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DATE ~~R~~ Apr.10/02**V2500-A5/D5 PROPULSION SYSTEM SERVICE BULLETIN**

Printed in Great Britain

This document transmits Revision 1 to Service Bulletin EV2500-73-0136

Document History

Service Bulletin Revision Status
 Initial Issue Apr.23/99

Supplement Revision Status

Bulletin Revision 1

Remove
 All pages of the
 Service Bulletin

Incorporate
 Pages 1 to 6 of the
 Service Bulletin

Reason for change
 To correctly reference
 Woodward SB V2500-73-0136

V2500-ENG-73-0136
 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 are as follows:

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ENGINE FUEL AND CONTROL – FUEL METERING UNIT – INTRODUCTION OF A WOODWARD FUEL
METERING UNIT WITH REVISED SERVO VALVE COVER

1. Planning Information

A. Effectivity

(1) Airbus A319

V2522-A5, V2524-A5, V2527M-A5 Engines prior to Serial No. V10550

(2) Airbus A320

V2527-A5, V2527E-A5 Engines prior to Serial No. V10550

(3) Airbus A321

V2530-A5, V2533-A5 Engines prior to Serial No. V10550

(4) Boeing – Longbeach Division MD-90

V2525-D5, V2528-D5 Engines prior to Serial No. V20275

(5) ATA Locator 73-22-00

B. Concurrent Requirements

None.

C. Reason

(1) Problem

During the assembly of the Woodward Governor Company Fuel Metering Unit (FMU), the wires of the Shut-Off Valve (SOV) and Over-Speed Valve (OSV) torque motor can become trapped. In extreme conditions, this can result in an in-service overcurrent fault.

The problem is caused by the SOV and OSV wires being trapped between a torque motor screw and the servo valve covers.

(2) Background

Refer to (1) Problem.

(3) Substantiation

A satisfactory engineering analysis, successful vendor tests and a trial assembly have been carried out on the changes introduced by this Service Bulletin.



(4) Objective

The purpose of this Service Bulletin is to maintain unit reliability.

(5) Effect of Bulletin on:

(a) Operation

Not affected.

(b) Maintenance

Not affected.

(c) Overhaul

Not affected.

(d) Repair Schemes

Not affected.

(e) Interchangeability

Not affected.

(f) Fits and Clearances

Not affected.

D. Description

R

(1) This Service Bulletin includes the installation of a revised FMU which incorporates Woodward Service Bulletin V2500-73-0136.

(2) The changes introduced are as follows:

(a) The cover of the SOV and OSV servovalve has changed. The angle of the leadwire entry has changed from being parallel to the axis of the cover to 30 degrees to the axis of the cover.

(3) Units incorporating this Service Bulletin (Modification) will be identified by endorsement of the modification plate with 73-0136.

E. Compliance

Category Code 7

Accomplish when 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 models listed.

G. Manpower

In service

Not applicable.

At overhaul

Not affected.

NOTE: The parts affected by this Service Bulletin are accessible at overhaul.

H. Material Price and Availability

A modification kit is not necessary.

I. Tooling Price and Availability

Special tools are not necessary.

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) Woodward Service Bulletin V2500-73-0136.
- (2) A5 Engine Manual (EM), Chapter/Section 72-00-60, Removal-06, CONFIG-2 and Installation-02.



- (3) D5 Engine Manual (EM), Chapter/Section 72-00-60, Removal-06 and Installation-02.
- (4) A319/A320/A321 Aircraft Maintenance Manual (AMM), Chapter/Section 73-21-52, Removal/Installation.
- (5) MD-90 Aircraft Maintenance Manual (AMM), Chapter/Section 73-21-52, Removal/Installation.
- (6) This SB is the subject of Airbus Aircraft Modification Number 21820.
- (7) Internal reference number 98VI002.

M. Other Publications Affected

- (1) None.



2. Material Information

A. Kits necessary for this Service Bulletin:

None.

B. Parts affected by this Service Bulletin:

V2522-A5, V2524-A5 Models

73-22-52

FIG ITEM NO.	NEW PART NO.	QTY	PART TITLE	MAT	OLD PART NO.	INSTR DISP
01100	8061-627	1	.Meter, fuel (V66503)	-	8061-627	(A)(B)(S1)

V2527-A5, V2527E-A5, V2530-A5, V2533-A5, V2525-D5 and V2528-D5 Models

73-22-52

FIG ITEM NO.	NEW PART NO.	QTY	PART TITLE	MAT	OLD PART NO.	INSTR DISP
01100	8061-632	1	.Meter, fuel (V66503)	-	8061-632	(A)(B)(S1)

V2525-D5 and V2528-D5 Models

73-22-52

FIG ITEM NO.	NEW PART NO.	QTY	PART TITLE	MAT	OLD PART NO.	INSTR DISP
01100	8061-626	1	.Meter, fuel (V66503)	-	8061-626	(A)(B)(S1)

NOTE: The unit prices, if shown, are an estimate and are given for planning purposes only. For information about actual prices, refer to IAE Price Catalogue or contact IAE spare parts sales department.

C. Instructions disposition codes:

(A) New standard of unit will be made available from November 1998.

(B) Old standard of unit will be discontinued.

(S1) Old and newstandard of units are freely and fully interchangeable.



3. Accomplishment Instructions

A. Rework Instructions

None.

B. Assembly Instructions

- (1) For the correct removal/installation procedures, refer to the manuals that follow;
 - (a) A5 Engine Manual (EM), Chapter/Section 72-00-60, Removal-06, CONFIG-2 and Installation-02.
 - (b) D5 Engine Manual (EM), Chapter/Section 72-00-60, Removal-06 and Installation-02.
 - (c) A319/A320/A321 Aircraft Maintenance Manual (AMM), Chapter/Section 73-22-52, Removal/Installation CONFIG-2.
 - (d) MD-90 Aircraft Maintenance Manual (AMM), Chapter/Section 73-21-52, Removal/Installation.

C. Recording Instructions

A record of accomplishment is necessary. Refer to Woodward Service Bulletin V2500-73-0136.

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