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DATE: Apr.14/11

V2500-A1/A5/D5 SERIES PROPULSION SYSTEMS SERVICE BULLETIN

This document transmits the Initial Issue of Non-Modification Service Bulletin V2500-ENG-72-0621.

Non-Modification Service Bulletin Initial Issue

| Remove | Incorporate                                            | Reason for change |
|--------|--------------------------------------------------------|-------------------|
|        | Pages 1 to 9 of the Non-Modification Service Bulletin. | Initial Issue.    |
|        | Page 1 of the Appendix.                                | Initial Issue.    |

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Transmittal - Page 1 of 1

CHECK THAT ALL PREVIOUS TRANSMITTALS HAVE BEEN INCORPORATED  
If any have not been received please advise IAE International Aero Engines AG

NON-MODIFICATION SERVICE BULLETIN – INSPECTION OF THE NO.4 BEARING ASSEMBLY PRESSURE TUBE PROFILE

1. Planning Information

A. Effectivity

(1) Airbus A319

(a) V2522-A5, V2524-A5, V2527M-A5 (A5 Standard)

Engine Serial Nos. – As specified in Table 1

(2) Airbus A320

(a) V2500-A1

Engine Serial Nos. – As specified in Table 1

(b) V2527-A5, V2527E-A5 (A5 Standard)

Engines Serial Nos. – As specified in Table 1

(3) Airbus A321

(a) V2530-A5, V2533-A5 (A5 Standard)

Engine Serial Nos. – As specified in Table 1

(4) Boeing MD-90

(a) V2525-D5, V2528-D5

Engine Serial Nos. – As specified in Table 1

Table 1  
Engine Serial Numbers for Engines with Suspect Tubes Installed

|        |        |        |        |        |        |
|--------|--------|--------|--------|--------|--------|
| V0032  | V10414 | V11117 | V11604 | V12081 | V20234 |
| V10020 | V10448 | V11146 | V11678 | V12094 | V20285 |
| V10042 | V10457 | V11169 | V11681 | V12609 |        |
| V10044 | V10554 | V11193 | V11688 | V12945 |        |
| V10057 | V10589 | V11213 | V11723 | V12977 |        |
| V10089 | V10621 | V11216 | V11765 | V20005 |        |
| V10115 | V10683 | V11246 | V11798 | V20009 |        |
| V10139 | V10762 | V11251 | V11799 | V20013 |        |
| V10163 | V10769 | V11255 | V11873 | V20014 |        |
| V10259 | V10783 | V11286 | V11922 | V20021 |        |
| V10288 | V10838 | V11305 | V11923 | V20022 |        |
| V10302 | V10848 | V11343 | V11925 | V20035 |        |

|        |        |        |        |        |
|--------|--------|--------|--------|--------|
| V10311 | V10877 | V11395 | V11927 | V20036 |
| V10316 | V10879 | V11447 | V11933 | V20070 |
| V10318 | V10992 | V11528 | V11973 | V20090 |
| V10324 | V11019 | V11531 | V11988 | V20092 |
| V10327 | V11050 | V11532 | V11990 | V20108 |
| V10347 | V11055 | V11540 | V12007 | V20112 |
| V10404 | V11063 | V11560 | V12066 | V20225 |
| V10411 | V11103 | V11571 | V12079 | V20231 |

**B. Concurrent Requirements**

There are no concurrent requirements.

**C. Reason/Condition****(1) Condition:**

There is a suspect population of 102 No.4 bearing assembly pressure tubes that can have discrepant profiles which hinder form, fit and function. The form, fit and function non-conformances do not satisfy the established Final Acceptance Inspection (FAI) criteria.

**(2) Background:**

Form, fit, and function non-conformances were inadvertently introduced during tube modification or repair.

**(3) Objective:**

Send No.4 Bearing Assembly Pressure Tubes, PN 2A4256-01 or PN 2A2493-01 to the vendor identified in the Accomplishment Instructions of this Non-Modification Service Bulletin for inspection. The vendor will determine if tubes are serviceable or unserviceable. Serviceable tubes will be returned for continued service. Unserviceable tubes must be replaced with new No.4 Bearing Assembly Pressure Tubes, PN 2A4256-01 or must be repaired.

**(4) Effect of Bulletin on:****(a) Removal/Installation**

Not affected.

