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Retrofit G6-300 + InvencoLink Harmony (US) Installation Guide		

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Kit Part Numbers:

RF00089-XX

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Release History

Version	Prepared by	Date	Change description
0	Jojie Adigue & Michael Doh	27-May-2021	Initial Release
1	Michael Doh	28-May-2021	Updates from the trial installation
2	Michael Doh	05-Apr-2022	Updates from UL comments
3	Shibani Joshi	02-May-2022	Updates to Power Supply Unit (PSU) assembly part number

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1 Introduction

The documentation provides some basic guidelines for installing the G6-300 Outdoor Payment Terminal (OPT) system in a Wayne Harmony dispenser:


- G6-300 Outdoor Payment Terminal (OPT) system
Kit part number: RF00089-XX

This Retro-Fit Kit can be installed into either Side A or Side B of a Wayne Harmony 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 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.**

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

In particular, an earlier revision of the above Retrofit kit 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.

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1.1 Tools Required

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

- Philips #1 screwdriver
- Philips #2 screw driver
- Flat 5mm screwdriver
- Small adjustable spanner
- Side cutters
- Cable (zip) ties
- Pliers
- ¼" Socket or Nut Driver
- 9/32" Socket or Nut Driver
- 10/32" Socket or Nut Driver
- 3/8" Socket or Nut Driver
- Small flat blade scraper or putty knife.
- Towelling cleaning rags.
- Household sticky residue remover containing limonene.
e.g. Goo Gone®
- 100% Isopropyl Alcohol (IPA) cleaner.
- Scissors or knife



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

G6-300 Outdoor Payment Terminal (OPT) system (RF00089-XX):

Unpack the G6-300 Harmony Retro-Fit Kit (RF00089-XX) and check that all of the parts listed below are present.

Display RFK Hatch Panel with pre-installed G6-300 OPT (RP00089-XX):



PSU plate with cables (EZ0704):



RFK Hatch Panel Gasket (MP0526):



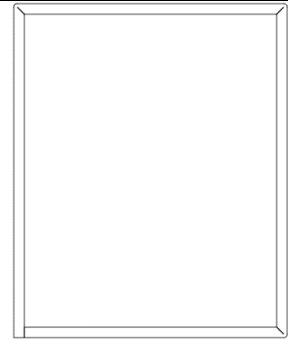
PSU mounting adaptor bracket (MP1181)



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1 x UPC blank panel assembly:
Each consisting of:
MZ0103 (or MZ0239) UPC blank panel (right)
MP0527 UPC blank panel gasket (right)
FK0019 UPC blank panel fastener kit (below)
consisting of:

- 4 x MS0148: M3x10 Philips #1 screw



Sundry Parts & Cables:



EK0131
Cat-5e, Flexible 2.5m, YELLOW

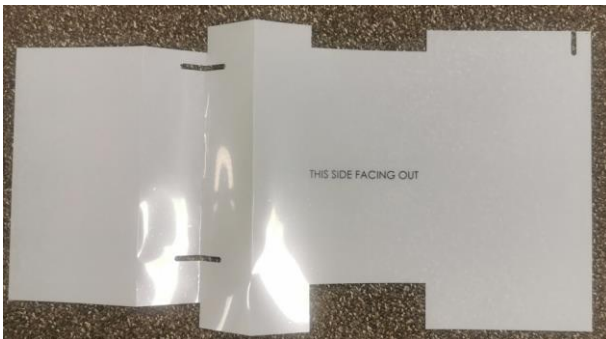


EK0137
Wayne Pump to PSU Adaptor



EK0127
Wayne Pump to InvencoLink

Insulation cover (MP1203)



Printer door decal (DL0423)



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M4 nuts for the mounting of Display RFK Hatch
Panel with pre-installed G6-300 OPT (8 x MN0078)




6-32 x 5/16" Screws for PSU mounting adaptor
bracket (2 x MS0147)



10-32 Nuts for PSU mounting adaptor bracket
(2 x MN0027)



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2 Safety & Compliance Information

This section introduces the hazards and safety precautions associated with installing, inspecting, maintaining or servicing the 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

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

2.6 Follow the Regulations

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

2.7 Replacement Parts

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

3 Safety Symbols and Terminology



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

Signal Words

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



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




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



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

Working With Fuels and Electrical Energy

3.1 Prevent Explosions and Fires

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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 the dispenser or island.

3.1.1 No Open Flames



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

3.1.2 No Sparks - No Smoking



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

3.1.3 Working Alone

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

3.1.4 Working with Electricity Safety

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

For US: 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).

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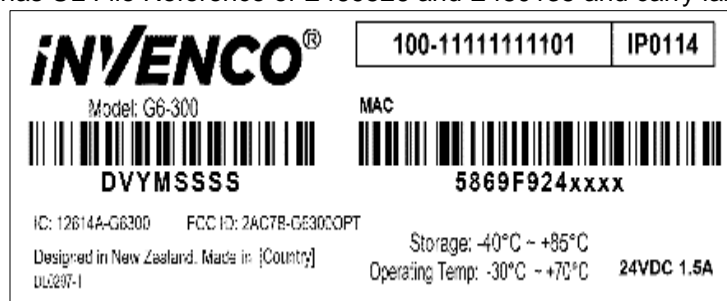
- Nature of accident (e.g. possible heart attack, struck by a vehicle, burns, etc).
- Age of victim (e.g. baby, teenager, middle-age, elderly).
- Whether or not victim has received first aid (e.g. stopped bleeding by application of pressure etc).
- Whether or not victim has vomited (e.g. if swallowed 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 has UL File Reference of E469526 and E480135 and carry 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 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 electronic payment assembly must be removed from the dispenser. This section covers the removal of these components including:

- Display/Keypad Assembly
- Card Reader Assembly
- Various Cable Assemblies

Note: 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.

Note: 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 re-installation.

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.

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2. Identify the A Side of the dispenser. The side that the totalizer is mounted on, located underside of the dispenser, is Side-A.



3. When looking on from side A, on the left-hand side of the dispenser, remove the advertising board by bending it out in the middle and sliding it up the side grooves. Retain the advertising board for later reinstallation.



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4. Beneath where the advertising board was, undo the four nuts that fix the outer plastic cover on to the metal panel with 10/32" size socket driver (retain these nuts for fixing the cover back in place later). Then remove the plastic cover off and set it aside for later re-installation.

