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Retrofit G6-300 + InvencoLink Tokheim Premier C (US) Installation Guide

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Kit Part Number: RF00037-XX



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Release History

Version	Prepared by	Date	Change description
0	Jojie Adigue	Apr 2022	Initial release based on 497-0513403 B with spacer on the panel and new lock/latch fitted in the panel assembly
1	Michael Doh	May 2022	Addressed UL comments
2	Michael Doh	May 2022	Corrected AC 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.

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.

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

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
- Assorted Hex Sockets or Nut Drivers – 5/16" (thin walled), 7/16" and 7/8"
- Side Cutters or Wire Cutters
- Needle-Nosed Pliers



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:



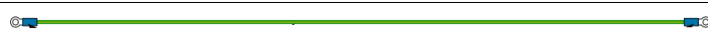
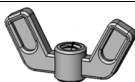


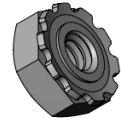
- Cable Restraints or Zip Ties
- Cloth Rags
- All-Purpose Lubricant
- Heavy Duty Rust Penetrator
- Rubber Mallet

1.3 Installation Kit Contents

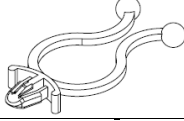


Unpack the Retro-Fit Kit (**RF00037-XX**) and check that all the parts listed below are present.

Part Number	Qty	Description	Photo Reference
RP00037-XX	1	Tokheim Premier C G6-300 OPT panel assembly	
EK0131	1	Cat5e Network Cable	

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EK0205	1	Tokheim Communications Wiring Assembly (One per dispenser)	
EK0206	1	Tokheim A/C Wiring Assembly	
EK0133	1	Ground cable	
MN0080	2	Wing Nuts (Wide Only)	
EZ0631	1	Power Supply Assembly	
MP1181	1	BRACKET, ADAPTOR, PSU PLATE, G6	
MN0076	24 (only 12 are used, rest are spare)	Panel Attachment Nuts NUT, 6-32, KEP LOCK, ZN	

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MF0040	4 (spare, can use to tidy up cabling)	Cables tie insert	
MS0147	2	6-32 x 5/16" Screws for fitting the PSU mounting adaptor bracket	
MS0164	2	Hex head screws 6-32 x 3/8" for mounting the PSU bracket in narrow frames	



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2 Safety & Compliance Information

This section introduces the hazards and safety precautions associated with installing, inspecting, maintaining or servicing the G6-300 OPT. Before proceeding, check the relevant hazard and safety information. Fire, explosion or electrical shock could occur and cause death or serious injury if these safe service procedures are not followed.

2.1 Preliminary Precautions

You are working in a potentially dangerous environment of flammable fuels, vapor, and high voltage. Only trained or authorized individuals knowledgeable in the related procedures should install, inspect,

maintain or service this equipment.

2.2 Emergency Total Electrical Shut-Off

Locate the forecourt emergency fuel shut-off valves and electrical isolation breakers. Understand how to use these, should they be required. Locate the switch or circuit breakers that shut-off all power to all fueling equipment and dispensing devices.

2.3 Total Electrical Shut-Off Before Access

Any procedure requiring access to electrical components or the electronics of a pump/dispenser requires total electrical shut-off of that unit. Understand the function and location of this switch or circuit breaker before inspecting, installing, maintaining, or servicing the G6-300 OPT.


2.4 Evacuation, Barricading and Shut-Off

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

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

2.5 Read the Manual

Read, understand and follow this manual and any other labels or related materials supplied with the equipment. If you do not understand a procedure, call an Invenco Authorized Service Centre or Invenco 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).
- Whether or not victim has vomited (e.g. if swallowed or inhaled something etc).

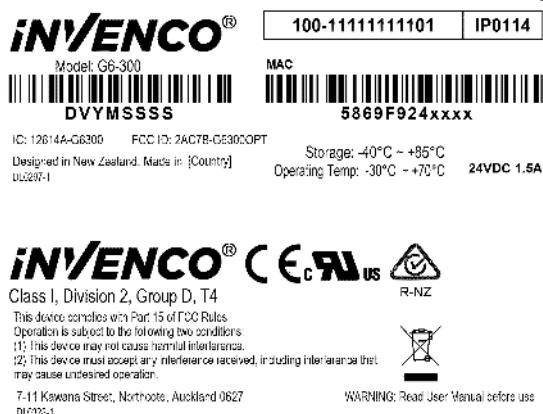
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IMPORTANT: Oxygen may be needed at scene if gasoline has been ingested or inhaled. Seek medical advice immediately.

3.1.7 Approvals

Invenco develops and maintains its hardware and software products using industry-standard quality processes, and is audited by various bodies.

The Invenco G6-300 has UL File Reference of E469526 and E480135 and carry labels similar to this:



The Invenco Retro-Fit Kit has UL File Reference of MH61528.

3.2 Computer Programs and Documentation

All Invenco Group Ltd. computer programs (including software on discs and within memory chips) and documentation are copyrighted by, and shall remain the property of, Invenco Group Ltd. Such computer programs and documents may also contain trade secret information. The duplication, disclosure, modification, or unauthorized use of computer programs or documentation is strictly prohibited, unless otherwise licensed by Invenco Group Ltd.

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4 Installation Guide

1. Please ensure all safety procedures are followed per requirement by the customer before installing the retrofit kit.
2. Remove power to Pump and follow the OSHA Lock-out/Tag-out procedures.



WARNING

Failure to turn off the unit during installation of the kit may cause injury or bodily harm from electrical shock. Ensure that all power to the unit is switched off before opening the door of the unit and during kit installation.

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

4.1 Disassembly Procedure

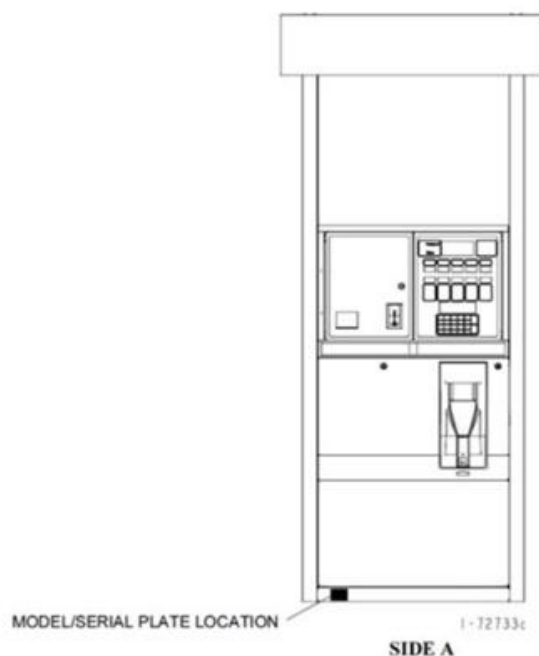
Before installation of the equipment can take place, the existing electronic payment assembly must be removed from the dispenser. This section covers the removal of these components.

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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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 power.
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.




