



**MODEL YD
CENTRIFUGAL LIQUID CHILLERS**

RENEWAL PARTS

Supersedes: 160.69-RP1 (105)

Form 160.69-RP1 (1207)

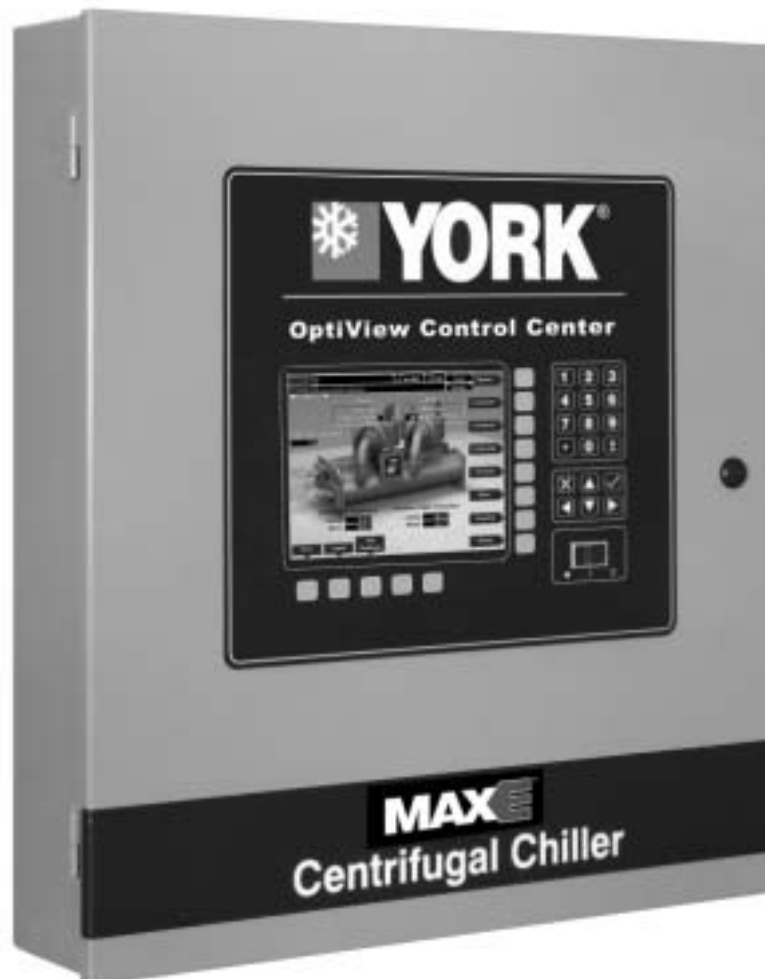
OPTIVIEW™ CONTROL CENTER

371-03774-101

371-04102-101

371-04158-101

MODEL YD



UNIT COMPONENTS

ITEM	DESCRIPTION	FIG. NO.	QTY.	PART NO.
1	Kit, Analog Input/Output Board	1	1	371-03780-000
2	Kit, Digital Input/Output Board	1	1	371-03781-000
2A	AC Output Module	1	8	025-37818-000
2B	AC Input Module	1	4	025-37817-000
2C	DC Output Module	1	2	025-37818-001
2D	Fuses F1-F24	1	24	025-34592-000
3	Terminal Block	1	1	025-38125-000
4	Input/Output Board	1	1	031-01743-002
5	Microboard The Control Center could be equipped with one of the following microboards, depending upon the vintage of the Control Center. Regardless of which board is present, order part number 331-02430-606 (replacement microboards can not be ordered by the basic board part number of 031-02430-001). 031-01730-000 – supplied in new production chillers until July 2004. Uses BIOS Eeprom (item 38), BRAM (item 37) and Flash Memory Card (item 29). Replacement kit 331-02430-606 is supplied as service replacement for this board. 031-02430-000 – supplied in new production chillers from July 2004 until December 2007. Uses BIOS Eeprom (item 48) and BRAM (item 49) and Program Card (item 50). Replacement kit 331-02430-606 is supplied as service replacement for this board. 031-02430-001 – supplied in new production chillers and as replacement part 331-02430-606 after December 2007. The board is supplied pre-programmed with the latest version of the YD chiller “Controls” Software and it comes equipped with a BRAM (U38) (item 49A) and BIOS Eeprom (U37) (item 48). It is shipped with a label on the outside of the shipping box that lists the part number of the pre-programmed Microboard (331-02430-606), the basic Microboard part number (031-02430-001) and the version of the “Controls” software (for example, C.OPT.11.03.01.004) that the board has been programmed with. This board is provided as service replacement for microboards 031-01730-000, 031-02430-000 and 031-02430-001.	2	1	331-02430-606
6	Power Supply	1	1	025-34111-000
7	Transformer	1	1	025-30889-000
8	Switch, Keypad OptiView™ Panel, NEMA 1	2	1	024-30993-000
8	Switch, Keypad OptiView™ Panel, NEMA 4/12 and CE	2	1	024-30994-000
9	Fuse, 7A (See Note 3) 1FU, 2FU and 3FU	1	4	025-29905-000
10	Fuse Holder 1FU, 2FU and 3FU	1	2	025-13991-000
11	Fastener, Pawl Adjustable (NEMA 1)	4	1	021-17252-000
12	Switch, Rocker (NEMA 1)	4	1	024-23143-000
12A	Switch, Knob Operated (NEMA 4/12)	3	1	024-30931-000
12B	Contact, Block (NEMA 4/12)	3	2	024-30932-000
12C	Buss Bar (Gnd) (NEMA 4/12)	1	1	025-34122-000
13	Strip Neoprene	4	2.8 ft.	028-07533-000

