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R09 S2

Retrofit G7 8 inch Wayne Vista 4V &amp; 3V with 4V door Wide (US) Installation Guide

# Retrofit G7 8 inch Wayne Vista 4V & 3V with 4V door Wide (US) Installation Guide

Kit Part Numbers	Brief Description
RF00015-XX	G7 8 inch Wayne Vista 4V Wide
RF00016-XX	G7 8 inch Wayne Vista 3V Converted to 4V, Wide

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## Release History

Version	Prepared by	Date	Change description
0	Shaun Craill	24-Sep-2020	Initial draft
1	Michael Doh	05-Oct-2020	Review and updates, added flashing and hinge changes for 3V-4V.
2	Shaun Craill & Michael Doh	28-Oct-2020	Address UL comments, moved MS0233 to fastener kit, added printer cable connection, ethernet cable checking and pilot hole for flashing steps
3	Shaun Craill & Michael Doh	02-Nov-2020	Addressed remaining UL comments
4	Shaun Crail	06-Nov-2020	Addressed remaining UL comments
5	Shaun Craill	13-Nov-2020	Addressed remaining UL comments. Sequence re-order to permit accessibility to mounting screws (Vista 3V pumps).
6	Shaun Craill	23-Nov-2020	Addressed remaining UL comments. Sequence logic clarified.
7	Shibani Joshi	28-Sep-2021	Converted electronic brackets into separate kits and added PSU adaptor bracket MZ0302 & replaced PSU assembly with revised mounting instructions for 4V dispensers.
8	Michael Doh	14-Dec-21	Updates based on UL comments
9	Shibani Joshi	25-Jan-22	Changed the power supply P/N from EZ0409 to EZ0703

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## 1 Introduction

This documentation provides guidelines for installing the G7 8 inch (G7-100 SDC-08) Outdoor Payment Terminal (OPT) system into the following dispensers:

### A. Single or both sides of a Wayne Vista 4V Wide dispenser

(Kit part number: RF00015-XX)

- Can only be installed into wide dispenser types.
- For a double-sided installation, two of these Kits are required.

For a single-sided installation, or if this Kit will be installed into Side A (i.e. the first side installed) of a double-sided installation, it requires the pre-installation of UL Listed by Report Retrofit Kit Part Number RF00078-XX (Retrofit Electronics Bracket for G7 8 inch Wayne Vista 4 Wide) before installation into the dispenser. The process is covered from Step **82** of this instruction.

### B. Single or both sides of a Wide Wayne Vista 3V Wide dispenser retrofitted with a 4V door

(Kit part number: RF00016-XX)

Ensure to verify that this pump has a UL Listed by Report Retrofit Kit Part Number WU001592-0001 installed.

- Can only be installed into wide dispenser types.
- For a double-sided installation, two of these Kits are required.

For a single-sided installation, or if this Kit will be installed into Side A (i.e. the first side installed) of a double-sided installation, it requires the pre-installation of UL Listed by Report Retrofit Kit Part Number RF00086-XX (Retrofit Electronics Bracket for Wayne Vista 3V-4 Wide) before installation into the dispenser. The process is covered from Step **70** of this instruction.

**IMPORTANT NOTE:** The installer must review the entire installation guide prior to starting any work on the dispenser. If the construction of the dispenser in the installation guide does not match the construction of the dispenser being retrofitted, then do not proceed with the installation and contact customer service.

In particular, an earlier revision of the above Retrofit kits may not have the InvencoLink DC power cable fitted on the PSU assembly. If this is the case, stop the installation and contact technical support to obtain the correct matching revision of the kit.

## 1.1 Tools Required

The following tools are required to mount the retrofit kit:

- Wayne Security Door Key or T40 Security Torx Key.
  - Wayne 1290 Key
  - Side Cutters.
  - Philips #1 Screwdriver.
  - Philips #2 Screwdriver.
  - Socket set, including 3/8", 7/16", 1/4" 9/16", 11/16" and 11/32" sockets.
  - Panel Beater stand or similar.
  - Brace and Bit Drill or similar.
  - 14mm or 9/16" spade drill.
  - 15mm or 5/8" spade drill.
  - 3mm and 8mm drill bits.
  - Permanent marker pen.
  - Sharp knife or plumbers pipe deburring tool.
  - Small mallet.
  - 3/4" or 19mm Open Spanner.
  - 1/4" Nut Driver.
  - 1/4" Ring Spanner
  - Glass cleaner and clean soft cloths.
  - Scotch-brite pad or similar.
  - RTV Outdoor Silicone Sealant. Neutral cure.
  - Flat scraper blade.
  - 3mm and 4mm Hex Key.
  - 3", 4" & 6" (75mm, 100mm & 150mm) Cable Zip Ties.
  - Isopropyl Cleaning Alcohol.
  - Step Ladder.
  - Vice or other clamping method
  - Hacksaw
  - Flat-file



## **WARNING**

**Do NOT** use power tools if working on a fuel station forecourt.  
Any spark could cause an explosion.

Any spark could cause an explosion.

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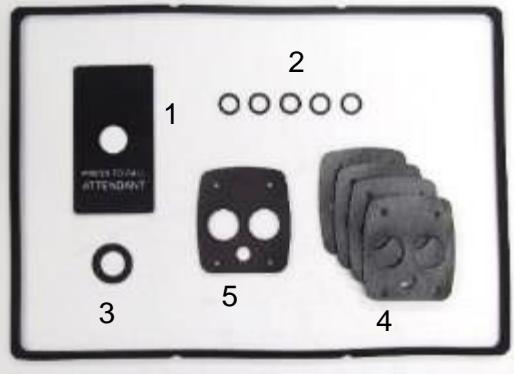
### 1.2 Installation Kit Contents

**G7 8 inch (G7-100 SDC-08) Outdoor Payment Terminal (OPT) system, Single side (side A or side B) of a Wayne Vista 4V Wide dispenser  
(Kit part number: RF00015-XX):**

Unpack the G7 8 inch Vista 4V Wide single side Retro-Fit Kit (RF00015-XX) and check that all of the parts listed below are present. Also refer to the installation procedure for the Retrofit Electronics Bracket for G7 8 inch Wayne Vista 4 Wide (from Step 82). One of each of the following parts is required for each side installed.



1 x Left Door Kit, G7-8 OPT (RP00015-XX)



1 x Gasket Kit (GK0001)

1. DL0341 Call Button Decal. Qty=1
2. MP0869 LED Lens O-rings. Qty=5
3. MW0051 Call Button Washer. Qty=1
4. MP0862 Selector Grade Gasket. Qty=5
5. MP0864 PPU Window Gasket. Qty=1



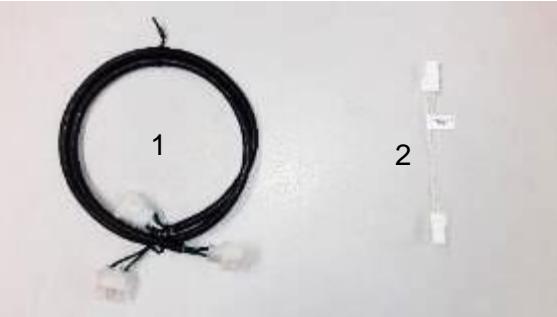
1 x PSU Assembly (EZ0703) and Mounting Adaptor Bracket (MZ0302)



1 x Fastener Kit (FK0039)

1. MS0160 M4X10 SEMS Screw. Qty=10
2. MS0262 8-32 x 3/8" Screw. Qty=4
3. MS0148 M3X10 SEMS Screw. Qty=2
4. MS0220 #4-20 Screw & Washer. Qty=8
5. MS0233 #8-18 Screws Qty=2
6. MF0046 Cable Tidy Qty=5

## Retrofit G7 8 inch Wayne Vista 4V &amp; 3V with 4V door Wide (US) Installation Guide

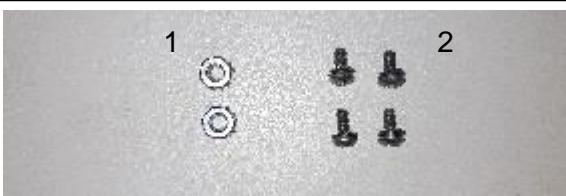


1 x Cable Kit (IA0113)

1. EK0137 1.0m Pump to PSU Power Adapter Cable. Qty=1
2. EK0202 Fuel Grade LED Cable 0.1m. Qty=1



1 x Right Door Kit, Totalizer and Printer (RP00045-XX)

1 x Printer Assembly including cables.  
(EZ0649)1 x Power Supply Bracket Fastener Kit  
(FK0051)

1. MN0029 #8-32 SEMS Nut. Qty=2
2. MS0262 8-32 x 3/8" Screw. Qty = 4  
(not used in this kit)

Optional Parts: 1 x Exciter & 1 x Audio Cable.  
(IA0015 and EK0096)

NOTE: for this kit:

FK0039: MS0262 and MS0233 are not used, and these items can be discarded.

FK0051: MS0262 are not used, and these items can be discarded.

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**Single or both sides of a Wide Wayne Vista 3V dispenser retrofitted with a 4V door  
(Kit part number: RF00016-XX):**

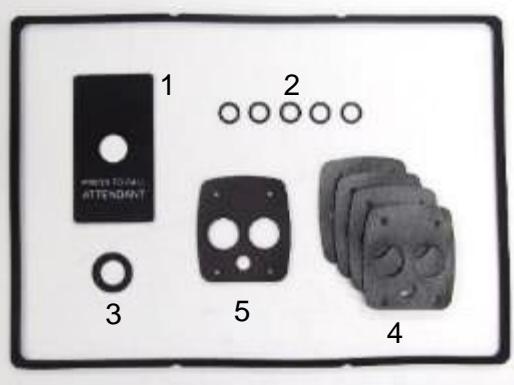
Unpack the G7-8 Wide Vista 3V retrofitted with a 4V door Retro-Fit Kit (RF00016-XX) and check that all of the parts listed below are present. One of each of the following parts is required for each side installed.



1 x Left Door Kit, G7-8 OPT (RP00016-XX)



1 x PSU Kit, Vista 3V, G7 (EZ0703)



1 x Gasket Kit (GK0001)

1. DL0341 Call Button Decal. Qty=1
2. MP0869 LED Lens O-rings. Qty=5
3. MW0051 Call Button Washer. Qty=1
4. MP0862 Selector Grade Gasket. Qty=5
5. MP0864 PPU Window Gasket. Qty=1



1 x Fastener Kit (FK0039)

1. MS0160 M4X10 SEMS Screw. Qty=10
2. MS0262 8-32 x 3/8" SEMS. Qty = 4
3. MS0148 M3X10 SEMS Screw. Qty=2
4. MS0220 #4-20 Screw & Washer. Qty=8
5. MS0233 #8-18 Screws Qty=2
6. MF0046 self-adhesive cable Qty=5

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1 x Cable Kit (IA0113)

1. EK0137 1.0m Pump to PSU Power Adapter Cable. Qty=1
2. EK0202 Fuel Grade LED Cable 0.1m. Qty=1

1 x Printer Assembly, including cables.  
(EZ0649)1 x Right Door Kit, Totalizer and Printer  
(RP00045-XX)1 x Left Door Upper Replacement Hinge,  
Vista 3V to 4V.(MP1118)1 x Left Door Lower Replacement Hinge,  
Vista 3V to 4V.(MP1119)

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Optional Parts: 1 x Exciter & 1 x Audio Cable.  
(IA0015 and EK0096)



1 x Flashing, Vista 3V to 4V Wide with adhesive tape.  
(MP1120)

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## 2 Safety & Compliance Information

This section introduces the hazards and safety precautions associated with installing, inspecting, maintaining or servicing G7 8 inch (G7-100 SDC-08) OPT system. Before proceeding, check the relevant hazard and safety information. Fire, explosion or electrical shock could occur and cause death or serious injury if these safe service procedures are not followed.

### 2.1 Preliminary Precautions

You are working in a potentially dangerous environment of flammable fuels, vapor, and high voltage. Only trained or authorized individuals knowledgeable in the related procedures should install, inspect, maintain or service this equipment.

### 2.2 Emergency Total Electrical Shut-Off

Locate the forecourt emergency fuel shut-off valves and electrical isolation breakers. Understand how to use these, should they be required. Locate the switch or circuit breakers that shut-off all power to all fueling equipment and dispensing devices.

### 2.3 Total Electrical Shut-Off Before Access

Any procedure requiring access to electrical components or the electronics of a pump/dispenser requires total electrical shut-off of that unit. Understand the function and location of this switch or circuit breaker before inspecting, installing, maintaining, or servicing the G78 inch (G7-100 SDC-08) OPT system.

### 2.4 Evacuation, Barricading and Shut-Off

Any procedures requiring accessing a pump/dispenser head requires the following three actions:

- An evacuation of all unauthorized persons and vehicles
- Using safety tape or cones as barricades to the effected units
- A total electrical shut-off of the affected unit(s)

### 2.5 Read the Manual

Read, understand and follow this manual and any other labels or related materials supplied with the equipment. If you do not understand a procedure, call an Invenco Authorized Service Centre or Invenco

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Service Officer. It is imperative to your safety and the safety of others to understand the procedures before beginning work.

## 2.6 Follow the Regulations

Regulations in OSHR (Occupational Safety and Health Regulations), national, state and local codes, including customer requirements must be followed. Failure to install, inspect, maintain or service this equipment in accordance with these codes, regulations and standards may lead to legal citations with penalties and may affect the safe use and operation of the equipment.

## 2.7 Replacement Parts

Use only genuine Invenco replacement parts and retrofit kits on your installation. Using parts other than genuine Invenco replacement parts could create a safety hazard and violate local regulations.

## 3 Safety Symbols and Terminology



This safety alert symbol is used in this manual and on warning labels to alert you to a precaution which must be followed to prevent potential personal safety hazard. Obey safety directives that follow this symbol to avoid possible injury or death.

### Signal Words

These signal words used in this manual and on warning labels tell you the seriousness of particular safety hazards. The precautions below must be followed to prevent death, injury or damage to the equipment:



**DANGER:** Alerts you to a hazard or unsafe practice which will result in death or serious injury.



**WARNING:** Alerts you to a hazard or unsafe practice that could result in death or serious injury.



**CAUTION:** Designates a hazard or unsafe practice which may result in minor injury, property or equipment damage.

### Working With Fuels and Electrical Energy

### 3.1 Prevent Explosions and Fires

Fuels and their vapors may explode or burn if ignited. Spilled or leaking fuels cause vapors. Even filling customer tanks will cause potentially explosive vapors in the vicinity of dispenser or island.

#### 3.1.1 No Open Flames



Open flames from matches, lighters, welding torches or other sources can ignite fuels and their vapors.

#### 3.1.2 No Sparks - No Smoking



Sparks from starting vehicles, starting or using power tools, burning cigarettes, cigars or pipes can also ignite fuels and their vapor. Static electricity, including an electrostatic charge on your body, can cause a spark sufficient to ignite fuels and their vapors. After getting out of a vehicle, touch the metal of your vehicle to discharge any electrostatic charge before you approach the dispenser island.

#### 3.1.3 Working Alone

It is highly recommended that someone who is capable of rendering first aid be present during servicing. Be familiar with Cardiopulmonary Resuscitation (CPR) methods if you are working with or around high voltages. This information is available from the First Aid training providers. Always advise the station personnel about where you will be working, and caution them not to activate power while you are working on the equipment. Use the OSHA Tag-out/Lockout procedures. If you are not familiar with this requirement, refer to information in the relevant manual and OSHA documentation.

#### 3.1.4 Working with Electricity Safety

Ensure that you use safe and established practices in working with electrical devices. Poorly wired devices may cause a fire, explosion or electrical shock. Ensure that grounding connections are properly made. Take care that sealing devices and compounds are in place. Ensure that you do not pinch wires when replacing covers. Follow OSHA Tag-out/Lockout requirements. Station employees and service contractors need to understand and comply with this program completely to ensure safety while equipment is down.

Follow all applicable requirements in NFPA 30, 30A and 70, and those of the Local Authority Having Jurisdiction for electrical wiring.

#### 3.1.5 Hazardous Materials

Some materials present inside electronic enclosures may present a health hazard if not handled correctly. Be sure to clean hands after handling equipment. Do not place any equipment in mouth.

#### 3.1.6 In an Emergency

Compile the following information in case of emergency:

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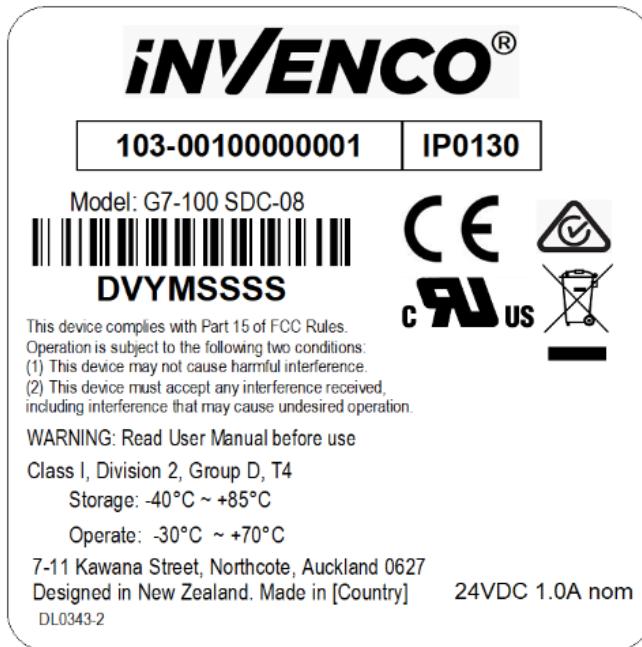
- Location of accident (e.g. address, front/back of building, etc).
- Nature of accident (e.g. possible heart attack, struck by a vehicle, burns, etc).
- Age of victim (e.g. baby, teenager, middle-age, elderly).
- Whether or not victim has received first aid (e.g. stopped bleeding by application of pressure etc).
- Whether or not victim has vomited (e.g. if swallowed or inhaled something etc).

**IMPORTANT:** Oxygen may be needed at scene if gasoline has been ingested or inhaled. Seek medical advice immediately.

### 3.1.7 Approvals

Invenco develops and maintains its hardware and software products using industry-standard quality processes, and is audited by various bodies.

The Invenco G78 inch (G7-100 SDC-08) OPT system has UL File Reference of E469526 and E480135 and carries labels similar to this:



The Invenco Retro-Fit Kit has UL File Reference of MH61528.

### 3.1.8 Laser Warning

Some modules of the G7 or G7 15 inch (G7-100 SDC-15) OPT may incorporate a barcode reader. The barcode reader incorporates a laser aiming system. The Laser has a Class 2 output power to IEC 60825-1:2007 / ANSI Z136.1



### 3.2 Computer Programs and Documentation

All Invenco Group Ltd. computer programs (including software on discs and within memory chips) and documentation are copyrighted by, and shall remain the property of, Invenco Group Ltd. Such computer programs and documents may also contain trade secret information. The duplication, disclosure, modification, or unauthorized use of computer programs or documentation is strictly prohibited, unless otherwise licensed by Invenco Group Ltd.

## 4 Disassembly Procedure

**PRECAUTION:**

- Please ensure all safety procedures are followed per requirement by the customer before installing the retrofit kit.
- Remove power to Pump and follow the OSHA Lock-out/Tag-out procedures.



### WARNING

Failure to turn off the unit during installation of the kit may cause injury or bodily harm from electrical shock.  
Ensure that all power to the unit is switched off before opening the door of the unit and during kit installation.

- This installation will require a panel replacement. The panel will be removed from the door and replaced with a pre-built panel with the OPT pre-fitted.

Before installation of the equipment can take place, the existing electronic payment assembly must be removed from the dispenser. This section covers the removal of these components including:

- The Doors
- The Printer
- The Printer Bracket (Vista 3V only)
- The CPU Mount Panel
- The Q-CAT Board (or the dual CAT board)
- Various Cable Assemblies

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**NOTE: The following procedure applies to all kits covered by this manual, except steps where specified applying to only specific kits.**

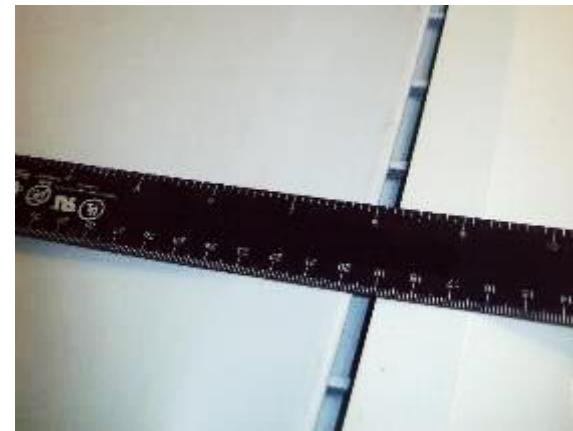
1. At the main disconnect panel, disconnect all power to the dispenser and the pump servicing the dispenser. Tag all disconnected breakers to prevent others from reconnecting power.
2. Identify the Side A of the dispenser.

**Note:** *For the purposes of this manual, Side A of the dispenser refers to the side with the manufacturer's label/Serial Number Plate.*

3. Identify whether the pump is a 3V Vista converted to mount a Vista 4V door or a standard Vista 4V dispenser from the pictures below – some installation steps vary depending which version you have.



The 3V door gap at the top of the dispenser is slightly under  $\frac{3}{4}$ " (18mm).



The 4V door gap at the top of the dispenser is around  $\frac{1}{4}$ " (6mm).



A typical Wide Frame Vista 4V Pump.

This has an additional small door on the right of the dispenser.

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4. Open dispenser by unscrewing one screw. A security lock may be present (will not be replaced).



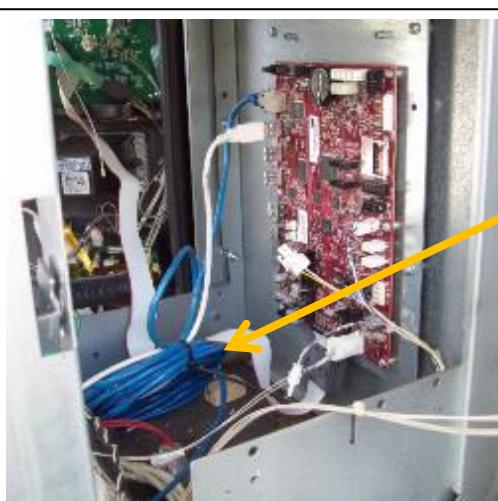
Vista 4V Wide Frame dispenser shown.



Using Wayne Key



Alternative: Use T40 Security Torx Key

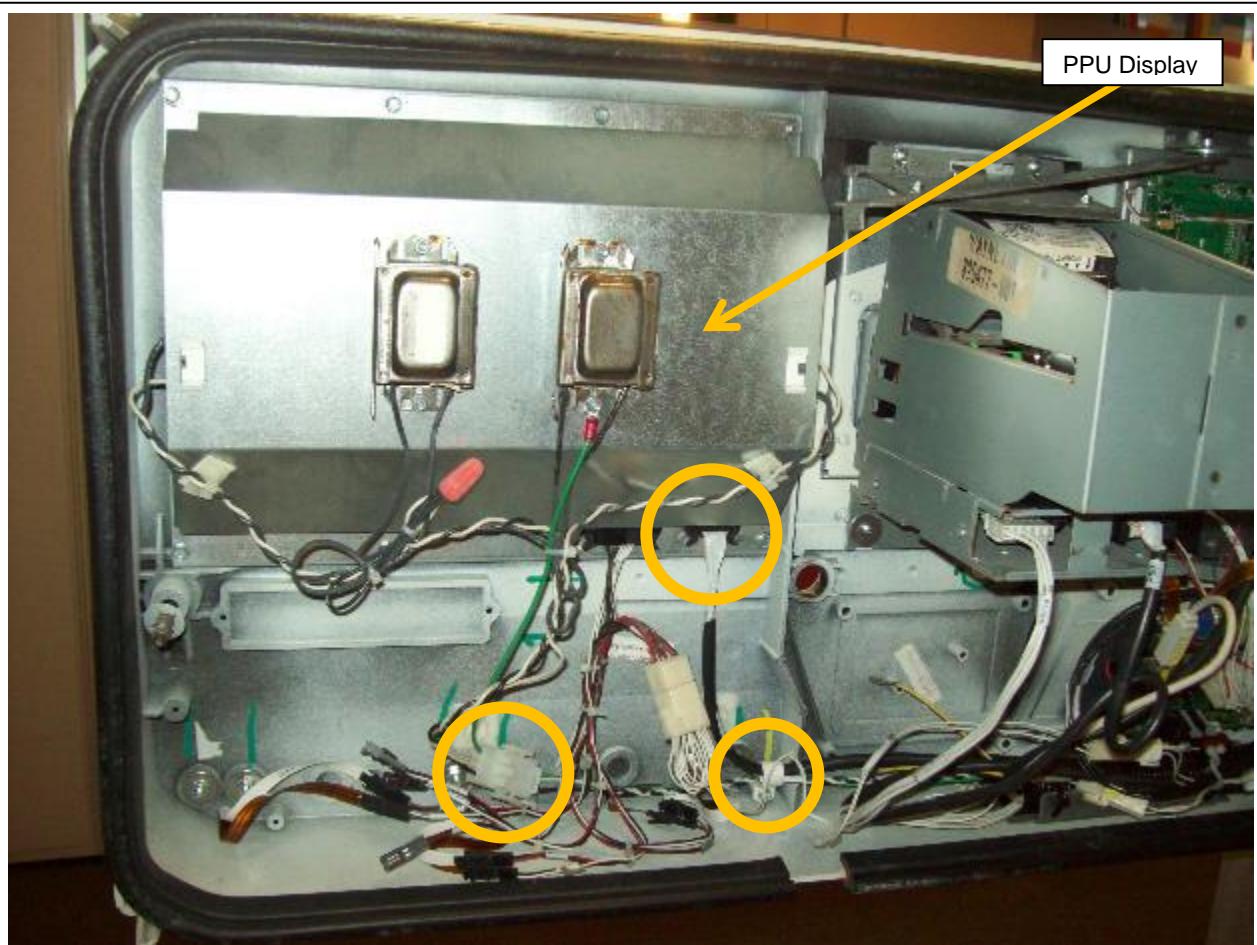


Ethernet cable connected to Q-CAT Board.  
Vista 3V example shown.

**NOTE:** At this stage, check to ensure that the dispenser has ethernet cables already fitted, e.g. as per the image at left (for double sided installation, two ethernet cables, each fitted in a separate Q-CAT board). If this is not present, the installation kit is not suitable for this installation – stop the installation, close the dispenser back and contact customer service for support.

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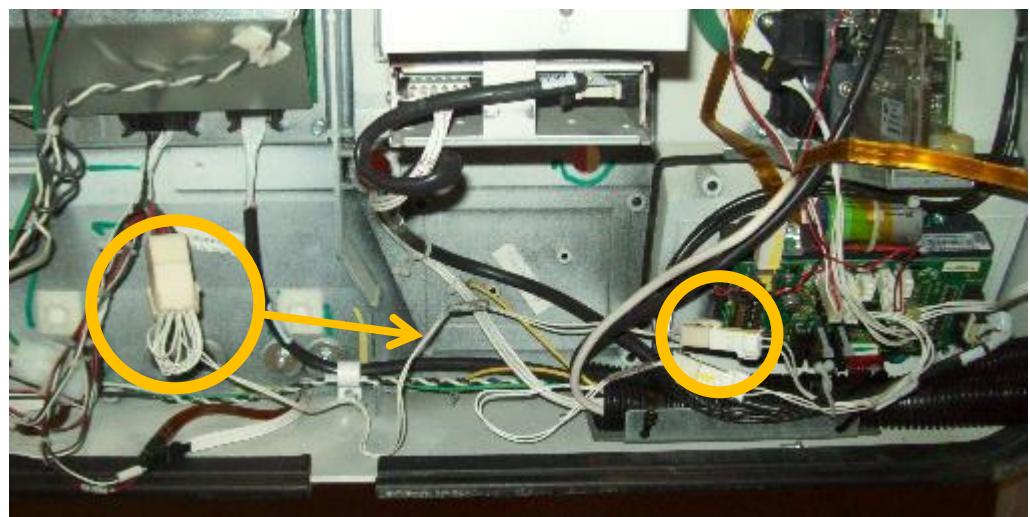
5. Locate and disconnect the Power Supply cable and the Communications cable to the PPU Display (label these cables as they will be reconnected later), remove any cable clips or ties securing these cables.



Vista 4V dispenser shown. PPU Power Supply cable: green, white & black. PPU Data cable: ribbon cable in sheath. P clip securing cables as circled, unfasten with a  $\frac{1}{4}$ " socket or nut-driver.

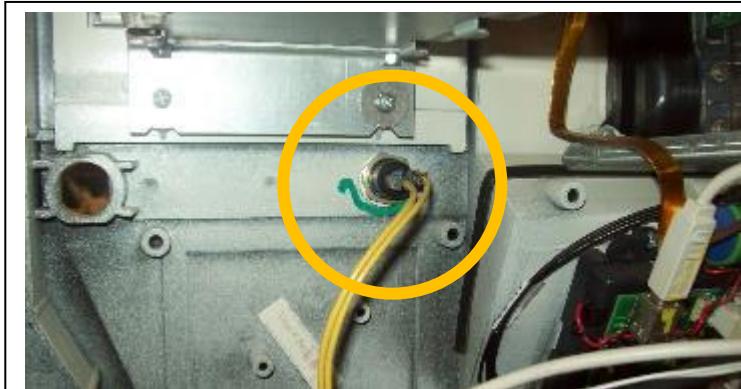
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6. Check if the large white 12 pin connector to the fuel grade select switches has a pair of white cables leading towards the hinge side of the door. If it does, trace these to the white 2 pin connector and disconnect (label this connector as it will be reconnected later to cable EK0202).



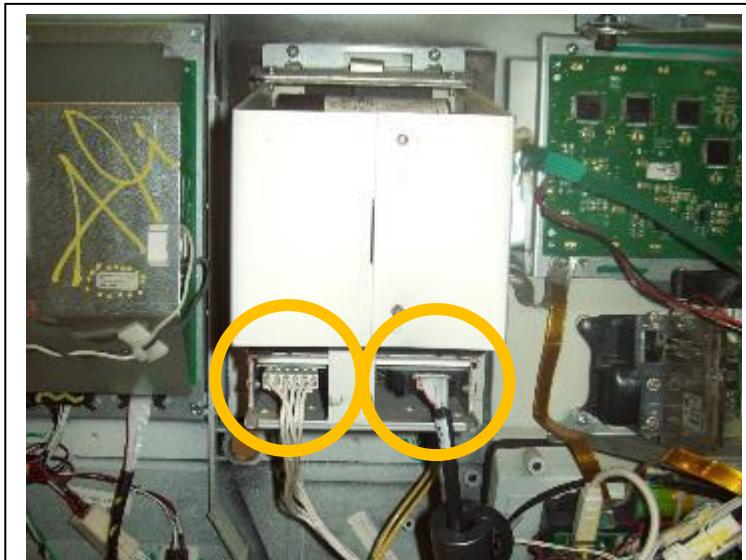
If present, trace the cable pair from the 12 pin connector attached to the fuel grade selector switches. Disconnect the 2 pin connector and label the selector switch end as it will be reconnected later to cable EK0202.

7. If an Attendant Call Button is fitted, locate and disconnect the two yellow spade terminals. Label these cables for reconnection later.

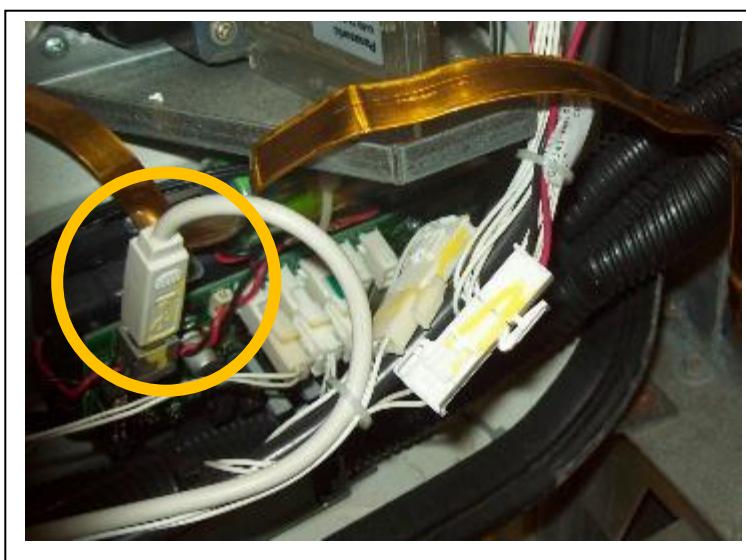


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8. If the dispenser is a Vista 4V model, locate and disconnect the two printer cables on the back of the door. These cables will not be reconnected and will be discarded later when the trunking cable ties have been removed.

