INTERNATIONAL AERO ENGINES AG.

Apr.17/92

Printed in Great Britain

Subject: Transmittal of Revision 2 to Service Bulletin No. V2500-ENG-71-0051

Service Bulletin Revision History:

Event	Date
Basic Issue	Nov.17/89
Revision 1	Feb.9/90
Revision 2	Apr.17/92

Reason for Issuance of Revision:

To re-issue Bulletin in a multi-part format.

Effect on Past Compliance:

None

List of Efective Pages:

	Bulletin Page No.	Rev. No.	Effective Date
R	1 to 12	2	Apr.17/92

V2500 Propulsion System — Engine

SERVICE BULLETIN

INTERNATIONAL AERO ENGINES AG.

Printed in Great Britain

ENGINE - INTRODUCTION OF CHANGES TO ENGINE DRESSING CLEARANCES

MODEL APPLICATION

V2500-A1

BULLETIN INDEX LOCATOR

71-00-00

Compliance Category Code

4

Internal Reference No.

EC89VR007 EC89VR013
EC89VR016 EC89VR021
EC89VR023 EC89VR024
EC89VR025

ENGINE - INTRODUCTION OF CHANGES TO ENGINE DRESSING CLEARANCES

1. Planning Information

A. Effectivity

R (1) Part 1:

R (a) Aircraft: Airbus A320

R (b) Engine: V2500 - A1 Engines prior to Serial No.V0057

R (2) Part 2:

R (a) Aircraft : Airbus A320

R (b) Engine : V2500 - A1 Engines prior to Serial No.V0086

R (3) Part 3:

R (a) Aircraft : Airbus A320

R (b) Engine : V2500 - A1 Engines prior to Serial No.V0076 except V0068,
R V0070, V0072 and V0074

B. Reason

(1) Condition

Insufficient clearance can exist between electrical harnesses, pipes and other parts of the power plant.

(2) Background

Minor problems have been reported during engine development testing.

(a) Difficulty in achieving the specified clearance between dressings.

(b) Incorrect orientation of clips at clipping positions CP1088, CP0831 and CP1073.

(c) Insufficient clearance between harness and adjacent hardware at clipping points CP0249, CP0250, CP0251, CP0252, CP0257, CP0862 and CP5690.

(3) Objective

To improve the clearance between engine dressing hardware.

(4) Substantiation

The changes introduced by this modification have been shown to satisfactorily achieve the necessary clearances.

(5) Effects of Bulletin on Workshop Procedures:

Removal/Installation	Affected (See Supplemental Information)
Disassembly/Assembly	Not affected
Cleaning	Not affected
Inspection/Check	Not affected
Repair	Not affected
Testing	Not affected

(6) Supplemental Information

Clearances between the electrical harness, pipes and other parts of the power plant have been re-defined.

C. Description

R (1) Part 1

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

(i) The minimum clearance between the electrical harness, tubes and other hardware should be 0.100 inches (2,54 mm).

R (ii) Clip CP0831 is transferred from the outboard to the inboard side of the bracket.

R (iii) Clip CP5690 is rotated through 180 degrees and is now facing inboard.

R (2) Part 2

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

R (i) Clip CP0257 rearward limit of a loop in the harness between two clips is defined.

R (ii) Clip CP1088 has been removed and secured to a different tube.

R (3) Part 3

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

R (i) Clip CP1073 is transferred from the outboard to the inboard side of the bracket.

R (ii) The bracket to which CP0862 is attached is re-positioned.

R (iii) The positions of the individual harness within the clips are specified and the clips CP0249, CP0250, CP0251 and CP0252 are slightly reshaped.

