

iXTM Pay Secure Payment

INSTALLATION

iX Pay (U.S.) Retrofit
Kit for Tokheim Premier C
Narrow Body Dispensers

ONLY SPM CERTIFIED TECHNICIANS
SHOULD INSTALL THIS KIT



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

Problems with the installation of this kit 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.

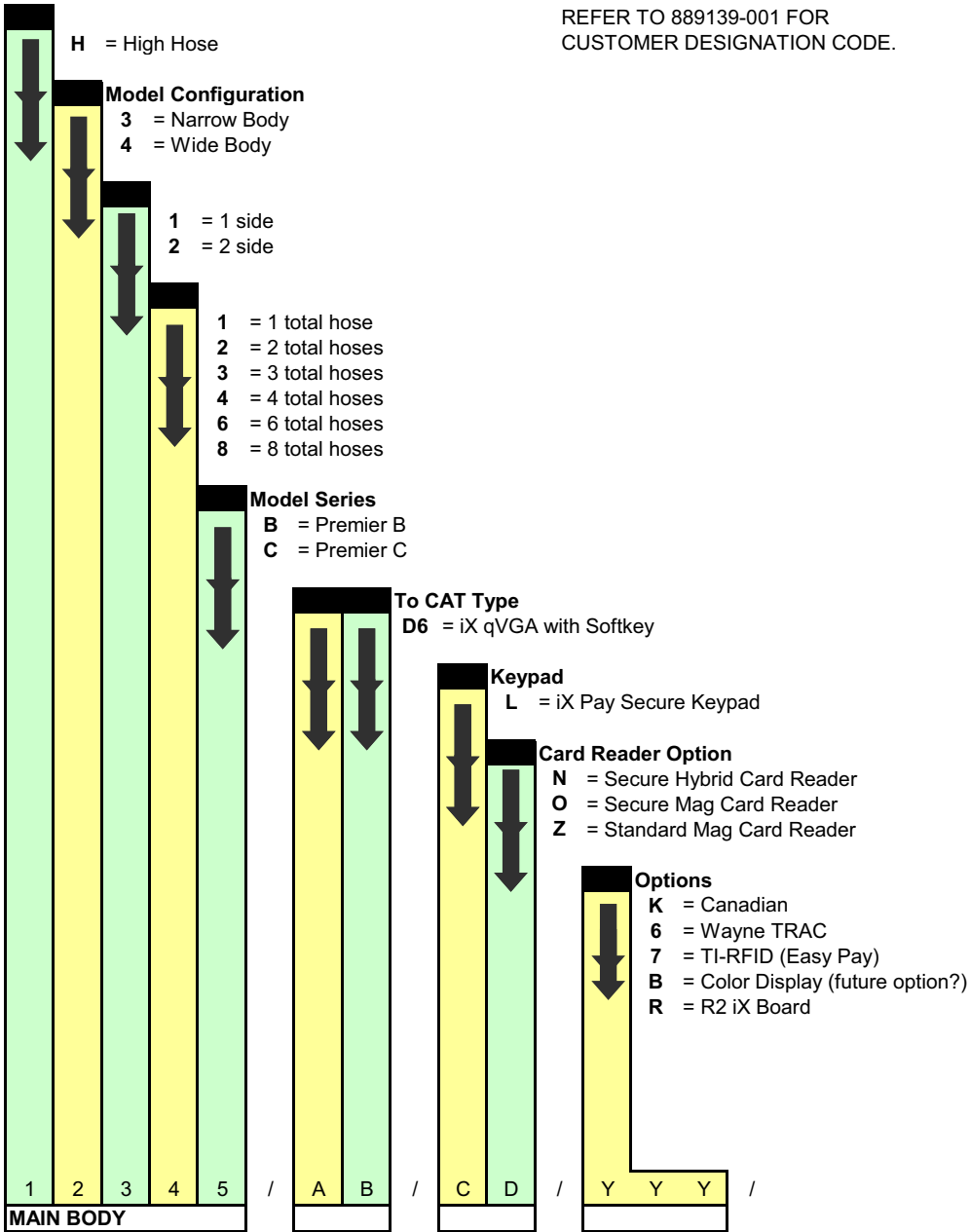
Secure Payment (SPM) (U.S.) Kits for Tokheim Premier C Narrow Body Dispensers

Installation

WU003100, CONFIGURATION MATRIX, TOKHEIM IX PAY
Rev 04

Premier iX PAY Retrofit Kit
MODEL DESIGNATOR CHART

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



1 INTRODUCTION

This manual provides instructions for installing the iX(TM) Pay Secure Payment Retrofit Kit in Tokheim Premier C (Narrow Body) dispensers. The kits will be configured at the time of order based on the type of dispenser to be retrofitted as defined by the Kit Model Designation Chart on the previous page. The kit part numbers (model numbers) will be in the format 12345/AB/CD/YYY as defined by the chart. This manual applies to kit models x4xxC/ where 3 represents Narrow body and C represents Premier C.

Address questions concerning installation of this kit to Wayne Technical Support at 1-800-926-3737.

1.1 Parts Required

The parts and quantities that are included in each kit are shown on the following pages.

1.2 Tools Required

Non-sparking hole punch tool

Rivet tool Wire strippers and crimp tool

Allen wrenches Socket wrenches

Screwdrivers Nut drivers

1.3 Safety Precautions

Before beginning the installation of this kit, block off the work area with safety cones.

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:

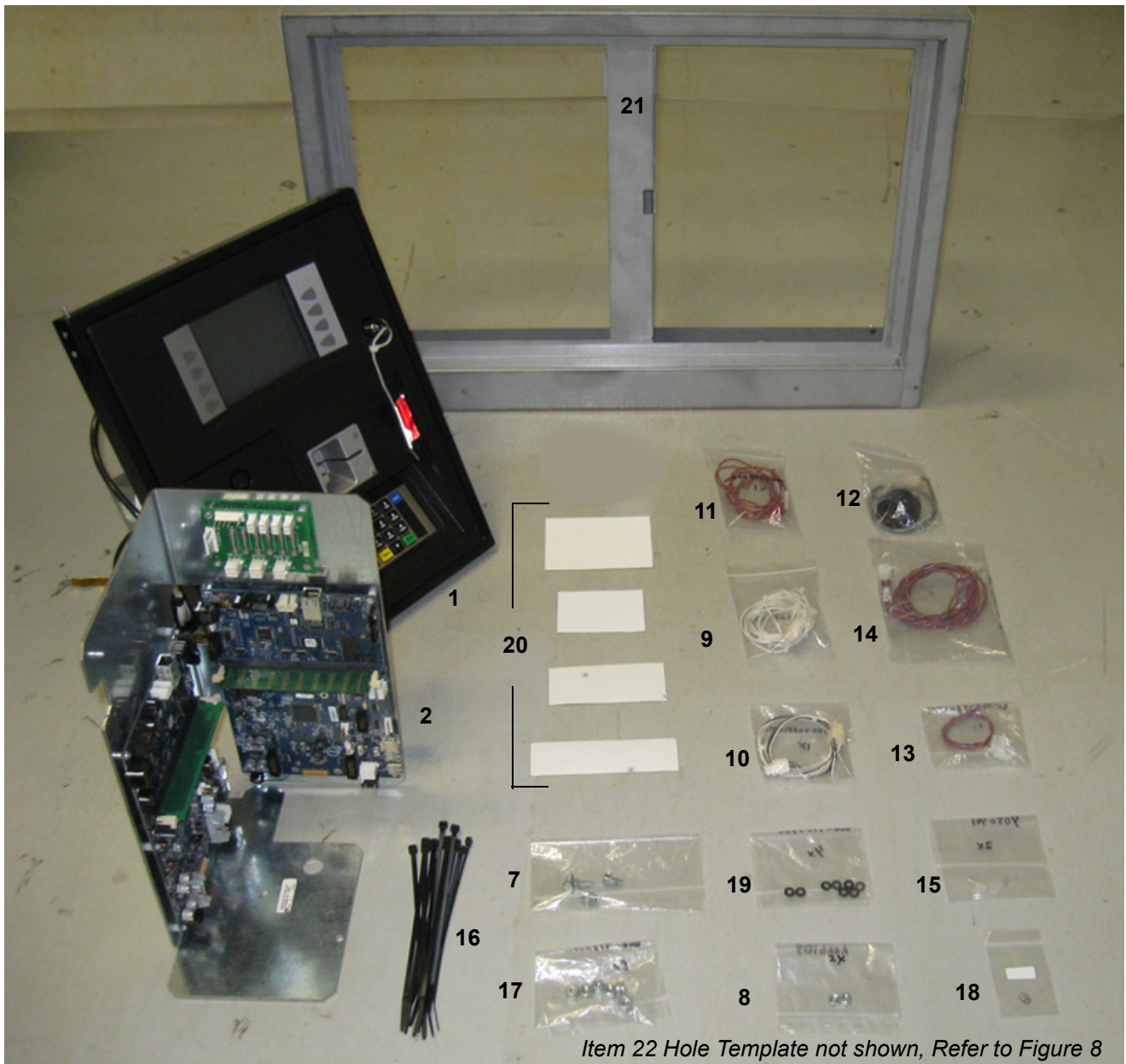
- Only persons knowledgeable in performing the required maintenance shall perform the work.
- All electrical power to the dispensing device and pump serving the dispenser shall be shut off at the main electrical disconnect panel.
- The emergency shut-off valve at the dispenser, if installed, shall be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



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)*.

