(2)
US Department
of Transportation
<b>Federal Aviation</b>
Administration

## **MAJOR REPAIR AND ALTERATION**

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

of T	Transportati deral Aviat ministratio	ion I <b>on</b>	(Airfrar	ne, Powerp	olant, F	Prop	ell	ler,	or App	liance)					FOFFAA	Use Only	····
in	struction	TIONS: Print s and dispos tion. (49 U.S	ition of this	ll entries. Se form. This re (a))	e Title 1 eport is i	I4 CF requir	R §	§43 by I	.9, Part 4 law (49 U.	3 Append S.C. §447	dix B, a 701). I	and AC Failure t	43.9- to repo	1 (or so	ubsequer result in	nt revision a civil pen	thereof) for alty for each
Nationality and Registration Mark N5083W Make										2100	1000635						
1	Cessna							P210N				1		Series			
Name (As shown on registration certificate)  2. Owner Abacus Properties, Inc.							Address (As shown of Address PO Box 400				on reg	istration	certifica	ite)			
2. O	wner	Abacu	is Prope	erties, Inc			City Port Saint Joe						State	FL			
-							3. [	For	FAA Use	Zip Only	32457-	0400			intry USA		
									_								
	4. Ty	<del>i</del>					5. l	Uni	t Identific	ation							
F	Repair	Alteration	Uni	t Ma						Model					Seria	l No.	
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			POWERF	PLANT													
			PROPELI	LER													
			APPLIAN	Type CE Manufac	cturer		0-										
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Addre City	Jackso			State _T	N .	-		+-	oreign Cer					C. Cert	ificate No	D.	
Zip	38305		untry USA	Julie			$\dashv$	+	Certificated Certificated			nization			37	1617	0
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	ended rar 14 CFR I . B			Signature/Da				4		<u></u>	1	(	3/12	1202	21		
Pl	irsuant t	to the autho	ority given	persons spe	cified b	elow.			for Return			was ins	specte	ed in th	ne mann	er prescri	hed by the
Ac	immstra	tor of the Fed	derai Aviati	on Administrat	lion and	is T				Approv	ved	Re	jected	<del>!</del>			ocu by the
BY	1 1.	spector		Manufacture	)r 		Ma	laint	enance O	rganizatio	n ——		Depart	ment of	red by Car Fransport	riadian	
Oc. 1		AA Designee		Repair Statio		X			ction Auth	orization		Cuter					
	ficate or gnation I	No. 37161	70	Signature/Da	ite of Aut	thoriz R	ed I	indi	vidual			8/12	2/21	ø2			

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.

	N5083W	08/12/2021
	Nationality and Registration Mark	Date
Removed electric standby vacuum system previous Removed Mid-Continent Instruments and Avionics number T60769K. Rerouted instrument pneumatic lines Installed uAvionix AV-30C FAA STC SA00410BO installation Manual Document UAV-1003947-001 Resp. Aircraft weight and balance updated in aircraft PO	attitude gyro part numberes to bypass the remover in accordance with uAvidusion D.  H and maintenance reco	er 23-501-06-16 seria ed attitude gyro. onix AV-30-C
Additional Sheet		

US Department
of Transportation
Federal Aviation
Administration

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

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

of Transportat Federal Aviat Administration	tion	(Airfran	ne, P	owerplant, F	Prop	el	ller, or Appl	iance)						
instruction	ns and dispos tion. (49 U.S	ition of this .C. §46301	form. (a))	This report is	4 CF equir	R ed	§43.9, Part 43 by law (49 U.S	S.C. §44701)	3, and A . Failure	C 43.9 to rep	-1 (or su ort can r	bsequent revision thereof) for esult in a civil penalty for each		
Nationality and Registr N5083W				n Mark	Serial No. P210006				P21000	635				
1. Aircraft  Make  Cessna								Model P2	10N	•		Series		
	'		-	ration certificate	)						gistration	certificate)		
2. Owner	Abacus	Properties	s, Inc.					Address P.	ort Sain			State FL		
									2457-04	00	Cour	ntry <u>USA</u>		
3. For FAA Use Only														
4. Ty	уре					5.	Unit Identifica	itlon						
Repair	Alteration	Uni	t		Mal	ke		Model			Serial No.			
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		PROPELI	_ER	<b>T</b>						· .	<u>-</u>			
		APPLIAN	CE	Type Manufacturer								·		
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	Murray Gua	rd Drive	H60	TNI	_		Foreign Certificated Mechanic C. Certificate No.				ficate No.			
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have t	oeen made in	accordance	e with rrect to	the requirement the best of my	ts of F know	aı vle	rt 43 of the U.S dge.	5 above and Federal Avia	describ ation Re	ed on t	he revers	se or attachments hereto at the information		
Extended ra per 14 CFR App. B	-		Signa	ature/Date of Au	thoriz	ed	Individual				01	1.04.2021		
						_	oval for Return							
Pursuant Administra	to the authoritor of the Fed	ority given deral Aviati	perso on Adr	ns specified b ministration and	elow, is	tř		ed in item Approved		nspect Rejecte		e manner prescribed by the		
	AA Flt. Stand	ards	Man	ufacturer		N	Maintenance Or	ganization		Depar	tment of T	ed by Canadian ransport		
l I i	AA Designee		Repa	air Station	x	lr	nspection Author	orization	Othe	r (Spe	cify)			
Certificate or Designation	<sub>No.</sub> 3716170	)	Signa	ature/Date of Au	thoriz (	ed	Lindividual -	· ·· <del></del>			01.	04-2021		
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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.

	N5083W	01-04-2021
	Nationality and Registration Mark	Date
oved original equipment tail navigation light assembly. Installed Wheler ment wing tip navigation and strobe light system. Installed Wilco wing tal electircal power wires to the three light assemblies. Electrical load is cordance with the STC installation instructions and standard industry processing the standard industry process.	tip position/strobe light kit per FAA reduced from the original equipment	STC SA01827WI, Used

# U.S. Departmen

U.S. 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

For FAA Use Only

INSTRUCTION	IS: Print or type all entries   See Title CEP 843 0   Part 43 A	ppendix B, and AC 43.9-1 (or subsequent revision thereof) for
instructions and	d disposition of this form. This report is required by law (40	U.S.C. §44701). Failure to report can result in a civil penalty for
each such viola	ation (49 U.S.C. §46301(a)).	0.0.0. 344701). I alidie to report can result in a civil penalty for
	Nationality and Registration Mark	Serial No.
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		Nationali	ty and Reg	jistrat	ion Mark			Serial No	).				
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		Cessn	a		,		P210N					Gorios	
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2. Ow	ner		US LTD	-	odddin ooi anoddo,			Address		-		,	
								City		SAINT JOE		State FLORIDA	
								Zip	32457		ountry	UNITED STATES	
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Zip	22728	<u> </u>	Country	16	nited States	X	<u> </u>				_ 9MIR		
Z.ib	22120		_ country		illed States	L	Certificated N	faintenance O	rganizatio	on .			
D. I cer	tify tha	at the rep	air and/d	or alt	teration made to the unit(s	) id	entified in it	em 5 above	and de	escribed o	n the i	reverse or attachments	
nere infor	io nav matior	re been r n furnish:	nade in a ed hereir	acco n is ti	rdance with the requireme	ents t of	of Part 43 o	of the U.S. F Ide	ederal	Aviation F	Regula	ations and that the	
Extended r					ure/Date of Authorized Inc		-	<del></del>					
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the	e Admi	nistrator A Fit. Star	of the Fe	eder	al Aviation Administration	and	is 🗸 APP	ROVED		REJECT	ED	Appoved by Canadian	
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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 data work completed
	· · · · · · · · · · · · · · · · · · ·
N5083W  Nationality and Registration Mark	6/14/16 Date

Installed NavWorx P/N: 200-0011-02-09 S/N: 15520027, located under rear bench seat, interfaced with IFD540 and AXP340. Installed IAW STC# SA11172SC using AML and NavWorx install manual. Completed configuration and checkout, satisfactory. Updated Weight and Balance, equipment list, wiring diagrams, performed electrical load analysis, satisfactory, all with Aircraft Records.

#### **Instructions for Continued Airworthiness**

- 1. Introduction: This document is designed for use by the installing agency of the NavWorx ADS600-B Universal Access Transceiver (UAT) as Instructions for Continued Airworthiness in response to 14 CFR Part 23.1529, and Part 23 Appendix G. The ICA includes information required by the operator to adequately maintain the NavWorx ADS600-B UAT installed under Approved Model List (AML) STC SA11172SC.
- 2. Description: The remote mounted ADS600-B 978MHz UAT Data Link provides the ADS-B OUT and IN functionality for system installation configuration. The UAT automatically transmits its GNSS GPS position and other information once a second in the form of an ADS-B message. This is referred to as ADS-B OUT. The UAT also receives TIS-B, ADS-R and FIS-B messages from the ADS-B ground stations and ADS-B messages from other UAT equipped craft. This is referred to as ADS-B IN. ADS-B, ADS-R and TIS-B messages are generally referred to as traffic messages. FIS-B messages are referred to as weather messages. These traffic and weather messages are forwarded by the UAT to Cockpit Display of Traffic Information (CDTI) or Multifunction Display (MFD) devices.
- 3. Control, operation information: The ADS600-B UAT does not have a direct pilot interface. If the ADS600-B is interfaced to optional external controllers or display devices, consult the appropriate controller or display User's Guide for system operation.
- **4. Servicing information**: None. Upon determination that the ADS600-B is defective, send the unit to a properly rated FAA certificated facility for rebuild.
- 5. Maintenance instructions: All maintenance associated with the ADS600-B AML STC installation is on condition. The ADS600-B is designed to detect internal failures by continuous execution of various system self-tests. Errors are annunciated by the UAT Failure indicator, or CDTI messages. All maintenance associated with the TransMonSPE installation is on condition.
- **6. Troubleshooting information**: If error indications are displayed by the UAT Fail Indicator or by other system equipment, consult the Table 2-3: Trouble Shooting Guide.
- 7. Removal and replacement information: If any work has been done on the aircraft that could affect the system wiring, antenna cabling, or any interconnected equipment, verify that no failure messages are annunciated on any interfaced controller or display.

Refer to Appendix A.1 ADS600-B System Configuration Log, and A.2 ADS600-B equipment locations.

- 8. Diagrams: Appendix A of the ADS600-B Installation Manual contains wiring diagrams for the ADS600-B. The diagrams specify the type of wire required.
- 9. Special inspection requirements: None
- 10. Application of protective treatments: None
- 11. Data: Refer to section 4.4 of the ADS600-B Installation Manual for structural fastener information.

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

8. Description of Work Accomplished (If more space is required, attach additional actions of the space is required, attach additional actions of the space is required.)	onal sheets. Identify with aircraf	t nationality and registration	mark and date work completed.
	N5083W	·	6/14/16
	Nationality and Registration M	ark	Date
12. List of special tools: A Milliohm meter v	will be required for electrical bondi	ng checks. Use Agilent HP 433	8B, or equivalent.
13. For commuter category aircraft: N/A			
<b>14. Recommended overhaul periods:</b> The s ADS600-B transmitter and receiver will monireplaced.			
15. Airworthiness limitation section: None			
16. Revision: To revise this ICA, a letter acceptance, and approve any revision to will release the revised ICA for customer document will be available on the NavW revision(s), will be sent to dealers/installed.	the Airworthiness Limitations use, and provide any required orx website (www.navworx.com	Section 1.3. After FAA accell notification of the revision.	ptance/approval, NavWorx The latest revision of this
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	☐ Additional Sheets Are A	Attached	

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#### United States of America

# Department of Transportation Federal Aviation Administration

# Supplemental Type Certificate

Number SAII172SC

This certificate issued to:

NavWorx Incorporated 3706 Big A Road Rowlett, TX 75089

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:

I\*See attached

Make:

FAA Approved Model List (AML)

Model:

For list of approved models and Applicable airworthiness

Regulations|

Description of Type Design Change:

Installation of an ADS600-B Automatic Dependent Surveillance-Broadcast (ADS-B) Universal Access Transceiver (UAT) system and Global Positioning System (GPS) antenna in accordance with Master Drawing List 240-0013-00. Revision 10, dated May 29, 2014, or later FAA approved revision. Airplane Flight Manual Supplement 240-0018-00, Revision 2, dated May 4, 2014, is required.

#### Limitations and Conditions:

A copy of this certificate must be maintained as part of the permanent records for the modified aircraft. The installer must determine whether this design change is compatible with previously approved modifications. If the holder agrees to permit another person to use this certificate to alter the product, the holder shall give the other person written evidence of that permission. See attached AML for other required aircraft systems.

Certification Basis: See attached Approved Model List.

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: July 15, 2013 Date of issuance: June 02, 2014 Date reissued:

Date amended:

By direction of the Administrator

Signature

S. Frances Cox

Title

Manager Special Certification Office.

Southwest Region

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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#### **APPROVED MODEL LIST**

# Installation of a NavWorx ADS600-B Universal Access Transceiver

#### **FAA STC Number SA11172SC**

#### 1. AML REVISION LOG

Revision Level	Description of Changes	FAA Approval	Approved Date
IR	Initial Release	S. Frances Cox	June 02, 2014
A ·	Added reviewed models Removed "Pages Affected" column from this log	S. Frances Cox	August 21, 2014
В	Revised notes to remove specific interface equipment	Scott Horn	October 10, 2014
С	Added reviewed models	Scott Horn	February 10, 2015
D	Added reviewed models	Scott Horn	August 26, 2015
E	Added reviewed models	Eric Kinney for Scott Horn	October 27, 2015
F	Added reviewed models	John Hardio	Merch 15, 2016
		Acting Manager ASW-140	_ <b>,</b>

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#### 2. Introduction

This document is the FAA Approved Model List for STC No. SA11172SC for installing the NavWorx ADS600-B Universal Access Transceiver and associated antennas into eligible aircraft.

Revisions to the AML must be coordinated between the STC holder and the responsible ACO, and require FAA approval.

#### **IMPORTANT NOTES:**

This STC is only applicable to CAR 3 or 14 CFR, Part 23, Class I, II or III aircraft, as defined in Advisory Circular AC 23.1309-1C, which are listed in this AML. Installations in 14 CFR, part 23 Class IV, part 25, part 27 and part 29 aircraft are not authorized under this STC.

Refer to the Installation Manual, 240-0021-00-(), for information about approved interface equipment.

Aircraft noted by "\*" are subject to additional approved data in accordance with the STC limitations for antenna installation on composite or fiberglass structure.

Aircraft noted by "\*\*" are subject to additional approved data in accordance with the STC limitations for antenna installations on pressure vessels.

