



AIR - LPC BLEED, MASTER ACTUATOR - INTRODUCTION OF A LINEAR VARIABLE DIFFERENTIAL TRANSFORMER WITH DIFFERENT ADHESIVE TAPE - CATEGORY CODE 6 - MOD.ENG-75-0068

1. Planning Information

A. Effectivity

- (1) Aircraft:
- (a) Airbus A319
 - (b) Airbus A320
 - (c) Airbus A321
 - (d) Boeing Douglas MD-90
- (2) Engines:
- (a) V2500-A1 Engines prior to Serial No.V0362
 - (b) V2522-A5 Engines prior to Serial No.V10450
 - (c) V2524-A5 Engines prior to Serial No.V10450
 - (d) V2527-A5 Engines prior to Serial No.V10450
 - (e) V2527E-A5 Engines prior to Serial No.V10450
 - (f) V2530-A5 Engines prior to Serial No.V10450
 - (g) V2533-A5 Engines prior to Serial No.V10450
 - (h) V2525-D5 Engines prior to Serial No.V20250
 - (i) V2528-D5 Engines prior to Serial No.V20250

B. Concurrent requirements

None.

C. Reason

(1) Problem

An open circuit condition can occur in the primary and secondary windings of the linear variable-differential transformer (LVDT). The LVDT is contained in the LP Compressor bleed master-actuator.

The problem is caused by the high temperatures that occur in-service. This causes a chemical reaction on the acrylic adhesive of the polyimide tape around the soldered joints. This then causes damage to the lead in the solder and results in deterioration of the soldered joints.

(2) Evidence

There has been a number of reports of this problem on units in service.

(3) Substantiation

A satisfactory engineering analysis, gas chromatography/mass spectrometry analysis and laboratory fuel vapour tests have been done on the changes in this Service Bulletin.

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(4) Objective

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

(5) Effect of Bulletin on:

Operation	Not affected
Maintenance	Not affected
Overhaul	Not affected
Repair Schemes	Not affected
Interchangeability	Not affected
Fits and Clearances	Not affected

D. Description

(1) This Service Bulletin includes the installation of an LPC Bleed Master Actuator that has the Lucas Aerospace Modification DTV-057.

(2) The changes are:

(a) The LPC Bleed Master Actuator has changed. The LVDT acrylic adhesive tape has a silicone adhesive.

(3) DTV-057 must be put on the modification plate of units that have this Service Bulletin.

E. Compliance

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This Service Bulletin can be done when the subassembly (That is modules, accessories, components, build groups) is disassembled sufficiently to get access to all the affected parts.

F. Approval

The part number changes and/or modification are given in Section 2 and 3 of this Service Bulletin. They obey the application Federal Aviation Regulations and are FAA-APPROVED for the engine models listed.

G. Manpower

(1) In service Not applicable

(2) At overhaul No more 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.

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H. Material – Price and Availability

- (1) A Modification kit is not necessary.
- (2) For prices and availability of spares refer to 2. Material Information.

I. Tooling – Price and Availability

Special tools are not necessary.

J. Weight and Balance

- (1) Weight change None
- (2) Moment arm No effect
- (3) Datum Engine front mount centreline
Power Plant Station (PPS) 100

K. Electrical Load Data

This Service Bulletin does not affect the aircraft electrical load.

L. References

- (1) Internal Reference No.

EC97VI006

- (2) Other References

Refer to the vendor Service Bulletins that follow

- (a) 1666-75-006 (A1/A5)
- (b) 1777-75-003 (A5)
- (c) 1797-75-002 (D5)

Refer to Airbus Modification No. 21820

M. Other Publications Affected

None



2. Accomplishment Instructions

A. Rework instructions

None

B. Assembly instructions

For the correct removal/installation procedures refer to the A319/A320 Aircraft Maintenance Manual (AMM), Chapter/Section, 75-31-42, Removal/Installation or MD-90 Aircraft Maintenance Manual (AMM), Chapter/Section 75-32-42, Removal/Installation.

C. Record instructions

- (1) A record of accomplishment is necessary. Refer to the vendor Service Bulletins at 1.L.

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3. Material Information

Applicability: For each V2500 Engine to incorporate this Bulletin.

A. Kits necessary for this Service Bulletin:

None.

B. Parts affected by this Service Bulletin:

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

A1 Models					
1666MK5 (75-31-42)	1		Actuator - Master LPC Bleed (VU4271)	1666MK5 (01.100)	(A)(B)(S1)
A5 Models					
1777MK2 (75-31-42)	1		Actuator, Master LPC Bleed (VU4271)	1777MK2 (01.100)	(A)(B)(S1)
D5 Models					
1797MK2 (75-31-42)	1		Actuator, Master LPC Bleed (VU4271)	1797MK2 (01.100)	(A)(B)(S1)

NOTE: The unit prices, if 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.

C. Instruction Disposition Codes:

- (A) New part is currently available.
- (B) Old part will be discontinued.
- (S1) Old and new parts are freely and fully interchangeable.

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