

# Introduction

## Purpose

This document provides instructions for installing the Invenco Link into a dispenser.

## Kit Numbers and Description

Kit Part Number	Brief Description
RF00033-XX	Retrofit Invenco Link (US & Canada)

## Prerequisites

The Invenco Link device must be installed onto a Power Supply Unit (PSU) Plate Assembly contained in one of the below **UL Listed by Report Retrofit Kits**.

This means the PIB will be installed during the installation of a FlexPay 6 M2-15 payment system retrofit kit for the Encore or Ovation dispensers listed below.

*Note: Only one Invenco Link retrofit kit is required per dispenser.*

UL Report Number	Kit Part Numbers	Retrofit Kit Description for FlexPay 6 M2-15 Installation
MH61528	WK-FP6019-0X	Retrofit FlexPay 6 M2-15 Helix 1 Standard (US & Canada)
MH61528	WK-FP6020-0X	Retrofit FlexPay 6 M2-15 Helix 1 Headless (US & Canada)
MH61528	WK-FP6017-0X	Retrofit FlexPay 6 M2-15 Wayne Ovation (US & Canada)
MH61528	WK-FP6018-0X	Retrofit FlexPay 6 M2-15 Wayne Ovation 2 (US & Canada)

## Intended Audience

This Installation Guide is intended for Gilbarco® Authorized Service Contractors (ASCs).

*Note: This manual is available for download by ASCs on Gilbarco Online Documentation (GOLD<sup>SM</sup>).*

**IMPORTANT:** 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.

## Release History

Version	Prepared By	Date	Change Description
MDE-5825A	Amanda N.	Nov-24	New document for installing Invenco Link devices into dispensers during installation of the FlexPay 6 M2-15 Payment system.

## Abbreviations and Acronyms

Term	Description
GOLD	Gilbarco Online Documentation
PSU	Power Supply Unit for FlexPay 6 payment system
RFK	Retrofit Kit
UD	Universal Display

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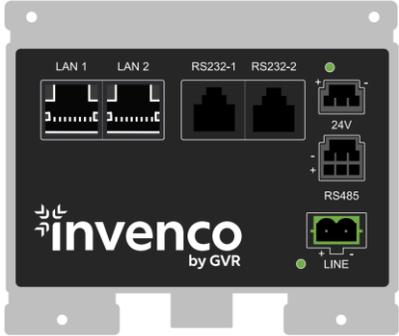
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## Retrofit Kit Contents

Unpack the kit contents and check all parts listed below are present.

*Note: Only one Invenco Link retrofit kit is required per dispenser.*

Description	Part Number	QTY	Illustration
Invenco Link with mounting plate	IA0040	1	
Fasteners:			
#6-32x1/4-inch machine screw	MS0143	4	

## Approvals

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

The Inenco Link has UL File References of E469526 and E480135 and carries a label similar to the below, which is the UL certification for the Inenco Link module of the FlexPay 6 M2-15 payment system.

**Figure 1: Inenco Link UL Label**



The Inenco Retrofit Kit has UL File Reference of MH61528.

## Tools Required

The following tools are required for this kit:

- Philips #1 screwdriver
- Small flat-bladed screwdriver

 **WARNING**

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

# Important Safety Information

**Notes:** 1) Save this Important Safety Information section in a readily accessible location.

2) Although DEF is non-flammable, Diesel is flammable. Therefore, for DEF cabinets that are attached to Diesel dispensers, follow all the notes in this section that pertain to flammable fuels.

This section introduces the hazards and safety precautions associated with installing, inspecting, maintaining, or servicing this product. Before performing any task on this product, read this safety information and the applicable sections in this manual, where additional hazards and safety precautions for your task will be found. Fire, explosion, electrical shock, or pressure release could occur and cause death or serious injury, if these safe service procedures are not followed.

## Preliminary Precautions

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

## Emergency Total Electrical Shut-Off

The first and most important information you must know is how to stop all fuel flow to the pump/dispenser and island. Locate the switch or circuit breakers that shut off all power to all fueling equipment, dispensing devices, and Submerged Turbine Pumps (STPs).

**⚠ WARNING**

 The EMERGENCY STOP, ALL STOP, and PUMP STOP buttons at the cashier's station WILL NOT shut off electrical power to the pump/dispenser. This means that even if you activate these stops, fuel may continue to flow uncontrolled.

 You must use the TOTAL ELECTRICAL SHUT-OFF in the case of an emergency and not the console's ALL STOP and PUMP STOP or similar keys.

## Total Electrical Shut-Off Before Access

Any procedure that requires access to electrical components or the electronics of the 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 Gilbarco equipment.

