL0045-0121	All	375-00453-059
		High Pressure Cutout Switch - YCUL0125-0185	All	375-00453-057
4 ^S	1 per sys	High Pressure Cutout Switch - YCUL0211-0275	All	375-00453-058
5	-	Compound, Heat Conductive (Not Shown)	All	013-00898-000
6 ^S	1 per sys	Transducer, Suction Pressure (0-200psi)	All	025-29583-000
7 ^S	1 per sys	Transducer, Discharge Pressure (0-400psi)	All	025-29139-001
8 ^S	1 per sys	Sensor, Discharge Air Temp. (Not Shown)	All	025-28935-000

^S Recommended Spare Part

TRANSDUCER AND THERMISTOR WIRE HARNESS CONNECTORS - FIELD REPLACEMENT PART NUMBERS



02492-2b

FIG. 16 – TRANSDUCER AND THERMISTOR WIRE HARNESS CONNECTORS - FIELD REPLACEMENT PART NUMBERS (REF. TABLE 11)

TABLE 11 – TRANSDUCER AND THERMISTOR WIRE HARNESS CONNECTORS - FIELD REPLACEMENT PART NUMBERS (SEE FIG. 16)

Item No.	Location	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	Transducer	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

^s Recommended Spare Part

YCU L CHILLER OPTIONS – KITS

TABLE 12 – FIELD INSTALLED OPTIONS PART NUMBERS

MODEL NUMBER YCU L	VIBRATION ISOLATORS SPRING 1" DEFLEC. ALUMINUM* & BLACK FIN	VIBRATION ISOLATORS SPRING 2" (SEISMIC) ALUMINUM* & BLACK FIN	VIBRATION ISOLATOR PAD 1/2" DEFLEC. NEOPRENE	VIBRATION ISOLATORS SPRING 1" DEFLEC. COPPER*	VIBRATION ISOLATORS SPRING 2" (SEISMIC) COPPER*	VIBRATION ISOLATOR PAD 1/2" DEFLEC. NEOPRENE	HOT GAS BY-PASS**	BAS/EMS TEMPERA- TURE RESET / OFFSET
MODEL #	029-23707	029-24147	029-23706	029-23707	029-24147	029-23706	375-32274	375-30914
0045	-317	-117	-159	-321	-118	-159	-109	-000
0061	-317	-117	-159	-321	-118	-159	-101	
0081	-318	-118	-160	-321	-118	-159	-102	
0095	-318	-118	-160	-321	-118	-166	-103	
0121	-312	-100	-152	-322	-124	-152	-103	
0125	-320	-119	-152	-320	-125	-152	-104	
0145	-320	-119	-152	-320	-125	-152	-105	
0161	-320	-119	-152	-320	-125	-152	-105	
0171	-320	-119	-152	-309	-125	-146	-105	
0185	-320	-119	-152	-309	-125	-146	-105	
0211	-305	-120	-146	-296	-104	-146	-107	
0235	-305	-120	-146	-296	-104	-146	-107	
0255	-296	-104	-146	-296	-112	-146	-108	
0275	-296	-104	-146	-296	-112	-146	-108	

* Note: Condenser Coil Fin Material.

** Note: Hot Gas By-Pass Solenoid Valve Only: 025-34133-000

TABLE 12A – HOT GAS BY-PASS SOLENOID VALVE (025-34133-000) COIL REPLACEMENT

MODEL NUMBERS	VENDOR	DESCRIPTION	PART NUMBER
ALL	SPORLAN	COIL ONLY, SOLENOID VALVE	025-35151-000
	ALCO		025-35152-000
	DANFOSS		025-35169-000

YCUL CHILLER OPTIONS – KITS (CONT'D)

TABLE 12 (CONT'D) – FIELD INSTALLED OPTIONS PART NUMBERS

MODEL NUMBER YCUL	LOW AMBIENT KIT	HIGH AMBIENT KIT	DEHYDRATOR KIT	CHICAGO RELIEF VALVE	MOTOR CURRENT MODULE KIT	OPTIVIEW REMOTE CONTROL PANEL	SUCTION TEMP SENSOR KIT	DISCHARGE AIR SENSOR KIT					
MODEL #	375-30910	375-	475-33401	022-	371-04101	371-02750	475-	475-33729					
0045	-106*	28556-000*	-001	08863-000	-001	-101	33751-000	-000					
0061													
0081		28553-000*											
0095													
0121													
0125	-108**	31802-000**	-002		-000		33753-000						
0145													
0161													
0171													
0185		28549-000**	-003	10071-000									
0211													
0235													
0255													
0275													

* Note: Discharge Pressure Transducer Kit 371-02458-001 is required to complete both High and Low Ambient Kits.