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#### 3. Certification Basis

Based on 14 CFR §§ 21.115 and 21.101, and FAA policy for significant changes in FAA Order 8110.48, the certification basis for the Approved Model List is as follows:

- The type certification basis is shown on Approved Model List for parts not changed or not affected by the change.
- The certification basis for parts changed or affected by the change since the reference date of applications, July 15, 2013, is based upon part 23 as amended by Amendment 23-62.

The certification basis for this modification was determined to be:

#### Regulations at the latest amendment 23-0 through 23-62

23.29; 23.301(a)(b); 23.303; 23.305; 23.307(a); 23.561(b)(3)(e); 23.603; 23.605; 23.607(a)(b), 23.609; 23.627; 23.777(a)(b); 23.1351; 23.1365(a), (b), (d), (e); 23.1501; 23.1519; 23.1529; 23.1581 (a), (b)(1)(3), (f)

#### Regulations at an intermediate amendment

Regulations at amendment 23-20:

23.1301

Regulations at amendment 23-33: 23.777

Regulations at amendment 23-43: 23.1322; 23.1357(a), (b), (c)

Regulations at amendment 23-49: 23.1431(a), (b),

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SA11172SC

# 4. SA11172SC Approved Model List

AML Amendment	Original Issue	Original Issue	Original Issue	Original Issue	Y	A	A	A	A	A	¥	A	<
Approved data in addition to that listed on STC cover	None	None	None	None	None	None	None	None	None	None	None	None	None
Type Certificate Data Sheet	A3SO	A7SO	3A12	3A19	3A15	A-777	AICE	3A17	A13CE	A6SW	1A10	1A15	3A21
Aircraft Model(s)	PA-32-260, PA-32-300, PA-32S-300, PA-32R-300, PA-32RT-300, PA-32RT-300T, PA-32R-301(SP), PA-32R-301(HP), PA-32R-301T, PA-32-301, PA-32-301T	PA-34-200, PA-34-200T, PA-34-220T	172, 172A, 172B, 172C, 172D, 172E, 172F, 172G, 172H, 172I, 172K, 172M, 172N, 172P, 172Q, 172R, 172S	150, 150A, 150B, 150C, 150D, 150E, 150F, 150G, 150H, 150I, 150K, 150L, 150M, 152, A152	35-33, 35-A33, 35-B33, 35-C33, 35-C33A, E33, E33A, E33A, F33C, G33, H35, J35, K35, M35, N35, P35, S35, V35, V35A, V35B, 36, A36, A36TC, B36TC	35, A35, B35, C35, D35, E35, F35, G35, 35R	19A, B19, M19A, 23, A23, A23A, A23-19, A23-24, B23, C23, A24, A24R, B24R, C24R	172RG, P172D, R172E, R172F, R172G, R172H, R172J, R172K, 175, 175A, 175B, 175C	177, 177A, 177B	M22	PA-23, PA-23-160, PA-23-235	PA-24, PA-24-250, PA-24-260, PA-24-400	210, 210A, 210B, 210C, 210D, 210E, T210F, 210G, T210G, T210G, 210H, T210H, 210J, T210J, 210K, T210K, 210L, T210L, 210M, T210M, 210N, P210N, T210N, 210R, P210R, T210R, 210-5 (205), 210-5A, (205A)
Aircraft Make	Piper Aircraft, Inc.	Piper Aircraft, Inc.	Cessna Aircraft Company	Cessna Aircraft Company	Beechcraft Corporation	Beechcraft Corporation	Beechcraft Corporation	Cessna Aircraft Company	Cessna Aircraft Company	Mooney International Corporation	Piper Aircraft, Inc.	Piper Aircraft, Inc.	Cessna Aircraft Company

NavWorx Incorporated 3706 Big A Road Rowlett, TX 75089 P/N: 240-0018-00 Rev 3

#### **FAA APPROVED**

#### **AIRPLANE FLIGHT MANUAL SUPPLEMENT**

for

ADS600-B™

as installed in

Make and Model Airplane

Registration No. <u>115083W</u> s/N <u>P21000635</u>

This document serves as an Airplane Flight Manual Supplement or as a Supplemental Airplane Flight Manual when the aircraft is equipped in accordance to Supplemental Type Certificate SA11172SC for installation and operation of the NavWorx ADS600-B Universal Access Transceiver. This document must be incorporated into the FAA Approved Airplane Flight Manual or provided as an FAA approved Supplemental Airplane Flight Manual.

The information contained herein supplements or supersedes the information made available to the operator by the manufacturer in the form of clearly stated placards, markings, or manuals or in the form of an FAA approved Airplane Flight Manual, only in those areas listed herein. For limitations, procedures and performance information not contained in this document, consult the basic placards, markings, or manuals or the basic FAA approved Airplane Flight Manual.

FAA APPROVED:

S. Frances Cox, Manager

Special Certification Office Federal Aviation Administration

Fort Worth, TX 76137

FAA Approved

Date:

DEC 0 9 2014

Page 1 of 13

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# ADS600-B™ Instructions for Continued Airworthiness 240-0017-00 Revision 10

#### Part 23 AML STC SA11172SC

NavWorx® Incorporated 3706 Big A Road Rowlett TX, 75089

#### Confidential

This document and the specifications contained herein are the property of NavWorx Incorporated and may not be reproduced or used in whole or part as the basis for manufacture or sale of products without written permission.

#### **Revision History**

Revision	Date	Description of Change
0	08/21/2013	Initial Release
1	08/30/2013	Updated per input from MKG-AEG and FTW ACO
2	09/18/2013	Updated per input from MKG-AEG and FTW ACO
3	10/29/2013	Updated per input from FTW ACO.
4	12/01/2013	Updated Wiring Diagram (TC20 Altitude Encoder). Added ADS600-B Installation Drawing.
5	01/25/2014	Updated per input from FTW ACO.
6	04/13/2014	Added Altitude Encoder Single Pole Single Throw (SPST) switch to Wiring Diagram.
7	05/04/2014	Updated SW version number of TC20 in wiring diagram
8	09/20/2014	Updated IM to Rev 8 and MDL to Rev 11
9	12/04/2014	Updated IM to Rev 9 and MDL to Rev 12, added TransMonSPE and changes per AEG.
10	12/17/2014	Added UAT receiver part numbers. Changed Section 2.5.1 Servicing Information.

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U.S. Department of Transportation	

Federal Aviation

### **MAJOR REPAIR AND ALTERATION**

Form Approved	Electronic Tracking	Numbe				
OMB No.2120-0020	_					
2/28/2011						
For FAA Use Only						

(Airframe, Powerplant, Propeller, or Appliance)

INSTRUCTIONS: Print or type all entries. See Title CFR §43.9, Part 43 Appendix B, and AC 43.9-1 (or subsequent revision thereof) for instructions and disposition of this form. This report is required by law (49 U.S.C. §44701). Failure to report can result in a civil penalty for each such violation (49 U.S.C. §46301(a)). Nationality and Registration Mark Serial No. 1. Aircraft N5083W P21000635 Make Model Series Cessna P210N Name (As shown on registration certificate) Address (As shown on registration certificate) 2. Owner **ABACUS LTD** Address PO BOX 400 PORT SAINT JOE City State FLORIDA Country UNITED STATES Zip 32457 3. For FAA Use Only 4. Type 5. Unit Identification Repair Alteration Unit Make Model Serial No. X (As described in item 1 above) **AIRFRAME POWERPLANT PROPELLER** Type **APPLIANCE** Manufacturer 6. Conformity Statement A. Agency's Name and Address B. Kind of Agency Name Skyworld Avionics LLC U.S. Certificated Mechanic Manufacturer Address 5083 Airport Rd Hangar 46 C. Certificate No. Foreign Certificated Mechanic City Midland State Virginia Certificated Repair Station 9MIR Zip 22728 Country **United States** Certificated Maintenance Organization I certify that the repair and/or alteration made to the unit(s) identified in item 5 above and described on the reverse or attachments hereto have been made in accordance with the requirements of Part 43 of the U.S. Federal Aviation Regulations and that the information furnished herein is true and correct to the best of my knowledge. Extended range fuel per Signature/Date of Authorized Individual 14 CFR Part 43 App. B Zachary Gatewood 6/14/16 7. Approval for Return To Service Pursuant to the authority given persons specified below, the unit identified in item 5 was inspected in the manner prescribed by the Administrator of the Federal Aviation Administration and is APPROVED REJECTED FAA Flt. Standards Person Appoved by Canadian Manufacturer Maintenance Organization Inspector Department of Transport BY Other (Specify) **FAA Designee** X Repair Station Inspection Authorization Certificate or Designation No. Signature/Date of Authorized Individual Zachary Gatewood 6/14/16

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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 Accomp	ished	
(If more space is required, attac	h additional sheets. Identify with aircraft nationality and	registration mark and date work completed
	N5083W	6/14/16
	Nationality and Registration Mark	L

Removed King KT76A P/N: 066-1062-00 S/N: 27204 and installed Avidyne AXP 340 P/N: 200-00247-000 S/N: 00848 in same location interfaced with MLB100 using exsisting transponder antenna. Installed IAW STC: SA00352BO using approved model list and Avidyne install manual. Completed configuration and checkout performed, satisfactory. Updated Weight and Balance, equipment list, wiring diagrams, performed electrical load analysis, satisfactory, all with A/C records.

#### **Instructions for Continued Airworthiness**

- 1. Introduction: This document identifies the Instructions for Continued Airworthiness (ICA) for the modification of the aircraft listed in AVAXP-006 Transponder STC Approved Model List by installation of an Avidyne 200- 00247-000 Transponder. Modification of an aircraft by this Supplemental Type Certificate obligates the aircraft operator to include the maintenance information provided by this document in the operator's Aircraft Maintenance Manual and the operator's Aircraft Scheduled Maintenance Program.
- 2. Description: The AXP340 transponder is a panel mounted unit which provides Mode A/C/S replies to Air Traffic Control ground surveillance radar
- 3. Control, operation information: The Transponder System can be controlled using the button and knobs on the bezel of the unit. Pressing the MODE button cycles through the modes of the transponder (e.g., ALT, ON, SBY, GND). Pressing the MODE button continuously for three seconds will turn the unit ON/OFF.
- 4. Servicing information: The 200-00247-XXX transponder can only be serviced by qualified and properly rated facility.
- 5. Maintenance instructions: Other than the scheduled and periodic inspection tasks discussed below, maintenance of the Avidyne Transponder is based on condition and function only; no other periodic maintenance is required.
- 6. Troubleshooting information: Refer to the manufacturers' installation and user's manuals to assist in troubleshooting. The following items present common installation problems and recommended actions for the Avidyne AXP340.
- 7. Removal and replacement information: Removal and replacement instructions, including system set-up and installation verification, are contained in the AXP340 Installation Manual. Unit removal, installation, setup and checkout should be performed by an Avidyne Authorized Service Center. Caution: Prior to removing any piece of electronic equipment, aircraft power must be removed from the system.
- 8. Diagrams: N/A
- 9. Special inspection requirements: Every 24 calendar months, the transponder must be tested per 14 CFR 91.413.
- 10. Application of protective treatments: N/A
- 11. Data: Reference the 200-00247-XXX STC Master Document List, Avidyne Document AVAXP-005, for installation data.
- 12. List of special tools: N/A
- 13. For commuter category aircraft: N/A
- 14. Recommended overhaul periods: No overhaul periods are required for this installation.
- 15. Airworthiness limitation section: There are no Airworthiness Limitations as defined in 14 CFR § 23, Appendix G. The Airworthiness
  - X Additional Sheets Are Attached

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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.

<ol><li>Description of Work Accomplished (If more space is required, attach addition</li></ol>	onal sheets. Identify with aircraft nationality and n	registration mark and date work completed.
	N5083W	6/14/16
	Nationality and Registration Mark	Date
Limitations section is FAA approved and spec unless an alternative program has been FAA approved the section is FAA approved and specific the section is the	cifies maintenance required under § §43.16 and 91.40 approved.	33 of the Federal Aviation Regulations
the STC holder. If you would like to be notified	Il be coordinated through the Boston Aircraft Certific ad of future revisions to this manual please furnish the nual Current Revision Status of the Manual E-mail ac Bedford Road Lincoln, MA 01773	e information listed below: Name Address
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	Additional Sheets Are Attached	

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#### United States of America

#### Department of Transportation Federal Aviation Administration

# Supplemental Type Certificate

Number SA00352BO

This certificate issued to:

Avidyne Corporation 55 Old Bedford Road Lincoln, Massachusetts 01773

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: Model: See attached FAA Approved Model List (AML), Document No. AVAXP-006, Revision 00, FAA approved on April 09, 2015, or later FAA approved revision, for the list of approved airplane models.

applicable installation data requirements, and specific limitations.

Description of Type Design Change:

Installation of an Avidyne Corporation Mode A/C/S Transponder with ADS-B Out capability, Model AXP340 loaded with Version 3.13 software (or later FAA approved version), in accordance with Avidyne Corporation Master Document List (MDL), Document Number AVAXP-005, Revision 00, dated January 23, 2015, or later FAA approved revision.

#### Limitations and Conditions:

1. Operation must be in accordance with the Avidyne Corporation Aircraft Flight Manual Supplement (AFMS) Document Number 600-00309-000, Revision 00, FAA approved on April 09, 2015, or later FAA approved revision.

The AFMS must be carried in the aircraft during all flights. (continued on Page 3 of 4)

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: September 19, 2014

Date reissued:

Date of Issuance: April 09, 2015

Date amended:

By direction of the Administrator

Signature \_\_\_\_\_

Manager, Boston Aircraft Certification Office

Title\_\_\_\_\_

Any alteration of this certificate is punishable by a fine of not exceeding \$1,000, or imprisonment not exceeding 3 years, or both. 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 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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# Avidyne 200-00247-XXX Transponder Instructions for Continued Airworthiness

As installed in

Cessna Palon

(Make and Model Airplane)

Reg. No. <u>SOB3W</u> S/N P21000635

**AVIDYNE**CORPORATION

55 Old Bedford Road Lincoln, MA 01773

#### **Important Notice**

With respect to the AML STC, the physical mounting of transponder antenna are specifically excluded from the STC.

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Avidyne Corporation 55 Old Bedford Road Lincoln, MA 01773

> FAA Approved Airplane Flight Manual Supplement For Airplanes listed in AML with Avidyne AXP340 Transponder p/n 200-00247-XXX

> > Cessna P116N
> > Make and Model Airplane

Registration No. N. 5083W

Serial No. Pal 000635

This supplement must be attached to the applicable FAA Approved Airplane Flight Manual when Avidyne 600-00309-000 200-00247-XXX AXP340 Transponder is installed in accordance with STC SA00352BO. The information contained herein supplements or supersedes the basic manual only in those areas listed. For limitations and procedures not contained in this supplement consult the basic Airplane Flight Manual.

