

1. Approving Civil Aviation Authority/Country: FAA/United States

2.

## AUTHORIZED RELEASE CERTIFICATE

FAA Form 8130-3, AIRWORTHINESS APPROVAL TAG

3. Form Tracking Number: 621560

4. Organization Name and Address:  
**Liebherr Aerospace Saline, Inc.**  
 1465 Woodland Drive - Saline, MI 48176  
 U.S.A.

L3RR193H

5. Work Order/Control/Invoice Number:  
621560

6. Item: 7. Description: 8. Part Number:

9. Quantity: 10. Serial Number: 11. Status/Work:

1	SCREWMJACK	363300-1025	1	00771	REPAIRED
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12. Remarks: Modification: from to  
 Approved Data: CMM 27-51-01 2/9/2009 Rev 5 According to  
 Investigation Report No: 621560  
 Amdt Amdt  
 Modification Status: And -  
 Note: Certifies that the work specified in block 11/12 was carried out in accordance with EASA Part-145 and in respect to that work the aircraft component is considered ready for release to service under EASA Part-145 Approval Number EASA-145-5439.

Comments: Return to service: Work specified accomplished IAW14CFR Part 43.13(a)(b) and/or (c)/AC 43.18 if local for local parts were used

Limited life parts must be accompanied by maintenance history including total time / hours cycle / time since new.

13a. Certifies 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.  14 CFR 43.9 Return 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 Title 14, Code of Federal Regulations, part 43 and in respect to that work, the items are approved for return to service.

13b. Authorized Signature: 13c. Approval/Certificate No.:  
 14b. Authorized Signature: 14c. Approval/Certificate No.:  
 13d. Name (Typed or Printed): 13e. Date (dd/mm/yyyy):  
 14d. Name (Typed or Printed): 14e. Date (dd/mm/yyyy):

*[Signature]* 151  
**ROBERT JONES**  
 15 AUG 2019  
 L3RR193H

### User/Installer Responsibilities

It is important to understand that the existence of this document alone does not automatically constitute authority to install the aircraft engine/propeller/partie.

Where the user/installer performs work in accordance with the national regulations of an airworthiness authority different than the airworthiness authority of the country specified in Block 1, it is essential that the user/installer ensures that his/her aircraft is authorized by the airworthiness authority of the country 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.

Liebherr Aerospace Saline, Inc.  
1435 Woodland Drive  
Saline, MI 48176  
U.S.A.

Parker Hannifin  
Customer Support MS204  
14300 Alton Parkway  
Irvine, CA 92618-M/S 204  
CA  
United States of America

Your Contact : Name : Mitchell Morton  
Tel : (734) 944-6331  
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E-mail : mitchell.morton@liebherr.com

Attn : Nancy Zonaga  
Tel : 1 949-465-4304  
Fax : 1 949-465-4329  
E-mail : nzonaga@parker.com

**SHOP FINDING REPORT  
INVESTIGATION REPORT**

Repair Order : 621560  
Sales Order :  
Sheet : 1 of 2 Issue : 0  
Date : 8/15/2019

**CUSTOMER DATA**

Operator : parker hannifin  
Customer Order : 811U-28729-000  
Defect Report :  
Customer Doc. :  
Aircraft : ERJ-145  
Aircraft Reg N° : -  
Date of Removal :  
Date of Receipt : 7/22/2019  
Work Requested : repair  
Warranty Requested : Yes  
Airworthiness Dir. :  
Approved Data : CMM 27-51-01 2/9/2009 Rev 5  
Modification Doc :

Rev

**UNIT RECEIVED DATA**

Part N° : 363300-1025  
Amendments : -  
Description : screwjack  
Customer Ref. :  
Serial N° : 00771  
Manufacturer : D9893  
Quantity : 1  
MFG Date : 01.00  
TSI :  
TSO :  
TSN : UNK  
CSI :  
CSO :  
CSN :

**UNIT TO BE DELIVERED /  
UNIT DELIVERED**

Part N° : 363300-1025  
Amendments : -  
Customer Ref. :  
Serial N° : 00771  
Concession :  
Work Performed : repair  
Warranty Applied : Out of Warranty

Comments :

**SHOP FINDING REPORT  
INVESTIGATION REPORT**

Repair Order : 621560  
Sales Order :  
Sheet : 2 of 2 Issue : 0  
Date : 8/15/2019

**REASON FOR RETURN :**  
REPAIR RWC

**VISUAL CHECK :**

**FINDINGS AND ANALYSIS :**

1. Unit requires incoming test to verify any faults.
2. Unit failed backlash and axial end play test.  
PN 9146A0001-01 BN 33509 BS 1141
3. Gimbal assy and end cap assy have corrosion. \*Pics  
PN 1180A0500-02 1180A0500-01
4. 1300 cover assy have excessive damage. \*Pics  
PN 1180A1300-01
5. Thrust plate has excessive wear. \*Pics  
PN 1180-0019
6. Unit requires final test.

**ORIGIN OF DEFECT :**

**WORK PERFORMED :**

1. Performed incoming test per CMM.
2. Replaced ballscrew assy per CMM.  
PN 9146A0001-01R BN 8821
3. Replaced gimbal assy and end cap per CMM.
4. Replaced 1300 cover assy per CMM.
5. Replaced thrust plate per CMM.
6. Performed final test per CMM, Ops check good.

**CORRECTIVE ACTIONS :**

Actuator inspected, repaired and tested per CMM 27-51-01 Rev 5 02/09/09.

**MISCELLANEOUS :**

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Return Justified ? : Yes  
Reason for Return Confirmed ? : Yes

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