



ENGINE - LP COMPRESSOR - REMOVE UNNECESSARY BLANKING PLATES AND OIL DRAIN TUBE FROM THE FAN FRAME ASSEMBLY - CATEGORY CODE 7 - MOD.ENG-72-0170

1. Planning Information

A. Effectivity

- (1) Aircraft: (a) McDonnell Douglas MD-90
- (2) Engine: (a) V2525-D5 Engines prior to Serial Number V20007.  
(b) V2528-D5 Engines prior to Serial Number V20007.

B. Concurrent Requirements

None.

C. Reason

(1) Condition

Unnecessary blanking plates and seal drain tube remain on the Fan Frame Assembly.

(2) Background

A review for the existing Fan Frame Assembly has shown that a weight saving can be achieved by replacing the seal drain tube with flow restricting pin and deletion of blanking plates and plugs.

(3) Objective

The changes introduced by this Service Bulletin are designed to reduce engine weight.

(4) Substantiation

Substantiation testing has been successfully completed.

(5) Effects of Bulletin on workshop procedure:

Removal/Installation	Not affected
Disassembly/Assembly	Affected (See supplemental information)
Cleaning	Not affected
Inspection/Check	Not affected
Repair	Not affected
Testing	Not affected

(6) Supplemental Information

V2500-ENG-72-0170

**SERVICE BULLETIN**

- (a) The Disassembly/Assembly will be revised to add new configuration of this Service Bulletin.

**D. Description**

- (1) This Service Bulletin introduces the new Fan Frame Assembly as follows:
- (a) The blanking plates are deleted from inside of No.1 and No.6 bypass struts on the Fan Frame Assembly.
  - (b) Replace the seal drain tube assembly with flow-restricting pin which is fitted on the Fan Frame Assembly (See Figure 1).
  - (c) The existing bolt and sealing ring of the seal drain tube assembly have been deleted. (See Figure 1).
  - (d) Engine weight will be decreased 0.4 lb. (0,18 kg).

**E. Approval**

The Part Number transaction shown under the Material Information portion of this Bulletin has been shown to comply with the applicable Federal Aviation Regulations and are FAA-APPROVED for the Engine Model listed.

**F. Compliance**

Category Code 7.

Accomplish when supply of superseded parts has been depleted.

**G. Manpower**

Estimated Manhours to incorporate the full intent of this Bulletin:

Venue	Estimated Manhours
(1) In service .....	Not applicable
(2) At overhaul .....	Not affected

NOTE: (The parts affected by this bulletin are accessible at overhaul)

**H. Material – Price and Availability**

- (1) Modification kit not required. Parts are supplied as single line items.
- (2) See "Material Information" section for prices and availability of future spares.

**V2500–ENG–72–0170**



## SERVICE BULLETIN

I. Tooling - Price and Availability

Special tools are not required to accomplish this Bulletin.

J. Weight and Balance

- (1) Weight change ----- Minus 0.4 lb. (0,18 kg)
- (2) Moment arm ----- No effect.
- (3) Datum ----- Engine front mount centerline  
(Powerplant Station (P.P.S.)100)

K. Electrical Load Data

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

L. References

- (1) Internal Reference No.

