

Introduction

Purpose

This manual provides instructions to install the Auxiliary All Listen Kit (M15587K001) for Encore® S/700/900 Units.

Note: This installation requires two Authorized Service Contractors (ASCs).

Intended Users

This manual is intended for Gilbarco®-trained and certified ASCs.

Table of Contents

Topic	Page
Introduction	1
Important Safety Information	3
Before You Begin	5
Installing the Auxiliary All Listen Kit (M15587K001)	6

Required Tools

Following tools are required for installing the Auxiliary All Listen Kit:

- Phillips® #2 Screwdriver
- 8-mm Socket (or Nut Driver Set)
- Two Ladders

Parts List

Following table lists the parts included in the Auxiliary All Listen Kit:

Item #	Description	Part Number	Quantity
1	Auxiliary All Listen	M15587A001	1
2	Cable, Conduit	M10075A007	1
3	Washer, Flat 2.00X1.34X.06	N16599-108	2
4	Nut, Conduit 1.00	N23655-01	2
5	Wire Nut	K44293	2

Related Documents

Document Number	Title	GOLDSM Library
MDE-3804	Encore and Eclipse® Start-up/Service Manual	<ul style="list-style-type: none">• Encore and Eclipse• Service Manual
MDE-5356	Encore 900 Start-Up and Service Manual	<ul style="list-style-type: none">• Encore and Eclipse• Service Manual

Abbreviations and Acronyms

Term	Description
ASC	Authorized Service Contractors
ESD	Electrostatic Discharge
FCC	Federal Communications Commission
GOLD	Gilbarco Online Documentation
NFPA	National Fire Protection Association
NEC®	National Electrical Code
OSHA	Occupational Safety and Health Administration
PCA	Printed Circuit Assembly
STP	Submersible Turbine Pump
TAC	Technical Assistance Center

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 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 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

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. 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

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.
- 4 Read all the safety information provided in *MDE-3804 Encore and Eclipse Start-up/Service Manual* and *MDE-5356 Encore 900 Start-Up and Service Manual*.
- 5 Isolate two-wire cable to the unit.

WARNING

Failure to turn off the unit during the installation of the kit 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.

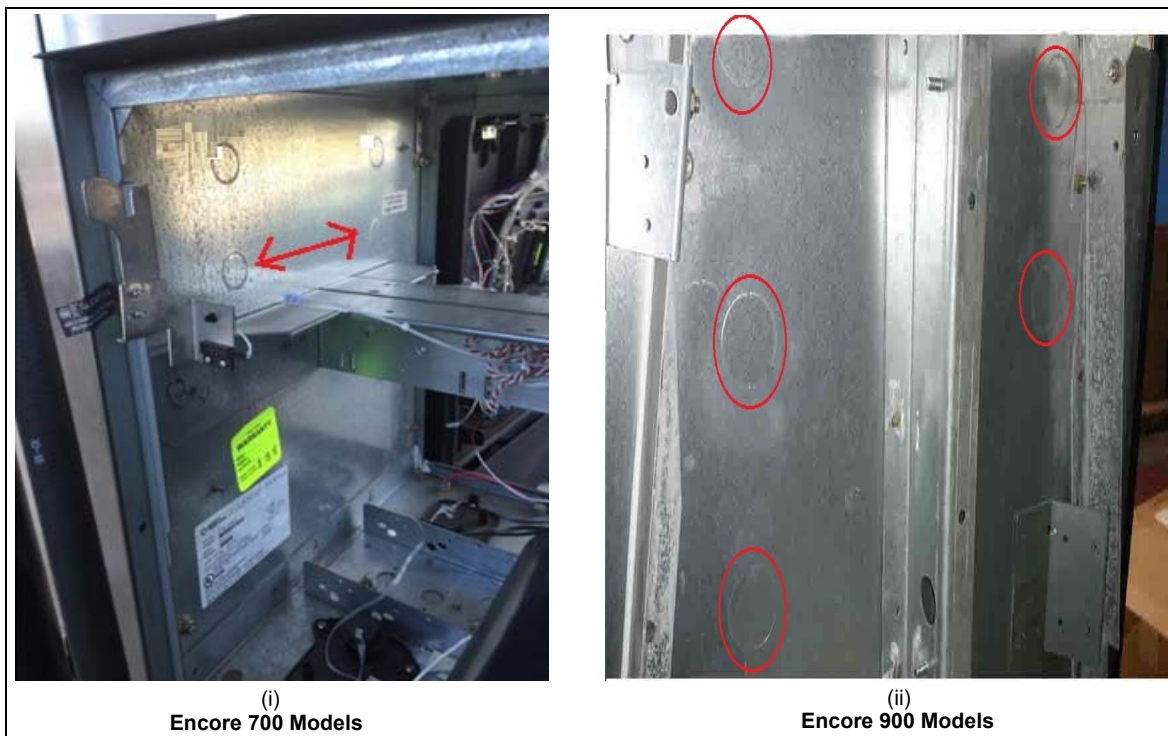
Installing the Auxiliary All Listen Kit (M15587K001)

