

International Aero Engines
SERVICE BULLETIN

**POWER PLANT - ELECTRICAL HARNESS - EEC HARNESS - FAN - INTRODUCTION OF EEC FAN
HARNESS ASSEMBLY WITH REVISED EDA CONNECTORS**

MODEL APPLICATION

V2500-A1

BULLETIN INDEX LOCATOR

71-51-00

Compliance Category Code

7

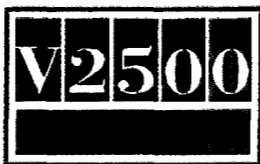
Internal Reference No.

EC98VR018

June 2/99

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POWER PLANT - ELECTRICAL HARNESS - EEC HARNESS - FAN - INTRODUCTION OF EEC FAN HARNESS ASSEMBLY WITH REVISED EDA CONNECTORS

1. Planning Information

A. Effectivity

(1) Aircraft:

(a) Airbus A320.

(2) Engines:

(a) V2500-A1 Engines prior to Serial No. V0362

B. Concurrent Requirements

This Service Bulletin must only be installed to engines that have IAE V2500 Service Bulletin ENG 73-0138 embodied. (Refer to 1. L).

C. Reason

(1) Problem

Burning of the pins of the electrical connectors for the Engine Dedicated Alternator (EDA) stator can occur.

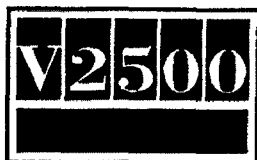
The problem is caused by the design of the interface connectors for Loom-A and Loom-B, which cannot resist the vibrations that occur at this location.

(2) Evidence

The problem has been found on engines in service.

(3) Substantiation

A satisfactory engineering analysis and successful incorporation of a similar modification on V2500-D5 engines have been done on the changes introduced by this Service Bulletin.



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(4) Objective

The purpose of this Service bulletin is to maintain reliability.

(5) Effect of Bulletin on:

(a) Operation

Not affected.

(b) Maintenance

Affected.

(c) Overhaul

Affected.

(d) Repair Schemes

Not affected.

(e) Interchangeability

Affected. (Refer to 2. C.).

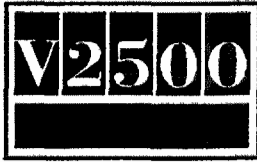
(f) Fits and Clearances

Not affected.

D. Description

To prevent pin burning, this Service Bulletin introduces a revised EEC fan harness assembly with revised connectors at the EDA interface, the changes are introduced as follows:

- (a) Revised connectors are introduced at position 4005EV-A and 4005EV-B. To prevent backing-off, the connectors have a finer locking mechanism.**
- (b) The quantity of contact sockets is increased from 10 to 12.**
- (c) The quantity of blanking plugs at connector 4005EV-A is increased from 4 to 6.**
- (d) The quantity of blanking plugs at connector 4005EV-B is increased from 2 to 4.**
- (e) Revised backshells are introduced to match the revised connectors.**



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E. Compliance

Category Code 7.

Accomplished when there are no existing parts remaining.

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.

G. Manpower

Estimate of man-hours necessary to embody this Service Bulletin in full:

- | | |
|-----------------|--|
| (1) In Service | Not applicable. |
| (2) At Overhaul | No additional time is necessary to embody this Service Bulletin. |

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

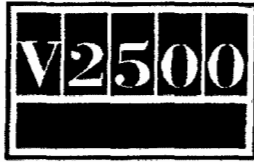
None.

- (2) Moment Arm

Not effected.

- (3) Datum

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



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K. Electrical Load Data

This Service Bulletin does not affect the aircraft electrical load.

L. References

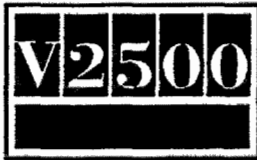
- (1) This Service Bulletin must be installed at the same time as the IAE V2500 Service Bulletin that follows:

ENG 73-0138 ENGINE FUEL AND CONTROL - DEDICATED ALTERNATOR
(STATOR) - INTRODUCTION OF REVISED RECEPTACLES.

- (2) A5 Engine Manual (EM), Chapter/Section 72-00-32, Removal-02 and Installation-04 CONFIG-1.
(3) This Service Bulletin is the subject of AIRBUS Aircraft Modification Number 28065.

