

EQUIPMENT CHANGE - WEIGHT AND BALANCE

REG. NO.: N34626

MODEL: 177B

SERIAL NO.: 17701907

Item:	Weight	Arm	Moment			
Remove stock exhaust and add Power Flow exhaust	+5.85 (net)	54.0	315.9			
			015.0			
Totals	+5.85		315.9			
A. Old Empty Weight B. Old Empty CG			1593.57			
C. Old Empty Weight CO	3 Moment	166034.84				
D. Max Gross Weight			2500			
E. Old Useful Load			906.43			
A. New Empty Weight			1599.42			
B. New Empty CG	~~		104.00			
C. New Empty Weight			166350.74			
D. Maximum Gross We E. New Useful Load	igni		2500 900,58			
THE LIGHT CHOICE TANK			700.00			

This new weight and balance information supersedes all previous weight and balance data. For aircraft loading, see instructions in Weight and Balance section of Aircraft Flight Manual.

Calculated from weight and balance dated: Feb. 24. 1990

Date: 12-18-03
Signed: A&P: 522901579
Firewall Forward, Inc.
Loveland, CO 80538 Firewall Forward, Inc.

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US Department of Transportation

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

Form	Appr	oved	
		2120	-0020

For FAA Use Only Office Identification

Federal Aviation Administration

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 civil penalty not to exceed \$1,000

for each suci	n violation (Secti	ion 90)1 Federal Aviation A	ct of 1	958).							
	Make Cessna						Model 177B					
1. Aircraft	Serial No. 17701907						Nationality and Registration Mark N-34626					
	Name (As sh	own (on registration certific	ate)			Address	(As shown on regis	tration certii	ficate)		
2. Owner	Hagen, Rich	ard A						S 1st Ave ix, AZ 85045-0701				
					3.	For FAA Use On	ily					
	1				4.	Unit Identification	n			5. Type		
Unit		Ma	ake			Model		Serial N	ο.	Repair	Alteration	
AIRFRAME	(As de					escribed in Item 1 above)					х	
POWERPLANT												
PROPELLER												
APPLIANCE	Type Manufacturer											
					6. Cc	onformity Statem	ent			<u> </u>		
A. Agency's Nar	ne and Address				В.	B. Kind of Agency C. Certificate N						
Jason Bowman 3152 W Thude Dr Chandler, AZ 85226					X U.S. Certificated Mechanic 2864397 A&P Foreign Certificated Mechanic Certificated Repair Station Manufacturer							
have been	made in accord	lance	Iteration made to the with the requirement rect to the best of my	s of P	Part 43	ntified in item 4 a 3 of the U.S. Feder	bove and al Aviation	described on the rev n Regulations and th	verse or atta at the infor	achments here mation	to	
Date					Sig	nature of Authoriz	ed Individ	HELD.				
March 2, 2005						Jason Bowman						
						al for Return to						
Pursuant to the Administrator of	e authority given of the Federal A	pers riation	ons specified below, n Administration and	the un is	iit idei	ntified in item 4 wa ☑ APPROVED	s inspecte Ri	ed in the manner pre EJECTED	scribed by	the		
FAA F Inspec	it. Standards xtor		Manufacturer	х	Ins	pection Authorizat	ion	Other (Specify)				
FAA	Designee		Repair Station			son Approved by nada Airworthines		/ I				
Date of Approval March 2, 2005	or Rejection		Certificate or Designation No.		Signature of Authorized Individual Kevin A Bowman							
Walcit 2, 2005 459276065 IA					Kevin A Bowman Leven A Saurna							

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.) N-34626 March 2, 2005 TTAF: 2080.4
Installed main landing gear wheel pants (P/N 89-1102-16 and 89-1102-17) from Maple Leaf Aviation in accordance with STC SA902NE, Maple Leaf Aviation installation instructions, drawing GA1102-SEMB, Rev. A, dated 5/29/1989, and drawing AD1102-SEMB, Rev. A, dated 4/6/1989. Installed nose landing gear wheel pant (P/N PD85-1101) from Maple Leaf Aviation in accordance with STC SA902NE, Maple Leaf Aviation installation instructions, and drawing AD1101-SENB, Rev. C, dated 6/1/1994. Installed fiberglass stabilator tips (P/N ST-001) from Maple Leaf Aviation in accordance with STC SA00908NY, Maple Leaf Aviation installation instructions, and drawing ID-RS 177 ST-001 dated 2/19/1997. Weight and balance change negligible.
ENDEND
Additional Sheets Are Attached

U.S Department of Transportation
Federal Aviation
Administration

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

Form Approv OMB No. 21		
	For FAA U	

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 violation (Section 901 Federal Aviation Act 1958)