Side A on a Narrow Frame Tokheim Premier C

4. Using a TPX88 Tokheim key, unlock and open the Printer and Card Reader Door.



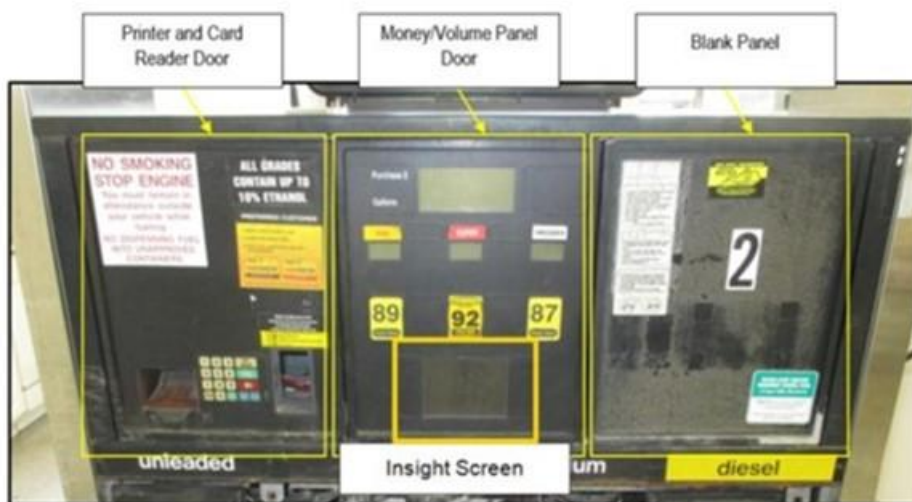
Note: For several steps in this Disassembly Procedure there may be two sets of pictures discerning the two main variations of the Premier C dispensers: Standard DPT and Insight DPT. Take notice of the captions on the images depending on which dispenser setup you are working on.

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 **Note:** The Narrow dispenser will not have a Blank Panel to the right. Only the Printer/Card Reader door and Money Volume Panel.

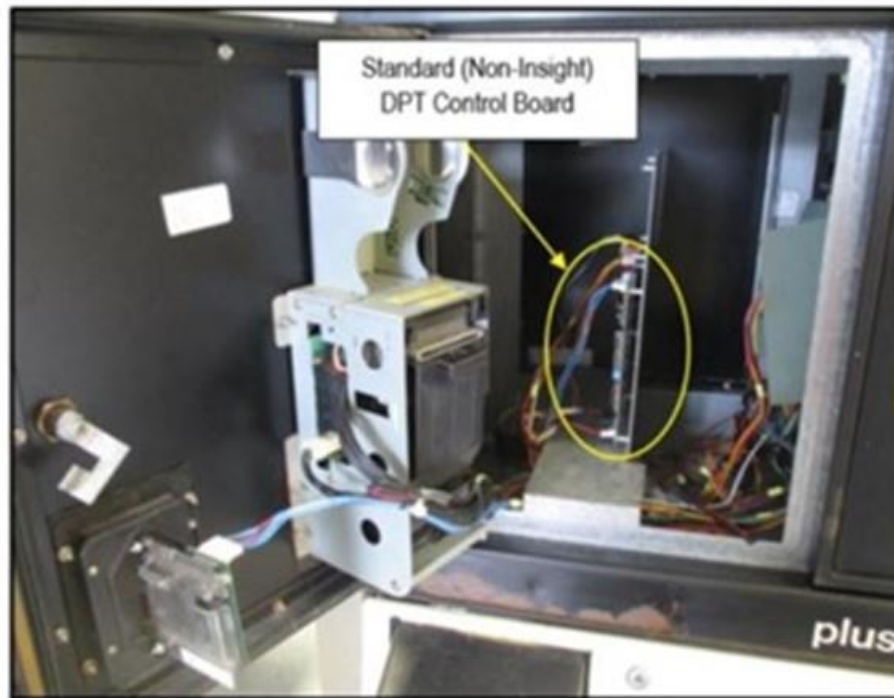


Doors of a Standard (Non-Insight) Premier C Dispenser

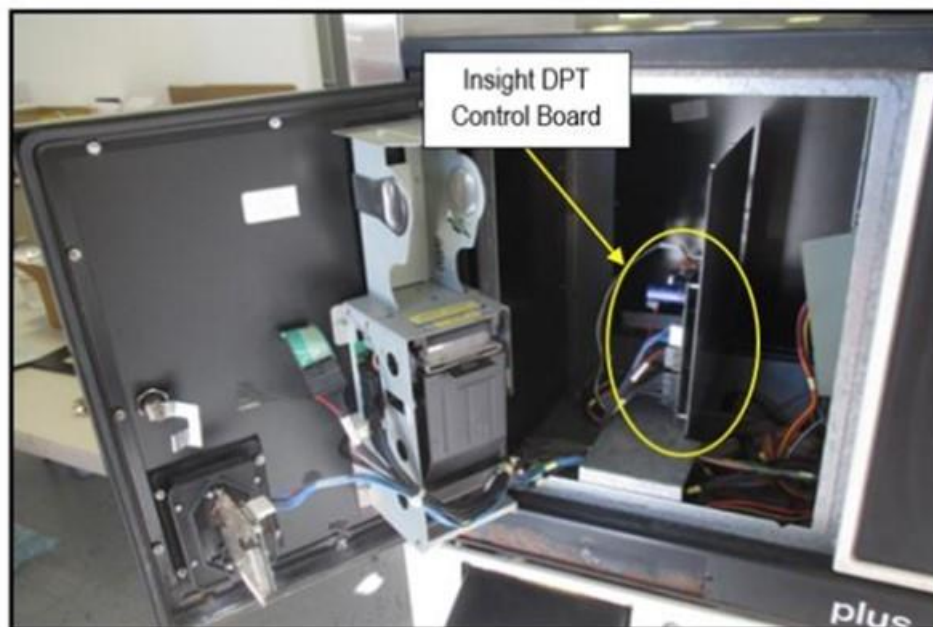


Doors of an Insight Premier C Dispenser

- Identify the DPT Control Board directly inside of the Printer/Card Reader section

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Location of DPT Control Board on Standard Wide Dispenser

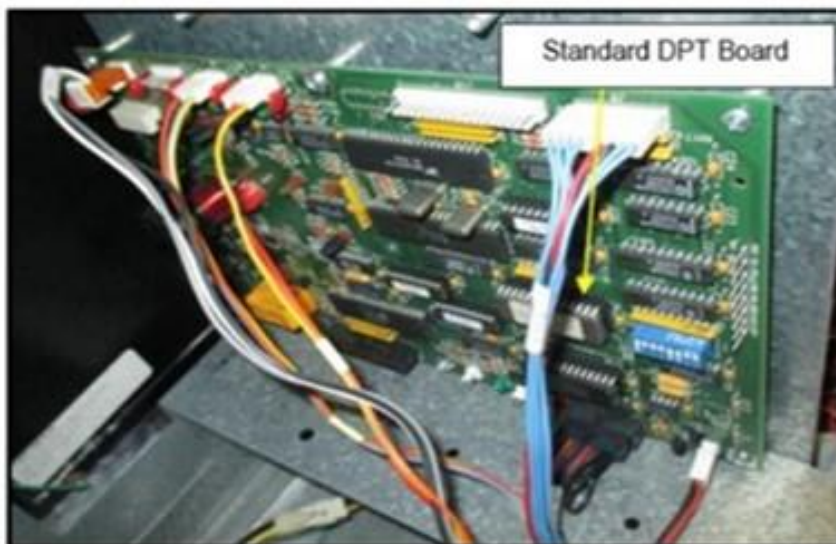


Location of Insight DPT Control Board on Wide Dispenser

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Location of DPT Control Board in Narrow Dispenser

6. Make note of or mark the communications wiring assembly (J4 for Standard DPT and J9 for Insight DPT). This wiring assembly will be re-connected later during the Installation Procedure to Side A. Then, unplug all wiring assemblies connected to the DPT Control Board.



