US Department
of Transportation
Federal Aviation
Administration

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

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in	structions		ition o	of this f	form.										obsequent revision thereof) for each
		Nationalit	•	Regist	tration	Mark				Serial	No. 3	2-72	2400	89	
1. A	ircraft	Make P	ipe	r						Mode			2-30		Series
		Name (As	show	vn on r	egistr	ation certificate)	ı				•		•	stration	certificate)
2. O	wner	Chris I	Rob	erts					Address 3520 W LAKE DR City Martinez				State GA		
								3. F	or FAA Use	Zip Only	30907	-9530	<del> </del>	Cour	ntry USA
	4. Ty	ре						5. L	Init Identific	ation					
F	Repair	Alteration		Unit			Mal	ке				Mod	tel		Serial No.
		×	AIRF	RAME		Piper			(As described in Item 1 above)			tem 1 ab	32-7240089		
			POW	VERPL	_ANT										
			PRO	PELLE											
			APP	LIANC	:F	Type Manufacturer									
ΔΔ	nency'e	Name and A	ddraed	•					nformity Sta Kind of Agend						
Name		VIONICS LTD	duics				.	<u> </u>	U. S. Certific		nanic			Mar	nufacturer
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City Zip	23321	APEAKE Co	untry _t	USA		State VA	_	×	Certificated I	<u> </u>		nization	<del>,                                    </del>	HM1R	197K RADIO CLASS 1 & 2
D.	have be	een made in	accor	dance	with t	on made to the uithe requirements of the best of my l	s of F	art	ntified in item 43 of the U.S	5 above	and de	escribe	ed on the	e revers and the	se or attachments hereto at the information
	ended ran 14 CFR F . B	•			ŭ	ture/Date of Auth			1/1	14	- Is				SEP 2 7 2021
						7.	Арр	rov	al for Return	to Serv	ice				
						ns specified be ninistration and is		the		ied in it			nspected Rejected	d in th	e manner prescribed by the
BY	1 1.	AA Flt. Stand spector	lards		Manu	ıfacturer		Ma	intenance Or	ganizatio	on		Departn	nent of T	ed by Canadian ransport
זט	F#	VA Designee	,	X	Repa	ir Station		Ins	pection Auth	orization		Othe	r (Specir	(y)	
Certi Desi	ificate or gnation N	10. HM1R	197	'K	Signal	ture/Date of Auth	horiz	ed i	ndividual	/	· 7	L			
				-		NAME D	ate	re	1/1/1	,	/		>		SEP 2 7 2021

#### 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 nat	· ·	ork completed.) 7/2021
	Nationality and Registration Mark	Date
Installed a G3X system with GFC 500 Autopilot. Sys 11 (s/n 56J026163), GSU 25D (s/n 5Q3002460), GE 5DL015905), GEA 24 unit (s/n 2J12005147), G5 (for (s/n 4A8002385), GMC 507 (s/n 5H1007664), GSA 5G9017214)(Pitch-trim), GSA 28 (s/n 5G9017295) (N system is installed under STC SA SA01899WI using 190-02472-01, Rev 9. The G5 was installed under STC SA SA01866WI. All compaystem is installed under STC SA01866WI. All compaystem and share the same CAN-bus architecture. Torder: GEA 24, G5, GSU 25D, GDU 460, GAD 29B, (pitch), GSA 28 (yaw), GSA 28 (pitch trim) as termin with GFC 500 Install Manual Addendum, Piper Cherowas installed in the center radio stack and the go-ard of the throttle quadrant as shown in sheet 3/22 of 190 was installed on the yoke. The removal of the originate forward trim cable with MC62701-041 trim cable of the GFC 500 Gain Addendum (Cherokee 6) 005-014 system and the existing GTN 650 was wired in accord 190-02472-01 Rev 9. The G3X system was interface parameters found on pg. C-3 of 190-02472-01, which Power is provided to the components from the bus as (7274-2-15), G5 (7274-2-5), USB power (7274-2-4.)	OU 460 (s/n 3380409909), Go backup attitude) (s/n 4JQ0 28 (s/n 5G9017278) (Pitch), Yaw), GSA 28 (5G9017203) data found in the G3x installed at the referenced G3X manual. The CAN bus system was wordered G3X (roll) G3 (roll) G3 (roll) G3 (roll) G3X (roll)	GAD29B (s/n 151371), GAD 27 GSA 28 (s/n (Roll). The overall flation manual, found both within The GFC 500 with the G3X fired in the following MU 11, GSA 28 d in accordance B. The GMC 507 flove and to the left disconnect switch the replacement of the modern of the modern of the G3X for the GMC 507 flower and the G3X for the G3X f
The GEA 24 engine monitoring system was installed engine gauges with the exception of the fuel-tank quausing data from Fig B46 of 190-02472-01 and makes resistors in the line. Pressure sensors are installed a Kavlico pressure sensors (P4055-5050-1, -4, -3) are fuel pressure, respectively. Oil temperature is measured that EGT sensors were installed using the Arespectively. Thermocouple wire was used where spectively.	antity indicators. Engine RI use of P-lead sensors with using data from Fig B-40 of used for manifold pressure, ured using the existing K-Ty Alcor 86252, 86255 probes to	PM is measured 400K Ohm 190-02472-00. oil pressure, and pe thermocouple. for CHT and EGT

Additional Sheets Are Attached

Instructions for continued airworthiness are found in 190-02472-02, and the appropriate portions of Appendix A detailing the installation were filled out and included in the maintenance records. AFMS 190-01754-01, Rev 4 was added to the POH. For the G5, Instructions for continued airworthiness are found in the AML STC Maintenance manual 190-01112-11. The appropriate appendices as referenced in Section 6.4.1 of 190-01112-10 were completed to detail this specific installation and were added to the maintenance records. AFMS 190-01112-13 Rev 6 was completed and added to the POH. Instructions for continued airworthiness for the GFC 500 system are found in 190-02291-01 and the appropriate parts of Appendix A were completed and inserted in the aircraft maintenance records. For the GFC 500, AFMS 190-02291-47, Rev 4 was added to the POH.

