

Service Bulletin No: 45-008

Ref No: 283

Modification No: EC-11-0094

ATA Chapter: 45

UPGRADE THE HONEYWELL PRIMUS APEX OPERATIONAL SOFTWARE TO BUILD 8**1. Planning Information****A. Effectivity**

PC-12/47E aircraft MSN 545 and MSNs 1001 thru 1299 and 1301 thru 1340.

This modification will be accomplished during production on MSN 1300, 1341 and subsequent.

B. Concurrent Requirements

Service Bulletin 22-005 - MSN 545, 1001 thru 1170 - Replacement of the Flight Guidance Panel for coupled VNAV functionality (see AFM Supplement No. 9).

NOTE: It is acceptable to select the coupled VNAV option in the option file without the correct Flight Guidance Panel installed.

Service Bulletin 34-026 (latest revision) or 34-032 (latest Revision) - MSN 545, 1001 thru 1230 - Introduction of a Honeywell Global Navigation System Sensor Unit (GNSSU).

NOTE: It is NOT acceptable to downgrade the Primus APEX Operational software (i.e., to install a lower software Build number than that currently installed on the aircraft).

NOTE: Customers are reminded to request the Nav database for Build 8 from INDS. The new database is needed following accomplishment of this Service Bulletin.

NOTE: Customers are reminded to co-ordinate with OBDS Customer Support for a new Electronic Check List following accomplishment of this Service Bulletin.

C. Reason**(1) Problem**

The following new option has been introduced with the new Honeywell Primus APEX software Build 8:

- Steep approach capability for ILS

Several new functionality and product improvements are being introduced with the new Honeywell Primus APEX Software Build 8, including:

- Charts -
 - automatic pop-up after landing
 - aircraft position on chart in pre-departure mode
 - general improvements and bug fixes
- FMS/INAV
 - depiction of holding entry
 - airspace names on INAV
 - XM/WX wind layer presentation improved
 - visual reporting points on INAV
 - FMS maximum descent angle increased to 8 degrees
 - vertical situation display improvements
 - dynamically sized TCAS box on INAV
- Primary Flight Display
 - dynamic speed bug
 - metric altitude selection resolution
 - new PFD layout (all brown over blue)

(2) Solution

Upgrade the Honeywell Primus APEX Operational Software to Build 8 standard.

NOTE: New Options (which could not be offered at the time of specifying the aircraft standard) are now available for retrofit with Service Bulletin 45-004.

D. Description

This Service Bulletin gives the data and instructions necessary to do a full software load to update the Honeywell Primus APEX Operational Software to Build 8. It also gives the instructions necessary to upgrade the Cursor Control Device (CCD) functionality (if installed) if Service Bulletin 45-005 has not been accomplished (MSN 1001 thru 1270 only).

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.

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H. Manpower

	Total	
	no CCD modification required	CCD modification required (MSN 545, 1001 thru 1270 pre SB 45-005)
Preparation	0.5	1.0
Modification	3.0	7.0
Close up	0.5	1.0
TOTAL MAN-HOURS	4.0	9.0

I. Weight and Balance

None.

J. Electrical Load Data

Not changed.

K. Software

The Honeywell Primus APEX Operational Software is updated to Build 8.

L. References

Aircraft Maintenance Manual (AMM): 12-B-06-20-00-00A-040A-A, 12-B-24-00-00-00A-901A-A, 12-B-31-30-01-00A-903A-A, 12-B-45-45-00-00A-550A-A, 12-B-45-45-00-00A-553A-A, 12-B-46-30-03-00A-920A-A, 12-B-46-30-07-00A-903A-A, 12-B-46-30-07-04A-920A-A.

AFM Revision 11.

M. Publications Affected

AMM, AFM, IPC, Honeywell Primus APEX Pilot Guide.

N. 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 8, 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.

(2) Parts listed under Paragraph 2.C.1 and 2.C.2 are provided free-of-charge provided that no new options are being activated and the work is accomplished by an authorized Service Center within 12 months of the issue date of this Service Bulletin.

NOTE: To activate new options, please follow the instructions in Service Bulletin 45-004.

(3) For affected aircraft pre Service Bulletin 45-005, Pilatus will issue a credit for 5 manhours and the CCD related parts (listed at Paragraph 2.C.3) on approval of a warranty claim, provided the work is accomplished by an authorized Service Center within 12 months of the issue date of this Service Bulletin.

C. Material Necessary for Each Aircraft

NOTE: Part Numbers given in this Service Bulletin are correct at the time of approval. Pilatus Aircraft Ltd. reserves the right to change the part numbers as necessary. Part numbers of items delivered with the Modification Kit are correct when the kit is dispatched. This could lead to differences between those part numbers quoted in this Service Bulletin