UNIT COMPONENTS (CONT'D)

ITEM	DESCRIPTION	FIG. NO.	QTY.	PART NO.
14	Kit, Display (See Note 1) Contains items, 30,31,32,33,34,35, and 36	4	1	331-01771-000
15	Cover, Display	4	1	071-02264-346
16	Harness, Door Wiring	4	1	571-03774-281
17	Cable, Ribbon (NEMA 1)	1,4	1	031-01772-000
17	Cable, Ribbon (NEMA 4/12)	1,4	1	031-02015-000
18	Cable, Ribbon	1	1	031-01779-000
19	Relay, Control	1	1	024-23962-000
20	Fuse, Microfuse 5 amp (See Note 3)	7	1	025-34592-000
21	Mount, Anti-Vibration	1	4	021-19191-000
22	Suppressor (See Note 3)	-	6	031-00808-000
23	Fuse Holder 4FU, 5FU, 6FU	1	1	025-34565-000
24	Fuse, 5A (See Note 3) 4FU, 6FU	1	3	025-15759-000
25	Fuse, 4A (See Note 3) 5FU	1	2	025-34566-000
26	Diode Bridge	1	2	031-00210-000
27	Resistor	1,6	2	025-20789-000
27A	Resistor Assembly	1,6	1	575-00364-001
28	Control Current Mod CM-2	1	2	031-00947-000
29	Flash Minicard (Used on Microboard 031-01730-000 only. Not compatible with Microboard 031-02430-000 or 031-02430-001) (See Note 5 for version analysis)			
29A	Version C.MLM.nn.nn.nnn Allows Display Screens to be displayed in English, Chinese Traditional, Chinese Simplified, French, Portuguese or Spanish language.	1	1	031-02426-001
29B	Version C.MLM.nn.nn.nnn Allows Display Screens to be displayed in English, French, Italian, German or Hungarian language.	1	1	031-02426-002
30	Display, Color	4	1	(See Note 4)
31	Control, Display Interface Board	4	1	(See Note 4)
32	Inverter Circuit Board	4	1	(See Note 4)
33	Cable, Assembly Inverter	1,4	1	(See Note 4)
34	Adapter Plate	4	1	(See Note 4)
35	Plate, Mounting	4	1	(See Note 4)
36	Ribbon Cable, Display	1,4	1	(See Note 4)
37	IC, BRAM-U52 (Used on Microboard 031-01730-000 only. Not compatible with Microboard 031-02430-000 or 031-02430-001)	1	1	031-02028-000
38	EPROM, BIOS (U45) (Used on Microboard 031-01730-000 only. Not compatible with Microboard 031-02430-000 or 031-02430-001)	1	1	031-01796-002
39	Cable Assembly	1	1	031-02442-000
40	Transducers Condenser, High & Low Oil (Water & Brine App.) -			025-28678-006
40A	Evaporator (Water & Brine App.) -			025-28678-112
40B	Stall Detection - Straight threads with O-ring (chillers equipped with Variable Geometry Diffuser) (see Note 8)			025-40088-000
40C	Seal, O-ring for items 40 and 40A, and 40B			028-12961-002

UNIT COMPONENTS (CONT'D)

FORM 160.69-RP1 (1207)

