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V2500-A1/A5/D5 SERIES PROPULSION SYSTEMS SERVICE BULLETIN

Printed in Great Britain

This document transmits Revision 1 to Service Bulletin EV2500-72-0466

Document History

Service Bulletin Revision Status
Initial Issue Jan.28/04

Supplement Revision Status

Bulletin Revision 1

Remove
All pages of the
Service Bulletin

Incorporate
Pages 1 to 9 of the
Service Bulletin

Reason for change
To add ATA Locator to
References.

V2500-ENG-72-0466

Transmittal - Page 1 of 2

CHECK THAT ALL PREVIOUS TRANSMITTALS HAVE BEEN INCORPORATED

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LIST OF EFFECTIVE PAGES

The effective pages to this Service Bulletin following incorporation of Revision 1 are as follows:

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ENGINE - LP TURBINE - DELETION OF ENGINE MANUAL REQUIREMENTS FOR MEASUREMENT OF CLEARANCES DURING LP TURBINE ASSEMBLY

1. Planning Information

A. Effectivity

- (1) Airbus A319
V2522-A5, V2524-A5 Engines
- (2) Airbus A319CJ
V2527M-A5 Engines
- (3) Airbus A320
 - (a) V2500-A1 Engines
 - (b) V2527-A5, V2527E-A5 Engines
- (4) Airbus A321
V2530-A5, V2533-A5 Engines
- (5) Boeing - Longbeach Division MD-90
V2525-D5, V2528-D5 Engines

B. Concurrent Requirements

None.

C. Reason

(1) Problem

The measurement of the clearances and the subsequent documentation was a requirement for the development engine assembly and carried over to maintenance assembly. Many OTCs have been released to accept clearances beyond the EM-Clearance requirements.

(2) Evidence

Engine Manual (EM) piece part limits have been met but this contains certain wear allowance which is not contained in the EM clearance requirements. To correct this discrepancy it has been determined that Engine Manual clearance measurement during LP Turbine assembly is no longer necessary and can be deleted from Engine Manual instructions.



(3) Substantiation

- (a) Piece part limits include certain wear allowance which were not considered in the Engine Manual clearance requirements.
- (b) During LP Turbine Assembly, clearances were measured beyond EM requirements.
- (c) Many OTC have been released to accept clearances beyond EM requirements.

(4) Objective

Deletion of requirements for the following clearance measurements from the Engine Manual:

- (a) LPT Rotor Stages 3 to 7, clearance between blades and shroud seal segments.
- (b) LPT Stator Stage 3, clearance between rotating airseal and airseal ring.
- (c) LPT Stator Stages 4 to 7, clearance between rotating airseals and turbine vanes.

(5) Effect of Bulletin on:

(a) Operation

Not affected.

(b) Maintenance

Not affected.

(c) Overhaul

Not affected.

(d) Repair Schemes

Not affected.

(e) Interchangeability

Not affected.

(f) Fits and Clearances

Not affected.



D. Description

(1) The changes introduced are:

(a) This Service Bulletin introduces the deletion of clearance measurements at the locations listed in Section 2 Material Information.

E. Compliance

Category Code 8

Accomplish based upon experience with the prior configuration.

F. Approval

The part number changes and/or part modification 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 Models listed.

G. Manpower

(1) In service

Not applicable.

(2) At overhaul

Not applicable.

H. Material Price and Availability

Not applicable.

I. Tooling Price and Availability

None.

J. Industry Support Information

None.

K. Weight and Balance

(1) Weight Change

None.

(2) Moment Arm

None.



(3) Datum

Not applicable.

L. Electrical Load Data

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

M. Software Accomplishment Summary

Not applicable.

N. References

R (1) Engineering Change 03VM012 and 03VM012A.

R (2) ATA Locator - 72-50-10.

O. Other Publications Affected

None.

P. Interchangeability of Parts

Not applicable.



2. Material Information

A. The kit required consists of the following parts:

None.

B. Engine Manual Sections affected by this Service Bulletin:

V2500-A1/A5

TASK/SUBTASK/FIG	Location	Model
TASK 72-50-10-430-051-A00		A1
SUBTASK 72-50-10-220-051-A00	3305	A1
SUBTASK 72-50-10-220-051-B00	3605	A1
SUBTASK 72-50-10-220-052-A00	3306	A1
SUBTASK 72-50-10-220-052-B00	3606	A1
SUBTASK 72-50-10-220-091-A00	3336	A1
SUBTASK 72-50-10-220-091-B00	3636	A1
SUBTASK 72-50-10-220-092-A00	3338	A1
SUBTASK 72-50-10-220-092-B00	3638	A1
FIG 72-50-10-990-033-001(Fig 1004 Sheet 1)		A1
FIG 72-50-10-990-033-002(Fig 1004 Sheet 2)		A1

TASK/SUBTASK/FIG	Location	Model
TASK 72-50-10-430-002-B00		A5
SUBTASK 72-50-10-220-106	3705	A5
SUBTASK 72-50-10-220-107	3706	A5
SUBTASK 72-50-10-220-108	3736	A5
SUBTASK 72-50-10-220-109	3738	A5
FIG 72-50-10-990-126(Fig 1004)		A5



TASK/SUBTASK/FIG	Location	Model
TASK 72-50-10-430-004		A1/A5
SUBTASK 72-50-10-220-053-A00	3311	A1
SUBTASK 72-50-10-220-053-B00	3611	A1
SUBTASK 72-50-10-220-053-C00	3711	A5
SUBTASK 72-50-10-220-054-A00	3312	A1
SUBTASK 72-50-10-220-054-B00	3612	A1
SUBTASK 72-50-10-220-054-C00	3712	A5
SUBTASK 72-50-10-220-093-A00	3342	A1
SUBTASK 72-50-10-220-093-B00	3642	A1
SUBTASK 72-50-10-220-093-C00	3642	A1
SUBTASK 72-50-10-220-093-D00	3742	A5
SUBTASK 72-50-10-220-093-E00	3742	A5
FIG 72-50-10-990-056-001(Fig 1005 Sheet 1)		A1
FIG 72-50-10-990-056-002(Fig 1005 Sheet 2)		A1
FIG 72-50-10-990-133 (Fig 1006)		A5

