



SERVICE BULLETIN

ENGINE - HIGH PRESSURE TURBINE ROTOR AND STATOR ASSEMBLY - PROVIDE AN INSPECTION FOR
THE STAGE 2 HPT AIR SEAL - CATEGORY CODE 5 - MOD.ENG-72-0272

1. Planning Information

A. Effectivity

- (1) Aircraft: Airbus A320
- (2) Engine: V2500-A1 Engines that incorporate Stage 2 HP Turbine Air Seal 2A-0487 or 2A1159.

NOTE: This Service Bulletin applies to Engines that do not incorporate Reference (1), V2500-ENG-72-0121, Part 2.

B. Reason

Analytical studies have shown that at extreme blue print tolerance the Stage 2 HPT Air Seal could have a flange thickness which would predict a lower than 15k cycle life.

C. Compliance

Category 5

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

D. Approval

The 'compliance' statement and the procedures described in paragraph F 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. References

- (1) IAE V2500 Service Bulletins

V2500-ENG-72-0121 - HP Turbine Rotor and Stator Assembly - Provide New Stage 2 HPT Air Seal Assembly
- (2) V2500 Standard Practices Manual (SPP-V2500-1I-A) Chapter/Section 70-09-00.
- (3) V2500 Engine Manual (E-V2500-1I-A) Chapter/Section 72-45-00 Disassembly and Assembly.

V2500-ENG-72-0272



SERVICE BULLETIN

F. Action

- (1) Disassemble as required to reach the affected Stage 2 HPT airseal that will be inspected. Use the procedure given in Reference (3), Chapter/Section 72-45-00, Disassembly.
- (2) Do an inspection of the 2A0487, 2A1159 Stage 2 HPT Air Seal to find the dimension at location T. See Figures 1 and 2.
 - (a) Remove seals from service, which are less than 0.147 in. (3,734 mm) at location T.
 - (b) You can return seals to service, which are more than or equal to 0.147 in. (3,734 mm) at location T.
 - 1 Mark the Service Bulletin number adjacent to the existing part number. Use the vibration peen method specified in Reference (2), Control No./TASK No. 70-09-00-400-501.
 - 2 It is an FAA requirement to document all inspection results on the accompanying form (page 5) and forward it to IAE as detailed in step (2). (FAX is preferred).
 - (c) The 2A0487 Stage 2 HPT Air Seals (listed by serial number), were measured by the instructions given in All Maintenance Representatives Wire No. 27, dated May 17, 1994, and are above the minimum thickness required for continued service.

SERIAL NUMBER	SERIAL NUMBER	SERIAL NUMBER	SERIAL NUMBER
PA13612	PA13613	PA13619	PA13622
PA13630	PA13637	PA13645	PA13646
PA13773	PA13839	PA13845	PA13846
PA13856	P100749	P100765	P96092
P96098	P96103	P96107	SY7652
SY7657			

- (3) Provide information about the result of the inspection using a copy of page 5 of this Service Bulletin. FAX this information to your V2500 representative or forward to: (FAX is preferred)

V2500-ENG-72-0272



International Aero Engines

SERVICE BULLETIN

IAE INTERNATIONAL AERO ENGINES AG
400 Main Street M/S 169-15
V2500 Technical Services
East Hartford, CT 06108 USA
OR

FAX to:
V2500 Technical Services, Hot Section
FAX # 860-565-0161

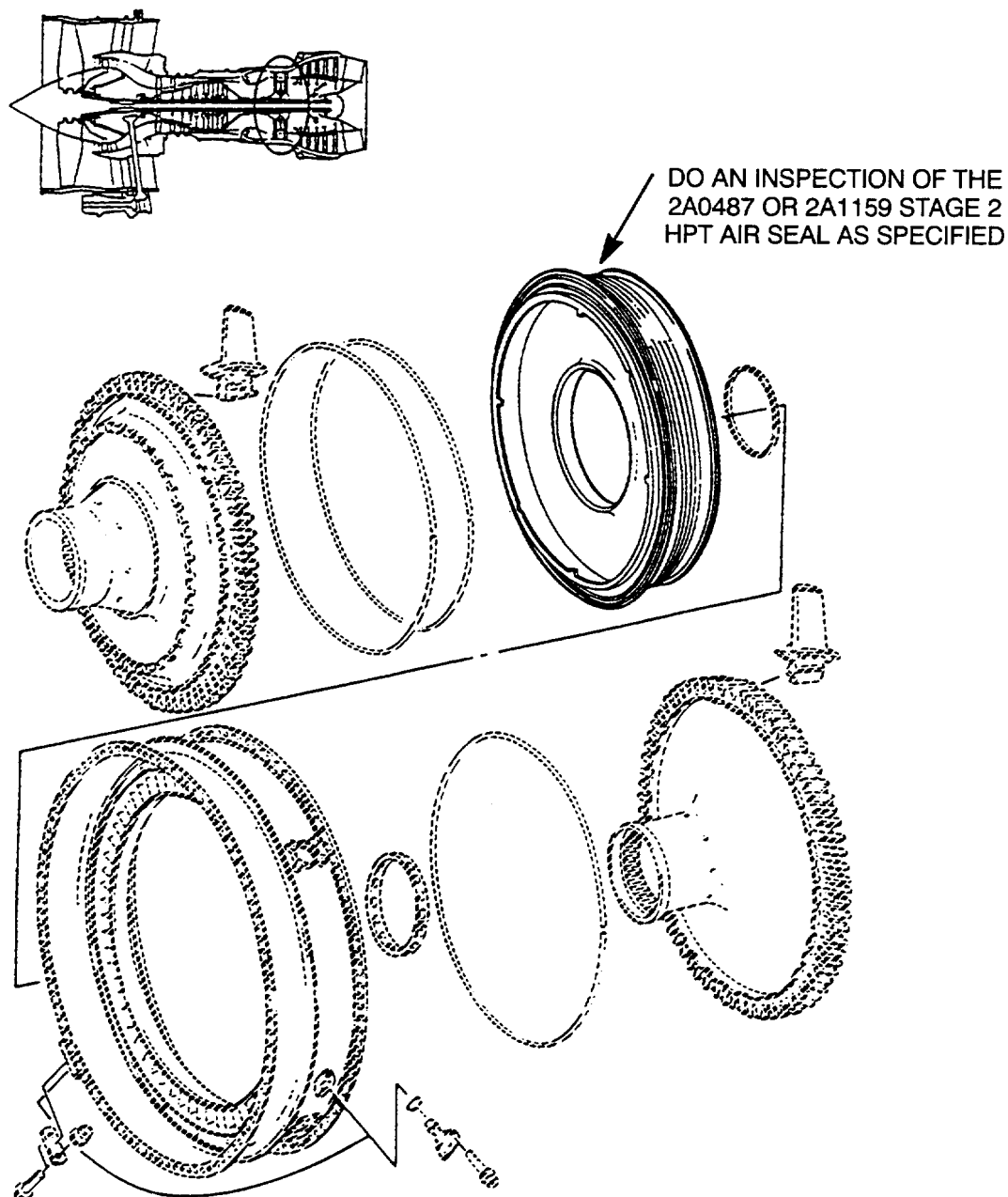
- (4) Assemble by the procedure given in Reference (3), Chapter/Section 72-45-00, Assembly.

