DRESSER Wayne

iX™ Pay Secure Payment

INSTALLATION

iX Pay (U.S.) Retrofit Kit for Ovation Dispensers

ONLY SPM CERTIFIED TECHNICIANS SHOULD INSTALL THIS KIT

JUNE 2010

DANGER

READ THIS MANUAL BEFORE YOU BEGIN

Dispensers have both electricity and a hazardous, flammable and potentially explosive liquid. Failure to follow the below precautions and the Warning and Caution instructions in this manual may result in serious injury. Follow all rules, codes and laws that apply to your area and installation.

SAFETY PRECAUTIONS - INSTALLATION AND MAINTENANCE

Always make sure ALL power to the dispenser is turned OFF before you open the dispenser cabinet for maintenance. Physically lock, restrict access to, or tag the circuit breakers you turn off when servicing the dispenser. Be sure to trip (close) the emergency valve(s) under the dispenser BEFORE beginning maintenance.

Make sure that you know how to turn OFF power to the dispenser and submersible pumps in an emergency. Have all leaks or defects repaired immediately.

EQUIPMENT PRECAUTIONS

Be sure to bleed all air from product lines of remote dispensers and prime suction pumps before dispensing product, otherwise, damage to the equipment may occur. Always use the approved method for lifting the dispenser. Never lift by the nozzle boot, sheet metal, valance, etc., otherwise equipment damage or personal injury may occur.

HOW TO CONTACT WAYNE

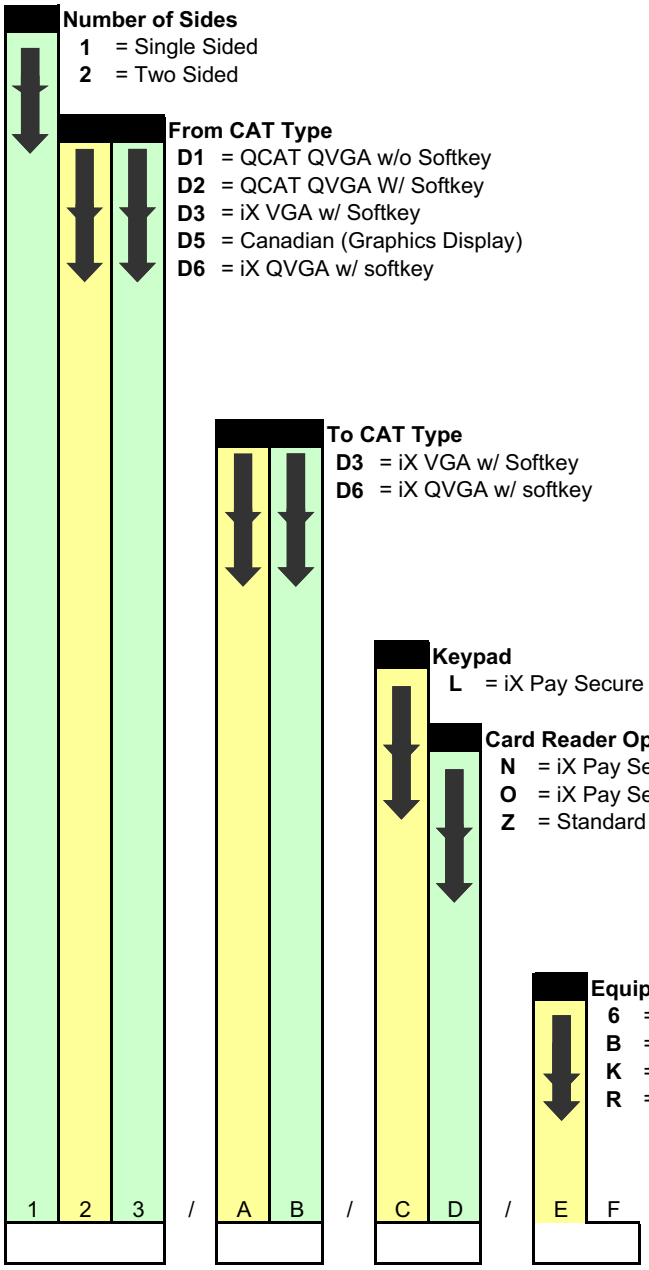
Technical questions related to the installation of this product should be referred to Wayne Technical Support (1-800-926-3737).

INDICATORS AND NOTATIONS

DANGER	Danger indicates a hazard or unsafe practice which, if not avoided, will result in severe injury or possibly death.
WARNING	Warning indicates a hazard or unsafe practice which, if not avoided, may result in severe injury or possibly death.
CAUTION	Caution indicates a hazard or unsafe practice which, if not avoided, may result in minor injury.
NOTE:	Important information to consider, otherwise, improper installation and/or damage to components may occur.

OVATION iX PAY RETROFIT KIT

MODEL DESIGNATOR CHART



Number of Sides
1 = Single Sided
2 = Two Sided

From CAT Type
D1 = QCAT QVGA w/o Softkey
D2 = QCAT QVGA W/ Softkey
D3 = iX VGA w/ Softkey
D5 = Canadian (Graphics Display)
D6 = iX QVGA w/ softkey

To CAT Type
D3 = iX VGA w/ Softkey
D6 = iX QVGA w/ softkey

Keypad
L = iX Pay Secure Keypad

Card Reader Option
N = iX Pay Secure Hybrid Card Reader
O = iX Pay Secure Mag Card Reader
Z = Standard Mag Card Reader

Equipment Options
6 = Replacement Monochrome LED QVGA Display
B = Color Display
K = Canadian
R = R2 IX Board

NOTE:
REFER TO 889139-001 FOR
CUSTOMER DESIGNATION CODE.

1 INTRODUCTION

This manual provides instructions for installing the iX™ Pay Secure Payment retrofit kits on Ovation dispensers. These instructions apply to standard Ovations (QCAT without softkeys), QCAT with softkeys, and Ovation iX™. The parts in each kit will be configured electronically at the time of order, based on the type of dispenser.

Retrofit kits will contain either 2 iX (blue) boards or 1 iX (red) board.

The kits are identified by model number. As shown in the Model Designation Chart on the previous page, model numbers take the format 123 / AB / CD / EF. The first three positions in the model number correspond to the dispenser to be retrofitted and define the major components in the kit as shown in Fig A.

Position 1 - number of sides of dispenser to be retrofitted:
1 = Single sided 2 = Dual sided

Position 2 and 3 - Type of dispenser to be retrofitted:
D1 = QCAT QVGA without softkeys
D2 = QCAT QVGA with softkeys
D3 = iX VGA with softkey
D6 = iX QVGA with softkey

1.1 Safety Precautions

Block off the work area with safety cones prior to the installation of this kit.

NOTE: These retrofit kits may require installation of several wiring and hardware assemblies. Any installation or modification must comply with the requirements of the National Electrical Code (NFPA 70), and NFPA 30 and any other applicable codes.

NFPA 30A states that:
“When maintenance to Class 1 dispensing devices becomes necessary and such maintenance may allow the accidental release or ignition of liquid, the following precautions shall be taken before such maintenance is begun:

- Only persons knowledgeable in performing the required maintenance shall perform the work.
- All electrical power to the dispensing device and pump serving the dispenser shall be shut off at the main electrical disconnect panel.
- The emergency shut-off valve at the dispenser, if installed, shall be closed.
- All vehicle traffic and unauthorized persons shall be prevented from coming within 20 ft.(6 m) of the dispensing device.[1] ”

⚠ **WARNING**

Electric shock hazard! More than one disconnect switch may be required to de-energize the dispenser for maintenance and servicing. Use a voltmeter to make sure ALL circuits in the dispenser are de-energized. Failure to do so may result in serious injury.Lockout/ Tagout requirements of the U. S. Dept. of Labor, Occupational Safety and Health Administration (OSHA) may also apply. Refer to Title 29, Part 1910 of the Code of Federal Regulations (29CFR1910), *Control of Hazardous Energy Source (Lockout/Tagout)*.

1. Reprinted with permission from NFPA 30A-90, *Automotive and Marine Service Station Codes*, Copyright ©1990, National Fire Protection Association, Quincy MA 02269. This reprinted material is not the complete and official position of the National Fire Protection Association on the referenced subject, which is represented only by the standard in its entirety.

1.2 Parts Required for QVGA Dispensers

The parts and quantities that will be included in each kit are listed in Table 1. Item numbers in the table are referenced to Figure A which shows the parts required for each type of dispenser to be retrofitted. These dispensers are: Standard Ovation (QCAT without softkeys) using kit model xD1. (QCAT with softkeys) using kit model xD2, and (Ovation iX™) using kit model xD6.

