

SERVICE BULLETIN

ENGINE — AIR — RING, SEALING — REPLACEMENT OF, FOR PROCUREMENT

MODEL APPLICATION

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

BULLETIN ISSUE SEQUENCE

V2500 Series 72-0664

ATA NUMBER

75-00-00

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Compliance Category

7

P&W Distribution Code

V2500

April 28/16

V2500-ENG-72-0664

Summary

The purpose of this Service Bulletin is to replace the sealing ring. The sealing rings used on the union of the No. 4 bearing scavenge valve and Low Pressure Compressor (LPC) bleed valve actuators can no longer be procured. This change introduces new equivalent sealing rings for replacement.

Planning Information

Effectivity Data

Engine Models Applicable

V2500-A1

Engine Serial No. — All engines

V2522-A5, V2524-A5, V2527M-A5, V2527-A5, V2527E-A5, V2530-A5, V2533-A5 that have incorporated Reference 6, Service Bulletin V2500-ENG-72-0565

Engine Serial No. — All engines

V2525-D5, V2528-D5

Engine Serial No. — All engines

Concurrent Requirements

There are no concurrent requirements.

Reason

1. Condition: The sealing rings used on the union of the No. 4 bearing scavenge valve and LPC bleed valve actuators can no longer be procured.
2. Background: The sealing rings used on the union of the No. 4 bearing scavenge valve and LPC bleed valve actuators are obsolete.
3. Objective: Introduce equivalent part number sealing rings for use on the union of the No. 4 bearing scavenge valve and LPC bleed valve actuators.
4. Substantiation: The new and old sealing rings are equivalent.
5. Effects of Bulletin on:
 - 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.

Description

Replace the sealing ring.

Compliance

Category 7

April 28/16

V2500-ENG-72-0664

Page 2

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Accomplish when supply of superseded parts has been depleted.

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.

The aircraft Type Certificate (TC) holder has been informed of this change.

Manpower

1. In Service
..... Not Applicable.
2. At Overhaul
..... Not Applicable.

Weight and Balance

1. Weight Change
None.
2. Moment Arm
No Effect.
3. Datum
Engine Front Mount Centerline (Power Plant Station (PPS) 100)

Electrical Load Data

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

Software Accomplishment Summary

Not Applicable.

References

NOTE: In 2014 IAE converted the V2500 Technical Publications to a new system. As a result of the conversion, some manuals were consolidated. All manuals received new P&W part numbers. To facilitate the use of this Service Bulletin, a Technical Publications conversion table is provided in the Appendix.

1. ATA Locator — 75-31-42, 75-31-43 and 79-23-51.
2. V2500-A1 Series Illustrated Parts Catalog, P&W Ref. PN 2A4427, Chapter/Section 75-31-42, 75-31-43 and 79-23-51.
3. V2500-A5 Series Illustrated Parts Catalog, P&W Ref. PN 2A4428, Chapter/Section 79-23-51.
4. V2500-D5, Series Illustrated Parts Catalog, P&W Ref. PN 2A4426, Chapter/Section 79-23-51.
5. V2500 Service Bulletin V2500-ENG-70-0099 (Standard Practices — Engine — Information — To Announce The Availability Of Expendable Parts To Permit Accessory Component Replacement On An Installed Engine).

April 28/16

V2500-ENG-72-0664

Page 3

6. V2500 Service Bulletin V2500-ENG-72-0565 (Engine — Provide The Requirements For Modification To The V2500 SelectOne™ Retrofit Standard).

Other Publications Affected

NOTE: In 2014 IAE converted the V2500 Technical Publications to a new system. As a result of the conversion, some manuals were consolidated. All manuals received new P&W part numbers. To facilitate the use of this Service Bulletin, a Technical Publications conversion table is provided in the Appendix.

1. V2500-A1 Series Illustrated Parts Catalog, P&W Ref. PN 2A4427, Chapter/Section 75-31-42, 75-31-43 and 79-23-51.
2. V2500-A5 Series Illustrated Parts Catalog, P&W Ref. PN 2A4428, Chapter/Section 79-23-51.
3. V2500-D5, Series Illustrated Parts Catalog, P&W Ref. PN 2A4426, Chapter/Section 79-23-51.

