

MDE-4736D FlexPay[™] EPP Heater Kit, Card Reader Heater, and UPM Heater Kit Installation Instructions November 2017

Introduction

Purpose

This manual provides instructions to install the FlexPay[™] Encrypting PIN Pad (EPP) Heater Kit (M08631K001), Card Reader Heater (M11243B001), and Universal Payment Module (UPM) Heater Kits (M14778K001, M14778K002, and M14778K003) on Encore[®] 300/500/ 500 S/S E-CIM[™], Eclipse[®], and The Advantage[®] Series units. *Note: Card reader heater is sold separately.*

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Required Tools

The following tools are required for the installation:

- 1/4-inch Nut Driver or Ratchet and Socket
- 5/16-inch Nut Driver Note: Use magnetic nut drivers for convenience.
- Phillips® Screwdriver

Parts List

EPP Heater Kit

The following table lists the parts included in EPP Heater Kit:

Item #	Description	Part Number	Quantity
1	Assembly, Power Supply, EPP	M07953A003	1
2	Cable, AC Power EPP	M08422A001	1
3	Cable-ties	Q10178-03	3
4	Screw, Metric M5 X 10	M00417B101	2
5	Screw, Metric M4 X 12	M00417B115	2
6	Cable, AC Power	M04406A001	1
7	Cable, MagTek® Heater	M09229A003	2

UPM Heater Kit

The following table lists the parts included in the UPM Heater Kit:

Item #	Description	Part Number	Quantity
1	Assembly, Power Supply, UPM Heater	M07953A006	1
		M07953A007	
		M07953A008	
2	Cable, AC Power, UPM Heater	M08422A001	1
3	Cable-ties	Q10178-03	3
4	Screw, Metric M5 X 10	M00417B101	2
5	Screw, Metric M4 X 12	M00417B115	2
6	Cable, AC Power Distribution	M04406A001	1

Related Documents

Document Number	Title	GOLD℠ Library
MDE-2531	Pump and Dispenser Start-up and Service Manual	Pump and Dispenser Start-upService Manual
MDE-3804	Encore and Eclipse Start-up/Service Manual	Encore and EclipseService Manual
MDE-3985	Encore Installation Manual	 Encore and Eclipse Encore and Eclipse Installers Footprint and Elevations
MDE-3986	Eclipse Installation Manual	Encore and EclipseEncore and Eclipse Installers
MDE-4784	FlexPay Encrypting PIN Pad (EPP) Start-up and Service Manual	 Advantage and Legacy[®] Models Encore and Eclipse FlexPay EMV[®]
MDE-5221	FlexPay IV CRIND® Start-up Manual	FlexPay IV
PT-1728	The Advantage Series Pumps and Dispensers Illustrated Parts Manual	Parts Manual
PT-1936	Encore Series Pumps and Dispensers Illustrated Parts Manual	Encore and EclipseEncore and Eclipse InstallersParts Manual
PT-1938	Eclipse Illustrated Parts Manual	Encore and EclipseEncore and Eclipse InstallersParts Manual

Abbreviations and Acronyms

Computer Display Card Reader in Dispenser
Enhanced Customer Interface Module
Europay®, MasterCard®, and Visa®
Encrypting PIN Pad
Electrostatic Discharge
Gilbarco® Online Documentation
Mass Terminal Assembly
Occupational Safety and Health Administration
Printed Circuit Board
Secure Card Reader
Universal Payment Module

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

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.

equipment damage.

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.

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).

\Lambda 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.



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.

MARNING

Gasoline/DEF spilled on skin may cause burns. Wash area thoroughly with clear water. Seek medical advice immediately.

\Lambda 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** Read and understand all the safety information found in *MDE-3804 Encore and Eclipse Start-up/Service Manual.*
- **4** Remove all the power supplied to the unit at the breaker panel. Follow OSHA lockout/tagout procedures.
- **5** Isolate two-wire cable to the unit.



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.

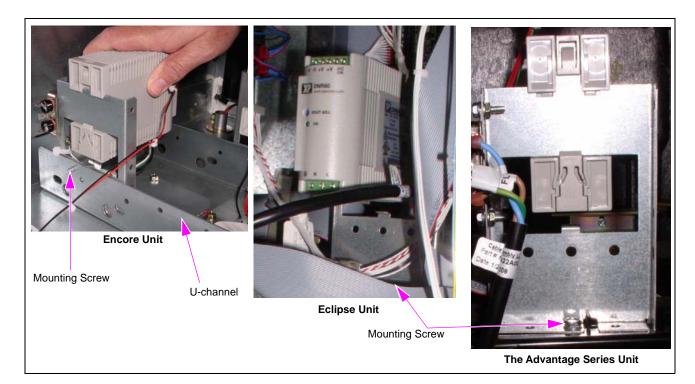
Installing FlexPay EPP Heater Kit (M08631K001)

Note: Following procedure is identical for Encore 300/500/500 S/S E-CIM, Eclipse, and The Advantage Series units.

