

International Aero Engines

SERVICE BULLETIN

July 24/98

Subject: Transmittal of Revision 1 to Service Bulletin V2500-ENG-72-0288

Service Bulletin Revision History:

Event	Date
Basic Issue	Dec. 19/97.
Revision 1	July 24/98.

Reason for Revision:

- (1) Changes to 3. Material Information.
- (2) Editorial changes to bring SB up to latest standards.

Effect on Past Compliance:

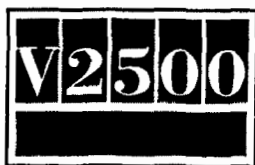
None.

List of Effective Pages:

Page No.	Revision No.	Effective Date
1 to 8	Revision 1	July 24/98.

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Transmittal
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ENGINE - MAIN GEARBOX ASSEMBLY - NEW HYDRAULIC PUMP DRIVE GEARSHAFT SEAL
WITH REVISED PRESSURE CAPABILITY

MODEL APPLICATION

V2500-A1
V2522-A5
V2524-A5
V2527-A5
V2530-A5
V2533-A5

BULLETIN INDEX LOCATOR

72-60-00

Compliance Category Code

6

Internal Reference No.

EC93VF016

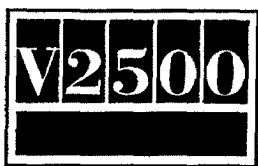
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Not subject to the EAR per 15 C.F.R. Chapter 1, Part 734.3(b)(3).



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ENGINE - MAIN GEARBOX ASSEMBLY - NEW HYDRAULIC PUMP DRIVE GEARSHAFT SEAL WITH REVISED PRESSURE CAPABILITY

1. Planning Information

A. Effectivity

(1) Aircraft:

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

(2) Engines:

- (a) V2500-A1 Engines prior to Serial No. V0362.
- (a) V2522-A5 Engines prior to Serial No. V10213.
- (b) V2524-A5 Engines prior to Serial No. V10213.
- (c) V2527-A5 Engines prior to Serial No. V10213.
- (e) V2530-A5 Engines prior to Serial No. V10213.
- (f) V2533-A5 Engines prior to Serial No. V10213.

R B. Concurrent Requirements

None.

R C. Reason

R (1) Problem

The current seal is not designed to operate in reverse pressure condition.

R (2) Background.

R Airbus has reported that contamination of the engine oil by hydraulic fluid, has occurred on
R several occasions on other engine types with similar designed seals.



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R (3) Substantiation

The seal has been successfully tested in SELOL for 80 hours in direct pressure and for 16 hours in the reverse pressure condition. It has also been tested on engine 809-14 by MTU and the seal operated satisfactorily and did not leak. At the end of the test, the seal was inspected and it was found to be in excellent condition and suitable for continued revenue service.

R (4) Objective

The purpose of this Service Bulletin is to provide a new Gearshaft Seal for the Hydraulic-Pump Drive with reverse pressure capability.

The seal has been designed to be balanced in reverse pressure condition and with the teflon secondary seal.

To make sure that the seal can only be installed in the correct position, the flange has been revised to include a baulking feature.

(5) Effect of Bulletin on:

R (a) Operation

Not affected.

R (b) Maintenance

Not affected.

R (c) Overhaul

Affected.

R (d) Repair Schemes

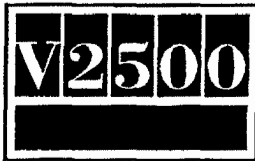
Not affected.

R (e) Interchangeability

Not affected.

R (f) Fits and Clearances

Not affected.



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R D. Description

(1) This Service Bulletin introduces a new Gearshaft Seal for the Hydraulic-Pump Drive, with the change that follows:

(a) Reverse pressure capability.

E. Compliance

Category Code 6

This Service Bulletin can be accomplished when the sub-assembly (That is modules, accessories, components, build groups) is disassembled sufficiently to get access to all affected parts.

R F. Approval

The part number changes and/or part modification are given in Section 2 and 3 of this Service Bulletin. They comply with the applicable Federal Aviation Regulations and are FAA-APPROVED for the engine models listed.