- Notes: 1) Test all fueling positions to verify that the store can communicate with each fueling point when selected and that each fueling point can hear the store attendant.
2) When testing, verify that the volume is turned all the way up.*

To install the Auxiliary All Listen Kit, proceed as follows:

- 1 Open the bezel door of the unit and choose a side that has a free knockout (preferably a lower-side knockout).
- 2 Remove both inner sheathings and the outer sheathing on the side of the chosen knockout.

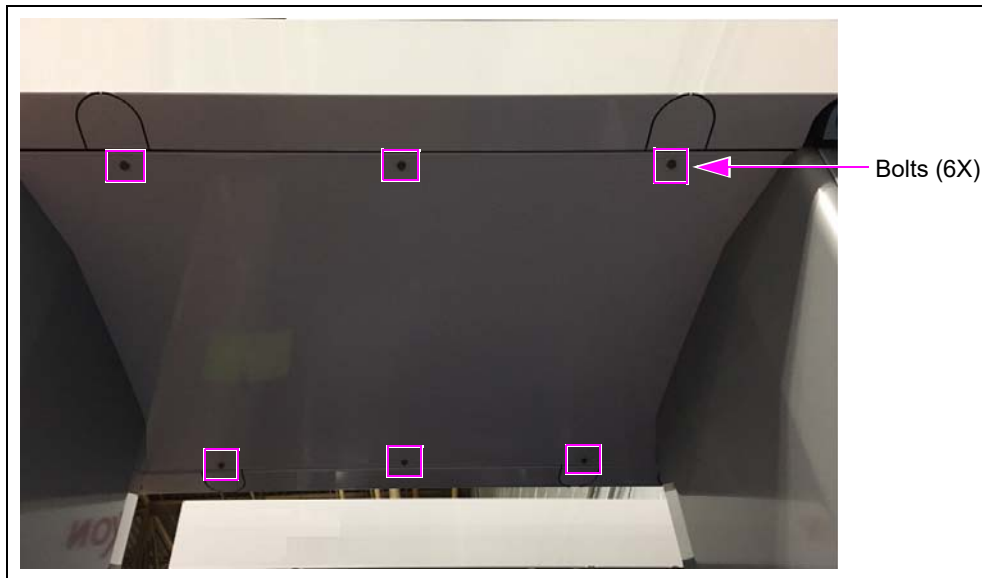
Figure 1: Removing Knockouts



- 3 Remove the chosen knockout.
- 4 Remove the upper housing bottom plate by removing the six bolts.

- 5 Replace with the new Auxiliary All Listen Kit (M15587K001) using the removed bolts. Let the speaker cable hang off the side of the upper housing bottom plate.

Figure 2: Removing Upper Housing Bottom Plate



- 6 In the removed knockout, install the supplied conduit cable using two conduit washers and two conduit nuts. The end with the connector should be on the outside of the unit.
- 7 Connect the upper speaker cable to the cable installed in step 6.