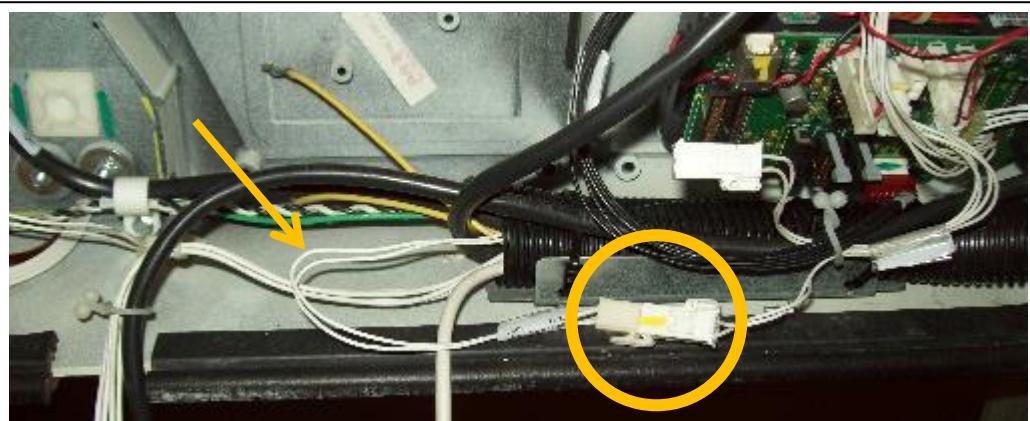


9. Locate and disconnect the USB cable off the keypad. This cable will not be reconnected and will be discarded later when the trunking cable ties have been removed.



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- 10.** Locate and disconnect the white two pin cable coming out of the wiring harness trunking. Label the connector coming from the trunking as it will be reconnected later to the other end of cable EK0202 connecting to the Fuel Grade Selector Switches.

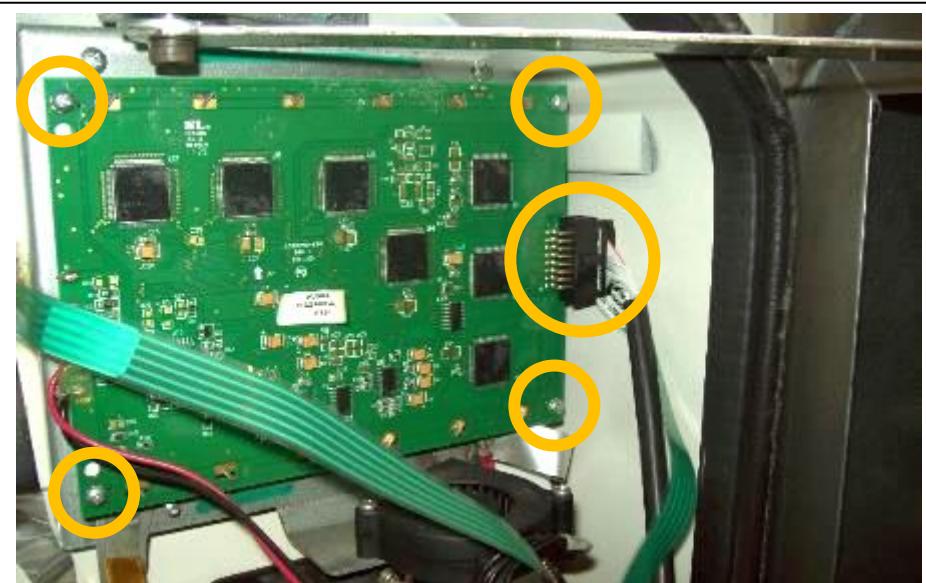


- 11.** Locate and disconnect the ten pin (p7) cable from keypad. This cable will not be reconnected, and will be discarded later when the trunking cable ties have been removed.

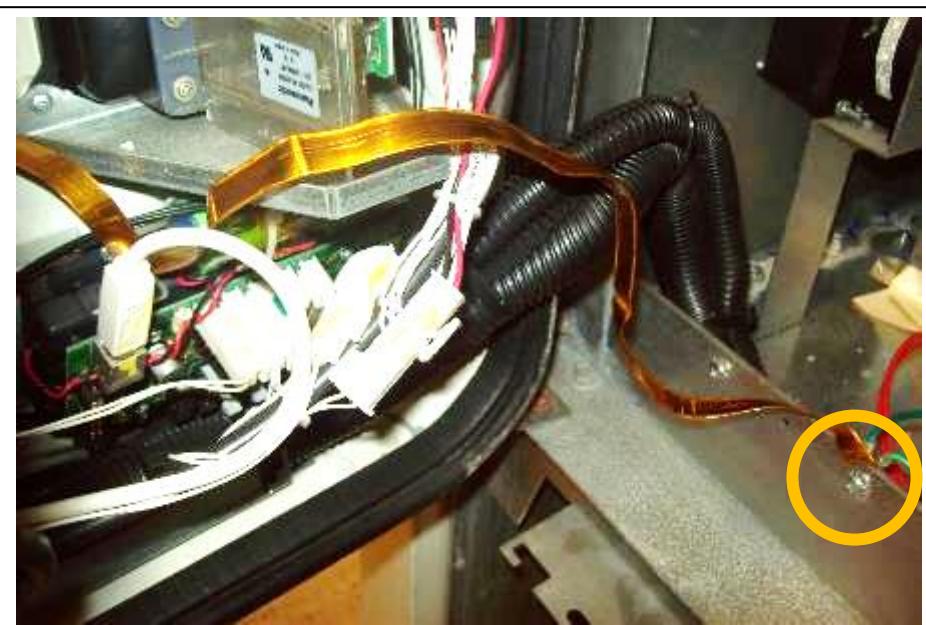


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- 12.** Remove four Philips #1 head screws holding the display board and discard both the board and the screws. Disconnect the display cable. This cable will not be reconnected and will be discarded later when the trunking cable ties have been removed.

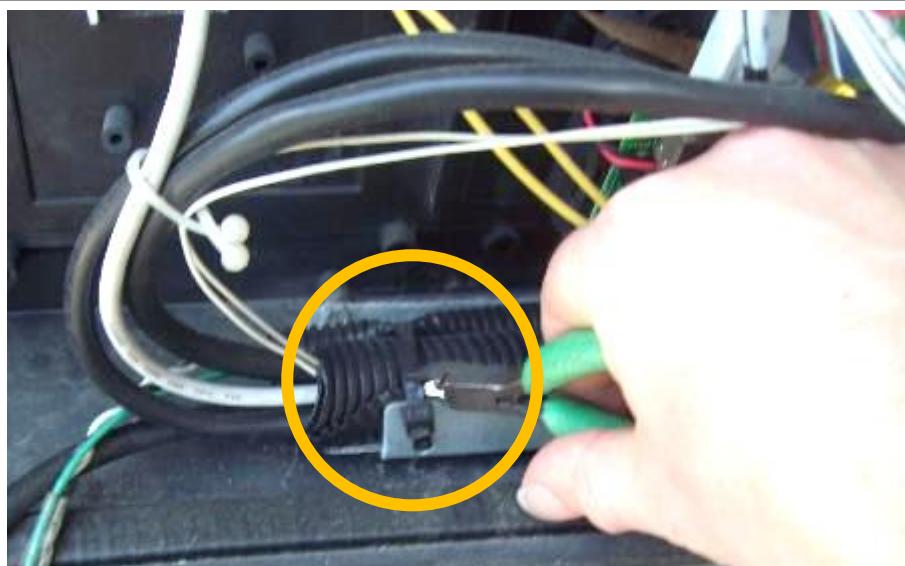


- 13.** Remove bonding flat cable for the door by unscrewing the screw on the dispenser frame. Replace the screw and nut since it is still holding other bonding/ground wires.



## Retrofit G7 8 inch Wayne Vista 4V &amp; 3V with 4V door Wide (US) Installation Guide

- 14.** Remove any remaining cable connections or grounding cables that may still prevent removal of the door. Remove any zip ties holding the wire harness and trunking to the door and to the inside the dispenser. Make a note of where these cable ties are attached as they will be replaced later. Discard all unwanted cables disconnected in previous steps. Temporarily store the cable harness and trunking, with remaining cables, inside the pump cabinet.



## Retrofit G7 8 inch Wayne Vista 4V &amp; 3V with 4V door Wide (US) Installation Guide

- 15.** Unlatch the door stay. This may be either a tension cable type (Vista 3V dispensers converted to take a Vista 4V door) or a Metal Strap type (Vista 4V dispenser).

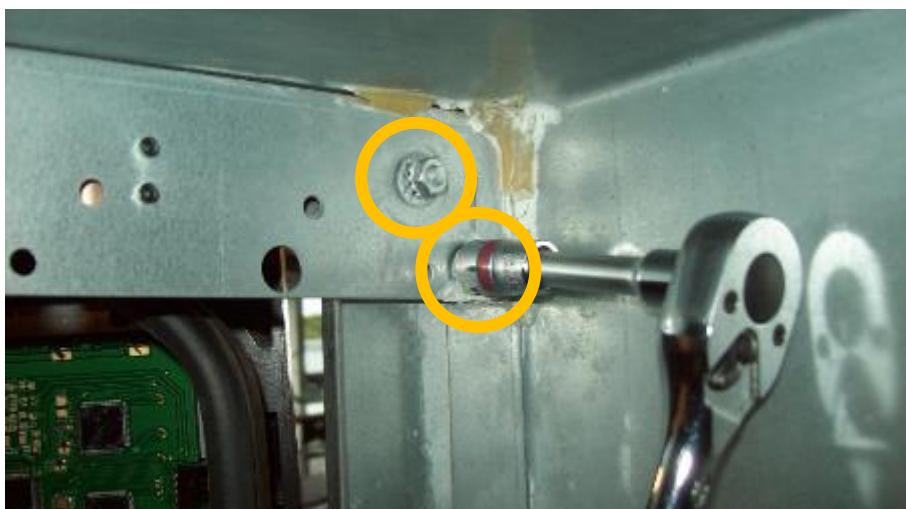


ABOVE: Tension cable door stay on a Vista 3V dispenser.



ABOVE: Metal Strap type on a Vista 4V dispenser.

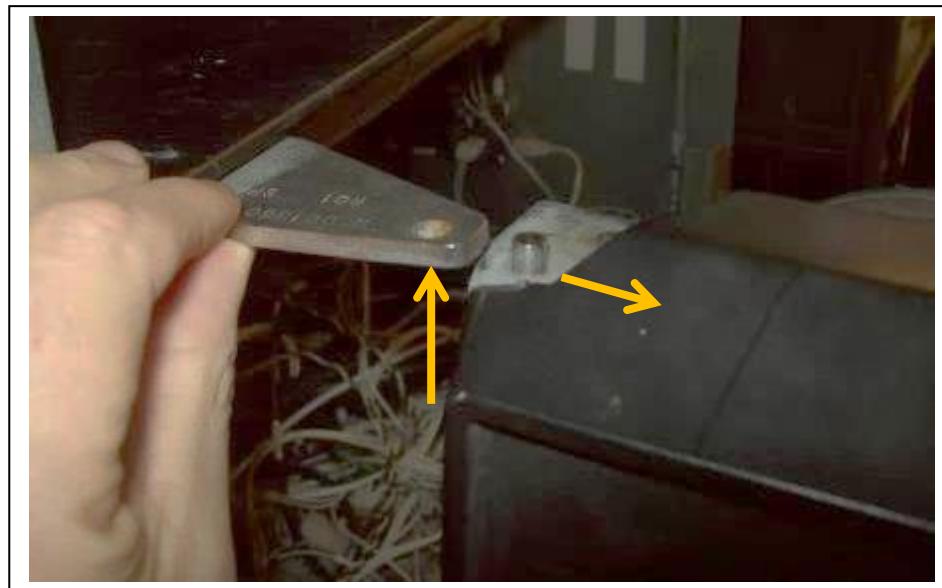
- 16.** Loosen the two retaining nuts for the top door hinge bracket from the inside of the dispenser. Do not completely remove the nuts off the bracket. For a Vista 3V dispenser, use a 3/8" socket. For a Vista 4V dispenser use a 7/16" socket.



ABOVE: Vista 3V dispenser shown from inside the cabinet. The top hinge bracket nuts are in the same location on a Vista 4V dispenser.

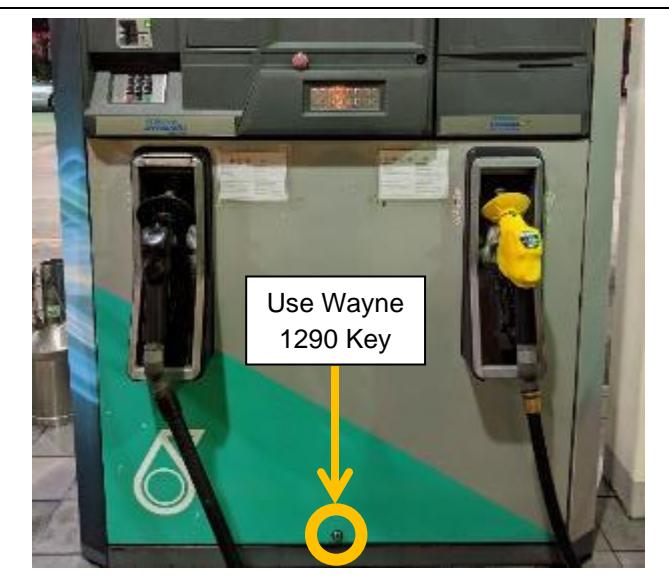
## Retrofit G7 8 inch Wayne Vista 4V &amp; 3V with 4V door Wide (US) Installation Guide

- 17.** While supporting the weight of the door, lift the loosened top hinge bracket off the top hinge pin and remove the door. Temporarily retain the door as parts from this door will now be refitted to the Retrofit Kit replacement door.



For the Vista 3V dispenser, after the door has been removed, further loosen the two retaining nuts for the top door hinge bracket until the hinge can be removed completely. Discard the hinge, however, retain the nuts to refit the replacement hinge.

Fit the new replacement hinge (MP1118) in the same location and with the same nuts that were retained, tightening by hand only loosely, so that the replacement door can be slotted in during the installation procedure.



For the Vista 3V dispenser, also replace the lower hinge similarly. Unlock the lock at the bottom of the pump hydraulics panel (circled) using a Wayne 1290 Key. To remove the panel, first temporarily remove the pump nozzles from the holsters.

**WARNING:**

Take care to prevent fuel spills from any fuel remaining in the nozzles.

Lift the panel off the bottom locating pins and pull outwards from the bottom. Manoeuvre the panel over the holster mounts. Remove the panel from the pump and place safely to one side. Replace the nozzles in the holsters.

## Retrofit G7 8 inch Wayne Vista 4V &amp; 3V with 4V door Wide (US) Installation Guide

Loosen the two retaining screws for the lower door hinge bracket from the outside of the dispenser until the hinge can be removed completely. Use a 4mm Hex Key while holding the nut with 7/16" socket. Discard the hinge (it will be replaced), however, retain the screws & nuts to refit the replacement hinge.



Fit the new replacement hinge (MP1119) in the same location and with the same screws & nuts that were retained, tightening with the 4mm Hex Key while holding the nut with 7/16" socket. Refit the hydraulics panel removed earlier using the reverse procedure. Lock with a Wayne 1290 Key. Replace the nozzles in the holsters.

**WARNING:**

Take care to prevent fuel spills from any fuel remaining in the nozzles.

- 18.** Obtain the Left Door Retrofit Kit assembly with G7-8 OPTs mounted (RP00015-XX or RP00016-XX). Carefully place the assembly face down on the panel beater stand (or similar protected work surfaces).

Note: during the fit-out process the door panel may need to be turned over several times to access either the front or the back of the door.



Left Door Retrofit Kit assembly with G7-8 OPT mounted (RP00015-XX or RP00016-XX)



Panel Beater Stand or similar padded support system used to protect painted surfaces on the replacement door during fit out work.

- 19.** Use a 14 mm (or 9/16 in.) spade drill to drill out the two holes for each grade select button being swapped to the new door. Drill out from the inside of the door. Make sure that they are in the matching location as on the door that has been removed.

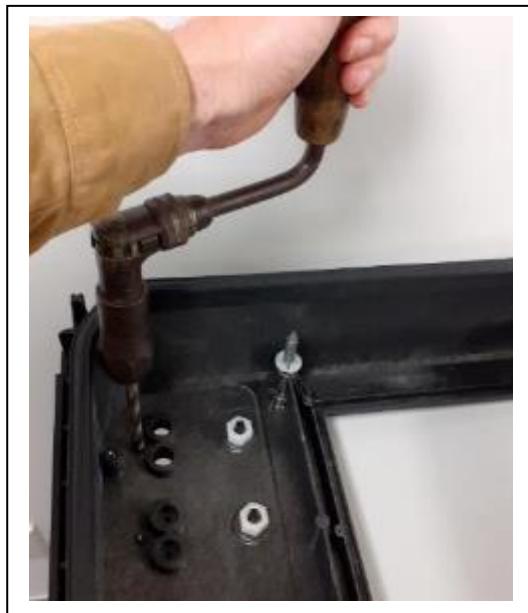


**WARNING:** Electric power tools are not permitted on the forecourt.  
Either use a manual drill, a pneumatic drill, or work on the replacement door outside of the hazardous location.

**20.** Use an 8 mm drill to drill out the hole at the bottom for each grade select button for the cable(s).



**WARNING:** Electric power tools are not permitted on the forecourt.  
Either use a manual drill, a pneumatic drill, or work on the replacement door outside of the hazardous location.



**21.** Use a sharp knife or deburring tool to clean up the outside edges of all drilled holes to be free from any raised edges. Sweep out all swarf from the inside and outside of the door.



## Retrofit G7 8 inch Wayne Vista 4V &amp; 3V with 4V door Wide (US) Installation Guide

- 22.** Remove the Fuel Grade Select Buttons from the original door using a 11/32". socket. Retain the washers, nuts, and Grade Select Buttons to be reinstalled. Disconnect the two 2-pin cables (ACT, and LED if fitted) and retain the cable harness. Note which position the Grade Select Buttons came from and any labelling used on cables for reconnection later.



- 23.** Remove and discard the gasket from the back of the Grade Select Button and clean the switch surface. Obtain a new gasket (part MP0862) and peel off the backing paper. With the adhesive side facing the back of the switch, thread the ribbon cables and connectors through the hole. Use the four locating pin features to correctly align the gasket. Press down the adhesive firmly.



## Retrofit G7 8 inch Wayne Vista 4V &amp; 3V with 4V door Wide (US) Installation Guide

- 24.** Insert the Fuel Grade Selector Buttons into the replacement door from the outside. Ensure they are replaced in the correct positions. Take particular care when feeding the ribbon cables through the 8mm holes that the ribbon cables do not get kinked or trapped under the button gasket. Depending on the model of button fitted, there may be one or two cables to feed through this hole.

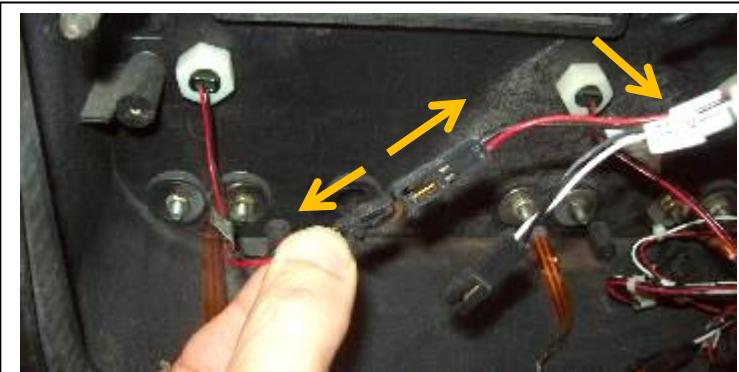


- 25.** From the inside of the door, refit the washers and nuts onto the Fuel Grade Selector Buttons. Tighten securely using a 11/32" socket.

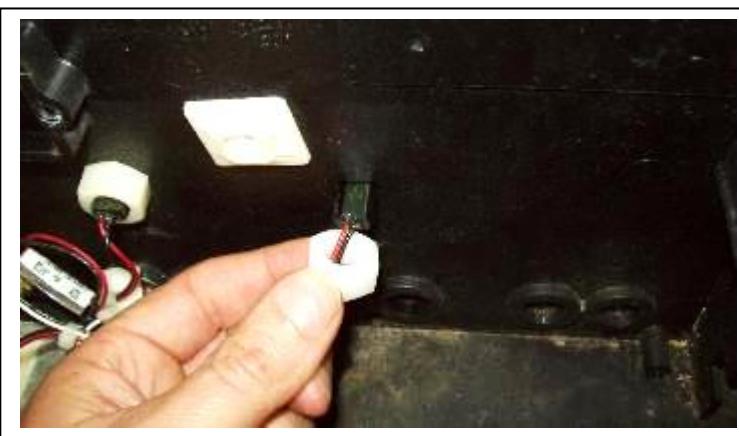


## Retrofit G7 8 inch Wayne Vista 4V &amp; 3V with 4V door Wide (US) Installation Guide

- 26.** If the Fuel Grade Selector Button fitted has only one ribbon cable fitted, it will also have a separate green dome shaped LED housing fitted above the button on the front of the door. In this case, for each green LED housing, inside the door disconnect the LED cable. Make a note of the LED cable number on the cable loom and the relative position of the LED housing for reconnection later.



- 27.** Remove the nylon retaining nut and discard. Remove and retain the green LED housing, taking care not to dislodge the LED and cable from the housing.



## Retrofit G7 8 inch Wayne Vista 4V &amp; 3V with 4V door Wide (US) Installation Guide

- 28.** Remove and discard the O-ring under each LED housing. Replace with the #012 O-ring supplied, part MP0869 from the gasket Kit GK0001.



- 29.** On the replacement door, undo and retain the nylon nut securing each plug to be replaced with an LED housing. Tap out and discard the plug. Leave all other plugs in place.



## Retrofit G7 8 inch Wayne Vista 4V &amp; 3V with 4V door Wide (US) Installation Guide

**30.** Insert the LED housing into the oval hole from the front and refit the nylon nut. Take care not to cross-thread. Do not over-tighten the nut.



Finger-tighten nut.



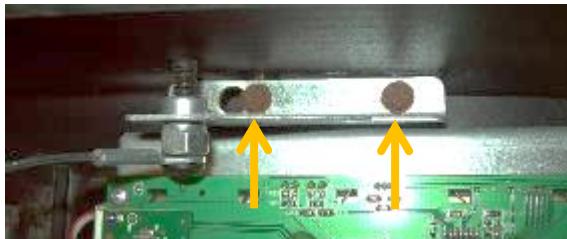
Separate LED housing



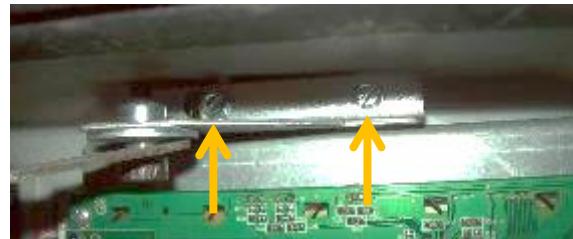
Fuel Grade Selector Button with two ribbon cables.  
The LED Plugs above the button are not removed with this  
type of Selector, as it has built in LEDs.

## Retrofit G7 8 inch Wayne Vista 4V &amp; 3V with 4V door Wide (US) Installation Guide

- 31.** To swap over the Door Stay assembly, on the original door remove and discard the two screws securing the Door Stay bracket using a  $\frac{1}{4}$ " nut driver or socket. Before removing, take note of the orientation of the bracket. The assembly may be either a tension cable type (Vista 3V) or a metal strap type (Vista 4V). Remove and retain the Door Stay Bracket assembly.

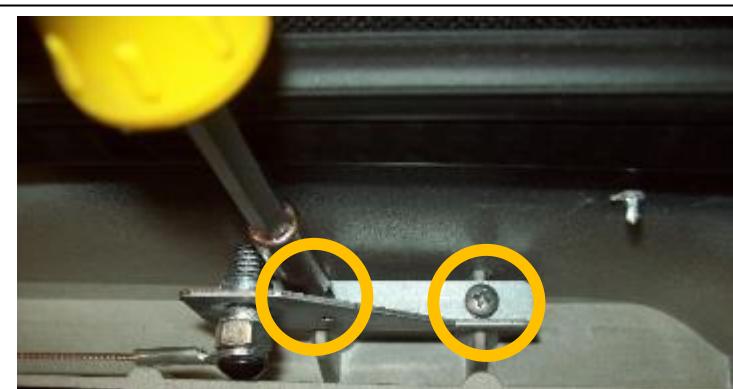


Tension Cable Type (Vista 3V dispenser converted to take a Vista 4V door)



Metal Strap Type (Vista 4V dispenser)

- 32.** To refit the Bracket assembly for the Door Stay onto the replacement door, attach with two M4X10 screws (MS0160) from the Fastener Kit using a Philips #2 screwdriver. Check orientation of the bracket and then tighten the screws securely.



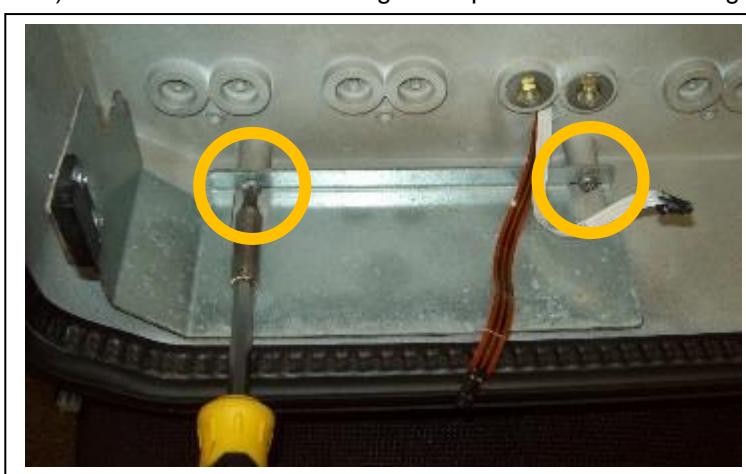
ABOVE: Tension Cable type shown from a Vista 3V converted to a Vista 4V door. For a Vista 4V, the same screws are used in the same location.

## Retrofit G7 8 inch Wayne Vista 4V &amp; 3V with 4V door Wide (US) Installation Guide

- 33.** If fitted, to swap over the Reed Switch Sensor Bracket, on the original door remove and discard the two screws securing the bracket using a  $\frac{1}{4}$ " nut driver or socket. Remove and retain the bracket.



- 34.** To refit the Reed Switch Sensor Bracket onto the replacement door, attach with two M4X10 screws (MS0160) from the Fastener Kit using a Philips #2 screwdriver. Tighten securely.

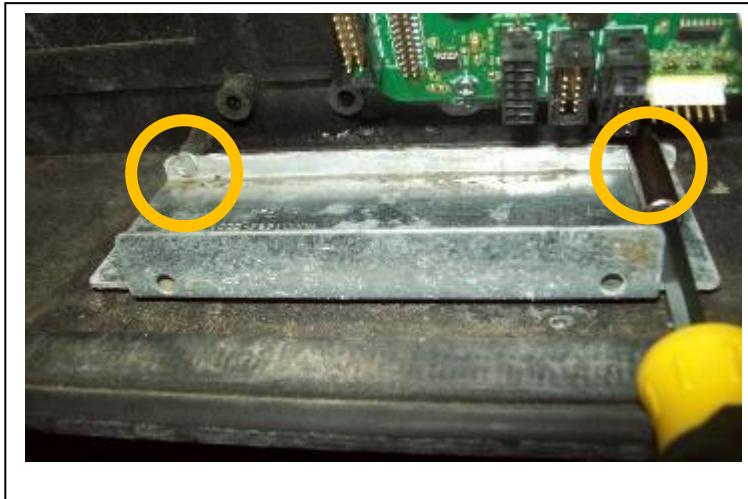


## Retrofit G7 8 inch Wayne Vista 4V &amp; 3V with 4V door Wide (US) Installation Guide

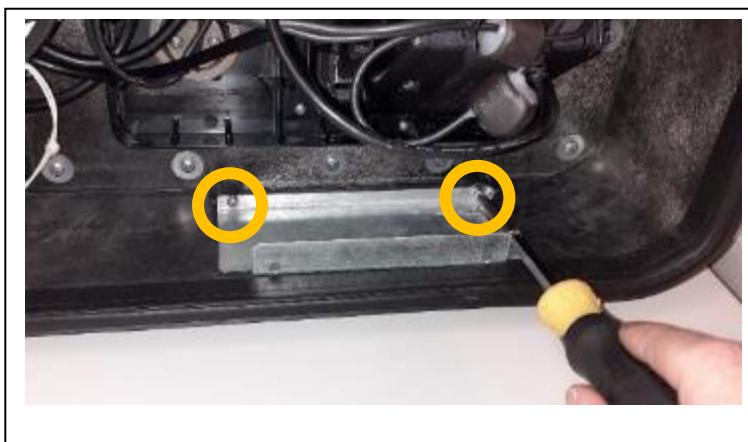
**35.** To swap over the Cable Tray Bracket, on the original door remove and discard any cable ties.

Remove and discard the two screws securing the bracket using a  $\frac{1}{4}$ " nut driver or socket.

Remove and retain the bracket.

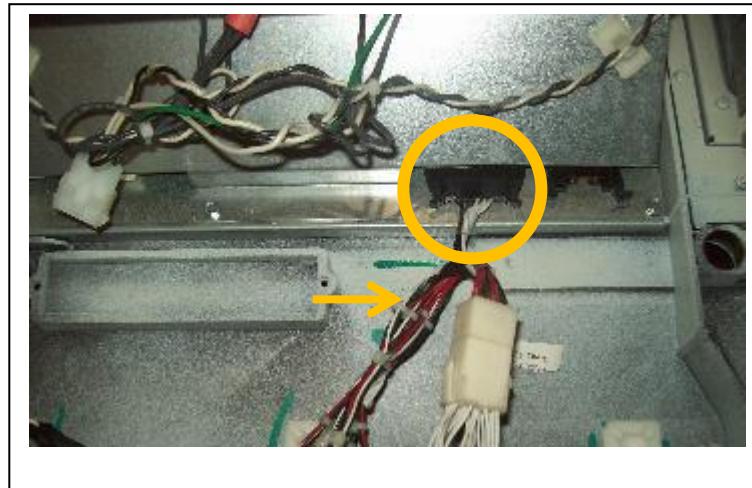


**36.** To refit the Cable Tray Bracket onto the replacement door, attach with two M3X10 screws (MS0148) from the Fastener Kit using a Philips #1 screwdriver. Tighten securely.

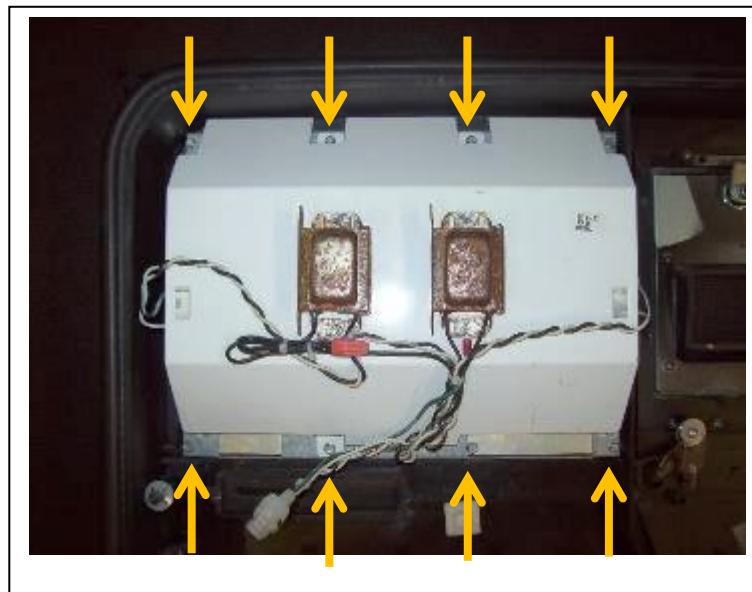


## Retrofit G7 8 inch Wayne Vista 4V &amp; 3V with 4V door Wide (US) Installation Guide

- 37.** To swap over the PPU Display Assembly, on the original door disconnect and retain the cable harness from the Fuel Grade Selector Switches. This harness will be refitted later.