To mount the power supply assembly, follow these guidelines:

- Encore units Anywhere along the U-channel that runs across the center of the Computer Display (CD) module.
- Eclipse units On the upper electronics shelf of the CD module.
- The Advantage Series units On the lower electronics shelf of the CD module.

Figure 1: Mounting Power Supply Assembly



Installing Power Supply Bracket (M03700B001) and Power Supply Assembly (M07953A003)

To install the power supply bracket and power supply assembly, proceed as follows:

- Select an appropriate mounting hole on the power supply bracket to mount the power supply assembly to the CD module (see Figure 1).
 Note: Power supply bracket is part of the power supply assembly (see Figure 3 on page 9).
- **2** Select the M00417B101/M00417B115 Screw that will thread into the mounting hole, to mount the power supply assembly on the CD module (U-channel or electronics shelf).

3 Using the M00417B101/M00417B115 Screw, connect the ground wire running from the power supply assembly to the power supply bracket.

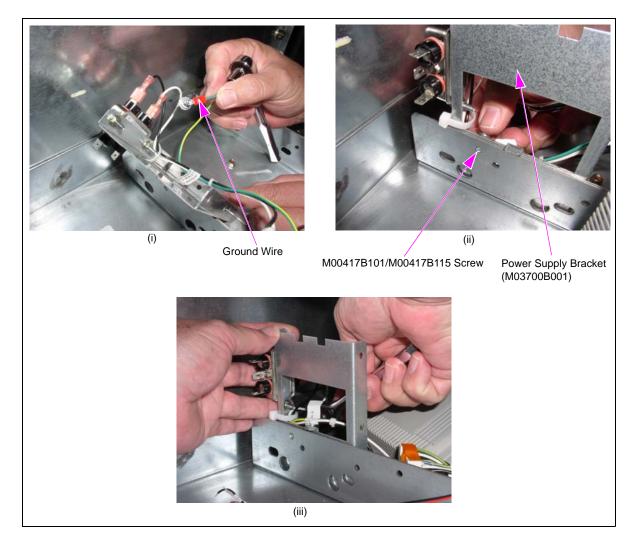


Figure 2: Connecting Ground Wire to Power Supply Assembly

- 4 Attach the power supply bracket to the CD module and tighten the screw to secure the power supply bracket in place (see Figure 2).
- **5** Mount the power supply assembly on the power supply bracket by sliding the notches over the top portion of the power supply bracket (see Figure 1 on page 7).
- 6 Connect the wires as shown in "EPP Heater Option" on page 25.

Routing and Connecting Cables

Connecting EPP and Card Reader Heater Power Cable (M07952A005)

To route and connect the EPP and card reader heater power cable, proceed as follows:

1 Route the EPP and card reader heater power cable (see Figure 3) along the CD module, routing one end to one door, and the other end to the opposite door. Secure the cable in place using the existing cable clamps and Cable-ties (Q10178-03) provided (see Figure 4) in the kit.

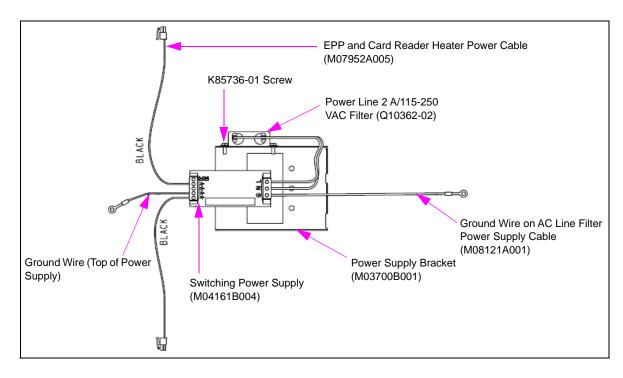
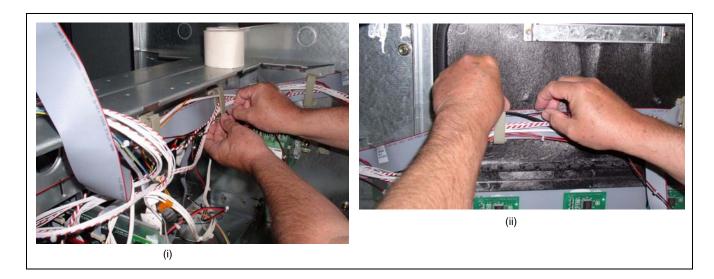


Figure 3: Power Supply Assembly (M07953A003)

Figure 4: Routing EPP and Card Reader Heater Power Cable (M07952A005)



Connecting Ground Cables

To connect the ground cables, proceed as follows:

1 Connect both ground terminals of Switching Power Supply (M04161B004) to the dispenser chassis, one from the top and one from the bottom (see Figure 3 on page 9 and Figure 5).

