

## Model

A320 Family THS Actuator

## Serial

699

## Part number

47145-147

## Condition

Repaired - PART145, FAR145, TCAC, CCAR145

**TSR 0 CSR 0 TSN 28714 CSN 30356**

## Trace to

AIR FRANCE (Last operator)

## Tag by

UTC Aerospace Systems

## Tag date

30 August 2018

## Location

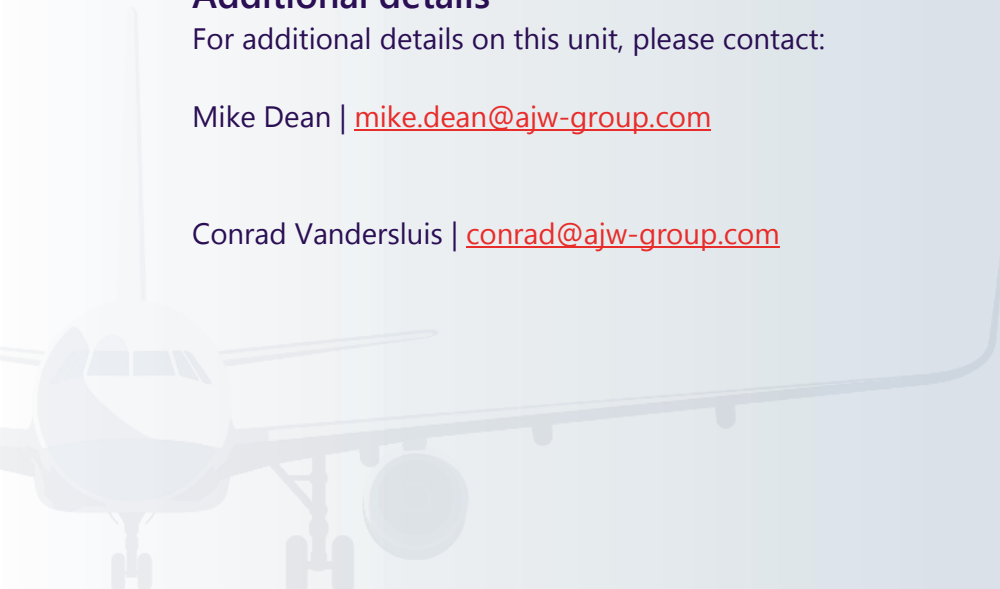
AJW Group, The Headquarters, Maydown Avenue, Slinfold, West Sussex, RH13 0AS, United Kingdom

## Additional details

For additional details on this unit, please contact:


Mike Dean | [mike.dean@ajw-group.com](mailto:mike.dean@ajw-group.com)

Conrad Vandersluis | [conrad@ajw-group.com](mailto:conrad@ajw-group.com)



# AIRWORTHY CERTIFICATE



1. APPROVING COMPETENT AUTHORITY/COUNTRY AUTORITE COMPETENTE/PAYS		<b>AUTHORISED RELEASE CERTIFICATE</b> <i>Certificat Libérateur Autorisé</i> <b>EASA FORM 1</b> <i>Formulaire 1 de l'EASA</i>				3. Form Tracking Number <i>N° de repère du Formulaire</i>
DIRECTION GENERALE DE L'AVIATION CIVILE FRANCE						113665
4. Organisation Name and Address : <i>Nom et Adresse de l'Organisme</i>					5. Work Order / Contract / Invoice <i>Bon de commande / Contrat / Facture</i>	
Goodrich Actuation Systems SAS 13 Avenue de l'Eguillette, ZI du Vert Galant 95310 Saint Ouen l'Aumône (France)					42537877 / U15027	
6. Item / <i>Item</i>	7. Description / <i>Description</i>	8. Part No. / <i>N° de pièce</i>	9. Qty / <i>Qté</i>	10. Serial No. / <i>N° série</i>	11. Status / Work / <i>Etat / Travaux</i>	
001	T.H.S.A	47145-147	1	699	MODIFIED	
12. Remarks/ <i>Remarques</i> CMM :27-44-51 REV:15 AMDTS : D,E TSN : 28714 Fhrs CSN : 30356 Fcys See, in Appendix of this Airworthiness Certificate, the Teardown Report relative to the Repair Sales Order n° 6304115 , listing, if any, all the Service Bulletins applied on the unit and their corresponding Airworthiness Directives. RECOMMENDED SHELF LIFE 60 MONTHS Inspected as per recommendation of AD N° 2017-0237/Remaining life EASA AD 2016-0184 (ALS PART 4): 38786 Fhrs 17644 Fcys Remaining flight cycles to next NBB disks regular maintenance (VSB 47145-27-17 / EASA AD 2015-0080):30000 Fcys Passed inspection as per instructions of AD N° 2012-0175R2 / The next inspection of the ballscrew lower splines must not exceed 24 months after installation of the unit on the aircraft  TCCA Approval No.: 897-22						
13a. Certifies that the items identified above were manufactured in conformity to : <i>Certifie que les éléments identifiés ci-dessus ont été fabriqués conformément aux :</i> <input type="checkbox"/> approved design data and are in a condition for safe operation <i>données de conception approuvées et sont en état de fonctionner en toute sécurité</i> <input type="checkbox"/> non-approved design data specified in block 12 <i>données de conception non approuvées spécifiées dans la case 12</i>				14a. <input checked="" type="checkbox"/> Part 145.A.50 Release to Service <i>Approbation pour remise en service</i> <i>Selon Partie 145.A.50</i> 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. <i>Certifie que, sauf indication contraire spécifiée en case 12, les travaux identifiés en case 11 et décrits en case 12 ont été réalisés conformément à la partie 145 et qu'au vu de ces travaux, les pièces sont considérées prêtes à la remise en service.</i>		<input checked="" type="checkbox"/> Other regulation specified in block 12 <i>Autre réglementation précisée en case 12</i>
13b. Authorised Signature <i>Signature autorisée</i>		13c. Approval/Authorisation Number <i>Número d'agrément/d'autorisation</i>		14b. Authorised Signature <i>Signature autorisée</i>		14c. Certificate/Approval Ref. No N° du <i>Certificat/Agrément</i> FR.145.0051
						
13d. Name / <i>Nom</i>		13e. Date (dd mmm yyyy) / <i>Date (jj mmm aaaa)</i>		14d. Name / <i>Nom</i>		14e. Date (dd mmm yyyy) / <i>Date (jj mmm aaaa)</i>
				BAPTISTE PATEREAU		30-Aug-2018
<b>USER/INSTALLER RESPONSIBILITIES / Responsabilités de l'utilisateur/installateur</b> This certificate does not automatically constitute authority to install the item(s). <i>Ce document ne constitue pas forcément l'autorisation d'installer l'(es) item(s)</i> 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. <i>Quand l'utilisateur/installateur travaille selon les réglementations d'une autorité de navigabilité différente de l'autorité de navigabilité mentionnée dans la case 1, il est essentiel que l'utilisateur/installateur s'assure que son autorité de navigabilité accepte les items libérés par l'autorité de navigabilité mentionnée dans la case 1.</i> 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. <i>Les indications portées en cases 13a et 14a ne constituent pas une certification de montage. Dans tous les cas le dossier d'entretien de l'aéronef doit contenir une certification d'installation délivrée conformément aux règlements nationaux par l'utilisateur/installateur avant que l'aéronef puisse voler.</i>						

