



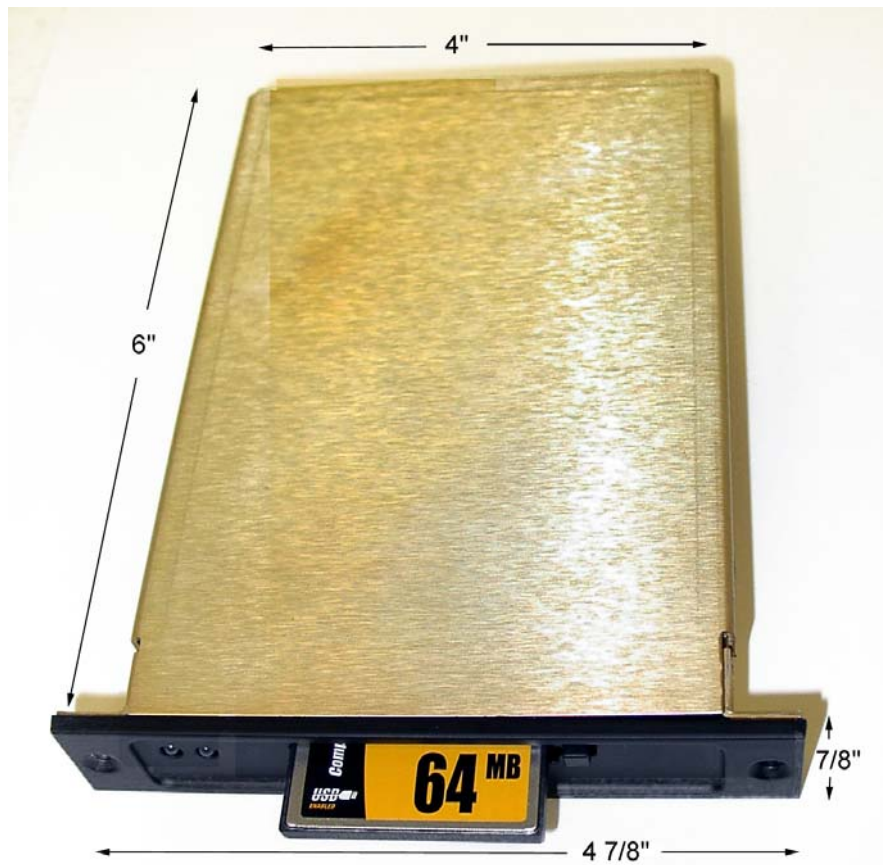
*blue mountain avionics*

# Engineering Note

Product	EFIS/One	
Release	2.15 or Higher	
Subject	Compact Flash Reader	
Revised	02/17/04	Tim Shubert

## Overview

Blue Mountain Avionics, Inc. now offers a panel mounted Compact Flash Card reader to replace the CD or DVD ROM drive. The Compact Flash reader uses solid-state CF technology and can be used to easily transfer flight log data from your EFIS/One to a home computer or to install new updates from BMA. Flight Performance and Analysis Software is also now available. Contact BMA or visit our Web site for further details.



Dimensions are approximate.

## Installation

The CF Reader is compatible with your existing cables (2) provided for your CD or DVD ROM Drive. Your CF Reader comes with a Compact Flash Card in the Reader. LEAVE IN THE READER until update is complete and you power your system OFF.