ITEM	DESCRIPTION	FIG. NO.	QTY.	PART NO.
41	Thermistors Entering Chilled Water Temperature			025-29964-000
41A	Leaving Chilled Water Temperature			025-29964-000
41B	Sensor Well With Threaded Top			026-32328-000
41C	Entering Condenser Water Temperature			025-28935-000
41D	Leaving Condenser Water Temperature			025-28935-000
41E	Oil Temperature - 1/2 - 14 NPT			025-28936-000
41F	Oil Temperature - 3/4 - 16 UNF-2A			025-31301-000
	Seal, O-ring			028-12961-004
41G	Discharge Temperature - 1/2 - 14 NPT			025-28936-000
41H	Discharge Temperature - 3/4 - 16 UNF-2A			025-31301-000
	Seal, O-ring			028-12961-004
42	Not assigned		-	-
43	Not assigned		-	-
44	RS-485 Driver IC. U53, U54, U91 On 031-01730-000 Microboard. U45, U46, U47 on Microboard 031-02430-000 and 031-02430-001 (supplied in packages of 4 each)	1	3	031-02074-000
45	Housing, connector P8, 22 position	1	1	025-34117-000
46	Housing, connector P9, 20 position	1	1	025-34116-000
47	Contacts, sockets for P8, P9	1	42	025-28386-000
48	EPROM, BIOS (U37) Used on Microboard 031-02430-000 or 031-02430-001 only. Not compatible with Microboard 031-01730-000. (Refer to note 6 for version analysis)	1	1	031-02429-001
49	BRAM (U38) Used on Microboard 031-02430-000 only. Not compatible with Microboard 031-01730-000 or 031-02430-001.	1	1	031-02431-000
49A	BRAM (U38) Used on Microboard 031-02430-001 only. Not compatible with microboard 031-01730-000 or 031-02430-000.			031-02565-000
50	Program Card Used to download YD chiller operating program into 031-02430-000 or 031-02430-001 Microboards. Contains the YD chiller operating program. (Refer to note 7 for version analysis.)	1,5	1	031-02475-001
51	Stall Detector Board (chillers equipped with Variable geometry Diffuser)	1	2	031-02418-001 (Note 2)
52	Wiring harness, Power Supply to Microboard J1			571-03774-272
53	Variable Geometry Diffuser Actuator Board	1	2	031-01655-000
54	Disconnect Switch	8	1	025-34171-000
55	Circuit Breaker	8	3	024-30935-000

NOTES:

- The replacement Liquid Crystal Display supplied by YORK might not be by the same manufacturer as the original Display. Each Display requires a specific Display Interface Board (Item 31), Inverter Circuit Board (Item 32), and Display Ribbon Cable (Item 36). Therefore, the Color Display is not available separately. **Service replacement Displays or supporting components must not be arbitrarily selected! Non-compatibility of components will result in incorrect operation!** To assure compatible supporting components, the Display is supplied as a kit (331-01771-000), which contains a replacement Display and all compatible supporting components on a mounting plate. For future reference, a label attached to the side of the mounting plate (Fig. 4) lists the YORK part numbers of these compatible components and the required configuration of the Microboard Program Jumpers. These Program Jumpers must be configured for this Display by a qualified Service Technician following instructions in YORK Service manual 160.69-M1. The contents of the kit are as follows:

- | | |
|--|-------------------------------------|
| a. Color Display | f. Mounting Plate |
| b. Appropriate Display Interface Board (Item 48) | g. Appropriate Display Cable Ribbon |
| c. Inverter Circuit Board | h. All mounting hardware |
| d. Inverter Cable Assembly | j. Installation instructions |
| e. Adapter Plate | |

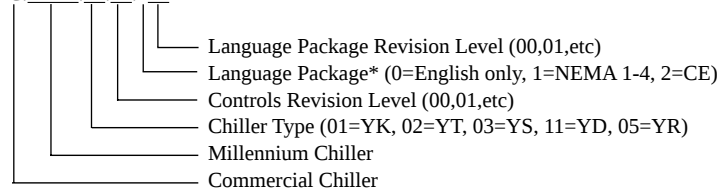
- Supersedes 031-02418-000.

- Spare Suppressors and Fuses are shipped in cloth bag. They are applied at solenoids and relays located on chiller.

- Refer to label (FIG. 4) on Display mounting plate for YORK part number of applicable replacement part. Service replacement Display supporting components must not be arbitrarily selected! Non-compatibility of components will result in incorrect operation!

