

Date: Jan.15/97

Subject: Transmittal of Revision 3 to Service Bulletin Number

V2500-ENG-72-0122

Service Bulletin Revision History:

<u>Event</u>	<u>Date</u>		
Basic Issue	Jul.17/92		
Revision 1	Sept.18/92		
Revision 2	Mar.3/94		
Revision 3	Jan.15/97		

Reasons For Issuance Of Revision:

(1) To amend step (1) (c) of Paragraph C. by changing the quantity of 2A1152 Stage 2 Vane Assemblies from "36" to "34".

Effect On Past Compliance:

None

List Of Effective Pages:

	Bulletin <u>Page No.</u>	Rev. <u>No.</u>	Effective <u>Date</u>
R	1	3	Jan.15/97
	2 to 10	Basic	Jul.17/92
Ŗ.	11	3	Jan.15/97
	12 to 16	2	Mar.3/94
	17 to 18	Basic	Jul.17/92
	19	2	Mar.3/94

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Page 1 of 1

ENGINE - HP TURBINE ROTOR AND STATOR ASSEMBLY - PROVIDE NEW STAGE 2 HPT VANE ASSEMBLIES, STAGE 2 AIR SEALING RING SEGMENT ASSEMBLIES AND STAGE 2 HPT SEALS

MODEL APPLICATION

V2500-A1

BULLETIN INDEX LOCATOR

72-45-00

Compliance Category Code

Internal Reference No.

8

88VA347B

ENGINE - HP TURBINE ROTOR AND STATOR ASSEMBLY - PROVIDE NEW STAGE 2 HPT VANE ASSEMBLIES, STAGE 2 HPT AIR SEALING RING ASSEMBLIES AND AND STAGE HPT SEALS

1. Planning Information

A. Effectivity

(1) Aircraft: Airbus A320

(2) Engine: V2500-Al Engines before Serial No.V0267*

*The Serial Number data shown is of a preliminary nature and is provided for advanced planning only. A future revision to this Service Bulletin will confirm final serial number effectivity.

Part 2 of this Service Bulletin must be incorporated at the same time as or subsequent to V2500-ENG-72-0124. This is not mandatory if you only do Part 1 of this Service Bulletin.

B. Reason

(1) Condition

The new parts specified in this Service Bulletin will decrease the flow of cooling air to the Second Stage HPT Vane Clusters and Outer Air Seals. This mofification will result in improved engine performance.

(2) Background

Not considered necessary.

(3) Objective

To provide increased engine operating efficiency by reducing required cooling air flow to the second stage HPT Vane Clusters and Outer Air Seals.

(4) Substantiation

Satisfactory engine testing.



(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

Part 1

- (1) The changes introduced by this Service Bulletin are as follows:
 - (a) A new one-piece Stage 2 HPT Seal (featherseal) which is installed between the inner platforms of the vanes.
 - (b) A new longer Stage 2 Air Sealing Ring Segment Assembly and Seal (featherseal).

Part 2

- (2) The changes introduced by this Service Bulletin are as follows:
 - (a) A new Stage 2 Vane Cover with a directional flow cavity.
 - (b) A new one-piece Stage 2 HPT Seal (featherseal) which is installed between the inner platforms of the vanes.
 - (c) A smaller metering hole in the rear outer leg of the Vane.
 - (d) A new longer Stage 2 Air Sealing Ring Segment Assembly and Seal (featherseal).
- 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 Bulletin:

<u>Venue</u> <u>Estimated Manhours</u>

- (1) In Service Not applicable
- (2) At Overhaul (Note: The parts affected by this Service Bulletin are accessible at overhaul.)
 - (a) To accomplish the modification and identification of the Stage 2 HPT
 Ring Segment And Vane Cluster Assy. .. 45 Minutes
 TOTAL: 45 Minutes
- 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 2.09 lbs (0.95 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.

- K. Reference
 - (1) IAE V2500 Service Bulletins:

V2500-ENG-72-0124 - Engine - Hp Turbine Rotor and Stator Assembly - Provide New HPT Band Segment Assemblies and New HPT Duct Support Assemblies

- (2) V2500 Engine Illustrated Parts Catalog.
- (3) V2500 Engine Manual.
- (4) V2500 Standard Practices Manual.



