



SERVICE BULLETIN

OIL - INCORPORATE REVISED NO.4 AND NO.5 BEARING OIL SCAVENGE TUBE ASSEMBLIES -
CATEGORY CODE 3 - MOD.ENG-79-0001

1. Planning InformationA. Effectivity

- (1) Aircraft: Airbus A320
- (2) Engine: V2500-A1 Engine Serial No.s V0014, V0015, V0016 and V0017

B. Reason

(1) Condition

No.4 Scavenge Tube, Diffuser Case to Bifurcation Panel, is too short. This can cause unwanted load to No.4 Scavenge Tube, No.4 Bearing Compartment that may break the No.4 Scavenge Tube.

(2) Background

No.4 Scavenge Tube, No.4 Bearing Compartment has broken on the development engine. After investigation of the cause, it was found that unwanted load was applied to the above Scavenge Tube.

(3) Objective

To get an equal load among the tubes to Bifurcation Panel.

(4) Substantiation

Substantiation is not required.

(5) Effect of Bulletin on the following shop functions:

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

(6) Supplemental Information:

Refer to 2. Accomplishment Instructions.

C. Description

- (1) No.4 Scavenge Tube is lengthened to fit properly.

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- (2) Clamping Points of No.4 Scavenge Tube and No.5 Scavenge Tube are relocated.

D. Approval

The Part Number changes described in Sections 2 and 3 of this Service Bulletin have been shown to comply with the applicable Federal Aviation Regulations and are FAA-APPROVED for the Engine Model listed.

E. Compliance

Category Code 3.

Accomplish prior to revenue service.

F. Manpower

Estimated Manhours to incorporate the full intent of this Bulletin:

Venue	Estimated Manhours
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(1) In Service

- (a) To gain access
- (b) To embody
- (c) To return engine to flyable status

Total:

G. Material Price and Availability

- (1) See Material Information section for parts required to accomplish this Service Bulletin.

H. Tooling - Price and Availability

Special tools are not required

I. Weight and Balance

- | | | | | | |
|-----|---------------|----|----|----|------------------------------------------------------------------|
| (1) | Weight change | .. | .. | .. | None |
| (2) | Moment arm | .. | .. | .. | No effect |
| (3) | Datum | .. | .. | .. | Engine front mount centreline
(Power Plant Station (PPS) 100) |

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J. Electrical Load Data

This Service Bulletin has no effect on the aircraft electrical load.

K. References

- (1) Internal Reference No.

EC88VJ683

- (2) Other References

V2500 Illustrated Parts Catalog

V2500 Engine Maintenance Manual

V2500 Standard Practices/Procedures Manual

Use of Torque Wrenches and Power Tools, IAE Control No.70-41-01

V2500 Facilities Equipment Manual

V2500 Facilities Planning Manual

V2500 Overhaul Processes and Consumables Index

L. Other Publications Affected

- (1) The V2500 Engine Illustrated Parts Catalog, 79-22-49

- (2) The V2500 Engine Manual, 72-00-40, Removal/Installation

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2. Accomplishment Instructions

A. Prerequisite Instructions

- (1) Open the Right Fan Cowl Door (Refer to Engine Maintenance Manual, TASK 71-13-00-010-010).

NOTE: For uninstalled engines (without the Fan Cowls), this step is not applicable.

B. Removal Instructions

- (1) Remove PN 5R8112, No.5 Scavenge Tube (01-500), Figure 2
 - (a) Cut lockwire.
 - (b) Remove bolts, washers, spacers and clips at the clipping positions 5221, 5222, 5223, 5224 and 5225.
 - (c) Loosen nuts of tubes.
 - (d) Remove No.5 Scavenge Tube from the engine.
- (2) Remove PN 5R8111, No.4 Scavenge Tube (03-100), Figure 1
 - (a) Cut lockwire.
 - (b) Loosen nuts of tube (2 off).
 - (c) Remove No.4 Scavenge Tube from the engine.

C. Installation Instructions

- (1) Install PN 5R8139, No.5 Scavenge Tube (01-500), Figure 2
 - (a) Put new No.5 Scavenge Tube in Position on the engine.
 - (b) Torque nuts to 375 to 425 lbfin (42,37 to 48,02 Nm) and safety with CoMat 02-126 lockwire.
 - (c) Install clips, clip nuts, spacers, washers and bolts at the clip positions 5221, 5222, 5223, 5224 and 5225. Torque bolt to 30 lbfin (3,39 Nm).

NOTE: Old No.5 Scavenge Tube was fixed with the clip (01-528). New No.5 Scavenge Tube is fixed at newly added tube lug.
- (2) Install PN 5R8138 No.4 Scavenge Tube (03-100, Figure 1
 - (a) Put a new No.4 Scavenge Tube in position on the engine.

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- (b) Torque nuts to 525 to 625 lbfin (59,32 to 70,61 Nm) and safety with CoMat 02-126 lockwire.

NOTE: Old No.4 Scavenge Tube was fixed to the Raceway (71-52-50, 05-100) at its tube lug. New No.4 Scavenge Tube does not need to be fixed. See Figure 2.

