SERVICE BULLETIN

Service Bulletin #: *601-00004-030*

Title: EX5000C Software Upgrade to 530-00162-000

1. Planning Information

1.1 Distribution/Eligibility

This Service Bulletin may be distributed only to those groups indicated below with a check mark:

Group	Distribution?
Avidyne internal	√
Avidyne-authorized Service Facility	√
Avidyne Web Post	
Avidyne-authorized Installer	
Avidyne OEM customers	√
End-use customers, owners and operators	

The Accomplishment Instructions contained in Section 3 may only be performed by appropriately authorized Avidyne Service or Manufacturing Facilities or Avidyne authorized OEM customers.

1.2 Effectivity/Compatibility

These instructions apply to production MFD's part number 700-00004-001, -002, -004, -005, and -006, all revisions with software part number 530-00112-000, 530-00117-000, or 530-00148-000. These instructions also apply to the above listed production MFD's part numbers with 530-00162-000 Rev 01, or earlier

1.3 Concurrent Requirements

None

1.4 Reason

The procedure in this service bulletin will modify the software in the MFD to provide all existing functionality and the addition of these optional functions: Broadcast datalink, TAWS function and CMax (Jeppesen charts).

1.5 Description

This service bulletin provides a procedure to updates the MFD software to 530-00162-000 Rev 02. This service bulletin does not activate the optional functions of Broadcast datalink, CMax, or TAWS. See other Service Bulletins to activate these functions

Function	Service Bulletin
CMax	601-00004-035
Broadcast Datalink	601-00004-036
TAWS	601-00004-037

Service Bulletin 601-00004-0034 may also be used by OEM customers on the factory floor for activating any combination of Jeppesen chart display, broadcast weather or TAWS.

1.6 Compliance

This Service Bulletin is optional.

1.7 Approval

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

1.8 Time Required

Complying with this Service Bulletin should take one person less than 1 hour.

1.9 Weight and Balance

Not Applicable.

1.10 Electrical Load Data

Not Applicable.

1.11 Software Accomplishment

This service bulletin describes the installation of software, which has been developed with a DO-178 level D compliant process.

1.12 Reference

N/A

1.13 Publications affected

The Cirrus EX5000C MFD Pilot's Guide part number 600-00108-000 Rev 03 or later contains setup and operating information for all functions included in software part number 530-00162-000. This Pilot's Guide (part number 600-00108-000 Rev 03 or later) must be delivered to the operator. The EX5000 MFD Installation Manual part number 600-00073 Rev 15 or later contains information on installation, setup and checkout of all functions included in software part number 530-00162-000.

2. Material – Cost and Availability

Cost: Established by Cirrus Design.

Availability: The documents and required equipment to perform this Service Bulletin are available through Cirrus Design.

3. Accomplishment Instructions

3.1 Required Materials

a. _____ Replacement Flash, P/N 053-00006-003 Rev 00 with software P/N 530-00162-000 Rev 02.

3.2 Accomplishment Procedure

1. _____ Before upgrading the MFD software apply power to the MFD as installed in the aircraft. Access Maintenance Mode main page by simultaneously pressing the left top and left third buttons for 5 seconds. (See the EX5000 installation manual for detailed procedure.) Access each Maintenance Mode sub-page and record setup values. These values will be reset in the new software once installed. Record settings accurately to ensure a trouble free setup of the new software and return of the aircraft to service.

Note: Some of the sub-pages may not be available on all software versions. Some of the sensors may be set to Not Installed.

MFD Maintenance Mode Settings

Sub-Page	Setting
GPS Setup	---------------------------
Receiver A	
Port	

Speed	
Receiver B	
Port	
Speed	
Traffic Setup	-------------------------
Sensor	
Port	
TAS Type	
External Controller	
Lightning Setup	-------------------------
Sensor	
Operation Mode	
Port	
Stab Type	
Enable Lightning Ahead Warning	
Antenna on Top?	
Engine Setup (Optional)	-------------------------
Sensor Type	
Port	
Aircraft Model	
Electrical	
TAWS Setup (Optional)	-------------------------
Sensor	
ARINC 429 Port	
ARINC 453 Port	
Map Heading	-------------------------
Map Heading	
Aircraft Setup	-------------------------
Checklists	
Brightest dimming voltage	
Darkest dimming voltage	

2. _____ Remove power from the MFD.

3. _____ Loosen the 4 Dzus fasteners that hold the unit to the instrument panel.

4. _____ Pull the unit out approximately 8" and disconnect the cable.

5. _____ With the unit on the bench, remove the Flash cover by unscrewing the 6 nuts retaining the metal cover on the right-hand side of the unit and lifting the cover off the posts.

6. _____Remove the existing Flash card and replace it with Flash, P/N 053-00006-003 Rev 00 with software P/N 530-00162-000 Rev 02.

7. _____Re-secure the Flash cover and replace the 6 nuts.

8. _____Re-install the unit in the aircraft.

4. Update Validation

9. _____ Apply avionics power and allow the MFD to fully initialize.

10. _____Verify that the software version number is 530-00162-000 Rev 02. If the software version is incorrect, verify that you have installed the replacement flash. If you have installed the replacement flash, there is a problem with the flash. Contact Cirrus Design for a new flash.

11. _____ Restore the setup values previously recorded.

12. _____Using the MFD installation manual (part number 600-00073 Rev 15 or later) setup and checkout procedures, verify proper operation of MFD with respect to other interfaced aircraft systems.

13. _____Perform procedures for activation of optional functions per the applicable service bulletins.

14. _____Deliver the Pilots Guide (part number 600-00108-000 Rev 03 or later) to the aircraft operator.