Integrated Flight Display
Instructions for Continued Airworthiness

As installed in

____________________________________
(Make and Model Airplane)

Reg. No. ____________ S/N______________

Important Notice
With respect to the AML STC, the physical mounting of antennas are specifically excluded from the approval in the case of installations on the pressure vessel of pressurized aircraft or composite aircraft unless approved data is listed in the Master Document List of the STC.
# Document Revision History

<table>
<thead>
<tr>
<th>Document Number</th>
<th>AVIFD-315</th>
<th>Control Category</th>
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<td><strong>Revision</strong></td>
<td><strong>Description</strong></td>
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<td>00</td>
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<td>ECO-13-199</td>
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<td>03</td>
<td>Removing ADS-B</td>
<td>ECO-14-059</td>
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<td>AEG Comments</td>
<td>ECO-15-169</td>
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<td>FAA Comments</td>
<td>ECO-15-193</td>
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<tr>
<td>07</td>
<td>Update for Release 10.2. Added IFD410, IFD510, IFD545, IFD550, ARS troubleshooting instructions and IFD550 figure</td>
<td>ECO-16-326</td>
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<td>08</td>
<td>Address AEG comments sections 2, 6, 7</td>
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1. Introduction

This document identifies the Instructions for Continued Airworthiness (ICA) for the modification of the aircraft listed in AVIFD-318 Integrated Flight Display STC Approved Model List by installation of an Avidyne 700-00182-XXX (IFD5XX) and/or 700-00179-XXX (IFD4XX) Integrated Flight Display.

This ICA satisfies the requirements of 14 CFR 23.1529.

Modification of an aircraft by this Supplemental Type Certificate obligates the aircraft operator to include the maintenance information provided by this document in the operator’s Aircraft Maintenance Manual and the operator’s Aircraft Scheduled Maintenance Program.

1.1 Applicability

This document applies to aircraft altered by the installation of the following equipment. Equipment should be installed using data listed in 700-00182-XXX/700-00179-XXX Integrated Flight Display Master Document List, document number AVIFD-306:

Table 1 IFD Part Number Variants

<table>
<thead>
<tr>
<th>Part Number</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>700-00179-010</td>
<td>INTEGRATED FLIGHT DISPLAY, IFD410, BLACK BEZEL</td>
</tr>
<tr>
<td>700-00179-110</td>
<td>INTEGRATED FLIGHT DISPLAY, IFD410, GREY BEZEL</td>
</tr>
<tr>
<td>700-00179-000</td>
<td>INTEGRATED FLIGHT DISPLAY, IFD440, BLACK BEZEL</td>
</tr>
<tr>
<td>700-00179-100</td>
<td>INTEGRATED FLIGHT DISPLAY, IFD540, GREY BEZEL</td>
</tr>
<tr>
<td>700-00182-010</td>
<td>INTEGRATED FLIGHT DISPLAY, IFD510, BLACK BEZEL</td>
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<tr>
<td>700-00182-110</td>
<td>INTEGRATED FLIGHT DISPLAY, IFD510, GREY BEZEL</td>
</tr>
<tr>
<td>700-00182-000</td>
<td>INTEGRATED FLIGHT DISPLAY, IFD540, BLACK BEZEL</td>
</tr>
<tr>
<td>700-00182-001</td>
<td>INTEGRATED FLIGHT DISPLAY, IFD540, BLACK BEZEL WITH VIDEO</td>
</tr>
<tr>
<td>700-00182-002</td>
<td>INTEGRATED FLIGHT DISPLAY, IFD540, BLACK BEZEL, 16W VHF</td>
</tr>
<tr>
<td>Part Number</td>
<td>Description</td>
</tr>
<tr>
<td>-------------</td>
<td>------------------------------------------------------------------</td>
</tr>
<tr>
<td>700-00182-100</td>
<td>INTEGRATED FLIGHT DISPLAY, IFD540, GREY BEZEL</td>
</tr>
<tr>
<td>700-00182-101</td>
<td>INTEGRATED FLIGHT DISPLAY, IFD540, GREY BEZEL WITH VIDEO</td>
</tr>
<tr>
<td>700-00182-102</td>
<td>INTEGRATED FLIGHT DISPLAY, IFD540, GREY BEZEL, 16W VHF</td>
</tr>
<tr>
<td>700-00182-030</td>
<td>INTEGRATED FLIGHT DISPLAY, IFD545, BLACK BEZEL</td>
</tr>
<tr>
<td>700-00182-031</td>
<td>INTEGRATED FLIGHT DISPLAY, IFD545, BLACK BEZEL, WITH VIDEO</td>
</tr>
<tr>
<td>700-00182-130</td>
<td>INTEGRATED FLIGHT DISPLAY, IFD545, GREY BEZEL</td>
</tr>
<tr>
<td>700-00182-131</td>
<td>INTEGRATED FLIGHT DISPLAY, IFD545, GREY BEZEL, WITH VIDEO</td>
</tr>
<tr>
<td>700-00182-020</td>
<td>INTEGRATED FLIGHT DISPLAY, IFD550, BLACK BEZEL</td>
</tr>
<tr>
<td>700-00182-021</td>
<td>INTEGRATED FLIGHT DISPLAY, IFD550, BLACK BEZEL, WITH VIDEO</td>
</tr>
<tr>
<td>700-00182-120</td>
<td>INTEGRATED FLIGHT DISPLAY, IFD545, GREY BEZEL</td>
</tr>
<tr>
<td>700-00182-121</td>
<td>INTEGRATED FLIGHT DISPLAY, IFD550, GREY BEZEL, WITH VIDEO</td>
</tr>
</tbody>
</table>

