

## Installation

## Introduction

This manual provides assembly and installation instructions for the Oval Canopy Kit M04691K001 for Encore® Pumps/Dispensers. The kit contains the canopy parts and hardware required for installation.

## Required Reading

Before installing this kit, the installer must read, understand, and follow:

- This manual
- NFPA 30A, The Automotive and Marine Service Station Code
- NFPA 70, The National Electric Code
- Applicable federal, state and local codes and regulations

Failure to do so may adversely affect the safe use and operation of the equipment.

*Note: This kit must be installed by a Gilbarco Authorized Service Contractor (ASC) to ensure warranty.*

## Related Documents

The following documents are related to the installation of the Encore Oval Canopy Kit M04691K001.

Document Number	Title	GOLD® Library
MDE-3804	Encore and Eclipse® Series Start-Up/Service Manual	Encore and Eclipse
MDE-3893	Encore/Eclipse Owners Manual	Encore and Eclipse
PT-1936	Encore Illustrated Parts Manual	Parts Manual

## Required Tools

The following tools are needed to install the Encore Oval Canopy Kit M04691K001:

- Metric Socket Set
- Metric Wrench Set
- 8-Foot Step Ladder
- Gloves
- Eye Protection

## Parts List

### The Encore Oval Canopy Kit M04691K001

The following table lists the parts for the Encore Oval Canopy Kit M04691K001.

<b>Description</b>	<b>Part Number</b>	<b>Quantities</b>
Sheathing, Encore Canopy Wrapper	M04689B001	2
Bracket, Encore Reinforced Canopy	M04690B001	2
Kit, Stainless Metric Fastener	M04722K001	1
• Flat Washer, Metric	M00959B016	14
• Bolt, Hex Cap SSTL Metric	M004023B004	14
• Washer, Lock SSTL Metric	M01071B005	14
• Hex Nut, Metric	M04024B002	14
• Bolt, Hex Cap Yellow Dichromate Metric	M04023B010	4
• Washer, Flat Metric	M00959B017	4
• Washer, Lock Metric	M01071B004	4

## Important Safety Information

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 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 only these cashier station "stops."

#### Evacuation and Barricading

Any procedures performed on or near the pump/dispenser (but not requiring accessing the pump/dispenser or STPs) requires the following actions:



- An evacuation of all unauthorized persons and vehicles
- Using safety tape or cones as barricades to the effected units

#### 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 Call 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

There is applicable information in: NFPA 30A: *Automotive and Marine Service Code*; NFPA 70: *National Electrical Code (NEC)*; OSHA regulations; and federal, state, and local codes which 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 that follow must be followed to prevent death, injury or damage to the equipment

- **DANGER** - This signal word is used to alert you to a hazard to unsafe practice which will result in death or serious injury
- **WARNING** - This alerts you to a hazard or unsafe practice that could result in death or serious injury.
- **CAUTION** with Alert symbol - This signal word designates a hazard or unsafe practice which may result in minor injury.
- **CAUTION** without Alert symbol - When used by itself, CAUTION designates a hazard or unsafe practice which may result in property or equipment damage.

## Prevent Explosions and Fires

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

### No Open Flames



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 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.

## 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 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 tag out and lock out procedures. If you are not familiar with this requirement, refer to information in the service manual and OSHA documentation.

## Working With Electricity Safely

Be sure to use safe and established practices in working with electrical devices. Poorly wired devices may cause a fire, explosion or electrical shock.

- Be sure grounding connections are properly made.
- Make sure that sealing devices and compounds are in place.
- Be sure not to pinch wires when replacing covers
- Follow OSHA Lock-Out and Tag-Out requirements. Station employees and service contractors need to understand and comply with this program completely to ensure safety while the equipment is down.

## Informing Emergency Personnel

Compile the following information for emergency personnel:

- Location of accident (e.g. address, front/back of building, etc.)
- Nature of accident (e.g. possible heart attack, run over by car, 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 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.