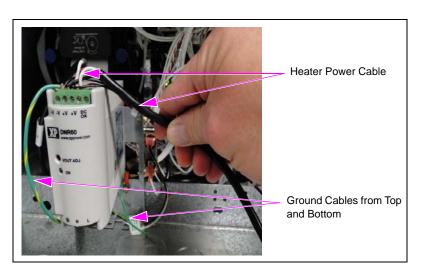


Figure 5: Connecting Switching Power Supply to Dispenser Chassis

2 Ensure that the ground wire on the AC Power EPP Cable (M04406A001) is connected to the chassis ground (see Figure 6).

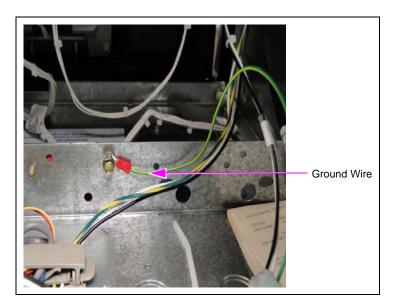


Figure 6: Connecting Ground Wire to U-channel Chassis

Connecting EPP and Card Reader Heater Power Cable to Power Supply Assembly

Attach the EPP and card reader heater power cable to the DC output of the power supply assembly (see Figure 5 on page 10 and Figure 29 on page 25).

Note: EPP and card reader heater power cable has connectors for both EPP and Secure Card Reader (SCR) 2 card reader heaters.

Connecting EPP AC Power Cable to Power Supply Assembly

Plug the EPP AC power cable (fasten connectors FL1, FL2, and FL3) to the AC Line Filter Power Supply Cable [M08121A001 (fasten tabs 1, 2, and 3)] on the power supply assembly (see Figure 28 on page 24 and Figure 30 on page 25).

Figure 7: Connecting EPP AC Power Cable to AC Line Filter Power Supply Cable



Connecting EPP AC Power Cable to AC Power Cable - Encore and Eclipse Units

For all Encore and Eclipse units, connect the P601/P708 Mass Terminal Assembly (MTA) connector on the EPP AC power cable to any unused MTA connector on AC power cable.

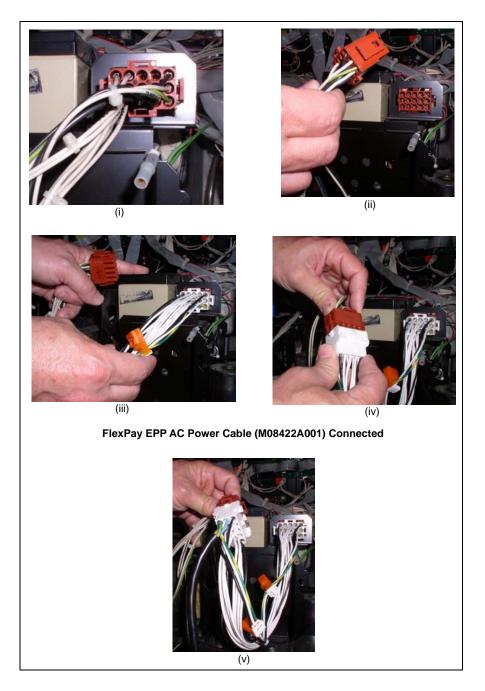
Connecting EPP AC Power Cable to AC Power - The Advantage Series Units

To connect the EPP AC power cable for The Advantage Series units, which do not have an AC power cable, proceed as follows:

- 1 Connect the EPP AC power cable as shown in Figure 8 on page 12.
- 2 Remove the plug that is currently in the J601 connector of the unit's main power supply.
- 3 Plug the J601 connector on the EPP AC power cable into the main power supply connector.

4 Place the plug that was in the main power supply connector into the P601 connector of the EPP AC power cable (see Figure 8).

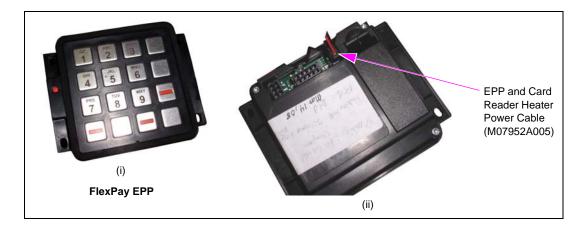
Figure 8: Connecting EPP AC Power Cable for The Advantage Series Units



Connecting EPP Heater Power Cable to FlexPay EPP

Connect the HTR PWR A and HTR PWR B connectors on the EPP and card reader heater power cable (see Figure 27 on page 24) to the FlexPay EPP PIN pads as shown in Figure 9.