		tion of this form. I					.o. 1421). Failure	.,	can result in a ci	vil penalty not to exc	eea \$1,000				
1. Airc	raft	_{Make} Cessna	† _						Model 177B						
I. AUC	idil.	Serial No. 17701907					Nationality and Registration Mark N34626								
2. Ow	ner	Name (As sho Hagen Rich			tificate)			Address (As shown on registration certificate) 16449 S 1st Ave Phoenix AZ 85045							
					,		3. For FAA Use	Only							
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,							4. Unit Identific	ation		· · · · · · · · · · · · · · · · · · ·	5. Type				
U	nit	۸	lake				Model		S	erial No.	Repair	Alteration			
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POWER	PLANT														
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	ncy's Nar as E. F	ne and Address					Gind of Agency	/ 8 / 2 - 1 :		C. Certificate N	0.				
c/o Fir 5212 (ewall f Cessna	Forward Inc. Dr.				号	Foreign Certificated Mechanic Certificated Repair Station				369				
D. 10	ertify tha									erse or attachments					
	erein is t	rue and correct to	he be	st of my knowle	dge.			,							
Date 12-18-	-03						Signature of And	Morized In							
						7. Ap	proval for Retur	n to Servi	ce						
		e authority given pe of the Federal Avia						s inspecte REJECTED		prescribed by the					
BY		A Flt Standards pector		Manufacturer		Х	Inspection Author	orization		Other (Specify)					
J.	FA	A Designee		Repair Station	1		Person Approve Canada Airworth			~					
Date of A 12-18-		or Rejection	Desi	ificate or ignation No. 29015791A			Signature of Aut	horized Inc	dividual						
						_			2 1. 10 x						

FAA Form 337 (12-88)

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.)										
•										
Completed modification of engine exhaust system for improved engine performance by installation of Power Flow Systems, Inc. Tuned Exhaust System per Master Drawing List, PFS-13740-00, Revision, IR dated: 06-05-03, Installation Instructions Report, PFS-13750-00, Revision A, dated: 08/30/02 and Instructions for Continued Airworthiness Report, PFS-13760, Revision A, dated: 08/03/02, or later FAA approved revisions per STC SA02674AT. Aircraft weight and balance revised. END.										
'										

Additional Sheets Are Attached

US Deportment 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 instance.	tructions
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 exce	ed \$1,000 -
for each such violation (Section 901 Federal Aviation Act of 1958).	

an	id disposit	ion of this form. T	his report is require on 901 Federal Avia	d by ia	w (49	U.S.C. 1421). Fa	ilure to re	eport can result in a	civil pena	alty not to exc	eed \$1,000		
		Make Cess	na na				Model	177 B		•	, , , , , , , , , , , , , , , , , , ,		
1. A	ircraft	Serial No.			Nationality and Registration								
			01907					s.a. N346					
٠,	•	i	n on registration ce		e)			(As shown on reg l Boeing R		ertificate)			
2. °O	wner		. Robertso . Robertso	,	or Cameron Park,					95682			
		Tolette T		11.		3. For FAA Use Only.							
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		Γ	r -		4.	Unit Identificati	On			5. Type	17,		
	Unit	М	ake			Model		Serial No). 	Repair	Alteration		
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\PPLI	ਚ ANCE	Type Manufacturer								r + v = 0	112		
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					T	nformily Staten	ent .				166		
L AU	Tency s ME	ame and Address			 	Kind of Agency U.S. Certificated	Machanic		f	ficate No.),12 4		
5/2	ende	of Mal	erlin			Foreign Certifica			1	1015598	1		
25	341	Boeing of	fed.	_		Certificated Rep	air Station			D. 100	2.3%		
0	mer	m Th. C.	4. 95682			Manufacturer	· · · · ·		L	<u>-</u>	<u>·</u>		
١	have been	made in accorda	or alteration made to noe with the require correct to the best	ments	of Pa	art 43 of the U.S	4 above a . Federal	and described on th Aviation Regulation	ne reverse ons and th	at the inform	its hereto ation		
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				7 An	pproval for Return To Service								
Purs	suant to t	he authórity give	n persons specifiéd					Luras inspected in	the man	nas procesibe	d by the		
Adn	ninistrator	of the Federal Av	iation Administratio	n and	is	APPROVED	□ RI	EJECTED	THE INTERIOR	mer prescribe	u by tile		
.,	FAA I Inspe	It. Standards ctor	Manufacturer	y	Inspection Authorization Person Approved by Transport Canada Airworthiness Group								
Y	FAA	Designee	Repair Station								11 \$ 200 - 2		
ate o	f Approva	for Rejection .	Certificate or Designation No.	•	Sign	ature of Author	ized Indiv	ridual					
for	4/4-	1491	1244526		4	w) no	ZJ_	fort					

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.

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Weight and Balance Computation-----N34626 Previous Useful Load--920.43 Computed Feb. 24. 1990--Tach Time--1427.0 hrs.

ITEM	WT.	ARM	MOMENT	s/N
Aircraft	1579.57	104.05	164356.22	
Programmer/Computer Roll Servo	2.8	71.6	200.48 367.14	1502 Unknown
Pitch Servo	2.9	213.00	617.7	Unknown
Turn Cord-Net Chg.		71.6	35.8	5284E
Dir. Gyro-Net Chg.	2.6	70.5	183.3	32577
Transducer	.5	213.00	106.5	Unknown
Associated Wiring	1.5	111.8	167.7	None
	1593,57	j	166034.84	•

New Empty Weight C. G. --104.19 New Useful load--906.43 lbs.

The above computation was made after installation of S-Tec Autopilot Model ST-243-50 as per STC. #SA53178W-D.

