Service Bulletin #: SB05

Title: Correction of Azimuth Sychronization.

1. Planning Information

A. Effectivity/Compatibility

This Service Bulletin applies to all Avidyne FlightMax 800 units, with the following software part number:

Part Number	Rev.	Software Level
530-00113-000	02	Release 6.0.2

B. Concurrent Requirements

None

C. Reason

A change in the software has been made to correct the azimuth sychronization of the FlightMax 800 when interfaced with a Collins WXT 250A or WXT 250B receiver transmitter.

D. Description

This modification consists of:

1) Removing the flash drive and replacing it with the upgraded flash, while the FlightMax 800 is on the bench.

E. Compliance

This service bulletin is mandatory for all FlightMax 800 units.

F. Approval

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

G. Manpower

Removal and replacement of the flash should take approximately 60 minutes .

H. Weight and Balance

No change.

I. Electrical Load Data

Not changed.

J. Software Accomplishment

See paragraph 1C Reasons for change.

K. Reference

Installation manual p/n 600-00067 Rev 08

L. Publications Affected

None

2. Material - Cost and Availability

Cost: Contact Avidyne at 1-888-AVIDYNE.

Availability: Contact Avidyne at 1-888-AVIDYNE.

This modification must be performed by an authorized FAA repair station.

3. Accomplishment Instructions

A. Removal of the FlightMax 800 from the aircraft.

1. Using a 3/32" Allen wrench remove the FlightMax 800 from the radio rack.

B. FlightMax 800 Disassembly

This procedure should be preformed on the bench. Ensure NO power is applied to the unit.

1. Remove the 17 screws holding the top cover to the FSD.

Note: Do not remove the 7 screws in the center of the cover, that hold the memory device

2. Carefully slide the cover away from the FSD box (the ribbon cable is still connected).

3. Disconnect the ribbon cable from the memory device.

C. Flash Replacement

1. Remove the four screws holding the flash drive to the bracket.

2. Remove the flash drive and replace with the flash drive containing software revision 530-00113-000 Rev 03.

3. Orient the replacement flash drive with the pins facing aft and mount it to the bracket with the four screws. Be sure to use the lock washers when re-installing the four screws.

D. Assembly

1. Attach the ribbon cable to the flash drive. The ribbon cable is keyed, so it will only slide in one way. In addition, a black line is on the cable to desinate pin 1. This line should be on the right side when looking aft.

2. Carefully place the cover on the FlightMax 800, ensuring the cable remains firmly attahced to the flash drive.

3. Secure the cover with the 17 screws.

E. Verification.

There are two approved methods of Verification.

In Aircraft Verification

1. Re-install the unit in the aircraft and apply power to the unit.

Perform the System Setup and Checkout procedures in the Installation manual (p/n 600-00067, Rev 08),

2. Return the original flash to Avidyne.

Bench Verification

1. Connect the Avidyne FlightMax 800 bench test harness to Collins Digital Radar Test Fixture.

2. Connect the WXR-250( ) R/T and ANT-318 ( ) Antenna to the same test fixture.

3. Connect opposite end of the test harness to the FlightMax 800 to be tested.

4. Power up the Collins Test Fixture with both A.C. and D.C. voltages.

5. When ready select "Test" on FlightMax 800 and verify that the sweep synchronization matches the movement of the ANT-318 ( ).

6. Select "ON" on the FlightMax 800 and again verify the sweep synchronization matches the movement of the ANT-318( ).

7. Once satisfied that this sweep synchronization is correct, turn off the FlightMax 800 and all power to the Collins Test Fixture.

8. Disconnect test harness form the FlightMax 800.

9. Return the FlightMax 800 to Inventory.

10. Return the original flash to Avidyne.

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8. Disconnect test harness form the FlightMax 800.

9. Return the FlightMax 800 to Inventory.

10. Return the original flash to Avidyne.