1. 国家 Country 中国 CHINA		2. 中国民用航空总局 CAAC <input type="checkbox"/> 符合性Conformity <input checked="" type="checkbox"/> 适航性 Airworthiness <b>批准放行证书/适航批准标签</b> <b>AUTHORIZED RELEASE CERTIFICATE/AIRWORTHINESS APPROVAL TAG</b>			3. 证书编号 Certificate Ref. No. 0000000000006256259	
4. 单位 Organization Goodrich Actuation Systems SAS 13 Avenue de l'Eguillette ZI du Vert Galant 95310 Saint-Ouen l'Aumône, France				5. 工作单/合同单/货单 Work Order/Contract/Invoice 42537877 / U15027		
6. 序号 Item	7. 内容 Description	8. 件号 Part No.	9. 适用性 Eligibility *	10. 数量 Qty	11. 系列号/批号 Serial/Batch No.	12. 产品状态 Status/Work
01	T.H.S.A	47145-147	A320	1	699	MODIFIED
13. 备注 Remarks  CMM :27-44-51 REV:15 AMDTS : D,E TSN : 28714 Fhrs CSN : 30356 Fcys RECOMMENDED SHELF LIFE 60 MONTHS See, in Appendix of this Airworthiness Certificate, the Teardown Report relative to the Repair Sales Order n° 6304115 , listing, if any, all the Service Bulletins applied on the unit and their corresponding Airworthiness Directives. Inspected as per recommendation of AD N° 2017-0237/Remaining life EASA AD 2016-0184 (ALS PART 4): 38786 Fhrs 17644 Fcys Remaining flight cycles to next NBB disks regular maintenance (VSB 47145-27-17 / EASA AD 2015-0080):30000 Fcys Passed inspection as per instructions of AD N° 2012-0175R2 / The next inspection of the ballscrew lower splines must not exceed 24 months after installation of the unit on the aircraft						
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和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		19. 中国民航总局授权 Issued by or on behalf of the CAAC		
		30/AUG/2018		F03300551		
17. 批准人姓名(打印的) Name(Printed)						
BAPTISTE PATEREAU						



1. Approving competent Authority/Country/ Autorité Compétente / Pays DIRECTION GENERALE DE L'AVIATION CIVILE FRANCE		2. <b>AUTHORISED RELEASE CERTIFICATE</b> <b>Certificat Libérateur Autorisé</b> <b>EASA Form 1</b> <b>Formulaire 1 de l'EASA</b>				3. Form Tracking Number N° de repère du Formulaire 0000000000006256254  Page 1 of 1	
4. Organisation Name and Address: Nom et Adresse de l'Organisme :				Goodrich Actuation Systems SAS 13 Avenue de l'Eguillette ZI du Vert Galant 95310 Saint-Ouen l'Aumône, France		5. Work Order/Contract/Invoice Bon de commande/ Contrat/ Facture  42537877 / U15027	
6. Item/Item	7. Description/Description	8. Part No./N° de pièce	9. Qty/Qté	10. Serial No./N° série	11. Status/Work Etat/Travaux		
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13a. Certifies that the items identified above were manufactured in conformity to: Certifie que les éléments identifiés ci-dessus ont été fabriqués conformément aux :			14a. <input checked="" type="checkbox"/> Part 145.A.50 Released to Service Approbation pour remise en service selon Partie 145.A.50		<input checked="" type="checkbox"/> Other regulation specified in Block 12 Autre réglementation précisée en case 12.		
<input type="checkbox"/> approved design data and are in a condition for safe operation données de conception approuvées et sont en état de fonctionner en toute sécurité  <input type="checkbox"/> non-approved design data specified in Block 12 données de conception non approuvées spécifiées dans la case 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 to release for service. Certifie que, sauf indication contraire spécifiée en case 12, les travaux identifiés en case 11 et décrits en case 12, ont été réalisés conformément à la Partie 145 et qu'au vu de ces travaux, les pièces sont considérées prêtes à la remise en service.				
13b. Authorised Signature / Signature autorisée		13c. Approval / Authorisation Number Numéro d'agrément/d'autorisation		14b. Authorised Signature / Signature autorisée		14c. Certificate / Approval Ref. No N° du Certificat/Agrément FR.145.0051	
13d. Name / Nom		13e. Date (dd mmm yyyy) / Date(jj mmm aaaa)		14d. Name / Nom BAPTISTE PATEREAU		14e. Date (dd mmm yyyy) / Date(jj mmm aaaa) 30 AUG 2018	
<b>USER/INSTALLER RESPONSIBILITIES / Responsabilités de l'utilisateur/ installateur</b>  This certificate does not automatically constitute authority to install the item(s). Ce document ne constitue pas forcément l'autorisation d'installer l'(es) 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. Quand l'utilisateur/installateur travaille selon les réglementations d'une autorité de navigabilité différente de l'autorité de navigabilité mentionnée dans la case 1, il est essentiel que l'utilisateur/installateur s'assure que son autorité de navigabilité accepte les items libérés par l'autorité de navigabilité mentionnée dans la case 1.  Statements in block 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. Les indications portées en cases 13a et 14a ne constituent pas une certification de montage. Dans tous les cas le dossier d'entretien de l'aéronef doit contenir une certification d'installation délivrée conformément aux règlements nationaux par l'utilisateur/installateur avant que l'aéronef puisse voler.							







# WORK REPORT



## TEARDOWN REPORT

Goodrich Actuation Systems SAS  
 13, Avenue de l'Eguillette  
 BP 7186 Saint Ouen l'Aumône  
 F-95056 CERGY PONTOISE CEDEX  
 Repair Station #O6SY947N



<b>Customer</b> A J WALTER AVIATION		<b>Cust PO</b> U15027	<b>Operator PO</b>
<b>Input Part</b> 47145-137	<b>Input Serial</b> 699	<b>Qty</b> 1.000	
<b>Output Part</b> 47145-147	<b>Output Serial</b> 699	<b>Workscope</b> REPAIR	
<b>Cust Part</b>	<b>Cust Serial</b> 699	<b>Status/Work</b> MODIFIED	
<b>Description</b> T.H.S.A	<b>Removal Code</b> IRAN	<b>Failure Date</b>	
<b>Aircraft</b> AIRBUS A320	<b>Engine Type</b>	<b>Tail No</b> 044	
<b>Incoming NSN</b> N/A		<b>Outgoing NSN</b> N/A	
<b>Date Rec'd</b> 26.07.2018	<b>Quote Date</b> 13.08.2018	<b>Accept Date</b> 20.08.2018	
<b>Ship Date</b>	<b>DOM</b> 01.09.1996	<b>Last Order Date</b> 12.02.2015	
<b>Sales Order</b> 6304115	<b>Work Order</b> 42537877	<b>Notification</b> 302949775	

**Measuring Point:**

Serial #	CSN	TSN								
OUT 699	30356	28714.00								

**Internal Traceability**

**Traçabilité composants**

**INCOMING TRACEABILITY**

- PITCH TRIM ACTUATOR PN : 422082-400 SN : 335
- ELECTRONIC MODULE #1 PN : 422799-400 [#1] SN : 627
- ELECTRONIC MODULE #2 PN : 422799-400 [#2] SN : 1120
- ELECTRONIC MODULE #3 PN : 422799-100 [#3] SN : UNK
- ELECTRIC MOTOR #1 PN : 422798-310 [#1] SN : UNK
- ELECTRIC MOTOR #2 PN : 422798-310 [#2] SN : UNK
- ELECTRIC MOTOR #3 PN : 422798-310 [#3] SN : UNK
- MANUAL CONTROL BOX PN : 422414-100 SN : UNK
- SCREWJACK ASSEMBLY PN : 422024-007 SN : UNK
- DIFFERENTIAL ASSEMBLY PN : 422308-100 SN : 699
- OVERRIDE ASSEMBLY PN : 422383-200 SN : 702
- COMMAND DETECTION PACK PN : 422081-100 [COM] SN : 4376
- MONITORING DETECTION PACK PN : 422081-100 [MON] SN : 1430



## TEARDOWN REPORT

Goodrich Actuation Systems SAS  
 13, Avenue de l'Eguillette  
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 F-95056 CERGY PONTOISE CEDEX  
 Repair Station #O6SY947N



