# 337s

U.S. Department of Transportation
Federal Aviation Administration

### **MAJOR REPAIR AND ALTERATION** (Airframe, Powerplant, Propeller, or Appliance)

Form Approved OMB No.2120-0020 11/30/2007	Electronic Tracking Number
For F	AA Use Only

INSTRUCTIONS: Print or type all entries

instructions	s and disposi	tion of this for U.S.C. 46301	m. This report is required (a)).	by	law (49 U.S	i.C. 44701). Fail	ure to report	can res	sult in a civil penalty for
1. Aircra		ity and Registrat N9923Y	ion Mark			Serial No. 21064641			
	Make CESSN	NA	Ay .			Model T210N			Series
2. Own			stration certificate)			Address (As she	•		·
	TOYS	FOR BOYS, IN	IC.			Address 1266 City DELA		TERRAC	State FLORIDA
								untry U	
			3. Fo	r FA	A Use Only	1			
			:						
4.	Туре		5. Uni	t Id	entification	<del></del>	<del></del>		
Repair	Alteration	Unit	n Make			Mod	el		Serial No.
	x	AIRFRAME				(As described in	item 1 abov	re)	
		POWERPLAN	т :						
		PROPELLER							
		APPLIANCE	Type Manufacturer						
			6. Coi	nfo	rmity State	nent			·
A. Agenc	y's Name and	d Address		T	B. Kind of				
	SINTAS SMAGI			Х	U.S. Certifica	<del> </del>			Manufacturer
Address 1	360 FLIGHTLIN	IE BLVD.			Foreign Certi	ficated Mechanic		C. C	ertificate No.
City <u>E</u>	DELAND		State FLORIDA		Certificated R	epair Station		A&P	2689017
Zip <u>3</u>	2724	_Country _US	SA		Certificated M	laintenance Organiz	ation		
hereto inform	have been ration furnish	made in accor ed herein is tr	eration made to the unit(s dance with the requirement the and correct to the bes	ents t of	of Part 43 c my knowled	f the U.S. Federa	described on al Aviation R	the rev	verse or attachments ons and that the
Extended rar 14 CFR Part		Signatu	re/Date of Authorized Inc	livic	lual	much	0		
,			7. Approv	al f	or Return T	o Service			
	Administrator	of the Federa	persons specified below, at Aviation Administration				REJECTE	D	•
BY	FAA Fit. Star	ndards	Manufacturer		Maintenan	ce Organization			oved by Canadian of Transport
	FAA Desig			X		Authorization		Specify)	
Certificate of	or Designation N	10.	Signature/Date of Aytho	rize	d Individual				_
A&P 26890	)17 IA		M		40		1/12/201	2	

FAA Form 337 (10-06)

Weight and balance or operating limitation changes shall be entered in the appropriate aircraft record. An alteration must be compatible with all previous alterations to assure continued conformity with the applicable airworthiness requirements.

(If more space is required, attach addition	nal sheets. Identify with aircraft nationality and registration n	nark and date work completed.)
	USA N9923Y	1/12/2012
	Nationality and Registration Mark	Date
INSTALLED JP INSTRUMENTS EDM-830 INSTALLED JP INSTRUMENTS EGT-701-6	6- CYLINDER KIT I.A.W. STC# SA2586NM 6CR/MFDL KIT I.A.W. STC#SA00432SE	:
BOTH KITS WERE INSTALLED USING JP CONTINENTAL MOTORS SERVICE MANU	INSTRUMENTS INSTALLATION MANUALS, CESSNA MAI JAL, AND AC43-13	NTENANCE MANUAL,
THE SYSTEM WAS TESTED AND FOUND RANGES.	TO OPERATE PROPERLY WITH ALL ENGINE FUNCTION	NS IN THE "NORMAL"
THE INSTRUCTIONS FOR CONTINUED A	IRWORTHYNESS WERE PLACED IN LOG BOOK	
********	************ NOTHING FOLLOWS ***************	****
		• •
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	Additional Sheets Are Attached	
	Additional Sheets Are Attached	

Anited States Of America

Bepartment of Transportation - Nederal Abiation Administration

### Supplemental Type Certificate

Number SA2586NM

This Contiferate issued to J. P. INSTRUMENTS

PO Box 7033 Huntington Beach, CA 92646

certifies that the change in the type design for the following product with the limitations and conditions therefor as specified hereon meets the aircrophiness regainments of Part 3 of the Einil Sociation Begalations, including respective Amendments as specified in the attached Approved Neodol Bist.

- Griginal Product Type Cortificate Number: \* See attached FAA Approved J.P. Instruments
  - Master Eligibility List No. SA2586NM for list

Time confidure and are approximated in the bases for approval shall remain in offert until surrendered, suspended, recorded or a termination date is otherwise established by the Administrator

of the Federal Sociation Administration. Date of application: December 31, 1984

Date of issuance: August 14, 1985



Tale reissard:

Tels amoded: July 13, 1987, November 13, 1992, December 19, 1996, May 15, 1998, June 17, 1999

By direction of the Administrator

Manager, Propulsion Branch

Los Angeles Aircraft Certification Office

This certificate may be transferred in accordance with FAR 21.47.

Part Number

T.C.D.S. (See P. 11 for Series)

Example: Ser juge 5

Cessna 310 (6T\*) 6 = any PN in that column except • items in TIT column T = Requires two instruments = Includes TIT (turbocharged a/c only)

	· Pa	rt Nu	mber	
TCDS	1900	D 11	for Sor	inc

ELIGIBL	E PART	NUMBERS	for	EGT-701
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Note (1) suffix "T" designates twins, two instruments required.

Note (2) suffix " denotes turbocharged engines.

Part number Series

	га	it ildiliper Selle	3				
4	4	6	6	7	8	9	TIT
4 Cylinder with RPM & MAP	4 Cylinder	6 Cylinder with RPM & MAP	6 Cylinder	7 Cylinder	8 Cylinder	9 Cylinder	
EGT-701-( )	EGT-701-( )	EGT-701-( )	EGT-701-( )	EGT-701-( )	EGT-701-( )	EGT-701-( )	
4C R/M	4C	6C R/M	6C	7C	8C `´	9C	
4C0R/M	4C0	6C0 R/M	6C0	7C0	8C0	9C0	
4CA R/M	4CA	6CA R/M	6CA	7CA	8CA	9CA	
4CT R/M	4CT	6CT R/M	6CT	7CT ·	8CT	9CT	•
4CI R/M	4CI	6CI R/M	6CI	7CI	8CI	9CI	
4CF R/M	4CF	6CF R/M	6CF	7CF	8CF	9CF	
4COA R/M	4COA	6COA R/M	6COA	7COA	8COA	9COA	
4COT R/M	4COT	6COT R/M	6COT	7COT	8COT	9COT	•
4COI R/M	4COI	6COI R/M	6COI	7COI	8COI	9CO(	
4COF R/M	4COF	6COF R/M	6COF	7COF	8COF	9COF	
4COAT R/M	4COAT	6COAT R/M	6COAT	7COAT	8COAT	9COAT	•
4COAI R/M	4COAI	6COAI R/M	6COAI	7COAI	8COAI	9COAI	
4COAF R/M	4COAF	6COAF R/M	6COAF	7COAF	8COAF	9COAF	
4COATI R/M	4COATI	6COATI R/M	6COATI	7COATI	8COATI	9COATI	•
4COATF R/M	4COATF	6COATF R/M	6COATF	7COATF	8COATF	9COATF	•
4COTI R/M	4COTI		6COTI	7COTI	8COTI	9COTI	•
4COTF R/M	4COTF	6COTF R/M	6COTF	7COTF	8COTF ·	9COTF	•
4COIT R/M	4COIT	6COIT R/M	6COIT	7COIT	8COIT	9CO!T	•
4COTIF R/M	4COTIF	6COTIF F/M	6COTIF	7007 F	8COTIF	9CC~.₹	•
TOURIE BAN	5CU712	6	5r	70	80000	6C.∽	
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A .CELE	4				-		
4CTi R/M	40.1	50 Tr 1	ů,		c.,	/•	•
20 F 4 W	4.		<i>:</i> '				•
20 K 4 W	•		•				
	:	•					

ELIGIBLE PART NU. ENG. for ERTHAPPY

Note (1) suffix 'T' designates EGT-200 (1) series for twins Note (2) suffix \*\* denotes for turbocharged engines.

