

AIRBUS INDUSTRIE
PRODUCT SUPPORT DIRECTORATE
1 Rond Point Maurice BELLONTE
31707 BLAGNAC CEDEX FRANCE
Tel: (33) 61-93-33-33
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SERVICE BULLETIN CHANGE NOTICE

S.B. No. A320-21-1007

REV. 0

DATED: Nov 18/88

Mod. No. 21062/K1048

TITLE: AIR CONDITIONING - AIR GENERATION - MODIFY AIR CONDITIONING PACK

MODEL: All models listed in S.B.

DESCRIPTION

This notice is issued to inform the affected operators that subject Service Bulletin is to be changed as stated below.

SERVICE BULLETIN

- On Page 7/8, Para. B.(14) (c)
From: 1 hose D2157143703200, item 8
To : 1 hose D2157143703000, item 8
- On Page 11, Para. 3.A.
From:

ITEM	NEW P/N	QTY PER KIT A320211007A01		DESCRIPTION	ITEM	OLD P/N
8	D2157143703200	1		Hose	(2)	D2157143700400
				Pipe	(1)	D215714300800

To:

ITEM	NEW P/N	QTY PER KIT A320211007A01		DESCRIPTION	ITEM	OLD P/N
8	D2157143703000	1		Hose	(2)	D2157143700200
				Pipe	(1)	D2157143000800

This change will be incorporated in the next revision of this Service Bulletin; however no revision is planned at the present time.

6 DATE: June 05/89

SERVICE BULLETIN NO: A320-21-1007
CHANGE NOTICE NO: 0A

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DESCRIPTION

This notice is issued to inform the affected operators that subject Service Bulletin is to be changed as stated below.

Service Bulletin

- On Page 4 , Para. 1.F.(3) Cost and Availability

From:

Kit	Cost (US Dollars)	Availability*
A320211007A01		

* Calendar days from receipt of order.

NOTE: Sales terms states (cost and availability) are evaluated with respect to economic conditions at the issue date of this Service Bulletin.

A discount of ten (10) per cent will be accorded to all orders received with a period of 120 days from the original issue date of this Service Bulletin.

To:

Kit	Cost (US Dollars)	Availability*
A320211007A01	Free of charge	180

* Calendar days from receipt of order.

This change will be incorporated in the next revision of this Service Bulletin, however no revision is planned at the present time.

FILING INSTRUCTIONS

File this Change Notice in front of this Service Bulletin.

DATE: JAN 25/93

SERVICE BULLETIN NO: A320-21-1007
CHANGE NOTICE NO: 08

This summary is for information only and
is not D.G.A.C. approved for modification of the aircraft

MODIFICATION NO: 21062/K1048

ATA SYSTEM: 21

T I T L E : AIR CONDITIONING - AIR GENERATION - MODIFY AIR CONDITIONING PACK

REASON

This Service Bulletin is published to advise operators of the issue of LIEBHERR ABG-SEMCA Service Bulletins No. 755A-21-01, 756A-21-01, 747A-21-01, 744A-21-02, 757A-21-02, 748A-21-01 and 767A-21-01.

This publication deals with improving the function and reliability of the Air Conditioning Pack.

ACTION

- | | |
|----------------------------|-----------------------------------------------------------------------------------------------|
| Refer to SB 755A-21-01 | - Introduce 2 drain holes into the housing of the reheaters. |
| Refer to SB 756A-21-01 | - Introduce 2 drain holes into the housing of the condensers. |
| Refer to SB 747A-21-01 | - Introduce a drain hole into the sump housing of the water extractors. |
| Refer to SB 744A-21-02 | - Replace the water extractor temperature sensors with modified sensors. |
| Refer to SB 757A-21-02 | - Replace the air cycle machines with a modified units. |
| Refer to SB 748A-21-01 | - Replace the anti-icing valves with a modified valves, and replace the specified assemblies. |
| Refer to Kit A320211007A01 | - Replace existing hoses and a pipe from anti-icing valves with two hoses and two elbows. |
| Refer to SB 767A-21-01 | - Replace the pack outlet pneumatic sensors with sensors having reduced temperature settings. |

EFFECTIVITY

AFR, BAW, ITF.

