

SERVICE BULLETIN REVISION NOTICE

ENGINE — CASE, DIFFUSER, ASSEMBLY — MODIFICATION OF THE DIFFUSER CASE ASSEMBLY REAR OUTER FLANGE

Turbojet Engine Service Bulletin No. V2500-ENG-72-0709 Revision No. 1 dated February 20, 2020.

Revision History

Original Issue December 13, 2019

Revision 1 dated February 20, 2020

Reason for the Revision

To add additional part numbers to allow additional flange replacements and to add a note that defines "shop visit" requirements.

To add editorial changes that do not affect the technical content of this Service Bulletin.

Effect of Revision on Prior Compliance

None.

This is a Complete Revision (Not Applicable to the SGML version)

The contents are in accordance with the list of effective pages. All pages have the current revision number. Technical changes are marked with black bars.

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 72-0709

<u>Page</u>	Revision No.	<u>Date</u>
1 thru 29	1	February 20/20

A copy of this Revision Notice and any future revision notices must be filed as a permanent record with your copy of the subject bulletin.



SERVICE BULLETIN

ENGINE — CASE, DIFFUSER, ASSEMBLY — MODIFICATION OF THE DIFFUSER CASE ASSEMBLY REAR OUTER FLANGE

<u>MODEL APPLICATION</u> 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 72-0709

ATA NUMBER 72-42-11

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Compliance Category

3

IAE Distribution Code

V2500

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Summary

The purpose of this Service Bulletin is to provide instructions to perform flange replacement/modification of the diffuser case assembly rear outer "M" flange. This Service Bulletin will also introduce new part numbers to re-identify the diffuser case assembly after the modification. The diffuser case assembly rear outer flange must have this modification performed at an interval of 20,000 flight cycles or less.

Planning Information

Effectivity Data

Engine Models Applicable

All flange replacements performed using the previous version of this Service Bulletin are in compliance.

V2500-A1

Engine Serial Nos. — All Engines Diffuser Case Assembly listed in Table 1.

V2522-A5, V2524-A5, V2527M-A5, V2527-A5, V2527E-A5, V2530-A5, V2533-A5 Engine Serial Nos. — All Engines Diffuser Case Assembly listed in Table 1.

V2525-D5, V2528-D5

Engine Serial Nos. — All Engines Diffuser Case Assembly listed in Table 1.

TABLE 1: DIFFUSER CASE ASSEMBLY PART NUMBERS

Diffuser Case Assembly Part Numbers								
Old PN	Old PN First Modification		Third Modification	Fourth Modification				
2A2891-01	2A2891-101	2A2891-201	2A2891-301	2A2891-401				
2A2897-01	2A2897-101	2A2897-201	2A2897-301	2A2897-401				
2A2885-01	2A2885-101	2A2885-201	2A2885-301	2A2885-401				
2A2581-01	2A2581-101	2A2581-201	2A2581-301	2A2581-401				
2A2081-01	2A2081-101	2A2081-201	2A2081-301	2A2081-401				
2A2883-01	2A2883-101	2A2883-201	2A2883-301	2A2883-401				
2A3132	2A3132-001	2A3132-002	2A3132-003	2A3132-004				
2A2889-01	2A2889-101	2A2889-201	2A2889-301	2A2889-401				
2A2896-01	2A2896-101	2A2896-201	2A2896-301	2A2896-401				
2A0051	2A0051-001	2A0051-002	2A0051-003	2A0051-004				

Concurrent Requirements

There are no concurrent requirements.

Reason

1. Condition: This modification will lessen the possibility of the diffuser case assembly rear outer flange crack(s) propagating and causes a rupture of the diffuser case

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- assembly. This modification Service Bulletin introduces a flange replacement of the diffuser case assembly rear outer flange at an interval of 20,000 flight cycles or less.
- 2. Background: Cracks have been observed on the diffuser case assembly rear outer flange. Cracks initiates in the bolt hole inner diameter of "M" Flange and propagate into the diffuser case assembly wall which may result in a rupture of the diffuser case.
- 3. Objective: Replace the diffuser case rear outer flange at an interval of 20,000 flight cycles or less and re-identify the diffuser case assembly part number as specified in the Accomplishment Instructions.
- 4. Substantiation: Replacing the diffuser case assembly rear outer flange at an interval of 20,000 flight cycles or less reduces risk to be in acceptable levels.
- 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

Modify the diffuser case assembly rear-outer flange, to be referred to as M-flange, as specified in the Accomplishment Instructions.

Compliance

Category 3

Do at an interval of 20,000 flight cycles or less on the diffuser case assembly rear outer flange.

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 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 modification inspection.

Manpower

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

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Weight and Balance

1. Weight Change

None.

2. Moment Arm

No Effect.