Table 1 Parts in the Kits

Part Number	Description	Item No.	Qty for Dual Sided	Qty for Single Sided	Included in Kit Models
WU001811-0001 *	PANEL ASSY, SPM KYPD	1	2	1	**xD1 xD2 xD6**
888341-005	GASKET, PAYMENT OPTION PAN	2	2	1	
6005901	SCREW 6-32X3/8	3	24	12	
887435-001	GASKET, CARD READER	4	2	1	
6001105	SCREW, #10	5	2	1	
6019401	NUT, #10	6	2	1	
892120-001	CABLE ASSY, POWER, SPM-CAT-SALES	7	2	1	
850350-002	CABLE, CARD READER	8	2	1	
892139-001/-005	CABLE, USB, A MALE TO B MALE (SHORT)/(LONG)	9	2	1	
892141-001	CABLE, SPM-SOFTKEYS	10	2	1	
890593-001	CABLE, POWER JUMPER QCAT-IX	11	2	1	
892115-001	BRACKET, DISPLAY PANEL	13	2	1	**xD1 xD2**
888635-001	SAFETY SHIELD	14	2	1	
882623-001	PLASTIC STANDOFF, SAFETY SHIELD	15	6	3	
6005907	SCREW 4-40X3/8	16	8	4	
891564-001	LABEL, LICENSE, WINDOWS CE 5.0	17	2	1	
882505-002	PLASTIC STANDOFF,	18	4	2	
918173	METAL STANDOFF, QCAT BD	19	8	4	
890766-001	WIRE HARNESS, iX/iGEM CAN/ANNUN	20	1	1	
WU001810-0001 *	PANEL ASSY, iX QVGA W/SOFTKEY	22	2	1	**xD1**
882941-	SOFTKEY COVERS	23	4	2	
888341-001	GASKET, DISPLAY PANEL	24	2	1	
WU001031	IX BOARD (BLUE BOARD)	12	2	1	**All** Blue boards
888798-002	CABLE, DISPLAY-IX (SHORT)	21 not shown	2	1	
WU003096	IX BOARD (RED BOARD, FOR QVGA ONLY)	12	1	1	**All** Red boards
888798-005	CABLE, DISPLAY-IX (LONG)	21 not shown	1	0	
888798-002	CABLE, DISPLAU-IX (SHORT)	21 not shown	1	1	
000-940015-	INSTALLATION MANUAL	21 not shown	1	1	**All**

***Assembly not sold separately**

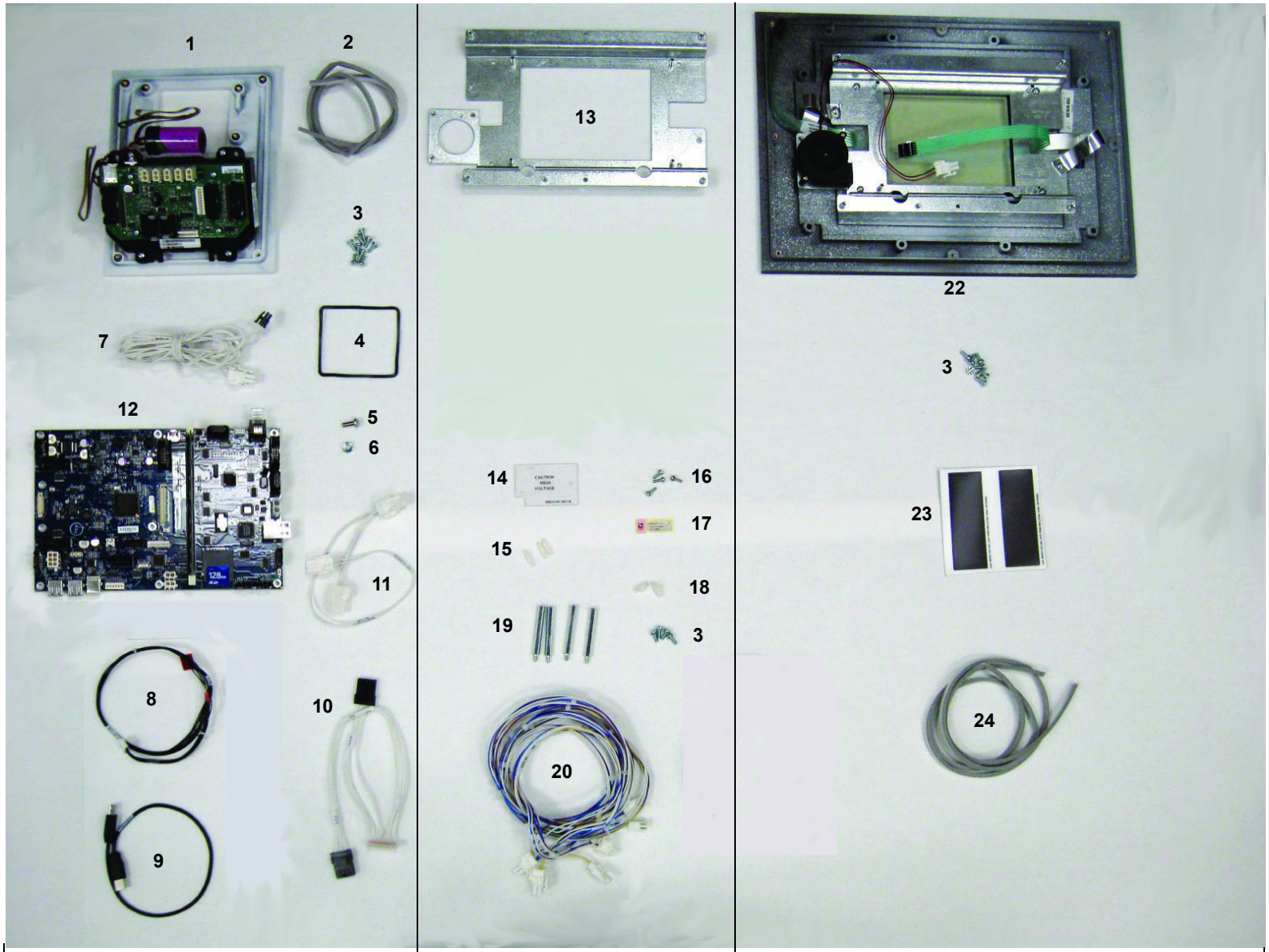


FIGURE A - PARTS

2 INSTALLATION

Before beginning the installation, adhere to the safety precautions listed in Section 1.1.

2.1 Tools Required

- Phillips head screwdriver
- Flathead screwdriver

2.2 Instructions for Model xD6 - to Upgrade iX Dispensers

SEE FIGURES B1 AND B2

1. Power down the dispenser at the circuit breaker.
2. Unlock and open the bezel/door on both sides of dispenser.
3. Starting on side 1, disconnect cable from Card Reader and disconnect and discard cable from keypad to iX.
4. Remove the screws from the Card Read/Keypad Panel and remove the panel. Save panel for reusing the Card Reader.
5. Remove the gasket and any gasket residue around the bezel window.
6. Install new Gasket (888341-005) around the window.
7. Remove Card Reader from old panel. Discard card reader gasket and panel.
8. Install new Gasket (887435-001) and original card reader onto the new SPM Panel using 4 Screws (6005901).
9. Install the new SPM Panel (WU001811-0001) onto the dispenser bezel using 4 Screws (6005901).
10. Discard the following cables, if present:
    A) Card Reader cable if cable does not have a separate ground wire with lug attached.
    B) 24V Power cable between the Sales/Vol Display and 24VDC Distribution Board.
    C) Long gold-colored ground strap from chassis to iX Board or keypad.
11. Disconnect all other cables from the iX board.
12. Remove 4 screws securing the iX board then remove and discard board. Save screws.
13. Install new iX board reusing screws.
14. Connect the following cables (Figures B1 and B2):
    A) Existing Display Cable (888798-002) to iX board bottom display connector.
    B) Existing DL wires (brown and violet twisted pair) to the iX board J19 (Port #3).

C) New USB Cable (892139-001) to the iX Board USB 1 connector and to the SPM USB connector. If iX (red) board, connect the -001 cable to side 1 SPM and connect the -005 cable over to side 2 SPM when installed.

D) Connect the previously-installed Display Cable (888798-002) to iX board bottom display connector and secure ground wire under the corner screw on the board. If iX (red) board, connect display cable (888798-005) to iX board top display connector. Route over to side 2 for connecting to display.

E) New DC Power Cable (892120-001):

P7/P6 (2-pin) to a spare connector on DC Distribution board,
J3 (2-pin) connector to the (2-pin) connector on the Sales/Vol display board,
P19 (6-pin) to the iX board J16 Power connector,
J4 (2-pin) to the SPM board J1 connector.

F) Card Reader Cable (850350-002) (with ground) to the Card Reader and to SPM Board J10.

G) Ground strap (gold-colored) on the SPM over to chassis and secure with #10 Screw (6001105) and # Nut (6019401). Be sure the ground strap does not get pinched in the door when closing.

H) SPM and Card Reader ground wires to the upper left corner scew on the iX Board.

I) Softkey Cable (892141-001) to SPM Board J6 connector and to left and right softkeys.

J) If QVGA Display has LED backlight, connect backlight cable (red & white) to SPM board J2, and, if applicable, connect the QVGA Display fan cable (red & black) to SPM board J3.

If QVGA Display CCFL Backlight, the two white backlight wires remain connected to the QCAT board.

K) Printer cable to SPM board Printer connector J10.

L) If present, scanner cable to SPM board scanner connector J15.

