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V2500-A1/A5 SERIES PROPULSION SYSTEM INFORMATION SERVICE BULLETIN

This document transmits the Revision 7 of Service Bulletin V2500-ENG-70-0522.

Document History

Service Bulletin Revision Status

| | |
|---------------|-----------|
| Initial Issue | Apr.30/97 |
| Revision 1 | Jun.30/99 |
| Revision 2 | Oct.14/02 |
| Revision 3 | Jan.20/04 |
| Revision 4 | Feb.22/06 |
| Revision 5 | Aug.18/06 |
| Revision 6 | Feb.22/08 |

Service Bulletin Revision 7

| Remove | Incorporate | Reason for change |
|------------------------------------|---------------------------------------|--------------------------------------------------------------------------------|
| All pages of the Service Bulletin. | Pages 1 to 5 of the Service Bulletin. | To allow the use of the introduced Stage 4 and 5 Airseals on V2500-A1 engines. |

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

IAE PROPRIETARY INFORMATION

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All pages of the
Supplement.

Page 1 of the
Supplement.

To update the prices.

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IAE PROPRIETARY INFORMATION

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INFORMATION – ENGINE – LP TURBINE – TO ANNOUNCE THE AVAILABILITY OF IMPROVED STAGE 3,
5, 7 TURBINE DISKS AND AIRSEALS STAGE 4 AND 5

1. Planning Information

A. Effectivity

- R (1) Airbus A319
- R (a) V2522-A5, V2524-A5, V2527M-A5 Engines prior to Serial No. V10198 (A5
R Standard and A5 SelectOne™ Retrofit Standard).
- R (2) Airbus A320
- R (a) V2500-A1 Engines prior to Serial No. V0362.
- R (b) V2527-A5, V2527E-A5 Engines prior to Serial No. V10198 (A5 Standard
R and A5 SelectOne™ Retrofit Standard).
- R (3) Airbus A321
- R (a) V2530-A5 Engines prior to Serial No. V10198 (A5 Standard and A5
R SelectOne™ Retrofit Standard).

B. Reason

- R (1) To announce the availability of improved LP turbine disks stage 3, 5, 7
and stage 4 and 5 air seals. These parts have been modified to fulfill the
requirements of the increased thrust version V2533-A5.
- (2) For commonality reasons stage 3 and 5 disks are released for A5 and A1 as
shown in the Material Information.

C. Compliance

Category Code 7

Accomplish when supply of superseded parts has been depleted.

D. Approval

- R The part number changes and/or part modification described in sections 2 and 3
R of this Service Bulletin have been shown to comply with the applicable Federal
Aviation Regulations and are FAA-APPROVED for the engine models listed.

E. General Information

- R The Material Information Section of this Service Bulletin provides the latest
information concerning the affected parts.

F. References

- R (1) Internal References: Engineering Change No. 95VM009, 95VM009A and
R 95VM009B.
- (2) ATA Location: 72-50-31 and 72-50-33.

2. Material Information

A. The kit required consists of the following parts:

None.

B. New production parts:

R See supplement of this Service Bulletin.

C. Parts Affected by this Service Bulletin:

R For V2500-A1 Engines only

R 72-50-31

| | FIG ITEM NO. | NEW PART NO. | QTY | PART TITLE | OLD PART NO. | INSTR DISP |
|---|--------------------|--------------------|-----|----------------------------|--------------------|---------------|
| R | 01-100 | 3A2430 | 1 | Disk, Turbine Stage 5 | 3A2153 | (A)(B)(1) |
| R | 01-200 | 3A2428 | 1 | Disk, Turbine Stage 3 | 3A2151 | (A)(B)(1) |
| R | 72-50-33 | | | | | |
| R | 01-100 | 3A2423 | 1 | Seal, Air, Turbine Stage 5 | 3A1985 | (A)(C)(1)(3) |
| R | 01-150 | 3A2422 | 1 | Seal, Air, Turbine Stage 4 | 3A1983 | (A)(C)(1)(3) |

