N13839 1970 Piper Turbo Aztec D

FAA Form 337s

MSN: 27-4480



Prepared by the worldwide aviation specialists at RidgeAire, Inc.

6	
	Department

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

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

For FAA Use Only

(Airframe, Powerplant, Propeller, or Appliance) **Federal Aviation** Administration 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. 1. Aircraft N13839 27-4480 Make Model Series Piper PA-23-250 Aztec Address (As shown on registration certificate) Name (As shown on registration certificate) 2. Owner Address PO Box 7007 Deaton John G City Petaluma Zip 94955-7007 Country USA 3. For FAA Use Only 5. Unit Identification 4. Type Repair Alteration Unit Make Model Serial No. Х (As described in item 1 above) **AIRFRAME POWERPLANT PROPELLER** Туре **APPLIANCE** Manufacturer 6. Conformity Statement A. Agency's Name and Address B. Kind of Agency Name Michael Tillman C/O Mangon Aircraft Inc. U.S. Certificated Mechanic Manufacturer Address 501 Sky Ranch Dr. C. Certificate No. Foreign Certificated Mechanic City Petaluma State CA Certificated Repair Station 2845176 Zip 94954 USA 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. Extended range fuel per Signature/Date of Authorized Individual 14 CFR Part 43 App. B Michael Tillman 8/13/2014 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 Person Appoved by Canadian Manufacturer Maintenance Organization Inspector Department of Transport BY (Specify) Other Repair Station hspection Authorization **FAA** Designee Signature/Date of Authorized Individual Certificate or Designation No.

Michael Tillman 8/13/2014

2845176

		113839 .		8/13/2014
. See	Na	tionality and Registration Mark		Date
	•			
CC	ONCORDE BATTERY	/ INSTALLATION		
Removed OEM Gill batt	ery. SLA series battery in order and made part of	original location per the approve	ed FAA STC number SA11	47WI and Piper Aircraft
	·			-
********	**************************************	G FOLLOWS***************	******	
	⊷	•		
•				·
		,		
.!	; i	į.	. j	
•	1,		"	
• •				
•	• · · · · · · · · · · · · · · · · · · ·		•••	
	•		•	•

U.S. Department of Transportation

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

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

For FAA Use Only

Federal Aviat Administration										1			
instruction	s and disp violation (osition of th	is form 46301	. This re _l a)).					s.C. §44701). Failu			ent revision thereof) for result in a civil penalty for	
1. Aircra	e.	Nationality and Registration Mark N13839						Serial No. 27-4480					
	Make Pipe								Model PA-23-250			Series Aztec	
2. Own	Name (As shown on registration certificate) Deaton John G								Address (As shown on registration certificate) Address PO Box 7007 City Petaluma State CA 2ip 94955-7007 Country USA				
					3. F	For	FA	A Use Only	1				
4.	Туре			·	5. U	Init	lde	entification					
Repair	Alteration	on Ur	nit		Mal	ke			Model			Serial No.	
	x	AIRFRA	ME					_	(As described in item 1 above)		e)		
		POWER	RPLANT										
		PROPE	LLER										
		APPLIA	NCE	Type Manufa	cturer								
	_ 				6. C	Conf	or	mity State	nent		I		
		and Addres						B. Kind of	Agency				
-		an C/O Mang	on Aircra	t Inc.	 	— <u> </u> 2	X	U.S. Certifica	ted Mechanic			Manufacturer	
_	501 Sky Rand Petaluma	on Dr.		State CA		-	_	Foreign Certificated Mechanic				Certificate No.	
· -	94954 Country USA			- - -		Certificated Repair Station 2845176 Certificated Maintenance Organization			5176				
heret	o have been hation furn	en made in ished herei	accorda n is true	ance with and corr	the requirer rect to the b	men	ts of	of Part 43 only my knowled	f the U.S. Federal	scribed on Aviation Re	the re	verse or attachments ions and that the	
14 CFR Parl			ignatur	Date of	Authorized	И	A	2		ichael Tillm	an 8/	/13/2014	
		41. **						or Return T					
the	Administra	tor of the F	given p ederal	ersons sp Aviation A	decified beloated bel	ow, t	ne nd	is 🖌 APPI	ed in item 5 was in: ROVED	REJECTE	D	nanner prescribed by	
ву	Inspector	Standards		Manufa	cturer			Maintenan	ce Organization			poved by Canadian nt of Transport	
	FAA De	•	F	Repair Sta	ation	X	7	Inspection	Authorization	Other (S	Specif	- - - - - - - - - - - -	
Certificate	or Designation	n No.	V	Signature	/Date of Aut	19	ze	d Individual				,	
2845176				lia	<u>Lel</u>	JΔ		سير	Michael Tillman	8/13/2014	4		

8. Description of Work Accomplished (If more space is required, attach addition	nal sheets. Identify with airc	eraft nationality and regis	stration mark and date work complete				
(, , , , , , , , , , , , , , , , , , ,	1		The same same same same same same same sam	-			
	N13839	8/13/2014					
	Nationality and Registration	n Mark	Date				
INSTALLATION OF DOC	OR STEWARD DOOR ASSI	T GAS SPRING					
 Removed OEM door slide guide system. Installed Door Steward door assit gas spring modification IAW FAA approved STC number SA1120SE per Door Steward instruction sheet # MVA-B40C10M&O section A2, 1 thru 18, on aircraft main cabin door. Item added to aircraft equipment list. Weight & Balance change negligible. Instructions for Continued Airworthiness made part of aircraft records. 							
**************************************	IING FOLLOWS************	*********	****				
			· '				
•							
•							
		· · · · · · · · · · · · · · · · · · ·	i				
	Additional Sheets	Are Attached					

JS Department
of Transportation

of Transportation Federal Aviation Administration

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

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

For FAA Use Only

NSTRUCTIONS: 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
nstructions 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))

instruction each such	s and dispo violation. (4	sition of this form 9 U.S.C. §46301(This report is red	uired	d by law (49 U	.S.C. §44	701). Failur	e to report	can re	esult in a civil penalty for
	US	tionality and Regis N13839	tration Mark			Serial No 27-4480).			
1. Aircrat	Ma Pip					Model PA-23-2	50		Serie	es
Name (As shown on registration center) Deaton, John G.							(As shown P.O. Box 7	_	ion cei	rtificate)
2. Owner	·						Petaluma		HCA	State CA
						Zip	94955	Countr	y <u>USA</u>	
	·			3. F	or FAA Use	Only				
4.	Туре				5. Unit Identi	fication	••.			······································
Repair	Alteration	Unit	١	/lake			Mode	el .		Serial No.
		AIRFRAME				(As de	escribed in I	tem 1 abov	e)	
		POWERPLAN								
		PROPELLER								
		APPLIANCE	Туре							
		AFFLIANCE	Manufacturer	ırer						
6. Conformity Statement										
A. Agenc	y's Name an	d Address		В	. Kind of Ager	псу				
Name				<u> </u>	U.S. Certificated Mechanic					Manufacturer
		<u> </u>	ite	-					C. Ce	ertificate No.
City Zip		Country		\vdash	Certificated I		e Organizatio	on		
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.										
	range fuel	Sig	eture/Date of Aut	hgitize	ed Individual			 -		
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 Approved Rejected										
	AA Flt. Stan	dards Ma	ufacturer		Maintenance	Organizati	ion	Depart	ment of	oved by Canadian Transport
F	AA Designe		air Station	x	Inspection Au	thorization	1	Other (Spe	ecify)	
Certificate Designation		Sig	Dature Date of Aut	horize	ed Individual	-12	-10			
FAA Form 337 (10-06)										

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

8. Description of Work Accomplished

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

US N13839

5-12-10

Nationality and Registration Mark

Date

A summary of the alteration done to the aircraft is as follows:

This alteration performed I.A.W. STC SA09123AC-D dated 10/12/1995 and last amended 8/29/2007, listing this particular Model 23-250 Piper.

Equipment Installed:

Installed S-Tec System 55X Autopilot I.A.W. S-Tec Installation manuals listed in Documentation section below.

The system is composed of the following components:

ST-607-55X System, including:

P/N	Name	Certification	Installed at
TK-607	Autotrim	TSO C9c	N/A
0105-T8	Trim Servo	TSO C9c	f.s. 171.37
64121-01	Indicating Encoder	TSO C10b, C88	f.s. 65
ST-645	LCD Annunciator	TSO C9c, C52s	f.s. 65
01192-6-8T	Prgrmr/Computer	TSO C9c, C52a	f.s. 65
0105-R9	Roll Servo	TSO C9c	f.s. 91.50, right engine nacelle
0107-P1	Pitch Servo	TSO C9c	f.s. 192.37
6405-14L	Turn Coordinator	TSO C3b	f.s. 65
0111	Absolute Pressure Tra	ansducer (PMA)	f.s. 211.0
ST-1000	Altitude Selector	TSO C9c	f.s. 65
1			

and install kits and cable assemblies supplied by the manufacturer for this installation.

Performed an electrical load analysis, and the total current draw by all equipment does not exceed 80% of the supply current available.

Interfaces:

Connected System 55X power input to a new 5A circuit breaker for power source. Interfaced 55X to existing GNS 430W GPS/Comm, p/n 013-00235-00, GNS 530W GPS/Comm p/n 011-01065-00 and existing KI 525A through existing Nav select relay for steering information. Interfaced S-Tec Indicating Encoder and SA-200 Altitude Selector to the 55X for altitude information.

Performed post installation configuration and test procedures I.A.W. Installation Manual listed below.

Applicable alteration documentation:

See next sheet.

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.,	
	US N13839	8-12-10
Applicable alteration documentation: S-Tec System 55X STC Installation Manual p/n ST-607, Rev. 3 S-Tec SA-200 Altitude Selector Installation Bulletin p/n ST-1000 S-Tec ST-645 Annunciator Installation Bulletin p/n ST-645, Rev Garmin 400W Series Installation Manual p/n 190-00356-02 Rev	9	Date
Radio Strapping - AC 43.13-2B Chapter 2 Section 201, 202, 203 Structural Data - AC 43.13-2B Chapter 1 Section 103, 105, 108. Weight and Balance - AC 43.13-1B Chapter 10 Section 1 Par 10 Wire is inspected to conform to AC 43.13-1B Chapter 11 Section 3 Par 1 Equipment Installation AC 43.13-1B Chapter 11 Section 3 Par 1 Electrical Load Determination AC 43.13-1B Chapter 11 Section 4 Pa Wire Size AC 43.13-1B Chapter 11 Section 5 Par 11-66 through Environmental Protection AC 43.13-1B Chapter 11 Section 9, S	, 109, 111, 112 0-2 1 11-1, 2, 3 1-30 - 32 Par 11-36 ur 11-47-51 n 69	
Documents for aircraft records: The aircraft was weighed after alterations were completed. Updated Aircraft Equipment List Inserted Instructions for Continued Airworthiness, S-Tec Report 81620, for the Altitude Selector and inserted in aircraft records. Attached STC Permission Letter Inserted Airplane Flight Manual Supplements for 55X (p/n ST-66)	·	, , , , ,

☐ Additional Sheets Are Attached

6	
JS Depa	artment

MAJOR REPAIR AND ALTERATION

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

US Department of Transportation (Airframe, Powerplant, Propeller, or Administration														or FAA Use Only			
INSTRUCT instructions each such	and dispo	osition of	f this fo	orm. This	ee Title 14 C s report is re	FR { quire	§43.9 ed by	9, Part 43 / law (49	App U.S.	end C. §	ix B 3447	3, an 701).	d AC Failu	43.9- re to	1 (or si report	ubseq can re	quent revision thereof) for esult in a civil penalty for
Nationality and Registration Mark US N13839								1 -	erial 44	No 80).			-			
1. Aircraft	IVI	ake oer								ode 423	l -250	0		•		Seri	ies
Name (As shown on registration certification Deaton, John G.						cate))						Shown Box 7		gistrat	ion ce	ertificate)
2. Owner								Ci	1	1	Peta	luma				State CA	
									Zi	þ		949	55		_Countr	y <u>USA</u>	3
						3.	For	FAA Us	e On	ly							
											-	•					
4. T	4. Type 5. Unit Identification																
Repair	Alteration	n	Unit		!	Mak	(e			Model					Serial No.		
	AIRFRAME —				——— (As described in			ed in	Item	1 above	e)						
		POWERPLANT															
		PRC	PELLE	ER				, ,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,									
		Type APPLIANCE Manufacturer			•												
6. Conformity Statement																	
A. Agency'	s Name ar	nd Addre	ess					ind of Ag						······································		·	
Name <u>Tim</u>				Calibro	Avionics	1		U.S. Certi	ficated	Me	char	nic					Manufacturer
Address 561								Foreign C	ertifica	ited	Mec	chanic				C. C	Certificate No.
City <u>Peta</u> Zip 949	aluma 54	Coun	ntry USA	State <u>C</u> 4	Α	- -		Certificate	 -							V 94F	R452Y
								Certificate									
have b	een made	in acco	rdance	with the		s of	Part 4	43 of the									rse or attachments hereto hat the information
Extended range fuel per 14 CFR Part 43 App. B Signature/Date of Authorized Individual Per 14 CFR Part 43 App. B																	
:					7. Ap	pro	val f	or Retu	rn To	Se	rvie	ce					
	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																
1 1 1	A Flt. Star spector	ndards		Manufac				intenanc	e Org				Depart	Persons Approved by Canadian Department of Transport			
	A Designo	ее		Repair S	Station	Х	Ins	pection /	utho	rizat	tion			Oth	er (Spe	ecify)	
Certificate of Designation		٦	1	Signatur	re/Date of Au	thori	ized I	Individua					Λ.	······	10	•	2010

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.) 17 Aug 2010 US N13839 Date Nationality and Registration Mark A summary of the alteration done to the aircraft is as follows: Equipment installed: Garmin GNS 430W GPS-WAAS/Com/Nav/MFD PN 011-00433-00: Com Receiver TSO C38d Class C&E TSO C37d Class 4&6 Com Transmitter TSO C36e TSO C34e Localizer Glideslope GPS/WAAS TSO C146a TSO C40c **VOR** TSO C113 **MFD** TSO C146a Qtv. 2 Garmin GA35 Antennas PN 013-00235-00 TSO C40c, C36e, C34e Garmin GI106A p/n 013-00049-01 Garmin GNS 530W GPS-WAAS/Com/Nav/MFD PN 011-01065+00: TSO C38d Class C&E Com Transmitter TSO C37d Class 4&6 Com Receiver TSO C36e Glideslope TSO C34e Localizer TSO C40c **GPS/WAAS** TSO C146a VOR TSO C113 **MFD PMA** Garmin GDL 69A **PMA** Garmin GA 55 Attached documentation: GNS430W and GNS530W installed I.A.W. 400W/500W Series STC SA01933LA -D and Approved Model List GDL 69/69A installed I.A.W.STC SA 01487SE-D and Approved Model List GA 35 installed I.A.W. STC SA01695SE and Approved Model List See attached manufacturer's letters -Permission to use STC for Garmin 400W/500W Series GPS-WAAS Navigation System Permission to use STC for Garmin GDL 69A. Permission to use STC for Garmin Aviation Antennas. Equipment interfaced to: Avionics buss using Klixon MS 26574-X PN 7274-2--X circuit breakers throughout. All breaker amperage ratings are as specified in appropriate installation manuals for 14 VDC supply voltage. GNS 530W interfaced to: Existing Bendix/King KI 525A HSI Existing Garmin 340 Audio Panel for Audio functions. An existing S-TEC 55X Autopilot via Nav1 source switch and associated switching relay I.A.W. 500W Series Installation Manual Page H-42 Fig. H-27. The Garmin 430W is connected to the S-TEC 55X as Nav2 source. An existing KI229 RMI via Nav1 source select switch I.A.W. 500W Series Installation Manual Page H-34 Fig. H-20. The Garmin 430W is connected to the KI229 as Nav2 source. GNS 430W interfaced to: S-TEC 55X, KI 229, as described above. Garmin GI106A for CDI information I.A.W. 400W Series Installation Manual Page H-14 Fig. H-7. Existing Garmin 340 Audio Panel for Audio functions. The 430W and 530W were both interfaced to GA 35 antennas installed at FS 88.4 to right and left of center line utilizing doublers I.A.W. STC Antenna Installation Manual and AC 43.13-2B. GNS 430W and GNS 530W installed in the center radio stack at FS 62. The 430W and 530W meet the requirement of TSO 146a annunciations field of view as outlined in Garmin 400W Series Installation Manual Section 2.5.1.1, 2.5.1.2.

Additional Sheets Are Attached

1	N	0	T		E
1	ıv	v	1 1	•	L

8. Description of Work Accomplished (If more space is required, attach additional sheets. Identify with aircraft nationality and	registration mark and date work complete	ed.)	
[US N13839	[17 Aug. 2010
L	Nationality and Registration Mark	l	Date
The GDL 69A was installed at FS 23 in the nose on an original e The GDL 69A was installed I.A.W. Installation Manual listed belo information and the Garmin GMA 340 Audio Panel for music. The GDL 69A GA55 antenna was installed utilizing a doubler I.A 2B.	w and interfaced to the GNS		
Radios in the stack were strapped together and the straps secure glare shield. Compass swing performed. Electrical load analysis performed and the equipment in the airple the total available supply current.			
Applicable alteration documentation: 400W Series Installation Manual No. 190-00356-02 Rev. G Dec. 500W Series Installation Manual No. 190-00357-02 Rev. G Dec. GDL 69/69A Installation Manual No. 190-00355-02 Rev. J Jun 20 STC Antenna Installation Manual PN 190-00569-00 Rev. E Nov. Garmin GI106A Installation Manual PN 190-00180-00 Rev C Apr	2008 009 2006		
Radio Strapping - AC 43.13-2B Chapter 2 Section 201, 202, 203 Structural Data - AC 43.13-2B Chapter 1 Section 103, 105, 108, Antenna installation - AC 43.13-2B Chapter 3 Section 303 - 309 Weight and Balance - AC 43.13-1B Chapter 10 Section 1 Par 10 Wire is inspected to conform to AC 43.13-1B Chapter 11 Section 3 Par 11 Equipment Installation AC 43.13-1B Chapter 11 Section 3 Par 11 Electrical Load Determination AC 43.13-1B Chapter 11 Section 4 Par Wire Size AC 43.13-1B Chapter 11 Section 5 Par 11-66 through The aircraft was weighed after alterations were completed. Equipment List revised. Instructions for Continued Airworthiness prepared for installed ed Airplane Flight Manual Supplements prepared and inserted into a	109, 111, 112 -2 11-1, 2, 3 1-30 - 32 ar 11-36 11-47-51 69 quipment and inserted in airc	rafí	records.
A functional ground test and functional flight evaluation was performed Flight test accomplished on 20 606 2010. Functional Ground and Flight Evaluation in aircraft records.	ormed in accordance with AC Inserted Calibro Avionics Fo		
☐ Additional Sheets Are	e Attached		

United States of America

Department of Transportation -- Federal Abiation Administration

Supplemental Type Certificate

Number SAO 933LA-D

This certificate issued to

Garmin International, Inc. 1200 East 151st Street Olathe, KS 66062

cirtifies that the change in the type design for the following product with the limitations and conditions therefore as specified hereon meets the airworthiness requirements of Part 23* of the Federal Acciation Regulations

Original Product - Type Certificate Number ?

*See attached Approved Model List (AML)

Muke

No. SA01933LA-D for list of approved aircraft

Model:

Models and applicable airworthiness regulations.

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

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

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

Date of application: January 31, 2006

November 6, 2006

Duto reissized . July 31, 2009

Tute amended November 20, 2007

By direction of the Administrator

David Armstrong

ODA STC Unit Administrator

ODA-240087-CE

Garmin International, Inc.

(Title)

Signature)



FAA Approved Model List (AML)

STC Number SA01933LA-D

Installation of Garmin 400W / 500W Series GPS-WAAS Navigation System

FAA APPROVED

ODA ADMINISTRATOR

ODA-240087-CE
Garmin International
1200 E. 151st, Olathe KA 66062

Issued Date: November 6, 2006 Revised Date: July 31, 2009

FAA Approved Model List (AML) STC SA01933LA-D

				Master Drav	ving List	
Aircraft Make (TCDS Holder) [common name or previous make]	Aircraft Model	Type Certificate Number	TC Certification Basis	Document Number	Revision (or later FAA approved revision)	AML Revision Date
Morane Saulnier (SOCATA - Groupe Aerospatiale)	Rallye Series – 100S, Rallye 150ST, Rallye 150T, Rallye 235E, Rallye 235C, MS880B, MS885, MS894A, MS893A, MS892A-150, MS892E-150, MS893E, MS894E	7A14	CAR 3	005-C0221-00 005-C0221-01	A	11/6/2006 Original
Morane Saulnier (SOCATA - Groupe Aerospatiale)	M.S.760, M.S.760A, M.S.760B	7A3	CAR 3	005-C0221-00 005-C0221-01	A	11/6/2006 Original
Moravan (Moravan a.s.)	ZLIN Z-242L, Z-143L	A76EU	FAR 23	005-C0221-00 005-C0221-01	A	11/6/2006 Original
Moravan (Moravan National Corporation)	ZLIN 526L	A30EU	FAR 23	005-C0221-00 005-C0221-01	A	11/6/2006 Original
Navion (Sierra Hotel Aero, Inc.) [Navion]	Navion (L-17A), Navion A (L-17B, L-17C), Navion B, Navion D, Navion E, Navion F, Navion G, Navion H	A-782	CAR 3	005-C0221-00 005-C0221-01	A	11/6/2006 Original
Piaggio (Piaggio Aero Industries S.p.A)	P-180	A59EU	FAR 23	005-C0221-00 005-C0221-01	A	11/6/2006 Original
PILATUS (Pilatus Aircraft Ltd.)	PC-6, PC-6-H1, PC-6-H2, PC-6/350, PC-6/350-H1, PC-6/350-H2, PC-6/A, PC-6/A-H1, PC-6/A-H2, PC-6/B-H2, PC-6/B1-H2, PC-6/B2-H2, PC-6/B2-H4, PC-6/C-H2, PC-6/C1-H2	7A15	CAR 3	005-C0221-00 005-C0221-01	A	11/6/2006 Original
Pilatus (Pilatus Aircraft Ltd.)	PC-7	A50EU	FAR 23	005-C0221-00 005-C0221-01	A	11/6/2006 Original
PILATUS (PILATUS AIRCRAFT LTD.)	PILATUS PC-12, PILATUS PC-12/45, PILATUS PC-12/47	A78EU	FAR 23	005-C0221-00 005-C0221-01	A	11/6/2006 Original
Piper Aircraft Inc. (Piper Aircraft Inc.)	PA-23, PA-23-160, PA-23-235, PA-23-250, PA-E23-250	1A10	CAR 3	005-C0221-00 005-C0221-01	A	11/6/2006 Original
Piper Aircraft Inc. (Piper Aircraft Inc.)	PA-24, PA-24-250, PA-24-260, PA-24-400	1A15	CAR 3	005-C0221-00 005-C0221-01	A	11/6/2006 Original
Piper Aircraft Inc. (Piper Aircraft Inc.)	PA-18, PA-18S, PA-18 "105", PA-18S "105", PA-18A, PA-18 "125", PA-18S "125", PA-18AS "125", PA-18 "135", PA-18A "135", PA-18S "135", PA-18AS "135", PA-18 "150", PA-18A "150", PA-18S "150", PA-18AS "150", PA-19, PA19S	1A2	CAR 3	005-C0221-00 005-C0221-01	A	11/6/2006 Original
Piper Aircraft Inc. (Piper Aircraft Inc.)	PA-20, PA-20S, PA-20 "115", PA-20S "115", PA-20 "135", PA-20S "135"	1A4	CAR 3	005-C0221-00 005-C0221-01	A	11/6/2006 Original

Issued: November 6, 2006 Revised: July 31, 2009



August 19, 2009

Subject:

STC Permission to use STC SA01933LA-D for

Garmin Model 400W / 500W Series GPS-WAAS Navigation System

(See AML)

Consistent with Order 8110.4B and AC 21-40, Garmin International grants permission to Garmin dealers, installers, and owners of the Garmin Model 400W / 500W Series GPS-WAAS Navigation System units to use STC SA01933LA-D and the data associated with it, for the sole and express purpose of installation and approval of the installation of the Garmin Model 400W / 500W Series GPS-WAAS Navigation System, and associated interfaces to other previously approved equipment.

GARMIN AT, INC.

Emmett Griffith

Engineering Manager



October 3, 2006

RE: STC Permission to use STC SA01695SE for Garmin Antennas

Consistent with Order 8110.4B and AC 21-40, Garmin AT, Inc. grants permission to Garmin dealers, installers, and owners of the Garmin antennas listed in the STC Installation Manual (190-00569-00) to use STC SA01695SE and the data associated with it, for the sole and express purpose of installation and approval of installation of the Garmin antennas listed in the STC Installation Manual (190-00569-00).

John Macnab, General Manager

Garmin AT, Inc.

Department of Transportation—Federal Aviation Administration

Supplemental Type Certificate

Number SA01695SE

This certificate, issued to

Garmin AT, Inc. 2345 Turner Road SE Salem, OR 97302

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

Original Product — Type Certificate Number:

*See attached Approved Model List (AML)

Make:

No. SA01695SE for list of approved aircraft

Model: models and applicable airworthiness regulations.

Description of the Type Design Change. Installation of antenna models identified in the Master Data List in accordance with Garmin Supplemental Type Certificate Master Data List, P/N 005-C0373-00, Revision D, dated August 21, 2006, or later Federal Aviation Administration approved revision.

Simitations and Conditions. Compatibility of this design change with previously approved modifications must be determined by the installer. A copy of this certificate must be maintained as part of the permanent records for the modified aircraft. This STC is for physical installation only. For operational Airworthiness approval refer to data for the interfaced receiving equipment.

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

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

Date of application:

March 3, 2006

Date reissued:

Date of issuance:

August 31, 2006

Date amended:

February 15, 2007



(Ilvian) as.

Acting Manager, Seattle Aircraft
Certification Office

tilication Office.

(Title)

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

This certificate may be transferred in accordance with FAR 21.47.