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SEE PARTS LIST FOR QUANTITIES SUPPLIED

FIGURE 1 PREMIER C NARROW BODY PARTS



Non-sparking hole punch.
Shown here for example only.
Not provided in kit.
See "Tools Required."



Prior to installation, inspect the kit and ensure that it contains all the required parts as shown by the item numbers in Figure 1 and listed in Table 1.

Table 1 Parts Included in the Kits

Part Number	Description	QTY For Dual Sided	QTY For Single Sided	Item No.
WU001604	iX Pay Secure Payment Door	2	1	1
WU002103-0001	iX Bracket	1	1	2
WU001031	Secure iX Board Assembly (Blue)	2	1	3 part of item 2
WU003096	Secure iX R2 Board Assembly (Red)	2	1	3 part of item 2
887223-001	DC Distribution Board	1	1	4 part of item 2
882505-002	#6 Nylon Standoffs	13	8	5 part of item 2
6005901	#6 Screws 3/8	3	2	6 part of item 2
69-55392	1/4-20 Sheet Metal Screws - for iX bracket	2	2	7
6019404	#10 Nut	2	2	8
892369-002	Y Power cable - DC Dist to iX Board (s)	1	1	9
WU002266-0001	Power cable - Power Supply to DC Dist	1	1	10
WU002090-0001	Y Annunicator cable	1		11
886495-001	Annunicator	1	1	12
WU002266-0001	Cable Data Link (RS485) - short splice cable	1	1	13
WU002091-0001	Cable Data Link (RS485) - long Y cable	1	1	14
4050401	Crimp Wire Connectors	2	2	15
001-916486-	Cable Ties	10	10	16
000-918210-	1/4-20 Nut	12	6	17
000-913632-	Washer, #10 Star	2	2	18
000-131445-	Nylon Washer/Spacer	4	2	19
WU2893207-0001	Cover Decal	2	1	20
WU002355-0001	Extension Door Enclosure/Frame	2	1	21
WU003165-0001	Template - for hole punch	1	1	22
6018404	Rivets	4	2	23 not shown
W2940043-001	Installation Manual	1	1	not shown

2 **INSTALLATION** Note: Adhere to the safety precautions listed in Section 1.3

WARNING: DO NOT USE POWER TOOLS WHEN WORKING IN THE HAZARDOUS ZONE.

Turn off power to dispenser at circuit breaker inside the building before starting this procedure.

2.1 **Installation Instructions For Tokheim Premier C Narrow Body**

1. On both sides of dispenser, unlock and open printer door, then unlatch the right door. (The latch is behind the door, Figure 2.)
2. Disconnect power at dispenser at AC Distr board J8 AC In connector, Figure 3.
3. Remove hydraulic doors on both sides.
4. Use 5/16 nut driver to remove the nut and green ground wire from each door, both sides. Save the nuts.
5. Disconnect all cables from the doors that go into the electronics head.
Note: On the sales display door, mark the location of the cables as some of the cables will be reconnected. The cables to be reconnected are shown in Figure 14.
6. Fold back door gasket on upper inside of door to access the hinge pin, Figure 4. Release the pin using a screwdriver and remove door. Repeat for each door. Discard the door that contains the printer/keypad.
7. Remove the (2) Phillips screws on the ends of the ad panel holder and remove the (3) 3/8 hex head screws on the inside of the ad panel frame, then remove the frame. Save all parts for now.
8. A. Disconnect all cables from the DPT boards, Figure 5.
B. Remove nut and disconnect green ground wire(s) from the DPT bracket. Save nut.
9. Remove and discard the (2) 3/8 Hex head screws that are securing the DPT bracket to the dispenser head chassis and remove the DPT bracket with boards. Discard all parts or save as necessary per customer/site scope of work.
10. Repeat steps 5-7 on opposite side.

11. Untie wrap and discard all cables that were disconnected from the DPT boards and all cables disconnected from the printer doors, including cables to J16 and J17 on the Motherboard (Figure 5) and cable to J3 on DC Power Supply (Figure 6) (to access J3, remove and save screw at bottom of power supply, slide power supply out, move fish paper guard, disconnect J3, and slide power supply back in for now).

Note: The cables shown in Figure 14 will be reconnected when the Sales Display door is reinstalled.

12. A. Use the template (WU003165-0001) to mark location of top 3 holes to be punched in the head frame as shown in Figure 8.

B. Using a non-sparking hole punch, punch hole in the three marked locations. Ensure that metal punches are carefully removed and none are allowed to enter the electronic head.

13. Install the Extension Door Frame (WU002355-0001) using (6) 1/4-20 Nuts (918210) on the stud screws on the inside of the frame. Use 7/16 nut driver (Figure 9).

14. IF BLUE BOARD - Install iX Bracket (WU002103) into the dispenser using (2) Sheet Metal Screws (69-55392). The bracket is installed on the side of the dispenser where the stud is provided to make the ground wire connections as shown in Figure 7.

IF R2 (RED BOARD) - Install iX Bracket (WU002103) into the dispenser using (2) Sheet Metal Screws (69-55392). The bracket is installed on the side of the dispenser where the stud is provided to make the ground wire connections as shown in Figure 7.

15. Connect the green ground wire(s) (disconnected from the old bracket) to the iX bracket reusing the nut from the old bracket.

16. A. On the ad panel frame saved previously, slide the ad panel out from the holder and remove the (3) rivets securing the holder to the frame.

B. Install the ad panel holder onto Extension Door Frame using (2) Rivets (6018404).

C. Slide the ad panel into the holder and secure the ends reusing (2) Phillips screws.

17. A. Install (2) Nylon Washers (000-131445-) onto the right door pin on the Extension door frame.

B. Reinstall the Sales Display door: place bottom of door onto the right door pin, fold back gasket in upper left corner and use flat blade screwdriver to pull down and then release pin into the extension door frame.

- C. Reconnect the ground wire to the door reusing the nut.
 - D. Reconnect cables to the Sales Display door assembly as shown in Figure 13.
18. A. Install (2) Nylon Washers (000-131445-) on the left door pin on the Extension door frame.
- B. Install (1) SPM Secure Payment Door assembly (WU001604) see Figure 9, placing bottom of door onto the pin first, folding back gasket in upper right corner and pulling down releasing pin into the extension frame.
19. Refer to Figures 7 and 9, and connect the cables from the SPM assembly as follows:
- A. Secure gold-colored ground strap to the inside head chassis (to the existing screw) or use (1) #10 Washer 000-913632 and (1) #10 Nut 6019404.
 - B. IF BLUE BOARD - QVGA Cable (888798-004) to the iX board (J20) Port #1.
 - IF R2 (RED) BOARD - QVGA Cable (888798-004) to the iX board "J24" for Side A and "J23" for Side B.
 - C. IF BLUE BOARD - USB cable (892139-003) to the "USB 1" connector on the iX Board.
 - IF R2 (RED) BOARD - USB cable (892139-003) to the iX Board "J27" connector for Side A and the "J28" connector for Side B.
 - D. Printer power cable (880566-xxx) to the 6-pin Printer 1 connector on DC Dist board.
 - E. SPM 2-pin Power cable (890680-003) to either of the 2-pin connectors on the DC Dist board.
20. Repeat above Steps 14 -19 on opposite side.
21. IF BLUE BOARD - Connect Y-jumper cable (892369-002) to either of the spare 2-pin connectors on the 24V DC Dist. Board and to both iX boards 6-pin Power connector.
- IF R2 (RED) BOARD - Connect Y-jumper cable (892369-002) to either of the spare 2-pin connectors on the 24V DC Dist. Board and to the iX board 6-pin Power connector, "J11".
22. Connect Power cable (WU002265-0000 to J3 on the DC Power supply (Figure 6) and to J1 on the DC Dist board.
23. IF BLUE BOARD - Connect RS485 Y cable (WU002091-0001) to both iX boards (J19 Port #3) and connect the other end to the (WU002266-0001) RS485 short cable.
- IF R2 (RED) BOARD - Connect RS485 Y cable (WU002091-0001) to iX board (J17 Port #3) and connect the other end to the (WU002266-0001) RS485 short cable.

