Introduction

Purpose

This manual provides reference information for FlexPay™ IV/M7 simulators.

Table of Contents

Reference Documents

The following table lists the reference documents for specific information:

Required Information	Reference Document
Start-up	MDE-5221 FlexPay IV CRIND® Start-up Manual
Desktop Simulators Installation	• MDE-5220 FlexPay IV CRIND Retrofit Kit Installation Instructions for Encore® S E-CIM™ • MDE-5369 FlexPay IV (with Omnia) Programming and Service Manual
Side-by-Side Simulators Installation	MDE-5222 FlexPay IV CRIND Retrofit Kit Installation Instructions for Encore 300/500
Troubleshooting	MDE-5223 FlexPay IV CRIND Service/Troubleshooting Guide
M7 Software Tool	MDE-5227 M7 Maintenance Tool User Guide
Pump Simulation Programming	MDE-3860 Programming Quick Reference Guide

Abbreviations and Acronyms

Term	Description
CCP	Cloud Connecting Processor
CRIND	Card Reader in Dispenser
D-Box	Distribution Box
E-CIM	Enhanced Customer Interface Module
FCI	Forecourt Interface
GSoM	Gilbarco® Systems on Module
IP	Internet Protocol
NDA	Non-Disclosure Agreement
POS	Point of Sale
PPN	Product Part Number
SDK	Software Development Kit
SPOT	Secure PIN Pad for Outdoor Terminal
SSoM	Secure Systems on Module
SSWA	Sign Server Web App
TAC	Technical Assistance Center
UPM	Universal Payment Module

Overview

The FlexPay IV/M7 simulators use most of the same components and wiring harnesses as used in dispensers.

One major difference between simulators and dispensers is the internal keys that the secure components [Universal Payment Module (UPM) keypad and UX300 card reader] use to communicate within the system. Production dispensers use production keys for their internal communication. Simulators generally use test keys for their internal communication.
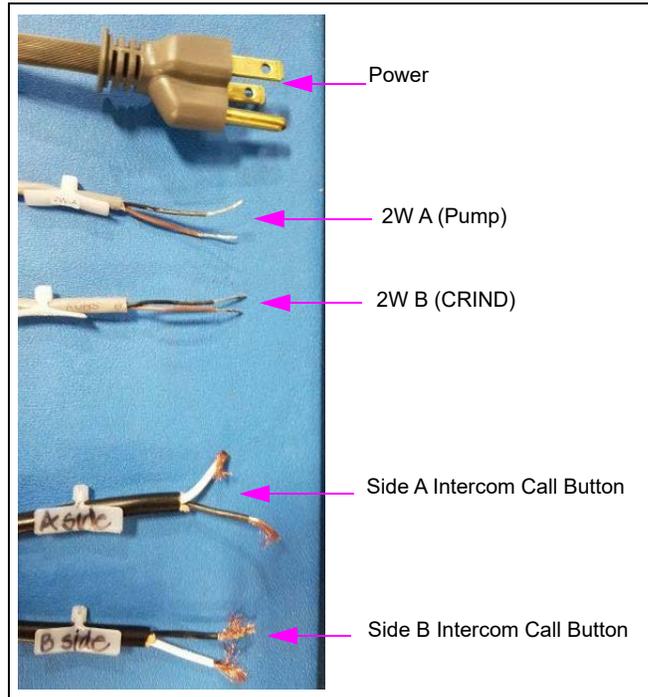
The following table lists the modules and the part numbers that are different from their production equivalents:

Modules	Part Number
Assembly, UPM Test	M14351AXXX
Card Reader, VeriFone® UX300	M15147B001
Assembly, AN UPM, Test	M15665AXXX

Setup Information for Side-by-Side Simulators

The simulator has five cords exiting the back of the enclosure as shown in Figure 1.

Figure 1: External Power and Wiring

Connect to power and to the existing two-wire framework depending on the environment.

	2W A (Pump Two-Wire)	2W B (CRIND Two-Wire)
Passport™	Not used	Connect to Passport Distribution Box (D-Box).
Other POS	Connect to the pump current loop source at the Point of Sale (POS). This may be a Gilbarco D-Box, Commander Forecourt Interface (FCI) box, or other type of forecourt controller.	Connect to the CRIND current loop source at the POS. This may be a Gilbarco D-Box, FDI box, or another type of forecourt controller.

Note: If the pump and CRIND are running different protocols, refer to the forecourt controller's manual for proper configuration.