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. V2500 Standard Practices and Processes, P&W Ref. PN 2A4414, Chapter/Section 70-11-00, 70-11-03, 70-11-08, 70-11-26, 70-23-03, 70-23-08, 70-26-01, 70-31-02, 70-31-03, 70-31-13, 70-37-32.
- V2500-A1 Series Illustrated Parts Catalog, P&W Ref. PN 2A4427, Chapter/Section 72-42-11.
- 3. V2500-A5 Series Illustrated Parts Catalog, P&W Ref. PN 2A4428, Chapter/Section 72-42-11.
- 4. V2500-D5, Series Illustrated Parts Catalog, P&W Ref. PN 2A4426, Chapter/Section 72-42-11.
- 5. V2500 A1/A5 Series Time Limits Manual, P&W Ref. PN 2A4408, Chapter/Section 05-10-00.
- V2500-D5 Series Time Limits Manual, P&W Ref. PN 2A4417, Chapter/Section 05-10-00.
- 7. Service Bulletin No. V2500-ENG-72-0166, Engine Diffuser Case Assembly Remove The Stage 1 HP Turbine Cooling Air Pressure Sensing Tubes.
- 8. Service Bulletin No. V2500-ENG-70-0457.
- 9. Service Bulletin No. V2500-ENG-72-0221, Engine Diffuser And Combustion Group Introduction Of A New Diffuser Case Assembly.
- 10. TDP19VA014.

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.

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- V2500-A1 Series Illustrated Parts Catalog, P&W Ref. PN 2A4427, Chapter/Section 72-42-11.
- 2. V2500-A5 Series Illustrated Parts Catalog, P&W Ref. PN 2A4428, Chapter/Section 72-42-11.
- 3. V2500-D5, Series Illustrated Parts Catalog, P&W Ref. PN 2A4426, Chapter/Section 72-42-11.
- 4. V2500 A1/A5 Series Time Limits Manual, P&W Ref. PN 2A4408, Chapter/Section 05-10-00.
- 5. V2500-D5 Series Time Limits Manual, P&W Ref. PN 2A4417, Chapter/Section 05-10-00.

Interchangeability of Parts

Not Applicable.

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.

Not Applicable.

For V2500-A1 Engines:

New PN	Qty	Estimate of Unit Price (\$)	Keyword	Old PN	Instructions — Disposition
2A0051-001	1	*	CASE – DIFFUSER, ASSY OF	2A0051 (72-42-11-01A-010)	(1)(M)(NP)
2A0051-002	1	*	CASE – DIFFUSER, ASSY OF	2A0051-001	(1)(M)(NP)
2A0051-003	1	*	CASE – DIFFUSER, ASSY OF	2A0051-002	(1)(M)(NP)
2A0051-004	1	*	CASE – DIFFUSER, ASSY OF	2A0051-003	(1)(M)(NP)
OR				•	-
2A2896-101	1	*	CASE – DIFFUSER, ASSY OF	2A2896-01 (72-42-11-01A-010)	(1)(M)(NP)
2A2896-201	1	*	CASE – DIFFUSER, ASSY OF	2A2896-101	(1)(M)(NP)
2A2896-301	1	*	CASE – DIFFUSER, ASSY OF	2A2896-201	(1)(M)(NP)
2A2896-401	1	*	CASE – DIFFUSER, ASSY OF	2A2896-301	(1)(M)(NP)
OR	•				

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New PN	Qty	Estimate of Unit Price (\$)	Keyword	Old PN	Instructions – Disposition
2A2889-101	1	*	CASE – DIFFUSER, ASSY OF	2A2889-01 (72-42-11-01A-010 A)	(1)(M)(NP)
2A2889-201	1	*	CASE – DIFFUSER, ASSY OF	2A2889-101	(1)(M)(NP)
2A2889-301	1	*	CASE – DIFFUSER, ASSY OF	2A2889-201	(1)(M)(NP)
2A2889-401	1	*	CASE – DIFFUSER, ASSY OF	2A2889-301	(1)(M)(NP)
OR	•				
2A3132-001	1	*	CASE – DIFFUSER, ASSY OF	2A3132 (72-42-11-01A-010 C)	(1)(M)(NP)
2A3132-002	1	*	CASE – DIFFUSER, ASSY OF	2A3132-001	(1)(M)(NP)
2A3132-003	1	*	CASE – DIFFUSER, ASSY OF	2A3132-002	(1)(M)(NP)
2A3132-004	1	*	CASE – DIFFUSER, ASSY OF	2A3132-003	(1)(M)(NP)
OR	•				
2A2883-101	1	*	CASE – DIFFUSER, ASSY OF	2A2883-01 (72-42-11-01A-010 B)	(1)(M)(NP)
2A2883-201	1	*	CASE – DIFFUSER, ASSY OF	2A2883-101	(1)(M)(NP)
2A2883-301	1	*	CASE – DIFFUSER, ASSY OF	2A2883-201	(1)(M)(NP)
2A2883-401	1	*	CASE – DIFFUSER, ASSY OF	2A2883-301	(1)(M)(NP)