24. Locate the existing RS485 (Blue, Orange and Yellow) wires that are wire nutted together as shown in Figure 10. Cut these wires a few inches from the large connector as shown in Figure 11. Discard the wires that are still wire nutted together. Locate the crimp connectors on the RS-485 wiring harness Figure 10, then remove connectors/cut connectors and discard harness. Strip the Blue and Yellow wires.

As shown in Figures 12 and 13, use Crimp Connectors (4050401) and crimp the Blue wire to the WU002266-0001 Brown wire and crimp the Yellow wire to the WU002266-0001 Violet wire. Tape the end of the unused orange wire.

(RS485+) Blue wire to Brown wire.
(RS485-) Yellow wire to Violet wire.

25. Unscrew the cover on the Annunciator (886495-001) insert annunciator into the slot on the iX bracket and re-secure the cover, Figure 7.
26. IF BLUE BOARD - Connect Annunciator Y cable (WU002090-0001) to the Annunciator and to both iX boards J18 Annunciator connector located in the lower center of the board.

IF R2 (RED) BOARD - Connect Annunciator Y cable (WU002090-0001) to the Annunciator and to iX board J5 Annunciator connector located in the lower center of the board.
27. Reconnect AC power to the AC Dist board J8.
28. Bundle and tie wrap all cables where possible, using Cable Ties (001-916486-).
29. Ensure all cables are secured to the doors and are safely secured inside the head as applicable.
30. Remove C-clips and latches (Figure 2) from existing doors and reinstall on the new extension foot frame (Figure 10).
31. Close and latch the Sales Display door and close and lock the Secure Payment door on both sides. A completed enclosure is shown in Figure 16.
32. Reinstall hydraulic doors on both sides.
33. As applicable, cover old graphics or QVGA displays, keypads and softkeys using the (WU2893207-001) Cover Decals provided.
34. Turn circuit breaker on to the dispenser.

35. Follow the procedures in the SPM Startup manual (940014) to test and place the SPM into operation. Verify SPM and dispenser operation.

Note: Printer should be set to 115K Baud Rate. If printer does not print configuration report, check jumpers on back of the Clamshell printer. The top jumper should be across the two pins and the bottom jumper moved to the left (not across the pins).

Note: See service memo SM09-02 for Verifone POS settings.

