

1. Approving competent Authority / Country Luffahrt-Bundesamt/ Germany		2. AUTHORISED RELEASE CERTIFICATE EASA FORM 1		3. Form Tracking Number  230000152256	
4. Organisation Name and Address D9893 LIEBHERR LIEBHERR-AEROSPACE LINDENBERG GmbH • Pfänderstr. 50-52 • 88161 • Lindenberg • Germany • Phone: +49 (0) (8381) 46-0 • Fax: +49 (0) (8381) 46 4377				5. Work Order / Contract / Invoice 42727	
6. Item	7. Description	8. Part No	9. Qty.	10. Serial No	11. Status / Work
1	POWER CONTROL UNIT	4785A0000-06	1	4785A00L1000372	Modified
12. Remarks Approved Data: 27-82-51 / Rev. 06 / 26.07.2021 SFR No.: 42727 Rev. 1 DMF: 052017 Amendment: A Periods of times / cycles: Unit TSN: 13382,83 Unit CSN: 1340					
Maintenance Documents: 4785A-27-05 Rev 02 19.07.2022 4785A-27-04 Rev 02 26.07.2022 4785A-27-02 Rev 02 25.02.2022					
13a. Certifies that the items identified above were manufactured in conformity to: ☐ approved design data and are in a condition for safe operation. ☐ non approved design data specified in block 12.			14a. ☒ Part-145 A.50 Release to Service ☐ Other regulation specified in block 12 Certifies that unless otherwise specified in block 12, the work identified in block 11 and described in block 12 was accomplished in accordance with Part-145 and in respect to that work the items are considered ready for release to service.		
13b. Authorised Signature	13c. Approval / Authorisation Number	14b. Authorised Signature  Electronic Signature on File	14c. Certificate / Approval Ref. No DE.145.0034		
13d. Name	13e. Date (dd mmm yyyy)	14d. Name Jürgen Lang	14e. Date (dd mmm yyyy) 01 Feb 2023		
User / Installer Responsibilities This certificate does not automatically constitute authority to install the item(s). Where the user/installer performs work in accordance with regulations of an airworthiness authority different than the airworthiness authority specified in block 1, it is essential that the user/installer ensures that his/her airworthiness authority accepts items from the airworthiness authority specified in block 1. Statements in blocks 13a and 14a do not constitute installation certification. In all cases aircraft maintenance records must contain an installation certification issued in accordance with the national regulations by the user/installer before the aircraft may be flown.					

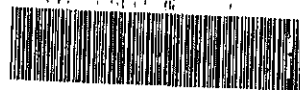
1. Approving competent Authority/Country

CAA/UK

2. AUTHORISED RELEASE CERTIFICATE

CAA FORM 1

3. Form Tracking Number



UK230000152256

4. Organisation Name and Address:

LIEBHERR-AEROSPACE LINDENBERG GmbH • Pfänderstr. 50-52 • 88161 • Lindenberg • Germany • Phone: +49 (0) (8381) 46-0 • Fax: +49 (0) (8381) 46 4377

5. Work Order/Contract/Invoice
42727**D9893 LIEBHERR**

6. Item

7. Description

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11. Status/Work

1

POWER CONTROL UNIT

4785A0000-06

1

4785A00L1000372

Modified

12. Remarks

Approved Data: 27-82-51 / Rev. 06 / 26.07.2021

SFR No.: 42727 Rev. 1

DMF: 052017

Amendment: A

Periods of times / cycles:

Unit TSN: 13382,83

Unit CSN: 1340

Maintenance Documents:

4785A-27-05 Rev 02 19.07.2022

4785A-27-04 Rev 02 26.07.2022

4785A-27-02 Rev 02 25.02.2022

13a. Certifies that the items identified above were manufactured in conformity to:



approved design data and are in a condition for safe operation



non approved design data specified in block 12

14a.



Part-145.A.50 Release to Service



Other regulation specified in block 12

Certifies that unless otherwise specified in block 12, the work identified in block 11 and described in block 12 was accomplished in accordance with Part-145 and in respect to that work the items are considered ready for release to service.

13b. Authorised Signature

13c. Approval / Authorisation Number

14b. Authorised Signature

14c. Certificate / Approval Ref. No

JÜRGEN LANG
CERTIFYING INSPECTOR (116)

UK.145.01542

Electronic Signature on File

13d. Name

13e. Date

14d. Name

14e. Date (dd mmm yyyy)

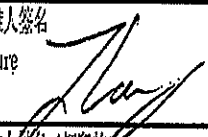
Jürgen Lang

01 Feb 2023

USER / INSTALLER RESPONSIBILITIES

This certificate does not automatically constitute authority to install the item(s).

