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Service Bulletin No:	45-030	Ref No:	483
Modification No:	EC-23-0438	ATA Chapter:	45

CENTRAL MAINTENANCE SYSTEM - CENTRAL COMPUTER
INSTALL THE HONEYWELL PRIMUS APEX OPERATIONAL SOFTWARE BUILD 12.7.2

1. **Planning Information**

   A. **Effectivity**

   PC-12/47E aircraft MSN 1720, 2001 thru 2476.

   B. **Concurrent Requirements**

   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).

   The Service Bulletin(s) listed below should be embodied prior to, or in conjunction with, the accomplishment of this Service Bulletin:

   • Service Bulletin 45-031 (Electronic Check List update)

   C. **Reason**

   The Honeywell Primus APEX software Build 12.7.2 has the following:

   • Stall Warning and Protection System
     • Improvement to the stick pusher and pusher safe mode CAS message logic
   • Aircraft Condition Monitoring Function (ACMF)
     • Improvement to the recording function to remove gaps in the recording
   • Various bug fixes.

   D. **Description**

   This Service Bulletin gives the data and instructions necessary to install the Honeywell Primus APEX Operational Software Build 12.7.2 and a new FRED file for the Lightweight Data Recorder (LDR).

   E. **Compliance**

   Mandatory.
   To be completed at next Annual service.

   F. **Approval**

   The technical content of this document is approved under the authority of the DOA ref. 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.

G. Copyright and Legal Statement

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H. Manpower

Description	Total
Preparation	0.25
Modification	3.00
Close up	0.25
TOTAL MAN-HOURS	**3.50**

I. Weight and Balance

Not changed.

J. Electrical Load Change Data

Not changed.

K. Software

The Honeywell Primus APEX Operational Software is updated to Build 12.7.2.

L. References

Aircraft Maintenance Manual (AMM):

    12-C-06-20-00-00A-040A-A

    12-B-24-00-00-00A-901A-A   12-C-45-45-00-00A-550A-A

Tool and Equipment Manual (TEM)

    12-B-00-00-00-00A-060A-A

M.   Publications Affected

Aircraft Maintenance Manual (AMM)

Pilot Operating Handbook (POH)

Honeywell Pilot Guide for the Advanced Cockpit Environment (ACE™).

Aircraft Flight Manual Supplement (AFMS).

N.   Interchangeability of Parts

One-way Interchangeable.
Pre Service Bulletin parts must not be installed on Post Service Bulletin aircraft.

2. Material Information

A. Material - Price and Availability

Operators that require additional information and/or Service Bulletin Material can 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 are correct when dispatched. This could lead to differences between those part numbers quoted in this Service Bulletin and the delivered parts, if parts are superseded. Operators are requested to check the Illustrated Parts Data (IPD) for delivered parts that differ from those listed in the Service Bulletin Materials List.

Operators are requested to advise Pilatus Aircraft Ltd of the Manufacturer's Serial Number (MSN), the flying hours and landings of aircraft that are allocated for this Service Bulletin.

B. Warranty

(1) Pilatus will supply the required software free of charge for all affected aircraft 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.

(2) Honeywell agrees to cover the cost for labor of all 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

(1) Software to download from MyPilatus:

NOTE: To download the software go to https://my.pilatus-aircraft.com/ and go to the Downloads section.

New Part No.	Description	Old Part No.	Qty	Disp. Code	Fig	Item
985.99.12.585 (Supplier P/N EB60003299-0120 / MM60000486-021)	PRIMUS APEX SOFTWARE BUILD 12.7.2	-	1	N	-	-
531.30.12.009	FRED FILE	531.30.12.043	1	N	-	-

Disposition Codes: D - Discard / N - New / R - Return to Pilatus

(2) **Additional Material to Order**:

New Part No.	Description	Old Part No.	Qty	Disp. Code	Fig	Item
985.99.12.595 (Supplier P/N D201803000092-R005)	PILOT GUIDE, APEX B12.7.2, NGX (optional)	-	1	N	-	-

Disposition Codes: D - Discard / N - New / R - Return to Pilatus

D. **Locally Supplied Materials**

None.