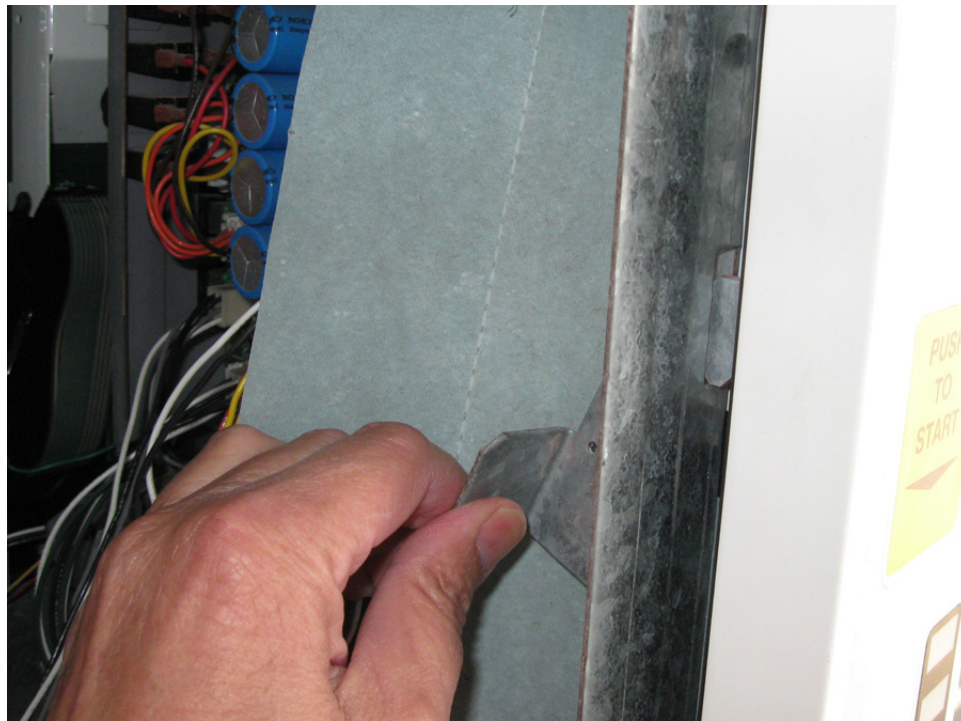


FIGURE 2

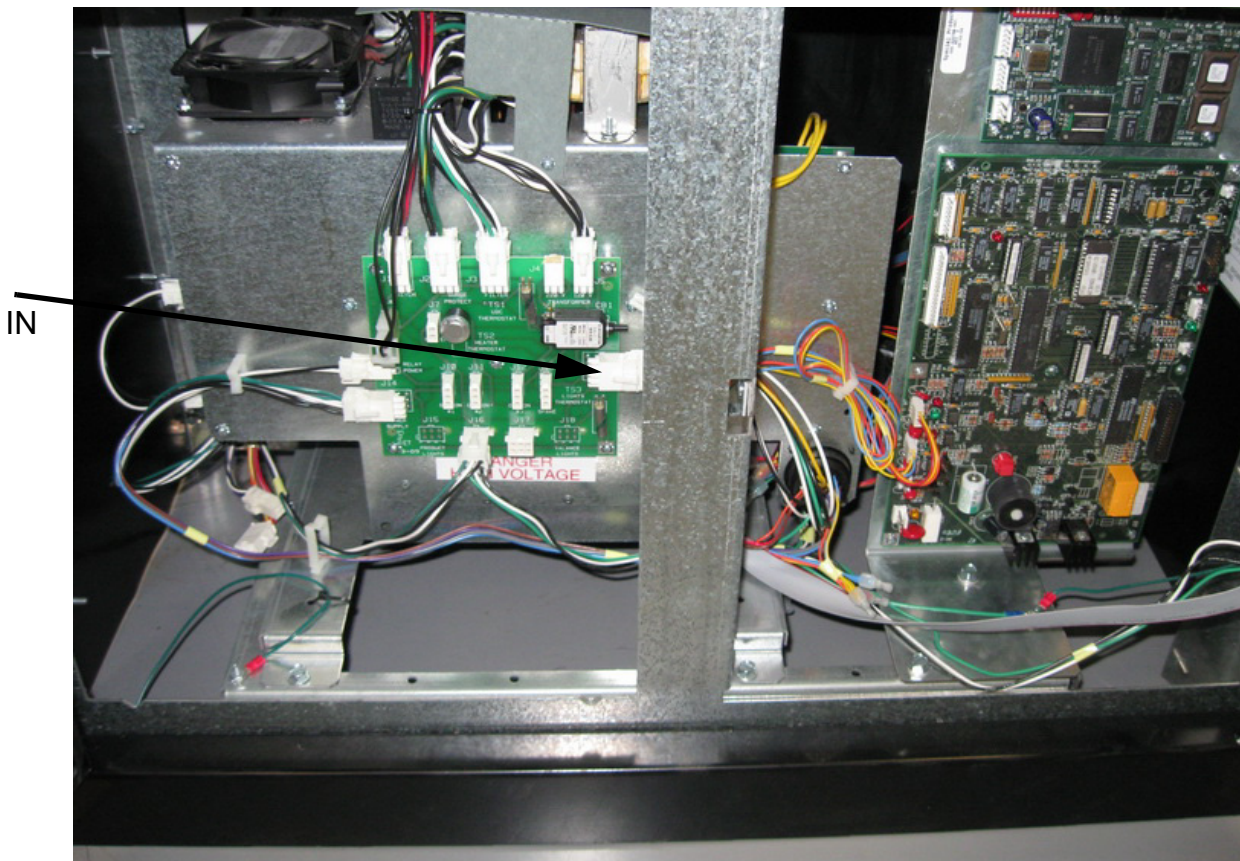


FIGURE 3



FIGURE 4

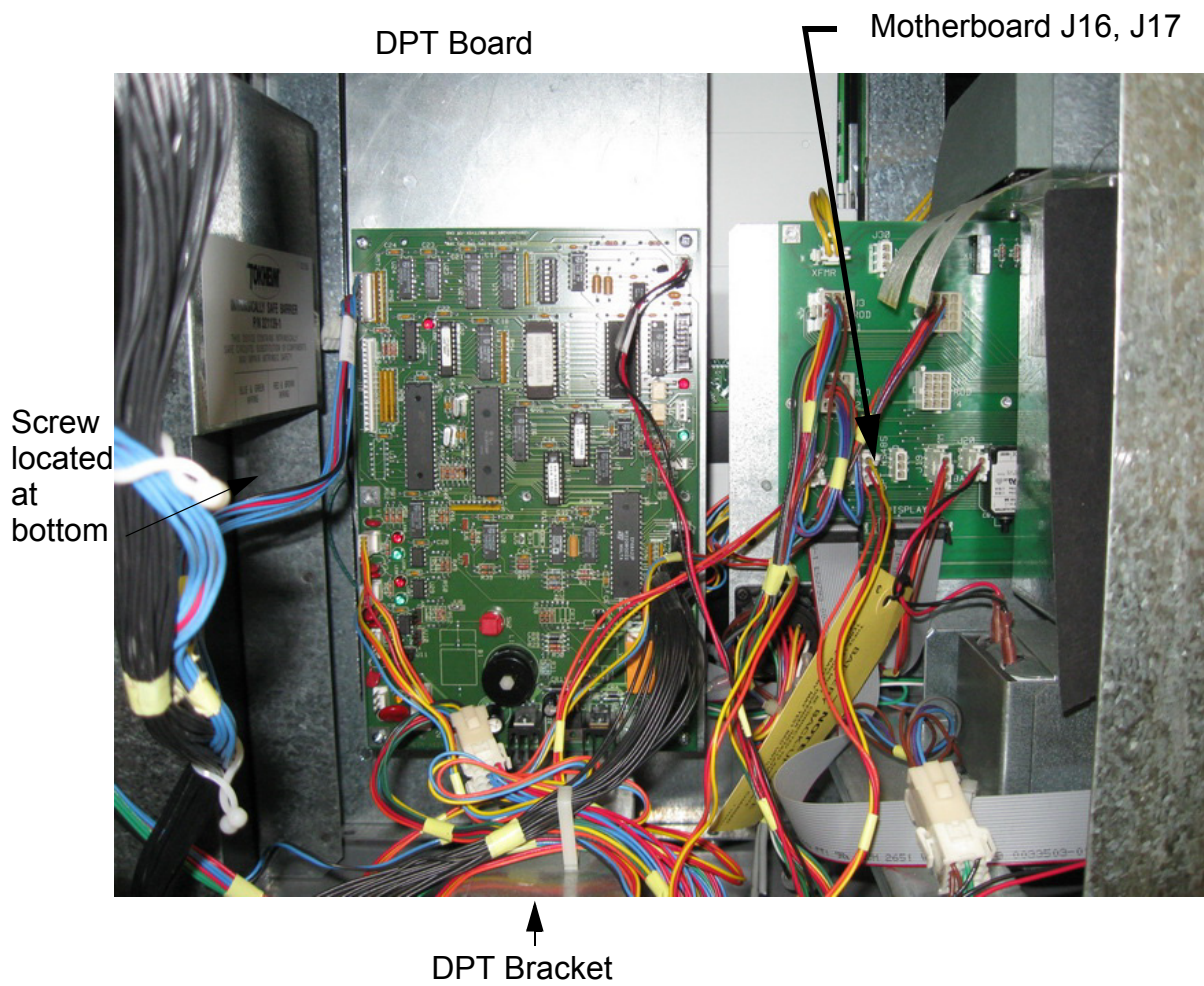
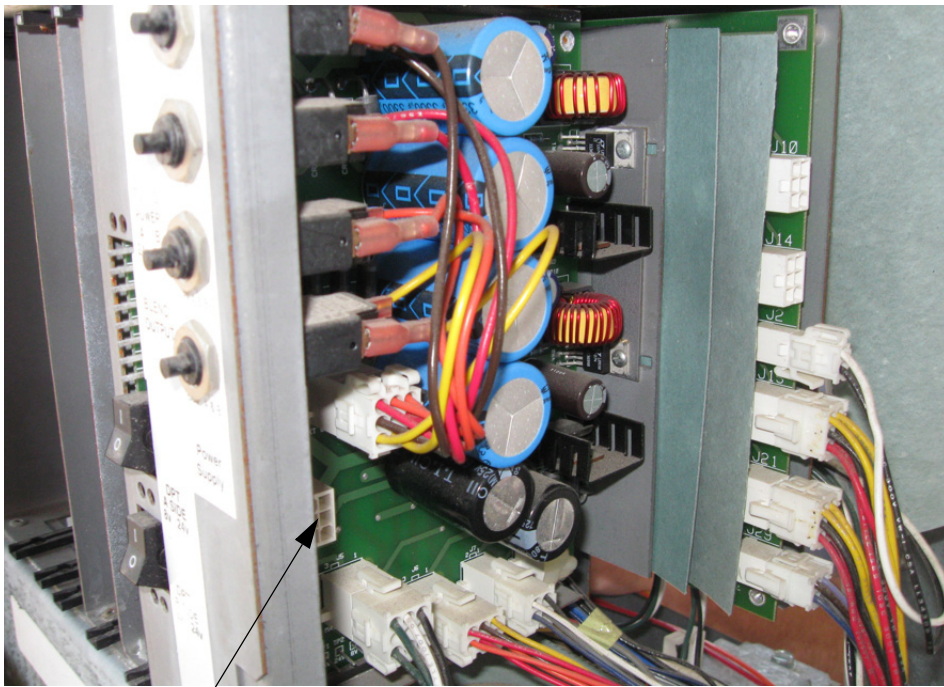


