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	OMB No. 212 00 Exp: 771/201	Electronic Tracking Number	
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US Departm of Transport Federal / Admini		MAJO (Airframe, F	OR REPAIR AN Powerplant, Pro	D ALT	ERATION r, or Applia	nce)	ForE	Use Only		
INSTRUCIO Instrucio such viola	ons (49 U.S	ition of this form i.C. §46301(a))	. This report is rec	CFR §4 quired by	13.9, Part 43 A y law (49 U.S.C	C. §44701). Fallure to	report can result	uent revision thereof) for in a civil penalty for each		
4	Nationalit	y and Registration N55804	on Mark		Serial No. 28R-7335291					
. Aircraft	Make	iper	They wan		Model Arrow Ser			⁶⁵ PA-28R-200		
			stration certificate)		Address (As shown on registration certificate)					
	The second second		Flying Club I	nc	Address PO Box 534					
. Owner					Zip 08701-0534 Country USA					
				3. F	or FAA Use O		Country			
		# 4.								
4. T	уре			Tra .	Unit Identification Model			Serial No.		
Repair	Alteration	Unit	Pleas	Make		(As described in Item 1 above)		28R-7335291		
	×	AIRFRAME	A. Stager	Piper		IO-360-C1C		L-10609-51A		
	×	POWERPLAN	ιτ Lyc	omi	ng	10-300-010		L-10000 0 17		
1		PROPELLER	Hibre.							
		1	Туре		17.		n.*			
1		APPLIANCE	Manufacturer							
					Conformity St			10		
ency	s Name and A	Address			3. Kind of Ager	cated Mechanic		anufacturer		
Pre	emier Aero LLC/	Cameron Bauer		_ ×		rtificated Mechanic		tificate No.		
W1 -19 -	Millistone River Rollsborough	oed .	State NJ		Certificated Repair Station			3844654		
OBS	RAA C	ountry USA		[Certificated Maintenance Organizatio					
D. I cert	tify that the re		ration made to the rith the requirement at to the best of m			m 5 above and desc S. Federal Aviation		that the information		
	range fuel	Si	gnature/Date of A	uthorize	ed Individual		1/1	4/16/2024		
			0	7. App	roval for Retu	irn to Service	ins ited in	the manner prescribed b		
Pursuant Administ	t to the authors of the Fe	nority given pe ederal Aviation	ersons specified Administration and	d is		x Approved	one App	roved by Canadian		
	FAA Fit. Star Inspector	ndards	Manufacturer				Othe Specify)	of Transport		
BY	FAA Designe		Repair Station	X	Inspection A	uthorization	-	11/1/2011		
certificate designation	or 3844	654 s	ignature/Date of A	uthoriz	ed Individual			4/16/2024		



AIRFRAME INSTRUCTIONS FOR CONTINUED AIRWORTHINESS

Document No. SF2005, Revision C

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No. SF2005,

Date:	Description:	Approved
2/13/2018	Initial release.	By:
27/2019	Added placerd and AFMS increation did it	RVC
		RVC
2022	Updated for dual SIM installations,	RVC
	The state of the s	RVC

(2)
US Department
of Transportation Federal Aviation
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MAJOR REPAIR AND ALTERATION (Airframe, Powerplant, Propeller, or Appliance

Form Approved OMB No. 2120-0020 11/30/2007	Electronic Tracking Number
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insmich	ons and dispusions and dispusions and dispusions.	S.C. §4630	1(a))	. This report is re-	CFR § quired I	343. by I	.9, Part 43 App law (49 U.S.C.	endix B, and A §44701). Failur	C 43.9-1 e to report	(or s	subsequent re result in a civ	vision thereof) for il penalty for each
	N5580	ity and Reg 4	gistratio	n Mark			5.0	erial No. 8R-7335291				
1. Aircraft	Make PIPER					Model Series						
	Name (As shown on registration certificate)							A-28R-200		-44	16-41	ALLER CHARLES AND A CO.
_		outh Area						dd ress (As sho ddress P.O. Box		stration	on certificate)	
. Owner			-									State N.J.
				-	Zip <u>08701-0534</u>							
				5 1 1 1 2 1 4 1 4 1 4 1 4 1 4 1 4 1 4 1 4						'	P.A	
4. Ty	уре			<u></u>	5.	Un	it Identification	n				
Repair	Alteration	Un	it	1-311-31	Make			,	Model			Serial No.
	V	AIRFRAM	ΛE				<u>F</u>	(As described	in Item 1 a	above	е)	-4
		POWER	PLANT	y decrees	. :		names)	m 5 - 58 i	y 1074 dd	MA	new Part of	
		PROPEL	LER	a hersine i i	l, axa	5	year his		100	41 6	7 32	×
		APPLIAN	CE	Type Manufacturer								are a
	A				6. C	onf	formity Staten	nent	1	W.	Igneria.	1,000
gency's I	Name and Ad	Idress					nd of Agency					
Three	Crown Avid	onics, Inc			-	_	U. S. Certificated		-	1	Manufacture	
	ex Airport, 5	3 Rt. 639		State N.J.	- -,		Foreign Certificated Rep			10.	defificate N	0.
Susse 07461		ntry U.S.A		State 14.J.	- 🗸	-	Certificated Mair		zation	-1	3014L	ST-ST
l certify	that the rep een made in a ed herein is to nge fuel	air and/or	alterati e with rrect to	on made to the the requirements the best of my b ture/Date of Auti	knowled	ide rt 4:	entified in item 3 of the U.S. F	5 above and	describ	on s	everse of that the incommend that the incommendation in the incomm	
p. B	L		1	ungen	Appro	wa	I for Return to	Service		-		
ursuant t	to the autho	rity given eral Aviation	perso	ns specified be ninistration and is	low, th	he	unit identified	in item 5 w Approved	vas insp Rejec	led ted	in the man	ner prescribed by the
. F/	AA Flt. Stand			ufacturer		Aair	ntenance Orga	nization	Dep	artme	Approved by Ca ant of Transport	anadian !
III	Spooto				_	_			Other (Sp	ecity	V)	

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	-	-	C	-
N		7 B		

i balance or operating limitation changes shall be entered in the appropriate aircraft record. An alteration must be 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 all (If more space is required, attach additional sheets.	ircraft nationality and registration mark and da	ite work completed.)
	N55804	December 18 2015
	Nationality and Registration Mark	Date
No equipment was removed from the		
INSTALLED THE FOLLOWING EQUIPMENT IN THE 1. Garmin GDL-88 Automatic Dependant Surveilland 2. RAMI 74 Blade Antenna (960-1220 MHz) located 3. ICARUS Model U3000 Altitude Serilizer located at	be Broadcast System located at F.S. at F.S. # 209.0	188.0
The GDL-88 was mounted on the equipment shelf at equipment, Garmin GNS-430W GPS WAAS COM/N 30A via an ICARUS U3000 Serilizer.	ft of the battery box and interfaced w AV/ILS Receiver, GTX-327 Transpo	rith the following existing nder, Trans-Cal SSD120
The installation was performed i.a.w. STC SA021199 Rev. 8 (Oct15) as well as with AC 43.13-2A chapt as reference Garmin P/N 190-00356-08 and ICARUS	ter 2 section 202. The following Insta	Illation manuals were use
The total electrical load is not exceeding 80% of the g	enerated capacity.	
EMI and RFI test analyses were performed with no a	adverse effect on the aircraft system	noted.
The Weight and Balance as well as the Equipment L	ist were updated and entered in the	flight manual.
Log Book entry was made this date.		
A copy of Instruction to continued airworthiness Gar Aircraft's maintenance records.	rmin Document 190-00356-65 Rev.	A was attached to the
Log Book entry was made this date.		
Datail afthir made is first at this control of the	Nork Order No. 06541	
Detail of this work is filed at this repair station under V	VOIR Older 140. 00341.	

CO.



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

Form Approved OMB No. 2120-0020

For FAA Use Only

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 there disposition of this form. This report is required by lew (49 U.S.C. 1421). Failure to report can result in a civil penalty not to exist on the content of the	eof) for instructions and xceed \$1000 for each such

1. Aircraft	Make PIPER		Model PA-28R-200					
	Serial No. 28R-	7335291	Nationality and Registration Mark N55804					
2. Owner	Name (As shown on re MONMOUTH AR	egistration certificate) REA FLYING CLUB INC.	Address (As shown on registration certificate) PO BOX 2414 FARMINGDALE NJ 07727-2414					
		3. For FAA L	Jse Only	201 12 12 1	1963 IJI			
		The state of the state of the		. 1 572-11	A.			
	4.	Unit Identification		5. Type	Tallandian			
Unit Make		Model	Serial No.	Repair	Alteration			
Airframe	(As	s described in Item 1 above	9)	. ATT . PW . 78"	X			
Powerplant	A DESCRIPTION OF THE PROPERTY		ar , or means of the		TO SEE			
Propeller	State Alban a Court							
Торыны	and a second of the second of							
ppliance	Type	-		10				
	immos , ,	6. Conformity	Statement	C. Certificate No	<u> </u>			
	lama and Address	B. Kind of Agency			84509			
Agency's	Name and Address	X U.S. Certifica	ated Mechanic	-	•			
JOHN M BI	ז טאע	Foreign Cert	ificated Mechanic	-				
HELMETTA	NJ 08828	Certificated I	Repair Station	-				
		Manufacture		nd described on th	e reverse or			
1	the renair and/or alte	eration to the unit(s) identi	fied in item 4 above an	of the U.S. Fede	ral Aviation			
JI CERTITY (D	nereto have been made	eration to the unit(s) identi le in accordance with the r n furnished herein is true :	equirements of Fall 4.	of my knowledge				
ttachments I	and that the information			10	1			
ttachments l	nit.	Signature of Auturulate		Burde	y			
ittachments i Regulations &				0.	,			
ttachments la tegulations a la termina de la	2012	JOHN M BUND						
ttachments la tegulations a la termina de la	2012		etura to Service	was inspected in	the manner			
ttachments it degulations a ste APRIL 25, 2		7. Approval for Re		was inspected in Approved	the manner Rejected			
ttachments it degulations a ste APRIL 25, 2		7. Approval for Re	unit identified in items histration and isX_		the manner Rejected			
ttachments it tegulations a sete APRIL 25, 2 fursuant to the rescribed by	ne authority given pers the Administrator of the	7. Approval for Resons specified below, the the Federal Aviation Admir	nistration and isX_	on Other (spe	the manner Rejected			
ttachments it tegulations a ste APRIL 25, 2 fursuant to the rescribed by		7. Approval for Re		on Other (spe	the manner _Rejected			

NOTICE

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 conformits with the content 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.)

Piper PA28R-200 serial # 28R7335291 N55804 April 25, 2012 Total time 7596.4

- Installed William J. Stephenson "Wing-Ding" door stop.
- This installation is approved for installation in accordance with STC# SA1075SO.
- STC# SA1075SO was issued to William J. Stephenson on May 18, 1979. 3
- Installation in accordance with STC SA1075SO Description of type Design change.
- This Part has no obvious effects on any other aircraft system.
- A copy of this STC has been added to the permanent records of this aircraft.
- No change to aircraft weight and balance from this alteration.
- Logbook entries were made reflecting this installation.
- Instructions for continued airworthiness will be found in the installed equipment manufacturer's maintenance manual and incorporated into the current aircraft inspection program. Otherwise, the scope and detail of FAR 43, Appendix D will apply.

END-

ENTER EXTENDED SOUTH THE STORES MAKE STATE AN OWN CHAN TOWN

Number SA107550

This contificate issued to William J. Stephenson

certifies that the change in the type design for the following product with the limitations and condition therefor as specified hereon much the sirverthiness requirements of Port 3 of the Civil Air Regulations

Original Product - Typo Cartificator Number: 2A13

Make: Piper

Model: PA-28-151, PA-28-161, PA-28-181, PA-28R-200,

PA-28R-201, PA-28-235, and PA-28R-201T

Description of Trypo Design Change:

"Wing-Ding" door stop to be installed using existing screws (Piper P/N 415 309, MS27039-0809) on leading edge of right wing at inboard side of fuel cell (W.S. 57.00).

Limitations and Gonditions: This approval applies to the above listed models and should not be extended to other aircraft of this model on which other previously approved modifications are incorporated unless it is determined by the installer that the interrelationship between this change and any of those other previously approved modifications will introduce no adverse affect upon the airworthiness of that aircraft.

This contificate and the supporting date which is the basis for approval shall romain in effect until surrendered suspended oneked on a lormination date is athornoise satablished by the Administrator of the Federal Aviation Administration

Date of application: February 8, 1979

Sale risewed:

Dalo of issuance.