**UTC Aerospace Systems**

<b>Work Order</b>	42537877	<b>Description</b>	T.H.S.A	<b>Date Rec'd</b>	26.07.2018
<b>Input Part</b>	47145-137	<b>Input Serial</b>	699		
<b>Cust Part</b>		<b>Cust Serial</b>	699		
<p>RIGHT HYDRAULIC MOTOR PN : 46012 [R] SN : UNK                  LEFT HYDRAULIC MOTOR PN : 46012 [L] SN : KD07                  RIGHT HYDRAULIC BLOCK PN : 422079-100 [R] SN : 1419                  LEFT HYDRAULIC BLOCK PN : 422079-100 [L] SN : 2999                  RIGHT BRAKE PN : 422078-100 [R] SN : 1339                  LEFT BRAKE PN : 422078-100 [L] SN : 1331</p> <p>-----</p> <p>OUTPUT TRACEABILITY</p> <p>PITCH TRIM ACTUATOR PN : 422082-400 SN : 1029                  ELECTRONIC MODULE #1 PN : 422799-500 [#1] SN : 27567                  ELECTRONIC MODULE #2 PN : 422799-500 [#2] SN : 28078                  ELECTRONIC MODULE #3 PN : 422799-500 [#3] SN : 28080                  ELECTRIC MOTOR #1 PN : 422798-310 [#1] SN : UNK                  ELECTRIC MOTOR #2 PN : 422798-310 [#2] SN : UNK                  ELECTRIC MOTOR #3 PN : 422798-310 [#3] SN : UNK                  MANUAL CONTROL BOX PN : 422414-100 SN : CA727773/19                  SCREWJACK ASSEMBLY PN : 5000C5104 SN : 707</p>					
<p>DIFFERENTIAL ASSEMBLY PN : 422308-100 SN : 699                  OVERRIDE ASSEMBLY PN : 422383-200 SN : 702                  COMMAND DETECTION PACK PN : 422081-100 [COM] SN : 4376                  MONITORING DETECTION PACK PN : 422081-100 [MON] SN : 1430                  RIGHT HYDRAULIC MOTOR PN : 42049 [R] SN : JY52E                  LEFT HYDRAULIC MOTOR PN : 42049 [L] SN : AC638E                  RIGHT HYDRAULIC BLOCK PN : 422079-200 [R] SN : GAS1765                  LEFT HYDRAULIC BLOCK PN : 422079-200 [L] SN : 3693</p>					



**TEARDOWN REPORT**

Goodrich Actuation Systems SAS  
 13, Avenue de l'Eguillette  
 BP 7186 Saint Ouen l'Aumône  
 F-95056 CERGY PONTOISE CEDEX  
 Repair Station #O6SY947N



<b>Work Order</b>	42537877	<b>Description</b>	T.H.S.A	<b>Date Rec'd</b>	26.07.2018
<b>Input Part</b>	47145-137	<b>Input Serial</b>	699		
<b>Cust Part</b>		<b>Cust Serial</b>	699		

RIGHT BRAKE    PN : 422078-100 [R]    SN : DU2420  
 LEFT BRAKE    PN : 422078-100 [L]    SN : DU09455

**Discrepancies**

**Teardown Report**

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CMM REFERENCE : 27-44-51

CMM REVISION : 15

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PART NUMBER IN : 47145-137

PART NUMBER OUT : 47145-147

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AMENDMENTS IN : D

AMENDMENTS OUT : D,E

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WARRANTY STATUS : WARRANTY NOT REQUESTED

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REMOVAL REASON :

UNIT DID NOT FLY AFTER 2012

REPAIR AND PERFORM NBB DISK REPLACEMENT ( VSB 47145-27-17)

IF UNIT IS HIGHLY CORRODED PERFORM THE RELIFE  
 (VSB 47145-27-19)

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CERTIFICATIONS :

PART145

FAR145

TCAC

CCAR145

.....

VISUAL INSPECTION :



# TEARDOWN REPORT

Goodrich Actuation Systems SAS  
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F-95056 CERGY PONTOISE CEDEX  
Repair Station #O6SY947N



**UTC Aerospace Systems**

<b>Work Order</b>	42537877	<b>Description</b>	T.H.S.A	<b>Date Rec'd</b>	26.07.2018
<b>Input Part</b>	47145-137	<b>Input Serial</b>	699		
<b>Cust Part</b>		<b>Cust Serial</b>	699		

No defect observed :

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**DIAGNOSTIC FINDINGS :**

Internal leakage out of acceptable range  
Lubricating oil external leakage : 422079  
Lubricating oil external leakage : 421924  
Lubricating oil external leakage : 422078

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**DISASSEMBLY FINDINGS :**

No defect observed :

\*\*\*\*\*  
**WORK PERFORMED :**

SHELF LIFE RENEWAL PERFORMED  
ALL DEFECTIVE PARTS HAVE BEEN REPLACED  
ALL NEEDED MODIFICATIONS HAVE BEEN IMPLEMENTED  
A COMPLETE ACCEPTANCE TEST HAS BEEN PERFORMED  
THE FINISHING OPERATION HAS BEEN PERFORMED ON THE UNIT

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**SERVICE BULLETINS APPLIED :**

47145-27-08 Rev - Dated 23 January 2006 (APPLIED)  
47145-27-10 Rev 1 Dated 04 June 2012 (APPLIED)  
47145-27-16 Rev 4 Dated 16 July 2015 (APPLIED)  
47145-27-17 Rev 1 Dated 21 July 2015 (APPLIED)



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<b>Work Order</b>	42537877	<b>Description</b>	T.H.S.A	<b>Date Rec'd</b>	26.07.2018
<b>Input Part</b>	47145-137	<b>Input Serial</b>	699		
<b>Cust Part</b>		<b>Cust Serial</b>	699		

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**AIRWORTHINESS DIRECTIVES :**

EASA AD 2012-0175R2  
 EASA AD 2015-0080

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**FAILURE CATEGORY :**  
 PRIMARY FAULT : Lubricating oil external leakage  
 FAILURES FOUND DURING DIAGNOSTIC  
 REPAIR CHARGEABLE TO CUSTOMER  
 FAILURE CONFIRMED

**Components :**

Order	Material	Description	Req Qty	Issued	Reason Code	Stor Loc
42537877	D90ST5006-011	SCREW	0	0	SB 47145-27-17	
42537877	422078	BRAKE	0	0	TEST FAILURE	
42537877	8552-641	PACKING, O-RING	0	0	DISASSEMBLY	
42537877	8550-641	'O'RING SEAL	0	0	ASSEMBLIES FITTING	
42537877	8549-641	PACKING, O-RING	0	0	DISASSEMBLY	



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Work Order	42537877	Description	T.H.S.A	Date Rec'd	26.07.2018
Input Part	47145-137	Input Serial	699		
Cust Part		Cust Serial	699		
42537877	8548-541	PACKING, O-RING	0	0	DISASSEMBLY
42537877	8547-841	PACKING, O-RING	0	0	DISASSEMBLY
42537877	8547-641	O RING SEAL	0	0	DISASSEMBLY
42537877	8546-741	O RING SEAL	0	0	DISASSEMBLY
42537877	8544-741	'O'RING SEAL	0	0	DISASSEMBLY
42537877	8543-541	PACKING	0	0	DISASSEMBLY
42537877	8542-741	SEAL	0	0	DISASSEMBLY
42537877	8507-017	PAD	0	0	DISASSEMBLY
42537877	8507-016	SLIPPER	0	0	DISASSEMBLY
42537877	8504-092	RING	0	0	DISASSEMBLY
42537877	8203-000	RING R, ELECTRICAL	0	0	DISASSEMBLY
42537877	422211-200	MATCHED DISTRIBUTOR ASSEMBLY	0	0	DAMAGED
42537877	329201-009	SLIPPER	0	0	DISASSEMBLY
42537877	341022	FILTER	0	0	DISASSEMBLY
42537877	422555	SLIPPER	0	0	DISASSEMBLY
42537877	422554	SEAL	0	0	DISASSEMBLY
42537877	422469	SEAL	0	0	DISASSEMBLY
42537877	422219	PLUG	0	0	DISASSEMBLY
42537877	422212	CUP	0	0	DISASSEMBLY
42537877	340313-009	SEAL	0	0	DISASSEMBLY
42537877	329198-009	SLIPPER	0	0	DISASSEMBLY
42537877	336414	PLATE	0	0	MISSING
42537877	8535-841	SEAL	4	4	ASSEMBLIES FITTING
42537877	9041-100	PLATE	1	1	SB 47145-27-08
42537877	8568-456	PACKING, O-RING	1	1	THRESHOLD REPAIR
42537877	8561-556	PACKING, O-RING	2	2	THRESHOLD REPAIR
42537877	8552-756	ORING	1	1	ASSEMBLIES FITTING
42537877	8549-656	PACKING, O-RING	1	1	THRESHOLD REPAIR
42537877	8546-756	PACKING	1	1	THRESHOLD REPAIR



