

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

2.

AUTHORIZED RELEASE CERTIFICATE
FAA Form 8130-3, AIRWORTHINESS APPROVAL TAG

3. Form Tracking Number:
Q.A.-1694-628-2018

4. Organization Name and Address:

5. Work Order/ Contract/ Invoice
Number:
2018E-628

6. Item:	7. Description:	8. Part Number:	9. Quantity:	10. Serial Number:	11. Status/Work:
1.	ENGINE	CFM56-5B2/P	1	575212	REPAIRED

12. Remarks: **ENGINE: T.T. : 38616 T.C. : 24996**

1. CUSTOMER [REDACTED] RO: R2610917 (ETR 315 REV 1).
2. REMOVED FROM A/C I-BIKC POS 1.
3. ENGINE RECEIVED FOR PERFORMANCE RESTORATION AND LLP's REPLACEMENT.
4. ENGINE WAS INSPECTED, REPAIRED AND TESTED AS REQUIRED IN ACCORDANCE WITH ENGINE SHOP MANUAL P/N: CFMI-TP.SM.9 REV.72 MAR 15, 2018.
5. ENGINE WAS CONVERTED FROM -5B4/P ENGINE DASH TO -5B2/P ENGINE DASH I.A.W CFMI SB 72-0625R2.
6. FOR DETAILS OF MAINTENANCE REFER TO MAINTENANCE RELEASE FORM APP. 2
7. FOR AD's INCORPORATED REFER TO APP. 6.
8. FOR SB's INCORPORATED REFER TO MAINTENANCE RELEASE FORM APP. 2
9. FOR TEST SUMMARY SHEET REFER TO APP. 12
10. FOR ENGINE BORESCOPE CHECK REFER TO APP. 13
11. ENGINE OIL AND FUEL SYSTEMS PRESERVED FOR 365 DAYS I.A.W ESM ESM TASK 72-00-00-500-001-0. EXPIRY DATE APR 10, 2019.
12. OPEN ACTION ITEMS MUST BE CLOSED BY THE CUSTOMER PRIOR TO INSTALLATION ENGINE ON A/C.

13a. Certifies the items identified above were manufactured in conformity to:		14a <input checked="" type="checkbox"/> 14 CFR 43.9 Return to Service <input type="checkbox"/> 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/Authorization No:	14b. Authorized Signature: [REDACTED]	14c. Approval Certificate No.: [REDACTED]
13d. name (Typed or Printed):	13e. Date (dd/mmm/yyyy):	14d. Name (Typed or Printed): [REDACTED]	14e. Date (dd/mmm/yyyy): 16 APR 2018

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 article. 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 airworthiness authority accepts aircraft engine(s)/propeller(s)/article(s) from the airworthiness authority of the country specified in Block 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.

FAA CRS No.MK1Y325K
EASA APPROVAL No. 145.0029
C.A.A.I-01

Life Limited Parts for: CFM56-5B2/P

Eng s/n: 575212

Customer: [REDACTED]

TSN: 38616.00

CSN: 24996

Cycles remaining:

CFM56-5B2/P : 9086 CFM56-5B4/P : 9086

ENG. WORK RECORD NO.: 2018E628

Description	P/N	S/N	TSN	CSN	Total Cycles				Cycles Limit		Remaining Cycles		Remarks
					5B3/P	5B5/P	5B2/P	5B4/P	5B2/P	5B4/P	5B2/P	5B4/P	
FAN & BOOSTER MODULE	SMDL1/P	21X75212	38616	24996									
FAN DISK	338-001-504-0	BA989279-D	45876	18860	18860	0	0	0	30000	30000	11140	11140	
BOOSTER SPOOL	338-001-906-0	DY913055	0	0	0	0	0	0	30000	30000	30000	30000	
NO.1 & NO.2 BRG. SUPPORT	SMDL2	22X75212	38616	24996									
FAN SHAFT ASSY.	338-010-601-0	DC902481	29306	19998	0	19998	0	0	30000	30000	10002	10002	
HPC ROTOR MODULE	SMDL5/P	31X75212	38616	24996									
HPC FRONT SHAFT	1386M56P03	GWN0MW4D	14417	10914	0	0	4041	6873	20000	20000	9086	9086	
SPOOL C.STG. 1-2	1558M31G07	GWN0N2RM	14417	10914	0	0	4041	6873	20000	20000	9086	9086	
COMP. DISK STG.3	2116M23P01	XAES6944	14417	10914	0	0	4041	6873	20000	20000	9086	9086	
SPOOL C.STG. 4-9	2048M20G03	GWN0MTHW	14417	10914	0	0	4041	6873	20000	20000	9086	9086	
CDP ROT. AIR SEAL	2116M25P01	GFF5FC87	14417	10914	0	0	4041	6873	20000	20000	9086	9086	
HPT ROTOR MODULE	SMDL11/P	52X75212	38616	24996									
HPT FRONT SHAFT	2048M21P03	XAES8246	14417	10914	0	0	4041	6873	20000	20000	9086	9086	
HPT FRONT AIR SEAL	2116M20P02	TMT5CP31	14417	10914	0	0	4041	6873	20000	20000	9086	9086	
HPT DISK	1498M43P07	GWN0MK17	14417	10914	0	0	4041	6873	20000	20000	9086	9086	
HPT REAR SHAFT	1864M90P04	TMT7U389	14417	10914	0	0	4041	6873	20000	20000	9086	9086	
LPT ROTOR MODULE	SMDL13/P	54X75212	38616	24996									
LPT CASE	338-117-455-0	DB675043	38616	24996	0	0	4041	20955	N/L	N/L	N/L	N/L	SB.72-0706 CW
LPT DISK STG.1	336-001-804-0	PC657242	0	0	0	0	0	0	25000	25000	25000	25000	
LPT DISK STG.2	336-001-909-0	PC703907	0	0	0	0	0	0	25000	25000	25000	25000	
LPT DISK STG.3	336-002-006-0	PC665440	0	0	0	0	0	0	25000	25000	25000	25000	
LPT DISK STG.4	336-002-105-0	PC665015	0	0	0	0	0	0	25000	25000	25000	25000	
LPT ROTOR SUPPORT	340-301-702-0	DY287965	0	0	0	0	0	0	25000	25000	25000	25000	SB.72-0814 CW
LPT SHAFT MODULE	SMDL14	55X75212	38616	24996									
LPT SHAFT	338-010-005-0	PC604090	0	0	0	0	0	0	25000	25000	25000	25000	
TURBINE FRAME ASSY	SMDL15/P	56X75212	38616	24996									
FRAME ASSY. LPT	338-171-703-0	LA084672	38616	24996	0	0	4041	20955	29696	29696	4700	4700	*

