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# Retrofit G6-300 / G6-400 + InvencoLink / PIB Wayne Ovation 2 (Canada & US) Installation Guide

Kit Part Numbers	Brief Description
RF00046-XX	G6-300 / G6-400 OVATION 2, Black Kit
RF00057-XX	G6-300 / G6-400 OVATION 2, Colored Kit



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## Release History

Version	Prepared by	Date	Change description
0	Adam Crocker	13-Jul-2020	Initial draft
1	Michael Doh	03-Aug-2020	Review and updates for UL submission
2	Michael Doh	06-Aug-2020	Corrections to part numbers and added cabling instructions
3	Michael Doh	08-Aug-2020	Updated MP0528 image
4	Michael Doh	20-Oct-2020	Reverted printer blank panel gaskets to two-piece design
5	Jojie Adigue	21-Oct-2020	Added new colored kit (RF00057-XX)
6	Michael Doh	03-Dec-2020	Part number reference corrections
7	Michael Doh	06-Dec-2020	Part number reference corrections
8	Michael Doh	15-Dec-2020	Part number reference corrections
9	Jojie Adigue	03-Feb-2021	Changed the power supply P/N from EZ0632to EZ0704
10	Jojie Adigue	14-Feb-2021	OPT module will be pre-installed at the factory instead
11	Michael Doh	17-Feb-2021	Part number and quantity correction
12	Michael Doh	19-Feb-2021	Part number correction
13	Michael Doh	02-Sep-2021	Included Canada Certification
14	Michael Doh	20-Sep-2021	Added note to review the complete document prior to installing
15	Shibani Joshi	23-Feb-2022	Pump Interface Board (PIB) install procedure added and updated PSU Assembly P/N from EZ0632 to EZ0704
16	Shibani Joshi	12-April-2022	UL Comments addressed



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17	Shibani Joshi	22-Jun-2022	UL Comments addressed
18	Shibani Joshi	28-Jun-2022	UL Comments addressed
19	Shibani Joshi	02-Feb-2023	Added content for G6-400 OPT installation and updated PSU to EZ0853 with the two power cable connections.
20	Shibani Joshi	19-June-2023	UL Comments addressed. No BoM changes.

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### 1 Introduction

The documentation provides some basic guidelines for installing the G6-300 / G6-400 Outdoor Payment Terminal (OPT) system:

- G6-300 / G6-400 (Outdoor Payment Terminal (OPT) system, Black Kit part number: RF00046-XX
- G6-300 / G6-400 (Outdoor Payment Terminal (OPT) system, Colored Kit Kit part number: RF00057-XX

For a double-sided installation, two of these Kits are required.

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 these 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.

Note: There are images with the OPT fitted during the installation procedure throughout the document. Depending on which kit you are installing, it could be the G6-300 or the G6-400 OPT. Refer to the below images to identify the OPT you are working with:



G6-300 OPT



G6-400 OPT



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This Retro-Fit Kit can be installed into either Side A or Side B of a Wayne Ovation2 dispenser;

• 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 MAY require the pre-installation of UL Listed by Report Retrofit Kit Part Number RF00033-XX (Invenco Link Converter) before installation into the dispenser. The process is covered in §4.3.2 Install the Dispenser Invenco Link converter to the PSU Pane procedure of this instruction, by reference to the instructions in that Kit.

**Note:** The Invenco Link is only required if the ethernet cable is not installed in the dispenser as per step 8.b of the Disassembly process. This should be checked prior to the installation.

This installation MAY require the pre-installation of UL Listed by Report Retrofit Kit Part Number RF00100-XX (Pump Interface Board) before installation into the dispenser. The process is covered in §4.2 Pre-Installation Procedure of this instruction, by reference to the instructions in those Kits.

Note: The PIB Installation is only for the G6-300 / G6-400 OPT (RF00046-XX and RF00057-XX)

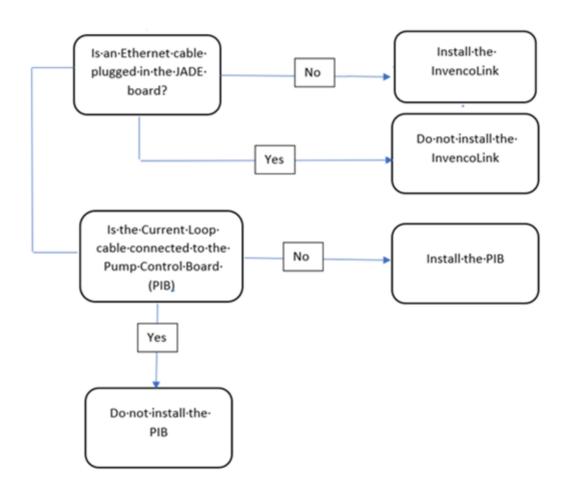
**Note:** The PIB is only required if the Current Loop Cable is not connected to the Pump Control Board as per step 8.e of the Disassembly process. This should be checked prior to the installation.

**Note:** The PIB can only be installed in a double-sided pump.

The pre-installation will be required on side B of the dispenser.Refer to the below flowchart for further reference:



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### 1.1 Tools Required

The following tools are required to mount the G6-300 / G6-400 OPT:



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- Torx T25 security screwdriver
- Philips #1 screwdriver
- Philips #1 screwdriver with >5" shaft
- Flat 5mm screwdriver
- Small adjustable spanner
- Side cutters
- Cable (zip) ties
- Pliers
- 1/4" Socket or Nut Driver
- Small flat blade scraper or putty knife.
- Toweling cleaning rags.
- Household sticky residue remover containing limonene
- 100% Isopropyl Alcohol (IPA) cleaner.