Standard DPT Control Board (Wide)

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Communications wire assembly for Standard (J4)



Insight DPT Control Board (Wide)

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Communications wire assembly for Insight (J9)



Standard DBT Board in Premier C Narrow

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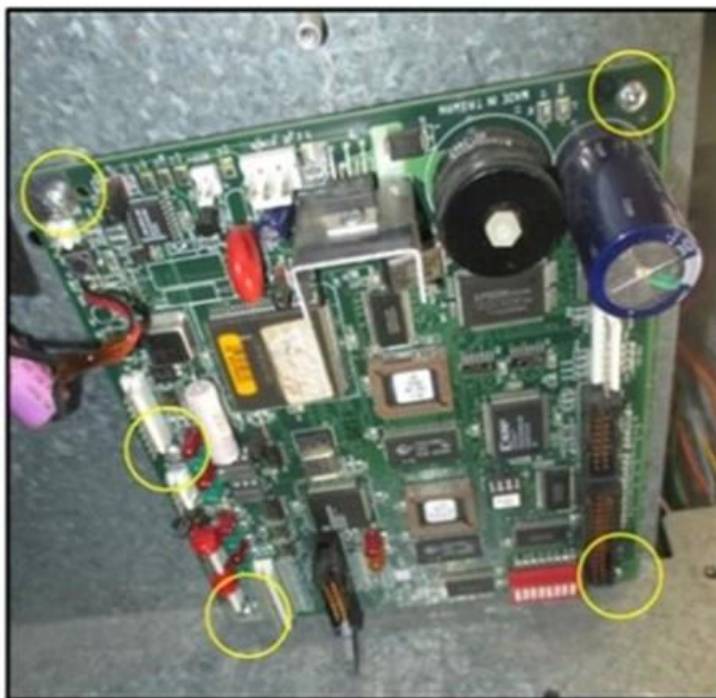
Insight DBT Board in Premier C Narrow

7. Using a pair of side cutters, cut the zip tie that is securing the DPT battery to the DPT Bracket (Insight Dispensers Only).

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Location of DPT Battery (Insight)

8. Remove the six (Standard) or five (Insight) Phillips head mounting screws that secure the DPT Control Board to the DPT Bracket. The hardware can be discarded, it will not be re-installed.

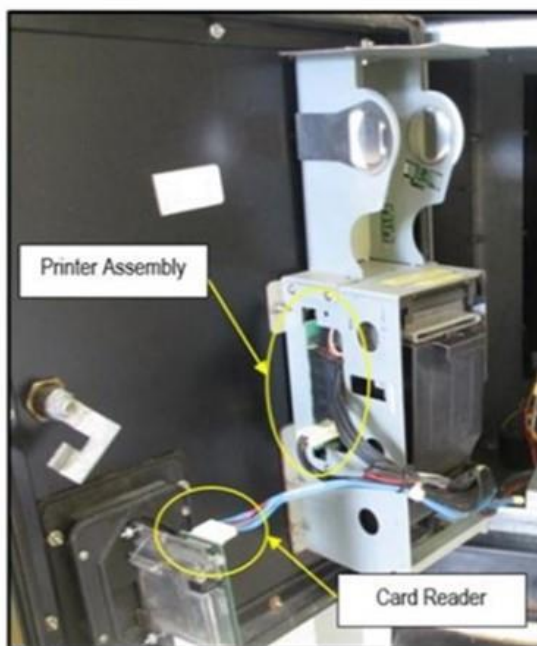


Mounting Screws on Insight DPT Control Board

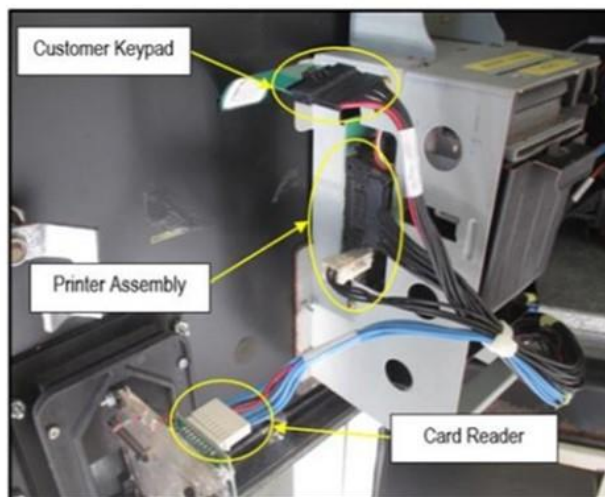
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9. Remove the DPT Control Board from the dispenser. The DPT Control Board can be discarded, it will not be re-installed.
10. Unplug all wiring assemblies connected to the Printer and Card Reader Door, such as: Customer Keypad, Printer Assembly, Card Reader, etc.

Note: The number and types of components that will be attached to the Printer and Card Reader Door will vary depending on the dispenser setup.



Components attached to Printer and Card Reader Door (Standard)



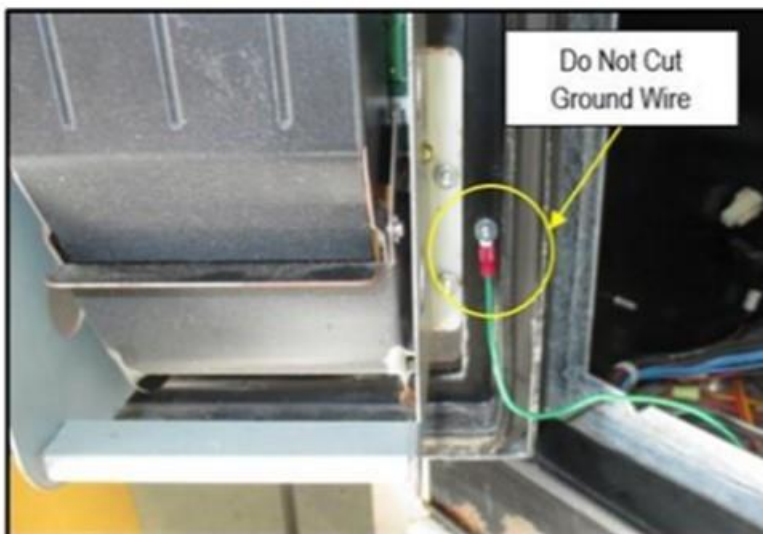
Components attached to Printer and Card Reader Door (Insight)

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11. Using a thin-walled 5/16" socket, remove the ground wire nut located on the lower right hand side of the Printer and Card Reader door assembly. The nut can be discarded.