FAA Approved Model List (AML) No. SA01695SE FOR INSTALLATION OF GARMIN GA ANTENNA SERIES

Aircraft Make and Model Designation	Type Certificate Number	Certification Basis	Required Approved Data & Added Model Specific Limitations*	AML Revision Date
Aermacchi S.p.A (Siai Marchetti)				
S.205-18/F, S.205-18/R, S.205-20/F, S.205-20/R S.205-22/R, S.208, S.208A	A9EU	FAR 23		
F.260, F.260B, F.260C, F.260D, F.260E, F.260F	A10EU	CAR 3		
S.211A	A86EU	FAR 23	*	
Aero Commander (Dynac Aerospace Corp)				
10, 10A, 100, 100A, 100-180	1A21	CAR 3		
Aeronautica Macchi S.p.A (Macchi)				
AL 60, AL 60-B, AL 60-F5, AL 60-C5	7A12	CAR 3		
AM-3	A19EU	FAR 23	•	
Aerostar Aircraft Corp. (Piper Aerostar)				
PA-60-600, PA-60-601 (Aerostar 601), PA-60-601P Aerostar 601P), PA-60-602P (Aerostar 602P), PA-60- 700P (Aerostar 700P)	A17WE	FAR 23		
360, 400	A11WE	FAR 23		
American Champion				
402	A3CE	CAR 3		
7GCA, 7GCB, 7KC, 7GCBA, 7GCAA, 7GCBC, 7KCAB	A-759	CAR 4a	•	
8KCAB, 8GCBC	A21CE	FAR 23	•	
Aviat (Sky International)				
A-1, A-1A, A-1B	A22NM	FAR 23	•	
S-1S, S-1T, S-2, S-2A, S-2B, S-2C, S-2S	A8SO	FAR 23		
Bellanca (Alexandria Aircraft LLC)			,	
14-13, 14-13-2, 14-13-3, 14-13-3W	A-773	CAR 4a		

Issued: August 31, 2006

FAA Approved Model List (AML) No. SA01695SE FOR INSTALLATION OF GARMIN GA ANTENNA SERIES

Aircraft Make and Model Designation	Type Certificate Number	Certification Basis	Required Approved Data & Added Model Specific Limitations*	AML Revision Date
PC-12, PC-12/45	A78EU	FAR 23		
PC-6, PC-6-H1, PC-6-H2, PC-6/350, PC-6/350-H1, PC-6/350-H2, PC-6/A, PC-6/A-H1, PC-6/A-H2, PC-6/B-H2, PC-6/B1-H2, PC-6/B2-H2, PC-6/B2-H4, PC-6/C-H2, PC-6/C1-H2	7A15	CAR 3		
PC-7	A50EU	FAR 23	•	
Piper (New Piper)				
PA-12, PA-12S	A-780	CAR 3		
PA-18, PA-18S, PA-18-105, PA-18S-105, PA-18A, PA-18-125, PA-18S-125, PA-18AS-125, PA-18-135, PA-18AS-135, PA-18AS-135, PA-18AS-135, PA-18S-150, PA-18AS-150, PA-18AS-150, PA-19, PA19S	1A2	CAR 3		
PA-20, PA-20S, PA-20-115, PA-20S-115, PA-20-135, PA-20S-135	1 A 4	CAR 3	·	
PA-22, PA-22-108, PA-22-135, PA-22S-135, PA-22- 150, PA-22S-150, PA-22-160, PA-22S-160	1A6	CAR 3		
PA-23, PA-23-160, PA-23-235, PA-23-250, PA-E23-250	1A10	CAR 3		
PA-24, PA-24-250, PA-24-260, PA-24-400	1A15	CAR 3	•	
PA-28-140, PA-28-150, PA-28-151, PA-28-160, PA-28-161, PA-28-180, PA-28-235, PA-28S-160, PA-28R-180, PA-28S-180, PA-28-181, PA-28R-200, PA-28R-201, PA-28R-201T, PA-28RT-201T, PA-28-236		CAR 3	٠	
PA-30, PA-39, PA-40	AleA	CAR 3		
PA-31, PA-31-300, PA-31-325, PA-31-350	A20SO	CAR 3		
PA-31P, PA-31T, PA-31T1, PA-31T2, PA-31T3, PA-31P-350	A8EA	CAR 3		

U.S. Department of Transportation
C 4

MAJOR REPAIR AND ALTERATION

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

J.S. Departmer		/Airf	rame	. Powerplant. P	ro	י ממ	eller. or A	opliance)	, , , , , ,	Fo	r FAA Use Only
S. Department Transportation (Airframe, Powerplant, Propeller, or Appliance)											
nstructions	IONS: Print and disposi	tion of this fo	orm. T	See Title CFR 43 his report is require	.9, ed	Pa by	art 43 Apper law (49 U.S	ndix B, and AC 43.9 S.C. 44701). Failur	9-1 (or subset to report	sequer can re	nt revision thereof) for sult in a civil penalty for
each such v		U.S.C. 4630 ity and Registra		ark				Serial No.			
1. Aircraf		-	IUOII IVIC	21 N				27-4480			
	Make Piper							Model PA-23-250			Series Aztec
	Name (A	As shown on re	gistratio	n certificate)				Address (As show	n on registrati	ion certi	ficate)
2. Owne	P Deaton	John G						Address P.O. E City Petalu Zip 94955-	ma	intry U	State CA
				3. F	or	F/	AA Use Onl	1			
4. 1	Гуре			5. U	nit	ld	lentification		****		
Repair	Alteration	Unit		Mak	e			Model			Serial No.
	x	X AIRFRAME						(As described in it	em 1 abov	е)	
		POWERPLA	NT	in the second se		:					
		PROPELLEI	₹								
		APPLIANCE		Type Manufacturer							
	<u> </u>	<u> </u>								i_	
A Agency	r's Name an	d Address		6. C	or	ITO	rmity State B. Kind of				
		C/OMangon Ain	raft Inc			х	U.S. Certifica				Manufacturer
ddress 50	1 Sky Ranch I	Or.			_		Foreign Certi	ficated Mechanic		C. C	Certificate No.
_	Petaluma State CA Certificated Repair Station AP2845176IA						845176IA				
<u> </u>	1954		JSA		-		<u> </u>	faintenance Organization			
hereto	have been	made in acc	ordand	on made to the unit be with the requirent and correct to the be	ne	ŋts	ef Part 43 o	of the U.S. Federal	scribed on Aviation Re	the revegulati	verse or attachments ons and that the
extended ran		Signa	tule/D	ale of Authdrized	nd	iviç	Jual	М	ichael Tillm	an 7/	21/2009
			-	7. Appro	ova	al f	or Return T	o Service			
				sons specified belo iation Administratio					spected in REJECTE		anner prescribed by
BY	FAA Flt. Sta Inspector	ndards	-1	/lanufacturer			Maintenan	ce Organization	Der	partmen	poved by Canadian t of Transport
	FAA Desig			pair Station	<u> </u>		111	Authorization	Other (S	Specif	у)
Certificate of	r Designation N	lo.	Şig	nature/Date of Aut	hoi	įΖέ	Individual				
AP2845176	IA		11	Water 1	\mathbf{L}_{i}	٨	1	 Michael Tillman 	7/21/2009	9	

8. Description of Work Accomplished (If more space is required, attach additional	of sheets. Identify with aircraft nationality and registration	n mark and date work completed)
(11 11010 00000 10 10401100, 4110011 4110111	a direction in the state of the	Thurk and date from completee.,
, 18 cm = 4 p	N13839	7/21/2009
	Nationality and Registration Mark	Date
installati	on of Fuel Cell Drain Kit	
Remove bladders (4 each) from aircraft.		-1
2. Removed inboard aft attach point bracket a	and drilled 3/4" hole in center of 4 rivet pattern.	
 Installed new modified bladders (4 each) in instruction manual Pn. 720P, Rev. M, dated 	original locations per Eagle Technologies Company ins d 1/25/2001 steps 1 thru 15 and FAA STC number SA01	tallation 237AT.
4. Instructions for Continued Airworthiness ad	ded to aircraft records.	
5. No change to Weight and Balance.	•	i i
*********	**************************************	****
	and the second of the second o	tana, ili kalin kalinga kanal
and Artist of the 1990 of the	gan and the second of the seco	onega i ngi kan mga kinada ki na
		e e e e e e e e e e e e e e e e e e e
•		
	7.7.0 1.1.1.1.1.1.1.1.1.1.1.1.1.1.1.1.1.1.1	
	☐ Additional Sheets Are Attached	

U.S. Department of Transportation	

MAJOR REPAIR AND ALTERATION

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

U.S. Department of Transportation Federal Aviation Administration	n on i	(Airfra	ime, Powerplan	t, Pro						FAA Use Only
nstructions	and disposi	or type all ention of this for U.S.C. 46301	m. This report is re	R 43.9, quired	Pa by	rt 43 Appen law (49 U.S	dix B, and AC 43.9- .C. 44701). Failure	1 (or subset to report o	equen an res	t revision thereof) for sult in a civil penalty for
1. Aircraí	National	ity and Registrat			-		Serial No. 27-4480			
	Make Piper					1	Model PA23-250			Series Aztec
2. Owne	` ('	Name (As shown on registration certificate) John G Deaton					Address (As shown Address P.O. Box City Petaluma Zip 94955	ntry <u>U</u>	State CA	
		***	· · · · · · · · · · · · · · · · · · ·	3. For	FA	A Use Only				
										* *
4.	Туре	T		5. Unit	t Id	entification				
Repair	Alteration	Unit		Make			Model			Serial No.
	x	AIRFRAME.					(As described in it	em 1 abov	θ)	
		POWERPLAN	! T							
		PROPELLER								
		APPLIANCE	Type Manufacturer							
	1	<u> </u>		6. Coi	nfo	rmity State	ment			
A. Agend	y's Name ar	nd Address				B. Kind of				
-		C/O Mangon Air	craft Inc.		X	U.S. Certifica	ted Mechanic			Manufacturer
_	501 Sky Ranch	Dr.	Chata CA			<u> </u>	ficated Mechanic			Certificate No.
_	Petaluma 94954	Country U	State CA SA		┝	 	Repair Station Maintenance Organization		2845176	
heret	o have been	made in acco hed herein is	rdance with the require and correct to	ne bes	ents t of	lentified in it s of Part 43 my knowled	em 5 above and dea of the U.S. Federal	scribed on	the re	everse or attachments ions and that the
Extended ra 14 CFR Part	nge fuel per : 43 App. B	Signa	ure/Date of Author	11	-			ichael Tillm	an 5/	/26/2009
		· · ·				or Return				
Pur the	Administrato	or of the Feder	n persons specified al Aviation Adminis	below.	, th	e unit identif d is 📝 APP	ied in item 5 was in ROVED	REJECTE	D	nanner prescribed by
BY	FAA Fit. St Inspector	andards	Manufacturer			Maintenar	ce Organization	De	son Ap partmer Specify)	poved by Canadian nt of Transport
	FAA Desi	<u> </u>	Repair Station		X	1 1 1	Authorization	Other (S	, poury)	
	or Designation	No.	Signature/Date o	Auth	Sriz	ed Individua			•	
2845176			Munto	+_//	ıΛ	1-	Michael Tillman	5/26/200	y	All the second sections are second to the second sections are second sections.

8. Description of Work Accomplished	· ·	
(If more space is required, attach addition	aal sheets. Identify with aircraft nationality and registration	mark and date work completed.)
	N13839	5/26/2009
•	Nationality and Registration Mark	Date
INSTALLATIO	ON OF ALTERNATOR CONTROL UNITS	
•		
Removed voltage regulators, filters, and c	over-voltage relays for main and auxilary systems.	
-	I Units per FAA/STC number SA8431SW and Zeftronics in	etallation instructions stans 1
thru 6 for Dwg. No. ZOOPEC. Rev. A1, date	d 01/2004.	staliation instructions steps 1
3. Installed new OEM noise filters in original	locations.	
4. No change to weight and balance.		
*************	**************************************	*****
	No mino i ozzono	•
. · ·		
		•
	•	
•		
	·	
		•
	And the second s	·
8	•	•
	, , ,	•
	·	
	Additional Sheets Are Attached	

U.S. Department of Transportation	

MAJOR REPAIR AND ALTERATION

Form Approved DMB No.2120-0020	Electronic	Tracking	Numbe

U.S. Departmer of Transportatio	on	(Ai	irframe	e, Powerplar	nt, Pr	ope	ell	ler, or Ap	ppliance)	ŀ						
Federal Aviation Administration																
instructions		ition of this	is form. 1	This report is re					ndix B, and AC 43.6.C. 44701). Failur							
1. Aircraf	National	lity and Reg						LATE.	Serial No. 27-4480							
	Make Piper								Model PA-23-250				1	Series Azteo		
2. Owne	3 P 1	Name (As shown on registration certificate) Deaton John G					Address (As shown on registration of Address P.O. Box 7007 City Petaluma Zip 94955-7007 Country					Country	St	tate	CA	
					3. Fo	r F/	AA	A Use Only								H .
4.	Туре				5. Uni	it ld	ler —	ntification		_						
Repair	Alteration	Unit	.t		Make		_		Model	ا —			<u> </u>		Serial	No.
	X	AIRFRAI	ME			-	_	_	(As described in	ite	m 1 i	above)				
	9	POWER	PLANT													
		PROPEL	LER	ě ·.				-7.								
		APPLIAN		Type Manufacturer									<u>, </u>			
	<u> </u>	<u></u>				onformity Statement						<u> </u>				
A. Agenc	y's Name an	nd Addres			6. CG	hio		B. Kind of								
	/ichael Tillman			IC.		_ X	1		ited Mechanic	_			\Box	Manu	facturer	
Address <u>5</u>	01 Sky Ranch I	Dr.					F	Foreign Certif	ficated Mechanic			С	Cer	tifica	te No.	
	Petaluma			State <u>CA</u>			ŀ	Certificated R	Repair Station			A	AP2845176IA			
Zip <u>9</u> -	4954	Country	USA				I	Certificated M	faintenance Organizat	tior	<u> </u>					
hereto inform	have been nation furnish	made in a ned herein	accordan n is true a	nce with the required to the contract to the c	quireme the bes	ents	s o	of Part 43 o	m 5 above and de f,the U.S. Federal ge.	esc I A	ribed viatio	d on the on Regul	rever	rse or s and	r attach I that th	iments ie
Extended ran 14 CFR Part	ge fuel per 43 App. B	Sig	jnature/L	Date of Authori		<u>حا</u>	<u> </u>	JW		⁄lic'	hael '	Tillman				
,	·		<u>,, ·</u>					r Rěturn T		_						
	Administrator	r of the Fe		rsons specified viation Adminis					ied in item 5 was ir ROVED	nsj		ECTED	•		-	
ву	FAA Fit. Sta Inspector	indards	·. !	Manufacturer [Ī		Ľ	Maintenan	ce Organization			Departn	ment of		Canadia sport	in
	FAA Desig			pair Station		X			Authorization	C	Other	(Speci	ify)			
Certificate o	or Designation I	No.	Siç	gnature/Date o	f Author	orize	ed.	Individua								

Michael Tillman 4/2009

AP2845176IA

	N13839		4/8/2009
· ·· · · · · · · · · · · · · · · · · ·	Nationality and Registration Mark		Date
 INSTALLATION OF	FOILAMATIC PREOILER SYSTEM		
nstalled oilamatic Preoiler System on e	ngine left Pn. 2100A, Sn. 0503017 a	nd engine right Pn. 2100/	A, Sn. 0503018 per STC
mber SA00448DE and Oilamatic Preoile	er Installation Instructions with drawii stem limitations.	ng list # PA23400 issued	2/14/2001, pages 1 through 6.
nstalled aircraft supplement into POH. ircraft weight and balance revised and	added to aircraft records.		
*****	****************** NOTHING FOLLOW	/Q ***********	杂菜杂类杂类
	IAO I MING POLLOVA		
•		2 ¹⁰ s	es de la companya de
		.*	
			AND THE RESERVE OF THE PROPERTY OF THE PROPERT
•			
* * * * * * * * * * * * * * * * * * *		•	
and the state of t			

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

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

ronic Tracking	Numbe
	ronic Tracking

For FAA Use Only

Administration

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
N13839

Nationality and Registration Mark
N13839

eacn such		U.S.C. 4630									
1. Aircra		lity and Registra 9	tion Mark				Serial N 27-448				
	Make Piper					,	Model PA-23-	250			Series Aztec
2. Owne	AP 1 '	As shown on reg	istration certificate)					(As show	vn on registr	ation ce	rtificate)
							City	Petalur 94955	na		State CA
					_		Zip	94900	7007 CC	ountry	USA
		····	····	3. For	FF	AA Use Oni	y				
<u> </u>	Туре	Υ		£ linit	4 I.d	entification					
	·				t Iu	enuncation	·			- 1	
Repair	Alteration	Unit		Make				Mode			Serial No.
							(As doss	ribad in	item 1 abo	,,,,,	_
L] 		AIRFRAME					(AS GOSG	ivea iii	nem rabo	100	
								· · · · · · · · ·			<u>-</u>
		POWERPLA	vit				:				
		<u> </u>								- 1	
1		PROPELLER				,				- 1	
			Туре				·				_
		APPLIANCE	1,7,000							-	
			Manufacturer								
				6. Con	ıfo	rmity State	ment				
A. Agenc	y's Name an	d Address		0. 00.		B. Kind of					<u> </u>
Name N	lichael Tillman	C/OMangon Airc	raft Inc.		х	U.S. Certifica	ted Mechanic	C			Manufacturer
_	01 Sky Ranch	Dr.				Foreign Certi	ficated Mech	anic		C.	Certificate No.
	etaluma	 	State CA		L	Certificated F	tepair Station)		AP2	2845176IA
Zip <u>9</u>	4954	CountryU	SA			Certificated N	faintenance (Organiza	ion		
D. I certif	fy that the re	pair and/or all	teration made to the	e unit(s	\jd	entified in ite	m 5 aboye	and de	scribed or	the re	everse or attachments
			rdance with the req rue and correct to t					Federal	Aviation F	Regula	tions and that the
Extended rar		Signat	ure/Date of Authori	zed Ind	ii	iual /	1				
14 CFR Part	43 App. B			<u> </u>		els-	JWF	- N	lichael Tilln	nan	-
D	uant to the	u dharit				or Return T		E ·		_ 44	
the /	Administrato	r of the Feder	n persons specified al Aviation Adminis	tration a	tne anc	is 📝 APP	ROVED	o was II]	REJECT	ED	nanner prescribed by
ву	FAA Fit. Sta Inspector	ndards	Manufacturer	6		Maintenan	ce Organiz	ation			poved by Canadian nt of Transport
	FAA Desig	nee	Repair Station		x	Inspection	Authorizat	ion	Other (Specify)
Certificate of	r Designation	No.	Signature/Date of	_ L L	1	1 / 1			I		
AP2845176	SIA		l X	Jul	سے	J (M)	Michae	l Tillmar	` <i>4/2</i> 009		

	, ,·	4/8/2009
10.54	Nationality and Registration Mark	LDate
INSTALLATION OF TE	RIM TAB ON LEFT AILERON	
	1: F 4 070 N 1 0440400	
stalled trim tab, actuator, wiring hame s 1 though 23. Ieron removed and a balance check p	ss and indicator per STC Number SA1044SO and per	Aero-Trim Installation Instructions
serted POH supplement into flight ma	nual.	
****	*************** NOTHING FOLLOWS ************************************	*********
• •		
	view in the second	
•		
		e Chen a e e
		, , , , , , , , , , , , , , , , , , ,
	$rac{a}{2\pi i} = rac{a}{C}$	
. ,		
	· · · · · · · · · · · · · · · · · · ·	
The second section of the second section is a second section of the second section section is a second section of the second section s		
 Magnetic Complete Company An Appendic An Appendic 	 And The Control of the	and the second s

u.s.	Der	аг	tme	31

OMB No.2120-0020	Electronic	Tracking	N
11/30/2007	 	<u>.</u>	4
FOTI	AA Use Only		1

MAJOR REPAIR AND ALTERATION (Airframe, Powerplant, Propeller, or Appliance) of Transportation Federal Aviation Administration 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. 1. Aircraft 27-4480 N13839 Make Series Piper PA-23-250 Address (As shown on registration certificate) Name (As shown on registration certificate) 2. Owner Deaton John G Address P.O. Box 7007 Petaluma State CA City 94955-7007 Country USA Zip 3. For FAA Use Only 5. Unit Identification 4. Type Serial No. Make Model Repair Alteration Unit (As described in item 1 above) **AIRFRAME** Lycoming TIO-540-C1A L-1532-61 X **POWERPLANT PROPELLER** Type **APPLIANCE** Manufacturer 6. Conformity Statement B. Kind of Agency A. Agency's Name and Address Michael Tillman C/O Mangon Aircraft Inc. U.S. Certificated Mechanic Manufacturer Address 501 Sky Ranch Dr. C. Certificate No. Foreign Certificated Mechanic City State CA Petaluma **Certificated Repair Station** AP2845176IA Zip 94954 Country USA Certificated Maintenance Organization D. I certify that the repair and/or alteration made to the unit(\$) 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 Michael Tillman 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 AM APPROVED REJECTED FAA Fit. Standards Person Appoved by Canadian Manufacturer Maintenance Organization Inspector Department of Transport BY (Specify) Other Inspection Authorization **FAA Designee** Repair Station X Certificate or Designation No. Signature/Date of Authorized Individual Michael Tillman 4/2009 AP2845176IA

8. Description of Work Accomp		the second of the second secon	اليان المعادلة المعاد
(If more space is required, atta	ch additional sheets. Identify with aircraft natio	onality and registration mark and date	work completed.)
* · · · · · · · · · · · · · · · · · · ·	way and the same of the same o		
3	N13839	4/8/2009	17 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
	Nationality and Registration Mark	L Date	
•	reading and registration main	55.0	
		•	
INSTAL	LATION OF turboGAMIjector NOZZLES		
1.Removed 6 each Textron Lycon	ning fuel nozzles Pn. LW18854.		
2. Installed General Aviation Modi	fications Inc. turboGAMIjector nozzle kit # GLT edure # IP-98-002, Rev. D, dated 8/11/1998.	F20, Sn. 18566 per STC Number SE0	9445SC and per
No change to weight and balant			
****	**************************************	\$ ********	
		•	
,		and the state of t	
• •			• • • • • • • •
		W. C.	
,			
	·		• • •
,	· · · · · · · · · · · · · · · · · · ·	i i	
		••	•
		•	• •
	Additional Sheets Are Attac	:nea	

U.S. De	pa	art	ment

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

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

Electronic Tracking N

For FAA Use Only

Federal Aviation				•	<u>-</u>							
INSTRUCT instructions each such v	and dispos	ition of this	form.	This report is required), Pa	art 43 Apper law (49 U.S	ndix B, and AC 43.9 S.C. 44701). Failur	-1 (or sub: e to report	sequer can re	nt revision thereof) for sult in a civil penalty for		
1. Aircraf		ility and Regis	stration M	lark			Serial No. 27-4480					
	Make Piper	,					Model PA-23-250			Series		
2. Owne	<i>a</i> 1	As shown on n John G	registrati	on certificate)			Address (As show Address P.O. E	•	ion certif	ficate)		
							City Petalu Zip 94955-	_	intry U	State CA SA		
				3. Fo	r F/	AA Use Onl	<i>y</i>					
4. 1	ype			5. Uni	it Id	entification						
Repair	Alteration	Unit		Make			Model			Serial No.		
		AIRFRAM	E				(As described in it	em 1 abov	е)			
	х	POWERP	LANT	Lycoming			TIO-540-C1A			L-1533-61		
		PROPELL	ER.									
		APPLIANO	CE	Type Manufacturer								
				6. Co	nfo	rmity State						
	r's Name ar ichael Tillman		Aires tr		_	B. Kind of	 _		· I			
	1 Sky Ranch		nii Gait ii	10.	×	 	ted Mechanic		<u> </u>	Manufacturer Certificate No.		
	etaluma			State CA	\vdash	 	ficated Mechanic Repair Station			845176IA		
Zip 94	1954	Country	USA		-	<u> </u>	Maintenance Organization	045170IA				
hereto informa	have been ation fumist	made in ac ned herein i	cordan	ce with the requirement and correct to the bes	ents t of	entified in its of Part 43 of my knowled	em 5 above and de of the U.S. Federal	scribed on	the revegulation	verse or attachments ons and that the		
Extended rang 14 CFR Part 4		Sigr	nature/[Date of Authorized Inc		<u> K</u>		chael Tillm	an			
						or Return T						
	dministrato	r of the Fed		sons specified below viation Administration				REJECTE	D			
ву	FAA Fit. Sta Inspector	endards		Manufacturer		Maintenan	ce Organization	Dep	partment	poved by Canadian t of Transport		
0-45	FAA Desi			·	X		Authorization	Other (Specify	y,		
Certificate of	Designation	NO.	Sig	gnature/Date of Author	onize /	ed individual	X Mark Till	410000				

8. Description of Work Accomplished			
(If more space is required, attach addition	nal sheets. Identify with aircraft na	tionality and registration m	ark and date work completed.)
	N13839		4/8/2009
	Nationality and Registration Mark		Date
	÷ ·	· .	,
INOTAL ATION OF A	+ - O A A A III 4 A I O 771 FO		
INSTALLATION OF TUR	boGAMIjector NOZZLES		
1. Removed 6 each Textron Lycoming fuel	nozzles Pn. LW18854.		,
2. Installed General Aviation Modifications I	nc. turboGAMljector nozzle kit # Gl	LT 20, Sn. 18565 per STC	Number SE09445SC and per
turboGAMIjector Installation Procedure # IP 3. No change to weight and balance.	2-98-002, Rev. D, dated 8/11/1998.		
	**************************************	15	
	•		
		•	
			,
	•		
			••
· ·	T.		
	i,		
			•
-c. B	1		
-			
	· ·		
	٠.		
	The second secon		
	Additional Sheets Are Atta	ached	



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 (49.11.5.C. 1421). Failure to report can result in a civil penalty.

exceed \$1,0	000 for ea	ach such vi	olatio	n (Section 901	Federal /	Aviat	y 1a tion	Act of 1958). 1421 3).	. ranun	e m ieboit c	an Iesi	uit iii a Civii pi	erially Hot lo	
1. Aircraf	M	Make Piper							Model PA23-250 - 6PCLM						
•	s	erial No. 27-4480			Nationality and Registration Mark N13839										
2. Owner	N	Name (As shown on registration certificate) John G Deaton							Address (As shown on registration certificate) P. O. Box 7007 Petaluma, CA 94955.						
					3.	For	FA	A Use Only	,						
				4. Uni	t Identifi	icati	on						5. T	ype	
Unit			Make	•			M	odel		8	Serial No.		Repair	Alteration	
AIRFRAME		(As described						em 1 above))					·.	
POWERPLA	ANT	Lycoming					IO-540-C1A L-1532-61					х			
PROPELLE	R														
APPLIANCE		Type Manufacturer									-				
					6. Ce	onfo	rm	ity Stateme	nt				- W	1	
A. Agency	y's Name	and Addres				T		3. Kind of Ag				C. C	ertificate No.		
Walter Man						х	U	U.S. Certificated Mechanic 157			1570	570369			
Petaluma N 501 Sky Ra							Foreign Certificated Mechanic								
Petaluma,						\perp	Certificated Repair Station								
							ᆣ	lanufacturer				L			
hereto	have bee	n made in	acco	eration made to rdance with the rue and correct t	requirem	ents	s of	Part 43 of the	he U.S	ve and de . Federal	escribed on Aviation Re	the rev egulation	erse or attac ons and that t	hments he	
Date 10/05/06		. ,		And the second s		<u> </u>	$\underline{\mathcal{V}}$	of Authoriz	V/0	rigo	n)		Wa	lter Mangon	
								Return To		//					
Pursi the A	uant to the Idministra	e authority tor of the F	givei eder	n persons specifical Aviation Admi	ied belov inistratio	w, th n an	e u d is	Init identified APPRO	in iter VED	to⊈wasi l	REJECTE	D	anner prescr	ibed by	
ву	FAA Fit. S Inspector	landards		Manufacturer		X	_	Inspection A			Other (S)	oecify)			
	FAA De	signee		Repair Station				Person Appove Çanada Airwor							
Date of App	oroval or F	Rejection		Certificate or Des	ignation N	lo.		Signature	of Auth	norized In		7			
10/05/06 FAA Form 3	337 (12-	88)			1570369		_	TV	all	wy	one		Wa	lter Mangon	

8. Description of Work Accomplished (If more space is required, attach additional sheets.	. Identify with aircraft nationality and registration mark and date work completed.)
N13839	10/05/06
Installation of Avation Development Engine Ext	ernal Oil Filter.
1. Piper PA23-250 -6PCLM Aztec Sn: 27-4440	
2. Engine TIO-540-C1A, Sn. L-1532-61. (AML listed)	•
3. Installed STC SE5743NM Adapter for externally mo	ounted oil filter. (
4. Installation in accordance with Aviation Developme	ent Corporation Drawing List DL003, Dater May 8, 1992.
**********	· NOTINIA PALLAMA ·································
•••	* NOTHING FOLLOWS ************************************
	Survey of the state of the stat
· ·	
	Additional Shoots Are Attatched

United States of America

Repartment of Oranaportation—Rederal Aviation Administration

Supplemental Type Certificate

Number SE5743NM

Aviation Development Corporation This certificate, issued to

certifies that the change in the type design for the following produc	ot with the limitations and conditions therefor
as specified hereon meets the airworthiness requirements of Part	13 of the Eivil Air Plegulations.

Original Product-Type Certificate Number:

See attached FAA Approved Model List (AML)

.. Hodel ...

No. SE5743NM for list of approved airplane models

and applicable airworthiness regulations.

Description of the Type Design Change. Installation of admiter for externally mounted oil filter in accordance with Aviation Development Corporation Drawing List, DL 003, dated May 8, 1992, or later FAA approved revisions.

Aircraft Model

Registration No.

Series No. Limitations and Conditions. Approval of this change in type design applies to the models of engines only. This approval should not be extended to other engines of these models on which other previously approved modifications are incorporated unless it is determined that the relationship between this change and any of those other previously approved modifications, including changes in type design, will introduce no adverse effect upon the airworthiness of that engine. A copy of this Certificate dated July 18, 1992, must be maintained as part of the permanent records for the modified aircraft.

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

Date of application.

Date of issuance

April 29, 1992

July 20, 1992

Dals reissusd.

Date amended.

Acting Manager, Seattle Aircraft Certification Office

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

This certificate may be transferred in accordance with FAR 21.47.

