6
US Department
of Transportation
Federal Aviation
Administration

## **MAJOR REPAIR AND ALTERATION**

OMB No. 2120-0020 Exp: 01/31/2023	Electronic Tracking Number
	For FAA Use Only
	TOT THE GOL OILLY

(Airframe, Powerplant, Propeller, or Appliance) INSTRUCTIONS: Print or type all entries. See Title 14 CFR §43.9, Part 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. §44701). Failure to report can result in a civil penalty for each such violation. (49 U.S.C. §46301(a)) Serial No. 34-7870004 Nationality and Registration Mark N47815 1. Aircraft Make Series **Piper** Name (As shown on registration certificate) Address (As shown on registration certificate) Address 34730 Oakland St. Fino Plane Co. 2. Owner Farmington State MI 48335-3337 Country USA Zip 3. For FAA Use Only 5. Unit Identification 4. Type Repair Alteration Unit Make Model Serial No. 34-7870004 Piper (As described in Item 1 above) AIRFRAME X POWERPLAN1 **PROPELLER** Туре **APPLIANCE** Manufacturer 6. Conformity Statement A. Agency's Name and Address B. Kind of Agency U. S. Certificated Mechanic Manufacturer Caleb J. Parket Address 2392 15th St. Foreign Certificated Mechanic C. Certificate No. State OH Certificated Repair Station City Cuyahoga Falls 3441383 USA Certificated Maintenance Organization Zio 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 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/Qate of Authorized Individual Extended range fuel per 14 CFR Part 43 App. B 7. Approval 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 Rejected Approved FAA Flt. Standards Persons Approved by Canadian Maintenance Organization Manufacturer Department of Transport Inspector BY Other (Specify) Inspection Authorization **FAA Designee** Repair Station Signature/Date of Authorized Individual Certificate or Designation No. 3441383

02/21/2023

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	N47815	February 21, 2023
	Nationality and Registration	
Installed Aeronautical Testing Servitex generators only) per manufacture 20, 1994. and STC#SA00109SE.	es Inc. vortex generator kit, Orrs instructions document No. I	ption 1, 2.0 Installation M94-3, Rev. A , dated
Weight and balance change is negl	gible.	
AFMS/POHS not required for Option	1.	
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Administration

Ex	ф: 5/31/2018	Electronic Tracking Number
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	on	(Airfrar	ne, Powerplan	t, Prop	eller	, or Appl	iance)				
instructions	and dispos	ition of this	form. This report	le 14 CF is requir	R §4: red by	3.9, Part 4: law (49 U.	3 Appendix B, a S.C. §44701). F	nd AC 43.9 ailure to rep	-1 (or sub ort can re	sequent revision thereof) for sult in a civil penalty for each	
			stration Mark			· · · · · · · · · · · · · · · · · · ·	Serial No.	4-78700	004		
1. Aircraft	Astronage						PA:	34	4 Series 200T		
	l			ate)			Address (As a	-	gistration o	certificate)	
2. Owner	FINOP	rane Co	3				City FARMI Zip 48335-	NGTON 3337	Count	State MI	
	- I				3. Fo	r FAA Use		· · · · · · · · · · · · · · · · · · ·			
4. Ty	ре			-	5. Un	it Identific	ation	***************************************	·		
Repair	Alteration	Uni	t	Ма	ke			Model		Serial No.	
	X	AIRFRAN	1E Piper				(As describe	ed in Item 1 a	above)	34-7870004	
		POWERF	PLANT								
		PROPEL									
		APPLIAN	"	<del> </del>							
A A	I			6.		ormity Sta					
		ddress			-	nd of Agend	ated Mechanic		Mani	ıfacturer	
							ificated Mechanic		C. Certific		
		untry USA	State MI		<del></del>		Repair Station Maintenance Organ	ization		2725134	
have be	en made in	accordance	e with the requirem	ents of F	i) ideni Part 4:	tified in item 3 of the U.S	5 above and de	scribed on the	ne reverse	or attachments hereto t the information	
			Signature/Date of	M	2		7/16/20	19			
Pursuant +	n the author	rity given	nersons specifica				to Service	vas inenest	ad in the	manner prescribed by the	
Administrat	or of the Fed	deral Aviati			,		Approved	Rejecte	d		
1 1 1	A Flt. Stand spector	lards	Manufacturer		Main	itenance Oi	ganization	Depar	tment of Tra	d by Canadian ansport	
	A Designee		Repair Station	X	Insp	ection Auth	orization	Other (Spec	cify)		
Certificate or Designation N	lo. 27251	34	Signature/Date of	Authoriz	zed Ind	dividual	7/16/	2019	•		

<ol> <li>Description of Work Accomplished (If more space is required, attach additional sheets. Identify with</li> </ol>	aircraft nationality and registration mar	rk and date work completed.)
	N47815	7/16/2019
	Nationality and Registration	on Mark Date
Installation of J.P. Instruments (JPI) EDM-960 accordance with the Installation Manual for the February 22, 2009 or later FAA approved revisithe Insight G4 engine analyzer including all probalance.	e EDM-960, Report No. 9 sion. Installed IAW STC s obes, wiring harness. No	909, Revision NC, dated SA01828SE. Removal of
	END	
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I		
Additi	ional Sheets Are Attached	

	US Department
	of Transportation
	<b>Federal Aviation</b>
•	Administration

Form Approved OMB No. 2120-0020 2/28/2011	Electronic Tracking Number
F	or FAA Use Only

Administratio	ın					_						
instructions	and dispos		n. This report is r									on-thereof)-for
		lity and Registra					Serial N	No.				
	USA	N47815					34-78	70004				
1. Aircraft	Make			-	-	-	Model			18	Series	
	Piper							1-200T				
······································		As shown on rec	gistration certifica	ate)					wn on n	egistratio	n certificate	1
		lane Co.	groti ation dortino	,,,,			Address				n continuato,	<b>'</b>
2. Owner							City	Farmin				State Mi
		THE CATHLE	ALTOTIC DE LOCA				Zip	48335-	3337	Country	USA	
			ALTERNATION IDE							· · · · · · · · · · · · · · · · · · ·		
		APPL IS APP	PROVEDENE	E AD	CAR.		REMENTS	Co	BORK IN	ATE	WITH (	Chicago Aco,
					20.45	$rac{1}{2}$					AN, 5-	
	•	· GOA	THORIZED BY	APH P	'ARI	43 BECTIO	DN 43-7 (		Coli	COM IZ	(ma ) 0 .	
		DATE: 5-6	2-2017 PM	MOR	On	OR KILL						
· · ·		T				- EMITS	O AGL PO					
4. Ty	/pe		1		5. U	nit Identific	ation				1	
Repair	Alteration	Unit		Make	9			Мо	del			Serial No.
	X	AIRFRAME					( As desc	ribed in It	em 1 ab	oove)		
. \	X	POWERPLAN	Г			_						
		PROPELLER		,								
<del>grade et el</del>	- <del> </del>		Type		10 1	1 1 1 1 1 1 1					`	
	η Πη <sub>η,</sub> .	APPLIANCE	Type  Manufacturer		ž 45.	. १ वे. १ वे. वे. १ वे. १ वे	CHIEF THE	د در از از در سال در زرانو مد در	en Program	a Alexandra Alexandra	-	
et.									,			
				6.	Co	nformity St	atement					
A. Agency's						Kind of Age		·····				
	Sky Aviation				X		ted Mechanic				ufacturer	
	3 Stockeme		C4-4- 8.41	-			icated Mechan	iic		C. Certi	ficate No.	
		Country USA	State Mi	_		Certificated R Certificated N	lepair Station laintenance Or	ganization		369	544480	
have bee	en made in a	accordance with rue and correct t	ion made to the the requirement o the best of my	s of F know	Part /ledo	43 of the U. ge.						
Extended rar per 14 CFR I	•	Sign	ature/Date of Au	thoriz	ed I	Individual		5/19	/2	~ / <del>7</del>	٠.	
Арр. В			Dieson	10	$\leq$	me		3/19		<i>)</i>		
				Арр	rov	al for Retur	n to Servic	:e				
			is specified below dministration and		uni	t identified	in item 5 w ⊅ Approv		ted in t Reje		ner prescribe	ed by the
l In	AA Flt. Stan	dards Ma	nufacturer		Mai	ntenance O	rganization		Persor Depart	ns Approved Iment of Tra	d by Canadian Insport	
BY	AA Designe	e 'Re	pair Station	p	Ins	pection Autl	norization	Oth	er (Spe	cify)	• •	
Certificate or	Designatio	n No. Sigr	nature/Date of Au	uthori	zed	Individual		5/24	1/20	12		
FAA Form	337 (40 ne)	1 1 gg	siegog	<u> </u>	=	MAN	h	7-7		17		
I AA CUIII	: (10-00)											

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.

Carrier to a line

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US Department
of Transportation
<b>Federal Aviation</b>
Administration

OMB No. 2120-0020 Exp: 5/31/2018	Electronic Tracking Number
	For FAA Use Only

INSTRUCTIONS: Print or type all entries. See Title 14 CFR §43.9, Part 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. §44701). Failure to report can result in a civil penalty for each such violation. (49 U.S.C. §46301(a)) Nationality and Registration Mark Serial No. 34-7870004 N47815 1. Aircraft Make Model Series **Piper** Seneca II Name (As shown on registration certificate) Address (As shown on registration certificate) 34730 Oaldand Street 2. Owner Fino Plane Co. City Farmington State Michigan 48335 Country United States 3. For FAA Use Only 4. Type 5. Unit identification Repair Alteration Unit Make Model Serial No. 34-7870004 (As described in Item 1 above) AIRFRAME X POWERPLANT PROPELLER **APPLIANCE** Manufacturer 6. Conformity Statement A. Agency's Name and Address B. Kind of Agency Eric J. Jaroch U. S. Certificated Mechanic Manufacturer Address 5218 E. Houghton Lake Orive Foreign Certificated Mechanic C. Certificate No. Michigan City Houghton Lake Certificated Repair Station 385847988 United States 48629 Zho Country Certificated Maintenance Organization 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 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 Extended range fuel per 14 CFR Part 43 3-19-17 App. B 7. Approval 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 x Approved Rejected FAA Fit. Standards Persons Approved by Canadian Manufacturer Maintenance Organization Inspector Department of Transport BY Other (Specify) **FAA Designee** Repair Station Inspection Authorization Certificate or Signature/Date of Authorized Individual Designation No. 385847988 3-19-17

8. Description of Work Accomplished (If more space is required, attach additional sheets. Identify with aircraft nati	ionality and registration mark and date	e work completed.)
	N47815	3-19-2017
	Nationality and Registration Mark	Date
Removed original engine cowl nosebowls. Installed L Part Number: LSM-200-400-1(2 each) and Part Number Supplemental Type Certificate Number SA1206AT. In Seneca Nosebowl Installation Instructions LSM-200-2 Speed Merchants Master Drawing List Report No. 37 AC43.13-2A and 1B. Instructions for Continued Airwopermanent records. There is no change in weight and END-	ber: LSM-200-400-2(2 eanstallation was performed 1902, Revision F, Dated 0: 17, Revision F, Dated 12-1 19 printent or installed in the control of the contro	nch) issued under If in accordance with 2/03/10 and LoPresti 7-12 and If the aircraft
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la de la companya de La companya de la co		
Additional Sheets		

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

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

Federal Aviation	י חכ	AIITI	rame	, Ρ	owerplant, Pro	ope	eller, or	Appliance	)			
INSTRUCTI instructions such violation	and dispos	iltion o	of this fo	orm	s See Title 14 CFR § This report is required	43 9 d by	9, Part 43 Ap law (49 U S	pendix B, and A C §44701) Fai	C 43 9-1 llure to re	(or su eport c	bseque an resu	ent revision thereof) for ult in a civil penalty for each
•	Nationality N4781	and Re			ırk		Senal No 34~7870004					
1. Aircraft	Make PIPER							Model Series PA-34-200T				s
2. Owner	Name (As FINO		_		on certificate) ANY			Address (As shown 34730 OAKL FARMINGTON 48335 USA	AND ST		ertificate	e)
						3	. For FAA L	lse Only				
4 Туј	pe					5.	Unit Identif	ication				
Repair	Alteration	ation Unit Make			Model					Serial No		
	X	AIRFRAME				(As described in Item 1 above)			ve)			
		POW	/ERPL/	ANT								
		PRO	PELLE	R								
		APPL	LIANCE	E	Type Manufacturer							
						6.	Conformity	Statement				
A Agency's			ess			1	B Kind of A				1	f
PREFERRED AVIONICS & INSTRUMENTS LLC 3679 Bowen Road Howell, MI 48855 USA			U.S. Certificated Mechanic Man Foreign Certificated Mechanic C. Certifi			ufacturer icate No						
			x	Certificate	Certificated Repair Station  YPCR724X - RADIO 1, 2, 3 LIM A/F - INST 1, 2, 3, 4							
have be	en made ir	n accor	rdance	with	ion made to the unit(s) the requirements of P to the best of my know	art 4	43 of the U 3	n 5 above and de 5 Federal Aviatio	escribed on Regu	on the	revers and th	e or attachments hereto at the information
Extended rang per 14 CFR P App B			S	Signat	ture/Date of Authorized Int	Hividi	ial	7		-		RANDALL WELLER 05-May-2016
								n to Service				
					ns specified below, t Administration and is		unit identifie X Ap			cted in ejected	n the r	manner prescribed by the
Ins	A Fit Standa pector	ırds		Manu	ufacturer	Mai	ntenance Orga	anization	De	epartme	pproved nt of Tra	l by Canadian insport
BY	A Designee		"-		er Station	^	pection Authori	zation	Other (S	pecify)		
Certificate or Designation YPCR724X			S		ture/Date of Authorized in	100	ial //					RANDALL WELLER 05-May-2016

FAA Form 337 (10-06)

8. Description of Work Accomplished (If more space is required, attach additional sheets—Identify with aircraft national	ality and registration mark and date work co	mpleted )
	N47815	May-05-2016
INSTALLED EQUIPMENT -SANDIA SAI-340 ARTIFICIAL HORIZON	Nationality and Registration Mark	Date
The customer supplied equipment was installed using Sandia Install Manual Chapters 7, 10, 11, 12 and FAA AC43 13 2B Chapter 11 and current FARS	P/N 306181-00 Rev. 2 dated 1/22/2016 an	d FAA AC43 13 1B
Weight & Balance Change Negligible		
A complete functional test was performed in accordance with manufacturers ins # 306181-00 Rev. 2 dated 1-22-16 The equipment performed satisfactorily and aircraft	tallation manual Sandia Aerospace SAI-34 I did not adversely effect existing componer	10 Install Manual Doc ats or systems in the
Sandia FAA Approved AFMS was given to customer.		
INSTRUCTIONS FOR CONTINUED AIRWORTHINESS.  To insure the system accuracy, all equipment listed above must be checked in a 306181-00 Rev 2 dated 1/22/2016 Reference Section 4 - ICAW This section is proper unit functionality and performance on anon-going basis	s to be utilized by approved mechanics and	are required to ensure
end		
☐ ADDITIONAL SHEETS A	DE ATTACHED	

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of Transportation
Federal Aviation
Administration

