Retrofit G7 NFC to SCC Upgrade Kit (US & Canada) Installation Guide

Kit Part Numbers	Brief Description
RF00093-XX	G7 NFC to SCC Upgrade Kit

	Document Number	DCV-00592
iNVENCO®	Date Released	Jul. 2021
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Retrofit G7 NFC to SCC Upgrade Kit (US & Canada) Installation Guide

Release History

Version	Prepared by	Date	Change description
0	Jojie Adigue & Michael Doh	06-Apr-2021	Initial Release
1	Michael Doh	02-Jun-2021	Updates from UL review
2	Michael Doh	30-Jul-2021	Revised installation wiring connections

	Document Number	DCV-00592
	Date Released	Jul. 2021
	Revision Number/Security level	R02 S2

Retrofit G7 NFC to SCC Upgrade Kit (US & Canada) Installation Guide

Contents

1 Introduction

This documentation provides some basic guidelines for the removal of the G7 NFC module from an existing G7 Outdoor Payment Terminal (OPT) system Retrofit kit installation and the replacement with the G7 SCC (P2-400) module.

- G7 NFC to SCC Upgrade Kit
  Kit part number: RF00093-XX

This Retrofit kit can only be installed into a dispenser which has been retrofitted with one of the following specific "UL Listed by Report Retrofit Kits".

MH61528	RF00028-XX	Wayne Ovation 1, with G7, BLACK (US & Canada)
MH61528	RF00080-XX	Wayne Ovation 1, with G7, Painted (US & Canada)
MH61528	RF00021-XX	Wayne Ovation 1, with G7 15 inch SDC, BLACK (US & Canada)
MH61528	RF00048-XX	Wayne Ovation 1, with G7 15 inch SDC, Painted (US & Canada)
MH61528	RF00029-XX	Gilbarco Encore 500S, 700S, with G7, BLACK (US)
MH61528	RF00030-XX	Gilbarco Encore 500S, 700S, with G7, BLACK (US & Canada)
MH61528	RF00023-XX	Gilbarco Encore 500S, 700S, with G7 15 inch SDC, BLACK (US)
MH61528	RF00061-XX	Gilbarco Encore 500S, 700S, with G7 15 inch SDC, Color (US)
MH61528	RF00011-XX	Gilbarco Encore 500S, 700S, with G7 15 inch SDC, GREY, (US)
MH61528	RF00031-XX	Gilbarco Encore 500S, 700S, with G7 15 inch SDC, BLACK (US & Canada)
MH61528	RF00022-XX	G7 15 inch (SDC, APC, UPC, NFC) - Wayne Ovation 2, Black (US)
MH61528	RF00059-XX	G7 15 inch (SDC, APC, UPC, NFC) - Wayne Ovation 2, Black (US)
MH61528	RF00062-XX	G7 (SDC, APC, UPC, NFC) - Wayne Ovation 2, Black (US)
MH61528	RF00014-XX	Wayne Helix Standard, with G7 15 inch SDC, BLACK (US & Canada)
MH61528	RF00063-XX	Wayne Helix Standard, with G7 SDC, BLACK (US & Canada)
MH61528	RF00015-XX	Vista 4V, with G7 8 inch SDC
MH61528	RF00016-XX	Vista 3V converted to 4V, with G7 8 inch SDC
MH61882 &	6002-0003-8801	Optic 12 Standard (SDC, APC, UPC, NFC) - Wayne Helix

	Document Number	DCV-00592
iNVENCO®	Date Released	Jul. 2021
	Revision Number/Security level	R02 S2

Retrofit G7 NFC to SCC Upgrade Kit (US & Canada) Installation Guide

MH61528		(Headless)
MH61882 & MH61528	6002-0004-8801	Optic 12 Standard (SDC, APC, UPC, NFC) - GVR Encore 300/500, Black
MH61882 & MH61528	6002-0005-8801	Optic 12 Standard (SDC, APC, UPC, NFC) - GVR Encore 500s Non-ECIM, Black
MH61882 & MH61528	6002-0006-8801	Optic 12 Standard (SDC, APC, UPC, NFC) - Wayne Ovation II, Black
MH61882 & MH61528	6002-0007-8801	Optic 12 - Wayne Helix, CRIND (Standard)

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.

	Document Number	DCV-00592
	Date Released	Jul. 2021
	Revision Number/Security level	R02 S2

iNVENCO®

Retrofit G7 NFC to SCC Upgrade Kit (US & Canada) Installation Guide

1.1 Tools Required

The following tools are required to install the G7 SCC module:

- Philips #1 screwdriver
- Philips #2 screwdriver
- Philips #2 torque driver
- M3 nut socket torque driver
- 7mm nut socket torque driver
- Sticky residue cleaner
- Cleaning rag
- Flat bladed scraper or a putty knife
- 100% Isopropyl Alcohol (IPA) cleaner solution

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

	Document Number	DCV-00592
iNVENCO®	Date Released	Jul. 2021
	Revision Number/Security level	R02 S2

Retrofit G7 NFC to SCC Upgrade Kit (US & Canada) Installation Guide

1.2 Installation Kit Contents

1.2.1 G7 NFC SCC Upgrade Kit (RF00093-XX):

Unpack the G7 NFC to SCC Upgrade Kit (RF00093-XX) and check that all the parts listed below are present.

Retrofit Kit Contents		
Part Number	Description	Illustration
1 x IP0160	G7 SCC module (P2-400) Including the panel mounting gasket (MP0194) and locking nut (MN0096) already fitted in the rear of the module	

2 Safety & Compliance Information

This section introduces the hazards and safety precautions associated with installing, inspecting, maintaining or servicing the G7 NFC to SCC Upgrade Kit. Before proceeding, check the relevant hazard and safety information. Fire, explosion or electrical shock could occur and cause death or serious injury if these safe service procedures are not followed.

