

International  
Aero Engines

V2500 Propulsion System — Nacelle

# SERVICE BULLETIN

Date: January 26, 1999

Subject: Transmittal of Revision 2 to Service Bulletin Number V2500-NAC-36-0003

## Service Bulletin Revision History:

<u>Event</u>	<u>Date</u>
Basic Issue	Mar. 12/98
Revision 1	Jul. 08/98
Revision 2	Jan. 26/99

## Reasons for Issuance of Revision

- (1) To revise the text and kit listing to include an alternate valve part number.

## Effect on Past Compliance

- (1) None.

## List of Effective Pages:

<u>Page No.</u>	<u>Rev. No.</u>	<u>Date</u>
1	2	Jan. 26/99
2 thru 6	Basic	Mar. 12/98
7 and 8	2	Jan. 26/99
9	Basic	Mar. 12/98

V2500-NAC-36-0003

Transmittal  
Page 1 of 1





**International  
Aero Engines**

V2500 Propulsion System — Nacelle

# SERVICE BULLETIN

NACELLE — PNEUMATIC — ENVIRONMENTAL CONTROL SYSTEM — CHECK VALVE —  
INTERMEDIATE PRESSURE — REPLACEMENT OF

## MODEL APPLICATION

V2500-D5

## BULLETIN INDEX LOCATOR

36-11-00

### Compliance Category Code

4

### Internal Reference No.

JG 95VN318

March 12, 1998

**V2500-NAC-36-0003**

R Revision 2 - January 26, 1999

Page 1 of 9



**International  
Aero Engines**

V2500 Propulsion System — Nacelle

# **SERVICE BULLETIN**

## **1. Planning Information**

### **A. Effectivity**

- (1) Airplane: MD90
- (2) Nacelle: V2500-D5
  - (a) V2500-D5 Engine Buildup Units (EBU) and Quick Engine Change (QEC) serial numbers 0022001 through 0141001.

### **B. Reason**

- (1) Condition

Environmental control system (ECS) check valve cross shaft wear may cause flapper plates to come loose.
- (2) Background

Diameter of ECS check valve cross shaft is too small.
- (3) Objective

To reduce ECS check valve cross shaft wear.
- (4) Substantiation

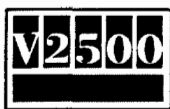
Endurance test of new ECS check valve has proven successful.
- (5) Impact of the Bulletin on Workshop Procedures:

Removal/Installation	Not Affected
Disassembly/Assembly	Not Affected
Cleaning	Not Affected
Inspection/Repair	Not Affected
Repair	Not Affected
Testing	Not Affected

March 12, 1998

**V2500-NAC-36-0003**

Page 2



**International  
Aero Engines**

V2500 Propulsion System — Nacelle

# **SERVICE BULLETIN**

(6) Supplemental Information

None.

C. Description

The change introduced by this Bulletin is as follows:

Replaces the ECS check valve with an improved ECS check valve.

D. Approval

Incorporation of this Service Bulletin must be accomplished only in conjunction with Douglas Aircraft Company Service Bulletin MD90-36-008 which has received exclusive FAA approval for MD-90 Series aircraft.

E. Compliance

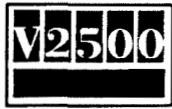
Category 4

Accomplish at the first visit of the nacelle or nacelle component to a maintenance base capable of compliance with the accomplishment instructions regardless of the planned maintenance action for the nacelle or nacelle component.

March 12, 1998

**V2500-NAC-36-0003**

Page 3



International  
Aero Engines

V2500 Propulsion System — Nacelle

# SERVICE BULLETIN

## F. Manpower

Estimated manhours to incorporate the full intent of this Bulletin for each nacelle:

### VENUE

### ESTIMATED MANHOURS

#### (1) In Service

(a) To gain access	0.25 M/hour
(b) To modify	1.00 M/hour
(c) To return to service	<u>0.25 M/hour</u>
Total	1.50 M/hour

**NOTE:** After incorporation of this modification, a maximum of 3.0 manhours for labor will be reimbursed by Rohr as a labor credit allowance per affected aircraft. To obtain a labor credit allowance after procurement of noted material, labor claims should reference this service bulletin number and aircraft fuselage number and be submitted to:

Rohr, Inc.  
850 Lagoon Drive  
Chula Vista, CA 91910-2098  
U.S.A.  
Attn: Airline Support Manager, MZ 107A  
Warranty Department  
(Ref. Service Bulletin V2500-NAC-36-0003)

March 12, 1998

V2500-NAC-36-0003

Page 4



# SERVICE BULLETIN



**International  
Aero Engines**

V2500 Propulsion System — Nacelle

# **SERVICE BULLETIN**

## **K. References**

## **Chapter/Section**

MD90 Aircraft Maintenance Manual

36-11-10

78-32-00

IAE V2500 Standard Practices/Processes  
Manual

70-09-00

## **L. Other Publications Affected**

MD90/V2500D5 Engine Illustrated Parts  
Catalog (S-V2500-3IA)

36-11-41

36-11-49

MD90/V2500D5 Power Plant Buildup  
Manual (PPB-V2500-3IA)

71-00-02

MD90/V2500D5 Power Plant Conversion  
Manual

71-00-02

March 12, 1998

**V2500-NAC-36-0003**

Page 6





**International  
Aero Engines**

V2500 Propulsion System — Nacelle

# **SERVICE BULLETIN**

## **2. Accomplishment Instructions**

### **A. Pre-requisite Instructions**

- (1) Open the thrust reverser halves. Refer to the MD90 Aircraft Maintenance Manual, Chapter 78-32-00, Page Block 201.

### **B. Rework or Modification Instructions**

- (1) Remove the 2S6392-2 (290D8033-505) intermediate pressure check valve and the two 12109-450 e-seals. Discard the e-seals and the valve. Refer to the MD90 Aircraft Maintenance Manual, Chapter 36-11-10, Page Block 401.
- (2) Install the 2S6392-3 (290D8033-507) or 2S6392-4 (290D8033-509) intermediate pressure check valve and the two 13100-450 u-plex seals. Refer to the MD90 Aircraft Maintenance Manual, Chapter 36-11-10, Page Block 401.

R  
R

### **C. Post-requisite Instructions**

- (1) Close the thrust reverser halves. Refer to the MD90 Aircraft Maintenance Manual, Chapter 78-32-00, Page Block 201.

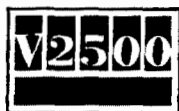
### **D. Recording Instructions**

- (1) A record of accomplishment is necessary. Write in the applicable records and metal stamp, vibroetch, or electroetch on the engine data plate that Service Bulletin V2500-NAC-36-0003 has been done. Refer to the IAE V2500 Standard Practices/Processes Manual, Chapter 70-09-00.

March 12, 1998  
Revision 2 - January 26, 1999

**V2500-NAC-36-0003**

Page 7



International  
Aero Engines

V2500 Propulsion System — Nacelle

# SERVICE BULLETIN

## 3. Material Information

Applicability: For each V2500-D5 EBU to incorporate this Bulletin.

### A. Kits associated with this Bulletin:

	NEW PART NO (ATA NO)	QTY	EST'D UNIT PRICE	KEYWORD	OLD PART NO (IPC NO)	INSTR/ DISPOS
	V2536003-551			Kit		(A)
	Consisting of:					
	2S6392-3	1		Valve		
	(290D8033-507)					
R	2S6392-4	1		Valve		
R	(290D8033-509)	1		(alt for		
R				2S6392-3)		
	13100-450	2		U-plex Seal		
	13227-400	1		U-plex Seal		

### B. Parts affected by this Bulletin:

	NEW PART NO (ATA NO)	QTY	EST'D UNIT PRICE	KEYWORD	OLD PART NO (IPC NO)	INSTR/ DISPOS
	2S6392-3	1		Valve	2S6392-2	(1D)(S1)
	(290D8033-507)				(290D8033-505)	
	(36-11-41)				(05-010)	

### C. Instruction/Disposition Code Statements

(A) Kit available June 1998.

(1D) Discard old part.

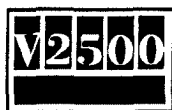
(S1) Old part number may be used only where old part number was installed. New part number is acceptable replacement for the old or new part number.

March 12, 1998

Revision 2 - January 26, 1999

V2500-NAC-36-0003

Page 8



**International  
Aero Engines**

V2500 Propulsion System — Nacelle

# **SERVICE BULLETIN**

D. Materials Required to Incorporate this Service Bulletin:

None.

March 12, 1998

**V2500-NAC-36-0003**

Page 9

