



ENGINE - FUEL AND CONTROL - ENGINE - DEDICATED ALTERNATOR DRIVE GEAR ASSEMBLY -
INTRODUCTION OF REVISED STANDARD OF ATTACHING BOLTS FOR THE ENGINE DEDICATED ALTERNATOR
(EDA) - CATEGORY CODE 6 - MOD.ENG-73-0093

Printed in Great Britain

1. Planning Information

A. Effectivity

- (1) Aircraft: (a) Airbus A319
(b) Airbus A320
(c) Airbus A321
(d) McDonnell Douglas MD-90
- (2) Engines: (a) V2500-A1 Engines prior to Serial No.V0362
(b) V2522-A5 Engines prior to Serial No.V10213
(c) V2524-A5 Engines prior to Serial No.V10213
(d) V2527-A5 Engines prior to Serial No.V10213
(e) V2530-A5 Engines prior to Serial No.V10213
(f) V2533-A5 Engines prior to Serial No.V10213
(g) V2525-D5 Engines prior to Serial No.V20112
(h) V2528-D5 Engines prior to Serial No.V20112

B. Concurrent Requirements

None.

C. Reason

(1) Problem

The latest standard of attaching bolts for the Engine Dedicated Alternator (EDA) stator unit cannot install all of the standards of EDA in service.

(2) Evidence

(Refer to C. (1)).

(3) Substantiation

A satisfactory engineering analysis has been done on the changes introduced by this Service Bulletin.

(4) Objective

The purpose of this Service Bulletin is to make installation easier.

(5) Effect of Bulletin on:

V2500-ENG-73-0093



(a) Operation

Not affected.

(b) Maintenance

Affected.

(c) Overhaul

Not affected.

(d) Repair Schemes

Not affected.

(e) Interchangeability

Not affected.

(f) Fits and Clearances

Not affected.

D. Description

(1) The changes introduced by this Service Bulletin are as follows:

(a) The attaching bolts are revised, the length of the thread has increased.

(b) A new PMA drive gear-assembly has been introduced that embodies the change at (a).

(2) Old part can be reworked and re-identified with part number. (Refer to 3. (A)).

E. Compliance

Category Code 6

Accomplish when the engine is disassembled sufficiently to get access to all the affected parts.

F. Approval

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

V2500-ENG-73-0093



SERVICE BULLETIN

G. Manpower

Estimate of manhours necessary to embody this Service Bulletin in full:

(1) In Service:

- | | |
|-------------------------------------|------------|
| (a) To get access | 16 Minutes |
| (b) To embody | 32 Minutes |
| (c) To return to serviceable status | 20 Minutes |

TOTAL 1 Hour 08 Minutes

(2) At Overhaul:

- | | |
|---------------|------------|
| (a) To embody | 32 Minutes |
|---------------|------------|

NOTE: It is possible to get access to the parts affected by this Service Bulletin at overhaul.

H. Material – Price and Availability

- (1) A modification kit is not necessary.
- (2) Refer to 2. Material Information for prices and availability of future spares.

I. Tooling – Price and Availability

Special tools are not necessary.

J. Weight and Balance

(1) Weight change

None.

(2) Moment arm

Not effected.

(3) Datum

Engine front mount centreline (Power Plant Station (PPS)100).

K. Electrical Load Data

The aircraft electrical load is not affected by this Service Bulletin.

V2500–ENG–73–0093



L. References

(1) Internal Reference No.

EC96VR005

EC96VR005B

(2) Other References

A1/A5/D5 Engine Manual (EM), Chapter/Section 72-00-60, Removal and # Installation.

A319/A320/A321 Aircraft Maintenance Manual (AMM), Chapter/Section 73-22-38, Removal/Installation.

MD-90 Aircraft Maintenance Manual (AMM), Chapter/Section 73-21-38, Removal/Installation

Standard Practices Manual (SPM), TASK 70-09-00-400-501, SUBTASK 70-09-00-400-001.