Figure 9: Connecting EPP and Card Reader Heater Power Cable to FlexPay EPP PIN Pad



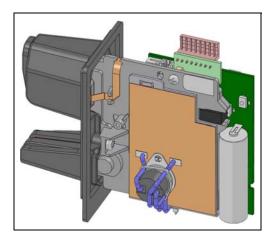
Installing Card Reader Heater (M11243B001)

To install the card reader heater option onto MagTek SCR 21063025, proceed as follows:

Attaching Card Reader Heater onto SCR 2

Before mounting the thermal heater onto the SCR 2, the card reader label has to be moved. Older card readers have the identification label over three holes which are used to locate the heater ramp. Newer card readers have the label placed parallel to the large battery on the Printed Circuit Board (PCB). In both cases, the card reader label is covered by the heater after installation if the label is not moved.

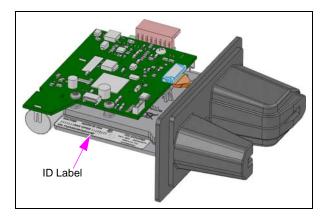
Figure 10: Card Reader with Heater



To attach the heater onto the SCR 2, proceed as follows:

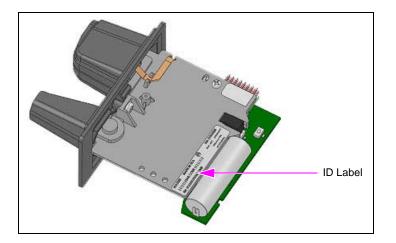
1 If the ID label is located as in Figure 11, carefully peel off the label.

Figure 11: ID Label



2 Align the ID label as in Figure 12 and press onto the housing.

Figure 12: New Position of ID Label



3 Align the heater ramp pins with three holes which are in the card reader (see Figure 13).

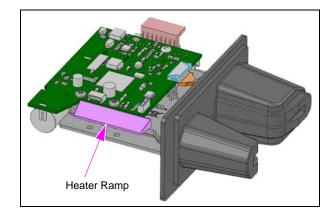
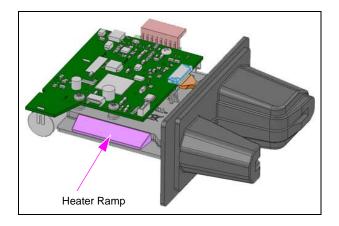


Figure 13: Heater Ramp

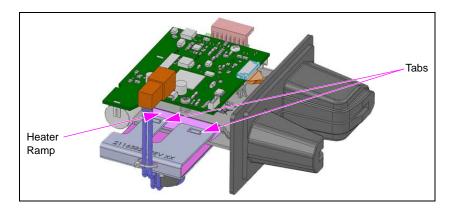
4 Place the pins in the holes and press ramp into the position as shown in Figure 14.

Figure 14: Placing Pins in Holes



5 Position the heater so that both tabs slide up the heater ramp (see Figure 15).

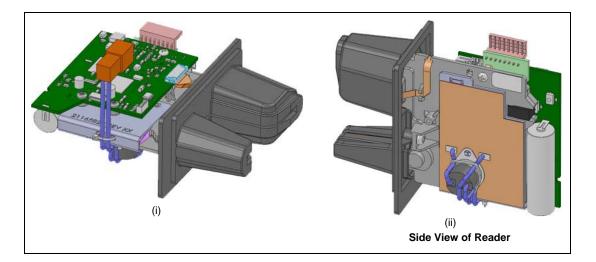
Figure 15: Position of Heater



Damage to the PCB may occur if the heater is incorrectly slid into position. Exercise care when sliding the heater tabs up the ramp and then underneath the PCB.

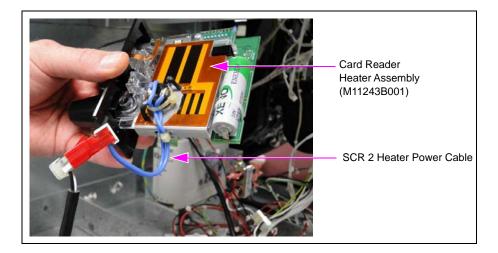
Figure 16 shows the heater installed.

Figure 16: Heater Installation Complete



6 Connect the SCR 2 Heater Power Connector [MagTek A and B on EPP and Card Reader Heater Power Cable (M07952A005)] to the Card Heater Assembly [M11243B001 (see Figure 17)].

