

iX™ Pay Secure Payment

# INSTALLATION

SPM Retrofit Kits  
P/N WU001591-0001 &  
P/N WU001592-0001 For  
3/Vista Narrow & Wide  
Body Dispensers

June 2009

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 Module (SPM)  
for 3/Vista Dispensers

# Installation



# 1 INTRODUCTION

This manual provides instructions for installing the Security Payment Module (SPM) Kit, part number WU001591-0001 for 3V narrow body dispensers and WU001592-0001 for 3V wide body dispensers.

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

1/4" Hex socket/ratchet  
Phillips head screwdrivers  
Hole Punch  
Rivet tool

## 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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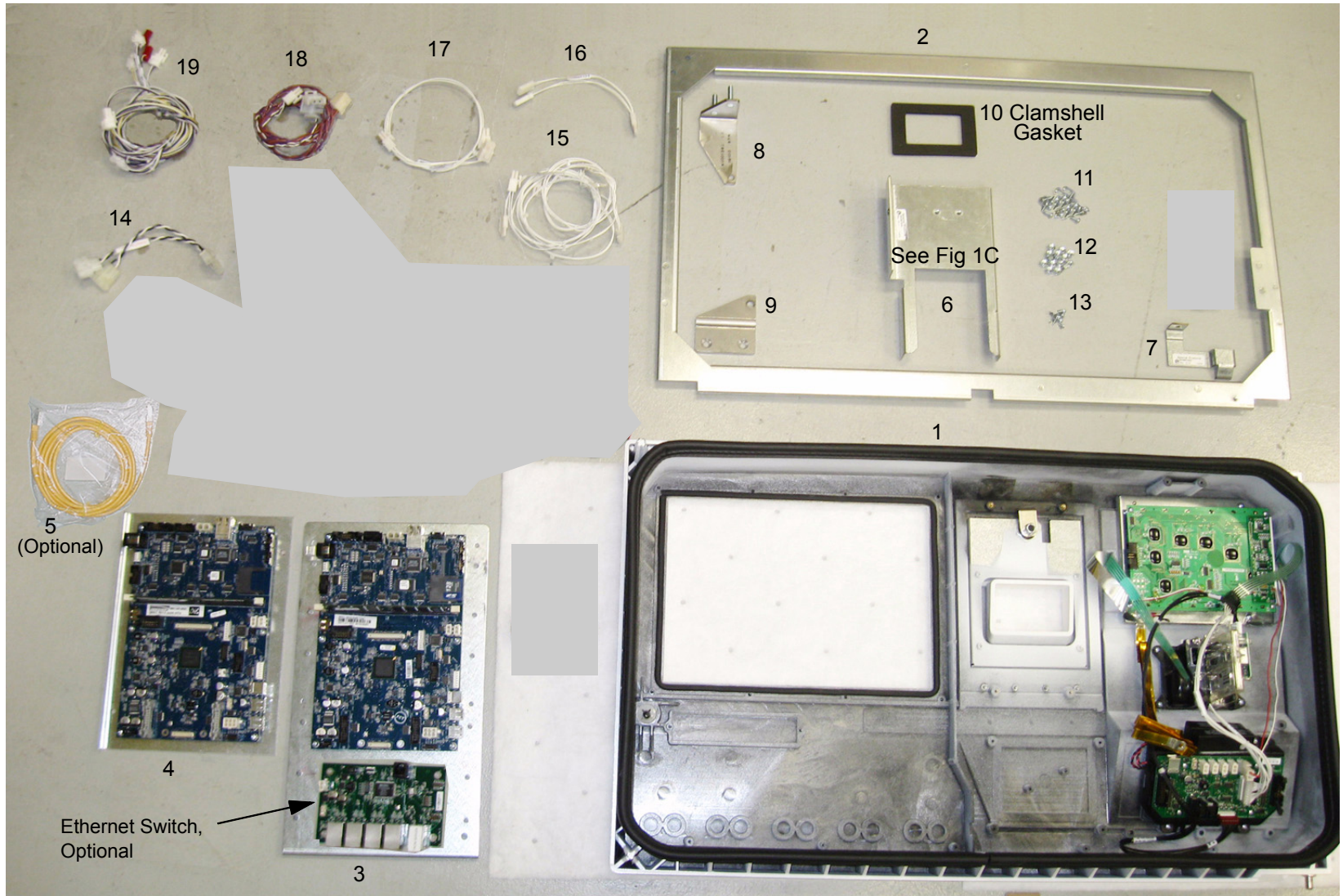