FAA Approved

Robert G. Mann, Manager Boston Aircraft Certification Office Federal Aviation Administration Burlington, MA

FAA APPROVED Date: <u>APR 0 9 2015</u>

Page 1 of 10

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# Avidyne 200-00247-XXX Transponder Approved Model List for STC SA00352BO

# **AVIDYNE**CORPORATION

55 Old Bedford Road Lincoln, MA 01773

FAA Approved:

Manager

APR 0 9 2015

Boston Aircraft Certification Office Federal Aviation Administration

Burlington, MA

Document Number		AVAXP-006	Con	trol Category	N/A
Revision	Description			ECO	Date
00	Initial Rele	ase		ECO-15-020	01/12/15

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# **Table of Contents**

1.	Introduction	. 3
2.	Approved Model List	. 4

FAA Approved Date: APR 0 9 2015

Confidential property of Avidyne Corporation

AVAXP-006

Not to be disclosed without permission

Revision: 00, Date: 01/12/15



Make -	TCDS	Model	Certification 8	Specific Data
		210E	CARS	
		210N	CAR 3	
		T210J	CAR 3	
		T210H	CAR 3	
		T210G	CAR 3	
,		T210F	CAR 3	
	•	P210R	CAR 3	
		P210N	CAR 3	
		210-5A (205A)	CAR 3	
		T210R	CAR 3	
		210R	CAR 3	
		T210M	CAR 3	
		210M	CAR3	
		210.	CAR 3	
		210K	CAR 3	
		2106	CAR 3	
		210H	CAR3	
		210	CAR 3	
		T210N	CAR 3	
		210-5 (205)	CAR 3	
		T210K	CAR 3	•
		T210L	CAR 3	
	3A24			
		185C	CAR 3	
		A185F	CAR 3	
		A185E	CAR 3	
FAA Approved Date: APR 0 9 2015		-	,	

Page 24 of 61

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Not to be disclosed without permission

AVAXP-006

Revision: 00, Date: 01/12/15

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CO CO
U.S. 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
For F	FAA Use Only

INSTRUCTIONS: Print or type all entries. See Title CFR §43.9, Part 43 Appendix B, and AC 43.9-1 (or subsequent revision thereof) for instructions and disposition of this form. This report is required by law (49 U.S.C. §44701). Failure to report can result in a civil penalty for each such violation (49 U.S.C. §46301(a)).

each such v						<u>`</u>			•			
1. Aircraft Nationality and Registration Mark N5083W							Serial No P21000					
	Make Cessn	a					Model P210N	i .			Series	
2. Owne	Name (			Address	(As show	vn on registr	ation ce	rtificate)				
ABACUS LTD									PO BOX 400			
							City Zip	PORT SAINT JOE 32457 Count			State FLORIDA UNITED STATES	
								32437		ouriu y	ONTED OTATES	
				3. Fo	r F#	AA Use Onl	<u> </u>				<u> </u>	
4. T	уре			5. Un	it Id	entificatior	l					
Repair Alteration Unit Make						Model			Serial No.			
	X	AIRFRA	ME			<del></del>	(As descri	scribed in item 1 above)		ove)		
		POWER	PLANT	·								
		PROPELLER										
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-	yworld Avioni				$\dagger$					Manufacturer		
Address 50	83 Airport Rd	Hangar 46			$\vdash$				Certificate No.			
City Mi	dland			State Virginia	X			ilic	· · · ·			
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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 additio	nal sheets. Identify with aircraft nationality and registration	n mark and date work completed.
	N5083W	6/14/16
	National Desiration and Desiration a	
	Nationality and Registration Mark	Date

Removed Garmin GNS430W P/N: 011-01060 S/N:97102832 and installed Avidyne IFD540 P/N:700-00182-000 S/N:M144938143 i same location using exsisting antennas interfaced with Aspen EFD1000 and MLB100. Installed IAW STC: SA00343BO using AMI Completed post-install configuration and checkout, Satisfactory. Updated Weight and Balance, New CG: 41.4 New useful load:1193.8 New moment: 116,185.84 New empty weight: 2806.14, equipment list, wiring diagrams, electrical load analysis performed, satisfactory, all with Aircraft Records.

#### **Instructions for Continued Airworthiness:**

- 1. Introduction: Removed Garmin GNS430W and installed Avidyne IFD540W IAW STC# SA00343BO
- **2. Description**: The IFD540 system is a panel mounted integrated GPS/NAV/Comm system which provides navigation, communication, and multifunction display capability in one display. The IFD540 is interfaced with a CDI, auto-pilot and audio panel.
- 3. **Control, operation information:** The IFD540 system can be controlled using the button and knobs on the bezel of the unit. Alternately, some functions can be controlled using the touch-screen on the unit's display.
- **4. Servicing information:** The 700-00182-XXX and 700-00179-XXX IFD can only be serviced by qualified and properly rated facility.
- **5. Maintenance instructions:** Maintenance of the Avidyne IFD540 GPS/NAV/COM is based on condition and function only; no other periodic maintenance is required.
- **6. Troubleshooting information**: Refer to the manufacturers' installation and user's manuals to assist in troubleshooting.
- 7. Removal and replacement information: Removal and replacement instructions, including system set-up and installation verification, are contained in the Integrated Flight Display Installation Manual. Unit removal, installation, setup and checkout should be performed by an Avidyne Authorized Service Center.
- 8. Diagrams: N/A
- 9. Special inspection requirements N/A
- 10. Application of protective treatments: N/A
- **11. Data:** Reference the 700-00182-XXX and 700-00179-XXX STC Master Document List, Avidyne Document AVIFD-306, for installation data. The Installation Manual, Avidyne Document 600-00299-000 Rev. 04 (or later FAA approved revision), contains the wiring diagrams for the system. Also, reference FAA AC 43.13 as needed.
- 12. List of special tools: No special tools are required for this installation.
- 13. For commuter category aircraft: N/A

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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 addition	nal sheets. Identify with aircraft na	tionality and registration r	nark and date work completed.
	N5083W		6/14/16
	Nationality and Registration Mark		Date
14. Recommended overhaul periods	::No overhaul periods are requ	uired for this installati	on.
<b>15. Airworthiness limitation section</b> G. The Airworthiness Limitations sect 91.403 of the Federal Aviation Regula	ion is FAA approved and speci	fies maintenance requ	uired under § §43.16 and
<b>16. Revision:</b> Revisions to this docume Kansas City AEG, and the STC holder. furnish the information listed: Name Status of the Manual E-mail address I Old Bedford Road Lincoln, MA 01773	If you would like to be notified Address City, State, and ZIP Co Phone Number. Please submit	d of future revisions to ode Part Number of M	o this manual please anual Current Revision
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	Additional Sheets Are Attac	hed	

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Avidyne Corporation 55 Old Bedford Road Lincoln, MA 01773

#### **FAA Approved**

Airplane Flight Manual Supplement

For

Make and Model Airplane

with

Avidyne Integrated Flight Displays p/n 700-00182-XXX and 700-00179-XXX

Registration No. 105083W

Serial No. P2100635

This supplement must be attached to the applicable FAA Approved Airplane Flight Manual when Avidyne 700-00182-XXX Integrated Flight Display (IFD) and/or 700-00179-XXX Integrated Flight Display installed in accordance with STC SA00343BO. The information contained herein supplements or supersedes the basic manual only in those areas listed. For limitations and procedures not contained in this supplement consult the basic Airplane Flight Manual.

**FAA** Approved

Robert G. Mann, Manager

Boston Aircraft Certification Office Federal Aviation Administration

Burlington, MA

**FAA APPROVED** 

Date: JUN 1 8 2015

Page 1 of 22 8 N 600/00298-000 808-007

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## Avidyne 700-00182-XXX and 700-00179-XXX

# Integrated Flight Display Instructions for Continued Airworthiness

As installed in

Cessna P210A

(Make and Model Airplane)

Reg. No. \$5083W S/N P21000635

**AVIDYNE**CORPORATION

55 Old Bedford Road Lincoln, MA 01773

### **Important Notice**

With respect to the AML STC, the physical mounting of antennas are specifically excluded from the approval in the case of installations on the pressure vessel of pressurized aircraft or composite aircraft unless approved data is listed in the Master Document List of the STC.

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## Avidyne 700-00182-XXX and 700-00179-XXX GPS/Nav/Comm Approved Model List for STC SA00343BO



55 Old Bedford Road Lincoln, MA 01773

FAA Approved:

Manager

Boston Aircraft Certification Office Federal Aviation Administration

Burlington, MA

Document Number		AVIFD-318		Control Category	N/A
Revision	Description	cription		ECO	Date
00	Initial Release			ECO-14-200	07/11/14
01	Added 700	-00179-XXX		ECO-15-129	03/20/15
02	Updated T	able		ECO-16-185	06/02/16

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## **Table of Contents**

1.	Introduction	3
2.	Approved Model List	4

FAA Approved Date: June 8, 2016

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Aircraft Make	Aircraft Model(s)	Type Certificate Number	Certification Basis	Model Specific Information
Textron Aviation Inc. (Cessna)	310, 310A (USAF U-3A), 310B, 310C, 310D, 310E (USAF U-3B), 310F, 310G, 310H, 310I, 310J, 310J-1, 310K, 310L, 310N, 310P, E310H, E310J, T310P, 310Q, T310Q, 310R, T310R	3A10	CAR 3	
	172, 172A, 172B, 172C, 172D, 172E, 172F, 172G, 172H, 172I, 172K, 172L, 172M, 172N, 172P, 172Q, 172R, 172S,	3A12	CAR 3, 14 CFR Part 23	
	182, 182A, 182B, 182C, 182D, 182E, 182F, 182G, 182H, 182J, 182K, 182L, 182M, 182N, 182P, 182Q, 182R, 182S, 182T, R182, T182, T182T, TR182	3A13	CAR 3, 14 CFR Part 23	
	172RG, P172D, R172E, R172F, R172G, R172H, R172J, R172K	3A17	CAR 3	
	175, 175A, 175B, 175C			
	150, 150A, 150B, 150C, 150D,	3A19	CAR 3	
,	150E, 150F, 150G, 150H, 150J, 150K, 150L, A150L, 150M, A150K, A150M		14 CFR Part 23	
	152, A152			
	210, 210A, 210B, 210C, 210D, 210E, 210F, 210G, 210H, 210J, 210K, 210L, 210M, 210N, 210R, 210-5 (205), 210-5A (205A), P210N, P210R, T210F, T210G, T210H, T210J, T210K, T210L, T210M, T210N, T210R	3A21	CAR 3	
	185, 185A, 185B, 185C, 185D, 185E, A185E, A185F	3A24	CAR 3	
	320, 320-1, 320A, 320B, 320C, 320D, 320E, 320F	3A25	CAR 3	
	340, 340A, 335			
	140A	5A2	CAR 3	,
	180, 180A, 180B, 180C, 180D, 180E, 180F, 180G, 180H, 180J, 180K	5A6	CAR 3	
	525, 525A	A1WI	14 CFR Part 23	The aircraft's equipment list must be updated for single pilot operation.

FAA Approved Date: June 8, 2016

Confidential property of Avidyne Corporation

AVIFD-318

Not to be disclosed without permission

Revision: 02, Date: 06/02/16

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#### United States of America

### Department of Transportation Federal Aviation Administration

# Supplemental Type Certificate

Number SA00343BO

This certificate issued to:

**Avidyne Corporation** 55 Old Bedford Road Lincoln, Massachusetts 01773

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: Model: See attached FAA Approved Model List (AML), Document No. AVIFD-318, Revision 01, FAA approved on June 18, 2015, or later

FAA approved revision, for the list of approved airplane models. applicable installation data requirements, and specific limitations.

Description of Type Design Change:

Installation of a single configuration or of a dual configuration Avidyne Corporation Integrated Flight Display, Model IFD540 and/or Model IFD440, loaded with Release 10.1 software (or later FAA approved release), in accordance with Avidyne Corporation Master Document List (MDL), Document Number AVIFD-306, Revision 04, dated May 27, 2015, or later FAA approved revision.

#### **Limitations and Conditions:**

Operation must be in accordance with the Avidyne Corporation Aircraft Flight Manual Supplement (AFMS) Document Number 600-00298-000, Revision 02, FAA approved on June 18, 2015, or later FAA approved revision.

The AFMS must be carried in the aircraft during all flights. (continued on Page 3 of 5)

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: February 14, 2013

Date reissued:

Date of Issuance: July 24, 2014

Date amended: June 18, 2015

By direction of the Administrator

Signature

Manager, Boston Aircraft Certification Office

Title

Any alteration of this certificate is punishable by a fine of not exceeding \$1,000, or imprisonment not exceeding 3 years, or both. 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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SkyWorld Aviation, Inc. 5083 Airport Road Hangar 20 PO Box 147 Midland, Virginia 22728 540-788-9300

June 21, 2016

Federal Aviation Administration Aircraft Registration Branch AFS-750 PO Box 25504 Oklahoma City, OK 73125

Dear Sir/Madame:

Enclosed is Form # 337 Major Repairs and Alteration for US N5083W regarding the installation of:

- 1) Avidyne IFD540 PN: 700-00182-000, SN: M144938143 IAW STC: SA00343BO.
- 2) Avidyne AXP 340 PN: 200-00247-000, SN: 00848 IAW STC: SA00352BO.
- 3) NavWorx PN: 200-0011-02-09, SN: 15520027 IAW STC: SA11172SC.

Should you have any questions or concerns please contact me or Ronald Gatewood at the above address.

