

International Aero Engines

RR-DERBY

400 MAIN STREET, MAIL STOP 121-10
EAST HARTFORD, CT 06108, USA.
TELEPHONE: 860 565 5515
FAX: 860 565 0600

P.O. BOX 31, DERBY
TELEGRAMS - 'ROYCAR' DERBY
TELEX - 37645
TELEPHONE - DERBY 242424

DATE **Mar. 7/03**

V2500-A1/A5 PROPULSION SYSTEMS SERVICE BULLETIN

Printed in Great Britain

This document transmits Revision 1 to Service Bulletin EV2500-79-0057

Document History

Service Bulletin Revision Status	Supplement Revision Status
Initial Issue Oct.5/01	

Bulletin Revision 1

Remove	Incorporate	Reason for change
Pages 1 to 7 of the Service Bulletin	Pages 1 to 8 of the Service Bulletin	To add V2500-A5 Engine Models.

V2500-ENG-79-0057
Transmittal - Page 1 of 2

CHECK THAT ALL PREVIOUS TRANSMITTALS HAVE BEEN INCORPORATED
If any have not been received please advise Publication Services, Rolls-Royce plc, Derby, England
© Rolls-Royce plc (date as above) Printed in Great Britain

LIST OF EFFECTIVE PAGES

The effective pages to this Service Bulletin following incorporation of Revision 1 are as follows:

<u>Page</u>		<u>Revision Number</u>	<u>Revision Date</u>
	Bulletin		
R	1	1	Mar.7/03
R	2	1	Mar.7/03
R	3	1	Mar.7/03
R	4	1	Mar.7/03
R	5	1	Mar.7/03
R	6	1	Mar.7/03
R	7	1	Mar.7/03
R	8	1	Mar.7/03

Printed in Great Britain



ENGINE - OIL - NO.4 BEARING COMPARTMENT SCAVENGE VALVE - INTRODUCTION OF A NO.4 BEARING SCAVENGE VALVE SUPPLIED BY TECHSPACE AERO

Printed in Great Britain

1. Planning Information

A. Effectivity

- R (1) Airbus A319
V2522-A5, V2524-A5, V2527M-A5 Engines.
- R (2) Airbus A320
V2500-A1 Engines.
V2527-A5, V2527E-A5 Engines.
- R (3) Airbus A321
V2530-A5, V2533-A5 Engines.
- R (4) ATA Locator 79-23-51

B. Concurrent Requirements

None

C. Reason

(1) Condition

There is a requirement to install a Number 4 Bearing Compartment Scavenge Valve supplied by Techspace Aero in place of the unit supplied by TRW Lucas Aerospace.

(2) Background

As above in (1)

(3) Objective

Incorporation of the changes introduced by this Service Bulletin (Modification) is designed to aid production and spares supply, and therefore to satisfy customer requirements.

(4) Substantiation

The changes introduced by this Service Bulletin have been the subject of satisfactory unit, rig and engine testing.



(5) Effect of Bulletin on:

(a) Operation

Not affected

(b) Maintenance

Not affected

(c) Overhaul

Not affected

(d) Repair Schemes

Not affected

(e) Interchangeability

Not affected

(f) Fits and Clearances

Not affected

D. Description

The current engine oil system employs a No.4 bearing compartment scavenge valve supplied by TRW Lucas Aerospace. This Service Bulletin replaces it with a similar unit supplied by Techspace Aero located in the same position on the propulsion system. Whilst the new unit has minor physical differences, all attaching parts are unchanged.

E. Compliance

Category Code 7

Accomplish when supply of superseded parts has been depleted.

F. 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 models listed.

G. Manpower

(1) In-service

Not affected



(2) At overhaul

Not affected

NOTE: The parts affected by this Service Bulletin are accessible at overhaul

H. Material Price and Availability

Modification kit not required; parts supplied as single line items

For prices and availability of future spares, refer to 2. Material information.

I. Tooling Price and Availability

Special tools are not required

J. Industry Support Information

Not applicable

K. Weight and Balance

(1) Weight Change

Minus 1.0 lb (minus 0.45 kg)

(2) Moment Arm

33.8in. (859mm) forwards of datum.

