



**International
Aero Engines**

V2500 Propulsion System — Nacelle

SERVICE BULLETIN

NACELLE - EXHAUST - BLOCKER DOORS, THRUST REVERSER - INSPECTION/REPAIR

MODEL APPLICATION

V2500-D5

BULLETIN INDEX LOCATOR

78-00-00

Compliance Category Code

4

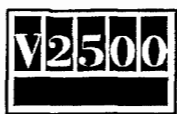
Internal Reference No.

JG/LL 97VN541

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NACELLE - EXHAUST - BLOCKER DOORS, THRUST REVERSER -
INSPECTION/REPAIR

1. Planning Information

A. Effectivity

(1) Aircraft:

(a) MD90

(2) Nacelle: V2500-D5 thrust reverser serial numbers 0093001 thru 0108001, 0113001 thru 0132001, 0149001 thru 0152001, 0157001 thru 0160001, 0163001 thru 0166001, 0185001 thru 0188001, 0193001 thru 0196001, 0201001 thru 0204001, 0209001 thru 0216001, 0218004, 0218005, 0218007, 0218008, 0245001 thru 0248001 and blocker door part numbers 290-0659-505 and 290-0659-506.

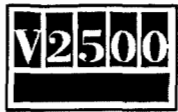
B. Reason

- (1) The springs of two blocker doors with part numbers 290-0659-505 and 290-0659-506 can come loose from the doors.
- (2) The springs of two blocker doors, with part numbers 290-0659-505 and 290-0659-506, were not installed correctly.
- (3) To find the two doors with the incorrectly installed spring fasteners and remove and correctly install the fasteners.
- (4) Substantiation
Not applicable.

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(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

(6) Supplemental Information

None.

C. Description

The change introduced by this Bulletin is as follows:

Examine the blocker doors with part numbers 290-0659-505 and 290-0659-506 for spring fasteners that are not correctly installed. Then remove and properly install any fasteners not correctly installed.

D. Approval

Incorporation of this Service Bulletin must be accomplished only in conjunction with Douglas Aircraft Company Service Bulletin MD-90-78-026 which has received exclusive FAA approval for MD-90 Series aircraft.

E. Compliance

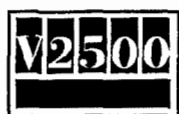
Category Code 4.

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.

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F. Manpower

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

<u>VENUE</u>	<u>ESTIMATED MANHOURS</u>
(1) In Service	
(a) To gain access	0.25 M/hours
(b) To inspect	0.50 M/hours
(c) To return to service	<u>0.25 M/hours</u>
Total	1.00 M/hours

Estimated manhours to incorporate the full intent of this Bulletin for each blocker door that needs repair:

<u>VENUE</u>	<u>ESTIMATED MANHOURS</u>
(1) In Service	
(a) To remove	0.50 M/hours
(b) To repair	0.50 M/hours
(c) To install	<u>0.50 M/hours</u>
Total	1.50 M/hours

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NOTE: After incorporation of this modification, a maximum of 2.0 manhours for labor will be reimbursed by Rohr, as a labor credit allowance for inspection per affected aircraft. A maximum of 1.50 manhours for labor will be reimbursed by Rohr, as a labor credit allowance for the repair of each affected blocker door. To obtain a labor credit allowance, 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-78-0147)

G. Material Cost and Availability

None.

H. Tooling Cost and Availability

Not applicable.

I. Weight and Balance

- (1) Weight change No effect
- (2) Moment arm No effect
- (3) Datum Front Engine Mount Centerline
..... (Power Plant Station (PPS) 100.00)

J. Electrical Load Data

Not affected.

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K. References

Chapter/Section

MD-90 Aircraft Maintenance Manual

78-32-00

78-32-20

L. Other Publications Affected

None.

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2. Accomplishment Instructions

A. For installed thrust reverser blocker doors, move the translating sleeves to the fully deployed position for access to the identification markings on the blocker doors. Refer to the MD90 Aircraft Maintenance Manual, Chapter 78-32-00, Page Block 201.