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New PN	Qty	Estimate of Unit Price (\$)	Keyword	Old PN	Instructions — Disposition
2A2891-101	1	*	CASE – DIFFUSER, ASSY OF	2A2891-01 (72-42-11-01-010)	(1)(M)(NP)
2A2891-201	1	*	CASE – DIFFUSER, ASSY OF	2A2891-101	(1)(M)(NP)
2A2891-301	1	*	CASE – DIFFUSER, ASSY OF	2A2891-201	(1)(M)(NP)
2A2891-401	1	*	CASE – DIFFUSER, ASSY OF	2A2891-301	(1)(M)(NP)

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
	2A2889-101	1	*	CASE – DIFFUSER, ASSY OF	2A2889-01 (72-42-11-01A-010 D)	(1)(M)(NP)
	2A2889-201	1	*	CASE – DIFFUSER, ASSY OF	2A2889-101	(1)(M)(NP)
	2A2889-301	1	*	CASE – DIFFUSER, ASSY OF	2A2889-201	(1)(M)(NP)
Ī	2A2889-401	1	*	CASE – DIFFUSER, ASSY OF	2A2889-301	(1)(M)(NP)
	OR					
	2A2081-101	1	*	CASE – DIFFUSER, ASSY OF	2A2081-01 (72-42-11-01A-010)	(1)(M)(NP)
	2A2081-201	1	*	CASE – DIFFUSER, ASSY OF	2A2081-101	(1)(M)(NP)
	2A2081-301	1	*	CASE – DIFFUSER, ASSY OF	2A2081-201	(1)(M)(NP)

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New PN	Qty	Estimate of Unit Price (\$)	Keyword	Old PN	Instructions — Disposition
2A2081-401	1	*	CASE – DIFFUSER, ASSY OF	2A2081-301	(1)(M)(NP)
OR		_	_		_
2A2581-101	1	*	CASE – DIFFUSER, ASSY OF	2A2581-01 (72-42-11-01A-010 A)	(1)(M)(NP)
2A2581-201	1	*	CASE – DIFFUSER, ASSY OF	2A2581-101	(1)(M)(NP)
2A2581-301	1	*	CASE – DIFFUSER, ASSY OF	2A2581-201	(1)(M)(NP)
2A2581-401	1	*	CASE – DIFFUSER, ASSY OF	2A2581-301	(1)(M)(NP)
OR				-	
2A2885-101	1	*	CASE – DIFFUSER, ASSY OF	2A2885-01 (72-42-11-01A-010 C)	(1)(M)(NP)
2A2885-201	1	*	CASE – DIFFUSER, ASSY OF	2A2885-101	(1)(M)(NP)
2A2885-301	1	*	CASE – DIFFUSER, ASSY OF	2A2885-201	(1)(M)(NP)
2A2885-401	1	*	CASE – DIFFUSER, ASSY OF	2A2885-301	(1)(M)(NP)
OR	•				
2A2897-101	1	*	CASE – DIFFUSER, ASSY OF	2A2897-01 (72-42-11-01A-010 B)	(1)(M)(NP)
2A2897-201	1	*	CASE – DIFFUSER, ASSY OF	2A2897-101	(1)(M)(NP)
2A2897-301	1	*	CASE – DIFFUSER, ASSY OF	2A2897-201	(1)(M)(NP)

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New PN	Qty	Estimate of Unit Price (\$)	Keyword	Old PN	Instructions — Disposition
2A2897-401	1	*	CASE – DIFFUSER, ASSY OF	2A2897-301	(1)(M)(NP)
OR					
2A2891-101	1	*	CASE – DIFFUSER, ASSY OF	2A2891-01 (72-42-11-01A-010 E) (72-42-11-01A-010 F)	(1)(M)(NP)
2A2891-201	1	*	CASE – DIFFUSER, ASSY OF	2A2891-101	(1)(M)(NP)
2A2891-301	1	*	CASE – DIFFUSER, ASSY OF	2A2891-201	(1)(M)(NP)
2A2891-401	1	*	CASE – DIFFUSER, ASSY OF	2A2891-301	(1)(M)(NP)

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
	2A2889-101	1	*	CASE – DIFFUSER, ASSY OF	2A2889-01 (72-42-11-01-010)	(1)(M)(NP)
	2A2889-201	1	*	CASE – DIFFUSER, ASSY OF	2A2889-101	(1)(M)(NP)
	2A2889-301	1	*	CASE – DIFFUSER, ASSY OF	2A2889-201	(1)(M)(NP)
	2A2889-401	1	*	CASE – DIFFUSER, ASSY OF	2A2889-301	(1)(M)(NP)
Ī	OR					
	2A2081-101	1	*	CASE – DIFFUSER, ASSY OF	2A2081-01 (72-42-11-01-010)	(1)(M)(NP)
	2A2081-201	1	*	CASE – DIFFUSER, ASSY OF	2A2081-101	(1)(M)(NP)