#### **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

#### 1.2.1 G6-300 / G6-400 (Outdoor Payment Terminal (OPT) system (RF00046-XX), Black:

Unpack the G6-300 / G6-400 Retro-Fit Kit (RF00046-XX) and check that all the parts listed below are present. Also refer to the pre-installation procedure (section 6.1.) relating to the communication method parts.

Retrofit Kit Contents		
Part Number	Description	Illustration
RP00046-XX	Ovation 2 Door Assembly with G6-300 / G6-400 OPT module	



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EZ0853	PSU Plate Assembly with cables	
MZ0116 (497-0517179)	G6-300 Isolating cover with captive screws	
MP0985 (497-0515361)	Ovation PSU Bracket	



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DK0015 (497-0518659)	PPU lens gasket, Ovation 2	
EP0095 (497-0518661)	Customer Display Lens Gasket	

Cables kit comprising:		
EK0127 (497-0513684)	Wayne Pump to InvencoLink	
EK0131 (497-0513384)	Cat-5e, Flexible, YELLOW	
EK0137 (497-0513683)	Wayne Pump to Pump Adaptor	
2 x EK0132 (497-0513687)	Grounding cable	



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EK0130 (497-0513215) Grounding cable for isolating cover



Ovation 1 G6 Fastener kit, comprising: 2 x MN0029: #8-32 Lock Nuts (ext. washer)

Ovation 2 Fastner kit, comprising:

29 x MS0050 (006-8625469): 3mm Hex Key Screws 6 x MW0057 (006-8625470): #8 Sealing Washers

4 x MS0253 (006-8626488): #6-19 x ½" Pan head philips screw (security switch screw) 2 x MN0077 (006-8611471): ¼-20 Nuts



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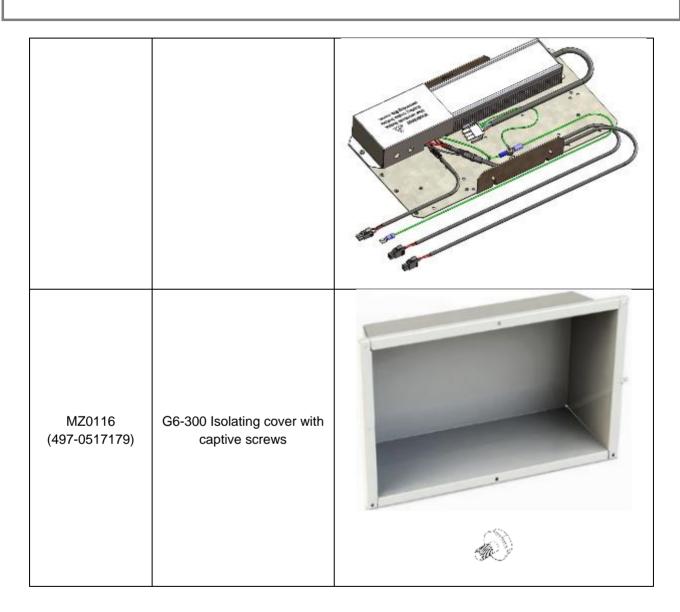
## 1.2.2 G6-300 / G6-400 (Outdoor Payment Terminal (OPT) system (RF00057-XX), Colored Kit:

Unpack the G6-300 / G6-400s Retro-Fit Kit (RF00057-XX) and check that all the parts listed below are present. Also refer to the pre-installation procedure (section 6.1.) relating to the communication method parts.

Retrofit Kit Contents		
Part Number	Description	Illustration
RP00057-XX	Replacement Ovation 2 colored door assembly with G6-300 / G6-400 OPT module	
EZ0853	PSU Plate Assembly with cables	



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MP0985 (497-0515361)	Ovation PSU Bracket	
DK0015 (497-0518659)	PPU lens gasket, Ovation 2	
EP0095 (497-0518661)	Customer Display Lens Gasket	

	Cables kit	comprising:
EK0127 (497-0513684)	Wayne Pump to InvencoLink	



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(497-0513384) Cat-5e, Flexible, YELLOV	
EK0137 Wayne Pump to Pump (497-0513683) Adaptor	
2 x EK0132 (497-0513687) Grounding cable	
EK0130 Grounding cable for (497-0513215) isolating cover	

Ovation 1 G6 Fastener kit, comprising: 2 x MN0029: #8-32 Lock Nuts (ext. washer)

Ovation 2 Fastner kit, comprising: 29 x MS0050 (006-8625469): 3mm Hex Key Screws 6 x MW0057 (006-8625470): #8 Sealing Washers

4 x MS0253 (006-8626488): #6-19 x ½" Pan head philips screw (security switch screw) 2 x MN0077 (006-8611471): ¼-20 Nuts

## 2 Safety & Compliance Information

This section introduces the hazards and safety precautions associated with installing, inspecting, maintaining or servicing the G6-300 / G6-400. 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, vapour, and high voltage. Only trained or authorized individuals knowledgeable in the related procedures should install, inspect, maintain or service this equipment.



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### 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 Invenco 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.

### 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.



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### 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.

1

WARNING: Alerts you to a hazard or unsafe practice that could result in death or

serious injury.

1

**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.

For Canada: Follow all applicable requirements in Canadian Electrical Code (CE Code), CSA C22.1.

For USA: 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.



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#### 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.)

#### 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 / G6-400 OPT has UL File References of E469526 and E480135 and carry labels similar to this:



The Invenco Retro-Fit Kit has UL File Reference of MH.61528

### 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 Installation Guide

- 1. Please ensure all safety procedures are followed per requirement by the customer before installing the retrofit kit.
- 2. 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.