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Input Part	47145-137	Input Serial	699		
Cust Part		Cust Serial	699		
42537877	8535-556	PACKING	2	2	ASSEMBLIES FITTING MAG4
42537877	8481-218	SEAL	2	2	THRESHOLD REPAIR MAG4
42537877	8480-107	SEAL	1	1	THRESHOLD REPAIR MAG4
42537877	1734-00E	WASHER	14	14	THRESHOLD REPAIR MAG4
42537877	4771-442	SCREW	4	4	WORN MAG4
42537877	4770-462	SCREW	2	2	WORN MAG4
42537877	4770-222	SCREW	15	15	WORN MAG4
42537877	4768-162	BOLT	4	4	WORN MAG4
42537877	450644-785	SCRAPER	1	1	THRESHOLD REPAIR MAG4
42537877	422431-100	SEAL	2	2	THRESHOLD REPAIR MAG4
42537877	3228-212	WASHER	4	4	WORN MAG4
42537877	3233-212	WASHER	17	17	WORN MAG4
42537877	4168-102	SCREW	1	1	WORN MAG4
42537877	422160-100	SIGHT	1	1	WORN MAG4
42537877	422386-100	SHIM	1	1	DISASSEMBLY MAG4
42537877	422388-100	SEAL	1	1	THRESHOLD REPAIR MAG4
42537877	8538-741	PACKING	16	16	ASSEMBLIES FITTING MAG4
42537877	8549-856	PACKING, O-RING	1	1	DISASSEMBLY MAG4
42537877	420941	PLUG	1	1	damaged MAG4
42537877	8137-360	BALL	6	6	WORN MAG4
42537877	450080	WASHER	6	6	worn MAG4
42537877	4668-102	SCREW	8	8	CORRODED MAG4
42537877	450000	RING	1	1	FINISHING MAG4
42537877	422701	PRECASTING SHIM	1	1	ADJUSTMENT MAG4
42537877	422295	SHIM	1	1	THRESHOLD REPAIR MAG4
42537877	8560-556	PACKING, O-RING	1	1	THRESHOLD REPAIR MAG4



## TEARDOWN REPORT

Goodrich Actuation Systems SAS  
 13, Avenue de l'Eguillette  
 BP 7186 Saint Ouen l'Aumône  
 F-95056 CERGY PONTOISE CEDEX  
 Repair Station #O6SY947N



Work Order	42537877	Description	T.H.S.A	Date Rec'd	26.07.2018
Input Part	47145-137	Input Serial	699		
Cust Part		Cust Serial	699		
42537877	450583	SEAL	1	1	THRESHOLD REPAIR MAG4
42537877	422298-100	PLATE	1	1	THRESHOLD REPAIR MAG4
42537877	3199-054	WASHER	3	3	THRESHOLD REPAIR MAG4
42537877	450648	SEAL	1	1	THRESHOLD REPAIR MAG4
42537877	422278	CUP	1	1	THRESHOLD REPAIR MAG4
42537877	663545-014	COVER	2	2	FINISHING MAG4
42537877	663545-012	PROTECTION COVER	1	1	FINISHING MAG4
42537877	663545-010	COVER	1	1	FINISHING MAG4
42537877	4770-222	SCREW	5	5	WORN MAG4
42537877	3233-212	WASHER	5	5	WORN MAG4
42537877	422298-100	PLATE	1	1	THRESHOLD REPAIR MAG4
42537877	3199-054	WASHER	3	3	THRESHOLD REPAIR MAG4
42537877	450648	SEAL	1	1	THRESHOLD REPAIR MAG4
42537877	422278	CUP	1	1	THRESHOLD REPAIR MAG4
42537877	4768-352	SCREW	8	8	WORN MAG4
42537877	3228-212	WASHER	8	8	WORN MAG4
42537877	3220-212	WASHER	6	6	WORN MAG4
42537877	8560-556	PACKING, O-RING	1	1	THRESHOLD REPAIR MAG4
42537877	450583	SEAL	1	1	THRESHOLD REPAIR MAG4
42537877	8567-456	PACKING, O-RING	1	1	THRESHOLD REPAIR MAG4
42537877	3670-244	NUT	1	1	THRESHOLD REPAIR MAG4
42537877	2670-010	SPLIT PIN	1	1	THRESHOLD REPAIR MAG4
42537877	1734-00E	WASHER	4	4	THRESHOLD REPAIR MAG4
42537877	422660	SKIRT	1	1	THRESHOLD REPAIR MAG4

## TEARDOWN REPORT

Goodrich Actuation Systems SAS  
 13, Avenue de l'Eguillette  
 BP 7186 Saint Ouen l'Aumône  
 F-95056 CERGY PONTOISE CEDEX  
 Repair Station #O6SY947N



**UTC Aerospace Systems**

Work Order	42537877	Description	T.H.S.A	Date Rec'd	26.07.2018
Input Part	47145-137	Input Serial	699		
Cust Part		Cust Serial	699		
42537877	422498	SEAL	1	1	THRESHOLD REPAIR MAG4
42537877	422295	SHIM	1	1	THRESHOLD REPAIR MAG4
42537877	D90ST8013-000	SEAL	2	2	THRESHOLD REPAIR MAG4
42537877	8560-556	PACKING, O-RING	2	2	THRESHOLD REPAIR MAG4
42537877	5868-132	SCREW	4	4	ASSEMBLIES FITTING MAG4
42537877	4644-062	SCREW	6	6	THRESHOLD REPAIR MAG4
42537877	450000	RING	1	1	FINISHING MAG4
42537877	422701	PRECASTING SHIM	1	1	ADJUSTMENT MAG4
42537877	422322	SCREW	2	2	ASSEMBLIES FITTING MAG4
42537877	4771-352	SCREW	4	4	DAMAGED MAG4
42537877	3237-122	WASHER, FLAT DIA.328	16	16	WORN MAG4
42537877	422705	PLUG	2	2	FINISHING MAG4
42537877	422704	PLUG	2	2	FINISHING MAG4
42537877	422224	SHIM	1	1	THRESHOLD REPAIR MAG4
42537877	5000E5098	LIP SEAL DIA 1.5	2	2	THRESHOLD REPAIR MAG4
42537877	422241-200	DEFLECTR	2	2	THRESHOLD REPAIR MAG4
42537877	422332	SEAL	2	2	DISASSEMBLY MAG4
42537877	422239	SHIM	2	2	THRESHOLD REPAIR MAG4
42537877	450643	SPRING GUIDE	1	1	THRESHOLD REPAIR MAG4
42537877	422600	EXTENSION PLUG	1	1	DAMAGED MAG4
42537877	422483	PLUG	2	2	WORN MAG4
42537877	422479	GASKET	2	2	DISASSEMBLY MAG4
42537877	422455	SEAL	1	1	THRESHOLD REPAIR MAG4
42537877	422319	SPACER	1	1	THRESHOLD REPAIR MAG4



## TEARDOWN REPORT

Goodrich Actuation Systems SAS  
 13, Avenue de l'Eguillette  
 BP 7186 Saint Ouen l'Aumône  
 F-95056 CERGY PONTOISE CEDEX  
 Repair Station #O6SY947N



**UTC Aerospace Systems**

Work Order	42537877	Description	T.H.S.A	Date Rec'd	26.07.2018
Input Part	47145-137	Input Serial	699		
Cust Part		Cust Serial	699		
42537877	422315	PAD	1	1	THRESHOLD REPAIR MAG4
42537877	422312	SEAL	1	1	THRESHOLD REPAIR MAG4
42537877	422275	GASKET	1	1	THRESHOLD REPAIR MAG4
42537877	422223	PLATE	1	1	DAMAGED MAG4
42537877	422136	BREATHER	1	1	DAMAGED MAG4
42537877	421792	PACKING	2	2	THRESHOLD REPAIR MAG4
42537877	421224	PLUG	1	1	DAMAGED MAG4
42537877	5868-192	SCREW	4	4	ASSEMBLIES FITTING MAG4
42537877	4668-134	SCREW	8	8	ASSEMBLIES FITTING MAG4
42537877	3670-244	NUT	1	1	THRESHOLD REPAIR MAG4
42537877	4770-212	SCREW	4	4	WORN MAG4
42537877	3233-212	WASHER	4	4	WORN MAG4
42537877	694016	TIE WRAP	2	2	FINISHING MAG4
42537877	663545-014	COVER	2	2	FINISHING MAG4
42537877	663545-010	COVER	2	2	FINISHING MAG4
42537877	4770-222	SCREW	6	6	MISSING MAG4
42537877	4644-102	SCREW, SOCKET HEAD	6	6	WORN MAG4
42537877	3233-212	WASHER	6	6	MISSING MAG4
42537877	422078-100	BRAKE	2	2	TEST FAILURE PREN
42537877	421924-200	MOTOR	2	2	INTERNAL LEAKAGE PREN
42537877	422082-400	PITCH TRIM ACTUATOR	1	1	TEST FAILURE RHSA