The double-insulated intercom call button outputs are rarely used in a lab environment. When used, they connect to the intercom system call inputs.
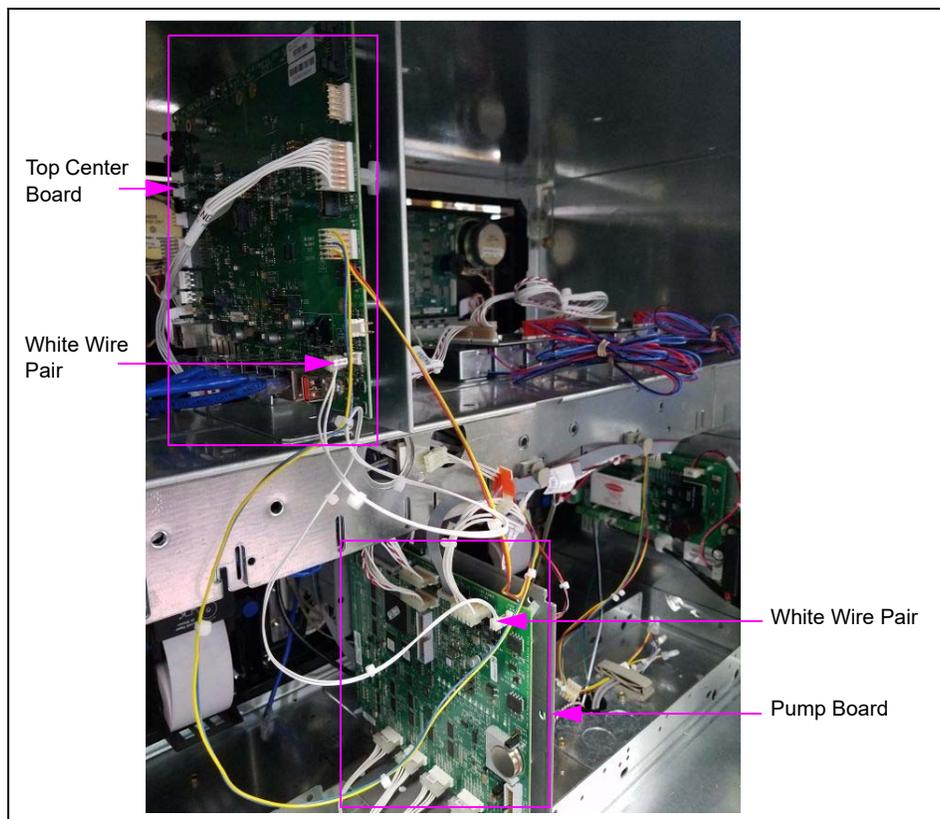
Internal Connections

The internal connections are shown in the Figure 2. The function of wire pairs are described in the following table:

	Blue/Yellow	Red/Yellow	White/White
Other POS	CRIND Data	Pump Data	Pump Data
Passport	CRIND Data	Not used	Pump Data

The blue/yellow wires carry CRIND data. For other POS (non-Passport), the red/yellow wires carry pump data and pass through the top center board. The data continues to pass through the white wire pair (can also be gray) as shown in Figure 2. For Passport, the CRIND communicates directly to the pump through the same white wire pair.

Figure 2: Internal Connections

For FlexPay IV, the top center board can be one of the following:
- Cloud Connecting Processor (CCP)
- CCP with Secure Systems on Module (SSoM) [for Remote Management and Internet Protocol (IP) routing]
- CCP with SSoM and Gilbarco Systems on Module [GSoMs (Applause)]
- Omnia board, which incorporates the function of CCP with SSoM and GSoMs in a single board

To configure the CRIND, refer to the "Reference Documents" section on page 1.

The simulator is shipped with the pump in standalone mode. Ensure that you enable the pump two-wire through the manager keypad (refer to *MDE-3860 Programming Quick Reference Guide*) and set the pump ID for your system. For Passport systems, set the Side A pump ID to 7 and the Side B pump ID to 11.

If adding a TCP connection to a simulator, refer to the installation manual for the related CRIND type.

Verification Codes

For verification codes, the normal Technical Assistance Center (TAC) number listed in the manuals referenced in the "Reference Documents" section on page 1 will not work, as they only have access to production codes. Instead, you will need to log in to the SPOT SDK website to get verification codes to perform simulator activations or to change the base IP addresses.

To get verification codes, proceed as follows:

1 Create a login for the website, https://www.gvrspotsdk.com/.
   Note: To create a login, first file a Non-Disclosure Agreement (NDA) with Gilbarco. You will need to select one person from your company to be the lab contact for this website. Once filed, send an e-mail using the contact link at the bottom of the web page, providing the name of your company, contact information, and the name of the person with whom you filed the NDA.

2 Once you have your SPOT SDK username and password set up, click the button at the top of the main page to log in to the website.

3 Once you are logged in, click the link near the bottom-left corner for Sign Server Web App (SSWA).

4 On the SSWA page, click **Services**, and select **Test PPN Activation** from the drop-down menu.

5 Click **M7** from the Platform drop-down menu, and then enter the Product Part Number (PPN) and Challenge Code in the appropriate fields. Confirm that the check digit matches with what is displayed on the simulator, and then click **Request**.
   Note: This page will time out after 10 minutes. To generate more verification codes, log out and then log in again if the website has timed out.

CRIND®, Encore®, and Gilbarco® are registered trademarks of Gilbarco Inc. E-CIM™, FlexPay™, and Passport™ are trademarks of Gilbarco Inc. VeriFone® is a registered trademark of VeriFone Inc.

GILBARCO
VEEDER-ROOT