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New PN	Qty	Estimate of Unit Price (\$)	Keyword	Old PN	Instructions — Disposition
2A2081-301	1	*	CASE – DIFFUSER, ASSY OF	2A2081-201	(1)(M)(NP)
2A2081-401	1	*	CASE – DIFFUSER, ASSY OF	2A2081-301	(1)(M)(NP)
OR					
2A2581-101	1	*	CASE – DIFFUSER, ASSY OF	2A2581-01 (72-42-11-01-010)	(1)(M)(NP)
2A2581-201	1	*	CASE – DIFFUSER, ASSY OF	2A2581-101	(1)(M)(NP)
2A2581-301	1	*	CASE – DIFFUSER, ASSY OF	2A2581-201	(1)(M)(NP)
2A2581-401	1	*	CASE – DIFFUSER, ASSY OF	2A2581-301	(1)(M)(NP)
OR					
2A2885-101	1	*	CASE – DIFFUSER, ASSY OF	2A2885-01 (72-42-11-01-010)	(1)(M)(NP)
2A2885-201	1	*	CASE – DIFFUSER, ASSY OF	2A2885-101	(1)(M)(NP)
2A2885-301	1	*	CASE – DIFFUSER, ASSY OF	2A2885-201	(1)(M)(NP)
2A2885-401	1	*	CASE – DIFFUSER, ASSY OF	2A2885-301	(1)(M)(NP)
OR	-				
2A2897-101	1	*	CASE – DIFFUSER, ASSY OF	2A2897-01 (72-42-11-01-010)	(1)(M)(NP)
2A2897-201	1	*	CASE – DIFFUSER, ASSY OF	2A2897-101	(1)(M)(NP)

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New PN	Qty	Estimate of Unit Price (\$)	Keyword	Old PN	Instructions — Disposition
2A2897-301	1	*	CASE – DIFFUSER, ASSY OF	2A2897-201	(1)(M)(NP)
2A2897-401	1	*	CASE – DIFFUSER, ASSY OF	2A2897-301	(1)(M)(NP)
OR					
2A2891-101	1	*	CASE – DIFFUSER, ASSY OF	2A2891-01 (72-42-11-01-010 B)	(1)(M)(NP)
2A2891-201	1	*	CASE – DIFFUSER, ASSY OF	2A2891-101	(1)(M)(NP)
2A2891-301	1	*	CASE – DIFFUSER, ASSY OF	2A2891-201	(1)(M)(NP)
2A2891-401	1	*	CASE – DIFFUSER, ASSY OF	2A2891-301	(1)(M)(NP)

Modification and Spares Information

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.

(1) The new part can be obtained by modification of the old part as specified in the Accomplishment Instructions.

Spare Parts Availability

- (M) It is possible to get the new part only by modification.
- (NP) The part is an item that is usually not procured as a spare item.

Vendor Services or Special Components/Materials

- The Source Demonstration requirements of this modification mean that any facility
 not authorized to accomplish these instructions either utilize the Authorized Vendors
 listed below or contact the IAE Manager Maintenance Operations to determine if a
 qualification program can be initiated at their facility.
 - A. The designation by IAE of an authorized vendor indicates that the vendor has demonstrated the necessary capability to enable it to carry out the listed work. However, IAE makes no warranties or representations concerning the qualifications or quality standards of the vendors to carry out the work, and accepts no responsibility whatsoever for any work that may be carried out by a

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- vendor, other than when IAE is listed as the vendor. Authorized vendors do not act as agents or representatives of IAE.
- B. This modification needs a locally manufactured detail. The vendor completing this modification will be responsible for obtaining the necessary forging and will be responsible for machining the forging to meet the modification requirements.

2. Recording Instructions

A. A record of accomplishment is required.

Vendor Services or Special Components/Materials

Authorized Vendor:

Pratt & Whitney PSD, Inc.

275 E. Robinson

Springdale, AR 72764

USA

Mail Stop 958-00 TEL: (479) 927-5001 FAX: (479) 750-5263 Vendor Code: 1DVS1

Authorized Vendor:

Lufthansa Technik AG Weg BEIM Jaeger 193

22335 Hamburg

Germany

TEL: 49 40-5070 3700 FAX: 49 40-5070 4952 Vendor Code: C1008

NOTE:

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Tooling — Price and Availability

Special tools are not required to accomplish this Service Bulletin.

