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V2500-A1 PROPULSION SYSTEMS SERVICE BULLETIN

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This document transmits the Initial Issue of Service Bulletin EV2500-70-0702

Bulletin Initial Issue

Remove

Incorporate
Pages 1 to 8 of the
Service Bulletin

Reason for change
Initial Issue

V2500-ENG-70-0702
Transmittal - Page 1 of 2

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LIST OF EFFECTIVE PAGES

The effective pages to this Service Bulletin are as follows:

Page Revision Number Revision Date

Bulletin

1	Oct.24/01
2	Oct.24/01
3	Oct.24/01
4	Oct.24/01
5	Oct.24/01
6	Oct.24/01
7	Oct.24/01
8	Oct.24/01

Printed in Great Britain



ENGINE - RESTRUCTURE THE FRONT AND REAR NUMBER FOUR BEARING SEAL ASSEMBLIES AND
DETAILS

1. Planning Information

A. Effectivity

(1) Airbus A319

V2522-A5, V2524-A5, V2527M-A5 Engine Serial No. V10001 thru V10231*

(2) Airbus A320

(a) V2500-A1 Engine Serial No. V0001 thru V0361

(b) V2527-A5, V2527E-A5 Engine Serial No. V10001 thru V10231*

(3) Airbus A321

V2530-A5, V2533-A5 Engine Serial No. V10001 thru V10231*

(4) Boeing Longbeach Division MD90

V2525-D5, V2528-D5 Engine Serial No. V20001 thru V20285

NOTE: * This estimate of engine serial numbers will be revised, if necessary, when parts are installed in engines at Pratt and Whitney.

(5) ATA Locator 72-00-00

B. Concurrent Requirements

There are no concurrent requirements.

C. Nature/Reason

(1) Nature: Transfer the Front and Rear Number 4 Bearing Seal Assemblies and revise the Seal Assembly indentures.

(2) Reason: To facilitate the Should Built/As Built comparison.

D. Description

Revise the indenture level and ATA location the Front and Rear Number 4 Bearing Seal Assemblies.

E. Compliance

Not Applicable

Oct.24/01

Oct.24/01

V2500-ENG-70-0702

Page 1 of 8

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

F. Approval Data

The part number changes and/or part modifications specified in the Accomplishment Instructions and Material Information sections of this Service Bulletin have been shown to comply with the applicable Federal Aviation Regulations and are FAA-APPROVED for the engine model(s) given.

G. Manpower

Estimated man-hours to incorporate the full intent of this Bulletin:

Venue	Estimated Manhours
In Service	Not Applicable
At Overhaul	Not Applicable

H. Weight and Balance

Weight Change	None
Moment	No Effect
Datum	Engine Front Mount Centerline (Power Plant Station (PPS) 100)

I. Electrical Load Data

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

J. Software Accomplishment Summary

Not Applicable.

K. References

Internal reference 96VK037

L. Other Publications Affected

1. V2500 Engine Illustrated Parts Catalogs (S-V2500-1IA, S-V2500-2IA, S-V2500-2IB,, S-V2500-3IA, S-V2500-3IB, S-V2500-5IA, S-V2500-5IB,, S-V2500-6IA, S-V2500-6IB, S-V2500-7IA, and S-V2500-7IB), Chapter/Section 72-42-33 and 72-43-20.

M. Interchangeability of Parts

Old and new parts are directly interchangeable.



N. General Information

1. The material Information portion of this Bulletin provides the latest information concerning the availability and part hierarchy for the No. 4 Front and Rear Bearing Seal Assemblies and details.

Printed in Great Britain

Oct.24/01
Oct.24/01

V2500-ENG-70-0702

Page 3

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2. Material Information

A. Material – Price and Availability

1. Part prices were not available at the time of Service Bulletin publication. Contact IAE's Spare Parts Sales Department for firm quotations.
2. Part availability information is provided in material data Instructions-Disposition.

B. Industry Support Program

Not Applicable.

C. The material data that follows is for each engine.

NOTE: The prices shown are for estimating purposes only and as such are given in good faith without commercial liability for advanced planning purposes only. Refer to IAE Spares and/or current Price Catalog for current prices.