FIGURE 1A 3V NARROW BODY PARTS

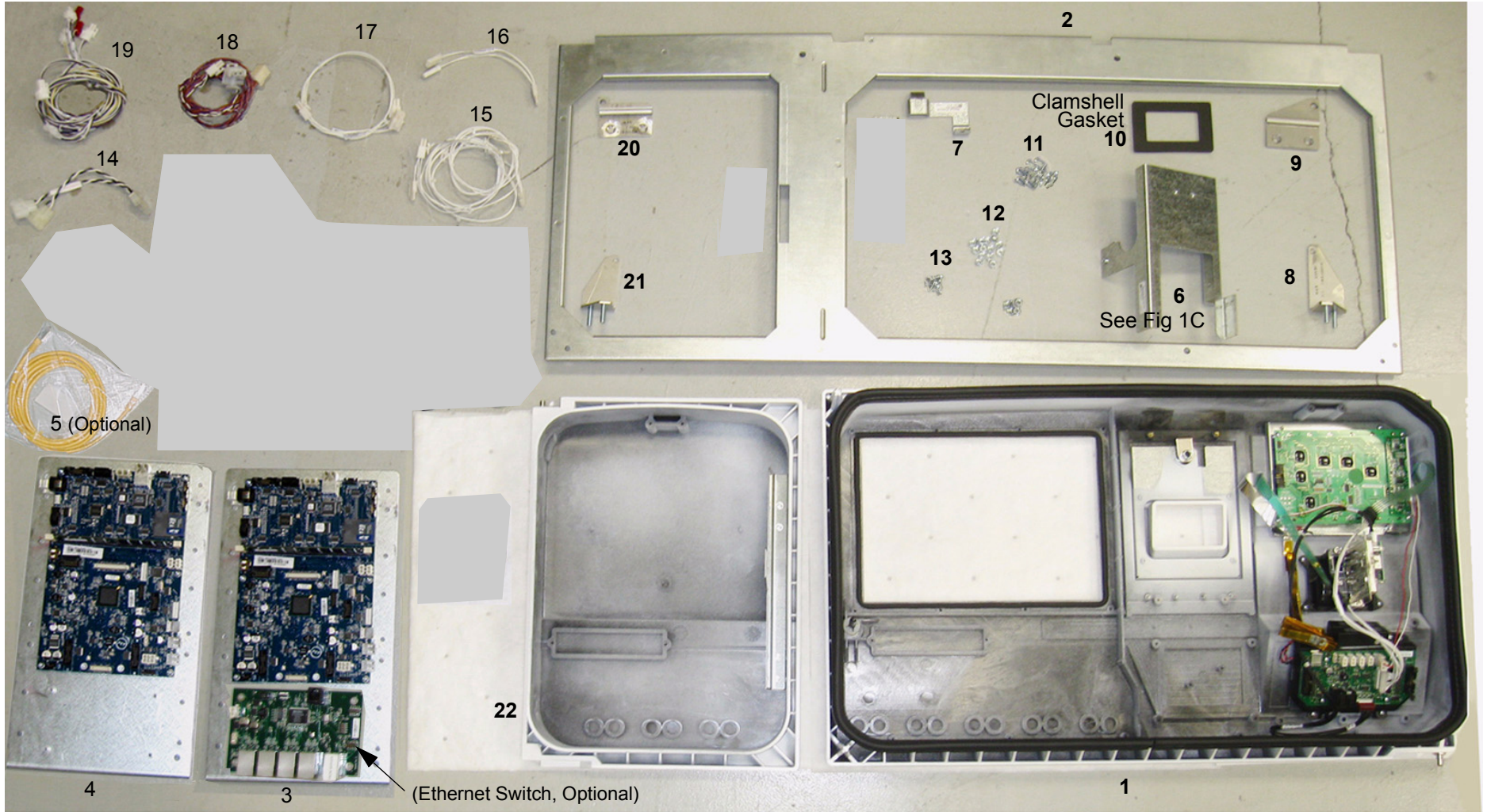


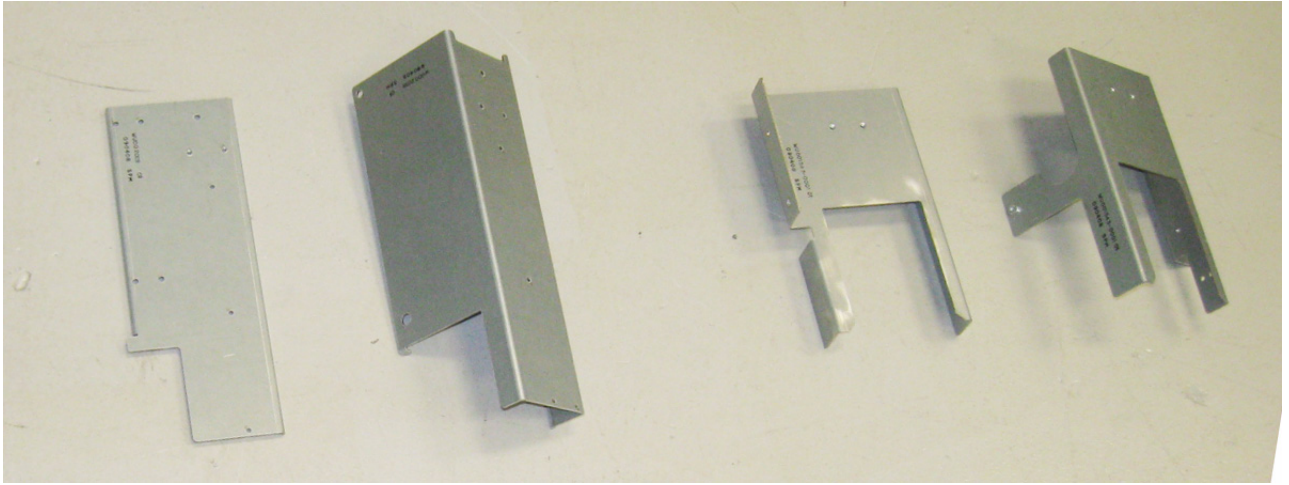
FIGURE 1B 3V WIDE BODY PARTS

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 Kit**

Part Number	Description	QTY Narrow Kit	QTY Wide Kit	Item No.
WU000544	Main Bezel	2	2	1
WU001352	Small Bezel Adapter Plate	2		2
WU001192	Large Bezel Adapter Plate	0	2	2
WU001773-0001	Large iX bracket	1	2	3
WU000451-0001	Small iX bracket	1		4
891410-001	Ethernet switch (Optional part of item 3)			
889960-001	Ethernet cable (Optional)	2	2	5 optional
WU001545	Printer Bracket for Clam Shell - Narrow	2		6 see Fig 1C
WU001543	Printer Bracket for Clam Shell - Wide	0	2	6 see Fig 1C
WU002028	Printer Bracket for Tear Bar - Narrow	2		6 see Fig 1C
WU002058	Printer Bracket for Tear Bar - Wide	0	2	6 see Fig 1C
WU001503	Bezel ramp	2	2	7
WU001360	Upper hinge - Left	2	2	8
WU001362	Lower hinge - Left	2	2	9
888687-001	Printer seal gasket, Clam Shell only	2	2	10
6019403	#8 Nuts	14	16	11
6005901	#6 Screws, 3/8	11	14	12
000-918935-	Screw, 8-32, 1/4 for printer copper spring	7	7	13
WU001564-0001	Y jumper cable	1	1	14
890680-001	Power cable, Ethernet (optional)	1	1	15
WU001565-0001	Y Jumper cable	1	1	16
892369-001	Y Jumper cable	1	1	17
WU001085	Data Link cable	1	1	18
890766-001	Annunicator cable	1	1	19
WU001366	Lower hinge -Right		1	20
WU001364	Upper hinge -Right		1	21
WU000972	Right bezel		2	22
000-918210-	1/4" Nut, for lower hinges	4	8	23
000-507667-	1/4-20 Screws, Flathead, for lower hinges	4	8	24
6005909	#8 Screw, 3/8 for iX and printer bracket	16	12	25
6019404	#10-32 Nut, for top hinges	4	8	26
882872-015	#4 Screw, 1/2 for printer bracket and latch	6	6	27
001-916486	Cable Ties	10	10	28
888352-001	Plastic Rivets, for totalizers	16	16	29
000-916760-	#8 Screw, 1/2 spares for sales display glass	16	16	30
000-940023-	Install Manual, 3V Narrow and Wide	1	1	31not shown





Narrow Body  
WU002028

Wide Body  
WU002058

TEAR BAR

Narrow Body  
WU001545

Wide Body  
WU001543

CLAMSHELL

**FIGURE 1C PRINTER BRACKETS (ITEM 6)**

## 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.**

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

### 2.1 Installation Instructions For 3/V Narrow Body

1. On both sides of the dispenser, open the bezels, disconnect the power and data cables from the bezels Figure 2, and remove bezels. Set bezels aside for reusing the displays.
2. Disconnect AC power (pump control and lights) in the electronics head.
3. A. Remove existing bezel hinges on the dispenser, see Figure 3. Discard hinges and save hardware. New hardware provided if needed.  
B. Disconnect grounds from the head frame and save hardware.  
C. If drip tray is present, remove from head chassis and discard.  
D. If totalizers are present, disconnect and discard the cable from the totalizers and J6 on the iGEM board. Remove the totalizer bracket and set aside for reusing the totalizers.
4. Disconnect and discard all cables/harnesses from Dual CAT board (887448-001), remove one Phillips screw and remove board from standoffs. Discard screw. Discard/save board as per site scope of work/customer requirements. See Figure 4.
5. A. Place Bezel Adapter Plate (WU001352) onto the head frame without securing it and mark down the center of the two holes in upper left corner of the Adapter plate. Figure 5.  
B. Remove Adapter plate and use a non sparking 1¼" hole punch tool to punch two holes at these locations.
6. Install Adapter plate using (5) #8 Nuts (6019403), see Figure 6.
7. Install (1) Bezel Ramp (WU001503) to Adapter plate using (1) #8 screw (6005909).
8. Install (1) Left Upper Hinge (WU001360) to Adapter plate using (2) 10-32 Nuts (6019404). See Figure 7.
9. Install (1) Left Lower Hinge (WU001362) to head chassis using (2) existing 1/4 hardware saved from the old hinges in step 3 or use (2) new screws (000-507667-) and nuts (000-918210-). NOTE: Leave hinge loose so bezel will install easier. See Figure 8.
10. A. Disconnect data and power cables from the back of the printer, Figures 9A and B. Discard data cable.  
B. Remove printer.