** Note: Discharge Pressure Transducer Kit 371-02458-002 is required to complete both High and Low Ambient Kits.

TABLE 12B – CONTROL TRANSFORMER KIT

MODEL NUMBERS	VOLTAGE	DESCRIPTION	PART NUMBER
YCUL0045-YCUL0275	-50	KIT, CONTROL TRANSFORMER	375-30909-107

ENCLOSURE KIT OPTIONS

TABLE 13 – ENCLOSURE KIT OPTIONS - TOP AND BOTTOM SECTIONS
(SEE FIGS. 17-20, PAGES 40-43)

MODEL NUMBER YCUL-	WIRE ENCLOSURE	LOUVERED ENCLOSURE	WIRE / LOUVERED ENCLOSURE	LOUVERED ENCLOSURE CONDENSER ONLY
0045 (Top)	475-31869-000	475-31867-000	475-31867-000	475-31867-000
0045 (Bottom)	475-31870-000	475-31868-000	475-31870-000	N/A
0061 (Top)	475-31869-000	475-31867-000	475-31867-000	475-31867-000
0061 (Bottom)	475-31870-000	475-31868-000	475-31870-000	N/A
0081 (Top)	475-31834-000	475-31832-000	475-31832-000	475-31832-000
0081 (Bottom)	475-31835-000	475-31833-000	475-31835-000	N/A
0095 (Top)	475-31834-000	475-31832-000	475-31832-000	475-31832-000
0095 (Bottom)	475-31835-000	475-31833-000	475-31835-000	N/A
0121 (Top)	475-31834-000	475-31832-000	475-31832-000	475-31832-000
0121 (Bottom)	475-31835-000	475-31833-000	475-31835-000	N/A
0125 (Top)	475-31297-000	475-30996-000	475-30996-000	475-30996-000
0125 (Bottom)	475-31298-000	475-31299-000	475-31298-000	N/A
0145 (Top)	475-31297-000	475-30996-000	475-30996-000	475-30996-000
0145 (Bottom)	475-31298-000	475-31299-000	475-31298-000	N/A
0161 (Top)	475-31297-000	475-30996-000	475-30996-000	475-30996-000
0161 (Bottom)	475-31298-000	475-31299-000	475-31298-000	N/A
0171 (Top)	475-31297-000	475-30996-000	475-30996-000	475-30996-000
0171 (Bottom)	475-31298-000	475-31299-000	475-31298-000	N/A
0185 (Top)	475-31297-000	475-30996-000	475-30996-000	475-30996-000
0185 (Bottom)	475-31298-000	475-31299-000	475-31298-000	N/A
0211 (Top)	475-31808-000	475-31806-000	475-31806-000	475-31806-000
0211 (Bottom)	475-31809-000	475-31807-000	475-31809-000	N/A
0235 (Top)	475-31808-000	475-31806-000	475-31806-000	475-31806-000
0235 (Bottom)	475-31809-000	475-31807-000	475-31809-000	N/A
0255 (Top)	475-31808-000	475-31806-000	475-31806-000	475-31806-000
0255 (Bottom)	475-31809-000	475-31807-000	475-31809-000	N/A
0275 (Top)	475-31808-000	475-31806-000	475-31806-000	475-31806-000
0275 (Bottom)	475-31809-000	475-31807-000	475-31809-000	N/A

ENCLOSURE KIT OPTIONS (CONT'D)