Gerald F. Robertson

A&P 1015598

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

Form Approved Budget Bureau No. 04-R060.1

FOR FAA USE ONLY

OFFICE IDENTIFICATION

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IN for	STRUC'	TIONS: Print ions and disp	or ty	pe all entries. See on of this form.	FAR	R 43.9, FAR 43 Appe	endix B, an	d AC 43.9-1 (o	r subsequent	revision t	hereof)			
		MAKE C.E.	5.5	N B			MODEL	1471						
1. A	IRCRAFT			0190%	·		NATIONAL	ITY AND REGIS	STRATION M	ARK				
	,	NAME (As al	hown c	on registration certification. Red external	(icate)		ADDRESS (As shown on red	istration certif	ficate)				
2. 0	WHER	Parelo	人人	. Robertse	و مسميدي		CAMERON PONK. CA 9568							
				- 10.00.00 - 1)*	3. FOR FAA USE ON		<u> </u>	_/1,		> to			
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		1		4. UN	IIT ID	DENTIFICATION		-		5.	TYPE			
U	TIMU		MA	LKE		MODEL		SERIAL	NO.	REPAIR	ALTER-			
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AIRFR	RAME	**	****	***************************************	As de	escribed in item 1 abo	ove) ******	************	**		ļ			
								1			 			
POWE	ERPLANT													
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PROPE	ELLER								1					
		TYPE	$\overline{}$			t-243-40/50 1502			A) ,		+			
APPLIA	ANCE	AUYO	Ti	207	71	ニュイン・ブ	0/30	/50	استكن		/ \			
, .		S. TEC CORP.							<i>.</i>					
		<u> </u>			6	CONFORMITY STATEM	ENT							
				AND ADDRESS		B, KINI	D OF AGE			TIFICATE				
	ald ô			200		U.S. CERTIFICATE			1015	598	•			
		deing 9	Rol,			FOREIGN CERTIFS CERTIFICATED RE								
	بهسسس	\sim .		95682		MANUFACTURER	FAIR WILLE	· · · · · · · · · · · · · · · · · · ·						
D. I	certify t	hat the repai	ir and	l/or alteration mad	de to	the unit(s) identif	fied in item	4 above and	described on	the reve	rse or			
2(ttachmen	ts hereto hav	e beer	n made in accorda:	nce v	with the requirement and correct to the be	ts of Part 4	3 of the U.S. F	ederal Aviati	ion Regul	ations			
ATE		4/90				SIGNATURE OF A				 -				
c	de o	7//-			ļ	l ,0	4	Do 7						
7. APPROVAL FOR RETURN TO SERVICE														
Pursu	iant to the	he authority a ator of the Fe	given ederal	persons specified b Aviation Administr	in item 4	was inspected in	the manner	prescribe	ed by					
		T. STANDARDS		MANUFACTURER		INSPECTION AUTHORIZA		OTHER (Specify)						
3Y -			,	REPAIR STATION							,			
ATE OF APPROVAL OR CERTIFICATE OR DESIGNATION NO. REPAIR STATION OF TRANSPORT INSPECTOR OF AIRCRAFT OF AIRCRAFT SIGNATURE OF AUTHORIZED INDIVIDUAL DESIGNATION NO.														

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.)

INSTALLE & S-TEC- AUTO PILOT AS PER

\$3453175W-DAS SOLLOWS;

INSVALLATION of S. VEC System 50 Too AND \$5020 SLIELT QUI dance System, MODEL ST- 243-50, ACCORDING to BULLEY; N NO. 343, dAVE & 3-01-84 & MASTER DROWING LIST NO. 92275 KAKES 5-01-84 AND LATER FAX APPROVED REUSSIONS OF THE AGOVE Data, (14 volt system)

rENd-



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

Form Approved Budget Bureau No. 04-R060.	Form A	Ipproved		
	Budget	Bureau	No.	04 -R 060.1

FOR FAA USE ONLY OFFICE IDENTIFICATION

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

	MAKE	MODEL			
1 AIBCDAET	Cessna	177B?			
1. AIRCRAFT	SERIAL NO.	NATIONALITY AND REGISTRATION MARK			
_	17701907	N34626			
2. OWNER	NAME (As shown on registration certificate) Gerald F. Robertson or Lorene E. Robertson	ADDRESS (As shown on registration certificate) 2941 Boeing Road, Cameron Park, Ca. 95682			

3. FOR FAA USE ONLY

		UNIT IDENTIFICATION		5.	TYPE
UNIT	MAKE	MODEL	REPAIR	ALTER- ATION	
AIRFRAME	***************************************	***************************************		X	
POWERPLANT			i i i		
PROPELLER					
APPLIANCE	System-50 MANUFACTURER S-Tec Corp.	ST-243-50	1502	The state of the s	х

<u> </u>	COME	VKMITI STATEMENT	
A. AGENCY'S NAME AND ADDRESS		B. KIND OF AGENCY	C. CERTIFICATE NO.
Gerald F. Robertson or	х	U.S. CERTIFICATED MECHANIC	1015598
Lorene E. Robertson		FOREIGN CERTIFICATED MECHANIC	
Lorono M. Robologo		CERTIFICATED REPAIR STATION	
		MANUFACTURER	

D. I certify that the repair and/or alteration made to the unit(s) identified in item 4 above and described on the reverse or attachments hereto have been made in accordance with the requirements of Part 43 of the U.S. Federal Aviation Regulations

and that the information furnished herein is true and correct to the best of my knowledge. DATE SIGNATURE OF AUTHORIZED INDIVIDUAL Feb. 24, 1990

7. APPROVAL FOR RETURN TO SERVICE

Pursuant to the authority given persons specified below, the unit identified in item 4 was inspected in the manner prescribed by the Administrator of the Federal Aviation Administration and is APPROVED REJECTED

		FAA FLT. STANDARDS	MANUFACTURER		INSPECTION AUTHORIZATION	OTHER (Specify)
BY		FAA DESIGNEE	REPAIR STATION		CANADIAN DEPARTMENT OF TRANSPORT INSPECTOR OF AIRCRAFT	
DATE	_	APPROVAL OR	CERTIFICATE OR DESIGNATION NO		SIGNATURE OF AUTHORIZED	MOIVIDUAL

(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.)