- Flash Memory Card (item 29) version analysis:

C.MLM.nn.nn.nnn

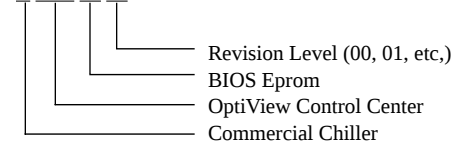


*1 = Supplied in new NEMA 1-4 OptiView Control Centers.

2 = Supplied in new CE (European Community) OptiView Control Centers.

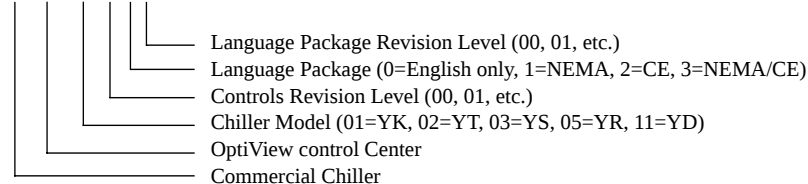
- BIOS Eprom (item 48) version analysis:

C.OPT.00.nn



- Program Card (item 50) version analysis:

C.OPT.nn.nn.nnn



- Early vintage chillers were shipped with Stall Transducer 025-39464-000. Later chillers are shipped with Stall Transducer 025-40088-000. These transducers require different wiring connections. Check the part number of the replacement transducer and make connections at the transducer as follows:

Transducer 025-39464-000

- pin 1 - signal out- WHT
- pin 2 - ground-BLK
- pin 3 - +5vdc supply voltage - RED

Transducer 025-40088-000

- pin 1 - +5vdc supply voltage - RED
- pin 2 - ground - BLK
- pin 3 - signal out - WHT