- 38.** On the original door remove and discard the eight screws securing the assembly using a  $\frac{1}{4}$ " nut driver or socket. Remove and retain all parts of the PPU Display; the Back-Light assembly, PCBA Display assembly, Graphics Fascia Panel and Glass Window. Take care when removing and handling the glass window. It is possible that the glass may have become adhered to the window gasket. Clean the Glass Window and the Graphics Fascia Panel if necessary.

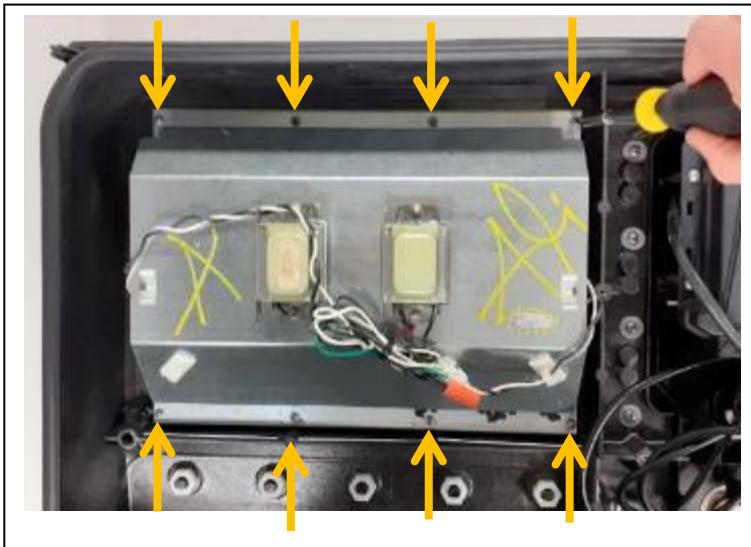


## Retrofit G7 8 inch Wayne Vista 4V &amp; 3V with 4V door Wide (US) Installation Guide

- 39.** To refit the PPU into the replacement door, place the PPU Gasket (MP0864) from the Gasket Kit into the gasket groove around the outside of the window opening.



- 40.** Refit all the PPU Display components in the reverse order; Glass Window, Graphics Fascia Panel, PCBA Display Assembly, and Back-Light Assembly. Screw down securely using eight self-tapping #4-20 screws with washers (MS0220) from the Fastener Kit. Ensure the PPU display is the correct way up on the outside and that the connectors on the inside are along the bottom edge.



## Retrofit G7 8 inch Wayne Vista 4V &amp; 3V with 4V door Wide (US) Installation Guide

- 41.** Remove the Door Locking Screw off the original door, with the Nylon Washer, and refit to the replacement door.

**RIGHT SIDE DOOR WITH PRINTER & TOTALISER DISPLAY:**

The following procedures apply to the Right Side Door:

- 42.** If an Attendant Call Button is fitted on the original Left Door, remove and retain the back nut and washer using a 3/4" (19mm) spanner. Remove and retain the button. Discard the cork sealing washer from under the button bezel. Take care to clean the sealing faces and to remove any remaining fragments of the cork washer.



- 43.** Obtain the Right Door Retrofit Kit (RP00045-XX). Carefully place the assembly face down on the panel beater stand (or similar protected work surfaces).

Note: during the fit-out process the door panel may need to be turned over several times to access either the front or the back of the door.



Right Door Retrofit Kit (RP00045-XX)

- 44.** If an Attendant Call Button is to be refitted, use a 5/8" or 15 mm spade drill to drill out the Attendant Call Button hole, using the small drill feature in the plastic as a location guide for the drill position.



**WARNING:** Electric power tools are not permitted on the forecourt. Either use a manual drill, a pneumatic drill, or work on the replacement door outside of the hazardous location.

## Retrofit G7 8 inch Wayne Vista 4V &amp; 3V with 4V door Wide (US) Installation Guide

- 45.** Use a sharp knife or deburring tool to carefully clean up the outside edges of the hole to be free from any raised edges. Sweep out all swarf from the inside and outside of the door.

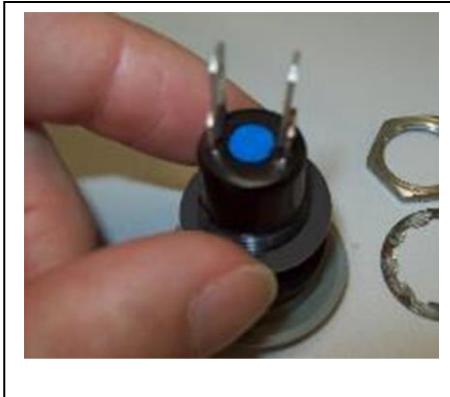


- 46.** Apply Decal DL0341 (or equivalent part) to the front of the replacement door. Align parallel to adjacent door edges. Rub down firmly.



## Retrofit G7 8 inch Wayne Vista 4V &amp; 3V with 4V door Wide (US) Installation Guide

- 47.** Fit the replacement rubber sealing washer MW0051 from the Gasket Kit under the bezel of the Attendant Call Button. Fit the button into the replacement door over top of the decal from the front of the door. Refit the Back Nut and Washer on the inside and tighten.



- 48.** Obtain the Printer Assembly EZ0649 and disconnect the two black cables connected to the rear of the printer, noting which ends were connected to which sockets. Retain these cables for installation later. Fit the Printer over the top hook features on the Right Door and then align the two bottom tabs and fit two MS0160 screws from the Fastener Kit using a #2 Phillips screwdriver.

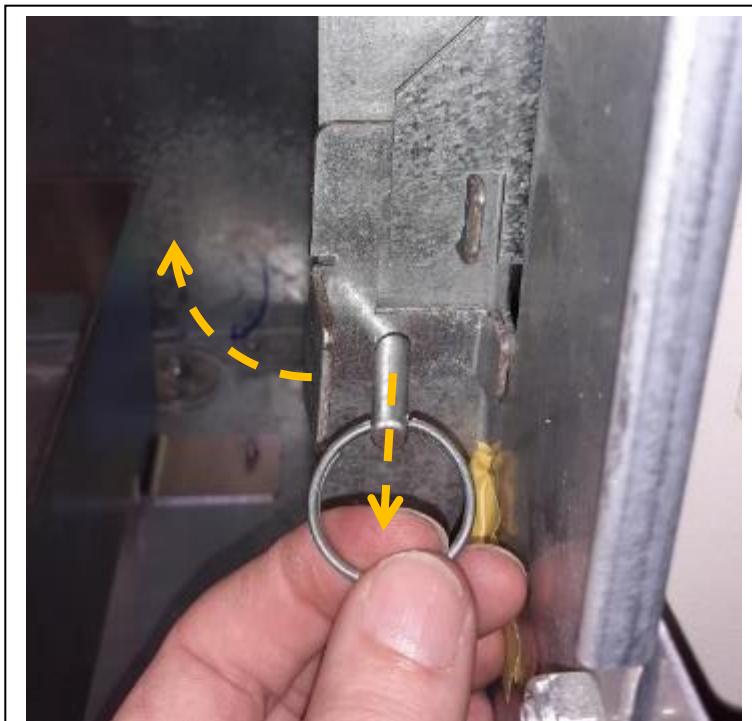


Disconnect Printer cables. Attach Printer to Right Door.



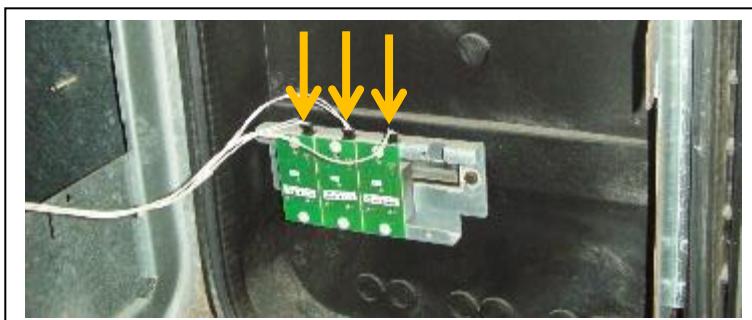
## Retrofit G7 8 inch Wayne Vista 4V &amp; 3V with 4V door Wide (US) Installation Guide

- 49.** Unlatch the original Right Hand Door by lifting the lever inside the cabinet (arrowed). If the pump is a 4V, first pull out the Latch Pin. Retain the Latch Pin to be refitted later.



Vista 4V Latch Pin, to be retained

- 50.** If fitted to the right-hand door, take a note of which cable is connected to which Totalizer Display. Label these connections. Trace the cables to the CPU Board and also label the connections at that end. Disconnect the cables at both ends, remove and retain the cables.



Label, disconnect, temporarily remove and retain any Totalizer cables. Three are fitted in this example.

## Retrofit G7 8 inch Wayne Vista 4V &amp; 3V with 4V door Wide (US) Installation Guide

**51.** Disconnect the door stay cable out of the keyhole slot by moving it upwards and then out.



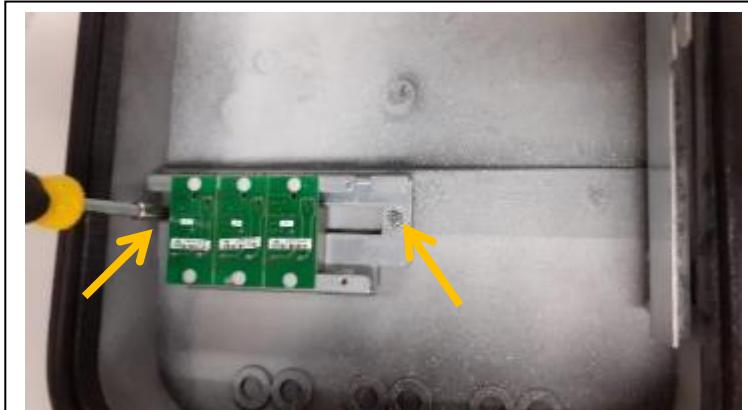
Disconnect Cable Door Stay.

**52.** Remove the Top Right Hinge Bracket by undoing the nuts from the inside. For a Vista 3V dispenser, use a 3/8" socket. For a Vista 4V dispenser use a 7/16" socket. Remove any silicone sealant that may be present from around the Nuts. Take note if the silicone sealant is disturbed during the bracket removal, and if so, this will need to be remedied at Step **126**. Support the weight of the door when the Nuts are loose, lift out the door out and place to one side. Finish undoing the Nuts and discard the Bracket and the Nuts.



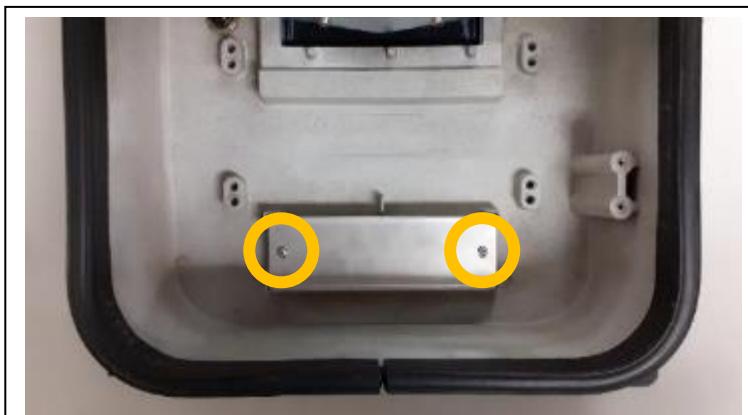
## Retrofit G7 8 inch Wayne Vista 4V &amp; 3V with 4V door Wide (US) Installation Guide

- 53.** If a Totalizer Display is fitted, remove and discard the two screws retaining the Totalizer Bracket using a  $\frac{1}{4}$ " nut driver or socket. Remove and retain the Totalizer Bracket and Displays.



Remove and discard the two screws retaining the bracket.

- 54.** To refit the Totalizer onto the replacement door, remove and retain the two M3X10 screws holding down the Totalizer Blank Panel using a #1 Philips screwdriver. Discard the metal Blank Panel.



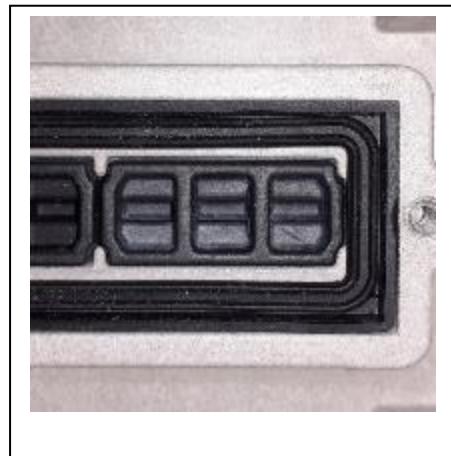
If a Totalizer is to be fitted, remove Blanking Plate and discard, otherwise leave the Blanking Plate in place.

## Retrofit G7 8 inch Wayne Vista 4V &amp; 3V with 4V door Wide (US) Installation Guide

**55.** Lift out the window and gasket and retain. Make a note of the orientation of the gasket as it will be replaced the same way around in the next Step. Remove and discard the silicone Totalizer Plug parts as needed to match the location of the Totalizer Displays.

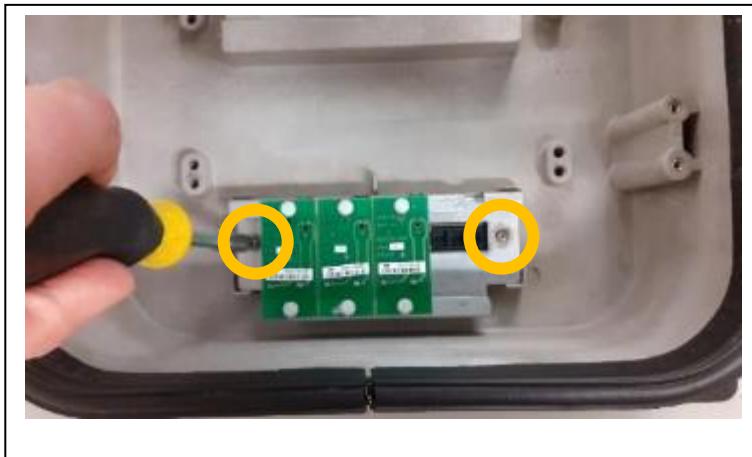


**56.** Replace the Totalizer Window and Gasket. Ensure the Gasket facing the same way around as how it was found in the previous Step. Place the Glass Window back into the pocket last.



## Retrofit G7 8 inch Wayne Vista 4V &amp; 3V with 4V door Wide (US) Installation Guide

- 57.** Place the Totalizer Bracket and Display assembly into the replacement door and refit the M3 screws.  
Tighten down with a #1 Philips screwdriver.



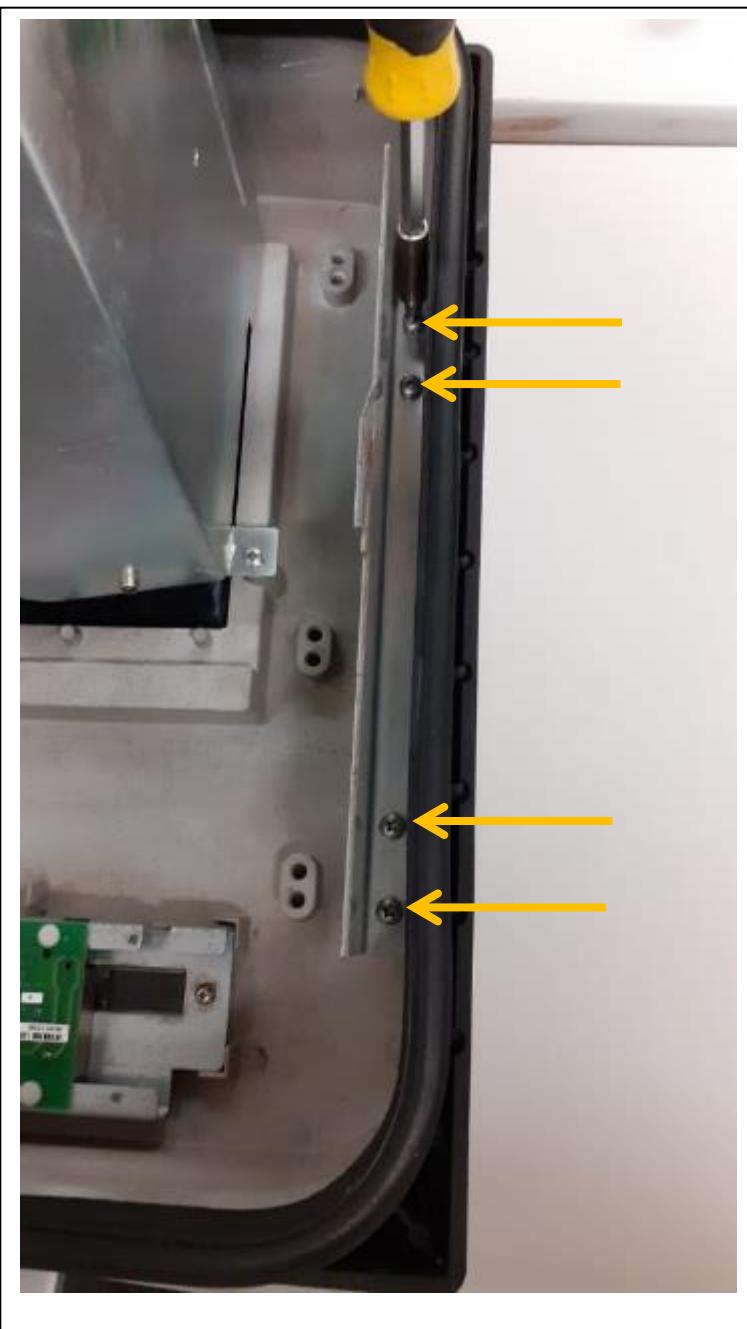
## Retrofit G7 8 inch Wayne Vista 4V &amp; 3V with 4V door Wide (US) Installation Guide

- 58.** On the original Right Hand door, remove and discard the four screws attaching the Latch Bracket using a  $\frac{1}{4}$ " socket or nut driver. Retain the bracket. Take a note of the orientation of the Latch Bracket relative to the door.



## Retrofit G7 8 inch Wayne Vista 4V &amp; 3V with 4V door Wide (US) Installation Guide

- 59.** Reattach the Latch Bracket to the replacement Right Door using four M4X10 MS0160 screws from the Fastener Kit.



## Retrofit G7 8 inch Wayne Vista 4V &amp; 3V with 4V door Wide (US) Installation Guide

**VISTA 3V SPECIFIC PROCEDURES:**

If the dispenser is a Vista 3V model (i.e. kit RF00016-XX), continue with the following procedures:

If the dispenser is a Vista 4V model (i.e. kit RF00015-XX), skip to Step 78

**60.** Determine the correct printer variant:



88543 Printer



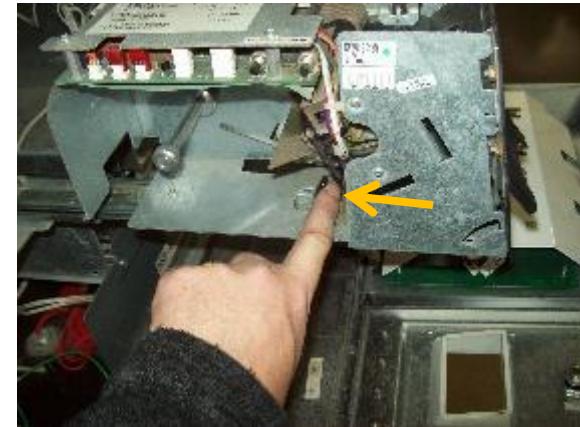
RO2 Printer



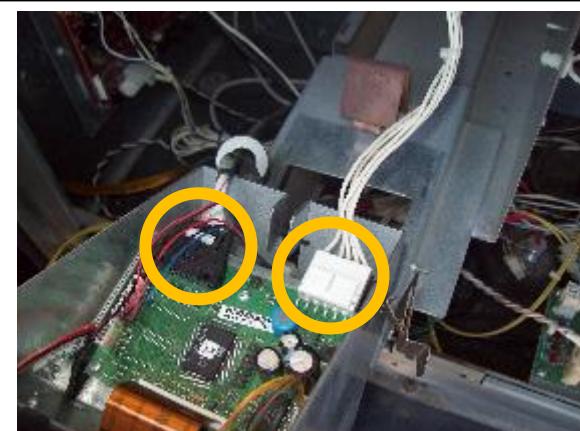
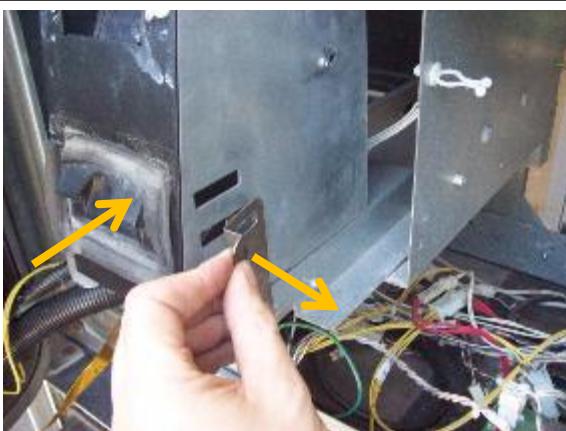
DW10 / DW15 Printer

## Retrofit G7 8 inch Wayne Vista 4V &amp; 3V with 4V door Wide (US) Installation Guide

- 61.** For an 88543 Printer, pull the printer all the way forward. Disconnect the two cables at the rear and then disconnect the printer from the drawer slide rail using the side tab lever. Remove and discard the Printer and the Cables (The black cable should have been previously removed from the door trunking. Trace the white cable and disconnect from the fuse board).



- 62.** For an RO2 or a DW10 / DW15 Printer, push the printer back against the spring to allow the Side Clip to be disengaged out of the Printer Body. Once unclipped, pull the Printer forwards and off the Mounting Bracket and tip forward to reveal the printer cables. Disconnect the Printer Cables and then remove and discard the Printer and the Cables (The black cable should have been previously removed from the door trunking. Trace the white cable and disconnect from the fuse board).

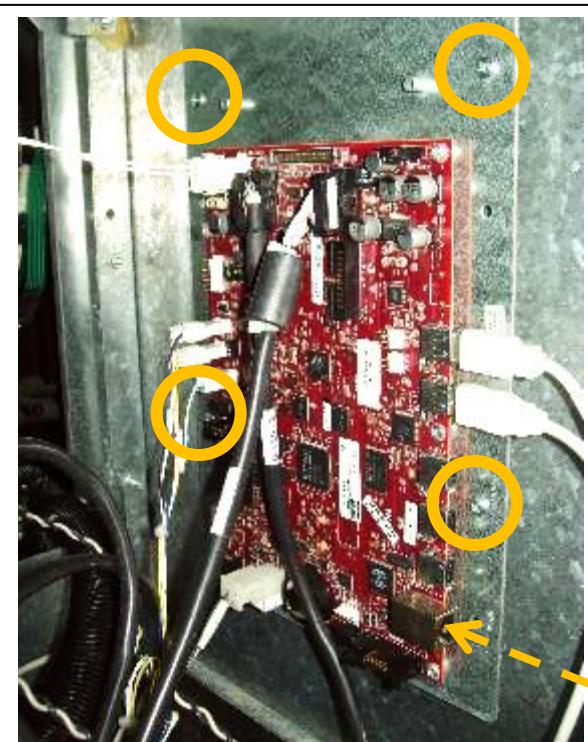


## Retrofit G7 8 inch Wayne Vista 4V &amp; 3V with 4V door Wide (US) Installation Guide

**63.** To remove the Vista 3V Printer Bracket, the 4V Door Adapter Plates on BOTH sides of the dispenser need to be removed. This cannot happen until the doors on both sides of the dispenser have also been removed. This means Steps **4** through to **62** now needs to be repeated for the other side of the dispenser. For a single sided dispenser, simply remove the opposite side doors, otherwise repeat all the steps in full.

**64. REMOVING Q-CAT COMMUNICATIONS BOARD** (if you are working on Side B, do this on the Q-CAT board on the other side of the dispenser):

In a Vista 3V dispenser, if the red or blue Q-Cat Communications Board is fitted on the side of the dispenser cabinet, this needs to be removed before removing the doors and Adapter Plates. Disconnect the Ethernet cable (dashed arrow) and store the cable inside the cabinet. Mark which side the cable belongs to (side A or B) based on the closest Q-CAT board to the left door on that side. Disconnect and discard all remaining cables still connected to the board. Remove the screws holding the mounting plate in place. Discard the plate, board and screws.

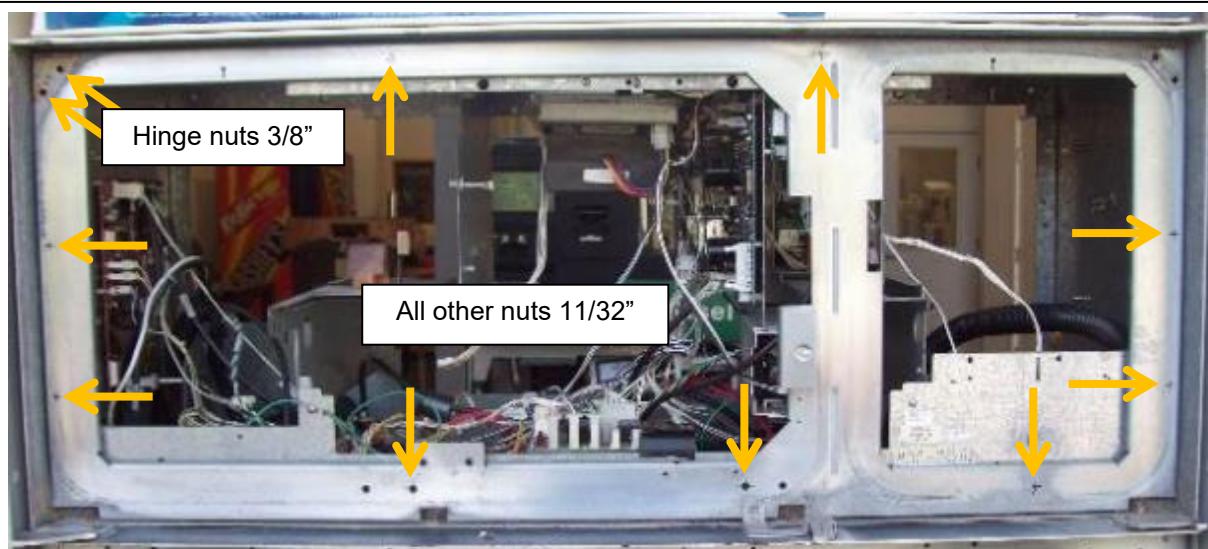


3V Wide Frame example shown.  
Screw locations circled.  
Ethernet cable location, dashed arrow.

## Retrofit G7 8 inch Wayne Vista 4V &amp; 3V with 4V door Wide (US) Installation Guide

**65.** To remove the Adapter Plates, a series of nuts and screws need to be removed. After undoing all fasteners, retain the Adapter Plates, the remaining Top Left Hinge brackets, and all screws and nuts for refitting later.

Some fasteners may be used to secure grounding cables. If this is the case, temporarily disconnect these grounding cables and make a note of their locations so they can be reconnected later.



Locations of 4V Adapter Plate nuts and screws on a Vista 3V Wide Frame.

**66.** If fitted, the security tamper reed switch cables will also need to be disconnected. This is located below the door screw bracket (see image right). Label this cable for reconnection later.

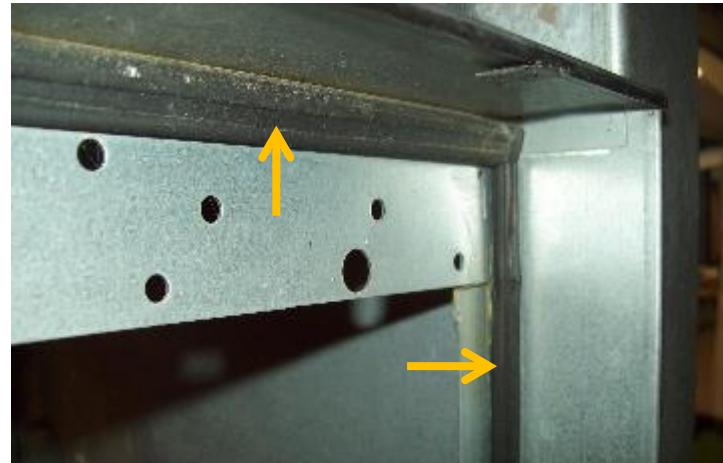
Repeat Steps **65 & 66** for both sides of the dispenser.



If fitted, disconnect and label the cable to the Security Reed Switch sensor. It will be reconnected later.

## Retrofit G7 8 inch Wayne Vista 4V &amp; 3V with 4V door Wide (US) Installation Guide

- 67.** Inspect the condition of the gasket located behind the Adapter Plate. If it is damaged stop the installation and contact Invenco or an Invenco Representative. Replace with a UL recognized gasket (ccn JMLU2) suitable for UL 50E continuous compression application for an enclosure Type 3R with similar dimensions and durometer. Repeat this step on both sides of the dispenser.

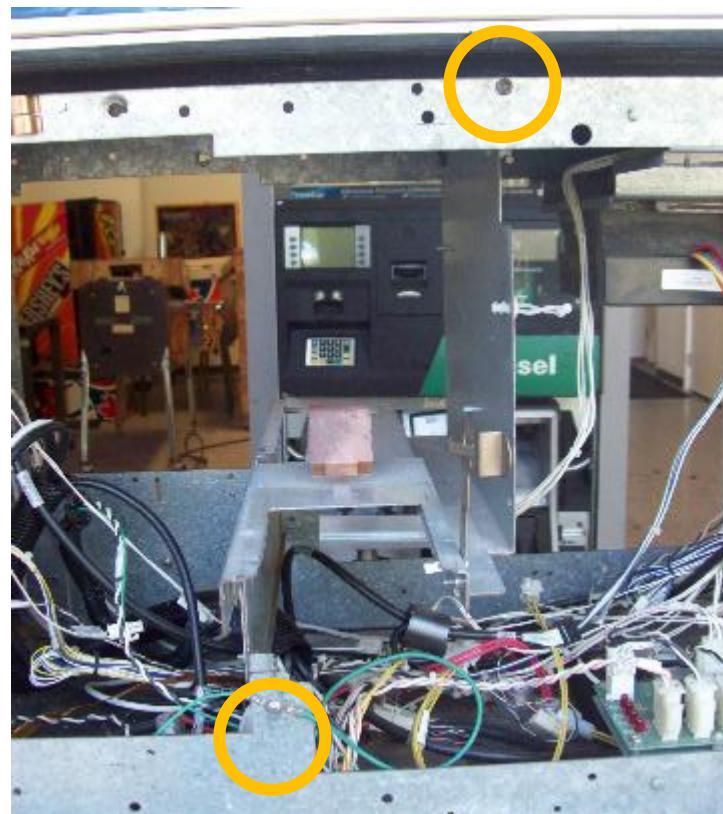


- 68.** Each Printer Bracket is held on with four screws, two on each side. One bracket is used to mount electronic components. Note the connection position and routing of all remaining cables for future reconnection. Label and disconnect only those cables necessary to remove the bracket from the dispenser.

Cables between components mounted on the bracket are to be left connected at this point.

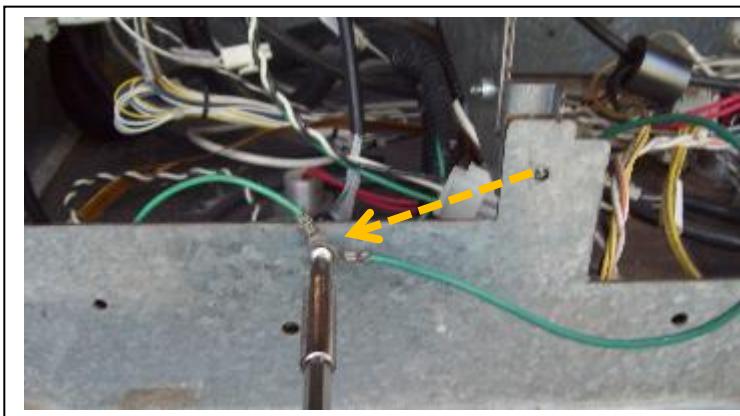
Temporarily store the disconnected cables inside the dispenser cabinet. Remove and retain the bracket with electronic components and its associated screws. Discard the other Printer Bracket that is without electronic components.

