



ENGINE - NO. 4 BEARING COMPARTMENT - INTRODUCE A NEW NO. 4 BEARING OIL TUBE ASSEMBLY -
CATEGORY CODE 6 - MOD.ENG-72-0168

1. Planning Information

A. Effectivity

- (1) Aircraft: Airbus A320, A321
McDonnell Douglas MD-90
- (2) Engine: V2500-A1 Engine Serial No. V0353 and Engines before Serial No.V0337
V2527-A5 Engines before Serial No.V10051
V2530-A5 Engines before Serial No.V10051
V2525-D5 Engines before Serial No.V20007
V2528-D5 Engines before Serial No.V20007

B. Reason

(1) Condition

It was possible to have interference between the No. 4 Bearing and Airframe Outer Tube Assembly and the active clearance control linkage. Also, the sealing function did not always operate correctly.

(2) Background

During the assembly procedure, some engines had No. 4 Bearing and Airframe Outer Tube Assemblies with interference and/or sealing problems.

(3) Objective

To improve the fit and the sealing function of the No. 4 Bearing and Airframe Outer Tube Assembly.

(4) Substantiation

None.

(5) Effects of Bulletin on Workshop Procedures:

Removal/Installation	Not affected
Disassembly/Assembly	Not affected
Cleaning	Not affected
Inspection/Check	Not affected
Repair	Not affected
Testing	Not affected

(6) Supplemental Information

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None.

C. Description

(1) Replace the No. 4 Bearing Outer Tube Assembly with one that has the following features:

(a) A decreased length.

(b) A connector with improved O. D. sealing.

D. Approval

The Part Number Changes and/or part modifications described in Section 2 and 3 of this Service Bulletin have been shown to comply with the applicable Federal Aviation Regulations and are FAA-APPROVED for the Engine Model listed.

E. Compliance

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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.

F. Manpower

Estimated Manhours to incorporate the full intent of this Bulletin for V2500-D5 Engines only :

Venue	Estimated Manhours
(1) In service	Not applicable
(2) At overhaul	Not applicable
(Note: The parts affected by this Service Bulletin are accessible at overhaul.)	

G. Material - Price and Availability

(1) Modification Kit not required.

(2) See "Material Information" section for prices and availability of future spares.

H. Tooling - Price and Availability

Special tools are not required to accomplish Sub-division 2 of this Service Bulletin.

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**SERVICE BULLETIN****I. Weight and Balance**

- | | | | | | |
|-----|---------------|----|----|----|---|
| (1) | Weight change | .. | .. | .. | None |
| (2) | Moment arm | .. | .. | .. | No effect |
| (3) | Datum | .. | .. | .. | Engine front mount Centerline
(Powerplant station P.P.S.100) |

J. Electrical Load Data

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

K. Reference

- (1) Internal Reference No.

92VA167

- (2) Other References

V2500 Engine Illustrated Parts Catalogs (V2500-A1, V2500-A5 and V2500-D5).

V2500 Engine Manual.

MD-90 Engine Manual.

L. Other Publications Affected

- (1) The V2500 Engine Illustrated Parts Catalog Chapter/Section 72-42-20, Figure 3 (for the V2500-A1, V2500-A5 and V2500-D5), to add the new parts.
- (2) The V2500 Engine Manual Chapter/Section 72-42-20, Cleaning, to add the new parts.
- (3) The V2500 Engine Manual Chapter/Section 72-42-20, Inspection, to add the new parts.
- (4) The V2500 Engine Manual Chapter/Section 72-42-20, Repair, to add the new parts.
- (5) The MD-90 Engine Manual Chapter/Section 72-42-20, Cleaning, to add the new parts.
- (6) The MD-90 Engine Manual Chapter/Section 72-42-20, Inspection, to add the new parts.
- (7) The MD-90 Engine Manual Chapter/Section 72-42-20, Repair, to add the new parts.

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2. Accomplishment Instructions

A. Rework Instructions

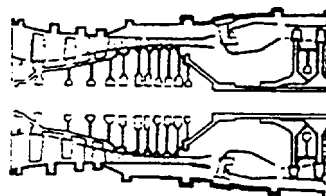
- (1) There are no rework instructions necessary to accomplish this Service Bulletin.

