



Service Information Letter

SIL Number:	606-00182-003		
To:	Owners/Operators of Avidyne IFD540		
Subject:	Frequency List Entry Sequence		
Purpose:	This Service Information Letter (SIL) advises owners and operators of Avidyne IFD540 of a potential temporary total loss of system functionality after a specific sequence of entries within the Frequency List		
Revision:	00	Date:	10/24/2014

Effectivity:

Description	IFD540
Avidyne Part Number	700-00182-000,700-00182-002
Avidyne Software Release	Release 10.0.1.0 and earlier
Aircraft Installation	ALL

Issue Description:

This Service Information Letter (SIL) advises owners and operators of Avidyne IFD540 with Release 10.0.1.0 (or earlier) Software that, after executing a specific set of entries within the frequency list, a total loss of system functionality may be experienced.

Avidyne IFD540 systems with Release 10.0.1.0 (or earlier) software may, after executing a specific set of entries within the Frequency list, experience a temporary loss of the functionality on the IFD on which the sequence of entries is performed. In the event the sequence of entries listed below is utilized, all display and control functions on the affected IFD will be temporarily lost, including all support of navigation and communication functions while the system performs an automatic reboot.

The sequence is as follows:

1. Bring up the frequency list.
2. Select a frequency from the list.
3. Scroll the frequency list so there is a frequency behind the red 'x' in the top right corner that closes the freq list.
4. Touch the red x.

Additionally, if the IFD540 is coupled with an autopilot system, and configured as the navigation source, the autopilot functionality may be degraded while the IFD is automatically rebooting. Course deviation and vertical deviation indicators on affected displays will be flagged unavailable while the IFD is automatically rebooting.



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The specific entries sequence will cause the IFD540 to go through an automatic reboot cycle in order to restore all system functionality. This reboot will delete any active flight plans and active approaches.

Note: If after rebooting, the same sequence is entered, the issue described above may repeat itself.

Recommended Pilot Actions:

In all cases, basic airmanship should be exercised and fundamentals utilized such as Maintain Aircraft Control, Analyze the Situation, and Take Proper Action.

Corrective actions:

Pilots should have a plan in place to properly monitor IFD performance during all phases of flight, especially in the take-off and approach phases, and a pre-planned course of action in case IFD performance becomes compromised. In the event of any loss of function, the pilot's plan of action will vary based on the pilot, aircraft configuration and phase of flight and other factors. Taking into account those variations, the pilot should consider the following actions:

- Establish safe separation from terrain, traffic and hazardous weather, using ATC assistance as necessary.
- If the affected IFD is in use for primary nav or comm, transition to secondary, GPS or VHF Nav/Com unit(s), if available.
- Seek VMC conditions, if necessary.
- Allow approximately 30 seconds for the system to restore all functionality.
- After automatic system reboot, avoid performing the specific sequence of events (described above) that leads to this behavior.
- Avoid performing the specific sequence of events (described above) that leads to this behavior.

Solution:

Avidyne's software engineering team has identified the fix to this issue, which will be incorporated in the next Software release (Release 10.0.2.0) which is expected to be released in November 2014.



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Contact Information:

For any questions regarding this Service Information Letter please contact Avidyne Technical Support at:

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