APPROVED MODEL LIST (AML) NUMBER SE5743NM FOR ENGINE ADAPTER FOR EXTERNALLY MOUNTED ENGINE OIL FILTER

ITEM ENGINE MAKE		ENGINE MODEL	TYPE CERTIFICATE NUMBER	CERTIFICATION BASIS FOR	FAA SE DRAWIN	NG LIST	AFM SUPPLEMENT NO. AND DATE	AML REVISION DATE	
				ALTERATION	NUMBER	REV	N/A	I/R 7/20/92	
	G. 45	O-200/C-90	E-252	CAR 13	700116	I/R	N/A	J/R 7/20/92	
	Continental	O-300/C-145	E-253	CAR 13	700115	I/R		1/R 7/20/92	
2	Continental	O-470	E-269/E273	CAR 13	700111	Rev 2	N/A	I/R 7/20/92	
3	Continental	The second secon	E-1CE	CAR 13	700110,	I/R	N/A	. UK 1120132	
4	Continental	IO-360	1	•	700115	I/R		100 700/02	
5	Continental	IO-520	E-5CE	CAR 13	700110 or 700111	I/R	N/A	I/R 7/20/92	
					700112	Rev 2	N/A	VR 7/20/92	
	Continental	E-165, E-185	E-246	CAR 13	700113		N/A	I/R 7/20/92	
6 :		E-225	E-267	CAR 13	700113	I/R	N/A	VR 7/20/92	
7	Continental	TSIO-360	E9CE	FAR 33	700110,	I/R	IVA.	2.00	
8	Continental	1310-300			700115	I/R	32/4	I/R 7/20/92	
		O-235	E-223 ,	CAR 13	700112	I/R	N/A	6/22/93	
9	Lycoming		E-274	CAR 13	700110 or	I/R	N/A	012473	
10	Lycoming	O-320	E-214	<u> </u>	700117	Rev 20			
11	Lycoming	O-360	E-286	CAR 13	700110 or 700117	I/R	N/A	6/22/93	
**				•		Rev 20	N/A	6/22/93	
	Lycoming	O-540	E-295	CAR 13	700110 or	I/R	N/A	0124275	
12	Lycoming				700117	Rev 20			





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

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

instructions	and disposition of t 00 for each such v	his fo	rm. This report	is req	uired b	y law (49 U.S.0	C. 1421							
1. Aircraft	Make	1							Model PA23-250 - 6PCLM					
	Serial No. 27-4480	Serial No. 27-4480						Nationality and Registration Mark N13839						
2. Owner	Name (As sh John G D		registration certific	ate)			Address (As shown on registration certificate) P. O. Box 7007 Petaluma, CA 94955.							
					3. For	FAA Use Only	у							
			4. Un	it Iden	tificat	ion					5. T	уре		
Unit		Mak	9			Model		s	erial No.		Repair	Alteration		
AIRFRAME		(As described in item 1 above)												
POWERPLAI	1	Lycoming TIO-540-C1					L-1533-61					х		
PROPELLER														
APPLIANCE	Type Manufacturer				***************************************									
				6.	Confo	ormity Stateme	ent							
A. Agency'	s Name and Addre	SS				B. Kind of A				C. C	ertificate No.			
Walter Mang			W		X	X U.S. Certificated Mechanic			1570369					
Petaluma M 501 Sky Rai	unicipal Airport nch Drive					Foreign Certific								
	A 94954-3908				⊢	Certificated Re	pair Stati	on						
hereto h	that the repair and lave been made in ion furnished here	ассо	rdance with the	require	ement	dentified in items s of Part 43 of t	the U.S							
Date 10/05/06					Signa	ture of Authori		ividual	lange	n	Wa	ılter Mangon		
	,		7	7. App	proval	for Return To	Servic	e	-/)	_				
Pursu the Ad	ant to the authority Iministrator of the	give: Feder	n persons speci ral Aviation Adm	fied be	low, the	ne unit identifie nd is 🕢 APPRO		n 4 was ir	REJECTE	D	anner prescr	ibed by		
	FAA Fit. Standards Inspector		Manufacturer		х	Inspecti			Other (S	pecify)				
	FAA Designee		Repair Station	١		Person Appuv Canada Airwo								
Date of App	oval or Rejection		Certificate or Des	signation	n No.	Signature	of Aut	norized In						
10/05/06 FAA Form 3	37 (12-88)			15703	69	/ / / (an	- / (anso	\mathcal{N}	Wa	ilter Mangon		

B. Description of Work Accomplished (If more space is required, attach additional sheets. Identify with aircraft nationality and registration mark and date work completed.)
N13839 10/05/06
Installation of Avation Development Engine External Oil Filter .
1. Piper PA23-250 -6PCLM Aztec Sn: 27-4440
2. Engine TIO-540-C1A, Sn. L-1533-61. (AML listed)
3. Installed STC SE5743NM Adapter for externally mounted oil filter.
4. Installation in accordance with Aviation Development Corporation Drawing List DL003, Dater May 8, 1992.

Additional Sheets Are Attatched

United States of America

Reportment of Transportation—Wederal Aviation Administration

Supplemental Type Certificate

Number SE5743NM

This certificate, issued to Aviation Development Corporation

certifies that the change in the type design for the following product with the limitations and conditions therefor as specified hereon meets the airworthiness requirements of Part 13 of the Civil Air Regulations.

Original Product-Type Certificate Number:

See attached FAA Approved Model List (AML)

Make

No. SE5743NM for list of approved airplane models

Model

and applicable airworthiness regulations.

Description of the Type Design Change. Installation of adapter for externally mounted oil filter in accordance with Aviation Development Composition Drawing List, DL 003, dated May 8, 1992, or later FAA approved revisions.

Aircraft Model

Ameristration No.

Serie No.

Limitations and Conditions. Approval of this change in type design applies to the models of engines only. This approval should not be extended to other engines of these models on which other previously approved modifications are incorporated unless it is determined that the relationship between this change and any of those other previously approved modifications, including changes in type design, will introduce no adverse effect upon the airworthiness of that engine. A copy of this Certificate dated July 18, 1992, must be maintained as part of the permanent records for the modified aircraft.

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

Date of application.

April 29, 1992

Dato reissued:

Date ofissuarce.

July 20, 1992

Date amended.

Bu direction of the

(Signature)

Acting Manager, Seattle Aircraft Certification Office

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

This certificate may be transferred in accordance with FAR 21.47.

APPROVED MODEL LIST (AML) NUMBER SE5743NM FOR ENGINE ADAPTER FOR EXTERNALLY MOUNTED ENGINE OIL FILTER

ITEM	ENGINE	ENGINE	TYPE	CERTIFICATION	FAA S	EALED	AFM	AMIL
LIEIVI	MAKE	MODEL	CERTIFICATE	BASIS	DRAWI	NG LIST	SUPPLEMENT	REVISION
	14M 2727	;	NUMBER	FOR	<u> </u>		NO. AND DATE	DATE
			,	ALTERATION	NUMBER	REV		
-	Continental	O-200/C-90	E-252	CAR 13	700116	I/R	N/A	I/R 7/20/92
2	Continental	O-300/C-145	E-253	CAR 13	700115	I/R	N/A	I/R 7/20/92
3	Continental	O-470	E-269/E273	CAR 13	700111	Rev 2	N/A	1/R 7/20/92
4	Continental	IO-360	E-1CE	CAR 13	700110, 700115	I/R I/R	N/A	I/R 7/20/92
5	Continental	IO-520	E-5CE	CAR 13	700110 or 700111	I/R	N/A	I/R 7/20/92
						Rev 2	57//	100 500 000
6	Continental	E-165, E-185	E-246	CAR 13	700113	I/R	N/A	I/R 7/20/92
7	Continental	E-225	E-267	CAR 13	700113	I/R	N/A	I/R 7/20/92
8	Continental	TSIO-360	E9CE	FAR 33	700110, 700115	I/R I/R	N/A	I/R 7/20/92
9	Lycoming	O-235	E-223 ,	CAR 13	700112	I/R	N/A	I/R 7/20/92
10	Lycoming	O-320	E-274	CAR 13	700110 or 700117	I/R	N/A	6/22/93
. 1						Rev 20		
11	Lycoming	O-360	E-286	CAR 13	700110 or 700117	I/R	N/A	6/22/93
1				•		Rev 20	·	<u> </u>
12	Lycoming	O-540	E-295	CAR 13	700110 or 700117	I/R	N/A	6/22/93
						Rev 20		



U.S. Departmen

of Transportation
Federal Aviation
Administration

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

Form Approved OMB No.2120-0020

For FAA Use Only

Office Identification

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

exceed	\$1,000		lation (Section 901	Federal Av	viat	ion Act of 1958						
1. Air	rcraft	Make Piper				Model PA23-250 - 6PCLM						
			·····									
		Serial No. 27-4480				Nationality and Registration Mark N13839						
2. 0	wner		n on registration certific	cate)		Address (As shown on registration certificate)						
		John G Dea	ton					. O. Box 70 etaluma, C/				
								-,				
				1.		FAA Use Only						
Tł tł	ne data id ne above	entified herein con described aircraft,	nplies with all the ap subject to comform	pliciable air ty inspectio	yvoi in b	rthiness require y a person auth	ments orized	and is appi I in FAR 43,	roved for section 43.	7 .	. ,	٠.
D:	ate 10/2	4/03 Sir	anature (X.1	Ź		OAK	(-FSDO, WF	27			
			<u> </u>	it Identific	atio	on .		, •••			5. T	ype
į	Jnit	N			Model		Se	erial No.		Repair	Alteration	
AIRFR	AIRFRAME(As describ					item 1 above)					X
		1		T								
POWE	RPLANT											
		<u> </u>										
PROPI	ELLER											
· · · · · · · · · · · · · · · · · · ·		Туре										
APPLIA	ANCE]								
		Manufacturer				`						
				6. Coi	nfo	rmity Stateme	ent					
A. Ag	ency's N	ame and Address	8		Ŀ	B. Kind of Agency C. Certificate No.						
	r Mangon				X	15/1					369	
501 S	ky Ranch		-	•	-	Foreign Certific						
Petalu	ıma, CA 9	4954-3908			-	Certificated Rep Manufacturer	Jan Sta	IGON				
D Io	ertify tha	t the repair and/o	r alteration made to	the unit(e	Vid.		4 ah	ove and de	scribed on t	the rev	verse or attac	hments
he	reto have	e been made in a	ccordance with the is true and correct	requireme	nts	of Part 43 of t	he U.	S. Federal	Aviation Re	gulatio	ons and that	he
Date 10/24/	·				_	ure of Authoriz	ed In	dividual	N -N)		
10124/				7. Approv	/al f	for Return To		ce	1		vva	Ilter Mangon
<u> </u>	Pursuant	to the authority g	iven persons spec	ified below	. th	e unit identifie	d in ite				anner prescr	ibed by
	FA	Fit. Standards	ederal Aviation Adn		and X	d is APPRO		rization	Other (St			
BY	1	A Designee	Repair Station			Person Appov Canada Airwo	ed by T	ransport	,			!
Date o	f Approv	al or Rejection	Certificate or De	signation No.				thorized Inc	dividual)	
10/24/0	06			1570369 <		DX.	21	tu fi	Do	/w/	V Wa	iter Mangon
FAA Fo	orm 337	(12-88)										

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

8. Description of Work Accomplished	
(If more space is required, attach additional sheets	 Identify with aircraft nationality and registration mark and date work completed.
	•
N13830	10/24/06

Conversion of Two Blade Ring Gear to Three Blade Operation.

- Piper PA23-250 -6PCLM Aztec Sn: 27-4440
- 2. Converted original propeller ring gear from two blade de-ice to capable operation for three blade de-ice operation. Wired propeller de-ice system for previously installed thre blade propeller that were installed in accordance with STC SA 441NW as follows: Orignal two blade propeller ring gear/slip ring assembly retained and wired per concept drawing from Gary Garcia, Manager Product Support, BF Goodrich Corporation, Dtd., Jun. 28, 01. Change as follows. (Made part of aircraft records.) Wiring connections for two and three blade propellers are basically the same, except three blade installation using two blade ring gear/slip ring assembly requires that two blade de-ice boot lead sets be connected to one set of studs on slip ring, reference BF Goodrich drawing for installaton of three blade propeller on Piper PA46-350P using original two blade ring gear/slip assembly.
- 3. Control and operation: No change from original two balde operation..
- 4. Servicing: No change from original two balde operation
- 5. Maintenance Instructions: No change from original two balde operation
- 6. Troubleshooting: No change from original two blade operation. Hartzell Propeller Manual.
- 7. Removal and replacement information: No change from original two balde operation.
- 8. Diagrams: See attached BF Goodrich Letter and Drawings.
- 9. Special instructions: None
- Application of protective coatings: None.
- 11. Data: Hartzell Propeller Service Manual and BF Goodrich Drawings made part of aircraft records.
- 12. List of special tools: Non appliciable.
- 13. For commuter category aircraft: Not appliciable Part 91 use.
- 14. Recommended overhaul periods: On condition
- 15. Airworthiness limitations: Aviation Development Corporation Report FM 020M, Supplement Flight Information for Aircraft Equipped with Aviation Development Corporaton Oil Filter, included to and made part of aircraft POH.
- 16. Revisions: For re See also FAA

<u>.</u> .					
**************************************	OTHING	FOLLOWS	*****	*******	****
		· · ·		•	
•.					
** ***********************************	>.				

U.S. Department

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

Form Approved OMB No.2120-0020

For FAA Use Only Office Identification

Federal Adminis	Aviation stration			• •					uP2	27 2A	•
instruc	tions and	S: Print or type all e disposition of this f for each such violat	orm. This report is	required	l by	/ law (49 U.S.C. 14	AC 43.9-1 (or : 21). Failure to	subsequ report o	uent rev can resu	ision thereof ult in a civil p) for enalty not to
1. Ai	rcraft	Make Piper				Mod					
		Serial No. 27-4480					ionality and Regis N13839	ration Ma	ark		
2. O	wner	Name (As shown of John G Deator	n registration certificate)			Address (As shown on registration certion P. O. Box 7007 Petaluma, CA 94955.				
		<u></u>		3. Fo	or l	FAA Use Only					
			4. Unit l	dentifica	atio	on				5. T	уре
	Unit	Make				Model	Seri	al No.		Repair	Alteration
AIRF	RAME	(As describe				item 1 above)——			x		
POWE	ERPLANT										
PROP	ELLER									:	
APPLI	ANCE	Type Manufacturer									
		<u></u>		6. Con	fo	rmity Statement	_ .	 			
A. Ag	ency's N	ame and Address				B. Kind of Agenc	у		C. C	ertificate No.	
Walter Mangon Petaluma Municipal Airport 501 Sky Ranch Drive Petaluma, CA 94954-3908				X	U.S. Certificated Mec Foreign Certificated M Certificated Repair St Manufacturer	/lechanic	369				
he	ereto have	the repair and/or a been made in acco furnished herein is	ordance with the re-	auiremer	nts	of Part 43 of the U	oove and descr .S. Federal Av	ibed on ation R	the reve egulation	erse or attac ons and that t	hments he
Date 10/20/	06			Sign	nati	ure of Authorized In	ndividual	2 1/2	ol). Wa	lter Mangon
			7.	Approva	al f	or Return To Serv	rice \				
1	the Admir	to the authority give histrator of the Fede	n persons specified ral Aviation Admini	d below, stration a	the	e unit identified in it is APPROVED	$\overline{}$	REJECTE	ΕD	anner prescr	bed by
BY	Insp	Fit. Standards	Manufacturer Repair Station	X	'	Inspection Author	JIIZAIIOI .	other (S	pecify)	,	
Date o		A Designee al or Rejection	Repair Station Certificate or Design	nation No.	\dashv	Canada Airworthines Signature of Au	ss Group	dual/	,	$\overline{}$	
10/20/0	06	1570369				//	alter	W/0	In	Wa Voo	lter Mangon

8. Description of Work Acco	•	Identify with aircraft nat	tionality and registrati	on mark and date	e work completed.)
N13839			10/20/06		
Installation of Two Hartze	ell (2), Three Bladed Pro	ppellers and Spinner:			
Installation of STC SA441N Meridian, OklahomaCity, C	IW, Dtd. 03/14/77, Rev. (DK 73159-1104.	07/22/88. AAR Aircraft S	Services-Oklahoma, 6	611 South	
2. Installation of of two (2) Har Piper Navajo Spinner asse No. WS-601.	rtzell Three Blade Prope embly Pn. 43940-00 in ac	ller with De Ice Boots, P ccordance with Westen \$	n. HC-E3YR-2ATF/F(Skyways Installation I	C7663-2R and nstructions	
3. Continued Airworthines sar	me as oringinal Maintena	ince Manual for PA23-25	50 aircraft/		
***	*******	NOTHING FOLLOW	'S ********	*****	
				•	,
	·				e e
			•		
	•		•	4	
					•
•	•			•	
	•				
			•	•	
					•
			•		
		i i			
		$\chi_{ij}(s,t) = t$			
		•		•	
				•	
		Additional Sheets Are Atta	tched		

United States Of America

Bepartment of Transportation - Nederal Abiation Administration

Supplemental Type Certificate

Number SA441NW

This Certificate issued to

AAR Aircraft Services, Inc.

DBA: AAR Aircraft Services-Oklahoma

6611 South Meridian

Oklahoma City, OK 73159-1104

certifies that the change in the type design for the following product with the limitations and conditions therefor as specified hereon meets the aircoorthiness requirements of Part 3 of the Civil Air Pogulations. dated November 11, 1949.

Original Product Type Certificate Number:

1A10

Make: Piper

Model: PA 23-250

Description of Type Design Change:

Installation of two Hartzell HC-E3YR-2ATF/FC7663-2R three-bladed propellers, and Piper Navajo spinner assembly (P/N 43940-00) and associated systems in accordance with Western Skyways Installation Instructions No. WS-601.

Limitations and Conditions:

(See continuation sheet 3 of 4)

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

Date of application: March 14, 1977

Dale of issuance: April 26, 1977

Dalo roissued: 7/22/88; 3/5/99

Date amended: January 12, 1978

(Signature) S. Frances Cox, Manager

Special Certification Office,

Southwest Region

(Title)

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

United States Of America

Bepartment of Transportation - Federal Abiation Administration

Supplemental Type Certificate

(Continuation Sheet)

Number SA441NW

Date of Issuance: April 26, 1977 Reissuance Date: March 5, 1999

Limitations and Conditions (Continued):

Approval of this change in type design applies to the above model aircraft only. This approval should not be extended to aircraft of this model on which other previously approved modifications are incorporated unless it is determined that the interrealtionship between this change and any of those other previously approved modifications will introduce no adverse effect upon the airworthiness of that aircraft. This approval is intended for installation in the above model with the Lycoming IO-540 series and TIO-540-ClA engines. A copy of this Certificate, Addendum No. SA441NW, FAA Approved Flight Manual Supplement, and Installation Instructions No. WS-601 shall be maintained as part of the permanent records for the modified aircraft.

SUPPLEMENTAL TYPE CERTIFICATE ADDENDUM NUMBER SA441SW

The conditions and limitations of Type Certificate Data Sheet No. 1A10 apply except as follows:

This STC Addendum, which is part of Supplemental Type Certificate No. SA441SW, prescribes conditions and limitations under which the product for which the STC was issued meets the airworhtiness requirements of the Civil Air Regulations. A copy of this STC Addendum is required to be maintained as part of the modified aircraft's permanent records.

SUPPELEMENTAL TYPE CERTIFICATE HOLDER:

AAR Aircraft Services, Inc.

DBA: AAR Aircraft Services-Oklahoma

I. PIPER MODEL PA-23-250 5 PCLM (NORMAL CATEGORY) OR 6 PCLM (NORMAL CATEGORY) WHEN ITEM 603(b) IS INSTALLED

Serial Nos. Eligible:

27-2505 through 27-7654001

Required Equipment:

(Serial No. 27-2505 through 27-3836, 27-3838 through 27-3943 at 4800 lbs. maximum weight) Add 1 (o).

(Serial No. 27-2505 through sy-3836, 27-3838 through 27-3943 at 5200 lbs. maximum weight) Add 1 (o).

(Serial No. 27-3837, 27-3944 through 27-4425, 27-4427 through 27-4573) Add 1(o).

(Serial No. 27-4426, 27-4574 through 27-7654001) Add 1(0).

United States Of America

Bepartment of Transportation - Nederal Abiation Administration

Supplemental Type Certificate

(Continuation Sheet)

Number SA441NW

Date of Issuance: April 26, 1977 Reissuance Date: March 5, 1999

Limitations and Conditions (Continued):

Production Basis:

None. Parts manufactured under this STC may have been produced without an FAA approved quality control procedure. Prior to installation, such parts must be inspected for conformity and airworthiness in accordance with FARs 21 and 43. Prior to returning modified aircraft to service, conformity with approved installation data must be determined.

Propeller and Propeller Accessories:

1. (o) Hartzell HC-E3YR-2ATF with FC7663-2R blades. 81.0 lbs. ea. (+24) Pitch settings at 30" Sta:

Low: 13.0; High: 80.0° (feathered) Diameter: Not over 76.0"; Not under 75.0"

NOTE: Eligible only on PA-23-250, Serial Numbers 27-2505 through 27-7654001 when installed in accordance with STC SA441NW. NOT TO BE INTERMIXED WITH OTHER PROPELLERS.

 (a) Piper spinner consisting of: Cap assembly, Part No. 43929-00; Bulkhead assembly, Part No. 43933-00; and Spinner assembly, Part No. 43940-00.

Interior Equipment:

401 (CR) WE602 dated April 26, 1977, is the FAA Approved Flight Manual Supplement and is required on Piper PA-23-250, Serial Number 27-2505 through 27-7654001 when Item 1 (c) and 2 (a) are installed in accordance with STC SA441NW.

-END-

Western Skyways Instructions for the installation of Hartzell 3-blade propellers on a Piper Aztec. Model PA 23-250. (land planes) Serial numbers 27-2505 thru and including 27-7405471.

Instructions #WS601

- A. Removal of the propellers.
 - 1. Remove the cowling.
 - 2. Remove the original propellers and spinners
 - (a) Disconnect all de-ice boot wires if applicable.
 - 3. Remove the original starter ring gear.
 - 4. Remove the original brush block assembly if applicable.
- B. Preparing the propellers for installation.
 - 1. Remove the propellers from the shipping crates and inspect for shipping damage and conformity to the S.T.C.
 - 2. Install the spinner rear bulk head.
 - 3. If applicable install the de-ice boots in accordance with Piper Drawing 32001 or B.F. Goodrich STC No. SA 195EA.
 - (a) Ascertain that the boots match the aircraft electrical system.
 - 4. Service the accumulator in accordance with the manufacturer's specs.
- C. Installation of the propellers.
 - 1. Install new brush block assembly if required.
 - 2. Install the starter ring gear.
 - 3. Installed the propellers.
 - (a) Torque to 60-70 ft. lbs. and safety.
 - 4. Installed de-ice boot connections if applicable.
 - 5. Install the spinner.
 - 6. Install the cowling.
 - 7. Make the required log book entries.
 - 8. Correct the weight and balance forms.
 - 9. Insert the applicable forms in the AFM.

U.S. Department

U.S. Department of Transportation Federal Aviation

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

Form Approved OMB No.2120-0020

For FAA Use Only

Walter Mangon

Office Identification WP27 Seg

Adminis			• •		·.						V	VP	7 /el				
instruc	tions	and disposi	ition of th	his fo	ntries. See FAR rm. This report on (Section 901	is require	ed by	y I	Appendix B, and Alaw (49 U.S.C. 142 on Act of 1958).	AC 43.9-1 (21). Failure	or subseque to report c	ent rev an res	vision thereof ult in a civil p) for enalty not to			
1. Ai	rcraf	ft Make	e Piper				Model . PA23-250 - 6PCLM										
			Serial No. 27-4480					Nationality and Registration Mark N13839									
2. O	wnei	r)	ne (As sho ohn G De		registration certific	ate)	Address (As shown on registration certificate) P. O. Box 7007 Petaluma, CA 94955.							,			
						3.	For	F	AA Use Only								
						,											
4. Unit Identi								01	n				5. Type				
	Unit		Make					Ν	Model	s	erial No.		Repair	Alteration			
AIRFR	RAME		——————(As describe					ed in item 1 above)————						x			
POWE	ERPLA	ANT							,								
PROP	ELLE	:R															
APPLIA	ANCE		facturer									,					
		I				6. C	onfo	n	mity Statement	<u> </u>							
A. Ag	gency	y's Name an	d Addre	SS					B. Kind of Agency	/		C. C	ertificate No				
Walte							X		U.S. Certificated Mec	nanic		1570	369				
		Municipal Airr anch Drive	port				L	1	Foreign Certificated M	lechanic							
		CA 94954-39	908					+	Certificated Repair Station								
he	ereto	have been r	made in	acco		requirem	ents	lei	ntified in item 4 ab of Part 43 of the ny khowledge.								
Date 10/20/	06					Si	gnat	tui	re of Authorized In	·	bry	os)	Wa	alter Mangon			
						. Appro	val 1	fo	or Return To Serv	ice							
		Administrator	r of the F						unit identified in it is APPROVED	em 4 was i	REJECTE	D	•	ibed by			
BY		FAA Fit. Stan Inspector	ndards		Manufacturer		X	L	Inspection Author		Other (S)	pecify)					
		FAA Desig	gnee		Repair Station			L	Person Appoved by Canada Airworthines								
Date o	f Ap	proval or Re	al or Rejection Certificate or Designation No.						Signature of A	thorized In	dividal	7					

1570369

10/20/06

N13839					10/20/06				
Installation of Maste	n Products On-Boa	rd Engine	Analyzer:						
1. Installation of STO Road Ste A, Ann	SA1532GL, Dtd. 06/ Arbor, Michigan, 481	25/90, Rev 08,	v. 11/14/06. M ast	en Produc	cts Incorpora	ted, 713 W,.	Ellsworth		
2. Installation of On-I 1, Revision B, Dto	Board Engine Analyze I. 9/12/90	er in accor	cance with Maste	en Produc	ts Inc., Insta	llation Manu	al, Edition		
3. Continued Airworth and soft cotton clo	hines instructions che oth.	ck for sec	urity of installatio	n. Clean i	nstrument fa	ce using mil	d deterger	nt	
	*******	******	** NOTHING F	OLLOW	S *******	******	*****		
							·		
									*
			•						•
							•		
				•					
						•			
		4							•
·			•						•
		•							
		•			•				
					-			,	
									*
						•			
			et a						

United States of America

Department of Transportation—Federal Aviation Administration

Supplemental Type Certificate

Number SA1532GL

This certificate, issued to Masten Products Incorporated 713°W. Ellsworth Road, Suite A Ann Arbor, Michigan 48108

cortifies that the change in the type design for the following product with the limitations and conditions therefor as specified hereon meets the airworthiness requirements of Part 3 of the Civil Air Regulations. See Aircraft Specification No. 1A10 for complete certification basis. Original Product — Type Certificate Number 1A10

Make: Piper

Model: PA-23, -23-160, -23-235, -23-250, -E23-250

Description of Type Design Change:

Installation of On-Board Engine Analyzer System in accordance with Masten Products Incorporated Installation Manual, Edition 1, Revision B, dated 9/12/90, or later FAA Approved revision.

Limitations and Conditions

1. This instrument is approved as optional equipment only and shall not replace any other required instrument. 2. FAA Approved Airplane Flight Manual Supplement dated November 14, 1990, or later FAA approved revisions required. 3. Fuel flow transducers and Exhaust Gas Temperature and Cylinder Head Temperature thermocouple installations must be previously FAA approved for this installation. (See STC Continuation Sheet, Page 3.)

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

Fedoral Aviation Administration.

Date of application: June 25, 1990

Sale reissued:

Date of issuance :

November 14, 1990

Tale unrended:



By direction of the Administrator

Donald P. Michal, Manager

Chicago Aircraft Certification Office

(Title)

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

This certificate may be transferred in accordance with FAR 21.47.

United States of America

Department of Transportation—Federal Aviation Administration

Supplemental Type Certificate

(Continuation Sheet)

Number SA1532GL

Limitations and Conditions: (Continued)

Date of Issuance: November 14, 1990

4. This approval should not be extended to other aircraft of this model on which other previously approved modifications are incorporated unless it is determined by the installer that the interrelationship between this change and any of the other previously approved modifications will introduce no adverse effect upon the airworthiness of that aircraft.

. END . . .