May 18, 4979

Salo anne noted :



By direction of the Administrator Engineering and Manufacturing Branch Flight Standards Division



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

-	Make PIPER			Model	PA 28R - 200					
I. Aircraft	Serial No. 28R -	7335291	den en elemente de la companya de l	Nationality a	Nationality and Registration Mark N55804					
. Owner	Name (As shown on reg MONMOUTH ARI		PO BOX	Address (As shown on registration certificate) PO BOX 2414 FARMINGDALE NJ 07727-2414						
			3. For FAA	Use Only						
	4 1	Jnit Identifi	cation		5. Type					
Unit	Make		Model	Serial		air Alteration				
Airframe	(As	described i	n Item 1 abov			Х				
Powerplant						,				
Propeller		, 2			-					
Appliance	Туре			Maria						
	Mnfctr		6 Conformi	y Statement	a medad .					
Access de A	James and Address		(ind of Agend		C. Certifica	ite No.				
MARK E PR	Name and Address	X		cated Mechanic		129529515				
	URNPIKE ROAD		Foreign Certificated Mechanic							
CALIFON N	NJ 07830		Certificated Repair Station							
			Manufacturer							
attachmente	at the repair and/or alte hereto have been made and that the information	e in accorda n furnished	ance with the herein is true	e and correct to t	Part 43 01 1116 0.0.	1 odoral / Widthorn				
Date Mai	rch 11, 2011	Sign N	ature of Authori	zed Individual						
		7. A	pproval for	Return to Service	C8					
Pursuant to to prescribed b	the authority given pers y the Administrator of th	ons specific ne Federal	ed below, the Aviation Adm	e unit identified in inistration and is	n item 4 was inspect s <u>X</u> Approved _	ed in the manner Rejected				
	A Fit. Standards Inspector	Manufactu	rer	X Inspection A	Authorization Other	er (specify)				
FA	oundards mopector			Name and Address of the Owner, where the Party of the Owner, where the Party of the Owner, where the Owner, which is the O						
FA	A Designee	Repair Sta	ation	Person App Canada Ain Signature of Authori	or. by Transport worthiness Group					

Weight and balance or operating limitation changes shall be entered in the appropriate aircraft record. An alteration must be compatible with a strength of 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.)

Piper PA28R-200 serial # 28R-7335291 N55804 March 11, 2011 Tach Time 1553.1

- 1. Installed Bogert Aviation battery box modification by installation of removable panels on the battery
- 2. Replaced the original #1 aluminum cable assemblies between the battery to ground and battery to
- 3. These cables were replaced with #1 gauge copper cable assemblies which were manufactured by Bogen
- 4. This installation is approved for installation in accordance with STC# SA4008NM and SA3531NM.
- 5. STC# SA4008NM was issued to Bogert Aviation on August 17, 1987 and last amended April 12, 2004.
- 6. STC# SA3531NM was issued to Bogert Aviation on July 15, 1986 and last amended April 1, 1999.
- 7. Installation in accordance with Bogert Aviation Installation Instructions 1-1, revised October 14, 2003
- 8. A copy of this STC and AML has been added to the permanent records of this aircraft.
- 9. STC# SA3531NM is compatible with STC# SA4008NM.
- 10. No change to weight and balance.
- 11. Logbook entries were made reflecting this installation.
- 12. Instructions for continued airworthiness will be found in the installed equipment manufacturer's maintenance manual and incorporated into the current aircraft inspection program. Otherwise, the scope and detail of FAR 43, Appendix D will apply. -END-

Becentinent of Transportation—Nederal Autation Administration

Supplemental Type Certificate

Number SA3531NM

This cartificate, issued to

Bogert Aviation 3606 N. Swallow Ave. Pasco, WA 99301

wifes that the change in the type design for the following product with the limitations and conditions derfor as specified hereon mosts the airworthiness requirements of Part * of the * Regulations.

Ariginal Product-Type Cartificate Number:

Model

*See attached FAA Approved Model List (AML) No. SA3531NM for a list of approved alroraft models and applicable airworthiness regulations.

Suscipition of the Type Design Change: Installation of copper electrical cables in accordance with Bogert Aviation installation instructions as listed on AML No. SA3531NM, amended April 1, 1999, or letter FAA approved revielon.

Amitations and Conditions: 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 by the installer 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 certificate and FAA AML No. 8A3531NM must be maintained as part of the permanent records for the modified alroraft.

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.

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

Date of application:

May 27, 1986

Date of Winance:

July 15, 1988

Bate relssued:

September 30, 2005

Dats amended:

April 10, 1989; April 1, 1999



Acting Manager, Seattle Aircraft Certification Office

Any elleration 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. sumo estate el America

Dependent of Transportation—Rederal Autotion Administration

Supplemental Type Certificate

Number SA4008NM

Sis certificate, issued to

Bogert Aviation 3606 N. Swallow Ave. Pasco, WA 99301

whifies that the change in the type design for the following product with the limitations and conditions perfor as specified hereon meets the airworthiness requirements of Part * of the * Regulations.

Briginal Product—Type Certificate Number:

*See attached FAA Approved Model List (AML)

Number SA4008NM for list of approved airplane

models and applicable airworthiness regulations.

Description of the Type Design Change: Installation of removable panels on the battery box sides in accordance with applicable Bogert Aviation Drawing listed on FAA approved AML SA4008NM, dated April 12, 2004, or later FAA approved revision. This installation does not require specific continued airworthiness instructions. Federal Aviation Regulations Part 43 and applicable Owner's Manual are adequate to ensure Continued Airworthiness of this modification.

Note: This is compatible with STC SA3531NM.

Similations and Conditions. Approval of this change in type design applies to the airplane 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 certificate and FAA AML No. SA4008NM, dated April 12, 2004, or later FAA approved revision must be maintained as part of the permanent records for the modified alrcraft.

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 of the Federal Aviation Administration.

Date of application:

May 23, 1986

Date reissued.

September 30, 2005

Late of issuance:

August 17, 1987

Date amended.

April 12, 2004



Acting Manager, Seattle Aircraft Certification Office

Any atteration 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.



U.S. 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 \$1000 for each such violation (Section 901 Federal Aviation Act of 1958)

Atanas	Make PIPE	R		Model PA	28R - 200			
1. Aircraft	Serial No. 28	R - 7335291		Nationality and Reg	distration Mark	N55804		
2. Owner	Name (As shown on MONMOUTH A	registration certificate) REA FLYING CLUE	INC	Address (As shown PO BOX 2414	on registration certi	ficate)		
		3. Fo	or FAA Use (Only				
Unit	Make	. Unit Identification			5. Type			
Olik	Make	Model		Serial No.	Rep	air Alteration		
irframe	(/	As described in Item	1 above)		-	X		
owerplant								
ropeller	3 1 1							
ppliance	Туре	1 1 1 1 1 1 1 1 1		A CONTRACT		7		
	Mnfctr					1		
			nformity Sta	tement	KENTYS I			
	ame and Address	B. Kind of		41-	C. Certific	ate No.		
JOHN M BUN 1 AVE A	NUY	***************************************	X U.S. Certificated Mechanic			80584509		
HELMETTA N	NJ 08828			ted Mechanic		4		
			ificated Repa	air Station				
. I certify that	the repair and/or a	Iteration to the unit		in item 4 charre	and day "	1		
rraci il lel 112 lie	reto nave been ma	ade in accordance vion furnished hereir	vith the requi	rements of Dart	12 of the 11 C	Cadasal A. dation		
ate Augus	st 20, 2010		f Authorized Indi M BUNDY	11 /	l Brug	ls		
		7. Approv	al for Retur	n to Service	2	<i></i>		
rursuant to the prescribed by t	e authority given pe the Administrator of	ersons specified bel the Federal Aviation	ow, the unit on Administr	identified in item ation and is <u>X</u>	4 was inspec	ted in the manner Rejected		
FAAF	it. Standards Inspector	Manufacturer	X			er (specify)		
	Designee		^			or (aboon))		
	9	Repair Station		Person Appr. by T	ransport			
	Pr Rejection C	Sertificate or Designation	No. lo	Person Appr. by T Canada Airworthin ure of Authorized Ind	ess Group	Budy		

United States of America

Department of Transportation—Federal Aviation Administration

Supplemental Type Certificate

Number SA1713GL

This cortificate, issued to Knots 2U, Ltd. 3106 Bieneman Road Burlington, WI

cortifies that the change in the type design for the following product with the limitations and conditions

therefor as specified hereon meets the aireverthiness requirements of Part 3 of the Civil Air

Regulations. (See Type Certificate Data Sheet No. 2A13 for complete certification basis)

Original Product - Trype Certificater Number: 2A13

Make: Piper Aircraft Corporation

Model: PA-28R-180, PA-28R-200, PA-28R-201, PA-28R-201T, PA-28RT-201, PA-28RT-201T

Description of Trypo Design Change:

Installation of Gear Lobe Fairings in accordance with the Knots 2U, Ltd. Gear Lobe Fairing Installation Manual for the Piper PA-28, Revision C, dated June 1, 1997, or later FAA approved revisions.

Limitations and Conditions:

Compatibility of this design change with previously approved modifications must be determined by the installer.

This cortificate and the supporting date which is the basis for approval shall romain in effect until surrondored, suspended, rowaked, or a termination date is otherwise established by the Administrator of the Federal Aviation Administration.

Date of application: February 26, 1992

Sale ressard: May 7, 1997

Date of issuance: March 23, 1992

Sale amended: July 15, 1997

By direction of the Administrator

Gregory J. Michaloskanisenior Aerospace Engineer

Airframe & Administrative Branch

Chicago 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.

Repartment of Eransportation - Mederal Abiation Administration

Supplemental Type Certificate

(Continuation Sheet)

Number SA615PA Date Amended June 17, 2005

FLIGHBILITY LIST June 18, 1999

FLIGHER	JTY LIST June 18, 1999	
AIRCRAFT MANUFACTURER	MODEL	TYPE CERTIFICATE
Piper		A-691
. 401	**PA-11	A-691
	**PA-12	A-780
	**PA-14	A-797
	**PA-15	A-800
	**PA-16	1A1
	**PA-17	A-805
		1/2
	**PA-18 Series, PA-19 **PA-20	1/4
		1A6
	••PA-22 Series	2.48
	**PA-25 Series	1650
	PA 22 PA 23 1/0 4PA 23 235	1A10
	PA-23, PA-23-160, *PA-23-235	
	*PA-23-250, *PA-E23-250	
		1A15
the second secon	PA-24, -24-250, -24-260.	
	-24-400	
	D4 00 140 00 150 28 151 28-16	0. 2A13
	PA-28-140, -28-150, -28-151, -28-160	
	-28-161, -28-180, -28-235, -28S-160	200
	-28R-180, -28S-180, -28-181, -28R-2	,00,
	-28R-201, -28R-201T, -28RT-201,	
	-28RT-201T, -28-201T, -28-236	
		AIEA
	PA-30, PA-39	5.5
		A8EA
	PA-31P	r. Andrews
		A20SO
	PA-31, PA-31-300, 325, 350	0=0000000000000000000000000000000000000
	1 5 5 50 222	A3SO
	PA-32-260, -300, -32S-300	,,,,,,

NOTES TO ELIGIBILITY LIST:

- *1. Aircraft as marked require specific attention to proper balancing of the rudder. Refer to the Manufacturer's Service Manual for balancing instructions.
- **2. Installations on these aircraft require prior or concurrent installation of STC SA4-977.
- ***3. The Model HS-24 replaces the Anti-Collision beacon supplied in Bell's Night Flying Kit, P/N 206-706-303 on Models 206A and 206B.

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

FAA Form 8110-2-1(10-69) Page 6 of 6

This certificate may be transferred in accordance with FAR 21.47.

(3)
U.S. Department of Transportation
Federal Aviation

MAJOR REPAIR AND ALTERATION

Form Approved OMB No.2120-0020 11/30/2007	Electronic Tracking	Numbe
For	FAA Use Only	

Manufacturer

of Transportati Federal Aviett Administratio	ion n		, Powerpiant, Proj				
instructions	s and dispos	ition of this form. U.S.C. 46301(a)).	See Title CFR 43.9, This report is required t	Part 43 Append by law (49 U.S.	ix B, and AC 43.9- C. 44701). Failure	1 (or subsequent to report can res	revision thereof) for ult in a civil penalty for
1. Aircra		lity and Registration M 4	lark		Serial No. 28R7335291		
•	Make PIPER				Model PA28		Series R-200
2. Owne	Name (a MONN	As shown on registrati IOUTH AREA FLYI	on certificate) NG CLUB INC		Address (As shown Address 1900 CE City LAKEW(Zip 08701		State NJ
			3. For	FAA Use Only			
4. 1	Гуре		5. Unit	Identification			
Repair	Alteration	Unit	Make		Model		Serial No.
	x	AIRFRAME			(As described in	item 1 above)	
		POWERPLANT					
		PROPELLER					
		APPLIANCE	Type Manufacturer				
*			6. Cor	nformity State			
A. Agency	's Name an	d Address		B. Kind of	Agency		Manufacturar

C. Certificate No. Foreign Certificated Mechanic 46 DOVER WALK Address AP 2223682 IA Certificated Repair Station State NJ City TOMS RIVER Certificated Maintenance Organization USA Zip 08753 Country D. I certify that the repair and/or alteration made to the unit(s) identified in item 5 above and described on the reverse or attachments

X U.S. Certificated Mechanic

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. Signature/Date of Authorized Individual SALVATORE FILIPPONE 11-10-09 Extended range fuel per

	_		-	19
7. Approva	I for	Return	To	Service

Pursuant to the authority given persons specified below, the unit identified in item 5 was inspected in the manner prescribed by the Administrator of the Federal Aviation Administration and is APPROVED Person Appoved by Canadian Department of Transport Maintenance Organization FAA Fit Standards Manufacturer (Specify) Inspector BY Other Inspection Authorization Repair Station **FAA Designee** Signature/Date of Authorized Individual Certificate or Designation No.