L. Other Publications Affected

- (1) The V2500 Engine Illustrated Parts Catalog, Chapter/Section 72-45-24, Figure 2, to add the new parts.
- (2) The V2500 Engine Manual, Chapter/Section 72-45-24, Cleaning, to add the new parts.
- (3) The V2500 Engine Manual, Chapter/Section 72-45-24, Inspection, to add the new parts.
- (4) The V2500 Engine Manual, Chapter/Section 72-45-24, Repair, to add the new parts.
- (5) The V2500 Engine Manual, Chapter/Section 72-45-20, Disassembly, to add the new parts.
- (6) The V2500 Engine Manual, Chapter/Section 72-45-20, Assembly to add the new parts.



V2500 Propulsion System - Engine

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2. Accomplishment Instructions

A. Rework Instructions

(1) Do a modification to the 2A0172 Stage 2 Ring Segment And Vane Cluster Assembly (Reference (2), Chapter/Section 72-45-24, Figure/Item No. 02-050 to 02-096) and identify as follows:

Procedure

Supplementary Information

- (a) Remove the 2A0088-01 Stage 2 HPT Air Sealing Ring Segment Assy.
- Refer to Figure 1 and Reference (3), Control No./TASK No. 72-45-24-300-007.
- (b) Install the 2A1106-01 Stage 2 HPT Air Sealing Ring Segment Assys. (17 off).
- Refer to Figure 1 and Reference (3), Control No./TASK No. 72-45-24-300-007.
 - 1 Replace the 2A0054 and 2A0055 Stage 2 HPT Seals with the 2A0544 Stage 2 HPT Seals (17 off).
- (e) Mark the new part number adjacent to the old part number. Use the vibration peen method.

Old Part No. New Part No. 2A0172 2A2772

See Reference (4), Control No./ TASK No. 70-09-00-400-501.

(2) Do a modification to PN 2A1072 Stage 2 Ring Segment And Vane Cluster Assembly (Reference (2), Chapter/Section 72-45-24, Figure/Item No. 02-260 to 02-296) and identify as follows:

Procedure

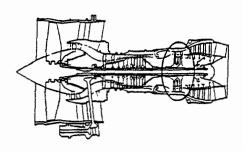
Supplementary Information

- (a) Remove the 2A0088-01 Stage 2 Air Sealing Ring Segment.
- Refer to Figure 1 and Reference (3), Control No./TASK No. 72-45-24-300-007.
- (b) Install the 2Al106-01 Stage 2 HPT Air Sealing Ring Segment (2 off).
- Refer to Figure 1 and Reference (3), Control No./TASK No. 72-45-24-300-007.
- 1 Replace the 2A0054 and 2A0055 Stage 2 HPT Seals with the 2A0544 Stage 2 HPT Seals (2 off).
- (e) Mark the new part number adjacent to the old part number. Use the vibration

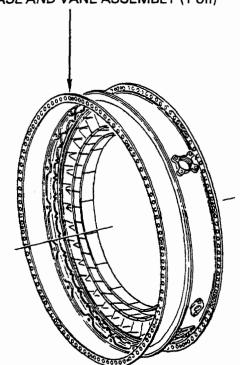
peen method.

Old Part No. New Part No. 2A1072 2A2872

See Reference (4), Control No./ TASK No. 70-09-00-400-501.



* REMOVE THE APPLICABLE TURBINE CASE AND VANE ASSEMBLY, DO A MODIFICATION AND INSTALL AS THE APPLICABLE TURBINE CASE AND VANE ASSEMBLY (1 off)