3. This installation will require various panel replacements. The panels will be removed from the door and replaced with pre-built panels with the OPT modules pre-fitted.

### 4.1 Disassembly Procedure

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

- Removal of reused components, e.g. PPU panel
- Unused cables and wires from door components

<u>Note</u>: Throughout this disassembly procedure there are many cable assemblies that will be unplugged and will not be reused. It is up to the discretion of the installer whether to remove these cables or position them inside of the dispenser cavity. The loose cables need to be bundled and restrained using zip-ties or cable restraints. After the cables have been bundled, they must be placed in a location that will not cause obstruction, exposure, or hazard.

<u>Note</u>: It may be necessary to disconnect cable assemblies on various boards during this disassembly procedure in order to more easily access other components. Disconnect these cables as necessary. It is recommended that the installer of this kit either re-connect these cables immediately afterwards or mark each disconnected cable before it is unplugged to make it easier to identify when it comes time for reinstallation.



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- 1. Shut off the main power to the dispenser before beginning the deinstallation.
- 2. Identify Side A and Side B.

a. Locate the Serial Plate on the side of the dispenser.





Serial Plate

#### **NOTE:**

If a Serial Plate is not present, Side B can be identified once the Pump has been opened. The IGEM Board will be located inside the electronic cabinet on Side A.

- 3. Open the dispenser.
  - a. Use a Wayne Security Key to unscrew the two security bolts located on the left side of the dispenser electronics door.



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Security Bolts

b. Open the Electronics door and engage the Prop Rod.



Door Prop

4. Remove the PPU panel.

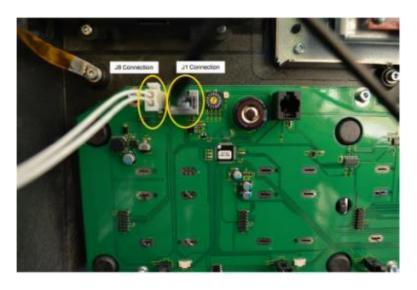


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PPU Panel Removal

a. Two wires are connected to the PPU panel. Connection J8 is power. Connection J1 is comm to the Customer Display Node. Detach both cables. The cable connected to J8 can be discarded. The connection to J1 must be retained.

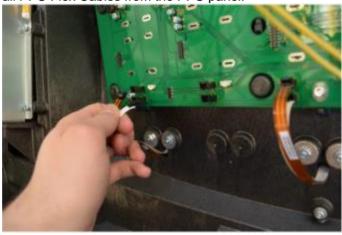


Connectors J1 & J8



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b. Detach all PPU Flex Cables from the PPU panel.



Flex Cable Removal

#### Note:

Record the positions of the PPU paddles so they can be reinstalled in the correct position

c. Unscrew with a 3mm Hex Key the 6 screws holding the PPU Panel from the door and set aside to be reinstalled. Discard the Screws.



**Hex Screws** 



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- 5. Remove the Metal Cosmetic Cover.
  - a. Unscrew the 6 Hex screw and washer assemblies attaching the cover to the door. Discard the washer and screw assemblies.



Hex screws & Washers

b. Pull away the PPU Cosmetic Cover and retain.



PPU Cosmetic Cover



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- 6. Remove the PPU Screen Lens.
  - a. Unscrew the Lens Cover from the door using a 3mm Hex Key. Retain the Lens Cover and discard the hardware.



Lens Cover Removal

b. Remove and retain the PPU Lens.



PPU Lens



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7. Remove the PPU Paddles.

#### Note:

Record the positions of the PPU paddles so they can be reinstalled in the correct position

a. Using a 11/32 socket wrench, remove each PPU Paddle nut and washer assembly and retain all components.



PPU Paddle Nut Removal

b. Slowly remove the PPU paddle with back gasket from the door. Feed the Flex Cables through the opening. Retain all PPU paddle components.

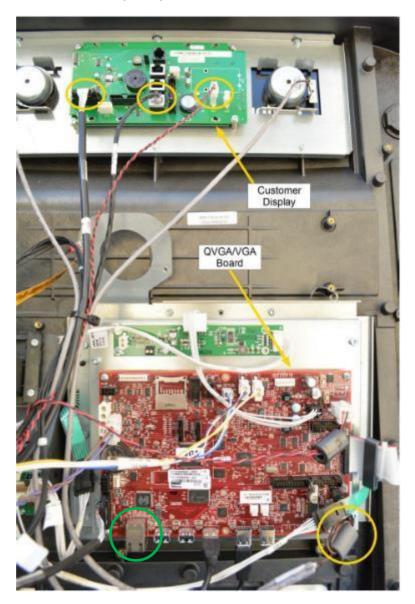


PPU Paddle with Gasket



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- 8. Detach the Customer Display node.
  - a. Mark the wired connections to the Customer Display node including the speaker connector to the QVGA or VGA (JADE) Board.



Cable Connections



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b. Detach the marked cables and wires including the speaker wire (not shown). Check if the Ethernet Cable is plugged in (marked with a green circle above), Unplug it and label it for connecting to the OPT later.

Note: If the Ethernet cable is plugged in, then the InvencoLink does not need to be installed.

#### Note:

Once the centre CAT cable is unplugged it will be loose. Set aside, **Do Not Discard**.



**CAT Cable** 

c. Unscrew with a 3mm Hex Key the 6 screws holding the Customer Display node from the door, remove, and set aside to be reinstalled. Discard hardware. The display glass may be loose once removed. Use care once the Customer Display is removed. Retain the display glass as well.



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**Customer Display** 

d. Identify, mark, and detach the Comm cable attached to the QVGA/VGA (JADE) board on the door.