B. Examine the identification markings on all 290-0659-505 and 290-0659-506 blocker doors (including spare blocker doors). Refer to Figures 1 and 2.

NOTE: You can see the blocker door identification when you look into the thrust reverser from the aft end.

(1) If the blocker door is marked with a date before 11/01/96, and has the name "NC Dynamics" near the assembly part number, you must remove and install the spring as instructed in paragraph C.

(2) If the blocker door markings are other than in (1), no further action is required.

C. Remove and re-install the blocker door springs. Refer to Figure 3.

(1) If necessary, remove the blocker door from the thrust reverser. Refer to the MD-90 Aircraft Maintenance Manual, Chapter 78-32-20, Page block 401.

(2) Remove the rivets and the springs from the blocker door. Do not make the rivet holes larger.

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WARNING: SOLVENT (COMAT 01-438) IS CLASSIFIED AS A HAZARDOUS MATERIAL WHICH MAY CAUSE INJURY OR ILLNESS IF NOT PROPERLY USED. THIS PRODUCT SHOULD BE USED ONLY IN ACCORDANCE WITH THE MANUFACTURER'S SPECIFIC SAFETY AND HEALTH RECOMMENDATIONS. PRIOR TO USE OF THIS PRODUCT, CAREFULLY READ THE APPLICABLE "MATERIAL SAFETY DATA SHEET" AND FOLLOW ALL LISTED SAFETY AND HEALTH PRECAUTIONS.

- (2) Clean the mating surfaces of the blocker door and the springs with a lint free cloth (CoMat 02-099) and solvent (CoMat 01-438). Wipe the surfaces dry before the solvent becomes dry.

WARNING: PRIMER CONVERTER (COMAT 07-115), THINNER (COMAT 07-116), AND PRIMER BASE (COMAT 08-039) ARE CLASSIFIED AS HAZARDOUS MATERIALS WHICH MAY CAUSE INJURY OR ILLNESS IF NOT PROPERLY USED. THESE PRODUCTS SHOULD BE USED ONLY IN ACCORDANCE WITH THE MANUFACTURER'S SPECIFIC SAFETY AND HEALTH RECOMMENDATIONS. PRIOR TO USE OF THESE PRODUCTS, CAREFULLY READ THE APPLICABLE "MATERIAL SAFETY DATA SHEETS" AND FOLLOW ALL LISTED SAFETY AND HEALTH PRECAUTIONS.

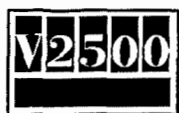
- (3) Mix the primer converter (CoMat 07-115), thinner (CoMat 07-116), and primer base (CoMat 08-039). Refer to the manufacturer's instructions.
- (4) Install the springs on the blocker door with the NAS1921M05S03 rivets. Wet install the rivets with the primer mix. Wipe off any unwanted primer with a lint free cloth (CoMat 02-099) and solvent (01-438).
- (5) If necessary, install the blocker door on the thrust reverser. Refer to the MD-90 Aircraft Maintenance Manual, Chapter 78-32-20, Page block 401.

D. If necessary, move the translating sleeves to the fully stowed position. Refer to the MD90 Aircraft Maintenance Manual, Chapter 78-32-00, Page Block 201.

