

Introduction

Purpose

This document provides instructions to install the FlexPay™ EMV® CRIND® Retrofit Kit (EPK EMV ENC3) in Encore® 300 units for Petronas® sites.

The EPK EMV ENC3 is a configured kit for Encore 300.

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Required Tools

Following tools are required for the installation of the FlexPay EMV CRIND Retrofit Kit:

- 1/4” Nut Driver
- 5/16” Nut Driver
- 9/32” Nut Driver

Parts List - EPK EMV ENC3

Note: The configured EPK EMV ENC3 kit provides the parts for Encore 300.

Door Assembly (Encore 300)

Part Number	Description	Used On	Quantity
M01208A9XX	CIM™ Door EPP	All E300 Models	2
PKM10354A001	PTGP, HIP Electronics E300 with USB Printer Upgrade	All E300 Models Upgrading to USB Printer	1
M10278K009	PTGP, Power Supply	Petronas Only	1
PKM10354A002	PTGP, HIP Electronics E300 with Fujitsu® Printer	All E300 Models	1
PKM10353A001	PTGP, E500/E300 EMV Door	All E300 Models	2
PKM10352A003	PTGP, Display, Generic	All Generic Display Customers	2
PKM10352A004	PTGP, Display, Global Pay Network	All Global Pay Customers	2
PKM11269AXXX	EMV Display	Specific Banks	2
PKM10352A012	PTGP, Display Mounting Kit	No Display	2

Part Number	Description	Used On	Quantity
PKM10353A002	PTGP, Printer	All E300 Models with USB Printer Upgrade	2
PGM10354A003	PTGP, Printer	All E300 Models without USB Printer Upgrade (Bulloch POS Only)	2
PKM10353A003	PTGP, Contactless Option	Units with Contactless	2
PGM01316A001	PTGP, TRIND® Lens for EPP Kits	All E300 Units with TRIND or Scanner	2
PKM10353A005	PTGP, TRIND EMV	All E300 Units with Existing TRIND	2
PKM10352A006	PTGP, TRIND EMV	All E300 Units with Existing TRIND	1
PKM08393A010	Gasket, Scanner Hood	All E300 Units with Scanner	2
PKM08393A005	Call Button Option	E300 Models with Call Built before 11/17/2002	2
M07333K001	Heater, Cabinet	All E300 Units Requiring Heater	1

Note: Parts are supplied as ordered.

Related Documents

Document Number	Title	GOLD Library
MDE-3804	Encore/Eclipse® Start-Up/Service Manual	<ul style="list-style-type: none"> Encore and Eclipse Service Manual
MDE-3970	Speaker Retrofit Kit	Encore and Eclipse

Abbreviations and Acronyms

Term	Description
CCN	CRIND Control Node
CIM	Customer Interface Module
CRIND	Card Reader IN Dispenser
EMV	Europay Mastercard® Visa®
OSHA	Occupational Safety and Health Administration
PCB	Printed Circuit Board
POS	Point Of Sale
SIP	Serial Interface PCB
SPOT	Secure PIN Pad for Outdoor Terminals

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 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.

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.

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.

Installing the FlexPay EMV CRIND Retrofit Kit in Encore 300 Dispensers

Removing the Existing Door

Before you begin, read and understand all safety information found in MDE-3804 Encore/Eclipse Start-Up/Service Manual - Safety Instructions.

Inform the Manager that the power must be removed and remove all power supplied to the unit at the breaker located in the building. Block off the unit from customers.

To install the FlexPay EMV CRIND Retrofit Kit in Encore 300 units, proceed as follows:

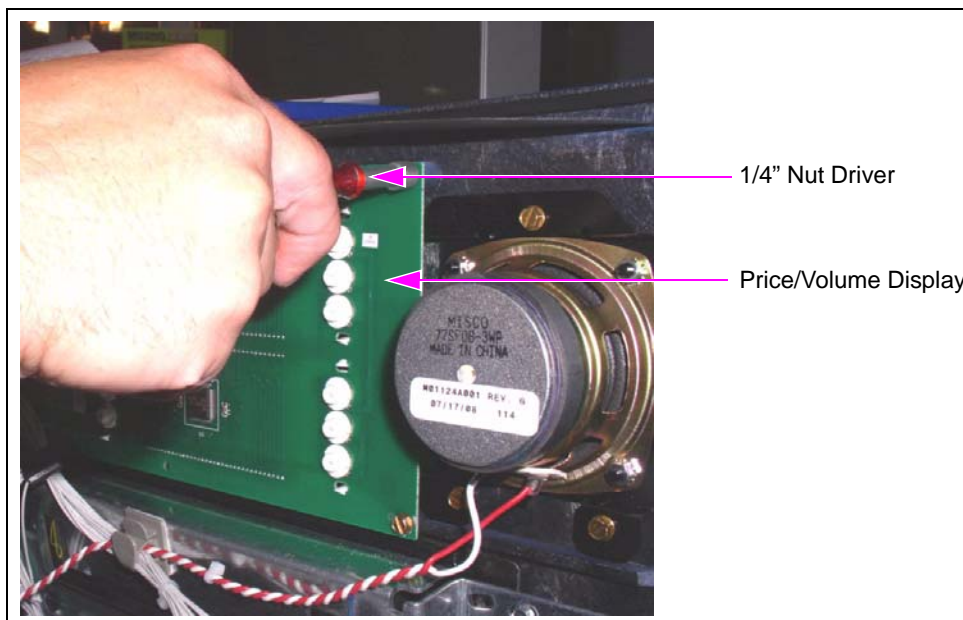
- 1 Remove power to the unit. Follow OSHA Lock-out/Tag-out procedures.

