

P U B L I C A T I O N T R A N S M I T T A L

RR-DERBY



International Aero Engines

400 MAIN STREET, MAIL STOP 121-10
EAST HARTFORD, CT 06108, USA.
TELEPHONE: 860 565 5515
FAX: 860 565 0600

P.O.BOX 31, DERBY
TELEGRAMS-'ROYCAR' DERBY
TELEX-37645
TELEPHONE-DERBY 242424

DATE: Mar.13/01

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

This document transmits the Initial Issue of Service Bulletin V2500-ENG-72-0392

Bulletin Initial Issue

Remove

Incorporate
Page 1 to 8 of the
Service Bulletin

Reason for change
Initial Issue

V2500-ENG-72-0392

Transmittal - Page 1 of 2

CHECK THAT ALL PREVIOUS TRANSMITTALS HAVE BEEN INCORPORATED
If any have not been received please advise publication Services, Rolls-Royce plc, Derby, England
© Rolls-Royce plc (date as above) Printed in Great Britain

LIST OF EFFECTIVE PAGES

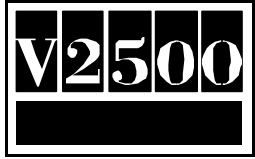
The effective pages to this Service Bulletin are as follows:

<u>Page</u>	<u>Revision Number</u>	<u>Revision Date</u>
Bulletin		
1		Mar.13/01
2		Mar.13/01
3		Mar.13/01
4		Mar.13/01
5		Mar.13/01
6		Mar.13/01
7		Mar.13/01
8		Mar.13/01

Printed in Great Britain

V2500-ENG-72-0392

Transmittal - Page 2



International Aero Engines

SERVICE BULLETIN

MODIFICATION SERVICE BULLETIN - ENGINE - LP COMPRESSOR - IMPROVED REPAIR PARTS FOR ACOUSTIC LININGS OF FAN CASE

1. Planning Information

A. Effectivity

- (1) Airbus A319
 - (a) V2522-A5, V2524-A5 All Engines
- (2) Airbus A319CJ
 - (a) V2527M-A5 All Engines.
- (3) Airbus A320
 - (a) V2500-A1 Post SBE 72-0103 Engines.
 - (b) V2527-A5, V2527E-A5 All Engines.
- (4) Airbus A321
 - (a) V2530-A5, V2533-A5 All Engines.
- (5) Boeing-Douglas Product Division MD-90.
 - (a) V2525-D5, V2528-D5 All Engines.
- (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 removals, and many more engines currently are on a reduce acoustic lining disbond check and repair interval.

(2) Evidence

The problem has been found on in-service engines.

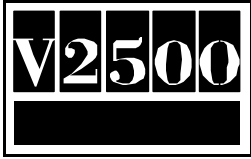
(3) Objective

The purpose of this Service Bulletin is to improve durability.

Mar.13/01

V2500-ENG-72-0392

Page 1 of 8



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) Removal/Installation

Not affected.

(b) Disassembly/Assembly

Not affected.

(c) Cleaning

Not affected.

(d) Inspection/Check

Not affected.

(e) Repair Schemes

Affected (See Supplemental Information)

(f) Testing

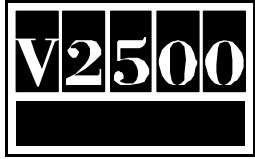
Not affected.

Printed in Great Britain

D. Supplemental Information

- (1) The part introduced by this Service Bulletin must be fitted as a complete location set to increase reliability. This Service Bulletin configuration partitions an old part into two small parts. If old configuration lining became damaged, each one can be removed and replaced with two new configuration linings.

New procedures (for the SBE 72-0392 configuration) will be published in a subsequent transmittal of the Engine Manual and Aircraft Maintenance Manual.



International Aero Engines

SERVICE BULLETIN

E. Description

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

(a) The repair only part (P/N: 5R0291) of the fan case assembly 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 for each engine.
- (iv) To provide a water drainage feature and eliminate possibility of incorrect installation.

F. Compliance

Category Code 7.

This Service Bulletin can be accomplished when supply of superseded parts has been depleted.

G. 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.

H. 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.

I. Weight and Balance

(1) Weight Change

None

(2) Moment Arm

No affect

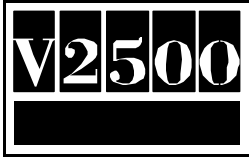
(3) Datum

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

Mar.13/01

V2500-ENG-72-0392

Page 3



J. Electrical Load Data

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

K. Software Accomplishment Summary

Not applicable.

L. References

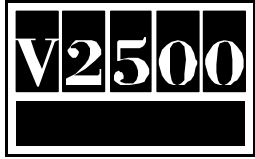
- (1) Internal Reference 99VJ012A
- (2) The following Repair Schemes will be revised to include the new repair part introduced by this Service Bulletin.
 - (a) Engine Manual, 72-32-85, VRS1540, VRS1842 and VRS1849, TASK 72-32-85-300-025, TASK 72-32-85-300-041 and TASK 72-32-85-300-035.
 - (b) A319/A320/A321 Aircraft Maintenance Manual (AMM), 72-32-85, VRS1583 and VRS1845, TASK 72-32-85-300-018 and TASK 72-32-85-300-020.
 - (c) MD-90 Aircraft Maintenance Manual (AMM), 72-32-85, VRS1853, TASK 72-32-85-350-809

M. 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, Repair.
- (3) A319/A320/A321 Aircraft Maintenance manual(AMM), Chapter/Section 72-32-85, Repair.
- (4) MD-90 Aircraft Maintenance Manual (AMM), Chapter/Section 72-32-85, Repair.

