SERVICE BULLETIN SUMMARY

AIRBUS INDUSTRIE
CUSTOMER SERVICES DIRECTORATE
1 Rond Point Maurice BELLONTE
31707 BLAGNAC CEDEX FRANCE
Tel: (33) 5 61-93-33-33

Telex: AIRBU 530526 F

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

TITLE: AIR CONDITIONING - FLOW CONTROL AND INDICATING - INTRODUCE MODIFIED

AIR CONDITIONING FOR EVALUATION

MODIFICATION No.: 26249K04574 26792K05213 ATA SYSTEM: 21

REASON/DESCRIPTION/OPERATIONAL CONSEQUENCES

To gain potential for improvements on system level, the Environmental Control System (ECS) has been investigated. The objectives for such improvements are higher reliability by improved Mean Time Between Unscheduled Removal Guaranteed (MTBURG), better maintainability with lower maintenance costs and greater commonality with other aircraft types.

This Service Bulletin introduces an improved pack temperature controller in the avionics compartment, a new flow control valve, pressure sensor and pack inlet pressure sensor.

The MTBURG for the new flow control valve is increased from 4,800 to 7,000 flight hours.

The modification is to be installed for evaluation purposes on LH or RH side only.

EFFECTIVITY

This Service Bulletin is applicable to these customer(s): AFR, SWR.

SERVICE BULLETIN TO BE ACCOMPLISHED PREVIOUSLY OR SIMULTANEOUSLY

Service Bulletin No. A320-21-1082 (Mod. No. 24094K3554

REFERENCES/REPERCUSSIONS

TFU : None

OEB : None

AOT : None

SIL : None

LIFE LIMIT : None

LINE MAINTENANCE AFFECTED : None

OTHER : None

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SERVICE BULLETIN SUMMARY

NATURE OF THE WORK

Kit No. 211906A01

AIRCRAFT: YES

EQUIPMENT: NO

HARD : NO SOFT : NO

OBRM : NO

COMPLIANCE

Optional

MANPOWER

Kit No. 211906A01

TOTAL MANHOURS 8.00

ELAPSED TIME (HOURS) 8.00

MATERIAL INFORMATION

AIRCRAFT DATA

Kit No. 211906A01

2 hoses, clamps and associated hardware.

EQUIPMENT DATA

Kit No. 211906A01

Designation: Flow Control Valve (8HB and 11HB)

Supplier: LIEBHERR AERO TECHNIK GmbH

Service Bulletin No. None

Old Part Number 751A0000-07 751B0000-02

New Part Number 1303A0000-01

Interchangeability code 03 (Refer to ATA 200 Chapter 1A-2)

Mixability: NO

Designation : Pressure Sensor (9HB and 10HB)

Supplier: LIEBHERR AERO TECHNIK GmbH

Service Bulletin No. None
Old Part Number 9104A0003-01
New Part Number 9106A0005-01

Interchangeability code 03 (Refer to ATA 200 Chapter 1A-2)

Mixability: NO

Designation: Pressure Sensor (16HH and 36HH)

Supplier: LIEBHERR AERO TECHNIK GmbH

Service Bulletin No. None
Old Part Number 768A0000-03
New Part Number 9104A0006-01

Interchangeability code 03 (Refer to ATA 200 Chapter 1A-2)

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SERVICE BULLETIN SUMMARY

Mixability: NO

Designation: Pack Controller (7HH and 27HH)

Supplier: LIEBHERR AERO TECHNIK GmbH

Service Bulletin No. None

Old Part Number 759A0000-10 759C0000-02

New Part Number 759D0000-01

Interchangeability code 03 (Refer to ATA 200 Chapter 1A-2)

Mixability: YES

NOTE: Flow Control Valve (8HB and 11HB) old part number

751A0000-07 or 751B0000-02 can be installed.

Pack Controller (7HH and 27HH) old part number 759A0000-10

or 759C0000-02 can be installed.

APPENDICES

None

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TITLE: AIR CONDITIONING - FLOW CONTROL AND INDICATING - INTRODUCE MODIFIED

AIR CONDITIONING FOR EVALUATION

MODIFICATION No.: 26249K04574 26792K05213 ATA SYSTEM: 21

1. PLANNING INFORMATION

A. EFFECTIVITY

(1) Aircraft models: 319-112, 319-113, 320-111, 320-211, 320-212,

320-214, 321-111, 321-211

(2) Aircraft

Customer and Fleet No.	MSN	Kit No. 211906	Qty of kits	Config No.
AFR001, 002	005,007	A01		
004-009	014,019,020,021,002,004	A01		
010-013	003,010,012,013	A01		
015	016	A01		
031-036	061,062,063,100,101,102	A01		
037-042	128,129,133,186,187,188	A01		
043-048	226,227,228,285,286,287	A01		
066-068	033,036,044	A01		
071-076	108,115,130,155,156,184	A01		
077-078	214,239	A01		
080-085	278,337,352,236,237,377	A01		
101-105	498,509,521,529,544	A01		
131, 132	777,796	A01		
201, 202	144,145	A01		
211, 212	420,436	A01		
226, 227	131,132	A01		
231, 332	203,220	A01		
301, 302	204,211	A01		
305	085	A01		
401-403	215,244,270	A01		
411, 412	491,525	A O 1		

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Customer and Fleet No.	MSN	Kit No. 211906	Qty of kits	Config No.
501-503	674,675,684	A01		
901-906	598,600,608,618,625,637	A01		
947-949	644,647,660	A01		
SWR201-206	578,588,612,621,629,713	A01		
207-208	727,734	A01		
226-231	533,545,548,553,559,562	A01		
232-237	566,574,577,585,596,603	A01		
238-243	635,643,673,681,701,703	A01		
276-281	517,519,520,522,535,541	A01		
282-283	642,664	A01		

This Evaluation Service Bulletin is only applicable on one aircraft from each fleet among those listed above. The MSN of this aircraft will be given to Airbus Industrie.

To do this Service Bulletin you must do Service Bulletin No. A320-21-1082 (Mod. No. 24094K3554) before or at the same time.

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(3) Spares

None

B. REASON

(1) History

To gain potential for improvements on system level, the Environmental Control System (ECS) has been investigated. The objectives for such improvements are higher reliability by improved Mean Time Between Unscheduled Removal Guaranteed (MTBURG), better maintainability with lower maintenance costs and greater commonality with other aircraft types.

