

Introduction

Purpose

This manual provides instructions for the installation of the following Totalizer kits on Encore® S dispensers:

- M07861K001 (Grade 1)
- M07861K002 (Grade 2)
- M07861K003 (Grade 3)
- M07861K004 (Grade 4)

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Required Tools

The following tools are required for the installation of the Totalizer kit:

- 1/4" socket

Parts List

The following table lists the parts included in the kits M07861K001, M07861K002, M07861K003, M07861K004.

Item	Description	Part Number	Quantity			
			M07861K001 (Grade 1)	M07861K002 (Grade 2)	M07861K003 (Grade 3)	M07861K004 (Grade 4)
1	1 Grade Totalizer Assembly	M07861A001	1	-	-	-
2	2 Grade Totalizer Assembly	M07861A002	-	1	-	-
3	3 Grade Totalizer Assembly	M07861A003	-	-	1	-
4	4 Grade Totalizer Assembly	M07861A004	-	-	-	1
5	Screw, slotted W/LW, self tapping, hex head	Q11677-24	2	2	2	2

Related Documents

Document Number	Title	GOLD Library
MDE-3804	Encore and Eclipse Start-Up/Service Manual	Encore and Eclipse
PT-1936	Encore Illustrated Parts Manual	Encore and Eclipse
MDE-4625	Graphic Panel Application for The Advantage® Series, Encore, Eclipse® and Encore S	Encore and Eclipse

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/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 Hazard Association (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.

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 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



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

WARNING



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

WARNING



Gasoline 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.

Installation of the Totalizer Kit

Notes: 1) Follow all safety precautions mentioned in “Important Safety Information” on page 3 during the installation.

2) Check the graphic panel for damage, and order the part, if it has to be replaced.

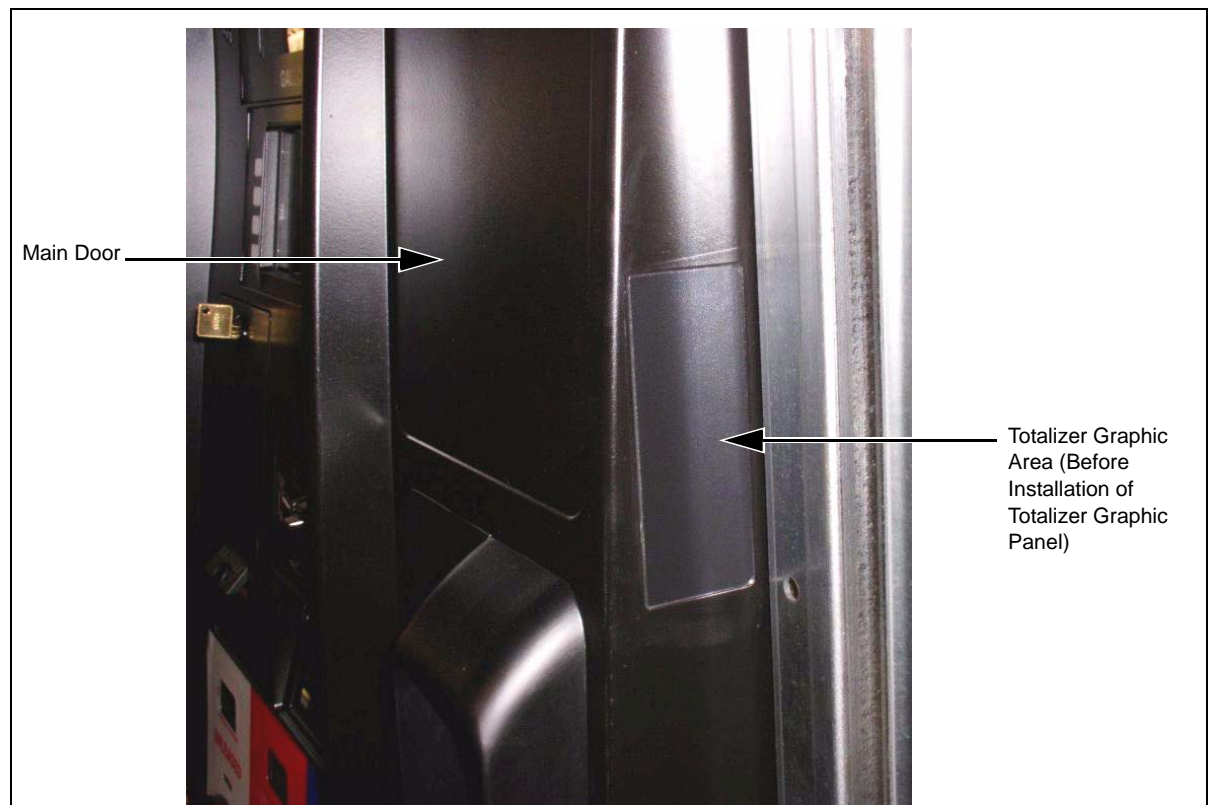
3) Graphics are order entry items, and not part of the kits.