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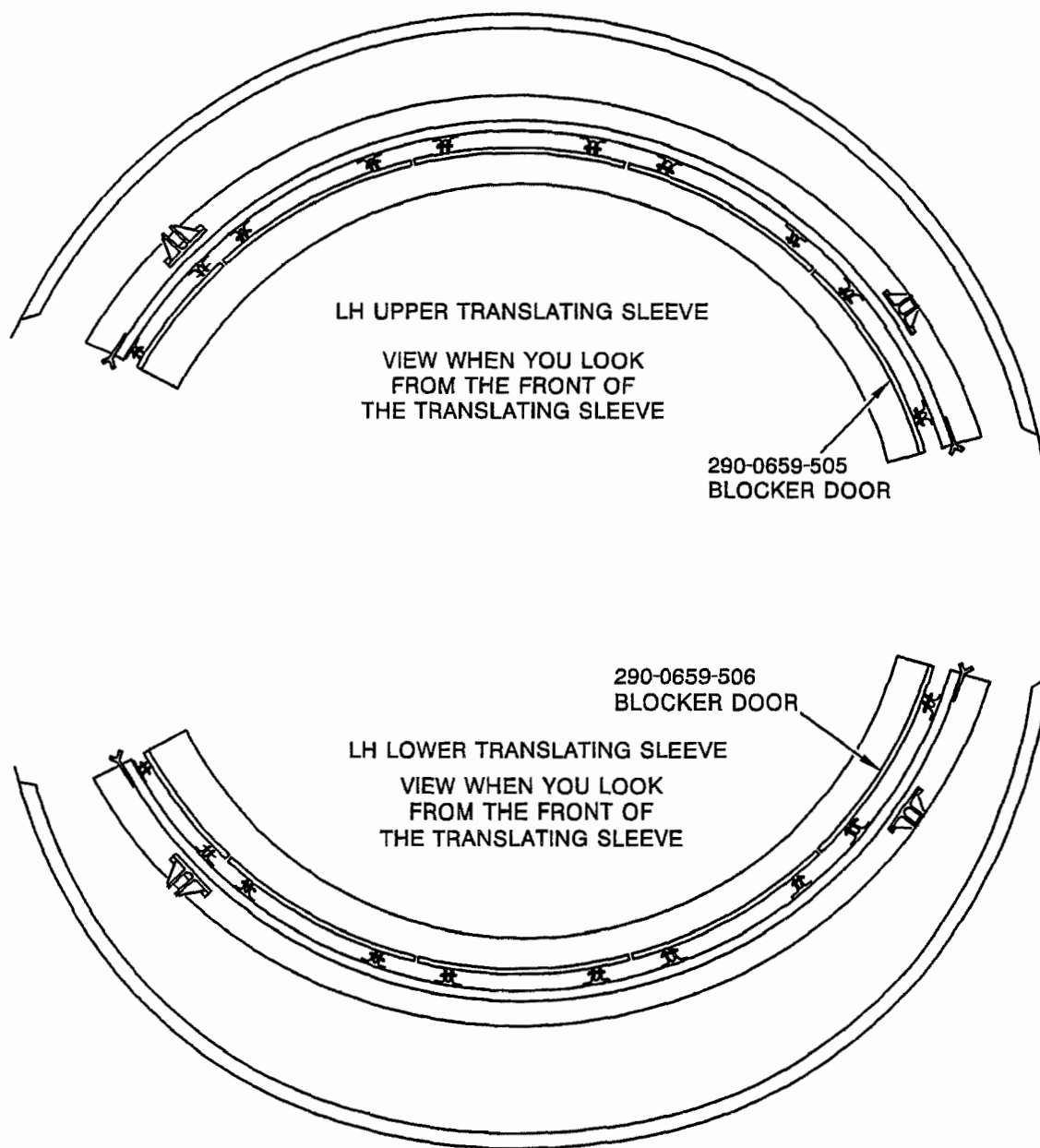
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VSB560