15. Apply the CE Label (891564-001) to the inside center column.

16. Repeat the following steps for side 2: If blue board, 3-13, 14A, 14C-L. (If red board, skip steps 12-13, 14A-B).

17. If iX (red) board (figure 9), connect the USB cable (892139-005) routed over from side 1 iX board, to side 2 SPM.

18. If iX (red) board, connect display cable (888798-005) routed over from side 1 iX board to side 2 display.

19. Repeat the above steps for opposite side of dispenser.

20. Connect the wires that were routed over from side 1 to the side 2 iX board as follows:
    ANNUN P1 to J18 Annunciator,
    CAN P2 to J4 CAN

21. Close and lock service doors.

22. Power up dispenser.

23. Refer to Startup and Service Manual (940014) for upgrading the iX software and starting up the SPM.

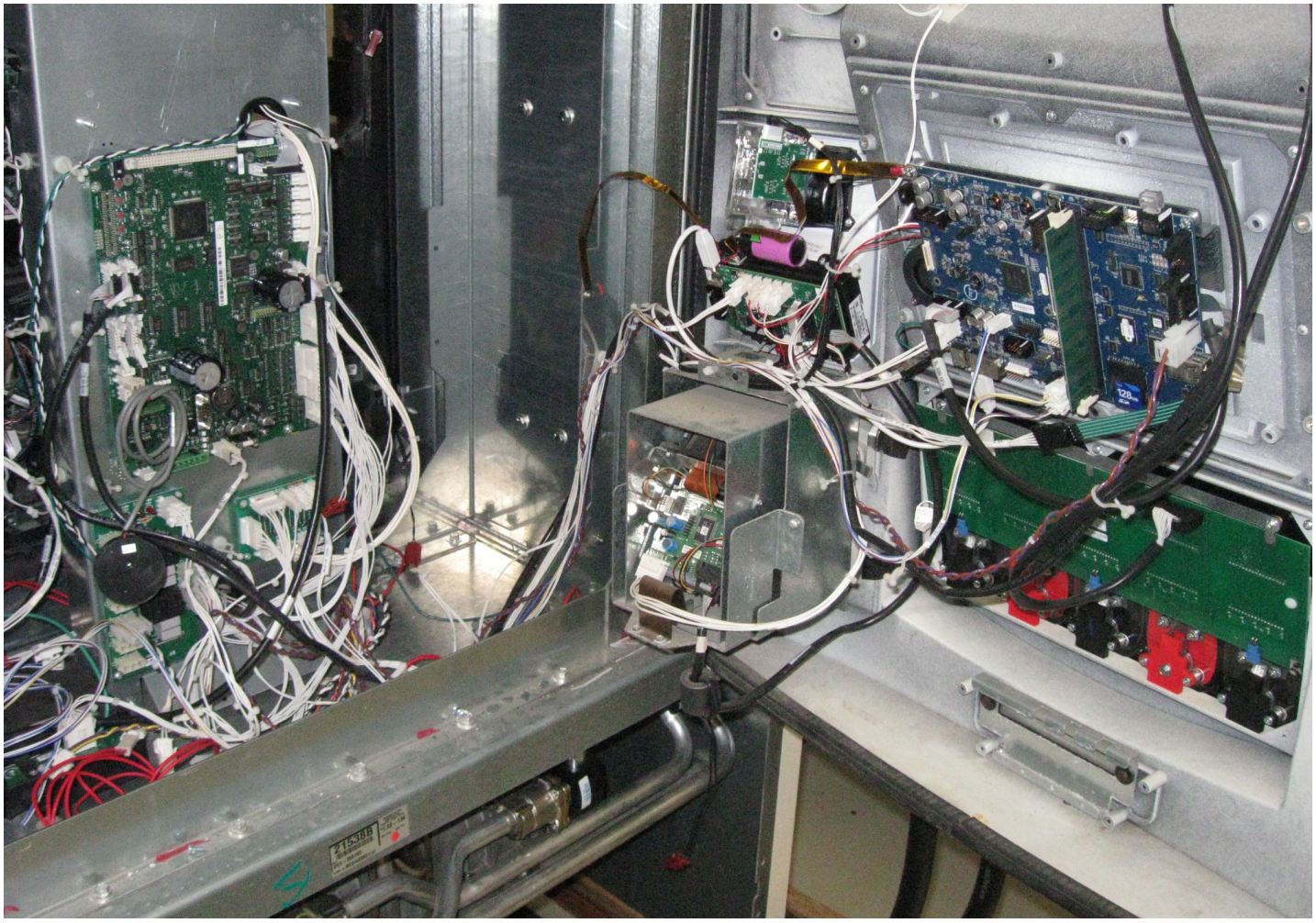


FIGURE B1

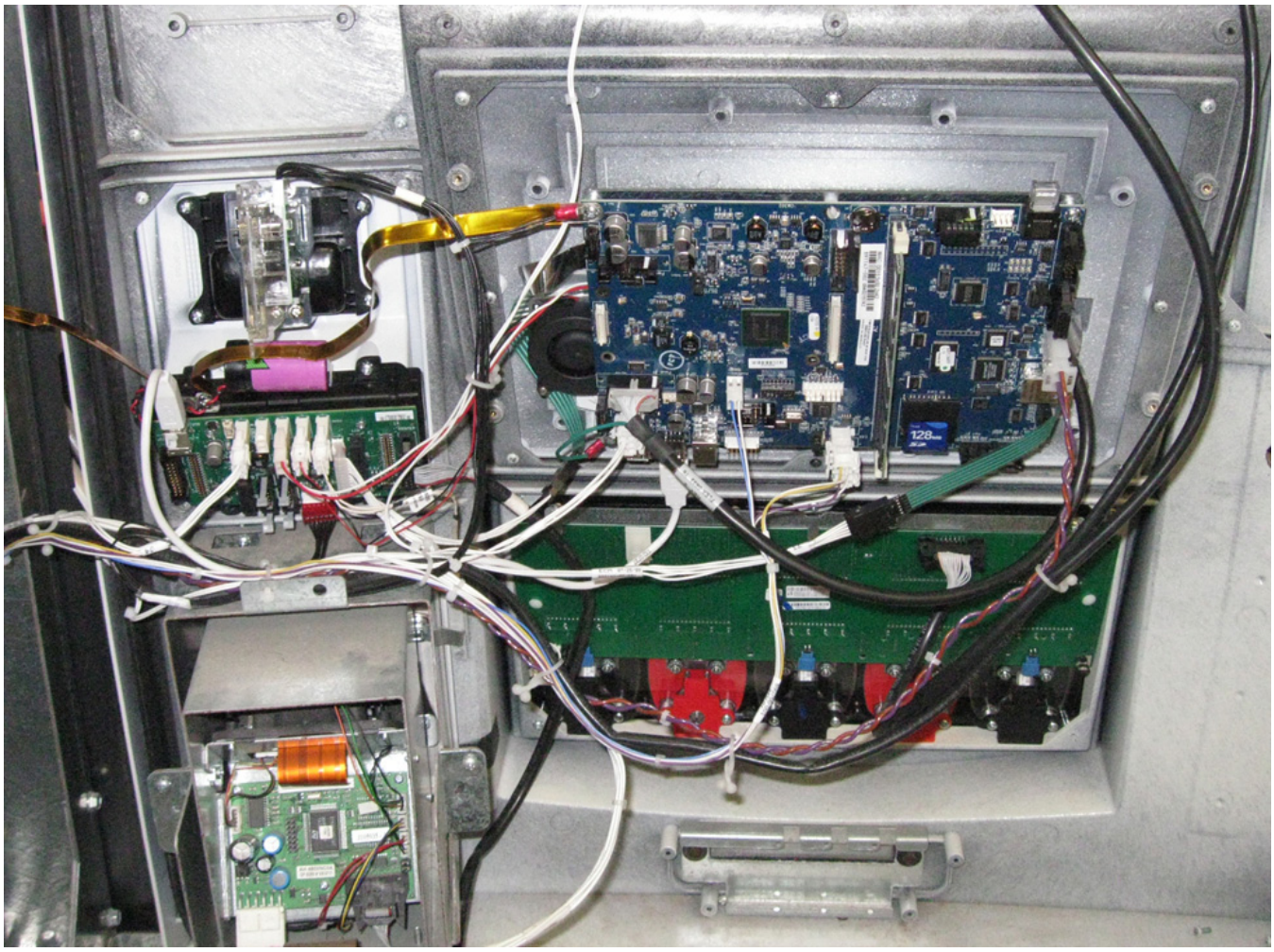


FIGURE B2

2.3 Instructions for Model xD2 - to Upgrade an Existing QCAT That Has Softkeys

SEE FIGURES B1, B2, and C

1. Power down the dispenser at the circuit breaker.
2. Unlock and open the bezel/door on both sides of dispenser.
3. Starting on Side 1, disconnect cable from Card Reader. Disconnect and discard cable from keypad to QCAT.
4. Remove the (4) screws from the card read/keypad panel and remove the panel. Save panel for reusing the card reader.
5. Remove the gasket and any gasket residue around the bezel window.
6. Install new Gasket (888341-005) around the window.
7. Remove card reader from old panel. Discard card reader gasket and panel.
8. Install new Gasket (887435-001) and install card reader onto the new SPM panel (WU001811-0001) using 4 Screws (6005901).
9. Install the SPM panel onto the dispenser bezel using 4 Screws (6005901).
10. A. Determine if the existing bracket has threaded holes in the 4 corners for screws securing the circuit board.

    B. Determine if the existing QVGA display has CCFL backlight or LED backlight.

    Note: A CCFL backlight has two white wires that plug into the lower left part of the QCAT board. An LED backlight has one white and one red wire that connects to 24 volt power harness from DC Dist Bd.

11. Perform step A or step B below, as applicable (per step 10 and note above):

    A) For brackets that *do not* have threaded holes in the 4 corners, install new Bracket (892115-001) as follows:

    1) Disconnect all cables from the QCAT board and remove the board.
    2) Remove display from bracket. Save the display and screws, discard display cable.
    3) Remove the bracket from the display panel. Save screws, discard bracket.
    4) Install the display onto the new (item 12) Bracket reusing the screws or use #4 Screws (6005907).
    5) Install bracket onto the panel reusing the screws.
    6) Connect Display Cable (888798-002) to the display. NOTE: The new cable has a ground wire.
    7) If display has an LED backlight, discard QCAT board; or if display has a CCFL backlight, install QCAT board onto the bracket using 4 Standoffs (918173).