(3) Datum

Engine Front Mount Centreline (Power Plant Station PPS 100).

L. Electrical Load Data

This Service Bulletin does not affect the aircraft electrical load.

M. Software Accomplishment Summary

Not applicable

N. References

(1) Internal reference 99VI003

(2) Airbus aircraft modification 31679

(3) Engine Manual, 72-00-60, Removal-08 and Installation-08



(4) Aircraft Maintenance Manual, 79-23-51, Removal/Installation

O. Other Publications Affected

Illustrated Parts Catalogue (IPC) 1IA, 79-23-51 will be revised.

P. Interchangeability of Parts

Not affected



Printed in Great Britain

2. Material Information

A. New production parts:

PART NO.	QTY	UNIT PRICE US DOLLARS
32F0003	1	Price on application

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

B. Vendor units affected by this bulletin:

Applicability: For each V2500 engine to incorporate this Bulletin.

The type of equipment affected by this Service Bulletin is listed below for information only:

79-23-51

FIG ITEM NO.	NEW PART NO.	QTY	PART TITLE	MAT	OLD PART NO.	INSTR DISP
01100	32F0003	1	Valve, Scavenge - No.4 Bearing (VB1316)	-	1779MK2	(A)(S1)

C. Instructions disposition codes:

R (A) New standard of unit is currently available.

(S1) Old and new units are freely and fully interchangeable.



3. Accomplishment Instructions

A. Rework Instructions

None

B. Assembly Instructions

The revised parts introduced by this Service Bulletin are interchangeable. Remove and install in accordance with current overhaul procedures and maintenance practices (Engine Manual, 72-00-60, Removal-08 and installation-08 and Aircraft Maintenance Manual, 79-23-51, Removal/installation).

C. Recording Instructions

A record of accomplishment is required.

Printed in Great Britain



V2500-A1 No.4 Bearing Scavenge Valve Family Tree *

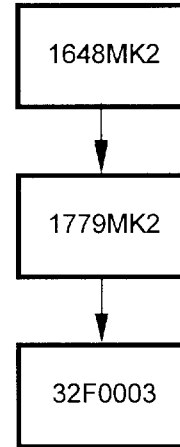
Printed in Great Britain

Service Bulletin Number	Unit Mod Plate Endorsement
--------------------------------	-----------------------------------

BASELINE TRW Lucas Aerospace.	NONE
---	-------------

V2500-ENG-79-0044 Introduction of a new No.4 scavenge valve.	ENG-79-0044
---	--------------------

V2500-ENG-79-0057 Introduction of a Techspace Aero No.4 Bearing Compartment Scavenge Valve.	ENG-79-0057
---	--------------------



R

* This family tree is not intended to represent the combination of modifications fitted to units in service

dec0004115

R
R

V2500-A1 No.4 bearing scavenge valve family tree
Fig 1

Oct 5/01
R Mar. 7/03

V2500-ENG-79-0057
Page 7



V2500-A5 No.4 Bearing Scavenge Valve Family Tree *

Service Bulletin Number

Unit Mod Plate Endorsement

BASELINE

TRW Lucas Aerospace

NONE

V2500-ENG-70-0380

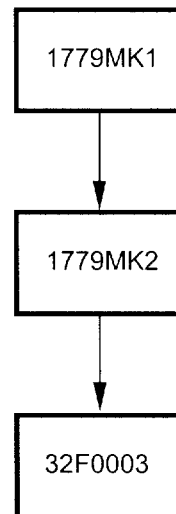
Change spring rate of No.4 Scavenge Valve to improve valve schedule.

ENG-70-0380

V2500-ENG-79-0057

Introduction of a Techspace Aero No.4 Bearing Compartment Scavenge Valve.

ENG-79-0057



* This family tree is not intended to represent the combination of modifications fitted to units in service

ded0004559

V2500-A5 No.4 bearing scavenge valve family tree
Fig 2

V2500-ENG-79-0057

R
R

Oct 5/01
R Mar. 7/03