- C. For Clamshell only, remove and save the latch from the printer bracket. Figure 9C.
  - D. Remove and save the copper spring from the printer bracket. Discard two screws.
  - E. For Tear Bar, remove and save the slide rail from printer bracket. Save the (3) screws.
11. For Clamshell only, install (1) Printer Bracket using (2) #8 screws (6005909) and (1) #4 screw (882872-015). Figure 10. See Table 1 parts list (item 6) and Figure 1C layout.
  12. For Tear Bar only, install (1) Printer Bracket reusing the (3) screws saved above from the slide rail. See Table 1 parts list (item 6) and Figure 1C layout.
  13. For Clamshell only, install printer latch (887650-001), saved above, onto the new Printer Bracket using (2) #4 screws (882872-015).
  14. Install copper spring (883757-001), saved above, onto the new Printer Bracket using (2) #8 screws (000-918935-).
  15. For Tear Bar only, install slide rail, saved above, onto the new Printer Bracket using (3) screws (000-918935-).
  16. Install (1) Large iX Bracket (890997-001) inside the electronic head using (4) #8 screws (6005901). Figure 11 shows the bracket completely installed.
  17. Install (1) Small iX Bracket (WU000451-0001) onto the plastic standoffs and secure with (1) #8 screw (6005909). Figure 12 shows the bracket completely installed.
  18. For Clamshell printer only, remove the existing printer gasket from the printer and clean off all gasket residue.
  19. For Clamshell printer only, install (1) Printer Gasket (888687-001).
  20. A. Reinstall printer.  
  
B. Reconnect the existing power cable to back of printer.
  21. Lay the new Main Bezel (WU000544) face down on a flat surface, Figure 13. Use protective pads, etc., to ensure that the front of the bezel does not get scratched.
  22. A. On the old bezel, remove the Sales Display (including glass) by removing the (8) screws Figure 2A. On the new bezel, make sure display gasket is pushed down/sealed properly, then install the glass and display onto the new bezel reusing the hardware. New #8 screws (916760) provided as needed. See Figure 14.  
  
B. Connect the PTS (grade select) switch cable to the Sales Display J3 and connect the display data cable to J1.  
  
C. Connect Backlight cable to the backlight connector from the Sales Display and attach ground wire.

23. Install Main Bezel onto dispenser, upper hinge first then lower hinge, and tighten the nuts on the lower hinge, see Figure 11.

From the bezel harness, connect the cables as explained in the following steps:

24. Connect Printer Data Cable (888794-xxx) to the printer (route cable through the grommet in the chassis, then connect to printer).
25. Connect QVGA Cable (888798-xxx) to the iX board J20 (Port 1).
26. Connect USB Cable (892139-xxx) to the “USB 1” connector on the iX Board.
27. A. Connect DC power cable (890680-003) coming from the bezel to the Y-jumper Cable (WU001565-0001).  
  
B. Connect the Y-jumper cable to either of the spare 2-pin connectors on the 24VDC Power Dist. Board.  
Note: The other end of the connector on the Y-jumper cable is for the opposite side SPM when installed.
28. Secure the SPM ground strap and (the green wire ground from the ISB if side1) to the head frame reusing the hardware save previously.
29. Disconnect/discard the Bit Bus cable from the iGEM board and connect the Display Cable (886486-xxx) coming from the (bezel harness/sales display J1) to iGEM Board (J15 Bit Bus A for side 1, or J16 Bit Bus B for side 2).
30. A. From the bezel harness, connect the Backlight cable (WU001117-0001) to the Y-jumper cable (WU001564-0001), then connect the Y-jumper to existing backlight “black and white” cables coming out of the dispenser’s firewall.
31. If installing the second side parts, connect DC power cable (890680-003) coming from the bezel to the Y-jumper Cable (WU001565-0001) previously installed at DC Dist board for the opposite side.
32. Connect Y-jumper cable (892369-002) to either of the spare 2-pin connectors on the 24Vdc Power Dist. Board and to both iX boards (6-pin Power).
33. Connect DL/RS-485 cable (WU001085) to the iGEM board J25 and to both iX boards (J19 Port #3), then connect to the 9-pin connector at the vapor barrier potted fitting.
34. Connect Annunciator cable (890766-001) to both iX boards and to the iGEM board 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.  
Connect the other end with the two 2-pin connectors to the iX board for the opposite side.

35. Optional Totalizers:
  - A. If totalizers were existing, remove the totalizers from the bracket saved in Step 3 and install the totalizers onto the bezel totalizer bracket. Use new Plastic Rivets (888352-001) as needed. Discard old bracket and screws.
  - B. Connect the totalizer cable 887695-024 supplied with the bezel to the totalizers and to J6 on the iGEM board.
36. Optional Ethernet equipment:
  - A. Connect the underground Ethernet cable to the Ethernet Switch J5.
  - B. Connect (1) Ethernet Cable (889960-001) to the Ethernet Switch J1 and to the iX board Ethernet connector.
  - C. Connect (1) Ethernet Cable (889960-001) to the Ethernet Switch J2 and to the opposite side iX board Ethernet connector.
  - D. Connect (1) Power Cable (890680-001) to the Power Dist. Board and to the Ethernet Board.
37. Repeat instruction Steps 5-15 and 18-31 for the opposite side of the dispenser.
38. Bundle all cables where possible and secure using Cable Ties (000-918486).
39. Ensure all cables are inside the head and bezel.
40. Reconnect AC power (pump control and lights) in the electronics head.
41. Close and lock bezel.
42. Turn power on to the dispenser.
43. Verify SPM and dispenser operation.

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

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

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

#### 3.1 **Installation Instructions For 3/V Wide Body**

Note: The same figure photos of the narrow body are used in the following instructions because of the similarities in the installation.

1. On both sides of the dispenser, open the bezels, disconnect the power and data cables from the bezels Figure 2, and remove bezels. Set bezels aside for reusing the displays.
2. Disconnect AC power (pump control and lights) in the electronics head.
3.
  - A. Remove existing bezel hinges on the dispenser, see Figure 3. Discard hinges and save hardware. New hardware provided if needed.
  - B. Disconnect grounds from the head frame and save hardware.
  - C. If drip tray is present, remove from head chassis and discard.
  - D. If totalizers are present, disconnect and discard the cable from the totalizers and J6 on the iGEM board. Remove the totalizer bracket and set aside for reusing the totalizers.
4. Disconnect and discard all cables/harnesses from Dual CAT board (887448-001), remove one Phillips screw and remove board from standoffs. Discard screw. Discard/ save board as per site scope of work/customer requirements. See Figure 4.
5. Install Adapter plate using (6) # 8 Nuts (6019403), see Figure 6.
6. Install (1) Bezel Ramp (WU001503) to Adapter plate using (1) #8 screw (6005909).
7. Install (1) Left Upper Hinge (WU001360) to Adapter plate using (2) 10-32 Nuts (6019404). See Figures 7.
8. Install (1) Left Lower Hinge (WU001362) to head chassis using (2) existing 1/4 hardware saved from the old hinges in step 3 or use (2) new screws (000-507667-) and nuts (000-918210-). NOTE: Leave hinge loose so bezel will install easier. See Figure 8.
9. Install (1) Right Upper Hinge (WU001364) to Adapter plate using (2) 10-32 Nuts (6019404).