Figure 17: Connecting SCR 2 Heater Power Connector Cable to Card Reader Heater Assembly



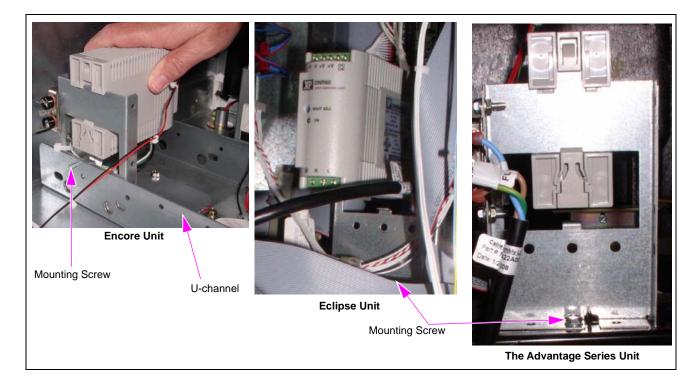
Installing UPM Heater Kit (M14778K001, M14778K002, and M14778K003)

Note: Following procedure is identical for Encore 300/500/500 S/S E-CIM, Eclipse, and The Advantage Series units.

To mount the power supply assembly, follow these guidelines:

- **Encore units** Anywhere along the U-channel that runs across the center of the CD module.
- Eclipse units On the upper electronics shelf of the CD module.
- The Advantage Series units On the lower electronics shelf of the CD module.

Figure 18: Mounting Power Supply Assembly



Installing Power Supply Bracket (M03700B001) and UPM Heater Power Supply Assembly (M07953A006, M07953A007, and M07953A008)

To install the power supply bracket and power supply assembly, proceed as follows:

- 1 Select an appropriate mounting hole on the power supply bracket to mount the power supply assembly to the CD module (see Figure 18). *Note: Power supply bracket is part of the power supply assembly (see Figure 20 on page 19).*
- **2** Select the M00417B101/M00417B115 Screw that will thread into the mounting hole, to mount the power supply assembly on the CD module (U-channel or electronics shelf).
- **3** Using the M00417B101/M00417B115 Screw, connect the ground wire running from the power supply assembly to the power supply bracket.

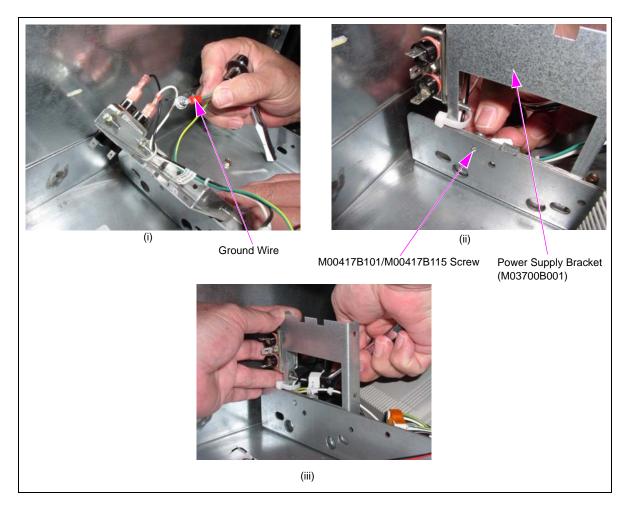


Figure 19: Connecting Ground Wire to Power Supply Assembly

- 4 Attach the power supply bracket to the CD module and tighten the screw to secure the power supply bracket in place (see Figure 19).
- **5** Mount the power supply assembly on the power supply bracket by sliding the notches over the top portion of the power supply bracket (see Figure 18 on page 17).
- 6 Connect the wires as shown in "UPM Heater Option" on page 28.

Routing and Connecting Cables

Connecting UPM Heater Power Cable (M14337A001 and M14337A002)

To route and connect the UPM and card reader heater power cable, proceed as follows:

1 Route the UPM heater power cable (see Figure 20) along the CD module, routing one end to one door, and the other end to the opposite door. Secure the cable in place using the existing cable clamps and Cable-ties (Q10178-03) provided in the kit (see Figure 21).

Figure 20: UPM Heater Power Supply Assembly (M07953A006, M07953A007, M07953A008)

