

# SERVICE BULLETIN

# OIL - ENGINE - AIR MODULATING VALVE - INTRODUCTION OF A 'P' SEAL HAVING REDUCED COMPRESSIVE LOAD - CATEGORY CODE 5 - MOD.ENG-79-0054

### 1. Planning Information

### A. Effectivity

- (1) Aircraft: (a) McDonnell Douglas MD90
- (2) Engine (a) V2525-D5 Engines prior to Serial No. V20049
  - (b) V2528-D5 Engines prior to Serial No. V20049

## B. Concurrent Requirements

None.

#### C. Reason

#### (1) Condition

The existing 'P' seal on the air modulating valve may exert excessive pressure on the fan cowl door.

## (2) Background

On closing the aircraft door some operators have experienced difficulty. This difficulty has been attributed to excessive compression force exerted by the existing air modulating valve 'P' seal.

#### (3) Objective

To introduce a new 'P' seal with reduced compression force and greater flexibility.

#### (4) Substantiation

The changes introduced by this Service Bulletin have been shown during testing that the new 'P' seal complies with the required reduced compression rate and alleviates the existing condition.

### (5) Effect of Bulletin on Workshop Procedures



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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

#### D. <u>Description</u>

- (1) This Service Bulletin covers the fitment to engines of an air modulating valve incorporating Lucas Modification L1795-5.
- (2) This Service Bulletin introduced a redesigned 'P' seal with a reduced compressive load.
- (3) The new 'P' seal must be fitted in lieu of the replaced part.

#### E. 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 listed.

# F. Compliance

Category Code 5

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

### G. Manpower

Estimated manhours to incorporate the full intent of this Bulletin:

(1) In Service N/A

(2) At Overhaul

Venue Estimated Manhours



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(a) To remove Air Modulating

Valve

12 minutes

(b) To remove Air Modulating Valve

Refer to LUCAS SB1795-79-L1795-5

(c) To install Air Modulating
Valve

23 minutes

TOTAL 35 minutes

- H. Material Price and Availability
  - (1) Modification kit not required
  - (2) Refer to Lucas Service Bulletin 1795-79-L1795-5
- I. Tooling Price and Availability

Special tools are not required to accomplish this Service Bulletin.

- 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

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

- L. References
  - (1) Internal Reference No.

95VR015

(2) Other References

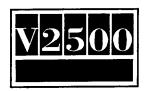
Lucas Modification L1795-5

Lucas Service Bulletin 1795-79-L1795-5

Lucas Aerospace Component Maintenance Manual 79-28-01

Aircraft Maintenance Manual 79-21-51

V2500-ENG-79-0054



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# M. Other Publications Affected

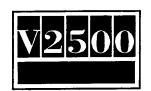
(1) V2500 Illustrated Parts Catalog (5-V2500-3IA) Chapter/Section 79-21-51.



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# 2. Accomplishment Instructions

- A. Removal Instructions
  - (1) Remove the Oil Cooler Air Modulating Valve as instructed in the Aircraft Maintenance Manual, 79-21-51.
- B. Rework Instructions
  - (1) Rework the Oil Cooler Air Modulating Valve as per the instructions outlined in the Lucas Service Bulletin 1795-79-L1795-5.
- C. Assembly Instructions
  - (1) Install the Oil Cooler Air Modulating Valve as instructed in the Aircraft Maintenance Manual, 79-21-51.
- D. Recording Instructions
  - (1) Record in the Engine Log that this Service Bulletin has been incorporated.



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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.)	Qty	Est'd Unit Price (\$)	Keyword	Old Part No. (IPC No.)	Instructions Disposition
TY1795-53 (79-21-51)	1		Valve, Air Modulating	TY1795-52 (01-100)	(A)(B)(1D) (S1)

## C. <u>Instructions/Disposition Code Statements</u>

- (A) New part is current available
- (B) Old part is no longer available
- (1D) Old part is capable of being reworked and re-identified as new part number.
- (S1) New parts may be used in place of old parts but not vice versa.

NOTE: Consult vendor for price information.