



Service Information Letter

SIL Number:	606-00182-017		
To:	Owners/Operators of Avidyne IFD545 and IFD550		
Subject:	IFD545/550 Attitude Reference System (ARS) operation		
Purpose:	This Service Information Letter (SIL) advises owners and operators of the Avidyne IFD545/550 of the ARS operational limitations		
Revision:	00	Date:	06/30/2017

Effectivity:

Description	IFD545, IFD550
Avidyne Part Number	700-00182-020, -021, -030, -031, -120, -121, -130, -131
Avidyne Software Release	Release 10.2.0
Aircraft Installation	ALL

Issue Description:

This Service Information Letter (SIL) provides clarification to owners and operators of the Avidyne IFD545/550 with Release 10.2.0 software on the operational limitations of the ARS and the proper procedures to restart the ARS in the event of the loss of attitude display.

Operational Limitations:

- Body Pitch & Roll rates up to 105°/sec.
- Body Yaw rates up to 70°/sec.
- Acceleration up to 4.5Gs
- Static and dynamic attitude performance to +/-60° for Pitch and Roll

These operational limitations are fully compliant to applicable Technical Standard Orders (TSO).

Important Note:

Exceeding these operational limitations may result in a temporary loss of attitude display which can be reverted by pressing the "Restart ARS" button or soft key when in Straight and Level flight.

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.



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In the event of the loss of attitude display, the pilot should consider the following actions:

- Establish safe separation from terrain, traffic and hazardous weather, using ATC assistance as necessary.
- Revert to Straight and Level flight.
- Press "Restart ARS" button or soft key and remain in Straight and Level flight until ARS restarts.

Important Note:

Following an attitude display loss, ARS re-alignment **must** be performed while in Straight and Level flight. Primary and/or backup attitude indicators should be used to establish Straight and Level. Attempting to re-align the ARS while executing a flight maneuver (e.g. bank, pitch up/down) may cause a gyro tumble resulting in erroneous attitude display.

Contact Information:

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

1-888-723-7592 Toll Free US
1-781-402-7592 International Direct Dial
techsupport@avidyne.com
www.avidyne.com/support

Avidyne Corporation
4 Middlesex Green - Suite 221
561 Virginia Road
Concord MA 01742