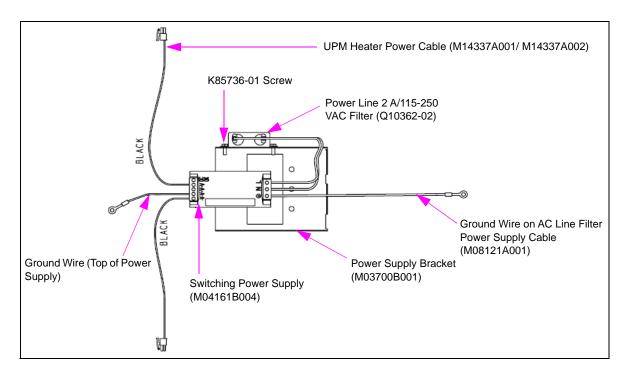
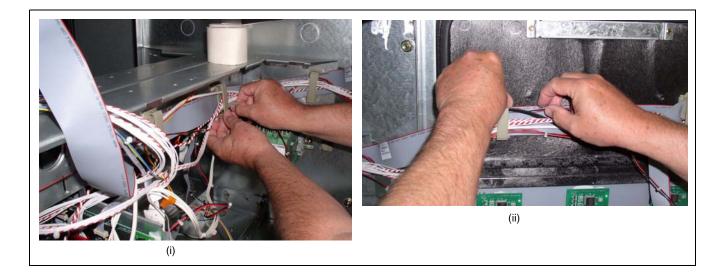


Figure 21: Routing UPM Heater Power Cable (M14337A001, M14337A002)



Connecting Ground Cables

To connect the ground cables, proceed as follows:

1 Connect both ground terminals of switching power supply to the dispenser chassis, one from the top and one from the bottom (see Figure 20 on page 19 and Figure 22).

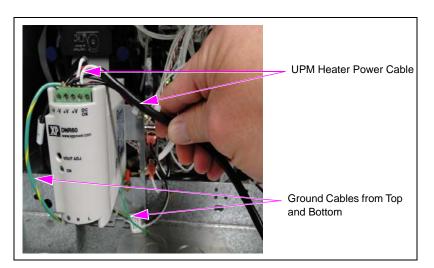


Figure 22: Connecting Switching Power Supply to Dispenser Chassis

2 Ensure that the ground wire on the UPM AC Power Cable (M04406A001) is connected to the chassis ground (see Figure 23).

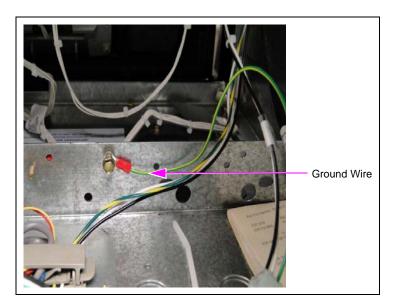


Figure 23: Connecting Ground Wire to U-channel Chassis

Connecting UPM Heater Power Cable to Power Supply Assembly

Attach the UPM heater power cable, if not already connected to the DC output of the power supply assembly (see Figure 22 on page 20 and Figure 29 on page 25).

Connecting UPM AC Power Cable to Power Supply Assembly

Plug the UPM AC power cable (fasten connectors FL1, FL2, and FL3) to the AC line filter power supply cable (fasten tabs 1, 2, and 3) on the power supply assembly (see Figure 33 on page 27 and Figure 35 on page 28).

Figure 24: Connecting UPM AC Power Cable to AC Line Filter Power Supply Cable



Connecting UPM AC Power Cable to AC Power Cable - Encore Units

For all Encore units, connect the P601/P708 MTA connector on the UPM AC power cable to any unused MTA connector on AC power cable.

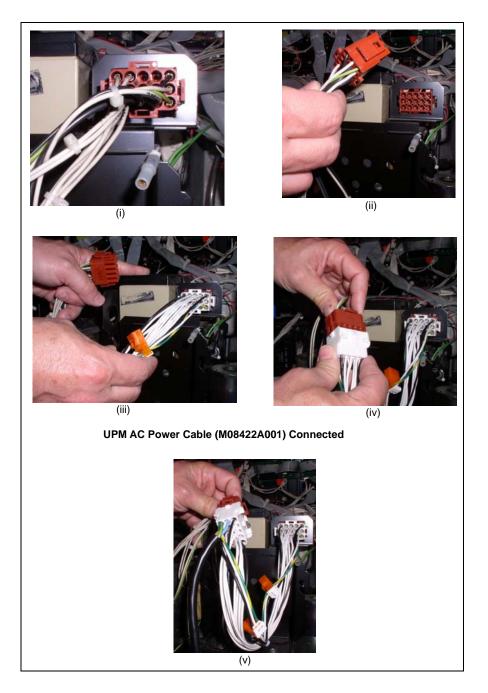
Connecting UPM AC Power Cable to AC Power - The Advantage Series Units

To connect the UPM AC power cable for The Advantage Series units, which do not have an AC power cable, proceed as follows:

- 1 Connect the UPM AC power cable as shown in Figure 25 on page 22.
- 2 Remove the plug that is currently in the J601 connector of the unit's main power supply.
- **3** Plug the J601 connector on the UPM AC power cable into the main power supply connector.

4 Place the plug that was in the main power supply connector into the P601 connector of the UPM AC power cable (see Figure 25).

