

Retrofit G6-300 + InvencoLink Wayne Vista 4V & 3V with 4V door (US) Installation Guide

Kit Part Numbers:

RF00001-XX	Wayne Vista 4V, Black
RF00002-XX	Narrow Wayne Vista 3V with 4V door, Black
RF00003-XX	Narrow Wayne Vista 3V with 4V door, Black
RF00056-XX	Wayne Vista 4V, Other colors
RF00083-XX	Narrow Wayne Vista 3V with 4V door, Other colors
RF00084-XX	Wide Wayne Vista 3V with 4V door, Other colors

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Release History

Version	Prepared by	Date	Change description
0	Michael Doh	04-Dec-2019	Based on DCV-00472 R00; initial version for UL approval
1	Michael Doh	05-Dec-2019	Correct cable assembly part number and removed steps relating to G6
2	Michael Doh	09-Dec-2019	Corrected typing errors
3	Michael Doh	26-Mar-2020	New kit and sub-assembly part numbers, removed 4V double side installation
4	Michael Doh	27-Mar-2020	Changed PSU plate mounting screws from MS0154 to MS0262
5	Michael Doh	07-Apr-2020	Corrections relating to fastener kit, panel assembly part number and PSU assembly installation for 4V.
6	Shaun Craill	8-Apr-2020	Revised PSU plate assembly for the RF00001-XX kit.
7	Michael Doh	01-May-2020	Roll back PSU plate assembly revision and 4V double side installation removal
8	Michael Doh	12-Jul-2020	Re-implement the PSU plate updates (revision 6) and add heater cover install stage
9	Michael Doh	03-Aug-2020	Corrections relating to 4V PSU install being separate for each side
10	Michael Doh	12-Oct-2020	Added alternate color painted kits
11	Michael Doh	03-Dec-2020	Corrected image format error
12	Jojie Adigue	21-Jan-2021	Added optional part MP1129 (Totalizer bracket) in 4V Kit Narrow
13	Michael Doh	17-Feb-2021	Revised totalizer bracket installation description
14	Michael Doh	02-Mar-2021	Added new totalizer display standoff clip part

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1 Introduction

The documentation provides some basic guidelines for installing the G6-300 Outdoor Payment Terminal (OPT).

This Retro-Fit Kit can be installed into the following dispensers:

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

(Kit part number: RF00001-XX or RF00056-XX)

- Can be installed in both the narrow and wide dispenser types.
- 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 RF00033-XX (InvencoLink Converter) before installation into the dispenser. The process is covered in §5 Pre-Installation Procedure of this instruction, by reference to the instructions in that Kit. (For a double-sided installation, two of these Kits are required.)
- It also requires the installation of UL Listed by Report Retrofit Kit Part Number RF00069-XX (Heater cover Wayne Vista 4V) just before the PSU assembly installation. The process is covered in step 80 of §6 Installation Procedure of this instruction, by reference to the instructions in that Kit (Only one heater cover kit is required per dispenser, regardless of single or double sided).

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

(Kit part number: RF00002-XX or RF00083-XX)

Ensure to verify that this pump has a UL Listed by Report Retrofit Kit Part Number WU001591-0001


- 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 RF00033-XX (InvencoLink Converter) before installation into the dispenser. The process is covered in §4.2 Pre-Installation Procedure of this instruction, by reference to the instructions in that Kit.
- For a double-sided installation, two of these Kits are required.

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

(Kit part number: RF00003-XX or RF00084-XX)

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

- 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 RF00033-XX (InvencoLink Converter) before installation into the dispenser. The process is covered in §4.2 Pre-Installation Procedure of this instruction, by reference to the instructions in that Kit.
- For a double-sided installation, two of these Kits are required.

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1.1 Tools Required

The following tools are required to mount the retrofit kit:

- Wayne Security Door Key or T40 Security Torx Key.
- Side Cutters.
- Philips #1 Screwdriver.
- Philips #2 Screwdriver.
- Socket set, including 3/8", 7/16", 9/16" 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.
- 8mm drill bit.
- Permanent marker pen.
- Sharp knife or plumbers pipe deburring tool.
- Small mallet.
- 3/4" or 19mm open spanner.
- 1/4" nut driver.
- Glass cleaner and clean soft cloths.
- Scotch-brite pad or similar.
- RTV Outdoor Silicone Sealant.
- Flat scraper blade.
- 3mm Hex Key.
- 4" or 100mm Cable Ties.
- Quick release clamps.



WARNING

Do NOT use power tools if working on a fuel station forecourt.

Any spark could cause an explosion.

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1.2 Installation Kit Contents

Single or both sides of a Wayne Vista 4V dispenser

Kit part number: RF00001-XX (Black) or RF00056-XX (Other colors):

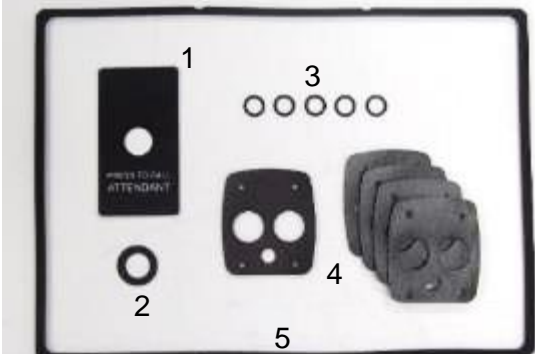
Unpack the G6-300 Vista 4V single side Retro-Fit Kit (RF00001-XX or RF00056-XX) and check that all of the parts listed below are present. Also refer to the pre-installation procedure (section 5) relating to the communication method parts.



1 x G6-300 OPT mounted on RFK Door Assembly (RP00001-XX or RP00056-XX)

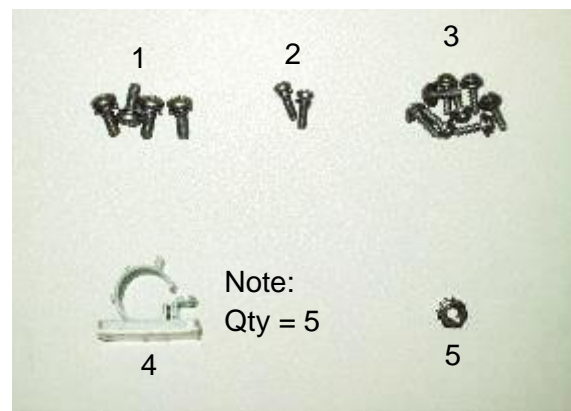


1 x PSU Plate Assembly with cables (EZ0654)



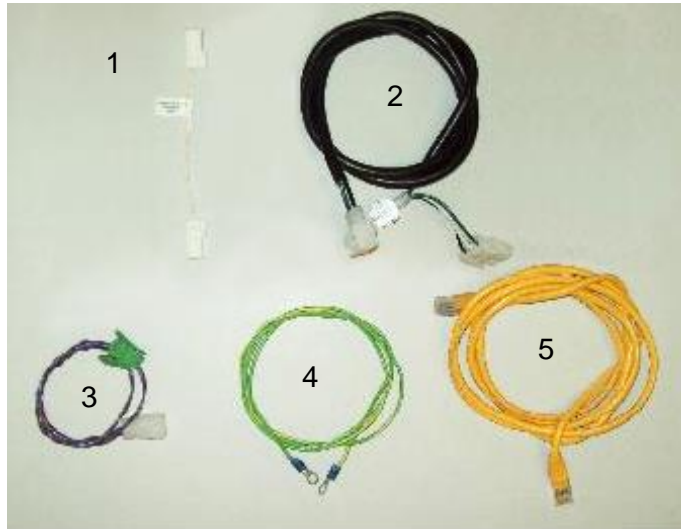
1 x Gasket Kit (GK0001)

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



1 x Fastener Kit (FK0033)

1. MS0160 M4X10 SEMS Screw. Qty=4
2. MS0148 M3X10 SEMS Screw. Qty=2
3. MS0220 #4-20 Screw & Washer. Qty=8
4. MF0046 self-adhesive cable tidy. Qty=5
5. MN0029 #8-32 SEMS Nut. Qty=1
6. MS0262 8-32 x 3/8" Screw. Qty = 4

Retrofit G6-300 + InvencoLink Wayne Vista 4V (US) Installation Guide**1 x Cable Kit (IA0081)**

1. EK0202 Fuel Grade LED Cable 0.1m. Qty=1
2. EK0137 1.0m Pump to PSU Power Adapter Cable. Qty=1
3. EK0127 0.6m Pump to Invencolink Data Adapter Cable. Qty=1
4. EK0132 Earth cable assembly, 8G ring to 8G ring, 1.5mm², 1.2m
5. EK0131 2.5m Yellow CAT-5 Cable. Qty=1

Optional Parts**1 x Totalizer Bracket (MP1129)****8 x Snap fit nylon clips (MO0042)**

NOTE: for this kit, MS0262 in the fastener kit FK0033 is not required to be used. This item can be discarded.

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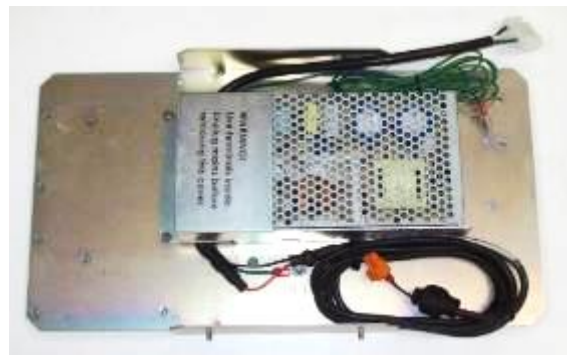
Single or both sides of a Narrow Wayne Vista 3V dispenser retrofitted with a 4V door
Kit part number: RF00002-XX (Black) or RF00083-XX (Other colors):

Unpack the G6-300 Narrow Vista 3V retrofitted with a 4V door Retro-Fit Kit (RF00002-XX or RF00083-XX) and check that all of the parts listed below are present. Also refer to the pre-installation procedure (section 5) relating to the communication method parts.

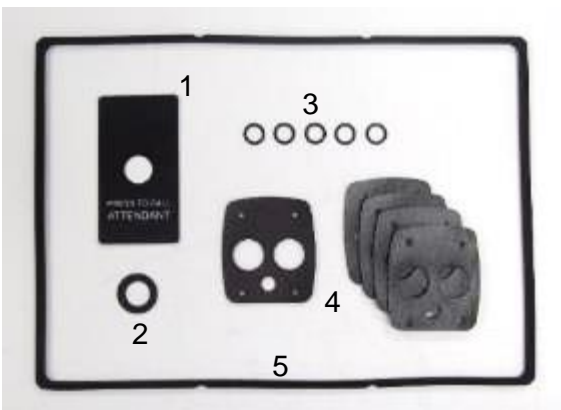
One of each of the following parts per each side installation.



1 x G6-300 OPT mounted on RFK Door Assembly (RP00002-XX or RP00083-XX)

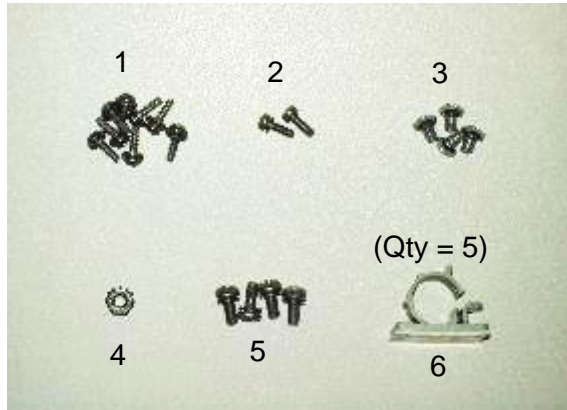


1 x PSU Plate Assembly with cables (EZ0631)



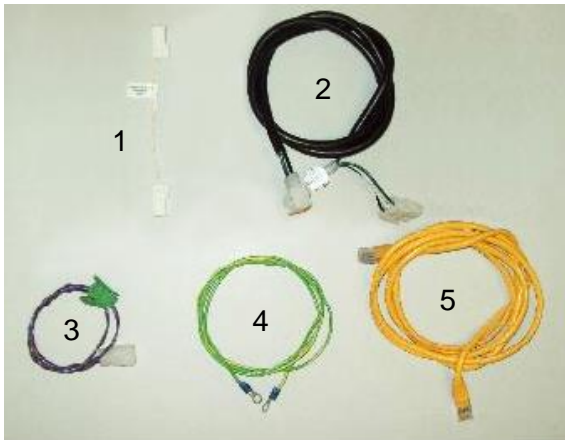
1 x Gasket Kit (GK0001)

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



1 x Fastener Kit (FK0033)

1. MS0220 #4-20 Screw & Washer. Qty=8
2. MS0148 M3X10 SEMS Screw. Qty=2
3. MS0262 8-32 x 3/8" Screw. Qty = 4
4. MN0029 #8-32 SEMS Nut. Qty=1
5. MS0160 M4X10 SEMS Screw. Qty=4
6. MF0046 self-adhesive cable tidy. Qty=5

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1 x Cable Kit (IA0081)

1. EK0202 Fuel Grade LED Cable 0.1m. Qty=1
2. EK0137 1.0m Pump to PSU Power Adapter Cable. Qty=1
3. EK0127 0.6m Pump to Invencolink Data Adapter Cable. Qty=1
4. EK0132 Earth cable assembly, 8G ring to 8G ring, 1.5mm², 1.2m
5. EK0131 2.5m Yellow CAT-5 Cable. Qty=1



1 x Narrow Frame Electronics Bracket (EZ0611)

The internal printer bracket which supports the electronics needs to be replaced.

Optional Parts



1x Totalizer Bracket (MP1129)



8 x Snap fit nylon clips (MO0042)

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Single or both sides of a Wide Wayne Vista 3V dispenser retrofitted with a 4V door Kit part number: RF00003-XX (Black) or RF00084-XX (Other colors):

Unpack the G6-300 Wide Vista 3V retrofitted with a 4V door Retro-Fit Kit (RF00003-XX or RF00084-XX) and check that all of the parts listed below are present. Also refer to the pre-installation procedure (section 5) relating to the communication method parts.

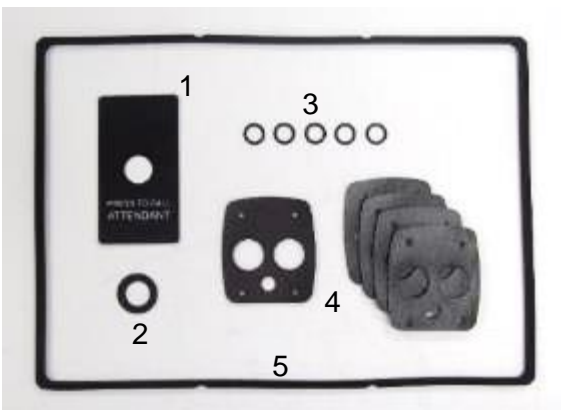
One of each of the following parts per each side installation.



1 x G6-300 OPT mounted on RFK Door Assembly (RP00003-XX or RP00084-XX)

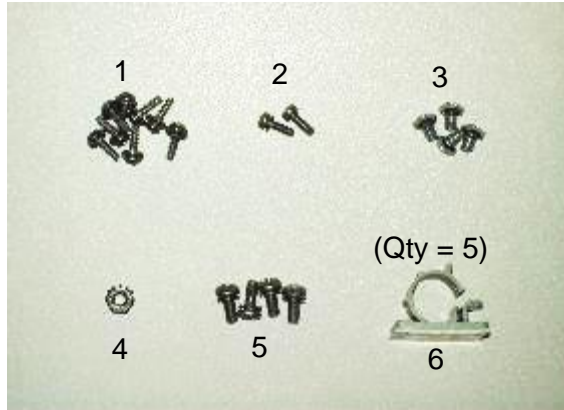


1 x PSU Plate Assembly with cables (EZ0631)



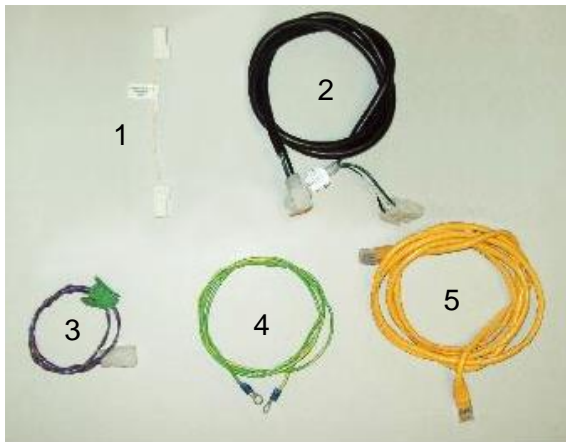
1 x Gasket Kit (GK0001)

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



1 x Fastener Kit (FK0033)

1. MS0220 #4-20 Screw & Washer. Qty=8
2. MS0148 M3X10 SEMS Screw. Qty=2
3. MS0262 8-32 x 3/8" Screw. Qty = 4
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1 x Cable Kit (IA0081)

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3. EK0127 0.6m Pump to Invencolink Data Adapter Cable. Qty=1
4. EK0132 Earth cable assembly, 8G ring to 8G ring, 1.5mm², 1.2m
5. EK0131 2.5m Yellow CAT-5 Cable. Qty=1



1 x Wide Frame Electronics Bracket (EZ0633)

The internal printer bracket which supports the electronics needs to be replaced.

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2 Safety & Compliance Information

This section introduces the hazards and safety precautions associated with installing, inspecting, maintaining or servicing G6-300 OPT. 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 G6-300 OPT.


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

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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.

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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:

- 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).

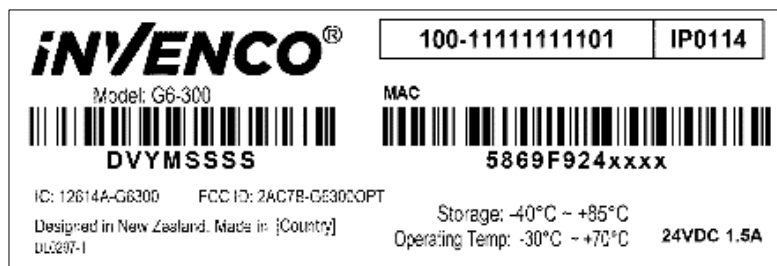
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IMPORTANT: Oxygen may be needed at scene if gasoline has been ingested or inhaled. Seek medical advice immediately.

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 G6-300 OPT 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.

3.2 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.

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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 Door
- The Printer
- The Printer Bracket
- 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 'Wide Frame' or Narrow Frame' dispenser, and if it 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 Narrow Frame Vista 4V Pump



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.