10. Install Right Lower Hinge (WU001366) to head chassis using (2) existing 1/4 hardware saved from the old hinges in step 3 or use (2) new screws (000-507667-) and nuts (000-918210-). NOTE: Leave hinge loose so right bezel will install easier.
11. A. Disconnect data and power cables from the back of the printer, Figures 9A and B. Discard data cable.  
B. Remove printer.  
C. For Clamshell only, remove and save the latch from the printer bracket. Figure 9C.  
D. Remove and save the copper spring from the printer bracket. Discard two screws.  
E. For Tear Bar, remove and save the slide rail from printer bracket. Save the (3) screws.
12. For Clamshell only, install (1) Printer Bracket using (1) #8 screws (6005909) and (1) #4 screw (882872-015). Figure 10. See Table 1 parts list (item 6) and Figure 1C layout.
13. For Tear Bar only, install (1) Printer Bracket reusing (2) of the screws saved from the slide rail and (1) #8 screw (6005909). See Table 1 parts list (item 6) and Figure 1C layout
14. For Clamshell only, install printer latch (887650-001), saved above, onto the new Printer Bracket using (2) #4 screws (882872-015).
15. Install copper spring (883757-001), saved above, onto the new Printer Bracket using (2) #8 screws (000-918935-).
16. For Tear Bar only, install slide rail, saved above, onto the new Printer Bracket using (3) screws (000-918935-).
17. Install (2) Large iX Brackets (890997-001) inside the electronic head using (4 per bracket) #8 screws (6005901). Figure 11 shows the bracket completely installed. The second bracket will mount the same on the opposite side column.
18. For Clamshell printer only, remove the existing printer gasket from the printer and clean off all gasket residue.
19. For Clamshell printer only, install (1) Printer Gasket (888687-001).
20. A. Reinstall printer.  
B. Reconnect the existing power cable to back of printer.
21. Lay the new Main Bezel (WU000544) face down on a flat surface, Figure 13. Use protective pads, etc., to ensure that the front of the bezel does not get scratched.

22. A. On the old bezel, remove the Sales Display (including glass) by removing the (8) screws Figure 2A. On the new bezel, make sure display gasket is pushed down/sealed properly, then install the glass and display onto the new bezel reusing the hardware. New #8 screws (916760) provided as needed. See Figure 14.
  - B. Connect the PTS (grade select) switch cable to the Sales Display J3 and connect the display data cable to J1.
  - C. Connect Backlight cable to the backlight connector from the Sales Display and attach ground wire.
23. Install Main Bezel onto dispenser, upper hinge first then lower hinge, and tighten the nuts on the lower hinge. See Figure 11.
24. Install Right Bezel (WU000972) onto dispenser, upper hinge first then lower hinge, and tighten the nuts on the lower hinge.

From the Main Bezel harness, connect the cables as explained in the following steps:

25. Connect Printer Data Cable (888794-xxx) to the printer (route cable through the grommet in the chassis, then connect to printer).
26. Connect QVGA Cable (888798-xxx) to the iX board J20 (Port 1).
27. Connect USB Cable (892139-xxx) to the “USB 1” connector on the iX Board.
28. A. Connect DC power cable (890680-003) coming from the bezel to the Y-jumper Cable (WU001565-0001).
  - B. Connect the Y-jumper cable to either of the spare 2-pin connectors on the 24VDC Power Dist. Board.  
Note: The other end of the connector on the Y-jumper cable is for the opposite side SPM when installed.
29. Secure the SPM ground strap and (the green wire ground from the ISB if side1) to the head frame reusing the hardware save previously.
30. Disconnect/discard the Bit Bus cable from the iGEM board and connect the Display Cable (886486-xxx) coming from the (bezel harness/sales display J1) to iGEM Board (J15 Bit Bus A for side 1, or J16 Bit Bus B for side 2).
31. A. From the bezel harness, connect the Backlight cable (WU001117-0001) to the Y-jumper cable (WU001564-0001), then connect the Y-jumper to existing backlight “black and white” cables coming out of the dispenser’s firewall.
32. If installing the second side parts, connect DC power cable (890680-003) coming from the bezel to the Y-jumper Cable (WU001565-0001) previously installed at DC Dist board for the opposite side.



33. Connect Y-jumper cable (892369-002) to either of the spare 2-pin connectors on the 24Vdc Power Dist. Board and to both iX boards (6-pin Power).
34. Connect DL/RS-485 cable (WU001085) to the iGEM board J25 and to both iX boards (J19 Port #3), then connect to the 9-pin connector at the vapor barrier potted fitting.
35. Connect Annunciator cable (890766-001) to both iX boards and to the iGEM board 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.  
Connect the other end with the two 2-pin connectors to the iX board for the opposite side.
36. Optional Totalizers:
  - A. If totalizers were existing, remove the totalizers from the bracket saved in Step 3 and install the totalizers onto the bezel totalizer bracket. Use new Plastic Rivets (888352-001) as needed. Discard old bracket and screws.
  - B. Connect the totalizer cable 887695-024 supplied with the bezel to the totalizers and to J6 on the iGEM board.
37. Optional Ethernet equipment:
  - A. Connect the underground Ethernet cable to the Ethernet Switch J5.
  - B. Connect (1) Ethernet Cable (889960-001) to the Ethernet Switch J1 and to the iX board Ethernet connector.
  - C. Connect (1) Ethernet Cable (889960-001) to the Ethernet Switch J2 and to the opposite side iX board Ethernet connector.
  - D. Connect (1) Power Cable (890680-001) to the Power Dist. Board and to the Ethernet Board.
38. Repeat instruction Steps 5-16 and 18-32 for the opposite side of the dispenser.
39. Bundle and tie wrap all cables where possible.
40. Ensure all cables are inside the head and bezel.
41. Reconnect AC power (pump control and lights) in the electronics head.
42. Close and lock bezel.
43. Turn power on to the dispenser.
44. Verify SPM and dispenser operation.

