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V2500-A5/D5 PROPULSION SYSTEMS SERVICE BULLETIN

Printed in Great Britain

This document transmits the Initial Issue of Service Bulletin EV2500-72-0280

Bulletin Initial Issue

Remove

Incorporate
Pages 1 to 7 of the
Service Bulletin

Reason for change
Initial issue

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CHECK THAT ALL PREVIOUS TRANSMITTALS HAVE BEEN INCORPORATED

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LIST OF EFFECTIVE PAGES

The effective pages to this Service Bulletin are as follows:

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ENGINE HP COMPRESSOR RING CASES – INTRODUCTION OF HPC SYSTEM WITH STAGE 12
HEATSHIELDS DELETED

1. Planning Information

A. Effectivity

(1) Airbus A319

V2522-A5, V2524-A5, V2527M-A5 Engines prior to Serial No. 11125

(2) Airbus A320

V2527-A5, V2527E-A5 Engines prior to Serial No. 11125

(3) Airbus A321

V2530-A5, V2533-A5 Engines prior to Serial No. 11125

(4) Boeing – Longbeach Division MD-90

V2525-D5, V2528-D5 Engines prior to Serial No. 20286

(5) ATA Locator 72-41-21

B. Concurrent Requirements

None

C. Reason

(1) Condition

A review of the HP Compressor (HPC) has indicated that the stage 12 heatshield may be deleted.

(2) Background

(See Condition)

(3) Objective

Incorporation of the changes introduced by this Service Bulletin (Modification) is designed to simplify the HP compressor system.

(4) Substantiation

The changes introduced by this Service Bulletin have been the subject of satisfactory engineering assessment, thermal analysis and a successful engine test on representative development engine 804 build 20.

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Not subject to the EAR per 15 C.F.R. Chapter 1, Part 734.3(b)(3).



(5) Effect of Bulletin on:

(a) Operation

Not affected

(b) Maintenance

Not affected

(c) Overhaul

Affected

(d) Repair Schemes

Not affected.

(e) Interchangeability

Not affected.

(f) Fits and Clearances

Not affected.

D. Description

- (1) The HPC Stage 12 heatshield provides thermal protection to the HPC Stage 12 casing flange. Service experience and analysis has shown that thermal protection provided by the HPC Stage 12 heatshield is not required.

The changes introduced are:

The HPC Stage 12 heatshields are deleted. The bolts and spacers for the stage 12 case assembly (previously used to attach the heatshields) will remain unchanged.

- (2) This Service Bulletin is in parts as follows:

Part 1 New production.

Part 2 Application to HP compressors to pre SB72-0292.

E. Compliance

Category Code 7

Accomplish when the supply of superseded parts has been depleted.



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 affected

NOTE: The parts affected by this Service Bulletin are accessible at overhaul

H. Material Price and Availability

(1) Modification kit is not required.

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

I. Tooling Price and Availability

Special tools are not required

J. Industry Support Information

None

K. Weight and Balance

(1) Weight Change

Minus 0.37kg (-0.8lb).

(2) Moment Arm

695mm (27.4in.) Rearwards of Datum.

(3) Datum

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

L. Electrical Load Data

The aircraft electrical load is not affected by this Service Bulletin



M. Software Accomplishment Summary

Not applicable

N. References

(1) Internal reference 01VR010

(2) IAE V2500 Reference Service Bulletin:

72-0292 ENGINE HP COMPRESSOR RING CASES INTRODUCTION OF REVISED STAGE 12 HEATSHIELD ASSEMBLY.

(3) Engine Manual:

(a) 72-41-00:

(i) Disassembly, Config-2 (A5)

(ii) Disassembly (D5)

(iii) Assembly-01, Config-2 (A5)

(iv) Assembly-01 (D5)

(b) 72-41-20:

(i) Assembly-05, Config-2 (A5)

(ii) Assembly-05 (D5)

(iii) Assembly-07, Config-2 (A5)

(iv) Assembly-07 (D5)

O. Other Publications Affected

(1) Illustrated Parts Catalogue (IPC) 2IA, 2IB, 3IA, 3IB, 5IA, 5IB, 6IA, 6IB, 7IA, 7IB will be revised

(2) Engine Manual:

(a) 72-41-00:

(i) Disassembly, Config-2 (A5)

(ii) Disassembly (D5)

(iii) Assembly-01, Config-2 (A5)

(iv) Assembly-01 (D5)



(v) Assembly-07, Config-2 (A5)

(vi) Assembly-07 (D5)

(b) 72-41-20:

(i) Assembly-05, Config-2 (A5)

(ii) Assembly-05 (D5)

P. Interchangeability of Parts

Not Affected



2. Material Information

A. The kit required consists of the parts that follow:

All Engines

72-41-21

Part 1

FIG ITEM NO.	NEW PART NO.	QTY	PART TITLE	MAT	OLD PART NO.	INSTR DISP
04800	-	-	.Shield Assembly, Heat, Stage 12, LH	-	6A6560	(A)
04820	-	-	.Shield Assembly, Heat, Stage 12, RH	-	6A6561	(A)

Part 2

FIG ITEM NO.	NEW PART NO.	QTY	PART TITLE	MAT	OLD PART NO.	INSTR DISP
04800	-	-	.Heatshield, Assembly of, Stage 12 LH	-	6A4265	(A)
04820	-	-	.Heatshield, Assembly of, Stage 12, RH	-	6A4266	(A)

B. Instructions disposition codes:

(A) Redundant part.



3. Accomplishment Instructions

A. Rework Instructions

None

B. Assembly Instructions

The revised HPC system with stage 12 heatshields deleted is interchangeable with existing. Remove the stage 12 heatshields in accordance with current overhaul procedures (72-41-00, 72-41-20, Disassembly and Assembly as listed in 1.N. References).

C. Recording Instructions

- (1) A record of accomplishment is necessary.