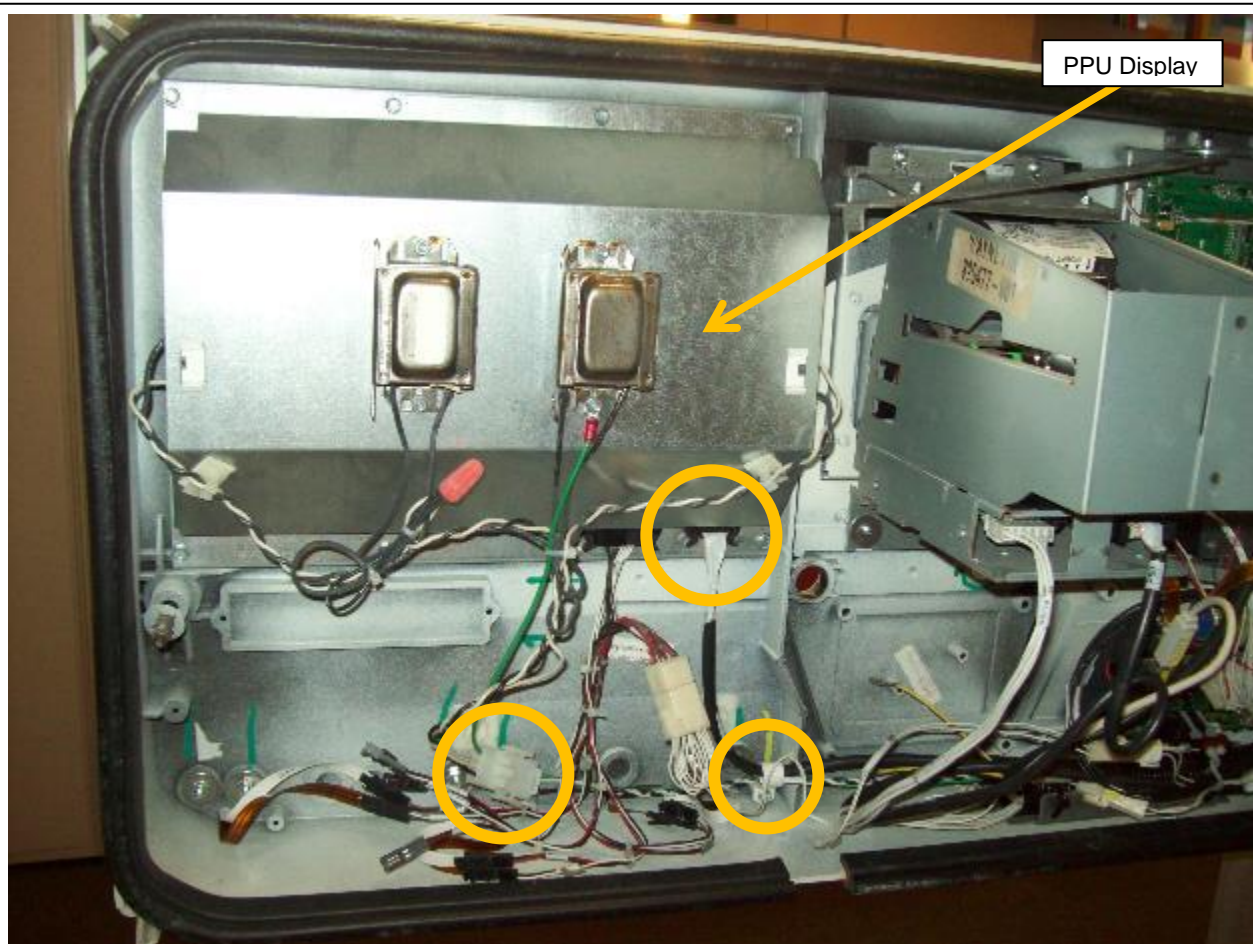
Using Wayne Key



Alternative: Use T40 Security Torx Key

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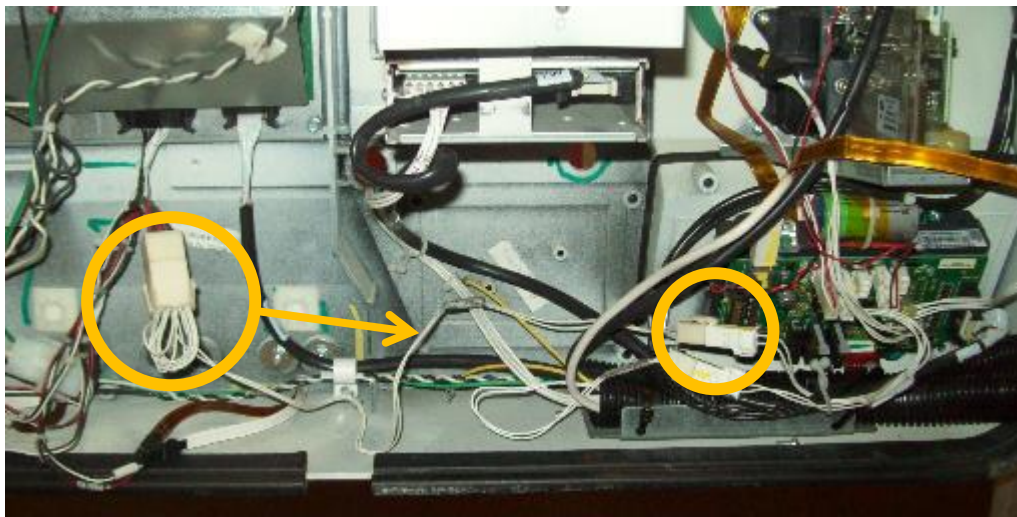
5. Locate and disconnect the Power Supply cable and the Communications cable to the PPU Display (label these cables as they will be reconnected later), remove any cable clips or ties securing these cables.



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 1/4" socket or nut-driver.

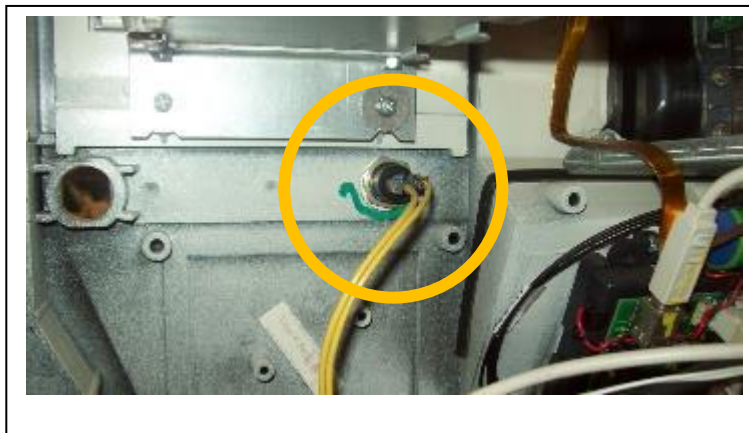
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6. Check if the large white 12 pin connector to the fuel grade select switches has a pair of white cables leading towards the hinge side of the door. If it does, trace these to the white 2 pin connector and disconnect (label this connector as it will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

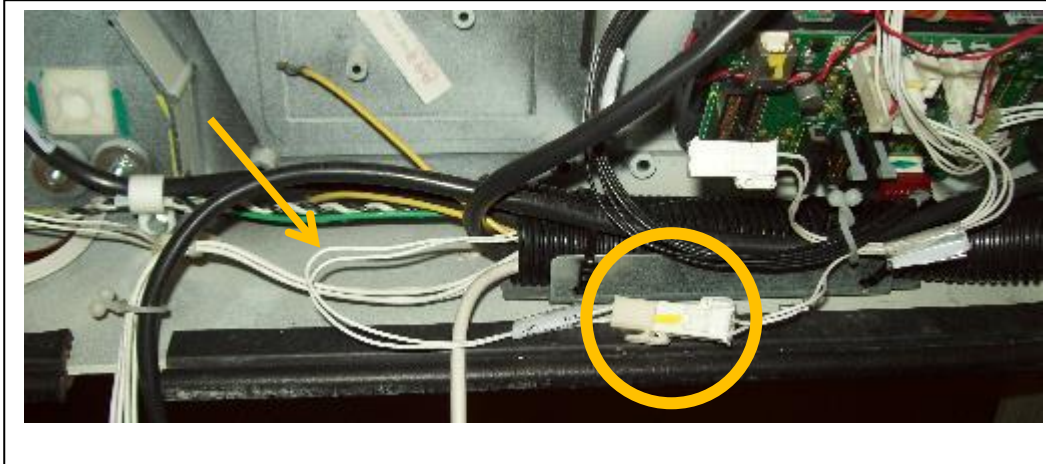


- 9.** Locate and disconnect the USB cable off the keypad. This cable will not be reconnected, and will be discarded later when the trunking cable ties have been removed.

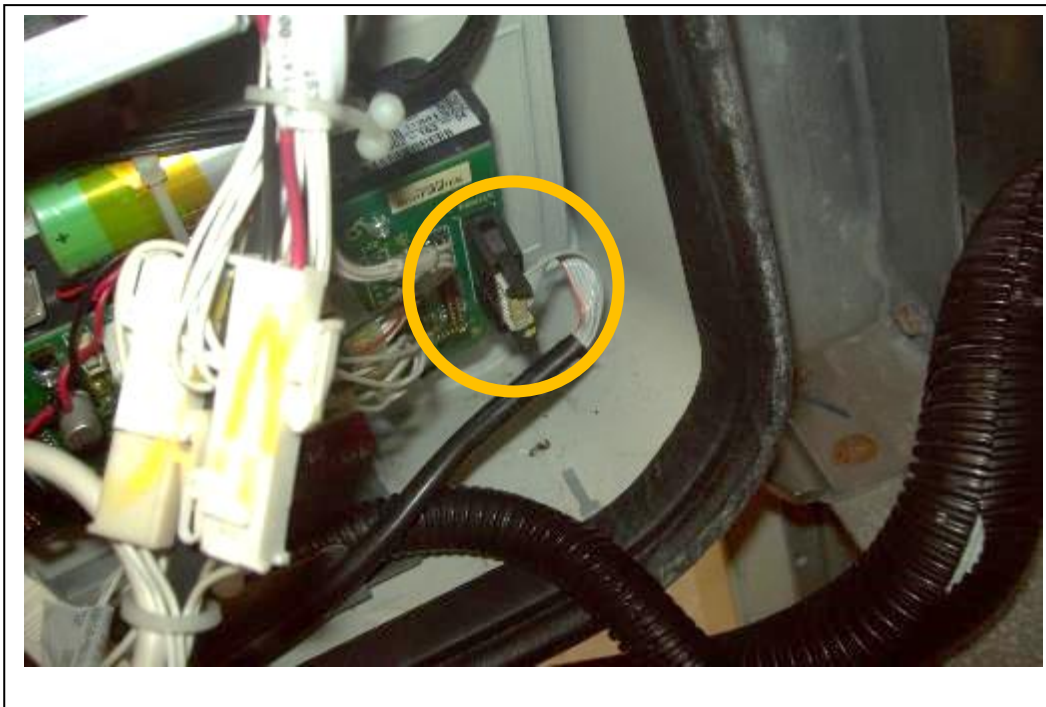


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- 10.** Locate and disconnect the white two pin cable coming out of the wiring harness trunking. Label the connector coming from the trunking as it will be reconnected later to the other end of cable EK0202 connecting to the Fuel Grade Selector Switches.

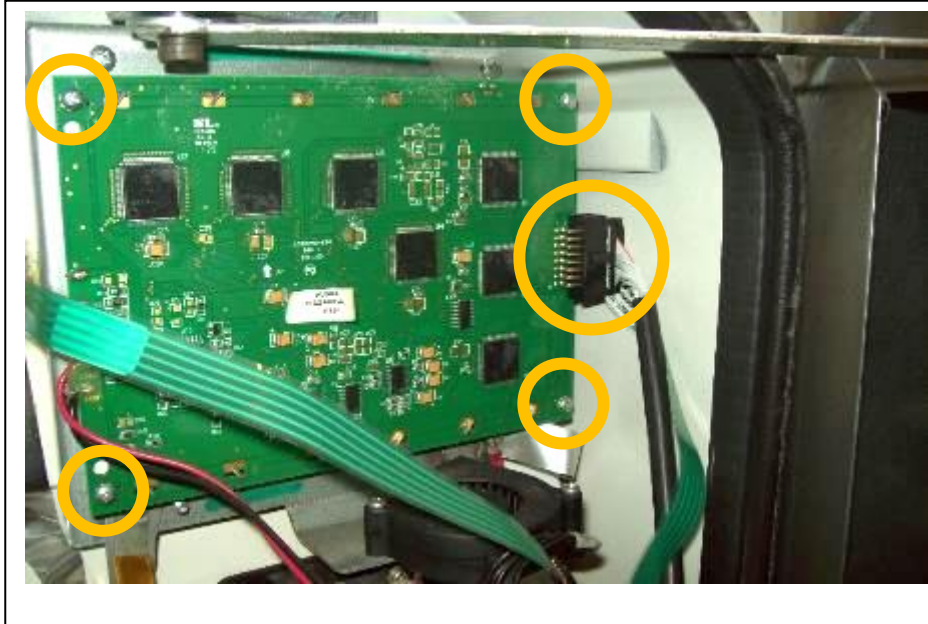


- 11.** Locate and disconnect the ten pin (p7) cable from keypad. This cable will not be reconnected, and will be discarded later when the trunking cable ties have been removed.



Retrofit G6-300 + InvencoLink Wayne Vista 4V (US) Installation Guide

- 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.

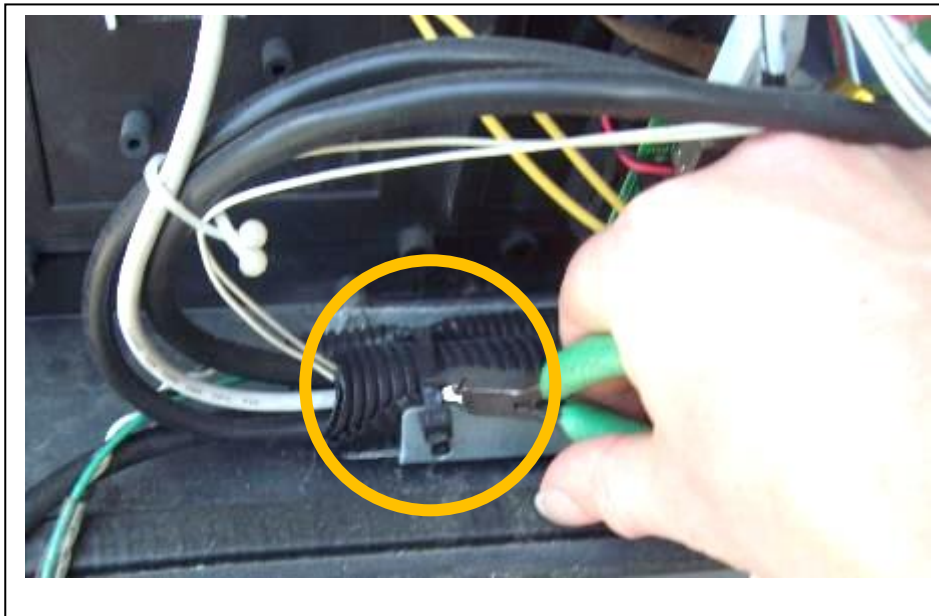


- 13.** Remove bonding flat cable for the door by unscrewing the screw on the dispenser frame. Replace the screw and nut since it is still holding other bonding/ground wires.



Retrofit G6-300 + InvencoLink Wayne Vista 4V (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.



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- 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).

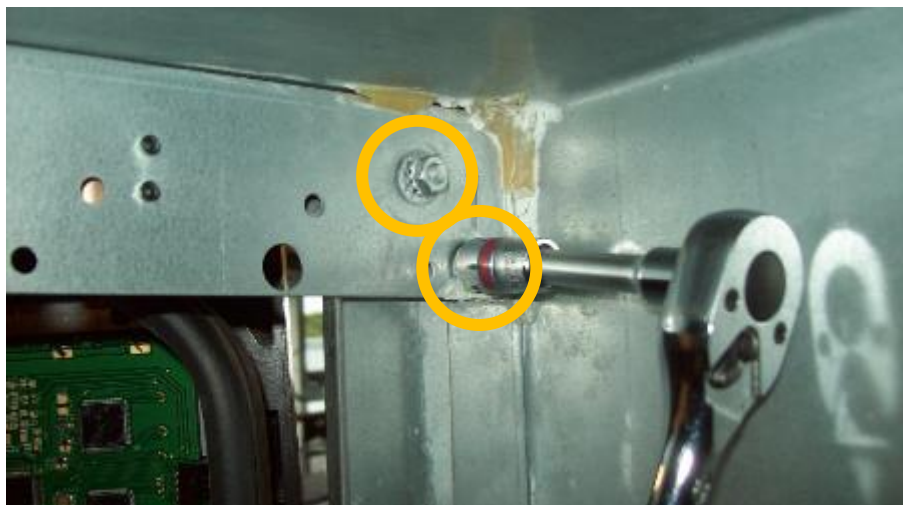


ABOVE: Tension cable door stay on a Vista 3V dispenser.



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 G6-300 + InvencoLink Wayne Vista 4V (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. Retain the door as parts from this door will now be refitted to the Retrofit Kit replacement door.



- 18.** Unlock the OPT door on the Retrofit Kit replacement door assembly (RP00001-XX, RP00002-XX, RP00003-XX, RP00056-XX, RP00083-XX or RP00084-XX). Carefully place the assembly face down on the panel beater stand (or similar protected work surfaces) with the OPT door hanging freely out of the way so the door can lay flat on the stand.



Retrofit kit replacement door assembly with G6-300 OPT mounted (RP00001-XX, RP00002-XX, RP00003-XX, RP00056-XX, RP00083-XX or RP00084-XX)

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.

If a drilling operation is required from the back of the door as described in the following steps then it will be easier to do if the OPT door is opened so the main door can lie flat and more stable on the work stand.

Remember to lock the OPT door again before turning the main door back over.

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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.



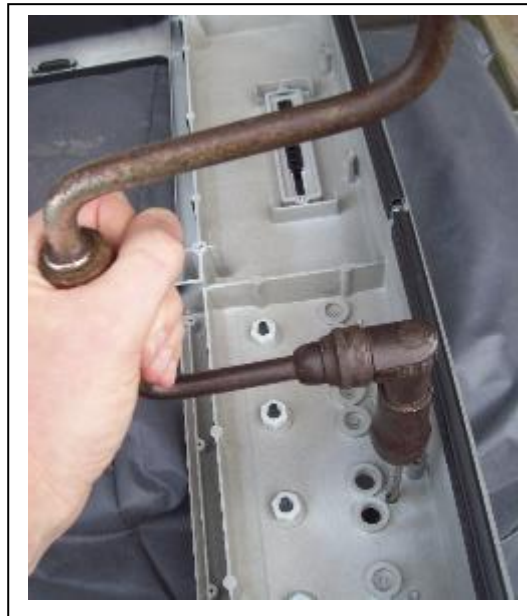
WARNING: Electric power tools are not permitted on the forecourt. Either use a manual drill, a pneumatic drill, or work on the replacement door outside of the hazardous location.

Retrofit G6-300 + InvencoLink Wayne Vista 4V (US) Installation Guide

- 20.** Use an 8 mm drill to drill out the hole at the bottom for each grade select button for the cable(s). Once all the inside holes have been drilled out, the OPT door can be relocked back in place.



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.** If an Attendant Call Button is fitted, use Decal DL0341 (or equivalent part) to mark the location of the hole to be drilled. Position the decal so it is aligned parallel to edges and centrally positioned on the flat space between the Totaliser window and the Fuel Grade Switch positions. Use a permanent marker pen to trace a circle around the decal hole for the drill position.



