

International Aero Engines INFORMATION BULLETIN

ENGINE - LP COMPRESSOR - TO ANNOUNCE AVAILABILITY OF
A NEW FAN DISK WITH HEAVY SHANK NUT FOR BALANCING

MODEL APPLICATION

V2500-A1
V2522-A5
V2524-A5
V2527-A5
V2527E-A5
V2530-A5
V2533-A5
V2525-D5
V2528-D5

BULLETIN INDEX LOCATOR

72-31-00

Compliance Category Code

7

Internal Reference No.

EC97VJ018

May. 8/99

V2500-ENG-70-0712

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**ENGINE - LP COMPRESSOR - TO ANNOUNCE AVAILABILITY OF
A NEW FAN DISK WITH HEAVY SHANK NUT FOR BALANCING**

A. Effectivity

(1) Aircraft:

- (a) Airbus A319**
- (b) Airbus A320**
- (c) Airbus A321**
- (d) Boeing-Douglas Product Division MD-90**

(2) Engine:

- (a) V2500-A1 Engines**
- (b) V2522-A5 Engines**
- (c) V2524-A5 Engines**
- (d) V2527-A5 Engines**
- (e) V2527E-A5 Engines**
- (f) V2530-A5 Engines**
- (g) V2533-A5 Engines**
- (h) V2525-D5 Engines**
- (i) V2528-D5 Engines**

B. Reason

To make disk balancing procedure in production easier. Metal machining process for the balancing of the disk is eliminated. For the balancing, the heavy shank nuts and the standard nuts, whose weights are selectable, are distributed on the front and rear flanges.

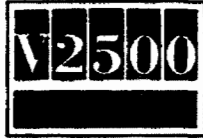
C. Compliance

Category Code 7

Accomplish when there are no original parts remaining.

D. Approval

The part number transactions are given in the Material Information section of this Service Bulletin. They comply with the applicable Federal Aviation Regulations and are FAA-APPROVED for the engine model listed.



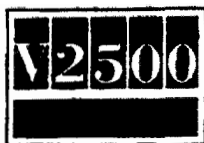
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E. References

IAE Engineering Change No. 97VJ018.

F. General Information

- (1) This modification does not affect the engine balancing procedure in shop and field maintenances.
- (2) The Material Information section of this Service Bulletin gives the latest information about the availability of the stage 1 fan disk, jacking pad pin, shoulder headless pin and self locking shank nuts.
- (3) V2500 Engine Illustrated Parts Catalog, Chapter/Section 72-31-12 will be revised to include the new part numbers.
- (4) V2500 Engine Manual (E-V2500-1IA, 3IA), Chapter/Section 72-31-12, Cleaning-02, Config-1 will be revised to include the new stage 1 fan disk assembly part number.
- (5) V2500 Engine Manual (E-V2500-1IA, 3IA), Chapter/Section 72-31-12, Inspection/Check-02, Config-1 will be revised to include the new stage 1 fan disk assembly part number.
- (6) V2500 Engine Manual (E-V2500-1IA, 3IA), Chapter/Section 72-31-12, Repair VRS1152, VRS1154, VRS1155, VRS1159, VRS1164 will be revised to include the new stage 1 fan disk assembly part number.
- (7) V2500 Engine Manual (E-V2500-1IA, 3IA), Chapter/Section 72-31-12, Repair VRS1157, VRS1158 will be revised to include the new stage 1 fan disk assembly part number and the new Special Repair Parts.
- (8) Time Limits Manual Chapter/Section 5-10-01, (T-V2500-1IA), Config-01, Config-02, Config-03, and Config-04, and (T-V2500-3IA), Chapter/Section 5-10-01, Config-1 and Config-2 will be revised to include the new stage 1 fan disk assembly part number.



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G. Material Information

Applicability: For each V2500 engine for which this Information Bulletin is applicable.

New Part No. (ATA No.)	Qty	Est'd Unit Price(\$)	Keyword	Old Part No. (IPC No.)	Instr. /Disp.
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(1) The following part is for replacement purpose.

5A1757 (72-31-12)	1		.Disk, A/O STG.1 FAN	5A0337 (01-200)	(A) (B) (1) (3)
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(2) The following Special Repair Parts are required to accomplish Repair VRS1158.

5A1823 (72-31-12)	10		.. Pin, Jacking Pad	5A0095 (01-250)	(A) (C) (2) (3)
5A1822 (72-31-12)	7		.. Pin, Shoulder headless	AS44809 (01-280)	(A) (C) (2) (3)

(3) The following Special Repair Parts are required to accomplish Repair VRS1157 for the new fan disk. The new fan disk will have markings adjacent to heavier shank nuts, in order to identity which part number should be installed as a replacement part.

AS27870 (72-31-12)	36		.. Nut, Self Locking Shank, Standard Type, 0.3125 in. (7,938 mm) dia	AS27870 (01-260)	(A) (3)
AS55202-2 (72-31-12)	A/R		.. Nut, Self Locking Shank, Heavy Type, 0.3125 in. (7,938 mm) dia	- (01-262)	(A) (3)
AS55202-5 (72-31-12)	A/R		.. Nut, Self Locking Shank, Heavy Type, 0.3125 in. (7,938 mm) dia	- (01-264)	(A) (3)



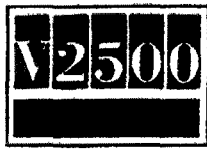
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New Part No. (ATA No.)	Qty	Est'd Unit Price (\$)	Keyword	Old Part No. (IPC No.)	Instr. /Disp.
AS55202-8 (72-31-12)	A/R		..Nut, Self Locking Shank, Heavy Type, 0.3125 in. (7,938 mm) dia	- (01-266)	(A) (3)
AS27870 (72-31-12)	22		..Nut, Self Locking Shank, Standard Type, 0.3125 in. (7,938 mm) dia	AS27870 (01-270)	(A) (3)
AS55202-2 (72-31-12)	A/R		..Nut, Self Locking Shank, Heavy Type, 0.3125 in. (7,938 mm) dia	- (01-272)	(A) (3)
AS55202-5 (72-31-12)	A/R		..Nut, Self Locking Shank, Heavy Type, 0.3125 in. (7,938 mm) dia	- (01-274)	(A) (3)
AS55202-8 (72-31-12)	A/R		..Nut, Self Locking Shank, Heavy Type, 0.3125 in. (7,938 mm) dia	- (01-276)	(A) (3)

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 Parts Sales Department.

H. Instruction/Disposition Code Statements:

- (A) New part is currently available.
- (B) Old part will continue to be supplied until the existing stock has been exhausted.
- (C) Old part will continue to be supplied.
- (1) Old and new parts are freely and fully interchangeable, both physically and functionally.



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- (2) New parts coded (2) may be used in place of old parts coded (2), but not vice-versa.
- (3) New parts coded (3) must replace old parts coded (3) as a COMPLETED SET per engine.