Interchangeability of Parts

Old and new parts are directly interchangeable.

Information in the Appendix

Alternate Accomplishment Instructions (No)

Progression Charts (Yes)

Added Data (Yes)

Revision to Table of Limits (No)

Inspection Procedures (No)

Material Information

Material — Price and Availability

1. Part prices were not available at the time of Service Bulletin publication. Contact IAE Spares Management & Logistics for firm quotations.
2. There is no kit provided to do this Service Bulletin.
3. Part availability information is provided in material data Instructions — Disposition.

Industry Support Program

Not Applicable.

The material data that follows is for each engine.

For V2500-A1 Engines:

New PN	Qty	Estimate of Unit Price (\$)	Keyword	Old PN	Instructions — Disposition
STD1031-4908	1	54.50	RING — SEALING TOROIDAL	STD831-1 (75-31-42-01-128)	(2)(A)(L)
STD1031-4905	1	45.40	RING — SEALING TOROIDAL	STD831-11 (75-31-42-01-148)	(2)(A)(L)
STD1031-4907	1	53.40	RING — SEALING TOROIDAL	STD831-16 (75-31-42-01-133)	(2)(A)(L)
STD1031-4907	1	53.40	RING — SEALING TOROIDAL	STD831-16 (75-31-42-01-138)	(2)(A)(L)
STD1031-4907	1	53.40	RING — SEALING TOROIDAL	STD831-16 (75-31-42-01-143)	(2)(A)(L)
STD1031-4905	1	45.40	RING — SEALING TOROIDAL	STD831-11 (75-31-43-01-138)	(2)(A)(L)
STD1031-4907	1	53.40	RING — SEALING TOROIDAL	STD831-16 (75-31-43-01-128)	(2)(A)(L)
STD1031-4907	1	53.40	RING — SEALING TOROIDAL	STD831-16 (75-31-43-01-133)	(2)(A)(L)
STD1017-4907	1	40.00	RING — SEALING TOROIDAL	STD831-16 (79-23-51-01-143)	(2)(A)(L)

The material data that follows is for each engine.

For V2522-A5, V2524-A5, V2527-A5, V2527E-A5, V2527M-A5, V2530-A5, V2533-A5 Engines:

New PN	Qty	Estimate of Unit Price (\$)	Keyword	Old PN	Instructions — Disposition
STD1017-4907	1	40.00	RING — SEALING TOROIDAL	STD831-16 (79-23-51-01-143)	(2)(A)(L)

The material data that follows is for each engine.

For V2525-D5, V2528-D5 Engines:

New PN	Qty	Estimate of Unit Price (\$)	Keyword	Old PN	Instructions — Disposition
STD1017-4907	1	40.00	RING — SEALING TOROIDAL	STD831-16 (79-23-51-01-143)	(2)(A)(L)

Instructions/Disposition Code Statements:

Parts Modification Conditions

Estimated part prices are provided when they are available at time of publication. The Estimate of Unit Price is only for planning purposes and does not constitute a firm quotation. An asterisk (*) is shown where part pricing information was unavailable. In either case, contact IAE Spares for firm quotations.

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

Spare Parts Availability

(A) The new part is available.

(L) The old part will be supplied until the supply is fully used.

Vendor Services or Special Components/Materials

Not Applicable.

Tooling — Price and Availability

Special tools are not required to accomplish this Service Bulletin.

Reidentified Parts

Not Applicable.

Other Material Information Data

Not Applicable.

Accomplishment Instructions

For V2500-A1 Engines:

1. Replace the Sealing Ring, PN STD831-1 with PN STD1031-4908, PN STD831-11 with PN STD1031-4905 and three Sealing Rings, PN STD831-16 with PN STD1031-4907. See Figure 1.
2. Replace the Sealing Ring, PN STD831-11 with PN STD1031-4905 and two Sealing Rings, PN STD831-16 with PN STD1031-4907. See Figure 2.
3. Replace the Sealing Ring, PN STD831-16 with PN STD1017-4907. See Figure 3.

