US Department
of Transportation
Federal Aviation

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

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

Federal Avia Administration	tion	(Airframe, F	owerplant,	Pro	pe	lle	r, or A	ppl	iance) 								
instruction	s and dispos	t or type all entrie sition of this form 9 U.S.C. §46301	. This report is re	CFR equir	§43 ed	3.9, by (Part 43 aw (49 U	App J.S.(endix B, a C.§44701	and). Fa	AC 43	3.9-1 (to rep	or subse	equent rev	vision th	nereof) for	or
1. Aircraft	Nationa N2288	lity and Registrat							Serial No. 28-2196								
1. All Clair	Make Piper								Model PA28-1	180				Series			
2. Owner		(As shown on registration certificate) Foreman						Address (As shown on registration certificate) Address 17 kincraig dr. City Valparaiso State IN Zip 46385 Country USA									
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FAA Form 337 (10-06)

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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.)

N2288Z

02-01-2019

Nationality and Registration Mark

Date

Removed the following equipment: Vacuum 215cc pump and hose, Vacuum Regulator and hoses, Precise stby Vacuum system, Attitude gyro & DG and hoses, TKMMX11 & TKM MX12 Comm/Nav, Suction gauge, clock, GPS CDI, (2) Altitude encoders, Apollo GPS, Apollo 2001 GPS, AT150 Transponder, KN-75 GS receiver, KI-209 Indicator.

Installed the following equipment: (2) Garmin G5's & stby battery, Garmin GTN650, King/Bendix KY-196, Garmin 335 Transponder, GAD29, GMU11.

Garmin GTN650 P/N 01-00813-50, S/N 1Z8016474 & Antenna GMA-35 antenna.

- -Installed IAW Garmin Installation Manual # 190-01004-02 Aprial 2018, Rev "R". STC# SA02019SE-D Dated: 03/18/2011.
- -The GTN650 ground and flight evaluation confirmed performance as outlined in A.C. 20-138C.
- -Weight and Balance was computed, and placed in the aircrafts P.O.H.
- -Instructions for continued Airworthiness # 190-01007-A1 dated: 03/04/2011 Included in the Aircraft Documents.
- -Equipment list revised, and flight manual supplement installed in aircraft P.O.H.
- -FAA 337 form included in the aircraft documents.
- Installed (2) Garmin G5's S/N 4JQ018896 & S/N 41Q018940.G5 Installation Kit # 010-12493-10. GMU11, S/N 56J007844. GAD29, S/N 5DL003190. IAW Garmin Master Drawing List 005-01112-01 Rev7 June, 2017 and FAA STC # SA01818WI. Aircraft Model is on the AML for this STC. Installed using Garmin STC Installation Manual 190 -01112-10 Rev 7, Dated: June 2017.
- -Installed G5 units in pilots instrument panel in place of removed air driven Attitude & DG. Configured the G5 using the speeds in the POH and per the STC Install Manual. G5 checked good per the post installation tests of the Installation Manual.
- -Inserted G5 AFMS 190-01112-13 Rev2, Dated 4/28/2017 into POH supplements section.
- -Instructions for Continued Airworthiness Dated: 4/28/2017 included in the aircraft documents.
- -Updated weight and balance and equipment list. Flied FAA form 337 form.
- Installed GTX335 transponder with ADS-B out functionality IAW FAA STC AML #SA01714WI Dated: Oct 18, 2016 and Master Drawing List # SA01714WI Dated: March 8, 2016. This aircraft model is listed on the AML for this STC.
- -Interfaced the GTX335 to the GTN650 as approved GPS position source and for control/display of the GTX335.
- Pressure altitude is provided by Garmin 011-03080-01 altitude encoder.
- -The GTX335 was configured and tested per the installation manual and FAR 43 App E App C and F. transponder tested good. A copy of the configuration information has been placed with the aircraft permanent records.
- This installation was IAW Garmin GTX335 transponder TSO Installation manual # 190-01499-02 Dated: Dec, 2017 Rev10.
- -FAA approved AFMS 190-00734-15, Rev 3. Dated: Dec 21, 2017 included in aircraft POH.

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

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8 .	Description	of Work	Accomplish	ha

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

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02-01-2019

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Date

- Garmin 335 Pilot guide 190-01499-00, Rev. C. Dated Sept 2016 included in the aircraft.
- -Weight and balance and equipment list was updated. The owner was provided with the operating manual for the installed equipment.
- -Instructions for continued airworthiness: Other than for regularity periodic functional checks, maintenance of the GTX335 is "on condition" only. Periodic maintenance of the GTX335 is not required.
- -work was done IAW the STC Manuals as applicable and FAA AC43-13 1B/2B as applicable.

Installed Bendix/King KY196 Com. The KY196 was mounted in the center radio stack. The KY196 is manufactured under TSO C36e, C40c, C37d, C37d, and C34e. The KY196 was installed IAW the Bendix/King Installation manual #006-00169-0003 Rev.3. Dated: Sept 1983.

- -Instructions for continued airworthiness for the KY196 are unchanged from the airframe manufactures inspection program for panel mounted avionics equipment. The KY196 does not require any regular or scheduled maintenance.
- -Flight manual supplement was included in the aircraft POH, and the aircraft weight and balance was updated and included in the aircraft permanent records.

The above equipment complies with the static loading of 43.13-2b, Chapter 1, Paragraph 2, section d. An electrical load analysis was performed and loading meets the requirements on AC43-13-1b chapter 2, paragraph 27, section

d. Magnetic direction indicators were checked and compensated IAW AC43.13-1b chapter 2, paragraph 23, section f. fabrication of brackets of attachment complies with AC43.13-1b chapter 2, paragraph 25 and 26. Section a. Materials and practices comply with AC43.13-1b chapter 1, paragraph 4 through 12. A new weight and balance

was computed, and entered in the aircraft records.

	 		END	
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Additional Sheets Are Attached

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US Department
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Federal Aviation
Administration

MAJOR REPAIR AND ALTERATION

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

US Departme of Transportal Federal Aviat Administration	ion ion	(Airfrai	me, P	owerplant, P	rop	elle	r, or Appl	iance)				
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2. Owner	Guy F Giv	Cinali						City Valpar				State IN
							-	Zip 46385			Cou	ntry USA
						3. Fo	or FAA Use	Only				
airworthiness described airc	ified herein cor requirements a raft, subject to ized in FAR 43.7	ind is approv conformity i	ed for th	ne above								
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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.)