Form Approved OMB No. 2120-0020	Electronic Tracking Number

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INSTRUCTIONS: Print or type all entries. See Title 14 CFR §43.9. Part 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. §44701). Failure to report can result in a civil penalty for each such violation. (49 U. S. C. §46301(a)) Nationality and Registration Mark Serial No. N47815 34-7870004 1. Aircraft Make Model Series PIPER PA-34-200T Name (As shown on registration certificate) Address (As shown on registration certificate) FINO PLANE CO 34730 OAKLAND ST. 2. Owner FARMINGTON, MI 48335 USA 3. For FAA Use Only 4. Type 5. Unit Identification Repair Alteration Unit Make Model Serial No. **AIRFRAME** X (As described in Item 1 above) **POWERPLANT PROPELLER** APPLIANCE Manufacturer 6. Conformity Statement A. Agency's Name and Address B. Kind of Agency Huron Avionics, Inc. U. S. Certified Mechanic Manufacturer 140 N. AIRPORT DR. H4NR191N Foreign Certified Mechanic C. Certificate No. KIMBALL, MI X | Certified Repair Station H4NR191N 48074 USA Certified Maintenance Organization 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 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. Extended range fuel Signature/Date of Authorized Individual WILLIAM C MCKELVEY per 14 CFR Part 43 App. B 08-October-2015 7. Approval 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 X Approved Rejected FAA Fit. Standards Persons Approved by Canadian Department of Transport Manufacturer ..... Maintenance Organization, Inspector BY Other (Specify) FAA Designee X Repair Station Inspection Authorization Certificate or Signature/Date of Authorized Individual Designation No. WILLIAM C MCKELVEY winch H4NR191N 08-October-2015

3. Description of Work Accomplished		<del></del>
(If more space is required, attach additional sheets. Identify with aircraft nationalit	y and registration mark and date work co	ompleted.)
**************************************	N47815	Oct-08-2015
	Nationality and Registration Mark	Date
A.1. REMOVED THE EXISTING GARMIN GTX32 MODE C TRANSPONDER.		
B.1. INSTALLED GARMIN GDL88 ADS-B UAT TRANSCEIVER WIRED TO THE DISPLAY TRAFFIC AND WEATHER ALL I.A.W. STC# SA02119SE.	EXISTING GARMIN GTN750/650 GPS/I	NAV/COM'S TO
2. INSTALLED GARMIN FLIGHTSTREAM 210 WIRED TO THE GARMIN GTN: TRANSCEIVER.	750/650 GPS/NAV/COM'S AND THE GE	DL88 ADS-B
3. INSTALLED GARMIN GTX33ES MODE S TRANSPONDER I.A.W. STC# SA SSD120-30A ALTITUDE ENCODER.	A0714WI AND WIRED TO THE EXISTIN	G TRANS-CAL
C.1. ALL WORK COMPLETED I.A.W. AC43-13-1B CH 11-12 ALL APPLICABLE I PARAGRAPHS, AC20-138A AND MANUFACTURERS INSTALLATION MANUA		ALL APLLICABLE
2. CONDUCTED ELECTRICAL LOAD ANALYSIS AND THE INSTALLED EQUI AIRCRAFT ELECTRICAL SYSTEM.	PMENT HAS NO EFFECT ON THE INT	EGRITY OF THE
3. INCLUDED GARMIN DOCUMENTS: INSTRUCTIONS FOR CONTINUED A OUT LOGS IN THE AIRCRAFT MAINTENANCE RECORDS.	RWORTHINESS AND SYSTEM CONFI	GURATION / CHECK
4. NEW AIRCRAFT WEIGHT AND BALANCE COMPUTED AND EQUIPMENT		
**************************************	D*************************************	******
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☐ ADDITIONAL SHEETS AF	RE ATTACHED	

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US Department
of Transportation
Federal Aviation
Administration

OMB No. 2120-0020 Exp: 5/31/2018	Electronic Tracking Number
	For FAA Use Only

us	Department	i		MAJO	R REPAIR A	MD	AL	TERATION	4		<u> </u>		For FAA Use Only	
of Transportation (Airframe, Powerplant, Propeller, or Administration						er, or Appl	lance)		<u> </u>					
ins	structions	IONS: Print and dispos on. (49 U.S	ition of	this form	es. See Title 1 . This report is :	14 CF requir	R §	43.9, Part 43 ry law (49 U.)	3 Appendio S.C. §4470	x B, a: 01). F	nd AC 43.9 ailure to rep	-1 (or sui ort can re	bsequent revision thereof) for each	
1 4	rcraft	Nationalit N47815		egistratio	n Mark		Serial No. 34-7870004							
Piper								•	Model	PA:	34-20	OT	Seneca II	
Name (As shown on				tration certificate	)			Address (As shown on registration certificate) Address 34730 Caldend St.						
2.0	wner	Fino P	lane	Co.					City	Farmin		State Michigan		
										48335		Cour	ntry United States	
<del> </del>	<del></del>	· · · · · · · · · · · · · · · · · · ·					3. F	or FAA Use	Only					
4. Type 5. U						init identifica	ation							
R	epair	Alteration		Unit	Make			Model			Serial No.			
<u> </u>		X AIRFRAME		Piper			(As described in Item 1 above)			34-7870004				
		POWERPLANT												
			PROP	ELLER										
			APPLI	ANCE	Type Manufacturer							·		
	nency's N	Name and A	ddraec		····	- 6		informity Sta					···	
Name	Eric J.		001699	<del> </del>			x I	Kind of Ageno U.S. Certific		nic	<del></del>	Mar	nufacturer	
Addres		errow Road					Foreign Certificated Mechanic						icate No.	
cary	Hought	ton Lake			State Michigan			Certificated Repair Station						
Zip	48629	Car	untry Un	ited States			Certificated Maintenance Organization					385847988		
D.	have be	en made in	accorda	ance with correct t	the requirement to the best of my	ts of I	Part · vledg	43 of the U.S je.	5 above a . Federal A	and de Aviation	scribed on to n Regulation	ne revers as and tha	e or attachments hereto at the information	
	nded ran 14 CFR P . B	•		Sign		Date of Authorized Individual  Each 6-11-15								
								al for Return						
Pu Ad	rsuant to ministrate	o the author of the Fed	ority giv	ren perso lation Ad	ons specified b ministration and	elow, is	the		ed in iter x Approve		vas inspecte Rejecte		e manner prescribed by the	
BY		A Fit. Stand spector	lards	Mar	ufacturer		Ma	intenance Or	ganization		Depar	Persons Approved by Canadian Department of Transport		
		A Designee			air Station	X	<u> </u>	spection Auth	orization		Other (Spec	afy)		
Certif Desig	ficate or gnation N	io. 38584	7988	Sign	ature/Date of Au	thoriz 2	ed II	ndividual	rl	- 4	6-11-1	5		

8. Description of Work Accomplished (If more space is required, attach additional sheets. Identify with aircraft nati	ionality and registration mark and date	work completed.)
	N47815	June 11, 2015
•	Nationality and Registration Mark	Date
Installed new Knots 2U, Ltd. Left and right wing root f Certificate No. SA1238GL. Installation was performed No. 34WR-M, Issue Date: 7-4-87, Rev. D, Rev. Date: Knots 2U, Ltd. Piper PA-34 Wing Root Fairing Installarecords. Instructions for Continued Airworthiness wer weight and balance records were updated to reflect the second statement of	d in accordance with Kno 3-31-10 and AC43.13 18 ation and Maintenance M te inserted into the aircraf	ts 2U, Ltd. Manual 3 and 2A. Inserted anual with aircraft
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Additional Sheets	s Are Attached	

<b>US Department</b>
of Transportation
<b>Federal Aviation</b>

Exp: 5/31/2018	Electronic Tracking Number
	or FAA Use Only

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i ii	nstructio	CTIONS: Print ons and dispos lation. (49 U.S	ition of th	is form.	es. See Title 14 This report is re	4 CF equir	R §	343.9, Part 43 by law (49 U.	3 Append S.C. §447	ix B, and 701). Fai	AC 43.9 ture to rep	-1 (or s	subsequent revision thereof) for result in a civil penalty for each		
	Aircraft	Nationalit N4781	•	jistratio	n Mark										
	MICIAIL	P	iper						Model	PA3	4-20	Seneca II			
		1 '		•	ration certificate)	1			1	-	,	gistratio	n certificate)		
2. (	Owner	Fino P	Plane C	o.					City	Farmingto			State Michigan		
					· · · · · · · · · · · · · · · · · · ·				Zip	48335		Cc	ountry United States		
							3.1	For FAA Use	Only	- <del></del>	***************************************				
	4.	Туре					5. L	Unit Identifica	ation						
	Repair	Alteration	Unit			Ma	ke		Model				Serial No.		
		X	AIRFRAME Piper					(As described in Item 1 above			above)	34-7870004			
			POWER	PLANT	ANT										
L			PROPE	LER											
			APPLIA	NCE	Type  Manufacturer										
_	Agonad	la Mama and A	ddmaa			6	_	Informity Sta							
A. Agency's Name and Address Name Eric J. Jaroch							X	B. Kind of Agency  x U. S. Certificated Mechanic					anufacturer		
i		O Sperrow Road				_	H	<u> </u>					ertificate No.		
City	Ho	ughton Lake	<del></del>		State Michigan	_		Certificated Repair Station							
Ζφ	486	329 Co	untry Unite	d States				Certificated Maintenance Organization 3858					385847988		
С	have	e been made in	accordan	ce with correct t	the requirements o the best of my !	s of I knov	Part vled	43 of the U.S ge.	5 above . Federal	and desc Aviation	ribed on t Regulation	he reve ns and t	rse or attachments hereto hat the information		
Extended range fuel Signature/Date of Author per 14 CFR Part 43 App. B					G	-	efle		6-1	1-15					
۱,	Duren see	to the suff-	ority -b				_	ral for Return							
Ĺ	dminist	rator of the Fed	deral Avia	i perso	ninistration and is	::W, S	une	z urni ideniii	Approv	ed [	s inspect Rejecte		the manner prescribed by the		
BY		FAA Fit. Stand Inspector	lards	Man	ufacturer		Ma	aintenance Or	ganizatio		Depar	tment of	oved by Canadian Transport		
		FAA Designee				X		spection Auth	orization	O	ther (Spe	cify)			
Cer Des	tificate ( signation	or n No. 38584	7988	Signa	ature/Date of Auti	horiz	ed I	Individual	l	6	-11-1	5			

<ol> <li>Description of Work Accomplished (If more space is required, attach additional sheets. Identify with aircraft nation</li> </ol>	nality and registration mark and date	work completed.)
	N47815	June 11, 2015
	Nationality and Registration Mark	Date
Installed new LoPresti SpeedMerchants Speed Spats Type Certificate No. SA00073AT. Installation was perf Drawing List, Report No. 6, dated July 31, 1992 or late 09-09-13 and AC43.13 1B and 2A. Speed Spats kit incorporate fairing(1 each), LSM-200-005-2 Right forward fairing(1 each), LSM-200-005-4 Right aft fairing(1 each were inserted into the aircraft records. The aircraft wei reflect this alteration.	formed in accordance with FAA approved Revision cludes the following: LSM fairing(1 each), LSM-20 n). Instructions For Continuations	th LoPresti Master n and Rev. C, n-200-005-1 Left 0-005-3 Left aft nued Airworthiness
END		
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Additional Sheets	Are Attached	

US Department
of Transportation
Federal Aviation
Administration

Ехф: 8/31/201	0-0020 Electronic Tracking Number
	For FAA Use Only

	ministration				•	•		•	•				
ins	structions	ion. (49 U.S	sition of thi S.C. §4630	is form. 11(a))	. This report is r	4 CF requir	R	§43.9, Part 43 by law (49 U.	S.C. §44701	1). Failu	re to rep	ort can n	absequent revision thereof) for result in a civil penalty for each
4 6	Ircraft	N47815	y and Reg 5	istratio	n Mark		Serial No. 34-78			7870004			
1. ~	TCTAIL		iper						Model P	Seneca II			
2. 0	wner	Name (As shown on registration certificate) Fino Plane Co.						Address (As shown on registration of Address 34730 Oakland St.  City Farmington					·
<u>-</u> -									'	48335		Cour	State Michigan  ntry United States
							3.	For FAA Use	Only				
4. Type							6.	Unit identifica	ation				
R	lepair	Alteration	on Unit		Make					М	odel	Serial No.	
		×	AIRFRAI	ME					(As described in Item 1 above)				
			POWER										
			PROPEL	.LER									
-	<b>.</b>		APPLIAN	APPLIANCE Manufacturer			-						
Λ Δ.	zanave t	Nome and A				6.		onformity Sta	·				
A. A		Name and Ad	ddress				-	. Kind of Agenc		1_	<del></del>	<del></del>	
Addres		errow Road					ļ^						nufacturer ficate No.
City		ton Lake			State Michigan			Certificated Repair Station					
Zip	48629	<del></del>		d States					Vaintenance (				385847988
D.	nave be	een made in	accordan	ce with correct to	the requirement to the best of my	ts of F know	Part	rt 43 of the U.S dge.	5 above an . Federal Av	nd descri viation R	bed on ti egulation	he revers is and tha	se or attachments hereto at the information
	nded ran 14 CFR P . B			Signa	ature/Date of Aut	ml	_	_ 4-	-2-15				
Dec		- the guilbu						oval for Return					
Ad	ministrati	or of the Fed	deral Aviat	ion Adı	ons specified be ministration and	elow, is	. th		ied in item x Approved		inspecte Rejecte		e manner prescribed by the
ву		A Fit. Stand spector	ards	Man	ufacturer		М	faintenance Or	ganization		Depar	tment of T	red by Canadian Transport
		AA Designee		<del> </del>	air Station	X	<u> </u>	nspection Author	orization		ner (Spec	:лу) 	
Desig	ficate or gnation N	10. 38584	7988	Signa	ature/Date of Aut	thoriz M	ed	//	-2-15				

8. Description of Work Accomplished (If more space is required, attach additional sheets. Identify with aircraft natio	nality and registration mark and date	work completed.)
	N47815	April 2, 2015
Removed aircraft battery Part Number: 450 025 and installed C	Nationality and Registration Mark	Date
Removed aircraft battery Part Number: 450-035 and installed new Con 40712533 issued under Supplemental Type Certificate No. SA01147W Installation was performed in accordance with Concorde Drawing: 5-0 and 2A. Instructions for Continued Airworthiness were inserted in the accordance with Concorde Drawing: 5-0 and 2A. Instructions for Continued Airworthiness were inserted in the accordance with Concorde Drawing: 5-0 and 2A. Instructions for Continued Airworthiness were inserted in the accordance with Concorde Drawing: 5-0 and 2A. Instructions for Continued Airworthiness were inserted in the accordance with Concorde Drawing: 5-0 and 2A. Instructions for Continued Airworthiness were inserted in the accordance with Concorde Drawing: 5-0 and 2A. Instructions for Continued Airworthiness were inserted in the accordance with Concorde Drawing: 5-0 and 2A. Instructions for Continued Airworthiness were inserted in the accordance with Concorde Drawing: 5-0 and 2A. Instructions for Continued Airworthiness were inserted in the accordance with Concorde Drawing: 5-0 and 2A. Instructions for Continued Airworthiness were inserted in the accordance with Concorde Drawing: 5-0 and 5-0 a	I and FAA/PMA Supplement No. 142, Revision J, dated February aircraft records.	o. 50, dated 03/07/03. 20, 2007 and AC 43.13, 1B
	•	
Additional Sheets	Are Attached	

US Department
of Transportation
<b>Federal Aviation</b>
Administration

OMB No. 2120-0020 Exp: 8/31/2014	Electronic Tracking Number
	For FAA Use Only

INSTRUCTIONS: Print or type all entries. See Title 14 CFR §43.9, Part 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. §44701). Fallure to report can result in a civil penalty for each such violation. (49 U.S.C. §46301(a)) Nationality and Registration Mark Serial No. 34-7870004 N47815 1. Aircraft Make Series **Piper** Seneca II Name (As shown on registration certificate) Address (As shown on registration certificate) Address 34730 Oakland St. Fino Plane Co. 2. Owner City Fermington State Michigan Zin 48335 Country United State 3. For FAA Use Only 4. Type 5. Unit Identification Repair Alteration Unit Make Model Serial No. AIRFRAME (As described in Item 1 above) х **POWERPLANT** PROPELLER Type **APPLIANCE** Ш Manufacturer 6. Conformity Statement A. Agency's Name and Address B. Kind of Agency Eric J. Jaroch U. S. Certificated Mechanic Manufacturer Address 10650 Sperrow Road Foreign Certificated Mechanic C. Certificate No. State Michigan City Houghton Lake Certificated Repair Station 385847988 **United States** Zip Country Certificated Maintenance Organization 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 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 Extended range fuel per 14 CFR Part 43 4-2-15 App. 8 7. Approval 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 Rejected FAA Flt. Standards Persons Approved by Canadian Maintenance Organization Manufacturer Inspector Department of Transport ΒY Other (Specify) **FAA Designee** Repair Station Inspection Authorization Certificate or Signature/Date of Authorized Individual Designation No. 385847988 4-2-15