(-/		Part number S	eries		
Α	В	С	D	Ε	
4 cylinder	6 cylinder	7 cylinder	8 cylinder	9 cylinder	TIT
EGT-100-( )	EGT-100-( )	EGT-100-( )	EGT-100-( )	EGT-100-( )	
4	6	7	8	9	
4C .	6C	7C	8C	9C	
4C0	6C0	7C0			
4CA	6CA	7CA :			
4CT	6CT	7CT			•
4CI	6CI	7CI .			
4COA	6COA	7COA			
4COT	5COT	7COT			•
4COI	€CO!	7COI			
4COAT	6COAT	7CAT			•
4COAI	6COAI	7CAI			
4COATI	6COATI	7CTI		,	•
4COIT	6COIT				•
4CAT	6CAT				•
4CAI	6CAI				
4CATI	6CATI				•
4CTI	6CTI				•

		17-30,-A, 17-31,-A, 17-31TC,-A,		
27.	Boeing	(STEARMAN) A75L3,75,A75,	A-743	(9), (E)
	Boeing	B75, E75, A75, A75L300,	1	1
		IB75A, E75N1 A75J1, A75N1, B75N1, D75N1	A-743	(7), (C)
28.	Cessna	140	3A43	(4), (A)
29	Cessna	120, 140, with 0-200 Conversion per STC-SA547EA	A-768	(4), (A)
		140A, with 0-200 Conversion per STC-SA547EA	A-5A2	(4), (A)
30.	Cessna	150,A,B,C,D,E,F,G,H,J,K	3A19	(4), (A)
		A150K, 150L, A150L, 150M,		( ), ( )
		A150M, 152, A152		1
31.	Cessna	170. 170A, 170B	A-799	(6), (B)
32.		172.172A.B.C.D.E.F.G.H.	3A12	(6), (B)
-			57.12	(0). (0)
	Cessna	1721,K,L,M,N,P,Q,R,S,T	3A12	(4), (A)
	0000114	11 2131 4 231141 41 , 623 4 654	OATE	(7). (7)
	Cessna	172RG, P172D	3A17	(4), (A)
	0000114		JAI1	(4), (4)
	Cessna	R172E,F,G,H,J,K,175,175A,B,C	3A17	(6), (B)
32	Cessna	177,177A, 177B	A13CE	(4), (A)
<b>5</b> 5.	CCSSIIA	111,1110,1110	AISCE	(4). (^)
	Cessna	177RG	A20CE	(4) (4)
3.4	Cessna	180,180A,B,C,D,E,F,G,H,J,K	5A6	(4), (A)
J4.	Cessila	100, 100A,0,0,0,E,F,G,H,J,A	SAO	(6), (B)
	Cessna	182,183A,B,C,D,E,F,G,H,J,K, 1821, MM POR, S, T, R182,	2:12	(G) (D)
	Cessila	T182, TR182, 182RS, T182T,	3.	(6), (F)
	! Canana	11 02, 18102, 10283, 11321,	!	!
20				
	: Cessna	III		
Jui.		en e		
.u 37.	Cessna	The crise Waz	· · · · · · · · · · · · · · · · · · ·	
37. 38.	Cessna   Cessna			· (e), (e)
37. 38.	Cessna	185 185A.B.C.D.E.A185E.A185F		( (e), (e) (
37. 38. 39.	Cessna Cessna	F		
37. 38. 39.	Cessna   Cessna	185 185A.B.C.D.E.A185E.A185F		, 'j' !,(5) =
37. 38. 39.	Cessna Cessna	185 185A R.C.D.E.A185E A186F		, '', !
37. 38. 39.	Cessna Cessna	F		, 'j' !,(5) =
37. 38. 39.	Cessna   Cessna   Cessna   Cessna	185 185A R.C.D.E.A185E A186F		(4), (5) (5), (5)
37. 38. 39.	Cessna   Cessna   Cessna   Cessna	185 185A B.C.D.E.A185E.A185F   185 185A B.C.D.E.A185E.A185F		(a), (E)
37. 38. 39. 40.	Cessna   Cessna   Cessna   Cessna	185 185A B.C.D.E.A185E.A185F   185 185 185A B.C.D.E.A185E.A185F   185 185 185A B.C.D.E.A185E.A185F   185 185 185 185A B.C.D.E.A185E.A185F   185 185 185 185 185 185 185 185 185 185	204	(a), (E)
37. 38. 39. 40.	Cessna   Cessna   Cessna   Cessna	185 185A.R.C.D.E.A185E.A185F   185 185 185A.R.C.D.E.A185E.A185F   185 185 185 185 185 185 185 185 185 185	2.04	(a), (E)
37. 38. 39. 40.	Cessna   Cessna   Cessna   Cessna	F	A4CE	(1) (1) (1) (1) (1) (1) (1) (1) (1) (1)
37. 38. 39. 40. 41.	Cessna   Cessna   Cessna   Cessna   Cessna   Cessna	185 185A.B.C.D.E.A185E.A185F   185 185A.B.C.D.E.A185E.A185F   185 185C   185 185 185C   185 185 185C   185 1	A4CE	(6*), (B*)
37. 38. 39. 40. 41.	Cessna   C	185 185A.B.C.D.E.A185E.A185F   185 185A.B.C.D.E.A185E.A185F   185 185C   185 185 185 185C   185 185 185C   185 185 185C   185 185 185C   185 185 185 185C   185 185 185C   185 185 185C   185 185 185C   185 185 185 185C	A4CE A16CE	(6°), (B°)
37. 38. 39. 40. 41.	Cessna   C	185 185A.B.C.D.E.A185E.A185F   185 185A.B.C.D.E.A185E.A185F   186 185A.   A186B.T188C   185 185C	A4CE	(4), (3) (5), (5) (6*), (8*)
37. 38. 39. 40. 41.	Cessna   C	185 185A.B.C.D.E.A185E.A185F   185 185A.B.C.D.E.A185E.A185F   186 185A.   A186B.T.188C   185 188C	A4CE A16CE	(6*), (B*)
37. 38. 39. 40. 41.	Cessna   C	185 185A.B.C.D.E.A185E.A185F   185 185A.B.C.D.E.A185E.A185F   186 185A.   A188B.T.188C   185 185A.   A188B.T.T.B.C.D.E.F.G.   U206,U206A.B.C.D.E.F.G.   U206,U206A.B.C.D.E.F.G.   (Conv. Per STC 2123 NM)   207,207A,T207,T207A   210,210A.B.C.D.E.F.   210-5,210-5A,T210F,210G,   T210G,210H,T210H,210J,T210J,	A4CE A16CE	(6*), (B*)
37. 38. 39. 40. 41.	Cessna   C	185 185A.B.C.D.E.A185E.A185F  185 185 185A.B.C.D.E.A185E.A185F  185 185 185 185 185 185 185 185 185 185	A4CE A16CE	(6*), (B*)
37. 38. 39. 40. 41. 41.	Cessna   Cessna   Cessna   Cessna   Cessna   Cessna   Cessna   Cessna   Cessna	185 185A.B.C.D.E.A185E.A185F  185 185A.B.C.D.E.A185E.A185F  185 185C  185 185 185C  185 185 185C  185 185C  185 185C  185 185C  185 185C  185 185C  185 185 185C  185 185C  185 18	A4CE A16CE 3A21	(6*), (B*) (6*), (B*)
37. 38. 39. 40. 41.	Cessna   Cessna   Cessna   Cessna   Cessna   Cessna   Cessna   Cessna   Cessna	185 185A.B.C.D.E.A185E.A185F  185 185A.B.C.D.E.A185E.A185F  12. 11. P2CCA.B.C.D.E.F.G.  1792CA.B.C.D.E.F.G.  1206,U206A.B.C.D.E.F.G.  1206,U206A.B.C.D.E.F.G.  1206,U206A.B.C.D.E.F.G.  1206,U206A.B.C.D.E.F.G.  1206,U206A.B.C.D.E.F.G.  1206,U206A.B.C.D.E.F.G.  1206,U206A.B.C.D.E.F.G.  1206,U206A.B.C.D.E.F.G.  1210G.210A.B.C.D.E.F.  210-5,210-5A.T210F,210G.  1210G.210H,T210H,210J,T210J,  1210K,210K,210L,T24DL,246W,  1210M,210N,P210N/1210N,210R P210R,T210R  310,310A.B.C.D.B.E.G.H. E310H,310J,JK,L,N,P,Q,R	A4CE A16CE	(6*), (B*) (6*), (B*)
37. 38. 39. 40. 41. 41.	Cessna   Cessna   Cessna   Cessna   Cessna   Cessna   Cessna   Cessna   Cessna	185 185A.B.C.D.E.A185E.A185F  185 185A.B.C.D.E.A185E.A185F  125 1120 125B  126 112 126B  127 120GA.B.C.D.E.F.G.  1210A.B.C.D.E.F.  1210A.B.C.D.E.F.  1210A.B.C.D.E.F.  1210G.210H.T210H.210J.T210J.  1210K.210K.210L.T24GL.T24GM.  1210M.210N.P210N.P10N.P10R P210R.T210R  310,310A.B.C.D.E.G.H. E310H.310I.J.K.L.N.P.Q.R.  310J-1.E310J.T310P.Q.R.	A4CE A16CE 3A21	(6*), (B*) (6*), (B*)
37. 38. 39. 40. 41. 41. 44.	Cessna   C	185 185A.B.C.D.E.A185E.A185F   185 185A.B.C.D.E.A185E.A185F   185 185C.D.E.A185E.A185F   185 185C.D.E.A185E.A185F   185 185C.D.E.A185E.A185F   185 185C.D.E.A185E.A185F   185 185C.D.E.A185E.A185F   185 185 185C.D.E.A185E.A185F   185 185 185 185 185 185 185 185 185 185	A4CE A16CE 3A21	(6*), (B*) (6*), (B*) (6*), (B*)
37. 38. 39. 40. 41. 41. 45.	Cessna   C	185 185A.B.C.D.E.A185E.A185F   185 185A.B.C.D.E.A185E.A185F   185 185A.B.C.D.E.A185E.A185F   185 185C   185 185 185C	A4CE A16CE 3A21 3A10	(6°), (B°) (6°), (B°) (6°), (B°) (6°), (BT°)
37. 38. 39. 40. 41. 43. 44.	Cessna   C	185 185A.B.C.D.E.A185E.A185F   185 185A.B.C.D.E.A185E.A185F   185 185A.B.C.D.E.A185E.A185F   185 185C   185	A4CE A16CE 3A21 3A10 3A11 3A25	(6*), (B*) (6*), (B*) (6*), (B*) (6T*), (BT*)
37. 38. 39. 40. 41. 43. 44. 45.	Cessna	185 185A.B.C.D.E.A185E.A185F   185 185A.B.C.D.E.A185E.A185F   185 185A.B.C.D.E.A185E.A185F   185 185C   185	A4CE A16CE 3A21 3A10 3A11 3A25 A2CE	(6*), (B*) (6*), (B*) (6*), (B*) (6*), (BT*) (6T), (BT*) (6T), (BT)
37. 38. 39. 40. 41. 43. 44. 45.	Cessna	185 185A.B.C.D.E.A185E.A185F   185 185A.B.C.D.E.A185E.A185F   185 185A.B.C.D.E.A185E.A185F   185 185C 185 185 185C 185C	3A10 3A11 3A25 A2CE A34CE	(6°), (B°) (6°), (B°) (6°), (B°) (6°), (BT°) (6T), (BT°) (6T), (BT°) (6T), (BT°)
37. 38. 39. 40. 41. 43. 44. 45.	Cessna	185 185A B.C.D.E.A185E.A185F   185 185A B.C.D.E.A185E.A185F   185 185A B.C.D.E.A185E.A185F   185 185C   185 185 185C	A4CE A16CE 3A21 3A10 3A11 3A25 A2CE	(6*), (B*) (6*), (B*) (6*), (B*) (6*), (BT*) (6T), (BT*) (6T), (BT)
37. 38. 39. 40. 41. 43. 44. 45.	Cessna	185 185A.B.C.D.E.A185E.A185F  185 185A.B.C.D.E.A185E.A185F  125 125 125 125 125 125 125 125 125 125	3A10 3A11 3A25 A2CE A34CE	(6°), (B°) (6°), (B°) (6°), (B°) (6°), (B°) (6°), (BT°) (6T), (BT°) (6T), (BT°)
37. 38. 39. 40. 41. 43. 44. 45.	Cessna	185 185A B.C.D.E.A185E.A185F   185 185A B.C.D.E.A185E.A185F   185 185A B.C.D.E.A185E.A185F   185 185C   185 185 185C	3A10 3A11 3A25 A2CE A34CE	(6°), (B°) (6°), (B°) (6°), (B°) (6°), (B°) (6°), (BT°) (6T), (BT°) (6T), (BT) (6T), (BT)