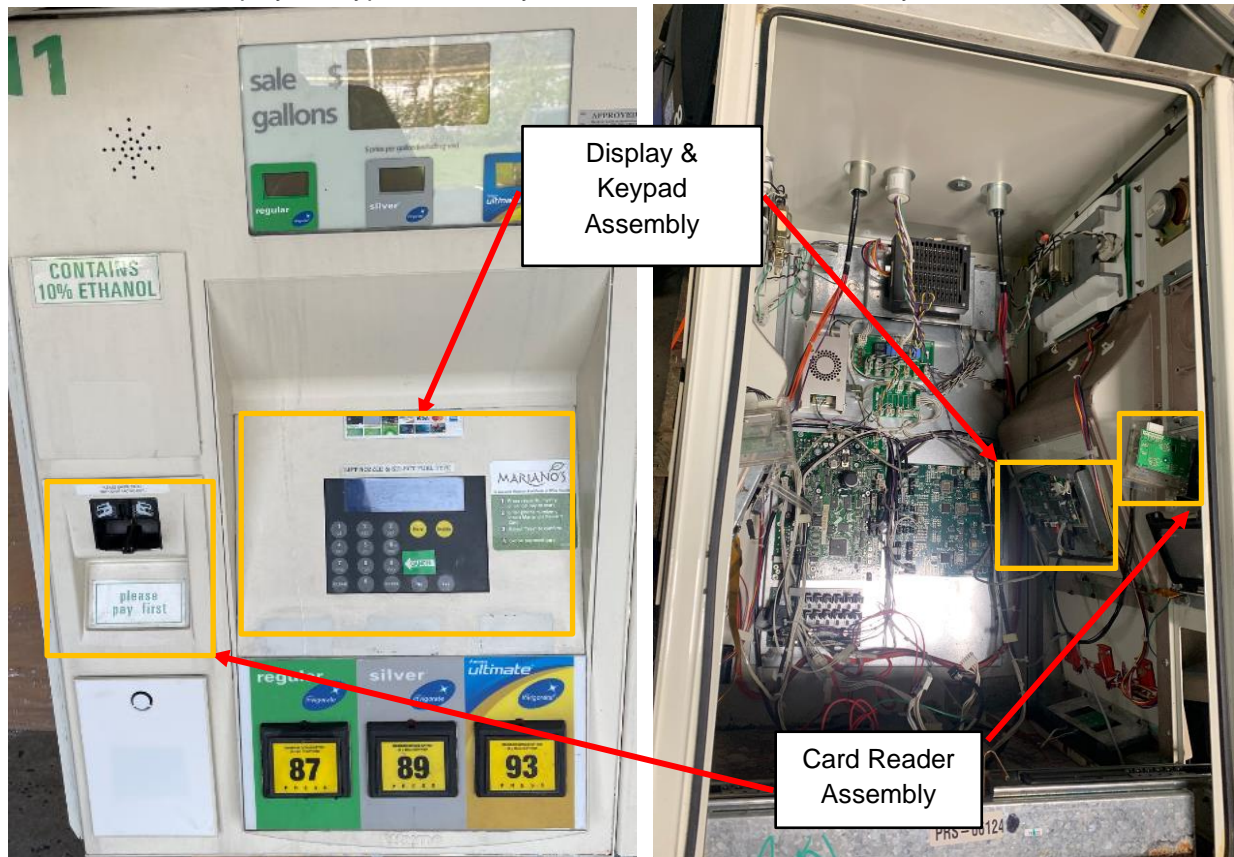


5. On the metal panel beneath where the plastic cover was, use a Wayne Security Key to unlock the four security locks and remove the metal panel and set it aside for later re-installation.

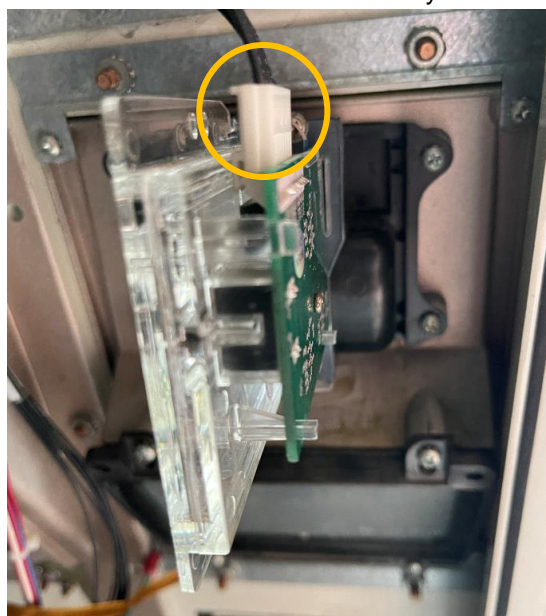


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6. Note the Display & Keypad Assembly and the Card Reader Assembly.

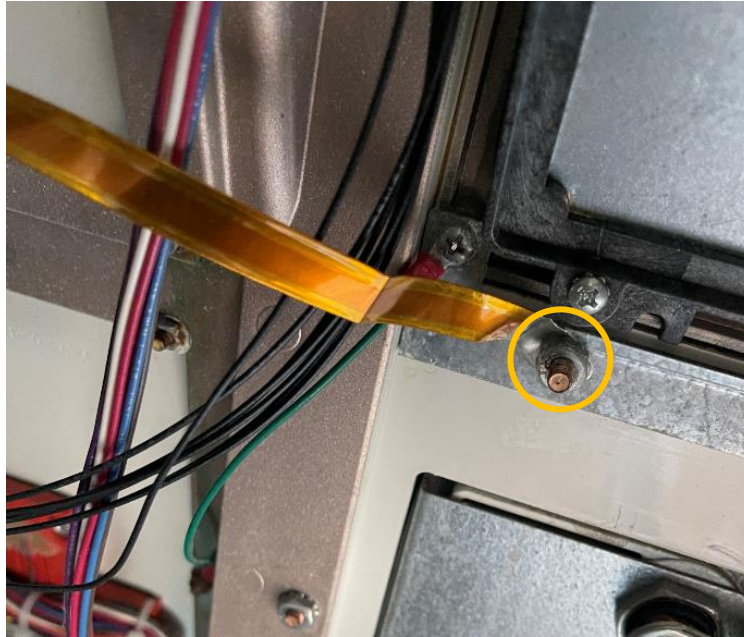


7. Unplug the card reader cable from the Card Reader Assembly.

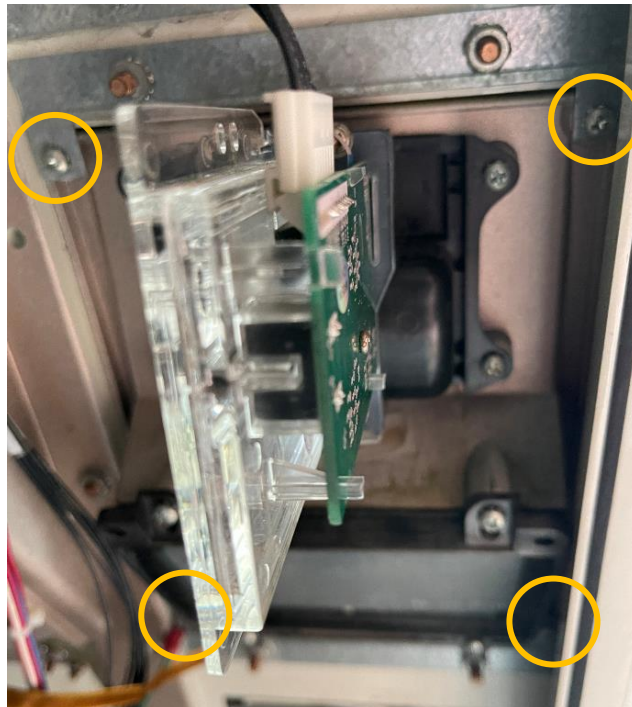


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8. Under the Card Reader Assembly, remove the ground strap with a 3/8" socket driver. After the ground strap is removed, reinstate the nut back in place.