Where the user/installer performs work in accordance with regulations of an airworthiness authority different than the airworthiness authority specified in block 1, it is essential that the user/installer ensures that his/her airworthiness authority accepts items from the statements in blocks 13a and 14a do not constitute installation certification. In all cases aircraft maintenance records must contain an installation certification issued in accordance with the national regulations by the user/installer before the aircraft may be flown.

1 国家 Country People's Republic of China		2 中国民用航空总局 CAAC ☐ 符合性 Conformity ☒ 适航性 Airworthiness 批准放行证书/适航批准标签 AUTHORIZED RELEASE CERTIFICATE/AIRWORTHINESS APPROVAL TAG			3 证书编号 Certificate Ref. No.  C230000152256	
4 单位 Organization D9893 LIEBHERR Address: LIEBHERR-AEROSPACE LINDENBERG GmbH P.O. BOX 1363 88153 Germany Phone:+49 (0) (83 81) 46-0 Fax: +49 (0) (8381) 46 43 77					5 工作单/合同单/货单 Work Order/Contract/Invoice 42727	
6 序号 Item	7 内容 Description	8 件号 Part No.	9 适用性 Eligibility	10 数量 Quantity	11 系列号/批号 Serial/Batch No.	12 产品状态 Status/Work
1	POWER CONTROL UNIT	4785A0000-06	APPLICABLE TO MULTIPLE TYPES	1	4785A00L000372	Modified
13 备注 Remarks Approved Data: 27-82-51 / Rev. 06 / 26.07.2021 SFR No.: 42727 Rev.1 DMF: 052017 Amendment A Maintenance Documents: 4785A-27-05 Rev 02 19.07.2022 4785A-27-04 Rev 02 26.07.2022 4785A-27-02 Rev 02 25.02.2022 Periods of times / cycles: Unit TSN: 13382,83 Unit CSN: 1340						
14 新产品 New Parts 兹声明上述产品除第 13 项的其它规定以外, 已按照上述国家适航条例进行制造/检查, 并且该产品 (出口产品) 符合经批准的型号设计资料 and 进口国提出的专用要求。 Certifies that the Part(s) identified above except as otherwise specified in block 13 was (were) manufactured/inspected in accordance with the airworthiness regulations of the stated country and/or in the case of parts to be exported with the approved design data and with the notified special requirements of the importing country.			15 使用过的产品 Used Parts 兹声明上述产品除第 13 项的其它规定以外, 已按照上述国家适航条例和进口国通知的特殊要求进行了工作, 该产品处于安全可用状态可以批准放行使用。 Certifies that the work specified above except as specified in block 13 was carried out in accordance with the airworthiness regulations of the stated country and the notified special requirements of the importing country and in respect to that work, the part(s) is (are) in condition for safe operation and considered ready for release to service. (over)			
16 批准人签名 Signature 		18 批准日期 Date 01 Feb 2023		19 中国民航总局授权 Issued by or on behalf of the CAAC F04900357		
17 批准人姓名 (打印) Name (Printed) Jürgen Lang						

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Liebherr Aerospace Lindenberg GmbH * Pfänderstraße 50-52 * 88161 Lindenberg

SHOP FINDING REPORT

LIEBHERR REPAIR DOSSIER:	42727	CONTACT:	ccca2 III
RECEPTION DATE:	25 JAN 2023	EMAIL:	ccca2.III@liebherr.com
CUSTOMER PURCHASE ORDER:	KLU170027906 / 6590114204/10	DATE:	01 FEB 2023
OPERATOR:	Malaysia Airlines		
AIRCRAFT TYPE:	A350-1000		
AIRCRAFT REG. NUMBER:	9M-MAD		
AIRCRAFT SERIAL NUMBER:	N/A		
ADD. CUSTOMER DOCUMENTS:	N/A		

RECEIVED UNIT

CUSTOMER REFERENCE:	4785A0000-04
PART NUMBER:	4785A0000-04 ✓
AMENDMENT:	-
SERIAL NUMBER:	4785A00L1000372 ✓
DESCRIPTION:	POWER CONTROL UNIT
MANUFACTURING CODE:	D9893
MANUFACTURING DATE:	052017 ✓

DELIVERED UNIT

CUSTOMER REFERENCE:	4785A0000-06
PART NUMBER:	4785A0000-06 ✓
AMENDMENT:	A ✓
SERIAL NUMBER:	4785A00L1000372 ✓
DESCRIPTION:	POWER CONTROL UNIT

TIMES & CYCLES

TSN	TSO	TSI	CSN	CSO	CSI
13382,83 ✓	N/A	N/A	1340 ✓	N/A	N/A

INSTALLATION DATE:	N/A
LIFE LIMITED PARTS EXISTING:	No
LOG CARD EXISTING:	No

REMOVAL DATE:	N/A
NON INCIDENT STATEM.:	No

MAINTENANCE DOSSIER:	4785A0000* / VERSION 2 (07 DEC 2022)
APPROVED DATA & MAINTENANCE DOCUMENTS:	CMM 27-82-51 / REVISION 06 / 26 JULY 2021 ✓ SB 4785A-27-02 / REVISION 02 / 25 FEB 2022 ✓ SB 4785A-27-04 / REVISION 02 / 26 JULY 2022 ✓ SB 4785A-27-05 / REVISION 02 / 19 JULY 2022 ✓