**(b) Assembly/Disassembly**

Not affected.

**(c) Cleaning**

Not affected.

## (d) Inspection/Check

Not affected.

## (e) Repair

Not affected.

## (f) Testing

Not affected.

## (5) Supplemental Information

None.

D. Description

Send the No.4 bearing assembly pressure tubes identified in the Effectivity Section of this Non-Modification Service Bulletin to a vendor for disposition.

E. Compliance

## Category 6

Accomplish when the subassembly (i.e. modules, accessories, components, build groups) is disassembled sufficiently to afford access to the affected part and to all affected spare parts.

F. Approval Data

The compliance statement and the procedures described in this Service Bulletin have been shown to comply with the applicable Federal Aviation Regulations and are FAA-APPROVED for the engine model listed.

G. Manpower

## (1) In Service

Not applicable.

## (2) At Overhaul

Not applicable.

H. Weight and Balance

## (1) Weight Change

None.

(2) Moment Arm

No effect.

(3) Datum

Engine Front Mount Centerline (Power Plant Station (PPS) 100).

I. Electrical Load Data

This Service Bulletin has no effect on the aircraft electrical load.

J. Software Accomplishment Summary

Not applicable.

K. References

(1) IAE V2500 Service Bulletin V2500-ENG-72-0592 Engine - Tube, No. 4 Bearing Assembly Pressure - Modification To Prevent Cracking Of Weld Repaired Parts.

(2) Internal Reference No. - IEN 10VC292, IEN 10VC292A, IEN 10VC292B.

(3) ATA Locator - 72-42-20.

L. Other Publications Affected

Not applicable.

M. Interchangeability of Parts

Not applicable.

N. Information in the Appendix

Alternate Accomplishment Instructions (No)

Progression Charts (No)

Added Data (Yes)

Revision to Table of Limits (No)

Inspection Procedures (No)

## 2. Material Information

### A. Material – Price and Availability

Not applicable.

### B. Industry Support Program

Not applicable.

### C. The material data that follows is for each engine.

This Non-Modification Service Bulletin is for disposition only.

### D. Instruction/Disposition Code Statements:

Parts Modification Conditions

Not applicable.

Spare Parts Availability

Not applicable.

Cleaning, Inspection and Repair Information

Not applicable.

### E. Tooling – Price and Availability:

Special tools are not required to accomplish this Non-Modification Service Bulletin.

### F. Reidentified Parts:

Not applicable.

### G. Other Material Information Data:

Not applicable.

### 3. Accomplishment Instructions

#### A. Assembly Instructions

- (1) Send your No.4 Bearing Assembly Pressure Tube, PN 2A4256-01 or PN 2A2493-01 to the following vendor for inspection. See Figure 1 for the location of the tube.

International Aerospace Tubes – Asia Pte. Ltd.