2.1 Preliminary Precautions

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

2.2 Emergency Total Electrical Shut-Off

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

2.3 Total Electrical Shut-Off Before Access

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

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.

	Document Number	DCV-00592
iNVENCO®	Date Released	Jul. 2021
	Revision Number/Security level	R02 S2

Retrofit G7 NFC to SCC Upgrade Kit (US & Canada) Installation Guide

2.6 Follow the Regulations

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

2.7 Replacement Parts

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

3 Safety Symbols and Terminology

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

Signal Words

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

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

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

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

Working With Fuels and Electrical Energy

3.1 Prevent Explosions and Fires

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

	Document Number	DCV-00592
iNVENCO®	Date Released	Jul. 2021
	Revision Number/Security level	R02 S2

Retrofit G7 NFC to SCC Upgrade Kit (US & Canada) Installation Guide

3.1.1 No Open Flames

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

3.1.2 No Sparks - No Smoking

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

3.1.3 Working Alone

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

3.1.4 Working with Electricity Safety

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

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

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

3.1.5 Hazardous Materials

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

	Document Number	DCV-00592
iNVENCO®	Date Released	Jul. 2021
	Revision Number/Security level	R02 S2

Retrofit G7 NFC to SCC Upgrade Kit (US & Canada) Installation Guide

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 SCC module (P2-400) has UL File References of E469526 and E480135 and carries a label similar to this:
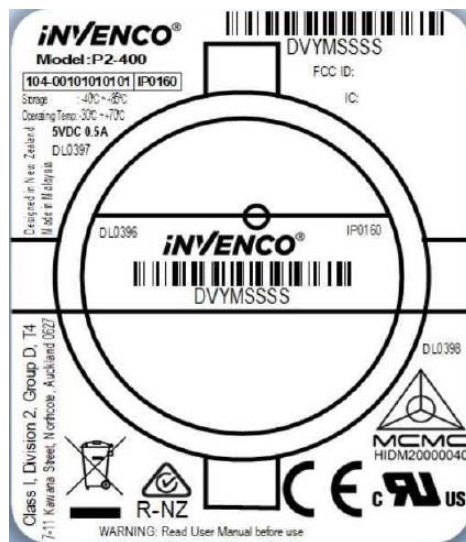
The Invenco Retro-Fit Kit has UL File Reference of MH61528.

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.

	Document Number	DCV-00592
iNVENCO®	Date Released	Jul. 2021
	Revision Number/Security level	R02 S2

Retrofit G7 NFC to SCC Upgrade Kit (US & Canada) 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.

This section covers the processes relevant to the removal of the existing G7 NFC module and the installation of the new G7 SCC (P2-400) module:

- Opening of the dispenser.
- Unplugging and removal of the existing G7 NFC module.
- Installation of the new G7 SCC (P2-400) module
- Closing of the dispenser

	Document Number	DCV-00592
iNVENCO®	Date Released	Jul. 2021
	Revision Number/Security level	R02 S2

Retrofit G7 NFC to SCC Upgrade Kit (US & Canada) Installation Guide

4.1 Opening the dispenser

4.1.1 Opening the Wayne Ovation 1 or Ovation 2 dispenser

1. At the main disconnect panel, disconnect all power to the dispenser and the pump servicing the dispenser. Tag all disconnected breakers to prevent others from reconnecting power.

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

Location of the Security Bolts

3. Open the door fully until it locks into place. Engage the prop rod if there is one:

4. Proceed to section 4.2: Removal of the existing G7 NFC module

4.1.2 Opening the GVR Encore 500S or 700S dispenser

1. At the main disconnect panel, disconnect all power to the dispenser and the pump servicing the dispenser. Tag all disconnected breakers to prevent others from reconnecting power.

2. Unlock and remove the lower panel door with the "GBCO" key. Set it aside. Do not discard the lower door. It will be re-installed later during the installation procedure.
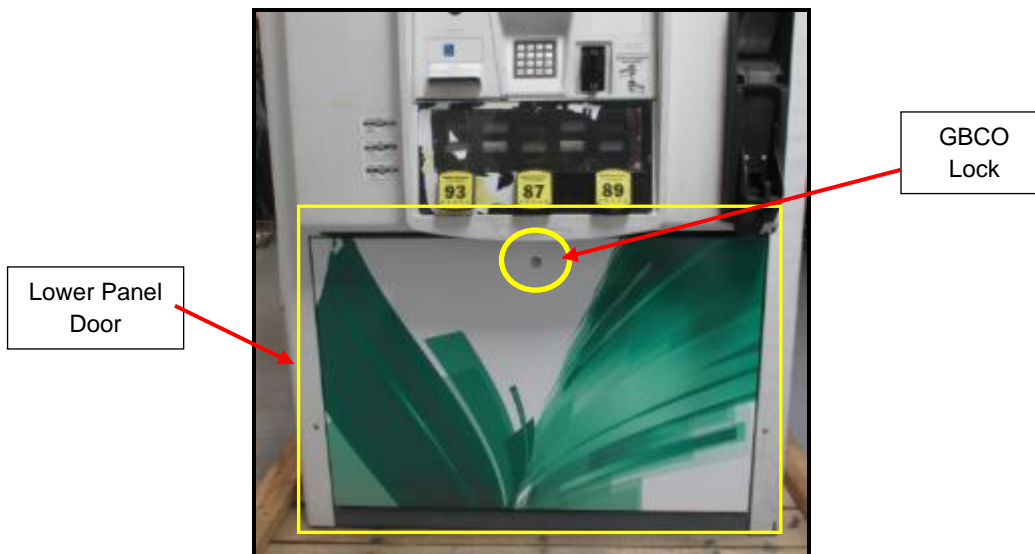
Location of Panel Door and Lock