FIGURE 5



DC Power Supply J3

FIGURE 6

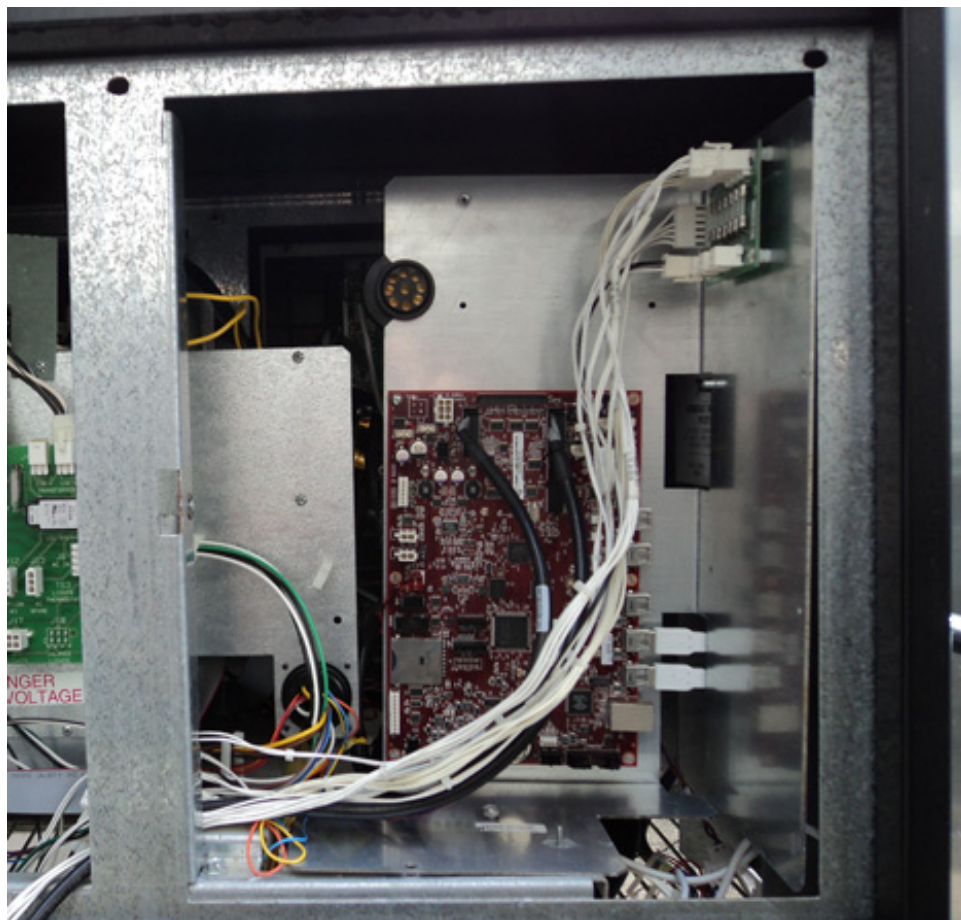
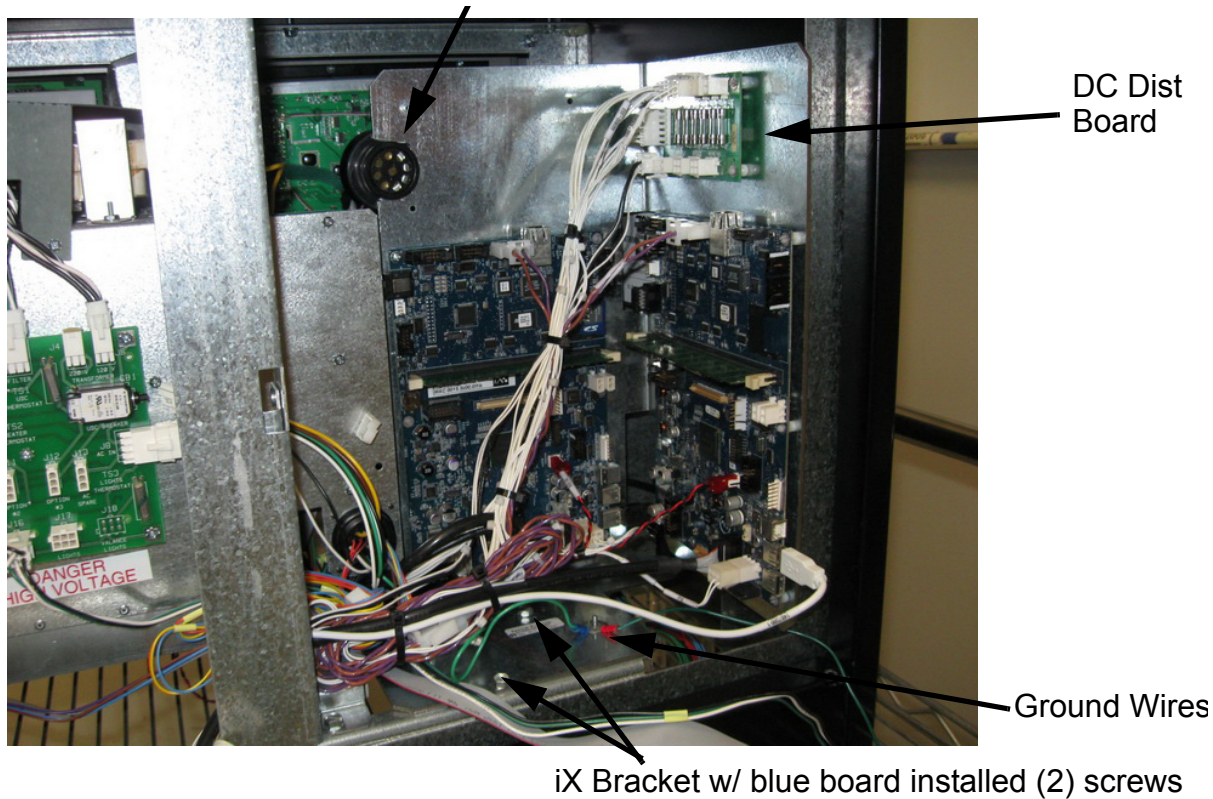
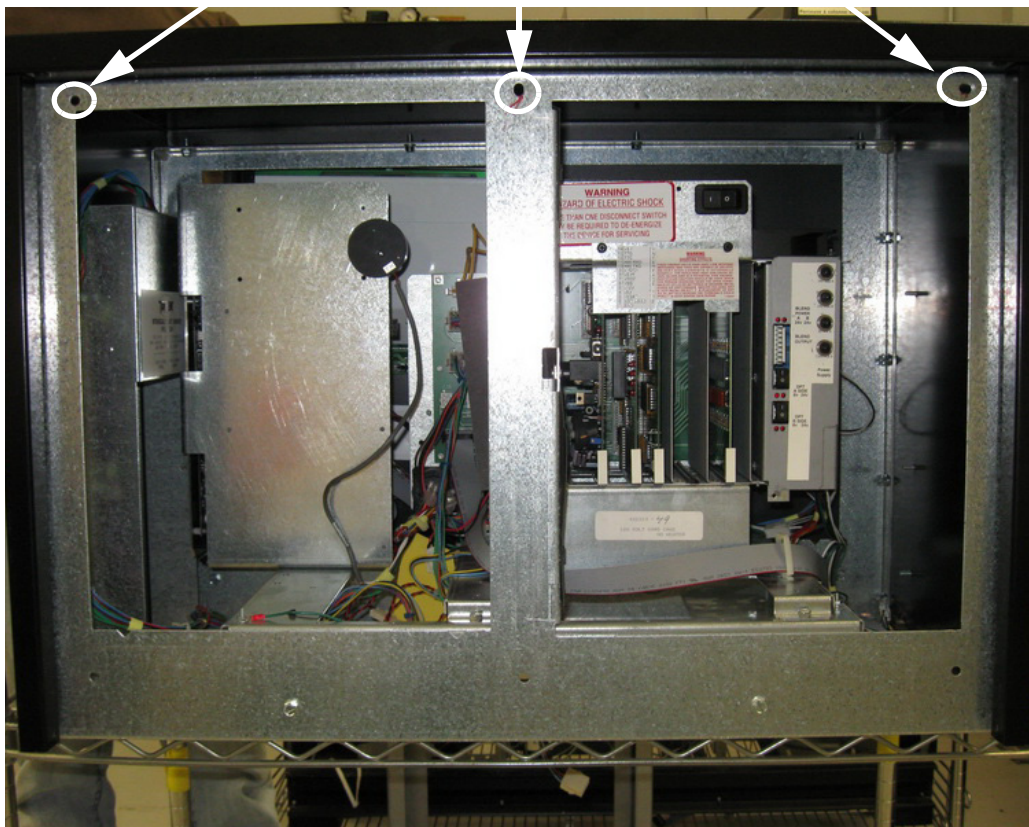