N2288Z

08/27/2018

Nationality and Registration Mark

Date

General:

All work performed conforms to the parameters set forth in the FAR's and the recommendations and guidelines set forth in AC43.13-1B and AC43.13-2B.

FAA Advisory Circular 43.13-1B, Chapter 3, Fiberglass and Plastic.

FAA Advisory Circular 43.13-1B, Chapter 8, Aircraft Hardware, Control Cables, and Turnbuckles.

FAA Advisory Circular 43.13-1B, Chapter 10, Weight and Balance.

FAA Advisory Circular 43.13-1B, Chapter 1, Para. 100-114, Structural Data

FAA Advisory Circular 43.13-1B, Chapter 2, Para. 200-210, Radio Installations.

Installed the following:

A New Instrument Panel fabricated using 2024 T3. 0.080 Aluminum following the current layout of the Piper PA28 model. No Aircraft structural modifications were required to incorporate the new panel. Panel modification is being accomplished in conjunction with 337 dated 08-27-2018 for the installation of Garmin G5 under STC SA01818WI. The New Instrument Panel will be fastened to the existing panel's frame using nut pates, and structural screws.

Performed Maintenance Operation Check (MOC).

Performed Flight Test.

Updated Aircraft Weight and Balance.

Notes:

Logbook entries made per FAR requirements.

Instructions for Continued Airworthiness, New Instrument panel.

1. Introduction

As described above, this aircraft has been modified with a New Instrument Panel.

Purpose:

This document identifies the Instructions for Continued Airworthiness for the modification of the above aircraft by installation of a New Instrument Panel.

Apolicability:

X Additional Sheets Are Attached

FAA Form 337 (10-06)

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

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N2288Z

08/27/2018

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Date

Applies to the aircraft by installation of a New Instrument Panel.

Definitions & Abbreviations:

None, N/A.

Precautions.

None, N/A.

Units of Measurements:

None, N/A.

Referenced Publications:

Piper Aircraft Maintenance Manual for the PA28 series aircraft.

Distribution:

This document should be a permanent aircraft record.

2. Description of the Alteration:

Installation of a New Instrument Panel. This panel is identical in design to the current Piper PA28 model aircraft and no special continued airworthiness requirements are required.

3. Control, Operation Information:

N/A.

4. Servicing Information:

N/A.

5. Maintenance Instructions:

Maintenance of the New Instrument panel, reference the Piper PA28 Maintenance manuals.

6. Troubleshooting:

N/A.

7 Removal and replacement Information:

For removal and installation of the New Instrument panel, reference the Piper PA28 Maintenance manuals.

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X Additional Sheets Are Attached

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8. Description of Work Accomplished (If more space is required, attach additional sheets. Identify with aircraft re	ationality and registration mark and	d date work completed.)
	N2288Z	08/27/2018
	Nationality and Registration Mar	k Date
8. Diagrams: N/A.		
9. Special Inspection Requirements: N/A.		
10. Application of protective Treatments: N/A.		
11. Data: relative to Structural Fasteners: N/A.		
12. Special Tools: N/A.		
13. This section is for the Commuter Category Aircraft Only: N/A.		
14. Overhaul Period: No additional overhaul time limitations.		
15. Airworthiness Limitation Section: N/A.		
16. Revision: To revise this ICA, a letter must be submitted to the local FSI ICA. The FAA inspector accepts the change by signing Block "The attached revised/new Instructions for Continued Airworth component major alteration have been accepted by the FAA, Airworthiness (date)."	3 and including the following the following the state	g statement: e above aircraft or
**********************************Nothing Follows	~ ************************************	****

FAA Form 337 (10-06)

Additional Sheets Are Attached

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US Department
of Transportation
Federal Aviation
Administration

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

Form Approved OMB No. 2120-0020 2/28/2011	Electronic Tracking Number
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•••••		Nationalit	Nationality and Registration Mark United States / N2288Z						Serial No. 28-2196			<u></u>		
1. A	ircraft	Make							Model			1	Series	
		Piper					PA28-180						PA28	
Name (As shown on registration certificate)									Address (As					· · · · · · · · · · · · · · · · ·
2. O	wner	Moore	Francis 1	Γ.		i			Address 2250 City Ormo			re Biva	Apt. 203	State Fla
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	4. Ty	pe					5. t	Jnit Identifi	ation					
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вү		A Flt. Stand spector	ards	Manufacture	er		Ma	aintenance (rganization		Persons Approved by Canadian Department of Transport			an
יט	FA	A Designee		Repair Stati	on	х	Inspection Authorization			Other (Specify)				
Certificate or Signature/Date of Authori: Designation No. A&P 2703524IA							ed I	ndividual					12/29/2	010

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

Description of Work Accomplished (If more space is required, attach additional sheets. Identify with air	rcraft nationality and registration mark and date	work completed.)
	United States / N2288Z	12/29/2010
	Nationality and Registration Mark	Date
Installed Rosen Sunvisors in accordance with Rosen S	unvisor Systems, LLC STC# SA00072	SE.
Installed using manufacturer supplied instructions and	hardware.	
4- A10K80 Rivnuts 4- MS24693-C276B screws.		
Installed on pilot and copilot sides, on the upper outboap paperwork and installation instructions. Drilled holes ar	•	-
Reinstalled forward section of headliner and interior trir	m.	
Attached supplied sunvisors.	· · · · · ·	
Performed operational check of sunvisor universal mou	unting brackets through the full range of	of motion. Operational
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☐ Additio	onal Sheets Are Attached	

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

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		Make	iper	, oddrai / Wation / Tex	. 1000			Model	PA-28-180	· · · · · · · · · · · · · · · · · · ·					
1. Ain	craft	Serial No.	8-219	6				Nationality	y and Registra	tion M	ark				
				n registration certifica	te)		Address (As shown on registration certificate)								
2. Ow	ner			K Foster	·				PO Box 34 Deleon Sp	3	•				
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						1 Uni	t Identification		Lindo Suran .			5. Type			
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Date	Septemb	er 10, 2002				Sigr	ature of Authori	zed Individ	lual //	درو	//				
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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.)
REMOVED: Turn Coodinator, Directional gyro.
INSTALLED: S-Tec System 30 Autopilot (consisting of Turn Coodinator / Roll Computer, Pitch Computer, Roll Servo, Pitch Servo, Altitude Transducer, & wiring harness) per STC SA09254AC-D, using procedures described in;
S-Tec Installation Bulletin ST-811 AC 43.13-1B, Chapter 11, Section's 4, 5, 6, 7, 8, 9, 10, 11, 12, 16 AC 43.13-2A, Chapter 2
Satisfactory ground checks were conducted.
Installation is in compliance with FAR 23.1301, 23.1309 and 23.1431.
Electrical load is within manufacturers specifications.
Instructions for Continued Airworthiness for the S-Tec autopilot are attached to this form.
Weight & Balance and Equipment List updated.
S-Tec system 30 Autopilot Flight Manual Supplement, p/n 891451, dated 07-07-1997, installed in Airplane Flight Manual.
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Additional Sheets Are Attached