Remarks: ENGINE WORK RECORD NO. 2018E628 REPAIRED AND TESTED AT ENGINE T.S.N.: 38616 C.S.N.: 24996; LLP'S REPLACED AT THIS SHOP VISIT:
FAN DISK, FAN SHAFT {O/H}; BOOSTER SPOOL & LPT MAJOR MODULE LLP'S {NEW}

* THIS LIMIT IS FOR INSPECTION ONLY

Date: 10 Apr. 2018

•1. Approving Civil Aviation Authority / Country

FAA / UNITED STATES

2

AUTHORIZED RELEASE CERTIFICATE

FAA FORM 8130-3, AIRWORTHINESS APPROVAL TAG

4. Organization Name and Address :

3. Form Tracking Number:

W.O. : R14103112000

5006920680

5. Work Order / Contract / Invoice Number:

6610029953

No. Attachments : 4 each

6. Item	7. Description:	8. Part Number:	9. Quantity:	10. Serial Number:	11. Status/Work:
1	FAN SHAFT	338-010-601-0	1	DC902481	OVERHAULED

12. Remarks

Inspections :Per ATA 72-22-01

Repairs :001, 002, 006, 017 and AD2002-13-03 (Amendment 39-12790, Docket No. 98-ANE-38-AD).

Per : CFMI CFM56-5B Engine Manual No. CFMI-TP.SM.9, Reference 72-22-01 Revision 64, SEP 15/2014

Notes : Records Of Work Performed Are On File At

AD2002-13-03 [Ref. EASA CN2002-390-IMP(B)] c/w this shop visit.

Removed from ESN 577187. LLP TSNH/TSNC:29306/19998.



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 product is considered ready for release to service under EASA Part 145 approval no. EASA 145-479

NAME	ADDRESS	TELEPHONE NUMBER	TYPE OF BUSINESS	NUMBER OF EMPLOYEES	WEEKLY PAYROLL	WEEKLY EXPENSES	WEEKLY PROFIT
John Doe	123 Main Street	555-1234	Restaurant	10	\$10,000	\$2,000	\$8,000
Jane Smith	456 Elm Street	555-2345	Barber Shop	5	\$5,000	\$1,000	\$4,000
Bob Johnson	789 Oak Street	555-3456	Auto Repair Shop	8	\$8,000	\$1,500	\$6,500
Susan Williams	210 Pine Street	555-4567	Clothing Store	6	\$6,000	\$1,200	\$4,800
Mike Brown	321 Cedar Street	555-5678	Hardware Store	7	\$7,000	\$1,400	\$5,600
Emily Davis	432 Birch Street	555-6789	Grocery Store	9	\$9,000	\$1,600	\$7,400
David Wilson	543 Chestnut Street	555-7890	Gas Station	4	\$4,000	\$800	\$3,200
Sarah Lee	654 Locust Street	555-8901	Laundromat	3	\$3,000	\$600	\$2,400
Tommy Green	765 Willow Street	555-9012	Plumbing Service	2	\$2,000	\$400	\$1,600
Anna White	876 Pine Street	555-0123	Bookstore	1	\$1,000	\$300	\$700

14a. <input checked="" type="checkbox"/> FAR 43.9 Return to Service	<input checked="" type="checkbox"/> Other Regulation specified in Block 12
Certificates 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.	
14b. Authorized Signature :	14c. Approval / Certificate No :
14d. Name (Typed or Printed) :	14e. Date (dd/mmm/yyyy): 05 Dec 2014

User / Installer Responsibilities

It is important to understand that the existence of this Document alone does not automatically constitute authority to install the part / component / assembly.

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 airworthiness authority accepts parts/components/assemblies from 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 any aircraft may be flown.

1 国家 Country China		2. 中国民用航空总局 CAAC <input checked="" type="checkbox"/> 符合性 Conformity <input type="checkbox"/> 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. W.O.#: R14103112000-C	
4 单位 Organization						5 工作单/合同单/货单 Work Order/Contract/Invoice 6610029953	
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	
1	FAN SHAFT	338-010-601-0	NOT KNOWN	1	DC902481	OVERHAULED	
13 备注 Remarks Inspections : Per ATA 72-22-01 Repairs : 001, 002, 006, 017 and AD2002-13-03 (Amendment 39-12790, Docket No. 98-ANE-38-AD). Per : CFMI CFM56-5B Engine Manual No. CFMI-TP.SM.9, Reference 72-22-01 Revision 64, SEP 15/2014. Notes : Records Of Work Performed Are On File At [REDACTED] AD2002-13-03[Ref. EASA CN2002-390-IMP(B)] c/w this shop visit. Removed from ESN 577187. LLP TSNH/TSNC:29306/19998. OL 4057							
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）将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 使用过的零件 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 Dec / 05 / 2014		19 中国民航总局授权 Issued by or on behalf of the CAAC F00100394			
17 批准人姓名 (打印的) Name (Printed)							