Installed S-Tec Autopilot as per S-Tec's installation instructions and as per STC # SA5317SW-D as follows.

---END----

Installation of S-Tec System 50 two axis flight guidance system, Model ST-243-50, according to bulletin No. 343, dated 5-01-84 & Master Drawing List No. 92275 dated 5-01-84 and later FAA approved revisions of the above data. (14 Volt System).

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

Form Approved Budget Bureau No. 04-R060.1

FOR FAA USE ONLY

OFFICE IDENTIFICATION C-GADO

									0.12
INSTRUCT for instructi	TONS: Print or t ons and dispositi	ype all entries. See on of this form.	FAR 43.9	, FAR 43 App	endix B, an	d AC 43.9-1 (or subsequent	revision t	hereof)
	MAKE				MODEL				
1. AIRCRAFT	Cess	na			17				
I. AIRCRAFI	SERIAL NO.	- 			NATIONAL	ITY AND REC	SISTRATION M	ARK	
	17701	907				N34626			
		on registration certifi				(As shown on re		ficate)	
2. OWNER		. Robertson		or		Boeing			~~~
	Gerald F	. Robertson				gle Spri	ngs, ca	L1f. 9	35682
			3. FU	OR FAA USE ON	LY				
		4. UN	IT IDENTIF	ICATION		··		5.	TYPE
UNIT	,	MAKE		MODEL		SERI	AL NO.	REPAIR	ALTER-
								REPAIR	ATION
AIRFRAME	******	***************************************	As describe	ed in item 1 ab	ave)	*******	****		х
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POWERPLANT			1	, /					
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PROPELLER		رام .	ر ان کر						
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APPLIANCE	MANUFACTURER		P						
						<u> </u>		<u> </u>	
			6. CONF	ORMITY STATEA			1 1.		
A. A	GENCY'S NAME	AND ADDRESS			ID OF AGE			RTIFICATE	
	d F. Robe		X	U.S. CERTIFICAT			\perp A&P 10	15598	7
2941 .	Boeing Ros	ad,	_	FOREIGN CERTIF			_		
Shing:	le Springs	s, Calif. 95	5682	CERTIFICATED R		<u> </u>	_}		
			!	MANUFACTURER		<u> </u>			
attachmen	its hereto have be	nd/or alteration made een made in accorda urnished herein is ti	nce with t	the requiremen	its of Part	43 of the U.S.			
DATE			SIG	NATURE OF	AUTHORIZE	INDIVIDUAL	,		
Dec.	19, 1983		le	Geral	l F	Tak	erbon	<u> </u>	
-					SERVICE				
Pursuant to t	the authority give rator of the Feder	n persons specified bal Aviation Administ	pelow, the tration and	unit identified is APPR	d in item 4 OVED	REJECTED	in the manne	er prescrib	ed by
1 1	FLT. STANDARDS ECTOR	MANUFACTURER	/ ~	ECTION AUTHORIZ	_ _ -	OTHER (Specify)			
	DESIGNEE	REPAIR STATION	OF T	TRANSPORT INSPE AIRCRAFT	CTOR			<u>. </u>	
ATE OF APPR	ROVAL OR	CERTIFICATE OR DESIGNATION NO	ر ا	NATURE OF A	AUTHORIZEI 15 - A (2-5-5	D INDIVIDUAL	L		
120 Z	1, 1983	1244566	1 4	1. Note (m.)	- H Ju	01			
	37 (7-67)	☆ U.S. Government Print			• /			(8	3320)

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 (II Morrow) Apollo I Loran C receiver Model 602 and antennae P/N CI-121-SP with A-6 Preamplifier. Equipment mounted in Gessna factory provided brackets and locations. Unit wired per Morrow wiring schematic and per F.A.A. AC-43:13 chapters 1,2, and 3. Weight and balance change completed and entered in aircraft log. Equipment list reflects appropriate changes.

