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Retrofit G7 Printer Wayne Ovation (US & Canada) Installation Guide		

Retrofit G7 Printer Wayne Ovation (US & Canada) Installation Guide

Kit Part Number:

RF00038-XX: Black

RF00058-XX: Painted Color

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Release History

Version	Prepared by	Date	Change description
0	Michael Doh	Octobre 2019	Initial version to be approved by UL (Based on DCV-00215 R3)
1	Michael Doh	19-Dec-19	Updated kit part number and added G7 15 inch kits
2	Michael Doh	26-Mar-20	Updated kit part number
3	Michael Doh	27-Mar-20	Changed printer power cable
4	Michael Doh	16-Jul-20	Added new Ovation 2 kits and alternative colored door panels
5	Michael Doh	04-Aug-20	Separated kit for painted colored printer door variant
6	Michael Doh	08-Aug-20	Added references to new painted colored G7 OPT kits
7	Michael Doh	11-Aug-20	Roll back the colored kit changes
8	Michael Doh	01-Oct-20	Applied the painted colored kit related changes
9	Michael Doh	02-Oct-20	Corrected related kit part numbers
10	Michael Doh	19-Nov-20	Added new Colored OPT kit reference

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1 Introduction

The documentation provides some basic guidelines for installing the G7 Printer into a Wayne Ovation dispenser.

- G7 Ovation Printer, Black:
Kit part number: RF00038-XX
- G7 Ovation Printer, Painted Color:
Kit part number: RF00058-XX

This Retro-Fit Kit:

- can only be installed in combination with any of these UL Listed by Report Retro Fit Kits:
 - RF00021-XX, RF00028-XX, RF00048-XX or RF00080-XX (For Ovation 1)
 - RF00022-XX, RF00062-XX or RF00059-XX (For Ovation 2).
- can be installed into either Side A or Side B the dispenser.
- is for a single Side. For a double-sided installation, two of these Kits are required.

1.1 Tools Required

The following tools are required to mount the G7 Printer:

- Screwdriver, Philips #1
- Screwdriver, Philips #2
- Side cutters
- Socket or Nut Driver, 1/4"
- Socket or Ring Spanner, 11/32"
- Spanner for M6 nut (10mm AF)
- Ruler, 6"
- Small, stiff-bristle brush.
e.g. Toothbrush
- Cable (zip) ties
- Household sticky residue remover
containing limonene.
e.g. Goo Gone®
- 50% IPA (Isopropyl Alcohol)
solution
- Soft cleaning cloths



WARNING

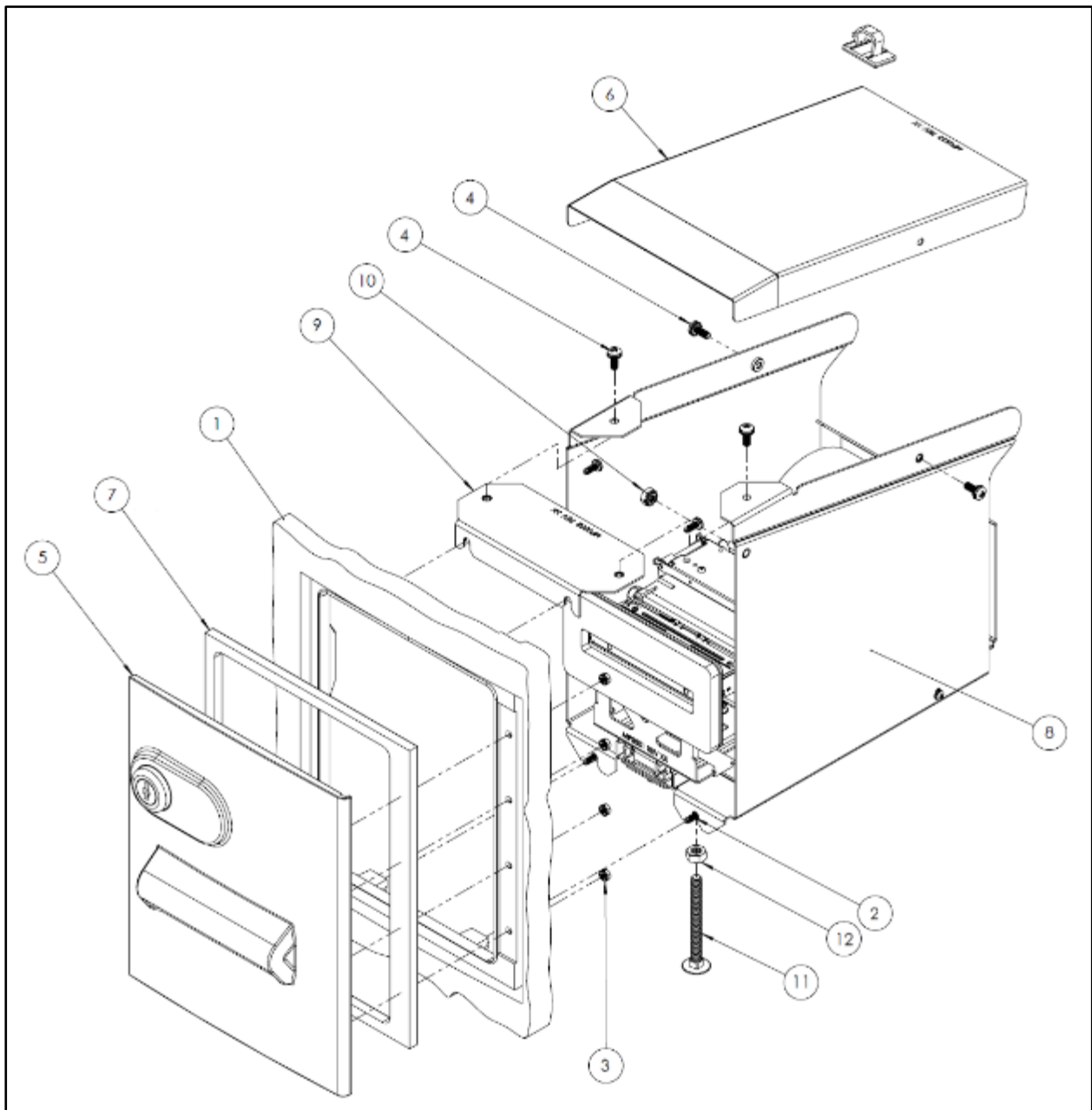
Do NOT use power tools if working on a fuel station forecourt.
Any spark could cause an explosion.


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1.2 Installation Kit Contents

Unpack the Retro-Fit Kit and check that all the parts listed below are present. Note: Cables and self-adhesive cable-clips are not shown below.


The following parts and sub-assemblies are required to complete an installation of the Invenco Ovation printer Module into a Wayne Ovation dispenser:



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G7 Ovation Printer, Black (RF00038-XX):

1. Section of Ovation Dispenser Door, shown for illustrative purposes only.
2. MS0121: SCREW, PAN HEAD, 0.138" X 32TPI X 0.375". Quantity = 4. This screw is contained in Fastener Kit FK0011.
3. MN0039: NUT, M3, K-LOCK, SS304, ZINC. Quantity = 4. This screw is contained in Fastener Kit FK0011.
4. MS0160: SCREW, SEMS, M4X10, PAN HEAD, PHILIPS #2, SS410, ZINC. Quantity = 4. This screw is contained in Fastener Kit FK0011.
5. MZ0082: ASSY, PRINTER DOOR, PRINTER MODULE ASSY, OVATION, G7. Quantity = 1
6. MP0533: LID, PRINTER HOUSING, OVATION, G7. Quantity = 1
7. MP0528: GASKET, PRINTER DOOR, OVATION RETROFIT KIT, G7. Quantity = 1
8. EZ0247: ASSY, CHASSIS & PRINTER (NP-3511), OVATION, G7. Quantity = 1
9. MP0502: BRACKET, L-SHAPED, TOP, PRINTER MODULE, OVATION, G7. Quantity = 1
10. MN0031: NUT, SEMS, #8-32, 11/32" HEX, EXTERNAL LOCK WASHER. Quantity = 1. This nut is contained in Fastener Kit FK0011.
11. MS0174: SCREW, COACH BOLT, M6X60, SS304, ZINC. Quantity = 1. This screw is contained in Fastener Kit FK0011.
12. MN0040: NUT, M6, SS304, ZINC. Quantity = 1. This nut is contained in Fastener Kit FK0011.
13. MF0046: FASTENER, CABLE CLIP, SELF ADHESIVE 12X11mm. Quantity = 2 (Not illustrated).
These self-adhesive clips are contained in Fastener Kit FK0011.
14. EK0157: CABLE, USB2.0, TYPE A TO TYPE B, 2.5m. Quantity = 1 (Not illustrated)
15. EK0117: CABLE, POWER, LOW VOLTAGE DC, TYPE B, 2.5m. Quantity = 1 (Not illustrated)
16. EK0155: EARTH CABLE 18AWG, 0.5m. Quantity = 1 (not illustrated).

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G7 Ovation Printer, Painted Colored Panels (RF00058-XX):

1. Section of Ovation Dispenser Door, shown for illustrative purposes only.
2. MS0121: SCREW, PAN HEAD, 0.138" X 32TPI X 0.375". Quantity = 4. This screw is contained in Fastener Kit FK0011.
3. MN0039: NUT, M3, K-LOCK, SS304, ZINC. Quantity = 4. This screw is contained in Fastener Kit FK0011.
4. MS0160: SCREW, SEMS, M4X10, PAN HEAD, PHILIPS #2, SS410, ZINC. Quantity = 4. This screw is contained in Fastener Kit FK0011.
5. MZ0250-XX: ASSY, PRINTER DOOR, PRINTER MODULE ASSY, OVATION, G7, Painted Color. Quantity = 1
6. MP0533: LID, PRINTER HOUSING, OVATION, G7. Quantity = 1
7. MP0528: GASKET, PRINTER DOOR, OVATION RETROFIT KIT, G7. Quantity = 1
8. EZ0247: ASSY, CHASSIS & PRINTER (NP-3511), OVATION, G7. Quantity = 1
9. MP0502: BRACKET, L-SHAPED, TOP, PRINTER MODULE, OVATION, G7. Quantity = 1
10. MN0031: NUT, SEMS, #8-32, 11/32" HEX, EXTERNAL LOCK WASHER. Quantity = 1. This nut is contained in Fastener Kit FK0011.
11. MS0174: SCREW, COACH BOLT, M6X60, SS304, ZINC. Quantity = 1. This screw is contained in Fastener Kit FK0011.
12. MN0040: NUT, M6, SS304, ZINC. Quantity = 1. This nut is contained in Fastener Kit FK0011.
13. MF0046: FASTENER, CABLE CLIP, SELF ADHESIVE 12X11mm. Quantity = 2 (Not illustrated).
These self-adhesive clips are contained in Fastener Kit FK0011.
14. EK0157: CABLE, USB2.0, TYPE A TO TYPE B, 2.5m. Quantity = 1 (Not illustrated)
15. EK0117: CABLE, POWER, LOW VOLTAGE DC, TYPE B, 2.5m. Quantity = 1 (Not illustrated)
16. EK0155: EARTH CABLE 18AWG, 0.5m. Quantity = 1 (not illustrated).