TASK/SUBTASK/FIG	Location	Model
TASK 72-50-10-430-006		A1/A5
SUBTASK 72-50-10-220-055-A00	3317	A1
SUBTASK 72-50-10-220-055-B00	3617	A1
SUBTASK 72-50-10-220-055-C00	3717	A5
SUBTASK 72-50-10-220-056-A00	3318	A1
SUBTASK 72-50-10-220-056-B00	3618	A1
SUBTASK 72-50-10-220-056-C00	3718	A5
SUBTASK 72-50-10-220-095-A00	3348	A1
SUBTASK 72-50-10-220-095-B00	3648	A1
SUBTASK 72-50-10-220-095-C00	3648	A1
SUBTASK 72-50-10-220-095-D00	3748	A5
SUBTASK 72-50-10-220-095-E00	3748	A5
FIG 72-50-10-990-064-001(Fig 1005 Sheet 1)		A1
FIG 72-50-10-990-064-002(Fig 1005 Sheet 2)		A1
FIG 72-50-10-990-135 (Fig 1006)		A5



TASK/SUBTASK/FIG	Location	Model
TASK 72-50-10-430-008		A1/A5
SUBTASK 72-50-10-220-057-A00	3324	A1
SUBTASK 72-50-10-220-057-B00	3624	A1
SUBTASK 72-50-10-220-057-C00	3724	A5
SUBTASK 72-50-10-220-058-A00	3354	A1
SUBTASK 72-50-10-220-058-B00	3354	A1
SUBTASK 72-50-10-220-059-C00	3654	A1
SUBTASK 72-50-10-220-058-D00	3654	A1
SUBTASK 72-50-10-220-058-E00	3754	A5
SUBTASK 72-50-10-220-058-F00	3754	A5
FIG 72-50-10-990-071-001(Fig 1006 Sheet 1)		A1
FIG 72-50-10-990-071-002(Fig 1006 Sheet 2)		A1
FIG 72-50-10-990-136 (Fig 1007)		A5

TASK/SUBTASK/FIG	Location	Model
TASK 72-50-10-430-010		A1/A5
SUBTASK 72-50-10-220-059-A00	3325	A1
SUBTASK 72-50-10-220-059-B00	3625	A1
SUBTASK 72-50-10-220-059-C00	3725	A5
SUBTASK 72-50-10-220-060-A00	3328	A1
SUBTASK 72-50-10-220-060-B00	3628	A1
SUBTASK 72-50-10-220-060-C00	3728	A5
SUBTASK 72-50-10-220-061-A00	3360	A1
SUBTASK 72-50-10-220-061-B00	3360	A1
SUBTASK 72-50-10-220-061-C00	3660	A1
SUBTASK 72-50-10-220-061-D00	3660	A1
SUBTASK 72-50-10-220-0061-E00	3760	A5
SUBTASK 72-50-10-220-0061-F00	3760	A5
FIG 72-50-10-990-079-001(Fig 1006 Sheet 1)		A1
FIG 72-50-10-990-079-002(Fig 1006 Sheet 2)		A1
FIG 72-50-10-990-137 (Fig 1007)		A5



V2500-D5

TASK/SUBTASK/FIG	Location	Model
TASK 72-50-10-430-002		D5
SUBTASK 72-50-10-220-106	3705	D5
SUBTASK 72-50-10-220-107	3706	D5
SUBTASK 72-50-10-220-108	3736	D5
SUBTASK 72-50-10-220-109	3738	D5
FIG 72-50-10-990-126 (Fig 1004)		D5

TASK/SUBTASK/FIG	Location	Model
TASK 72-50-10-430-004		D5
SUBTASK 72-50-10-220-053	3711	D5
SUBTASK 72-50-10-220-054	3712	D5
SUBTASK 72-50-10-220-093-A00	3742	D5
SUBTASK 72-50-10-220-093-B00	3742	D5
FIG 72-50-10-990-133 (Fig 1005)		D5

TASK/SUBTASK/FIG	Location	Model
TASK 72-50-10-430-006		D5
SUBTASK 72-50-10-220-055	3717	D5
SUBTASK 72-50-10-220-056	3718	D5
SUBTASK 72-50-10-220-095-A00	3748	D5
SUBTASK 72-50-10-220-095-B00	3748	D5
FIG 72-50-10-990-135 (Fig 1005)		D5

TASK/SUBTASK/FIG	Location	Model
TASK 72-50-10-430-008		D5
SUBTASK 72-50-10-220-057	3724	D5
SUBTASK 72-50-10-220-058-A00	3754	D5
SUBTASK 72-50-10-220-058-B00	3754	D5
FIG 72-50-10-990-136 (Fig 1006)		D5



TASK/SUBTASK/FIG	Location	Model
TASK 72-50-10-430-010		D5
SUBTASK 72-50-10-220-059	3725	D5
SUBTASK 72-50-10-220-060	3728	D5
SUBTASK 72-50-10-220-061-A00	3760	D5
SUBTASK 72-50-10-220-061-B00	3760	D5
FIG 72-50-10-990-137 (Fig 1006)		D5

C. Instruction Disposition Codes:

Not applicable.

3. Accomplishment Instructions

A. Rework Instructions

Not applicable.

