

# SERVICE BULLETIN

SERVICE BULLETIN NO: 53-008

REF NO: 64

MODIFICATION NO: INSPECTION

ATA CHAPTER: 53

## FUSELAGE ENGINE MOUNTING-FRAME ATTACHMENT-FITTINGS - INSPECTION

### 1. Planning Information

#### A. Effectivity

All PC-7 MkII aircraft with more than 5 years in service or more than 5,000 flying hours.

#### B. Concurrent Requirements

None

#### C. Reason

##### (1) Problem

Corrosion has been found on the bolts and in the bores of the attachment fittings for the engine mounting frame.

##### (2) Cause

Damage to the cadmium plating of the bolt, or to the surface finish of the attachment fitting, can cause corrosion. The damage is caused when the bolts are removed and installed.

##### (3) Solution

A one time inspection of the attachment fittings and bolts, and the installation of new bolts and washers. The AMM Chapters 05-05-01 Airworthiness Limitations List and 05-12-01 Master Maintenance Plan will be revised to include repeat inspections.

#### D. Description

This Service Bulletin gives the data and instructions necessary to:

- Remove the attachment bolts and washers
- Do a visual inspection of the removed attachment bolts for corrosion
- Do a visual (boroscope) inspection of the attachment brackets for corrosion
- Install new attachment bolts and washers.

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**PC-7 MK II**  
**SERVICE BULLETIN**

**E. Compliance**

Mandatory.

For aircraft with more than 5 years in service or more than 5,000 flying hours this Service Bulletin must be accomplished within 6 months of the issue date of this Service Bulletin.

**F. Approval**

The technical content of this document is approved under FOCA accepted procedures.

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      |
|------------------------|------------|
| Removal                | 1.5        |
| Inspection             | 1.0        |
| Installation           | 2.0        |
| <b>TOTAL MAN-HOURS</b> | <b>4.5</b> |

**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) Chapters 20-31-00 and 71-20-01.

**L. Publications Affected**

AMM Chapters 05-05-01 and 05-12-01.

**M. Interchangeability of Parts**

Not applicable.

# PILATUS PC-7 MK II SERVICE BULLETIN

## 2. Material - Price and Availability

Operators should send orders for Service Bulletin kits to:

PILATUS AIRCRAFT LTD,  
CUSTOMER LIAISON MANAGER,  
CH 6371 STANS,           Tel: +41 41 619 62 26(Government)  
SWITZERLAND            Fax: +41 41 619 61 70.

| Kit Number    | Price *               | Availability          |
|---------------|-----------------------|-----------------------|
| 500.50.09.053 | Contact address above | Contact address above |

### A. Material Necessary for Each Aircraft

#### (1) Material to be Purchased

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 number of items, delivered with the kit, are correct when the kit is dispatched which could lead to differences between those quoted in this Service Bulletin and the kit.

Kit No. 500.50.09.053 consists of these parts:

| New Part No.  | Description   | Old Part No.  | Qty | Disp. Code | Fig | Item |
|---------------|---------------|---------------|-----|------------|-----|------|
| 571.20.09.031 | Bolt, Tension | 571.20.09.031 | 4   | D          | -   | -    |
| 938.75.11.105 | Washer        | 938.75.11.105 | 4   | D          | -   | -    |

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

#### (2) Operator Supplied Tools

| Part No. | Description | Remarks |
|----------|-------------|---------|
| -        | Boroscope   |         |

#### (3) Operator Supplied Materials (Ref. AMM 20-31-00).

| Material No. | Description     | Qty | Remarks |
|--------------|-----------------|-----|---------|
| P01-008      | Solvent         | A/R |         |
| P02-002      | Aluminum wool   | A/R |         |
| P02-031      | Absorbent Paper | A/R |         |
| P07-001      | CCC Solution    | A/R |         |

### B. Material Necessary for Each Spare

Not applicable.

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**PC-7 MK II**  
**SERVICE BULLETIN**

**C. Re-identified Parts**

Not applicable.

**D. Tooling - Cost and Availability**

Not applicable.

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**PC-7 MK II**  
**SERVICE BULLETIN**

**3. Accomplishment Instructions**

**A. Inspection/Repair (Ref. Fig 1)**

**WARNING:** TO PREVENT INJURY TO PERSONNEL, AND DAMAGE TO EQUIPMENT, YOU MUST ONLY REMOVE ONE BOLT AT A TIME.

**NOTE:** It is not necessary to remove the barrel nut to do the inspection.

- (1) Remove the bolt and washer from one of the four engine mounting-frame attachment points (Ref. AMM 71-20-01, Page Block 401).
- (2) Do a visual inspection for corrosion on the removed bolt.
- (3) Do a visual inspection for corrosion in the bore of the attachment fitting. Do this with a boroscope. If you find corrosion, do the subsequent steps:

**CAUTION:** WHEN YOU REMOVE CORROSION YOU MUST MAKE SURE YOU REMOVE ALL SWarf AND DEBRIS FROM THE AREA OF THE ATTACHMENT FITTING. IF NECESSARY YOU MUST REMOVE THE BARREL NUT AND/OR THE ENGINE MOUNTING FRAME TO DO THIS.

