

Service Bulletin No: 45-010

Ref No: 308

Modification No: EC-13-0089

ATA Chapter: 45

**CENTRAL MAINTENANCE SYSTEM - CENTRAL COMPUTER - UPGRADE THE HONEYWELL PRIMUS APEX OPERATIONAL SOFTWARE TO BUILD 8.6****1. Planning Information****A. Effectivity**

PC-12/47E aircraft MSN 545 and MSNs 1001 thru 1450.

This modification will be accomplished during production on MSN 1451 and subsequent.

**B. Concurrent Requirements**

Service Bulletin 22-005 - MSN 545, 1001 thru 1180 - 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 or Service Bulletin 34-032 (latest Revision) - MSN 545, 1001 thru 1332 - Introduction of a Honeywell Satellite Based Augmentation System (SBAS) 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 8.6 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**

The new Honeywell Primus APEX Operational Software Build 8.6 is compatible with all different MAU (Modular Avionics Unit) hardware configurations:

- Pre and post SB 45-007 (new 100Mbit NIC modules)
- Pre and post SB 31-018 (new GIO and CSIO modules).

Build 8.6 introduces minor FMS changes to address the possibility of FMS wrong turn issues.

For the description of the changes (Reason) between different Primus Apex Software Builds, refer to:

- SB 45-005 for changes between Build 6 and 7
- SB 45-008 for changes between Build 7 and Build 8
- SB 45-009 for changes between Build 8 and 8.3.3.

**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 8.6.

**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 designated 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
Preparation	0.5
Modification	2.5
Close up	0.5
<b>TOTAL MAN-HOURS</b>	<b>3.5</b>

**I. Weight and Balance**

None.

**J. Electrical Load Data**

Not changed.

**K. Software**

The Honeywell Primus APEX Operational Software is updated to Build 8.6.

**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).

**L. References**

Aircraft Maintenance Manual (AMM): 12-B-06-20-00-00A-040A-A, 12-B-24-00-00-00A-901A-A, 12-B-45-45-00-00A-331A-A, 12-B-45-45-00-00A-550A-A.

**M. Publications Affected**

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

**N. Interchangeability of Parts**

Not applicable.

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

If you want more information about this modification, please contact us as follows:

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Operators are requested to advise Pilatus Aircraft Ltd, of the Manufacturer's Serial Number (MSN) and the flying hours of aircraft which are affected by this Service Bulletin.

**B. Warranty**

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.

**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 and the Modification Kit if parts are superseded. Operators are requested to check the IPC for delivered parts which differ from those listed in the Service Bulletin Materials Kit List.