WARNING

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

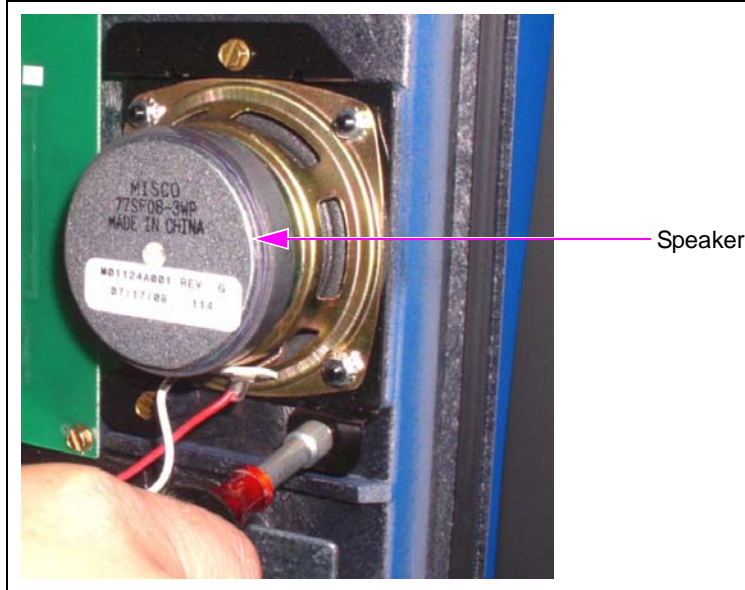
- 2 Open the main door.
- 3 Isolate the CRIND Two-wire cable.
- 4 Remove the screws that secure the Price/Volume Display using a 1/4" nut driver.
Note: The Price/Volume Display must be remounted on the new FlexPay EMV CRIND Door.

Figure 1: Removing the Price/Volume Display



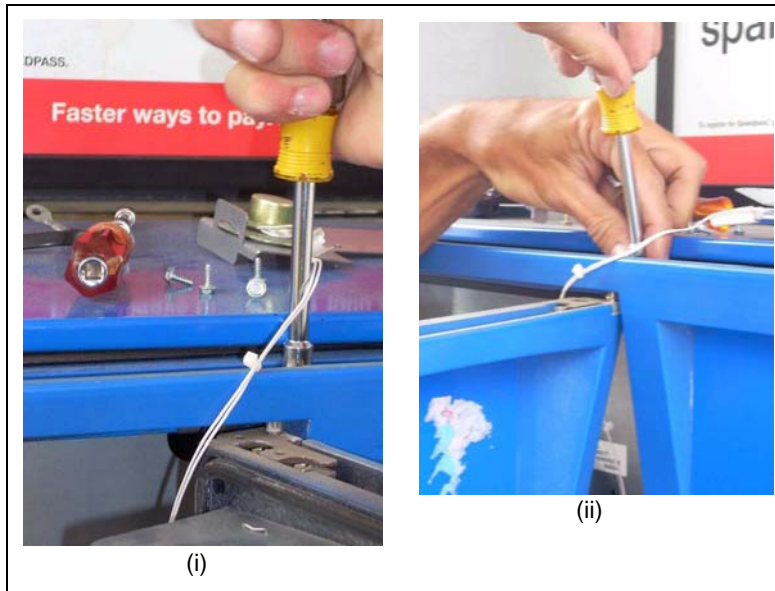
- 5 Remove the three screws that secure the speaker to the door using a 1/4" nut driver.
Note: The speaker must be remounted on the new FlexPay EMV CRIND Door.

Figure 2: Removing the Speaker



- 6 Remove the two screws and bracket that secure the CIM door.

Figure 3: Removing the Two Screws and Bracket



- 7 Remove the CIM door.