SALVATORE FILIPPONE 11-10-09

14 CFR Part 43 App. B

Name

SALVATORE FILIPPONE

Weight and balance or operating limite compatible with all previous alterations 3. Description	Netion changes shall be a sto assure continued o	OTICE entered in the appro onformity with the a	opriate aircraft reco	ord. An alteration incess requirements	must be
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	Nationality and Reg	stration Mark		Date	
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of Transportation Federal Aviation Administration

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

Form Approved OMB No. 2120-0020

For FAA Use Only

INSTRUCTIONS:	Print or type all entries.	See FAR 43.9, FAR	43 Appendix B, and	AC 43.9-1 (or subsequ	ent revision thereof) for in	nstructions and
disposition of this	form. This report is requ	uired by law (49 U.S.C	3. 1421). Failure to re	port can result in a civil	penalty not to exceed \$1	000 for each such
violation (Section 9	001 Federal Aviation Act	of 1958)		• • • • • • • • • • • • • • • • • • • •		

	Make PIPE		Model PA 28R - 200						
1. Aircraft		R - 7335291			Nationality and Registration Mark N55804				
2. Owner	Name (As shown on MONMOUTH A		n certificate) YING CLUB INC		Address (As shown on registration certific PO BOX 2414 FARMINGDALE NJ 07727-241				
			3. For FA	A Use C	nly				
	4	. Unit Identifi	cation			5.	Туре		
Unit	Make	N	lodel		Serial No.		Repair	Alteration	
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Propeller									
Appliance	Туре								
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	TURNPIKE ROAD NJ 07830		Certificated Repair Station			7			
			Manufactur	rer					
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Regulations	s hereto have been ma s and that the information	on furnished h	erein is true	e and co	orrect to the bes	t of my r	(10wiedge.		
Date		Signa	ture of Authoria	zed Indivi	dual	_			
Ma	arch 25, 2010		ARK E PFU						
		7. Ap	proval for I	Return	to Service	4 in	enacted in	he manner	
orescribed l	the authority given per by the Administrator of	10	I halan the	bi tion	entified in item 4	_Approv	edF	Rejected	
	A Fit. Standards Inspector	Manufacture		XI	nspection Authorizat	ion	Other (spec	ify)	
24	A Designee	Repair Station	_	F	Person Appr. by Train Canada Airworthines	nsport is Group			
			ation No.		of Authorized Indiv	OUD			

NOTICE

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 additional sheets. Identify with aircraft nationality and registration mark and date work completed.)

Piper PA28R-200 serial # 28R-7335291 N55804 March 25, 2010 Tach Time 1375.0

- Installed LoPresti Speed Merchants hubcaps.
- This installation is approved for installation in accordance with STC# SA01224AT.
- STC# SA01224AT was issued to LoPresti Speed Merchants on December 10, 1996 and last amended April 17. 1998.
- 4. Installation in accordance with LoPresti Speed Merchants hubcap Installation part number LSM-200-701 revision D dated April 28, 2008.
- 5. A copy of this STC has been added to the permanent records of this aircraft.
- 6. Aircraft equipment list has been revised due to this alteration.
- 7. This alteration has no change to the aircraft weight and balance.
- These hubcaps may be removed or replaced with LoPresti or original Piper hubcaps as required.
- Logbook entries were made reflecting this installation.
- 10. Instructions for continued airworthiness will be found in the installed equipment manufacturer's maintenance manual and incorporated into the current aircraft inspection program. Otherwise, the scope and detail of FAR 43, Appendix D, will apply.

END--

Additional Sheets Are Attached

U.S. GPO: 1994-568-012/00019



U.S. Department of Transportation

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

Form Approved OMB No. 2120-0020

For FAA Use Only

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disposition of this form.		e de la company successiva de la comp	penalty not to exceed \$1000 for each such
violation (Section 901 Federal Aviation Ac	(OT 1908)		
Molation (Section 90) Federal Avidado	• • • • • • • • • • • • • • • • • • • •		

Make PIPER				Model		Model P	PA 28R - 200			
1. Aircraft	OC. III.		7335291	reactoriality and registra			gistrat	ration Mark N55804		
2. Owner	Name (As shown MONMOUTH	on regi	stration certif	icate) 3 CLUB INC	;	Address (As shown PO BOX 2414 FARMINGDAI			e)	
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		4. U	nit Identif					5. Type	A44	
Unit	Make			Model		Serial No.		Repair	Alteration	
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ppliance	Туре									
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attachments	at the repair and/or hereto have been m and that the informa	nade i	n accorda	nce with th	e requ	irements of Part 43	of th	e U.S. Feder	e reverse or al Aviation	
Date Jan	nuary 29, 2010			ature of Author ARK E PFU		lividual			<u> </u>	
						n to Service				
Pursuant to to prescribed by	he authority given p y the Administrator o	erson of the	s specifie Federal A	d below, the	e unit ninistr	identified in item 4 ation and is X	was i Appro	nspected in the	ne manner ejected	
FAX	A Fit. Standards Inspector	T	Manufactur	er	X	Inspection Authorizatio	n	Other (specify	1)	
	A Designee		Repair Stat		1	Person Appr. by Trans Canada Airworthiness	port			
Date of Approva Januar	of Rejection y 29, 2010		ate or Design 29529515	nation No.		ure of Authorized Individu				
FAA Form 337										

NOTICE

Weight and balance or operating limitation changes shall be entered in the appropriate aircraft record. An alteration must be on the supplicable airworthiness requirements. 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 complete.

Piper PA28R-200 serial # 28R-7335291 N55804 January 29, 2010 Total time 7270

- 1. Installation of a two light Whelen anti-collision strobe light system which consists of Management and the system which can be supported by the system of the system which can be supported by the system of the system which can be supported by the system of the system which can be supported by the system of right and 7111002 left nav light / tip strobes, 1 HDA, CF power supply, and 1 HD-T3-60 Package.
- 2. This installation is approved for installation in accordance with STC# SA800EA.
- 3. STC# SA800EA was issued to Whelen Engineering Company, Inc. on November 14, 196 amended June 18, 1999.
- 4. Installation in accordance with Whelen Anti-Collision Light Systems Installation and Service January 2007 document 05131A Rev 1.
- 5. Power supply is mounted on the aft avionics rack and is wired to aircraft buss protected by it. line fuse in accordance with AC43.13-1B Chapter 11, Sections 1 through 15.
- 6. Electrical load analysis performed and this system does not exceed 80% of alternator load form electrical system as per AC43.13-1B, Chapter 11, Section 3, Paragraphs 11.30, 11.36 and 11.31.
- 7. The following placard must be displayed in view of the pilot. "WARNING: TURN OFF ST LIGHTS WHEN TAXING IN VICINITY OF OTHER AIRCRAFT OR DURING FLIGHT THE CLOUDS, FOG OR HAZE. STANDERD POSITION LIGHTS TO BE ON FOR ALL **OPERATIONS."**
- 8. This system has no obvious effects on any other aircraft system.
- 9. A copy of this STC has been added to the permanent records of this aircraft.
- 10. Revised the aircraft's weight and balance.
- 11. Instructions for continued airworthiness will be found in the installed equipment manufacture manual and incorporated into the continued airworthiness will be found in the installed equipment manufacture. maintenance manual and incorporated into the current aircraft inspection program. Others scope and detail of FAR 43, Appendix D will apply.



Federal Aviation Administration

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

Form Approved OMB No. 2120-0020

For FAA Use Only

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
dienocition of this f	form. This report is requ	ired by law (49 U.S.C. 1421). Failure to report can result in a civil penalty not to exceed \$1000 for each suct
violation (Section 9	01 Federal Aviation Act	of 1958)

**	Make PIPER	us keeliid			Model PA 28R = 200					
1. Aircraft	Serial No. 28R	7335291			Nationality and Registration Mark N55804					
2. Owner	Name (As shown on re MONMOUTH AR				Address (As shown on registration certificate) PO BOX 2414 FARMINGDALE NJ 07727-2414					
-13.			3. For FAA	Use O	nly					
	4.1	Jnit Identif	ication		Tri- russ	5. Type	e			
Unit	Make		Model		Serial No.		pair	Alteration		
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ropeller			^							
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e Janua	ary 29, 2010	M	Signature of Authorized Individual MARK E PFUNKE							
		7. Ap	proval for l	Return	to Service	- Inne	atad in t	he manner		
rsuant to the scribed by t	authority given person he Administrator of the	ns specifie Federal A	ed below, the Aviation Adm	e unit ide ninistrati	entified in item 4 on and is <u>X</u>	was inspe Approved	F	Rejected		
FAA FI	t. Standards Inspector	Manufactur	rer		nspection Authorizati		ther (speci	fy)		
FAA Designee Repair St			tion	sport s Group						
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Weight and balance or operating limitation changes shall be entered in the appropriate aircraft record. An aiteration must be compatible with the applicable airworthiness requirements. previous alterations to assure continued conformity with the applicable airworthiness requirements.

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

Piper PA28R-200 serial # 28R-7335291 N55804 January 29, 2010 Total time 7270.9

- 1. Installed Knots 2U Ltd wing tips with recognition lights and Seaton Engineering Corp. Maxilanding light Controller.
- This installation is approved for installation in accordance with STC# SA1861SE and SA1401NW.
- 3. STC# SA1861SE was issued to Seaton Engineering Corp. on July 23, 2008.
- 4. STC SA1401NW was issued to Knots 2U Ltd on September 02, 1981 and last amended August 14
- 5. Wing tip installation in accordance with Piper Wing Tips With Landing / Recognition Lights installation manual RMD-00150-PS revision B dated November 1, 2007.
- 6. Light controller installation in accordance with Seaton Engineering Corp. MaxPulse Installation Instructions Document 9150-001 Rev F dated August 28, 2008.
- 7. Light controller and recognition lights are wired to aircraft buss protected by 20 amp circuit breaker in accordance with AC43.13-1B Chapter 11, Sections 1 through 15.
- 8. Electrical load analysis preformed and this system does not exceed 80% of alternator load for aircraft's electrical system as per AC 43.13-1B, Chapter 11, Section 3, Paragraphs 11.30, 11.36 and 11.37.
- 9. This system has no obvious effects on any other aircraft system.
- 10. A copy of these STCs has been added to the permanent records of this aircraft.
- 11. Aircraft weight and balance revised to reflect this installation.
- 12. Logbook entries were made reflecting this installation.
- 13. Instructions for continued airworthiness will be found in the installed equipment manufacturer's Instructions for communed and incorporated into the current aircraft inspection program. Otherwise, the

END-

U.S. Department	
of Transportation	

Form Approved OMB No.2120-0020 11/30/2007	Electronic Tracking Number
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			gistration certificate)			Address (As show	vn on registration of	certificat	e)
2. Owr	ner MONN	MOUTH AREA	FLYING CLUB INC			Address 1900 C	EDAR BRIDGE A	A STATE OF THE PARTY OF THE PAR	ate NJ
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			3. F	or F	AA Use Onl	у .			
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l certify the	hat the repai	ir and/or alte	ration made to the unit	(s) id	entified in it	em 5 above and	described on	the re	verse or attachmen
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FR Part 43	Арр. В		,			SALVATO	ORE FILIPPON	IE 1	1-10-09
- 17			7. Appro	val f	or Return	To Service	_		
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COmpatible with all previous alterations to assure of the compliance of the complian	NOTICE as shall be entered in the continued conformity with	appropriate aircraft record. An alteration must be the applicable airworthiness requirements.
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3	INSTALLED LANDING GEAR FAIRINGS IN ACCOUNTS TALLED WING ROOT FAIRINGS IN ACCORD SA603GL	ORDANCE MATERIAL	Date
	SABOJGL FLAPS AND STABILIZE	PANCE WITH KNOTS 2U. LTD STC SA1713GL R GAP SEALS IN ACCORDANCE 1881216GL	Þ

- 2. INSTALLED WING ROOT FAIRINGS IN ACCORDANCE WITH KNOTS 2U, LTD STC 8A1216GL.
 3. INSTALLED WING ROOT FAIRINGS IN ACCORDANCE WITH KNOTS 2U, LTD STC 8A1216GL. INSTALLED WING ROOT FAIRINGS IN ACCORDANCE WITH KNOTS 2U, LTD STC SATZIBUL SAROSCI. LTD STC SATZIBUL SAROSCI.

