

Service Bulletin No: 45-012

Ref No: 322

Modification No: EC-14-0068

ATA Chapter: 45

**CENTRAL MAINTENANCE SYSTEM - CENTRAL COMPUTER - UPGRADE THE HONEYWELL PRIMUS APEX OPERATIONAL SOFTWARE TO BUILD 8.8****1. Planning Information****A. Effectivity**

PC-12/47E aircraft MSN 545 and MSNs 1001 thru 1484.

This modification will be accomplished during production on MSN 1485 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 34-035 (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 with an older Build than 8.6 are reminded to request a new Nav database 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, if the update is from Build 6 or Build 7.

**C. Reason**

Build 8.8 addresses issues to correct functionality: ADS-B Out the SDA parameter, GNSSU initialization time, AGM reset at power-up, trim actuator indication, loss of pilots settings and approach transition list truncation.

The new Honeywell Primus APEX Operational software 8.8 is compatible with all MAU (Modular Avionics Unit) hardware configurations. For the description of the changes (Reason) between different Primus Apex Software Builds, refer to:

- SB 45-005 for changes between Build 6 and Build 7
- SB 45-008 for changes between Build 7 and Build 8
- SB 45-009 for changes between Build 8 and Build 8.3.3
- SB 45-010 for changes between Build 8.3.3 and Build 8.6.
- SB 45-011 for changes between Build 8.6 and Build 8.7. Addresses incompatibility issues with the new KXP 2290A transponder required for ADS-B Out functionality. The Honeywell Primus APEX Operational Software Build 8.7 is compatible with all different MAU (Modular Avionics Unit) hardware configurations.

**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 8.8.

**E. Compliance**

Required for customers with Build 8.7; Highly recommended for customers with other Builds.

**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.

**G. Copyright**

© Pilatus Aircraft Ltd. This document contains proprietary information that is protected by copyright. All rights are reserved. No part of this document may be copied, reproduced or translated to other languages without the prior written consent of Pilatus Aircraft Ltd.

**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 8.8.

**L. References**

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

Tool and Equipment Manual (TEM): 12-B-45-45-00-00A-066A-A.

**M. Publications Affected**

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:

PILATUS AIRCRAFT LTD.,  
CUSTOMER SUPPORT MANAGER,  
CH-6371 STANS,  
SWITZERLAND

General Aviation:  
Tel: + 41 41 619 3333  
Fax: + 41 41 619 7311  
eMail: SupportPC12@pilatus-aircraft.com

PILATUS BUSINESS AIRCRAFT LTD.,  
PRODUCT SUPPORT DEPARTMENT  
11755 AIRPORT WAY  
BROOMFIELD, CO 80021.  
UNITED STATES OF AMERICA

Tel: +1 303 465 9099  
Fax: +1 303 465 6040  
eMail: Productsupport@PilBal.com

PILATUS AUSTRALIA (PTY.) LTD,  
17 JAMES SCHOFIELD DRIVE,  
ADELAIDE AIRPORT SA 5950,  
AUSTRALIA

Tel: +61 8 8238 1600  
Fax: +61 1800 PILATUS (745 2887)  
eMail: supportpc12@pilatus.com.au

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 IPC for delivered parts which differ from those listed in the Service Bulletin Materials Kit List.