## Assembling the M04691K001 Kit

### Station Layout

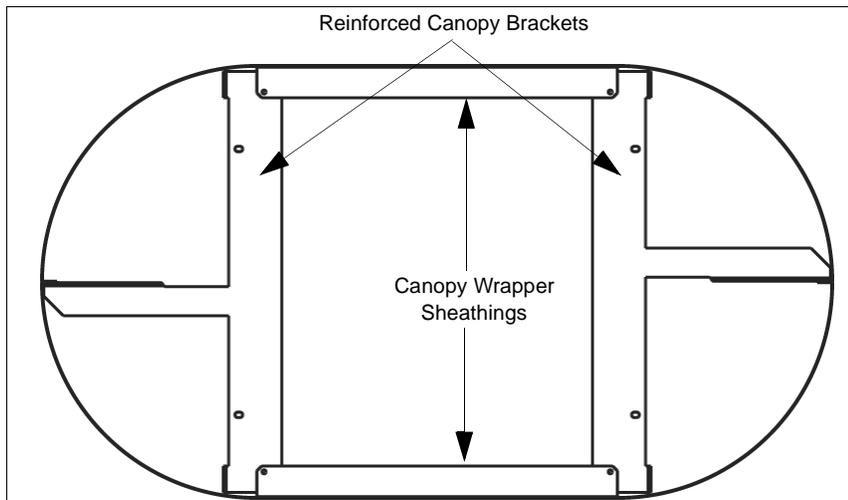
Check the dimensions of the canopy retrofit to be sure the canopy can be installed on each unit. At least 7 inches must be available on each side of each unit for the canopy to be installed. The overall oval canopy and unit dimensions are 888 x 1635 x 244.5 mm (approximately 34.5 x 64.4 x 10 inches).

### Assembly

The following procedures describe assembling the Encore Oval Canopy Kit M04691K001 in preparation for mounting on an Encore Pump/Dispenser.

- 1 Read all the instructions before beginning assembly.
- 2 Observe and execute safety precautions and procedures before and during assembly.
  - Barricade the work area.
  - Do not allow vehicles or unauthorized people in work area.
  - Do not smoke or have open flames in work area.
  - Do not use power tools in work area.
  - Wear protective gear while performing these procedures.
  - Sheet metal parts may have sharp edges. When handling sheet metal wear gloves to protect hands from cuts.
- 3 Prepare a work area by placing a protective material (cardboard or similar material) on the work surface to protect the paint/decals on the canopy. Cover an area approximately 6 feet by 6 feet.
- 4 Remove all the pieces and hardware from the shipping container.
- 5 Ensure that all parts and hardware are included. Check contents of the shipping container against the “Parts List” on page 2 in this manual.
- 6 Place the two M04690B001 Encore Reinforced Canopy Brackets on the protected area and oriented as shown in Figure 1.

