



PILATUS AIRCRAFT LTD. CH-6371 STANS, SWITZERLAND

SERVICE LETTER

SUBJECT: HONEYWELL SOFTWARE BULLETIN (SWB) TPU 66A-SW6

To all Customers and Operators:

Date: Feb 14/08

This Service Letter is issued to draw attention to the following vendor information:

HONEYWELL SWB TPU 66A-SW6 - 34 NAVIGATION - TPU 66A TCAS 1 PROCESSOR - SOFTWARE IMPROVEMENTS.

Honeywell have issued SWB TPU 66A-SW6 to incorporate software improvements in the TPU 66A TCAS 1 Processor (Part Number 066-01145-0101). The software improvements are to prevent faults when the aircraft operates in areas of high Mode S activity and to prevent spurious F8909 faults.

The SWB is optional and is applicable only to units with serial numbers 3241 and below. Units 3242 and up had the improvements incorporated during manufacture. The affected units must be removed and sent to one of the approved Honeywell facilities for modification. Full details of the modification, and Warranty information, can be found in SWB TPU 66A-SW6.

Pilatus fully supports the content of Honeywell SWB TPU 66A-SW6 as the modification improves the operation of the TCAS system.

Operators requiring further information on this subject, please contact one of the addresses given below:

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Attachments: **HONEYWELL SWB TPU 66A-SW6**

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Honeywell

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SOFTWARE BULLETIN

34 Navigation – TPU 66A TCAS I Processor – Software Improvements

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TPU 66A

Transmittal Information

Honeywell Publication Number 605-07700-0060

Summary

This is the initial release of this bulletin.

Revision History

Original issue.

Table 1. Software Bulletin Revisions

Revision	Date of Release
Initial Release	19 Dec 2007

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SOFTWARE BULLETIN

TPU 66A

1. Planning Information

A. **Effectivity**

TPU 66A TCAS I Processor, PN 066-01145-0101, serial number 3241 and below. Units with serial numbers above those stated have Software Mod 6 incorporated during original manufacturing.

B. **Concurrent Requirements**

Not applicable.

C. **Reason**

To incorporate software improvements in Software 01/14. Software 01/14 is all-inclusive and contains all the changes necessary to update any affected TPU 66A. The software improvements are as follows:

- (1) The DMA buffers are now larger. This prevents buffer overflows (F8928 and F8929) in areas of high Mode S activity (including Extended-Squitter aircraft).
- (2) The size of the squitter/dormant Mode S buffer has been doubled. This will prevent F8601 faults when the TPU 66A is working in increasingly dense Mode S airspace.
- (3) Filtering has been added to prevent spurious F8909 faults.

D. **Description**

This modification consists of reprogramming the TPU 66A with new Boot Software and new Flight software. This modification must be performed at the Honeywell facilities in Olathe, Kansas or Toulouse, France.

E. **Compliance**

Customer option.

F. **Approval**

This modification does not affect the original approval.

G. **Manpower**

Two (2.0) hours labor for unit removal and installation only.

H. **Weight and Balance**

Not applicable.

I. **Electrical Load Data**

Not applicable.

J. **Software Accomplishment Summary**

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Not applicable.

K. References

TPU 66A Component Maintenance Manual, PN 006-05339-XXX, ATA Number 34-40-02.

L. Other Publications Affected

Not applicable.

M. Interchangeability or Intermixability of Parts

Not applicable.

2. Material Information

A. Material - Price and Availability

(1) For current prices and availability of parts, refer to our current Service Parts Catalog or the BendixKing.com website, or call 1-800-757-8999.

B. Industry Support and Warranty Information

- (1) Warranty credit or payment has been authorized for the modification of any TPU 66A serial number 3241 and below. Warranty coverage for this modification expires Dec 19, 2010.
- (2) To receive warranty credit or payment for this modification, submit a properly completed warranty claim. A maximum of two (2.0) hours labor for removal and re-installation may be requested.

C. Material Necessary for Each Component

The parts needed to modify any number of TPU 66A TCAS I Processors according to this software bulletin are listed below:

<u>Part Number</u>	<u>Description</u>	<u>Qty</u>
057-05287-0011	Software Mod Tag	1 ea
225-00001-0014	TPU 66A Application Diskette	1 ea
225-00006-0001	TPU 66A Boot Image Diskette	1 ea

D. Material Necessary for Each Spare

Not applicable.

E. Reidentified Parts

Not applicable.

F. Tooling - Price and Availability

Not applicable.

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3. Accomplishment Instructions

A. Disassembly

CAUTION: ANY DISASSEMBLY OR ASSEMBLY OF THE TPU 66A MUST BE DONE AT A STATIC-SAFE WORKSTATION. REMOVED MODULES SHOULD BE PLACED IN STATIC-SAFE BAGS WHEN NOT INSTALLED IN THE UNIT.

Disassemble the unit according to the procedures in the DISASSEMBLY section of the Component Maintenance Manual to access the Computer Board.

B. Modification Procedure

- (1) On the Computer Board, connect a jumper wire from the CAL test point to the GND test point, or set the CAL ENABLE switch on the test fixture to ON.
- (2) Connect a jumper wire from the +5V test point to the BOOT test point.
- (3) Connect a jumper wire from the VPP test point to the BOOT test point.
- (4) Access the **TPU 66A/67A UPLOAD SOFTWARE OR BOOT SELECTION** page on the computer.
- (5) Select the option **Upload TPU 66A/67A Current SW Release from Floppy Drive**.
- (6) Insert the Boot Image diskette, PN 225-00006-0001, into the floppy drive.
NOTE: The Boot Software diskette MUST be loaded before the Flight Software diskette.
- (7) Follow the on-screen prompts and allow the software to load.
- (8) When the software is loaded, verify that the 7-segment display flashes:

U P L O A d E d
- (9) When prompted to **<ESC> to continue**, press Esc.
- (10) Using the switch on the unit rack, turn the unit power OFF.
- (11) Remove the jumper wire connected between the VPP test point and the BOOT test point.
- (12) Turn the unit power ON.
- (13) Select the option **Upload TPU 66A/67A Current SW Release from Floppy Drive**.
- (14) Insert the Application Software diskette, PN 225-00001-0014, into the floppy drive.

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- (15) Follow the on-screen prompts and allow the software to load. The upload will take 2-5 minutes.
- (16) When **<ESC> to continue** flashes on the screen and **U P L O A d E d** flashes on the fault code 7-segment display, the upload is done. Press Esc.
- (17) Using the switch on the unit rack, turn unit power OFF.
- (18) Remove the jumper wire from the CAL test point to the GND test point or set the CAL ENABLE switch on the test fixture to OFF.
- (19) Disconnect the jumper wire from the +5V test point to the BOOT test point.
- (20) Click the **EXIT** button in the lower right corner of the Upload Flight Software dialog box to return to the main test window.

C. Reassembly

Reassemble the unit according to the procedures in the ASSEMBLY section of the Component Maintenance Manual.

D. Identification

Replace the unit Software Mod tag with Software Mod tag, PN 057-05287-0114, to indicate SW MOD 01/14 has been installed.

E. Testing

Test the unit according to the TESTING AND TROUBLESHOOTING section of the Component Maintenance Manual.

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