For V2522-A5, V2524-A5, V2527-A5, V2527E-A5, V2527M-A5, V2530-A5, V2533-A5 Engines:

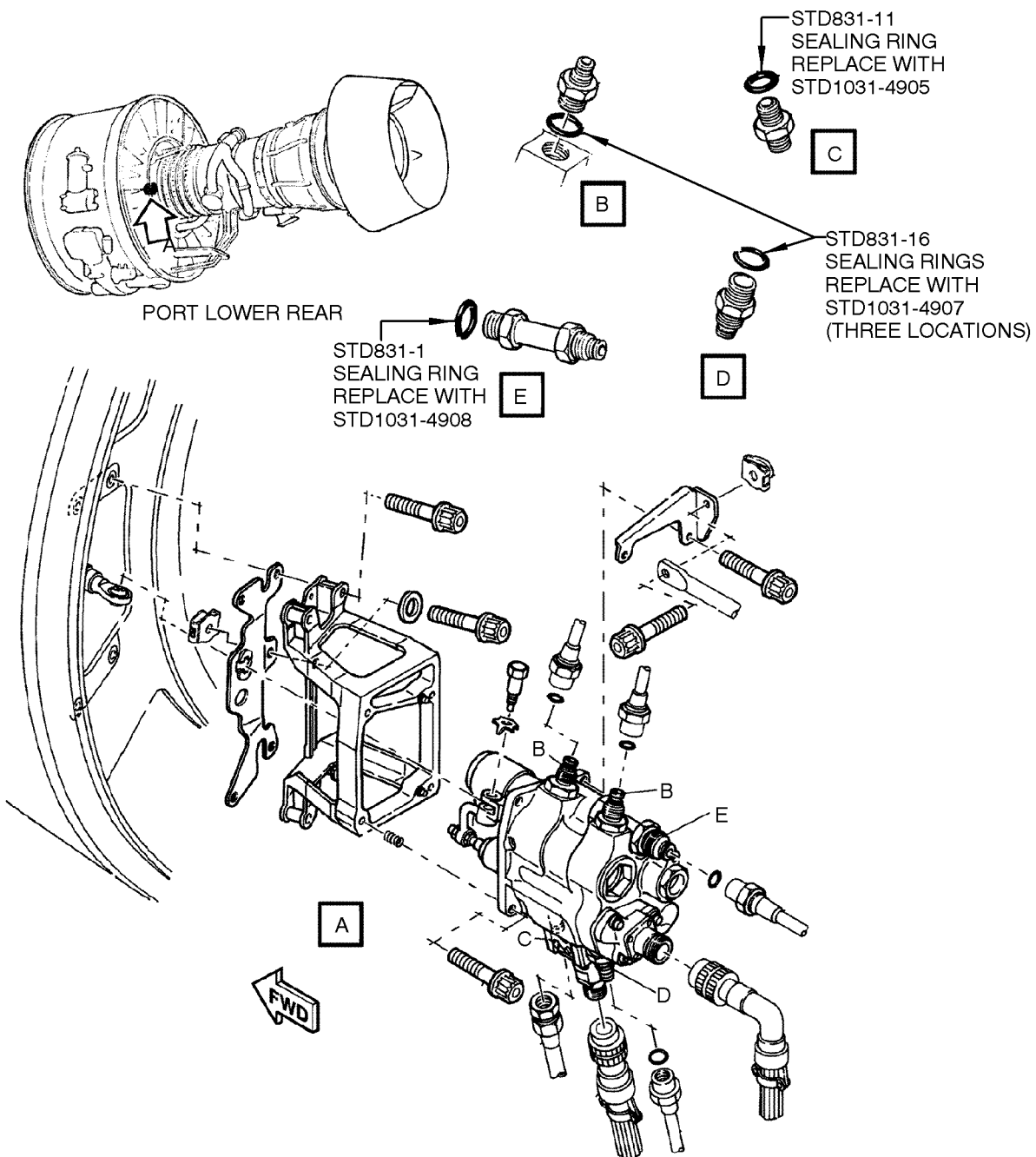
1. Replace the Sealing Ring, PN STD831-16 with PN STD1017-4907. See Figure 3.

For V2525-D5 and V2528-D5 Engines:

1. Replace the Sealing Ring, PN STD831-16 with PN STD1017-4907. See Figure 4.

For V2500-A5 SelectOne™ Engines:

1. Replace the Sealing Ring, PN STD831-16 with PN STD1017-4907.
2. Recording Instructions
 - A. A record of accomplishment is required.