INSTRUCTIONS FOR CONTINUED AIRWORTHINESS

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

1. Introduction

This modification was performed on Piper models PA-28-140, PA-28-150, PA-28-160, PA-28-180, and PA-28-235. The following information, in conjunction with the STC Installation Bulletin (S-TEC P/N) 811, Master Drawing List 921011, dated 11-19-01 and AFM Supplement(s) 891448, 891449, 891450, 891451, 891452, and 891453, dated 7-07-97 provide adequate guidance to determine that these systems are airworthy.

2. Description

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

Roll servo

Pitch servo

Trim servo (elevator)

Yaw servo

Panel or remotely mounted pitch/roll/yaw computers

Panel mounted controllers, indicators, switches, and breakers

Barometric pressure transducer/static source

Flap motion sensor

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

Servo installations utilize aluminum bracketry to secure the servos to the airframe. Attachment to the aircraft primary flight controls and trim systems is accomplished through cable, push-rod, and/or chain assemblies. Installation data for all components listed in the STC are included in the Installation Bulletin 811. Approved interconnections to navigation systems and heading systems are detailed in the Bulletin as well.

3. Controls, Operation Information

Operation of the autopilot and other systems is described in the FAA Approved Flight Manual Supplement(s) (S-TEC P/N) 891448, 891449, 891450, 891451, 891452, and 891453, dated 7-07-97. Specialized controls, annunciation, operation and interpretation are covered in this required document and in S-TEC Pilot's Operating Handbooks that supplement the approved AFMS.

4. Servicing Information

All servicing of items included in this STC must be accomplished by approved S-TEC dealers using S-TEC Dealer Maintenance Manuals and S-TEC Test Equipment. Locations and access to the components installed under this STC are described and depicted in the installation drawings and Installation Manual. Removal and replacement of components should be determined by functional checks indicated in the AFM Supplement and the Ground Checks and Flight Adjustment section of the Installation Bulletin for Model ST-711.



INSTRUCTIONS FOR CONTINUED AIRWORTHINESS

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

5. Maintenance Instructions

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

- 1. Perform functional checks indicated in the AFM Supplement and the Ground Checks and Flight Adjustment section of the Installation Bulletin for Model ST-711.
- 2. Component installations should be checked against Installation Bulletin for Model ST-711 to confirm integrity and condition.
- 3. In servo installations utilizing bridle cables, tension should be verified against values indicated on the Roll/Pitch/Trim/Yaw Servo Installation drawing(s) (found in the Bulletin Master Drawing List) 921011, dated 11-19-01. Check for frayed or misaligned bridle cables and excess wear or looseness of any associated idler pulleys.
- 4. Servo installations utilizing push-rod or chain actuation should be inspected for condition.

6. Trouble Shooting Information

Trouble-shooting this equipment should only be accomplished by authorized S-TEC Dealers with required test equipment and service data. System function should be determined through functional checks indicated in the AFM Supplement(s) 891448, 891449, 891450, 891451, 891452, and 891453, dated 7-07-97 and the Ground Checks and Flight Adjustment section of the Installation Bulletin for Model ST-711.

7. Removal and Replacement Information

All components can be removed with common tools and practices. Installation of components required for this alteration must be in accordance with the approved data contained in the Installation Bulletin for Model ST-711.

8. Diagrams

See Installation Bulletin for Model ST-711.

9. Special Inspection

N/A

10. Application of Protective Treatments

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

11. Structural Fasteners

See parts list in the Installation Bulletin for Model ST-711 for TSO, PMA, and standard hardware information.

12. Special Tools

N/A

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

Electrical loads are described in the Component Weights and Current Drain section of the Installation Bulletin for Model ST-711.

Part No. 8163, Rev. 1



INSTRUCTIONS FOR CONTINUED AIRWORTHINESS

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

14. Overhaul Time Limitations

N/A

15. Airworthiness Limitations

None.

16. Revisions

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

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United States Of America

Department of Transportation - Federal Abiation Administration

Supplemental Type Certificate

Number SA09254AC-D

I his Certificate issued to

S-TEC Corporation
One S-TEC Way

Mineral Wells Municipal Airport Mineral Wells, TX 76067-9236

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

Original Product Type Certificate Number:

2A13

Make:

Piper

Model:

PA-28-140, PA-28-150, PA-28-160, PA-28-180, and

PA-28-235

Description of Type Design Change:

Installation of S-TEC System 20/30 Single and Two Axis Automatic Flight Guidance Systems, Model ST-711-20/30, according to Bulletin No. 811, dated 7-01-97 and Master Drawing List No. 921011, dated 7-01-97 or later FAA Approved revisions of the above data (14 Volt System).

Limitations and Conditions :

- Only eligible on Model PA-28-235, S/N 28-10001 Through S/N 28-11378 and S/N 28-7110001 Through S/N 28-7210023.
- 2. Also eligible on Model PA-28-235, S/N 28-10001 Through S/N 28-11378 and S/N 28-7110001 Through S/N 28-7210023 When Modified Per STC SA2143WE (Robertson STOL).

(See Continuation Sheet, Page 2, a part of this STC.)

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

Date of application: 7-02-97

Date reissued:

Winis

Date of issuance:

7-07-97

Date amended:

By direction of the Administrator

(Signature)

William J. Thomas
DAS Staff Coordinator, DAS 5 SW

(Title)



Bepartment of Transportation - Federal Abiation Administration

Supplemental Type Certificate

(Continuation Sheet) Number SA09254AC-D

Limitations and Conditions (con't.)