B) For brackets that do have threaded holes in the 4 corners:

1) Disconnect all cables from the QCAT board and discard display cable.

2) Connect new display cable (888798-002) to the display. (NOTE: New cable has a ground wire.)

3) If display has an LED backlight, remove and discard QCAT board, or if display has a CCFL backlight, remove the 4 screws from the QCAT board and install QCAT board onto the bracket using 4 Standoffs (918173) (Figure 7). Reconnect backlight to the QCAT board and install Power Jumper Cable (890593-001).

12. Using 4 Screws (6005901), install the iX board onto the bracket or onto the QCAT board standoffs (Figure 7).

13. Discard the following cables:

A) Card reader cable if existing cable does not have a separate ground wire with lug attached.

B) 24V power cable between the sales/vol display and 24VDC Distribution board (or jumper harness if applicable).

C) Gold-colored ground strap from chassis to iX board or keypad.

14. Connect the following cables, referring to Figures B1 and B2:

A) Existing DL wires (brown and violet twisted pair) to the iX board J19 (Port #3).

B) Connect the previously-installed Display Cable (888798-002) to iX board bottom display connector and secure ground wire under the corner screw on the board, and if iX (red) board, connect display cable (888798-005) to iX board top display connector. Route over to side 2 for connecting to display.

C) New USB Cable (892139-001) to the iX Board USB 1 connector and to the SPM USB connector. If iX (red) board, connect the -001 cable to side 1 SPM and connect the 888798-005 cable over to side 2 SPM when installed.

D) New DC Power Cable (892120-001) as follows:

P7/P6 (2-pin) to a spare connector on DC Distribution board,
J3 (2-pin) connector to the (2-pin) connector on the Sales/Vol display board,
P19 (6-pin) to the iX board J16 Power connector, or to QCAT Power Jumper cable
J4 (2-pin) to the SPM board J1 connector.

E) If existing cable did not have an ground wire, install Card Reader Cable (850350-002), as required, to the card reader and to the SPM board J10. (An existing cable with ground wire may be used.

F) Softkey Cable (892141-001) to SPM board J6 connector and to left and right softkeys.

G) Printer cable to SPM board Printer connector J11.

H) If present, scanner cable to SPM board scanner connector J15.

I) Connect the ground strap (gold-colored) that is on the SPM over to Chassis and secure with #10 Screw (6001105) and Nut (6019401). Be sure the ground strap does not get pinched in the door when closing.

J) Connect the SPM and Card Reader ground wires to the upper left corner screw on the IX board.

K) Connect the Wire Harness (850350-002) as follows:

The two connector end of cable (2-pin) & (4-pin) connects to iGEM board as follows:
P6 to J22 Buzzer A and P7 to J13 CAN.
The three connector end of cable connects to side 1 iX board as follows:
ANNUN P4 to J18 Annunciator, P3 to J4 CAN, and P5 to J31 CAN.
The other end with the two 2-pin connectors should be routed through the grommet in the center column for the iX board on side 2 when installed below.

15. Apply the CE Label (891564-001) to the inside center column.

16. Repeat steps 3-11, 12 (if blue board), 13, 14B-J, and 15 (if blue board), for side 2 of dispenser.

17. Skip the next step If iX (red) board (figure 9) is installed on side 1.

18. Connect the wires that were routed over from side 1 to the side 2 iX board as follows:
ANNUN P1 to J18 Annunciator,
CAN P2 to J4 CAN

19. Close and lock service doors.

20. Power up dispenser.

21. Refer to Startup and Service Manual (940014) for starting up the SPM.

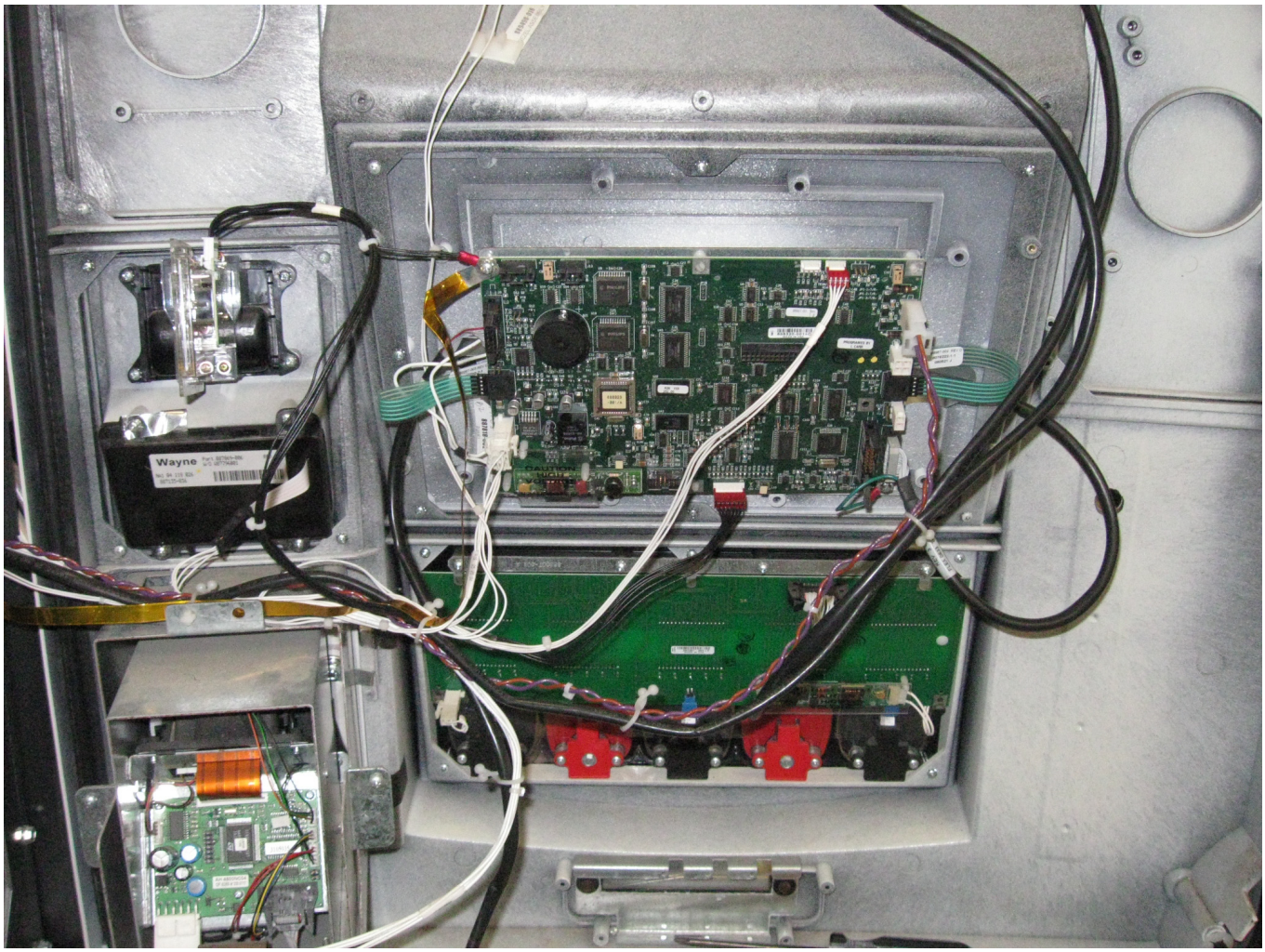


FIGURE C

2.4 Instructions for Model xD1 - To Upgrade A Standard Ovation QCAT (Without Softkey)

SEE FIGURES 1 THRU 7.

1. Power down the dispenser at the circuit breaker.

2. Unlock and open the bezel/door on both sides of dispenser.

3. Starting on Side 1, disconnect cable from card reader. Disconnect and discard cable from keypad to QCAT.

4. Remove the (4) screws from the card read/keypad panel and remove the panel. Save panel for reusing the card reader.

5. Remove the gasket and any gasket residue around the bezel window.

6. Install new Gasket (888341-005) around the window.

7. Remove card reader from old panel. Discard card reader gasket and panel.

8. Install new Gasket (887435-001) and Card Reader onto the new SPM Panel (WU001811-0001) using 4 Screws (6005901).

9. Install the SPM panel onto the dispenser bezel using 4 Screws (6005901).

10. Disconnect all cables from the QCAT board.

11. Remove the screws from the QCAT board and lift board from the plastic standoffs on the bracket.

12. Disconnect and remove the chassis ground strap from the main chassis. Save screws, discard ground strap.

13. To gain access to the top middle screw on the display panel, remove the bracket screws securing the bracket to the display panel and remove bracket (with QVGA display) (Figure 2). Save the QVGA display for later use. Discard display cable.
    Caution: Hold display glass to keep it from falling inward when removing the bracket.

14. Remove (8) Phillips screws and remove display panel (Figures 3 & 4). Save screws.

15. Remove the gasket around the display panel window and remove all gasket residue.

16. Install new Gasket (888341-001) around the window.

17. Remove the QVGA display from the old bracket/panel and install on the new (item 22) Display Panel Bracket (WU001810-001) reusing the screws or use 4-40 Screws (6005907) (Figure 5).