1.2 Definitions and Abbreviations
AML - Approved Model List
ARS – Attitude Reference Sensor
ICA - Instructions for Continued Airworthiness
IFD - Integrated Flight Display
STC - Supplemental Type Certificate
AMM – Aircraft Maintenance Manual

1.3 Precautions
This section is not applicable.
1.4 *Units of Measure*

This section is not applicable.

1.5 *Referenced Publications*

<table>
<thead>
<tr>
<th>Document Number</th>
<th>Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>600-00299-000</td>
<td>IFD5XX/IFD4XX Installation Manual</td>
</tr>
<tr>
<td>600-00300-001</td>
<td>IFD540 Pilot’s Guide</td>
</tr>
<tr>
<td>600-00304-000</td>
<td>IFD440 Pilot's Guide</td>
</tr>
<tr>
<td>600-00317-000</td>
<td>IFD550 and IFD545 Pilot’s Guide</td>
</tr>
<tr>
<td>600-00318-000</td>
<td>IFD510 Pilot’s Guide</td>
</tr>
<tr>
<td>600-00319-000</td>
<td>IFD410 Pilot’s Guide</td>
</tr>
</tbody>
</table>

1.6 *Distribution*

This Instruction for Continued Airworthiness is to be furnished with new production IFD systems and is to become part of the permanent aircraft records upon installation.

A current revision of this ICA shall be available on the Avidyne website at [www.avidyne.com](http://www.avidyne.com) (Technical Publications in the Products section).

In the event of a service bulletin or other circumstances that require an update, Avidyne will notify the contact as listed on the owner registration.
2. Description

The IFD system is a panel mounted integrated system that provides navigation, communication, and multifunction display capability in one display. The IFD5XX/IFD4XX can display information from a wide variety of aircraft sensors. The IFD’s are available in the following variations:

- **IFD540** - Baseline 5.7” Display unit with GPS/NAV/COM
- **IFD550** - Same as IFD540 but with integral attitude reference sensor ARS, add’l page button (SVS)
- **IFD545** - Same as IFD540 but with integral attitude reference sensor ARS, add’l page button (SVS) without NAV/COM functions, GPS only, left knob removed
- **IFD510** - Same as IFD540 but without NAV/COM functions, GPS only, left knob removed
- **IFD440** - Baseline 4.8” Display unit with GPS/NAV/COM
- **IFD410** - Same as IFD440 but without NAV/COM functions, GPS only, left knob removed

The IFD410 and IFD440 can be a plug-and-play replacement for the Garmin GNS4XX series of NAV/COM/GPS units.

