International Aero Engines

SERVICE BULLETIN

ENGINE - FUEL AND CONTROL - ENGINE FUEL AND CONTROL - FUEL METERING UNIT - INTRODUCTION OF FUEL METER SUPPLIED BY WOODWARD GOVERNOR COMPANY - CATEGORY CODE 7 - MOD.ENG-73-0097

1. Planning Information

A. Effectivity

(1) Aircraft (a) Airbus A319

(2) Engines (a) V2522-A5 Engines prior to Serial No.V10240
(b) V2524-A5 Engines prior to Serial No.V10240

B. Concurrent Requirements

This Service Bulletin must only be installed to engines which have IAE V2500 Service Bulletins V2500-ENG-73-0086 (See L. (1)(a)) and V2500-ENG-73-0097 (See L.(1)(b)).

C. Reason

(1) Condition

It is necessary to install a fuel meter supplied by Woodward Governor Company.

(2) Background

As above in (1).

(3) Objective

The purpose of this Service Bulletin is to obey customer standards.

(4) Substantiation

Satisfactory unit, rig and engine flight tests have been done on the changes contained in this Service Bulletin.

(5) Effect of bulletin on workshop procedures

Removal/Installation	Not affected
Disassembly/Assembly	Not affected
Cleaning	Not affected
Inspection/Check	Not affected
Repair	Not affected
Testing	Not affected

(6) Supplemental Information

When this Service Bulletin has been done, the installation arrangement number located on the engine identification plate is changed from AQ02 to AQ03. Refer to D. Description for effectivity and procedure for recording this change.

D. Description

(1) This Service Bulletin introduces a Woodward Governor Company fuel meter for revenue service. It has a two position maximum-flow stop set in the LOW position.

To make the engine pass-off test standards easier, a setting instruction has been added.

(2) When this Service Bulletin has been done, AQ03 has to be put on the engine identification plate below "Installation Arrangement".

E. Approval

The part number changed and/or part modification are given in section 2 and 3 of this Service Bulletin. To obey the applicable Federal Aviation Regulations and are FAA-APPROVED for the engine models listed.

F. Compliance

Category 7

Do this Service Bulletin when there are no initial parts remaining.

G. Manpower

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

Venue	Estimated Manhours
(1) In service	
(a) To gain access	11 minutes
(b) To replace the FMU ..	3 hours
(c) To return Engine to flyable status	17 minutes
Total	3 hours 28 minutes
(2) At overhaul	No additional time is necessary to do 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) See "Material Information" section for prices and availability of spares.

I. Tooling - Price and Availability

Special tools are not necessary

J. Weight and Balance

(1)	Weight change	Minus 1,04 Kg (2,3 lb.)
(2)	Moment arm	419 mm (16.5in.) Forward of datum
(3)	Datum	Engine front mount centreline (Power Plant Station - PPS 100)

K. Electrical Load Data

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

L. References

(1) Internal Reference No.

EC95VR007B

96VI007

(2) Other References

The Service Bulletins which follow must be done before or with this Service Bulletin:

(a) SB V2500-ENG-73-0086 (Provide new SCN11 Electronic Engine Control), in accordance with EC VZ005.

(b) SB V2500-ENG-73-0097 (Introduction of Woodward FMU Flow Straightener). This Service Bulletin identifies the Woodward FMU for the A319 aircraft with part number 8061-627.

The Aircraft Maintenance Manual

M. Other Publications Affected

(1) The V2500 Engine Illustrated Parts Catalog (IPC), Chapter/Section, 73-22-52.

(2) V2500-A5 Engine Manual, Chapter/Section, 72-60-00, Installation-12.

(3) Airbus A319 Aircraft Maintenance Manual, Chapter/Section, 73-22-52, Removal/Installation-10, CONFIG-2.

2. Accomplishment Instructions

For the correct removal/installation procedures refer to V2500-A5 Engine Manual (EM), Chapter/Section, 72-00-60, Installation-12 or the A319 Aircraft Maintenance Manual (AMM), Chapter/Section, 73-22-52 Removal/Installation-10, CONFIG-2.

A. Part 1 To replace a Lucas FMU with of a Woodward Governor FMU before aircraft delivery.

(1) The demountable power-plant number, must be changed. Table 1 indentifies the correct number that must be shown. The number will match the engine type.

RATING	DPP NUMBER
22K	745-6001-509
24K	745-6001-511

TABLE 1
(Demountable Power Plant Numbers)

(2) The number is located below the TAI duct on the fan case. Use a rubber stamp and OMat 06-073 marking ink.

Refer to the IAE V2500 Standard Practices/Processes Manual Chap. 70-90-00.

Initial numbers must be covered with marking ink.

(3) The engine data plate also must be changed to show a different installation arrangement number. Table 2 indentifies the numbers that must be shown for the different configurations.

LUCAS AEROSPACE plc	WOODWARD GOVERNOR
AQ02	AQ03

TABLE 2
(Installation Arrangement Numbers)

(a) With a vibro engraving tool score out the initial Installation Arrangement Number (IAN)..

(b) In a space aligned with INSTL ARR on the data plate, vibro engravethe correct number in Table 2.

(c) When this change has been done a new data plate must be ordered. This will make sure that any other changes to the IAN can be done.

B. Part 2 To replace a Lucas FMU with a Woodward Governor FMU in service.

(1) The engine data plate must be changed to show a different installation arrangement number. Table 2 identifies the numbers that must be shown for the different configurations.

(a) With a vibro engraving tool, score out the initial Installation Arrangement Number (IAN).

(b) In a space aligned with INSTL ARR on the data plate, vibro engravethe correct number from the Woodward Governor column on Table 2.

(c) When this change has been done a new data plate must be ordered. This will make sure that any other changes to the IAN can be done.

C. Part 3 To replace a Woodward Governor FMU with a Lucas FMU in service.

(1) The engine data plate must be changed to show a different installation arrangement number. Table 2 identifies the numbers that must be shown for the different configurations.

(a) With a vibro engraving tool, score out the initial Installation Arrangement Number (IAN).

(b) In a space aligned with INSTL ARR on the data plate, vibro engravethe correct number from the Lucas Aerospace column on Table 2.

(c) When this change has been done a new data plate must be ordered. This will make sure that any other changes to the IAN can be done.

D. Recording Instructions

A record of accomplishment is necessary.

3. Material Information

Applicability: For each V2500 Engine to incorporate this Bulletin.

A. Kits associated with this Service Bulletin:

None

B. Vendor unit affected by this Service Bulletin:

New Part No. (ATA No.)	Qty	Est'd Unit Price ($)	Keyword	Old Part No. (IPC No.)	Instructions Disposition
8061-627 (73-22-52)	1		Meter, fuel	FMU530MK2 (01-100)	(A)(B)(S1)

C. Reference drawings

4W6251 (73-22-52)	Ref		Instruction, Setting	- (99-300)	(C)

NOTE: The 1997 unit prices shown are an estimate and they are given for the purpose of planning only. For information about actual prices, refer to the IAE Price Catalog or contact IAE's Spare Parts Sales Department.

D. Instructions disposition codes statements:

(A) New part is currently available.
(B) Old part may be used on other V2500 model applications.
(C) Reference, only necessary during engine pass-off.
(S1) Old and new parts are not interchangeable.