5006920680

ATTACHMENT 1

WO#: R14103112000

FAN SHAFT
 Engine Model: CFM56-5B
 ATA: 72-22-01

DIM. REP. N°: 5B-2201RI

Revision Date: 04-09-2014

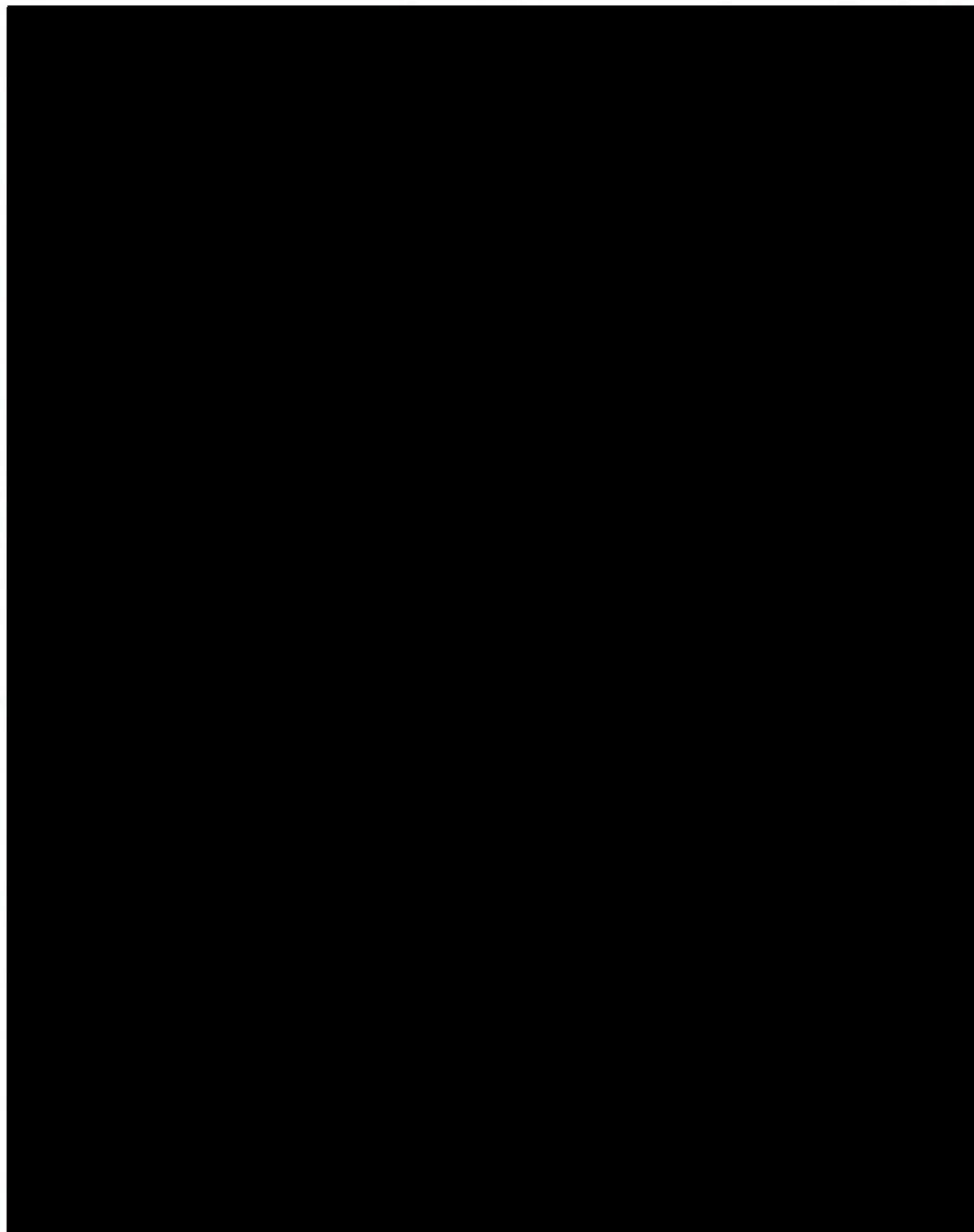
WPS ID#: 5B-2201R

Page 1 of 6

Index	Repair	Serviceable Limits (inches)	Répairable Limits (inches)	Incoming Inspection (inches)	TOOL #	Final Inspection (inches)	TOOL #
Dia. A	009	7.7169 - 7.7177	7.6972 Max	7.7170	1557	7.7170	1557
Dia. C	003	10.0787 - 10.0808	10.0906 Max	10.0790	3535	10.0790	3535
Dia. D	005	9.3289 - 9.3307	9.3090 Max	9.3297	1039	9.3297	1039
Dia. E		3.4646 - 3.4659		3.4649	3535		
Dia. F	006	4.2323 - 4.2337	4.2535 Max	4.2333	1523	4.2328	1523
Dia. U	010	4.9224 - 4.9231	4.9106 Max	4.9226	1438	4.9226	1438
Dia. Y	004	6.3003 - 6.3010	6.2810 Max	6.3006	1509	6.3004	1509
Dia. Z	004	6.3396 - 6.3403	6.3200 Max	6.3397	1509	6.3397	1509
*Dim. L (All Periphery)		0.0965 - 0.1220		N/A	-		
*Dim. L (On third of periphery)		0.0886 Min		N/A	-		
*Dim. M		0.1378 - 0.2028		N/A	-		
*Dim. N		0.2756 - 0.3012	0.3268 (non-consecutive slot only)	N/A	-	N/A	N/A
*Thread P Pitch Dia.		4.5952 - 4.6073		N/A	-		
*Thread P Outer Dia.		4.6241 - 4.6378		4.6355	1438		
*Thread P Inner Dia.		4.5569 - 4.5732		N/A	-		
*Dim. AX		0.425 - 0.441		N/A	-		
Dia. AZ		4.6448 - 4.6457		4.6448	1438		
Dim. AW		0.3937 ~ 0.4154		0.3950	1570		

(*) - Perform the inspection of the items with (*) only if visual inspection or other conditions shows that it is necessary.