Retrofit G6-300 + InvencoLink Wayne Vista 4V (US) Installation Guide

22. Use a 5/8" or 15 mm spade drill to drill out the Attendant Call Button Hole.



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.

23. 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 G6-300 + InvencoLink Wayne Vista 4V (US) Installation Guide

- 24.** 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.



- 25.** 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.



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- 26.** 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.

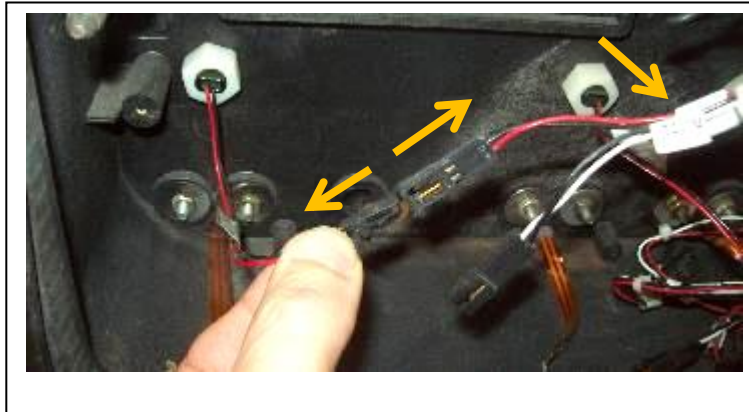


- 27.** From the inside of the door, refit the washers and nuts onto the Fuel Grade Selector Buttons. Tighten securely using a 11/32" socket.



Retrofit G6-300 + InvencoLink Wayne Vista 4V (US) Installation Guide

- 28.** 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.

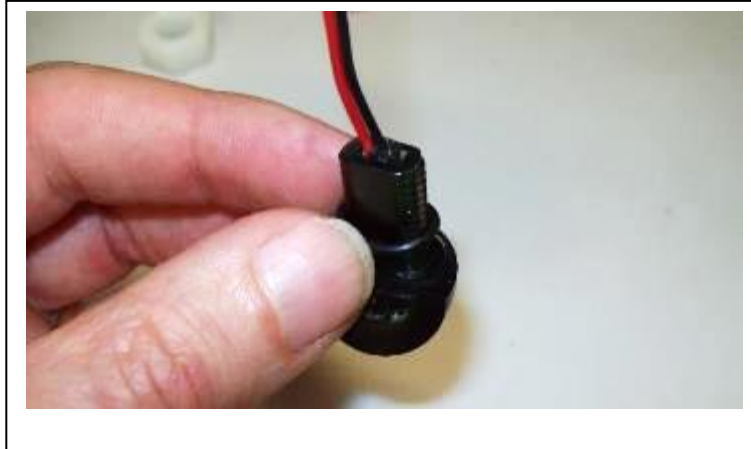


- 29.** Remove the nylon retaining nut and discard. Remove and retain the green LED housing, taking care not to dislodge the LED and cable from the housing.



Retrofit G6-300 + InvencoLink Wayne Vista 4V (US) Installation Guide

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



- 31.** 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.



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- 32.** 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 tight is sufficient to achieve a seal.



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 G6-300 + InvencoLink Wayne Vista 4V (US) Installation Guide

- 33.** If an Attendant Call Button is fitted on the original 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.

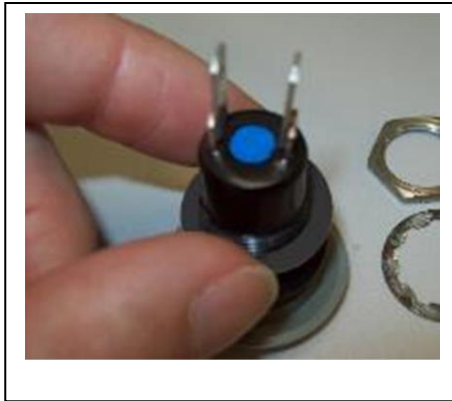


- 34.** Apply Decal DL0341 (or equivalent part) to the front of the replacement door assembly. Rub down firmly.

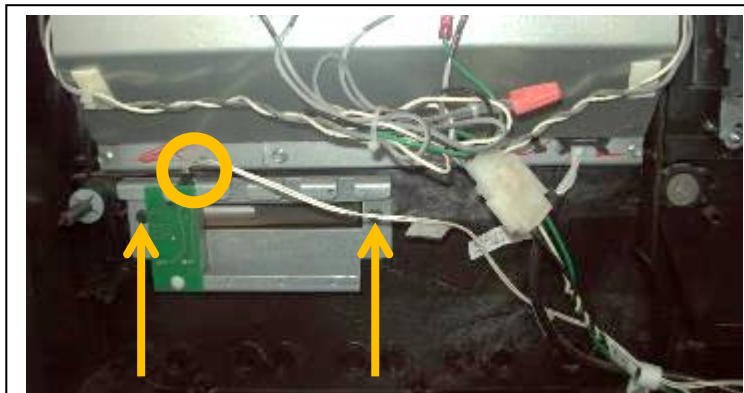


Retrofit G6-300 + InvencoLink Wayne Vista 4V (US) Installation Guide

- 35.** 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.



- 36.** If fitted, disconnect and retain the cables to the Totalizer Displays. Take particular note of which cable goes to which Totalizer (add labels if necessary). Remove and discard the two screws retaining the Totalizer Bracket using a 1/4" nut driver or socket. Remove and retain the Totalizer Bracket and Displays.



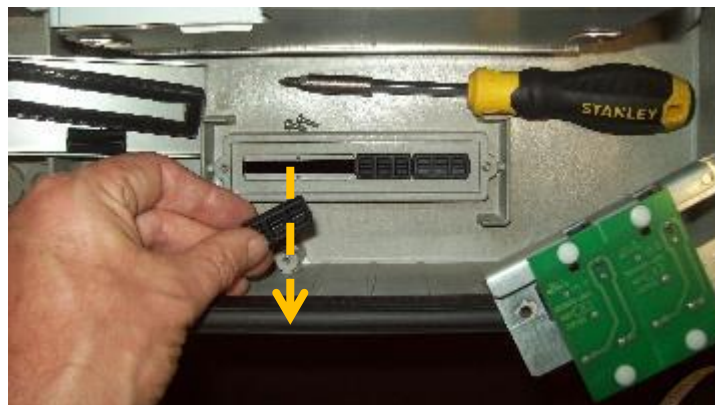
There may be between one to four Totalizer Displays fitted onto the bracket. Here one is shown.

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- 37.** 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. Lift out the window and gasket assembly and retain. Remove and discard the silicone Totalizer Plug parts as needed to match the location of the Totalizer Displays.



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



Remove Glass Window and Gasket. Remove Silicone Plugs as needed to match Totalizer positions. Here two are removed to match.

Retrofit G6-300 + InvencoLink Wayne Vista 4V (US) Installation Guide

- 38.** Replace the Totalizer Window and Gasket, with the Gasket face down and the Glass Window face up in the pocket.

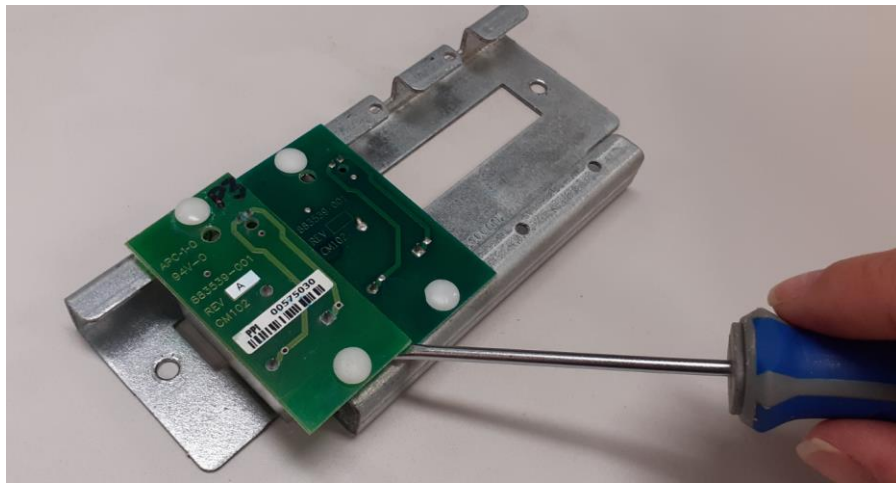


- 39.** Place the Totalizer Bracket and Display assembly into the replacement door and refit the M3 screws. Tighten down with a #1 Philips screwdriver. Optionally use the provided replacement totalizer bracket MP1129.

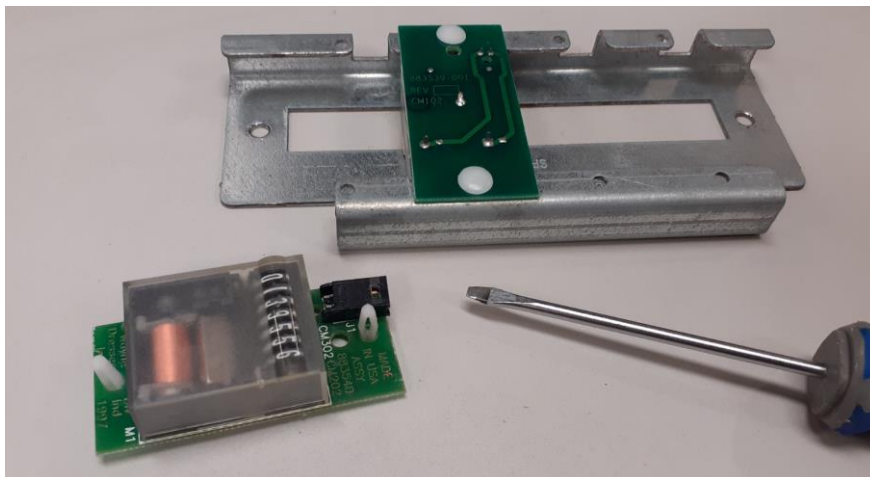


Optional replacement totalizer bracket (MP1129)

If the optional replacement totalizer bracket MP1129 is being used, first transfer the totalizer displays on to the new bracket in the same positions by carefully levering out the snap fit nylon clips with a small flat bladed screwdriver and re-fit on the MP1129 bracket.

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Lever out the snap fit nylon clips with a small flat bladed screwdriver

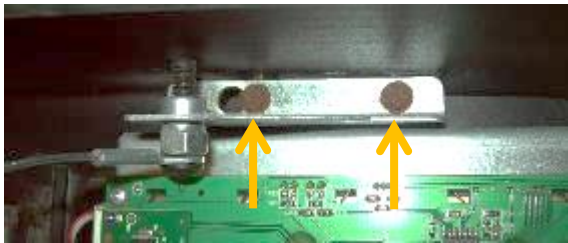


Re-fit the totalizer displays on the MP1129 bracket

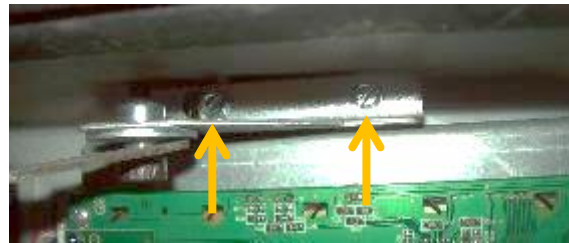
Note: If any of the existing snap fit nylon clips break during removal, replace with the spares provided with the kit - snap fit nylon clips (MO0042).

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- 40.** To swap over the Door Stay assembly, on the original door remove and discard the two screws securing the Door Stay bracket using a ¼" 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.

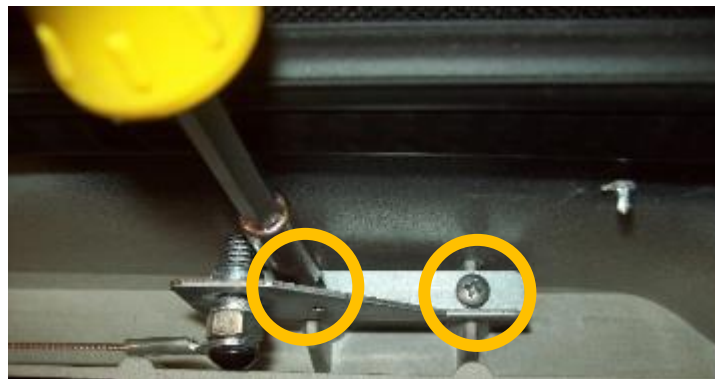


Tension Cable Type (Vista 3V dispenser converted to take a Vista 4V door)



Metal Strap Type (Vista 4V dispenser)

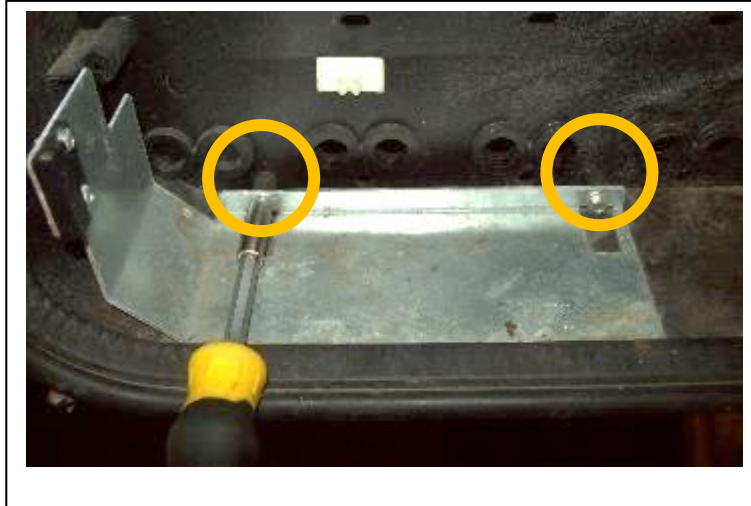
- 41.** To refit the Bracket assembly for the Door Stay onto the replacement door, attach with two M4X10 screws (MS0160) from the Fastener Kit using a Philips #2 screwdriver. Check orientation of the bracket and then tighten the screws securely.



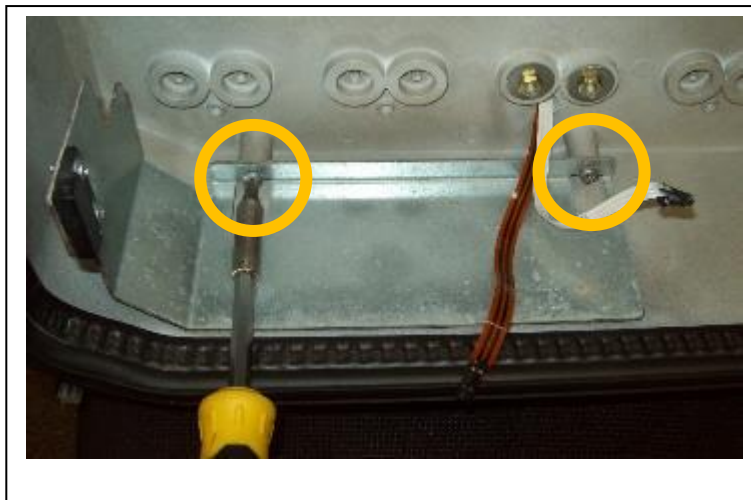
ABOVE: Tension Cable type shown from a Vista 3V converted to a Vista 4V door. For a Vista 4V, the same screws are used in the same location.

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- 42.** 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 ¼" nut driver or socket. Remove and retain the bracket.

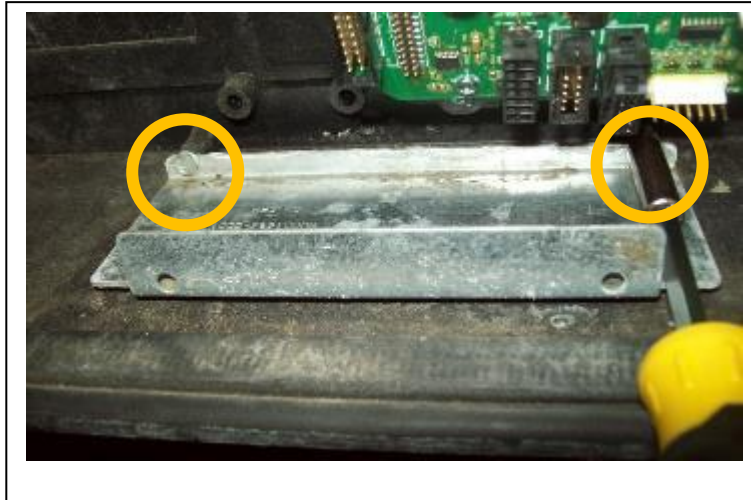


- 43.** To refit the Reed Switch Sensor Bracket onto the replacement door, attach with two M4X10 screws (MS0160) from the Fastener Kit using a Philips #2 screwdriver. Tighten securely.



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- 44.** 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 1/4" nut driver or socket. Remove and retain the bracket.

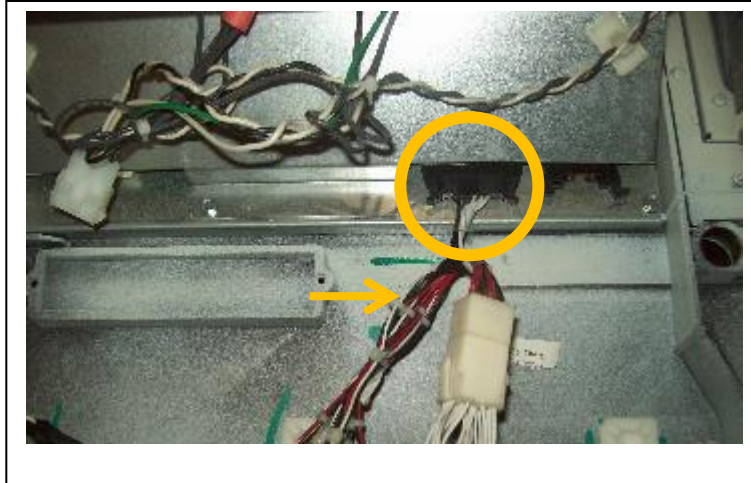


- 45.** To refit the Cable Tray Bracket onto the replacement door, attach with two M3X10 screws (MS0148) from the Fastener Kit using a Philips #1 screwdriver. Tighten securely

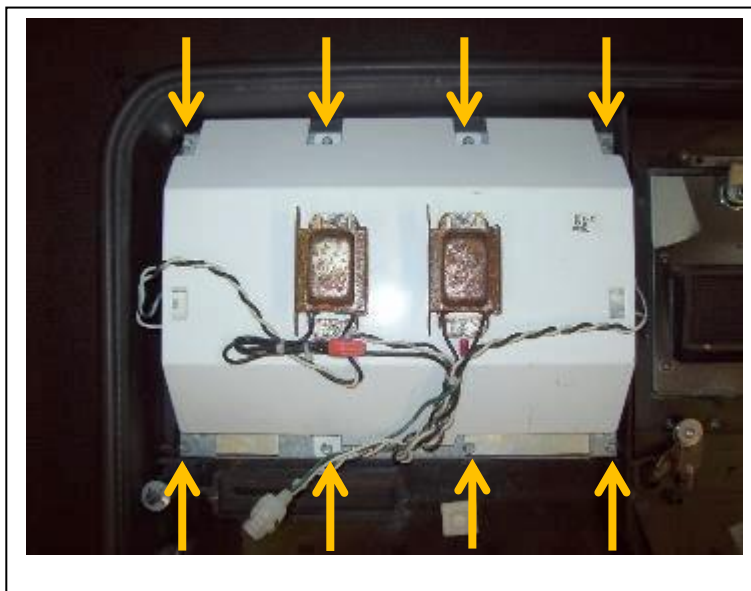


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- 46.** To swap over the PPU Display Assembly, on the original door disconnect and retain the cable harness from the Fuel Grade Selector Switches. This harness will be refitted later.