Note: DO NOT cut the ground wire! It will be re-installed later during the Installation Procedure.



Location of Ground Wire Screw

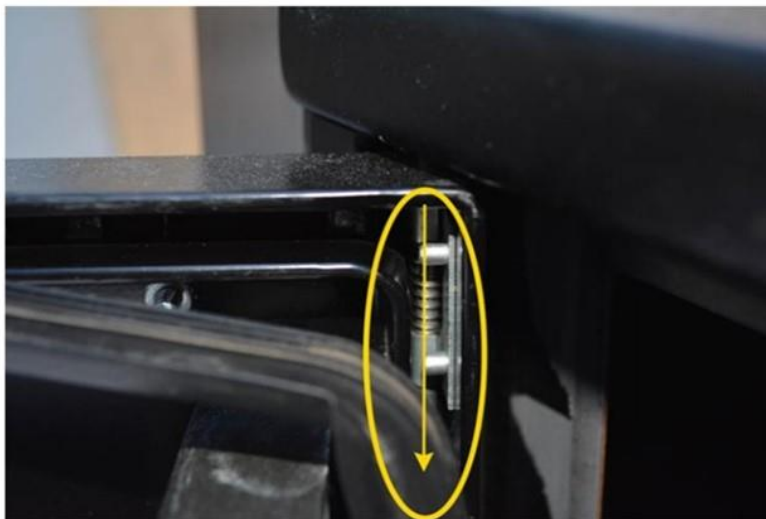
12. Remove the door from the frame.
- a. Pull away the upper-right portion of the door gasket to allow access to the door hinge spring.



Portion of gasket pulled away revealing door hinge


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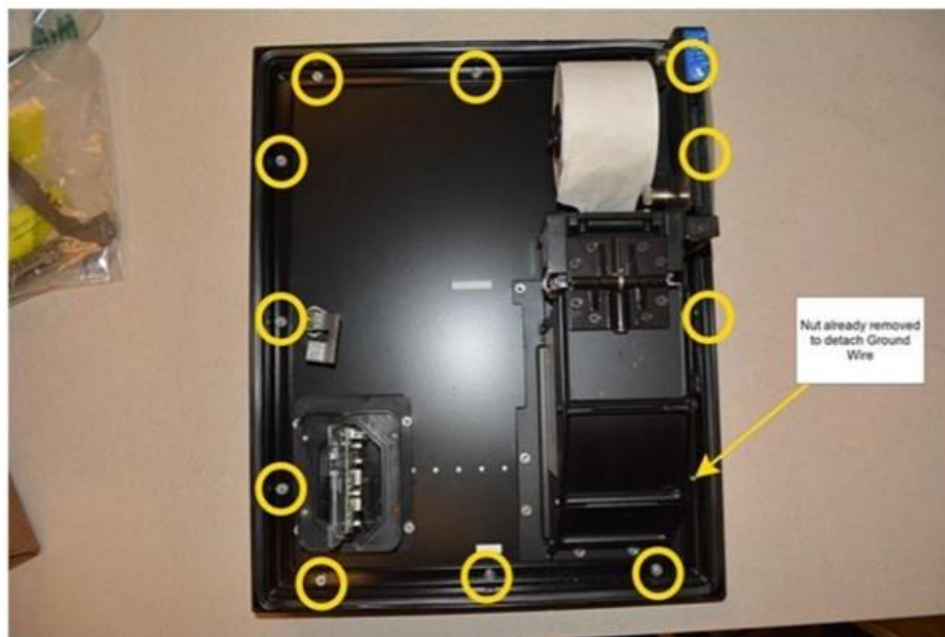
- b. Using either a pair of needle nose pliers or a narrow flathead screwdriver, pull the door hinge down and remove the door from the Dispenser Frame. Set the door on a clean, flat, stable surface.



Direction of hinge spring

13. Using a thin-walled 5/16" socket, remove the 11 remaining nuts along the perimeter of the Printer and Card Reader Door Panel that secure the panel to the door frame. The nuts can be discarded.

 **Note:** Printer may need to be removed to uninstall the old plate from the door frame.



Location of Panel Nuts

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14. Push the panel through the front of the door frame.



Caution: Rust and corrosion may have seized the panel to the door frame. Use a rust penetrator fluid to ease removal of the panel. In extreme cases it may be necessary to use a rubber mallet to remove the panel



Note: Door Frame after panel has been removed. This is retained.



Note: Panel and attached components after removal. This can be discarded.

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15. Remove the "shoestring" Panel Gasket and leftover adhesive material. All material must be cleaned out for the new gasket.
 - a. Use needle-nosed pliers, a flathead screwdriver, or other scraping tools to remove any remaining gasket material from the channel on the door frame.



Damaged gasket after removal

- b. Use a cloth rag and general-purpose cleaner to clean dirt and debris away from channel.
16. Repeat the disassembly steps for side b.
17. The Disassembly Procedure is complete. The dispenser is now ready for the installation of the Retrofit Kit. For installation instructions, refer to the installation procedure, section 4.2.

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4.2 Installation Procedure

This section provides information on the installation of the G6-300 Tokheim Premier C Outdoor Payment Terminal (OPT). The following topics are discussed:

4.2.1: Kit Installation

4.2.2: Mounting Narrow Frame Power Supply

4.2.1 Kit Installation

This section follows from the Disassembly Procedure, and assumes the pump is still open and that Disassembly is complete.

1. Acquire the OPT Power Supply Assembly EZ0631.

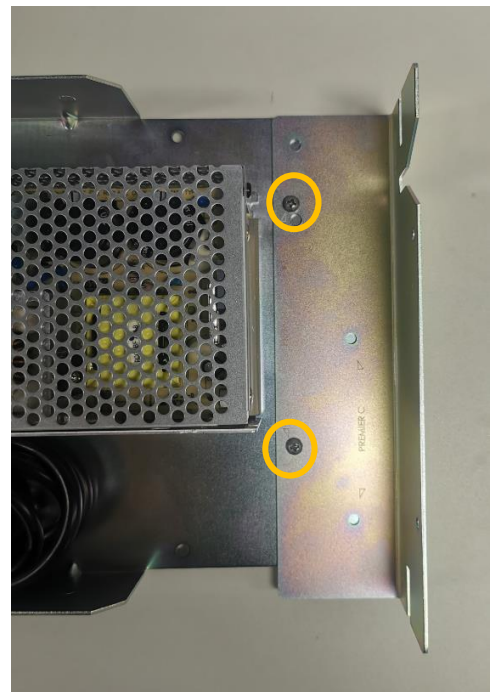


2. Install the Dispenser InvencoLink (RF00033-XX) onto the side A PSU bracket using the InvencoLink Kit installation Instructions.
 - a. Install the InvencoLink on one universal Power Supply Bracket. This bracket will now become the Side A PSU bracket. Follow the InvencoLink Installation Instructions (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.

Note: For Narrow Frame Dispensers, follow the steps for **Mounting Narrow Frame Power Supply** in **section 4.2.2** and then return to complete the Assembly Procedure.