Incoming Inspection By: <u>PTI 1076</u> Date: NOV - 6 2014	Final Inspection By: <u>PTI 1338</u> Date: DEC 05 2014
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5006920680

Attachment 3

WO#: R14103112000

FAN SHAFT

Engine Model: CFM56-5B
ATA: 72-22-01

DIM. REP. Nº: 5B-2201RI

Revision Date: 04-09-2014

WPS ID#: 5B-2201R

Page 4 of 6

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RTI
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5006920680

Attachment 4

wo#: R14103112000

FAN SHAFT

Engine Model: CFM56-5B

ATA: 72-22-01

DIM. REP. Nº: 5B-2201R1

Revision Date: 04-09-2014

WPS ID#: 5B-2201R

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TTI
1338

TRANSFER RECORD TAG

SERVICEABLE INFORMATION

Description / Descrizione FAN SHAFT AT FOR CFM56-5B2 ITEM 221	Part Number / Numero Categorico 338-010-601-0	
Certificate Ref. No. / Certificato NA° R14103112000	Q.ty / Q.ta 1	Serial/Batch No. / NA° di Serie/Lotto DC902481
Repair Order P0513316	Owner AZA	
Acceptance Task Stamp / Attestazione Task di accettazione	 444234	

REMOVAL INFORMATION

Part Number	Serial Number	Removal Workorder
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REMOVED FROM

NHA Part Number or Aircraft Type	Position
NHA Serial Number or Aircraft Name	Station

REMOVAL DATE

This copy is to be attached to the UNSERVICEABLE part after REMOVAL

REASON FOR REMOVAL	Completed by
--------------------	--------------

11	12	13	21	22	30	31	32	33	34	35	36	36	99
TBO	AEB APPL	CONV	FLT SQUAWK	MAINT SQUAWK	OTHER REASON	NEW ARRIV	BACK FROM T.P.	NHA RP/OH	STORE LIMIT	STORE FAIL	TROUBLE SHOOT	ROBBED	

STORE INFORMATION

Lable 444234	Track No.	Location APPOGGIO 01	Shelf Life 22.Nov.2064
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Cartellino di movimentazione

Step #1 – Logistica o Produzione	
Data Consegn	Firma Operatore di presa in carico
Step #2 – Produzione o Logistica <input checked="" type="checkbox"/> Reso efficiente ²	
Data Consegn	Firma Operatore di presa in carico/AWB ¹
Step #3 – Logistica o ADL (o Spedizioniere)	
Data Consegn	Firma Operatore di presa in carico

Attesta la consegna della parte della logistica alla produzione

Ala consegna della parte la logistica trattiene la copia azzurra

Attesta la consegna della parte inefficiente della produzione alla logistica

Ala consegna parte Unserviceable la produzione trattiene la copia rosa

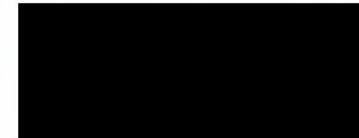
Attesta la consegna della parte dalla logistica all'area di lavoro interna o allo spedizioniere per la spedizione verso il subcontractor

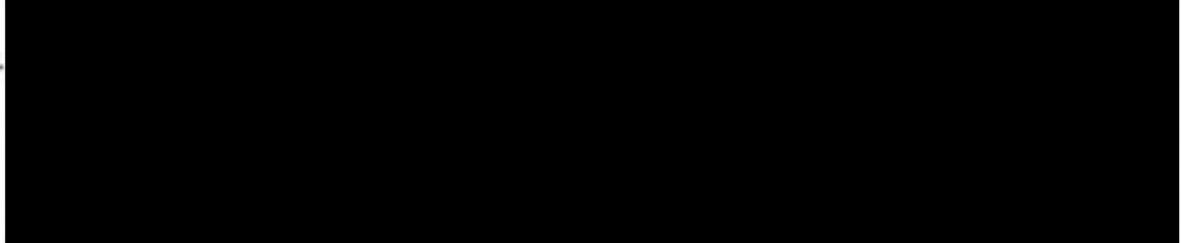
Ala consegna della parte la logistica trattiene la copia gialla

Ad ogni consegna della parte il cedente recupera la firma del ricevente, consegna la parte e trattiene la propria copia del TRT.

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2



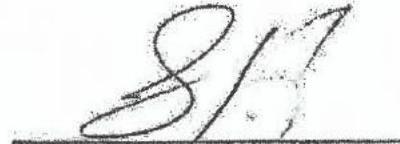


Quality Approved Trace

ESN: 577187

Part	TSN	CSN
Fan Shaft	29306	19998

Signature:



1. Approving Civil Aviation
Authority / Country

FAA / UNITED STATES

2.

