

# SERVICE BULLETIN

## ENGINE - HP TURBINE ROTOR AND STATOR ASSEMBLY - TO PROVIDE A NEW STAGE 1 HPT AIR SEAL - CATEGORY CODE 8 - MOD.ENG-72-0131

### 1. Planning Information

#### A. Effectivity

- (1) Aircraft: Airbus A320
- (2) Engine: V2500-A1 Engines before Serial No.V0230 except Serial No.s V0223, V0225 and V0227

#### B. Reason

##### (1) Condition

The present Stage 1 HPT Air Seal has two configurations.

##### (2) Background

Not considered necessary.

##### (3) Objective

To provide a new Stage 1 HPT Air Seal which has a revised contour and is common to all V2500 engine models.

##### (4) Substantiation

Analytical review.

##### (5) Effects of Bulletin on Workshop Procedures:

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) Introduce a new Stage 1 HPT Air Seal that is common to all V2500 engine models.

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- (2) For effect on declared life, See Engine Manual, 05-10-01, Group A Parts Lives.

D. Approval

The Part Number Changes and/or part modifications 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 8.

Accomplish based upon experience with the prior configuration.

F. Manpower

Estimated manhours to incorporate the full intent of this Service Bulletin:

Venue	Estimated Manhours
(1) In Service .. .. .	Not applicable
(2) At Overhaul .. .. .	Not applicable

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

None.

I. Weight and Balance

- (1) Weight change .. .. . Plus 0.36 lb (0,16 kg)
- (2) Moment arm .. .. . No effect
- (3) Datum .. .. . Engine front mount centerline  
(Powerplant station P.P.S.100)

J. Electrical Load Data

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

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**K. Reference**

- (1) Internal Reference No.

90VA009

- (2) Other References

V2500 Engine Illustrated Parts Catalog.

V2500 Engine Manual.

**L. Other Publications Affected**

- (1) The V2500 Engine Manual, Chapter/Section 5-10-01, Group A Parts Lives, to add the new part.
- (2) The V2500 Engine Illustrated Parts Catalog, Chapter/Section 72-45-12, Figure 1, to add the new part.
- (3) The V2500 Engine Manual, Chapter/Section 72-45-12, Cleaning, to add the new part.
- (4) The V2500 Engine Manual, Chapter/Section 72-45-12, Inspection, to add the new part.
- (3) The V2500 Engine Manual, Chapter/Section 72-45-12, Repair, to add the new part.



2. Accomplishment Instructions

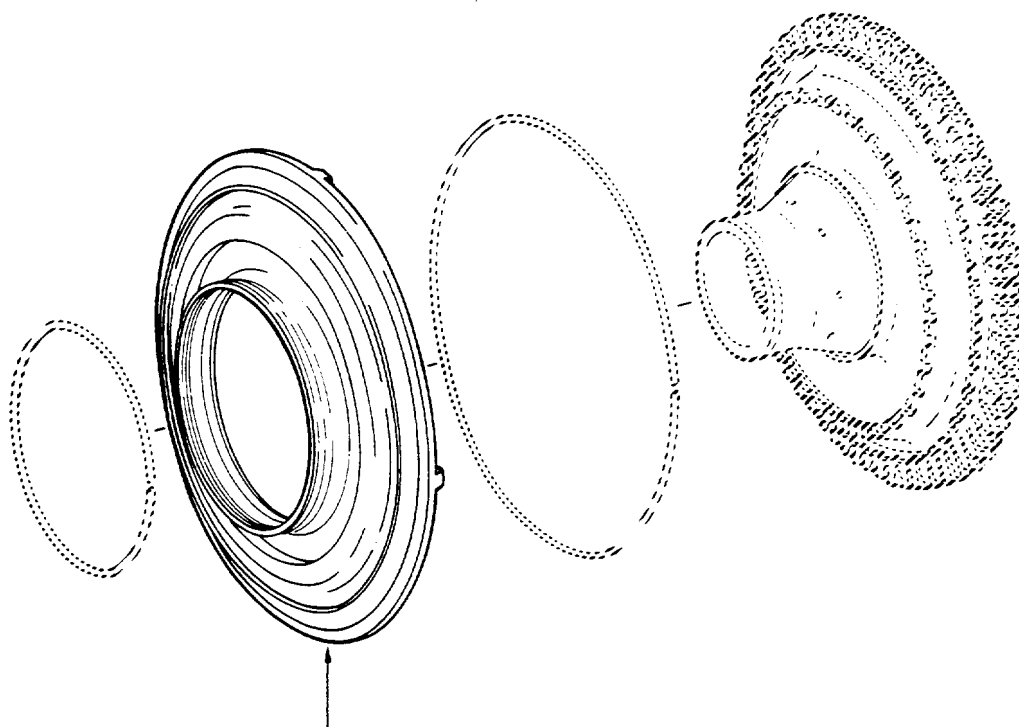
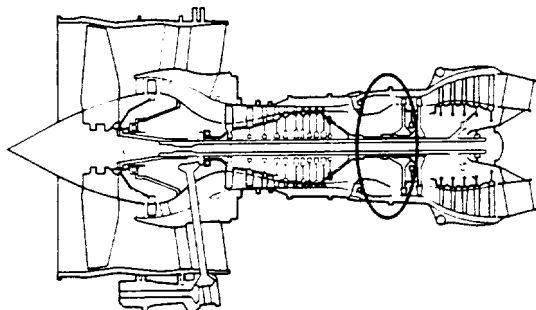
A. Rework Instructions

