

International Aero Engines

SERVICE BULLETIN

<u>ENGINE - FUEL AND CONTROL - FUEL METERING UNIT - INTRODUCTION OF MOOG TORQUEMOTOR WITH</u>

<u>IMPROVED FILTRATION - CATEGORY CODE 6 - MOD.ENG-73-0047</u>

1. Planning Information

A. Effectivity

(1) Aircraft : Airbus A320

(2) Engine : V2500-A1 Engines

(3) Fuel Metering Units: All Mk.3 units

B. Reason

(1) Condition

Contamination within the torquemotors can lead to uncommanded valve movements if the nozzles become partially or totally blocked.

(2) Background

This condition was identified during engine endurance running.

(3) Objective

Incorporation of the changes introduced by this Service Bulletin are designed to maintain unit reliability.

(4) Substantiation

Validation of the new torquemotors is by means of favourable comparison with previous contamination testing carried out on similar units, and successful rig testing of an FMU equipped with the proposed strainers.

(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

None

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C. <u>Description</u>

- (1) This Service Bulletin covers the fitment to engines of a fuel metering unit incorporating Lucas Modification CP.6902.
- (2) This Service Bulletin introduces new torquemotors which incorporate improved protection against contamination.
- (3) Units incorporating this Service Bulletin will be identified by the serial number FMU500MK4.

NOTE: The following modifications will be fitted prior to concurrently with this modification:

Lucas Modification

Lucas Service Bulletin

CP6619 CP6646			500-73-6619 500-73-6646
CP6647	(Superseded by	FMU	500-73-6647
	CP6645 from		
	FMU S/N B265 onwards)		
CP6734		FMU	500-73-6734
CP6847		FMU	500-73-6847
CP6874	(Supersedes CP6800)	FMU	500-73-6874
CP6876		FMU	500-73-6876

D. Approval

The part number changes and/or part modification described in Section 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 tested.

E. Compliance

Category Code 6

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Accomplish when the subassembly (i.e. modules, accessories, components, build groups) is disassembled sufficiently to afford access to the affected part and to all affected spare parts.

F. Manpower

Estimated manhours to incorporate the full intent of this bulletin:

venue	Estimated Mannours			
(1) In service				Not applicable
(2) At overhaul				Refer to Lucas Service Bulletin FMU 500-73-6902

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- G. Material Price and Availability
 - (1) Modification kit not required.
 - (2) Refer to Lucas Service Bulletin FMU 500-73-6902
- H. Tooling Price and Availability

Special tools are not required to accomplish this Service Bulletin.

- I. Weight and Balance
 - (1) Weight change None
 - (2) Moment arm No effect
 - (3) Datum Engine front mount centreline (Power Plant Station (PPS) 100)
- J. Electrical Load Data

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

- K. <u>References</u>
 - (1) Internal Reference No.

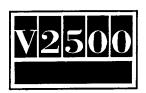
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(2) Other References

Lucas Modification

CP.6902 (Improved protection from contamination in Moog Servovalves)

- L. Other Publications Affected
 - (1) V2500 Illustrated Parts Catalog, 73-22-52 will be revised.
 - (2) V2500 Engine Component Maintenance Manual, Chapter 73-22-52.



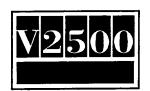
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2. Accomplishment Instructions

A. Rework Instructions

Incorporate the intent of Lucas Service Bulletin FMU 500-73-6902.

- B. Recording Instructions
 - (1) A record of accomplishment is necessary.



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3. Material Information

Applicability: For each V2500 Engine to incorporate this Bulletin.

A. <u>Kits associated with this Bulletin:</u>

None

B. Parts affected by this Bulletin:

New Part No. (ATA No.)	Est'd Unit Qty Price (\$) Keyword	Old Part No. (IPC No)	Instructions Disposition
FMU500MK4 (73-22-52)	1	Metering Unit, Fuel	FMU500MK3 (01-100)	(1D)

C. <u>Instructions/Disposition Code Statement:</u>

(1D) Old and new parts are fully interchangeable.