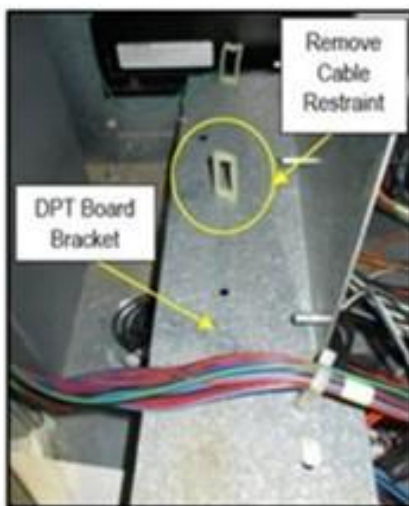
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3. Acquire the PSU mounting adaptor bracket (MP1181) and fit on to the PSU (Power Supply Unit) plate assembly (EZ0631) with the two MS0147 screws and Identify the mounting locations "Premier C" on the Power Supply Assembly bracket.



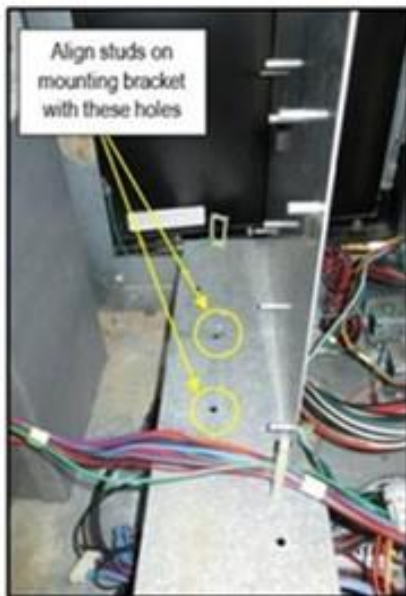
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4. Remove any cable restraints that may be inserted into the middle two holes on the DPT Board Bracket.
Remove cable restraints on DPT Board Bracket



Remove cable restraints on DPT Board Bracket

5. With the "Premier C" plate on the bottom, insert the Power Supply Bracket in an upright and vertical position as shown.



Electronics cavity before Power Supply is installed

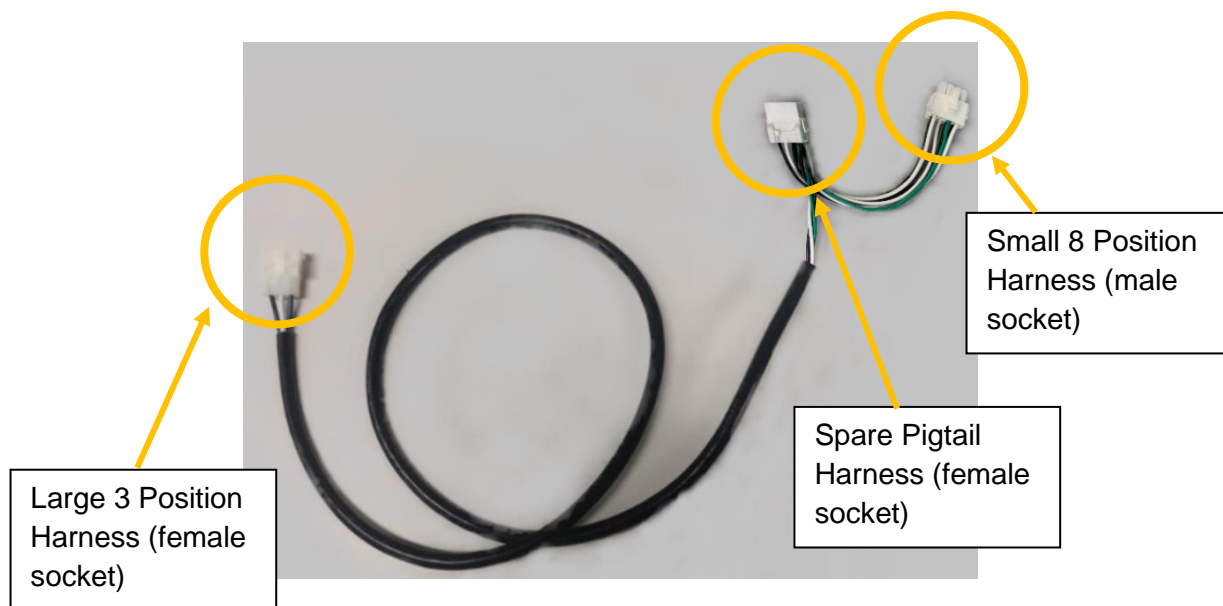
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Electronics Cavity after Power Supply is installed

6. Fasten the two nylon locking wing nuts MN0080 to the bottom of the Power Supply Bracket to secure it to the DPT board bracket.

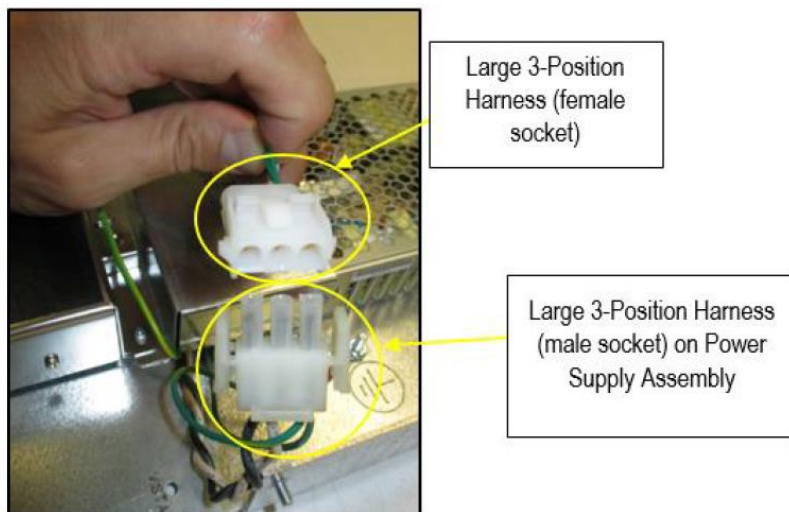
Mounting nuts on the bottom of Power Supply Bracket

7. Acquire the Tokheim A/C Wire Assembly EK0206 from the kit.



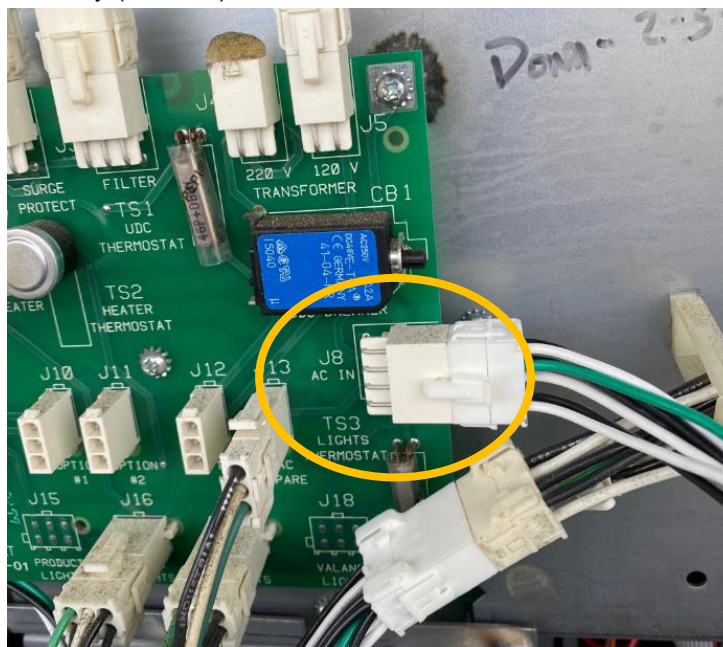
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8. Insert the large 3-position Harness (female socket) of the A/C wiring harness into the large 3-Position Harness (male socket) pigtail that is present on the Power Supply Assembly



