



Mandatory Service Bulletin

Service Bulletin Number: SB2018-01 Revision ()

Effective Date: November 21, 2018

Addressing the Potential for Inflight Reset of FIS-B equipped EFD1000/500 Systems

1. DESCRIPTION

Recently some Aspen Operators with software version 2.9 (SW 2.9) and ADS-B IN (FIS-B) Weather Interface installed in their EFD1000/500 systems experienced resetting of their systems. The condition is apparently caused by unexpected/malformed data being transmitted from some FIS-B ground stations that is not rejected by the EFD1000/500 system. Since it is caused by the data content of the specific ground station you are near, not all aircraft are affected equally. If the condition exists, the EFD unit(s) may reset every 10 minutes (recovering in ~60 seconds or less)

Even if your system is not currently experiencing this issue, it is possible for this condition to occur in the future until a software fix is prepared and distributed.

2. SUBJECT

This Service Bulletin identifies how to avoid an inflight system reset, and how to address the condition if a system reset occurs on flight

3. ELIGIBILITY

This Service Bulletin is applicable to the EFD1000/500 displays with ADS-B IN (FIS-B) Weather Interface with SW 2.9 installed.

The SW version can be determined by pressing the MENU key on the EFD1000 or EFD500 and rotating the right knob clockwise to the last menu page selection. The Software Version will be shown on that page.

To determine if your airplane has FIS-B enabled look at the Evolution Flight Display Airplane Flight Manual Supplement Table 1 on the ADS-B (FIS-B) Weather Interface row. If any or all boxes on that row are checked, then FIS-B is enabled.

ADS-B IN (FIS-B) Weather Interface		N/A	N/A			ADS-B IN (FIS-B) Weather Interface Make and Model:
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Figure 1 Excerpt from the EFD1000 AFMS, page 7

4. COMPLIANCE

This Service Bulletin is:

Mandatory Recommended Optional

5. PROCEDURE

If your EFD1000/500 does not have SW 2.9 installed, then no action is required. See instructions to verify this in Section 3 ELIGIBILITY in this document.

If your EFD1000/500 does not have ADS-B IN enabled, then no action is required. See instructions to verify this in Section 3 ELIGIBILITY in this document.

Pilot Action:

If the condition is experienced in flight, use the backup instruments to maintain safe flight, and follow the AFMS procedure in Section 3.2.6 to open the circuit breaker on your ADS-B equipment. The resets will stop.

Installation Action:

Prior to flight in under IFR or if the aircraft is currently experiencing this issue, the ADS-B input should be disabled by one of the procedures below. The specific ADS-B IN equipment installed can be determined by referring to the AFMS Table 1.

1. If your ADS-B IN equipment is a UAT or ADS-B IN only unit (e.g. ATX100, ATX100G, GDL-88, NGT-2500, etc.) then the circuit breaker on that equipment should be pulled and remain pulled during flight. Note that disabling the UAT may impact other systems which also get information from the UAT.
2. If your ADS-B IN source equipment is also your transponder equipment (e.g. GTX-345, NGT-9000) then contact an Aspen Avionics dealer to disable the ADS-B IN function in the installer menus of the PFD/EBD/MFD:
 - a. On the PFD/EBD installation menu, set the RS-232 INPUT for the bus connected to the ADS-B IN to NONE
 - b. If the MFD has an EBB, then on the MFD installation menu, set the RS-232 INPUT for the bus connected to the ADS-B IN to NONE
 - c. Update AFMS Table 1 to reflect the disabled units on the ADS-B IN row of Table 1.

The above should remain in effect until the EFD units are updated with a SW release (pending) to correct the issue.

6. LABOR

If your dealer disables your ADS-B IN using the install menus, approximately 1/4 hour of labor will be required to perform the actions in this service bulletin, not including checkout and documentation.

7. WARRANTY INFORMATION

This action is covered under warranty.

8. ADDITIONAL INFORMATION

Another Service Bulletin will be prepared to address the software upgrade to correct the issue. For questions, contact your local Aspen Dealer or Aspen Customer Support at fieldserviceengineers@aspenavionics.com.