U.S. Department

Federal Aviation Administration

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

Form	Approved	
<u>OMB</u>	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 exceed \$1.0	and disposition of this fo 200 for each such violation	rm. This report is requir on (Section 901 Federal.	ed by Aviat	/ law (49 tion Act of	J.S.C. 142 1958).	1). Failure	e to report o	an resu	ult in a civil p	enalty not to
1. Aircraf	Make			<u>:</u>	Mode	A23-250 -	6PCLM			
	Serial No. 27-4480					nality and Re	egistration Ma	ırk	٠.	
2. Owner	Name (As shown on John G Deaton	registration certificate)			P	ess (As show 7. O. Box 70 etaluma, C		tion certif	icate)	
	· · · · · · · · · · · · · · · · · · ·	3.	For	FAA Use	Only					
	,									
		4. Unit Identif	icati	on					5.	Гуре
Unit	Make	3		Model			Serial No.		Repair	Alteration
AIRFRAME		(As describ	oed ir	item 1 al	oove)					x
POWERPLA	INT									
PROPELLE	R									
APPLIANCE	Type Manufacturer								·	
		6. C	onfo	rmity Sta	tement					
A. Agency	's Name and Address		1.	r	of Agency			C. C	ertificate No	
Walter Man	igon flunicipal Airport		X		ficated Mech			1570	369	
501 Sky Ra			\vdash		ertificated Mo		······································		-	
retaluma, v	DA 94934-3900			Manufactu	· · · · · · · · · · · · · · · · · · ·			1		-
hereto	that the repair and/or all have been made in acco ation furnished herein is t	rdance with the requiren	nents	of Part 43	3) pf the U.\$	ove and de S. Federal	escribed on Aviation Re	the rev	erse or atta	chments the
Date 10/20/06		S	ignat	ure of Aut	horized Inc	~ <i>/</i> /	mgo	m	w	alter Mangon
		7. Appro	oval	or Retur	1 To Servi				*********	
Pursi the A	uant to the authority give dministrator of the Feder	n persons specified belo al Aviation Administratio	w, the	e unit ider d is 🔽 A	ntified in ite	m 4 was i	nspected in		anner presc	ribed by
BY	FAA Fit. Standards Inspector	Manufacturer	X		tion Author	ization	Other (S	pecify)		
	FAA Designee	Repair Station		Canada	ppoved by T Airworthiness	Group		· • · · · · · · · · · · · · · · · · · ·		
	proval or Rejection	Certificate or Designation N	•	Şignle	ture of Av			/ /}	\	
10/20/06		1570369	1		XYC	alter	- // /		W UCD	alter Mangon

113839		10	0/20/06		
nstallation of Bob Fields Inflatable	Door Seals:				
Installation of STC SA4237WE, Dtc Street, Santa Paula, CA. 93060-38	d. 08/14/80, Rev. 09 819, 805-525-6236	/25/80. Bob Fields Aero	ocessories, 340 E. S	Santa Maria	
Installation of Bob field Inflatable D 310, Dtd. 8/16/90. P. 7 of 7.	oor Seals in accord	ance with Bob Fields Ins	stallation Instruction	s, Report BFA	·
Continued Airworthines instructions cotton cloth. Repair damage clear	s check for security on with MEK and repa	of installation. Clean sea ir with RTV sealant.	al using mild deterg	ent and soft	
*******	******* N	OTHING FOLLOWS	*******	*****	
					,
•	•				
;					
1	•		,		
			,		
					٠.
			•		
			•		
		·			
•					\$
	·				·
•					•
	en e				
• • • • • • • • • • • • • • • • • • • •	•		·		•
•					
	<i>,</i>	•	•		,

Department of Transportation — Jedeuni Mointein Manhiberation Supplemental Type Certificate Number SMESTIE

Manglad sends leb Fields Aerocessories

and fine that the change in the type daign for the following product with the li though magaziful lane made the advantion as a survey and of Bart 3° of the CIVII AIR See Aircraft Specification 1A10 for complete certification basis. 19 Sycholylus Kinde: 1A10

Made: Piper

Mal: PA-23, PA-23-160, -235, -250, PA-E23-250

With FAA sealed Aerocesseries Brawing No. 3950 dated July 2, 1980, or later FAA

the basic aircraft of the specified model only that is otherwise unmodified. This approval should not be extended to other aircraft of this model on which other previously approved modifications are incorporated unless it is determined by the installer that the interrelationship between this change and any of these the aircraft.

This conlighests and the supporting date which is the heir for approved shall commiss in affect such som sendend sugarched souled or i kommelies dub is allowed whatled by the Abelia state of the Federal Shirting Shirting button

Sta / gyatam: August 14,: 1980

Date warmed:

Singlemenn: September 25, 1980

Chief, Aircraft Modification Branch

Any alteration of this cortificate is punishable by a fine of me executing \$1,500; or in Page 1 of 2 Pages

J.S. Department of Transportation

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 for each such violation (Section 901 Federal Aviation Act of 1958).

exceed	\$1,000 fe	disposition of this or each such viol	lation	(Section 901	Federal Av	iati	on Act of 1958	3).	. _/ and	. J to roport c				
1. Air		Make Piper						Mode	I A23-250 ·	- 6PCLM				
		Serial No. 27-4480		⊒An dia					nality and I	Registration Ma	ırk			
		Name (As show	m on re	enistration certifi	icate)			Addre	ess (As sho	wn on registra	lion certif	ficate)		
2. Ov	vner	John G Dea		Signation Colum	ou.c,			P	. O. Box 7	7007		,		
								P	etaluma,	CA 94955.				
							AA Use Only							
Th th	ne data ide ne above d /	entified herein cor described aircraft,	mplies subje	with all the apect to comform	ppliciable ain ity inspection	wor n by	thiness require a person auth	ments orized	and is ap I in FAR 4	oproved for 13, section 43	.7.			
Da	ate 10/0	5/06 Si	gnatu	re / c	Sall	_	<u> </u>	OAK	(-FSDO, \	NP27				
		3/03	J		nit Identifica	atic	on	*				5. T	ype	
i	Jnit		Make		***************************************		Model			Serial No.		Repair	Alteration	
AIRFR	AIRFRAME(As describe				d in	item 1 above)——					X		
POWE	RPLANT							_						
PROPI	ELLER							,						
-		Туре			1									
APPLU	ANCE	Manufacturer												
		<u>l</u>			6. Cor	nfo	rmity Statem	ent	L			L	<u></u>	
A An	ency's N	ame and Addres	is			Ī	B. Kind of A				C. C	ertificate No.		
	r Mangon				· · · · · · · · · · · · · · · · · · ·	x	U.S. Certificate				1570	1570369		
Petalu	ıma Munic	cipal Airport				\vdash	Foreign Certific	ated M	echanic		7	-		
	ky Ranch Ima CA 9	Drive 4954-3908					Certificated Re	pair Sta	ation		1			
, cluic		1001000				Г	Manufacturer]			
he	reto have	t the repair and/o been made in a furnished hereir	accon	dance with th	e require/me	nts	of Part 43\of	the U.	ove and o S. Feder	described or al Aviation R	the re	verse or attac ons and that	chments the	
Date 10/05/	06				Sig	nat	ure of Authori	zed in	dividual	berro	λ	VV	alter Mangon	
					7. Approv	al 1	for Return To		ice					
	Pursuant the Admir	to the authority	given edera	persons spe	cified below ministration	, th	e unit identifie	d in ite	em 4 vas	inspected in	n the m	nanner presci	ribed by	
BY		A Fit. Standards ector		Manufacture	er .	X	Inspection			Other (S	Specify)			
	FA	A Designee		Repair Station	on		Person Apport	ed by	Fransport s Group	1		<u> </u>		
Date o	f Approva	al or Rejection		Certificate or D	esignation No.	•		of Au	thorized	Individual		1)		
10/05/					1570369	_	XY	01	Ju !	an	0	V w	alter Mangon	
FAA F	orm 337	(12-88)		·							1			

8.	Description of Work Accomplished
	(If more space is required, attach additional sheets. Identify with aircraft nationality and registration mark and date work completed.)
N1	3839 10/05/06
	Installation of Avation Development Engine Oil Filter and Chip Warning Light.
1.	Piper PA23-250 -6PCLM Aztec Sn: 27-4440
2.	Installed to Lt. & Rt. Engine compartment Aviation Develoment Oil Filter, with Chip Detecter. Installation procedures completed with only changes to installation of alignment of hoses and mounting brackett to provide proper clearances and bend radius of hoses.
3.	Control and operation: Not appliciable.
4.	Servicing: Aviation Development Corporation Report FM 020M.
5.	Maintenance Instructions: Aviation Development Corporation Report FM 020M.
6.	Troubleshooting: Contact Aviation Development Corporation, 1305 NW 200th Street, Seattle, WA 98177, (206 546 3011
7.	Removal and replacement information: Not appliciable.
8.	Diagrams: None applicable.
9.	Special instructions: Not appliciable:
10	. Application of protective coatings: Not Appliciable.
11	Data: None available
12	List of special tools: Non appliciable
13	. For commuter category aircraft: Not appliciable Part 91 use.
14	. Recommended overhaul periods: Not appliciable.
15	Airworthiness limitations: Aviation Development Corporation Report FM 020M, Supplement Flight Information for Aircraft Equipped with Aviation Development Corporaton Oil Filter, included to and made part of aircraft POH.
16	. Revisions: For revisions to this FAA 337 ICA submit a letter to local FSDO with copy of revised FAA 337 ICA. See also FAA order 8300.10 Attachment ICA checklist item 16.

	NOTHING FOLLOWS
	. $oldsymbol{\epsilon}$
	Additional Sheets Are Attatched

U.S. Department of Transportation

of Transportation
Federal Aviation

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

Form Approved OMB No.2120-0020

For FAA Use Only

Walter Mangon

Office Identification

Administration						l V	17 2) BC			
instructions and	disposition of this fo	ntries. See FAR 43.9, I rm. This report is requ on (Section 901 Federa	ired by	/ law (49 U.S.C	C. 1421). Failure i						
1. Aircraft	Make Piper				Model PA23-250 - 6I	PCLM					
	Serial No. 27-4480				Nationality and Reg N13839	rk					
	Name (As shown on	registration certificate)			Address (As shown	on registrati	on certific	ate)			
2. Owner	John G Deaton			P. O. Box 7007 Petaluma, CA 94955.							
		\sim	$\overline{}$	FAA Use Only							
The data ide the above d	ntified herein compliescribed aircraft, sub	es with all the appliciable pject to comformity inspendent	airwo otion b	rthiness require y a person auth	ments and is appro orized in FAR 43, : OAK-FSDO, WP	section 43.	7				
		4. Unit/dent	ificati	on				5. T	уре		
Unit	Mak	9		Model	Se	rial No.		Repair	Alteration		
AIRFRAME(As describe				n item 1 above)				x		
POWERPLANT											
PROPELLER		·						÷			
APPLIANCE	Type Manufacturer										
		6. (Confo	rmity Stateme		-					
A. Agency's Na	me and Address			B. Kind of A	<u> </u>		C. Ce	rtificate No.			
Walter Mangon	nol Airmort		^	U.S. Certificate			157036	69			
Petaluma Munici 501 Sky Ranch (•		\vdash	Foreign Certific							
Petaluma, CA 94	954-3908			Certificated Rep	pair Station						
				Manufacturer					·		
hereto have	been made in acco	teration made to the un rdance with the require rue and correct to the b	ments	of Part 43 of t	he U.S. Federal A						
Date 10/05/06			Signat	thre of Authoriz	red Individual	non)	Wa	ilter Mangon		
		7. App	roval	or Return To	Service /						
		n persons specified bel ral Aviation Administrati				pected in REJECTE		nner prescr	ibed by		
	Flt. Standards	Manufacturer	х	Inspection	Authorization	Other (Sp	pecify)				
] FAA	N Designee	Repair Station			ed by Transport						
Date of Approval	or Rejection	Certificate or Designation	No.		of Authorized Ind	vidual					

1570369

10/05/06

8.	Description of Work Accomplished (If more space is required, attach additional sheets. Identify with aircraft nationality and registration mark and date work completed.)
N1	13839 10/05/06
	Installation of Sun Visors (Rosen)
1.	Piper PA23-250 (Six Place), 1970, Sn. 27-4480, 2213.0 Hrs.
2.	Removal of existing Piper Pn. 31390-02 (Cardboard Vinyl Covered installed sun visors and replacement with Rosen Products Sun Visors Pn. RPAZ-400. Installed to original mounting tube using original mounting bracketts using Rosen Installation Instructions Drawing RPAZ-400.
3.	Control and operation: Not appliciable.
4.	Servicing: Clean with mild detergent and a soft linen cloth.
5.	Maintenance Instructions: No Rosen Instructions, Inspections as per Piper Maintenance Manual.
6.	Troubleshooting: None.
7.	Removal and replacement information: Not appliciable.
8.	Diagrams: Not appliciable.
9	Special instructions: Not appliciable:
10	. Application of protective coatings: Not Appliciable.
11	. Data: None
12	List of special tools: Non appliciable.
13	For commuter category aircraft: Not appliciable Part 91 use.
14	Recommended overhaul periods: Not appliciable.
15	. Airworthiness limitations: Not appliciable.
16	Revisions: For revisions to this FAA 337 ICA submit a letter to local FSDO with copy of revised FAA 337 ICA. See also FAA order 8300.10 Attachment ICA checklist item 16.
17	For continued airworthiness a copy of Precision Aviation Inc, Bulletin 1C-102 Installation and Compensatio made part of aircraft records.

	Additional Sheets Are Attatched

Pre oiler

Walter Mangon



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

Form Approved OMB No.2120-0020

For FAA Use Only

Office Identification

Federal Aviation Administration											NP2	-7 fr	١	
instructions a	DNS: Print or type nd disposition of th 00 for each such view	nis for	m. This report i	is require	ed by	1	law (49 U.S.C.	1421)	43.9-1 (). Failure	or subseque to report	uent rev can res	rision thereof ult in a civil p) for enalty not to	
1. Aircraft	Make Piper							Model	23-250 -	6PCLM				
	Serial No. 27-4480	•					•	Nationality and Registration Mark N13839						
2. Owner	Name (As sho John G De		registration certifica	ate)	Address (As shown on registration certificate) P. O. Box 7007 Petaluma, CA 94955.									
				3.	For I	F/	AA Use Only							
			4. Uni	t Identifi	catio	OI	n					5. 1	Гуре	
Unit		Make	,			N	Model		\$	Serial No.		Repair	Alteration	
AIRFRAME(As describe				ed in	n i	item 1 above)–			-			х		
POWERPLAN	π													
PROPELLER		,				_								
APPLIANCE	Type · · Manufacturer													
				6. C	onfo	17	mity Statemen	nt				.		
A. Agency's	s Name and Addre	ss					B. Kind of Age				C. C	Certificate No	-	
Walter Mang					X		U.S. Certificated N	Mechai	nic	-	1570	369		
Petaluma Mi 501 Sky Rar	unicipal Airport nch Drive				<u> </u>	+	Foreign Certificate				_			
	A 94954-3908				\vdash	+	Certificated Repai	ir State	on					
hereto h	that the repair and ave been made in ion furnished herei	acco	rdance with the	requitem	ents	lei s c	ntified in item 4 of Palt 43 of the	e U.S.	e and d Federa	escribed or I Aviation F	the rev Regulation	verse or attadents	chments the	
Date 10/05/06				Si	grat	tu Y	are of Authorize	ed Indi	vietual	non		w	alter Mangon	
			7	7. Appro	vai 1	fo	or Return To S	ervic	e)				
	ant to the authority								4 was	inspected i		nanner presc	ribed by	
	FAA Fit. Standards Inspector	600.	Manufacturer	III 113G G G G	X	Ĭ	Inspection Au	uthoriz		Other (
	FAA Designee		Repair Station	י ו			Person Appoved Canada Airworth	by Tra Ainess (insport Group	ļ				
Date of Appr	oval or Rejection	•	Certificate or Des	signation N	lo.	T	\$ignature			ndividual				

10/05/06

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

R	Descri	ntion	Ωf	Work	Accom	plished
u.	DESOLI	puvii	v	TACIK	TOURING AND ADDRESS OF THE PARTY AND ADDRESS O	yasıleu -

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

N13839

10/05/06

Installation of Preoiler System

- 1. Installed STC SA00448DE Oilamatic Inc. P. O. Box 5284, Englewood, CO 80115.
- 2. Installed in acordance with FAA Approved Oilamitic, Inc. Drawing List No. PA23400, Jun 01, 2000.
- 3. Continued Airworthiness see Oilamitic, Inc. Drawing List No. PA23400, Jun 01, 2000, made part of aircraft records.
- 4. FAA Approved Flight Manual Supplement made part of aicraft flight manual.

Additional Sheets Are Attatched

United States of America

Bepartment of Transportation—Federal Aniation Administration

Supplemental Type Certificate

Number SA00448DE

This certificate, issued to

Oilamatic, Inc. P.O. Box 5284 Englewood, CO 80155

certifies that the change in the type design for the following product with the limitations and conditions therefor as specified hereon meets the airworthiness requirements of Part 3 of the Civil Air Regulations.

Original Product — Type Certificate Number:

1A10

Piper Aircraft Corporation

Model.

PA-23, PA-23-160, PA-23-235, PA-23-250, & PA-E23-250

Description of the Type Design Change:

Installation of Oilamatic Preoiler system in accordance with FAA approved Oilamatic, Inc. Drawing List No. PA23400 initial release, dated June 1, 2000, or later FAA approved revision.

Limitations and Conditions:

1. FAA approved Airplane Flight Manual Supplement Engine Proiler Piper PA-23, Rev. No. N/C, dated February

14, 2001, or later FAA approved revision is required.

2. This approval should not be extended to aircraft of this model on which other previously approved modifications are incorporated unless it is determined that the interrelationship between this change and any of those other previously approved modifications, including changes in type design, will introduce no adverse effect upon the airworthiness of that aircraft.

3. A copy of this Certificate and Flight Manual Supplement must be maintained as part of the permanent records for the modified aircraft.

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

Date of application:

August 6, 2000

Date reissued:

Date of issuance:

February 14, 2001

Date amended:

Roger A. Caldwell (Signature) Acting Manager

Denver Aircraft Certification Office

By direction of the Administrator

Northwest Mountain Region, Denver, Colorado

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

This certificate may be transferred in accordance with FAR 21.47.

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	_
1.0-1-	

WP22 828

instruc	tions and o	disposition of th	nis fo	ntries. See FAR rm. This report n (Section 901	is require	ed by	y law (49 U.S.	C. 142	.C 43.9-1 1). Failur	(or subsequ e to report c	ent rev an resi	ision thereof) ult in a civil p	for enalty not to
1. Aiı	 	Make Piper	•	· .				Mode	A23-250 -	6PCLM		·	
-		Serial No. 27-4480							nality and R	legistration Ma	rk		
2. O	wner	Name (As sho John G De		registration certific	ale)			P	. O. Box 7	wn on registrat 007 CA 94955.	ion certif	licate)	
					3.	For	FAA Use Onl	у					
				4. Un	it Identifi	icati	on					5. T	уре
l	Jnit	Make					Model			Serial No.		Repair	Alteration
AIRFR	AME	(As describe				ed ii	n item 1 above	·)		· · · · · · · · · · · · · · · · · · ·			X
POWE	RPLANT											·	
PROP	ELLER			·									
APPLI	ANCE	Type Manufacturer								*****			
					6. C	onfo	rmity Statem	ent				<u> </u>	<u> </u>
A. Ag	ency's Na	me and Addres	ss				B. Kind of A	gency			C. C	ertificate No.	
	r Mangon ıma Munici	pal Airport				X					1570	369	
501 S	ky Ranch (ima, CA 94	Drive				\vdash	Foreign Certific						
i claiu	a, UA 3º	~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~		•			Manufacturer						
he	reto have	been made in	acco	teration made to rdance with the rue and correct	requirem	ents	of Part 43 of	the U.S					
Date 10/05/	06				Si	gnat	ture of Author	zedino		ago.)	Wa	lter Mangon
				· · ·			for Return To						
	the Admin	istrator of the F	give eder	n persons speci al Aviation Adm	fied belov	n an	e unit identifie	d in ite	m 4 was	REJECTE	D	anner prescr	ibed by
BY	FAA Inspe	Fit. Standards ctor		Manufacturer		X	Inspection			Other (S)	респу)		
		Designee		Repair Station			Person Appor Canada Ainvo	orthiness	Group	_			
		or Rejection		Certificate or Des	•		Signature	of Au	thorized li	ndividua	./ .	5	
10/05/0	06 orm 337	(12-88)			1570369			χY	Mu	11/0	777	Wa	lter Mangon
TMATO) 111 33/	(12-00)								1/			

13839	·		10/05/06	·	
Installation of V	Vhelen Strobe Light System	m.			
Installed STC SA	.615EA Whelen Stroble Ligh	t Systems, Dated 06/17	/2005		
Installed Wing St Systems Installa	тоbe Light system , A413A, I tion and Service Manual, Ma	HDA, CF 14-28 in accor ay 2005.	dance with Whelen Anti-C	ollision Light	
Installed Tail (Ru 1.51 Lbs) in acco	dder) Self Contained Strobe ordance with Whelen Anti-Co	, HR CFA 14-28, Sn, 02 Illision Light Systems Ind	981, Wt. 1.5 Lbs. (Remove stallation and Service Man	ed WRM14VDC, ual, May 2005.	
Continued Airwo	rthiness Whelen Flow Chart	made part of aircraft rec	cords.		
	**********	******** NOTHING FO	LLOWS ************************************	******	
				·	
			•		
					·
	•				
		N.			
	No.				
		,			
	• •	· •			
		•			

APPENDIX A

United States Of America

Department of Transportation - Nederal Abiation Administration

Supplemental Type Certificate

Number SA615EA

This Cortificate issued to

Whelen Engineering Company, Inc. Route 145, Winthrop Road Chester, Connecticut 06412-0684

certifies that the change in the type design for the following product with the limitations and conditions therefor as specified hereon meets the aircorthiness requirements of Part 3, 6, 23, 27 of the Civil Air/Federal Aviation Regulations.

Original Product Type Certificate Number:

See Attached Eligibility List dated June 18, 1999

Make:

Model:

Description of Type Design Change:

Installation of Whelen Anti-Collision Strobe Light Systems, Part Number 01-0770006-(), 01-0770028-(), 01-0770029-(), 01-0770062-(), and 01-0770900-(), as replacement for originally installed anti-collision lights, when installed in accordance with Whelen Anti-Collision Light Systems Installation and Service Manual, May 2005, Document No. 05131, Rev-, or later FAA-approved revision.

Limitations and Conditions.

(See continuation sheet 2 of 6)

The STC holder will provide each person it permits to use this certificate to alter the product written evidence of the agreement in a form acceptable to the Administrator.

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

Date of application : February 19, 1968

Date of issuance : May 14, 1968

Date reissaed:

Date amended : June 17, 2005

See page 2 for amendment history.

TOMMISTRATOR

By direction of the Administrator

(Signature)

Richard B. Noll Manager, Boston Aircraft Certification Office

(Title)

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

FAA Form 3110-2(10-68)

Page 1 of 6

This certificate may be transferred in accordance with FAR 21.47.

. United States Of America

Department of Transportation - Hederal Abiation Administration

Supplemental Type Certificate

(Continuation Sheet)

Number SA615EA

Date Amended: June 17, 2005

Limitations and Conditions (Continued):

- 1. These lights comply with the anti-collision light standards of the FARs as follows:
 - a. With the red or combined red/white lens; those effective on or prior to August 10, 1971.
 - b. With the white lens; those effective on August 11, 1971.
- 2. Install the following placard Whelen Part No. A421, or other FAA approved equivalent:

WARNING

TO AVOID OPTICAL ILLUSION AND SEVERE VERTIGO, TURN ANTI-COLLISION LIGHTS OFF UPON ENTERING CLOUDS, FOG OR HAZE

- 3. The aircraft listed on the Eligibility List are those which have had both the physical installation of the lights substantiated and the field of coverage checked including the 20° mask. Aircraft not included in the list can use these lights when the physical installation and field of coverage is substantiated as indicated in the Whelen Anti-Collision Light Systems Installation and Service Manual, May 2005, Document No. 05131, Rev-, or later FAA-approved revision, section titled "Aircraft Not Specifically Mentioned on the Eligibility List".
- 4. The approval of this change in type design applies basically to aircraft listed on the attached eligibility list. This approval should not be extended to other aircraft of these models on which other previously approved modifications are incorporated unless it is determined by the installer that the interrelationship between this change and any of those other previously approved modifications will introduce no adverse effect upon the airworthiness of the aircraft. This determination should include a night flight check as specified in AC 43.13-2, Chapter 4, Paragraph 42a.

NOTE: Aircraft whose application for type certificate was made before April 1, 1957, may, but need not, comply with the field of coverage requirements of FAR 23(27).1401(b). Compliance with FAR 91.33(c) may be shown provided the light installation is in accordance with data approved prior to August 11, 1971, and the applicable criteria of Advisory Circular 43.13-2 are met.

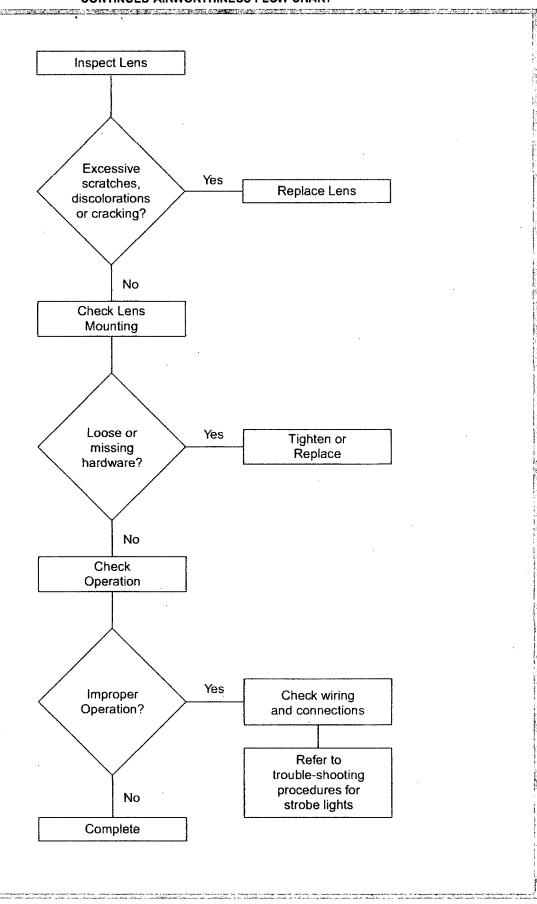
AMENDMENT HISTORY:

This STC has been previously amended on the following dates:

7/15/68, 7/19/68, 11/25/68; 1/17/69, 2/18/69, 4/18/69; 3/3/70, 12/10/70; 4/21/71, 9/14/71; 5/18/72, 9/22/72, 11/7/72; 7/21/76; 10/4/78; 3/26/81, 8/5/81, 8/25/81; 5/21/82; 7/16/91; 6/7/99; 6/18/99

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

CONTINUED AIRWORTHINESS FLOW CHART



. United States Bi America

Bepartment of Transportation - Hederal Abiation Administration

Supplemental Type Certificate

(Continuation Sheet)

Number SA615EA

ELIGIBILITY LIST June 18, 1999

AIRCRAFT MANUFACTURER	MODEL	TYPE CERTIFICATE
Piper	**PA-11	A-691
	**PA-12	A-780
	**PA-14	A-797
	**PA-15	A-800
	**PA-16	1A1
	**PA-17	A-805
	**PA-18 Series, PA-19	1A2
	**PA-20	1A4
	**PA-22 Series	1 A 6
	**PA-25 Series	2A8
	PA-23, PA-23-160, *PA-23-235 *PA-23-250, *PA-E23-250	1A10
•	PA-24, -24-250, -24-260, -24-400	1A15
	PA-28-140, -28-150, -28-151, -28-161 -28-161, -28-180, -28-235, -28S-160, -28R-180, -28S-180, -28-181, -28R-2 -28R-201, -28R-201T, -28RT-201, -28RT-201T, -28-201T, -28-236	•
	PA-30, PA-39	AIEA
	PA-31P	A8EA
	PA-31, PA-31-300, 325, 350	A20SO
	PA-32-260, -300, -32S-300	A3SO

NOTES TO ELIGIBILITY LIST:

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

Any alteration of this certificate is punishable by a fine of not exceeding \$1.000, or imprisonment not exceeding 3 years, or both.

FAA Form 8110-2-1(10-69) Page 6 of 6 This certificate may be transferred in accordance with FAR 21.47.

U.S. Department of Transportation

of Transportation
Federal Aviation
Administration

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

orm	Approved
OMB	No.2120-0020

For FAA Use Only

Office Identification
WP2784

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).