32 Loyang Drive – Mail Stop 997-00

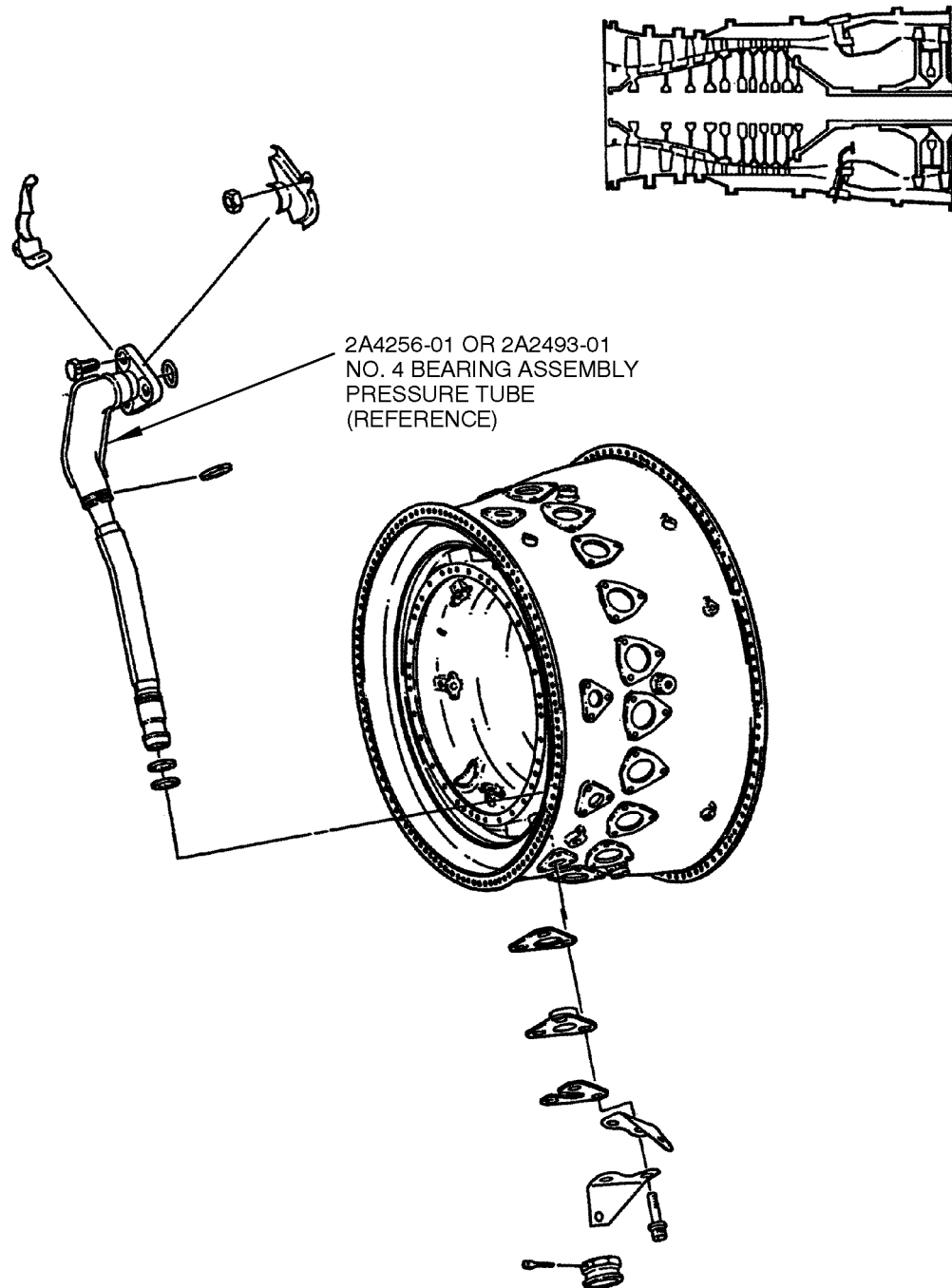
Singapore 508964

Repair License: IIBY807X

- (2) While sending the part to the vendor, specify that the tube is being sent for disposition per Non-Modification Service Bulletin No. 72-0621.
- (3) Vendor will perform visual and dimensional inspection to determine whether the part is serviceable. See Vendor Flowchart 1, Figure 2 and Vendor Flowchart 2, Figure 3 for necessary actions depending on the part numbers.