18. Install new Display Panel assembly (WU001810-001) reusing (8) Phillips screws or use (item 3) screws.

19. Connect Display Cable (888798-002) to the display.

20. Determine if the existing QVGA display has CCFL backlight or LED backlight.

    NOTE: A CCFL backlight has two white wires that plug into the lower left part of the QCAT board. An LED backlight has one white and one red wire that connects to 24 volt power harness from DC Dist Bd.

21. If display has an LED backlight, discard QCAT board; or if display has a CCFL backlight, install QCAT board onto the new bracket/panel using the Standoffs (918173). Reconnect backlight to the QCAT board and install Power Jumper Cable (890593-001).

22. Using 4 Screws (6005901), install the iX board onto the bracket, (Figure 6), (or onto the QCAT board standoffs) and connect the power jumper cable, (Figure 7).

23. Discard the following cables, if applicable:

    A) Card Reader Cable if existing cable does not have a separate ground wire with lug attached.

    B) 24V power cable between the Sales/Vol Display and 24VDC Distribution board.

24. Connect the following cables (Figures 5 and 6):

    A) Existing DL wires (brown and violet twisted pair) to the iX board J19 (Port #3).

    B) If iX (red) board (Figure 9), connect new display cable (888798-005) to iX board top display connector and route over to side 2 for connecting to display.

    C) New USB Cable (892139-001) to the iX board USB 1 connector and to the SPM USB connector. If iX (red) board, connect the new display cable (888798-005) cable to the iX board and route over to side 2 for connecting to SPM.

    D) New (item 7) DC Power Cable (892120-001) as follows:

    P7/P6 (2-pin) to a spare connector on DC Distribution board,
    J3 (2-pin) connector to the (2-pin) connector on the Sales/Vol display board,
    P19 (6-pin) to the iX board J16 Power connector, or to QCAT Power Jumper cable
    J4 (2-pin) to the SPM board J1 connector.

    E) If existing card reader cable does not have a ground wire, install Card Reader Cable (850350-002), as required, to the card reader and to the SPM board J10. (An existing cable with ground wire may be used.)

F) Softkey cable (892141-001) to SPM board J6 connector and to left and right soft-keys.

G) If QVGA Display has an LED Backlight, connect backlight cable (red&white) to SPM board J2, and, if applicable, connect the QVGA display fan cable (red&black) to SPM Board J3.

If QVGA Display has a CCFL Backlight, connect the two white backlight wires to the QCAT board.

H) Printer cable to SPM board Printer connector J11.

I) If present, scanner cable to SPM board scanner connector J15.

J) Connect the ground strap (gold-colored) that is on the SPM over to Chassis and secure with #10 screw (6001105) and Nut (6019401). Be sure the ground strap does not get pinched in the door when closing.

K) Connect the other ground strap that is on the SPM and connect the card reader ground wire over to the IX board upper left corner screw.

L) Connect the Wire Harness (890766-001) as follows:

The two-connector end of cable (2-pin) & (4-pin) connects to iGEM board as follows:
P6 to J22 Buzzer A and P7 to J13 CAN.
The three connector end of cable connects to side 1 iX board as follows:
ANNUN P4 to J18 Annunciator, P3 to J4 CAN, and P5 to J31 CAN.
The other end with the two 2-pin connectors should be routed through the grommet in the center column for the iX board on side 2 when installed below.

25. Apply the CE Label (591564-001)to the inside center column.

26. If the site's POS control system does not support softkeys, apply the Softkey Cover Decal (882941-) on top of the softkeys on the QVGA panel.

27. Repeat the above steps 3-18, 20-21, 22 (if blue board), 23, 24B-K, and 25 (if blue board) for opposite side of dispenser. NOTE: Skip the next step if iX (red) board is installed on side 1.

28. Connect the wires that were routed over from side 1 to side 2 of the iX board as follows:
ANNUN P1 to J18 Annunciator,
CAN P2 to J4 CAN

29. Close and lock service doors.

30. Power up dispenser and follow the procedure in the Startup section of this manual.

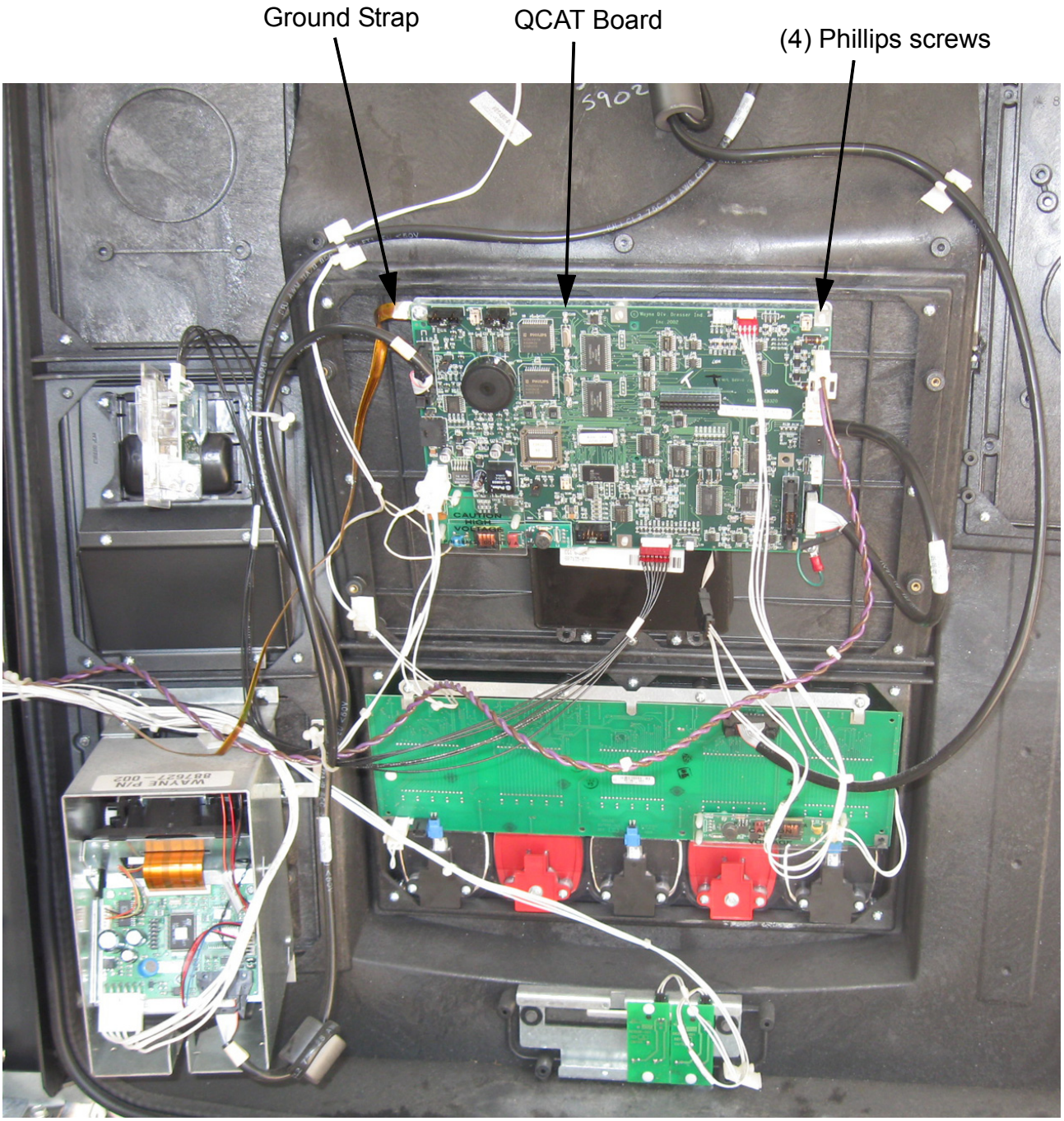
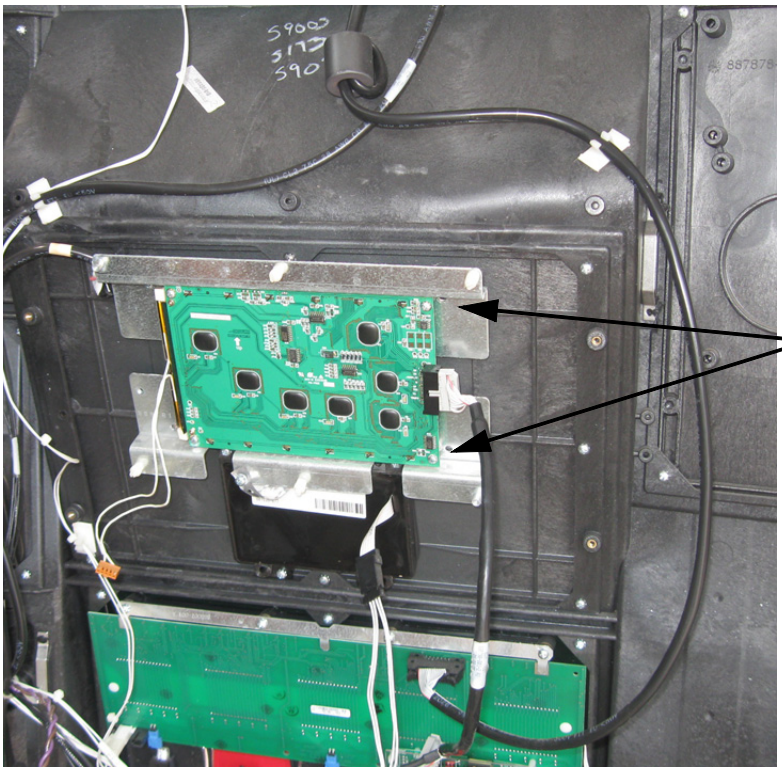