Reidentified Parts

The diffuser case assembly can return to service after completion of this Service Bulletin. The part number must be changed per the Reidentified Parts Data table. The modified flange must not exceed 20,000 flight cycles as specified in Reference 5, V2500 A1/A5 Series Time Limits Manual, P&W Reference, PN 2A4408, Chapter/Section 05-10-00, and Reference 6, V2500-D5 Series Time Limits Manual, P&W Ref. PN 2A4417, Chapter/Section 05-10-00. Up to four modifications of the diffuser case assembly rear outer "M" flange are allowed. Contact IAE if you request more than four modifications.

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Reidentified Parts Data

Diffuser Case Assembly Part Numbers					
Old PN	First Modification	Second Modification	Third Modification	Fourth Modification	
2A2891-01	2A2891-101	2A2891-201	2A2891-301	2A2891-401	
2A2897-01	2A2897-101	2A2897-201	2A2897-301	2A2897-401	
2A2885-01	2A2885-101	2A2885-201	2A2885-301	2A2885-401	
2A2581-01	2A2581-101	2A2581-201	2A2581-301	2A2581-401	
2A2081-01	2A2081-101	2A2081-201	2A2081-301	2A2081-401	
2A2883-01	2A2883-101	2A2883-201	2A2883-301	2A2883-401	
2A3132	2A3132-001	2A3132-002	2A3132-003	2A3132-004	
2A2889-01	2A2889-101	2A2889-201	2A2889-301	2A2889-401	
2A2896-01	2A2896-101	2A2896-201	2A2896-301	2A2896-401	
2A0051	2A0051-001	2A0051-002	2A0051-003	2A0051-004	

Other Material Information Data

Not Applicable.



Accomplishment Instructions

1. For Diffuser Case Assemblies Base PN (2A0051, 2A2081-01, 2A2581-01, 2A2883-01, 2A2885-01, 2A2889-01, 2A2891-01, 2A2896-01, 2A2897-01, or 2A3132).

NOTE: Diffuser case assemblies in-shop that meet one or more conditions below and have 20,000 flight cycles or more on the rear outer flange cannot return to service until the rear outer flange is replaced as specified in this Service Bulletin:

1. Diffuser case assemblies at a piece-part level. 2. Diffuser case assemblies in-shop with the M-flange exposed (hardware removed from M-flange). 3. Diffuser case assemblies in-shop at Level 2.3 overhaul or greater.

NOTE: If the cycles on the diffuser case rear outer flange cannot be determined, you must use the total cycles on the diffuser case.

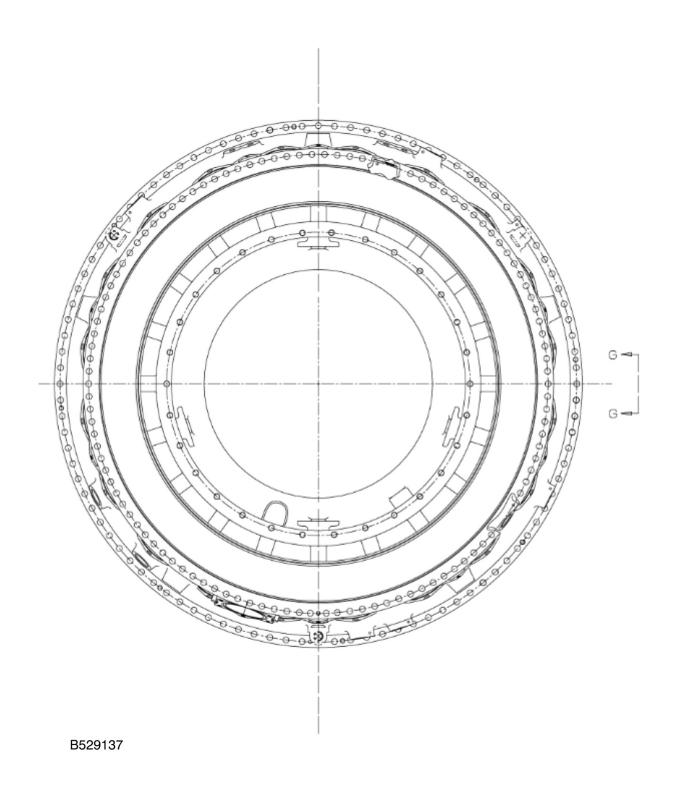
NOTE: If the cycles on the diffuser case cannot be determined, you must use the total engine cycles if it can be documented that the diffuser case was always with the engine.

NOTE: If the cycles on the diffuser rear outer flange cannot be determined, based on any of the above criteria, then you must replace the diffuser case rear outer flange.