4) The part number for the Totalizer Graphic Panel is ENS1601GXXX. The last three digits (XXX) indicate the color of the Graphic Panel. For example, the part number for a black Totalizer Graphic Panel is ENS1601G001.

To install the Totalizer kit, proceed as follows:

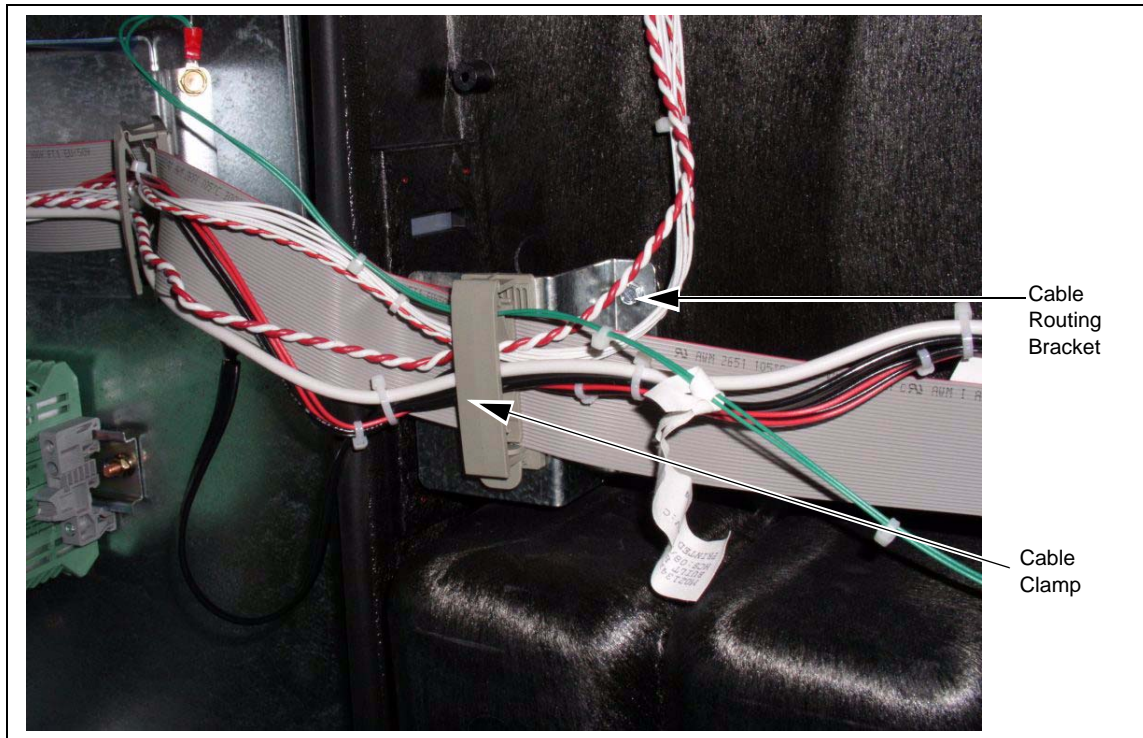
- 1 Disconnect all power to the unit.
- 2 Remove the lower panel and open the main door. If the door Totalizer area has an existing blank graphic panel, remove it using a small putty knife. For detailed information regarding graphics application and removal, refer to MDE-4625 Graphic Panel Application for The Advantage Series, Encore, Eclipse and Encore S (see [Figure 1](#)).

Figure 1: View of Totalizer Graphic Area and Main Door before Installing the Totalizer Assembly