**Figure 1: Encore Oval Canopy Assembly Showing Position of Parts for Assembly**

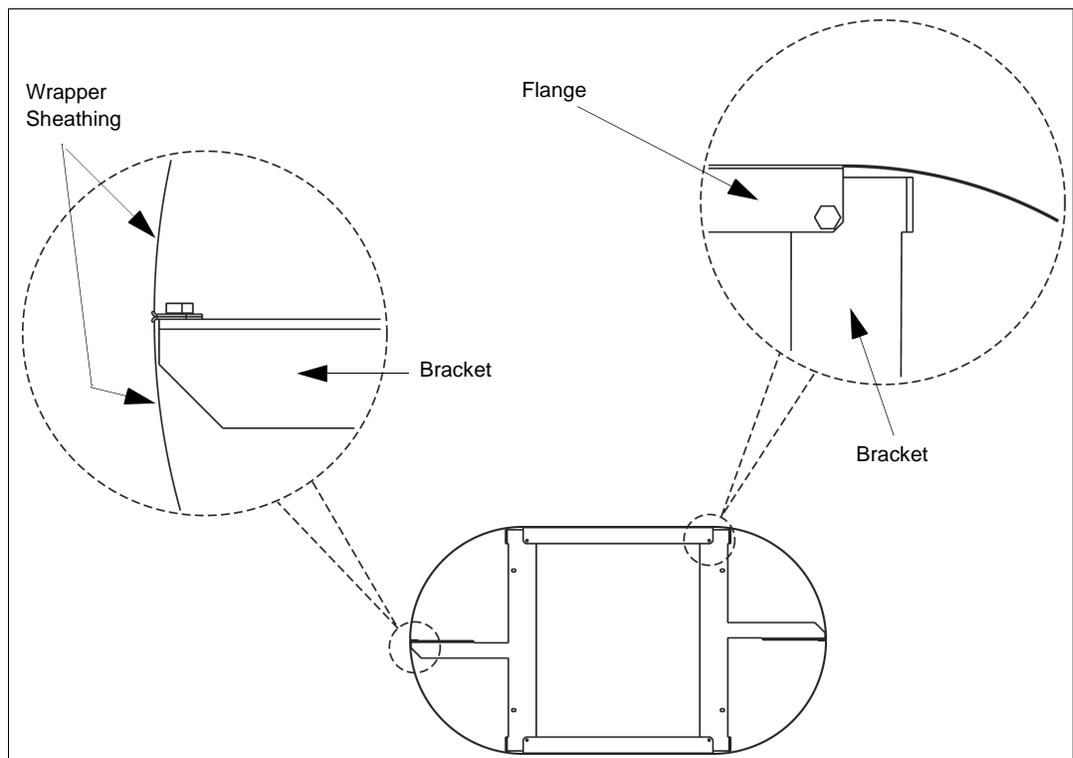


- 7 Place one of the M04689B001 Encore Canopy wrapper sheathing along side the two frames. Be sure the decals are oriented properly (upright when canopy is mounted.)
- 8 Align the mounting holes in the top and bottom flanges of the wrapper sheathing with the holes in the brackets (Figure 2: Assembling the Oval Canopy). The flanges should be placed over the brackets on the top and underneath the brackets on the bottom (brackets fit between the two flanges on the wrapper sheathing.)
- 9 Secure loosely to the two brackets using four bolts, washers, and nuts.
- 10 Repeat the process with the second M04690B001 Encore Canopy Wrapper Sheathing.

*Note: Have four bolts, washers, and nuts in an accessible place before starting to perform the next step.*

- 11 At one end of the assembly, pull the ends of the two canopy wrapper sheathing pieces around the bracket and place the flange of each of the wrapper sheathing pieces to align the screw holes with the screw holes in the bracket as shown in Figure 2. The wrapper sheathing pieces are stiff and require some skillful maneuvering to align and hold the holes properly aligned for the bolts. Avoid creasing the sheathing.

