

Service Bulletin No: 45-015

Ref No: 368

Modification No: EC-16-0083

ATA Chapter: 45

CENTRAL MAINTENANCE SYSTEM - CENTRAL COMPUTER - UPGRADE THE HONEYWELL PRIMUS APEX OPERATIONAL SOFTWARE TO BUILD 10.11 (BUILD 11)**1. Planning Information****A. Effectivity**

PC-12/47E aircraft MSN 545 and MSNs 1001 thru 1751.

This modification will be accomplished during production on MSN 1752 and subsequent.

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 for Build 10.11 (Build 11) from INDS. The new Nav Database is necessary after this Service Bulletin has been accomplished.

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

New functionality and product improvements are introduced with Honeywell Primus APEX software Build 10.11 (Build 11):

- LP Approach (Option, refer to Service Bulletin 45-004)
- Weather radar RDR2060 added as an additional weather radar option (Option, refer to Service Bulletin 45-004 and SB 34-044).
- Default V_{SPEEDS} added to flight management window (FMW) take-off and landing pages
- Major bug fixes:
 - Primus APEX with Build 10.7 (Build 10) - Stuck/caged FMS display cursor
 - VGP approach deviation drift issue
 - Video interface inoperative on upper MFD with Build 10.7 (Build 10).
- Minor bug fixes.

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 10.11 (Build 11).

Revision 1 to this Service Bulletin adds the statement that customers must request a new Nav database for Build 10.11 (Build 11) from INDS. Customers who have embodied this Service Bulletin at an earlier revision must also incorporate Revision 1.

E. Compliance

Recommended.

NOTE: With Honeywell Primus APEX Build 10.11 (Build 11), AFM Temporary Revision 34 (Stuck/caged FMS display cursor), AFM Temporary Revision 38 (VGP approach deviation drift issue) and AFM Supplement 15 Temporary Revision No.01 (Oxygen Drop Down Mask System) can be removed.

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

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

I. Weight and Balance

None.

J. Electrical Load Data

Not changed.

K. Software

The Honeywell Primus APEX Operational Software is updated to Build 10.11 (Build 11).

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.

AFM Revision 16.

AFM TR 34, 38 and Supplement 15 TR No.01.

Honeywell Primus APEX Pilot Guide, version D201703000010 r000.

M. Publications Affected

AFM, AFM Supplement 5, Supplement 15 TR No.01, AMM 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 Centre 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 IPD for delivered parts which differ from those listed in the Service Bulletin Materials Kit List.