9. Remove the four screws (with a #2 Philips screwdriver) that fasten the card reader panel assembly to the dispenser and remove the card reader panel assembly. The card reader panel assembly and the removed screws can be discarded. It will not be re-installed.

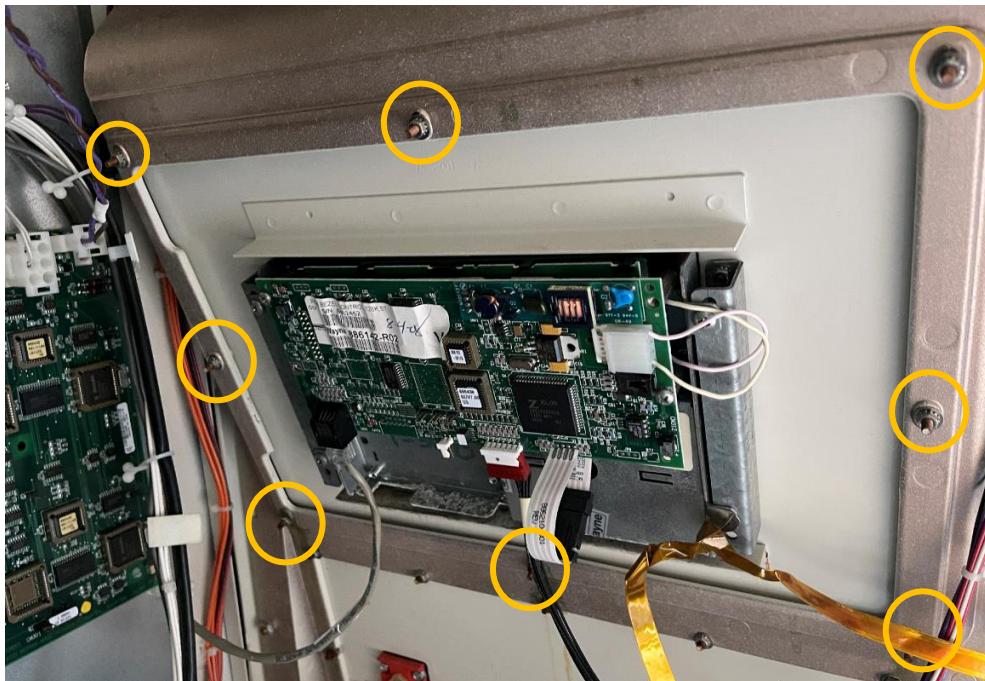


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10. Unplug the cable connected to the Display & Keypad Assembly and remove any ground straps by unscrewing the fastening screw with a #2 Philips screwdriver.

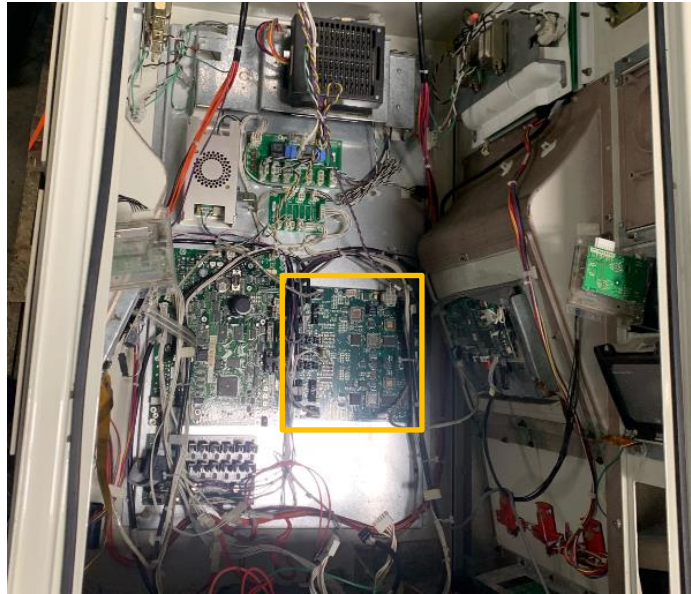


11. Remove the eight 9/32" nuts that fasten the Display & Keypad Assembly to the dispenser door and remove the Display & Keypad Assembly. The Display & Keypad Assembly and the eight nuts can be discarded.

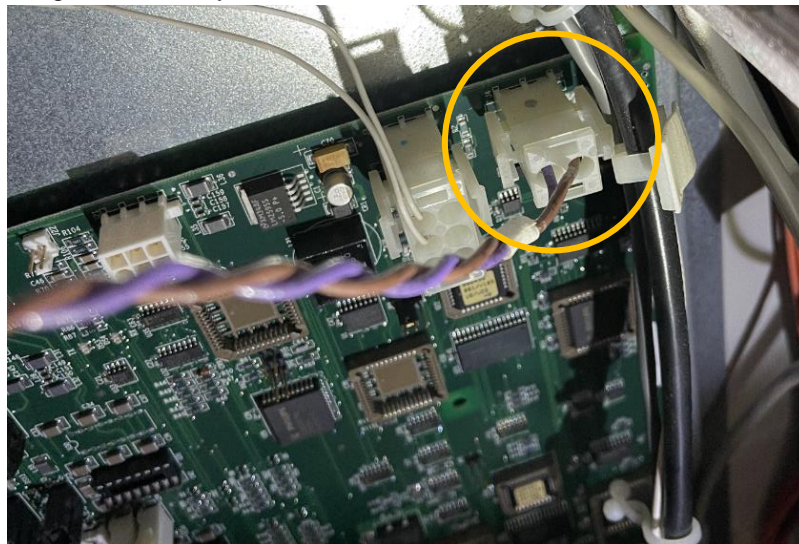


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12. The disassembly process is complete for this side. For a double-sided installation, repeat Steps 6-11 for the other side.
13. Identify the CRIND board in the dispenser that has the Pump communication cable (Purple & Brown wires) connected to it.



14. Unplug the purple/brown communication cable from the CRIND board, and mark for later reconnection during the assembly.



15. Discard any cables that were removed and loose during the disassembly. The dispenser is now ready for the Pre-Installation procedure to begin.

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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, 4.2.2 and 4.2.3.
- If you are installing Side B, perform procedure 4.2.1 and 4.2.2 and ensure you have installed Side A before continuing.

4.2.1 Replace the RFK Panel Gasket

The Wayne Harmony dispenser series utilizes a modularized replaceable panel system in the dispenser door to permit maintenance and upgrading of various electronic modules and displays. When these panels are replaced, the gaskets found between the panels and the dispenser door will need replacing to ensure the weatherproof integrity of the dispenser is maintained.

For this retrofit there are two gaskets that must be replaced. The RFK hatch panel gasket (MP0526) is applied to the front (outside) surface of the bezel opening, as indicated below. The side panel (UPC blank panel) gasket is applied on the rear surface of the panels directly.



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To remove the old gaskets:

Apply to below procedures to remove the existing display gasket (for the side panel, the gasket is applied on the rear surface of the new panel that is replacing the existing card reader assembly that was removed during the disassembly).

