

SERVICE BULLETIN

ENGINE - MAIN GEARBOX ASSEMBLY - MODIFICATION OF O-RING FOR THE ANGLE GEARBOX SUPPORT - CATEGORY CODE 6 - MOD.ENG-72-0301

1. Planning Information

A. Effectivity

- (1) Aircraft: Boeing-Douglas MD-90
- (2) Engine: V2525-D5 Engines prior to Serial No.20187
V2528-D5 Engines prior to Serial No.20187

B. Reason

(1) Condition

Damage to the toroidal sealing ring of the angle gearbox support can occur. The problem is caused by excessive compression to the sealing ring as a result of adverse tolerance conditions.

(2) Background

In extreme stack-up condition, the seal ring can be cut during assembly.

(3) Objective

The purpose of this Service Bulletin is to make assembly easier.

(4) Substantiation

A satisfactory engineering analysis has been done on the changes introduced by this Service Bulletin.

(5) Effect of Bulletin on workshop procedures:

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

C. Description

This Service Bulletin introduces a revised toroidal sealing ring. To decrease the compression, the cross section of the sealing ring has decreased from 0,314 mm to 0,187 mm.

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D. Approval

The part number changes and part modifications are given in Section 3 of this Service Bulletin. They obey the applicable Federal Aviation Regulation and are FAA-APPROVED for the engine model listed.

E. Compliance

Category Code 6

This Service Bulletin can be done when the subassembly (that is modules, accessories, components, build groups) is disassembled sufficiently to get access to the affected parts.

F. Manpower

Estimate of man-hours necessary to do this Service Bulletin in full:

Venue	Estimated Man-hours
(1) In service	Not applicable
(2) At overhaul	Not applicable (Parts are accessible at overhaul).

G. Material – Price and Availability

- (1) A modification kit is not necessary.
- (2) See 'Material Information' section for prices and availability of future spares.

H. Tooling – Price and Availability

Special tools are not necessary.

I. Weight and Balance

- (1) Weight change Not affected
- (2) Moment arm Not affected
- (3) Datum centreline Engine front mount (Power Plant Station (PPS) 100)

J. Electrical Load Data

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

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K. References

- (1) Internal Reference No.

EC97VF003

- (2) Other References

The V2500-D5 Engine Manual (EM), (E-V2500-3IA) Chapter/Section 72-60-10,
Disassembly/Assembly

L. Other Publications Affected

- (1) V2500-D5 Engine Illustrated Parts Catalog (EIPC), (S-V2500-3IA)
Chapter/Section 72-60-10.



2. Accomplishment Instructions

A. Rework Instructions

None.

B. Disassembly Instructions

- (1) Disassemble the Packing (Refer to V2500-D5 Engine Manual (EM), Chapter/Section 72-60-10, Disassembly/Assembly).

C. Assembly Instructions (Refer to Figure 1)

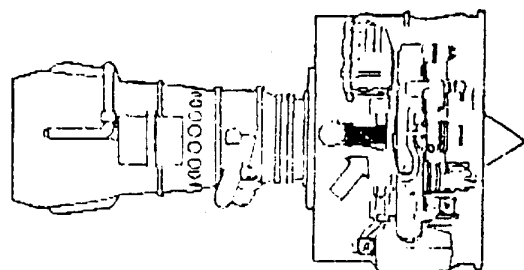
- (1) Install the new Packing AS3209-160 (Refer to V2500-D5 Engine Manual (EM), Chapter/Section 72-60-10, Disassembly/Assembly).

D. Recording Instructions

- (1) A record of accomplishment is necessary.



