



Document Number

DCV-00560

Date Released

April 2023

Revision Number/Security level

R02 S2

Retrofit Helix Headless G7 15 inch InvencoLink (US) Installation Guide

Retrofit Helix Headless G7 15 inch + InvencoLink (US) Installation Guide

Kit Part Number:

RF00075- XX



Document Number	DCV-00560
Date Released	April 2023
Revision Number/Security level	R02 S2

Retrofit Helix Headless G7 15 inch InvencoLink (US) Installation Guide

Release History

Version	Prepared by	Date	Change description
0	Jojie Adigue and Shibani Joshi	March 2022	Initial Release, Removed reference to RF00070-XX
1	Shibani Joshi	1-March-2022	Matched BoM with the document
2	Shibani Joshi	14- April-2022	UL Comments addressed. No BoM changes needed.

© 2023 by Invenco Group Limited

All rights reserved

No part of this document may be copied or reproduced in any form without prior written consent from Invenco.

Invenco has taken great effort to verify the accuracy of this document but assumes no responsibility for any technical inaccuracies or typographical errors



Document Number	DCV-00560
Date Released	April 2023
Revision Number/Security level	R02 S2

Retrofit Helix Headless G7 15 inch InvencoLink (US) Installation Guide

Contents

Release History	2
1 Introduction.....	4
1.1 Tools Required.....	5
1.2 Recommended Materials.....	6
1.3 Installation Kit Contents.....	6
2 Safety & Compliance Information	9
2.1 Preliminary Precautions.....	9
2.2 Emergency Total Electrical Shut-Off.....	9
2.3 Total Electrical Shut-Off Before Access.....	10
2.4 Evacuation, Barricading and Shut-Off.....	10
2.5 Read the Manual	10
2.6 Follow the Regulations	10
2.7 Replacement Parts.....	10
3 Safety Symbols and Terminology	10
3.1 Prevent Explosions and Fires	11
3.1.1 No Open Flames	11
3.1.2 No Sparks - No Smoking.....	11
3.1.3 Working Alone.....	11
3.1.4 Working with Electricity Safety.....	11
3.1.5 Hazardous Materials.....	12
3.1.6 In an Emergency	12
3.1.7 Approvals	12
3.1.8 Laser Warning.....	12
3.2 Computer Programs and Documentation.....	13
4 Installation Guide.....	14
4.1 Prepare the Wayne Helix for NCR G7 or G7-15	14
4.1.1 Open the Wayne Helix.....	14
4.1.2 Uninstall Helix Cabinet Components	19
4.1.3 Uninstall the Dispenser Collar Frame	27
4.2 Install the G7 or G7-15 Into the Wayne Helix.....	30
4.2.1 Prepare and Install the Helix Power Supply Assembly.....	30
4.2.2 Install the Collar Frame	45
4.2.3 Install the G7 or G7-15 Panel Hinge Brackets	50
4.2.4 Prepare to Install the G7 or G7-15 Panel.....	56



Document Number	DCV-00560
Date Released	April 2023
Revision Number/Security level	R02 S2

Retrofit Helix Headless G7 15 inch InvencoLink (US) Installation Guide

1 Introduction

The documentation provides some basic guidelines for installing the G7-15 Outdoor Payment Terminal (OPT) system.

- G7 15inch Outdoor Payment Terminal (OPT). Wayne Helix Headless Dispenser (without intercom speaker).
Kit part number: RF00075- XX

This Retro-Fit Kit can be installed into either Side A or Side B of a Helix Headless dispenser.

NOTE: Two kits are required for a full installation of the G7 15 inch OPT system to the Wayne Helix Headless dispenser.

CAUTION: Do not proceed unless two G7 15 inch Wayne Helix Retrofit kits are available for installation on a Helix Headless 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.
- For each side installation, a printer kit is also required to be installed with this kit. Following the completion of the installation of this kit, it requires the installation of UL Listed by Report Retrofit Kit Part Number RF00025-XX (Retrofit G7 Printer Wayne Helix), by referencing the instructions in that kit (DCV-00541).

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.

Retrofit Helix Headless G7 15 inch InvencoLink (US) Installation Guide

1.1 Tools Required

The following tools are required to mount the G7-15 OPT:

- T7 Torex key
- 3mm Allen Key
- Phillips head screwdriver
- Flathead screwdriver
- Helix dispenser key
- Rubber mallet
- Tin snips

**WARNING**

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

	Document Number	DCV-00560
	Date Released	April 2023
	Revision Number/Security level	R02 S2
Retrofit Helix Headless G7 15 inch InvencoLink (US) Installation Guide		

1.2 Recommended Materials

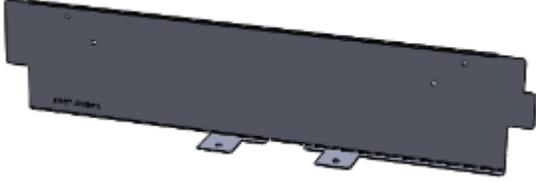
The following tools are not provided in the kit:

- Solvent to remove gasket material
- Scraping tool
- Cloths for cleaning

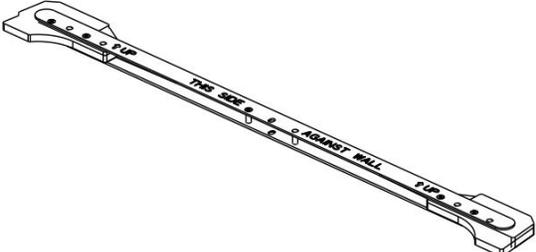
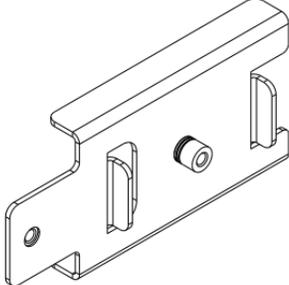
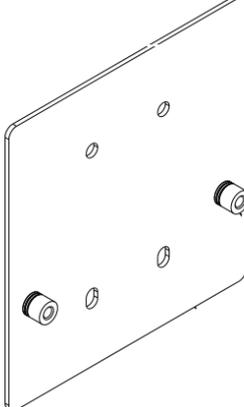
1.3 Installation Kit Contents

Unpack the Retrofit Kit (RF00075-XX) and check that all the parts listed below are present.

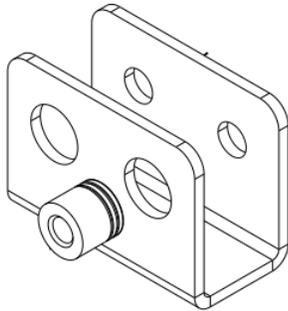
Retrofit Helix Headless G7 15 inch InvencoLink (US) Installation Guide

Retrofit Kit RF00075-XX		
Part Number	Part Name	Illustration
1 x RP00075-XX	G7 Helix Headless Panel	
1 x EZ0702	PSU Plate Assembly	
1 x MP0908	Helix PSU Mounting Bracket (one per dispenser)	
1 x MS0249	PSU Screw A, 6-32x0.375", Pan Head Phillips, Ext-Tooth Washer, Zinc (one per dispenser)	
2 x MS0146	PSU Screw B, SCREW, SEMS, 6-32X1/2", PAN HEAD, PHILIPS#2 (two per dispenser)	
2 x MN0076	PSU Nut B, 6-32, KEP LOCK, ZN (two per dispenser)	
1 x EK0126	Helix Power Adapter Cable	
1 x EK0203	Helix Pump Comm Adapter Cable	

Retrofit Helix Headless G7 15 inch InvencoLink (US) Installation Guide

1 x EP0098	Side Gasket Bracket (two per dispenser)	
1 x MS0255	Side Gasket Bracket Screw, HI-LO #6-19, FLAT HEAD, PHILLIPS, ZINC (two per dispenser)	
1 x EK0131	Yellow Network CAT Cable	
1 x MP0933	Helix Upper Plastic Collar Door Frame	
4 x MP1132	Side Slide Bracket	
2 x MP0991	Side Mounting Plate	
10 x MS0162	Helix Attaching Screw (9 used per side, one extra provided)	

Retrofit Helix Headless G7 15 inch InvencoLink (US) Installation Guide

2 x MP0990	Tether Bracket	
2 x MS0245	Tether Bracket to Dispenser Screw	
2 x MN0029	#8-32 Lock Nuts (ext. washer)	
4 x MW0059	Tether Attaching Flat Washer	

2 Safety & Compliance Information

This section introduces the hazards and safety precautions associated with installing, inspecting, maintaining or servicing the G7-15 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.

Retrofit Helix Headless G7 15 inch InvencoLink (US) Installation Guide

2.3 Total Electrical Shut-Off Before Access

Any procedure requiring access to electrical components or the electronics of a pump/dispenser requires total electrical shut-off of that unit. Understand the function and location of this switch or circuit breaker before inspecting, installing, maintaining, or servicing the G7-15/OPT.

2.4 Evacuation, Barricading and Shut-Off

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

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

2.5 Read the Manual

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

2.6 Follow the Regulations

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

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:

Retrofit Helix Headless G7 15 inch InvencoLink (US) Installation Guide



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.

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

Document Number	DCV-00560
Date Released	April 2023
Revision Number/Security level	R02 S2

Retrofit Helix Headless G7 15 inch InvencoLink (US) Installation Guide

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).

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

3.1.7 Approvals

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

The Invenco G7-15 Modules have a UL File Reference of MH61528 and carry labels similar to this:



3.1.8 Laser Warning

The G7-15 OPT incorporates a barcode reader. The barcode reader incorporates a laser aiming system. The Laser has a Class 2 output power to IEC 60825-1:2007 / ANSI Z136.1



iNVENCO [®]	Document Number	DCV-00560
	Date Released	April 2023
	Revision Number/Security level	R02 S2
Retrofit Helix Headless G7 15 inch InvencoLink (US) Installation Guide		

1mW MAX OUTPUT at 635-670nm
CLASS 2 LASER PRODUCT

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.

Retrofit Helix Headless G7 15 inch InvencoLink (US) Installation Guide

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.

4.1 Prepare the Wayne Helix for G7-15

Follow these steps to uninstall Helix components to prepare for the G7-15.

NOTE: This installation guide is valid for Helix Headless Dispensers without an intercom speaker. Check and verify at Open the Wayne Helix (section 4.1.1) step 3 to confirm before proceeding further.

4.1.1 Open the Wayne Helix

1. Unlock the Helix. The lock is located on the bottom of the frame collar.



2. Place in the prop rod in the upper right corner of the frame collar.

Retrofit Helix Headless G7 15 inch InvencoLink (US) Installation Guide

3. Check to verify that the dispenser does not have an existing intercom speaker. Visually identify to see if the intercom speaker is present on the upper plastic collar frame. If an intercom speaker is present, this installation guide does not cover installation in this dispenser. Close up the dispenser again and contact

Retrofit Helix Headless G7 15 inch InvencoLink (US) Installation Guide

technical support for advice. Otherwise carry on with the next steps to complete the installation.