United States of America

Department of Transportation—federal Aviation Administration

Supplemental Type Certificate

Number SA1216GL

This cortificate, issued to Knots 2U, Ltd. 3106 Bieneman Road Burlington, WI 53105

colifees that the change in the type design for the following product with the limitations and conditions

therefor as specified horson meets the airworthiness requirements of Part 3 witho Civil Air

Regulations. (See Type Certificate Data Sheet No. 2A13 for complete certification basis)

Conginal Product - Typo Certificater Number: 2A13

Make: Piper Aircraft Corporation

Model: PA-28-140, PA-28-150, PA-28-151, PA-28-160,

PA-28-161, PA-28-180, PA-28-181, PA-28-235,

PA-28-236, PA-28-201T, PA-28R-180, Description of Type Design Change: PA-28R-200, PA-28R-201, PA-28R-201T,

PA-28RT-201, PA-28RT-201T

Install Wing Root Fairings in accordance with Knots 2U, Ltd. Wing Root Fairing Installation Manual, Revision B, dated June 1, 1997, or later FAA approved revisions.

Limitations and Conditions:

Compatibility of this design change with previously approved modifications must be determined by the installer.

This cortificate and the supporting date which is the basis for approval shall remain in effect until surrendered, suspended, rowked, or a lormination date is otherwise established by the Administrator of the

Federal Aviation Administration

Date of application: July 20, 1987

Date of issuence: August 5, 1987

Sule researd: May 7, 1997

Tale amended: July 15, 1997

By direction of the Administrator

Gregory J. Michalibenshenior Aerospace Engineer

Airframe & Administrative Branch

Chicago 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.

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

Form Approved OMB No.2120-0020

For FAA Use Only

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						Elizabeth Chile	Nationality and R N55804	egistration Man	k		. 14
2.0	wner	Name (As shown on registration certificate) MONMOUTH AREA FLYING CLUB					Address (As shown PO BOX 2414 FARMONGDA			ate)	
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						Manufacturer			1		
ner	reto have	the repair and/or been made in acc furnished herein is	cordance with the	requirer	ments	of Part 43 of	the U.S. Federa	described on al Aviation R	the review	erse or atta	chments the
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						or Return J	o Service			-	
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		A Designee	Repair Station	n		Person Appo Canada Airw	oved by Transport				
		or Rejection	Certificate or De	signation I	No.		of Authorized I	3			
EPTE	MBER 25	,2006	156442627			1	114	wei			

Weight and balance or operating limitation changes shall be entered in the appropriate aircraft record. An alteration must be accurately continued conformity with the applicable airworthiness requirements.

		NAME AND ADDRESS OF TAXABLE PARTY.	-
٠.	Description of	Work Accomplished	

Description of Work Accomplished

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

N55804 TACH 7102 PIPER PA 28R-200 S/N 28R-7335291 SEPTEMBER 25,2006

- 1. REMOVED THE VERTICAL FIN STROBE LIGHT UNIT, A WHELAN MODEL HR CFA 14/28 P/N 01-0770029-31REV AF SER#
- 2. REPLACED WITH A WHELAN LED ANTI-COLLISION UNIT MODEL 7090004 P/N 11-02523 MANUFACTURING DATE: 09-08-08
- 3. THIS UNIT WAS INSTALLED IN ACCORDANCE WITH THE MANUFACTURERS INSTRUCTIONS SHEET AND THE WHELAN ANTI-COLLISION LIGHT SYSTEM INSTALLATION AND SERVICE MANUAL DATED MAY 2005 DOCUMENT NO 05131.
- 4. THERE ARE NO WEIGHT OR BALANCE CHANGES.
- 5. THIS UNIT IS LISTED ON THE ELIGIBILITY LIST ON PAGE 8 OF THE STC AND IS APPROVED FOR INSTALLATION.
- 6. THE BASIS FOR APPROVAL IS STC SA615EA DATED MAY 14, 1968 AMENDED JUNE 17, 2005
- 7. INSTRUCTION FOR CONTINUED AIRWORTHYNESS THE 70900 SERIES LED ANTI-COLLISION LIGHT ASSEMBLIES IS DESIGNED WITH ID VERTICLE COLUMNS CONSISTING OF 3 LEDS EACH, SHOULD ANY ONE LED OR ANY VERTICLE 8. THIS UNIT WAS OPS CHECKED AND WORKS NORMALLY.

	AND WORKS NORMALLY		
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Additional Sheets Are Attatched



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

Form Approved OMB No. 2120-0020

For FAA Use Only

	Make PIPER		Model PA	Model PA 28R - 200					
1. Aircraft	Serial No. 28R	- 7335291	Nationality and Reg	istration Mark	N55804				
2. Owner	Name (As shown on re MONMOUTH AR	gistration certificate) REA FLYING CLUB INC	PO BOX 2414	on registration certificate E NJ 07727-2414)				
ř		3. For FAA U	se Only						
			3 × 2 × 1		9				
11-74		Unit Identification		5. Type					
Unit	Make	Model	Serial No.	Repair	Alteration				
Airframe	(As	described in Item 1 above)	ari Sura erri	X				
Powerplant			uma revised.""	i au 11 G in 1 i					
Propeller		.norisamena sin	galiceller ebem	Sew sautr	D213.				
Appliance	Туре								
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	- 1 1	6. Conformity	Statement						
	Name and Address	B. Kind of Agency		C. Certificate No					
JOHN M BU	JNDY	X U.S. Certificat		8058	34509				
1 AVE A HELMETTA	N.I 08828		icated Mechanic	i <mark>e</mark> jmismi ance.					
- ALLIVIL I I	1,10 00020	Certificated R	epair Station	O misch to					
		Manufacturer							
attachments I	hereto have been made	eration to the unit(s) identifice in accordance with the re in furnished herein is true a	quirements of Part 43	of the U.S. Feder					
Date Jun	e 2, 2006	Signature of Authorized JOHN M BUNDY		Buch					
	3 (25)	7. Approval for Re		0					
	he authority given pers y the Administrator of th	ons specified below, the un ne Federal Aviation Admini	nit identified in item 4 stration and is X	was inspected in the ApprovedR	ne manner ejected				
Pursuant to to prescribed by			and the state of t						
prescribed by	A Fit. Standards Inspector	Manufacturer	X Inspection Authorization	n Other (specify	y)				

NOTICE

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.)

Piper PA28R-200 serial # 28R-7335291 N55804 June 2, 2006 Total time 6603.3

- 1. Replaced Hartzell propeller model HC-C2YK-1BF with Hartzell propeller model HC-C3YR-1RF/F7282.
- 2. This installation is approved for installation in accordance with STC# SA4528NM.
- 3. STC# SA4528NM was reissued to Hartzell Propeller Inc. on December 21, 1992 and last amended July 24, 1996.
- 4. Installation in accordance with Hartzell installation instructions dated 1-27-97.
- 5. A copy of this STC has been added to the permanent records of this aircraft.
- 6. Aircraft weight and balance revised.
- 7. Logbook entries were made reflecting this installation.
- 8. A copy of the Hartzell flight manual supplement has been added to the aircraft flight manual.
- Instructions for continued airworthiness will be found in the installed equipment manufacturer's maintenance manual and incorporated into the current aircraft inspection program. Otherwise, the scope and detail of FAR 43, Appendix D will apply.

-END

Ins d

Department of Transportation — Federal Aviation Administration

Supplemental Type Certificate

Number

Hartzell Propeller, Inc. One Propeller Place Piqua, OH 45356-2634

tife that the change in the hype design for the following product with the limitations and conditions

therfor exspecified horson meets the sinworthiness requirements of Part 3 of the Civil Air See Type Certificate Data Sheet No. 2A13 for complete certification basis.

Original Graduel - Trypo Cartificato Number: 2A13

Make: Piper

Model: PA-28R-180, PA-28R-200, PA-28R-201,

PA-28RT-201

Description of Taype Design Change:

Installation of a Hartzell HC-C3YR-1RF/F7282 constant speed propeller and Hartzell 835-47(P) or 835-52(P) spinner, in accordance with either Robert A. Craner Installation Instructions No. 6, dated November 28, 1989 or Hartzell Instructions For Installation dated March 31, 1993, or later FAA approved revision.

Similations and Conditions:

1. Compatibility of this design change with previously approved modifications must be determined by the installer.

(See Continuation Sheet Page 3 For Additional Limitations.)

This contificate and the supporting date which is the basis for approval shall romain in effect until see modered, suspended, marked, or a lormination date is altererise established by the Administrator of the

Federal Disation Administration.

Gladapplication: 7/5/88

Glad of severe: 1/26/89

- Sale misemed: -12/21/92

12/14/89; 2/10/95;

livelin of the deministrator

(Signature) Thaddeus D. Krolicki, Jr.

Manager, Propulsion Branch Chicago Aircraft/Gertification Offic

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.

fac for \$110-2[10-68]

Maind Soms of America

Bepariment of Transportation—federal Abiation Administration Supplemental Type Certificate July 24, 1996 SA4528NM Amended: July 24, 1996 (Continuation Sheet)

AND CONDITIONS (continued): Robert A. Craner Airplane Flight Manual Supplement No. 6, and a supplement No. Robert A. Craner Allipsiane Flight Manual Supplement No. 6
Robert A. Craner Allipsiane Flight Manual
Aired November 30, 1989, or later FAA approved
Robert A. Craner Allipsiane Flight Manual
Aired November 30, 1989, or later FAA approved
Robert A. Craner Allipsiane Flight Manual
Rob No. narrzell Airplane Flight Manua No. 1909, or later FAA approved 10, 1995, or later FAA approved this installation.

prision is required with this installation.

propeller and Propeller Limits: Hartzell HC-C3YR-1RF/F7282 constant speed.

Hub Model: HC-C3YR-1RF Blade Model: F7282

74" Maximum 73" Minimum Diameter:

Pitch Settings at 30" Station

PA-28R-180 11.8° ± 0.2° PA-28R-200 12.5° ± 0.2°

Low:

PA-28R-201 12.5° ± 0.2°

PA-28RT-201 12.5° ± 0.2°

30° ± 0.5°

4. Avoid continuous operation below 15 inches manifold pressure between 1950 and 2350 RPM.

5. Tachometer:

Normal operating range (Green Arc) 500 to 2700 RPM.

of not exceeding 3 years, or

Maximum continuous power (Red Radial) 2700 RPM.

Note 1. Noise Characteristics:

Any alteration of this course

This modification did not increase the noise level and was not considered an "acoustical change" as defined in Paragraph 21 Aviation Paragraph 21.93(b), Amendment 21.63, of the Federal Aviation Regulations.

HARTZELL PROPELLER INC. 10P PROP PERFORMANCE CONVERSIONS

HARTZELL

One Propeller Place Ohio 45356-2634 phone: 937-778-4200

<u>Authorization For Use of STC Document</u>

This Supplemental Type Certificate is the property of Hartzell Propeller, Inc. This Supplemental Type Continuate to the property of marketil Propeller, Inc.

Hartzell Propeller, Inc. authorizes the use of the STC data only for the aircraft enecified below.

Any use of this STC beyond the aircraft enecified below. Hartzell Propeller, IIIO. auditorizes the use of the STC beyond the aircraft specified below is a specified below. Any use of this STC beyond the aircraft specified below is a specified below. Any use and is subject to legal action. specified proprietary laws and is subject to legal action.

please keep the STC, installation instructions, Flight Manual Supplement, and Please keep the 310, managed in a secure location. There will be a charge for issuing this authorization sheet, in a secure location. replacement documents.

SA4528NM

PIPER PA28R-200 STC Number:

Aircraft Model: 28R-7335291 Serial Number:

N55804

Aircraft Registration: 05/25/06

Date Issued: Mike Trudeau Issued by:

Hartzell Top Prop Performance Conversions

HARTZELL

Page 2 of 2 1-27-97

INSTRUCTIONS FOR INSTALLATION OF A HARTZELL HC-C3YR-1RF/F7282 PROPELLER ON PIPER PA28R-180, PA28R-200, PA28R-201, & PA28RT-201 AIRCRAFT (STC SA4528NM)

- Remove original propeller and spinner. 1.
- Install new propeller and spinner in accordance with Hartzell Owner's Manual 2. number 115().
- Install the following placard between the tachometer and the manifold pressure 3. guage:

"AVOID CONTINUOUS OPERATION BELOW 15 INCHES HG BETWEEN 1950 AND 2350 RPM."

Remark the tachometer as follows: 4.

Green Arc

500 to 2700 rpm

Red Radial

2700 rpm

- Attach Hartzell Propeller Inc. Airplane Flight Manual Supplement to existing 5. Piper Airplane Flight Manual.
- Revise weight and balance records to show the removal of the original propeller and spinner (using data provided in the Airplane Flight Manual Equipment List) 6. and the addition of the following equipment (using the same propeller arm as the previous propeller).

Hartzell HC-C3YR-1RF/F7282 propeller and 835-47() or 835-52() spinner weight is 72.4 pounds (total).

Return aircraft to service with FAA Form 337 referencing STC. 7.

