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DATE: Jan.15/10

V2500-A5/D5 SERIES PROPULSION SYSTEMS SERVICE BULLETIN

This document transmits the Initial Issue of Service Bulletin V2500-ENG-72-0581 and the Initial Issue of the Supplement.

Service Bulletin Initial Issue

Remove	Incorporate	Reason for change
	Pages 1 to 9 of the Service Bulletin.	Initial Issue.
	Page 1 of the Supplement.	Initial Issue.

V2500-ENG-72-0581
Transmittal - Page 1 of 1

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

INFORMATION – ENGINE – PROVIDE A NEW NO. 3 BEARING OPTION**1. Planning Information****A. Effectivity****(1) Airbus A319**

- (a) V2522-A5, V2524-A5, V2527M-A5 Engines from Serial No. V10001 thru V13207* and V15001 (A5 Standard and A5 SelectOne™ Retrofit Standard).
- (b) V2522-A5, V2524-A5, V2527M-A5 Engines from Serial No. V15002 thru V15379* (A5 SelectOne™ Production Standard).

(2) Airbus A320

- (a) V2524-A5, V2527-A5, V2527E-A5 Engines from Serial No. V10001 thru V13207* and V15001 (A5 Standard and A5 SelectOne™ Retrofit Standard).
- (b) V2527-A5, V2527E-A5 Engines from Serial No. V15002 thru V15379* (A5 SelectOne™ Production Standard).

(3) Airbus A321

- (a) V2530-A5, V2533-A5 Engines from Serial No. V10001 thru V13207* and V15001 (A5 Standard and A5 SelectOne™ Retrofit Standard).
- (b) V2530-A5, V2533-A5 Engines from Serial No. V15002 thru V15379* (A5 SelectOne™ Production Standard).

(4) Boeing MD-90

- (a) V2525-D5, V2528-D5 Engine Serial Nos. V20001 thru V20285.

NOTE: * This estimate of engine serial numbers will be revised, if necessary, when parts are installed in engines in production.

B. Concurrent Requirements

There are no concurrent requirements.

C. Reason**(1) Condition**

V2500-A5/D5 No. 3 Bearing outer race distress. A more fracture-resistant outer race material, resulting in a slower progression rate to fracture and an improved detection of distress was introduced in Service Bulletin V2500-ENG-72-0569. However, the part is currently single-sourced and an alternate source is desired for supporting delivery requirements.

(2) Background

An alternate source has been identified as FAG-Canada. The new bearing is configured with an FAG manufactured cage and rings with balls manufactured by SKF.

(3) Objective

Introduce new No. 3 Bearing Option, P/N 2A4235, which includes the current M50-NiL SKF Bearing P/N 2A3851 and FAG-C M50-NiL Bearing P/N 2A4170.

(4) Substantiation

Validation by similarity to existing M50-NiL Bearing P/N 2A3851. The FAG-C P/N 2A4170 is identical to P/N 2A3851.

(5) Effect of Bulletin on:**(a) Removal/Installation**

Not affected.

(b) Disassembly/Assembly

Not affected.

(c) Cleaning

Not affected.

(d) Inspection/Check

Not affected.

(e) Repair

Not affected.

(f) Testing

Not affected.

(6) Supplemental Information

None.

D. Description

Provide a new No. 3 Bearing Option, P/N 2A4235, which includes the current M50-NiL SKF Bearing P/N 2A3851 and FAG-C M50-NiL Bearing P/N 2A4170.

E. Compliance

Category Code 7.

Accomplish when supply of superseded parts has been depleted.

F. Approval

The part number changes and/or part modifications Specified in the Accomplishment Instructions and Material Information sections of this Service Bulletin have been shown to comply with the applicable Federal Aviation Regulations and are FAA-APPROVED for the engine models given.

The compliance statement and the procedures described in this Service Bulletin have been shown to comply with the applicable Federal Aviation Regulations and are FAA-APPROVED for the Engine Model listed.

G. Manpower

(1) In Service

Not applicable.

