International Aero Engines

SERVICE BULLETIN

POWER PLANT - NACELLE - POWERPLANT - REPLACEMENT OF THE TAI VALVE - CATEGORY CODE 7 - MOD.NAC-71-0166

1. Planning Information

A. Effectivity

(1) Airplane: Airbus A320

(2) Nacelle: All V2500-A1 Nacelles.

B. Reason

(1) Condition

The TAI valve may be slow to open when the engine is at idle speed.

(2) Background

An Operator reported that experience of the TAI valve showed that it was slow to open when the engine was idling.

(3) Objective

To provide a TAI valve that opens quicker when the engine is at idle.

(4) Substantiation

The new valve introduced by this Service Bulletin was designed and tested for operation at engine idle speed.

(5) Effect of Bulletin on:

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

(6) Supplemental Information

None.

C. Description

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

(a) The TAI valve is removed and replaced with a new valve. An existing bracket is made redundant and a new one is introduced to accommodate the routing change of the cable harness to the new TAI valve.

D. Approval

The technical content of this Service Bulletin is covered by an Airbus Industrie Modification No. 24499 which is under DGAC (Direction Generale de L'Aviation Civile - France) approval.

E. Compliance

Category 7

Accomplish when the supply of superseded parts has been depleted.

F. Manpower

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

VENUE	ESTIMATED MANHOURS
(1) In Service	N/A
(2) At Overhaul	1.5

Total 1.5 M/Hrs

G. Material Cost and Availability

The parts to accomplish this Service Bulletin are available from the manufacturer as Kit No. V2571166-551.

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 International Sales Corporation
PO Box 878
Chula Vista, CA 92012-0878 USA

Attn: Manager, Spares Operations - Warranty
(Service Bulletin No. V2500-NAC-71-0166)

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.

92VN056

(2) Other References

A320/V2500 Aircraft Maintenance Manual	30-21-51
A320/V2500 Aircraft Maintenance Manual	70-30-00
A320/V2500 Aircraft Maintenance Manual	71-00-00

L. Other Publications Affected

Publication	Chapter/Section
V2500 Powerplant Illustrated Parts Catalog	71-51-43 30-21-51
V2500 Engine Illustrated Parts Catalog	71-51-43 30-21-51

2. Accomplishment Instructions

A. Pre-requisite Instructions

(1) These Accomplishment Instructions are written on the basis that the Inlet Cowl has previously been removed.

(2) Remove the Air Intake Anti-ice Valve as specified in the A320/V2500 Aircraft Maintenance Manual, Task 30-21-51-000-010-A01.

B. Modification Instructions

(1) Disassemble clipping point CP0828 (Refer to Figures 1 and 2.)

(2) Remove the two NAS1291C4M nuts and SP155E washers to release the 740-5421-501 bracket, 740-5923-501 packing piece and 740-5420-501 bracket from the 'A' flange of the fancase. Do not remove the bolts from the flange.

(3) Install the 740-5420-501 bracket and 740-5923-501 packing piece back to 'A' flange with the two NAS1291C4M nuts and SP154D washers. Torque the nuts 85 to 105 lbfin (10 to 12 Nm).

(4) Install the 740-5420-501 bracket and 740-5923-501 packing piece to 'A' flange as shown with the two NAS7204U6 bolts, two SP155E washers and two NAS1291C4M nuts. Torque the nuts 85 to 105 lbfin (10 to 12 Nm).

(5) Assemble clipping point CP1206 to bracket 740-5420-501 as shown with the 4W0103 bolt, TA025074-04 clamp, SP154D washer and AS41104 clip nut. Hand tighten bolt at this stage.

WARNING: DO NOT GET THE CLEANING FLUID ON YOUR SKIN OR IN YOUR EYES. PUT ON PROTECTIVE CLOTHING, GOGGLES AND A FACE MASK IF CONCENTRATIONS ARE MORE THAN PERMITTED LIMITS. USE THE FLUID IN A WELL VENTILATED AREA. DO NOT BREATHE THE GAS. IF YOU GET THE CLEANING FLUID ON YOUR SKIN OR IN YOUR EYES, FLUSH IT AWAY WITH WATER. GET MEDICAL AID IF YOUR SKIN OR EYES BECOME IRRITATED.

