



400 MAIN STREET, MAIL STOP 121-10
EAST HARTFORD, CT 06108, USA.
TELEPHONE:- 860 565 5515
FAX:- 860 565 0600

DATE: Mar.12/08

P.O. BOX 31, DERBY
TELEGRAMS - 'ROYCAR' DERBY
TELEX - 37645
TELEPHONE:- 44 (0) 1332 242424
FAX:- 44 (0) 1332 249936

V2500-A1/A5/D5 SERIES PROPULSION SYSTEMS NON-MODIFICATION SERVICE BULLETIN

Printed in Great Britain

This document transmits Revision 4 to Non-Modification Service Bulletin V2500-ENG-72-0541 and Revision 4 to the Supplement

Document History

Service Bulletin Revision Status

Initial Issue	Feb. 5/07
Revision 1	Feb.26/07
Revision 2	Jun.23/07
Revision 3	Oct.22/07

Non-Modification Service Bulletin Revision 4

Remove	Incorporate	Reason for change
All pages of the Service Bulletin	Pages 1 to 11 of the Service Bulletin	To correct a Service Bulletin reference from 72-0276 to 71-0276.
All pages of Appendix 1	Pages 1 to 6 of Appendix 1	To correct a Service Bulletin reference from 72-0276 to 71-0276.
All pages of the Supplement	Page 1 of the Supplement	To correct a Service Bulletin reference from 72-0276 to 71-0276.

V2500-ENG-72-0541

Transmittal - Page 1 of 1

CHECK THAT ALL PREVIOUS TRANSMITTALS HAVE BEEN INCORPORATED

If any have not been received please advise Customer Data Services, Rolls-Royce plc, Derby, England

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NON – MODIFICATION SERVICE BULLETIN FOR OIL IN TURBINE FIXES**1. Planning Information****A. Effectivity****(1) Airbus A319**

(a) V2522-A5, V2524-A5, V2527M-A5

See Appendix 1 for serial number applicability.

(2) Airbus A320

(a) V2500-A1

See Appendix 1 for serial number applicability.

(b) V2527-A5, V2527E-A5

See Appendix 1 for serial number applicability.

(3) Airbus A321

(a) V2530-A5, V2533-A5

See Appendix 1 for serial number applicability.

(4) Boeing MD-90

(a) V2525-D5, V2528-D5

See Appendix 1 for serial number applicability.

B. Concurrent Requirements

The concurrent requirements of the applicable Service Bulletins must be followed.

C. Reason**(1) Problem:**

(a) Oil loss from the number 4 bearing compartment has resulted in oil ignition and caused heat distress damage to High Pressure Turbine (HPT) and Low Pressure Turbine (LPT) hardware. The oil loss has been caused by either rear number 4 carbon seal fractures due to fractured HPT metering plugs or insufficient number 4 bearing compartment oil scavenging during engine sub-idle operation.

- (b) HPT and/or LPT Heat distress damage caused by the ignition of oil that had leaked from the No. 4 bearing compartment is called "Oil in Turbine" damage.

(2) Background:

- (a) Between March 1993 and October 2006, there have been nineteen confirmed instances of HPT and/or LPT distress caused by sub-idle flooding of the number 4 bearing compartment.
- (b) Between January 2001 and October 2006, there have been five confirmed instances of HPT and/or LPT distress caused by fractured HPT metering plugs that had caused damage to and oil leakage past the rear No. 4 carbon seal.

(3) Objective:

- (a) Tables 1, 2 and 3 list Modification Service Bulletins that will eliminate the root causes for Oil in Turbine damage. These Service Bulletins are referred to as "Package 1" modifications and "Package 2" modifications.
- (b) Package 1 modifications primarily affect components within the engine interior.

Package 2 modifications primarily affect engine externals and the nacelle.

Both Package 1 and Package 2 modifications are required to provide corrective action for the V2500-A1 and V2500-A5 engine models. The V2500-D5 engine models require only the Package 1 modifications to provide corrective action.

