PNEUMATIC SYSTEM - NACELLE - POWERPLANT - TUBES, PRESSURE INDICATING - SERVO TUBE - REPLACEMENT OF - CATEGORY CODE 4. - MOD.NAC-36-0001

1. Planning Information

A. Effectivity

(1) Aircraft: (a) Airbus A320

(2) Nacelle: V2500-A1 Nacelles

(a) The intent of this Service Bulletin was incorporated at the manufacturer on V2500 Engine Buildup Units (EBU) Serial No. 122 and on.

(b) The following EBU Serial Numbers were not changed at the manufacturer. They can be modified by incorporating this Service Bulletin using Kit V2536001-551.

EBU Serial Unit No
1-130, 147
152, 153

B. Reason

(1) Condition

Under adverse conditions the clearance between the 10th stage Gimbal (on the cabin air bleed tubes) and servo tube may be inadequate.

(2) Background

This condition was discovered during installation in production. Satisfactory clearance was dependant on the 'Y' duct alignment (cabin air bleed tube) which could vary slightly.

(3) Objectives

To provide improved clearance between the 10th stage gimbal and the servo tube (to the pressure regulator valve).

(4) Substantiation

Trial installation on mock-up concluded that the proposed modification and re-route of the servo tube provided the necessary clearance.

(5) Effect of Bulletin on

(a) Removal/Installation - Affected
(b) Disassembly/Assembly - Affected
(c) Cleaning - Not affected
(d) Inspection/Check - Affected
(e) Repair - Not affected
(f) Testing - Not affected

(6) Supplemental Information

(a) The assembly of the Post-Service Bulletin configuration requires instructions for the modification of clipping point CP5494.

C. Description

(1) The changes introduced by this Service Bulletin are as follows:-

(a) The servo tube to the bleed-air pressure regulator valve is replaced. Clipping points CP5865 and and CP5495 are disassembled/ assembled to facilitate this and clipping point CP5494 (comprising bolt, nut and 'P' clip) is modified.

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 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.

F. Manpower

Estimated manhours to incorporate the full intent of this Service Bulletin:

VENUE ESTIMATED MANHOURS

(1) In Service.....

(a) To gain access.....0.2 M/Hrs

(b) To embody.....0.75 M/Hrs

(c) To return nacelle to service.....0.2 M/Hrs

Total.....1.15 M/Hrs

G. Material - Cost and Availability

The parts to accomplish this Service Bulletin are available from the manufacturer as Kit No V2536001-551.

Formal Kit prices and delivery schedules will be furnished to Operators upon receipt of their written request. (Prices shown in Paragraph 3, "MATERIAL INFORMATION", are listed for planning purposes only, and are subject to change without notice.) Operators will have one year to place an order from the issue date of this Service Bulletin. After one year, kits will no longer be available and Operators will have to order parts individually at catalog price, if they desire to incorporate this change.

Direct request to:
Rohr Inc.
850 Lagoon Drive
Chula Vista, CA 91910-2098
U.S.A.
Attn: Airline Support Manager - Bldg. 107A
(Ref.Service Bulletin V2500-NAC-78-0088)

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

.....(Power plant Station PPS 100.00)

J. Electrical Load Data

Not affected.

K. References

(1) Internal Reference No.

89VN026

(2) Other References

A320/A321 Aircraft Maintenance Manual 36-11-52 78-32-00

L. Other Publications Affected

A320/V2500-A1 Powerplant 36-21-49
Illustrated Parts Catalog

A320/V2500-A1 Engine 36-21-49
Illustrated Parts Catlog

A320/V2500-A1/A320/A321/V2500-A5 72-00-40
Engine Manual

2. Accomplishment Instructions

A. Pre-Requisite Instructions

(1) Open the left thrust reverser half with instructions in the A320 Aircraft Maintenance Manual, TASK 78-32-00-010-010.

(2) Find the 740-5644-503 servo tube on the left side of the engine core (Refer to Figure 1).

B. Rework or Modification instructions

(1) Remove the two TA025022FT04 'P' clips, AS21406 bolt and AS41104 clip nut from the clipping point CP5865 (Refer to Figure 2).

(2) Remove the TA025022FT04 'P' clip, AS20624 bolt, ST1698-D47 spacer and AS41104 clip nut from clipping point CP5495.

(3) Remove the TA025022FT04 'P' clip, AS20624 nut and AS21406 bolt from clipping point CP5494. Discard the 'P' clip.

(4) Reinstall the bolt and nut at clipping point CP5494. Torque the nut to 40lbf in (5,52 Nm).

(5) Disconnect and remove the 740-5644-503 servo tube. Discard the tube (Refer to Figure 1).

(6) Apply a small amount of high temperature anti-seize compound (CoMat 10-109) to the threads of the new 745-5644-505 servo tube.

(7) Install the 740-5644-505 servo tube in the position of the -503 servo tube. Do not tighten the couplings at this time.

NOTE: It may be necessary and is permissible to carefully handform the tube at installation to eliminate any pre-load on the tube.

