

International
Aero Engines

V2500 Propulsion System — Nacelle

SERVICE BULLETIN

Date: Sep. 20/96

Subject: Transmittal of Revision 2 to Service Bulletin Number
V2500-NAC-24-0012

Service Bulletin Revision History:

<u>Event</u>	<u>Date</u>
Basic Issue	Dec. 18/95
Revision 1	Jan. 16/96
Revision 2	Sep. 20/96

Reasons for Issuance of Revision

(1) To change the effectivity of this Service Bulletin.

Effect on Past Compliance

None

List of Effective Pages:

<u>Page No.</u>	<u>Rev. No.</u>	<u>Date</u>
1 and 2	2	Sep. 20/96
3 to 8	Basic	Dec. 18/95

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Transmittal

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**NACELLE - ELECTRICAL POWER - VARIABLE SPEED CONSTANT FREQUENCY (VSCF)
GENERATOR, REPLACEMENT OF**

MODEL APPLICATION

V2500-D5

BULLETIN INDEX LOCATOR

24-00-00

Compliance Category Code

4

Internal Reference No.

JG/AC 95VN353

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1. Planning Information

A. Effectivity

- (1) Aircraft: MD90
- (2) Nacelle: V2500-D5
- (3) Unit: Engine buildup units with serial numbers 0022001 thru 0053001.

B. Reason

(1) Condition

Unreliability of the 28B527-4 VSCF generator has been experienced by the operators.

(2) Background

The 28B527-4 VSCF generator may not meet maintainability and reliability requirements.

(3) Objective

To provide a reliable VSCF generator.

(4) Substantiation

Reliability tests of the 28B527-6 VSCF generator have been successful.

(5) Impact of Bulletin on Workshop Procedures

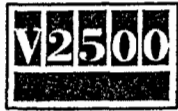
Removal/Installation	Affected
Disassembly/Assembly	Not Affected
Cleaning	Not Affected
Inspection/Repair	Not Affected
Repair	Not Affected
Testing	Not Affected

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(6) Supplemental Information

None

C. Description

The change introduced by this bulletin removes the thermal shield and the 28B527-4 VSCF generator and installs the 28B527-6 VSCF generator. The 28B527-6 VSCF generator does not require a thermal shield. The thermal shield is retained for other 28B527-4 VSCF generator installations.

D. Approval

Incorporation of this Service Bulletin must be accomplished only in conjunction with Douglas Aircraft Company Service Bulletin MD90-24-012 which has received exclusive FAA approval for MD-90 Series aircraft.

E. Compliance

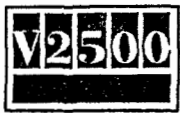
Category 4

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

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F. Manpower

Estimated manhours to incorporate the full intent of this Bulletin:

VENUE

ESTIMATED MANHOURS

(1) In Service

(a) To gain access	0.6 M/Hrs
(b) To embody	3.0 M/Hrs.
(c) To return nacelle to service	<u>0.6 M/Hrs</u>
Total	4.2 M/Hrs

G. Material Cost and Availability

None required.

H. Tooling Cost and Availability

None required.

I. Weight and Balance

- (1) Weight change -2.0 pounds
- (2) Moment arm no effect
- (3) Datum Engine front mount centerline
powerplant station PPS 100

J. Electrical Load Data

Not affected.

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K. References

Chapter/Section

MD-90 Aircraft Maintenance Manual

24-21-25
71-13-00

Douglas Aircraft Company Service
Bulletin MD90-24-012

AlliedSignal Canada Incorporated
Service Bulletin 28B527-24-135

L. Other Publications Affected

MD-90 Engine Illustrated Parts Catalog
(S-V2500-3IA)

24-21-25
24-21-46

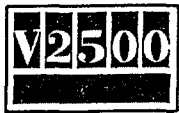
MD-90 Power Plant Buildup Manual
(PPB-V2500-3IA)

71-00-02

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2. Accomplishment Instructions

A. Prerequisite Instructions

Open the fan cowl doors. Refer to the MD-90 Aircraft Maintenance Manual, Chapter 71-13-00, page block 201.