4. Remove the lower metal Collar Frame.
 - a. Unscrew the two attaching screws holding the upper plastic collar frame section to the lower metal collar frame section. Set aside and retain the screws.



Retrofit Helix Headless G7 15 inch InvencoLink (US) Installation Guide

- b. Leverage the plastic latch away from the metal collar frame and apply a sharp force on the bottom of the lower metal frame towards the dispenser to disengage from the upper frame.



- c. Remove and retain the lower metal collar frame and attaching hardware.



Retrofit Helix Headless G7 15 inch InvencoLink (US) Installation Guide

5. Repeat the previous steps on the other side of the dispenser to remove the other metal collar frame.
6. With both plastic frames on each side closed lift until the shoulders can be removed. Pry up until the shoulder is loosened. Pull the rest of the way off, adjusting the plastic frame to clear the shoulders. Retain both shoulder sections.



7. Verify the upper plastic collar frame on each side is raised and the prop rod is in place after both shoulders have been removed.

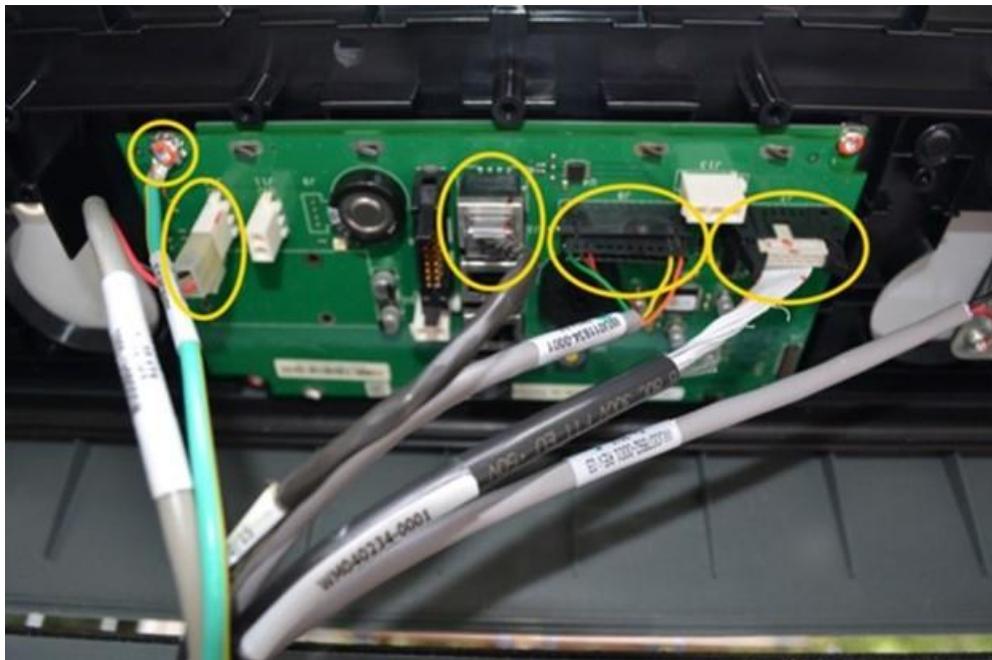
Retrofit Helix Headless G7 15 inch InvencoLink (US) Installation Guide



4.1.2 Uninstall Helix Cabinet Components

1. Remove components from the upper plastic collar frame customer display assembly.
 - a. Remove all connections to the customer display and note the connection locations.
-  **Note:** To remove the grounding wire a screw must also be removed. Retain the screw.

Retrofit Helix Headless G7 15 inch InvencoLink (US) Installation Guide

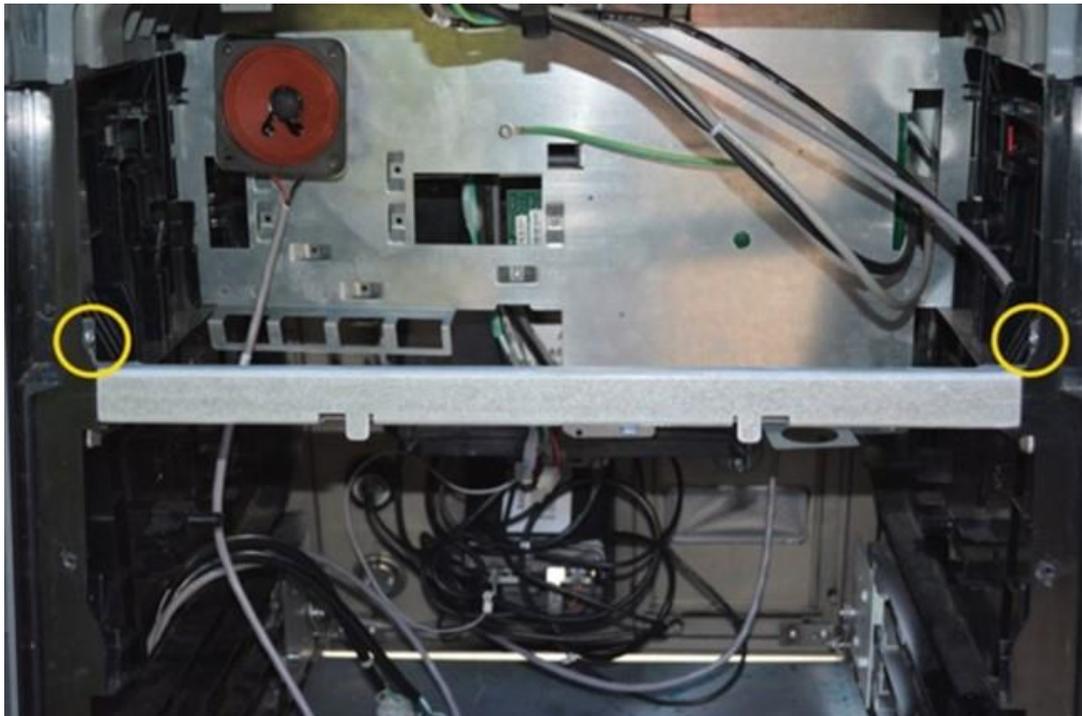


Retrofit Helix Headless G7 15 inch InvencoLink (US) Installation Guide

2. Unscrew the two attaching screws from the middle blanking panel. Push up on the panel to disengage the back hooks. Remove and discard the panel and hardware.



3. Remove the metal cross bar bracket and attaching hardware.
 - a. Unscrew the two screws from the bracket.

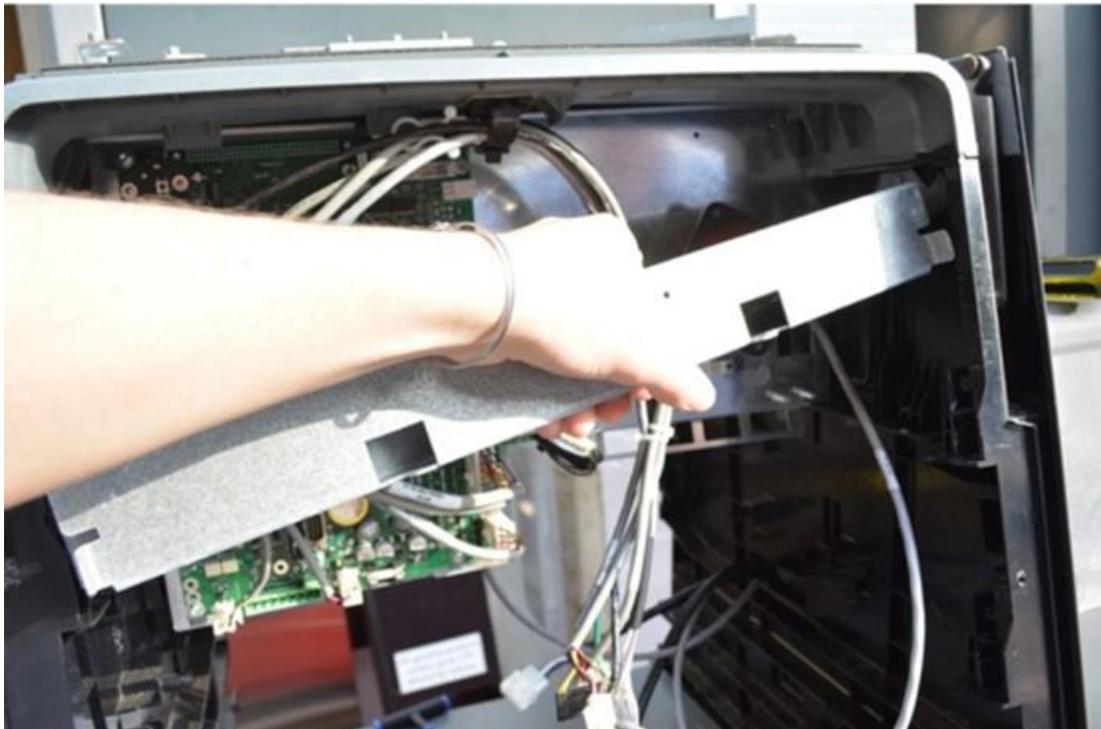


Retrofit Helix Headless G7 15 inch InvencoLink (US) Installation Guide

- b. Push in the latch on one side and firmly push up on the bracket.



- c. Remove and discard the bracket and attaching hardware.