B. Assembly Instructions

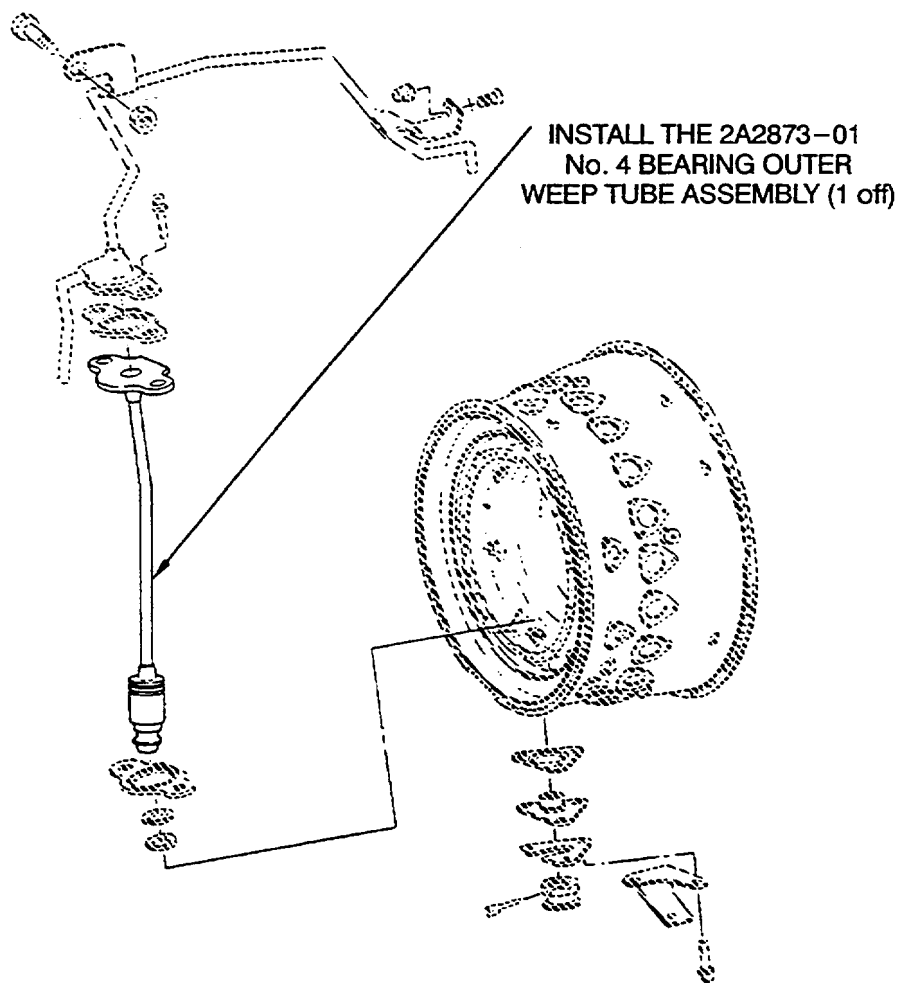
- (1) For V2500-A1 and V2500-A5 Engines
 - (a) Install the 2A2873-01 No. 4 Bearing Outer Weep Tube Assembly (1 off) by the approved procedure given in Reference (2), Chapter/Section 72-42-10, Assembly, and Figure 1.
- (2) For V2500-D5 Engines
 - (a) Install the 2A2873-01 No. 4 Bearing Outer Weep Tube Assembly (1 off) by the approved procedure given in Reference (3), Chapter/Section 72-42-10, Assembly, and Figure 1.

C. Recording Instructions

- (1) A record of accomplishment is necessary.



MODULE 40



B8948A

Location of the No. 4 Bearing Outer Tube Assembly
Fig.1

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SERVICE BULLETIN

3. Material Information

Applicability: For each V2500 Engine to incorporate this Bulletin.

A. Kits associated with this Bulletin:

None.

B. Parts affected by this Bulletin:

New Part No. (ATA No.)	Qty	Est'd Unit Price (\$)	Keyword	Old Part No. (IPC No.)	Instructions Disposition
- (72-42-20)	1	-	.Tube, Assembly, Outer No. 4 Bearing	2A0367-01 (03-040)	(S1) (A)
2A2873-01 (72-42-20)	1	894.00	.Tube, No. 4 Bearing Weep, Outer Assembly	- (03-040)	(S1) (B)

C. Instruction/Disposition Code Statements:

(S1) Old Parts and new parts coded (S1) are freely and fully interchangeable.

(A) Old part is no longer available.

(B) New part is currently available.

NOTE: The estimated 1994 unit prices shown are provided for planning purposes only and do not constitute a firm quotation. Consult the IAE Price Catalog or contact IAE's Spare Parts Sales Department for information concerning firm prices.

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