TYPE OF CERTIFICATE:	EASA PART 145, CAA UK ✓ PART 145, CCAR PART 145	WORK REQUESTED:	MOD
		WORK PERFORMED:	Modified

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REASON FOR RETURN:

AOT

- MANDATORY PERFORM A350-27-P055-R00-MB-R01
- REV 01 FLIGHT ONTROLS - SLAT ACTUATION AND POWER TRANSMISSION - INTRODUCE NEX SLAT PCU TO SOLVE ISSUE WITH TORQUE SENSING UNIT

FINDINGS AND ANALYSIS:

Findings from Analysis:

- Reason for return confirmed
- Unit received in dirty condition.
- Electric motor damaged - Found during repair on E-Motor paint damage

Findings on parts:

- MANIFOLD BLOCK, ASSY 4785A3000-01, Serial no./Batch no. 4785A30LI000306, Reason for removal: Modification
- DISPLACEMENT TRANSDUCER 2000A1927K01, Serial no./Batch no. 00994, Reason for removal: Old build standard
- DISPLACEMENT TRANSDUCER 2000A1927K01, Serial no./Batch no. 00989, Reason for removal: Old build standard
- BALL BUSH 4785-5009, Serial no./Batch no. HN730243, Reason for removal: Old build standard
- OUTPUT SHAFT 4785-5004, Serial no./Batch no. 013/C 006, Reason for removal: Old build standard
- DISPLACEMENT TRANSDUCER 2000A1927K01, Serial no./Batch no. 00982, Reason for removal: Old build standard
- DISPLACEMENT TRANSDUCER 2000A1927K01, Serial no./Batch no. 00978, Reason for removal: Old build standard
- BALL BUSH 4785-5009, Serial no./Batch no. HN730243, Reason for removal: Old build standard
- OUTPUT SHAFT 4785-5004, Serial no./Batch no. 013/C 010, Reason for removal: Old build standard

WORK PERFORMED:

- Unit partially disassembled and assembled in accordance with the referenced approved data.
- Unit cleaned in accordance with the referenced approved data.
- Unit inspected in accordance with referenced approved data.
- Unit repaired in accordance with the referenced approved data.
- Unit modified in accordance with the referenced approved data.
- Unit tested in accordance with referenced approved data.
- On E-Motor; area cleaned and Ardrex applied. No further action required

Work performed on parts:

- MANIFOLD BLOCK, ASSY 4785A3000-01, Serial no./Batch no. 4785A30LI000306, Corrective action: Replaced with a maintained unit with Part Number 4785A3000-02 with Serial Number 4785A30LI000353. ✓
- DISPLACEMENT TRANSDUCER 2000A1927K01, Serial no./Batch no. 00994, Corrective action: Replaced with a new unit with Part Number 2000A1927K02 with Serial Number 05836. ✓
- DISPLACEMENT TRANSDUCER 2000A1927K01, Serial no./Batch no. 00989, Corrective action: Replaced with a new unit with Part Number 2000A1927K02 with Serial Number 05835. ✓
- BALL BUSH 4785-5009, Serial no./Batch no. HN730243, Corrective action: Replaced with a new unit with Part Number 4785-5049 with Batch Number HN741779. ✓
- OUTPUT SHAFT 4785-5004, Serial no./Batch no. 013/C 003, Corrective action: Replaced with a new unit with Part Number 4785-5062 with Batch Number 22003. ✓
- DISPLACEMENT TRANSDUCER 2000A1927K01, Serial no./Batch no. 00982, Corrective action: Replaced with a new unit with Part Number 2000A1927K02 with Serial Number 05842. ✓
- DISPLACEMENT TRANSDUCER 2000A1927K01, Serial no./Batch no. 00978, Corrective action: Replaced with a new unit with Part Number 2000A1927K02 with Serial Number 05830. ✓

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- BALL BUSH 4785-5009, Serial no./Batch no. HN730243, Corrective action: Replaced with a new unit with Part Number 4785-5049 with Batch Number HN741779. ✓
- OUTPUT SHAFT 4785-5004, Serial no./Batch no. 013/C 010, Corrective action: Replaced with a new unit with Part Number 4785-5062 with Batch Number 22003. ✓

LIFE LIMITED PARTS RECEIVED:

N/A

LIFE LIMITED PARTS DELIVERED:

N/A

SHOP FINDING REPORT APPROVED:

VALIDATION DATE:

01 FEB 2023

VALIDATED BY:

Manuel Fegel (electronic signature)