AUTHORIZED RELEASE CERTIFICATE

FAA FORM 8130-3, AIRWORTHINESS APPROVAL TAG

3. Form Tracking Number :

W.O. : R14103112000

4. Organization Name and Address:

5. Work Order / Contract / Invoice Number:

6610029953

No. Attachments : 4 each

6. Item	7. Description:	8. Part Number:	9. Quantity:	10. Serial Number:	11. Status/Work:
1	FAN SHAFT	338-010-601-0	1	DC902481	OVERHAULED

12. Remarks

Inspections : Per ATA 72-22-01

Repairs : 001, 002, 006, 017 and AD2002-13-03 (Amendment 39-12790, Docket No. 98-ANE-38-AD).

Per : CFMI CFM56-5B Engine Manual No. CFMI-TP.SM.9, Reference 72-22-01 Revision 64, SEP 15/2014.

Notes : Records Of Work Performed Are On File At

AD2002-13-03 [Ref. EASA CN2002-390-IMP(B)] c/w this shop visit.

Removed from ESN 577187. LLP TSNH/TSNC:29306/19998.

L.L. 30,000

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 product is considered ready for release to service under EASA Part 145 approval no. EASA 145-4791

14a. FAR 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.

14b. Authorized Signature :

14c. Approval / Certificate No. :

14d. Name (Typed or Printed) :

14e. Date (dd/mm/yyy): 05 Dec 2014

User / Installer Responsibilities

It is important to understand that the existence of this Document alone does not automatically constitute authority to install the part / component / assembly.

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 airworthiness authority accepts parts/components/assemblies from 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 any aircraft may be flown.

WO#: R14103112000

FAN SHAFT

Engine Model: CFM56-5B

ATA: 72-22-01

DIM. REP. N°: 5B-2201RI

Revision Date: 04-09-2014

WPS ID#: 5B-2201R

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Dim. #	Repair	Serviceable Limits (inches)	Repairable Limits (inches)	Incoming Inspection (inches)	Tool #	Final Inspection (inches)	Tool #
Dia. A	009	7.7169 - 7.7177	7.6972 Max	7.7170 ^v	1557	7.7170 ^v	1557
Dia. C	003	10.0787 - 10.0808	10.0906 Max	10.0790 ^v	3535	10.0790 ^v	3535
Dia. D	005	9.3289 - 9.3307	9.3090 Max	9.3297 ^v	1039	9.3297 ^v	1039
Dia. E		3.4646 - 3.4659		3.4649 ^v	3535		
Dia. F	006	4.2323 - 4.2337	4.2535 Max	4.2333 ^v	1523	4.2328 ^v	1523
Dia. U	010	4.9224 - 4.9231	4.9106 Max	4.9226 ^v	1438	4.9226 ^v	1438
Dia. Y	004	6.3003 - 6.3010	6.2810 Max	6.3006 ^v	1509	6.3006 ^v	1509
Dia. Z	004	6.3396 - 6.3403	6.3200 Max	6.3397 ^v	1509	6.3397 ^v	1509
*Dim. L (All Periphery)		0.0965 - 0.1220		N/A	—		
*Dim. L (On third of periphery)		0.0886 Min		N/A	—		
*Dim. M		0.1378 - 0.2028		N/A	—		
*Dim. N		0.2756 - 0.3012	0.3288 (non- consecutive slot only)	N/A	—	N/A	N/A
*Thread P Pitch Dia.		4.5952 - 4.6073		N/A	—		
*Thread P Outer Dia.		4.6241 - 4.6378 ^v		4.6355 ^v	1438		
*Thread P Inner Dia.		4.5569 - 4.5732		N/A	—		
*Dim. AX		0.425 - 0.441		N/A	—		
Dia. AZ		4.6448 - 4.6457 ^v		4.6448 ^v	1438		
Dim. AW		0.3937 - 0.4154		0.3950 ^v	4570		

(*) - Perform the inspection of the items with (*) only if visual inspection or other conditions shows that it is necessary.

Incoming Inspection By: <i>PTI</i> <i>1076</i>	Final Inspection By: <i>ATI</i> <i>1076</i>
Date: NOV - 6 2014	Date: DEC 05 2014

Engine s/n 577187
TSN 29,306
CSN 19,998

[REDACTED] certifies that, to the best of its knowledge, one used [REDACTED] engine model CFM56-5B bearing the manufacturer's serial number 577187:

- Was not removed from an aircraft that has been subjected to any extreme heat or other form of extreme stress, e.g. major engine failure, fire, or involved in an incident or accident as defined by the relevant regulating authority.
- Does not have and has not had any PMA parts or NON-TCH repaired parts installed other than those authorized by the engine manufacturer;
- Has not been immersed in salt water or otherwise exposed to corrosive agents outside normal operation; and
- Was not obtained from nor operated by any Government, or any military sources.
- Is not on watch for any known defect

Date	TSN	CSN	Details	Thrust rating used
21-Dec-2004	0	0	Installed onto A/C MSN 2385 (G-EZPG) in new condition during aircraft construction	585/P
28-Dec-2005	2,835	2,010	Removed serviceable from A/C MSN 2385 (G-EZPG) for de-twinning purpose	585/P
19-Feb-2006	2,835	2,010	Installed onto A/C MSN 2420 (G-EZIA) at customer convenience	585/P
15-Nov-2008	12,345	9,510	Removed serviceable from A/C MSN 2420 (G-EZIA) to repatriate engine to titled A/C	585/P
18-Nov-2008	12,345	9,510	Installed onto A/C MSN 2385 (G-EZPG) to repatriate engine to titled A/C	585/P
28-Sep-2014	29,306	19,998	Removed from MSN 2385 (G-EZPG) for LLP expiry shop visit	585/P



