


iN/ENCO®	Document Number	DCV-00551
	Date Released	May 2022
	Revision Number/Security level	R02 S2
Retrofit G6-300 + InvencoLink Tokheim Premier B (US) Installation Guide		

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Kit Part Number: RF00036-XX

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Release History

Version	Prepared by	Date	Change description
0	Michael Doh	Apr 2022	Initial Release based on 497-0513401 (B) with new lock/latch fitted in the panel assembly
1	Michael Doh	May 2022	Addressed UL comments
2	Michael Doh	May 2022	Corrected A/C harness plug descriptions

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1 Introduction

The documentation provides some basic guidelines for installing the G6-300 Outdoor Payment Terminal (OPT) system in a Tokheim Premiere B dispenser.

This Retro-Fit Kit can be installed into either Side A or Side B of a Tokheim Premier B 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.

1.1 Tools Required

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

- Safety Glasses
- TPX88 Tokheim Key
- Medium Flathead Screwdriver
- Medium Phillips Screwdriver
- Socket Wrench
- 7/16", 7/8", and 3/8" Hex Socket or Nut Drivers
- Side Cutters or Wire Cutters
- 3mm Hex Driver or Allen Key
- Tin Snips or Sheet Metal Shears (Narrow Frame Only)
- Safety Gloves (Narrow Frame Only)



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 Recommended Materials

The following tools are not provided in the kit:



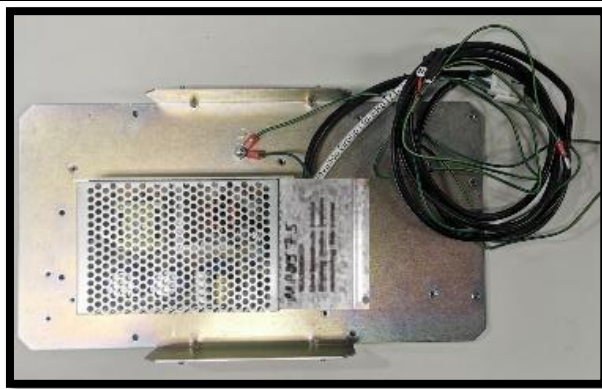

- Cable Restraints or Zip Ties
- Cloth Rags
- All-Purpose Lubricant
- Adhesive Remover
- Rust Penetrator Oil

1.3 Installation Kit Contents

Unpack the Retro-Fit Kit (**RF00036-XX**) and check that all of the parts listed below are present.

Part Number	Qty	Description	Photo Reference
RP00036-XX	1	Tokheim Premier B G6-300 panel assembly	
EK0131	1	Cat5e Network Cable (6ft, yellow)	

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EK0205	1	Tokheim Communications Wiring Assembly	
EK0206	1	Tokheim A/C Wiring Assembly	
EZ0631	1	PSU (power supply unit) plate assembly	
MP1181	1	PSU mounting adaptor bracket	



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MS0147	2	6-32 x 5/16" Screws for fitting the PSU mounting adaptor bracket	
IA0120	1	Cushion Gasket set	

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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.


2.4 Evacuation, Barricading and Shut-Off

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

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

2.5 Read the Manual

Read, understand and follow this manual and any other labels or related materials supplied with the equipment. If you do not understand a procedure, call an Invenco Authorized Service Centre or Invenco Service Officer. It is imperative to your safety and the safety of others to understand the procedures before beginning work.

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2.6 Follow the Regulations

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

2.7 Replacement Parts

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

3 Safety Symbols and Terminology



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

Signal Words

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



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



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



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

Working With Fuels and Electrical Energy

3.1 Prevent Explosions and Fires

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

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3.1.1 No Open Flames



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

3.1.2 No Sparks - No Smoking



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

3.1.3 Working Alone

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

3.1.4 Working with Electricity Safety

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

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


3.1.5 Hazardous Materials

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

3.1.6 In an Emergency

Compile the following information in case of emergency:

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

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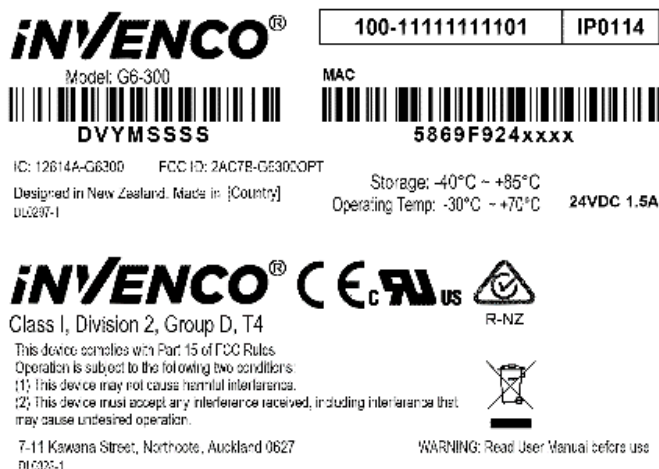
- Whether or not victim has vomited (e.g. if swallowed or inhaled something etc).

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 G6-300 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 electronic payment assembly must be removed from the dispenser. This section covers the removal of these components.

This section provides information on the disassembly of the G6-300 Tokheim Premier B Outdoor Payment Terminal (OPT). The following topics are discussed (start from the appropriate section according to the dispenser type):

- 4.1.1 Wide Frame Disassembly
- 4.1.2 Narrow Frame Disassembly

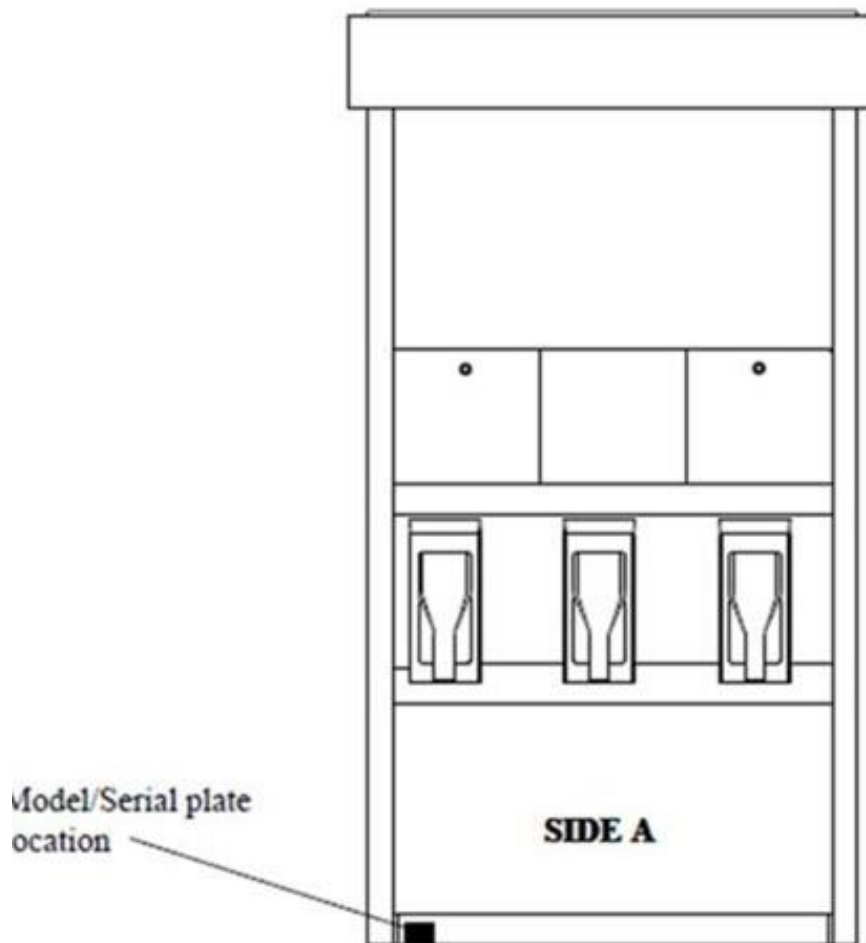
Note: Throughout this disassembly procedure there are many cable assemblies that will be unplugged and will not be reused. It is up to the discretion of the installer whether to remove these cables or position them inside of the dispenser cavity. The loose cables need to be bundled and restrained using 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.

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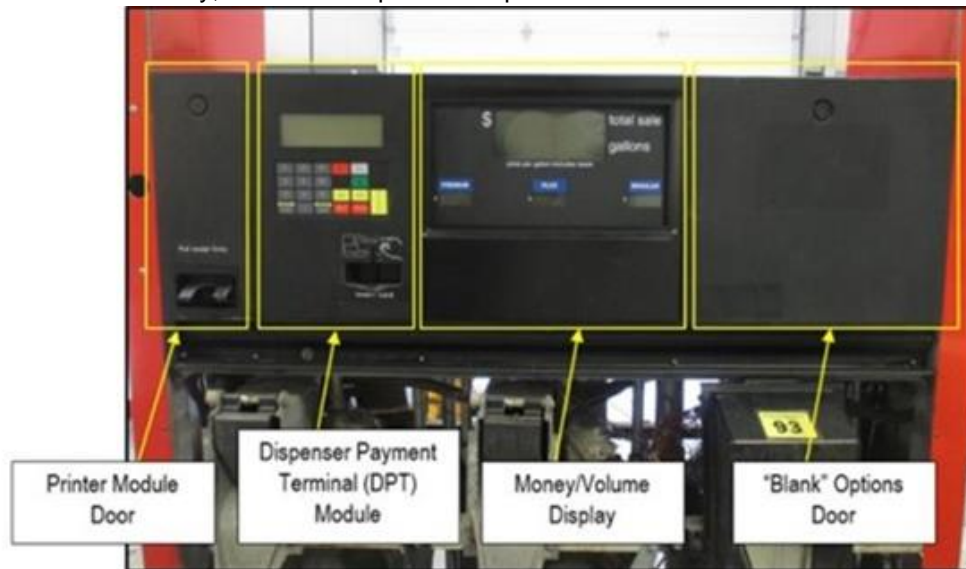
4.1.1 Wide Frame Disassembly

1. Please ensure all safety procedures are followed per requirement by the customer before installing the retrofit kit.
2. 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.
3. Identify the A Side of the dispenser. To determine Side A on the Premier Dispenser:
 - a. Look at the base of the dispenser.
 - b. Locate the Model/Serial number plate on one of the dispenser sides (the U.L. and F.C.C. plates are nearby) and stand facing it.
 - c. You are looking at SIDE A



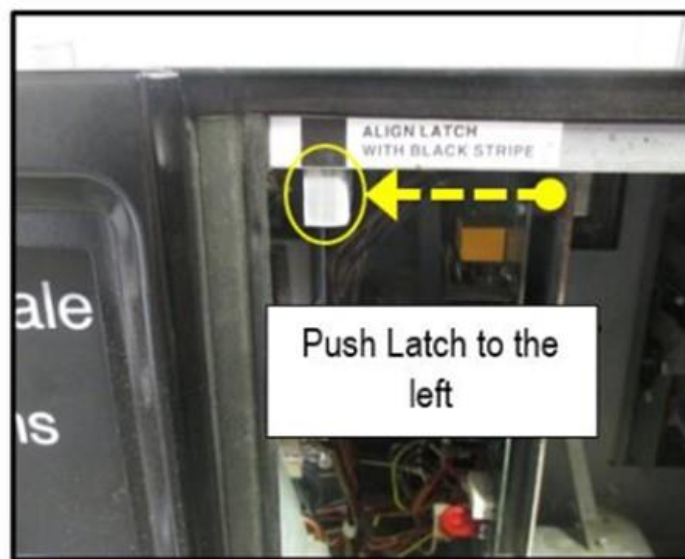
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4. Use a TPX88 Tokheim key, unlock and open the “Options Door”.



Identification of Premier B Modules

5. Pull the “Blank” Options Door forward, lift it up and off the track, and set it aside.
DO NOT discard the options door. It will be re-installed later during the Installation Procedure.
Note: Do not discard the Options Door. It will be reused during the installation process, however, on the opposite end (left-hand side) of the dispenser.
6. Push the Money/Volume Display slide latch to completely the left to “unlock” the Money/Volume Display Dial



Latch in lock position

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Latch in Unlock Position

7. Lower the Money/Volume Display Dial forward, lift it up and off the track, and set it aside. DO NOT discard the Dial. It will be reused during the installation process

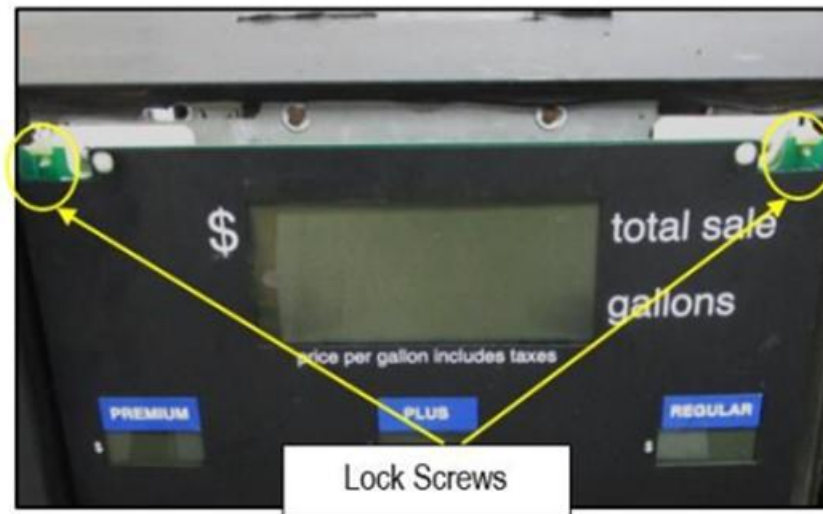


Main Display Dial

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Dial after removal

8. Loosen both lock screws (some setups of dispensers use half-turn screws, others use full thread screws) on the Money/Volume Display Assembly, then lower it by laying it forward.



Location of lock screws

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Main Display Assembly Lowered

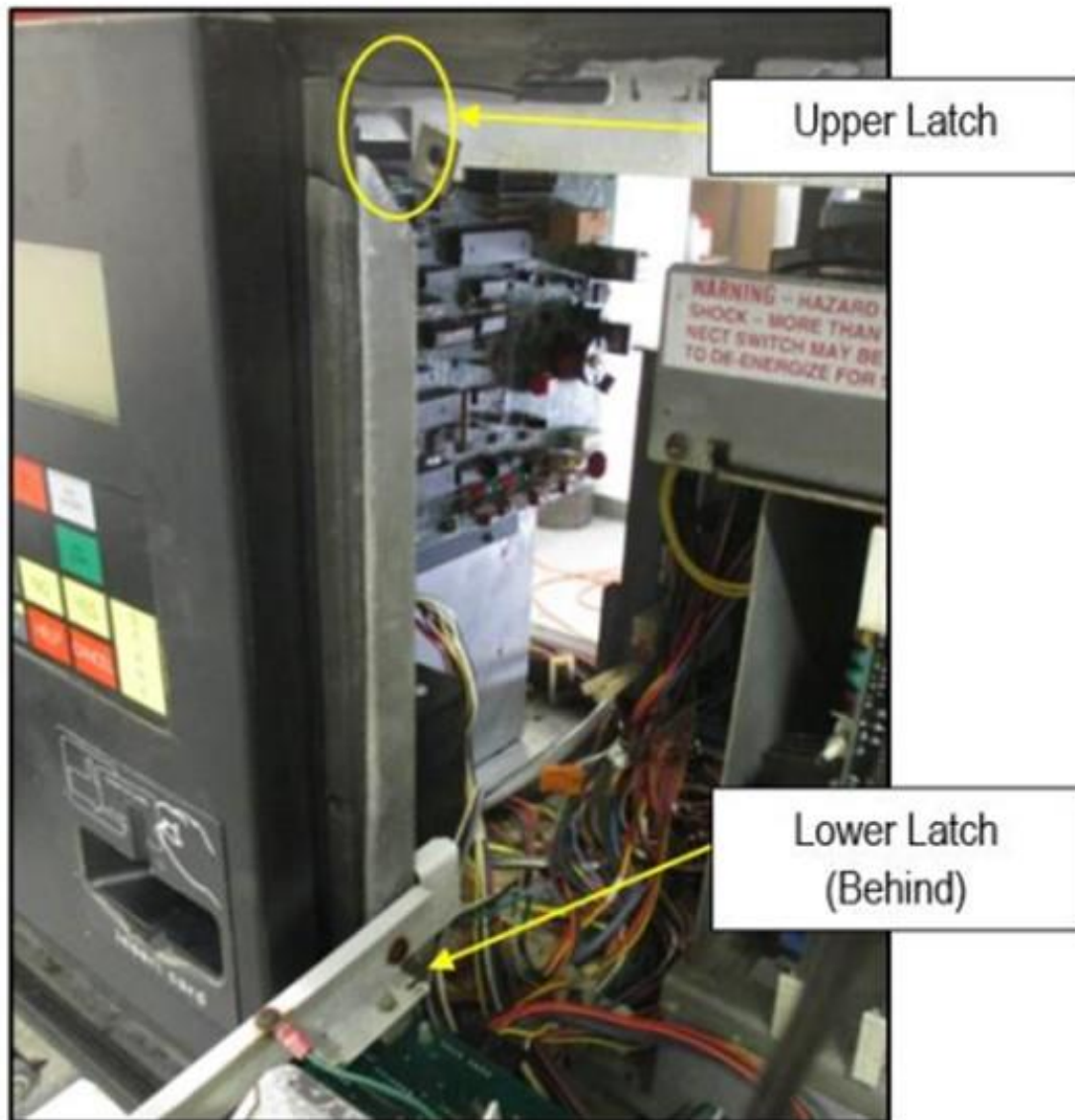
9. Unlock and lower the Printer Module Door



