

FOR PLANNING PURPOSES

SERVICE BULLETIN

SERVICE BULLETIN NO: 34-002

REF NO: 018

MODIFICATION NO: 960298

ATA CHAPTER: 34

SUBJECT: INSTALLATION OF A SECOND ATTITUDE AND HEADING REFERENCE SYSTEM (AHRS 2)

1. Planning Information

A. Effectivity

All aircraft which do not have a second AHRS installed.

B. Reason

To add a second independent attitude and heading reference source for the flight instruments and auto flight system.

C. Description

Accomplishment of this Service Bulletin consists of completing the following tasks:

- (1) Installation of an additional flux valve in the RH wing.
- (2) Installation of a second Attitude and Heading Reference Unit (AHRU 2) between Frames 25 and 26.
- (3) Installation of a new AHRS switching relay between Frames 25 and 26.
- (4) Installation of:
 - (a) A new switch (AHRS 1/ AHRS 2) on the pilots instrument panel (for total system switching).
 - (b) A new switch (AHRS 1/ AHRS 2) on the Co-pilot's instrument panel (for EFIS data switching only).
- (5) The exchange of the RH outer crossbar panel and installation of 2 new switches (AHRS - DG/SLAVE and CW/CCW) on the panel.
- (6) Installation of new AHRS 2 circuit breakers on the AVIONICS 1 and AVIONICS 2 circuit breaker panels:
- (7) Installation of new cable harnesses:
 - (a) In the fuselage between AHRU 2 and its DC power supplies, control switches and user systems.
 - (b) Between AHRU 2 and the flux valve in the RH wing.
 - (c) Between AHRU 1, AHRU 2 and the new switching relay (a Y-harness for AHRS switching).
- (8) In some aircraft (when necessary); relocation of the NAV converter (installed between Frame 25 and 26) to allow the installation of AHRU 2.

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D. Compliance

Optional - at Customer request.

E. Approval

The technical aspects of this Service Bulletin have been approved by the Federal Office for Civil Aviation (FOCA) of Switzerland.

NOTE: 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.

F. Manpower

Task	Man-hours
Preparation	2.00
Installation of Flux Valve (RH Wing)	2.00
Installation of AHRS 2 in Fuselage	2.00
Installation of Switching Relay Mounting	1.00
Modification of the Wiring	10.00
Test	3.00
Close-Up	2.00
TOTAL MAN-HOURS	22.00

NOTE: Man-hours figures are calculated for units installed in the aircraft and represent the total time estimated for the task.

G. Material - Cost and Availability

(1) Material

Operators should contact your Authorized PILATUS PC-12 Service Center or send an order, for this Service Bulletin modification kit, to:

PILATUS AIRCRAFT LTD,
CUSTOMER LIAISON MANAGER
CH 6371 STANS,
SWITZERLAND.

Tel No: +41 41-6196 233
Fax No: +41 41-6103 351

NOTE: Operators are requested to advise Pilatus Aircraft Ltd. of the Manufacturers Serial Number (MSN) and the flying hours of the aircraft which are allocated for this Service Bulletin.

(2) Cost and Availability

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H. Tooling

Spirit Level.

I. Weight and Balance

Increases by 2.540 kg (MASS) x 6.970 m (ARM).

J. References

AMM, Chapters 06-20-00, 24-00-00, 25-24-02, 34-25-00, 34-25-02.

IPC, Chapters 34-20-00, 34-50-00.

WDM, Chapter 30-30-00, 34-25-00, 34-25-10, 34-25-20.

K. Publications Affected

AMM, Chapters 34-25-00, 34-25-02.

IPC, Chapters 34-20-00, 34-50-00.

WDM, Diagrams 34-25-00, 34-25-10, 34-25-20.