G. Manpower

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

<u>Venue</u>	<u>Estimated Man-Hours</u>
(1) In Service	Not applicable
(2) At Overhaul	Not applicable

R NOTE: It is possible to get access to the parts affected by this Service Bulletin at overhaul.

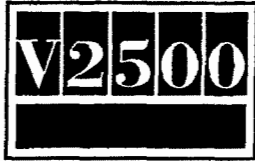
R H. Material - Price and Availability

(1) A modification kit is not necessary.

(2) Refer to Section 3. Material Information for the prices and availability of future spares.

R I. Tooling - Price and Availability

Special tools are not necessary.



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R J. Weight and Balance

(1) Weight Change

Not affected.

(2) Moment Arm

Not affected.

(3) Datum

Engine front mount centreline (Power Plant Station (PPS) 100).

R K. Electrical Load Data

This Service Bulletin does not affect the aircraft electrical load.

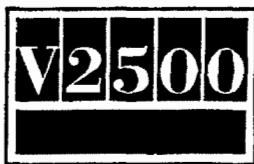
R L. References

(1) A1/A5 Engine Manual (EM), Chapter/Section 72-60-10 and 72-60-23, Disassembly/Assembly.

R M. Other Publications Affected

(1) Illustrated Parts Catalogue (IPC), Chapter/Section 72-60-23.

(2) A1/A5 Engine Manual (EM), Chapter/Sections 72-60-23, Disassembly/Assembly and Cleaning.



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2. Accomplishment Instructions

A. Rework Instructions

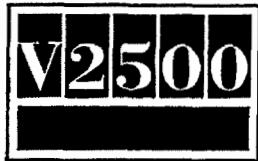
None.

B. Assembly Instructions

- R (1) Disassemble the Gearshaft Seal of the Hydraulic Pump.
- R (a) Do SUBTASK 72-60-23-990-003. (Refer to the A1/A5 Engine Manual (EM),
R Chapter/Section 72-60-23).
- R (2) Assemble the Gearshaft Seal of the Hydraulic Pump.
- R (a) Do SUBTASK 72-60-23-990-004. (Refer to the A1/A5 Engine Manual (EM),
R Chapter/Section 72-60-23).
- R (3) For the correct Disassembly/Assembly procedures, refer to the A1/A5 Engine Manual (EM),
R Chapter/Section 72-60-10, Disassembly/Assembly.

C. Recording Instructions

A record of accomplishment is necessary.



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3. Material Information

R Applicability : for each V2500 engine for which this Service Bulletin is applicable.

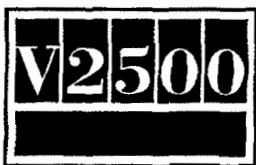
A. Kits necessary for this Service Bulletin:

None.

B. Parts affected by this Service Bulletin:

	NEW PART No. (ATA No.)	QTY	EST'D UNIT PRICE (\$)	PART TITLE	OLD PART No. (IPC No.)	INSTR. DISP
R	4A0314	1		Seal, assembly	4A0300	(A) (B) (S2)
R	(72-60-23)				(01-242)	(S3)
R	-	1		Seal, Housing	4P0015	(B) (S3)
	(72-60-23)				(01-315)	
R	4T0302	1		Face, Seal	4T0230	(A) (B) (S2)
	(72-60-23)				(01-320)	
	-	Ref		Seal	7T0472	(B)
	(72-60-23)				(01-320)	
	-	Ref		Seal	7T0262	(B)
	(72-60-23)				(01-320)	
	-	Ref		Seal	7T0452	(B)
	(72-60-23)				(01-320)	
R	4B0313	1		Housing, assembly of HP	4B0192	(A) (B) (S2)
	(72-60-23)				(01-460)	

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 part sales department.



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C. Instruction Disposition Codes:

- (A) Parts are available for sale.
- (B) Divert for immediate or other requirements.
- R (S2) Old and new parts are not interchangeable either physically or functionally.
- R (S3) The new seal housing and seal assembly must be installed as a set.