Thank you,

Kelli Gatewood General Manager

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# Federal Aviation Administration

# **MAJOR REPAIR AND ALTERATION**

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

**Electronic Tracking Number** 

(Airframe, Powerplant, Propeller, or Appliance) For FAA Use Only Print or type all entries. See Title 14 CFR §43.9, Part 43 Appendix B, and AC 43.9-1 (or subsequent revision thereof) for INSTRUCTIONS: 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 for each such violation. (49 U.S.C. §46301(a)) Nationality and Registration Mark Serial No. N5083W P21000635 1. Aircraft Make Model Series Cessna P210N Name (As shown on registration certificate) Address (As shown on registration certificate) Abacus, LTD AddressP. O. box 1381 2. Owner cityJacksonville State OR zip97530-1381 CountryUSA 3. For FAA Use Only 4. Type 5. Unit Identification Repair Alteration Unit Make Model Serial Number  $\boxtimes$ AIRFRAME (1) (As described in Item 1 above) POWERPLANT 1. 2. 6. **PROPELLER** Туре **APPLIANCE** Manufacturer 6. Conformity Statement A. Agency's Name and Address B. Kind of Agency Name David Carter  $\boxtimes$ U.S. Certificated Mechanic ☐ | Manufacturer Address478 White Avenue C. Certificate No. Foreign Certificated Mechanic cityHenderson State TN 2707291 Certificated Repair Station zip38340 CountryUSA Certificated Maintenance Organization D. I certify that the repair and/or alteration made to the unit(s) identified in item 5 above and described on the reverse or attachments hereto have been made in accordance with the requirements of Part 43 of the U.S. Federal Aviation Regulations and that the information furnished herein is true and correct to the best of my knowledge. Extended range fuel Signature/Date of Authorized Individual per 14 CFR Part 43 App. B 6/9/2015 7. Approval for Return to Service Pursuant to the authority given persons specified below, the unit identified in item 5 was inspected in the manner prescribed by the Administrator of the Federal Aviation Administration and is APPROVED REJECTED FAA Flt Standards Person Approved by Canadian Manufacturer Maintenance Organization Inspector Department of Transport BY Other (Specify) FAA Designee Repair Station Inspection Authorization Certificate or Signature/Date of Authorized Individual Designation No. David Carter 6/9/2015 2707291

