



International
Aero Engines

V2500 Propulsion System — Nacelle

SERVICE BULLETIN

SB No. V2500-NAC-24-0006

Revision No. 1

Subject: Nacelle Service Bulletin No. V2500-NAC-24-0006

Revision No. 1, dated May 15, 1995

This is a partial revision. Please insert the attached pages into your copy of the Bulletin. Destroy the superseded pages so that the resultant contents are in accordance with following list of effective pages.

<u>Page No.</u>	<u>Revision No.</u>	<u>Date</u>
1 and 3	1	May 15, 1995
2, 4 thru 11	Basic	March 3, 1995

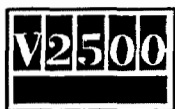
NOTE: A copy of this notice should be filed as a permanent record with each copy of Service Bulletin revision and with any future revisions.

Reason for Revision

Revise Douglas Aircraft Company service bulletin reference in approval statement.

Effect on prior compliance

None.



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**NACELLE - ELECTRICAL POWER - POWER FEEDER HARNESSSES, VARIABLE SPEED
CONSTANT FREQUENCY (VSCF) -SHIELDING OF**

MODEL APPLICATION

V2500-D5

BULLETIN INDEX LOCATOR

24-00-00

Compliance Category Code

3

Internal Reference No.

LL/AC 94VN408/A

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1. Planning Information

A. Effectivity

- (1) Aircraft: MD90
- (2) Nacelle: V2500-D5 Quick Engine Change (QEC) Kits serial numbers 0025002 and 0025003.

B. Reason

(1) Condition

Potential loss of aircraft VSCF master control unit due to lightning strike.

(2) Background

Existing VSCF master control unit in aircraft unable to accept an indirect lightning strike greater than 600 volts.

(3) Objective

Replace existing left hand engine and right hand engine VSCF power feeder harnesses with shielded VSCF harnesses and replace associated support hardware.

(4) Substantiation

New shielded harnesses were substantiated by analysis.

(5) Impact of 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

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(6) Supplemental Information

None.

C. Description

The change introduced by this Bulletin is to replace VSCF power feeder harnesses and their associated support hardware.

D. Approval

Incorporation of this Service Bulletin must be accomplished only in conjunction with Douglas Aircraft Company Service Bulletin MD90 24-002 which has received exclusive FAA approval for MD-90 Series aircraft.

E. Compliance

Category 3

Accomplish prior to revenue service.

F. Manpower

Estimated Manhours to incorporate the full intent of this Bulletin:

VENUE

ESTIMATED MAN HOURS

(1) In Service

(a) To rework

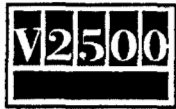
0.5 M/Hrs

Total 0.5 M/Hrs

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G. Material Cost and Availability

The parts to accomplish this Service Bulletin are available from the supplier as kit V2524006-555 and V2524006-557 at no cost to the operator.

Operators with units listed in Paragraph 1.A should submit a no-charge purchase order for the applicable quantity of kits. The purchase order must specify this service bulletin number and only the parts listed herein. Operators will have one year from the issue date of the Service Bulletin to place an order. After one year, kits will no longer be available and Operators will have to order parts individually at catalog prices, if they desire to incorporate the change.

Direct Purchase order to:

Rohr Inc.

P.O. Box 878

Chula Vista, CA 91912

U.S.A.

Attn: Manager, Spares Operations - Bldg. 107A
(Ref. Service Bulletin No V2500-NAC-24-0006)

H. Tooling Cost and Availability

Not applicable.

I. Weight and Balance

- (1) Weight changeNo effect
- (2) Moment armNo effect
- (3) DatumFront Engine Mount Centerline
.....(Power Plant Station (PPS) 95.1)

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J. Electrical Load Data

Not affected.

K. Reference

Chapter/Section

MD90 Aircraft Maintenance
Manual

24-21-46

L. Other Publications Affected

MD90 Engine Illustrated Parts
Catalog

24-21-46
29-11-49

MD90 Powerplant Buildup Manual

71-00-02

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2. Accomplishment Instructions

A. Prerequisite Instructions

None.

B. Rework or Modification Instructions (For Installed 290K9001-1 QEC Kit)

NOTE: Parts in kit V2524006-555 are used for installation of VSCF power feeder harness. VSCF power feeder harness is not part of 290K9001-1 QEC kit, but parts necessary for installation of VSCF power feeder harness are contained in QEC kit. It is thought that these parts are not installed on QEC kit but safely kept for installation at a later time.

- (1) Replace TA12700020 clamp and three TA12700021 clamps with contents from kit V2524006-555.
- (2) Keep for installation of QEC kit on aircraft. Refer to MD90 Aircraft Maintenance Manual, Chapter 24-21-46.

C. Post-requisite Instructions

None.

D. Quick Engine Change (QEC) Kit (Not Installed 290K9001-3 QEC Kit)

- (1) Open 290K9001-3 QEC kit container.
- (2) Remove TA12700020 clamp, two TA12700021 clamps, six 11524 clamps, 290W5210-501 Harness, 290-5091-509 bracket, 290-5218-519 bracket, 290-5218-523 bracket, and 290-5218-535 bracket from QEC kit container.
- (3) Put contents of kit V2524006-557 in QEC kit container.

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(4) Close QEC kit container.

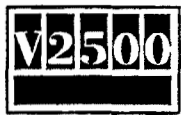
E. Recording Instructions

A Record of Accomplishment is necessary. Write in engine log or QEC Kit log that Service Bulletin V2500-NAC-24-0006 has been done.

