



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

DATE: Mar.15/04

P.O. BOX 31, DERBY
TELEGRAMS - 'ROYCAR' DERBY
TELEX - 37645
TELEPHONE:- 44 (0) 1332 242424
FAX:- 44 (0) 1332 249936

V2500-A1/A5 SERIES PROPULSION SYSTEMS SERVICE BULLETIN

Printed in Great Britain

This document transmits Revision 1 to Service Bulletin EV2500-75-0072 and Revision 1 to the Supplement

Document History

Service Bulletin Revision Status
Initial Issue Apr.24/98

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Bulletin Revision 1

Remove
All pages of the
Service Bulletin

Incorporate
Pages 1 to 6 of the
Service Bulletin

Reason for change
To add paragraph at section
1.D.(d). To add parts
prices supplement.

Supplement Revision 1

Remove
All pages

Incorporate
Page 1

Reason for change
To add paragraph at section
1.D.(d). To add parts
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V2500-ENG-75-0072

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

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LIST OF EFFECTIVE PAGES

The effective pages to this Service Bulletin following incorporation of Revision 1 to the Bulletin and Revision 1 to the Supplement are as follows:

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R	5	1	Mar.15/04
R	6	1	Mar.15/04
Supplement			
R	1	1	Mar.15/04

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AIR – HPC STAGE 10 BLEED VALVE – INTRODUCTION OF REVISED BLEED VALVE SILENCER WITH
INTEGRAL SEAL LAND

1. Planning Information

A. Effectivity

(1) Aircraft

- (a) Airbus A319
- (b) Airbus A320
- (c) Airbus A321

(2) Engine

- (a) V2500-A1 Engines prior to Serial No. V0362
- (b) V2522-A5 Engines prior to Serial No. V10350
- (c) V2524-A5 Engines prior to Serial No. V10350
- (d) V2527-A5 Engines prior to Serial No. V10350
- (e) V2527E-A5 Engines prior to Serial No. V10350
- (f) V2530-A5 Engines prior to Serial No. V10350
- (g) V2533-A5 Engines prior to Serial No. V10350

B. Concurrent Requirements

None.

C. Reason

(1) Condition

A design review has shown that the manufacture of the Stage 10 bleed valve silencers of the HP Compressor can be made easier.

(2) Background

See (1) Condition.

(3) Objective

Incorporation of this Service Bulletin is designed to simplify manufacture.



(4) Substantiation

The changes introduced by this Service Bulletin (modification) have been the subject of satisfactory engineering analysis and successful trial running on V2500 development engines.

(5) Effect of Bulletin on:

(a) Removal/Installation

Affected.

(b) Disassembly/Assembly

Not affected.

(c) Cleaning

Not affected.

(d) Inspection/Check

Not affected.

(e) Repair

Affected.

(f) Testing

Not affected.

(6) Supplemental Information

None.

D. Description

(1) The changes introduced are:

(a) The HP 10 bleed valve seal has been deleted and incorporated as an integral feature of the revised bleed valve silencer assembly (see (b) below).

(b) A revised HP 10 bleed valve silencer assembly is introduced similar to the existing item except for the following changes:

(i) The seal land has been incorporated as an integral feature.

(ii) The material has been changed from Titanium to Nickel based alloy C263.



(iii) Various pressed radii and draw angles have been revised to ease manufacture.

(c) The length of the bolts attaching the silencer assembly to the bleed valve has been reduced by two increments due to the integration of the bleed valve silencer seal land.

(d) The exhaust hole configuration of the silencer has been revised. The previous silencer design comprised 2240 off 1,6 mm. diameter holes while the new design has 558 off 4,0 mm. diameter holes.

E. Approval

The part number changes and/or part modifications described in Sections 2 and 3 of this Service Bulletin have been shown to comply with the applicable Federal Aviation Regulations and are FAA-Approved for the engine models listed.

F. Compliance

Category Code 7

Accomplish when the supply of superseded parts has been depleted.

G. Manpower

In service

Not applicable.

At overhaul

Not applicable.

NOTE: The parts affected by this Service Bulletin are accessible at overhaul.

H. Material Price and Availability

Modification kit not required; parts supplied as single line items.

For prices and availability of future spares see Supplement to this Bulletin.

I. Tooling Price and Availability

Special tools are not required.



J. Industry Support Information

None.

K. Weight and Balance

(1) Weight Change

Plus 0,27 Kg (plus 0.60 lb).

(2) Moment Arm

673,1 mm. (26.5in.) rearwards of the datum.

(3) Datum

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

L. Electrical Load Data

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

M. Software Accomplishment Summary

Not applicable.

N. References

(1) Airbus Aircraft Modification No.27277.

(2) Engineering Change No. - 96VR016A.

(3) ATA Locator - 75-32-54.

O. Other Publications Affected

(1) Illustrated Parts Catalogue (IPC), Chapter/Section 75-32-54.

(2) Repair schemes are affected.

(3) A1/A5 Engine Manual (EM), Chapter/Section 72-00-40, Removal/Installation.

(4) A319, A320, A321 Aircraft Maintenance Manual (AMM), Chapter/Section 75-32-54.



2. Material Information

A. Parts affected by this Service Bulletin:

Applicability: For each V2500 engine to incorporate this bulletin

75-32-54

FIG ITEM NO.	NEW PART NO.	QTY	PART TITLE	OLD PART NO.	INSTR DISP
01350	6A6536	1	.Silencer assy,air HP10 -RH upper	6A2092	(A)(B) (S1)
01365	-	1	.Seal A/O - air, HP10 - RH	6A3194	(B)(C)
01368	AS21010	12	.Bolt, bihex head (.250 dia x .625)	AS21012	(A)(1D) (S1)

B. Instruction Disposition Codes:

(A) New part will be available from October 1997.

(B) Old part will be discontinued.

(C) Redundant part.

(S1) New parts coded (S1) are freely and fully interchangeable as a complete engine set with old parts coded (S1).

(1D) Old part may be used up on other applications.



3. Accomplishment Instructions

A. Rework Instructions

None.

B. Assembly Instructions

- (1) Remove and discard the 12 bolts (AS21012).
- (2) Remove the silencer (6A2092) and seal assembly (6A3194) from the bleed valve.
- (3) Install the silencer (6A6536) to the bleed valve.
 - (a) Make sure that the silencer is in the correct position.
 - (b) Safety the silencer with the 12 bolts (AS21010).

C. Recording Instructions

- (1) A record of accomplishment is necessary.



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SUPPLEMENT - PRICES AND AVAILABILITY

The prices (if shown) are for estimating 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 catalogue for current prices.

1. Modification Kit:

Not applicable.

2. Parts required:

Part No.	Description	Unit Price US Dollars
6A6536	Silencer assy	7,285.00
AS21010	Bolt	4.80