CERTIFICATION STATEMENT

Engine Model: **CFM56-5B**
Engine Serial Number: **577187**
Time Since New: **29,306**
Cycles Since New: **19,998**

Date	TSN	CSN	Details	Thrust rating used
21-Dec-2004	0	0	Installed onto A/C MSN 2385 (G-EZPG) in new condition during aircraft construction	5B5/P
28-Dec-2005	2,835	2,010	Removed serviceable from A/C MSN 2385 (G-EZPG) for de-twining purpose	5B5/P
19-Feb-2006	2,835	2,010	Installed onto A/C MSN 2420 (G-EZIA) at customer convenience	5B5/P
15-Nov-2008	12,345	9,510	Removed serviceable from A/C MSN 2420 (G-EZIA) to repatriate engine to tilted A/C	5B6/P
18-Nov-2008	12,345	9,510	Installed onto A/C MSN 2385 (G-EZPG) to repatriate engine to tilted A/C	5B5/P
28-Sep-2014	29,306	19,998	Removed from MSN 2385 (G-EZPG) for LLP expiry shop visit	5B6/P

The Life Limited Parts listed below have been last operated by [REDACTED] and ownership was transferred to [REDACTED] at the time they were removed from the engine. A review of the maintenance records for the engine has been completed and, [REDACTED] certifies that, to the best of its knowledge, the engine:

- was not removed from an aircraft that has been subjected to any extreme heat or other form of extreme stress, e.g. major engine failure, fire, or involved in an incident or accident as defined by the relevant regulating authority;
- did not have any PMA parts or NON-TCH repaired parts installed other than those authorized by the engine manufacturer;
- has not been immersed in salt water or otherwise exposed to corrosive agents outside normal operation; and
- was not obtained from nor operated by any government or military sources.

Part designation	P/N	S/N
Fan Disk	338-001-504-0	BC351708
Booster Spool	338-001-906-0	BC313218
Fan Shaft	338-010-601-0	DC902481
HPC Front Shaft	1386M56P03	GWN091JT
HPC Stg.1/2 Spool	1558M31G04	GWN091PA
HPC Stg.3 Disk	1590M59P01	XAEF2484
HPC Stg.4/9 Spool	1588M89G03	GWN091DH
HPC CDP Seal	1523M35P01	GFF5CA25
HPT Front Shaft	1873M73P01	XAEF0160
HPT FOS	1795M36P02	GWN08P32
HPT Disk	1498M43P06	GWN0922D
HPT Rear Shaft	1864M90P05	TMTTF529
LPT Stg.1 Disk	336-001-804-0	BC359299
LPT Stg.2 Disk	336-001-909-0	BC380199
LPT Stg.3 Disk	336-002-006-0	BC380218
LPT Stg.4 Disk	336-002-105-0	BC359334
LPT Conical Support	338-077-502-0	BC281907
LPT Shaft	338-010-005-0	BC138997

EXECUTED Apr / 30 / 2016

Component-Equipment-List

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ATA	Description	Partno	Serialno	Description	Pos.	Release no. / Label no.	Last-Date	TSN	CSN
	338-002-114-0	BC424695		FAN BLADE STG 1		02049832 / 1136526		29306	19998
	338-002-114-0	BC424696		FAN BLADE STG 1		02049841 / 1136535		29306	19998
	338-002-114-0	BC424697		FAN BLADE STG 1		02049857 / 1136551		29306	19998
	338-002-114-0	BC424698		FAN BLADE STG 1		02049861 / 1136555		29306	19998
	338-002-114-0	BC431217		FAN BLADE STG 1		02049854 / 1136548		29306	19998
	338-002-114-0	BC431218		FAN BLADE STG 1		02049845 / 1136539		29306	19998
	338-002-114-0	BC431219		FAN BLADE STG 1		02049858 / 1136552		29306	19998
	338-002-114-0	BC431221		FAN BLADE STG 1		02049848 / 1136542		29306	19998
	305-364-103-0	MA143756		BEARING-BALL NO.1		02049858 / 1136562		29306	19998
	305-366-204-0	MA43521		BEARING-ROLLER NO.2		02049869 / 1136563		29306	19998
	338-010-601-0	DC902481		SHAFT ASSY-FAN		02049867 / 1136561		29306	19998
				Requirement	Interval	TSR	To go		
				LIFE LIMIT	30000/C	19998/C	10002 / C		
	338-077-913-0	DC088617		FAN FRAME		02049870 / 1136564		29306	19998
	1386M56P03	GWN091JT		SHAFT-CPRSR ROTOR		02049871 / 1136565		29306	19998
				Requirement	Interval	TSR	To go		
				LIFE LIMIT	20000/C	19998/C	2 / C		
	1523M35P01	GPF5CA25		SEAL-ROTATING AIR REAR		02049873 / 1136569		29306	19998
				Requirement	Interval	TSR	To go		
				LIFE LIMIT	20000/C	19998/C	2 / C		
	1558M31G04	GWN091PA		SPOOL ASSY-CPRSR ROTOR STAGES 1 & 2		02049872 / 1136566		29306	19998
				Requirement	Interval	TSR	To go		
				LIFE LIMIT	20000/C	19998/C	2 / C		
	1588M89G03	GWN091DH		SPOOL ASSY-CPRSR ROTOR STAGES 4 - 9		02049874 / 1136568		29306	19998
				Requirement	Interval	TSR	To go		
				LIFE LIMIT	20000/C	19998/C	2 / C		
	1590M59P01	XAEF2484		DISK-STG 3		02049873 / 1136567		29306	19998
				Requirement	Interval	TSR	To go		
				LIFE LIMIT	20000/C	19998/C	2 / C		
	1559M30G11	FBFH1846		CASE ASSY-CPRSR STTR		02049876 / 1136570		29306	19998
	1559M40G03	CDAC3737		COMPRESSOR REAR CASE		02049877 / 1136571		29306	19998
	1784M91G04	FRZB1692		COMBUSTION CASE		02049878 / 1136572		29306	19998

