SERVICE BULLETIN

POWERPLANT — HARNESS CLAMP — REDUCTION OF HARNESS CLAMP SIZE REQUIREMENT AT CLIPPING POINT 2409

MODEL APPLICATION

V2525-D5, V2528-D5

BULLETIN ISSUE SEQUENCE

V2500 Series 71-0319

ATA NUMBER

71-51-00

Compliance Category

6

P&W Distribution Code

V2500

Summary

The purpose of this Service Bulletin is to replace the harness clamps at clipping point 2409 with a smaller size to prevent relative movement which might lead to chafing of an adjacent oil line.

Planning Information

Effectivity Data

Engine Models Applicable

V2525-D5, V2528-D5
Engine Serial Nos. V20001 thru V20285

Concurrent Requirements

There are no concurrent requirements.

Reason

1. Condition: Loss of oil and low oil pressure was attributed to a chafed Oil Scavenge Tube, PN 6A5089 adjacent to clipping point 2409. Chafing was caused by the bolt attached to clipping point 2409 when clamps moved along the harness.
2. Background: An In-Flight Shutdown (IFSD) occurred in service due to loss of oil quantity and low oil pressure. Loss of oil was due to chafing of a bolt causing a hole to the Oil Scavenge Tube, PN 6A5089 at clipping point 2409.
3. Objective: Provide instructions to replace the clamps.
4. Substantiation: Investigation showed that chafing of the oil tube can be avoided by installing smaller clamps.
5. Effects of Bulletin on:

   Removal/Installation: Affected.

   Disassembly/Assembly: Not Applicable.

   Cleaning: Not Applicable.

   Inspection/Check: Affected.

   Repair: Not Applicable.

   Testing: Not Applicable.
6. Supplemental Information

   None.

Description

Replace the harness clamp at clipping point 2409.

Compliance

Category 6

Accomplish when the subassembly (i.e. modules, accessories, components, build groups) is disassembled sufficiently to afford access to the affected part and to all affected spare parts.

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 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.

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

Manpower

1. In Service

   To gain access: ..... 0.5 hours

   To embody: ..... 0.5 hours

   To close up: ..... 0.5 hours

2. At Overhaul

   To embody: ..... 0.5 hours

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 — 71-51-54, 71-51-59.
2. V2500 Standard Practices and Processes, P&W Ref. PN 2A4414, Chapter/Section 70-43-02-400-501.
3. V2500-D5, Series Illustrated Parts Catalog, P&W Ref. PN 2A4426, Chapter/Section 71-51-54-01, 71-51-59-01.

4. V2500-D5 Series Engine Manual, P&W Ref. PN 2A4416, Chapter/Section 71-51-54, 71-51-59.

5. Aircraft Maintenance Manual (AMM), Chapter/Section 78-32-00.

Other Publications Affected

1. None

Interchangeability of Parts

One way interchangeable — The new part can be used as a replacement for the old part.

Information in the Appendix

Alternate Accomplishment Instructions (No)

Progression Charts (No)

Added Data (Yes)

Revision to Table of Limits (No)

Inspection Procedures (No)

Material Information

Material — Price and Availability

1. There is no kit provided to do this Service Bulletin.
2. 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 V2525-D5, V2528-D5 Engines:

New PN	Qty	Estimate of Unit Price ($)	Keyword	Old PN	Instructions — Disposition
AS62516	1	29.00	CLAMP, LOOP, STYLE, CUSHION	AS62518 (71-51-54-01-360)	(A)(C1)(S3)
AS62509	1	24.90	CLAMP, LOOP, STYLE, CUSHION	AS62510 (71-51-59-01-376)	(A)(C1)(S3)

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.

Spare Parts Availability

(A) The new part is available.

(C1) The old part will continue to be supplied for use at other locations.

(S3) Parts are not interchangeable, but new part may be fitted in lieu of the superseded part, but not vice-versa.

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 Engines Installed on The Aircraft

WARNING: DO NOT TOUCH THE ENGINE COMPONENTS FOR A SHORT TIME AFTER THE ENGINE IS SHUT DOWN. THE COMPONENTS CAN STAY HOT FOR UP TO 1 HOUR AND CAN CAUSE INJURY.