- (a) Use aluminum wool (Material No. P02-002) to remove surface corrosion.
- (b) If you cannot remove all of the corrosion contact Pilatus for repair information.
- (c) Clean the bore and the threads of the barrel nut with solvent (Material No. P01-008) and absorbent paper (Material No. P02-031).
- (d) Remove all swarf and debris from the attachment fitting. If necessary, you must remove the barrel nut and/or the engine mounting frame to do this. Make sure there is no swarf and debris in the joints between:
  - The attachment fitting and the barrel nut
  - The attachment fitting and the engine mounting frame.
- (e) Apply a layer of CCC solution (Material No. P07-001) to the bore.
- (f) If necessary, install the barrel nut and/or the engine mounting frame.
- (4) Install the new bolt (P/N 571.20.09.031) and the washer (P/N 938.75.11.105) (Ref. AMM 71-20-01, Page Block 401).
- (5) Do the procedure for each attachment point in turn.

**B. Reporting Action**

- (1) If you cannot remove all of the corrosion using the procedure given in Para 3.A.(3), contact Pilatus for repair information.

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**PC-7 MK II**  
**SERVICE BULLETIN**

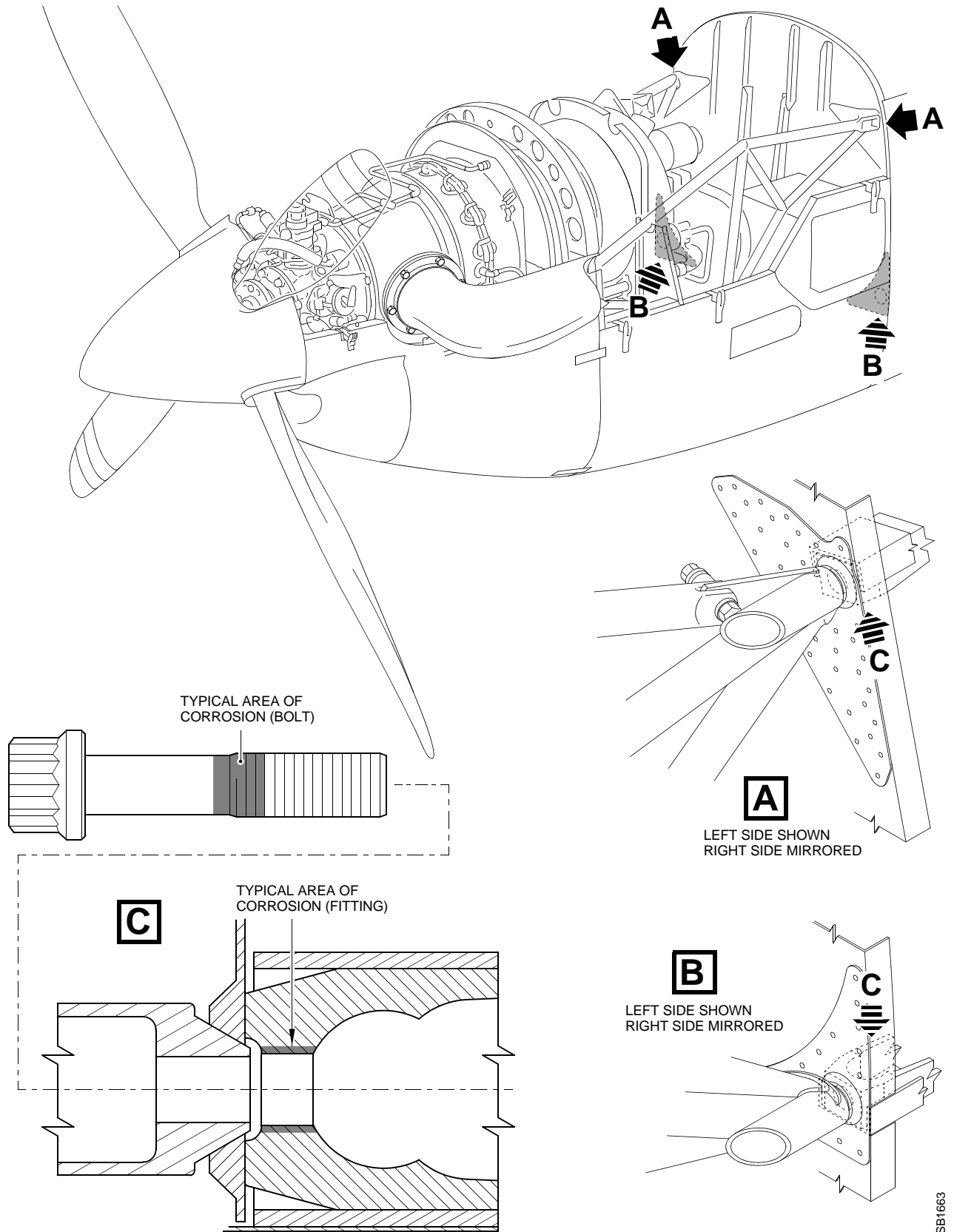
**C. Documentation**

Make an entry in the Aircraft Logbook that this Service Bulletin has been incorporated.

**4. Accomplishment Instructions - Spares**

Not applicable.

# PILATUS PC-7 MK II SERVICE BULLETIN



Engine Mount Attachment Fittings - Inspection/Repair  
Figure 1

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**SERVICE BULLETIN**

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