

# FlightMax™ Entegra EXP5000 Primary Flight Display

## Quick Reference Installers Card

This quick reference card is provided for reference when installing or removing a FlightMax™ Entegra EXP5000 Primary Flight Display herein referred to as an “EXP5000 PFD” or “PFD”. See the Avidyne FlightMax™ Entegra PFD Installation Manual for full procedures and a complete set of instructions. This quick reference card is not a substitute for the PFD Installation manual.

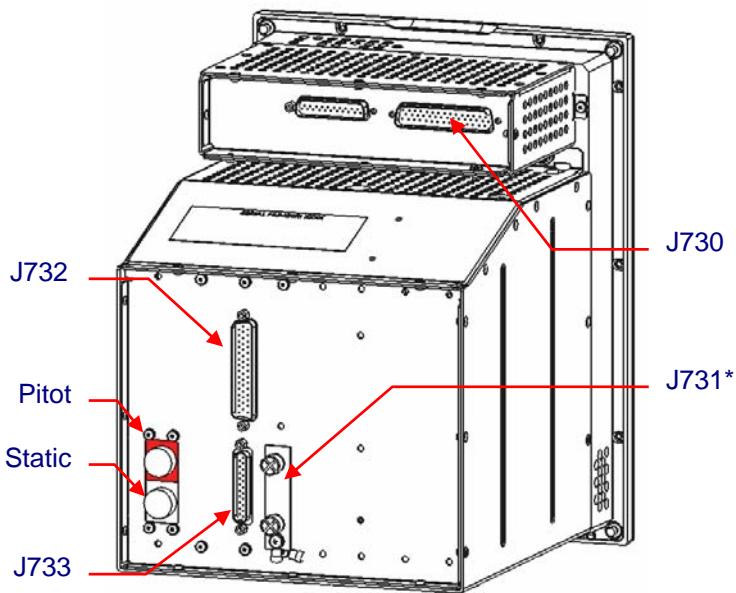
### Installation Considerations

- Panel mount screws are to be installed with 30 ±0.5 in-lb of torque.
- Positive ground path must be established between the PFD chassis and airframe ground (< .5 Ohm).
- System setup page is entered by applying power to EXP5000 PFD and then simultaneously pressing and holding the left 1<sup>st</sup> and 3<sup>rd</sup> line select keys until the countdown timer in the lower left reaches zero.

### Removal Considerations

- In some airframes, prior removal of the Avidyne EX5000 MFD will allow considerable access to the EXP5000 PFD connectors and fittings.

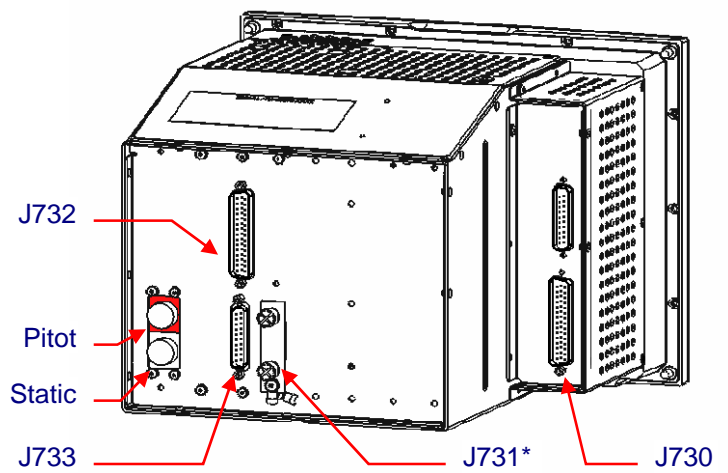
**CAUTION:** Exercise significant care when removing the PFD to not snap off the pitot-static connectors in the back on the PFD. Improper care could void the warranty. If possible, the pitot-static hoses should be removed from the PFD via the quick disconnects before attempting to remove the PFD.



EXP5000 PFD Portrait Rear View

### Calibration Considerations

- Perform the calibrations in the order they appear on the system setup page.
- IRU calibrations MUST be performed prior to magnetometer calibrations.
- IRU calibrations must be performed:
  - i. Upon initial installation, or;
  - ii. After each EXP5000 PFD replacement.
- Magnetometer calibrations must be performed:
  - i. Upon initial installations, or;
  - ii. Upon magnetometer replacement, or;
  - iii. After replacing a EXP5000 PFD and performing an IRU calibration, or;
  - iv. Bi-annually.
- Ensure the magnetometer is a minimum of 300 feet away from any electromagnetic field generating disturbances (e.g. motors, pump, iron pipes, magnets, etc) during alignments or calibrations.
- Autopilot calibrations must be performed:
  - i. Upon initial installations, or;
  - ii. After each EXP5000 PFD replacement.



EXP5000 PFD Landscape Rear View

\*On some installations J731 may not have a cover over the connector as shown in figures above.

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### Common Maintenance Actions

- EXP5000 PFD Initial Installation
    - Magnetometer installed
    - PFD installed
    - Pitot-Static leak check performed
    - MFD installed
    - Select aircraft model
    - PFD-level GPS NAV/COM and autopilot setups and checks performed
    - Optionally configure baro units
    - IRU cal performed
    - Magnetometer cal performed
    - Lighting check performed
    - EMI check performed
    - Autopilot calibration performed in-flight
    - Performance flight check performed
  - EXP5000 PFD – Removed and replaced with different PFD
    - PFD re-installed
    - Pitot-Static leak check performed
    - Select aircraft model
    - PFD-level GPS NAV/COM and autopilot setups and checks performed
    - Optionally configure baro units
    - IRU cal performed
    - Mag cal performed
    - Autopilot cal performed
    - Performance flight check performed
  - EXP5000 PFD – Remove and replaced same PFD
    - PFD re-installed
    - Pitot-Static leak check performed
    - Performance flight check performed
  - EXP5000 PFD – Cleaning Display Screen
    - Use a soft lint free cloth
    - Use Optimax LCD cleaning solution, if Optimax LCD cleaner can not be obtained use water
    - ALWAYS apply cleaning solution directly to the cloth and NEVER directly to the screen
    - NEVER use products that contain ammonia, alcohol, acetone, ethyl alcohol, ethyl acid, methyl chloride etc.
- CAUTION:** Using products with ammonia or other harmful ingredients or materials could void the warranty.
- Magnetometer – Removed and replaced with different magnetometer
    - Mag installed
    - Mag cal performed
    - Performance flight check performed
  - Magnetometer – Removed and replaced with same magnetometer
    - Mag installed
    - Performance flight check performed

- ❖ Repair of EXP5000 PFDs and Magnetometer/OAT assemblies are performed at an Avidyne service facility.
- ❖ Contact Avidyne Technical Support at the telephone to receive return instructions and authorization prior to shipping the product.
- ❖ In most cases, an Avionics Discrepancy Report will need to accompany any returned unit. This report can be downloaded from the internet address site listed below.

### Avidyne Technical Support

Voice: 888-723-7592

Fax: 781-402-7599

Email: [techsupport@avidyne.com](mailto:techsupport@avidyne.com)

Technical Documents (e.g. Full EXP5000 PFD Installation Manual)  
can be downloaded via internet:

[www.MyAvidyne.com](http://www.MyAvidyne.com)

Avidyne business hours: 8:00 AM to 5:30 PM Eastern Time, Monday through Friday