Printed in Great Britain

V2500-ENG-72-0272

Feb.28/98

Page 3



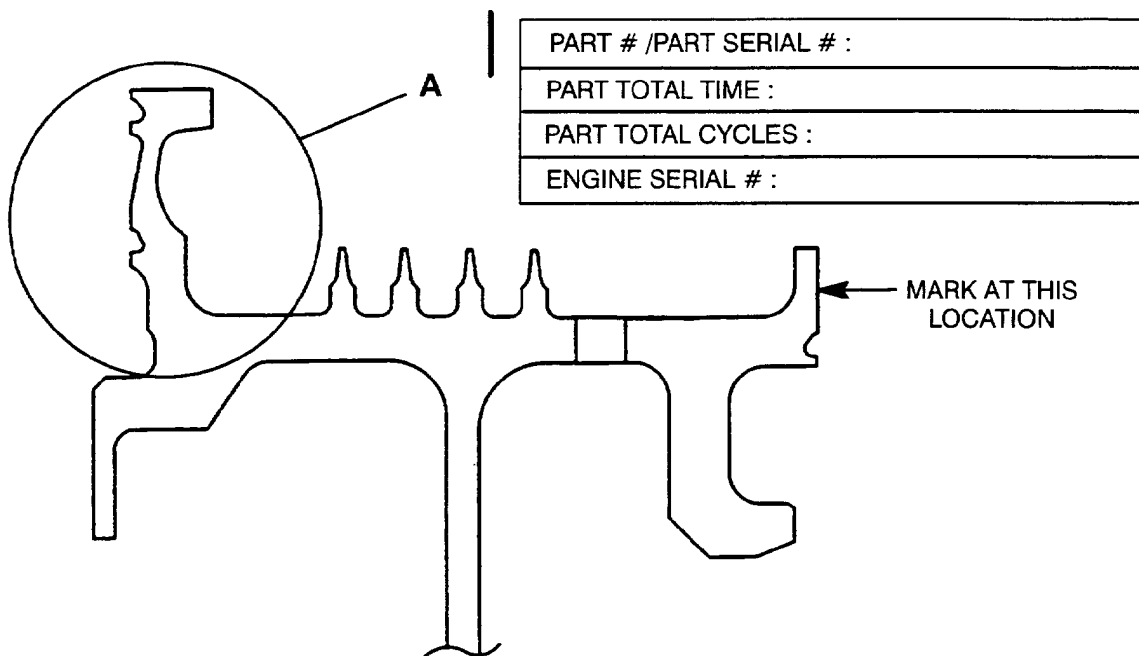
Location of the 2A0487 or 2A1159 Stage 2 HPT Air Seal
Fig.1

de000e7801a

V2500-ENG-72-0272

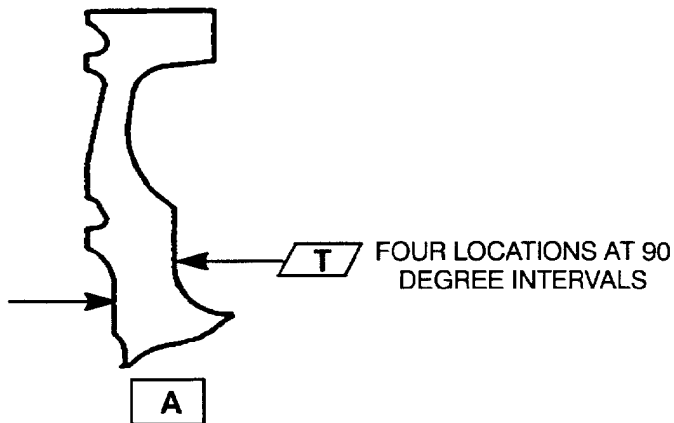
**V2500 HPT 1-2 SEAL – P/N 2A0487, 2A1159**

Printed in Great Britain



SECTION THROUGH STAGE 2 HPT AIR SEAL

LOCATION	THICKNESS



de000e7802a

Inspection of the 2A0487 or 2A1159 Stage 2 HPT Air Seal
Fig.2



International Aero Engines

SERVICE BULLETIN

Printed in Great Britain

V2500-ENG-72-0272

Feb.28/98

Page 6