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V2500-A5 SERIES PROPULSION SYSTEMS SERVICE BULLETIN

This document transmits the Revision 1 of Service Bulletin V2500-ENG-72-0587 and the Revision 1 of the Supplement.

Document History

Service Bulletin Revision Status		Supplement Revision Status	
Initial Issue	Apr. 1/09	Initial Issue	Apr. 1/09

Service Bulletin Revision 1

Remove	Incorporate	Reason for change
All Pages of the Service Bulletin.	Pages 1 to 7 of the Service Bulletin.	To revise the Effectivity.
All Pages of the Supplement.	Page 1 of the Supplement.	To update the prices.

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ENGINE – HP COMPRESSOR BLADES – INTRODUCTION OF A STAGE 5 ROTOR BLADE WITH REVISED AEROFOIL POSITION

1. Planning Information

A. Effectivity

(1) Airbus A319

R (a) V2522-A5, V2524-A5, V2527M-A5 Engines prior to Serial No. V15137 and
R Engines with Serial No. V15138, V15141 and V15163 (A5 SelectOne™ Retrofit and Production Standard).

(2) Airbus A320

R (a) V2524-A5, V2527-A5, V2527E-A5 Engines prior to Serial No. V15137 and
R Engines with Serial No. V15138, V15141 and V15163 (A5 SelectOne™ Retrofit and Production Standard).

(3) Airbus A321

R (a) V2530-A5, V2533-A5 Engines prior to Serial No. V15137 and Engines with
R Serial No. V15138, V15141 and V15163 (A5 SelectOne™ Retrofit and Production Standard).

NOTE: Engines of pre Service Bulletin V2500-ENG-72-0565 standard are not affected.

B. Concurrent Requirements

None.

C. Reason

(1) Condition

All High Pressure (HP) compressor stage 5 rotor blades of Service Bulletin ENG-72-0560 standard have been manufactured with an offset between the aerofoil and the blade root datum. This blade design can be improved.

(2) Background

The problem has been observed during engineering review.

(3) Objective

Incorporation of this Service Bulletin is designed to maintain reliability.

(4) Substantiation

The changes introduced by this Service Bulletin were the subject of satisfactory engineering analysis. This Service Bulletin complies with the applicable engine certification basis.

(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.

(6) Supplementary Information

None.

D. Description

This Service Bulletin introduces a HP compressor stage 5 rotor blade with revised aerofoil to root position. Apart from this change, the old and the new blades are identical.

E. Compliance

Category Code 6

Accomplish when the subassembly (i.e. modules, accessories, components, build groups) is disassembled sufficiently to afford access to the affected parts and to all affected spare parts.

F. Approval

The part number changes and/or part modifications described in sections 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.

R The authorising IAE documents are EC 08VR008 and EC 08VR008-01.

G. Manpower

(1) In Service

Not applicable.

(2) At Overhaul

Applicable (Hours not affected).

H. Material Price and Availability

Modification kits MKVA572056010 is available to permit accomplishment of this Service Bulletin.

For prices and availability of modification kit and spares, refer to the Supplement to this Service Bulletin.

I. Tooling Price and Availability

Special tools are not required.

J. Industry Support Information

Not applicable.

K. Weight and Balance

(1) Weight Change

None.

(2) Moment Arm

No effect.

(3) Datum

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

L. Electrical Load Data

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

M. Software Accomplishment Summary

Not applicable.

N. References

(1) IAE V2500 Engine Manual (E-V2500-1IA), Chapters 72-00-40, 72-41-00 and 72-41-10.

(2) V2500 Service Bulletin:

V2500-ENG-72-0560 – ENGINE – HIGH PRESSURE (HP) COMPRESSOR – V2500
SELECTONE RETROFIT AND PRODUCTION – HP COMPRESSOR UPGRADE

V2500-ENG-72-0565 – ENGINE – PROVIDE THE REQUIREMENTS FOR MODIFICATION TO
THE V2500 SELECTONE RETROFIT STANDARD

(3) Internal Reference No.