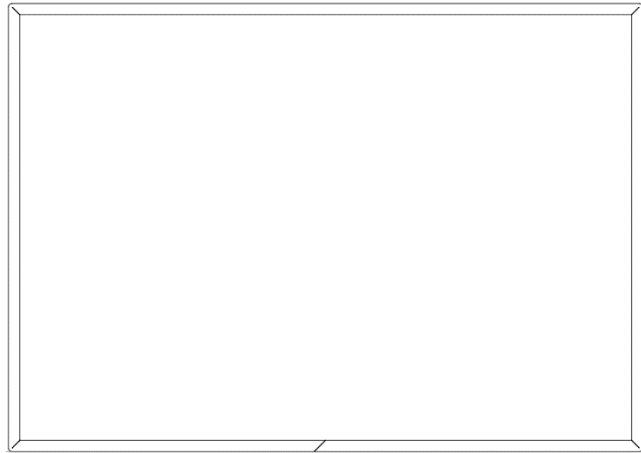
1. Starting at the join (or a torn end), carefully remove the old gasket material.
 - a. Pull the gasket **extremely slowly** and at an approximate **angle of 45 degrees**.
 - b. Removing the gasket slowly will give the best chance of removing the old adhesive and preventing the gasket from breaking into many small fragments.
2. Remove any remaining residue.
 - a. Apply sticky residue cleaner to the cleaning rag and wipe away all the adhesive residue.
 - b. Use the flat bladed scraper or the putty knife on stubborn areas, taking care not to gouge the plastic surface.

WARNING: Do not flood the area being cleaned with a direct spray of sticky residue cleaner as excess cleaner may damage adjacent gaskets.

3. Apply IPA cleaner solution to a new cleaning rag and thoroughly wipe down the area cleaned with the sticky residue cleaner.
4. Allow the plastic to dry completely.

To apply the new RFK Hatch Panel Gasket (MP0526):

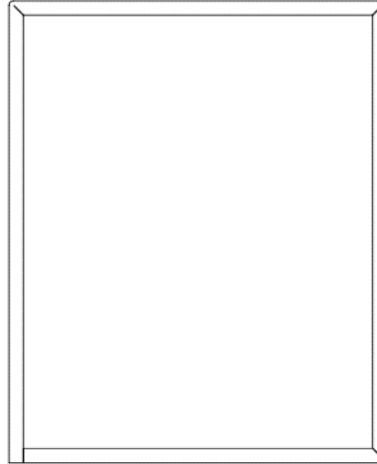
1. Start with the horizontal segment along the top edge. Peel off the backing paper on this segment only, align the gasket in the gasket channel and press into place. Take care not to stretch the gasket.
2. Peel off the backing paper on a vertical segment, align the gasket in the channel and press into place. The corner should be closed and the edges touching.
3. Repeat step 2 with the other vertical channel.
4. Before removing the backing paper, check that the two remaining segments meet successfully in the middle. Adjust alignment of the vertical sections if necessary.
5. Peel off the remaining backing paper on the last two segments and press into place. The corners should be closed and the edges touching. A small witness gap is permissible at the join at the middle bottom edge.



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To apply the new UPC blank panel (gasket part number MP0527) on to the rear surface of the MZ0103 (or MZ0239) panels:

1. Apply new gasket, starting with the horizontal segment along the top edge of the rear of the panel. Peel off the backing paper on this segment only, align the gasket in the gasket channel and press into place. Take care not to stretch the gasket.
2. Peel off the backing paper on the left vertical segment, align the gasket in the channel and press into place. The top corner should be closed and the edges touching.
3. Repeat step 2 with the other vertical channel.
4. Peel off the backing paper on the bottom horizontal segment, align the gasket in the channel and press into place. The bottom-right corner should be closed and the edges touching. The bottom-left corner should be just touching the vertical segment as shown. A small witness gap is permissible at this join.



Note: If you make a mistake with the gasket, it can be gently removed once. If you remove it more than once the adhesive will fail, and a replacement gasket will be needed.

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4.2.2 Apply the printer door decal.

Apply the cosmetic decal sticker (DL0423) over the printer door (located on lower side). Ensure it is applied upright (keyhole at the top)



4.2.3 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 **MUST** first be installed.

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 §4.3 Installation Procedure.

For Side A (i.e. the first side), select the PSU Plate Assembly from this Retro-Fit Kit package (EZ0704) 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 §4.3 Installation Procedure.

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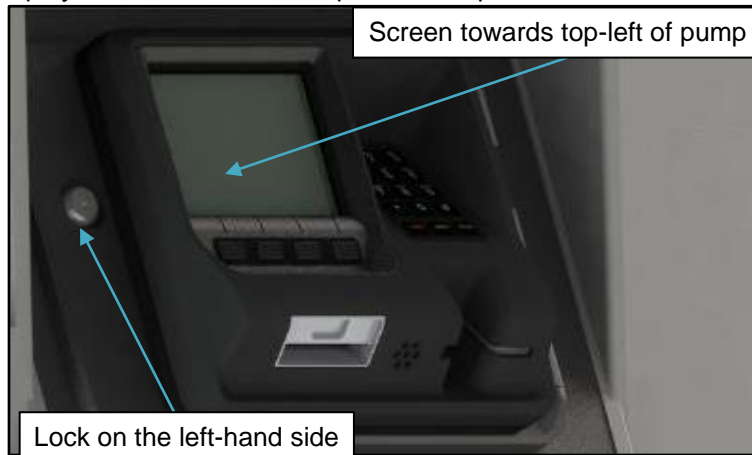
4.3 Installation Procedure

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.

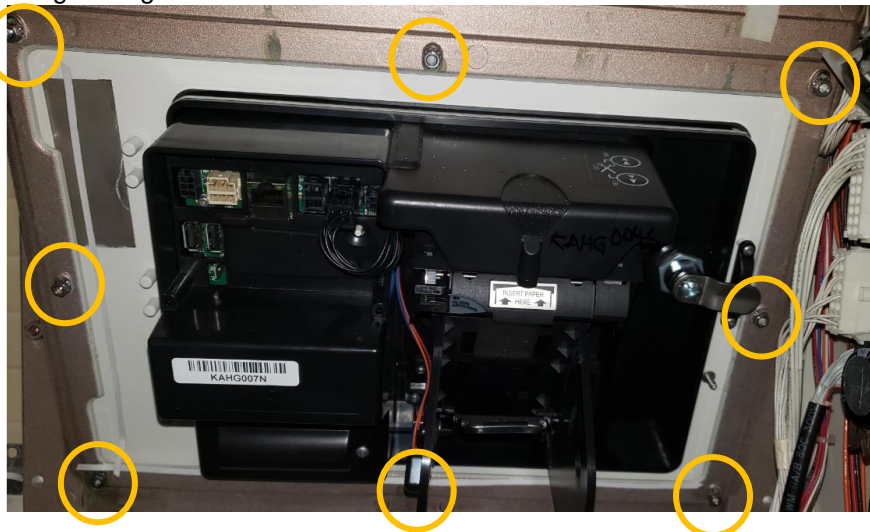
To avoid damaging the RFK panels in the following steps where screws are being placed into the brass bushes, it is very important to start each screw *by hand*, ensuring you use the existing thread.

DO NOT USE any type of powered tool to start the screws.