Retrofit Helix Headless G7 15 inch InvencoLink (US) Installation Guide

4. Repeat the previous steps for the other side.
5. Remove the inner side skins and discard.

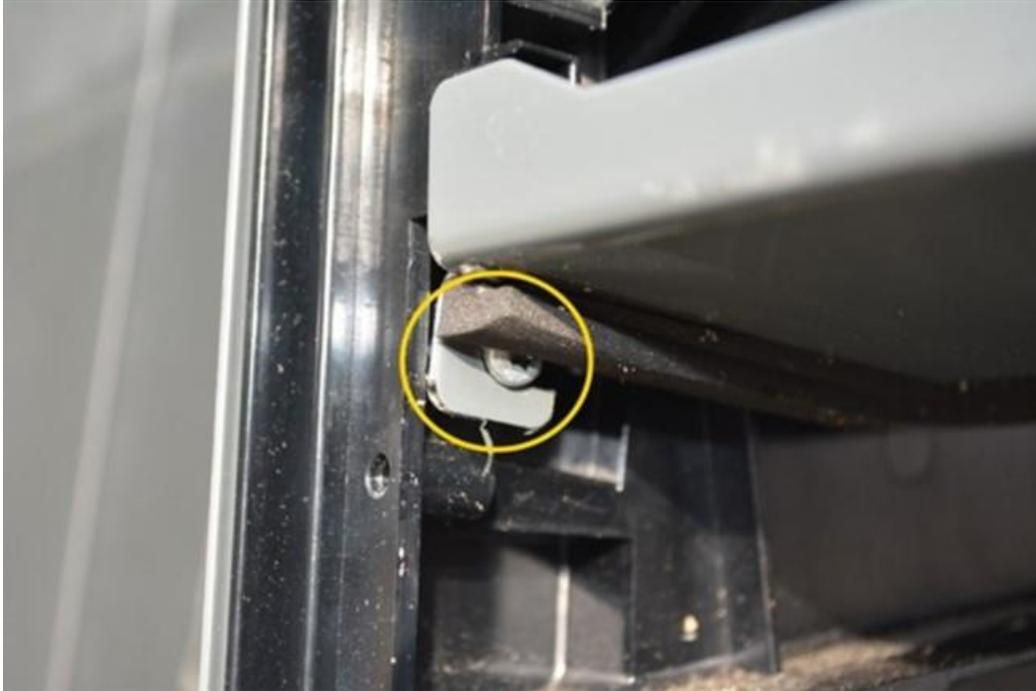


6. Remove the middle tray cover.
 - a. Unscrew the 2 side B screws from the tray cover (one screw per side).

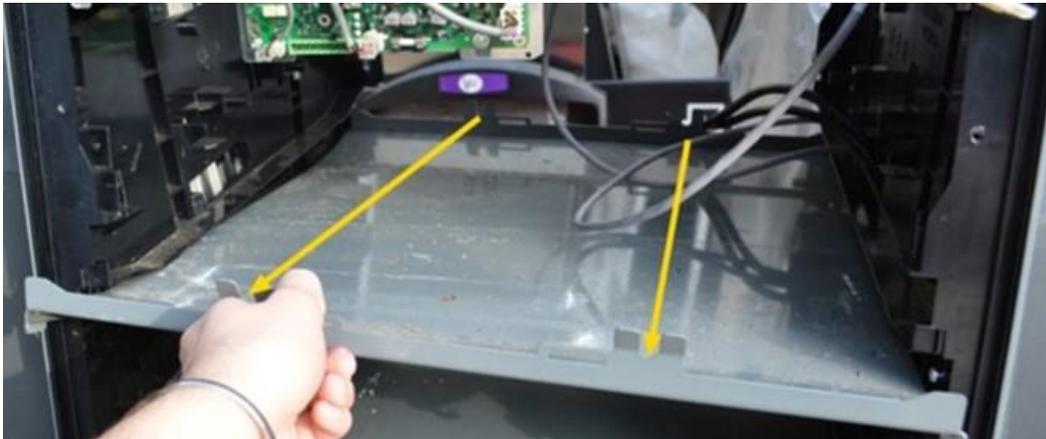


Retrofit Helix Headless G7 15 inch InvencoLink (US) Installation Guide

- b. Loosen the 2 side A screws from the tray cover (one screw per side).



- c. From side A, pull the tray cover towards you to disengage the hooks holding to the side A screws.



Retrofit Helix Headless G7 15 inch InvencoLink (US) Installation Guide

- d. Slide the tray cover the rest of the way out and remove. Remove the 2 side A screws. Discard the tray cover and hardware.



7. Uninstall the PPU housing L covers.
- a. Start on side A of the dispenser and disengage the 2 lower clips of the PPU L cover.



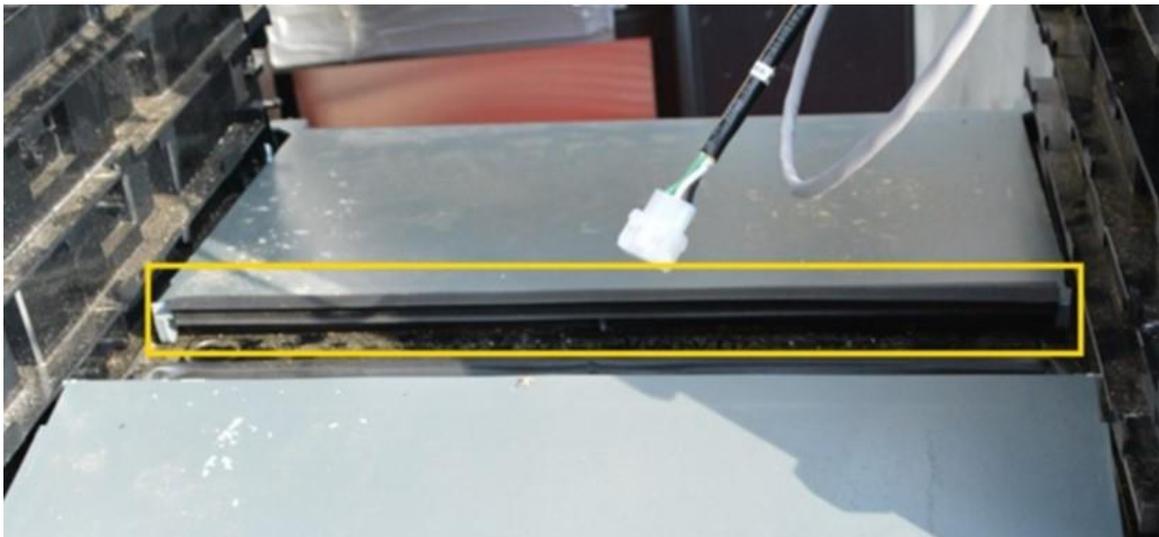
Retrofit Helix Headless G7 15 inch InvencoLink (US) Installation Guide

- b. Pull out the cover. Unplug the PPU buttons and Network cable. Make note of all cable locations to reinstall the correct connections.

 **Note:** Up to 5 PPU's may be included depending on the configuration.



- c. Set aside the PPU L cover and middle gasket to be reinstalled.



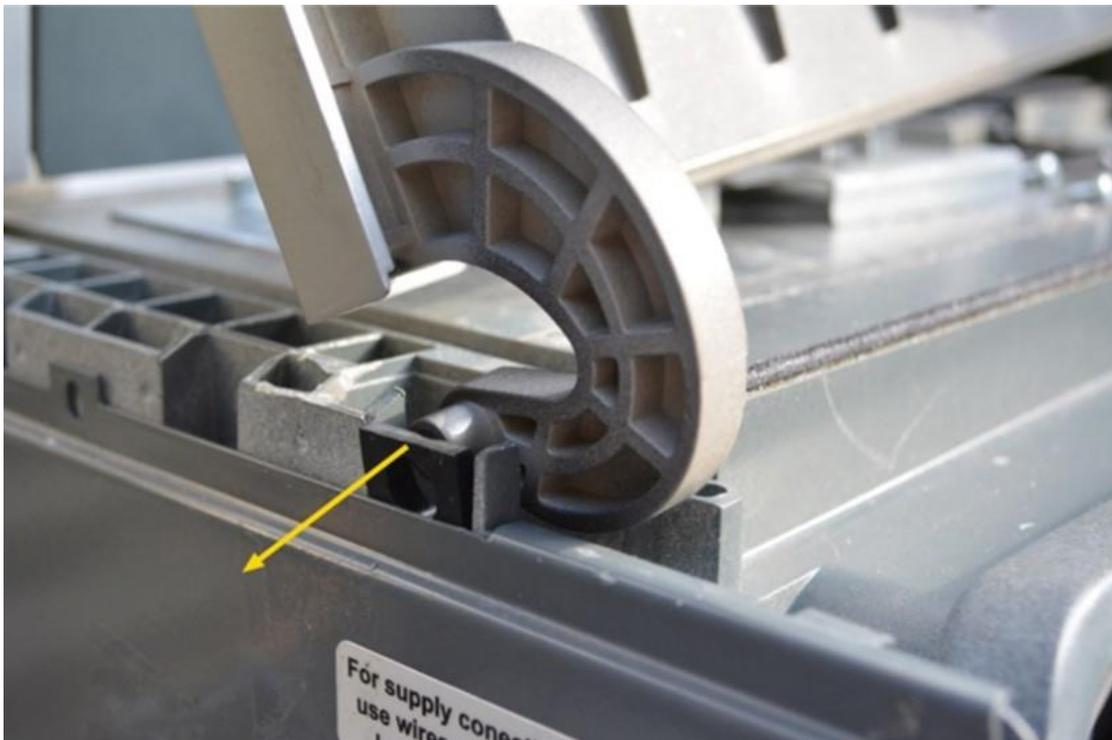
- 8. Repeat the process on side B.

Retrofit Helix Headless G7 15 inch InvencoLink (US) Installation Guide

4.1.3 Uninstall the Dispenser Collar Frame

1. Push out on each (2 per side of the dispenser) Collar Frame hinge to disconnect the Collar Frame from the dispenser.

 **Note:** Disengage the prop rod prior to fully removing the Collar Frame from the dispenser.

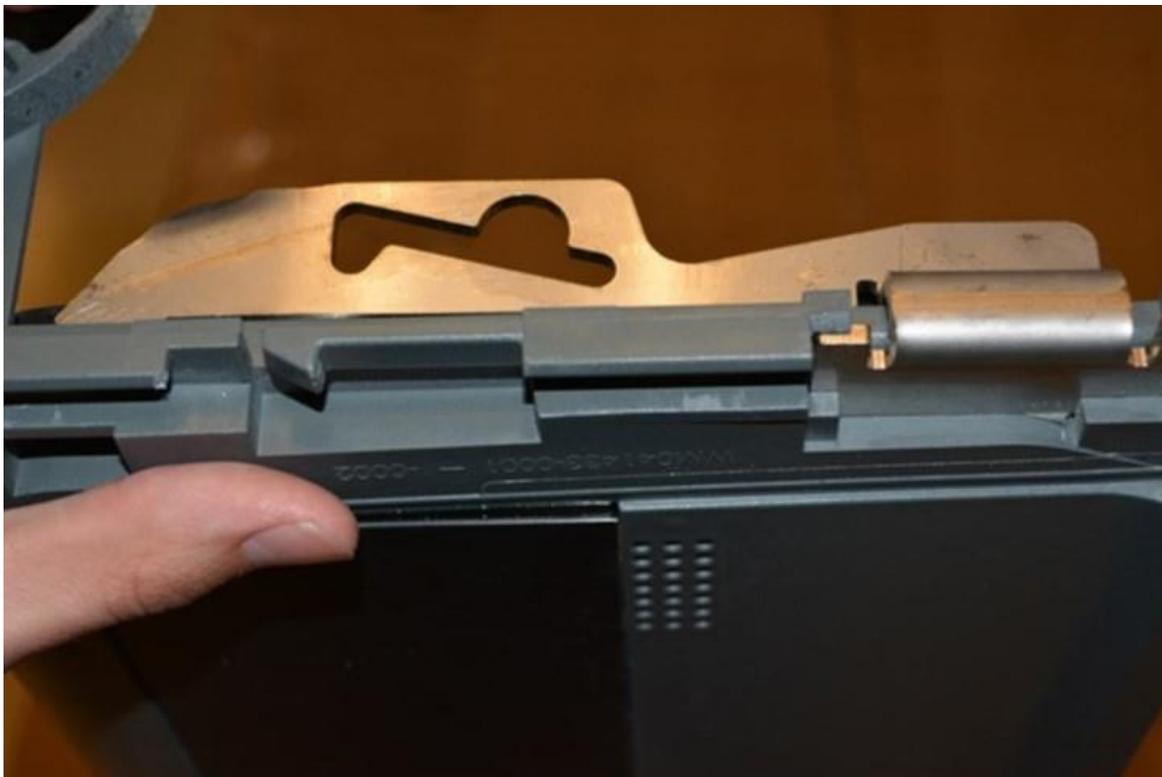


2. Remove the upper plastic section of the Collar Frame from the dispenser.
3. Uninstall the customer display. Set the display and attaching hardware aside.

