



ENGINE – MAIN GEARBOX ASSEMBLY – PROVIDE NEW OIL SCAVENGE PUMP SPACERS WITH IMPROVED ANTIROTATION FEATURES – CATEGORY CODE 4 – MOD.ENG-72-0118

1. Planning Information

A. Effectivity

- (1) Aircraft: Airbus A320
- (2) Engine: V2500-A1 engines before serial number V0291 except V0287 and V0289.

B. Reason

(1) Condition

(a) Premature wear may occur on existing oil scavenge pump spacers.

(2) Background

This condition was observed in service.

(3) Objective

To improve engine reliability.

(4) Substantiation

A 150 hours endurance test has successfully been carried out

(5) Effects of Bulletin on Workshop Procedures:

Removal/Installation	Not affected
Disassembly/Assembly	Affected (see supplemental information)
Cleaning	Not affected
Inspection/Check	Affected (see supplemental information)
Repair	Not affected
Testing	Not affected

(6) Supplemental Information

(a) The assembly procedure requires use of classified spacers.

(b) Inspection procedures will be revised adding reference to pins condition.

C. Description

The spacer changes introduced by this Service Bulletin are as follows:

V2500-ENG-72-0118



SERVICE BULLETIN

The spacers have a hard coating.

The spacers have a pin on the flat surface to ensure correct alignment and prevent their relative rotation.

The new spacers are classified.

D. Approval

The part number changes and 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

Category 4

Accomplish at the first visit of an engine or module to a maintenance base capable of compliance with the accomplishment instructions regardless of the planned maintenance action or the reason for engine removal.

F. Manpower

Estimated man-hours to incorporate the full intent of this Bulletin:

Venue	Estimated Man-hours
(1) In Service	1 hour 11 minutes
(2) At overhaul	Not applicable (Parts are accessible at overhaul)

G. Material – Price and Availability

- (1) Modification Kit is not required.
- (2) See "Material Information" section for prices and availability of future spares.

H. Tooling – Price and Availability

None

I. Weight and Balance

- (1) Weight change Not significant
- (2) Moment arm No effect

V2500–ENG–72–0118



SERVICE BULLETIN

(3) Datum

Engine front mount centreline
(Powerplant Station (P.P.S) 100)

J. Electrical Load Data

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

K. References

(1) Internal Reference No.

EC91VF018

EC92VF035

(2) Other References

The V2500 Component Maintenance Manual – Miscellaneous Mechanical Components.

A320/V2500 Maintenance Manual.

Authorization Document 92VF806A

Authorization Document 92VF807A

L. Other Publications Affected

- (1) The V2500 Illustrated Parts Catalog, Chapter/Section 79-22-41 to add the new parts.
- (2) The V2500 Power Plant Illustrated Parts Catalog, Chapter/Section 79-22-41, to add the new parts.
- (3) The V2500 Component Maintenance Manual – Miscellaneous Mechanical Components, Chapter/Section 79-22-41, Assembly/Disassembly to add the new parts.
- (4) The V2500 Component Maintenance Manual – Miscellaneous Mechanical Components, Chapter/Section 79-22-41, Cleaning, to add the new parts.
- (5) The V2500 Component Maintenance Manual – Miscellaneous Mechanical Components, Chapter/Section 79-22-41, Inspection, to add the new parts.
- (6) The V2500 Component Maintenance Manual – Miscellaneous Mechanical Components, Chapter/Section 79-22-41, Repair, to add the new parts.

V2500-ENG-72-0118



2. Accomplishment Instructions

- A. Open the fan cowls by the approved procedure in reference (2), Chapter/Section 71-13-00, Maintenance procedure
- B. Drain the oil system by the approved procedure in Reference (2), Chapter/Section 12-13-79, Servicing.
- C. Remove the oil scavenge pump magnetic chip detector and chip detector housing per the approved procedures in Reference (2), Chapter/ Section 79-22-45, Removal/Installation.
- D. Remove the oil scavenge pump P/N 4A7013 per the approved procedure in Reference (2), Chapter/Section 79-22-41, Removal/Installation.
- E. Return the removed pump to:

FIAT AVIO S.p.A.
Via Passo Buole, 22
10127-TORINO
ITALY

AVIALL Inc
Dallas Engine Service
9311 Reeves Street
Dallas, Texas 75235-2095 USA

for rework and reidentification per approved procedures in Reference (3) and (4).