- 47.** On the original door remove and discard the eight screws securing the assembly using a 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.

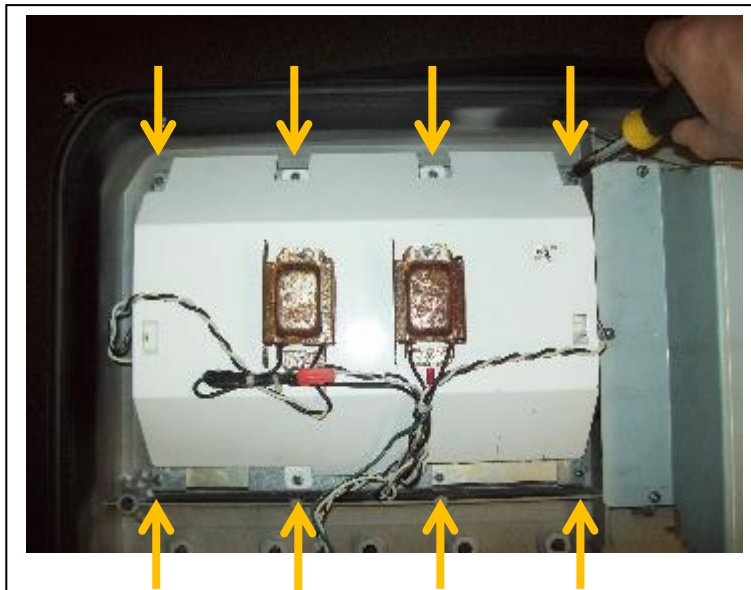


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- 48.** To refit the PPU into the replacement door, place the PPU Gasket (MP0864) from the Gasket Kit into the gasket groove around the outside of the window opening.



- 49.** 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.



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



Retrofit G6-300 + InvencoLink Wayne Vista 4V (US) Installation Guide**VISTA 3V SPECIFIC PROCEDURES:**

If the dispenser is a Vista 4V model (i.e. kit RF00001-XX or RF00056-XX), got to Step 78.

If the dispenser is a Vista 3V model (i.e. kits RF00002-XX, RF00003-XX, RF00083-XX or RF00084-XX), continue with the following procedures:

51. Determine the correct printer variant:



88543 Printer



RO2 Printer



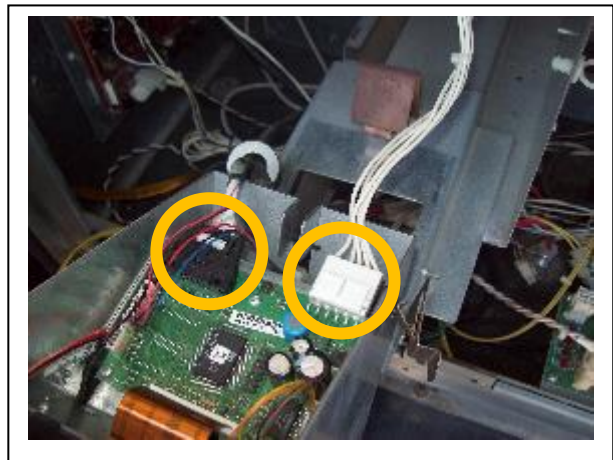
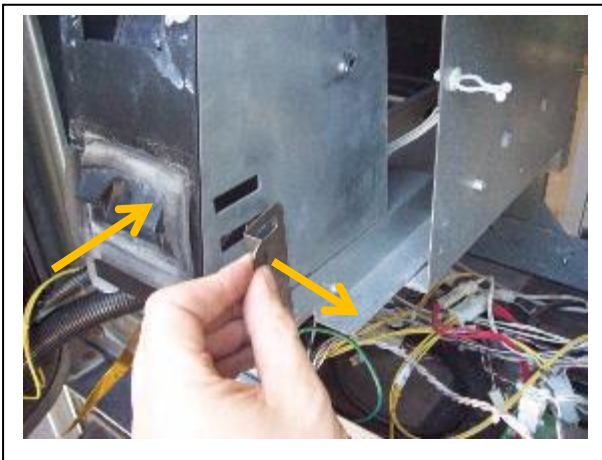
DW10 / DW15 Printer

Retrofit G6-300 + InvencoLink Wayne Vista 4V (US) Installation Guide

- 52.** 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).



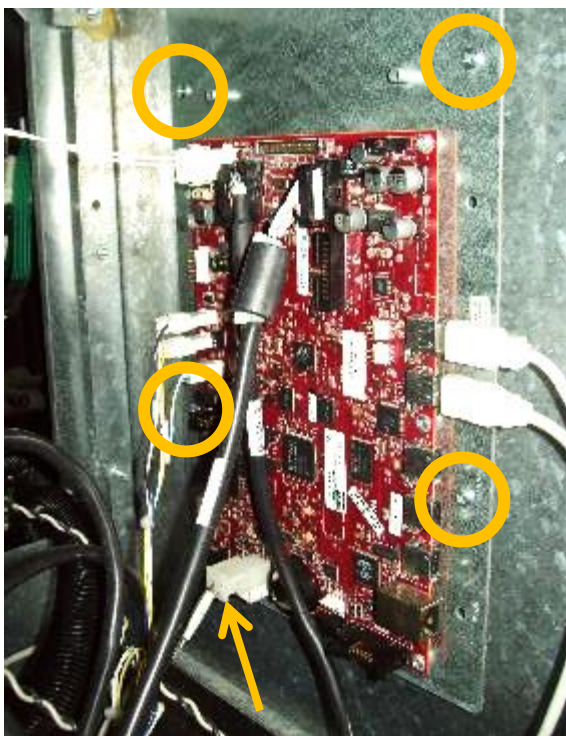
- 53.** For an RO2 or a DW10 / DW15 Printer, push the printer back against the spring to allow the Side Clip to be disengaged out of the Printer Body. Once unclipped, pull the Printer forwards and off the Mounting Bracket and tip forward to reveal the printer cables. Disconnect the Printer Cables and 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).



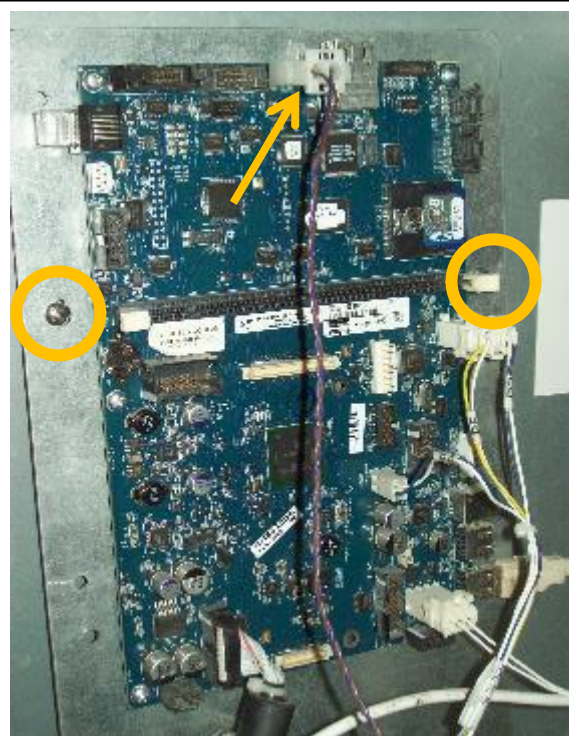
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54. To remove the Vista 3V Printer Bracket, the 4V Door Adapter Plates on BOTH sides of the dispenser need to be removed. This cannot happen until the doors on both sides of the dispenser have also been removed. This means Steps 4 through to 53 now 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.

55. REMOVING Q-CAT COMMUNICATIONS BOARD (if you are working on Side B, skip this step):
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 all remaining cables still connected to the board. Retain and label the data cable (may be purple/brown OR white/brown) as this will be reconnected to the InvencoLink (where this is fitted). Discard all other cables. Remove the screws holding the mounting plate in place. Discard the plate, board and screws.



3V Wide Frame example shown.
Screw locations circled.
White/brown data cable connection arrowed.



3V Narrow Frame example shown.
Screw locations circled.
Purple/brown data cable connection arrowed.

Retrofit G6-300 + InvencoLink Wayne Vista 4V (US) Installation Guide

- 56.** For a Vista 3V Wide Frame, unlatch the right-hand small door. Disconnect any Totalizer displays fitted and take note of which cable is connected to which Totalizer Display. Add labels to the cables if necessary. Disconnect the door stay cable out of the keyhole slot by moving it upwards and then out. Remove the Top Hinge Bracket with a 3/8" socket and retain the Bracket and the Nuts. Place the door safely off to one side for refitting later. Repeat this process on both sides of the dispenser.



If fitted, disconnect Totalizer Display cables. Note cable connection positions. Here three are shown.



Disconnect Cable Door Stay.

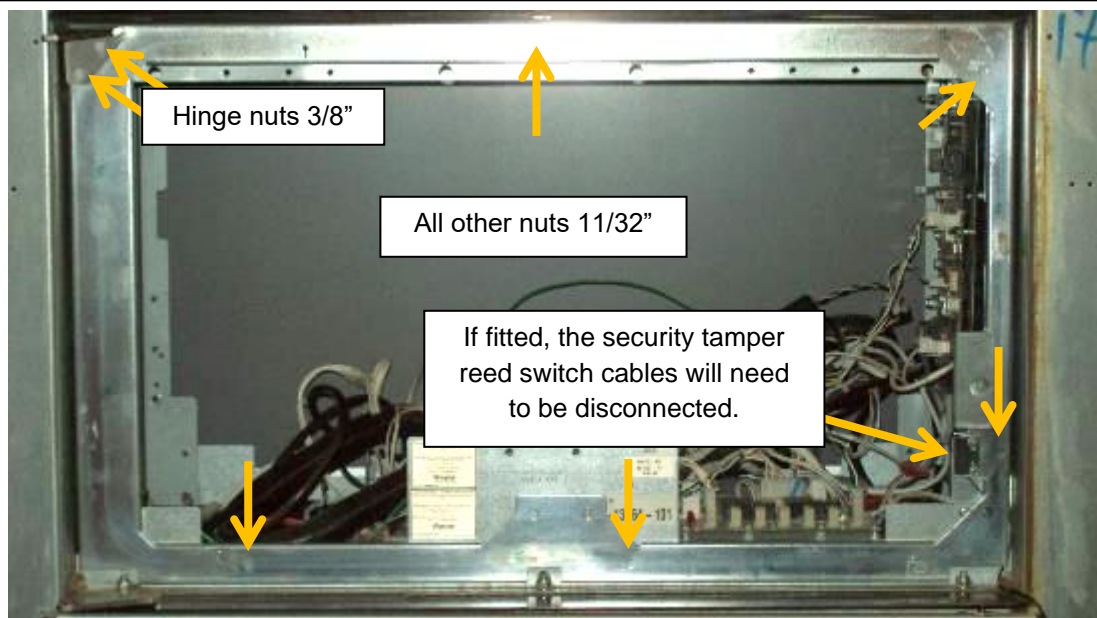
Retrofit G6-300 + InvencoLink Wayne Vista 4V (US) Installation Guide

- 57.** To remove the Adapter Plates, a series of nuts and screws need to be removed. The quantity and location vary between a Wide Body Vista 3V and a Narrow Body Vista 3V. After undoing all fasteners, retain the Adapter Plates, all hinge brackets, 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.

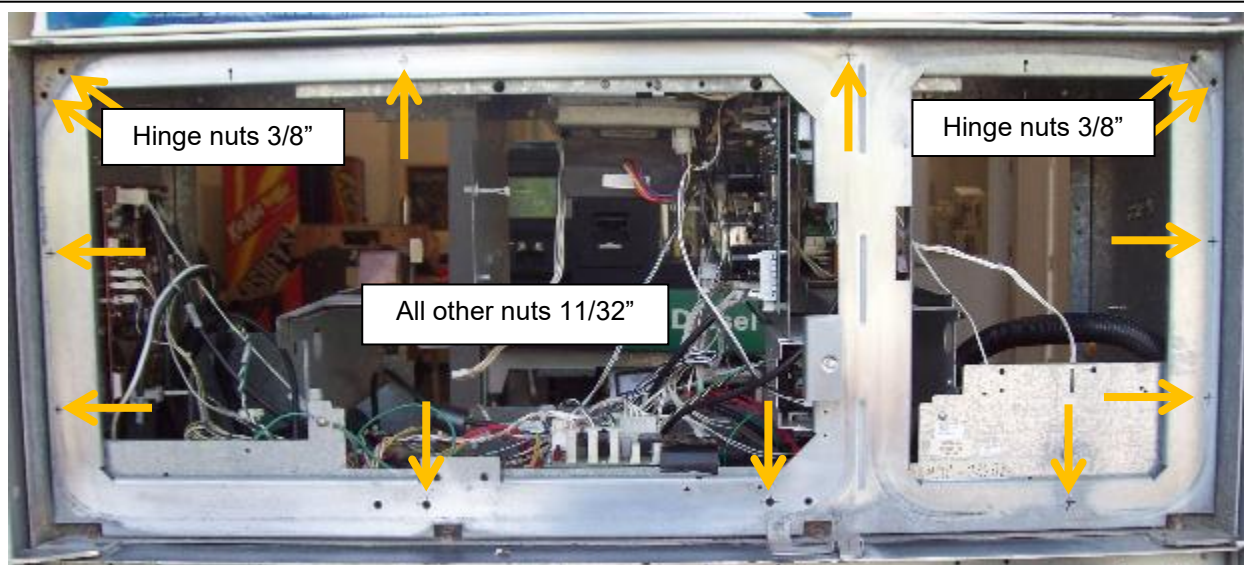
If fitted, the security tamper reed switch cables will need to be disconnected. This is located below the door screw bracket (see image below). Label this cable for reconnection later.

Repeat this process for both sides of the dispenser.



Locations of 4V Adapter Plate nuts on a Vista 3V Narrow Frame.

Retrofit G6-300 + InvencoLink Wayne Vista 4V (US) Installation Guide



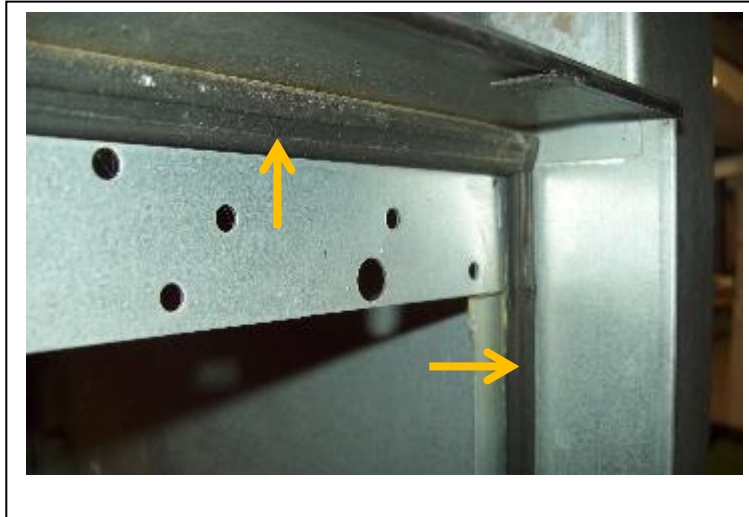
Locations of 4V Adapter Plate nuts and screws on a Vista 3V Wide Frame.



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

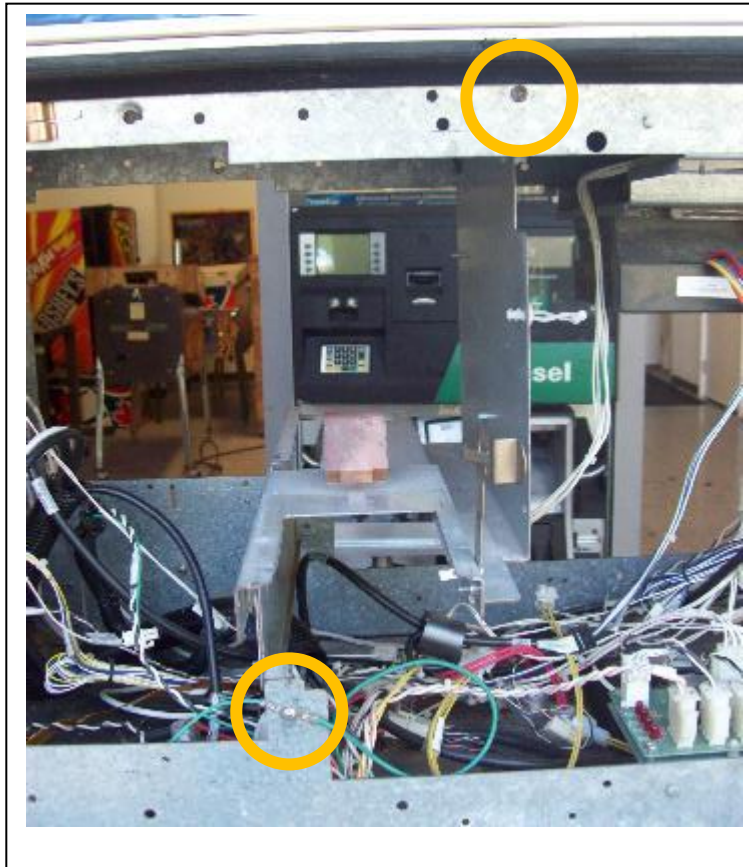
Retrofit G6-300 + InvencoLink Wayne Vista 4V (US) Installation Guide

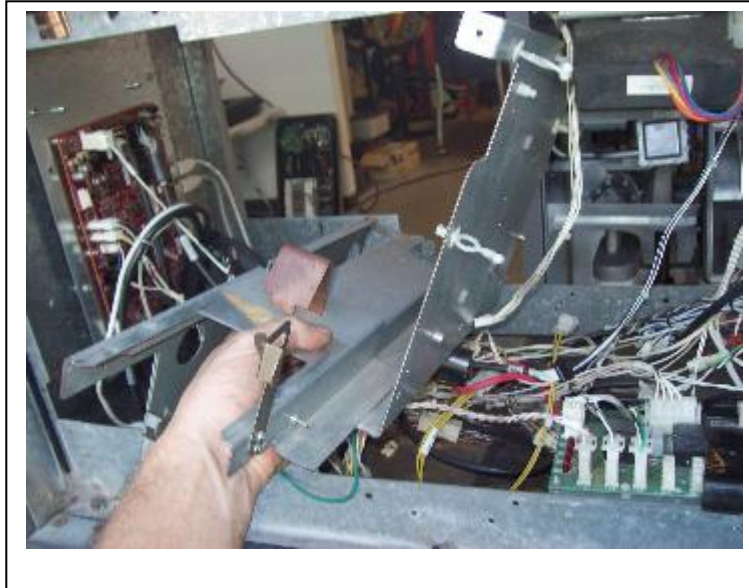
- 58.** Inspect the condition of the gasket located behind the Adapter Plate. If it is damaged stop the installation and contact Invenco or an Invenco Representative. Replace with a UL recognized gasket (ccn JMLU2) suitable for UL 50E continuous compression application for an enclosure Type 3R with similar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



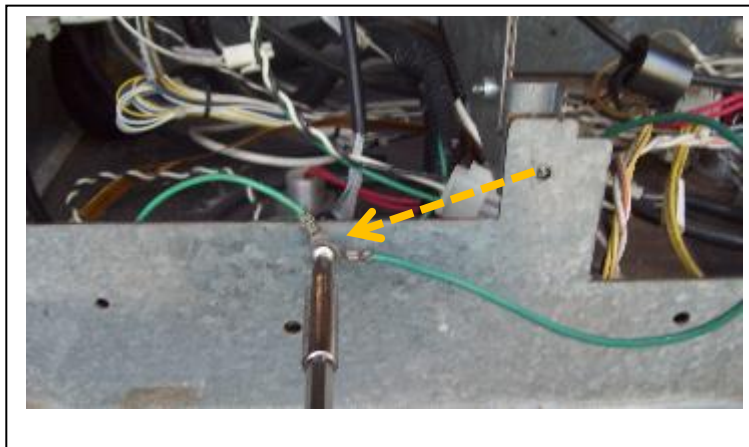
Retrofit G6-300 + InvencoLink Wayne Vista 4V (US) Installation Guide

- 59.** 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 this bracket and its associated screws. Discard the other unused Printer Bracket. This step may be skipped if you are installing Side B.