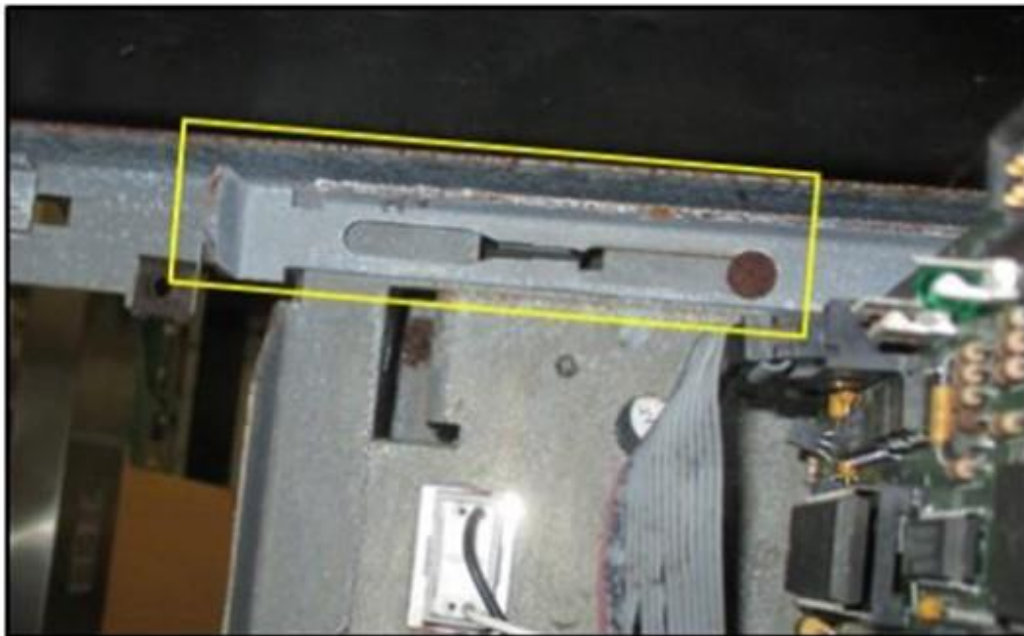
Printer Assembly Door lowered

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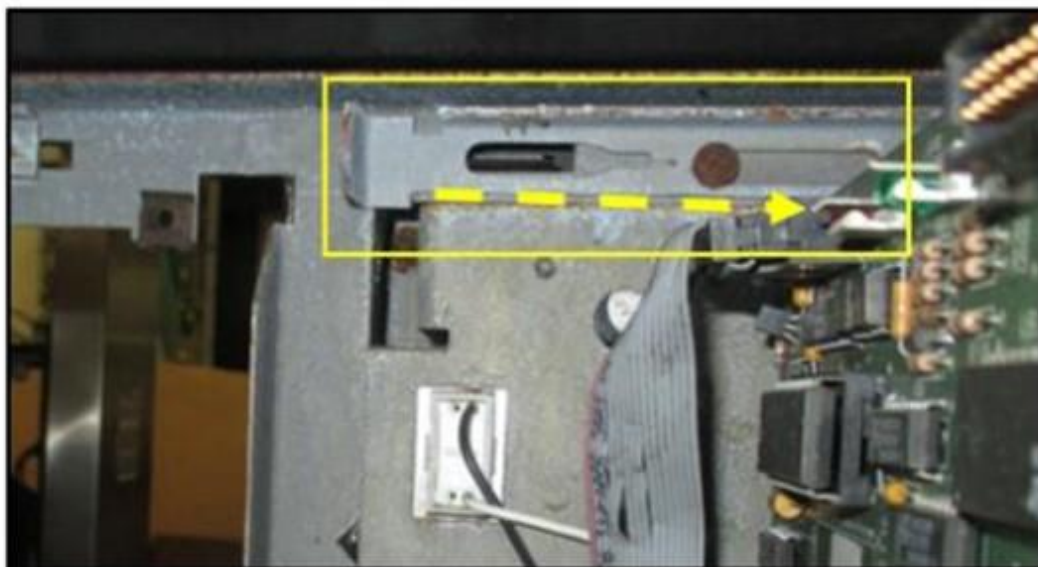
10. "Unlock" the DPT Module by shifting the lock latches located behind the upper and lower right-hand side of the module. Push the top latch to the left (towards left side of the dispenser) completely. Pull the lower latch to right (towards the right side of the dispenser) completely. Use the following pictures as a visual aid to help locate and unlock the latches



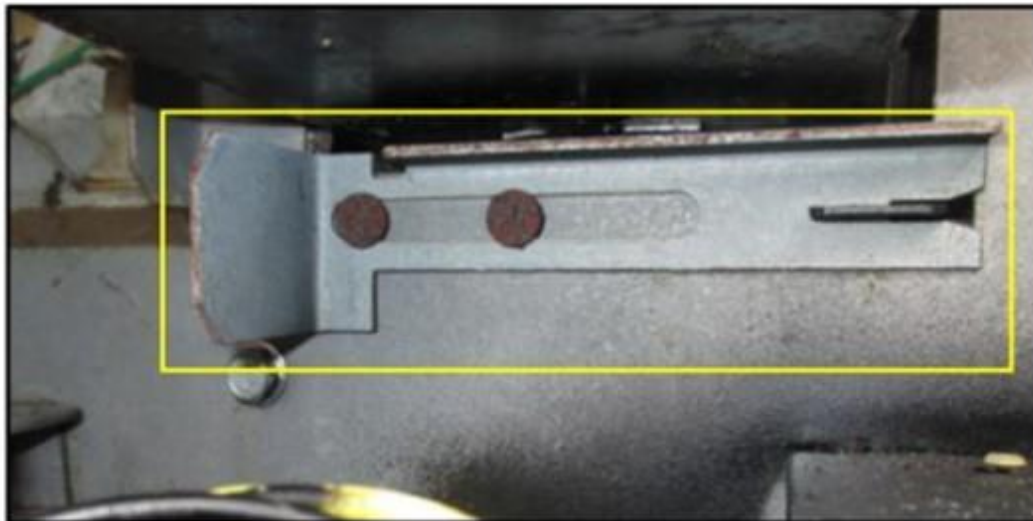
Location of upper and lower latches

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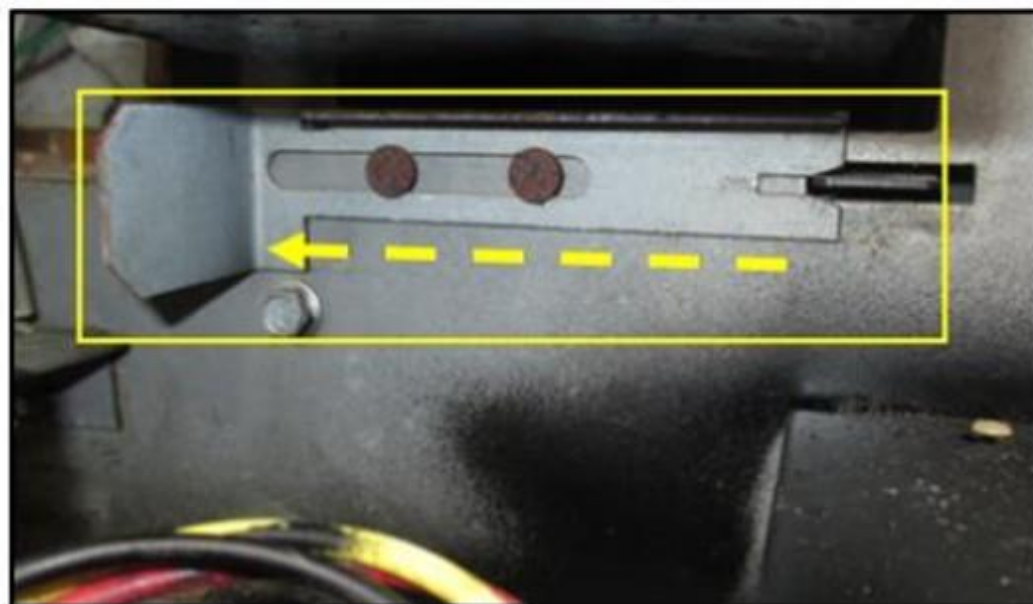
Upper Latch viewed from behind in locked position



Upper Latch viewed from behind in unlocked position

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Lower Latch viewed from behind in locked position



Lower Latch viewed from behind in unlocked position

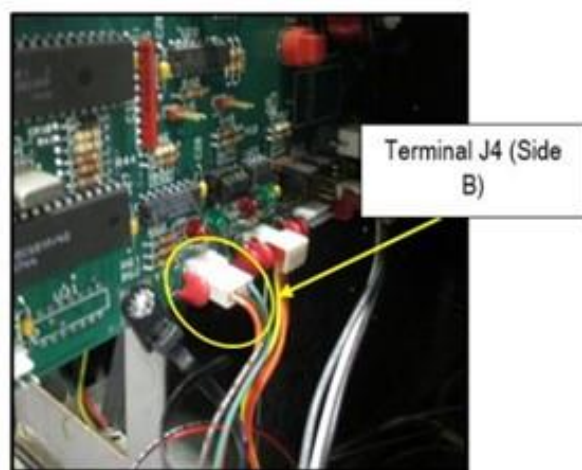
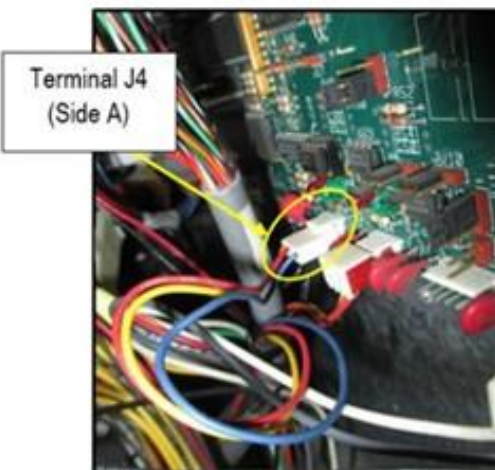
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11. Pull DPT Module forward to remove it partially; enough to allow access to the terminals and cable assemblies on the DPT Board



Pull out the DPT Module

12. On the DPT board, mark the Dispenser Communications wire assembly (terminal J4) to easily identify it later during the Installation Procedure. The Dispenser Communications wiring assemblies are color coded Yellow, Red, and Blue for Side-A and Orange, Brown, and Green for Side-B.



Location of Side-A (left) and Side B (right) Dispenser Comm Wires

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13. Including the marked Dispenser Communications wire assembly, unplug every cable assembly attached to the DPT Board as well as any other peripherals, such as a keypad, on the DPT Module.
14. Completely remove the DPT Module by pulling it out and away from the dispenser. The DPT Module can be discarded. It will not be re-installed.



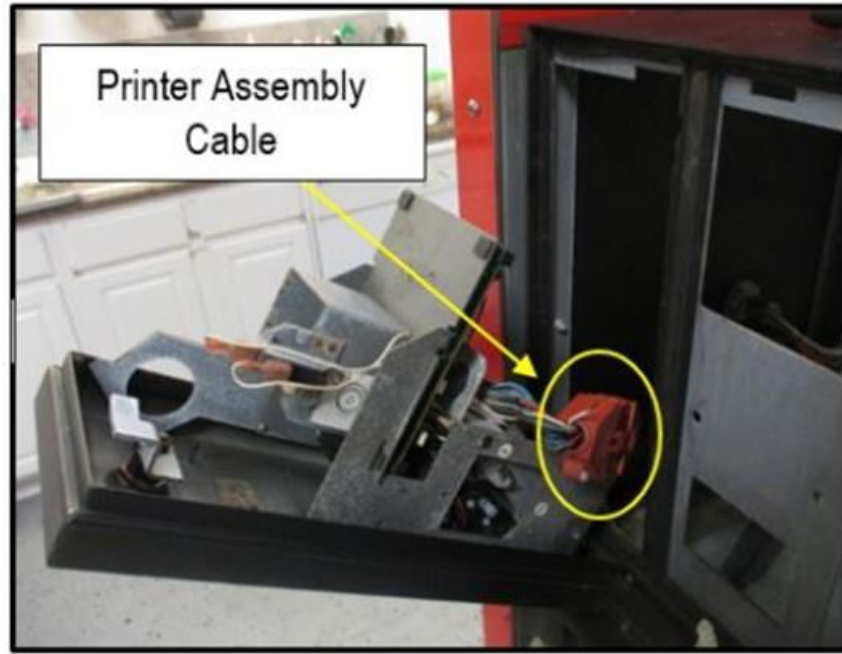
Dispenser after DPT has been removed



DPT Assembly after removal

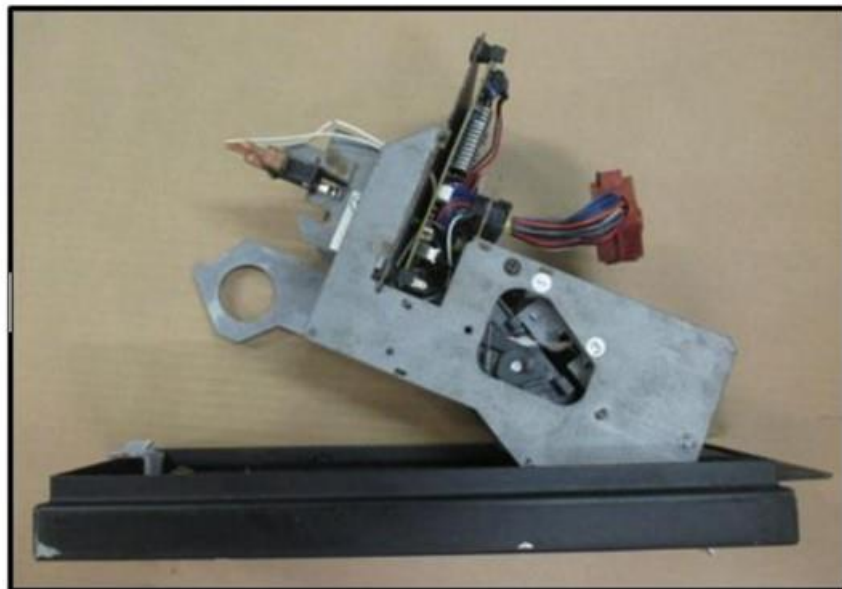
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15. Lay the Printer Assembly forward to allow access to the Printer Assembly Cable. Unplug the Printer Assembly cable.



Location of Printer Cable

16. Remove the Printer Assembly by pulling it away from the dispenser.



Printer Assembly after removal

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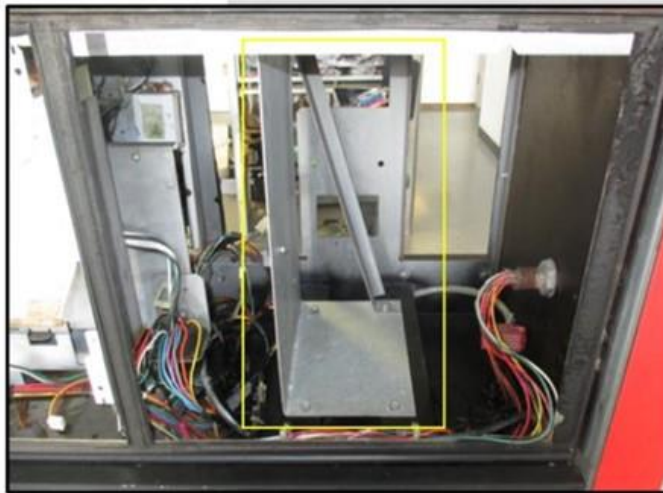
17. The Printer Assembly and Printer Module Door can be discarded. It will not be reinstalled.

18. Repeat **steps 4 - 17** for Side B of the dispenser.

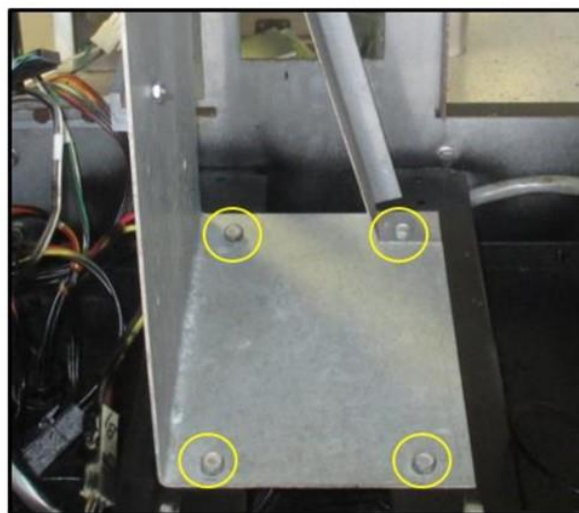
Note: Perform this step if Side B is present. Otherwise, proceed to **step 19**.

19. Remove the DPT Slide Support Bracket located on the right-hand side of the dispenser.

- a. Remove the four 3/8" bolts that are securing the bracket to the frame. Retain the bolts for the installation process.