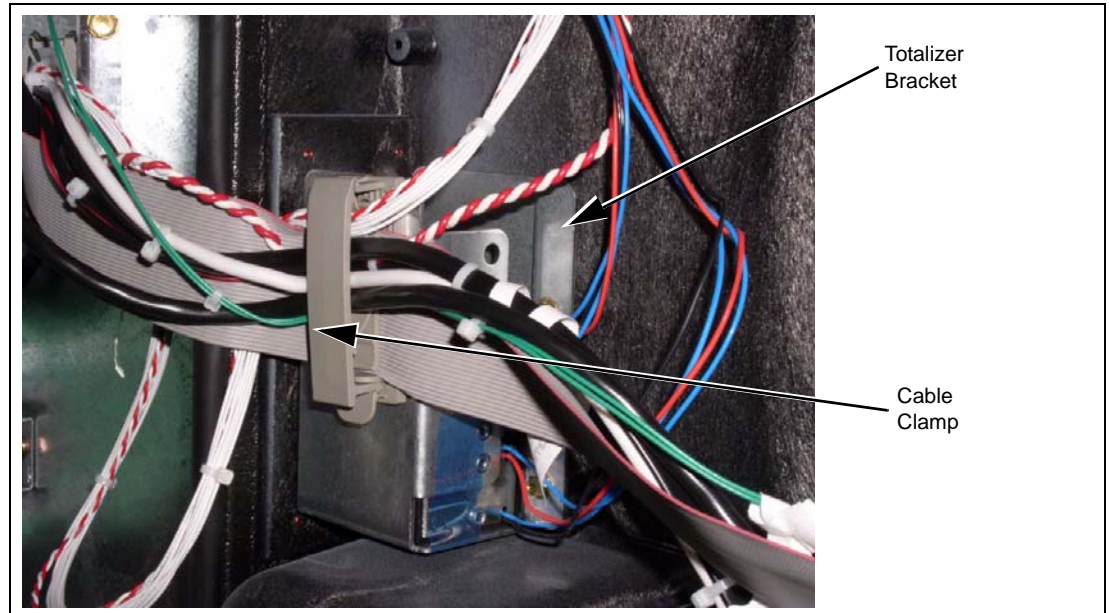


- 3 Open the cable clamp and let the cables hang loose (see [Figure 2](#) below).
- 4 Remove the cable routing bracket (see [Figure 2](#) below).

Figure 2: Cable Routing Bracket



- 5 Install the Totalizer assembly with the two screws provided in the kit (see [Figure 3](#)).
- 6 Add the new cable clamp to the Totalizer assembly (see [Figure 2](#)) and secure the cables using the cable clamp.

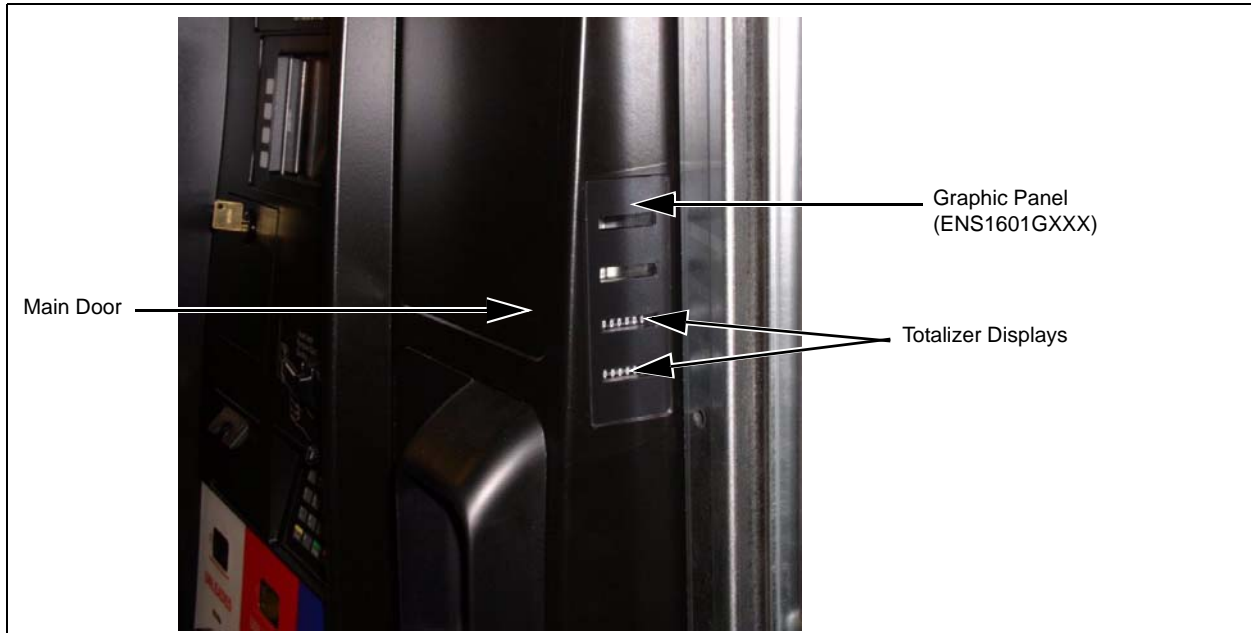
Figure 3: Installing the Totalizer Assembly

- 7 Make the appropriate Totalizer cable routing connections (see [Figure 4](#)).
- 8 Plug the lowest Totalizer to the position (P2121) on the door node. Each Totalizer above the lowest Totalizer will plug into the next position to the right, on the door node.

Figure 4: Installed View of the Totalizer Assembly with Cable connections

- 9 Close the main door.

Figure 5: Totalizer Graphic Area after Installing the Totalizer Assembly



- 10 Apply power to the unit.

The installation of the Totalizer kit is complete.

Programming the Unit for Totalizer(s)

To program the unit for Totalizer(s), proceed as follows:

- 1 Apply AC power using station circuit breaker to the unit being serviced.

Note: Unit should display error 5608 upon recognition that Totalizers have been added.

- 2 Use Manager Keypad to access Command Code 91, Function 11 to program unit for Totalizers. Set CC91, F11 at 2 for product Totalizers (1 Totalizer per inlet) or at 3 (1 Totalizer per product per side).

Note: Failure to perform this step will result in error 5608 being displayed.

- 3 Program unit for stand alone operation. Test all products on both sides to ensure that Totalizers operate properly.
- 4 Place unit back into normal service.
- 5 Refer to MDE-3804 Encore/Eclipse Start-up and Service Manual for additional information.

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