1. Take the RP00089-XX RFK Hatch Panel with the G6-300 pre-mounted and place it in the largest opening in the pump door from the outside. Ensure the panel is the correct way up, with the G6-300 OPT's display screen towards the top-left of the panel.



2. Obtain the eight MN0078 nuts from the kit. Carefully start the eight nuts by hand on the studs at the back of the RP00089-XX RFK Hatch Panel with the G6-300 pre-mounted. Use 9/32" socket driver to finish tightening.



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3. Carefully place the MZ0103 UPC blank panel over the mid side opening (looking from the outside) of the pump door. Ensure correct orientation as per the image below (the keyhole shaped innermost outline is upright). Carefully start four MS0148 M3x10 SEMS screws by hand into the bushes on the inside of the pump door.

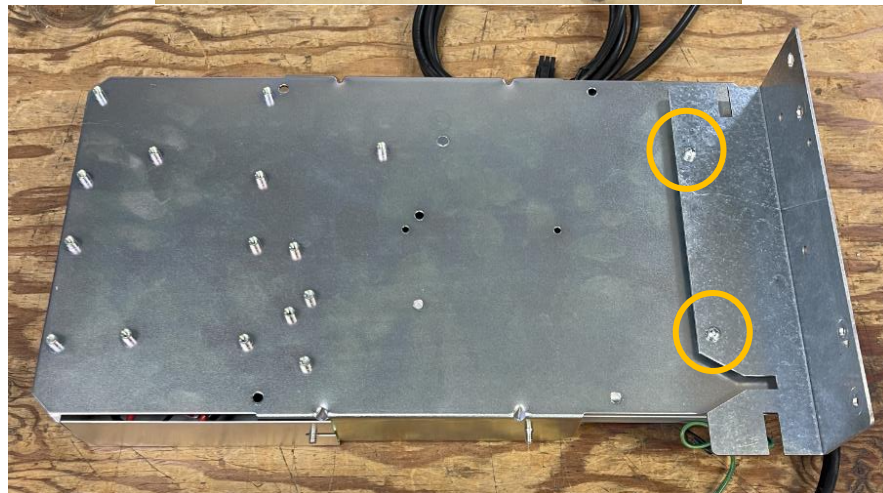


4. Tighten all the screws with a Philips #1 screwdriver.
5. Install the EZ0704 PSU Plate assembly. For Side A this is the PSU Plate Assembly that has just had the InvencoLink converter installed.



- a. Fit the PSU mounting adaptor bracket (MP1181) on to the EZ0704 PSU plate assembly with the two MS0147 screws.

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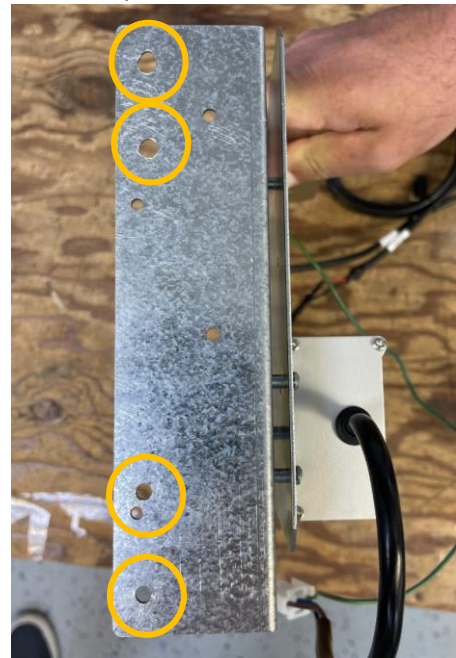


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- b. Identify the two mounting stud positions on the ceiling of the dispenser, near by the metal panel that was removed in step 5 of the disassembly procedure. Temporarily undo the two nuts with a 3/8" socket driver.

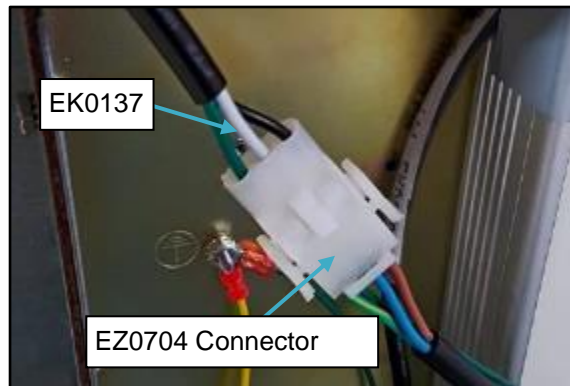


- c. Fit the EZ0704 PSU plate assembly over the studs and fit the two nuts that were temporarily removed in the previous step. There are mounting holes on both sides of the adaptor bracket so that it can be mounted on both sides of the dispenser.
NOTE: if these nuts were missing in the dispenser, use the provided MN0027 nuts.

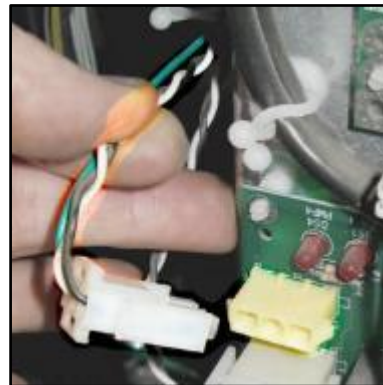
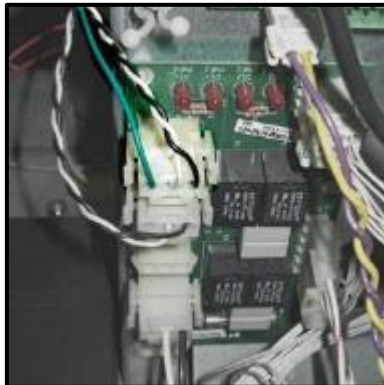


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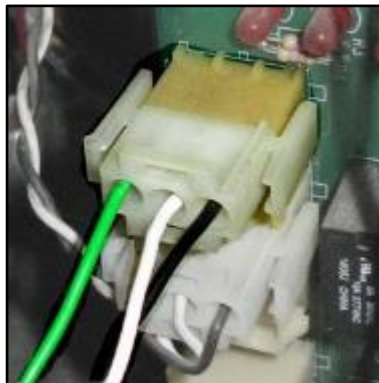
6. The EK0137 AC Mains cable has double-connectors at one end and a single connector at the other end. Plug the single-connector end into the mains connection on the EZ0704 PSU Plate assembly.



7. From Side A, unplug the mains connector from the relay board.
- If doing Side A, that plug belongs to the pump.
- If doing Side B, that plug belongs to Side A.
Regardless, unplug it.



8. Connect the Plug on the double-connector end of the EK0137 AC Mains cable into the Socket on the pump's relay board:



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9. Connect the Plug removed in Step 7 into the Socket on the double-connector end of the EK0137 AC Mains cable:



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.

10. For Side A only:

- a. Plug in the GREEN connector of the EK0127 Cable into the "RS485" socket on the InvencoLink converter.



- b. Locate the purple/brown pump data cable that was marked during disassembly and plug in the white connector of EK0127.