Retrofit Helix Headless G7 15 inch InvencoLink (US) Installation Guide

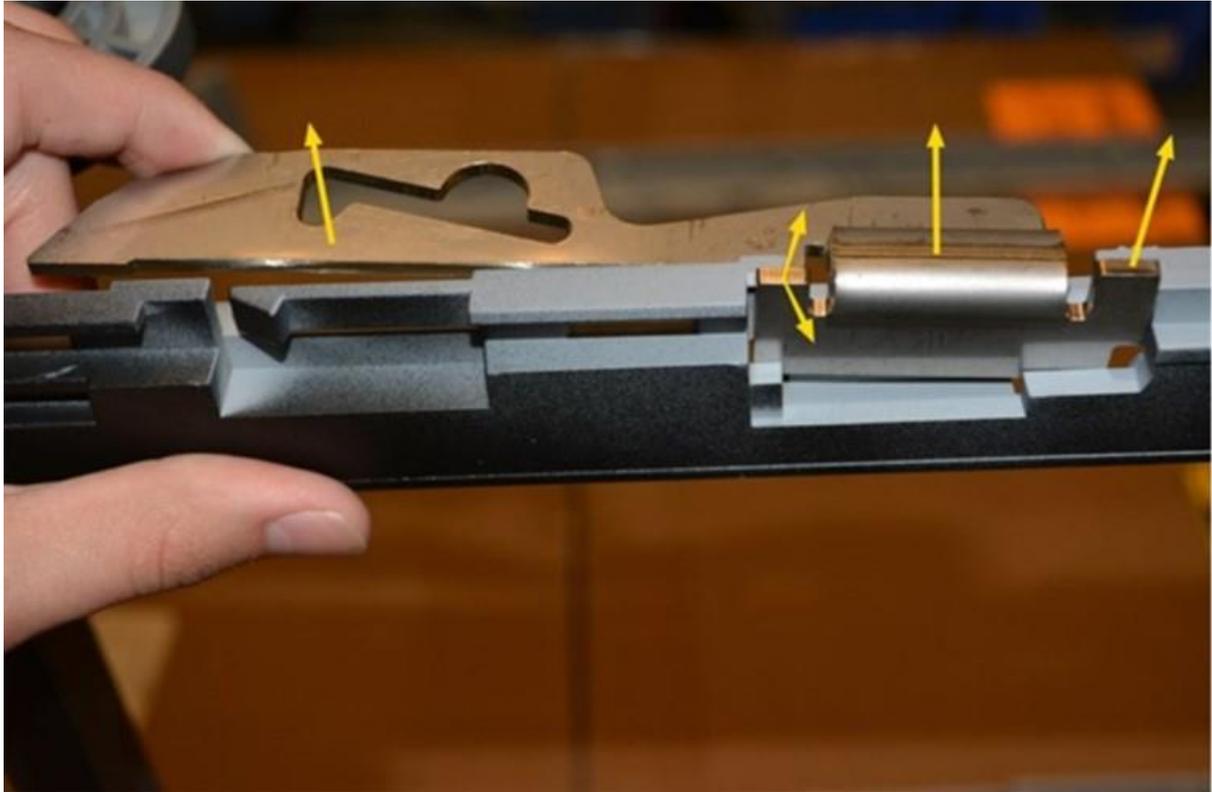


4. Uninstall the Prop Rod Bracket.
 - a. Turn the Upper Collar frame on its side with the Prop Rod Bracket facing up.



Retrofit Helix Headless G7 15 inch InvencoLink (US) Installation Guide

- b. Push up on the bracket while wiggling side to side until it clears the edge of the collar frame.



- c. Continue to push up on the bracket until it is fully removed. Retain the Prop Rod Bracket.

5. Discard the plastic section of the Collar Frame.
6. Repeat on the opposite side of the dispenser.

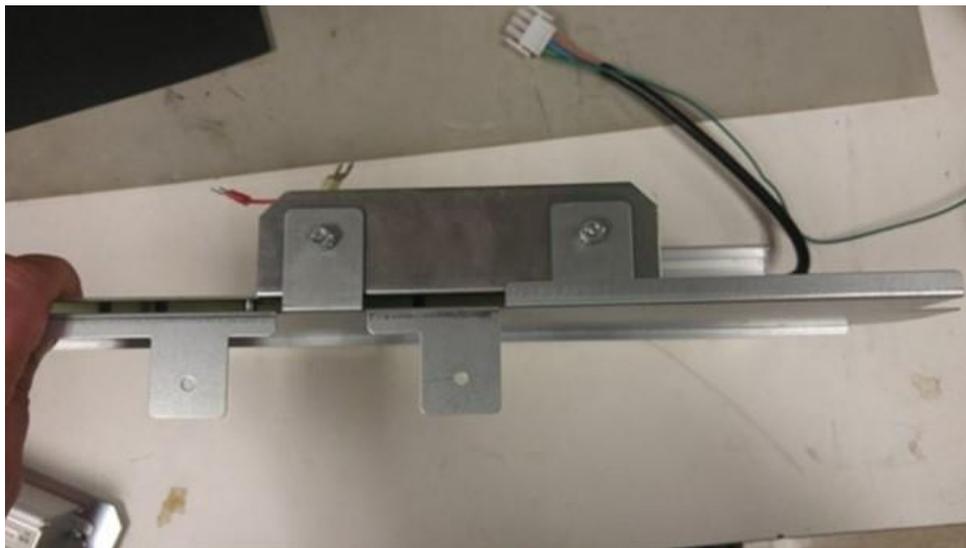
Proceed to the installation section.

Retrofit Helix Headless G7 15 inch InvencoLink (US) Installation Guide

4.2 Install the G7-15 Into the Wayne Helix

4.2.1 Prepare and Install the Helix Power Supply Assembly

1. Attach both PSU Plate Assemblies (PSU) EZ0702 to the Helix PSU Mounting Bracket MP0908.
 - a. Identify the stud wing on the PSU Plate Assembly labeled "Ovation". Install the Helix PSU Mounting Bracket to this wing.

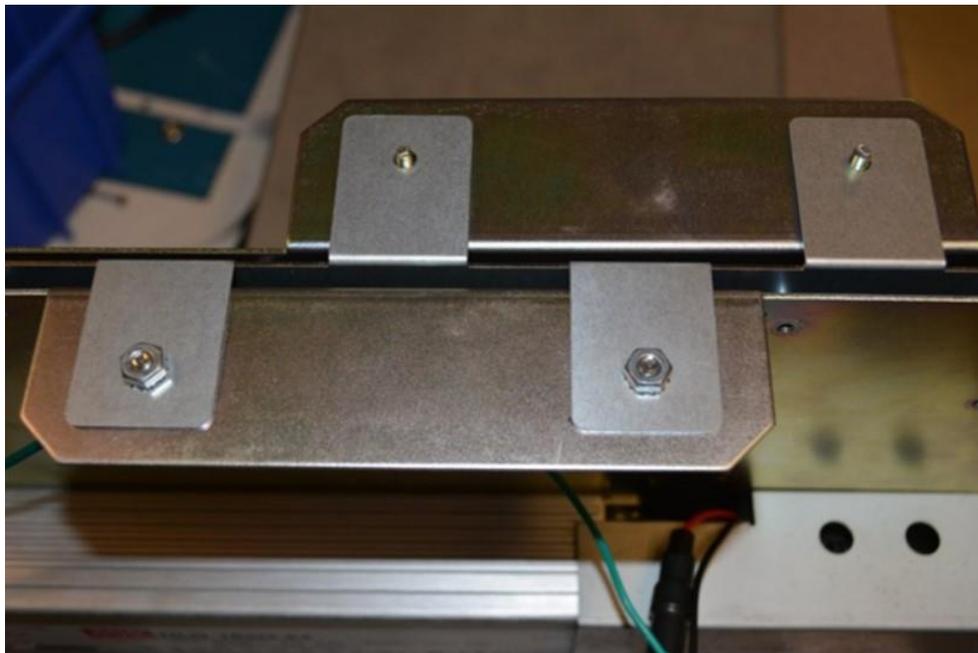


- b. Install PSU Screw A MS0249 into the back of the Helix PSU Mounting Bracket. Install the screw into the stud on one side and a PSU Screw B MS0146 (006-8611215) and nut MN0076 assembly on the other side.

Retrofit Helix Headless G7 15 inch InvencoLink (US) Installation Guide



- c. Flip over and attach the second PSU Assembly to the Helix PSU Mounting Bracket with the 2 x MN0029 nuts on the "Ovation" wing.



- d. Install the PSU Screw B, MS0146 and nut MN0076 assembly into the location below.

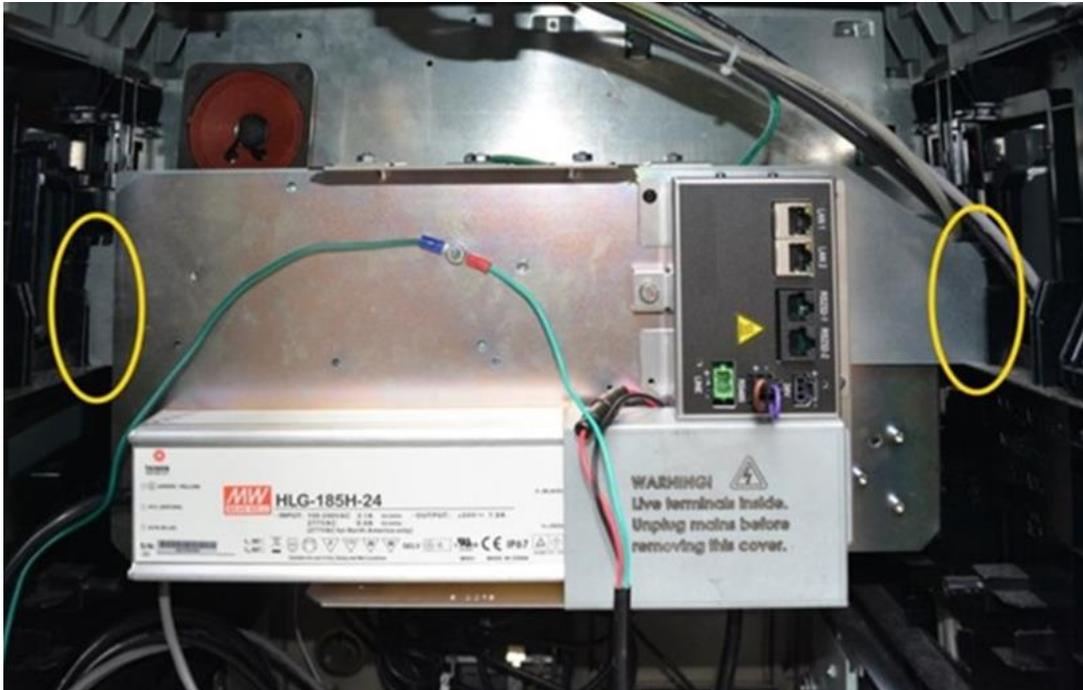
Retrofit Helix Headless G7 15 inch InvencoLink (US) Installation Guide

2. Install the Dispenser InvencoLink to one of the PSU brackets. Follow the InvencoLink Installation Instructions DCV-00465. Acquire the InvencoLink Retrofit Kit, UL Listed by Report Retrofit kit part number RF00033.