Figure 25: Connecting UPM AC Power Cable for The Advantage Series Units

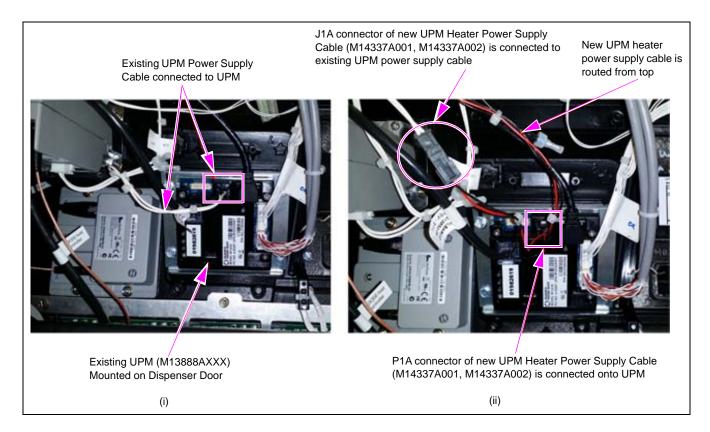


Connecting UPM Heater Power Cable to UPM

To connect the UPM heater power cable, proceed as follows:

- 1 Unplug the existing UPM power supply cable that is connected to the UPM. This cable comes in from the card reader and gets plugged into UPM [see Figure 26 (ii)].
- **2** Connect J1A connecter of the new UPM heater power cable to the unplugged end of the existing power supply cable disconnected in step 1.
- **3** Connect P1A connecter of the new UPM heater power supply cable to the UPM (see Figure 26 (i), Figure 22 on page 20, and Figure 34 on page 27).
- 4 Repeat steps 2 and 3 for the side B of the dispenser.

Figure 26: Installing UPM Heater Power Supply Kit



Appendix A: Wiring Diagrams

Figure 27, Figure 28, and Figure 29 on page 25 show the EPP and card reader heater power cable, EPP AC power cable, and AC power cable.

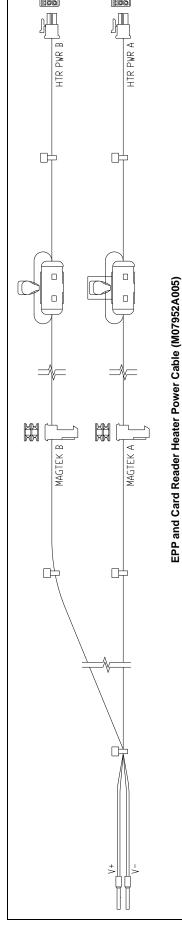


Figure 28: EPP AC Power Cable

(1100)

J.III

(joo)

Figure 27: EPP and Card Reader Heater Power Cable

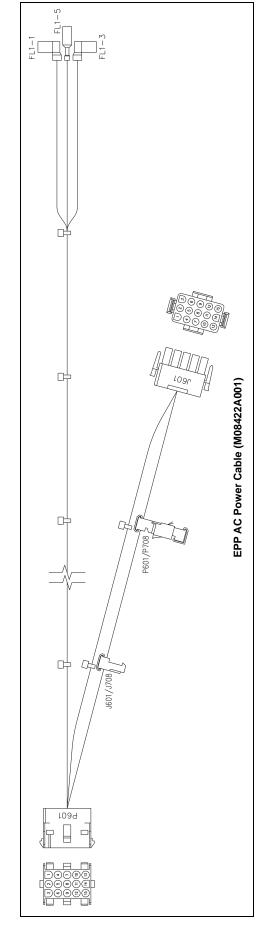


Figure 29: AC Power Cable

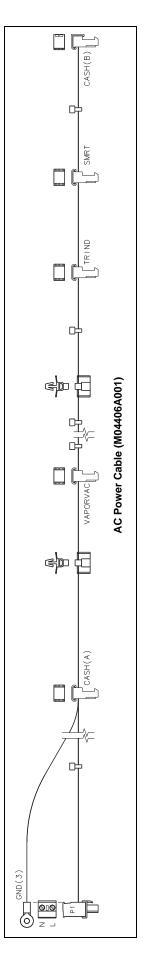


Figure 30 shows the connections for EPP heater options.

