



**International  
Aero Engines**

V2500 Propulsion System — Nacelle

# **SERVICE BULLETIN**

**NACELLE — POWERPLANT — LATCH BRACKET, NO. 1, LOWER, THRUST REVERSER —  
REPLACEMENT OF**

**MODEL APPLICATION**

**V2500-D5**

**BULLETIN INDEX LOCATOR**

**78-00-00**

**Compliance Category Code**

**7**

**Internal Reference No.**

**JG 97VN928**

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## 1. Planning Information

### A. Effectivity

- (1) Airplane: MD90
- (2) Nacelle: V2500-D5 thrust reverser serial numbers 0021001 through 0443001.

### B. Reason

#### (1) Condition

The current clamping design of the lower thrust reverser No. 1 latch bracket installation can potentially prevent the bracket from easily rotating through the full range of travel.

#### (2) Background

No in-service problems have been reported by operators. This is a product improvement change only.

#### (3) Objective

To eliminate the possibility of binding of the lower thrust reverser No. 1 latch bracket by introducing a new bracket and bushings.

#### (4) Substantiation

Production incorporation of the new bracket and bushings has proven successful.

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(5) Impact of the Bulletin on Workshop Procedures:

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

(6) Supplemental Information

None.

C. Description

The change introduced by this Bulletin is as follows:

The lower thrust reverser No. 1 latch bracket and bushings are removed and replaced with the new parts.

D. Approval

The part number changes and/or part modifications described in Paragraphs 2 and 3 of this Service Bulletin have been shown to comply with the applicable Federal Aviation Regulations and are FAA approved for the equipment model(s) listed.

E. Compliance

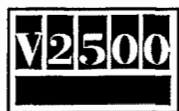
Category 7

Accomplish when the supply of superseded parts has been depleted.

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F. Manpower

Not applicable.

G. Material Cost and Availability

None. Parts are available as single line items.

H. Tooling Cost and Availability

None required.

I. Weight and Balance

(1) Weight change ..... None

(2) Moment arm ..... No effect

(3) Datum ..... Engine Front Mount Centerline  
.....(Powerplant Station PPS 100.00)

J. Electrical Load Data

Not affected.

K. Reference

Chapter/Section

IAE V2500 Standard Practices/Processes  
Manual (SPP-V2500-1IA)

70-09-00

Overhaul Processes and Consumable Index  
(PCI-V2500-1IA)

MD-90 Aircraft Maintenance Manual

78-32-00

L. Other Publications Affected

MD90/V2500D5 Thrust Reverser Component  
Maintenance Manual (CMM-TR-V2500-3IA)

78-32-00

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## **2. Accomplishment Instructions**

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

- (1) Open the thrust reverser halves. Refer to the MD-90 Aircraft Maintenance Manual, Chapter 78-32-00, Page block 201.

- B. Remove nut, bolt, washers, 290-0287-503 bushings, and the 290-0281-507 (290-0287-508) bracket. Discard the bushings and the bracket. Refer to Figure 1.

- C. Install the 290-0281-511 (290-0281-512) bracket, 290-0287-505 bushings, the washers, bolt, and the nut. Torque the nut to 450-500 lbin (50.8-56.5 Nm). Refer to Figure 2.

### **D. Post-requisite Instructions**

- (1) Close the thrust reverser halves. Refer to the MD-90 Aircraft Maintenance Manual, Chapter 78-32-00, Page block 201.

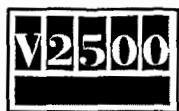
### **E. Recording Instructions**

- (1) A record of accomplishment is necessary. Write in the applicable records and metal stamp, electroetch, or vibroetch on the thrust reverser data plate that Service Bulletin V2500-NAC-78-0157 has been done. Refer to the IAE V2500 Standard Practices/Processes Manual, Chapter 70-09-00.

