

Service Bulletin No: 45-003

Ref No: 248

Modification No: EC-08-0466

ATA Chapter: 45

**UPGRADE THE HONEYWELL PRIMUS APEX OPERATIONAL SOFTWARE TO BUILD 6****1. Planning Information****A. Effectivity**

PC-12/47E aircraft MSN 545 and MSNs 1001 thru 1180.

This modification will be accomplished during production on MSN 1181 and subsequent.

**B. Concurrent Requirements**

None.

**C. Reason****(1) Problem**

The following new functionality has been introduced with the new Honeywell Primus APEX Software Build 6:

- Coupled VNAV Approach capability
- LPV functionality (optional)
- METAR and TAF indications, Satellite Graphical Weather (optional)
- Selection of circling approaches possible.

Several product improvements have been incorporated with the new Honeywell Primus APEX Software Build 6, including:

- Stormtop labels and time stamp indications corrected, Satellite Graphical Weather (optional)
- Reduction of nuisance CAS messages and callouts
- CAS message introduced when the ATC transponder is not set to ALT/TA when in the air
- Yaw damper authority increased.

**(2) Solution**

Upgrade the Honeywell Primus APEX Operational Software to Build 6 standard and install new Actuator Input/Output Processor (AIOP) modules in the Modular Avionics Unit (MAU).

Revision 1: An updated LDI which has a new part number (P/N 545.45.12.043) is available. This Service Bulletin is revised to include the new LDI part number.

If LDI P/N 545.45.12.042 has been loaded using the initial issue of this Service Bulletin, you only need to load the new LDI P/N 545.45.12.043, AMM 12-B-45-45-00-00A-550A-A.

Revision 2 adds a Note regarding downgrade of Operational software Build standard. Customers who have incorporated this Service Bulletin at a previous revision do not need to do further work.

**D. Description**

This Service Bulletin gives the data and instructions necessary to replace the AIOB modules and do a full software load to update the Honeywell Primus APEX Operational Software to Build 6.

**E. Compliance**

Recommended.

**F. Approval**

The technical content of this Service Bulletin is approved under the authority of DOA No. EASA. 21J. 357.

PILATUS advises Operators/Owners to check with their local Airworthiness Authorities for any changes, local regulations or sanctions that may affect the embodiment of this Service Bulletin.

**G. Manpower**

	Total	
	Executive Interior	Standard Interior
Preparation	1.0	0.5
Modification	6.5	6.5
Close up	1.0	0.5
<b>TOTAL MAN-HOURS</b>	<b>8.5</b>	<b>7.5</b>

**H. Weight and Balance**

Not changed.

**I. Electrical Load Data**

Not changed.

**J. Software**

The Honeywell Primus APEX Operational Software is updated to Build 6.

**NOTE:** It is NOT acceptable to downgrade the Primus APEX Operational software (i.e. install a lower Build standard of Operational software than that which is currently loaded).

**K. References**

Aircraft Maintenance Manual (AMM): 12-B-06-20-00-00A-040A-A, 12-B-24-00-00-00A-901A-A, 12-B-25-21-04-00A-920A-A, 12-B-25-22-04-00A-920A-A, 12-B-31-41-00-00A-920A-A, 12-B-31-41-01-00A-920A-A, 12-B-31-42-00-00A-920A-A, 12-B-45-45-00-00A-550A-A.

**L. Publications Affected**

AMM, AFM (Revision 8), IPC, Honeywell Primus APEX Pilot Guide (Revision 2).

**M. Interchangeability of Parts**

Not applicable.

**2. Material Information****A. Material - Price and Availability**

Operators should send orders for Service Bulletin Modification Kits, to their Authorized Pilatus Service Center.

If you want more information about the retrofit of software build 6, please contact us as follows:

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**B. Warranty**

- (1) Honeywell agrees to cover the costs for labor of affected aircraft on approval of a warranty claim, provided the work is accomplished by an appropriately rated Honeywell Service Center within 12 months of the issue date of this Service Bulletin. A properly completed warranty claim may be filed by accessing the Honeywell Aerospace web page at: <https://portal.honeywell.com/wps/portal/aero/serviceprograms/warranty> and selecting the Bendix King logo.