

## Introduction

### Purpose

This manual provides instructions for installing the Drip Tray Kit (M13750K001) in Encore® dispenser that has an Ecometer™ or standard meter, replacing an existing Eclipse® installation.

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### Required Tools

Following tools are required for installing the Drip Tray Kit:

- 1/4-inch Spanner
- 1/4-inch Nut Driver
- 13 mm Long and Short Sockets
- Two Ratchets

### Parts List

Following table lists the parts included in the Drip Tray Kit:

<b>Item</b>	<b>Description</b>	<b>Part Number</b>	<b>Quantity</b>
1	Drip Tray, Encore – Side A	M13750B001	1
2	Drip Tray, Encore – Side B	M13750B002	1
3	Screw, Hexagonal-head Serrated, 1/4-20-inch	Q11889-06	4
4	Nut, Hexagonal Serrated Flange, 1/4-20-inch	Q11890-04	4

*Note: Only three sets of screws and nuts are needed. An extra set of screws and nuts is provided in case any are dropped in the pitbox.*

### Abbreviations and Acronyms

<b>Term</b>	<b>Description</b>
CD	Computer Display
J-box	Junction Box
OSHA	Occupational Safety and Health Administration
STP	Submersible Turbine Pump

# 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 vehicles 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 a Gilbarco Authorized Service Contractor or call the Gilbarco Support Center at 1-800-800-7498. 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. 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.

## 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.

**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**

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.

**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**

DEF is mildly corrosive. Avoid contact with eyes, skin, and clothing. Ensure that eyewash stations and safety showers are close to the work location. Seek medical advice/recommended treatment if DEF spills into eyes.

**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

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

- 1 Read all instructions.
- 2 Inform the manager.
- 3 Follow all safety precautions:



- Barricade the area.
  - Do not allow vehicles in the work area.
  - Do not smoke or allow open flames in the work area.
  - Do not use power tools in the work area.
  - Do not allow unauthorized people into the work area.
  - Wear eye protection during the installation.
  - Ensure that there is no power supplied to the units until required, as per later installation steps.
- 4 Use circuit breakers to turn off all power to pumps/dispensers and Submersible Turbine Pumps (STPs). Multiple disconnects may be required. Follow OSHA tagout/lockout procedures.
  - 5 Check that the parts in the kit match the “Parts List” on [page 1](#).
  - 6 Before beginning the installation, ensure that:
    - a The pump grades go straight up to the manifold without bends.
    - b The conduits to the Computer Display (CD) module fit through the hole that the Junction box (J-box) goes through.
    - c The conduits should stay 15 inches below from the base of the unit/top of the island before taking final turn up to the CD module conduit hole-location.

## Removing Upper Piping Support Rail (Standard Meter)

To remove the upper piping support rail, proceed as follows:

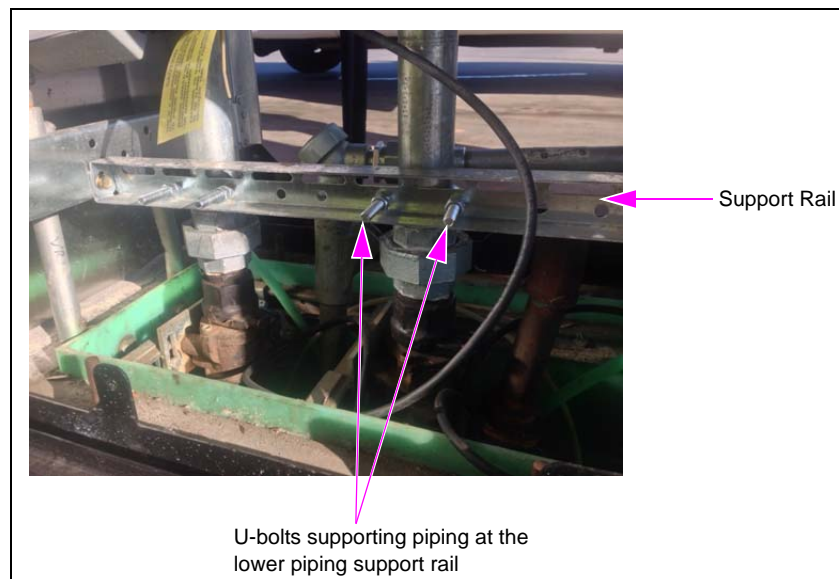
*Note: These instructions are applicable for dispensers with standard meters. For dispensers with Ecometer, proceed to “Installing Drip Tray Kit” on page 6.*