Installing the Pre-assembled FlexPay EMV CRIND Door

To install the pre-assembled FlexPay EMV CRIND Door, proceed as follows:

- 1 Mount the pre-assembled FlexPay EMV CRIND Door over the mounting location (see [Figure 4](#)).

Figure 4: Mounting Location of the FlexPay EMV CRIND Door



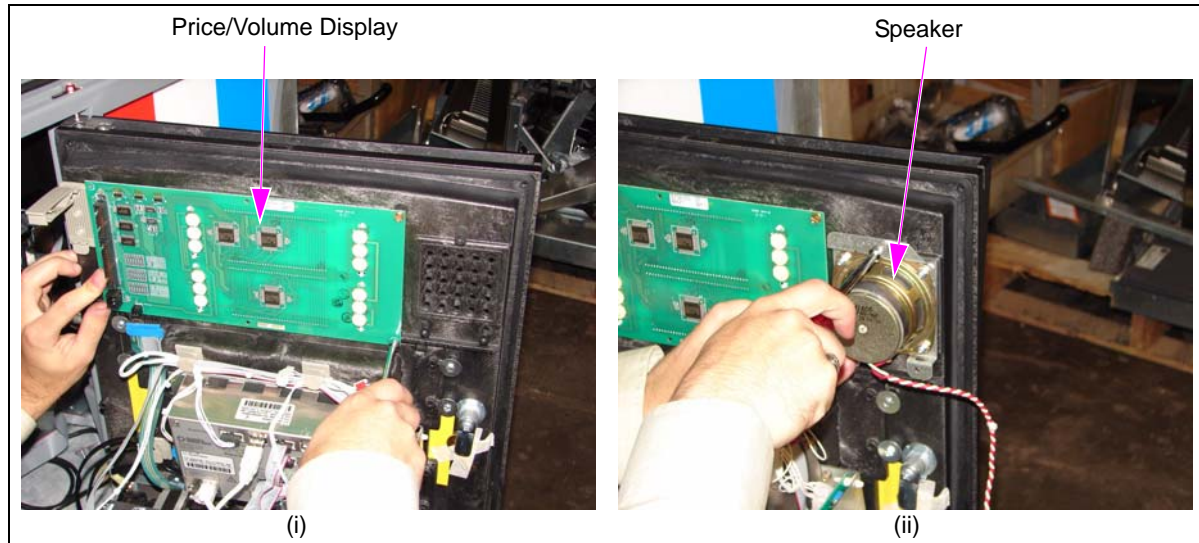
- 2 Insert the bracket and two screws. Tighten the screws to secure the new FlexPay EMV CRIND Door (see [Figure 5](#)).

Figure 5: Securing the FlexPay EMV CRIND Door



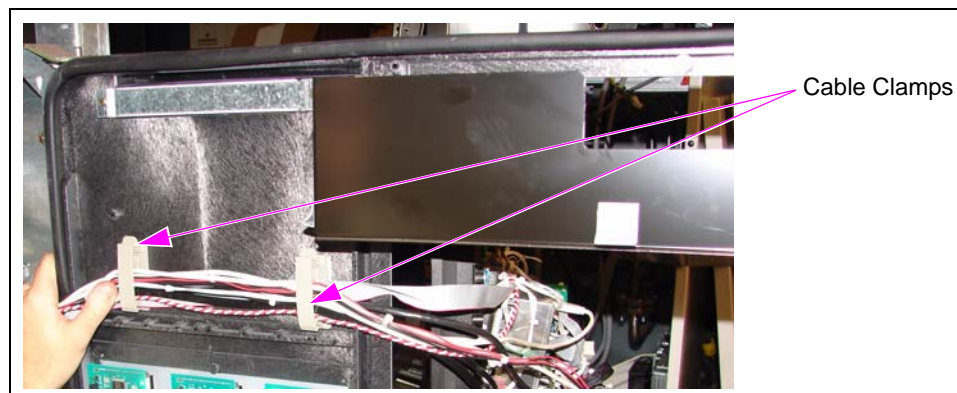
- 3 Remount the components from the old door (Price/Volume Display and speaker).
Note: If you are reusing the existing speaker, ensure that you install it on the new door.

Figure 6: Remounting the Price/Volume Display and Speaker



- 4 Route the wires from the new door into the CD Module through the cable clamps (see [Figure 7](#)).

Figure 7: Routing the Wires through the Cable Clamps



- 5 Connect the Ethernet Cable from the lightning barrier to Ethernet Port on the Secure PIN Pad for Outdoor Terminals (SPOT) display. An Ethernet Splitter Cable may be present from the lightning barrier if there are two SPOT displays to support.
- 6 Power up the C-56 Hengstler® printer.
Note: Printer power cable is connected to a socket that comes from the power supply.

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