

Service Bulletin No: 45-016

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ATA Chapter: 45

CENTRAL MAINTENANCE SYSTEM - CENTRAL COMPUTER - UPGRADE THE HONEYWELL PRIMUS APEX OPERATIONAL SOFTWARE TO BUILD 10.14 (BUILD 11.1)**1. Planning Information****A. Effectivity**

PC-12/47E aircraft MSN 545 and MSN 1001 thru 1801.

This modification will be accomplished during production on MSN 1802.

B. Concurrent Requirements

Service Bulletin 31-018 - MSN 545, 1001 thru 1400 - Installation of New Modular Avionics Unit GIO and CSIO Modules in conjunction with Service Bulletin 46-004 - Installation of a Wireless Data Loading System (Connected Flight Deck).

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 34-035 (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 a new Nav database from INDS if they upgrade from Build 10.9 or earlier. No new Nav Database is needed when customers upgrade from Build 10.11 (Build 11).

NOTE: Customers are reminded to co-ordinate with OBDS Customer Support for a new Electronic Check List file if the aircraft file is not in line with the applicable Quick Reference Handbook revision.

C. Reason

Product improvements are introduced with Honeywell Primus APEX software Build 10.14 (Build 11.1) as follows:

- New synthetic vision radio altitude monitor used for positioning the terrain overlay on the PDF
- Improved WX radar failure monitoring.

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 10.14 (Build 11.1).

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 Authority for any changes, local regulations or sanctions that may affect the embodiment of this Service Bulletin.

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H. Manpower

Description	Total
Preparation	0.5
Modification	2.5
Close up	0.5
TOTAL MAN-HOURS	3.5

I. Weight and Balance

None.

J. Electrical Load Change Data

Not changed.

K. Software

The Honeywell Primus APEX Operational Software is updated to Build 10.14 (Build 11.1).

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-46-21-00-00A-903A-A

Tool and Equipment Manual (TEM)

12-B-45-45-00-00A-066A-A.

Honeywell Primus APEX Pilot Guide, version D201703000010 r001.

M. Publications Affected

AMM and the Honeywell Primus APEX Pilot Guide.

N. Interchangeability of Parts

Not applicable.

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

Operators that require additional information and/or Service Bulletin Material should contact their authorized Pilatus Service Center, or Pilatus Customer Support on www.pilatus-aircraft.com → contact us

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 kit are correct when the kit is dispatched. This could lead to differences between those part numbers quoted in this Service Bulletin and the kit if parts are superseded. Operators are requested to check the IPD for delivered parts which differ from those listed in the Service Bulletin Materials Kit List.

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 Centre within 12 months of the issue date of this Service Bulletin.