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2 Safety & Compliance Information

This section introduces the hazards and safety precautions associated with installing, inspecting, maintaining or servicing the G7 Printer. 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.

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 fuelling 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 G7 Printer.


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

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


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).

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- 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 G7 Modules have a UL File Reference of MH61528 and carry labels similar to this:



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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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.

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.
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 Disassembly

If you are installing this printer Retro-Fit Kit in combination with Retro-Fit Kit part number RF00022-XX, RF00062-XX or RF00059-XX there is no disassembly required; please proceed directly to “Section 6 Installation”.

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

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.
2. Identify the A Side of the dispenser. The side that the serial plate is mounted on, typically located on the upper left or right hand side of the dispenser, is Side-A. However, if no serial plate is present, Side-A can be identified by opening up the Dispenser Main Door and locating the IGEM board on the Electronics Mounting Bracket inside of the Electronics Cavity. (Fig 1.1a,b)

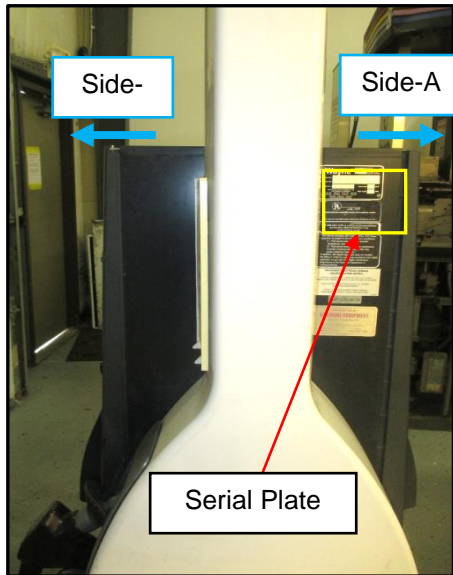
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Fig 1.1a – Identifying Side-A using Serial plate

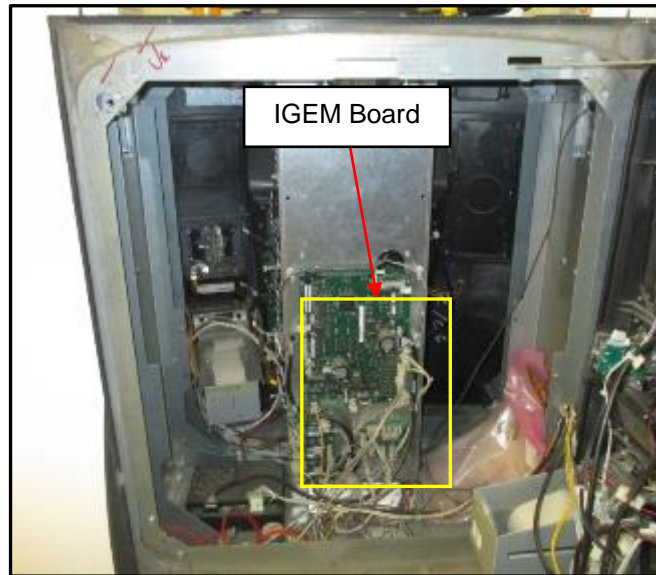
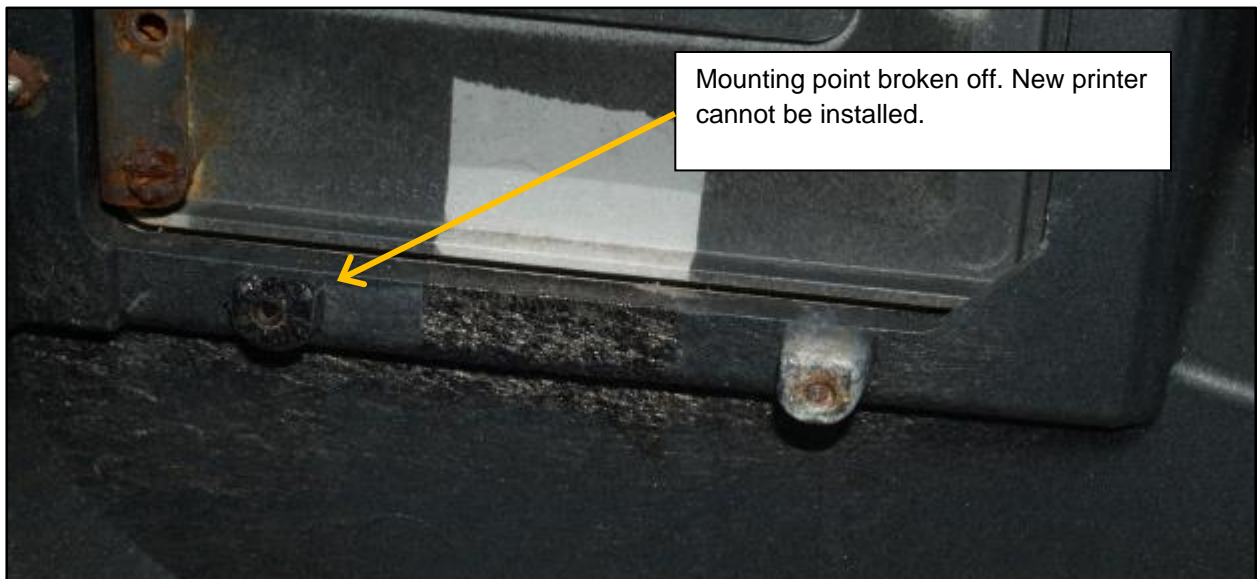
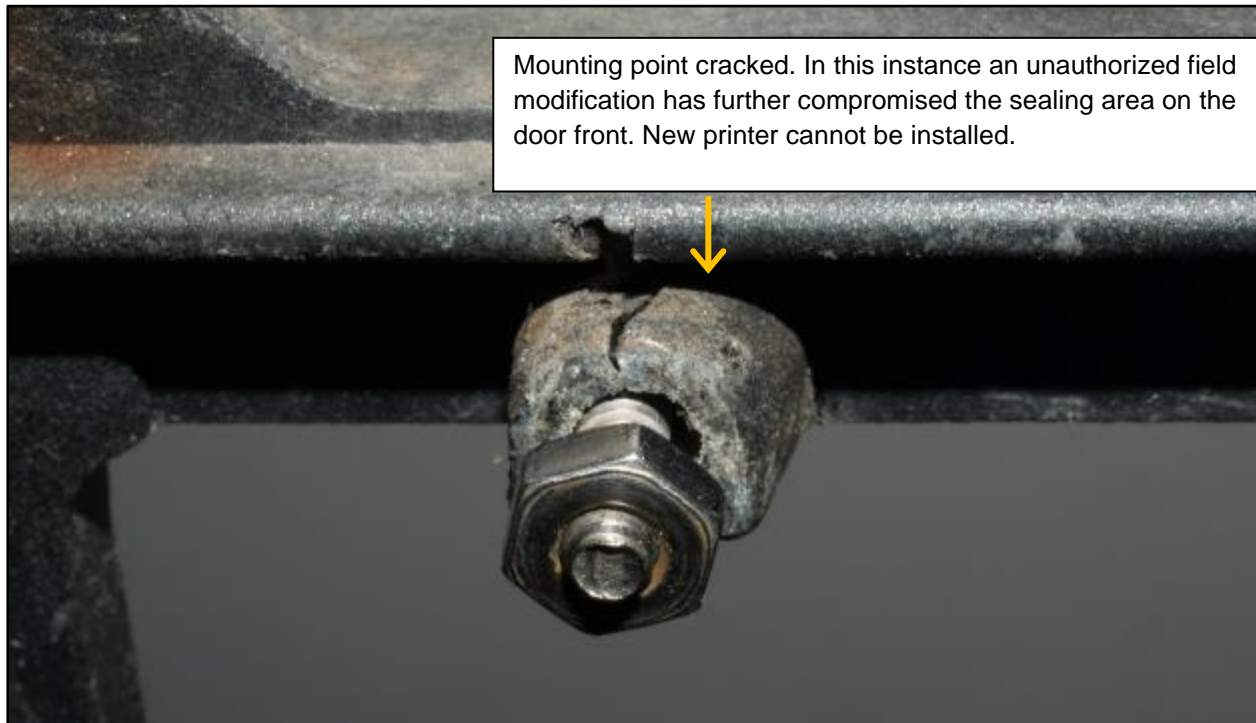


Fig 1.1b – Identifying Side-B using IGEM Board

3. Use the Wayne “1001” Printer Access Door key to open the Printer Access Door. Inspect the printer-mounting bosses for cracking and any other signs of damage. If any of the bosses are damaged or cracked, stop this installation and contact technical support for advice.



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4. Use a Wayne Security Key to unscrew the two security bolts located on the left-hand side of the dispenser's door face. (Fig 1)



Fig 1 – location of security bolts

5. Open the door fully until it locks into place. (Fig 2)

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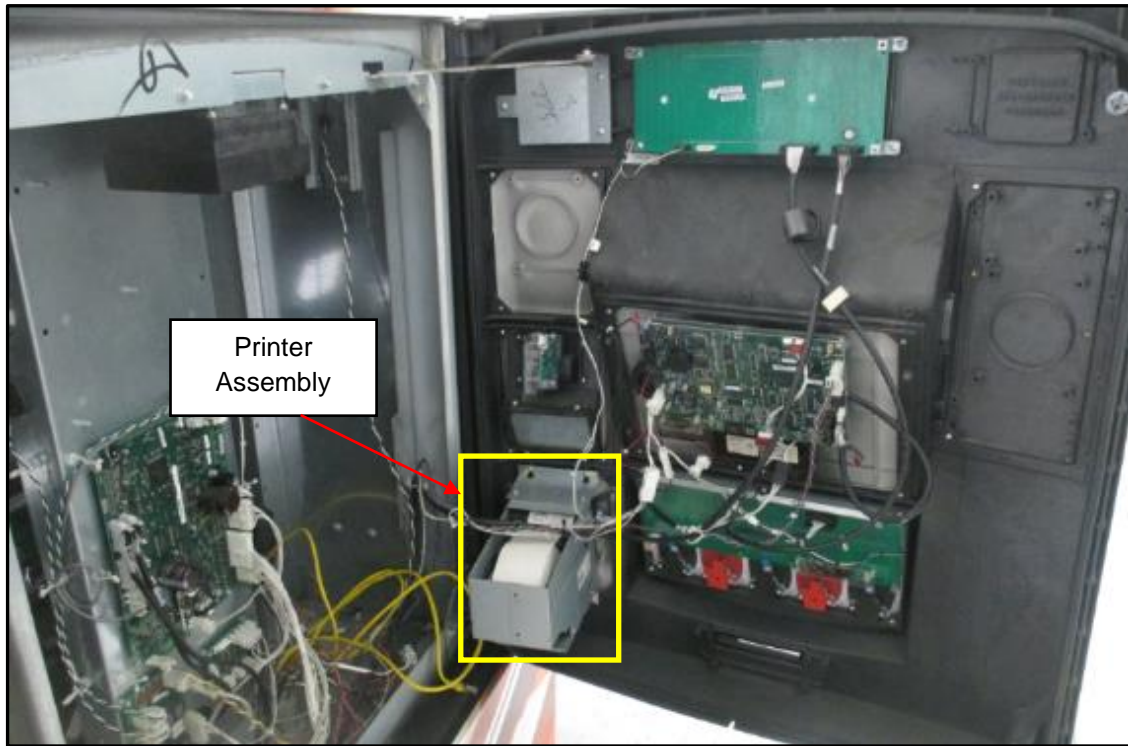