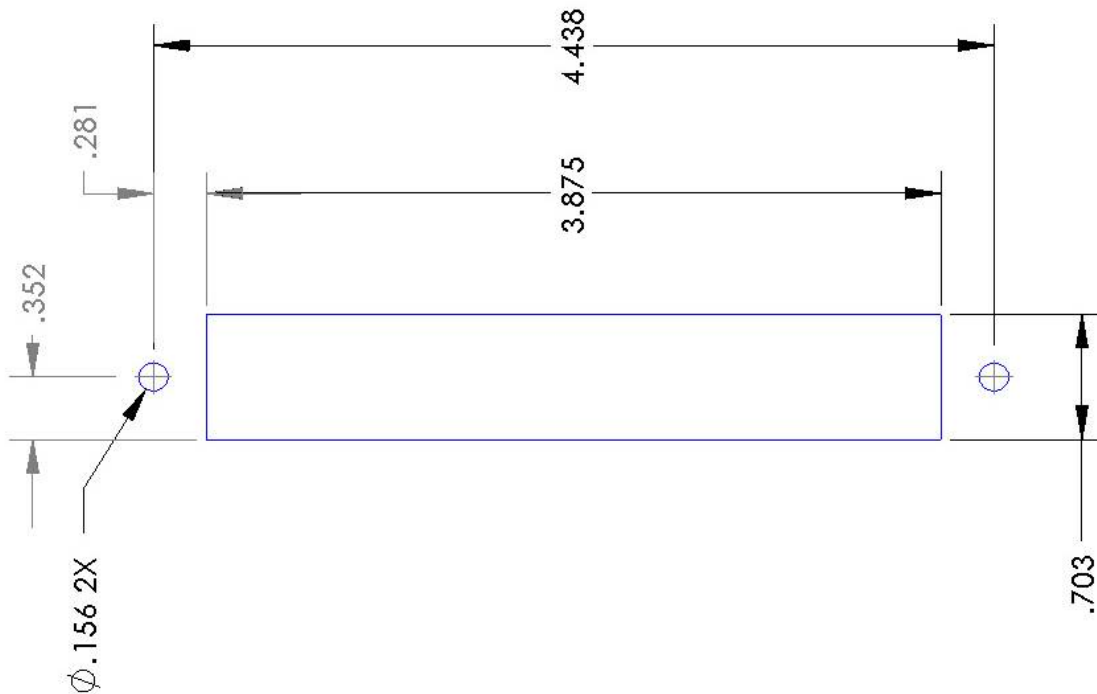
To install the CF Reader, follow these steps:

1. Disconnect the existing CD or DVD drive from your system.
2. Mount the new CF Reader within 3 feet of the EFIS/One CPU. A panel cut out template is provided. Your panel is sandwiched between the black bezel and CF enclosure.
3. Plug the power and CD/DVD ribbon cable (originally provided with your CD/DVD ROM Drive) into the back of the CF Reader.
4. Power Up your system and follow the instructions on your screen. The latest version of our System Software will be automatically installed which will make the CF Reader active.
5. Once complete, power your system OFF.

## Important Restrictions

1. The CF Reader must be within 3 Feet of the processor.
2. The CF Reader must remain connected to the system at all times.
3. The CF 64MB Flash Card must be ejected with power OFF before booting to your EFIS/One.
4. Never insert or remove the flash card with power turned ON.

## Panel Cut Out



## Troubleshooting

### **EFIS pauses for a long time looking for the DVD drive that I just took out.**

This means that the EFIS is not set to boot from the external drive. It's a simple BIOS change. Go to page 4 and follow the instructions for **Fix #1: BIOS Boot Change**. That'll fix it.