D. Approval

The changes specified in Section 2 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 Code 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 manhours to incorporate the full intent of this Bulletin:

Venue	Estimated Manhours
R (1) In Service	TOTAL 1 hour 11 minutes
(2) At Overhaul (Note: The parts affected by this Service Bulletin are accessible at Overhaul).	
(a) To accomplish Assembly instructions ..	Refer to individual section of Engine Manual

R Remarks : No additional time required to maintain the new
R configuration

G. Material - Price and Availability

(1) Modification kit not required

(2) No new parts are introduced

(3) Price and availability not affected

H. Tooling - Price and Availability

Special tools are not required

I. Weight and Balance

(1)	Weight change	None
(2)	Moment arm	No effect
(3)	Datum	Power Plant Station (PPS) 100

J. Electrical Load Data

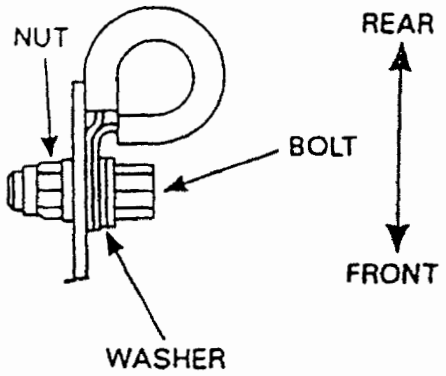
This Service Bulletin has no effect on the aircraft electrical load.

K. References

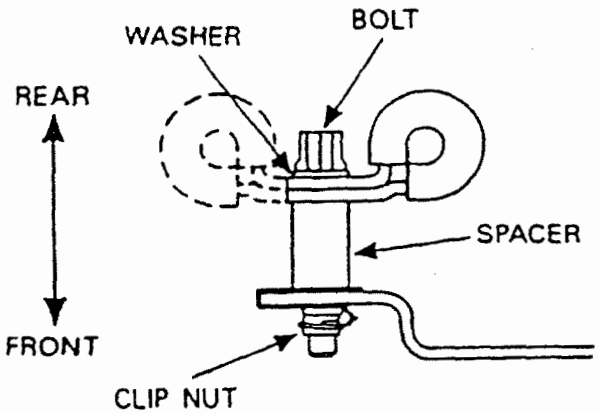
(1) V2500 Engine Manual, TASK 72-00-32-420-004 and 72-00-40-420-006.