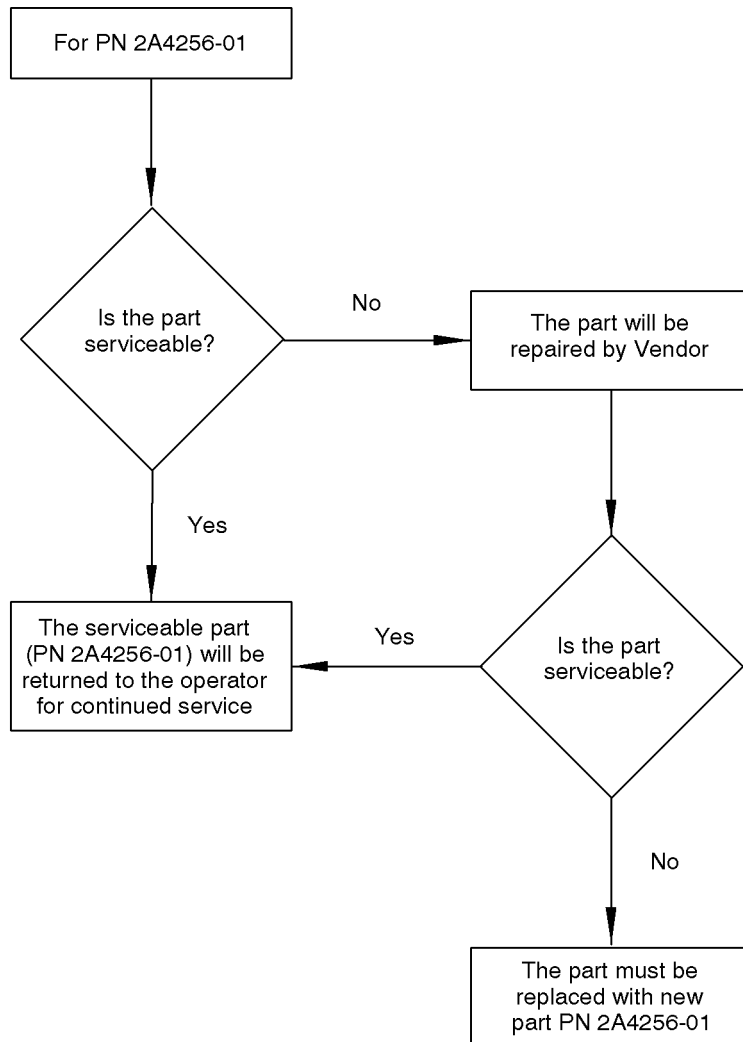
#### B. Recording Instructions

- (1) A record of accomplishment is required.



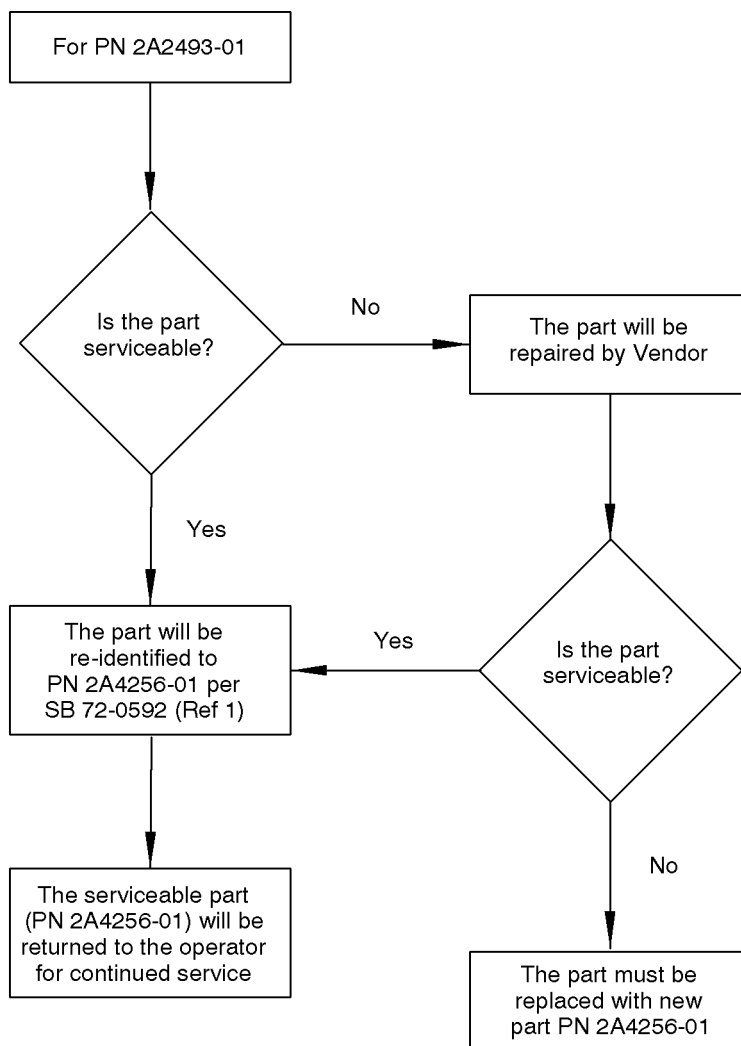
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Location of the N0.4 Bearing Assembly Pressure Tube  
72-42-20  
Figure 1



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Vendor Flowchart 1  
Figure 2



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Vendor Flowchart 2  
Figure 3

APPENDIXAdded Data

| Revision No. | Reference Document                       | Origination |
|--------------|------------------------------------------|-------------|
| Original     | IEN10VC292<br>IEN10VC292A<br>IEN10VC292B | JK/JDH      |