3. Undo the lower door latch located underneath the left-hand side of the Main Dispenser Door.
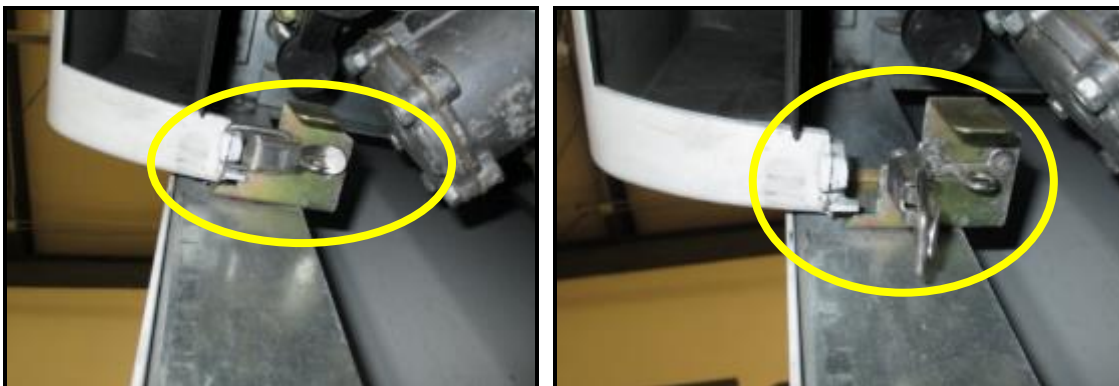
4. Unlock the main dispenser door lock located on the upper left-hand side of the Main Dispenser Door using the "CH 751" key. Open the door until it locks into its fully open position.

5. Proceed to section 4.2: Removal of the existing G7 NFC module

	Document Number	DCV-00592
iNVENCO®	Date Released	Jul. 2021
	Revision Number/Security level	R02 S2

Retrofit G7 NFC to SCC Upgrade Kit (US & Canada) Installation Guide

4.1.3   Opening the Wayne Helix Standard dispenser

1. At the main disconnect panel, disconnect all power to the dispenser and the pump servicing the dispenser. Tag all disconnected breakers to prevent others from reconnecting power.

2. Open the dispenser. Using the provided key for the dispenser, unlock the lower metal frame on the Helix dispenser.

3. Raise the dispenser collar frame and place the Prop Rod in the upper right corner to hold up the dispenser collar frame.

4. Loosen the two captive screws on each side of the G7 Helix Standard RFK panel (using a #2 Philips screwdriver).

5. Carefully and slowly start to pull out the G7 Helix Standard RFK panel (the slide rails will extend out), until it is partially open as much as possible without stretching the connected cables.

	Document Number	DCV-00592
	Date Released	Jul. 2021
	Revision Number/Security level	R02 S2

Retrofit G7 NFC to SCC Upgrade Kit (US & Canada) Installation Guide

6. On the PPU Board located on the lower part of the G7 Helix Standard RFK panel, mark/label and temporarily unplug the PPU (up to 5 PPUs may be included depending on the configuration), Grade Select Button, totalizers (if present), and Call/Intercom Button (if present on PPU panel) connections.