	N47815	April 2, 2015					
	Nationality and Registration Mark	Date					
moved Brackett engine air filter assemblies BA-104 from left and right engines. Installed new Challenger Aviation Products, air filter assembly Part Number: CPE1957(2 each) and gasket Part Number: CP2102(2each). Installation was performed in cordance with Challenger Installation Instructions #0402, Issue Date: May 5, 2010, Revision O and AC43.13 !b and 2A. allenger Air Filter Instructions for Continued Airworthiness, Issue Date: May 5, 2010, Revision E, Document No. 4003 were erted into the aircraft records. There is no change in weight and balance with this alteration.  END———————————————————————————————————							
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US Department
of Transportation
<b>Federal Aviation</b>
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## MAJOR REPAIR AND ALTERATION

OMB No. 2120-0020 Exp: 8/31/2014	Electronic Tracking Number
	For FAA Use Only

of	US Department of Transportation For FAA Use Only  (Airframe, Powerplant, Propeller, or Appliance)													
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ın	estructions	ion. (49 U.S	sition of thi S.C. §4630	s form. I(a))	This report is re	4 CF equir	FR §4 red by	43.9, Part 4 y law (49 U.	3 Appendix B, a S.C. §44701). F	nd A ailún	C 43.9 e to rep	⊢1 (or sut oort can re	sequent revision thereof) for sult in a civil penalty for each	
Nationality and Registration Mark N47815 Make Piper							Serial No.	4-7	870	004				
							PA34-200T			0T	Seneca			
	31144			•	ration certificate)			Address (As shown on registration certificate)						
2. C	Owner	Fino F	Plane C	0.	• *		Address 34730 Oaklan City Farmington			nd Street	State Michigan			
_									Zip 48335			Count	try United States	
$\vdash$	3. For FAA Use Only													
	4. Ty	ре					5. U	nit identific	ation					
ļ.	Repair	Alteration	Un	it , ,	s in a second	Ma	ke			Мо	del		Serial No.	
		x	AIRFRAN	/E				(As described in I			item 1	ebove)		
			POWER								The part of the same			
Ŀ			PROPEL				· ·				• :	34.	100 100 100 100 100 100 100 100 100 100	
			APPLIAN	CE	Type. Manufacturer			er general en	,				man	
						6	. Con	formity Sta	tement					
⊢		Name and A	ddress				<del></del>	ind of Agen						
Name	e Enc J. 10650 Sp	Jaroch errow Roed				—	X		U. S. Certificated Mechanic Manufacturer  Foreign Certificated Mechanic C. Certificate No.					
City		ton Lake			State Michigan		+		Repair Station			C. Certin	cate No.	
Zip	48629	Co	untry United	States			H		Maintenance Organ	nizatio	n		385847988	
	furnish	een made in ed herein is	accordant	e with	the requirements o the best of my	s of I knov	Part 4 Medg	l3 of the U.S e. 	n 5 above and de 5. Federal Aviatio	scrib n Re	ed on t gulation	he reverse is and tha	e or attachments hereto t the information	
per App	ended rar 14 CFR I b. B	nge fuel Part 43		Signa	ature/Date of Aut	horiz	zed In		2-15-19	5				
_		<del></del>							to Service					
A	amınıstrat	or of the Fe	deral Aviat	perso on Adı	ons specified be ministration and i	low;		unit identif	ied in item 5 v x Approved		inspect Rejecte		manner prescribed by the	
ВУ		AA Fit. Stand spector	dards	Man	ufacturer		Mai	ntenance O	rganization			ns Approve tment of Tr	d by Canadian ansport	
	<u> </u>	A Designee	•			X		pection Auth	orization	Othe	er (Spe	cify)		
Cert Desi	ificate or ignation N	Certificate or Designation No. 385847988 Signature/Date of Authorized Individual 2-15-15									5		•	

8. Description of Work Accomplished (If more space is required, attach additional sheets.	Identify with aircraft nationality and registr	ation mark and date work co	ompleted.)						
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दिवसविश्विताला । विकासविश्विताला	N47815		2-15-2015						
Removed original pilot and co-pilot sun visors. Installed FAA approved Rosen sun visors P/N: RPF-300-2 issued under Supplemental Type Certificate Number SA00072SE. Installation was performed in accordance with FAA approved Rosen sun visors Drawing List Number RPF-00DL, revision C, dated March 3, 2005 or later FAA approved revision and AC 43.13 1B and 2A. There are no airworthiness limitations with this installation. There is no change in weight and balance with this installation.  END———————————————————————————————————									
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	К								
	Additional Sheets Are Attached								

(2)
U.S. Department
of Transportation
Federal Aviation
Administration

Form Approved OMB No.2120-0020	Electronic 1	Tracking	Number
2/28/2011			

For FAA Use Only

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and disposit	IONS: Print of tion of this for §46301(a)).	or type all entri rm. This repor	es. See Title CFR §43.9, t is required by law (49 U	Part .S.C.	t 43 . §4	3 Appendix 14701). Fa	B, and AC 43.9-1 ( lure to report can r	or subseque esult in a civ	ent revi	ision thereof) for instructions alty for each such violation
•	17915	Nationality and Registration Mark								
1. Aircraf	t 4/813	-				·	34-7870004			
	Make PIPER						Model PA34-200T			Series
<u> </u>		•	istration certificate)				Address (As show	vn on registrat	ion cert	tificate)
2. Owne	r FINO F	PLANE CO	•	•			Address 34730 City FARMI			State MI
						*				
			3. F	or F	·A/	Use Only	1			
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	Туре		£ 11	nit la	da	ntification				
	T				ue	nuncation		· · · · · · · · · · · · · · · · · · ·		
Repair	Alteration	Unit	Mak	e 			Model			Serial No.
		AIRFRAME					(As described in item 1 abo			
	X	POWERPLAN	IT. CONTINE	NTA	TAL TS		TSIO 36	0-EB		1009404
		PROPELLER		•			,	•		
		APPLIANCE	Type  Manufacturer							
			6. C	onfo	orn	nity Stater	nent			
	y's Name and				E	B. Kind of	Agency			
	VANTGARDE			_ <u>  X</u>	1	J.S. Certifica	ed Mechanic			Manufacturer
_	250 N SERVIC	E DR		·	F	oreign Certif	cated Mechanic		C. (	Certificate No.
_	/ATERFORD		State MI	. L		Certificated R	epair Station		3699	9192
Zip <u>48</u>	8327	Country			(	Certificated M	aintenance Organizati	on		
hereto inform	have been i ation furnish	made in accor ed herein is ti	eration made to the unit rdance with the requiren rue and correct to the be	nents	s o f m	f Part 43 o ly knowled	f the U.S. Federal	escribed on Aviation Re	the re egulati	verse or attachments ions and that the
xtended ran		Signati	re/Date of Authorized In	ndivi	<b>id</b> u	al //-/:3	-14 RICH	IARD LAVO	IF 1	1-7-2014
			7. Appro	val	for	Return T		" " TO LAVO	<u>, - 1</u>	1 / 2017
Purs	uant to the a	uthority given	persons specified below al Aviation Administration	w, th	ne ر	unit identifi	ed in item 5 was in			nanner prescribed by
	FAA Flt. Star	ndards	Manufacturer		T		ce Organization		sons Ap	ppoved by Canadian
BY	FAA Desig	nee	Repair Station	X	╁		Authorization		paπmen Specif	nt of Transport
Certificate or	r Designation N		Signature/Date of Auth	_	1	•		<u> </u>		
1519936			John In for	1	2	- <u> </u>	JOHN F JOHNS	11-7-2014	4	

•	47815	11-7-2014	·
	Nationality and Registration Mark	LDate	
REMOVED SIX CONTINENTAL FUEL FURBOGAMIJECTORS KIT # GT360-1 97-003 [REV NC] DATED 5 DEC 1997, BALANCE************************************	NOZZLES P/N GT360-12D AND INSTALLED GE I2D S/N 24131 STC #SEO9401SC PMA # PQ821 NO CHANGE IN WEIGHT OR	NERAL AVIATION MODIFICA SW PER INSTALLATION PR	ATIONS INC OCEDURE # IP-
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# U.S. Department of Transportation Federal Aviation Administration

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

	Electronic	Tracking	Numbe
OMB No.2120-0020			
2/28/2011	l		

For FAA Use Only

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and disposit	tion of this for §46301(a)).	m. This repor	rt is required by law (49 U.							sion thereof) for instructions alty for each such violation
	National 47815	ity and Registra	tion Mark				Serial No. 34-7870004	•		
1. Aircraf	τ		·							
	Make PIPER						Model Series PA34-200T			
<del></del>							<del></del>			16-1-1
2 0	FINO F	AS SNOWN ON reg PLANE CO	gistration certificate)				Address (As show Address 34730	•	ion certi	ificate)
2. Owne	er						City FARMIN		ntry	State MI
			3. F	or F	AA	Use Only				
								,		
4.	Туре		5. Uı	nit lo	den	ntification				
Repair	Alteration	Unit	Make	е			Model			Serial No.
		AIRFRAME				-	(As described in item 1 above)			
	X	POWERPLAI	NT CONTINE	NTA	۸L	. LTSIO-360-EB		0-EB		1009579
		PROPELLER	t				,			
		APPLIANCE	Type Manufacturer							
			6. C	onfo	orm	nity Staten	nent			
	y's Name and				В	3. Kind of	Agency			
Name A	VANTGARDE A	AVIATION		_ X	U	J.S. Certificat	ed Mechanic			Manufacturer
_	250 N SERVICE	E DR			F	oreign Certifi	cated Mechanic		C. (	Certificate No.
· —	VATERFORD	Country	State MI	.  _	C	Certificated Re	Repair Station			0287
<u> </u>	8327	Country					aintenance Organizati			
hereto inform	have been ration furnish	made in acco ed herein is t	teration made to the unite ordance with the requirement true and correct to the be	nents est of	s of f my	f Part 43 o	the U.S. Federal	scribed on Aviation Re	the re egulati	verse or attachments ions and that the
Extended ran		Signat	ture/Date of Authorized Ir	ndivi	idua					. /. /
			Jan La	val 4	for	Return To		H STEWAR	RT	11/13/2019
Purs	uant to the a	uthority give	n persons specified below	w, the	ne u	ınit identifie	ed in item 5 was in			nanner prescribed by
	FAA Fit. Star		al Aviation Administration  Manufacturer	and	T		e Organization		sons A	ppoved by Canadian
BY	FAA Desig	nee	Repair Station	X	╁		Authorization		Specif	nt of Transport
Certificate o	or Designation N		Signature/Date of Auth							
1519936			John D. S.	_		_	JOHN F JOHNS	11-7-201	4	

8. Description of Work Accomplished (If more space is required, attach addition	nal sheets Identify with aircraft nation	onality and registration m	ark and date work completed )
(1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1			
	47815	·	11-7-2014
	Nationality and Registration Mark		Date
REMOVED SIX CONTINENTAL FUEL NO. TURBOGAMIJECTORS KIT # GT360-12D 97-003 [REV NC] DATED 5 DEC 1997.NO BALANCE************************************	S/N 24164 STC #SE09401SC PMA:	LLED GENERAL AVIATI #PQ821SW PER INSTAL	ON MODIFICATIONS INC LATION PROCEDURE # IP-
DALANCE	***********END************	**********	*********
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	Additional Sheets Are Attac	hed	

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U.S. Department
of Transportation
Federal Aviation
Administration

	Electronic Tracking	Numbe
OMB No.2120-0020		
7/28/2011	1	

For FAA Use Only

INSTRUCTIONS: Print or type all entries. See Title CFR §43.9, Part 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. §44701). Failure to report can result in a civil penalty for each such violation (49 U.S.C. §46301(a)). Nationality and Registration Mark Serial No. 47815 34-7870004 1. Aircraft Make Model Series PIPER PA34-200T Name (As shown on registration certificate) Address (As shown on registration certificate) Address 34730 OAKLAND FINO PLANE CO 2. Owner City FARMINGTON State MI Zip 48335 Country 3. For FAA Use Only 4. Type 5. Unit Identification Alteration Repair Unit Make Model Serial No. **AIRFRAME** X (As described in item 1 above) **POWERPLANT PROPELLER** Type **APPLIANCE** Manufacturer 6. Conformity Statement A. Agency's Name and Address B. Kind of Agency AVANTGARDE AVIATION JOHN F JOHNS Name U.S. Certificated Mechanic Manufacturer Address 6250 N SERVICE DR C. Certificate No. Foreign Certificated Mechanic City WATERFIRD State MI Certificated Repair Station 1519936 Zip 48327 Country Certificated Maintenance Organization 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 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. Extended range fuel per Signature/Date of Authorized Individual 14 CFR Part 43 App. B mon dofins JOHN F JOHNS 8-28-2014 7. Approval 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 REJECTED FAA Flt. Standards Persons Appoved by Canadian. Manufacturer Maintenance Organization Inspector Department of Transport BY Other (Specify) FAA Designee Repair Station Inspection Authorization Certificate or Designation No. Signature/Date of Authorized Individual 1519936 JOHN F JOHNS 8-28-2014

	47815	8-28-2014
	Nationality and Registration Mark	Date
MOVED INSIGHT EGT/CHT SYST INSTALLATION MANUAL DOCL	EM AND INSTALLED INSIGHT GEM P/N 210C-001 IMENT #070906,WEIGHT CHANGE NEGLEGABLE	MODEL G4 TURBO IAW STC SA09-30N
*****END*******		
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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 \$1,000.00 for each such violation (Section 901 Federal Aviation Act of 1958).

for each such	violation (Section 90	1 Federal Aviation A	ct of 19	958).							
1. Aircraft	Make PIPER					Model PA	34-200	Т	1 - 1 · 2 · 3 · 4 · 1 · 4 · 4 · 1 · 1 · 1 · 1 · 1 · 1		
i. Allordic	Serial No. 78-70004	den en e		Nationality and Registration 47815				Mark			
2. Owner	Name (As shown FINO PLACE (	n on registration cert CO	tificate)								
		3. Fo	r FAA l	Jse (	Only		· · · · · · · · · · · · · · · · · · ·				
		4. Un	it Ident	ifica	tion					5. Type	<del></del>
Unit	Ma	ake			Model			Serial No		Repair	Alteration
AIRFRAME		As des	scribe	ed in Item 1 abo	ve) ~ ~ ~ ~	~ ~ ~ <sub>,</sub> ~ ~ .	~ ~			X	
POWERPLAN	I										
PROPELLER								٠			
APPLIANCE	Type Manufacturer										
<del> </del>											
A. Agency's N	lame and Address	:			Conformity Stat Kind of Agency				C. Certifi	cate No.	· - · · · · · · · · · · · · · · · · · ·
	Aviation Inc			X		J.S. Certificated Mechanic					
6250 N SE	RVICE DR	NIATIONIAL A		Foreign Certificated Mechanic					3599823		
	COUNTY INTER RD, MI 48327	RNATIONAL A			Certificated Re	epair Station	1				
	t the repair and/or al	teration made to the	unit/e)	ident	Manufacturer	hove and de	oscribad o	on the rev	orco or otte	achmonto ha	roto
have been	made in accordance terein is true and cort	with the requiremen	nts of Pa	art 43	of the U.S. Fee	deral Aviatio	on Requia	tions and	that the in	formation	reto
Date				Sigr	nature of Author	ized Individ	ual				
02/	21/2012			BR	AIN SCOTT	Br	lan	sc	aid		
					oval For Returi	1 To Servic	e				
	the authority given p or of the Federal Avia			unit	identified in iten  X APPROVE		pected in REJECTE		er prescrib	ed by the	
FAA Fit Standards Manufacturer X			х	Insp	pection Authoriz	ation	Other	(Specify	)		
FAA Designee Repair Station					Person Approved by Transport Canada Airworthiness Group						
	val or Rejection 21/2012	Certificate or Designation No. 1519936		Sig	nature of Author	ized Individ	lual A	Jet.	m		