#### 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. Idea	ntify with aircraft nationality and registration mark	and date work completed.)
	N5083W	6/9/2015
	Nationality and Registration Mark	Date
Fabricated and installed a patch on left pilots floorboard usinches and installed at the left forward corner of the cabin fluid side of the skin split with a combination of original rivet pate Manual section 18 paragraphs 18-2, 18-7, 18-13, 18-56, 18-Table 4-9, 4-10, and 4-11.	oor skin above the left fuel header tank. Installed orn and extra rivets. Work performed in accordance	a minimum of 12 rivets on each
end-		
	• .	
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		•
	i.	
	•	•
		· · · · ·
* :		
~~~~	dditional Sheets Are Attached	

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

Electronic Tracking Number

of Trans Federa Admini	spor I Av	tation riation	:	(Ai				Propeller, or Ap			For FAA Use Or	nly		
instruct	tions	s and disp ion. (49 U	osition of S.C. §463	this 101(a	form. 1	This report is	14 requ	CFR 43.9, Part 43 uired by law (49 U.S	Appendix B, a i.C. §44701).	nd AC 43.9-1 (or su Failure to report can r	bsequent revision esult in a civil pen	thereof) for lalty for each		
			lationality a		-	on Mark			Serial No.					
1. Aircı	raft		ISA	N5	083W				P21000635					
		1	fake						Model		Series			
			Cessna						P210N		200			
2. Own	er		lame (As sl Abacus LT		on regis	stration certific	cate)		Address (As shown on registration certificate) Address: PO Box 1381 City: Jacksonville State: OR. Zip: 97530-1381 Country: USA					
								3. For FAA Use	Only					
	. Ty	ne	<del></del>					5 Lie	it Identification					
Repair	—f-	Alteration		5. Unit Identification Unit Make Model							Sari	al No		
Торин	+	raciadon	AIRF		ΛE	<b>u.</b>	'	wake	cribed in item 1 above)	Serial No.				
		X	POWE	RPL	ANT		Cor	ntinental		TSIO-520-P	506	376		
			PROF	PELL	.ER									
			APPL	.IAN	CE	Type Manufacture	er							
								6. Conformity Sta		•				
		<u>'s Name a</u> er MFR	nd Address	<u> </u>				B. Kind of Agend	y ficated Mechani		C. Certificate	acturer		
		rus Drive	p.						ertificated Mech		GPCI			
		OR 97							ed Repair Station		Class I & II			
_		<u> </u>			,				d Maintenance		Radio Class			
hereto	ha	ve been	made in	ac	cordanc	e with the correct to the	req e be	uirements of Par st of my knowledg	43 of the U	ve and described or .S. Federal Aviatio	n the reverse or n Regulations a	attachments nd that the		
		ange fuel			Signati   10-10-2		ithor	ized Individual		0				
Per 14 App. B		R Part 43	<b>L</b> _	_	Richard T. Fontes Nucleard V. Jank									
Durau		to the ev	thority wi			ifi d l		Approval for Return		an increased in the				
						s specified t ninistration a			_	as inspected in the REJECTED	manner prescrib	ed by the		
			Standards									ada		
BY		FAA Des	ignee	x	Repair	Station		Inspection Authoriza	tion	Other (Specify)				
Certifica	ite o	r Designa	tion No.	•	Signatu 10-10-2		thori	zed Individual	, .					
GC	PR1	85E			Richard	d T. Fontes		- As	chart i	1. 16.16				

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 aircraft nationality	y and registration ma	rk and date work completed.)	
		USA	N5083W	10-10-2014
	'	Nationality an	d Registration Mark	Date
1.	Removed six (6) TCM fuel nozzles p/n 632748-14B-NB and number GT14B, s/n 24150 per General Aviation Modification Procedure number IP-97-002 Rev 005 dated October 05, 2003 Aviation Modifications, Inc. Installation Procedure number II	ns, Inc's STC# SE 5. Instructions for	E09289SC PMA No. PQ continued airworthines	821SW per Installation s are contained in General
	to Weight and Balance change and Equipment List was revised. aspections required by FAR 91.409 are included in their inspections.			o ensure all applicable
**	**************************************	*****	********	******
				;
			·	
			. ·	
	☐ Additional Si	heets Are Attached		

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
	For FAA Use Only

of Transportat Federal Aviat Administratio	tion	(Airfra	ame, P	Powerplant, F	, rop	elle	r, or App	liance)				
instruction	TIONS: Print ns and dispos ntion. (49 U.S.	sition of th	his form.	es. See Title 14	↓ CFF equire	R §43 ed by	3.9, Part 43 law (49 U.S	Appendix B, ar 3.C. §44701). Fa	nd A0 ailure	2 43.9- to repo	1 (or subs	sequent revision thereof) for sult in a civil penalty for each
	Nationality N5083W		gistratio	n Mark				Serial No. P21000635				
1. Aircraft	Make Cessna					Model P210N						Series
<u>_</u>	Name (A:	s shown	on regist	tration certificate)	<del>,                                    </del>	—		Address (As s	certificate)			
2. Owner	ABACUS	S LTD	-					Address Po Bo	ox 13	881		·
								City Jackson Zip 97530	State OR try United States			
						3. Fo	or FAA Use	Only				
							<b>.</b>					•
4. Ty	/pe					5. Ur	nit Identifica	ation	_			
Repair	Alteration	<u>υ</u>	Init		Mak	ке	]		Mod	let		Serial No.
	Z	AIRFRA	AME					(As describe	d in I	tem 1 a	above)	
- 🗆		POWEF	RPLANT		. :		· ·	·				
		PROPE	LLER						_			
_	_			Туре	(							
		APPLIA	NCE	Manufacturer								
A Agency's	Name and A	ddress					formity Stat					
	n Cities Avia	_	shua K	onakowitz	=	-		ated Mechanic			Mani	ufacturer
Address 889	1 Airport Ro				_ [	二		ificated Mechanic			C. Certific	
zip 5544		ountry Uni	ited Sta	<sup>State</sup> <u>Mn</u> otes	- }	$\dashv$		Repair Station  Maintenance Organ	tio		370520	04
D. I certify	fy that the rep been made in	pair and/o	or alterat	tion made to the	ts of F	Part 4	entified in ite	em 5 above and	desc	cribed o	on the reve	erse or attachments hereto at the information
Extended ra per 14 CFR App. B	•		- 1	ature/Date of Aut 01, 2014	horiz	ed In	Jividual		 >			
							l for Return					
Pursuant Administra	to the authoutor of the Fed	ority give deral Aví:	n perso	ons specified be ministration and i	elow, is	the	unit identifi	ied in item 5 v		inspect Rejecte		e manner prescribed by the
	AA Flt. Stand	lards	Man	nufacturer		Mair	ntenance Or	ganization			ons Approve rtment of Tra	ed by Canadian ransport
1 1	AA Designee	,	Rep	air Station	×	Insp	pection Author	orization	Othe	er (Spe	cify)	
Certificate or Designation I 3464563	Certificate or Signature/Date of Authorized Individual Designation No.  MAY 01 2014											

Weight and balance or operating limitation changes shall be e compatible with all previous alterations to assure continued co	* * *	
	N5083W	MAY 01, 2014
8. Description of Work Accomplished	Nationality and Registration M	Mark Date
Installed Rosen sunvisor system kit PN: RCS-300-4, systems Doc# 9051-0118-018 REV. D. IAW STC SAC		d by Rosen sunvisor

US Department
of Transportation
Federal Aviation
Administration

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

OMB No. 2120-0020	Electronic Tracking Number
2/28/2011	For FAA Use Only

Federal Aviatio Administration	n	(Amiria)	, .	owerpiant, i	.00	· · · · ·	ci, çi Appı	idiloc)						
	and disposi	ition of this	s form.									osequent revision thereof) for sult in a civil penalty for each		
	Nationality N5083W		stration	n Mark		Serial No. P21000635								
1. Aircraft	Make CESSN/	Ą					,	Model P210N	Series					
2. Owner	Name (As ABACUS		regist	ration certificate)	ı			Address (As s	·					
2. Owner								City JACKSONVILLE State O						
						3. F	or FAA Use	Only						
					•									
4. Tyr	oe .					5. l	Unit Identifica	tion						
Repair	Alteration	Unit M							Mod	lel	Serial No.			
	Z	AIRFRAME					(As described in Item 1 above)							
		POWERPLANT								•				
		PROPEL	PROPELLER											
		APPLIANCE Manufacturer					,							
					6.		onformity Stat							
A. Agency's N			:4! A		_	B.	Kind of Agend							
Name <u>Trent</u> Address <u>8891</u>	on Wallma		ities A	viation		┙	<del> </del>					nufacturer		
city Plaine		NOILI		State MN	—	$\dashv$	Foreign Certificated Mechanic C  Certificated Repair Station			C. Certificate No.				
zip 55449	Cor	untry USA	١		_	$\dashv$	Certificated Maintenance Organization 357966					67		
have be	en made in	accordan	ce with orrect t	the requirement o the best of my	ts of F know	Part vled	43 of the U.S lge.	m 5 above and Federal Aviatio	desc n Re	cribed o	on the ren	verse or attachments hereto lat the information		
Extended ran per 14 CFR F App. B			1 ~	ature/Date of Aut	thoriz	ed	Individual  W	lli-						
				<del> </del>			al for Return							
Pursuant to Administrat	o the author or of the Fed	ority giver deral Aviat	perso	ons specified be ministration and	elow, is	the		ed in item 5 v		inspect Rejecte		ne manner prescribed by the		
1 1	A Flt. Stand spector	lards	Man	ufacturer		Ma	aintenance Or	ganization	Persons Approved by Canadian Department of Transport					
1 1	A Designee	,	Rep	air Station	×	In	spection Auth	orization	Othe	er (Sp∈	ecify)			
Certificate or Signature/Date of Authorized Individual Designation No. MAY 01, 2014  MAY 01, 2014														

### Work completed for [N5083W] on

	N5083W	MAY 01, 2014
8. Description of Work Accomplished	Nationality and Registr	ration Mark Date
Installed B.A.S. INC. Inertia Reel Should with BAS Instalaion instructions Report 11	er Harness System, serial number	15940 & 15941, in accordance
Weight change negligable.		
	END	·
	·	
	,	•
	•	•
		,

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

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

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

Administra	ation	,					*					
instructi	JCTIONS: Print ons and dispos plation. (49 U.S.	ition of this	form. This report is r	4 CF requir	R §4 ed b	43.9, Part 43 by law (49 U.S	Appendix B, ar 3.C. §44701). Fa	nd A0 nilure	C 43.9- to repo	1 (or s	subsequent revision thereof) for result in a civil penalty for each	
.,,,,		Nationality and Registration Mark					Serial No.					
1. Aircraft		N5083W					P21000635					
	ľ	CESSNA					P210N					
	Name (As	Name (As shown on registration certificate)					Address (As shown on registration certificate)					
2. Owner	MARTIN	MARTIN LEON E					Address 14167 MIELKE PL					
Z. Owner							City         HERMOSA         State SD           zip         57744-5408         Country UNITED STATES					
Zip 5//44-3408 Count  3. For FAA Use Only											BURITY STATES	
											٠.	
	Type					Jnit Identifica	ition	<del></del>				
Repair	Alteration	Uni		Make			Model				Serial No.	
	<b>Z</b>	AIRFRAM	IE —	<u> </u>			· (As described in Item 1 above)					
		POWERF	PLANT									
		PROPELI	LER									
			Туре		-	ĭ	•				·	
		APPLIAN	CE Manufacturer	Manufacturer								
	·		Manadado									
	<u> </u>	<u> </u>	<u> </u>	6	. Co	nformity Sta	tement		-			
A. Agency	's Name and A	ddress				Kind of Agend						
Name TV	<b>WIN CITIES A</b>	VIATION	<b>BENJAMIN PORCI</b>	H	1	U. S. Certific	ated Mechanic				Manufacturer	
										rtificate No.		
City         BLAINE         State         MN					Certificated Repair Station 33377					7731		
	<del></del>	· <del></del>			Ш		Maintenance Organ					
have	e been made in	accordance	alteration made to the e with the requirement prrect to the best of my	nts of	Part	43 of the U.S	em 5 above and . Federal Aviatio	des n Re	cribed ogulation	on the ns and	reverse or attachments hereto that the information	
Extended	range fuel		Signature/Date of Au	ıthoriz	zed-l	Hedividual						
per 14 CF App. B	R Part 43		4/10/14	( 11	,		1					
				7. Ap	prov	al for Return	to Service					
			persons specified boon Administration and		, the	-	ied in item 5 v		inspect Rejecte		the manner prescribed by the	
ВУ	FAA Flt. Stand Inspector	lards	Manufacturer	ınufacturer		aintenance Or	ganization		Depar	tment	roved by Canadian of Transport	
	FAA Designee	Designee Repair Station			Ins	spection Auth	orization	Other (Specify)				
Certificate			Signature/Date of Au			laubividual						
Designation 3464563			4/10/14								•	

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.

N5083W

4/10/14

8. Description of Work Accomplished

Nationality and Registration Mark

Date

REMOVED AND REPLACED LEFT AND RIGHT ORIGINAL FUEL INLET AND CAP ASSEMBLIES WITH NEW MONARCH PREMIUM CAP ASSEMBLIES, P/N: FC-001-2, S/N: 13WW021 AND S/N: 13WW022, BY HARTWIG AIRCRAFT FUEL CELL REPAIR / MONARCH AIR AND DEVELOPMENT, INC. INSTALLED FUEL INLET AND CAP ASSEMBLIES IAW SUPPLEMENTAL TYPE CERTIFICATE SA2456CE: INSTALLATION OF FUEL INLETS AND CAPS IN ACCORDANCE W: I'H BARTON DRAWING LIST NO. WW-1 DATED NOVEMBER 7, 1988, OR LATER "FAA APPROVED" REVISIONS. ADDITIONAL DATA PROVIDED BY HARTWIG, FUEL CAP AND INLET INSTALLATION, DWG LIST NO. CFC100-WW, DATED: 11-07-92, REV. (B).

----- END -----

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

## 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

Ad	Iministration	) 												
INSTRUCTIONS: Print or type all entries. See Title 14 CFR §43.9, Part 43 Appendix B, and AC 43.9-1 (or subsequent revision thereof) for instructions and disposition of this form. This report is required by law (49 U.S.C. §44701). Failure to report can result in a civil penalty for each such violation. (49 U.S.C. §46301(a))														
	•	Nationality N5083W		Regist	tration	Mark				Serial No. P21000635				
1. A	ircraft	Make CESSNA							Model P210N					Series .
	· · · · · ·				registra	ation certificate)	)		Address (As shown on registration certificate)					certificate)
2. C	wner	MARTIN	LEO	ΝE				Address 14167 MIELKE PL City HERMOSA					<u></u>	State SD
								zip. 57744-5408 Country UNITED STATES						y UNITED STATES
						<del>v.</del>		3. F	or FAA Use	Only				
	y								-					
	1. Typ	ре						5. L	Jnit Identifica	ation				
F	Repair	Alteration		Unit	$\dashv$		Mal	ке			Мо	del		Serial No.
		Z	AIRF	RAME	=					(As described in Item 1 above)			above)	
	D POWERPLANT													
			PROI	PELLE										
		Í				Гуре								
			APPL	LIANC	E	Manufacturer								
							6.	Col	nformity Stat	tement				
A. <i>A</i>	<u> </u>	Name and Ad						B. I	Kind of Agend	;y				
Name		CITIES A		<u>iON. ,</u>	<u>JOSH</u>	IUA SHEA	_	✓						ufacturer
City	889 <u>1  </u> BLAI	AIRPORT	RD			State MN	-	_					C. Certific	cate No.
Zip	55449		untry <u>L</u>	JS	•	State IVII4	_	-†		ertificated Repair Station ertificated Maintenance Organization 2771911			11	
Ū	have be	en made in	accord	dance	with t	on made to the the requirement the best of my	s of F	Part	43 of the U.S	em 5 above and . Federal Aviatio	des n Re	cribed o	on the revens and tha	erse or attachments hereto it the information
per	Extended range fuel per 14 CFR Part 43 App. B Signature/Date of Authorized Individual 4/10/14													
						7.	. Арр	ιον	al for Return	to Service				
Pi A	ursuant to dministrate	o the autho or of the Fec	rity g deral A	iven p Viatio	persor n Adm	ns specified be ninistration and i	elow, is	the	e unit identif	ied in item 5 v		inspect Rejecte		e manner prescribed by the
	1 1	A Flt. Stand spector	ards		Manu	ıfacturer		Ма	aintenance Or	ganization			ns Approve tment of Tr	d by Canadian ansport
BY	FA	A Designee			Repa	ir Station	×	Ins	spection Auth	orization	Othe	er (Spe	ecify)	
Desi	Certificate or Signature/Date of Authorized Individual Designation No. 4/10/14													

N	1	T	10	F

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

N5083W

4/10/14

Nationality and Registration Mark

Date

Install vacuum pump cooling shroud in accordance with STC SA3728SW-D RAM Drawing No. 1221, "Vacuum Pump Cooling Shroud Installation", Revision B, dated February 11, 1987 and Ram Drawing No. 1199, "Vacuum Pump Cooling Shroud Detail", Revision B, dated February 17, 1987, or later FAA approved revisions, weight change negligable.

----- END ----

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
F	or FAA Use Only

INSTRUCTIONS: Print or type all entries. See Title 14 CFR §43.9, Part 43 Appendix B, and AC 43.9-1 (or subsequent revision thereof) for instructions and disposition of this form. This report is required by law (49 U.S.C. §44701). Failure to report can result in a civil penalty for each such violation. (49 U.S.C. §46301(a)) Nationality and Registration Mark Serial No. P21000635 N5083W 1. Aircraft Make Model Series **CESSNA** P210N Address (As shown on registration certificate)

Address 14167 MIELKE PL Name (As shown on registration certificate) MARTIN LEON E 2. Owner State SD **HERMOSA** 57744-5408 Country UNITED STATES Zip 3. For FAA Use Only 4. Type 5. Unit Identification Repair Alteration Unit Serial No. Make Model (As described in Item 1 above)  $\mathbf{V}$ AIRFRAME **POWERPLANT PROPELLER** Туре APPLIANCE Manufacturer 6. Conformity Statement A. Agency's Name and Address B. Kind of Agency TWIN CITIES AVIATION (BENJAMIN PORCH) U. S. Certificated Mechanic Manufacturer Address 8891 AIRPORT RD. BOX A2 Foreign Certificated Mechanic C. Certificate No. BLAINE State MN Certificated Repair Station City 3337731 Country UNITED STATES Certificated Maintenance Organization I certify that the repair and/or alteration made to the unit(s) identified in item 5 above and described on the reverse or attachments hereto have been made in accordance with the requirements of Part 43 of the U.S. Federal Aviation Regulations and that the information furnished herein is true and correct to the best of my knowledge. Signature/Date of Authorized Individual Extended range fuel per 14 CFR Part 43 4/10/14 App. B Approva! for Return to Service Pursuant to the authority given persons specified below, the unit identified in item 5 was inspected in the manner prescribed by the ✓ Approved Administrator of the Federal Aviation Administration and is Rejected FAA Flt. Standards Persons Approved by Canadian Manufacturer Maintenance Organization Inspector Department of Transport BY Other (Specify) Inspection Authorization **FAA Designee** Repair Station Signature/Date of Authorized Individual Certificate or Designation No. 4/10/14 3464563

