

# Introduction

## **Purpose**

This manual provides instructions to install a FlexPay<sup>™</sup> Encrypting PIN Pad (EPP) and Secure Card Reader (SCR) Kit in Encore<sup>®</sup> S E-CIM<sup>™</sup> unit.

## **Intended Users**

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

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# **Required Tools and Materials**

Following tools and materials are required to install the FlexPay EPP and SCR Kit:

- 5/32-inch Nut Driver
- 5/16-inch and 1/4-inch Nut Driver or Ratchet/Socket Set *Note: Use magnetic nut drivers for convenience.*
- Flat-blade Screwdriver
- Phillips® Screwdriver
- Putty Knife
- Isopropyl Alcohol

# Parts List - EPK E-CIM RF

Following table lists the parts included in the FlexPay EPP and SCR Kit:

### FlexPay EPP Kit

Following table lists the parts included in the FlexPay EPP Kit:

			Quantity per
ltem	Description	Part Number	Side
1	Main Door, E-CIM Mono Display, EPP	M08484AXXX	1
	~OR~ Main Door, E-CIM 10.4" Display	~OR~ M08483AXXX	
2	Smartpad/Encrypted Pin Pad	M08228B003	1
3	Cable, EPP +5 V and Data	M08408A002	1
	~OR~	~OR~	
_	Cable, Card Reader/Secure Payment (SP) Interface	M07702A007*	
4	Cable Mount, Adhesive Releasable	Q13558-04	1
5	Screw, Metric, Thread Forming Hexagonal Washer Head, 6-20X	Q11677-26	4
6	Screw, Torx-head, M 3.5 X 10 Long	M14757B001	8
7	Keypad, Options	M08430B001	1
8	Cable, 3 or 7 Button Keypad, EMV® and E-CIM	M07957A003	1
9	Screw, Metric, Thread Forming Hexagonal Washer Head, 6-20X	Q11677-26	1
10	Label, Blanking EPP	M09166B001	1
11	Gasket, Card Reader	M13127B006	1
Option with C	nal Components Shipped Loose for Dispensers color Screen Option		Quantity per Dispenser
12	Printed Circuit Assembly (PCA), RS-232 to Transistor-Transistor Logic (TTL) Converter	M07592A001	1
13	Support, Circuit Board	Q10651-02	4
14	Cable, Serial Programming Port, Generic Color	M00719A004	1
15	Cable, RS-232 24 V Power	M07746A001	1
16	Cable, COM2	M07749A001	1
17	Flash Card, CRIND Software	M07743K001	1

\*If the FlexPay EPP Kit is ordered with the SCR Upgrade Option, this part will be included.

### SCR Option with Contactless - M07813K105

Following table lists the parts included in the M07813K105 Kit:

			Quantity	
Item	Description	Part Number	1-sided Kit	2-sided Kit
1	Reader, Encrypted Card	M07577B001	1	2
2	Cable, Ground Encrypted Card Reader	M07709A002	1	2
3	Assembly, Contactless Antenna	M08285A001	1	2
4	Decal, Underwriters Laboratories (UL®) Recognition and Federal Communications Commission (FCC) ID	N23951-11	1	2
5	Cable, Antenna, Encrypted	M07703A001	1	2
6	Bracket, Card Reader, Vertical	M07574B001	1	2
7	Screw, Metric, Thread Forming Hexagonal Washer Head, 6-20X	Q11677-24	4	8
8	Screw, Torx-head, M 3.5 X 10 Long	M14757B001	4	8
9	Cable Mount, Adhesive Releasable	Q13558-04	3	6

MDE-4780D FlexPay<sup>TM</sup> EPP and SCR Kit (EPK ECIM RF) Installation Instructions for Encore® S E-CIM<sup>TM</sup> · December 2015

			Quantity	
ltem	Description	Part Number	1-sided Kit	2-sided Kit
10	Card, Card Reader Cleaning	Q11482	1	1
11	Decal, Patent and FCC	M02962B009	1	1
12	Screw, Metric, Thread Forming Hexagonal Washer Head, 6-20X	Q11677-26	4	8

## SCR Option - M07813K106

Following table lists the parts included in the M07813K106 Kit:

			Quantity	
ltem	Description	Part Number	1-sided Kit	2-sided Kit
1	Reader, Encrypted Card	M07577B001	1	2
2	Cable, Ground Encrypted Card Reader	M07709A002	1	2
3	Bracket, Card Reader, Vertical	M07574B001	1	2
4	Screw, Metric, Thread Forming Hexagonal Washer Head, 6-20X	Q11677-24	4	8
5	Screw, Torx-head, M 3.5 X 10 Long	M14757B001	4	8
6	Cable Mount, Adhesive Releasable	Q13558-04	3	6
7	Card, Card Reader Cleaning	Q11482	1	1