- 1 Remove the upper piping support rail.

**⚠ WARNING**

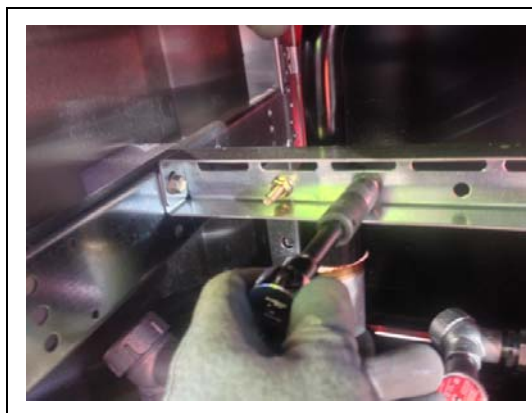
For the shear valves to work properly, the piping must be supported at the remaining lower piping support rail.

**Figure 1: Upper Piping Support Rail**



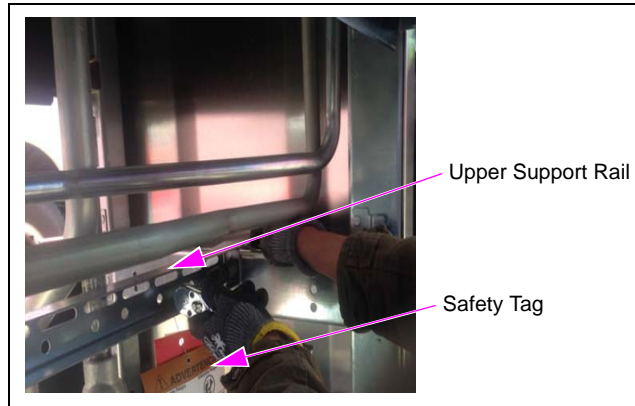
- 2 Remove the U-bolts from the upper piping support rail. If the piping is not already supported, use these U-bolts and nuts to support the piping at the lower piping support rail.

**Figure 2: Removing U-bolts**



- 3 Remove the upper rail support from the frame by removing the nuts from both sides using the 13 mm long and short sockets. The nuts are located on the back side (see [Figure 3](#)).

**Figure 3: Removing Upper Support Rail**



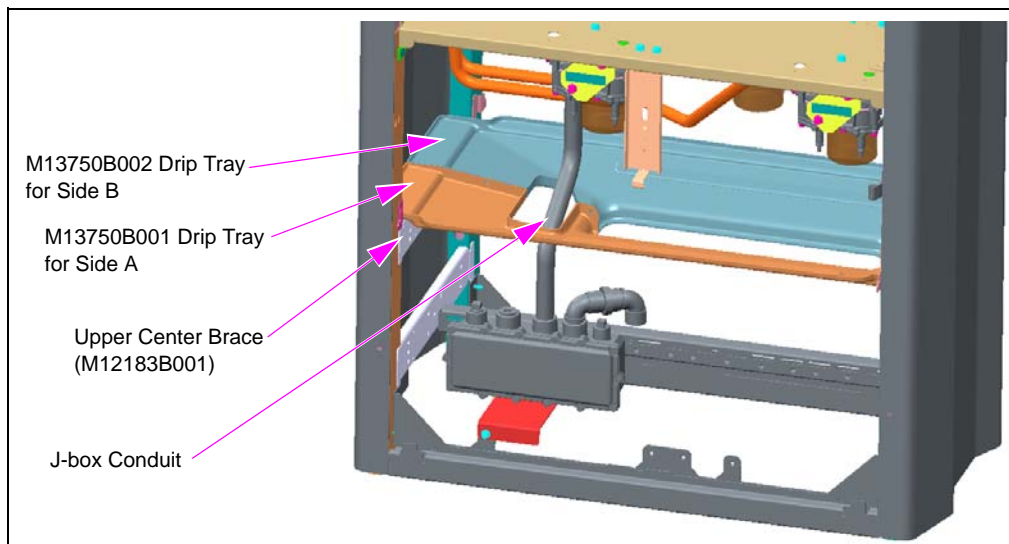
- 4 Move any safety tags from the upper rail to the lower rail.
- 5 Proceed to "[Installing Drip Tray Kit](#)".