- Modify the Diffuser Case Assembly.
 - (1) Send the diffuser case assembly to a vendor listed in the "Vendor Services or Special Components/Materials" section of this Service Bulletin.
 - (2) Replace the rear outer flange. Refer to Reference 10, TDP19VA014.
- B. Re-identify the Diffuser Case Assembly Part Number.
 - (1) Refer to TDP19VA014 for remarking instructions.
 - (2) Modify the part number at the designated area. Refer to Figure 1, Figure 2, and Reference 10, TDP19VA014.
- C. Recording Instructions
 - (1) A record of accomplishment is required.
- 2. For Diffuser Case Assemblies with Modified Part Numbers.
 - A. Modify the Diffuser Case Assembly within an interval of 20,000 flight cycles.
 - (1) Send the diffuser case assembly to a vendor listed in the "Vendor Services or Special Components/Materials" section of this Service Bulletin.
 - (2) Replace the rear outer flange. Refer to TDP19VA014.
 - B. Re-identify the Diffuser Case Assembly Part Number.
 - (1) Refer to TDP19VA014 for remarking instructions.
 - (2) Modify the part number at the designated area. Refer to Figure 1 Diffuser Case Assembly Forward Looking Aft, Figure 2 Diffuser Case Assembly Part Marking Locations, and TDP19VA014.
 - C. Recording Instructions.
 - (1) A record of accomplishment is required.

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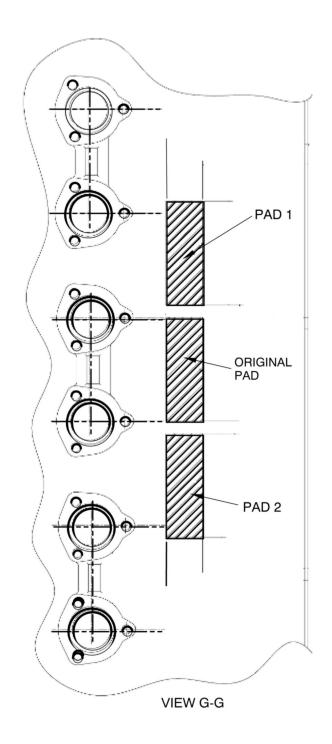


DIFFUSER CASE ASSEMBLY FORWARD LOOKING AFT FIGURE 1

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DIFFUSER CASE ASSEMBLY PART MARKING LOCATIONS FIGURE 2

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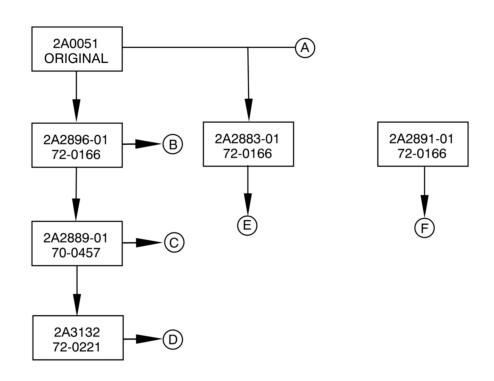
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Parts Progression To Show the Changed Part in Relation to Other Parts





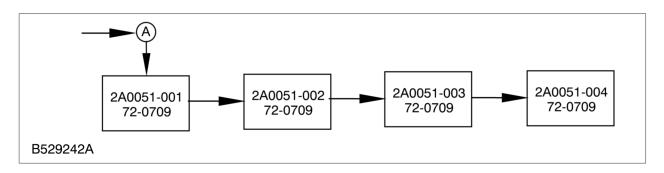
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V2500-A1 DIFFUSER CASE ASSEMBLY FIGURE 3, SHEET 1

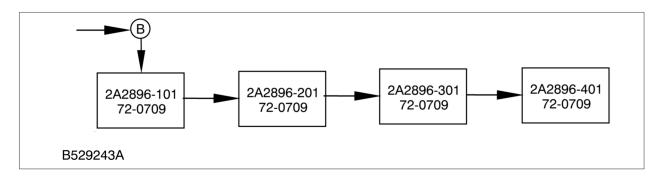
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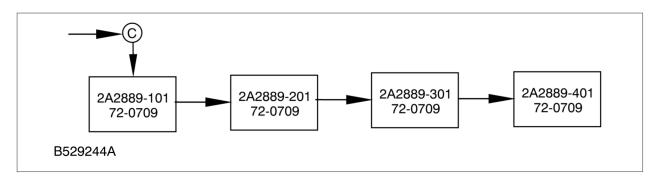




