



ENGINE - LP COMPRESSOR - PROVIDE A NEW FAN CASE-TO-MAIN GEARBOX ASSEMBLY MATING SEAL RING - CATEGORY CODE 6 - MOD.ENG-72-0212

1. Planning Information

A. Effectivity

- (1) Aircraft: (a) Airbus A320  
(b) Airbus A321  
(c) McDonnell Douglas MD-90
- (2) Engine: (a) V2500-A1 Engines prior to Serial No. V0362  
(b) V2527-A5 Engines prior to Serial No. V10140  
(c) V2530-A5 Engines prior to Serial No. V10140  
(d) V2525-D5 Engines prior to Serial No. V20033  
(e) V2528-D5 Engines prior to Serial No. V20033

B. Reason

(1) Condition

Some operators have reported difficulty when installing the Gearbox onto the Fan Case.

(2) Background

An investigation determined that the width of the existing Fan Case oil tube to Gearbox mating seal ring could result in the application of abnormal force during installation of the Gearbox.

(3) Objective

To ease the Gearbox installation onto the Fan Case.

(4) Substantiation

The change recommended in this Service Bulletin has been subjected to fitting test of the Gearbox Assembly and engine endurance test.

(5) Effects of Bulletin on Workshop Procedures:

Removal/Installation	Not affected
Disassembly/Assembly	Not affected
Cleaning	Not affected
Inspection/Check	Not affected
Testing	Not affected
Repair	Not affected

(6) Supplemental Information

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None

C. Description

Width of the Sealing Ring on the Oil Seal Tube is decreased. See Figure 1.

D. Approval

The part number changes and/or part modifications described in Section 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 Model listed.

E. Compliance

Category Code 6

Accomplish when the subassembly (i.e., modules, accessories, components, build groups) is disassembled sufficiently to afford access to the affected parts.

F. 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 part affected by this Service Bulletin is accessible at overhaul)	

G. Material – Price and Availability

- (1) Modification kit is not required.
- (2) See "Material Information" section for prices and availability of future spares.

H. Tooling – Price and Availability

Special tools are not required.

I. Weight and Balance

- |                   |    |    |    |           |
|-------------------|----|----|----|-----------|
| (1) Weight change | .. | .. | .. | None      |
| (2) Moment arm    | .. | .. | .. | No effect |

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(3) Datum                    ..    ..    ..    Engine front mount Centerline  
(Powerplant station P.P.S.100)

## J. Electrical Load Data

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

## K. Reference

(1) Internal Reference No.

93VJ028

## (2) Other References

## V2500 Engine Manuals (E-V2500-1IA and E-V2500-3IA)

### L. Other Publications Affected

(1) The V2500 Engine Illustrated Parts Catalogs (S-V2500-1IA, S-V2500-2IA and S-V2500-3IA), Chapter/Section 72-32-00

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2. Accomplishment Instructions

A. Rework Instructions

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

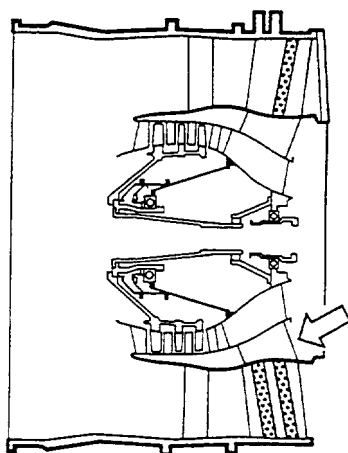
B. Assembly Instructions

Install the 5A1641, Sealing Ring by the approved procedure given in Reference (1), Chapter/Section 72-32-00, Assembly-11.

C. Recording Instructions

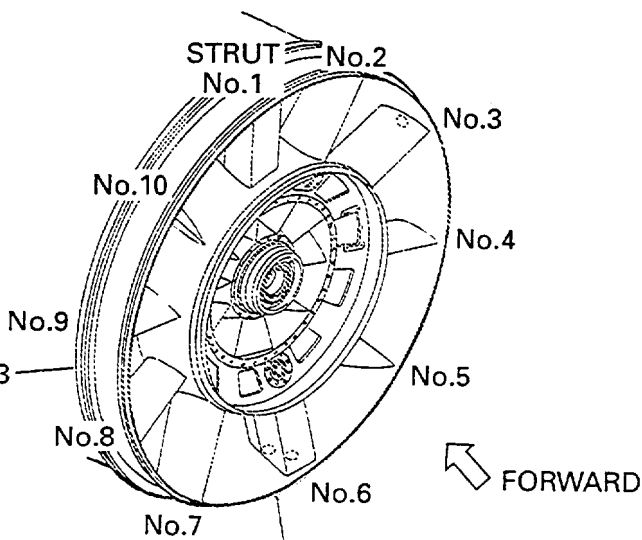
A record of accomplishment is necessary.

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MODULE 32

SEE 72-32-03  
FIG. 03



SEALING RING (Ref)  
SEALING RING (Ref)

OIL SEAL TUBE (Ref)

BOLT (Ref)

SEALING RING  
REMOVE 5A2138 AND  
INSTALL 5A1641

Before and After Alteration of Sealing Ring  
Fig.1

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3. Material InformationA. Kits associated with this bulletin:

None.

B. Parts affected with this bulletin:

New Part No. (ATA No.)	Qty	Est'd Unit Price (\$)	Keyword	Old Part No. (IPC No.)	Supply Status
5A1641 (72-32-00)	1	20.50	.Ring, Sealing Toroidal	5A2138 (01-154)	(A)(B)(S1)

C. Supply Status Code Statements:

- (A) New part is currently available.
- (B) Old part will no longer be available for sale.
- (S1) Old and New parts are freely and fully interchangeable, both physically and functionally.

NOTE: The estimated 1995 unit price shown is provided for planning purposes only and does not constitute a firm quotation. Consult the IAE Price Catalog or contact IAE's Spare Parts Sales Department for information concerning firm prices.

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