## Evacuating, Barricading, and Shutting Off

Any procedure that requires access to the pump/dispenser or STPs requires the following actions:



- An evacuation of all unauthorized persons and vehicle: from the work area
- Use of safety tape, cones, or barricades at the affected unit(s)
- A total electrical shut-off of the affected unit(s)



## Read the Manual

Read, understand, and follow this manual and any other labels or related materials supplied with this equipment. If you do not understand a procedure, call the Gilbarco Technical Assistance Center (TAC) at 1-800-743-7501. It is imperative to your safety and the safety of others to understand the procedures before beginning work.

## Follow the Regulations

Applicable information is available in National Fire Protection Association (NFPA) 30A; Code for Motor Fuel Dispensing Facilities and Repair Garages, NFPA 70; National Electrical Code (NEC), Occupational Safety and Health Administration (OSHA) regulations and federal, state, and local codes. For Canada, follow all applicable requirements in Canadian Electrical Code (CE Code) CSA C22.1.

All these regulations 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 or affect the safe use and operation of the equipment.

## Replacement Parts

Use only genuine Gilbarco replacement parts and retrofit kits on your pump/dispenser. Using parts other than genuine Gilbarco replacement parts could create a safety hazard and violate local regulations.

## Federal Communications Commission (FCC) Warning

This equipment has been tested and found to comply with the limits for a Class A digital device pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference when the equipment is operated in a commercial environment. This equipment generates, uses, and can radiate radio frequency energy, and if not installed and used in accordance with the instruction manual, may cause harmful interference to radio communications. Operation of this equipment in a residential area is likely to cause harmful interference in which case the user will be required to correct the interference at his own expense. Changes or modifications not expressly approved by the manufacturer could void the user's authority to operate this equipment.

## Safety Symbols and Warning Words

This section provides important information about warning symbols and boxes.

### Alert Symbol

 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 hazards. 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** with Alert symbol: Designates a hazard or unsafe practice which may result in minor injury.

**CAUTION** without Alert symbol: Designates a hazard or unsafe practice which may result in property or equipment damage.

## Working with Fuels and Electrical Energy

### Prevent Explosions and Fires

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

DEF is non-flammable. Therefore, explosion and fire safety warnings do not apply to DEF lines.

## Important Safety Information

### No Open Fire



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

### No Sparks - No Smoking



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

### Working Alone

It is highly recommended that someone who is capable of rendering first aid be present during servicing. Familiarize yourself with Cardiopulmonary Resuscitation (CPR) methods, if you work with or around high voltages. This information is available from the American Red Cross. 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 Lockout/Tagout procedures. If you are not familiar with this requirement, refer to this information in the service manual and OSHA documentation.

### Working With Electricity Safely

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 Lockout/Tagout requirements. Station employees and service contractors need to understand and comply with this program completely to ensure safety while the equipment is down.

### Hazardous Materials

Some materials present inside electronic enclosures may present a health hazard if not handled correctly. Ensure that you clean hands after handling equipment. Do not place any equipment in the mouth.

#### **WARNING**

In the event of inclement weather, including snow, ice, or flooding that makes driving conditions dangerous, please avoid servicing units. Always use available door stops to secure upper doors against unwanted/unexpected movement, especially during high winds. If necessary, reschedule service to avoid damage to the equipment. Weather may change unexpectedly; be aware of local weather conditions. During service, if conditions develop making service unsafe, close the unit(s) and proceed to a safe location.

#### **WARNING**

The pump/dispenser contains a chemical known to the State of California to cause cancer.

#### **WARNING**

The pump/dispenser contains a chemical known to the State of California to cause birth defects or other reproductive harm.



Gilbarco Veeder-Root encourages the recycling of our products. Some products contain electronics, batteries, or other materials that may require special management practices depending on your location. Please refer to your local, state, or country regulations for these requirements.

## In an Emergency

### Inform Emergency Personnel

Compile the following information and inform emergency personnel:

- Location of accident (for example, address, front/back of building, and so on)
- Nature of accident (for example, possible heart attack, run over by car, burns, and so on)
- Age of victim (for example, baby, teenager, middle-age, elderly)
- Whether or not victim has received first aid (for example, stopped bleeding by pressure, and so on)
- Whether or not a victim has vomited (for example, if swallowed or inhaled something, and so on).

#### **WARNING**



Gasoline/DEF ingested may cause unconsciousness and burns to internal organs. Do not induce vomiting. Keep airway open. Oxygen may be needed at scene. Seek medical advice immediately.

#### **WARNING**

DEF generates ammonia gas at higher temperatures. When opening enclosed panels, allow the unit to air out to avoid breathing vapors. If respiratory difficulties develop, move victim away from source of exposure and into fresh air. If symptoms persist, seek medical attention.

#### **WARNING**



Gasoline inhaled may cause unconsciousness and burns to lips, mouth, and lungs. Keep airway open. Seek medical advice immediately.

#### **WARNING**



Gasoline/DEF spilled in eyes may cause burns to eye tissue. Irrigate eyes with water for approximately 15 minutes. Seek medical advice immediately.

