



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

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## V2500-D5 SERIES PROPULSION SYSTEMS SERVICE BULLETIN

This document transmits the Revision 1 of Service Bulletin V2500-ENG-70-0979.

### Document History

#### Service Bulletin Revision Status

Initial Issue.            Nov.14/08

### Service Bulletin Revision 1

Remove	Incorporate	Reason for change
	Pages 1 to 5 of the Service Bulletin.	To update the General Information and Material Information sections.
	Page 1 of the Supplement.	To update the prices.

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

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INFORMATION- ENGINE - INTRODUCTION OF A NEW HP COMPRESSOR 7C BLEED VALVE NOISE  
ATTENUATOR

1. Planning Information

A. Effectivity

- (1) Boeing MD-90
  - (a) V2525-D5, V2528-D5 Engines.

B. Reason

R (1) Condition:

R Several events of damage to the inner fixed structure of the bypass duct due to thermal load have been reported.

R (2) Background:

The effect is attributed to the contact of hot efflux air from bleed port 7C with the inner fixed structure, causing damage to the bond panel structure and potting compound. The attenuator of the bleed port is seen to have an influence on the bleed flow distribution along the C-duct.

(3) Objective:

A new attenuator will be introduced to prevent potential damage to the inner fixed structure.

(4) Substantiation:

The changes introduced by this Service Bulletin were the subject of satisfactory engineering analysis, extensive engine testing and flight test. This Service Bulletin complies with the applicable engine certification basis.

C. Description

This Service Bulletin authorises a new design for the HP Compressor bleed port 7C noise attenuator. The dome shape has been redesigned and elongated by 10 mm to move the efflux holes further into the bypass duct. The efflux hole number has been decreased while the diameter of the holes has been increased. This leads to an increased flow momentum of the efflux air and reduces the contact of the hot air with the inner fixed structure bond panel inner surface, thereby achieving a reduction of the wall temperature.

**D. Compliance**

Category Code 7.

Accomplish when supply of superseded parts has been depleted.

**E. Approval**

The part number changes and/or part modifications described in section 2 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. Manpower**

(1) In Service

R Not applicable.

(2) At Overhaul

Not applicable.

**G. Weight and Balance**

(1) Weight

0.3 lb (0,146 kg).

(2) Moment Arm

21.0 in. (533 mm) rearward.

(3) Datum

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

**H. General Information**

R **NOTE:** To incorporate this Service Bulletin on engines with baseline  
R configuration (PRE V2500-ENG-75-0073) of the Attenuator (7C), IAE  
R suggests to accomplish and record the steps instructed in paragraph  
R 2.B.(1) of Service Bulletin V2500-ENG-75-0073.

R (1) This General Information Bulletin introduces a new attenuator to prevent  
R potential damage to the Inner Fixed Structure (IFS).

## (2) Publications affected:

- (a) The V2500-D5 Engine Illustrated Parts Catalogs (S-V2500-3IA, S-V2500-3IB) will be revised to include the new part. Refer to Section 2. "Material Information" for ATA Locations.
- (b) IAE V2500 Engine Manual (E-V2500-3IA) Chapter/Section 72-00-40, to add the new part title.
- (c) IAE V2500 Component Maintenance Manual (CMM-THD-V2500-3IA) Chapter/Section 75-32-52, to add the new part title.
- (d) Boeing MD-90 Aircraft Maintenance Manual, Chapter/Section 75-33-52 to add the new part title.

**I. References**

## (1) Internal Reference No.:

Engineering Change No. 07VR007.

## (2) ATA Locator - 75-32-52.

## 2. Material Information

### A. Parts affected by this Service Bulletin:

Applicability: For all V2500-D5 Engines

FIG ITEM NO.	NEW PART NO.	QTY	PART TITLE	MAT	OLD PART NO.	INSTR DISP
75-32-52						
R 01-060	6B1124	1	.Attenuator, Assy	-	6A6539	(A)(S1)
01-066	AS16244	1	..Rivet, Solid Universal HD	-	AS16250	(A)(S2)
R 01-080	AS46789 -411	12	..Rivet, Blind Universal HD	-	AS16090	(A)(B) (S1)

### B. Instruction/Disposition Codes:

(A) New part is available for sale.

(B) Alternative part.

(S1) Old and new parts are fully interchangeable.

(S2) Old and new parts are not interchangeable.

**3. Accomplishment Instructions**

None.



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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. New Production Parts:

	Part No.	Description	Unit Price US Dollars
R	6B1124	.Attenuator, Assy	3,953.00
R	AS16244	..Rivet, Solid Universal HD	3.89
R	AS46789-411	..Rivet, Blind, Universal HD	12.40

3. Tools

None.