Detach Comm Cable

e. Identify the Pump Control Board and check for the Current Loop Connector. If the Current Loop Cable is attached here, then you don't need to install the PIB.

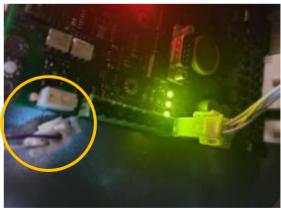


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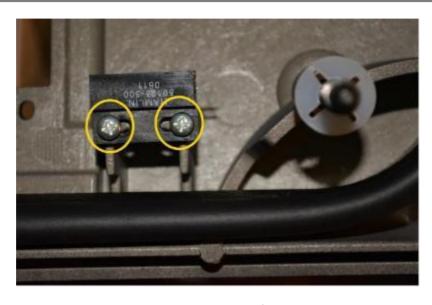




f. Remove the security switch if present and retain. Discard the attaching hardware.



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Security Switch

- 9. Remove the two Security Bolts.
  - a. Pull off the plastic captive cone from the end of the security bolt and retain.



Plastic Captive Cone

b. Pull out the security bolt and retain.



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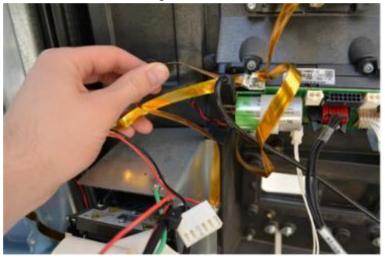
Security Bolt



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- 10. Remove Unused Cables and Wires from the Door Components

  Detach the Card Reader and QVGA/VGA (JADE) components
  - a. Unplug all grounds and cables attaching the Card Reader to the electronics cabinet.

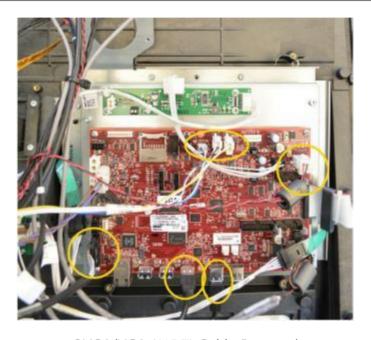


Card Reader Cable Removal

b. Unplug all cables attaching the QVGA/VGA (JADE) Board to the electronics cabinet.



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QVGA/VGA (JADE) Cable Removal

c. Detach any remaining cables or wires connecting the dispenser door to the electronics cabinet.



Remove Remaining Cables



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- 11. Removing the Door from the Dispenser
  - a. Detach the prop rod from the prop rod door bracket using a 4mm Hex Key. Remove and retain the now loose prop rod and connection hardware.



Prop Rod Removal

b. Unscrew the 3 screws using 3mm Hex Key holding the prop rod door bracket from the door. Remove and retain the bracket. Discard the three hex screws.



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Prop Rod Bracket Removal

c. Push up the top hinge pin and retain.



Top Hinge Pin Removal

d. Lean the door forward off the top hinge. Lift the door up and away from the dispenser. Retain the bottom pin. Discard the door.



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Door Lifted Off Dispenser



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#### 4.2 Pre-Installation Procedure

There are one or two pre-installation procedures to be performed, depending on which side you are installing:

- If you are installing Side A, perform procedures 4.2.1 and 4.2.2.
- If you are installing Side B, perform procedure 4.2.1, and ensure you have installed Side One before continuing.

#### 4.2.1 Install the InvencoLink Converter

This Retro-Fit Kit does not include a communications method for the OPT. When this Retro-Fit Kit is being installed on Side A (i.e. the first side) of the dispenser, a communications method MAY first need to be installed.

**Note:** If there is an existing Ethernet cable connection in the dispenser, then the InvencoLink is not required.

If it is confirmed that the InvencoLink Converter needs to be installed, then follow the procedure outlined in the rest of this section. Otherwise proceed to §4.2.2 Pump Interface Board Procedure.

The approved communications methods are listed below.

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

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 §4.2.2 Install the Pump Interface Board.

For Side A (i.e. the first side), select the PSU Plate Assembly EZ0853 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 §4.2.2 Install the Pump Interface Board.

#### 4.2.2 Install the Pump Interface Board (PIB)

When this Retro-Fit Kit is being installed on Side B (i.e. the first side) of the dispenser, a Pump Control method MAY first be installed for the OPT as per the note in the Introduction section of this manual, as repeated below.

**Note:** The PIB is only required if the Current Loop Cable is not connected to the Pump Control Board as per step 8.e of the Disassembly Process. This should be checked prior to the installation.



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If it is confirmed that the Pump Interface Board needs to be installed, then follow the procedure outlined in the rest of this section. Otherwise proceed to §4.3 Installation Procedure.

The approved Pump Control methods are listed below.

UL Report Number	Kit Part Number	Retro-Fit Kit Description
MH61528	RF00100-XX	Pump Interface Board (PIB)

Note: The PIB can only be installed in a double-sided pump.

The pre-installation will be required on side B of the dispenser.

For Side B (i.e. the first side), select the PSU Plate Assembly from this Retro-Fit Kit package and apply the Pump Control method selected from the table above, following the installation instructions supplied with that Kit (DCV-00634).

Once the Pump Control method has been installed onto the PSU Plate Assembly, proceed to §4.3 Installation Procedure.

#### 4.3 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 are working on.

#### 4.3.1 New Door Preparation

1. Drill PPU Flex Cable and Attachment Stud Holes to the replacement Ovation 2 Door assembly (RP00046-XX) for black RFK kit or (RP00057-XX) for colored RFK kit.

#### Note:

Read all instructions prior to beginning this section.