		000 for each such							_ 1 <i>j</i> . 1 di				onany not to	
1. Aiı		Make	Make					Model PA23-250 - 6PCLM						
		Serial No. 27-4480	Serial No. 27-4480						Nationality and Registration Mark N13839					
2. O	wner		Name (As shown on registration certificate) John G Deaton] (Address (As shown on registration certificate) P. O. Box 7007 Petaluma, CA 94955.					
		***************************************			3. 1	For	F	AA Use Only						
			•	4. Uni	t Identifi	cati	ation					5. Type		
	Unit		Make					Model		Serial No.		Repair	Alteration	
AIRFR	RAME	<u> </u>	(As described in item 1 above)————————————————————————————————————									x		
POWE	ERPLA	INT												
PROP	ELLE	R												
APPLI	ANCE	Type Manufacturer			:								·	
					6. Cc	nfo	л	mity Statement						
A. Ag	gency	's Name and Addr	ess				_	B. Kind of Agenc	Kind of Agency			C. Certificate No.		
Walter Mangon Petaluma Municipal Airport 501 Sky Ranch Drive Petaluma, CA 94954-3908					×		U.S. Certificated Mec Foreign Certificated M Certificated Repair St Manufacturer	Certificated Mechanic ted Repair Station				1570369		
he	reto	that the repair and have been made in ation furnished here	acco	rdance with the	requirements	ents st of	'n	of Part 43 of the U. ny knowledge.	.S. Fede					
Date 10/05/	06				Sig	gnat	bu	re of Authorized In		now		Wa	alter Mangon	
	-		·				_	r Return To Serv	L-y	<u> </u>				
	Pursi	uant to the authorit dministrator of the	y give Feder	n persons speci al Aviation Adm	fied belov inistration	v, the	d	unit identified in it is APPROVED	em 4 we	REJECT	D		ibed by	
BY		FAA Fit. Standards Inspector		Manufacturer		Х	L	Inspection Author	7	Other (S	pecify)			
		FAA Designee		Repair Station			L	Person Appoved by Canada Airworthines	S Group					
Date of Approval or Rejection Certificate or Designation No.					D.		Signature of A		d Individual		>			
10/05/0	06				1570369	1	١	177	inw	1.100	The same	~V wa	alter Mangon	

8. Description of Work Accomplished								
(If more space is required, attach additional sheets. Identify with aircraft nationality and registration mark and date work completed.)								
10/05/06								
Installation of Brackett Engine Air Filter.								
 Installed to Lt. & Rt. Engine compartment Bracket Engine Air Filter Assembly BA-3510, with Filter Element BA3505 in accordance with Federal Aviation Administration Supplemental Type Certificate Number SA71GL, List 1. 								
2 Installation in accordance with the instructions as provided in Brackett instruction sheet BA-3510-04, Rev. Dtd. 3/7/90. Steps 1 thru 5 completed.								
 Continued Airworthiness requirements instructions, Brackett Air filter Document I-194, dated 03/16/1 part of aircraft operation records. (Filter Assembly BA3510, uses Filter Element BA3505. 	994 made							
**************************************	***							
•								
	•							
·								
Additional Sheets Are Attatched								

BRACKETT AIRCRAFT CO., INC. STC SA71GL APPROVED MODEL LIST NO. 1

PAGE NO. 9

BRACKETT FILTER MODEL BA-3310 APPLICABILITY LIST									
AIRPLANE MODEL	T.C. NO.	DESCRIPTION OF TYPE DESIGN CHANGE	APPROVED DATE						
Piper PA-31P, PA-31P-350	ASEA	Install BA-3310 Filter Assembly in accordance with installation instructions PN BA-3310-06 dated March 3, 1991 or later FAA approved revision.							
BRACKETT FI	LTER MODEL BA-3	510 APPLICABILITY LIST							
Piper PA-23-250, PA-E23-250 with Lycoming T10540- (engine (eligible SN's 27-4426, 27-4574 and up).	1A10	Install BA-3510 Filter Assembly in accordance with installation instructions PN BA-3510-04 dated October 9, 1985 or later FAA approved revision. FAA APP JUN 1 S ARCRAFT CER IL-1 NITHES: A	ROVED 1992						
BRACKETT FI	TER MODEL BA-3	810 APPLICABILITY LIST							
Cessna 411, 411A	A7CE	Install BA-3810 Filter Assembly in accordance with installation instructions PN BA-3810-04 dated June 26, 1991 or later FAA approved revision							

Market States of America

Department of Transportation — Lederal Aviation Administration

Supplemental Type Certificate

Number SATIGI

This cortificate issued to Brackett Aircraft Company, Inc.

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

therefore a specified hereon must the airworthiness or quirements of Part. Specified under certification basis on the applicable Data Sheets or Aircraft Specifications. Regulations.

Original Product - Type Contificate Number:

Mako:

As shown on Approved Model List(s)

Model:

Description of Type Disign Change: .

Replace existing engine air filter frame assembly with Brackett Aircraft Specialties frame assembly in accordance with Approved Hodel List.

NOTE: FAA- Approved Model List(s) form a part of this certificate.

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

This corlificate and the supporting data which is the basis for approved shall occurio in affect until sur-

Federal Arialion Administration

Sale of application: January 9, 1975

Sat warmed: March 3, 1983

Substitution February 21, 1975

Galo amended:

Prydirection of the Administrator

Supervisor, Aircraft Modification Section

Supervisor, Aircraft Hodification Section

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

FAA Form #110-2 (10-68)

Thu certificate may be transferred in accordance with FAR 21.47.





#13938

ASSEMBLY PART NO. BA-3510

7-4480

APPROVED ON AIRCRAFT MODELS: SEE FAA APPROVED APPLICABILITY LIST.

REPLACES: PIPER 26874-00

P11-4419

FAA APPROVAL DATA: STC-SA71GL LIST NO. 1

FAA-PMA SUPPLEMENT NO. 1

BRACKETT AIR FILTERS
PA-23-250 TURBO
FILTER BA-3510 BRACKET
FILTER BA-3505 ELEMENT
INSTALLED NOV. 11, 1995

Your new polyurethane air filter has been designed to give maximum dust collecting efficiency, good air flow, lightweight, and economical element replacements. The element has been treated with a special treatment called a wetted agent and is approximately 98% efficient. The special wetted agent is the secret to the efficiency of capturing dust and repelling water. The element has also been treated with a fire retardant. For the above reasons, replace the element each 200 hours of use or every 12 months or when 50% covered with foreign material. Do NOT wash and reuse.

INSTALLATION INSTRUCTIONS

Step 1. Remove and discard original filter.

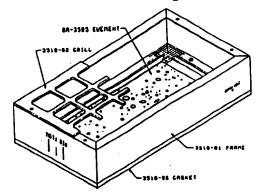
Step 2. Remove BA-3505 element from poly bag and insert into frame.

Step 3. Screw grill onto frame with the 4 screws & 4 internal lock-washers provided.

Lep 4. Install filter assembly in the same manner as the original.

NOTE: Make sure the hold down clamps press firmly against the filter frame.

Step 5. NOTE: After initial installation of filter assembly fill out FAA form 337 for return to service. On future replacement of parts this form will not be required.



Servicing: Under normal conditions, replace filter element, P.N. BA-3505, after 200 hours use or 1 year intervals. Under severely dusty conditions, check daily and replace when element is 50% covered with foreign material.

Instruction Sheet Part No. BA-3510-04 Date: Rev. 3-7-90

Mfg. by: Brackett Aircraft Co., Inc. Kingman, AZ 86401



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

	and disposition of this fo 00 for each such violation					re to report	can res	ult in a civil p	enalty not to		
1. Aircraft	Make Piper		-	Model PA23-250 - 6PCLM							
	Serial No. 27-4480				Nationality and Registration Mark N13839						
2. Owner	Name (As shown on John G Deaton	registration certificate)			Address (As shown on registration certificate) P. O. Box 7007 Petaluma, CA 94955.						
3. For FAA Use Only											
·		4. Unit Ider	ntifica	ation				5. Type			
Unit	Mak	е		Model		Serial No.		Repair	Alteration		
AIRFRAME		——————————————————————————————————————							х		
POWERPLAT	श										
PROPELLER											
APPLIANCE	Type Manufacturer										
		6.	Con	formity Statem	ent			_			
A. Agency's	s Name and Address			[B. Kind of Agency				C. Certificate No.		
501 Sky Rar	unicipal Airport	}	Foreign Certific	U.S. Certificated Mechanic Foreign Certificated Mechanic Certificated Repair Station							
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 10/05/06		ide and correct to the		nature of Author	zed Individual	2Mo	\sim		alter Mangon		
7. Approval for Return To Service Walter Mangon											
Pursuant to the authority given persons specified below, the unit identified in item 4 was respected in the manner prescribed by the Administrator of the Federal Aviation Administration and is APPROVED REJECTED											
	FAA Fit. Standards Inspector	Manufacturer	х	. 1	Authorization	Other (- 5-77-4-1-1		
	FAA Designee	Repair Station Certificate or Designation		Canada Airwo	ved by Transport orthiness Group						
, ,	oval or Rejection		Signature	of Authorized	. /1	. 41 -	(م				
10/05/06		15703	369		Vallu	11/10	Jager.	W	alter Mangon		

United States Gi America

Bepartment of Transportation - Federal Abiation Administration

Supplemental Type Certificate

Number SA00621LA

This Earlifeasto issued to

HORIZON INSTRUMENTS, INC.

600 S. Jefferson St., Unit C Placentia, California 92870

cartifies that the charge in the type design for the following product with the limitations and conditions therefor as specified hereon meets the airworthiness requirements of Part 3 of the Civil Sociation Regulations. including Somendments 3-1 through 3-9, and 3-14.

Orioinal Product Type Esrtificate Number:

Model: * See Page 3

Description of Type Design Charge Installation of an electronic Digital Engine Tachometer, Horizon Model P-1000 in accordance with Horizon Master Drawing List No. P100075, Rev. N/C dated May 1, 1998, or later FAA approved revisions. Horizon Airplane Flight Manual Supplement No. 1 dated May 4, 1998, or later FAA approved revisions is required.

Limitations and Conditions. The approval of the change in type design applies to the basic airplane of the specified models that are otherwise unmodified. The installation should not be incorporated in any engines of these models unless it is determined that the interrelationship between this installation and any previously approved configuration will not introduce any adverse effect upon the airworthiness of the aircraft. The approval of this modification applies to the above noted airplane model series only. If the holder agrees to permit another person to use this certificate to alter the product, the holder shall give the other person written evidence of that permission.

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

Date of opplication. April 13, 1998

Dodo recivered: January 14, 2002

Date of issuance

May 4, 1998

Soviation Administrati

Date amended:

(Signature) Technical & Administrative Support Staff Los Angeles Aircraft Certification Office

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

United States Of America

Department of Transportation - Nederal Abiation Administration

Supplemental Type Certificate

(Continuation Sheet)

Number SA00621LA

•Models: (Continued)

Aircraft Model	Eligible Aircraft	Horizon Tachometer Part Number
PA-23	All serial numbers	P100075-001
PA-23	Aircraft modified per SA899SW	P100075-003
PA-23-160	All serial numbers	P100075-001
PA-23-160	Aircraft modifed per SA899SW	P100075-003
PA-23-235	All scrial numbers	P100075-002
PA-23-250	Serial numbers 27-3943 and earlier excluding 27-3837	P100075-002
PA-23-250	Serial numbers 27-3837, and 27-3944 and later	P100075-004
PA-E23-250	Serial numbers 27-3943 and earlier, excluding 27-3837	P100075-002
PA-E23-250	Serial numbers 27-3837, and 27-3944 and later	P100075-004

-END-

MAJOR REPAIR AND ALTERATION

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

Walter Mangon

6. Department Fransportation	(Airframe, Powerplant,	Propeller, or Appliance
teral Aviation		

of Transportation	(Airrame, Powerp	iant, Prope	eller, or	Appliand	;e)	Office Id	entification	l
Federal Aviation Administration							why	
instructions and d	Print or type all entries. See FAR lisposition of this form. This report r each such violation (Section 901	is required b	v law (49	U.S.C. 142	AC 43.9-1 (or subs 21). Failure to repo	equent rev ort can res	vision thereof) ult in a civil po	for enalty not to
1. Aircraft	Make Piper			Mode	el PA23-250 - 6PCLM			
	Serial No. 27-4480				nality and Registration	n Mark		
2. Owner	Name (As shown on registration certificate) John G Deaton) F	ess (As shown on reg P. O. Box 7007 Petaluma, CA 9495		ificate)	
		3. For	FAA Use	Only				
	4. Un	it Identificat	ion				5. T	уре
Unit	Make		Model		Serial No) .	Repair	Alteration
AIRFRAME	(A	s described i	in item 1 e	above)——		•		x
POWERPLANT	Lycoming	т	O-540-C1/	A	L-1532-6	31		X
PROPELLER								
APPLIANCE	Туре							
	Manufacturer]				•		
	Manadano	}			li .		i	
	- Manufacture	6. Confi	ormity St	atement			<u> </u>	
A. Agency's Na	me and Address	6. Confe		atement d of Agenc	у	C.	Certificate No	
Walter Mangon	me and Address		B. Kin				Certificate No	
Walter Mangon Petaluma Munici	ime and Address		B. Kin U.S. Cer Foreign	d of Agenc rtificated Mec Certificated N	hanic Nechanic			•
Walter Mangon	ime and Address pal Airport Drive		B. Kin U.S. Cer Foreign	d of Agenc rtificated Mec Certificated Met ted Repair St	hanic Nechanic			

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 13 of the U.S. Federal Aviation Regulations and that the

info	rmation furnished herein i	is true and correct to the	e dest/QT	my knowledge.		
Date 10/05/0	6			ure of Authorized Individual	yon)	Waiter Mangor
		7. Ap	proval 1	for Return To Service		
P tr	ursuant to the authority gine Administrator of the Fed	ven persons specified b	elow, th	e unit identified in item 4 was d is APPROVED	s inspected in the mar	nner prescribed by
BY	FAA Fit. Standards Inspector	Manufacturer	х	Inspection Authorization	Other (Specify)	
	FAA Designee	Repair Station		Person Approved by Transport Canada Airworthiness Group		
Date of	Approval or Rejection	Certificate or Designati	ion No.	Signature of Authorized	Individual	<u> </u>

1570369

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 addition	nal sheets. Identify with aircraft nationalit	ity and registration mark and date work comp	oleted.)
N13839	10/05	5/06	
Installation of One Piece Windshield and	I Forward Side Vented Windows:		
 Installation of Great Lakes Aero Products 01/05/82 One Piece Windshield, Pn. W/ Inst A8, P. 2, Items 1 through 14. 	ts, 2412 Davidson Road, Flint Michigan 48 /T-2080. Installed using Great Lakes Aero	8506, STC 585GL, dtd. o Products Installation Procedure	
 Installation of Great Lakes Aero Products 2/27/84, Lt Foward Side window WT208 Aero Products Installation Procedure A 	85 and Rt Forward Door Window WT2086	8506, STC 731GL, dtd. 6 . Installed using Great Lakes	
3. Continued Airworthines instructions rema security of istallation. Clean using mild of	ain as Piper PA23-250 Service Manual fo detergent and soft cotton cloth.	or inspection for condition and	
********	************** NOTHING FOLLOWS ****	**********	
	,	,	
·			
	!		
<i>/</i> ·×			
	Additional Sheets Are Attatched	d	

United States of America

Department of Transportation—Jederal Aviation Administration

Supplemental Type Certificate

Number SA585GL

This certificate, issued to Great Lakes Aero Products 2412 Davison Road Flint, Michigan 48506

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

therefor as specified hereon much the airworthiness requirements of Part 3

Atho Civil Air

Regulations (See T. C. Data Sheet No. 1A10 for complete certification basis..)

Original Product - Type Certificator Number: 1A10

Model: PA-23-250, PA-E23-250

Description of Type I raign Change: Installation of Great Lakes Aero Products windshield P/Ns W-2080, W/T-2080, and W/G-2080 in accordance with Great Lakes Aero Products Installation Instructions A-8, dated November 10, 1981 or later approved revisions.

Limitations and Conditions:

Compatibility of this modification with other previously approved modifications must be determined by the installer.

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

Date of application November 10, 1981

Sale ressued:

June 26, 1984

Tale of Sunner January 5, 1982

Sale unvended:

(Signature)

Manager, Chicago Aircraft Cert. Office, ACE-115C

Central Region

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

Department of Transportation — federal Ablation Administration

Supplemental Type Certificate

Number SA731GL

This consistents, assent to Great Lakes Aero Products 2412 Davison Road Flint, Michigan 48506

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

therefor as specified homen encels the airmobliness requirements of Part 3 of the Civil Air

Acquialisms (See Type Certificate Data Sheet 1A10 for complete certification basis.)

Obiginal Powled - Type Prolificate Number: 1A10

Madel: PA-23-250, S/N 27-2349 and up PA-E23-250, S/N 27-2349 and up

Installation of the Great Lakes Aero Products left hand forward side window (pilot's) part number M-2085, W/T-2085, W/G-2085, and/or right hand forward side window (door) part number W-2086, W/T-2086, or W/G-2086 as per instructions A-5, revised December, 1980 or later approved revisions.

Similations and Conditions

The compatibility of this modification with previously approved modifications must be determined by the installer.

This certificate and the supporting data which is the basis for approval shall remain in effect until surrendered, suspended, revoked, or a termination date is athornise astablished by the Administrate of the Tederal Streation Administration

Sate of application December 9, 1983

Sat minumal: June 26, 1984

Yak of www. February 27, 1984

Manager, Chicago Aircraft Cert. Office. ACE-115C

Central Region

1 1 161 Any alteration of this certificate is punishable by a fine of not exceeding \$1,000, or imprisonment not exceeding 3 years, or both

This certificate was be transferred in inconding with 5 18 71 a

FAA 400m S1 10-2 , 10-05,

BATTERY BOX + CABles

U.S. Department of Transportation	

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

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

Federal Aviation Administration

INSTRUCTIONS: Print or type all entries. See FAR 43.9, FAR 43 Appendix B, and AC 43.9-1 (or subsequent revision thereof) for instructions and disposition of this form. This report is required by law (49 U.S.C. 1421). Failure to report can result in a civil penalty not to exceed \$1,000 for each such violation (Section 901 Federal Aviation Act of 1958) Model 1. Aircraft PA23-250 - 6PCLM Piper Serial No. Nationality and Registration Mark 27-4480 N13839 Address (As shown on registration certificate) Name (As shown on registration certificate) 2. Owner John G Deaton P. O. Box 7007 Petaluma, CA 94955. 3. For FAA Use Only 5. Type 4. Unit Identification Alteration Serial No. Repair Make Model Unit X **AIRFRAME** (As described in item 1 above)-X L-1532-61 Lycoming TIO-540-C1A **POWERPLANT PROPELLER** Type **APPLIANCE** Manufacturer 6. Conformity Statement C. Certificate No. B. Kind of Agency A. Agency's Name and Address U.S. Certificated Mechanic 1570369 Walter Mangon Petaluma Municipal Airport Foreign Certificated Mechanic 501 Sky Ranch Drive Certificated Repair Station Petaluma, CA 94954-3908 Manufacturer D. I certify that the repair and/or alteration made to the unit(s) identified in item 4 above and described on the reverse or attachments hereto have been made in accordance with the requirements of Part 43 of the U.S. Federal Aviation Regulations and that the information furnished herein is true and correct to the best of my knowledge. Signature of Authorized Individual Date 10/05/06 Walter Mangon 7. Approval for Return To Service Pursuant to the authority given persons specified below, the unit identified in item 4 vas inspected in the manner prescribed by the Administrator of the Federal Aviation Administration and is APPROVED REJECTED Other (Specify) FAA Fit. Standards Inspection Authorization Manufacturer BY Inspector Person Approved by Transport Canada Airworthiness Group Repair Station **FAA Designee** Signature of Authorized Individua Date of Approval or Rejection Certificate or Designation No. alter Walter Mangon 1570369 10/05/06

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

	Description of Work Accomplished	
	(If more space is required, attach additional sheets. Identify with aircraft nationality and registration mark and date work complete	·d.)
N1	3839 10/05/06	
lr	stallation of Battery Box Modification and Copper Cables.	
1.	nstalled STC SA4008NM 08/17/87, Bogert Aviation, battery box modification in accordance with Bogert Aviation nstallation Instructions 1-1 dtd. 7/9/87, 1 through 19.	
	nstalled STC SA3531NM, 07/15/86, Bogert Aviation Copper Cable Assembies in accordance with Bogert Aviation nstallation Instructions 1 through 9 as listed on AML SA3531. Cables remove #1 Aluminum, replaced with #1 Copper Cables. Replacement of thes cable meet the requirements of Piper Service Bulliten 836A.	
3.	Continued Airworthines remain as per original, inspections for condition, security and proper routing.	j

	·	
	Additional Charle Are Attabahad	
	Additional Sheets Are Attatched	

United States of America

Department of Transportation—Federal Aviation Administration

Supplemental Type Certificate

. Number SA4008NM

This certificate, issued to Bogert Aviation

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

therefor as specified hereon meets the airworthiness requirements of Part

Regulations.

Original Product - Type Cortificate Number: * Make: *

- *See attached Master Eligibility List (MEL)
- Number SA4008NM for List of Approved Airplane Models and Applicable Airworthiness Regulations.
- Model: *

Description of Type Design Change:

Installation of removable panels on the battery box sides in accordance with Bogert Aviation Installation Instructions Number 1-1, revised July 9, 1987.

NOTE: This is compatible with STC SA3531NM.

Limitations and Conditions: Approval of this change in type design applies basically to the above model aircraft only. This approval should not be extended to other aircraft of this model on which other previously approved modifications are incorporated unless it is determined that the interrelationship between this change and any of those other previously approved modifications, including changes in type design, will introduce no adverse effect upon the airworthiness of that aircraft. A copy of this Certificate and Master Eligibility List (MEL) shall be maintained as part of the permanent records for the modified aircraft. This certificate and the supporting data which is the basis for approval shall remain in effect until sur-

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

Fedoral Aviation Administration.

Dato of application: May 23, 1986

Dulo reissued:

Dale of issuance August 17, 1987

Date amended:

By direction of the Administrator

Acting Manager, Seattle

Aircraft Certification Office

(Title)

This certificate may be transferred in accordance with FAR 21.47.

BOGERT AVIATION

FAA MASTER ELIGIBILITY LIST (MEL) SA4008NM

FOR

INSTALLATION OF BATTERY BOX REMOVABLE PANELS

Issue Date: Augus 😘

			ORIGINAL CERTIFICATION TYPE BASIS		D DRAWING	AFM	ME	
ITEM	AIRCRAFT MAKE	AIRCRAFT MODEL	CERTIFICATE NUMBER	FOR ALTERATION	NUMBER	REVISION NO. AND DATE	SUPPLEMENT NO. AND DATE	AMENE DA
1	PIPER	PA-23 SERIES	*1A10	Car 3 Dated 11/1/49, and Amendments 3-1 thru ated 12/15/52, and TCS 1A10.	<i>[</i> 1-1	7:/09/87	∜\$ A	
2	PIPER	PA-20-115/ -135, and PA-20S-115/ -135	1A4	CAR 3 and TCDS 1A4.	1-1	7/09/87	N/A	
3	PIPER	PA-22-108/ -135/-150/ -160/and PA -225-135/ -150/-160	1A6	CAR 3 Dated 11/1/49 and Amendments 3-1 thru 3-6 dated 6/4/51.	1-1	7/09/87	N/A	
4	PIPER	PA-24 SERIES	1A15	CAR 3 Dated 11/1/49 and Amendments 3-1 thru 3-12.	1-1	7/09/87	N/A	
5	PIPER	PA-28-140/ -150/-160/ -180 and PA-28R-180/ -200 and PA-28S-235	2A13	CAR 3 Dated 5/15/56 and Amendments as given in TCDS 2A13.	1-1	7/09/87	N/A	3/2:

Page 1 of 2

Issue Date: August 17,

							•	· •
·				CERTIFICATION		LED DRAWING/ WING LIST	AFM SUPPLEMENT NO. AND DATE	MI AMENI D
ITEM	AIRCRAFT MAKE	AIRCRAFT MODEL	TYPE CERTIFICATE NUMBER	BASIS FOR ALTERATION	NUMBER	REVISION NO. AND DATE		
6	PIPER	PA-25 SERIES	2A8	CAR 3 Dated 5/15/56 and Amendment 3-1 dated 4/1/57.	1-1	7/09/87	N/A	
7	PIPER	PA-30 and PA-39	Alea	CAR 3 Dated 5/15/56 thru Amendment 3-6 dated 9/13/61, and Par. 3.705(a) of Amendment 3-7 dated 5/3/62, and FAR 23.1557(e)(1) of Amendment 23-7 dated 9/14/69.	1-1	7/09/87	N/A	
8	PIPER	PA-32-260/ -300/-301/ and PA-32R- 300	A3S0	CAR 3 Dated 5/15/56	1-1	7/09/87	N/A	
9	PIPER	PA-18 SERIES	1A2	CAR 3 and TCDS 1A4.	1-1	2/12/90	N/A	3/2

FAA Approved: Manager, Seattle
Assistant Manager, Seattle
Aircraft Certification Office

Amendment Date: March 23, 1990

Page 2 of 2

United States of America

Department of Transportation—federal Aviation Administration

Supplemental Type Certificate

Number SA3531NM

BOGERT AVIATION Rt. 1 Box 1676 Prosser, WA 99350

This certificate issued to Bogert Aviation

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

theorefor as specified hereon meets the airworthiness requirements of Parl *

d'she

Regulations.

Original Product - Type Cortificate Number: *

*See attached FAA Approved Model List

Make: * Medel: * (AML) No. SA3531NM for list of approved airplane models and applicable

airworthiness regulations.

Description of Type Design Change: Installation of copper electrical cables in accordance with Bogert Aviation Installation Instructions as listed on AML No. SA3531NM, or later FAA approved revision.

Limitations and benditions: Approval of this change in type design applies to the above model aircraft only. This approval should not be extended to aircraft of this model c which other previously approved modifications are incorporated unless it is determined that the relationship between this change and any of those other previously approved modifications, including changes in type design, will introduce no adverse effect upor the airworthiness of that aircraft. A copy of this Certificate and FAA Approved Model List (AML) No. SA3531NM amended April 10, 1989, or later FAA approved revision, must be maintained as part of the permanent records for the modified aircraft. This certificate and the supporting data which is the basis for approval shall remain in effect until sur-

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

Federal Avialien Administration.