This step may be skipped if you are installing Side B.





- 69.** If the Printer Bracket screws are also used to secure grounding cables, then the grounding cables should be relocated to an adjacent mounting hole located clear of where the Adapter Plate is mounted. Fasten using one of the surplus self-tapping screws from the unused Printer Bracket. Any remaining screws can now be discarded. Repeat this step on both sides of the dispenser.



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Revision Number/Security level	R09 S2

## Retrofit G7 8 inch Wayne Vista 4V &amp; 3V with 4V door Wide (US) Installation Guide

- 70.** The electronic components on the original Printer Bracket are now to be transferred to a new Electronics Bracket assembly. Obtain Assembly EZ0633.

This Retro-Fit Kit does not include the replacement electronics bracket. When this Retro-Fit Kit is being installed, a replacement electronics bracket MUST be installed:

Obtain the new Internal Electronics Panel EZ0633 from the UL Listed by Report Retrofit Kit Part Number kit RF00086-XX (Retrofit Electronics Bracket for Wayne Vista 3V-4V Wide).

Refer to the installation instructions supplied with that Kit (DCV-00602), before proceeding to the next step.

If you are installing Side B of a Vista 3V, you may skip to **SECTION 5 Installation Procedure**.

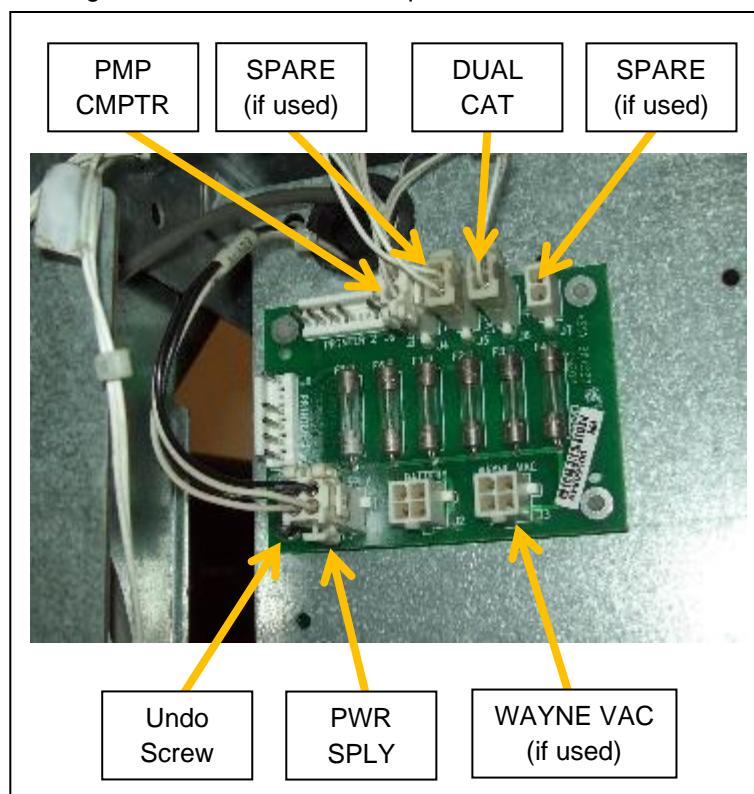


EZ0633 Wide Frame Electronics Bracket

## Retrofit G7 8 inch Wayne Vista 4V &amp; 3V with 4V door Wide (US) Installation Guide

**71. TRANSFER OF FUSE BOARD, BUZZER AND CABLE GROMMET:**

On the Fuse Board, disconnect the following cables (if present) and note their connection positions for refitting later. Label cables as required.



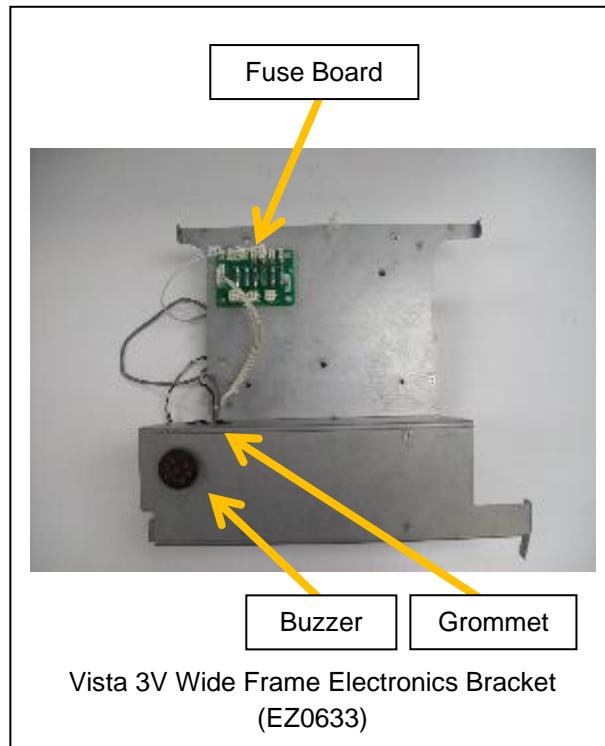
Undo and retain the screw on the bottom left corner of the board and remove the board from the original panel. Any plastic mounting stand-offs that stay on the removed board can be discarded. Re-attach the Fuse Board to the replacement Electronics Bracket using the retained screw, and snap-fit the board onto the new plastic stand-offs on the other three corners.

Unscrew the Buzzer bezel ring off the original panel and transfer the Buzzer to the replacement Electronics Bracket. Note the cable connection location on the Dual-CAT CPU Board for later reconnection. Screw the bezel ring back on.

Un-thread any remaining cables going through the snap-fit plastic cable Grommet in the original panel, remove the Grommet and snap-fit it into the replacement Electronics Bracket.

## Retrofit G7 8 inch Wayne Vista 4V &amp; 3V with 4V door Wide (US) Installation Guide

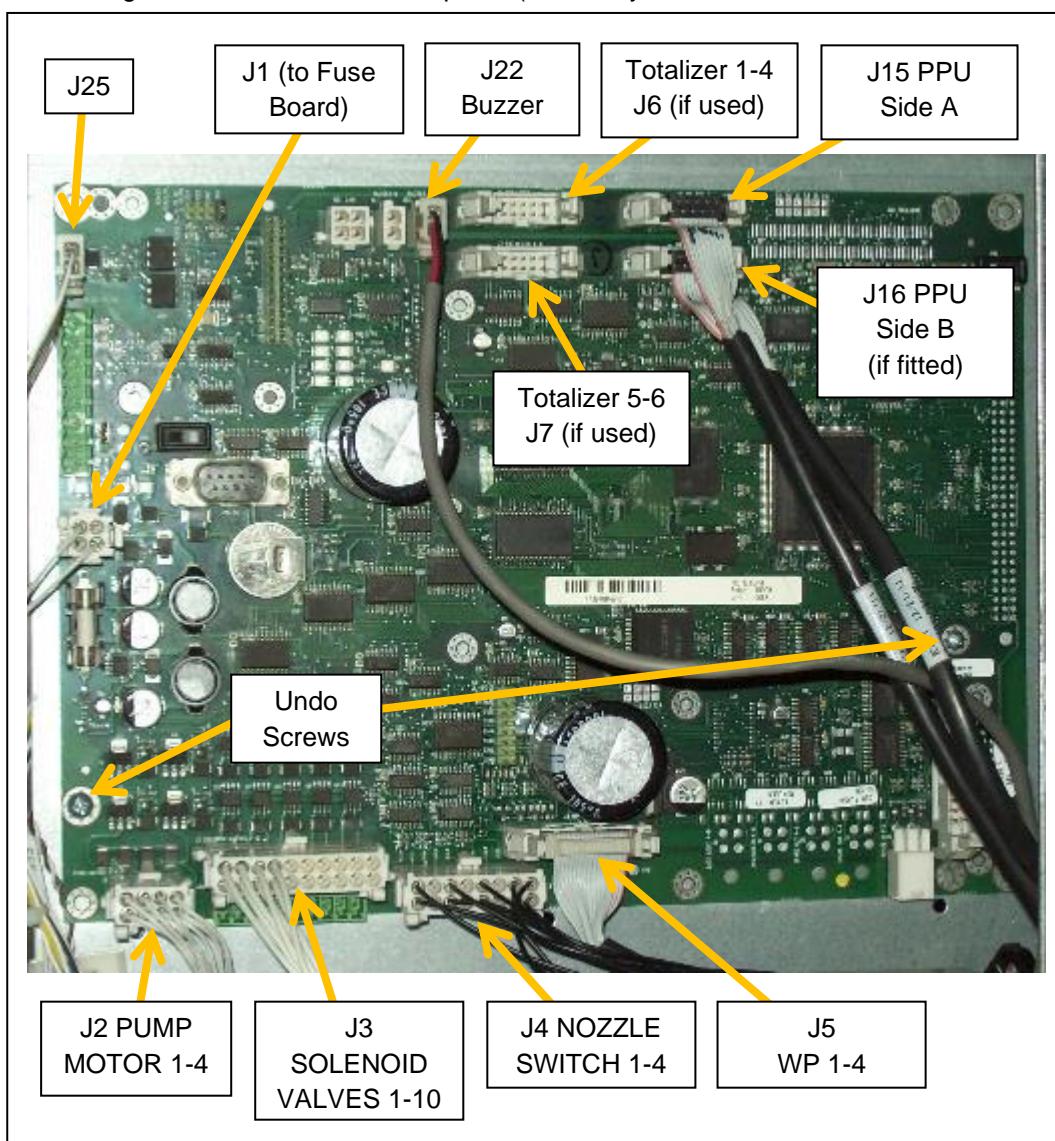
Please refer to the following images for orientation and position of the modules.



## Retrofit G7 8 inch Wayne Vista 4V & 3V with 4V door Wide (US) Installation Guide

### 72. TRANSFER OF DUAL-CAT CPU BOARD, POWER SUPPLY UNIT AND WAYNE-VAC BOARD

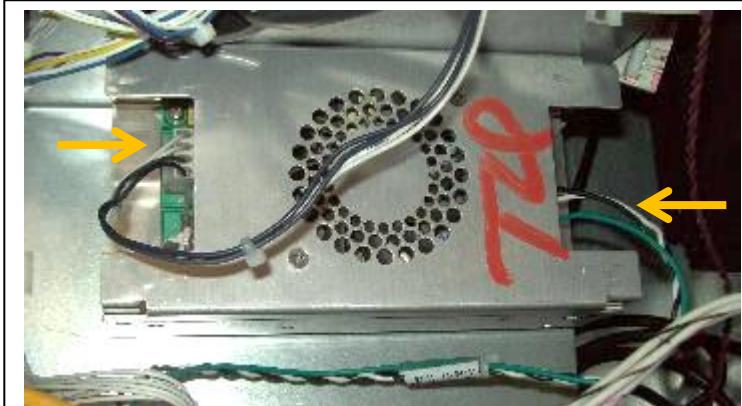
On the Dual-CAT CPU Board, disconnect all remaining cables and note their connection positions for refitting later. Label cables as required (Note: Any Totalizer cables were removed in Step 50).



Undo and retain the two screws mounting the board and remove the board from the original panel. Any plastic mounting stand-offs that stay on the removed board can be discarded. Re-attach the Dual-CAT CPU Board onto the replacement Electronics Bracket using the retained screws, and snap-fit the board onto the new plastic stand-offs. NOTE: The two screws are different sizes and cannot swap position on the board.

Disconnect and label the two cables on the Power Supply Unit (one on each end) and retain the cables. Undo and retain the four screws used to mount the Power Supply Unit onto the original bracket. Remove the Power Supply Unit and set to one side with the retained screws to be refitted shortly.

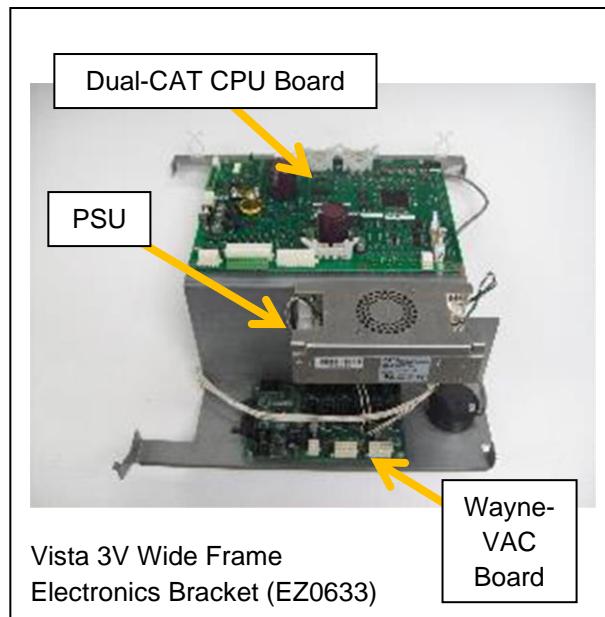
## Retrofit G7 8 inch Wayne Vista 4V &amp; 3V with 4V door Wide (US) Installation Guide



Label cables to be re-fitted to the Power Supply Unit.

If a Wayne-Vac board (Max-Vac board) is fitted, disconnect all cables and note their connection positions for refitting later. Label cables as required. Undo and retain the screw mounting the board onto the original panel. Any plastic mounting stand-offs that stay on the removed board can be discarded. Mount the Wayne-Vac board onto the replacement Electronics Bracket using the retained screw, and snap-fit the board onto the new plastic stand-offs. NOTE: The Wayne-Vac board must be refitted to the replacement Electronics Board before refitting the Power Supply Unit so that the screw is accessible

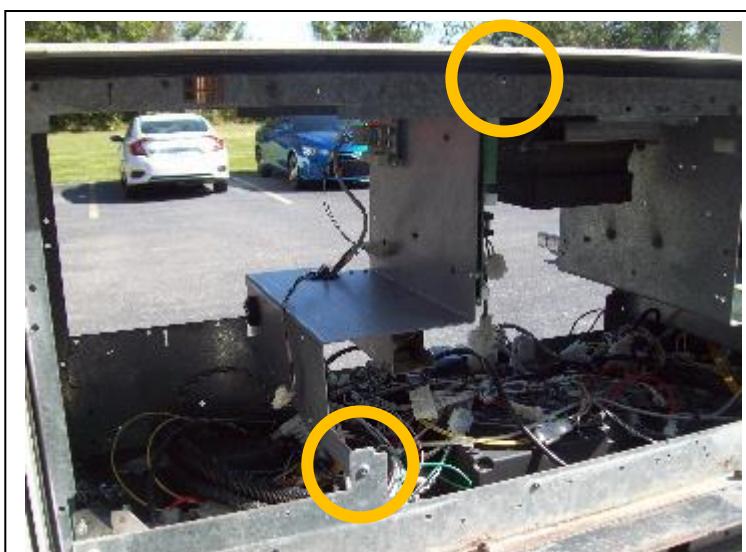
Mount the Power Supply Unit onto the replacement Electronics Bracket using the retained four screws. Ensure that the circular pattern of fan holes faces outwards away from the bracket. Please refer to the following images for orientation and position of the modules.



**73.** Before fitting the Replacement Electronics Bracket back into the dispenser, for easiest access refit any cables connecting between the boards and components mounted onto the bracket now. Tidy cables into the plastic twist cable tidies already supplied with the bracket, or through the snap-fit cable grommet.

**74. REPLACE ELECTRONICS BRACKET.**

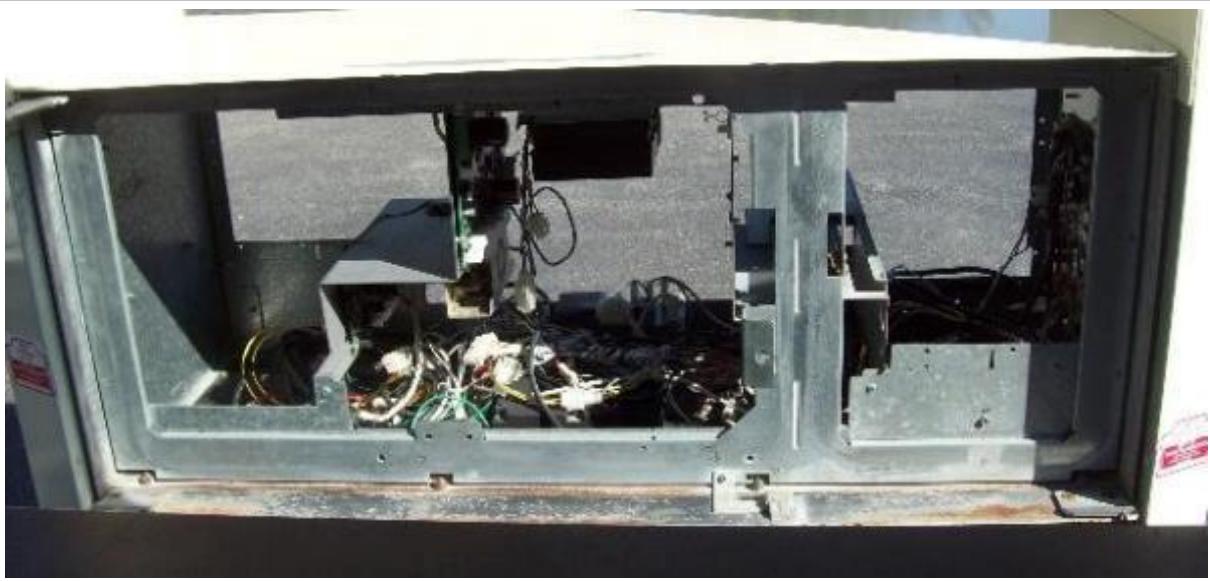
Install the replacement Electronics Bracket back into the dispenser into the same location the original Printer Bracket was removed from, using the same four mounting screws.



## Retrofit G7 8 inch Wayne Vista 4V &amp; 3V with 4V door Wide (US) Installation Guide

**75.** Examine the Adapter Plate assembly for any corrosion build up which may affect sealing.

Remove any corrosion by buffing the plate using a scotch-brite pad or similar. Reattach the 4V Adapter Plate assembly and Hinge Bracket using the same nuts and screws removed earlier. Leave the Hinge Bracket nuts loose to allow re-attachment of the door. Reconnect any grounding cables disconnected earlier back into the same locations as noted, using the same screws and nuts. Repeat this step on both sides of the dispenser.



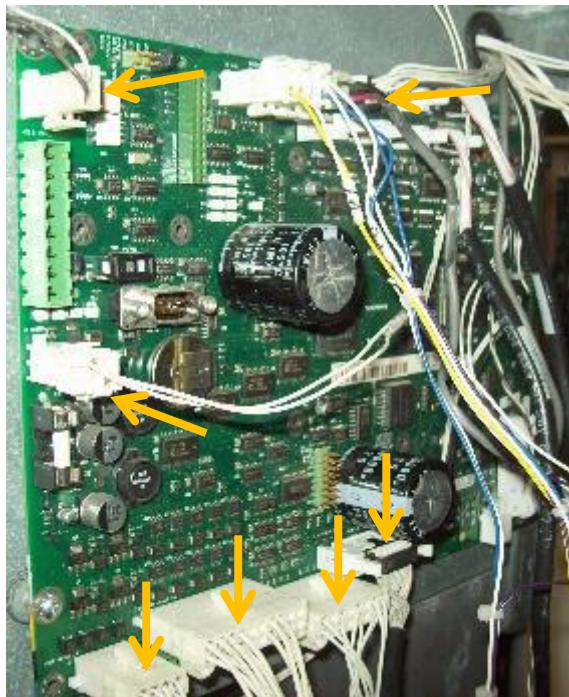
**76.** If fitted, reconnect the cable to the Security Reed Switch. Repeat this step for both sides of the dispenser.



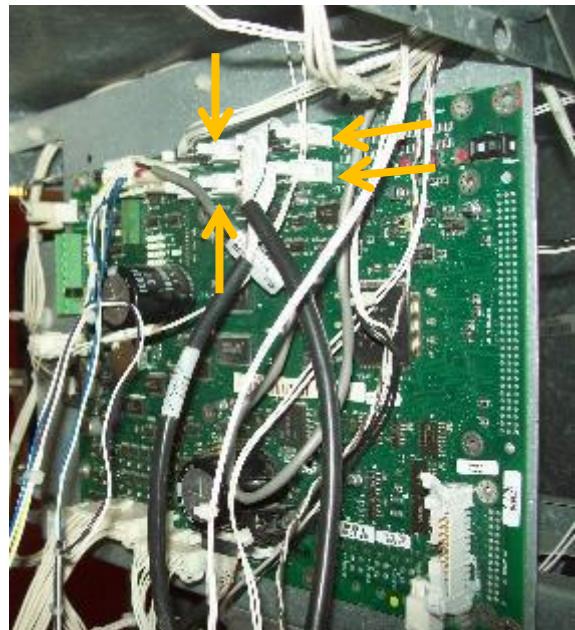
If fitted, reconnect cable to Security Reed Switch.

## Retrofit G7 8 inch Wayne Vista 4V &amp; 3V with 4V door Wide (US) Installation Guide

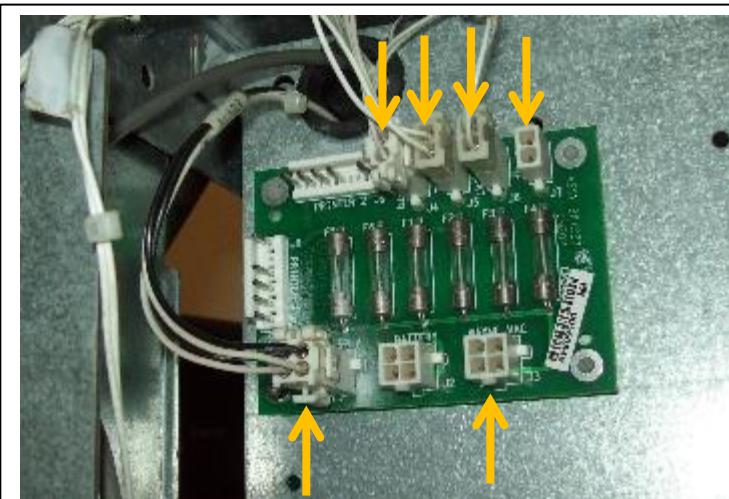
- 77.** Reconnect all remaining cables disconnected off the original Printer Bracket back onto the same electronic boards now fitted on the replacement Electronics Bracket. Once all reconnections are completed, skip to SECTION 5.



Cable Reconnections



Cable Reconnections

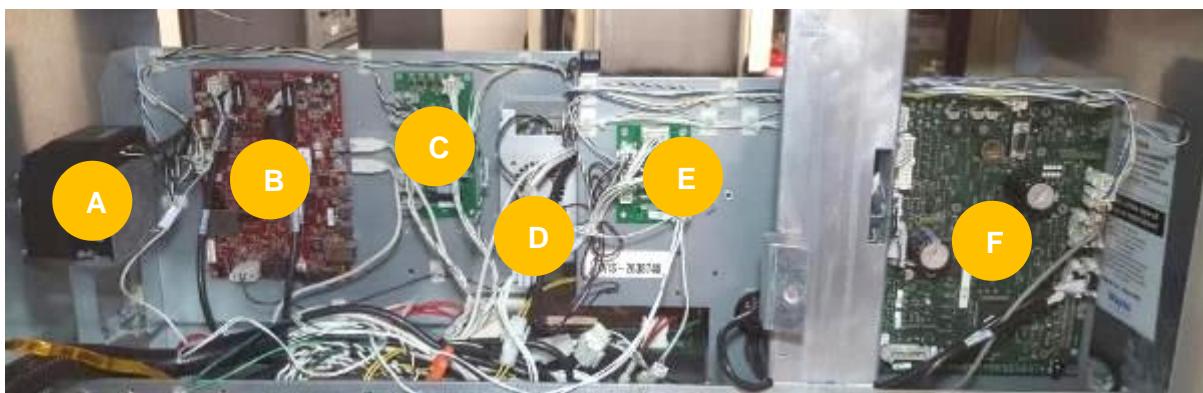


Cable Reconnections

**VISTA 4V SPECIFIC PROCEDURES:**

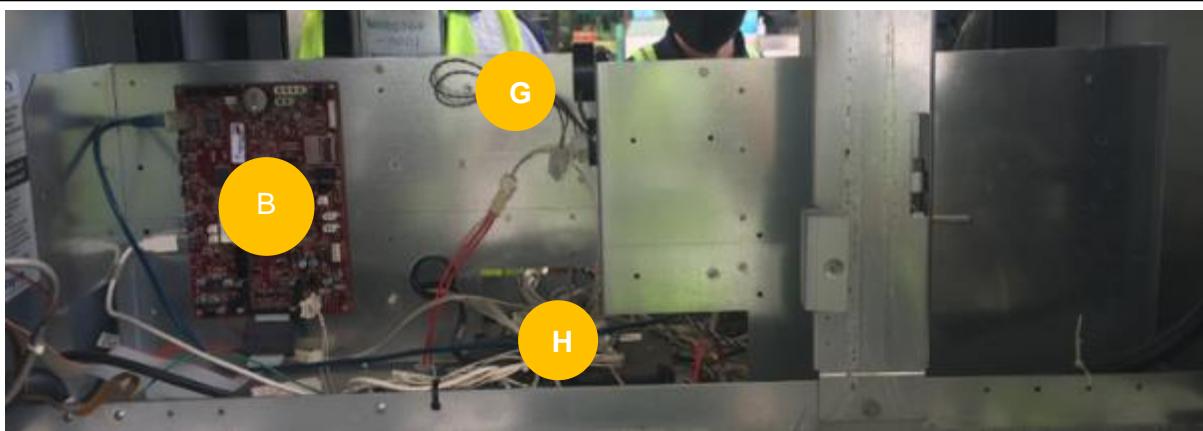
If the dispenser is a Vista 3V model (i.e. kit RF00016-XX), skip to **Section 5 Installation Procedure**. If the dispenser is a Vista 4V model (i.e. kit RF00015-XX), and you are installing Side A, continue with the following step:

If you are installing Side B, skip to **SECTION 5 Installation Procedure**.

**78. REMOVING THE INTERNAL ELECTRONICS PANEL:**

Internal Electronics Panel – Front View

A: Heater. B: Q-CAT Board. C: Mains Voltage Relay Board. D: Low Voltage DC Power Supply.  
E: Fuse Board. F: CPU Board.



Internal Electronics Panel – Rear View

B: Q-CAT board. G: Buzzer. H: Mains Voltage Power Supply.

This internal panel needs to be removed from the cabinet, with all electronic boards and hardware still attached. Access from both sides of the pump will be required.

**79. CABLE DISCONNECTIONS:**

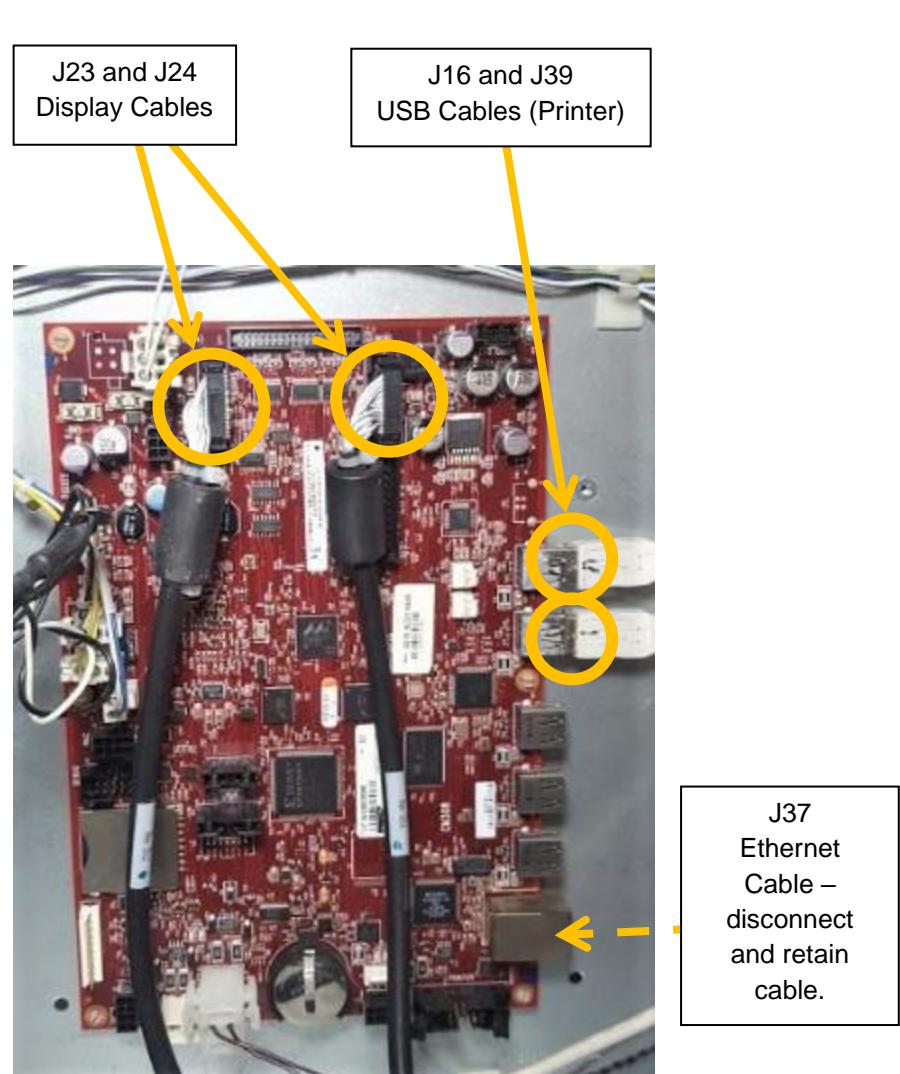
Disconnect all cables that connect components mounted on the panel with any devices or connections elsewhere in the pump. This is to allow the panel to be removed from the pump cabinet. Do not disconnect any cables between components mounted on the panel itself at this stage. Label cables as needed for reconnection later.

With reference to the labelled photographs above:



A: Heater (if present). No cables will be disconnected from the heater at this stage.

## Retrofit G7 8 inch Wayne Vista 4V &amp; 3V with 4V door Wide (US) Installation Guide

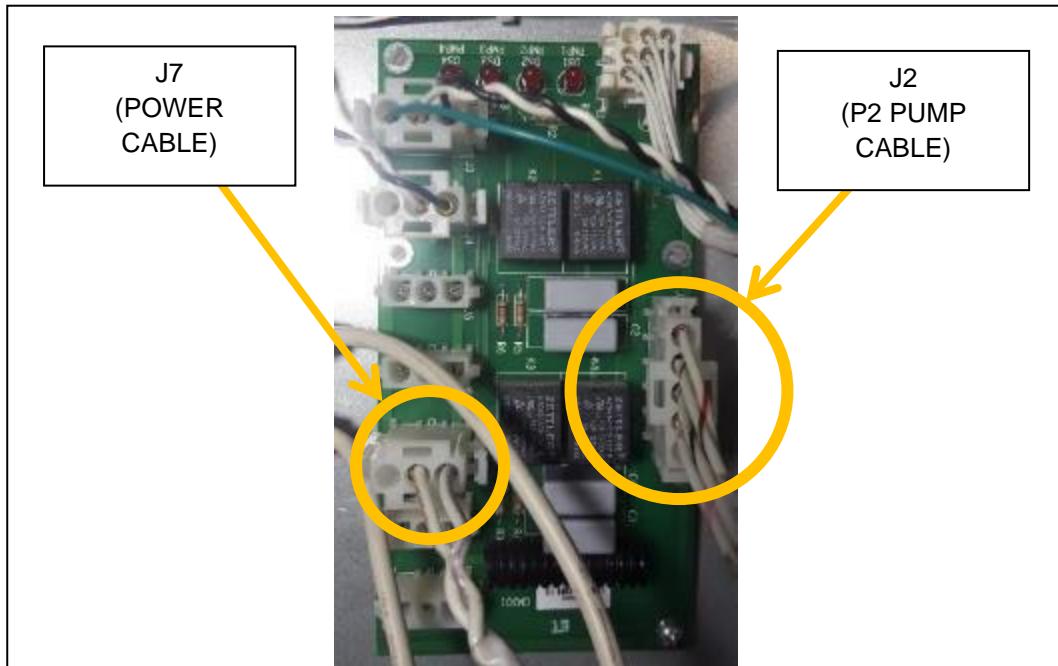


B: Q-CAT Boards (applies to each of the two Q-CAT boards). Disconnect the four cables circled. These cables can be removed from the cable trunking and discarded.

