



International Aero Engines
SERVICE BULLETIN

Aug. 7/98

Subject: Transmittal of Revision 2 to Service Bulletin V2500-ENG-79-0059

Service Bulletin Revision History:

Event	Date
Basic Issue	June 13/97
Revision 1	Feb. 6/98
Revision 2	Aug. 7/98

Reason for Revision:

- (1) Correction to 1. H..
- (2) Correct Vendor SB No. at 1. L..
- (3) Editorial changes to bring SB up to latest standards.

Effect on Past Compliance:

None.

List of Effective Pages:

Page No.	Revision No.	Effective Date
1 to 8	Revision 2	Aug. 7/98

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Transmittal
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OIL - AIR COOLED OIL COOLER (ACOC) MODULATING VALVE - INTRODUCTION OF AIR
MODULATING VALVE WITH REVISED P-SEAL MATERIAL

MODEL APPLICATION

V2500-A1
V2522-A5
V2524-A5
V2527-A5
V2530-A5
V2533-A5

BULLETIN INDEX LOCATOR

79-21-00

Compliance Category Code

7

Internal Reference No.

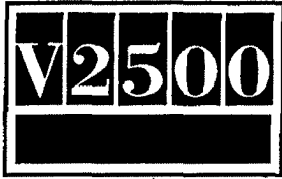
EC96VR010A

June 13/97

R Revision 2 Aug. 7/98

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OIL - AIR COOLED OIL COOLER (ACOC) MODULATING VALVE - INTRODUCTION OF AIR MODULATING VALVE WITH REVISED P-SEAL MATERIAL

1. Planning Information

A. Effectivity

(1) Aircraft

(a) Airbus A319

(b) Airbus A320

(c) Airbus A321

(2) Engines

(a) V2500-A1 Engines prior to Serial No. V0362

(a) V2522-A5 Engines from Serial No. V10261 to V10277 and then from V10282

(a) V2524-A5 Engines from Serial No. V10261 to V10277 and then from V10282

(a) V2527-A5 Engines from Serial No. V10261 to V10277 and then from V10282

(a) V2530-A5 Engines from Serial No. V10261 to V10277 and then from V10282

(a) V2533-A5 Engines from Serial No. V10261 to V10277 and then from V10282

B. Concurrent Requirements

None.

C. Reason

(1) Problem

The fire resistant P-Seal on the ACOC mounted air modulating valve (AMV), is not available. This is because one of the materials from which the P-Seal is manufactured is not available.

This has resulted in a requirement for the vendor to get a new component for this application.

(2) Background

Refer to 1. C. (1).



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R (3) Substantiation

R A successful fire test and detailed engineering assessment have been carried out on the changes
R introduced by this Service Bulletin.

R (4) Objective

R The purpose of this Service Bulletin is to make sure that the unit can continue to be
R manufactured.

(5) Effect of Bulletin on:

R (a) Operation

Not affected.

R (b) Maintenance

Not affected.

R (c) Overhaul

Not affected.

R (d) Repair Schemes

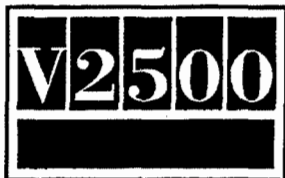
Not affected.

R (e) Interchangeability

No affected.

R (f) Fits and Clearances

Not affected.



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D. Description

- R (1) This Service Bulletin contains the installation of an AMV which has the Lucas Aerospace modification L1558-9 incorporated. (Refer to 1. L.)
- R (2) The changes introduced by this Service Bulletin are as follows:
- R (a) The material for the outlet-flange mounted P-Seal has changed from Dalfratex to Tygasil.
- R (b) For the purpose of commonality, minor changes have been made to the corner construction of the P-Seal.
- R (3) L1558-9 will be put on the modification plate of units which have had this Service Bulletin modification incorporated.

E. Compliance

Category Code 7.

R This Service Bulletin can be accomplished when there are no original parts remaining.

F. Approval

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

G. Manpower

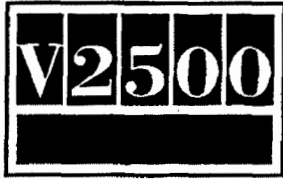
Estimate of man-hours necessary to embody this Service Bulletin in full:

<u>Venue</u>	<u>Estimated Man-hours</u>
In Service	Not applicable
At Overhaul	No additional time is necessary to embody 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

- R (1) A modification kit is not necessary.
- (2) Refer to 3. Material Information for the prices and availability of future spares.



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I. Tooling -Price and Availability

Special tools are not necessary.

J. Weight and Balance

(1) Weight Change

Not affected.