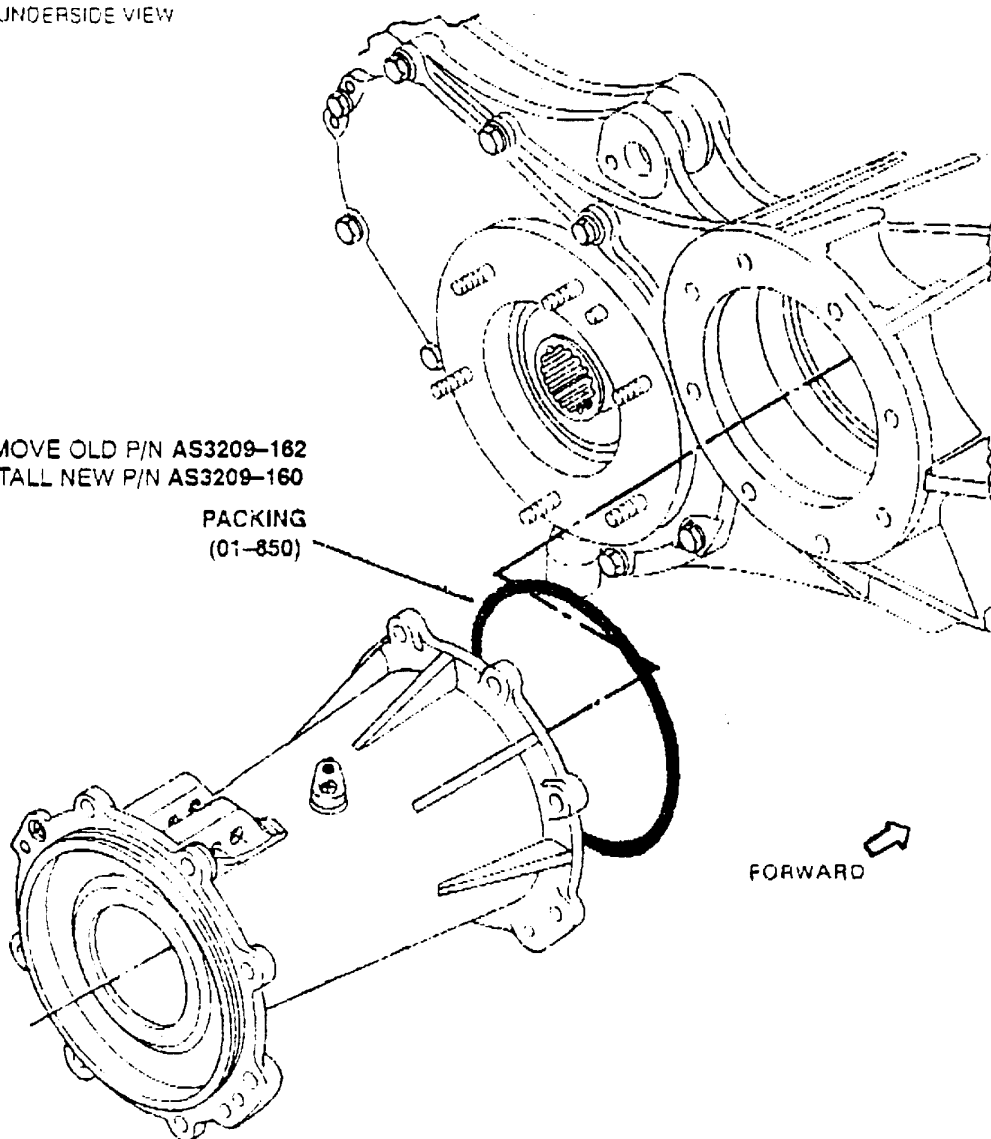
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UNDERSIDE VIEW

REMOVE OLD P/N AS3209-162
INSTALL NEW P/N AS3209-160

PACKING
(01-850)



FORWARD

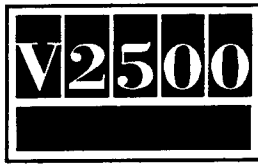
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Angle Gearbox Support
Fig.1

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3. Material Information

Applicability: For each V2500 Engine to incorporate this Bulletin.

A. Kits necessary for this Service Bulletin:

None

B. Parts affected by this Service Bulletin:

New Part No. (ATA No.)	Qty	Est'd Unit Price (\$)	Keyword	Old Part No. (IPC No.)	Instructions Disposition
AS3209-160 (72-60-10)	1		Packing	AS3209-162 (01-850)	(A)(B)(S1)

NOTE: The unit prices, if shown, are an estimate and they are given for the purpose of planning only. For information about actual prices, refer to the IAE Price Catalog or contact IAE's Spare Parts Sales Department.

C. Instructions Disposition Codes

- (A) Parts are available for sale
- (B) Parts can be used on other applications
- (S1) Old and new parts are fully interchangeable

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