* PART 1

REMOVE	INSTALL
2A1357	2A2445
2A1764	2A2446

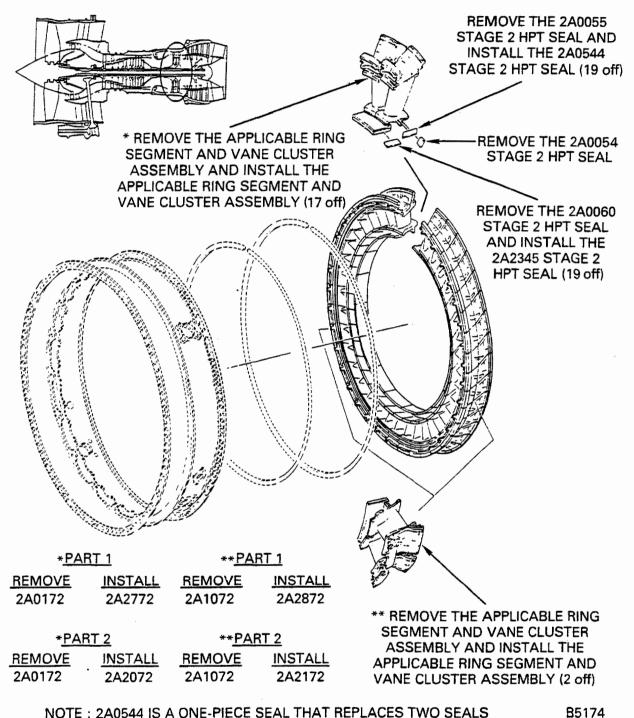
*PART 2

REMOVE	INSTALL
2A1357	2A1718
2A1764	2A2188

B5173

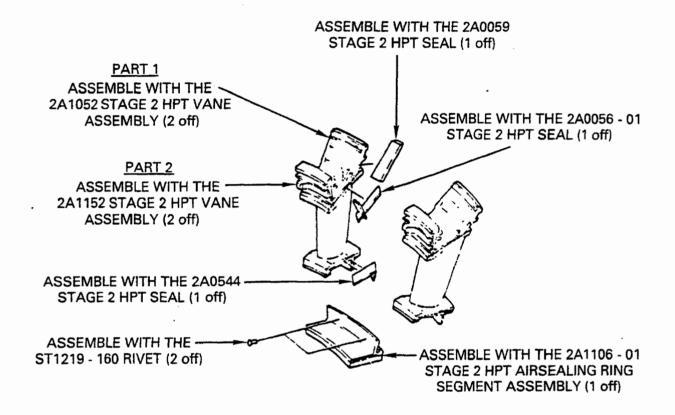
Location of The Turbine Case And Vane Assembly And The Stage 2 HPT Ring Segment And Vane Cluster Assembly Figure 1 (Sheet 1)





NOTE: 2A0544 IS A ONE-PIECE SEAL THAT REPLACES TWO SEALS

Location of The Turbine Case And Vane Assembly And The Stage 2 HPT Ring Segment And Vane Cluster Assembly Figure 1 (Sheet 2)

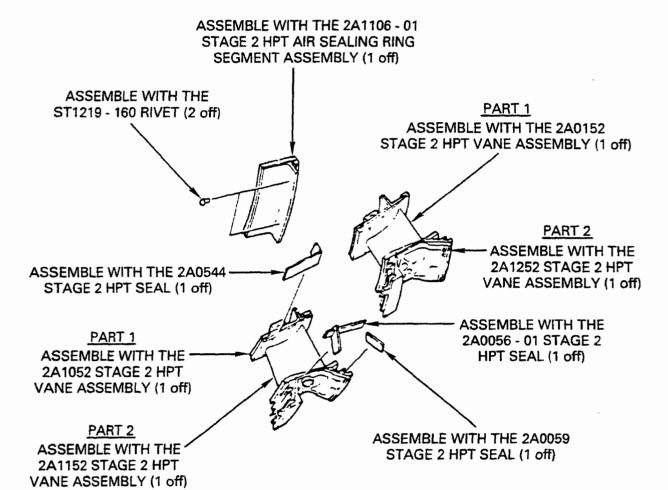


2A2772 (Part 1) OR 2A2072 (Part 2) STAGE 2 HPT RING SEGMENT AND VANE CLUSTER ASSEMBLY (17 off)

NOTE: QUANTITIES GIVEN ARE FOR ONE STAGE 2 HPT RING SEGMENT AND VANE CLUSTER ASSEMBLY

B5175

Location of The Turbine Case And Vane Assembly And The Stage 2 HPT Ring Segment And Vane Cluster Assembly Figure 1 (Sheet 3)