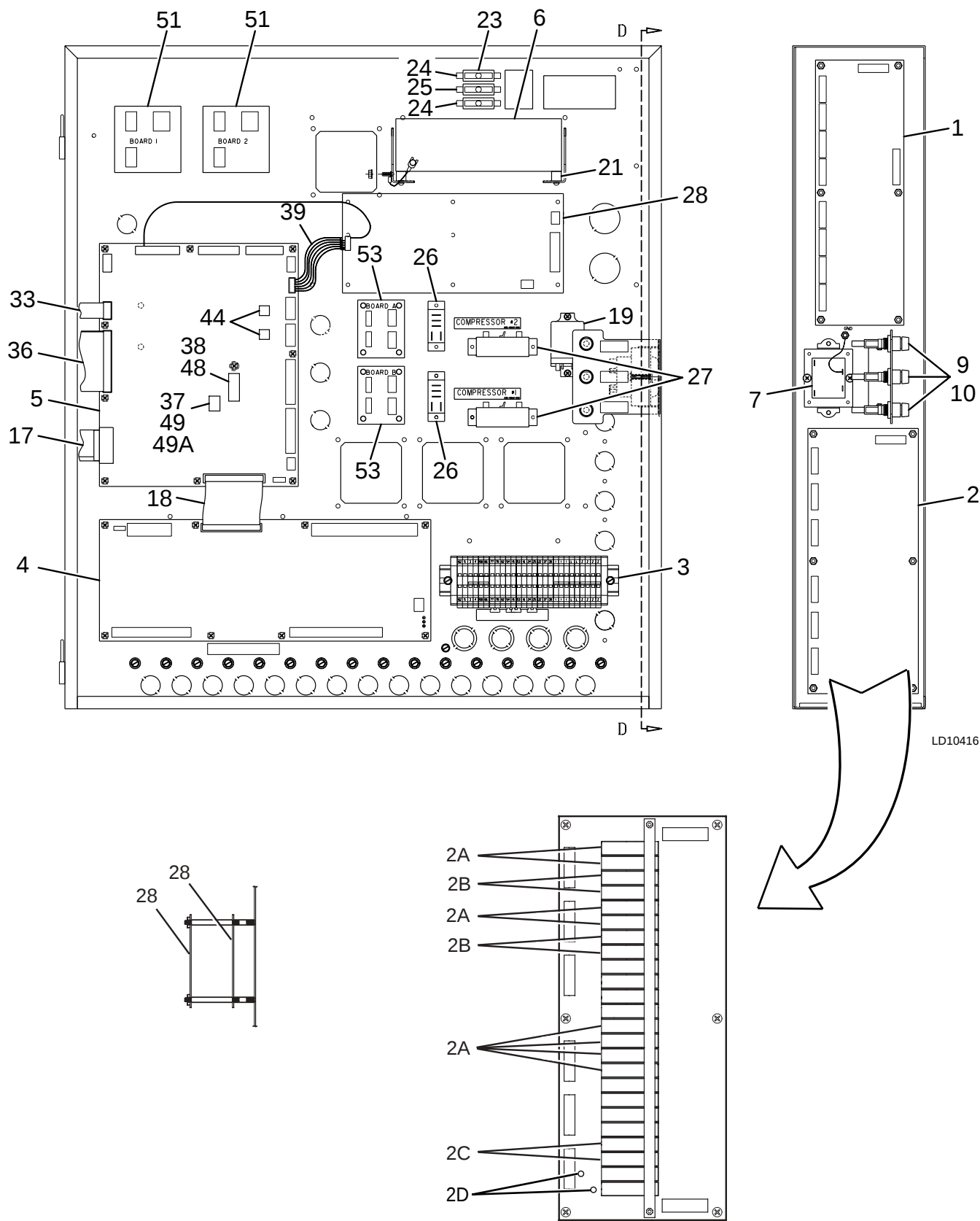


FIG. 1 – INSIDE OF OPTIVIEW™ CONTROL PANEL

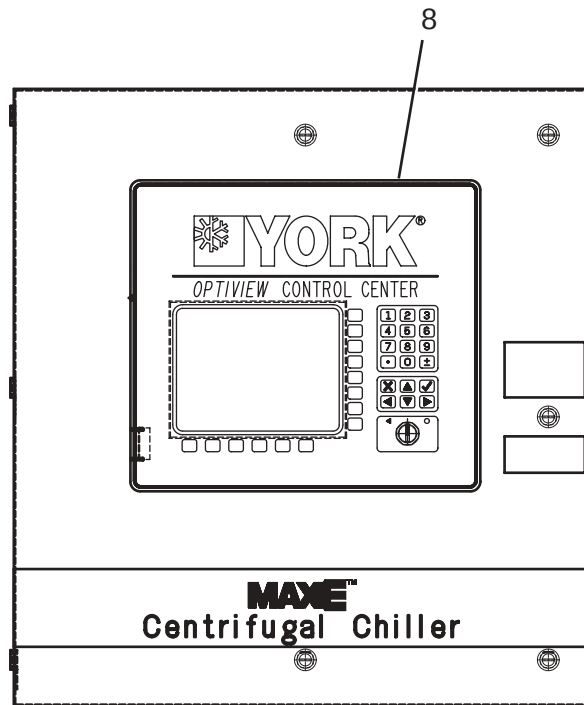