Installed GTX 345. Installed GTX 345 (s/n 3EG042021) under STC SA01714WI in accordance with data found within 190-00734-00, Rev 15. Data to support the ADS-B functionality is drawn from the existing GTN 650 in accordance with Fig B11 of 190-00734-00 and Fig B17 of 190-00734-00. The GSU 25D serves as the encoder for the system (see G3X installation) and the configuration module is also not needed for this installation. Power is provided from an existing 3A push pull breaker. The unit was tested and found to comply with the requirements of 15 CFR 91.227. Instructions for continued airworthiness are found within the Maintenance Manual 190-00734-11, Rev 8. Appendix A was filled out as required and added to the aircraft maintenance records. AFMS 190-00734-15, Rev 5 was added to the POH.

An electrical load analysis was performed and loading meets the requirements of AC 43.13-1B, Chapter 11, section 3 - 37, and AC.13-2A, paragraph 27d. All affected aircraft systems were tested in accordance with AC43.13-2A, paragraph 10 and 21.a.[6] and it was determined that there is no adverse interference to or from the newly installed equipment. Work involving metal repair or alteration complies AC 43.13-1B, Chapter 4, sections 1 & 4. Materials and practices comply with AC 43.13-2A, Chapter 1, paragraphs 4 through 12. Hardware and materials used conform to AC 43.13-1B, Chapter 7. Circuit breakers, switches, relays and other electrical hardware is of the type recommended by the aircraft manufacturer or is MIL SPEC approved for aircraft use and meets the requirements of AC 43.13-1B, Chapter 11, section 4. Electrical/Electronic wire type was selected and installed in accordance with AC 43.13-1B, Chapter 11, section 6, 7 & 8, and AC 43.13-2A, Chapter 2, paragraph 27. Wire routing, lacing and tying complies with AC 43.13-1B, Chapter 11, section 10 through 19. The electronic equipment installation complies with the aircraft and equipment manufacturer's instructions and AC 43.13-2A, Chapter 2, paragraph 21 through 26. Instrument installation complies with AC 43.13-2A, Chapter 11. The equipment list is amended and the new weight and balance is computed and entered in the aircraft records in accordance with AC 43.13-1B Chapter 10, section 2-16 & 19 And AC 43.13-2A Chapter 1, paragraph 9 and 12.

Mark E. Peters

SEP 2 7 2021



#### 1200 East 151st Street Olathe, KS 66062 P: 913-397-8200 F: 913-397-8282

July 22, 2020

Subject: Authorization for STC Use
AML STC SA01899WI for G3X Touch Electronic Flight Instrument System

Garmin authorized dealers are hereby granted permission to use Garmin AML STC SA01899WI data to modify aircraft.

Robert Murray

Director, Aircraft Certification Garmin International, Inc.

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# United States of America Department of Transportation Federal Aviation Administration

## Supplemental Type Certificate

Number: SA01899WI

This certificate issued to: Garmin International, Inc. 1200 East 151st Street Olathe, KS 66062

certifies 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 Aviation Regulations.

Original Product - Type Certificate Number:

Make:

Multiple - AML STC

Model: See Approved Model List (AML) SA01899WI for approved aircraft models and applicable airworthiness regulations

Description of Type Design Change:

Installation of Garmin G3X Touch Electronic Flight Instrument System Data Required:

- (1) Garmin Master Drawing List (MDL) 005-01320-00, Revision 1, dated March 15, 2019
- (2) Garmin G3X STC Maintenance Manual including ICA190-02472-02, Revision 1, dated March 15, 2019
- (3) Garmin G3X Airplane Flight Manual Supplement 190-01754-01, Revision 1, dated March 15, 2019 Later FAA-approved revisions to the data listed above are incorporated without amendment to this certificate Limitations and Conditions:
- (1) Compatibility of this design change with previously approved modifications must be determined by the installer.
- (2) Installation of G3X in aircraft certified for IFR must have standby instruments for attitude, airspeed and altitude. Permitted standby instrument configurations and other limitations are defined in the data shown in the Master Drawing List (MDL) identified above.

(continued on Page 3)

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

Date of Application: May 15, 2018

Date Reissued:

Date of Issuance: March 15, 2019

Date Amended: December 20, 2019; February 12, 2020

By Direction of the Administrator

Title Paul Mast

Sianature

ODASTC Unit Administrator

ODA-240087-CE

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 or made available to third persons by licensing agreements in accordance with 14 CFR 21.47. Possession of this Supplemental Type Certificate (STC) document by persons other than the STC holder does not constitute rights to the design data nor to after an aircraft, aircraft engine, or propeller. The STC's supporting documentation (drawings, instructions, specifications, flight manual supplements, etc.) is the property of the STC holder who allows a person to use the STC to alter an aircraft, aircraft engine, or propeller must provide that person with written permission acceptable to the FAA. (Ref. 14 CFR 21.120).