Fig 2 – Door in its fully open and locked position

- Remove the Printer Assembly. There are two variants of the Printer Assembly – please refer below for the variant you have:

Citizen, DW-10 or DW-12



Front

Rear

Axiom "Clamshell", R01 or R02



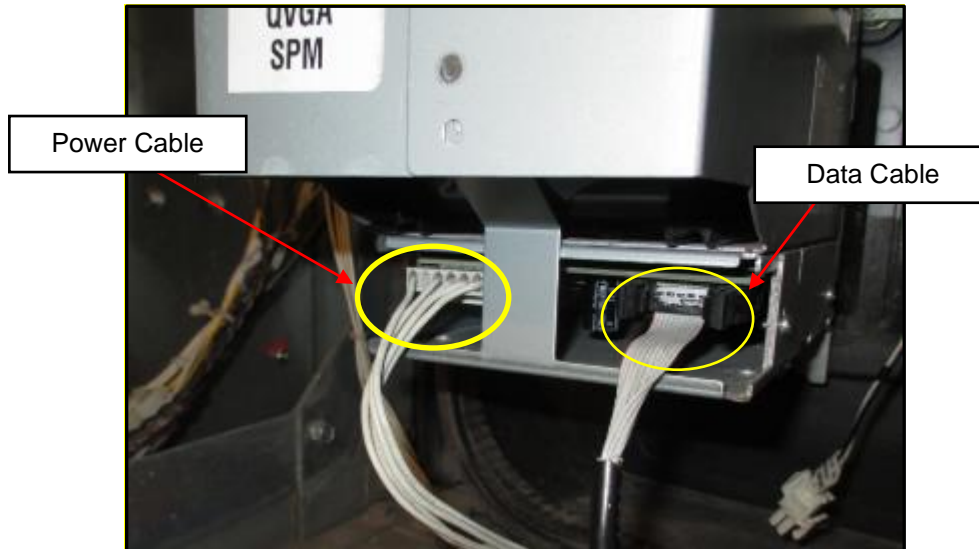
Front

Rear

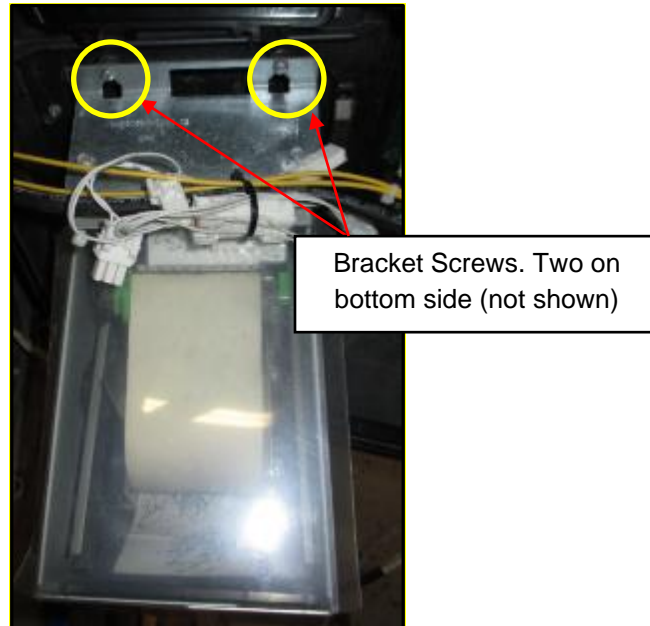
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If you have the DW-10 or DW-12 Printer Assembly:

- 1) Unplug the Printer's Power Cable and Data Cable located on the backside of the bottom of the Printer Assembly.



- 2) Loosen the four Philips head screws (two on top and two on bottom) that are fastening the Printer Bracket to the Dispenser's Main Door.

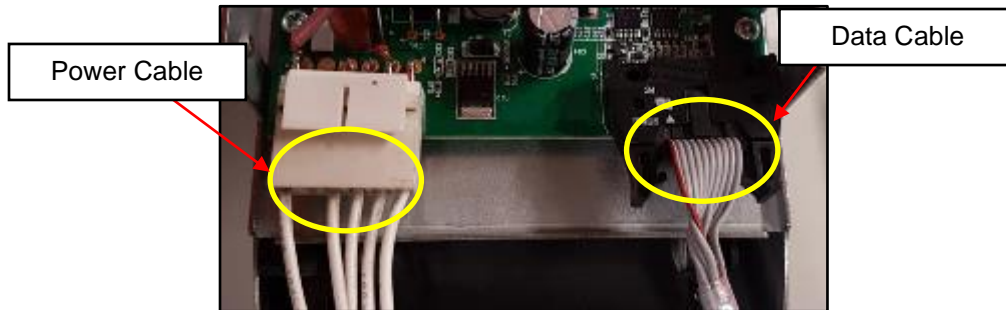


- 3) Lift the Printer Assembly up and off the Dispenser Door. The Printer Assembly and bracket can be discarded; they will not be re-installed.
- 4) Remove the four screws loosened in step 2 and discard them.

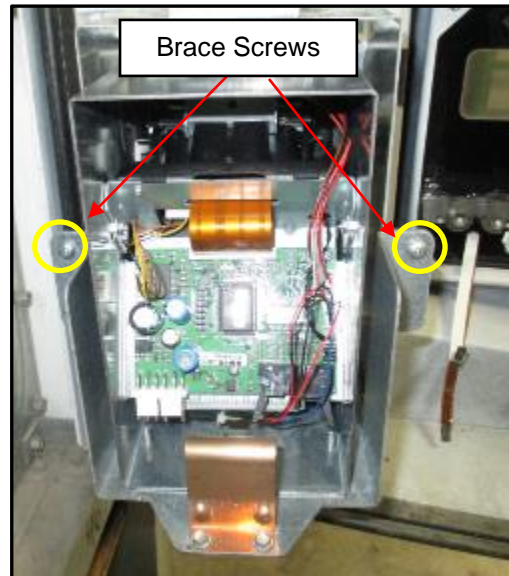
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If you have the R01 or R02 “Clamshell” Printer Assembly:

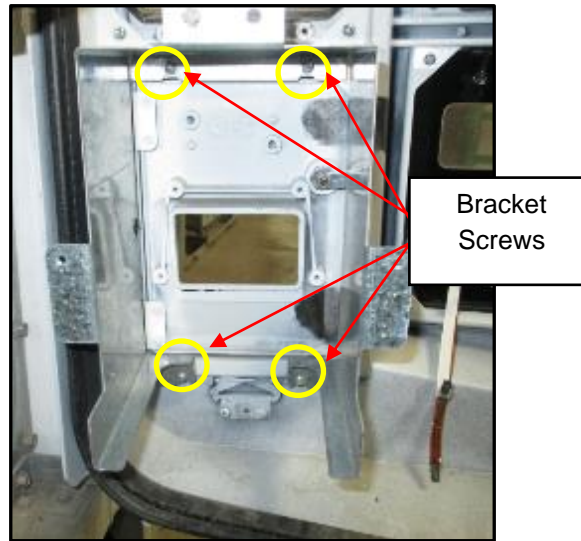
- 1) Unplug the Printer's Power Cable and Data Cable located on the backside of the Printer Assembly.



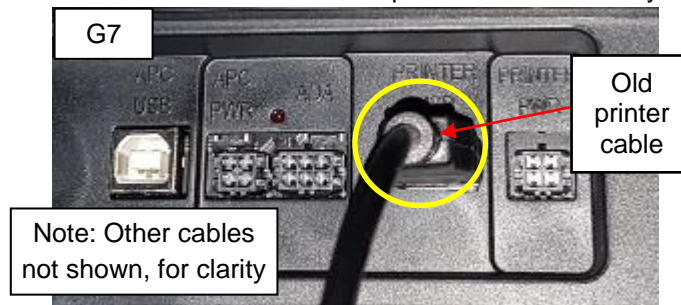
- 2) Remove the two Philips head screws fastening the Bracket Brace to the Printer Bracket. The Printer is attached to the Brace. Remove the Brace and Printer together. The Brace and Printer can be discarded; they will not be re-installed.



- 3) Loosen the four Philips head screws (two on top and two on bottom) that are fastening the Printer Bracket to the Dispenser's Main Door, then lift to remove the Printer Bracket. The Printer Bracket can be discarded; it will not be re-installed.

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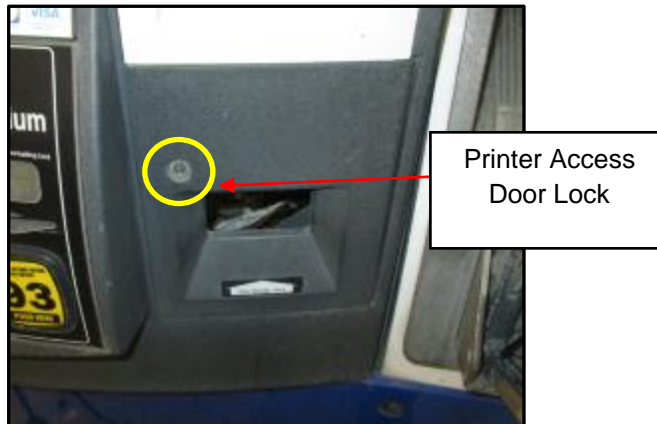
- 4) Remove the four screws loosened in step 3 and discard them.
7. Discard the printer's Data Cable – it will not be re-used:
- 1) If you are also installing a G7 system, the other end of the cable will already be unplugged.
 - 2) If you are installing only the printer, unplug the other end of the cable from the Display RFK "Printer USB" socket (Note: For the G7 15 inch, the cable could be plugged in any of the four available USB slots. Trace the printer cable to identify the correct socket):



8. If you wish, trace the printer's Power Cable to its source, unplug that end and then discard the cable – it will not be re-used.