----End-----

__ ADDITIONAL SHEETS ARE ATTACHED

Form Approved Budget Bureau No. 04–R060.1

FOR FAA USE ONLY

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

OFFICE IDENTIFICATION

					ype all entries. See on of this form.	FAR	43.9	, FAR 43 Appe	endix B, and	H AC 43.9-1 (or	subsequent	revision t	hereof)
		MAKE	_					7	MODEL				77
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'` <i>'</i> '	mun.	SERIAL N								ITY AND REGIS	TRATION MA	ARK	
<u> </u>					1907	,				134626			<u>.</u>
١.,	· · · · · · · · · · · · · · · · · · ·		; sh	own	on registration certif	ficate)			-	As shown on regi		îcate)	
2. t	OWNER		90	o T	T D-bowte				1	2941 Boeing		25.0	
 			GE	ra_	ld F. Roberts		3 El	OR FAA USE ONI		Shingle Spr	ings CA	, 950	582
			_	_									
					4. Ü	NIT ID	ENTI	FICATION					TYPE
	UNIT		,		MAKE		<u> </u>	MODEL		SERIAL	NO.	REPAIR	ALTER-
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AIRF	RAME	<u>.</u>	•	****	***************	/As de	·scrib	ed in item 1 abo	nvelessiave	***********	**		
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Arru	IANCE	MANUFACTU	RER			1			ĺ				
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						6.	CONF	ORMITY STATEM		<u>-</u>			
		A. AGENCY'S	NA	·WE	AND ADDRESS		 	1	D OF AGE		C. CER	TIFICATE	NO.
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		0 Skywest					VV	FOREIGN CERTIFI					
		ard CA			1		XX CERTIFICATED REPAIR STATION MANUFACTURER 455				4556		
1	attach	nments hereto l	hav	re bed	nd/or alteration ma een made in accorda urnished herein is t	ance v	with t	unit(s) identi: the requiremen	its of Part 4	i3 of the U.S. F	4556 lescribed on ederal Aviati	the reve	erse or lations
		dat the annual	AL.	<i></i>	Illianoa novem		·	·					
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Purs the	suant Admi	to the authori	ty į	giver edera	n persons specified al Aviation Adminis	below	, the	unit identified	l in item 4 v	was inspected in REJECTED	the manner	r prescrib	ed by
	F	FAA FLT. STANDARI INSPECTOR		\Box	MANUFACTURER			PECTION AUTHORIZ		OTHER (Specify)			
ВУ		FAA DESIGNEE		xx	REPAIR STATION	-	OF T	ADIAN DEPARTMENTE INSPECTATION OF THE PROPERTY					
DATE REJEC		APPROVAL OR		A	CERTIFICATE OR DESIGNATION NO	 э.		NATURE OF A	UTHORIZED	INDIVIDUAL			
-				,	4556		1	7 / (11mlh			

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. D	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 Trans-Cal Model Dl20-P2-T, Blind Encoder TSO C 88. Unit was wired to the existing Transponder, Cessna 300, RT359A, TSO C74c, Class 1B. Unit was wired per manufacturers instructions. The system was checked to 20,000 feet.							
	All work done in accordance with AC43.13-2, Chapter 2 & 3.							
	·							
4	□ ADDITIONAL SHEETS ARE ATTACHED							

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

Form Approved Budget Bureau No. 04-R060.1
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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.

fo	r instruc	tions and dispositi	on of this form.									
		MAKE Clessna			MODEL 177B3							
1.	AIRCRAFT	SERIAL NO.			NATIONALITY AND REGISTRATION A			STRATION MA	ARK			
		17701907				U.S. A. N34626						
		NAME (As shown on registration certificate)			ADDRESS (As shown on registration certificate)							
2.	OWNER	Lorene E. Robertson					2941 1	Roeing Ro	ad.	e Ot	690	
		Gërald F. Robertson					-	e Spring	s, call	1. 95	002	
				•	s. H	OR FAA USE ON	LY			_		
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	-		4. Ur	יטו נוו	CMIII	ICATION	. <u></u>			5.	TYPE	
	UNIT	٨	MAKE			MODEL		SERIAL	NO.	REPAIR	ALTER- ATION	
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POWERPLANT							,		,		,	
PRO	PELLER					. 1						
APPI	LIANCE	TYPE MANUFACTURER						,		_		
		MANUFACTURER										
-				6. (CONF	ORMITY STATEM	ENT				_	
	Α.	AGENCY'S NAME	AND ADDRESS			B. KIN	D OF AGE	NCY	C. CER	TIFICATE	NO.	
	Geral	d F. Rober	rtson		X	U.S. CERTIFICAT	CERTIFICATED MECHANIC A&P			1015598		
		Boeing Ros		FOREIGN CERTIFICATED MECHANIC								
	Shine	le Springs	Springs, Calif.			CERTIFICATED REPAIR STATION MANUFACTURER			-			
D,	I certify	that the repair an	95682 nd/or alteration ma	de to	the		fied in item	1 4 aboye and	described on	the reve	erse or	
	attachme	nts hereto have be	en made in accorda urnished herein is t	ince w	zith 1	the requiremen	ts of Part 4	13 of the U.S. I	Rederal Aviat	ion Regu	lations	
DATE					SIG	NATURE OF A	UTHORIZED	INDIVIDUAL				
	Αυ	gust:25, 1	.979			Spran	ld 4	Table	lan	<i>}</i>	_	
			7. 1	APPROV	/AL	OR RETURN TO	SERVICE					
Pur the	suant to Adminis	the authority giver trator of the Federa	n persons specified la Aviation Adminis	below, tration	, the	unit identified lis 🛛 APPR	in item 4 o	was inspected in REJECTED	n the manner	r prescrib	ed by	
DV.		FLT. STANDARDS ECTOR	MANUFACTURER	X	INSP	ECTION AUTHORIZ	ATION	OTHER (Specify)				
BY		DESIGNEE	REPAIR STATION		OF I	ADIAN DEPARTME TRANSPORT INSPE AIRCRAFT	CTOR		.>			
	ATE OF APPROVAL OR CERTIFICATE OR SIGNATURE OF AUTHORIZED INDIVIDUAL DESIGNATION NO. 475770 L. Williams											
	, ت		773170		/	2 - 0	70 COL	-vices			_	

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 two light Novastar wing tip strobe systems as per Novastar 111 drawing No. 203611 and S. T. C. 2842WE. Aircraft equipment list revised. Installation was also completed as per FAA. AC43:13-1 Chapter 11, Section 1, 2, 3 and 7. AC 43:13-2 chapter 4, change 12. AC 43:13-2 chapter 2 and AC 20-21. Weight and balance revision recorded in aircraft log dated 8-25-79.