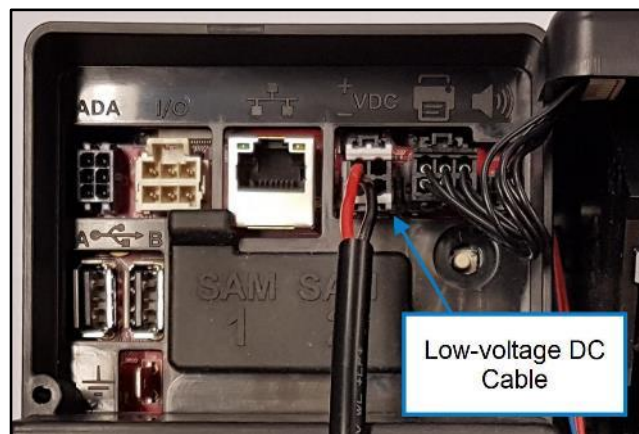


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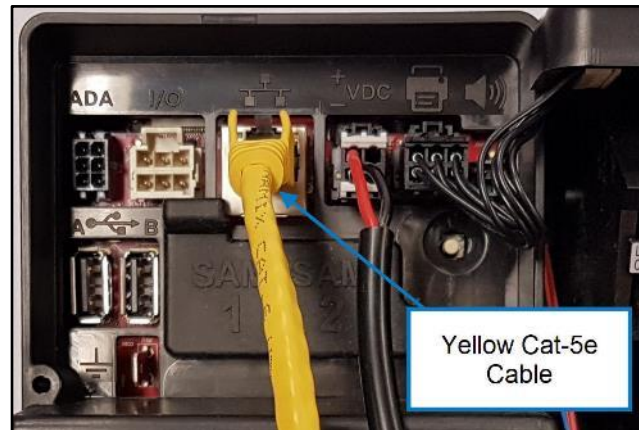
11. Plug the EK0131 YELLOW patch cable into the LAN-1 socket on the InvencoLink converter. If doing Side Two, then plug the cable into the LAN-2 socket.



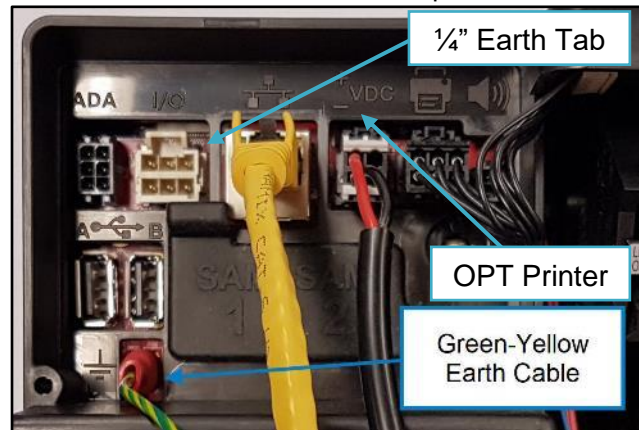
12. Gather the DC Power and green/yellow earth cables from the EZ0704 PSU Plate assembly and EK0131 Yellow patch cables, and route them to the G6-300 OPT, cable tying them as required.
13. Take the three cable ends routed in step 12 and connect them to the G6-300 OPT:
- Plug the Black low-voltage DC cable from the EZ0704 PSU plate assembly into the OPT:



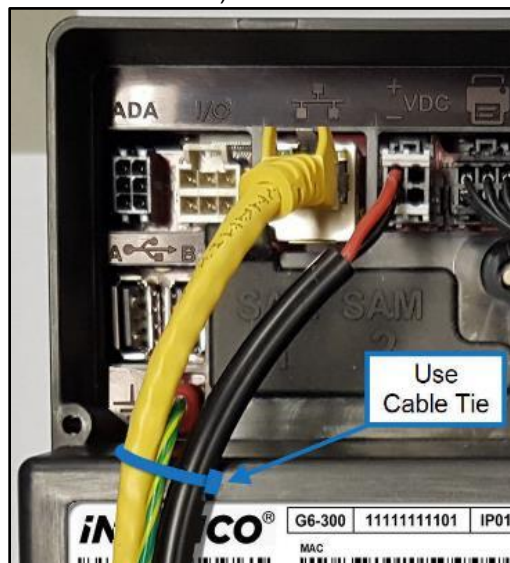
- Connect the EK0131 Yellow cables into the correct sockets on the OPT. The port numbers on the InvencoLink for the cable (e.g. LAN-1) must match the side you're working on (e.g. Side A):

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- c. Clip the green earth cable from the EZ0704 PSU plate onto the 1/4" tab on the G6-300 OPT:



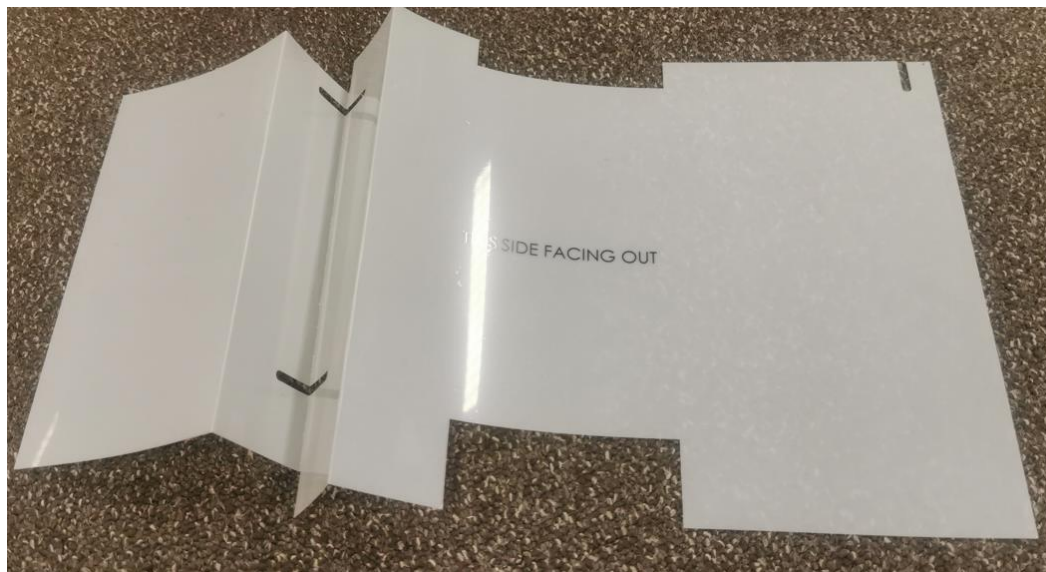
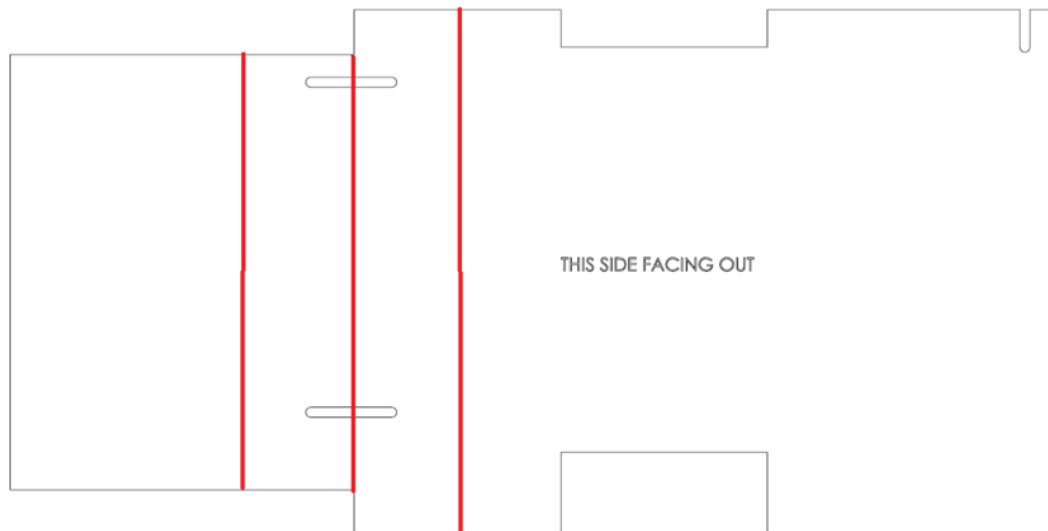
14. Gather the YELLOW, BLACK and GREEN/YELLOW cables from the above steps into a cable-tie on the upper left rear (as viewed from its rear) of the G6-300 OPT RFK Door.