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IVL		ц,	ᆮ

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.

N5083W

4/10/14

8. Description of Work Accomplished

Nationality and Registration Mark

Date

INSTALLATION OF VORTEX GENERATORS ON THE WINGS AND TAIL SURFACES IN ACCORDANCE WITH DRAWING PACKAGE MA2156, REVISION A, DATED SEPTEMBER 13, 2001, AND INSTALLATION MANUAL MA2157, REVISION B, DATED SEPTEMBER 21, 2007, PER STC#SA00941SE.

INSTRUCTIONS FOR CONTINUED AIRWORTHINESS OF MICRO VORTEX GENERATOR INSTALLATIONS ARE STATED ON VG OPERATING PLACARD #MA8001 WHICH MUST BE INSTALLED IN AN EASILY SEEN LOCATION IN THE COCKPIT. THIS PLACARD STATES: "IF MORE THAN 5 VGS ARE DAMAGED OR MISSING, THE AIRCRAFT IS NOT AIRWORTHY." TO MAKE IT AIRWORTHY, THE MISSING VGS IN EXCESS OF FIVE NEED TO BE REPLACED. THE VGS SHOULD BE EXAMINED PRIOR TO EACH FLIGHT, DURING THE PREFLIGHT INSPECTION, TO DETERMINE IF ANY ARE MISSING OR DAMAGED. MISSING OR DAMAGED VGS IN EXCESS OF FIVE NEED TO BE REPLACED BY THE INSTALLATION OF A NEW (REPLACEMENT) PART. INSTALLATION IS ACCOMPLISHED WITH LOCTITE DEPEND ADHESIVE #330. NO OTHER MAINTENANCE OR INSPECTIONS ARE NECESSARY.

NEGLIGIBLE WEIGHT CHANGE	
END	

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

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

of Tra Feder	epartment insportation ral Aviation nistration		(Airfr	ame,	Powerplant, Pro	opel	ler,	or Ap	oliance)			For FA	AA Use Only	
instru	uctions a		sition of	this for	ntries. See Title 14 C rm. This form is requi									
Nationality and Registration Mark N5083W  1. Aircraft							Serial No. <b>P210000635</b>							
Make Cessna									Model P210N			Series		
Name (As shown on registration certificate) 2. Owner LEON MARTIN							Address (As shown on registration certificate) 14167 MIELKE PLACE HERMOSA, SD 57744-5408							
							3	. For FAA	Use Only					
4. Typ	ре						5	. Unit Ide	entification					•
Repa	air Alte	eration	Ur	nit	Ma	ke			М	odel			Serial No.	
	AIRFRAME			RAME				<b>.</b>	(As described in item 1 above)			*****		,
	POWERPLANT									1.1				
	]	PROPELLER												
	Type  APPLIANCE  Manufacturer													
			L						ity Statement					
		Name an		ss —			B. Kind of Agency U.S. Certificated Mechanic					N	Manufacturer	
100	00 FLY	ING CL	OUD DI	R.		-	Foreign Certificated Mechanic				rtificate No.			
	EN PRA	NRIE, M A	N			-	X Certificated Repair Station  Certificated Maintenance Organization				Q121	R110L		
r	nave bee	n made i	n accord	dance v	eration made to the u with the requirements ect to the best of my k	of P	art 4	3 of the l						to
Extended range fuel Signature/Date of Authoriz per 14 CFR Part 43 App. B					horiz	ed In	158	Tulled Chendel	4	7	Ma	y 31, 2012		
									or Return to Service					
	ninistrato	r of the F	ederal A	Aviation	ons specified below, to Administration and i		nit id	entified i		cted in Rejec		r preso	cribed by the	
вү		A Fit. Sta	andards	N	Manufacturer		Main	laintenance Organization Person Approved by Canadia Department of Transport			by Canadian ansport			
		A Desigr	nee	^	Repair Station		Inspection Authorization Other (Specify)							
	icate or ination N	lo.		S	Signature/Date of Aut	horize	ed In	idividual	•					
a	) 2R110L	-			Kurt Schende	el	0	4	all I			Ma	y 31, 2012	

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.)
CESSNA P210N, SN P210000635, N5083W 05/31/2012
REMOVED: Pilot Horizon KI256
RELOCATED: AIM Electric Horizon to copilot panel
INSTALLED: 5000B-36 Vacuum Horizon in pilot panel as required backup to electronic display. Installed Aspen master switch using circuit breaker switch. Installed Aspen EA100 Autopilot adapter. Interfaced to EFD1000 Pro PFD and KFC200 Autopilot system.
DOCUMENTATION: AC 43.13 1b, chapters 7, 10, 11, 12 Aspen STC #SA10822SC Aspen install manual p/n 900-00003-001 Rev. AB, May 2012
CONTINUED AIRWORTHINESS INSTRUCTIONS: Existing FMS and ICA's for Aspen PFD includes the EA100.
Ground and flight tests confirm normal operation and accuracy meets requirements.
The maximum continuous electrical load does not exceed 80% of the total rated generator capacity.
Weight and Balance updated this date. Maintenance records updated.
\`
Additional Sheets Are Attached

U.S. 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 Number For FAA Use Only

Federal Aviati Administratio									-		
instructions	s and dispos violation (49	ition of the U.S.C.	nis foi \$4630	rm. This report is require 01(a)).	3.9, ed b	P	art 43 Appe law (49 U.S	endix B, and AC 43 5.C. §44701). Fail	1.9-1 (o ure to r	r subsec eport ca	quent revision thereof) for n result in a civil penalty for
1. Aircra	Nationa	lity and Re				Serial No. P21000635					
	Make CESSI	NA				Model P210					Series N
2. Own	<b></b>	As shown IN LEON	-	istration certificate)	Address (As shown on registration Address 14167 MIELKE PL City HERMOSA Zip 57744-5408 Coun				State SD		
<del></del>		, .		3. Fo	or F	·A	A Use Only	/			
							•				
4.	Туре			5. Ur	nit l	de	entification				
Repair	Alteration	Ųı	nit	Make	•			Mode			Serial No.
		AIRFRA	AME				_	(As described in item 1 above)			
		POWE	RPLAN	ıτ							
		PROPE	LLER								
	x	APPLIA	NCE	Type starter adapter				635050A4			WS27669FW
				Manufacturer teledyne continenta	al	i					
				6. Co	onfo		mity Stater				
	y's Name an		SS		$\perp$	_	B. Kind of			<del></del>	
_	Vestern Skyway  1 Creative Place				- _	+	U.S. Certifica				Manufacturer
_	fontrose			State CO	L	+		icated Mechanic			. Certificate No.
_	1401	Country	US		×	+	Certificated R Certificated M	epair Station laintenance Organizat	ion	⊢ "	/S9R575J
hereto	have been	made in	accoi	eration made to the unit( rdance with the requirem rue and correct to the be	ent	ts (	of Part 43 o	f the U.S. Federal			
extended ran		S	ignati	ure/Date of Authorized In	ndiv	idı	ual		Rene' I	Medina	May 20, 2011
				7. Appro	val	fo	r Return T	o Service			
				persons specified below al Aviation Administration						ed in the	e manner prescribed by
ву	FAA Fit. Sta Inspector			Manufacturer				ce Organization		Person	Appoved by Canadian nent of Transport
"   <u> </u>	FAA Desig	nee	x	Repair Station		†	Inspection	Authorization	Other	(Speci	
Certificate of	or Designation I		-	Signature/Date of Auth	oriz	zeo			<u>.l</u>		
WS9R575.I	, I			for flat				Rene' Medina	May	20 201	1

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

B. Description of Work Accomplished		
(If more space is required, attach addition	onal sheets. Identify with aircraft nationality and reg	gistration mark and date work completed.)
•	N5083W	May 20, 2011
	Nationality and Registration Mark	Date
		- 210
		Ama 4
nstallation of S539800M30 starter adapter	r spring in accordance with Aircraft Specialties Inc , 2006, or later FAA approved revision. Starter Ada	per STC SE09846SC and STC
CM Overhaul Manual X30575A and appli	cable Service information.	
	END	
		•
	•	
•		
·	•	

(3)
US Department
of Transportation
Federal Aviation
Administration
of Transportation Federal Aviation

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

Form Approved	Electronic Tracking Number
OMB No. 2120-0020	
11/30/2007	<u> </u>
į	For FAA Use Only

Fed Adr	ransportat leral Aviat ministratio	ion on	,		Powerplant, I								
ins	struction	TIONS: Print s and dispos tion. (49 U.S.	ition o	f this form	ries. See Title 14 n. This report is r	4 CFI equire	R §4 ed b	43.9, Part 43 by law (49 U.S	Appendix B, an S.C. §44701). Fa	d AC 43.9- ilure to repo	1 (or sul ort can re	bsequent revision thereof) for each	
	'a	Nationality		Registrati		214			Serial No.	E			
1. Ai	ircraft	U.S.A.			508	300			P2100063			Series	
1		Make Cessn					P 210N				1	Cerros	
				n on reai	stration certificate	)			Address (As s	hown on re	gistration	certificate)	
Name (As shown on registration certificate)  MARTIN, LEON  Address (As shown on registration certificate)  Address 14167 MIELKE PLACE													
2. O	wner								City HERM			State SD	
						-	2 5	or FAA Use			Сои	nuy	
	····				·		<u>3. F</u>	OF FAA USE	Offig			447-44	
	4. Ty	/pe					5. l	Unit Identifica	ation				
R	epair	Alteration		Unit Make					Model Serial No			Serial No.	
		X	AIRF	RAME	(As described in Item 1 above)								
			POW	ERPLAN	т								
			PRO	PELLER	R								
			APPI	LIANCE	Type Manufacturer								
		<u> </u>	<u> </u>			6	. Co	onformity Sta	tement				
A. A		Name and A	ddress	3				Kind of Agend					
Name		Hersey Bishop Moun	tain R	nad			X		ated Mechanic ficated Mechanic		<del></del>	nufacturer ficate No.	
City	Hill C		tuni iv	ouu	State SD		Н		Repair Station		2460727		
Zip	5774		untry <u>L</u>	JSA			П	Certificated I	Aaintenance Organ	ization			
D.	have l	been made in	accor	dance wi	ation made to the th the requiremen t to the best of my	ts of	Part	t 43 of the U.S	em 5 above and . Federal Aviatio	described n Regulatio	on the re ns and th	verse or attachments hereto nat the information	
		inge fuel		Sig	nature/Date of Au	ithoriz	ed	Individual	1/-	1			
per App		Part 43						IZt.l.lanaan	$\mathcal{X}$	unch	C		
Whh	. 0			Ju	ine 10, 2009			Kent Hersey		ملا) س	همگ		
Pu An	ırsuant İministra	to the authoritor of the Fed	ority g	iven per		elow		val for Returr e unit identif		vas inspec	ted in the	ne manner prescribed by the	
	F	AA Fit. Stand		T	anufacturer		Ma	aintenance Or			ons Approv	ved by Canadian Transport	
BY		AA Designee	······································	Re	pair Station	x	In	spection Auth	orization	Other (Sp.	ecify)		
	ificate or gnation			Sig	nature/Date of Au	thoriz	zed	Individual	V0	, 1			
	- 24607	27		_	ne 10, 2000			Kent Herse	, <i>l/<sub>a</sub></i> ()	rela	ميا		

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 nation	nality and registration mark and date	work completed.)	
	U.S.A. 5083W	06/10/2009	
	Nationality and Registration Mark	Date	
Removed factory installed engine instrument clust	· -	meter. Oil pressure	<u> </u>
Cylinder head temp, Oil temp, along with dual mar	•	•	,
factory installed vacuum system gauge. Removed	•	_	V
installed under S.T.C. SA157NE and its fight man			,
Displays, Inc. CFS-1001 computerized fuel flow in	* *		
SA3835WE and its associated flight manual supp			<u></u>
model P-1000 engine tachometer previously instal		•	Ο.
associated flight manual supplement.			
associated hight mandal supplement.			
Installed XERION AVIONICS, LLC. Digital Engine	Monitoring system in	accordance with	
Xerion, AuRACLE II 6-cyl Installation Manual XA-I	• •		
6/19/2008 of S.T.C. SA02434NY. Installed flight n	_		8(
along with a copy of Xerion, AuRACLE Engine Ma			
dated 3/5/08. Instructions for continued airworthin	• •	•	•
aircraft paperwork (Log Books). System is approv	ed as PRIMARY engir	ne instrumentation,	
including instrument vacuum.			
END			
Additional Sheets	: Are Attached		

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

aL-27

and o	disposition	of this form. This	s repo	ries, See FAR 43.9 rt is required by lavederal Aviation Act	v (49 l	U.S.C								
1 /	Aircraft	Make Cessna						Model P 210N						
1. 7	(IICIAI)	Serial No. P21000	0635						Nationality U.	y and Reg S.A.	istration M	lark	N5083W	
2. 0	Owner	Name (As sh MARTIN, LE		n registration certii	icate)	ı			Address (As shown on registration certificate) HCR83 BOX 9B HERMOSA, SD 57744					
				3. Foi	FAA	Use	Or	nly			- <u>:</u>			
		I		4. Uni	t Ider	ntific	atio	on ·		1			5. <b>Type</b>	T
U	nit		Mak	•				Model			Serial No		Repair	Alteration
AIRF	RAME	~~~~~ (As described in Item 1 above) ~~~~~						. ~ ~ ~ ~	· •••					
POW	/ERPLANT	Teledyne Continental TSIO-5				-520-P(6) 278927-R			7-R			X		
PRO	PELLER													
APPL	_IANCE	Туре												
	<u> </u>	Manufacturer												
								onformity State	ement	<del></del>	·			
		me and Address				-	B. Rilla of Agency				C. Certif	. Certificate No.		
370	eph Izzil 2 Winne oid City	lo ers Circle SD 57702				_	X U.S. Certificated Mechanic  Foreign Certificated Mechanic  Certificated Repair Station				049	049584389		
	,,					-	Manufacturer				1			
h	ave been m	nade in accordance	ce with	tion made to the un n the requirements to the best of my k	of Par	rt 43	of t	in item 4 above the U.S. Federa	and descri Aviation R	ibed on the equiations	e reverse of and that	or attachm	ents hereto ation	
Date		1/2004					•	eture of Authoriz	ed Individu	al /				
					7.			val For Return	To Servic	e	<del> </del>			
				ons specified below Administration and	, the ı				vas inspect			escribed by	y the	
<b>6</b>	1 1	Fit Standards pector		Manufacturer	x	In	spe	ection Authoriza	tion	Other	(Specify	<i>'</i> )	1.5	
BY	FA	A Designee		Repair Station				on Approved by ada Airworthines	•					
Date of Approval or Rejection 5/21/2004  Certificate or Designation No. 049584389  Certificate or Designation No. 049584389  Joseph Izzillo														

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.

N5083W 5/21/04. Installed modified fur S.T.C. SE09289SC. Installation per Gr nozzles P/N 632748 - 14C and installed 12728 STC No. SE 092899SC PMA No.	ts. Identify with aircraft nationality and registration mark and date work completed.) The injector nozzles in accordance with General Aviation Modifications, Inc. The injector nozzles in accordance with General Aviation Modifications, Inc. The injector No IP-97-002 dated 2/6/1997. Removed six (6) TCM fuelty of General Aviation Modifications, Inc. turboGAMIjectors Kit No. GT 14C S/No. PQ821SW per turboGAMIjector Installation Procedure No. IP-97-002 (revolution of the injector in weight and balance No required continued airworthiness. GAMI does intervals of 100-200 hours. END.
•	
±	•
: 	
, s. ye	antenia de la composición de la compos La composición de la
	<b>`</b>
1	Additional Sheets are Attached

#### United States Of America

### Department of Transportation - Jederal Abiation Administration

## Supplemental Type Certificate

Number SE09289SC

This Certificate issued to

General Aviation Modifications, Inc. 2800 Airport Road, Hangar A Ada Municipal Airport Ada OK 74820

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

Original Product Type Certificate Number:

[see attached FAA Approved Model List (AML) for list of

Make:

approved models and applicable airworthiness regulations]

Model:

Description of Typo Design Charga: Installation of modified fuel injector nozzles in accordance with General Aviation Modifications, Inc. "Data List", Revision 002, dated February 13, 1997, and Installation Procedure No. IP-97-002, "TurboGAMIjector Installation Procedure", Revision 002, dated February 6, 1997, or later FAA approved revisions.

Limitations and Conditions. Compatibility of this design change with previously approved modifications must be determined by the installer. This STC only applies to Teledyne Continental Motors (TCM) engine models listed on the FAA approved model list on the attached continuation sheet.

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

Dale of application: September 20, 1996

Dale of issuance : February 06, 1997

Dalo reissued :

Dato amondod: April 8, 1997, Rev. 1

By direction of the Administrator

(Signature)

A. J. Merrill

Manager, Special Certification Office

Southwest Region

(Title)



### FAA APPROVED MODEL LIST (AML)

STC No. SE09289SC

Date of issuance: February 06, 1997

Date amended: April 8, 1997

General Aviation Modifications, Inc.

2800 Airport Road, Hangar A Ada Municipal Airport

Ada, OK 74820

Item	Aircraft Make	Aircraft Model	Original Type Certificate Number	Regulation /Part
1	Teledyne Continental Motors	TSIO-520-A, -B, -BB, -C, -D, -DB, -E, -EB, -G, -H, - J, -JB, -K, -KB, -L, -LB, - N, -NB, -M, -P, -R, -T, -U, -UB, -AE, -AF, -VB, -WB, & -CE	E8CE	CAR 13
2	Teledyne Continental Motors	IO-520-B, -BA, -BB (with STC SE5222NM)	E5CE	CAR 13
3	Teledyne Continental Motors	IO-550-B (with STC SE5222NM)	E3SO	FAR 33
4	Teledyne Continental Motors	IO-520-D (with STC SE00215DE)	E5CE	CAR 13

FAA Approved:

Date: April 8, 1997

Pursuant to Title 49 United States Code § 44704 (b) (3) (effective October 19, 1996) the signature below constitutes the agreement and permission of General Aviation Modifications, Inc., allowing the registered owner of N\_5083W, to alter that certain Teledyne Continental Motors Engine:

Model 7570-520- P., SN 278 92 7 and NA , and ONLY that serial number (or numbers), by application of STC No. SE09289SC, to that specific engine(s), for the purpose of installing the fuel injector nozzles which are the subject of that STC.

General Aviation Modifications, Inc.

By Tim Roehl, President Or George W. Braly, CEO

[SEAL]

5-5-04

Date

## 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

and disposition of	S: Print or type all entries, See FAR 43.9, Fact this form. This report is required by law (4 colation (Section 901 Federal Aviation Act of 1	19 U.S.C. 1421). Failure	AC 43.9-1 ( or sub: to report can resul	sequent revision th t in a civil penalty r	nereof) for instruction not to exceed \$1,000.	s 00			
	Make Cessna		Model P 210N						
1. Aircraft	Serial No. P21000635		Nationality and U.S.A.	Registration Mark	N5083W				