### **EFIS Locks up, does not go past splash screen**

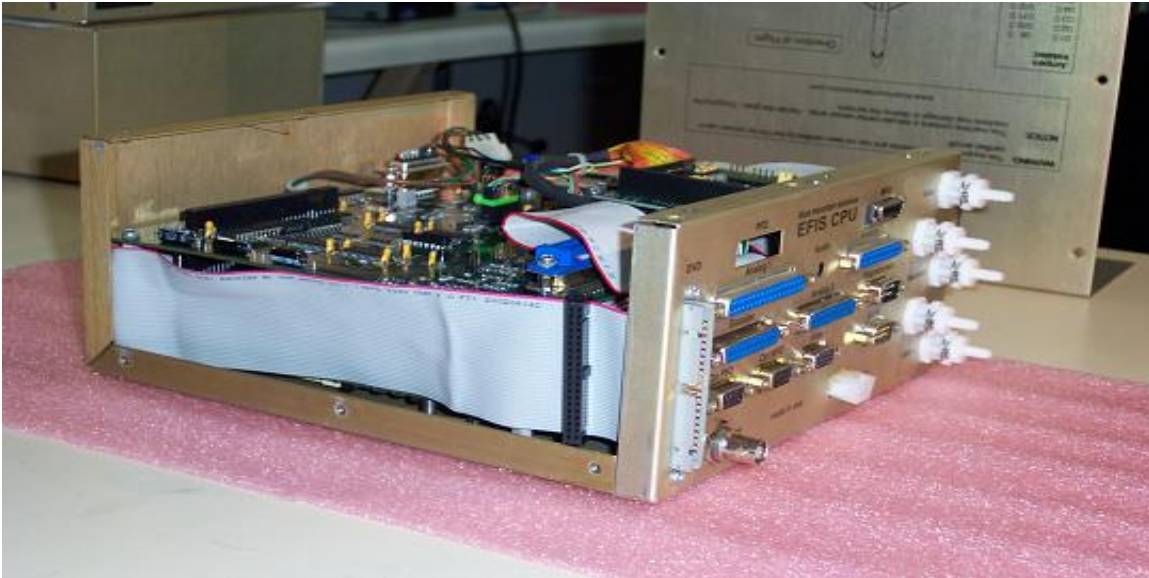
This almost certainly means that you are upgrading from release 2.14 or earlier. The External Compact FLASH will install the latest software for you, and a jumper change was required to upgrade from 2.14 or earlier. Go to page 5 and follow the instructions for **Fix #2: GPS Jumper Change**. That'll fix it.

## Fix #1: BIOS Boot Change

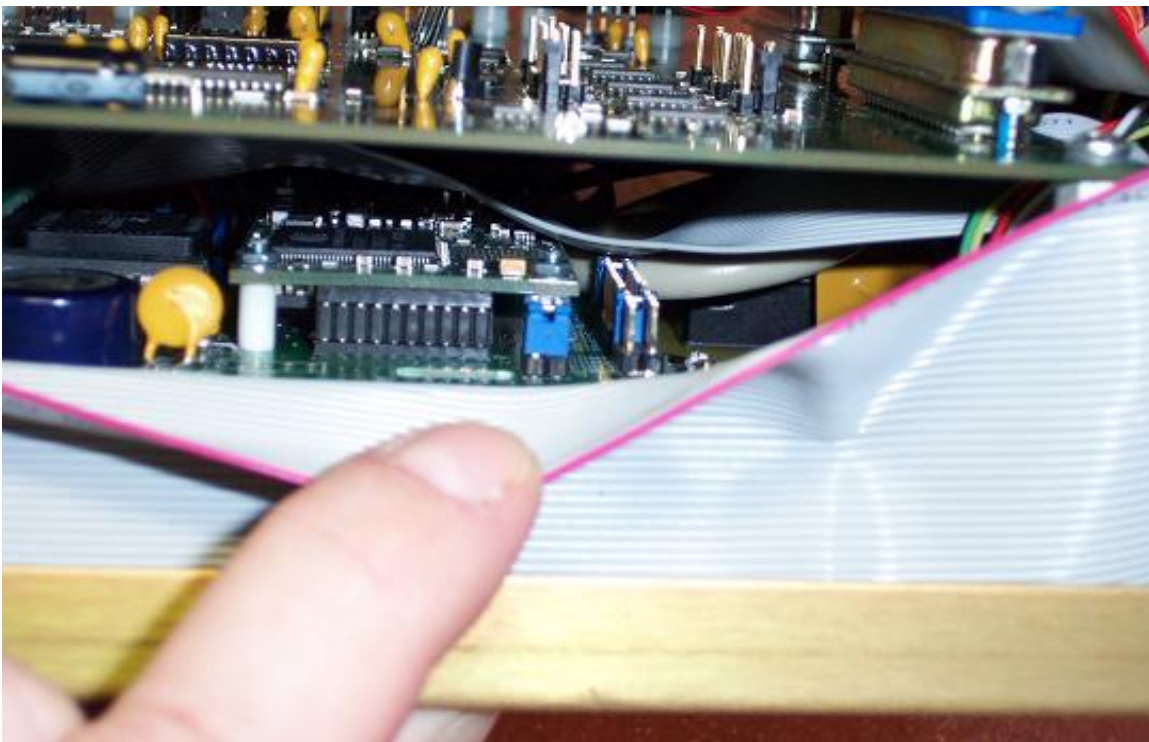
- Step 1. Plug in your programming keyboard and power up.
- Step 2. AS soon as you see activity on the screen, start tapping the DEL key once a second. This will bring up the CMOS Setup Utility.
- Step 3: Use the down arrow key to select Advanced BIOS Features, and touch <enter> to bring up the Advanced BIOS Features page.
- Step 4. Use the down arrow key to move down to First Boot Device, and touch <enter> to bring up a page of choices. Select **HDD-0** and touch <enter>.
- Step 5. Use the down arrow key to move down to Second Boot Device, and touch <enter> to bring up a page of choices. Scroll down to the bottom and select **Disabled** (it may be off the screen at the bottom) and touch <enter>.
- Step 6. Recheck your work and verify that First Boot Device is **HDD-0** and Second Boot Device is **Disabled**.
- Touch F10 to get out of the CMOS Setup Utility and save your changes. A box will pop up asking you if you want to save, type **Y** and touch <enter>.
- Your FLASH reader is now the default device so the upgrade will now work properly. **Go back to the top of this document and run through the upgrade procedure on Page 2 from start to finish.**