N. 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
5R0291	12	2,100.0

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
5R0291 (72-32-85)	8	.Lining, A/O Acoustic -repair	5R0279 (01-950)	(A)(B)(1D) (S1)(S3)
5R0291 (72-32-85)	2	.Lining, A/O Acoustic -repair	5R0280 (01-955)	(A)(B)(2D) (S1)(S2)
5R0291 (72-32-85)	2	.Lining, A/O Acoustic -repair	5R0281 (01-960)	(A)(B)(2D) (S1)(S2)

A5 Models

NEW PART NO. (ATA No.)	QTY	PART TITLE	OLD PART No. (IPC No.)	INSTR DISP
5R0291 (72-32-85)	8	.Lining, A/O Acoustic -repair	5R0279 (01-950)	(A)(B)(1D) (S1)(S3)
5R0291 (72-32-85)	2	.Lining, A/O Acoustic -repair	5R0280 (01-955)	(A)(B)(2D) (S1)(S2)
5R0291 (72-32-85)	2	.Lining, A/O Acoustic -repair	5R0281 (01-960)	(A)(B)(2D) (S1)(S2)

Mar.13/01

V2500-ENG-72-0392

Page 5



International Aero Engines

SERVICE BULLETIN

D5 Models

NEW PART NO. (ATA No.)	QTY	PART TITLE	OLD PART No. (IPC No.)	INSTR DISP
5R0291 (72-32-85)	8	.Lining, A/O Acoustic -repair	5R0279 (01-950)	(A)(B)(1D) (S1)(S3)
5R0291 (72-32-85)	2	.Lining, A/O Acoustic -repair	5R0280 (01-955)	(A)(B)(2D) (S1)(S2)
5R0291 (72-32-85)	2	.Lining, A/O Acoustic -repair	5R0281 (01-960)	(A)(B)(2D) (S1)(S2)

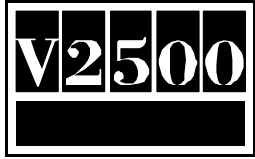
Printed in Great Britain

B. Instruction Disposition Codes

- (1) (A) New part will be made available from February 2001.
- (2) (B) Old part will be discontinued.
- (3) (1D) Quantity increased from 4 to 8.
- (4) (2D) Quantity increased from 1 to 2.
- (5) (S1) New parts can replace old part, but old parts cannot replace new part.
- (6) (S2) New parts coded (S1) must replace old parts coded (S1) as a COMPLETE SET per Engine.
- (7) (S3) New parts coded (S1) must replace old parts coded (S1) as a COMPLETE SET per old 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

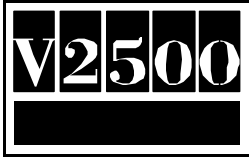
None

Printed in Great Britain

Mar.13/01

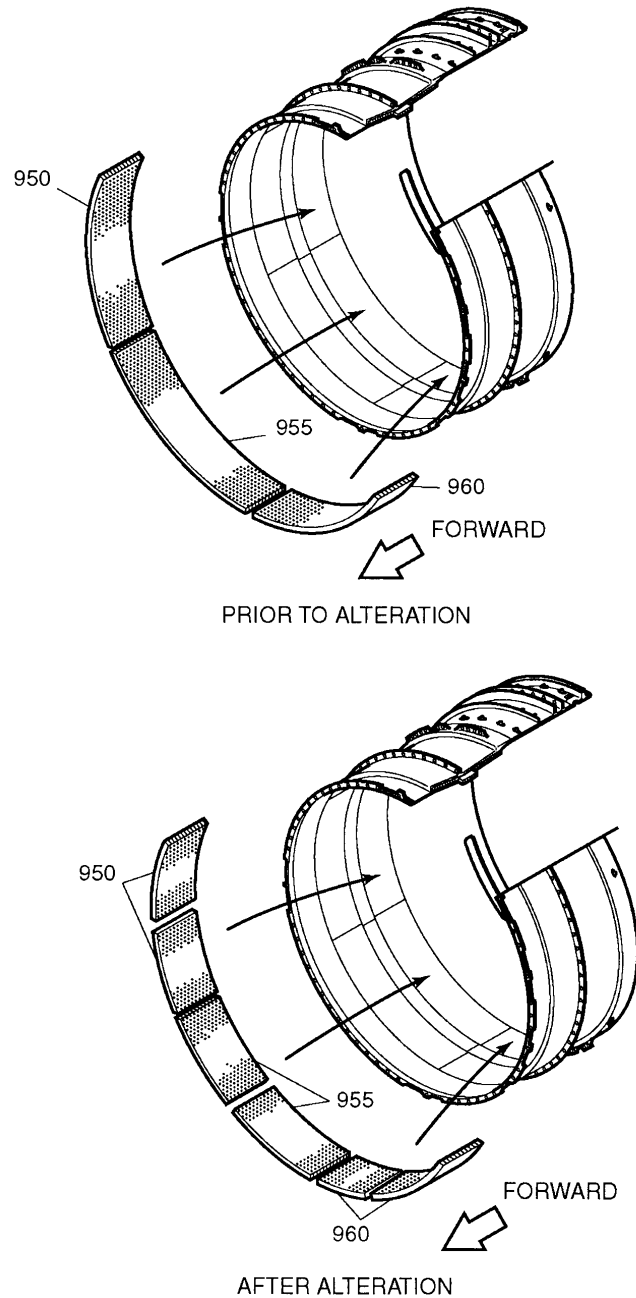
V2500-ENG-72-0392

Page 7



International Aero Engines

SERVICE BULLETIN



Printed in Great Britain

Repair Parts for Acoustic area - Before and after alteration
Figure 1

Mar.13/01

V2500-ENG-72-0392

Page 8

jaykhi0013