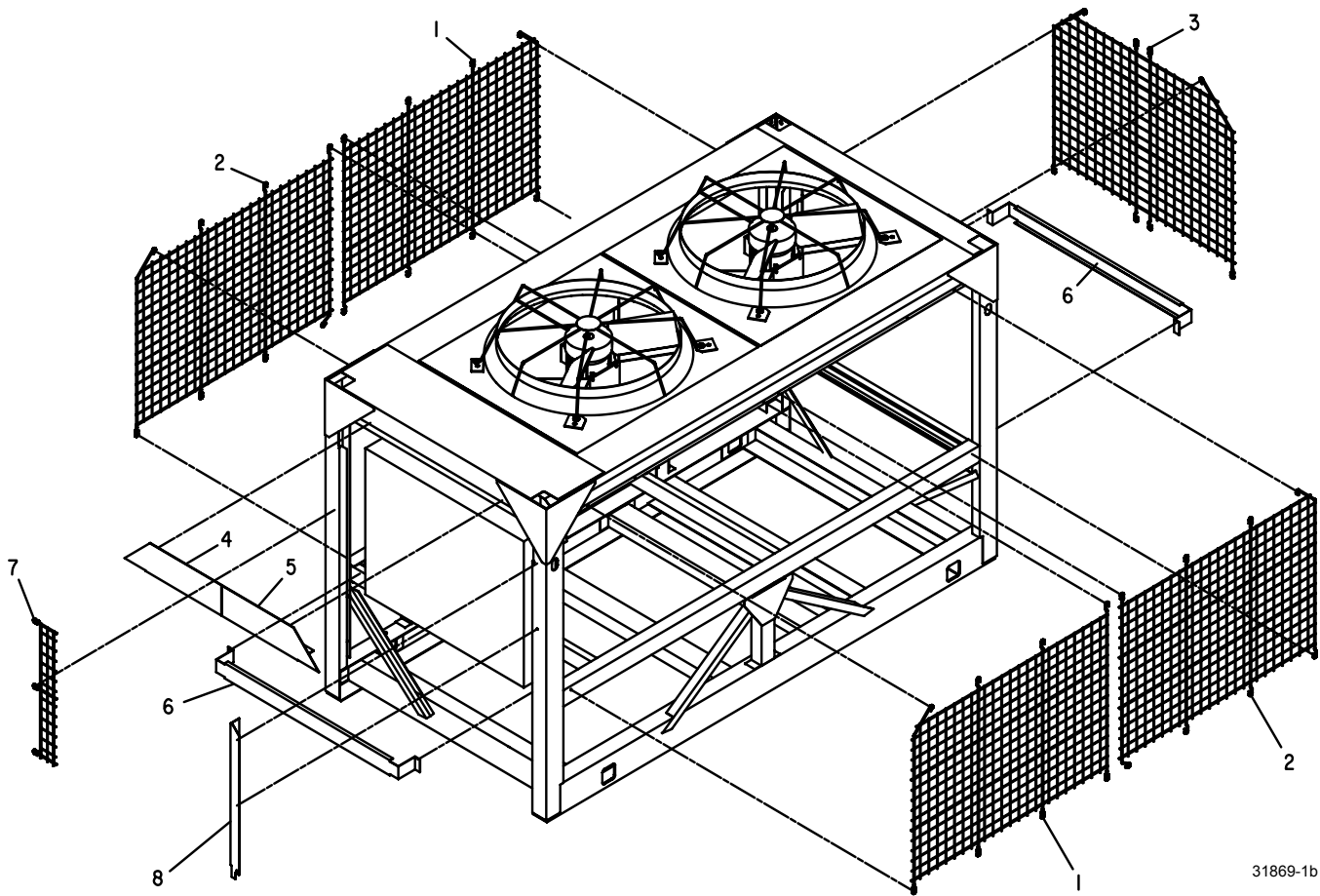


FIG. 17 – WIRE ENCLOSURE (TOP SECTIONS) - YCUL0045 AND YCUL0061 SHOWN

TABLE 14 – WIRE ENCLOSURE (Top Sections)

WIRE ENCLOSURE (TOP SECTIONS)		YCUL0045 & YCUL0061		YCUL0081, 0095 & YCUL0121		YCUL0125, 0145, 0161, 0171 & YCUL0185		YCUL0211, 0080 0255 & YCUL0130	
ITEM #	DESCRIPTION	475-31869-000	QTY	475-31834-000	QTY	475-31297-000	QTY	475-31808-000	QTY
1	Grille	026-36573-000	2	026-36562-000	2	026-36547-000	2	026-36556-000	2
2	Grille	026-31883-000	2	026-36563-000	2	026-36551-000	2	026-36557-000	2
3	Grille	026-31884-000	1	026-36564-000	1	026-36549-000	1	026-36558-000	1
4	Grille, Front	N/A	-	026-36595-000	1	N/A	-	026-36594-000	1
	Panel, Front	075-28557-000	1	N/A	-	075-31803-000	1	N/A	-
5	Panel, Front	075-28558-000	1	N/A	-	075-31286-000	1	N/A	-
6	Bracket	075-31844-000	2	075-31844-000	2	075-31284-000	1	075-31818-000	2
7	Grille	026-36578-000	1	026-36565-000	1	026-36555-000	2	026-36559-000	2
8	Panel	075-31881-000	1	075-31853-000	1	N/A	-	N/A	-

ENCLOSURE KIT OPTIONS (CONT'D)

