



SERVICE BULLETIN

POWER PLANT - ENGINE-AIR-FIRE DETECTION, MOUNTING BRACKET - REPLACEMENT OF - CATEGORY
CODE 4 - MOD.ENG-71-0021

1. Planning Information

A. Effectivity

- (1) Airplane: Airbus A320
- (2) Engine: V2500-A1 Engine V0014.

B. Reason

(1) Condition

The 740-5034-503 fire detection mounting bracket touches the 5A0938 cold air buffer tube which uses the same installation holes.

(2) Background

When the 740-5034-503 mounting bracket was installed it was seen that it touched the 5A9038 cold air buffer tube. This could cause damage to these items. It is recommended to replace the 740-5034-503 mounting bracket with the new 740-5034-505 mounting bracket.

(3) Objective

To maintain engine reliability.

(4) Substantiation

It has been shown that the incorporation of this Service Bulletin will give a solution to the problem.

(5) Impact of Bulletin on:

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

(6) Supplemental Information

None.

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**C. Description**

(1) The change introduced by this Bulletin is as follows:

The 740-5034-503 is replaced by the 740-5034-505 fire detection mounting bracket. The new bracket has a changed contour which will give clearance between the bracket and the 5A9038 cold air buffer tube.

D. Approval

The technical content of this Service Bulletin is covered by an Airbus Industrie Modification which is under DGAC (Direction Generale de L'Aviation Civile -France) approval.

E. Compliance

Category 4

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

F. Manpower

Estimated manhours to incorporate the full intent of this Bulletin:

VENUE

ESTIMATED MAN HOURS

(1) In Service

(a) To gain access	0.2 M/Hrs
(b) To embody	0.5 M/Hrs
(c) To return nacelle to service	0.2 M/Hrs

Total	0.9 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 V2571021-551 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. Delivery schedules will be furnished to operators upon receipt of their written request.

Direct purchase order to:

V2500-ENG-71-0021



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Rohr Industries, Inc.
660 Bay Blvd.
Chula Vista, CA 92012-0878 USA
Attn: Customer Support Manager, Bldg. 850A
(Service Bulletin No.V2500-ENG-71-0021)

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. References

- (1) Internal Reference No.

88VN127
- (2) Other References

V2500 Aircraft Maintenance Manual 78-32-00
70-23-11

L. Other Publications Affected

V2500 Illustrated Parts Catalog 75-22-49

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2. Accomplishment Instructions

A. Prerequisite Instructions

WARNING: DO NOT TOUCH THE ENGINE COMPONENTS UNTIL THEY ARE COOL. THE ENGINE COMPONENTS STAY HOT FOR SOME TIME AFTER THE ENGINE IS SHUTDOWN AND CAN CAUSE INJURY.