FIGURE 7

Use template and punch 3 Holes



New Extension Door Frame Installed

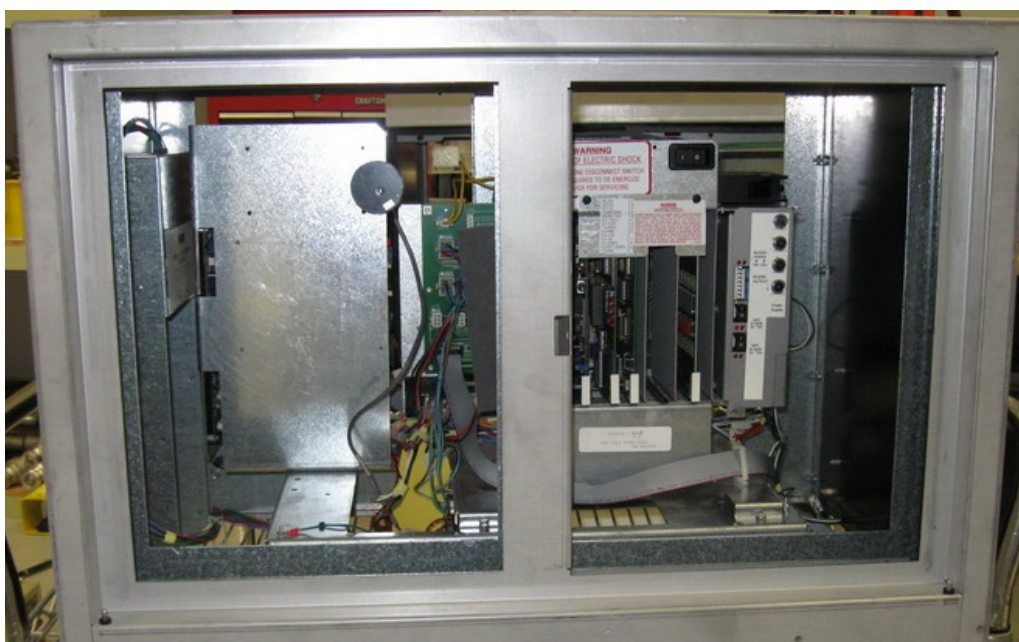


FIGURE 8

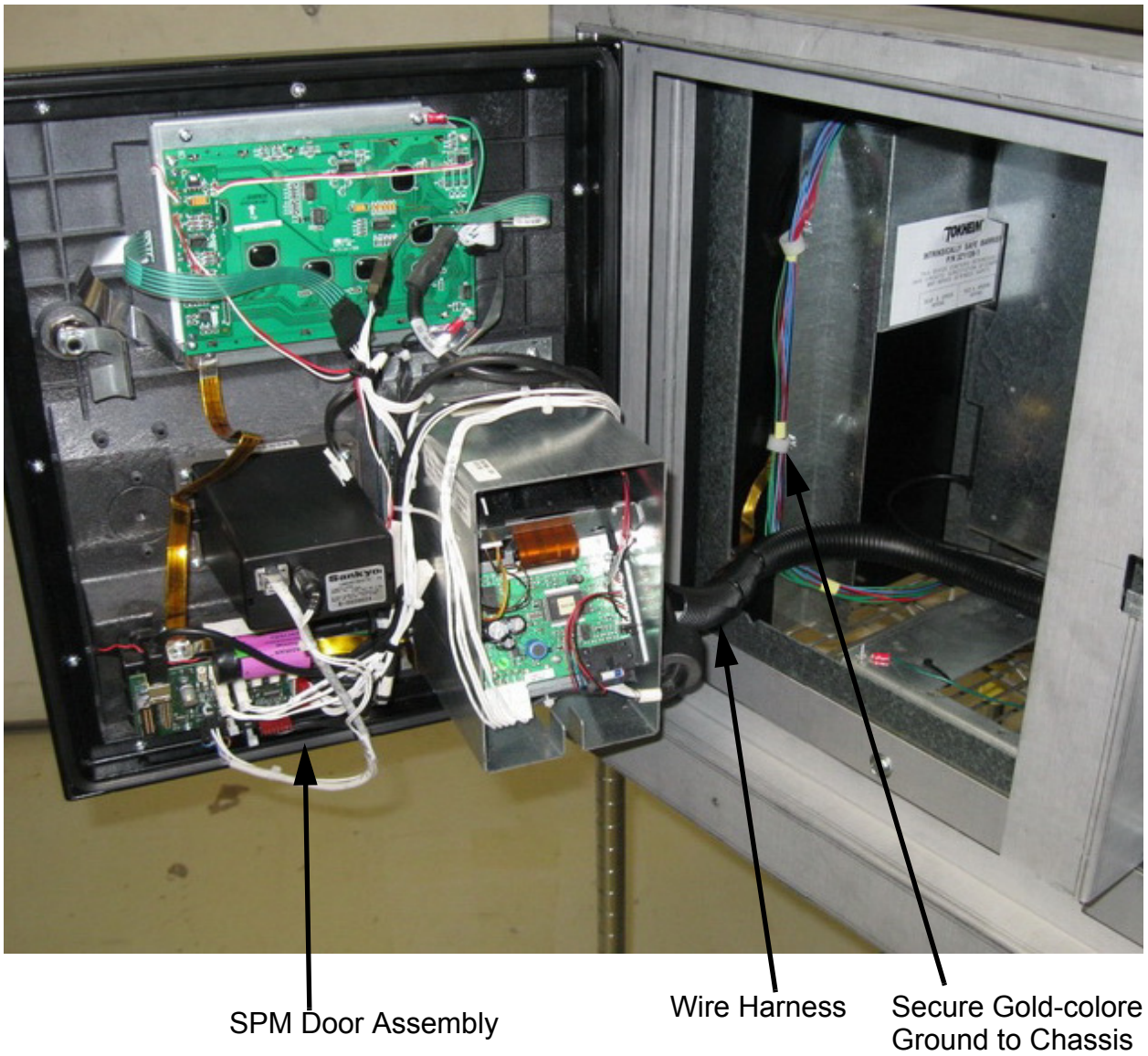


FIGURE 9

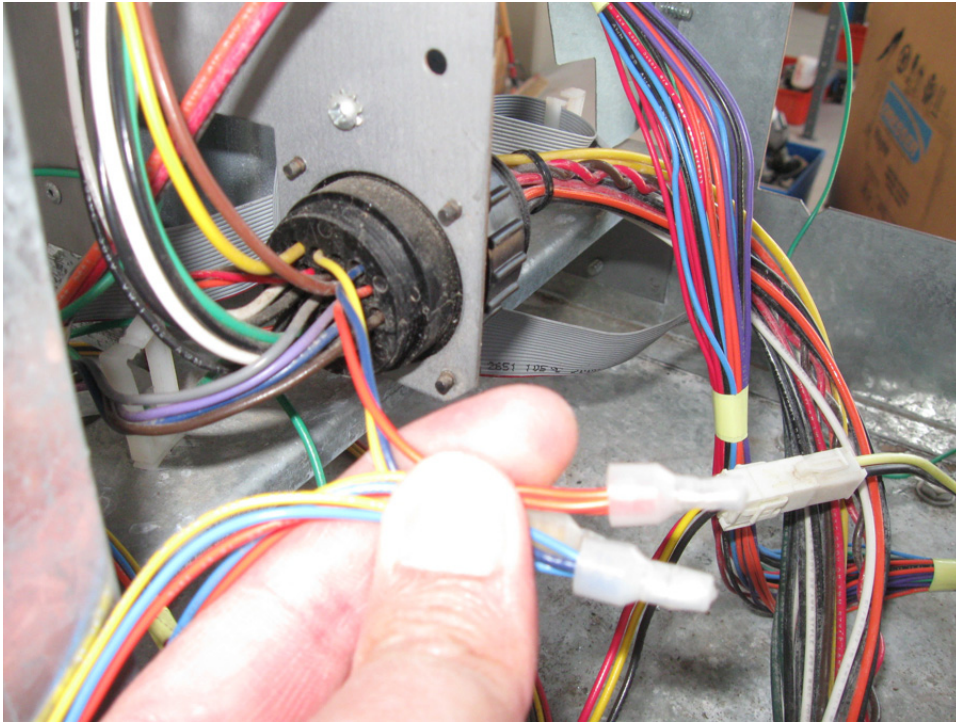