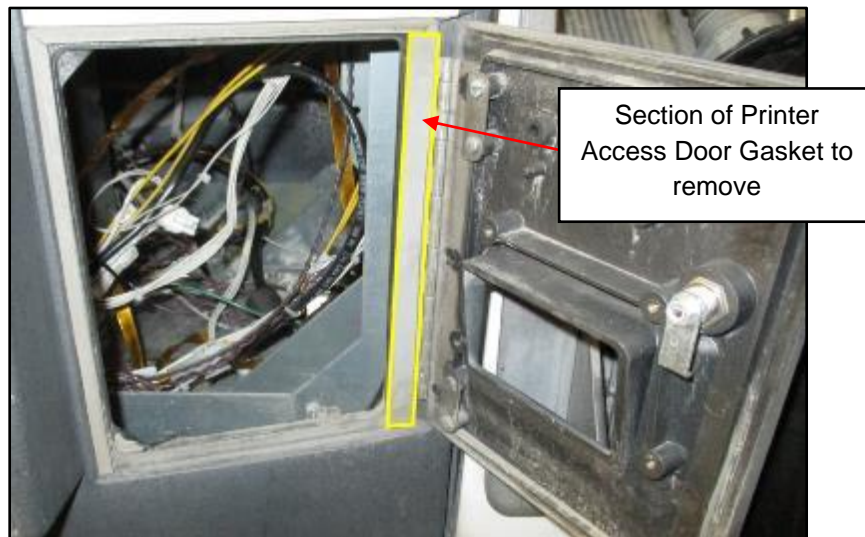
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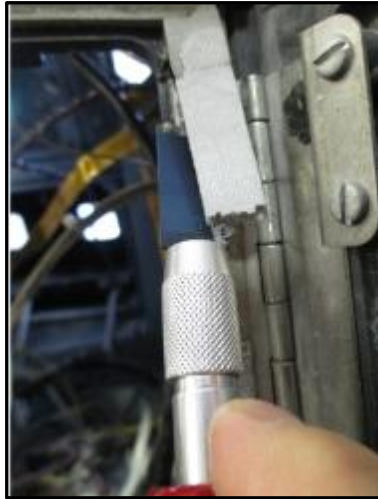
9. At this point, re-examine the screw bosses for signs of damage and/or cracking. If any of the bosses are damaged, stop the installation and contact technical support.
10. Using a Wayne "1001" Printer Access Door key, unlock and open the Printer Access Door.



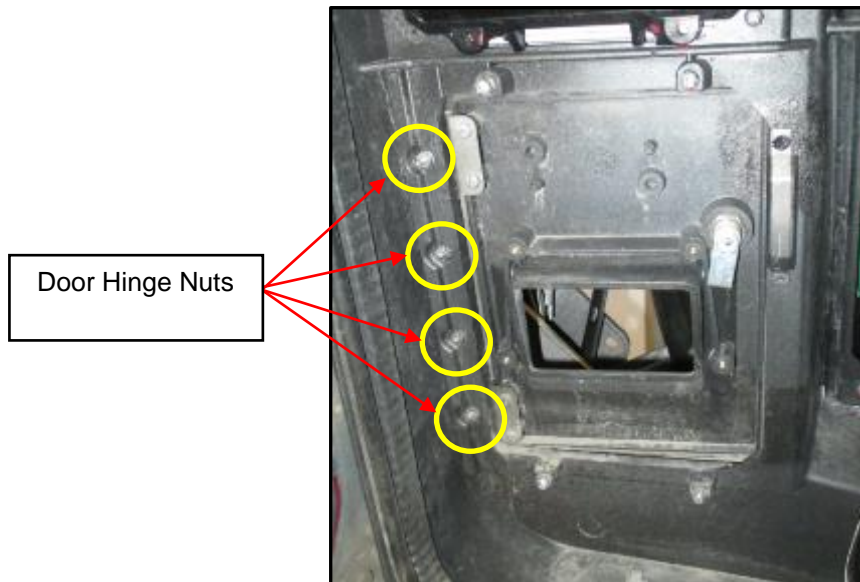
Note: Because the Printer Access Door's hinge is situated behind the door gasket, you will need to remove part of the gasket before removing the door. The gasket and door can be discarded – they will not be re-used.

11. Remove the section of the gasket covering the Printer Access Door hinge, as highlighted below. Use a flat edged blade to scrape the Printer Access Door gasket off. Take care not to damage any of the plastic near the hinge:



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- 12.** Remove the four locking hex nuts that are fastening the Printer Access Door Hinge to the Dispenser's Main Door. Depending on the dispenser variant/model, the size of the hex nuts may vary. Typically, they are either 1/4" or 9/32". The nuts can be discarded, they will not be re-used.



- 13.** Pull the Printer Access Door away from the front of the Dispenser's Main Door. It can be discarded; it will not be re-installed.

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5 Pre-Installation

This section outlines assembly stages that are to be completed before installing printer kit into the dispenser.

5.1 Remove the old Printer Access Door gasket

The Wayne Ovation 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 may need replacing to ensure the weather proof integrity of the dispenser is maintained.

You must remove the old gasket from the Printer assembly. A new gasket for this area is provided in the RFK pack.

To remove the old gasket:

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.

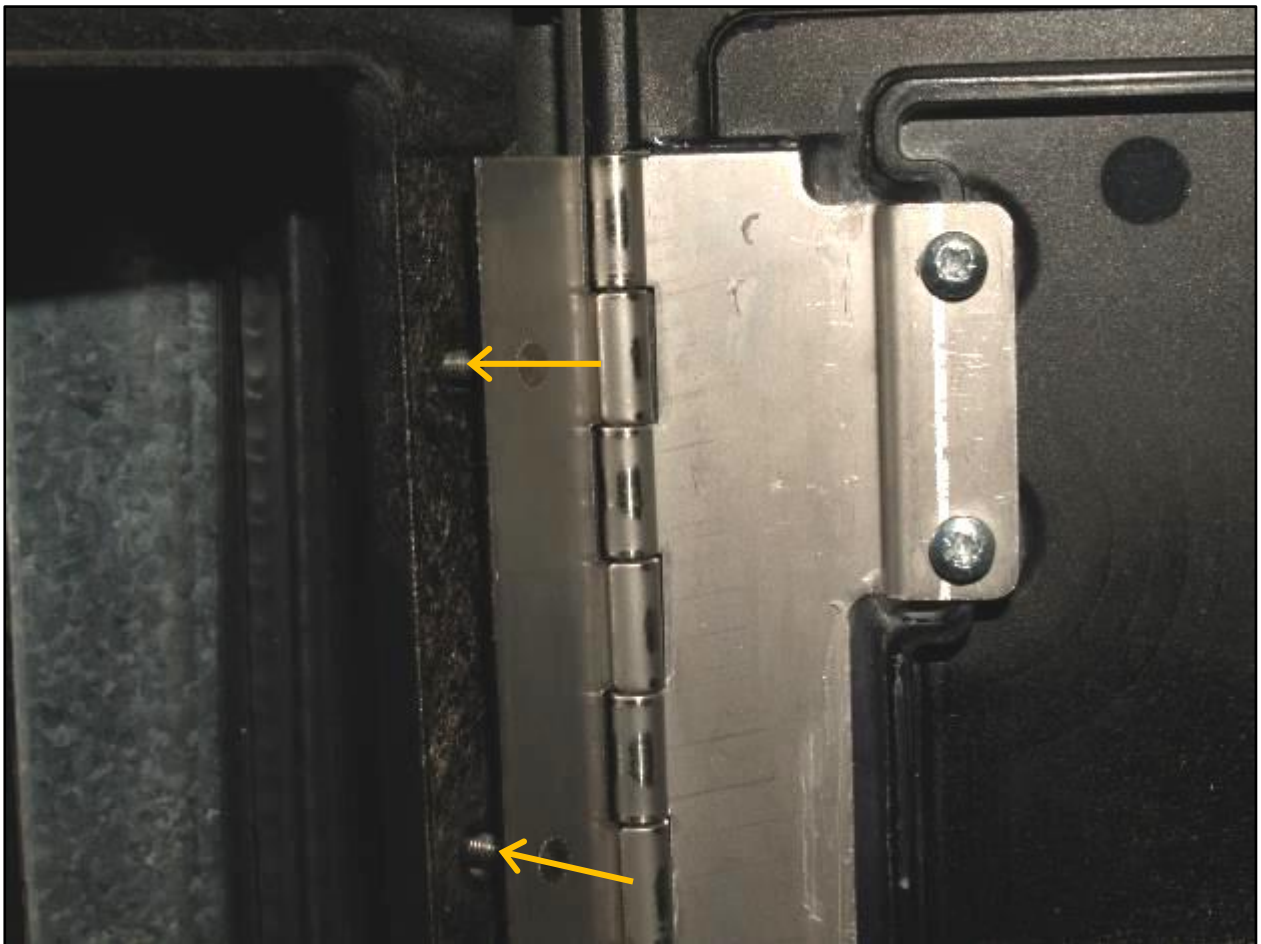
3. Apply IPA cleaner solution to a new cleaning rag and thoroughly wipe down the area cleaned with the sticky residue cleaner.
4. Allow the plastic to dry completely.