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3. Material Information

Applicability: For left and right hand V2500-D5 Quick Engine
Change (QEC) Kit to incorporate this Bulletin.

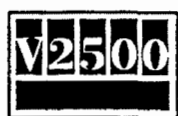
A. Kits associated with this Bulletin:

<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>
V2524006-555 (LH QEC Kit)	1		Kit		(A)
Consisting of:					
TA12700025	1		Clamp		
TA12700026	4		Clamp		
NAS6405U12	1		Bolt		
S700S1258T5-050	1		Spacer		
AN960C516L	2		Washer		
 V2524006-557 (RH QEC Kit)	 1		 Kit		 (A)
Consisting of:					
290W5210-503	1		Harness Assy		
290-5218-563	1		Bracket Assy		
290-5218-565	1		Bracket Assy		
290-5218-561	1		Bracket Assy		
290-5091-513	1		Bracket Assy		
290-5014-503	1		Cover		
TA12700025	1		Clamp		
TA12700026	3		Clamp		
TA30500632	6		Clamp		
S700B1327-4-5	2		Bolt		
S700B1327-4-4	4		Bolt		
S700S1258T5-050	1		Spacer		
MS35338-139	4		Spring Washer		
NAS1149C0432R	4		Washer		

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NEW PART NO (ATA NO)	QTY	EST'D UNIT PRICE	KEYWORD	OLD PART NO (IPC NO)	INSTR/ DISPOS
S700W1352-4	6		Washer		
AN960C516L	2		Washer		
NAS1805-4	4		Nut		
NAS6405U12	1		Bolt		
MS35650-3254	4		Nut		
TA028008-10	2		Clamp		

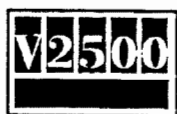
B. Parts affected by this Bulletin:

NEW PART NO (ATA NO)	QTY	EST'D UNIT PRICE	KEYWORD	OLD PART NO (IPC NO)	INSTR/ DISPOS
NAS6405U12 (24-21-46)	1		Bolt	--- (01-031) (02-024)	(B)(S1)
S700S1258T5-050 (24-21-46)	1		Spacer	- - - (01-032) (02-025)	(B)(S1)
TA12700025 (24-21-46)	1		Clamp	TA12700020 (01-062) (02-034)	(B)(S1) (1D)
TA12700026 (24-21-46)	1		Clamp	TA12700021 (01-102) (01-112) (01-122) (01-242) (02-052) (02-204) (02-211)	(B)(S1) (1D)
AN960C516L (24-21-46)	2		Washer	- - - (01-030) (02-023)	(B)(S1)
290W5217-503 (24-21-46)	1		Harness	290W5217-501 (01-010)	(C)

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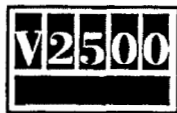
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NEW PART NO (ATA NO)	QTY	EST'D UNIT PRICE	KEYWORD	OLD PART NO (IPC NO)	INSTR/ DISPOS
290-5014-503 (24-21-46)	1		Cover	- - - (02-006)	(B)(S1)
NAS1802-4-14 (24-21-46)	2		Bolt	- - - (02-009)	(C)
MS9362-10 MS35650-3254 (24-21-46)	4 ALT		Nut	- - - (02-029)	(B)(S1)
AN960C416L (24-21-46)	4		Washer	- - - (02-027)	(C)
MS35338-139 (24-21-46)	4		Washer	- - - (02-028)	(B)(S1)
NAS1805-4 (24-21-46)	4		Nut	- - - (02-026)	(B)(S1)
S700B1327-4-4 (24-21-46)	2		Bolt	- - - (02-007) (06-314)	(B)(S1)
S700W1352-4 (24-21-46)	2		Washer	- - - (02-008)	(B)(S1)
TA028008-10 (24-21-46)	2		Clamp	- - - (02-452)	(B)(S1)
TA30500632 11870 (24-21-46)	1 ALT		Clamp	11524 (02-072) (02-092) (02-112) (01-132) (02-152) (02-172)	(B)(S1) (1D)
290W5216-503 (24-21-46)	1		Harness	290W5216-501 (02-200)	(C)
290W5210-503 (24-21-46)	1		Harness	290W5210-501 (02-030)	(B)(S1) (2D)
290-5218-563 (24-21-46)	1		Bracket	290-5218-519 (06-290)	(B)(S1) (2D)
290-5218-565 (24-21-46)	1		Bracket	290-5218-523 (06-310)	(B)(S1) (2D)

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NEW PART NO (ATA NO)	QTY	EST'D UNIT PRICE	KEYWORD	OLD PART NO (IPC NO)	INSTR/ DISPOS
290-5218-561 (24-21-46)	1		Bracket	290-5218-535 (06-320)	(B)(S1) (2D)
S700W1352-4 (24-21-46)	4		Washer	- - - (06-312)	(B)(S1)
S700B1327-4-5 (24-21-46)	2		Bolt	--- (06-316)	(B)(S1)
290-5091-513 (29-11-49)	1		Bracket	290-5091-509 (12-160)	(B)(S1) (2D)

C. Instructions/Disposition Code Statements:

- (A) Kit will be available February 1995.
- (B) Part supplied as a detail of the kit.
- (C) New part will be available as a spare. Not supplied with kit because QEC Kits not affected.
- (1D) Old part may be used in other aircraft installations.
- (2D) Discard old part.
- (S1) New parts must be fitted as a set. Mixing of 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. These materials are to be procured by the Operator or obtained from his stock:

None.

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