SERVICE BULLETIN REVISION TRANSMITTAL SHEET

AIRBUS INDUSTRIE CUSTOMER SERVICES DIRECTORATE 1 Rond Point Maurice Bellonte 31707 BLAGNAC CEDEX FRANCE

Tel : (33) 5 61-93-33-33

Telex: AIRBU 530526F

FAX : (33) 5 61-93-41-06

TITLE: AIR CONDITIONING - AIR COOLING SYSTEM - INTRODUCE A MODIFIED RAM-AIR

OUTLET

MODIFICATION No.: 25459K4419

ATA SYSTEM: 21

This page transmits Revision No. 01 of Service Bulletin No. A320-21-1098.

ADDITIONAL WORK

No additional work is necessary to do this revision.

REASON

This Revision is issued to inform the affected customers that the Reason has been amended, the effectivity has been updated and additional special tools have been added.

CHANGES

SUMMARY

Reason

- Wording amended

Effectivity

- Updated.

Manpower

- Manhours updated.

Material Information

- Qty amended, NOTE added.
- Figure added.

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Planning Information

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REVISION TRANSMITTAL SHEET

- Para. A.(1), Models deleted.
- Para. A.(2), Effectivity updated and paragraph on proprietary information added.
- Para. B.(1), Wording amended.
- Para. E., Manhours updated.
- Para. G., Special tool and Note added.
- Para. I., AMM and Service Bulletin references added.

Accomplishment Instructions

- Para. A.(1)(j), Workstep added.
- Para. B.(1)(a)3, Insert quantity corrected to read "4".
- Para. B.(1)(a)4, Workstep added.
- Para. B.(1)(a)5, Text amended.
- Figure 1, Sheet 1 Figure of special tool added.
- Figure 2, Sheet 1 Figure of special tool added.

Material Information

- Para. A., Two PN's and Quantities amended.
- Para. B., Special tool added.
- Para. C., Lockwire deleted.
- Para. D., Item 2, (2), deleted and PN's amended.

FILING INSTRUCTIONS

This Service Bulletin has been generated electronically and is reissued as a complete document. Replace the complete document.

Put this Revision Transmittal Sheet in front of the Service Bulletin.

HISTORY OF PREVIOUS REVISIONS

No previous Revisions

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SERVICE BULLETIN **REVISION TRANSMITTAL SHEET**

REVISION SEQUENCES

ORIGINAL: Aug 20/96
REVISION No.: 01 - Mar 17/98

DATE : Aug 20/96 SERVICE BULLETIN No.: A320 - 21 - 1098

REVISION No.: 01 - Mar 17/98

SERVICE BULLETIN
SUMMARY

Airbus Industrie 1 Rond Point Maurice Bellonte 31707 Blagnac Cedex France Tel: (33) 61933333 Telex: AIRBU 530526 F

This summary is for information only and is not approved for modification of the aircraft

TITLE : AIR CONDITIONING - AIR COOLING SYSTEM - INTRODUCE A MODIFIED RAM-AIR

OUTLET

MODIFICATION No.: 25459K4419

ATA SYSTEM: 21

REASON/DESCRIPTION/OPERATIONAL CONSEQUENCES

During a routine check of the pack-outlet door area, some operators have found that some of the outlet door attachment bolts were loose.

This Service Bulletin introduces the modification of the ram-air outlet flap with threaded inserts to avoid loosening of the bolts, and also the installation of a new improved lever.

The accomplishment of this Service Bulletin will ensure correct operation of the ram-air outlet components.

EFFECTIVITY

This Service Bulletin is applicable to these customer(s):
AAA, ACA, ADR, AFR, AIB, ALK, AMC, ANA, BAW, BV, CDN, CYP, DLH,
FHA, GFA, HP, IAC, IBE, KAC, MON, MSR, MXA, NWA, OYC, RJA, SAA,
SHK, TAR, XF, XP, XR, XW, XZ.

NOTE: Aircraft MSN 364, 385, 412 and subsequent have the content of this Service Bulletin embodied with Mod. 22995 (Service Bulletin A320-21-1051).

Accomplishment of this Service Bulletin cancels the inspection requirements of Service Bulletin A320-21-1057.