# **Related Documents**

Document Number	Title	GOLD Library
MDE-3804	Encore and Eclipse <sup>®</sup> Start-up/Service Manual	<ul><li>Encore and Eclipse</li><li>Service Manual</li></ul>
MDE-4769	Personality Screen Change for Color Screen Update and/or Upload Instructions	<ul><li>Encore and Eclipse</li><li>Applause<sup>™</sup> Media System</li></ul>
MDE-4784	FlexPay Encrypting PIN Pad (EPP) Start-up and Service Manual	<ul> <li>Advantage<sup>®</sup> and Legacy<sup>®</sup></li> <li>FlexPay EMV</li> <li>Encore and Eclipse</li> </ul>
PT-1936	Encore Series Pumps and Dispensers Illustrated Parts Manual	<ul><li>Encore and Eclipse</li><li>Encore and Eclipse Installers</li><li>Parts Manual</li></ul>

# **Abbreviations and Acronyms**

Term	Description
ASC	Authorized Service Contractor
CCN	CRIND® Control Node
CIM™	Customer Interface Module
COM	Communication
CRIND	Card Reader in Dispenser
D-Box	Distribution Box
EMV	Europay <sup>®</sup> , MasterCard <sup>®</sup> , and Visa <sup>®</sup>
EPP	Encrypting PIN Pad
ESD	Electrostatic Discharge
OSHA	Occupational Safety and Health Administration
PCA	Printed Circuit Assembly

Term	Description
POS	Point of Sale
PPU	Price per Unit
SCR	Secure Card Reader
SP	Secure Payment
TAC	Technical Assistance Center
TRIND®	Transmitter/Receiver in Dispenser
TTL	Transistor-Transistor Logic
UL	Underwriters Laboratories

# **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).

### \Lambda 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 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.

### 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.



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 fluid lines.

### 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.

### \Lambda WARNING

The pump/dispenser contains a chemical known to the State of California to cause cancer.

### \Lambda 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)

### 



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.

### 



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 startup 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 understand all the safety information found in *MDE-3804 Encore and Eclipse Start-up/Service Manual*.

# CAUTION



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. Block off the unit from customers. Follow OSHA lockout/tagout procedures.
- 4 Match the parts received in the kit with "Parts List EPK E-CIM RF" on page 2.



Failure to turn off the unit during kit installation 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 FlexPay EPP Kit**

To install the FlexPay EPP Kit in Encore S E-CIM unit, proceed as follows:

- 1 Remove and retain the lower door.
- **2** Open the main door.

**3** Remove the grade select buttons by pushing down from the top of the soda button while pulling from the bottom of the soda buttons. The grade select bases will remain in position. *Note: Be careful not to dislodge the magnets.* 

### Figure 1: Removing Grade Select Buttons



- **4** Isolate the CRIND two-wire cable.
- **5** Remove the brand panel graphic using a flat-blade screwdriver.

Figure 2: Removing Brand Panel Graphic



**6** Clean residual glue, if any.

7 Remove the five screws on the top row that hold the lower portion of the CIM assembly in place, using a Phillips screwdriver.

### Figure 3: Removing Lower Portion of E-CIM Door

8 Disconnect the softkey cable from the softkey keypad. Remove the four screws that secure the door node.

### Figure 4: Removing Door Node



**9** Remove the upper CIM insert screws (1/2 inch and 1/4 inch) and washers that hold the main display lens in place, to facilitate the removal of the existing CIM assembly.

### Figure 5: Removing Upper CIM Insert Screws and Washers



**10** Remove the four screws (1/4 inch) that secure the monochrome display, using a 1/4-inch nut driver.

### Figure 6: Removing Monochrome Display



**11** Remove the card reader and card reader bracket, using a 1/4-inch nut driver.



Figure 7: Removing Card Reader and Card Reader Bracket

- 12 Remove any other peripherals that are installed on the CIM assembly.
- **13** Remove the three screws that secure the Price per Unit (PPU) board assembly, using a 1/4-inch nut driver.

### Figure 8: Removing PPU Board Assembly



- 14 Ensure that all wires that are connected to the CIM assembly have been removed.
- **15** Remove the screws that secure the CIM assembly. *Note: Retain the screws for reuse.*

### Figure 9: Removing CIM



- **16** Remove the existing CIM assembly.
- **17** Verify if the gasket on the CIM assembly to be installed is in place. Align the new CIM assembly to the main door, and reinstall all screws removed in step 15 back into the CIM to mount the CIM assembly in place.