V2500-A1 DIFFUSER CASE ASSEMBLY OF FIGURE 3, SHEET 2

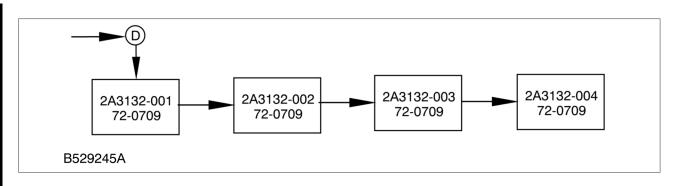


V2500-A1 DIFFUSER CASE ASSEMBLY FIGURE 3, SHEET 3

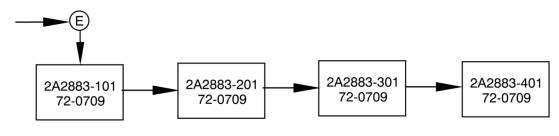


V2500-A1 DIFFUSER CASE ASSEMBLY FIGURE 3, SHEET 4



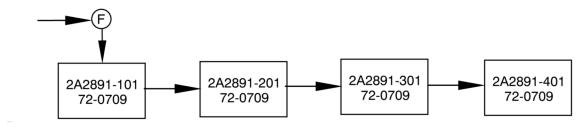


V2500-A1 DIFFUSER CASE ASSEMBLY FIGURE 3, SHEET 5



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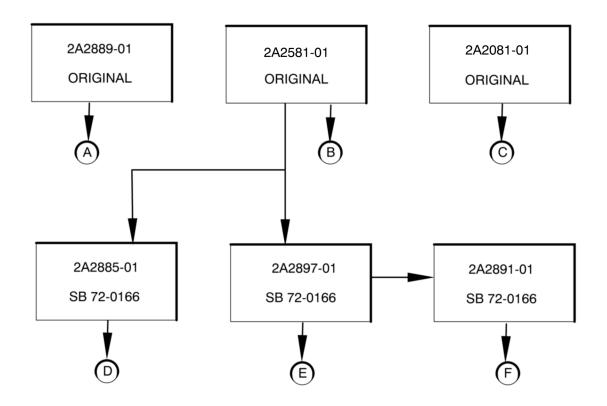
V2500-A1 DIFFUSER CASE ASSEMBLY FIGURE 3, SHEET 6



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V2500-A1 DIFFUSER CASE ASSEMBLY FIGURE 3, SHEET 7



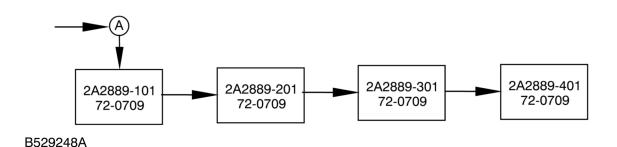


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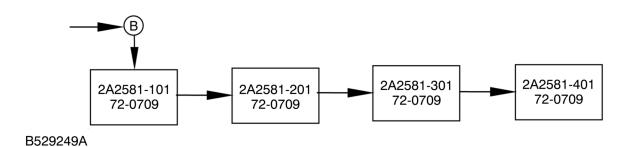
V2500-A5 DIFFUSER CASE ASSEMBLY FIGURE 4, SHEET 1

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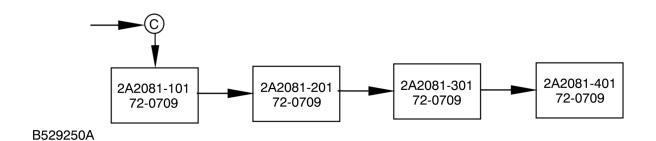




V2500-A5 DIFFUSER CASE ASSEMBLY FIGURE 4, SHEET 2

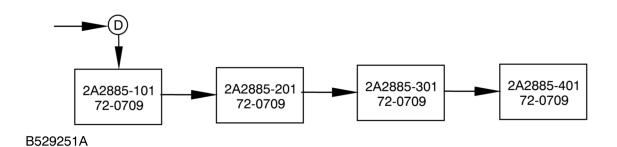


V2500-A5 DIFFUSER CASE ASSEMBLY FIGURE 4, SHEET 3

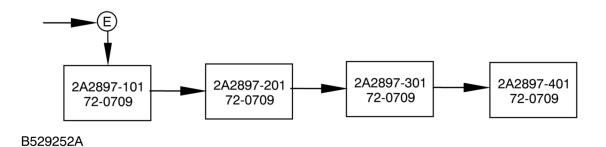


V2500-A5 DIFFUSER CASE ASSEMBLY FIGURE 4, SHEET 4

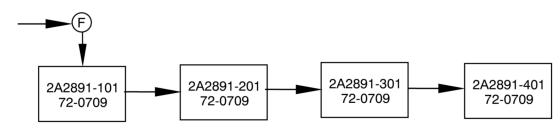




V2500-A5 DIFFUSER CASE ASSEMBLY FIGURE 4, SHEET 5



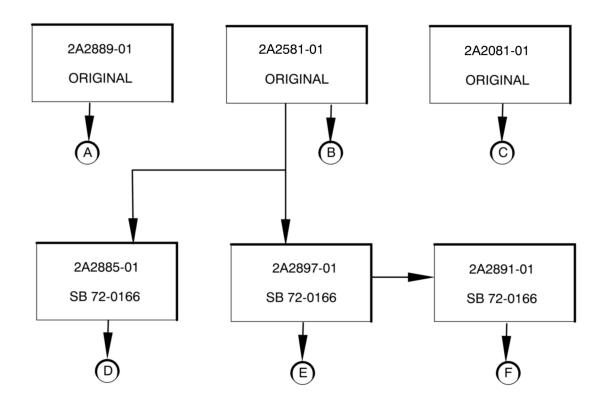
V2500-A5 DIFFUSER CASE ASSEMBLY FIGURE 4, SHEET 6