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- 60.** 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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- 61.** The electronic components on the original Printer Bracket are now to be transferred to a new Electronics Bracket assembly. If the dispenser is a Vista 3V Narrow Frame (i.e. kit RF00002-XX or RF00083-XX), mount these components onto Assembly EZ0611. If the dispenser is a Vista 3V Wide Frame (i.e. kit RF00003-XX or RF00084-XX), mount onto Assembly EZ0633.

If you are installing Side B, you may skip to **SECTION 6 Installation Procedure**.



EZ0611 Narrow Frame Electronics Bracket

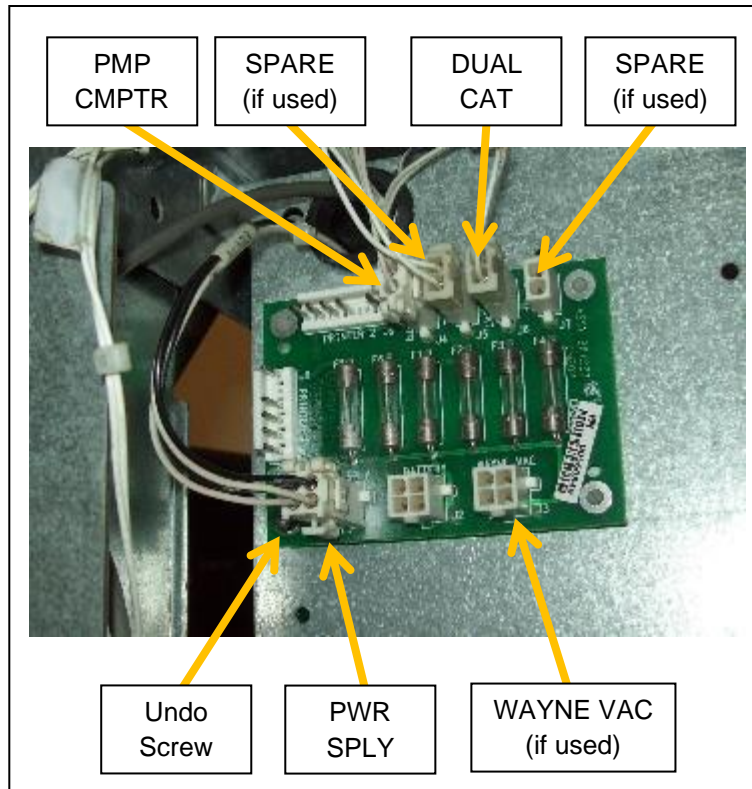


EZ0633 Wide Frame Electronics Bracket

Retrofit G6-300 + InvencoLink Wayne Vista 4V (US) Installation Guide

62. TRANSFER OF FUSE BOARD, SOUNDER 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.

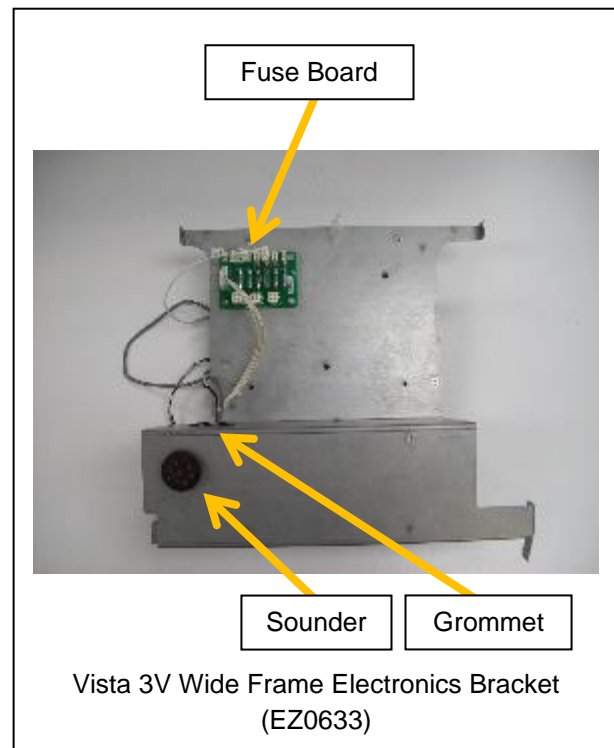
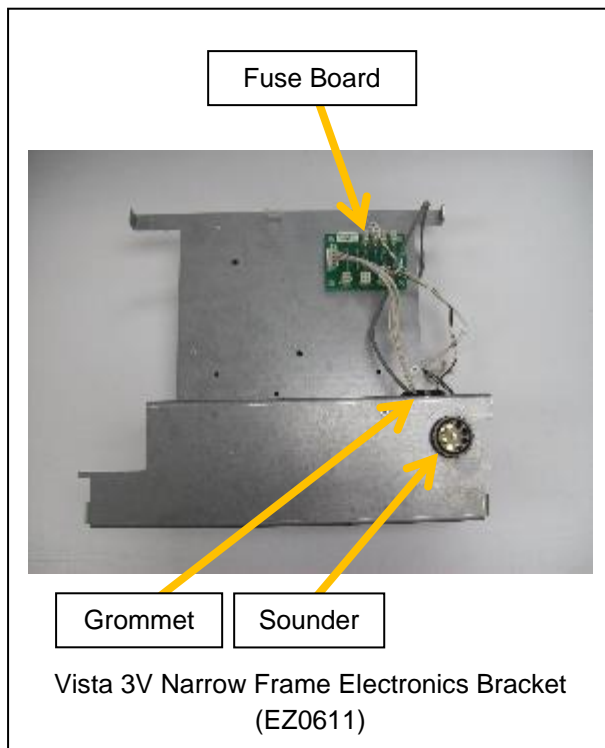


Undo and retain the screw on the bottom left corner of the board and remove the board from the original panel. Any plastic mounting stand-offs that stay on the removed board can be discarded. Re-attach the Fuse Board to the replacement Electronics Bracket using the retained screw, and snap-fit the board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

Unscrew the Sounder bezel ring off the original panel and transfer the Sounder 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.

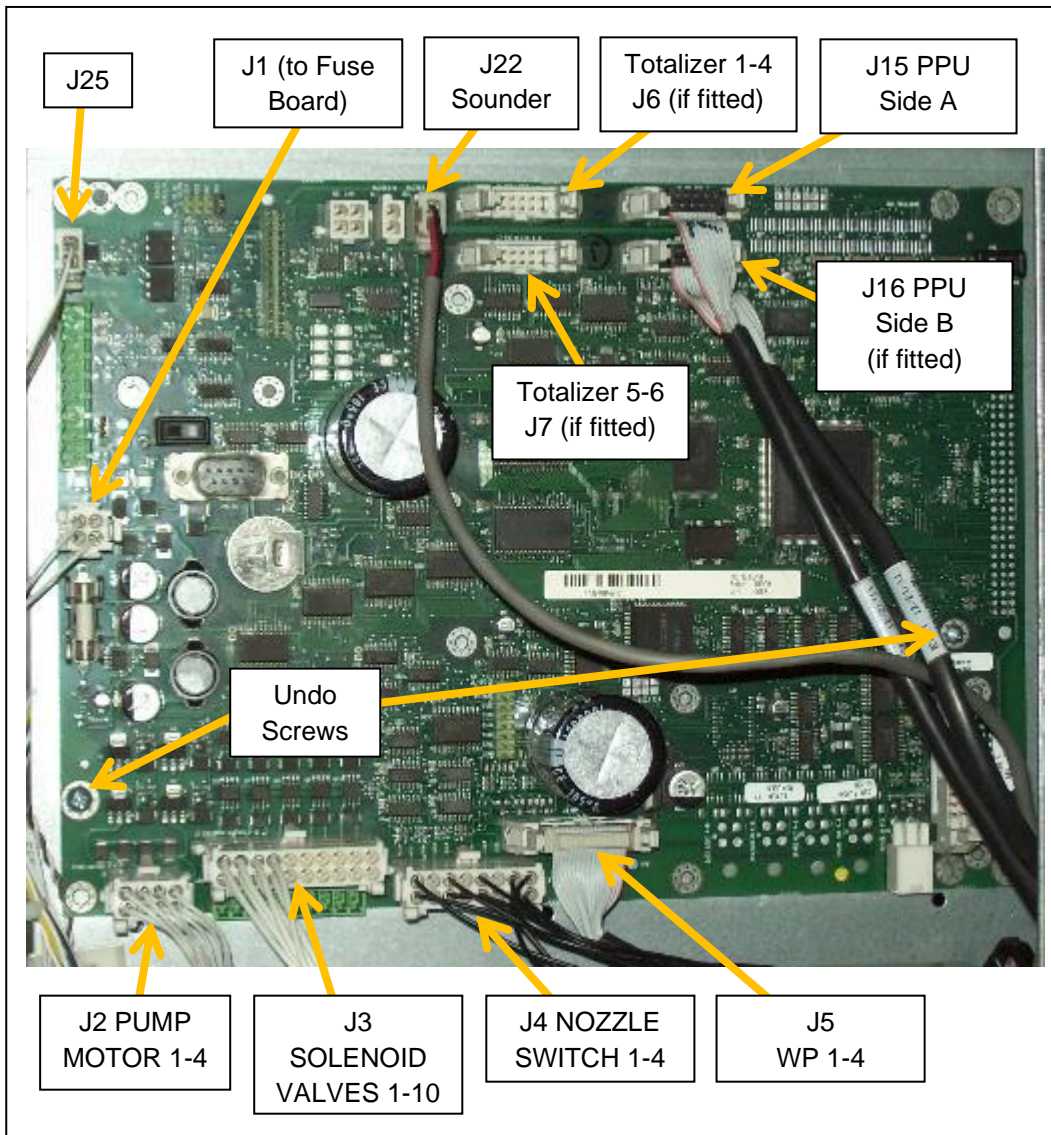
Please refer to the following images for orientation and position of the modules.

Retrofit G6-300 + InvencoLink Wayne Vista 4V (US) Installation Guide

Retrofit G6-300 + InvencoLink Wayne Vista 4V (US) Installation Guide

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

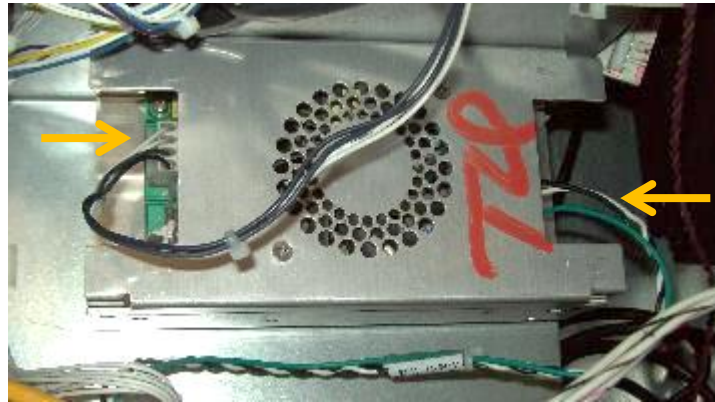
On the Dual-CAT CPU Board, disconnect all remaining cables and note their connection positions for refitting later. Label cables as required.



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.

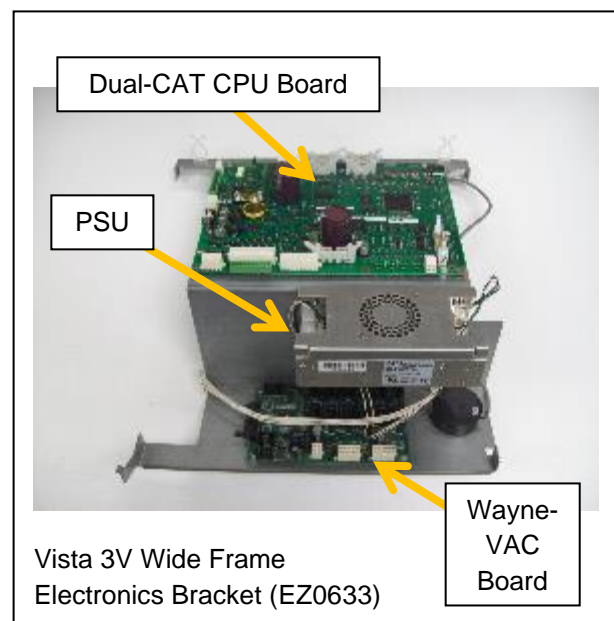
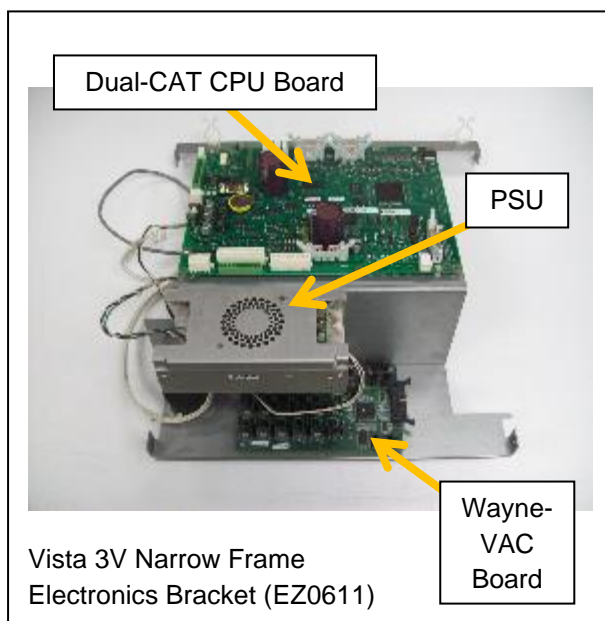
Retrofit G6-300 + InvencoLink Wayne Vista 4V (US) Installation Guide



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

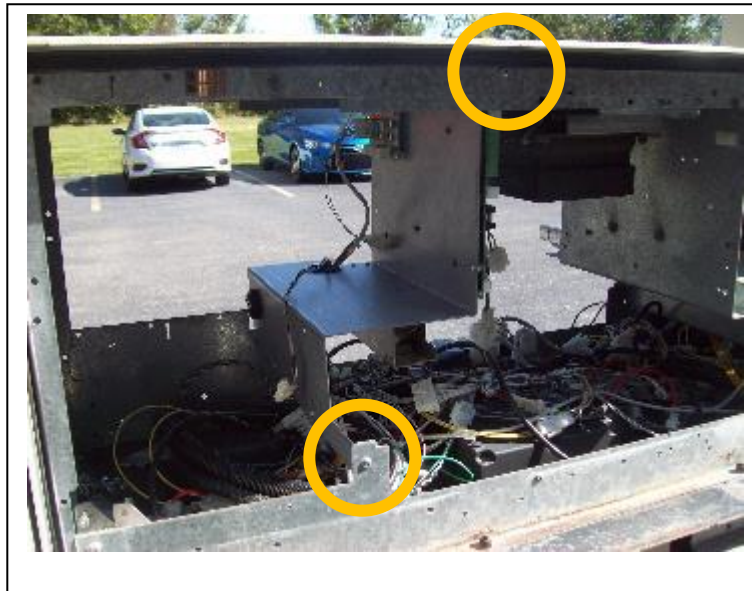
If a Wayne-Vac board (Max-Vac board) is fitted, disconnect all cables and note their connection positions for refitting later. Label cables as required. Undo and retain the screw mounting the board onto the original panel. Any plastic mounting stand-offs that stay on the removed board can be discarded. 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.



Retrofit G6-300 + InvencoLink Wayne Vista 4V (US) Installation Guide

- 64.** 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.
- 65. 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.



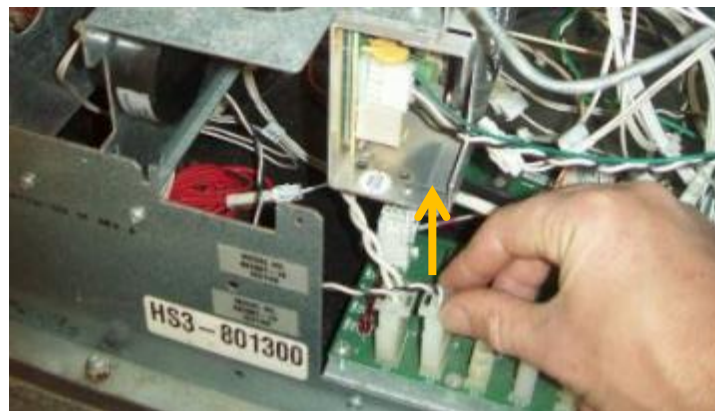
Retrofit G6-300 + InvencoLink Wayne Vista 4V (US) Installation Guide**66. HEATER RELOCATION:**

FOR VISTA 3V NARROW FRAME CONVERTED TO FIT A VISTA 4V DOOR (i.e. kit RF00002-XX or RF00083-XX)

Note: This step only applies if a heater is installed in the narrow dispenser, located at the lower side part of the compartment. Otherwise skip to Step **75**.



Heater mounted at lower side. Needs to be relocated to fit Power Supply Brackets.

67. Disconnect the Heater from the power distribution board.

Retrofit G6-300 + InvencoLink Wayne Vista 4V (US) Installation Guide

68. Determine if the Large Heater or Small Heater is installed. If a Large Heater is installed go to Step 69. If a Small Heater is installed go to Step 72.



Large Heater



Small Heater

69. LARGE HEATER RELOCATION

Remove the four mounting screws (two each side) and retain two of them to relocate the Heater. Discard the other two.