FAA approved AFM Supplement is required with the EGT-701. The EGT-701 is applicable to all EGT-100/200 series. RPM and MAP applicable to the PW EGT-701, 4 and 6 cylinder engines only. Revision 14

FAA approved AFM Supplement is required with the EGT-701. The EGT-701 is applicable to all EGT-100/200 series. RPM and MAP applicable to the P\N EGT-701, 4 and 6 cylinder engines only. Revision 14

Bepertment of Changaristian—Federal Austrian Administration

### Supplemental Tope Certificate

Number SA00432SE

J. P. Instruments P.O. Box 7033

Huntington Beach, CA 92646

certifies that the change in the type design for the following product with the limitations and conditions therefor as specified heroon meets the airporthiness requirements of Part \* of the \* Regulations.

\*See attached FAA Approved Model List (AML)

No. SA00432SE for a list of approved airplane models and applicable airworthiness regulations.

Description of the Type Design Change: Fuel flow transducer installed in accordance with J.P. Instruments (JPI) Fuel Flow Installation Manual, Report No. 503, Revision B, dated March 14, 1997, and manufactured in accordance with JPI Drawing List Report No. 500 Revision B, dated March 14, 1997.

Note: This STC requires the installation of either.

- 1. JPI Fuel flow option with the EGT-701 temperature indicating system per STC SA2586NM; or
- 2. JPI FS-450 fuel flow indicating system per STC SA00861SE.

Smitations and Bonditions: Approval of this change in type design applies to the aircraft models listed on the AML only. This approval should not be extended to other aircraft of these models on which other previously approved modifications are incorporated unless it is determined that the relationship between this change and any of those other previously approved modifications, including changes in type design, will introduce no adverse effect upon the airworthiness of that aircraft. A copy of this certificatio, and FAA A; proved Model List (AML) No. SA00432SE must be maintained as part of the permanent records for the modified aircraft.

If the holder agrees to permit another person to use this certificate to after the product, the holder shall give the other person written evidence of that permission.

The and finite and the supporting data which is the buris for approval shall remain in effect until and the first the state of the

From Section Sidministration

January 3, 1997

Lais of issueroe.

May 2, 1997

December 18, 2000



Any attention of this cartificate is punishable by a fine of not exceeding \$1,000, or imprisonment not exceeding 3 years, or both,

This certificate may be transferred in accordance with FAR 21.47.

Subject: Permission to use STC. To Whom It May Concern:

J.P. Instruments holder of STC SA00432SE and STC SA00861SE grants to the purchaser of the EDM-700 series (PN EGT-701) or the (FS-450) PN 450000 Series AUEL FLOW INSTALLATION permission to use the STC/SA00432SE, or SA00861SE

Page 1 of 9

### J.P.INSTURMENTS FAA APPROVED MODEL LIST (AML) FOR:

- 1 INSTALLATION OF THE EGT 701 SERIES FUEL FLOW TRANSDUCER NO SA00432SE
- 2- INSTALLATION OF THE (FS-450) 450000 SRIES STC SA 00861SE

<b>FUEL</b>	FLOW	INSTRUMENT	and TRANSDUCER

_		FUEL FLOW INSTRUMENT and TRANSD	UCER		
38	Bellanca	17-30A, 17-31, -A,	1A3	FAR 23	2/9/04
39	Bellanca	17-31ATC	1A3	FAR 23	2/9/04
40.	Boeing Stearman	75, A75, E75, A75L300, A75, B75, A75N1, A75J1	A-743	CAR 4a	12/18/09
41	Boeing (Stearman	A75L3 IB75A, E75N1, B75N1, D75N1	A-743	CAR 4a	7/6/09
42.	Cessna	120, 140,	A-768	CAR 3	12/18/00
43	Cessna	140A	5A2	CAR 3	12/18/00
44	Cessna	150, 150A, B, C, D, E, F, G, H, J, K, L, M, A150K, A150L, A150M, 152, A152	3A19	CAR 3	4/9/02
45	Cessna	170, 170A, B	A-799	CAR 3	12/18/09
46.	Cessna	172, 172A, B, C, D, E, F, G, H,	3A12	CAR 3	12/18/09
47	Cessna Cessna	172 I, K, L, M, N, P, Q	3A12 3A12	FAR 23	12/18/09
48	Cessna	1728	3A12	FAR 23	1/27/03
49	Cessna	172RG, R172E, F, G, H, J, K, 175, 175A, B, C, P172D	3A17	CAR 3	12/18/09
50	Cessna	177, 177A, 177B	A13CE	FAR 23	12/18/09
51	Cessna	177RG	A20CE	FAR 23	12/18/09
52	Cessna	180, 180A, B, C, D, E, F, G, H, J, K	5A6	CAR 3	12/18/09
53	Cessna	182, 182A , B, C, D, E, F, G, H, J, K, L, M, N, P, Q, R	3A13	CAR 3	12/18/09
54	Cessna	182T, T182T	3A13	CAR 3	12/18/00
_55	Cessna	182 Series, Air Planes Corp.	3A13	CAR3	12/18/09
_56.	Cessna	182S	3A13	FAR 23	12/18/09
57	Cessna	R182, T182, ŤR182	3A13	CAR 3	12/18/09
58	Cessna	185, 185A, B, C, D, E, A185E, A185F	3A24	CAR 3	12/18/09
59 60	Cessna	188, 188A, 188B, A188, A188A, A188B, T188C	A9CE	FAR 21	12/18/09
61	Cessna Cessna	195, -A, -B 206, P206, P206A, B, C, D, E, TP206A, B, C, D, E, U206, U206A, B, C, D, E, F, G, TU206A, B, C, D, E, F, G	A-790 A4CE	CAR 3	12/18/09
62	Cessna	206H	A4CE	CAR 3	12/18/00
63	Çessna	T206H	A4CE	FAR 23	12/18/09
64.	Cessna	207, 207A, T207, T207A	A16CE	FAR 23	12/18/09
65.	Cessna	210, 210A, B, C, D, E, F 210-5, 210-54, T210F, T10G, T210G, 210H, T210H, 210J, T210J, T210K, 210K, 210L, T210L, 210M, T210M, 210N, P210M, T210N, 210R, 210R, T210R	3A21	FAR 23	12/18/09
66	Cessna	T303	A34CE	FAR 23	1/27/03
67.	Cessna	310, 310A, B, C, D, E, F, G, H, E310H, E310J, 310I, J, K, L, N, P, Q, R 310J-1, T310P, Q, R, T310Q, 310R, T310R	3A10	CAR 3	12/18/09
68.	Cessna	320, A, B, C, D, E, F, 320-1, 335, 340, 340A	3A25	CAR 3	12/18/09
69	Cessna	336	A2CE	CAR 3	12/18/09
70.	Cessna	337, 337A, B, C, D, E, F, G, H, T337B, C, D, E, F, G, H, M337B, P337H, T337H-SP	A6CE	CAR 3	12/18/09
71	Cessna	401, 401A, B, 402, 402A, B, C, 411, 411A, 414, 414A, 421, 421A 421B, 421C	A7CE	CAR 3	12/18/09
72	Cessna	404	A25CE	FAR 23	2/9/04
73.	Cessna (Columbia)	LC41-550FG)	A00003 SE	FAR-23	7/6/09
74	Chaparral Motors (Great Lakes)	27-1A-1, -2	A18EA	AERO BULL 7-A FAR 23	7/6/09
75	Cirrus	SR-20	A00009 CH	FAR 23	12/18/00
76.	Cirrus	SR-22 ·	A00009 CH	FAR 23	1/27/03
77.	Commander (Gulfstream America)	112, B, TC, TCA, 114, A, B, TC	A12S0	FAR 23	12/18/09
78.	Consolidated		1A13	CAR 3	7/6/09