COMPLIANCE

Recommended.

MANPOWER

	<u>Aircraft</u>	<u>Bench</u>
Total manhours	18.25	10.75
Elapsed time (hours)	8.00	5.00

MATERIAL INFORMATION

Refer to vendor Service Bulletins No. 755A-21-01, 756A-21-01, 747A-21-01, 744A-21-02, 757A-21-02, 748A-21-01 and 767A-21-01.

MODIFICATION NO: 21062/K1048

ATA SYSTEM: 21

T I T L E : AIR CONDITIONING - AIR GENERATION - MODIFY AIR CONDITIONING PACK

1. PLANNING INFORMATION

A. EFFECTIVITY

(1) Aircraft Model: A320-111

(2) Aircraft

Customer Fleet No.	MSN	Qty of Kits A320211007A01
AFR 001, 002, 004	005, 007, 014	3
BAW 001-003	006, 008, 011	3
ITF 001-003	010, 012, 013	3

NOTE: This modification is embodied prior to delivery on A/C MSN 015 and subsequent.

(3) Spares Affected

(a) Hoses D2157143700400, D2157143700000

(b) Pipe D2157143000800

(c) Refer to Liebherr ABG-Semca Service Bulletins No.:

755A-21-01
756A-21-01
747A-21-01
744A-21-02
757A-21-02
748A-21-01
767A-21-01

B. REASON

This Service Bulletin is published to advise operators of the issue of LIEBHERR ABG-SEMCA Service Bulletins No. 755A-21-01, 7556A-21-01, 747A-21-01, 744A-21-02, 757A-21-02, 748A-21-01 and 767A-21-01.

This publication deals with improving the function and reliability of the air conditioning packs.

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C. DESCRIPTION

Accomplishment of this Service Bulletin consists of incorporating changes to the air conditioning pack which changes pack P/N from 744A0000-06A to 744A0000-07 as follows :

- (1) Drilling 2 drain holes into the housing of the reheaters as detailed in LIEBHERR ABG-SEMCA Service Bulletin No. 755A-21-01.
- (2) Drilling 2 drain holes into the housing of the condensers as detailed in LIEBHERR ABG-SEMCA Service Bulletin No. 756A-21-01.
- (3) Removing the water extractor as per AMM 21-52-16, P. Block 401.
- (4) Drilling a drain hole into the housing of the water extractors as detailed in LIEBHERR ABG-SEMCA Service Bulletin No. 747A-21-01.
- (5) Installing the water extractors as per AMM 21-52-16, P. Block 401.
- (6) As per AMM 21-61-13, P. Block 401:
 - (a) Removing the water extractor temperature sensors.
 - (b) Installing the water extractor temperature sensors modified as per LIEBHERR ABG-SEMCA Service Bulletin No. 744A-21-02.
- (7) As per AMM 21-52-21, P. Block 401:
 - (a) Removing the air cycle machines.
 - (b) Installing the air cycle machines modified as per LIEBHERR ABG-Semca Service Bulletin No. 757A-21-02.
- (8) As per AMM 21-61-41, P. Block 401:
 - (a) Removing the anti-icing valves.
 - (b) Installing the anti-icing valves modified as per LIEBHERR ABG-SEMCA Service Bulletin No. 748A-21-01.
- (9) Removing existing hoses and a pipe from the anti-icing valves and install two hoses and two elbows, as per Kit A320211007A01.
- (10) Replacing the pipe assemblies specified in LIEBHERR ABG-SEMCA Service Bulletin No. 748A-21-01.
- (11) As per AMM 21-61-19, P. Block 401:
 - (a) Removing the pack outlet pneumatic sensors.
 - (b) Installing the pack outlet pneumatic sensors with reduced settings as per LIEBHERR ABG-SEMCA Service Bulletin No. 767A-21-01.

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D. APPROVAL

This Service Bulletin is approved by Direction Generale de L'Aviation Civile - FRANCE (D.G.A.C.).