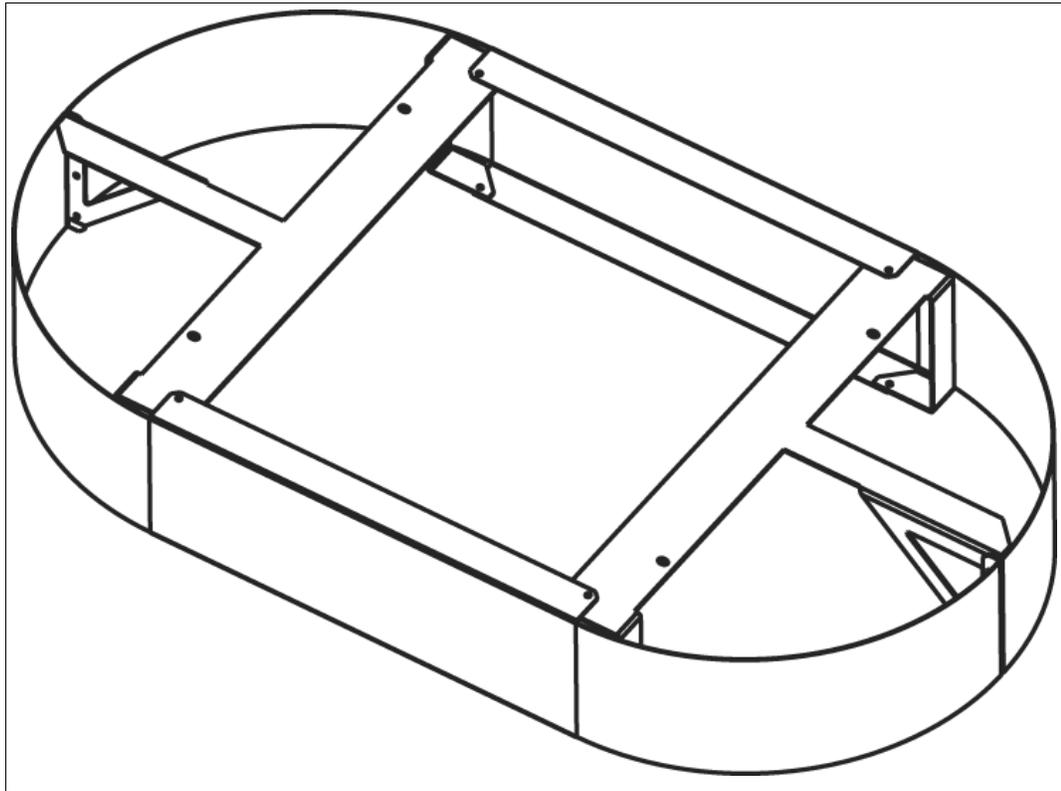
**Figure 2: Assembling the Oval Canopy**



- 12 Place a bolt in the top holes of the flanges and the bracket and loosely secure with a washer and nut.
- 13 Place a bolt in the bottom holes loosely secure with a washer and nut.

- 14 Place the remaining bolt in the flange/bracket holes and loosely secure with a washer and nut.
- 15 Repeat steps 11 through 14 for the other end of the assembly.
- 16 After all bolts, washers and nuts are in place, tighten all the nuts securely. Tightening the bolts and nuts should pull the all the parts of the oval canopy assembly into proper position and shape.
- 17 Place the assembled oval canopy (Figure 3: Assembled Encore Oval Canopy) in a protected area until installation.
- 18 If additional Encore Oval Canopy kits are to be assembled, repeat the assembly process in steps 4 through 17 for each of the remaining Kits.

**Figure 3: Assembled Encore Oval Canopy**



## Installing the M04691K001 Kit

The following procedures describe installing the Encore Oval Canopy Kit M04691K001 on an Encore Pump/Dispenser.

### Preparing

- 1 Read all instructions before beginning installation.
- 2 Observe and execute all safety precautions and procedures before, during and after installation.
- 3 If there is an existing pump/dispenser topper in place that has AC power connected to it, remove AC power to the topper. If power is shared with the Encore unit, remove power from the Encore unit and topper using the station circuit breaker. Refer to MDE-3893 Encore/Eclipse Owners Manual for details on removing system power.
- 4 Remove any existing canopy or topper and secure any electrical leads in accordance with NEC guidelines before proceeding.

### Installing

#### **WARNING**

Be sure to support the canopy assembly when placing it on the pump/dispenser and before it is secured in place to prevent injury to personnel and damage to the equipment.

- 5 If there was no previous topper on the unit or if the top cover mounting bolts are still in place, remove the mounting bolts holding the top cover in place.
- 6 To place the assembly on top of the unit safely, using two persons is recommended. Place the assembled unit on top of the pump/dispenser ensuring that the assembly is centered on the pump/dispenser.
- 7 Ensure that the decals on the canopy are properly displayed.
- 8 Align the holes in the brackets (Figure 3) with the mounting holes in the pump/dispenser and secure in place using the four M04023B010 bolts, four M00959B017 flat washers, and four M01071B004 lock washers.

### Completing

- 9 Remove from the site any equipment/materials that were removed from the pump/dispenser, unused materials, protective material used during assembly, and safety equipment.
- 10 If power was removed from the pump/dispenser, restore power.

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