M. Other Publications Affected

(1) Illustrated Parts Catalogue (IPC), Chapter/Sections 72-60-33 and 73-22-38.



SERVICE BULLETIN

2. Material Information

A. Kits necessary for this Service Bulletin:

None.

B. Parts affected by this Service Bulletin:

NEW PART NO. (ATA NO.)	QTY	EST'D UNIT PRICE (\$)	KEYWORD	OLD PART NO. (IPC NO.)	INSTRUCTIONS DISPOSITION

A1 and A5 Models					
4A0322 (72-60-33)	1		Gear, assy drive PMA	4A0295 (01-001)	(B)(C)(1D)
D5 Models					
4A2176 (72-60-33)	1		Gear, assy drive PMA	4A2175 (01-001)	(B)(C)(1D)
All Models					
4W0002 (72-60-33)	3	8.42	.Nut, self locking, double - hexagonal head (.250 dia)	- (01-430)	(A)(F)
BLT4448 (72-60-33)	3	16.30	.Bolt	- (01-440)	(B)(G)(S1)
- (73-22-38)	3		.Nut, self locking, double hexagonal head (.250 dia)	4W0002 (01-102)	(H)
- (73-22-38)	3		.Bolt, close tolerance D-head	AS32216 (01-106)	(C)(E)(J)(S1)

NOTE: The unit prices, if shown, are an estimate and they are given for the purposes 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 Codes

- (1) (A) Part will continue to be available.
- (2) (B) New part is available.
- (3) (C) Old part will be discontinued.
- (4) (E) Redundant part.

V2500-ENG-73-0093



- (5) (F) Was previously ATA Chapter 73-22-38 UIN 01-102.
- (6) (G) Was previously ATA Chapter 73-22-38 UIN 01-106.
- (7) (H) Now located at ATA Chapter 72-60-33 UIN 01-430.
- (8) (J) Now located at ATA Chapter 72-60-33 UIN 01-440.
- (9) (S1) New parts coded (S1) can replace old parts coded (S1), but old part cannot replace new part.
- (10)(1D) Old part can be reworked and re-identified with new part number.

**SERVICE BULLETIN****3. Accomplishment Instructions****A. Rework Instructions**

(1) Rework the part that follows:

4A0295, Gear, assembly drive PMA, 72-60-33, Fig/Item 01-001 (A1 and A5 Only).

Procedure

Supplemental Information

(a) Install the bolts BLT4448

Refer to para 3.B. Assembly Instructions.

(b) Cancel the old part number and identify with the new part number.

Use vibro engraving equipment. Refer to the Standard Practices Manual (SPM), TASK 70-09-00-400-501, SUBTASK 70-09-00-400-001.

Old Part No.

New Part No.

4A0295

4A0322

(2) Rework the part that follows:

4A2175, Gear, assembly drive PMA, 72-60-33, Fig/Item 01-001 (D5 Only).

Procedure

Supplemental Information

(a) Install the bolts BLT4448

Refer to para 3.B. Assembly Instructions.

(b) Cancel the old part number and identify with the new part number.

Use vibro engraving equipment. Refer to the Standard Practices Manual (SPM), TASK 70-09-00-400-501, SUBTASK 70-09-00-400-001.

Old Part No.

New Part No.

4A2175

4A2176

B. Assembly Instructions

(1) Remove and discard the bolts AS32216.

(2) Install the bolts BLT4448.

(a) For the correct removal/installation procedures refer to one of the manuals that follow:

V2500-ENG-73-0093



- (i) A319/A320/A321 Aircraft Maintenance Manual (AMM),
Chapter/Section 73-22-38, Removal/Installation.

or

- (ii) MD-90 Aircraft Maintenance Manual (AMM), Chapter/Section
73-21-38, Removal/Installation.

C. Recording Instructions

A record of accomplishment is necessary.

Printed in Great Britain

V2500-ENG-73-0093