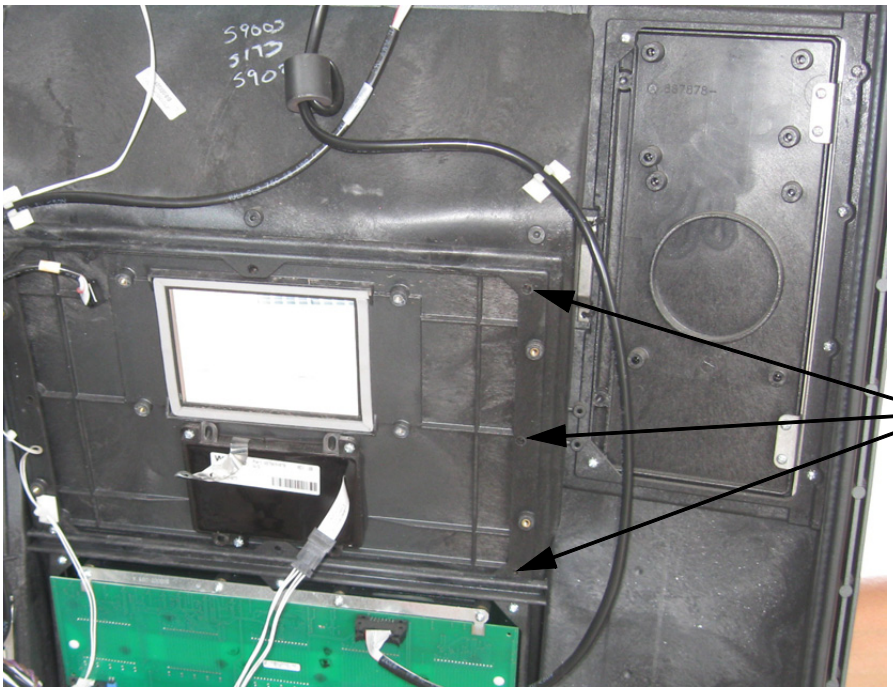
FIGURE 1



(4) Phillips screws on bracket

Note: Ensure display glass behind bracket does not fall when removing bracket.