FIG. 2 – FRONT VIEW OF DOOR

LD08598

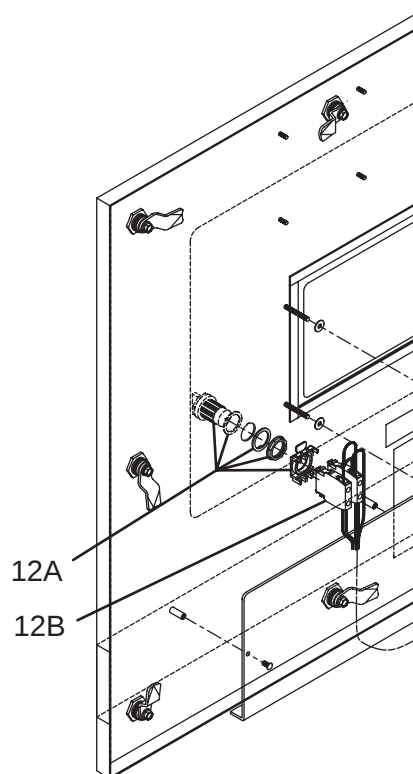
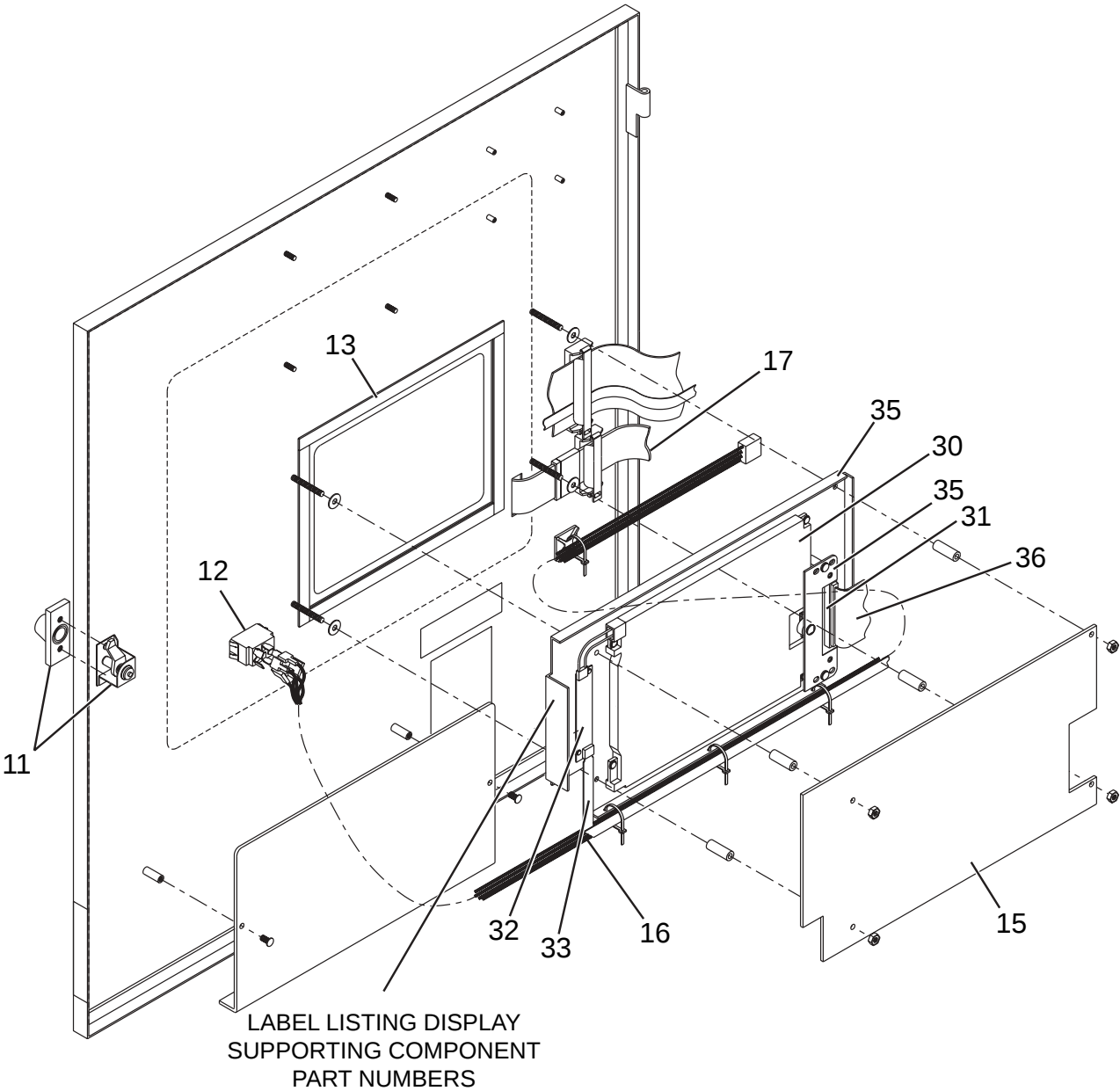