E. MANPOWER

	<u>Manhours</u>	
	<u>Aircraft</u>	<u>Bench</u>
Gain Access/Close-Up	4.0	
Modification	Ref. LIEBHERR ABG-SEMCA Service Bulletins No. 755A-21-02, 756A-21-01, 747A-21-01, 744A-21-02, 757A-21-02, 748A-21-01 and 767A-21-01	
Test	1.0	
Total manhours	18.25	10.75
Elapsed time (hours)	8.00	5.00

NOTE: This Service Bulletin assumes that the aircraft has been placed in a maintenance status. The manhours/elapsed time estimates do not include preparation for the modification non-productive elapsed time, administrative functions.

F. MATERIAL - COST AND AVAILABILITY

(1) Refer to LIEBHERR ABG-SEMCA Service Bulletins No. 755A-21-02, 756A-21-01, 747A-21-01, 744A-21-02, 757A-21-02, 748A-21-01 and 767A-21-01.

(2) Material

Operators with aircraft listed under paragraph 1.A.(2) above should submit purchase orders quoting this Service Bulletin to:

AIRBUS INDUSTRIE
SPARES SUPPORT CENTER
WEG BEIM JAEGER 150
D2000 HAMBURG 63
GERMANY

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(3) Cost and Availability

Kit	Cost (US Dollar)	Availability*
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A320211007A01 Information will be supplied when available.

* Calendar days from receipt of order.

NOTE: Sales terms states (cost and availability) are evaluated with respect to economic conditions at the issue date of this Service Bulletin.

A discount of ten (10) per cent will be accorded to all orders received within a period of 120 days from the original issue date of this Service Bulletin.

G. TOOLING - PRICE AND AVAILABILITY

Refer to LIEBHERR ABG-SEMCA Service Bulletins No. 755A-21-01, 756A-21-01 and 747A-21-01.

H. WEIGHT AND BALANCE

None

I. REFERENCES

LIEBHERR ABG-SEMCA Service Bulletin: 744A-21-02, 757A-21-02, 748A-21-01, 755A-21-01, 756A-21-01, 747A-21-01, 767A-21-01.

AIRCRAFT MAINTENANCE MANUAL: 21-52-00, 21-52-16, 21-52-21, 21-61-13, 21-61-19, 21-61-41, 12-34-24.

J. PUBLICATIONS AFFECTED

ILLUSTRATED PARTS CATALOG 21-52-21, 21-52-31, 21-52-32, 21-61-04, 21-61-13, 21-61-18, 21-61-41

2. ACCOMPLISHMENT INSTRUCTIONS

A. GENERAL

- (1) Electrically ground the aircraft (Refer to AMM 12-34-24).
- (2) Put the access platforms in position.
- (3) Open the passenger/crew door.
- (4) Open, safety and tag these circuit breakers

PANEL	SERVICE	IDENT.	LOCATION
122VU	AIR COND/PACK TEMP/CTL SYS1/1/115VAC	1HH	X22
122VU	AIR COND/PACK TEMP/CTL SYS1/1/28VDC	3HH	X21
122VU	AIR COND/PACK TEMP/CTL SYS2/1/28VDC	4HH	Y19
122VU	AIR COND/PACK TEMP/CTL SYS2/1/115VAC	2HH	Y18
122VU	AIR COND/PACK TEMP/CTL SYS1/2/115VAC	21HH	W22
122VU	AIR COND/PACK TEMP/CTL SYS1/2/28VDC	23HH	W21
122VU	AIR COND/PACK TEMP/CTL SYS2/2/28VDC	24HH	Y21
122VU	AIR COND/PACK TEMP/CTL SYS2/2/115VAC	22HH	Y20
122VU	AIR COND/FLOW/CTL AND IND/1	1HB	V22
122VU	AIR COND/FLOW/CTL AND IND/2	2HB	V21

- (5) Remove access panels 191KB and 192KB.

B. MODIFICATION

- (1) Drill the two 2 mm (0.079 in.) dia . drain holes in the housing of the reheaters 10HM/3 (11HM/3) as shown in the LIEBHERR ABG-SEMCA Service Bulletin No. 755A-21-01.
- (2) Drill the two 2 mm (0.079 in.) dia. drain holes in the housing of the condensers as shown in the LIEBHERR ABG-SEMCA Service Bulletin No. 756A-21-01.
- (3) Remove the water extractors 10HM8 (11HM8) (Refer to AMM 21-52-16, P. Block 401).
- (4) Drill a 1 mm (0.0393 in.) dia. drain hole in the housing of the water extractors 10HM8 (11HM8) as shown in the LIEBHERR ABG-SEMCA Service Bulletin No. 747A-21-01.
- (5) Install the water extractors 10HM8 (11HM8) (Refer to AMM 21-52-16, P. Block 401).
- (6) Remove the water extractor temperature sensors 11HH (31HH), (Refer to AMM 21-61-13, P. Block 401).

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- (7) Install the water extractor temperature sensors 11HH (31HH) modified as referred to in the LIEBHERR ABG-SEMCA Service Bulletin No. 744A-21-02 (Refer to AMM 21-61-13, P. Block 401).
- (8) Remove the air cycle machines 10HM1 (11HM1) (Refer to AMM 21-52-21, P. Block 401).
- (9) Install the air cycle machines 10HM1 (11HM1) modified as referred to in the LIEBHERR ABG-SEMCA Service Bulletin No. 757A-21-02 (Refer to AMM 21-52-21, P. Block 401).
- (10) Remove the anti-icing valves 17HH (37HH) (Refer to AMM 21-61-41, P. Block 401).
- (11) Install the anti-icing valves 17HH (37HH) modified as referred to in the LIEBHERR ABG-SEMCA Service Bulletin No. 748A-21-01. (Refer to AMM 21-41-61, P. Block 401).

Refer to Figure 1

- (12) Remove hoses and pipe items (1), (2) and (3) between the anti-icing valves LH and RH and existing pipes (Refer to Figure 1).
 - (a) Remove the clamps, items 7 and (5) from hoses, item (2) and (3) and pipe, item (1).
 - (a1) Retain the hardware and the clamps, item 4, discard the clamp, item (5).
 - (b) Remove and discard following parts:
 - 2 hoses, item (2) and (3)
 - 1 pipe, item (1)
- (13) Replace pipe assemblies which are specified in the LIEBHERR ABG-SEMCA Service Bulletin No. 748A-21-01.
- (14) Install hoses items, 7 and 8 and elbows, item 6, to the anti-icing valves LH and RH and to the existing pipes (Refer to Figure 1).

NOTE: For installation of hoses and elbows use sealant Mat. No. 09-016.

- (a) Install to each anti-icing valve:
 - 1 elbow, NSA855120-6C, item 6.
- (b) Install to the elbow, item 6 of the RH anti-icing valve and to the existing pipe:
 - 1 hose 02157143703400, item 7.

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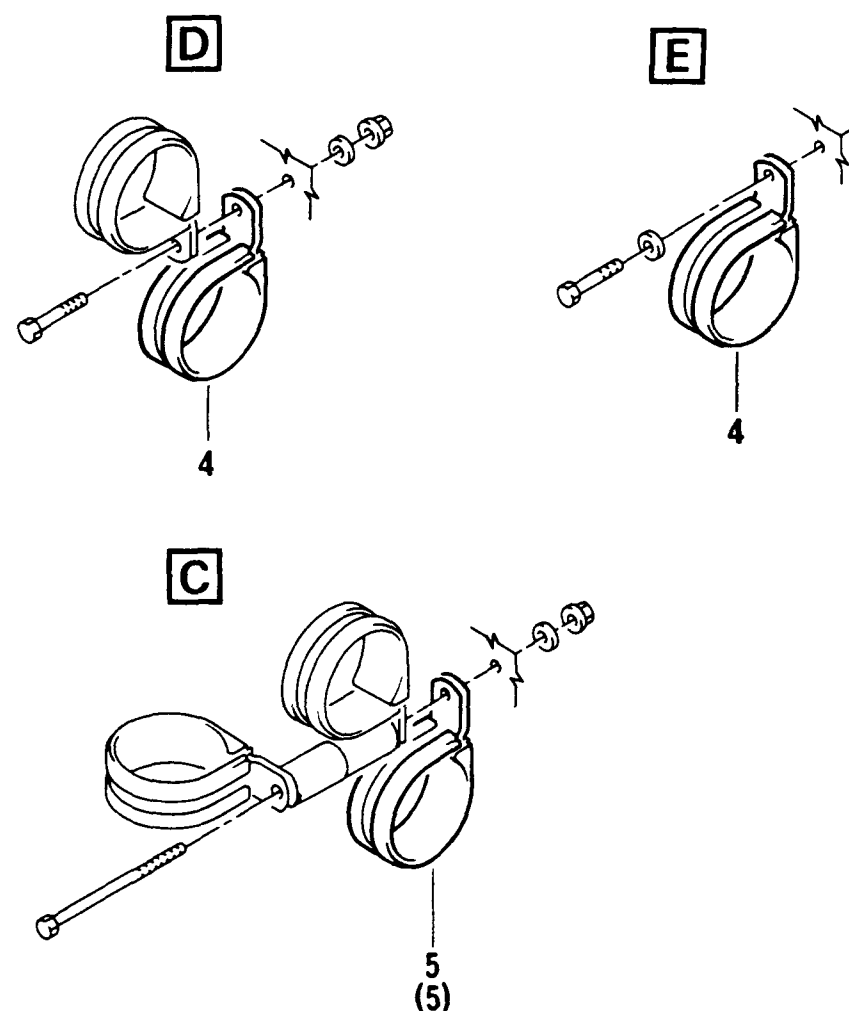
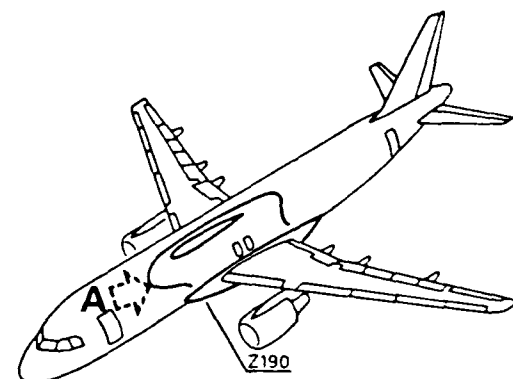
- (c) Install to elbow, item 6 of the LH anti-icing valve and to the existing pipe:
1 hose D2157143703200, item 8.
- (d) Install the retained clamps, item 4, and 1 new clamp NSA5516-13NJ, item 5, to the new installed hoses, use the retained hardware.
- (15) Remove the pack outlet pneumatic sensors 10HM10 (11HM10), (Refer to AMM 21-61-19, P. Block 401).
- (16) Install the pack outlet pneumatic sensors 10HM10 (11HM10), which have a reduced setting as referred to in the LIEBHERR ABG-SEMCA Service Bulletin No. 767A-21-01. (Refer to AMM 21-61-19, P. Block 401).
- (17) Reidentify air conditioning pack as per Para. 3.C.

C. TEST

- (1) Remove the safety clips and tags and close the circuit breakers opened as given in Para. 2.A. (4).
- (2) Do an operational test of the air cooling system (Refer to AMM 21-52-00, P. Block 501).

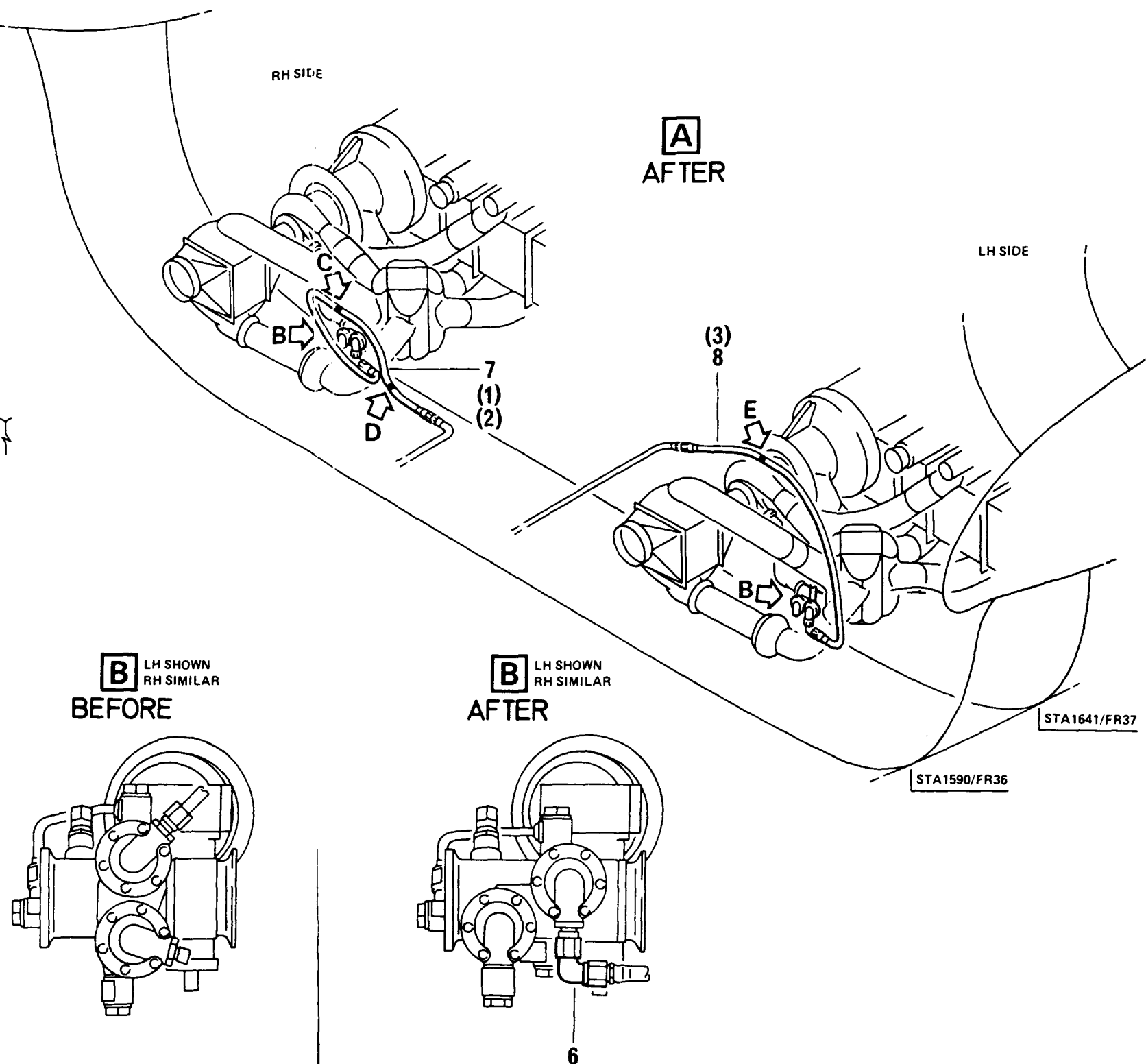
D. CLOSE-UP

- (1) Make sure that the work area is clean and clear of tools and other items.
- (2) Install the access panels 191KB and 192KB.
- (3) Close the passenger/crew door.
- (4) Remove the access platforms.



NOTE: ALL ITEMS IN BRACKETS ARE TO BE DISCARDED

Replacement of Hoses and Pipe with
Hoses and Elbows to the Anti-icing Valves
Figure 1



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3. MATERIAL INFORMATION

Refer to LIEBHERR ABG-SEMCA Service Bulletins No. 755A-21-01, 756A-21-01, 747A-21-01, 744A-21-02, 757A-21-02, 748A-21-01 and 767-21-01.

Basis for the following material data is per aircraft.

A. LIST OF COMPONENTS PER AIRCRAFT

		QTY			
		PER KIT			
ITEM	NEW P/N	A320211007A01	DESCRIPTION	ITEM	OLD P/N
8	D2157143703200	1	Hose	(2)	D2157143700400
7	D2157143703400	1	Hose	(3)	D2157143700000
6	NSA855120-6C	2	Elbow		
5	NSA5516-13NJ	1	Clamp	(5)	NSA5516-10NJ
			Pipe	(1)	D215714300800

B. LIST OF MATERIALS - OPERATOR SUPPLIED

DESIGNATION	AMM 20-31-00	REFERENCE QTY PER A/C
Sealant	Mat. No. 09-016	As required

C. PARTS TO BE REIDENTIFIED BY OPERATOR

NEW PART NO.	DESCRIPTION	OLD PART NO.
744A0000-07	AIR CONDITIONING PACK	744A0000-06A