B. Modification Instructions

- (1) Remove the 28B527-4 VSCF generator and 1B270-1 thermal shield. Refer to the MD-90 Aircraft Maintenance Manual, Chapter 24-21-25, page block 401. Retain the 1B270-1 thermal shield and VSCF generator ground terminal hardware for other 28B527-4 VSCF generator installations.
- (2) Install the 28B527-6 VSCF generator. Install the ground terminal hardware as shown on the 28B527-6 VSCF generator data plate. Do not install the 1B270-1 thermal shield. Retain the 1B270-1 thermal shield for other 28B527-4 VSCF installations. Refer to the MD-90 Aircraft Maintenance Manual, Chapter 24-21-25, page block 401.

C. Post Requisite Instructions

Close the fan cowl doors. Refer to the MD-90 Aircraft Maintenance Manual, Chapter 71-13-00, page block 201.

D. Recording Instructions

A record of accomplishment is necessary. Write in applicable records that Service Bulletin V2500-NAC-24-0012 has been done.

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3. Material Information

Applicability: For each V2500 nacelle to incorporate this Bulletin.

A. Kits associated with this Bulletin:

None.

B. Parts affected by this Bulletin:

Part 1: Pre IAE Service Bulletin V2500-NAC-24-0010.

<u>NEW PART NO</u> <u>(ATA NO)</u>	<u>QTY</u>	<u>EST'D</u> <u>UNIT</u> <u>PRICE</u>	<u>KEYWORD</u>	<u>OLD PART NO</u> <u>(IPC NO)</u>	<u>INSTR/</u> <u>DISPOS</u>
28B527-6 (24-21-25)	1		. Generator, VSCF	28B527-4 (01-010)	(S1)
- - - (24-21-25)	1		. Shield, Thermal	1B270-1 (05-010)	(B)(S1)
MS35338-14U (24-21-46)	1		. Washer	- - - (01-029)	(A)(S1)
- - - (24-21-46)	2		. Washer	AN960C516L (01-030)	(C)(S1)
AN960C516L (24-21-46)	1		. Washer	- - - (01-030)	(A)(S1)
NAS1005-12A (24-21-46)	1		. Bolt	NAS6405U12 (01-031)	(A)(S1)
61-17985D3-00 (24-21-46)	1		. Spacer	S700S1258T5-050 (01-032)	(A)(S1)

Part 2: Post IAE Service Bulletin V2500-NAC-24-0010.

<u>NEW PART NO</u> <u>(ATA NO)</u>	<u>QTY</u>	<u>EST'D</u> <u>UNIT</u> <u>PRICE</u>	<u>KEYWORD</u>	<u>OLD PART NO</u> <u>(IPC NO)</u>	<u>INSTR/</u> <u>DISPOS</u>
28B527-6 (24-21-25)	1		. Generator, VSCF	28B527-4 (01-010)	(S1)

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<u>NEW PART NO</u> <u>(ATA NO)</u>	<u>QTY</u>	<u>EST'D</u> <u>UNIT</u> <u>PRICE</u>	<u>KEYWORD</u>	<u>OLD PART NO</u> <u>(IPC NO)</u>	<u>INSTR/</u> <u>DISPOS</u>
- - - (24-21-25)	1		. Shield, Thermal	1B270-1 (05-010)	(B)(S1)
MS35338-14U (24-21-46)	1		. Washer	- - - (01-029)	(A)(S1)
- - - (24-21-46)	2		. Washer	AN960C516L (01-030)	(C)(S1)
AN960C516L (24-21-46)	1		. Washer	- - - (01-030)	(A)(S1)
NAS1005-12A (24-21-46)	1		. Bolt	NAS6405U16 (01-031)	(A)(S1)
61-17985D3-00 (24-21-46)	1		. Spacer	S700S1258T5-050 (01-032)	(A)(S1)

C. Instructions/Dispositions Code Statements:

- (A) Parts are supplied with the 28B527-6 VSCF generator.
- (B) Old part will no longer be available.
- (C) Quantity reduced from two to one.
- (S1) Old and new parts must be fitted as a set. Mixing old and new parts is not permissible.

NOTE: The estimated 1995 unit prices shown are provided for planning purposes only and do not constitute a firm quotation. Consult the Rohr Price Catalog or contact Rohr's Customer Support Department for information concerning firm prices.

D. Consumables Required to Incorporate This Bulletin:

None.

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