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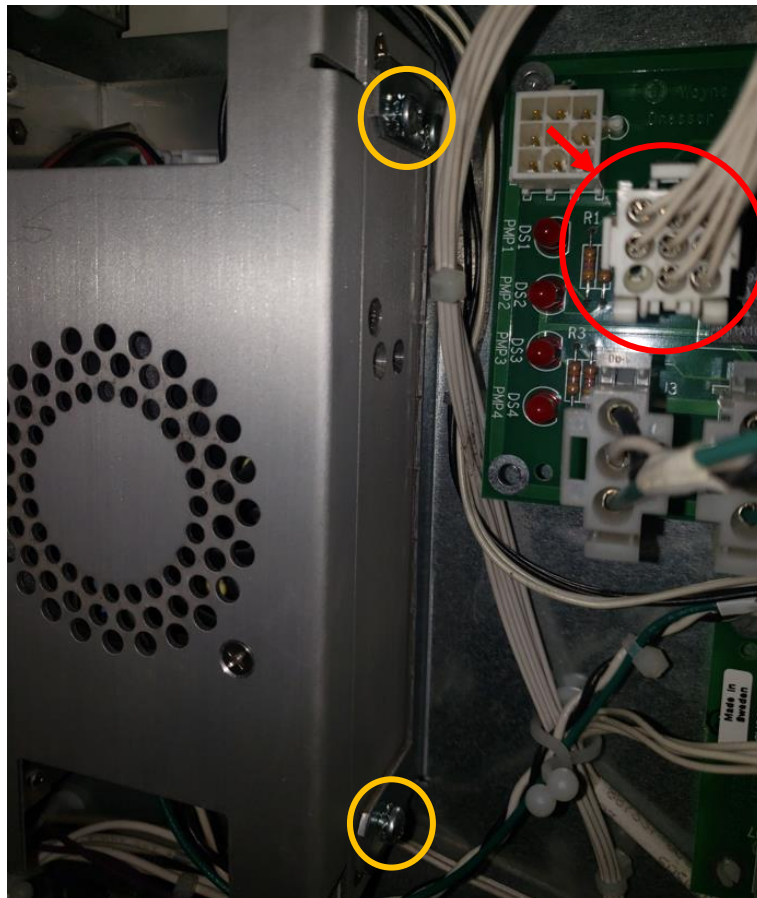
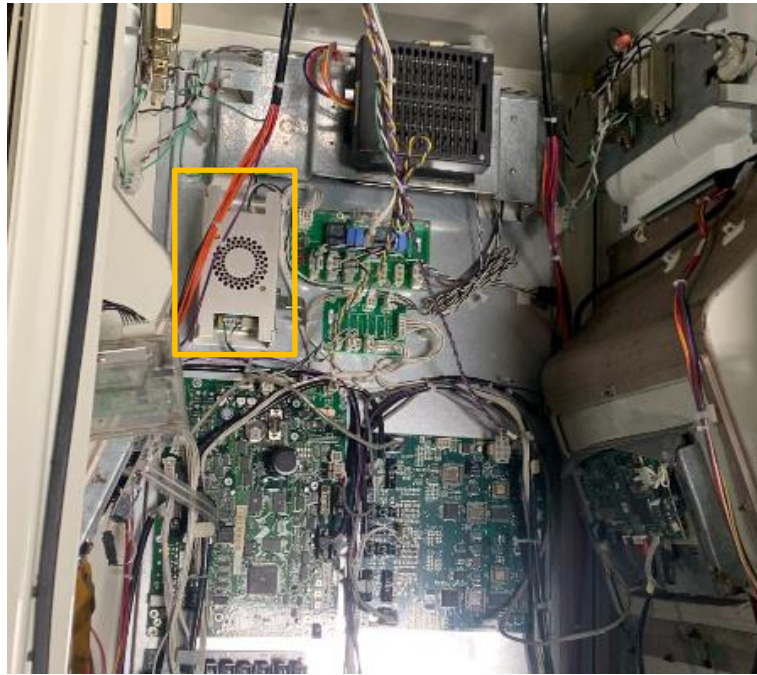
15. Install the insulation cover (MP1203) over the AC relay board and (same board as from step 7) the power supply next to it.

- a) Obtain the MP1203 insulation cover from the kit and fold along the indicated lines to the shape as shown below.