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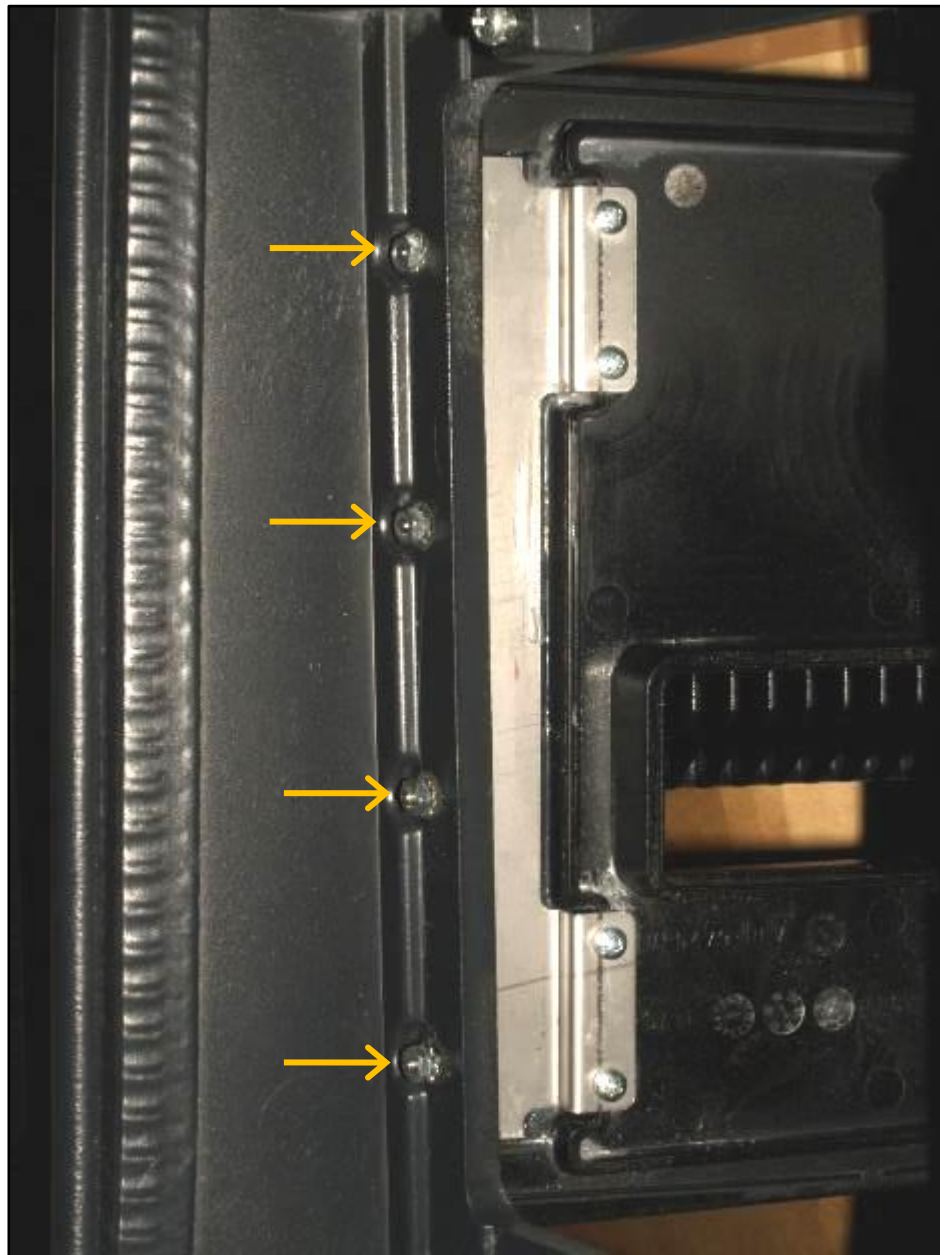
6 Installation

This section outlines assembly stages that are to be completed on the pump. The install procedure is common for both A and B sides. References to “left hand” and “right hand” are as viewed from the side you are working on.

1. Partially open the dispenser door, i.e. do not latch it open. It needs to be about $\frac{3}{4}$ open to make fitting the new printer door easier.
2. Remove the adhesive backing from hinge on the new Printer Door MZ0082 (or MZ0250-XX), then align the door and place in position ensuring the 4 threaded studs on the hinge pass through the 4 holes.
3. Press gently on the hinge to help the adhesive stick. This will support the printer door for easier assembly.



4. From the inside of the dispenser door, start the four M3 nuts (MN0039) by hand.
5. Use the M3 Nut Driver or 5.5mm socket to tighten the nuts.

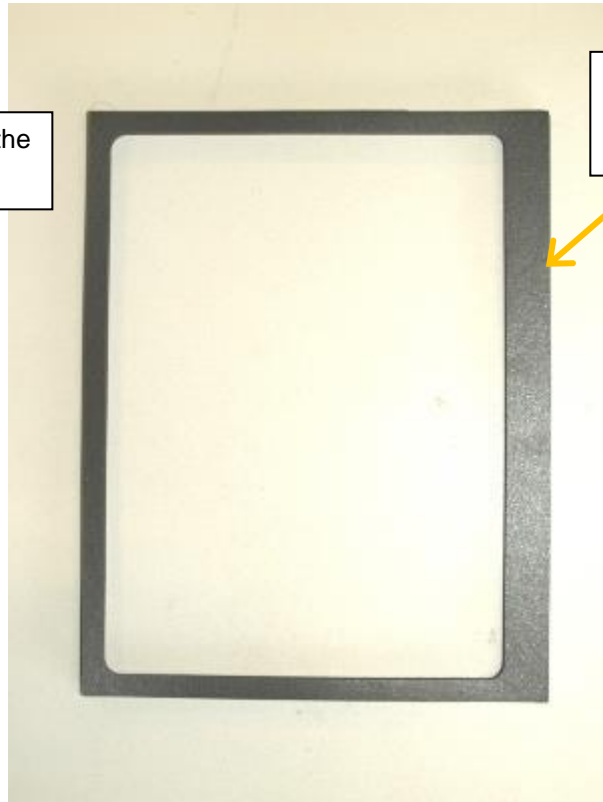
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6. Close the dispenser door, but leave the Printer Door open.
7. Apply the new gasket MP0528. Start with the widest portion, which goes onto the hinge section. Initially peel off the backing paper for this section only.

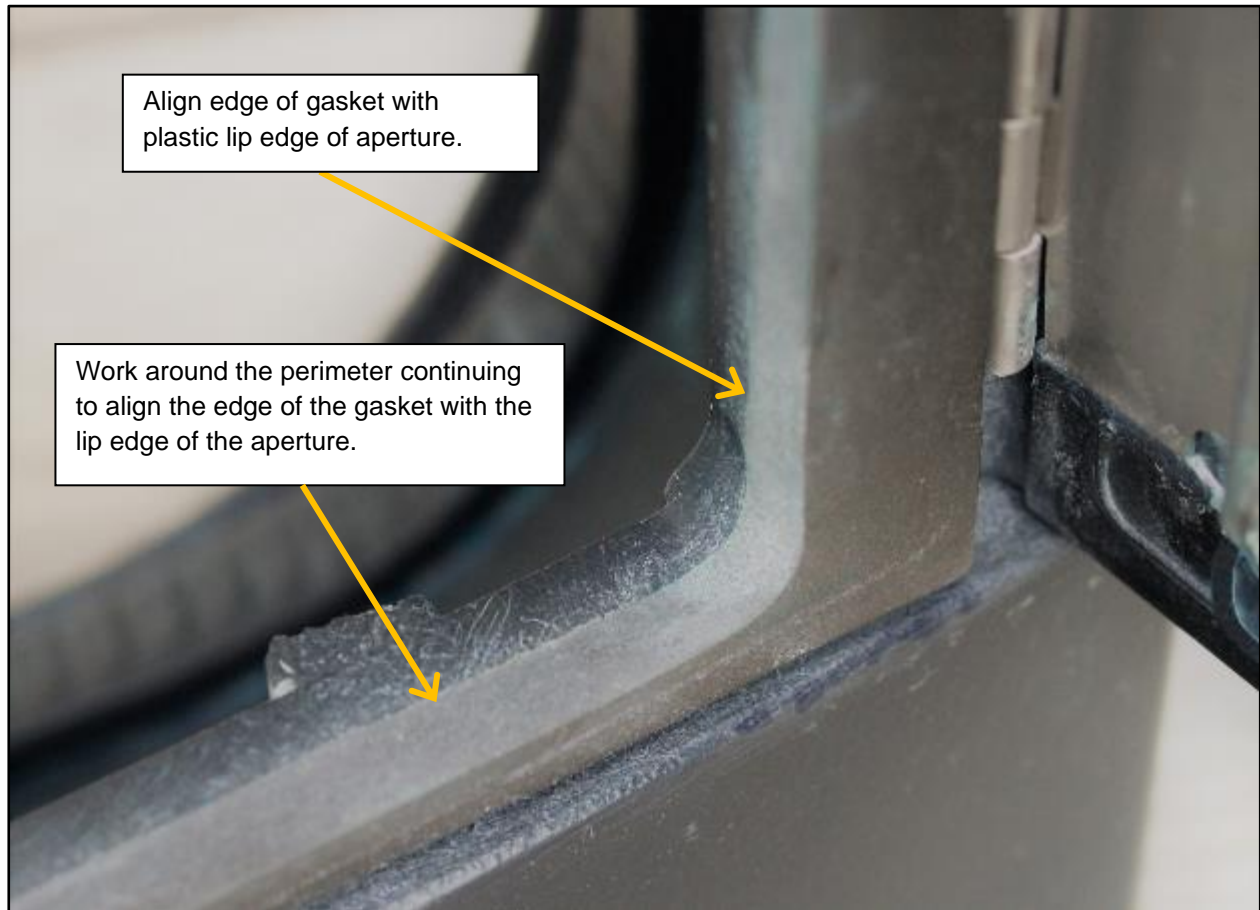
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Gasket as viewed from the
outside of the dispenser

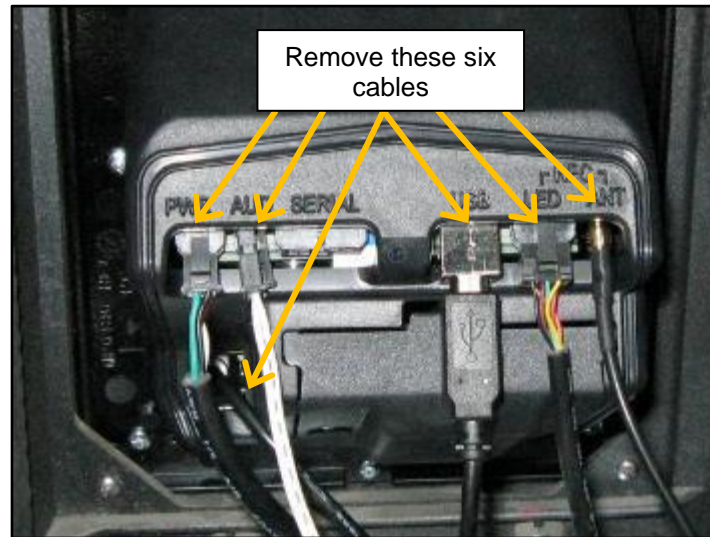
The wide part of the
gasket goes over the
printer door hinge



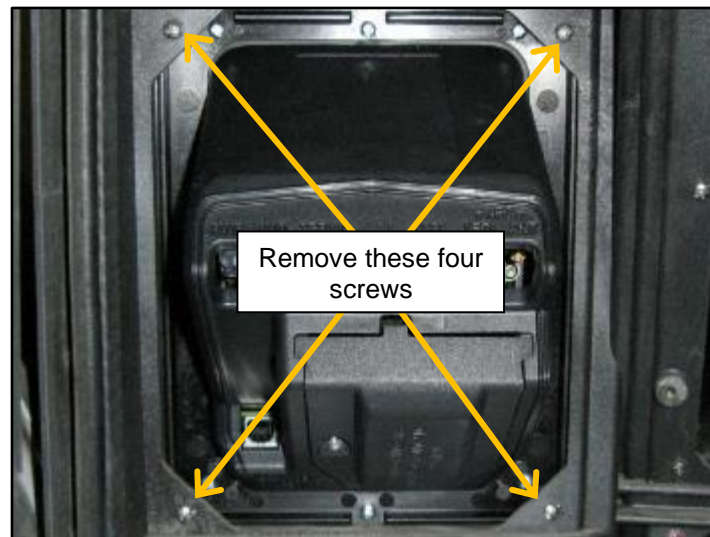
8. Align the inside edge of the gasket with the raised plastic lip edge on the aperture and lightly apply pressure. Peel off the backing paper of each adjoining section and align the edge of the gasket with the raised lip edge of the plastic as previous, working around the gasket until finishing on the left hand side. If the gasket needs adjustment for alignment, carefully peel back, adjust and lightly re-apply. If alignment is satisfactory, apply firm pressure to fix it in place.