2A2872 (Part 1) OR 2A2172 (Part 2) STAGE 2 HPT RING SEGMENT AND VANE CLUSTER (2 off)

NOTE: QUANTITIES GIVEN ARE FOR ONE STAGE 2
HPT RING SEGMENT AND VANE CLUSTER
ASSEMBLY

B5176

Location of The Turbine Case And Vane Assembly And The Stage 2 HPT Ring Segment And Vane Cluster Assembly Figure 1 (Sheet 4)

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Part 1

- B. Assembly Instructions (When you do not incorporate the new Stage 2 HPT Vane Assembly)
 - (1) Assemble the Turbine Case and Vane Assembly by the approved procedure given in Reference (3), Chapter/Section 72-45-20, Assembly-01. Refer to Figure 1.
 - (a) Use the 2A2772 Stage 2 Ring Segment And Vane Cluster Assemblies (17 off) and the 2A2872 Stage 2 Ring Segment And Vane Cluster Assemblies (2 off).
 - (b) Use the 2A0544 Stage 2 HPT Seals (19 off) and the 2A2345 Stage 2 HPT Seals (19 off).
 - (2) Identify the 2Al357 Turbine Case and Vane Assemblies as 2A2445.
 - (a) Mark the new part number adjacent to the old part number.
 - (b) Use the vibration peen method.
 - (c) Refer to Reference (4), Chapter/Section 70-09-00, Marking Of Parts.
 - (3) Identify the 2A1764 Turbine Case and Vane Assemblies as 2A2446.
 - (a) Mark the new part number adjacent to the old part number.
 - (b) Use the vibration peen method.
 - (c) Refer to Reference (4), Chapter/Section 70-09-00, Marking Of Parts.

Part 2

- C. Assembly Instructions (When you incorporate the new Stage 2 HPT Vane Assembly)
 - (1) Assemble the 2A2072 Stage 2 HPT Ring Segment And Vane Cluster Assemblies (17 off) and the 2A2172 Stage 2 HPT Ring Segment And Vane Cluster Assemblies (2 off). Use the approved procedure in Reference (3) Chapter/Section 72-45-24, Repair-007 and Figure 1 to assemble as follows:
 - (a) Use the 2A0544 Stage 2 HPT Seals (19 off).
 - (b) Use the 2Al106-01 Stage 2 HPT Air Sealing Ring Assembly (19 off).
- R (c) Use the 2A1152 Stage 2 HPT Vane Assemblies (34 off) and the 2A1252 Stage 2 HPT Vane Assemblies (2 off).

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- (2) Assemble the Turbine Case and Vane Assembly by the approved procedure given in Reference (3), Chapter/Section 72-45-20, Assembly-01. Refer to Figure 1.
 - (a) Use the 2A2072 Stage 2 Ring Segment And Vane Cluster Assemblies (17 off) and 2A2172 Stage 2 Ring Segment And Vane Cluster Assemblies (2 off).
 - (b) Use the 2A0544 Stage 2 HPT Seals (19 off) and the 2A2345 Stage 2 HPT Seals (19 off).
- (3) Identify the 2Al357 Turbine Case and Vane Assemblies as 2Al718.
 - (a) Mark the new part number adjacent to the old part number.
 - (b) Use the vibration peen method.
 - (c) Refer to Reference (4), Chapter/Section 70-09-00, Marking Of Parts.
- (4) Identify the 2A1764 Turbine Case and Vane Assemblies as 2A2188.
 - (a) Mark the new part number adjacent to the old part number.
 - (b) Use the vibration peen method.
 - (c) Refer to Reference (4), Chapter/Section 70-09-00, Marking Of Parts.
- D. Recording Instructions
 - (1) A record of accomplishment is necessary.



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01d

3. Material Information

Applicability: For each V2500 Engine to incorporate this Bulletin.

A. Kits associated with this Bulletin:

None.