SERVICE BULLETIN(S) TO BE ACCOMPLISHED PREVIOUSLY OR SIMULTANEOUSLY

None

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SERVICE BULLETIN SUMMARY

REFERENCES/REPERCUSSIONS

TFU : 21.61.51.003

OEB : None

AOT : None

SIL : None

LIFE LIMIT : None

LINE MAINTENANCE AFFECTED : No

OTHER : None

NATURE OF THE WORK

Kit No. 211098A01

AIRCRAFT : YES

EQUIPMENT: NO

HARD : NO

SOFT: NO

OBRM: NO

COMPLIANCE

Desirable

MANPOWER

Kit No. 211098A01

TOTAL MANHOURS 16.50

ELAPSED TIME (HOURS) 8.50

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SERVICE BULLETIN SUMMARY

MATERIAL INFORMATION

AIRCRAFT DATA

Kit No. 211098A01

1 lever, 4 inserts

NOTE: Two Kits are required per aircraft.

EQUIPMENT DATA

None

APPENDICES

None

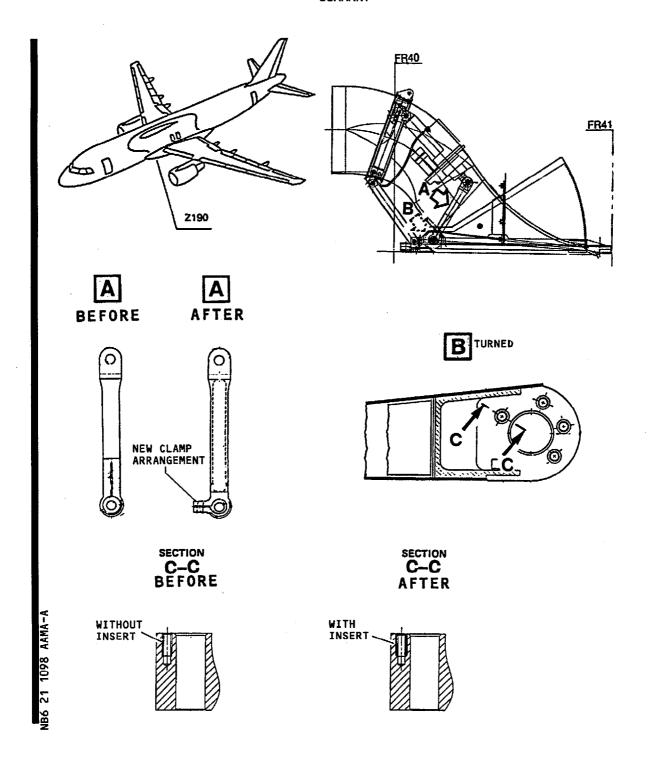
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SUMMARY



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Airbus Industrie Customer Services Directorate 1 Rond Point Maurice Bellonte 31707 Blagnac Cedex France

Tel: (33) 61933333 Telex: AIRBU 530526 F

TITLE : AIR CONDITIONING - AIR COOLING SYSTEM - INTRODUCE A MODIFIED RAM-AIR

OUTLET

MODIFICATION No.: 25459K4419 ATA SYSTEM: 21

1. PLANNING INFORMATION

A. EFFECTIVITY

(1) Aircraft models: 320-111, 320-211, 320-212, 320-231

(2) Aircraft

	omer and	MSN	Kit No.	Qty	Config.
Flee	et No.		211098	of Kits	No.
AAA	001-006	022,023,024,025,026,027	A01	12	
	007-012	029,030,140,142,157,229	A01	12	
ACA	201-206	059,068,073,084,122,126	A01	12	
	207-212	127,141,149,150,154,159	A01	12	
	213-218	183,233,242,248,253,254	A01	12	
	219-224	255,265,277,290,310,311	AO1	12	
	225-230	324,330,333,341,342,350	A01	12	
	231-233	359,378,384	AO1	6	
ADR	001-003	043,113,114	A01	6	
AFR	001,002	005,007	A01	4	
	004-009	014,019,020,021,002,004	A01	12	
	010-013	003,010,012,013	A01	8	
	015	016	A01	2	
	031-036	061,062,063,100,101,102	A01	12	
	037-042	128,129,133,186,187,188	A01	12	
	043-048	226,227,228,285,286,287	A01	12	
	066-068	033,036,044	A01	6	
	071-076	108,115,130,155,156,184	A01	12	
	077,078	214,239	A01	4	
	080-085	278,337,352,236,237,377	A01	12	
	201,202	144,145	A01	4	
	226,227	131,132	A01	4	
	231,232	203,220	A01	4	