2. Owner	Name (As shown on registration certifical MARTIN, LEON	nte)	Address (As shown on registration certificate) HCR83 BOX 9B HERMOSA, SD 57744						
	3. For Fa	AA Use Only							
	4. Unit k	dentification			5. <b>Type</b>				
Unit	Make	Model		Serial No.	Repair	Alteration			
AIRFRAME	~~~~~~ (A	s described in Item 1 abo	ove) ~~~~~	. ~ ~ ~		Х			
POWERPLANT									
PROPELLER									
APPLIANCE	Туре								
AFFLIMINGE	Manufacturer								
		6. Conformity Sta			Cortificate Na				
	ame and Address	B. Kind of Agenc	·	C.	Certificate No.	<u></u>			
Joseph Izzil 3702 Winne Rapid City,	ers Circle	Foreign Certi	ated Mechanic ficated Mechanic Repair Station		049584389				
have been m	the repair and/or alteration made to the unit(s nade in accordance with the requirements of erein is true and correct to the best of my kno	s) identified in item 4 abo Part 43 of the U.S. Fede	ve and described o	on the reverse or at attitions and that the	ttachments hereto information				
Date	21/2004	Signature of Author	rized Individual	K					
		7. Approval For Retu							
Pursuant to t Administrator	he authority given persons specified below, t r of the Federal Aviation Administration and is	the unit identified in item of X		the manner prescr ECTED	ribed by the				
	A Fit Standards Manufacturer	x Inspection Authori	zation	Other (Specify)					

Inspection Authorization

Joseph Izzillo

Person Approved by Transport

Signature of Authorized Individual

Canada Airworthiness Group

Manufacturer

Repair Station

Certificate or Designation No.

049584389

Inspector

Date of Approval or Rejection 5/21/2004

FAA Designee

ВΥ

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.

	I continued airworthin	iess need	s addressed	1 III 3. (.C. E	IND.		
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### Department of Transportation—Federal Aviation Administration

## Supplemental Type Certificate

Number SA5821NM

This certificate, issued to Horizon Instruments, Inc. 556 S. State College Blvd. Fullerton, California, 92631

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

therefor as specified hereon meets the airworthiness requirements of Part 23 of the Federal Air

Regulations Including FAR 23 Amendment 23-41

Original Product - Type Certificate Number: 3A21

Make: Cessna

Model 210, 210A, 210B, 210C, 210D, 210E, 210F, T210F, 210G, T210G, 210H, T210H, 210J, T210J, 210K, (See Continuation Sheet)

Description of Type Design Change Installation of an Electronic Digital Engine

Tachometer, Horizon Model P-1000, P/N P100054- (Applicability table on continuation sheet) in Cessna Model 210 aircraft, in accordance with Horizon Master Drawing List No. P100054 Rev. N/C, Dated March 12, 1992, and/or later FAA approved revision.

Horizon Airplane Flight Manual Supplement No 1, dated August 12, 1992, or later approved revision is required.

Limitations and Conditions: The approval of this change in type design applies basically to the above listed airplane models only. This approval should not be extended to other specific airplanes of these models on which other previously approved modifications are incorporated unless it is determined by the installer that the interrelationship between this change and any of those previously approved modifications will introduce no adverse effect upon the airworthiness of the above listed airplanes

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

Date of application April 8, 1991

Jule ressued :

Dale of issuance:

August 28, 1992

Tale umended; J 1 1 3 1993

(Signature) Manader, Propulsion Branch

Los Angeles Aircraft Certification Office

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

This certificate may be transferred in accordance with FAR 21.47.

#### United States of America

Department of Transportation—Federal Aviation Administration

# Supplemental Type Certificate

(Continuation Sheet)

Number SA5821NM

Models (Continued): T210K, 210L, T210L, 210M, T210M, 210N, T210N, 210R, T210R, P210N, P210R, 210-5, & 210-5A

		Applicability Table	
<u>Aircraft Mode</u>	<u>el</u>	Serial Numbers	Tachometer Part Number
210		ALL	P100054-160-00
210A		ALL	P100054-160-00
210B	•	ALL	P100054-160-03
210C		ALL	P100054-160-03
210D	•	ALL	P100054-142-03
. 210E		ALL	P100054-142-03
210F		ALL	P100054-142-03
T210F	•	ALL	P100054-142-03
210G		ALL	P100054-142-03
T210G		ALL	P100054-142-03
210H		ALL	P100054-142-03
T210H		ALL	P100054-142-03
210J		ALL	P100054-142-03
T210J		ALL	P100054-142-03
210K	•	ALL	P100054-141-03
T210K		ALL	P100054-142-03
210L		ALL	P100054-141-03
· T210L		ALL	P100054-142-03
210M		ALL	P100054-141-03
T210M_	August victor of the second	a. ALL	P100054-162-03
210N		ALL	P100054-141-03
T210N	•	ALL	P100054-162-03
210R		ALL	P100054-141-03
T210R		ALL	P100054-161-03
P210N		ALL	P100054-162-03 or
		,	P100054-163-03
P210R		ALL .	P100054-161-03
		- · <del></del>	, 2000, 101 05
210-5		ALL	P100054-160-03
210-5A		ALL	P100054-160-03
			, 100001 100 05

--END--

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

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

GL-27

INSTRUCTIONS: Print or type all entries, See FAR 43.9, FAR 43 Appendix B, and AC 43.9-1 (or subsequent revision thereof) for instructions and disposition of this form. This report is required by law (49 U.S.C. 1421). Failure to report can result in a civil penalty not to exceed \$1,000.00 for each such violation (Section 901 Federal Aviation Act of 1958).

ioi each such V	noiation (Geotion 90)	Federal Aviation Ad	CL OI 10	JU).							
Make Cessna							210N	-	eration of the second of the s		
1. Aircraft	Serial No. P2100063			Nationality and Registration M U.S.A.					N5083W		
2. Owner	Name (As shown MARTIN, LEON	on registration certi	ificate)			1081 W	(As shown on regi OODRIDGE DF CITY, SD 57701	₹.	ertificate)		
		3. For	r FAA U	se O	nly						
				· ·				~			
		4 Hn	it Identi	ficati	ion				5. <b>Type</b>		
Unit	Mal				Model		Serial No		Repair	Alteration	
AIRFRAME	~	.~~~~ (	'As des	cribe	d in Item 1 abo	ove) ~~~	~~~~			X	
POWERPLANT	Γ .										
PROPELLER											
APPLIANCE	Type , Manufacturer	,							:	:	
					onformity Sta				Toots 61		
	lame and Address			1	Kind of Agenc			C. Certif	icate No.		
Kent Herse	NAt Dood	مد میں درستان		-X-	U.S. Certifica			- 2460	0727		
658 Bishop Hill City, SD	) 57745				Foreign Certificated Foreign Manufacturer	Repair Station					
have been	it the repair and/or alt made in accordance perein is true and corr	with the requiremer	nts of Pa	art 43	tified in item 4	above and d	described on the revion Regulations and	verse or at that the in	tachments he nformation	ereto	
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FA	AA Designee	Repair Station		Car	rson Approved nada Airworthir	ness Group					
	val or Rejection 14/2002	Certificate or Designation No. 2460727			nature of Authorn		m Olita	<u>~</u>			

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

8. Description of Work Accomplished (If more space is required, attach additional sheets. Identify with aircraft nationality and registration mark and date work completed.) 8/13/02 N5083W. Removed factory installed 7 amp/24volt stand-by generator system. Installed B&C Specialty Products, Inc BC425-1 20 amp/24volt Standby Alternator system per S.T.C. SA00846WI. Document followed for installation was Master Drawing List 425ST1.DOC, Revision C, dated 03/14/99. Installed FAA Approved Flight Manual Supplement Rev. 0 dated 12/23/99. Continued airworthiness is addressed in B & C document ICA-BC410.doc,9/99 for the alternator and document ICA_BC203-2D.wpd,2/01 for the standby alternator controler attached to the aircraft records. END.
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Additional Sheets are Attached

O Re

United States of America

Bepartment of Transportation -- Federal Abiation Administration

## Supplemental Type Certificate

Number SA00846WI

This certificate issued to

B & C Specialty Products, Inc. 123 E. 4th Street Newton, KS 67114-0894

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 Poegulations.

Original Product - Typo Certificate Number: 3A21

Make: Cessna

Moodel: 210L, 210M, 210N, P210N, T210L, T210M, T210N

Description of Type Design Change. Installation of B&C Specialty Products BC425-1 Standby Alternator. Data Required: (1) B&C Specialty Products, Inc. Master Drawing list No. 425LST1.DOC, Revision B, dated December 17, 1999; (2) B&C Specialty Products Document No. FMS425-1, FAA Approved Airplane Flight Manual Supplement, dated December 23, 1999; or later FAA Approved Revisions to (1) or (2).

Limitations and Conditions. Compatibility of this design change with previously approved modifications must be determined by the installer.

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

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

Date of application . December 10, 1998

Date of issuance . December 23, 1999

Dato roissued :

Date amended:

By direction of the Administrator

(Signature)

Joel M. Ligon Program Manager

Wichita Aircrast Certification Office

(Title)

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U.S. Department of Transportation Federal Aviation

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

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

Office Identification USS

Administration

INSTRUCTIONS: Print or type all entries, See FAR 43.9, FAR 43 Appendix B, and AC 43.9-1 (or subsequent revision thereof) for instructions and disposition of this form. This report is required by law (49 U.S.C. 1421). Failure to report can result in a civil penalty not to exceed \$1,000.00 for each such yiolation (Section 901 Federal Aviation Act of 1958).

and disposi for each su	tion of this form. This re ch violation (Section 901	Federal Aviation Act of	f 195	58).	-	•						
	l Make				_		Model					
	Cessna	Cessna					P 210N					
1. Aircraft	Serial No.				Nationality and Registration Mark			ark	rk NEOCONA/			
	P210006	P21000635						S.A.		N5083W		
2. Owner	MARTIN, LEC	Name (As shown on registration certificate) MARTIN, LEON				Address (As shown on registration certificate) 1081 WOODRIDGE DR. RAPID CITY, SD 57701						
		3. For	FAA	Use	On	ıly						
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		4. 011	it iuc	1101100	4			Serial No.		Repair	Alteration	
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	Manufacturer											
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4571 W	entworth Dr.			_	Foreign Certificated Mechanic  Certificated Repair Station				1			
Rapid C	city, SD 57702			-	Manufacturer							
D. Loorlife	y that the repair and/or a	Iteration made to the u	nit(s)	identii	fied	in item 4 abov	e and desc	ribed on the reverse	or attachm	ents hereto		
have b	een made in accordance	e with the requirements	of Pa	art 43	of	the U.S. Feder	al Aviation F	Requlations and that	the informa	ation		
furnish	ned herein is true and co	rrect to the best of my	knowi	ledge.								
Date				Si	ign	ature of Author	ized Individ	$\frac{\text{ual}}{2} 10$				
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BY	FAA Designee	Repair Station				son Approved b nada Airworthin		t				
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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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B. Description of Work Accomplished (If more space is required, attach additional sheets. Identify with aircraft nationality and registration mark and date work completed.)  N5083W. Removed six (6) TCM fuel nozzles P/N 632748 - 14C and installed General Aviation Modifications, Inc. turboGAMIjectors Kit No. GT14C S/N 8440. STC No. SE09289SC, PMA No. PQ821SW, per turboGAMIjector Installation Procedure No. IP-97-002 (rev 002) dated February 6, 1997. No change in weight and balance. Continued airworthiness is not mentioned other than maintenance of recommended injector cleaning of nozzles at normal intervals of 100 to 200hrs. END.
Additional Sheets are Attached

#### United States Of America

### Department of Transportation - Federal Abiation Administration

## Supplemental Type Certificate

Number SE09289SC

This Certificate issued to

General Aviation Modifications, Inc. 2800 Airport Road, Hangar A Ada Municipal Airport Ada, OK 74820

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

Original Product Type Certificate Number:

[see attached FAA Approved Model List (AML) for list of

Make:

approved models and applicable airworthiness regulations]

Model:

Description of Typo Design Change: Installation of modified fuel injector nozzles in accordance with General Aviation Modifications, Inc. "Data List", Revision 002, dated February 13, 1997, and Installation Procedure No. IP-97-002, "TurboGAMIjector Installation Procedure", Revision 002, dated February 6, 1997, or later FAA approved revisions.

Bimitations and Conditions. Compatibility of this design change with previously approved modifications must be determined by the installer. This STC only applies to Teledyne Continental Motors (TCM) engine models listed on the FAA approved model list on the attached continuation sheet.

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 : September 20, 1996

Date of issuance . February 06, 1997

Date reissued :

Date amended: April 8, 1997, Rev. 1

By direction of the Administrator

(Signature)

A T Morrill

Manager, Special Certification Office

Southwest Region

(Title)



#### FAA APPROVED MODEL LIST (AML)

STC No. SE09289SC

Date of issuance: February 06, 1997

Date amended: April 8, 1997

General Aviation Modifications, Inc.

2800 Airport Road, Hangar A

Ada Municipal Airport

Ada, OK 74820

Item	Aircraft	Aircraft Model	Original	Regulation
	Make		Туре	/Part
			Certificate	İ
ļ			Number	
1	Teledyne Continental Motors	TSIO-520-A, -B, -BB, -C,	E8CE	CAR 13
٠		-D, -DB, -E, -EB, -G, -H, -		محيشي سومند
	and the second s	J, -JB, -K, -KB, -L, -LB, -	•	
		N, -NB, -M, -P, -R, -T, -U,		
İ		-UB, -AE, -AF, -VB, -WB,		
İ		&-CE		
2	Teledyne Continental Motors	IO-520-B, -BA, -BB	E5CE	CAR 13
1		(with STC SE5222NM)		
3	Teledyne Continental Motors	IO-550-B	E3SO	FAR 33
İ		(with STC SE5222NM)		
4	Teledyne Continental Motors	IO-520-D	E5CE	CAR 13
		(with STC SE00215DE)		1

FAA Approved:

Date: April 8, 1997

Pursuant to Title 49 United States Code § 44704 (b) (3) (effective October 19, 1996) the signature below
constitutes the agreement and permission of General Aviation Modifications, Inc., allowing the registered
constitutes the agreement and permission of General Aviation Modifications, Inc., allowing the registered owner of N 5083 , to alter that certain Teledyne Continental Motors Engine:

Model 7510-520 , SN<sub>0</sub>278770-R and MA , and ONLY that serial number (or numbers), by application of STC No. SE09289SC, to that specific engine(s), for the purpose of installing the fuel injector nozzles which are the subject of that STC.

General Aviation Modifications, Inc.

By Tim Roehl, President

Or George W. Braly, CEO

[SEAL]

2-23-6

Date

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

FUI FAA USE

Office Identification
GL27 RAP ISDO WY

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 s	uch violation (Se	ction	n 901 Federal Aviat	tion Ac	ct of 1	958).						
- Al-		Make Ces	Make Cessna					Model P210N					
1. Air	crait	Serial No. P21	Serial No. P21000635					Nationality and Registration Mark USA N5083W					
2. Ov	vner	Name (As shown on registration certificate Martin, Leon E				e)	Address (As shown on registration ca 1081 Woodridge Drive Rapid City, SD 57701						
						3. I	For FAA Use O	nly					
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Date 02/28/01					Signature of Authorized Individual  Tony Fremo								
							al for Return To						
Pur Adn	ninistra	ator of the Federa	giver al Av	n persons specifie iation Administrati	d belo	ow, the	e unit identified X APPROVE	in item 4	4 was inspected in EJECTED	the man	ner prescribe	ed by the	
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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.

2/28/01 N5083W
IFR APPROVAL
System: This installation is a follow-on IFR GPS/VOR/ILS/Comm system reference STC SA00705WI which had previously been installed as a VFR system on FAA approved 337 dated February 28, 2001.
Unit: The Garmin GNS 430 unit sn 97102832 was installed in accordance with the Garmin installation manual listed below. The unit was installed in the center radio stack.
Operational Flight and Ground checks: The Garmin Post installation checkout procedures (section 5) of the Garmin GNS430 installation manual were satisfactorily completed. The system operated in accordance with manufacturer's specifications and did not interfere with the normal operation of the other equipment installed nor does the entire system cause a current draw exceeding 80% of the rated alternator output. 8c(2)(i) Found the GNS430 system to meet all the requirements for installation in this aircraft. 8c(2)(iii) A flight evaluation was conducted and the installation was found to be acceptable. 8c(2)(iv) A functional flight was performed. All functions of the GPS systems interface, controls, and system operations were checked and found to be correct. The placard stating "GPS limited to VFR use only" was removed and replaced with a placard stating "GPS approved for IFR enroute, terminal and non-precision approach operations".