New

Parts affected by this Bulletin:

Est'd Unit

	Part No.		Unit		Part No.	Instructions
	(ATA No.)	Oty.	Price (\$)	Keyword	(IPC No.)	Disposition
				ervice Bulletin (For eng		ot incorporate
	V2500-ENG-7	2-0092,	but do inco	orporate V2500-ENG-72-00	002)	
	2A2445	1		Case and Vane Assy -	2A1357	(S1) (1D) (A)
	(72-45-20)	Τ.	-	Turbine	(01-005)	(B)
D	2A0544	19	5.00	.Seal - HPT, Stage 2	2A0054	(S1) (A) (F)
K	(72-45-24)	17	5.00	.bear " IIII, beage 2	(02-210)	(51) (1) (1)
	(12 43 24)				and	
					2A0055	
					(02-180)	
	2A2345	19	2.50	.Seal - HPT, Stage 2	2A0060	(S1)(A) (E)
	(72-45-24)				(02-220)	
	2A2772	17	-	.Ring Segment and Vane	2A0172	(S1) (1D)
	(72-45-24)			Cluster Assy - HPT,	(02-050)	
				Stage 2 (Class 21-41)	to	
					(02-096)	
R	2A1106-01	17	708.00	Ring Segment Assy -	2A0088-01	(S1) (A) (F)
	(72-45-24)			HPT, Stage 2	(02-120)	(47) (1) (70)
R	2A0544	17	5.00	Seal - HPT, Stage 2	2A0054	(S1) (A) (F)
	(72-45-24)				(02-110)	
					and	
					2A0055 (02-111)	
	2A2872	2		.Ring Segment and Vane	2A1072	(S1) (1D)
		2	-	Cluster Assy - HPT,	(02-260)	(51) (15)
	(72-45-24)			Stage 2 (Class 21-41)	to	
				beage 2 (orange 21 41)	(02-296)	
R	2A1106-01	2	708.00	Ring Segment Assy -	2A0088-01	(S1) (A) (F)
K	(72-45-24)		700.00	HPT, Stage 2	(02-320)	(, (,
	(12-43-24)				(
R	2A0544	2	5.00	Seal - HPT, Stage 2	2A0054	(S1) (A) (F)
	(72-45-24)				(02-310)	
					and	
					2A0055	
					(02-311)	

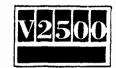
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Jul.17/92 Revision 2 Mar.3/94



$\nabla 2500$ International Aero Engines **SERVICE BULLETIN**

	New Part No. Instruction	ns	Est'd Unit		Old Part No.	
	(ATA No.)		Price (\$)	Keyword	(IPC No.)	Disposition
				ervice Bulletin (For en rate V2500-ENG-72-0002)		rporate
	2A2446 (72-45-20)	1	-	Case and Vane Assy - Turbine	2A1764 (01-005)	(S1) (1D) (A) (B)
R	2A0544 (72-45-24)	19	5.00	.Seal - HPT, Stage 2	2A0054 (02-210) and 2A0055 (02-180)	(S1) (A) (F)
	2A2345 (72-45-24)	19	2.50	.Seal - HPT, Stage 2	2A0060 (02-220)	(S1) (A) (E)
	2A2772 (72-45-24)	17	-	.Ring Segment and Vane Cluster Assy - HPT, Stage 2 (Class 21-41)	2A0172 (02-050) to (02-096)	(S1) (1D)
R	2A1106-01 (72-45-24)	17	708.00	Ring Segment Assy - HPT, Stage 2	2A0088-01 (02-120)	(S1) (A) (F)
R	2A0544 (72-45-24)	17	5.00	Seal - HPT, Stage 2	2A0054 (02-110) and 2A0055 (02-111)	(S1) (A) (F)
	2A2872 (72-45-24)	2	•	Ring Segment and Vane Cluster Assy - HPT, Stage 2 (Class 21-41)	2A1072 (02-260) to (02-296)	(S1) (1D)
R	2A1106-01 (72-45-24)	2	708.00	Ring Segment Assy - HPT, Stage 2	2A0088-01 (02-320)	(S1) (A) (F)
R	2A0544 (72-45-24)	2	5.00	Seal - HPT, Stage 2	2A0054 (02-310) and 2A0055 (02-311)	(S1) (A) (F)