Remove Screws, Side A



Remove Screws, Side B

Retrofit G6-300 + InvencoLink Wayne Vista 4V (US) Installation Guide

70. Relocate the Heater to the top center of the dispenser. Attach the two screws where shown:

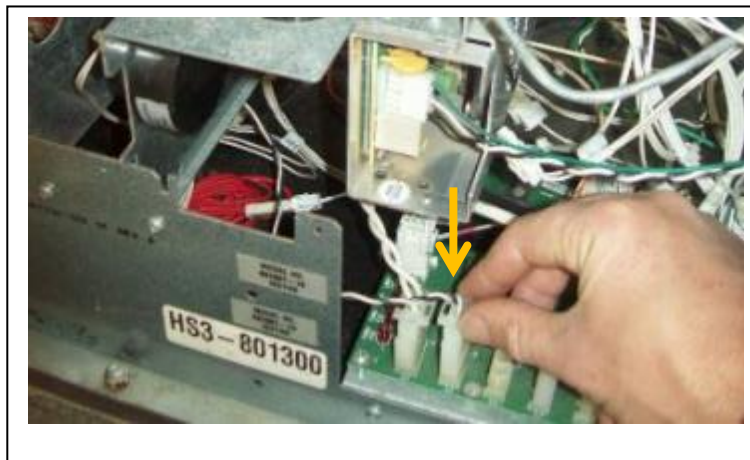


Screw Location, Side A



Screw Location, Side B

71. After reconnecting the power cable, go to Step 75.



Retrofit G6-300 + InvencoLink Wayne Vista 4V (US) Installation Guide**72. SMALL HEATER RELOCATION**

Remove the four mounting screws (two each side) and retain two of them to relocate the Heater. Discard the other two.



Remove Screws, Side A



Remove Screws, Side B

73. Rotate the Heater 180° around (Side A becomes Side B) and relocate the Heater at the top center of the dispenser. Attach the two screws where shown.



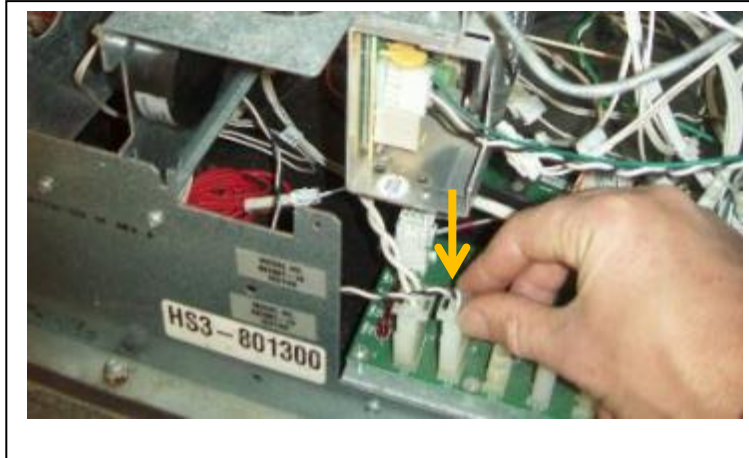
Screw Location, Side A



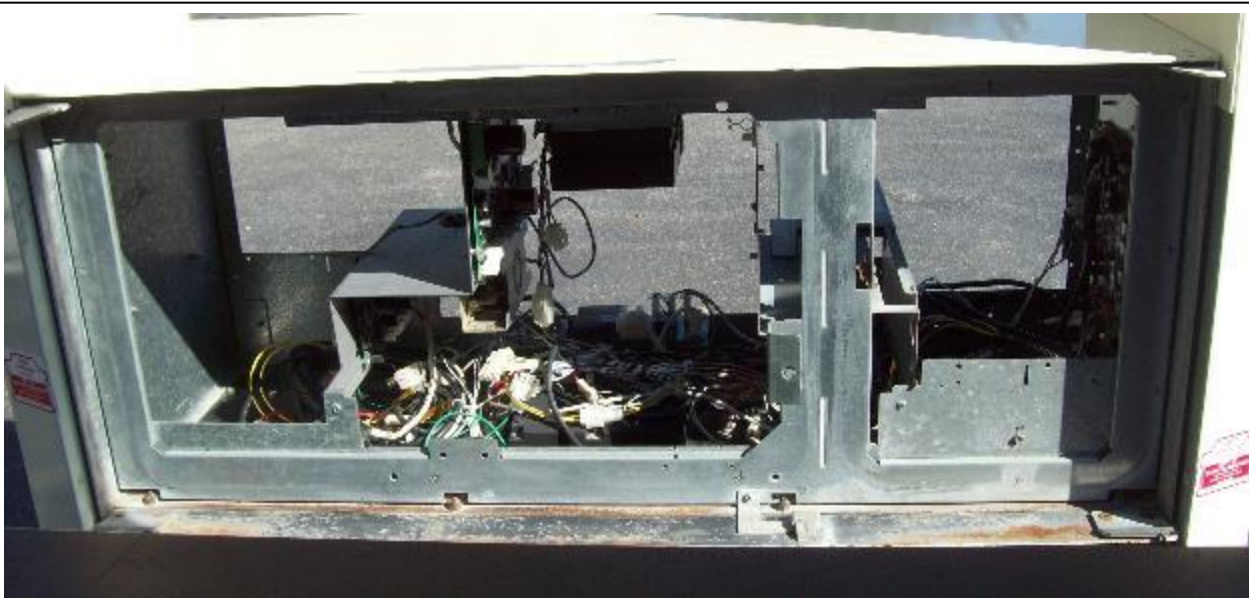
Screw Location, Side B

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74. Reconnect the power cable.



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 Brackets using the same nuts and screws removed earlier. Leave the Hinge Bracket nuts loose to allow re-attachment of the doors. 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.



Retrofit G6-300 + InvencoLink Wayne Vista 4V (US) Installation Guide

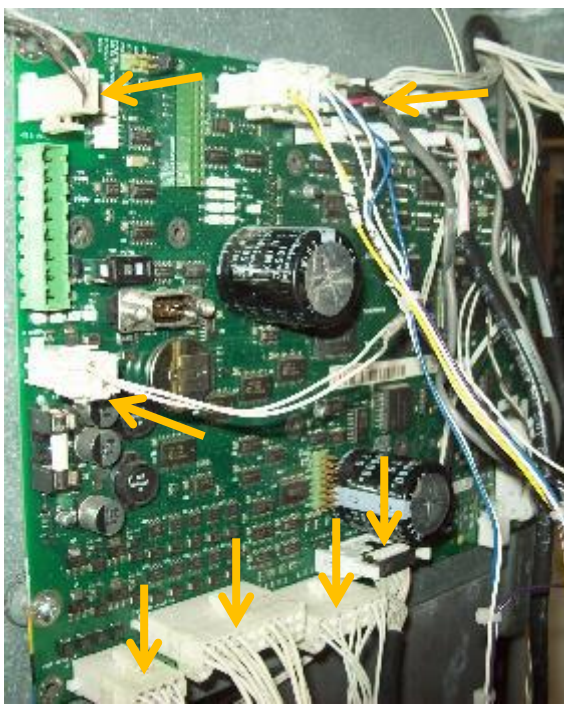
- 76.** If fitted, reconnect the cable to the Security Reed Switch. Repeat this step for both sides of the dispenser.



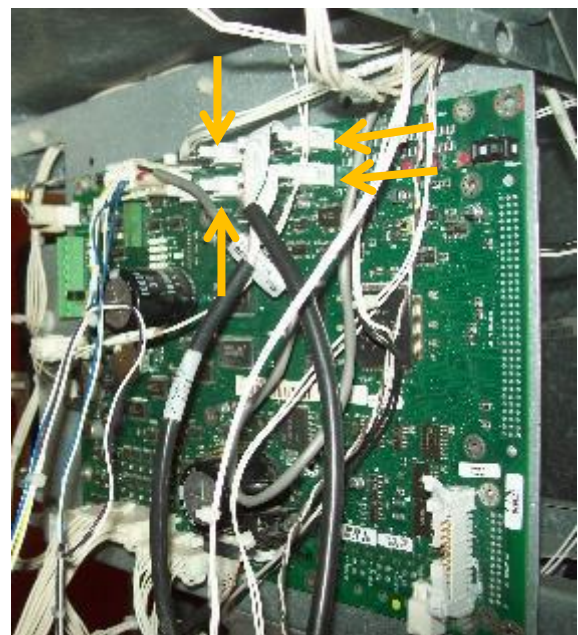
If fitted, reconnect cable to Security Reed Switch.

Retrofit G6-300 + InvencoLink Wayne Vista 4V (US) Installation Guide

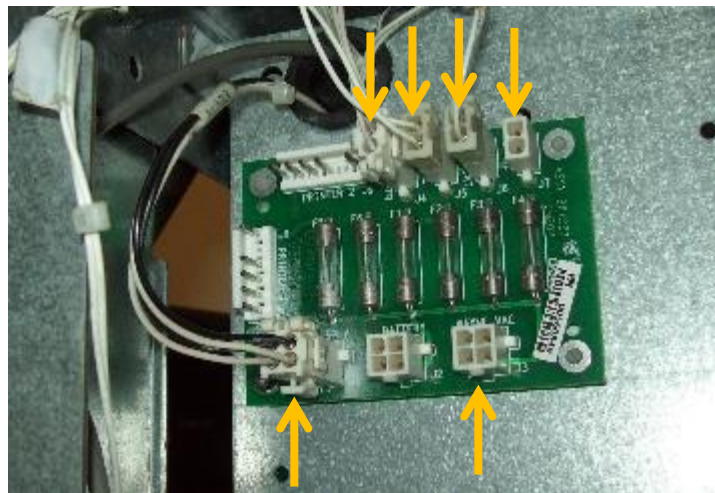
- 77.** Reconnect all remaining cables disconnected off the original Printer Bracket back onto the same electronic boards now fitted on the replacement Electronics Bracket. Once all reconnections are completed, skip to SECTION 5.



Cable Reconnections



Cable Reconnections



Cable Reconnections

Retrofit G6-300 + InvencoLink Wayne Vista 4V (US) Installation Guide**VISTA 4V SPECIFIC PROCEDURES:**

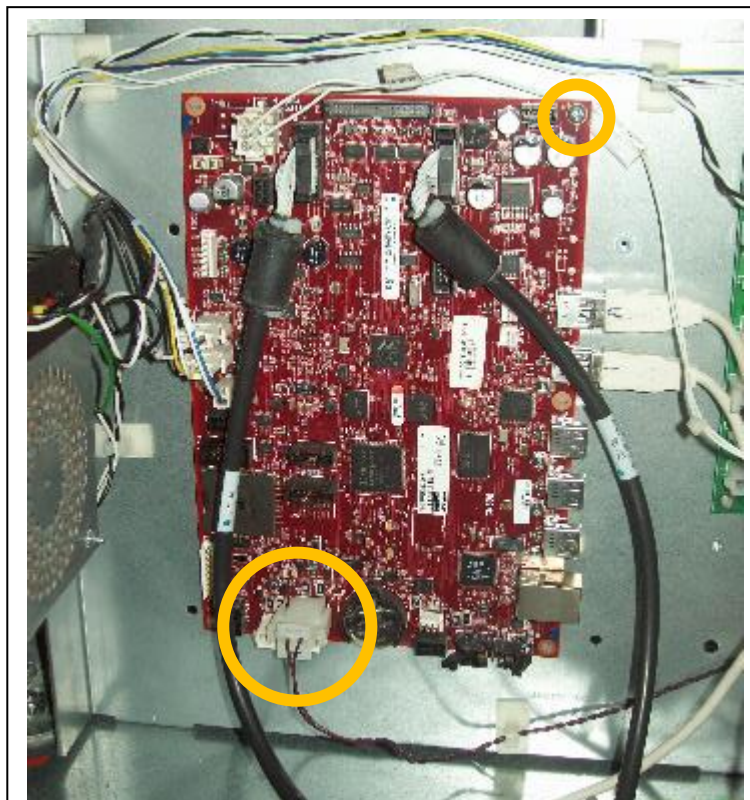
If the dispenser is a Vista 3V model (i.e. kit RF00002-XX, RF00003-XX, RF00083-XX or RF00084-XX), go to **Section 5 Pre-Installation Procedure**.

If the dispenser is a Vista 4V model (i.e. kit RF00001-XX or RF00056-XX), continue with the following step:

78. REMOVING Q-CAT COMMUNICATIONS BOARD:

If you are installing Side B, skip to **SECTION 6 Installation Procedure**.

In a Vista 4V dispenser, the red or blue Q-Cat Communications Board is fitted on the internal panel inside the dispenser. This needs to be discarded. Disconnect all remaining cables still connected to the board. Retain and label the data cable (may be purple/brown OR white/brown) as this will be reconnected to the InvencoLink (where this is fitted). Discard all other cables. Remove the screw holding the board in place and detach the board from the plastic snap-fit stand-offs. Discard the board and screw. Any stand-offs retained on the board can also be discarded.



Vista 4V Wide example shown.

Retrofit G6-300 + InvencoLink Wayne Vista 4V (US) Installation Guide

5 Pre-Installation Procedure

This Retro-Fit Kit does not include a communications method for the OPT. When this Retro-Fit Kit is being installed, a communications method **MUST** first be installed as follows:

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

(Kit part number: RF00001-XX or RF00056-XX)

On Side A (i.e. the first side) of the dispenser.

For Side B (i.e. the second side), you **MUST** have Side A (i.e. the first side) already installed, and you may then proceed to §6 Installation Procedure.

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

(Kit part number: RF00002-XX or RF00083-XX)

On Side A (i.e. the first side) of the dispenser.

For Side B (i.e. the second side), you **MUST** have Side A (i.e. the first side) already installed, and you may then proceed to §6 Installation Procedure.

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

(Kit part number: RF00003-XX or RF00084-XX)

On Side A (i.e. the first side) of the dispenser.

For Side B (i.e. the second side), you **MUST** have Side A (i.e. the first side) already installed, and you may then proceed to §6 Installation Procedure.

The approved communications methods are listed below.

UL Report Number	Kit Part Number	Retro-Fit Kit Description
MH61528	RF00033-XX	InvencoLink DSP232

Select the PSU Plate Assembly from this Retro-Fit Kit package and apply the communications method selected from the table above, following the installation instructions supplied with that Kit (DCV-00465).

Once the communications method has been installed onto the PSU Plate Assembly, proceed to §6 Installation Procedure.

Retrofit G6-300 + InvencoLink Wayne Vista 4V (US) Installation Guide

6 Installation Procedure

This section follows from the Disassembly procedure above, and assumes the pump is still open. 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 **50** now, otherwise continue with the procedure below.

POWER SUPPLY INSTALLATION PROCEDURES:

For Vista 3V dispensers (i.e. kits RF00002-XX, RF00003-XX, RF00083-XX or RF00084-XX), go to Step **79**.

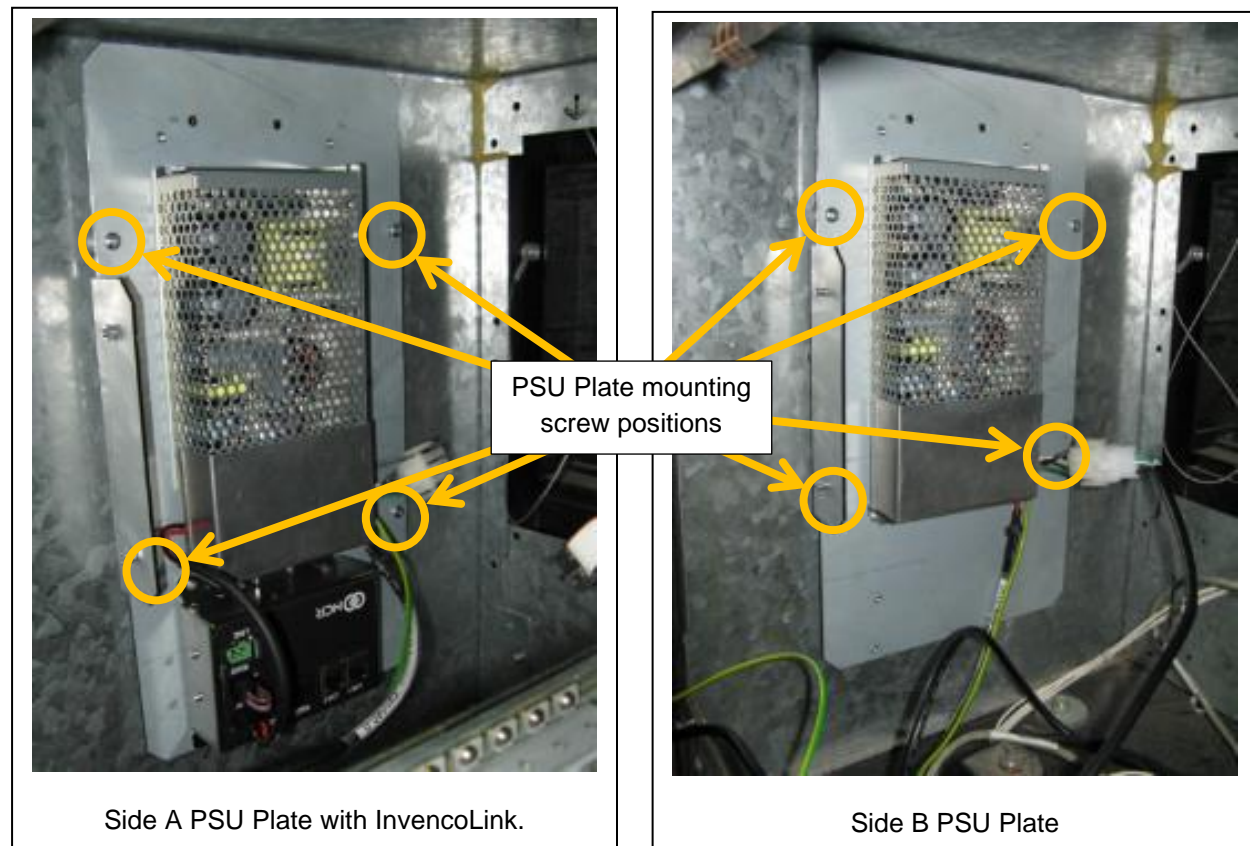
For Vista 4V dispensers (i.e. kit RF00001-XX or RF00056-XX), go to Step **80**.

79. VISTA 3V POWER SUPPLY INSTALLATION:

Install the pre-assembled EZ0631 PSU Plate Assembly into the pump, in the cavity behind where the left-hand Display and Printer modules were. For Side A this is the PSU Plate Assembly that has just had the InvencoLink converter installed.

Place the plate up against the stand-offs on the left side of the dispenser. Secure the plate using four MS0262 #8-32 3/8” screws using a Philips screwdriver. Repeat this step for Side B.

To continue a Vista 3V installation, skip to Step **86**.



Retrofit G6-300 + InvencoLink Wayne Vista 4V (US) Installation Guide**80. VISTA 4V POWER SUPPLY INSTALLATION**

At this stage, re-orient the heater and fit the heater cover by installing UL Listed by Report Retrofit Kit Part Number RF00069-XX (Heater cover, Wayne Vista 4V). Follow the installation instructions as specified in the installation guide for this kit: DCV-00548.