The IFD510, IFD545, IFD540 and IFD550 can be a plug-and-play replacement for the Garmin GNS5XX series of NAV/COM/GPS units.

When replacing a Garmin unit, follow the existing approved ICA, STC manual, or OEM instructions.
2.1 Equipment Locations

The installer should indicate on the outlines below the locations for the following items at the time of installation: IFD5XX/IFD4XX unit, wire harness location and routing, coaxial cables, and antennas. Use Figure 1 for single engine airplanes or Figure 2 for multi engine airplanes.

Figure 1: IFD5XX/IFD4XX Location - Single Engine
Figure 2: IFD5XX/IFD4XX Location – Multi Engine
3. Control and Operation Information

The IFD5XX/IFD4XX System can be controlled using the button and knobs on the bezel of the unit. Alternately, some functions can be controlled using the touch-screen on the unit's display.

![Figure 3: IFD540/510 Unit](image1)

![Figure 4: IFD4XX Unit](image2)

![Figure 5: IFD545/550 Unit](image3)
3.1 Page Function Keys

The 3 buttons along the bottom of the IFD bezel are called Page Function Keys. Each key is labeled by function:

- FMS (Flight Management System)
- Map (Moving Map)
- AUX (Auxiliary Pages)

Each page has a number of associated tabs. Each Page Function key has a left and right rocker nature to it. Select the page of interest by pressing the middle of the Page Function Key and navigate through the available tabs by pressing the left or right.

3.2 Line Select Keys

Line Select Keys, typically abbreviated to LSK, are the buttons found along the left side of the bezel. A label, just inside the bezel – adjacent to the physical LSK, indicates the function of the LSK. Pressing the LSK or the label either performs the labeled action or changes the state. For the cases where there is a list of selectable options, browse the list by repeatedly pressing the LSK or label.

4. Servicing Information

The 700-00182-XXX and 700-00179-XXX IFD can only be serviced by qualified and properly rated facility.
5. **Maintenance Instructions**

Other than the scheduled and periodic inspection tasks discussed below, maintenance of the Avidyne IFD5XX/IFD4XX is based on condition and function only; no other periodic maintenance is required.

5.1 **Scheduled Maintenance**

The following tasks may be required on the IFD5XX/IFD4XX:

a. If the IFD5XX/IFD4XX is providing GPS position to the ELT, every 12 months verify the Emergency Locator Transmitter (ELT) is operating correctly per the ELT maintenance instructions.

5.2 **Recommended periodic scheduled servicing tasks**

There are no life limited components in the IFD5XX/4XX that require scheduled inspection or service. Perform the following inspections during annual/100 hour maintenance interval to establish airworthy condition and function.

1. During any maintenance activities involving the IFD System perform (i.e. IFD removal, cable repair…) a post-installation check as described in Installation Manual, Integrated Flight Display Installation Manual 600-00299-000.

2. Visually inspect (no magnification required) wire/bundle, coaxial cables, overbraid (if installed), and routing for evidence of damage, chafing, grounding, security, bonding, integrity of shields, and connector backshell condition.

3. Visually inspect (no magnification required) the mechanical installation for any defects or damage to the aircraft structure or to the IFD5XX/IFD4XX.

4. Visually inspect (no magnification required) the GPS, COM, NAV, and Glideslope antennas. Verify bonding of the antennas is no greater than 2.5 milliohm.