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	New		Est'd		Old	
	Part No.		Unit		Part No.	Instructions
	(ATA No.)	Oty.	Price (\$)	Keyword	(IPC No.)	Disposition
				ervice Bulletin (For eng orporate V2500-ENG-72-00		ot incorporate
	2A1718	1	_	Case and Vane Assy -	2A1357	(S2) (A) (B)
	(72-45-20)	•		Turbine	(01-005)	(52) (11) (2)
R	2A2072	17	•	.Ring Segment and Vane	2A0172	(S2) (A) (F)
-	(72-45-24)	-		Cluster Assy - HPT, Stage 2 (Class 21-41)	(02-050)	() ()
				_	(02-096)	
R	2A0544	17	5.00	Seal - HPT, Stage 2	2A0054	(S2) (A) (F)
	(72-45-24)				(02-110)	
					and	
					2A0055	
n	0.4404.04	•	700 00		(02-111)	
R	2A1106-01	1 7	708.00	Ring Segment Assy -	2A0088-01	(S2) (A) (F)
	(72-45-24)			Airsealing, HPT, Stage 2	(02-120)	
R	2A1152	34	-	Vane Assy - HPT,	2A0152	(S2) (A) (F)
	(72-45-24)			Stage 2 (Class 21-41)	(02-130) to	
					(02-150)	
R	2A0544	19	5.00	.Seal - HPT, Stage 2	2A0054	(S2) (A) (F)
	(72-45-24)				(02-210)	
					and	
					2A0055	
					(02-180)	
R	2A2345	19	2.50	.Seal - HPT, Stage 2	2A0060	(S2) (A) (F)
	(72-45-24)				(02-220)	
R	2A2172	2	-	.Ring Segment and Vane	2A1072	(S2) (A) (F)
	(72-45-24)			Cluster Assy - HPT,	(02-260)	
				Stage 2 (Class 21-41)	to	
					(02-296)	
R	2A0544	2	5.00	Seal - HPT, Stage 2	2A0054	(S2) (A) (F)
	(72-45-24)				(02-310)	
					and	
					2A0055	
					(02-311)	
R	2A1106-01	2	708.00	Ring Segment Assy -	2A0088-01	(S2) (A) (F)
	(72-45-24)			Airsealing, HPT,	(02-320)	
	•			Stage 2		
R	2A1152	2	-	Vane Assy - HPT,	2A0152	(\$2) (A) (F)
	(72-45-24)			Stage 2 (Class 21-41)	(02-350)	
				-	to	
					(02-370)	

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	New		Est'd		01d		
	Part No.		Unit		Part No.		
	Instructions						
	(ATA No.)		Price (\$)	Keyword	(IPC No.)	Disposition	
	2A1252 (72-45-24)	2	-	Vane Assy - HPT, Stage 2 (Class 21-41)		(S2) (A) (F)	
					(02-440)		
				Service Bulletin (For eng ENG-72-0002)	ines that inc	corporate	
	2A2188 (72-45-20)	1	-	Case and Vane Assy - Turbine	2A1764 (01-005)	(S2) (A) (B)	
	2A2072	17	-	.Ring Segment and Vane	2A0172	(S2) (A)	
ĸ	(72-45-24)			Cluster Assy - HPT, Stage 2 (Class 21-41)	(02-050) to (02-096)	(F)	
R	2A0544 (72-45-24)	17	5.00	Seal - HPT, Stage 2	2A0054 (02-110) and	(S2) (A) (F)	
	2A1106-01	17	708.00	Ring Segment Assy	2A0055 (02-111) 2A0088-01	(S2) (A)	
R	(72-45-24)			Airsealing, HPT, Stage 2	(02-120)	(F)	
R	2A1152 (72-45-24)	34	-	Vane Assy - HPT, Stage 2 (Class 21-41)	to	(S2) (A) (F)	
R	2A0544 (72-45-24)	19	5.00	.Seal - HPT, Stage 2	(02-150) 2A0054 (02-210) and 2A0055	(S2) (A) (F)	
	2A2345 (72-45-24)	19	2.50	.Seal - HPT, Stage 2	(02-180) 2A0060 (02-220)	(S2) (A) (E)	
R	2A2172 (72-45-24)	2	-	Ring Segment and Vane Cluster Assy - HPT, Stage 2 (Class 21-41)	2A1072 (02-260) to	(S2) (A) (F)	
R	2A0544 (72-45-24)	2	5.00	Seal - HPT, Stage 2	(02-296) 2A0054 (02-310) and 2A0055	(S2) (A) (F)	
R	2A1106-01 (72-45-24)	2	708.00	Ring Segment Assy - Airsealing, HPT, Stage 2	(02-311) 2A0088-01 (02-320)	(S2) (A) (F)	