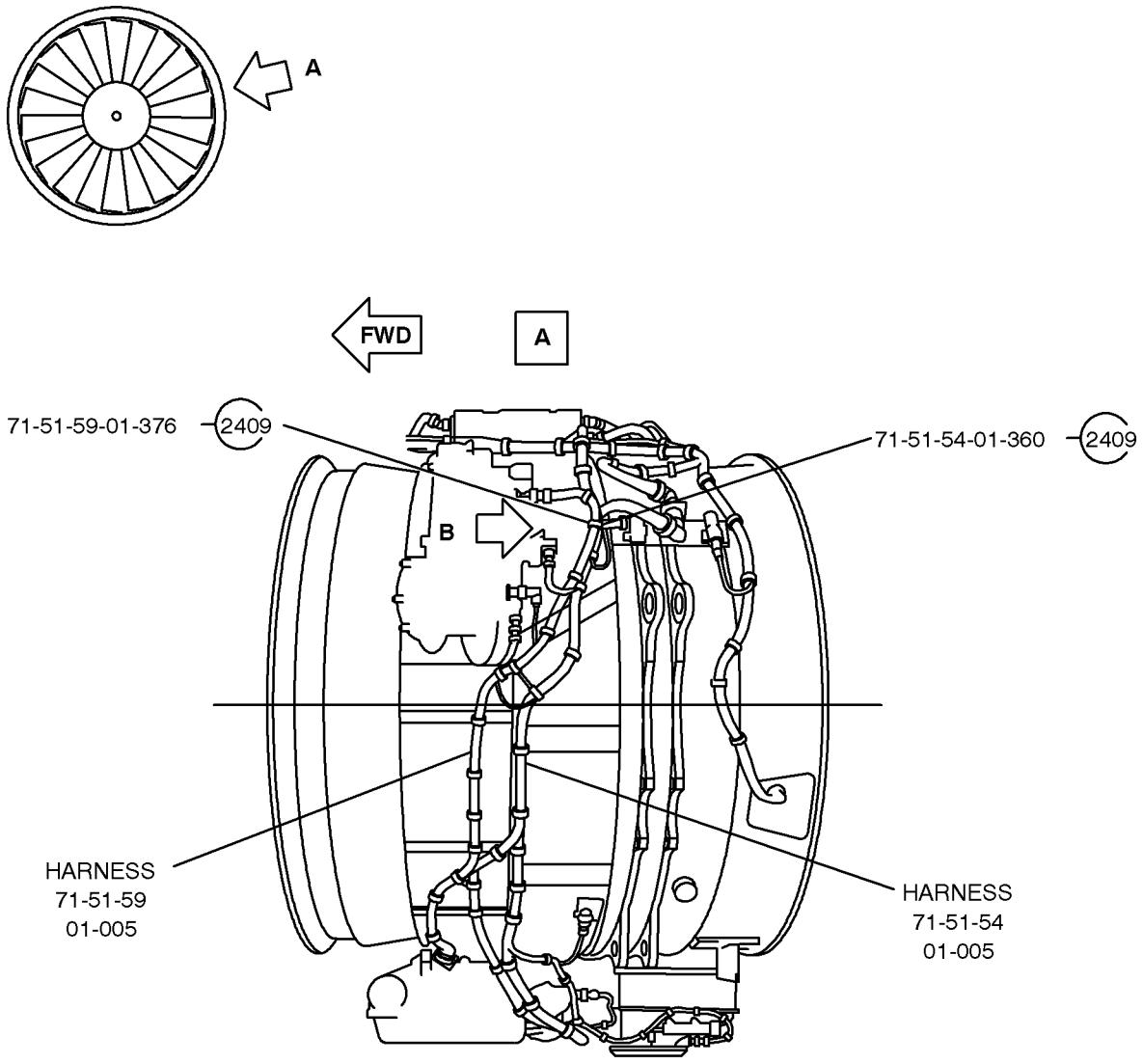
NOTE: Service bulletin incorporation on engines installed on aircraft may be desirable and should be individually evaluated.

1. Open thrust reverser halves in accordance with Reference 5, Aircraft Maintenance Manual (AMM), Task 78-32-00.
2. Remove the Nut, PN 4W0001 and the Bolt, PN AS20908 which attach the Clamp, PN AS62518 and PN AS62510 at clipping point 2409. See Figures 1 and 2 for location of the parts.
3. Remove the Clamp, PN AS62518 and PN AS62510.
4. Obtain the new Clamps, PN AS62516 and PN AS62509.
   A. Replace Clamp, PN AS62518 with Clamp, PN AS62516.
   B. Replace Clamp, PN AS62510 with Clamp, PN AS62509.
5. Install the new Clamp, PN AS62516 and PN AS62509, Bolt, PN AS20908 with shaft showing upwards (see Figure 2) and Nut, PN 4W0001 at clipping point 2409 in accordance with Reference 2, Standard Practices Manual (SPM), Task 70-43-02-400-501. Torque the Nut, PN 4W0001 to 36 – 45 lbf-in. (4 – 5 N-m).
6. Manually check if clamp holds properly the harness bundles and not slide along the bunches.
7. Close thrust reverser halves in accordance with Reference 5, AMM, Task 78-32-00.
8. Recording Instructions
   A. A record of accomplishment is required.

For Engines Removed from The Aircraft

1. Remove the Nut, PN 4W0001 and the Bolt, PN AS20908 which attach the Clamp, PN AS62518 and PN AS62510 at clipping point 2409. See Figures 1 and 2 for location of the parts.
2. Remove the Clamp, PN AS62518 and PN AS62510.
3. Obtain the new Clamps, PN AS62516 and PN AS62509.
   A. Replace Clamp, PN AS62518 with Clamp, PN AS62516.
   B. Replace Clamp, PN AS62510 with Clamp, PN AS62509.
4. Install the new Clamp, PN AS62516 and PN AS62509, Bolt, PN AS20908 with shaft showing upwards (see Figure 2) and Nut, PN 4W0001 at clipping point 2409 in accordance with Reference 2, SPM, Task 70-43-02-400-501. Torque the Nut, PN 4W0001 to 36 – 45 lbf-in. (4 – 5 N-m).
5. Manually check if clamp holds the harness bundles properly and not slide along the bunches.
6. Recording Instructions

A. A record of accomplishment is required.



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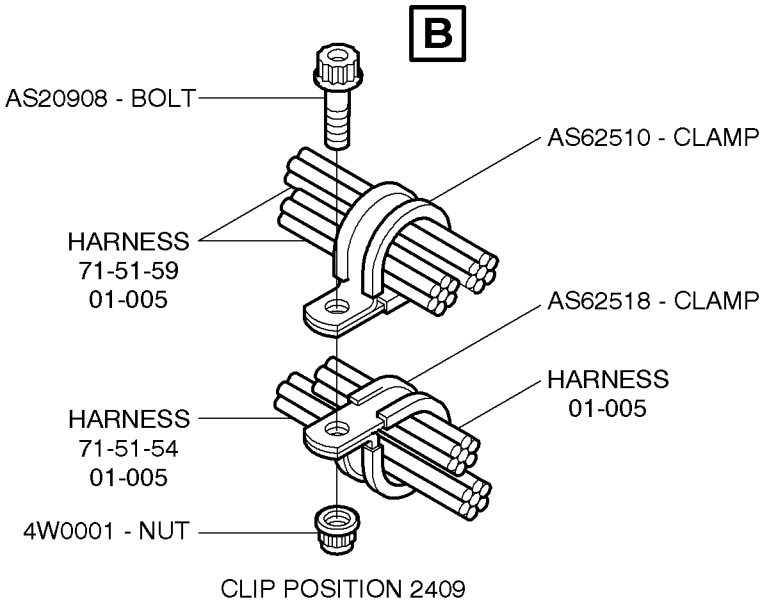
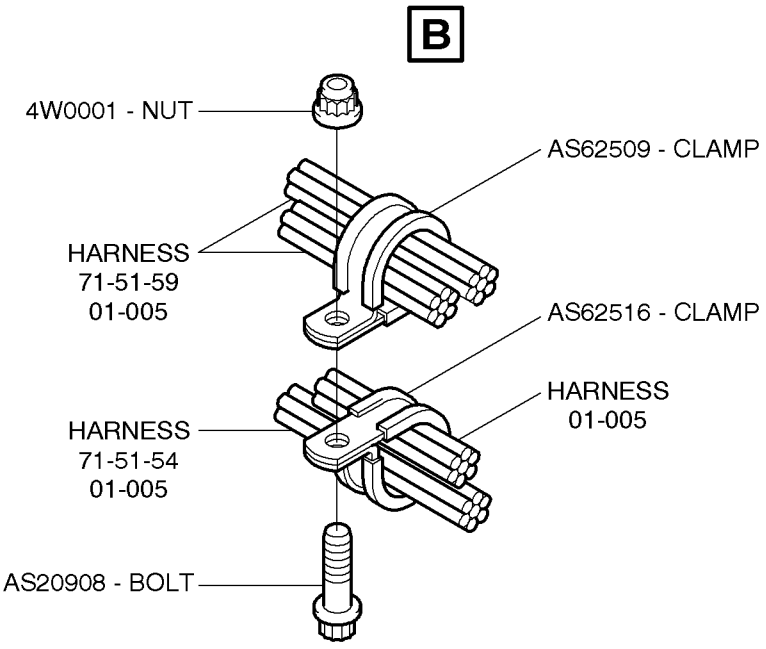
LOCATION OF CLIPPING POINT 2409
FIGURE 1



PRE SB



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DETAILS OF CLIPPING POINT 2409
FIGURE 2

Appendix

Added Data

Internal Reference Information

Revision No.	Reference Document	Origination
Original	EC14VU001	DJ/MTU-U/JP/IEL

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

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Technical Publications Cross Reference Table

Publication	Engine Model(s)	IAE IETM Pub Ref	P&W Part Number
ENGINE MANUAL — D5	All	E-V2500-3IA	2A4416
SPPM (SPM) — A1, A5, D5	All	SPP-V2500-1IA	2A4414
EIPC — D5	V2525/V2528-AQ02	S-V2500-3IA	2A4426
	V2525/V2528-AQ03	S-V2500-3IB	
	V2525/V2528-AQ04	S-V2500-3IC	