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(2) Objective/Action

This Service Bulletin introduces an improved pack temperature controller in the avionics compartment, a new flow control valve, pressure sensor and pack inlet pressure sensor.

The modification is to be installed for evaluation purposes. The evaluation should be accomplished for three months on LH or RH side only.

(3) Advantages

The MTBURG for the new flow control valve is increased from 4,800 to 7,000 flight hours.

(4) Operational/Maintenance Consequences

None

(5) Accomplishment Timescale

In accordance with operators' maintenance schedule.

C. DESCRIPTION

To accomplish this Service Bulletin it is necessary to :

- (1) Remove the pack controller in the electronics rack 90VU.
- (2) Modify the wiring and the equipment in the shelves 95VU and 90VU.
- (3) Install the new pack controller in the electronics rack 90VU.
- (4) Remove the flow control valve in the zone 191 or 192.
- (5) Remove the pressure sensor in the zone 191 or 192.
- (6) Install the new pressure sensor in the zone 191 or 192.
- (7) Install the new hose on LH side, zone 191 or on RH side, zone 192.
- (8) Install the new flow control valve in the zone 191 or 192.

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.

On aircraft

Get access 1.50

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(A319/A320/A321
	SERVICE BULLETIN

Removal of controller pack	0.50
Modification of the wiring	1.00
Installation of controller packs	0.50
Removal of the control valve and sensors	0.75
Installation of the control valve and sensors	0.75
Test	1.50
Close-up	1.50
TOTAL MANHOURS	8.00
ELAPSED TIME (HOURS)	8.00
After evaluation	
Restoration of the aircraft to its initial config.	8.00
TOTAL MANHOURS	8.00
ELAPSED TIME (HOURS)	8.00

F. MATERIAL - COST AND AVAILABILITY

(1) Material

Contact the following address for Kit management:

Daimler-Benz Aerospace Airbus

Dept. ESD

ATTN: R. Schmidt Kreetslag 10 21129 HAMBURG

Tel.: 040/7437-3855 Fax: 040/7437-3787

(2) Cost and availability

Kit No. Cost (US Dollars)

Availability : Calendar days from receipt of order

211906A01 FOC

G. TOOLING - PRICE AND AVAILABILITY

None

H. WEIGHT AND BALANCE

Not changed

I. REFERENCES

Aircraft Maintenance Manual (AMM) : 21-51-11, 21-51-51, 21-61-16,

21-61-34

Service Bulletin (SB) : A320-21-1082

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J. PUBLICATIONS AFFECTED

Illustrated Parts Catalog (IPC) : 21-61-08

Aircraft Wiring Manual (AWM) : 21-61-01, 21-61-06

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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 THE GROUND SAFETY-LOCKS ARE IN POSITION ON

THE LANDING GEAR AND THE WHEEL CHOCKS ARE IN POSITION.

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

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

COMPRESSED AIR CAN CAUSE INJURY TO PERSONNEL.

(1) Preparation

- (a) Refer to AMM: 21-51-11, P. Block 401.
- (b) Refer to AMM: 21-51-51, P. Block 401.
- (c) Refer to AMM: 21-61-16, P. Block 401.
- (d) Refer to AMM: 21-61-34, P. Block 401.
- (2) Standard Practices

None

B. MODIFICATION

NOTE: This modification should be accomplished on LH or RH side only.

(1) Remove the pack controller in the electronics rack 90VU

Refer to Figure 1

Refer to AMM: 21-61-34, P. Block 401

1	pack controller	7HH	759A0000-10	Item (1)	Retain
	or				

- 1 pack controller 7HH 759C0000-02 Item (1) Retain and
- 1 pack controller 27HH 759A0000-10 Item (1) Retain or
- 1 pack controller 27HH 759C0000-02 Item (1) Retain
- (2) Modify the wiring and the equipment in the shelves 95VU and 96VU Refer to Figure 2 , 3 and 4
 - (a) Install except for aircraft MSN 588, 612, 621, 629, 713, 727 and 734, in the shelf 96VU:

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Refer to Figure 3

1	module	672VG	E0425A2001	Item 2	
	<pre>(b) Install the), supplied</pre>		the lines 1 and	I 2 (Refer to	Figure 4
1	bundle		D9000095209695		
	route them w	ith the wires	that are in the	panel.	
	(c) Cut the wire connect them		sary length. cri	mp the termin	als and
	(d) Attach the w	ires with :			
10	cable ties		NSA935401-05		
	(e) Do a continu	ity test of th	e new wires.		
(3)	Install the new p	ack controlle	r in the electron	nics rack 90VU	:
	Refer to AMM: 21	-61-34, P. Blo	ock 401		
1	pack controller	7HH	75900000-01	Item 1	
	or				
1	pack controller	27нн	75900000-01	Item 1	
(4)	Remove the flow c		in the zones 19°	1 or 192	
	Refer to Figure 5				
	Refer to AMM: 21		ock 401		
		,			
1	flow ctr valve	8HB	751A0000-07	Item (3)	Retain
	or				
1	flow ctr valve	8нв	751B0000-02	Item (3)	Retain
1	and	опь	73160000-02	rtem (3)	Ketaiii
	anu				
4	£1	4440	75440000 07	T+ /7\	D-4-10
1	flow ctr valve	11HB	751A0000-07	Item (3)	Retain

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or



1	flow ctr valve	11HB	751B0000-02	Item (3)	Retain
		the hoses with	h the items giver	n in the figu	re to
(5)				400	
(5)	Remove the pressur	e sensors in	the zones 191 or	192	
	Refer to Figure 5				
	Refer to AMM: 21-	51-11, P. Blo	ck 401		
1	pressure sensor	9нв	9104A0003-01	Item (6)	Retain
	or				
1		1000	010/40007 01	Item (6)	Datain
ı	pressure sensor		9104A0003-01	Item (6)	Retain
	Refer to AMM: 21-	61-16, P. Blo	ock 401		
1	pressure sensor	16HH	768A0000-03	Item (7)	Retain
	or				
1	pressure sensor	36HH	768A0000-03	Item (7)	Retain
(6)	Install the new pr	essure sensor	s in the zones 1	91 or 192	
	Refer to Figure 6				
	Refer to AMM: 21-	51-11. P. Blo	ock 401		
	Kerer to Allin 21) , bec	70K 101		
1	pressure sensor	9НВ	9106A0005-01	Item 6	
	or				
1	pressure sensor	10HB	9106A0005-01	Item 6	
	Refer to AMM: 21-	61-16, P. Blo	ck 401		
1	pressure sensor	16нн	9104A0006-01	Item 7	
ı		101111	7104A0000-01	T C III I	
	or				
1	pressure sensor	36нн	9104A0006-01	Item 7	
<i>(</i> - <i>)</i>			404		