# Warning:

The following steps must be completed prior to beginning the installation process at the pump dispenser. Power tools like drills cannot be used near the pump dispensers. Power tools cannot be used in a hazardous location within a dispenser site. Remove the doors to a safe location prior to drilling or use pneumatic tools.



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**Caution:** 

Use care when drilling to align the holes and centre them as indicated.



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a. Identify the amount and location of PPUs according to the removed PPU plate from the old dispenser door.



**PPU Plate** 

b. Begin drilling the PPU Flex Cable hole on the indention corresponding to the correct PPU location using a 3/8 drill bit. Plunge the hole to clean up the edges.

### Caution:

Verify the PPU positions prior to drilling.



Drilling PPU Flex Holes



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c. Repeat the process until all needed PPU Flex Cable holes are drilled.

**Caution:** 

Verify the PPU positions prior to drilling.

- 2. Drill the PPU Attachment Bolt holes.
  - a. Identify the bolt hole wells corresponding to the drilled Flex Cable holes. these will be located above the Flex Cable hole.



**Identifying Bolt Holes** 

b. Drill holes using a 3/16 drill bit in each identified bolt well following the indention as a centring guide. Plunge the holes to clean up the edges.

Caution:

Verify the PPU positions prior to drilling.



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**Drilling Bolt Wells** 

- c. Repeat the process until all needed PPU attachment bolt holes are drilled.
- 3. Install the PPU Components

## Warning:

The following steps must be completed prior to beginning the installation process at the pump dispenser. Power tools like drills cannot be used near the pump dispensers.

a. Install the PPU Paddles to the door. Route the top PPU Flex Cable through the drilled Flex Cable Hole from the outside.

#### Note:

Verify the PPU paddle corresponds with the proper PPU locations recorded during the reinstallation process.



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PPU Paddle Installation

b. Route the lower flex cable through the Flex Cable Hole from the outside and pull the cables through the door until the PPU paddle's bolts line up into the bolt wells.



Routing Cable

c. Insert the bolts into the drilled bolt holes in the bolt wells.

### Caution:

If the PPU paddle does not sit flush, plunge the bolt holes to open the area for the bolt until the paddle does sit flush against the door.



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d. Attach the PPU paddles to the door by hand tightening the retained nuts and washers to the PPU paddle bolts on the back side of the new dispenser door.



Attaching PPU Paddles

e. Use a 11/32 socket wrench to tighten the nuts to the dispenser door. Repeat until all PPU paddles have been installed.



Tighten Paddles in Place

- 4. Install the retained PPU Screen Lens.
  - a. Remove the gasket material from the PPU Glass Lens Pane. Clean the surface of the glass where the gasket was removed.



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**PPU Glass** 



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b. Install the new PPU Lens Gasket (DK0015 or 497-0518659) to the PPU Glass Lens Pane. Install the new gasket ensuring the gasket is properly seated around the glass lens pane, by firmly pushing the gasket into place around the lens.



Seating the Gasket

c. Install the PPU Lens into the lens recess in the new door.



Installing the PPU Lens



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d. Place the retained Lens Cover over the lens, making sure the cover properly fits in the lens recess.



Fitting Retained Lens Cover

e. Use the 8 supplied screws (MS0050 or 006-8625469) to tighten the cover to the screen with a 3mm Hex Key. Alternate tightening each screw, starting in the centre and radiating out to apply even pressure for a proper water seal.



Sealing the screen



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- 5. Install the metal cosmetic cover.
  - a. Place the previously retained metal cosmetic cover over the PPU paddles and screen assembly.

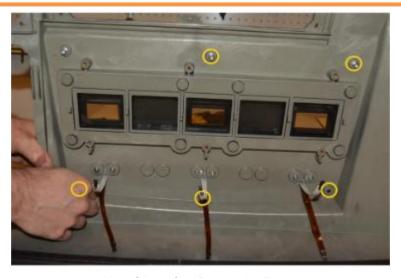


Cosmetic Cover

b. Turnover and attach the metal cover with the 5 sealing washers (MW0057 or 006-8625470) and screws (MS0050 or 006-8625469) assemblies where indicated.

#### Note:

To properly thread the screws into the cover, push in the cover from the front opposite each screw location while installing each screw.

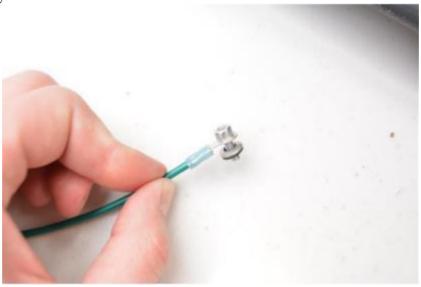


Attaching the Cosmetic Cover



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c. Install the ground cable (EK0132 or 497-0513687) to the last (6th) screw and washer assembly.



**Ground Cable** 

d. Install the screw, cable, and washer assembly to the upper left corner as indicated below.



Upper Left-Hand Corner



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- 6. Install the PPU panel.
  - a. Place the previously retained PPU board onto the door with the screens facing forward and lining up the positioning key posts.



Positioning the PPU Panel

b. Attach the PPU board to the door with 6 screws (MS0050 or 006-8625469) with a 3mm Hex Key.

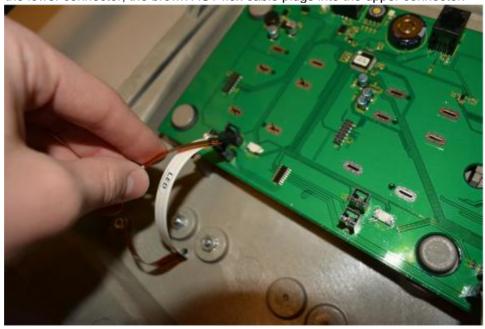


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Attaching the PPU Board

c. Plug in PPU paddle connections to the PPU board. the white LED flex cable plugs into the lower connector, the brown ACT flex cable plugs into the upper connector.