(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

R (1) Lucas Aerospace modification L1558-9:

R (a) Service Bulletin 1558-79-L1558-9 ENGINE - AIR MODULATING VALVE TY1558
R INTRODUCTION OF A NEW FLEXIBLE FIRE SEAL

M. Other Publications Affected

(1) A1/A5 Illustrated Parts Catalogue (IPC), Chapter/Section 79-21-51.



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2. Accomplishment Instructions

A. Rework Instructions

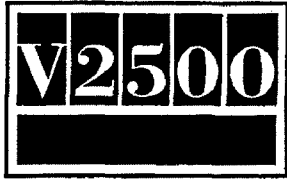
None

B. Assembly Instructions

R Refer to the Lucas Aerospace Service Bulletin 1558 - 79-L1558-9.

C. Recording Instructions

R (1) A record of accomplishment is necessary, refer to the Lucas Aerospace Service Bulletin
R 1558 - 79-L1558-9.



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3 Material Information

Applicability: For each V2500 engine for which this Service Bulletin is applicable.

A. Kits necessary for this Service Bulletin:

None.

B. Parts affected by this Service Bulletin:

NEW PART No. (ATA No.)	QTY	ESTD UNIT PRICE (\$)	PART TITLE	OLD PART No. (IPC No.)	INSTR DISP
TY1558-52 (79-21-51)	1		Valve - Air modulating	TY1558-52 (01-110)	(A)(B)(S1)

R **NOTE:** The unit prices, if shown, are an estimate and they are given for the purpose of planning only.
R For information about actual prices, refer to IAE Price Catalog or contact IAE's spare parts sales
R department.

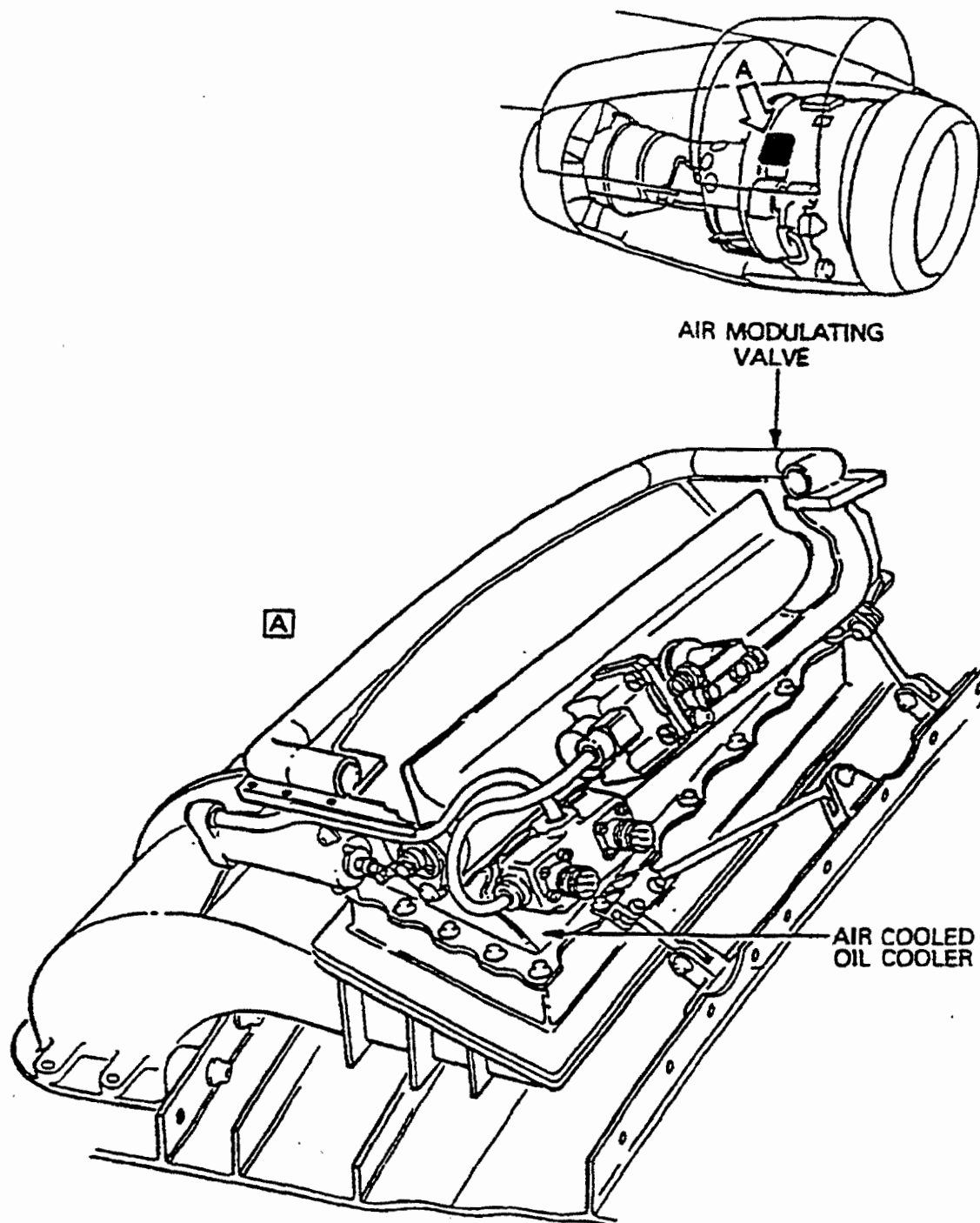
C. Instruction Disposition Codes:

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



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General View
Figure 1

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1795-79-L1795-6

ENGINE – AIR MODULATING VALVE TY1795 – Introduction of a new P seal.