L. Other Publications Affected

(1) None

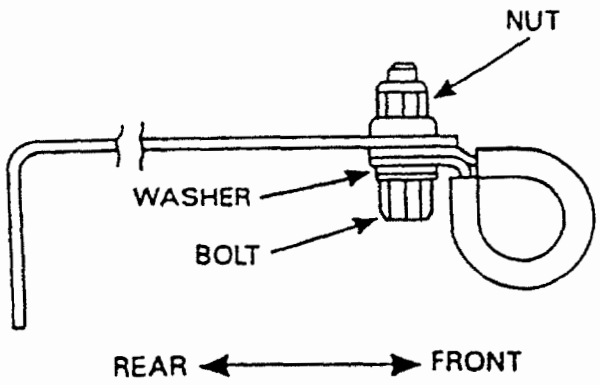


CLIP POSITION 0831



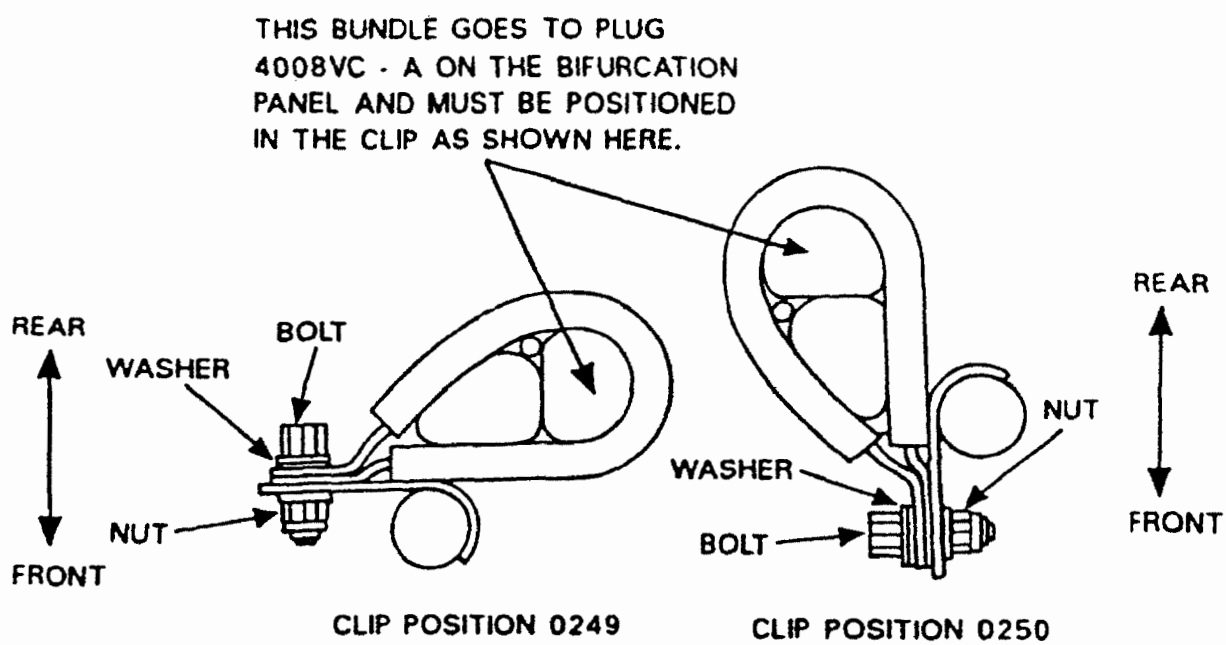
CLIP POSITION 5690

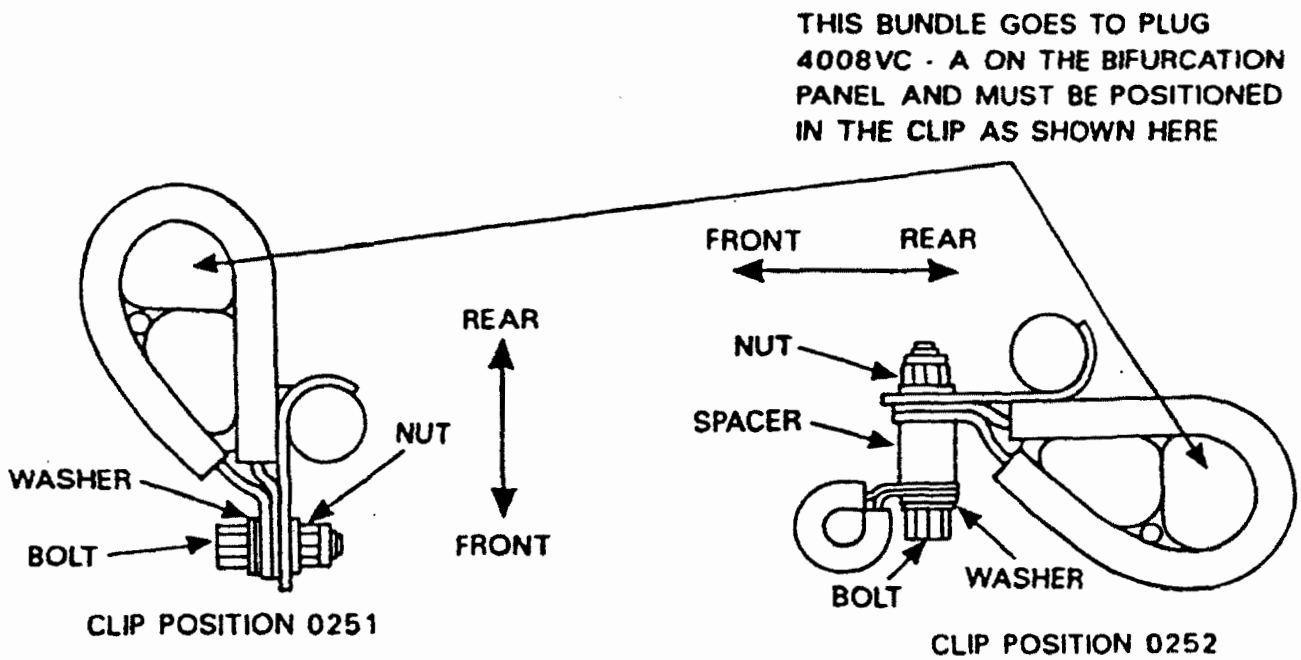
Clipping arrangements (Part 1)
Figure 1



CLIP POSITION 1073

Clipping arrangements (Part 3)
Figure 2





R Clipping arrangements (Part 3)
R Figure 3

2. Accomplishment Instructions

A. Rework Instructions

Not applicable

B. Assembly Instructions

R (1) Part 1

R (a) Make sure that there is a minimum clearance of 0.100in. (2,5 mm) at the positions that follow. Adjust clips and harness as necessary to get clearances and torque nuts/bolts to 36 to 45 lbf.in. (4 to 5 Nm).

R (i) Between the harness and the flange FC adjacent to CP0820, (Refer to Engine Manual, TASK 72-00-32-420-004).

R (ii) Between the flange FD and the length of harness between CP1075 and CP0897, (Refer to Engine Manual, TASK 72-00-32-420-004).

R (iii) Between the harness and the tubes adjacent to CP0789 and CP0790, (Refer to Engine Manual, TASK 72-00-60-420-002).

R (iv) Between the harness adjacent to CP0753 and tubes 114 and 170, (Refer to Engine Manual, TASK 72-00-32-420-004).

R (v) Between the harness, the raceway and the tubes adjacent to CP0539 and CP1043 to 1048 inclusive, (Refer to Engine Manual, TASK 72-00-32-420-004 and TASK 72-00-60-420-002).

R (b) CP0831, (Refer to figure 1 and Engine Manual, TASK 72-00-32-420-004)

R (i) Reposition the clip from outboard to inboard side of the bracket.

R (ii) Torque the nut/bolt to 36 to 45 lbf.in. (4 to 5 Nm).

R (c) CP5690, (Refer to figure 1 and Engine Manual, TASK 72-00-40-420-006)

R (i) Reposition the clip on the harness and refit to the bracket 180 degrees from old position.

R (ii) Torque bolt to 36 to 45 lbf.in. (4 to 5 Nm).

R (2) Part 2

R (a) CP0257, (Refer to Engine Manual, TASK 72-00-32-420-004)

R (i) Make sure that there is sufficient clearance between the harness loop adajcent to CP0257 and the 'C' duct during opening and closing of the duct.

R (ii) If necessary, slacken the clip and adjust the harness loop to ensure clearance.

R (iii) Torque the nut/bolt to 36 to 45 lbf./in. (4 to 5 Nm).

R (b) CP1088, (Refer to Engine Manual, TASK 72-00-32-420-004)

R (i) Disconnect the clip from tube No.161 (75-32-49, 10-500).

R (ii) Fit the clip to tube No.156 (75-32-49, 12-100).

R (iii) Torque the nut/bolt to 36 to 45 lbf./in. (4 to 5 Nm).

R (3). Part 3

R (a) CP1073, (Refer to figure 2 and Engine Manual, TASK 72-00-32-420-003)

R (i) Reposition the clip on the tube.

R (ii) Repcsition the clip from outboard to inboard side of the bracket.

R (iii) Torque the nut/bolt to 36 to 45 lbf./in. (4 to 5 Nm).

R (b) CP0249, CP0250 and CP0251, (Refer to figure 3 and Engine Manual TASK 72-00-32-420-004). CP0252, (Refer to figure 3 and Engine Manual TASK 72-00-60-420-003).

R (i) Disconnect clips.

R (ii) Re-shape the clips and position the harness bundles side by side,
R as shown in figure 3.

R (iii) Refit the clips and torque the nuts/bolts to 36 to 45 lbf./in. (4 to 5 Nm).

R (c) CP0862, (Refer to Engine Manual, TASK 72-00-32-420-001)

R (i) Remove the two bolts and nuts securing the bracket (71-51-50, 01-960) to flange A1.

R (ii) Position the bracket on the other side of flange A1.

R (iii) Refit the two bolts and nuts, torque to 85 to 105 lbf.in. (10 to 12 Nm).

NOTE: The configuration of the clips at CP0862 is as existing, (Refer to Engine Manual, TASK 72-00-32-420-004).

C. Record Instructions

(1) A record of accomplishment is necessary.

3. Material Information

New Part No. (ATA No.)	Qty	Est'd Unit Price ($)	Keyword	Old Part No. (IPC No.)	Instructions Disposition

A. Kits associated with this Service Bulletin:

None

B. Parts affected by this Service Bulletin:

None

C. Instruction/Disposition Code Statements:

Not applicable - no new parts introduced