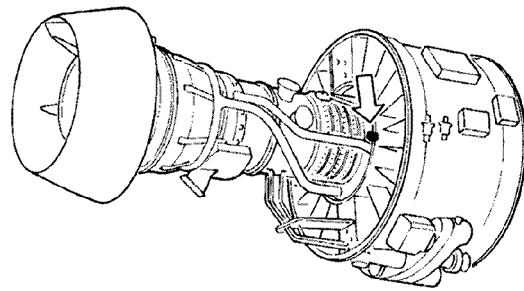
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LOCATION OF THE SEALING RING
75-31-42
FIGURE 1

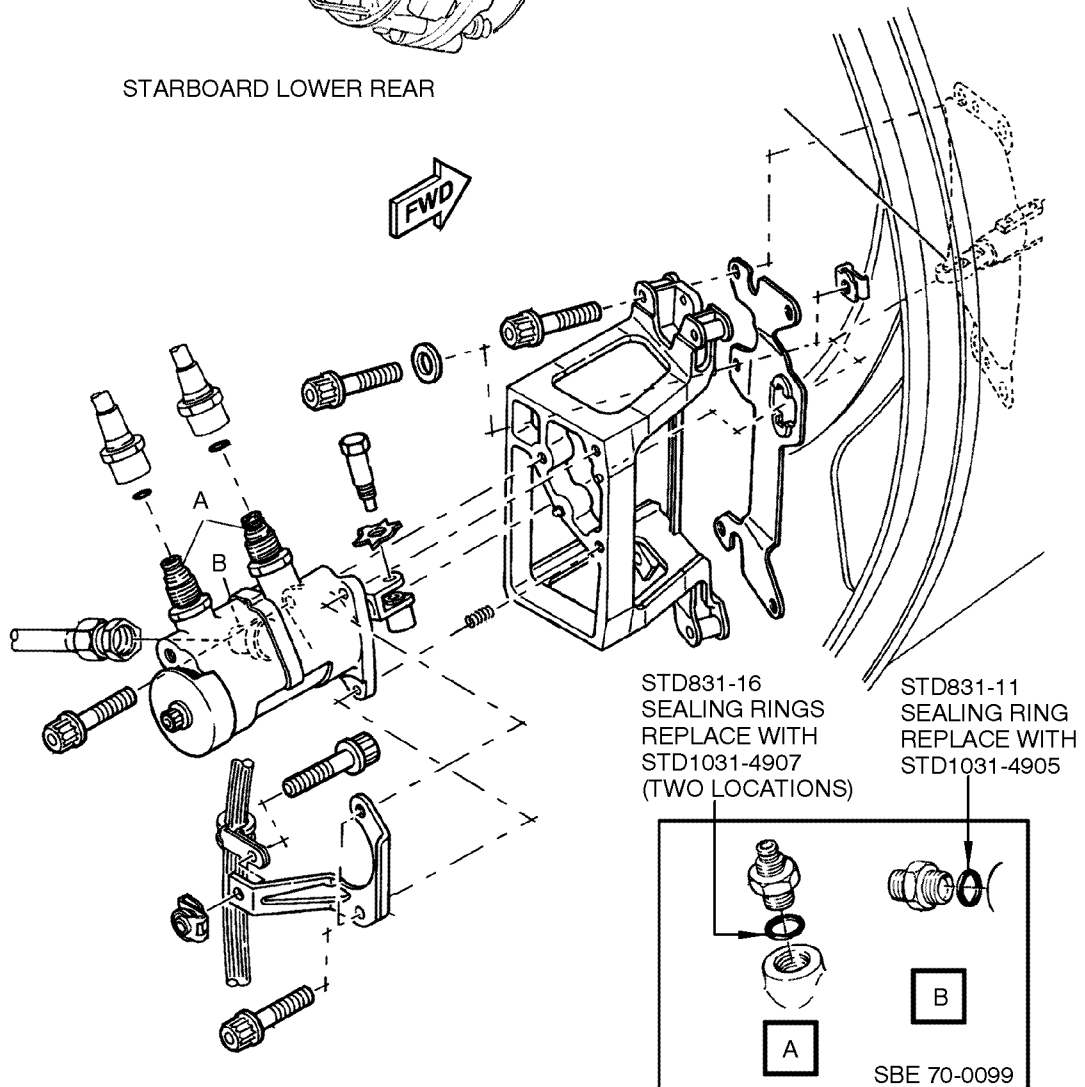
April 28/16

V2500-ENG-72-0664

Page 8



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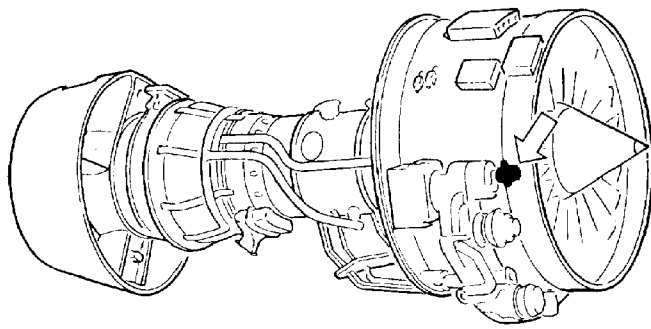
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LOCATION OF THE SEALING RING
75-31-43
FIGURE 2

