



ENGINE - SECURING FEATURES - HP COMPRESSOR CASES - INCREASED BOLT LENGTHS - CATEGORY
CODE 6 - MOD.ENG-72-0223

1. Planning Information

A. Effectivity

- (1) Aircraft: (a) Airbus A319
(b) Airbus A320
- (2) Engines: (a) V2500-A1 Engines prior to Serial No.V0362
(b) V2522-A5 Engines prior to Serial No.V10140
(c) V2524-A5 Engines prior to Serial No.V10140
(d) V2527-A5 Engines prior to Serial No.V10140
(e) V2530-A5 Engines prior to Serial No.V10140

B. Concurrent Requirements

None.

C. Reason

(1) Condition

The threaded part of some of the bolts on A1 and A5 engines is not sufficient. On A1 engines, this affects the bolts that attach two brackets to the flange of the outer cases of the HP compressor. On A1 and A5 engines, this affects the bolts that attach the fuel-cooled oil-cooler (FCOC) to flange FB of the LP compressor case.

(2) Background

The problem has been found on in-service engines.

(3) Objective

The purpose of this Service Bulletin is to maintain reliability.

(4) Substantiation

The changes in this Service Bulletin have been the subject of satisfactory engineering analysis. A satisfactory trial installation on a V2500 mock-up engine has also been done.

(5) Effect of Bulletin on Workshop Procedures:

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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.

D. Description

(1) The changes introduced are:

A1 Model only

- (a) The length of the bolt at hole number 49 on the flange of the HP compressor front and rear outer case has been increased.

A1 & A5 Models

- (b) The length of the bolt at hole number 39 on flange FB of the LP compressor case has been increased.

E. Approval

The part number changes and/or part modification are given in Section 2 and 3 of this Service Bulletin. They obey applicable Federal Aviation Regulations and are FAA-APPROVED for the engine model listed.

F. Compliance

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This Service Bulletin can be done when the sub-assembly (That is modules, accessories, components and build groups) is disassembled sufficiently to get access to all affected parts.

G. Manpower

Estimate of manhours to do this Service Bulletin in full:

Venue	Estimated Manhours
(1) In service	Not applicable
(2) At overhaul	No additional time is necessary to do this Service Bulletin

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NOTE: The parts affected by this Service Bulletin can be accessed at overhaul.

H. Material - Price and Availability

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

I. Tooling - Price and Availability

Special tools are not necessary.

J. Weight and Balance

- (1) Weight change None
- (2) Moment arm No effect
- (3) Datum Engine front mount centreline
(Power Plant Station - PPS 100)

K. Electrical Load Data

This modification has no effect on the aircraft electrical load.

L. References

- (1) Internal Reference No
EC94VR003

M. Other Publications Affected

- (1) Illustrated parts catalog (IPC), Chapter/Section 72-41-00 and 79-21-43.



2. Accomplishment Instructions

A. Rework Instructions

None.

B. Assembly Instructions

- (1) Replace the installed bolts with the new bolts. For the correct procedures refer to the Engine Manual (EM), Chapter/Section 72-00-32, Installation-01 and 72-41-00, Assembly-02.

C. Recording Instructions

- (1) A record of accomplishment is necessary.



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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
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A1 Model only

- (72-41-00)	1		Bolt, bihex hd (0.3125 dia x 0.875)	AS21114 (01-308)	(1D)
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AS21117 (72-41-00)	1	7.32	Bolt, bihex hd (0.3125 dia x 1.062)	AS21117 (01-314)	(2D)
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A1 and A5 Models

4W0166 (79-21-43)	1	5.23	Bolt, machine double hex (0.250 dia x 0.750)	4W0164 (01-390)	(A)(B)(S1)
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NOTE: The unit prices, if shown, are an estimate and they are given for the purpose of planning only. For information about actual prices, refer to the IAE Price Catalog or contact IAE's Spare Parts Sales Department.

C. Instructions disposition code statements:

- (A) New part is currently available.
- (B) Old part may be used up on other applications.
- (S1) Old and new parts are not interchangeable.
- (1D) Quantity reduced from 50 off to 49 off.
- (2D) Quantity increased from 4 off to 5 off.

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