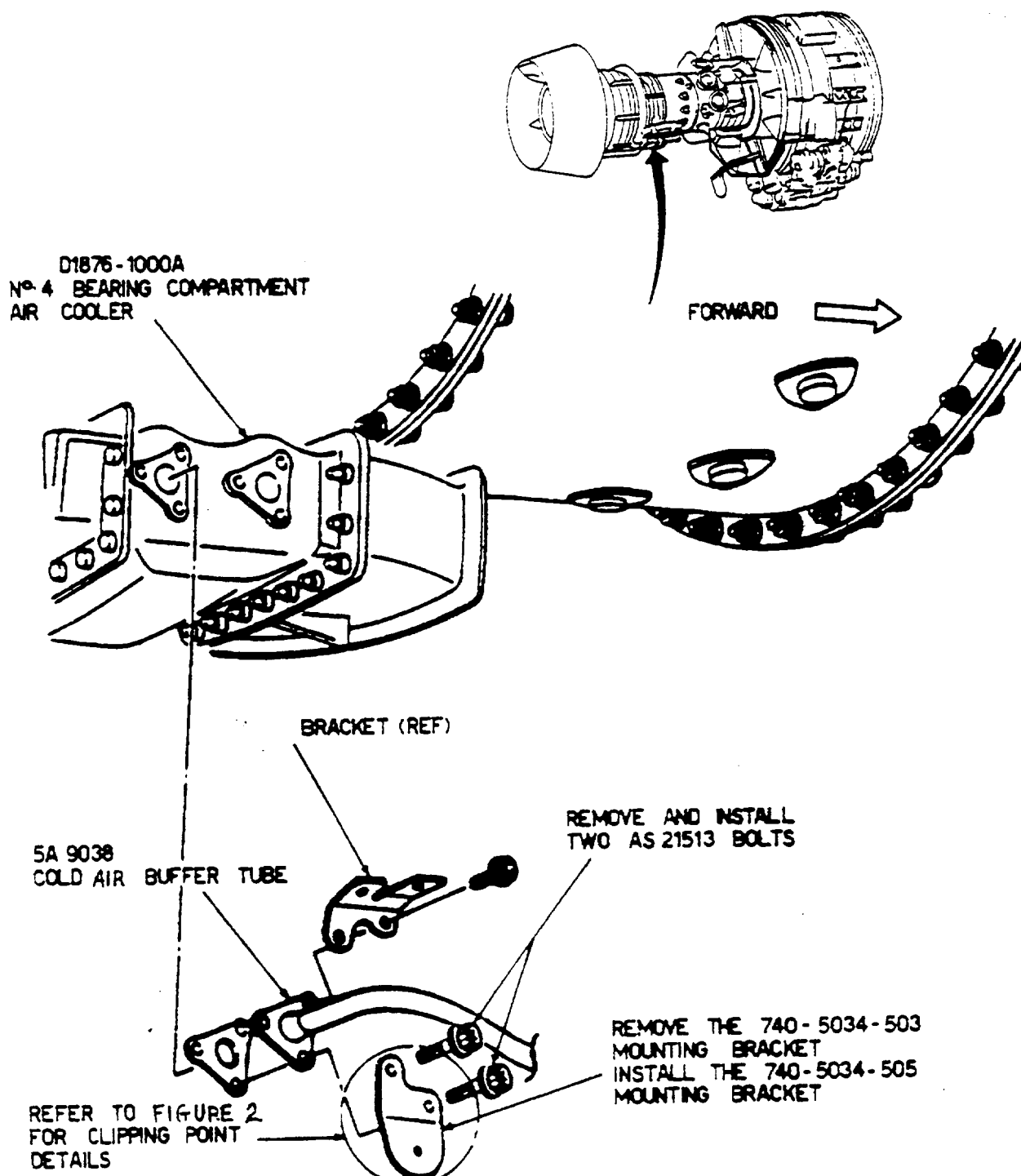
- (1) Open the thrust reverser halves as specified in the V2500 Aircraft Maintenance Manual, Task 78-32-00-010-010.
- (2) Find the D1876-1000A No. 4 bearing compartment air cooler on the bottom of the engine core. (Refer to Figure 1.)
- (3) Find the 740-5034-503 mounting bracket which is attached to the flange of the 5A9038 cold air buffer tube. This tube is installed to the No. 4 bearing compartment air cooler.

B. Rework or Modification Instructions

- (1) Replace the 740-5034-503 mounting bracket as follows:
 - (a) Release clipping point 5500 which holds the 740-5032-503 support tube of the 7827-02 fire detector assembly to the 740-5034-503 mounting bracket. Remove the AS21408 bolt, the SP155-D washer, and the AS20624 nut which attach the 471-8 'P' clip to the mounting bracket. Let the 471-8 'P' clip stay on the 740-5032-503 support tube. (Refer to Figure 2.)