R For V2500-A5 Engines, 22-30k only

72-50-31

| | | | | | | |
|---|--------|--------|---|-----------------------|--------|-----------------|
| R | 01-010 | 3A2424 | 1 | Disk, Turbine Stage 7 | 3A1987 | (A)(B)(2)(4)(5) |
| R | 01-100 | 3A2430 | 1 | Disk, Turbine Stage 5 | 3A2153 | (A)(B)(2)(4)(5) |
| R | 01-200 | 3A2428 | 1 | Disk, Turbine Stage 3 | 3A2151 | (A)(B)(2)(4)(5) |

72-50-33

| | | | | | | |
|---|--------|--------|---|----------------------------|--------|-----------------|
| R | 01-100 | 3A2423 | 1 | Seal, Air, Turbine Stage 5 | 3A1985 | (A)(C)(2)(4)(5) |
| R | 01-150 | 3A2422 | 1 | Seal, Air, Turbine Stage 4 | 3A1983 | (A)(C)(2)(4)(5) |

R For V2500-A5 Engines, 33k only

72-50-31

| | FIG ITEM NO. | NEW PART NO. | QTY | PART TITLE | OLD PART NO. | INSTR DISP |
|---|--------------------|--------------------|-----|-----------------------|--------------------|---------------|
| R | 01-100 | 3A2430 | 1 | Disk, Turbine Stage 5 | - | (A) |
| R | 01-200 | 3A2428 | 1 | Disk, Turbine Stage 3 | - | (A) |
| R | 01-010 | 3A2424 | 1 | Disk, Turbine Stage 7 | - | (A) |

72-50-33

| | | | | | | |
|---|--------|--------|---|------------------------------|--|-----|
| R | 01-100 | 3A2423 | 1 | Seal, Air, Turbine Stage 5 - | | (A) |
| R | 01-150 | 3A2422 | 1 | Seal, Air, Turbine Stage 4 - | | (A) |

D. Instruction Disposition Code:

(A) New part is currently available for sale

(B) Old part will continue to be supplied until the existing stock is exhausted

(C) Old part will continue to be supplied

(1) Old and new parts are fully interchangeable.

(2) CAUTION: Old parts (2) are limited to 30k thrust rating and must not be used for 33k operation.

(3) New part may be used alternatively to overcome spare shortage. For the use of the new parts coded (3) consider the different prices.

R (4) New part may be fitted in lieu of old part but not vice versa.

R (5) Reidentify the LP turbine module, if applicable (refer to Section 3 of this
R Service Bulletin).

CAUTION: APPLY RESPECTIVE MODULE NUMBER ACCORDING TO BUILD STANDARD OF THE
MODULE.

3. Accomplishment Instructions

- A. Reidentify V2500-A5 Engines existing LP turbine module number as subsequent given

R **NOTE:** The re-identification of the LP turbine module only applies to engines
R which have all parts coded (5) replaced (refer to the Material
R Information of this Service Bulletin).

- (1) Reidentify the LP turbine module Cross out old part number and
reidentify the module with the new
number as given below.
Refer to SPP TASK 70-09-00-400-501.
Use vibropeening method.

A5 Engines

NEW PART NUMBER
4W6243

OLD PART NUMBER
4W6423

INFORMATION - ENGINE - LP TURBINE - TO ANNOUNCE THE AVAILABILITY OF IMPROVED STAGE 3,
5, 7 TURBINE DISKS AND AIRSEALS STAGE 4 AND 5

SUPPLEMENT - PRICES AND AVAILABILITY

The prices if shown 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.

1. Modification Kit:

Not applicable.

2. New Production Parts:

| | Part No. | Desc. | Unit Price US Dollars |
|---|----------|--------------------------|--------------------------|
| R | 3A2430 | Disk,turbine,stage 5 | 70,660.00 |
| R | 3A2428 | Disk,turbine,stage 3 | 65,700.00 |
| R | 3A2424 | Disk,turbine,stage 7 | 77,660.00 |
| R | 3A2422 | Seal,air turbine,stage 4 | 86,900.00 |
| R | 3A1983 | Seal,air turbine,stage 4 | 41,680.00 |
| R | 3A2423 | Seal,air turbine,stage 5 | 84,590.00 |
| R | 3A1985 | Seal,air turbine,stage 5 | 39,580.00 |