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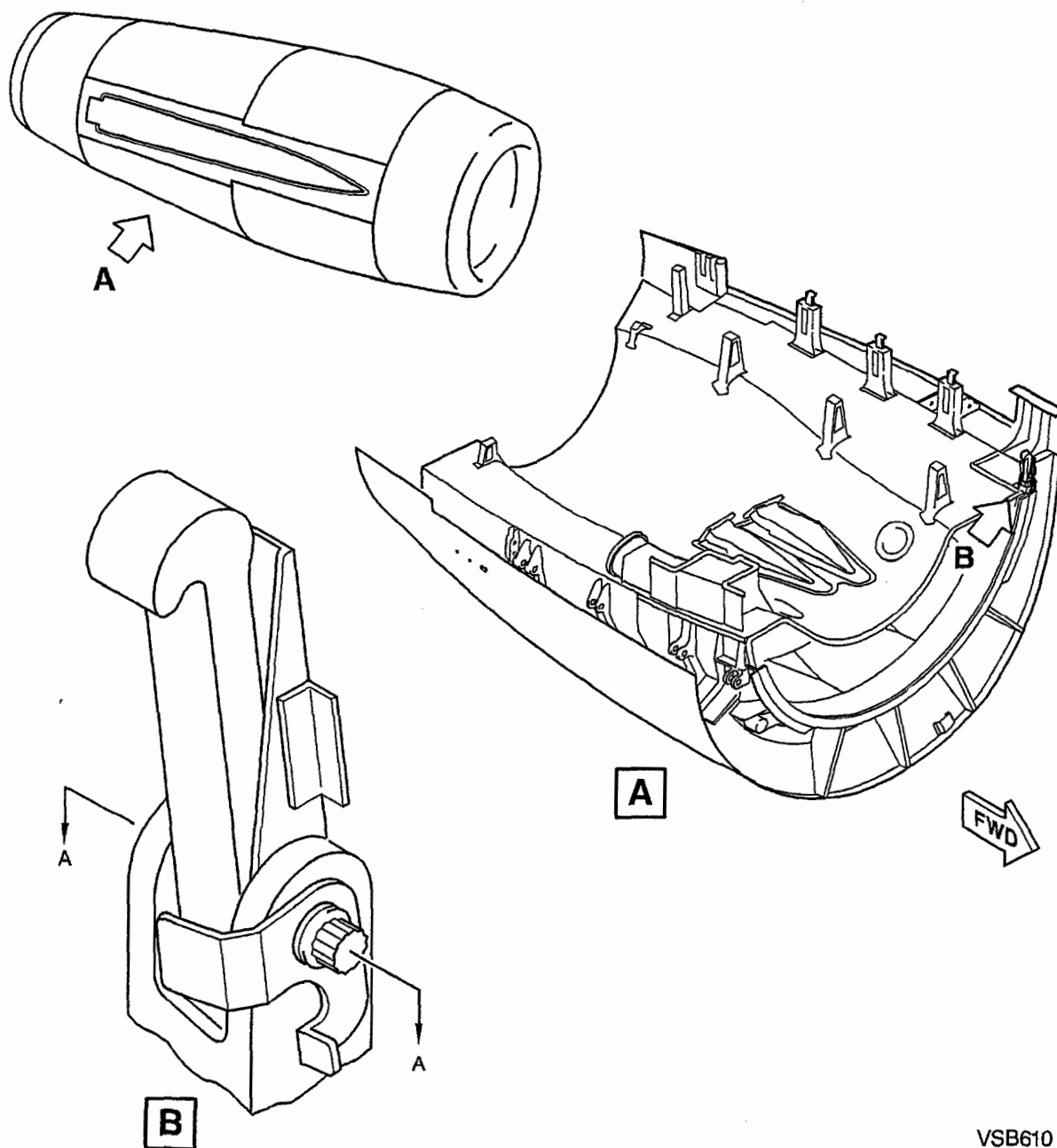
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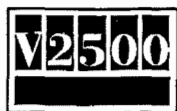
VSB610

Lower Thrust Reverser No. 1 Latch Bracket Replacement  
Figure 1 (Sheet 1)