Disconnect the Ethernet Cable (dashed arrow) and store the cable in the pump cabinet. Mark which side the cable belongs to (side A or B) based on the closest Q-CAT board to the left door on that side. Make a note of any cable ties that need to be cut to achieve this.

Any cable ties that are cut will need to be replaced later. Cables may need to be passed through the cable grommet in the middle of the panel.

## Retrofit G7 8 inch Wayne Vista 4V &amp; 3V with 4V door Wide (US) Installation Guide

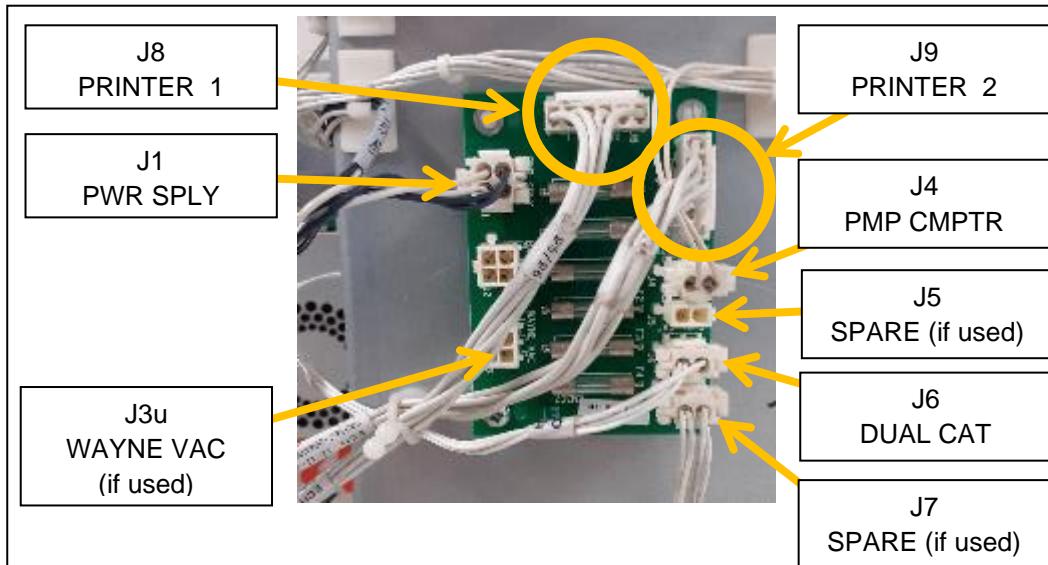


C: Mains Voltage Relay Board. Disconnect the two circled cables.  
Label the cables as they will be reconnected later.

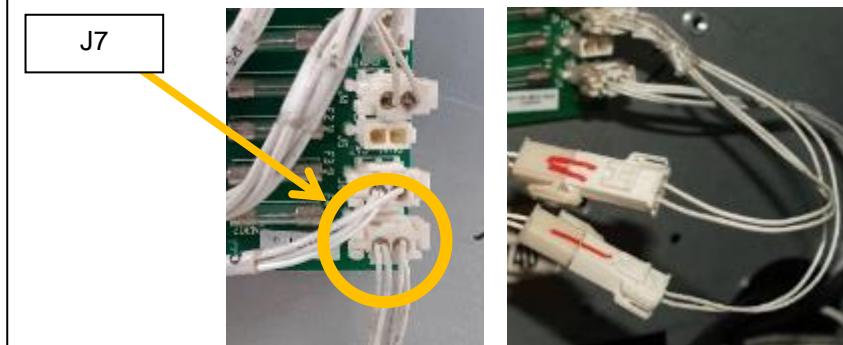


D: Low Voltage DC Power Supply. No cables will be disconnected from the Power Supply at this stage.

## Retrofit G7 8 inch Wayne Vista 4V &amp; 3V with 4V door Wide (US) Installation Guide



E: Fuse Board. The two Printer cables circled should have already been removed. If not, they can now be removed from the cable trunking and discarded. Make a note of any cable ties that need to be cut to do this. Any cable ties that are cut will need to be replaced later. Cables may need to be passed through the cable grommet in the middle of the panel.

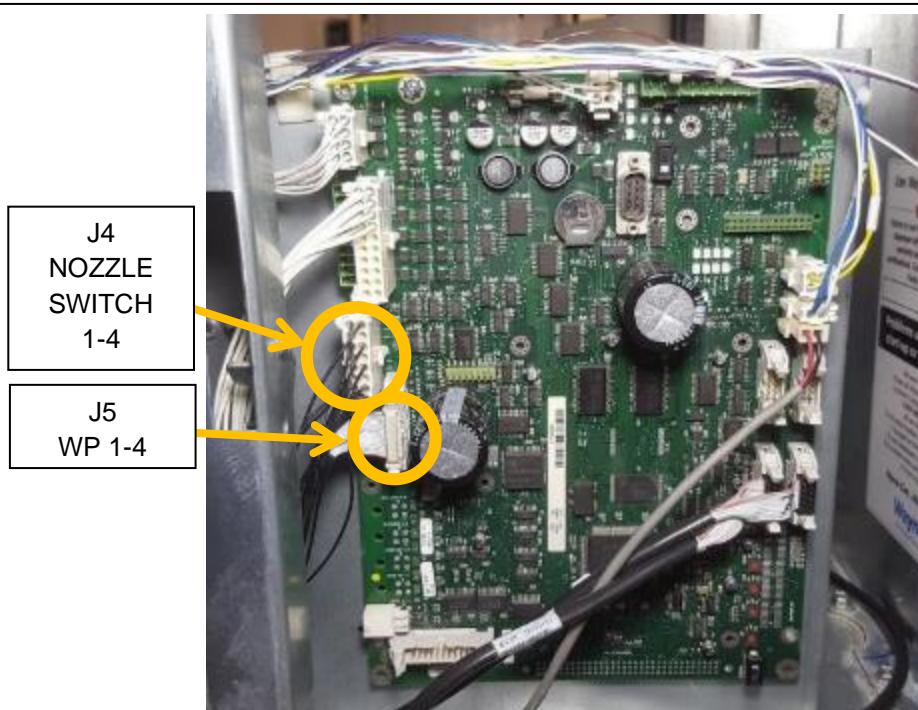


Trace the splitter cable (circled, in one of the 'SPARE' connectors, in this case J7) to the two connections on the end and mark these for reconnection later. Disconnect these two end connectors.

## Retrofit G7 8 inch Wayne Vista 4V &amp; 3V with 4V door Wide (US) Installation Guide

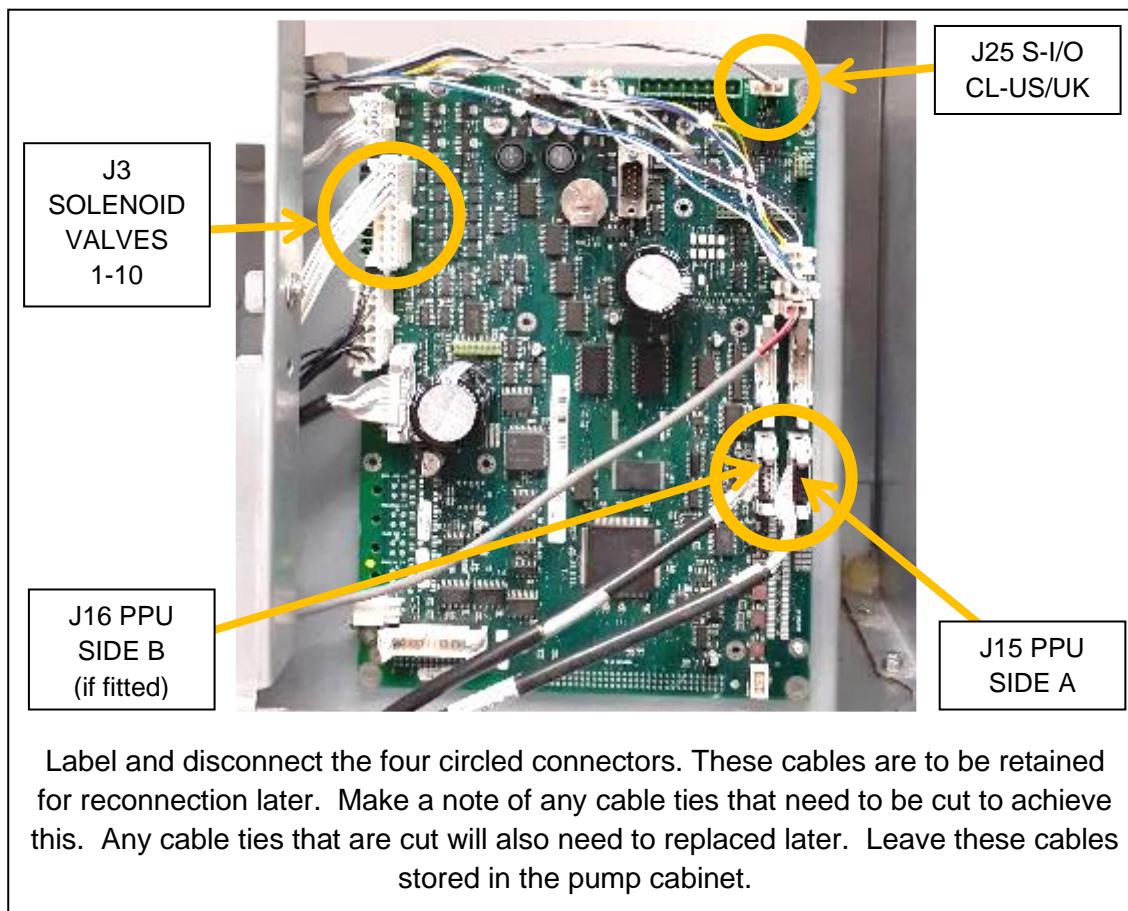


One of these disconnected cables will need to be pulled through the side hole cable grommet in the panel to allow the panel to be removed.



F: CPU Board. Trace the 2 circled connectors and label and disconnect these cables at the other end. Leave them connected to the CPU Board.

## Retrofit G7 8 inch Wayne Vista 4V &amp; 3V with 4V door Wide (US) Installation Guide



## Retrofit G7 8 inch Wayne Vista 4V &amp; 3V with 4V door Wide (US) Installation Guide

**80.** Undo the six nuts holding down the Internal Electronics Panel with an 11/32" socket. Retain the nuts as they will be re-used later.



Undo the six nuts that attach the panel to the cabinet. Retain the nuts.

Above: Side A. Below: Side B.

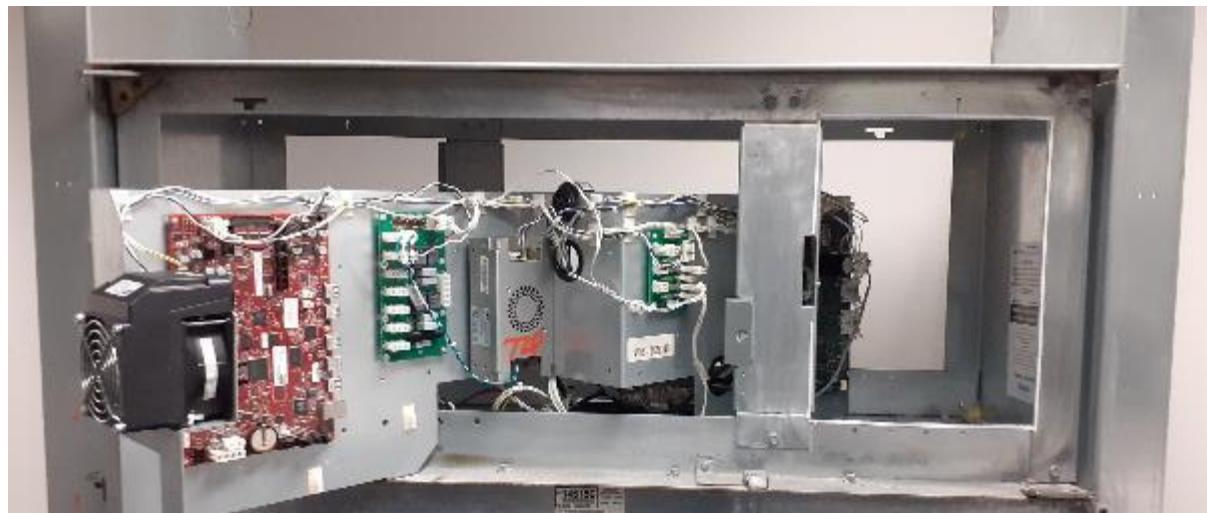


## Retrofit G7 8 inch Wayne Vista 4V &amp; 3V with 4V door Wide (US) Installation Guide

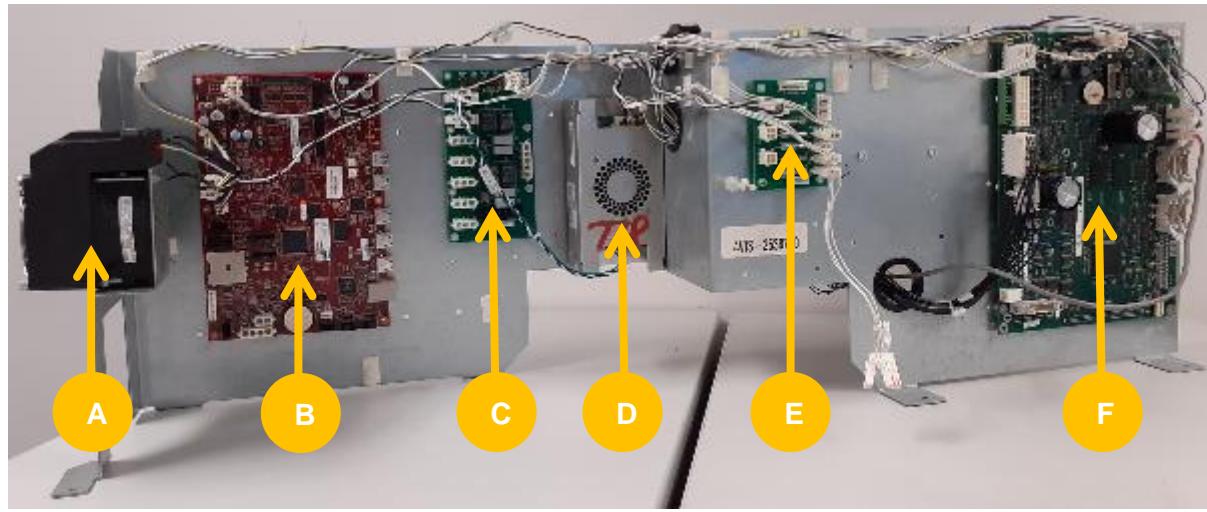
- 81.** Lift the panel up off the studs and rotate it through the door opening. Remove the panel out of the dispenser.



**WARNING:** Take care not to damage circuit boards or to snag or damage any cables.



Lift and rotate the Internal Electronics Panel to get it out of the dispenser cabinet.



Internal Electronics Panel – Front View

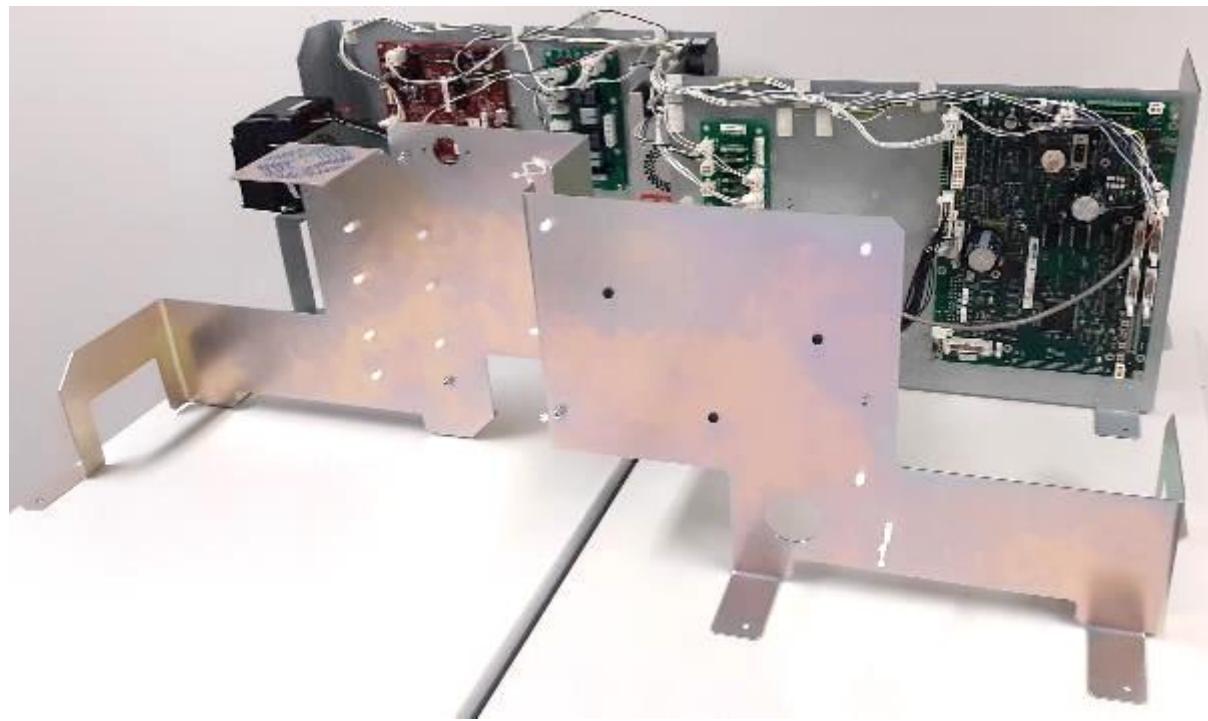
A: Heater. B: Q-CAT Board. C: Mains Voltage Relay Board. D: Low Voltage DC Power Supply.  
E: Fuse Board. F: CPU Board.

**82. TRANSFERRING THE ELECTRONICS TO THE NEW BRACKET:**

This Retro-Fit Kit does not include the replacement electronics bracket. When this Retro-Fit Kit is being installed, a replacement electronics bracket MUST be installed:

Obtain the new Internal Electronics Panel EZ0661 and the fastener kit (FK0046) from the UL Listed by Report Retrofit Kit Part Number kit RF00078-XX (Retrofit Electronics Bracket for G7 8 inch Wayne Vista 4 Wide).

Refer to the installation instructions supplied with that Kit (DCV-00567), before proceeding to the next step.

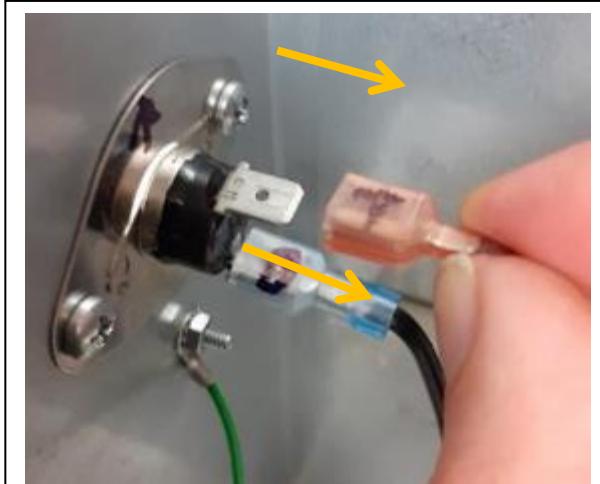


EZ0661 Internal Electronics Panel shown next to the original panel.

## Retrofit G7 8 inch Wayne Vista 4V &amp; 3V with 4V door Wide (US) Installation Guide

**83.** To swap the electronic components and boards over to the new panel, undertake the following steps:

**84.** REMOVE THERMOSTAT SWITCH (where fitted). If a heater is fitted, pull off the spade terminals from the adjacent thermostat switch. Make a note of which cable goes to which tab on the switch and label as needed. To assist getting the cables the right way around later, make a note as to the orientation of the thermostat, which way is up. Mark the thermostat as needed. Undo the two mounting screws with a Phillips #2 screwdriver and retain the screws. Remove the thermostat.



Pull off spade terminals. Label as required and make a note of the orientation.



Mark orientation of the thermostat. Undo and retain the two screws.

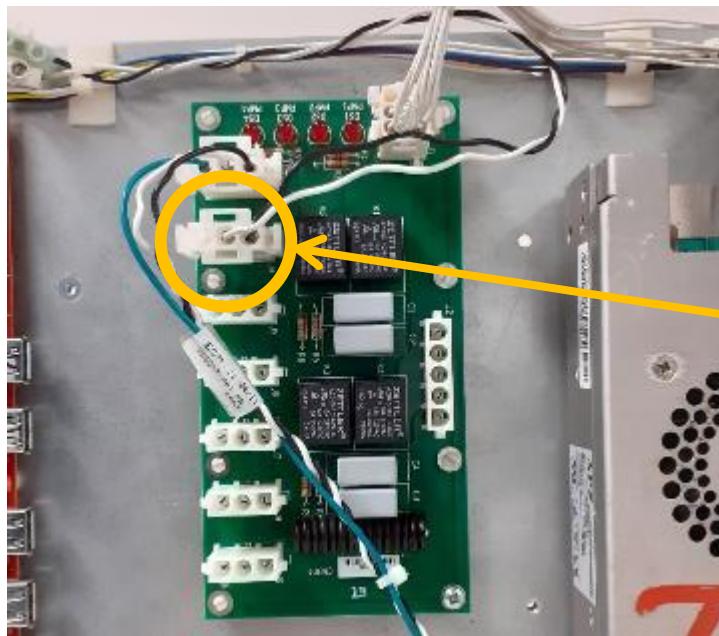
## Retrofit G7 8 inch Wayne Vista 4V &amp; 3V with 4V door Wide (US) Installation Guide

- 85.** REATTACH THERMOSTAT SWITCH (where required). Using the retained screws, reattach the thermostat switch onto EZ0661. Ensure that the orientation is the same as on the original panel with the thermostat facing the same way (spade terminals facing towards the inside of the panel) and the switch is the same way up.



Reattach the Thermostat Switch using the retained screws.  
Ensure the orientation matches how it was when removed.

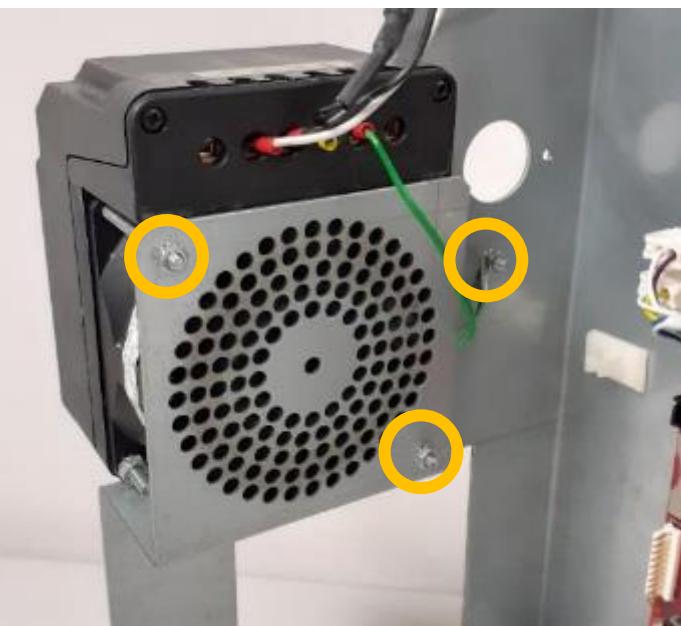
## Retrofit G7 8 inch Wayne Vista 4V &amp; 3V with 4V door Wide (US) Installation Guide

**86. REMOVE HEATER (where fitted).**

Disconnect the Heater power supply cable from the Relay Board (circled). Label this cable for reconnection later. Remove this cable from any cable clips and cut any cable ties as needed.

J4  
HEATER

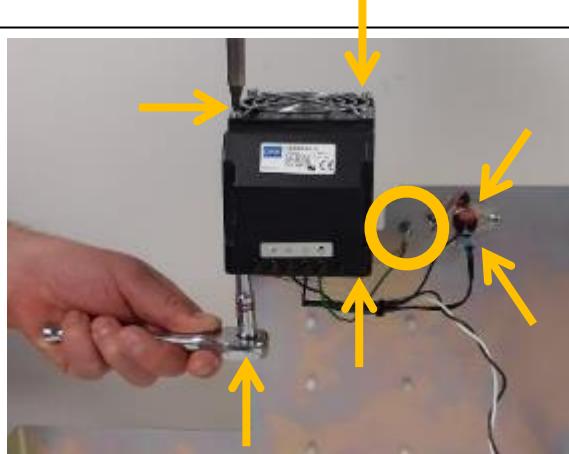
Disconnect the Heater power cable from the Relay Board (circled). Label this cable for reconnection later.



Undo the two nuts holding on the heater using a 1/4" socket or nut-driver. Retain the nuts and long screws. Undo the grounding nut attaching the green grounding cable using a 1/4 " socket or nut driver. Discard the nut. Remove the heater off the bracket with all cables still attached. If any cables are still in cable clips unclip these, and cut any cable ties as needed.

Undo nuts where shown. Discard the grounding nut. Retain the rest with their screws. Remove the heater with cables.

## Retrofit G7 8 inch Wayne Vista 4V &amp; 3V with 4V door Wide (US) Installation Guide



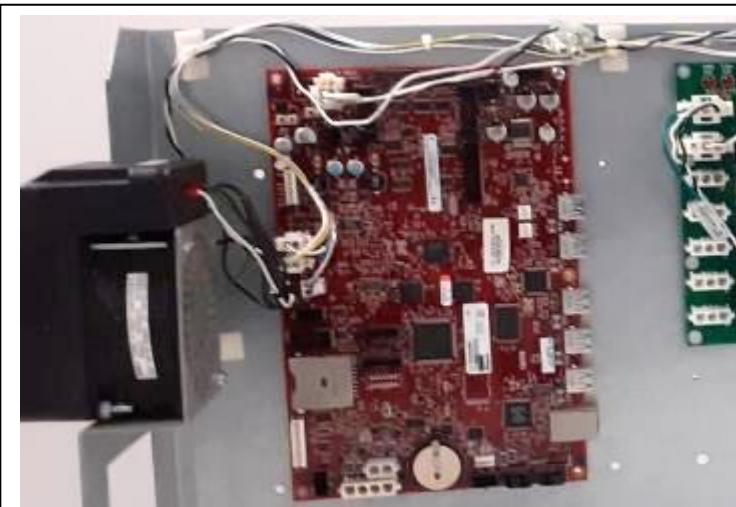
Reattach screws, nuts and cables onto the replacement panel.

**87. REATTACH HEATER (where required).**

Using the retained screws and nuts, reattach the Heater onto EZ0661. The heater will face upwards, with the cable terminals on the Heater facing outwards towards Side A for best access.

Reattach the grounding cable to the grounding stud (circled) using the nut (MN0029) supplied in the fastener kit (FK0046) from the electronics bracket kit (RF00078-XX).

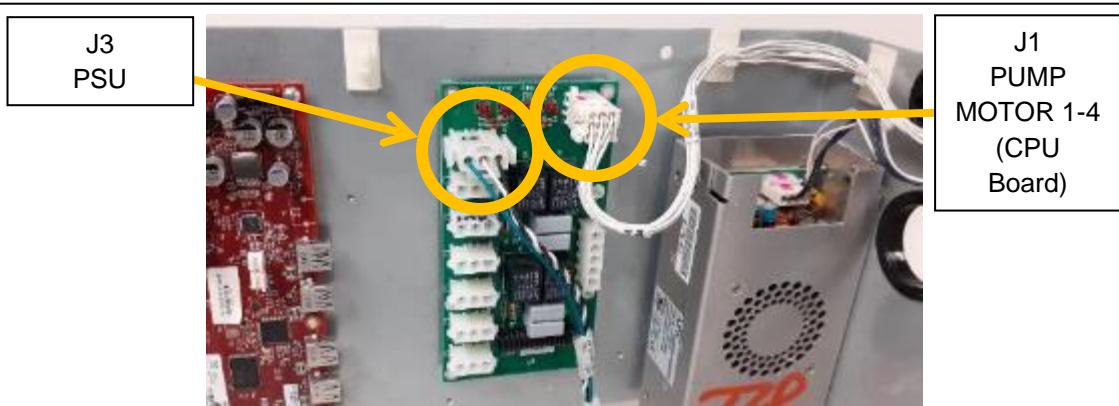
Reattach the labeled cables to the Thermostat Switch.

**88. Q-CAT boards.** The two Q-CAT boards are no longer required. They may be left attached to the original Internal Electronics Panel for disposal.

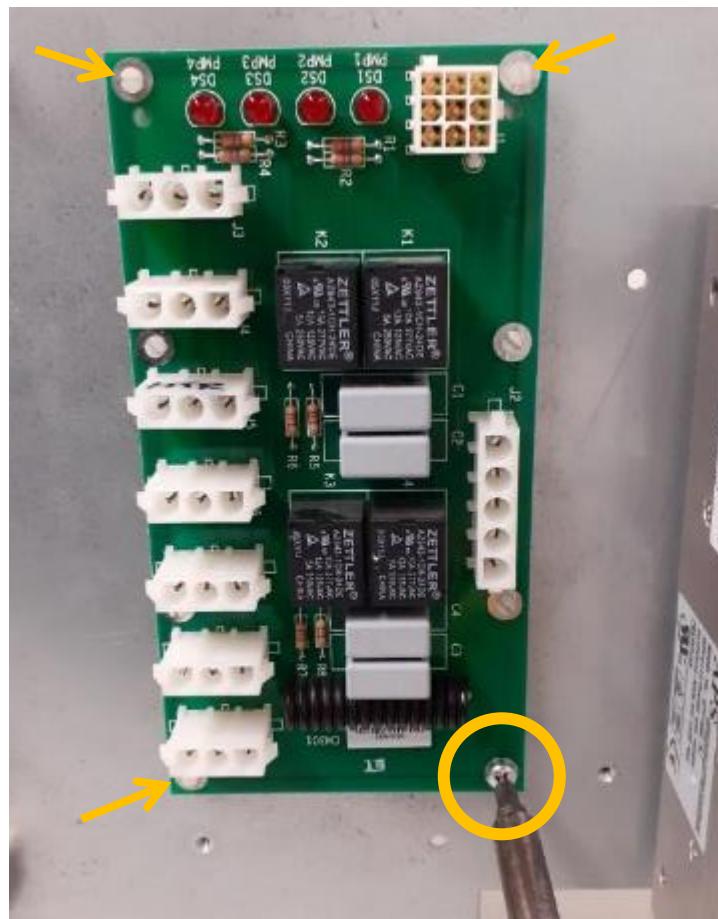
The Red or Blue Q-CAT Boards are no longer required.

**89. REMOVING MAINS VOLTAGE RELAY BOARD.** Label and trace all remaining cables to the Mains Voltage Relay Board and disconnect them. Remove these cables from all cable ties and trunking as required and make a note of the cable routing used. Use a Phillips #2 screwdriver to undo the screw attaching the board (Circled). Retain the screw. Unclip the board off the plastic stand-off mounts (Arrowed) and remove from the original panel. Discard any plastic stand-offs that come away with the board.