FIGURE 10

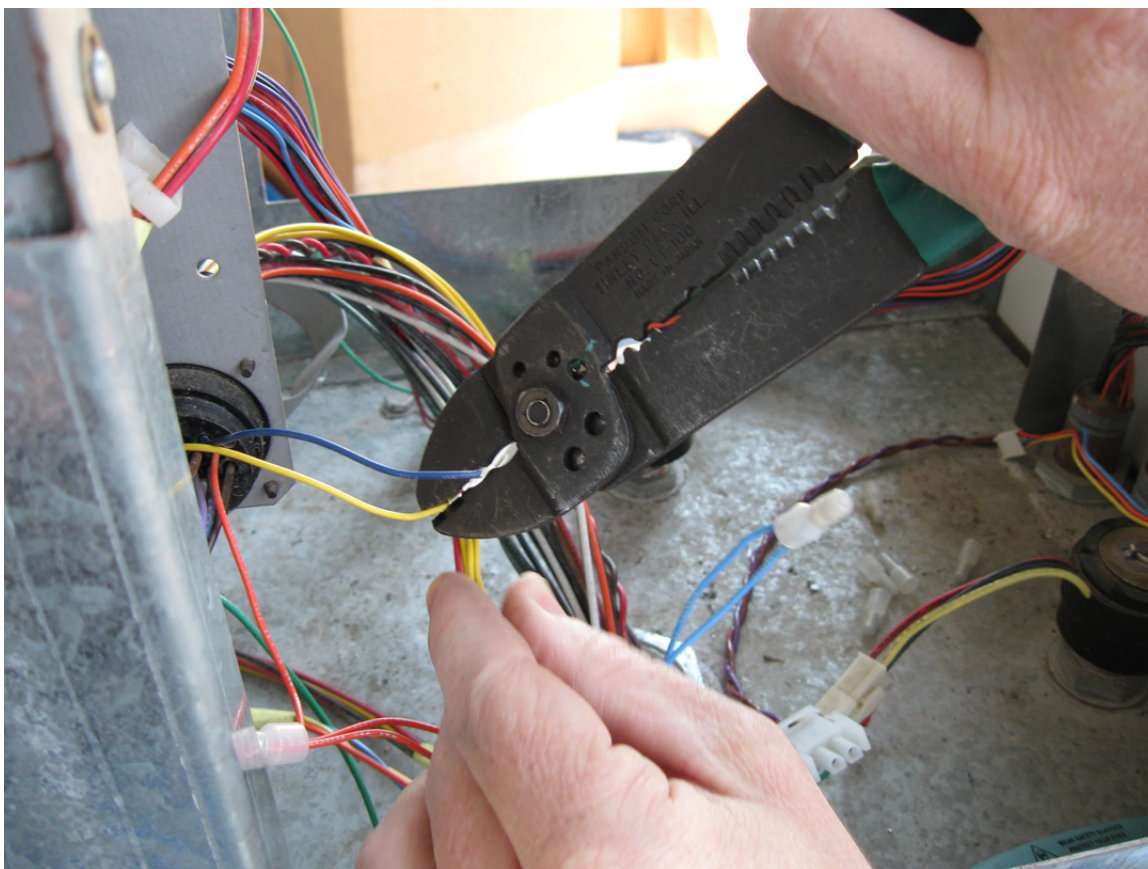


FIGURE 11

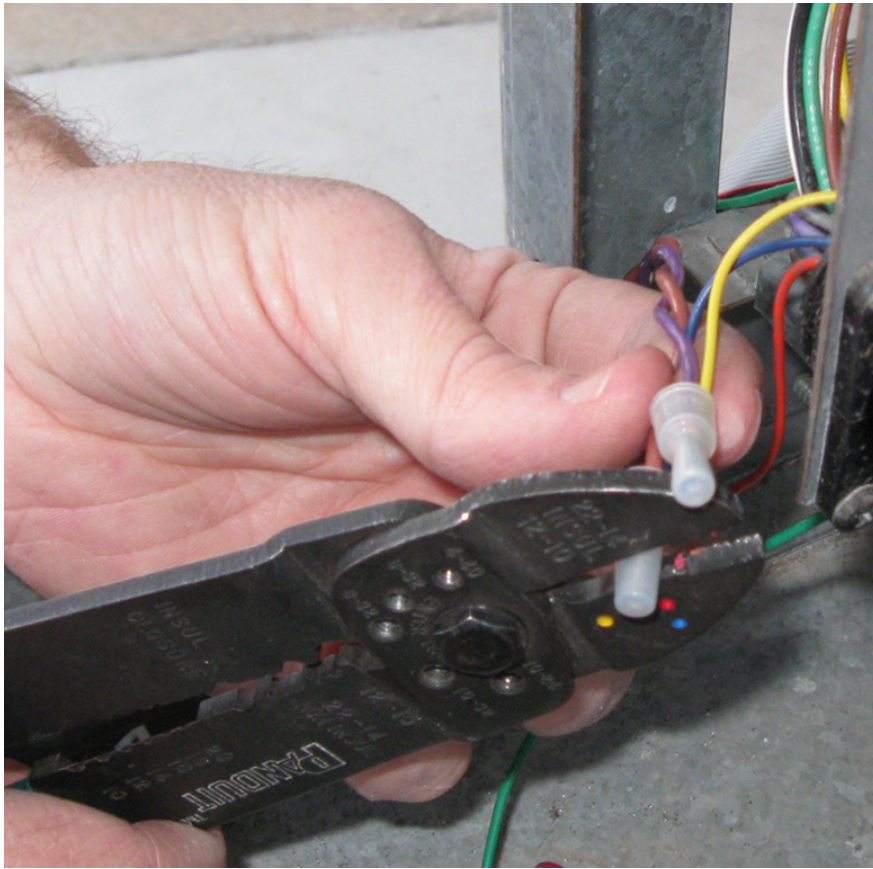


FIGURE 12

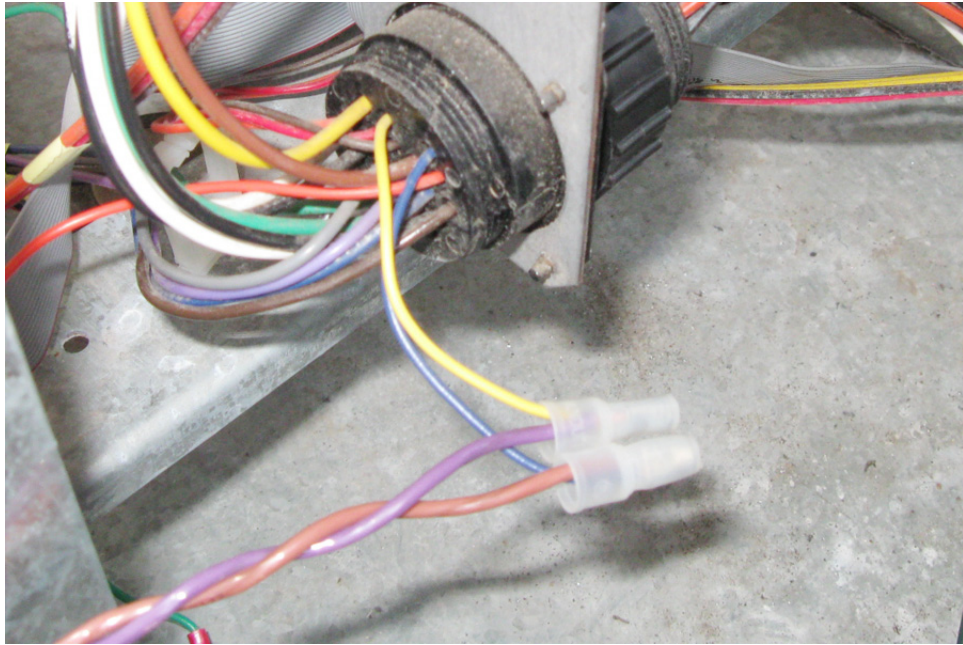
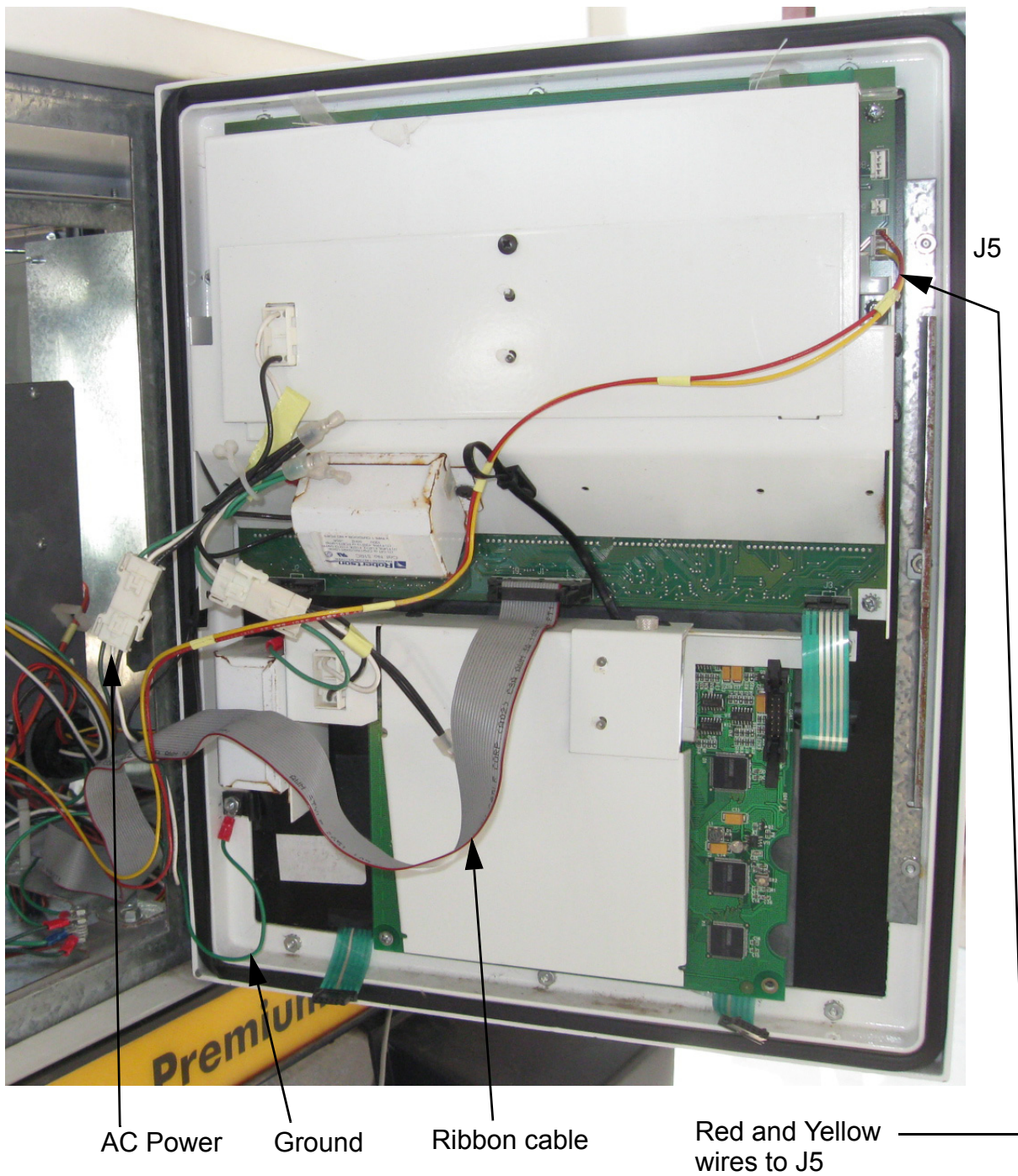


