International Aero Engines

SERVICE BULLETIN

AIR - HPT/LPT ACC AIR VALVE ASSEMBLY - REMOVAL OF SEAL RINGS - CATEGORY CODE 4 - MOD.ENG-75-0012

1. Planning Information

A. Effectivity

(1) Aircraft: Airbus A320

(2) Engine: V2500-A1 Engines that have 5W2083 or 5W2162 HPT/LPT ACC air valve assembly installed.

B. Reason

(1) Condition

The seal rings can come out from the valve groove of HPT/LPT ACC air valve assembly. This causes seizure of the HPT/LPT ACC air valve assembly due to jamming of seal rings.

(2) Background

Some operators have experienced above condition. Removal of seal rings has been designed to avoid seizure of the HPT/LPT ACC air valve assembly.

(3) Objective

To prevent seizure of the HPT/LPT ACC air valve assembly.

(4) Substantiation

Substantiation is analytically completed.

(5) Effects of Bulletin on the following shop functions:

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

(6) Supplemental Information

None

C. Description

(1) The changes introduced by this Service Bulletin are as follows:

(a) Ring sets and retaining Pins are to be removed from HPT/LPT valve vanes of existing 5W2083 and 5W2162 HPT/LPT ACC air valve assembly.

(b) 5W2083 (Vendor 5860016-107) HPT/LPT ACC air valve assembly accomplished this Service Bulletin is to be reidentified to 5W2184 (Vendor 5860016-111) HPT/LPT ACC air valve assembly.

(c) 5W2162 (Vendor 5860016-109) HPT/LPT ACC air valve assembly accomplished this Service Bulletin is to be reidentified to 5W2185 (Vendor 5860016-113) HPT/LPT ACC air valve assembly.

D. Approval

The part number change 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 Model listed.

E. Compliance

Category Code 4

Accomplish at the first visit of an engine or a module to a maintenance base capable of compliance with the accomplishment instructions regardless of the planned maintenance action or the reason for engine removal.

F. Manpower

Estimated Manhours to incorporate the full intent of this Bulletin:

Venue		Estimated Manhours
(1) In Service		TOTAL 2 hours 54 mins
(a) To gain access		
(i) Disconnect power supply		5 mins
(ii) Open thrust reverser 'C' ducts		18 mins
(iii) Remove ACC air valve assembly		47 mins
	TOTAL	1 hr 10 mins
(b) To embody		Refer to Parker Hannifin (Service Bulletin 5860016-75-50)
(c) Return to flyable status		

(i)	Install ACC air valve assembly	1 hr 18 mins
(ii)	Close thrust reverser 'C' ducts	21 mins
(iii)	Reconnect power supply	5 mins
	TOTAL	1 hr 44 mins

(2) At overhaul — Refer to Parker Hannifin (Service Bulletin 5860016-75-50)

G. Material - Price and Availability

(1) Modification Kit not required.

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

H. Tooling - Price and Availability

Tool No.	Qty	Description	Function	Avail.
IAE1J13504	1	Puller	Remove Bushes	(1)

(1) Indicates that the Tool Design Aperture Cards is available from IAE.

I. Weight and Balance

(1) Weight change .. .. .. None.

(2) Moment arm .. .. .. No effect.

(3) Datum .. .. Engine front mount centreline (Powerplant Section (P.P.S.) 100)

J. Electrical Load Data

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

K. References

(1) Internal Reference No.

89VJ133

(2) Other references

Parker Hannifin Corporation Service Bulletin 5860016-75-50.

Aircraft Maintenance Manual, 75-24-51 Removal/Installation.

V2500 Standard Practices/Processes Manual, 70-09-00 Marking of Parts.

L. Other Publications Affected

(1) V2500 Engine Illustrated Parts Catalog, 75-24-51.

2. Accomplishment Instructions

A. Prerequisite Instructions

(1) Remove the 5W2083 or 5W2162 HPT/LPT ACC air valve assembly by the approved procedure in Reference (2), Chapter/Section 75-24-51, Removal/Installation.

B. Rework Instructions

(1) Do a modification of the 5W2083 or 5W2162 HPT/LPT ACC air valve assembly and reidentify as 5W2184 or 5W2185 by the approved procedure in Reference (1) and instructions described below:

(a) Reidentify 5W2083 HPT/LPT ACC air valve assembly as 5W2184 by the approved procedure in Reference (3), Chapter/Section 70-09-00 Marking of Parts.

(b) Reidentify 5W2162 HPT/LPT ACC air valve assembly as 5W2185 by the approved procedure in Reference (3), Chapter/Section 70-09-00 Marking of Parts.

C. Fitment Instructions

(1) Install the 5W2184 or 5W2185 HPT/LPT ACC air valve assembly by the approved procedure in Reference (2), Chapter/Section 75-24-51, Removal/Installation.

D. Recording Instructions

(1) A record of accomplishment is necessary.

3. Material Information

New Part No. (ATA No.)	Qty	Est'd Unit Price ($)	Keyword	Old Part No. (IPC No.)	Instructions Disposition
Applicability: For each V2500 Engine to incorporate this Bulletin.					
A. Kits associated with the Bulletin:					
None					
B. Parts affected by this Bulletin:					
MS24665-151 (75-24-51)	1	0.17	Pin, cotter	MS24665-151 (01-110)	(1D)
MS24665-151 (75-24-51)	1	0.17	Pin, cotter	MS24665-151 (01-136)	(1D)
MS24665-151 (75-24-51)	1	0.17	Pin, cotter	MS24665-151 (01-145)	(1D)
5W2185 (75-24-51)	1		Valve assembly, HPT/LPT ACC air	5W2162 (01-100)	(2D)
5W2184 (75-24-51)	1		Valve Assembly, HPT/LPT ACC air	5W2083 (01-100)	(2D)

C. Instruction/Disposition Code Statements:

(1D) Expendable parts required for Bulletin incorporation.
(2D) A modification can be done to the Old Part and it can then be reidentified as the New Part number.

NOTE: The estimated 1990 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.