8. Description of Work Accomplished.  (If more space is required, attach additional spects, Identify with aircraft nationality and registration mark and data work completed.)							
(If more space is required, attach additional sheets. Identify with aircraft nationality and registration mark and date work completed.) 2/21/2012 N47815							
INSTALLED RAPCO VACUUM PUMP COOLING KIT RA40A IAW STC 1015GL INSTALLATION INSTRUCTIONS DATED 3/91 AND DRAWING 1 AND DRAWING {M}. WEIGHT CHANGE IS NEG							
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Additional Sheets are Attached							

U.S. Department
of Transportation
<b>Federal Aviation</b>
Administration

orm Approved DMB No. 2120-0020	Electronic Tracking	Number

For FAA Use Only

Federal Avi Administra	411011	Airira	me, P	owerpiani	, Pro	pener,	, or Appliance	e)				
instruction		ition of th	nis form.							ent revision thereof) for ult in a civil penalty for each		
Nationality and Registration Mark USA N47815						Serial No. 34-787000	04	· · · · ·				
r. AllClai	Make PIPER						Model PA-34-200	Model Series PA-34-200T				
2. Owner	FINO 1		-	on certificate)			34730 OAK	Address (As shown on registration certificate) 34730 OAKLAND ST FARMINGTON MICHIGAN 48335-3337 USA				
						3. For I	AA Use Only					
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	Гуре			<u> </u>		5. Unit le	dentification					
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<u> </u>	<u> </u>	PROFE		Туре								
	APPLIANCE Manufacturer				,							
				l		6. Confo	ormity Statement					
A. Agenc	y's Name and	Addres	3			B. Kind	l of Agency					
	Avionics,						S. Certified Mechan	······································				
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48074	•						ertified Maintenance			I, II		
h¦ave	been made ir	accord	ance with		ts of Pa	art 43 of th	in item 5 above and le U. S. Federal Avia			se or attachments hereto nat the information		
Extended r per 14 CFF App. B	~ _	]	Signa	ature/Date of Au	thorized	Individua	an Kil	<b>~</b>		WILLIAM C MCKELVEY 19-May-2011		
							Return to Service					
				ns specified be Administration			entified in item 5 v  C Approved	was inspected Rejected		manner prescribed by the		
	FAA Flt. Standa Inspector	ards	Man	ufacturer		Maintenanc	e Organization	Departr	nent of Tra	d by Canadian ansport		
BY	FAA Designee	:	<b>K</b> Repa	air Station		Inspection A	Authorization	Other (Specifi	() 			
Certificate Designation	on No.		Signa	ature/Date of Au			" - Mtel	\a\lambda\chi^-		WILLIAM C MCKELVEY		
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FAA Form 337 (10-06)

8. Description (If more space	of Work Accomplist e is required, attach a	ned dditional sheets. Identify with a	aircraft nationali	ty and registration	mark and date work co	ompleted.)
			t	USA	N47815	May-19-2011
				Nationality an	d Registration Mark	Date
PIPER	PA-34-200T	S/N 34-7870004	•			
A SUMMARY	OF THE MODIFICAT	TIONS DONE TO THE AIRCRA	AFT IS AS FOLI	_OWS:		
1. GARMI 2. GARMI 3. GARMI						
2. GARMII 3. GARMII 4. GARMII 5. GARMII	N GTN750 GPS/NAV N GTN650 GPS/NAV N GMA35 REMOTE A N GTX32 MODE C TR N GDL69 XM WEATH	RANSPONDER	E-D. #2 SYSTE	M WIRED TO EXI	STING GA35 WAAS	
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#### STANDARD AIRWORTHINESS CERTIFICATE

UNITED STATES OF AMERICA

2 MANUFACTURER AND MODEL 3 AIRCRAFT SERIAL

REGISTRATION MARKS NUMBER N47815 PIPER PA34-200T B4-7870004

5 AUTHORITY AND BASIS FOR ISSUANCE: This airworthiness certificate is issued pursuant to the Federal Aviation Act of 1958 and cert Tis that, as of the date of issuance, the aircraft to which issued has been inspected and found to conform to the type certificate therefor, to bund to

as provided by Annex 8 to the Convention on International Civil Aviation, except as noted herein. 

Exceptions:

RICHARD D. ANDERSON

DESIGNATION NUMBER

AGL-23

NORMAL

4 CATEGORY

condition for safe operation, and has been shown to meet the requirements of the applicable comprehensive and detailed airworthiness c >e

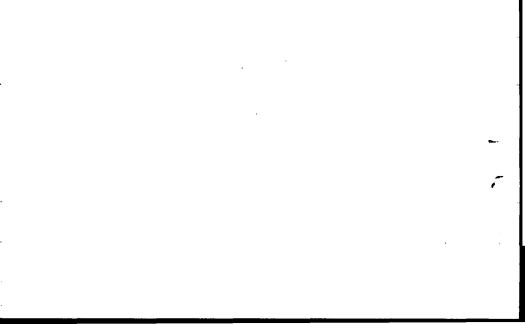
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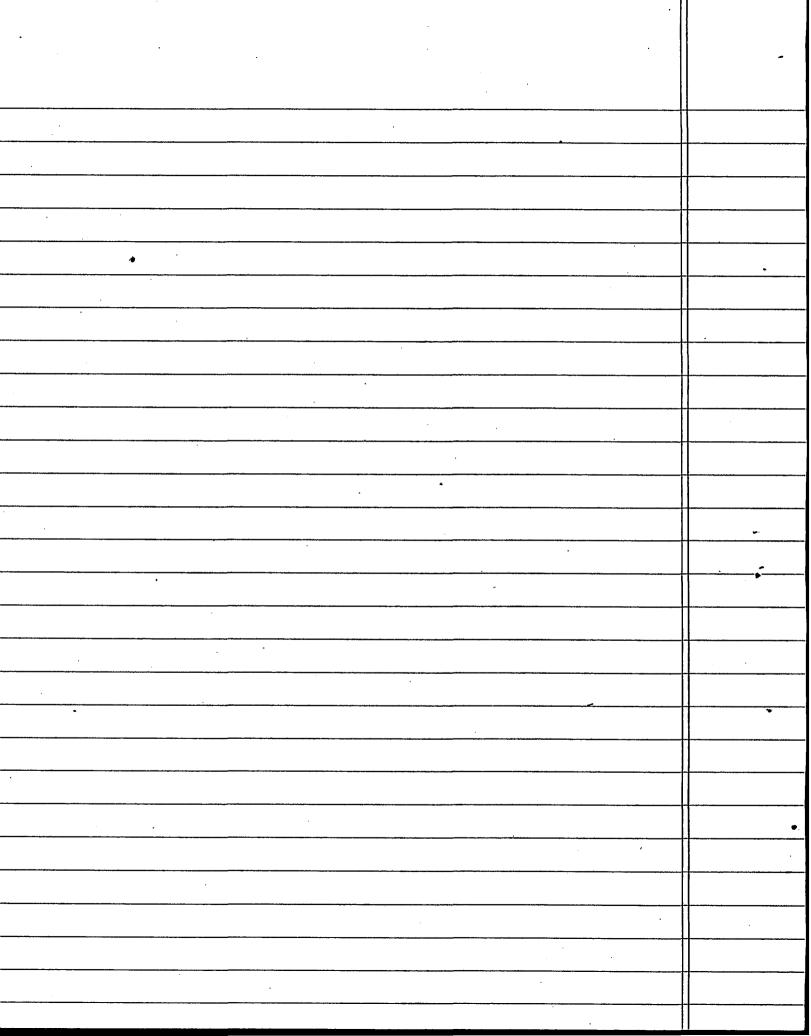
Any iteration, reproduction, or misuse of this certificate may be punishable by a fine not exceeding \$1,000 or imprisonment not exceeding 3 years or both.

1 NATIONALITY AND

- 6 TERMS AND CONDITIONS: Unless sooner surrendered, suspended, revoked, or a termination date is otherwise established by the Administrator, this airworthiness certificate is effective as long as the maintenance, preventative maintenance, and alterations are performed
  - in accordance with Parts 21, 43, and 91 of the Federal Aviation Regulations, as appropriate, and the aircraft is registered in the United States.
- DATE OF ISSUANCE
- R 10/17/1977



4/8/11 I CERTIFY THAT THE AIRWORTHANDES CENTTFICATE FOR N 97815 HAS BEEN LOST



U.S. Department
of Transportation
Federal Aviation
Administration

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

Form Approved OMB No. 2120-0020 11/30/2007	Electronic Tracking Number
11/30/2007	

For FAA Use Only

Federal Aviation Administration		~IIII	allie	3, F	owerplant, Prop	/CIII	ei, oi	Appliance	7			
	and dispos	sition of	of this fo	form.	s. See Tilte 14 CFR §43. This report is required by							ent revision thereof) for ult in a civil penalty for each
	Nationality <b>USA</b>	and Reg		ion Mar	rk			Serial No. 34-7870004	4			
1. Aircraft	Make PIPER							Model PA-34-200T			Serie	is
2. Owner					on certificate) /IATION LLC			Address (As show) 29900 LORR WARREN, MI 48093-5269	RAINE I	EAVE		•
						3. F	or FAA l	Use Only				
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4. Ty	pe		<del></del>	<del></del>	<u> </u>	j. Un	nit Identif	fication				
Repair	Alteration	u Unit Make			Make				Mode	el		Serial No.
	X	AIRF	RAME	Ē		_		(As described	d.in Ite	em 1 abe	ove)	
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		PROF	PELLE	ER			77 - 5 		2 ()			
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A. Agency's						B. K	Kind of Ag			<del>-                                    </del>	Mon	£
140 Nort			-	1		<del></del>		ertified Mechanic Certified Mecha				ufacturer ficate No.
Kimball, 48074 US	, MI					х	Certified	d Repair Station			H4NR1	91N
D. I certify have be	that the repe	n accor	rdance	e with	ion made to the unit(s) ide the requirements of Part to the best of my knowled	t 43 o	ied in iten	d Maintenance O m 5 above and de S. Federal Aviati	lescrib	ed on the	e revers	se or attachments hereto nat the information
Extended rang per 14 CFR Pa App. B	_			Signa	ature/Date of Authorized I			-huk	 ىلد		n <del>.</del>	WILLIAM C MCKELVEY 07-March-2008
/ App								n to Service	<u> </u>	<u> </u>		• • • • • • • • • • • • • • • • • • • •
Pursuant to Administrate	the author of the f	ority gi	iven p I Avia	person	ns specified below, the Administration and is	unit		ed in item 5 wa oproved		spected Rejected		manner prescribed by the
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	A Designee		x	Repai	ir Station Ins	specti	ion Authori	ization .	Other	r (Specify)		
Certificate or Designation I H4NR191N				Signat	ture/Date of Authorized In			ch	لعا	luz		WILLIAM C.MCKELVEY

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

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8. Description of (If more space is	Work Accomplishe required, attach add	ed ditional sheets.  le	dentify with aircraf	t nationality and	registration mai	k and date work co	ompleted.)
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				N	ationality and R	egistration Mark	Date
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	THE AIRCRAFT EQ OAD ANALYSIS RE						
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C2. INSTALLED	TRANS-CAL SSD1	20-30A SOLID S	TATE ALTITUDE I	ENCODER BEH	IND THE PILOT	PANEL.	****
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ADDITIONAL SHEETS ARE ATTACHED

U.S Department o	١
Transportation	

# **MAJOR REPAIR AND ALTERATION**

Form Approved
OMB No. 2120-0020 11/30/2007
11/30/2007

Electronic Tracking Number

U.S Depa	ensportation (All Hallie, Fowel plant, Flopelier, Or Al deral Aviation				!!	11/30/20	)07								
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and o	disposition	of this f	orm. This	repo	rt is required b	y law (49	U.S.C	ppendix B, . 1421). Fa	and AC ilure to r	43.9-1 (or subseque eport can result in a	ent revision civil pen	on the	ereof) for ins ot to excee	structions d \$1,000	
A. Agency's Name Eric Jaroc Address 10650 S City Houghton I Zip 48629  D. I certify that have been furnished h		Nationa N478		egistr	ation Mark	***				Serial No. 34-7870004					···
Repa  A. Ager  Address  CityHou  Zip4862  D. Ic ht.  Extende per 14 C  App. B  Pursu  Admir	art.	Make Piper								Model PA34-200T	Series Seneca				
2. Owne	er		<b>Dreams</b>	s Avi	gistration cert iation LLC			Address (As shown on registration of Address 29900 Lorraine Ave. City Warren  Zip 48093 Cou					Suite 35	6 <u>0</u> State <mark>Michi</mark>	gan
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Weight and balance or operating limitation changes shall be entered in the appropriate aircraft record. An alteration must be compatible with all previous alterations to assure continued conformity with the applicable airworthiness requirements.

8. Description of Work Accomplished			•			w.	* • *	•
(If more space is required, attach additional sh	heets. Ident	lify with aircraft r	nationality and	d registratio	n mark an	d date work	completed.)	)
· · · · · · · · · · · · · · · · · · ·		N47815	<u></u>		7 [	2-18-2008	•	7
	. · •	Nationality and	Registration	Mark	سار ی	D	ate	J.,
Installed Bob Fields Aerocessories upgrade pump	• •				مراد م	- No REA.	and detect	44.2
Installed Bob Fields Aerocessories upgrade pump 1998, drawing No.:3920 revision 3, dated 6-1-198 door inflateable seal in accordance with STC No.: is no change in weight and balance with these ins	80 and AC 43 .: SA4324WE	3.13-1B and 2A. E, drawing No.: 3	. This action s 3920 revision	satisfies the D, dated 10	AMOC fo 0-1-1982 a	r AD 98-21-2 and AC 43.13	21. Installed	d rear
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# Beparement of Transportation — Lederal Aviation Administration

# Supplemental Type. Certificate

Number SA1234HE

redificate, issued to

Bob Field Aerocessories

has that the alongs in the hypodisign for the following product with the limitations and conditions for an equiphed have much the airworthings or guirmonth of 19and 23 of the Federal Aviation delines. See Type Certificate Data Sheet A750 for complete certification basis.

- and Bordens - Type Prodifector Number

A750

Male.

Piper

Midst:

PA-34-200, PA-34-200T, PA-34-220T

th FM sealed Bob Fields Aerocessories Drawing No. 3920, "D" revision, dated tober 1, 1982, or later FM approved revision.

The approval of this drange in type design applies to the basic alreaft of the specified models that are otherwise unmedified. This approval should not be extended to other alreaft of these models on which other arealously approved modifications are incorporated, unless it is determined by the previously approved modifications will introduce no adverse effect upon the attractions of that aircraft.

The contificate and the supporting data which is the last for approval shall remain in effect will sur

I would suspended winder or a bornination date a otherwise whattished by the Stelminstanties of the

11-4 of applocation

August 14, 1980

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September 18, 1980

1983 Hay 16, 1983

By Levelin of the I bluminstante .

