



ENGINE - LP TURBINE ROTOR - INTRODUCTION OF NEW STAGE 3 AND 7 TURBINE DISKS FOR FULL LIFE - CATEGORY CODE 7 - MOD.ENG-72-0307

1. Planning Information

A. Effectivity

- (1) Aircraft: Airbus A319
Airbus A320
Airbus A321
Mc Donnell Douglas MD90
- (2) Engine: V2500-A1
V2522-A5
V2524-A5
V2527-A5
V2527E-A5
V2530-A5
V2533-A5
V2525-D5
V2528-D5

B. Reason

(1) Condition

Inspection of some new stage 3 and 7 turbine disks prior to production assembly revealed some unacceptable protruded material around the edges of the blade slots. It is required to have proper rounded slot edges prior shot peening.

(2) Background

The non conformance was detected on new production disks. Review of the production records has shown that the condition may exist on stage 3 and 7 disks. Analytical review showed that this non conformance may affect the life of the parts.

(3) Objective

The reason of this Service Bulletin is to announce the availability of new LP turbine disks stage 3 and 7 with the full Chapter 5 life of 20,000 LCF cycles. For proper tracking reasons new part numbers have to be introduced.

(4) Substantiation

Analytical review showed that the new disks with the proper rounded slot edges have full certified life.

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(5) Effects of Bulletin on Workshop Procedures:

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

(6) Supplemental Information

An additional Service Bulletin will be issued which provides more information about the disks stage 3 and 7 which are currently in service.

C. Description

This Service Bulletin introduces a new disk stage 3 and 7 with full life.

D. Approval

The partnumber 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(s) listed.

E. Compliance

Category Code 7

Accomplish when supply of superseded parts has been depleted.

F. Manpower

Not applicable

G. Material – Price and Availability

(1) Modification kit not required. Parts are supplied as single line items.

(2) See "Material Information" section for prices and availability of future spaces.

H. Tooling – Price and Availability

Special tools are not required to accomplish this Service Bulletin.

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 (PPS)100)

J. Electrical Load Data

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

K. References

- (1) Internal Reference No.

EC97VM027

EC97VM027-01

- (2) Other References

IAE V2500 Service Bulletins:

V2500-ENG-72-0157 (Engine - LP Turbine Assembly - Introduction of LP Turbine Disks Stage 3 and 5 with Shotpeened Blade Slots)

V2500-ENG-72-0520 (Information - Engine to Announce the Availability of an Improved Stage 3 Turbine Disk into V2500 D5 Engines for Commonality)

V2500-ENG-72-0521 (Information - Engine to Announce the Availability of an Improved Stage 7 Turbine Disk into V2500 D5 Engines for Commonality)

V2500-ENG-72-0522 (Information - Engine to Announce the Availability of an Improved Stage 3, 5 and 7 Turbine Disk and Airseal Stage 4 and 5 into V2500 A1 and A5 Engines for Commonality Reasons)

The V2500 Engine Illustrated Parts Catalog (S-V2500-1IA, S-V2500-2IA and S-V2500-3IA, Chapter/Section 72-50-31

The V2500 Engine Manual (E-V2500-1IA), Chapter/Section 72-50-31

The V2500 Engine Manual (E-V2500-3IA), Chapter/Section 72-50-31

L. Other Publications Affected

- (1) The V2500 Engine Illustrated Parts Catalog, Chapter/Section 72-50-31 to add the new part.
- (2) The V2500 Engine Manual, Chapter/Section 72-50-31 Cleaning, Inspection, Repair to add the new part number.
- (3) The V2500-D5 Engine Manual, Chapter/Section 72-50-31 Cleaning, Inspection, Repair to add the new part number.

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International Aero Engines

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2. Accomplishment Instructions

Not applicable

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3. Material Information

Applicability: For each V2500 engine to incorporate this Bulletin.

A. Kits associated with this Bulletin

None

B. Parts affected by this Bulletin

New Part No. (ATA No.)	Qty	Est'd Unit Price (\$)	Keyword	Old Part No. (IPC No.)	Supply Status
3A2512 (72-50-31)	1	--	Disk Turbine Stage 7	3A2424 (01-010)	(A)(B)(S1)
3A2508 (72-50-31)	1	--	Disk Turbine Stage 3	3A2428 (01-200)	(A)(B)(S1)

C. Instruction/Disposition Code Statement

(A) Old part will no longer be supplied

(B) The new part is currently available

(S1) Old and new parts are not interchangeable, but the new may fitted in lieu of the replaced part but not vice-versa.

NOTE: The estimated 1998 unit prices shown are provided for planning purposes only and do not constitute a firm quotation. Consult the IAE Price Catalog or contact IAE's Spare Parts Sales Department for information concerning firm prices.