### J.P.INSTURMENTS FAA APPROVED MODEL LIST (AML) FOR:

- INSTALLATION OF THE EGT 701 SERIES FUEL FLOW TRANSDUCER NO SA00432SE
- 2- INSTALLATION OF THE (FS-450) 450000 SRIES STC SA 00861SE

### FUEL FLOW INSTRUMENT and TRANSDUCER

		TUEL FLOW INSTRUMENT and TRANSL	OCER		
	Aeronautical (LanShe)	LAKE 250			
79.	De Havilland	DHC-2 Mk. I	A806	CAR 3	7/6/09
80	Enstrom Helicopter	F-28A	H1CE	CAR 6	7/6/09
81	EXTRA FLUGZEUGBAU	EA-300, S. L. EA-300/200	A67EU	FAR 21.29 FAR 23	12/18/09
82.	EXTRA FLUGZEUGBAU	EA-400 ·	A43CE	FAR 23	4/9/02
83	GENERAL AVIA	F20	A38EU	CAR 3	12/18/09
84	GENERAL AVIA	F22B F22C	A75EU	FAR 23	12/18/09
85	Grumman (Dennis Buehn)	HU-16C	A23NM	FAR 21.25	1/27/03
86.	Grumman	G-44, G44A,	A-734	CAR 4A	11/30/05
87.	Helio (Alliance Aircraft)	H-295, HT-295, H-395	1A8	CAR 3	1/27/03
88.	Helio (Alliance Aircraft)	H-3918	1A8	CAR 3	2/9/04
89	Helio (Alliance Aircraft)	H-391, H-800	1A8	CAR 3	11/30/05
90.	Hughes Helicopter (Schweizer)	269A, 269A-1, 269B, 269C	4H12	CAR 6	7/6/09
91.	Jobmasler Company	DGA-15P (Army UC-70, Navy GH-1, GH-2, GH-3, NH-1)	A-717	CAR 4a	12/18/09
92	Lancair	LC40-550FG	A00003 SE	FAR-23	12/18/00
93.	LanShe Aerospace LLC. (Micco)	MAC-145B	3A1	FAR23	2/9/04
94	Maule	MX-7-180, A, B MXT-7-180, A, B	3A23	CAR 3	12/18/09
95	Maule	MXT-7-160	3A23	CAR 3	1/27/03
96	Maule	M-7-260	3A23	CAR 3	12/18/09
97	Maule	M-7-260C, MT-7-260,	3A23	CAR 3	4/9/02
98.	Maule	M-4-210, C, S, T, M-5-210C	3A23	CAR 3	12/18/09
99	Maule	M-5-180C, MX-7-180C, MX-7-235, -235C; M-4-220	3A23_	CAR 3	7/6/09
10	Maule	M-5-200	3A23	CAR 3	2/9/04
10	Maule Maule	M-5-235C M-4-220C	3A23	CAR 3	12/18/09
10	Maule	M-4-220C M-4-220S,T, M5-235,	3A23 3A23	CAR 3	12/18/00
10	Maule	M-6-235, MX-7-180AC	3A23	CAR 3	4-19- 2002
10	Maule	M-7-235A, B, C, MT-7-235	3A23	CAR 3	4/9/02
10	Prop-Jet inc. (Meyers)	200B, C, D	3A18	CAR 3	4/9/02
10	Micco Aircraft Co.	MAC-145A,B	3A1	CAR 4a	7/6/09
10	Moravan (Zlin)	Z 143 L	A76EU	FAR 23	4/9/02
10	Moravan (Zlin)	Z 242 L	A76EU	FAR 23	11/30/05
111	Revo Inc. LAKE	LA-4, LA-4-200 Lake Model -250	1A13	CAR 3 FAR 23	12/18/09
11	Mooney	M20A, B, C, D, E, F,G, J, K, M, R	2A3	CAR 3	12/18/09
11	Mooney	M20S	2A3	CAR3	4/9/02
111	Mooney	M20L M22	2A3	CAR 3	11/30/05
111	Mooney		A6SW	CAR 3	12/18/09
11	Piper	PA-12, -12S	A-780	CAR 3	4/9/02

US Department of Transportation

COMPUTER GENERATED FAA FORM 337 (12-88)

# MAJOR REPAIR AND ALTERATION (Airframe, Powerplant, Propeller, or Appliance)

Form Approved OMB No. 2120-0020

For FAA Use Only

Federal Adminis	Aviation stration		()		aine, Fow	oi pie		Тороно	,, or <i>r</i>	יאף		Office Iden	tification.			
disnos	ition of	this for	rm. This rep	ort is re	tries. See FAR equired by law ( Act of 1958).	43.9, F 49 U.S.	AR 4 .C. 14	3 Appendix E 21). Failure t	3, and AC o report c	43.9 an res	-1 (or subsequer sult in a civil pena	nt revision there	of) for instr d \$1,000 fo	uctions and r each such		
			Make	C	ESSNA				Model	T21	10N					
1. Air	craft	Ī	Serial No.	:	21064641			Nationality and Registration Mark N9923Y								
2. Ow	ner		Name (As sho 9923Y IN	own on re	egistration certificate)			Address (As shown on registration certificate) 3511 SILVERSIDE RD ST 105 WILMINGTON, DE 19810-4902								
							3.	For FAA Us	e Only							
	4. Unit Identification 5. Type															
Unit Make Model Serial No.												Repair	Alteration			
AIF	RFRAM	E				(As	descr	lbed in Item	1 above)					XXX		
POW	ERPLA	NT														
PRO	PELLE	ER														
API	PLIANC		уре													
			Manufacturer			·										
							6. C	onformity S	tatement							
A. A	gency's	s Nam	e and Addre	ess ———			B. K	ind of Agend	у			C. Certificate	No.			
11124	47 RE	INHA	LAND ARDT COL	LEG	E PARKWAY	,	XX	XX U. S. Certificated Mechanic								
WAI	LESK	A, GA	A. 30183					Foreign Cer	tificated N	lecha	anic	256295713A&P				
								Certificated	Repair St	ation						
								Manufacture	er 							
r	nade in	accor		he req	uirements of Par						escribed on the re ions and that the					
											<u> </u>					
Date		N	OVEMBE	R 09,	2005		Signa	ature of Auth	orized Inc	dividu	ual .		,			
						7.	Appr	val for Retu	rn To Ser	vice						
Pursu	ant to t	he aut	hority given	person and is	s specified belo	w, the t	unit ide	entified in iter	n 4 was in	spect	ted in the manne	r prescribed by t	he Adminis	trator of the		
<b></b>	, ,	AA Flt	. Standards		Manufacturer	хх	Insp	ection Author	rization		OTHER (Specif	y)				
BY	F.	AA De	signee		Repair Station			son Approved ada Airworthi								
			r Rejection 9, 2005		Certificate or Designation No 256295713 I		Sign	nature of Auth	orized Ind	lividu	al A					

Weight and balance or operating limitations changes shall be entered in the appropriate aircraft record. An alteration must be compatible with all previous alterations to assure continued conformity with the applicable airworthiness requirements.

8. DESCRIPTION OF WORK ACCOMPLISHED (If more space is required, attach additional sheets. Identify with aircraft nationality and registration mark and date work completed.)

N9923Y

CESSNA T210N

SERIAL NUMBER 21064641

DATE: 11/09/2005

INSTALLED JPI FS-450 FUEL FLOW INDICATING SYSTEM IN ACCORDANCE WITH JPI INSTALLATION MANUAL FS-450, REPORT NO. 400, REVISION A DATED 08/09/2002. THIS INSTALLATION WAS ACCOMPLISHED IN ACCORDANCE WITH J.P. INSTRUMENTS STC, SA00861SE.

INSTALLED FUEL FLOW TRANSDUCER IN ACCORDANCE WITH J.P. INSTRUMENTS FUEL FLOW INSTALLATION MANUAL, REPORT NO 503 REVISION B, DATED 03-17-97. THIS INSTALLATION WAS ACCOMPLISHED IAW J.P. INSTRUMENTS STC, SA00432SE.

THE AIRCRAFT FLIGHT MANUAL, WEIGHT AND BALANCE, AIRCRAFT LOGS, AND EQUIPMENT LIST WERE UPDATED.