FAA Approved The 22mg Date 3H/97

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	(Air	frar	ne, Powe	erplan	t, F	ropeller,	or Ap	pliance)	Fo Office Identification	r FA. nty)	
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1984	Make Piper						Model F	A-28R-200		JAN	2 5 200	
. Aircraf	Serial No. 28R7	335	291			i.		and Registration Mar 55804	ńk	ALLEN	TOWN F	
2. Cwner	Name (As shown on registration certificate) Monmouth Area Flying Club,					Inc.		P.O. Bo	s shown on registration 0x 2414 gdale NJ 077			
						3. For FAA Use	Only					
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	Avionics, Inc rt, 53 Rt. 639				X					C.R.S. # TXXR014L Limited Airframe		
D. I certify that have been	the repair and/or alterat made in accordance wi ue and correct to the be	th the	requirements of	identified i Part 43 of t	in iter	n 4 above and de S. Federal Aviat	escribed on to	the reverse or attachrons and that the infor	nents hereto mation furnished			
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	authority given persons the Federal Aviation Ac			nit identifie	d in		-		the			
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MAJOR REPAIR AND ALTERATION (Airframe, Powerplant, Propeller, or Appliance)

Form	roved 2120-002

AA Use Only

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

		Piper Serial No. 28R-7335291			1	Model PA-28R-200				
. Aircraft					Nationality and Registration Mark N55804					
. Owner	Name (As shown on registration certificate) Monmouth Area Flying Club, I			Address (As shown on registration certificate)						
					. For FAA Use O	nly				
Distri		aircraf	t only, subject to c	onformi	ty inspection b		is and is approved for ad in FAR 43, Section ector:			
	1				4. Unit identificat	ion		5. Type		
Unit	N	ake			Model		Serial No.	Repair	Alteration	
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	n Avionics, Inc			-	U.S. Certified Mechanic					
Sussex Airport, 53 Rt. 639					Foreign Certified Mechanic		ON BY THE RESERVE	C.R.S. # TXXR014L Limited Airframe		
P.O. Box 250				X	Certified Repair	Station	Cillined All	CHINGO ANNAILE		
bussex, N.J. 07461 D. I certify that the repair and/or alteration made to the unit(s) identified in it					Manufacturer					
nave be	en made in accordance s true and correct to the	with the	requirements of Part 4	med in ite 13 of the U	J.S. Federal Aviati	escribed on the reverse of on Regulations and that	r attachments hereto the information furnished			
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U.S. 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 \$1000 for each such

	Make PIPE	:R			Model PA 2	8R - 200	
I. Aircraft	Serial No. 28	R - 7335291	isunc VI	elixe	Nationality and Regist	ration West N	55804
. Owner	Name (As shown on MONMOUTH /	registration cer AREA FLYIN	tificate) IG CLUB INC	eri -	Address (As shown on PO BOX 2414 FARMINGDALE	registration certificate)	3004 301 3011 3048
4-50			3. For F	AA Use	Only		
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Unit	Make	30	Model	7 003. 1993.	Serial No.	Repair	Alteration
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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 secure and the contraction of the secure and t

previous alterations to assure continued conformity with the applicable airworthiness requirements.

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

Piper PA28R-200 serial # 28R7335291 N55804 January 5, 2005 Total time 6045.6

- 1. Installed Bob Fields Aerocessories Deluxe Manual inflatable cabin door seal.
- 2. This installation is approved for installation in accordance with STC# **SA4236WE**.
- 3. STC# SA4236WE was issued to Bob Fields Aerocessories on September 25, 1980.
- 4. Installation in accordance with Bob Fields Aerocessories Drawing No. 3920 Revision G Dated January 29, 1987 and, Installation Instructions Report BFA 310 Revision #2 dated February 26, 1993.
- 5. FAA Memorandum Dated January 11, 1998 to Docket 98-CE-88-AD approves this installation as an Alternative Method of Compliance (AMOC) for AD 98-21-21.
- 6. This is a manually operated door seal inflation system for the cabin door.
- Placards: on copilots side window above door handle: "INFLATE DOOR SEAL BEFORE TAKE-OFF DEFLATE SEAL AFTER LANDING"
- 8. This system has no obvious effects on any other aircraft system.
- 9. A copy of this STC has been added to the permanent records of this aircraft.
- No change to aircraft weight and balance from this alteration. 10.
- Logbook entries were made reflecting this installation. 11.
- Instructions for continued airworthiness will be found in the installed 12. equipment manufacturer's maintenance manual and incorporated into the current aircraft inspection program. Otherwise, the scope and detail of FAR 43, Appendix D will apply.

-----END-

Department of Transportation — Federal Aviation Administration

Supplemental Type Certificate

Number SA4236WE

This certificate, issued to Bob Fields Aerocessories

certifies that the change in the type design for the following product with the limitations and conditions

3* of the Civil Air therefor as specified hereon meets the airworthiness requirements of Part

*See Type Certificate Data Sheet 2A13 for complete certification basis.

Original Product - Trype Certificate Number: 2A13

Make: Piper

Model: PA-28-140, -150, -160, -180, -235, -151, -181, -161, -236, -201T, PA-285-160, -180; PA-28R-180, -200, -201, -201T, PA-28RT-201, -201T Description of Type Design Change: Installation of inflatable door seal in accordance with FAA sealed Aerocessories Drawing No. 3920 dated July 2, 1980, or later FAA approved revision.

Limitations and Conditions: The approval of this change in type design applies to the basic aircraft of the specified model only that is otherwise unmodified. This approval should not be extended to other aircraft of this model on which other previously approved modifications are incorporated unless it is determined by the installer that the interrelationship between this change and any of those other previously approved modifications will introduce no adverse effect upon the airworthiness of that aircraft.

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.

Tale of application August 14, 1980

Tale of issuance September 25, 1980

Jule ressued

Tale umended

hief, Aircraft Modification Branch

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

Page 1 of 2 Pages This certificate may be transferred in accordance with FAR 21 47



U.S. 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

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INSTRUCTIONS:	Print or type all entries.	See FAR 43.9, FAR 4	3 Appendix B, and AC	43.9-1 (or subsequent i	revision thereof) for instru	MOUS SIIG
INSTRUCTIONS	form This report is requ	ared by law (49 11 8 C	1421) Fallure to report	con requit in a chill no	nalty not to exceed \$1000	for each such
disposition of title	tom. The report is requ	11 8d by law (45 0.0.0.	1421). I alidie to report	can result in a civil per	ially not to exceed 41000	
violation (Section S	901 Federal Aviation Act	of 1958)			F - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 -	

1	Make PIPER	manlusaw	THOUSE	Mc	del PA 28	R - 200			
. Aircraft	Serial No. 28R - 7	335291		Na	Nationality and Registration Mark N55804				
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1	- 1 - 19 1		Manufactu	atified in	item 4 shove si	nd describ	ed on th	ne reverse or	
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Date	otember 10, 2004	Sigr N	nature of Author	ized Indiv	dual	AA 1	arright)	VE EROOF E	
		7. A	pproval for	Return	to Service			H	
Pursuant to the prescribed by	he authority given persy the Administrator of the		ad balow th	e unit i	dentified in Item	4 was insp _Approve	ected in	n the manner _Rejected	
	Fit. Standards Inspector	Manufact	-	X	Inspection Authorize	ation	Other (sp	pecify)	
nic -	A Designee	Repair St	ation		Person Appr. by Tra Canada Airworthine ure of Authorized Indi	88 Group			
1 1 1									

Weight and balance or operating limitation changes shall be entered in the appropriate aircraft record. An alteration must be compatible with previous alterations to appropriate aircraft record. 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.)

Piper PA28R-200 serial # 28R7335291 N55804 September 10, 2004 Total time 5897.8

- Removal of J.P. Instruments model 100-4C EGT/CHT monitoring system.
- 2. Installation of J.P.Instruments EDM-700-4C Engine Data Management Scanner.
- 3. This installation is approved for installation in accordance with STC# SA2586NM.
- 4. STC# SA2586NM was issued to J.P.Instruments, Inc. on August 14,1985 and last amended
- 5. Installation in accordance with J.P.Instruments, Inc. Installation Manual for the EGT-701 #103 Rev-C approved on June 17 1999 and last printed on September 8, 2003.
- 6. System indicator is wired to aircraft buss through a 2 amp inline fuse in accordance with AC43.13-1B Chapter 11, Sections 1 through 15.
- 7. Electrical load analysis preformed and this system does not exceed 80% of alternator load for aircraft's electrical system as per AC 43.13-1B, Chapter 11, Section 3, Paragraphs 11.30,
- 8. This system has no obvious effects on any other aircraft system.
- 9. A copy of this STC has been added to the permanent records of this aircraft.
- 10. The J.P.Instruments, Inc. Airplane Flight Manual Supplement No. 1, Rev B dated November 12, 1992 has been added to the permanent records of this aircraft.
- No change to aircraft weight and balance.
- 2. Logbook entries were made reflecting this installation.
- 3. Instructions for continued airworthiness will be found in the installed equipment manufacturer's maintenance manual and incorporated into the current aircraft inspection program. Otherwise, the scope and detail of FAR 43, Appendix D will apply.

Mailtet States Ol Assertes Repartment of Cransportation - Rederal Abiation Administration

Supplemental Type Certificate (Continuation Sheet)

Number SA2586NM

Limitations and Conditions - continued

Cylinder head, oil, turbine inlet and/or exhaust gas temperature, fuel flow equipment, tachometer instruments, and manifold pressure instruments required by the original type design, or if required by other FAA approval, must remain installed and operable.

Aircraft listed on the FAA approved Master Eligibility List SA2586NM and that have been previously modified with a fuel flow indication system that utilizes the Flowscan fuel flow transducer (P/N: 201-A, 201-B, 201-C, or 231 or equivalent as listed on page 4 of the FAA Approved Installation Instructions, Drawing 103) are eligible for installation of the EGT-701 fuel flow option.

This certificate does not constitute installation approval of the fuel flow transducer.

EGT-703 temperature indicator with tachometer (rpm) and manifold pressure options are eligible for the 4 cylinder and 6 cylinder engines listed on the Master Eligibility List (MEL) SA2586NM only.

FAA Approved Airplane/Rotorcraft Flight Manual Supplement No. 1, Revision A, dated December 13, 1996 or later FAA approved revision, is required with the installation of the EGT-70 system.

Eligible dash numbers for the EGT-701 are listed on MEL SA2586NM.

A copy of this certificate must be maintained as part of the permanent records of the modified aircraft.

-END-

Department of Ccansportation - Feberal Abiation Administration

Supplemental Type Certificate

Number SA2586NM

This Bartillout arend to

J. P. INSTRUMENTS

PO Box 7033 Huntington Beach, CA 92646

cartifies that the charge in the type design for the following product with the limitations and conditions therefor as specified horses must ble airportliness repairments of Part 3 of the Einst Aciation Regulations, including respective Amendments as specified in the attrobal Agrees Model Bist.

Compared Product Type Cartificate Number: * See attached FAA Approved I.P. Instruments

• Master Eligibility List No. SA2586NM for list

of approved aircraft models and applicable TCDS

Description of Type Daving Classes

Installation of J. P. Instruments temperature monitoring systems in accordance with FAA Approved J. P. Instruments Drawing List Report No. 100, Revision D, dated December 19, 1996, or later FAA approved revisions. FAA Approved Airplane/Rotorcraft Flight Manual Supplement No. 1 for EGT-701 temperature indicator, Revision A, dated December 13, 1996, or later FAA approved revisions.

Einstelland and Bandiding. The approval of the change in type design applies to the basic airplane of the specific models that are otherwise unmodified. This approval should not be extended to other specific airplanes of these models on which other previously approved modifications are incorporated, unless it is determined that the interrelationship between this installation and any previously approved configuration will not introduce any adverse effect upon the airworthiness of that airplane. 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. (See continuation sheet) This certificate and the suggesting date which is the basis for approval shall remain in offers until surrendered secretaried received or a termination date is otherwise established by the Administrator

of the Federal Arriation Administration Sat of application December 31, 1984

Sat of increase: August 14, 1985

The mirror

The annual July 13, 1987, November 13. 1992, December 19, 1996, May 15, 1998,

June 17, 1999

nager, Propulsion Branch

Los Angeles Aircraft Certification Office

(Title)

Any alternature of this constitute is preschable by a fine of not expending \$1,000, or imprisonment not expending 3 years, or both

DA Pors \$1.0-2(15-68)

This corresponds may be transferred in accordance with FAR 21.47. Page 1 of 3



U.S. Department
of Transportation

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

Form Approved OMB No. 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 a civil penalty not to exceed \$1000 for each such intention (Section 901 Federal Aviation Act of 1958)

il	Make PIPER		Model PA	28R - 200	
I. Aircraft	Serial No. 28R	7335291	Nationality and Reg	istration Mark	N55804
2. Owner	Name (As shown on re MONMOUTH AR	gistration certificate) EA FLYING CLUB IN	NC PO BOX 2414	on registration certifical	•
_		3. For I	FAA Use Only	reterrible and	William D
	POID N. A.	2 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	t of the resistance of the second		
	Community of 4.	Unit Identification	AS SOT ALL SOL	5. Type	- 0 k/11
Unit	Make	Model	Serial No.	Repair	Alteration
Virframe	ea)——(As	described in Item 1	evoda anreo Nich TOB Centro	ichicopa ni r	of elect X
Powerplan	nt Tisto us aint to abro	sermanent pro	ed) of babbs meed a	esd OTS and	to var a
Propeller			े	lad has tris :	au decade un
ppliance	Туре				
	Mnfctr	- neitalia iui	- New Part Hoant	- Silos ecintri	odbodza i
ļ.			rmity Statement	C. Certificate N	lo.
	s Name and Address	B. Kind of Ag	gency ortificated Mechanic	129	
MARKE	PFUNKE TURNPIKE ROAD		Certificated Mechanic	rer's mainte	
	N NJ 07830		ated Repair Station	program C	noficede
771/2	i utousolde tes un	Manufa			vince
-44	to harata have been mad	eration to the unit(s) e in accordance with n furnished herein is	identified in item 4 above an the requirements of Part 43 true and correct to the best	o di tile U.S. Fede	Mai Walanou
Date (September 10, 2004	MARKEP			
i i		7. Approval f	or Keturn to Service		
Pursuant to prescribed	to the authority given pers to by the Administrator of the	ons specified below, ne Federal Aviation A	the unit identified in Item 4 Administration and is X	was inspected in Approved	the manner Rejected
	FAA Fit. Standards Inspector	Manufacturer	X Inspection Authorization	on Other (spec	cify)
BY	FAA Designee	Repair Station	Person Appr. by Trans Canada Airworthiness	Group	
	roval or Rejection Cert	ificate or Designation No.	Signature of Authorized Individ	ual	

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.)