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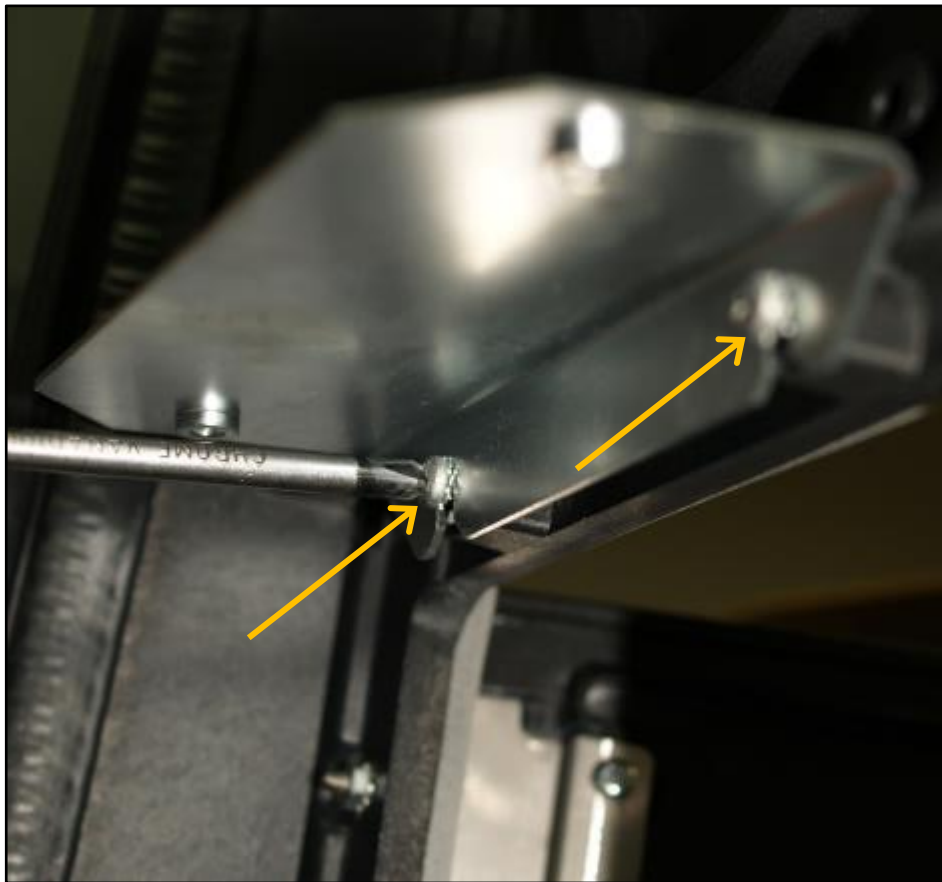
9. Open the dispenser door.
10. If this installation already contains a G7 system, the Keypad RFK panel above the printer door must be removed to facilitate the printer installation:
 - a. Mark the position of each of the six cables connected on the back of the Keypad RFK for later reconnection.

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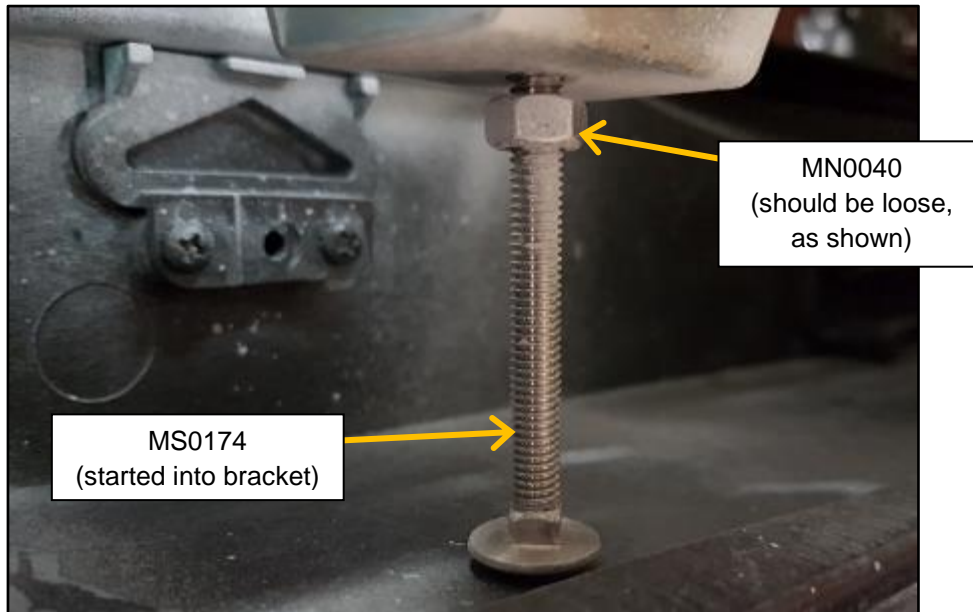
- b. Disconnect the six cables and carefully place their ends out of the way.
- c. Loosen and then remove the four M3x10 screws holding the Keypad RFK panel (support the panel to prevent it falling out). Retain the screws for later reinstallation.



- d. Carefully remove the Keypad RFK from the outside of the Pump Door, and place it in a safe area for later reinstallation.
11. Install 'L' Bracket MP0502 using 2X MS0121 screws, mounting onto the top two mount points. Tighten the screws firmly.

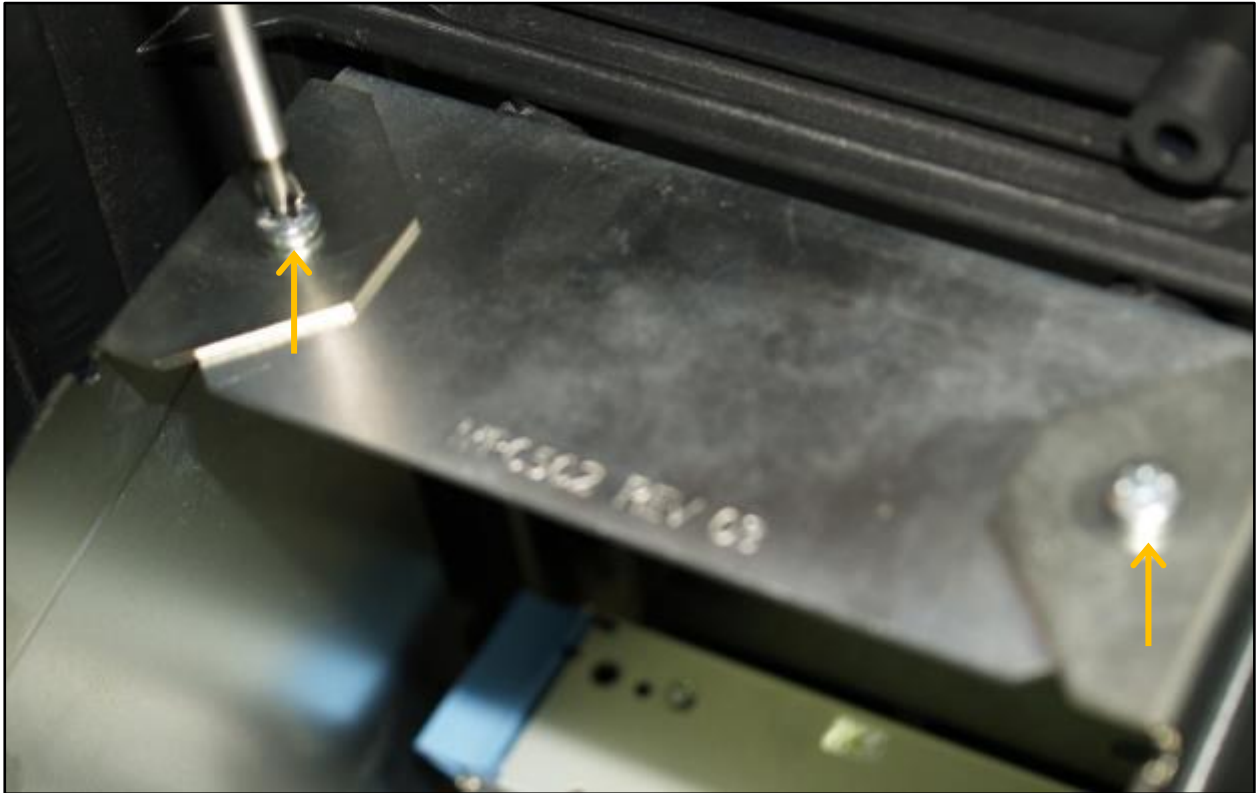
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12. Loosely fit the M6X60 Coach Bolt MS0174 and the M6 nut MN0040 to the underside of the Printer Housing sub assembly EZ0247. Do not tighten, but rotate and insert by hand as far as the threads permit.