D. Post Requisite Instructions

- (1) Do the Test No.3 Idle Leak Check (Refer to Engine Maintenance Manual, TASK 71-00-00-700-017).
- (2) Close the Right Fan Cowl Door (Refer to Engine Maintenance Manual, TASK 71-13-00-410-010).

E. Recording Instructions

- (1) A record of accomplishment is required.



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3. Material Information

NEW PART NO. (ATA NO.)	QTY	EST'D UNIT PRICE (\$)	KEYWORD	OLD PART NO. (IPC NO.)	INSTRUCTIONS DISPOSITION
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A. Kits associated with this Bulletin:

None

B. Parts affected by this Bulletin:

The following parts are required to accomplish this modification on one V2500 engine

5R8139 (79-22-49)	1	Tube	5R8112 (01-500)	(S1)(A)(B)
4W0115 (79-22-49)	1	Bolt	4W0116 (01-525)	(S1)
5W1086 (79-22-49)	1	Washer	5W1086 (01-526)	(C)
- (79-22-49)	-	Clip	5W1115 (01-528)	(D)
5R8138 (79-22-49)	1	Tube	5R8111 (03-100)	(S1)(A)(B)

C. Instruction/Disposition Code Statements:

- (A) New part is currently available.
- (B) Old part is no longer available for sale.
- (C) Quantity of PN 5W1086 washers decreased from 2 to 1. Discard excess washer.
- (D) Discard removed clips.
- (S1) New part must be used in place of old part.

D. Applicability

- (1) Old tubes, PN 5R8111 and PN 5R8112 to be returned to the following address:

Mr. Sadaaki Takemoto
Jet Engine Division
Kawasaki Heavy Industries, LTD.
1-1, Kawasaki-cho, Akashi
673 JAPAN

E. Consumable Materials

The following consumable materials are required.

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International Aero Engines

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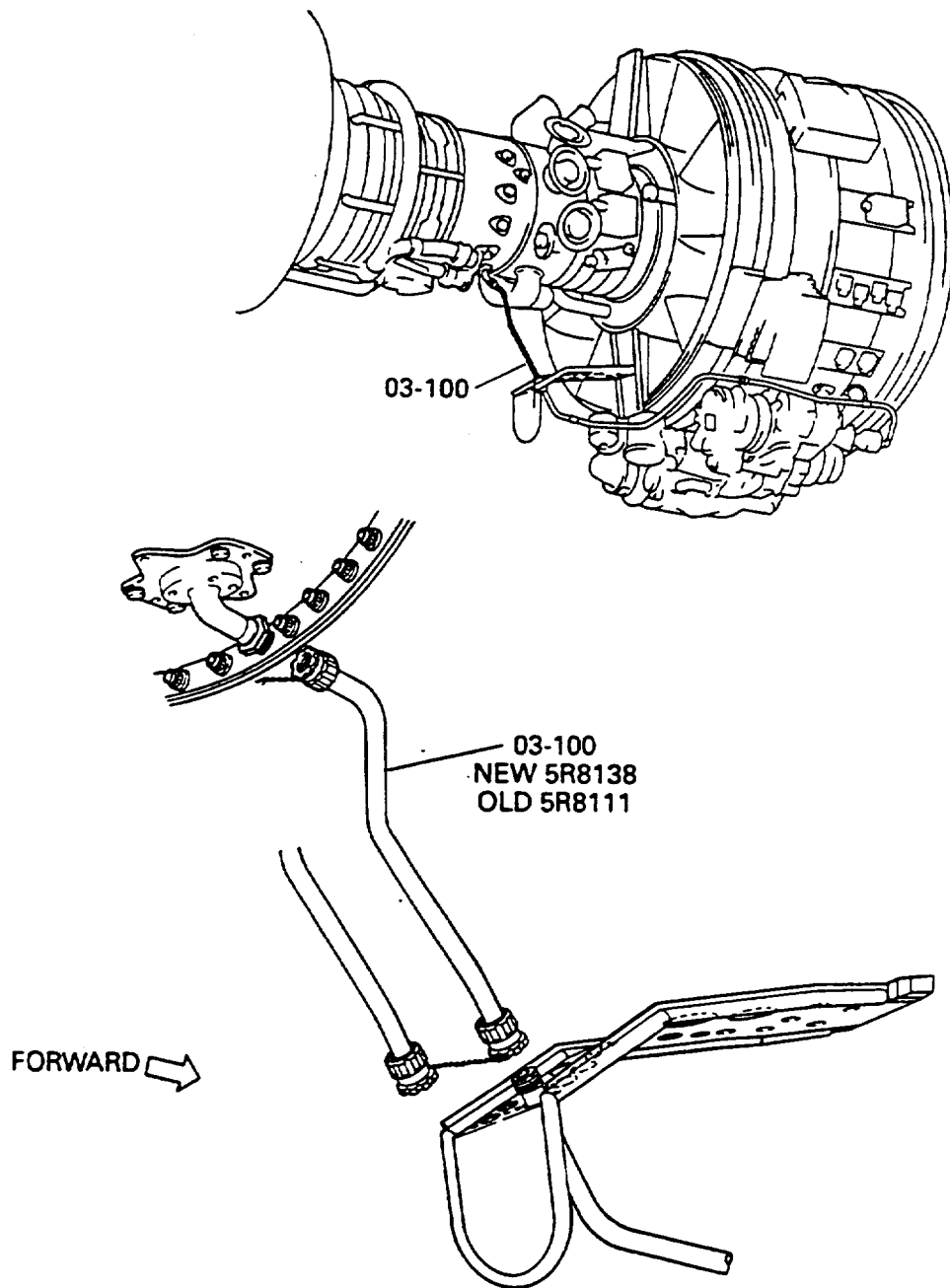
CoMat 02-126 Lockwire