(7) Clean the ends of the two TAI ducts and the 326975 TAI valve for assembly with a clean cloth made moist with V01-002 cleaning fluid (Refer to the A320/V2500 Aircraft Maintenance Manual 70-30-00)

(8) Put the 326975 TAI valve with the two new NK103102-0200 seals in position as shown, with the flow direction arrow pointing downwards.

(9) Put the two 6299257-0200 couplings in position (one at either joint).

(10) Position the 326975 TAI valve such that maximum clearance is achieved between the valve and adjacent hardware/structure. Torque the couplings to between 45 and 55 lbfin (5 to 6.2 Nm).

(11) Connect the 4000DN-A electrical connector to the 326975 TAI valve.

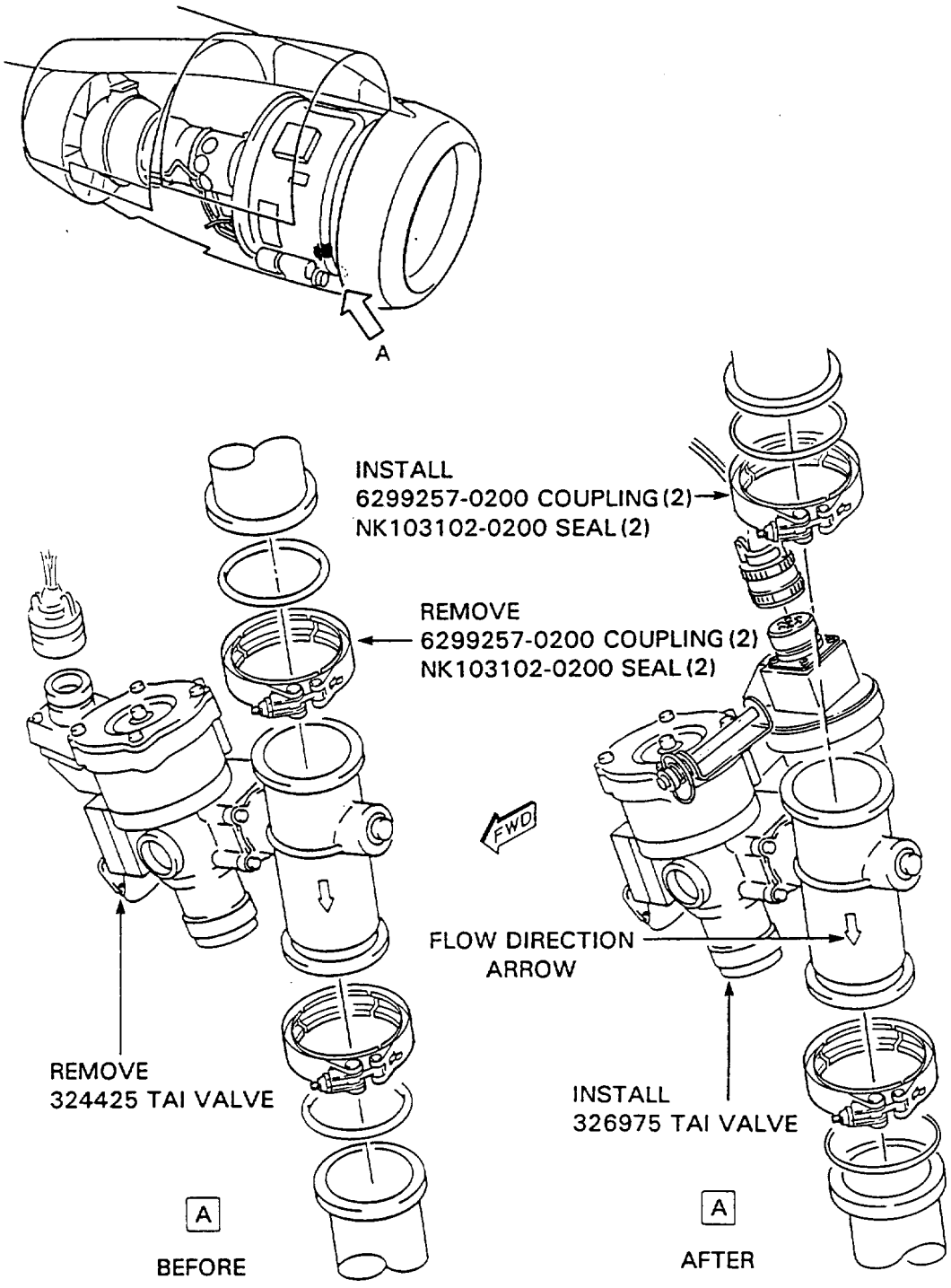
(12) Position the electrical harness to obtain maximum clearance between itself and adjacent hardware/structure. Torque the nut at clipping point CP1206 to between 36 to 45 lbfin (4 to 5 Nm)