- 3. FAA/DAS Approved Pilot's Operating Handbook and/or Airplane Flight Manual Supplement, P/N 891448, dated 7-07-97 is required for Piper Models PA-28-140, PA-28-150, PA-28-160; and PA-28-180, S/N 28-1 Through S/N 28-7205318; and PA-28-235, S/N 28-10001 Through S/N 28-11378 and S/N 28-7110001 Through S/N 28-7210023 for S-TEC System 20 or later FAA Approved revisions of the above supplement.
- 4. FAA/DAS Approved Pilot's Operating Handbook and/or Airplane Flight Manual Supplement, P/N 891449, dated 7-07-97 is required for Piper Model PA-28-180, S/N 28-7305001 And Up for S-TEC System 20 or later FAA Approved revisions of the above supplement.
- FAA/DAS Approved Pilot's Operating Handbook and/or Airplane Flight Manual Supplement, P/N 891450, dated 7-07-97 is required for Piper Model PA-28-235, S/N 28-10001 Through S/N 28-11378 and S/N 28-7110001 Through S/N 28-7210023 When Modified Per STC SA2143WE (Robertson STOL) for S-TEC System 20 or later FAA Approved revisions of the above supplement.
- 6. FAA/DAS Approved Pilot's Operating Handbook and/or Airplane Flight Manual Supplement, P/N. 891451, dated 7-07-97 is required for Piper Models PA-28-140, PA-28-150, PA-28-160; and PA-28-180, S/N 28-1 Through S/N 28-7205318; and PA-28-235, S/N 28-10001 Through S/N 28-11378 and S/N 28-7110001 Through S/N 28-7210023 for S-TEC System 30 or later FAA Approved revisions of the above supplement.
- 7. FAA/DAS Approved Pilot's Operating Handbook and/or Airplane Flight Manual Supplement, P/N 891452, dated 7-07-97 is required for Piper Model PA-28-180, S/N 28-7305001 And Up for S-TEC System 30 or later FAA Approved revisions of the above supplement.
- 8. FAA/DAS Approved Pilot's Operating Handbook and/or Airplane Flight Manual Supplement, P/N 891453, dated 7-07-97 is required for Piper Model PA-28-235, S/N 28-10001 Through S/N 28-11378 and S/N 28-7110001 Through S/N 28-7210023 When Modified Per STC SA2143WE (Robertson STOL) for S-TEC System 30 or later FAA Approved revisions of the above supplement.
- 9. Compatibility of this modification with other previously approved modifications must be determined by the installer.

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
So-FSDO-15

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

fo	for each such violation (Section 901 Federal Aviation Act of 1958).													
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1. А	ircraft		Serial No.	28	3-2196				Nationality and Registration Mark N2288Z					
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Weight and balance or operating limitation changes shall be entered in the appropriate aircraft record. An alteration must be compatible with all previous alterations to assure continued conformity with the applicable airworthiness requirements.

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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
SO-FSDO-15

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

for	for each such violation (Section 901 Federal Aviation Act of 1958).												
		Make PIPER		,·	Model PA28-180								
1. Air	craft	Serial No.	8-2196			1	ationality and Registration Mark N2288Z						
	··/	Name (As shown	on registration cer	tificate)			(As shown on regis	tration c	ertificate)				
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Weight and balance or operating limitation changes shall be entered in the appropriate aircraft record. An alteration must be compatible with all previous alterations to assure continued conformity with the applicable airworthiness requirements.

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

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US Department of Transportation Federal Aviation Administration

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

Form Approved OMB No. 2120-0020

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SO-FSD0-15

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	Make PIPER					Model	PA28-180						
1. Aircraft	Serial No.		Nationality and Registration Mark										
		28-2196					N2288Z						
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2. Owner							PO BOX 343						
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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.)

A. The following components were installed:

Precise Flight Standby Vaccum System, Model SVS III, P/N 4051 IAW Engine STC LYCOMING SE1779 NM and STC SA2167NM

- B. The unit was installed in the engine compartment (fire wall) according to instructions in the PRECISE FLIGHT INSTALLATION MANUAL STANDBY VACCUM SYSTEM MODEL SVSIII, P/N 50050 dated 08/26/96 and guidance in FAA Advisory Circulars 43.13-1A, chapter 11, and 43.13-2A, chapter 1&2.
- C. Complete ground and flight operational tests were performed according to the PRECISE FLIGHT STANDBY VACCUM SYSTEM MODEL SVS III INSTALLATION MANUAL P/N50050 dated 8/26/96. The equipment performed satisfactorily and did not adversely affect existing components or systems in the aircraft, as required by FAR 23.1431. The operating placard was filled out and placed on the aircraft instrument panel next to the control cable.
- D. The aircraft equipment list was revised to reflect these changes weight and balance data was revised and placed in the aircraft records. APrecise Flight Inc. Standby Vaccum System Aircraft Flight Manual Supplement dated 1/3/92 was placed in the aircraft.

-----END-----END-----

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
So -FSD0-15

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

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1. Aircraft	Make PIPER				Model PA28-180					
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Weight and balance or operating limitation changes shall be entered in the appropriate aircraft record. An alteration must be compatible with all previous alterations to assure continued conformity with the applicable airworthiness requirements.

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

US Department of Transportation

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
SO-FSD0-15

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for e	ach sucl	h violation (Se	ction	n 901 Federal Avia	tion A	ct of 1	958).							
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		Name (As shown on registration certificate)						Address	(As shown on regi	stration co	ertificate)			
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								1 32130						
3. For FAA Use Only														
The alteration fdentified herein complies with the applicable airworthiness requirements and is approved only for the above described aircraft subject to conformity inspection by a person authorized in FAR 43.7. SO-FSDO-15 PRINCIPAL AIRWORTHINESS INSPECTOR 3/25/49										•				
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ha	ave been	n made in acco	rdan	r alteration made to ace with the requir correct to the best	ement	sof∧Pa	art 43 of the U.S	n 4 above 6. Federal	and described on t Aviation Regulation	ne reverse ons and th	or attachmer at the inform	nts hereto nation		
Date					/	Sig	nature of Autho	rized Ind	ivid ual					
3-25-99							Dend							
					7. A	pprova	l 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														
вү 📙	FAA Inspe	Flt. Standards ector		Manufacturer	Х	Insp	ection Authoriza	tion	Other (Specify)					
		Designee		Repair Station		Pers Cana	on Approved by ada Airworthines	Transpor ss Group	t					
	• •	or Rejection	}	Certificate or Designation No.		Sign	ature of Autho	rized Indi	vidual					
3-25-89 505601766IA telebook						50	Clean							

