

Service Bulletin No: 34-028

Ref No: 263

Modification No: EC-10-0494

ATA Chapter: 34

**NAVIGATION - ATTITUDE AND DIRECTION
REPLACE THE AIR DATA, ATTITUDE AND HEADING REFERENCE SYSTEM (ADAHRS)****1. Planning Information****A. Effectivity:**

All PC-12/47E aircraft MSN 545 and MSN 1001 thru MSN 1270.

This modification will be incorporated during production on MSN 1271 and subsequent.

All KSG 7200, Honeywell P/N 065-00188-5103 (MOD 2) held as spare or in stock.

B. Concurrent Requirements

This Service Bulletin has been superseded by Service Bulletin 34-033 (Navigation - Attitude and Direction - Replace the Air Data, Attitude and Heading Reference System (ADAHRS)).

For aircraft MSN 545 and MSN 1001 thru 1180, Service Bulletin 34-022 (Upgrade the Air Data, Attitude and Heading Reference System (ADAHRS) to -205 standard) must be accomplished previously, or simultaneously to, this Service Bulletin.

NOTE: If you will do Service Bulletin 34-022 simultaneously to this Service Bulletin, install the ADAHRS KSG 7200 Honeywell P/N 065-00188-5103 (MOD 3) (Pil P/N 985.99.12.220). If you install the ADAHRS KSG 7200 Honeywell P/N 065-00188-5103 (MOD 3) (Pil P/N 985.99.12.220), make sure you make an entry in the aircraft flight log that Service Bulletin 34-022 and Service Bulletin 34-028 (Part B) have been incorporated.

C. Reason**(1) Problem:**

Production flight test reports have indicated that there is a possibility that one or both ADAHRS channels may fail to provide attitude data in some PC-12/47E aircraft equipped with the KSG 7200 ADAHRS. The failure may occur during high speed descents (above 180 KIAS) with gear down and a simultaneous turn. In all cases the failure is appropriately flagged. The failures are covered by the relevant procedures within the AFM which require the pilot to refer to the ESIS and to select the opposite ADAHRS channel as required. The ESIS, as an independent system to the ADAHRS, is not affected by this failure.

(2) Solution:**(a) Part A:**

- Put the Temporary Revision TR 17 into the PC-12/47E AFM (Report No. 02277).

(b) Part B:

- Install an updated ADAHRS KSG 7200, Honeywell P/N 065-00188-5103 (HW MOD 3) (Pilatus P/N 985.99.12.220).

D. Description

This Service Bulletin gives the data and instructions necessary to:

For Part A:

- Put the Temporary Revision TR 17 into the PC-12/47E AFM (Report No. 02277).

For Part B:

- Replace an installed ADAHRS unit with a Honeywell P/N 065-00188-5103 (HW MOD 3) (Pilatus P/N 985.99.12.220) unit.

Revision No, 1 of this Service Bulletin is issued to tell Operators that it has been superseded by Service Bulletin 34-033 (Navigation - Attitude and Direction - Replace the Air Data, Attitude and Heading Reference System (ADAHRS)).

E. Compliance

Mandatory.

For Part A:

- Compliance time is one calendar month from the date of issue of this Service Bulletin.

For Part B:

- Compliance time is three years from the date of issue of this Service Bulletin.

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

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H. Manpower

Task	Man-hours (Part B)
Replacement and test	8.0
TOTAL MAN-HOURS	8.0

I. Weight and Balance**(1) Weight Change**

Not changed

(2) Balance Change

Not changed

J. Electrical Load Data

Not changed.

K. Software

Not changed.

L. References

Aircraft Maintenance Manual (AMM): 12-B-34-25-01-00A-920A-A

M. Publications Affected

Part A: Insert TR No. 17 into the Aircraft Flight Manual (AFM)

Part B: Remove TR No. 17 from the AFM, once Part B of this Service Bulletin has been incorporated.

N. Interchangeability of Parts:

One way interchangeable. A pre-Service Bulletin 34-028 ADAHRS unit must not be installed in a post-Service Bulletin 34-028 aircraft.

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

Pilatus advise Operators of two options being available to get the new part number unit:

- (1) Return the existing unit to Honeywell (Olathe, Kansas) for upgrade.
Please contact Norma Fair (norma.fair@honeywell.com) on +1 913 712 5539 for scheduling, Return Material Authorization and to get an estimate of turn-around time.
- (2) Order a replacement unit with the new part number from the SPEX pool.
Due to the availability of parts, this option may only be used when the existing unit is not serviceable or if the downtime of the aircraft does not allow for Option a).

Please note that the KSG 7200 ADAHRS (P/N 065-00188-5103) installed on the PC-12/47E falls under International Trade Restrictions and is regulated by the United States Department of Commerce export compliance rules.

Operators who require additional information should contact their Authorized Pilatus Service Center:

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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 parts and labor of affected aircraft on approval of a warranty claim, provided the work is accomplished by an appropriately rated Honeywell Service Center within 36 months of the issue date of this Service Bulletin. A properly completed warranty claim may be filed by accessing the Honeywell Aerospace web page at: <https://portal.honeywell.com/wps/portal/aero/serviceprograms/warranty> and selecting the Bendix King logo.