### FAA Approved Model List (AML) STC SA01899WI

Aircraft Make (TCDS Holder) [common name or previous make]	Aircraft Model (alias)	Type Certificate Number	TC Certification Basis*	MDL 005-01320-00 Rev.**	AML Date	Limitations
Mooney (Mooney Aircraft Corporation)	M22	A6SW	CAR 3	1	Mar 15, 2019	
Nardi (Nardi S.A.) [Siai Marchetti]	FN-333	7A5	CAR 3/10	1	Mar 15, 2019	
Navion (Sierra Hotel Aero, Inc.)	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	1	Mar 15, 2019	
Pacific Aerospace Limited. (Pacific Aerospace Ltd.) [Found Aircraft Canada, Inc]	FBA-2C, FBA-2C1 (Bush Hawk), FBA-2C2 (Bush Hawk XP)	A7EA	CAR 3 FAR 23	1	Mar 15, 2019	
Piper Aircraft, Inc. (Piper Aircraft, Inc.)	PA-16, PA-16S	1A1	CAR 3	1	Mar 15, 2019	
Piper Aircraft, Inc. (Piper Aircraft, Inc.)	PA-18, PA-18 "105", PA-18 "125" (Army L-21A), PA-18S, PA-18S "105", PA-18S "125", PA-18AS "125", PA-18 "135" (Army L-21B), PA-18A, PA-18A "135", PA-18S "135", PA-18AS "135", PA-18 "150", PA-18AS "150", PA-18AS "150", PA-19 (Army L-18C), PA-19S	1A2	CAR 3	1	Mar 15, 2019	
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	1	Mar 15, 2019	
Piper Aircraft, Inc. (Piper Aircraft, Inc.)	PA-22, PA-22-108, PA-22-135, PA-22S-135, PA-22-150, PA-22S-150, PA-22-160, PA-22S-160	1A6	CAR3	1	Mar 15, 2019	
Piper Aircraft, Inc. (Piper Aircraft, Inc.)	PA-24, PA-24-250, PA-24-260, PA-24-400	1A15	CAR 3	1	Mar 15, 2019	
Piper Aircraft, Inc. (Piper Aircraft, Inc.)	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-28R-200, PA-28R-201, PA-28R-201T, PA-28RT-201, PA-28RT-201T, PA-28-236	2A13	CAR 3	1	Mar 15, 2019	(1)(2)
Piper Aircraft, Inc. (Piper Aircraft, Inc.)	PA-38-112	A18SO	FAR 23	1	Mar 15, 2019	
Piper Aircraft, Inc. (Piper Aircraft, Inc.)	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-32-301FT, PA32-301XTC	A3SO	CAR 3	1	Mar 15, 2019	(1)(2)
Polskie Zaklady Lotnicze Spolka zo.o (Polskie Zaklady Lotnicze Spolka zo.o) [PZL MIELEC]	PZL M26 01	A44CE	FAR 23	1	Mar 15, 2019	
Revo, Inc. (Revo, Incorporated)	Colonial C-1, Colonial C-2, Lake Model 250	1A13	CAR 3	1	Mar 15, 2019	
[Lake]	Lake LA-4, Lake LA-4A, Lake LA-4P, Lake LA-4-200	1		5	Dec 20, 2019	

Issued: March 15, 2019

Amended: December 20, 2019

September 27, 2021

Subject: Permission to Use FAA STC SA01818WI or EASA STC 10060846, or EASA STC 10064473 Installation of Garmin G5 Electronic Flight Instrument See Approved Model List (AML) for Approved Aircraft Models

Pursuant to 49 U.S.C.	44704, 14 CFR § 21.1	20, 14 CFR § 91.403(	d), FAA Order 8110.48	and FAA Adv	isory Circular
21-40; Garmin Interna	ational, Inc. hereby gr	rants permission to _	Chris Roberts	owne	r/operator of
Piper	PA-32-300	bearing manufac	turer's serial number _	32-7240089	_ to use FAA
Supplemental Type C	ertificate SA01818W	I and deliverable da	ita associated with it,	for the sole	and express
purpose of installation	n and approval of th	ne installation of a C	Garmin G5 Electronic F	light Instrum	nent into the
above referenced airc	craft. Installer must s	till verify airframe el	ligibility per STC SA018	318WI and th	ne associated
<b>Approved Model List</b>	(AML). Following mod	dification per STC SA	01818WI, a copy of thi	s permission	letter should
be placed in the aircra	aft's permanent recor	ds. Alteration or rep	roduction of this letter	is strictly pro	hibited.

For Aircraft registered in an EASA state, EASA STC 10060846 (EASA Validation of US FAA STC SA01818WI) may be used in the same manner as STC SA01818WI, provided the aircraft is listed on the AML for STC SA01818WI and the aircraft also has a EASA Type Certificate.

For Aircraft registered in an EASA state but not on the FAA STC, EASA STC **10064473** may be used in the same manner as STC SA01818WI, provided the aircraft is listed on the EASA Approved AML 005-01112-46 for STC 10064473.

Robert G. Murray

Director, Aircraft Certification Garmin International, Inc.

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# United States of America Department of Transportation Federal Aviation Administration

## Supplemental Type Certificate

Number: SA01818WI

This certificate issued to: Garmin International, Inc. 1200 East 151st Street Olathe, KS 66062

certifies 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 Aviation Regulations.

Original Product - Type Certificate Number:

Make:

Multiple - AML STC

Model: See Approved Model List (AML) SA01818WI for approved

aircraft models and applicable airworthiness regulations

Description of Type Design Change:

Installation of Garmin G5 Electronic Flight Instrument Data Required:

- (1) Garmin Master Drawing List (MDL) 005-01112-01, Revision 1, dated July 22, 2016
- (2) Garmin G5 STC Maintenance Manual including ICA 190-01112-11, Revision 1, dated July 22, 2016
- (3) Garmin G5 Airplane Flight Manual Supplement 190-01112-13, Revision 1, dated July 22, 2016

Later FAA-approved revisions to the data listed above are incorporated without amendment to this certificate

#### Limitations and Conditions:

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

(2) The installation of the G5 requires the retention of the mechanical airspeed indicator, altimeter, and vertical speed indicator. If the G5 is installed as the primary attitude, it requires retention of the existing rate of turn indicator. If installed in place of the rate of turn indicator, it requires retention of the existing primary attitude indicator. (continued on Page 3)

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

Date of Application: May 5, 2016

Date Reissued:

Date of Issuance: July 22, 2016

Date Amended: April 28, 2017

By Direction of the Administrator

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ரும் Robert G. Murray

**ODA STC Unit Administrator** 

ODA-240087-CE

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 or made available to third persons by licensing agreements in accordance with 14 CFR 21.47. Possession of this Supplemental Type Certificate (STC) document by persons other than the STC holder does not constitute rights to the design data nor to alter an aircraft, aircraft engine, or propeller. The STC's supporting documentation (drawings, instructions, specifications, flight manual supplements, etc.) is the property of the STC holder. An STC holder who allows a person to use the STC to alter an aircraft, aircraft engine, or propeller must provide that person with written permission acceptable to the FAA. (Ref. 14 CFR 21.120).