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.)
	Removed existing mixture control cable. Enlarged instrument panel control
	Cable hole to 3/4". Replaced mixture control cable with Alcor VCW-2 P/N
	93882 Vernier mixture control cable IAW Alcor Installation instruction sheet 59108AW Rev. M 12/06/96. Cable installed has red knob & spiked
ĺ	contour to identify as mixture. Conection of cable to carburetor made by
, ,	using existing hardware. No change in weight and balance. FAA /PMA Aprove 0 0
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	□ Additional Sheets Are Attached



Federal Aviation Administration

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

Form Approved OMB No. 2120-0020

For FAA Use Only
Stice Identification
ASO-FSDO-15

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

for each si	uch violation (Section	on 901 Federal Aviation	Act of 1958).			om pond	,	υσα φ1,000		
4 4: 4	Make	PIPER		Model		,PA28,-	180			
1. Aircraft	Serial No.			Nationality and Registration Mark N2288Z						
2. Owner	EOSTE	n on registration certific R, WILLIAM K.	•	Address (As shown on registration certificate) P.O.BOX 343 DE LEON, FLORIDA 32130-0343						
			3. For FAA Use O	nly						
·	্ ু ১১১৯ সে	· Taga requirements a		applicable ain above describ n authorized in	ped aircraft in FAR 43.7	·_ / /	11	in state Herself		
		late .	4. Unit Identificati	on 🍎 - "			5. Type	4		
Unit	M	lake	Model		Serial No			Alteration		
AIRFRAME ,		(As d	escribed in Item 1 abov	(e) ii		e jeti	31. - 40 mg - 4 - 40 mg - 1	. X		
POWERPLANT										
PROPELLER										
APPLIANCE	Type Manufacturer									
A	Managara Addis		6. Conformity Stater							
	Name and Address		B. Kind of Agency			C. Certif	ficate No.			
F	QUEST AVIONIC P.O. BOX 77002 DCALA, FL 3447	8	Foreign Certific	Ochtmeated Hepair Station			QVNR604L			
furnishe	en made in accorda	or alteration made to the ance with the requirement a correct to the best of n	nts of Part 43 of the U.S ny knowledge.	S. Federal A	viation Regulatio	ne reverse ons and th	or attachmer at the inform	nts hereto ation		
Date (n. 19.19	199	Signature of Author	Signature of Authorized Individual						
/			Approval for Return To			\geq				
Pursuant to	the authority give	en persons specified be viation Administration a	low, the unit identified nd is APPROVE	in item 4 v	was inspected in JECTED	the man	ner prescribe	d by the		
	A FIt. Standards pector			ition	Other (Specify)					
FA	A Designee X	Repair Station	Person Approved by Canada Airworthines	Transport s Group						
ate of Appro	yal or Rejection	Certificate or Designation No. QVNR604L	Signature of Autho	ized Individ	tual	=				

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.

SACRET MILA

8. Description of Work Accomplished

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

SUPPLEMENTAL FORM 337 FOR GPS IFR ENROUTE, TERMINAL, AND NON-PRECISION APPROACH APPROVAL. SUPPLEMENT TO EXISTING FORM 337 DATED SEPTEMBER 9,1998.

INSTALLED SYSTEMS:

- 1 EA. II MORROW 2001GPS SYSTEM WITH 360 MAP MOVING MAP SYSTEM.
- 1 EA. MID-CONT. MD40-65L CDI/ANNUNCIATOR.
- 1 EA. TCI IA-RS232C-S SERIALIZER.

INSTALLATION COMPLIES WITH FAR 23.1301 AND 23.1431.
THE II MORROW 2001GPS APPORVED FOR VER AND IFR ENROUTE, TERMINAL, AND NON-PRECISION APPROACH NAVIGATION AND WAS INSTALLED AND TESTED IN ACCORDANCE WITH AC20-138, PARAGRAPH 8.C. (2)

FAA APPROVED FLIGHT MANUAL SUPPLEMENT (FMS) INSTAULED IN AIRCRAFT'S APPROVED FLIGHT MANUAL (AFM).

AIRCRAFT PLACARDED " GPS APPROVED FOR VFR AND IFR ENROUTE, TERMINAL, AND NON-PRECISION APPROACHES". ---- END -----



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 \$50-15

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

		•											
-1 A:	ircraft	Make PIP	ER					Model I	PA28-180				
I. A	ircrait	Serial No.	28	3-2196		-		Nationality and Registration Mark N2288Z					
		Name (As shown on registration certificate)					Address (As shown on registration certificate)						
2. 0	wner			K FOSTER		PO BOX 343 DeLeon SPRINGS, I							
		·				3. F	or FAA Use O	nly					
		<u> </u>				4. l	Jnit Identificati	on			5. Type	,	
	Unit		Ма	ıke			Model		Serial No		Repair	Alteration	
AIRFRAME(As des					As des	cribed	d in Item 1 abov	(e)	······································			xx	
POWI	ERPLANT												
PROF	PELLER												
APPL	IANCE	Type Manufacture	r .										
						6. Co	nformity Stater	nent					
A. A	gency's N	ame and Addre	ess_			В.	Kind of Agency	·		C. Certi	ficate No.		
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	2 Ji	b Drive				-	Foreign Certific		inic	 7 2 D E (1560176	6 7 7	
	Sout	h Daytor	na,	Fl. 32119	9	Certificated Repair Station Manufacturer			A&P505601766IA				
	nave beer	i made in acco	ordar	r alteration made to nce with the requir correct to the best	ements	of Pa	identified in iter	n 4 above a S. Federal	and described on the Aviation Regulation	he reverse ons and th	or attachme at the inform	nts hereto nation	
Date	_					Sig	pature of Autho	rized Indi	vidual				
	11/0	9/98					rah 15	Lee.	-04/			:	
					7. Ap	prova	al for Return To	Service					
Pui Adi	rsuant to ministrato	the authority or of the Federa	giver I Av	n persons specifie lation Administrati	d belo	w, the	unit identified	l in item ₄	was inspected in EJECTED	the man	ner prescrib	ed by the	
BY		Fit. Standards ector		Manufacturer	Х	Insp	ection Authoriza	ition	Other (Specify)				
	<u> </u>	Designee	_	Repair Station		Cana	on Approved by ada Airworthine	s Group					
Date	of Approva 11/0	al or Rejection 9/98		Certificate or Designation No.		Sign	ature of Autho						
	-		Α¢	P505601766	TA		talub	<u>5</u> _	Deco#				