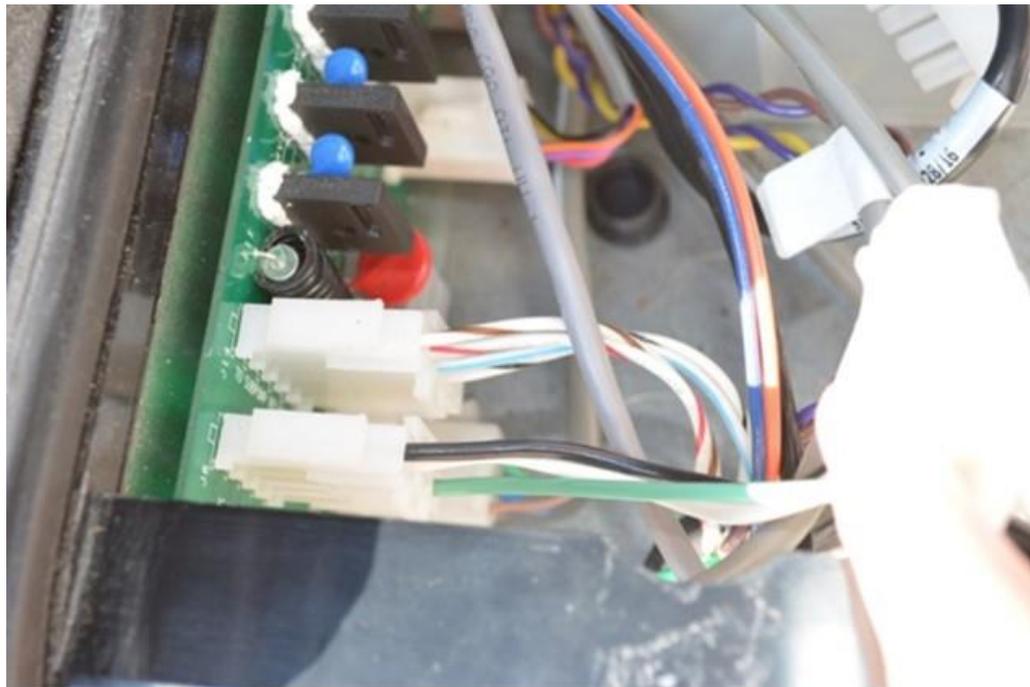


3. Install the Helix PSU Assembly with the Dispenser InvencoLink facing out towards you on the dispenser side opposite the pump controller board. Place the full Helix PSU Assembly into the dispenser cavity in the farthest back plastic bracket slots located in the center of the dispenser.

Retrofit Helix Headless G7 15 inch InvencoLink (US) Installation Guide

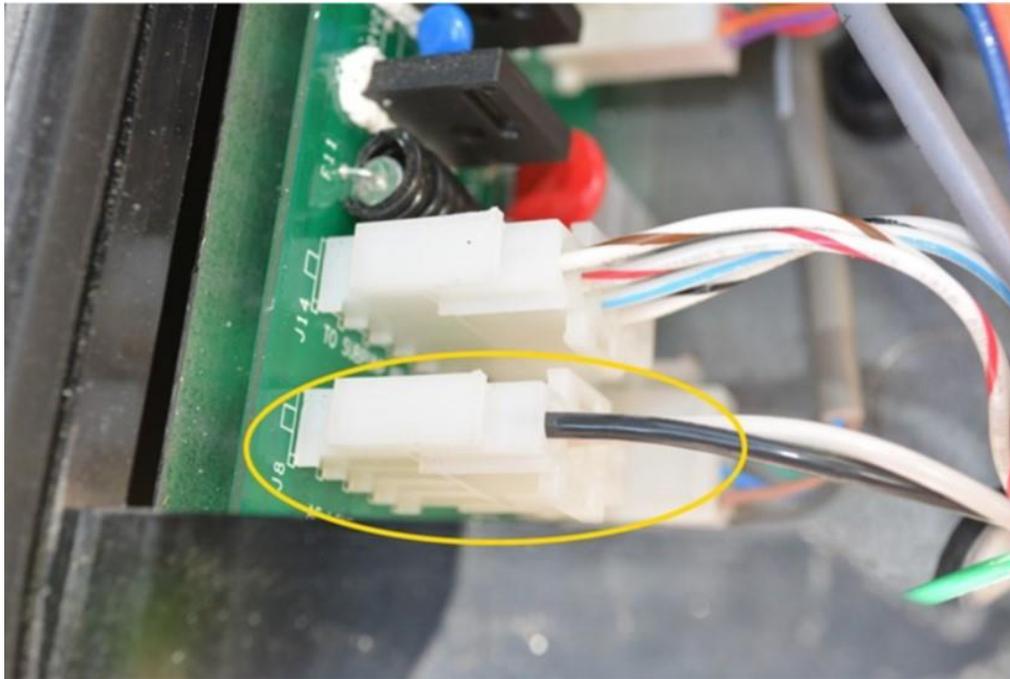


4. Connect Helix Power Adapter Cables EK0126 to the Main AC power in line in the lower dispenser electronic cavity.
 - a. On Side A of the dispenser, identify the main AC power in line connected to the Power board in the lower left side of the dispenser.

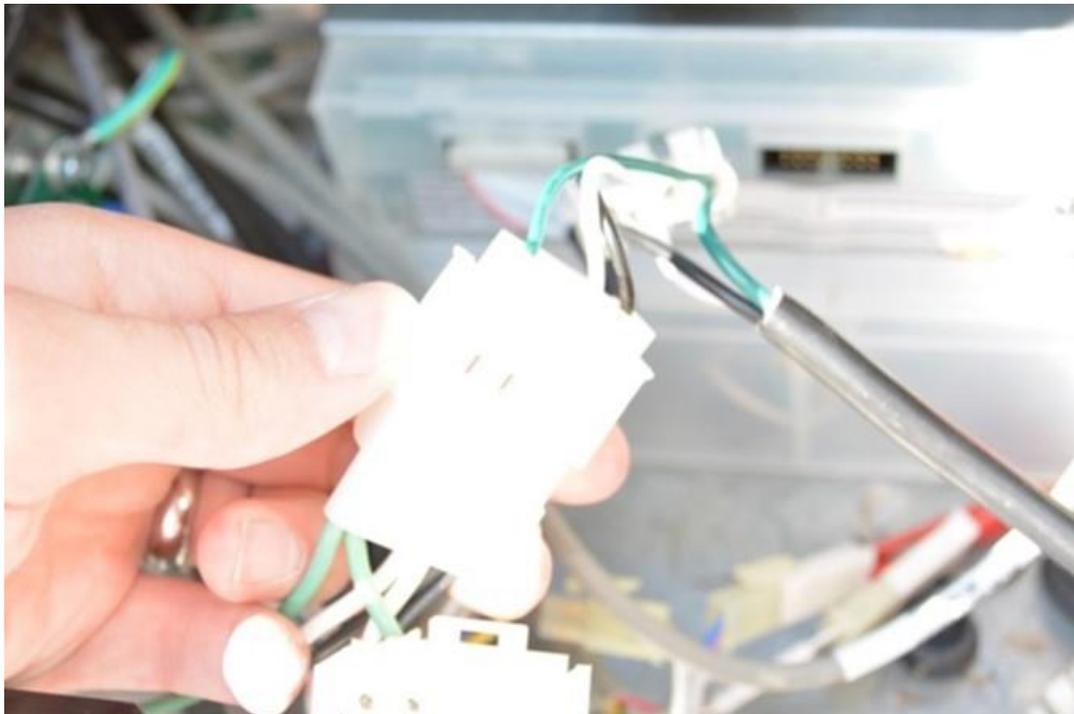


Retrofit Helix Headless G7 15 inch InvencoLink (US) Installation Guide

- b. Disconnect the main AC line.



- c. Acquire the Helix power adapter cable. Plug in the pigtail end of the cable to the main AC line.

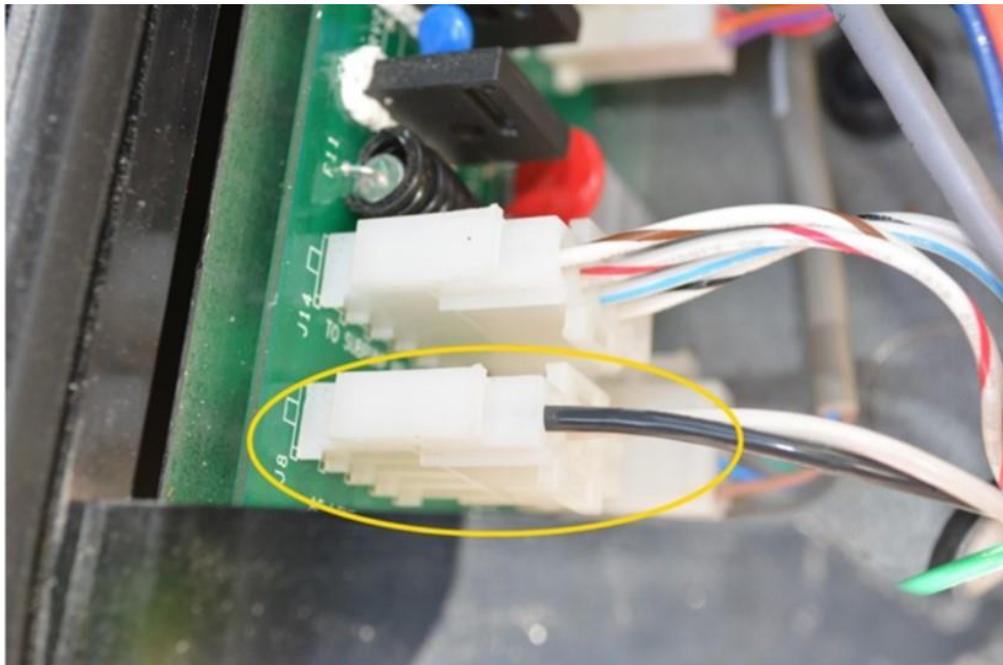


Retrofit Helix Headless G7 15 inch InvencoLink (US) Installation Guide

- d. Connect the second Helix power adapter cable to the other pigtail end of the first connected cable.