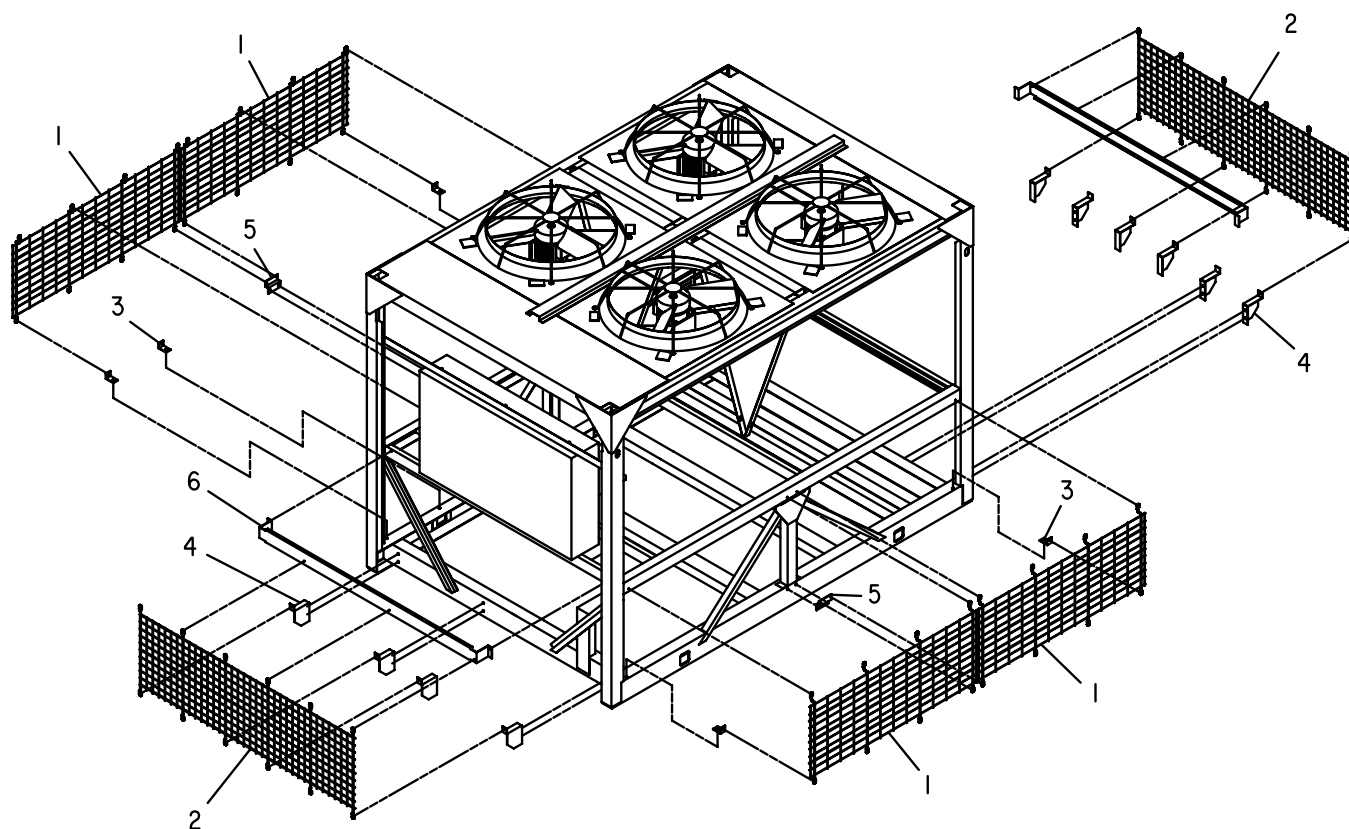


FIG. 18 – WIRE ENCLOSURE (BOTTOM SECTIONS) - YCUL0125, 0145, 0161, 0171 & YCUL0185 SHOWN

TABLE 15 – WIRE ENCLOSURE (Bottom Sections)

WIRE ENCLOSURE (BOTTOM SECTIONS)		YCUL0045 & YCUL0061		YCUL0081, 0095 & YCUL0121		YCUL0125, 0145, 0161, 0171 & YCUL0185		YCUL0211, 0235 0255 & YCUL0275	
ITEM #	DESCRIPTION	475-31870-000	QTY	475-31835-000	QTY	475-31298-000	QTY	475-31809-000	QTY
1	Grille	026-36576-000	3	026-36566-000	3	026-36548-000	4	026-36548-000	4
2	Grille	026-36577-000	2	026-36567-000	2	026-36550-000	2	026-36560-000	2
3	Clip	075-31285-000	12	075-31285-000	12	075-31285-000	12	075-31285-000	12
4	Bracket	075-31711-000	2	075-31711-000	2	075-31711-000	2	075-31711-000	2
5	Bracket	075-31294-000	8	075-31294-000	8	075-31294-000	10	075-31294-000	16
6	Bracket	N/A	-	N/A	-	075-31284-000	1	N/A	-
11	Grille	026-36779-000	1	026-36780-000	1	N/A	-	N/A	-

ENCLOSURE KIT OPTIONS (CONT'D)

