



# J1850 Mini Flight Recorder Version 2.0



## Overview

The J1850 Mini Flight Recorder (MFR) provides a window to view and log J1850 bus traffic. It is small, lightweight, and easy to use. The MFR kit consists of a Palm Pilot IIIx or IIIxe Personal Digital Assistant (PDA), a J1850 InterFace (JIF) module, interface cables, a vehicle mount, application software, and a soft carrying case.

## Architecture

The JIF module is a microprocessor-based adapter with cable connections to a Palm mount and J1962 cable for connection to the vehicle bus. LEDs indicate communications status.



Data entry, viewing, and storage are done with a Palm Pilot as the user interface and data storage medium.

Commands are executed by simply tapping icons on the Palm Pilot's touch screen.

Data entry fields may be filled by tapping the Palm's graphical keyboard or writing with a stylus on the touch screen.

The built-in "Graffiti" handwriting analysis function recognizes and converts the user's handwriting strokes to commands.

The memory in the Palm provides approximately two hours of recording time. The Palm may be unplugged and its data downloaded to any PC through its standard cradle interface.

## New Features

- Specific Send Message IDs can now be assigned names for easy reference .
- A logging button has been added. It not only toggles logging on and off, but also displays the current available memory and the number of 4K blocks completely written to the log.
- Configuration profiles can now be beamed to other MFR PDAs running the J1850 Tool Version 2.0 software.
- A Lock Out User function is now available. When this setting selected, users cannot alter the MFR's configurations or leave the J1850 Tool application without entering a password. This allows the MFR to be used for customer ride-along tests for intermittent problem diagnostics.
- Synchronization of data logs to a PC is now twice as fast as with the previous version of the MFR.
- Data files and configurations saved prior to the last HotSync may now be quickly restored to the PDA.
- With the new Excel macro, large files are now spread across multiple worksheets in a single workbook.

## Functions

- Bus Monitor:** Provides a real time view of bus traffic.
- ID Monitor:** Monitors selected message IDs.
- ID Monitor w/Time:** Monitors selected message IDs, including the time in between messages.
- Send Message:** Allows definition and transmission of J1850 messages once or repetitively.
- Set IFR:** Provides an In Frame Response (IFR) to a specific message ID.
- Logging Setup:** Sets up Logging Options.
- ID Filter:** Allows the setting of filters for specific messages. Provides trigger, enable, and disable functions.
- ID Overview:** Provides a view of all active message IDs.
- Configurations:** Allows session profiles to be saved and reloaded.

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