<p>Author : <i>PATREAN</i>                  Print name :                  Signature: <i>[Signature]</i>                  Date: <i>30 AUG 2018</i></p>	<p>Authorized Approval :                  Print name :                  Signature:                  Date:</p>
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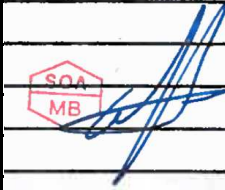
# MOVEMENT TRACEABILITY SHEET





# ALS PART 4 - Component movement Traceability Sheet

**COMPONENT DESCRIPTION: \_\_\_\_\_ THSA 47145-147 , SN: 699**

DATE			PART			ASSY				AIRCRAFT					ENDORSEMENT	
On	Off	Reason	P/N	TSN	LSN	P/N	S/N	TSO	LSO	Model	MSN	WV	TSN	LSN		POS
13 Jan 1997			47145-131	0	0	-	-	-	-	A319	647		0	0	9CE	
	11 Jan 2007	Repair	47145-131	20034	21440	-		-	-	A319			20034	21440		
05 Mar 2007			47145-137	20034	21440					A320	044		34762	37683	9CE	
	05 Apr 2012	AC dismantled	47145-137	28714	30356					A320			43442	46599		
<b>MAJOR REPAIRS</b>						<b>REMARKS</b>										
<b>Airbus repair N°</b>	<b>Approval date</b>	<b>Reduced life limit</b>		NBB disk replaced as mandated by EASA AD 2015-0080 in 2018 at CSN = 30356 FC  <b>LIFE LIMITED PART</b>												
		TSN	LSN													
No major repairs known																





TRACE





The Headquarters, Maydwell Avenue, Slinfold, West Sussex, RH13 0AS, United Kingdom  
t: +44 1403 798000 f: +44 1403 710936 e: enquiries@ajw-aviation.com www.ajw-group.com

Date: December 11th 2018.

**Re: Storage and Storage Standard Statement for A320 Family THS Actuator PN: 47145-147 SN: 699**

To whom it may concern,

AJW Aviation certifies that subject A320 Family THS Actuator PN: 47145-147 SN: 699 , ex Air France as detailed AFI MTS dated April 30<sup>th</sup> 2018 & UTC MTS dated December 12<sup>th</sup> 2018, has not been subject to extremes of temperature or humidity and has been stored in accordance with Industry standards and as detailed in AJW Aviation Storage Work Instruction QW137 between off log as detailed AFI MTS dated April 30<sup>th</sup> 2018 & UTC MTS dated December 12<sup>th</sup> 2018 through until current.

Additionally, AJW storage conditions meet industry standard specifications for satisfactory storage and preservation of subject A320 Family THS Actuator. AJW can confirm that the subject A320 Family THS Actuator will continued to be stored as detailed above through to utilisation.

Best Regards

Mike Dean

*Mike Dean - December 11/2018*



Programme Manager - Strategic Material & Asset Management

AJW Group  
The Headquarters  
Maydwell Avenue  
Slinfold  
RH13 0AS  
United Kingdom





Airbus Industrie

## Aircraft Inspection Report

Aircraft  
A319 -113

Chapter 5

e: 22/84

## Equipment

ATA: 27

Serial No: 00647

DATE: 6 FEB 1997

Zone	Functional Item-Number	Description	Vendor-Code Vendor	Weight (kg) / Date (MM.YY) Part-No	Accept-Date CMS	B F E	Remarks Serial-No.
684	31CE 8	SERVOCONTROL-SPOILER,	F6103 LUCAS AIR EQUIPEMENT	31077-100	6900305800		S4598
585	31CE 9	SERVOCONTROL-SPOILER,	F6103 LUCAS AIR EQUIPEMENT	31077-100	6900305800		S4597
685	31CE 10	SERVOCONTROL-SPOILER,	F6103 LUCAS AIR EQUIPEMENT	31077-100	6900305800		S4592
311	9CE	ACTUATOR ASSY-THS	F6103 LUCAS AIR EQUIPEMENT	47145-131	6900330100		699
325	10CC	ACTUATOR-RUDDER TRIM	F0396 AVIAC ETS SA.	6137-3	6901600400		850
127	1CE 1	SEC-SPOILER ELEVATOR	F9111 SEXTANT AVIONIQUE	B372BAM0509	6914335700		5616
128	1CE 2	SEC-SPOILER ELEVATOR	F9111 SEXTANT AVIONIQUE	B372BAM0509	6914335700		5624
121	1CE 3	SEC-SPOILER ELEVATOR	F9111 SEXTANT AVIONIQUE	B372BAM0509	6914335700		5682
127	2CE 1	ELAC-ELEVATOR AILERON	F9111 SEXTANT AVIONIQUE	3945122504	6914337900		5540
128	2CE 2	ELAC-ELEVATOR AILERON	F9111 SEXTANT AVIONIQUE	3945122504	6914337900		5539
325	4CC	TLU-TRAVEL LIMITATION	F1549 ARTUS SA	DV8456701-5	6918601300		769
127	43CE	PSDU-POWER SUPPLY DEC	F0214 ECE	530AL01CN	6925002700		1846
127	45CE	PSDU-POWER SUPPLY DEC	F0214 ECE	530AL01CN	6925002700		1847
140	10CE 1	SWITCH-PRESSURE	D2638 ELEKTRO METALL GMBH	50-2-3100-00	6926820300		6965
140	10CE 2	SWITCH-PRESSURE	D2638 ELEKTRO METALL GMBH	50-2-3100-00	6926820300		6969

**Direction Entretien Avions**

Produit Moyen Courrier

PURCHASER or LEASER  
To whom it may concern

O/Ref. : MT.YO  
Tél. : 00.33.1.48.64.39.97  
Objet : No accident statement

Roissy, April the 12th, 2012

**ACCIDENT STATEMENT**

I hereby the undersigned certify that the aircraft

Model	A320-211
Delivered by	AIRBUS
On	<b>DATE</b> . 06 / 04 / 1989
Manufacturer Serial Number	MSN044
Registration	<b>F- GHQC</b>

Has accumulated 43 442 FH and 46 599 CYC

Has not been involved in any Accident, as such term is defined Annex 13 paragraph (b) of the ICAO definition of Accident, during the period it has been operated by society Air France from April the 6th, 1989 to April the 6th, 2012, and to the best of our knowledge, components installed, while in Air France operation, have not been involved in any major accident.

Laurent SASTRE  
MT.YO  
Maintenance Project Manager

  
SASTRE L.  
15985701

BP 12253 Tremblay en France F-95704 Roissy Charles de Gaulle Cedex  
Tél. : +33 (0)1 48 64 12 45  
Société Air France, société anonyme au capital de 1 901 231 625 Euros,  
420 495 178 RCS Bobigny  
Siège social : 45, rue de Paris 95747 Roissy CDG cedex  
[www.airfrance.com](http://www.airfrance.com)



## BILL OF SALE

SOCIÉTÉ AIR FRANCE ("Seller"), a corporation organized under the laws of France, is the owner of the full legal and beneficial title to the following equipment, all as described in the Aircraft Purchase Agreement (the "Purchase Agreement") between Seller and BAM A320,LLC ("Buyer") dated as of April 2<sup>nd</sup>, 2012 (collectively, the "Aircraft"):

1. One Airbus Model A320-200 aircraft bearing manufacturer's serial number 044.
2. Two (2) CFM56-5A1 engines bearing manufacturer's serial numbers 731171, and 731590 .
3. All appliances, parts, instruments, appurtenances, accessories, furnishings or other equipment or property installed in or attached to such aircraft and engines.
4. All records and manuals applicable to such aircraft and engines.