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**18** Reinstall the three screws removed in step 13 on page 11, which secure the PPU board bracket in place.

### Figure 11: Installing PPU Board Bracket



**19** Reinstall the two upper CIM insert screws and washers that were removed in step 9 on page 10, to secure the main display lens.

Figure 12: Installing Upper CIM Insert Screws and Washers



**20** Reinstall the door node, using the four screws removed in step 8 on page 9.



Figure 13: Installing Door Node

**21** Inspect the bosses on the door before installing the card reader and display. Use M14757B001 Screws if the door has metal bosses and use Q11677-24 Screws if the door has non-metal bosses, for installation of these components.

### Figure 14: Metal and Non-metal Bosses



22 Reinstall the monochrome display, using the four screws as determined in step 21 on page 14.



Figure 15: Installing Monochrome Display

- **23** Reconnect the softkey cable to the Softkey keypad.
- **24** Connect the new call button cable that is installed on the door.
- **25** Reinstall the card reader and card reader bracket, using the four screws as determined in step 21 on page 14.





**26** Reconnect the cables that connect to the card reader.



### Figure 17: Connecting Cables to Card Reader

**27** Reinstall the five screws to secure the PPU board in place.

### Figure 18: Reinstalling PPU Board



# **IMPORTANT INFORMATION**

Before proceeding, ensure that the five screws securing the PPU Board have been reinstalled.

**28** Reinstall the brand panel graphic.

### Figure 19: Installing Brand Panel Graphic



**29** Reinstall the grade select buttons. Ensure that these are in the appropriate locations.

### Figure 20: Installing Grade Select Buttons



- **30** Repeat steps 1 on page 7 through 29 for side B of the unit.
- **31** For monochrome units, proceed to the section titled, "SmartPad<sup>TM</sup> Connections for Monochrome Units" on page 18. For color units, proceed to the section titled, "SmartPad Connections for Color Units" on page 19.

# SmartPad<sup>™</sup> Connections for Monochrome Units

To connect the SmartPad to Monochrome units, proceed as follows:

1 Connect the FlexPay EPP cable to the FlexPay EPP and the other end to P3101 SmartPad port on the CRIND Control Node (CCN).

# **IMPORTANT INFORMATION**

Connect the FlexPay EPP cable to P3102 on the CCN for side A, and P3101 on the CCN for side B of the unit.

### Figure 21: Connecting FlexPay EPP Cable



**2** Proceed to "Completing Installation" on page 26.

# **SmartPad Connections for Color Units**

### Installing RS-232 to TTL and RS-232 to TTL Converter PCA (M07592A001)

To install the RS-232 to TTL and RS-232 to TTL Converter PCA (M07592A001), proceed as follows:

- 1 Make the following connections on the RS-232 to TTL and M07592A001 PCA Board:
  - J202 of the Serial Programming Port Cable (M00719A004) to the P202 COM1 port
  - J227 of the COM2 Cable (M07749A001) to the P227 COM2 port
  - J302A of the RS-232 24 V Power Cable (M07746A001) to the P302A port

### Figure 22: Connecting RS-232 to TTL and M07592A001 PCA Board



**2** Secure the M07592A001 PCA Board to the rear of the color screen CPU assembly, using the four standoffs supplied as part of the kit.

### Figure 23: Securing Board to Rear of Color Screen CPU Assembly



**3** Connect J302X of the M07746A001 Cable to P302X on the color CRIND Interface Board (M06187A002).



### Figure 24: Connecting Power Supply Cables to Color CPU Assembly

**4** Connect the M07749A001 Cable from the P227 COM2 port on M07592A001 PCA Board to CN27 on the 10.4-inch CPU Board (M03377A001).



Figure 25: Connecting COM2 Port Cable to Color CPU Assembly

**5** Connect the M00719A004 Cable from the P202 COM1 port on M07592A001 PCA Board to CN2 on the 10.4-inch CPU board.

### Figure 26: Connecting COM1 Port Cable to Color CPU Assembly



6 Connect the FlexPay EPP cables from the rear of the keypads to the appropriate SmartPad ports on the M07592A001 PCA Board: P3101 for side B and P3102 for side A.