Plug in PPU Paddles



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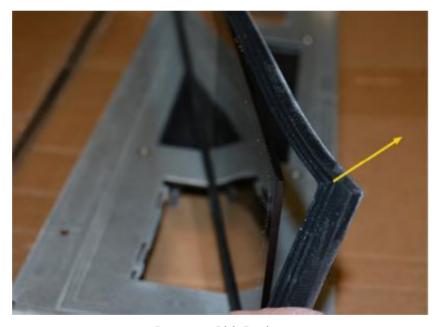
7. Install Retained Door Components

#### Replace the gasket on the Customer Display.

#### Note:

Sometimes the Customer Display glass pane will adhere to the metal Customer Display bracket. Use care when removing the glass pane to not damage the metal bracket and speakers or crack the glass.

a. Remove the gasket from around the Customer Display glass pane. Clean the surface of the glass where the gasket was removed.

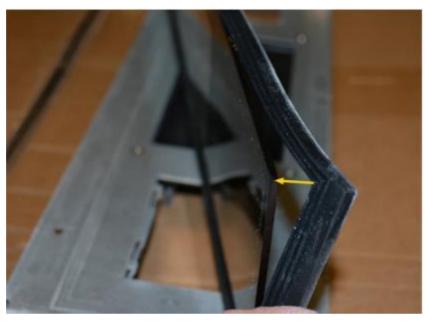


Remove Old Gasket

b. Install the new provided gasket (EP0095 or 497-0518661) around the glass pane.



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Install New Gasket

c. Install the Customer Display glass pane to the dispenser door. First, line up the glass pane with the top display opening. Verify the correct orientation: The speakers should be pointed to the inside of the dispenser. The display decal should be upright and readable from the front of the dispenser door.



**Check Orientation** 

d. Place in the glass pane and check to make sure the gasket is seated in the opening



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correctly. There should be no gaps.



Check Gasket Seating



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e. Install the retained customer display with 5 screws (MS0050 or 006-8625469) using a 3mm Hex Key to the positions indicated below. Be sure to route the speaker cables through the openings to avoid pinching or trapping them before tightening down the customer display metal bracket.



**Install Customer Display** 

f. On the bottom left corner of the customer display, install the screw with the grounding cable (EK0132). **Error! Reference source not found.** 



Grounding cable onto the screw.



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g. Install the screw cable assembly to the customer display where indicated below.



h. Install the Prop Rod door bracket previously retained using 3 hex screws (MS0050 or 006-8625469).



Prop Door Bracket



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i. Install the security switches if present using the 4 provided screws (MS0253 or 006-8626488).



**Switch Locations** 



Install with 2 screws per switch



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- 8. Install the security bolts.
  - a. Insert the previously retained security bolts into the security bolt holes in the front of the door on the left-hand side.



Inserting the Security Bolts

b. Install the retained plastic captive cone to the bolt on the back side as indicated below.



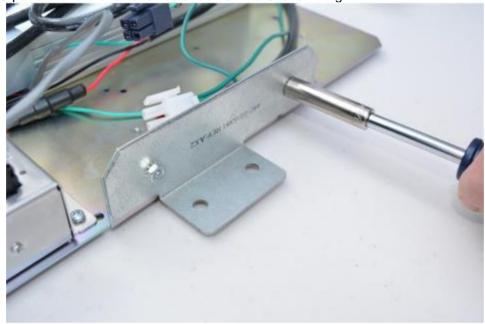
Plastic Captive Cone



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## 4.3.2 Install the Power Supply (EZ0853)

- 1. Install the PSU Panel to the pump
  - a. Install the Ovation 2 Installation bracket (MP0985 or 497-0515361) with two nuts (MN0029) on the PSU panel with the orientation as shown on the Ovation wing.

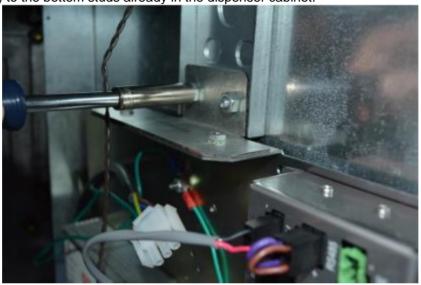


Ovation 2 Installation Bracket



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b. Install the PSU Panel to the right side of the dispenser using the 2 supplied nuts (MN0077 or 006-8611471) to the bottom studs already in the dispenser cabinet.



PSU Panel to RHS

- 2. Install Ovation 2 Power Cable Harness
  - a. Install the Ovation 2 Power Cable (EK0137 or 497-0513683) single connector end to the PSU Universal power connector.



Connect Power Cable

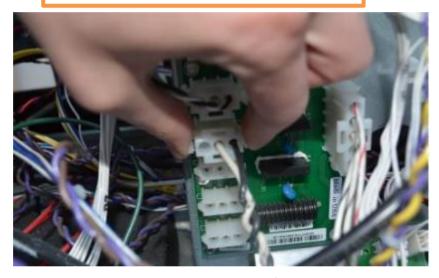


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- 3. Plug in the Power Cable Harness to the Dispenser Power board.
  - a. Unplug the AC Power In cable from the AC Distribution board.

### Note:

To identify the AC in cable, trace it back to the conduit into the dispenser cabinet.



AC Disconnected

b. Plug in the AC Power In cable to the Power Cable Harness.