(2) At Overhaul

Not applicable.

H. Weight and Balance

(1) Weight Change

None.

(2) Moment Arm

None.

(3) Datum

Engine Front Mount Centreline (Power Plant Station (PPS) 100).

I. Electrical Load Data

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

J. Software Accomplishment Summary

Not applicable.

K. References

- (1) V2500 Engine Illustrated Parts Catalogs (S-V2500-2IA, S-V2500-2IB, S-V2500-3IA, S-V2500-3IB, S-V2500-5IA, S-V2500-5IB, S-V2500-6IA, S-V2500-6IB, S-V2500-7IA and S-V2500-7IB), Chapter/Section 72-32-24.
- (2) V2500 Engine Illustrated Parts Catalogs (S-V2500-2SA, S-V2500-2SB, S-V2500-5SA, S-V2500-5SB, S-V2500-6SA, S-V2500-6SB, S-V2500-7SA and S-V2500-7SB), Chapter/Section 72-32-24.
- (3) V2500 Engine Manual (E-V2500-3IA), Chapter/Section 72-32-24.
- (4) V2500 Service Bulletin V2500-ENG-72-0569 (Information - Engine - Provide A New No. 3 Bearing).
- (5) Internal Reference No.:
Engineering Change No. 05VA059L.
- (6) ATA Locator - 73-32-24.

L. Other Publications Affected

- (1) V2500 Engine Illustrated Parts Catalogs (S-V2500-2IA, S-V2500-2IB, S-V2500-3IA, S-V2500-3IB, S-V2500-5IA, S-V2500-5IB, S-V2500-6IA, S-V2500-6IB, S-V2500-7IA and S-V2500-7IB), Chapter/Section 72-32-24 to add the new part.
- (2) V2500 Engine Manuals (E-V2500-1IA and E-V2500-3IA), Chapter/Section 72-32-24 Cleaning, Inspection and Repair, to add the new part.

M. Interchangeability of Parts

Old and new parts are directly interchangeable.

N. Information in the Appendix

Alternate Accomplishment Instructions (No)

Progression Charts (No)

Supplement (Yes)

Added Data (Yes)

Revision to Table of Limits (No)

Inspection Procedures (No)

0. General Information

The Material Information section of this Service Bulletin provides the latest information concerning the availability of the affected parts.

2. Material Information

A. Material – Price and Availability

Modification kit is not required.

For Price and availability of spares refer to the supplement of this Service Bulletin.

B. Industry Support Program

Not Applicable.

C. The material data that follows is for each engine.

72-32-24

For V2522-A5, V2524-A5, V2527-A5, V2527E-A5, V2527M-A5, V2530-A5, V2533-A5, V2525-D5, V2528-D5 V2522-A5 (SelectOne™), V2524-A5 (SelectOne™), V2527-A5 (SelectOne™), V2527E-A5 (SelectOne™), V2527M-A5 (SelectOne™), V2530-A5 (SelectOne™), V2533-A5 (SelectOne™) Engines:

FIG ITEM NO.	NEW PART NO.	QTY	PART TITLE	MAT	OLD PART NO.	INSTR DISP
01-100		1	No. 3 Bearing	–	2A3851	(C)
01-100	2A4235	1	No. 3 Bearing Option	–		(2)(A)(01)(I)

D. Instructions/Disposition Code Statements:

Parts Modification Conditions

(2) The new part is a replacement part only and cannot be obtained by modification of the old part.

Spare Parts Availability

(A) The new part is available.

(C) The old part will be supplied as a detail of the new bearing option.

(01) No. 3 Bearing Option, P/N 2A4235, consists of a No. 3 Bearing, P/N 2A4170 or P/N 2A3851.

Cleaning, Inspection and Repair Information

(I) The cleaning, inspection and repair requirements are the same for the old and new part. The applicable engine manuals will be revised.

E. Tooling – Price and Availability

Special tools are not required to accomplish this Service Bulletin.