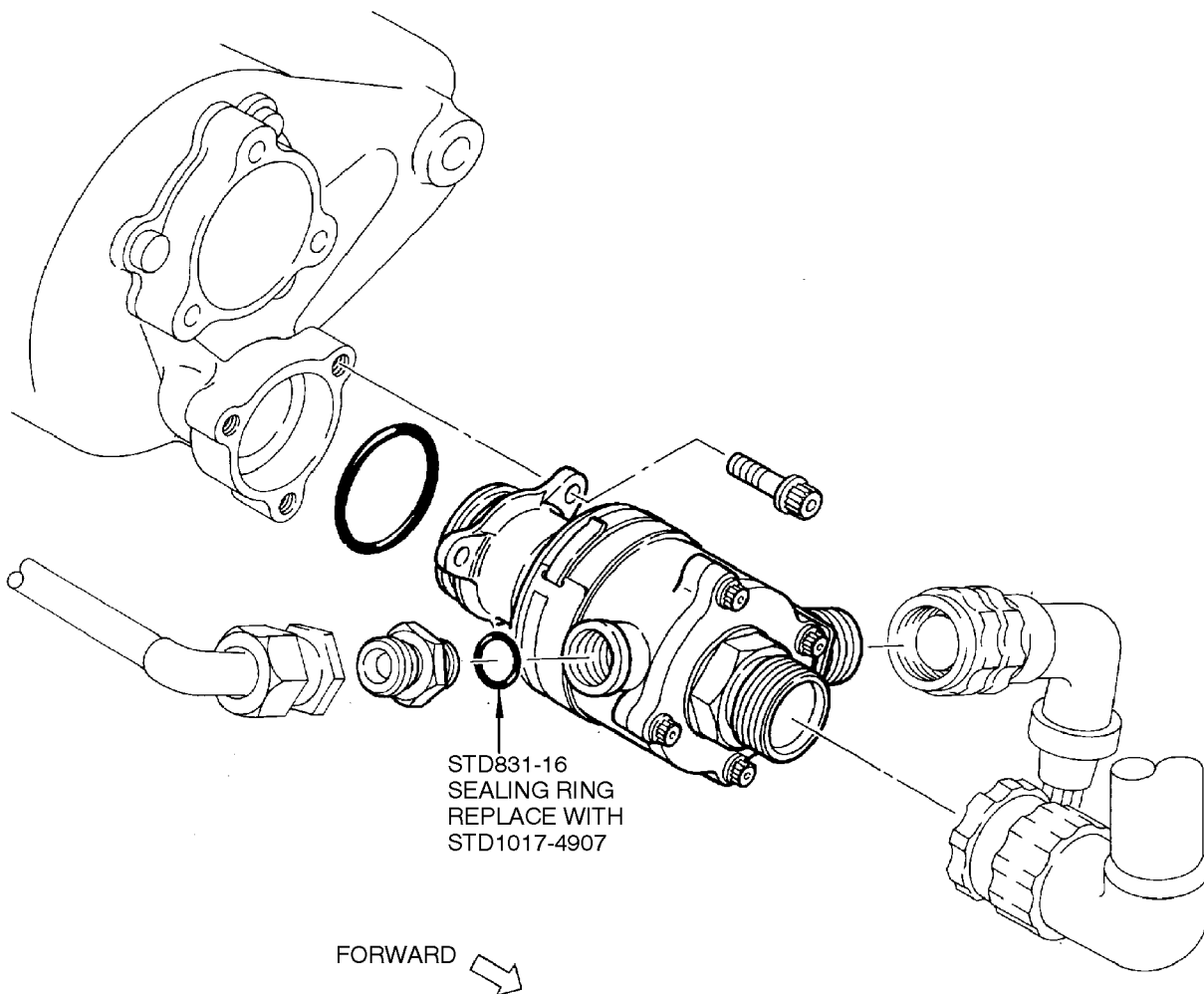
April 28/16

V2500-ENG-72-0664

Page 9



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