

**International  
Aero Engines**

V2500 Propulsion System — Nacelle

# SERVICE BULLETIN

Date: May 5, 1997

Subject: Transmittal of Revision 1 to Service Bulletin Number V2500-NAC-30-0001

Service Bulletin Revision History:

<u>Event</u>	<u>Date</u>
Basic Issue	Dec. 15/95
Revision 1	May 05/97

Reasons for Issuance of Revision

- (1) To change the effectivity statement on page 2 and the Barber Colman service bulletin reference on page 3.

Effect on Past Compliance

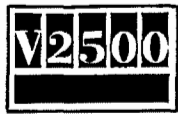
- (1) None.

List of Effective Pages:

<u>Page No.</u>	<u>Rev. No.</u>	<u>Date</u>
1 thru 3	1	May 05/97

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# **SERVICE BULLETIN**

**NACELLE - ICE AND RAIN PROTECTION - ANTI-ICE REGULATOR VALVE -  
REPLACEMENT OF**

**MODEL APPLICATION**

**V2500-D5**

**BULLETIN INDEX LOCATOR**

**30-00-00**

**Compliance Category Code**

**4**

**Internal Reference No.**

**JG/LL 95VN350/97VN806**

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## NACELLE - ICE AND RAIN PROTECTION - ANTI-ICE REGULATOR VALVE - REPLACEMENT OF

### 1. Planning Information

#### A. Effectivity

- (1) Aircraft: McDonnell-Douglas MD-90
- (2) Nacelle: V2500-D5
- (3) Unit:

- (a) Thermal anti-ice regulator valves, RYLB52192-2 and RYLB52192-3, with Serial Numbers 20 through 191.

#### B. Reason

A limited number of thermal anti-ice regulator valves may contain defective springs. These valves must be returned to the vendor for modification and/or replacement.

#### C. Compliance

Category 4.

Accomplish at the first visit of the nacelle to a maintenance base capable of compliance regardless of the planned maintenance action for the nacelle.

#### D. Approval

Incorporation of this Service Bulletin must be accomplished only in conjunction with Douglas Aircraft Company Service Bulletin MD90 30-005 which has received exclusive FAA approval for MD-90 Series aircraft.

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## E. References

- (1) IAE Engineering Change 95VN850.
- (2) Barber-Colman Service Bulletin RYLB52192-2/30-2.
- (3) MD90 Aircraft Maintenance Manual

## F. Manpower

VENUE	ESTIMATED MANHOURS
(1) In Service	
(a) To gain access	0.1 M/Hrs
(b) To replace valve	1.0 M/Hrs
(2) At Overhaul	Not Applicable
TOTAL	1.1 M/Hrs

## G. Action

- (1) Open the fan cowl doors. Refer to Reference (3), Chapter 71-13-01, Page Block 201.
- (2) Remove any thermal anti-ice regulator valve within the serial numbers shown in the Effectivity paragraph. Refer to Reference (3), Chapter 30-22-51.
- (3) Install the replacement valve with a serial number higher than 191. Refer to Reference (3), Chapter 30-22-51.
- (4) Close the fan cowl doors. Refer to Reference (3), Chapter 71-13-01, Page Block 201.
- (5) Return the removed valve to the vendor as specified in reference (2).
- (6) Record in the Engine Log Book that this Service Bulletin has been incorporated.

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SPRING REPLACEMENT FOR ANTI-ICE VALVES RYLB 52192-2 AND RYLB 52192-3 TO IMPROVE PRODUCT RELIABILITY.

## PLANNING INFORMATION

### 1. Effectivity

The effectivity is for all anti-ice regulator valves RYLB 52192-2 and RYLB 52192-3, with serial numbers 20 through 191, used on the McDonnell Douglas MD90/V2500 aircraft. All RYLB 52192-2 and RYLB 52192-3 valves returned to Barber-Colman will be reworked as detailed in this Service Bulletin. The reworked valve will have a suffix "A" stamped after the serial number.

### 2. Reason for Change

To introduce improved processing of subject springs which includes shot peened surfaces. This processing will improve the fatigue properties of the springs.

### 3. Description

The quality of the AP4-41 spring, specified in the reference regulator valve assembly RYLB721-2 and RYLB721-3, has been improved to increase the reliability of the valve.

The quality of the AP4-88 spring, specified in the actuator section of the RYLB 52192-2 and RYLB 52192-3 valve, includes improvements which increase the reliability of the valve.

### 4. Approval

This Service Bulletin RYLB52192-2/30-2 has been shown to comply with the appropriate federal airworthiness regulations and is FAA approved for those units listed in this Service Bulletin.

### 5. Compliance

This Service Bulletin will be incorporated on valves with serial numbers 20 through 191. This change is highly recommended by the OEM as the preferred configuration for all units. All units returned to Barber-Colman for other repairs will have the springs replaced as warranty items.

### 6. Manpower Required to Accomplish Change

Mean Man Hours to complete the replacement of springs at Barber-Colman is 3 hours.



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## 7. Material - Cost and Availability

Table 1. Material Cost and Availability

MATERIALS	PRICE	LEADTIME	SOURCE OF SUPPLY
AP4-41 AP4-88	N/A	Stock to 8 Weeks	Barber-Colman Company

## 8. Tooling Required

No special tooling is required.

## 9. Weight and Balance

Weight and balance are not affected.

## 10. Electrical Load Data

No change in loading.

## 11. Software Accomplishment Summary

Not applicable.

## 12. References

Reference Component Maintenance Manual ATA 30-28-51 for RYLB 52192-2 and RYLB 52192-3.

Reference the latest issue of IAE Service Bulletin V2500-NAC-30-0001.

## 13. Other Publications Affected by Bulletin

The Component Maintenance Manual affected by this bulletin is ATA 30-28-51 for RYLB 52192-2 and -3. The Service Bulletin List is affected. A manual revision will be distributed.

## 14. ACCOMPLISHMENT INSTRUCTIONS

Not Applicable.