Figure 30: EPP Heater Option

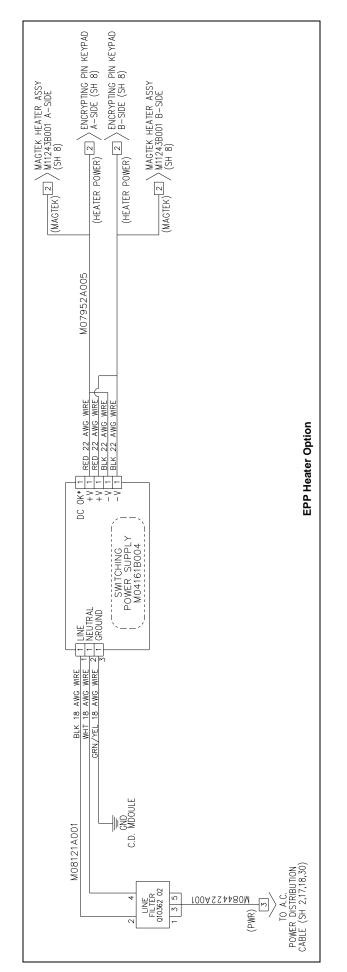
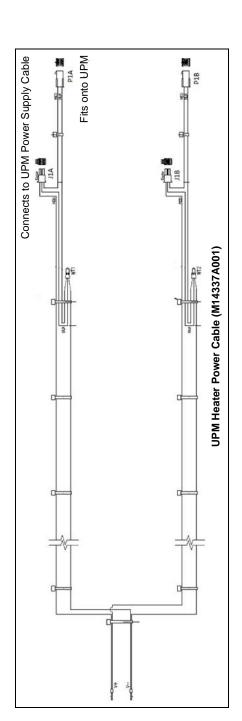


Figure 31, Figure 32, Figure 33 on page 27, and Figure 34 on page 27 show the UPM heater power cable, UPM AC power cable, and AC power cable.

Figure 31: UPM Heater Power Cable (M14337A001)





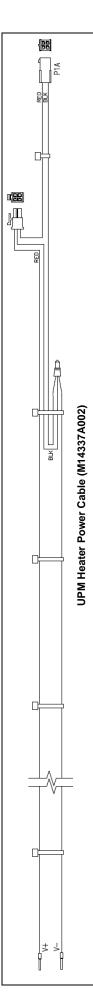
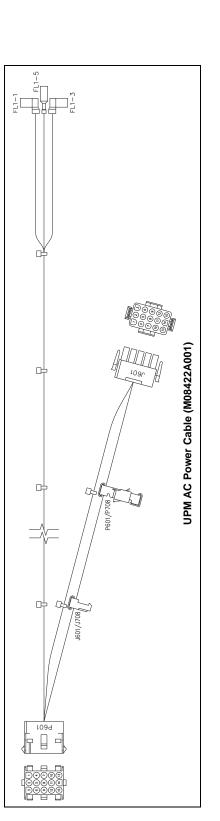


Figure 33: UPM AC Power Cable





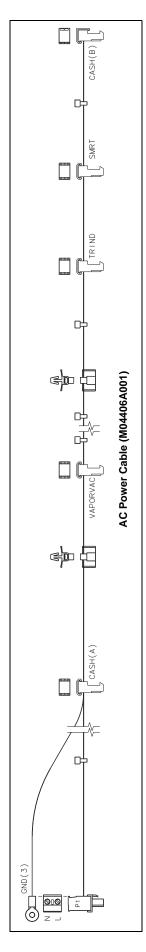
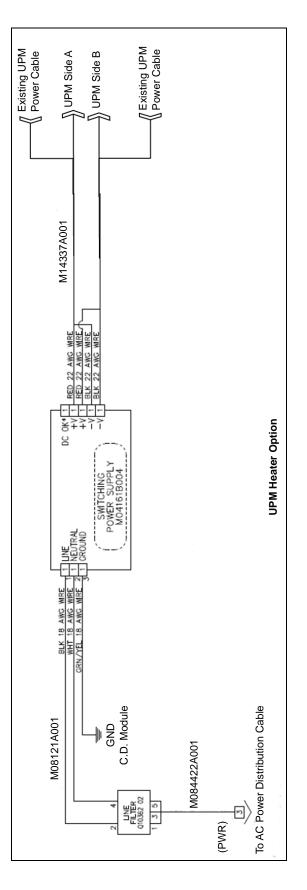


Figure 35 shows the connections for UPM heater options.

Figure 35: UPM Heater Option



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Appendix B: Kit Conversion

Converting EPP Heater Kit to UPM Heater Kit

To convert EPP Heater Kit to UPM Heater Kit, proceed as follows:

- 1 Collect the EPP Heater Kit (M08631K001) and verify that all items are available as per parts list, refer to "EPP Heater Kit" on page 1.
- Collect the EPP to UPM Heater Conversion Kit (M14778K002).
 Note: This kit will contain one quantity of the UPM Heater Power Cable (M14337A001, M14337A002).
- **3** Remove/discard the EPP Heater Power Cable (M07952A005) that is part of the EPP Power Supply Assembly (M07953A003).
- 4 Replace the EPP heater power cable with the UPM heater power cable.
- **5** The two MagTek Heater Cables (M09229A003) provided in the EPP Heater Kit will not be used.

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