## Installing Drip Tray Kit

To install the Drip Tray Kit, proceed as follows:

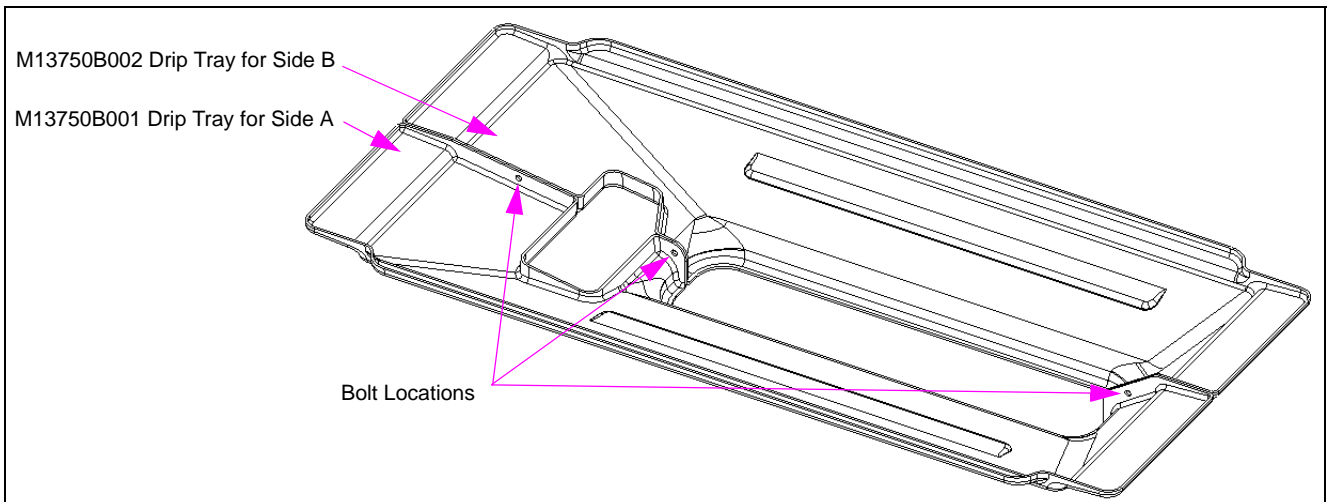
- 1 Open the lower panel on both sides of the dispenser.
- 2 Insert the M13750B001 Drip Tray from side A of the dispenser so that the J-box conduit passes through the clearance opening. Ensure the components rest over the Upper Center Braces (M12183B001) in the Lower Frame Assembly (M12190A001) as shown in [Figure 4](#).

**Figure 4: Drip Tray**



- 3 Repeat step 2 on page 6 with the M13750B002 Drip Tray from the side B of the dispenser.
- 4 Use the three 1/4-20-inch Hexagonal-head Serrated Screws (Q11889-06) and 1/4-20 Serrated Flange Nuts (Q11890-04) to secure the drip trays together at three places.

**Figure 5: Drip Tray Assembly**



- 5 Close the lower panels.
- 6 Turn power on to the unit at the breaker panel.

Installing the Drip Tray Kit in Encore dispenser is now complete.

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