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AIRBUS  INDUSTRIE

SERVICE BULLETIN  
SUMMARY

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

MODIFICATION NO: 20935/K0937

ATA SYSTEM: 21

T I T L E : AIR CONDITIONING - REPLACE AIR CYCLE MACHINES AND WATER-EXTRACTOR  
TEMPERATURE SENSORS

REASON

Numerous pack faults and overheating have been reported on low life operation air conditioning packs. Shop examinations have highlighted that air cycle machines failures were due to fan wheel damage and bearings seizure. This Service Bulletin recommends that Liebherr ABG-Semca Service Bulletins 744-21-01, 757-21-01 and 764-21-01 be accomplished to restore ACM availability.

ACTION

Replace the ACMS (SB 757-21-01) with improved units. Replace the water-extractor temperature snesors (SB 764-21-01) with an improved unit. Engrave the letter A on the amendment plate of each air conditioning pack (SB 744-21-01).

EFFECTIVITY

AFR, BAW

COMPLIANCE

Recommended

MANPOWER

Total manhours : 5.0  
Elapsed time (hours) : 2.5

MATERIAL INFORMATION

Refer to Liebherr ABG-Semca Service Bulletins  
744-21-01, 757-21-01 and 764-21-01.

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T I T L E : AIR CONDITIONING - REPLACE AIR CYCLE MACHINES AND WATER-EXTRACTOR  
TEMPERATURE SENSORS

1. PLANNING INFORMATION

A. EFFECTIVITY

(1) Aircraft Model:A320-111

(2) Aircraft

Customer Fleet No.	MSN	Qty of Kits None
AFR 001, 002	005, 007	
BAW 001, 002	006, 008	

This modification is embodied, prior to delivery, on A/C MSN 010 and subsequent.

(3) Spares Affected

Air cycle machine P/N 757A0000-06  
Water-extractor temperature sensor P/N 764A0000-03

B. REASON

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Service Bulletin No.	Description
744-21-01	Cover SB, raises Amendment A to air conditioning pack 744A0000-06.
757-21-01	Technical improvements to ACM. Unit is replaced.
764-21-01	Technical improvements to water-extractor temperature sensor. Unit is replaced.

C. DESCRIPTION

Accomplishment of this Service Bulletin consists of :

- (1) Removing the air cycle machines and the water-extractor temperature sensors.
- (2) Installing a new or modified air cycle machines and water-extractor temperature sensors.
- (3) Performing operational test of the air cooling system.

D. APPROVAL

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

E. MANPOWER

	Manhours
Access/Close-Up	0.5
Removal/Installation	4.0
Test	<u>0.5</u>
Total manhours	5.0
Elapsed time (hours)	2.5

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, nonproductive elapsed time or administrative functions.

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F. MATERIAL - COST AND AVAILABILITY

Refer to Liebherr ABG-Semca Service Bulletins 744-21-01, 757-21-01 and 764-21-01.

G. TOOLING - PRICE AND AVAILABILITY

None.

H. WEIGHT AND BALANCE

Negligeable.

I. REFERENCE

Liebherr ABG-Semca Service Bulletins 744-21-01, 757-21-01, 764-21-01  
Aircraft Maintenance Manual 21-52-00, 21-52-21, 21-61-13, 24-00-00

J. PUBLICATION AFFECTED

Illustrated Parts Catalog 21-52-21, 21-61-13

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2. ACCOMPLISHMENT INSTRUCTIONS

A. GENERAL

- (1) Electrically ground the aircraft (Refer to AMM 24-00-00).
- (2) Put the access platform in position.
- (3) Open the passenger/crew door.
- (4) Open, safety and tag these circuit breakers:

PANEL	SERVICE		
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

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

B. MODIFICATION

- (1) Remove the air cycle machines 10HM1 and 11HM1 (Refer to AMM 21-52-21).
- (2) Remove the water-extractor temperature sensors 11HH and 31HH (Refer to AMM 21-61-13).
- (3) Install the new or modified air cycle machines 10HM1 AND 11HM1 (Refer to AMM 21-52-61).
- (4) Install the new or modified water-extractor temperature sensors 11HH and 31HH (Refer to AMM 21-61-13).
- (5) Add the Letter A to the amendment plate of each air conditioning pack.

C. TEST

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

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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) Remove the access platform.

3. MATERIAL INFORMATION

Refer to Liebherr ABG-Semca Service Bulletins 744-21-01, 757-21-01 and 764-21-01.

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