## Fix #2: GPS Jumper Change – Only Required for Release 2.14 and below

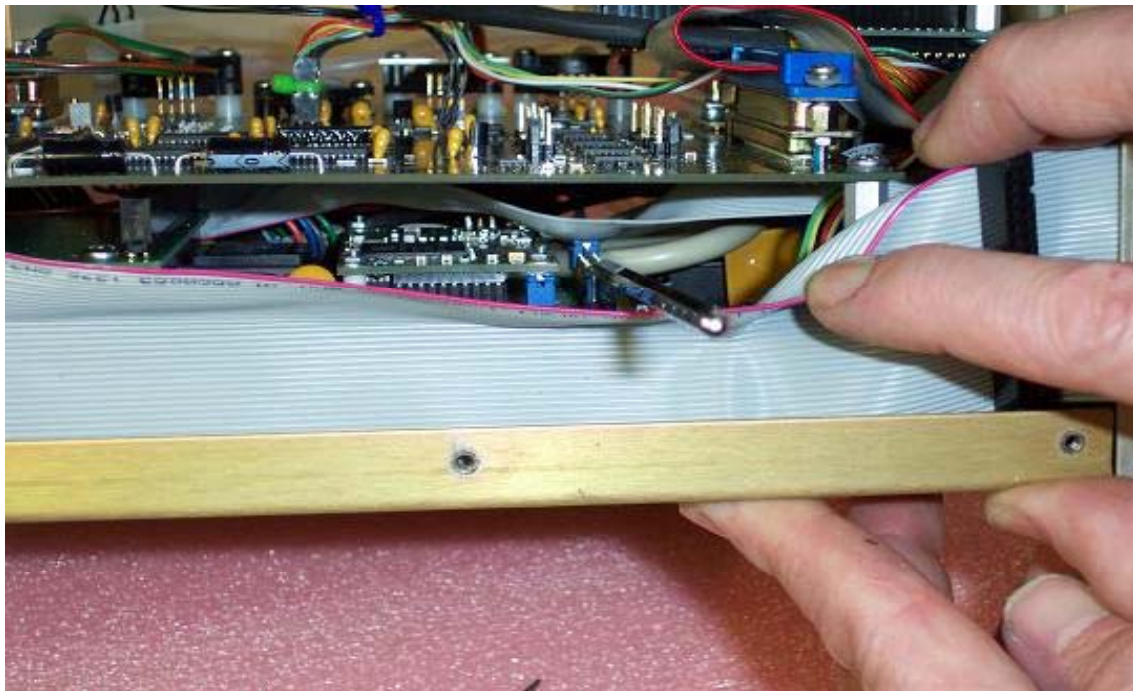
- Step 1. Place your processor on a flat surface with the connectors facing the right. Remove the top cover of your unit (6 #1 Phillips screws on top, 3 on each side). Turn the unit so the ribbon cable is facing you.