(4) Substantiation:

This Service Bulletin acts as a reference to other existing Service Bulletins that together constitute the Oil in Turbine Package 1 and Package 2 modifications. Substantiation is provided in each of the individual Service Bulletins.

(5) Effects of Bulletin on:

- (a) Removal/Installation

See referenced Service Bulletins.

- (b) Disassembly/Assembly

See referenced Service Bulletins.

(c) Cleaning

Not affected.

(d) Inspection/Check

Not affected.

(e) Repair

Not affected.

(f) Testing

Not affected.

(6) Supplemental Information

None.

D. Description

- (1) Install the components specified in the referenced Service Bulletins as indicated in Tables 1, 2 and 3 of the Appendix.

NOTE: Service Bulletin V2500-ENG-72-0511 is an alternate to Service Bulletin V2500-ENG-72-0451 for all engine models except the V2500-A1. Engine owners can choose either bulletin for incorporation. These two bulletins can not be incorporated concurrently.

- (2) Table 4 of the Appendix specifies which part numbers are required to be replaced to provide corrective action to the Oil in Turbine issue. All other parts specified within the referenced Service Bulletins are concurrent requirements to make the necessary hardware fit within the engine envelope. This information is provided for information only. Operators must introduce all new/reworked part numbers that are specified in the referenced Service Bulletins that are applicable to their engine(s).

E. Compliance

TD

The compliance category code of each referenced Service Bulletins must be followed.

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 models given.

The compliance statement and the procedures described in this Service Bulletin have been shown to comply with the applicable Federal Aviation Regulations and are FAA-APPROVED for the Engine Model listed.

G. Manpower

- (1) See referenced Service Bulletins for details of manpower requirements.
- (2) The total manpower to accomplish all Service Bulletins required for the V2500-A1 engine model will be determined by Service Bulletins requiring incorporation.
- (3) The total manpower to accomplish all Service Bulletins required for the V2522-A5, V2524-A5, V2527-A5, V2527E-A5, V2527M-A5, V2530-A5 and V2533-A5 engine models will be determined by Service Bulletins requiring incorporation.
- (4) The total manpower to accomplish all Service Bulletins required for the V2525-D5 and V2528-D5 engine models will be determined by Service Bulletins requiring incorporation.
- (5) Tables 1, 2 and 3 in the Appendix specify which of the referenced Service Bulletins apply to each engine model.

H. Weight and Balance

- (1) Weight Change

See individual Service Bulletins for weight changes.

- (2) Moment Arm

No Effect.

- (3) 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

- (1) Service Information Letter 190, Issue 10 (July 15, 2004).
- (2) IAE V2500 Service Bulletin V2500-ENG-70-0008 (Standard Practices - Engine - Information - Announcement Of New Stage 1 HPT Metering Plugs.)
- (3) IAE V2500 Service Bulletin V2500-ENG-70-0115 (Information - Engine - Provide Additional Options For The No.1 And No. 4 Face Seal Assemblies).
- (4) IAE V2500 Service Bulletin V2500-ENG-70-0200 (Standard Practices - Engine - Information - Engine - Diffuser And Combustion Group - Provide A New No. 4 Bearing Front Cooling Duct Assembly).
- (5) IAE V2500 Service Bulletin V2500-ENG-71-0276 (Engine - Engine Build Unit (EBU) - Rework Of Electrical Harness And Bracket Assembly To Accommodate The Routing Of The Oil Scavenge Tubes).
- (6) IAE V2500 Service Bulletin V2500-ENG-72-0004 (Engine - Diffuser Case Assembly - Replace The No. 4 Bearing Scavenge Tube Assembly).
- (7) IAE V2500 Service Bulletin V2500-ENG-72-0032 (Engine - Diffuser And Combustion Group And No. 4 Bearing Front And Rear Compartment - Incorporate New No. 4 Bearing Carbon Seal Assemblies Made Of Revised Material).
- (8) IAE V2500 Service Bulletin V2500-ENG-72-0097 (Engine - No. 4 Bearing Compartment - Provide A New No. 4 Bearing Cooling Duct And Heatshield With Improved Sealing Features).
- (9) IAE V2500 Service Bulletin V2500-ENG-72-0111 (Engine - HP Turbine Rotor And Stator Assembly - New Stage 1 HPT Air Seal).
- (10) IAE V2500 Service Bulletin V2500-ENG-72-0120 (Engine - No. 4 Bearing Compartment - Provide A New No. 4 Bearing Scavenge Tube Assembly And Gasket).
- (11) IAE V2500 Service Bulletin V2500-ENG-72-0123 (Engine - HP Turbine Rotor And Stator Assembly - Provide A New Stage 1 HPT Hub Metering Plug With A Smaller Metering Hole And Transfer The Hub Details To The Stage 1 Turbine Rotor Assembly).
- (12) IAE V2500 Service Bulletin V2500-ENG-72-0163 (Engine - No. 4 Bearing Compartment - Provide A New No. 4 Bearing Seal Assembly With Nuts Silver Plated On The Threads Only).

Feb. 5/07

Mar.12/08 Revision 4

V2500-ENG-72-0541

Page 5

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- (13) IAE V2500 Service Bulletin V2500-ENG-72-0168 (Engine - No. 4 Bearing Compartment - Introduce A New No. 4 Bearing Oil Tube Assembly).
- (14) IAE V2500 Service Bulletin V2500-ENG-72-0180 (Engine - HP Turbine Rotor And Stator Assembly - Introduce A New First Stage Turbine Air Seal).
- (15) IAE V2500 Service Bulletin V2500-ENG-72-0190 (Engine - HP Turbine Rotor And Stator Assembly - Introduce A New Stage 1 HPT Air Seal And A New No. 4 Bearing Cooling Duct Assembly).
- (16) IAE V2500 Service Bulletin V2500-ENG-72-0282 (Engine - Provide New Front And Rear No. 4 Bearing Face Seals).
- (17) IAE V2500 Service Bulletin V2500-ENG-72-0314 (Engine - Conversion - Provide Instructions To Change The V2500-A5 Engine Start Crank By Modifying The Data Entry Plug).
- (18) IAE V2500 Service Bulletin V2500-ENG-72-0351 (Engine - HP Turbine Rotor And Stator Assembly - Introduce A New First Stage Turbine Air Seal).
- (19) IAE V2500 Service Bulletin V2500-ENG-72-0401 (Engine - Provide Nickel Plating On The Number 4 Carbon Seal Housing Pilot Diameter).
- (20) IAE V2500 Service Bulletin V2500-ENG-72-0415 (Engine - Provide New Front And Rear Number 4 Bearing Ducts With Oil Drain Holes).
- (21) IAE V2500 Service Bulletin V2500-ENG-72-0430 (Engine - High Pressure Turbine First Stage Metering Plug Replacement).
- (22) IAE V2500 Service Bulletin V2500-ENG-72-0434 (Engine - Provide New Number 4 Bearing Inner Weep Tube And Outer Weep Manifold).
- (23) IAE V2500 Service Bulletin V2500-ENG-72-0435 (Engine - LP Compressor - Introduction Of A Fan Case, Panel And Bracket Scaloped For No. 4 Scavenge Tube Reroute).
- (24) IAE V2500 Service Bulletin V2500-ENG-72-0439 (Engine - No. 4 Compartment Strainer Improvement).
- (25) IAE V2500 Service Bulletin V2500-ENG-72-0451 (Engine - High Pressure Turbine First Stage Disk Metering Plug Redesign).
- (26) IAE V2500 Service Bulletin V2500-ENG-72-0511 (Engine - New 1st Stage Rotor Assembly With Metering Plugs Removed And New 1st Stage HPT Seal).
- (27) IAE V2500 Service Bulletin V2500-ENG-79-0001 (Oil - Incorporate Revised No. 4 And No. 5 Bearing Oil Scavenge Tube Assemblies).
- (28) IAE V2500 Service Bulletin V2500-ENG-79-0035 (Engine - Oil - Provide A Rerouted No. 4 Bearing Oil Scavenge Tube Assembly).

- (29) IAE V2500 Service Bulletin V2500-ENG-79-0044 (Engine - Oil - Introduce A New No.4 Bearing Scavenge Valve With An Improved Valve Seal).
- (30) IAE V2500 Service Bulletin V2500-ENG-79-0083 (Engine - Oil - Replacement Of 1648Mk2 No. 4 Bearing Scavenge Valves).
- (31) IAE V2500 Service Bulletin V2500-ENG-79-0087 (Oil - Scavenge Tubes - Re-Route Of The Number 4 Bearing Scavenge Tube).
- (32) IAE V2500 Service Bulletin V2500-ENG-79-0088 (Oil - Scavenge Tubes - Re-Route Of Number 4 Bearing Scavenge Tube).
- (33) IAE V2500 Service Bulletin V2500-NAC-71-0272 (Nacelle - Engine Build Unit (EBU) - Replacement And Rerouting Of Several EBU Systems To Accommodate The Rerouting Of The Oil Scavenge Tubes).
- (34) IAE V2500 Service Bulletin V2500-NAC-71-0273 (Nacelle - Engine Build Unit (EBU) - Replacement And Rerouting Of Several EBU Systems To Accommodate The Rerouting Of The Oil Scavenge Tubes).
- (35) IAE V2500 Service Bulletin V2500-NAC-71-0285 (Nacelle - Right Hand Fan Cowl Door - Hold Open Rod - Re-Orientation Of The Hold Open Rod And Installation Of A New Rod Stowage Bracket).
- (36) 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).
- (37) V2500 Engine Manual (E-V2500-1IA) or (E-V2500-3IA).
- (38) V2500 Standard Practices/Processes Manual (E-V2500-1IA) or (E-V2500-3IA).
- (39) Internal Reference No. - 06VC251.
- (40) ATA Locator - 72-40-00.

L. Other Publications Affected

Not applicable.

M. Interchangeability of Parts

The interchangeability requirements of the applicable Service Bulletins must be followed.

N. Information in the Appendix

Alternate Accomplishment Instructions (No)

Progression Charts (No)

Added Data (No)

Revision to Table of Limits (No)

Inspection Procedures (No)

Printed in Great Britain

2. Material Information

A. Material – Price and Availability

Modification kit is not required.

For Price and availability of spares refer to the individual Service Bulletin.

B. Industry Support Program

Not Applicable.

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

Refer to the individual Service Bulletin for Material Information.

D. Tooling – Price and Availability

Special tools are not required to accomplish this Service Bulletin.

E. Reidentified Parts

Refer to the individual Service Bulletin for Material Information.

F. Other Material Information Data

Not Applicable.

3. Accomplishment Instructions

All of the following Service Bulletins must be incorporated to obtain the full benefit of the Oil In Turbine Fixes. Reference Service Information Letter (SIL) 190, Issue 10 (15 July 2004).

(1) Package 1 Modifications (Models A1/A5/D5)

- (a) V2500-ENG-72-0190, Revision 3 (31 October 2002).
- (b) V2500-ENG-72-0120, Revision 5 (6 December 2002).
- (c) V2500-ENG-72-0314, Revision 2 (31 October 2002).
- (d) V2500-ENG-72-0351, Revision 4 (31 October 2002).
- (e) V2500-ENG-72-0401, Revision 4 (29 November 2002).
- (f) V2500-ENG-72-0415, Revision 3 (18 August 2005).
- (g) V2500-ENG-72-0430, Revision 1 (20 August 2002).
- (h) V2500-ENG-72-0434, Revision 1 (31 October 2002).
- (i) V2500-ENG-72-0439, Revision 2 (10 February 2003).
- (j) V2500-ENG-72-0451, Revision 1 (15 October 2003).
- (k) V2500-ENG-72-0511, Initial Issue (9 October 2006).
- (l) V2500-ENG-79-0083, Revision 1 (1 August 2002).

NOTE: Service Bulletin V2500-ENG-72-0511 is an alternate to Service Bulletin V2500-ENG-72-0451 for all engine models except the V2500-A1. Engine owners can choose either bulletin for incorporation. These two bulletins can not be incorporated concurrently.

(2) Package 2 Modifications (Models A1/A5)

- (a) V2500-ENG-71-0276, Revision 1 (11 May 2004).
- (b) V2500-ENG-72-0435, Revision 2 (1 December 2005).
- (c) V2500-ENG-79-0087, Revision 1 (11 September 2003).
- (d) V2500-ENG-79-0088, Initial Issue (12 November 2003).
- (e) V2500-NAC-71-0272, Initial Issue (15 May 2003).
- (f) V2500-NAC-71-0273, Revision 3 (26 July 2004).

R

(g) V2500-NAC-71-0285, Revision 4 (6 December 2004).

NOTE: Follow the Accomplishment Instructions in each individual Service Bulletin.

(1) Recording Instructions

(a) A record of accomplishment is required.

APPENDIX 1

TABLE 1: LIST OF SERVICE BULLETINS APPLICABLE TO V2500-A1 MODELS.

Service Bulletin Number	Applicable Engine Serial Number
V2500-ENG-72-0120	V0001 thru V0277
V2500-ENG-72-0190	V0001 thru V0361
V2500-ENG-72-0351	V0001 thru V0361
V2500-ENG-72-0401	V0001 thru V0361
V2500-ENG-72-0415	V0001 thru V0361
V2500-ENG-72-0430	V0001 thru V0361
V2500-ENG-72-0434	V0001 thru V0361
V2500-ENG-72-0435	V0001 thru V0361
V2500-ENG-72-0439	V0001 thru V0361
V2500-ENG-79-0083	Applicable only to engines with PN 1648Mk2 standard of the No. 4 Scavenge Valve
V2500-ENG-79-0087	*V0001 thru V0361
V2500-NAC-71-0272	V0001 thru V0361
V2500-NAC-71-0285	*All V2500-A1 Nacelles
NOTE: *V2500-NAC-71-0285 must be incorporated prior to or concurrent with V2500-ENG-79-0087.	

TABLE 2: LIST OF SERVICE BULLETINS APPLICABLE TO V2522-A5, V2524-A5, V2527-A5, V2527E-A5, V2527M-A5, V2530-A5 AND V2533-A5 MODELS.

Service Bulletin Number	Applicable Engine Serial Number
V2500-ENG-71-0276	V10001 thru V11624 and V11627
V2500-ENG-72-0190	V10001 thru V10079
V2500-ENG-72-0314	V10001 thru V10541 for all except V2527M-A5
V2500-ENG-72-0401	V10001 thru V10649 for V2527M-A5 V10001 thru V11100 V11102, V11104, V11106, V11108, V11110 and V11112
V2500-ENG-72-0415	V10001 thru V11326 V11328, V11330, V11332, V11334, V11336 and V11338
V2500-ENG-72-0434	V10001 thru V11382 V11384
V2500-ENG-72-0435	V10001 thru V11449
V2500-ENG-72-0439	V10001 thru V11464 V11466, V11468, V11470, V11472 and V11474
V2500-ENG-72-0451	V10001 thru V11628 V11630
V2500-ENG-72-0511	V10001 thru V12530 V12532, V12534, V12536, V12538, V12540, V12542, V12544, V12546 and V12548

Feb. 5/07

Mar.12/08 Revision 4

V2500-ENG-72-0541

Appendix 1 - Page 1 of 6

Service Bulletin Number	Applicable Engine Serial Number
V2500-ENG-79-0088	V10001 thru V11624
V2500-NAC-71-0273	All nacelles prior to N6460 (EBU 1450001)
V2500-NAC-71-0285	All fan cowl doors prior to serial number 3207001

NOTE: V2500-NAC-71-0285 and V200-ENG-71-0276 must be incorporated prior to or concurrent with V2500-ENG-79-0088.

NOTE: V2500-NAC-71-0273 and V2500-NAC-71-0285 have been incorporated on all aircraft that were delivered with engines having serial numbers greater than V11624.

NOTE: Engines can have either V2500-ENG-72-0451 or V2500-ENG72-0511 incorporated, but not both.

NOTE: If V2500-ENG-72-0511 is incorporated, it must be incorporated concurrently with or subsequent to V2500-ENG-72-0190.

TABLE 3: LIST OF SERVICE BULLETINS APPLICABLE TO V2525-D5, V2528-D5 MODELS.

Service Bulletin Number	Applicable Engine Serial Number
V2500-ENG-72-0190	V20001 thru V20006
V2500-ENG-72-0401	V20001 thru V20285
V2500-ENG-72-0415	V20001 thru V20285
V2500-ENG-72-0434	V20001 thru V20285
V2500-ENG-72-0439	V20001 thru V20285
V2500-ENG-72-0451	V20001 thru V20285
V2500-ENG-72-0511	V20001 thru V20285

NOTE: Engines can have either V2500-ENG-72-0451 or V2500-ENG-72-0511 incorporated, but not both.

NOTE: If V2500-ENG-72-0511 is incorporated, it must be incorporated concurrently with or subsequent to V2500-ENG-72-0190.

TABLE 4: LIST OF PART NUMBERS THAT MUST BE REPLACED TO PROVIDE CORRECTIVE ACTION.

NOTE: This table lists primary part numbers which must be replaced in order to provide corrective action for the Oil in Turbine issue. All other part number replacements in the referenced Service Bulletins are to make these critical parts fit within the engine.

NOTE: This table is for informational purposes only. Operators must accomplish all applicable Service Bulletins in full.

ATA 72-42-20

Figure Index	Model	Part Number	Part Name	Reference Service Bulletin
03-040	A1/A5/D5	2A0367-01	Tube Assy Of, Weep, No. 4 Bearing Outer	Baseline
03-040	A1/A5/D5	2A2873-01	Tube Assy Of, Weep, No. 4 Bearing Outer	V2500-ENG-72-0168
02-020	A1	2A0830-01	Tube, Scavenge, No. 4 Bearing Assy	Baseline
02-020	A1	2A1949-01	Tube, Scavenge, No. 4 Bearing Assy	Not Sold As Spare
02-020	A1	2A2028-01	Tube, Scavenge, No. 4 Bearing Assy	V2500-ENG-72-0004
02-020	A1	2A0830-001	Tube, Scavenge, No. 4 Bearing Assy	V2500-ENG-72-0004
02-020	A1	2A2274-01	Tube, Scavenge, No. 4 Bearing Assy	V2500-ENG-72-0004

ATA 72-42-33

Figure Index	Model	Part Number	Part Name	Reference Service Bulletin
01-010	A1	2A0853	Seal Assy, No. 4 Bearing, Front	Baseline
01-010	A1/A5	2A2055	Seal Assy, No. 4 Bearing, Front	V2500-ENG-72-0032
01-010	A1/A5/D5	2A2834	Seal Assy, No. 4 Bearing, Front	V2500-ENG-72-0163
01-010	A1/A5/D5	2A2930	Seal Assy, No. 4 Bearing, Front	V2500-ENG-70-0115
01-001	A1/A5/D5	2A3525	Seal Assy, No. 4 Bearing, Front	V2500-ENG-72-0282
01-001	A1/A5/D5	2A3538	Seal Assy, No. 4 Bearing, Front	V2500-ENG-72-0401
01-020	A1/A5/D5	2A0851	Support Assy, No. 4 Bearing, Seal	Baseline
01-020	A1/A5/D5	2A2833	Support, No. 4 Bearing, Seal Assy	V2500-ENG-72-0163
01-020	A1/A5/D5	2A3537	Support, No. 4 Bearing, Seal Assy	V2500-ENG-72-0401

Feb. 5/07

Mar.12/08 Revision 4

V2500-ENG-72-0541

Appendix 1 - Page 3

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ATA 72-42-35

Figure Index	Model	Part Number	Part Name	Reference Service Bulletin
01-010	A1/A5	2A0892-01	Duct Assy, Cooling Air, No. 4 Bearing, Front	Baseline
01-010	A1/A5/D5	2A2257-01	Duct Assy, Cooling Air, No. 4 Bearing, Front	V2500-ENG-70-0200

ATA 72-43-20

Figure Index	Model	Part Number	Part Name	Reference Service Bulletin
01-020	A1/A5/D5	2A2056	Seal Assy, No. 4 Bearing, Rear	Baseline
01-020	A1/A5/D5	2A2931	Seal Assy, No. 4 Bearing, Rear	V2500-ENG-70-0115
10-001	A1/A5/D5	2A3526	Seal Assy, No. 4 Bearing, Rear	V2500-ENG-72-0282
01-060	A1/A5/D5	2A0847	Seal Ring Holder	Baseline
01-010	A1/A5	2A0891-01	Duct Assy, Cooling Air, No. 4 Bearing, Rear	Baseline
01-010	A1/A5/D5	2A1205-01	Duct Assy, Cooling Air, No. 4 Bearing, Rear	V2500-ENG-72-0097
01-010	A1/A5/D5	2A3078-01	Duct Assy, Cooling Air, No. 4 Bearing, Rear	V2500-ENG-72-0190

ATA 72-45-11

Figure Index	Model	Part Number	Part Name	Reference Service Bulletin
01-040	A1/A5	2A0594	Metering Plug, HPT Hub, Stage 1	Baseline
01-040	A1/A5	2A1040	Metering Plug, HPT Hub, Stage 1	V2500-ENG-70-0008
01-040	A1	2A2181	Metering Plug, HPT Hub, Stage 1	V2500-ENG-72-0123
01-040	A5/D5	2A2354	Metering Plug, HPT Hub, Stage 1	Baseline

Figure Index	Model	Part Number	Part Name	Reference Service Bulletin
01-040	A5/D5	2A3182 *	Metering Plug, HPT Hub, Stage 1	V2500-ENG-72-0240

NOTE: *Metering Plug Part Number 2A3182 must be removed for all HPT Stage 1 Rotor Assemblies except for HPT Stage 1 Rotor Assembly Part Numbers 2A9521-002 and 2A9621-002.

ATA 72-45-13

Figure Index	Model	Part Number	Part Name	Reference Service Bulletin
01-020	A1	2A0884	Seal Air, HPT Stage 1	Baseline
01-020	A1	2A1203	Seal Air, HPT Stage 1	V2500-ENG-72-0111
01-020	A1	2A0884-001	Seal Air, HPT Stage 1	V2500-ENG-72-0351
01-020	A5/D5	2A1352	Seal Air, HPT Stage 1	Baseline
01-020	A5/D5	2A3032	Seal Air, HPT Stage 1	V2500-ENG-72-0180

ATA 79-22-49

Figure Index	Model	Part Number	Part Name	Reference Service Bulletin
03-100	A1	5R8111	Tube A/O Oil - No. 4 Brg Scav Dif Case to Bif Panel	Baseline
03-100	A1/A5	5R8138	Tube A/O Oil - No. 4 Brg Scav Dif Case to Bif Panel	V2500-ENG-79-0001
03-100	A1/A5	6A5367	Tube A/O Oil - No. 4 Brg Scav Dif Case to Bif Panel	V2500-ENG-79-0035
04-100	A1/A5	5A9083	Tube A/O Oil - No. 4 Brg Discon to Discon	Baseline
04-500	A1/A5	5A9084	Tube A/O Oil - No. 4 Brg Discon to Scav Valve	Baseline
05-100	A1/A5	5A8573	Tube A/O Oil - Press 'T' To Pressure Transducer	Baseline

ATA 79-23-51

Figure Index	Model	Part Number	Part Name	Reference Service Bulletin
01-100	A1	1648MK2	Scavenge Valve	V2500-ENG-79-0044

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NON – MODIFICATION SERVICE BULLETIN FOR OIL IN TURBINE FIXESSupplement

Refer to the individual Service Bulletins for Supplement information.

1. Modification Kit

A. There is no kit provided to do this Service Bulletin.

2. Material Cost

Refer to the individual Service Bulletins for Material Cost.

A. There is no kit provided to do this Service Bulletin.

3. New Production Parts

Refer to the individual Service Bulletins for New Production Parts.