Tysis C. Davis

(12 1 Supervisor, Aircraft Modification Section

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

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US Department of Transportation

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

Form Approved
OMB No. 2120-0020

FOR PAA, DS	e Only
Office Identification	GLOS

Pederal Aviation	
.Administration	

and d	isposition	of this form.	This	report is requir	red by lav	N (49	pendix B, and A U.S.C. 1421).	AC 4: Faile	3.9-1 (or sub: ure to report o	sequent re an result	evisio in a o	n thereof) for civil penalty no	instructions It to exceed
\$1,00	D for each	such violation	n (Se	ction 901 Fede	ral Aviati	on A	ct of 1958).					· ·	
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1. Aircı	ra ft		PIPE	₹				Not	n Ma	<del>d</del> e			
1. All G	idit	Serial No.	4-78	70004			Nationality and Registration Mark N47815						
		Name (As shown on registration certific						Ado	iress (As sho	wn on reg	istrat	ion certificate)	
2. Own	er	AV CHICAGO, INC								N RIDG		/E HTS, IL 6000	4
airwort descrit	thiness req	uirements and to subject to cor	is ap	with the applicab proved for the a ty inspection by Inspector DPA	le above a person	1	or FAA Use Only	у					
				4. Un	it Identif	icati	on					5. Type	
υ	lnīt		Mal	ке			Model		Seri	al No.		Repair	Alteration
AIRFRA	ME	(As desc				ribed	in Item 1 above	·)					х
POWER	RPLANT												
PROPE	LLER									_		-	
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have	been ma	de in accorda	nce v	vith the require	ments of	Part	entified in item 4 43 of the U.S. F	abov eder	ve and descril al Aviation Re	ed on the	e reve	erse or attachm that the informa	ents hereto ation
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	FAA FIL Inspector	Standards		Manufacturer			Inspection Auti	horiz	ation	Other (S	oecify	<i>(</i> )	
3Y	FAA Des	ignee	х	Repair Station	1		Person Approv Canada Airwor						
Date of A	Approval o	r Rejection 2002	1	tificate or signation No. UD2D209	<u>L</u>	_	nature of Authori	ized	Individual	Skor	rl		

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.

В.	Des	cription	of	Work	Acc	omp	lishe	be

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

Piper PA34-200T, S/N 34-7870004 FAA Form 337 Page 1 of 1

- 1. Removed the following equipment and components:
  - a. 3M WX-1000 Stormscope Antenna p/n 78-8051-9200-8 s/n UWA12902556.
  - b. 3M WX-1000 Stormscope Processor p/n 78-8060-5723-4 s/n UWP12902556.
  - c. 3M WX-1000 Stormscope Display p/n 78-8051-9170-3 s/n UWD12902556.

Installed Goodrich WX500 Stormscope system (TSO C110a) consisting of:

- a. WX-500 Stormscope Processor p/n 805-11500-001 s/n 80880.
- b. NY-163 Stormscope Antenna p/n 805-10930-001 s/n 80799.
- 2. The Goodrich WX-500 Stormscope processor was installed at FS 209.0 in accordance with (i/a/w) Goodrich WX-500 Installation Manual P/N 009-11500-001 Rev. D, dated November 9, 2001 and with reference to AC43.13-1B chapters 10, 11, 12 and AC43.13-2A chapters 2 and 11. The WX-500 Stormscope is powered from the 14VDC avionics bus through a 5 amp pullable circuit breaker labeled STORMSCOPE. The WX-500 Stormscope is interfaced and controlled by the existing Garmin GNS530 Transceiver. The Goodrich NY-163 Stormscope Antenna was installed on the bottom of the aircraft at FS 173.2 i/a/w Goodrich WX-500 Installation Manual P/N 009-11500-001 Rev. D, dated November 9, 2001 and with reference to AC43.13-2A chapter 3. Relocated existing STEC System 60-2 Autopilot Programmer from the pilot's lower left subpanel to the pilot's instrument panel above the No. 2 CDI. The aircraft weight and balance and equipment list have been updated to include these changes. Electrical load does not exceed 80% of capacity.
- Control / Operation Information: N/A
- 4. Servicing Information: N/A
- Maintenance Instructions: N/A
- 6. Trouble Shooting Information: N/A
- 7. Removal / Replacement Information: N/A
- 8. Diagrams: N/A
- 9. Special Inspection Requirements: None
- 10. Application of Protective Treatments: N/A
- 11. Data: N/A
- 12. List of Special Tools: N/A
- 13. Commuter Category Aircraft Additional Information: N/A
- 14. Recommended Overhaul Periods: No additional overhaul time limitations.
- Airworthiness Limitations Section: No additional airworthiness limitations.
- 16. Revision: A letter will be submitted to the local FSDO with a copy of the revised FAA Form 337 and revised ICA.

File: PA34-34-7870004-WX500-337.doc

US Department of Transportation Federal Aviation Administration

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

Form Approved OMB No. 2120-0020

For FAA Use Only
Office (Identification

GL03

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	for each such violation (Section 901 Federal Aviation Act of 1958).														
	Make Piper Aircraft							,	Model PA-	34-	200T		The state of the s		
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2. Ow	mer			on registration cer ago, Inc.	tifica	ate)	3407B N. Ridge Ave					ertificate)			
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Weight and balance or operating limitation changes shall be entered in the appropriate aircraft record. An alteration must be compatible with all previous alterations to assure continued conformity with the applicable airworthiness requirements.

8.	Description (If more spa	of Work Accomplished ace is required, attach additional sheets. Identify with aircraft nationality and registration mark and date work completed.)
		Piper PA34-200T, s/n 34-7870004
		FAA 337 Page 1 of 4
	1]	Removed:
		Edo-Aire / Mitchell AltiMatic-IIIC autopilot system with electric pitch-trim.
		Installed:
		Two axis S-TEC autopilot System 60-2 (TSO C9c, C52A) consisting of:
		Electric Turn Coordinator p/n 6405-14L; Pitch Computer p/n 0110-51; Roll Computer p/n 0109; Absolute Pressure Transducer p/n 0111; Roll Servo p/n 0105-R9; Pitch Servo p/n 0107-1-P2;
		Programmer / Annunciator p/n 0103-1.
		> The electric pitch-trim has been changed to a Piper TC'd manual pitch-trim system by removing the Edo-Aire pitch trim servo & bracket, wiring, yoke & panel mounted switches, Trim circuit
		breaker and pitch-trim control surface cable. Piper p/n 62701-077 pitch-trim control surface
		cable for manual pitch-trim has been installed.
	01	
	2]	This autopilot installation was performed in accordance with (i/a/w) STC SA5165SW-D and with reference to AC 43.13-1B chapters 10, 11 & 12, and AC 43.13-2A chapters 2 & 11. The manual
		pitch-trim cable has been installed and rigged per the Piper PA34-200T Maintenance Manual. The
		aircraft Weight & Balance / Equipment List has been revised to include this change. Electrical load
		does not exceed 80% of capacity. The S-TEC autopilot is powered from the 14vdc avionics bus through a 5 amp pullable circuit breaker labeled: Autopilot. This installation has been tested and
		certified for return to service i/a/w the STC installation instructions. A Pilot's Operating Handbook
		for System 60 Autopilots, p/n 8684 dated 12-99 has been provided.
		Use of this autopilot requires FAA Approved Supplement To Pilot's Operating Handbook and/or FAA
		Approved Airplane Flight Manual for Piper Models PA-34-200T and PA-34-220T with S-TEC System
		60 Two Axis Automatic Flight Guidance System (14 Volt System) [for] Reg. NO. N47815, Ser. NO. 34-7870004 be attached to the FAA Approved Airplane Flight Manual and be immediately available
		to the flight crew.
		<del>-</del>
	3]	Refer to (attached) S-TEC document p/n 81443, Rev. 1 (or later revision) for Instructions for
	<b>-</b>	riotor to fattached o the accument bin o tato, here i for later revision, for matricellons to

File = PA34-34-7870004-STEC-AP-337.doc

Continued Airworthiness of the S-TEC 60-2 autopilot.

-----END-----

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.)
FORM 86240, REV. B



#### INSTRUCTIONS FOR CONTINUED AIRWORTHINESS

S-TEC System 20/30, 30 ALT, 40/50, 40X/50X, 55/55X, 60-1, 60-2, PSS, 65 Autopilots and Yaw Damper/Trim Systems

#### 1. Introduction

This modification was performed on Piper models PA-34-200, PA-34-200T, and PA-34-220T. The following information, in conjunction with the STC Installation Bulletin (S-TEC P/N) 135, Master Drawing List 9271 and 9272, dated 3-13-01 and AFM Supplement(s) 8982-2, Rev. 2, dated 7-27-87, and 891106, dated 9-12-94 provide adequate guidance to determine that these systems are airworthy.

#### 2. Description

This STC involves the installation of an S-TEC flight control system (System 20/30, 30ALT, 40/50, 40X/50X, 55/55X, 60-1, 60-2, PSS, 65 Autopilot and/or Yaw Damper/Trim Systems). The installation may include one or all of the following installations:

Roll servo

Pitch servo

Trim servo (elevator)

Yaw servo

Panel or remotely mounted pitch/roll/yaw computers

Panel mounted controllers, indicators, switches, and breakers

Barometric pressure transducer/static source

Flap motion sensor

Optional systems (flight director/steering horizon, autotrim system, annunciator, altitude selector/alerter, GPSS converter (has separate ICAW), directional gyro, HSI, and/or other optional systems)

Servo installations utilize aluminum bracketry to secure the servos to the airframe. Attachment to the aircraft primary flight controls and trim systems is accomplished through cable, push-rod, and/or chain assemblies. Installation data for all components listed in the STC are included in the Installation Bulletin 135. Approved interconnections to navigation systems and heading systems are detailed in the Bulletin as well.

#### 3. Controls, Operation Information

Operation of the autopilot and other systems is described in the FAA Approved Flight Manual Supplement(s) (S-TEC P/N) 8982-2, Rev. 2, dated 7-27-87, and 891106, dated 9-12-94. Specialized controls, annunciation, operation and interpretation are covered in this required document and in S-TEC Pilot's Operating Handbooks that supplement the approved AFMS.

#### 4. Servicing Information

All servicing of items included in this STC must be accomplished by approved S-TEC dealers using S-TEC Dealer Maintenance Manuals and S-TEC Test Equipment. Locations and access to the components installed under this STC are described and depicted in the installation drawings and Installation Manual. Removal and replacement of components should be determined by functional checks indicated in the AFM Supplement and the Ground Checks and Flight Adjustment section of the Installation Bulletin for Model ST-032.

Part No. 81443, Rev. 1

Piper PA34-200T, s/n 34-7870004
FAA Form 337 Page 2 of 4
S-TEC 60-2 Instructions for Continued Airworthiness Page 1 of 3



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.)

FORM 86240, REV. B



#### INSTRUCTIONS FOR CONTINUED AIRWORTHINESS

S-TEC System 20/30, 30 ALT, 40/50, 40X/50X, 55/55X, 60-1, 60-2, PSS, 65 Autopilots and Yaw Damper/Trim Systems

#### 5. Maintenance Instructions

Condition and/or airworthiness inspections required under FAR Part 43, or other FAA approved programs, should include several items regarding the S-TEC autopilot System installed in the aircraft.

- Perform functional checks indicated in the AFM Supplement and the Ground Checks and Flight Adjustment section of the Installation Bulletin for Model ST-032.
- Component installations should be checked against Installation Bulletin for Model ST-032 to confirm integrity and condition.
- 3. In servo installations utilizing bridle cables, tension should be verified against values indicated on the Roll/Pitch/Trim/Yaw Servo Installation drawing(s) (found in the Bulletin Master Drawing List) 9271 and 9272, dated 3-13-01. Check for frayed or misaligned bridle cables and excess wear or looseness of any associated idler pulleys.
- 4. Servo installations utilizing push-rod or chain actuation should be inspected for condition.

#### 6. Trouble Shooting Information

Trouble-shooting this equipment should only be accomplished by authorized S-TEC Dealers with required test equipment and service data. System function should be determined through functional checks indicated in the AFM Supplement(s) 8982-2, Rev. 2, dated 7-27-87, and 891106, dated 9-12-94 and the Ground Checks and Flight Adjustment section of the Installation Bulletin for Model ST-032.

#### 7. Removal and Replacement Information

All components can be removed with common tools and practices. Installation of components required for this alteration must be in accordance with the approved data contained in the Installation Bulletin for Model ST-032.

#### 8. Diagrams

See Installation Bulletin for Model ST-032.

#### 9. Special Inspection

N/A

#### 10. Application of Protective Treatments

Servos, transducers, flap position sensors should be removed prior to application of corrosion (or other) treatments. Panel mounted components should not be exposed to these treatments.

#### 11. Structural Fasteners

See parts list in the Installation Bulletin for Model ST-032 for TSO, PMA, and standard hardware information.

#### 12. Special Tools

N/A

## 13. The following additional information is being supplied (required for Commuter category airplanes):

Electrical loads are described in the Component Weights and Current Drain section of the Installation Bulletin for Model ST-032.

Part No. 81443, Rev. 1

Piper PA34-200T, s/n 34-7870004
FAA Form 337 Page 3 of 4
S-TEC 60-2 Instructions for Continued Airworthiness Page 2 of 3

Additional Sheets Are Attached



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.)

FORM 86240, REV. B



#### INSTRUCTIONS FOR CONTINUED AIRWORTHINESS

S-TEC System 20/30, 30 ALT, 40/50, 40X/50X, 55/55X, 60-1, 60-2, PSS, 65 Autopilots and Yaw Damper/Trim Systems

14. Overhaul Time Limitations N/A

15. Airworthiness Limitations
None.

16. Revisions

The S-TEC Service Letter/Bulletin program will be utilized to inform aircraft operators of significant changes to this ICA. Contact S-TEC Corporation at 1-800-USA-STEC.

Part No. 81443, Rev. 1

Piper PA34-200T, s/n 34-7870004
FAA Form 337 Page 4 of 4
S-TEC 60-2 Instructions for Continued Airworthiness Page 3 of 3

☐ Additional Sheets Are Attached

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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

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

fo	r each	suc	n violation (So	ectio	n 901 Federal Avia	tion Ad	ct.of	1958).					,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	, , , , , , , , , , , , , , , , , , ,	
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Weight and balance or operating limitation changes shall be entered in the appropriate aircraft record. An alteration must be compatible with all previous alterations to assure continued conformity with the applicable airworthiness requirements.