#### FAA Approved Model List (AML) STC SA01818WI

Aircraft Make (TCDS Holder) [common name or previous make]	Aircraft Model (alias)	Type Certificate Number	TC Cert. Basis*	MDL 005-01112-01 Rev.**	AML Rev. Date	Limitations
Mooney (Mooney International Corporation) [Mooney Aviation Company, Inc.; Mooney Airplane Co.; Mooney Aircraft Corporation; Aerostar Aircraft Corp]	M20, M20A, M20B, M20C, M20D, M20E, M20F, M20G, M20J, M20K, M20L, M20M, M20R, M20S	2A3	CAR 3	1	July 22, 2016	
Mooney (Mooney Aircraft Corporation)	M22	A6SW	CAR 3	1	July 22, 2016	
Moravan (Moravan National Corporation)	ZLIN 526L	A30EU	FAR 23	1	July 22, 2016	
Nardi (Nardi S.A.) [Siai Marchetti]	FN-333	7A5	CAR 3/10	1	July 22, 2016	
Navion (Sierra Hotel Aero, Inc.)	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	1	July 22, 2016	
Piaggio (Piaggio & C.)	P.136-L, P.136-L1	A-813	CAR 3/10	1	July 22, 2016	(3)
Piper Aircraft, Inc. (Piper Aircraft, Inc.)	PA-18 "125" (Army 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-18A "150", PA-18S "150", PA-18AS "150", PA-19 (Army L-18C), PA-19S	1A2	CAR 3	1	July 22, 2016	
	PA-18, PA-18S, PA-18A			1	Aug 22, 2016	
	PA-18S "105"			5	April 28, 2017	·
Piper Aircraft, Inc. (Piper Aircraft, Inc.)	PA-20, PA-20S, PA-20 "115", PA-20 "135", PA-20S "135"	1A4	CAR 3	1	Aug 22, 2016	
Piper Aircraft, Inc. (Piper Aircraft, Inc.)	PA-22, PA-22-108, PA-22-135, PA-22S-135, PA-22-150, PA-22S-150, PA-22S-160	1A6	CAR 3	1	Aug 22, 2016	
Piper Aircraft, Inc. (Piper Aircraft, Inc.)	PA-23, PA-23-160, PA-23-235, PA-23-250, PA-E23-250	1A10	CAR 3	1	July 22, 2016	
Piper Aircraft, Inc. (Piper Aircraft, Inc.)	PA-24, PA-24-250, PA-24-260, PA-24-400	1A15	CAR 3	1	July 22, 2016	
Piper Aircraft, Inc. (Piper Aircraft, Inc.)	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-28R-200, PA-28R-201, PA-28R-201T, PA-28RT-201, PA-28RT-201T, PA-28-236	2A13	CAR 3	1	July 22, 2016	
Piper Aircraft, Inc. (Piper Aircraft, Inc.)	PA-38-112	A18SO	FAR 23	1	July 22, 2016	
Piper Aircraft, Inc. (Piper Aircraft, Inc.)	PA-44-180, PA-44-180T	A19SO	FAR 23	1	July 22, 2016	(1)(2) (3)
Piper Aircraft, Inc. (Piper Aircraft, Inc.)	PA-30, PA-39, PA-40	A1EA	CAR 3	1	July 22, 2016	
Piper Aircraft, Inc. (Piper Aircraft, Inc.)	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-32-301T, PA-32-301TT, PA32-301XTC	A3SO	CAR 3	1	July 22, 2016	

Issued: July 22, 2016 Revised: April 28, 2017 December 21, 2017

SUBJECT: Authorization for STC Use

AML STC SA01866WI

Garmin authorized dealers are hereby granted permission to use Garmin AML STC SA01866WI data to modify aircraft.

Robert Murray

Director, Aircraft Certification Garmin International, Inc.



# United States of America Department of Transportation Federal Aviation Administration

## Supplemental Type Certificate

Number: SA01866WI

This certificate issued to: Garmin International, Inc. 1200 East 151st Street Olathe, KS 66062

certifies 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 Aviation Regulations

Original Product - Type Certificate Number:

Make:

Multiple - AMLSTC

Model: See FAA Approved Model List (AML) SA01866WI for approved aircraft models and applicable airworthiness regulations

Description of Type Design Change:

Installation of Garmin GFC 500 Autopilot with Electronic Stability and Protection Data Required:

- (1) Garmin Master Drawing List (MDL) 005-01264-00, Revision 1, dated December 21, 2017
- (2) Garmin GFC 500 Automatic Flight Control System Part 23 AML STC Maintenance Manual (includes Instructions for Continued Airworthiness) 190-02291-01, Revision 1, dated December 21, 2017

Later FAA-approved revisions to the data listed above are incorporated without amendment to this certificate

#### Limitations and Conditions:

- (1) Compatibility of this design change with previously approved modifications must be determined by the installer.
- (2) Aircraft modified by this STC must be operated in accordance with the Airplane Flight Manual Supplement (AFMS) identified on the Approved Model List.
- (3) Aircraft modified by this STC must be maintained in accordance with the Instructions for Continued Airworthiness (ICA) identified above. (continued on Page 3)

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

Date of Application: August 24, 2017

Date Reissued:

Date of Issuance: December 21, 2017

Date Amended: March 15, 2019; May 4, 2020; September 10, 2020,

October 15, 2020; November 13, 2020

By Direction of the Administrator

E-11. E-1-1.

ODA STC Unit Administrator

ODA-240087-CE

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 or made available to third persons by licensing agreements in accordance with 14 CFR 21.47. Possession of this Supplemental Type Certificate (STC) document by persons other than the STC holder does not constitute rights to the design data nor to alter an aircraft, aircraft engine, or propeller. The STC's supporting documentation (drawings, instructions, specifications, flight manual supplements, etc.) is the property of the STC holder. An STC holder who allows a person to use the STC to alter an aircraft, aircraft engine, or propeller must provide that person with written permission acceptable to the FAA. (Ref. 14 CFR 21.120).

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#### FAA Approved Model List (AML) STC SA01866WI

Aircraft Make (TCDS Holder) [common name or previous make]  Aircraft Model		Type Certificate Number	TC Certification Basis*	MDL 005-01264-00 Rev.**	AML Amended Date	AFMS Part Number	AFMS Rev. **
Aviat Aircraft, Inc. (Aviat Aircraft, Inc.) [Aviat]	A-1, A-1A, A-1B, A-1C-180, A-1C-200	A22NM	FAR 23	30	5/4/20	190-02291-39	1
Cirrus Design Corporation (Cirrus Design Corporation) [Cirrus]	SR22 (S/N 22-0002 thru 22-4434) (except those with G1000)	A00009CH	FAR 23	42	11/13/20	190-02291-55	1
Mooney (Mooney International Corporation) [Mooney]	M20M, M20R, M20S (except those with G1000)	2A3	CAR 3 FAR 23	11	1/18/19	190-02291-18	1
	M20J, M20K	1		14	3/14/19	190-02291-20	1
	M20F, M20G		CAR 3	40	10/15/20	190-02291-64	1
	M20C (S/N 2742, 2807 and later) M20D (S/N 252-260) M20E (S/N 400, 470 and later)			44	12/01/20	190-02291-70	1
Piper Aircraft, Inc. (Piper Aircraft, Inc.) [Piper]	PA-28-150, PA-28-160, PA-28-180, PA-28-151, PA-28-161, PA-28-181 (except those with G1000)	2A13	CAR 3 FAR 23	4	3/16/18	190-02291-07	1
	PA-28-140			8	8/29/18	190-02291-07	3
	PA-28R-180, PA-28R-200, PA-28R-201, PA-28R-201T			20	7/30/19	190-02291-29	1
	PA-28-201T			22	10/15/19	190-02291-48	1
	PA-28-236					190-02291-34	1
	PA-28-235			24	12/19/19	190-02291-53	1
	PA-28RT-201			26	02/28/20	190-02291-60	1
	PA-28RT-201T			26	02/28/20	190-02291-50	1
	PA-32R-300, PA-32R-301(SP), PA-32R-301(HP), PA-32R-301T	A3SO	CAR 3 FAR 23	21	7/30/19	190-02291-27	1
	PA-32-260, PA-32-300			22	10/15/19	190-02291-47	1
	PA-32-301, PA-32-301T, PA-32-301FT, PA-32-301XTC (except those with G1000)			24	12/19/19	190-02291-27	2
	PA-32RT-300	]		31	5/13/20	190-02291-65	1
	PA-32RT-300T	]		31	5/13/20	190-02291-52	1
SOCATA	TB20, TB21 (S/N 275 thru 2184, 2191, 2192, 2194, 2195, 2196, and 2203)	A51EU	FAR 23	50	3/3/21	190-02291-73	1
	172E	3A12	CAR 3	5	5/11/18	190-02291-02	2

Issued: 12/21/17

Amended: 3/03/21

1200 East 151st Street Olathe, KS 66062 P: 913-397-8200 F: 913-397-8282

July 11, 2018

Subject:

Authorization for STC Use

AML STC SA01714WI

Garmin authorized dealers are hereby granted permission to use Garmin AML STC SA01714WI data to modify aircraft.

**Emmett Griffith** 

Director of Engineering Garmin International, Inc.

#### United States of America

### Department of Transportation -- Federal Aviation Administration

## Supplemental Type Certificate

Number SA01714WI

This certificate issued to

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

certifies 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 Aviation Regulations.

Original Product-- Type Certificate

Number: Model:

\* See attached Approved Model List (AML) No. SA01714WI dated May 1, 2013 or later FAAapproved revision for list of approved aircraft models and applicable airworthiness regulations.

Description of Type Design Change:

Installation of Garmin transponders: (a) GTX 330/330D/33/33D or GTX 335/335R/335D/335DR with ADS-B Out functionality; (b) GTX 345/345R/345DR with ADS-B Out and In functionality; (c) GTX 335R/335DR with ADS-B Out functionality in select airplanes installed with G950/G1000 systems; or (d) GTX 345R/345DR with ADS-B Out and In functionality in select airplanes installed with G950/G1000 systems.

#### Data Required:

- (1) Garmin Master Drawing List (MDL) 005-00734-04, Revision 1, dated May 1, 2013 or later FAA-approved revision.
- (2) Garmin Airplane Flight Manual Supplement or Supplemental Airplane Flight Manual (AFMS), 190-00734-15, Revision 1, dated May 1, 2013 or later FAA-approved revision.

#### Limitations and Conditions:

- (1) Compatibility of this design change with previously approved modifications must be determined by the installer.
- (2) Aircraft installations involving the Garmin transponder models without an internal GPS require the previous installation of an approved ADS-B position source. Refer to the design data specified in the Master Drawing List (MDL) listed above for specific hardware and software requirements.

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 othervise established by the Administrator of the Federal Aviation Administration.

Date of application: August 7, 2012

Date reissued:

Date of issuance: May 1, 2013

Date amended: April 29, 2014; March 8, 2016; September 9, 2019

By direction of the Administrator

**ODA STC Unit Administrator** Garmin International, Inc.

(Title)

JR Brownell ODA-240087-CE

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 Model List (AML) STC SA01714WI

Airplane Make (TCDS Holder) [common name or previous make]	Airplane Model Designation	Type Certificate Number	TC Certification Basis (1)	Master Drawing List Revision (005-00734-04)	AML Amendment/Date
	PA-24, PA-24-250, PA-24-260, PA-24-400	1A15	CAR 3	1	Original 5/1/2013
	PA-28-140, PA-28-150, PA-28-151, PA-28-160, PA-28-180, PA-28-201T, PA-28-235, PA-28-236, PA-28S-160, PA-28S-180, PA-28R-180, PA-28R-200, PA-28R-201T, PA-28RT-201, PA-28RT-201T	2A13	CAR 3 FAR 23	1	Original 5/1/2013
	PA-28-161, PA-28R-201, PA-28-181	2A13	CAR 3 FAR 23	1	Original 5/1/2013
	PA-32-260, PA-32-300, PA-32-301, PA-32-301T, PA-32S-300, PA-32R-300, PA-32RT-300, PA-32RT-300T,	A3SO	CAR 3	1	Original 5/1/2013
Piper Aircraft, Inc. (Piper Aircraft, Inc.) [The New Piper Aircraft, Inc]	PA-32R-301(HP), PA-32R-301(SP), PA-32-301XTC, PA-32R-301T, PA-32-301FT	A3SO	CAR 3	1	Original 5/1/2013
	PA-34-200, PA-34-200T, PA-34-220T	A7SO	FAR 23	1	Original 5/1/2013
	PA-38-112	A18SO	FAR 23	1	Original 5/1/2013
	PA-44-180T	A19SO	FAR 23	1	Original 5/1/2013
	PA-44-180	A19SO	FAR 23	1	Original 5/1/2013
	PA-31 (PA-31-310), PA-31-300, PA-31-325, PA-31-350	A20SO	CAR 3 FAR 23	1	Original 5/1/2013
	PA-42, PA-42-720, PA-42-1000	A23SO	FAR 23	1	Original 5/1/2013

Issued: May 1, 2013 Amended: September 9, 2019

<b>3</b>	
US Department of Transportation	

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

Form Approved OMB No. 2120-0020

For FAA Use Only
Office Identification
C = 03 Req

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

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		Make					Model		,	٠.		
í. Air	craft	PIPE	R		·			PA32-300	<del></del>			
		Serial No.					Nationality and Registration Mark N4804T				•	
		No (41	32-7240089		<del></del>			otration o	ortificate)			
İ		Name (As shown on registration certificate) Heller Terry R.				1		As shown on regi		витсаци)		
2. Ou	ner ·		-	<b>7</b>		1	299	Parkland	Ave.			
		Herrer	Randall L	JI.		1	Gle	ndale, Mo	6312	2		
					3. F	or FAA Use On	ly					
					4. L	Init Identification	on			5. Type		
ι	Unit Make					Model		Serial No		Repair	Alteration	
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POWE	RPLANT							*		1.50		
PROPI	ELLER								MAR	k		
APPLI	ANCE	Type Manufacturer	· .			·*.		(,	(Z)	1.004		
				6	. Co	nformity Statem	nent				/	
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		C/O Weiss				Foreign Certifica		nic	A&P 2085571			
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		, Mo. 630			<u> </u>	Manufacturer			L			
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						al for Return To						
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ВҮ		Flt. Standards ector	Manufacturer	x	Insp	ection Authoriza	ation	Other (Specify)				
		Designee	Repair Station		Can	on Approved by ada Airworthine	ss Group					
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EAA	orm 227							~ 000	/ 4 - /	22.2		

#### 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, at ach additional sheets, Identify with aircraft nationality and registration mark and date work completed.) Installed new Brackett air filter assembly model no. BAil5. The air filter assembly is approved under STC.SA693CE. Installed air filter assembly in accordance with STC.SA693CE List no. 1 and Faa-PMA supplement No. 1 Rev. 8-23-88 \*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*

Additional Sheets Are Attached

QU.S. GOVERNMENT PRINTING OFFICE: 1992-769-012/60157

<b>C</b>
US Departmen

## 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

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		Make				Model						
4 . 41		PIPER					PA32-300					
1. Aire	CIMIL	Serial No.					Nationality and Registration Mark					
			2-7240089				N4804T					
		Name (As shown	)		Address (As shown on registration certificate)							
2. Ow	ner	Heller	Terry R.				299	9 Park	land	Ave.		· .
			Randall L	. Jr			Gle	endale	, Mo	631	22	
					3. Fo	or FAA Use O	nly					
					4. U	nit identificat	on				5. Type	
u	Init	Ма	ke			Model		s	erial No.		Repair	Alteration
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		Mo. 6302					<del></del>					
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				7. Ap	prova	l for Return T	o Service		2000	40 11	11111111	
		the authority give								the man	ner prescrib	ed by the
701		Fit. Standards							Specify)			<u>-</u>
BY		ector	Manufacturer	X	Inspe	ection Authoria	ation					,
		Designee	Repair Station		Cana	on Approved b ada Airworthin	ess Group				,	
Date	of Approv	al or Rejection	Certificate or Designation No.		Sign	ature of Auth	orized Indi	ividual	1 2		,	
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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.

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 new Bob Feilds inflateable door seal part no. 3920-32. The door seal is approved under STC. SA4288WE. The installation was done in accordance with Bob Feilds report BFA.310 installation instructions rev. 2 Rev. date Feb, 26,1993 and drawing No. 3920 and Piper Maintenance manual no.753 690. 3. 807 XX XX 2000数据数

(2)
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
STA- FSOO

and dispositi	ONS: Print or type a on of this form. Thi h violation (Section	s report is required	by law	(49 U	J.S.C. 1421). Fa							
	Make			,	~	Model						
1. Aircraft	PIPER					PA 32-300						
	Serial No. 32-7240089					Nationali	ty and Registrati D4T	on Mark				
	Name (As shown	on registration cer	rtificate,	)		Address (	As shown on reg	istration ce	ertificate)			
2. Owner	Terry R. Hel	ler & Randa	11 L.	Нe	ller Jr.		Parkland Av dale, Mo.	e. 63122				
				3. F	or FAA Use Or	nly						
	·								·.			
				4. L	Init Identificati	on			5. Type			
Unit	Make				Model		Serial N	0.	Repair -	Alteration		
AIRFRAME		ribed	in Item 1 abov	/e)				X				
OWERPLANT												
PROPELLER								10V 2 1				
APPLIANCE	Type Manufacturer	·	-					SIL FS	DQ	/		
			6		nformity States			_				
A. Agency's N	ame and Address				Kind of Agency			C. Certif	icate No.	<u>.,,                                    </u>		
	R. Nelson ·	• .		X_	U.S. Certificate			A&P 499	255			
	er Lane				Foreign Certific		nic	AUE 453	333			
St. Fet	ers, No. 633	376			Manufacturer	Jan Station		┥.				
have been	nat the repair and/o n made in accordar I herein is true and	nce with the requir	ements	of Pa	identified in iter art 43 of the U.							
Nov. 14	, 1991			Sig	nature of Autho	orized Indi	vidual <b>Oliver</b>	R. Nels	<b>o</b> n			
			7. Ap	provi	al for Return To	Service						
Pursuant to Administrato	the authority giver or of the Federal Av	n persons specifie iation Administrati	d below	v, the	unit identifie	d in item 4 D □ R	EJECTED		ner prescribe	ed by the		
	Fit. Standards ector	Manufacturer	x	Insp	ection Authoriz	ation	Other (Specify	)				
FAA	Designee	Repair Station		Can	on Approved by ada Airworthine	ness Group						
Date of Approv	al or Rejection	Certificate or Designation No.	71		hodore			e Mattl	nes			
FAA Form 337	(12-88)	,										

#### NOTICE

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

8. Description of Work Accomplished (If more space is required, attach additional sheets, Identify with aircraft nationality and registration mark and date work completed.) Install Walker Engineering Company Air Oil Separator in accordance with STC # SA3839WE , installation instructions and drawing # KW3001-1 dated 7/27/73. жанананананананатик <u>Ки</u>рананананананананананананан The second of th Setupe Lings

Law put without the process and the control of the c ☐ Additional Sheets Are Attached

±U.S.GPO:1989-0-663-171

							Form Approv				
IIS December	•••	AJOR REPAIR		OMB No. 2120-0020 For FAA Use Only							
us Department of Transportation	(Airfran	ne, Powerplan		Office Identification							
Federal Aviation Administration	1						546- F500				
and dispositi	on of this form. This	l entries. See FAR 4: report is required b 901 Federal Aviatio	y law (	49 U.S.C. 1421), Fa	nd AC 43.9 Hure to rep	-1 (or subseque ort can result ir	ent revision the a civil penalt	ereof) for in: y not to exce	structions ed \$1,000		
- N	Make	. 17	;	447	Model .						
1. Aircraft	PIPER Serial No.			PA32-300 Nationality and Registrat			tion Mark				
	32-7.240	089				N4 804T					
	Name (As shown o	on registration certif	licate)			As shown on re	gistration ce	rtificate)			
2. Owner	Heller, Ter	ry R. & Randa	11 .	Jr.		Park Lane dale, Mo.					
	A			3. For FAA Use Or	nly						
4. Unit Identification 5. Type											
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Unit	Mal	ke		Model		Serial	No.	Repair	Alteration		
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	Manufacturer		•								
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	Issouri 630			Manufacturer							
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Date				Signature of Auth	orized Indi	vidual					
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		persons specified	below		d in item 4		d in the mani	ner prescrib	ed by the		
FAA	Flt. Standards	ation Administratio	n and	is X APPROVE		Other (Speci	Ty)				
BY	Designee	Repair Station		Person Approved b Canada Airworthin	y Transport						
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FAA Form 337 12-88)

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

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

Install Appalachian brake rotors part number 75-23. Parts installed under STC SA2337SO. All work done in accordance with Appalachian Accessories installation instructions dated Oct. 1, 1987, YAA revised Oct. 12, 1989, and Piper service manual 753-690 section VI.

☐ Additional Sheets Are Attached

± U.S.GPO:1989-0-663-171

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:	DEPARTMENT OF TRAI		· · · · · · ·	Form Approved Budget Bureau No	. 04- <b>R</b> 06	0.1				
	MAJOR REPAIR AN			FOR FAA	USE ONE	.Y				
			1	OFFICE IDENTIFIC	STIPHES	SBC				
	(Airframe, Powerplant, Pr	opener, or Appliar	ice)		3.0.6					
INSTRUCT for instruction	IONS: Print or type all entries. See one and disposition of this form.	FAR 43.9, FAR 43 Appe	endix B, and AC 43.9-	1 (or subsequent i	evision th	nereof)				
	MAKE	1 1	MODEL							
1. AIRCRAFT	PIPER		PA-32-3	00						
I, AIRCAAI	SERIAL NO.	:	NATIONALITY AND	REGISTRATION MA	RK					
	32-7240089		U.S.	A. N4804T						
٠. '	NAME (As shown on registration certifi	cate)	ADDRESS (As shown o	n registration certifi	cate)					
2. OWNER		i:	299 Parkland Ave.							
	Terry R. and Randal		Glendale, M	0. 63122						
		3. FOR FAA USE ON	ILY							
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	. James, MO 65559	MANUFACTURE	R							
D. I certify attachme	that the repair and/or alteration ments hereto have been made in accord the information furnished herein is	ance with the requireme	ents of Part 43 of the	U.S. Federal Aviat	the revion Regu	erse or lations				
DATE	<del></del>		AUTHORIZED INDIVID							
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34		APPROVAL FOR RETURN T	o banz		<del></del>					
Pursuant to	the authority given persons specified	below, the unit identific	ed in item 4 was inspe	cted in the manne	r prescril	ed by				
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CANADIAN DEPARTMENT
OF TRANSPORT INSPECTOR
OF AIRCRAFT
SIGNATURE OF AUTHORIZED INDIVIDUAL

7-9-86 FAA Form 337 (7-67)

DATE OF APPROVAL OR REJECTION

REPAIR STATION

CERTIFICATE OR DESIGNATION NO. 3574441331A

(8320)

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 craft nationality and registration mark and date	required, attach additional sheets. Identify with air- work completed.)
* The second	
"Installed Precise Flight, Inc.	Standby Vacuum System in accordance
with airframe STC# SA2167NM and	(Lycoming) STC# <u>5E1779NM</u> ."
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st U.S. GPO; 1981 - 775-332/47

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The information normally furnished in Section VIII is on file as part of the historical inspection record at Piper Aircraft Corporation.

Current Airworthiness Certificate issued I/A/W FAR 21.183(a) PER 21.273. Budget Bureau No. 04-R0038

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DEPARTMENT OF TRANSPORTATION FEDERAL AVIATION ADMINISTRATION APPLICATION FOR AIRWORTHINESS CERTIFICATE							INSTRUCTIONS—Print or type. Do not write in shaded areas; these are for FAA use only. Submit original only to an authorized FAA Representative. If additional space is required, use an attachment. For special flight permits complete Sections II and VI or VII as applicable.															
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DEPARTMENT OF	TRANSPORTATION-	S OF AMERICA FEDERAL AVIATION	CATE
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FAA Form 8100-2 (7-67) FORMERLY FAA FORM 1362

GPO: 1967-O-270-931

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DEPARTML OF TRANSPORTATION
FEDERAL AVIATION ADMINISTRATION

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

Form Approved
Budget Bureau No. 04-R060.1

FOR FAA USE ONLY
OFFICE IDENTIFICATION RNO GAD

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.

	MAKE			MODEL	04 70 77			
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5-29-73

SIGNATURE OF AUTHORIZED INDIVIDUAL

Zer R Mr. Mar.

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 RT. STANDARDS MANUFACTURER X INSPECTION AUTHORIZATION

FAA DESIGNATE REPAIR STATION CANADIAN DEPARTMENT OF TRANSPORT INSPECTOR OF AIRCRAFT

DATE OF APPROVAL OR CERTIFICATE OR DESIGNATION NO.

CERTIFICATE OR DESIGNATION NO.

CERTIFICATE OR DESIGNATION NO.

CERTIFICATE OR AUTHORIZED INDIVIDUAL

CENTRAL CONTROL CONT

FAA Form 337 (7-67)

(8320)

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.)

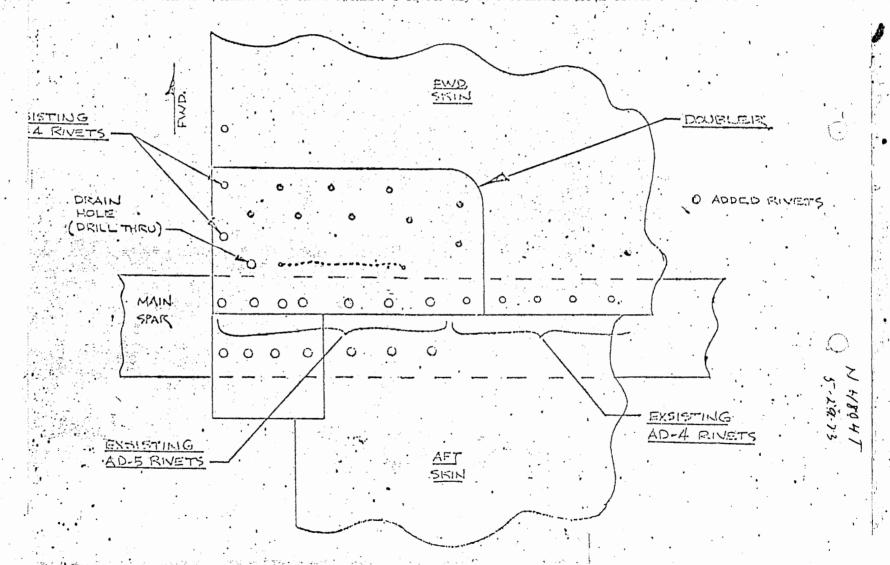
Patched skin crack on right wing butt as per piper repair inst. See attached Piper drawing.

No More Following

( - X ADDITIONAL SHEETS ARE ATTACHED

С FAA AC 72-4906 NOTES: 1. Stop drill ends of crack.

- 2. Install doubler, picking up (7) existing AD-5 rivets and at least (1) AD-4 rivet in main spar.
  Pick up (2) existing AD-4 rivets and add (9) AD-4 rivets; see sketch below.
- 3. Doubler material: 2024-73 Alum.; .032," thick.
- 4. Maintain 4D rivet spacing between rivets. Maintain 2D rivet spacing edge distance.
- 5. CR2163-4/CR2249-4 or CR163-5/CR2249-5 rivets may be substituted for AD rivets as required.



### 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 LLS C, 1421). Failure to report can result in a civil panelty 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.

8. Description of Work Accomplished

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

Remove old rudder skin, install new rudder skin part number 63396-002. Installed new skin in accordance wit# Piper Cherokee Six Service Manual part number 753-690 Rev. 7/12/87, per section 4, para 4-19 (structure repairs to be made in accordance with AC43-13-1A).

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Part installed in accordance with AC 43-13-1A, section 3 para. 99 (a),(b),(c), using original rivet design, size and pattern.

Control surface static balanced per Piper Service Manual.

### US Department of Transportation Federal Aviation

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

Form Approved 95/0776 OMB No. 2120-0020

For FAA Use Only

Office Identification

e Only

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			Make						Model , PA32-300					
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04-17-1995 1А499322094 ноуда						HOWARD WIL	LIAMS			3	• .			

#### 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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ο.	Description	OI WORK	Accomplished

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

- 1. INSPECT PREVIOUS REPAIR BY PERSONS UNKNOWN AT 5 LOCATIONS (2 ON LEFT WING TOP SKIN AT STRINGER AND RIB JUNCION, 3 IDENTICAL REPAIRES ON RIGHT WING)
- 2. REPAIR WAS I/A WITH PIPER PA32-300 SERVICE MANUAL AND XX A/G:43.13-1A
- 3. PA32-300 SERVICE MANUAL FICHE 1F6 FIG 4-3 FOR APPROVED MATERIALS (032 2024-T3)

4. A/C 43.13.1A PAGE 59, PAR.100 PATCH SIZE, DESIGN, RIVIT SPACING, FIG.2.24 5. A/C 43.13.-A PAGE 60, PAR. 100 E,(2) (a) FOR RIVIT SIZE 6. CR9163-4-2 RIVITS USED ☐ Additional Sheets Are Attached