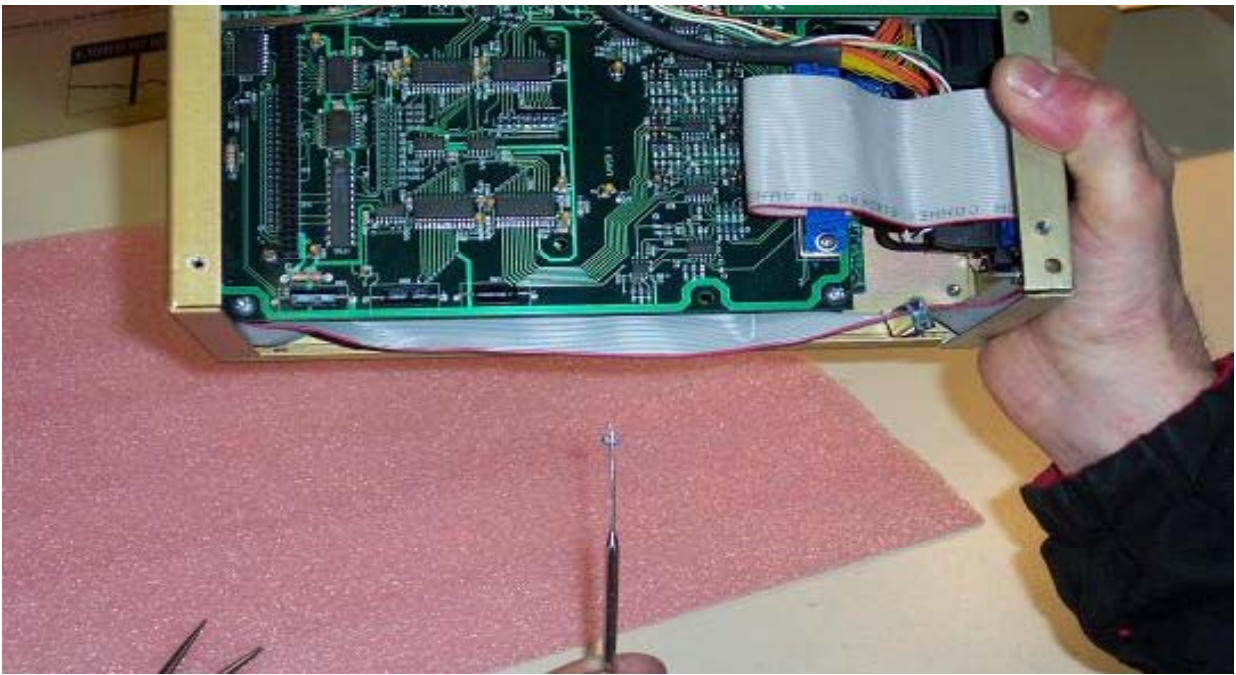


- Step 2. Gently bend the cable down exposing the GPS card and jumpers. Locate the 2 rows of pins shown in the photo. Notice that there are two jumpers, one close to you 4<sup>th</sup> pin from the front, and another 9 pins farther back near the end. No need to count, it's the only other one back there.



- Step 3. Using the straight dental pick, a straightened paper clip or a pair of long/thin needle nose pliers, remove the jumper from the 4<sup>th</sup> row of pins and insert it on the 2<sup>nd</sup> row of pins, i.e. move it towards you two spaces. The next jumper is farther back and will be permanently removed. Using your tool of choice, slide the end under the jumper and lift it up and off of the pins. Discard the jumper. Refer to the following photos as a reference.





Hardware changes are complete. Put the cover back on the processor and replace the screws. Do not over tighten the screws, just snug them down.