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M00-20-7083 Compact Flash Data Recorder Procedure Guide

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1 Introduction

The Compact Flash Data Recorder replaces the journal printer on the FSC3000™, System2™ or K800™ fuel site controllers. The device records everything normally printed on hard copy to a Compact Flash Card. It creates a new file everyday and can be configured to overwrite the oldest files when full.

A 256 MB Compact Flash Card can hold 1 million transactions. In the event of a catastrophic failure of the Fuel Site Controller, the data can be recovered. Simply remove the Compact Flash Card for the Data Recorder and read it on any PC equipped with a Compact Flash Card Reader.

Figure 1-1 Compact Flash Data Recorder

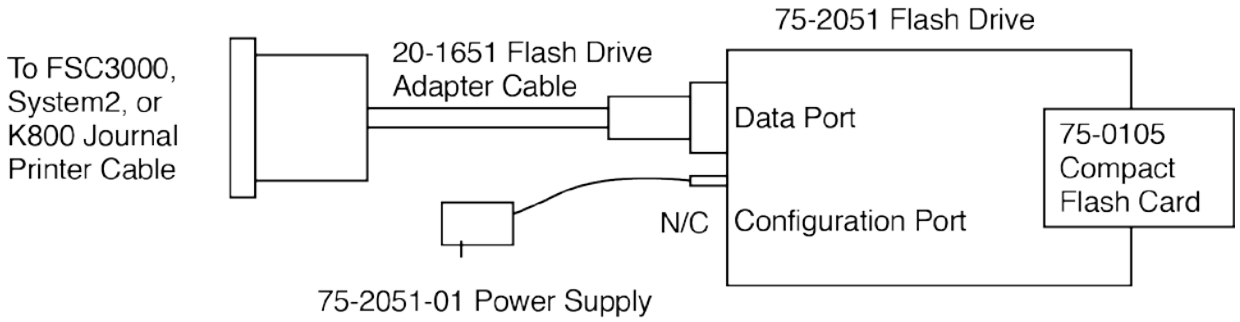

Figure 1-2 Data Recorder Connection Diagram

The Data Recorder will operate with the K800, System2 or FSC3000. It is pre-configured at the factory for 1200 baud for the System2 or FSC3000. It is also set up to create a new transaction log file on the compact flash card every 24 hours. Follow the steps under Device Setup to change the baud rate or any other settings. Once the device is configured as desired, proceed to "*Connecting the Data Recorder to the Fuel Control System*".

> To operate with the K800, the baud rate needs to be changed to 2400 baud.

2 Connecting the Data Recorder to the Fuel Control System

1. Insert an empty Compact Flash Memory Card.
2. Connect the 9- to 25-pin adapter cable to the DATA port on the Data Recorder and to the K800, System2 or FSC3000 Fuel Control System printer cable.

   Table 2-1 Fuel Control System Cables

Cable	Part Number
K800	20-1512
System2	20-1444-R5
FSC3000	20-1517

3. Plug the power supply into a standard outlet and connect it to the Data Recorder.
4. Press the STOP/RECORD button until the “R” LED turns on.

In the event of a power failure, the unit will automatically resume in the record mode.

3 Retrieving Stored Transactions from the Data Recorder

1. Press the STOP/RECORD button until the “R” LED turns off.
2. Press the black eject button next to the Compact Flash memory card and remove the card.
3. Insert an empty Compact Flash Memory Card and press STOP/RECORD button until the “R” L.E.D. comes on.
4. Insert the Compact Flash Memory Card with transaction data into a PC equipped with a Compact Flash Card Reader. The data is stored in daily files located in the \data subdirectory starting with SDR-0000. Open the files using WordPad, Word or Excel.

Depending on the program used to open the file, you may see control characters before each transaction. These characters are used to format the data for the printer and should be ignored.

Never remove the power connection from the Data Recorder while the FSC is still connected and powered up. There is about a 15 second delay after power is removed from the Data Recorder before it signals the FSC that it is “Offline” and not able to store data. If the FSC sends data during this period, it will be lost.

4 Device Setup

1. Plug a 9-pin serial cable (not supplied by OPW) from the CONFIGURATION port on the Compact Flash Journal Recorder to the serial port on your PC.
2. Configure Hyper Terminal for 115,200 baud, 8 data bits, no parity 1 stop bit and no flow control.

> Set to 9600 baud for Compact Flash Data Recorders shipped prior to April 1, 2010.

3. Press “Enter”. A blue screen with configuration settings will appear, and the cursor will be scrolling.
4. Configure the parameters as desired:

Table 4-1 Configuration Parameters

Menu Item	Sub-Menu Item	Description
1		Set the time
2		Set the date
3		Set NASI mode to ON
4		Set messages to OFF
5		Skip
6	1	DATA/SDR-0000.DAT (default)
	2	Overwrite to OFF
	3	Append mode on
	4	Scheduled File Close 86,400 seconds
	5	Time stamp OFF
	6	Power up in Pass-through OFF
	7	Low power mode OFF
	8	Flushing OFF
	9	Skip
7		Skip
8		Skip
9	B	1200 baud for System2/2400 baud for K800
	D	C (7E1)
	H	1 (RTS/CTS ON)

5. Disconnect the serial cable.

> Compact Flash Data Recorders shipped prior to April 1, 2010 were modified to be able to support 1200 baud. On these units the actually baud rate is ¼ the programmed baud rate. To configure 1200 baud, program 4800 baud. To configure 2400 baud, program 9600 baud.