5. Verify that the bonding between the aircraft and each unit of the IFD system should have a resistance no greater than 2.5 milliohm as described in the Integrated Flight Display Installation Manual 600-00299-000.

6. Verify that all mandatory Service Alerts and/or Service Bulletins for the IFD System have been accomplished. (This can be done using the internet at [www.avidyne.com](http://www.avidyne.com)).
5.3 Software Upgrade

The following procedures should be followed when performing optional or mandatory software change to the IFD System:

1. Acquire the software image and associated loading procedure from the manufacturer.

2. Verify the software part number configuration before and after maintenance is performed on the airborne equipment using the loading procedure instructions.

3. It is the responsibility of maintenance personnel to ensure the identified part is recorded in the necessary maintenance logs.

4. It is the maintenance personnel’s responsibility to ensure that the software part identification has been logged. When new software is loaded into the unit, the correct software part number should be verified according to the instructions accompanying the software change before the unit is returned to service. Hardware versions are identified on the data label by brackets following the main part number.

5. Changes to software part number, version, and/or operational characteristics should be reflected in the Operator’s Manual, Aircraft Flight Manual, Aircraft Flight Manual Supplement, and/or any other appropriate document.
6. **Troubleshooting Information**

Refer to the manufacturers’ installation and user’s manuals to assist in troubleshooting. The following items present common installation problems and recommended actions for the Avidyne IFD5XX/IFD4XX System.