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.	B. Description of Work Accomplish (If more space is required, attack	ed addition	nal sheets.	Identify with aircraft n	ationality and registra	tion mark and date w	ork completed.)
	Installed BA-104, Brackett Aircraft	Co.	, Inc	STC-SA693CE	air filter Instruction	assembly as sheet part	per No.
	BA-104-03 Dated R	.ev. (END			
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U.S. Department of Transportation Federal Aviation Administration

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

Form Approved OMB No. 2120-0020

For FAA Use Only

Office Identification ASO-FSDO-15

INSTRUCTIONS: Print or type all entries. See FAR 43.9 FAR 43.4 ppendix B. and AC 43.9-1 (or subseque

a fo	nd disposit or each suc	ton of this form. The violation (Section	his report is required ion 901 Federal Avia	d by la	w (49	U.S.C. 1421\ Fa	ilure to re	eport can result in a	civil pena	ity not to exc	eed \$1,000
1. /	Aircraft		PIPER				Model	PA 28-	, -	٠ 4	,
		Serial No.	28-2196				<u></u>	lity and Registratio		N2288	3Z :
2. (Owner	Name (As show	in on registration ce	rtificat	·		DI	(As shown on reg .O. BOX 34 E LEON, FL		32130-	-0343
-			···			For FAA Use Or		· · · · · · · · · · · · · · · · · · ·	· · · · · · · · · · · · · · · · · · ·		
	-		requirements an	d is app	roved	nplies with applicationly for the above on by a person autho	described a	lrer:!!	a n a a	<u>,</u>	
			SED 13	Si	onatur	Unit Identification		A5U-F	2DO-1	1	
	Unit	٠ ٨	/lake		<u> </u>	Model	<u> </u>	Serial No	· · · · · · · · · · · · · · · · · · ·	5. Type Repair	Alteration
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PRO	PELLER										
APPI	IANCE	Type Manufacturer	_							7	
^ ^	gonovio Nic	ame and Address				nformity Statem	ent				
					B.	Kind of Agency U.S. Certificated	N		C. Certif	ficate No.	
	P.O. E	AVIONICS 30X 770028 , FL 344	8			Foreign Certificated Certificated Rep	ted Mecha	anic		QVNR6	04L .
D.			or alteration made to ance with the require d correct to the best				4 above . Federal	and described on the Aviation Regulation	ne reverse	or attachmer at the inform	nts hereto ation
Date	10111101100	I O O	d correct to the best	or my	KNOW	nature of Autho					
	4	est. 9.	1998	-age		/ feel					
		/				al for Return To					·
Pu Ad			en persons specified viation Administration	d belov on and	w, the	unit identified APPROVED	in item 4	4 was inspected in EJECTED	the man	ner prescribe	ed by the
3Y	FAA I Inspe	FIt. Standards ector	Manufacturer		Insp	ection Authoriza	ion	Other (Specify)			
Date		Designee	Repair Station		Cana	on Approved by ada Airworthines	s Group				
Jaie	9/23	198	Certificate or Designation No.	04L	Sign	ature of Author	ized Indix	/Idual			
AA	Form 337 (1	12-881	-l	·	<u></u>	171			_/	-	,

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

- 1 EA. II MORROW 2001GPS SYSTEM WITH 360MAP MOVING MAP SYSTEM.
- 1 EA. MID-CONT. MD40-65L CDI.
- 1 EA. TCI IA-RS232C-S SERIALIZER.

SYSTEMS INSTALLED IN ACCORDANCE WITH AC43.13-1A, CHAPTER 5, sec.1, CHAPTER 11, sec. 2,3,4,5,&7, AC43.13-2A, CHAPTERS 2&3, AND AC20-138, app. 1, para.1.

INSTALLATION WAS MADE IN REFERENCE WITH MANUFACTURER'S INSTALLATION MANUALS, p/n560-0161-00, 560-0124-01, rev B, IA-RS232C-S, AND DIAGRAM 2010056-65.

SYSTEM INSTALLED SIMILAR TO PREVIOUSLY APPROVED SUPPLEMENTAL TYPE CERTIFICATE (STC) NUMBER SA00328SE, dated 5/14/96.

RECEIVER MOUNTED IN CENTER RADIO PANEL AT STATION 62.0 AS PER PARAGRAPH 23 OF AC43.13-2A. ANTENNA MOUNTED ON TOP AT STATION 104.0 AS PER PARAGRAPH 38 OF AC43.13-2A. CDI AND 360MAP MOUNTED IN PANEL AT STATION 62.0 AS PER PARAGRAPH 23 OF AC43.13-2A. SERIALIZER MOUNTED FORWARD OF COPILOT'S PANEL ATS STATION 52.0 AS PER PARAGRAPH 25 OF AC43.13-2A.

INSTALLATION COMPLIES WITH FAR 23.1301 AND 23.1431.

EQUIPMENT LIST AND WEIGHT AND BALANCE DATA WERE REVISED TO REFLECT THESE CHANGES.

THE II MORROW 2001GPS APPROVED FOR VFR USE ONLY.

US Department of Transportation Federal Aviation Administration	(Airframe, P		ND ALTERATION TO PERSON NEEDS IN 1985			Office Iden	2120-0020 or FAA Use C	Only
and dispositi	DNS: Print or type all entrie on of this form. This report o violation (Section 901 Fe	is required by law deral Aviation Ac	r (49 U.S.C. 1421). Fa t of⊲1958):	ilure to report c	r subsequer an result in	a civil penal	hereof) for in ity not to exc	istructions eed \$1,000
1. Aircraft	Make PIPER Serial No.	W. JUA AK	i s eis va te:	Model PA-28- Nationality and	180	V V LLCIE N M (N		
	28-2196		-	N2288Z				
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	6 역상 :	- 1 + 15 € 15 € E	3. For FAA Use Or	ily	ing the state of			
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Unit	Programa Make 5	61 1.25	Model	rie fri	Serial N	o.	5. Type	Alteration
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A. Agency's Na	me and Address	***********	B. Kind of Agency		- 100021	C. Certit	icate No.	er con ja
FLIGH 351 8 ST PE	T CONTROL SER TH AVE SE HANG TERSBURG, FL	VICES ERR 3 33701	Foreign Certificated Foreign Certificated Rep Manufacturer	ated Mechanic		o	FHR414	
11040 05011	at the repair and/or alterati made in accordance with herein is true and correct	the requirements	or Part 43 of the U.S	n 4 above and de S. Federal Aviati	escribed on ion Regulati	the reverse ions and th	or attachmer at the inform	nts hereto lation
Date 06/30/	94		Signature of Autho	rized Individual	**	СНІВ	F INSP	ECTOR .
		7. Ap	proval for Return To	Service				
Pursuant to t Administrator	he authority given person of he Federal Aviation Ac	s specified below iministration and	v, the unit identified is SAPPROVE) I HEJEC	TED	•	ner prescribe	ed by the
FAA I	fit. Standards Manufactor	cturer	Inspection Authoriza	Oth	ner (Specify)	. · C		N
FAA	Designe : XX Repair S		Person Approved by Canada Airworthines	s Group	1			
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Ob /30 /		HR414L	7)~ 3	Touch		CHIE	F INSPI	SCTOR

