



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. Description

- (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

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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

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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.



SERVICE BULLETIN

3. Material Information

Applicability: For each V2500 Engine to incorporate this Bulletin.

A. Kits associated with this Bulletin:

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. Instructions/Disposition Code Statements

- (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.

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