7. On the Helix Customer Display located on the upper part of the G7 Helix Standard RFK panel, mark/label and temporarily unplug the customer display cables and comm speaker (if present) connections and unscrew the grounding wire screw using a T7 Torex driver.
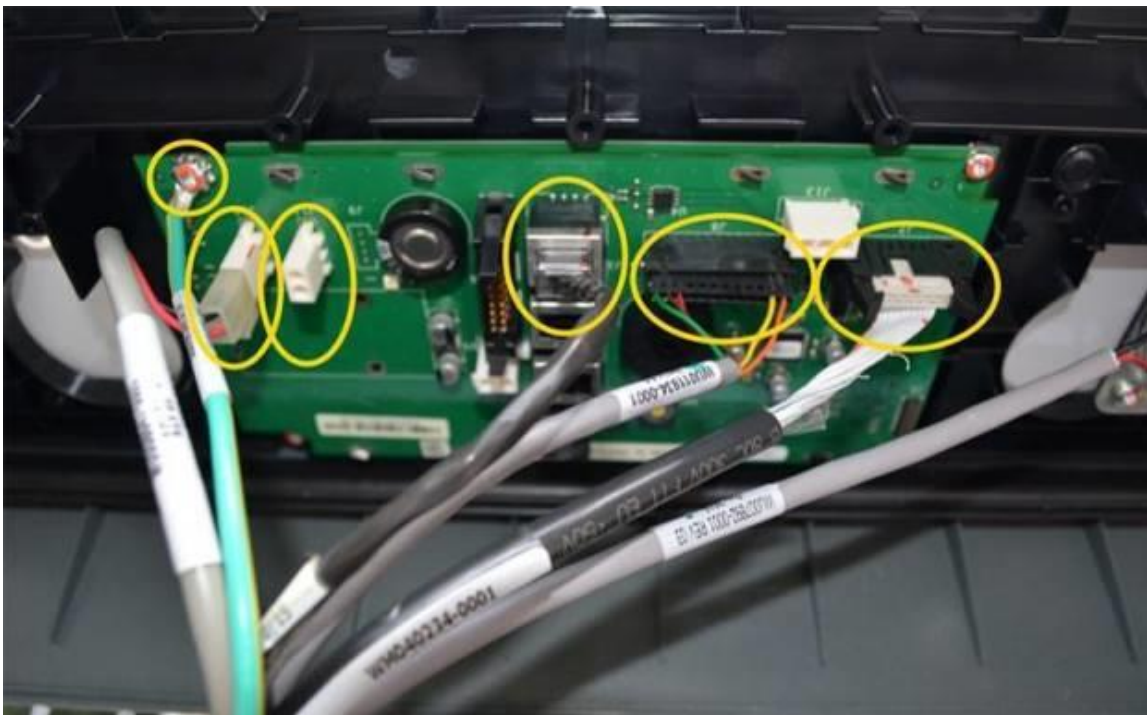
8. Pull out the G7 Helix Standard RFK panel further until the slide rail extends out (as allowed up to the slide rail stop). Then proceed to section 4.2: Removal of the existing G7 NFC module.
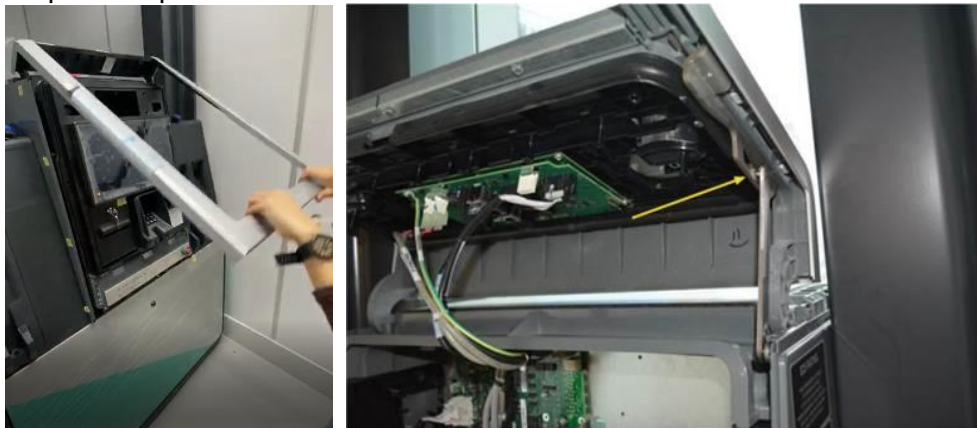
	Document Number	DCV-00592
iNVENCO®	Date Released	Jul. 2021
	Revision Number/Security level	R02 S2

Retrofit G7 NFC to SCC Upgrade Kit (US & Canada) Installation Guide

4.1.4 Opening the Wayne Helix Headless dispenser

1. At the main disconnect panel, disconnect all power to the dispenser and the pump servicing the dispenser. Tag all disconnected breakers to prevent others from reconnecting power.

2. Open the dispenser. Using the provided key for the dispenser, unlock the lower metal frame on the Helix dispenser.

3. Raise the dispenser collar frame and place the Prop Rod in the upper right corner to hold up the dispenser collar frame.

	Document Number	DCV-00592
iNVENCO®	Date Released	Jul. 2021
	Revision Number/Security level	R02 S2

Retrofit G7 NFC to SCC Upgrade Kit (US & Canada) Installation Guide

4. Loosen the two captive screws on each side of the G7 Helix Headless RFK panel (using a #2 Philips screwdriver).
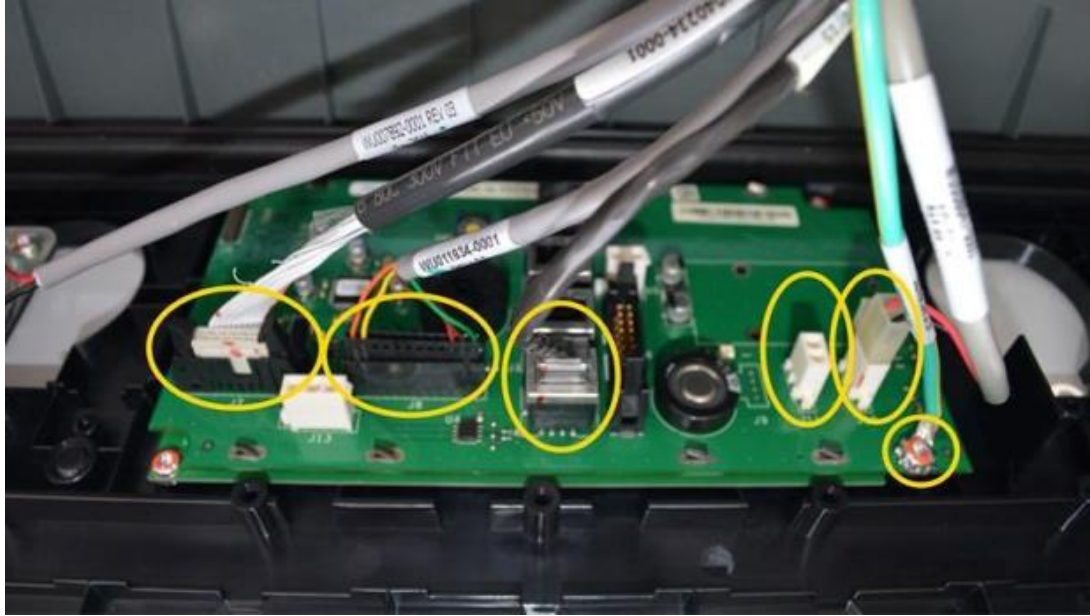

5. Lower the G7 Helix Headless RFK panel.

6. On the Helix Customer Display located on the upper part of the G7 Helix Headless RFK panel, mark/label and temporarily unplug the customer display cables and comm

speaker (if present) connections and unscrew the grounding wire screw using a T7
Torex driver.

