SERVICE BULLETIN

Service Bulletin #: SB 10

Title: Engine Data Purge Utility Update

1. Planning Information

1.1 Effectivity/Compatibility

This Service Bulletin applies to all Avidyne EX5000 and EX5000C units with EMax engine monitoring functions.

1.2 Concurrent Requirements

None

1.3 Reason

Under certain conditions, older engine data log files may not be correctly purged from the EX5000. This is especially likely if older log files recorded during the previous year are present in the system at the same time as newer log files from the current year.

The result is that the EX5000 may have insufficient remaining storage space to record new engine data.

1.4 Description

A future release of EX5000 software will purge older data log files correctly. In the interim, this Service Bulletin describes the use of an Engine Data Purge Utility that automatically removes all stored engine log files. Running this utility once will restore proper operation of the engine log purging scheme.

The utility is available for downloading from the Avidyne web site at no charge. If no internet connection is available, please contact Avidyne for alternate means of distribution. Once the utility is copied onto a Zip disk, the actual purge operation may be performed either on the bench or in the aircraft.

1.5 Compliance

This Service Bulletin is voluntary for all EX5000 units.

1.6 Approval

The accomplishment instructions contained in Section 3 are FAA approved. No other portion of this service bulletin is FAA approved.

1.7 Resources Required

Applying the Engine Data Purge Utility should take one person less than 5 minutes.

1.8 Weight and Balance

Not Applicable.

1.9 Electrical Load Data

No change.

1.10 Software Accomplishment

No changes are made to the EX5000 operating software. The Engine Data Purge Utility affects only stored data.

1.11 Reference

None.

1.12 Publications affected

None.

2. Material – Cost and Availability

Cost: No charge.

Availability: An installation program that installs the Engine Data Purge Utility onto a local
Zip drive may be run from the www.avidyne.com web site. If no internet
connection is available, contact Avidyne at 1-888-AVIDYNE for alternative
means of distribution.

3. Accomplishment Instructions

3.1 Required Materials

1. _____ Avidyne EX5000-series MFD, part no 700-00004-XXX-() , with 530-00117-000 software (any rev 00 through 02) as displayed on splash screen after initial power-up.

2. _____ 1 Data loader (Zip) drive

3. _____ Configuration Utility Disk, P/N 510-00114-000, **OR**

4. _____ Blank Zip Disk, to be loaded with the update utility using procedures described in section 3.2.

5. _____ 28 Volt Power Supply with developer cable P/N 100-000106-000 (for bench operation) **OR** access to the unit installed in an aircraft.
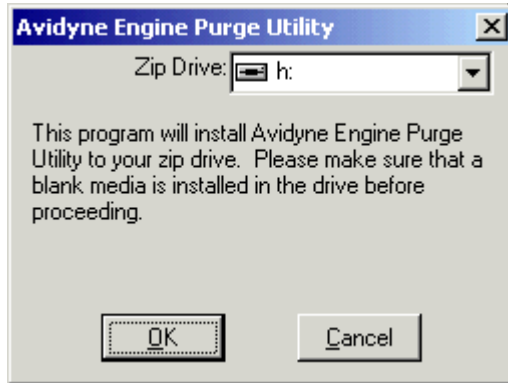
3.2 Downloading from the Avidyne website

If the Configuration Utility Disk, P/N 510-00114-000, has been previously obtained from Avidyne, **OR** if the Engine Data Purge Utility has been previously installed onto a blank Zip disk from the Avidyne web site, then skip this step and proceed to section 4.
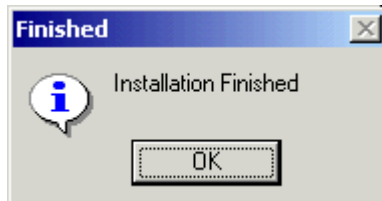
An installation program may be run directly from the Avidyne web site which will attempt to locate a Zip drive on the local computer, and which will then copy the Engine Data Purge Utility to that drive.

To obtain the Engine Data Purge Utility from the Avidyne web site:

1. _____ Insert a blank Zip disk into the data loader.

2. _____ Connect the data loader to your PC.

3. _____ Open a web browser, browse to www.avidyne.com/emax_sb10

4. _____ Select the link to launch the <u>Engine Data Purge Utility</u>

5. _____ You will be given the option to 'Open', 'Run from current location', or 'Save this program to disk'. Select 'Open' or 'Run' to run the installer directly. NOTE: Depending on your browser's security settings, you may receive a Security Warning stating that the program's Authenticode signature was not found. This is normal, and can be dismissed. Click 'Yes' to continue the installation.