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

The following installation conforms to acceptable methods using previously approved data supplied by the FAA and manufacturer's as described below, listed by item:

UNIT INSTALLED: TKM MX-11 COM UNIT

1. INSTALLATION
The unit was supplied with mounting tray and connector.
Installation was performed using approved materials and data
provided by manufacturer. Circuit breaker installed in space*
provided for avionics breakers, labeled RADIO, and tied into power
buss. Harness fabricated using approved material, and tied into
aircraft audio system as outlined in manufacturers installation
manual. Com unit installed in radio stack. Connection to com
antenna. Unit firmly bonded to airframe ground. All wires tied away
from controls. No other connections or interfacing attempted.

- 2. APPROVAL: Installation conforms with articles in AC 43.13 1A Chapter 15 sections 1,2,4,5,6. Chapter 5 section 1. Chapter 11 sections 2,3,4,5,7. Chapter 13 paragraphs 659 & 662. And AC 43.13 2A Chapter 1 paragraphs 4,5,6,9,10,11,12. Chapter 2 paragraphs 21,22,23,24,27. Additional approval data obtained from FAR PART 23. Additional data from previously approved data supplied by the manufacturer.
- 3. This system was ground and bench tested, and found not to be a source of objectionable electromagnetic interference, and is functioning properly and safely and operates in accordance with manufacturers specifications. This installation was inspected by this agency for safety of mounting and is approved for return to service.
- 4. Weight and balance has been recomputed and entered as a permanent record in the proper section of flight manual. Equipment list has been revised. A logbook entry has been made.

END

AND DESCRIPTION

A

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

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US Department		MAJOR REPA	AIR A	ND ALTERATI	ON		/		0-1
Address (As shown on registration certificate) Owner Comment Make Model Augustan Make 1. Alteratt Alterate Alterate Owner Comment Make Model Alterate	Uniy								
Administration	<u> </u>						ASC	-FSD0-1	
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					Model			 	
1. Aircraft					DA-	20-100			
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2. Owner	OWENS.	WITTITAM TO	. 23		PO	BOX RRSS			,
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PROPELLER					-	•			-
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ST PEI	'ERSBURG,	FL_33701		Certificated Rep	pair Station		OF	HR414L	
D. I certify th	at the repair and	d/or alteration made t	o the un	Manufacturer it(s) identified in iter	n 4 above	and described o	n the reverse	or attachmor	atc boroto
		dance with the required to the best			S. Federal	Aviation Regul	ations and th	at the inform	ation
Date				Signature of Author	zea lodi	vidual			
03/18/9	4			- Dan	To	Lune	CHTRE	THEORE	W O D
-		· · · · · · · · · · · · · · · · · · ·	7. App	proval for Return To	Service			_ INSER	TUK
Pursuant to t	he authority gi of the Federal	ven persons specifie Aviation Administrati	d below on and,	the unit identified is XIS APPROVED	in item 4	was inspected EJECTED	in the mani	ner prescribe	d by the

Inspection Authorization
Person Approved by Transport
Canada Airworthiness Group

Signature of Authorized Individual

03/18/94 FAA Form 337 (12-88)

Date of Approval or Rejection

FAA FIt. Standards Inspector

FAA Designee

Manufacturer

Repair Station -Certificate or Designation No.

OFHR414L

CHIEF INSPECTOR

Other (Specify)

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.)

EQUIPMENT REMOVAL:

The below-listed equipment was removed by this agency from this aircraft.

NARCO MARK 12 WITH POWER UNIT AND INDICATOR.

EXISTING TRANSPONDER MOVED TO CENTER STACK.

All work is in accordance with appropriate FAR's, manufacturers specifications and AC 43.13 1A chapter 15 sections 1,2,4,5 and 6. Additional approval data from AC 43.13 2A chapter 2.

A log entry, plus weight and balance revision have been made to reflect this change.