Piper PA28R-200 serial # 28R7335291 N55804 September 10, 2004 Total time 5897.8

- 1. This 337 is to correct for missing paperwork. Bulkhead was installed on 3/19/99
- 2. Replaced Piper propeller spinner forward bulkhead with TCB Composite Company composite forward bulkhead assembly.
- 3. This installation is approved for installation in accordance with STC# SA00955AT.
- 4. STC# SA00955AT was issued to TCB Composite Company on January 29,
- 5. Installation in accordance with TCB Composite Installation Procedures.
- 6. A copy of this STC has been added to the permanent records of this aircraft.
- 7. Aircraft weight and balance revised.
- 8. Logbook entries were made reflecting this installation.
- 9. Instructions for continued airworthiness will be found in the installed equipment manufacturer's maintenance manual and incorporated into the current aircraft inspection program. Otherwise, the scope and detail of FAR 43, Appendix D will apply.

Christi Sectors of Charties

Department of Transportation—Jederal Abiation Administration Supplemental Type Certificate

Number

SA00955AT

The corlificate is med to

TCB Composite Company 6041 Bartholf Ave , Suite 3 Jacksonville, FL 32210

while that the change in the type design for the following product with the timelations an

therefor as specified however meets the airworthiness organizaments of Part 3 of the Civil Air

Regulations

Biginal Badust - Type Carlificale Number

2A13

Piper Aircrast Corporation PA28-235, PA28R-180/-200

Dumplion of Typo Basign Change

Installation of composite bulkhead in accordance with TCB Composite Company "Installation Procedures and Kit Parts List for Piper PA28R-180/200, PA28-235 Composite Forward Bulkhead", Revision NC, dated December 7, 1995, or later FAA approved revision

Similations and Conditions:

This approval should not be extended to other airplanes of this model on which other previously approved modifications are incorporated unless it is determined by the installer that the interrelationship between this change and any of those other previously approved modifications will introduce

(Continued on Page 2) This revisionate and the supporting date which is the basis for approval shall remain in affect until surrondored susponded, revoked, in a termination date is otherwise as tablished by the stabilished by

Federal Analism Administration

Short of application: December 7, 1995

January 29, 1996 Lat of assance :

Tole nashed!

Job awanded

By direction of the Administration

Paul C. Scheyers

Associate Manager

Atlanta Aircraft Certification Cifica

Any adjustance of this investigate is punishable by a fine of not exceeding \$1,900, or imprisonment not exceeding 9 years, or both.

symme to execute trainer expectation of Transportation—Interal Aviation Administration Supplemental Type Certificate

(Continuation Sheet)

Number SA00935AT

Limitations and Conditions - Continued

10 adverse eiffect upon the airworthiness of that airplane. Composite forward bulkhead, no adversariate TCB67793-00 is a replacement for Piper Part Number 67793-00.

Date of Issuance: January 29, 1996.

----END----

TCB Composite Company 3811 South Airport Road Ogden, Utah 84405

Instructions for Continued Airworthiness Document Number: TCB-0100

For Aircraft Components Manufactured by TCB Composite Company per FAR 43 App. D

- 1. Frequency of inepection: To be performed during annual or 100 hour inspection.
- 2. Gain access to the components.
- 3. Inspect the component using the following methods:
 - a. Visual Inspection for cracks, scratches blisters, dents, peeling, pitting, air bubbles, and surface wrinkles.
 - b. Sonic Testing "Coin tapping" is a common technique used for detecting detarrinations. When tapping any area, a coin or other suitable object may be used. When this technique is used, a clear, sharp ringing sound is indicative of a well-bonded solid structure, while a duli sound or thud indicates a delamination. Automated sonic devices that produce a consistent tapping rate and force are available for the test.
- 4. Replace loose or broken anchor nuts or rivets per AC 43.13-1 B. Note: There are no other authorized field repairs for TCB Composite Company
- 5. If the above test reveals any discrepancies other than those noted in item 4, remove the component and replace with a new item.
- 6. Cosmetic Maintenance:
 - a. Surface paint can be sanded using 180 and finished with 220-grit sandpaper. CAUTION: DO NOT SAND INTO THE COMPONENT

b. Body fillers and surface sealers maybe used to attain a smooth surface prior to

c. All new primed or repainted spinners require a quality eircraft or automotive two (2)-component paint or equivalent, for maximum protection.

7. Removing the component requires reinstallation per aircraft maintenance instructions.

End of Document 12-03-2003

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

Federal Aviation Administration							,	Office Identif			
NSTRUCTION and disposition or each such to	NS: Print or type at of this form. This for iolation (Section 90	ll entricorm is	es. See FAR 43.9, I required by law (49 leral Aviation Act of	FAR 43 U.S.C. 1958)	3 Apper . 1421).	ndix B, and AC Failure to rep	2 43.9-1 (or subsequent can result in a ci	uent revision there	of) for instr	ructions 000	\dashv
Aircraft	Meke Piper						Model PA-28				\dashv
Allorun	Serial No. 28R-7						Nationality and Re-	distration Mark			- 1
Owner	Name (As shown Monr	on re	gistration certificate n Area Flying Clu) u b Inc	:		Address (As show		certificate)		
			Admilia Admilia a				Farmi	Ingdale, NJ 077	Beimar E 727	BLVD	
	All Martin and Address of States			3	. For FA	VA Use Only					
		,									
	1				I. Unit I	dentification				5. Type	
Unit		Make				Model		Serial No.		Repair	Alteration
RFRAME	~~~	~~~	*******	(As de	escribe	ed in item 1	above) ~~~~	~~~~~	•		
WERPLANT	Lycoming			10-:	360-CI	С		L-10609-51A			x
OPELLER						,					
	Туре										
PLIANCE	Manufacturer										
				6.		rmity Statem			C. Certii	Easta No	
Agency's N	ame and Address		u I		B. K	ind of Agenc	y ated Mechanic		-		
cean Aire					-		ificated Mechanic		OF1R	312N	
.O. Box 12 oms River	45 , NJ 08754				-		Repair Station		1		
	_				X	Manufacture	r		1		
have been	made in accordan	ice wi	ation made to the u th the requirement to the best of my	SUIF	edge.	,, 410 0.0		ed on the reverse gulations and tha	e or attach	ments here	eto
ate 3-19-9	99				Sig	nature of Au Kevin J.	thorized Individual Stavola				
				7. Apr	proval f	Dalum to	Candra		n ad by	the	
Pursuant to t	he authority given	person	ns specified below, Administration and	, the u	nit iden	tified in item	4 was inspected in	REJECTED Other (Specify	SCRIDEG DY		
FA	A Fit. Standards		Manufacturer		Ins	spection Auth	norization	Other (Specify			
or	AA Designee	x	Repair Station	1	Pe	erson Approv anadian Airw	red by Transport corthiness Group				
	oval or Rejection		Certificate or Designation No.		Si	ignature of A	uthorized Individua	homs	6.	Plu	

Weight and balance or operating limitation changes shall be entered in the appropriate aircraft record. An alteration must Weight and balance or operating limitation changes shall be entered in 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.)

3/19/99 N55804, Piper PA28R-200, S/N 28R-7335291, TTAF: 4602.79 Engine: Lycoming 10-360-CIC S/N L-10609-51A, TTEng: 4602.79

Removed a Prestolite Model MZ4206 12volt starter. Installed a Sky-Tec model: 149-12LS, 12volt starter serial # F2L679915 in accordance with Sky-Tec installation drawing # 20130 Revision F, Dated 3/2/98 as per STC# SE00218NY. Using original starter cable and checking load draw to be less than the original starter. Unit to be cooled by convection and ram air in cowl inlet. No placards or Flight manual supplements were required. Amended Aircraft Weight and Balance and Equipment List to reflect change. Established this modification does not adversely affect any previous modification to aircraft. Aircraft test flown and operationally checked OK.

Pepartment of Transportation — Jederal Aviation Administration

Type Certificate

BEOD218NY

This surlificate, is seed to

Staples Holdings, Ltd. 433 Plainview Hurst, Texas 76054

while that the shange in the type design for the following product with the limitations and conditions of the Pederal Aviation performs specified horsen much the airworthiness orgainements of Part 33

Organal Product - Type Cortificator Number Make: Model:

See Page 2, Lycoming Engine Models

Textron Lycoming

See Page 2, Lycoming Engine Models

Georption of Typo I sign Change: eplacement of Lycoming starter with SKY-TEC 12-volt Starter Model 149-12PM, eplacement in accordance with SKY-TEC DWG. 20101 Bev B eplacement of accordance with SKY-TEC DWG. 20101 Rev B.

splacement of Lycoming starter with SKY-TEC 12-volt Starter Model 122-12PM, splacement in accordance with SKY-TEC DWG 20101 Rev eplacement accordance with SKY-TEC DWG 20101 Rev. B.

- 1) This approval is limited to aircraft with a 12-volt DC Source available to the
- 2) Configuration I is limited to SKY-TEC Starter Model 149-12PM used with a 149-Tooth engine ring gear and starter drive ratio of 13.55:1 and Configuration II is limited engine ring year and starter drive ratio of 13.35:1 and configuration 11 is limited to SKY-TEC starter model 122-12PM used with a 122-Tooth engine ring gear and starter

This coelificate and the supporting data which is the basis for approval shall remain in affect until surrendered, suspended, remeded, or a termination date is otherwise established by the Administrator of the

Federal Ariation Administration.

State of application: June 11, 1994

September 12, 1994 Late of wenonce

Jule wasund:

January 14, 1997

Tale amunded February 6, 1995, May 23, 1996 By direction of the Eddingenistrates

7:04 (Signature)

Anthony Socias Mgr. Airframe and

Propulsion Branch

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

Department of Transportation—Lederal Aviation Administration

Supplemental Type Certificate

(Continuation Sheet)

Number BE00218NY

Date Reissued: January 14, 1997

Models (Continued)

Lycoming Engine Models

TC E-286: 0-360 Series

TC E-26EA: TO-360 Series

TC 1E10: IO-360 Series; All Models except LIO, LHIO

TC 1E12: IO-320 Series; All Models except LIO-320 Series

TC E-274: 0-320 Series

TC E-233: 0-235 Series

TC E-229: 0-290 Series

TC E-295: 0-540 Series angles approached allow-the driv theresis of Desimil all layo TC 1E4: IO-540 Series; All Models except LIO, LHIO

TC EllEA: T10-541 Series

Description of Type Design Change:

Configuration III Replacement of Lycoming starter with SKY-TEC 12-volt Starter Model 149-12LS, in accordance with SKY-TEC DWG 20130 Rev. B.

Configuration IV Replacement of Lycoming starter with SKY-TEC 12-volt Starter Model 122-12LS in accordance with SKY-TEC DWG 20130 Rev. B

Limitations and Conditions (Cont.):

3. This approval should not be incorporated in any engine on these specific models on which other approved modifications are incorporated, unless it is determined that the interrelationship between this change and any of those previously incorporated approved modifications will not introduce any adverse effect upon the airworthiness of the engine.

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

FAA FORM 8110-2-1 (10-69)

This certificate may be transferred in accordance with FAR 21.47.