-----<u>END</u>-----

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

Form Approved Budget Bureau No. 04-R060.1

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. MODEL MAKE Cessna 177B AIRCRAFT NATIONALITY AND REGISTRATION MARK SERIAL NO. 17701907 N34626 U.S.A. ADDRESS (As shown on registration certificate)
2941 Boeing Road NAME (As shown on registration certificate)
Lorene E. Robertson 2. OWNER 0rGerald F. Robertson Shingle Springs, Calif. 95682 3. FOR FAA USE ONLY 4. UNIT IDENTIFICATION 5. TYPE ALTER-MODEL UNIT MAKE SERIAL NO. REPAIR ATION X AIRFRAME **POWERPLANT PROPELLER** TYPE APPLIANCE MANUFACTURER 6. CONFORMITY STATEMENT A. AGENCY'S NAME AND ADDRESS B. KIND OF AGENCY C. CERTIFICATE NO. U.S. CERTIFICATED MECHANIC Gerald F. Robertson A&P 1015598 FOREIGN CERTIFICATED MECHANIC 2941 Boeing Read, CERTIFICATED REPAIR STATION Shingle Springs, Calif. 95682 MANUFACTURER D. I certify that the repair and/or alteration made to the unit(s) identified in item 4 above and described on the reverse or attachments hereto have been made in accordance with the requirements of Part 43 of the U.S. Federal Aviation Regulations and that the information furnished herein is true and correct to the best of my knowledge. DATE August 25, 1979 7. APPROVAL FOR RETURN TO SERVICE Pursuant to the authority given persons specified below, the unit identified in item 4 was inspected in the manner prescribed by the Administrator of the Federal Aviation Administration and is APPROVED REJECTED OTHER (Specify) FAA FIT STANDARDS MANUFACTURER INSPECTION AUTHORIZATION INSPECTOR BY CANADIAN DEPARTMENT FAA DESIGNEE REPAIR STATION OF TRANSPORT INSPECTOR DATE OF APPROVAL OR CERTIFICATE OR SIGNATURE OF AUTHORIZED INDIVIDUAL REJECTION DESIGNATION NO.

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 two light Novastar wing tip strobe systems as per. Novastar 11 drawing No. 203611 and S.T. C. 2842WE. Aircraft equipment list revised. Installation was also completed as per FAA. AC-43:13-1 Chapter 11, Section 1, 2, 3 and 7. AC43:13-2 Chapter 4, change 12. AC 43:13-2 chapter 2 and AC 20-21. Weight and balance revision recorded in aircraft log dated 8-25-79.

----END----END-----

MAJOR REPAIR AND ALTERATION

Form Approved Budget Bureau No. 04-R060.1

FOR FAA USE ONLY

		(Airframe,	Powerplant, Pr	opel	ler, or Applian	ice)	C	OFFICE IDENTIF	ICATION	
II fo	NSTRUCT	rIONS: Print or t	ype all entries. See	FAR	43.9, FAR 43 Appe	ndix B, and	AC 43.9-1	(or subsequent	revision t	hereof)
		MAKE				WODEL				<u>-</u>
,	AIDCOAET	Cessr	na				177B			
1.	AIRCRAFT	SERIAL NO.				NATIONAL	ITY AND RE	GISTRATION M	ARK	
		17701	1907		U.S.		34626			
	·	NAME (As shown on registration certificate)				ADDRESS (As shown on	registration certi	ificate)	
2. OWNER		1	E. Robertson		or 2941 Boeing Rd.					
		Gerald F	Robertson				le Spri	ngs, Cal	11. 9 <u>.</u>	26.62
_				3	. FOR FAA USE ON	LY				
			4. UN	IIT IDE	NTIFICATION				5.	TYPE
	UNIT	١ .	AAKE		MODEL		SEF	RIAL NO.	REPAIR	ALTER-
				l	· <u>-</u>	·			REFAIR	ATION
AIR	FRAME	******		As des	cribed in item 1 abo	ove)******	***********	****		X
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APPI	LIANCE	MANUFACTURER	Sipp	5	2 200					
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	A. A	GENCY'S NAME	AND ADDRESS	1		D OF AGE	NCY	C. CEI	RTIFICATE	NO.
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			Rd. ngs, Calif.	[FOREIGN CERTIF	CATED MECHA	ANIC		A t÷	
					CERTIFICATED RE	PÂIR STATION				
	:3	<u>Av</u>	95682		MANUFACTURER					- -,
D.	attachmen	its hêreto have be	nd/or alteration ma- en made in accorda urnished herein is t	nce w	ith the requiremen	ts of Part 4	3 of the U.S	nd described o S. Federal Avia	n the reve tion Regul	erse or lations
ATE		Q)			SIGNATURE OF A	UTHORIZED	INDIVIDUA		•	
	Tabo	e 25, 1979		ŀ		11/	4 6		1-	
	Jun	e 25, 1979			()eral	<u> </u>	<u> </u>	berl	2000	
	· .'					SERVICE				
Pur the	suant to t	he authority given ator of the Federa	n persons specified la al Aviation Administ	below,	the unit identified and is APPRO	in item 4 N	REJECTED		er prescrib	ed by ∵~
3Y	FAA F INSPE	ELT. STANDARDS ECTOR	MANUFACTURER	$ \wedge $	INSPECTION AUTHORIZ		OTHER (Specify)		
		DESIGNEE	REPAIR STATION		CANADIAN DEPARTMEN OF TRANSPORT INSPEC OF AIRCRAFT	TOR	····	 -		
ATE EJEC	OF APPR	0/79	CERTIFICATE OR DESIGNATION NO		SIGNATURE OF A		LELL			