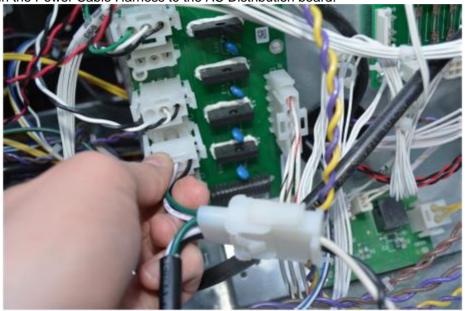


AC Power into Power Cable Harness



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c. Plug in the Power Cable Harness to the AC Distribution board.



Power to the Distribution Board

d. If installing the Side B PSU, daisy chain the Side A PSU into the Side B PSU and plug the Cable Harness into the Power Distribution Board.



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This step only applies if the InvencoLink is being installed

- 4. Install Invenco Link Dispenser Cables
  - a. Install the Wayne Comm Cable adapter (EK0127 or 497-0513684) to the Dispenser Invenco Link.

#### Note:

This is only needed during the side A installation.



Wayne Cable Adapter

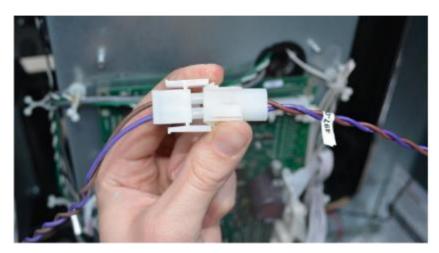
b. Install one of the Dispenser Comm Cables previously identified to the Cable Adapter.

#### Note:

Verify the correct cables match when connected. For example, brown to brown, purple to purple



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Comms Cables

5. Install the Network Cable.

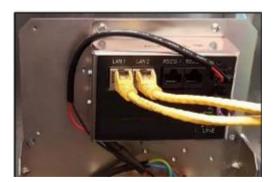
This step applies only if the InvencoLink is being installed (Side A only)

a. Install yellow CAT network cable (EK0131 or 497-0513384) into the Invenco Link LAN 1 terminal (for Side A).

#### Note:

Use the LAN 2 terminal for Side B installation.





Yellow Cat Cable - Side A (left) and Side A&B (right) connections

6. This step applies only if the PIB is being installed (Side B only)



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a. Identify the Wayne Current Loop cable (EK0243) that is screwed on the PIB terminal on one end. Trace the other end of the cable to identify the connector and plug it into the Pump Control Board.



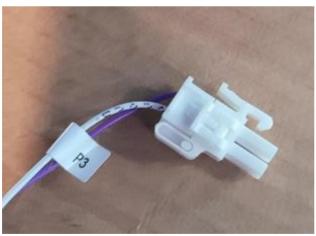


Pump Control Board



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b. Gather the DC Power and green/yellow earth cables from the EZ0853 PSU Plate assembly and EK0131 Yellow patch cables (if the InvencoLink is being installed), or the EK0243 the Wayne Current Loop Cable (if the PIB is being installed) and place them in the bottom of the pump cabinet near the side you are installing, ready for connection.



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## 4.3.3 Install the New Door to the Dispenser

- a. Replace the retained lower pin into the lower dispenser door frame hinge.
- b. Install the new dispenser door onto the lower pin and rotate the door up into the upper hinge.



New Door

c. Install the retained upper pin into the door hinge.



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Upper Door Pin

d. Reinstall the retained Prop Rod to the dispenser door.

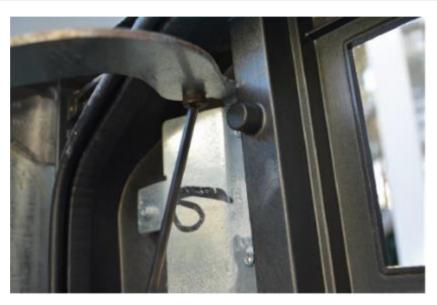


Retaining Prop Rod

e. Install the Prop Rod to the Prop Rod Door Assembly with a 4mm hex key and the previously retained hardware. Place the washer between the prop rod and door assembly and tighten the retained hex screw from the bottom of the assembly as shown.



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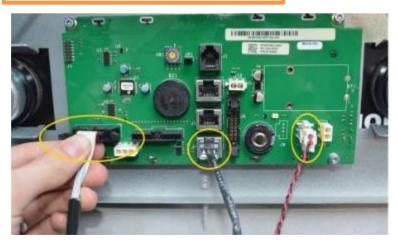
Prop Rod Retaining Hardware

## 4.3.4 Install the Cables and Wiring to the Dispenser Door

a. Reinstall the marked cables to the Customer Display Node.

### Note:

The speaker cable is not reinstalled.



Reinstall Cables



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b. Reinstall the marked cables to the PPU board.

#### Note:

Install the other end of the red and black power cable previously installed in the last step to the J8 connection on the PPU panel in place of the discarded white power cable.



PPU Cables Reinstalled

c. Route the four cables (Yellow LAN, 2 x Low-voltage DC, and Green-Yellow Earth) along the bottom of the dispenser cabinet and up the right-hand side. Use the dispenser's cable-clip to retain the cables about halfway up the right-hand side.:



Use the dispenser's clip to secure the three cables

d. This step only applies if the PIB is being installed.

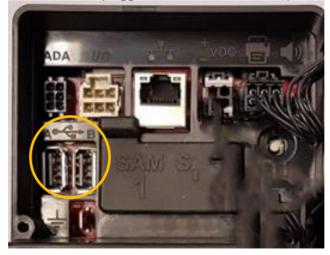
For The G6-400 OPT: Open the cover on the G6-400 unit to allow access to the connections



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Identify one of the USB cables plugged in the PIB. Trace the other end of one of the cables and plug into a spare USB port on the G6-300 / G6-400 SDC. It can be any of the 2 USB ports. (Each of the two USB cables will need to be plugged into Side A and Side B).