FIGURE 2



(8) Phillips screws on panel

FIGURE 3

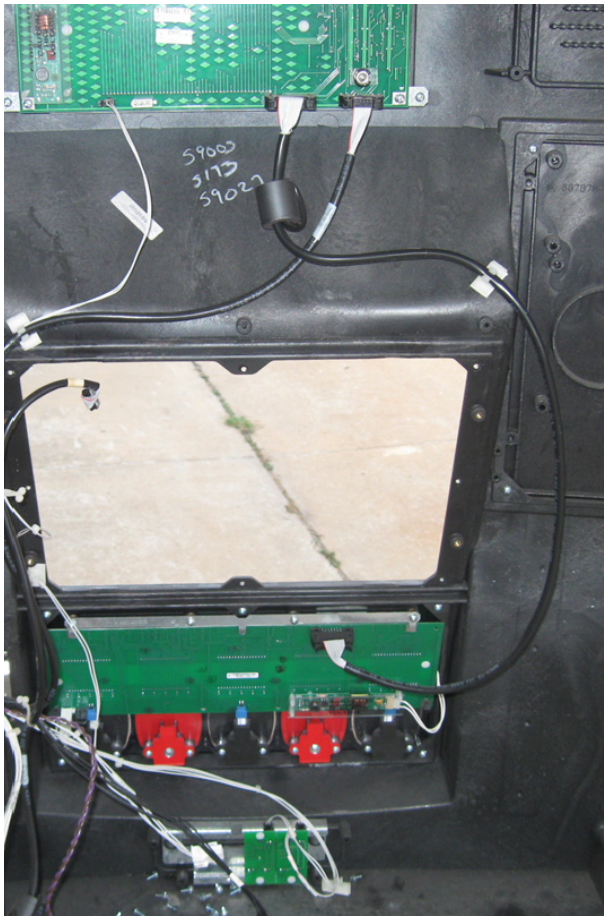


FIGURE 4

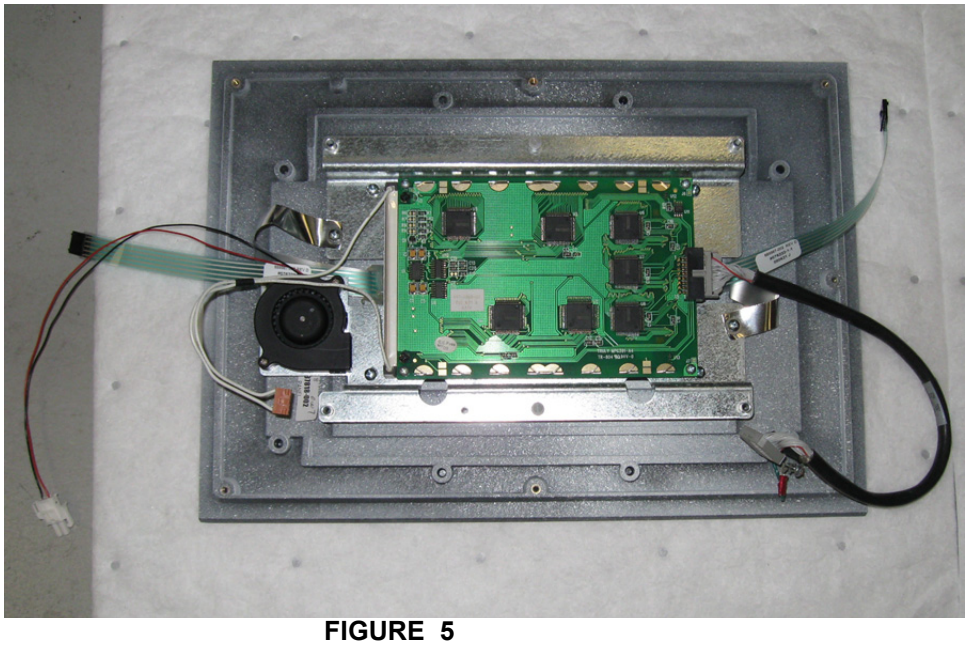


FIGURE 5

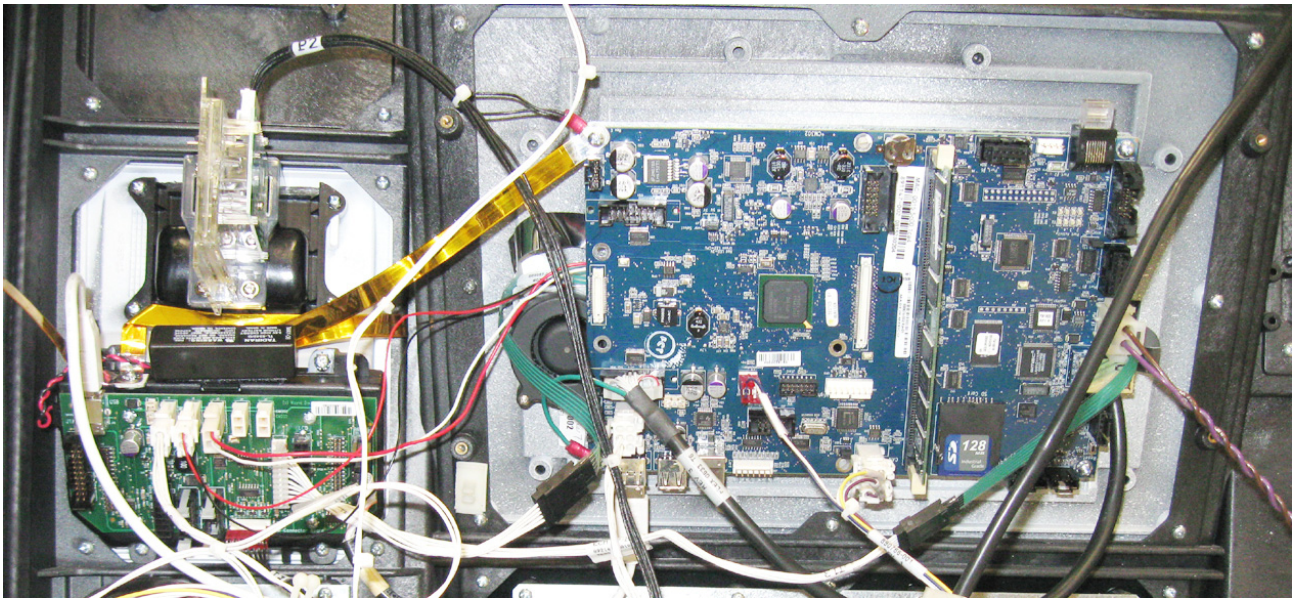


FIGURE 6 iX INSTALLED ON BRACKET

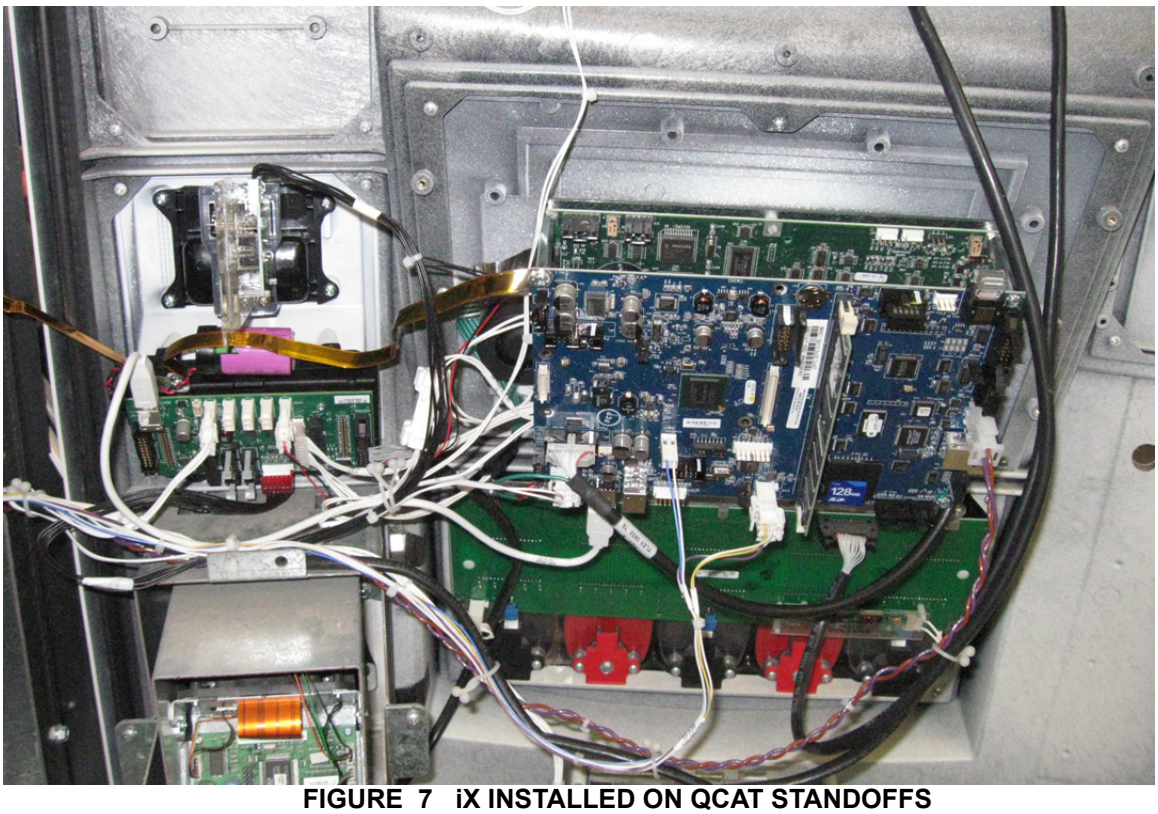


FIGURE 7 iX INSTALLED ON QCAT STANDOFFS

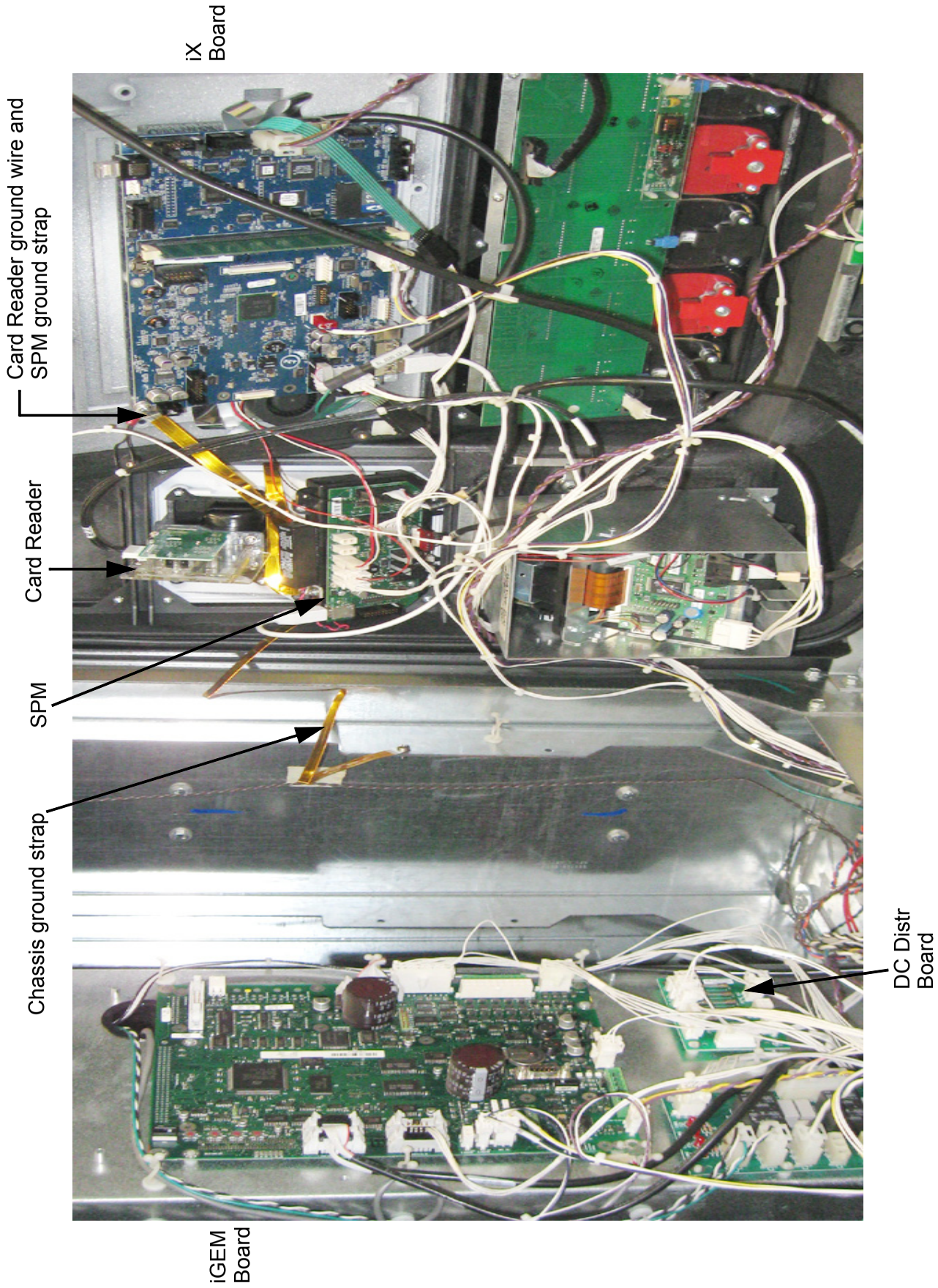

iX Board
Card Reader ground wire and SPM ground strap
Card Reader
SPM
Chassis ground strap
iGEM Board
DC Distr Board