For and in consideration of the sum of One United States Dollar (US\$1) and other valuable consideration, receipt of which is hereby acknowledged, Seller does hereby sell, grant, transfer, sell, deliver and set over to Buyer and its successors and assignees forever all of Seller's right, title and interest in and to the Aircraft, to have and to hold the Aircraft for its and their use forever.

Seller does sell and transfer to Buyer the Aircraft, in its "as is, where is" condition and otherwise without recourse or warranty by Seller of any nature save as expressly set forth in the Purchase Agreement and the immediately succeeding sentence. Seller hereby represents and warrants to Buyer and its successors and assigns that Seller holds valid and marketable title to the Aircraft and Seller hereby conveys to Buyer on the date hereof title to the Aircraft free and clear of all liens, claims, charges and encumbrances whatsoever and that Seller will warrant and defend such title forever against all claims and demands.

This Bill of Sale shall be governed by the laws of the State of New York.

Capitalized terms used herein but not defined herein shall have the meanings provided in the Purchase Agreement.

IN TESTIMONY WHEREOF we have set our hand and seal this 1st day of June, 2012.

SOCIÉTÉ AIR FRANCE

By:



Its:

**Patrick HALLUIN**

Aircraft Sales . Leasing Manager  
New Aircraft. Corp. Fleet Planning



2995 Lone Oak Circle • Eagan, MN 55121

August 7, 2012

TRACEABILITY DOCUMENTATION PACKAGE FOR AIRBUS MODEL A320-211 MSN 044

TO WHOM IT MAY CONCERN:

Please find attached an assortment of documents that contain Non-Incident-Statements for the aircraft serial number listed above. These documents were compiled from the operator of the aircraft from the aircraft's date of manufacture to the date the aircraft was dismantled. Also included are documents of current ownership and consignment agreements for the sale of the aircraft parts and components.

The aircraft was owned by Air France from date of manufacture until the aircraft was made available for dismantling. As the aircraft was solely operated by that airline, it was maintained per the OEM Maintenance and Inspection program utilizing the applicable OEM documents.

The aircraft accumulated a total of 43,442 Flight Hours (FH), 46,599 Cycles (CYC) and was delivered to Air France in April, 1989. It was removed from service in April 2012.

Page 1: Letter dated 8-7-2012; Worthington Aviation Traceability Cover Letter.

Page 2: Letter dated 4-12-2012; Non Incident Statement Letter from Air France for the period of 4-6-1989 to 4-6-2012.

Page 3: Letter dated 8-7-2012; Non Incident Statement Letter from Worthington Aviation for the dates from 4-7-2012 to 5-31-2012 attesting to the NIS letter previously identified from Air France.

Page 4: Letter dated 7-31-2012; Non Incident Statement Letter from Brickell Asset Management from the dates of 6-1-2012 to 6-4, 2012.

Page 5: Purchase Agreement and Warranty Bill of Sale for Airbus A320-211 MSN 044.

Page 6: Page two of above listed document pertaining to the Purchase Agreement and sale of the aforementioned aircraft.

Page 7: Letter dated 6-4-2012; Delivery Document Receipt Signature Page for MSN 044.

Page 8: Letter dated 7-31-2012; Non Incident Statement Letter Worthington Aviation from the dates of 6-5-2012 to 6-14, 2012.

Page 9: Letter dated 6-14-2012; Authorization from Worthington Aviation for the dismantling of Airbus A320-11 MSN 044 by Air One Maintenance.

Should you have further questions concerning the traceability history for this aircraft please contact:

Bradley D. Baker  
Vice President of Quality Systems  
Worthington Aviation  
001-651-994-1600  
bbaker@worthingtonav.com

The Trusted Source

Phone: 651.994.1600 • Fax: 651.393.3310 • www.worthingtonav.com

Parts • Service • Sales





2995 Lone Oak Circle • Eagan, MN 55121

August 7, 2012

**RE: FGHQC**

To Whom It May Concern:

To the best of our knowledge, awareness and understanding, Airbus A 320-211 MSN 044 has been determined not to have been involved in any accident, incident, or occurrence involving extreme heat such as fire, immersion in salt water or operated by a government or military entity. This determination was made using the data from the previously dated Air France NIS letter from 4-6-2012 and the Brickell Asset Management letter dated 7-31-2012.

The aircraft described above was still owned by Air France from 4-7-2012 to 5-31-2012.

Regards,

Bradley D. Baker  
Vice President of Quality Systems  
Worthington Aviation  
651-994-1600

July 31, 2012

RE: Airbus A 320-211; MSN 044 (the "Aircraft")

To Whom It May Concern:

The Aircraft described above was owned by BAM A320, LLC (BAM) from June 1, 2012 to June 4, 2012. To the best of BAM's knowledge, during the time it owned the Aircraft, the Aircraft had not been involved in any accident, incident, or occurrence involving extreme heat such as fire, immersion in salt water or operated by a government or military entity.

Very truly yours,

By: Francis A. Anania, Managing Member of  
Brickell Asset Management XX, LLC,  
the Manager of BAM A320, LLC.

**WARRANTY BILL OF SALE  
(MSN 044)**

June 4, 2012

The undersigned, BAM A320, LLC, ("Seller") is the owner of and has full title to the Airbus 320-211 airframe bearing manufacturer serial number 044 with Registration F-GHQC, and all available records, manuals, logs and documents pertaining to the foregoing (the "Airframe"). Seller and WORTHINGTON AVIATION PARTS, INC. ("Buyer"), have entered into that certain Airframe Purchase Agreement dated as of May 8, 2012 (the "Purchase Agreement"). Capitalized terms used herein and not otherwise defined shall have the respective meanings set forth in the Purchase Agreement.

For and in consideration of good and valuable consideration, the sufficiency of which is hereby acknowledged, Seller does hereby grant, convey, transfer, bargain, sell and deliver all of its right, title and interest in and to the Airframe unto Buyer and to Buyer's successors and assigns forever.

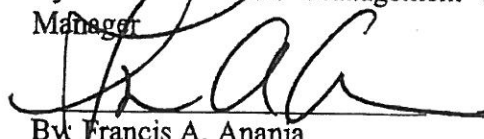
Seller sells and Buyer, by its acceptance hereof, takes the Airframe "as-is, where-is" and, except as expressly stated herein, Seller makes no representations or warranties, express or implied, arising by law or otherwise, with respect to the Airframe, except that Seller hereby warrants to Buyer, its successors and assigns, that on the date hereof, Seller does hereby sell, convey, transfer and assign to Buyer, good and marketable title to the Airframe free and clear of any liens, claims, encumbrances, security interest and rights of others, and Seller agrees that it will defend forever such title so conveyed against all claims and demands whatsoever

This Warranty Bill of Sale (044) shall be governed by and construed in accordance with the laws of the State of Florida.

IN WITNESS WHEREOF, the undersigned has caused this Warranty Bill of Sale (044) to be duly executed and delivered as of the date first written above.

BAM A320, LLC

By: ~~Brickell Asset Management XX, LLC, its  
Manager~~

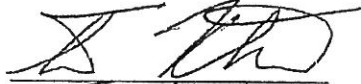


By: Francis A. Anania  
Managing Member of Brickell Asset Management  
XX, LLC

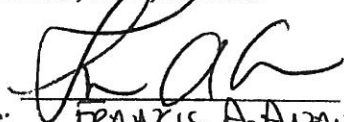


**IN WITNESS WHEREOF**, the parties have caused this Airframe Purchase Agreement to be executed by their duly authorized representatives as of the date first written above.

WORTHINGTON AVIATION PARTS, INC.,  
as Buyer

By:   
Name: Tim Kautson  
Title: VP- Operations

BAM A320, LLC, as Seller

By:   
Name: FRANCIS A. ANANIA  
Title: Managing Member

**EXHIBIT A**

**FORM OF DELIVERY RECEIPT**

As of this 4<sup>th</sup> day of June 2012, WORTHINGTON AVIATION PARTS, INC. ("Buyer"), accepts delivery at Opa Locka, Florida of that certain Airbus model 320-211 airframe bearing manufacturer's serial number 044, and all available records, manuals, logs and documents pertaining to the foregoing (the "Airframe") pursuant to the terms of that certain Airframe Purchase Agreement dated as of May 8, 2012 (the "Purchase Agreement") among Buyer and BAM A320, LLC, ("Seller"). Capitalized terms used but not defined herein have the meanings ascribed thereto in the Purchase Agreement.