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(7) Install the new hose on LH side, zone 191

Refer to Figure 6

(a)	Put	the	hose	in	position	and	connect	to	the	pressure	sensor
	10HE	3, it	tem 6	:							

1 hose D2157147104000 Item 30

(b) Install the Hose, item 30, as shown section G-G with:

1 clamp MS21919WCJ6 Item 21

(8) Install the new hose on RH side, zone 192

Refer to Figure 6

(a) Put the hose in position and connect to the pressure sensor 9HB, item 6:

1 hose D2157147104200 Item 20

(b) Install the Hose, item 20, as shown section E-E with:

 2
 clamps
 MS21919WCJ6
 Item 21

 2
 washers
 NAS1149C0332R
 Item 22

2 nuts MS21043-3 Item 23

2 screws A104-1/2D Item 24

1 clamp MS21919WCJ8 Item 25

1 clamp NSA5516-15NJ Item 26

(9) Install the new flow control valves in the zone 191 or 192
Refer to Figure 6

Refer to AMM: 21-51-51, P. Block 401

1 flow ctr valve 8HB 1303A0000-01 Item 3 or

1 flow ctr valve 11HB 1303A0000-01 Item 3

NOTE: Connect the hoses as shown in the figure.

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C. TEST

- (1) Do the test after the removal/installation of the controller packs (Refer to AMM: 21-61-34, P. Block 401).
- (2) Do the leak check and operational test of the flow control and indicating system (Refer to AMM: 21-51-51, P. Block 401).

D. CLOSE-UP

- (1) Refer to AMM: 21-61-34, P. Block 401.
- (2) Refer to AMM: 21-51-51, P. Block 401.
- (3) Refer to AMM: 21-61-16, P. Block 401.
- (4) Refer to AMM: 21-61-34, P. Block 401.

E. DOCUMENTATION

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

F. EVALUATION

During the evaluation do a visual inspection, a leakage test and a system test via MCDU every two weeks or 150 FH.

The restoration has to be done three months after accomplishment of this Service Bulletin.

G. RESTORATION OF AIRCRAFT TO ITS INITIAL CONFIGURATION

Put the aircraft back to the initial configuration.

H. TEST

- (1) Do the test after the removal/installation of the controller packs (Refer to AMM: 21-61-34, P. Block 401).
- (2) Do the leak check and operational test of the flow control and indicating system (Refer to AMM: 21-51-51, P. Block 401).

I. CLOSE-UP

- (1) Refer to AMM: 21-61-34, P. Block 401.
- (2) Refer to AMM: 21-51-51, P. Block 401.
- (3) Refer to AMM: 21-61-16, P. Block 401.
- (4) Refer to AMM: 21-61-34, P. Block 401.

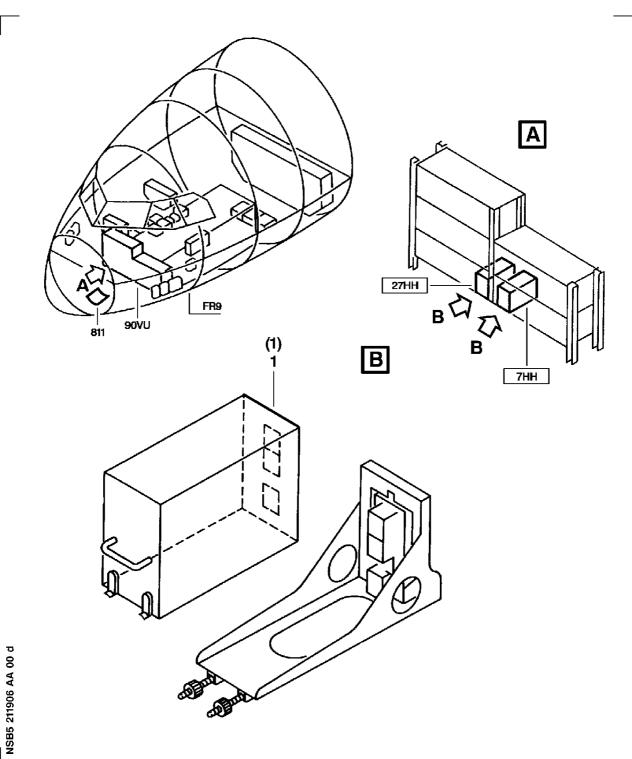
J. DOCUMENTATION

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

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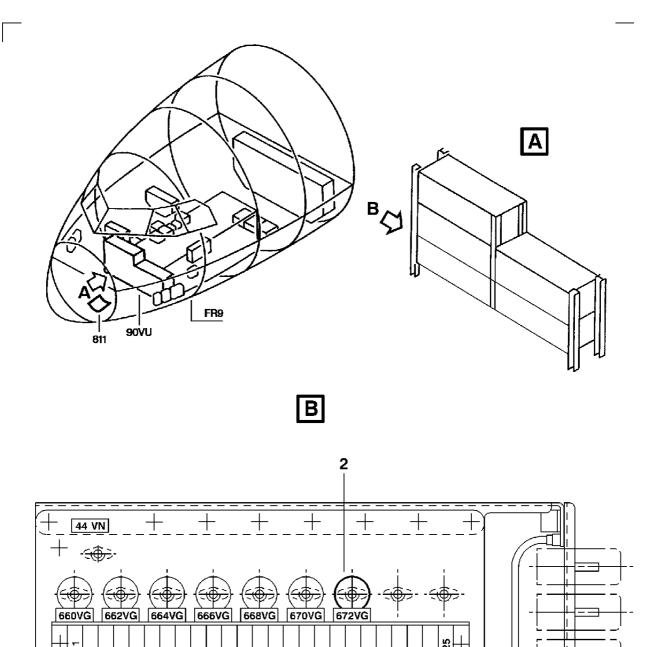
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Removal/Installation of the Pack Controller Figure 1 Sheet 1

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Modification of the Equipment in the Shelf 96VU Figure 2 Sheet 1

