

FOR PLANNING PURPOSES

SERVICE BULLETIN

SERVICE BULLETIN NO: 21-005

REF NO: 106

MODIFICATION NO:

ATA CHAPTER: 21

AIR CONDITIONING - ENVIRONMENTAL CONTROL SYSTEM INSTALLATION OF ENVIRONMENTAL CONTROL SYSTEM VIBRATION ISOLATORS

1. Planning Information

A. Effectivity

All PC-12 and PC-12/45 aircraft from MSN 101 up to and including MSN 320.

This Service Bulletin will be incorporated prior to delivery on aircraft MSN 321 and subsequent.

B. Concurrent Requirements

None

C. Reason

(1) Problem

On some aircraft the turbine in the cold air unit of the Environmental Control System (ECS) has failed after an unusually short time.

(2) Cause

The propeller can cause vibration levels on the engine cowling. These vibrations are transferred through the existing support brackets of the ECS and can damage the turbine of the cold air unit causing it to fail.

(3) Solution

New support brackets with anti-vibration mounts are fitted to reduce the level of vibration.

D. Description

This Service Bulletin covers the procedures required to get access to remove the old support brackets of the ECS and install new brackets.

E. Compliance

Recommended.

NOTE: Credit will be issued for aircraft in the Base Warranty Period (first or second year as applicable) upon approval of a warranty claim to accomplish this Service Bulletin, provided that the work is accomplished within six (6) months from the effective date of this Service Bulletin.

Operators that do not accomplish this Service Bulletin will no longer receive warranty consideration for failures to their ECS turbine assemblies caused by vibration damage.

F. 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.

G. Manpower

	Total
Preparation	1.0
Remove the old support brackets	0.5
Install the new support brackets	0.5
Install the heat exchanger	0.5
Close up	2.0
TOTAL MAN-HOURS	4.5

NOTE: Man-hours figures do not include the time required to cure sealants and adhesives.

H. Weight and Balance

(1) Weight Change

Not affected.

(2) Moment Change

Not affected.

I. Electrical Load Data

Not changed.

J. Software

Not changed.

K. References

Aircraft Maintenance Manual (AMM), Chapter 21-40-10.

Illustrated Parts Catalog (IPC), Chapter 21-40-00.

L. Publications Affected

Illustrated Parts Catalog (IPC), Chapter 21-40-00.

M. Interchangeability of Parts

Both support brackets of the ECS must be replaced. It is not permitted to install one pre and one post SB support bracket.

2. Material Information

A. Material - Price and Availability

Operators should send orders for Service Bulletin modification kits, to their Authorized Pilatus Service Center, or to:

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

or PILATUS BUSINESS AIRCRAFT LTD.,
PRODUCT SUPPORT DEPARTMENT,
11755 AIRPORT WAY,
BROOMFIELD, CO 80021.
USA

Tel : + 41 41 619 6319 (General aviation)

Tel : + 41 41 619 6509 (Government)

Fax: + 41 41 619 6224

Tel : 303 465 9099

Fax: 303 465 6040

NOTE: Operators are requested to advise Pilatus Aircraft Ltd, using the Service Bulletin Evaluation Sheet, of the Manufacturer's Serial Number (MSN) and the flying hours of aircraft which are allocated for this Service Bulletin.