7. Detach the two side tethers using a Philips head screwdriver. Retain the tether
   attaching screws and washers for later reinstallation, then proceed to section 4.2:
   Removal of the existing G7 NFC module.
   NOTE: Continue to support the G7 Helix Headless RFK panel while the tether is
   detached.

	Document Number	DCV-00592
iNVENCO®	Date Released	Jul. 2021
	Revision Number/Security level	R02 S2

Retrofit G7 NFC to SCC Upgrade Kit (US & Canada) Installation Guide

4.1.5 Opening the GVR Encore 300/500 or Encore 500S Non-ECIM dispenser

1. At the main disconnect panel, disconnect all power to the dispenser and the pump servicing the dispenser. Tag all disconnected breakers to prevent others from reconnecting power.

2. Unlock and remove the lower panel door with the "GBCO" key. Set it aside. Do not discard the lower door. It will be re-installed later during the installation procedure.

3. Undo the bottom latch.

4. Unlock the main door and open the door until it locks into its fully open position.

5. Proceed to section 4.2: Removal of the existing G7 NFC module

	Document Number	DCV-00592
iNVENCO®	Date Released	Jul. 2021
	Revision Number/Security level	R02 S2

Retrofit G7 NFC to SCC Upgrade Kit (US & Canada) Installation Guide

4.1.6 Opening the Vista 4V or 3V converted to 4V dispenser

1. At the main disconnect panel, disconnect all power to the dispenser and the pump servicing the dispenser. Tag all disconnected breakers to prevent others from reconnecting power.

2. Open the dispenser by unscrewing one screw. A security lock may be present (will not be replaced).

Vista 4V Wide Frame dispenser shown.

Using Wayne Key

Alternative: Use T40 Security Torx Key

3. Proceed to section 4.2: Removal of the existing G7 NFC module

4.2 Removal of the existing G7 NFC module

1. Identify the existing G7 NFC module. It is typically fitted around the side of the dispenser door panel and next to the ADA module or a blank panel.

G7 NFC Module:

Fitted location on Ovation 1 or 2:

Fitted location on Encore 500S/700S, Encore 300/500 or Encore 500S Non-ECIM:

Fitted location on Helix standard or headless:

Fitted location on Vista 4V or 3V converted to 4V:

2. Trace the two cables from the back of the NFC module to the two NFC connectors (contactless RF and contactless LED) on the keypad (UPC) module and unplug the two connectors.

Contactless RF connector:

	Document Number	DCV-00592
	Date Released	Jul. 2021
iNVENCO®	Revision Number/Security level	R02 S2

Retrofit G7 NFC to SCC Upgrade Kit (US & Canada) Installation Guide

Contactless LED connector:
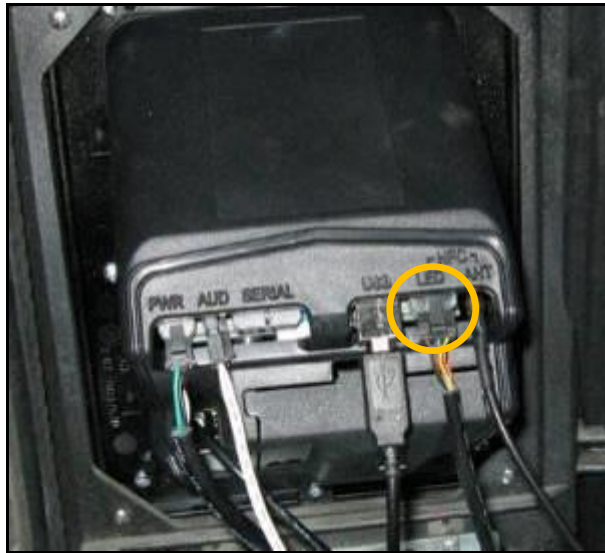
3. Identify the APC module mounted on the rear of the display (SDC) module. From the APC module, unplug the USB cable plugged in the "USB-L" socket. Trace the other end of this same cable and unplug from the "APC-USB" socket on the display (SDC) module. This cable is no longer required and can be discarded.

- "USB-L" socket on the APC module:
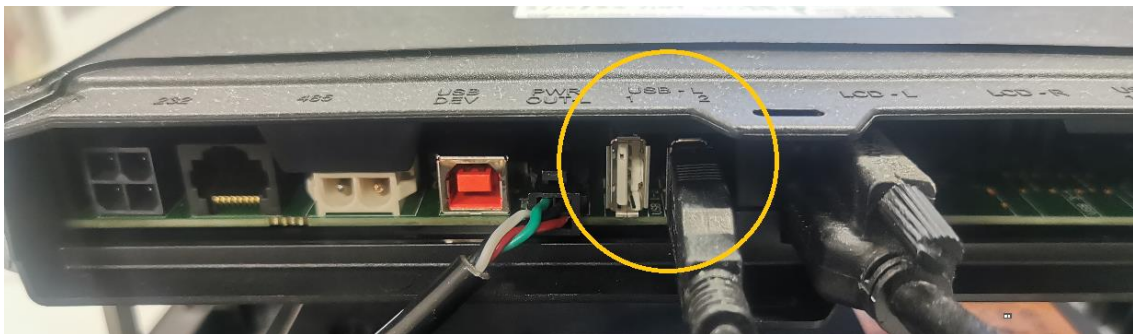
- For the G7-100 SDC (12 inch display) "APC-USB" connector socket:

	Document Number	DCV-00592
iNVENCO®	Date Released	Jul. 2021
	Revision Number/Security level	R02 S2

Retrofit G7 NFC to SCC Upgrade Kit (US & Canada) Installation Guide

- For the G7-100 SDC-15 (15 inch display) or the G7-100 SDC-08 (8 inch display) "APC-USB" connector socket:

4. Remove the NFC module from the RFK panel by undoing the nut lock by turning it anti-clockwise by hand and pushing the module out and pulling the attached cables out through the same opening. The nut and the NFC module are no longer required and can be discarded.