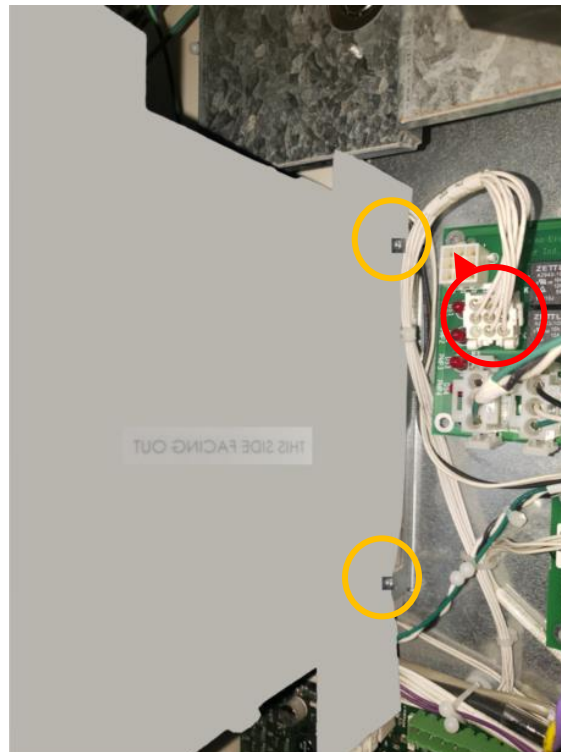
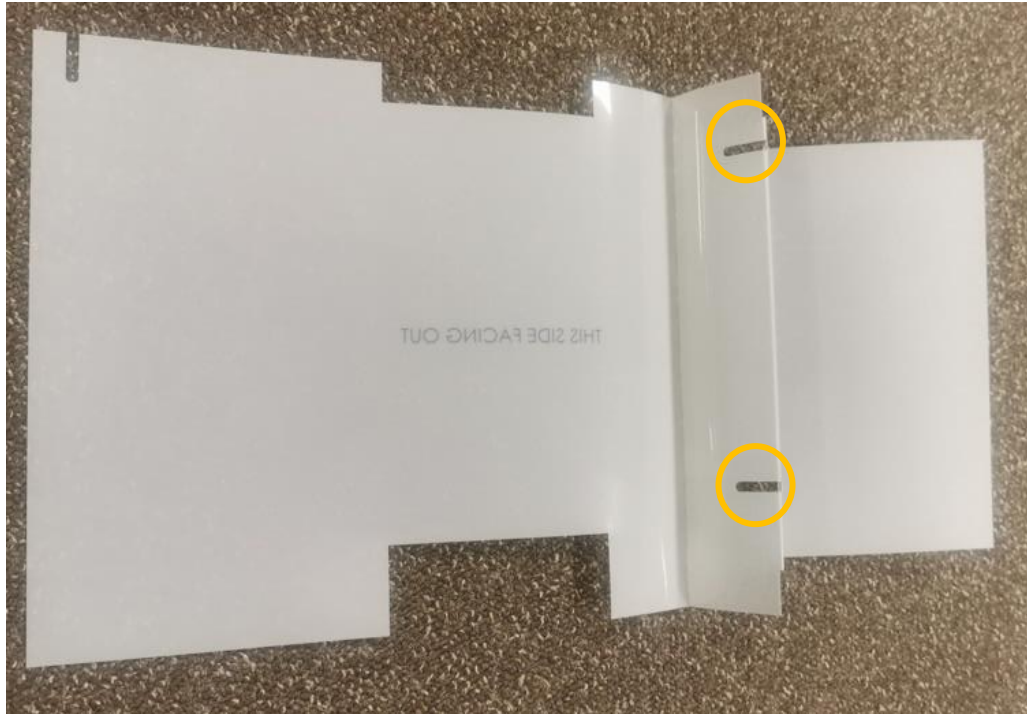
- b) Identify the power supply to the left of the relay board and loosen the two screws on the right-hand side of the power supply (the white connector indicated by the red circle needs to be temporarily disconnected first), enough to fit the insulation cover slots under the screws.

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- c) Fit the folded and slotted part of the insulation cover over the power supply by sliding the cut slots under the loosened screw heads. Once fitted, re-tighten the screws, and re-connect the white connector that was temporarily disconnected in the previous step.

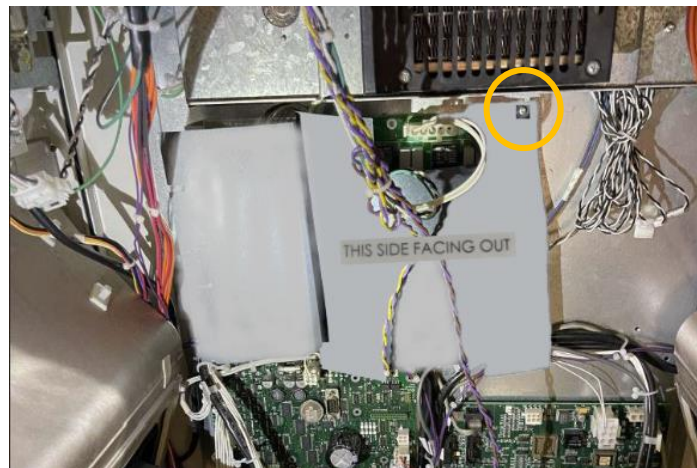
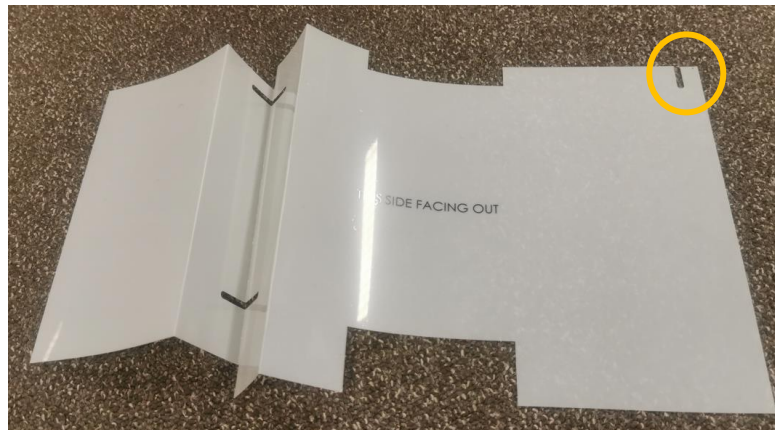


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Identify the top right hand corner screw on the relay board and slightly loosen the screw, enough to fit the insulation cover slot under the screw.



- d) Fit the cut slot on the insulation cover under the screw that was just loosened (the insulation cover part may need to be moved through/past some of the cables).




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16. For a double-sided installation (i.e., for Side B), please repeat Steps 1-9 and 11-14.
17. Ensure that all cables are tidy and cannot become snagged or pinched when the cabinet side metal panel is opened and closed.
18. Reinstall the metal panel that was removed during step 5 of the disassembly procedure. Use a Wayne Security Key to lock the four security locks that were unlocked.



19. Reinstall the outer plastic cover that was removed in step 4 of the disassembly procedure back on to the metal door with 10/32" size socket driver.



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20. Reinstall the advertising board that was removed in step 3 of the disassembly procedure by sliding it down the side grooves.



21. The installation procedure is now completed.



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

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5 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):

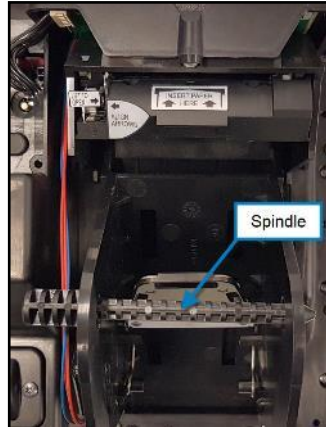




If the terminal is successful in connecting to the LAN it will display the following screen and the rest of the start-up sequence will continue:

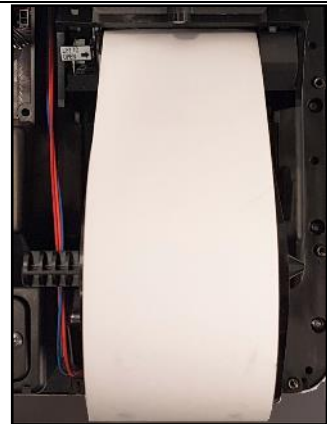


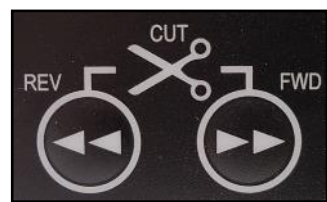


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The following steps describe the paper loading procedure.

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>	