<table>
<thead>
<tr>
<th>Component</th>
<th>Trouble</th>
<th>Probable Cause</th>
<th>Solution</th>
</tr>
</thead>
<tbody>
<tr>
<td>GPS</td>
<td>The IFD5XX/IFD4XX is not computing a position</td>
<td>Aircraft is not positioned in a location to receive GPS satellites</td>
<td>Move aircraft to a better location</td>
</tr>
<tr>
<td></td>
<td></td>
<td>GPS Antenna System</td>
<td>Check Antenna coaxial cables for proper assembly</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>Check or replace the GPS antenna</td>
</tr>
<tr>
<td></td>
<td>The GPS Signal Levels drop when avionics are turned on.</td>
<td>Noise interference from other avionics</td>
<td>Turn off all avionics off, then turn on each piece one at time to isolate the interference to the</td>
</tr>
<tr>
<td></td>
<td>The GPS signal levels are very low.</td>
<td>Antenna</td>
<td>Verify the GPS antenna is connected to the correct antenna</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>Repair or Replace antenna</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Antenna shaded from satellites</td>
<td>Move aircraft to a better location</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Interference from avionics</td>
<td>Re-route GPS antenna system away from sources of interference.</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Interference from a VHF Communication transmitter</td>
<td>Move GPS antenna away from the VHF Communication antenna or install a 1575.22 MHz notch filter.</td>
</tr>
<tr>
<td>VHF Communication</td>
<td>VHF Communication transceiver is not transmitting</td>
<td>The PTT input is not being grounded</td>
<td>Check PTT input to the IFD5XX/IFD4XX</td>
</tr>
<tr>
<td></td>
<td>VHF Communication transceiver power is low</td>
<td>VSWR too high</td>
<td>Check VSWR is less than 3:1</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Coaxial Cable</td>
<td>Repair or replace coaxial cable</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Antenna</td>
<td>Repair or Replace VHF Com antenna</td>
</tr>
<tr>
<td>Navigation Receiver</td>
<td>VHF Navigation Receiver not receiving VOR/LOC station</td>
<td>VHF Navigation station not tuned correctly.</td>
<td>Tune the IFD5XX/IFD4XX to the correct station</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Antenna</td>
<td>Repair or Replace Antenna</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Diplexer</td>
<td>Repair or Replace Diplexer</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Coaxial Cables</td>
<td>Repair or Replace Cable</td>
</tr>
<tr>
<td>Attitude Reference System</td>
<td>The pitch ladder and horizon are replaced with Red X</td>
<td>ARS Failure</td>
<td>Replace IFD</td>
</tr>
<tr>
<td>(ARS) (IFD545/550)</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>RMI pointer</td>
<td>RMI not displaying indicating</td>
<td>Wiring</td>
<td>Check wiring</td>
</tr>
<tr>
<td>Component</td>
<td>Trouble</td>
<td>Probable Cause</td>
<td>Solution</td>
</tr>
<tr>
<td>-----------------</td>
<td>--------------------------------------------------------------------------</td>
<td>----------------------------------------------------------------------------------</td>
<td>---------------------------------------------------------------------------------------------</td>
</tr>
<tr>
<td></td>
<td>correctly</td>
<td>Desired RMI not selected</td>
<td>Select the IFD5XX/IFD4XX on the RMI</td>
</tr>
<tr>
<td></td>
<td></td>
<td>VHF Navigation station not tuned correctly.</td>
<td>Tune the IFD5XX/IFD4XX to the correct station</td>
</tr>
<tr>
<td>DME</td>
<td>IFD5XX/IFD4XX is not tuning the DME correctly</td>
<td>IFD5XX/IFD4XX configuration</td>
<td>Verify the IFD5XX/IFD4XX is configured for the correct DME</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Wiring</td>
<td>Check wiring</td>
</tr>
<tr>
<td></td>
<td></td>
<td>VHF Navigation station not tuned correctly.</td>
<td>Tune the IFD5XX/IFD4XX to the correct station</td>
</tr>
<tr>
<td>ARINC device</td>
<td>ARINC 429 is not receiving / transmitting data from the IFD5XX/IFD4XX</td>
<td>Wiring</td>
<td>Make sure wire harness is connected. Check the wire harness and repair or replace if needed.</td>
</tr>
<tr>
<td></td>
<td></td>
<td>IFD5XX/IFD4XX configuration</td>
<td>Verify the IFD5XX/IFD4XX is configured for the ARINC device</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>Verify the ARINC 429 device speed is set correctly on the IFD5XX/IFD4XX</td>
</tr>
<tr>
<td>RS-232 device</td>
<td>ARINC 429 is not receiving / transmitting data from the IFD5XX/IFD4XX</td>
<td>Wiring</td>
<td>Make sure wire harness is connected. Check the wire harness and repair or replace if needed.</td>
</tr>
<tr>
<td></td>
<td></td>
<td>IFD5XX/IFD4XX configuration</td>
<td>Verify the IFD5XX/IFD4XX is configured for the RS-232 device</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>Verify the RS-232 device speed is set correctly on the IFD5XX/IFD4XX</td>
</tr>
<tr>
<td>Battery Replacement</td>
<td>Battery Annunciation on IFD540/440</td>
<td>The IFD540/440 internal battery has failed</td>
<td>Contact Avidyne for Repair</td>
</tr>
</tbody>
</table>
7. **Removal and Replacement Information**

Removal and replacement instructions, including system set-up and installation verification, are contained in the Integrated Flight Display Installation Manual. Unit removal, installation, setup and checkout should be performed by an Avidyne Authorized Service Center.

**Caution:** Prior to removing any piece of electronic equipment, aircraft power must be removed from the system.

### 7.1 IFD5XX/IFD4XX Removal

1. Insert a 3/32” hex wrench into the hole on the front panel on the IFD5XX/IFD4XX and engage locking screw.
2. Turn the locking screw counter-clockwise to loosen locking cam. Cam will move the unit out ¼” and disengage the electrical connectors.
3. Remove unit from tray.

### 7.2 IFD5XX/IFD4XX Installation

1. Slide the IFD5XX/IFD4XX unit into the tray.
2. Insert a 3/32” hex wrench into the hole on the front panel on the IFD5XX/IFD4XX and engage locking screw.
3. Turn the locking screw clockwise to tighten the locking cam until the unit is flush to the tray.
4. Perform post-installation verification per Section 7.7.