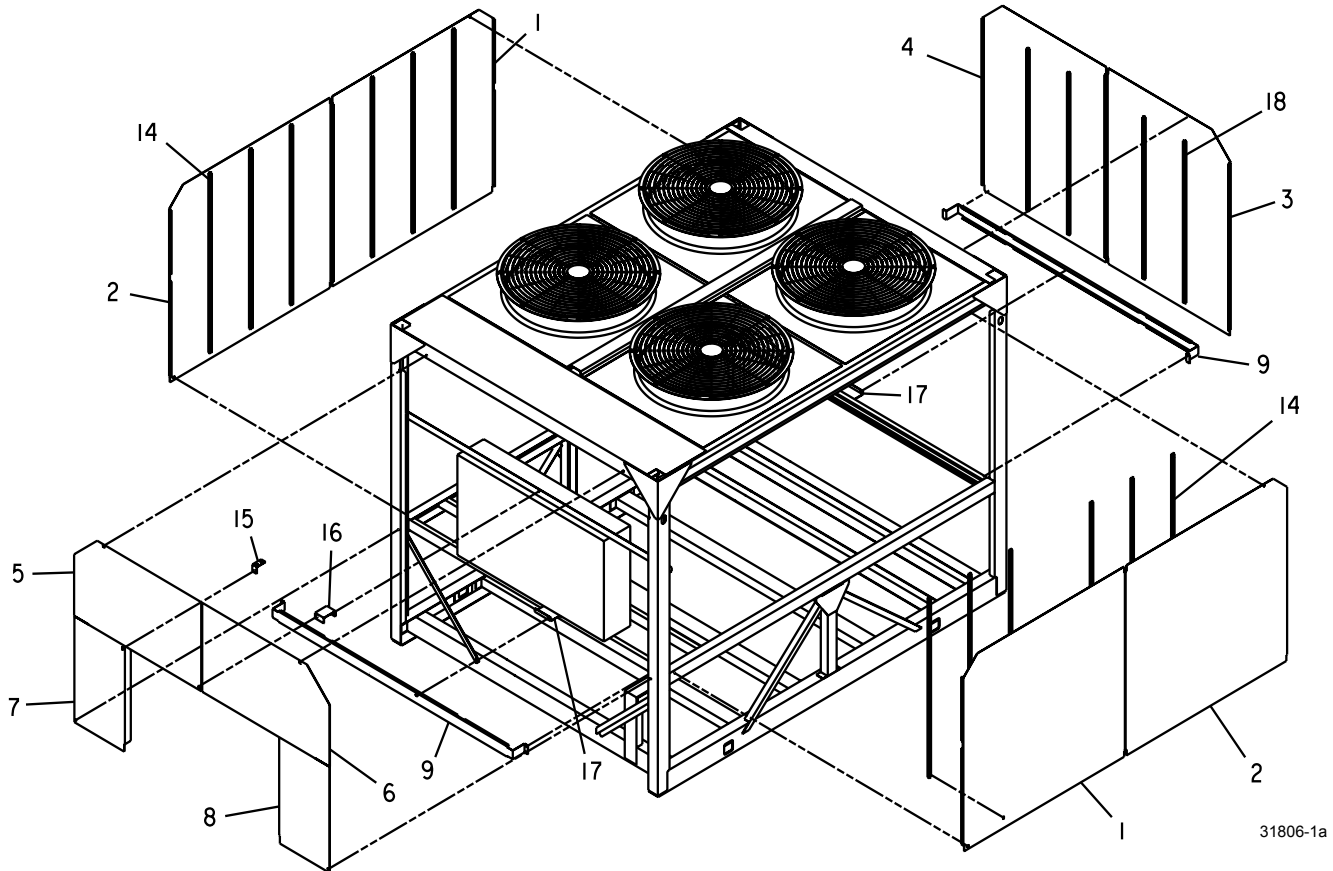
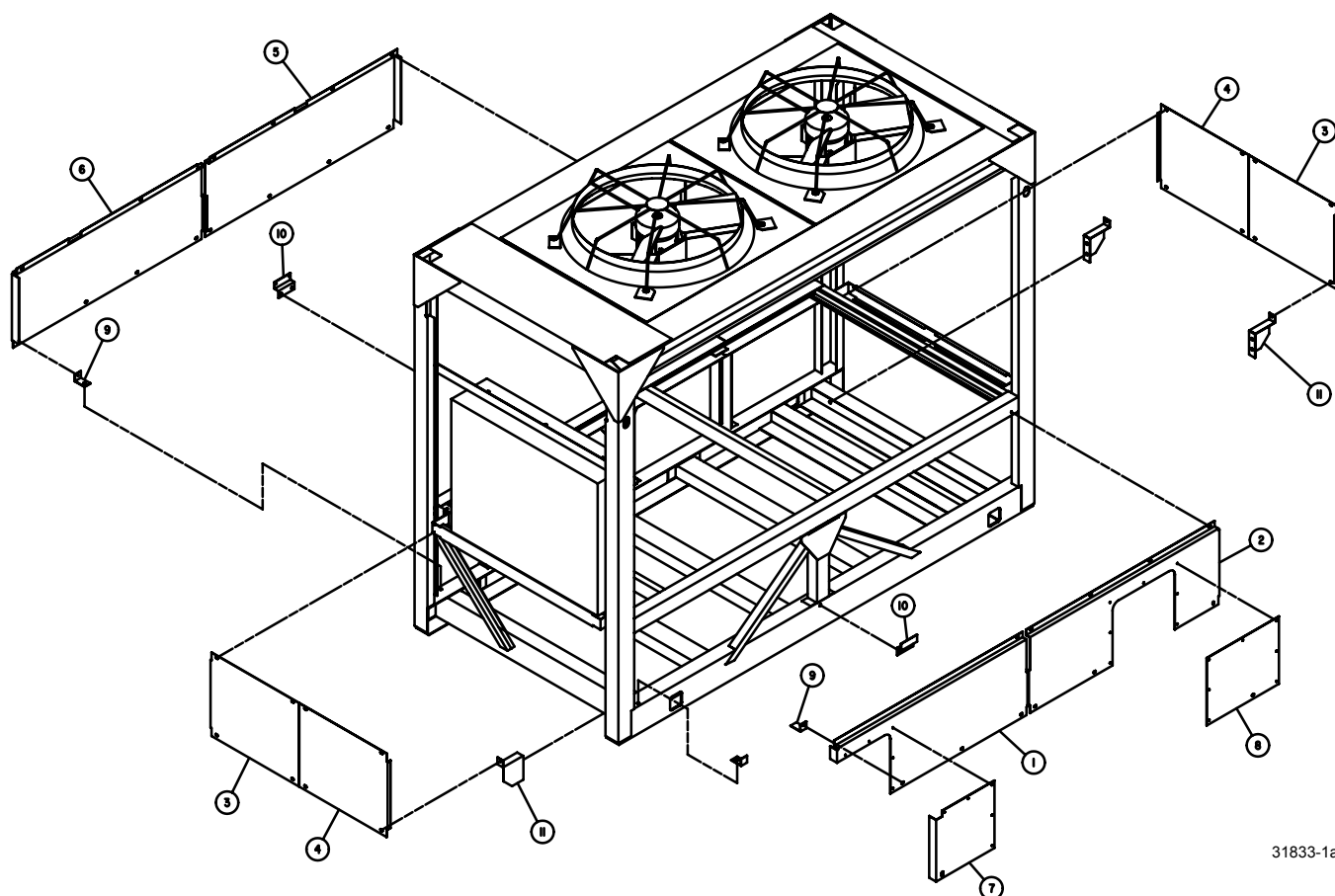


FIG. 19 – LOUVERED ENCLOSURE (TOP SECTIONS) - YUL0171 SHOWN

TABLE 16 – LOUVERED ENCLOSURE (Top Sections)