DADDITIONAL SHEETS ARE ATTACHED

U.S Department of Transportation Federal Aviation

### **MAJOR REPAIR AND ALTERATION** (Airframe, Powerplant, Propeller, or Appliance)

Form Approved ... OMB No. 2120-0020

For FAA Use Only
Office Identification SNOS

and dispositi	ONS: Print or type a on of this form. This h violation (Section 9	report is required !	y law (49 t	43 Ap J.S.C.	opendix B, and A0 1421). Failure to	43.9-1 (o report can	r subsequent revis result in a civil pe	ion thereof) for instruently not to exceed \$	uctions 1,000					
	Make CESSNA					Model T210N								
1. Aircraft	Serial No. 21064641		-	-		Nationality and Registration Mark N9923Y								
2. Owner	Name (As shown MATTHEW H	on registration cer IANNA	tificate)	_	Address (As shown on registration certificate) 843 CR 1110 BRASHEAR, TX 75420									
	<del></del>			3	For FAA Use Only									
				4	. Unit Identificat	noi			5. Type					
Unrt	Ma	ke			Model	·	Ser	ial No.	Repair	Alteration				
AIRFRAME	~~~~	~~~~~	(As d	escril	bed in item 1 a	bove)~~		~~~~		Х				
POWERPLANT					;* "				·					
PROPELLER	· · · · · - ·													
APPLIANCE	Туре				•									
	Manufacturer													
				T	Conformity St	tement		1						
	me and Address			_	ind of Agency U.S. Certificated	Machania	<del></del>	C. Certificate No.						
BYRON C. \ GREGG AIR	CRAFT SERVIC	CES. INC.		H	Foreign Certifica			A&P2021731						
RT. 3, EAS1	TEXAS REGIO		Т		Certificated Repa	air Station								
LONGVIEW					Manufacturer									
have bee		e with the requirem	ents of Par					or attachments here at the information furr		.1				
Date 9-19-03					Signature of Aut BYRON C.		150	in Ca	Ille	·				
				7. Ap	proval for Return									
	ne authority given per of the Federal Aviation		w, the unit	identif	ied in item 4 was			scribed by the						
l In	AA Fit Standards spector	Manufacture	er,	Х	Inspection Author	rization		Other (Specify)						
BY F	A Designee	Repair Stati	, où		Person Approved Canada Airworth				<u>*</u>	· · · · · · · · · · · · · · · · · · ·				
Date of Approva 9-22-03	or Rejection	Certificate or Designation No. IA2021731	÷ · -		Signature of Aut BYRON C. V			jin C.C.	Will	·				

Weight and balance or operating limitation changes shall be entered in the appropriate aircraft record. An alteration must be compatible with all previous alterations to assure continued conformity with the applicable airworthiness requirements.

8. Description of Work A	ccomplished		
(If more space is require	ed, attach additional sheets.	Identify with aircraft nationality and registration mark	and date work completed.)
N9923Y	9-19-03	TTA: 3408.4	
820200, REV. B. CONTIN	UING AIRWORTHINESS A HOUR INSPECTION GUIDE	CUUM SYSTEM IN ACCORDANCE WITH STC4626 S DIRECTED BY AERO SAFE CORPORATION GUA . WEIGHT AND BALANCE CHANGE AS NOTED IN	ARDIAN I STANDBY VACUUM
		END	
A Literature	: : : : : : : : : : : : : : : : : : :		
		Additional Sheets Are Attached	•

2					1	Form App	roved 2120-0020	
US Dorás Rosa	MAJOR REPA				}		or FAA Use C	Inly
of Itonsportation	(Airframe, Powerpla	ant, Pr	opeller, or Ap	pliance	<del>)</del> )	Office Ide		/illy
Fêderal Avlatio			·····			\$0-F	SDO-N	5 1100
INSTRUCTI and disposition for each sug	ONS: Print or ype all entries. See FAI lon of this to fall This report is require pyiolation (section 901 Federal Avia	d by law	(49 U.S.C. 1421). Fa	ind AC 43 illure to re	.9-1 (or subseque port can result in	nt revision a civil pena	thereof) for ir alty not to exc	eed \$1,000
	Make Oessna		-	Model				
1. Airgraft	Serial 196. 21064641		<u> </u>					
	Name (As shown on registration ce	ertificate	)	Address	(As shown on re	gistration (	certificate)	
2. Owner	Armstrong Ford, I	nc.	•	1	Box 1328 Hickory, NO	28603		
			3. For FAA Use Or	niy				
			4. Unit Identificati	ion.			E Time	
	T	Τ —	4. Unit identificati	on	1		5. Type	
Unit	Make		Model		. Serial N	lo.	Repair	Alteration
AIRFRAME		'As desc	ribed in Item 1 abov	ve)		^		х
POWERPLANT								
PROPELLER								
	Туре							
APPLIANCE	Manufacturer	-						
		6.	Conformity Stater	nent				
A. Agency's N	ame and Address		B. Kind of Agency	/		C. Cert	ificate No.	
Causey	Aviation Service, Inc.		U.S. Certificate			_		
	ithwood Road		Foreign Certific			- ETATO	CR750D	
Liberty	, NC 27298		X Certificated Rep Manufacturer	pair Station	1		מטכואג	
have beer	nat the repair and/or alteration made to n made in accordance with the requi therein is true and correct to the bes	rements	it(s) identified in iter of Part 43 of the U.S	m 4 above S. Federa	and described or I Aviation Regula	the revers tions and t	e or attachme hat the inform	nts hereto nation
Date			Signature of Author	orized Ind	ividual		<u> </u>	
11-06	97		Waen	~e (	Bine	Ceny	H	
		7. App	oroval for Return To	Service			(   ,	

Inspection Authorization

Person Approved by Transport Canada Airworthiness Group

Signature of Authorized Individual

Other (Specify)

FAA Form 337 (12-88)

BY

FAA FIt. Standards Inspector

FAA Designee

Date of Approval or Rejection

11-06-97

Manufacturer

Repair Station

Certificate or Designation No. EWCR750D

Х

Weight and balance or operating limitation changes shall be entered in the appropriate aircraft record. An alteration must be compatible with all previous alterations to assure continued conformity with the applicable airworthiness requirements.

3. Des	scription of Work Accomplished more space is required, attach additional sheets. Identify with aircraft nationality and registration mark and date work completed.)
1.	Removed WX-10Aweather mapping system, consisting of an antenna, processor, display, and associated wiring.
2.	Installed BFG WX-950 weather mapping, system consisting of an antenna, processor/display, and associated wiring.
3.	Installation and wiring were done in accordance with manufacturers instructions, and AC43.13-1A chapter 11 section 2,5,7 and AC43.13-2A chapter 2. Antenna was mounted in accordance with manufacturers instructions and AC43.13-1A chapter 15 section 6 and AC43.13-2A chapter 3. Weight and balance were updated.
	END
	The second secon
	☐ Additional Sheets Are Attached



# MAJOR REPAIR AND ALTERATION (Airframe, Powerplant, Propeller, or Appliance)

Form Approved OMB No. 2120-0020

For FAA Use Only

SO-FSDO-05 W

INSTRUCTIONS: Print or type all entries. See FAR 43.9, FAR 43 Appendix B, and AC 43.9-1 (or subsequent revision thereof) for instructions and disposition of this form. This report is required by law (49 U.S.C. 1421). Failure to report can result in a civil penalty not to exceed \$1,000 for each such violation (Section 901 Federal Aviation Act of 1958).

tor e	each suc	n violation (Se	ction	i 901 Federal Aviat	ion Act	01.15	958).								
		Make Ce	ssr	na				Model	T210N						
1. Air	craft	Serial No.	106	54641				Nationali	ity and Registration		N9923Y				
				on registration cer	tificate	)									
2. Ow	ner 2	•		Ford Inc.			Address (As shown on registration certificate)  Box 1328								
									Hickory, N	C 286	03				
						3. F	or FAA Use O	nly	<del></del>						
				<u> </u>	-	` -		•			•				
				·		4. L	Init Identificat	ion _			5. Type				
ι	Jnit		Ma	ke			Model	-	Serial No.		. Repair	Alteration			
AIRFR.	AME	~		(/	As desc	ribed	l in Item 1 abo	ve) vivo		·	· · ·	X			
POWE	RPLANT			-		- •				_					
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APPLI	ANCE	Type Manufacture	r												
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A. Ay	elicy 5 IV	anie and Addi	css			D. 1	U.S. Certificate	•	<del></del> -	C. Certi	iicate No.				
	Atla	ntic Ae	ro.	Inc.			Foreign Certifi			-					
		Airpor				Certificated Repair Station					R752D				
		_		_	_		Manufacturer								
ı	nave beer	n made in acco	ordar	r alteration made to nce with the requir correct to the best	ements	of Pa	art 43 of the U	m 4 above .S. Federal	and described on the Aviation Regulation	ne reverse ons and th	or attachment at the inform	nts hereto ation			
Date						Sigi	nature of Auth	orized Ind	dual =	11:	-(1)				
	Apr	il 18,	199	97				chr	<i>istopher M</i>	. Fri	edle				
					7. Ap	prova	al for Return T	o Service	_						
Pur: Adn	suant to ninistrato	the authority r of the Federa	giver al Avi	n persons specifie iation Administrati	d belov on and	v, the	unit identifie	ed in item ED 🗆 F	4 was inspected in	the man	ner prescribe	ed by the			
		FIt. Standards ector		Manufacturer		Insp	ection Authoriz	zation	Other (Specify)						
BY	FAA	Designee	x	Repair Station		Pers Cana	on Approved bada Airworthin	y Transpor ess Group	ŧ.						
Date o	f Approv	al or Rejection		Certificate or Designation No.		Sign	ature of Auth	orized Indi	vidual	<i>f</i> =	$\Omega_{a}$				
Ap	ril 1	8, 1997		EWGR	752D			Chr	staple.	Wee	lle				

Weight and balance or operating limitation changes shall be entered in the appropriate aircraft record. An alteration must be compatible with all previous alterations to assure continued conformity with the applicable airworthiness requirements.