For best access it is easiest to mount the PSU plate assemblies into a Vista 4V dispenser before the door is re-fitted. Obtain the correct assembled plate:

Side A: EZ0654 with InvencoLink. Side B: EZ0654



Side A: PSU Assembly (EZ0654) with cables and InvencoLink



Side B: PSU Assembly (EZ0654) with cables

- 81.** Using a 1/4" nut driver or socket, undo two nuts securing the lid on the left hand side of the dispenser, relative to the side being installed. Retain the nuts. To improve access, unlatch the small right side door and the opposite side main door (if the main door is still fitted) as needed.



Undo and retain two nuts.

Retrofit G6-300 + InvencoLink Wayne Vista 4V (US) Installation Guide

- 82.** The Electronics Mounting Panel inside the dispenser needs to be temporarily moved out of the way to fit the PSU assembly. Use a 11/32" socket to undo the mounting nuts on the feet of the Electronics Mounting Panel. Retain these nuts. If you are working on a Narrow dispenser there will be 4 nuts to undo. If you are working on a Wide dispenser there will be 6 nuts to undo.



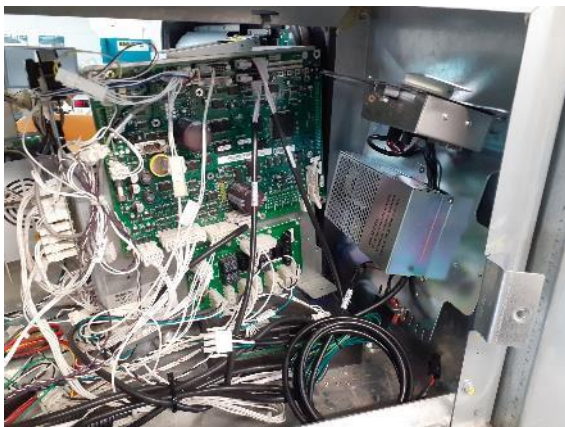
Undo Electronics Panel feet mounting nuts.
Vista 4V Wide shown.



Carefully move panel diagonally.
Side A Vista 4V Narrow shown.

Carefully lift the Electronics Mounting Panel off the studs and rotate it onto a diagonal angle away from the side where the PSU assembly is to be mounted. Take care when placing the panel back down not to snag cables.

- 83.** Place the PSU assembly inside the dispenser, then lift the assembly up and align it onto the lid mounting studs on the ceiling. Use a 1/4" socket or nut driver to reattach the nuts removed in Step 81 to secure the assembly in place.



Place PSU Assembly inside dispenser.
Side A Vista 4V Narrow shown.

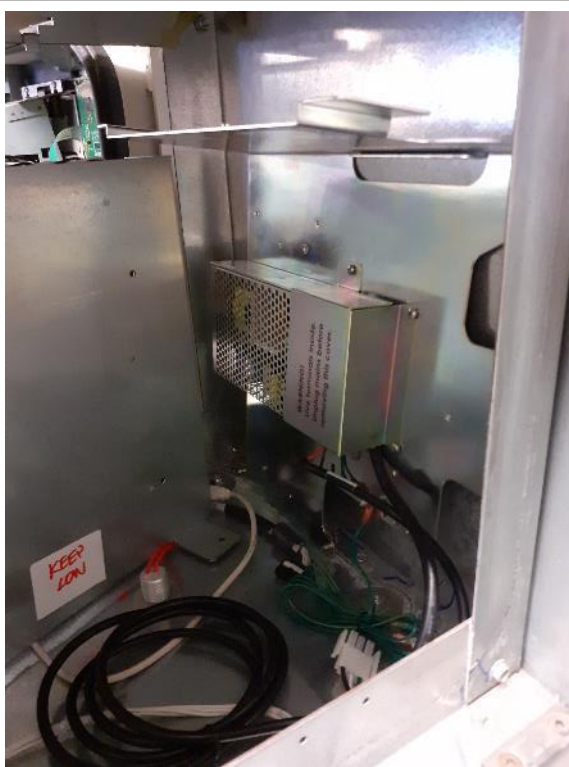


Attach using the two lid mounting nuts.
Side A Vista 4V Narrow shown.

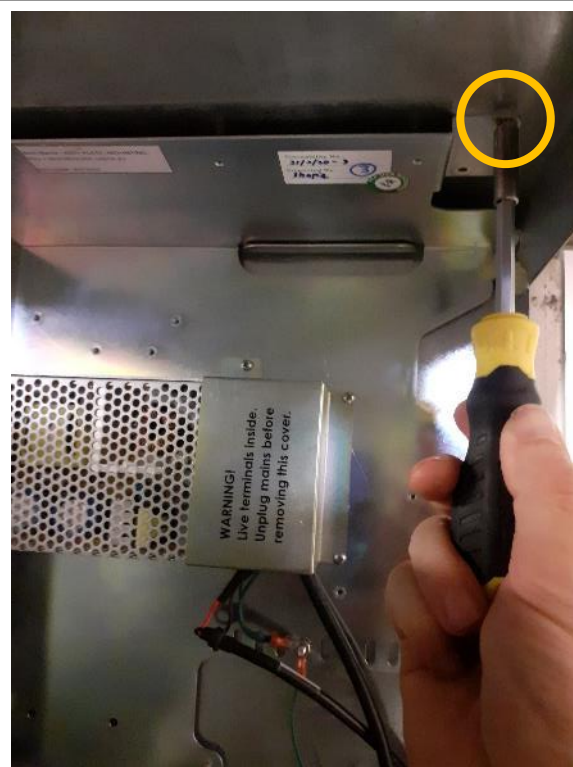
Retrofit G6-300 + InvencoLink Wayne Vista 4V (US) Installation Guide

If this is a single-sided dispenser, proceed to Step **85**. If this is a double-sided dispenser, continue to Step **84**.

- 84.** To minimize the number of times the Electronics Mounting Panel needs to be moved, if this is a double sided dispenser mount the second PSU assembly now. Repeat Steps **80**, **81** and **83** for Side B, then continue to Step **85**.



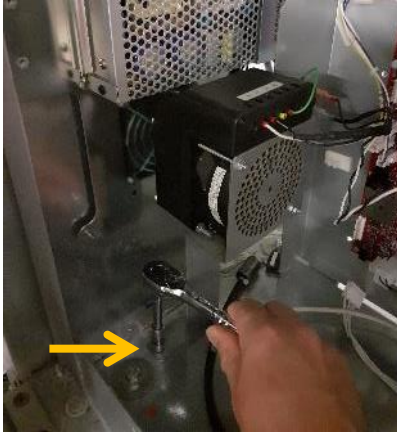
Place PSU Assembly inside dispenser.
Side B Vista 4V Wide shown.



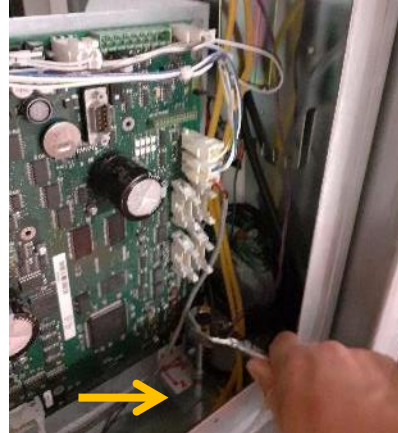
Attach using two lid mounting nuts.
Side B Vista 4V Wide shown.

Retrofit G6-300 + InvencoLink Wayne Vista 4V (US) Installation Guide

- 85.** Carefully lift the internal Electronics Mounting Panel back into place on top of the mounting studs, and reattach the nuts removed in Step **82** using an 11/32" socket. Take care to ensure that no cables are caught under the panel or the mounting feet before tightening the nuts.



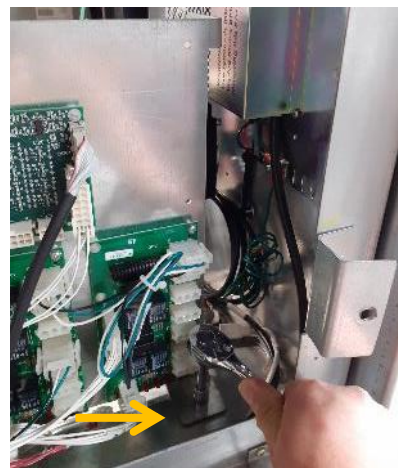
Tighten Mounting Nuts.
Vista 4V Wide shown.



Tighten Mounting Nuts.
Vista 4V Wide shown.



Tighten Mounting Nuts.
Vista 4V Narrow shown.



Tighten Mounting Nuts.
Vista 4V Narrow shown.

Retrofit G6-300 + InvencoLink Wayne Vista 4V (US) Installation Guide**86.** Plug the patch cables into the InvencoLink converter sockets:

For Side A the converter will be on the PSU plate you have just installed.

- Plug the EK0131 YELLOW cable into the LAN-1 socket.

If the dispenser is two sided, from Side B the converter will be on the PSU plate on the other side of the dispenser and you should run the cables under any central electronics.

- Plug the EK0131 YELLOW cable into the LAN-2 socket.



Side A Patch Cable Installation.



Side B Patch Cable Installation

87. REFIT SMALL RIGHT DOOR – VISTA 3V WIDE FRAME DISPENSERS ONLY

If the dispenser is a Vista 4V, skip to Step **89**.

If the dispenser is a Vista 3V Wide Frame, refit the small right-side door by placing the bottom hinge pin in the bottom hinge bracket and lifting the loosened top hinge bracket over top of the top hinge pin. Re-tighten the top hinge bracket nuts using a 3/8" socket.

If Totalizers are fitted, this door goes onto Side A of the dispenser.

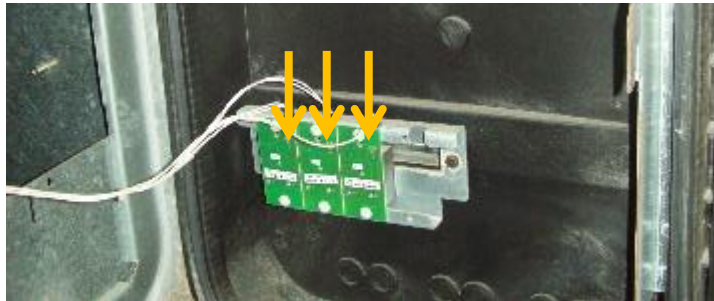
Repeat this Step **87** and **88** on both sides of the dispenser.

Retrofit G6-300 + InvencoLink Wayne Vista 4V (US) Installation Guide

- 88.** Reconnect the Door Stay Cable. If fitted, reconnect the Totalizer cables and ensure the correct cables are reconnected to the correct Totalizer Display. Skip to Step **90** to continue.



Reconnect the Door Stay Cable.



If fitted, reconnect any Totalizer Display cables.

89. VISTA 4V WIDE FRAME – SILICONE SEALANT

If the dispenser is a Vista 4V Wide Frame, unlatch and open the small right side door (if not open already). 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.



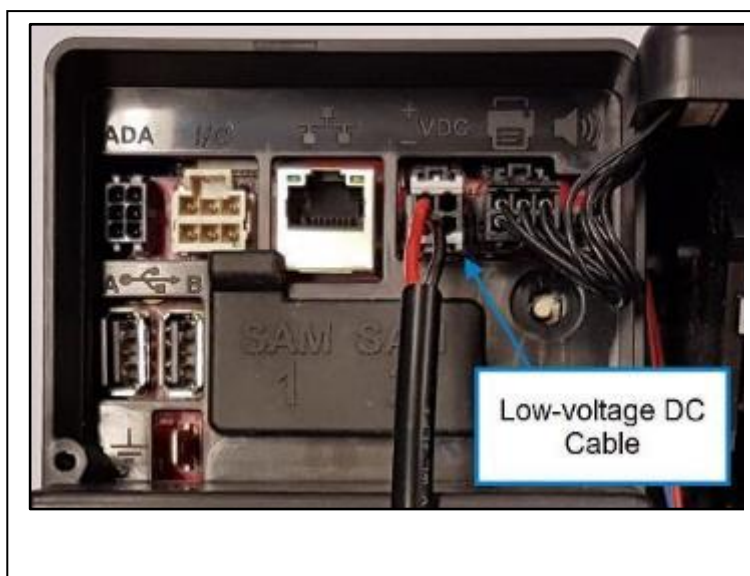
Retrofit G6-300 + InvencoLink Wayne Vista 4V (US) Installation Guide**90. ATTACH RETROFIT KIT DOORS:**

Repeat Steps **90** through to **106** on both sides of the dispenser.

Locate the Retrofit Kit Door with all the electronic components fitted. If Totalizers are fitted to the door (found on Narrow Frame dispenser installs only) this door goes onto Side A of the dispenser. Place the bottom hinge pin into the bottom hinge bracket. Lift the loosened top hinge bracket over top of the top hinge pin. 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.

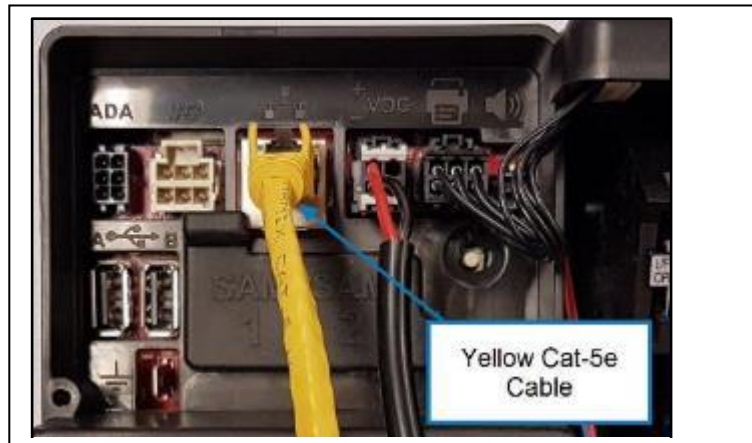
**91. CABLE CONNECTIONS ON BACK OF OPT:**

Open the G6-300 hatch door if it is not already unlocked and pull all the OPT cables through from the bottom of the door around the sheet metal shield (patch cable EK0131 YELLOW, plus the low voltage DC power cable with the black connector and the grounding cables from the appropriate power supply unit). Plug the low voltage DC power cable into the OPT.

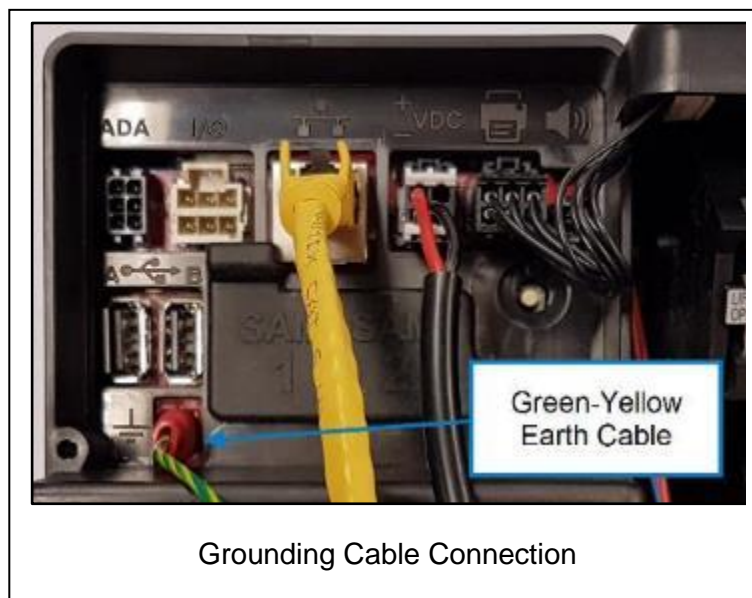


Retrofit G6-300 + InvencoLink Wayne Vista 4V (US) Installation Guide

- 92.** Connect the EK0131 YELLOW patch cables into the correct sockets on the OPT. The port numbers on the InvencoLink for each cable must match the side you are working on (eg; LAN-1 for Side A).



- 93.** Connect the Green/Yellow grounding cable from the Power Supply assembly to the tab on the OPT.

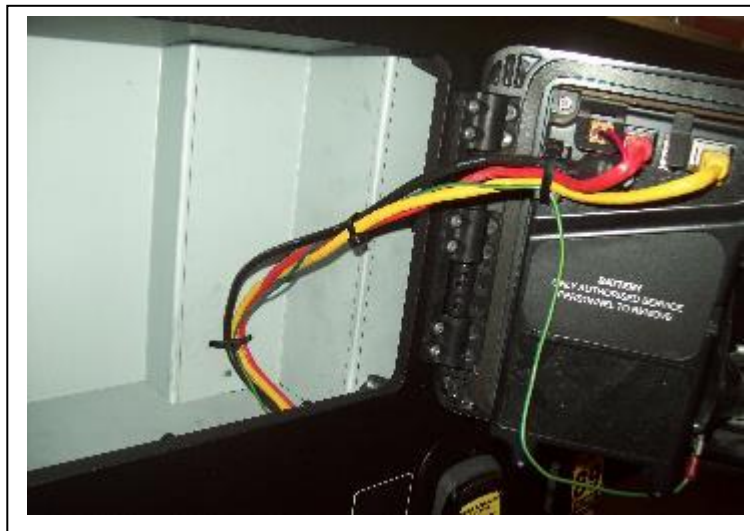


Retrofit G6-300 + InvencoLink Wayne Vista 4V (US) Installation Guide

94. Bundle the connected cables with a cable tie as shown.



95. Open the G6-300 Hatch door as far as it will open. Bundle the cables back to the cable tie point on the sheet metal shield and cable tie in place. Add additional cable ties as necessary to keep the bundle together. Open and close the door a few times and check that the cables can move freely and do not get pinched when the door is closed. Lock the G6-300 Hatch.

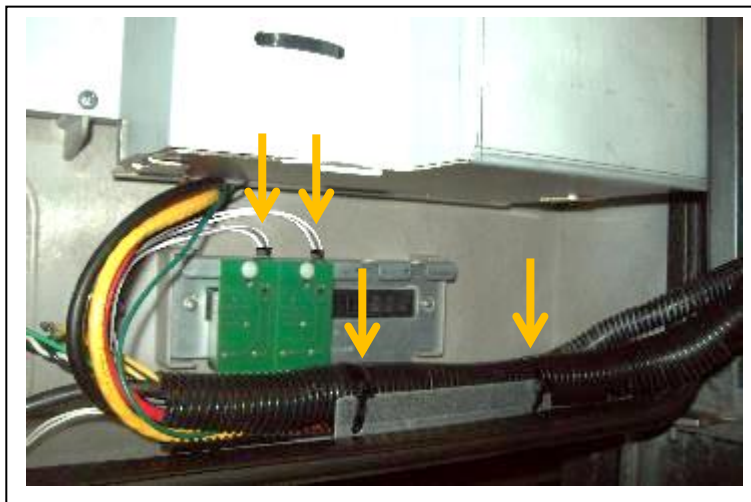


Retrofit G6-300 + InvencoLink Wayne Vista 4V (US) Installation Guide

96. Open the main 4V door. Cable tie the cable bundle tidily under the sheet metal shield.

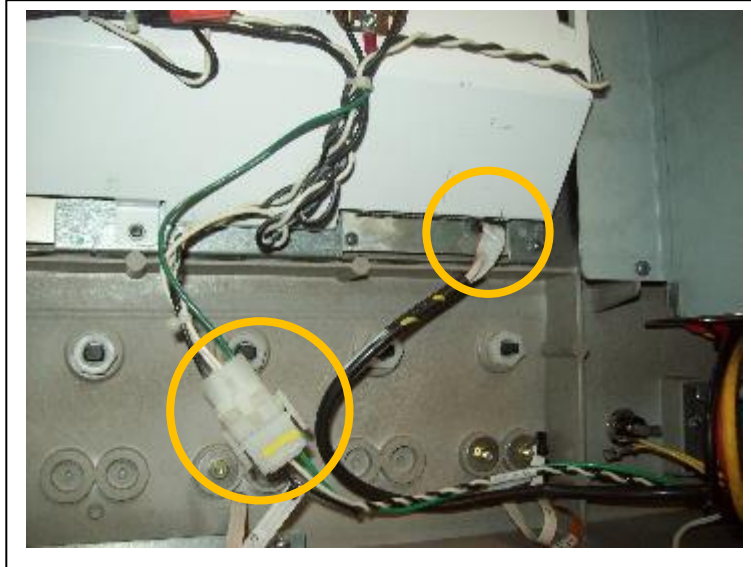


97. Re-install the cable trunking from the main dispenser cabinet. Feed the OPT cables through the trunking. If they are fitted, reconnect the Totalizers. Attach the cable trunking to the cable tray with two cable ties. Ensure the correct Totalizer cable is connected to the correct display.