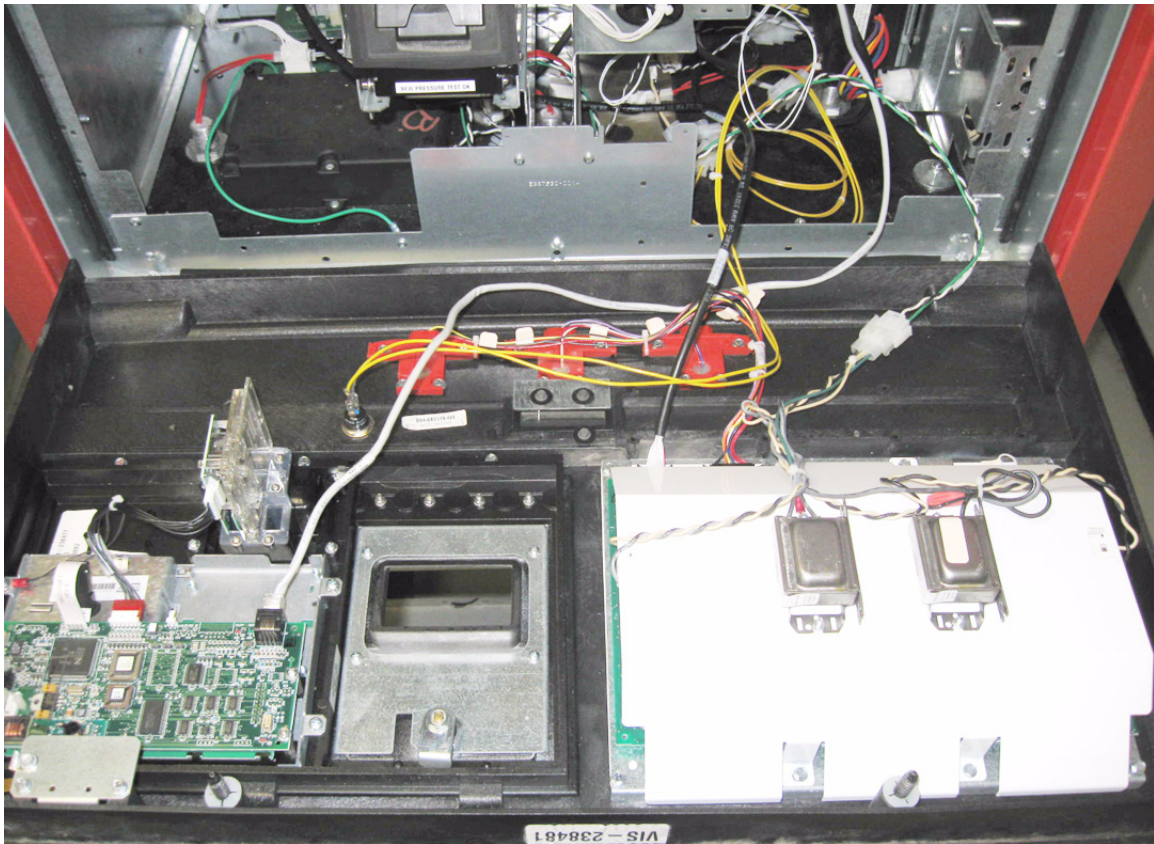


FIGURE 2

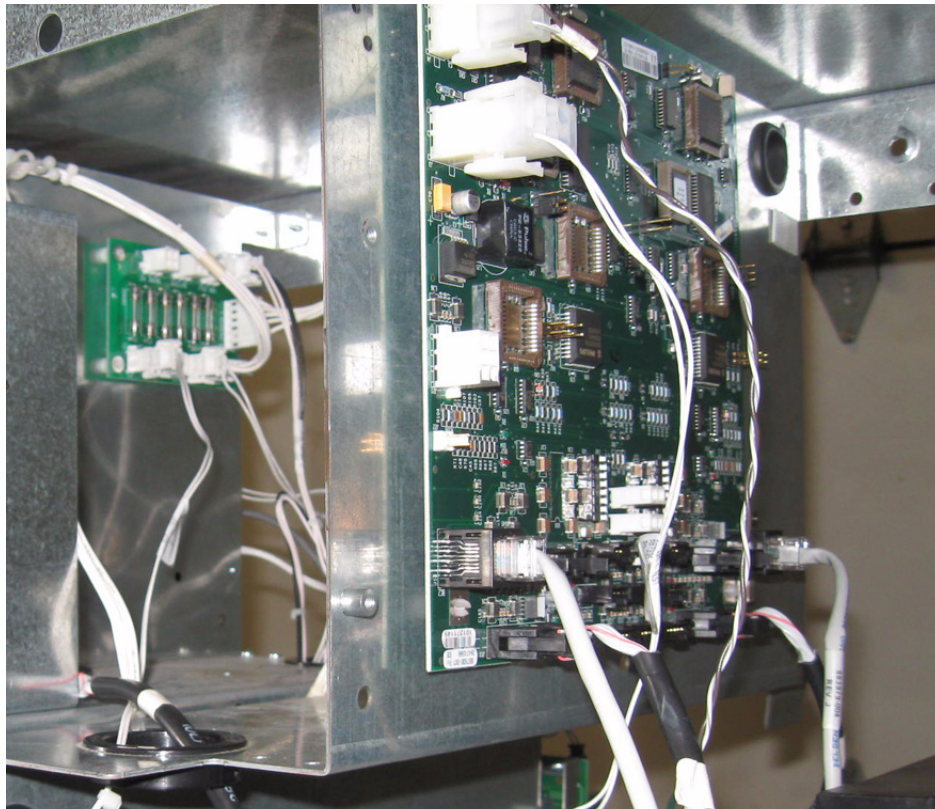


FIGURE 3

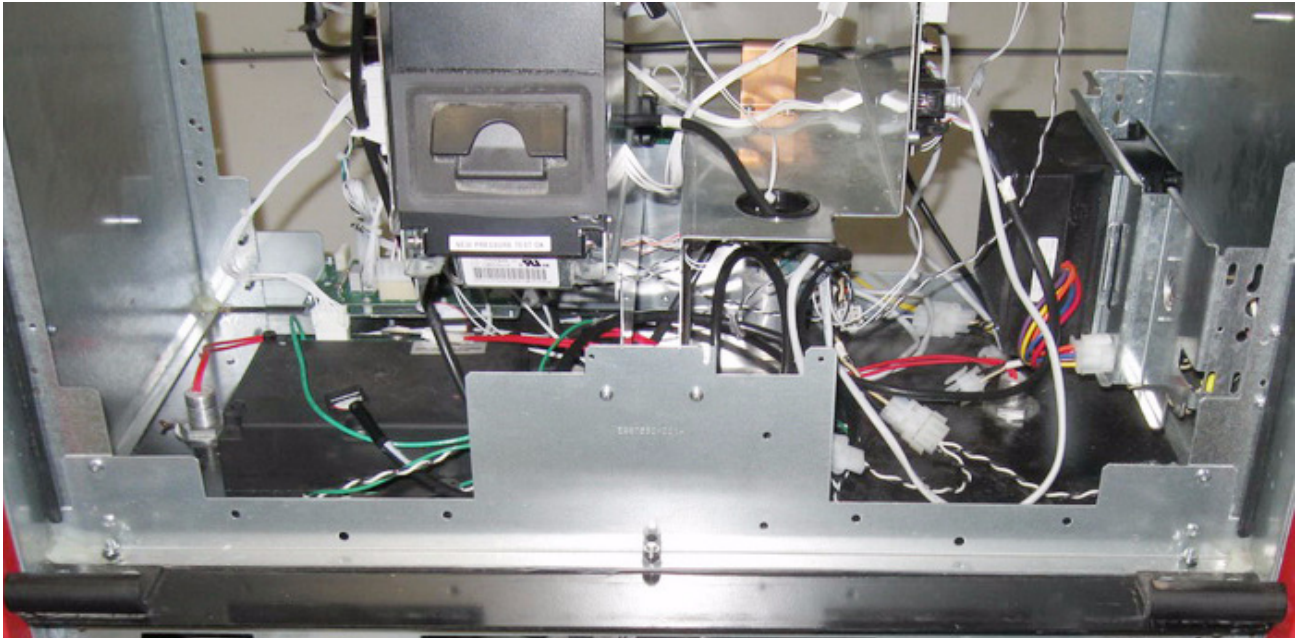
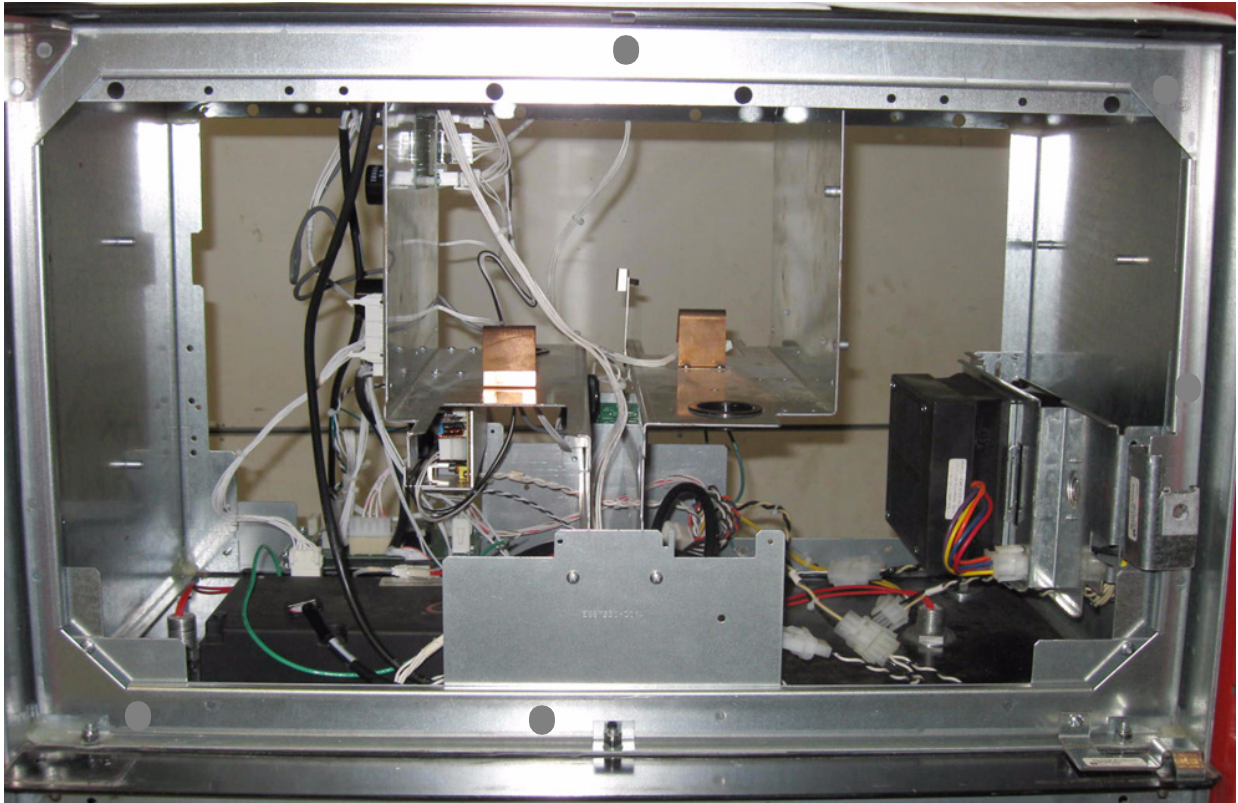


FIGURE 4



FIGURE 5



- Notes the locations for (5) #8 Nuts to Secure Adapter Plate on Narrow Model.  
Wide Model (7) #8 Nuts in similar locations.