   NOTE: Return the old G7 NFC module to Invenco for secure disposal.

5. Repeat from "Section 4.1: Opening the dispenser" through to step 4 of "Section 4.2: Removal of the existing G7 NFC module" for the other side of the dispenser for double sided dispensers.

4.3 Installation of the new G7 SCC module (P2-400)

This section follows from the previous removal procedures, and assumes the pump is still open.
References to "left-hand" and "right-hand" are as viewed into the pump on the Side you are working on.

1. Identify the new replacement G7 SCC module (IP0160) from the upgrade kit RF00093-XX. Remove from the packaging.

2. Ensure that the mounting gasket (MP0194) is fitted and aligned correctly in the module (no folds or squashed parts etc…).

3. Temporarily remove the lock nut that is pre-fitted on the SCC module.
    Note: The old nut lock that was fitted to the old NFC module does not fit and must not be used (This should have already been discarded in step 4 of section 4.2).

	Document Number	DCV-00592
iNVENCO®	Date Released	Jul. 2021
	Revision Number/Security level	R02 S2

Retrofit G7 NFC to SCC Upgrade Kit (US & Canada) Installation Guide

4. Fit the new SCC module into the same opening as where the old NFC module was fitted (as identified in step 1 of section 4.2). Push the attached cables in through the opening first and ensure that the module is fitted in the correct orientation by checking that the "Invenco" logo is at the bottom and upright.

5. Fit the nut lock (which was temporarily removed) in through the end of the cables attached to the SCC and secure the module in position by turning the nut lock clockwise until tight.

	Document Number	DCV-00592
iNVENCO®	Date Released	Jul. 2021
	Revision Number/Security level	R02 S2

Retrofit G7 NFC to SCC Upgrade Kit (US & Canada) Installation Guide

6. Ensure that the SCC module is aligned and fitted correctly.

7. Trace the two cables from the back of the SCC module to the two USB connectors. Identify each connector type and plug the connectors into the appropriate USB sockets on the other G7 modules as follows:

Type A USB connector:

Insert the type A USB connector into the "USB-L" socket on the back of the APC module (the same socket which had the existing USB cable unplugged in step 3 of section 4.2):

	Document Number	DCV-00592
iNVENCO®	Date Released	Jul. 2021
	Revision Number/Security level	R02 S2

Retrofit G7 NFC to SCC Upgrade Kit (US & Canada) Installation Guide

Type B USB connector:

Insert the Type B connector into the "APC-USB" socket on the display (SDC) module (the same socket which had the existing USB cable unplugged in step 3 of section 4.2).

- For the G7-100 SDC (12 inch display) "APC-USB" connector socket:

- For the G7-100 SDC-15 (15 inch display) or the G7-100 SDC-08 (8 inch display) "APC-USB" connector socket:

8. Ensure that all cables are tidy and cannot become snagged or pinched when the door of the cabinet is opened and closed.

	Document Number	DCV-00592
	Date Released	Jul. 2021
	Revision Number/Security level	R02 S2

Retrofit G7 NFC to SCC Upgrade Kit (US & Canada) Installation Guide

9. Proceed to section 4.4: Closing the dispenser.

4.4 Closing the dispenser

4.4.1 Closing the Wayne Ovation 1 or Ovation 2 dispenser

1. Disengage the prop rod if this was engaged during the opening of the dispenser (section 4.1.1). Close the door fully.

**2.** Use a Wayne Security Key to screw the two security bolts located on the left-hand side of the dispenser's door face.