### Figure 27: Connecting FlexPay EPP Cables to SmartPad Ports on Board

7 Proceed to "Upgrading Flash Card on Color Screen CRIND CPU Assembly" on page 24.

### Upgrading Flash Card on Color Screen CRIND CPU Assembly

To upgrade the flash card on the color screen CRIND CPU assembly, proceed as follows:

1 Release the color screen CRIND CPU assembly from the standoffs.

### Figure 28: CPU Board



**2** Lower the CPU board to gain access to the rear portion that contains the flash card.

**3** Remove the existing flash card and insert the CRIND Software Flash Card (M07743K001), which contains the upgraded software (see Figure 29). *Note: Ensure that you do not bend the pins when you install the flash card.* 





**4** Secure the color screen CRIND CPU assembly to the standoffs.

**5** Check if any cables were disconnected from the color screen CRIND CPU assembly when installing the flash card. Secure/reconnect any loose/disconnected cables.



### Figure 30: Reconnecting Cables to Color Screen CRIND CPU Assembly

- 6 After the flash upgrade has been performed, reload the personality screen(s). For more information on how to reload and configure the personality screens, refer to *MDE-4769 Personality Screen Change for Color Screen Update and/or Upload Instructions*.
- 7 Proceed to "Completing Installation".

### **Completing Installation**

To complete the installation, proceed as follows:

- **1** Restore power to the unit.
- **2** Purge memory.
- **3** When the dispenser comes up, enter the CRIND diagnostic mode, program the CRIND IDs, CRIND mode, and enable any peripheral devices (cash acceptors, TRIND, and so on).
- 4 Use the FlexPay EPP mapping tool to map keys (and their associated functions) present in the current keypad to those present on the FlexPay EPP. For more information, refer to *MDE-4784 FlexPay Encrypting PIN Pad Start-up and Service Manual.*
- **5** Bring the Point of Sale (POS) back on line by reconnecting the CRIND two-wire cable or by de-isolating at the Distribution Box (D-Box).
- 6 After the CRIND downloads from the POS, run a keypad test.

7 Check if debit transactions are accepted using the newly installed FlexPay EPP.



Figure 31: Encore S E-CIM Unit with FlexPay EPP Installed

Installing the FlexPay EPP Kit in Encore S E-CIM unit is now complete.

# **Installing SCR Kit**

To install the SCR Kit, proceed as follows:

- 1 Disconnect the ground cable and data cable from the existing (standard) card reader.
- 2 Remove the four screws that secure the card reader assembly to the dispenser, using a 1/4-inch nut driver. Retain the screws for reassembly.
- **3** Pull the card reader assembly off the door from behind.

# <image>

### Figure 32: Removing Existing Card Reader Assembly

- 4 Remove and retain the four screws that secure the card reader and bracket.
- **5** Remove and discard the existing card reader.

- 6 Install the new non-adhesive gasket over the front of the card reader and ensure that the gasket is seated on the flange and covers the dismount buttons as shown in Figure 33.
  - Note: The non-adhesive gasket is laid over the card reader snout first, then the card reader is inserted into the card reader opening on the door. In this application, the card reader becomes your insertion tool.



### Figure 33: New Card Reader Gasket

7 Slide the new card reader bracket around the card reader.

### Figure 34: Installing New Card Reader



- 8 Install the card reader assembly on the door of the dispenser, using the four screws that were removed in step 2 on page 28.
- **9** Connect the ground cable to the jack on top of the card reader. Secure the ring terminal on the stud where the ground cable of the previous card reader was installed.
- **10** Connect the M07702A007 Card Reader/SP Interface Cable to the port on top of the card reader.

### Figure 35: Connecting Ground and Data Cable



Installing the SCR Kit in Encore S E-CIM unit is now complete.

The Advantage<sup>®</sup> Series, CRIND<sup>®</sup>, Encore<sup>®</sup>, Eclipse<sup>®</sup>, Gilbarco<sup>®</sup>, Legacy<sup>®</sup>, and TRIND<sup>®</sup>, are registered trademarks of Gilbarco Inc. CIM<sup>™</sup> is a trademark of Gilbarco Inc. E-CIM<sup>™</sup>, FlexPay<sup>™</sup>, Applause<sup>™</sup> Media System, and SmartPad<sup>™</sup> are trademarks of Gilbarco Inc. EMV<sup>®</sup> is a registered trademark of EMVCo LLC. Europay<sup>®</sup> and MasterCard<sup>®</sup> are registered trademark of MasterCard International Inc. GOLD<sup>SM</sup> is a service mark of Gilbarco Inc. Phillips<sup>®</sup> is a registered trademark of the Phillips Screw Company. UL<sup>®</sup> is a registered trademark of Underwriters Laboratories Inc. Visa<sup>®</sup> is a registered trademark of Visa Inc.



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