

Introduction

Purpose

This manual provides assembly and installation instructions for the 16-inch Oval Canopy Kit (EN01007GA001) for Encore® units.

Intended Users

This manual is intended for Gilbarco®-trained and certified Authorized Service Contractors (ASC).

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Required Tools and Materials

Following tools and materials are required for installing the 16-inch Oval Canopy Kit:

- Metric Socket Set
- Metric Wrench Set
- Two 8-foot Step Ladders
- Gloves
- Eye Protection

Parts List

Following table list the parts included in the 16-inch Oval Canopy Kit:

Item#	Description	Part Number	Quantity
1	Sheathing Encore Canopy Wrap	M15040B001PQ7	2
2	Bracket, Oval Canopy Assembly	M15041A001PQ7	2
3	Bracket, Encore Canopy Reinforcement	M15081A001PQ7	4
4	Canopy Gasket Space Filler	M15230B001	4
5	Kit, Metric Fasteners	M15228K001	1
	• Washer, Flat, Metric M8	M00959B016	22
	• Washer, Flat, Metric M10	M00959B017	4
	• Bolt, Hexagonal Cap, Metric Yellow Dichromate M8 x 20	M04023B004	4
	• Bolt, Hexagonal Cap, Metric Yellow Dichromate M10 x 25	M04023B010	4
	• Nut, Hexagonal Flange with Nylon Locking, Metric M8	M10986B001	18

Required Reading



Before installing the kit, read, understand, and follow:

- This manual
- National Fire Protection Association (NFPA) 30A, The Automotive and Marine Service Station Code
- NFPA 70®, The National Electric Code (NEC®)
- Applicable federal, state, and local codes and regulations

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

Note: To ensure valid warranty, this kit must be installed by a Gilbarco-trained ASC.

Related Documents

Document Number	Title	GOLD SM Library
MDE-3804	Encore and Eclipse® Start-up/Service Manual	<ul style="list-style-type: none"> • Encore and Eclipse • Service Manual
MDE-3893	Encore and Eclipse Series Owner's Manual	<ul style="list-style-type: none"> • Encore and Eclipse • Domestic Warranty and Owner's Manuals • Encore and Eclipse Installers • Export Warranty and Owners Manuals
MDE-3985	Encore Installation Manual	<ul style="list-style-type: none"> • Encore and Eclipse • Footprint and Elevations Library • Encore and Eclipse Installers
PT-1936	Encore Series Pumps and Dispensers Illustrated Parts Manual	<ul style="list-style-type: none"> • Encore and Eclipse • Encore and Eclipse Installers • Parts Manual

Abbreviations and Acronyms

Term	Description
ASC	Authorized Service Contractor
CFR	Code of Federal Regulations
CPR	Cardiopulmonary Resuscitation
DEF	Diesel Exhaust Fluid
FCC	Federal Communications Commission
GOLD	Gilbarco Online Documentation
NEC	The National Electrical Code
NFPA	National Fire Protection Association
OSHA	Occupational Safety and Health Administration
STP	Submersible Turbine Pump
TAC	Technical Assistance Center

Important Safety Information

Notes: 1) *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 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. 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 use 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.

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

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

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

Read and follow all safety information provided in “[Important Safety Information](#)” on [page 3](#) and *MDE-3804 Encore and Eclipse Start-up/Service Manual*.

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 and during kit installation.

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

- 1 Inform the manager that the power will be disconnected.
- 2 Barricade the unit to be worked on.
- 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. For more information on removing system power, refer to *MDE-3804 Encore and Eclipse Start-up/Service Manual*.
- 4 Match the parts received in the kit with “[Parts List](#)” on [page 1](#).

Gilbarco recommends that two people install the 16-inch Oval Canopy Kit.

Installing the 16-inch Oval Canopy Kit

Assembling the 16-inch Oval Canopy Kit

To assemble the 16-inch Oval Canopy Kit, proceed as follows:

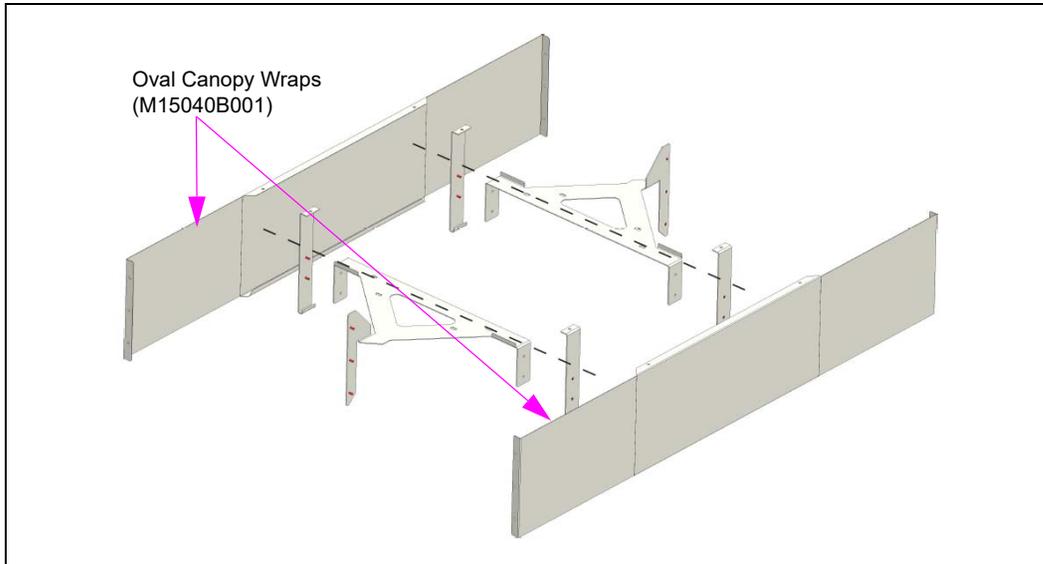
Note: Sheet metal parts may have sharp edges. When handling sheet metal, wear gloves to protect hands from cuts.

Verifying Station Layout

Verify the dimensions of the canopy retrofit and ensure that the canopy can be installed on each unit. At least 13 inches must be available on each side of each unit for the canopy to be installed. The overall oval canopy and unit dimensions are 990 X 1727 X 406 mm (39 X 68 X 16 inches).

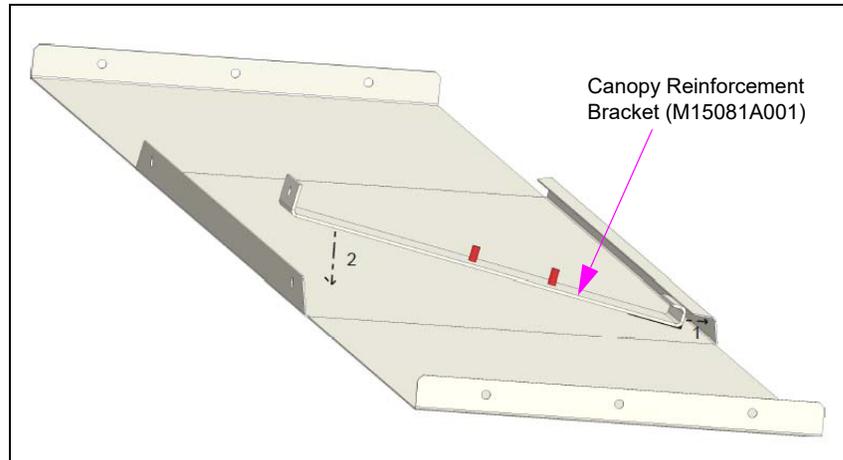
- 1 Prepare a work area by placing a protective material (cardboard or similar material) on the work surface to protect the paint/decals on the canopy. Cover an area approximately 8 X 8 feet.
- 2 Place the two 16-inch Oval Canopy Wraps (M15040B001) on the protected area.

Figure 1: Oval Canopy Wraps (M15040B001)