8.	Description of Work Accomplished		
	(If more space is required, attach additional sheets. Identii	y with aircraft nationality and registration	mark and date work completed.)

Installed the following:

1 ea. Telex PC 4 Intercom System.

The intercom was mounted in the Co-Pilot's panel, and the existing Pilot's and Co-Pilot's mic and phone jacks were replaced. Two rear jacks were installed in the side panels for the middle two seats.

All work was performed per the manufacturer's installation manuals and in compliance with AC43.13-1A.

The Aircraft Weight and Balance and equipment list was revised, and a log book entry was made. The aircraft and its equipment were ramp checked and found to function properly without interference to flight controls or other on board equipment.

THE END\_\_\_\_

☐ Additional Sheets Are Attached

### os Department of Fransportation Federal Aviation Administration

### **MAJOR REPAIR AND ALTERATION** (Airframe, Powerplant, Propeller, or Appliance)

Form Approved
OMB No. 2120-0020
For EAA Hee Only

Office Identification

INSTRUCTIONS: Print or type all entries. See FAR 43.9, FAR 43 Appendix B, and AC 43.9-1 (or subsequent revision thereof) for instructions

and dispo for each s	sition of this form uch violation (Se	. This ction	s report is required 1901 Federal Aviat	by la	w (49 ct of	19	.S.C. 1421). Fa  58).	ilure to re	por	t can result in a	civil penal	ty not to exce	ed \$1,000		
	Make						-	Model							
	Cess	na						T	21	ON					
I. Aircraft	Serial No.							National	ity a	and Registratio	n Mark	-			
	2106	464	11			USA N9923Y									
	Name (As she	own	on registration cer	tifica	te)										
	Arms	tro	ong Ford			P.O. Box 328									
2. Owner															
						Hickory, NC 28601									
•							or FAA Use O								
	The	data	/ alteration / rep	ir id	entifi	icg	herein com	olies with	1 th	e applicable			- 1		
	airw	orthi	ness requirement	sang	djis 2	<b>*</b>	broved only i	or the abo	ovc ·	described	7				
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Weight and balance or operating limitation changes shall be entered in the appropriate aircraft record. An alteration must be compatible with all previous alterations to assure continued conformity with the applicable airworthiness requirements.

8. Description of Work Accomplished

(If more space is required, attach additional sheets. Identify with aircraft nationality and registration mark and date work completed.)

Installed the following:

Bendix/King KLN89B GPS, s/n Pl451 in the avionics panel beneath the number one Nav receiver. Bendix/King KA-92 GPS Antenna, s/n 04476 on top of the fuselage over the passenger seat area. MSI Avionics Model 97-10364A Nav Switching Box, s/n 3148 in the avionics panel beneath the KLN89B GPS. The KLN89B GPS was connected through the Model 97-10364A Nav Switching Box to the existing King KI-525A HSI to be shared with the Number One Nav Receiver. The Nav Switching Box has the following Nav Source Annunciators: Nav-1 (Green), GPS (Blue) and the following GPS Status Annunciators: WPT (Amber), MSG (Amber), ACTV (Green), ARM (White), WARN (Red).

The Autopilot will be driven from either Nav-1 or GPS along with the HSI. When the HSI is being driven by the GPS and an ILS Frequency is selected on the Nav-1 receiver, the Nav 1 Annunciator will light and the Nav-1 will automatically drive the HSI. The Bendix/King KLN89B GPS and KA-92 GPS Antenna have been approved for IFR Enroute and non-precision approach operations under STC Number SA00244WI-D.

Installation of the above equipment was made in accordance with the manufacturer's installation instructions and wiring diagrams and AC43.13-2A. The above equipment was functional tested and found to meet the requirements of FAR 23.1301.

A flight test was conducted in accordance with AC20-138 and found to meet the requirements paragraph 8c(2)(iv)(Follow-On IFR Airworthiness Installation Approval).

Five low level passes (less than 100 feet AGL) were made on Runway 24 on Hickory, NC Regional Airport. The coordinates for the end of Runway 24 are N-Lat. 35-44-41 and W-Lon. 81-22-47. The five low passes were recorded as follows:

1. N35-44-55 2. N35-44-54 3. N35-44-57 W81-22-58 W81-22-56 W81-22-59

4. N35-44-55 5. N35-44-57 W81-22-59 W81-22-58

Left and right 360 degree turns were made with 30 degrees of bank and no loss of navigation data was observed.

Various flights were made from HKY to RDU to RUQ with enroute approach transition and approach operations in hand flight and autopilot modes. The cross track error was below the maximums of 1.0 nmi enroute and approach transition and .25nmi approach. This included approaches at each of the three airports.

Pilot Billy M Alma Move License No. 243-24 9/002

An FAA approved supplement to the Pilot's Operating Handbook and FAA approved Airplane Flight Manual, dated 11 Sept. 1981 is required wdith this installation.

Weight and Balance data and Equipment List Updated.

# Federal Aviation > Administration

### **MAJOR REPAIR AND ALTERATION** (Airframe, Powerplant, Propeller, or Appliance)

Form Approved
OMB No. 2120-0020
For FAA Use Only
Office Identification

INSTRUCTIONS: Print of type all entries. See FAR 43.9, FAR 43 Appendix B, and AC 43.9-1 (or subsequent revision thereof) for instructions

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Weight and balance or operating limitation changes shall be entered in the appropriate aircraft record. An alteration must be compatible with all previous alterations to assure continued conformity with the applicable airworthiness requirements.

Description of Work Accomplished
 (If more space is required, attach additional sheets. Identify with aircraft nationality and registration mark and date work completed.)

Installed the following:

Bendix/King KLN89B GPS, s/n Pl451 in the avionics panel beneath the number one Nav Receiver. Bendix/King KA-92 GPS Antenna, s/n 04476 on top of the fuselage over the passenger seat area. MSI Avionics Model 97-10364A Nav Switching Box, s/n 3148 in the avionics panel beneath the KLN89B GPS. The KLN89B GPS was connected through the Model 97-10364A Nav Switching Box to the existing King KI-525A HSI to be shared with the Number one Nav Receiver. The Nav switching Box has the following Nav Source Annunciators: Nav-1 (Green), GPS (Blue) and the following GPS Status Annunciators: WPT (Amber), MSG (Amber) ACTV (Green), ARM (White), WARN (Red). The GPS was placarded "GPS Not Approved for IFR." The Autopilot will be driven from either Nav-1 or GPS along with the HSI. When the HSI is being driven by the GPS and an ILS Frequency is selected on the Nav-1 receiver, the Nav 1 Annunciator will light and the Nav-1 will automatically drive the HSI.

Installation of the above equipment was made in accordance with the manufacturer's installation instructions and wiring diagrams and AC43.13-2A. The above equipment was functional tested and found to meet the requirements of FAR 23.1301.

A flight check was made in accordance with AC20-138, 7c(1)(iv), (approval of installation for VFR operations).

Pilot's Signature: All Manchane, License No. 243 24 9602

Weight and Balance data and Equipment List updated.

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FAA Form 337 (7-67)

(8320)

Weight and balance or operating limitation changes shall be entered in the appropriate aircraft record. An alteration must be compatible with all previous alterations to assure continued conformity with the applicable airworthiness requirements.

8. DESCRIPTION OF WORK ACCOMPLISHED (if more space is required, attach additional sheets. Identify with aircraft nationality and registration mark and date work completed.)

Removed both NAV indicators (King KI206 & KI202) and directional gyro from left instrument panel. installed #1 NAV indicator to #2 NAV using existing harness and plug. Installed new King KCS-55A H.S.I. system: KI-525A S/N:34055, in left instrument panel below attitude gyro at station 13.0, installed KA-51B S/N:11563, slaving accessory in lower left of left instrument panel, at station 16.5, installed KMT-112 S/N:33601, magnetic azimuth transmitter to right wing tip rib, at station 52.0, installed KG-102A S/N:29430 to right side of rear avionics shelf, behind rear baggage compartment bulkhead at station 151.0. Relocated auto-pilot roll and pitch flight guidance computers aft from station 160.0 to station 170.0. Modified roll flight guidance computer in accordance with S-TEC drawing #0502 and placarded per note one. HSI system was connected in accordance with manufacturer's instructions (King drawing 155-1147-02, R2). Connected HSI to roll flight guidance computer in accordance with S-TEC drawing #1003. All equipment and wiring harness was mounted in accordance with' manufacturer's instructions and in accordance with AC 43.13-1A and AC43.13-2A. Compass and gyro card deviation was checked and adjusted by repair station #7035. Auto-pilot outputs were also checked and adjusted by repair station #7035. VOR's were checked for accuracy. H.S.I. system was ramp and flight checked and did not interfere with any other existing equipment or flight controls. 'equipment list was updated. The weight and balance was revised to reflect these changes and an entry was made in the aircraft logbooks.

New empty weight :2499.49 lbs. New empty CG : 41.24 in. New useful load :1516.51 lbs.

210'21 TD8



ADDITIONAL SHEETS ARE ATTACHED

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Weight and balance or operating limitation changes shall be entered in the appropriate aircraft record. An alteration must be compatible with all previous alterations to assure continued conformity with the applicable airworthiness requirements.