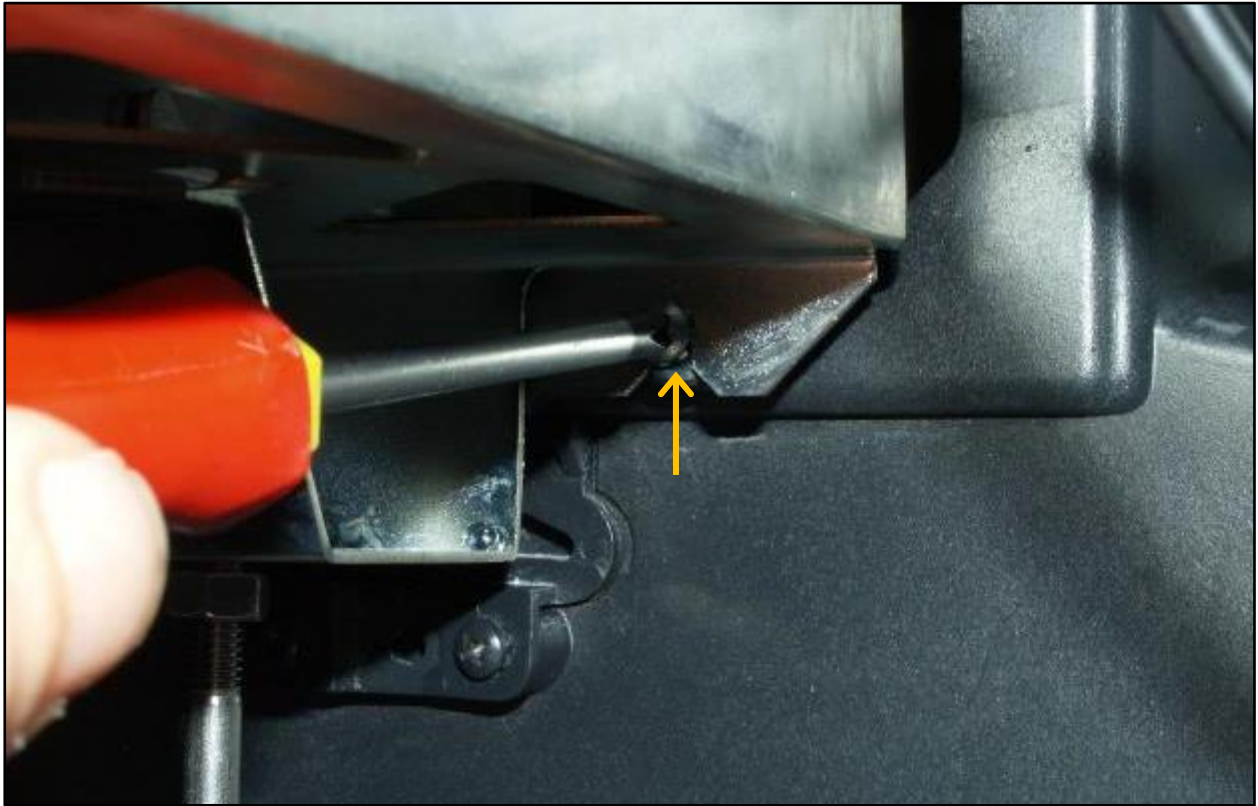
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13. Fit the remaining 2X screws MS0121 into the bottom 2 mounting points on the printer door opening, but do not tighten all the way in. Leave a gap of about 1/8" between the screw head and the mounting surface.
14. Hold the Printer Housing sub-assembly EZ0247 about an inch above the 'L' Bracket MP0502. Use the screw holes as an alignment guide and lower the sub-assembly to rest on the 'L' Bracket. At the same time align and slot the bottom 2 mounting tabs on the sub-assembly into the 1/8" gaps between the screw heads and the mounting surface.
15. Lower the Printer Housing sub-assembly gently to contact the 'L' Bracket. While continuing to hold the Printer Housing sub-assembly, insert 2 X M6X10 MS0160 screws into the L bracket holes and tighten.

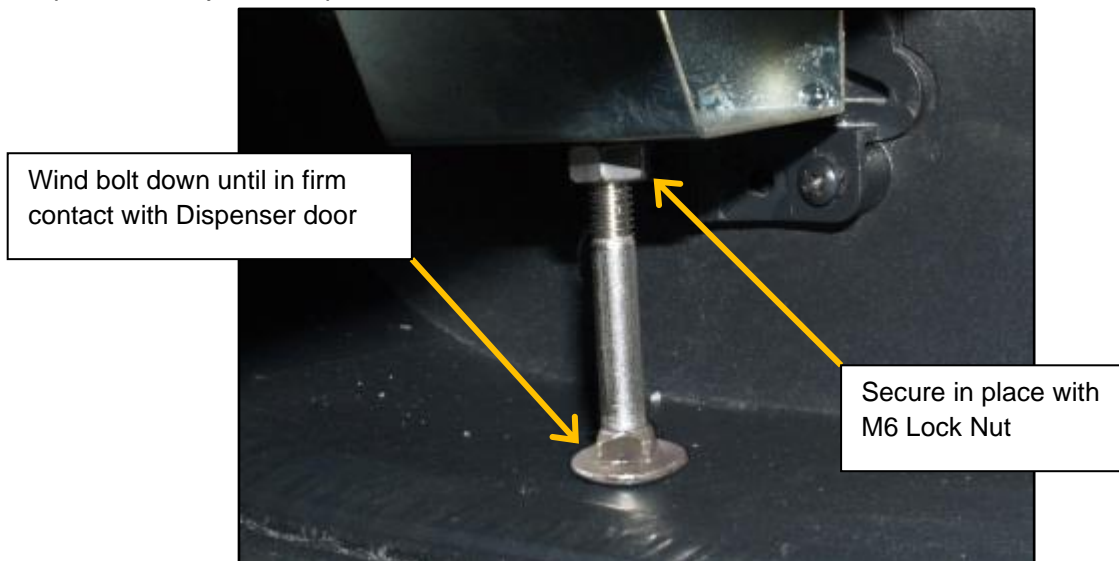
DO NOT allow the Printer Housing sub-assembly to be supported solely by the bottom mounting tabs – it is too heavy and may crack the bottom screw-bosses.

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16. Tighten the 2X MS0121 screws in the bottom two mount points.

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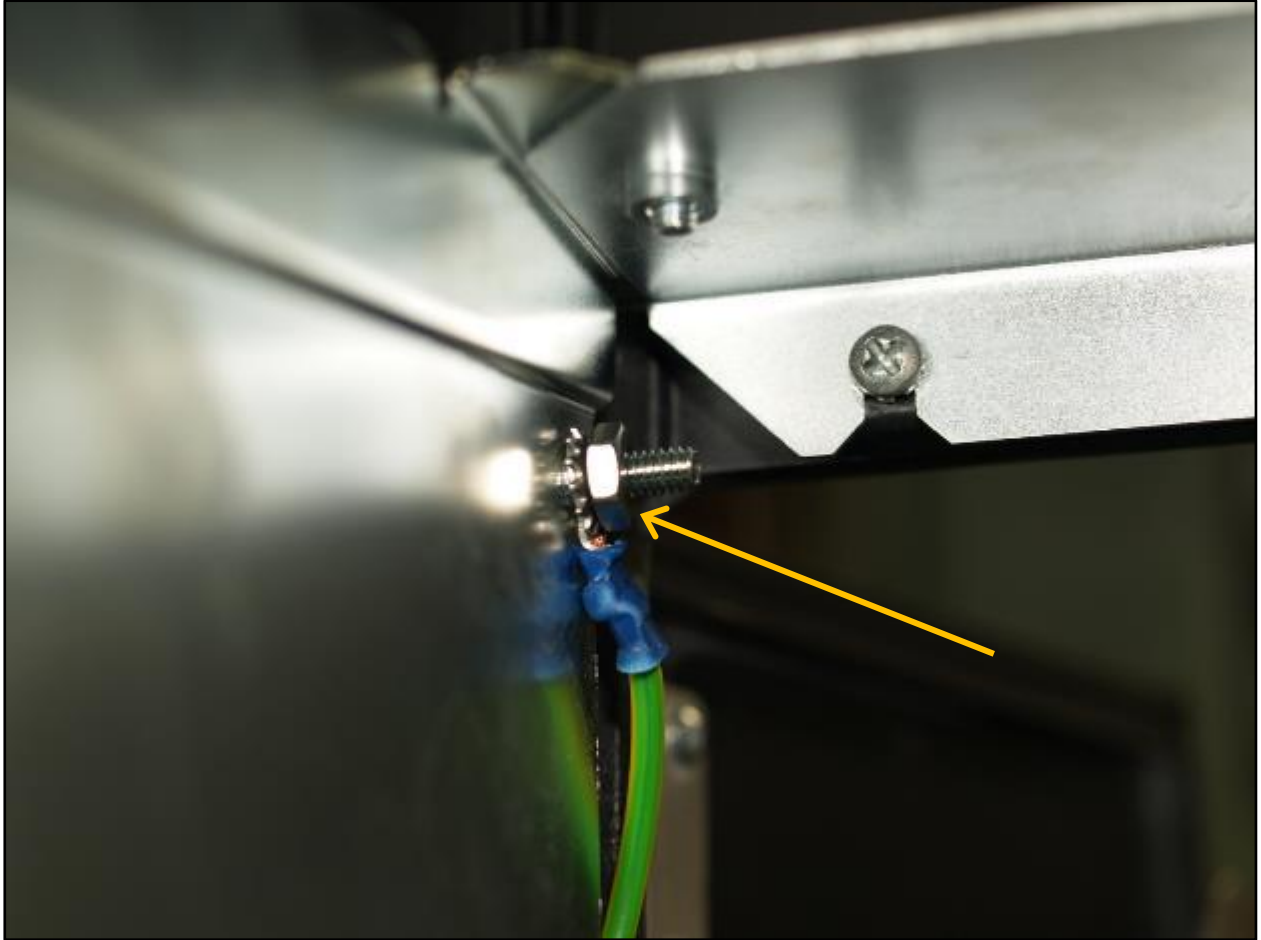
17. Wind down the M6X60 Coach Bolt foot MS0174 by hand until it makes firm contact with the Dispenser Door. Tighten the M6 lock nut MN0040 to secure the foot in place using the 10mm Spanner or Adjustable Spanner.



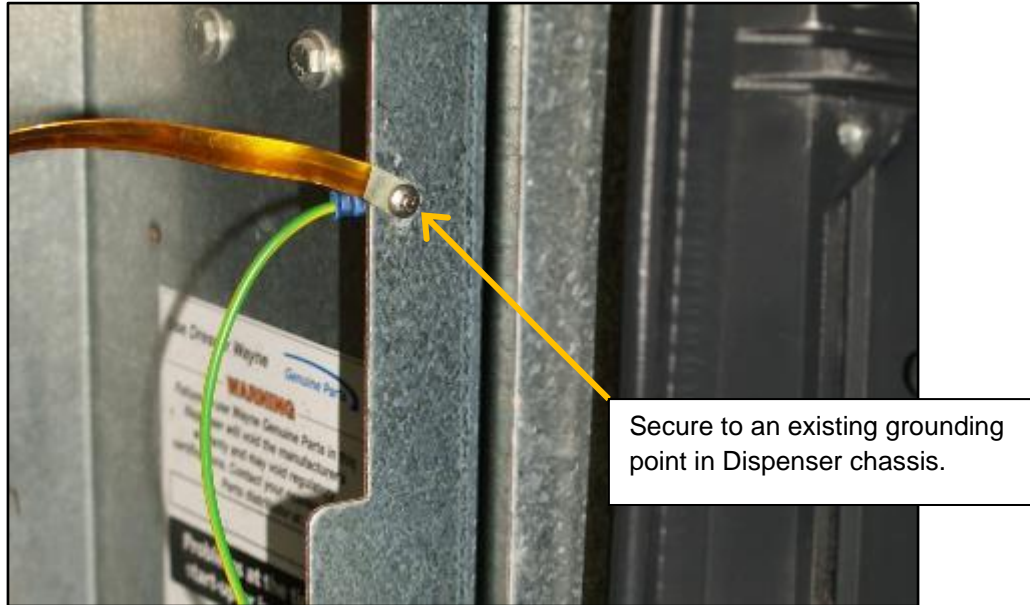
18. Viewing the Printer Housing sub-assembly from its rear, feed Grounding Cable EK0155 through around the top left hand side of Printer Housing and locate onto the grounding stud which is located