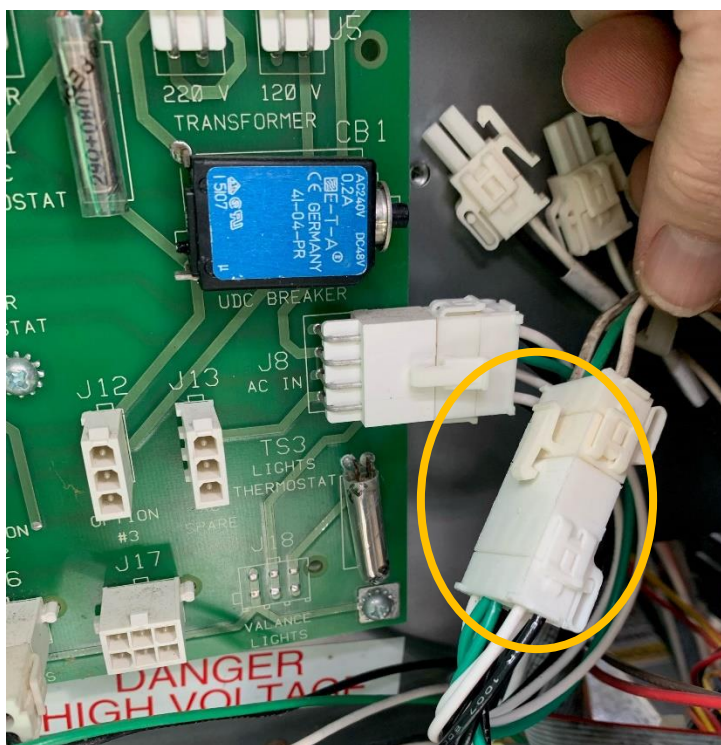
Plugging in the A/C Wiring Assembly to the Power Supply Assembly

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.



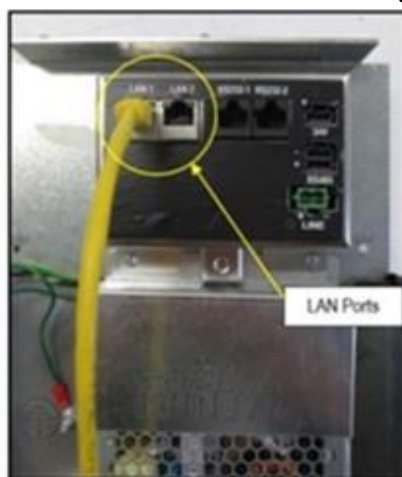
Plug the existing dispenser input connector (that was temporarily removed from J8) into the female pigtail harness on the Tokheim A/C Wire Assembly (EK0206).

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10. Acquire the Yellow Cat5e Network Cable EK0131 and insert one end into the Dispenser InvencoLink port labeled "LAN1" ("LAN2" for Side B).

Note: Please pay attention when attaching the Yellow Cat5e Network Cable (EK0131). Make sure that it is being plugged in to the "LAN1" port ("LAN2" for Side B) and not one of the RS232 ports. The orientation of the Dispenser InvencoLink may differ from the one shown in the figure below.

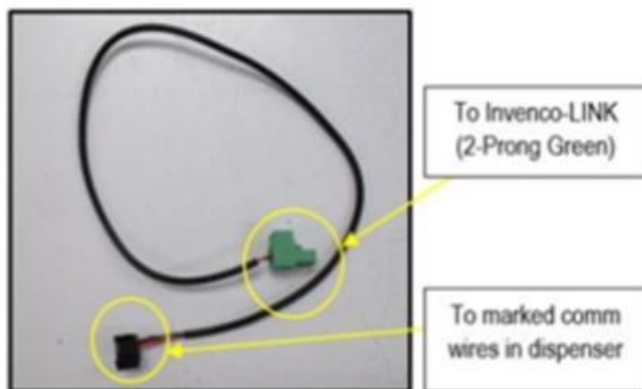


Installing network cable into LAN port on Dispenser Cub

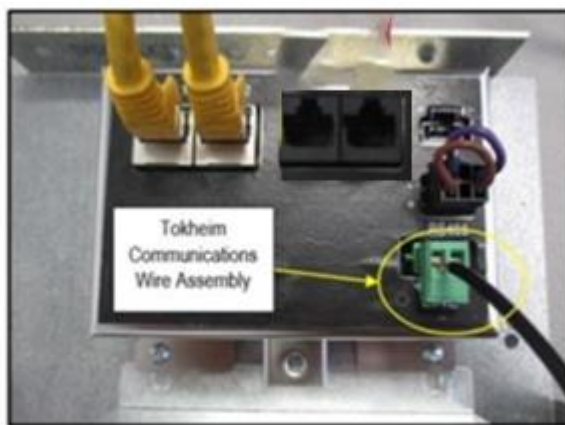
11. Acquire the Tokheim Communications Wire Assembly EK0205 and insert one end (2-prong green) into the terminal labeled "LINE" on the Dispenser InvencoLink unit.

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Note: This procedure is only needed for Side A. Tokheim Communications Wire Assembly Tokheim Communications Wire Assembly plugged into Dispenser InvencoLink