B. DESCRIPTION OF WORK ACCOMPLISHED (If more space is required, attach additional sheets. Identify with aircraft nationality and registration mark and date work completed.)

INSTALLED PRECISE FLIGHT, INCORPORATED, STANDBY VACUUM SYSTEM IAW AIRFRAME

STC. SA 2162NM AND CONTINENTAL STC. SE1780NM.

ALL WORK WAS ACCOMPLISHED AS PER INSTRUCTIONS SUPPLIED WITH THE STC'S

AND A.C. 43-13 IA WHERE APPLICABLE----END-

ADDITIONAL SHEETS ARE ATTACHED

\$U.S. GOVERNMENT PRINTING OFFICE: 1977-771-071/700

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Weight and balance or aperating limitation changes shall be entered in the appropriate aircraft record. An alteration must be compatible with all previous alterations to assure continued conformity with the applicable airworthiness requirements.

SCRIPTION OF WORK ACCOMPLISHED (If more space is required, attach additional sheets. Identify with aircraft nationality and registration mark and date work completed.)

Installed 3M (RYAN) WX-10A Stormscope As Follows:

Display at bottom of center radio stack. Station 14.5 Processor under rear seat in area designated by manufacture for avionics instillations. Station 100.0 Antenna on belly of aircraft. Station 145.5

Cable was fabricated using Mil. Spec. wire and connectors furnished by 3M.All units were installed and interconnected using manufacture's manuals and approved procedures.

The stormscope was ramp tested using RYAN WXP7 test set and found to check OK.

A test flight was conducted with all systems and equipment organting, with special attention to the Comm/Nav, Marker, and ADF system The stormscope was also checked for proper operation with all systems and equipment operating No interference was noted on the stormscope or other aircraft systems.

Instillation is in accordance with AC43-13-1A and AC43-13-2A and manufacture's manuals. Aircraft weight and balance was updated and equipment list revised. ADDITIONAL SHEETS ARE ATTACHED

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Weight and balance or operating limitation changes shall be entered in the appropriate aircraft record. An alteration must be compatible with all previous alterations to assure continued conformity with the applicable airworthiness requirements.

 DESCRIPTION OF WORK ACCOMPLISHED (If more space is required, attach additional sheets. Identify with aircraft nationality and registration mark and date work completed.)

S-TEC System 60 Two Axis Autopilot with Optional Automatic Elevator Trim System is installed in accordance with S-Icc Installation Bulletin No. 130, Rev. 3, dated 1-27-82 as approved under STC SA4273SN, with the following deviation:

The Trim Servo was installed, attached to existing radio shelf, approximately twelve inches forward of location defined in data. Servo was installed in accordance with S-TEC installation brawing No. 76158, dated 3-12-82. Load test was conducted on servo installation bracketry and surrounding structure. (Ref: S-TEC structural load test no. SLT-079). System operation not affected.

The addition of this system does not appreciably affect the magnetic compass and does not cause the electrical load to exceed 80% of the alternator output.

Weight and balance data and equipment list was modified to incorporate this change. Refer to Weight & Balance Data dated 3-04-82. Copy of POH Supplement P/N 8937 was included in aircraft's permanent records.

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ADDITIONAL SHEETS ARE ATTACHED

Form Approved Budget Bureau No. 04-R0058 INSTRUCTIONS—Print or type. Do not write in shaded areas; these are for FAA use only. Submit original only to an authorized FAA Repersentative. If additional space is required, use an attachment. For special flight permits complete Sections II and VI or VII as DEPARTMENT OF TRANSPORTATION FEDERAL AVIATION ADMINISTRATION APPLICATION FOR AIRWORTHINESS CERTIFICATE applicable. N9923Y T210N 1982 Cessna S. AIRCRAFT SERIAL NO. 6. ENGINE BUILDER'S NAME ( scale) 7. ENGINE MODEL DESIGNATION 7640 Continental 21064641 TSIO-520-R 8. NUMBER OF ENGINES P. PROPELLER BUILDER'S NAME ( MJA: D. PROPELLER MODEL DESIGNATION McCauley D3A34C402/90DFA-10 One APPLICATION IS HEREBY MADE FORI (Check applicable term) A 1 X STANDARD AIRWORTHINESS CERT. (Inilicate category) SNOBMAL UTILITY ACROBATIC TRANSPORT GLIDER SPECIAL AIRWORTHINESS CERTIFICATE (Check appropriate fiers) REQUESTED 5 PROVISIONAL (Indicate class) CLASS II 2 AGRICULTURE & PLST CONTROL RESTRICTED (Indicate operation(s) to be conducted) 3 POREST (Wild life conservation) 5 PAIROLLING 6 WEATHER CONTRO CERTIFICATION 0 OTHER (Specify) RESEARCH AND DEVELOPMENT AMATEUR BUILT 3 EXHIBITION RACING CREW TRAINING 6 MK1. SURVEY 5 0 TO SHOW COMPLIANCE WITH FAR SPECIAL FLIGHT PERMIT (Indicate operation to be conducted then complete Section VI or VII as applicable on reverse side) FERRY FLIGHT FOR REPAIRS, ALTERATIONS, MAINTENANCE OR STORAGE ≓ 2 EVACUATE FROM AREA OF IMPENDING DANGER OPERATION IN EXCESS OF MAX. CERTIFICATED TAKE-OFF WEIGHT DELIVERING OR EXPORT 5. PRODUCTION FLIGHT TESTING MULTIPLE AIRWORTHINESS CERTIFICATE (Check appropriate Restricted Operation and Standard or Limited as applicable above) A. REGISTERED OWNER (As shown on Certificate of Aircraft Registration) IF DEALER, CHECK HERE 5800 East Pawnee Road ADDRESS Cessna Aircraft Company Wichita, Kansas 67201 B. AIRCRAFT CERTIFICATION BASIS (Check applicable blocks and complete items as indicated) CERTIFICATION AIRCRAFT SPECIFICATION OR TYPE CERTIFICATION DATA SHEET (Gir No. ) 3A21 Rev. 34 ARWORTHINESS DIRECTIVES (Chick if all applicable AD's complied with and give latest AD No.) 82-07 82-01 AIRCRAFT LISTING ( Give page No(1).) SUPPLEMENTAL TYPE CERTIFICATE (List number of each STC incorporated) C. AIRCRAFT OPERATION AND MAINTENANCE RECORDS OWNER'S X. CHECK IF RECORDS IN COMPLIANCE WITH FAR 91.173 3 EXPERIMENTAL ONLY - Enter bours flown since last certificate issued or renewed TOTAL AIRPRAME HOURS-D. CERTIFICATION—I hereby certify that I am the owner (or his agent) of the aircraft described above; that the aircraft is registered with the Federal Aviation Administration in accordance with Section 301 of the Federal Aviation Act of 1958, and applicable Federal Aviation Regulations; and that the aircraft has been inspected and is airworthy and eligible for the airworthiness certificate requested. Gen. Mgr. SIGNATURE Pawnee Div. William NAME AND TITLE (Print or 1)pr) William A. Boettger, 1-27-82 A. THE AIRCRAFT DESCRIBED ABOVE HAS BEEN INSPECTED AND FOUND AIRWORTHY BY: (Complete this section only if FAR 21.18) (d) Applied FAR PART 121 OR 127 CERTIFICATE HOLDER (Gire Certificate No.) CERTIFICATED MECHANIC (Gir CERTIFICATED REPAIR STATION (Gue Certificate 2 Certificate No.) AIRCRAFT MANUFACTURER (Git Name of Firm) 5 (Check ALL opplicable blocks) I find that the discrete described in Section I or VII meets the requirements for: X The certification requested, or A mendment or modification of its current alloworthiness certificate. Inspection for a special flight permit under Section VII was conducted by: FAR 101 inspector; certificate in FAR 65, FAR 121 or 127, or FAR 145. ICT EMDO DESIGNEE'S SIGNATURE AND NO.
CESSON Alicant Co., Pawnee Div. Delegation Option Manufacturer, CE-1
By Contact Contact 1-27-82 3-0-43 Daniel L. Goble

FAA Form 8130-6 (7-70)

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U.S. Department

### MAJOR REPAIR AND ALTERATION

Form Approved OMB No. 2120-0020

For FAA Use Only

Federal Aviation	(	Airframe,	Po	werplant	t, Pr	opell	er o	r Appliance)				
INCTOLICTIONS: 6	entries. Se d by law (4)	e FAR 43.9, FAR 9 U.S.C. 1421). F	43 / ailus	Appendix B, an e to report can	d AC 4	43.9-1 (or in a civil	r subse penalt	equent revision thereof) y not to exceed \$1,000 f	for instruction	ons and disposition th violation (Section	of this form 901 Federal	
1 Aircraft	Make	CESSNA						Model T210N				
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Weight and balance or operating limitation changes shall be entered in the appropriate aircraft record. An alteration must be compatible with all previous alterations to assure continued conformity with the applicable airworthiness requirements.