LOUVERED ENCLOSURE (TOP SECTIONS)		YCUL0045 & YCUL0061		YCUL0081, 0095 & YCUL0121		YCUL0125, 0145, 0161, 0171 & YCUL0185		YCUL0211, 0080 0255 & YCUL0275	
ITEM #	DESCRIPTION	475-31867-000	QTY	475-31832-000	QTY	475-30996-000	QTY	475-31806-000	QTY
1	Panel, Side	075-31875-000	1	075-31840-000	1	075-30682-000	2	075-31811-000	2
2	Panel, Side	075-31874-000	1	075-31839-000	1	075-30681-000	2	075-31810-000	2
3	Panel, Rear	075-31876-000	1	075-31842-000	1	075-31283-000	1	075-31816-000	1
4	Panel, Rear	075-31877-000	1	075-31843-000	1	075-31717-000	1	075-31817-000	1
5	Bracket	075-31844-000	2	075-31844-000	2	075-31284-000	2	075-31818-000	2
6	Panel, Side	075-31878-000	1	075-31854-000	1	N/A	-	N/A	-
7	Panel, Side	075-31879-000	1	075-31855-000	1	N/A	-	N/A	-
8	Panel	075-31880-000	1	075-31852-000	1	075-31295-000	1	075-31812-000	1
9	Panel	075-31881-000	1	075-31853-000	1	075-31296-000	1	075-31813-000	1
10	Panel, Front	075-28557-000	1	075-31845-000	1	075-31803-000	1	075-31814-000	1
11	Panel, Front	075-28558-000	1	075-31846-000	1	075-31286-000	1	075-31815-000	1
12	Support	075-37936-000	2	075-37936-000	2	075-37936-000	2	075-37936-000	2
13	Support	075-37945-000	1	075-37945-000	1	N/A	-	N/A	-
14	Clip	N/A	-	N/A	-	075-37938-000	2	075-37938-000	2
15	Bracket	N/A	-	075-37937-000	1	075-37937-000	1	075-37937-000	1
16	Channel	075-37947-000	10	075-37946-000	10	075-37943-000	12	075-37939-000	12
17	Channel	N/A	-	N/A	-	075-37944-000	4	075-37940-000	4

ENCLOSURE KIT OPTIONS (CONT'D)



31833-1a

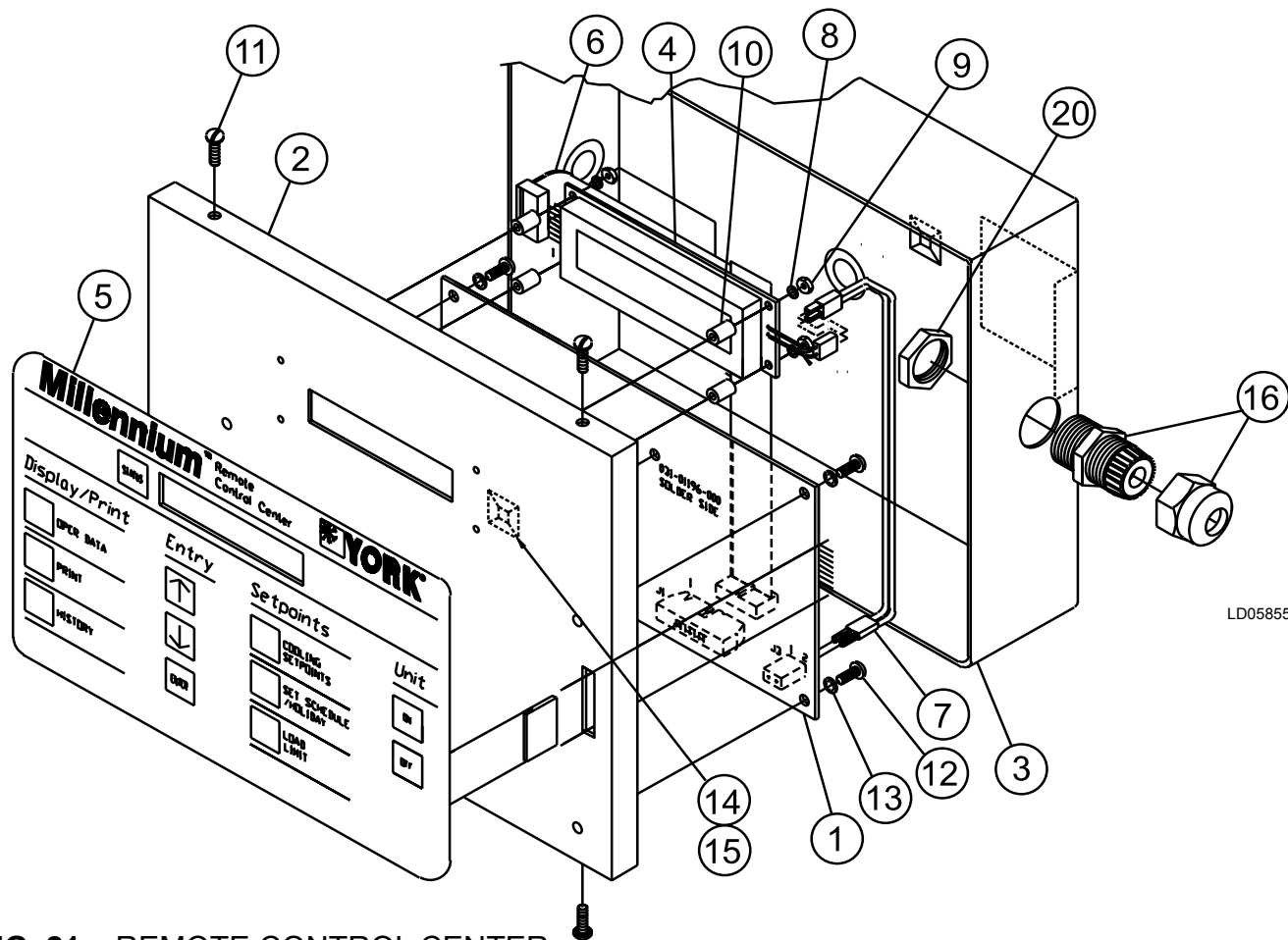
FIG. 20 – LOUVERED ENCLOSURE (BOTTOM SECTIONS) - YCUL0081, YCUL0095 AND YCUL0121 SHOWN