## Retrofit G7 8 inch Wayne Vista 4V &amp; 3V with 4V door Wide (US) Installation Guide



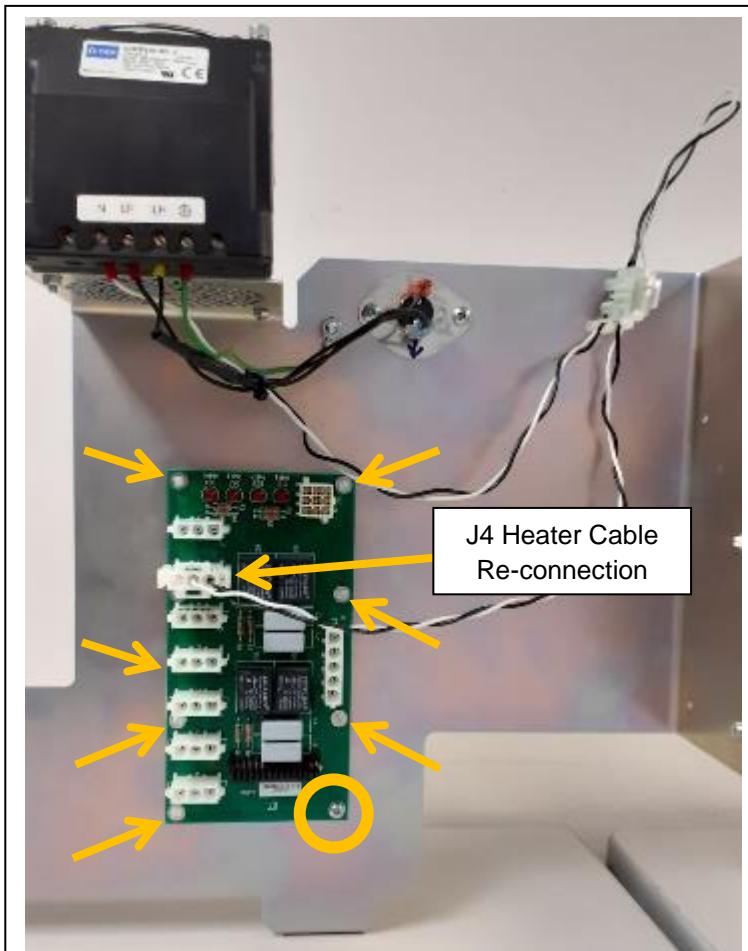
Disconnect cables. Label as required.



Undo screw (circled) and retain. Unclip stand-offs (arrowed).

## Retrofit G7 8 inch Wayne Vista 4V &amp; 3V with 4V door Wide (US) Installation Guide

**90. REATTACH MAINS VOLTAGE RELAY BOARD.** Clip the board onto the seven plastic stand-offs (arrowed) on the new panel EZ0661. Use the retained screw (circled) to re-attach the board. Reconnect the Heater Cable.



Clip the Relay Board into place using the three plastic stand-offs (arrowed). Fix in place using the retained screw (circled). Reattach the Heater Cable.

## Retrofit G7 8 inch Wayne Vista 4V &amp; 3V with 4V door Wide (US) Installation Guide

**91. REMOVE LOW VOLTAGE DC POWER SUPPLY.** Trace the remaining cable from the Low Voltage DC Power Supply and disconnect it from the Fuse Board

Label the cable as needed and make a note of the cable routing. Unclip from any cable ties and make a note of any cable ties cut as these will need to be replaced later.

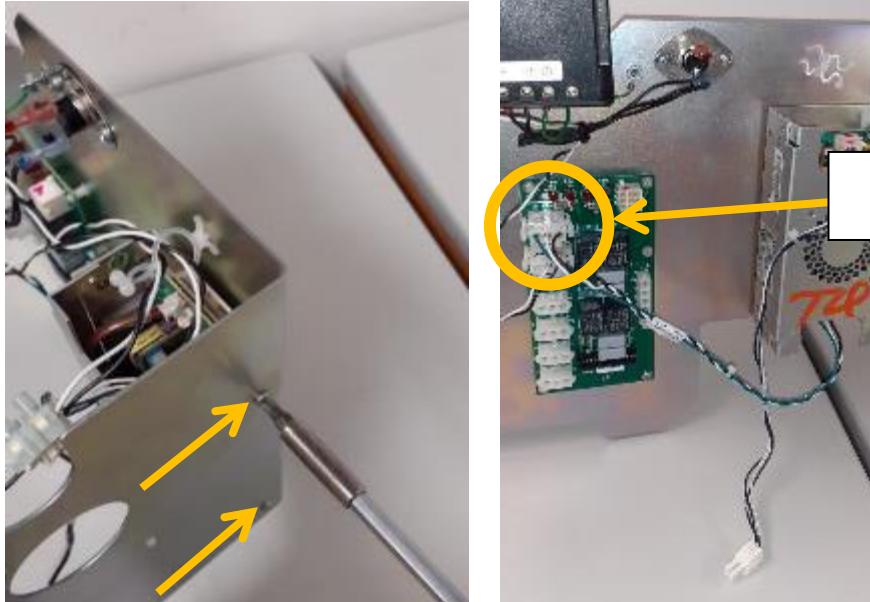
Unscrew the two screws used to mount the Power Supply from the other side of the panel using a #1 Phillips screwdriver. Retain the screws. Remove the Power Supply from the panel.



Trace and disconnect cable (circled) from PSU. Label as required. Unscrew the two mounting screws (arrowed) and retain.

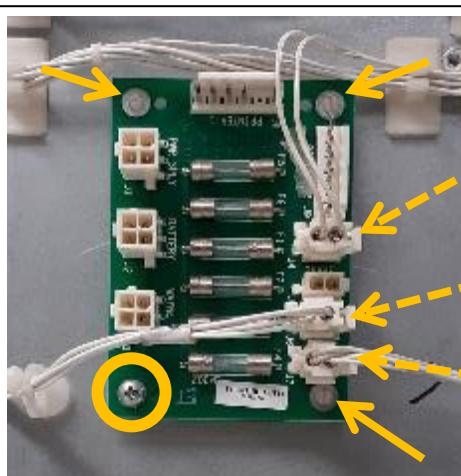
## Retrofit G7 8 inch Wayne Vista 4V & 3V with 4V door Wide (US) Installation Guide

**92. REATTACH LOW VOLTAGE DC POWER SUPPLY.** Using the retained screws, reattach the Low Voltage DC Power Supply to the new panel EZ0661. Reconnect the cable to the Relay Board.



Mount the DC Power Supply onto the new panel using the two retained screws (arrowed). Reconnect the cable to the Relay Board (circled).

**93. REMOVE THE FUSE BOARD.** Disconnect remaining cables on the Fuse Board .as noted below (dashed arrows). Label and retain, or discard, as required.



J4 PMP CMPTR.  
Will be reconnected later.

J6 DUAL CAT. Discard.  
Will not be reconnected.

J7 SPARE.  
Splitter cable can be left  
connected to board.

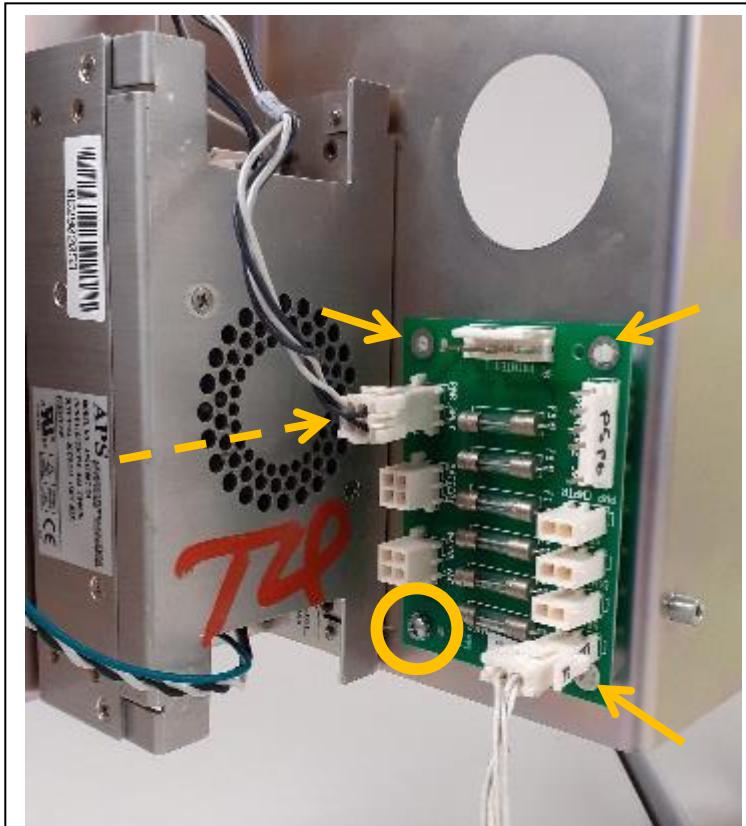
Make a note of the cable routing. Unclip from any cable ties and make a note of any cable ties cut as these will need to be replaced later.

Using a Phillips #2 screwdriver, undo and retain the screw (circled). Unclip the board from the three plastic stand-offs (arrowed). The plastic stand-offs can be discarded.

Undo and retain the screw (circled).  
Unclip the three plastic stand-offs (arrowed).

## Retrofit G7 8 inch Wayne Vista 4V &amp; 3V with 4V door Wide (US) Installation Guide

**94. REATTACH THE FUSE BOARD.** To Reattach the Fuse Board to the new panel EZ0661, clip the three plastic stand-offs to the board (arrowed). Use the retained screw (circled) to fix the Fuse Board to EZ0661. Reconnect the cable from the PSU (dashed arrow).



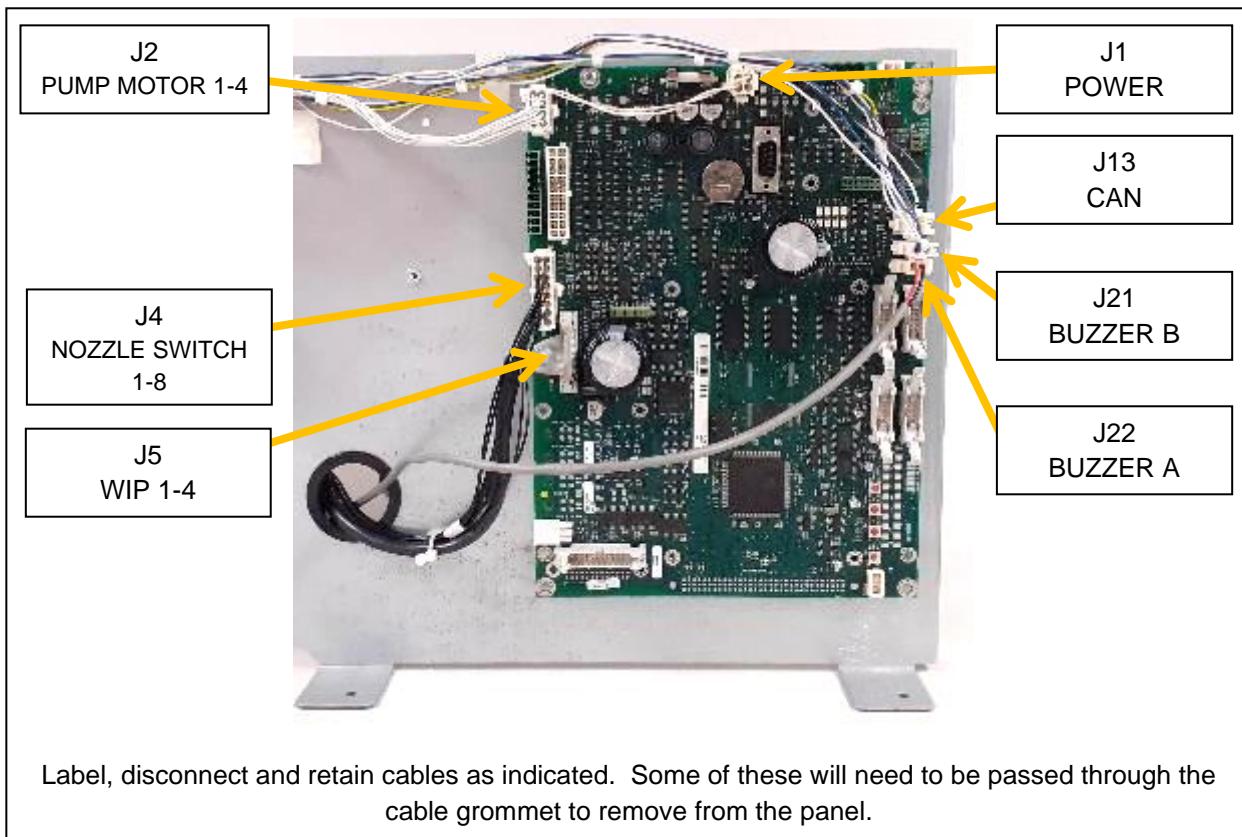
Reattach the board with the retained screw (circled). Clip the board in place with three plastic stand-offs (arrowed). Reconnect the cable from the PSU (dashed arrow).

## Retrofit G7 8 inch Wayne Vista 4V &amp; 3V with 4V door Wide (US) Installation Guide

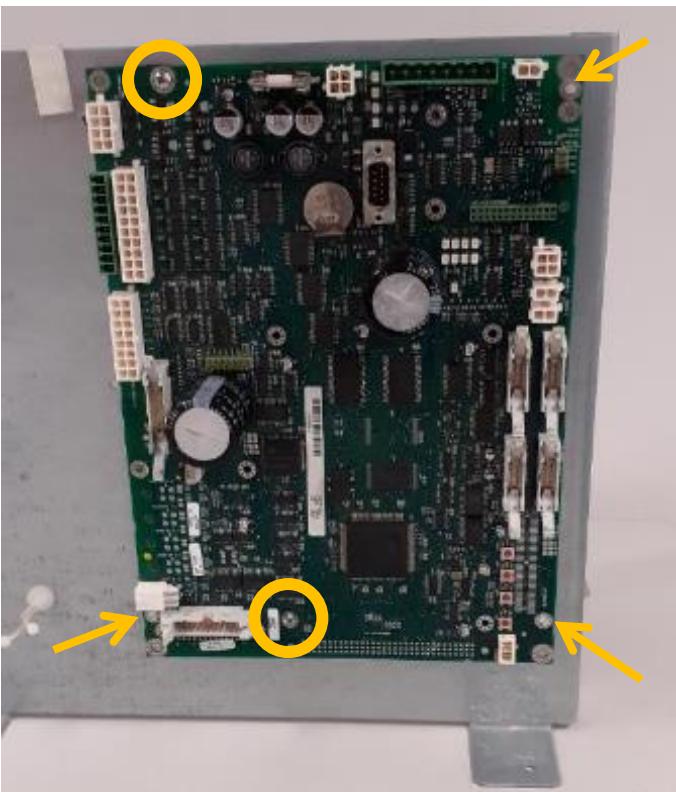
**95. REMOVE THE CPU BOARD.** All remaining cables are to be labelled and disconnected. Retain the cables to be swapped over onto the new panel (except for cables connected to J13 & J21 which are discarded).

Unclip from any cable ties and make a note of any cable ties cut as these will need to be replaced later.

Using a Phillips #2 and a Phillips #1 screwdriver, undo and retain the screws (circled). Unclip the board from the plastic stand-offs (arrowed). The plastic stand-offs can be discarded.



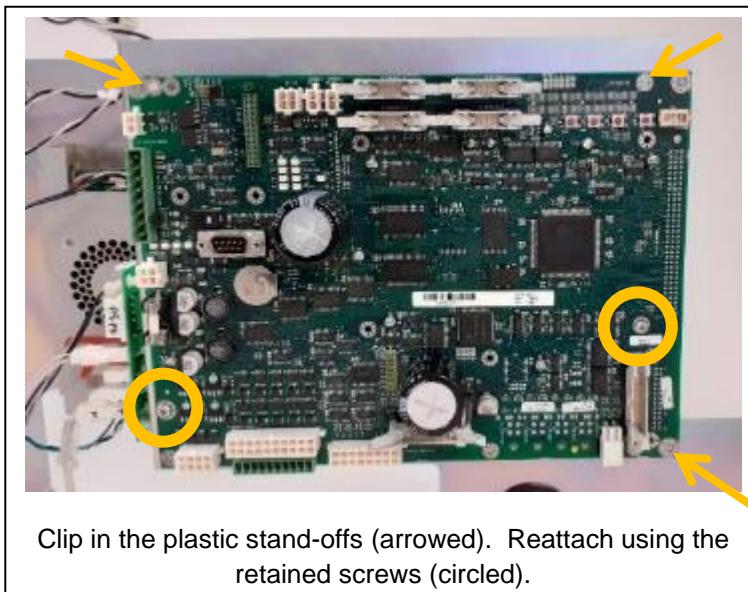
Label, disconnect and retain cables as indicated. Some of these will need to be passed through the cable grommet to remove from the panel.



Disconnect Buzzer cable and any others remaining.  
Unscrew the screws (circled) and retain. Unclip plastic  
stand-offs (arrowed).

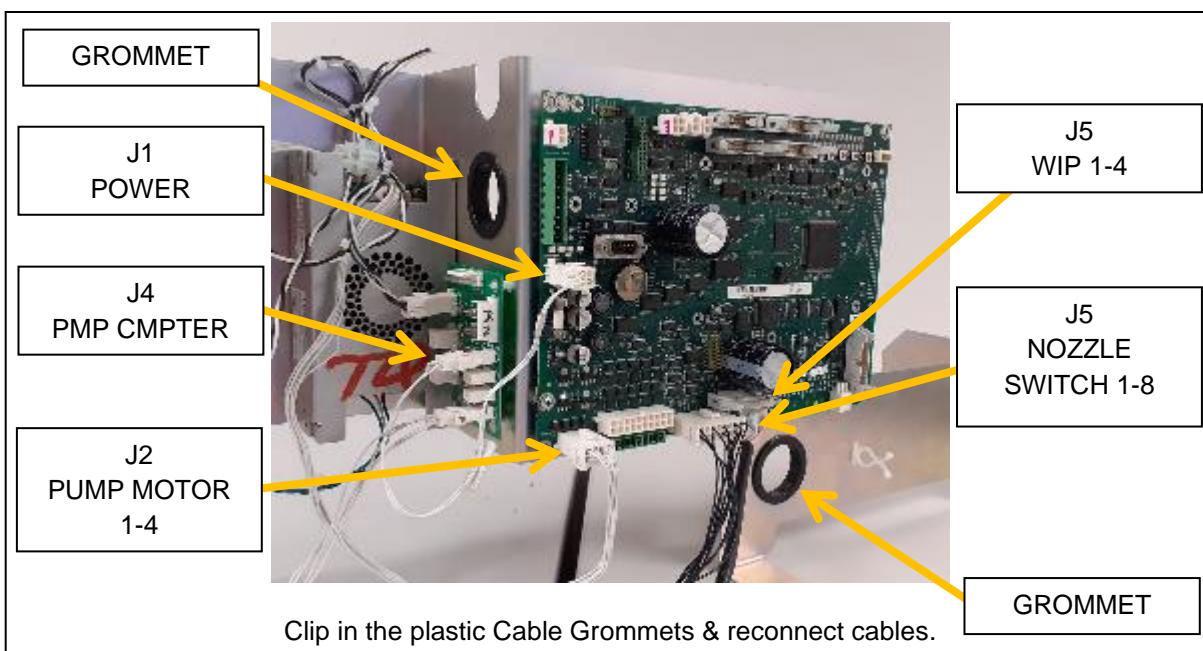
## Retrofit G7 8 inch Wayne Vista 4V &amp; 3V with 4V door Wide (US) Installation Guide

**96. REATTACH CPU BOARD.** Rotate the CPU Board 90 degrees anti-clockwise. Clip the three plastic stand-offs to the board (arrowed) to reattach the CPU Board to the new panel EZ0661. Use the retained screws (circled) to fix the board in place.

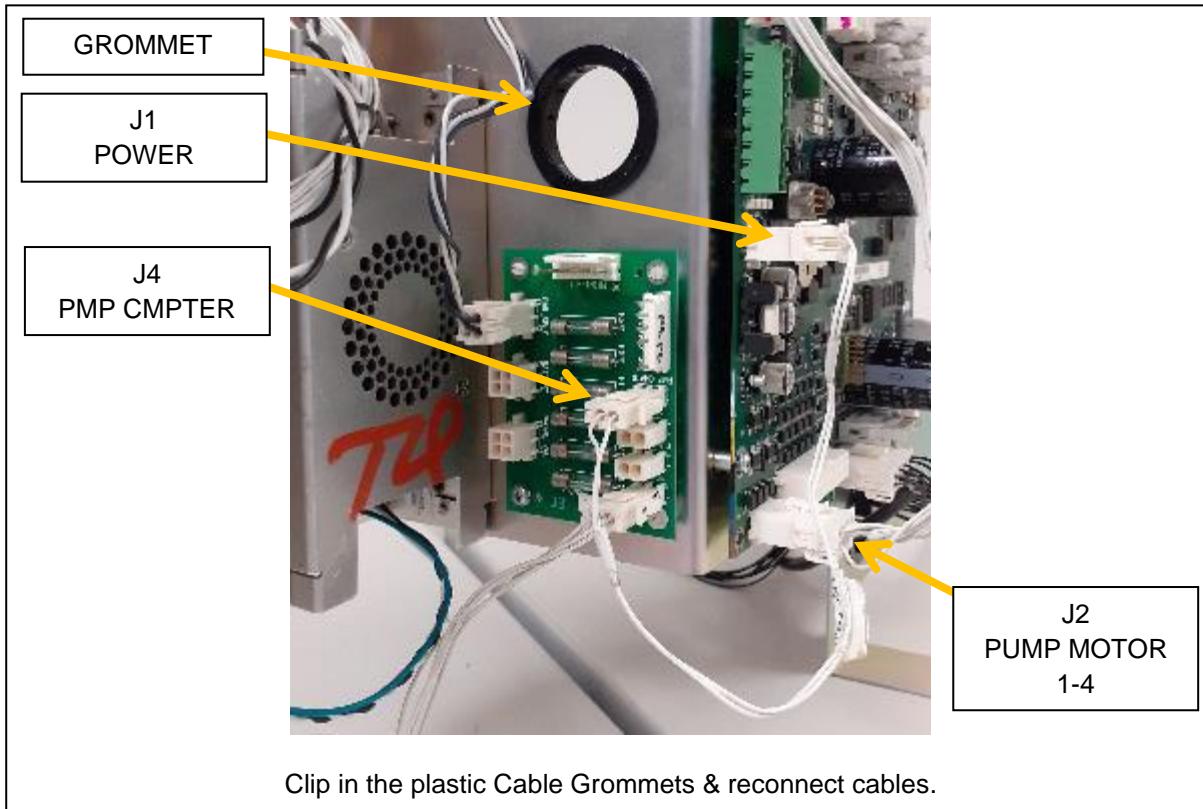


Clip in the plastic stand-offs (arrowed). Reattach using the retained screws (circled).

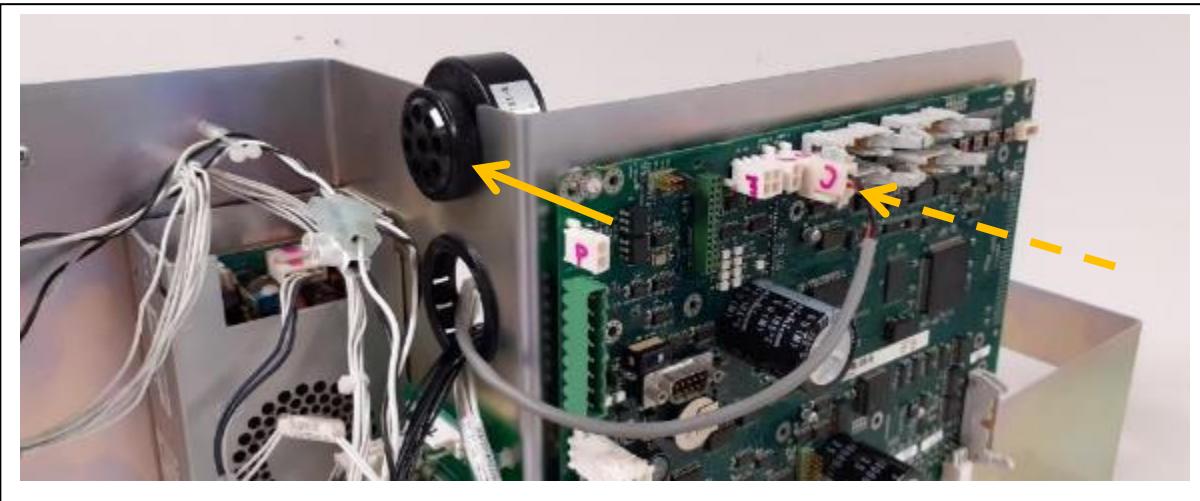
**97. SWAP OVER GROMMETS AND RECONNECT CPU CABLES.** Unclip the two round plastic Cable Grommets and snap into the new panel EZ0661. Reconnect cables as shown to the CPU Board (arrowed) and Fuse Board. Feed these through the Cable Grommets where needed.



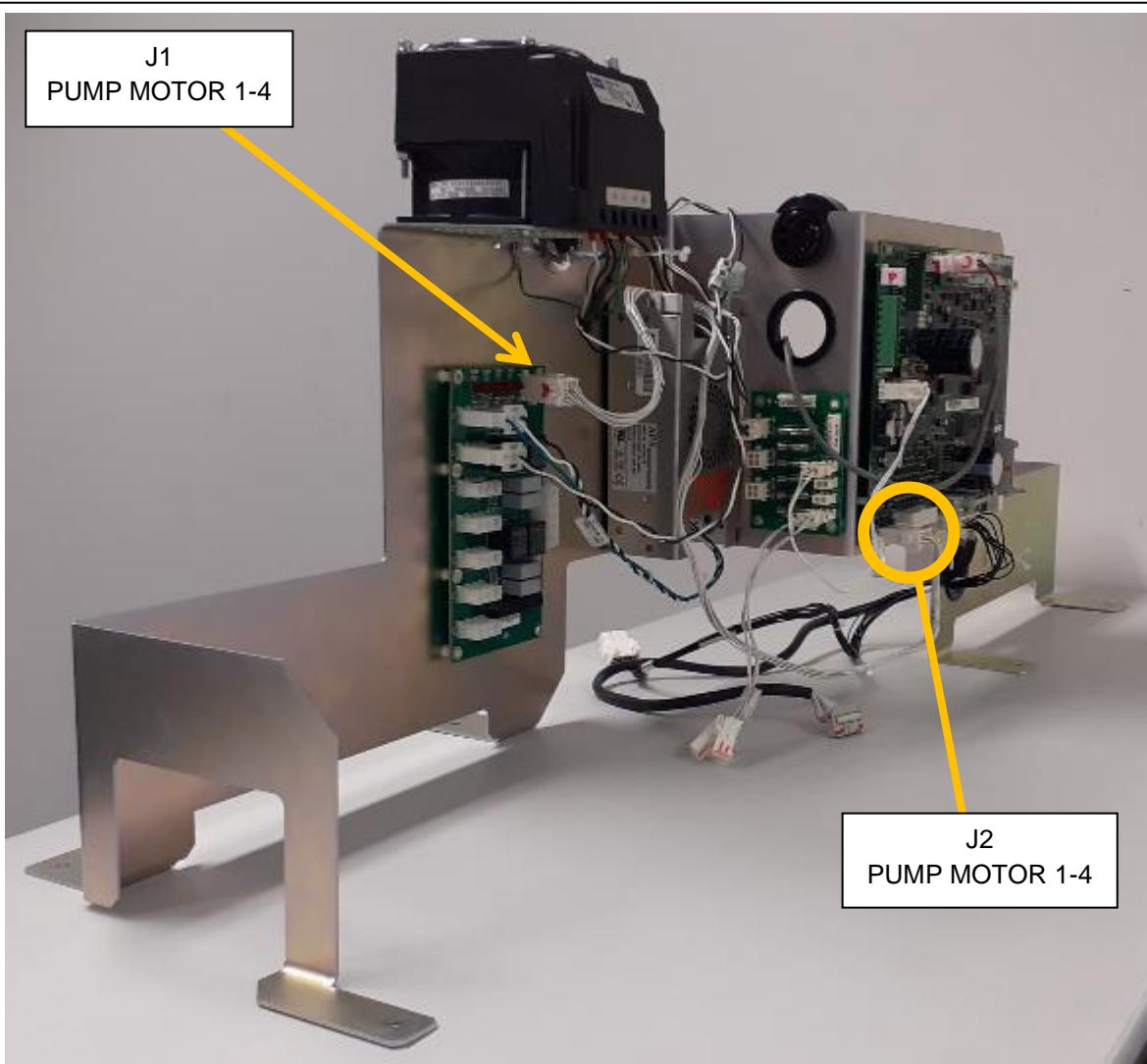
## Retrofit G7 8 inch Wayne Vista 4V &amp; 3V with 4V door Wide (US) Installation Guide



**98. SWAP OVER THE BUZZER.** Make a note of which way the Buzzer is facing on the panel. Loosen the bezel ring and lift the Buzzer off the panel. Retain the ring (arrowed). Fasten onto the new replacement panel EZ0661 using the ring and feed the cable through the Grommet. Connect to the CPU Board where shown (dashed arrow).



- 99.** COMPLETED REPLACEMENT PANEL EZ0661. Reconnect the cable from the CPU Board (Circled, J2 Pump Motor 1-4) to the Relay Board (Arrowed, J1 Pump Motor 1-4). The Disassembly Procedure is now complete. Proceed to Section 5 'Pre-Installation Procedure.



The replacement panel EZ0661 with components mounted, is now ready to be reinstalled into pump.

## 5 Installation Procedure

This section follows from the Disassembly procedure above, and assumes the pump still has doors removed. References to “left-hand” and “right-hand” are as viewed into the pump on the Side you’re working on.

If you are working on a double-sided Vista 4V and have not yet disassembled Side B, repeat Steps 4 through to Step 59 now, otherwise continue with the procedure below.

### 100.

#### VISTA 4V WIDE FRAME – SILICONE SEALANT

If the dispenser is a Vista 4V Wide Frame, buff off any corrosion present on the frame where the door gasket makes the seal to the frame using a scotch-brite pad or similar. Apply a bead of RTV outdoor silicone sealant to the top gap in the joint in the metal frame. Smooth this bead out with a suitable flat scraper blade. Allow to set before refitting doors. Repeat this step for both sides of the dispenser.



## Retrofit G7 8 inch Wayne Vista 4V &amp; 3V with 4V door Wide (US) Installation Guide

**101. VISTA 4V POWER SUPPLY INSTALLATION**

Obtain the correct assembled plate:

For Vista 3V pumps converted to 4V: First go to Step **113** and complete installing the pump doors. PSU assembly EZ0703 will be then installed from Step **136**.

For Vista 4V pumps: Go to Step **102**.



PSU Plate with cables, EZ0703 for Vista 3V pumps converted to 4V



PSU Plate with cables for Vista 4V pumps

1. Mounting Adaptor Bracket (MZ0302)
  2. PSU Assembly (EZ0703)
  3. Power Supply Bracket Fastener Kit (FK0051)
- Note: For this kit, the screws are not required. These items can be discarded.

## Retrofit G7 8 inch Wayne Vista 4V &amp; 3V with 4V door Wide (US) Installation Guide

- 102.** Obtain the PSU Mounting Plate (MZ0302), and with a permanent marker pen, mark two cut-lines on the tabs as shown below:



Mark two cut-lines on the tabs

Clamp the bracket securely, away from the electronics enclosure and cut off the tabs with a hacksaw. File off all sharp edges.



Cut off the tabs and file off sharp edges.

## Retrofit G7 8 inch Wayne Vista 4V &amp; 3V with 4V door Wide (US) Installation Guide

- 103.** FOR VISTA 4V PUMPS: REMOVE LID NUTS. Using a  $\frac{1}{4}$ " nut driver or socket, undo the two left hand end nuts (relative to the side you're installing from) which are securing the lid of the dispenser cabinet to the dispenser cabinet. Retain the nuts. For easiest access you will need to work from both sides of the pump.