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. D	ESCRIPTION OF WORK ACCOMPLISHED (If more space is required, attach additional sheets. Identify with air- raft nationality and registration mark and date work completed.)
	Removed item 218A in original equipment list (hourmeter)
	Installed Collins Micro Line nav-comm, VOR indicator, and
	Cessna Audio panel. Equipment mounted in Cessna factory
	provided brackets and locations per Cessna factory wiring
	schematics and per FAA AC 43:13, chapters 1,2, & 3. Weight
	and balance change completed and entered in Wt.& Bal. data.
	Nothing Follows
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	•
	ADDITIONAL SHEETS ARE ATTACHED

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

Form Approved Budget Bureau No. 04–R060.1

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. MODEL MAKE Cessna 177B 1. AIRCRAFT NATIONALITY AND REGISTRATION MARK SERIAL NO. 17701907 U.S.A. N34626 ADDRESS (As shown on registration certificate) NAME (As shown on registration certificate) Lorene E. Robertson or 2941 Boeing Rd. 2. OWNER Gerald F. Robertson Shingle Springs, Calif. 95682 3. FOR FAA USE ONLY 4. UNIT IDENTIFICATION 5. TYPE ALTER-UNIT MAKE MODEL SERIAL NO. REPAIR ATION **AIRFRAME POWERPLANT PROPELLER** TYPE **APPLIANCE** MANUFACTURER 6. CONFORMITY STATEMENT A. AGENCY'S NAME AND ADDRESS B. KIND OF AGENCY C. CERTIFICATE NO. A&T 1015598 W. U.S. CERTIFICATED MECHANIC <u>a_</u>F...Robertson FOREIGN CERTIFICATED MECHANIC Boeing Rd. CERTIFICATED REPAIR STATION Shingle Springs, Calif. MANUFACTURER D. I certify that the repair and/or alteration made to the unit(s) identified in item 4 above and described on the reverse or attachments hereto have been made in accordance with the requirements of Part 43 of the U.S. Federal Aviation Regulations and that the information furnished herein is true and correct to the best of my knowledge. DATE June 25, 1979 APPROVAL FOR RETURN TO SERVICE Pursuant to the authority given persons specified below, the unit identified in item 4 was inspected in the manner prescribed by the Administrator of the Federal Aviation Administration and is APPROVED REJECTED OTHER (Specify) FAA FLT. STANDARDS MANUFACTURER INSPECTION AUTHORIZATION INSPECTOR BY CANADIAN DEPARTMENT OF TRANSPORT INSPECTOR FAA DESIGNEE REPAIR STATION OF AIRCRAFT DATE OF APPROVAL OR CERTIFICATE OR SIGNATURE OF AUTHORIZED_INDIVIDUAL

DESIGNATION NO.

Welener

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.

Identify with air-

Removed item 2T8A in original equipment list (hourmeter),
Installed Collins Micro Line nav-comm, VOR indicator, and
Cessna Audio panel. Equipment mounted in Cessna factory
provided brackets and locations per Cessna factory wiring

8. DESCRIPTION OF WORK ACCOMPLISHED (If more space is required, attach additional sheets.

craft nationality and registration mark and date work completed.)

and balance change completed and entered in wt. & bal. data.

schematics and per FAA AC43:13 chapters 1, 2, &:3. Weight

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

Form Approved Budget Bureau No. 04–R060.1

FOR FAA USE ONLY

OFFICE IDENTIFICATION

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INSTRU for instru	CTIONS: Print or t ctions and dispositi	type all entries. See ion of this form.	FAR 4	13.9, FAR 43 Appe	endix B, and	AC 43.9-1 (or	r subsequent	revision t	hereof)		
	MAKE			-	MODEL				•		
- PIDCDAE	Cessi	Cessna				177B Cardinal					
1. AIRCRAF	SERIAL NO.					TY AND REGIS		ARK.	 		
	1770	1907		1	U.S.			Misse,			
			-441			0 -1-1					
^ OWNED	NAME (AS SHOWN	on registration certific . Robertson	cate) Or			As shown on reg Boeing R		ticatej			
2. OWNER		 Robertson 		, 				± P O	E480		
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		4. UNI	TINE	NTIFICATION				Ι,			
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UNIT	٨	MAKE		MODEL	1	SERIAL	NO.	REPAIR	ALTER-		
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AIRFRAME	******	•••••••• (A	is desc	ribed in item 1 abo	ove)	*********	**		X		
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POWERPLAN	11				}						
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Α.	AGENCY'S NAME	AND ADDRESS		B. KINI	D OF AGEN	ICY	C. CER	TIFICATE	NO.		
 Geral	d F. Robert	son	_ [X U.S. CERTIFICATI		A&P 10	<u>15598</u>				
	Boeing Rd.	·		FOREIGN CERTIFICATED MECHANIC							
		Calif. 9568	82 F	CERTIFICATED RE	PAIR STATION						
D112:10.	10 pp=110~,	VG211 / //	⁻ ├	MANUFACTURER				1			
			L				L				
D. I certif	y that the repair ar	nd/or alteration mad een made in accordan	e to t	he unit(s) identif	fied in item	4 above and	described or	the teve	rse or		
and the	t the information f	urnished herein is tru	ue and	d correct to the be	est of my kn	owledge.	edetai waiar	ion negu	lations		
					<u>.</u>						
DATE T.	:• ^^ 1 OF	· 	•	SIGNATURE OF A	UTHORIZED	INDIYIDUAI.		*	-		
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				Derald	ZZZ	oberto	2000				
		7. AP	PROVA	AL FOR RETURN TO	SÉRVICE	.					
Pursuant to	the authority give	n persons specified be	elow,	the unit identified	in item 4 w	as inspected in	n the manne	r prescrib	ed by		
Pursuant to the authority given persons specified below, the unit identified in item 4 was inspected in the manner prescribed the Administrator of the Federal Aviation Administration and is APPROVED REJECTED											
FA	A FLT. STANDARDS	CTURED	\\\ \.	NSPECTION AUTHORIZA		OTHER (Specify)					
IN:	INSPECTIOR MANUFACTURER \ \ INSPECTIC				ATION						
BY		1	/ \	CANADIAN DEPARTMENT							
FA	A DESIGNEE	REPAIR STATION		OF TRANSPORT INSPEC	CTOR						
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EJECTION	PROVAL OR	CERTIFICATE OR DESIGNATION NO.		IGNATURE OF A							
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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.