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8. Desc	ription of Work Accomplished ore space is required, attach additional sheets. Identify with aircraft nationality and registration m	ark and date work completed.)
•	Piper PA34-200T, s/n 34-7870004	
1]	Removed the following equipment / systems: Collins transponder model To s/n 5495 and L-band antenna p/n AV-22.  Installed the following equipment / systems: Garmin Transponder system of Class 1A) p/n 011-00490-00 with KA-60 blade type L-band antenna p/n 0	nodel GTX-327 (TSO C74c
2]	The GTX-327 installation was done i/a/w manufacturer's installation manu AC43.13-1B chapters 10, 11 & 12 and AC43.13-2A chapters 2 and 3. The with the existing Narco AR-850 blind encoder s/n 29076. The GTX-327 is DC bus through a 5 amp pullable circuit breaker labeled TRANSPONDER. and encoder systems have been tested and certified as required by FAR 91 appendix E(a)(b)(c) and FAR 91.413 i/a/w FAR 43 appendix F. The installed checked per manufacturer's instructions for return to service and found to interference with or from other installed systems. The weight & balance / to include this installation. Electrical load does not exceed 80% of capacit Mode A/C Transponder Pilot's Guide p/n 190-00187-00, Rev. A has been	ne GTX-327 is interfaced a powered from the avionic feet transponder, altimeter, .411 i/a/w FAR 43 d system was ground operate properly with no equipment list was revised y. The Garmin GTX-327
3]	Control / Operation Information for this item: None	
4] -	Servicing Information: N/A	
5]	Maintenance Instructions: Other than for regulatory periodic functional che GTX-327 transponder is "on condition" only.	cks, maintenance of the
6]	Trouble Shooting Information: N/A	
7]	Removal / Replacement Information: N/A	
8]	Diagrams: N/A	
9]	Special Inspection Requirements: None	
10]	Application of Protective Treatments: N/A	1
11]	Data: N/A	
12]	List of Special Tools: N/A	
13]	Commuter Category Aircraft Additional Information: N/A	
14]	Recommended Overhaul Periods: No additional overhaul time limitations.	· .
15]	Airworthiness Limitation Section: No additional airworthiness limitations.	
16]	Revision: A letter will be submitted to the local FSDO with a copy of the revised ICA.	evised FAA Form 337 and
FILE:	PA34-34-7870004-GTX327-337.doc	Page 1 of 1

☐ Additional Sheets Are Attached

US Department of Transportation
Federal Aviation Administration

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

Form Approved OMB No. 2120-0020

For FAA Use Only
Office Identification

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1. A	ircraft	Serial No.		004						lity and Registration 7815	Mark		
2. 0	wner	Audi	o V	on registration cei isual Rentals E ı LTD		te)	Address (As shown on registration certificate) 3353 N Ridge Ave Arlington Heights, IL 60004						
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Weight and balance or operating limitation changes shall be entered in the appropriate aircraft record. An alteration must be compatible with all previous alterations to assure continued conformity with the applicable airworthiness requirements.

#### 8. Description of Work Accomplished

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

### Piper PA-34-200T, s/n 34-7870004 FAA 337 Page 1 of 2

Removed: Collins #2 VHF-251 VHF Com, #2 VIR-351 VHF Nav, #2 IND-351 CDI, GLS-350 Glideslope Receiver, IND-650 ADF Indicator, RCR-650 ADF Receiver, TDR-950 Transponder, and AV-22 L-band antenna.

Installed: Garmin GPS/Nav/Com/Color Moving Map system model GNS-530 as the #1 system (TSO C129a, C40c, C38d, C37d, C36e, C34e) consisting of: Garmin GNS-530 GPS/Nav/Com p/n 011-00550-10, Garmin GA-56 GPS Antenna p/n 011-00134-00, #2 Garmin GI-106A Nav CDI p/n 013-00049-11; #2 Mid-Continent GPS Switching / Annunciator p/n MD41-1464A (TSO C129), KA-118 Demodulator p/n 071-1095-00 (TSO C9c), KA-60 L-band antenna p/n 071-0159-0001 and autopilot relay p/n AIS80-1. Relocated the existing KA-83 Loran-C antenna from top fuselage station 99.0" to 102.0". Moved the existing GNS-430 system from the #1 position to the #2 position. The initial installation and approval of the GNS-530 was accomplished in a Piper PA32 under STC # SA00864WI. The existing GNS-430 was installed by Avionics Place, Rockford, Illinois on FAA 337 dated: March 28, 2000.

- This installation has been accomplished in accordance with (i/a/w): Garmin International GNS-500 Series Installation 2] Manual p/n 190-00181-02 Rev. C, dated September 2000; GNS-400 Series Installation Manual p/n 190-00140-02 Rev. H, dated September 2000; Garmin GI-102A/106A Installation manual p/n 190-00180-00, Rev. B, dated July 1999; Mid-Continent MD41-( ) Installation manual p/n 9010778 Rev. 0, dated May 2000; Standard Avionics Industry practices; AC20-138 Paragraphs 8c, 8c(2), and Appendix 1(2); AC 43.13-1B Chapters 10, 11, 12; AC43.13-2A Chapters 2 and 3. The new GPS antenna has been installed on top of the aircraft at fuselage station 99.0. Re-interfaced the existing GNS-430 to the newly installed GI-106A CDI and the #1 GNS-530 to the existing King KI-525A HSI. The GNS-530 is located in the left-center avionics panel and requires no external switching or annunciators. The existing GNS-430 has been re-located to the right-center avionics panel and has been interfaced with a newly installed remote mounted GPS annunciator switching unit located on the pilot's instrument panel. Steering information from either system can be provided to the existing Century III Autopilot and is selected by a miniature toggle switch labeled AP - Nav1/Nav2. Altitude data for each GPS is derived from the existing Narco AR-850 blind encoder. The GNS-530 is interfaced directly with the AR-850 using Gillham code and the GNS-430 derives it's AR-850 altitude information via the RS-232 output of the Garmin GTX-327 transponder. Encoder bit check performed as required by FAR 91.411 i/a/w FAR 43 appendix "E(c)". The existing KLN-88 Loran-C installation has been changed so that the Loran-C no longer is interfaced with any external CDI or autopilot. A placard stating: LORAN-C VFR ONLY has been installed on the aircraft instrument panel. The existing KLN-88 and GNS-430 FAA approved flight manual supplements have been removed from the Pilot's Operating Handbook and retained for reference with their original FAA 337 forms. The aircraft weight & balance / equipment list has been revised to reflect this change. Electrical load does not exceed 80% of capacity. The GNS-530 is powered from the avionics DC bus through a 10 amp pullable circuit breaker labeled COM 1 and 5 amp pullable circuit breaker labeled GPS 1. The #2 MD41-1464A is powered from the avionics DC bus through a 2 amp in-line fuse labeled GPS ANN 2. The autopilot switching relay p/n AIS80-1 is powered from the avionics DC bus through a 1 amp in-line fuse labeled AP NAV.
- This installation function checked per procedures found in the Garmin Post Installation Configuration & Checkout Procedures. Ground checks include verification of conformity to airworthiness criteria i/a/w AC 20-138, paragraph 8b. Each Garmin GPS unit has been placarded "GPS NOT APPROVED FOR NAVIGATION". Completion of paragraph [4] below removes "GPS NOT APPROVED FOR NAVIGATION" placard.
- The GNS-530 and GNS-430 installation has been flight-checked i/a/w AC 20-138, Appendix 1(2)(d), on MACH 30, 2001 (date), by South Certificate # PRIR248H, and found to meet the requirements for supplemental VFR enroute, terminal, and non-precision approach flight using GPS as set forth by paragraph 9c2(iv). Results are recorded on Priester Aviation form # GPSCHK-1 and on file with work order # 48811.

This installation requires FAA APPROVED AIRPLANE FLIGHT MANUAL SUPPLEMENT FOR PIPER PA34-200T, SERIAL NUMBER 34-7870004, WITH SINGLE BUAL SARMIN INTERNATIONAL GNS-530 / GNS-430 GPS/NAV/COM SYSTEM, FAA approved (date). This Airplane Flight Manual Supplement must be attached to the FAA Approved Airplane Flight Manual. For system Limitations, Normal, and Emergency operating instructions, refer to the aircraft AFM.

5] See attached document # ICA-GNS430-530 Rev. "A" for Instructions for Continued Airworthiness (ICA) of the dual GNS system.

Additional Sheets Are Attached

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

#### B. Description of Work Accomplished

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

Priester Aviation
Palwaukee Municipal Airport
Wheeling, Illinois, USA

Garmin GNS-430 / GNS-530 CMM/GPS/NAV/COM Piper PA-34-200T, s/n 34-7870004

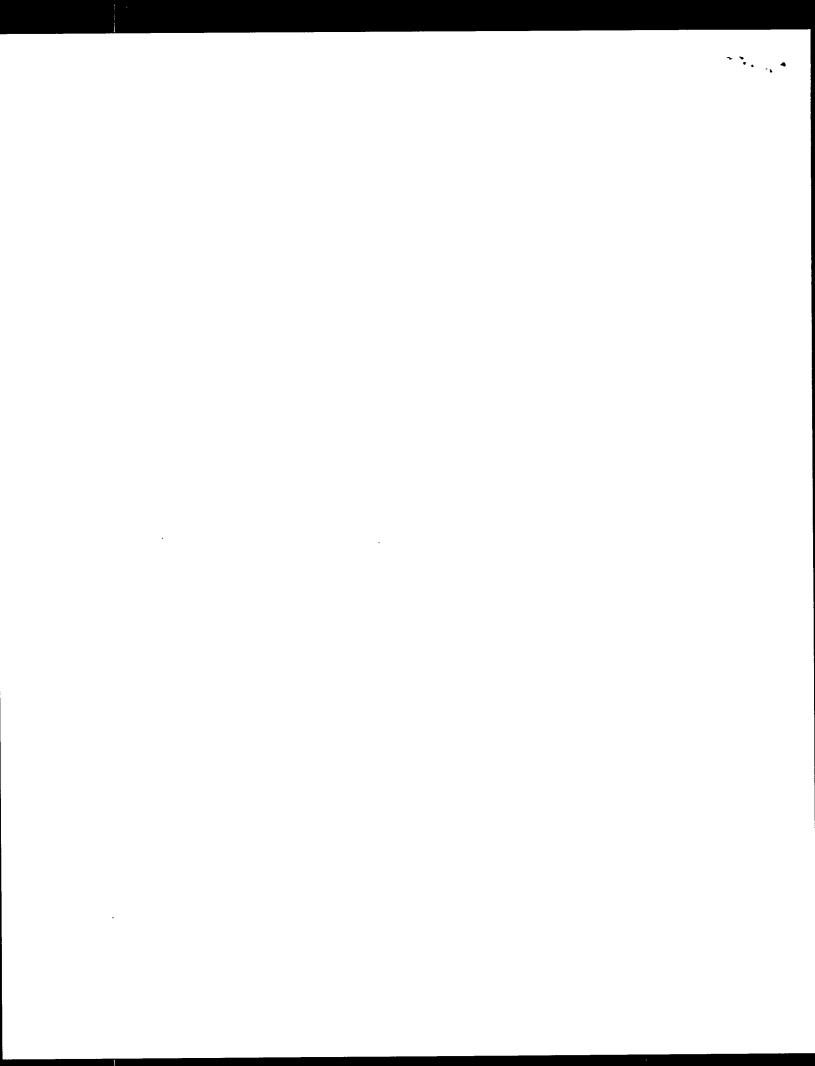
## Instructions for Continued Airworthiness (ICA)

- 1] Introduction: The Garmin GNS-430 / GNS-530 CMM/GPS/NAV/COM system is be comprised of the following components: Single or dual GNS-430 Color Moving Map/GPS/NAV/COM p/n 010-00280-10, Single or dual GNS-530 Color Moving Map/GPS/NAV/COM p/n 011-00550-10, Single or dual GA-56 GPS antenna p/n 010-00134-00, and none, single, or dual GI-106A Nav CDI p/n 013-00049-11.
- Description: The Garmin GNS-430 & GNS-530 Color Moving Map/GPS/NAV/COM is/are IFR certified airborne VHF communications transceiver and Navigation Management System (NMS). The NMS includes GPS sensor, VOR/Localizer, and Glideslope receivers. The GNS-()30 includes two removable data cards, one with a Jeppesen database, and the second being an optional custom data card. GPS signals for each system are received by a Garmin GA-56 low profile GPS antenna.
  Nav steering information is displayed each on the King KI-525A and Garmin GI-106A CDI.
- 3] Control, Operation Information: N/A
- 4] Servicing Information: N/A
- 5] Maintenance Instructions: Maintenance of the GNS-430, GNS-530 GA-56, and GI-106A is "on-condition" only.
- 6] Trouble Shooting Information: N/A
- 7] Removal And Replacement Information: N/A
- 8] Diagrams: N/A
- 9] Special Inspection Requirements: N/A
- 10] Application of Protective Treatments: N/A
- 11] <u>Data:</u> N/A
- 12] List of Special Tools: N/A
- 13] Commuter Category Aircraft: N/A
- 14] Recommended Overhaul Periods: No additional overhaul time limitations.
- 15] <u>Airworthiness Limitation Section:</u> No additional airworthiness limitations.
- 16] Revision: A letter will be submitted to the local FSDO with a copy of the revised FAA Form 337 and revised ICA.

#### NOTES:

1] Initial release of this document begins with revision "A".

Document # ICA-GNS430-530 REV. A File = PA34-34-7870004-DualGarmin-ICA.doc FAA 337 Page 2 of 2



US Department

of Transportation
Federal Aviation
Administration

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

Form Approved		
OMB No. 2120-0020		
For EAA Hos	7	<u>.</u>

For FAA Use Only
Office Identification PA-FSDO

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).

fo	for each such violation (Section 901 Federal Aviation Act of 1958).												
		Make						Model	· · · · · · · · · · · · · · · · · · ·				
1. A	ircraft		PIF	ER					PA34-200T				
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	Authorized in FAR 43.7. A Market MAR 2 8 2000												
	Date		¥.	AA Inspertor, DP	A-FSD	<u></u>							
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Weight and balance or operating limitation changes shall be entered in the appropriate aircraft record. An alteration must be compatible with all previous alterations to assure continued conformity with the applicable airworthiness requirements.

8. Description of Work Accomplished

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

1. Introduction: A. Installed Garmin GNS-430 s/n 96305587 in left side of radio rack below PM-6000M and above VIR-351/VHF-251 in clear view

of pilot. Antenna mounted on top at

station #95.
Installed I.A.W. manufacturers instructions p/n 190-00140-02 Rev. C, dated 11-11-98, AC 43.13-1B Chap 4, 11 & 12, AC 43.13-2A Chap 2 & 3, AC 23.1309-1A, and AC 20-138 Chap 7 2. Description: A. (VFR).

(VFR).

B. Supporting data on STC #SA00705WI.

C. Installed 5 amp C/B labeled GPS.

D. GPS does not interfere with any other avionics or instruments in A/C.

E. GNS-430 is directly connected to encoder, PM-6000M, and Digiflow, also connected to KI-525A through RS-008 relay system.

F. System ground checked good.

G. GPS is limited and placarded "GPS Not Approved For Navigation" pending successful completion of functional check at which time GPS will be placarded "GPS Not Approved For IFR".

H. Flight operation check was performed in accordance with manufacturer specifications and the functional flight evaluation requirements of AC 20-138, PAR 7c(1)(iv).

Flight check satisfactory:
Repair Station Certificate #: FQ5R866M
Date of Flight Check:
ontrol, operation information: N/A

34.567.

Control, operation information: N/A
Servicing information: N/A
Maintenance instructions: N/A
Trouble shooting information: N/A
Removal and replacement information: N/A

Removal and replacement information: N/A
Diagrams: N/A
Special inspection requirements: N/A
Application of protective treatments: N/A
Data: N/A
List of special tools: N/A
Commuter category A/C: N/A
Recommended overhaul periods: N/A
Airworthiness Limitations Section: N/A
Revision: A letter will be submitted to the local FSDO with
a copy of the revised FAA Form 337 and revised ICA.

END

PA-34-200T 31n N47815 3-10-00

# US Department of Transportation

Federal Aviation Administration

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

Form Approved OMB No. 2120-0020

For FAA Use Only

Office Identification

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

tor	for each such violation (Section 901 Federal Aviation Act of 1958).													
		Make						Model		·				
1. Ai	rcraft		PIF	ER					PA34-200T					
		Serial No.						Nationali	ty and Registratio	n Mark				
		<del> </del>		<u>-7870004</u>					N47815					
		Name (As si	hown	on registration cert	tificate	∌)		Address	(As shown on reg	istration c	ertificate)			
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	The data	identified he			· · · · · · · · · · · · · · · · · · ·									
The data identified herein complies with the applicable airworthiness requirements and is approved for the above described aircraft, subject to conformity inspection by a person authorized in FAR 43.7.  MAR 2 8 2000  Date FAA inspector, DPA-F&DO														
4. Unit Identification											5. Type	<b></b>		
	Unit	Make					Model		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 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.) Previously installed Garmin GNS-430 s/n 96305587 located above VIR-351/VHF-251 and below PM-6000M in clear view 1. Introduction: of pilot.
GPS antenna is mounted on top at station #95. В. station #95.
Installed I.A.W. manufacturers instructions p/n 190-00140-02 Rev C, dated 11-11-98, AC 43.13-1B Chap 4, 11, & 12, AC 43.13-2A Chap 2 & 3, AC 23.1309-1A, and AC 20-138 PAR 8(c)(1)(iv) (IFR install).
GPS is directly connected to encoder, PM-6000M, and Digiflow, also connected to KI-525A through RS-008 relay system.
GPS does not interfere with other equipment, (electromagnetic compatibility), and other equipment in A/C does not interfere with GPS unit.
GPS is connected to 5 amp C/B, and labeled GPS. 2. Description: В. D. E. Electrical load analysis was performed. Electrical load analysis was performed. GNS-430 does not produce excessive load on systems per A/C specifications. See supporting STC data #SA00705WI for GNS-430 initial approval.