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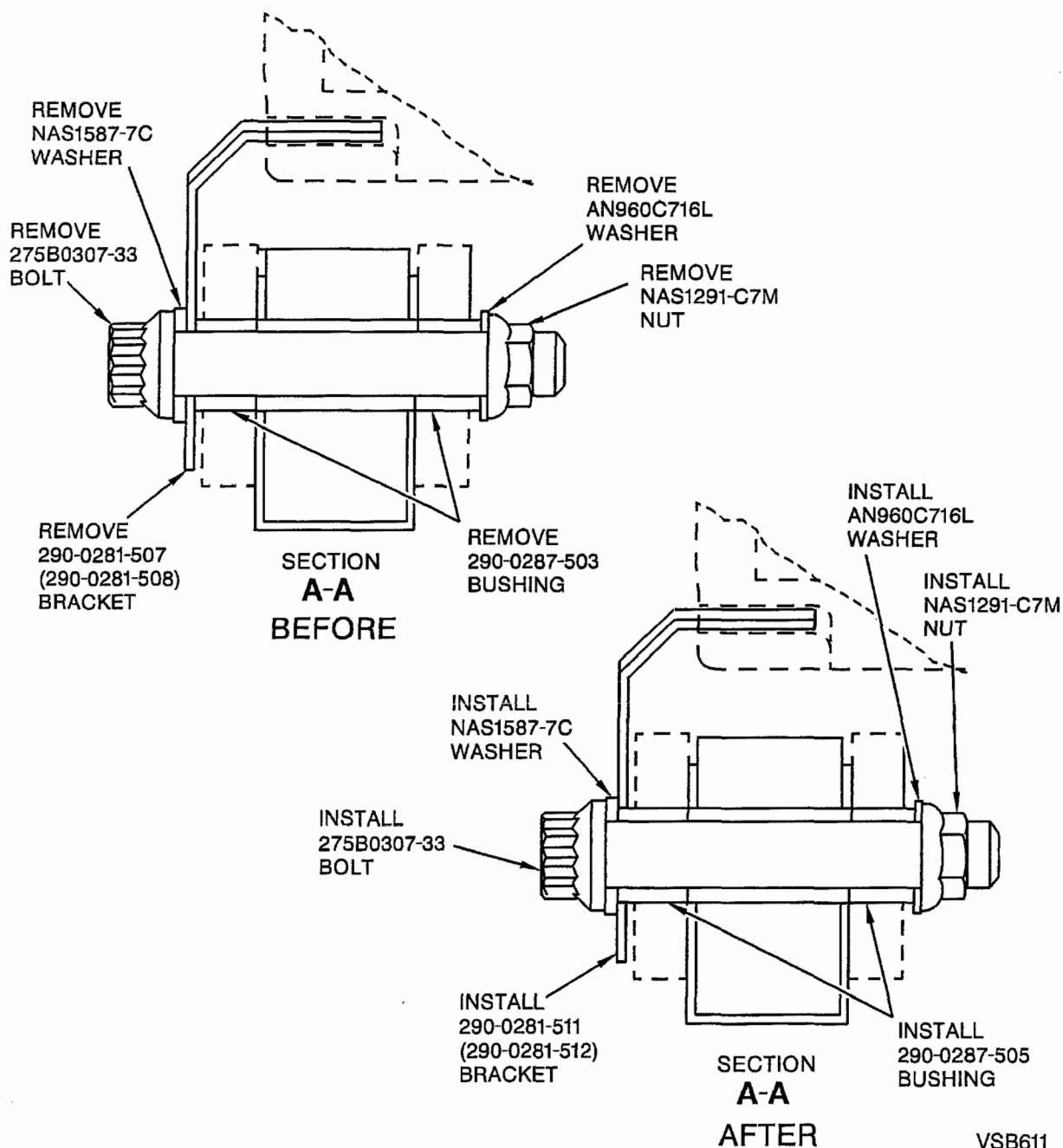
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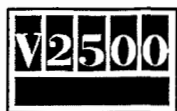
VSB611

Lower Thrust Reverser No. 1 Latch Bracket Replacement  
Figure 1 (Sheet 2)

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## 3. Material Information

**Applicability:** For each MD-90 thrust reverser to incorporate this Bulletin.

A. Kits associated with this Bulletin:  
None.

B. Parts Affected by this Bulletin:

<u>NEW PART NO.</u> <u>(ATA NO.)</u>	<u>QTY</u>	<u>EST'D UNIT</u> <u>PRICE</u>	<u>KEYWORD</u>	<u>OLD PART NO.</u> <u>(IPC NO.)</u>	<u>INSTR/</u> <u>DISPOS</u>
290-0287-505 (78-32-13)	2		Bushing, Clamp Up	290-0287-503 (02-020)	(A)(B) (S1)
290-0281-511 (78-32-13)	1		Bracket	290-0281-507 (02-035)	(A)(B) (S1)
290-0281-512 (78-32-13)	1		Bracket	290-0281-508 (02-036)	(A)(B) (S1)

C. Instruction/Disposition Code Statements

(A) New part is currently available.

(B) Old part will no longer be available.

(S1) New and old parts coded (S1) must be used in complete sets.

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