E. **Tools and equipment**

NOTE: Referenced AMM procedures may contain additional tools to be used.

To identify the AGE and tools used in this procedure, look in the list of AGE and tools. Refer to TEM 12-B-00-00-00-00A-060A-A.

Tools and equipment	Recommended Pilatus part
Laptop	T45-010

3. **Accomplishment Instructions**

   A. **Preparation**

      (1) Obey the safety precautions given in the AMM 12-B-24-00-00-00A-901A-A.

      (2) Remove access panel 21QZ, refer to AMM 12-C-06-20-00-00A-040A-A.

   B. **Modification**

      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).

      NOTE: Load the new FRED file P/N 531.30.12.009 on the laptop used to download LDR data.

      NOTE: Contact Pilatus in order to receive a new Electronic Check List file (applicable when the aircraft file is not in line with the applicable Quick Reference Handbook revision).

      (1) Do a full software load to update the Honeywell Primus APEX Software to Build 12.7.2, refer to AMM 12-C-45-45-00-00A-550A-A, Para 2.

   C. **Close Up**

      (1) Remove all equipment, tools and materials from the work area. Make sure the work areas are clean.

      (2) Install access panel 21QZ, refer to AMM 12-C-06-20-00-00A-040A-A.

   D. **Documentation**

      (1) Make an entry in the Aircraft Logbook to record the incorporation of this Service Bulletin.

      (2) Make sure that the Honeywell Pilot Guide for the Advanced Cockpit Environment (ACE™) is at version D201803000092-R005 or higher.

      NOTE: A digital pdf copy is acceptable.

      (3) Make an entry in the PC-12/47E Pilot's Operating Handbook (POH), Document No. 02406 to record the incorporation of this Service Bulletin.

      (4) Insert AFM TR 32 for APEX Build 12.7.2 in the PC-12/47E Pilot's Operating Handbook (POH), Document No. 02406.

      (5) Make sure that the Aircraft Logbook shows any new Pilatus Part Number(s) and/or Serial Number(s), as applicable.

      (6) Make sure that all applicable Aircraft Documentation is updated.

      (7) Inform CAMP of the incorporation of this Service Bulletin and any new Pilatus Part Number(s) and/or Serial Number(s), as applicable. Send the completed software feedback sheet to: fax@campsystems.com.

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Software Feedback Sheet for the Accomplishment of SB 45-030

The purpose of this software feedback sheet is to provide CAMP
with the current information on each individual PC-12/47E aircraft.
Please complete the grey cells as appropriate using black ink and block letters.

Print out and send the completed feedback sheet to: fax@campsystems.com

Aircraft MSN		Aircraft Registration		Total Airframe Hours	
Service Center				Total Landings	

Software Information

	Description	**APEX Build 12.7.2**	
	CAMP Code, Task Number	**PC12A0031010-0010**	
Old Part Numbers		**New Part Numbers**	
Pilatus P/N	Supplier P/N	Pilatus P/N	Supplier P/N
-	**-**	**985.99.12.585**	**EB60003299-0120**

	Description	**CVFDR MODEL LDR1000 FRED FILE**	
	CAMP Code, Task Number	**PC12A0031010-0130**	
Old Part Numbers		**New Part Numbers**	
Pilatus P/N	Supplier P/N	Pilatus P/N	Supplier P/N
-	-	**531.30.12.009**	-

SB Accomplishment Information

We have embodied/accomplished this SB		Fully		Partially
The undersigned confirms the accomplishment of this Service Bulletin				
Date of accomplishment		Name		Signature
Comments (procedure, kit quality, suggested improvements etc.)				

CAMP Software Feedback Sheet

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