R Engineering Change No. 08VR008 and 08VR008-01.

(4) ATA Locator – 72-41-15.

O. Other Publications Affected

(1) IAE V2500 Engine Illustrated Parts Catalogues (S-V2500-2SA, S-V2500-2SB, S-V2500-5SA, S-V2500-5SB, S-V2500-6SA, S-V2500-6SB, S-V2500-7SA, S-V2500-7SB), Chapter/Section 72-41-15 will include the new part numbers (Refer to 2. Material Information).

(2) IAE V2500 Engine Manuals (E-V2500-1IA) Chapter/Section 72-41-33 Cleaning, Inspection and Repair to add the new part.

P. Interchangeability of Parts

Affected (Refer to paragraph 2.E. Instruction disposition codes).

2. Material Information

A. The kit required consists of the following parts:

Modification kit MKVA572056010 consists of the parts that follow:

PART NO.	QTY	PART TITLE
6B1346	64	.Blade Assembly, Stage 5 HP Compressor

NOTE: The modification kit MKVA572056010 supersedes modification kit MKVA572056005.

B. Parts to be reworked:

None.

C. New production parts:

FIG ITEM NO.	NEW PART NO.	QTY	PART TITLE	MAT	OLD PART NO.	INSTR DISP
72-41-15						
01-800	6B1346	64	.Blade Assembly, Stage 5 HP Compressor	-	6A8736	(A)(B) (S1)(S2)

D. Redundant parts:

None.

E. Instruction disposition codes:

(A) The new parts are available.

(B) Old parts must be scrapped.

(S1) Old and new parts are not interchangeable, but the new part can be fitted in lieu of the old part, but not vice versa.

(S2) The new parts can be fitted as a complete set only.

3. Accomplishment Instructions

A. Rework Instructions

- (1) None.

B. Assembly Instructions

(1) General

- (a) Obey all the WARNINGS and CAUTIONS in the procedures that are referred to.

(b) Consumable Materials

- (i) Refer to the related Manual tasks given in this instruction.

(c) Tools and Equipment

- (i) Refer to the related Manual tasks given in this instruction.

- (2) Remove the High Pressure (HP) compressor assembly from the engine (Refer to the Engine Manual, Chapter 72-00-41).

- (3) Disassemble the HP compressor front cases from the HP compressor rotor assembly (Refer to the Engine Manual, Chapter 72-41-00).

- (4) Disassemble the HP compressor rotor assembly (Refer to the Engine Manual, Chapter 72-41-10)

- (a) Remove the 64 old HP compressor stage 5 rotor blades (72-41-15, 01-800), P/N 6A8736 from the HP compressor stage 5 rotor disk.

- (b) Scrap the old parts locally.

- (5) Assemble the HP compressor rotor assembly (Refer to the Engine Manual, Chapter 72-41-10)

- (a) Install the 64 new HP compressor stage 5 rotor blades (72-41-15, 01-800), P/N 6B1346 to the HP compressor stage 5 rotor disk.

- (6) Assemble the HP compressor front cases to the HP compressor rotor assembly (Refer to the Engine Manual, Chapter 72-41-00).

- (7) Install the HP compressor assembly to the engine (Refer to the Engine Manual, Chapter 72-00-41).

- (8) Make sure that the work area is clean and clear of tools, equipment and other unwanted materials.

C. Recording Instructions

- (1) A record of accomplishment is necessary.

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AEROFOIL POSITION

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:

		Unit Price US Dollars
Part No.	Description	
R MKVA572056010	Modification Kit	\$ 40,960.00

2. New Production Parts:

Part No.	Description	Unit Price US Dollars
6B1346	.Blade Assembly, Stage 5 HP Compressor	P.O.A.

P.O.A. – Price On Application

3. Tools

None.