Giale of application: May 27, 1986

Late of issuance July 15, 1986

Sale ressued:

Tota amended April 10, 1989

By direction of the Administrator

Steward L' Macion

Acting Assistant Manager, Seattle Aircraft Certification Office

17 itle

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

FAA APPROVED HODEL LIST (AML) NO. SA3531WH

BOGERT AVIATION

FOR

INSTALLING COPPER ELECTRICAL CABLES

Issue Date: July 15, 1935 INSTALLATION INSTRUCTIONS ORIGINAL CERTIFICATION AFM ami TYPE BASIS AMENDMENT REVISION NO. SUPPLEMENT FOR AIRCRAFT AIRCRAFT CERTIFICATE AND DATE 9/20/86 DATE 9/29/85 ALTERATION CAR 3 dated 5/15/56 NUMBER NUMBER/DATE MAKE MODEL NUMBER ITEM N/A PA-31, PA-31-300, PA-31-325, PA-31-350 2-5 A2050 Piper thru Amendment 3-8 dated 12/18/62 & TCDS A2050. N/A 9/29/55 9/20/86 CAR 3 dated 5/15/56 2-5 ASEA 10 Piper PA-31P thru Amendment 3-8 dated 12/18/62 & TCDS ABEA. N/A 9/29/86 9/20/86 CAR 3 dated 5/15/56 2-7 ABEA PA-31T, & 11 Piper thru Amendment 3-8 PA31T1 dated 12/18/62 & TCDS ABEA. 9/20/86 N/A 9/29/85 PA-44-180, PA-44-180T FAR 23 dated 2/1/65 2-8 A1950 12 Piper thru Amendment 23-16 & TCDS A19SO. CAR 3 dated 11/1/49 there American 3-9 dated 127/17/38 & TCBS 1/16/87 PA-23-250, PA-323-250, PA-23 and PA-23-160 B/A 10/16/86 A110 2-11 Piper 13

Page 3 of 7

			ORIGINAL TYPE	CERTIFICATION BASIS		ALLATION RUCTIONS	AFM	AML
ITEM	AIRCRAFT MAKE	AIRCRAFT MODEL	CERTIFICATE NUMBER	FOR ALTERATION	NUMBER	REVISION NO. AND DATE	SUPPLEMENT NUMBER/DATE	AMENDMENT DATE
14	Piper	PA-38-112	A18S0	FAR 23 thru Amendment 23-16 dated 2/14/75, FAR 36 thru Amendment 36-7 plus equivalent safety finding made for FAR 23.1545(a).	2-6	10/16/86	H/A	11/20/85
15	Piper	PA-25 Series	2A8	CAR 3 dated 5/15/56, and Amendment 3-1.	2-12	05/27/87	n/a	07/16/87
16	Champion (Bellanca, Aeronca)	76СВС	A-759	CAR 4a as Amended to 4/7/50 except Para- graph 4a.532(m). FAR 23.25 and 23.959 dated 2/1/55 are included.	CH2-1	12/01/88	н/а	04/10/89
17		8E (SN 833 and up when con Luscombe Sen Letter of 8,	verted IAW rvice Dept.	CAR 4a and TCDS No. A-694 issued 8/11/38.	LU2-1	10/22/88	n/a	04/10/89

US Department of Transportation	TALL BUILDING	IR AND ALTERATION. Propeller, or Ap		1		120-0020 r FAA Use C	nly .
Federal Aviation	n	, с. горолог, с. гор		,	Office Iden	tification	
INSTRUCTI and disposit	ONS: Print or type all entries. See FAR ion of this form. This report is required th violation (Section 901 Federal Aviat	l by law (49 U.S.C. 1421). Fa	nd AC 43.9 illure to rep	9-1 (or subsequent or to can result	ient revision ti in a civil penal	nereof) for in ty not to exc	structions eed \$1,000
	Make Piper		Model	PA23-250)	· · · · · · · · · · · · · · · · · · ·	
1. Aircraft	Serial No. 27-4480	4.3 (<u></u>)	Nationali	ty and Registra N 13839	ation Mark		
	Name (As shown on registration cer	rtificate)	Address	(As shown on	registration co	rtificate)	
2. Owner	Deaton, John G.	in the second se		P.O. Box	163	S	\$
	Beaton, com a.				, CA 9548	7	* .
		3. For FAA Use Or	niy		* # · · ·	بادا الم	
	The regular regular confidence of the regular	data identified herein complies with itements and is approved for the above ormity inspection by a person authorized $0/28/94$	the applicable described aim	e Birworthiness craft, subject to ction 43.3		i de la secono 1 de la secono 1 de la secono	ianat Parata
1	Commence of the second second	DATE SIGNATURE	OAK-F	DO			· 3.
	ा व्यक्तिसंदि के केलक सम ्हर करने	4. Unit Identificati	on			5. Type	T
Unit	Make	Model		Serial	No.	Repair	Alteration
AIRFRAME		As described in Item 1 abov	/e)		• • • • • • • • • • • • • • • • • • •	ogić, si ši	××
POWERPLANT	The state of the s		de: AMU	omije k 1,1≯, dož	d_{x}^{-1}	, 19 00°1. •	
PROPELLER	chance within the course.	m (A. Markar I. (A. Markar) Like at benderal I. (A. Markar)	701494. -1:32.11	auch dei Da Zir L	ide veri di 1911 i esti	versió Mi nobleces.	100 d 10 100 d <u>11</u> 20
APPLIANCE	Type Manufacturer	ge engeleer BALE	เก๋ร์งกมระ	nios Inc.	idyz szek	beduni	•
		alama makan kacamatan di	العراق وياقد	Francisco I			<u> • • • • </u>
9 9	lame and Address	B. Kind of Agenc		<u> Tanaka amang atau</u>	C Certi	ficate Ńo.	
	Avionics, Inc.	U.S. Certificate			RS V	/K3R948L	
	kland Int'l Airport	Foreign Certific				Class 1,3 Class 1,	
D. I certify!	hat the repair and/or alteration made t	Manufacturer o the unit(s) identified in ite	m 4 above	and described	on the reerse	or attachme	nts hereto
have bee	n made in accordance with the required herein is true and correct to the bes	rements of Part 43 of the U.	S. Federal	Aviation Regu	liations and th	at the inforr	nation
Date /6-	28-94	Signature of Auth	orized Ind	jvidual			* .
	The state of the s	7. Approve for Refurn T	6 S vice				
Pursuant to	the authority given persons specified or of the Federal Aviation Administration	ed below, the unit identifie	d in item	4 was inspect	ed in the mar	ner prescrit	ed by the
	A Fit. Standards Manufacturer	Inspection Authoriz		Other (Spec	cily)		····

Person Approved by Transport Canada Airworthiness Group

Repair Station

Certificate or Designation No. WK3R948L

FAA Form 337 (12-88)

FAA Designee

Date of Approval or Rejection

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

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

Oct 25, 1994

Piper PA23-250

John G. Deaton

The existing 52 D54 Directional Gyro, KI-209 VOR/ ILS Indicator, KR-86 ADF Receiver, and KA-42B ADF Antenna were removed from this aircraft. E AR ALS RESIDEN

A Bendix/King KCS-55A Compass System with KG-102A Gyro, KI-525A HSI Indicator, KA-51B Slaving Accessory and KMT-112 Flux Valve, a KR-87 ADF Receiver, KA44B ADF Antenna, KH-229 RMH Indicator, KN-72 VOR Converter, KA-57 Autopilot Adapter, IIMorrow 428 0014 Altitude Alert Indicator, Comant CI 401-3KIC GPS Antenna, KA-33 Cooling Fan, and a Northern Airborne Technology RS08 switching relay and a Ground Clearance / Emergency Radio Master were installed in this aircraft.

This installation was conducted in accordance with Bendix/King Installation Manuals 006-00111-0005, 006-00184-0004, 006-00192-0002, 006-00142-0001,006-01069-0003, Northern Airborne Technology RSO8 Installation Manual Rev. 2.0, Ilmorrow ALTI_TRAK Installation Manual 560-4019A Rev1 Comant Installation Instructions A010001 Rev A, A010028, and within the guidelines set forth by FAA AC 34.13-1A chapter 11 and AC43.13-2A chapters 2 and 3.

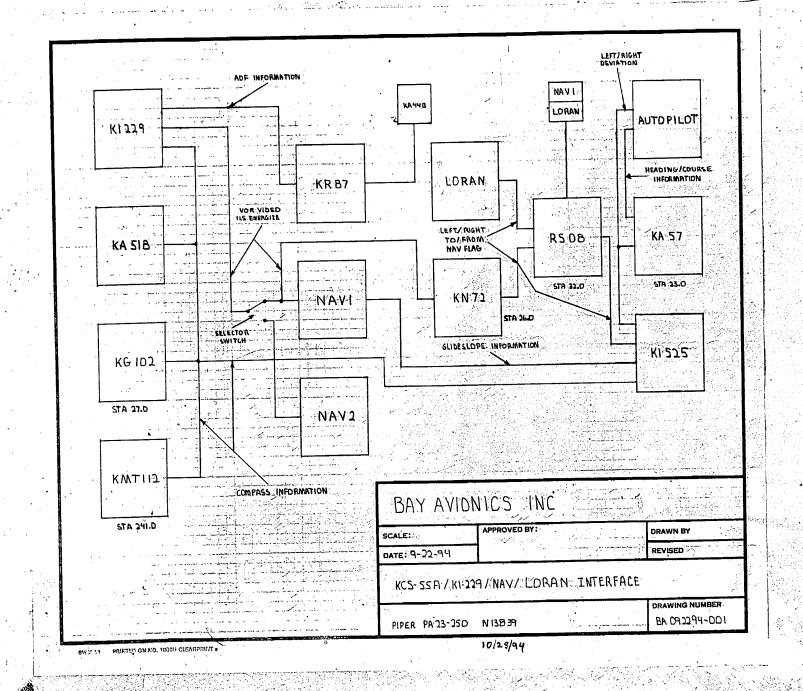
See attached Bay Avionics Inc. drawings number BA092294-001, BA092294-002, BA 090794-001, BA041993-01, BA092994-001 for detailed mounting and installation data. 18种独的市场 含用

The continuous electrical load does not exceed 80% of alternator capacity.

The aircraft Weight and Balance and Equipment List has been revised to reflect this change.

Additional Sheets Are Attached

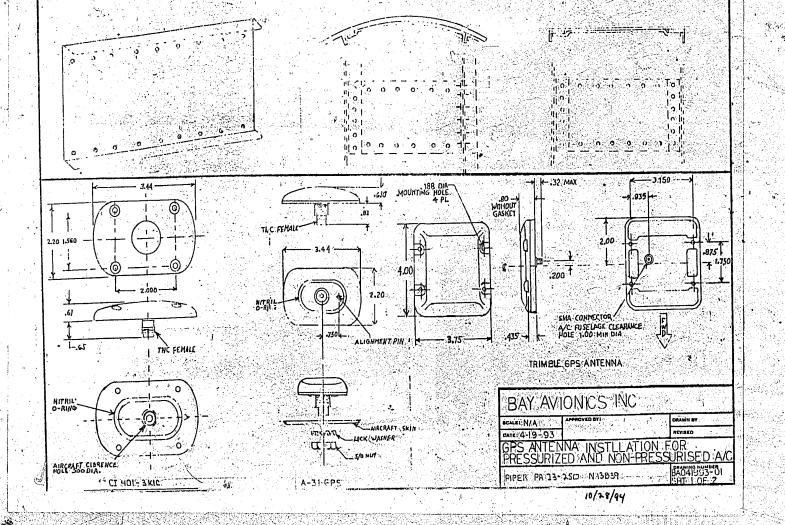
± U.S.GPO:1991-0-558-012/40035



The second secon	The second section is the second seco	ا جو الراج الراج المحكم الأخراج في المستهيد المستهيد المستهيد المستهيد المستهيد المستهيد المستهيد المستهيد الم المراكز المراكز المستعجب المستهيد المستهيد المستهيد المستهيد المستهيد المستهيد المستهيد المستهيد المستهيد المست	e et al angelo. La compete de la compete
		A second	i de la companya de La companya de la co
	والمستقرب مستعملاته متداني أرياد		
Ar was the second of the second			
ا المراجع المر المستغير المراجع المرا			
	KA SI B	AUDIO	
A/-5	(NAV) (ALT.) (NAV)	LDRAN	
		DWE	1
	STORM		
(clock) - (T+B	HSI- (-V/S) -SCOPE	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	
		NAV/COMM2	$\mid \cdot \mid \cdot$
and the second s			
	(FLAP) - RMI	TRANS PONDER)	
and the second s			ADF
in the state of th		OAT	
الله المواقع ا ومن المراقع المواقع ال	LODAN/NAV TRAN	Y ALEATER -	
		O SUD CLEAR ENCE	
والمراجع والمستحدث والمستحدث		AVIOURS GNO CLEAR ENCE MASTER AND ENERG MASTER	
ئىرىنى ئىرىن ئىرىنى ئىرىنى ئىرىن			
WIND	CHELD A STATE OF THE STATE OF T		
			45-4
0000	28 DOOR.		Standard an Italiand
CIRCUIT BREAKER PANEL		BAY AVIDNICS INC	
Chicara discharit times			
	and the state of t	CALE: APPROVED BY:	DRAWN BY
	الماري (الماري ما المواصوعية معالية مواد مستقدد ما كالمرار (الماري) . - الماري (الماري)	PP-CC-P :3TAC	REVISED
COMPASS RIAL ADF ALERT		On the state of th	
C O O O		PANEL LAYOUT	
			DRAWING NUMBER
•	the state of the s	BIGGS BALL	Lan na angri 000
	and a second to the control of the c	PIPER PA33-250 4 N13839	BH 043344-003

DATE: 12-22-94

AMERA NO.



A company of the comp		the second of th
		the second second second second second second second
ALTITUDE ALERTER	AUDIO	
	PANEL	
ALTITUDE INFORMATION	UNSWITCHED AUDIO INPUT	
ALTITUDE		•
ALTITUDE		
ALTITUDE		
ALTITUDE SERTALIZER	RIDV AVIOLIBRE LA	
ALTITUDE SERTALIZER	BAY AVIDNIICS INC	
ALTITUDE SERTALIZER	SCALE: APPROVED BY:	DRAWN BY
ALTITUDE SERTALIZER	SCALE: APPROVED BY: DATE: 9-29-94	DRAWN BY KEVISEO
ALTITUDE SERTALIZER	SCALE: APPROVED BY:	
ALTITUDE SERTALIZER	SCALE: APPROVED BY: DATE: 9-29-94	

DEPARTMENT OF TRANSPORTATION CONTROL OF CONT

FOR FAA USE ONLY

MAJOR REPAIR AND ALTERATION

for instructi	ons and disposition	of this form.			AR 43 Appendix B, and A				
	MAKE				MODEL		_	, 1 L.	
	PIPCR				PB 23	-250 SIX	place	<u> </u>	
AIRCRAFT	SERIAL NO.	. — —					RATION MA	RK .	
	27-448				N138				
	NAME (As shown a	n regist:ation certifica	te)	*.	ADDRESS (As	shown on regis	me w	eare) 4y	
. OWNER	DIXIE SERU	ices, Inc	7.0		DONTEL	CORA , FL	, 3208		
			3.	FOR	FAA USE ONLY				
					•		_		
		,			••				
	<u> </u>		. 1561	71516					TYPE
	· ·	4. UNI1	IDEN	HFIC				<u> </u>	ALTER
UNIT		AKE			WODEL	SERIAL	NO.	REPAIR	ATIO
					4 .		f.		ì i
URFRAME	***************************************	regeoscopéssosos (A	s desc	ribed	l in item 1 above)	••••	•		X
	 					*,			
OWERPLAN	т								
								ļ	\vdash
ROPELLER									
KOPELLER								<u> </u>	ļ
	TYPE					ļ		1	
APPLIANCE								1	
	MANUFACTURER		4	er Ç		=		1.	
	<u> </u>		6. (ONFO	RMITY STATEMENT				
Α.	AGENCY'S NAME	AND ADDRESS			B. KIND OF AGE			RTIFICATE	ΝО.
Postale	Q E: CARNER			$\boldsymbol{\chi}$	U.S. CERTIFICATED MECHANIC		A+P3135	86855	
	NTIAN ROL.				FOREIGN CERTIFICATED MECH		1		
ST. AUG	USTINE, FL 32	086	ļ		CERTIFICATED REPAIR STATION		1		-
					MANUFACTURER			· · · · · ·	
D. I certif	fy that the repair a nents hereto have b at the information f	nd/or alteration ma een made in accorda furnished herein is t	de to nce w rue an	the ith t id co	unit(s) identified in iten the requirements of Part errect to the best of my b	n 4 Lbove and 43 of the U.S. (nowledge.	described of Federal Avia	n the revition Reg	verse o
DATE					NATURE OF AUTHORIZED				
, D				1	1 Mari	-			
Lept	9,1991 .:		l	L	neld leave	<u> </u>	***		
					FOR RETURN TO SERVICE				: L 4
Pursuant t	o the authority give listrator of the Fede	en persons specified ral Aviation Adminis	below, tration	, the	unit identified in item 4	was inspected REJECTED	in the manr	er prescr	ioed b
F.	AA FLT. STANDARDS	MANUFACTURER	χ	INSF	ECTION AUTHORIZATION	OTHER (Specify)			
BY F	AA DESIGNEE	R PAIR STATION		OF:	ADIAN DEPARTMENT TRANSPORT INSPECTOR AIRCRAFT	,	nua co.,		
DATE OF A	PPROVAL OR	CERTIFICATE OR	o.	SIG	NATURE OF AUTHORIZE	D INDIVIDUAL	n observa		. 6.
	.00 /	1010-01055	#	10	mill leene				
Such	· 9 . /99 /	313586855I	.,,	X	read Course	,			(8320

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

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

INSTALLED MET-CO-AIRL INTEGRAL 246AL AUX. FUEL TANKS ON EACH WINE TIP, Check VALUES and PLUMBING IN ACCORDANCE with STE 1480 WE, DRAWING # 11055, SD 1018, AND SD 1025.

INSERTED FLIGHT MANUAL SUPPLEMENT IN FLIGHT MANUAL.

Raused EQUIPMENT LIST.

REVISED WEIGHT + BALANCE DATA NO CLECTRICAL LOAD CHANGE. 27.2007.00141.1 MANUELA DE LA LA CALIFORNIA CALIFORNIA DE LA CALIFORNIA ALL NO An interest and deposition to the face. The first of a party party of the same (Althrapae for an and any character Anglesia) The state of the second of the ADDITIONAL SHEETS ARE ATTACHED

Federal Aviation Agency

Supplemental Type Certificate

Number SA 1480 WE

This configurate, issued to Met-Co-Aire, P. O. Box 2216, Fullerton, California 92633

certifies that the change in the type design for the following product with the limitations and conditions therefor as specified hereon meets the nine orthings requirements of Bort 3 of the Entered Stockers Regulations, effective Nov. 1, 1949 with amendments 3-1 to 3-4 inclusive

Conginal Product - Type Contificator lumber 1A10

PA 23, PA 23-160, PA 23-235 and PA 23-250

Description of Type Design Change:

Installation of an integral 24 gal. aux. fuel tank in each wing tip of Piper Models PA 23 and PA 23-160 and 24 or 26 gal. aux. fuel tank in each wing tip of Piper Models PA 23-235 and PA 23-250 per FAA scaled Met-Co-Aire Drawing 11055

timitations and bonditions ;

See Attached .Page.

This cortificate and the supporting data which is the basis for approval shall remain in effect until surrendered, suspended, rowked, or a termination date is otherwise established by the Steministrator of the Tederal Striation Sigency.

Dala of application: November 17, 1966

Laterissued:

August 24, 1967

Late am nded: October 19, 1967

Acting Chief, Aircraft Engineering Division

By direction of the Administry lyte

Any alteration of this certificate is punishable by a fine of not exceeding 5: 900, or in prisonment not exceeding 3 years, or both.

FAA FORM 8110-2 (1-66)

his certifica: may be it insferred in accordance with FAR 21.47.