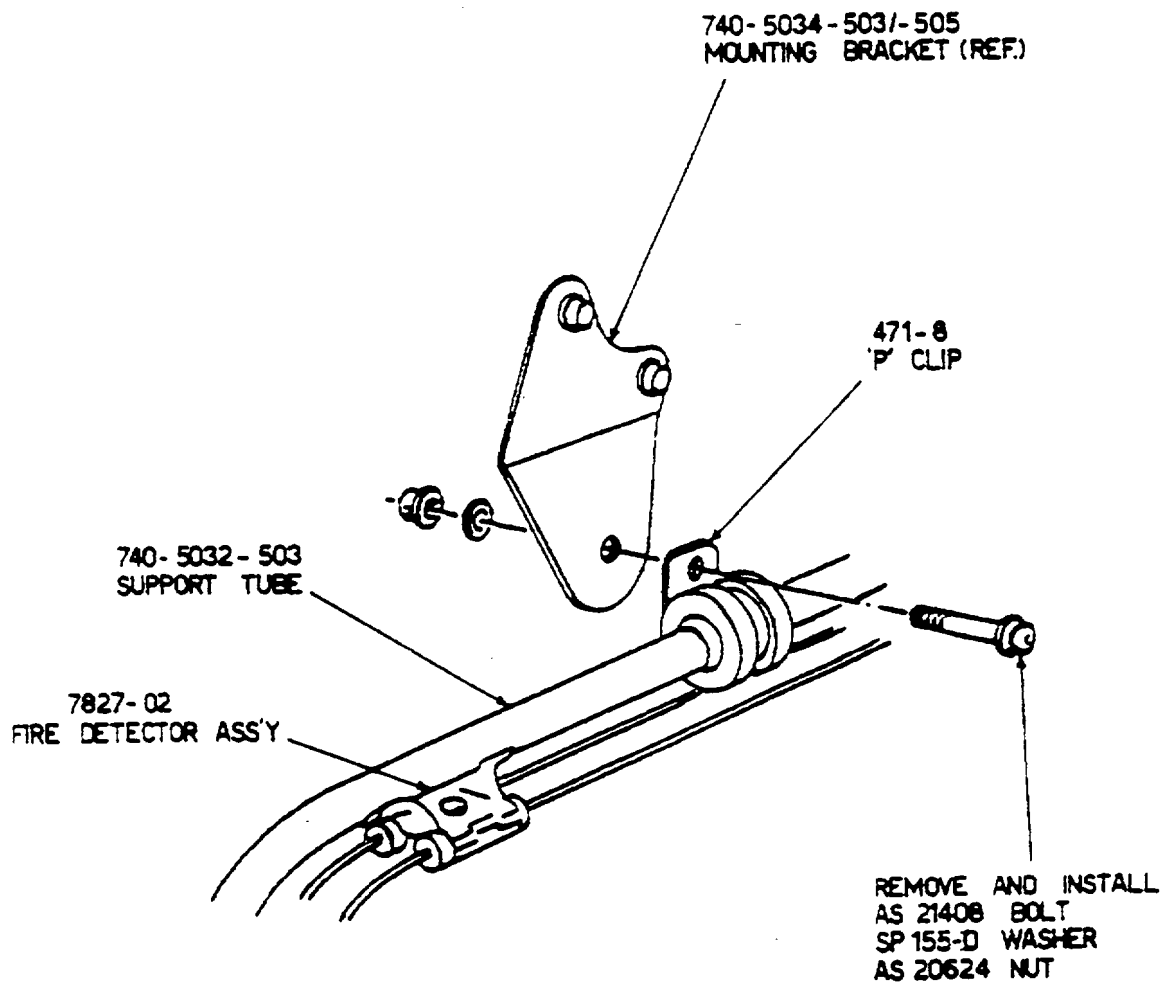
CAUTION: SUFFICIENTLY LOOSEN THE THIRD BOLT WHICH ATTACHES THE 5A9038 COLD AIR BUFFER TUBE TO THE NO. 4 BEARING COMPARTMENT AIR COOLER. THIS WILL PREVENT DISTORTION OF THE TUBE FLANGE WHEN THE OTHER TWO BOLTS ARE REMOVED.
 - (b) Remove the two AS21513 bolts which attach the 740-5034-503 mounting bracket to the flange of the 5A9038 cold air buffer tube. Remove and discard the 740-5034-503 mounting bracket. (Refer to Figure 1.)
 - (c) Install the 740-5034-505 mounting bracket to the flange of the 5A9038 cold air buffer tube with two AS21513 bolts. Torque all three bolts in the flange to 100 lb-in. (11.3 N.m) as specified in the V2500 Aircraft Maintenance Manual, Task 70-23-11-911-010.

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Removal/Installation of the Fire Detection Bracket
Fig.1

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Removal/Installation of Clipping Point 5500
Fig.2

V2500-ENG-71-0021



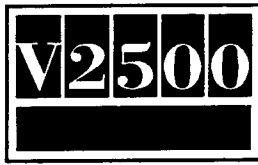
- (d) Attach the 471-8 'P' clip (which holds the 740-5032-503 support tube) to the 740-5034-505 mounting bracket with the AS21408 bolt, the SP155-D washer, and the AS20624 nut. Torque the bolt to 40 lb-in. (4.52 N.m) as specified in the V2500 Aircraft Maintenance Manual, Task 70-23-11-911-010. (Refer to Figure 2.)

C. Post-requisite Instructions

- (1) Close the thrust reverser halves as specified in the V2500 Aircraft Maintenance Manual, Task 78-32-00-410-010.

D. Recording Instructions

- (1) A record of accomplishment is necessary.

3. Material Information

NEW PN (ATA NO.)	QTY	EST'D UNIT PRICE (\$)	KEYWORD	OLD PN (IPC NO.)	INSTR/ DISPOS
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Applicabilty: For each V2500 Engine to incorporate this Bulletin.

A. Kits Associated with this Service Bulletin:

V2571021-551	1		Kit		(A)
consisting of:					
740-5034-505	1		Bracket, Mounting		

B. Parts Affected by this Service Bulletin:

740-5034-505	1		Bracket,	740-5034-503	(1D)
(75-22-49)			Mounting	(10-060)	(B)(S1)

C. Instruction/Disposition Code Statements:

- (A) Kits are available.
- (B) New part supplied as detail of the Kit.
- (1D) Discard old part number.
- (S1) Old and new parts are directly interchangeable.