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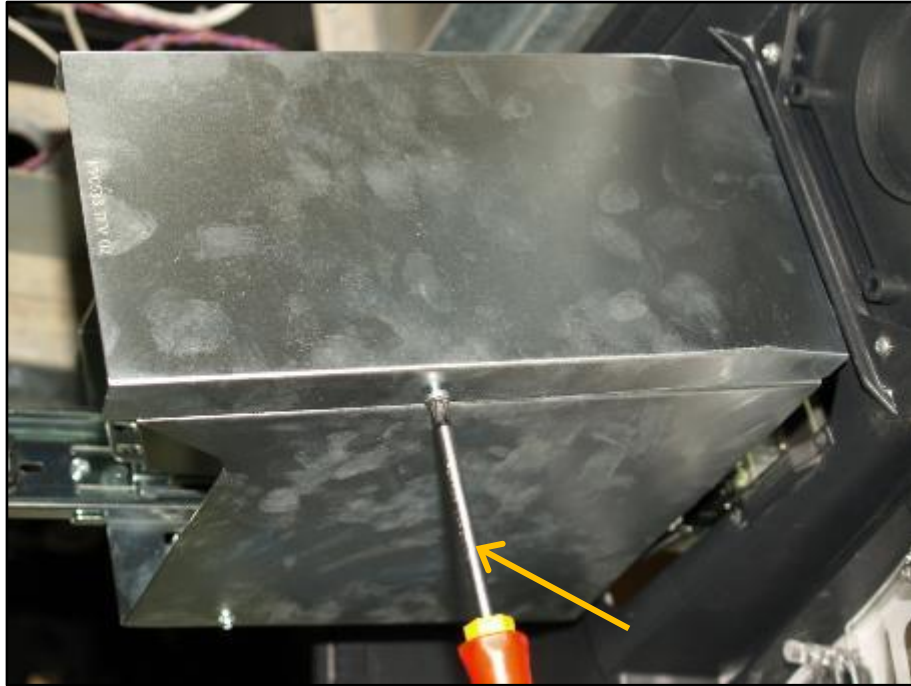
at the top left front corner. Tighten Grounding Nut MN0031 firmly onto the Grounding Cable loop terminal using the 11/32" Ring Spanner or Socket.



19. Attach the other end of the Grounding Cable EK0155 to a suitable grounding point on the chassis, by removing the existing hardware and replacing it.

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20. Align Lid MP0533 onto the top of the housing so that the bend is towards the Printer Door, and secure in place with 2X screws M6X10 MS0160, firmly tightened.



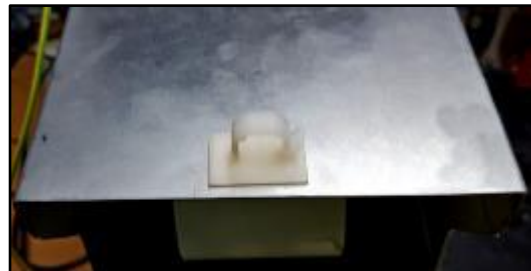
21. Close and lock the Printer Door.
22. Insert the USB Cable EK0157 and the Low Voltage Power Cable EK0117 into the back of the printer.

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23. Attach 1X MN0046 self-adhesive Cable Clip to the underside of the lid on the left-hand side about 2 $\frac{3}{4}$ " from the back edge.



24. Attach 1X MN0046 self-adhesive Cable Clip to the top back center of the Lid MP0533.



25. Thread both cables through the clips so that they form an 'S' bend shape. Loosely fit a cable tie to both clips, but do not fully tighten yet.

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26. Close the Dispenser Door.
27. Open the Printer Door and pull the printer out on the slide to the full extent of the available travel. Ensure there is sufficient cable between the Printer and the first Cable Clip on the underside of the Lid. Adjust the length of the cable to suit, the cable should be without slack, but should not be under strain through being overly tight or taught.
28. Place a cable-tie on the cable clip inside the lid and tighten it. Clip off any excess.

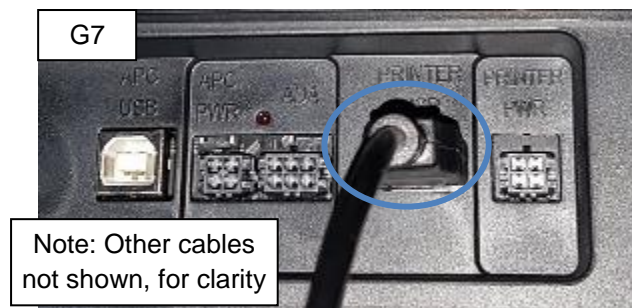


29. Push the Printer back into the housing and close the printer Door.
30. Open the Dispenser Door.
31. Add another cable tie in the middle of the cable run between the first Cable Clip and the Printer to keep the cables together as a bundle. Cut off the excess tail with the Side Cutters.



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32. Pull any excess cable through the 2nd Cable Clip on the top of the lid and loop any excess cable temporarily into the bottom of the door out of the way.
33. Close the Dispenser Door and observe the movement of the cable bunch through the open Printer Door as the Dispenser Door is closed. Check that the looped cable does not snag or scrape past any chassis members in the Dispenser.
34. If the cables do not snag or scrape, open the Dispenser Door, add a third cable tie to the cable clip on top of the light and pull it tight to retain the cables. Cut off any excess cable tie tail with the Side Cutters.
35. If the cable does snag or scrape, adjust the free length of cable between the cable ties and repeat the observation until this is eliminated.
36. With the Dispenser Door closed, open the Printer Door and pull the Printer out of the Dispenser. Insert a roll of Printer Paper into the printer. Push the Printer back into the Dispenser and observe that the cables do not interfere with the roll of printer paper.
37. If the cables do interfere with the roll of printer paper, make further adjustments to looped cable lengths and Cable Tie locations as necessary to eliminate any points of contact.
38. Plug EK0157 into the "PRINTER USB" socket on the G7 or the G7 15 inch SDC (Note: for the G7 15 inch, can be inserted into any of the four USB slots):



39. Plug EK0117 into the "PRINTER PWR" socket on the G7 or the G7 15 inch SDC:

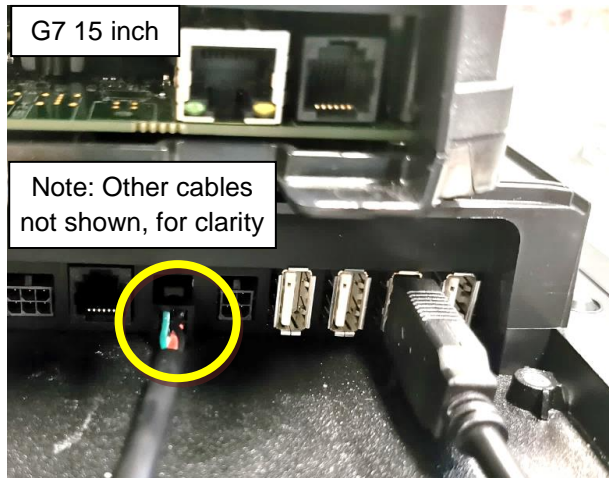
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G7



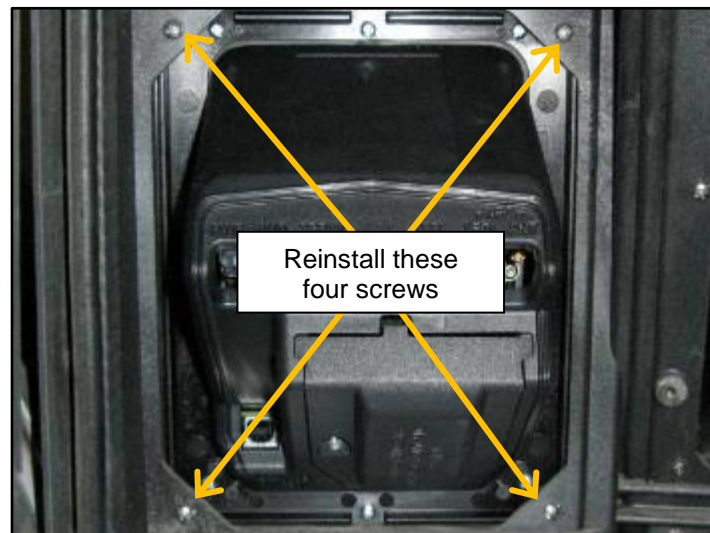
Note: Other cables not shown, for clarity

G7 15 inch



Note: Other cables not shown, for clarity

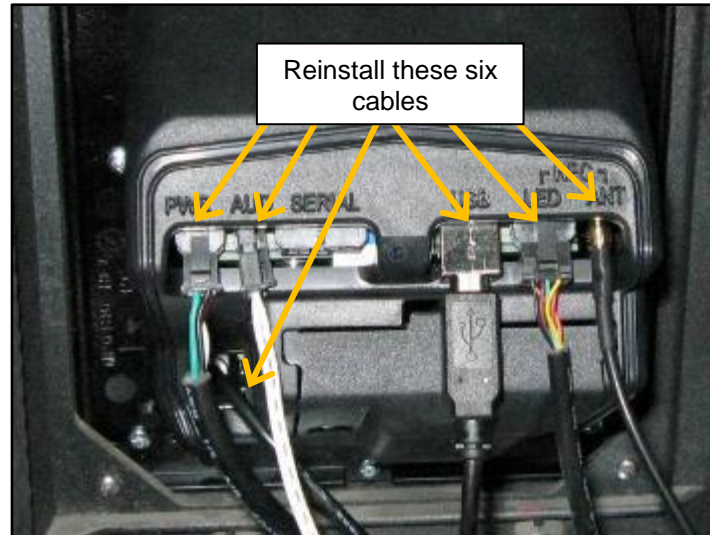
40. Draw the cables toward the other loomed cables of the G7 or the G7 15 inch system, and use cable ties to incorporate them into the loom. Ensure any excess cable is tied securely so that it cannot be pinched or snagged when moving the Pump Door.
41. If you removed the G7 Keypad RFK panel in step 10 above, it must be reinstalled now:
 - a. Place the Keypad RFK panel into the opening from outside the Pump Door, ensuring it is oriented correctly (keypad uppermost, card-reader slot lowermost).
 - b. While supporting the Keypad RFK, start the four M3x10 screws removed in step 10.



Reinstall these four screws

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- c. Tighten the four screws.
- d. Reinstall the six cables removed in step 10.



- 42. Use cable ties to tidy up the installation. Excessive lengths should be bundled and tied so they stay close to the printer housing and/or G7 system and well separated from any pump mains wiring.
- 43. The installation procedure is now complete. If this installation was NOT part of a G7 system installation, close and lock the pump door, then restore power to the pump:
 - a. Lift the latch lever to release the door.



- b. Swing the door shut slowly ensuring that cables are not being pinched. If cables are being pinched open the door and re-secure the cables before re-closing it.
 - c. Use the Ovation 1 door key to tighten the bolts at the top & bottom left corners of the door.
- 44. Discard any packaging for the Printer Retro-Fit Kit, and refer back to the installation instructions for the particular OPT Retro-Fit Kit with which you were working.