C. Post-requisite Instructions

(1) Do a test of the Air Intake Anti-ice System as instructed in the A320/V2500 Aircraft Maintenance Manual, Task 71-00-00-700-012.

C. Recording Instructions

(1) A record of accomplishment is necessary.



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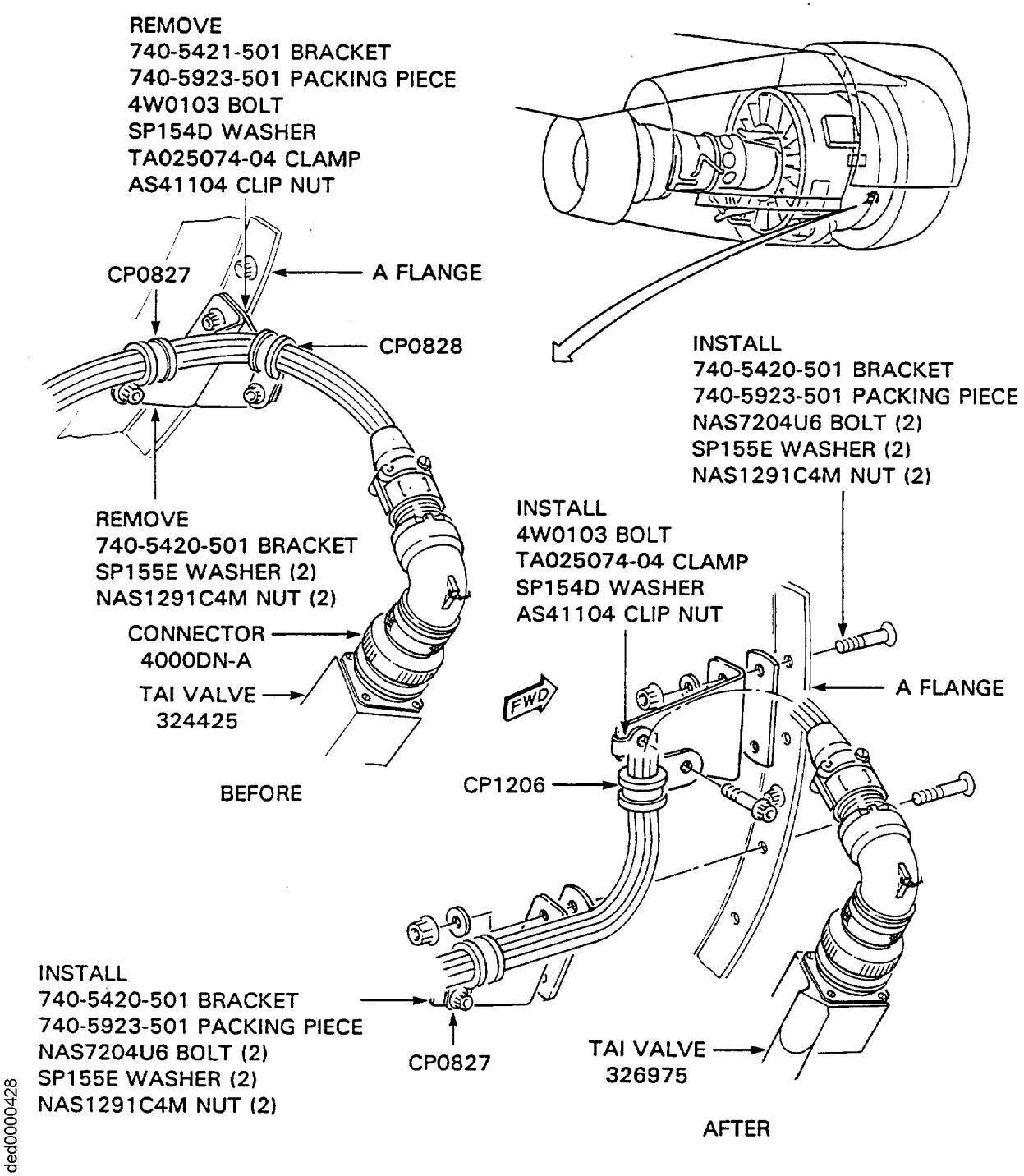
REPLACEMENT OF T.A.I. VALVE
FIG.1



REPLACEMENT OF T.A.I. VALVE
FIG.2

NEW PART No (ATA No)	QTY	EST'D UNIT PRICE ($)	KEYWORD	OLD PART No (IPC No)	INSTR/ DISPOS

Applicability: For each V2500 Nacelle to incorporate this Bulletin.

A. Kits associated with this Bulletin

V2571166-551 consisting of:	1	15,286.00	Mod Kit		(A)
326975	1		Valve, Intake Anti-ice		
4W0103	1		Bolt		
TA025074-04	1		Clamp, Loop CP1206		
SP154D	1		Washer, CP1206		
AS41104	1		Nut, Self Locking CP1206		
740-5420-501	1		Bracket, CP1206		
NAS1291C4M	2		Nut		
SP155E	2		Washer		
740-5923-501	1		Packing Piece		
NAS7204U6	2		Bolt, Csk		
NK103102-0200	2		Seal		

B. Parts affected by this Bulletin

326975 (30-21-51)	1	14,679.00	Valve, Intake Anti-ice	324425 (01-010)	(C)(S1) (4D)
4W0103 (71-51-43)	1	5.0	Bolt	--- (01-082)	(C)(S1)
TA025074-04 (71-51-43)	1	41.00	Clamp, Loop CP1206	--- (01-083)	(C)(S1)
SP154D (71-51-43)	1	1.00	Washer CP1206	--- (01-084)	(C)(S1)
AS41104 (71-51-43)	1	5.00	Nut, Self Locking CP1206	--- (01-085)	(C)(S1)
--- (71-51-43	1		Bolt CP0828	4W0103 (01-094)	(B)(S1)
--- (71-51-43	1		Washer CP0828	SP154D (01-095)	(B)(S1)
---	1		Clamp, Loop	TA025074-04	(B)(S1)

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(71-51-43			CP0828	(01-097)	
---	1		Clip nut	AS41104	(B)(S1)
(71-51-43			CP0828	(01-101)	
740-5420-501	2	62.00	Bracket	---	(C)(S1)
(71-51-43			CP1206	(05-820)	(3D)
NAS1291C4M	4	3.00	Nut	---	(C)(S1)
(71-51-43				(05-821)	(2D)
SP155E	4	1.00	Washer	---	(C)(S1)
(71-51-43				(05-822)	(2D)
740-5923-501	2	61.00	Packing Piece	---	(C)(S1)
(71-51-43				(05-823)	(3D)
NAS7204U6	4	36.00	Bolt, Csk	---	(C)(S1)
(71-51-43				(05-824)	(2D)
---	1		Bracket	740-5421-501	(B)(S1)
(71-51-43				(05-900)	(1D)

C. Expendables Required to Incorporate This Bulletin

Part No.	ATA/IPC No.	Qty	Keyword
NK103102-0200	30-21-51-01-020	2	Seal

D. Consumables Required to Incorporate This Bulletin

comat 01-002 Cleaning Fluid

C. Instructions/Dispositions Code Statements

(A) Kit is available.

(B) Old part can be used up on other applications

(S1) New parts coded (S1) must replace old parts coded (S1) as a complete set per engine.

(1D) Quantity decreased to 1.

(2D) Quantity increased to 4.

(3D) Quantity increased to 2.

(4D) Discard old part.

(C) New part currently available.