Thrust Reverser Blocker Door Inspection
Figure 1

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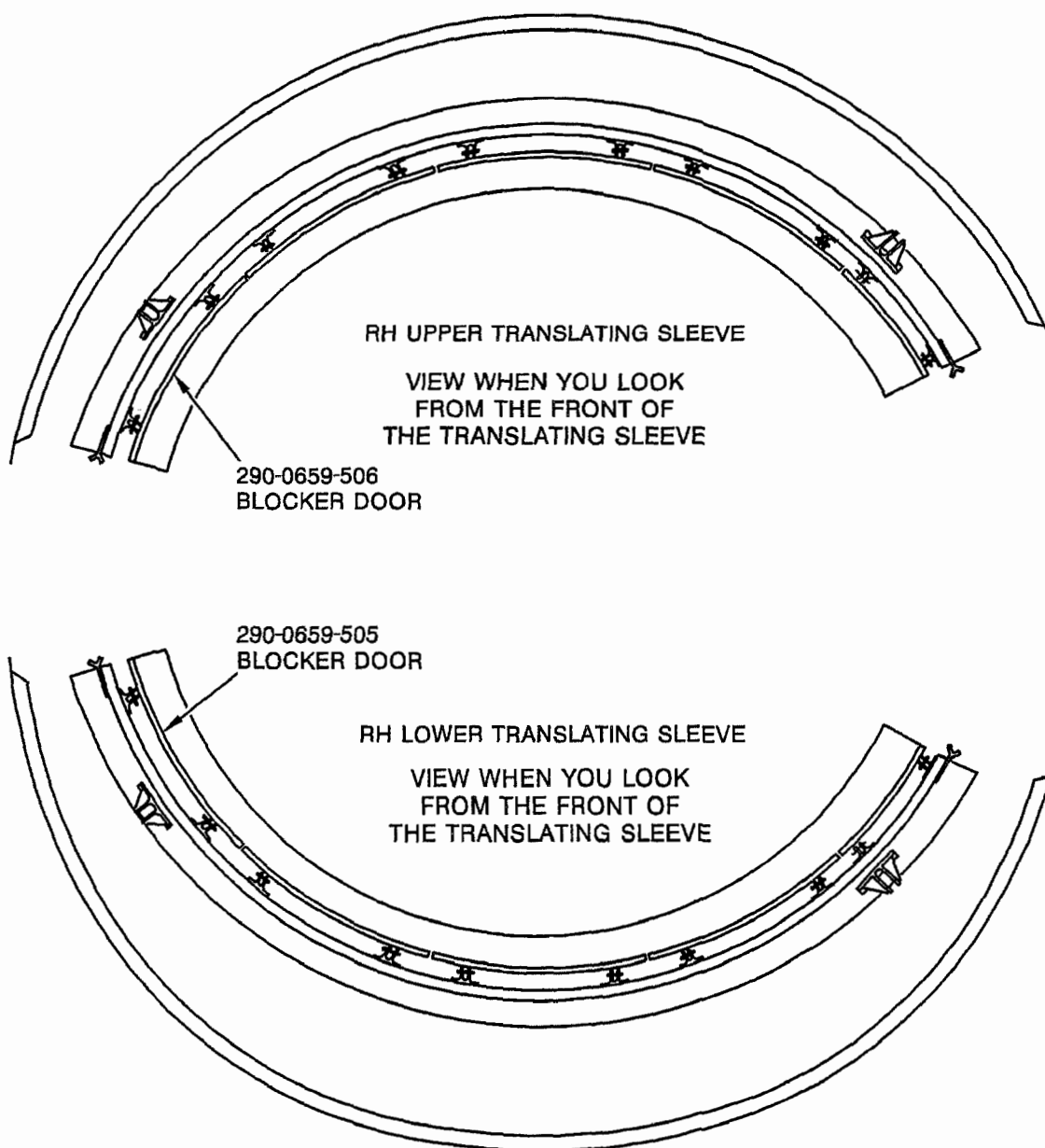
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VSB561