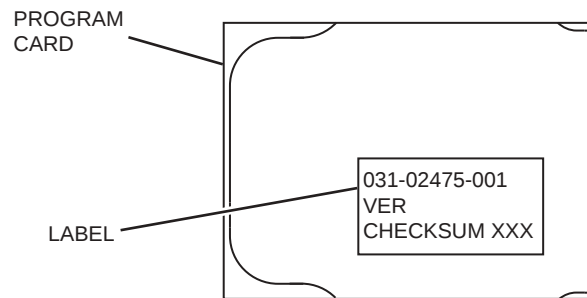
FIG. 3 – INSIDE OF DOOR - NEMA 4/12

LD08600

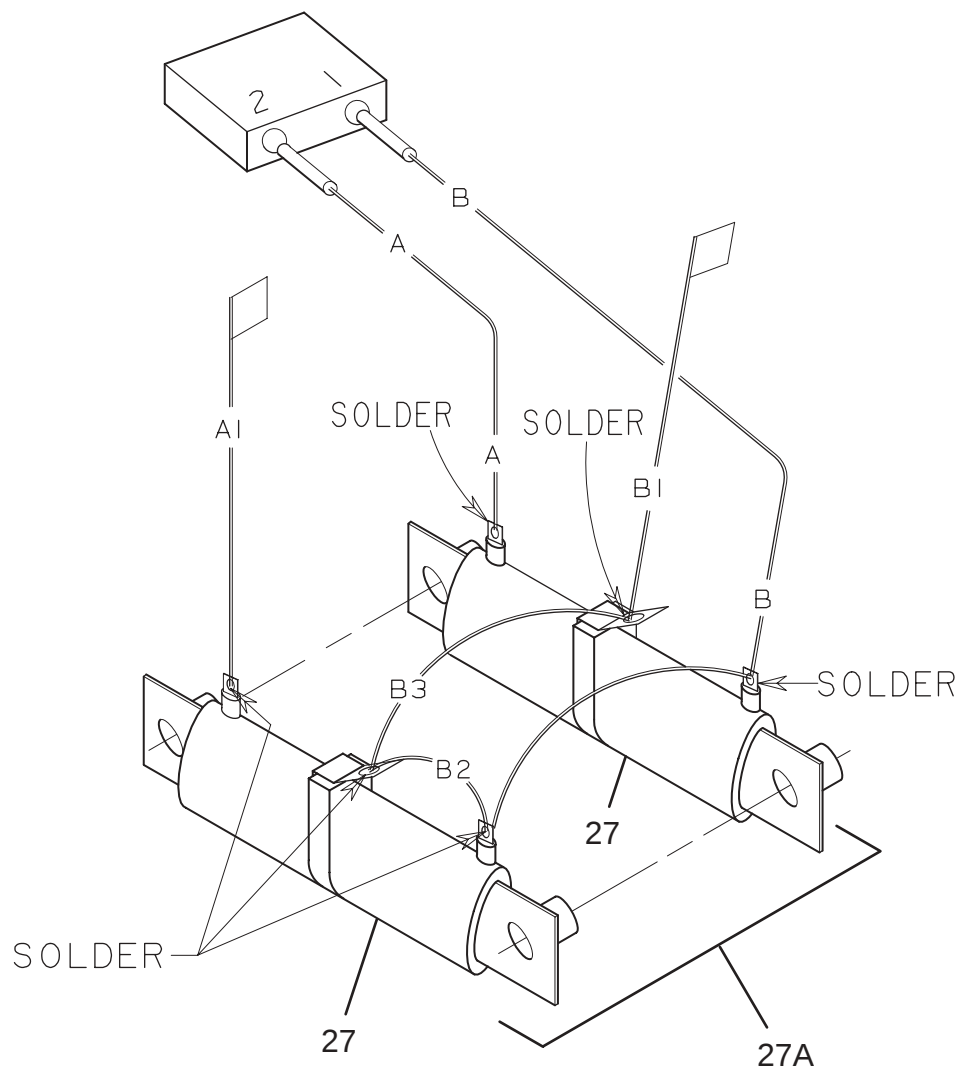


LD10417

FIG. 4 – DISPLAY



LD10418

FIG. 5 – PROGRAM CARD (ITEM 50)

LD10329

FIG. 6 – RESISTOR ASSEMBLY (ITEM 27A)

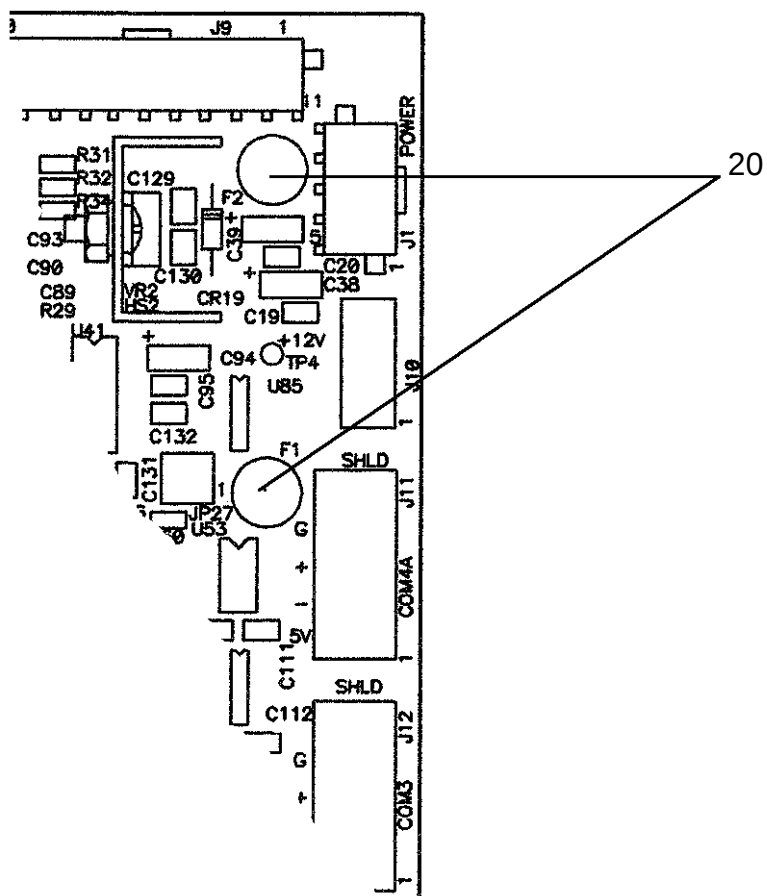


FIG. 7 – MICROBOARD FUSES (ITEM 20)