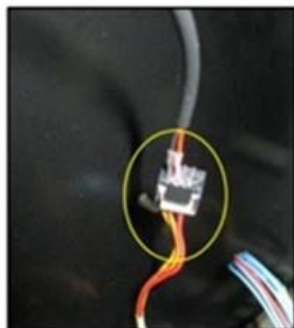
Tokheim Communications Wire Assembly



Tokheim Communications Wire Assembly plugged into Dispenser Cub

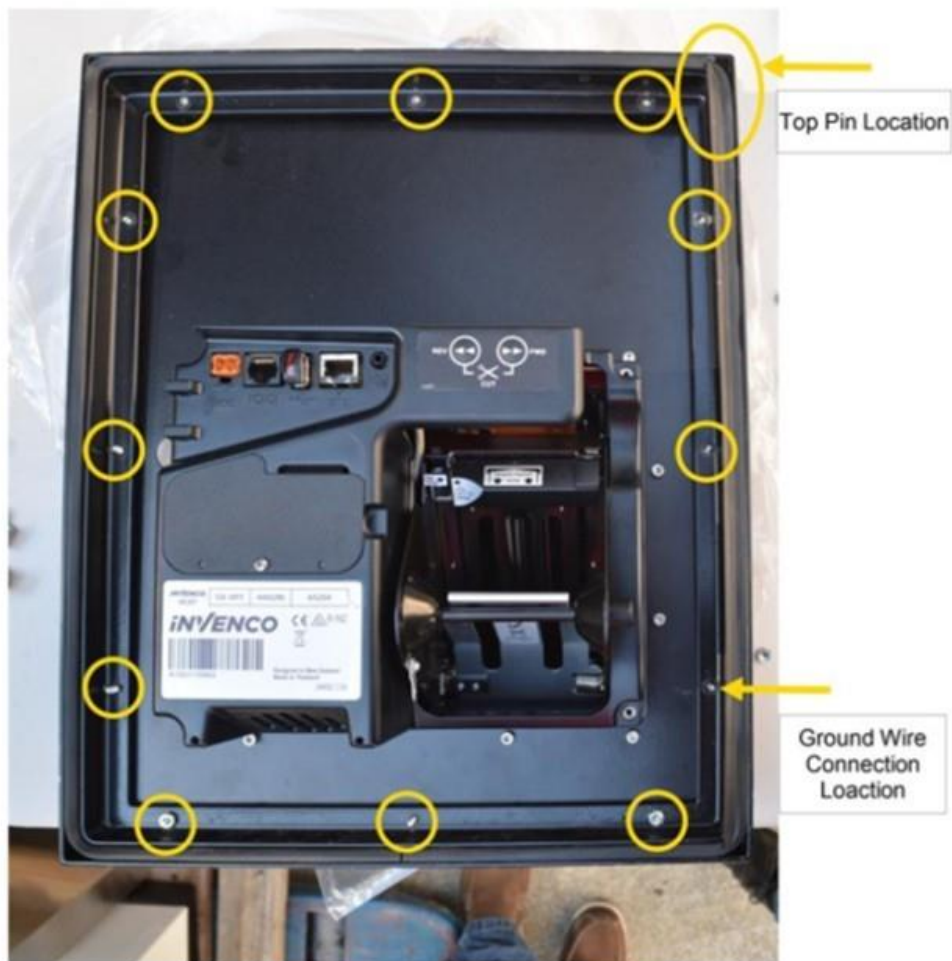
12. Insert the opposite end of the Tokheim Communications Wire Assembly and connect it to the dispenser communications wire assembly marked in step 6 of the Disassembly Procedure.

Note: This procedure is only needed for Side A.

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Tokheim Communications Wire Assembly plugged into dispenser comm

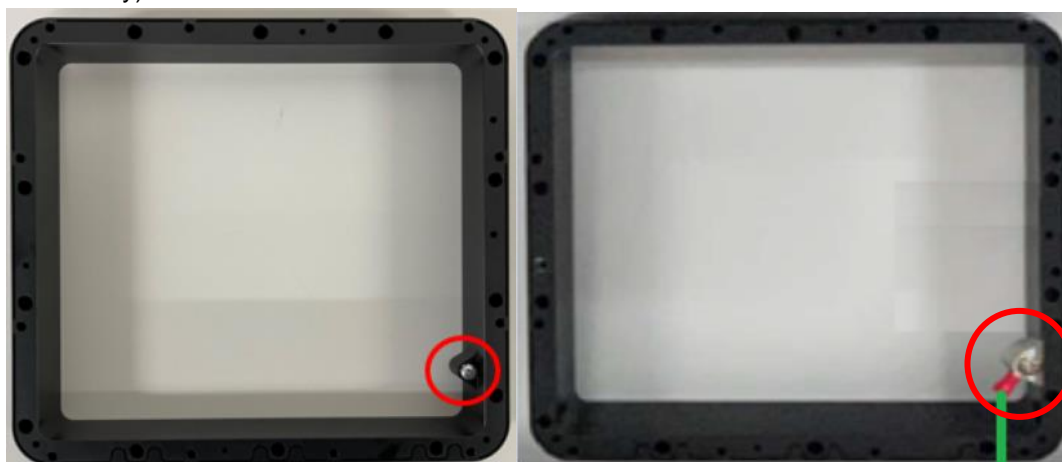
13. Insert the Premier C OPT Panel RP00037-XX into the Printer/Card Reader door frame by lining up the studs on the dial with the holes on the door frame. Verify the G6-300 plate is installed to the frame with door hinges on the right side.



Premier C Dial

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14. Secure the OPT Panel to the door frame by fastening 11 of the supplied nuts (MN0076) to the protruding studs. Do not reinstall one of the bottom right nuts.
15. Re-install the door assembly into the dispenser frame. Lubricate the door hinge spring if necessary. Reinstall the gasket into place after door is installed.
16. Obtain the ground cable EK0133 from the kit and connect one end of the cable to the spacer that the G6-300 OPT is mounted on as shown below. The screw is pre-fitted on the spacer already. (Only the spacer is shown for clarity)



17. Re-fasten the ground wire, along with the other end of the EK0133 ground cable from the spacer, to one of the lower right-hand studs with the supplied nut MN0076.



Dial after being fastened to door frame

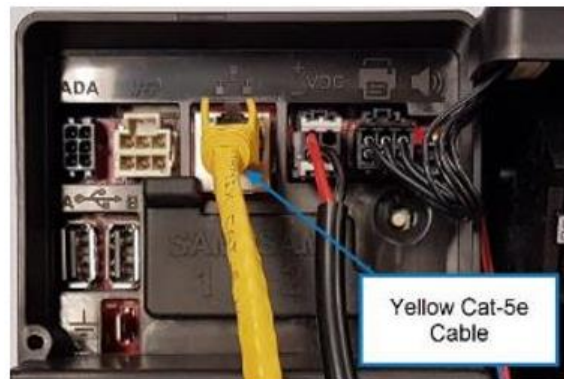
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18. Locate one of the D/C Wiring Assemblies that arrive pre-wired to the Power Supply Assembly. Feed the open end of the cable through the opening on the tamper prevention shield and plug it into the OPT Terminal labeled "VDC".



19. Plug in the open end (from Dispenser InvencoLink in step 10) of the Yellow Cat5e Network Cable into the OPT Ethernet terminal labeled as .

Note: Verify the correct side cable is used (LAN1 for Side A, LAN2 for Side B).



20. Locate one of the Earth Ground Cables that arrive pre-wired to the Power Supply Assembly and attach the female spade terminal to the male spade stud on the OPT unit's paper spool. Earth Ground attached to spade terminal on Paper Spool.



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21. Using a zip-tie, gather all cable assemblies attached to the OPT unit, including the Earth Ground, and secure them to the Cable Restraint Anchor Point located to the left of the tamper prevention shield.



22. Feed excess cabling into the electronics cavity so that the majority of the cables' slack will be secure inside of the Dispenser Electronics Cavity. 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.

Caution: Excess cabling must be organized as to not cause obstruction when opening and closing the dispenser doors. Failure to properly restrain the wire assemblies may result in pinching and damaging them. It is the responsibility and the discretion of the installer to provide and install any cable restraints that may be necessary to facilitate these guidelines. Invenco is not responsible for damage resulting from improper cable confinement.