Buyer hereby unconditionally and irrevocably acknowledges and agrees that (i) Seller has satisfied, or Buyer has waived, each of the conditions precedent under Section 4.1 of the Agreement and (ii) the Airframe is accepted on the terms set forth in the Agreement.

WORTHINGTON AVIATION PARTS, INC.,  
as Buyer

By:



Print:

Tim Knutson

Title:

VP- Operations



2995 Lone Oak Circle • Eagan, MN 55121

July 31, 2012

**RE: FGHQC**

To Whom It May Concern:

To the best of our knowledge, awareness and understanding, Airbus A 320-211 MSN 044 has not been involved in any accident, incident, or occurrence involving extreme heat such as fire, immersion in salt water or operated by a government or military entity while in the possession of Worthington Aviation, from 6-5-2012 to 6-14-2012.

The aircraft described above was previously owned by both Brickell asset Management and Air France.

Regards,

Bradley D. Baker  
Vice President of Quality Systems  
Worthington Aviation  
651-994-1600



WORTHINGTON<sup>™</sup>  
A V I A T I O N  
2995 Lone Oak Circle • Eagan, MN 55121

June 14, 2012

Air One Maintenance  
14800 Northwest 42<sup>nd</sup> Avenue Hangar 49  
Suite 110  
Miami, Florida 33054

Attn: Mr. Vince Quinn

Re: A320-211 Disassembly

Dear Mr. Quinn:

This letter is to confirm that Worthington Aviation is the owner of one A320-211, serial number 044, Registry F-GHQC that is currently parked in Opa-Locka, Florida. In addition, Worthington Aviation has contracted with Air One Maintenance to disassemble the airplane for the purposes of selling the components in the open market.

Air One Maintenance is hereby authorized to perform the disassembly as described in the Maintenance Contract dated May 10, 2012 and to dispose of the aircraft hull once the part-out process is completed.

Very truly yours,



Tim Knutson  
Vice President – Operations  
Worthington Aviation



AIR ONE MAINTENANCE & ENGINEERING LLC  
14800 NW 42<sup>ND</sup> AVE. HANGAR 49, SUITE 110, MIAMI, FL 33054

### SHOP I.D. TAG

CUSTOMER: *Worthington*

PART No. *47145-137* SERIAL No. *699*


PART NAME: *Lucas Air Equip*


TAIL No. *FGH RC* WORK ORDER: *70049* TASK No. POSITION:

CHECK ONE AS REMOVED  STORAGE  CUSTOMER RQST

OTHER  EXPLAIN:

DATE: *7/5/12* TECHNICIAN NAME & EMPLOYEE No. *PSB*

1. FRENCH REPUBLIC <i>REPUBLIQUE FRANCAISE</i>  DIRECTION GENERALE DE L'AVIATION CIVILE	2. <b>AUTHORISED RELEASE CERTIFICATE</b> <i>Certificat d'Autorisation de Mise en Service</i> <b>EASA FORM 1 - Formulaire 1 de l'EASA</b>	3. Form Tracking Number <i>No de repère du formulaire</i>  *4836987*
---	--	--

4. Approved Organisation Name and Address <i>Nom et adresse de l'organisme agréé</i>	<b>AIR FRANCE</b>  45, rue de Paris 95747 ROISSYCDG CEDEX FRANCE Location/Site: VLR	5. Work Order/Contract/Invoice <i>Bon de commande/Contrat/Facture</i> 4763610
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6. Item	7. Description	8. Part No	9. Eligibility(*)/ Admissibilité*	10. Qty/ Qté	11. Serial/Batch No No Série/Lot	12. Status/Work Etat/Travail
1	ACTUATOR ASSY THS	47145-137	UNKNOWN	1	699	MODIFIED REPAIRED TESTED

13. Remarks:  
*Remarques:*  
**GOODRICH** CMM 27-44-51 REV11 JAN06  
 SB:47145-27-05 REV00 DATED NOV 20/02  
 SB:47145-27-07 REV00 DATED AUG 01/05

A--C--C--U--M--U--L--A--T--E--D--

Life Limited	Since	Hours	Cycles	Day CA
NEW	020034	21440	3683	
OHAUL	020034	21440	3683	
REPAIR	000000	0	0	

This civil aeronautical product has been maintained, modified in accordance with United States Federal Aviation Regulations under FAA certificate No CNFY 912C



14. Certifies that the items identified above were manufactured in conformity to:  
*Il est certifié que les pièces identifiées ci-dessus ont été fabriquées conformément aux :*

approved design data and are in condition for safe operation  
*données de conception approuvées et sont en état de fonctionner en toute sécurité*

non-approved design data specified in block 13  
*données de conception non approuvées spécifiées en case 13*

19.  Part-145.A.50 Release to Service  Other regulation specified in block 13  
*Partie 145.A.50 Autorisation de remise en service Autre règlement visé à la case 13*

Certifies that unless otherwise specified in block 13 the work identified in block 12 and described in block 13, was accomplished in accordance with PART-145 and in respect to that work, the items are considered ready for release to service.  
*Certifie que, sauf indication contraire spécifiée dans la case 13, les travaux identifiés en case 12 et décrits dans la case 13 ont été réalisés conformément à la Partie 145 et que, au vu de ces travaux, l'élément est prêt à être remis en service, et qu'il peut, par conséquent, être exploité en toute sécurité.*

15. Authorised Signature <i>Signature autorisée</i>	16. Approval/Authorisation Number <i>Numéro d'agrément/autorisation</i>	20. Authorised Signature <i>Signature Autorisée</i> 	21. Certificate/Approval Ref.No. <i>No réf. du Certificat/d'agrément</i>  <b>FR.145.010</b>
17. Name/Nom	18. Date (dd/mmm/yy)/(jj/mmm/aa)	22. Name/Nom <b>FIANCETTE</b> 	23. Date (dd/mmm/yy)/(jj/mmm/aa) <b>15FEB07</b>

EASA Form 1/Formulaire 1 de l'EASA - Issue 1/ Edition 1 \*Installer must cross-check eligibility with applicable technical data /L'installateur doit vérifier l'admissibilité au moyen des données techniques pertinentes.  
**USER/INSTALLER RESPONSABILITIES / RESPONSABILITES DE L'UTILISATEUR/INSTALLATEUR**

- It is important to understand that the existence of the document alone does not automatically constitute authority to install the part/component/assembly.  
*Il est important de comprendre que ce document ne constitue pas en lui-même une autorisation d'installer la pièce/l'élément/l'ensemble.*
- Where the user/installer works in accordance with the national regulations of an Airworthiness Authority different from the Airworthiness Authority specified in block 1 it is essential that the user/installer ensures that his/her Airworthiness Authority accepts parts/components/assemblies from the Airworthiness Authority specified in block 1.  
*Lorsque l'utilisateur / installateur travaille conformément aux règlements nationaux d'une autorité responsable de la navigabilité, autre que l'autorité responsable de la navigabilité mentionnée dans la case 1, il est essentiel que l'utilisateur / installateur s'assure que son autorité responsable de la navigabilité accepte les pièces/éléments/ensembles de l'autorité responsable de la navigabilité mentionnée dans la case 1.*
- Statements 14 and 19 do not constitute installation certification. In all cases the aircraft maintenance record shall contain an installation certification issued in accordance with the national regulations by the user/installer before the aircraft may be flown.  
*Les mentions figurant dans les cases 14 et 19 ne constituent pas une certification de montage. Dans tous les cas, le dossier d'entretien de l'aéronef doit contenir une certification d'installation délivrée conformément aux règlements nationaux par l'utilisateur / installateur avant que l'aéronef puisse décoller.*

MFC27





45 rue de PARIS F-95747 ROISSY CHARLES DE GAULLE CEDEX

FAX : 33 (0) 141 560 165

TLX : RSYLOAF

WORK SHOP REPORT

No: 4836987

Customer...: TAP AIR PORTUGAL CHANTIERS TD  
Work Order.:

Dossier.....:  
Requisition No.: 00239301

Description...: ACTUATOR ASSY THS  
Part Number...: 47145-131  
Serial Number.: 699

TSN.: 20034  
CSN.: 21440

Removal from A/C.: FGPMH  
Aircraft Model...: UNKNOWN

Pos.: 0

Time...: 20034  
Cycles.: 21440

Removal Date.....: 11JAN07                      Location.: LIS  
Removal Type.....: UNSCHEDULED  
Removal Reason...: LEAK FOR HYDRAULIC MOTORS

Condition as received.....:

Work requested.....: MODIFICATION REPAIR TEST

Warranty requested.:                                      Warranty Accepted.:

Shop Finding.....: THSA LEAKAGE

Confirmation of Removal.: FAILURE FOUND - REMOVAL REASON CONFIRMED

Repair Text.....: REPAIRED,MODIFIED AND TESTED.