Location of the Security Bolts

3. Proceed to Section 4.5: Completing the installation.

4.4.2   Closing the GVR Encore 500S or 700S dispenser

1. Close the door until it locks into its fully closed position. Lock the main dispenser door lock located on the upper left-hand side of the Main Dispenser Door using the "CH 751" key.
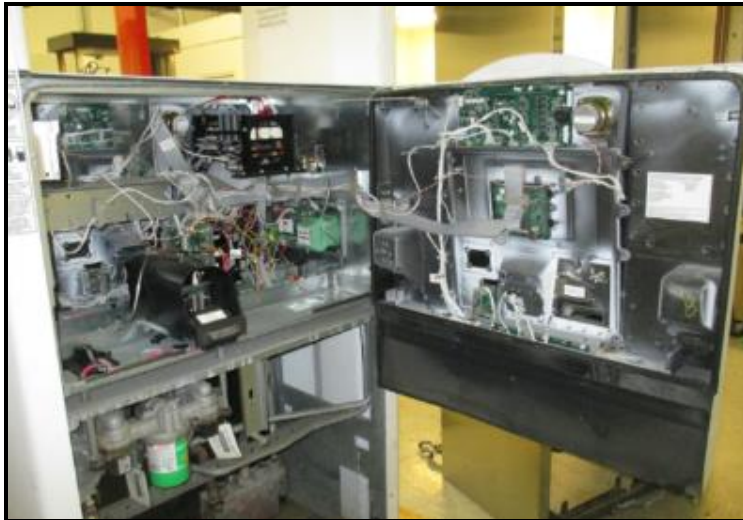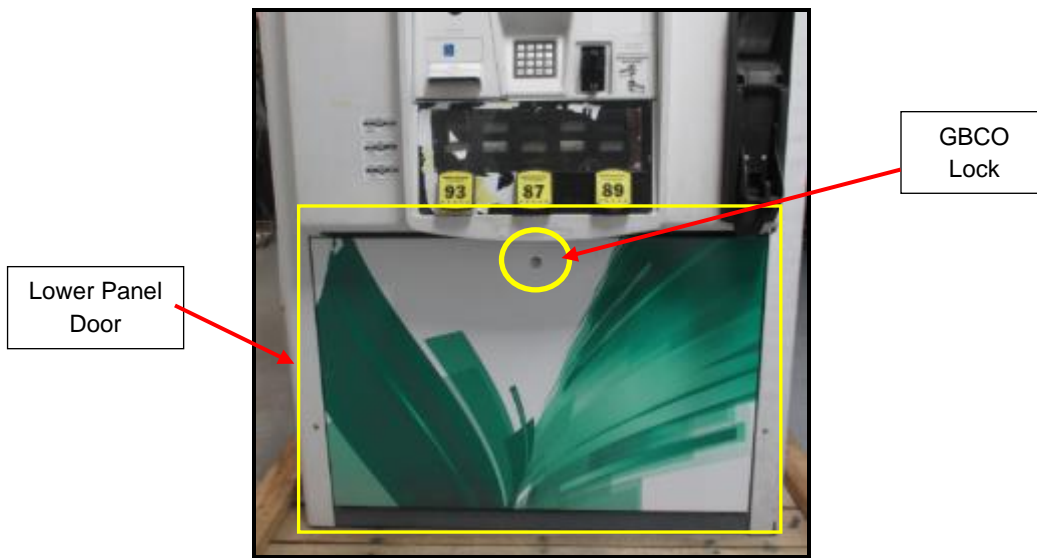

2. Do up the lower door latch located underneath the left-hand side of the Main Dispenser Door.

3. Reinstate the lower panel door that was removed during the opening of the dispenser (section 4.1.2) and lock the lower panel door with the "GBCO" key.

	Document Number	DCV-00592
	Date Released	Jul. 2021
	Revision Number/Security level	R02 S2

iNVENCO®

Retrofit G7 NFC to SCC Upgrade Kit (US & Canada) Installation Guide

Location of Panel Door and Lock

4. Proceed to Section 4.5: Completing the installation.

	Document Number	DCV-00592
iNVENCO®	Date Released	Jul. 2021
	Revision Number/Security level	R02 S2

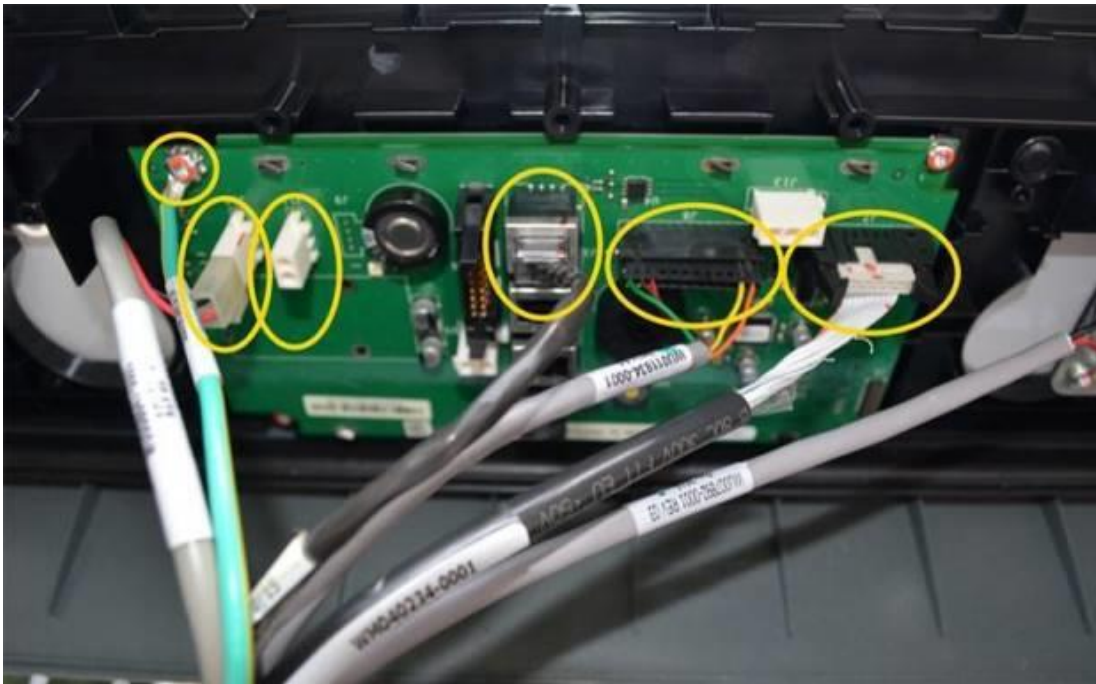**Retrofit G7 NFC to SCC Upgrade Kit (US & Canada) Installation Guide**

4.4.3 Closing the Wayne Helix Standard dispenser

1. Push in the G7 Helix Standard RFK panel until the customer display cables, grounding wire, and comm speaker (if present) that were marked/labelled and unplugged during the opening of the dispenser (section 4.1.3) can reach the respective connectors on the Helix Customer Display located on the upper part of the G7 Helix Standard RFK panel. Re-plug the customer display cables and comm speaker (if present) connections and re-screw the grounding wire screw using a T7 Torex driver.