Undo and retain the two nuts on the left side of pump (for access you will need to work from both sides of the pump)

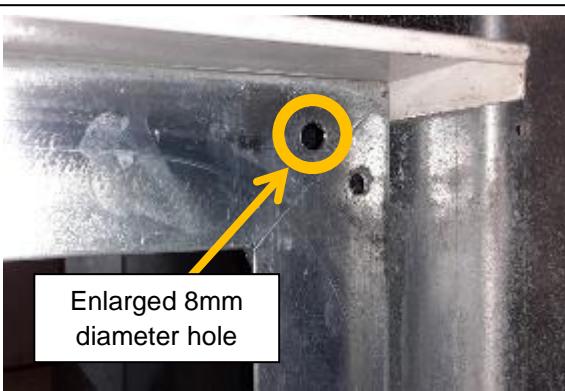
## Retrofit G7 8 inch Wayne Vista 4V &amp; 3V with 4V door Wide (US) Installation Guide



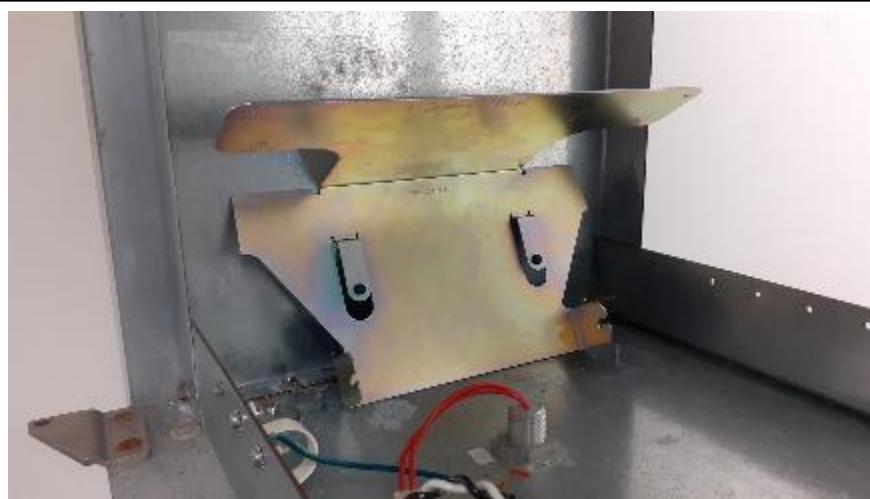
**104.** If you are installing on a Vista 4V, drill out and enlarge the existing topmost screw hole on the right-hand side of the door larger, using an 8mm diameter drill.



**WARNING:** Electric power tools are not permitted on the forecourt. Either use a manual drill, or a pneumatic drill.



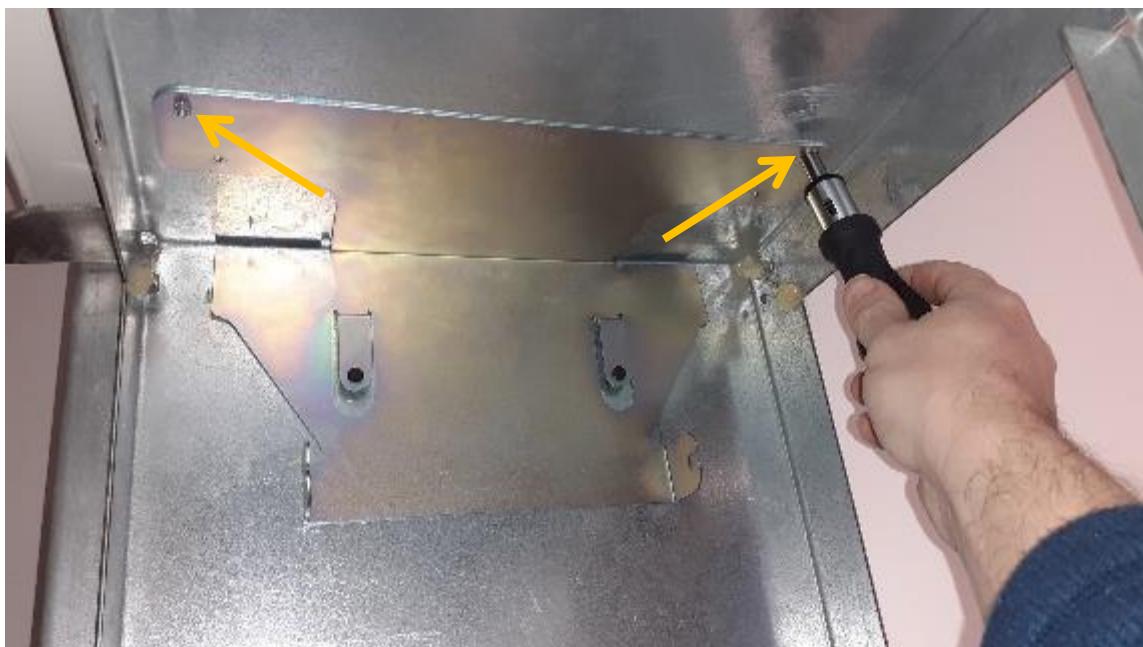
**105.** PLACE PSU MOUNT BRACKET IN PUMP. Place the PSU Mount Bracket MZ0302 inside the cabinet.



Place PSU Mount Bracket inside the cabinet

## Retrofit G7 8 inch Wayne Vista 4V &amp; 3V with 4V door Wide (US) Installation Guide

- 106.** ATTACH PSU MOUNTING PLATE. Lift the PSU Mounting plate into place on the ceiling of the cabinet, onto the two lid studs. Tighten the nuts retained earlier using a  $\frac{1}{4}$ " socket or nut driver.  
If you are installing into Side A of a double-sided pump, repeat Steps **102** to **106** for Side B.  
If it is a single sided pump or you have installed the Mounting Plate onto Side B, continue now to Step **107**



Attach PSU Assembly onto the lid studs using the retained nuts. Side A shown.

- 107.** Place the Power Supply Assembly (EZ0703) in the pump.



PSU placed inside the pump

Hang Power Supply Assembly onto the Mounting Plate. Push in firmly and pull downwards onto the bracket, ensuring studs align with the bracket slots on both sides.



Hang PSU from Mounting Bracket

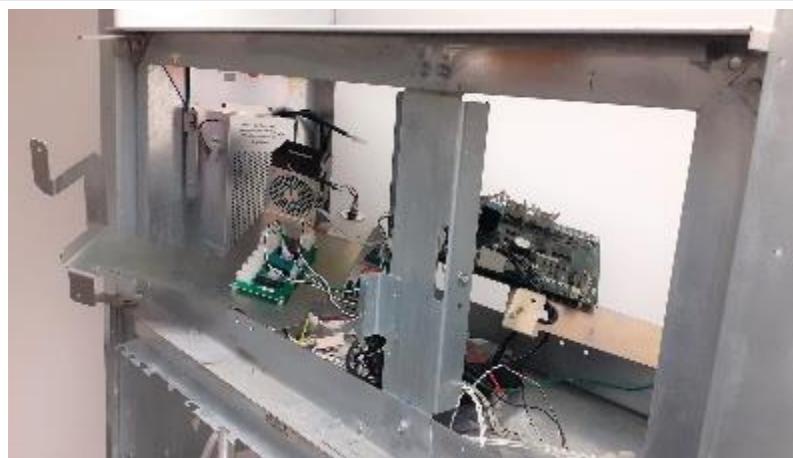
## Retrofit G7 8 inch Wayne Vista 4V &amp; 3V with 4V door Wide (US) Installation Guide

- 108.** Attach 2 x MN0029 nuts (from Fastener Kit FK0051) and tighten them with an 11/32" socket.



Tighten Nuts (MN0029) on both sides

- 109.** If this is a single-sided dispenser, proceed to Step **110**. If this is a double-sided dispenser, repeat Steps **107** and **108** for Side B.



Place the Electronic Panel inside the pump

**110. VISTA 4V: FIT  
REPLACEMENT PANEL INTO  
PUMP**

Place the replacement panel from Step **99** into the pump cavity, with the mounted components facing towards Side A of the pump. To fit the panel into the pump you will need to lean the panel on its back and insert it on an angle.

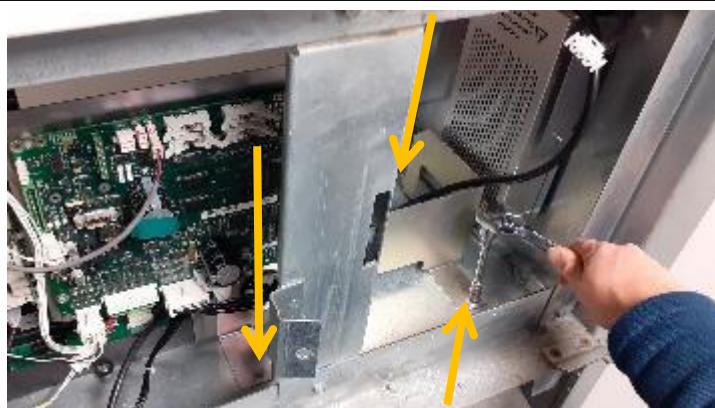


**WARNING:** Take care not to damage circuit boards or to snag or damage any cables.

NOTE: Because there is only one panel per pump, these installation Steps cover the requirements for both Side A and Side B, and are for either single sided or double sided pumps.

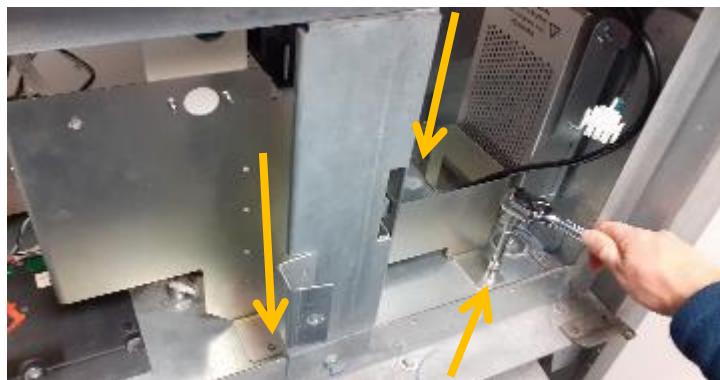
## Retrofit G7 8 inch Wayne Vista 4V &amp; 3V with 4V door Wide (US) Installation Guide

- 111.** Carefully maneuver the panel inside the pump without pinching cables, and place onto the six studs in the floor of the cabinet. Fasten down with the six retained Nuts using an 11/32" socket.



**WARNING:** Take care not to pinch, snag or damage any cables when positioning the panel.

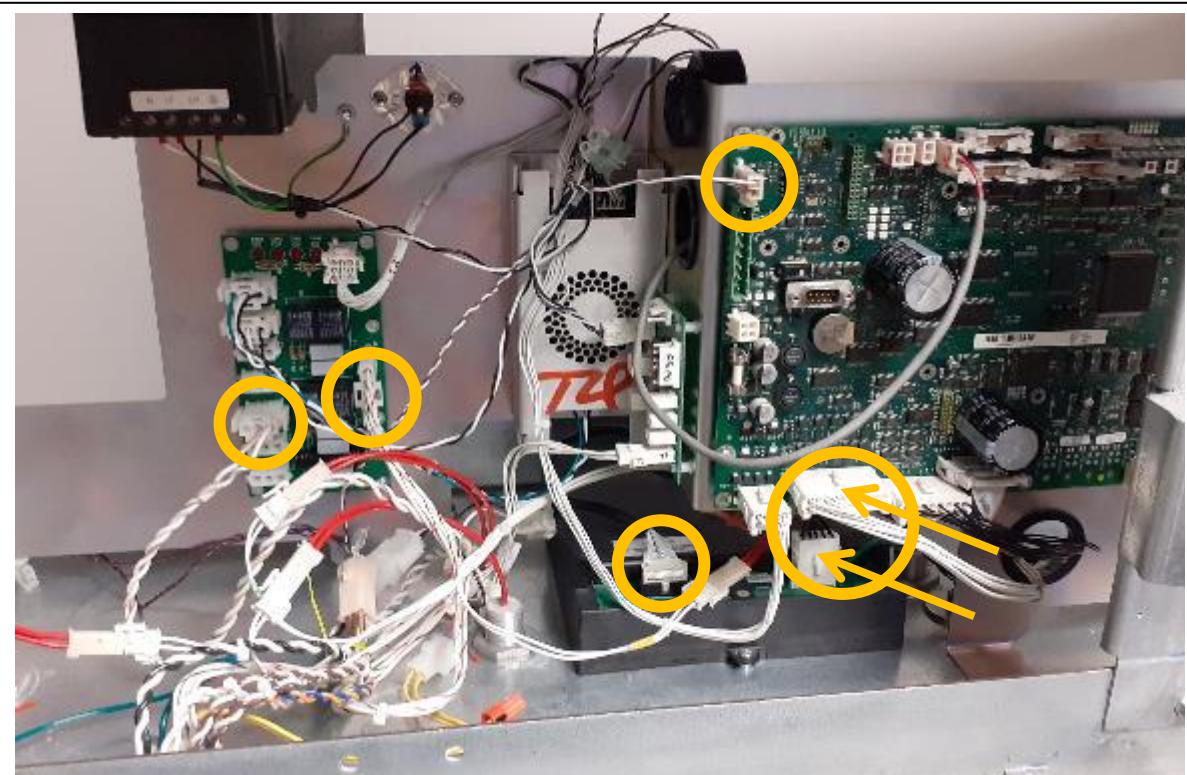
Fasten 11/32" Nuts (Right end as seen from Side A).



Fasten 11/32" Nuts (Left end as seen from Side B).

## Retrofit G7 8 inch Wayne Vista 4V &amp; 3V with 4V door Wide (US) Installation Guide

- 112.** RECONNECT CABLES ONTO PANEL. Reconnect cables previously disconnected between items mounted to the replacement panel and the pump.



Reconnect cables between the Pump and Panel components (circled and arrowed).

- 113.** If an Attendant Call Button is fitted, locate the yellow cables disconnected from the Left Door in Step 7 and remove these from the trunking. Temporarily coil and store these cables inside the pump cabinet. Repeat this for both sides of the pump.

## Retrofit G7 8 inch Wayne Vista 4V &amp; 3V with 4V door Wide (US) Installation Guide



Re-tighten Top Hinge Bracket Nuts

**114. REFIT THE LEFT DOOR**

While supporting the weight of the Left Door Assembly (completed at Step 41), place the bottom hinge pin into the bottom hinge bracket. Lift the loosened top hinge bracket over top of the top hinge pin.

Before tightening the nuts, check that no silicone sealant residue has become trapped under the nuts.

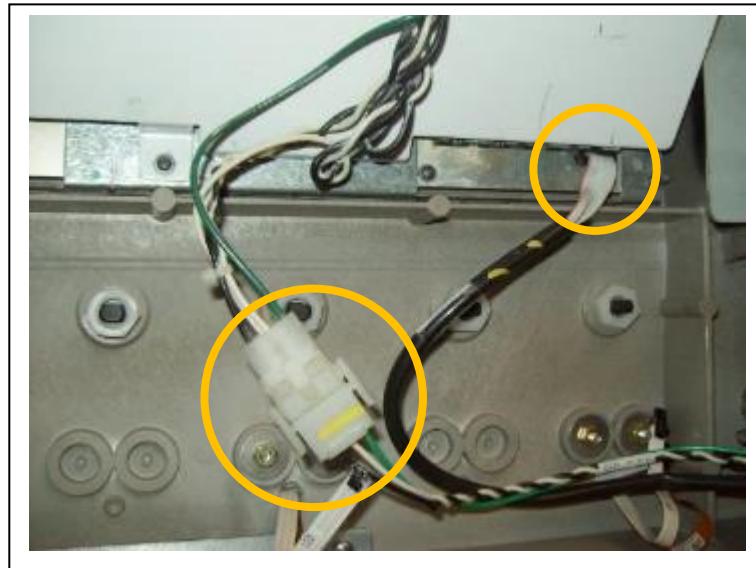
Retighten the top hinge bracket nuts. On a Vista 3V dispenser use a 3/8" socket. On a Vista 4V dispenser use a 7/16" socket.

For easiest access, a short length socket should be used to have clearance to the Power Supply assembly.

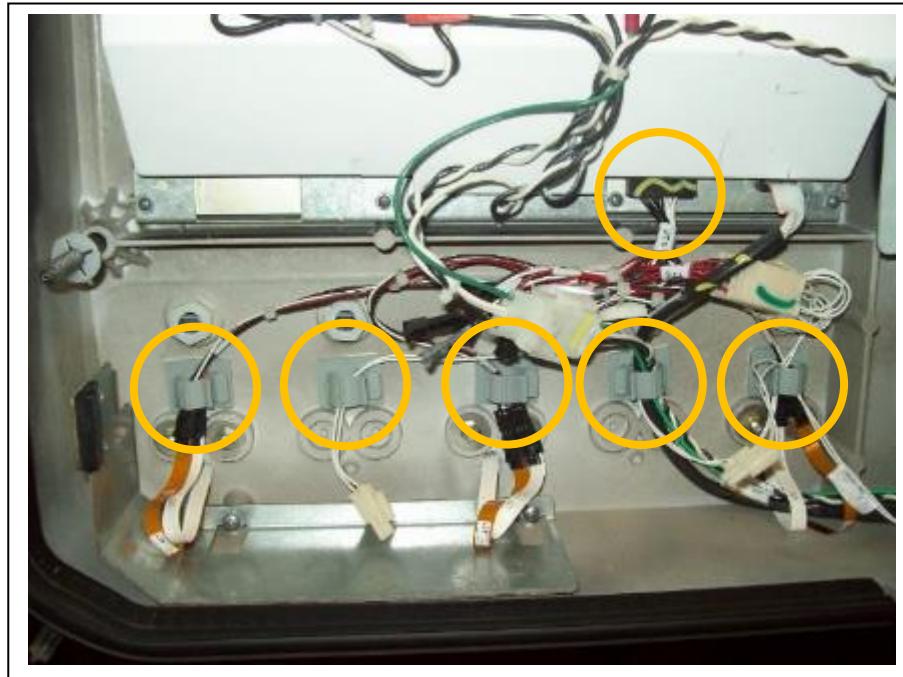
After tightening the nuts, check if the silicone around the joint has been disturbed. If it has moved or lost adhesion, remove any detached or loose silicone and reapply outdoor RTV silicone sealant over the joint area.

## Retrofit G7 8 inch Wayne Vista 4V &amp; 3V with 4V door Wide (US) Installation Guide

- 115.** Reconnect the PPU Display cables.

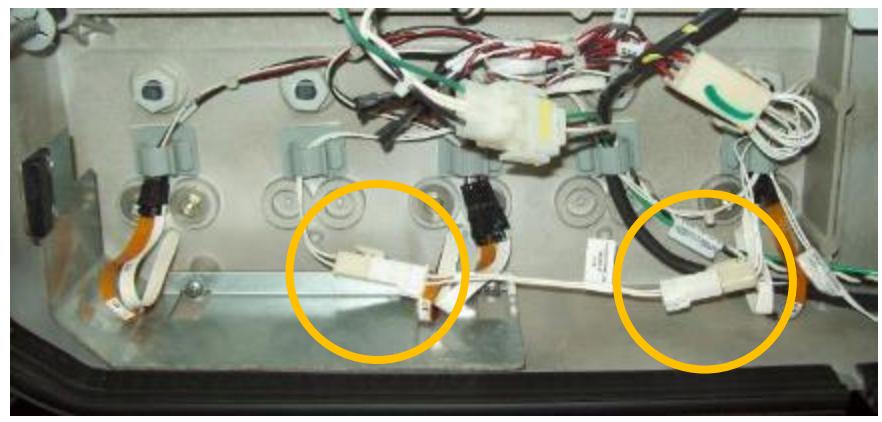


- 116.** Apply five MF0046 self-adhesive cable tidies as shown. Retrieve the Fuel Grade Selector Switch cable harness and reconnect to the fitted switches and the PPU display (Connect the ACT and LED connectors for each switch fitted). Check that the correct cables are reconnected to the correct switches. Secure any excess cables into the cable tidies.



## Retrofit G7 8 inch Wayne Vista 4V &amp; 3V with 4V door Wide (US) Installation Guide

- 117.** If the Fuel grade Selector Switches are the type with the built in LEDs (two ribbon cables), reconnect the power feed for the LEDs using cable EK0202. Secure any excess cable into the cable tidies.



- 118.** Obtain the Exciter (IA0015) from the kit. Clean the surface of the bottom of the Left Door to the right of the Reed Switch Sensor Bracket (if fitted) with Isopropyl Alcohol. Allow to dry. Peel off the adhesive backing from the adhesive pads and apply firmly, holding pressure for at least thirty seconds to enable the adhesive to stick properly.



Apply pressure to 4 pads and central Exciter adhesive ring.

## Retrofit G7 8 inch Wayne Vista 4V &amp; 3V with 4V door Wide (US) Installation Guide



Press side levers to open cable clamps.

- 120.** Connect Exciter Audio Cable (EK0096) by pressing lever buttons (arrowed) to open the cable clamps. Insert cable terminals and release the lever to clamp in place.



Press side levers to open cable clamps.

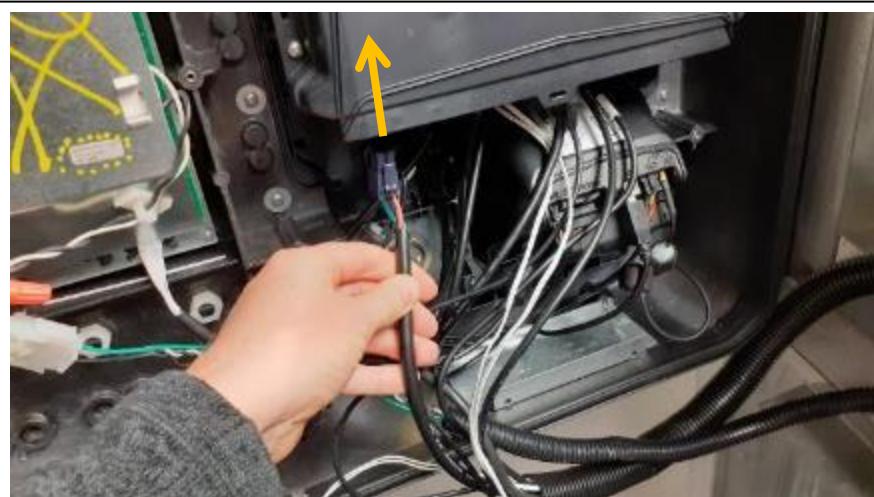
- 121.** Connect the Audio Cable to the G7-8 SDC where shown (circled). There are two positions (L & R) and either can be used.

Tidy the excess Audio Cable into a looped hank and retain using cable ties and the self-adhesive cable tidies installed in Step 116.

If this pump does not have fuel grade selector switches, obtain the spare MF0046 Self Adhesive Cable Tidies from the Fastener Kit and install now where needed to safely tidy the excess Audio Cable.

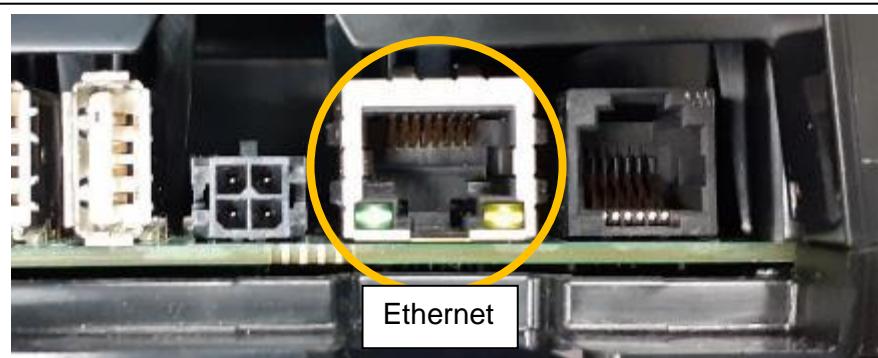
## Retrofit G7 8 inch Wayne Vista 4V &amp; 3V with 4V door Wide (US) Installation Guide

**122.** CONNECT CABLES TO LEFT DOOR. Re-install the cable trunking from the main dispenser cabinet. Feed the OPT cables through the trunking (DC power cable from PSU, Printer cables from EZ0649 Printer Kit that were removed in step **48**, Ethernet Cable from step **64 or 79**) and connect as shown in the below figures. Tidy any excess cable into the trunking as needed. Attach the cable trunking to the cable tray with cable ties and bundle the trunking together with cable ties as needed. Refit the 'P' clip to attach the trunking to the pump chassis (if used) and reconnect the grounding cable from the PPU Display (green cable in the small trunking) if this has been previously disconnected. Please refer to the following photographs.



Feed OPT cables through trunking. Connect the DC power cable from the Power Supply to 'PWR IN' connector on the APC.

## Retrofit G7 8 inch Wayne Vista 4V &amp; 3V with 4V door Wide (US) Installation Guide



Connect the ethernet cable from the dispenser to the 'LAN' Ethernet connector.



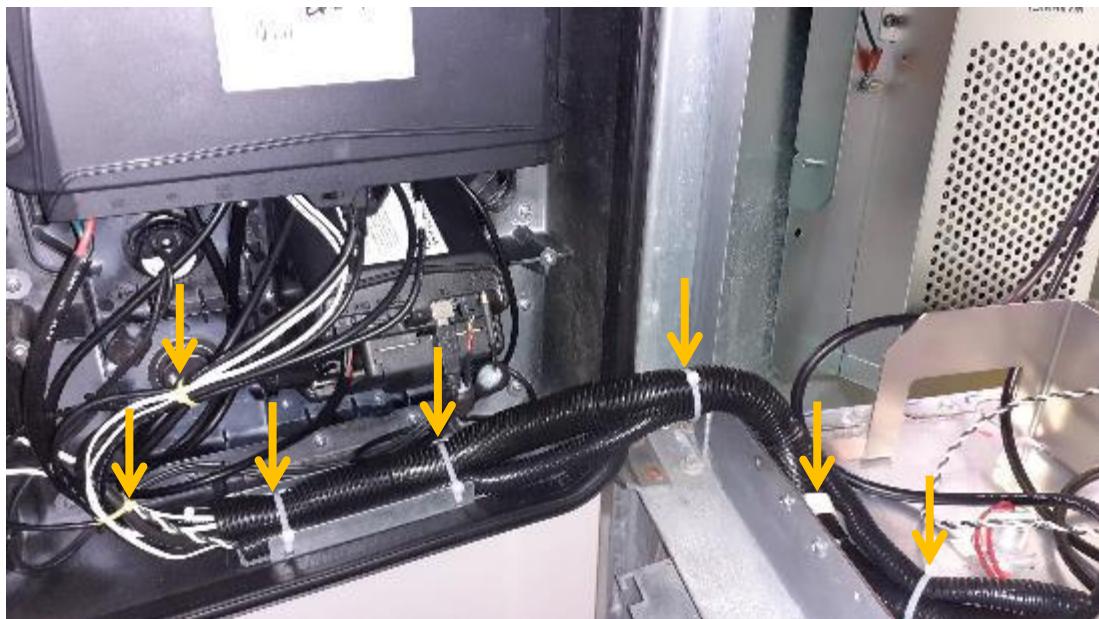
Connect the Printer USB and Power cables to the G7 8 inch SDC (shown with arrows).

## Retrofit G7 8 inch Wayne Vista 4V &amp; 3V with 4V door Wide (US) Installation Guide

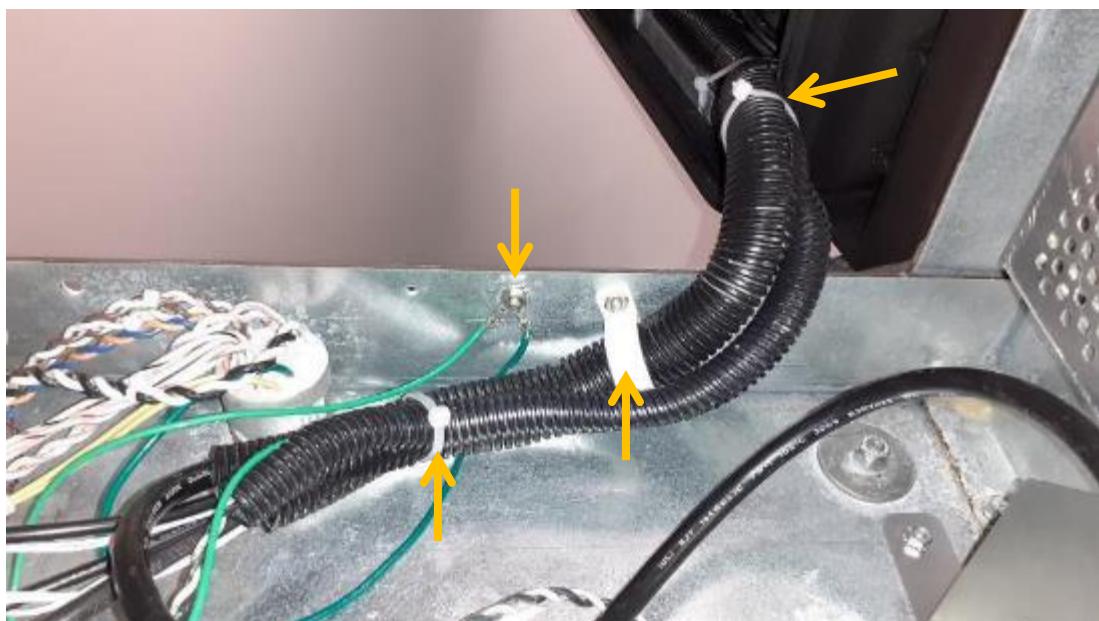


Feed all the OPT cables through the trunking and into the pump cabinet.  
(Unconnected ends of the two printer cables shown in hand above)

## Retrofit G7 8 inch Wayne Vista 4V &amp; 3V with 4V door Wide (US) Installation Guide



Cable Ties, 'P' Clip and PPU Grounding Cable as arrowed.



## Retrofit G7 8 inch Wayne Vista 4V &amp; 3V with 4V door Wide (US) Installation Guide

- 123.** Open and close the Left Door a few times and check that the cable trunking and all other cables have safe clearance for movement between the door, the pump chassis and any other obstructions. Adjust 'P' clip and zip ties as needed.



Check safe routing and clearance with pump chassis.

- 124.** REPEAT STEPS 114 TO 123. Repeat the Steps required to fit the Left Door on both sides of the pump. This is required to ensure there is access at the appropriate time for restoring the silicone RTV on both Top Hinge Bracket joints. This also applies to single sided installations, as both sets of doors may have been removed in previous steps.

**125. CABLES FITTED TO RIGHT DOOR**

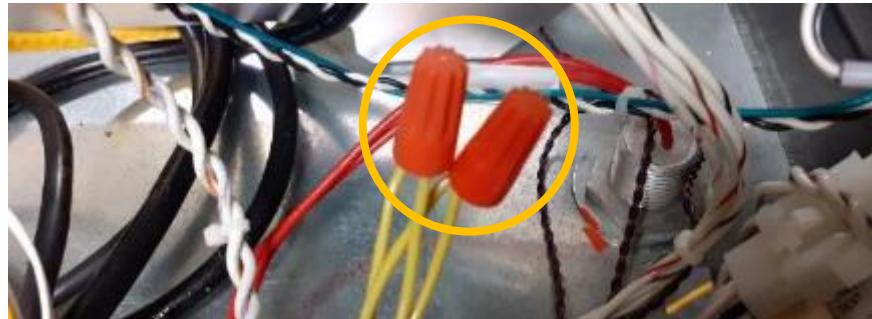
Obtain the Right Door with printer fitted from Step 59.

If an Attendant Call Button is fitted, locate the two yellow cables removed from the trunking in Step 113, and disconnect and remove these cables from the pump. Plastic connectors or screw-in terminals may be used. Make a note of the internal connections and label if required.

Reconnect these cables at the Attendant Call Button end on the Right Door assembly.



Trace yellow Attendant Call Button cables and disconnect from pump.



The cables may use clip in connectors or screw-cap terminals as shown.



Refit the spade terminal ends to the Attendant Call Button.

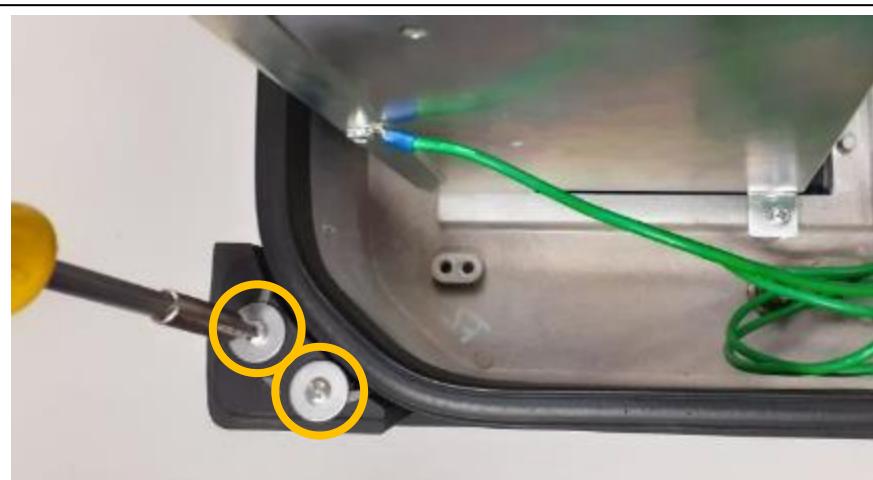
- 126.** If Totalizers are fitted, reconnect the cables removed in Step **50** to the Totalizer Display. Take care to connect the correct cable to the correct Totalizer Display. Tidy any excess cable temporarily into the back of the door.