For V2500-A1, V2522-A5, V2524-A5, V2527-A5, V2527E-A5, V2527M-A5, V2530-A5, V2533-A5, V2525-D5, V2528-D5 Engines:

New PN	Qty	Estimate of Unit Price (\$)	Keyword	Old PN(ATA/IPC NO.)	Instructions-Disposition
2A2930	1	*	.Seal	2A0853 (72-42-33-01-001)	(2)(3)
	1	*	.Seal	2A2930 (72-42-33-01-010)	(2)(3)
	1	*	..Support	2A2833 (72-42-33-01-020)	(2)(3)
2A2833	1	*	.Support	(72-42-33-01-020)	(2)(3)
	4	*	...Insert	MS21209F4-10 (72-42-33-01-040)	(2)(3)
MS21209F4-10	4	0.70	..Insert	(72-42-33-01-040)	(2)(3)
	4	*	...Insert	MS21209F5-10 (72-42-33-01-060)	(2)(3)
MS21209F5-10	4	1.09	..Insert	(72-42-33-01-060)	(2)(3)
	30	*	...Nut Option	ST1738-10 (72-42-33-01-080)	(2)(3)(01)
ST1738-10	30	*	..Nut Option	(72-42-33-01-080)	(2)(3)(01)
	1	*	..Strainer Assy	2A0885 (72-42-33-01-100)	(2)(3)



New PN	Qty	Estimate of Unit Price (\$)	Keyword	Old PN(ATA/IPC NO.)	Instructions- Disposition
2A0885	1	*	.Strainer Assy	Old PN (72-42-33-01-100)	(2)(3)
	4	*	..Pin, Seal	2A0858 (72-42-33-01-140)	(2)(3)
2A0858	4	*	.Pin, Seal	(72-42-33-01-140)	(2)(3)
	1	*	..Seal, Ring	2A0074 (72-42-33-01-160)	(2)(3)
2A0074	1	*	.Seal, Ring	(72-42-33-01-160)	(2)(3)
	AR	*	..Seal, Ring	2A0074P5 (72-42-33-01-162)	(2)(3)
2A0074P5	AR	*	.Seal, Ring	(72-42-33-01-162)	(2)(3)
	AR	*	..Seal, Ring	2A0074P10 (72-42-33-01-164)	(2)(3)
2A0074P10	AR	*	.Seal, Ring	(72-42-33-01-164)	(2)(3)
	AR	*	..Seal, Ring	2A0074P15 (72-42-33-01-166)	(2)(3)
2A0074P15	AR	*	.Seal, Ring	(72-42-33-01-166)	(2)(3)
	AR	*	..Seal, Ring	2A0074P20 (72-42-33-01-168)	(2)(3)
2A0074P20	AR	*	.Seal, Ring	(72-42-33-01-168)	(2)(3)
	12	*	..Spring, Helical Cmpr.	2A0860 (72-42-33-01-180)	(2)(3)
2A0860	12	*	.Spring, Helical Cmpr.	(72-42-33-01-180)	(2)(3)
	2	*	..Spacer, Sleeve	2A0859 (72-42-33-01-200)	(2)(3)
2A0859	2	*	.Spacer, Sleeve	(72-42-33-01-200)	(2)(3)
	1	*	..Seal Assy, Option	2A2918 (72-42-33-01-220)	(2)(3)(02)
2A2918	1	*	.Seal Assy, Option	(72-42-33-01-220)	(2)(3)(02)
	REF	*	...Seal, Face, No. 4 Brg. Assy	2A2053 (72-42-33-01-241)	(2)(3)
2A2053	REF	*	..Seal, Face, No. 4 Brg. Assy	(72-42-33-01-241)	(2)(3)
	12	*	Guide, Seal Spring	2A0076 (72-42-33-01-246)	(2)(3)
2A0076	12	*	...Guide, Seal Spring	(72-42-33-01-246)	(2)(3)
	REF	*	...Seal, Face, No. 4 Brg. Assy	2A2011 (72-42-33-01-248)	(2)(3)



New PN	Qty	Estimate of Unit Price (\$)	Keyword	Old PN(ATA/IPC NO.)	Instructions- Disposition
2A2011	REF	*	..Seal, Face, No. 4 Brg. Assy, Opt to 2A2053	(72-42-33-01-248)	(2)(3)
	12	*	Guide, Seal Spring	2A0076 (72-42-33-01-252)	(2)(3)
2A0076	12	*	...Guide, Seal Spring	(72-42-33-01-252)	(2)(3)
	4	*	..Collar, Retaining	1A2592 (72-42-33-01-260)	(2)(3)
1A2592	4	6.32	.Collar, Retaining	(72-42-33-01-260)	(2)(3)
	4	*	..Pin	MS9245-24 (72-42-33-01-280)	(2)(3)
MS9245-24	4	0.12	.Pin	(72-42-33-01-280)	(2)(3)
2A2931	1	*	.Seal Assy, No. 4 Brg Rear	(72-43-20-01-001)	(2)(3)
2A0558	1	*	.Gasket Assy	2A0558 (72-43-20-01-010)	(2)(3)
2A0127	7	*	.Spacer, Assy Of	(72-43-20-01-015)	(2)(3)
	1	*	.Seal Assy, No. 4 Brg Rear	2A2931 (72-43-20-01-020)	(2)(3)
	1	*	..Seal, Ring Holder	2A0847 (72-43-20-01-060)	(2)(3)
2A0847	1	*	.Seal, Ring Holder	(72-43-20-01-060)	(2)(3)
	4	*	...Insert	MS21209F5-10 (72-43-20-01-080)	(2)(3)
MS21209F5-10	4	1.09	..Insert	(72-43-20-01-080)	(2)(3)
	4	*	..Pin, Seal	2A0858 (72-43-20-01-100)	(2)(3)
2A0858	4	*	.Pin, Seal	(72-43-20-01-100)	(2)(3)
	1	*	..Seal, Ring	2A0074 (72-43-20-01-120)	(2)(3)
2A0074	1	*	.Seal, Ring	(72-43-20-01-120)	(2)(3)
	AR	*	..Seal, Ring	2A0074P5 (72-43-20-01-122)	(2)(3)
2A0074P5	AR	*	.Seal, Ring	(72-43-20-01-122)	(2)(3)
	AR	*	..Seal, Ring	2A0074P10 (72-43-20-01-124)	(2)(3)
2A0074P10	AR	*	.Seal, Ring	(72-43-20-01-124)	(2)(3)

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New PN	Qty	Estimate of Unit Price (\$)	Keyword	Old PN(ATA/IPC NO.)	Instructions- Disposition
	AR	*	..Seal, Ring	2A0074P15 (72-43-20-01-126)	(2)(3)
2A0074P15	AR	*	.Seal, Ring	(72-43-20-01-126)	(2)(3)
	AR	*	..Seal, Ring	2A0074P20 (72-43-20-01-128)	(2)(3)
2A0074P20	AR	*	.Seal, Ring	(72-43-20-01-128)	(2)(3)
	12	*	..Spring, Helical Cmpr.	2A0860 (72-43-20-01-140)	(2)(3)
2A0860	12	*	.Spring, Helical Cmpr.	(72-43-20-01-140)	(2)(3)
	2	*	..Spacer, Sleeve	2A0859 (72-43-20-01-160)	(2)(3)
2A0859	2	*	.Spacer, Sleeve	(72-43-20-01-160)	(2)(3)
	1	*	..Seal Assy, Option	2A2918 (72-43-20-01-180)	(2)(3)(02)
2A2918	1	*	.Seal Assy, Option	(72-43-20-01-180)	(2)(3)(02)
	12	*	Guide, Seal Spring	2A0076 (72-43-20-01-206)	(2)(3)
2A0076	12	*	...Guide, Seal Spring	(72-43-20-01-206)	(2)(3)
	12	*	Guide, Seal Spring	2A0076 (72-43-20-01-212)	(2)(3)
2A0076	12	*	...Guide, Seal Spring	(72-43-20-01-212)	(2)(3)
	4	*	..Collar, Retaining	1A2592 (72-43-20-01-220)	(2)(3)
1A2592	4	6.32	.Collar, Retaining	(72-43-20-01-220)	(2)(3)
	4	*	..Pin	MS9245-24 (72-43-20-01-240)	(2)(3)
MS9245-24	4	0.12	.Pin	(72-43-20-01-240)	(2)(3)
	7	*	.Spacer, Assy Of	2A0127 (72-43-20-01-260)	(2)(3)

D. Instructions/Disposition Code Statements:

(2) The new part is a replacement part only, and cannot be obtained by modification of the old part.

(3) Restructured Front and Rear No. 4 Bearing Seal Assemblies and details.
(01) Nut Option, PN ST1738-10, consists of a Nut, PN ST1739-10, or PN ST1740-10.

(02) Seal Assembly, Option, PN 2A2918, consists of a Seal Face #4 Bearing, PN 2A2053, or PN 2A2011.



3. Accomplishment Instructions

None