

**SERVICE INFORMATION LETTER 016**

July 7, 2005

Subject: Potential Limits Modification when Updating to 5.0B EFIS Software.

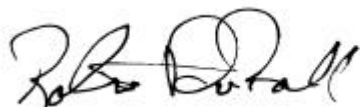
This Service Information Letter is to inform maintenance personnel of a potential need to modify the EFIS limits when upgrading to 5.0B software.

There has been a report from the field that after modification of the EFIS software to 5.0B, the EFIS would gradually output maximum Heading Datum to an autopilot when the Heading Bug or a flight plan deviates more than 1 degree from the aircraft heading. Upon investigation, it was found that the Autopilot Digital Gain option in the EFIS limits was set to a value other than default ("1") which caused the AIU to slowly increase the Heading Datum output to maximum when the EFIS software is at 5.0B. Once the Autopilot Digital Gain value was set back to default, the AIU operated normally.

The current IDU Limits program (version 1.5.6) does not allow maintenance personnel to modify the Digital Gain option. Correction of the Digital Gain option is performed by a software application and Service Bulletin applied to the PFD or single screen MFD as required.

Maintenance Personnel may determine if this issue exists prior to upgrading the EFIS Software to Version 5.0B by viewing the Autopilot Digital Gain setting using the Ground Maintenance menu, and selecting the "View System Limits" option. The Autopilot Digital Gain setting is displayed in the System User Programmed Settings (Page 1). Refer to the EFIS Installation Instructions, Doc. 150-045264, Section 5 for further details.

If the EFIS exhibits this issue, or the Autopilot Digital Gain option is not set to default (1), contact Chelton Technical Support at (208) 389-9959 between 8:00am and 5:00pm, Monday thru Friday, Mountain Time, or (208) 761-1794 after hours to order the Service Bulletin 17 and the IDU limits modification file.



Robert DuRall  
Manager, Avionic Service Dept.  
Chelton Flight Systems