- e. Connect the free pigtail end of the Helix power adapter cable to the Main Power Distribution Board connection previously disconnected.



Retrofit Helix Headless G7 15 inch InvencoLink (US) Installation Guide

5. Route both Helix Power Adapter Cables into the upper dispenser cavity.
 - a. On Side A of the dispenser, identify the cable routing duct in the lower right corner of the dispenser.



- b. Route the power adapter cables through the cable routing duct into the upper electronic cavity.
-  **Note:** Use a length of wire or twine to help route the cables up the duct. Drop the wire or twine into the top of the duct, wrap/tie the wire or twine to the cable and guide into and up the routing duct.



Retrofit Helix Headless G7 15 inch InvencoLink (US) Installation Guide

6. Route the Helix Pump Comm Adapter Cable EK0203 into the wiring duct. Only one Comm Adapter Cable is needed per dispenser.
 - a. Acquire the Helix Pump Comm Adapter Cable and drop the dispenser connection end (white 4 pin connector) into the right side from side B cable routing duct.



Retrofit Helix Headless G7 15 inch InvencoLink (US) Installation Guide

- b. Route the comm connection through the cable routing duct and pull out from the bottom.



- c. Plug the four pin connector to the comm pass through on the comm board.



Retrofit Helix Headless G7 15 inch InvencoLink (US) Installation Guide

- d. Plug in the green connector to the Dispenser InvencoLink.



7. Connect the preinstalled PSU power cables to the previously routed Helix power adapter cables.



8. Install the Side Gasket Brackets EP0098.

Retrofit Helix Headless G7 15 inch InvencoLink (US) Installation Guide

- a. Acquire and place the first Side Gasket Bracket into the location indicated below. Determine the correct orientation by the markings "This Side Against Wall" and the curved edge facing up.



- b. Line up the end of the bracket with the side edge of the dispenser.



Retrofit Helix Headless G7 15 inch InvencoLink (US) Installation Guide

- c. Tuck in the gasket into the side bracket on the dispenser.

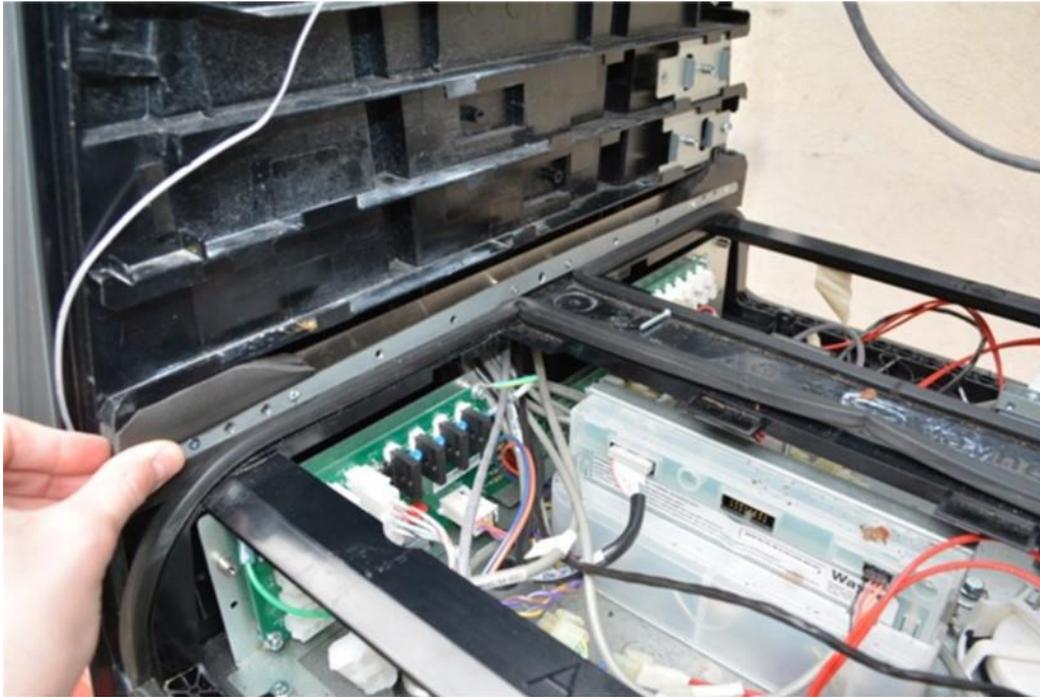


- d. Secure the bracket into place with the provided screw MS0255 .

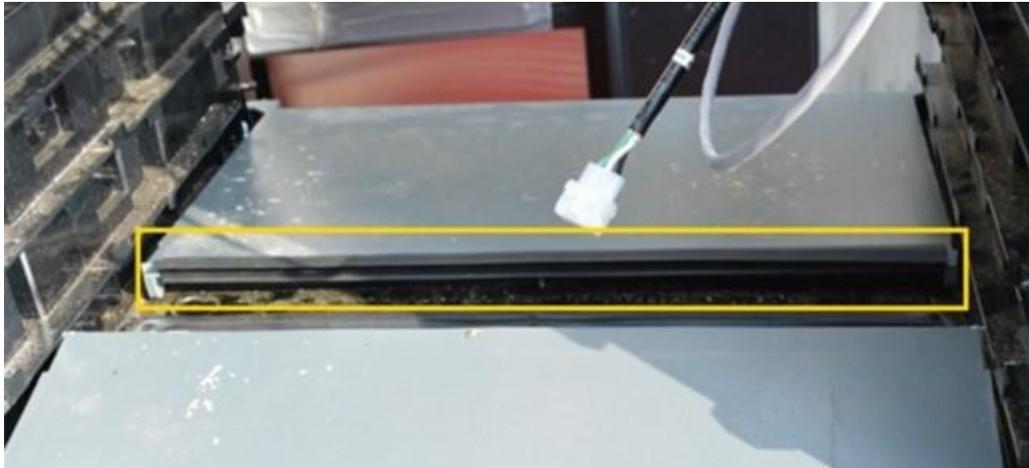


Retrofit Helix Headless G7 15 inch InvencoLink (US) Installation Guide

9. Repeat the previous steps to install the second Side Gasket Bracket to the other side of the dispenser.

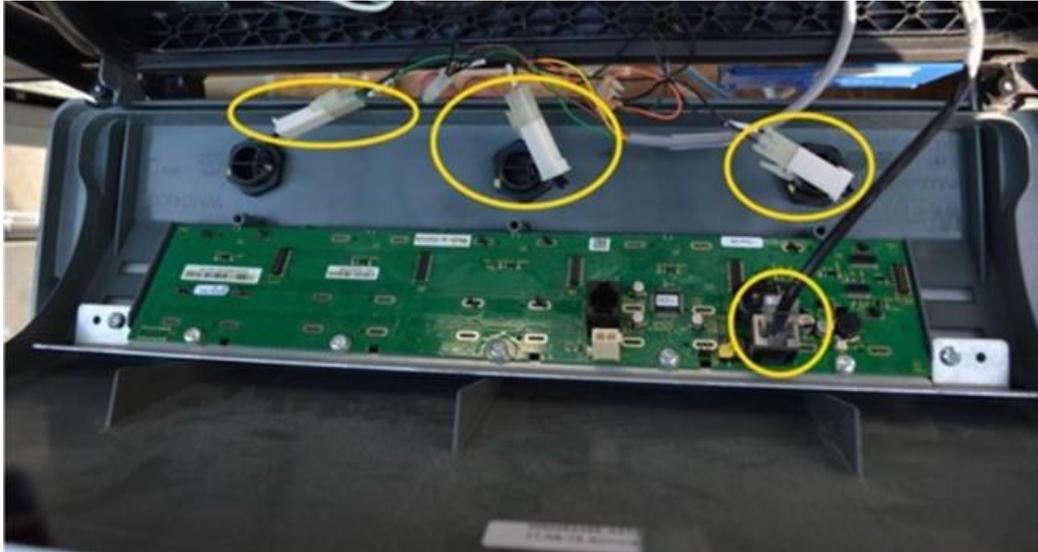


10. Reinstall the PPU L Covers.
 - a. Begin with the B Side L cover. reinstall the gasket strip before installing the L cover.



Retrofit Helix Headless G7 15 inch InvencoLink (US) Installation Guide

- b. Plug in all the PPU connections to their previously noted connections and reconnect the network cable.



- c. Rotate the cover into place in the dispenser and push the bottom edge of the cover until the lower snaps engage. Some resistance from the previously installed side gaskets is expected.



11. Repeat the previous steps for Side A of the dispenser.
12. Install the CAT network cables, Yellow for LAN EK0131 to the Dispenser InvencoLink.
- a. Connect the Side A connection in the LAN 1(Yellow).
Route the Side A connections over the opposite side to the communications board installed on Side A.

Retrofit Helix Headless G7 15 inch InvencoLink (US) Installation Guide



- b. Connect the Side B connection in the LAN 2(Yellow)/ connections.
Allow the B side network cables to fall into the B side dispenser cavity.

Note: The red ethernet cable shown above is not required for this kit, only the yellow ethernet cable is fitted.



Retrofit Helix Headless G7 15 inch InvencoLink (US) Installation Guide

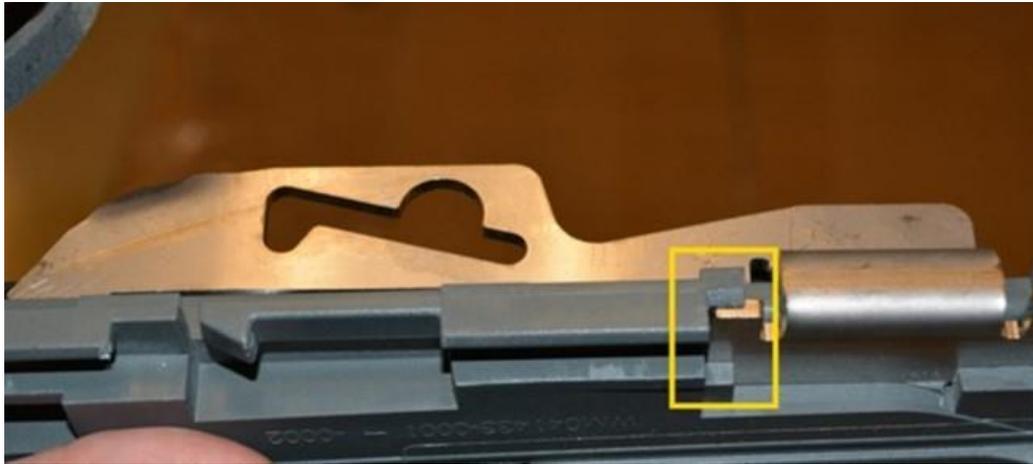
Note: The red ethernet cables shown above are not required for this kit, only the yellow ethernet cables are fitted.