IFR flight test was performed in accordance with AC 20-138 PAR 8(c)(2)(IV) on 3-10-00 by Ed Gomboz "Pilot" and Anthony Polemarkis of Avionics Place. Details are on file W.O. F. #9079 H. This installation requieres Airplane Flight
Manual Supplement (AFMS) for PA34-200T with
GNS-430 GPS Navigation Approved MAR 2 0 2000
Operation must be conducted in accordance
with the provisions of this AFMS. AFMS and
pilot's operating handbook has been placed in
the aircraft and is readily available to the Control, operation information: 45.67. Servicing information: N/A Maintenance instructions: N/A Trouble shooting information: N/A Removal and replacement information: N/A 8. Diagrams: N/A
9. Special inspection requirments: N/A
10. Application of protective treatments: N/A
11. Data: N/A 11. 12. 13. 14. List of special tools: N/A
Commuter category A/C: N/A
Recommended overhaul periods: N/A
Airworthiness Limitations Section: N/A
Revision: A letter will be submitted to the local FSDO with
a copy of the revised FAA Form 337 and revised ICA. 16. Revision:

P.P.34-200T 4h N47815 3-10-00



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

Form Approved OMB No. 2120-0020

For FAA Use Only

Office prentifice DPA-FSDO

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 PIPER PA-34 1. Aircraft Serial No. Nationality and Registration Mark -----34-7870004-USA-N47815 Name (As shown on registration certificate) Address (As shown on registration certificate) ي سيد 2. Owner AUDIO VISUAL RENTALS BY WIZDUM LTD 3353 N. RIDGE AVE ARLINGTON HEIGHTS, ILL. 60004 3. For FAA Use Only 4. Unit Identification 5. Type Unit Make Model Serial No. Repair Alteration AIRFRAME As described in Item 1 above) XX 32101 Jr POWERPLANT BANK TO THE The same of the month is about 1 figures actions and the same unotiti in karra. Tugi entre a isasé Ni wati kiti has kapandhi sa kendia kiti hati bi tan isason na binni La oriti in karra. Tugi regordi si regumbu uyra ti ( 3 % C O 1 %21 ti Folk ti ita ni partipan et ti firma orat pann PROPELLER. .. APPLIANCE Manufacturer 6. Conformity Statement A. Agency's Name and Address B. Kind of Agency C. Certificate No. U.S. Certificated Mechanic PRIESTER AVIATION SERVICES, INC. Foreign Certificated Mechanic 26E. PALITINE ROAD X | Certificated Repair Station PRIR248H WHEELING, IL. 60090 D. I certify that the repair and/or alteration made to the unit(s) identified in item 4 above and described on the reverse or attachments hereto have been made in accordance with the requirements of Part 43 of the U.S. Federal Aviation Regulations and that the information furnished herein is true and correct to the best of my knowledge." Date Signature of Authorized Individual A STORY OF FUCT. 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: \(\infty \overline{\Omega} \) APPROVED \(\overline{\Omega} \) \(\overline{\Omega} \) REJECTED: \(\overline{\Omega} \) FAA Fit-Standards 4... Other (Specify)

Inspection Authorization 🛷

Person Approved by Transport

Signature of Authorized Individual

Canada Airworthiness Group

7/21/97

BY

Inspector-

Date of Approval or Rejection

**FAA Designee** 

1.3

Manufacturer.

Repair Station

Certificate or Designation No.

PRIR248H

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.

. C	Description of Work Accomplished III more space is required, attach additional sheets	is. Identify with aircraft	nationality and i	registration mark and dat	e work completed.
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# MAJOR REPAIR AND ALTERATION (Airframe, Powerplant, Propeller, or Appliance)

Form Approved OMB No. 2120-0020

For FAA Use Only

Office Identification

DPA-FSDO<sup>A</sup>

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 e	each suc	h violation (Sec	tion	901 Federal Aviat	ion Act	of 19	958).	•	•	-					
	•	Make Piper	•					Model , PA34-200T							
1. Air	craft	Serial No. 34-7870004							Nationality and Registration Mark N47815						
Name (As shown on registration certificate) Audio Visual Rentals by Wizdum LTD						)	Address (As shown on registration certification 3353 N. Ridge Ave Arlington Hts., Illinois 60004								
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compatible with all previous alterations to assure continued conformity with the applicable airworthiness reguirements.

Piper PA-34-200T, s/n 34-7870004, N47815 8. Description of Work Accomplished (If more space is required, attach additional sheets. Identify with aircraft nationality and registration mark and date work completed.) Weight and balance or operating limitation changes shall be entered in the appropriate aircraft record. An alteration must be

.19179 (TSO C44a) and fuel flow transducers p/n 680501X s/n 94008 and Digitlo-L consisting of Digitlo Indicator/Computer p/n 910532P, s/n 3168 Installed Shadin Company Incorporated Fuel Flow Indicating System model Removed Piper Fuel Pressure Gauge p/n 6221 s/n 103761.

aircraft systems. Shadin Digiflo-L operating manual p/n OP91053B provided. service and found to operate properly with no interference with/from other reflect this change. System checked per Shadin instructions for return to for provisionary puposes. Weight & balance / equipment list revised to or GPS unit at this time but wiring has been installed, capped, and stowed flow transducers. The Digiflo is not interfaced with any external Loran Shadin STC # SE624GL for the Indicator and STC # SE624GL for the fuel - The Digiflo Fuel Flow Indicating System has been installed i/a/w

--END-

FILE: 47815-1.wpd

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# US Department of Transportation Federal Aviation Administration .

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

Form Approved 17 129MB No. 2120-0020

For FAA Use Only Office Identification

DPA-FSDO

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 e	each su	ch violation (Sed	ction	901 Federal Avia	ion Act	of 19	958).	3	•	• .	•					
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0/	6/10/98 PRIR248H							K 1	- 1			İ				

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

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US Deportmen

Federal Aviation Administration

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

Form Approved OMB No. 2120-0020

For FAA Use Only

R

Office Identification

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

and dispo	osition of this form such violation (Se	ı. Th ectio	nis report is required on 901 Federal Avia	J by law tion Ac	/ (49 l :t of 1	U.S.C. 1421). Fa 1958).	ilure to rep	ort can result in a	civil pena	ilty not to exc	eed \$1,000			
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Weight and balance or operating limitation changes shall be entered in the appropriate aircraft record. An alteration must be compatible with all previous alterations to assure continued conformity with the applicable airworthiness requirements.

8. Description of Work Accomplished

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

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- 2) SEE WEIGHT + BALANCE FORM DATED 5-6-97 THAT REFLECTS CURRENT INFORMATION.

END -

US Department of Transportation	ı
Federal Aviation	n

# 10 18 15 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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Weight and balance or operating limitation changes shall be entered in the appropriate aircraft record. An alteration must be compatible with all previous alterations to assure continued conformity with the applicable airworthiness requirements.

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

INSTALLED VORTEX GENERATOR KIT PER STC # SADOIG9SE INSTALLATION MANUAR DATES JUNE 20, 1994. P.O.H. SUPPLEMENT WAS SUPPLIED WITH AIRCRAFT RECORDS

SEE WEIGHT & BALANCE FORM DATED 5/31/96 THAT REFUECTS

CURRENT INFORMATION.

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US Deportment of Transportation Federal Aviation

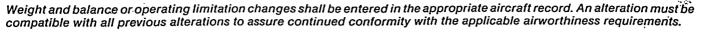
## **MAJOR REPAIR AND ALTERATION** (Airframe, Powerplant, Propeller, or Appliance)

Form Approved OMB No. 2120-0020

For FAA Use Only

Office Identification

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

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INSTALLATION MANUAL DATES JUNE 20, 1994. P.O.H.
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CURRENT INFORMATION.

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

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

Installation of R.M.D. Lighted Wing Tips Installed 2 ea. lighted wing tips, R.M.D. kit part # RMD-00150-PS serial # 253 in accordance with installation instructions part # 5025-PS and Piper PA34-200T installation drawings, dated March 20, 1985, included in the installation instructions. Lighted wing tips approved for installation under S.T.C. SA1401NW. Wiring was accomplished using # 12 ga. wire included in kit and power was supplied through a 25 Amp circuit breaker also provided with kit. All work accomplished in accordance with practices set forth in AC 43.13-1A & 2A/3. The weight and balance has been revised to indicate an increase of 4 Lbs.

**END** 

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

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

### - Installation of Pulselite System -

Installed Precise Pulselite Model # 1210/2405-2A in accordance with installation instructions # PPRI-3000, Rev. 4, dated may 5, 1993. Pulselite control power supplied through 3 Amp circuit breaker using # 20 ga. wire, and was wired in accordance with Precise Flight, Inc. Drawing No. 000P055M, dated March 31, 1993. System approved for installation under S.T.C SA4005NM. All work done in accordance with practices set forth in AC 43.13-1A & 2A/3. Revised weight and balance

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

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

## Installation of Inflatable Door Seal

Installed Bob Fields Aerocessories inflatable door seal in accordance with installation instructions "Report BFA310, Rev. #2, dated Feb. 26, 1993. Power for compressor supplied through a 5 Amp circuit breaker and wired in accordance with installation instructions. Door seal approved for installation under S.T.C. SA4234WE. All work done in accordance with practices set forth in AC43.13-1A & 2A/3. Revised weight and balance

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et Bureau No 04-R060.1 MAJOR REPAIR AND ALTERATION FOR FAA USE ONLY (Airframe, Powerplant, Proje or er Applionce) ICE IDENTIFICATION INSTRUCTIONS: Print or type all entities See F.W. 5.9, Fall 41 Appendix B, and AC 43.00 for inastructions and disposition of this form. DPA-ESDO PIPER MODEL I. AIRCRAFT PA34-200T SERIAL NO. NATIONALITY AND REGISTRATION MARK N47815 34-7870004 NAME (As shown an required an cortificati 2. OWNER ADDRESS (As shown on registration certificate) 4510 Kirchoff Road Audio & Visual Rentala By Rolling Meadows, Il. 60008 3 FOR FAA USE OMEY 北层山 . . 5 2A n Girt E.A. L. 4. UNIT IDENTIFICATION S. TYPE SEEIAL NO. ALTER REPAIR AMPRAME ATION X क्रांस्थित्वरेश कृत POWERHANT Tallon a tell a PROPELLER APPLIANCE 6. CONFORMITY STATEMENT AGENCY'S NAME AND ADDRESS Robert W. Sommers for Service Aviation 1120 S. Milwaukee Ave., Hangar One B. KIND C GENCY C. CERTIFICATE NO. X U.S. CERTIFICATED A NIC. Pal-Waukee Airport POREIGN CERTIFICATE Wheeling, Il. 60090-6392 CESTIFICATED REPAIR STATION D. I certify that the repair and/or alteration made to the unit(s) identified in item 4 above and desc attachments hereto have been made in accordance with the requirements of Part 43 of the U.S. Feder and that the information furnished herein is true and correct to the best of my knowledge. MANUFACTURES DATE SIGNATURE OF AUTHORIZED INJEVIDUAL May 17, 1994 ober bmm 7. APPROVAL FOR RETURN TO SERVICE Pursuant to the authority given persons specified below, the unit identified in the days inspected in the manner prescribed by the Administrator of the Federal Aviation Administration and is APPROVED REJECTED INSPECTION AUTHORIZATION CANADIAN DEPARTMENT FAA DESIGNEE PAR STATION OF TRANSPORT INSPECTOR OF AMERICA DATE OF APPROVAL OR CERTIFICATE OR SIGNATURE OF AUTHORIZED REJECTION DESIGNATION NO. 348566832 NDIVIOUAL May 17, 1994 obers mmer

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8. DESCRIPTION OF WORK ACCOM Identify with aircraft nationality and re-

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Installatio, of R.M.D. Lighted Wing Tips—
Installation and Lighted wing tips, R.M.D. kit part # RMD-00150-PS, serial # 253 in accordance with installation instructions part # 5025-PS and Piper PA34-2007 installation drawings, dated March 20, 1985, installation that the installation drawings, dated March 20, 1985, installation drawings. included in the installation instructions. Lighted wing tips approved for installation under S.T.C. SA1401NW. Wiring was accomplished using # 12 ga. wire included in kit and power was supplied through a 25 Amp er also provided with kit. All work accomplished in ith practices set forth in AC 43.13-1A & 2A/3. The weight accor has been revised to indicate an increase of 4 Lbs.

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

- Installation of Pulselite System

Installed Precise Pulselite Model # 1210/2405-2A in accordance with installation instructions # PPRI-3000, Rev. 4, dated may 5, 1993. Pulselite control power supplied through 3 Amp circuit breaker using # 20 ga. wire, and was wired in accordance with Precise Flight, Inc. Drawing No. 000P055M, dated March 31, 1993. System approved for installa n under S.T.C SA4005NM. All work done in accordance with h in AC 43.13-1A & 2A/3. Revised weight and balance END -

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

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

#### Installation of Inflatable Door Seal

Installed Bob Fields Aerocessories inflatable door seal in accordance with installation instructions "Report BFA310, Rev. #2, dated Feb. 26, 1993. Power for compressor supplied through a 5 Amp circuit breaker and wired in accordance with installation instructions. Door seal approved for installation under S.T.C. SA4234WE. All work done in accordance with practices set forth in AC43.13-1A & 2A/3. Revised leighband balance.

END

"L'INSTRUME MET ME ATTACHED

THE COVERENCET PRINTING OF FICE: IMMA-690-121/40260

JUN 22 1993

#### DEPARTMENT OF TRANSPORTATION Form Approved Budget Bureau No. 04-R060,1 FEDERAL AVIATION ADMINISTRATION FOR FAA USE ONLY MAJOR REPAIR AND ALTERATION OFFICE IDENTIFICATION (Airframe, Powerplant, Propeller, or Appliance) DPA-FSDO 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. PA34-2007 iper 1. AIRCRAFT NATIONALITY AND REGISTRATION MARK 1047815 SERIAL NO. 34-7870004 ADDRESS (As shown on registration certificate) 4510 Kinchoff, Rd. 2. OWNER Edward Gamboz Meadows, JLL. 3. FOR FAA USE ONLY 原设的对对外 - G-13/5 4. UNIT IDENTIFICATION 5. TYPE MAKE SERIAL NO. REPAIR ATION AIRFRAME POWERPLANT PROPELLER APPLIANCE MANUFACTURER 6. CONFORMITY STATEMENT A. AGENCY'S NAME AND ADDRESS B. KIND OF AGENCY C. CERTIFICATE NO. Roger R. Shadick fride Aircraft Inc U.S. CERTIFICATED SECURIC 393665855 1651 Gramman Dr. Rockford JU CERTIFICATED TE TON 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 Fair 43 of the U.S. Federal Aviation Regulations and that the information furnished herein is true and correct to the best only knowledge. SIGNATURE OF AUTHORIZED INDIVIDUAL 6-18-93 7. APPROVAL FOR RETURN TO SERVICE Pursuant to the authority given persons specified below, the unit identified in item 4 was inspected in the manner prescribed by the Administrator of the Federal Aviation Administration and is APPROVED REJECTED FAA FLT. STANDARDS OTHER (Specify) MANUFACTURER INSPECTION AUTHORIZATION CANADIAN DEPARTMENT, OF TRANSPORT INSPECTOR OF AIRCRAFT PAA DESIGNEE REPAIR STATION DATE OF APPROVAL OR CERTIFICATE OR DESIGNATION NO. SIGNATURE OF AUTHORIZED INDIVIDUAL 6-18-93 373665855

FAA Form 337 (7-67)

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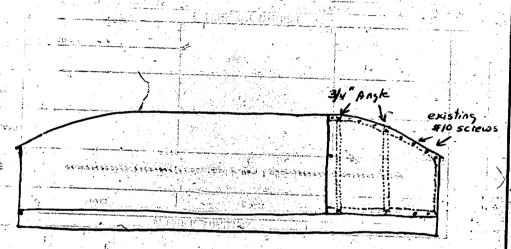
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DESCRIPTION OF WORK ACCOMPLISHED (If more space is required, attach additional sheets. Identify with aircraft nationality and registration mark and date work completed.)

glove box and associated hardwark. Made a new instrument panel out of original material and thickness, Panel was attached using existing hardware and attach points. A radio rack was installed with 3/4" aluminum angle. All work performed in accordance with AC 43.13-1A +2.