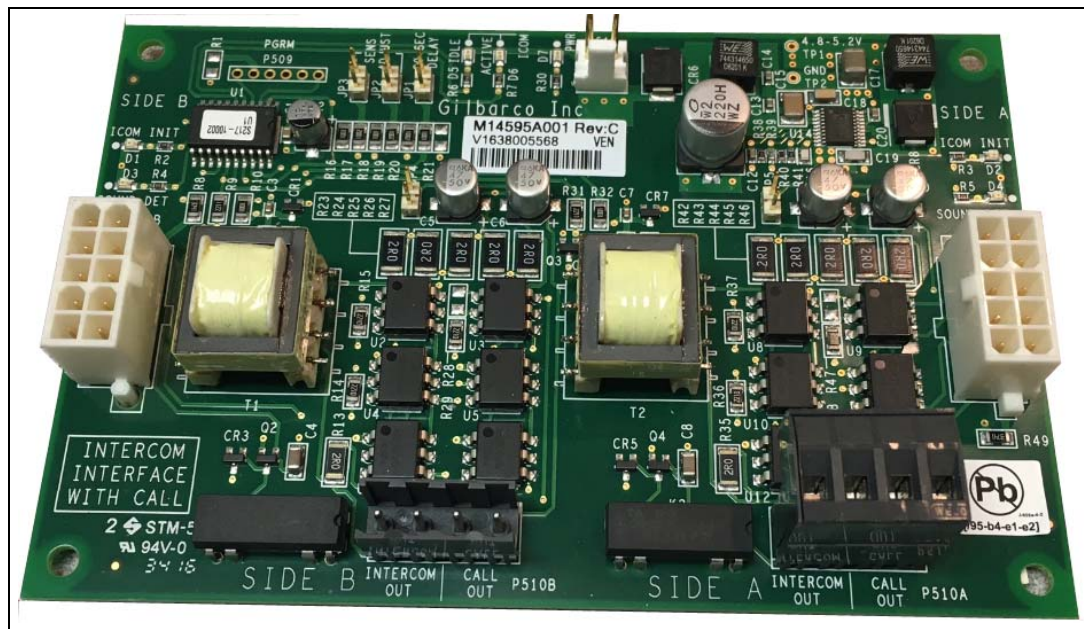
Connecting Cables Inside the Unit

To connect the cables inside the unit, proceed as follows:

Note: If the unit is identified to have Intercom with Call Interface Printed Circuit Assembly [PCA (M14595A001)] as shown in [Figure 1](#) on [page 6](#), proceed to [step 3](#).

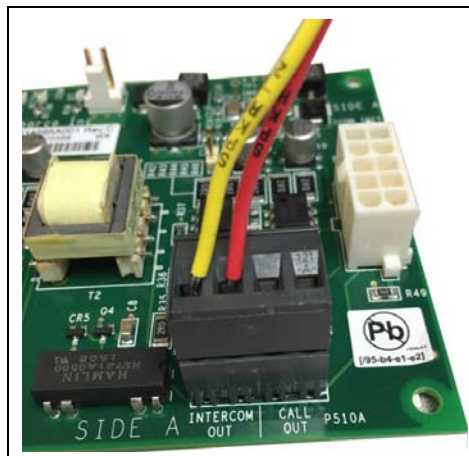
- 1 Remove the two-wire nuts from the side A junction points (where side A speaker connects to the intercom cables from the store).
- 2 Add the cables from the potted conduit to the two junction points so that there are now three wires at each wire nut. Installation is now complete.

Figure 3: Intercom with Call Interface PCA



- 3 Remove the screws from both the cable terminals labeled “Intercom Out” and install the two new cables to the existing cables in these ports (see [Figure 4](#)). Installation is now complete.

Figure 4: Installing Cable Conduits



Alternate Cabling Connection

A third set of communication cables can be run from the intercom box to the unit. In this case, attach a set of communication cables to each door speaker and the third set of communication cables to the upper speaker. This will allow the upper speaker to run off of its own intercom box port.

Figure 5: Connecting Cables Inside the Unit



Installing the Auxiliary All Listen Kit is now complete.

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