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8. DESCRIPTION OF WORK ACCOMPLISHED (If more space is required, attac	h additional sheets. Identify with air-
craft nationality and registration mark and date work complete	
Installed a Hoskins Britestar Sing belly skin at station 210 as per manufainstructions. Installed a Cessna switch breaker in panel and position provided Additional electrical load of 1.6 amps	acturers installation on and 5 amp. circuit by aircraft factory.
approved system capacity. All work per	
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Peraftment of Transportation—federal Aviation Administration

Supplemental Type Certificate

Number SA5317SW-D

This certificate, issued to

S-TEC Corporation Rt. 4, Bldg. 946

Wolters Industrial Complex Mineral Wells, TX 76067

cortifies 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 23 of the Federal Aviation

Regulations.

Criginal Product - Type Certificate Number: A13CE

Make:

CESSNA

Model: 177, 177A, AND 177B

Description of Type Design Change:

Installation of S-TEC System 40/50 Single and Two Axis Automatic Flight Guidance Systems, Model ST-243-40/50, according to Bulletin No. 343, dated 5-01-84 and Master Drawing List No. 92275, dated 5-01-84 and/or later FAA Approved revisions of the above data, (14 Volt System).

Limitations and Conditions:

1. FAA Approved Supplemental Flight Manual, P/N 89447, dated 5-10-84 is required for Cessna Models 177, 177A and 177B, S/N 17702313 and below for S-TEC System 40, and/or later FAA Approved revisions of the above supplement.

(See Continuation Sheet, Page 2, a part of this STC).

This certificate and the supporting data which is the basis for approval shall remain in effect until surrendered, suspended, rowked, or a termination date is otherwise established by the Administrator of the Federal Aviation Administration.

Date of application .

5-4-84

Date reissued:

Date of issuance:

5-10-84

Date amended:



By direction of the Administrator

Flords Mr. Holdenson

Harold W. Holdeman DAS Staff Coordinator, DAS 5 SW

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

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United States of America

Department of Transportation—federal Aviation Administration

Supplemental Type Certificate

(Continuation Sheet)

Number SA5317SW-D

Limitations and Conditions (con't)

- 2. FAA Approved Supplement to Pilot's Operating Handbook and/or FAA Approved Airplane Flight Manual, P/N 89448, dated 5-10-84 is required for Cessna Model 177B, S/N 17702314 through S/N 17702672 for S-TEC System 40, and/or later FAA Approved revisions of the above supplement.
- 3. FAA Approved Supplemental Flight Manual, P/N 89452, dated 5-10-84 is required for Cessna Models 177, 177A, and 177B, S/N 17702313 and below for S-TEC System 50, and/or later FAA Approved revisions of the above supplement.
- 4. FAA Approved Supplement to Pilot's Operating Handbook and/or FAA Approved Airplane Flight Manual, P/N 89453, dated 5-10-84 is required for Cessna Model 177B, S/N 17702314 through S/N 17702672 for S-TEC System 50, and/or later FAA Approved revisions of the above supplement.
- 5 Compatability of this modification with other previously approved modifications must be determined by the installer.

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United States of America

Department of Transportation — Federal Aviation Administration

Supplemental Type Certificate

Number **SA2457CE**

This certificate, issued to

William J. Barton 429 North St. Francis Wichita, KS 67202

certifies that the change in the type design for the following product with the limitation's and conditions

therefor as specified hereon meets the airworthiness requirements of Part 23

Federal Aviation

Regulations.

Original Product - Trype Certificater Number:

Make: Cessna

Model: 177, 177A, and 177B, S/N 17700001 through

Description of Type Design Change: Installation of fuel inlets and caps in accordance with Barton Drawing List No. WW-1 dated November 7, 1988, or later "FAA Approved" revisions.

Limitations and Conditions: This approval should not be extended to other specific airplanes of this model on which other previously approved modifications are incorporated, unless it is determined that the interrelationship between this change and any of those other previously approved modifications will introduce no adverse effect upon the airworthiness of that airplane.

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 of the

Federal Aviation Administration.

Date of application: November 8, 1988

Date of issuance: April 26, 1989

Sale ressued :

Tole amended :

By direction of the Administrator

Lawrence A. Herron, Manager

Wichita Aircraft Certification Office

(Title)

Any alteration of this certificate 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.

FAA FORM 8110-2 (10-86)

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