- F. Install the oil scavenge pump P/N 4A7112 per the approved procedure in Reference (2), Chapter/Section 79-22-41, Removal/Installation.
- G. Install the magnetic chip detector housing and the magnetic chip detector per the approved procedures in Reference (2), Chapter/Section 79-22-45, Removal/Installation.
- H. Fill the oil system per the approved procedure in Reference (2), Chapter/Section 12-13-79, Servicing.
- I. Close the fan cowls per the approved procedure in Reference (2), Chapter/Section 71-13-00, Maintenance practices.
- J. Do a leak check per the approved procedures in Reference (2), TASK 71-00-00-710-017.
- K. A record of accomplishment is necessary.

V2500-ENG-72-0118



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.)	Instruction Disposition
4A7112 (79-22-41)	1	-	Pump, Assy oil scavenge	4A7013 (01-001)	(A)(B)(S1) (1D)
- (79-22-41)	4	-	.Spacer, Assy	4B7096 (01-200)	(S2)(B)
4B7315 (79-22-41)	REF	-	.Spacer, Assy interchangeab.	- (01-200)	(S2)
4B7315CL01 (79-22-41)	4	-	.Spacer, Assy	- (01-201)	(S3)(A)
4B7315CL02 (79-22-41)	4	-	.Spacer, Assy	- (01-202)	(S3)(A)
4B7315CL03 (79-22-41)	4	-	.Spacer, Assy	- (01-203)	(S3)(A)
- (79-22-41)	4	-	.Spacer, Assy	4B7115 (01-270)	(B)(S2)
4B7301 (79-22-41)	REF	-	.Spacer, Assy interchangeab.	- (01-270)	(S2)
4B7301CL01 (79-22-41)	4	-	.Spacer, Assy	- (01-271)	(S3)(A)
4B7301CL02 (79-22-41)	4	-	.Spacer, Assy	- (01-272)	(S3)(A)
4B7301CL03 (79-22-41)	4	-	.Spacer, Assy	- (01-273)	(S3)(A)
- (79-22-41)	2	-	.Spacer, Assy	4B7115 (01-530)	(B)(S2)
4B7301 (79-22-41)	REF	-	.Spacer, Assy interchangeab.	- (01-530)	(S2)
4B7301CL01 (79-22-41)	2	-	.Spacer, Assy	- (01-531)	(S3)(A)
4B7301CL02 (79-22-41)	2	-	.Spacer, Assy	- (01-532)	(S3)(A)
4B7301CL03 (79-22-41)	2	-	.Spacer, Assy	- (01-533)	(S3)(A)
- (79-22-41)	1	-	.Spacer, Assy	4B7114	(B)(S2)

V2500-ENG-72-0118



SERVICE BULLETIN

(79-22-41)				(01-590)	
4B7302	REF	-	.Spacer, Assy	-	(S2)
(79-22-41)			interchangeab.	(01-590)	
4B7302CL01	1	-	.Spacer, Assy	-	(S3)(A)
(79-22-41)				(01-591)	
4B7302CL02	1	-	.Spacer, Assy	-	(S3)(A)
(79-22-41)				(01-592)	
4B7302CL03	1	-	.Spacer, Assy	-	(S3)(A)
(79-22-41)				(01-593)	

C. Expendables

Part Number	Nomenclature	Qty	Chapter/Fig-Item
AS3209-122	Packing	1	72-60-21-01-280
AS3209-217	Packing	2	79-22-48-03-130
MS9966-10	Sealing Ring	1	79-22-49-02-516
AS43013-123	Sealing Ring	1	79-22-49-07-096
MS9967-218	Sealing Ring	1	79-22-49-07-516
AS3209-157	Packing	2	79-22-41-01-034
AS3209-120	Packing	2	79-22-41-01-850
4P0042	Packing	1	79-22-48-02-100
AS3209-115	Packing	1	79-22-48-02-150
AS3209-120	Packing	1	79-22-48-02-220
AS3209-226	Packing	1	79-11-41-01-760
AS3208-08	Packing	1	72-60-21-01-100
AS3208-08	Packing	1	79-22-43-01-100
AS43003-908	Sealing Ring	1	79-22-45-01-040
44066	Sealing Ring	2	79-22-45-01-030
4P0125	Packing	1	79-22-48-01-100
AS3209-217	Packing	1	79-22-48-01-160

D. Instructions/Disposition Code Statements:

- (A) New Parts are currently available for sale.
- (B) Old part will no longer be available for sale.
- (S1) Old parts and new parts parts coded (S1) are directly interchangeable.
- (S2) New parts parts coded (S2) must replace old parts coded (S2) as a complete set per engine.
- (S3) At the time of the assembly of the pump, the proper spacers classification will be selected.
- (1D) New part number may be obtained by rework and reidentification of the old part number.



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SERVICE BULLETIN

NOTE: The estimated 1992 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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V2500-ENG-72-0118

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Page 7