Refit the Totalizer Display cables (here, two are shown). Tidy any excess cable temporarily into the back of the Right Door.

**127. FIT RIGHT DOOR TO PUMP:**

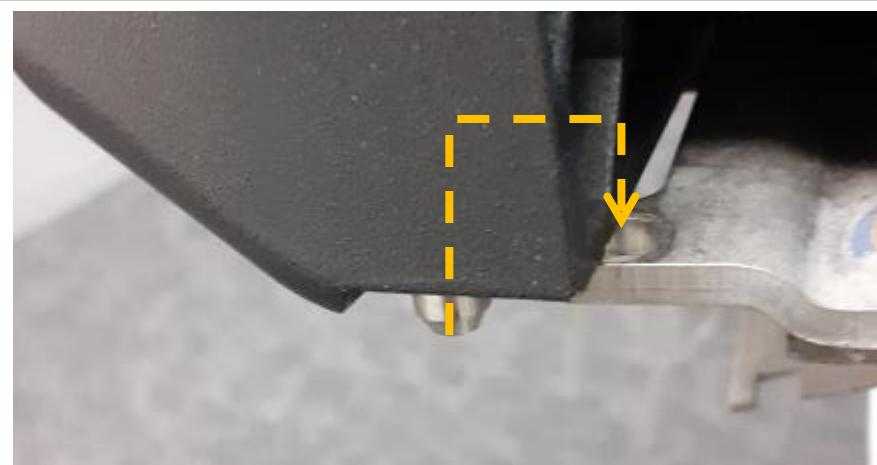
Using a #2 Phillips screwdriver, temporarily remove both M4X20 screws and washers holding the rubber sealing block in place on the top corner of the Right Door. If you are installing the door onto a Vista 3V, retain both screws and washers. If you are installing onto a Vista 4V, retain one screw and washer and discard the others.



Remove the two screws and washers securing the rubber sealing block.

## Retrofit G7 8 inch Wayne Vista 4V &amp; 3V with 4V door Wide (US) Installation Guide

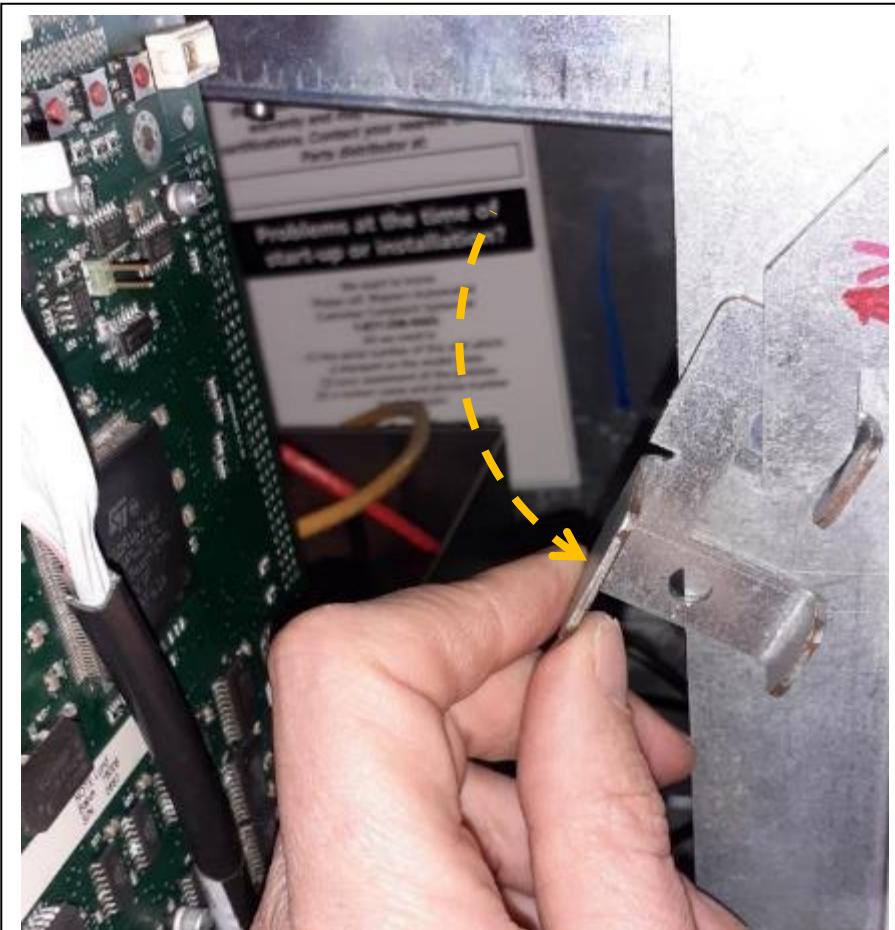
- 128.** With the Left Door open, align the Right Door assembly, squarely with the opening in the pump and insert in place. Lift the door slightly on the right hand side to lift the bottom hinge pin into the bottom hinge bracket. If Totalizers are fitted, this door goes onto Side A of the dispenser.



Lift hinge pin up and over into bracket.

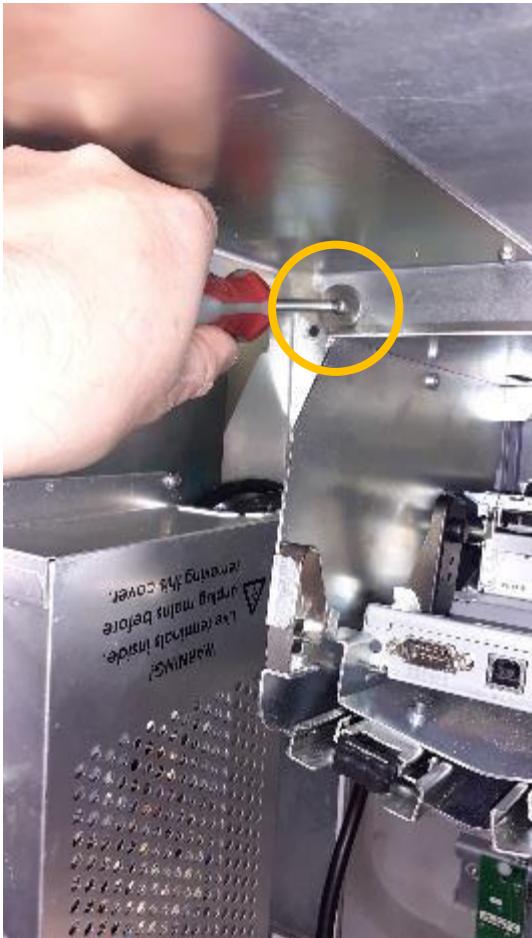
## Retrofit G7 8 inch Wayne Vista 4V &amp; 3V with 4V door Wide (US) Installation Guide

- 129.** Close the latch lever. It may be helpful to not fully lock the latch lever down at this point as it allows a small amount of movement to assist alignment.



Close latch lever.

## Retrofit G7 8 inch Wayne Vista 4V &amp; 3V with 4V door Wide (US) Installation Guide



Tighten M4X20 screw. For a Vista 4V as shown, use only the top screw position. For a Vista 3V, install both screws.

**130.** Insert the screws and washers removed in Step **127** into the top corner from the other side of the pump.

If you are installing on a Vista 3V, use both screws and washers. If you are installing on a Vista 4V, use the top screw position and only one screw and washer only.

Remove any silicone sealant residue that may be under the washer area.

Using a Philips#2 screwdriver tighten the screws and washers.

After tightening the screws, check if the silicone around the joint has been disturbed. If it has moved or lost adhesion, remove any detached or loose silicone and reapply outdoor RTV silicone sealant over the joint area.



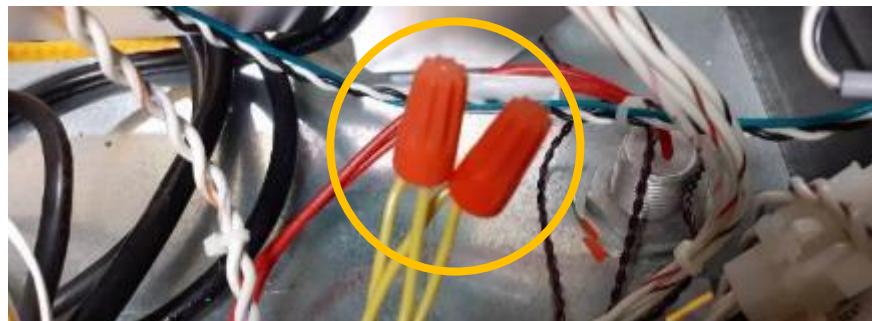
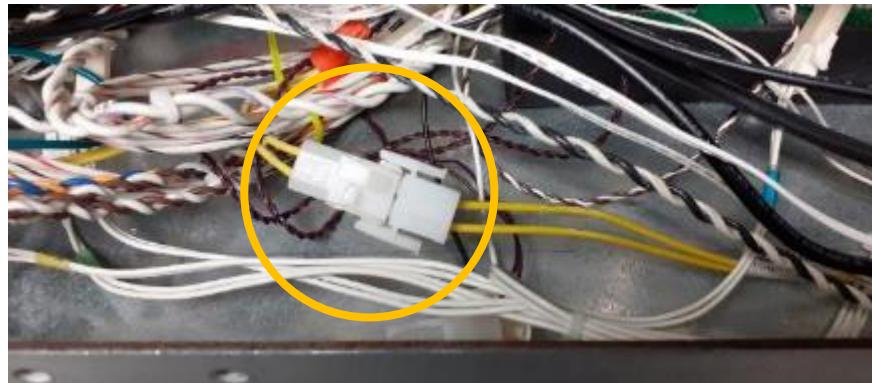
**131.** Fully close the Right Door latch. If you are installing on a Vista 4v, re-insert the Latch Locking pin removed in Step **49**.

## Retrofit G7 8 inch Wayne Vista 4V &amp; 3V with 4V door Wide (US) Installation Guide

- 132.** Reconnect the Totalizer Display cables to the CPU board (disconnected in Step **50**) and reconnect the Attendant Call Button cables to the connectors and terminals (disconnected in Step **125**).



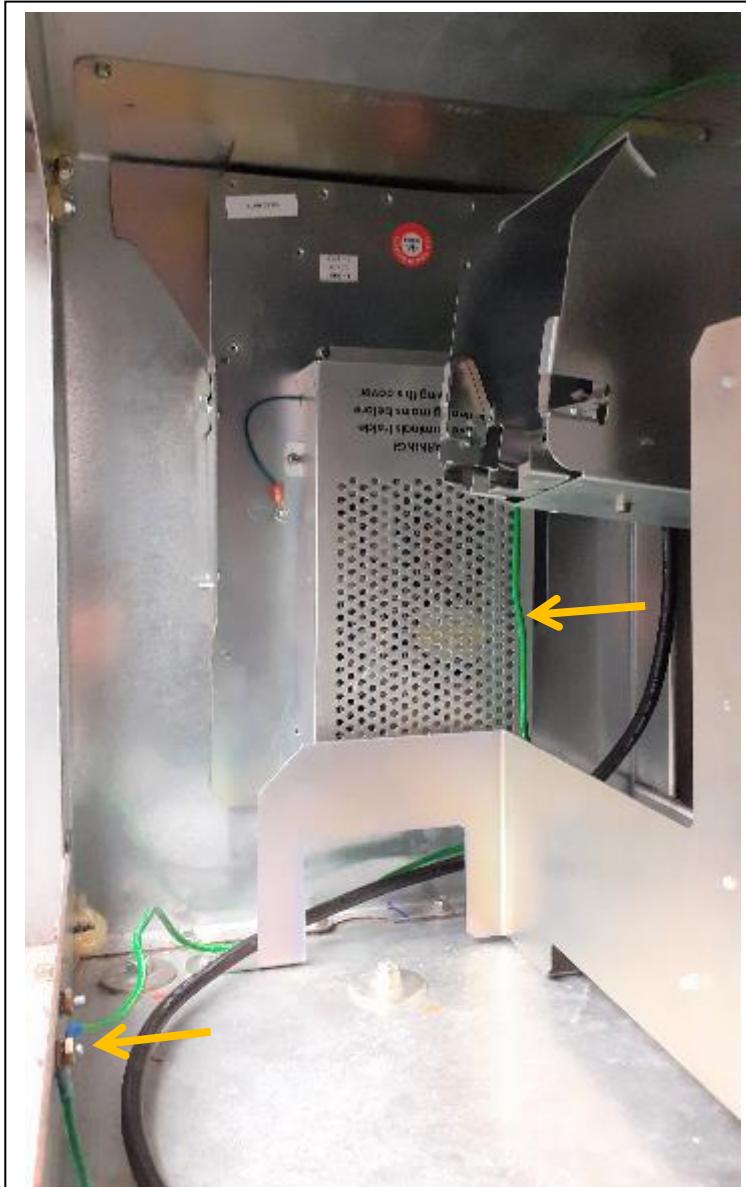
Reconnect Totalizer Cables to CPU board.



Reconnect Attendant Call Button cables.

## Retrofit G7 8 inch Wayne Vista 4V &amp; 3V with 4V door Wide (US) Installation Guide

- 133.** Connect the grounding cable from the Printer Assembly to one of the existing grounding screws and nuts on the pump chassis



Printer Grounding Cable Connection.

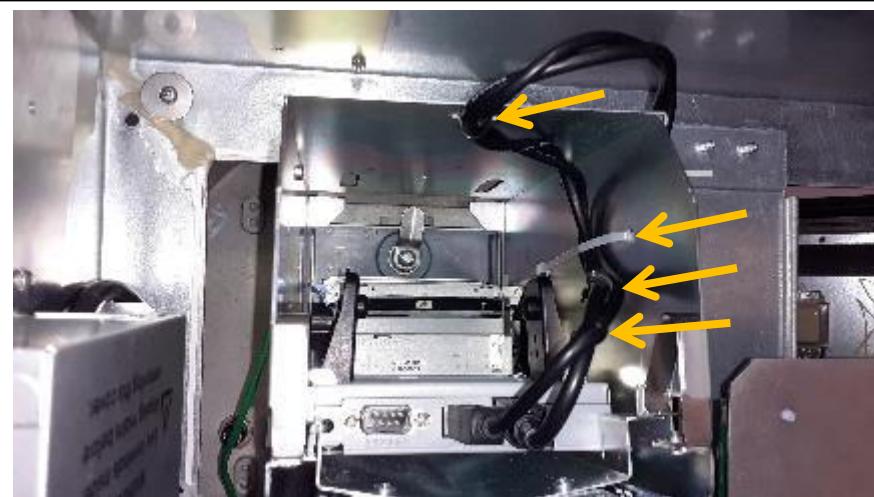
## Retrofit G7 8 inch Wayne Vista 4V &amp; 3V with 4V door Wide (US) Installation Guide

- 134.** Obtain the Printer Cables fed through the trunking in Step 122 and reconnect onto the rear of the Printer, same as how they were connected in step 48.



Printer Cable Reconnections.

- 135.** Unlock the Printer door and pull the printer all the way forwards. Loop the cables to the side and the top of the Printer housing and secure with cable ties. Ensure there is enough slack in the loop of cable to allow free movement of the printer in and out of the housing and that the cables do not catch on any sharp edges. Ensure the cables are clear of the paper roll. When cables are clear, re-lock the Printer door.



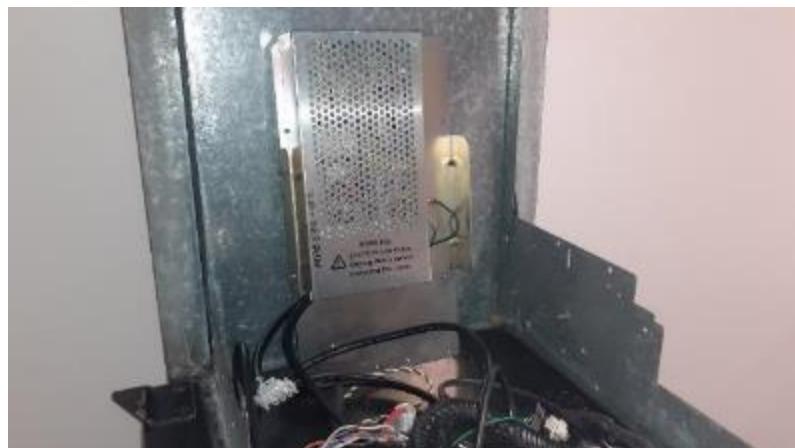
Cable tie Printer cables clear of obstructions.



Cable tie Printer cables clear of obstructions.

If you are working on Side A of a double-sided pump, repeat Steps **125** to **135** on Side B of the pump. If you are working on a single sided pump, refit the door on Side B if this was removed for accessibility.

If you are working on a Vista 4V pump, continue to Step **138**.



Place PSU Assembly EZ0703 inside pump.

#### **136. FOR VISTA 3V PUMPS:**

Place the PSU Assembly EZ0703 inside the pump.

## Retrofit G7 8 inch Wayne Vista 4V &amp; 3V with 4V door Wide (US) Installation Guide



Attach PSU Assembly EZ0703 inside pump.

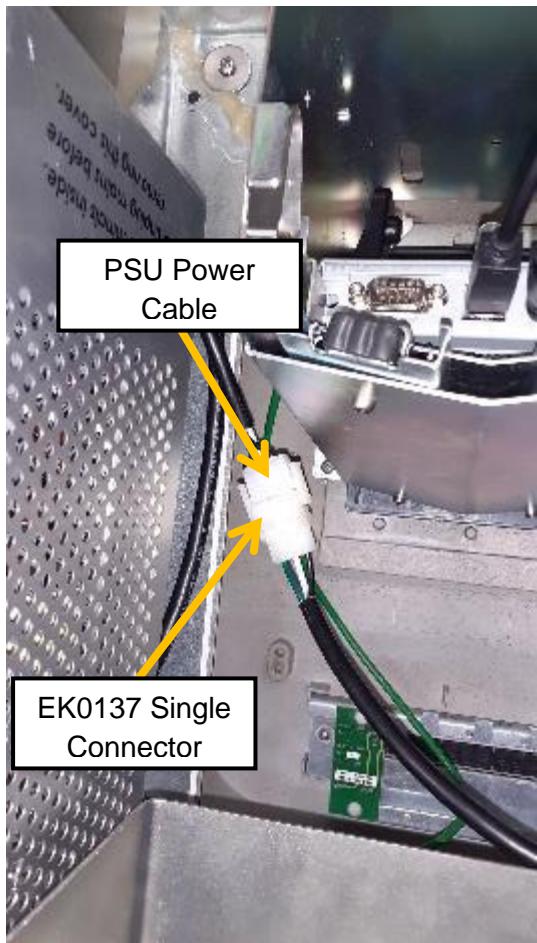
Three screw locations circled. Side A shown.

**137. FOR VISTA 3V, FASTEN PSU ASSEMBLY TO LEFT SIDE WALL.**

Using a Phillips #2 screwdriver and three MS0262 screws from the Fastener Kit (circled), attach PSU Assembly EZ0703 to the left side pump side wall.

If you are working on Side A, repeat Steps **136** and **137** for Side B. If it is a single sided pump or you have installed the Power Supply onto Side B, continue now to Step **138**.

## Retrofit G7 8 inch Wayne Vista 4V &amp; 3V with 4V door Wide (US) Installation Guide



Connecting the Power Adapter Cable  
(EK0137)

**138. CONNECT PSU TO RELAY BOARD.**

The Power Adapter Cable EK0137 has two connections at one end and a single connection at the other.

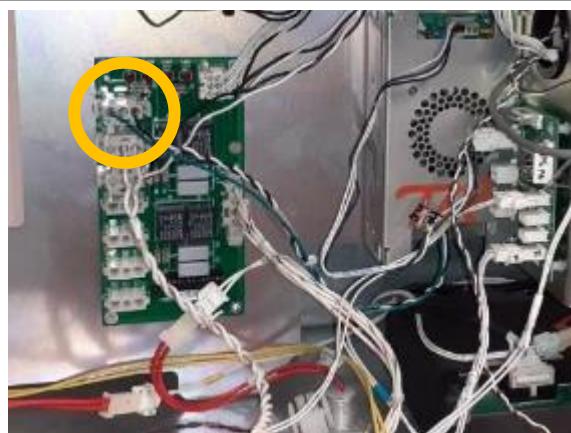
Connect the single connection end into the mains connection on the PSU Assembly (arrowed).

Where two PSUs are fitted, repeat this Step for both PSUs before proceeding to Step **139**. In other words, this connection Step applies to Side A of all pumps and to Side A and B of a double sided pump.

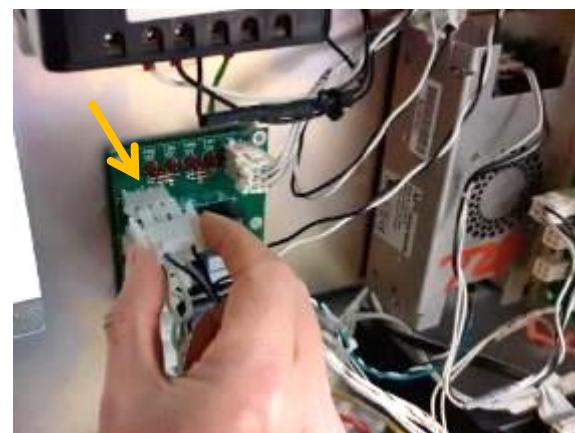
Example shown at left is a Vista 4V, however, the cable connections are the same for a Vista 3V.

## Retrofit G7 8 inch Wayne Vista 4V &amp; 3V with 4V door Wide (US) Installation Guide

- 139.** From Side A, unplug the mains connector from the Relay Board. In a Vista 3V this is located at the bottom of the electrical enclosure (circled below). In a Vista 4V this is located on the replacement Panel inside the dispenser cabinet.
- If working on Side A, that plug belongs to the dispenser.
  - If working on Side B, that plug belongs to Side A.
- Regardless of which side, unplug the connector.



Relay Board. Vista 4V location shown.



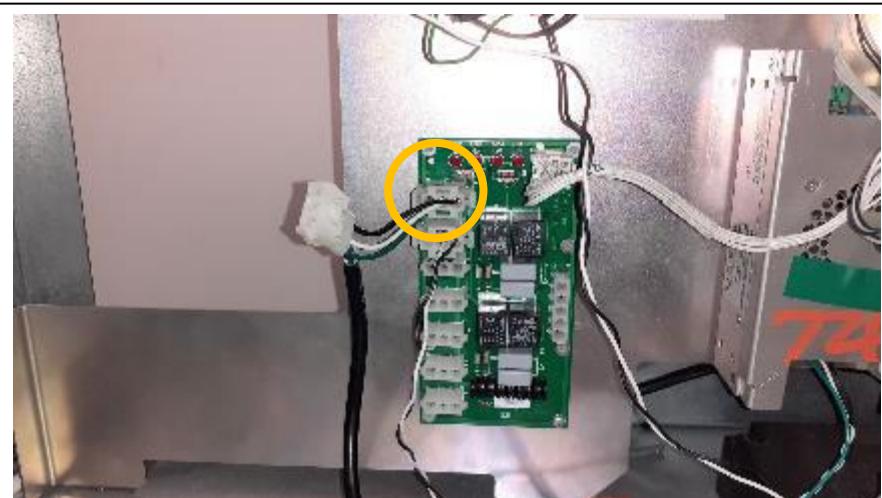
Unplug mains connector.



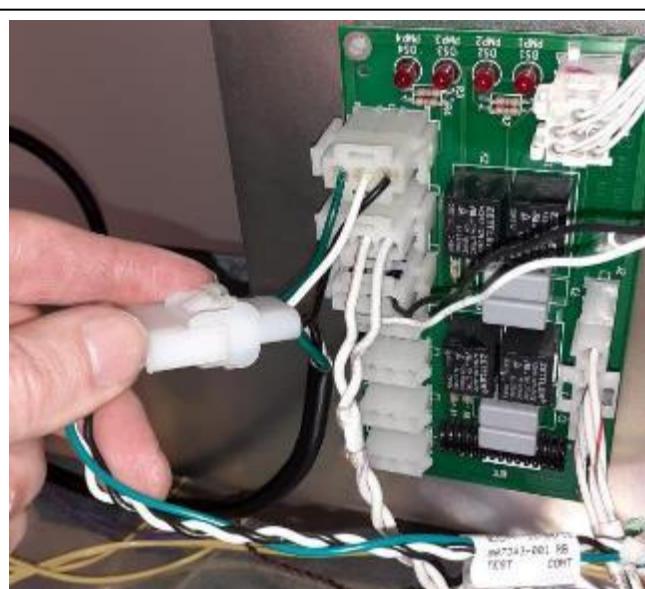
Relay Board location, Side A on a Vista 3V Wide Frame.

## Retrofit G7 8 inch Wayne Vista 4V &amp; 3V with 4V door Wide (US) Installation Guide

- 140.** Connect the Plug from the double-connector end of the EK0137 AC Mains cable into the vacated Socket on the pump's Relay Board. Reconnect the cable plug disconnected in Step **139** into the remaining open connector socket on EK0137. If you are working on Side A of a double-sided pump, repeat Steps **139** and **140** for Side B. If you are working on a single sided pump, proceed to Step **141**. **Note:** For a double-sided installation, you will finish with a daisy-chain of two cables between the pump's mains connector and the relay board.



Connecting the Power Adapter Cable (EK0137) to Relay Board



Reconnecting Power Supply to Relay Board in a daisy chain.

## Retrofit G7 8 inch Wayne Vista 4V &amp; 3V with 4V door Wide (US) Installation Guide

**141.** If you are working on a Vista 4V, proceed to Step **144**. If you are installing on a Vista 3V dispenser, clean an area about 50mm or two inches deep across the full width of the lid on top of the dispenser with Isopropyl Cleaning Alcohol. Allow to dry. A short step ladder may be required.

**WARNING.**

Ensure the step ladder is stable and all manufacturer safety warnings for locking braces and placement on the ground are correctly followed to prevent fall injuries. Do not over-reach.



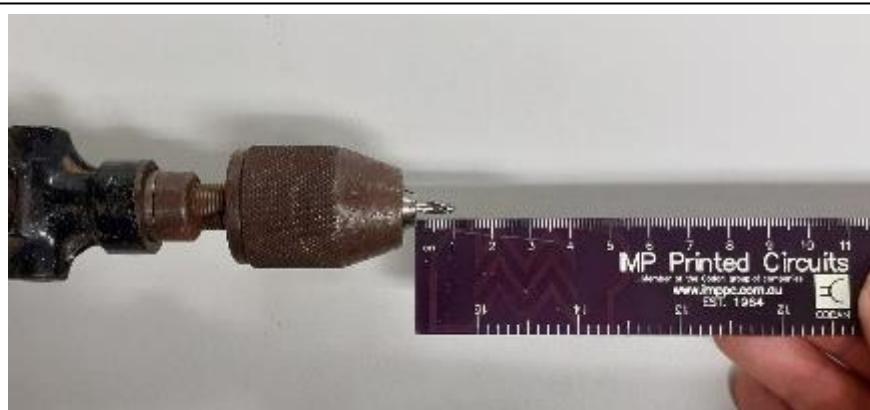
View looking down on lid and Flashing

Obtain the Flashing part MP1120. Peel the protective film off the adhesive tape and place the flashing on top of the dispenser, aligning the adhesive tape with the front edge. Press down firmly.

**142.** Using the screw holes at each end as a guide, drill a 3.0mm pilot hole through the lid of the dispenser. Adjust the depth of the drill bit to 10mm. Remove all swarf.



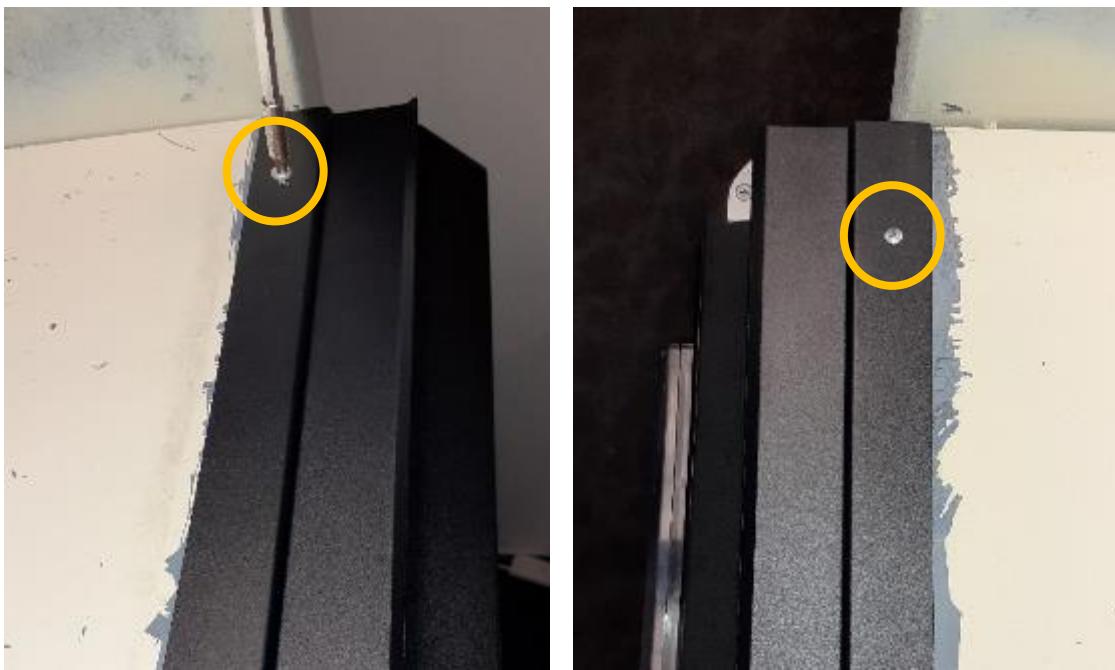
**WARNING:** Electric power tools are not permitted on the forecourt.  
Either use a manual drill or a pneumatic drill.



Adjust drill bit depth to 10mm.

## Retrofit G7 8 inch Wayne Vista 4V &amp; 3V with 4V door Wide (US) Installation Guide

Once the pilot hole has been drilled, screw in the two fixing screws (MS0233) with a #2 Philips screw driver (These are self-drilling thread forming screws and can be screwed in by hand).



MS0233 screws as circled.

**143.** If you are working on Side A of a double-sided pump, repeat Steps **141** to Step **142** for Side B. If you have completed installing Side B, or if it is a single sided pump, go to Step **144**.

**144. WIRE TIDYING AND CLOSE UP**

Gather all loose wires (on both sides if necessary), neatly wrap them together with cable-ties and secure to the chassis. When all the cables have been installed, use cable ties to provide strain relief. For the 4V dispenser, utilize the eight self-adhesive cable clips (MF0046) supplied in the fastener kit (FK0046) from the electronics bracket kit (RF00078-XX) around the new bracket area. For all dispensers, there may be spare self-adhesive cable clips MF0046 left over to optionally assist with general tidying, use as suitable.

Also ensure that all cables are tidy and cannot become snagged or pinched when the door of the cabinet is opened and closed.

**145.** Close the Left Door and ensure the door is fastened using the special Wayne Security Key. Repeat this for both sides.

If locked, unlock the Printer access door to access the Printer and continue to the final First Power Up stage. Lock the door again when complete. Repeat for each side installed.



**WARNING – Local regulations may also require that the installation is electrically tested and certified BEFORE switch-on.**

## 6 First Power-Up

Once the installation is complete and the wiring is certified (if necessary), power may be applied. The G7-8 OPT takes a couple of minutes to complete its start-up phase, during which several information screens will be presented.

The terminal will display the following screen whilst attempting to connect to the LAN. This screen will persist until a connection can be made (Note: reported Firmware version may vary):



If the terminal is successful in connecting to the LAN it will display the screen shown at the left and then the rest of the start-up sequence will continue:

