@A318/A319/A320/A321

SERVICE BULLETIN

SUMMARY

AIRBUS

CUSTOMER SERVICES DIRECTORATE

1 Rond Point Maurice Bellonte

31707 BLAGNAC CEDEX FRANCE

Tel : (33) 5 61 93 33 33

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Fax : (33) 5 61 93 42 51

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

ATA SYSTEM: 21

**TITLE:** **AIR** **CONDITIONING** **-** **AIR** **COOLING** **SYSTEM** **-** **REMOVE** **AIR** **CONDITIONING** **PACK** **P/N** **2401A0000-01** **AND** **INSTALL** **THE** **PREVIOUS** **ONE**

**\*\*CONF** **ALL**

**MODIFICATIONS**

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| MODIFICATION CLASSIFICATION | | | | | |
| MAJOR | None | | | | |
| MINOR | 151098K14007 |  |  |  |  |

NOTE: As per EASA IR 21, a minor change is one that has no appreciable effect on the mass, balance, structural strength, reliability, operational characteristics affecting the airworthiness of the product. All other changes are major changes.

**REASON/DESCRIPTION/OPERATIONAL** **CONSEQUENCES**

Air Conditioning Pack (10HM and 11HM), PN 2401A0000-01, has been evaluated in-service on selected aircraft. The results of the evaluation show that contamination has caused significant abrasion of the bearings in the Air Conditioning Packs.

In conclusion, it is recommended to revert the Air Conditioning Packs (10HM and 11HM), PN 2401A0000-01, to the previous standard Air Conditioning Packs, PN 2301A0000-01.

This Service Bulletin is issued to advise operators of the issue of LIEBHERR-AEROSPACE Service Bulletin No. 2401A-21-02.

In order to revert the Air Conditioning Packs (10HM and 11HM) to the previous standard, it is necessary to:

- Remove the existing Air Conditioning Packs (10HM and 11HM), PN 2401A0000-01

- Modify the Air Conditioning Packs (10HM and 11HM) in accordance with LIEBHERR-AEROSPACE Service Bulletin No. 2401A-21-02

- Install the Air Conditioning Packs (10HM and 11HM), PN 2301A0000-01.

Accomplishment of this Service Bulletin will avoid abrasion of the bearings in the Air Conditioning Packs (10HM and 11HM).

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**GENERAL** **EVALUATION**

|  |  |  |  |
| --- | --- | --- | --- |
| EVALUATION TABLE | | | |
| COMPLIANCE | RECOMMENDED | CANCELS INSPECTION SB | NO |
| POTENTIAL AD | NO | A/C OPERATION AFFECTED | NO |
| RELIABILITY AFFECTED | NO | PAX COMFORT AFFECTED | NO |
| COST SAVING | NO | ETOPS AFFECTED | NO |
| STRUCTURAL LIFE EXTN | NO | VENDOR SB INVOLVED | YES |

**MATERIAL** **PRICE** **INFORMATION**

**\*\*CONF** **001**

No Material

**\*\*CONF** **002**

No Material

**EFFECTIVITY**

**\*\*CONF** **ALL**

This Service Bulletin is applicable to this (these) operator(s) :

CSN VRD

**CONCURRENT** **REQUIREMENTS**

None

**REFERENCES** **/** **REPERCUSSIONS**

|  |  |
| --- | --- |
| TFU | None |
| OEB | None |
| AOT | None |
| SIL | None |
| LINE MAINTENANCE AFFECTED | No |
| LIFE LIMIT | None |
| OTHER | None |

**NATURE** **OF** **THE** **WORK**

|  |  |
| --- | --- |
| AIRCRAFT | YES |
| EQUIPMENT | YES |
| HARD | NO |
| SOFT | NO |
| OBRM | NO |

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SUMMARY

**MANPOWER**

**\*\*CONF** **001**

|  |  |
| --- | --- |
| Task 211195-831-848-001: Modification | |
| TOTAL MANHOURS | 11.00 |
| ELAPSED TIME (HOURS) | 9.00 |
|  | |
| **Additional** **manhours** **related** **to** **Vendor** **SB;** **refer** **to:** |  |
| Modify the Air Conditioning Packs (10HM and 11HM) | LIEBHERR-AEROSPACE Service Bulletin No. 2401A-21-02 |

**\*\*CONF** **002**

|  |  |
| --- | --- |
| Task 211195-831-848-001: Modification | |
| TOTAL MANHOURS | 11.00 |
| ELAPSED TIME (HOURS) | 9.00 |
|  | |
| **Additional** **manhours** **related** **to** **Vendor** **SB;** **refer** **to:** |  |
| Modify the Air Conditioning Packs (10HM and 11HM) | LIEBHERR-AEROSPACE Service Bulletin No. 2401A-21-02 |

**APPENDICES**

**\*\*CONF** **ALL**

None

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Z190

SERVICE BULLETIN

SUMMARY

**\*\*CONF** **ALL**

**A**

FR36

 FR41





AIR CONDITIONING

PACK

10HM LH

11HM RH

|  |
| --- |
| **A** |

LH SHOWN

RH SYMMETRICAL

N\_SB\_211195\_6\_SAAA\_01\_01

Figure A-GSAAA - Sheet 01

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AIRBUS

CUSTOMER SERVICES DIRECTORATE

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ATA SYSTEM: 21

**TITLE:** **AIR** **CONDITIONING** **-** **AIR** **COOLING** **SYSTEM** **-** **REMOVE** **AIR**

**CONDITIONING** **PACK** **P/N** **2401A0000-01** **AND** **INSTALL** **THE** **PREVIOUS** **ONE**

MODIFICATION No.: 151098K14007

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**1.** **PLANNING** **INFORMATION**

**\*\*CONF** **ALL**

**A.** **EFFECTIVITY**

(1) Models

320-214 321-231

(2) Effectivity by MSN

2759 2767 2800 2830

(3) Effectivity by Operator

The Operator/MSN relationship is provided for information only and is correct at the time of issue in accordance with the information available to AIRBUS. Any future changes resulting from transfer of an aircraft from one operator to another will not be reflected in this list unless the Service Bulletin is revised for another reason.

|  |  |
| --- | --- |
| **OPERATOR** | **MSN** |
| CSN | 2759 2767 |
| VRD | 2800 2830 |

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(4) Configuration by MSN

|  |  |
| --- | --- |
| **MSN** | **CONFIGURATION** |
| 2759 2767 | 002 |
| 2800 2830 | 001 |

(5) Configuration definition

\*\*CONF 001

Config. 001 is applicable to all A320 aircraft listed in the effectivity.

\*\*CONF 002

Config. 002 is applicable to all A321 aircraft listed in the effectivity.

(6) Material Effectivity

|  |  |  |
| --- | --- | --- |
| MATERIAL | QTY PER A/C | SEE NOTES |
| Reidentified part set REIDD01 | 1 |  |

**B.** **CONCURRENT** **REQUIREMENTS**

None

**C.** **REASON**

(1) History

Air Conditioning Pack (10HM and 11HM), PN 2401A0000-01, has been evaluated in- service on selected aircraft. The results of the evaluation show that contamination has caused significant abrasion of the bearings in the Air Conditioning Packs.

In conclusion, it is recommended to revert the Air Conditioning Packs (10HM and 11HM), PN 2401A0000-01, to the previous standard Air Conditioning Packs, PN 2301A0000-01.

(2) Objective/Action

This Service Bulletin is issued to advise operators of the issue of LIEBHERR- AEROSPACE Service Bulletin No. 2401A-21-02.

In order to revert the Air Conditioning Packs (10HM and 11HM) to the previous standard, it is necessary to:

- Remove the existing Air Conditioning Packs (10HM and 11HM), PN 2401A0000-01

- Modify the Air Conditioning Packs (10HM and 11HM) in accordance with LIEBHERR-AEROSPACE Service Bulletin No. 2401A-21-02

- Install the Air Conditioning Packs (10HM and 11HM), PN 2301A0000-01.

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(3) Advantages

Accomplishment of this Service Bulletin will avoid abrasion of the bearings in the Air Conditioning Packs (10HM and 11HM).

(4) Operational/Maintenance Consequences

None

**D.** **DESCRIPTION**

To accomplish this Service Bulletin it is necessary to :

**\*\*CONF** **001**

Task 211195-831-848-001: Modification

(1) Remove the Air Conditioning Packs (10HM and 11HM)

(2) Modify the Air Conditioning Packs (10HM and 11HM)

(3) Install the Air Conditioning Packs (10HM and 11HM)

**\*\*CONF** **002**

Task 211195-831-848-001: Modification

(1) Remove the Air Conditioning Packs (10HM and 11HM)

(2) Modify the Air Conditioning Packs (10HM and 11HM)

(3) Install the Air Conditioning Packs (10HM and 11HM)

**\*\*CONF** **ALL**

**E.** **COMPLIANCE**

(1) Classification

RECOMMENDED

(2) Accomplishment Timescale

Accomplishment of this Service Bulletin is recommended at the earliest opportunity where manpower and facilities are available.

**F.** **APPROVAL**

Approved under EASA Design Organisation Approval No. EASA 21J.031.

If an aircraft listed in the effectivity has a modification or repair embodied that is not of AIRBUS origin, and which affects the content of this Service Bulletin, the operator is responsible for obtaining approval by its airworthiness authority for any adaptation necessary before incorporation of the Service Bulletin.

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**G.** **MANPOWER**

The manpower estimates given in this Service Bulletin are based on the direct labor cost to do the work. These estimates assume that the work will be done by experienced personnel, and may need to be revised upwards to suit operator’s circumstances. The estimates do not include the time to prepare, plan or inspect the work. Manufacture and procurement of parts and tools, drying times for paints, sealants, etc., and general administration work are also not included.

**\*\*CONF** **001**

|  |  |
| --- | --- |
| Task 211195-831-848-001: Modification | |
| Get Access | 0.75 |
| **On** **Aircraft** |  |
| Remove the Air Conditioning Packs (10HM and 11HM) | 4.00 |
| Install the Air Conditioning Packs (10HM and 11HM) | 4.00 |
| Tests | 1.25 |
| Close-Up | 1.00 |
| TOTAL MANHOURS | 11.00 |
| ELAPSED TIME (HOURS) | 9.00 |
|  | |
| **Additional** **manhours** **related** **to** **Vendor** **SB;** **refer** **to:** |  |
| Modify the Air Conditioning Packs (10HM and 11HM) | LIEBHERR-AEROSPACE Service Bulletin No. 2401A-21-02 |

**\*\*CONF** **002**

|  |  |
| --- | --- |
| Task 211195-831-848-001: Modification | |
| Get Access | 0.75 |
| **On** **Aircraft** |  |
| Remove the Air Conditioning Packs (10HM and 11HM) | 4.00 |
| Install the Air Conditioning Packs (10HM and 11HM) | 4.00 |
| Tests | 1.25 |
| Close-Up | 1.00 |
| TOTAL MANHOURS | 11.00 |
| ELAPSED TIME (HOURS) | 9.00 |
|  | |
| **Additional** **manhours** **related** **to** **Vendor** **SB;** **refer** **to:** |  |
| Modify the Air Conditioning Packs (10HM and 11HM) | LIEBHERR-AEROSPACE Service Bulletin No. 2401A-21-02 |

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**\*\*CONF** **ALL**

**H.** **WEIGHT** **AND** **BALANCE**

**\*\*CONF** **001**

The weight and balance estimates given in this Service Bulletin are based on the Manufacturer’s Empty Weight (MEW) and do not include operator item’s. For the definition of MEW and operator’s items refer to Weight and Balance Manual (WBM) Chapter 1-00-07.

Manufacturers Empty Weight Effect on Balance

+0.200 KG

+16.7 KGM

(+0.4409 LB)

(+120.791 LB.FT )

**\*\*CONF** **002**

The weight and balance estimates given in this Service Bulletin are based on the Manufacturer’s Empty Weight (MEW) and do not include operator item’s. For the definition of MEW and operator’s items refer to Weight and Balance Manual (WBM) Chapter 1-00-07.

Manufacturers Empty Weight Effect on Balance

**\*\*CONF** **ALL**

**I.** **ELECTRICAL** **LOAD** **DATA**

Not Changed

**J.** **REFERENCES**

**\*\*CONF** **001**

+0.200 KG

+21.000 KGM

(+0.4409 LB)

(+151.893 LB.FT )

|  |  |
| --- | --- |
| Aircraft Maintenance Manual (AMM) | 06-20-00 06-31-53 12-34-24  21-52-41 |
| ATA Common Support Data Dictionary (CSDD), Chapter 2 |  |
| Elec. Std. Practices Manual (ESPM) | 20-55-00 |
| Vendor Service Bulletin (VSB) | LIEBHERR-AEROSPACE Service Bulletin No. 2401A-21-02 |
| Weight and Balance Manual (WBM) | Weight and Balance Manual  (WBM) Chapter 1-00-07 |

**\*\*CONF** **002**

|  |  |
| --- | --- |
| Aircraft Maintenance Manual (AMM) | 06-20-00 06-31-53 12-34-24  21-52-41 |

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|  |  |
| --- | --- |
| ATA Common Support Data Dictionary (CSDD), Chapter 2 |  |
| Elec. Std. Practices Manual (ESPM) | 20-55-00 |
| Vendor Service Bulletin (VSB) | LIEBHERR-AEROSPACE Service Bulletin No. 2401A-21-02 |
| Weight and Balance Manual (WBM) | Weight and Balance Manual  (WBM) Chapter 1-00-07 |

**\*\*CONF** **ALL**

**K.** **PUBLICATION** **AFFECTED**

|  |  |
| --- | --- |
| Aircraft Maintenance Manual (AMM) | 21-52-00 21-52-21 21-52-22  21-52-24 |
| Illustrated Parts Catalog (IPC) | 21-52-03 |

**L.** **INTERCHANGEABILITY/MIXABILITY**

**\*\*CONF** **001**

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| DESCRIPTION | OLD PART N˚ | NEW PART N˚ | INT | MIXABILITY | SEE  NOTES |
| Pack-Air Conditioning | 2401A0000-01 | 2301A0000-01 | 02 | NO |  |

NOTE:

NOTE:

**\*\*CONF** **002**

For definitions of interchangeability codes in column INT., refer to ATA Common Support Data Dictionary (CSDD), Chapter 2.

Only the mixability configuration(s) and condition(s) stated in this Service Bulletin are approved.

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| DESCRIPTION | OLD PART N˚ | NEW PART N˚ | INT | MIXABILITY | SEE  NOTES |
| Pack-Air Conditioning | 2401A0000-01 | 2301A0000-01 | 02 | NO |  |

NOTE:

NOTE:

**\*\*CONF** **ALL**

**M.** **SPARES**

None

For definitions of interchangeability codes in column INT., refer to ATA Common Support Data Dictionary (CSDD), Chapter 2.

Only the mixability configuration(s) and condition(s) stated in this Service Bulletin are approved.

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**2.** **MATERIAL** **INFORMATION**

**\*\*CONF** **ALL**

**A.** **MATERIAL** **-** **PRICE** **AND** **AVAILABILITY**

(1) Procurement Addresses

|  |  |
| --- | --- |
| Reidentified part set REIDD01 | Modification of removed equipment should be negotiated directly with LIEBHERR- AEROSPACE as per instructions given in LIEBHERR-AEROSPACE Service Bulletin No. 2401A-21-02. |

(2) Price and Availability

|  |
| --- |
| Reidentified part set REIDD01 |

Refer to LIEBHERR-AEROSPACE Service Bulletin No. 2401A-21-02 for the equipment modification sales terms.

**B.** **INDUSTRY** **SUPPORT** **INFORMATION**

Refer to LIEBHERR-AEROSPACE Service Bulletin No. 2401A-21-02 for the industry support terms.

**C.** **LIST** **OF** **COMPONENTS**

No Kit

**D.** **LIST** **OF** **MATERIALS** **-** **OPERATOR** **SUPPLIED**

None

**E.** **PARTS** **TO** **BE** **RE-IDENTIFIED** **BY** **OPERATOR**

Refer to LIEBHERR-AEROSPACE Service Bulletin No. 2401A-21-02.

Reidentified part set REIDD01

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| ITEM | NEW PART N˚ | KEYWORD | ITEM | OLD PART N˚ | SEE  NOTES |
| 1 | 2301A0000-01 | PACK | (1) | 2401A0000-01 |  |

**F.** **TOOLING**

None

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**3.** **ACCOMPLISHMENT** **INSTRUCTIONS**

**Task** **211195-831-848-001** **-** **Modification**

WARNING: MAKE SURE THAT YOU OBEY ALL THE WARNINGS AND ALL THE CAUTIONS INCLUDED IN THE REFERENCED PROCEDURES.

CAUTION: ALWAYS OBEY THE PRECAUTIONS THAT FOLLOW TO KEEP ELECTRICAL WIRING IN A SATISFACTORY CONDITION (ELECTRICALLY AND MECHANICALLY SERVICEABLE).

WHEN YOU DO MAINTENANCE WORK, REPAIRS OR MODIFICATIONS, ALWAYS KEEP ELECTRICAL WIRING, COMPONENTS AND THE WORK AREA AS CLEAN AS POSSIBLE. TO DO THIS :

- PUT PROTECTION, SUCH AS PLASTIC SHEETING, CLOTHS, ETC. AS NECESSARY ON WIRING AND COMPONENTS.

- REGULARLY REMOVE ALL SHAVINGS, UNWANTED MATERIAL AND OTHER CONTAMINATION.

THESE PRECAUTIONS WILL DECREASE THE RISK OF CONTAMINATION AND DAMAGE TO THE ELECTRICAL WIRING INSTALLATION. IF THERE IS CONTAMINATION, REFER TO ESPM 20-55-00, CLEANING.

**Task** **Associated** **Data**

**\*\*CONF** **001**

|  |  |  |
| --- | --- | --- |
| Zone | | |
| 100 190 191 192 210 | | |
| Access | | |
| Door | 191KB 192KB | |
| Manpower | | |
| TOTAL MANHOURS | | 11.00 |
| ELAPSED TIME (HOURS) | | 9.00 |
|  | | |
| Additional manhours related to Vendor SB; refer to: | | |
| LIEBHERR-AEROSPACE Service Bulletin No. 2401A-21-02 | | |

**\*\*CONF** **002**

|  |  |  |
| --- | --- | --- |
| Zone | | |
| 100 190 191 192 210 | | |
| Access | | |
| Door | 191KB 192KB | |
| Manpower | | |
| TOTAL MANHOURS | | 11.00 |
| ELAPSED TIME (HOURS) | | 9.00 |
|  | | |

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|  |
| --- |
| Additional manhours related to Vendor SB; refer to: |
| LIEBHERR-AEROSPACE Service Bulletin No. 2401A-21-02 |

**\*\*CONF** **ALL**

**A.** **GENERAL**

**\*\*CONF** **001**

**(1)** **Subtask** **211195-910-201-001** **-** **Standard** **Practices**

|  |  |
| --- | --- |
| References | |
| Aircraft Maintenance Manual (AMM) | 06-20-00, Page Block 001  06-31-53, Page Block 001 |

(a) For the identification of aircraft zones (Refer to AMM 06-20-00, Page Block 001). (b) For the identification of Frames (FR) (Refer to AMM 06-31-53, Page Block 001).

**(2)** **Subtask** **211195-839-201-001** **-** **Documentation**

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

**\*\*CONF** **002**

**(1)** **Subtask** **211195-910-201-001** **-** **Standard** **Practices**

|  |  |
| --- | --- |
| References | |
| Aircraft Maintenance Manual (AMM) | 06-20-00, Page Block 001  06-31-53, Page Block 001 |

(a) For the identification of aircraft zones (Refer to AMM 06-20-00, Page Block 001). (b) For the identification of Frames (FR) (Refer to AMM 06-31-53, Page Block 001).

**(2)** **Subtask** **211195-839-201-001** **-** **Documentation**

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

**\*\*CONF** **ALL**

**B.** **PREPARATION**

**\*\*CONF** **001**

**(1)** **Subtask** **211195-941-201-001** **-** **Job** **Set-up**

|  |  |  |
| --- | --- | --- |
| Work Zones and Access Panels | | |
|  | Zone | Access/Work location |
|  | 100 |  |
|  | 210 |  |

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|  |  |  |  |
| --- | --- | --- | --- |
|  | 191 | Access | Door 191KB |
|  | 192 | Access | Door 192KB |

|  |  |
| --- | --- |
| Manpower Resources | |
| Skills | ELECTRICAL  AIRFRAME |

|  |  |
| --- | --- |
| References | |
| Aircraft Maintenance Manual (AMM) | Task 12-34-24-869-002  Task 21-52-41-000-001 |

(a) Make sure that the aircraft is electrically grounded (Refer to AMM Task 12-34-24-869-002).

(b) Put the access platform(s) in position.

(c) Do the Job Set-up procedure as specified in the removal of the Air Conditioning Pack (10HM, 11HM) (Refer to AMM Task 21-52-41-000-001).

**\*\*CONF** **002**

**(1)** **Subtask** **211195-941-201-001** **-** **Job** **Set-up**

|  |  |  |  |
| --- | --- | --- | --- |
| Work Zones and Access Panels | | | |
|  | Zone | Access/Work location | |
|  | 100 |  | |
|  | 210 |  | |
|  | 191 | Access | Door 191KB |
|  | 192 | Access | Door 192KB |

|  |  |
| --- | --- |
| Manpower Resources | |
| Skills | ELECTRICAL  AIRFRAME |

|  |  |
| --- | --- |
| References | |
| Aircraft Maintenance Manual (AMM) | Task 12-34-24-869-002  Task 21-52-41-000-001 |

(a) Make sure that the aircraft is electrically grounded (Refer

12-34-24-869-002).

(b) Put the access platform(s) in position.

(c) Do the Job Set-up procedure as specified in the removal of the

Pack (10HM, 11HM) (Refer to AMM Task 21-52-41-000-001).

to AMM Task

Air Conditioning

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**\*\*CONF** **ALL**

**C.** **PROCEDURE**

**\*\*CONF** **001**

**(1)** **Subtask** **211195-020-201-001** **-** **Remove** **the** **Air** **Conditioning** **Packs** **(10HM** **and**

**11HM)**

|  |  |  |  |
| --- | --- | --- | --- |
| Work Zones and Access Panels | | | |
|  | Zone | Access/Work location | |
|  | 191 | Work location | from Frame 36 to Frame 41 |
|  | 192 | Work location | from Frame 36 to Frame 41 |

|  |  |
| --- | --- |
| Manpower Resources | |
| Manhours | 4.00 |
| Minimum number of person | 3 |
| Subtask elapsed time | 3.00 |
| Skills | AIRFRAME |

|  |  |
| --- | --- |
| References | |
| Aircraft Maintenance Manual (AMM) | Task 21-52-41-000-001 |
| Fig. A-GBAAA  Removal and Installation of Air  Conditioning Packs | [Sheet 01](#_bookmark1) |

(a) Remove the Air Conditioning Packs (10HM and 11HM) (Refer to AMM Task

21-52-41-000-001 and [Fig. A-GBAAA](#_bookmark2)).

Remove:

2 Pack-Air Conditioning 2401A0000-01 Item (1) Retain

**(2)** **Subtask** **211195-831-203-001** **-** **Modify** **the** **Air** **Conditioning** **Packs** **(10HM** **and** **11HM)**

|  |  |
| --- | --- |
| References | |
| Vendor Service Bulletin (VSB) | LIEBHERR-AEROSPACE 2401A-21-02 |

(a) Modify the Air Conditioning Packs (10HM and 11HM) (Refer to LIEBHERR- AEROSPACE Service Bulletin No. 2401A-21-02).

**(3)** **Subtask** **211195-420-201-001** **-** **Install** **the** **Air** **Conditioning** **Packs** **(10HM** **and** **11HM)**

|  |  |  |  |
| --- | --- | --- | --- |
| Work Zones and Access Panels | | | |
|  | Zone | Access/Work location | |
|  | 191 | Work location | from Frame 36 to Frame 41 |
|  | 192 | Work location | from Frame 36 to Frame 41 |

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|  |  |
| --- | --- |
| Manpower Resources | |
| Manhours | 4.00 |
| Minimum number of person | 3 |
| Subtask elapsed time | 3.00 |
| Skills | AIRFRAME |

|  |
| --- |
| Material necessary to do the job |

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| Reidentified part set REIDD01 | | | | | |
| ITEM | NEW PART N˚ | KEYWORD | ITEM | OLD PART N˚ | SEE  NOTES |
| 1 | 2301A0000-01 | PACK |  |  |  |

|  |  |
| --- | --- |
| References | |
| Aircraft Maintenance Manual (AMM) | Task 21-52-41-400-001 |
| Fig. A-GBAAA  Removal and Installation of Air  Conditioning Packs | [Sheet 01](#_bookmark3) |

2

**\*\*CONF** **002**

**(1)**

(a) Install the Air Conditioning Packs (10HM and 11HM) (Refer to AMM Task

21-52-41-400-001 and [Fig. A-GBAAA](#_bookmark4)).

Install:

Pack-Air Conditioning 2301A0000-01 Item 1

**Subtask** **211195-020-201-001** **-** **Remove** **the** **Air** **Conditioning** **Packs** **(10HM** **and** **11HM)**

|  |  |  |  |
| --- | --- | --- | --- |
| Work Zones and Access Panels | | | |
|  | Zone | Access/Work location | |
|  | 191 | Work location | from Frame 36 to Frame 41 |
|  | 192 | Work location | from Frame 36 to Frame 41 |

|  |  |
| --- | --- |
| Manpower Resources | |
| Manhours | 4.00 |
| Minimum number of person | 3 |
| Subtask elapsed time | 3.00 |
| Skills | AIRFRAME |

|  |  |
| --- | --- |
| References | |
| Aircraft Maintenance Manual (AMM) | Task 21-52-41-000-001 |
| Fig. A-GBAAA  Removal and Installation of Air  Conditioning Packs | [Sheet 01](#_bookmark5) |

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(a) Remove the Air Conditioning Packs (10HM and 11HM) (Refer to AMM Task

21-52-41-000-001 and [Fig. A-GBAAA](#_bookmark6)).

Remove:

2 Pack-Air Conditioning 2401A0000-01 Item (1) Retain

**(2)** **Subtask** **211195-831-203-001** **-** **Modify** **the** **Air** **Conditioning** **Packs** **(10HM** **and** **11HM)**

|  |  |
| --- | --- |
| References | |
| Vendor Service Bulletin (VSB) | LIEBHERR-AEROSPACE 2401A-21-02 |

(a) Modify the Air Conditioning Packs (10HM and 11HM) (Refer to LIEBHERR- AEROSPACE Service Bulletin No. 2401A-21-02).

**(3)** **Subtask** **211195-420-201-001** **-** **Install** **the** **Air** **Conditioning** **Packs** **(10HM** **and** **11HM)**

|  |  |  |  |
| --- | --- | --- | --- |
| Work Zones and Access Panels | | | |
|  | Zone | Access/Work location | |
|  | 191 | Work location | from Frame 36 to Frame 41 |
|  | 192 | Work location | from Frame 36 to Frame 41 |

|  |  |
| --- | --- |
| Manpower Resources | |
| Manhours | 4.00 |
| Minimum number of person | 3 |
| Subtask elapsed time | 3.00 |
| Skills | AIRFRAME |

|  |
| --- |
| Material necessary to do the job |

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| Reidentified part set REIDD01 | | | | | |
| ITEM | NEW PART N˚ | KEYWORD | ITEM | OLD PART N˚ | SEE  NOTES |
| 1 | 2301A0000-01 | PACK |  |  |  |

|  |  |
| --- | --- |
| References | |
| Aircraft Maintenance Manual (AMM) | Task 21-52-41-400-001 |
| Fig. A-GBAAA  Removal and Installation of Air  Conditioning Packs | [Sheet 01](#_bookmark7) |

(a) Install the Air Conditioning Packs (10HM and 11HM) (Refer to AMM Task 21-52-41-400-001 and [Fig. A-GBAAA](#_bookmark8)).

Install:

2 Pack-Air Conditioning 2301A0000-01 Item 1

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SERVICE BULLETIN

**\*\*CONF** **ALL**

**D.** **TEST**

**\*\*CONF** **001**

**(1)** **Subtask** **211195-700-201-001** **-** **Testing**

|  |  |  |
| --- | --- | --- |
| Work Zones and Access Panels | | |
|  | Zone | Access/Work location |
|  | 190 |  |
|  | 210 |  |

|  |  |
| --- | --- |
| Manpower Resources | |
| Skills | ELECTRICAL  AIRFRAME |

|  |  |
| --- | --- |
| References | |
| Aircraft Maintenance Manual (AMM) | Task 21-52-41-400-001 |

(a) Remove the safety clips and tags and close the applicable circuit breakers as specified after installation of the Air Conditioning Packs (10HM and 11HM) (Refer to AMM Task 21-52-41-400-001).

(b) Do the tests after installation of the Air Conditioning Packs (10HM and 11HM) (Refer to AMM Task 21-52-41-400-001).

**\*\*CONF** **002**

**(1)** **Subtask** **211195-700-201-001** **-** **Testing**

|  |  |  |
| --- | --- | --- |
| Work Zones and Access Panels | | |
|  | Zone | Access/Work location |
|  | 190 |  |
|  | 210 |  |

|  |  |
| --- | --- |
| Manpower Resources | |
| Skills | ELECTRICAL  AIRFRAME |

|  |  |
| --- | --- |
| References | |
| Aircraft Maintenance Manual (AMM) | Task 21-52-41-400-001 |

(a) Remove the safety clips and tags and close the applicable circuit breakers as specified after installation of the Air Conditioning Packs (10HM and 11HM) (Refer to AMM Task 21-52-41-400-001).

(b) Do the tests after installation of the Air Conditioning Packs (10HM and 11HM) (Refer to AMM Task 21-52-41-400-001).

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SERVICE BULLETIN

**\*\*CONF** **ALL**

**E.** **CLOSE-UP**

**\*\*CONF** **001**

**(1)** **Subtask** **211195-942-201-001** **-** **Close-up**

|  |  |  |  |
| --- | --- | --- | --- |
| Work Zones and Access Panels | | | |
|  | Zone | Access/Work location | |
|  | 191 | Access | Door 191KB |
|  | 192 | Access | Door 192KB |
|  | 210 |  | |

|  |  |
| --- | --- |
| Manpower Resources | |
| Skills | NON SPECIFIC |

|  |  |
| --- | --- |
| References | |
| Aircraft Maintenance Manual (AMM) | Task 21-52-41-400-001 |

(a) Make sure that the work areas are clean and clear of tools and other items of equipment.

(b) Do the Job Close-up procedure as specified in the installation of the Air Conditioning Packs (10HM and 11HM) (Refer to AMM Task 21-52-41-400-001).

(c) Remove the access platform(s).

**\*\*CONF** **002**

**(1)** **Subtask** **211195-942-201-001** **-** **Close-up**

|  |  |  |  |
| --- | --- | --- | --- |
| Work Zones and Access Panels | | | |
|  | Zone | Access/Work location | |
|  | 191 | Access | Door 191KB |
|  | 192 | Access | Door 192KB |
|  | 210 |  | |

|  |  |
| --- | --- |
| Manpower Resources | |
| Skills | NON SPECIFIC |

|  |  |
| --- | --- |
| References | |
| Aircraft Maintenance Manual (AMM) | Task 21-52-41-400-001 |

(a) Make sure that the work areas are clean and clear of tools and other items of equipment.

(b) Do the Job Close-up procedure as specified in the installation of the Air Conditioning Packs (10HM and 11HM) (Refer to AMM Task 21-52-41-400-001).

(c) Remove the access platform(s).

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Z190

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**\*\*CONF** **ALL**

**A**

FR36

 FR41





AIR CONDITIONING

PACK

10HM LH

11HM RH

|  |
| --- |
| **A** |

(1) 1

LH SHOWN

RH SYMMETRICAL

N\_SB\_211195\_6\_BAAA\_01\_01

Figure A-GBAAA - Sheet 01

Removal and Installation of Air Conditioning Packs

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REPORTING SHEET

**TITLE:** **AIR** **CONDITIONING** **-** **AIR** **COOLING** **SYSTEM** **-** **REMOVE** **AIR** **CONDITIONING** **PACK** **P/N** **2401A0000-01** **AND** **INSTALL** **THE**

**PREVIOUS** **ONE**

MODIFICATION No.: 151098K14007

Please complete the appropriate item (A or B):

A - SB WILL BE embodied YES/NO (if NO please comment)

If YES, aircraft concerned (as per SB effectivity by default) and planned dates (month/year) of embodiment:

B - SB HAS BEEN embodied on aircraft:

Operator comments:

From Airline:

Name/Title:

Signature: Date:

If operational documentation is affected (see Paragraph 1.K of this SB): If information is needed prior to next normal revision or prior to SB embodiment, please indicate required service(s):

Either: Modification Operational Impact (MOI), if available YES/NO Or : Intermediate revision YES/NO

Important Information: This SB will only be incorporated in your maintenance and operational documentation if this sheet is returned to Airbus and signed by a duly authorised representative. With the next feasible revision, this will result in

- Updating of maintenance documentation to show pre and post SB data.

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If this SB requires previous or simultaneous accomplishment of other SBs, Airbus shall automatically include them in the manual revisions. Refer to SIL 00-037 for detailed information.

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X Effectivity

X Reason

X Manpower

X References

X Publication

Comments:

Material

X Kit content

X List of Materials Operator Supplied X Industry support

X Re-identification

X Tooling

Instructions

X Preparation

X Mod/Inspection

X Test

X Close-Up

X Illustrations

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