23. Repeat steps 1-21 for Side B (if present).
24. The installation procedure is complete.
25. Close the dispenser doors, routing all cables away from sharp edges and gaskets. Close the Money/Volume door and engage the door latch. Push the OPT door closed and rotate the TPX88 key into the locked position and remove. Power on dispensers.

Note: Check and follow local ordinances for inspection and powering protocols prior to powering the dispenser.

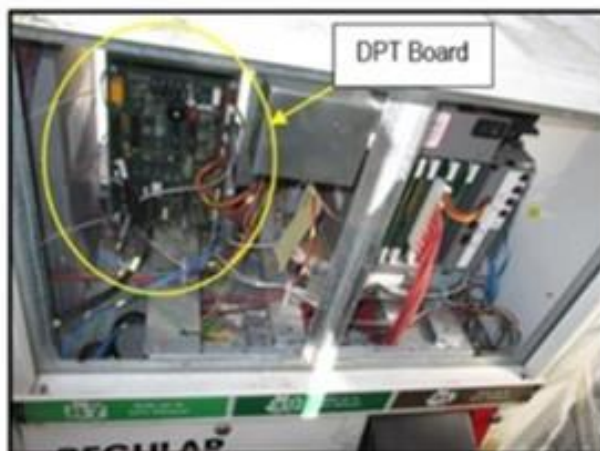
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4.2.2 Mounting Narrow Frame Power Supply

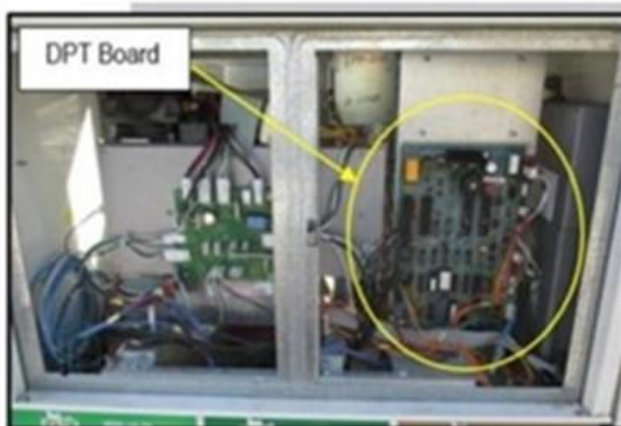
This section provides instructions on how to mount the Power Supply Assembly in a Narrow Frame Premier C. Mounting the Power Supply Assembly differs between a Wide Frame and Narrow Frame Premier C. The same Power Supply Assembly will be installed as in the Wide Frame. This is the only area in which the Disassembly/Installation Procedures are comprehensively different between Wide and Narrow. All other areas of either the Disassembly/Installation Procedures are parallel with each other.

1. Locate the DPT Board Bracket inside of the Dispenser Electronics Cavity (left-hand side for Side A and right-hand side for Side B).

Note: The DPT board will already be uninstalled. Use the below image as a reference for correct positioning.



Location of DPT Board on Narrow Frame (Side A)



Location of DPT Board on Narrow Frame (Side B)

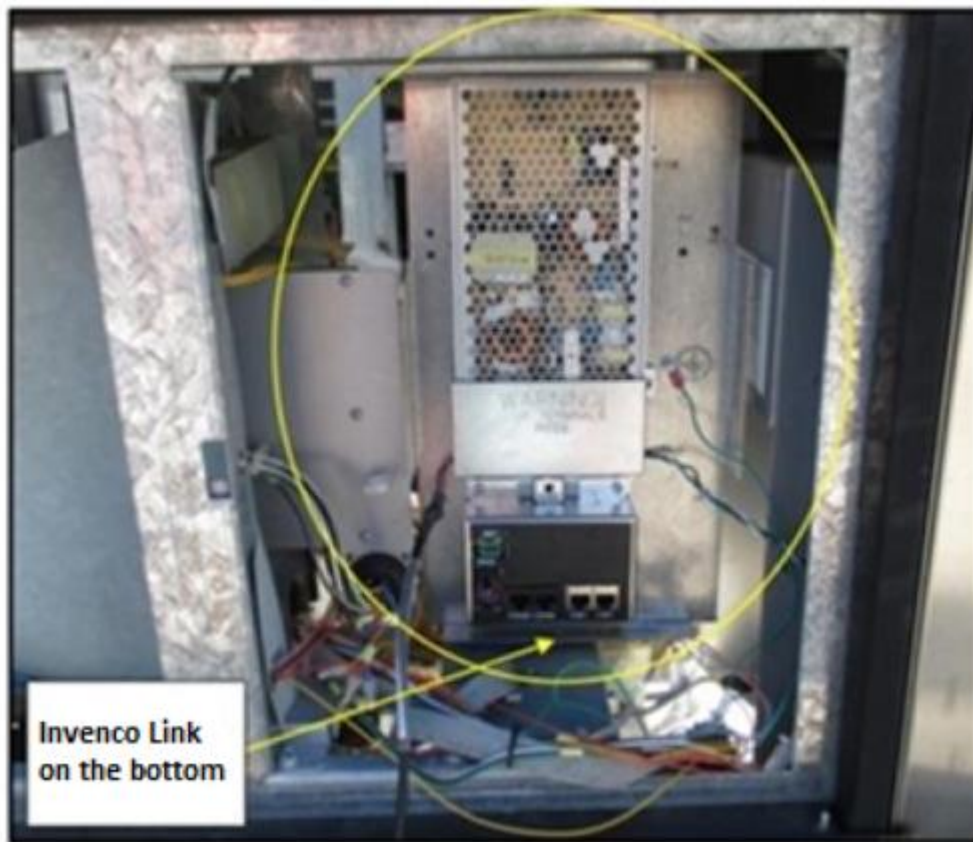
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2. Acquire the PSU (Power Supply Unit) plate assembly (EZ0631).
3. Identify the required mounting holes for the Prem C Narrow on the Power Supply Assembly plate.



4. With the PSU oriented at the top (and the Invenco Link on the bottom for side A), align the identified mounting holes in the above step with the existing mounting studs that were used to mount the DPT board.

Note: Remove any cable restraints that may be in the way of the PSU bracket.


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5. Fasten the Power Supply Assembly to the DPT board bracket using 2 Hex head screws (MS0164) provided in the hardware kit.
6. Repeat install with PSU on side B.

Note: Slide in the left side of the PSU bracket first behind the computer base when installing on Side B.

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7. Return to and continue the Kit Installation (step 7 of the installation procedure, section 4.2.1)

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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):

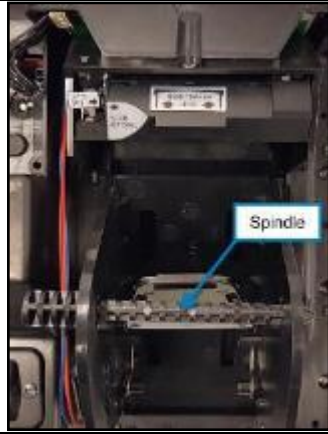




If the terminal is successful in connecting to the LAN it will display the following screen and the rest of the start-up sequence will continue:






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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>	