PAGE2 OF2 PAGES

US Department of Transportation Federal Aviation

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

Form Approved OMB No. 2120-0020

	For FAA Use Only	
ffice	Identification	

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 form 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). Make Piper PA-28R-200 1. Aircraft Nationality and Registration Mark Serial No. 28R-7335291 N55804 Name (As shown on registration certificate) Address (As shown on registration certificate) P.O. Box 2414/3311 Belmar BLVD Monmouth Area Flying Club Inc 2. Owner Farmingdale, NJ 07727 3. For FAA Use Only 5. Type 4. Unit Identification Alteration Repair Serial No. Make Model Unit X (As described in item 1 above) **AIRFRAME POWERPLANT** PROPELLER Type APPLIANCE Manufacturer 6. Conformity Statement C. Certificate No. B. Kind of Agency A. Agency's Name and Address U.S. Certificated Mechanic **OF1R372K** Foreign Certificated Mechanic Ocean Aire P.O. Box 1245 Toms River, NJ 08754 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. Signature of Authorized Individual Date 3-19-99 Kevin J. Stavola 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 Other (Specify) Inspection Authorization FAA Fit. Standards Manufacturer Inspector Person Approved by Transport BY Canadian Airworthiness Group Repair Station **FAA Designee** Signature of Authorized Individual homo P. Am Certificate or Designation No. Date of Approval or Rejection Thomas P. Rae **OF1R372K**

3-19-99

NOTICE

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, ellar in additional shoots. Hentily with aircraft nationality and registration mark and date work completed.)

3/19/99 N55804, Piper PA28R-200, S/N 28R-7335291, TTAF: 4602.79

Installed a new J. P. Instruments Inc. Model: 100-4C E.G.T./C.H.T. monitoring system serial number 3987. In accordance with "J.P. Instruments F.A.A. Approved installation manual # 102 "Revision D, Dated Jan 1,1987, as listed in J.P. Instruments Drawing list report No.100, Revision D, Dated 12/19/96 as per STC# SA2586NM using supplied wiring harness and a 1 amp inline fuse. Calculated additional electrical draw not to exceed total charging system capacity. Unit to be cooled by convection. Required placards and AFM supplement installed. Weight and Balance and Equipment List revised to reflect change. Determined this modification not to adversely affect any previous modifications. Ran up, test flew, and operationally checked system OK.

US Departmen

or 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 violation (Section 901 Federal Aviation Act of 1958).

for each su	ch violation (Sect	ion 901 Federal Avial	tion Act	t of 19	958).	port can result in a cr	vii penai	ty not to exce	
	Make	R			Model	DA 200 200	70	-114	
1. Aircraft	Serial No.	R	1000		The second secon	PA28R-200		3.70	
		7335291				ity and Registration N55804	Mark		
	Name (As show	n on registration cer	rtilicate)		(As shown on regist	ration ce	ertificate)	
2. Owner	KENTNIC	H WILLIAM J	III	I	W232	7 CARPERNTE N LAKE, WI	ER LA	NE #109	,
				3. F	or FAA Use Only	,			
				ŀ	,				-
				4. L	Init Identification			5. Type	
Unit		Make			Model	Serial No.		Repair	Alteration
AIRFRAME			As desc	ribed	in Item 1 above)				
POWERPLANT	LYCOMII	NG	I	[0-:	360-CIC	L-10609-	51A		x
PROPELLER									
	Туре								
APPLIANCE	Manufacturer								
w-			•	S. Co	nformity Statement				
A. Agency's N	ame and Address	1		B.	Kind of Agency		C. Cer	rtificate No.	
DONALD	J. DELAP	JR.		X	U.S. Certificated Mechan	ic			
N6308	ROLLING ME	EADOWS DRIV	E	_	Foreign Certificated MecI	hanic	A&P	393684	597
	J LAC, WI			-	Certificated Repair Statio	n			
0.1					Manufacturer				
Have Dee	n made in accord	or alteration made to ance with the require d correct to the best	ements	Of P	identified in item 4 above art 43 of the U.S. Federa rledge.	e and described on t al Aviation Regulation	he reversions and	se or attachm that the info	ents hereto
Date	12.04			Sig	nature of Authorized In-	dividual			
3-4	23-94				Sould J.	haroh	_		
Duran					al for Return To Service	AND REAL PROPERTY AND ADDRESS OF THE PARTY AND			
Administrate	or of the Federal A	en persons specifie Aviation Administrati	d belov on and	w, the	e unit identified in item	REJECTED	the ma	inner prescri	bed by the
	FII. Standards ector	Manufacturer	x	Insp	ection Authorization	Other (Specify)			
	Designee	Repair Station			on Approved by Transpo ada Airworthiness Group	rt			
3-23-	al or Rejection	Certificate or Designation No. 39368459	7	Sign	ature of Authorized Ind	Dec 1			

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

Description of Work Ascomplished

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

3-23-94

N 55804

instali brackett air filter assembly I/A/W STC 693CE.



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 violation (Section 901 Federal Aviation Act of 1958).

	Make				Model				
1. Aircraft	Piper Serial No.					A28R-200			
		335291				y and Registration 55804	Mark		
		n on registration cert	tificate)			As shown on regis	tration a	actificate)	
		ich, Willia			III 2	1W506 Cli	fton	Ave.	
2. Owner						len Ellyn			
	- Laboratoria			-			•		
				3. F	or FAA Use Only				
									-
			-	4. L	Init Identification	1		5. Type	
Unit	N	Make			Model	Serial No.		Repair	Alteration
AIRFRAME	****	••••••(A	As descr	ribed	in Item 1 above)				Х
POWERPLANT	Lycom	ing	(0-3	320-CIC	L10609-	51A		X
PROPELLER									
	Туре								
APPLIANCE	Manufacturer								
6		the state of the s	6.	Co	nformity Statement				
A. Agency's	Name and Address	1	الجال	B.	Kind of Agency		C. Cer	tificate No.	
The state of the s	en Kenseth			X	U.S. Certificated Mechanic				
	al Aviatio			12.00	Foreign Certificated Mecha	nic	39	7864578	}
	County Air	•			Certificated Repair Station				
ALC: NO PERSON NAMED IN COLUMN TO PERSON NAM	ville, WI				Manufacturer				
have be	en made in accord	or alteration made to lance with the require d correct to the best	ements	of P	identified in item 4 above a art 43 of the U.S. Federal rledge.	ind described on t Aviation Regulation	he revers ons and t	e or attachme that the infor	ents hereto mation
Date				Sig	nature of Authorized Indi	vidual			
03-23	-90				Stab Ken	seth	7	L /	
			7. App	prov	al for Return To Service				
Pursuant to Administra	the authority give tor of the Federal	ven persons specified Aviation Administration	d below on and	, the	e unit identified in item 4 Ø APPROVED □ RI	was inspected in	the mai	nner prescrib	ed by the
	A Fit. Standards spector	Manufacturer			ection Authorization	Other (Specify)			
	A Designee	Repair Station		Can	on Approved by Transport ada Airworthiness Group				
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NOTICE

132 A 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 and 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 Precise Flight Stand by Vaccuum Systems in accordance with S.T.C. number SA 2167NM Piper PA28R-200, S.T.C. number SE1779NM Lycoming engine and Precise Flight installation manual.

Department of Transportation — Federal Aviation Administration

Supplemental Type Certificate

Number SA2167NM

This cortificate, issued to

Precise Flight, Inc.

cortifies that the change in the type design for the following product with the limitations and conditions wetherefor as specified hereon meets the airworthiness requirements of Port * of the Regulations.

Original Product - Type Cortificate Number: * *See Approved Model List (AML) No. SA2167NM

Make: * for list of approved aircraft models and

applicable airworthiness regulations.

Description of Type Design Change: Installation of the Precise Flight Stand-By Vacuum System (SVS) Model SVS III in accordance with Precise Flight, Inc. Installation Instructions No. SVS III dated September 1, 1984, or later FAA approved revision. NOTE: As a prerequisite to this change, the engine must be modified in accordance with Precise Flight STC No. SE1779NM or SE1780NM, dated December 28, 1982, or later FAA approved revision. Also, modified aircraft must be equipped with a vacuum indicator.

Approval of this change in type design applies to the basic Piper models listed on the AML. This approval should not be Limitations and Gunditions: extended to other aircraft of this model 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. Airplanes equipped with this system must be operated in accordance with FAA Approved Airplane Flight Manual Supplement (AFMS) dated December 7, 1984, or later FAA approved revision. A copy of this Certificate, Addendum No. SA2167NM and FAA Approved AFMS must be maintained as part of the permanent records Mor cartificated a his the sippo atty date which is the basis for approvals hallow main in effect until sur-

rendered, suspended, rowked, or a termination date is otherwise established by the Administrator of the

Federal Ariation Administration.

Date of application: October 31, 1983

Sale ressured:

Solvefissione: November 7, 1983 Solvensed December 16, 1983; December 7, 1984;

August 17, 1989 By direction of the Stamministrator

Stewart Ranilles ((Signature)

Assistant Manager, Seattle 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.

Department of Transportation—Federal Aviation Administration Supplemental Type Certificate

(Continuation Sheet)

Number SA2167NM

CONDITIONS AND LIMITATIONS: (continued)

The conditions and limitations of the original Type Certificates apply exceptfollows:

This Continuation Sheet, which is part of STC No. SA2167NM, prescribes the continuation Sheet, which is part of STC was issued meets the airworthings the continuation of the continuation This Continuation Sheet, which is part of street meets the airworthiness require the appropriate regulations.

SUPPLEMENTAL TYPE CERTIFICATE HOLDER: Precise Flight, Inc.

I. Piper Model (as listed on AML) as modified by STC No. SA2167NM

The Airplane Flight Manual or Pilot's Operating Handbook Supplement be maintained in the airplane at all times.

Current weight and balance report including list of equipment in the NOTE 1:

certified empty weight must be in the aircraft.

NOTE 2: In addition to the Placards and Markings required by TCDS, Note 2, the following:

Equipment:

a) To be located on the push/pull control cable knob:



b) To be located around the LED bulb for the pump inoperative warning light:



Vinted Brates of America

Department of Transportation—Acderal Aviation Administration

Supplemental Type Certificate

(Continuation Sheet)

Number SA2167HM

CONDITIONS AND LIMITATIONS: (continued)

and the state

Place in front of and in full view of the pilot:

STANDBY VACUUM SYSTEM: FOR OPERATING INSTRUCTIONS AND LIMITATIONS SEE SUPPLEMENT IN OWNER'S MANUAL OR PILOT'S OPERATING HANDBOOK

One of the following placards must be placed in full view of the pilot near the instrument vacuum indicator after appropriate entries



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FAA APPROVED MODEL LIST NO. SA2167NM

PRECISE FLIGHT SVS

LIST OF ACTIVE PAGES

PAGE	AMENDMENT DATE
2	8/17/89
3	8/17/89
4	8/10/89
FAA APPROVED: Acting Mana	ger, Special Certification Branch craft Certification Office
Seattle Air	craft Certification Office

Department of Transportation—Federal Aviation Administration

Supplemental Type Certificate

Number SA2168NM

This certificate, issued to

Precise Flight, Inc. 63120 Powell Butte Rd. Bend, OR 97701

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 FAA Approved Model List (AML)

Make:

No. SA2168NM for list of approved airplane models

and applicable airworthiness regulations

Description of the Type Design Change. Installation of Precise Flight, Inc. Stand-By Vacuum System (SVS) in accordance with the appropriate Precise Flight, Inc. Engineering Drawing listed on FAA Approved Model List No. SA2168NM, dated May 4, 2000, or later FAA approved revision.

NOTE: As a prerequisite to this change, the lengthe must be modified in accordance with Precise Flight, Inc. STC No. SE1779NM or SE1780NM, dated April 21, 2000, or later FAA approved revision. Also, modified aircraft must be equipped with a vacuum indicator.

Limitations and Conditions. Approval of this change in type design applies to the above model aircraft only. This approval should not be extended to other aircraft of this model on which other previously approved modifications are incorporated unless it is determined by the installer 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 certificate, AML No. SA2168NM and the appropriate FAA Approved Flight Manual Supplement (AFMS) listed on AML No. SA2168NM 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 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 of the Federal Aviation Administration.

Date of application:

October 31, 1983

Date of issuance:

November 7, 1983

Date reissued

Date amended:

December 16, 1983; December 7, 1984;

August 18, 1989; May 4, 2000

TOMMOST RATION

(Signature

By direction of the Administrator

(Signature)

Acting Manager, Seattle 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.

Department of Transportation—federal Aviation Administration

Supplemental Type Certificate

(Continuation Sheet)

Number SA2168NM

CONDITIONS AND LIMITATIONS: (continued)

The conditions and limitations of the original Type Certificates apply except

This Continuation Sheet, which is part of Supplemental Type Certificate (STC) No. SA2168NM, prescribes the conditions and limitations under which the STC was issued and meets the airworthiness requirements of the Civil Air Regulations.

SUPPLEMENTAL TYPE CERTIFICATE HOLDER: Precise Flight, Inc.