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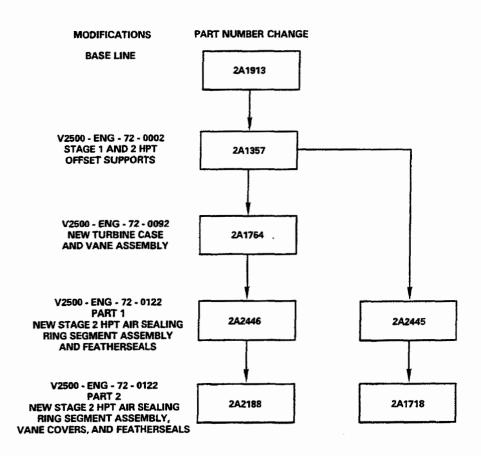
New Part No. (ATA No.)	Oty.	Est'd Unit Price (\$)	Keyword	Old Part No. (IPC No.)	Instructions Disposition
2A1152 (72-45-24)	2	•	Vane Assy - HPT, Stage 2 (Class 21-41)	to	(S2) (A) (F)
2A1252 (72-45-24)	2	•	Vane Assy - HPT, Stage 2 (Class 21-41)	(02-370) 2A1052 (02-420) to (02-440)	(S2) (A) (F)

C. Expendables Required To Incorporate Part 1 Of This Bulletin (For Each Complete Set Of Vane Clusters To Be Modified)

Part No.	ATA/IPC No.	Oty.	<u>Keyword</u>
ST1219-160	72-45-24, 02-125	38	Rivet

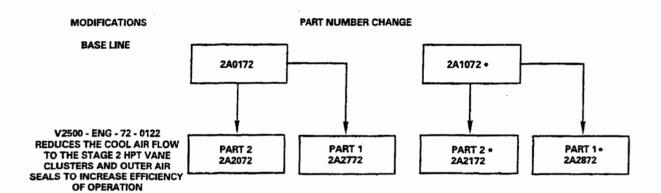
- C. Instruction/Disposition Code Statements:
 - (S1) New parts coded (S1) must replace old parts coded (S1) as a COMPLETE SET per engine.
 - (S2) New parts coded (S2) must replace old parts coded (S2) as a COMPLETE SET per engine. The new Stage 2 HPT Vane Assemblies must be used with the new parts coded (S2) in the set and the new parts given in V2500-ENG-72-0124.
 - (1D) Rework Old part number and identify to the New part number.
 - (A) New part is currently available.
 - (B) Old part will no longer continue to be available.
 - (C) Old part will continue to be available.
 - (E) Old part will continue to be available because of the interchangeability requirement.
 - (F) Old part will continue to be available until the supply is used up.

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.



B5016A

Family tree - Turbine Case And Vane Assembly Figure 4



PART 1

A NEW ONE PIECE STAGE 2 HPT SEAL (Featherseal)
A NEW LONGER STAGE 2 HPT AIR SEALING RING SEGMENT ASSEMBLY AND SEAL (Featherseal)

PART 2

A NEW ONE PIECE STAGE 2 HPT SEAL (Featherseal)
A NEW LONGER STAGE 2 HPT AIR SEALING RING SEGMENT ASSEMBLY AND SEAL (Featherseal)
A NEW STAGE 2 VANE COVER WITH A DIRECTIONAL FLOW CAVITY
A NEW SMALLER METERING HOLE IN THE REAR OUTER LEG OF THE VANE

 NOTE: THIS PART NUMBER STAGE 2 HPT RING SEGMENT AND VANE CLUSTER ASSEMBLY CONTAINS A BORESCOPE ACCESS HOLE

B5177A

Family tree - Stage 2 Ring Segment And Vane Cluster Assembly Figure 5

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