TABLE 17 – LOUVERED ENCLOSURE (Bottom Sections)

LOUVERED ENCLOSURE (BOTTOM SECTIONS)		YCUL0045 & YCUL0061		YCUL0081, 0095 & YCUL0121		YCUL0125, 0145, 0161, 0171 & YCUL0185		YCUL0211, 0235 0255 & YCUL0275	
ITEM #	DESCRIPTION	475-31868-000	QTY	475-31833-000	QTY	475-31299-000	QTY	475-31807-000	QTY
1	Panel, Side	075-31822-000	1	075-31856-000	1	075-31287-000	1	075-31821-000	1
2	Panel, Side	075-31883-000	1	075-31857-000	1	075-31290-000	1	075-31822-000	1
3	Panel, Front	075-31884-000	2	075-31860-000	2	075-31293-000	2	075-31820-000	2
4	Panel, Front	075-31885-000	2	075-31861-000	2	075-31718-000	2	075-31819-000	2
5	Panel, Side	075-31886-000	1	075-31859-000	1	075-31292-000	1	075-31292-000	1
6	Panel, Side	075-31887-000	1	075-31858-000	1	075-31291-000	1	075-31291-000	1
7	Panel	075-31723-000	1	075-31723-000	1	075-31719-000	1	075-31722-000	1
8	Panel	075-31725-000	1	075-31724-000	1	075-31720-000	1	075-31721-000	1
9	Clip	075-31285-000	12	075-31285-000	12	075-31285-000	12	075-31285-000	12
10	Bracket	075-31294-000	8	075-31294-000	8	075-31294-000	10	075-31294-000	10
11	Bracket	075-31711-000	2	075-31711-000	2	075-31711-000	2	075-31711-000	2

Chiller Options

REMOTE CONTROL CENTER



LD05855

FIG. 21 – REMOTE CONTROL CENTER

TABLE 18 – REMOTE CONTROL CENTER PARTS - 371-02485-104 (60HZ)

ITEM NUMBER	QTY	DESCRIPTION	PART NUMBER
1	1	CONTROL, MICROBOARD	031-01196-000
2	1	COVER, REMOTE CONTROL	371-02485-311
3	1	BASE, REMOTE CONTROL	071-02485-320
4	1	DISPLAY, LCD	031-01110-000
5	1	SWITCH, KEYPAD	024-30930-000
6	1	RIBBON CABLE	071-01289-211
7	1	WIRE CABLE	071-01289-212
10	4	SPACER, NYLON 1/4 OD X 7/16 LONG	021-17575-000
11	1	TRANSFORMER	025-29917-002
14	3	CABLE TIE	025-25155-000
15	1	EPROM	031-02016-003
16	1	CABLE FITTING	025-05701-000
17	2	INSULATOR, RECIPAK ROOFTOP	071-01730-000
18	2	MODULE, LAN TRANSIENT PROTECTION (LTP)	031-01586-000
19	1	INSTALLATION INSTRUCTIONS	071-01289-002
20	1	NUT, LOCKING, HEYCO - 3232	025-31732-000
21	1	OPERATOR'S MANUAL	150.62-NM1