FIGURE 8

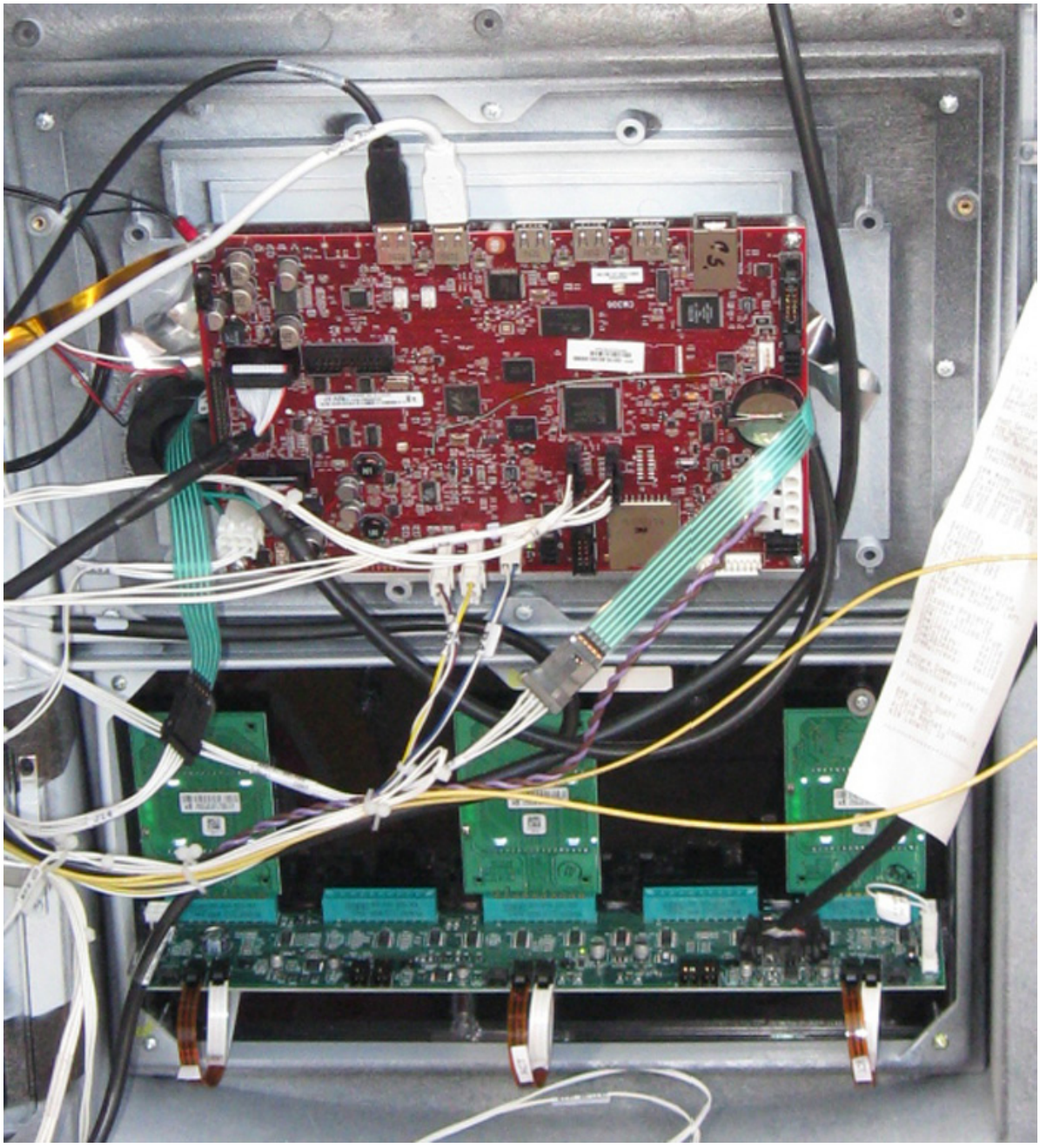
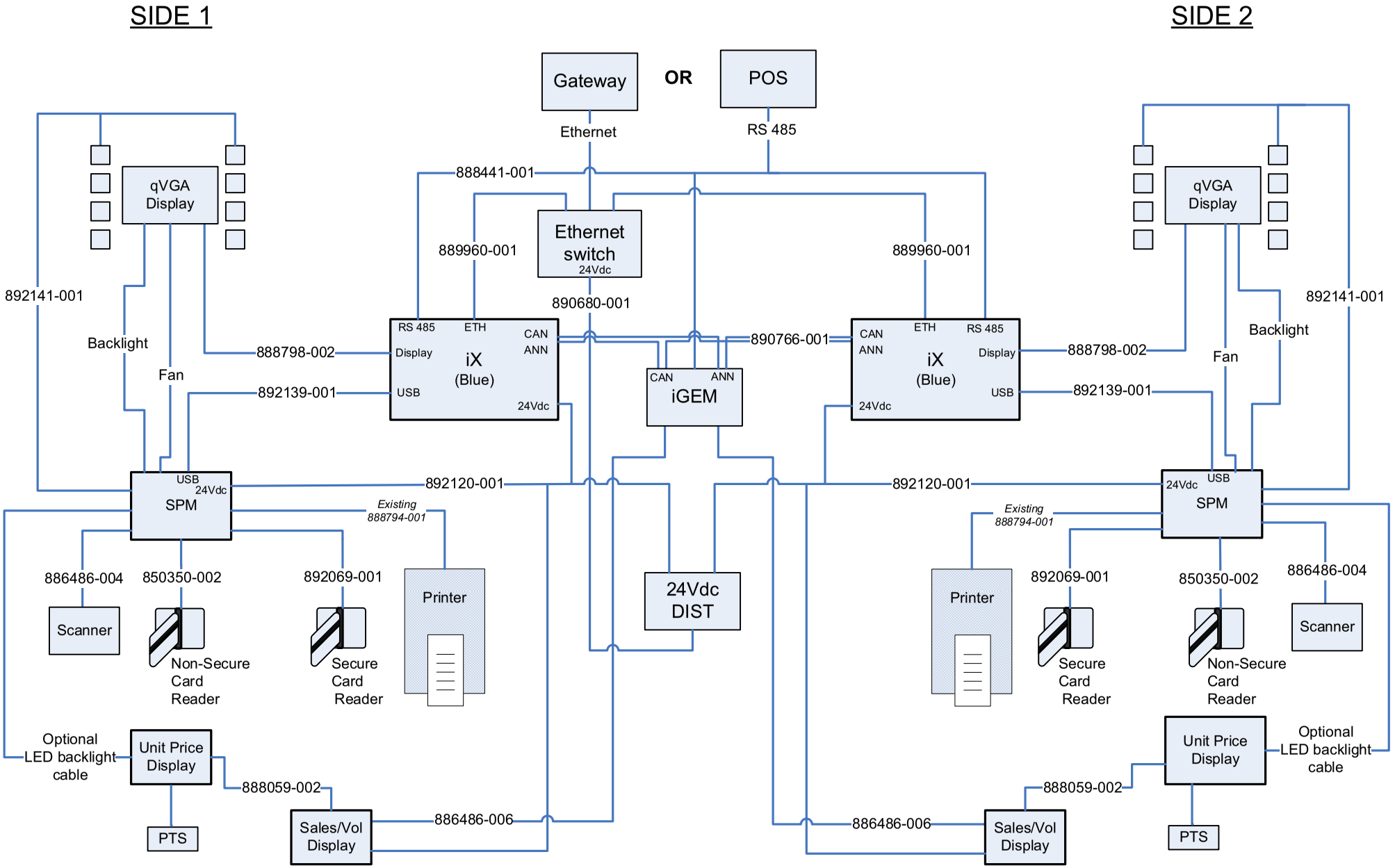
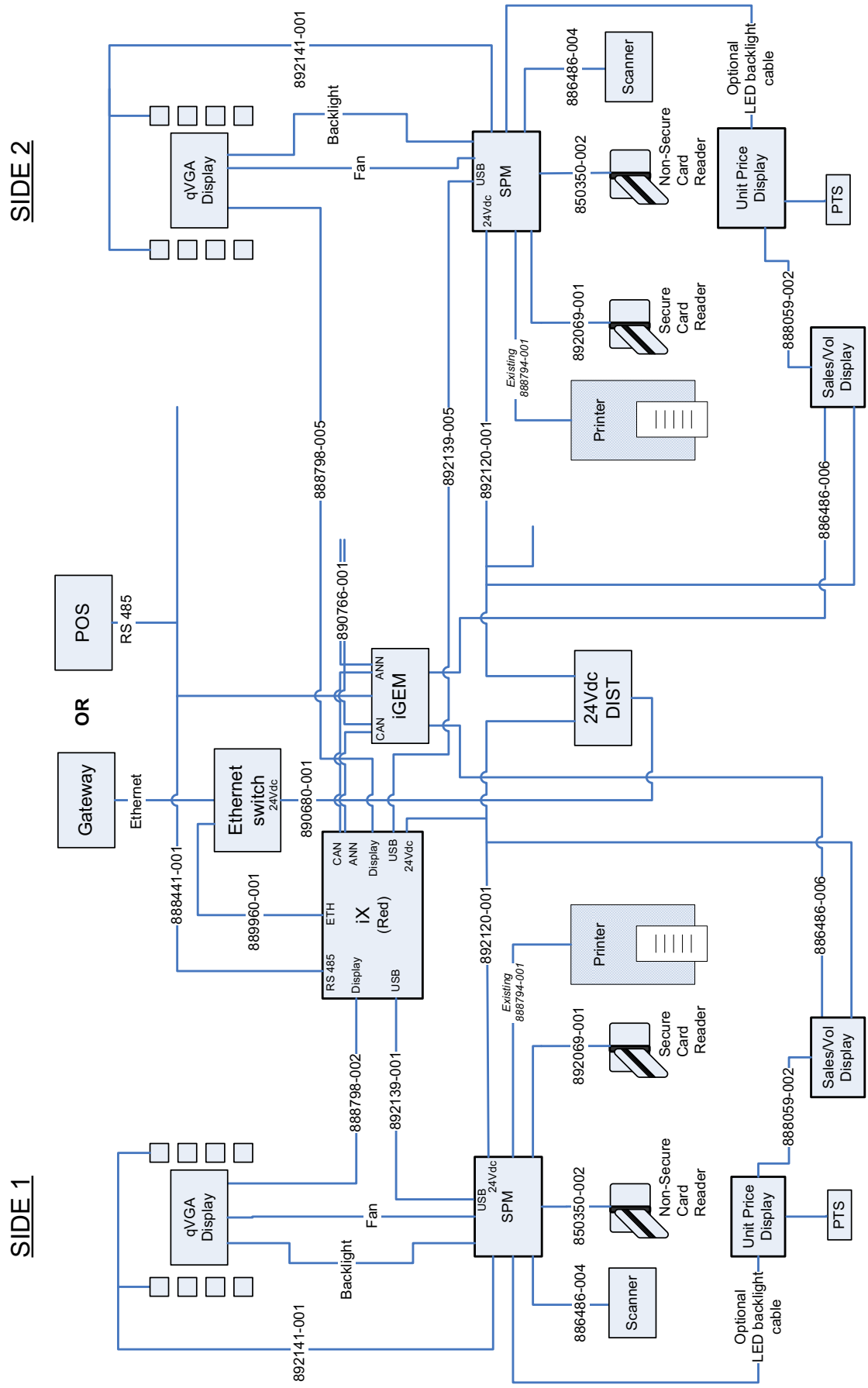


FIGURE 9 - Dispenser door with iX (red) Board

Ovation qVGA iX Pay SPM Retrofit Wiring Diagram
(Blue Boards)



Ovation qVGA iX Pay SPM Retrofit Wiring Diagram (Red Board)



INSTALLATION MANUAL

iX™ Pay Secure Payment
Ovation Retrofit Kit

Written by S. G. Martin

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