M. Other Publications Affected

- R (1) Component Maintenance Manual Electrical Harnesses and Cables (CMM-V2500-EHC-11A), Chapter/Section 71-51-41 Cleaning and Inspection/Check.
(2) A5 Engine Manual (EM), Chapter/Section 72-00-32 Removal-02 and Installation-04 CONFIG-1.
(3) Illustrated Parts Catalogue (IPC), Chapter/Section 71-51-41.



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2. Material Information

A. Kits necessary for this Service Bulletin:

None.

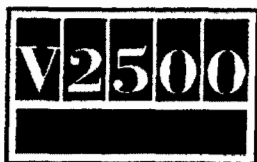
B. Parts affected by this Service Bulletin:

NEW NUMBER (ATA No.)	QTY	EST'D UNIT PRICE (\$)	PART TITLE	OLD PART No. (IPC No.)	INSTR DISP
6A7451 (71-51-41)	1	46480.00	..Harness assy - EEC fan	6A5651 (01-005)	(S1)
ESC65E12 (71-51-41)	1	143.00	..Clamp, backshell (VU1653)	92H1-13-8JCCAD (03-490)	(A) (B)
- (71-51-41)	1		..Clamp, backshell assy (VU0419)	388HS104E13 (03-490)	(B)
- (71-51-41)	1		..Clamp, backshell assy (VU2824)	272E13 (03-490)	(B)
ESC65E12 (71-51-41)	1		..Clamp, backshell (VU1653)	92H1-13-8JCCAD (03-510)	(A) (B)
- (71-51-41)	1		..Clamp, backshell assy (VU0419)	388HS104E13 (03-510)	(B)
- (71-51-41)	1		..Clamp, backshell assy (VU2824)	272E13 (03-510)	(B)
ESC10SE61212SN0 1 (71-51-41)	1	382.00	..Connector (VU1653)	T3K121398SN1259 (04-490)	(A) (B)
- (71-51-41)	1		..Connector assy (V14283)	MT938T13K98S901 (04-490)	(B)
- (71-51-41)	10		..Contact socket (V14283)	5100-101-0120 (04-495)	(4D)

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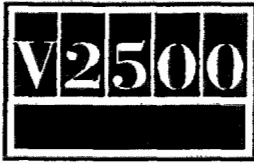
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NEW NUMBER (ATA No.)	QTY	EST'D UNIT PRICE (\$)	PART TITLE	OLD PART No. (IPC No.)	INSTR DISP
ESC30S20BC (71-51-41)	12	2.33	..Contact, socket (VU1653)	5A9290 (04-495)	(A) (C) (1D) (4D)
ESC36-20 (71-51-41)	6		..Plug, sealing (VU1653)	MS27488-20 (04-509)	(A) (3D) (4D)
ESC10SE61212S60 (71-51-41)	1	149.00	..Connector (VU1653)	T3K121398SA1259 (04-510)	(A) (B)
(71-51-41)	1		..Connector assy ..(V14283)	1017689 (04-510)	(B)
ESC30S20BC (71-51-41)	12		..Contact, socket (VU1653)	5A9290 (04-515)	(A) (C) (1D) (4D)
- (71-51-41)	10		.. Contact, socket (V14283)	5100-101-0120 (04-515)	(4D)
ESC36-20 (71-51-41)	4		..Plug, sealing (VU1653)	MS27488-20 (04-509)	(A) (2D) (4D)

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 Catalogue or contact IAE's spare parts sales department.

C. Instruction Disposition Codes:

- (A) New part is available.
- (B) Old part becomes redundant after this Service Bulletin has been embodied.
- (C) Indentation level has changed from 3 dot (...) to 2 dot (..).
- (S1) Old and new parts are not interchangeable.
- (1D) Quantity increased from 10 to 12.
- (2D) Quantity increased from 2 to 4.
- (3D) Quantity increased from 4 to 6..
- (4D) Old part can be used at other locations



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3. Accomplishment Instructions

A. Rework Instructions

None

B. Assembly Instructions

For the correct removal/installation procedures refer to the:

- (1) A5 Engine Manual (EM), Chapter/Section 72-00-32, Removal-02 and Installation-04 CONFIG-1.**

C. Recording Instructions

A record of accomplishment is necessary.