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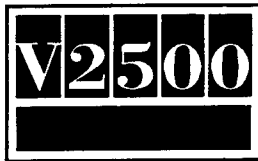
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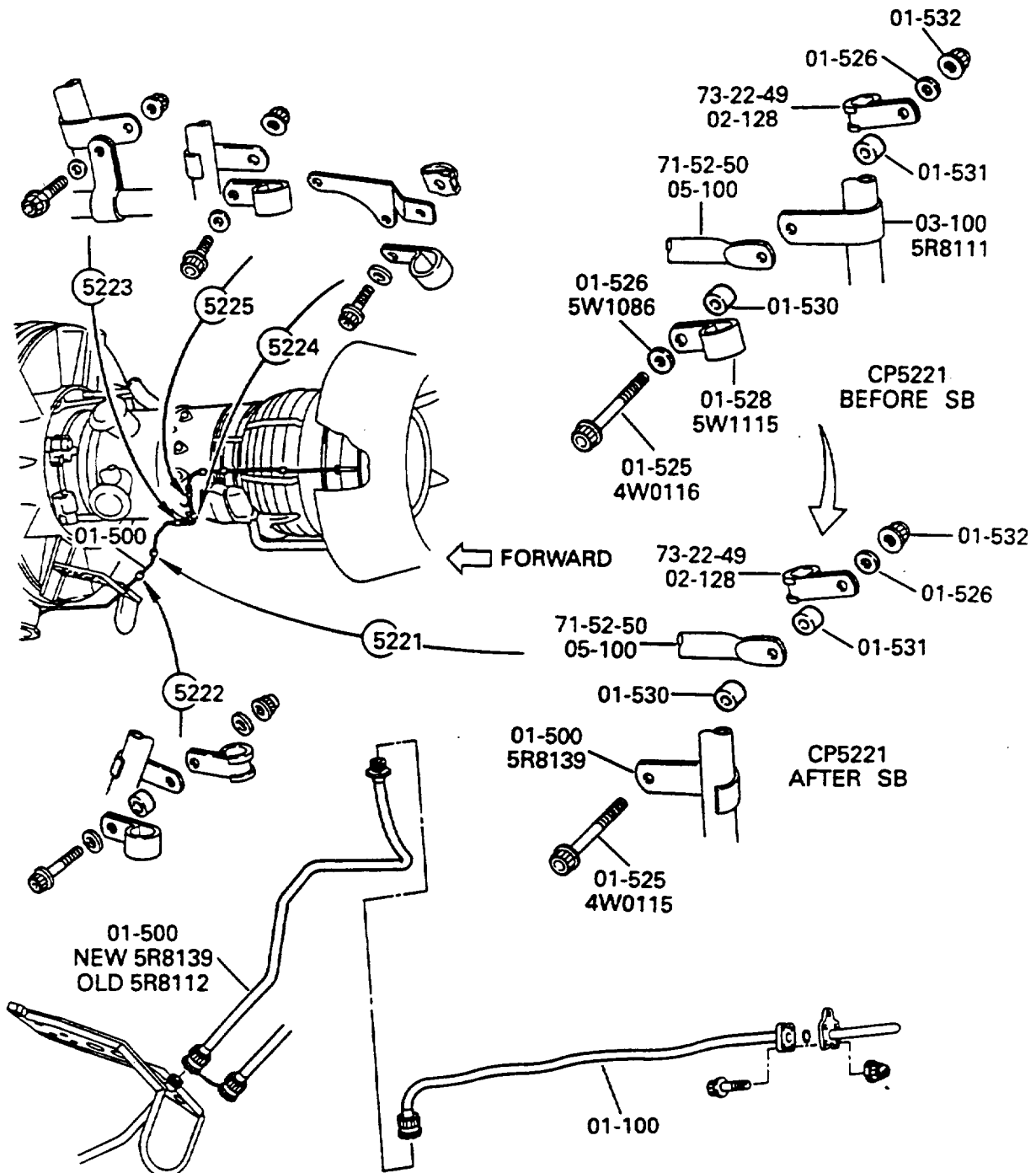
No.4 Scavenge Tube
Fig.1

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No.5 Scavenge Tube
Fig.2

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