LD10329

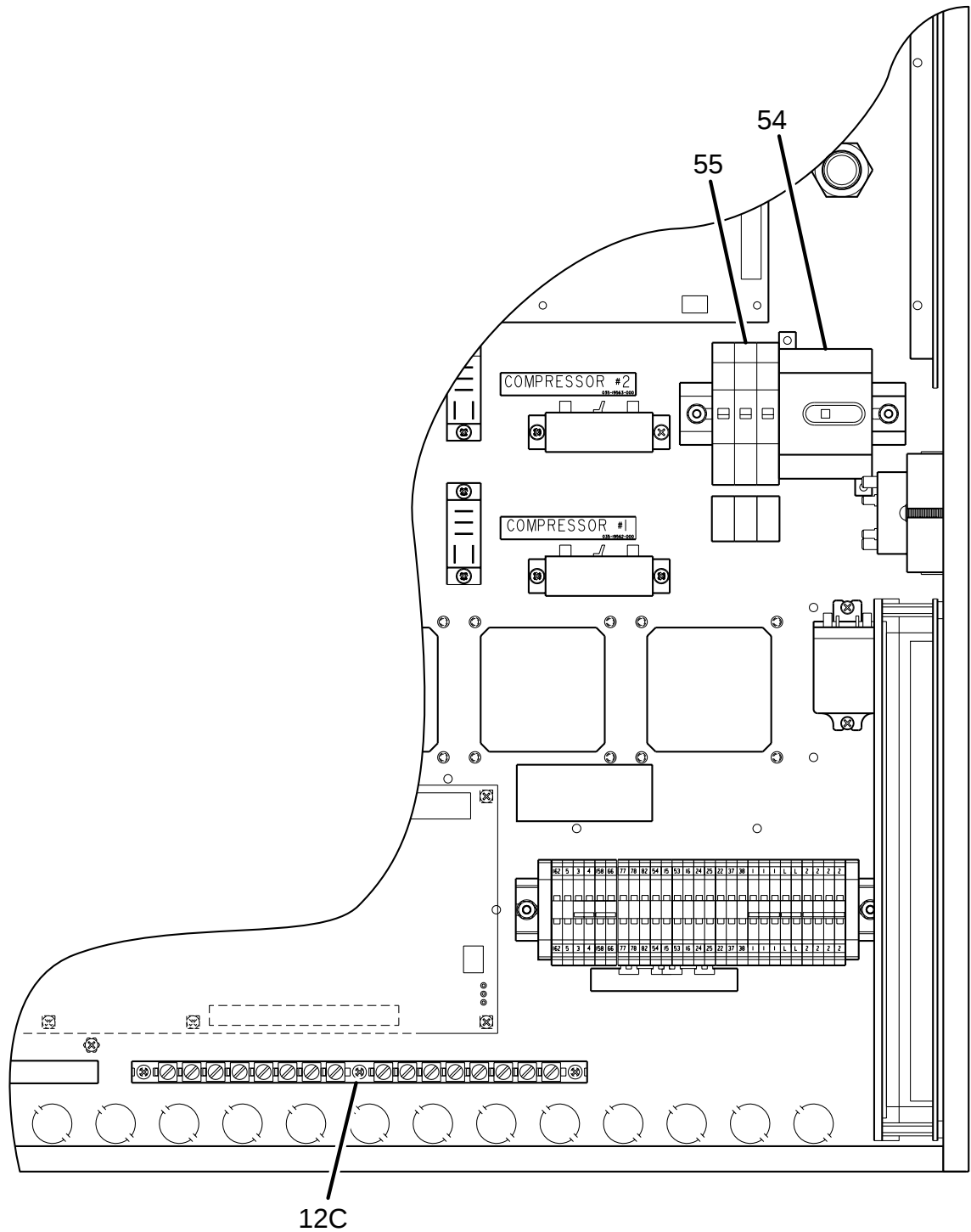


FIG. 8 – INSIDE OF OPTIVIEW CONTROL PANEL - CE

LD10419

