



International Aero Engines SERVICE BULLETIN

**ENGINE - LP COMPRESSOR - INCORPORATION OF STRONGER
BOLTS FOR THE LPC BLEED DUCT TO FAN FRAME**

MODEL APPLICATION

V2500-A1

BULLETIN INDEX LOCATOR

72-32-00

Compliance Category Code

5

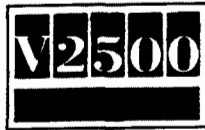
Internal Reference No.

EC97VJ019

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1. Planning Information

A. Effectivity

(1) Aircraft:

(a) Airbus A320

(2) Engine:

(a) V2500-A1 Engines prior to Serial Number V0362

B. Concurrent Requirements

None.

C. Reason

(1) Condition

The extension of bolts which join the LPC bleed duct and the fan frame was experienced on a V2500-A1 engine that had a Fan blade-off.

(2) Background

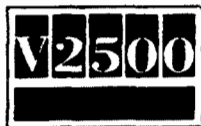
Analysis shows that the fan blade-off load causes the extension of the bolt.

(3) Objective

The purpose of this Service Bulletin is to prevent the bolt from extending in the unlikely event of another Fan blade-off incident.

(4) Substantiation

A satisfactory engineering analysis have been done on the change introduced by this Service Bulletin.



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(5) Effects of Bulletin on workshop procedure:

Removal/Installation	Not affected
Disassembly/Assembly	Not affected
Cleaning	Not affected
Inspection/Check	Not affected
Repair	Not affected
Testing	Not affected

(6) Supplemental Information

None.

D. Description

The changes introduced by this Service Bulletin are follows:

The material of bolts that connect the LP bleed duct to the fan frame has been changed from steel to nickel alloy.

E. Approval

The part number changes and/or part modifications are given in Section 2 and 3 of this Service Bulletin. They obey the applicable Federal Aviation Regulations and are FAA-APPROVED for the engine model listed.

F. Compliance

Category Code 5

Accomplish when the engine is disassembled sufficiently to get access to the affected subassembly (i.e. Modules, Accessories, Components, Build Groups) and to all affected spare subassemblies.

G. Manpower

Estimated Man-hours to incorporate the full intent of this Bulletin:

Venue

Estimated Man-hours

(1) In service

Not applicable

(2) In shop

No additional time is necessary to
Minutes do this Service Bulletin

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NOTE: It is possible to get access to the parts affected by this Service Bulletin.

H. Material - Price and Availability

- (1) Modification kit is not required.
- (2) See "Material Information" section for prices and availability

I. Tooling - Price and Availability

Special tools are not required to accomplish this Service Bulletin.

J. Weight and Balance

- | | | | |
|-------------------|----|----|--|
| (1) Weight change | .. | .. | None |
| (2) Moment arm | .. | .. | Not effect |
| (3) Datum | .. | .. | Engine front mount
centerline(Power Plant
Station (PPS) 100) |

K. Electrical Load Data

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

L. References

- (1) V2500 Engine Manual, Chapter/Section, 72-32-00, Assembly-08, Config-1 or Config-2.
- (2) IAE Service Bulletin No. V2500-ENG-72-0290 ENGINE - HP SYSTEMS MODULE INSTALLATION PARTS - INTRODUCTION OF STRONGER BOLTS FOR THE HP COMPRESSOR TO INTERMEDIATE CASE FLANGE
- (3) IAE Service Bulletin No. V2500-ENG-72-0350 ENGINE-LP. COMPRESSOR-INTRODUCTION OF NEW HIGH TENSION BOLT FOR NO.2 BEARING SUPPORT FLANGE.

M. Other Publications Affected

V2500 Engine Illustrated Parts Catalog (S-V2500-11A),Chapter/Section 72-32-00.