4.2.2 Install the Collar Frame

1. Acquire the Plastic Upper Collar Frame MP0933. Install the retained Prop Rod bracket to the new plastic collar frame in the noted position from the uninstall process.
 - a. Place the retained Prop Rod Bracket into the new Plastic Collar Frame. Slide the end section into the gap indicated below.



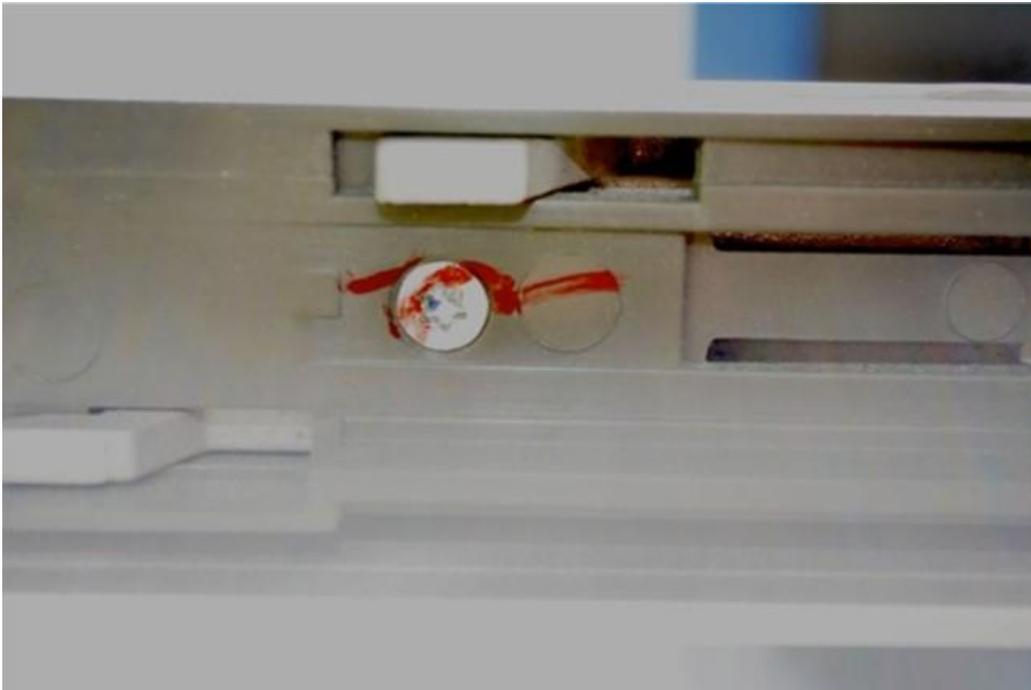
- b. Push in the Prop Rod Bracket until the retaining feature engages and holds the Bracket in place.

Retrofit Helix Headless G7 15 inch InvencoLink (US) Installation Guide

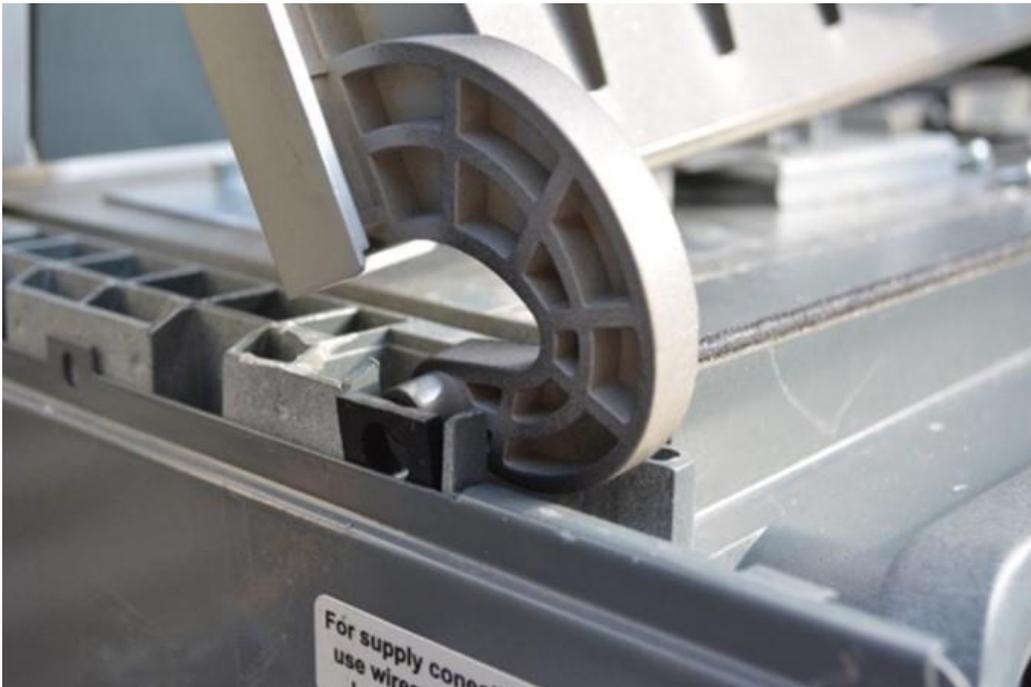
2. Slide the new top plastic collar frame into the lower metal collar frame until the latches on each side engage.



3. Secure the upper and lower frame collars together with the retained screws.

Retrofit Helix Headless G7 15 inch InvencoLink (US) Installation Guide

4. Place in the hinge pin section of the upper collar (MP0933) into the hinge.



5. Install the other hinge pin into the hinge and apply force until the hinge engages onto the hinge pin.

Retrofit Helix Headless G7 15 inch InvencoLink (US) Installation Guide

6. Repeat the previous steps for the opposite side of the dispenser.
7. Reinstall the dispenser shoulders over the hinges.
 - a. Both dispenser frames should be lowered and lifted until each shoulder piece on each side is in position.

Retrofit Helix Headless G7 15 inch InvencoLink (US) Installation Guide

- b. Apply force to the top of each shoulder until it seated into the top of the dispenser.



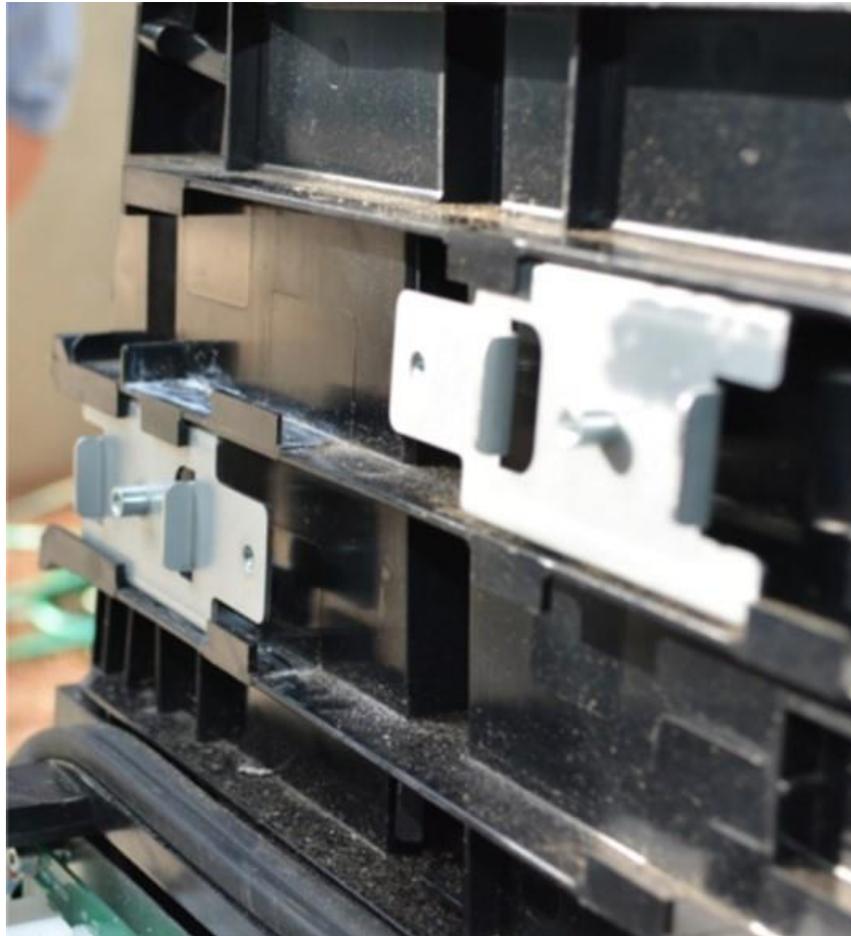
Retrofit Helix Headless G7 15 inch InvencoLink (US) Installation Guide

c. Reopen the dispenser frames and engage the prop rods after both shoulders are reinstalled.



4.2.3 Install the G7-15 Panel Hinge Brackets

1. Slide in the upper and lower slide brackets MP1132 into the dispenser's side channels.

Retrofit Helix Headless G7 15 inch InvencoLink (US) Installation Guide

- a. Begin with the left side of the dispenser. Slide in the bracket with the "arrow point" side of the slide bracket pointing toward the front of the dispenser and push all the way into the upper channel until the bracket butts against the rail edge.



Retrofit Helix Headless G7 15 inch InvencoLink (US) Installation Guide

- b. Make sure the bracket is past the catch. Install the Helix Attaching screw MS0162 which keeps the bracket in place against the end of the rail. Push back on the bracket to make sure the screw keeps it in place.



- c. Install the second slide bracket directly below the previously installed bracket with the "arrow point" opposite the upper bracket.