FIGURE 6

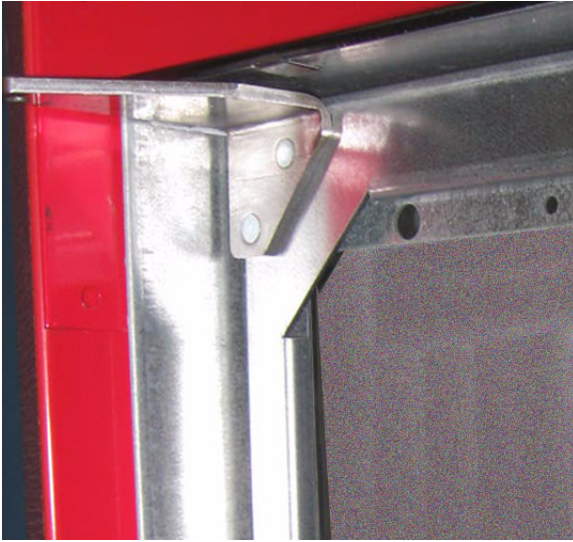


FIGURE 7



FIGURE 8

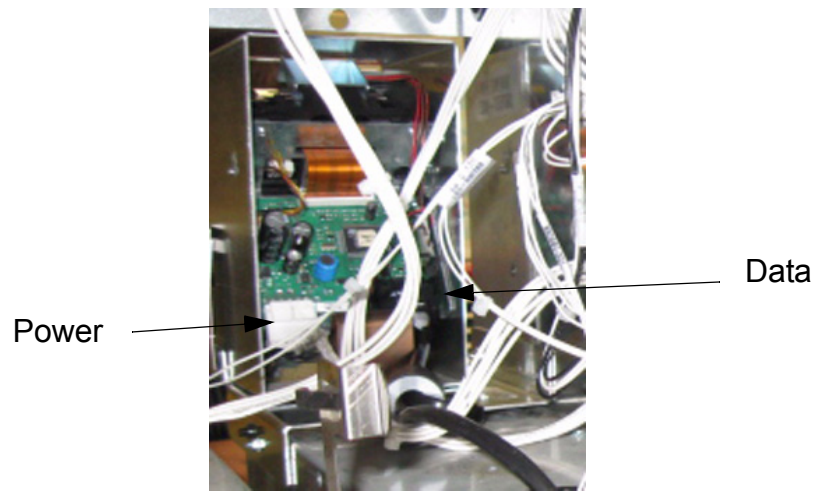


FIGURE 9A



FIGURE 9B

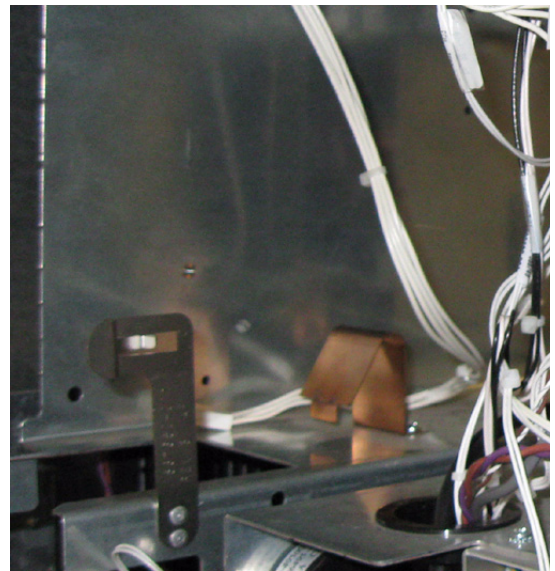


FIGURE 9C

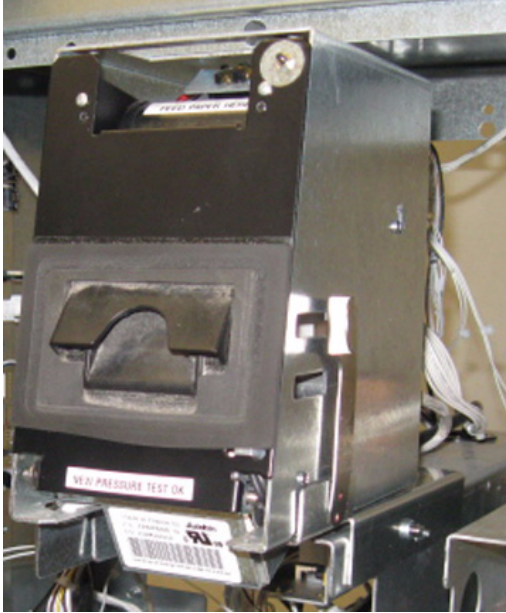


FIGURE 10

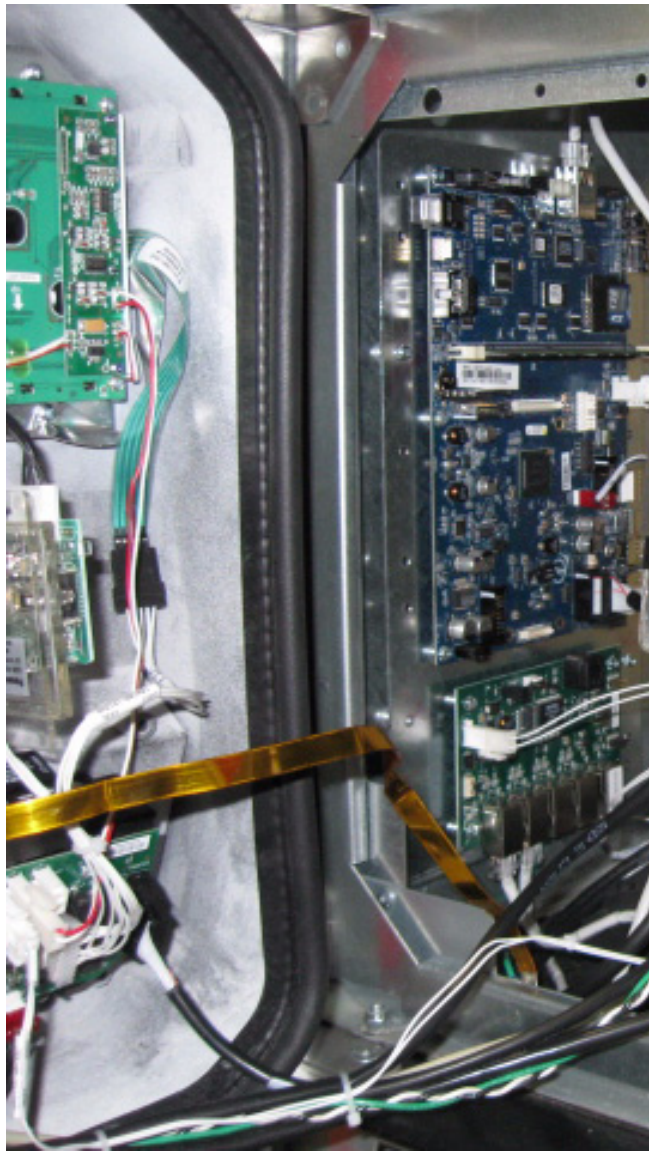


FIGURE 11



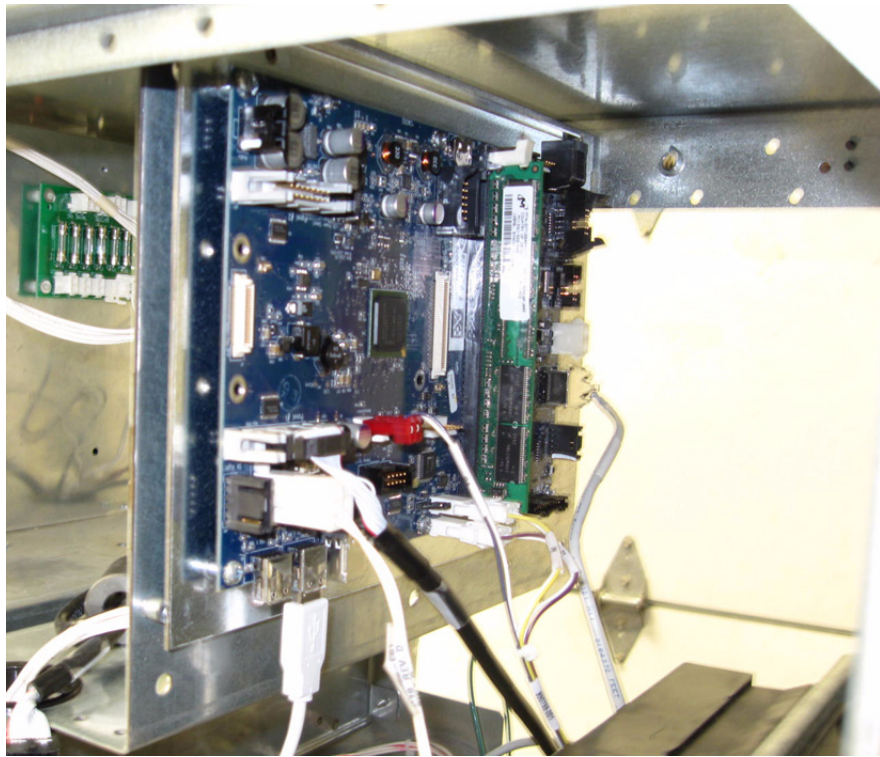


FIGURE 12

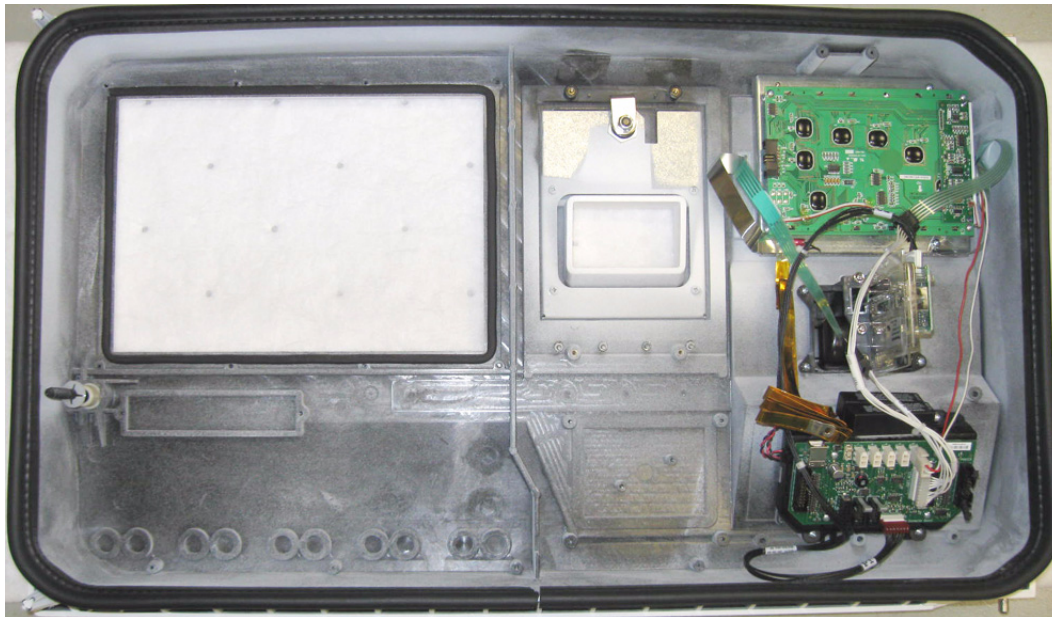


FIGURE 13