### 7.3 GPS Antenna Removal

1. Remove sealant from around the base of the antenna.
2. Disconnect coaxial cable
3. Remove fasteners from antenna
4. Lift antenna clear of fuselage

### 7.4 GPS Antenna Installation

1. Position antenna on aircraft
2. Attach antenna to fuselage with fasteners
3. Verify the GPS antenna is bonded to the airframe. With the coaxial cable disconnected, the bond between the antenna base plate and the aircraft metallic skin must measure ≤ 2.5 milliohm
4. Seal any minor gaps between the antenna base plate or gasket and the aircraft skin with RTV silicone adhesive sealant
5. Connect GPS coaxial cable
6. Perform post-installation verification per Section 7.7.
7.5 Tray Removal
1. Remove IFD from Tray, See Section 7.1
2. Remove fasteners from Tray and Connectors
3. Remove tray from instrument panel

7.6 Tray Installation
1. Re-install fasteners in connectors and tray
2. Re-install IFD, see Section 7.2
3. Verify the tray is bonded to the airframe. The bond between the tray and the airframe must measure ≤ 2.5 milliohm
4. Perform post-installation verification per Section 7.7.

7.7 System Setup and Checkout
After any maintenance activity involving the IFD System, the post-installation checkout should be performed. Verify the following functions of the IFD5XX/IFD4XX is operating correctly, reference the IFD5XX/IFD4XX Installation Manual and Pilot Guide as need.
The installation manual, Avidyne Document 600-00299-000 Rev. 10 (or later FAA approved revision), contains detail setup and testing information if needed.

7.7.1 VHF Communication Checkout
Tune the VHF Communication Transceiver to an unused frequency, verify the IFD5XX/IFD4XX can receive and transmit on that frequency.

7.7.2 Navigation Checkout
Verify the IFD5XX/IFD4XX GPS Navigation and VHF Navigation (if installed) is operating correctly including navigation source selection. If installed, verify the following is operating correctly: navigation displayed on a CDI/HSI, external annunciation, and audio output.

7.7.3 External Sensor Checkout
The IFD5XX/IFD4XX can be connected to several different external sensors. Verify each sensor is operating correctly per the manufacturer's maintenance information.
8. Application of Protective Treatments
   This section is not applicable.

9. Data
   Reference the 700-00182-XXX and 700-00179-XXX STC Master Document List, Avidyne Document AVIFD-306, for installation data. The Installation Manual, Avidyne Document 600-00299-000 Rev. 10 (or later FAA approved revision), contains the wiring diagrams for the system. Also, reference FAA AC 43.13 as needed.

10. List of Special Tools
    No special tools are required for this installation.

11. For Commuter Category Aircraft
    This section is not applicable.

12. Recommended Overhaul Periods
    No overhaul periods are required for this installation.

13. Airworthiness Limitations Section
    There are no Airworthiness Limitations as defined in 14 CFR § 23, Appendix G. The Airworthiness Limitations section is FAA approved and specifies maintenance required under § §43.16 and 91.403 of the Federal Aviation Regulations unless an alternative program has been FAA approved.
14. Revision

Revisions to this document shall be coordinated through the Boston Aircraft Certification Office, the Kansas City AEG, and the STC holder. If you would like to be notified of future revisions to this manual please furnish the information listed below:

- Name
- Address
- City, State, and ZIP Code
- Part Number of Manual
- Current Revision Status of the Manual
- E-mail address
- Phone Number

Please submit this information to:
Avidyne Corporation
4 Middlesex Green, Suite 221
561 Virginia Road
Concord MA 01742

15. Assistance

For questions or assistance regarding this ICA, contact Avidyne Corporation.

16. Implementation and Record Keeping

This ICA must be incorporated into applicable section for aircraft inspections, 91.409 for annual/100 hour inspections or 135.419 for FAA approved alternate inspections.