

PUBLICATION TRANSMITTAL RR-DERBY



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DATE: Oct 13/00

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

This document transmits the Initial Issue of Service Bulletin V2500-ENG-72-0382

Bulletin Initial Issue

Remove

Incorporate
Page 1 to 7 of the
Service Bulletin

Reason for change
Initial Issue

Printed in Great Britain

V2500-ENG-72-0382

Transmittal - Page 1 of 2

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LIST OF EFFECTIVE PAGES

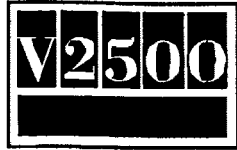
The effective pages to this Service Bulletin are as follows:

<u>Page</u>	<u>Revision Number</u>	<u>Revision Date</u>
Bulletin		
1		Oct 13/00
2		Oct 13/00
3		Oct 13/00
4		Oct 13/00
5		Oct.13/00
6		Oct 13/00
7		Oct.13/00

Printed in Great Britain

V2500-ENG-72-0382

Transmittal - Page 2



International Aero Engines

SERVICE BULLETIN

MODIFICATION SERVICE BULLETIN - ENGINE - LP COMPRESSOR - NEW FAN CASE ASSEMBLY WITH IMPROVED ACOUSTIC LINING

1. Planning Information

A Effectivity

- (1) Airbus A319
 - (a) V2522-A5, V2524-A5 Engines prior to Serial No V10901.
- (2) Airbus A319CJ
 - (a) V2527M-A5 Engines prior to Serial No V10901.
- (3) Airbus A320
 - (a) V2500-A1 Engines prior to Serial No. V0362.
 - (b) V2527-A5, V2527E-A5 Engines prior to Serial No. V10901.
- (4) Airbus A321
 - (a) V2530-A5, V2533-A5 Engines prior to Serial No. V10901.
- (5) Boeing-Douglas Product Division MD-90.
 - (a) V2525-D5, V2528-D5 Engines prior to Serial No V20286.
- (6) ATA Locator
72-32-00

B. Concurrent Requirements

None

C Reason

(1) Problem

Engine durability is being limited by fan blade and fan case assembly distress caused by release of the perforated skin of the fan case assembly. This distress is responsible for a few premature fan blade removal, and many more engines currently are on a reduce fan blade TAP inspection and acoustic lining repair interval.

(2) Evidence

The problem has been found on in-service engines.

(3) Objective

The purpose of this Service Bulletin is to improve durability.

Oct.13/00

V2500-ENG-72-0382

Page 1 of 7



International Aero Engines

SERVICE BULLETIN

(4) Substantiation

A satisfactory engineering analysis has been carried out on the changes introduced by this Service Bulletin.

(5) Effect of Bulletin on:

(a) Operation

Not affected.

(b) Maintenance

Not affected.

(c) Overhaul

Not affected.

(d) Repair Schemes

Not affected.

(e) Interchangeability

Not affected.

(f) Fits and Clearances

Not affected.

D. Description

(1) The change introduced by this Service Bulletin are as follows:

(a) The acoustic lining of the fan case assembly (P/N: 5W0171, 5W0172 and 5W0173) have changed as follows:

(i) To change the adhesive for perforated skin end of acoustic lining.

(ii) To decrease circumferential length of acoustic lining to a half of current parts.

(iii) To increase the quantity of acoustic lining to 12 from 6.

E. Compliance

Category Code 6.

This Service Bulletin can be accomplished when the subassembly (That is modules, accessories, components, build groups) is disassembled sufficiently to get access to all affected parts.

Oct.13/00

V2500-ENG-72-0382

Page 2



International Aero Engines
SERVICE BULLETIN

F. Approval

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

G. Manpower

Estimate of manhours necessary to embody this Service Bulletin in full:

(1) *In Service*

Not applicable.

(2) *At Overhaul*

No additional time is necessary to embody this modification.

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

H. Weight and Balance

(1) *Weight Change*

Plus 0.3 lb. (0,14 Kg)

(2) *Moment Arm*

No affect

(3) *Datum*

Engine front mount centreline (Power Plant Station (PPS) 100).

I. Electrical Load Data

The aircraft electrical load is not affected by this Service Bulletin.

J. Software Accomplishment Summary

Not applicable.

K. References

(1) *Internal Reference 99VJ012*

(2) *For the correct removal/installation procedures refer to:*

A1, A5 and D5 Engine Manual (EM), Chapter/Section 72-32-00, Disassembly and Assembly.



International Aero Engines
SERVICE BULLETIN

L. Other Publications Affected

- (1) Illustrated Parts Catalogue (IPC), Chapter/Section 72-32-85.
- (2) A1, A5 and D5 Engine Manual (EM), Chapter/Section 72-32-85, Cleaning/Inspection and Repair.

M. Interchangeability of Parts

Affected (refer to 2 B)



International Aero Engines
SERVICE BULLETIN

2. Material Information

A. Material - Price and availability

The prices as shown are for estimated purposes only and as such are given in good faith without commercial liability for advanced planning purposes only Refer to IAE Spares and/or current Price Catalog for current prices.

(1) Modification kit

(a) Modification kits not required. Parts supplied as single line items.

(2) Parts affected by this Bulletin:

Part No	Qty	Unit Price
5W0171	1	Quotation base
5W0172	1	Quotation base
5W0173	1	Quotation base

Applicability: For each V2500 engines to incorporate this Bulletin:

A1 Models

NEW PART NO. (ATA No)	QTY	PART TITLE	OLD PART No. (IPC No.)	INSTR DISP
5W0171 (72-32-85)	1	.Case, A/O fan	5W0168 (01-100)	(A)(B)(S1)

A5 Models

NEW PART NO. (ATA No.)	QTY	PART TITLE	OLD PART No. (IPC No.)	INSTR DISP
5W0172 (72-32-85)	1	.Case, A/O fan	5W0169 (01-100)	(A)(B)(S1)

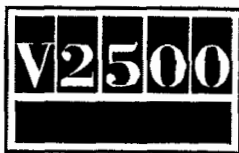
D5 Models

NEW PART NO. (ATA No)	QTY	PART TITLE	OLD PART No. (IPC No.)	INSTR DISP
5W0173 (72-32-85)	1	.Case, A/O fan	5W0170 (01-100)	(A)(B)(S1)

Oct.13/00

V2500-ENG-72-0382

Page 5



International Aero Engines

SERVICE BULLETIN

B. Instruction Disposition Codes

- (1) (A) New part will be available for future releases.
- (2) (B) Old part will be discontinued.
- (3) (SI) New parts can replace old part, but old parts cannot replace new part.

C. Tooling - Price and Availability

Refer to the Special tools given in the referenced Engine Manual TASK to accomplish this Service Bulletin. See Section 3. Accomplishment Instructions.



International Aero Engines

SERVICE BULLETIN

3. Accomplishment Instructions

A Rework Instructions

None

B Assembly Instructions

For the correct removal/installation procedures, refer to Engine Manual 72-32-00.

C Recording Instructions

A record of accomplishment is necessary.

Oct.13/00

V2500-ENG-72-0382

Page 7