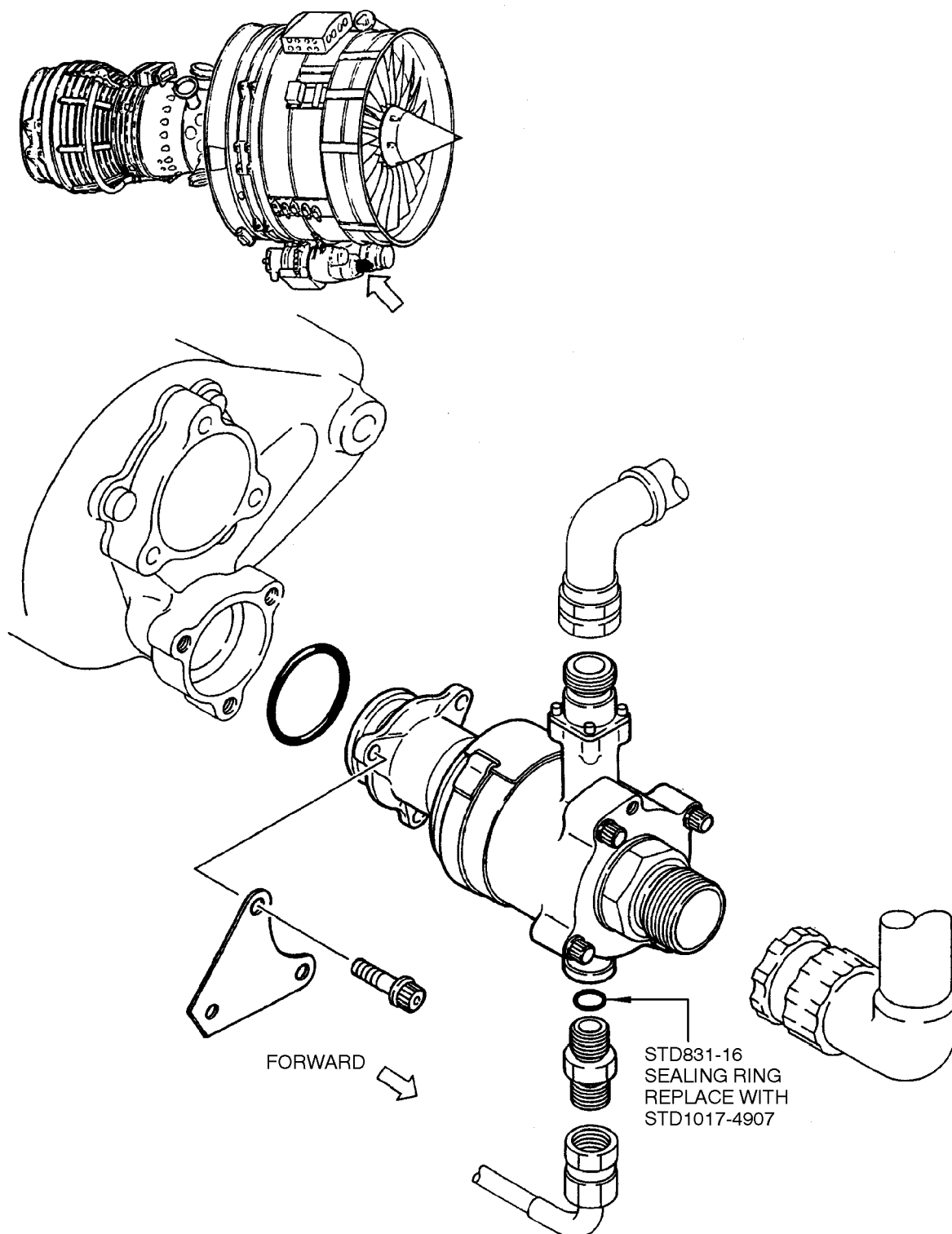
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LOCATION OF THE SEALING RING
79-23-51
FIGURE 3