0052-657-6000

TMM

NAME (As shown on registration certificate) OIXIE SETZULES 3. FOR FAA USE ONLY 4. UNIT IDENTIFICATION 4. UNIT IDENTIFICATION STATE OPELLER OPELLER TYPE PRILANCE A. AGENCY'S NAME AND ADDRESS BRRG-GRY'S NAME AND ADDRESS CV. 24 OF MIT FOR SETZULORIS CONTROLLER BRANK CV. 24 OF MIT FOR SETZULORIS CONTROLLER BRANKE D. I certify that the repair and/or alteration made to the unit(s) identified by some of the U.S. Federal Aviation Regulators and that the information furnished herein is true and courset to the best of my knowledges and the the Administrator of the Federal Aviation Administratories and III (SAPPROVALE) PULSUART LEADER (SANIE) PULSUART LEADER (SANIE) PULSUART TO THE STATEMENT OF AUTHORIZED PRODVUDUAL PULSUART TO THE AUTHORIZED PROPRIED PRODVUDUAL PULSUART TO THE BUILDING ADMINISTRATION INTO THE SECULOR OF AUTHORIZED PRODVUDUAL PULSUART TO THE PEDERAL AVIATION ADMINISTRATION ADMINISTRATOR OF AUTHORIZED PRODVUDUAL PULSUART TO THE PEDERAL AVIATION ADMINISTRATION ADMINISTRATOR AND AUTHORIZED PRODVUDUAL PULSUART TO THE BUILDING SANIES AND ADMINISTRATOR AND AUTHORIZED PRODVUDUAL PULSUART TO THE PEDERAL AVIATION ADMINISTRATION AND AUTHORIZED PRODVUDUAL PULSUART TO THE PEDERAL AVIATION ADMINISTRATION AND AUTHORIZED PRODVUDUAL PULSUART TO THE PEDERAL AVIATION ADMINISTRATION AND AUTHORIZED PRODVUDUAL PULSUART TO THE PEDERAL PROPRIED PRODVUDUAL AND AUTHORIZED PRODVUDUAL PULSUART TO THE PEDERAL PROPRIED PRODVUDUAL AND AUTHORIZED PRODVUDUAL AND AUTHORIZED PRODVUDUAL AND AUTHORIZED PRODVUDUAL PROPRIED PRODVUDUAL PROPRIED PRODVUDUAL PROPRIED PRODVUDUAL PROPRIED PROPRIED PRODVUDUAL PROPRIED PRODVUDUAL PROPRIED PRODVUDUAL PROPRIED PR		· · · ·								
AARE AND ALTERATION (Airman, Powerplant, Propeller, 87 Appliance) (STRUCTIONS: Pintor cryps pell entries. SET RA 43.9, PAR 43 Appendix B, and AC 43.9-1 (or subsequent revision thereof) (Instructions and disposition of this form. AARE P. P. R. R. SET RA 43.9, PAR 43 Appendix B, and AC 43.9-1 (or subsequent revision thereof) (Instructions and disposition of this form. AARE P. P. R. R. R. SET RA 43.9, PAR 43 Appendix B, and AC 43.9-1 (or subsequent revision thereof) (Instructions and disposition of this form. AARE (As shown an registration certificate) (Instructions an registration make in the subsequent of the Part P. S. LOPE 3. FOR FAA USE ONLY 3. FOR FAA USE ONLY (Instructions and Application certificate) (Instructions and Application and App						ra	Form A Budget	pproved Bureau No.	04-R060.	1
MAJOR REPAIR AND ALTERATION (Airfrems, Powerplant, Propeller, 87 Appliance) STRUCTIONS: Print or type all entries. SETAR 43.9, PAR 43 Appendix B, and AC 43.9-1 (or subsequent revision thereof) instructions and disposition of this form. MARE MARE MARE P. P. L. NAME (As shown on registration conflictual) OIXIE SETALUTES 3. FOR FAA US ONLY ADDRESS (As shown on registration certificate) OIXIE SETALUTES 3. FOR FAA US ONLY 4. UNIT IDENTIFICATION ADDRESS (As shown on registration certificate) INT C. P.			and the second s		/	·	F	OR FAA U	SE ONLY	
SETALUCTIONS: Print or type all entries. SETAR 43.9, PAR 43 Appendix B, and AC 43.9-1 (or subsequent revision thereof) instructions and disposition of this form. MARE NAME NAME NAME NAME (As shown an registration certificate) OIX IF SETALUCTION ONAME (As shown an registration certificate) OIX IF SETALUCTION ADDRESS (as shown as registration certificate) INCLUST ADDRESS (as shown as registration certificate) INCLUST ADDRESS (as shown as registration certificate) INCLUST INCLUST ADDRESS (as shown as registration certificate) INCLUST INCLUST ADDRESS (as shown as registration certificate) INCLUST INCLUSION INCLUST INCLUSION INCLUST INCLUSION INCLUST INCLUSION INCLUST INCLUSION INCLUSION INCLUSION INCLUSION INCLUS		MAJOR	REPAIR AND	ALTE	RATION					
MARE MARE P. P		(Airframe, Pov	werplant, Pro	peller,	8t Abblian	ce)	1 1			
MAKE Para Model Para Para Model Para	STRUCT	IONS: Print or type one and disposition of	all entries. See P of this form.	AR 43.9	, FAR 43 Appe		C 43.9-1 (or su	predeut te	ryision the	reot)
SERIAL NO. 27 - 4480. NATIONALITY AND REGISTRATION MARK NAME (As shown on registration entificate) OIXIE SETZUCES TOTAL CELLAGE WATE POINTE USTORE THE SETZUCES S. FOR FAA USE ONLY 1. UNIT IDENTIFICATION 4. UNIT IDENTIFICATION S. TYPE SERIAL HO. SETZUCES S. FOR FAA USE ONLY A. AGENCY SNAME AND ADDRESS A. AGENCY SNAME AND ADDRESS BRAGE HUNTON ELECTROPICS CARAJORA STATEMENT CARAJORAL FOR ESTIMATION ELECTROPICS CARAJORA STATEMENT D. I. CERTIFICATE MECHANIC CARAJORAL FOR ESTIMATION ELECTROPICS CARAJORA STATEMENT D. I. CERTIFICATE MECHANIC CARAJORAL FOR ESTIMATION ELECTROPICS CARAJORA STATEMENT THAN THE STATEMENT STATEMENT D. I. CERTIFICATE MECHANIC CARAJORAL FOR ESTIMATION ELECTROPICS CARAJORAL STATEMENT STATEMENT THAN THE STATEMENT STATEMENT WAS ADDRESS D. I. CERTIFICATE MECHANIC CARAJORAL FOR ESTURBER TO SERVICE STATEMENT STATEMENT STATEMENT WAS ADDRESS ON THE STATEMENT OF SERVICE STATEMENT					:		PAZ	3-2	50.	
NAME (As shown an registration cartificate) OIXIE SETZULCES 3. FOR FAA USE ONLY 4. UNIT IDENTIFICATION S. TYPE AARE 4. UNIT IDENTIFICATION S. TYPE SETZULCES 3. FOR FAA USE ONLY 4. UNIT IDENTIFICATION S. TYPE SETZULCES AARE 4. UNIT IDENTIFICATION S. TYPE SETZULCES AARE AARE 4. UNIT IDENTIFICATION S. TYPE SETZULCES AARE AARE 4. UNIT IDENTIFICATION S. TYPE SETZULCES AARE AARE 4. UNIT IDENTIFICATION S. TYPE AARE	AIRCRAFT			<u> </u>		l k	J 1 38.7	9		; ;-
TYPE A. AGENCY'S NAME AND ADDRESS BRAGE ON INTERMITY STATEMENT A. AGENCY'S NAME AND ADDRESS BRAGE ON INTERMITY STATEMENT A. AGENCY'S NAME AND ADDRESS BRAGE ON INTERMITY STATEMENT A. AGENCY'S NAME AND ADDRESS BRAGE ON INTERMITY STATEMENT A. AGENCY'S NAME AND ADDRESS BRAGE ON INTERMITY STATEMENT A. AGENCY'S NAME AND ADDRESS BRAGE ON INTERMITY STATEMENT						ADDRESS /A.	dame on majet	ation certific	cate)	ine
UNIT MARE NOODE SERIAL NO. SETAME ATTENDED OPELLER A. AGENCY'S NAME AND ADDRESS B. KIND OF AGENCY POWERPLANT A. AGENCY'S NAME AND ADDRESS B. KIND OF AGENCY CVCRID- VITON SUSTITION IS CVCRID- VITON SUSTITION IS CVCRID- VITON SUSTITION IS LANGUACTURER D. I certify that the repair and/or alteration made to the anit(a) identified in tiem 4 shows and differented and the information furnished been is true and correct to the best of my knowledge. ATE SIGNATURE OF AUTHORIZED INDIVIDUAL T. APPROVAL FOR RETURN TO SERVICE PURSUANT to the authority given persons specified below, the unit identified in internal accounting the information furnished been is true and correct to the best of my knowledge. T. APPROVAL FOR RETURN TO SERVICE PURSUANT to the authority given persons specified below, the unit identified in internal accounting the properties of the reconstruction and in SAPPROVED REJECTION T. APPROVAL FOR RETURN TO SERVICE PURSUANT TO TRANSPORT REPORTED TO TRANSPORT REPORTED OTHER (Section) SIGNATURE OF AUTHORIZED INDIVIDUAL DESIGNATION NO. SIGNATURE OF AUTHORIZED INDIVIDUAL	OWNER				. د	PON	TE UEDA	A FL	. 320	2 <u>8</u>
A AGENCY'S NAME AND ADDRESS BRAGE NUMERIANT A AGENCY'S NAME AND ADDRESS BRAGE NUMERIANT STATEMENT A AGENCY'S NAME AND ADDRESS BRAGE NUMERIANT STATEMENT A AGENCY'S NAME AND ADDRESS BRAGE NUMERIAN STATEMENT A CERTIFICATE NO. CERTIFICATE				3. F	OR FAA USE OF	ILY			7-	
DESIGNATION OF APPROVAL OR DESIGNATION NO: PAR RATE AND APER AND ADDRESS A AGENCY'S NAME AND ADDRESS BRAGG RV IN TON ELECTRONICS FOREIGN MEMORIATION AND ADDRESS D. L CERTIFICATE MECHANIC CONTRIBUTION OF AGENCY CONTRIBUTION OF AUTHORISED MECHANIC CONTRIBUTION OF AUTHORISED MECHANIC CONTRIBUTION OF AUTHORISED INDIVIDUAL ATE PUTSUANT to the authority given persons specified below, the unit identified in item 4 was inspected in the manner prescribed by Administrator of the Pederal Aviation Administration and is SAPPROVED REJECTED TAA RT. STANDARDS MANUFACTURES MERSHOT MERSHOT MERSHOT OF AUTHORIZED INDIVIDUAL PART OF APPROVAL OR CERTIFICATE OR SEGNATURE OF AUTHORIZED INDIVIDUAL PART OF APPROVAL OR CERTIFICATE OR SEGNATURE OF AUTHORIZED INDIVIDUAL DESIGNATION NO:					•		v .		*	
DESIGNATION OF APPROVAL OR DESIGNATION NO: PAR RATE AND APER AND ADDRESS A AGENCY'S NAME AND ADDRESS BRAGG RV IN TON ELECTRONICS FOREIGN MEMORIATION AND ADDRESS D. L CERTIFICATE MECHANIC CONTRIBUTION OF AGENCY CONTRIBUTION OF AUTHORISED MECHANIC CONTRIBUTION OF AUTHORISED MECHANIC CONTRIBUTION OF AUTHORISED INDIVIDUAL ATE PUTSUANT to the authority given persons specified below, the unit identified in item 4 was inspected in the manner prescribed by Administrator of the Pederal Aviation Administration and is SAPPROVED REJECTED TAA RT. STANDARDS MANUFACTURES MERSHOT MERSHOT MERSHOT OF AUTHORIZED INDIVIDUAL PART OF APPROVAL OR CERTIFICATE OR SEGNATURE OF AUTHORIZED INDIVIDUAL PART OF APPROVAL OR CERTIFICATE OR SEGNATURE OF AUTHORIZED INDIVIDUAL DESIGNATION NO:										
DESIGNATION OF APPROVAL OR DESIGNATION NO: PAR RATE AND APER AND ADDRESS A AGENCY'S NAME AND ADDRESS BRAGG RV IN TON ELECTRONICS FOREIGN MEMORIATION AND ADDRESS D. L CERTIFICATE MECHANIC CONTRIBUTION OF AGENCY CONTRIBUTION OF AUTHORISED MECHANIC CONTRIBUTION OF AUTHORISED MECHANIC CONTRIBUTION OF AUTHORISED INDIVIDUAL ATE PUTSUANT to the authority given persons specified below, the unit identified in item 4 was inspected in the manner prescribed by Administrator of the Pederal Aviation Administration and is SAPPROVED REJECTED TAA RT. STANDARDS MANUFACTURES MERSHOT MERSHOT MERSHOT OF AUTHORIZED INDIVIDUAL PART OF APPROVAL OR CERTIFICATE OR SEGNATURE OF AUTHORIZED INDIVIDUAL PART OF APPROVAL OR CERTIFICATE OR SEGNATURE OF AUTHORIZED INDIVIDUAL DESIGNATION NO:		•					• •			•
A. AGENCY'S NAME AND ADDRESS BYTH A. AGENCY'S NAME AND ADDRESS BRAGG RIVETION ELECTRONICS CVC R1 O HIR FORT D. I certify that the repair and/or alteration made to the unit(s) identified in tiem 4 above and discribed on the reverse and that the information furnished berein is true and covered to the best of my knowledge. ATE PURSUANT OF AUTHORIZED INDIVIDUAL PURSUANT OF AUTHORIZED INDIVIDUAL PURSUANT OF AUTHORIZED INDIVIDUAL PURSUANT OF AUTHORIZED INDIVIDUAL PARTICION AND PROVAL FOR RETURN /O SERVICE PURSUANT OF AUTHORIZED INDIVIDUAL PURSUANT OF AUTHORIZED INDIVIDUAL PURSUANT OF AUTHORIZED INDIVIDUAL PURSUANT OF APPROVAL OR CERTIFICATE OR DESIGNATURE OF AUTHORIZED INDIVIDUAL PARTICION PARTICION PARTICION CERTIFICATE NO. CERTIFICATE OR DESIGNATURE OF AUTHORIZED INDIVIDUAL CERTIFICATE NO. CERTIFICATE OR DESIGNATURE OF AUTHORIZED INDIVIDUAL			4. UN	IT IDENT	IFICATION .				5. T	YPE
DEFICIENT A. AGENCY'S NAME AND ADDRESS B. KIND OF AGENCY C. CERTIFICATE NO. BRAGGRY'S NAME AND ADDRESS B. KIND OF AGENCY C. CERTIFICATE NO. BRAGGRY'S NAME AND ADDRESS U.S. CERTIFICATE MECHANIC FOREION CERTIFICATE MECHANIC CVERIO AT ROAT CERTIFICATE SEPAIR STATION D. I certify that the repair and/or alteration made to the unit(a) identified in item 4 shove and described on the reverse castachments hereto have been made in accordance with the requirements of Part 43 of the U.S. Federal Aviation Regulation and the information furnished herein is true and correct to the best of my knowledge. ATE SIGNATURE OF AUTHORIZED INDIVIDUAL 7. APPROVAL FOR RETURN 70 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 Rederal Aviation Administration and is APPROVED REJECTED PLAA PLI. STANDARDS MANUFACTURER SERVICE REPORTED INDIVIDUAL PLAA PLI. STANDARDS MANUFACTURER SERVICE REPORT RESPECTOR OF ARCHANGE SERVICE REPORT RESPECTOR OF ARCHANGE SERVICE INDIVIDUAL DESIGNATION NO. SIGNATURE OF AUTHORIZED INDIVIDUAL REPORT RESPECTOR OF ARCHANGE SERVICE INDIVIDUAL REPORT SERVICE INDIVIDUAL REPOR	UMIT	****	di .		MODEL		CORIAL P	ю.	MEPAIR	ALTER
OPELLER A AGENCY'S NAME AND ADDRESS BRAGG RUBTION ELECTRONICS CVERIO AT ROLL TAX FL 3222 MANUFACTURER D. I certify that the repair and/or alteration made to the unit(a) identified in siem 4 above and described on the reverse catachments hereto have been made in accordance with the requirements of Part 43 of the U.S. Federal Aviation Regulation and that the information furnished herein is true and correct to the best of my knowledge. ATE SIGNATURE OF AUTHORIZED INDIVIDUAL 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 Administrator of the Federal Aviation Administration and is SAPPROVED REJECTED AAA ARI STANDARDS MANUFACTURE PAA ARI STANDARDS MANUFACTURE PAA PROVAL OR CERTIFICATE OR CANADIAN DEPARTMENT OF TRANSPORT INSPECTOR PAA DESIGNATION NO. CERTIFICATE OR DESIGNATURE OF AUTHORIZED INDIVIDUAL SIGNATURE OF APPROVAL OR CERTIFICATE OR DESIGNATURE OF AUTHORIZED INDIVIDUAL SIGNATURE OF APPROVAL OR CERTIFICATE OR DESIGNATION NO. EJECTION SIGNATURE OF APPROVAL OR CERTIFICATE OR DESIGNATION NO. SIGNATURE OF APPROVAL OR CERTIFICATE OR DESIGNATION NO. SIGNATURE OF AUTHORIZED INDIVIDUAL	DEDA ME			As descr	ibed in item 1 o	bave) sessesses	•••••	•		×
OPELLER TYPE A. AGENCY'S NAME AND ADDRESS B. KIND OF AGENCY BRAGG RV 19 TION ELECTRONICS BRAGG RV 19 TION ELECTRONICS CV. 41 O AT R POLT CULTIVATION CU	*		£							
A AGENCY'S NAME AND ADDRESS B. KIND OF AGENCY C. CERTIFICATE NO. BRAGE RULD TION ELECTRONICS BRAGE RULD TION ELECTRONICS CRAIG AIR PORT CRAIG AIR PORT D. I certify that the repair and/or alteration made to the unit(a) identified in item 4 above and described on the reverse carachments hereto have been made in accordance with the requirements of Part 43 of the U.S. Federal Aviation Regulation and that the information furnished herein is true and correct to the best of my knowledge. ATE 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 Pederal Aviation Administration and is SAPPROVED REJECTED 7. APPROVAL FOR RETURN 70 SERVICE Pursuant to the authority given persons specified below, the unit identified in item 4 was inspected in the manner prescribed by MSPRCTOR PART STANDARDS MAPERACTURES INDIVIDUAL TAA RI, STANDARDS MAPERACTURES INDIVIDUAL OTHER (Reseth) PART OF APPROVAL OR CERTIFICATE OR DESIGNATION NO. SIGNATURE OF AUTHORIZED INDIVIDUAL SIGNATURE OF AUTHORIZED INDIVIDUAL SIGNATURE OF AUTHORIZED INDIVIDUAL OTHER (Reseth) SIGNATURE OF AUTHORIZED INDIVIDUAL SIGNATURE OF AUTHORIZED INDIVIDUAL	WERPLAN	п		ľ		ŀ	in the		1	
A AGENCY'S NAME AND ADDRESS B. KIND OF AGENCY C. CERTIFICATE NO. BRAGE RULD TION ELECTRONICS BRAGE RULD TION ELECTRONICS CRAIG AIR PORT CRAIG AIR PORT D. I certify that the repair and/or alteration made to the unit(a) identified in item 4 above and described on the reverse carachments hereto have been made in accordance with the requirements of Part 43 of the U.S. Federal Aviation Regulation and that the information furnished herein is true and correct to the best of my knowledge. ATE 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 Pederal Aviation Administration and is SAPPROVED REJECTED 7. APPROVAL FOR RETURN 70 SERVICE Pursuant to the authority given persons specified below, the unit identified in item 4 was inspected in the manner prescribed by MSPRCTOR PART STANDARDS MAPERACTURES INDIVIDUAL TAA RI, STANDARDS MAPERACTURES INDIVIDUAL OTHER (Reseth) PART OF APPROVAL OR CERTIFICATE OR DESIGNATION NO. SIGNATURE OF AUTHORIZED INDIVIDUAL SIGNATURE OF AUTHORIZED INDIVIDUAL SIGNATURE OF AUTHORIZED INDIVIDUAL OTHER (Reseth) SIGNATURE OF AUTHORIZED INDIVIDUAL SIGNATURE OF AUTHORIZED INDIVIDUAL									 • 	
A. AGENCY'S NAME AND ADDRESS B. KIND OF AGENCY C. CERTIFICATE NO. BRAGG TIVINTION ELECTRONICS CVENTO AT REPORT CVENTO AT RETURN TO SEPARE STATION D. I certify that the repair and/or alteration made to the unit(a) identified in item 4 above and described on the reverse contact the information furnished herein is true and correct to the best of my knowledge. 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 Pederal Aviation Administration and is SAPPROVED REJECTED 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 Pederal Aviation Administration and is SAPPROVED REJECTED 7. APPROVAL FOR RETURN TO SERVICE OTHER (Sewilly) PLAN FIT. STANDARDS MANUFACTURES REPAIR STATION OF AMERICANT RESPECTOR OTHER (Sewilly) PARE OF APPROVAL OR CERTIFICATE OR DESIGNATION NO: DESIGNATION OF AMERICANT OTHER (Sewilly) SIGNATURE OF AUTHORIZED INDIVIDUAL DESIGNATION NO: SIGNATURE OF AUTHORIZED INDIVIDUAL	OPELLER							·	-	
6. CONFORMETY STATEMENT A. AGENCY'S NAME AND ADDRESS B. KIND OF AGENCY C. CERTIFICATE NO. BRAGE FIVATION ELECTRONICS CRAJE AIR PORT CRAJE AIR PORT CERTIFICATED MECHANIC LUVIRSUS CURTIFICATED MECHANIC CRAJE AIR PORT CERTIFICATED REPAIR STATION MANUFACTURER D. I certify that the repair and/or alteration made to the unit(s) identified in item 4 above and described on the reverse of attachments hereto have been made in accordance with the requirements of Part 43 of the U.S. Federal Aviation Regulation and that the information furnished herein is true and correct to the best of my knowledge. ATE SIGNATURE OF AUTHORIZED INDIVIDUAL T. APPROVAL FOR RETURN TO ERVICE 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 Pederal Aviation Administration and is APPROVED REJECTED PAA PLT. STANDARDS MANUFACTURER INSPECTION AUTHORIZATION PAA PLT. STANDARDS MANUFACTURER INSPECTOR OF TRANSPORT RESPECTOR OF TRANSPORT RESPECTOR OF TRANSPORT RESPECTOR DESIGNATION OF SIGNATURE OF AUTHORIZED INDIVIDUAL DESIGNATION NO.	/ 	TYPE			 					
A. AGENCY'S NAME AND ADDRESS B. KIND OF AGENCY C. CERTIFICATE NO. BRAGE HVINTION SLECTRONICS LOSS SERVICES BECHANIC FOREIGN CERTIFICATED MECHANIC FOREIGN CERTIFICATED MECHANIC LOSS SERVICES FOREIGN CERTIFICATED MECHANIC LOSS SERVICES FOREIGN CERTIFICATED MECHANIC LOSS SERVICES FOREIGN STATION MANUFACTURER D. I certify that the repair and/or alteration made to the unit(s) identified in item 4 above and described on the reverse catachments hereto have been made in accordance with the requirements of Part 43 of the U.S. Federal Aviation Regulation and that the information furnished herein is true and correct to the best of my knowledge. ATE SIGNATURE OF AUTHORIZED INDIVIDUAL T. APPROVAL FOR RETURN TO SERVICE PURSUANT TO THE PEDERAL AVIATION Administration and is APPROVED REJECTED PAAP RI. STANDARDS MARGACTURER INSPECTOR OF TRANSPORT INSPECTOR PAAP RI. STANDARDS MARGACTURER INSPECTOR OF TRANSPORT INSPECTOR OF TRANSPORT INSPECTOR DESIGNATION OF AMERICATY SIGNATURE OF AUTHORIZED INDIVIDUAL OTHER (Specify) AND THE CONTROL OF TRANSPORT INSPECTOR OF AUTHORIZED INDIVIDUAL STATE OF APPROVAL OR DESIGNATION NO: DESIGNATION NO:	PPLIANCE	MANUFACTURER	-	1 `					` · ·	
A. AGENCY'S NAME AND ADDRESS B. KIND OF AGENCY C. CERTIFICATE NO. BRAGE HVINTION SLECTRONICS LOSS SERVICES BECHANIC FOREIGN CERTIFICATED MECHANIC FOREIGN CERTIFICATED MECHANIC LOSS SERVICES FOREIGN CERTIFICATED MECHANIC LOSS SERVICES FOREIGN CERTIFICATED MECHANIC LOSS SERVICES FOREIGN STATION MANUFACTURER D. I certify that the repair and/or alteration made to the unit(s) identified in item 4 above and described on the reverse catachments hereto have been made in accordance with the requirements of Part 43 of the U.S. Federal Aviation Regulation and that the information furnished herein is true and correct to the best of my knowledge. ATE SIGNATURE OF AUTHORIZED INDIVIDUAL T. APPROVAL FOR RETURN TO SERVICE PURSUANT TO THE PEDERAL AVIATION Administration and is APPROVED REJECTED PAAP RI. STANDARDS MARGACTURER INSPECTOR OF TRANSPORT INSPECTOR PAAP RI. STANDARDS MARGACTURER INSPECTOR OF TRANSPORT INSPECTOR OF TRANSPORT INSPECTOR DESIGNATION OF AMERICATY SIGNATURE OF AUTHORIZED INDIVIDUAL OTHER (Specify) AND THE CONTROL OF TRANSPORT INSPECTOR OF AUTHORIZED INDIVIDUAL STATE OF APPROVAL OR DESIGNATION NO: DESIGNATION NO:	•			4 51	DECREMENTY STAT	EMENT				
BRAGE FILINTION ELECTRONICS CREATO ATR PORTS CREATO ATR PORTS CREATO ATR PORTS CREATO ATR PORTS CREATOR ATR PORTS CREATOR ATR PORTS CREATOR ATR MANUFACTURER D. 1 certify that the repair and/or alteration made to the unit(a) identified in item 4 above and described on the reverse catachments hereto have been made in accordance with the requirements of Part 43 of the U.S. Federal Aviation Regulation and that the information furnished herein is true and correct to the best of my knowledge. ATE SIGNATURE OF AUTHORIZED INDIVIDUAL 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 PAA FIT. STANDARDS MARGACTURER INSPECTOR OF RANGEOUS INSPECTOR PAA FIT. STANDARDS MARGACTURER INSPECTOR OF RANGEOUS INSPECTOR OF RANGEOUS INSPECTOR OF RANGEOUS INSPECTOR OF APPROVAL OR DESIGNATION NO: DESIGNATION NO: SIGNATURE OF AUTHORIZED INDIVIDUAL										NO.
D. I certify that the repair and/or alteration made to the unit(s) identified in item 4 above and described on the reverse catachments hereto have been made in accordance with the requirements of Part 43 of the U.S. Federal Aviation Regulation and that the information furnished herein is true and correct to the best of my knowledge. ATE SIGNATURE OF AUTHORIZED INDIVIDUAL 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 PAA FIT. STANDARDS MARGIFACTURER INSPECTOR OF RANGEOUS INSPECTOR PAA PLT. STANDARDS MARGIFACTURER INSPECTOR OF RANGEOUS INSPECTOR OF RANGEOUS INSPECTOR OF RANGEOUS INSPECTOR OF APPROVAL OR DESIGNATION NO: SIGNATURE OF AUTHORIZED INDIVIDUAL	· ·	AGENCY'S NAME	AND ADDRESS	$\overline{}$				C. CE	RTIFICATE	
D. I certify that the repair and/or alteration made to the unit(a) identified in item 4 above and described on the reverse cattachments hereto have been made in accordance with the requirements of Part 43 of the U.S. Federal Aviation Regulation and that the information furnished herein is true and correct to the best of my knowledge. ATE SIGNATURE OF AUTHORIZED INDIVIDUAL 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 PAA FIT. STANDARDS MARGIFACTURER INSPECTOR OF RANGEOUS INSPECTOR PAA PET. STANDARDS MARGIFACTURER INSPECTOR OF RANGEOUS INSPECTOR OF RANGEOUS INSPECTOR OF RANGEOUS INSPECTOR OF APPROVAL OR DESIGNATION NO. SIGNATURE OF AUTHORIZED INDIVIDUAL				NIES	U.B. CERTIFI	ATED MECHANIC				
D. I certify that the repair and/or alteration made to the unit(a) identified in item 4 above and described on the reverse of strachments hereto have been made in accordance with the requirements of Part 43 of the U.S. Federal Aviation Regulation and that the information furnished herein is true and correct to the best of my knowledge. ATE SIGNATURE OF AUDIORIZED INDIVIDUAL 7. APPROVAL FOR RETURN 10 ERVICE 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 Pederal Aviation Administration and is APPROVED REJECTED PAA FIT. STANDARDS MARGACTURER INSPECTOR FAA DESIGNEE REPAIR STATION OF TRANSPORT INSPECTOR OF TRANSPORT INSPECTOR DESIGNATION OF TRANSPORT INSPECTOR DESIGNATION OF SIGNATURE OF AUTHORIZED INDIVIDUAL SIGNATURE OF AUTHORIZED INDIVIDUAL				NIES	U.B. CERTIFI	TIPICATED MECHA	MIC			K
T. APPROVAL FOR RETURN 70 SERVICE 7. APPROVAL FOR RETURN 70 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 PAA PLT. STANDARDS MANAGEMENT NAME AUTHORIZATION PAA PLT. STANDARDS MANAGEMENT OF TRANSPORT RESPECTOR OF TRANSPORT RESPECTOR OF TRANSPORT RESPECTOR OF APPROVAL OR DESIGNATION NO. SIGNATURE OF AUTHORIZED INDIVIDUAL DESIGNATURE OF AUTHORIZED INDIVIDUAL	BRA	GG AVIATION CRAIG	AIR PORT	NIES	U.B. CERTIFIC FOREIGN CE CERTIFICATES	CATED MECHANIC STIFICATED MECHA REPAIR STATION	MIC			K
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 be the Administrator of the Pederal Aviation Administration and is APPROVED REJECTED PAA FIT. STANDARDS MARKFACTURER NESPECTOR HISPECTOR FAA DESIGNEE REPAIR STATION CANADIAN DEPARTMENT OF TRANSPORT INSPECTOR OF ARRONATION TO TRANSPORT INSPECTOR OF ARRONATION OF ANTICAL CORDESIGNATION NO. DESIGNATION OF AUTHORIZED INDIVIDUAL	BRA	GG AVIATION CRAIG	SIECTRO AIRPORT	- t	U.B. CERTIFI POREIGN CE CERTIFICATES MANUFACTU	CATED MECHANIC STIFICATED MECHA PREPAIR STATION	MIC	UVIR	2546	
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 PLT. STANDARDS MANUFACTURER INSPECTION AUTHORIZATION FAA DESIGNEE REPAIR STATION CANADIAN DEPARTMENT OF TRANSPORT PASPECTOR OF TRANSPORT PASPECTOR OF AMERICAN DESIGNATION NO. SIGNATURE OF AUTHORIZED INDIVIDUAL DESIGNATION NO.	BRA D. 1 certi	GG AVIATION CRAIG	SIECTRO AIRPORT	- t	PORTION CE PORTION CE CERTIFICATE MANUFACTU the unit(a) ide ith the require d correct to th	ATED MECHANIC BIFICATED MECHA D REPAIR STATION BER Intified in item Trents of Part 4 e best of my k	4 above and 3 of the U.S. nowledge.	UVIR	2546	
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 Pederal Aviation Administration and is APPROVED REJECTED PAR PLT. STANDARDS MANEURACTURER INSPECTION AUTHORIZATION OTHER (Specify)	BRA D. 1 certi	GG AVINTION CVZ 14 16 14 X FL Iffy that the repair an ments hereto have be not the information for	SLECTRO AIR PORT 3 2223 Id/or alteration n en made in accompanished herein is	- t	PORTION CE PORTION CE CERTIFICATE MANUFACTU the unit(a) ide ith the require d correct to th	ATED MECHANIC BIFICATED MECHA D REPAIR STATION BER Intified in item Trents of Part 4 e best of my k	4 above and 3 of the U.S. nowledge.	UVIR	2546	
PAA RT. STANDARDS MANUFACTURER INSPECTION AUTHORIZATION PAA DESIGNEE REPAIR STATION CANADIAN DEPARTMENT OF TRANSPORT RESPECTOR OF TRANSPORT RESPECTOR OF AMERICAN CERTIFICATE OR DESIGNATION NO. DESIGNATION NO. SIGNATURE OF AUTHORIZED INDIVIDUAL	D. I certiattache and th	GG AVINTION CYZAIO AX FL Ify that the repair an ments hereto have be tal the information for	SLECTRO AIR PORT 32223 ad/or alteration n en made in accordinated herein is	nade to dance w true an	U.B. CERTIFIC POREIGN CE CERTIFICATE MANUFACTU the unit(s) id- th required correct to th SIGNATURE C	ATED MECHANIC MILICATED MECHA D REPAIR STATION RER Intrified in item ments of Part 4 e best of my k F AUTHORIZED	4 above and 3 of the U.S. nowledge.	UVIV described described of Federal Avi	on the res	rerse culation
PAA DESIGNEE REPAIR STATION OF TRANSPORT INSPECTOR OF AMICIANT OF TRANSPORT INSPECTOR OF TRANSPORT I	D. I certiattache and th	GG AVINTION CYZAIO AX FL Ify that the repair an ments hereto have be tal the information for	SLECTRO AIR PORT 32223 ad/or alteration n en made in accordinated herein is	nade to dance w true an	U.B. CERTIFIC POREIGN CE CERTIFICATE MANUFACTU the unit(s) id- th required correct to th SIGNATURE C	ATED MECHANIC MILICATED MECHA D REPAIR STATION RER Intrified in item ments of Part 4 e best of my k F AUTHORIZED	4 above and 3 of the U.S. nowledge.	UVIV described described of Federal Avi	on the res	rerse culation
DESIGNATION NO.	D. 1 certiatrachi and th	GG AVINTION CVZ A) G AX FL Ify that the repair an ments hereto have be ast the information for the such original formation of the such original formation of the Peder FAA FLI. STANDARDS	SLECTRO AIR PORT 3 222 J ad/or alteration n en made in accordannished herein is 9 1 7 n persons specific al Aviation Admir	nade to dance w true an	U.S. CERTIFIC PORTION CE CENTIFICATE MAMUTACTU the unit(s) idi ith the require d correct to th SIGNATURE O FAL FOR RETURN The unit ideas and is SA HEMPECTION AUTO-	ATED MECHANIC MIFICATED MECHAN D REPAIR SYATION BER METAL MINISHED METAL	4 above and 3 of the U.S. nowledge.	UVIV described described of Federal Avi	on the res	verse culation
8 = 91 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	D. I certi attachi and the Admi	CF AVINTION CF2 PA 16 AX FL Ify that the repair an ments hereto have be at the information for the suthority given instrutor of the Peder PAA FLT. STANDARDS WASPECTOR	SLECTRO AIR POST 3 22 2 3 Indoor alteration is a constrained herein in a constrained herein is a constrained herein in a constrained herein is a constrained herein in a con	nade to dance w true an	U.S. CERTIFI POSEIGN CE CESTIFICATE MANUFACTUR the unit (s) ide id correct to th SIGNATURE C VAL FOR RETURN and is MANUFACTION AUTO- CANADIAN DEPA OF TRANSPORT	ATED MECHANIC HIPICATED MECHAN D REPAIR SYATION HER HINTIFIED IN ISEM TO SERVICE INCH IN ISEM PAULICATION HIMENT NEFECTOR	a 4 above and 13 of the U.S. nowledge. INDIVIDUAL was inspected REJECTED OTHER (Specify)	described of Federal Avi	on the res	verse culation
	D. 1 certi attachi and th	CF AVINTION CFZ ATION CFZ ATION CFZ ATION CFZ ATION WE will be repair an amounts hereto have be at the information for the information for the suthocity given instrator of the Peder PAA PLI. STANDARDS WISPECTOR FAA DESIGNEE APPROVAL OR	SLECTRO AIR PORT 3 22 2 3 Ind/or alteration in the made in accordinate to accordinate the properties of the properties	APPROVI	U.S. CERTIFI POSEIGN CE CESTIFICATE MANUFACTUR the unit (s) ide id correct to th SIGNATURE C VAL FOR RETURN and is MANUFACTION AUTO- CANADIAN DEPA OF TRANSPORT	ATED MECHANIC HIPICATED MECHAN D REPAIR SYATION HER HINTIFIED IN ISEM TO SERVICE INCH IN ISEM PAULICATION HIMENT NEFECTOR	a 4 above and 13 of the U.S. nowledge. INDIVIDUAL was inspected REJECTED OTHER (Specify)	described of Federal Avi	on the res	rerse culation

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.)

P 1383 9

INSTALL IN A/C 2m STORMSCOPE SQUED MODEL WKIOA, INDICATOR INSTALLED PROSSESSOR TO BOTTOM SKIN IN REMA FUSELAGE BEHIND REMA BACCACE!

TUSTALL ANT. ON BELLY JUST AFT OF REMA FUSELAGE JUST FORWARD OF PROSSESSOR!

This installation was accomplished in accordance with A.C. 43.13-1A, Chapter 11, section 2, para. 428,429, 430; section 3, para. 443, 445, 447, 448, 449, 450; A.C. 43.13-2A, chapter 2, para. 21, 22, 23, 24, chapter 3, para. 31 and 38.

Will not cause a hazard to other aircraft systems, operation of the aircraft or its occupants.

The calculated electrical load remains within 80% of the system capacity.

The aircraft equipment list and weight and balance data have been revised.