F. Reidentified Parts

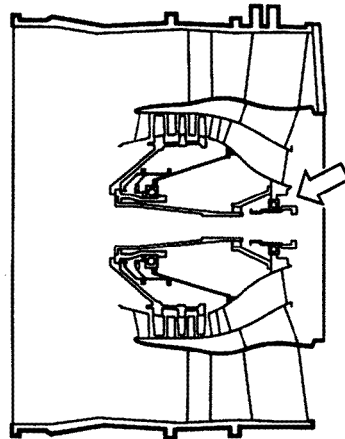
Not Applicable.

G. Other Material Information Data

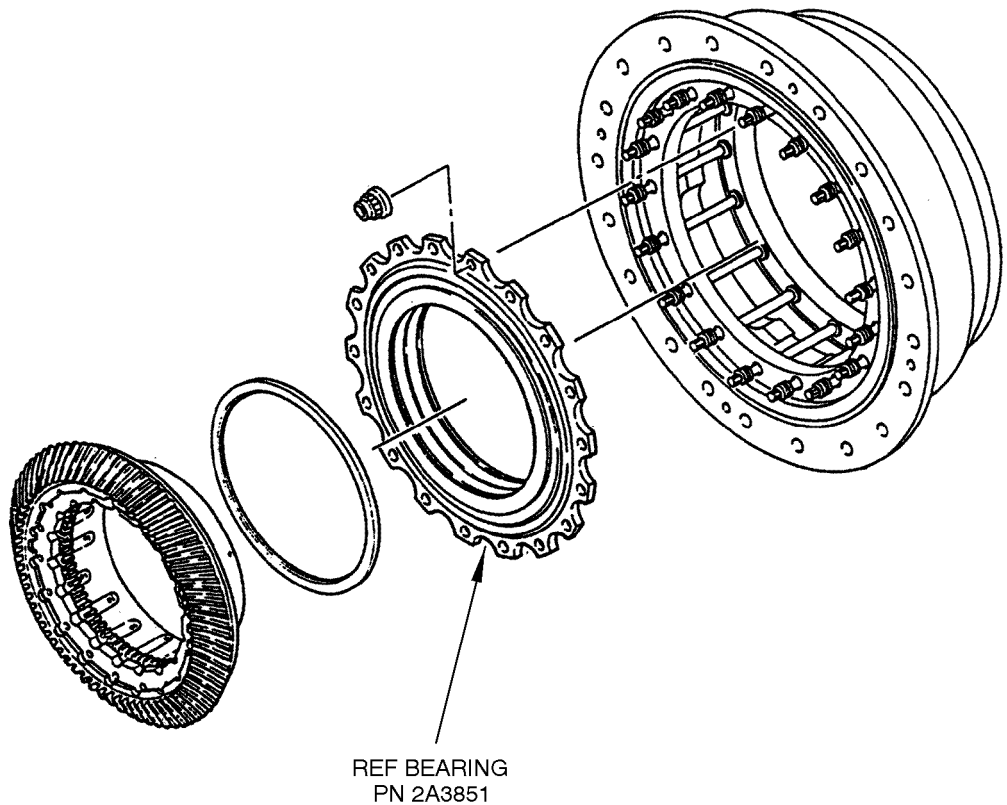
Not Applicable.

3. Accomplishment Instructions.

None.



MODULE 32



REF BEARING
PN 2A3851

ENGINE - NO. 3 BEARING OPTION
72-32-24
FIGURE 1

pw06520656

INFORMATION – ENGINE – PROVIDE A NEW NO. 3 BEARING OPTIONSUPPLEMENT – PRICES AND AVAILABILITY1. Modification Kit:

There is no kit provided to do this Service Bulletin.

2. Material Cost:

NOTE: The prices 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.

The estimated price of new material to do this Service Bulletin using new replacement parts is \$ 31,500.00.

3. New Production Parts:

Part No.	Description	Unit Price US Dollars
2A4235	No. 3 Bearing Option	\$ 31,500.00

Added Data

Internal Reference Information

Revision No.	Reference Document	Origination
Original	EC 05VA059L	RG/TR