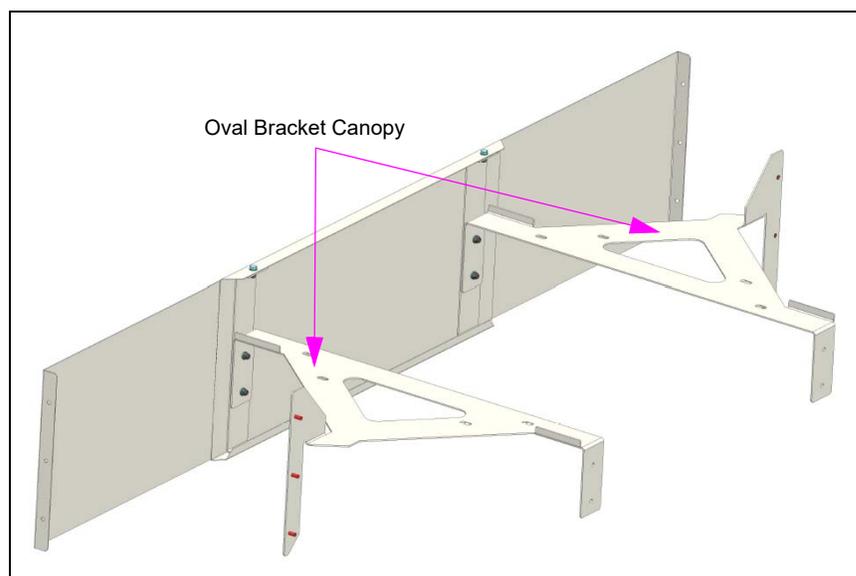
- 3 Place one of the Canopy Reinforcement Brackets (M15081A001) with the oval canopy wrap and press (see [Figure 2](#)). Ensure that the pieces fit together snugly.

Figure 2: Placing Canopy Reinforcement Bracket



- 4 Repeat step 3 for each canopy reinforcement bracket.
- 5 Secure the canopy reinforcement brackets to the oval canopy wrap loosely using four bolts, washers, and nuts.
- 6 Align the oval canopy bracket to one of the canopy reinforcement bracket. Assemble loosely using four washers and four nuts (see [Figure 3](#)).

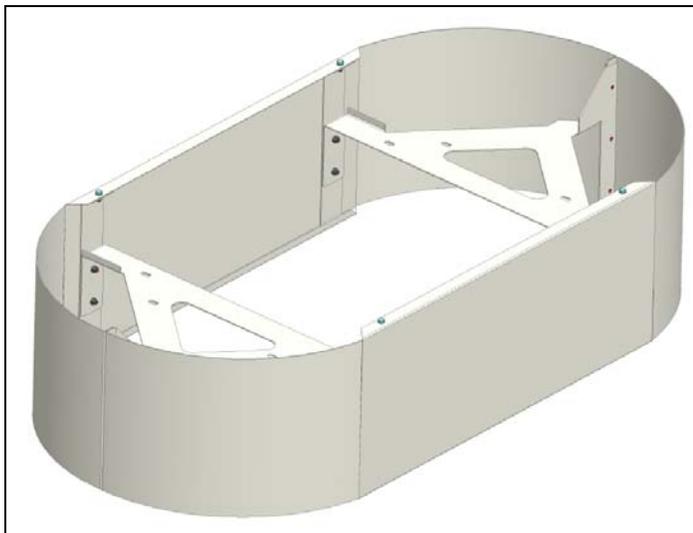
Figure 3: Aligning Oval Canopy Bracket



- 7 Repeat step 6 with the other oval canopy wrap assembly.
- 8 Pull the ends of the two canopy wrapper sheathing pieces around the bracket and through the clinch studs. When both ends of the canopy wraps are around the studs, secure using three washers and three nuts.

Note: The wrapper sheathing pieces are stiff and require skillful maneuvering to place the holes properly. Avoid creasing the sheathing.
- 9 Repeat step 8 for the other end of the canopy.
- 10 After all bolts, washers, and nuts are in place, tighten all the nuts securely. Tightening the bolts and nuts should pull all the parts of the oval canopy assembly into proper position and shape.
- 11 Place the assembled oval canopy in a protected area until installation (see [Figure 4](#) on [page 8](#)).

Figure 4: Assembled 16-inch Oval Canopy



- 12 If additional 16-inch Oval Canopy Kits are to be assembled, repeat the assembly process in steps 2 on [page 6](#) through 11 for each of the remaining kits.

Installing the 16-inch Oval Canopy

To install the 16-inch oval canopy, proceed as follows:

- 1 Remove any existing canopy or topper, and secure any electrical leads in accordance with NEC guidelines before proceeding.
- 2 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.
- 3 To place the assembly on top of the unit safely, at least two persons are required. Place the assembled unit on top of the pump/dispenser ensuring that the assembly is centered on the pump/dispenser.
Note: Ensure that the decals on the canopy are properly displayed.
- 4 Place the holes in the brackets with the mounting holes in the pump/dispenser and secure in place using the four M04023B010 Bolts and four M00959B017 Washers.

Completing Installation

To complete the installation, proceed as follows:

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

Installing 16-inch Oval Canopy Kit is now complete.

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7300 West Friendly Avenue · Post Office Box 22087
Greensboro, North Carolina 27420
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