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	comer and	MSN	Kit No. 211098	Qty of Kits	Config. No.
	301,302	204,211	A01	4	
	305	085	AO1	2	
	401-403	215,244,270	A01	6	
AIB	001	258	AO1	2	
	401,402	376,386	AO1	4	
ALK	001,002	374,406	A01	4	
AMC	001,002	112,293	AO1	4	
ANA	001-006	138,139,148,151,167,170	A01	12	
	007-012	196,212,219,245,300,328	AO1	12	
	013,014	365,383	AO1	4	
BAW	001-006	006,008,011,017,018,039	AO1	12	
	007-010	042,103,109,120	AO1	8	
BV	051,052	185,191	A01	4	
CDN	401-405	174,175,210,231,232	AO1	10	
	407-411	283,284,302,305,309	A01	10	
	415,416	403,404	A01	4	
CYP	001-006	028,035,037,038,180,256	A01	12	
	007,008	295,316	A01	4	
DLH	001-006	069,070,071,072,078,083	AO1	12	
	007-010	086,093,094,104	AO1	8	
	012-017	110,111,116,117,135,137	AO1	12	
	018-023	147,161,162,172,200,201	A01	12	
	024-029	202,209,216,217,218,267	AO1	12	
	030-034	268,269,346,382,401	A01	10	
FHA	001,002	332,369	AO1	4	
GFA	801-804	313,325,345,375	AO1	8	
HP	620-622	052,053,054	AO1	6	
	624-629	055,064,065,066,067,076	AO1	12	
	631-636	077,081,082,091,092,098	AO1	12	
	637	099	A01	2	
IAC	001-006	045,046,047,048,049,050	A01	12	
_,,,	007-012	051,056,057,058,074,075	A01	12	
	014-019	080,089,090,095,096,097	A01	12	
	020,021	396,398	A01	4	
IBE	001-006	134,136,143,146,158,173	A01	12	
	007-012	176,177,199,207,223,224	A01	12	
	013-018	240,241,246,264,266,274	A01	12	
	019-022	303,312,323,356	AO1	8	
KAC	001-003	181,182,195	A01	6	
MON	001,002	379,389	AO1	4	
MSR	001-006	165,166,178,194,198,351	A01	12	
1101	301 300	100,100,110,177,170,001	AQ i	16	

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	tomer and et No.	MSN	Kit No. 211098	Qty of Kits	Config. No.
	007	366	A01	2	
MXA	001-006	252,259,260,261,275,276	AO1	12	
	007-010	296,320,321,353	AO1	8	
	012	368	A01	2	
NWA	301-306	031,032,034,040,041,060	A01	12	
	307-312	106,107,118,121,125,152	A01	12	
	313-318	153,160,171,192,197,206	A01	12	
	319-324	208,213,262,263,272,273	AO1	12	
	325-330	281,282,297,298,306,307	A01	12	
	331-336	318,319,329,339,340,355	A01	12	
	337-342	358,360,367,372,380,381	A01	12	
	343-348	387,388,399,400,408,410	A01	12	
OYC	001-006	163,164,168,169,179,193	A01	12	
RJA	001,002	087,088	A01	4	
SAA	001-006	243,249,250,251,334,335	AO1	12	
SHK	001-003	322,326,344	A01	6	
TAR	001-006	119,124,205,370,390,402	A01	12	
	007	123	A01	2	
ΧF	001,002	393,394	AO1	4	
	008,009	405,361	A01	4	
	504-506	371,397,409	A01	6	
	551	279	A01	2	
ΧP	053-058	221,222,294,299,301,348	A01	12	
	059	349	A01	2	
	062,063	391,392	A01	4	
	502,503	362,363	A01	4	
XR	501-506	225,230,238,247,257,271	A01	12	
	507-512	280,291,292,304,308,314	A01	12	
	513-517	315,317,327,336,338	A01	10	
XW	501-505	347,354,357,373,411	A01	10	
XZ	003,004	189,190	A01	4	
	101-106	234,235,288,3331,343	A01	12	
	107,108	395,407	A01	4	

NOTE: Two kits are required per aircraft

Aircraft MSN 364, 385, 412 and subsequent have the content of this Service Bulletin embodied with Mod. 22995 (Service Bulletin A320-21-1051).

Accomplishment of this Service Bulletin cancels the inspection requirements of Service Bulletin A320-21-1057.

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SERVICE BULLETIN

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(3) Spares

None

B. REASON

(1) History

During a routine check of the pack-outlet door area, some operators have found that some of the outlet door attachment bolts were loose.

(2) Objective/Action

This Service Bulletin introduces the modification of the ram-air outlet flap with threaded inserts to avoid loosening of the bolts, and also the installation of a new improved lever.

(3) Advantages

The accomplishment of this Service Bulletin will ensure correct operation of the ram-air outlet components.

(4) Operational/Maintenance Consequences

None

(5) Accomplishment Timescale

In accordance with the operators maintenance planning.

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C. DESCRIPTION

To accomplish this Service Bulletin it is necessary to :

- (1) Get access to the ram-air outlets, LH and RH.
- (2) Remove the ram-air outlet flaps, LH and RH.
- (3) Modify the ram-air outlet flaps, LH and RH.
- (4) Install the ram-air outlet flaps, LH and RH
- (5) Test the pack temperature control-system.
- (6) Install the belly fairing-access panels.
- (7) Close-up.

D. APPROVAL

The technical information including design data contained in this Service Bulletin has been approved under the authority of DGAC Design Organisation Approval No. F.JA.O2. The changes specified in this Service Bulletin have been approved by the DGAC when they are major, or under the authority of DGAC Design Organisation Approval No. F.JA.O2, when they are minor.

E. MANPOWER

This Service Bulletin is written for an aircraft in a maintenance condition. The manhours/elapsed time estimates do not include the time to prepare for the modification, non-productive elapsed times or administration.

Kit No. 211098A01

Gain access	1.50
Modification	12.00
Test	0.50
Close-up	2.50
TOTAL MANHOURS	16.50
ELAPSED TIME (HOURS)	8.50

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F. MATERIAL - COST AND AVAILABILITY

(1) Material

Customers with aircraft shown in paragraph 1.A.(2) should send a purchase order to Airbus Industrie. Quote the number of this Service Bulletin. The address is:

AIRBUS INDUSTRIE
MATERIEL SUPPORT CENTER
P.O. Box 630262
22312 HAMBURG
GERMANY

(2) Cost and Availability

Kit No. Cost Availability 211098 (US Dollars) (Calendar days from receipt of order)

AO1 FOC

The kit lead time quoted above is the standard lead time calculated from the date of purchase order. If this does not meet your requirement, please include a Service Bulletin planning schedule with your order so that we can try to plan the kit production accordingly.

G. TOOLING - PRICE AND AVAILABILITY

The tool PERMA THREAD 1037-1F 10-32 or the tool BOELLHOFF HC UNF 10-32, PN 0150 9169 704 (already modified) or PN 0150 0169 700 (not modified) must be available to accomplish this Service Bulletin.

NOTE: The tool PERMA THREAD 1037-1F 10-32 has to be modified by the operator in accordance with the dimensions shown in Figure 1 of this Service Bulletin.

or

NOTE: The tool BOELLHOFF HC UNF 10-32 PN 0150 0169 700 has to be modified by the operator in accordance with the dimensions shown in Figure 2 of this Service Bulletin.

Boellhoff GmbH have allocated a tool for installation of threaded inserts. Customers interested in modifying the ram-air outlet flaps, LH and RH in accordance with this Service Bulletin should contact:

BOELLHOFF GmbH Archimedesstrasse 1-4 33649 Bielefeld GERMANY

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H. WEIGHT AND BALANCE

Kit No. 211098A01

Manufacturers Empty Weight : 0.250 kg (0.551 lb.)

Effect on Balance : 4.674 kgm (33.796 lb.ft.)

I. REFERENCES

Aircraft Maintenance Manual (AMM) : 06-41-53, 12-34-24, 20-28-00,

21-61-00, 21-61-52, 29-22-00,

52-10-00, 53-35-13

Service Bulletin (SB) : A320-21-1051, A320-21-1057

Consumable Material List (CML)

The following design drawings, as listed below, are necessary for this

modification:

Drawing: D21571037000, sheet 1 and 2

Drawing: D21571037002, sheet 3

J. PUBLICATIONS AFFECTED

Illustrated Parts Catalog (IPC) : 21-61-03

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2. ACCOMPLISHMENT INSTRUCTIONS

A. GENERAL

WARNING : MAKE SURE THAT YOU OBEY ALL THE WARNINGS AND ALL THE CAUTIONS

INCLUDED IN THE REFERENCED PROCEDURES.

WARNING : MAKE SURE THAT NO AIR IS SUPPLIED TO THE AIR CONDITIONING

SYSTEM FROM THE MAIN ENGINE, THE APU OR A GROUND SOURCE.

(1) Preparation

- (a) Make sure that the aircraft is electrically grounded (Refer to AMM 12-34-24, P. Block 201).
- (b) Put the access platform in position.
- (c) Open the FWD passenger/crew door (Refer to AMM 52-10-00, P. Block 201).
- (d) Open, safety and tag these circuit breakers for connector 9HH:

PANEL	SERVICE	IDENT.	LOCATION	
122V U	AIR COND/PACK TEMP/CTL SYS1/1/115VAC	1HH	X22	
122VU	AIR COND/PACK TEMP/CTL SYS1/1/28VAC	ЗНН	X21	
122VU	AIR COND/PACK TEMP/CTL SYS2/1/28VAC	4НН	Y19	
122VU	AIR COND/PACK TEMP/CTL SYS2/1/115VAC	2НН	Y18	

(e) Open, safety and tag these circuit breakers for connector 29HH:

122VU	AIR COND/PACK TEMP/CTL SYS1/2/115VAC	2нн	W22
122VU	AIR COND/PACK TEMP/CTL SYS1/2/28VAC	23нн	W21
122VU	AIR COND/PACK TEMP/CTL SYS2/2/28VAC	24нн	Y21
122VU	AIR COND/PACK TEMP/CTL SYS2/2/115VAC	22HH	Y20

- (f) Put a warning notice in the cockpit to tell the persons not to operate the air cooling system.
- (g) Remove and retain the belly-fairing access panels 191KB, 192KB 195AB and 196AB (Refer to AMM 06-41-53, P. Block 1) and (Refer to AMM 53-35-13, P. Block 401).

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- (h) Put blanking caps on open duct ends.
- (i) Put blanking caps on disconnected line ends.
- (j) For threaded insert installation modify the tool PERMA THREAD 1037-1F 10-32, item (1), with the dimensions as shown in Figure 1, or the tool BOELHOFF HC UNF 10-32 (PN 0150 0169 700) in accordance with the dimensions shown in Figure 2, of this Service Bulletin.

(2) Standard Practices

- (a) Refer to the CML for the specification of the material numbers.
- (b) Clean the work area with cleaning agent, Mat. No. 11-016.
- (c) Do electrical bonding in accordance with the AMM 20-28-00, P. Block 201.
- (d) Install screws with anti-corrosion compound, Mat. No. 05-002.
- (e) To torque threaded components refer to drawing D21571037000.

B. MODIFICATION

(1) Kit No. 211098A01

Refer to drawing D21571037000, sheet 1 and 2

- (a) Modification of the ram-air outlet LH and RH
 - 1 Remove the ram-air outlet (Refer to AMM 21-61-52, P. Block 401).
 - <u>2</u> Remove the ram-air outlet flap (Refer to AMM 21-61-52, P. Block 401).

Refer to drawing D21571037002, sheet 3.

- 3 Install the 4 inserts MS21209F1-20, item 32 with sealant Mat. No. 09-013.
- 4 Re-identify the ram-air outlet flap in accordance with para. 3.D. of this Service Bulletin.
- 5 Install the ram-air outlet flap (Refer to AMM 21-61-52, P. Block 401) and adjust the ram air outlet flap (Refer to AMM 29-22-00, P. Block 501) with the new lever D2157104600400, item 0 as shown in drawing D21571037000, sheet 1 and 2.

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6 Install the ram-air outlet (Refer to AMM 21-61-52, P. Block 401).

C. TESTS

- (1) Remove the safety clips and tags and close the circuit breakers 1HH, 2HH, 3HH, 4HH, 21HH, 22HH, 23HH and 24HH.
- (2) Energize the aircraft electrical circuits (Refer to AMM 24-41-00, P. Block 201).
- (3) Do the operational test of the pack temperature control-system (Refer to AMM 21-61-00, P. Block 501).

D. CLOSE-UP

- (1) Make sure that the work areas are clean and clear of tools and other items of equipment.
- (2) Install the retained belly-fairing access panels 191KB, 192KB 195AB and 196AB (Refer to AMM 06-41-53, P. Block 1) and (Refer to AMM 53-35-13, P. Block 401).
- (3) Remove the warning notice from the cockpit.
- (4) Close the FWD passenger/crew door (Refer to AMM 52-10-00, P. Block 201).
- (5) Remove the access platform.
- (6) Put the aircraft to a normal operating condition.

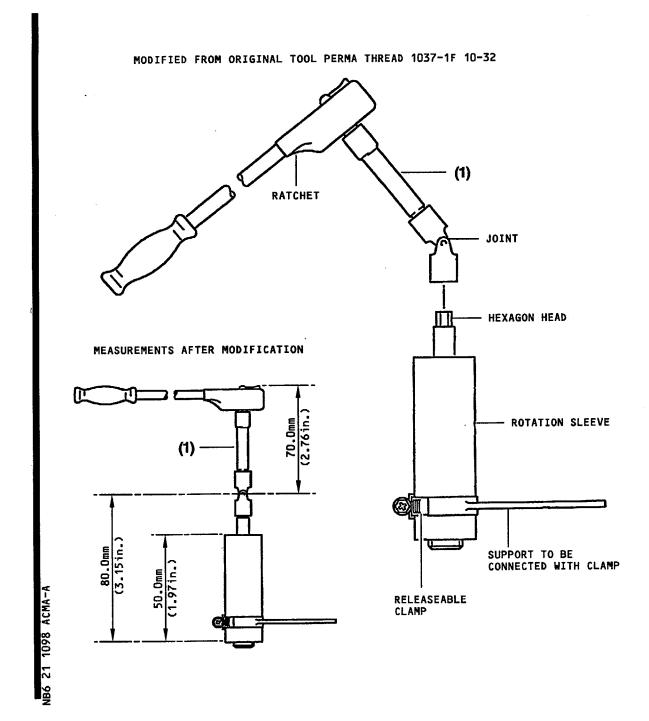
E. DOCUMENTATION

Write in the applicable aircraft records that you have done all the work given in this Service Bulletin.

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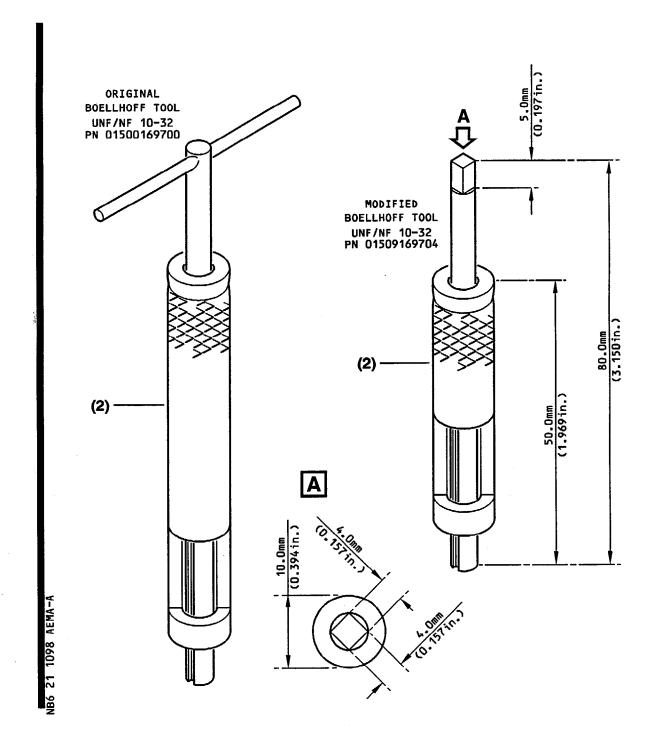
Modification of PERMA THREAD Tool Figure 1 Sheet 1

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Modification of the Boellhoff Tool Figure 2 Sheet 1

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3. MATERIAL INFORMATION

A. LIST OF COMPONENTS

QTY	NEW PART NO.	KEYWORD	DRAWING NO.	ITEM	INST DISP
Kit No	. 211098A01				
1	D2157104600400	Lever	D21571037000	0	(A)
1	NAS1304-8	Bolt	D21571037000	4	
1	NAS509-4	Nut	D21571037000	6	
- 1	NSA5355-4CA	Washer	D21571037000	8	
1	NAS6704U11	Bolt	D21571037000	10	
1	MS21043-4	Nut	D21571037000	12	
1	NAS1149C0432R1	Washer	D21571037000	14	
1	MS21043-5	Nut	D21571037000	16	
1	NSA5304-81	Washer	D21571037000	18	
1	MS21043-3	Nut	D21571037000	20	
1	NAS1149C0332R	Washer	D21571037000	22	
4	NAS6703HU1	Bolt	D21571037000	26	
4	MS21209F1-20	Insert	D21571037002	32	
(A Di) scard				

NOTE: Two kits are required per aircraft.

B. SPECIAL TOOLS

ITEM	PART NO.	QTY DESCRIPTION
<u>Kit</u>	No. None	
(1)	1037-1F 10-32	1 PERMA THREAD
(2)	0150 0169700	<pre>1 BOELHOFF, HC UNF 10-32, (unmodified)</pre>
(2)	0150 9169704	<pre>1 BOELHOFF, HC UNF 10-32, (modified)</pre>

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C. LIST OF MATERIAL - OPERATOR SUPPLIED

DESCRIPTION	REFERENCE TO CML	QTY PER A/C
Anti-corrosion compound	(Mat. No. 05-002)	As required
Sealant	(Mat. No. 09-013)	As required
Cleaning agent	(Mat. No. 11-016)	As required

D. PARTS TO BE RE-IDENTIFIED BY OPERATOR

ITEM NEW PART NO.	KEYWORD	ITEM	OLD PART NO.	INT
D2157103700200	Ram-air		D2157103000000	

DATE : Aug 20/96 SERVICE BULLETIN No. : A320-21-1098

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SERVICE BULLETIN

AIRBUS INDUSTRIE
CUSTOMER SERVICES DIRECTORATE
1 Rond Point Maurice Bellonte
31707 BLAGNAC CEDEX FRANCE

Tel : (33) 5 61-93-33-33 Telex : AIRBU 530526F

FAX : (33) 5 61-93-41-06

TITLE : AIR CONDITIONING - AIR COOLING SYSTEM - INTRODUCE A MODIFIED RAM-AIR

OUTLET

MODIFICATION No.: 25459K4419 ATA SYSTEM: 21

IS BEING HEREWITH SUBMITTED TO YOU FOR REVIEW

Please fill:

... REJECTED

... WILL BE EMBODIED

... EFFECTIVITY

This SB can only be incorporated in your "customized" documentation within the agreed time schedule if this sheet is returned to us on the purchase date and signed by a duly authorized and empowered officer or representative.

FROM:
AIRLINE:
NAME:
DATE:

Please return to:

AIRBUS INDUSTRIE
CUSTOMER SERVICES DIRECTORATE
1 Rond Point Maurice Bellonte
31707 BLAGNAC CEDEX FRANCE

Attn : AI/SE-D32 Technical Data

and Documentation Services

FAX : (+33) 5 61-93-28-06

6 DATE : Aug 20/96

SERVICE BULLETIN No.: A320-21-1098

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