REMOTE CURRENT/TEMPERATURE RESET PARTS BREAKDOWN

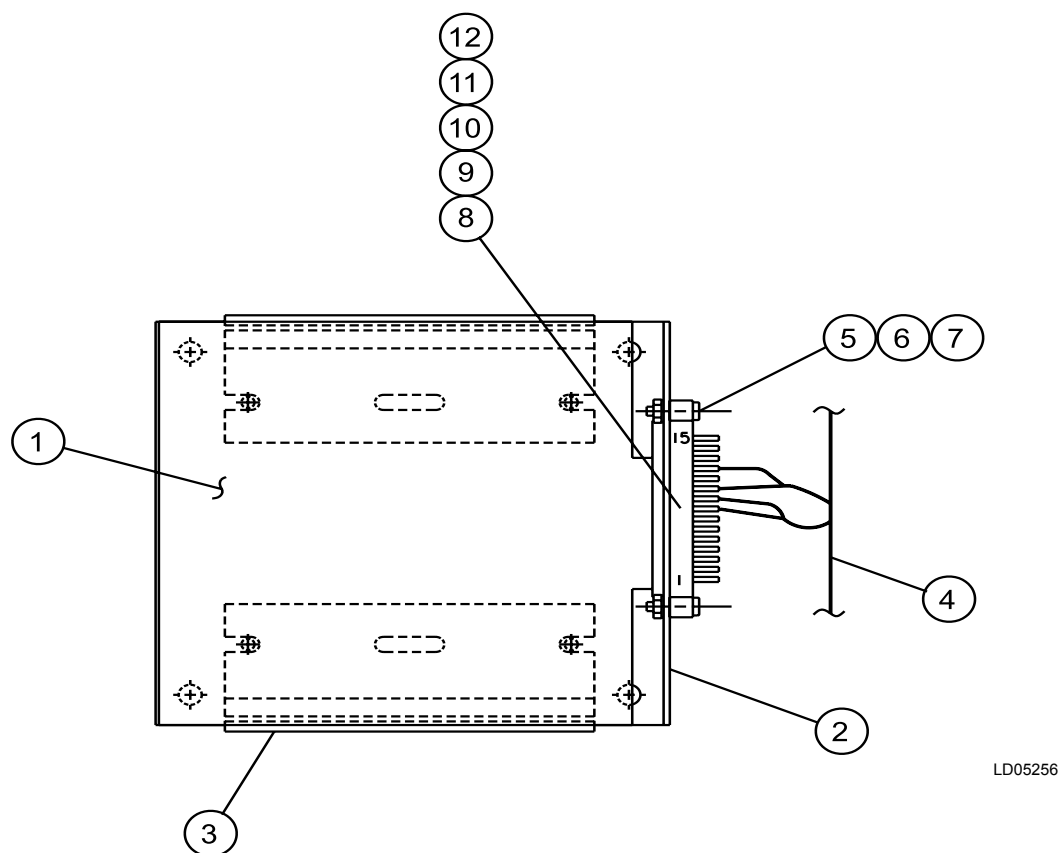


FIG. 22 – REMOTE CURRENT/TEMPERATURE RESET COMPONENTS

TABLE 19 – REMOTE CURRENT OR TEMPERATURE RESET KIT NUMBER 375-90914-000

ITEM NUMBER	QTY	DESCRIPTION	PART NUMBER
1	1	CONTROL, REMOTE CURRENT/TEMPERATURE	031-00814-000
2	1	BRACKET, REMOTE CURRENT/TEMPERATURE RESET	371-01232-361
3	1	TRACK, SNAP	071-01232-363
4	1	WIRING, REMOTE CURRENT/ TEMPERATURE RESET	571-02492-231*
5	2	SCREW, MACHINE PAN HEAD #4	021-17594-000
6	2	NUT, HEX #4-40UNC-2B	021-10056-000
7	2	LOCKWASHER, HELICAL SPRING #4 REG.	021-17576-000

* Refer to **Table 19a**

TABLE 19a – REMOTE RESET WIRING

ITEM NUMBER	QTY	DESCRIPTION	PART NUMBER
8	2	CONTROL, SOC AWG WIRE SIZE 20	025-19674-000
9	2	TERMINAL PUSH ON STRAIGHT	025-06642-000
10	4	TUBING HEAT SHRINKABLE 1/8 ID	025-29632-000
11	1	HGS CONNECTOR ELECTRICAL PLUG	025-32564-000*
12	1	CONNECTOR EDGE, 15 POSITION, 0.125	025-29631-000

RECOMMENDED SPARE PARTS

York Model YCUL Style B Air Cooled Liquid Chillers
Suggested Spare Parts List for Critical Duty Applications

TABLE 20 – RECOMMENDED SPARE PARTS - YCUL0045-YCUL0275 CHILLERS

PAGE REF. & ITEM NUMBER	DESCRIPTION	MODEL NUMBER YCUL	PART NUMBER
Page 6, Item 1	Fan Motor (Standard)	-50	024-30900-001
Page 6, Item 1	Fan Motor (Low Noise)	-50	024-30933-001
Page 6, Item 2	Fan Blade (Standard)	All	026-37577-000
	Fan Blade (Low Noise)	All	026-37579-000
Page 8 and 9, Item 10	Core, Dehydrator	All	026-18328-000
Page 13, Item OIL	Oil, Compressor (Type 'F')	R-22	011-00434-000
	Oil, Compressor (Type 'T')	407-C	011-00937-000
Page 18, Item 5A	Microboard	All	031-02050-001
Page 18, Item 5B	EPROM	All	031-02049-001
Page 18, Item 10B	Fuse	All	025-38360-000
Page 24-31, Item 5B	Fan Contactor	See Table 6	024-34300-000
			024-34302-000
Page 24-31, Item 5F	Fan Overload	See Table 6	024-33170-000
			024-33169-000
			024-33168-000
Page 35, Item 1	Sensor, Outside Air Temperature	All	025-28663-001
Page 35, Items 3 & 4	Switch, High Pressure Cutout	All	375-00453-057
			375-00453-058
			375-00453-059
Page 35, Item 6	Transducer, Suction Pressure (0-200psi)	All	025-29583-000
Page 35, Item 7	Transducer, Discharge Pressure (0-400psi)	All	025-29139-001
Page 35, Item 8	Sensor, Discharge Air Temperature	All	025-28935-000

All parts should be purchased from your local YORK
Sales and Service Center.

NOTES



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