Mooney Model (as listed on Approved Model List (AML)) as modified by STC I. No. SA2168NM

The Airplane Flight Manual or Pilot's Operating Handbook Supplement must be maintained in the airplane at all times. Equipment:

Current weight and balance report including list of equipement in the certified empty weight must be in the aircraft. NOTE 1:

In addition to the Placards and Markings required by TCDS 2A3 or A6SW, Note 2, apply the following: NOTE 2:

(a) To be located on the push/pull control cable knob:



(b) To be located around the LED bulb for the pump inoperative warning light:



Department of Transportation—Jederal Aviation Administration Supplemental Type Certificate

(Continuation Sheet)

Number SA2168NM

CONDITIONS AND LIMITATIONS: (continued)

(c) Place in front of and in full view of the pilot:

STANDBY VACUUM SYSTEM: FOR OPERATING INSTRUCTIONS AND LIMITATIONS SEE SUPPLEMENT IN OWNER'S MANUAL OR PILOT'S OPERATING HANDBOOK

(d) One of the following placards must be placed in full view of the pilot near the instrument vacuum indicator after appropriate entries have been made:

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Department of Transportation—Redecal Aviation Administration

Supplemental Type Certificate

Number SA2683NM

This certificate, issued to

Precise Flight, Inc. 63120 Powell Butte Rd. Bend, OR 97701

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 FAA Approved Model List (AML)

Make:

No. SA2683NM for list of approved airplane models

and applicable airworthiness regulations

Description of the Type Design Change. Installation of Precise Flight, Inc. Stand-By Vacuum System (SVS) in accordance with the appropriate Precise Flight, Inc. Engineering Drawing listed on FAA Approved Model List No. SA2683NM, dated March 17, 2000, or later FAA approved revision.

NOTE: As a prerequisite to this change, the iengine must be modified in accordance with Precise Flight, Inc. STC No. SE1779NM or SE1780NM, dated December 28, 1982, or later FAA approved revision. Also, modified aircraft must be equipped with a vacuum indicator.

Emitations and Conditions. Approval of this change in type design applies to the above model aircraft only. This approval should not be extended to other aircraft of this model on which other previously approved modifications are incorporated unless it is determined by the installer 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 certificate, AML No. SA2683NM and the appropriate FAA Approved Flight Manual Supplement (AFMS) listed on AML No. SA2683NM 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 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 of the Federal Aviation Administration.

Date of application: Date of issuance: October 31, 1983

November 7, 1983

Nate reissued:

Date amended:

December 16, 1983; December 7, 1984;

October 31, 1989; July 5, 1991

March 17, 2000



(Signature)

Acting Manager, Seattle 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.



U.S. DEPARTMENT OF TRANSPORTATION FEDERAL AVIATION ADMINISTRATION

Form Approved Budget Bureau No. 04-R060.1 FOR FAA USE ONLY

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August 30, 1989 FAA Form 337 (7-67)

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NOTICE

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

Installed Walker Engineering Co. air/oil separator in accordance with the instructions provided under SA3687WE and common practices

Changes to weight and balance data are negligible.

Supplemental Type Certificate

Number SAJ68TWE

This certificate is mad to Walker Engineering Company

earlifes that the change in the type duign for the following product with the limitations and constitions

thoughour specified horses much the airworthiness requirement of Profe 34 of the C1411 ALZ *Certification Basis is set forth on Type Certificate Data Sheet 2A13,

Original Product - Typo Cortificator Vumber: 2113

Make: Piper

Medal PA-28-140/150/160/180/131/181

PA-28S-160/180 and PA-28R-180/200

Generation of Typo Lasign Change:

Installation of an air/oil separator in accordance with FAA-sealed Walker Engineering Master Drawing List No. DLW-3000-6, Revision "N/C" or later FAA-sealed revisions.

Limitalians and Benditions: The approval of this change in type design applies basically to the above listed models only. This approval should not be extended to other specific airplanes of these models on which other previously approved modifications are incorporated unless it is determined by the installer that the interrelationship between this change and any of those other previously approved modifications will introduce no adverse effect upon the airworthiness of the above listed airplanes.

This emificale and the supporting date which is the basis for approved shall remain in effect until same rendered suspended rowherk or a termination date is otherwise established by the sildministrator of the

Federal Striction Stdministration.

Late of applications: May 22, 1978

Jul wound:

Sate firmano: July 19, 1978

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By diretion of the Administrates

All Willief, Aircraft Engineering Division

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

DEPARTMENT OF TRANSPORTATION FEDERAL AVIATION ADMINISTRATION

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

Form Approved Budges Bureau 3/2 FOR FA

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NOTICE

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

This loran C installation was accomplished in accordance with previously approved data "for duplication" for Joliet Avionics, Inc., Certificated Repair Station No. 3159, perletter from AGL-GADO-3 dated July 11, 1985 and the original approved installation is on file at this repair station.

Installed Northstar M-1 Loran C Receiver in accordance with Installation Manual P/N GM295 dated 1986 Revision D.

Installation was done using no steering information to a cDI needle. Loran C steering information connected to the autopilot with rotary switch indicating Nav #1, Nav #2 or loran with light to indicate when information is from loran.

Airfraft placarded "VFR only not to be used for primary navigation."

All work was done in accordance with AC43.13-1A Chapter 11, 13 & 15 and und AC20-121 Appendix 1 Paragraph 3. Weight and AC43.13-2A Chapters 2 8 Balance was computed and entered in appropriate aircraft paperwork.

Installed Trans Cal D120-P2-T S/N 57227 Encoder as per AC43.13-2A Chapter 2. This Encoder meets or exceeds requirements and specifications of TSO-C88 and is interconnected with Narco AT50 S/N 24382 Transponder TSO'd to C-74B or C and installed in accordance with Appendix 1 advisory Circular 43-6A. Encoder and narco AT-50 Transponder checked with IFR, ATC-600 Test Set in accordance with Part 43, Appendix "E" and "F" for compliance with 91.171 and FAR 91.172 this date.

Statis System tested in accordance with FAR of 171 and Part 43, Appendix "E" Paragraph (a) as required. Altimeters were also tested as required by FAR 91.171 in accordance with FAR 43 Appendix "E" paragraph (b). Weight and Balance was computed and entered in appropriate aircraft paperwork. -THE END-

Department of Transportation—Federal Aviation Administration

Supplemental Type Certificate

Number SE1779NM

This certificate, issued to

Precise Flight, Inc. 63120 Powell Butte Rd. Bend, OR 97701

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 33 of the Federal Aviation Regulations.

Original Product - Type Certificate Number:

*See attached FAA Approved Model List (AML)

Make: Model: No. SE1779NM for list of approved airplane models

and applicable airworthiness regulations

Description of the Type Design Change. Installation of Precise Flight, Inc. Standby Vacuum System SVS III, in accordance with Engineering Drawing 000V0000, Revision -, dated March 10, 2000, and Installation Reprot No. 50050, Revision 25, dated August 26, 1999, or later approved revision. Or Installation of Precise Flight, Inc. SVS V, in accordance with Precise Flight, Inc. Engineering Drawing 000V0000, Revision -, dated March 10, 2000 and Installation Instructions 08072, Revision -, dated December 12, 1999, or later FAA approved revision.

Limitations and Conditions: Approval of this change in type design applies to the above model aircraft only. This approval should not be extended to other aircraft of this model on which other previously approved modifications are incorporated unless it is determined by the installer 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 certificate, Addendum No. SE1779NM, and FAA approved AML No. SE1779NM, December 30, 1983, or later FAA approved revision, 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 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 of the Federal Aviation Administration.

Date of application: Date of issuance: December 13, 1982

December 28, 1982

Date reissued:

Date amended:

December 30, 1983; January 31, 1985;

July 25, 1990; January 31, 1991

April 21, 2000



By direction of the Administrator

(Signature

Acting Manager, Seattle 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.

Department of Transportation—Federal Aviation Administration Supplemental Type Certificate (Continuation Sheet)

Number SE1779NM

SUPPLEMENTAL TYPE CERTIFICATE ADDENDUM NO. SE1779NM The conditions and limitations of Type Certificate Data Sheet as listed in the attached AML apply except them.

attached AML apply except where superseded by the following:

This Supplemental Type Certificate Data Sheet, which is part of STC SE1779NM, prescribes the condition to the condition of th prescribes the conditions and limitations under which the product for which the STC was issued meets the simulations under which the product for Regulations was issued meets the airworthiness requirements of the Federal Aviation Regulations:

SUPPLEMENTAL TYPE CERTIFICATE HOLDER: Precise Flight, Inc.

Engines:

Lycoming

Fuel:

See Type Certificate Data Sheet

Engine Limits:

See Type Certificate Data Sheet

Placards:

Placards and Operating Limits on appropriate Type Certificate Data Sheet apply except as noted herein:

The following placard is mandatory on aircraft that are required to have POH/AFM's and must be located near instrument suction gauge in full view of pilot:

STANDBY VACUUM SYSTEM: FOR OPERATING INSTRUCTIONS AND LIMITATIONS SEE SUPPLEMENT IN OWNER'S MANUAL OR PILOT'S OPERATING HANDBOOK

NOTE:

This STC covers modification of the engine only. Installation of this system in an aircraft requires aircraft installations approval and system in an arrow and Pilot Operating Handbook Supplement associated Airplane Flight Manual and Pilot Operating Handbook Supplement for the installation.

For those airplanes which do not have an AFM/POH, the placards provided in each Precise Flight, Inc. Installation Kit must be installed with the modification.

-END-

APPROVED MODEL LIST NO. SELTITION

PRECISE FLIGHT STANDBY VACUUM SYSTEM LIST OF ACTIVE PAGES

	AMENDMENT DE
PAGE	08/22/90 12/28/82 12/28/82
1	12/28/82
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3	

FAA Approved:

Assistant Manager, Seattle Aircraft Certification Office

Amended: Septemb

September 9, 1990

Department of Transportation—Federal Aviation Administration

Supplemental Type Certificate

Number SA2167NM

This certificate, issued to

Precise Flight, Inc. 63120 Powell Butte Rd. Bend, OR 97701

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.

#See attached FAA Approved Model List (AML)

Make: No. SA2167NM for list of approved airplane model

Model: and applicable airworthiness regulations

No. SA2167NM for list of approved airplane models

Description of the Type Design Change: Installation of Precise Flight, Inc. Stand-By Vacuum System (SVS) in accordance with the appropriate Precise Flight, Inc. Engineering Drawing listed on FAA Approved Model List No. SA2167NM, dated May 4, 2000, or later FAA approved revision.

NOTE: As a prerequisite to this change, the engine must be modified in accordance with Precise Flight, Inc. STC No. SE1779NM or SE1780NM, dated April 21, 2000, or later FAA approved revision. Also, modified aircraft must be equipped with a vacuum indicator.

Limitations and Conditions: Approval of this change in type design applies to the above model aircraft only This approval should not be extended to other aircraft of this model on which other previously approved modifications are incorporated unless it is determined by the installer 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 certificate, AML No. SA2167NM and the appropriate FAA Approved Flight Manual Supplement (AFMS) listed on AML No. SA2167NM 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 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 of the Federal Aviation Administration.

Date of application:

October 31, 1983

Date of issuance:

November 7, 1983

Date reissued:

Date amended:

December 16, 1983; December 7, 1984;

August 17, 1989; May 4, 2000

Acting Manager, Seattle Aircraft Certification Office

Department of Transportation—Federal Aviation Administration

Supplemental Type Certificate

(Continuation Sheet)

Number SA2167NM

CONDITIONS AND LIMITATIONS: (continued)

Place in front of and in full view of the pilot:

STANDBY VACUUM SYSTEM: FOR OPERATING INSTRUCTIONS AND LIMITATIONS SEE SUPPLEMENT IN OWNER'S MANUAL OR PILOT'S OPERATING HANDBOOK

One of the following placards must be placed in full view of the pilot near the instrument vacuum indicator after appropriate entries have been made:

Apprex. Standby Yacuum Available - Altitude ...

Press.	RPM	Man. Press.	SVS Vacuum In. Hg. Min.
2000	Max cont.	100	Br. Carl
4000	Max cont	100	
8000	Max cent.	4 . 3	
8000	Max cont.	15	100
10000	Mex cent.	14.2	200

OR

Fo	Aircraft Wi	th Fixed Pitch Prop
Press.	RPM	SVS Vacuum In. Hg. Min.
2000		
4000	N. 1	
9000	Fig.	
9000	10 P	
10000	alt Extra	
		SV8-1

-END-

Department of Transportation—Federal Aviation Administration

Supplemental Type Certificate

(Continuation Sheet)

Number SA2167NM

CONDITIONS AND LIMITATIONS: (continued)

The conditions and limitations of the original Type Certificates apply except as follows:

This Continuation Sheet, which is part of STC No. SA2167NM, prescribes the conditions and limitations under which the STC was issued meets the airworthiness requirements of the appropriate regulations.

SUPPLEMENTAL TYPE CERTIFICATE HOLDER: Precise Flight, Inc.

I. Piper Model (as listed on AML) as modified by STC No. SA2167NM

The Airplane Flight Manual or Pilot's Operating Handbook Supplement must Equipment:

be maintained in the airplane at all times.

Current weight and balance report including list of equipment in the NOTE 1:

certified empty weight must be in the aircraft.

In addition to the Placards and Markings required by TCDS, Note 2, apply NOTE 2: the following:

a) To be located on the push/pull control cable knob:



To be located around the LED bulb for the pump inoperative warning b) light:

