6
US Department
of Transportation
Federal Aviation
Administration

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

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

Administra													
INSTRU instruction such vic	lation. (49 U.	int or type all ent osition of this forn I.S.C. §46301(a))	farespire	s req	CFR Juired	§43.9, Part 4 d by law (49 U	3 Append S.C. §447	dix B, and 701). Fail	AC 43 ure to r	i.9-1 (or sub eport can res	sequent sult in a c	revision thereof) civil penalty for e	
	Nationa Unite		Serial No. 44-81										
1. Aircraft	Make	PIPER	R PA-44-180 Series						Series				
2. Owner		As shown on regis LEASING L		te)			Address	ss (As sho	wn on r	registration co	ertificate)		
2. Owner				City				285 SOUTH WATKINS ROA WATKINS			State Colorado		
					3	For FAA Use	Zip	80137		Country	USA		
4. T	уре				5, 1	Unit Identifica	4ion						
Repair	Alteration	Unit		M:	lake	Dint location	HOH	M	odel	T		2 2 MACK	
П	X	AIRFRAME	PIPER				(As described in Item 1 ab			above) 44-81		Serial No.	
		POWERPLANT			W E		ţ- · ·		nom r	above)			
				Protestina	MA					24			
		PROPELLER	Туре	1 / 3		TRACEN	IA RHI	I NIFT	W C	Z. JA			
		APPLIANCE	Manufacturer										
Agency's	Name and Ad	-1-1		6		onformity State							
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dress 37501 C	CESSNA WAY	,			1	Foreign Certific			Je ma	Manufad C. Certificat			
WATE		United States	State CO			Certificated Re			617647			2 1 = 2 1	
D. I certify	that the repa	untry United States air and/or alteratio	on made to the u	l unit(s	s) ide	Certificated Ma						617647	
furnish	ed herein is tr	rue and correct to	the best of my	know	wledg	ge.	ederal A	viation Re	gulation	is and that th	e informa	ents hereto Ition	
ktended ran er 14 CFR F op. B		Jugita	ture/Date of Aut	he	ósló	8	ldor	of the	No	3	-20	-21	
Pursuant to Administrat	o the author or of the Fed	rity given person eral Aviation Adm	ns specified be	alou	the	al for Return to unit identified	o Service d in item Approved	5 was i	nspecte Rejected	ed in the m	anner pr	escribed by the	
1 1 .	VA Flt. Standa spector	ards Manu	ıfacturer		Maiı	intenance Orga	ınization		Person	ns Approved by ment of Transp	Canadian		
1 1	A Designee	Repai	ir Station	X	Insp	pection Authoria	zation	Othe	r (Speci				
rtificate or signation N	A&P/IA 361764	- 1	ture/Date of Auth	norize	ed Inc	dividual	J St	the	6	3-20	-21		

NOTICE

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

8. Description of Work Accomplished (If more space is required, attach additional sheets.	Identify with aircraft	nationality and registration mark a United States / N258RM	nd date v	work completed.) 2/20/2021
44-8107029		Nationality and Registration N		Date
A-44-180 Shine	C) BBSW	Nationality and Registration is		919

REMOVED: FACTORY ENGINE GAUGES, FUEL QUANITY GAUGES, APOLLO MX20, VACUUM SYSTEM INCLUDING PUMP PLUMBING AND GAUGE, AND TACH GENERATOR FOR BOTH LEFT AND RIGHT ENGINES AND FUEL TANKS.

INSTALLED GARMIN G500TXI EIS SYSTEM FOR TWIN ENGINE AND FUEL PRIMARY INSTRUMENTATION IAW (IN ACCORDANCE WITH) STC SA02571SE, AND THE APPROVED IM (STC INSTALLATION MANUAL) DOC#190-01717-B3, REV 9, February 1, 2021. THE INSTALLATION IS INCLUSIVE OF TWO GEA110 ENGINE COMPUTERS (ONE LEFT, AND ONE RIGHT) ENGINE PROBES, AND SENSORS INCLUDED IN THE MANUFACTURER'S STC INSTALLATION KIT. ALL PRIMARY FUNCTIONS AS LISTED IN THE AIRCRAFT TYPE SERTIFICATE AS WELL AS EGT AND CHT FOR ALL CYLINDERS ARE DISPLAYED ON A GDU700L (GARMIN DISPLAY UNIT MODEL 700 LANDSCAPE). THE GDU IS MOUNTED IN THE AVIONICS STACK USING THE PIPER FACTORY MOUNTS PROVIDED FOR AVIONICS AND LOCATION IS PER THE APPROVED STC IM.

PROGRAMMING OF LIMITATIONS AS LISTED IN THE MANUFACTURER'S TC DATA HAS BEEN PROGRAMMED, AS WELL AS FUEL QUANTITY LEVELS CALIBRATED AND VERIFIED. THE AIRCRAFT HAS BEEN TEST RUN AND FLOWN AND ALL FUNCTIONS FOUND TO BE OPERATING NORMAL AND WITHIN THE AIRCRAFT AND ENGINE MANUFACTURER'S APPROVED LIMITATIONS.

GENERAL NOTES:

1. The electrical system of this aircraft was evaluated and equipment current draw was found not to exceed 80 percent of

aircraft's generator/alternator rated output.

- 2. The aircraft's weight and balance was updated and equipment list has been amended.
- 3. All work was accomplished IAW AC 20-1380 change 1 and 2 paragraph 15; AC 43.13-1 B chapter 11 and chapter 12 and

AC 43.13-2B chapter 2, chapter 3, and paragraph 36.

4. Aircraft equipment list amended, weight and balance was calculated. Compass compensation checked. A copy of the

operation instructions, contained in Pilot's Guide placed in the aircraft records. Documentation provided and required with this installation: AFMS G500/G600 TXi Part 23 AML STC DOC#190-01717-B2, REV 4, October 1, 2020, Pilot's Guide, G500(H)/G600/G700 TXi - SSW 3.12+, DOC# 190-01717-10, REV J, October 1, 2020, Main

Additional Sheets Are Attached

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US Department
of Transportation
Federal Aviation
Administration

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

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

Federal Aviation Administration				, , , , , , , , , , , , , , , , , , , ,		,,,	nanioo,		1				
INSTRUCT instructions such violation	and disposon. (49 U.S	sition of t S.C. §463	this form 301(a))	ies. See Title 14 C . This report is requi	FR	§43.9, Part 4. I by law (49 U.	3 Appendi S.C. §447	ix B, a	and AC Failure	43.9 to rep	-1 (or subsort can resu	equent revisio ult in a civil pe	n thereof) for naity for each
Nationality and Registration Mark United States / N258RM							Serial No. 44-8107029						
1. Aircraft	Make	PIPE		Model PA-44			4-1	80 Se	eries	**************************************			
2. Owner	Name (A		-	tration certificate) _C		1	Address (As shown on regarderess 285 SOUTH WATKIN						
an Opprior				5.	City Zip	WATKINS 80137 C			Country	State Colorado ountry United States			
					3.	For FAA Use	Only						,
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4	_												
4. Тур		 		I		Unit Identifica	ition						
Repair	Alteration	ļ	Jnit ————		ake			Model				Seria	al No.
	X	AIRFR	AME	PIPER			(As de	(As described in Item 1 above)			bove)	44-8107029	
		POWE	RPLANT										
		PROPE	ELLER										
		APPLI/	ANCE	Type Manufacturer									
A A				6		onformity Stal							
A. Agency's N Name James	D Lewis	ddress	******		В.	Kind of Agenc		nio.			1	-A	***************************************
Address 12380 Airp					-					Manufacturer Certificate No.			
city JACKS				State CA	X	Certificated Repair Station TH3P867I							
Zip 95642	Соц	untry Uni	ted States			Certificated N	Maintenance Organization TH3R867L						/L
have bed furnished	en made in d herein is t	accorda	nce with correct to	on made to the unit(s the requirements of l o the best of my know	Par vied	t 43 of the U.S. dge.	Federal A	Aviatio	n Regu	on th	e reverse o s and that th	r attachments ne information	hereto .
Extended rang per 14 CFR Pa App. B			Signa	ature/Date of Authoriz	7			<u>Z</u> ,		. >	o Lav	shi s	TO COMPANY BOOM TO SUPPLY AND A SUPPLY SUPPL
D	the said	ula ·			-	val for Return							
				ns specified below, ministration and is	th	ie unit identifi	ed in iter Approve			jected		nanner prescr	ibed by the
1 1	A FIt. Stand pector	ards	Man	ufacturer	M	aintenance Or	ganization			Departi	s Approved b		
FA	A Designee	>	∢ Repa	air Station	In	spection Autho			Other	(Speci	ту)		
Certificate or Designation No	_{o.} TH3R	867L	Signa	ature/Date of Authoriz	ed	Individual	1-15			0	Lev	عادً <	

NOTICE

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

8. Description of Work Accomplished
(If more space is required, attach additional sheets. Identify with aircraft nationality and registration mark and date work completed.) United States / N258RM 01/15/2021
Nationality and Pagistratics Mark
Nationality and Registration Mark Date
REMOVED: VACUUM ADI, AND NSD360 HSI.
INSTALLED: 1) A GI275 ADHRS+AP P/N 010-02327-20, and GI275 BASE P/N 010-02325-00 IAW
I (IN ACCURDANCE WITH) STC SAU2658SE, and approved IM (INSTALLATION MANHALL) DOG#
190-02246-10, REV 5, AUGUST 31, 2020. The units are configured as AI/HSI (AI/PFD at removed
Al location, and HSI removed HSI location) IAW the IM, and interfaced to existing navigation and
autopilot equipment for NAV (GPS,VOR, ILS) guidance IAW the IM's.
GENERAL NOTES:
- SANS SEC ME TEN SEC MANAGEMENT
1. The electrical system of this aircraft was evaluated and equipment current draw was found not to exceed 80 percent of
aircraft's generator/alternator rated output.
2. The aircraft's weight and balance was updated and equipment list has been amended.
3. All work was accomplished IAW AC 20-1380 change 1 and 2 paragraph 15; AC 43.13-1 B
chapter 11 and chapter 12 and
AC 43.13-2B chapter 2, chapter 3, and paragraph 36.
4. Aircraft equipment list amended, weight and balance was calculated. Compass compensation
checked. A copy of the
operation instructions, contained in Pilot's Guide placed in the aircraft records.
Documentation provided and required with this installation: Gl275 installation: Gl275 pilot's quide
[doc#190-02246-01, rev B, July 31, 2020; AFMS Doc# 190-02246-12, Rev 2, August 31, 2020, MM
with ICA, Doc# 190-02246-11, Rev 2, August 31, 2020.

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Additional Sheets Are Attached
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and Operator Assett to prompto and A

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SENDYED: 1) A GISTS ADMESTAP PAY O'TO-02221-20; and GISTS BASE PAY O'TO-02225-02 TAYA
IN ACCOMMANCE WITH) STO SAD28286E, and approved BY (MISTALLATION MANUAL) DOSH
180-02246-10, REV 5, AUGUST 31, 2020. The units and configured as AUHSI (AIPTD at removed
A tocation, and HSI removed HSI tocation) IAW the file, and intelliged to existing mayigation and
accorder significant for NAV (GPS VOR, R.S) auddence IAW file ISM.

SENION JARSHED

1. The electrical system of this alread was evaluated and equipment ourraint draw was found not to second 50 parcent of

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2. The nicreff's weight and belance was updated and aquipment list had been amended.
3. All work eves accomplished May AC 20-1350 shange fland 2 narrangings 15: AC 45.13-1 B.
Shapter 41 and devoter 12 and flant.

AC-CL13-28 chapter 2, chapter 3, and presidents 9

Aircraft equipment list amended, weight and balant awas calculated. Compact companies that associated. A copy of the

Desiration instructions, contained in Pilot's Guide placed in the strain security.

Bocumentation provided and required with this installation. GI275 installation, GI275 pilot's guida device 20-02246-07, ray 8, July 31, 2020. AFMS Door 180-02246-12, frow 2, August 31, 2020. MM with ICA, Closs 190-02246-11, Tew 2, August 31, 2020.

Form Approved
Budges Bureau No. 04-R060.1 US DEPARTMENT OF TRANSPORTATION FEDERAL AVIATION ADMINISTRATION FOR FAA USE ONLY MAJOR REPAIR AND ALTERATION SO-FSDO-15 (Airframe, Powerplant, Propeller, or Appliance) See FAR 43.9, FAR 43 Appendix B, and AC 43.9-1 (or subsequent revision thereof) 1NSTRUCTIONS Print or type all entries. MAKE Piper PA44-180 1. AIRCRAFT SERIAL NO. 44-8107029 ATIONALITY AND REGISTRATION MARK N258RM ADDRESS (As shown on registration certificate) . 8531 Weeping Willow Way NAME (As shown on registration certificate) 2. OWNER Bazeco, Inc. Orlando, FL 32817 3. FOR FAA USE ONL 4. UNIT IDENTIFICATION S. TYPE ALTER-SERIAL NO. ATION AIRFRAME X ; POWERPLANT PROPELLER APPLIANCE CONFORMITY STATEMENT CERTIFICATE NO. A. AGENCY'S NAME AND ADDRESS Bruce Futch 7978 Hillcrest Ter. Orlando, FL 32810 POREION CERTIFICATED MECHANIC 264111567 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 anathments 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 1-13-93 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 . X APPROVED REJECTED.

INSPECTION AUTHORIZATION
CANADIAN DEPARTMENT,
OF TRANSPORT INSPECTOR
OF AIRCRAFT

SIGNATURE OF AUTHORIZED INDIVIDUAL

DATE OF APPROVAL OR REJECTION
1-13-93
FAA Form 337 (7-67)

FAA FLT. STANDARDS

PAA DESIGNEE

MANUFACTURER

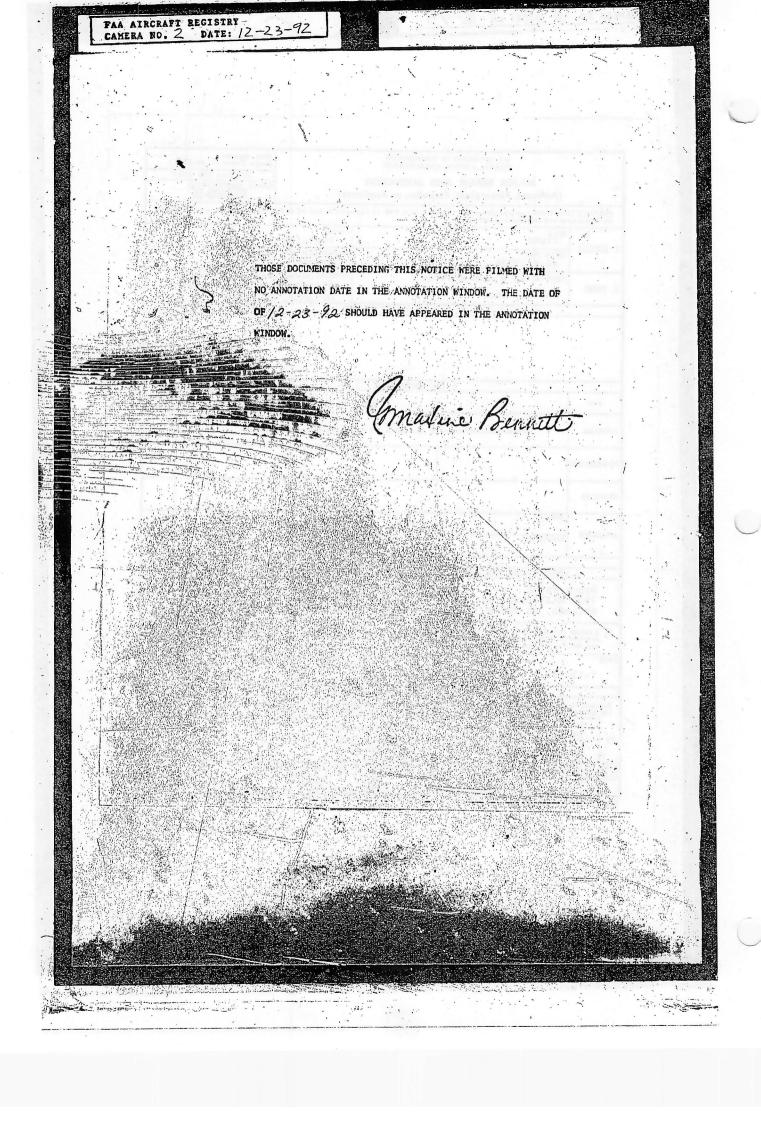
REPAIR STATION

CERTIFICATE: OR

DESIGNATION NO.

264111567

(8320)



FAA AIRCRAFT REGISTRY CAMERA NO. 3 DATE: 11-6-91

UNITED STATES OF AMERICA DEPARTMENT UF TRANSPORTATION—FEDERAL AVIATION ADMINISTRATION STANDARD AIRWORTHINESS CERTIFICATE 3 AIRCRAFT SERIAL NUMBER 1 NATIONALITY AND 2 MANUFACTURER AND MODEL REGISTRATION MARKS NORMAL 44-8107029 N258KM . PIPER PA-44-180T 5 AUTHORITY AND BASIS FOR ISSUANCE This anyonithness certificate is sittled arcraft to which assued has been may operation, and inside the mount to me provided by Annes 8 to the Conventio Exceptions Note 6 TERMS AND CONDITIONS Unless sooner purrendered, suspended, revoked, or a terimination date is otherwise established by the Administrator, this unless sooner purrendered, suspended, revoked, or a terimination date is otherwise established by the Administrator, this arrivative productions are performed in accordance with Paris 21, 43, and 91 of the Federal Avaition Reportions, as a performate, and the arrivative registered in the United States. DATE DESIGNATION NUMBER ACCO TESTO -- 15 Any alteration, reproduction, or misuse of this certification may be purentiable by a line notice teepings 1,900, or imprisonment not exceedings. AVIATION REGULATIONS **U.S. GPO: 1989—662-877 FAA Form 8100-2 (8-82)

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		ERAL AVIATION AD				OR FAA		Υ
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NSTRUC of instruc			AR 43	9, FAR 43 Appendix B, an	d AC. 45.9-1 (DI 1)			
	MAKE PI	PER			TURBO SEMII			
AIRCRAFT	SERIAL NO. 44	-8107029			LITY AND REGISTR			
	NAME (As shown on	registration certific	crte)	ADDRESS	(As shown on regist	ration certif	icate)	
OWNER	1	B. FLOREN			497 BLACKW			0
			3.	FOR FAA USE ONLY	LONGWOOD,	LTOKID	M 32/3	
				A North Carlotter of the Carlotter of th		0 35070 9 361111 31446A		
		4. JUN	IT IDE	(TIFICATION			5. 1	TYPE
UNIT				MODEL	SERIAL P	40.	REPAIR	ALTER-
- 1	 							x
IRFRAME	***************************************	************************	As desc	ribed in item 1 above)				
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PPLIANCE	MANUFACTURER	••	. 9			MSIL.		
. <u> </u>		11 11 11	1	CONFORMITY STATEMENT				<u> </u>
	A AGENCY'S NAME	AND ADDRESS	а.	B KIND OF A	GENCY	C. CI	RTIFICATE	NO.
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	ORLANDO, FL	to M. constitution	LIVE	A CERTIFICATED REPAIR STA	TION	1		5
D. l cer attack and t	tify that the repair an iments hereto have be that the information for	d/or alteration m	ade to	the unit(s) identified in with the requirements of Prind correct to the best of m	ZED INDIVIDUAL		on the reviation Reg	verse or ulations
	03/18/88	· · · · · · · · · · · · · · · · · · ·	ADDDO	Shu P. Sh		engo		
Pursuant the Adm	to the authority give	n persons specifical Aviation Admin	d below	w, the unit identified in iter on and is APPROVED	n 4 was inspected REJECTED	in the man	ner prescr	ibed by
	FAA PLYSTANDARDS INSPECTOR	MANUFACTURER	- '	INSPECTION AUTHORIZATION	OTHER (Specify)		, 17. 15	
av L		1'	1	OF TRANSPORT INSPECTOR				
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Weight and balance or operating limitation changes shall be entered in the appropriate aircraft record. An alteration must be compatible with all previous alterations to assure continued conformity with the

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, NORTHSTAR M-1 LORAN IN RIGHT HAND RADIO PANEL . LOW THE KI-76A TRANSPONDER UTILIZING EXISTING MOUNTING RAILS INSTALLED BY PIPER AIRCRAFT FOR RADIO PANEL MOUNTING. THE M-1 IS COUPLED TO THE HSI THRU A N.A.T. RS-OS LORAN COUPLING BOX. PRESENTATION IS SWITCHED BY A TOGGLE SWITCH WITH A BLUE INDICATOR LIGHT AS REQUIRED TO INDICATE WHEN LORAN PRESENTATION IS ON THE HSI.

THE ABOVE INSTALLATION WAS BERFORMED IN ACCORDANCE WITH AC43.13 24, CHAPTER 2, PARAGRAPHS 21, 22, AND 23; AND CHAPTER 3, PARAGRAPHS 36 AND 37 AND MEETS REQUIREMENTS OF 90.145.

WIRING FOR THE ABOVE INSTALLATION WAS PERFORMED IN ACCORDANCE WITH AC43.13 1A, CHAPTER 11, SECTIONS 2, 3, 5, AND 7.

INTERFERENCE CHECK WAS PERFORMED AND NONE FOUND. ELECTRICAL LOAD WAS CHECKED IN ACCORDANCE WITH AC43.13 1A, CHAPTER 11, PARAGRAPHS 426-428.

THIS INSTALLATION MEETS THE REQUIREMENTS OF AC20 121 PARAGRAPH 6.A ITEMS 1, 2, 3, 4, AND 5.

WEIGHT AND BALANCE WAS REVISED AND LOG BOOK ENTRIES WERE MADE. LAST ITEM.

ADDITIONAL SHEETS ARE ATTACHED

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DEPARTMENT -	UNITED STATES OF AM TRANSPORTATION-FFDERA ARD AIRWORTHINES	AVIATION TOOL	NISTRATION .		
1 Mationis	ARD AIRWORTHINES	3 AIRCRAFT SERIAL	L CATED		
	per PATA-180TAV	NUMBER 9107020			
This airworthiness tertifico	Supple pursuant was sent to	and the policy			
therefor, to be in condition comprehensive and detailed Aviation, except as noted	SSUPPLE DURANT STATE PRODUCTION OF MANAGEMENT OF MANAGEMEN	and found to conform to	the type certificate of the type certificate of the applicable on international Civil		
Exceptions:	None	-			
TERMS AND CONDITIONS		7		aliga te de est estría. Les la terminada	
this airworthiness restificate performed in accordance wi aircraft is registered in the	submerted, revoked or a talphinology dots is affective as long at the parintenance, the Roll J. A3, and 91 of the Federal A e United States.	e is attentive established in preventative maintenance, visition Regulations, as a	or the Administrator, and alterations are ppropriate, and the		
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FAA Form 8100-2 (7 67) FO	AL AVIATION REGULATIONS	DISPLAYED IN THE AIRC	RAFT IN ACCORD.		
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CAMERA NO. 4N DATE: 8-



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 civil penalty not to exceed \$1,000 for each such violation (Section 901 Federal Aviation Act of 1958).

10, 500, 500,	i violation (ecotion	oo i i edelai Aviationi Ac	LUII	930).					
	Make Piper Airc	raft Corp.		Model PA44-180T					
1. Aircraft	Serial No. 8107029				and Registration Mark				
	Name (As shown	on registration certifica	ite)		Address (As shown on registration of				
2. Owner	Secker Phil Secker Ronr Hall Adriar	llip A Jr na M	,		lor	e 7			
e				3. For FAA Use Or	nly			<u>_</u>	
	1			4. Unit Identification	on		5. Type		
Unit	N	Make		Model		Serial No.	Repair	Alteration	
AIRFRAME		. (/	As de	escribed in Item 1 abov	re) ———			Х	
POWERPLANT									
PROPELLER									
APPLIANCE	Туре								
	Manufacturer								
				6. Conformity Statem	nent .		*****		
A. Agency's Nan	ne and Address			B. Kind of Agency		C. Certi	ficate No.		
Hugh Wayne 6346 East Tucson, AZ	Eli Drive			X U.S. Certificated Foreign Certifica		IA 268	80121		
				Certificated Rep	air Station		• •		
have been	made in accordance	alteration made to the use with the requirements orrect to the best of my l	of Pa	art 43 of the U.S. Fede	bove and des ral Aviation Re	scribed on the reverse or a egulations and that the info	ttachments here ormation	to	
Date March 21,2	002			Signature of Authoriz	zed Individual	we	5	T.	
		•	7. Ap	proval for Return To	Service				
Pursuant to the Administrator o	e authority given per of the Federal Aviation	sons specified below, the construction and is	ne un	it identified in item 4 water 1	as inspected in REJE	n the manner prescribed b	y the		
FAA F Inspec	lt. Standards ctor	Manufacturer	Х	Inspection Authoriza	tion	Other (Specify)			
FAA D	Designee	Repair Station		Person Approved by Canada Airworthines	s Group				
Date of Approval		Certificate or Designation No.		Signature of Authoriz					
March 21,	2002	TA 2680121			16 1	1/2	\	· .	

FAA Form 337 (12-88)

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US Department of Transportation Federal Aviation

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

Form Approved

OMB No. 2120-0020

For FAA Use Only

Office Identification

STRUCTIONS: Print or type all entries. See FAR 43.9, FAR 43 Appendix B, and AC 43.9-1 (or subsequent revision thereof) for instructions 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 of Federal Aviation Act of 1958). Make Model Piper PA-44-180T 1. Aircraft Serial No. Nationality and Registration Mark 44-8107029 U.S.A. **N258RM** Name (As shown on registration certificate) Address (As shown on registration certificate) B.S., LLC 1 Curry Drive Box 217 2. Owner North Vernon, IN 47265 3. For FAA Use Only The data identified herein complies with the applicable airworthiness requirements and is approved for the above described aircraft, subject to conformity inspection by a person authorized in FAR Part 43, 8ection 43.7. FAA Inspector AGL-IND-FSDO Allechent Date: 6-25-03 4. Unit Identification 5. Type Unit Make Model Serial No. Repair Alteration AIRFRAME ~ (As described in Item 1 above) ~ X **POWERPLANT PROPELLER** Туре **APPLIANCE** Manufacturer 6. Conformity Statement A. Agency's Name and Address B. Kind of Agency C. Certificate No. Muncie Aviation Company U.S. Certificated Mechanic 5201 North Walnut Street Foreign Certificated Mechanic Muncie, IN 47303-9778 Certified Repair Station AJVR135C

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

Manufacturer

6-26-03 Scott D. Picha 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 ☐ REJECTED AA Fit. Standards Manufacturer Other (Specify) Inspection Authorization Inspector BY Person Approved by Transport FAA Designee Repair Station Canada Airworthiness Group ate of Approval or Rejection Certificate or Signature of Authorized Individual Designation No. Scott D. Picky 6-26-03 AJVR135C Scott D. Picha

FAA Form 337 (12-88)

INSTRUCTIONS FOR CONTINUED AIRWORTHINESS

A/C Make: Piper Turbo Seminole Model: PA-44-180T S/N: 44-8107029 Reg. #: N258RM

Date: 6-26-03 Revision: Original

This sixteen-item checklist shows the Instructions for Continued Airworthiness (ICA), to comply with FAA Handbook Bulletin for Airworthiness (HBAW 98-18 Dated October 7, 1998), and is applicable to the aircraft listed above when a GARMIN

TEM	CHECKLIST INFORMATION
1.	Introduction: This document identifies the Instructions for Continued Airworthiness for the modification of the above aircraft by installation of a GDL49 with an AV14. Applicability: Applies to aircraft altered by installation of GDL49 with an AV14. Definitions And Abbreviations: None, N/A Precautions: None, N/A Units Of Measurement: None, N/A Referenced Publications: Installation Manual 190-00231-00 Revision D dated May 19, 2003, Maintenance Manual 190-00231-01, Supplemental Type Certificate # SA01073WI Type Certificate # 3A16, 400 / 500 Series Weather Data Link Pilot's Guide, and P/N 190-00231-05 Revision A dated May 2002.
	Distribution: This document is a permanent aircraft record. Description: Installation of the GDL49 with interfaces to the AV14 and the aircraft's GNS430 Comm / Nav / GPS.
2.	
3.	Control: Refer to the Pilot's Guide.
4.	Servicing Information: N/A
5.	Maintenance Instructions: Maintenance of the GDL49 is 'on condition' only. Periodic maintenance is not required Refer to the Maintenance Manual. Inspection guidelines are to be done in accordance with FAR 43, Appendix D, Paragraph (b)(2), (c)(1) & (7), and (i).
-	Troubleshooting Information: Refer to the Maintenance Manual.
6. 7.	Removal And Replacement Information: Refer to Sections 2 and 3 of the Installation Manual. If a component of the GDL49 System is removed and reinstalled a functional check should be conducted in accordance with Section 5 of the Installation Manual.
8.	Diagrams: Refer to Sections 3 and 4 of the Installation Manual.
	Special Inspection Requirements: N/A
9.	Application Of Protective Treatments: N/A
10.	Data Relative To Structural Fasteners: Antenna installation, removal, and replacement should be in accordance with applicable provisions of Advisory Circular 43.13-1B and 43.13-2A.
10	List Of Special Tools: N/A
12.	For Commuter Category Aircraft: N/A
13.	Recommended Overhaul Periods: No additional overhaul time limitations.
14.	Airworthiness Limitation Section: No additional airworthiness limitations.
15.	
16.	Revision: A letter will be submitted to the local FSDO with a copy of the revised FAA Form 337 and revised ICA. The FAA inspector accepts the change by signing Block 3 and including the following statement: "The attached revised / new Instructions for Continued Airworthiness (date) for the above aircraft or component major alteration have been accepted by the FAA, superseding the Instructions for Continued Airworthiness (date). Once the revision has been accepted a maintenance record entry will be made identifying the revision, its location, and date of the Form 337.



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 civil penalty not to exceed \$1,000 for each such violation (Section 901 Federal Aviation Act of 1958).

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1. Aircraft	Serial No. 8107029	The DETAYLE SEE THE	male le		Nationality N258R	y and Registration Mark RM	8-er I brus I-	H pelieten
	Name (As shown	n on registration certif	icate)	****	Address ((As shown on registration ce	ertificate)	
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				3. For FAA Use Or	ıly			
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				4. Unit Identification	on		5. Type	,
Unit	I	Make		Model		Serial No.	Repair	Alteration
AIRFRAME			(As de	scribed in Item 1 abov	e) ———			Х
POWERPLANT	г							
PROPELLER								
APPLIANCE	Type Manufacturer							
				6. Conformity Statem	nont.		E '	
A Agency's Na	me and Address			B. Kind of Agency	ient	C Cor	tificate No.	
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Hugh Wayn 6346 East Tucson, A	Eli Drive			X U.S. Certificated Foreign Certifica			300121	
ruceon, n	2 03/10			Certificated Rep.	air Station			
				Manufacturer				
have been	n made in accordant	r alteration made to the ce with the requireme correct to the best of n	nts of Pa	art 43 of the U.S. Fede	bove and called rail Aviation	described on the reverse or a Regulations and that the interest that the interest and that the interest are set to be set to b	attachments here formation	eto
Date				Signature of Authoriz	zed Individu	ıal		
March 21,	2002			1	Rui	3, le	5	
			7. Ap	proval for Return To	Service			
Pursuant to th Administrator	e authority given pe of the Federal Aviat	rsons specified below ion Administration and	v, the uni	it identified in item 4 w	as inspecte	d in the manner prescribed	by the	
FAA Inspe	Flt. Standards ector	Manufacturer	Х	Inspection Authoriza	tion	Other (Specify)		
	Designee	Repair Station		Person Approved by Canada Airworthines	Transport ss Group			
Date of Approva		Certificate or Designation No. IA 2680121	Lasjai	Signature of Authoriz		ing the		***

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.

March 21, 200	2 N258RI				
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nstructions for	r servicing ar	e one year or 200	hours. Replace when 50% of e	Hellion is covered with	
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MAJOR REPAIR AND ALTERATION (Airframe, Powerplant, Propeller, or Appliance)

Form Approved OMB No. 2120-0020

For FAA Use Only

Office Identification CE-01

INSTRUCTIONS: Print or type all entries. See FAR 43.9, FAR 43 Appendix B, and AC43.9-1 (or subsequent revision thereof) for instructions and disposition of this form. This is required by law (49 U.S.C. 1421). Failure to report can result in a civil penalty not to exceed \$ 1000 for each such violation (Section 901 Federal Aviation Act of 1958).

4 4	Make PIPER			Model PA-44-	180			
1. Aircraft	Serial No. 44-8107029	sarma		Nationality and N258RM	d Registration Mar			
2. Owner		n registration certificate)		Address (As a PO Box	shown on registrati	on certificate)		AR (DAS HA) NASIATORA NASIATORA
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attachments	hereto have be	id/or alteration made t een made in accordan hished herein is true a	ce with the) identified in item 4 a requirements of Part	43 of the U.S.	cribed on the re	everse or	ions
Date 10-May	-2004		Signat	ture of Authorized Individ	Jual	Herry		
			7. Approval	for Return to Service		0		
Pursuant to Administrato	the authority giver of the Federal	en persons specified Aviation Administration	below, the	unit identified in item X APPROVED	4 was inspect		er prescrib	ed by the
BY Inspe		Manufacturer		ion Authorization	Other (Spec	ify)	A ST. Private A restriction	
	Designee	Repair Station	Person Canada	Approved by Transport a Airworthiness Group				
Date of Appro	val or Rejection	Certificate or Designation No. R02D142L	Signat	ture of Authorized Individ	lual	leig.		

FAA Form \$37 (12-88)

NOTICE

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

An alteration must be compatible with all previous alterations to assure continued conformity with the applicable airworthiness requirements.

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

MAY 1 9 200 H

May-10-2004 N258RM PIPER PA-44-180 44-8107029

Installed Garmin AT, Inc. MX20 MFD TSO C110a and C113 in Accordance With STC# SA02154AK. Installed WSI InFlight Weather Briefing System (AV200) FAA/PMA and a Garmin GTX-330 Mode S TIS (traffic information system) transponder TSO C112. The installation references STC # SA01588NY-D and STC # ST01125WI as a basis for approval.

The Garmin AT MX20 is mounted in the pilot's normal field of view in the center instrument panel. The installation used manufacturer's mounting tray P/N 310-0429-00 and radio mounting rails at station 62.0. The AV-200 was mounted behind the aft baggage area using the manufacturers mounting tray P/N 305453-00 at station 183.0. The WSI antenna CI 1530-1 FAA/PMA was mounted on the top of the fuselage at station 102.0. The GTX-330 transponder was installed in the radio stack replacing the existing transponder. The installation uses the manufacturers mounting tray P/N 115-00294-00 at station 56.6. The GTX-330 Transponder is connected to a existing transponder antenna.

The MX20 is coupled serially to the existing GNS430 GPS/NAV/COM for position information, serially to the existing altitude digitizer for altitude information, and serially to the AV200 to display the weather information. The GTX-330 is interfaced serially to the existing GNS430 GPS/NAV/COM and MX-20 MFD to provide TIS (Traffic Information Service) information and the existing KMA-24 audio panel. The GTX 330 is connected to the existing altitude digitizer for altitude information.

The MX20 is protected by one individual circuit breaker on the aviones bus labeled MFD (3 Amp). The WSI AV200 is protected by a individual circuit breaker labeled WSI (1Amp) on the avionics buss. The GTX-330 is protected by a individual circuit breaker labeled XPDR (5Amp) on the avionics buss.

FAA approved Apollo MX20 Flight Manual Supplement dated Oct. 14, 2003 was added to the aircraft flight manual.

All equipment was installed in accordance with the Garmin AT MX20 STC Master Drawing List P/N 560-5050-05, Garmin AT MX20 Installation Manual P/N 560-1025-07 Rev. B., WSI AV200 installation manual P/N 305427-00, Garmin GTX 330 installation manual P/N 190-00207-02 Rev F, and applicable aircraft maintenance manual, and criteria contained within AC43.13-2A, chapter 2, paragraph 21 through 27. ELECTRICAL LOAD ANALYSIS was performed and meets the requirements of AC43.13-1B, Chapter 11, Section 3, paragraph 11-37 and AC43.13-2A, paragraph 27D. All affected systems were tested in accordance with AC43.13-1B, Chapter 11, Section 8, paragraph 11-107 and AC43.13-2A, paragraphs 10 and 21a, (6), and it was determined that there is no ADVERSE INTERFERENCE to or from the newly installed equipment. MATERIALS AND OTHER ELECTRICAL HARDWARE is of the type recommended by the aircraft manufacturer or MIL SPEC approved for aircraft use and meets the requirements of AC43.13-1B, Chapter 11, Section 4 paragraph 11-48 and 11-49. Electrical/Electronic WIRE TYPE was selected and installed in accordance with AC43.13-1B, Chapter 11, Section 6 and the manufactures installation manual. WIRE ROUTING, LACING AND TYING complies with AC43.13-1B, Chapter 11, Section 9. The EQUIPMENT LIST is amended and the WEIGHT AND BALANCE is computed and entered in the aircraft records in accordance with AC43.13-1B, Chapter 10, Section 2, paragraphs 10-16 and 10-20, AC43.13-2A chapter 1, paragraphs 9 and 12.

NOTICE

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

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

May-10-2004 N258RM PIPER PA-44-180 44-8107029

MAY 1 9 2004

Instructions for Continued Airworthiness for the installation of WSI AV200, Garmin AT MX20 MFD, and Garmin GTX-330 Mode S and TIS Transponder.

- 1. Introduction: This alteration consists of the installation of the WSI InFlight Weather Briefing System, Garmin AT MX20 MFD, and optional Garmin GTX-330 Mode S and TIS Transponder.
- 2. Description: The Garmin AT MX20 is coupled serially to the existing GNS430 GPS/NAV/COM for position information, serially to the existing altitude digitizer for altitude information, and serially to the AV200 to display the weather information. The GTX-330 is interfaced serially to the existing GNS430 GPS/NAV/COM and MX-20 MFD to provide TIS (Traffic Information Service) information and the existing KMA-24 audio panel. The GTX 330 is connected to the existing altitude digitizer for altitude information. For further descriptions see aircraft flight manual supplements.
- 3. Control, operation information: Information is located in AV200 user guide P/N 305424-00 or later approved version. Information for thr GTX-330 is located in aircraft flight manual supplements, Pilot's Guide P/N 190-00207-00 Rev. A or later approved version, and Garmin Display Interfaces supplement and pilot guide P/N 560-1026-05C.
- Service information: There is no regular servicing required.
- 5. Maintenance Instructions: Repair of the WSI AV200 is performed at authorized service centers. For installation problems consult the WSI AV200 installation manual P/N 305427-00 or later. Repair of the Garmin GTX-330 is performed at authorized service centers. For installation problems consult the Garmin GTX-330 installation manual P/N 190-2007-02 Rev B or later. Repair of the Apollo MX20 is performed at authorized service centers. For installation problems consult the Garmin AT MX20 installation manual P/N 560-1025-07 Rev. B.
- 7. Removal and replacement information: Consult the Garmin AT MX20 installation manual P/N 560-1025-07 Rev. B. or later. Consult the WSI AV200 installation manual P/N 305427-00 or later. Consult the Garmin GTX-330 installation manual P/N 190-2007-02 Rev B or later.
- 8. Diagrams: Installation diagrams are available in the WSI AV200 installation manual P/N 305427-00 or later. Installation diagrams are available in the Garmin GTX-330 installation manual P/N 190-2007-02 Rev B or later. Installation diagrams are available in the Garmin AT MX20 installation
- Special inspection requirements: N/A
- 10. Application of protective treatments: N/A
- 11. Data: No special data required.
- 12. Special tools: No special tools required.
- 13. For commuter category aircraft: N/A
- 14. Recommended overhaul periods: No additional overhaul time limitations.
- 15. Airworthiness Limitation Section: See Aircraft Flight Manual Supplements, Limitation section.
- 16. Revision: To Revise These Instructions for Continued Airworthiness a letter will be submitted to the local FSDO with a copy of the revised FAA form 337 and revised ICA.

	END_	
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	ADDITI	ONAL SHEETS ARE ATTACHED

US Department of Transportation

US Department of Transportation Federal Aviation Administration

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

Form Approved OMB No. 2120-0020

For FAA Use Only

Office Identification

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

1. Ain	arafi	PIPER		Model PA 44-180T								
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·	Jnit ————		M	lake			Model		Serial N	o.	Repair	Alteration
AIRFRA	AME	-		,	(As de	escrib	ped in Item 1 above	e) ——				Х
POWE	RPLANT						-					
PROPE	LLER											
APPLIA	ANCE	Type Manufacturer										
						6. Co	onformity Statem	ent				
		ne and Address				B.	Kind of Agency			C. Certific	cate No.	***************************************
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NOTICE

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

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United States Of America

Bepartment of Transportation - Federal Abiation Administration

Supplemental Type Certificate

Number SA02168AK

This Eerlificale issued to

AVAlaska, Inc. 4340 Postmark Dr. Anchorage, AK 99502

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 * Poegulations.

Original Product Type Certificate Number:

See attached FAA Approved Model List (AML) No. SA02168AK, dated January 11, 2001, or later FAA approved revision for a list of

approved airplane models and applicable airworthiness regulations.

Description of Type Design Change. Installation of hourmeter airspeed switch in accordance with AVALASKA, INC., Hourmeter Airspeed Switch Master Descriptive Data List, Drawing No. 99-AVAK006-01, dated December 17, 1999, or later FAA approved revision.

Linulations and Conditions: Compatibility of this design change with previously approved modifications must be determined by the installer. This approval is applicable to unpressurized aircraft only. Pressurized aircraft on the approved model list must have the pressurization system deactivated in accordance with FAA approved instructions.

If the holder agrees to permit another person to use this Certificate to alter the products, then the holder shall give that 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, revoled or a termination date is otherwise established by the Administrator of the Federal Aviation Administration.

Date of application: December 29, 1999

Date of issuance January 26, 2001

Dale reissued:

Date amended:

By direction of the Administrator

Gregory J. Holt

Anchorage Aircraft Certification Office

(Title)



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One attached Fad Approved Model List (AML) No. 140816640, deted Jerusey 11, 2001, or Least Fad approved revision for a list of approved exhibiton podels and applicable

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FAA APPROVED MODEL LIST (AML) SA02168AK FOR AVALASKA, INC.

STC Issue date: December 11, 2000

AIRPLANE MAKE	AIRPLANE MODEL	TYPE CERTIFI- CATE NUMBER	CERTIFICATION BASIS FOR ALTERATION
------------------	-------------------	------------------------------------	--

Cessna	C-145, C-165	A-701	CAR 4a
Cessna	120, 140	A-768	CAR 4a
Cessna	140A	5A2	CAR 3(CAR 4a)
Cessna	150, 150A, 150B, 150C, 150D, 150E, 150F, 150G, 150H, 150J, 150K, 150L, 150M, A150K, A150L, A150M, 152, A152	3A19	CAR 3
Cessna	170, 170A, 170B	A-799	CAR 3
Cessna	172, 172A, 172B, 172C, 172D, 172E, 172F, 172G, 172H, 172J, 172K, 172L, 172M, 172N, 172P, 172Q, 172R, 172S	3A12	CAR 3 (FAR23)
Cessna	172RG, P172D, R172E, R172F, R172G, R172H, R172J, R172K, 175, 175A, 175B, 175C	3A17	CAR 3
Cessna	177, 177A, 177B	A13CE	FAR 23
Cessna	177RG	A20CE	FAR 23
Cessna	180, 180A, 180B, 180C, 180D, 180E, 180F, 180G, 180H, 180J, 180K	5A6	CAR 3
Cessna	182, 182A, 182B, 182C, 182D, 182E, 182F, 182G, 182H, 182J, 182K, 182L, 182M, 182N, 182P, 182Q, 182R, 182S, R182, T182, TR182	3A13	CAR 3 (FAR 23)
Cessna	185, 185A, 185B, 185C, 185D, 185E, A185E, A185F	3A24	CAR 3
Cessna	188, 188A, 188B, A188, A188A, A188B, T188C	A9CE	FAR 21
Cessna	190, 195, 195A, 195B	A-790	CAR 3
Cessna	206, U206, U206A, U206B, U206C, U206D, U206E, U206F, U206G, 206H, P206, P206A, P206B, P206C, P206D, P206E, TU206A, TU206B, TU206C, TU206D, TU206E, TU206F, TU206G, T206H, TP206A, TP206B, TP206C, TP206D, TP206E	A4CE	CAR 3 (FAR23)
Cessna	207, 207A, T207, T207A	A16CE	FAR 23
Cessna	208, 208A, 208B	A37CE	FAR 23

Page 1 of 11

	FAA APPROVED MODEL LIST (AN FOR AVALASKA, INC.	AL) SA02168.	AK
- TARRES		STC Issue	date: December 11, 2000
AIRPLANE MAKE	AIRPLANE MODEL	TYPE CERTIFI- CATE NUMBER	CERTIFICATION BASIS FOR ALTERATION
Piper	PA-16, PA-16S	1A1	TOUR
Piper	PA-15		CAR 3
Piper ·	PA-17	A-800	CAR 3
Piper	PA-18, PA-18S, PA-18 "105" (Special), PA- 18S "105" (Special), PA-18A, PA-18 "125" (Amy L-21A), PA-18S "125", PA-18AS "125", PA-18"135" (Army L-21B), PA-18A "135", PA-18S "135", PA-18AS "135", PA-18 "150", PA-18AS "150", PA-18S "150" PA-18AS "150", PA-19 (Army L-18C), PA-19S	A-805 1A2	CAR 3 CAR 3
Piper	PA-20, PA-20S, PA-20 "115", PA-20S "115", PA-20 "135", PA-20 "135"	1A4	CAR 3
Piper	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
Piper	PA-24, PA-24-250, PA-24-260, PA-24-400	1A15	CAR 3
Piper	PA-25, PA-25-235, PA-25-260	2A8	CAR 3
Piper	PA-28-140, PA-28-150, PA-28-160 PA-28-180, PA-28-235, PA-285-160 PA-285-180, PA-28-151, PA-28-161 PA-28-181, PA-28-236, PA-28-201T PA-28R-180, PA-28R-200, PA-28R-201 PA-28R-201T, PA-28R-701, PA-28R-701T	2A13	CAR 3
Piper	PA-32-260, PA-32-300, PA-32S-300 PA-32R-300, PA-32RT-300, PA-32RT-300T, PA-32R-301(SP), PA-32R-301(HP), PA-32R- 301T, PA-32-301, PA-32-301T	A3SO	CAR 3
per	PA-36-285, PA-36-300, PA36-375	A9SO	FAR 23
er	PA-38-112	A18SO	FAR 23
iper	PA-18A, PA-18A "135", PA-18A "150"	AR-7	CAR 8
Piper	PA-25, PA-25-235, PA-25-260	2A10	CAR 8.10(b)
Piper	PA-36-285, PA-36-300, PA36-375	A10SO	FAR 21
Piper	PA-23, PA-23-160, PA-23-235, PA-23-250(Navy UO-1), PA-E23-250	1A10	CAR 3

FAA APPROVED MODEL LIST (AML) SA02168AK FOR AVALASKA, INC.

STC Issue date: December 11, 2000

AIRPLANE	TAYOUT AND		
MAKE	AIRPLANE MODEL	TYPE CERTIFI- CATE NUMBER	CERTIFICATION BASIS FOR ALTERATION

Cessna	210-5, 210-5A, 210, 210A, 210B, 210C, 210E		
	210D, 210E, 210F, 210G, 210H, 210I, 210K, 210L, 210M, 210N, 210R, T210F, T210G, T210H, T210J, T210K, T210L, T210M, T210N, T210R), 3A21	CAR 3
Cessna	321 (Navy OE-2)	3A11	CAR 3
Regal Air Inc.	305A, 305C, 305D, 305F	5A5	CAR 3
Regal Air Inc.	305B, 305E	3A14	CAR 3
Cessna	T-50 (Army AT-17, UC-78, Navy JRC-1)	A-722	CAR 4a
Cessna	T303	A34CE	FAR 23
Cessna	310, 310B, 310C, 310D, 310E, 310F, 310G, 310H, 310J, 310K, 310L, 310M, 310N, 310P, 310Q, 310R, T310P, T310Q, T310R	3A10	CAR 3
Cessna	320, 320A, 320B, 320C, 320D, 320E, 320F, 320-1335	3A25	CAR 3
Cessna	336	A2CE	CAR 3
Cessna	337, A337 (USAF 02B), 337B, 337C, 337D, 337E, 337F, 337G, 337H, T337B, T337C, T337D, T337D, T337B, T337B, T337G, T337H, T337H-SP, M337B (USAF 02A)	A6CE	CAR 3 (FAR 23)
Cessna	401, 401A, 401B, 402, 402A, 402B, 402C, 411, 411A	A7CE	CAR 3
Cessna	404, 406	A25CE	FAR 23
Piper	PA-11, PA-11S, J3C-40, J3C-50, J3C-50S, J3C-65, J3C-65S	A-691	CAR 4a
Piper	J3F-50,J3F-50S,J3F-60, J3F-60S, J3F-65 (Army L-4D), J3F-65S	A-692	CAR 4a
Piper	J3L, J3L-S, J3L-65 (Army L-4C), J3L-65S	A-698	CAR 4a
Piper	J4, J4A, J4A-S	A-703	CAR 4a
Piper	J4E(Army L-4E)	A-740	CAR 4a
Piper	J5A (Army L-4F), J5A-80, J5B (Army L-4G), J5C, AE-1, HE-1	A-725	CAR 4a
Piper	PA-12, PA-12S	A-780	CAR 3
Piper	PA-14	A-797	CAR 3

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FAA APPROVED MODEL LIST (AML) SA02168AK FOR AVALASKA, INC.

STC Issue date: December 11, 2000

AIRPLANE MAKE	AIRPLANE MODEL	TYPE CERTIFI- CATE NUMBER	CERTIFICATION BASIS FOR ALTERATION
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MAKE	MODEL	CERTIFI- CATE NUMBER	BASIS FOR ALTERATION
Piper	PA-30, PA-39, PA-40	AlEA	CAR 3
Piper	PA-31, PA-31-300, PA-31-325, PA-31-350	A20SO	
Piper	PA-31T, PA-31T1, PA-31T2, PA-31T3	A8EA	CAR 3 (FAR 23)
Piper	PA-34-200, PA-34-200T, PA-34-220T	A7SO	CAR 3 (FAR 23)
Piper	PA-44-180, PA-44-180T		FAR 23
Aerostar Aircraft Corp. of Texas	PA-60-600(AEROSTAR 600) PA-60-601(AEROSTAR 601) PA-60-601P(AEROSTAR 601P) PA-60-602P(AEROSTAR 602P) PA-60-700P(AEROSTAR 700P)	A19SO A17WE	FAR 23 FAR 23
Interstate Engineering and Type Design Inc.	S-1A, S-1A-65F, S-1A-85F, S-1A-90F	A-737	CAR 4a
Interstate Engineering and Type Design Inc.	S-1B1, S-1B2	A-754	CAR 4a
Ayres Corp.	S2A	2A9	CAR 8.10(a)(1)
Ayres Corp.	S-2B, S-2C, 600-S2C	2A7	CAR 8.10(a)(1)
Ayres Corp.	600 S-2D, S-2R, S2R-T34, S2R-T15, S2R-T11, S2R-T65, S2RHG-T65,S2R-R3S, S2R-R1340	A3SW	CAR 3
Ayres Corp.	600 S-2D,S-2R,S2R-T34,S2R-T15, S2R-T11,S2R-R3S,S2R-R1340, S2R-R1820, S2R-T45, S2R-G6, S2R-G5, S2R-G10, S2R- RHG-T34, S2R-G1, S2R-T660	A4SW	CAR 8
Raytheon	C18S(Army C-45, C-45A, C-45F, AT-7, AT-7A, AT-7B, AT-7C; Navy JRB-1, JRB-2, JRB-3, JRB-4, SNB-2, SNB-2C	A-757	CAR 4a
Raytheon	3N, 3NM, 3TM, IRB-6, D18C, D18S, E18S, E18S-9700, G18S, H18, C45G, TC45G, C- 45H, TC45H, TC-45J, UC-45J(SNB5), RC45J (SNB-5P)	A-765	CAR 3

FAA APPROVED MODEL LIST (AML) SA02168AK FOR AVALASKA, INC.

STC Issue date: December 11, 2000

AIRPLANE MAKE MODEL	CERTIFI- BASI	TIFICATION IS FOR ERATION
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041	19A, B19, M19A, 23, A23, A23A, A23-19,	A1CE	CAR 3
Raytheon	A23-24, B23, C23, A24, A24R, B24R, C24R		
Raytheon	T34(T-34C-1)(34C)	A26CE	FAR 23
Raytheon	35, A35, B35, C35, D35, E35, F35,G35, 35R	A-777	CAR 3
Raytheon	H35, J35, K35, M35, N35, P35, S35, V35, V35A, V35B, 35-33, 35-A33, 35-B33, 35-C33, 35-C33A, E33, E33A, E33C, F33, F33A, F33C, G33, 36, A36, A36TC, B36TC	3A15	CAR 3 FAR 23 (A36TC, B36TC ONLY)
Raytheon	45(TY-34), A45(T-34A,B-45), D-45(T-34B)	5A3	CAR 3
Raytheon	95, B95, B95A, D95A, E95, 95-55, 95-A55, 95-B55, 95-B55A, 95-B55B(T-42A) 95-C55, 95-C55A, D55, D55A, E55, E55A, 56TC, A56TC, 58, 58A	3A16	CAR 3
Raytheon	58P, 58PA, 58TC, 58TCA	A23CE	FAR 23
Raytheon	76	A29CE	FAR 23
Raytheon	77	A30CE	FAR 23
Raytheon	D18C, D18S, E18S-9700, G18S, H18	A-765	CAR 3
Raytheon	60 A60 B60	A12CE	FAR 23
Raytheon	50(L-23A), B50(L-23B,L-23D,RL-23D) C50, D50(L-23B), D50A, D50B, D50C, D50E, D50E-5990, E50 (L-23D, RL-23D), F50, G50, H50, J50		CAR 3
American Champion Aircraft Corp.	7AC, 7ACA, S7AC(L-16A), 7BCM(L-16B), 7CCM, S7CCM, 7DC, S7DC, 7EC, S7EC, 7ECA, 7FC, 7GC, 7GCA, 7GCAA, 7GCB, 7GCBA, 7GCBC, 7HC, 7JC, 7KC, 7KCAB	A-759	CAR 4a
American Champion Aircraft Corp.	8KCAB, 8GCBC	A21CE	FAR 23
Bellanca	14-19, 14-19-2, 14-19-3, 14-19-3A, 17-30, 17- 31, 17-31TC		CAR 03
Bellanca	17-30A, 17-31A, 17-31ATC	A18CE	FAR 23
Bellanca	14-13, 14-13-2, 14-13-3, 14-13-3W	A-773	CAR 4a
Bellanca	CH-300 PACEMAKER	ATC 129	CAR 4a
Bellanca	300-W PACEMAKER	ATC 328	CAR 4a

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	FAA APPROVED MODEL LIST (AMI FOR AVALASKA, INC.		
		STC Issue d	ate: December 11, 2000
AIRPLANE MAKE	AIRPLANÉ MODEL	TYPE CERTIFI- CATE NUMBER	CERTIFICATION BASIS FOR ALTERATION
		654	Aero Bul.7A
Grumman	G21, G21A		CAR 3
Twin Commander Aircraft Corp.	500, 500-A, 500-B, 500-U, 500-S, 560, 560-A, 560-E	OAI	
Twin Commander Aircraft Corp.	560F, 680, 680-E, 680-F, 680FL, 680FL(P), 680T, 680V, 680W, 681, 685, 690, 690A, 690B, 690C, 690D, 695, 695A, 695B, 720	2A4	CAR 3
Gulfstream	111	Aliso	FAR 23
Aerospace Commander Aircraft Co.	112, 112TC, 112B, 112TCA, 114, 114A, 114B, 114TC	A12SO	FAR 23
Twin Commander Aircraft	700	A12SW	FAR 23
Corp.	AA-5, AA-5A, AA-5B, AG-5B	A16EA	FAR 23
Aircraft LLC Tiger	AA-1, AA-1A, AA-1B, AA-1C	AllEA	CAR 3
Aircraft LLC Alliance Aircraft Group LLC	H-250, H-295(USAF U-10D), HT-295, H-391(USAF YL-24), H-391B, H-395(USAF L-28A), H395B, H700, H800	1A8	CAR 3
Israel Aircraft Industries Ltd.	ARAVA 101, 101B	A32EU	FAR 23
Lockheed Aircraft	12-A	ATC 616	AERO BULLETIN 7A
The Don Luscombe Aviation History Foundation	8, 8A, 8B, 8C, 8D, 8E, 8F, T-8F	A-694	CAR 4a

FAA APPROVED MODEL LIST (AML) SA02168AK FOR AVALASKA, INC.

STC Issue date: December 11, 2000

AIRPLANE MAKE	MODEL	TYPE CERTIFI- CATE NUMBER	CERTIFICATION BASIS FOR ALTERATION
Britten	BN-2A MK.III, BN-2A MK.III-2, BN-2A	A29EU	FAR 21.29 (FAR
Norman Ltd.	MK.III-3		
American Champion Aircraft Corp.	11AC, S11AC, 11BC, S11BC	A-761	CAR 4a
American Champion Aircraft Corp.	11CC, S11CC	A-796	CAR 3
American Champion Aircraft Corp.	402	A3CE	CAR 3
Revo Inc.	Colonial C-1, C-2, Lake LA-4, LA-4A, LA- AP, LA-4-200, LA-4-250	1A13	FAR 23
Henry E. Williams	DH82A	A5PC	FAR 21.29
Cliff	DH82A	A8EU	FAR 21.29
Robertson			0170
Civil Air Patrol Inc.	L20A	AR-33	CAR 8
Bombardier Inc.	DHC-6, DHC-6-1, DHC-6-100, DHC-6-200, DHC-6-300	A9EA	CAR 3
De Havilland Aircraft	DHC-2, DHC-2 Mk I, DHC-2 Mk II, DHC-2 Mk III	A-806	CAR 10
Bombardier Inc.	DHC-3	A-815	CAR 10 (CAR 3)
Bombardier Inc.	DHC-4, DHC-4A	1A19	CAR 10
Diamond Aircraft	DA20-A1, DA20-C1	TA4CH	FAR 23
Dornier	Do27Q6	A81N	CAR 10 (CAR 3)
Dornier	Do 28D, Do 28D-1, 228-100, 228-101, 228-200, 228-201, 228-202, 228-212	A16EU	FAR 23
Frakes Aviation	G-73	A-783	CAR 4a

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FAA APPROVED MODEL LIST (AML) SA02168AK FOR AVALASKA, INC.

STC Issue date: December 11, 2000

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AIRPLANE MAKE	AIRPLANE MODEL	TYPE CERTIFI- CATE NUMBER	CERTIFICATION BASIS FOR ALTERATION

Maule Aerospace Fechnology, nc	H-180C, M-4-180S, M-4-180T, M-4-210, M-4-210C, M-4-180S, M-4-120T, M-4-220C, M-4-220S, M-4-120T, M-4-220C, M-5-210TC, M-5-210C, M-5-235, M-5-235, M-5-235, M-7-235, M-7-235B, M-7-235B, M-7-235C, M-7-235B, M-7-235B, M-7-235C, M-7-235B, M-7-235C, M-7-260C, M-7-26	3A23	CAR3
Central Air Services	C-54A, C-54B, C-54D, C-54E, C-54G	A36CE	FAR 21.25
Gene C. Day	R4D-8 C-54DC(Army C-54,Navy R5D)	A28SO A-762	FAR 21 CAR 4a, CAR 4b
McDonnell Douglas	CS4ADC (Army C-54A,Navy R5D-1) CS4B-DC (Army C-54B,Navy R5D-2) CS4D-DC(Army C-54D,Navy R5D-3) CS4E-DC(Army C-54E,Navy R5D-4) CS4G-DC(Army C-54G,Navy R5D-5) DC-4		
McDonnell Douglas	DC3-G102, DC3-G1032A(Army C-49E, C-50, C-50A, C-50B, C-50C, C-50D, C-51) DC3-G103A, DC3-G202A (Army C-49, C-49A, C-49B, C-49C, C-49D, C-49J, C-49K, Navy R4D-2)		AERO BULLETIN 7a
McDonnell Douglas	DC3A-SCG, DC3A-SC3G, DC3A-S1CG, DC3A-S1C3G (Army C-41, C-41A, C-48, C-48A, C-52, C-52A, C-52B, C-52C, C-53, C-53B, C-53C, C-53D, C-68, Navy R4D-3, R4D-4), DC3A-S4C4G, DC3C-SC3G, DC3C-S1C3G, DC3C-S4C4G(Army C-47, C-47A, Navy R4D-1, R4D-5) DC3C-R-1830-90C (Army C-47B, Navy R4D-6) DC3D-R-1830-90C (Army C-117A)	A-669	AERO BULLETIN 7a

FAA APPROVED MODEL LIST (AML) SA02168AK
FOR
AVALASKA, INC.

STC Issue date: December 11, 2000

AIRPLANE	AIRPLANE	TYPE	CED WYN CO.
MAKE	MODEL.		CERTIFICATION
	MODEL	CERTIFI-	BASIS FOR
I		CATE	ALTERATION
		NUMBER	
McDonnell	SUPER DC-3, R4D-8, R4D-8Z		
Douglas	301 ER DC-3, R4D-8, R4D-8Z	6A2	CAR 4b
McDonnell	DC-6		
Douglas	DC-0	A-781	CAR 4a, CAR 4b
McDonnell	DOCA N. DOCA		
Douglas	DC-6A, Navy R6D-1, USAF C-118A	6A3	CAR 4b
McDonnell	D0 (D)		and the same
	DC-6B, Navy R6D-1Z	6A4	CAR 4b
Douglas			
McDonnell	DC-7, DC-7B, DC-7C	4A10	CAR 4b
Douglas			0.20
Mooney	M20, M20A, M20B, M20C, M20D, M20E,	2A3	CAR 3
Aircraft	M20F, M20G, M20J, M20K, M20M, M20R,		CARS
Corp.	M20S		
Mooney	M22	A6SW	CIRO
Aircraft		AOSW	CAR 3
Corp.		1 .	
Noorduyn	Army UC-64, UC-64A, UC-64B, UC-64AS	4 0 600	C. S.
Aviation Ltd.		A-2-578	CAR 4a
Vulcnar	P68, P68B, P68C, P68C-TC, P68 "Observer",	10155	
S.p.A	P68TC"Observer", AP68TP 300 "Spartacus",	A31EU	FAR 21.29 (FAR 23)
	AP68TP600 "Viator", P68 Observer 2		
Pilatus	PC-6, PC-6H1, PC-6H2, PC-6/350, PC-6/350-	ļ	
Aircraft Ltd.	H1 BC 6/250 H2 BC 64 BC 64 PC-6/350-	7A15	CAR 10 (CAR 3)
moiait Liu.	H1, PC-6/350-H2, PC-6A, PC-6/A-H1, PC-	1	
	6/A-H2, PC-6/B-H2, PC-6/B1-H2, PC-6/B2-		
Pilatus	H4, PC-6/C-H2, PC-6/B2-H2, PC-6/C1-H2		
Britten-	BN-2, BN-2A, BN-2A-2, BN-2A-3, BN-2A-6,	A17EU	FAR 21.29 (FAR 23)
	BN-2A-8, BN-2A-9, BN-2A-20, BN-2A-21,		
Norman Ltd.	BN-2A-26, BN-2A-27, BN-2B-20, BN-2B-21,	1	
	BN-2B-27,BN-2T,BN-2B-26, BN-2T-4R		
Reims	F172D, F172E, F172F, F172G, F172H,	A4EU	CAR 10 (CAR 3)
Aviation S.A.			Cant IV (Cant 3)
	F1/2K, F1/2L, F172M, F172N, F172P		
	F172K, F172L, F172M, F172N, F172P F150G, F150H, F150J, F150K, F150L	AISELL	CAP 3
	F150G, F150H, F150J, F150K, F150L.	A13EU	CAR 3
Aviation S.A	F150G, F150H, F150J, F150K, F150L, FA150L, FRA150L, F150M,	A13EU	CAR 3
Aviation S.A Reims	F150G, F150H, F150J, F150K, F150L, FA150L, FRA150L, F150M, FRA150M, F152, FA152		
Reims Aviation S.A Reims Aviation S.A	F150G, F150H, F150J, F150K, F150L, FA150L, FRA150L, F150M,	A13EU	CAR 3 FAR 21.29 (CAR 3)

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FAA APPROVED MODEL LIST (AML) SA02168AK FOR AVALASKA, INC. STC Issue date: December 11, 2000 AIRPLANE MAKE AIRPLANE MODEL CERTIFICATION BASIS FOR ALTERATION TYPE CERTIFI-CATE NUMBER BC, BCS, BC-65, BC12-65 (ARMY L-2H) BCS12-65, BC12-D, BCS12-D, BC12-D1, BCS12-D1, BC12D-85, BCS12D-85, BC12D-4-85, BCS12D-4-85 Taylorcraft 2000 LLC A-696 CAR 4 19, F19, F21, F21A, F21B, F22, F22A, F22B, 1A9 F22C. Taylorcraft CAR 3 FAR 23 2000 LLC F22C. Navion (L-17A), Navion A (L-17B), (L-17C), Navion B, Navion D, Navion E, Navion F, Navion G, Navion H (Forny) F-1, F-1A, (Erco) E, 415D, (Alon) A-2, A2-A, (Mooney) M10 Navion A-782 CAR 3 Aircraft Co. Ltd. Univar A-787 CAR 3 Aircraft Corporation Univar (Erco) 415-C, 415-CD A-718 CAR 4a Aircraft Corporation Univar Aircraft Stinson 108, 108-1, 108-2, 108-3, 108-5 A-767 CAR 3 Corporation Augustair Inc. Weatherly (Morrisey) 2150, 2150A, 2180 4A19 CAR 3 201, 201A, 201B, 201C A10WE FAR 21.25(a) Aviation Co. Weatherly Aviation (CAM 8) FAR 21.25(a) (CAM 8) CAR 3 620, 620A, 620B, 620B-TG, 620TP A26WE Emerald Enterprises A9WE Ltd.

AA APPROVED:

Manager Anchofage Aircraft Certification Office Federal Aviation Administration

Anchorage, Alaska

Date: 1-26-01

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FAA APPROVED MODEL LIST (AML) SA02168AK FOR AVALASKA, INC.

STC Issue date: December 11, 2000

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AIRPLANE MAKE	AIRPLANE MODEL	TYPE	CERTIFICATION
	MODEL	CERTIFI- CATE NUMBER	BASIS FOR ALTERATION
		1	
Reims Aviation S.A	F182P, F182Q, FR182	A42EU	CAR 3, FAR 23
Reims Aviation S.A.		A23EU	FAR 23
Reims Aviation S.A.	F177RG	A26EU	FAR 23
Reims Aviation S.A.	F406	A54EU	FAR 23
Rogers	(Aeronca) 15AC, S15AC	A-802	CAR 3
Ag Cat Corp.	G-164, G-164A, G-164B,G-164C,G-164D, G- 164D With 73" Wing Gap, G-164B With 73" Wing Gap, G164B-15T, G164B-20T, G164B- 34T	1A16	CAR 8.10(a)(1)
A.G. McKinnon	G-21C, G-21D, G-21E, G-21G	4A24	CAR 3, FAR 23
Short Brothers & Harland Ltd.	SC-7 Series 2, SC-7 Series 3	A15EU	FAR 21.29 (FAR 23)
Aermacchi S.p.A	S205-18/F, S205-18/R, S205-20/F, S205-20/R, S205-22/R, S208, S208A	A9EU	FAR 21.29 (FAR 23)
Agusta S.p.A	S210	A25EU	FAR 23
Aermacchi S.p.A	F260, F260B, F260C, F260D, F260E, F260F	A10EU	CAR 3
Sky International	A-1, A-1A, A-1B	A22NM	FAR 23
S.O.C.A.T.A.	Rallye Series MS 880B, MS 885, MS 892A- 150, MS 892E-150, MS 893A, MS 893E, MS 894A, MS 894E, Rallye 100S, Rallye 150T, Rallye 150ST, Rallye 235E, Rallye 235C	7A14	CAR 10 (CAR 3)
S.O.C.A.T.A.	GA-7	A17SO	FAR 23
S.O.C.A.T.A.	TB10, TB20, TB21, TB9, TB200	A51EA	FAR 23
Swift Museum Foundation	GC-1A, GC-1B	A-766	CAR 4a

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Federal Aviation Administration

SMALL AIRPLANE DIRECTORATE ANCHORAGE AIRCRAFT CERTIFICATION OFFICE 222 WEST 7TH AVENUE, #14 ANNEX G, ROOM A18 ANCHORAGE, ALASKA 99513-7587

October 15, 1997

Mr. Cliff Belleau, Service Manager AvAlaska, Inc. 4340 Postmark Drive Anchorage, Alaska 99502

Dear Mr. Belleau:

We have received your application for Supplemental Type Certificate, FAA Form 8110-12, dated 10-2-97, for the installation of an additional FAA approved electric hourmeter in several models of Cessna and Piper single engine airplanes. However, per a telephone conversation with Mr. Fred Handy, ASI, of the Anchorage Flight Standards District Office (FSDO-03), both he and I agree that this type of modification is *not* a major alteration that would require the issuance of an STC. At most, it should require an FAA field approval. Furthermore, if the installation can be made with *no appreciable alteration* to the instrument panel, then a return to service by an FAA certified A&P mechanic (via aircraft logbook entry) can be made. Therefore, we are returning your STC application together with its accompanying documentation.

If you have any questions, or if we can assist you further, please contact Mr. Steven A. Mangiapane at (907) 271-2671.

Sincerely,

Michael K. Dahl, Manager

Anchorage Aircraft Certification Office

enclosures(3)

cc:

ACE-100

Reading File



US Department of learspot agricer Redeated Autoplace Activities alson

SMALL AIRELANE DIRECTORATE ANCHORAGE AIRCRAFT CERTIFICA 110N OFFICE 222 WEST 71H AVENUE, 814 ANNEX G. ROOM A18 ANCHORAGE, ALASKA 99513-7587

October 15, 1997

Mr. Cliff Belleau, Service Manager AwAinska, Inc. 4340 Postmark Drive Anchoraga, Ainslea 99502

Don Mr. Belleau:

We have more your application for Supplemental Type Certificate FAA Form 8110-12, dend 10-2-97, for the installation of an additional FAA approved electric hommeter in several models of Cessus and Piper single engine airpitmen. However, per a talephone conversation with Mr. Fed Handy, ASL of the Amshorage Flight Standards District Office (PSDO-03), both he used a agree that this type of modification is not a major alteration that would require the issuance of an STC. At most, it should require an EAA field approval. Furthermore, if the installation can be made with me approximite elevation to the instrument panel, then a return to service by an EAA certified Add? mechanic (via aircraft legbook entry) can be made. Therefore, we are returning your STC application together with its accompany ing documentation.

If you have any questions, or if we can assist you further, picket contact Mr. Steven A. Mangiapana at (907) 271-2671.

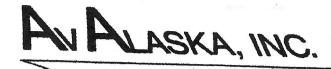
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Michael K. Dahl, Manager Anchorage Aircreft Certification Office

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4340 Postmark Drive Anchorage, AK 99502 Phone (907) 248-7070 Fax (907) 248-7771

Supplemental Type Certificate (STC) Permission Statement

J	47		Lensing is hereby authorized to ut	ilize the	followin	a 9TC 9A	00466	
to	alter	a	NASERM PA44-180T			Airplane		
foll	owing	Se	ial Number 44-8107039			, ui piane	AAILII	uie
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Sig	ned	_		Februar	y 13, 20	01.		
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Holder (or authorized agent of holder) of the following STC SA02168AK.

The aircraft owner must maintain this Permission Statement with the applicable aircraft records to demonstrate proof of authorization as required by section 403 of the Federal Aviation Authorization Act of 1996 (Public Law 104-264).

Any person who alters this form or makes or causes to be made a false statement or entry, that falsely expresses permission from the holder of an STC to use that STC, may be in violation of 14 CFR sections 21.2 and/or 43.12. Such violation may lead to suspension or revocation of FAA certificates held by that person.

OH AXBAMAWA

43 66 Postmark Othes Anchosego, AK 66602 Phone (667) 2458-7771 Pax (667) 2468-7771

Supplemental Type Certificate (STC) Perintedan Statement

PEOF 018 -1412 Aleganin representation

February 13, 2001.

Holder (or authorized egent of holder) of the following STO SARRINGSAK

The aircraft owner must maintain this Permission Statement with the applicable einstein records to demonstrate proof of authorization as required by section 403 of the Federal Authorization Apt of 1995 (Public Law 104-264).

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HOURMETER AIRSPEED SWITCH INSTALLATION INSTRUCTIONS

FOR UNPRESSURIZED AIRPLANES

AVALASKA, INC 4340 POSTMARK DR. ANCHORAGE, ALASKA

(907)248-7070

INFORMATION CONTAINED HEREIN IS PROPRIETARY TO AVALASKA, INC. AND MAY NOT BE REPRODUCED OR RELEASED WITHOUT PRIOR WRITTEN AUTHORIZATION BY AVALASKA, INC.

Report: 98-AVAK005-10M

Rev: (A)

Date: December 17, 1999

PAGE: 1 OF 5

Date: December 17, 1999

REV: (A)

HOURMETER AIRSPEED SWITCH INSTALLATION INSTRUCTIONS

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INTENDED USE	2
SYSTEM DESCRIPTION	2
INSTALLATION REQUIREMENTS	2
SYSTEM WEIGHT	2
ELECTRICAL LOAD ANALYSIS	3
INSTALLATION INSTRUCTIONS	3
CHECKOUT PROCEDURES	4.
COMPONENT LIST	5

DRAWING TITLE	<u>DRAWING NUMBER</u>
HOURMETER AIRSPEED SWITCH PITOT LINE INSTALLATION	97-AVAK003-2, Sheets 1-5 98-AVAK005-2
HOURMETER AIRSPEED SWITCH WIRING DIAGRAM	97-AVAK301-3
HOURMETER AIRSPEED SWITCH COMPONENT LOCATIONS	98-AVAK005-4

PAGE: 2 OF 5

Date: December 17, 1999

REV: (A)

HOURMETER AIRSPEED SWITCH INSTALLATION INSTRUCTIONS

Intended Use: The intended use of the Hourmeter airspeed switch is to change the operating characteristics of the typical unpressurized small aircraft Hourmeter. This modification will change the method of time tracking for the typical unpressurized small aircraft. Once the modification is incorporated, the Hourmeter will indicate "TIME IN SERVICE" as defined in 14 CFR part 1.1.

System Description: The modification adds an airspeed switch to the ground circuit of the aircraft Hourmeter. This airspeed switch utilizes the existing Pitot system to provide the needed pressures for switch actuation. The ground leg of the existing Hourmeter is connected through the airspeed switch and will supply a ground connection for the Hourmeter when the airspeed is greater than 30 Knots (35 MPH).

Installation Requirements: This modification can only be applied to aircraft that meet the following

An Hourmeter has been previously installed and approved.

The existing Hourmeter Circuit Protective Device (Fuse or Circuit Breaker) has a value less than or equal to 5 Amps.

3) The Hourmeter has an external ground that will stop clock operation when the ground lead is opened.

4) Aircraft stalling speed in the landing configuration (Vso) is greater than 30 Knots (35 MPH).

5) Aircraft is unpressurized.

System Weight:

<u>Description</u>	Weight
Airspeed Switch	2 oz.
Polyethylene Tubing	1 oz.
Tee	½ oz.
20 Gauge Wire	½ oz.

PAGE: 3 OF 5

Date: December 17, 1999

REV: (A)

HOURMETER AIRSPEED SWITCH INSTALLATION INSTRUCTIONS

Electrical load Analysis: There is no change in the electrical system load, no analysis is required.

Installation Instructions:

Required equipment:

1) No special tools or equipment are required for this installation.

Installation:

1) Refer to AC 43.13-1A/2A, "ACCEPTABLE METHODS, TECHNIQUES, AND PRACTICES", or later approved revision, for the correct methods to be utilized for this installation.

2) Select a suitable mounting location forward of the instrument panel. Insure the selected location will provide adequate clearance from control cables and other hazards to flight. Using the airspeed switch bracket (item 11, P/N: 15-0008-R-83) as a template, drill two mounting holes. See drawing 98-AVAK005-4 for a typical switch mounting location.

3) Utilizing the hardware shown on drawing 97-AVAK003-2, Sheet: 5, install the airspeed switch and bracket. Note: the bracket may be rotated to facilitate switch placement.

4) Cut the existing Pitot line and install the hardware as shown on drawing 97-AVAK003-2 or 98-AVAK005-2. Insure that adequate obstruction free clearance exists for the newly installed hardware.

5) Connect the new section of ¼ inch polyethylene line to airspeed switch as shown on drawing 97-AVAK003-2 or 98-AVAK005-2. The new section of polyethylene tubing connects to the port labeled "P" on the airspeed switch. The remaining port, labeled "V", is vented to the cabin. Do not plug the "V" port. Insure the newly added section of Pitot line forms a smooth curve when routed to the airspeed switch.

6) After reviewing the appropriate aircraft electrical drawing, remove the existing ground lead from the Hourmeter. Connect a ground lead to the Hourmeter, Airspeed switch, and aircraft ground as shown on drawing 97-AVAK301-3. Note: In some cases, it may be necessary to solder the ground lead to the Hourmeter ground terminal.

7) Utilizing the included nylon cable ties, secure the new ground lead to an existing wire bundle so as to provide adequate clearance from all control cables and other hazards to flight.

8) Install the supplied cockpit placard adjacent to the existing Hourmeter.

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Date: December 17, 1999

REV: (A)

HOURMETER AIRSPEED SWITCH INSTALLATION INSTRUCTIONS

Checkout Procedures:

Required Equipment:

1) Pitot test set.

Test:

- Test the Pitot system in accordance with the aircraft manufacturer's instructions. If the manufacturer
 has not issued instructions for testing Pitot systems, utilize the procedures contained in AC 43.13-1A or
 later approved revision.
- 2) Apply power to the aircraft and observe that the circuit protective device (circuit breaker or fuse) does not "trip" or "blow". Repair wiring if necessary for proper circuit protective device operation.
- 3) After the Pitot system has been successfully leak tested, adjust Pitot test set to indicate zero knots.
- 4) Observe that the Hourmeter is "OFF". If the Hourmeter is "ON," check for the proper airspeed switch electrical connections. Incorrect switch connections will cause the Hourmeter to record time while the aircraft is on the ground.
- 5) NOTE: Bypassing the "OIL PRESSURE SWITCH" is required for testing installations that utilize an "OIL PRESSURE SWITCH" to control Hourmeter operation.
- 6) Adjust the airspeed to equal 33 Knots (38 MPH) or greater and observe that the Hourmeter is running. If the Hourmeter does not begin to record time, check connections on airspeed switch or repair wiring as necessary.
- 7) Reconnect "OIL PRESSURE SWITCH" if bypassed for this test.
- 8) Disconnect the Pitot test equipment from the aircraft.
- 9) Make the appropriate entries in the aircraft log book indicating a Pitot system test, and the airspeed switch installation have been completed. File FAA Form 337 "MAJOR ALTERATION or REPAIR", and revise the Aircraft Equipment list.

Note: This installation will have negligible effect on aircraft weight and balance.

PAGE: 5 OF 5

Date: December 17, 1999

REV: (A)

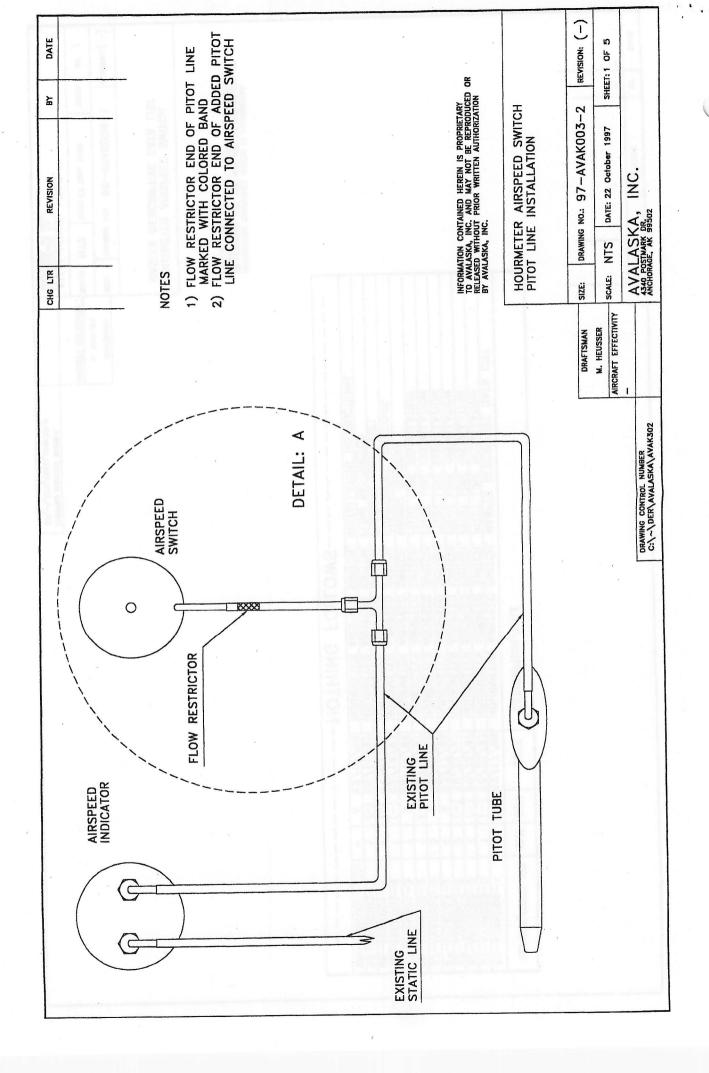
HOURMETER AIRSPEED SWITCH INSTALLATION INSTRUCTIONS

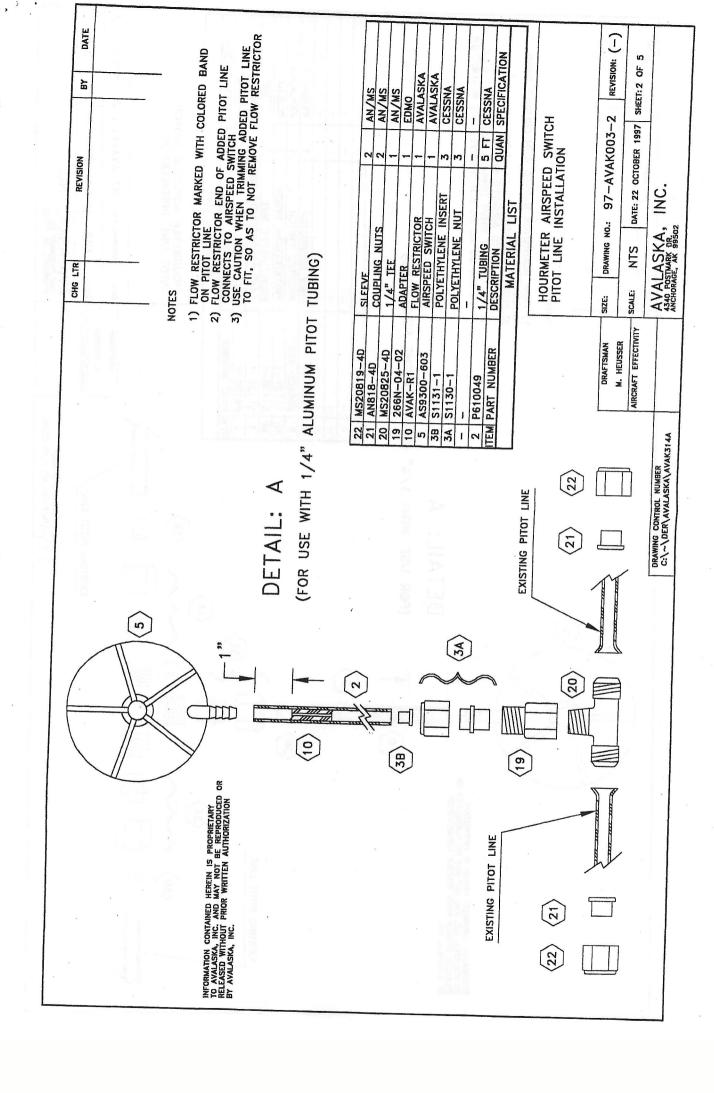
Component List

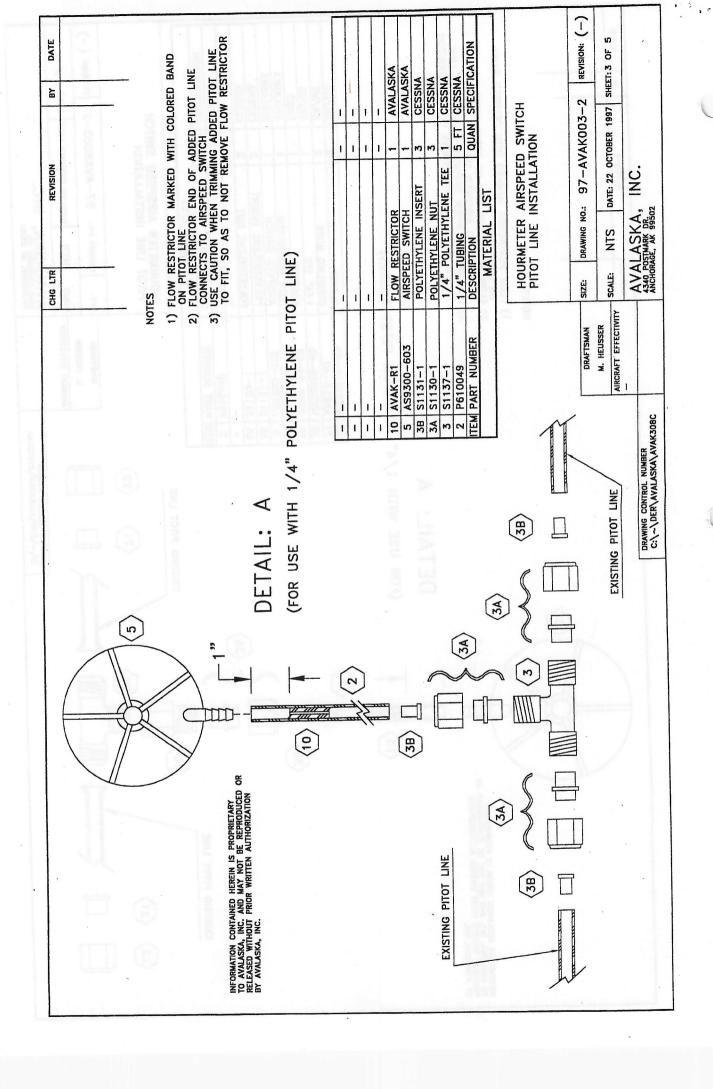
<u>Item</u>	Part Number	Description	Quantity Supplied	Source
1	AVAK AS-1	Cockpit Placard	1	Professional Colorgraphics
2	P610049	1/4" polyethylene tubing	5 Ft.	Cessna
2A	WW-T-700/4	3/16" aluminum tubing	2	Any Approved-WW-T-
	5052-0			700/4 5052-0 Source
3	S1137-1	1/4" polyethylene tee	1	Cessna
3A	S1130-1	1/4" polyethylene nut	1	Cessna
3B	S1131-1	1/4" polyethylene insert	1	Cessna
4	N/A	Existing Hourmeter	None	N/A
5	AS9300-603	Airspeed Switch	1	AvAlaska
6	640903-1	Terminal Lug	3	Amp or Equiv.
7	36154	Terminal Lug	2	Amp or Equiv.
8	M22759/16-20	Wire, 20 Ga.	4 Ft.	Any MIL-W-22759 Source
9	MS35207-263	Screw	2 .	Any AN/MS Source
10	AVAK-R1	Flow Restrictor	HOURS CAN DISSUIT MANY	AvAlaska
11	15-0008-R-83	Switch Bracket	1	AvAlaska
12	AN960-10	Washer	4	Any AN/MS Source
13	MS21045-3	Nut	2	Any AN/MS Source
14	PLT2M-C	Nylon Cable Tie	6	Panduit or Equiv.
15	AVAK AS-2	Airspeed switch label		Professional
		A		Colorgraphics
16	MS20825-3D	Tee	1	Any AN/MS Source
17	AN818-3D	Coupling nuts	2	Any AN/MS Source
18	MS20819-3D	Sleeve	2	Any AN/MS Source
19	266N-04-02	Adapter	1	EDMO Distributors
20	MS20825-4D	Tee	1	Any AN/MS Source
21	AN818-4D	Coupling nuts	2	Any AN/MS Source
22	MS20819-4D	Sleeve	2	Any AN/MS Source
23	MS27404-4D	Hose Adapter	2	Any AN/MS Source

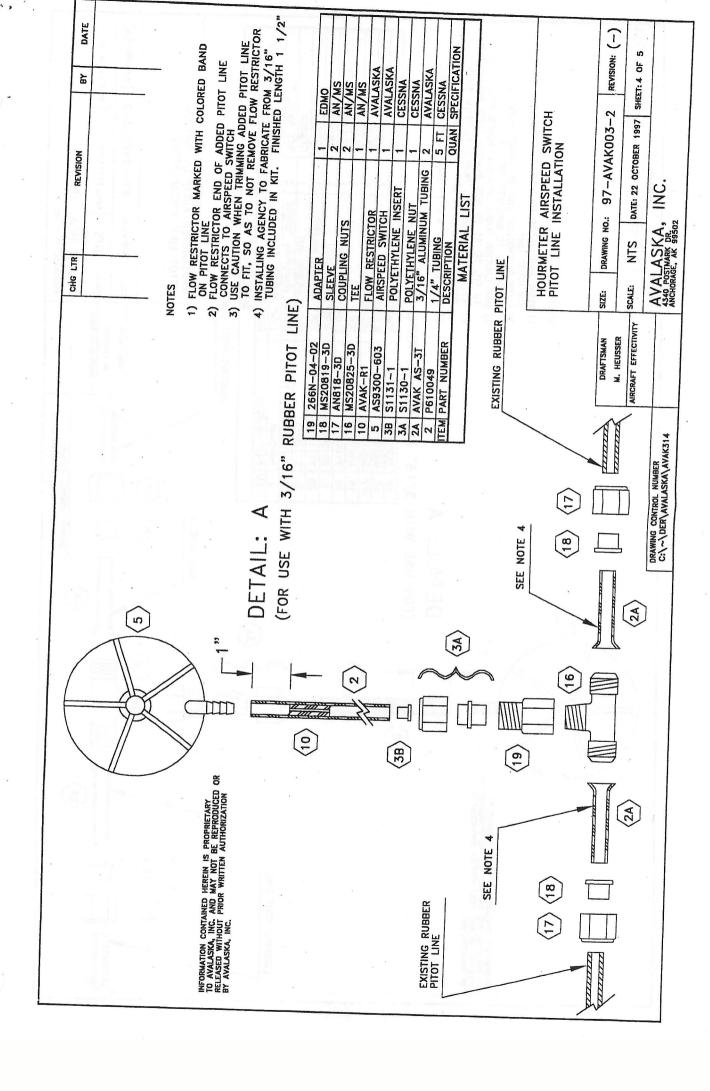
Note: If items 16, 17, 18, 19, 20, 21, 22 and 23 are required for installation, they must be purchased separately.

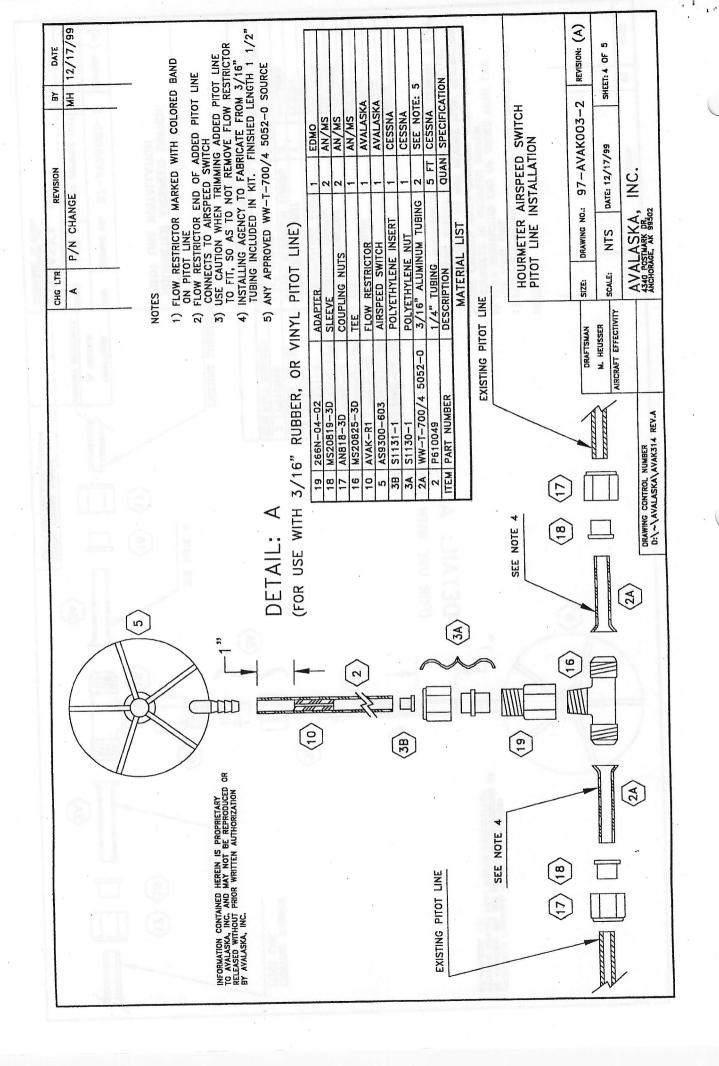
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REPORT/DWG NO. SHT REV DATE DESCRIPTION/TITLE 99-AVAKO06-1 1 (-) 12/17/99 HOURMETER AIRSPEED SWITCH, 97-AVAK003-2 97-AVAK003-2 2 (-) 10/22/97 HOURMETER AIRSPEED SWITCH, 97-AVAK003-2 97-AVAK003-2 3 (-) 10/22/97 HOURMETER AIRSPEED SWITCH, 97-AVAK005-2 97-AVAK003-2 4 12/17/99 HOURMETER AIRSPEED SWITCH, 98-AVAK005-2 98-AVAK005-3 1 (-) 12/30/97 HOURMETER AIRSPEED SWITCH, 98-AVAK001-5 96-AVAK001-5 1 (-) 12/17/99 HOURMETER AIRSPEED SWITCH, 98-AVAK002-7 96-AVAK001-5 1 (-) 12/17/99 HOURMETER AIRSPEED SWITCH, 98-AVAK002-7 96-AVAK001-5 1 (-) 12/17/99 HOURMETER AIRSPEED SWITCH, 98-AVAK002-7 98-AVAK005-10M - A 12/17/99 HOURMETER AIRSPEED SWITCH, 98-AVAK005-10M 98-AVAK005-10M - A 12/17/99 HOURMETER AIRSPEED SWITCH, 17/17/99 98-AVAK005-10M - A 12/17/99 HOURMETER AIRSPEED SWITCH, 17/17/99	MASTER DESCRIPTIVE DATA PITOT LINE INSTALLATION WIRING DIAGRAM COMPONENT LOCATIONS PLACARD AND LABEL FLOW RESTRICTOR INSTALLATION INSTRUCTIONS	LIST	
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		IΣ	HOURMETER AIRSPEED SWITCH MASTER DESCRIPTIVE DATA LIST
		DRAFTSMAN SIZE:	DRAWING NO.: 99-AVAKOO6-1 REVISION: ()
	AIR	AIRCRAFT EFFECTIVITY SCALE:	: NTS DATE: 17 Dec. 1999 SHEET: 1 OF 1
	DEAWING CONTROL NUMBER D:\~\AVALASKA\AVAK301D	ANG.	AVALASKA, INC. 4340 POSTMARK DR. ANGCHORAGE, AK 98502

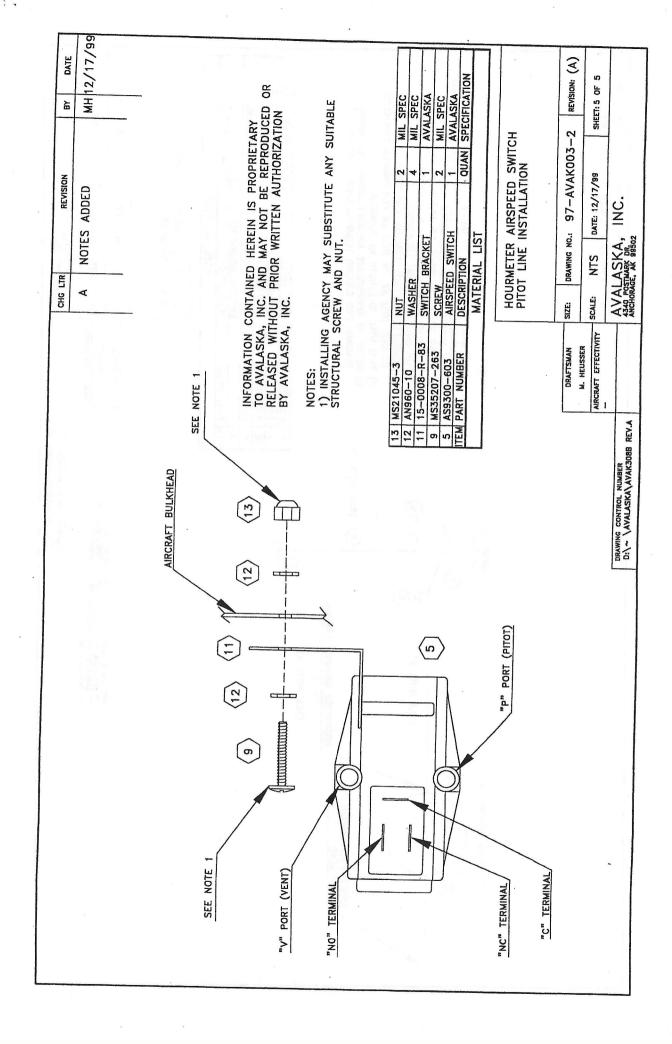




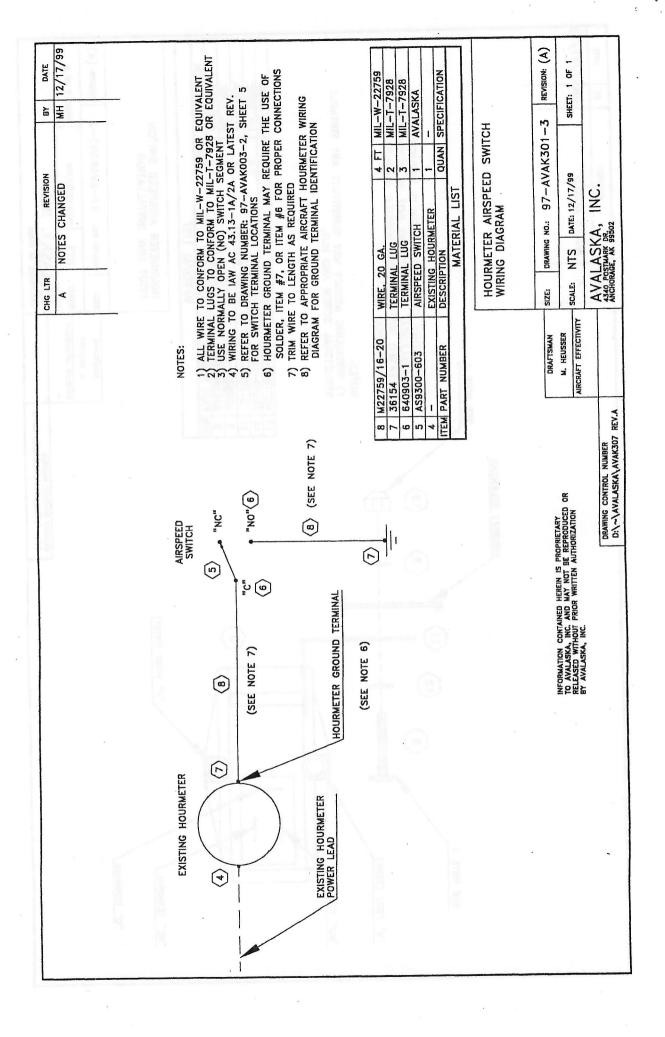


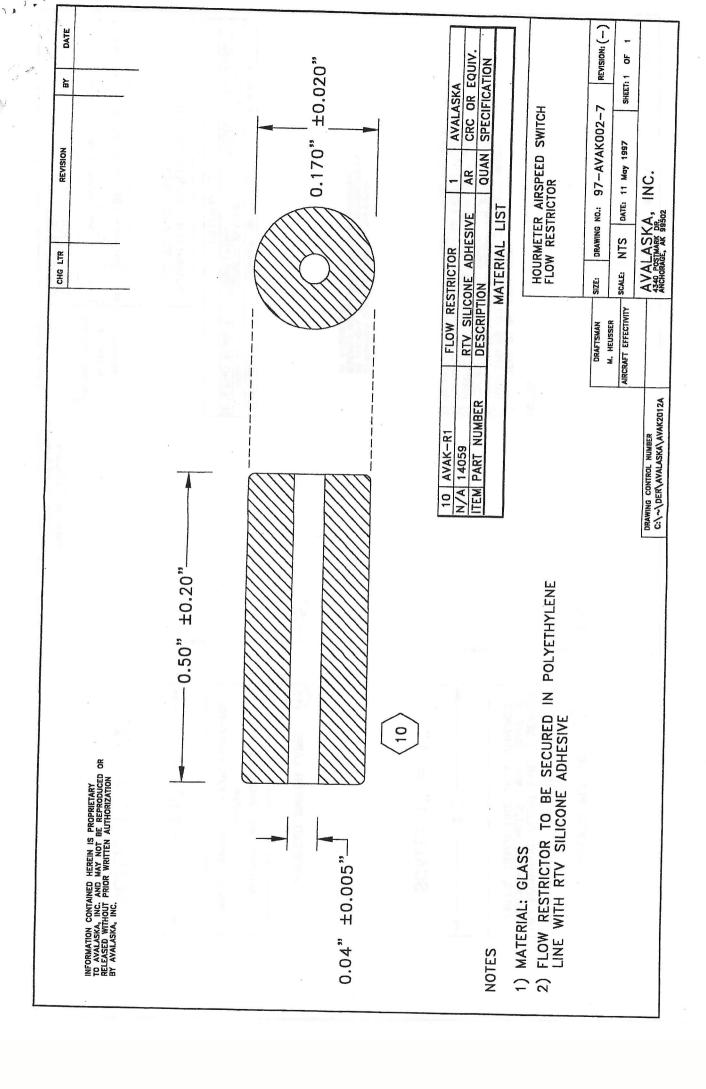


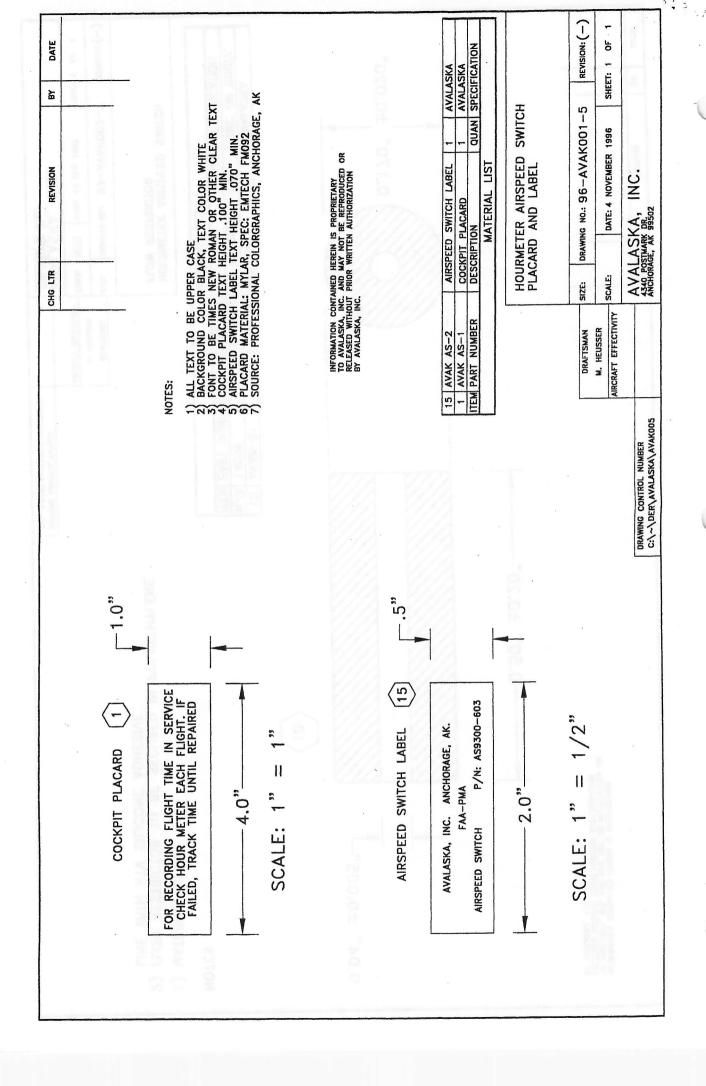


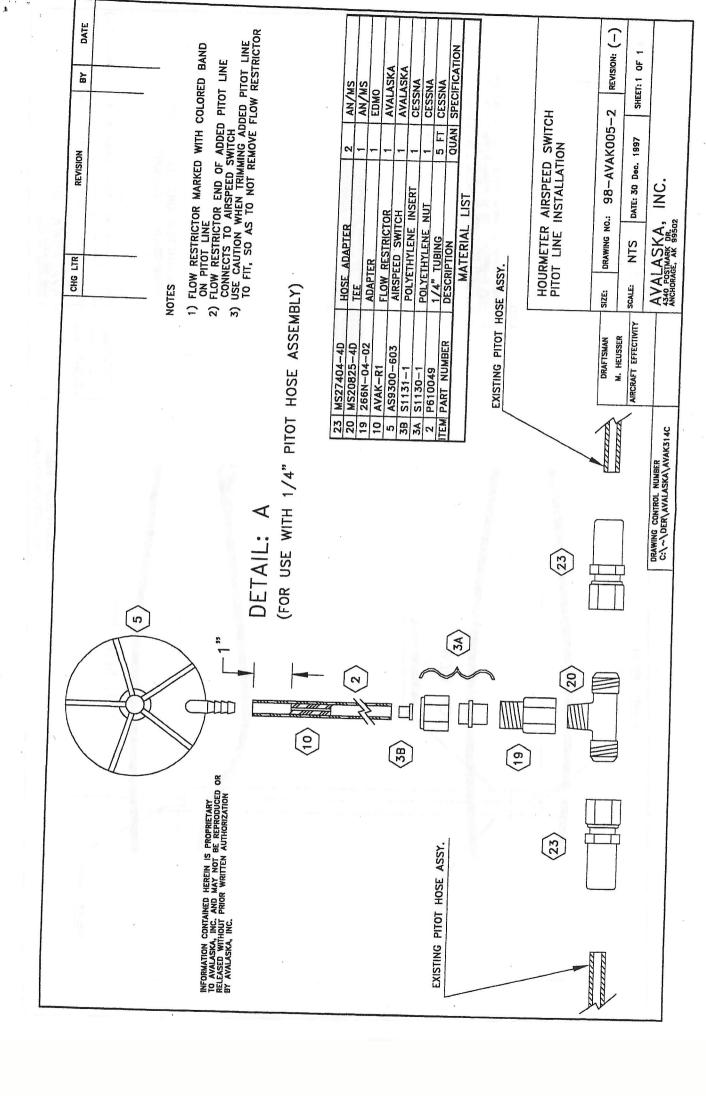


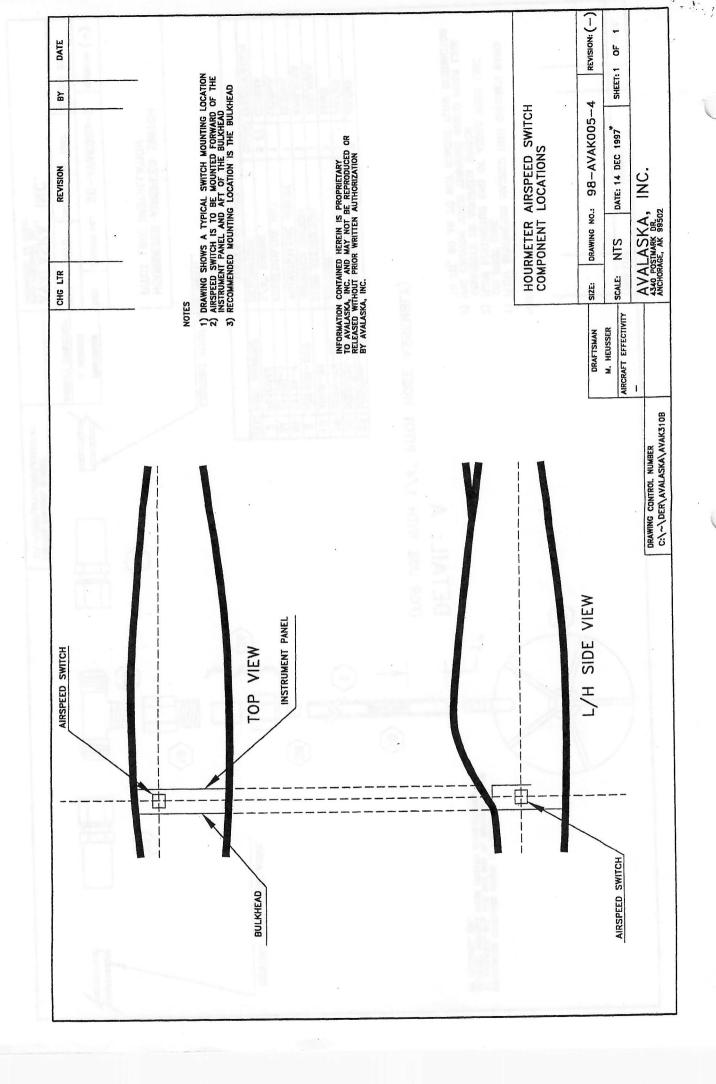
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INSTALLER ON LEFT SIDE NZSBRM 9-23-09 2268.

U.S Department of Transportation
Federal Aviation

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

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

Electronic Tracking Number

Federal Avi Administrat			w1 w11 -	 		riopener, o	- Арриансе)	- 451	For FAA Use Only		
INSTR and dis	UCTIONS: P	rint or type s form. Th	e all entries. See Fi his report is require n 901 Federal Aviat	AR 43.9, F	AR 4	3 Appendix B, and S.C. 1421). Failure	AC 43.9-1 (or subsequer to report can result in a	nt revisio	on thereof) for instructions alty not to exceed \$1,000		
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NOTICE

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

Description of Work Accomplished (If more space is required, attach additional s.				ork complet	ed.)
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2. ENGINE MOUNT PART N	UMBER: 86212-02				
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