[FWD]

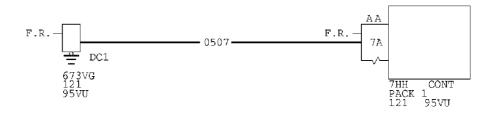
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210VT

NSB5 211906 AC 00 d

AFTER F.R. 0508-DC2 672VG 122 96VU 27HH CONT PACK 2 122 96VU



- NEW WIRE

Г

__ NSB5_211906_AB_01

F.R. FOR REFERENCE

NOTE : UNLESS OTHERWISE SPECIFIED PREFIX ALL WIRE IDENTIFICATION WITH ATA2161 UNLESS OTHERWISE SPECIFIED ALL WIRES ARE CF24 GAUGE UNLESS OTHERWISE SPECIFIED ALL ROUTES ARE 1M

Modification of the Wiring in the Shelves 95VU and 96VU Figure 3 Sheet 1

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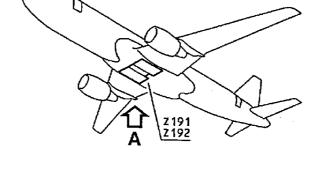
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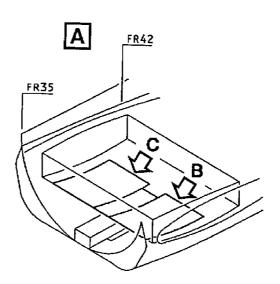


			LEA	D	END 2					
al P/N	Wire Ident.	Со	Rte	Gauge	Leno	gth Inch	Zone or Panel	Elec.Ident.	T	
2200	2161-0507			CF24	2000	80	95VU	673VG		
2200	2161-0508			CF24	2000	80	96VU	672VG		

Hookup Chart Figure 4 Sheet 1

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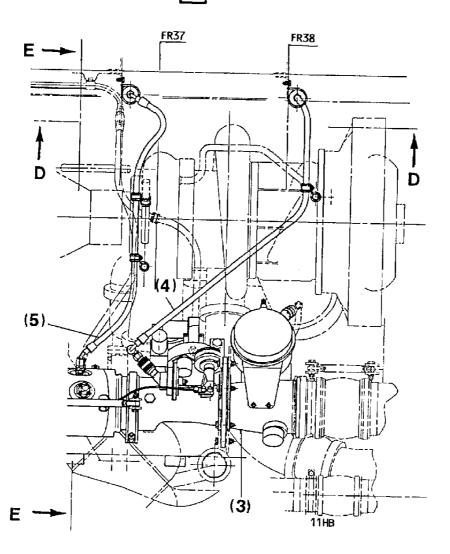


Removal of the Flow Control Valves and Pressure Sensors Figure 5 Sheet 1

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BEFORE

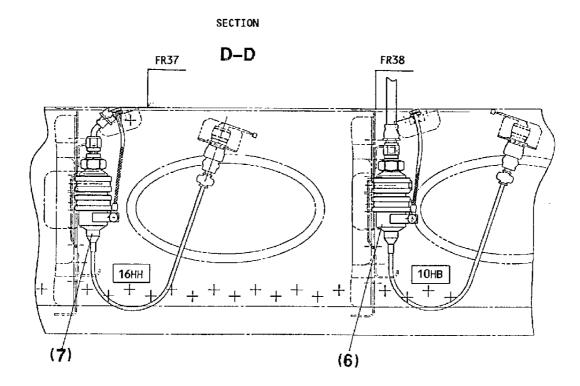




Removal of the Flow Control Valves and Pressure Sensors $\hbox{ Figure 5 Sheet 2}$

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NB6 21 1906 ALMC-A

Removal of the Flow Control Valves and Pressure Sensors ${\hbox{Figure 5 Sheet 3}}$

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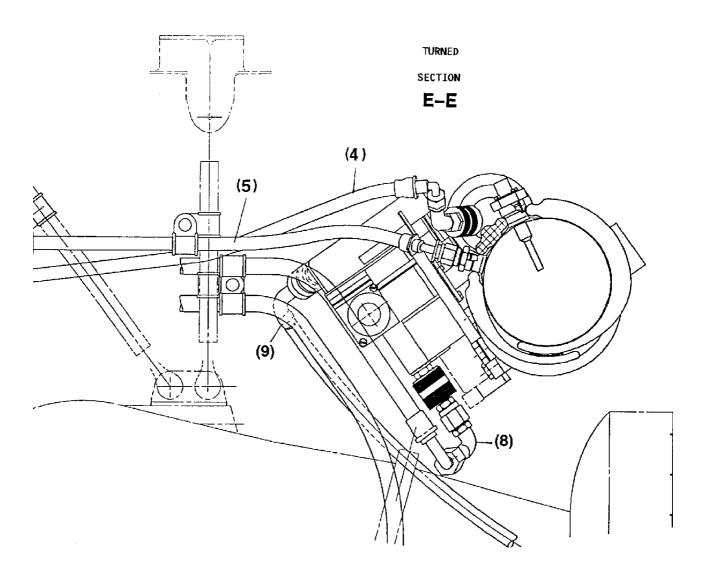


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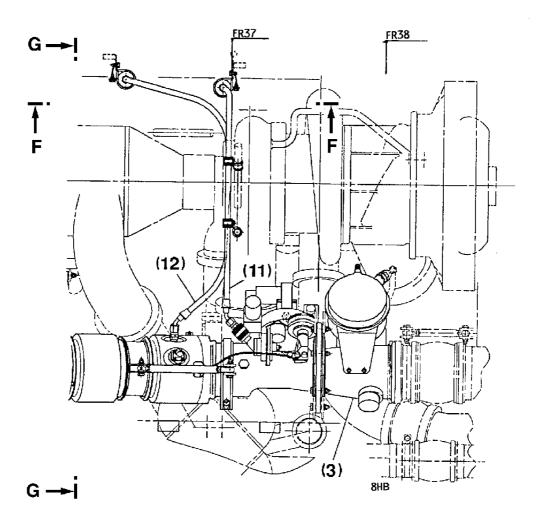


Removal of the Flow Control Valves and Pressure Sensors ${\hbox{Figure 5 Sheet 4}}$

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BEFORE

C

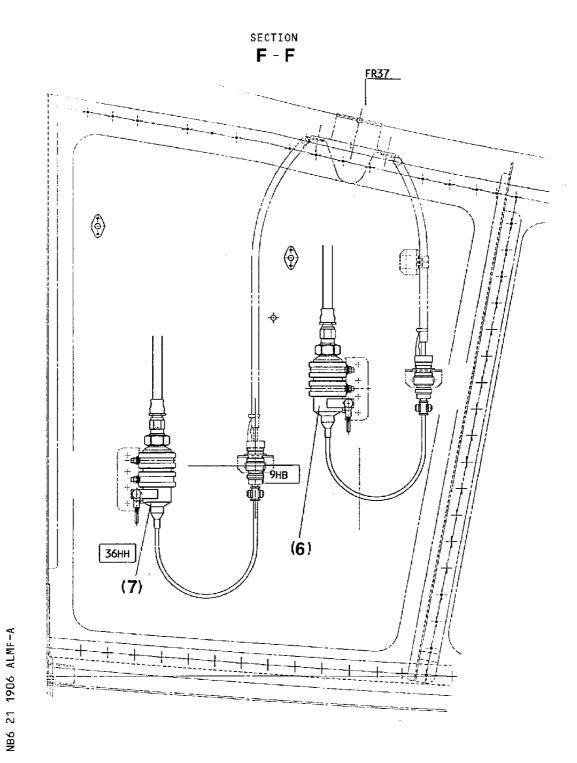


Removal of the Flow Control Valves and Pressure Sensors Figure 5 Sheet 5

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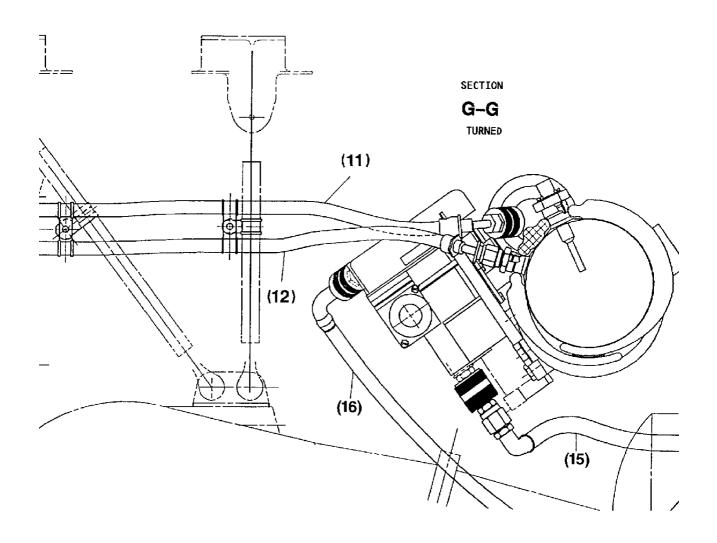


Removal of the Flow Control Valves and Pressure Sensors
Figure 5 Sheet 6

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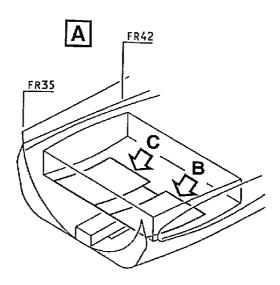




Removal of the Flow Control Valves and Pressure Sensors ${\hbox{Figure 5 Sheet 7}}$

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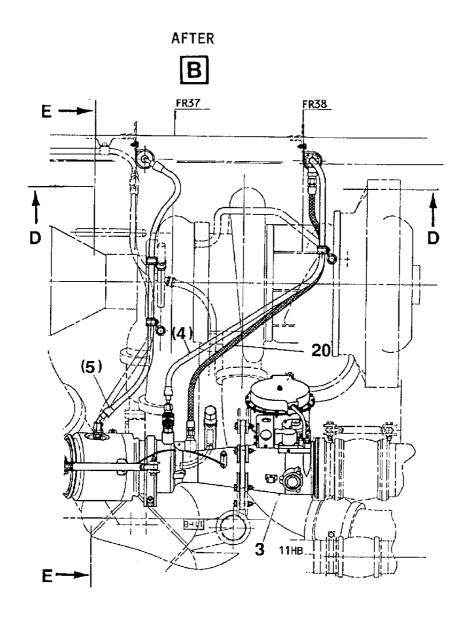
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Installation of the Flow Control Valves and Pressure Sensors
Figure 6 Sheet 1

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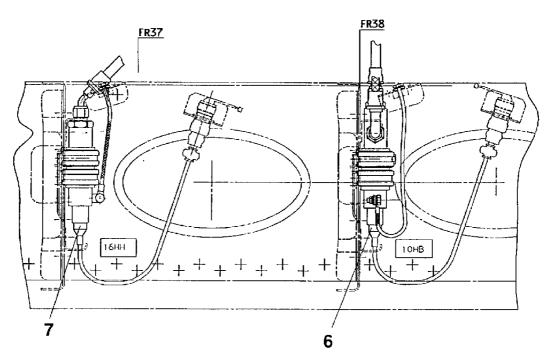


Installation of the Flow Control Valves and Pressure Sensors $\hbox{ Figure 6 Sheet 2}$

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SECTION

D-D



Installation of the Flow Control Valves and Pressure Sensors
Figure 6 Sheet 3

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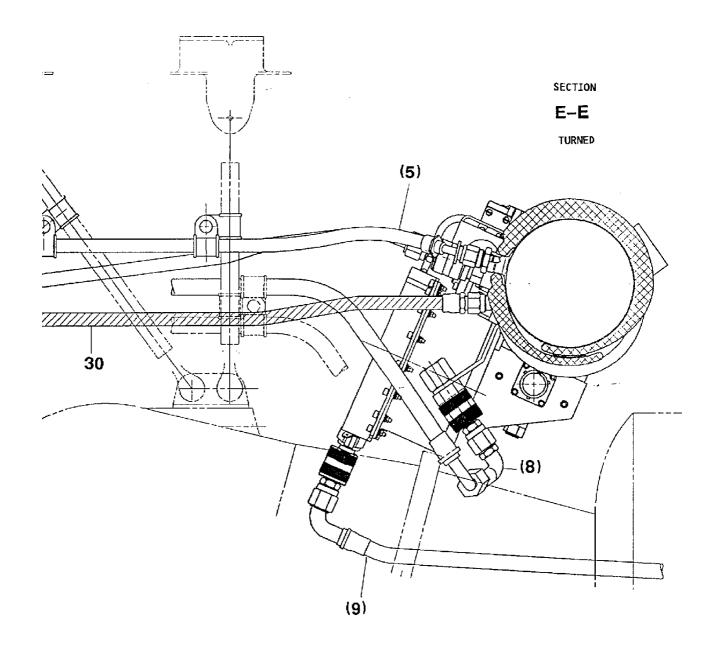


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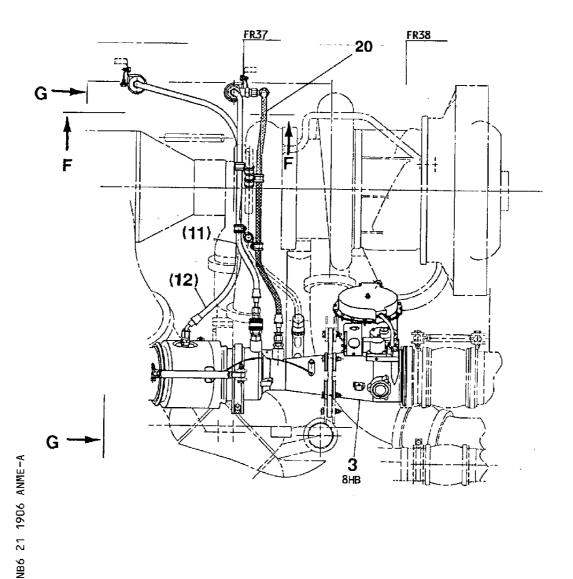
Installation of the Flow Control Valves and Pressure Sensors
Figure 6 Sheet 4

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AFTER

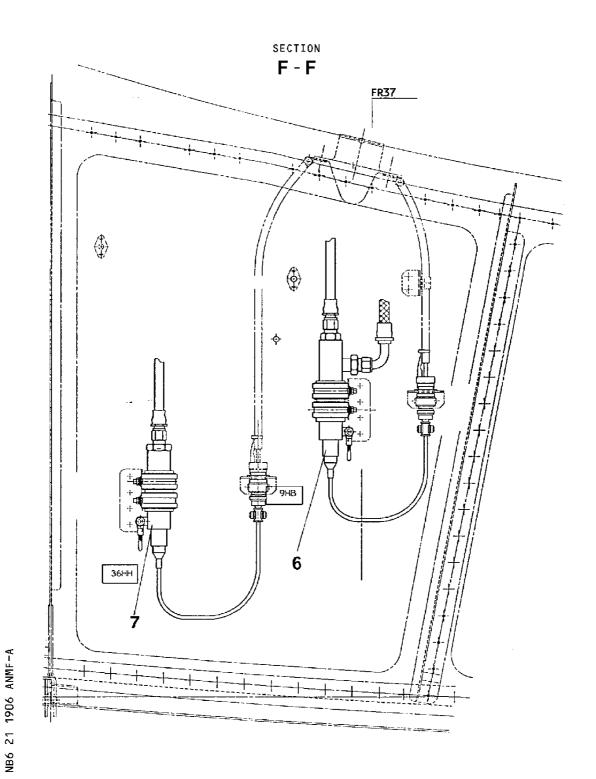




Installation of the Flow Control Valves and Pressure Sensors
Figure 6 Sheet 5

DATE: Feb 24/98 SERVICE BULLETIN No.: A320-21-1906

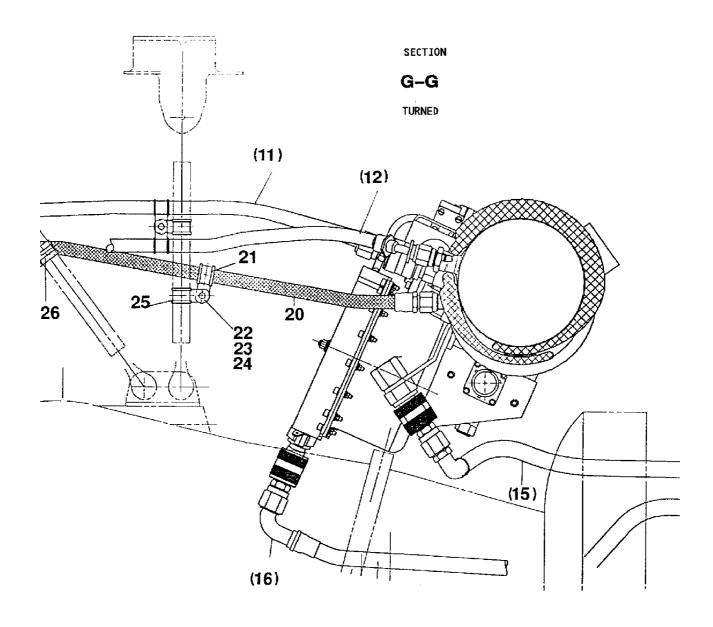
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Installation of the Flow Control Valves and Pressure Sensors
Figure 6 Sheet 6

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Installation of the Flow Control Valves and Pressure Sensors Figure 6 Sheet 7

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3. MATERIAL INFORMATION

A. LIST	0 F	COMPONENTS
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ITEM	NEW PART NO.	QTY	KEYWORD	ITEM	OLD PART NO.	INT INST
Kit No	. 211906A01					DISP
1	75900000-01	1	Pack ctr	(1)		Е
2	E0425A2001	1	Module			
	D9000095209695	1	Bundle			
	NSA935401	10	Tie			
3	1303A0000-01	1	Valve	(3)		F
6	9106A0005-01	1	Sensor	(6)	9104A0003-01	Α
7	9104A0006-01	1	Sensor	(7)	768A0000-03	Α
20	D2157147104200	1	Hose			В
21	MS21919WCJ6	2	Clamp			С
22	NAS1149C0332R	2	Washer			В
23	MS21043-3	2	Nut			В
24	A104-1/2D	2	Screw			В
25	MS21919WCJ8	1	Clamp			В
26	NSA5516-15NJ	1	Clamp			В
30	D2157147104000	1	Hose			D
(A)	Retain					
(B)	RH only.					
(C)	One on LH, tw	o on	RH.			
(D)	LH only.					
(E)	OLD PART NO. old part.	759AO	000-10 or 7	759c0000-	-02 can be insta	lled. Retain
(F)	OLD PART NO. old part.	751AO	000-07 or 7	751B0000-	-02 can be insta	lled. Retain
NOTE 1	:Only flow cont	rol v	valve PN 130	03A0000-	01 with serial n	umbers 0101,

 $\frac{\text{NOTE 1}}{\text{0102, 0103}}$: Only flow control valve PN 1303A0000-01 with serial numbers 0101,

 ${{\hbox{NOTE 2}}\over{\hbox{for both sides.}}}$: The kit should be installed on LH or RH. The kit contains the parts

B. SPECIAL TOOLS

None

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C. LIST OF MATERIAL - OPERATOR SUPPLIED

None

D. PARTS TO BE RE-IDENTIFIED BY OPERATOR

None

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L	END 1			LEAD				END 2							
n e	Zone or Panel	Elec.Ident.	Term	Terminal P/N	Wire Ident.	Co	Rte	Gauge	Leng mm	gth Inch	Zone or Panel	Elec.Ident.	Term	Terminal P/N	Instructions
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25		7нн - аа		E0170FA2200	2161-0507			CF24	2000	80 80	95VU 96VU	673VG 672VG		EN3155-015F2018 EN3155-015F2018	

(a) = BUNDLE D9000095209695

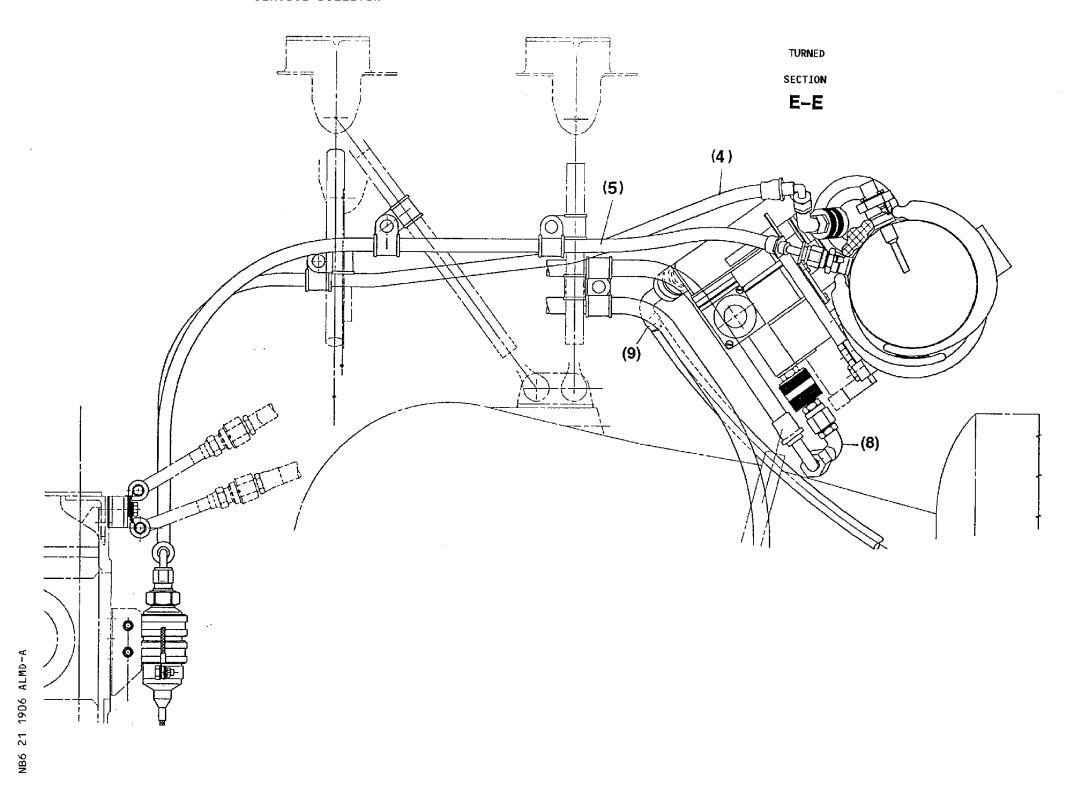
A = ADDED WIRE
GND = GROUND

Hookup Chart

Figure 4 Sheet 1

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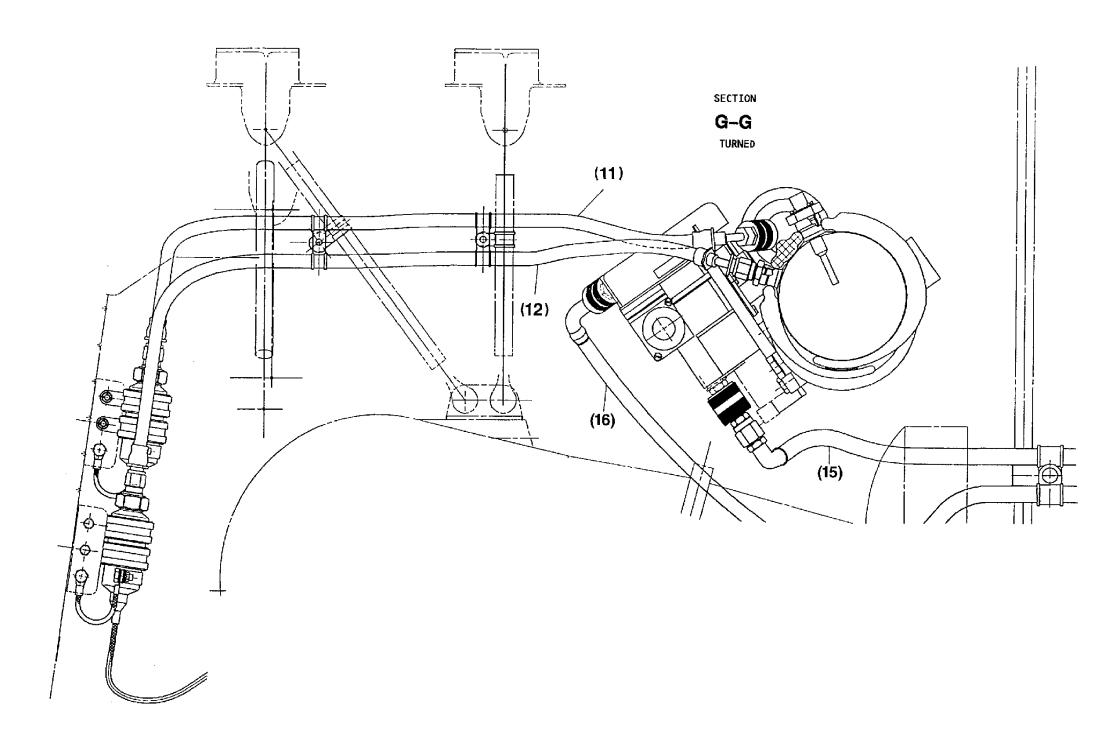


Removal of the Flow Control Valves and Pressure Sensors
Figure 5 Sheet 4

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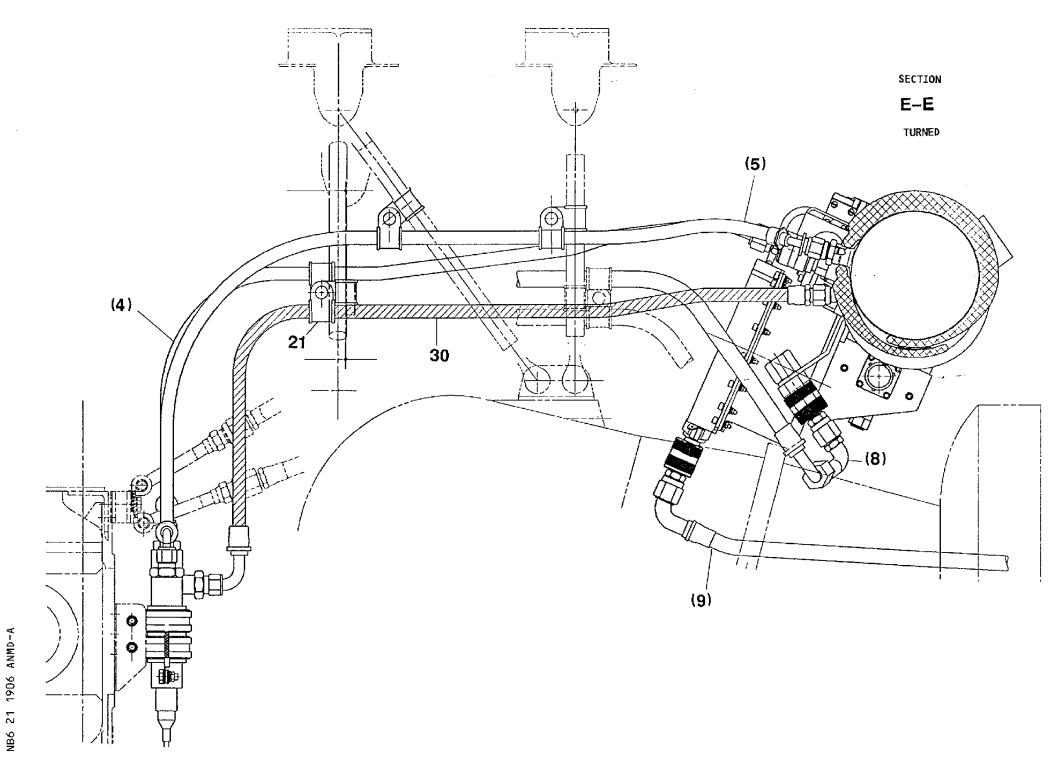


Removal of the Flow Control Valves and Pressure Sensors
Figure 5 Sheet 7

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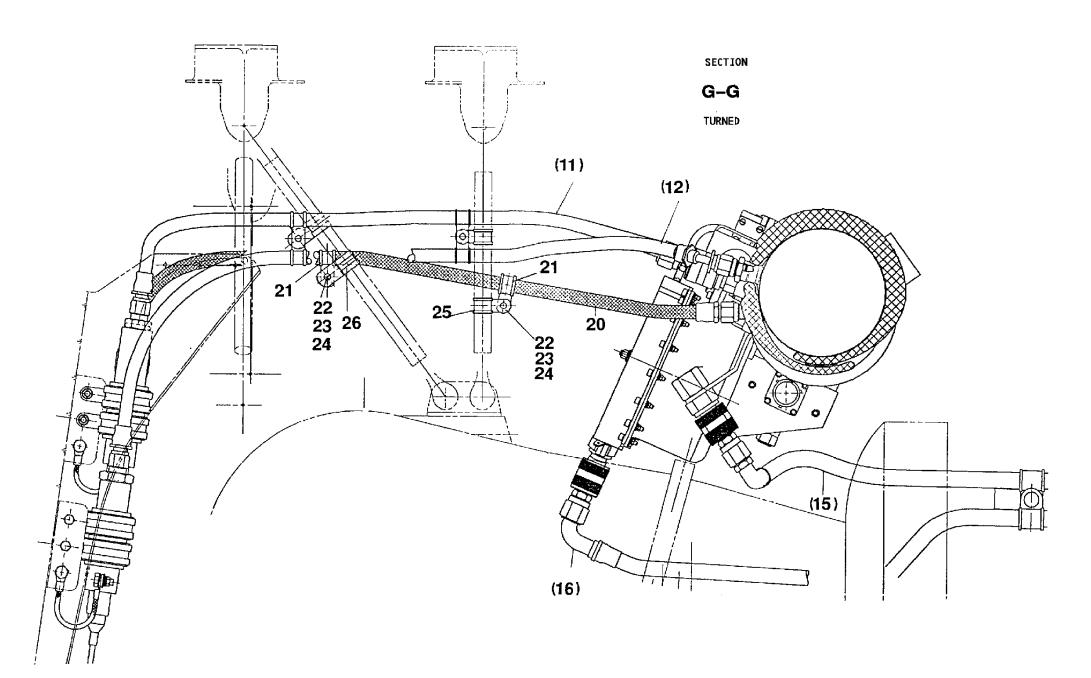


Installation of the Flow Control Valves and Pressure Sensors
Figure 6 Sheet 4

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Installation of the Flow Control Valves and Pressure Sensors
Figure 6 Sheet 7

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ACCEPTANCE/REJECTION SHEET

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

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

TITLE : AIR CONDITIONING - FLOW CONTROL AND INDICATING - INTRODUCE MODIFIED

AIR CONDITIONING FOR EVALUATION

MODIFICATION No. : 26249K04574 26792K05213 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 in so far as this sheet returned to us on purchase date and signed by a duly authorized and empowered officer or representative.

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AIRLINE	:	
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Attn: AI/SE-D32 Technical Data and Documentation Services

FAX: (+33) 5 61 93 28 06

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