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V2500-A5 DIFFUSER CASE ASSEMBLY FIGURE 4, SHEET 7



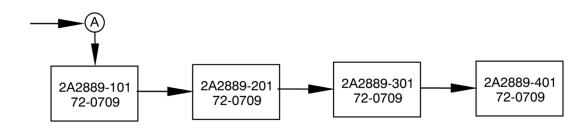


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V2500-D5 DIFFUSER CASE ASSEMBLY FIGURE 5, SHEET 1

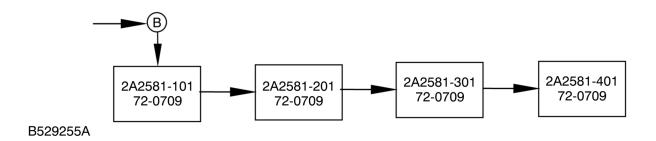
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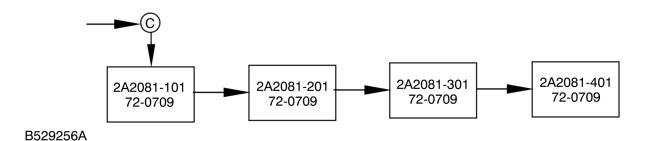


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V2500-D5 DIFFUSER CASE ASSEMBLY FIGURE 5, SHEET 2

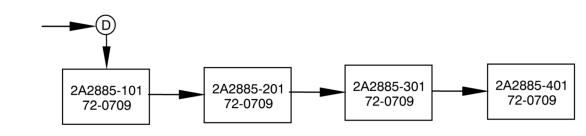


V2500-D5 DIFFUSER CASE ASSEMBLY FIGURE 5, SHEET 3



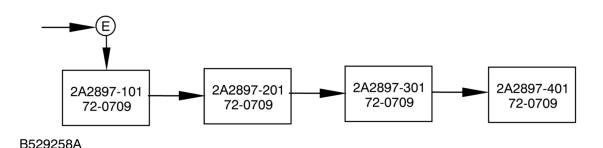
V2500-D5 DIFFUSER CASE ASSEMBLY FIGURE 5, SHEET 4



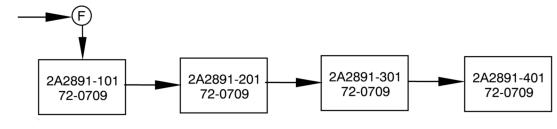


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V2500-D5 DIFFUSER CASE ASSEMBLY FIGURE 5, SHEET 5



V2500-D5 DIFFUSER CASE ASSEMBLY FIGURE 5, SHEET 6



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V2500-D5 DIFFUSER CASE ASSEMBLY FIGURE 5, SHEET 7



Added Data

Internal Reference Information

Revision No.	Reference Document	Origination	
Original	EC19VA014	BR/RD/RCM	
1	EC19VA014A EC19VA014B EC19VA014C	BR/RD/RCM	

Number values shown in parentheses adjacent to U.S. values are International System of units (SI) equivalents.

To calculate part life, include the hours and/or cycles since the part was made. Use the total hours or cycles to calculate life limits that are the result of part modification, a part used in an engine different thrust, or for some other reason.

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, the following Technical Publications cross reference table is provided.

Technical Publications Cross Reference Table

Publication	Engine Model(s)	IAE IETM Pub Ref	P&W Part Number
ENGINE MANUAL — A1, A5	All	E-V2500-1IA	2A4407
CMM-EHC — A1, A5	All	EHC-V2500-1IA	2A4409
CMM-FN — A1, A5	All	FN-V2500-1IA	2A4410
CMM-MMC — A1, A5	All	MECH-V2500-1IA	2A4411
CMM-THD — A1, A5	All	THD-V2500-1IA	2A4412
TLM — A1, A5	All	T-V2500-1IA	2A4408
ENGINE MANUAL — D5	All	E-V2500-3IA	2A4416
CMM-EHC — D5	All	EHC-V2500-31A	2A4418
CMM-FN — D5	All	FN-V2500-3IA	2A4419
CMM-MMC — D5	All	MECH-V2500-3IA	2A4420
CMM-THD — D5	All	THD-V2500-3IA	2A4423
TLM — D5	All	T-V2500-3IA	2A4417
SPPM (SPM) — A1, A5, D5	All	SPP-V2500-1IA	2A4414
EIPC — A1	V2500-A1102Q00	S-V2500-1IA	2A4427

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