Documentation Reference.: GOODRICH

CMM 27-44-51 11      JAN06

Modif/Remarks.....: SB:47145-27-05 REV00 DATED NOV 20/02  
                          SB:47145-27-07 REV00 DATED AUG 01/05

New Part Number...: 47145-137  
New Serial Number.:

Parts replaced : SEE PART LIST

Issue Date.....: 15FEB07                      Name :                      **FIANCETTI**                      Repair Shop

Revision date.: 15FEB07                      Signed :                                            VLR EY34

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**AIR FRANCE**

45 rue de PARIS F-95747 ROISSY CHARLES DE GAULLE CEDEX

FAX : 33 (0) 141 560 165

TLX : RSYLOAF

## WORK SHOP REPORT

No: 4836987

-- Parts replaced --

Part Number	Description	QTY	UI
ASNA2397-416L	WASHER FLAT CARBON STEEL	10	EA
D90ST8013-000	RING	2	EA
FE134-110	PIN,ASSY	1	EA
FE151-000-41	WASHER-TAB	2	EA
MS24665-151	PIN	2	EA
MS24665-159	PIN	10	EA
MS9924-12	BOLT DOUBLE HEX HEAD	5	EA
M83248-1-027	PACKING,PREFORMED	2	EA
M83248-1-032	PACKING,PREFORMED	2	EA
M83248-1-033	PACKING,PREFORMED	1	EA
M83248-1-115	ORING*PACKING*PREFORMED	2	EA
M83248-1-903	ORING*PACKING*PREFORMED	2	EA
NAS1611-011A	ORING PACKING PREFORMED	4	EA
NAS1611-012A	ORING PACKING PREFORMED	16	EA
NAS1611-013A	ORING PACKING PREFORMED	3	EA
NAS1611-015A	ORING PACKING PREFORMED	2	EA
NAS1611-017A	ORING PACKING PREFORMED	1	EA
NAS1611-018A	ORING PACKING PREFORMED	6	EA
NAS1611-018A	ORING PACKING PREFORMED	3	EA
NAS1612-6A	ORING	2	EA
NSA5059-8	NUT	3	EA
SR156DF150	PACKING,PREFORMED	1	EA
SR29DF150	PACKING,PREFORMED	1	EA
TY253MX	STRAP	2	EA
1734-00E	WASHER,LOCK	24	EA
23310CA010010	PIN, COTTER	1	EA
23351CA050	FREIN D'ECROU TYPE ERGOT	6	EA
3245-132	WASHER FLAT DIA.515	3	EA
329201-009	SLIPPER	2	EA
421792	-PACKING	2	EA
422160-100	SIGHT GLASS	1	EA
422160-100	SIGHT GLASS	1	EA
422182	STUD	1	EA
422198-100	GEAR SPUR 30 TEETH	1	EA
422199-100	GEAR SPUR 43 TEETH	1	EA
422275	GASKET	1	EA
422278	CUP,LOCK	2	EA
422298-100	END PLATE	2	EA
422298-100	END PLATE	2	EA
422299	SHIM,PEEL	1	EA

Issue Date.....: 15FEB07

Repair Shop

Revision date.: 15FEB07

VLR EY34

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## WORK SHOP REPORT

No: 4836987

-- Parts replaced --

Part Number	Description	QTY	UI
422301	SHIM,PEEL	1	EA
422302	SHIM,ADJUSTING (PEEL)	1	EA
422312	SEAL	1	EA
422315	PAD,U	1	EA
422319	SPACER	1	EA
422320-100	LINER ASSY	1	EA
422321-100	LINER ASSY	1	EA
422322	SCREW,SPECIAL	1	EA
422332	SEAL	2	EA
422386-100	SHIM,PEEL	1	EA
422388-100	SEAL DYNAMIC	1	EA
422388-100	SEAL DYNAMIC	1	EA
422455	SEAL,PLAIN DIA38X52X7	1	EA
422469	SEAL,DYNAMIC LP	2	EA
422479	GASKET	2	EA
422479	GASKET	2	EA
422483	PLUG,INSPECTION	1	EA
422498	SEAL,DYNAMIC	1	EA
422554	SEAL,DYNAMIC	1	EA
422555	SLIPPER	1	EA
422705	BOUCHON	1	EA
450583	SEAL PLAIN	2	EA
450641	GUIDE BEARING	1	EA
450641	GUIDE BEARING	1	EA
450642	PISTON	1	EA
450642	PISTON	1	EA
450643	GUIDE SPRING	1	EA
450643	GUIDE SPRING	1	EA
450644-785	SCRAPER	1	EA
450644-785	SCRAPER	1	EA
450648	DYNAMIC SEAL	2	EA
450648	DYNAMIC SEAL	2	EA
490179	NUT,SECONDARY	2	EA
490213	WASHER-TAB	2	EA
673A16-2	BREATHER OIL	1	EA
722105-83	SEAL,PLAIN DIA18X32X7	2	EA
722290	SEAL,PLAIN DIA7X16X7	1	EA
772441	SEAL PLAIN	2	EA
8108-029	BEARING	1	EA
8483-115	SEAL,PLAIN	4	EA

Issue Date.....: 15FEB07

Repair Shop

Revision date.: 15FEB07

VLR EY34

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## WORK SHOP REPORT

No: 4836987

-- Parts replaced --

Part Number	Description	QTY	UI
8507-016	SLIPPER	3	EA
8546-756	PACKING,PREFORMED	1	EA
8549-656	PACKING,PREFORMED	1	EA
8550-656	PACKING,PREFORMED	1	EA
8557-556	PACKING,PREFORMED	2	EA
8560-556	PACKING,PREFORMED	1	EA
8603-001	GASKET	2	EA
9041-100	NAMEPLATE	1	EA
9041-100	NAMEPLATE	1	EA

Issue Date....: 15FEB07



Repair Shop

Revision date.: 15FEB07

VLR EY34

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AIR FRANCE  
 45, rue de Paris F-95747 Roissy CDG cedex  
 Ref: I711DM7012-00

Tag number <b>4763610</b>		SERVICEABLE and basic identification <b>18DE008</b>		UNSERVICEABLE and / or action performed		 <b>*4763610*</b>			
PN <b>4745-137</b> 694		RCN <b>0322838</b>		PN <b>4745-131</b>		MSN QTY <b>699</b>		RCN	
MSN QTY		Internal serial <b>003024</b>		Action performed on ACN		ACN <b>F-GRM H</b>		Pos code <b>0</b>	
Description <b>ASSEMBLY THS</b>		Storage life u. expire		Action performed on NHA		RCN PN		SN MSN <b>003026</b>	
Removed in serviceable condition from aircraft or spare unit		Container		Reason for action (removal)					
				TIME		SHOP CHECK		STORAGE LIFE	
				1		4		7	
				SWAP		MODIFICATION		FOD	
Aircraft registration or assy RCN/PN		Position code or assy SN/MSN		UNSCCHEDULE		POOL		BUILT ONLY	
				3 <input checked="" type="checkbox"/>		6		9	
		Work stop		Stat/Dept <b>LAP-LIS</b>		Sign or stamp 		Please turn over for description of unscheduled removal	
		Stat-Dept		Date <b>11 / JAN / 07</b>					

**FAILURE DESCRIPTION**

LEAK FOR HYDRAULIC MOTORS

FGPMH054