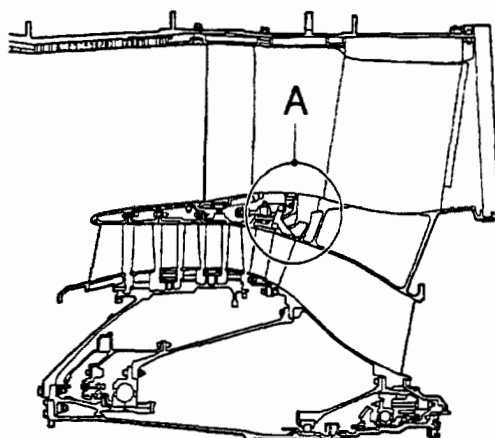
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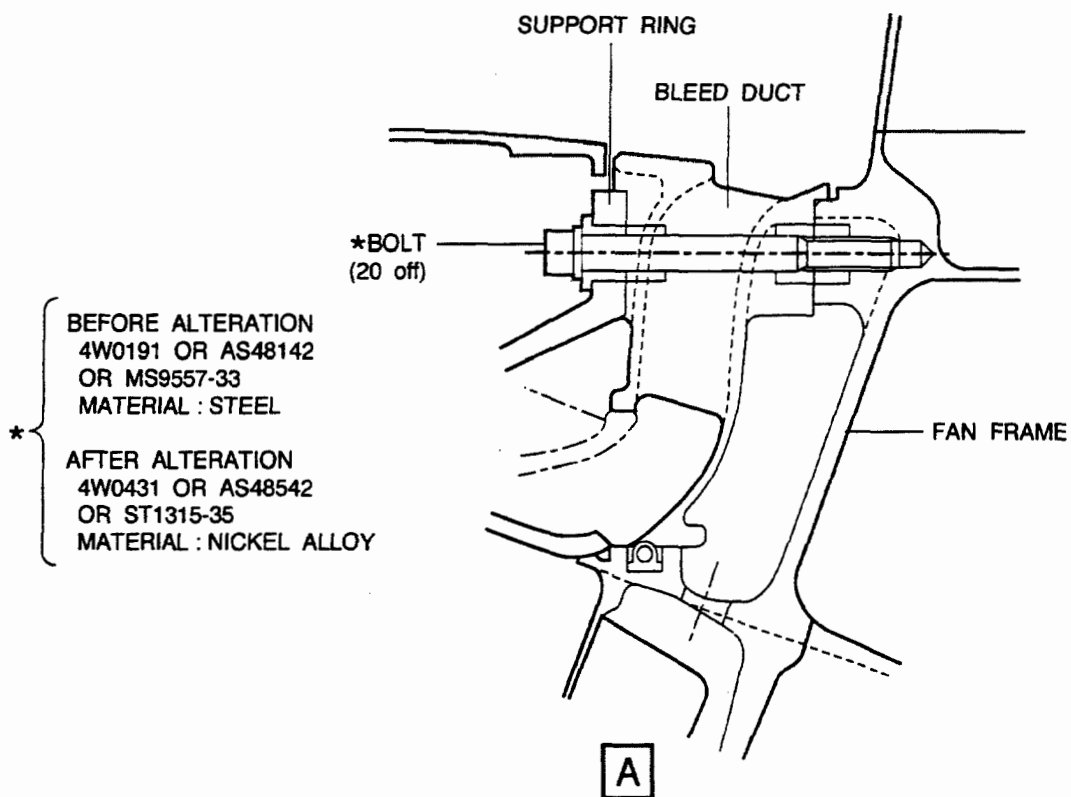
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MODULE 32



Location of the bolts that connect
the LP bleed duct to the fan frame
Figure 1

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2. Accomplishment Instructions

A. Rework Instructions

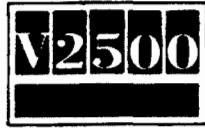
None.

B. Assembly Instructions

Install new 4W0431 (20 off) bolts, in place of 4W0191 (20 off) bolts.
Install parts per V2500 Engine Manual. (Ref. Chapter/Section, 72-32-00,
Assembly-08, Config-1 or Config-2)

C. Recording Instructions

A record of accomplishment is necessary.



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3. Material Information

Applicability: For each V2500 engine to incorporate this Service Bulletin.

A. Kits necessary for this Service Bulletin:

None.

B. Parts affected by this Service Bulletin:

New Part No. (ATA No.)	Qty	Est'd Unit Price(\$)	Keyword	Old Part No. (IPC No.)	Instruction/ Disposition
4W0431 or AS48542 or ST1315-35 (72-32-00)	20		.Bolt, 0.250 dia x 2.625 inch	4W0191 or AS48142 or MS9557-33 (01-760)	(A) (B) (S1)

NOTE: The unit prices, if shown, are an estimate and they are given for the purposes of planning only. For information about actual prices, refer to the IAE Price Catalog or contact IAE's Spare parts Sales Department.

C. Instruction/Disposition Code Statements:

- (A) New part is currently available.
- (B) Old part will no longer be available.
- (S1) Old and new part is freely and fully interchangeable both physically and functionally.