EC92VJ144

EC95VJ012A

- (2) Other references

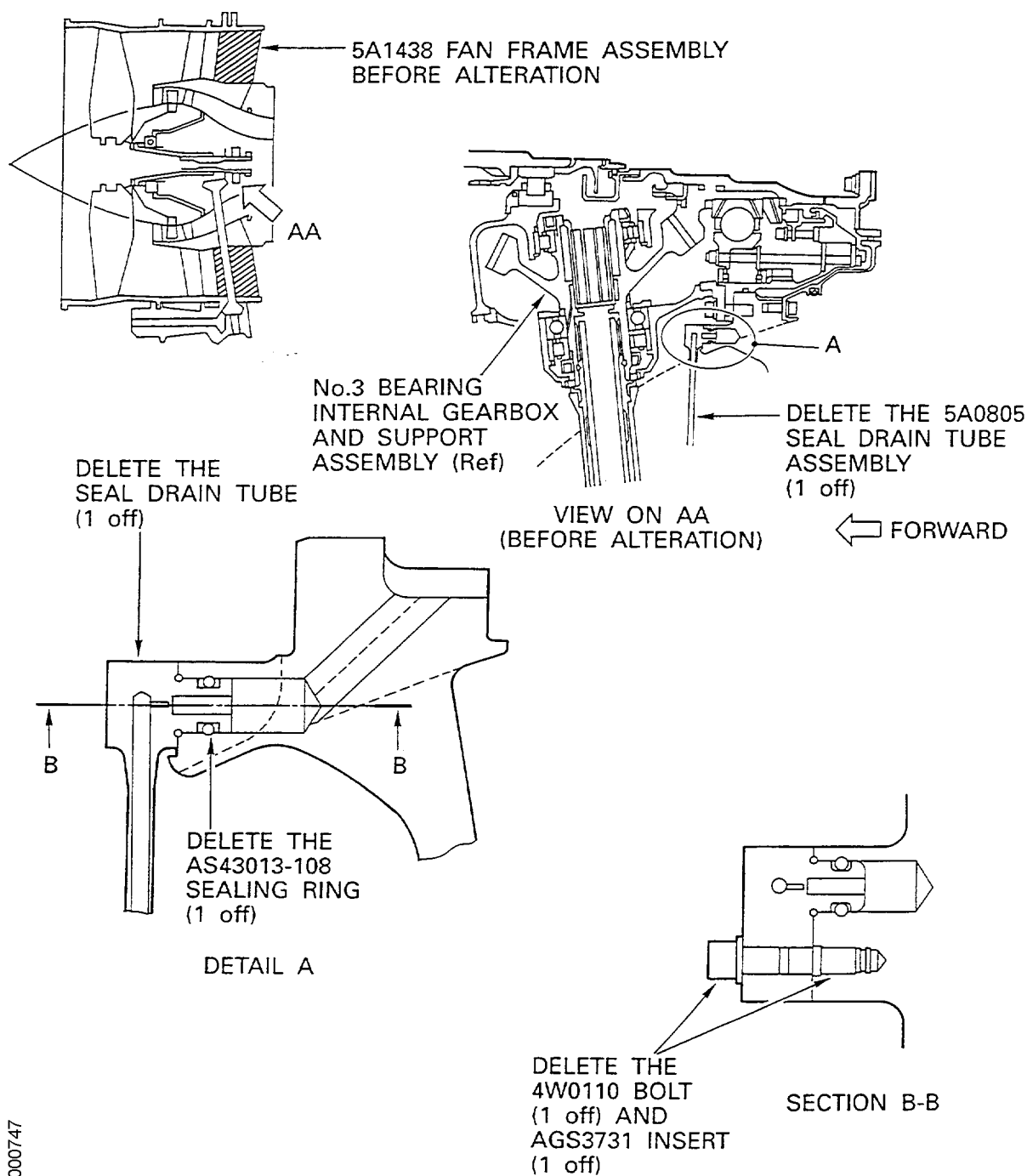
V2500 Engine Illustrated Parts Catalog (S-V2500-3IA).

V2500 Engine Manual (E-V2500-3IA).

M. Other Publications Affected

- (1) V2500 Engine Illustrated Parts Catalog (S-V2500-3IA), Chapter/Section 72-32-00, 72-32-03 and 72-32-38.
- (2) V2500 Engine Manual (E-V2500-3IA), Chapter/Section 72-32-00, Disassembly-12 and Assembly-04.

V2500-ENG-72-0170

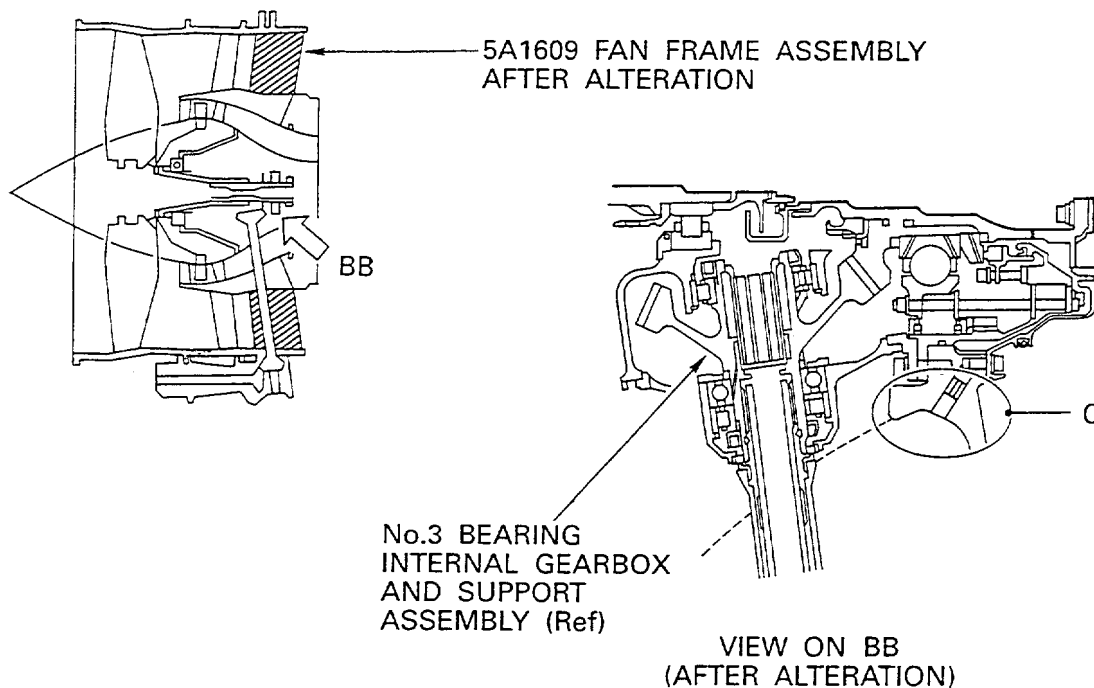


Fan Frame Assembly - Before and After Alteration  
Fig.1 (Sheet 1 of 2)