MODIFICATION L1795-6

1. Planning Information

A. Effectivity

- (1) Aircraft
 - (a) MD90.
- (2) Engine
 - (a) V2500-D5
- (3) Air Modulating Valves Type TY1795-52 and -53.

B. Reason

- (1) Condition
Manufacture of the material used to make the P seal has stopped.

C. Description

- (1) The P seal made from Insulation Ceramic Cloth 'Dalfratex' is replaced with a P seal made from Fire Resistant Ceramic Cloth 'Tygasyt'.
- (2) The corners of the P seal have been changed to reduce the material thickness at the joint overlap (refer to Service Bulletin 1795-79-L1795-5).

NOTE: It is not necessary to include this modification in unit Build Standard TY1795-53 identification letter A unless the P seal is damaged.

D. Compliance

Category Code 5

E. Approval

Service Bulletin Number 1795-79-L1795-6 (Modification L1795-6) was approved by IAE on 9 July 1997. The part number changes and/or part modifications described in this Service Bulletin have been shown to comply with the appropriate Federal Aviation Regulations, and are FAA approved for those units listed in this bulletin.

F. Manpower

3 manhours are required to accomplish this modification in the workshops

G. Material – Cost and Availability

Refer to para 3, Material Information, of this bulletin

H. Tooling

An air powered rivet gun controlled at 4.9 to 5.6bar.

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ENGINE – AIR MODULATING VALVE TY1795 – Introduction of a new P seal.

MODIFICATION L1795-6

I. Weight and Balance

- | | |
|-------------------|--|
| (1) Weight change | None |
| (2) Moment arm | Not affected |
| (3) Datum | Engine Front Mount Centreline
(Power Plant Station (PPS) 100) |

J. References

Lucas Aerospace Component Maintenance Manual 79-28-01, Rolls Royce Service Bulletin ENG 79-0059.

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ENGINE – AIR MODULATING VALVE TY1795 – Introduction of a new P seal.

MODIFICATION L1795-6

2. Accomplishment Instructions

A. Disassembly

CAUTION: BE CAREFUL WHEN YOU REMOVE AND INSTALL THE RIVETS TO MAKE SURE THAT THE HOUSING ASSEMBLY IS NOT DAMAGED.

- (1) Remove the riveted end of the rivets with a 5mm (0.1968in) drill.
- (2) Remove the rivets.
- (3) Remove retaining plates and the P-seal.

WARNING: DO NOT SMOKE DURING OR FOR AT LEAST 30 MINUTES AFTER TRICHLOROETHYLENE IS USED. USE EYE PROTECTION WHEN YOU USE THIS DEGREASANT. THIS DEGREASANT IS DANGEROUS AND MUST BE USED WHERE THERE IS A GOOD FLOW OF AIR. KEEP THE CONTAINER CLOSED AS MUCH AS POSSIBLE.

- (4) Clean the face of the valve housing assembly with a clean lint free cloth moist with the trichloroethylene. Dry the face.
- (5) Clean the retaining plates with a clean lint free cloth moist with trichloroethylene. Dry the plates.
- (6) Put the P-seal on the housing face and make sure the holes are aligned.
- (7) Put the retaining plates on the P-seal with the radiused edge adjacent to the P-seal.
- (8) Make sure the holes are aligned and install the rivets.
- (8) With a controlled air powered rivet gun attach the rivets to hold the 'P' seal. Start with the middle rivet on each face and attach the rivets in a diagonally opposite sequence.
- (9) Attach the assembly with twenty four rivets.
- (10) Check the assembly to make sure:—
 - The rivets are not damaged
 - The P-seal and/or retaining plates are not damaged
 - The rivets are tight
 - The housing assembly is not damaged.