#### **WARNING**



Gasoline/DEF spilled on skin may cause burns. Wash area thoroughly with clear water. Seek medical advice immediately.

#### **WARNING**



Gasoline/DEF spilled on skin may cause burns. Wash area thoroughly with clear water. Seek medical advice immediately.

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

## Lockout/Tagout

Lockout/Tagout covers servicing and maintenance of machines and equipment in which the unexpected energization or start-up of the machine(s) or equipment or release of stored energy could cause injury to employees or personnel. Lockout/Tagout applies to all mechanical, hydraulic, chemical, or other energy, but does not cover electrical hazards. Subpart S of 29 CFR Part 1910 - Electrical Hazards, 29 CFR Part 1910.333 contains specific Lockout/Tagout provision for electrical hazards.

## Before You Begin

### CAUTION



A properly grounded Electrostatic Discharge (ESD) wrist strap must be worn while servicing any electronic devices or components. Failure to use electrostatic precautions may damage electronic components and void warranty.

To prepare the site and dispenser for the upgrade, proceed as follows:

1. Inform the manager.
2. Barricade the unit to be worked on.
3. Remove power to the unit at the breaker panel. Follow OSHA lockout/tagout procedures.

### WARNING

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

## Installation Procedures

Please ensure all safety procedures are followed according to the safety standards described in the [Important Safety Information](#) section (page 7) in this document, local codes and regulations, and as required by the customer, before installing this retrofit kit.

Remove power to pump and follow the OSHA Lock-out/Tag-out procedures.

### Identify PSU Plate Assembly (PSU)

Identify the PSU Plate Assembly EZ0853 from your FlexPay 6 M2-15 retrofit kit.

**Figure 2: PSU Plate Assembly EZ0853**

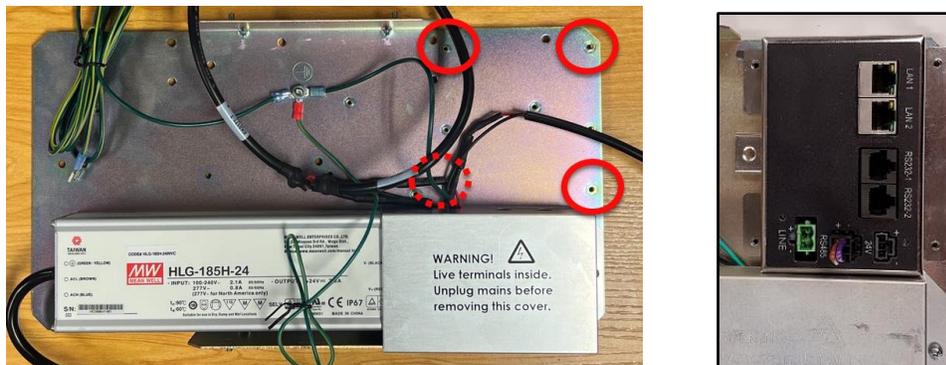


### Mount Invenco Link to PSU Plate

The Invenco Link must be mounted to the PSU plate.

1. Identify the mounting holes on the PSU plate.
2. Place the Invenco Link so that the mounting holes of the Invenco Link plate are in line with the holes on the PSU plate.

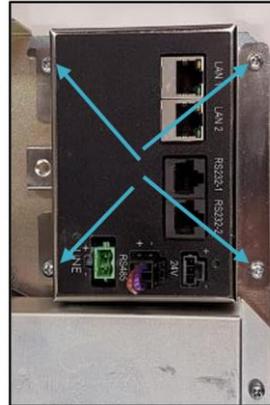
**Figure 3: Invenco Link Mounted to PSU**



3. Take the 4x MS0143 screws from the Invenco Link kit and insert them into the four screw holes.

4. Tighten all four screws carefully to secure the Invenco Link in place.

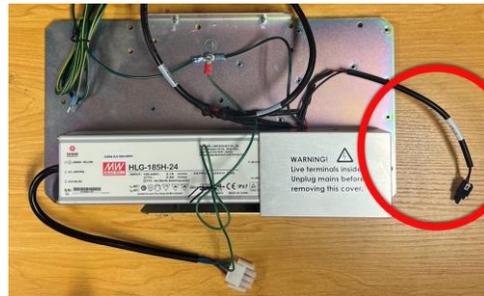
**Figure 4: Invenco Link secured to PSU with screws**



## Connect Invenco Link Power Cable

1. Identify the Invenco Link DC power cable from the PSU. It is labelled with an EK0122 sticker.

**Figure 5: Invenco Link power cable**



2. Insert the connector of the cable into the 1x3-way “24V” socket on the Invenco Link.



## Complete the Installation

The Invenco Link installation is now complete.

You can now resume installation of the FlexPay 6 M2-15 retrofit kit into the dispenser.

*All product names, logos, and brands are the property of their respective owners and are for identification purposes only. Use of these names, logos, and brands does not imply endorsement.*