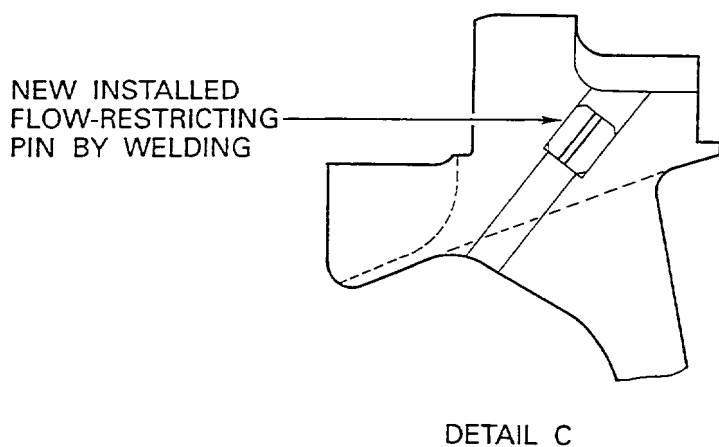


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← FORWARD



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Fan Frame Assembly - Before and After Alteration  
Fig.1 (Sheet 2 of 2)

V2500-ENG-72-0170



## 2. Accomplishment Instructions

### A. Rework Instructions

There are no rework instructions necessary to accomplish this Service Bulletin.

### B. Assembly Instructions

- (1) Install the 5A1609, fan frame assembly by the approved procedures in Reference L. (2), Chapter/Section 72-32-00, Assembly-04.

The 4W0110, bolt, the AS43013-108, sealing ring and the 5A0805, seal drain tube are not necessary to install on the engines.

### C. Recording Instructions

A record of accomplishment is necessary.



## SERVICE BULLETIN

3. Material Information

Applicability: For each V2500-D5 Engine to incorporate this Bulletin.

A. Kits associated with this Bulletin:

None

B. Parts affected by this Bulletin:

New Part No. (ATA No.)	Qty	Est'd Unit Price (\$)	Keyword	Old Part No. (IPC No.)	Instruction Disposition
----- (72-32-00)	1	---	.Bolt, Machine Double Hex	4W0110 (02-215)	(C)(S1)
----- (72-32-00)	1	---	.Ring, Sealing Toroidal	AS43013-108 (02-220)	(C)(S1)
5A1609 (72-32-03)	1		.Frame, A/O Fan	5A1438 (03-100)	(A)(B) (E)(S1)
----- (72-32-03)	1	---	...Insert	AGS3731 (03-141)	(C)(D)
----- (72-32-38)	1	---	.Tube, A/O Seal Drain	5A0805 (01-200)	(C)(S1)

C. Instruction/Disposition Code Statements:

- (A) New part is currently available.
- (B) Old part will no longer be available for sale.
- (C) Old part will continue to be supplied.
- (D) This is part of Fan Frame A/O.
- (E) Part is not normally a provisioned item. Contact IAE Spare Parts Department for a firm part price quotation.
- (S1) New parts coded (S1) must replace old parts coded (S1) as a COMPLETE SET per engine.

NOTE: The estimated 1996 prices shown are provided for planning purposes only and do not constitute a firm quotation. Consult the IAE Price Catalog or contact IAE's Spare Parts Sales Department for information concerning firm prices.

V2500-ENG-72-0170



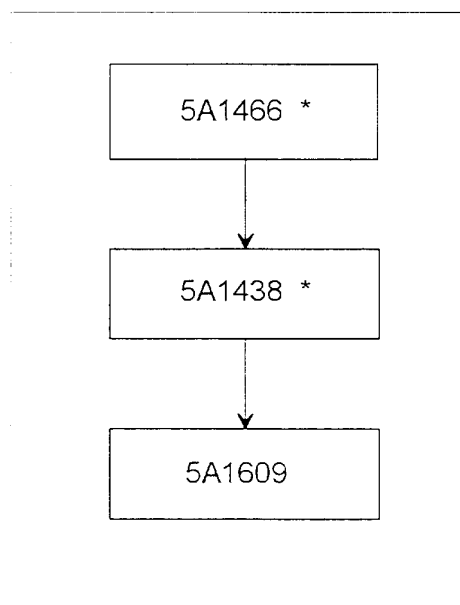
MODIFICATIONS

PART NUMBER CHANGE  
V2500-D5

BASE LINE

V2500-ENG-70-0244  
TO ANNOUNCE THE AVAILABILITY  
OF A NEW FAN FRAME ASSEMBLY

V2500-ENG-72-0170  
REMOVE UNNECESSARY BLANKING  
PLATES AND OIL DRAIN TUBE  
FROM THE FAN FRAME ASSEMBLY



\* NOTE: PART ARE NOT REWORKABLE.

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. Family Tree - Fan Frame Assembly Ref. Catalog Sequence No. 72-32-03 Fig. 03, Item 100  
Fig.2

V2500-ENG-72-0170





**International Aero Engines**

**SERVICE BULLETIN**

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**V2500-ENG-72-0170**

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Page 9