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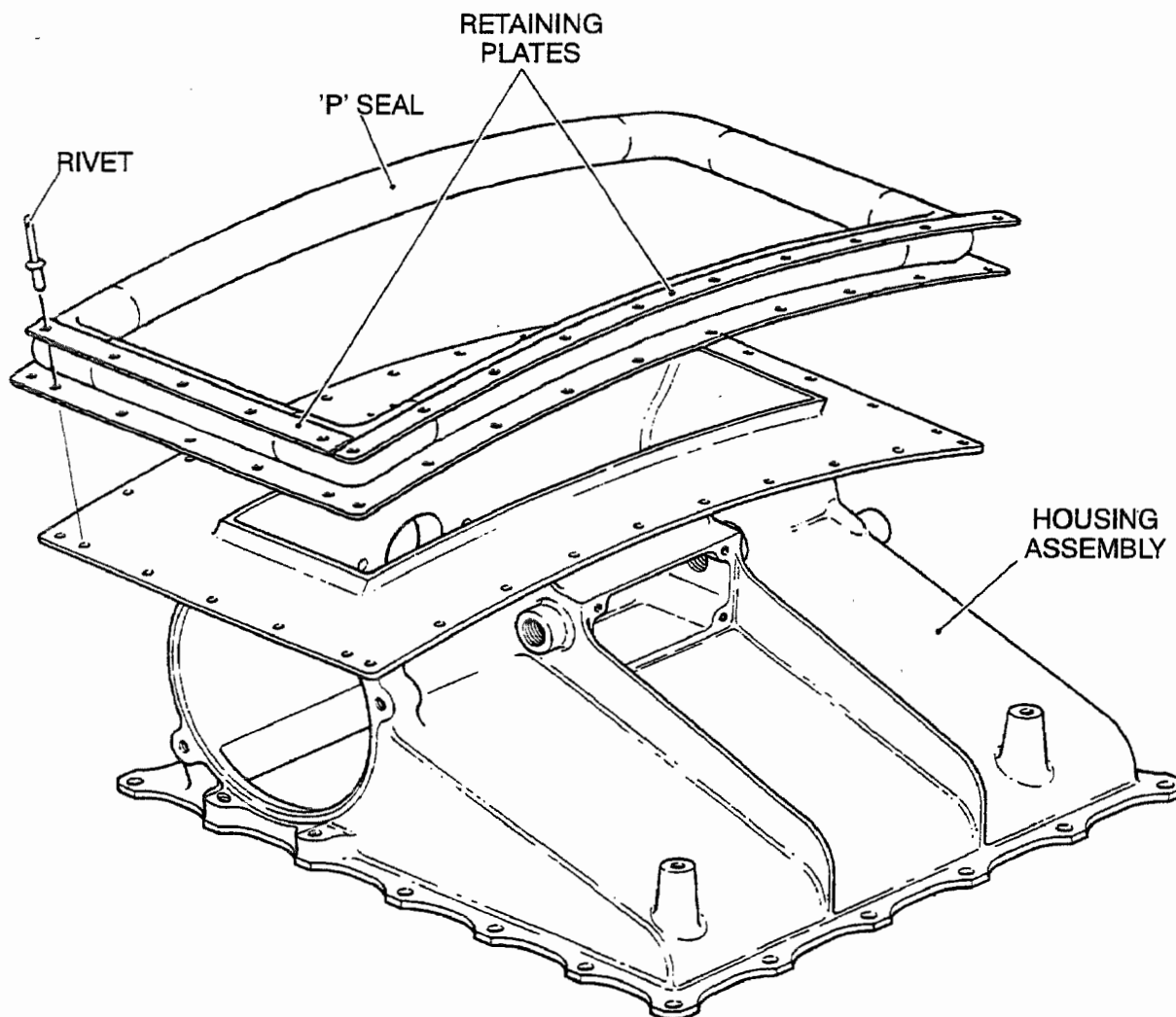
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ENGINE — AIR MODULATING VALVE TY1795 — Introduction of a new P seal.

MODIFICATION L1795-6



P Seal and Housing Assembly
Figure 1

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ENGINE – AIR MODULATING VALVE TY1795 – Introduction of a new P seal.

MODIFICATION L1795-6

B. Modification Record

If the unit is build standard TY1795-52, or, TY1795-53 identification letter A on the name plate, change the build standard to TY1795-53 identification letter B and apply a layer of clear Polyurethane varnish.

On all other units engrave L1795-6 on the unit modification plate and apply a layer of clear Polyurethane varnish.

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ENGINE – AIR MODULATING VALVE TY1795 – Introduction of a new P seal.

MODIFICATION L1795-6

3. Material Information

A. Data Basis Quantity specified is for each unit.

B. Parts Affected

<u>New Part No.</u>	<u>Qty</u>	<u>Unit List Price</u>	<u>Keyword</u>	<u>Old Part No.</u>	<u>Instructions/ disposition</u>
CH251266	1	TBD	P Seal	CH251252 or CH250823	Discard

C. Displacement Parts

<u>Part No.</u>	<u>Qty</u>	<u>Keyword</u>	<u>Price</u>
CH1558-0138	24	Rivet	TBD

For costs and availability apply to

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Product Support Manager

Product Integrity Manager

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