END

ADDITIONAL SHEETS ARE ATTACHED

#1975-Q.P.O.-1708-M/678-800/175

1				7	7		m	3 7.7				78 2780	io eir
	\(\)		ma, Pov	miner of M. Mulipi MCPAIR / resplent,	Propo	Her, er j					POR PA	No. 04-RO A USE ON PICATION III.15	UX W
	PROCT	The party	Giden e	PER		49. PAR	4 400	mona.	41	. /\		t revision	thereof
		* A	2	7-44	180		***. 	1.18	7 W	TEGIST	HOITAN	MARK	1.
2. OU	MER	Di	SER	vices		u ka la	TU: E	- 11	(As down 7 CMR ONTE	RIAG	E WA	tificate) ap was L 32	9.
				A. C.									
	•••	Arra, co	448	().	UNITARO	EITHEAL		A HA			-	1	TYPE
HEFRA	VWE .					er bud is i		- lesses				ROPAIR	ATK
			egis ing Ka	rising L	1.	igi sandiya Sanarata	•				1		-
JWEI	BPLANT			1 3 44 1		a vitci		1.00 2.5	. Maring 1 (2000)	usu c	1.00		L
OPE	LLIER	1.00 cm	314 a-34 131 142	nasaayê ^t i Vêrkyê P	3.7	Direct y	1, 3	33° 3	A PARTIES			•	
PLIA		TYPE) (A)		1				H V				
_				Aponess	† · ·	OPPORTED T	. J. KIN	D OF AG			C.	RTIFICATE	NO.
		n fr.	416	10 ELECTION 1225	Roules	X Count	BH CBRTH	D MECHAN CAND MEC PAIR STATIO	I ANIE			2546	, K
<u> </u>				alteration s ade in acces had becain is	mode to		MacTunen) Identi	God in loc	m 4 abov	and de	scribed o	a the revi	rse o
TE	d that t	- ₹-	25-		Crue e			UTHORIZE					
	70-11-au	ii 1/1	43. 7	`	APPRO	/AL FOR RE	TUE ID	SERVICE	72~	79	<u> </u>		
W A	ant to th	e authority	given per Federal Av	one specific letion Admin					THE MAN	cted in	the mann	er prescrib	ed by
Ŀ	PARTE	T. STANDARDS		WACTURES		CA-LADIAN	, .	<u> </u>	10 6.5 Especto	ijuniji balati	Ca. para	6 kg (5) (5)	
TE O	APPR	OVAL OR	CER	IN STATION	10	OF AMERAS SIGNATUR		700					12.
A F		7 17-071	- 10	V (12. 7 5			_/	7 -	100	1		. 3 .	320)

DESCRIPTIO		COMPLIANCE (III	more space is	واله الوالدود،	tice the same of	st. Idealf	y with air-
eral nel			的工作是由, 随	work coupled	HOWISED PROINFORM	KP.	
**************************************	633141-11	enemaristical e	alem is rafa in o	District to tem person	Contract of chyrac	14-6-	dia provincia
	**	3.33		S OF COME	25VATCII	ediaercinos au	t the reasons
		9 410		None Continu	U VASIONES /	2.65	i ne (* 18
		PERSONAL PRINCIPAL PRINCIP			Gercy 6	r A/e 3	2 20
	FT .F	FO PILOT	19-1	STREE ICIP	- 47-7c	n in but	. C.
	in install	etion má	A	in accordan	ce with A.C. para. 443, 44	43.13-1A, (Chapter 8. 449.
### \$ 3	0; A.C. 4.	2, pere. 4 3.13-2A, cl	29, 20; 160 T Per	a. 21, 22, 2	3, 24, chapte	£ 3, pera.	31 and
. 38	and 1000 (1990) (1990)	ica a hasai	rd to other	dreraft	ens, operatio	m of the a	ircraft
OI	its occur	pents.					1-0
祝贺 与抗毒 计存储		- H					
医线性感染性 蒙	e celcula	and the second of	ical load res		80% of the ey		
医线性感染性 蒙	e celcula	and the second of	t list and w	ight and	80% of the sy ance data has		
各种的原生 机	e celcula	and the second of		ight and	[4] 智道 對同於後 五		
网络克尔拉克	e celcula	and the second of	t list and w	ight and	[4] 智道 對同於後 五		
各种的原生 机	e celcula	and the second of	v en (209)	iight and	[4] 智道 對同於後 五		
n	e calcula	and the second of	e 11st and w	Living Sight	ance data ha	to been rev	
医线电影 电电影	e calcula e aircraf	E equipment of the state of the	t list and w	Live set of	ence data ha	been rev	ised.
n	b calcula a aircraf	t equipmen	List and w	# Just Page 20 A Just	STORE CHARACTER STORE CO.	been rev	ised:
1	b calcula a aircraf	t equipmen	List and w	LIVANGE CS A	Acces data ha	been rev	ised:
1	blacking white the state of the	E equipment of the control of the co	t list and w	LIVE NOTE OF THE PARTY OF THE P	CONTRACTOR ASSESSMENT OF THE PROPERTY OF THE P	been rev	ised.
1 000000	blacker	E equipment of the control of the co	List and w	And As again mining the second	CONTRACTOR ASSESSMENT OF THE PROPERTY OF THE P	been rev	ised.

PM

1. 1. 1.		AL AVIATION ADMI	HEATION			resed No.		
		REPAIR AND		ON		R FAA U. DENTIFICA		
	AAA-d Boss	contant Prope	aller, er 🛋	oolience)	1	n Fenn	.15 🕢	Y
NSTRUCT	IONS: Print or type al	entries. See FA	R 43.9, FAR	13 Appendix B, and AC 43.	9–1 (or sub	edneut te	vision the	reof)
or instruction		PER		ρ	4-27	-23	- O	
AIRCRAFT		7-448	^	NATIONALITY AN	D REGISTRA	TION MA	lk .	
							atè)	
OWNER	NAME (As shown on n		-,	ADDRESS (As shown	RRIAGE	LAMP	770	1. 282
UWMCX	DIXIE SER	VICES	1. FOR FAA	IKE MILY	- UE DE	4 (
			J. PUR. PM	m.,				• • .
•								
	. م				1		-	
							•	
		4 8001	IDENTIFICATE				5.	TYPE
	' 		A A A A A A A A A A A A A A A A A A A	MCDSA.	SERIAL MC	. .	MEPAH	ATION
UNIT ,	MARI		\#\ <u></u>				l	1
IRFRAME	(/	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	s described in	ilem I above) ecocococo	**********	·. · · ·		×
	1 ()	1						
OWERPLAN	π			1		<u> </u>		1 -
ROPELER	- 2 - 2	11 11 11	graft gard					. 5
	1778			Commence of the first	रण्डी दश	1.		
	IVA						1	1
APPLIANCE	MANUFACTURER						<u> </u>	
			A. CONFORM	NTY STATEMENT				- NO
· O_A	AGENCY'S NAME	NO ADDRESS		B. KIND OF AGENCY		C. CE	RTIFICAT	NO.
Ba	Lac ANIBTI	ON SILETRE	טויכג עויי	. CERTIFICATED MECHANIC REIGH CERTIFICATED MECHANIC		UULK	·	_ k
	17 CRAIG		. —	ETIFICATED REPAIR STATION		0011	237	• •
	4x FL	32225		MUFACTURER				
D. 1 cert	ify that the repair and ments hereto have bee	d/or alteration mande in accord	true and com	it(s) identified in item 4 requirements of Part 43 of act to the best of my know		ederal Avi	ation Re	gulatio
DATE			SIGN	ATURE OF AUTHORIZED IN	IDIVIDUAL			
- · · · · · · · · · · · · · · · · · · ·	4-25	-91		177	779	· .		
			APPROVAL FO	R RETURN NO SERVICE				-
		nersons specified	below, the u	init identified in item 4 was APPROVED RE	inspected i	n the man	ner press	ribed t
1	inistrator of the Federa	Aviation Admin	intration and	S PAPPROVED RE	HER (Spinsify)			
Pursuant the Adm			. 1	MOREASTION MORE	- Maydik	1000		
	PAA PLT, STANDARDS	MANUFACTURES		TALL DEPARTMENT	12 T N 14 T E	14 17	7.	
Pursuant the Adm	PAA PLT. STANDARDS	MANUFACTURES	CANAL OF TR	DIAN DEPARTMENT ANSPORT INSPECTOR RCRAFT	an Name		·	· · ·
94	PAA PLT. STANDARDS PHISPECTOR PAA DESIGNEE APPROVAL OR	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	CANAL OF TR OF AL SIGN	ANSPORT INSPECTOR	INDIVIDUAL	*** **********************************	<u> </u>	· · ·

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.

appin	able directifiness requirements.			district of the c	
A DESCI	RIPTION OF WORK ACCOMPLISHED (IF more	space is required	, attach additions	al sheets. Iden	tify with air-
craf	nationality and registration mark	and date work o	ompleted.)	Section 1	
fra:		· Izonizak	ja võita erren kaa	niggar.	
	(A) သူ့အာင်ပြုချိုက် ခဲ့မှတ်မှတ်ခဲ့ရတည်။ (ညီရှင်းသည် ထွင်းသည်) (၁၈၈) အရန်နှင့် မိုင်းခဲ့တွင် အနည်း (၁၈၈) သည်ကို (၁၈၈) ပြင်းခဲ့သည်။	ที่ ว่าเป็น เอ็น ซา ยุมประชาญ ต่าง ต สาขาวอาณาการ สาขาด ค.ศ. (ค.ศ.)	profit and the profit of the contract of the c	500	
	<u>राज्येक पृथ्वे अञ्चल स्थापक प्रश्निक प्रश्निक स्थाप</u>	errika Tilika Tilak Adilak Tilak	म् <mark>रम्म</mark> ्यक् विकासिक वि	Try les decribed	perg profit in the contract of
	· 1988年 - 19884 - 19884 - 19884 - 19884 - 19884 - 19884 - 19884 - 19884 - 198	N 1383	9		
				1.00	5
product in	INSTALL IN 4/C PANEL	IN PENCE PRI	& KNG K	R-16 DA	TRON
for a second contract.	INSTACE KING	E 4 45-0 -	Cop on the	1 - • • • • • •	
	ATT	HT. INSTALL	KING ICT-	Jew in b.	mel
i Vitaria	AM Place Provided.				· ;
	This installation was accom	iplished in acc	ordance with A	.C. 43.13-1A,	Chapter
j. 4.3. i.	11, section 2, para. 428,42 450; A.C. 43.13-2A, chapter	29, 430; section 21.	n 3, para. 443 22. 23. 24. ch	apter 3. para	. 31 and
	38.				1 1
13.37	Will not cause a hazard to	other aircraft	avstems. oper	ation of the	aircraft
1	or its occupants.				
	The calculated electrical	load remains w	thin 80% of th	e system capa	eity.
	and the second s		and the second second second		
100	The aircraft equipment lis	t and weight a	M DeTauce dere	nave been re	Alber.
	الرائية على المرائد في المحمد الم ولا المحمد ا	END 🎘	معة المراكبين والحاصل المراجعية والعالم. وأني مد والروا مدم المراكبة الأراجيلية		
					¥ 1
1					
]					
	and the second s	tion of the second seco		المراجع يعتبنا فأخاصه	
1	Santa Santa S. Sixia	Migretet		THE WAY	
5.00			1 Je 113 CH	GUARGIA, SASSA	
di di di	the state of the consequence of the season	And the programme of the contract of the contract of	Visite of the second	u Ku serjiyayidi ili. Tarasar S	
317	3 1-11-11-11-11-11-11-11-11-11-11-11-11-1		THE ASSESSMENT OF	a rate a rate of	\$1. S. L.
	11 kg/km/10/15/5/5/5		1.345 6 6	WELLING A	D. C.
1 30 6	Service from the market of the first	e forest in consist in company, a selection of a	Vivi in the state of the state	er egerin, a scriptor a sono con	
	and the state of the control of the second s	AVE (1818, 1818)	ng katalan ang Kales.	किल्पा (देव्हे १०)व्हे ६४४५५५ प्राचीत्र प्राच्चालाक्ष्माकः ५ स्थाप	i Aliga Na lakofiasi
	and the contraction of the contr	dingilik estrebij Varo Olaasi		an an each	
	t in the second of the second			The second secon	
L MARKET	the design of the state of the	Christmanna film		्रिट्रिकार प्रश्लिकतालुक् इस्तानीय द्वाराज्यका	
tega arrangen	error fra en 1907, por filoso en una servicio en en en en en en especial de la constitue de constitue de la co La constitue de la constitue d		e Teorie de La Calenda de Santa de San La composição de Santa de San	el dia memberahan dan Pela Tila. Pela	www.ministra
		ADDITIONAL SHEETS	ARE ATTACHED		

±1978-0.P.O-1708-M/878-800/178

		U.S. DEPARTMENT OF FEDERAL AVIATION					Form Approved Budget Bureau I	₹o: 04- R 06	60.1
	. M.A	JOR REPAIR AI	NID A	NI TED A TION			FOR FAA	USE ON	LY
	(Airfram	e, Powerplant, P	rope	ler, or Applian	ce)		OFFICE IDENTIFE		
INSTR	UCTIONS: Print of	r type all entries. Sessition of this form.	<u> </u>			AC 43.9-1	(or subsequent	revision t	hereof)
 	MAKE			Fear,	MODEL				
i. AIRCRA		PER		<u> </u>		23-250	D -		
7. 11.11.	SERIAL NO.	4400	**	-			EGISTRATION Á	ARK	
		-4480 wn on registration certi	ficate)		NI3		registration certi		
2. OWNER					141	4 E. C	ENTER	ncarej	
	I DAROL	D ZIMMERMAN	-	3. FOR FAA USE ON		A, MI	48801		- a
			· · · · · ·	5 TON THAT OUT ON					·
						:			-"
4	Ž.						N	•	÷*
						•	7 g	-	
						1			
		4. Ui	NIT ID	ENT! FICATION			•	Τ .	TYPE
, UNIT	ľ	WAKE	Τ.	MODEL			RIAL NO.		ALTER-
<u> </u>			⊥ _					REPAIR	ATION
AIRFRAME	•••		(As de	cribed in item 1 abo	ove) ******		····		хх
			Ţ			, —— —			
POWERPLA	LNT				ं र्डेंग्	•		,	~
PROPELLER			T .						
PROPELLER		* •							
	TYPE		ļ.—					-	
APPLIANCE	: L				-			:	
	MANUFACTURER	•					in the state of		
-			٠	CANTARIUM COLOR					
	A AGENCY'S NA	ME AND ADDRESS	6.	ONFORMITY STATEM	ENT D OF AGEN			TIEL C . TE	
		7, 7		U.S. CERTIFICATI		VC1	C. CER	RTIFICATE	NO.
		RI-CITY, INC	• *	FOREIGN CERTIFI		NIC			
	ITY~AIRPOR			T CONTINUED RE	PAIR STATION	,		3036	
TILE BL	AND, MI 4	- (200		MANUFACTURER					
. MILLECIA	ments nereto neve	and, or alteration mi been made in accord furnished herein is	ance w	ith the requiremen	ts of Part 4	3-of-the U	nd described or S. Federal Avian	the eve	rse or lations
DATE				SIGNATURE OF A			Ni		
			11.7	Malek	Siron	• •			1, 1
JANHA	RY 12, 198	7		MARK R. E	VANS #2	32156	2		
				AL FOR RETURN TO		<u> </u>	 	1	
- 1		ven persons specified leral Aviation Adminis	below. tration	the unit identified and is APPRO				r prescribe	ed by
	AA FLT. STANDARDS NEPECTOR	MANUFACTURER	-	INSPECTION AUTHORIZA	LION	OTHER (Specif	v) -		
		REPAIR STATION		CANADIAN DEPARTMEN OF TRANSPORT INSPEC OF AIRCRAFT	TOR	, 26 % 		<u> </u>	. 5
DATE OF A REJECTION	APPROVAL OR	CERTIFICATE OR DESIGNATION NO	a. Î	SIGNATURE OF A	UTHORIZED	INDIVIDU	AL	•	
1/12/	87-	3036	-	MARK P RV	ANS #2	21562	•		

JAN 14 1987

FAA Form 337 (7-67)

(8320)

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

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

INSTALLED II MORROW 612B LORAN C SYSTEM PER II MORROW INSTALLATION MANUAL #560-0023 REV. 03, AND STANDARD GENERAL AVIATION PRACTICES.

INSTRUMENT PANEL PLACARDED "LORAN C SYSTEM FOR VFR NAVIGATION ONLY."

WEIGHT AND BALANCE RE-COMPUTED, A LOGBOOK ENTRY WAS MADE.

A RAMP AND FLIGHT TEST PER FAR AC20-121 WAS PERFORMED.

ADDITIONAL SHEETS ARE ATTACHED

THE RESERVE OF THE PROPERTY OF THE PERSON OF

US GPO 1981 - 775:332.47

TEST SHEET BLIND ENCODING ALTIMETER CHECK AC 43-6, PAR 7, TABLE 2

	•					* 1
TEST ALTITUDE D2 D4 A1 A2 A4	<u>B1 B2 B</u>	4 <u>C1 C2</u>	UP C4 READING	CBSERVED ERROR	DOWN READING	OBSERVED ERPOR
-1,000 FT. 0 0 0 0 0	0 0	0 0 1	0 -1100	50	-960	10
0 FT. 0 0 0 0 0		i o t	0 -100	50	40	10
500 FT. 0 0 0 0 0	ÖŤ	σŏŤ	0 400	50	500	50
1,000 FT. 0 0 0 0 0	1 T	0 0 T	00	50	1000	50
1,100 FT. 0 0 0 0 0	ŤŤ	0 1 T	0 1000	50	1100	50.
1,300 FT. 0 0 0 0 0	Ť Ť	1 7 0	0 7200	50	1520	30
1,500 FT. 0 0 0 0 0 0 1.800 FT. 0 0 0 0 0	Ť Ť	T 0 1	0 1400	59	1800	50
1,800 FT, 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0		T OSSI	7 1900	50	2000	50
2,600 FT. 0 0 0 0 0 0	T o	o o T	7 2500	50	2600	50
2,700 FT. 0 0 0 0 0		0 0 0	7 2600	50	2700	50
3,000 FT. 0 0 0 0 1		0 0 1	0 2900	50	3020	30
4,000 FT. 0 0 0 0 T		1 0 T	0 23300	50	- 4030 -	20
6,000 FT. 0 0 0 0 T 6,800 FT. 0 0 0 1 T		$\frac{\mathbf{T}}{0} \cdot 0 \frac{\mathbf{T}}{0}$	0 -5900 1 -6700	50 :	6800	50
		1 0 1	6 -7900 -	50	- 8000	50
8,000 FT. 0 0 0 T T 10,000 FT. 0 0 0 T T 12,000 FT. 0 0 0 T T	0 1 0	T o T	0 _ <u>aaaa</u> _	50	T0000	50
	T 1	TOT	0 T1900	50	72000	50
14,000 FT. 0 0 0 <u>T</u> 0	0 0	TOT	0 T38ED	70	14020	30
14,800 FT. 0 0 1 T 0		0 0	n 15900	70	T4850	20
14,000 FT. 0 0 0 T 0 14,800 FT. 0 0 1 T 0 16,000 FT. 0 0 T T 0 18,000 FT. 0 0 T T 0 20,000 FT. 0 0 T T 1 22,000 FT. 0 0 T T T	0 1	T 0 T	0 15900	50	18050	
20,000 FT. 0 0 T T 1	1 7	TOT	0 19900	50=	20030	20
22,000 FT. 0 0 T T T	ठं ठं	T'O T	0	Carpe particular recon		
25,000 FT. 0 0 T O T	7 7	O O T	0			medical control of the control of
- 30,000 FT. 0 0 T 0 0	7 7	1 0 1	0	*****		-
30,800 FT. 0 1 T 0 0		0 0 0	1	-		- resemble to the control of
35,000 FT. 0 T T 0 1 40,000 FT. 0 T T 1 T	(<u>)</u> 0	0 0 1 1 0 T	0			
45,000 FT. 0 T T T	οŤ	o o t	0		*************	entretta tura es trans. (i.e.)
45,000 FT. 0 T T T T T T T T T T T T T T T T T T	0 1 -	0 0 T	0		· /a.i.a.	-
CHANGE EL TIMETED TWDE AND MODEL	Assasas	4 a 2 D+	(20,000)			×
ENCODING ALTIMETER TYPE AND MODEL	Heroson	it 3 Fts	120,000)			
ALTIMETER S/N 21995	• .				٠	
HODEL TRANSPONDER Narco AT6-A						
INTERFACE YES X NO MC	DDEL Tran	s-Cal	(If Applicat	ite)	•	
A/C MAKE AND MODEL Piper Azte			N13839			
CHECK PERFORMED BY June 18	bllet	CRS #	3535			, N
DATE PERFORMED 2 Abril 1975	1620	¥ 76	۵.			
TEST EQUIPMENT USED			-	-	ζ.	
		FR ATC-6	00		.) .	
CLASS OF TRANSPONDER Class I	TS0'd	,		٠,		

		ANSPORTA		1 3 12 2 2 12	~~ DJ	Approved Bureau No.	04-R060	0.1
r	FEDERAL AVIATION		-	APR 197	s - 	FOR EAA I	ISE ONL	V
	MAJOR REPAIR A				OFFIC	DENTIFICA	ATION DO	_
4	(Airframe, Powerplant, P							
INSTRUCT	IONS: Print or type all entries. Seons and disposition of this form.	e FAR 4	13.9, FAR 43 Appe	ndix B, and A	AC 43.9-1 (or s	ubsequent re	evision th	ereof) '
	MAKE			MODEL	~		•	
1. AIRCRAFT	Piper			NIATIONIALIT	PA 23-		DK .	
	SERIAL NO.	*		NATIONALII	N13839	KA:ION MA	N.N.	
	NAME (As shown on registration cert	ificate)		ADDRESS (A	s shown on regis	tration certific	cate)	
2. OWNER	TANKE (AS SHOWN ON TOGETHER CO.		-	P. O. B				[
z. Girien	Swann Rentals Inc.			Sassama	nsville.	Pa. 1	9472	
	·		. FOR FAA USE ON		·			
TS APPROV	IDENTIFIED HEREIN COMPI VED FOR THE ABOVE DESCRI UTHORIZED IN FAR 43, SEC		IRCRAFT, SU	Led	euic Euice	INSPECT	ION BY	A A
<u> </u>		INIT IDE	ENTIFICATION				5 1	ГҮРЕ
		<u> </u>		- ; .	SERIAL			ALTER-
UNIT	MAKE	•	MODEL		JERIAL		REPAIR	ATION
AIRFRAME	••••••	∢ (As de:	scribed in item 1 al	oove)	•••••	•	. 1	x
POWERPLANT								
PROPELLER						• •		-
APPLIANCE	TYPE						ı.	
		6.	CONFORMITY STATE	MENT				
Α.	AGENCY'S NAME AND ADDRESS			ND OF AGE		C. CER	TIFICATE	NO.
Reading	Aviation Service.	Inc.		TED MECHANIC		1 -	535	, , 1
P. O. E	iox 1201	100		REPAIR STATION		Airfra		& 3 & 3
Reading	, Pa. 19603		MANUFACTURE		<u> </u>	Radio	19 49	, α υ
	y that the repair and/or alteration ents hereto have been made in accord t the information furnished herein					described o ederal Avia	n the rev tion Regu	erse or ilations
DATE			SIGNATURE OF	AUTHORIZE	HIDIVIDUAL			
1 Apri	1 1975		GOLF B. L	aFollet	te Rep	. 16208	76	
			OVAL FOR RETURN	TO SERVICE				
Pursuant to the Admini	the authority given persons specifi strator of the Federal Aviation Adm	ed belov	w, the unit identifion and is	roved in item 4	was inspected REJECTED	n the mann	er prescri	bed by
FA	A FLT. STANDARDS MANUFACTURER		INSPECTION AUTHO		OTHER (Specify)			•
BY	SPECTOR A DESIGNEE REPAIR STATION		CANADIAN DEPART	MENT SPECTOR				
DATE OF A	PROVAL OR CERTIFICATE C		SIGNATURE OF	AUTHORIZE	DIVIDUAL		Now to	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
REJECTION	DESIGNATION		fines &	Frankl	Jun -	Inspec	tor	
1 Apri		33	James H.	Franki	. 1.11 / =			(8320)
FAA Form	337 (7-67)							,,

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.

B. DESCRIPTION OF WORK ACCOMPLISHED (If me craft nationality and registration me	ore space is required, affacti additional sneets. Identity with dis- ark and date work completed.)
ITEM	HEIGHT ARM LOCATION
Installed: Trans-Cal D120-P2-T	
Blind Encoder TSO-C-88	1.2 22.0 Nose Compartment
1.1 company of the second	
Interface wiring in accord 3602-600, Figure 2 - 4.	iance with Narco AT6-A installation Manual
Blind Encoder installed in installation and AC43:13-2	n accordance with Trans-Cal drawing E-100124
Ground checked in accordan	nce with Table 1 of AC43-6
	d weight and balance computed.
t in the second of the second	nced herein is on file at CRS 3535.
Work has been accomplished AC43:13-2 Chapters 1, 2,	d in accordance with AC43:13-1 Chapter 11 & 3.
Continuous electrical load	d does not exceed 80% of the total output of
140 amperes produced by to	
See weight and balance ser reflected by this alterat	ction of Aircraft Flight Manual for changes
A/C	
	egit Excludible
	50.000 Similaria, Abrigado-5
5A	
J Original Na	rco AT6-A Blind Encoder
in a first tembarnessmiller and	BATE - AT OF THE OWNER BY 22ANG LOT ZENT BENEVE THE VEHICLE
1.15	AND THE RESIDENCE OF THE PROPERTY OF THE PROPE
la de la companya de	
Dawag film a mas as kit ignast a m	And the state of t
i i i i i i i i i i i i i i i i i i i	
The state of the s	and the same of th
Avea	Long to the second seco
Buss	
Buss value of production	And the second of the second o
Buss Communication of the Comm	Longist Company Compan
Buss Communication of the comm	
Buss Communication of the Comm	The second of the second secon
Buss Communication of the Comm	

DEPA- IT OF TRANSPORTATION
FEDERAL AVIATION ADMINISTRATION

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

MAJOR REPAIR AND ALTERATION (Airframe, Powerplant, Propeller, or Appliance)				OFFICE IDENTIFICATION HAR-FSDO					
INSTRUC for instruc	TIONS: Print or type all entries. See tions and disposition of this form.	FAR 4	3.9, FAR 43 Appe	ndix B, and	AC 43.9-	l (or su	bsequent	revision t	nereof)
1. AIRCRAFT	MAKE Piper SERIAL NO. 27-4480 NAME (As shown on registration certificate) Alaska Transportation Co.			MODEL PA-23-250 NATIONALITY AND REGISTRATION MARK N13839 ADDRESS (As shown on registration certificate) 1311 Airport Boulevard Ban Jose, California 95110					
2. OWNER									
		3.	. FOR FAA USE ON	LY		·. ·	•	-	•
				angar ,				* ** .	
							233		
	4. UI	NIT IDE	NTIFICATION	- :			-	5.	TYPE
UNIT	MAKE	o.	MODEL			SERIAL NO		REPAIR	ALTER-
AIRFRAME	••••••	(As des	cribed in item 1 ab	ove)******	•	•••••			x
POWERPLAN	T September 19 Mars					_		: :	
PROPELLER				-3-					-
APPLIANCE	TYPE						3		
	the state of the state of the	6. (ONFORMITY STATES		1 2 1		No. 1 year		
A	AGENCY'S NAME AND ADDRESS		B. KIN	D OF AGE			C. CE	TIFICATE	NO.
Lock Haven Airmotive Co. P. O. Box 544 Lock Haven, Pa. 17745			FOREIGN CERTIFICATED MECHANIC CERTIFICATED REPAIR STATION MANUFACTURER				1764		
D. I certi attachr and th	fy that the repair and/or alteration m neuts hereto have been made in accord at the information furnished herein is	ade to lance w	the unit(s) ident	ified in item its of Part 4	4 above 3 of the nowledge	and de U.S. Fed	scribed o leral Avia	n the rev	erse or lations
DATE .	April 1, 1970	3 3 3	SIGNATURE OF	AUTHORIZED			•	•	,
		APPROV	AL FOR RETURN TO			,			
Pursuant t	to the authority given persons specified distrator of the Federal Aviation Admini				was inspe	cted in 1	the mann	er prescril	bed by
F.	AA FLT. STANDARDS MANUFACTURER		INSPECTION AUTHORI	Annual Control of	OTHER (Spe		<u> </u>	11	
BY	AA DESIGNEE X REPAIR STATION		CANADIAN DEPARTMONION TRANSPORT INSPECTOR AIRCRAFT	ECTOR			e de la companya de l		
DATE OF A	PPROVAL OR CERTIFICATE OR DESIGNATION N 1764	ю.	SIGNATURE OF	Lucas		DUAL	intigh (c.).	1.15	
	337 (7-67)		<u> </u>	-,				 ,	8320)

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

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

THIS INFORMATION ON FILE UNDER WORK ORDER # 10433

- 1. Installed two Narco Mark 16's.
- 2. Removed two Narco Mark 12's.
- 3. Removed & Reinstalled ADF-T-12C. (no wt. change)
- 4. Installed Fire Extinguisher as per PAC Dwg. # 31989.
- 5. Installed Whelen Anti-Collision wingtip strobes as supplimentary lighting in accordance with aircraft circular 20.30 and AC 43. 13-2 and AC 43. 13-1.
- 6. Installed Dual Toe Brakes in accordance with PAC Dwg. 30940.

	*				_
OLD EMPTY WEIGHT		3309	90.2	2	98472
Add: Mark 16		7.2	58.0		417.6
Add: Second Mark 16		7.2	58.0	. · J	417.6
Remove: Mark 12	- "	- 10.75	50.5	-	542.9
Remove: Second Mark	12	- 10.75	50.5	-	542.9
Add: Fire Extinguish	er	5.0	89.0	ar"	445.0
Add: Wingtip Strobe	Lights	.7	96		67.2
Add: HD-2 Power Supp		3.1	29		89.9
Add: Dual Toe Brakes		8	49	· _	392
		3318.7	90.2	. 2	99215.5

BASIC WEIGHT

NEW	EMPTY WEIGHT	3318.7	90.2	299215.5
	(6 Gal.)	45	55.0	2475 2712
Unus	sable Fuel (4	Gal.) 3387.7	89.9	304402.5

Equipment list, weight and balance brought up to date and a satisfactory flight check has been performed.

ADDITIONAL SHEETS ARE ATTACHED

U.S. GOVERNMENT PRINTING OFFICE : 1967 DF-272-08