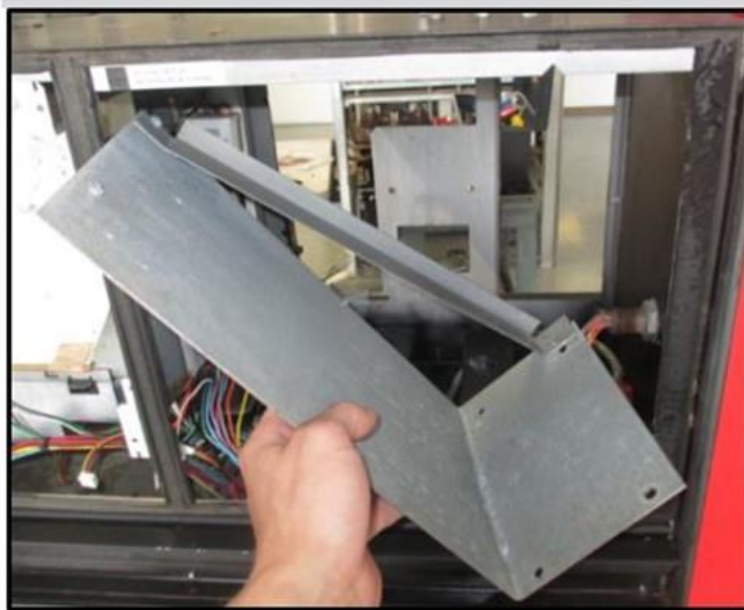


Location of DPT Slide Support Bracket



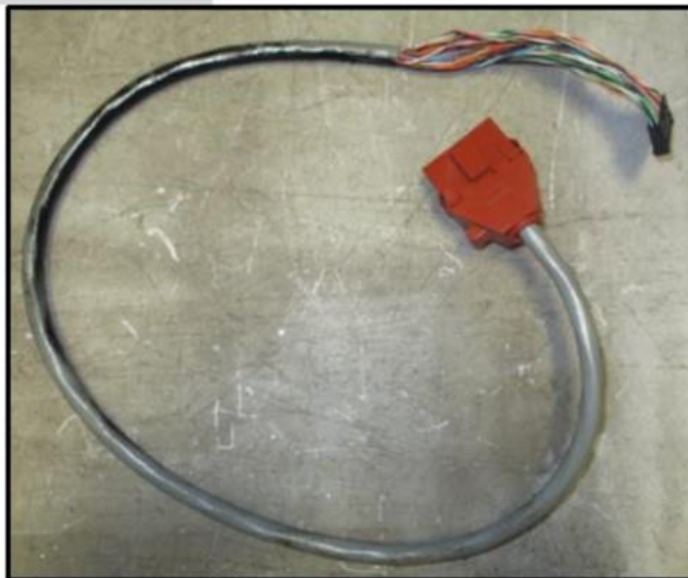
Location of the four mounting bolts

- b. Angle and tilt the DPT Slide Support Bracket and pull it out of the dispenser cabinet.

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Removing the DPT Slide Support Bracket

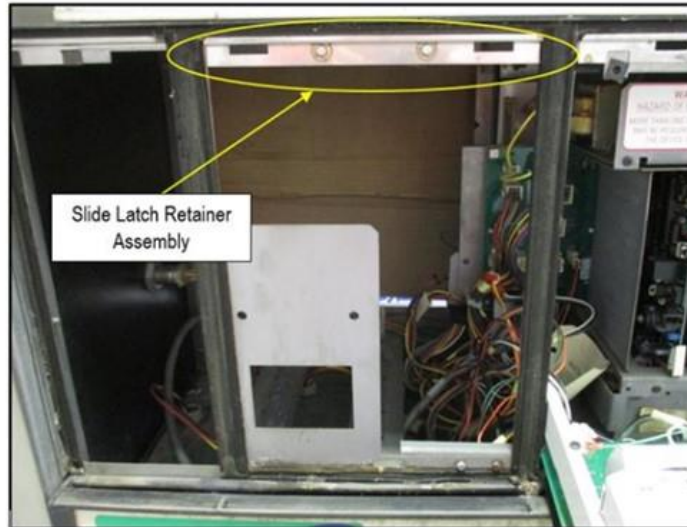
- c. The DPT Slide Support Bracket can be discarded. It will not be re-installed.
20. Pull out and discard both printer cables.



Printer Cable after removal

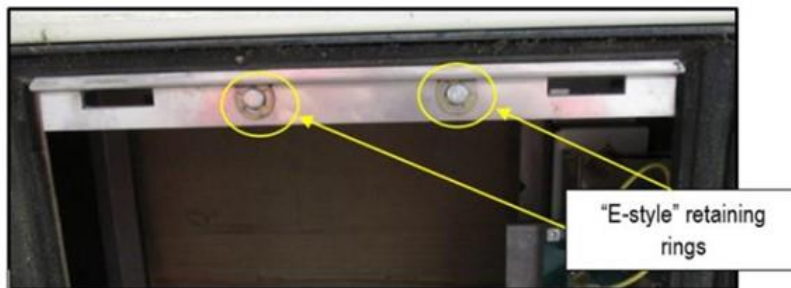
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21. Remove the Slide Latch Retainer Assembly.
- a. Identify the Slide Latch Retainer Assembly and Spacer Assembly located on the upper Enclosure Support Frame.

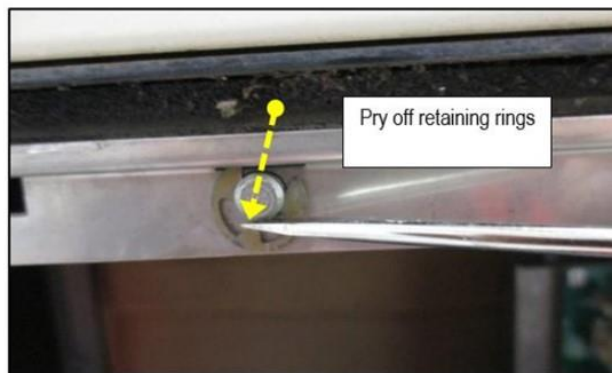


Location of Slide Latch Retainer Assembly

- b. Using a small flathead screwdriver, pry both “E-style” retaining rings off of the Pivot Pins.



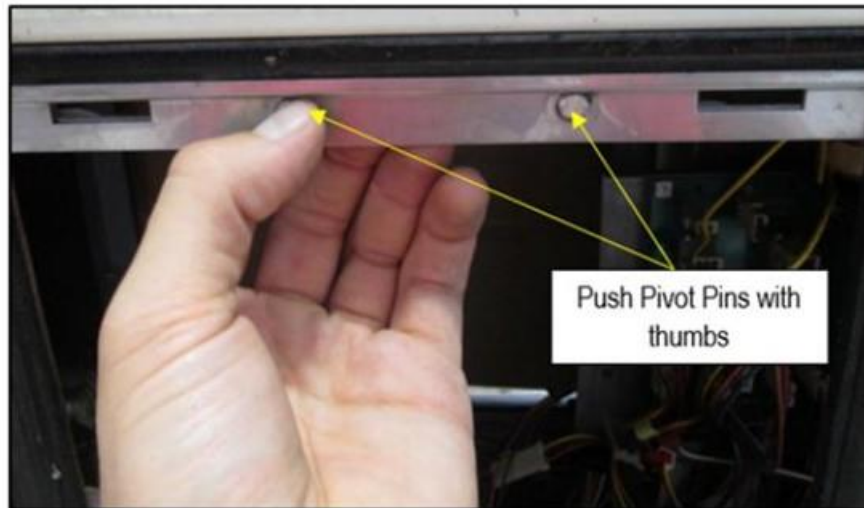
Location of retaining rings



Detailed image of removing retaining rings

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- c. Push both Pivot Pins through the back of the Enclosure Support Frame. Once the Pivot Pins are removed, both Slide Retainers will fall. Repeat the Slide Latch Retainer Assembly removal process until all Slide Latches are uninstalled. The Pivot Pins and Slide Retainers can be discarded. They will not be re-installed. Retain the Slide Latch and hardware in the Money/Volume Display location to be reinstalled.



Pushing the Pivot Pins through the backside of the assembly



Components of Slide Latch Retainer Assembly



Note: Spacers and retainer clips may be present. Remove from the door.

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22. Remove the old cushion gasket material using a flat head screwdriver or similar tool to scrape away the old gasket material and remaining adhesive. a clean flat surface is necessary to install the new gasket.

Note: All gasket and left-over adhesive material must be fully removed to ensure a clean installation surface for new gaskets during the installation procedure



23. Repeat **steps 19 and 22** for the opposite side of the dispenser. Then proceed to **step 24**.

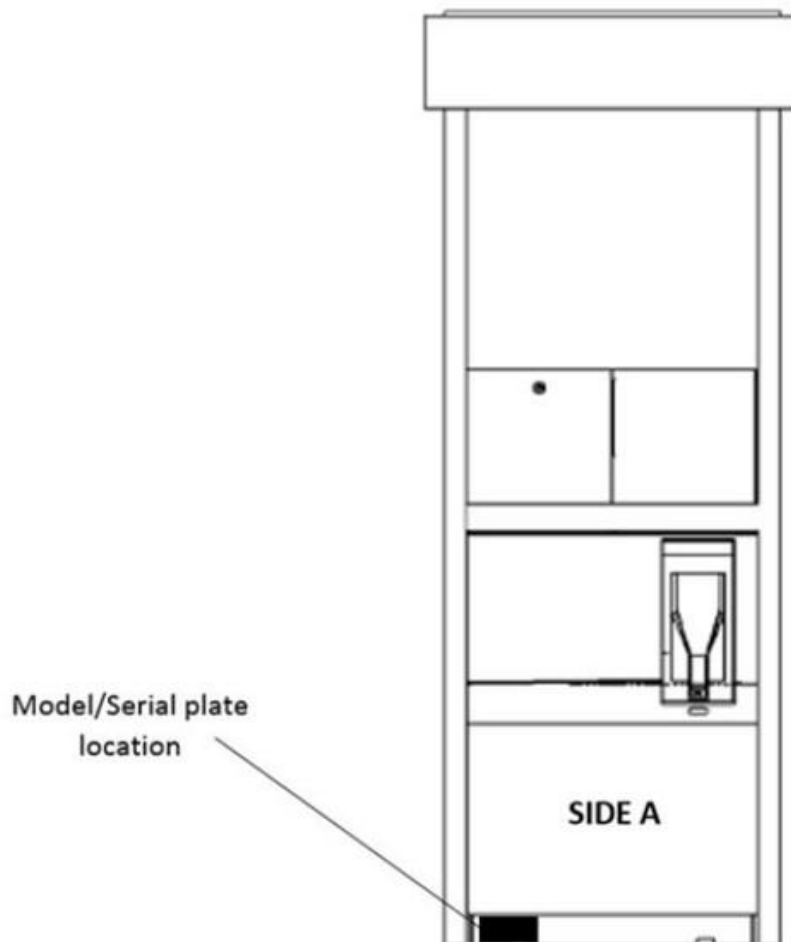
Note: Throughout this disassembly procedure there are many cable assemblies that have been unplugged and will not be reused. It is up to the discretion of the installer whether to remove these cables or position them inside of the dispenser cavity in as to not cause obstruction.

24. The Wide Frame Disassembly Procedure is complete. The dispenser is now ready for the installation of the Retrofit Kit. Proceed to section 4.2.1 for the Wide Frame installation instructions.

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4.1.2 Narrow Frame Disassembly

1. Please ensure all safety procedures are followed per requirement by the customer before installing the retrofit kit.
2. 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.
3. Identify the A Side of the dispenser. To determine Side A on the Premier Dispenser:
 - a. Look at the base of the dispenser.
 - b. Locate the Model/Serial number plate on one of the dispenser sides (the U.L. and F.C.C. plates are nearby) and stand facing it.
 - c. You are looking at SIDE A



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4. Identify if the dispenser Modules/Doors.



Identification of Premier B Modules

5. Unlock and open the Printer Module Door



Printer Access Door opened

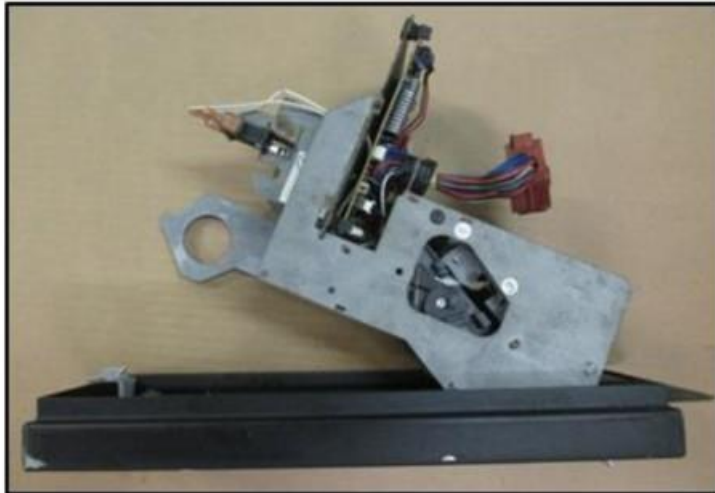
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6. Unplug Printer Assembly Cable.



Printer Cable Assembly

7. Remove the Printer Module Assembly by lifting it off the tracks away from the dispenser.



Printer Assembly after removal

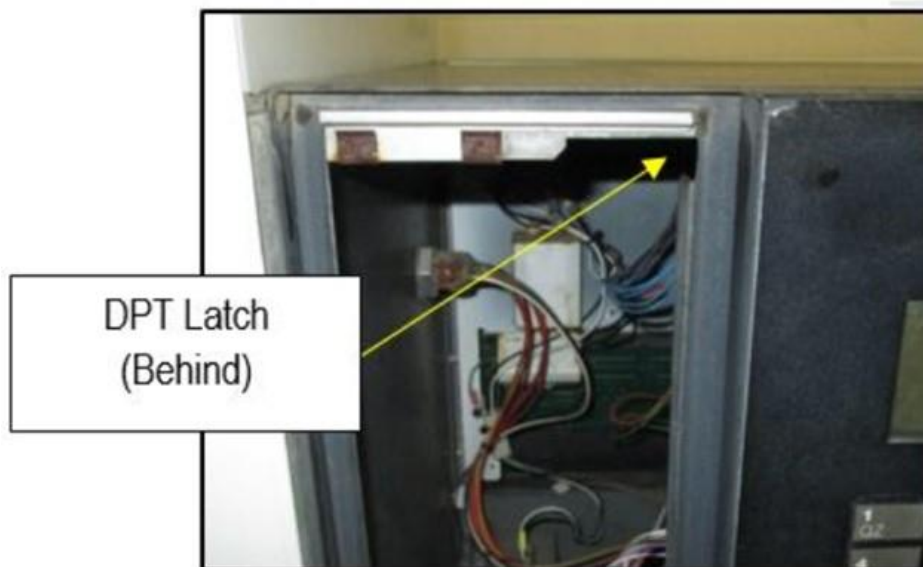
8. The Printer Assembly and Printer Module Door can be discarded. It will not be reinstalled.

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9. Unlock” the Dispenser Payment Terminal (DPT) by shifting the lock latch located behind the upper left-hand side of the module. Pull the latch to left (towards the left side of the dispenser) completely. Use the following pictures as a visual aid to help locate and unlock the latch.



Location of DPT Latch



Close up of latch in locked position

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Close up of latch in unlocked position

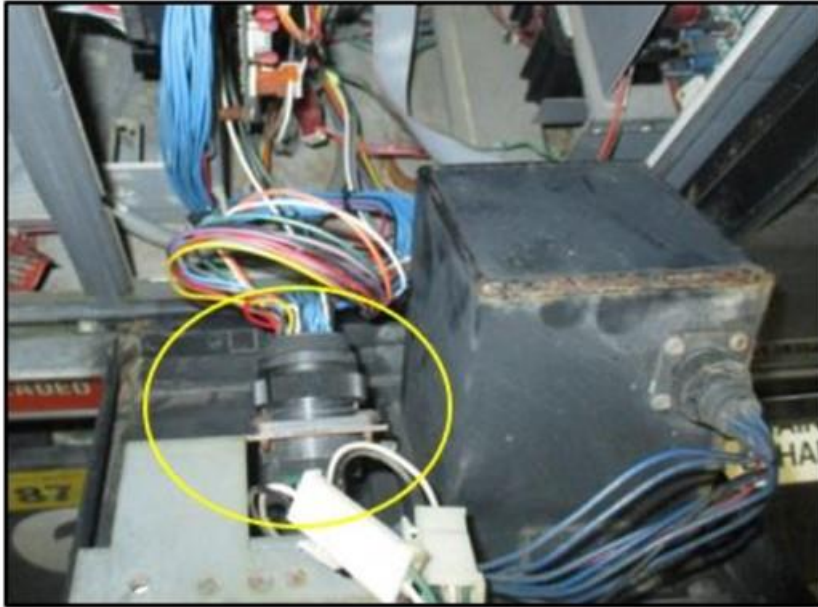
10. Lean the DPT Module forward.



DPT Module opened and leaning forward

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11. Unscrew the DPT Assembly connector (37-pin barrel) located on the rear of the DPT Module as well as any other cable assemblies that may be present on the module.

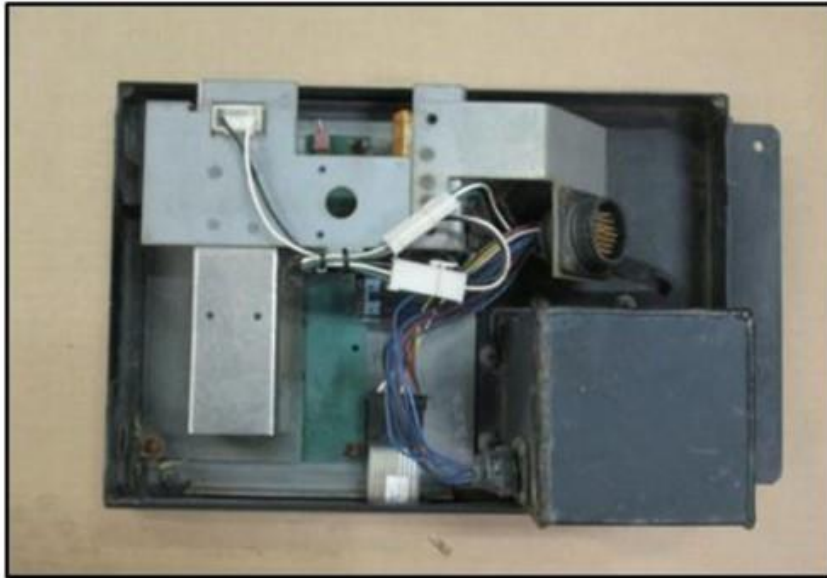


Location of 37-pin barrel connector

12. Remove the DPT Module by pulling it away from the dispenser. The DPT Module can be discarded. It will not be re-installed.

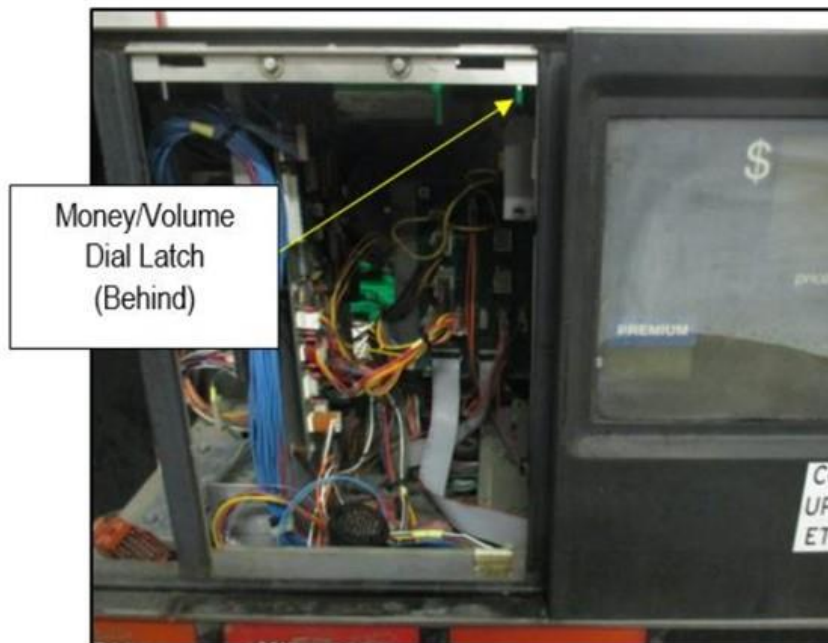


Dispenser after DPT Removal

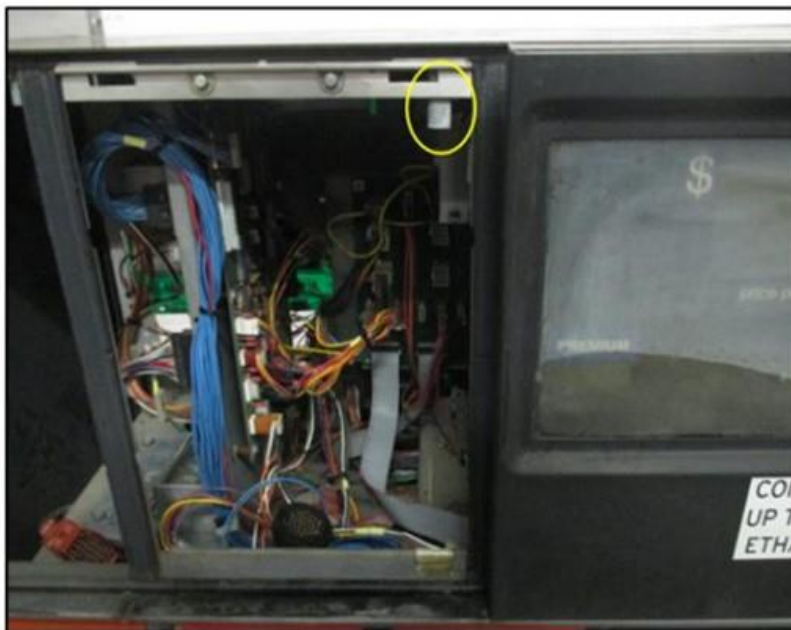
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DPT after removal

13. “Unlock” the Money/Volume Display Dial by pulling the lock latch to the left (towards the left-side of the dispenser) completely. The lock latch is located behind the upper left-hand side of the Money/Volume Display Dial. Use the following pictures as a visual aid to help locate and unlock the latch.



Location of Money/Volume Display latch in locked position

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Location of Money/Volume latch in unlocked position

14. Lower the Money/Volume Dial forward, lift it off of the track, and set it aside. Do not discard the Money/Volume Dial. It will be reused during the installation process.

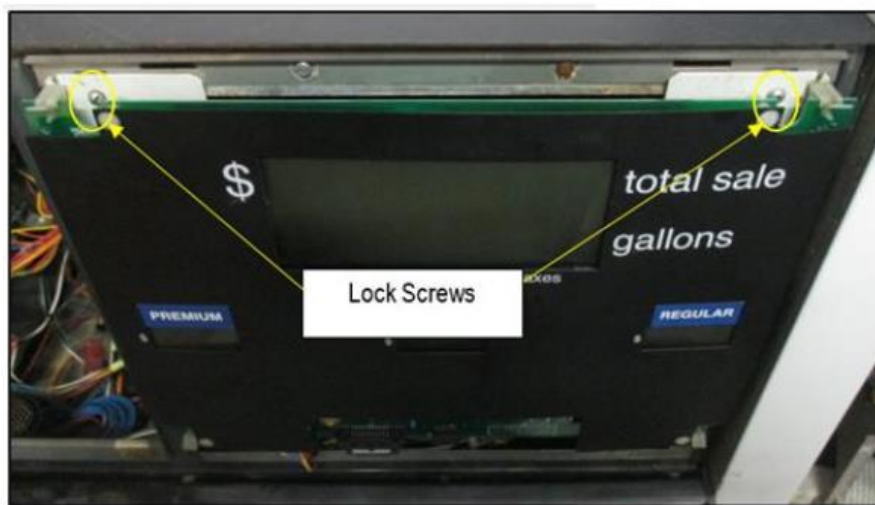


Money/Volume Dial opened

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Money/Volume Dial after removal

15. Loosen the two lock screws (some setups of dispensers use half-turn screws, others use full thread screws) that secure the Money/Volume Assembly to the dispenser face.



Location of Sales Volume Display screws

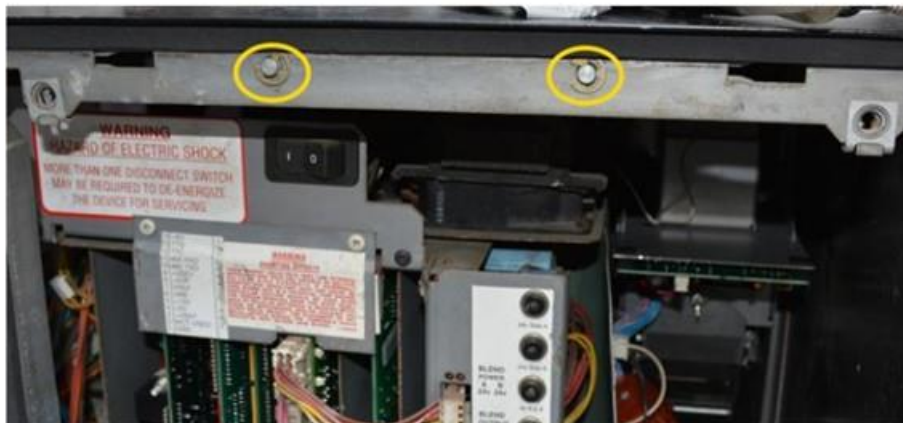
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16. Lower the Money/Volume Assembly by laying it forward completely.

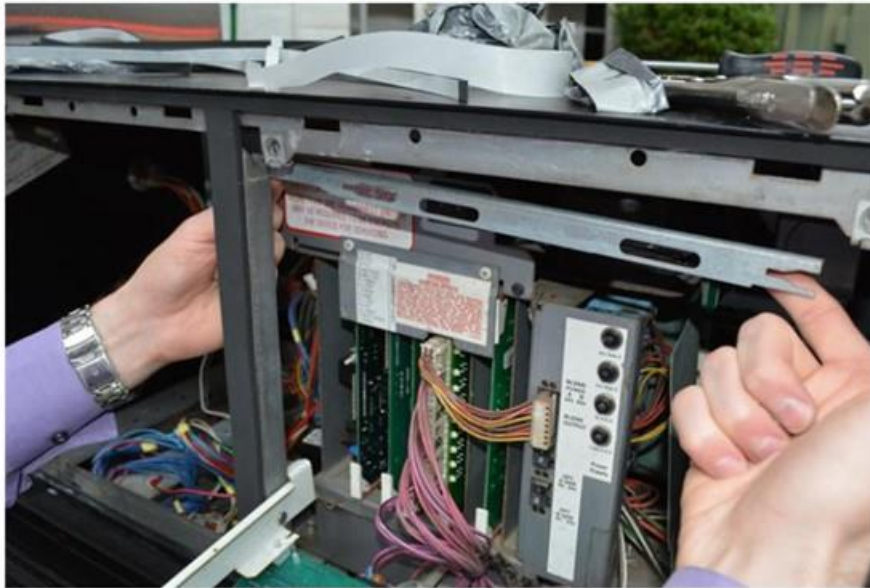


Money/Volume Display Assembly in fully forward position

17. Uninstall all the door slide latch retainer assemblies or Spacer Assemblies from the top of the dispenser frame.
- Remove the "E" clips from the Pivot Pins and retain. Push the Pivot Pins through and retain



- Uninstall the door slide latch retainer assembly.

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- c. Repeat steps a and b until all door slide latch retainer assembly and Spacer Assembly brackets are removed. the brackets and hardware that were installed where the G6-300 Panel will be installed can be discarded. The Latch Bracket and hardware for the Money Volume Display should be retained.



Components of Slide Latch Retainer Assembly

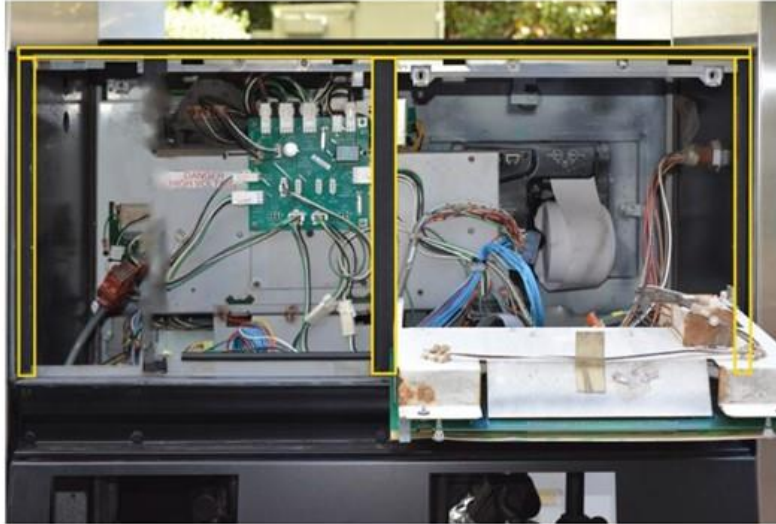


Note: Spacers and retainer clips may be present. Remove from the door.

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18. Remove the old cushion gasket material using a flat head screwdriver or similar tool to scrape away the old gasket material and remaining adhesive. a clean flat surface is necessary to install the new gasket.

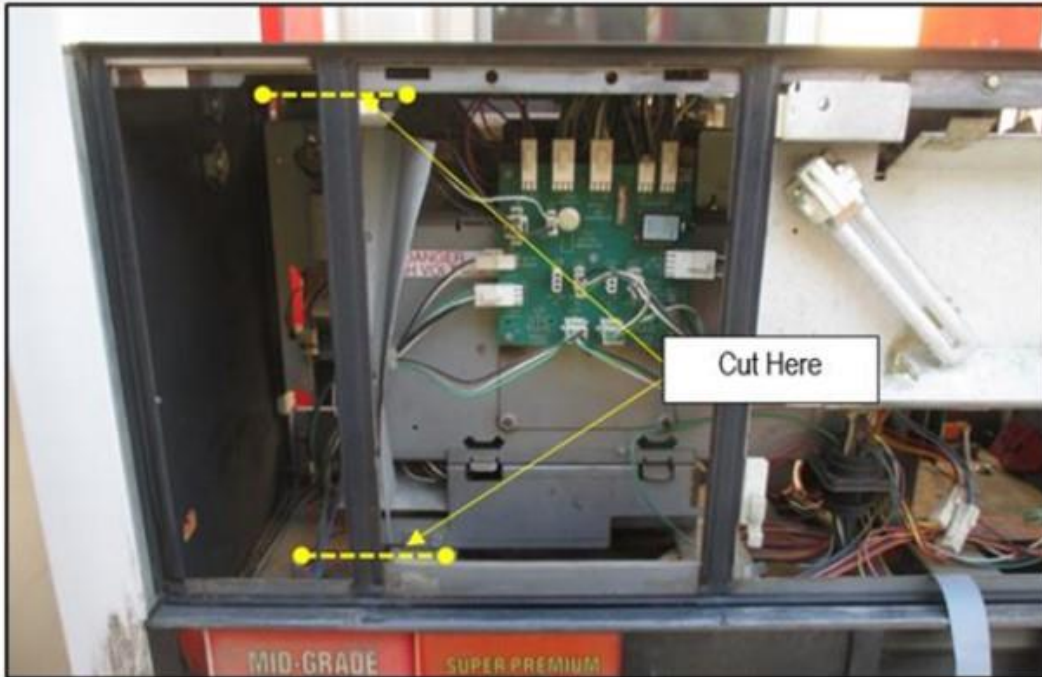
Note: All gasket and left-over adhesive material must be fully removed to ensure a clean installation surface for new gaskets during the installation procedure.



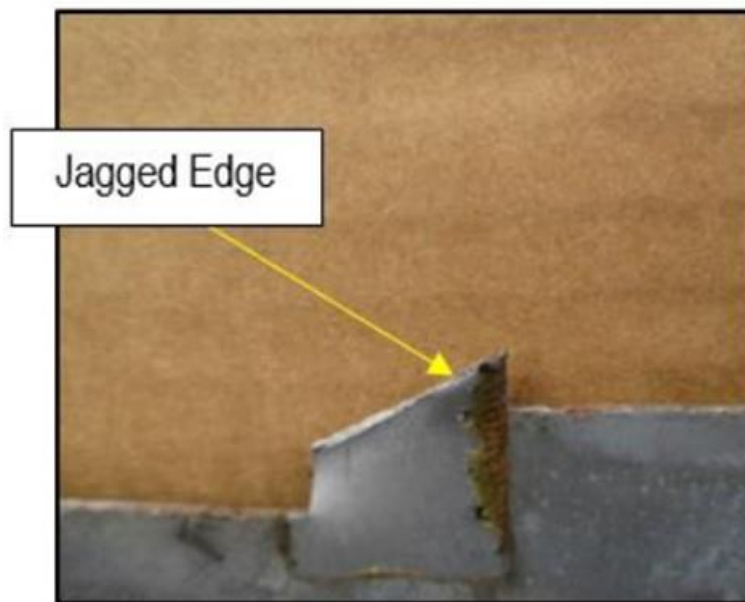
19. Using a pair of tin snips or sheet metal shears, cut away the left most cross brace on the Dispenser Electronics Cavity frame. The removed cross brace can be discarded.



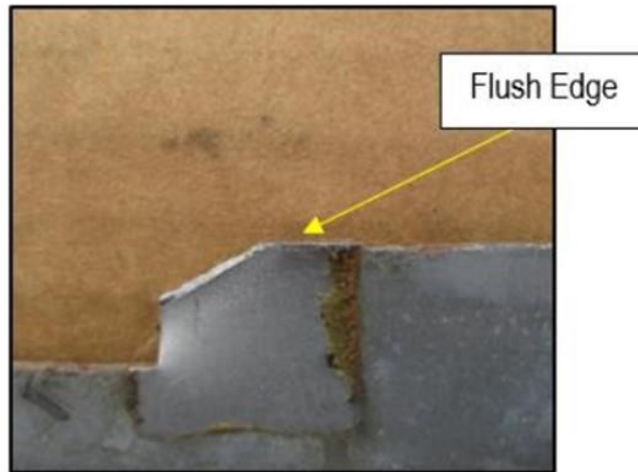
Warning: Working with sheet metal, especially after it has been cut, can be dangerous. Each cut made exposes sharp edges and creates burrs that can slice a finger. Wear safety gloves whenever possible. Make sure that the cut points are as flush as possible to the top and bottom of the Dispenser Electronics Cavity frame. Do not leave a jagged edge or toothed cut.

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Cut locations on the left cross brace Dispenser Electronics Cavity Frame



Example of an UNACCEPTABLE CUT

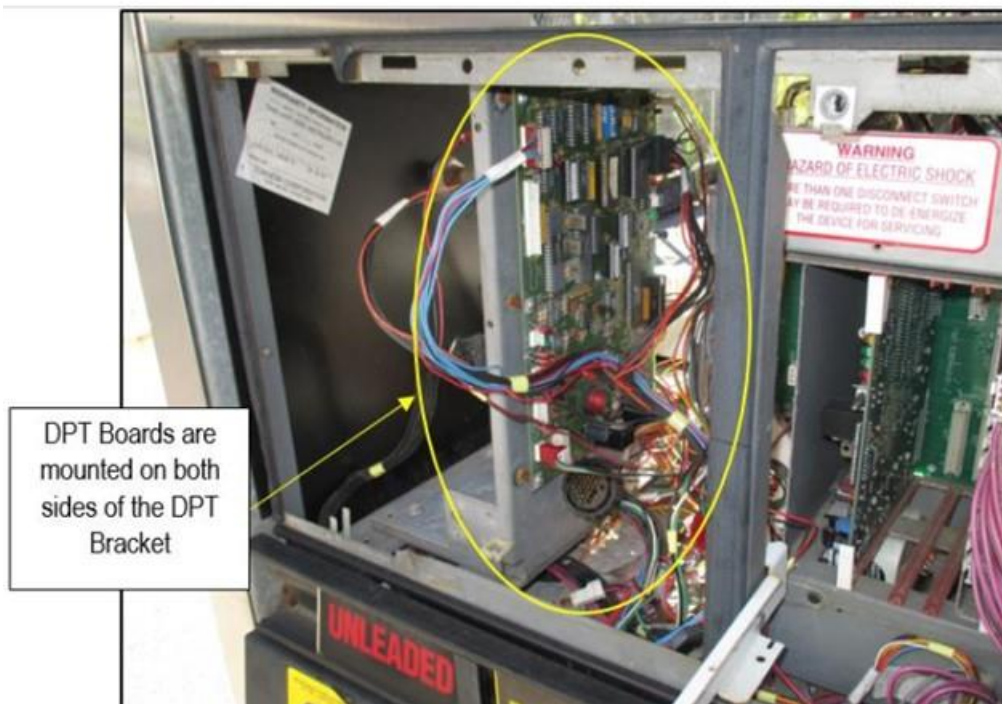
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Example of an ACCEPTABLE CUT

20. Repeat **steps 4 – 19** for Side B of the dispenser

Note: Perform this step if Side B is present. Otherwise, proceed to **step 21**.

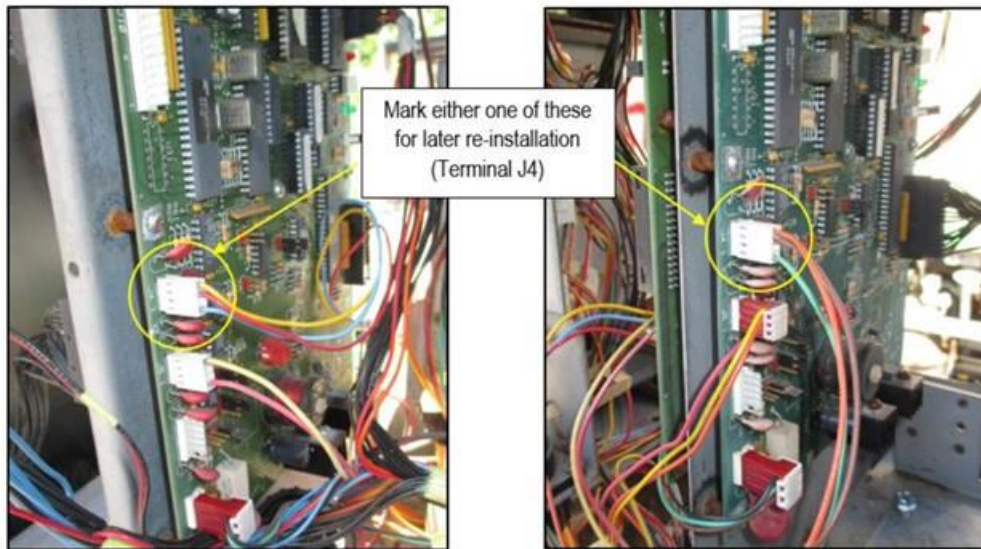
21. Locate the DPT Boards. Both are located behind the Printer Module Door and DPT Module (on Side-A of the dispenser) and behind the Money/Volume Display Module (on Side-B of the Dispenser)



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22. Mark the Dispenser Communications wire assembly to easily identify it later during the Installation Procedure.

Connected on terminal J4, and the Dispenser Communications wiring assemblies are color coded Yellow, Red, and Blue for Side-A and Orange, Brown, and Green for Side-B. Either connection can be marked.



Dispenser comm wires for Side A (left) and Side B (right)

23. Including the marked Dispenser Communications wire assembly, unplug every cable assembly attached to the DPT board on both sides of the bracket (if present). Remove wires from any wire restraints to ensure easy removal of the bracket in the following steps.



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 either remove these cables or position them inside of the dispenser cavity in such a way as to not cause obstruction.

24. Remove the four 3/8" bolts that are securing the bracket to the dispenser frame. Set aside for later in the installation.

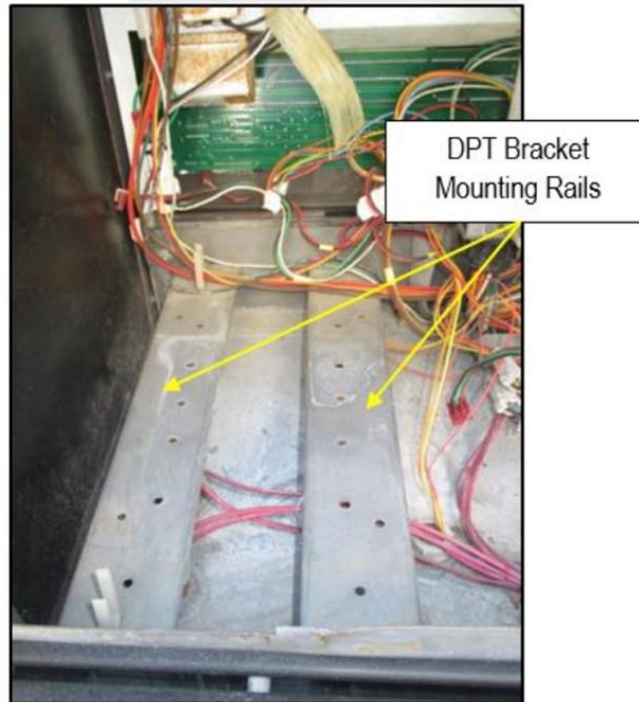
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Location of 3/8" bolts on DPT Bracket

25. Remove the DPT bracket with the DPT boards attached to it. The bracket and boards can be discarded. Do not discard hardware.



Removing the DPT Bracket and Boards

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26. The Narrow Frame Disassembly Procedure is complete. The dispenser is now ready for the installation of the Retrofit Kit. Proceed to section 4.2.2. for the Narrow Frame installation instructions.

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4.2 Installation Procedure

This section provides information on the installation of the G6-300 Tokheim Premier B Outdoor Payment Terminal (OPT). The following topics are discussed (start from the appropriate section according to the dispenser type):

4.2.1 Wide Frame Disassembly


4.2.2 Narrow Frame Disassembly

4.2.1 Wide Frame Assembly

This section follows from the "Wide Frame Disassembly" procedure in Section 4.1.1, and assumes the pump is still open and that Disassembly is complete.

1. Acquire the PSU mounting adaptor bracket (MP1181) and fit on to the PSU (Power Supply Unit) plate assembly (EZ0631) with the two MS0147 screws:

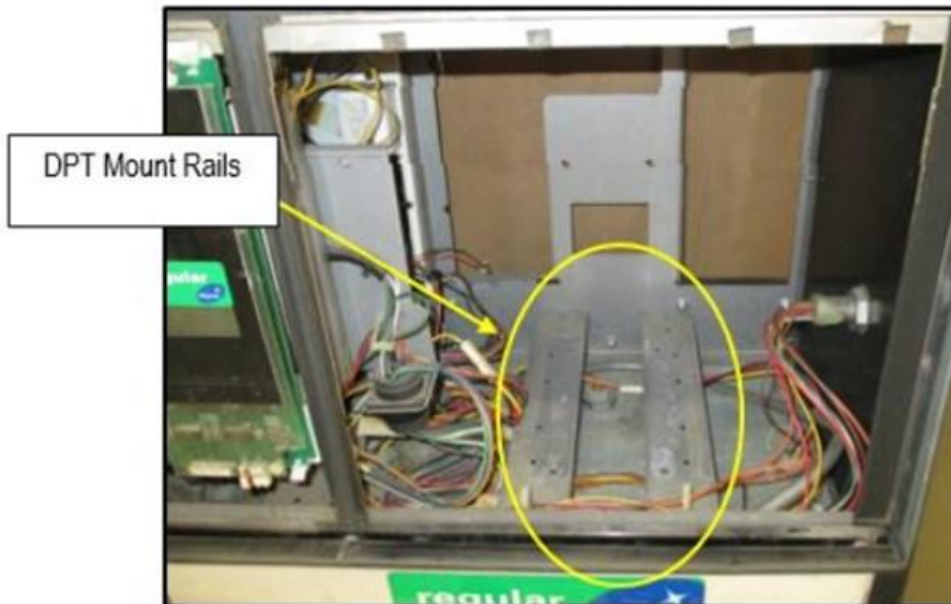


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	Date Released	May 2022
	Revision Number/Security level	R02 S2
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2. Install the Dispenser InvencoLinkI (RF00033-XX) onto the side A PSU bracket using the InvencoLink Kit installation Instructions.
 - a. Install the InvencoLink on one of the EZ0631 Power Supply Assembly Brackets. This bracket will now become the Side A PSU bracket. Follow the InvencoLink Installation Instructions (DCV-00465). Acquire the InvencoLink Retrofit Kit, UL Listed by Report Retrofit kit part number RF00033-XX. The second power supply bracket with no InvencoLink is now the Side B universal Power Supply Bracket
3. Identify the mounting locations “Premier B” on the Power Supply Assembly bracket

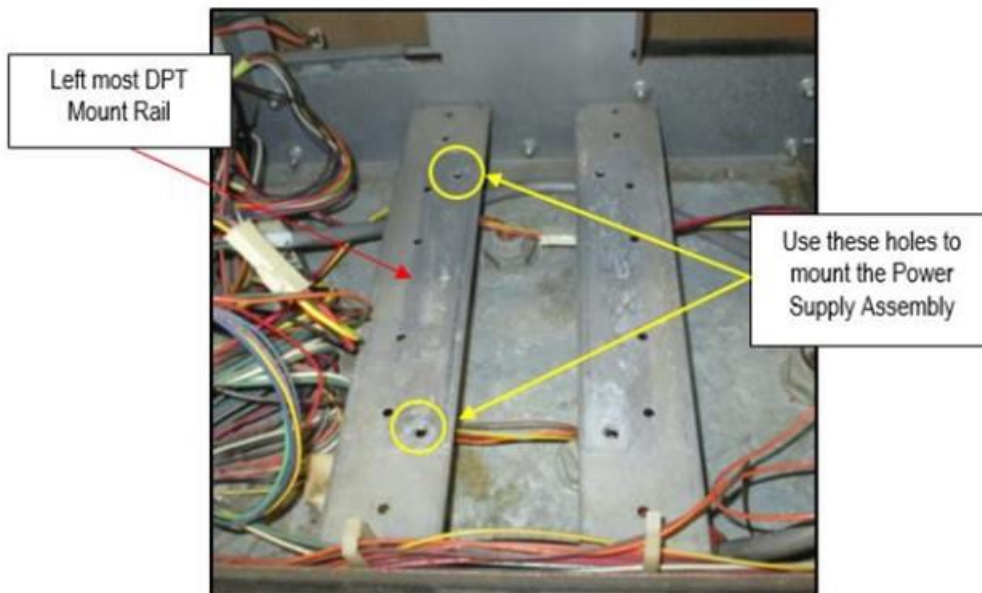


4. Identify the DPT Mount Rails on the right-hand side of Electronics Enclosure (where the DPT Slide Support bracket was removed in **step 19** of the Wide Frame Disassembly Procedure). Use both side slots, not the vertical slot.

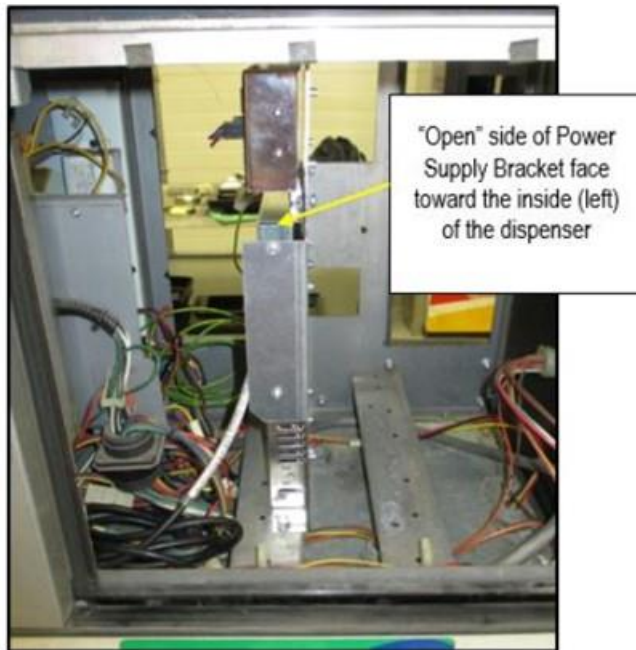
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Location of the DPT Mount Rails as viewed from Side-B

5. Insert the Power Supply Bracket vertically onto the left most DPT Mount Rail as shown.

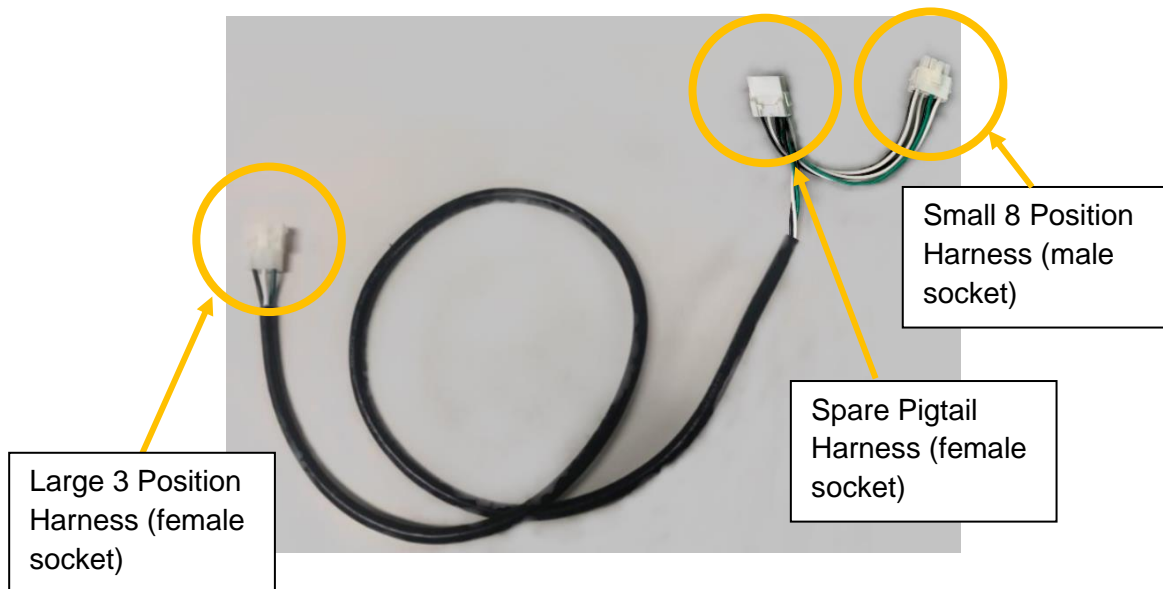


Identifying the DPT Mount Rail and mounting holes

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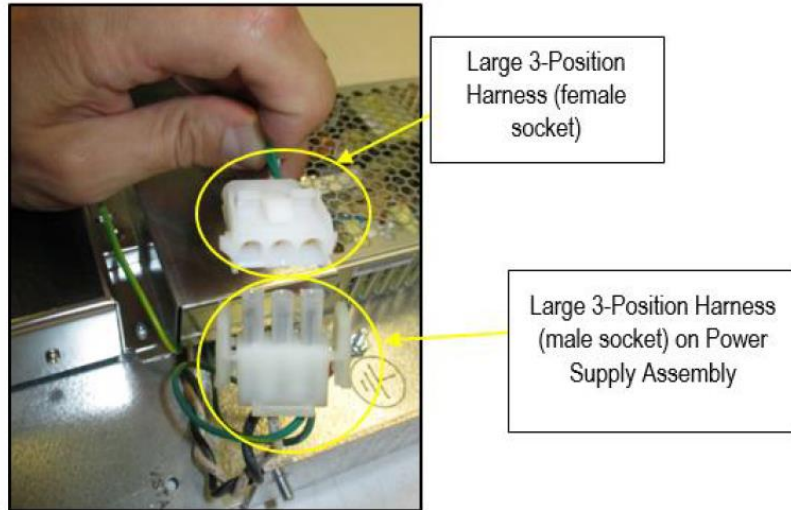
Power Supply Assembly after installation on the Electronics Mount Rail

6. Using a 3/8" socket, install the PSU bracket using the retained screw bolts to secure the Power Supply Assembly to the Electronics Mount Rail. Repeat for the second side PSU.
7. Acquire the Tokheim A/C Wire Assembly (EK0206) from the kit.



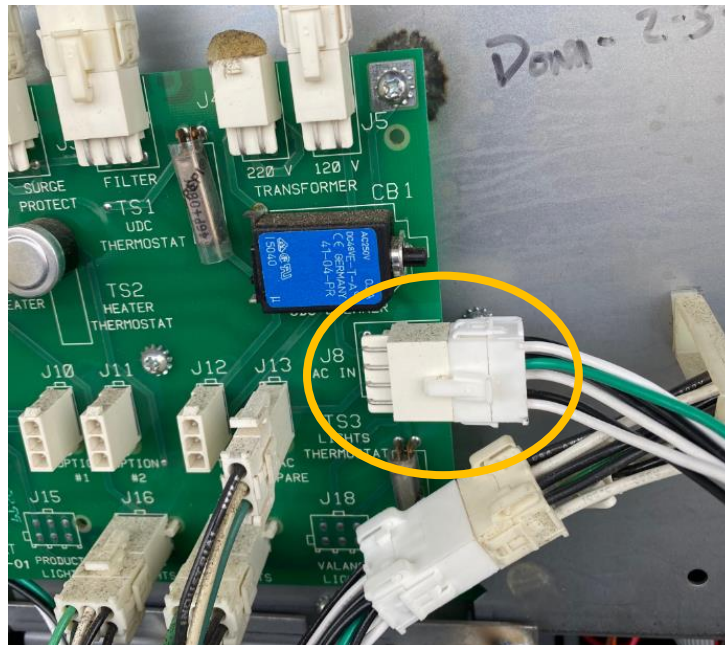
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8. Insert the large 3-Position Harness (female socket) of the A/C Wiring Assembly into the large 3-Position Harness (male socket) pigtail that is present on the Power Supply Assembly.

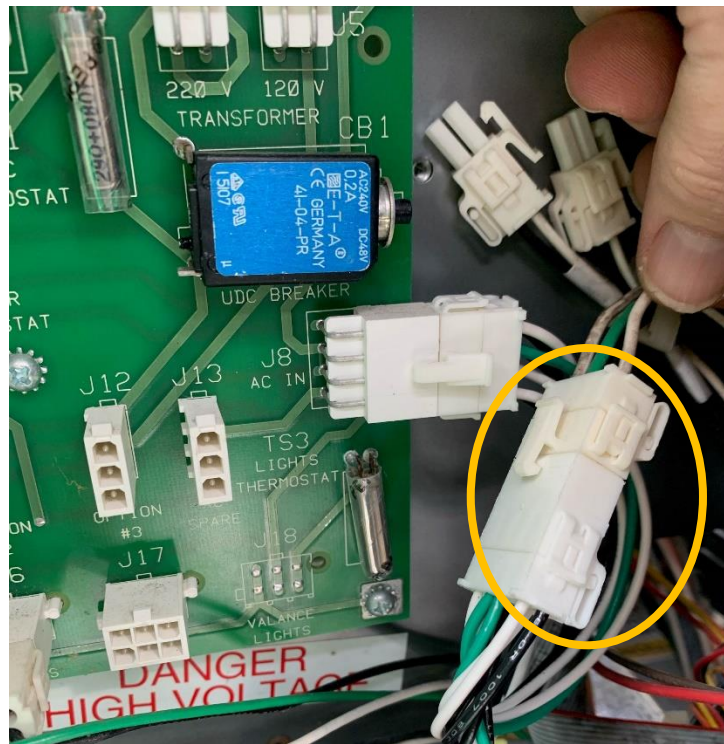


Plugging in the A/C Wiring Assembly to the Power Supply Assembly

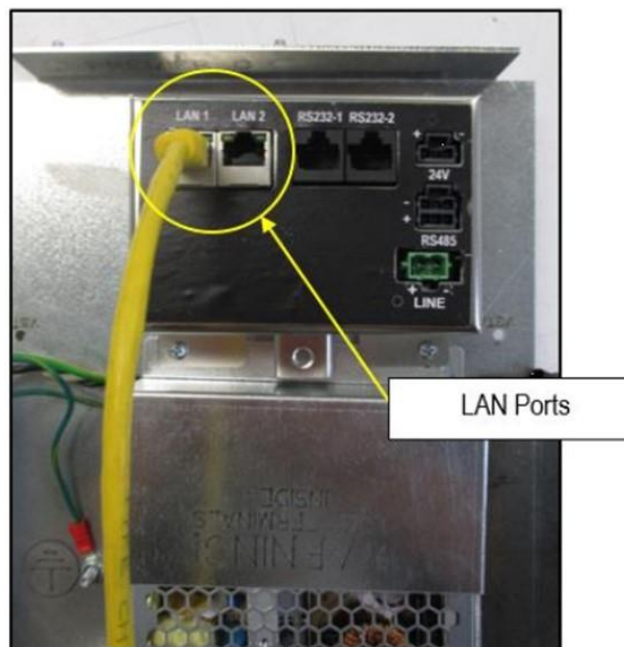
9. Locate the A/C Distribution Board (located on the B-Side of the Dispenser) and temporarily remove the existing dispenser input connector from the J8 connector. Plug the small 8-Position (male socket) end of the Tokheim A/C Wire Assembly (EK0206) into the J8 connector.



Plug the existing dispenser input connector (that was temporarily removed from J8) into the female pigtail harness on the Tokheim A/C Wire Assembly (EK0206).

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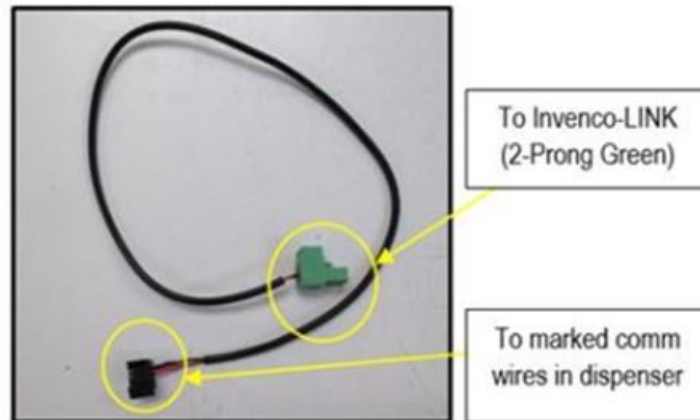
10. Acquire the Yellow Cat5e Network Cable (EK0131) and insert one end into the InvencoLink port labeled “LAN1” (“LAN2” for side B). Lay the excess cable inside of the Electronics Cavity.



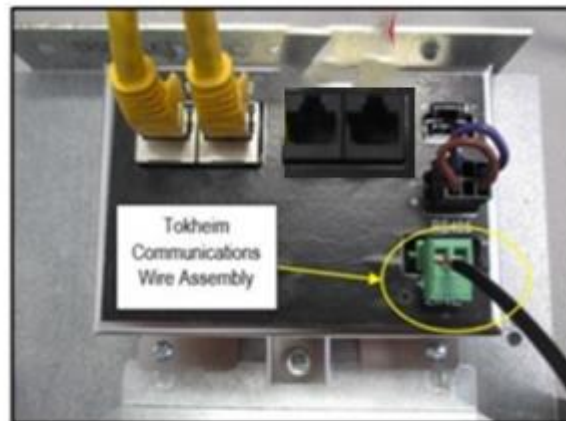
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11. Acquire the Tokheim Communications Wiring Assembly (EK0205). Install the Tokheim Communications Wiring Assembly to the green connector on the Dispenser InvencoLink.

Note: This procedure is only needed for Side A



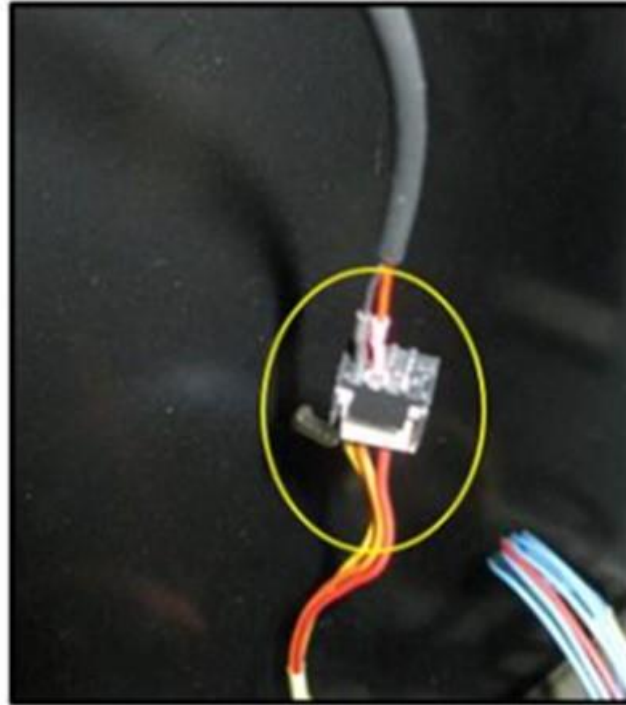
Tokheim Communications Wire Assembly



Tokheim Communications Wire Assembly plugged into Dispenser Cub

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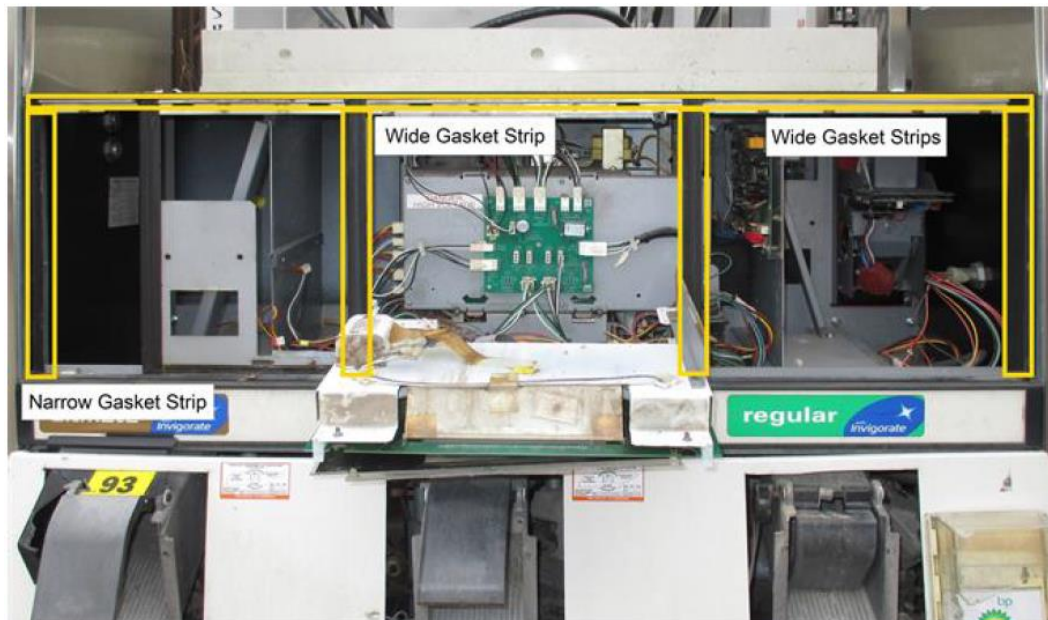
12. Insert the opposite end of the Tokheim Communications Wire Assembly and connect it to the dispenser communications wire assembly marked in the Disassemble Procedure. This procedure is only needed for Side A.



13. Acquire the Cushion Gasket Strip Set (IA0120) and install the Cushion Gasket to the pump body. Compare the thinnest 13-inch gaskets and install them accordingly.

Note: The thinnest 13-inch gasket and shorter top gasket will not be used.

- a. Install the gasket along the edges of the dispenser frame as indicated in the picture below. Start with the top gasket (the longer of the 2 longest gaskets). Install the rest of the gaskets so the top edges are flush with the bottom edge of the top gasket.

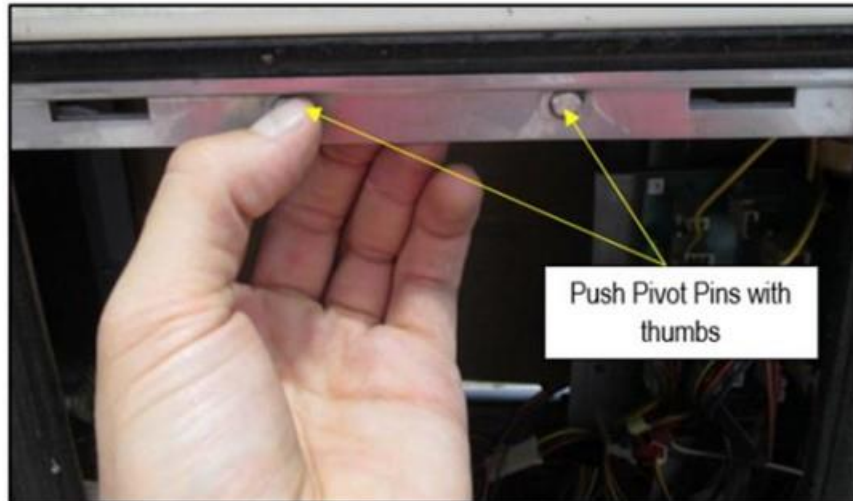
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14. Reinstall the Slide Latch Retainer Assembly to the Money/Volume Display location.
 - a. Identify the correct installation location. This should be where the Money/Volume Display is being reinstalled. The latch or spacers are not needed in the OPT location or the blank panel location.
 - b. Acquire the retained latch assembly.

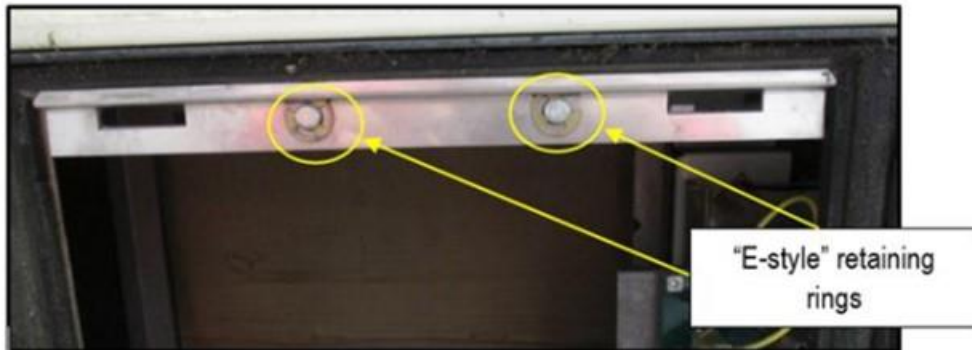


Components of Slide Latch Retainer Assembly

- c. Align the brackets on the dispenser and push through the retained pivot pins from the inside. Verify the latch is installed with the tab facing to the right

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- d. Reinstall the "E style" retaining rings to the pivot pins



- e. Verify the latch slides correctly and works properly.

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15. With the Lock Assembly in the unlocked position, insert the bottom lip of the G6-300 Panel Assembly (RP00036-XX) into the right-hand side of the Electronics Enclosure Support. Push the top of the G6-300 panel assembly (RP00036-XX) forward until it stops. Lock the door to keep it in its closed position.




Caution: To prevent any damage, make sure that ALL cable assemblies and wires are entirely inside of the Electronics Cavity before installing the G6-300 Panel Assembly (RP00036-XX) on to the Electronics Enclosure Support.

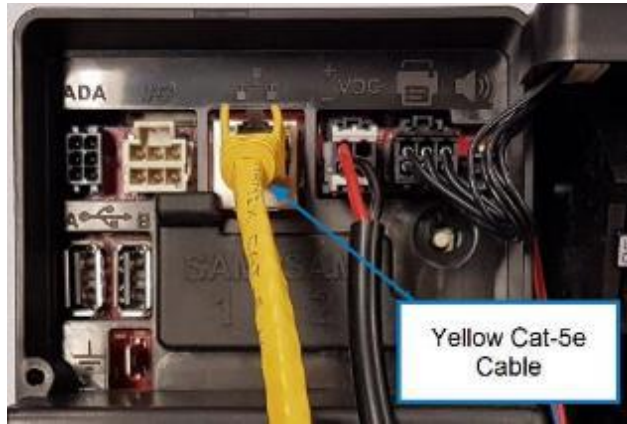


16. Using the supplied sub-door key, unlock and open the OPT sub-door.
17. Locate the low voltage DC cable that is pre-wired to the power supply assembly and plug it into the G6-300 OPT Terminal labeled “VDC.”



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18. Plug the open end of the EK0131 Yellow Cat5e Network Cable (the one that was plugged into terminal LAN1 for Side A; LAN2 for Side B) into the G6-300 OPT terminal labeled as 



25. Locate one of the Earth Ground Cables that arrived pre-wired to the Power Supply Assembly and attach the female spade terminal to the male spade stud on the G6-300 OPT.



26. Using a zip-tie, gather all cable assemblies attached to the G6-300 OPT unit, including the Earth Cable.

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27. Feed excess cabling into the electronics cavity so that the majority of the cables' slack will be placed inside of the Dispenser Head. Re-use any existing cable restraints that may be present. It may be necessary to use zip-ties or additional cable restraints to secure the loose wiring. **These must be provided by the installer.**
28. Re-fasten the Money/Volume Display Assembly to the Dispenser Frame



Money/Volume Display assembly re-fastened to Dispenser Frame

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29. Re-insert the bottom lip of the Money/Volume Dial into the Electronics Enclosure Support. Push the top of the dial forward until it stops. Reach inside the OPT sub door opening and pull the Lock Latch (the one that was pushed to unlock in the Disassembly Procedure) towards the right completely until the Money/Volume Dial is secured.




Reach behind dial and pull latch to secure Money/Volume Dial

30. Insert the bottom lip of the blank Options door into the left-hand side of the Electronics Enclosure Support. Push the top of the door forward until it stops and lock it using the TPX88 Key.
31. Shut the OPT sub-door and lock it using the supplied sub-door key.
32. Repeat for Side B.
Note: Perform this step if Side B is present. Otherwise, proceed to next step.

33. The Installation Procedure is now complete.



Caution: Double-check all wire connections to ensure proper placement and good connection before re-applying power. Local regulations may require that the installation is electrically tested and certified BEFORE switch-on. Make sure all local regulations are followed properly

	Document Number	DCV-00551
	Date Released	May 2022
	Revision Number/Security level	R02 S2
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Completed installation:



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4.2.2 Narrow Frame Installation

This section follows from the "Narrow Frame Disassembly" procedure in Section 4.1.2, and assumes the pump is still open and that Disassembly is complete.

1. Acquire the PSU mounting adaptor bracket (MP1181) and fit on to the PSU (Power Supply Unit) plate assembly (EZ0631) with the two MS0147 screws:



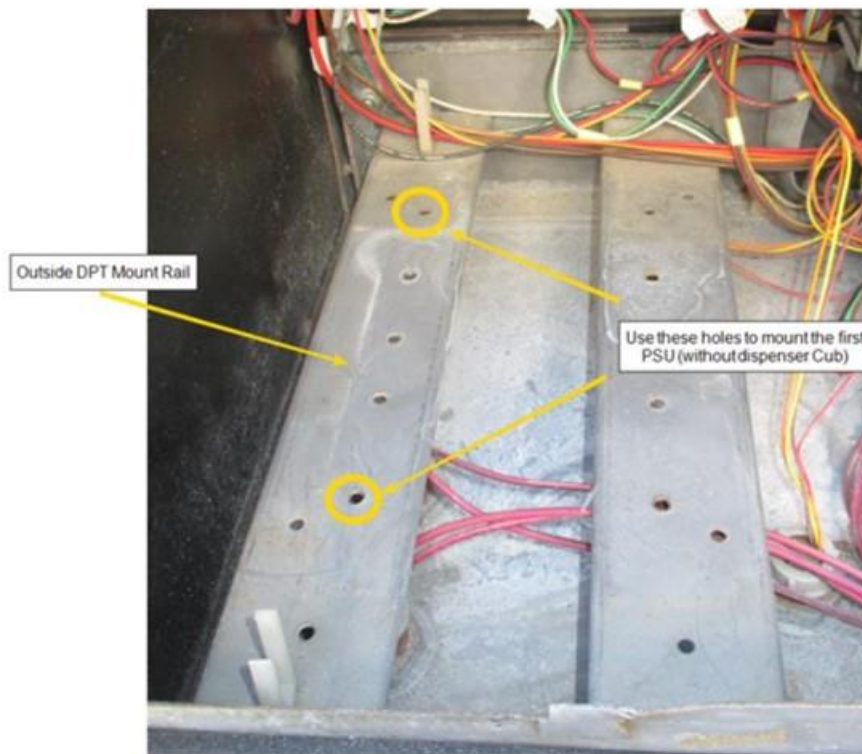
2. Install the Dispenser InvencoLink RF00033-XX onto the side A PSU bracket using the InvencoLink Kit installation Instructions.
 - a. Install the InvencoLink on one universal Power Supply Bracket. This bracket will now become the Side A PSU bracket. Follow the InvencoLink Installation Instructions (DCV-00465). Acquire the InvencoLink Retrofit Kit, UL Listed by Report Retrofit kit part number RF00033-XX. The second power supply bracket with no InvencoLink is now the Side B universal Power Supply Bracket.

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3. Identify the mounting locations “Premier B” on the Power Supply Assembly bracket



4. Facing Side-A, identify the outside DPT Mounting Rail (where the DPT Support bracket was removed). Using a 3/8” socket, insert the retained mounting bolts about halfway into the designated holes as shown.

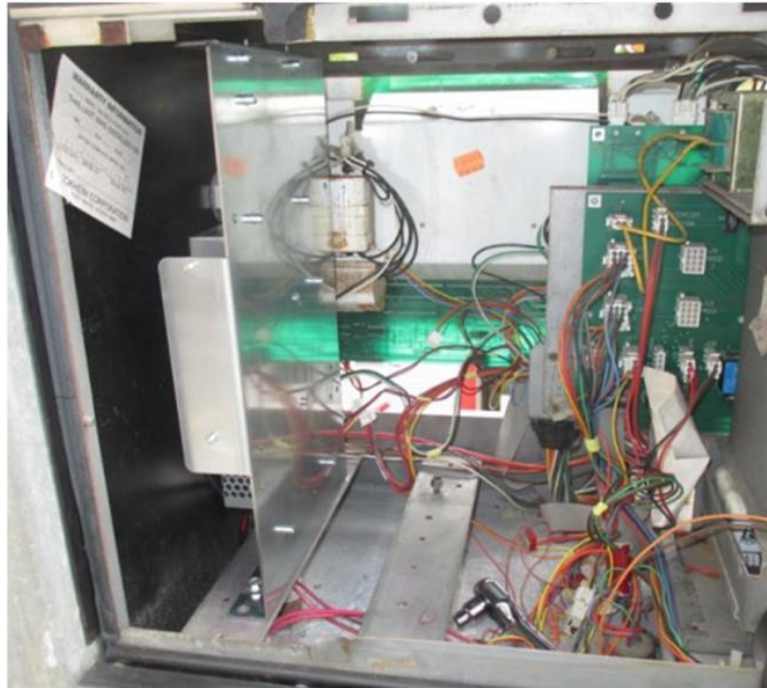


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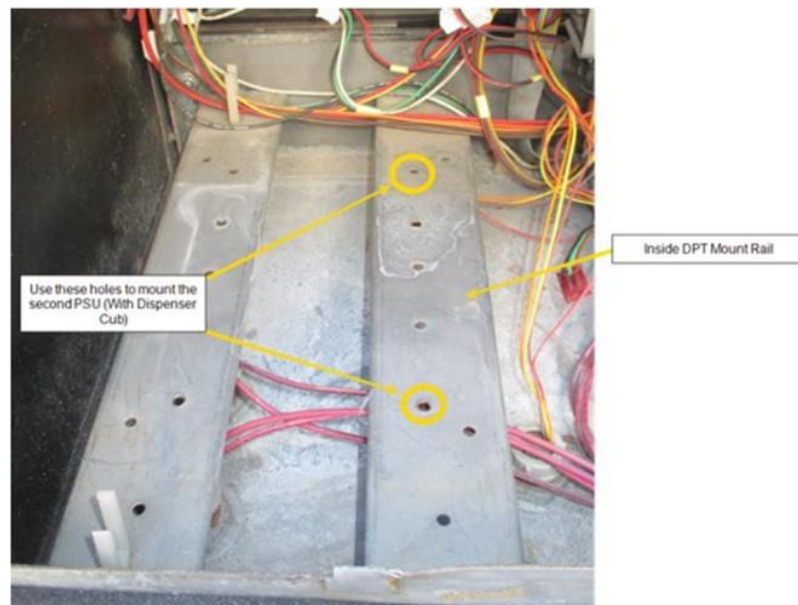
5. Insert the first PSU (without InvencoLink unit) Premier B mounting slot as shown (facing towards the outside of the dispenser) and swing it into position. Use the vertical slot, not the side slot.



Note: First PSU in final position facing towards outside of dispenser

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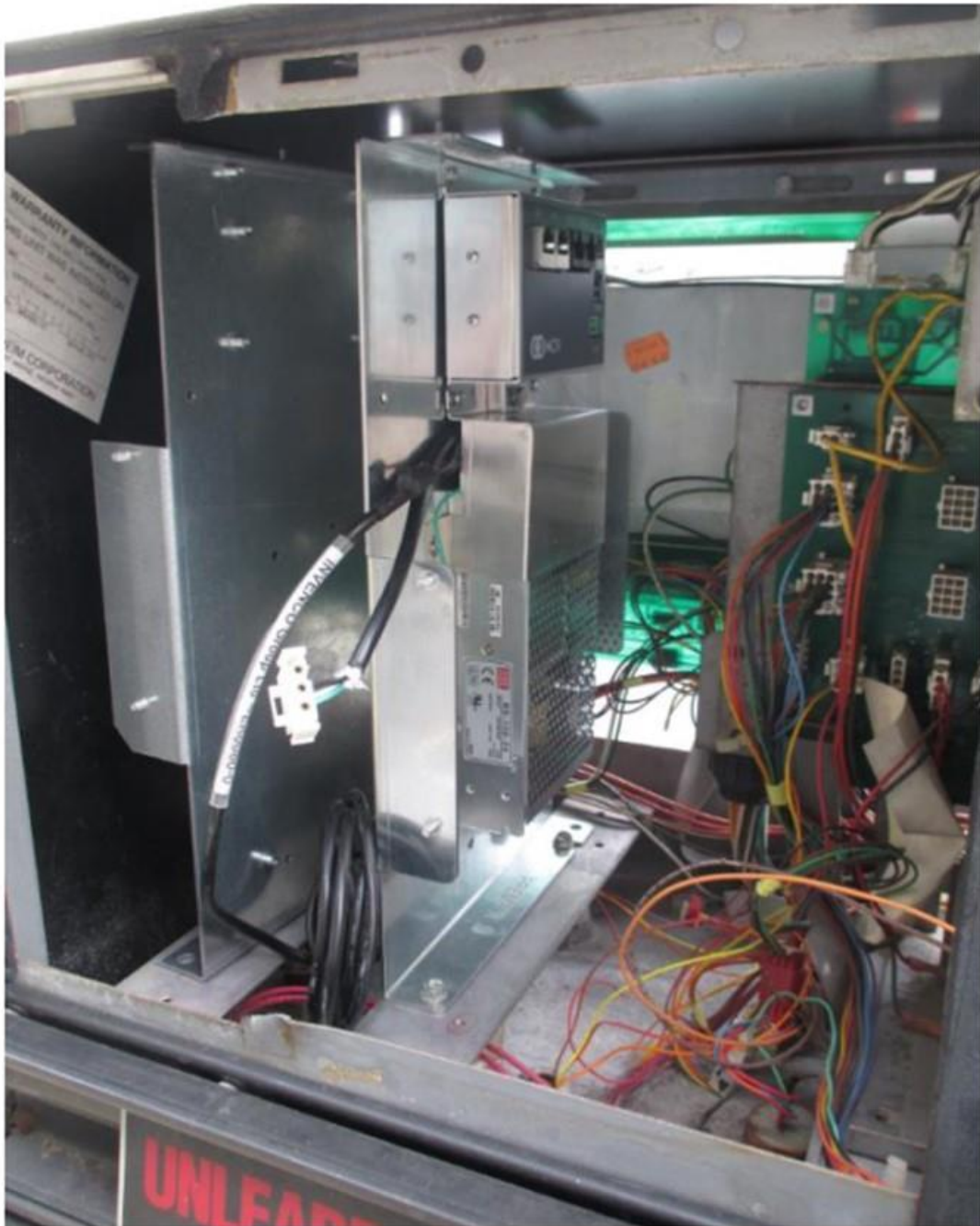
6. Fasten the retained mounting screws to secure the PSU to the Electronics Mount Rail.
7. Identify the inside DPT Mounting Rail. Using a 3/8" socket, insert the retained #14-10 x 1/2" (2) self-tapping mounting screws about halfway into the designated holes as shown.



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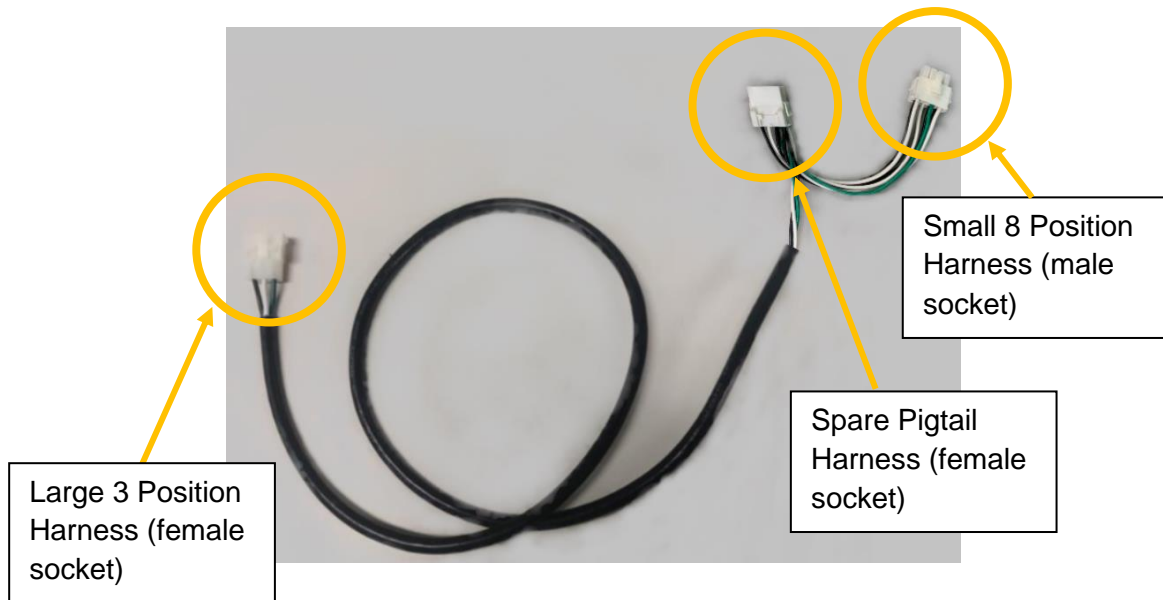
8. Insert the second PSU (with dispenser InvencoLink) in the same manner as the first PSU except facing towards the inside of the dispenser. Use the vertical slot, not the side slot.

Note: Second PSU in final position facing towards inside of the dispenser

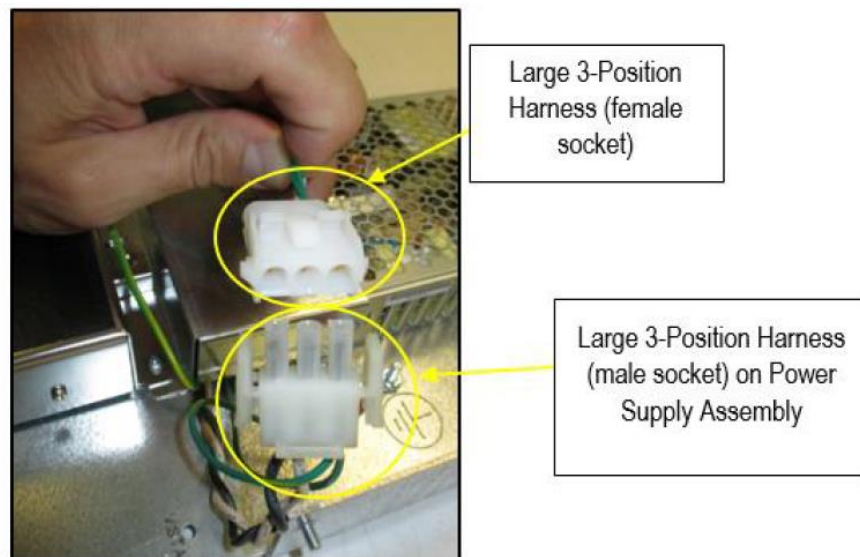


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9. Fasten the retained mounting screws to secure the PSU to the Electronics Mount Rail.
10. Acquire the Tokheim A/C Wire Assembly (EK0206) from the kit.



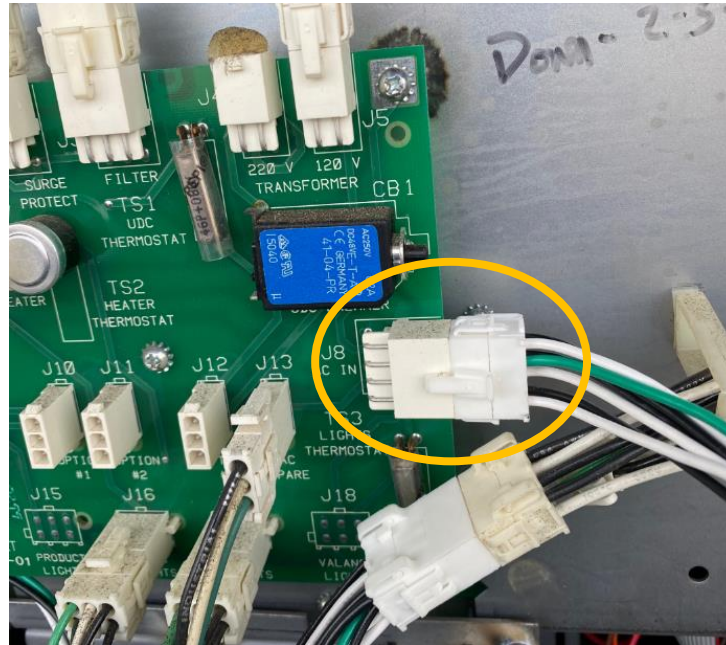
11. Insert the large 3-Position Harness (female socket) of the A/C Wiring Assembly (EK0206) into the large 3-Position Harness (male socket) pigtail that is present on the Power Supply Assembly.



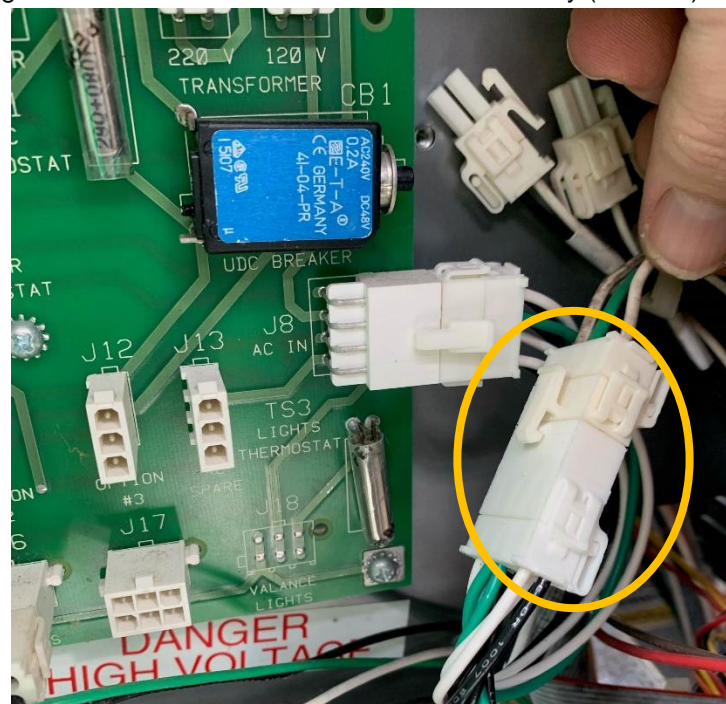
Plugging in the A/C Wiring Assembly to the Power Supply Assembly

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12. Locate the A/C Distribution Board (located on the B-Side of the Dispenser) and temporarily remove the existing dispenser input connector from the J8 connector. Plug the Large 8-Position (male socket) end of the Tokheim A/C Wire Assembly (EK0206) into the J8 connector.