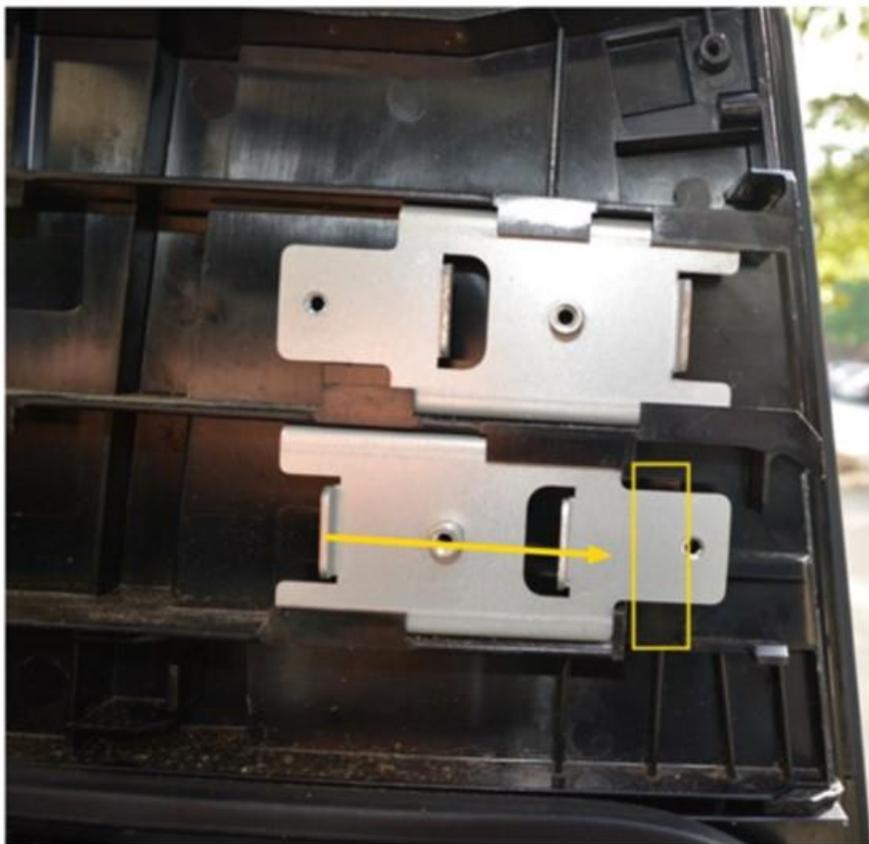


- d. Install the Side Mounting Plate MP0991 to the two sliding brackets. Attach using the provided screws MS0162. The bottom studs should be oriented to the bottom edge of the plate.

Retrofit Helix Headless G7 15 inch InvencoLink (US) Installation Guide

- e. Repeat the process for the right side of the dispenser. Slide in the bracket with the "arrow point" side of the slide bracket toward the front of the dispenser and push all the way into the lower channel until the bracket butts against the rail edge.

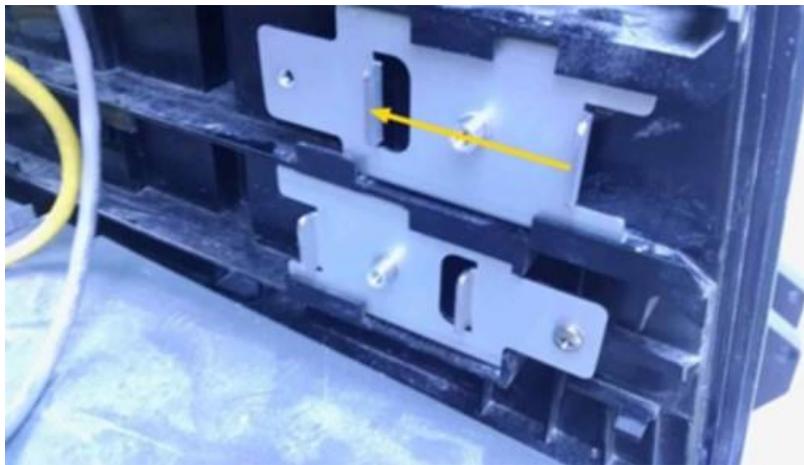
Retrofit Helix Headless G7 15 inch InvencoLink (US) Installation Guide



- f. Make sure the bracket is past the catch. Install the Helix Attaching screw MS0162 which keeps the bracket in place against the end of the rail. Push back on the bracket to make sure the screw keeps it in place.



- g. Install the second slide bracket directly above the previously installed slide bracket with the "arrow point" opposite the lower bracket.

Retrofit Helix Headless G7 15 inch InvencoLink (US) Installation Guide

- h. Install the Side Mounting Plate MP0991 with the provided screws MS0162 .



2. Repeat the previous steps on the opposite side of the dispenser.
3. Install the G7-15 Panel Dispenser Tether Brackets MP0990 (2 per side of the dispenser) to each side of the upper mounting slot in the dispenser electronic cavity with the provided screw MS0245.

Retrofit Helix Headless G7 15 inch InvencoLink (US) Installation Guide



4. Repeat the previous steps on the opposite side of the dispenser.

4.2.4 Prepare to Install the G7-15 Panel

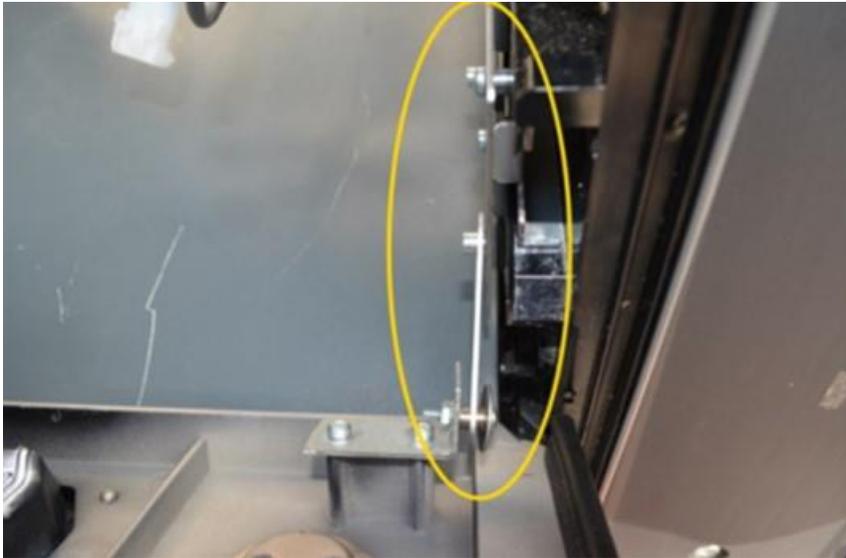
1. Install the UL Listed by Report Retrofit Kit RF00025-XX Helix Printer Kit to the G7-15 inch RFK panel following the Helix Printer Kit Installation Instructions DCV-00541.
2. Install the Customer Display onto the G7 Helix Headless Panel RF00075- XX.
 - a. Install the Customer Display, noting the orientation is correct and upright with the retained screws. The fourth screw is with the customer display grounding wire.



Retrofit Helix Headless G7 15 inch InvencoLink (US) Installation Guide

- Place in the G7 Helix Headless panel and rest on the PPU L Covers. Attach the lower hinge brackets to the previously installed side mounting plate with the provided washers MW0059 and screws MS0162.

 **Note:** Continue to support the G7 Helix Headless Panel until the Tethers have been installed and are supporting the panel.



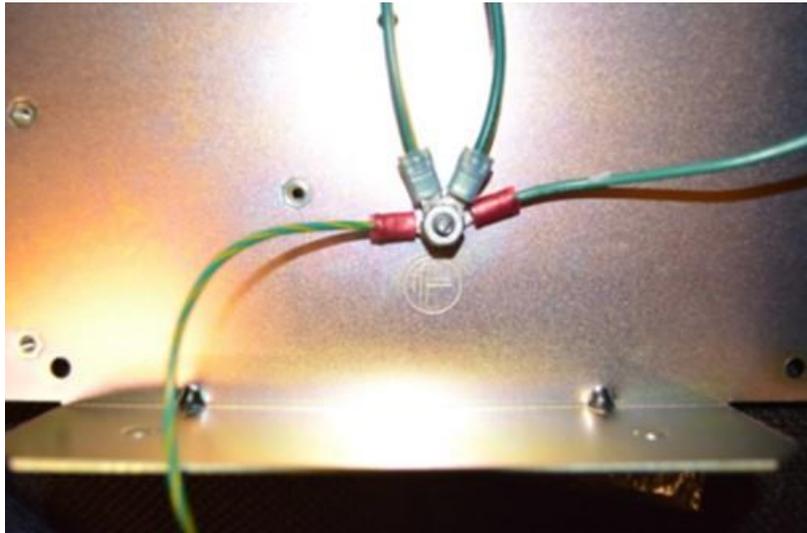
- Lift up the G7-15 Panel until the tethers can be attached to the previously installed dispenser tether brackets. Attach both tethers using the provided washers MW0059 and screws MS0162.



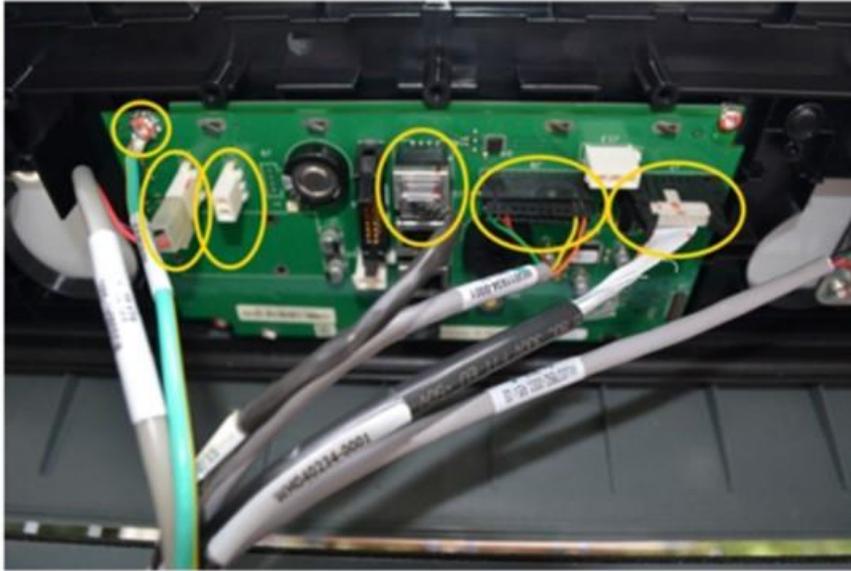
- Install the power cable, network cables, and grounding wire to the G7 Helix Headless Panel components.
 - Plug in the power cable (preinstalled on the PSU) and Yellow LAN Cable, to the G7-15.

Retrofit Helix Headless G7 15 inch InvencoLink (US) Installation Guide

- b. Attach the printer grounding wire to the PSU grounding stud. Remove the existing grounding nut, install the printer grounding wire, and reinstall the nut. Repeat for the second printer and install the grounding wire to the same grounding stud as the first printer.



- c. Push in the G7 15 inch Panel until the customer display cables, grounding wire, and comm speaker (if present) can be connected or installed using the retained hardware. Install the grounding wire and customer display cables to the customer display to the previously noted locations.

Retrofit Helix Headless G7 15 inch InvencoLink (US) Installation Guide

6. Route all cabling away from sharp edges and gaskets (including the tether cables) prior to closing the G7 Helix Headless Panel. Rotate the G7 Helix Headless Panel into its resting position against the dispenser frame and secure with the pre-fitted 7/8" long captive screws .



Retrofit Helix Headless G7 15 inch InvencoLink (US) Installation Guide

7. Lower the Frame Collar and lock into place.



8. Repeat for Side B.
9. Return Power to the dispenser.



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