6. _____ After downloading, the installer will present an "initializing" message, then the following:

7. _____ Verify that the installer has chosen the correct drive, then press OK. When the installation is complete, it will display the following message:

4. _____ The disk is now ready for use. You may wish to label it with the following:

Avidyne Engine Data Purge Utility, Part# 510-00114-000 Rev 00

Proceed to section 4.

3.3 Troubleshooting

If an error occurs, the installer will display an error message with an indication of the cause. The following are examples of possible errors:

3.3.1 Disk is Write-Protected

The installer will be unable to proceed if the disk is "write-protected". A disk can be write-protected from the PC or by physically setting the write-protect tab.
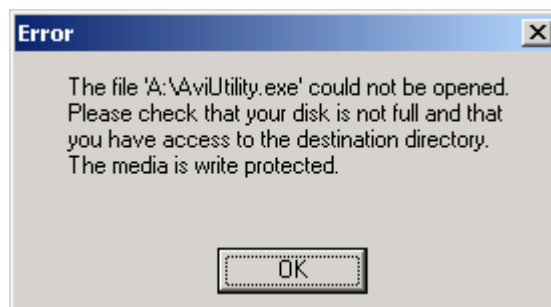

Figure 1: Write Protected Disk

3.3.2 Disk is Full

If the disk does not have sufficient free space, the installer will be unable to proceed. It is recommended that you use a blank disk.
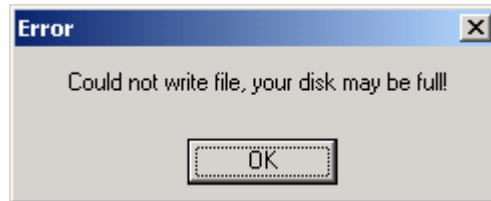

Figure 2: Disk Full

3.3.3 File Corruption

File corruption may occur in the transfer of the installer from the internet, or the transfer from the installer to the Zip disk. The installer will verify the file from the Zip disk and, if any error is detected, will display the following message:
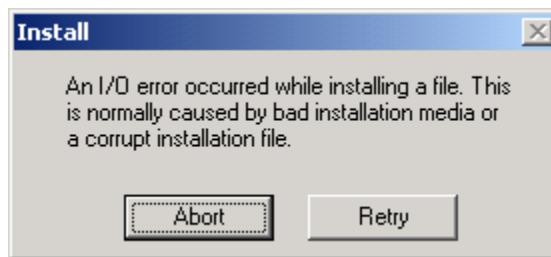

Figure 3: File Corruption Message

If this error occurs, retry the installation and, if possible, try a new Zip disk.

3.3.4 Other Errors

The following message may appear if, for example, a CD-ROM drive is selected in step **Error! Reference source not found.** above.
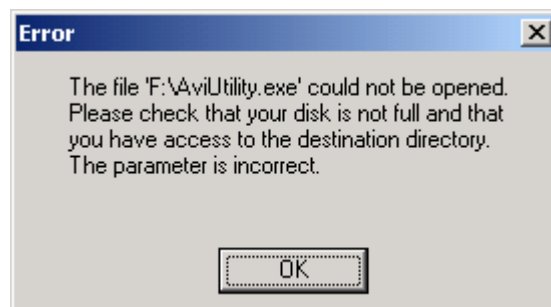

Figure 4: General Error

Make sure that the Zip drive is connected and accessible (e.g. by attempting to browse to it from "My Computer").

4. *Running the Engine Data Purge* tility

Once the Utility Zip disk has been created, you can use the following procedure to "purge" engine data files from the EX5000.

> **Note 1: This procedure is NOT to be performed in flight.**

> **Note 2: The utility will delete ALL engine log data files. If you have not already done so, you should extract all files first using a blank disk. See the Engine Instrument / Data Log section of the EX5000 Pilot's Guide.**

1. _____ Start the Avidyne MFD and wait for the splash screen with the blue background. Check the Avidyne Part Number and revision (second line of smaller text).

2. _____ Verify the part number is 530-00117-000, and revision level is 00, 01 or 02.

3. _____ Remove power from the MFD.

4. _____ Insert the **Utility Zip Disk**, PN 510-00114-000 into data loader. This disk may be obtained from Avidyne, or created using the steps presented in section 3.2 of this document.

5. _____ Connect the data loader to data loader port of the Avidyne MFD.

6. _____ Power up the MFD.

7. _____ When "Engine Log Purge" is viewed on the screen, press **"Proceed".**

8. _____ At the end of the operation, a message **"Completed with no errors"** should be displayed. If this message is not displayed, the utility has failed. While the MFD is still OK for flight, the engine log files may not have been purged, and further engine logging may be inhibited.

9. _____ Press any bezel key. The disk will be ejected and the MFD will continue to load. Allow the MFD to complete its startup before removing power.