BEARBAIR

☐ Additional Sheets Are Attached

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

	. APPLICATION FOR AIRWO			BUDGET BUREAU NO. 04-R058.1							
TR	UCTIONS: Please print or type. Subn Jse attachments or extra sheets as necess	nit this form, original sary.	only, to an authori	zed Federal Aviation Agency Representa							
_	1. AIRCRAFT IDENTIFICATION NO.	2. AIRCRAFT MAKE		3. AIRCRAFT MODEL							
DESCRIPTION	N 2288Z	Piper		PA 28-180							
<u> </u>	4. AIRCRAFT SERIAL NUMBER	5. ENGINE MAKE		6. ENGINE MODEL							
ב צ	28-2196	Lycoming		0-360-A3A							
5	7. NUMBER OF ENGINES	8. PROPELLER MAKE		9. PROPELLER MODEL							
	_One	Sensenich		M76EMMS60							
	1. APPRICATION IS HEREBY MADE FOR:										
1 14	TO ORIGINAL ISSUANCE OF CERTIFICATE (AIRCRAFT X NEW USED IMPORT) (CAR 1)										
	8. AMENDMENT OF CURRENT CERTIFICATE (CAR 1.62)										
	C. MULTIPLE CERTIFICATE (REF. CAR 1 AND 8)										
	D. OTHER	The state of the s		(Specif							
	2. AIRWORTHINESS CLASSIFICATION (Check appro	opriate item(s))									
	It is requested that an Airworthiness C classification(s):	ertificate be issued to per	rmit operation of the	above described aircraft in the following							
	🖟 e i tra i degli problema e i si i i i i i i i i i i i i i i i i			그 하고 그 그리고 그 사람이 보냈다.							
	A. X STANDARD (NOPMAL, UTILITY, ACROBATIO	C, TRANSPORT CATEGORIES) (R	REF. 98820 FAR 21.	.183 (a)							
, . :	B. LIMITED (REF. CAR 9)										
	C. RESTRICTED (REF. CAR 8) (Check operatio										
	(1) AGRICULTURAL AND PEST CONTROL	L	(4) PATROLLING								
	(2) AERIAL ADVERTISING		(5) FOREST AND W	VILDLIFE CONSERVATION							
	(3) AERIAL SURVEYING		(6) WEATHER CON	TROL							
			(7) OTHER								
	D. EXPERIMENTAL (REF. CAR 1) (Check operation(s) to be conducted) (Specify)										
	(1) AMATEUR BUILT		(3) EXHIBITION								
	(2) EXPERIMENT (RESEARCH AND DEVELO	PMENT)	(4) RACING								
				APLIANCE WITH CAR							
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			VIATION AGENCY		
-	(Items 1 and 2 will be verifie	d and all other applicable	e items will be completed by	an authorized FAA rep	resentative.)
1. •	AIRCRAFT CERTIFICATION BASIS				
	The aircraft described in PART I of	on the reverse of this for	rm has been inspected and	found to conform to t	he following:
	A. X AIRCRAFT SPECIFICATION OR TYPE CE	OTTERCATE DATA SHEET NO	2A13	REVISION	NO 11
	B. AIRCRAFT LISTING, PAGE NO.(S)	KIINCAIE DAIA SHEEL NO.		REVISION	'`` <u> </u>
	C. A AIRWORTHINESS DIRECTIVE SUMMAR		1963 (YEAR) TH	ROUGH CARD NO.	65-3
	D. SUPPLEMENTAL TYPE CERTIFICATE NO	the contract of the contract o			
3 :	E. OTHER		a galagi		
* .			- (Specify)		
2.	AIRCRAFT AND ENGINE OPERATING RECORDS				The same of the
	A. X AIRCRAFT NEW-NO PREVIOUS OPE	RATION OR MAINTENANCE HIST	ORY		
	B. NA COMPLIANCE WITH APPLICABLE AIRW	ORTHINESS DIRECTIVES RECORD	ED		
	C. AIRCRAFT RECORDS INDICATE THE AIR		TOTAL OF	HOURS	
	D. X ENGINE RECORDS INDICATE THE FOL				
	SERIAL NO			TME SINCE OVERHAUL	
	SERIAL NO	TOTAL HOUR		IME SINCE OVERHAUL	
	SERIAL NO.	TOTAL HOUR		IME SINCE OVERHAUL	
	SERIAL NO.	TOTAL HOUR	`	IME SINCE OVERNAUL	
3.	AIRWORTHINESS DOCUMENTATION				
	A. CURRENT OPERATING RESTRICTIONS	ILLUTTATIONS) COPY ATTACHED			
	B. CURRENT OPERATING RESTRICTIONS				
	C. X CURRENT APPROVED AIRCRAFT FLIGH				
	D. X CURRENT WEIGHT AND BALANCE INF				
4	E. IX THIS INSPECTION HAS BEEN RECORD	the state of the s			
٠.	F. FAA FORM 337, MAJOR REPAIR AND	ALTERATION, (ATTACH WHEN R	EQUIRED)		
	G. FAA FORM 317, STATEMENT OF COM	SFORMITY, (ATTACH WHEN REQU	JIRED)		
	H. WEIGHT AND BALANCE BEPORT, (ATT	ACH WHEN REQUIRED)			
	I. DATA, DRAWINGS, PHOTOGRAPHS,	TC., (ATTACH WHEN REQUIRED)			
-	J. X AIRWORTHINESS CERTIFICATE, FAA FI	DRM 1362, ISSUED IN ACCORD	ANCE WITH DER PAR 21,18	33 (a)	
	K. PREVIOUS FAA FORM 1362, ISSUED	IN ACCORDANGE WITH CAR			
	BY				
	(Name of Issuin	n Patronantation)		(Designation Num	her)
_	FAA REPRESENTATIVE CERTIFICATION	g Representative)		(Dingibion 11bas	,
-					6-1:
2.1	I have inspected the aircraft descrits type certificate and that it is in	bed on the reverse and condition for safe oper	, on the basis of the application.	ation and the toregoi	rg, and it conforms to
	REGISTRATION INDICATED ON REVERSE IS PRO				
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6.	DESIGNEE'S SIGNATURE	The same of the same	DESIGNATION NO.		DATE
	Wayland R. Medlin				
			DMIR=6070		2-19-65
7.	FAA INSPECTOR'S SIGNATURE		FAA DISTRICT OFFICE NO. FA	A-SO	DATE
			FMI	00-43	트립B 2 0 1485
u	Villiam H. Tacfer			· · · · · · · · · · · · · · · · · · ·	1,54 D P1
8.	KEMARKS			· · · · · · · · · · · · · · · · · · ·	. IVI ACCEPTED
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United STATES OF AMERICA FEDERAL AVIATION AGENCY

ERTIFICATE OF AIRWORTHINESS

1. NATIONALITY AND REGISTRATION MARKS

2. AIRCRAFT AIRWORTHINESS CLASSIFICATION

H2288Z

Standard - Normal

- 3. This Certificate of Airworthiness is issued pursuant to the Federal Aviation Act of 1958. The aircraft identified hereon is considered airworthy when maintained and operated in accordance with the Civil Air Regulations and applicable aircraft Operation Limitations.
- 4. This Certificate will remain in effect as long as the aircraft is maintained in accordance with Part 43 of the Civil Air Regulations unless surrendered, suspended, revoked, or a termination date is otherwise established by the Administrator of the Federal Aviation.

5. DATE OF ISSUANCE

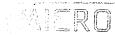
7. DESIGNATION HO.

Wayland R. Hedlin 2-19-65

DMTR-6070

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

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DEPA AT OF TRANSPORTATION
FEDERAL AVIATION ADMINISTRATION

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

MAJOR REPAIR AND ALTERATION

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

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

June 28, 1972

N 2288Z

Installed Remote Compass AN-5730-1, Model 350-319 as per manufacturer instructions. Indicator installed in existing panel hole. Transmitter and Inverter mounted on radio shelf aft of .. shear web. # 18 gauge wire used with 5 amp circut breaker switch. Log entry & weight & balance reflect these changes.

- END -

ADDITIONAL SHEETS ARE ATTACHED