Component-Equipment-List

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P/N: CFM56-5B5P S/N: 577187

Only rotables with 'LL' req., incl. subtrees, with requirement, group by 2 char. of ATA-Chapter

Code - P/N - Interval	Description	Serialnumber	ATA-Chapter/C Position	Req-Position	TSR	To Go	Exp Date
- COMPONENT-TREE (25 rotables)							
72 (25 rotables)	ENGINE						
CFM56-5B5P	CFM INTERNATIONAL ENGINE	577187	72-00	U/S			
338-071-305-0	LPT SHAFT ASSY	55X77187	72-55				
338-010-005-0	SHAFT-LPT	BC138997	72-55				
ALL	LIFE LIMIT						
25000 / C	FLIGHT CYCLES				19998 / C	5002 / C	Undefined
CFM56-5B5PM21	FAN AND BOOSTER	21X77187	72-21				
338-001-504-0	DISK ASSY-FAN	BC351708	72-21				
ALL	LIFE LIMIT						
30000 / C	FLIGHT CYCLES				19998 / C	10002 / C	Undefined
338-001-906-0	SPOOL ASSY-BOOSTER	BC313218	72-21				
ALL	LIFE LIMIT						
30000 / C	FLIGHT CYCLES				19998 / C	10002 / C	Undefined
CFM56-5B5PM22	NO. 1 & 2 BEARING SUPPORT	22X77187	72-22				
338-010-601-0	SHAFT ASSY-FAN	DC902481	72-22				
ALL	LIFE LIMIT						
30000 / C	FLIGHT CYCLES				19998 / C	10002 / C	Undefined
CFM56-5B5PM31	HPC ROTOR	31X77187	72-31				
1386M56P03	SHAFT-CPRSR ROTOR	GWN091JT	72-31				
ALL	LIFE LIMIT						
20000 / C	FLIGHT CYCLES				19998 / C	2 / C	Undefined
1523M35P01	SEAL-ROTATING AIR REAR	GFF5CA25	72-31				
ALL	LIFE LIMIT						
20000 / C	FLIGHT CYCLES				19998 / C	2 / C	Undefined
1558M31G04	SPOOL ASSY-CPRSR ROTOR	GWN091PA	72-31				
ALL	LIFE LIMIT						
20000 / C	FLIGHT CYCLES				19998 / C	2 / C	Undefined
1588M89G03	SPOOL ASSY-CPRSR ROTOR	GWN091DH	72-31				
ALL	LIFE LIMIT						
20000 / C	FLIGHT CYCLES				19998 / C	2 / C	Undefined

AS-BUILT ENGINE DATA SUBMITTAL
ENGINE SERIAL NUMBER: 577187

CONTENTS:

- **CONFIGURATION LISTING**
- **SERVICE BULLETIN STATUS**
- **AIRWORTHINESS DIRECTIVE STATUS**

ENGINE TYPE	CFM56-5 --B5/P SERIES	SHIPPING DATE	2004/12/09
TIME SINCE NEW	000000	REPORT DATE	2004/12/09
CYCLES SINCE NEW	000000		