2. On the PPU Board located on the lower part of the G7 Helix Standard RFK panel, re-plug the PPU, Grade Select Button, totalizers (if present), and Call/Intercom Button (if present on PPU panel) connections that were marked/labelled and unplugged during the opening of the dispenser (section 4.1.3).

	Document Number	DCV-00592
	Date Released	Jul. 2021
	Revision Number/Security level	R02 S2

iNVENCO®

Retrofit G7 NFC to SCC Upgrade Kit (US & Canada) Installation Guide

3. Push in the G7 Helix Standard RFK panel all the way in until completely closed. Tighten the two captive screws on each side of the panel (using a #2 Philips screwdriver).

4. Release the Prop Rod that was holding up the dispenser collar frame in the upper right corner and lower the dispenser collar frame.

5. Using the provided key for the dispenser, lock the lower metal frame on the Helix dispenser.

	Document Number	DCV-00592
	Date Released	Jul. 2021
	Revision Number/Security level	R02 S2

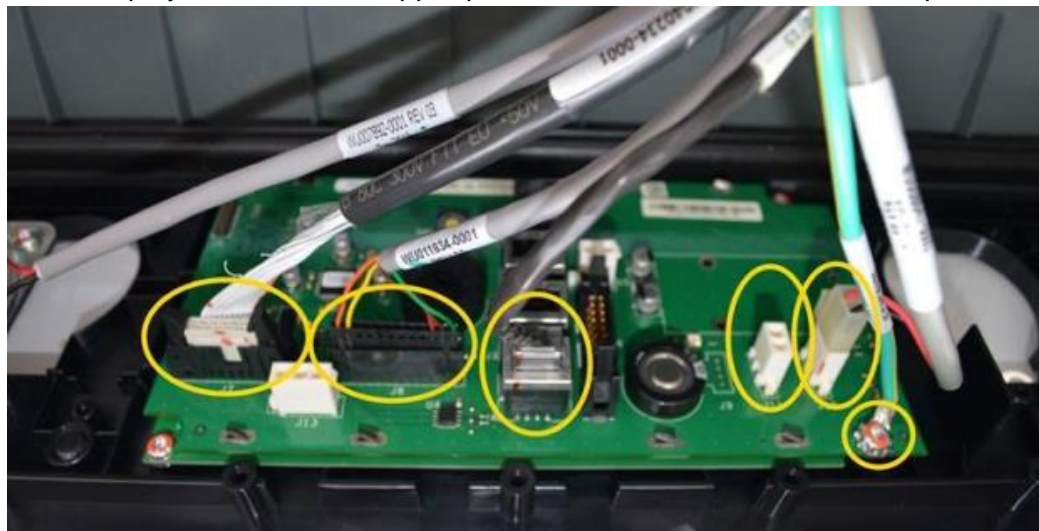Retrofit G7 NFC to SCC Upgrade Kit (US & Canada) Installation Guide

5. Proceed to Section 4.5: Completing the installation.

4.4.4   Closing the Wayne Helix Headless dispenser

1. Lift up the G7 Helix Standard RFK panel until the tethers can be attached to the dispenser tether brackets. Attach both the side tethers using the tether attaching screws and washers previously retained during the opening of the dispenser (section 4.1.4).

2. Re-plug the customer display cables and comm speaker (if present) connections and re-screw the grounding wire screw using a T7 Torex driver that were marked/labelled and unplugged/unscrewed during the opening of the dispenser (section 4.1.4) on the Helix Customer Display located on the upper part of the G7 Helix Headless RFK panel.

	Document Number	DCV-00592
iNVENCO®	Date Released	Jul. 2021
	Revision Number/Security level	R02 S2

Retrofit G7 NFC to SCC Upgrade Kit (US & Canada) Installation Guide

3. Push the G7 Helix Headless RFK panel all the way up until completely closed. Tighten the two captive screws on each side of the panel (using a #2 Philips screwdriver).

4. Release the Prop Rod that was holding up the dispenser collar frame in the upper right corner and lower the dispenser collar frame.

5. Using the provided key for the dispenser, lock the lower metal frame on the Helix dispenser.

	Document Number	DCV-00592
iNVENCO®	Date Released	Jul. 2021
	Revision Number/Security level	R02 S2

Retrofit G7 NFC to SCC Upgrade Kit (US & Canada) Installation Guide

6. Proceed to Section 4.5: Completing the installation.

	Document Number	DCV-00592
	Date Released	Jul. 2021
	Revision Number/Security level	R02 S2

Retrofit G7 NFC to SCC Upgrade Kit (US & Canada) Installation Guide

4.4.5 Closing the GVR Encore 300/500 or Encore 500S Non-ECIM dispenser

1. Close the main door until it locks into its fully open position and lock the main door.

2. Do up the bottom latch.

3. Reinstate the lower panel door that was removed during the opening of the dispenser (section 4.1.4). Lock the panel door with the "GBCO" key

4. Proceed to Section 4.5: Completing the installation.

4.4.6 Closing the Vista 4V or 3V converted to 4V dispenser

1. Close the dispenser door and screw in the lock screw using the Wayne key or the T40 security Torx key.

Vista 4V Wide Frame dispenser shown.

Using Wayne Key

Alternative: Use T40 Security Torx Key

2. Proceed to section 4.5: Completing the installation.

	Document Number	DCV-00592
	Date Released	Jul. 2021
	Revision Number/Security level	R02 S2

Retrofit G7 NFC to SCC Upgrade Kit (US & Canada) Installation Guide

4.5 Completing the installation

1. Repeat "Section 4.3: Installation of the new G7 SCC module" and "Section 4.4: Closing the dispenser" for the other side of the dispenser for double sided dispensers.

2. The installation is now completed.

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