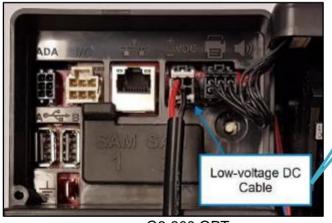


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For the G6-400, the other end of the USB cable can be plugged into any one of the 3 USB ports.



- e. Plug in the corresponding cables for the G6-300 / G6-400 OPT. First the low-voltage DC cable from the PSU Plate Assembly:
  - 1. **For the G6-300**: Plug one of the DC cables into the OPT and leave the other one unplugged.
  - 2. For the G6-400: Plug both the DC cables into the OPT





G6-300 OPT

G6-400 OPT

Low-Voltage DC cable

f. Connect the EK0131 Yellow Ethernet cable into the correct Ethernet socket on the OPT (if the InvencoLink is being installed), otherwise the ethernet cable that was uninstalled in the dispenser



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from the disassembly procedure. The port numbers on the InvencoLink for the cable (e.g. LAN-1) must match the side you're working on (e.g. Side A).:





G6-300 OPT

G6-400 OPTs

Yellow CAT5 LAN Cable

g. And finally, the Green-Yellow Earth cable from the PSU Plate Assembly:





G6-300 OPT

G6-400 OPT

Green-Yellow Earth Cable



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h. Gather the YELLOW, BLACK and GREEN/YELLOW cables (and the PIB USB cable if its being installed) from the above steps into a cable-tie on the upper left rear (as viewed from its rear) of the G6-300 OPT RFK Door:





G6-300 OPT

G6-400 OPT

Zip-tie the three cables

For The G6-400 OPT: Close the cover on the G6-400 unit.



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- Install the Isolating Cover (MZ0116 or 497-0517179) over the rear of the G6-300 OPT, onto the RFK Hatch Door.
  - a. Place the cover with the ground tab to the left over the G6-300 / G6-400 OPT, ensuring that the cables exit the cover above the Stand-Off by the earth tab, and that no cables are snagged.
  - b. MZ0116 (or 497-0517179) has captive screws for attachment. Tighten the eight captive screws into the previously-installed Stand-Offs, using a Philips screwdriver: Start with the bottom three screws. It is easier to install if the bottom three screws are done first:

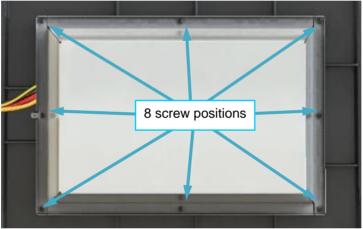


Figure 1: Captive screw positions

Plug the Grounding Cable (EK0130 or 497-0513215) onto the tab on the left of the Isolating Cover:

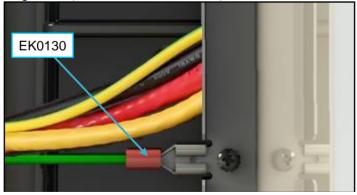


Figure 2: Connect EK0130 onto Grounding tab



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k. Loosen the nut on the earth stud on the PSU Plate assembly and secure the unconnected end of all the EK0130 (or 497-0513215) and EK0132 (497-0513687) grounding wires under the nut. Retighten the nut, and ensure all the earth connections are secure:

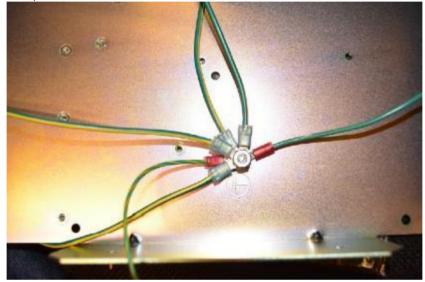
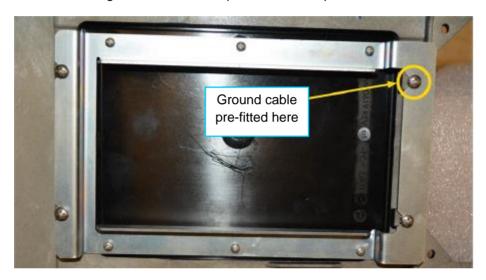


Figure 3: Add all ground cables onto earth stud



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NOTE: Ensure to include the ground cable that is pre-fitted on the printer door





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#### 4.3.5 Completing the installation

- Route all cables around and away from seals, gaskets, and sharp edges.
- Repeat the process for Side B of the dispenser.
- Close and seal the pump with the security bolts using the Wayne Security Key. Power can be returned to the dispenser

#### Caution:

Follow local regulations for certification and inspection prior to returning power or reopening the dispenser for costumers.

### 5 First Power-Up

Once the installation is complete and the wiring is certified (if necessary), power may be applied. The G6-300 / G6-400 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:



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.



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Step	Description	Photo reference (G6-300)	Photo reference (G6-400)
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)	Spindle	
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.		



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4.	Insert the cut edge of the paper into the slot as shown by the label. <b>Note</b> : Insert until the printer grips and feeds automatically.	MSERT PAPER HERE A	President de la constanción de
5.	The photo shows the paper loaded correctly.		
6.	Paper-feed buttons are located on the top of the terminal.  Press either button  to move the paper forward or back.  Press both buttons together to cut the paper.	REV CUT FWD	



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Use the paper-feed buttons to advance the paper through the terminal until it appears at the paper exit chute.

7.

Cut the paper using both paper-feed buttons, then remove the cut length from the chute.