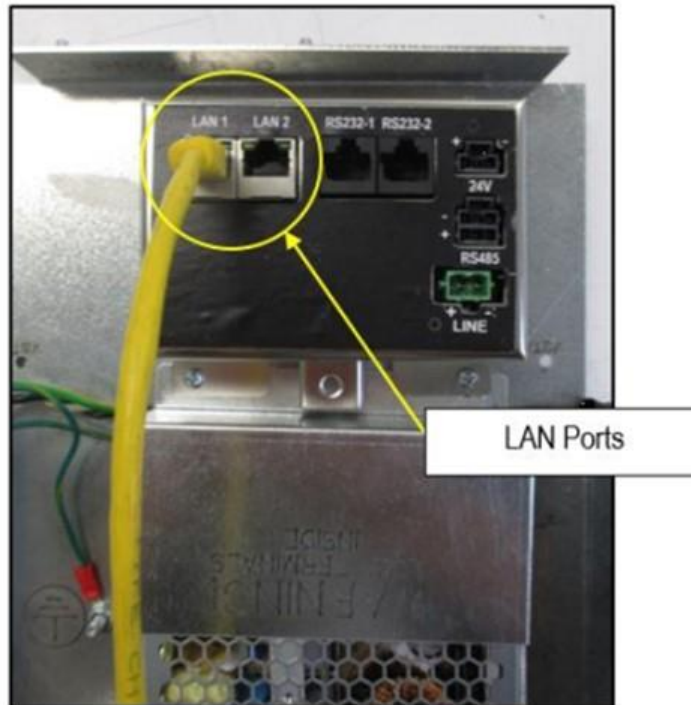


13. Plug the existing dispenser input connector (that was temporarily removed from J8) into the female pigtail harness on the Tokheim A/C Wire Assembly (EK0206).



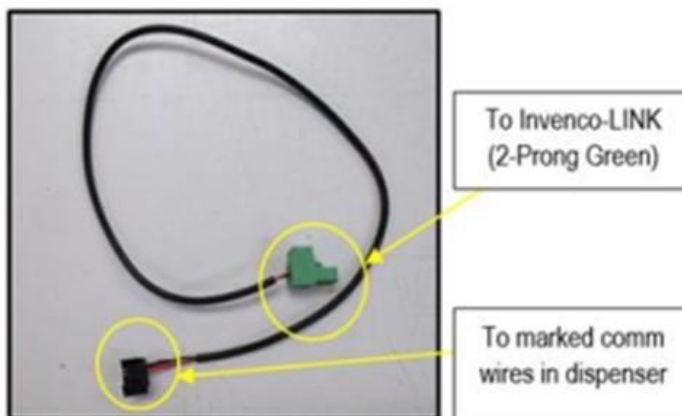
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14. Acquire the Yellow Cat5e Network Cable (EK0131) and insert one end into the Optic Dispenser InvencoLink Kit port labeled “LAN1” (“LAN2” for Side B).

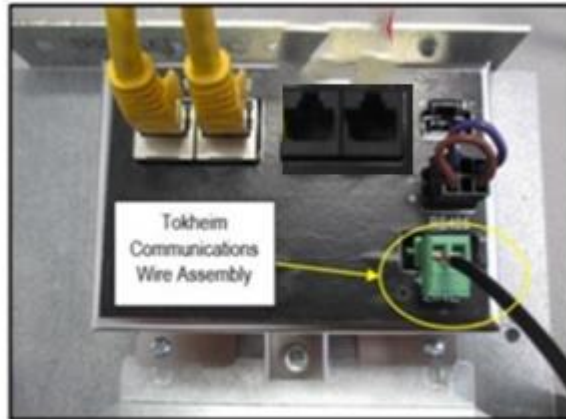


Installing the network cable into the LAN port on Optic Dispenser Cub Kit

15. Acquire the Tokheim Communications Wiring Assembly (EK0205). Install the Tokheim Communications Wiring Assembly to the green connector on the Dispenser InvencoLink.
Note: This procedure is only needed for Side A

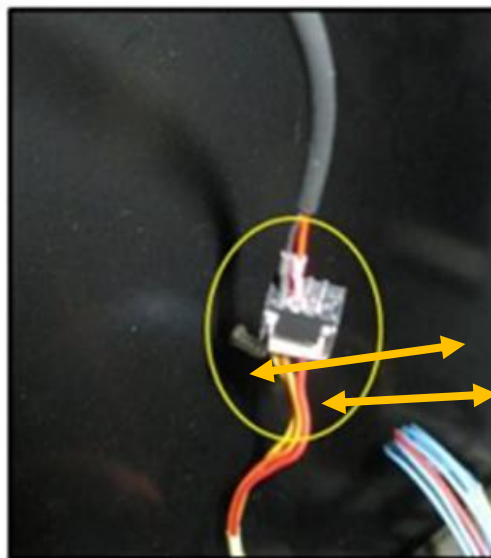


Tokheim Communications Wire Assembly

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Tokheim Communications Wire Assembly plugged into Dispenser Cub

16. Insert the opposite end of the Tokheim Communications Wire Assembly and connect it to the dispenser communications wire assembly marked in the Disassembly Procedure. This procedure is only needed for Side A



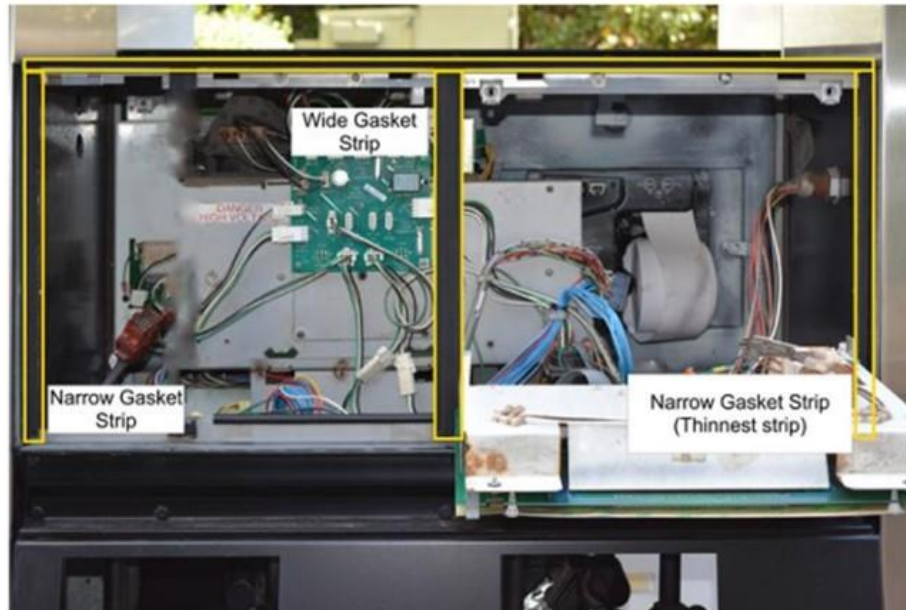
17. Acquire the Cushion Gasket Strip Set (IA0120) and install the Cushion Gasket to the pump body. Compare the thin 13 inch gaskets and install them accordingly.



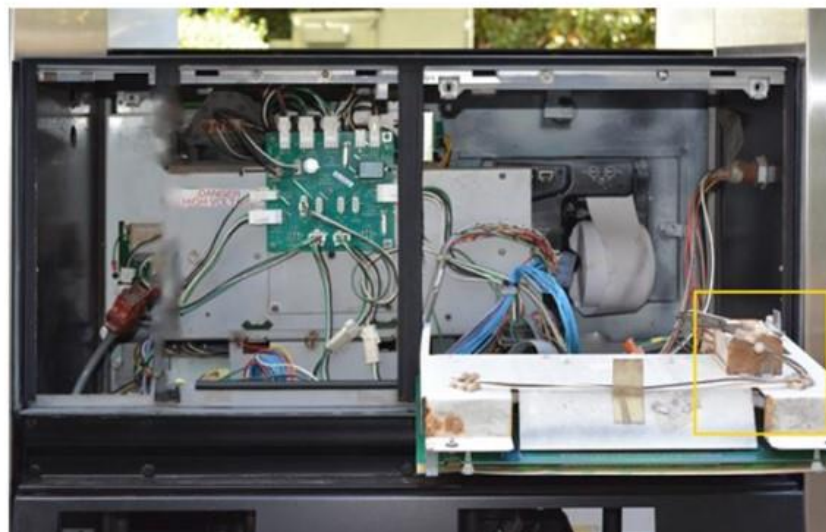
Note: 2 of the Widest 13 inch gaskets and longer top gasket will not be used.

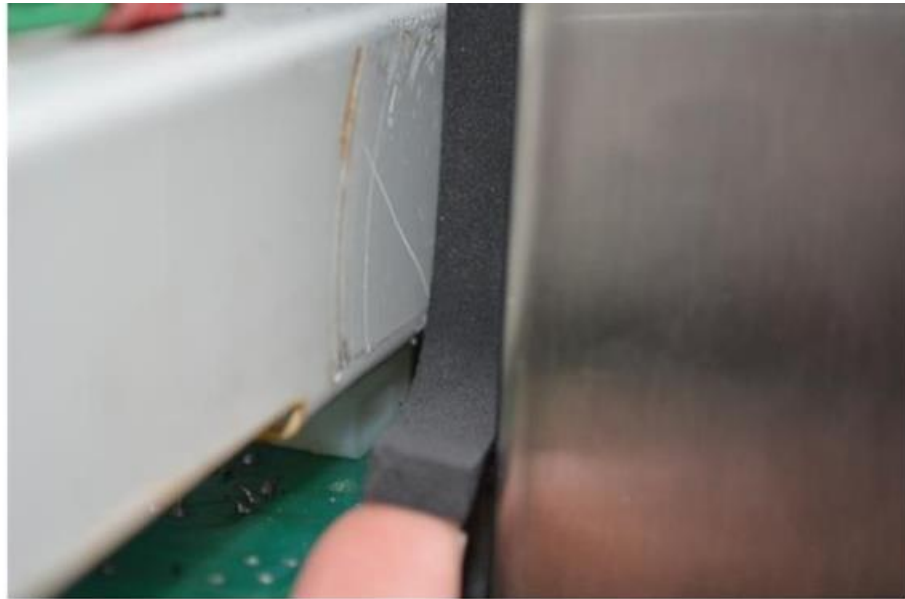
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- a. Install the gasket along the edges of the dispenser frame as indicated in the picture below. Start with the top gasket (the shorter of the 2 longest gaskets). Install the rest of the gaskets so the top edges are flush with the bottom edge of the top gasket. Install the thinnest to the right, Wide in the center, and Medium to the left.



- b. When installing the thinnest right-side gasket, slightly lift up the customer display dial to make sure the bottom section of the gasket fits correctly.



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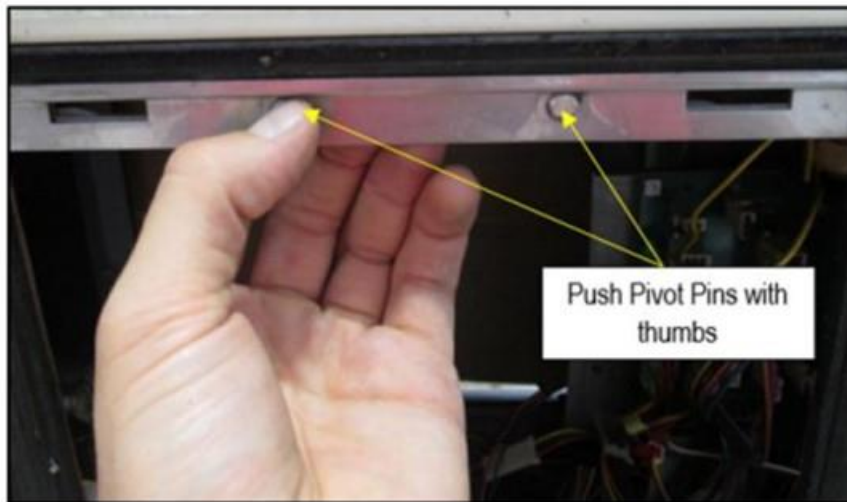
19. Reinstall the Slide Latch Retainer Assembly for the Money/Volume Display.
- Identify the correct installation location. This should be where the Money/Volume Display is being reinstalled. The latch or spacers are not needed in the OPT location.
 - Acquire the retained latch assembly



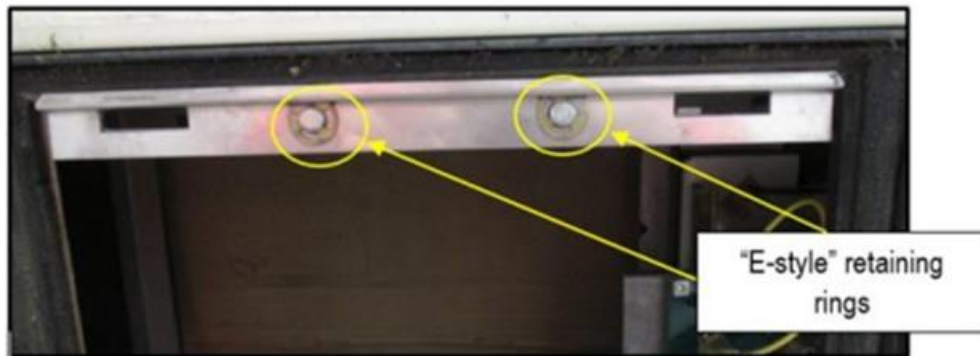
Components of Slide Latch Retainer Assembly

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- c. Align the brackets on the dispenser and push through the retained pivot pins from the inside. Verify the latch is installed with the tab facing to the left.



- d. Reinstall the "E style" retaining rings.




- e. Verify the latch slides correctly and works properly.

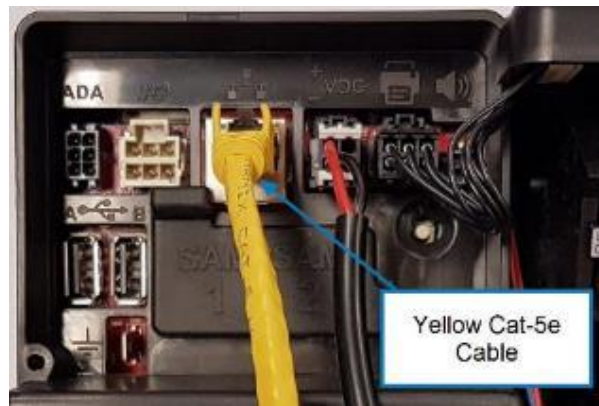
23. With the Lock Assembly in the unlocked position, insert the bottom lip of the G6-300 Panel Assembly (RP00036-XX) into the left-hand side of the Electronics Enclosure Support. Push the top of the G6-300 Panel assembly (RP00036-XX) forward until it stops. Lock the assembly to keep it in its closed position.

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24. Using the supplied sub-door key, unlock and open the OPT sub-door.
25. Locate the low voltage DC cable that is pre-wired to the Power Supply and plug it into the G6-300 OPT Terminal labeled "VDC".



26. Plug the open end of the EK0131 Yellow Cat5e Network Cable (the one that was plugged into terminal LAN1 for Side A; LAN2 for Side B) into the G6-300 OPT terminal labeled as 

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27. Locate one of the Earth Ground Cables that arrived pre-wired to the EZ0631 Power Supply Assembly and attach the female spade terminal to the male spade stud on the G6-300 OPT.



28. Using a zip-tie, gather all cable assemblies attached to the G6-300 OPT unit, including the Earth Cable.



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29. Feed excess cabling into the electronics cavity so that the majority of the cables' slack will be fastened to the inside of the Dispenser Head. Re-use any existing cable restraints that may be present. It may be necessary to use zip-ties or additional cable restraints to secure the loose wiring. **These must be provided by the installer.**
30. Re-fasten the Money/Volume Display Assembly to the Dispenser Frame.



Money/Volume Display assembly re-fastened to Dispenser Frame

31. Re-insert the bottom lip of the Money/Volume Dial into the Electronics Enclosure Support. Push the top of the dial forward until it stops. Reach inside the OPT subdoor opening and pull the Lock Latch (the one that was pushed to unlock the dial in the Disassembly Procedure) towards the left completely until the Money/Volume Dial is secured.



Reach behind dial and pull latch to secure Money/Volume Dial

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32. Shut the OPT sub-door and lock it using the supplied sub-door key.

33. Repeat for Side B.



Note: Perform this step if Side B is present. Otherwise, proceed to next step.


34. The Installation Procedure is now complete.



Caution: Double-check all wire connections to ensure proper placement and good connection before re-applying power. Local regulations may require that the installation is electrically tested and certified BEFORE switch-on. Make sure all local regulations are followed properly.

Completed installation:



	Document Number	DCV-00551
	Date Released	May 2022
	Revision Number/Security level	R02 S2
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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):

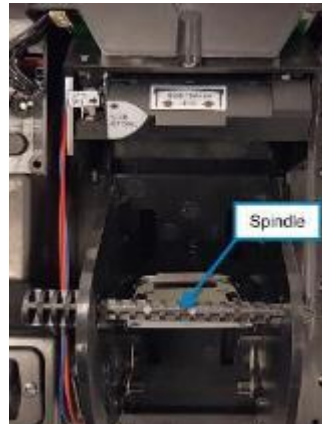




If the terminal is successful in connecting to the LAN it will display the following screen and the rest of the start-up sequence will continue:







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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>	