Left hand angle attached with #10 screws - lock nuls. Righthand engle attached with #8 screws - locknuts:

Front panel made From . 040 2024 13 - Same as 14-33.0564.g

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8. Description of Work Accomplished

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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.

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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 BENDIX/KING KLN-88 LORAN, KA-83 LORAN ANTENNA AND CLINTON RELAY RSU-21.

SYSTEM INSTALLED USING MANUFACTURERS MOUNTING TRAY. WIRING FABRICATED BY PRIR248H. OVERALL INSTALLATION ACCOMPLISHED IN ACCORDANCE WITH BENDIX/KING INSTALLATION MANUAL, AC 43.13-1A CHAPTERS.11, 13 AND 15, AC 43.13-2A CHAPTERS 2 AND 3 AND AC 20-121A FOR IFR INSTALLATIONS.

THE KLN-88 LORAN IS INTERCONNECTED TO THE #2 CDI MODEL IND-350 AND CENTURY AUTOPILOT THROUGH A CLINTON RSU-21 RELAY SWITCHING ASSEMBLY. A PANEL MOUNTED PUSH BUITON ANNUNCIATOR/SWITCH CONTROLS THE RSU-21 TO PROVIDE EITHER VOR/LOC OR LORAN DEVIATION INFORMATION TO THE CDI AND AUTOPILOT. IN THE UNACTUATED POSITION, THE ANNUNCIATOR/SWITCH "NAV" LAMP IS LIT AND VOR/LOC INFORMATION IS PROVIDED TO THE CDI AND AUTOPILOT. IN THE ACTUATED POSITION THE ANNUNCIATOR/SWITCH "LORAN" LAMP IS LIT AND LORAN STEERING INFORMATION IS PROVIDED TO THE CDI AND AUTOPILOT. WITH THE ANNUNCIATOR/SWITCH SELECTED TO "LORAN" AND AN ILS FREQUENCY CHANNELED ON THE #2 NAV, THE CDI WILL DISPLAY LOC INFORMATION, THE "LORAN" LAMP WILL EXTINGUISH AND "NAV" WILL LIGHT AND LOC STEERING INFORMATION WILL BE PROVIDED TO THE AUTOPILOT.

A BENDIX/KING KLN-88 PILOTS GUIDE P/N 006-08458-0000 REV. ORSO1 HAS BEEN PROVIDED TO THE AIRCRAFT OWNER/OPERATOR AND MUST BE CARRIED ON BOARD AND AVAILABLE WHEN NAVIGATING UNDER IFR WITH THE KLN-88. AN AIRPLANE FLIGHT MANUAL SUPPLEMENT HAS BEEN PROVIDED PER AC 20-121A APPENDIX 1, SECTION 2, PARAGRAPH C. KLN-88 SYSTEM LIMITED TO VFR OPERATION UNTIL FAA APPROVAL OF FLIGHT MANUAL SUPPLEMENT AT WHICH TIME THE SYSTEM MAY THEN BE OPERATED UNDER IFR. FLIGHT MANUAL SUPPLEMENT DATED ##N 1 3 1991 MUST BE CARRIED ON BOARD AND BE AVAILABLE WHEN NAVIGATING UNDER IFR WITH THE KLN-88.

AIRCRAFT EQUIPMENT LIST/WEIGHT & BALANCE HAVE BEEN REVISED TO REFLECT THIS INSTALLATION. ELECTRICAL LOAD CHECK DOES NOT EXCEED 80% OF CAPABILITY.

THE SYSTEM HAS BEEN GROUND AND FLIGHT CHECKED BY PRIR248H AND FOUND TO FUNCTION PROPERLY AND NOT TO INTERFERE WITH OTHER INSTALLED EQUIPMENT. THE KLN-88 SYSTEM MEETS THE MINIMUM ACCURACY REQUIREMENTS AS STATED IN AC 20-121A, SECTION 9 FOR TERMINAL AND ENROUTE OPERATIONS. FLIGHT TEST RESULTS ARE ON FILE AT THIS REPAIR STATION.

TEST PILOT SIGNATURE

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PLACARD INSTALLED STATING "LORAN C NOT APPROVED FOR APPROACH".

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ADDITIONAL SHEETS ARE ATTACHED

FAA AC 72-4906

- 4U.S. GOVERNMENT PRINTING OF FICE, 1986-659-121/40260

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FAA Form 337 (7-67)

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

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

Installed 3M Ryan WX-1000 Stormscope Weather Mapping System in accordance with Installation Manual 78-8060-5820-8, dated May 1988, rev. 8/23/88. All work was also done in accordance with AC43.13-1A Chapter 11 and AC43.13-2A Chapter 2 & 3.

Weight and Balance was computed and entered in appropriate aircraft

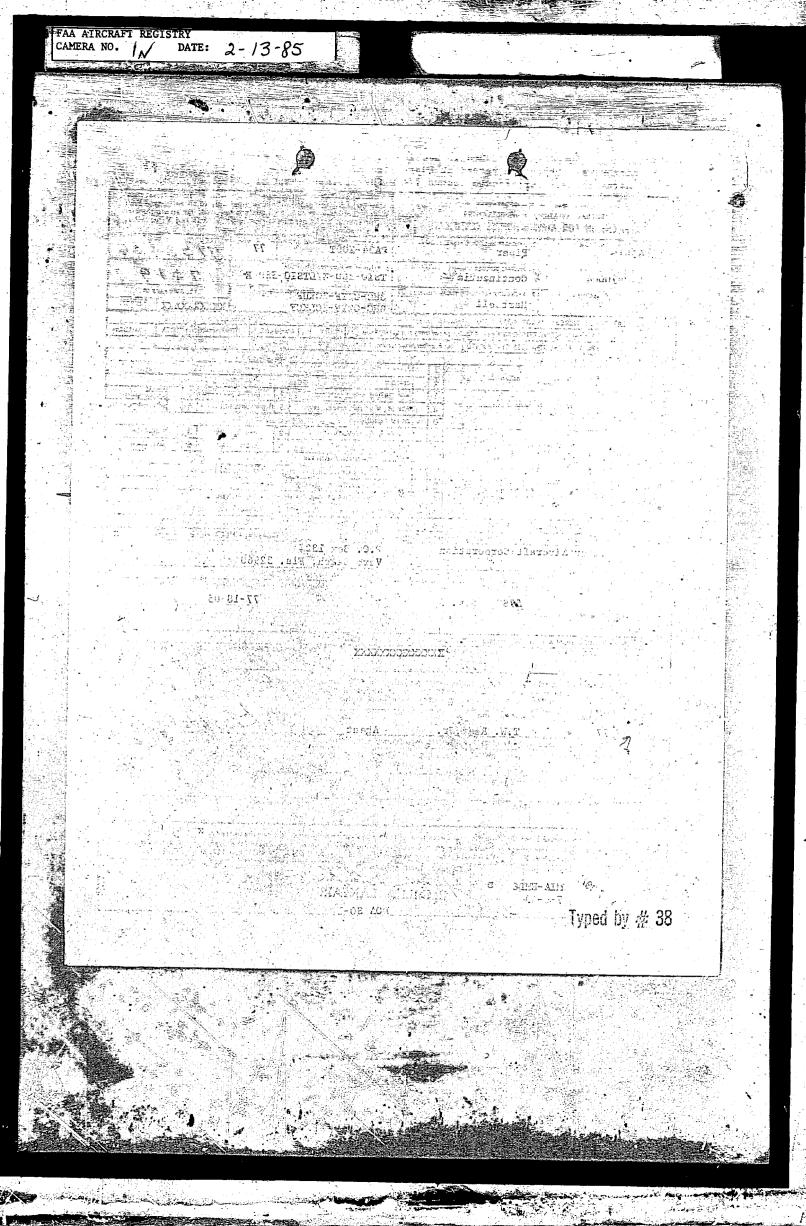
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The information normally inished in Section VIII is on fine as p of the historical inspect of record at Piper Aircraft Corporation. of the historical inspection record at Piper Aircraft Corporation.

Current Airworthiness Certificate issued I/A/W FAR 21.183(a) PER 21.273 Budget Bureau No. 04-R0058 INSTRUCTIONS—Print or type. Do not write in shaded areas; these are for FAA use only. Submit original only to an authorized FAA Representative. If additional space is required, use an attachment. For special flight permits complete Sections II and VI or VII as explicable. DEPARTMENT OF TRANSPORTATION
FEDERAL AVIATION ADMINISTRATION APPLICATION FOR AIRWORTHINESS CERTIFICATE REGISTRATION
N47815 AIRCRAFT BUILDER'S NAME ( make ARCRAFT MODEL DESIGNATION 4 YR. MFG. FAA COOR PA34-200T Piper 7143446 5. AIRCRAFT SERIAL I Engine Builder's Name (make) Continental AIRCRA ENGINE MODEL DESIGNATIO TSIO-360-E/LTSIO-360-E B. NUMBER OF ENGINES PROPELLER BUILDER'S NAME (multe) BHC CZYF ZCKUP 11. AIRCRAFT IS Hartzell BHC-C2YF-2CLKUF APPLICATION IS HEREBY MADE FOR: (Check applicable items) X STANDARD AIRWORTHINESS CERT. (Indicate category) X NORMAL UTILITY ACROBATIC TRANSPORT GLIDER BALLOON SPECIAL AIRWORTHINESS CERTIFICATE (Check appropriate items) 2 LIMITED REQUESTED CLASS 5 PROVISIONAL (Indicate class) 2 CLASS II 1. AERIAL ADVERTISING WEATHER CONTRO AGRICULTURE & PEST SONTROL AERIAL SURVEYING 3 RESTRICTED (ledicale operation(1) to be conducted) 3 .4 FOREST (Wild life conservation) CERTIFICATION 5 PATROLLING OTHER (Specify) O RESEARCH AND DEVELOPMENT 1 .2 AMATEUR BUILT EXHIBITIO." EXPERIENTAL (Indicate operation(s) be conducted) 4 RACING CREW TRAINING 6 5 MIKT SURVEY 0 TO SHOW COMPLIANCE WITH FAR FERRY FLIGHT FOR REPAIRS, ALTERATIONS, MAINTENANCE OR STORAGE SPECIAL FLIGHT PERMIT e Indicate operation to be conducted then complete Section VI or VII us applicable on reserve side) EVACUATE FROM AREA OF IMPENDING DANGER 2 8 OPERATION IN EXCESS OF MAX CERTIFICATED TAKE OFF WEIGHT 3 4 DELIVERING OR EXPORT 5 PRODUCTION FLIGHT TESTING MULTIPLE AIRWORTHINESS CERTIFICATE (Check appropriate Restricted Operation and Standard or Limited a applicable above, A. REGISTERED OWNER (As shown on Certificate of Aircraft Registration) IF DEALER, CHECK HERE Piper Aircraft Corporation 4P0 € Box 1328 Vero Beach, Fla. 32960 B. AIRCRAFT CERTIFICATION BASIS (Check applicable blocks and complete items as indicated) CERTIFICATION AIRCRAFT SPECIFICATION OR TYPE CERTIFICATION DATA SHEET (Give No and Revision No.) AIRWORTHINESS DIRECTIVES (Check if all applicable AD's complied with and give latest AD No J A750 Rev. 5 AIRCRAFT LISTING (Give page No(1).) 77-18-05 SUPPLEMENTAL TYPE CERTIFICATE ! LIST NA C. AIRCRAFT OPERATION AND MAINTENANCE RECORDS X CHECK IF RECORDS IN COMPLIANCE WITH TOTAL AIRFRAME HOURS - TOTAL AIRFRAME HOURS EXPERIMENTAL ONLY - Enter hours flown since Tail regisficace issue 3 or renewed D. CERTIFICATION—I hereby certify that I am the owner (or his agent) of the aircraft described above, that the aircraft is registered with the Federal Aviation Administration in accordance with Section 501 of the Federal Aviation Act of 1958, and applicable Federal Aviation Regulations; and that the aircraft has been inspected and is airworthy and eligible for the airworthness vertificate requested ≓ T.W. Reed, Jr. Agent THE AIRCRAFT DESCRIBED ABOVE HAS BEEN INSPECTED AND FOUND AIRWORTHY BY: (Complete 1b): only if FAR 2: 183 (d) applies) FAR PART 121 OR 127 CERTIFICATE HOLDER (Gire Certificate No.) CERTIFICATED MECHANIC (Gire Certificate No.) 2 CERTIFICATED REPAIR STATION / GHE CANES. AIRCRAFT MANUFACTURER (Gire Name of Firm) 5 TITLE (Check ALL applicable blocks) I find that the aircraft described in Section I or VII meets the requirements for 🐴 ] The certification requested, or 4 Amendment or modification of its current algorithmess certificate. Inspection for a special flight permit a Section VII was conducted by: FAA Inspector; certificate holder under FAR 65, FAR 121 or 127, or FAR 145. DISTRICT OFFICE DESIGNEE'S SIGNATURE AND NO MIA-EMDO 47. JIMMIE A. LANFAIR 7-0-43 DOA SO-1 FAA Form 8130-6 (7-70)

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FAA AIRCRAFT RECISTRY
CAMERA NO. DATE: 2-13-85 UNITED STATES OF AMERICA
DEPARTMENT OF TRANSPORTATION FEDERAL AVIATION ADMINISTRATION
STANDARD AIRWOBINLESS CERTIFICATE E PA34-200T AV Piper/// N47815 24-1870004 5. AUTHORITY AND BASIS FOR ISSUMPTE
This cirrorthiness certificate is ideed purs date of issuance, the circorthing which iss therefor, to be in condition from the opera comprehensive and detailed girworthiness. Aviation, except us noted barein.

Exceptions: ACO NOS Unless sooner surrendered, suspended, evoked, or termination date is otherwise this airworthiness certificate is there as long as the maintenance, prestructive performed in occordance with Policy 2 on and 91 of the Federal Avignos aircraft is registered in the Unital Surgest

DATE OF ISSUANCE

OCT L 7 1977

FAA REPRESENTATION

FAST REPRESENTATION TO THE PROPERTY OF THE PROPERTY O None DOA SO-1 Any alteration, reproduction, or misus of this certificate may be punishable by a fine not exceeding \$1,000, or imprisonment not exceeding 3 years or both. THIS CERTIFICATE MUST BE DISPLAYED IN THE AIRCRAFT IN ACCORDANCE WITH APPLICABLE FEDERAL AVIATION REGULATIONS. FAA Form 8100-2 (7-67) FORMERLY FAA FORM 1362

