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DATE ~~R~~ Mar. 6/03**V2500-A5 PROPULSION SYSTEMS SERVICE BULLETIN**

Printed in Great Britain

This document transmits Revision 1 to Service Bulletin EV2500-73-0128 and the Initial Issue of the Supplement

Document History

Service Bulletin Revision Status
 Initial Issue Oct.2/98

Supplement Revision Status

Bulletin Revision 1

Remove
 All pages of the
 Service Bulletin

Incorporate
 Pages 1 to 7 of the
 Service Bulletin

Reason for change
 1.D. Description revised.
 SB formatted to latest
 standards.

Supplement Initial Issue

Remove

Incorporate
 Page 1

Reason for change
 1.D. Description revised.
 SB formatted to latest
 standards.

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 Transmittal - Page 1 of 2

CHECK THAT ALL PREVIOUS TRANSMITTALS HAVE BEEN INCORPORATED

If any have not been received please advise Publication Services, Rolls-Royce plc, Derby, England

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LIST OF EFFECTIVE PAGES

The effective pages to this Service Bulletin following incorporation of Revision 1 to the Bulletin and the Initial Issue of the Supplement are as follows:

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R 2	1	Mar.6/03
R 3	1	Mar.6/03
R 4	1	Mar.6/03
R 5	1	Mar.6/03
R 6	1	Mar.6/03
R 7	1	Mar.6/03

Supplement		
1		Mar.6/03

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ENGINE FUEL AND CONTROL – FUEL SYSTEM AIR TUBES – INTRODUCTION OF HEAT RESISTANT CLIPS FOR THE PB SENSE-LINE TUBE ASSEMBLY AND THE DELETION OF A CLIP AT CP6094

1. Planning Information

A. Effectivity

(1) Airbus A319

V2522-A5, V2524-A5, V2527M-A5 Engines prior to Serial No.V10500.

(2) Airbus A320

V2527-A5, V2527E-A5 Engines prior to Serial No.V10500.

(3) Airbus A321

V2530-A5, V2533-A5 Engines prior to Serial No.V10500.

B. Concurrent Requirements

None.

C. Reason

(1) Problem

Heat damage has been found on the cushion clips that locate the bottom section of a tube assembly for the Pb air sense-line.

Also, insufficient clearance can exist between the cushion on a clip at CP6094 limb connector NP4009VC and the adjacent EEc core harness.

(2) Evidence

The heat damaged clips were found after engine pass-off test and the insufficient clearance was found during V2500 new-production engine build.

(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 maintain engine reliability.



(5) Effect of Bulletin on:

(a) Operation

Not affected.

(b) Maintenance

Not affected.

(c) Overhaul

Affected.

(d) Repair Schemes

Not affected.

(e) Interchangeability

Not affected.

(f) Fits and Clearances

Not affected.

D. Description

(1) The changes introduced are as follows:

R

- (a) The material for the cushions of the clips at clip points CP5647, CP5648 (and CP6095, post SB 72-0189 only) has been changed from rubber to heat resistant fibreglass.

Also, the opportunity has been taken to improve the bolt sizes where applicable.

R

(b) Post SB 72-0189 only:

R

To increase the clearance, the clip (AS62511, Figure 1) that supports the EEC core-harness limb to the bifurcation panel connector NM4008VC at clip point CP6094 has been deleted.

E. Compliance

Category Code 7

Accomplish when the supply of superseded parts has been depleted.



F. Approval

The part number changes and/or part modifications described in sections 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(s) listed.

G. Manpower

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

(1) In service:

Not applicable.

(2) At overhaul:

Not affected.

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

H. Material Price and Availability

Modification kit not required.

For prices and availability of future spares see 2. Material Information.

I. Tooling Price and Availability

Special tools are not required.

J. Weight and Balance

(1) Weight Change

None.

(2) Moment Arm

Not affected.

(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.



L. References

- R (1) Service Bulletin V2500-ENG-72-0189
- R Engine - Core engine tubes - Tube assemblies coupled to bifurcation panel,
R re-run to clear cowl door hold open rods.
- (2) A5 Engine Manual, 72-00-40, Removal-02 Config-2 and Removal-04,
Installation-07 and Installation-09 Config-2.
- R (3) Engineering Change number - EC97VR023.
- R (4) ATA Locator - 73-22-00.

M. Other Publications Affected

- (1) Illustrated Parts Catalogue (IPC), Chapter/Section 71-52-43 and 73-22-49,
will be revised.
- (2) A5 Engine Manual, 72-00-40, Removal-02 Config-2 and Removal-04,
Installation-07 and Installation-09 Config-2.

N. Interchangeability of Parts

Affected (see 2. Material Information).



2. Material Information

A. Kits associated with this Bulletin:

None.

B. Parts to be reworked:

None.

C. Parts affected by this Service Bulletin:

All Engines

71-52-43

	FIG ITEM NO.	NEW PART NO.	QTY	PART TITLE	MAT	OLD PART NO.	INSTR DISP
R	01518	4W0102	1	Bolt, machine double hex	-	4W0103	(A)(S1)
R				(.190 dia x .438)(CP6094)			(1D)
	01521	-	1	Clamp, loop, cushion (.688	-	AS62511	(B)(1D)
				dia)(CP6094)			

73-22-49

	FIG ITEM NO.	NEW PART NO.	QTY	PART TITLE	MAT	OLD PART NO.	INSTR DISP
R	05525	4W0103	1	Bolt, machine double hex	-	4W0102	(A)(S1)
R				(.190 dia x .500)(CP6095)			(1D)
R	05528	TA025022	1	Clamp, loop, cushion (6,35	-	AS62404	(A)(S2)
R		-04		mm. (0.250))(CP6095)			(1D)
R	05560	TA025022	1	Clamp, loop, cushion (6,35	-	AS62404	(A)(S2)
R		-04		mm. (0.250))(CP5647)			(1D)
R	05568	TA025022	1	Clamp, loop, cushion (6,35	-	AS62404	(A)(S2)
R		-04		mm. (0.250))(CP5648)			(1D)

D. Instruction disposition codes:

(A) New part will be made available from September 1998.

(B) Redundant part.

(S1) New part can replace old part, but old part cannot replace new part.

(S2) New and old parts are freely and fully interchangeable.

(1D) Old parts can be used on other applications.



3. Accomplishment Instructions

A. Rework Instructions

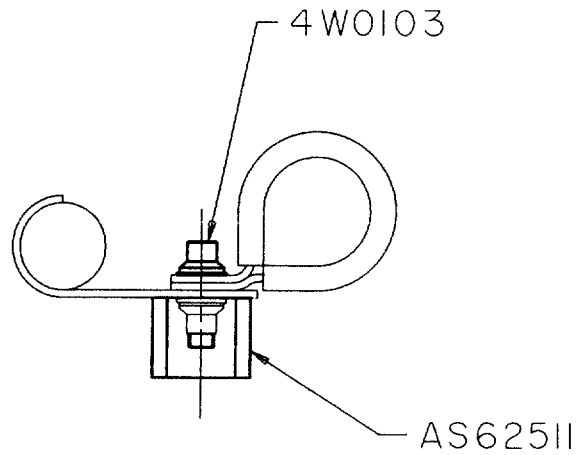
None.

B. Assembly Instructions

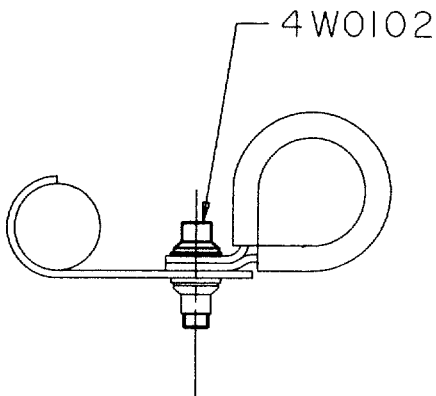
For the correct assembly procedures refer to A5 Engine Manual, 72-00-40, Removal-02 Config-2 and Removal-04/Installation-07 and Installation-09 Config-2.

C. Recording Instructions

A record of accomplishment is necessary.



CLIP POINT 6094
BEFORE ALTERATION



CLIP POINT 6094
AFTER ALTERATION

Clip Point CP6094 Before and After Alteration
Figure 1



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CLIPS FOR THE PB SENSE-LINE TUBE ASSEMBLY AND THE DELETION OF A CLIP AT CP6094

R SUPPLEMENT – PRICES AND AVAILABILITY

R The prices if shown are for estimating purposes only and as such are given in good
R faith, without commercial liability for advanced planning purposes only. Refer to
R IAE Spares and/or current price catalogue for current prices.

R 1. Modification Kit

R Not applicable. Parts supplied as single line items

R 2. New Production or Rework Parts

R			Unit Price
R	Part No.	Desc.	US Dollars
R	4W0102	Bolt	Price supplied on request
R	4W0103	Bolt	Price supplied on request
R	TA025022-04	Clamp, loop	18.80

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