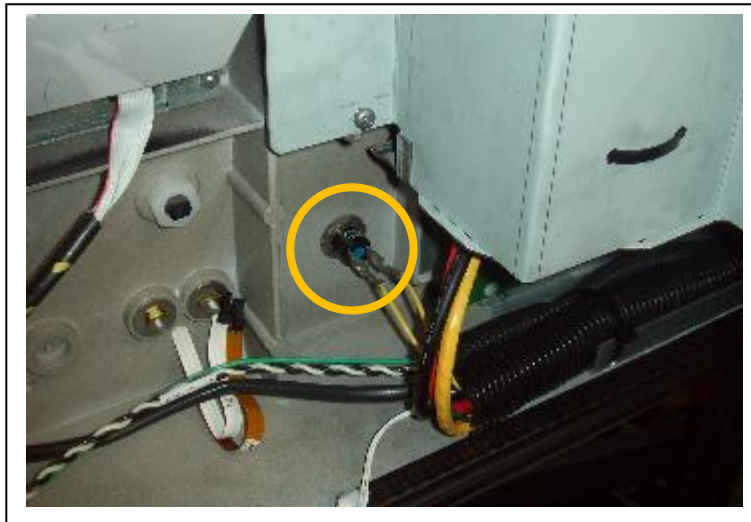


Retrofit G6-300 + InvencoLink Wayne Vista 4V (US) Installation Guide

98. Reconnect the PPU Display cables.

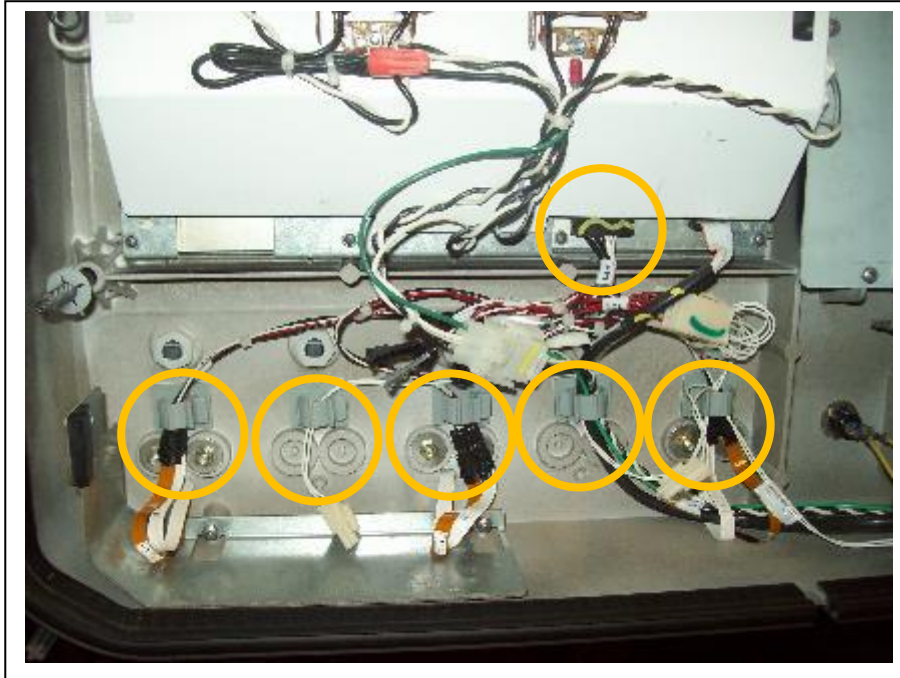


99. If fitted, reconnect the two yellow spade terminals onto the Attendant Call Button.

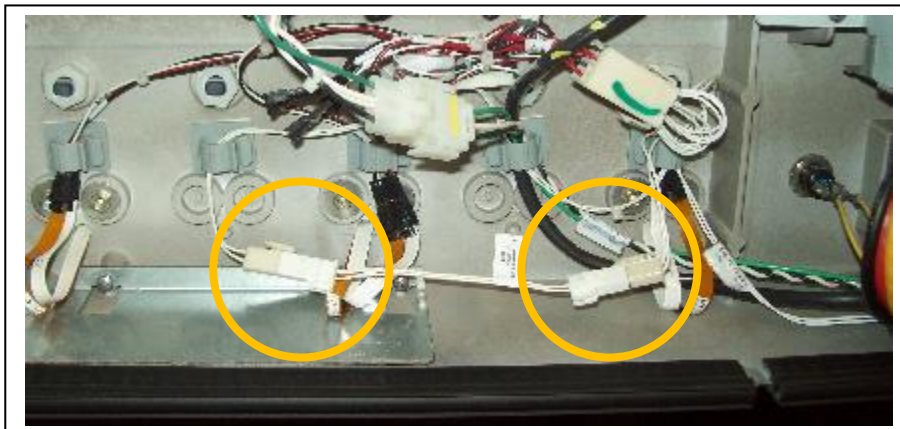


Retrofit G6-300 + InvencoLink Wayne Vista 4V (US) Installation Guide

- 100.** Apply five MF0046 self-adhesive cable ties 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 ties.

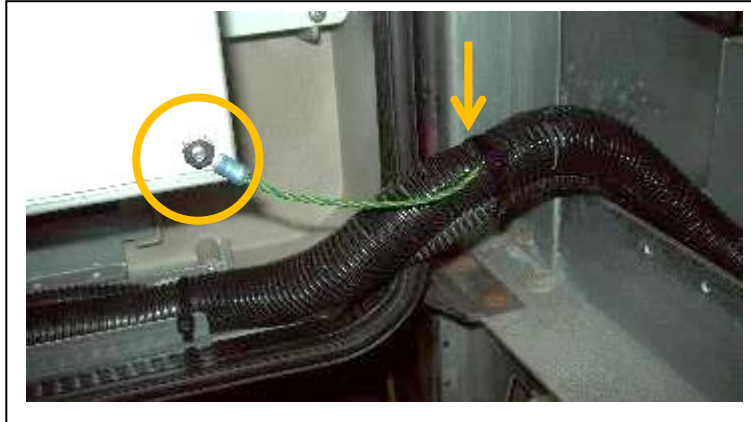


- 101.** If the Fuel grade Selector Switches are the type with the built in LEDs (two ribbon cables), reconnect the power feed for the LEDs using cable EK0202. Secure any excess cable into the cable ties.



Retrofit G6-300 + InvencoLink Wayne Vista 4V (US) Installation Guide

- 102.** Fit grounding cable EK0132 to the back of the sheet metal shield using #8-32 SEMS nut MN0029. Fasten with an 11/32" socket. Feed the cable into the cable trunking first and then secure with a cable tie. Check that the main Retrofit Kit door can open and close without pinching this cable.



- 103.** Attach the other end of this grounding cable to the dispenser chassis using an existing grounding screw or nut.
If the dispenser is a Vista 3V, this can be the same position identified in Step 60 which is clear of the Adapter Plate.
If the dispenser is a Vista 4V, use the position shown below right.



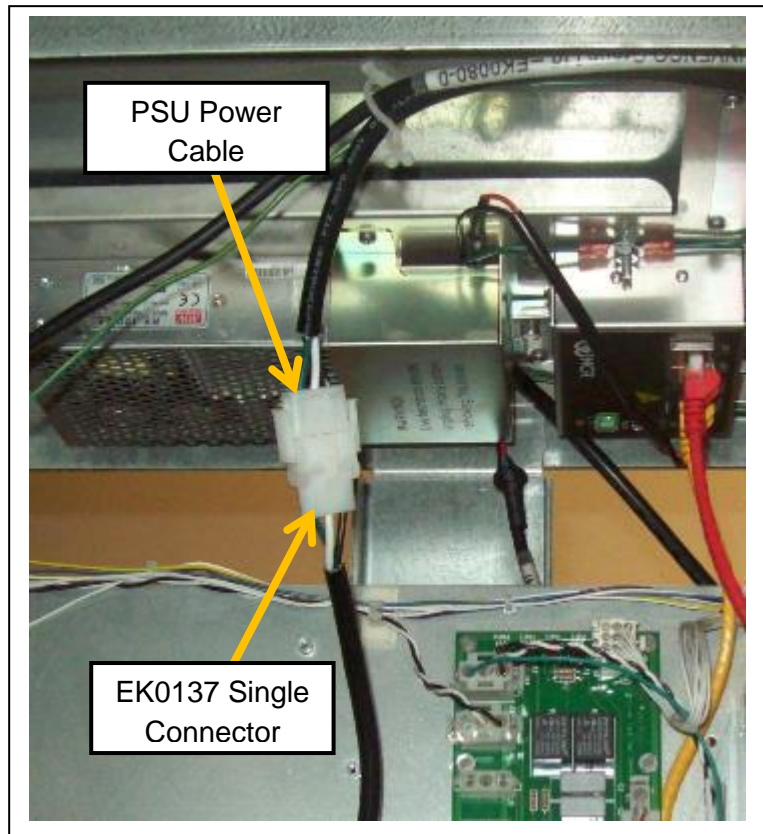
Vista 3V dispenser grounding position.



Vista 4V dispenser grounding position.

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- 104.** The EK0137 AC Mains cable has double-connectors at one end and a single connector at the other end. Plug the single-connector end into the mains connection on the previously installed PSU Plate assembly (Vista 4V shown below, however cables are the same in the Vista 3V PSU Plate assemblies).

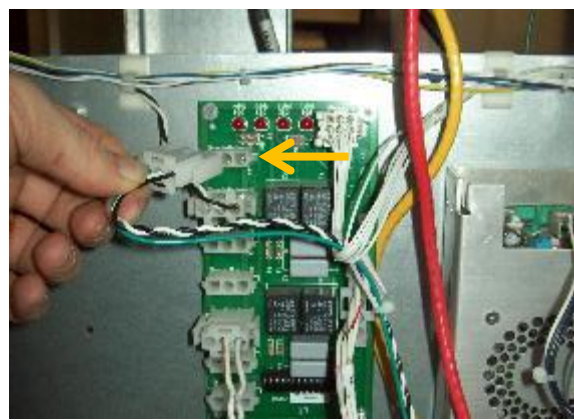


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- 105.** From Side A, unplug the mains connector from the Relay Board. In a Vista 3V this is located at the bottom of the electrical enclosure (both Narrow and Wide Frame dispensers) and is the same board where the Heater was disconnected in Step 70. In a Vista 4V this is located on the internal panel inside the dispenser cabinet (both Narrow and Wide Frame dispensers).
-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.

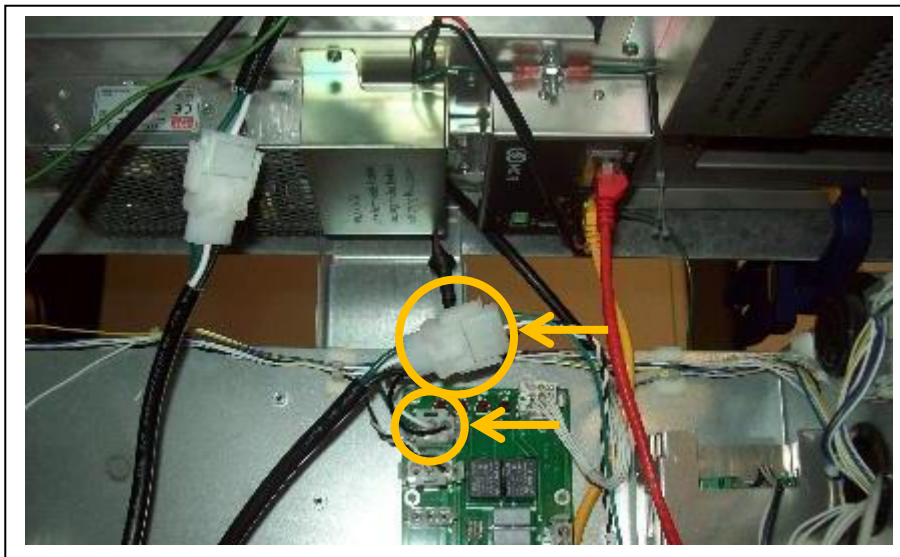


Relay Board. Vista 4V location shown.



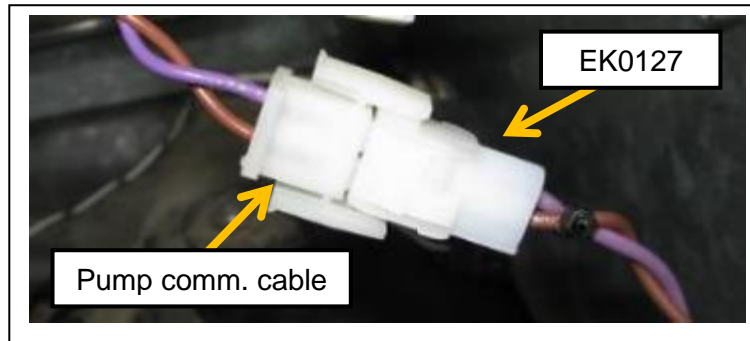
Unplug mains connector.

- 106.** 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 105 into the remaining open connector socket on EK0137. Repeat for both sides of the dispenser.
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.

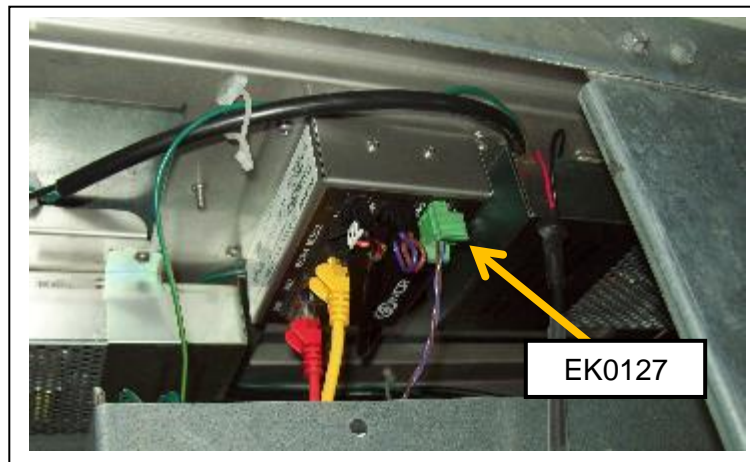


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Connect female end of the EK0127 two-wire communication cable into the pump's communication loom (the connector marked in disassembly Step **55** for a Vista 3V, and Step **78** for a Vista 4V). The existing dispenser Pump Comm Cable may be purple and brown as shown, or white and brown.




- 108.** Route the EK0127 cable through to the PSU Plate Assembly that contains the InvencoLink converter, and plug the other end of the cable into the LINE port on the InvencoLink converter. Example shown below is a Vista 4V, however the cables and connectors are the same for the Vista 3V.

**109. 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. The rear of the G6-300 OPT has plastic loops close to the connectors that are intended to assist with this.

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

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- 110.** Carefully close the Small Right-Side Door, making sure the no cables are pinched, and secure the latch. Repeat for each side opened during the installation.

Close the main replacement RFK door and ensure the door is fastened using the special Wayne Security Key. Repeat this for the other side. If the installation is a single sided dispenser, check that the other side is closed and secure if it has been opened during the installation.

If locked, unlock the OPT 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.

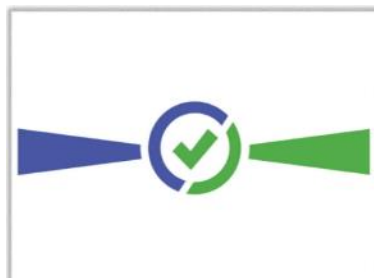
7 First Power-Up

Once the installation is complete and the wiring is certified (if necessary), power may be applied. The G6-300 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):

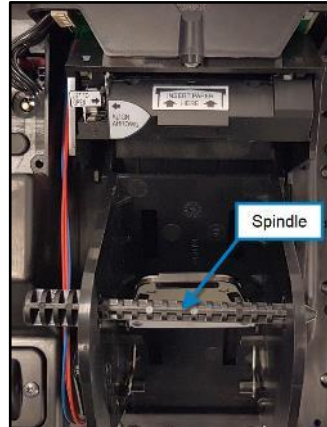
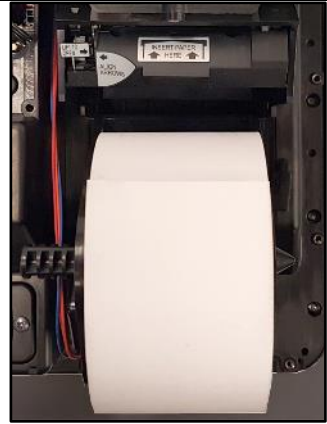



If the terminal is successful in connecting to the LAN it will display the following screen and the rest of the start-up sequence will continue:




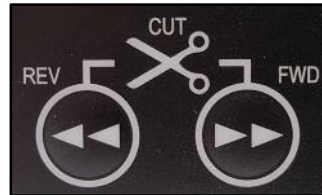


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The following steps describe the paper loading procedure.

Step	Description	Photo reference
1.	Ensure the paper roll has a neat cut edge.	
2.	Remove spindle from the paper holder position. Note orientation of the spindle (handle to left)	
3.	Insert roll in place – the paper tension flap is spring-loaded so you will need to apply some pressure. Insert the spindle through the middle of the roll to hold in place.	
4.	Insert the cut edge of the paper into the slot as shown by the label. Note: Insert until the printer grips and feeds automatically.	

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5.	The photo shows the paper loaded correctly.	
6.	<p>Paper-feed buttons are located on the top of the terminal.</p> <p>Press either button   to move the paper forward or back.</p> <p>Press both buttons together to cut the paper.</p>	
7.	<p>Use the paper-feed buttons to advance the paper through the terminal until it appears at the paper exit chute.</p> <p>Cut the paper using both paper-feed buttons, then remove the cut length from the chute.</p>	