April 28/16

V2500-ENG-72-0664

Page 10



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LOCATION OF THE SEALING RING
79-23-51
FIGURE 4

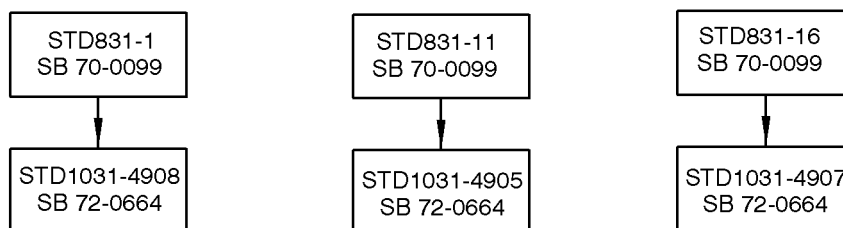
April 28/16

V2500-ENG-72-0664

Page 11

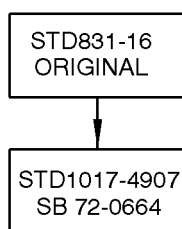
Appendix

Parts Progression To Show the Changed Part in Relation to Other Parts



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SEALING RING FOR V2500-A1 ENGINE MODELS CHART A



B525836

SEALING RING FOR V2500-A5, D5 AND A5-SELECTONE™ ENGINE MODELS CHART B

Added Data

Internal Reference Information

Revision No.	Reference Document	Origination
Original	EC15VI004	FC/IEL

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Technical Publications Cross Reference Table

Publication	Engine Model(s)	IAE IETM Pub Ref	P&W Part Number
EIPC — A1	V2500-A1102Q00	S-V2500-1IA	2A4427

April 28/16

V2500-ENG-72-0664

Page 12

Publication	Engine Model(s)	IAE IETM Pub Ref	P&W Part Number
EIPC — A5	V2522/V2524/V2527M-AQ02	S-V2500-6IA	2A4428
	V2522/V2524/V2527M-AQ03	S-V2500-6IB	
	V2522/V2524/V2527M-SQ02	S-V2500-6SA	
	V2522/V2524/V2527M-SQ03	S-V2500-6SB	
	V2522/V2524/V2527M-SQ04	S-V2500-6NA	
	V2522/V2524/V2527M-SQ05	S-V2500-6NB	
	V2527/V2527E-AQ02	S-V2500-7IA	
	V2527/V2527E-AQ03	S-V2500-7IB	
	V2527/V2527E-SQ02	S-V2500-7SA	
	V2527/V2527E-SQ03	S-V2500-7SB	
	V2527/V2527E-SQ04	S-V2500-7NA	
	V2527/V2527E-SQ05	S-V2500-7NB	
	V2530-AQ02	S-V2500-2IA	
	V2530-AQ03	S-V2500-2IB	
	V2530-SQ02	S-V2500-2SA	
	V2530-SQ03	S-V2500-2SB	
	V2530-SQ04	S-V2500-2NA	
	V2530-SQ05	S-V2500-2NB	
	V2533-AQ02	S-V2500-5IA	
	V2533-AQ03	S-V2500-5IB	
	V2533-SQ02	S-V2500-5SA	
	V2533-SQ03	S-V2500-5SB	
	V2533-SQ04	S-V2500-5NA	
	V2533-SQ05	S-V2500-5NB	
EIPC — D5	V2525/V2528-AQ02	S-V2500-3IA	2A4426
	V2525/V2528-AQ03	S-V2500-3IB	
	V2525/V2528-AQ04	S-V2500-3IC	