CONFIGURATION LISTING

JIN	NOMENCLATURE	PART NUMBER	PSN	PTSN	PCSN	LLP	POS	MOMENT WT
21X	FAN AND BOOSTER ASSY	338-070-707-0	21X77187	000000	000000			
21A	FAN ROTOR BLADE STG 1	338-002-114-0	BC379082	000000	000000	001	167590	
21A	FAN ROTOR BLADE STG 1	338-002-114-0	BC416931	000000	000000	002	165200	
21A	FAN ROTOR BLADE STG 1	338-002-114-0	BC416577	000000	000000	003	164370	
21A	FAN ROTOR BLADE STG 1	338-002-114-0	BC424695	000000	000000	004	163530	
21A	FAN ROTOR BLADE STG 1	338-002-114-0	BC416588	000000	000000	005	161660	
21A	FAN ROTOR BLADE STG 1	338-002-114-0	BC424694	000000	000000	006	162510	
21A	FAN ROTOR BLADE STG 1	338-002-114-0	BC415914	000000	000000	007	164030	
21A	FAN ROTOR BLADE STG 1	338-002-114-0	BC412527	000000	000000	008	164750	
21A	FAN ROTOR BLADE STG 1	338-002-114-0	BC378631	000000	000000	009	166210	
21A	FAN ROTOR BLADE STG 1	338-002-114-0	BC421413	000000	000000	010	166560	
21A	FAN ROTOR BLADE STG 1	338-002-114-0	BC412531	000000	000000	011	164910	
21A	FAN ROTOR BLADE STG 1	338-002-114-0	BC412526	000000	000000	012	164260	
21A	FAN ROTOR BLADE STG 1	338-002-114-0	BC424806	000000	000000	013	163040	
21A	FAN ROTOR BLADE STG 1	338-002-114-0	BC416591	000000	000000	014	161240	
21A	FAN ROTOR BLADE STG 1	338-002-114-0	BC412482	000000	000000	015	162020	
21A	FAN ROTOR BLADE STG 1	338-002-114-0	BC412520	000000	000000	016	163910	
21A	FAN ROTOR BLADE STG 1	338-002-114-0	BC431216	000000	000000	017	164560	
21A	FAN ROTOR BLADE STG 1	338-002-114-0	BC379087	000000	000000	018	165580	
21A	FAN ROTOR BLADE STG 1	338-002-114-0	BC378742	000000	000000	019	167510	
21A	FAN ROTOR BLADE STG 1	338-002-114-0	BC431221	000000	000000	020	165370	
21A	FAN ROTOR BLADE STG 1	338-002-114-0	BC415933	000000	000000	021	164360	
21A	FAN ROTOR BLADE STG 1	338-002-114-0	BC416587	000000	000000	022	163620	
21A	FAN ROTOR BLADE STG 1	338-002-114-0	BC416581	000000	000000	023	161670	
21A	FAN ROTOR BLADE STG 1	338-002-114-0	BC413445	000000	000000	024	162330	
21A	FAN ROTOR BLADE STG 1	338-002-114-0	BC372271	000000	000000	025	163980	
21A	FAN ROTOR BLADE STG 1	338-002-114-0	BC431217	000000	000000	026	164700	
21A	FAN ROTOR BLADE STG 1	338-002-114-0	BC412530	000000	000000	027	166100	
21A	FAN ROTOR BLADE STG 1	338-002-114-0	BC378083	000000	000000	028	166700	
21A	FAN ROTOR BLADE STG 1	338-002-114-0	BC424697	000000	000000	029	164900	
21A	FAN ROTOR BLADE STG 1	338-002-114-0	BC431219	000000	000000	030	164250	
21A	FAN ROTOR BLADE STG 1	338-002-114-0	BC424693	000000	000000	031	163110	
21A	FAN ROTOR BLADE STG 1	338-002-114-0	BC418560	000000	000000	032	161420	
21A	FAN ROTOR BLADE STG 1	338-002-114-0	BC424698	000000	000000	033	161970	
21A	FAN ROTOR BLADE STG 1	338-002-114-0	BC372261	000000	000000	034	163030	
21A	FAN ROTOR BLADE STG 1	338-002-114-0	BC372260	000000	000000	035	164480	
21A	FAN ROTOR BLADE STG 1	338-002-114-0	BC378086	000000	000000	036	165520	
211	BOOSTER SPOOL	338-001-906-0	BC313218	000000	000000	*		
213	FAN DISK	338-001-504-0	BC361708	000000	000000	*		
22X	#1 AND #2 BRG SUPPORT ASSY	338-070-803-0	22X77187	000000	000000			
22A	STATIONARY AIR/OIL SEAL	338-063-705-0	MA182444	000000	000000			
221	FAN SHAFT	338-010-601-0	DC902481	000000	000000	*		
222	#1 BRG SLEEVE	301-297-812-0	MA186070	000000	000000			
223	#1 BALL BEARING	305-364-103-0	MA143756	000000	000000			
226	#2 ROLLER BEARING	305-368-204-0	MA143821	000000	000000			
227	#2 BRG RTNG AIR/OIL SEAL	301-298-211-0	MA150976	000000	000000			

[REDACTED] Consignment Purchase Order [REDACTED]

TO:

SHIP TO:

PO #: PS09598

Page: 1

Date: 12/16/2014

Ship Via:

Resale: YES

Resale #: 1-31-1709062-4

Due Date: 12/30/2014.

FOB: CINCINNATI

Vendor #:

Phone: 513-552-3325

Fax: 513-552-3397

Terms: Net 30

ITEM	PN#/DESCRIPTION	CD	SER #	QTY	PRICE EA	EXT PRICE	UNIT
1	338-010-601-0 SHAFT-FAN	OH	DC902481	1	\$0.00	\$0.00	EACH

PO NOTES:

AUTHORIZED SIGNATURE

TOTAL: \$0.00

[REDACTED]

Material Letter Certification Statement and Warranty of Title

September 10th, 2012

[REDACTED]

Subject: Consignment Material

To Whom It may concern:

This document is furnished pursuant to the Sales and Consignment Agreement dated January 3rd, 2003, between [REDACTED] subsequently replaced by [REDACTED]. In accordance with this agreement, CFM has placed certain component inventory ("Consignment Material") under a Sales and Consignment Agreement with [REDACTED] customers that have a General Terms of Agreement with [REDACTED] have previously operated the Consignment Material and Title of the material has been formally and legally transferred back to [REDACTED].

While stored in [REDACTED] facilities, [REDACTED] certifies that the Consignment Material (i) was not obtained from a U.S. or any foreign Government or military source, (ii) has not been subjected to any extreme heat or other form of extreme stress, fire, or involved in an incident or accident as defined by the relevant regulating authority; and (iii) has not been submerged in salt water or otherwise exposed to corrosive agents.

Due to [REDACTED] policies and the Sales and Consignment Agreement, parts that do not meet the requirements listed above are quarantined for customer disposition and are not eligible for consignment.

In addition, [REDACTED] certifies that it received title to such parts during the ordinary course of business under the terms of its General Terms of Agreement with [REDACTED] customers and that the ownership of Consignment Material included in the Sales and Consignment Agreement with [REDACTED] shall pass from [REDACTED] to [REDACTED] and then from [REDACTED] to its third party customer purchasing such material from [REDACTED]. For clarification, such title transfers shall occur at the time of delivery of the Consignment Material to a third party buyer.

[REDACTED]

[REDACTED]

Grand Prairie, TX , April 14, 2016

Subject: Storage Conditions for Fan Shaft (P/N 338-010-601-0, S/N DC902481)

To Whom It May Concern,

The Fan Shaft (P/N 338-010-601-0, S/N DC902481) was received at [REDACTED] on February 4, 2015. This part has since remained in [REDACTED] possession and was properly stored per [REDACTED] Standard Practices.

[REDACTED]