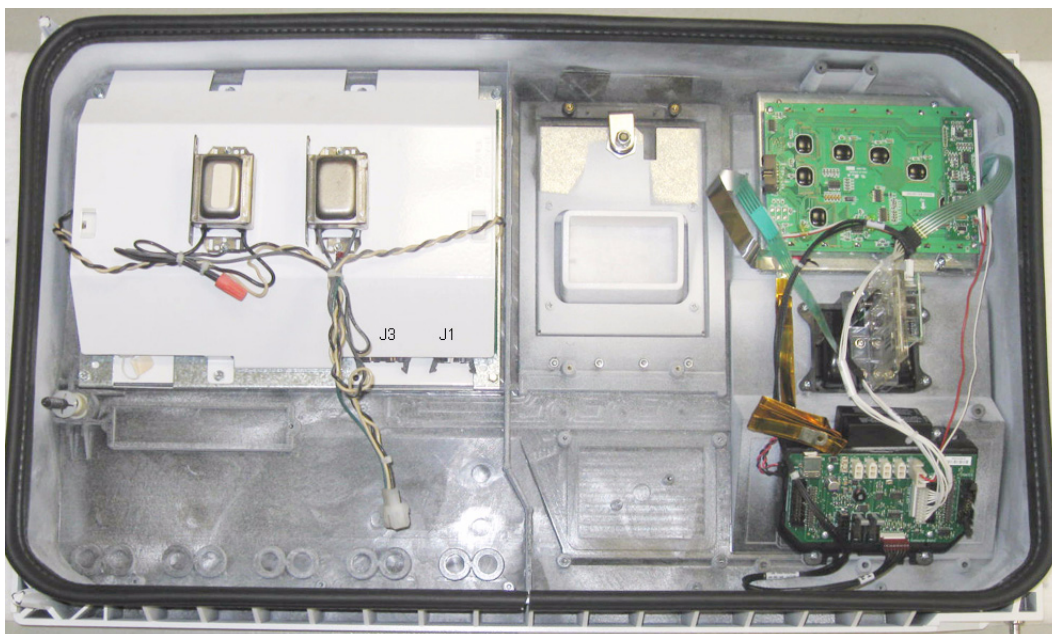
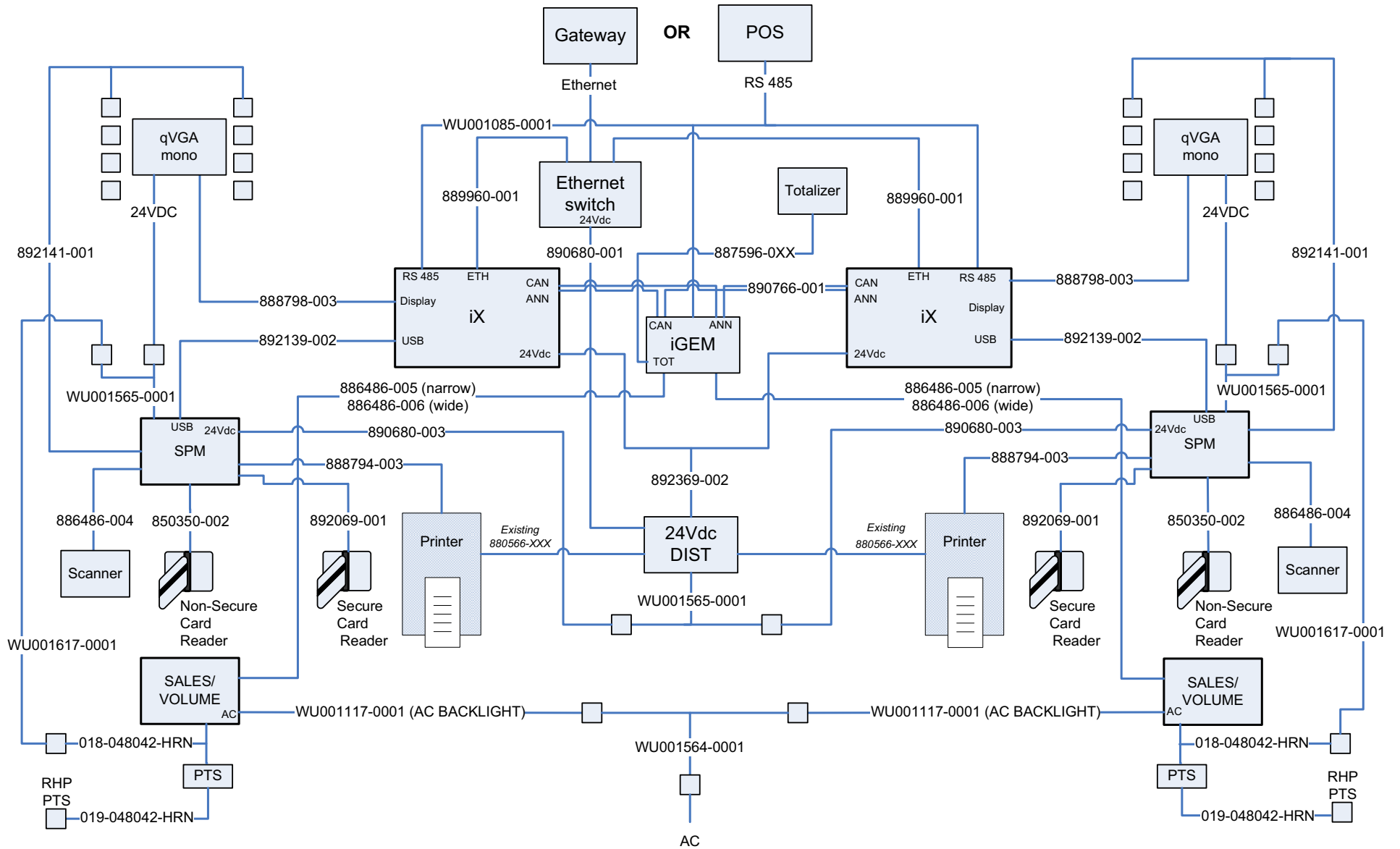


FIGURE 14

### 3 Vista SPM Retrofit Wiring Diagram

SIDE 1

SIDE 2





# INSTALLATION MANUAL

## SPM Retrofit Kits for 3V Dispensers

Written by S. G. Martin

This manual was produced using Adobe® FrameMaker® and Photoshop®

Page design uses Arial Fonts

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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."