Thrust Reverser Blocker Door Inspection
Figure 2

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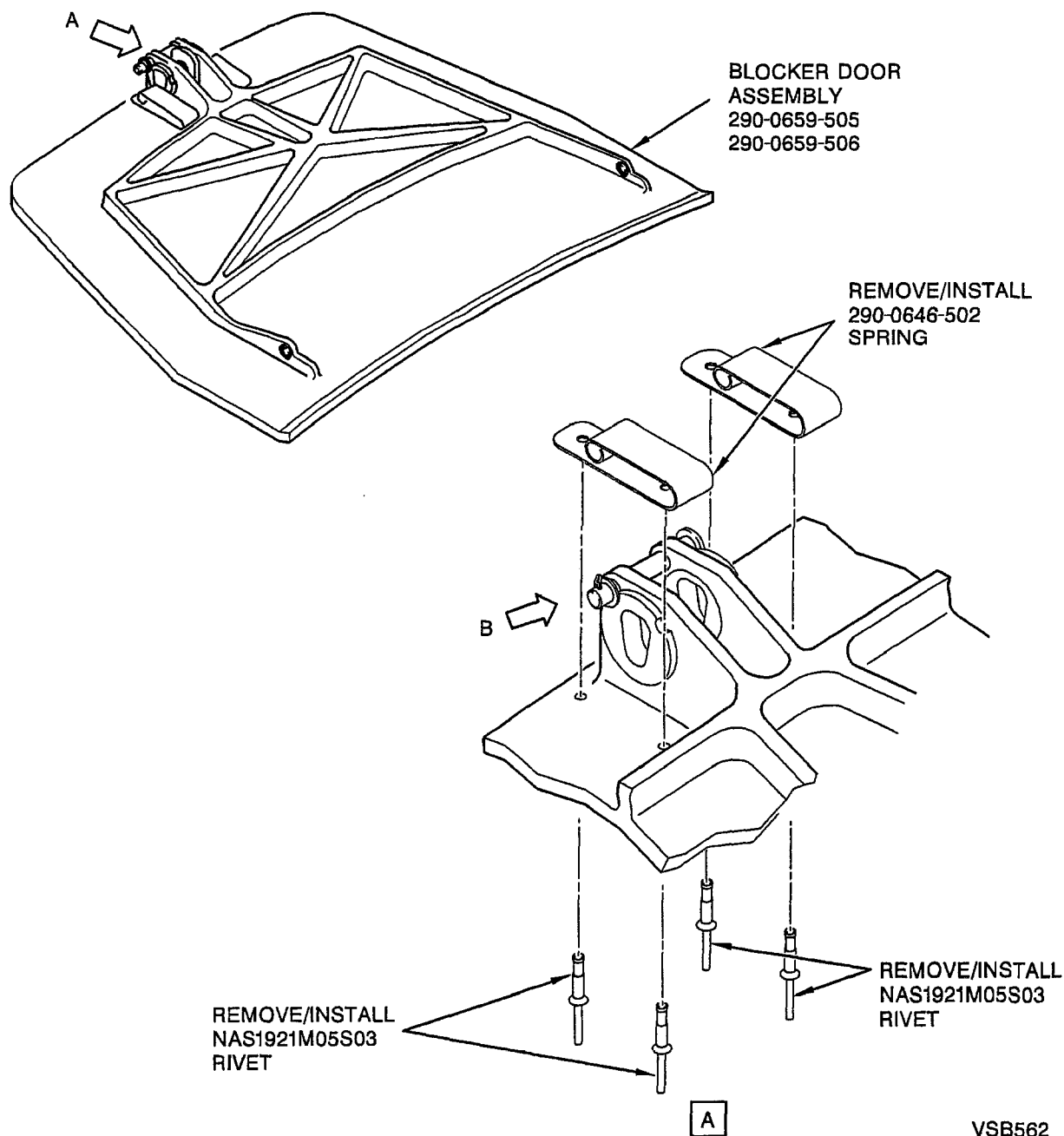
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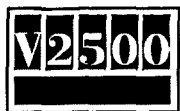
VSB562

Thrust Reverser Blocker Door Spring Removal/Installation
Figure 3

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3. Material Information

Applicability: For each MD-90 aircraft to incorporate this Bulletin.

A. Kits Associated with this Bulletin:

None.

B. Parts Affected by this Bulletin:

None.

C. Instruction/Disposition Code Statements

None.

D. Materials Required to Incorporate this Service Bulletin:

CoMat 01-438	Solvent
CoMat 02-099	Lint Free Cloth
CoMat 07-115	Primer Converter
CoMat 07-116	Thinner
CoMat 08-039	Primer Base

NOTE: To identify the consumable materials, refer to the Overhaul Processes and Consumable Index PCI-V2500-1IA.

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