- (1) There are no rework instructions necessary for this Service Bulletin.

B. Assembly Instructions

- (1) Assemble the HP Turbine Rotor and Stator Assembly by the approved procedures given Reference (2), Chapter/Section 72-45-00, Assembly, Config-1 and Config-2.
- (2) Use the 2A1350 Stage 1 HPT Air Seal.

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REPLACE THE 2A0488 STAGE 1 HPT  
AIR SEAL (1 off), OR 2A1105 STAGE 1  
HPT AIR SEAL (1off) OR THE 2A1271  
STAGE 1 HPT AIR SEAL (1 off) WITH THE  
2A1350 STAGE 1 HPT AIR SEAL (1 off)

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Location of Stage 1 HPT Air Seal  
Fig.1

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3. Material Information

Applicability: For each V2500 Engine to incorporate this Bulletin.

A. Kits associated with this Bulletin

None.

B. Parts affected by this Bulletin:

New Part No. (ATA No.)	Qty.	Est'd Unit Price (\$)	Keyword	Old Part No. (IPC No.)	Instructions Disposition
2A1350 (72-45-12)	1		Seal, Air, Stage 1, HPT	2A0488 (01-040) or 2A1105 (01-040) or 2A1271 (01-040)	(A) (B)  (C)  (B)

C. Instruction/Disposition Code Statements:

- (A) New part is currently available.
- (B) Old part is no longer available for sale.
- (C) Old part was never available for sale as a spare.

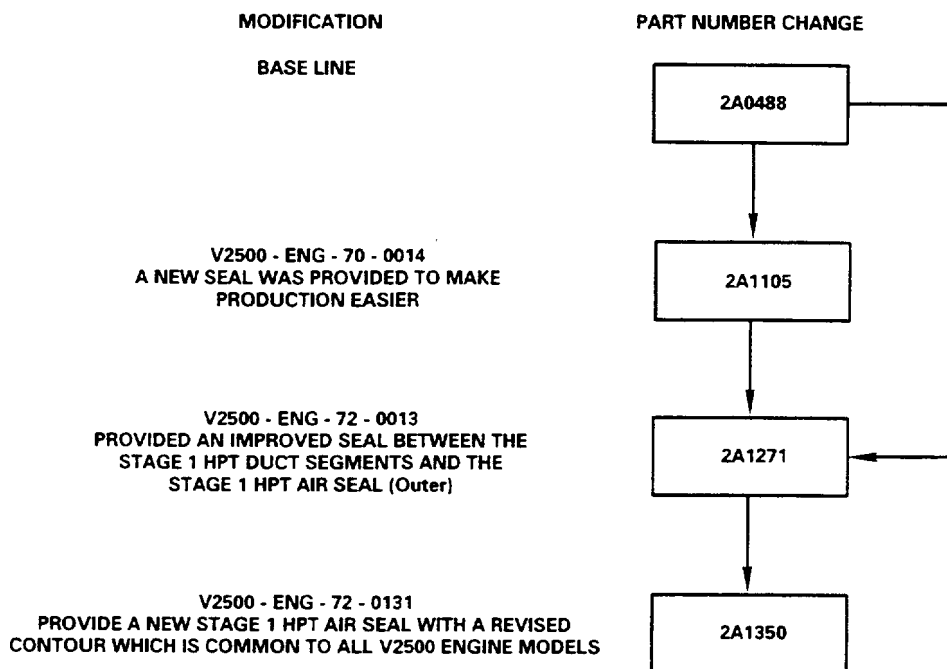
NOTE: The estimated 1992 unit prices shown are provided for planning purposes only and do not constitute a firm quotation. Consult the IAE Price Catalog or contact IAE's Spare Parts Sales Department for information concerning firm prices.

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Family tree - Stage 1 HPT Air Seal  
Fig.2

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