### B. Description of Work Accomplished (If more space is required, attach additional sheets. Identify with aircraft nationality and registration mark and date completed.) N9923Y INSTALLED GARMIN GNS430W S/N 23422387 AND GA35 ANTENNA S/N 447273 IN ACCORDANCE WITH GARMIN INSTALLATION MANUAL 190-00356-02 REV E DATED MARCH 2008 AND STC # SA01933LA WITH APPROVED MODEL LIST. INSTALLED GNS430W FAA APPROVED FLIGHT MANUAL SUPPLEMENT P/N 190-00356-03 REV A DATED NOVEMBER 2007 IN AIRCRAFT RECORDS THE COMPONENTS AND SYSTEMS INSTALLATIONS OF THE EQUIPMENT ON THIS 337 WERE ACCOMPLISHED IN ACCORDANCE WITHAC43:13-2A, CHAPTERS 1, 2, AND 3 AS APPLICABLE. ELECTRICAL LOAD, CIRCUIT PROTECTION AND WIRE INSTALLATION WERE ACCOMPLISHED IN ACCORDANCE WITH AC43.13-1B, CHAPTER 11, SECTIONS 3 THRU 17. THE AIRCRAFT EQUIPMENT LIST IS REVISED TO REFLECT THESE CHANGES: SEE THE AIRCRAFT RECORDS FOR REVISED WEIGHT AND BALANCE. THE APPROVED FLIGHT MANUAL OR PILOTS OPERATING HANDBOOK WAS UPDATED AS REQUIRED. A FUNCTIONAL TEST OF THE INSTALLATION DESCRIBED IN THIS 337 WAS PERFORMED IN ACCORDANCE WITH FAR 23.1301 AND FAR 23.1431, OPERATION WAS SATISFACTORY AND THE INSTALLATION DID NOT ADVERSELY AFFECT EXISTING COMPONENTS OR SYSTEMS IN THE AIRCRAFT. ----END--

Bepartment of Transportation - Nederal Abiation Administration

## Supplemental Type Certificate

Number SA01933LA

This Certificate issued to

Garmin AT, Inc. 2345 Turner Road S.E. Salem, Oregon 97302

certifies that the change in the type design for the following product with the limitations and conditions therefor as specified hereon meets the airworthiness requirements of Part \* of the Regulations

Original Product Type Certificate Number.

\* See attached Approved Model List (AML)

Make:

No. SA01933LA for list of approved aircraft

Model:

Models and applicable airworthiness regulations.

Description of Type Design

Whange: Installation of Garmin Model 400W / 500W Series GPS-WAAS Navigation System in accordance with FAA Approved Garmin 400W Series Master Data List, Drawing No.: 005-C0221-00, Revision "B", dated October 1, 2007, or later FAA approved revision; or FAA Approved Garmin 500W Series Master Data List, Drawing No.: 005-C0221-01, Revision "B", dated October 1, 2007, or later FAA approved revision. Use applicable FAA approved 400W Series Airplane Flight Manual Supplement, document No. 190-00356-03, Rev. "Original", dated November 20, 2007 or later FAA approved revision; FAA Approved 500W Series Airplane Flight Manual Supplement document No. 190-00357-03, Rev. "Original", dated November 20, 2007 or later FAA approved revision; or FAA Approved Airplane Flight Manual Supplement as defined in Master Data List 005-C0221-00 or 005-C0221-01 defined above.

Bimilations and Conditions: This approval should not be incorporated in any aircraft unless it is determined that the interrelationship between this installation and any previous approved configuration will not introduce any adverse effect upon the airworthiness of the aircraft. If the holder agrees to permit another person to use this certificate to alter the product, the holder shall give the other person written evidence of that permission.

This certificate and the supporting data which is the basis for approval shall remain in effect until surrendered, suspended, revoked or a termination date is otherwise established by the Administrator

Date of application. January 31, 2006

Date reissweek

Date of issuance:

November 6, 2006

Date amended: November 20, 2007



By direction of the Administrator

Project Manager, Systems & Equipment Branch, Los Angeles Aircraft Certification Office

Any alteration of this certificate is punishable by a fine of not exceeding \$1,000, or imprisonment not exceeding 3 years, or both.

US Department of Transportation Federal Aviation

Administration

### MAJOR REPAIR AND ALTERATION (Airframe, Powerplant, Propeller, or Appliance)

Form Approved OMB No. 2120-0020

For FAA Use Only

Office Identification

INSTRUCTIONS: Print or type all entries. See FAR 43.9, FAR 43 Appendix B, and AC 43.9-1 (or subsequent revision thereof) for instructions and disposition of this form. This report is required by law (49 U.S.C. 1421). Failure to report can result in a civil penalty not to exceed \$1,000 for each such

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Weight and balance or operating limitations changes shall be entered in the appropriate aircraft record. An alteration must be compatible with all previous alterations to assure continued conformity with the applicable airworthiness requirements.

8. DESCRIPTION OF WORK ACCOMPLISHED (If more space is required, attach additional sheets. Identify with aircraft nationality and registration mark and date work completed.)

N9923Y

CESSNA T210N

SERIAL NUMBER 21064641

DATE: 11/09/2005

INSTALLED JPI FS-450 FUEL FLOW INDICATING SYSTEM IN ACCORDANCE WITH JPI INSTALLATION MANUAL FS-450, REPORT NO. 400, REVISION A DATED 08/09/2002. THIS INSTALLATION WAS ACCOMPLISHED IN ACCORDANCE WITH J.P. INSTRUMENTS STC, SA00861SE.

INSTALLED FUEL FLOW TRANSDUCER IN ACCORDANCE WITH J.P. INSTRUMENTS FUEL FLOW INSTALLATION MANUAL, REPORT NO 503 REVISION B, DATED 03-17-97. THIS INSTALLATION WAS ACCOMPLISHED IAW J.P. INSTRUMENTS STC. SA00432SE.

THE AIRCRAFT FLIGHT MANUAL, WEIGHT AND BALANCE, AIRCRAFT LOGS, AND EQUIPMENT LIST WERE UPDATED.

----END----

☐ ADDITIONAL SHEETS ARE ATTACHED

8	
US Departmen	
of Transportation	
Federal Aviati	
Administration	

# MAJOR REPAIR AND ALTERATION (Airframe, Powerplant, Propeller, or Appliance)

ı	Form Approved OMB No. 2120-0020 11/30/2007	Electronic Tracking Number
	F	or FAA Use Only

Administration	10.00												
INSTRUCT instructions such violation	and disposi	tion of this	form. This	see Title 14 report is re	4 CFF	Red	§43.9 by la	, Part 43 w (49 U.	Appendix B, S.C. §44701).	and A Failur	AC 43.9 e to rep	-1 (or sub ort can res	sequent revision thereof) for sult in a civil penalty for each
1. Aircraft	Nationality	V99	233	rk/					Serial No.	21	06	16	Series N 1
2. Owner	Name (As	shown on		certificate		1	11		1-	239	DI		MAN WAY State PA
						3	For	AA Use				Count	
						3.		AA USE	- City				
4. Ty	ре					5.	. Unit	Identifica	ation				
Repair	Alteration	Uni	t		Mak	ke		1		Mo	odel		Serial No.
	X	AIRFRAN	1E						(As descr				
		POWERP	LANT										
		PROPELI											
		APPLIAN	CE Man	ufacturer									
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A. Agency's Name	) Q VI		7-1	C		X	_		ated Mechanic			Man	ufacturer
Address 106			25	>			F	reign Cert	ificated Mechan	ic		C. Certifi	
City Sob	binsv		Stat	e /01					Repair Station  Maintenance Or	ganizati	ion	228	20970
have be	that the reperent made in add therein is to	accordance	e with the i	best of my	ts of F	Pa	edge.	of the U.S	em 5 above a	and de ation R	scribed	on the revenue and the	erse or attachments hereto at the information
Extended ran per 14 CFR P App. B	_			Date of Au	RE	E	SE		2	2		#22	00970
Pursuant to Administrate	the author of the Fed	rity given leral Aviation	persons son Adminis	specified b	elow,				fied in item Approved	5 was	inspec		e manner prescribed by the
Ins	A Flt. Stand	ards	Manufact	urer		1	Mainte	nance O	rganization			ons Approve	ed by Canadian ransport
BY	A Designee		Repair St	ation	X	1	Inspe	ction Auth	orization	Ot	her (Sp	ecify)	
Certificate or Designation N	Sertificate or Signature/Date of Authorized Individual Pesignation No. 2015 Eric. L. Balke												

Weight and balance or operating limitation changes shall be entered in the appropriate aircraft record. An alteration must be compatible with all previous alterations to assure continued conformity with the applicable airworthiness requirements.

8. Description of Work Accomplished (If more space is required, attach additional sheets. Identify with aircraft nationality and registration mark and date work completed.)
, and the state of
N9923Y
Nationality and Registration Mark
Installation of vortex generators on the wings and tail surfaces in accordance with Drawing Package MA2156, Revision A, dated September 13, 2001, and Installation Manual MA2157, Revision B, dated September 21, 2007, per STC#SA00941SE.
Instructions for Continued Airworthiness of Micro Vortex Generator Installations are stated on VG Operating Placard #MA8001 which must be installed in an easily seen location in the cockpit. This placard states: "if more than 5 VGs are damaged or missing, the aircraft is not airworthy." To make it airworthy, the missing VGs in excess of five need to be replaced. The VGs should be examined prior to each flight, during the pre-flight inspection, to determine if any are missing or damaged. Missing or damaged VGs in excess of five need to be replaced by the installation of a new (replacement) part. Installation is accomplished with Loctite Depend Adhesive #330. No other maintenance or inspections are necessary.
Negligible weight change
END
Additional Sheets Are Attached