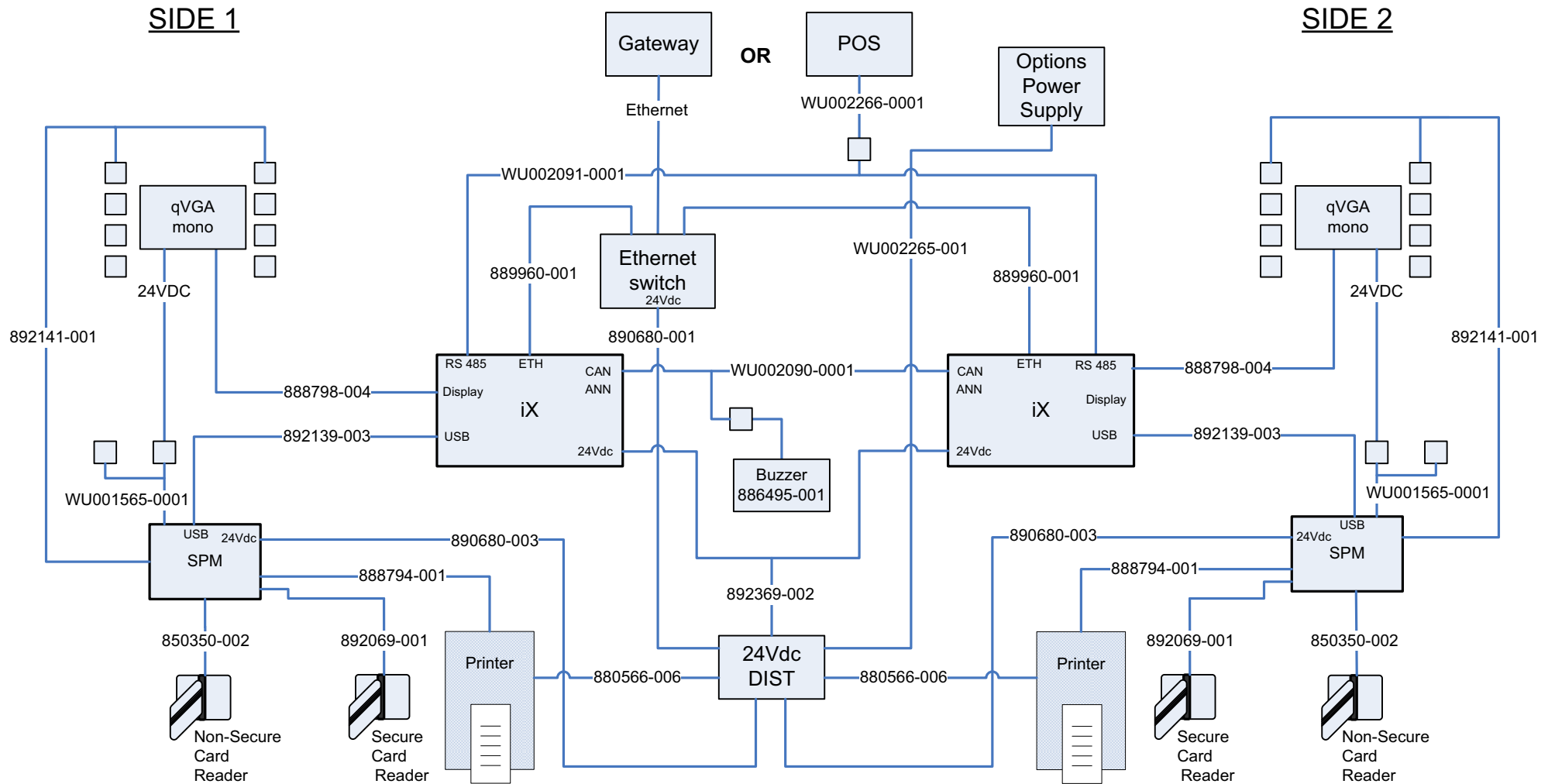
FIGURE 13



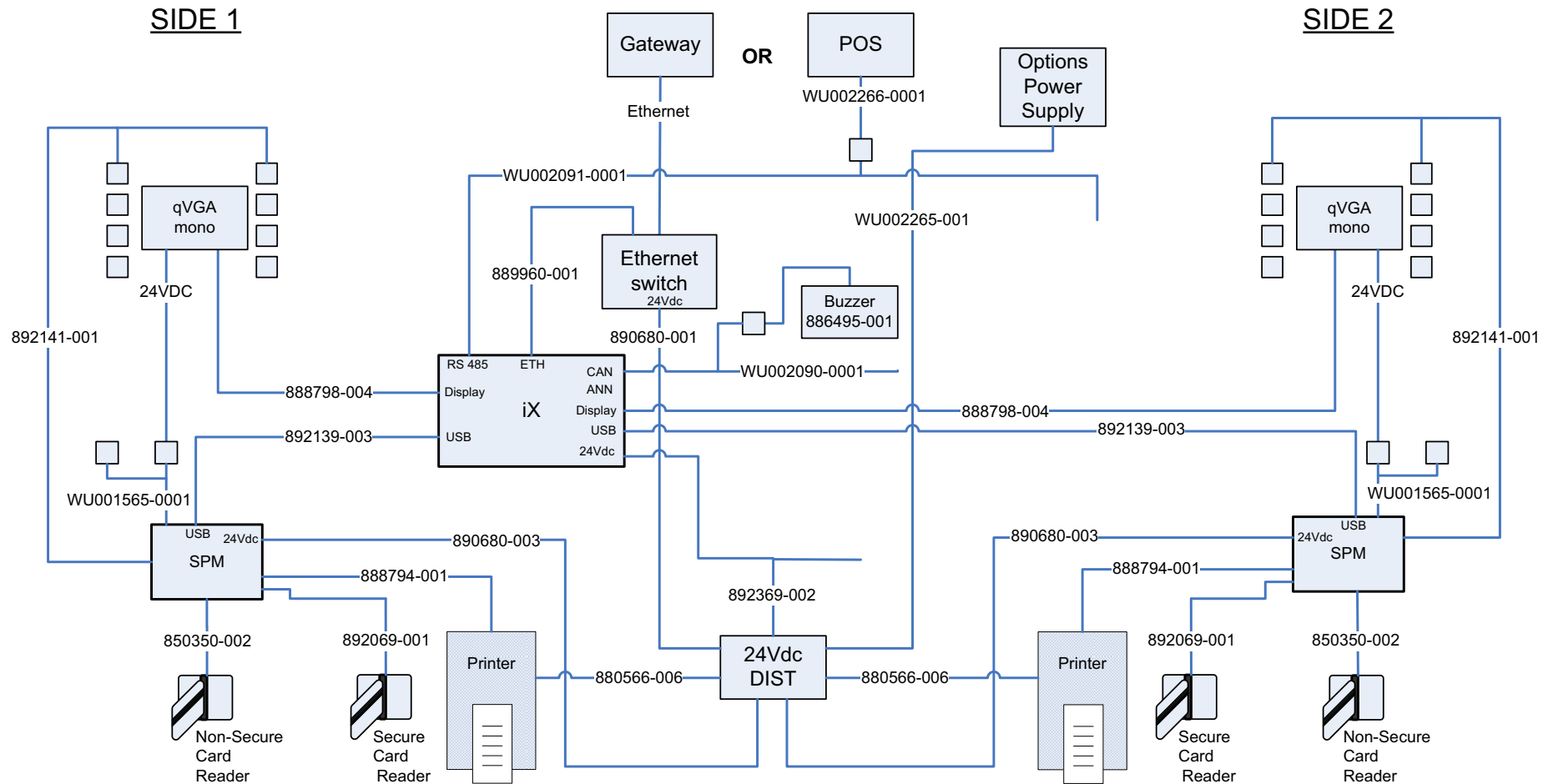
Only these cables will be reconnected to the Sales Display door assembly.

FIGURE 14

Tokheim Premier B & C SPM Retrofit Wiring Diagram



Tokheim Premier B & C SPM Retrofit Wiring Diagram for R2



INSTALLATION MANUAL

iX Pay Retrofit Kits for Premier C Dispensers

Written by S. G. Martin

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**Dresser Wayne, Dresser, Inc., is located at 3814 Jarrett Way, Austin TX 78728.
Wayne's general telephone number is (512)-388-8311.**

NOTE: "This equipment has been tested and found to comply with the limits for a Class A digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference when the equipment is operated in a commercial environment. This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instruction manual, may cause harmful interference to radio communications. Operation of this equipment in a residential area is likely to cause harmful interference in which case the user will be required to correct the interference at his own expense."