(8) Assemble the clipping points CP5865 and CP5495 as follows:

(a) Safety the 740-5644-505 servo tube (together with the 740-5092-501 tube) at CP5865 with two TA02522FT04 'P' clips, an AS21406 bolt and AS41104 clip nut (Refer to Figure 2).

(b) Safety the 740-5644-505 servo tube at CP5495 with a TA025022FT04 'P' clip, an AS21408 bolt, ST1698-D47 spacer and an AS41104 clip nut.

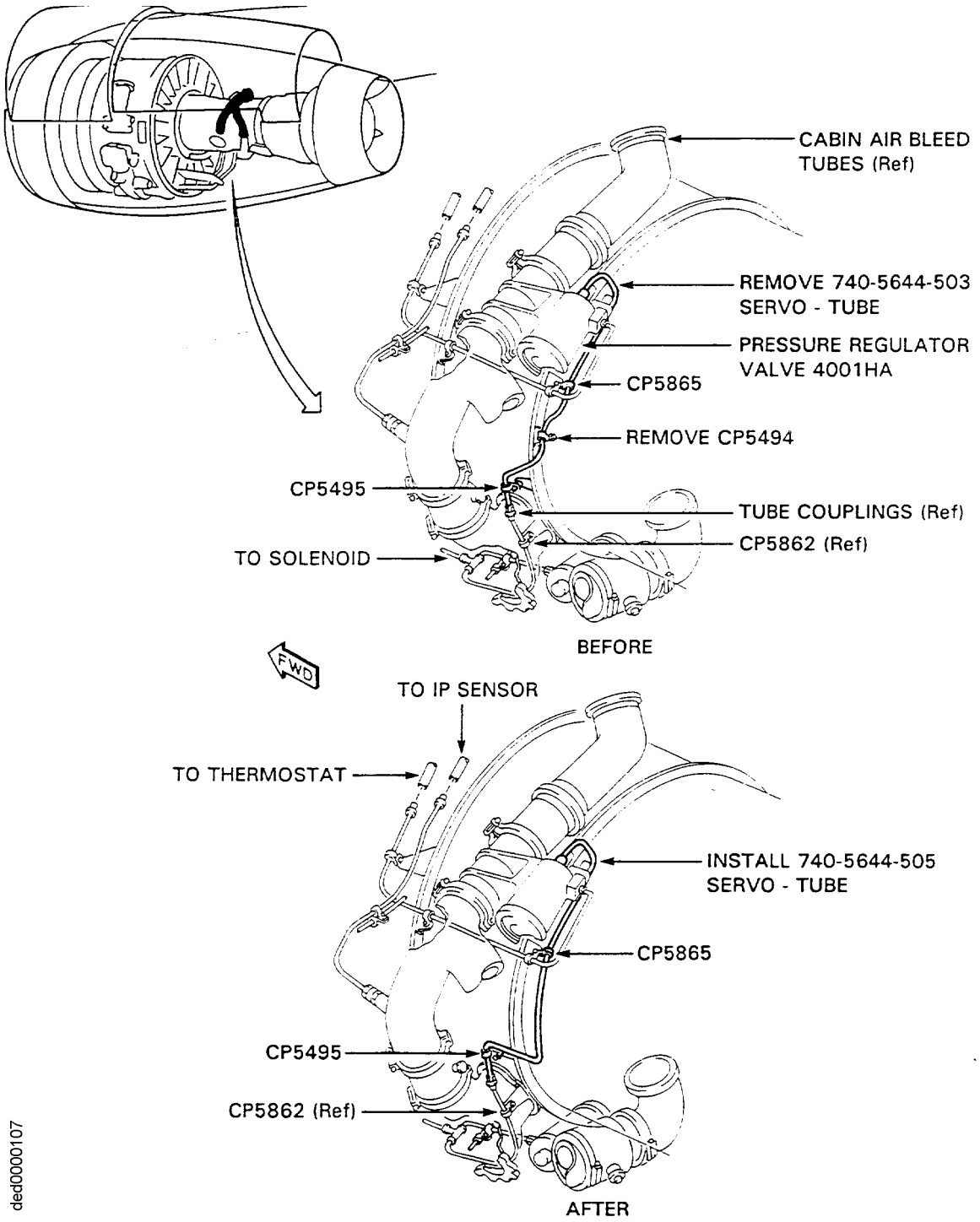
C. Post Requisite Instructions

(1) Close the left thrust reverser with instructions in the A320 Aircraft Maintenance Manual, TASK 78-32-00-410-010.

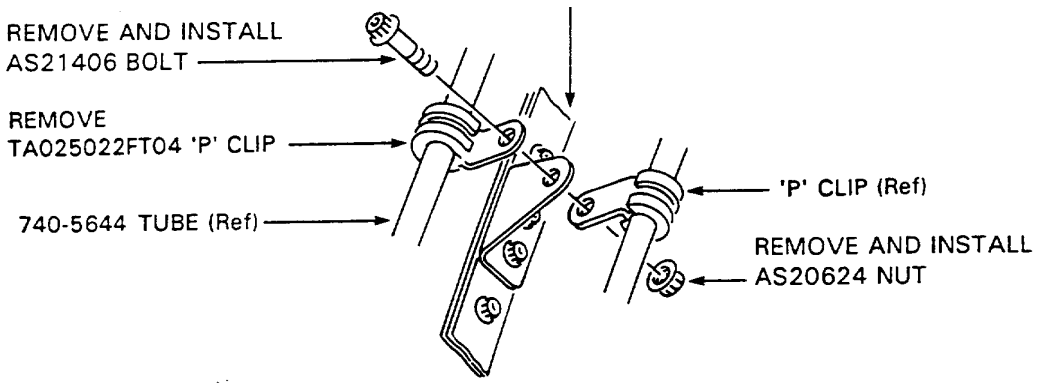
(2) Do the operational test of the bleed pressure regulator valve with instructions in the A320 Aircraft Maintenance Manual, TASK 36-11-52-710-010.

D. Recording instructions

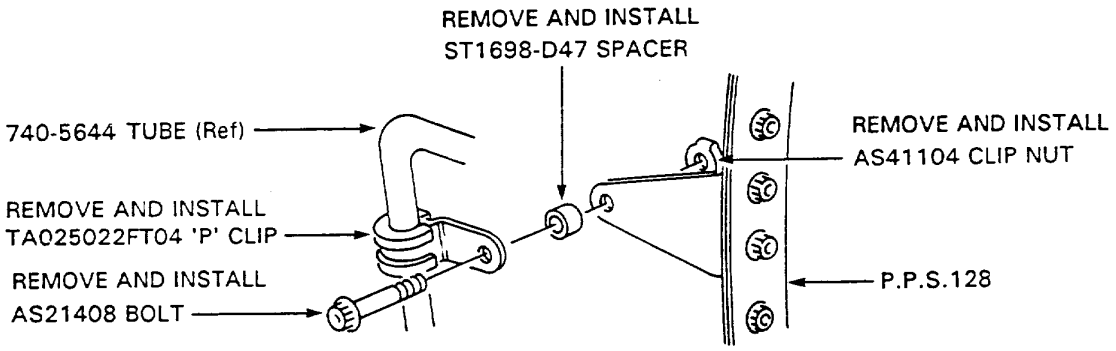
(1) A record of accomplishment is necessary.



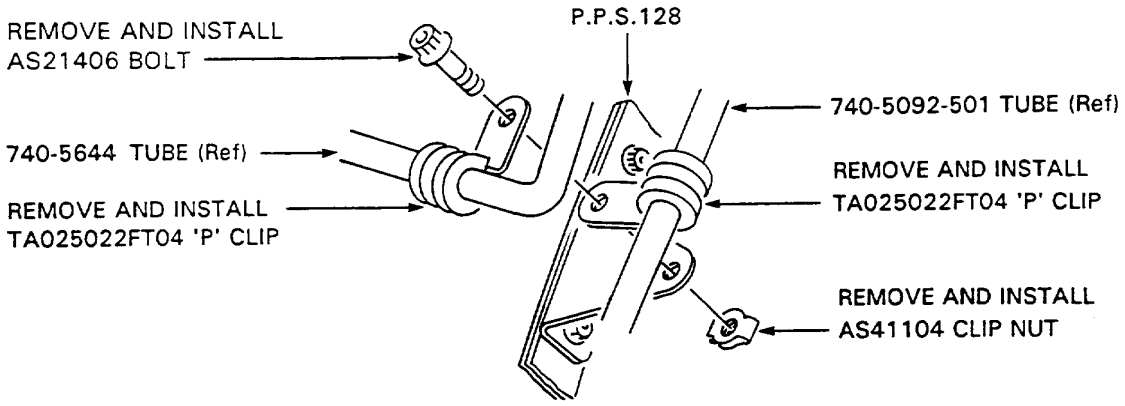
Replacement of the servo-tube
Fig.1



CP5494



CP5495



CP5865

ded0000108

Disassembly/assembly of clipping points
Fig.2

3. Material Information

Applicability: For each V2500-A1 Nacelle to incorporate this Bulletin

A. Kits associated with this Bulletin:

NEW PART NO. (ATA NO)	QTY	EST'D UNIT PRICE ($)	KEYWORD	OLD PART NO. (IPC NO.)	INSTR/ DISPOS
V2536001-551 Consisting of:			Kit		(A)
740-5644-505	1		Servo-tube		

B. Parts affected by this Bulletin:

740-5644-505 (36-21-49)	1		Servo-tube	740-5644-505 (01-500)	(B)
--- (36-21-49)	1		"P" clip	TA025022FT04 (01-544)	(1D)

C. Instruction/Disposition Code Statements:

(A) Kit is available.

(B) Part supplied as a detail of the kit.

(1D) Discard old part.

D. Materials Required to Incorporate this Bulletin:

CoMat 10-109 High Temperature Anti-Seize Lubricant

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