Documents provided: GNS430 pilots guide P/N 190-00140-00 GNS430 quick reference guide P/N 190-00140-01  FAA Approved Flight Manual Supplement Dated MAR 0 1 2001 Original Issue
END

☐ Additional Sheets Are Attached

Installation Center

**GARMIN GNS 430 VHF Communications** Transceiver / VOR/ILS Receiver / GPS Receiver

Repair Station #

CRS DDND793K

Name:

**Business Aviation Avionics** 

Address:

3900 Airport Road

Rapid City, SD 57703

### FAA APPROVED FLIGHT MANUAL SUPPLEMENT GARMIN GNS 430 VHF COMMUNICATIONS TRANSCEIVER / **VOR/ILS RECEIVER / GPS RECEIVER**

AIRCRAFT MAKE: Cessna

AIRCRAFT MODEL: P210N

AIRCRAFT SERIAL NO.: P21000635

This document must be carried in the aircraft at all times. It describes the operating procedures for the GARMIN GNS 430 navigation system when it has been installed in accordance with GARMIN Installation Manual 190-00140-02 Rev. D (Rev. A or later) and FAA Form 337 dated 2/28/01.

For aircraft with a FAA Approved Airplane Flight Manual, this document serves as the FAA Approved Flight Manual Supplement for the GARMIN GNS 430. For aircraft that do not have an approved flight manual, this document serves as the FAA Approved Supplemental Flight Manual for the GARMIN GNC 430.

The Information contained herein supplements or supersedes the basic Airplane Flight Manual only in those areas listed herein. For limitations, procedures, and performance information not contained in this document, consult the basic Airplane Flight Manual.

FAA APPROVED

Date: MAR 0 1 2001

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Aircraft Make: Cessna Aircraft Model: P210N

Aircraft Serial Number: P21000635

### GARMIN GNS 430 VHF Communications Transceiver / VOR/ILS Receiver / GPSReceiver

#### Table of Contents

SECTIONP	AGE
GENERAL	3
LIMITATIONS	
EMERGENCY PROCEDURES	5
NORMAL PROCEDURES	6
PERFORMANCE	7
WEIGHT AND BALANCE	7
AIRPLANE & SYSTEM DESCRIPTIONS	7

PAGE 2 OF 7 MAR 0 1 2001

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Aircraft Make: Cessna Aircraft Model: P210N

Aircraft Serial Number: P21000635

GARMIN GNS 430 VHF Communications Transceiver / VOR/ILS Receiver / GPS Receiver

#### SECTION I GENERAL

- 1. The GNS 430 System is a fully integrated, panel mounted instrument, which contains a VHF Communications Transceiver, a VOR/ILS receiver, and a Global Positioning System (GPS) Navigation computer. The system consists of a GPS antenna, GPS Receiver, VHF VOR/LOC/GS antenna, VOR/ILS receiver, VHF COMM antenna and a VHF Communications Transceiver. The primary function of the VHF Communication portion of the equipment is to facilitate communication with Air Traffic Control. The primary function of the VOR/ILS Receiver portion of the equipment is to receive and demodulate VOR, Localizer, and Glide Slope signals. The primary function of the GPS portion of the system is to acquire signals from the GPS system satellites, recover orbital data, make range and Doppler measurements, and process this information in real-time to obtain the user's position, velocity, and time.
- 2. Provided the GARMIN GNS 430's GPS receiver is receiving adequate usable signals, it has been demonstrated capable of and has been shown to meet the accuracy specifications for:
  - VFR/IFR enroute, terminal, and non-precision instrument approach (GPS, Loran-C, VOR, VOR-DME, TACAN, NDB, NDB-DME, RNAV) operation within the U.S. National Airspace System in accordance with AC 20-138.
  - North Atlantic Minimum Navigation Performance Specification (MNPS)
     Airspace in accordance with AC 91-49 and AC 120-33.

Navigation is accomplished using the WGS-84 (NAD-83) coordinate reference datum. Navigation data is based upon use of only the Global Positioning System (GPS) operated by the United States of America.

#### SECTION II LIMITATIONS

1. The GARMIN GNS 430 Pilot's Guide, P/N 190-00140-00, Rev. A, dated October, 1998, or later appropriate revision, must be immediately available to the flight crew whenever navigation is predicated on the use of the system.

PAGE 3 OF 7 MAR 0 1 2001

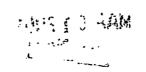
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Aircraft Serial Number: P21000635

2. The GNS 430 must utilize the following or later FAA approved software versions:

Sub-System	Software Version
Main	2.00
GPS	2.00
COMM	1.22
VOR/LOC	1.25
G/S	2.00

The Main software version is displayed on the GNS 430 self test page immediately after turnon for 5 seconds. The remaining system software versions can be verified on the AUX group sub-page 2, "SOFTWARE/DATABASE VER".

- 3. IFR enroute and terminal navigation predicated upon the GNS 430's GPS Receiver is prohibited unless the pilot verifies the currency of the data base or verifies each selected waypoint for accuracy by reference to current approved data.
- 4. Instrument approach navigation predicated upon the GNS 430's GPS Receiver must be accomplished in accordance with approved instrument approach procedures that are retrieved from the GPS equipment data base. The GPS equipment database must incorporate the current update cycle.
  - (a) Instrument approaches utilizing the GPS receiver must be conducted in the approach mode and Receiver Autonomous Integrity Monitoring (RAIM) must be available at the Final Approach Fix.
  - (b) Accomplishment of ILS, LOC, LOC-BC, LDA, SDF, MLS or any other type of approach not approved for GPS overlay with the GNS 430's GPS receiver is not authorized.
  - (c) Use of the GNS 430 VOR/ILS receiver to fly approaches not approved for GPS require VOR/ILS navigation data to be present on the external indicator.
  - (d) When an alternate airport is required by the applicable operating rules, it must be served by an approach based on other than GPS or Loran-C navigation, the aircraft must have the operational equipment capable of using that navigation aid, and the required navigation aid must be operational.

MAR 0 1 2001 RAP FSDO .

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Aircraft Make: Cessna Aircraft Model: P210N Aircraft Serial Number: P21000635

# GARMIN GNS 430 VHF Communications Transceiver / VOR/ILS Receiver / GPS Receiver

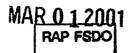
- (e) VNAV information may be utilized for advisory information only. Use of VNAV information for Instrument Approach Procedures does not guarantee Step-Down Fix altitude protection, or arrival at approach minimums in normal position to land.
- 5. If not previously defined, the following default settings must be made in the "SETUP 1" menu of the GNS 430 prior to operation (refer to Pilot's Guide for procedure if necessary):
  - (a) dis, spd .......  $m^{1}$  kt (sets navigation units to "nautical miles" and "knots")
  - (b) alt, vs ............ft fpm (sets altitude units to "feet" and "feet per minute")
  - (c) map datum .. WGS 84 (sets map datum to WGS-84, see note below)
  - (d) posn ......deg-min (sets navigation grid units to decimal minutes)

NOTE: In some areas outside the United States, datums other than WGS-84 or NAD-83 may be used. If the GNS 430 is authorized for use by the appropriate Airworthiness authority, the required geodetic datum must be set in the GNS 430 prior to its use for navigation.

# SECTION III EMERGENCY PROCEDURES

#### **ABNORMAL PROCEDURES**

- 1. If GARMIN GNS 430 navigation information is not available or invalid, utilize remaining operational navigation equipment as required.
- 2. If "RAIM POSITION WARNING" message is displayed the system will flag and no longer provide GPS based navigational guidance. The crew should revert to the GNS 430 VOR/ILS receiver or an alternate means of navigation other than the GNS 430's GPS Receiver.
- 3. If "RAIM IS NOT AVAILABLE" message is displayed in the enroute, terminal, or initial approach phase of flight, continue to navigate using the GPS equipment or revert to an alternate means of navigation other than the GNS 430's GPS receiver appropriate to the route and phase of flight. When continuing to use GPS navigation, position must be verified every 15 minutes using the GNS 430's VOR/ILS receiver or another IFR-approved navigation system.



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Aircraft Make: Cessna Aircraft Model: P210N Aircraft Serial Number: P21000635

## GARMIN GNS 430 VHF Communications Transceiver / VOR/ILS Receiver / GPS Receiver

- 4. If "RAIM IS NOT AVAILABLE" message is displayed while on the final approach segment, GPS based navigation will continue for up to 5 minutes with approach CDI sensitivity (0.3 nautical mile). After 5 minutes the system will flag and no longer provide course guidance with approach sensitivity. Missed approach course guidance may still be available with 1 nautical mile CDI sensitivity by executing the missed approach.
- 5. In an in-flight emergency, depressing and holding the Comm transfer button for 2 seconds will select the emergency frequency of 121.500 Mhz into the "Active" frequency window.

#### SECTION IV NORMAL PROCEDURES

## 1. <u>DETAILED OPERATING PROCEDURES</u>

Normal operating procedures are described in the GARMIN GNS 430 Pilot's Guide, P/N 190-00140-00, Rev. A, dated October, 1998, or later appropriate revision.

#### 2. PILOT'S DISPLAY

The GNS 430 System data will appear on the Pilot's HSI. The source of data is either GPS or VLOC as annunciated on the display above the CDI key.

## 3. AUTOPILOT / FLIGHT DIRECTOR OPERATION

Coupling of the GNS 430 System steering information to the autopilot/flight director can be accomplished by engaging the autopilot/flight director in the NAV or APR mode.

When the autopilot/flight director system is using course information supplied by the GNS 430 System and the course pointer is not automatically driven to the desired track, the course pointer on the HSI must be manually set to the desired track (DTK) indicated by the GNS 430. For detailed autopilot/flight director operational instructions, refer to the FAA Approved Flight Manual Supplement for the autopilot/flight director.



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Aircraft Make: Cessna Aircraft Model: P210N Aircraft Serial Number: P21000635

GARMIN GNS 430 VHF Communications Transceiver / VOR/ILS Receiver / GPS Receiver

### SECTION V PERFORMANCE

No change.

#### SECTION VI WEIGHT AND BALANCE

See current weight and balance data.

# SECTION VII AIRPLANE & SYSTEM DESCRIPTIONS

See GNS 430 Pilot's Guide for a complete description of the GNS 430 system.

PAGE 7 OF 7 MAR 0 1 2001

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

Form Approved
OMB No. 2120-0020

For FAA Use Only
Office Identification
CA7 KAFSDO MA

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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ι	Jnit		Ma	ıke		Ü	Model		Serial No		Repair	Alteration
AIRFR	AME	•	••••	(	As de	scribe	d in Item 1 abo	ve)	***************************************			х
POWE	RPLANT											
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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.)

2/28/01 N5083W

VFR APPROVAL

System: This installation is a follow-on VFR GPS/VOR/ILS/Comm system reference STC SA00705WI.

Removed: The Bendix/King KY-196 comm and Bendix/King KNS-81 RNAV were removed from the center radio stack. The Bendix/King KT-96 flight phone was removed from the radio stack above the glove box.

Unit: The Garmin GNS 430 unit was installed in accordance with the Garmin installation manual listed below. The unit was installed in the center radio stack and coupled to the HSI and autopilot.

Antenna: A Garmin GA56 GPS antenna was mounted to the top centerline. The antenna was installed in accordance with the Garmin installation manual listed below. The existing com and nav antennas were used.

Wiring: All systems were wired to the Avionics Master electrical buss through the manufacturers recommended circuit breakers.

Operational Flight and Ground checks: The Garmin Post installation checkout procedures (section 5) of the Garmin GNS430 installation manual were satisfactorily completed. The systems operated in accordance with manufacturers specifications and did not interfere with the normal operation of the other equipment installed nor does the entire system cause a current draw exceeding 80% of the rated alternator output. It has been determined that the interrelationship between this change and any of those other previously approved modifications will introduce no adverse affect upon the airworthiness of this airplane.

Placards: A placard was mounted in plain view of the pilot which states "GPS limited to VFR use only".

Documents and references:

GNS430 installation manual P/N 190-00140-02 Rev E dated June 1999

GNS430 pilots guide P/N 190-00140-00 GNS430 quick reference guide P/N 190-00140-01

AC43.13-1B chapter 7 section 2 para 7-14,7-16,7-17, section 4 para 7-63,7-64,7-68, section 5 para 7-85,7-86,7-87, section 7 para 7-122,7-123,7-124,7-125, chapter 11 section 3 para 11-30,11-31,11-32,11-33,11-3511-36,11-37,11-38, section 4 para 11-47,11-48,11-49,11-50,11-52,11-53,11-55, section 5 para 11-66,11-67,11-68,11-69, section 6 para 11-76,11-77,11-78, section 7 para 11-85, 11-86,11-87,11-89, section 8 para 11-96,11-97,11-98,11-100,11-104,11-105,11-106,11-107, section 9 para 11-115,11-116,11-117,11-118,11-119,11-120,11-121,11-123,11-124,11-125,11-126, section 10 para 11-135,11-136,11-137,11-138,11-139, section 11 para 11-146,11-147, section 12 para 11-155,11-156,11-157,11-158,11-159, section 13 para 11-167, section 14 para 11-174,11-175,11-176,11-177,11-178,11-179, section 15 para 11-185,11-186,11-187,11-188,11-189, section 16 para 11-205,11-206,11-207,11-208,11-209,11-219,11-220,11-222, section 17 para 11-230,11-231,11-232,11-233,11-235, chapter 12 section 2 para 12-8,12-9, 12-17,12-18,12-20 section 4 para 12-51,12-53,

AC43.13-2A chapter 1 para, chapter 2 para 21,22,23,24,25,26,27, chapter 3 para 36,44. AC20-138

The manuals listed above will provide guidance for any continued airworthiness tests that may arise in the future.

The weight and balance/equipment list and logbook entries have been updated to reflect the above installations.

END	)	 



Federal Aviation Administration

# MAJOR REPAIR AND ALTERATION, (Airframe, Powerplant, Propeller, or Appliance) 2 1998

Form Approved OMB No. 2120-0020

For FAA Use Only

Office Identification

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

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

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#### NOTICE

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

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**☆U.S.G.P.O.** 1990-761-753

## NOV 16 1988

DEPARTMENT OF TRANSPORTATION Form Approved
Budget Bureau No. 04 - Rote 5 FEDERAL AVIATION ADMINISTRATION FOR FAA USE ONLY MAJOR REPAIR AND ALTERATION OFFICE IDENTIFICATION (Airframe, Powerplant, Propeller, or Appliance) AEA-FSD0-05 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 Cessna P210N 1. AIRCRAFT NATIONALITY AND REGISTRATION MARK SERIAL NO. P21000635 NAME (As shown on registration certificate) ADDRESS (As shown on registration certificate)
3628 North Lynoak Suite 103 2. OWNER Centurion Data Services Inc. | Claremont CA 91711 3. FOR FAA USE ONLY 4. UNIT IDENTIFICATION 5. TYPF SERIAL NO. XX AIRFRAME Personne (As described in item 1 above) encesse POWERPLANT PROPELLER TTP APPLIANCE CONFORMITY STATEMENT A. AGENCY'S NAME AND ADDRESS B. KIND OF AGENCY C. CERTIFICATE NO. U.S. CERTIFICATED MECHANIC Richard W. Newell FOREIGN CERTIFICATED MECHANIC P.O. Box 137 1961756 CERTIFICATED REPAIR STATION Fleetville, PA 18420 MANUFACTURER I certify that the repair and/or alteration made to the unit(s) identified in item 4 above and described on the reverse or attachments hereto have been made in accordance with the requirements of Part 43 of the U.S. Federal Aviation Regulations and that the information furnished berein is true and correct to the best of my knowledge. DATE SIGNATURE OF, AUTHORIZED INDIVIDUAL Nov. 15, 1988 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 XX APPROVED REJECTED FAA RT. STANDARDS INSPECTOR OTHER (Specify) X MANUFACTURER INSPECTION AUTHORIZATION CANADIAN DEPARTMENT OF TRANSPORT INSPECTOR OF AIRCRAFT FAA DESIGNEE REPAIR STATION DATE OF APPROVAL OR CERTIFICATE OR SIGNATURE OF AUTHORIZED INDIVIDUAL

Nov. 15. FAA Form 337 (7-67)

REJECTION

☆ U.S. Government Printing Office 1977—772-646/141

DESIGNATION NO.

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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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FELTS FIELD AVIATION INC.  P.O. BOX 11877  SPOKANE, WA 99211  I certify that the repair and/or alteration made to the unit(s) identified in item 4 above and described on the reverse or and that the information furnished herein is true and correct to the best of my knowledge.  SIGNATURE OF AUTHORIZED INDIVIDUAL  Administrator of the Federal Aviation Administration and is APPROVED REJECTED  FAA FLT. STANDARDS  MANUFACTURER  B. KIND OF AGENCY  C. CERTIFICATE NO.  FOREIGN CERTIFICATED MECHANIC  SOS - 4  MANUFACTURER  FOREIGN CERTIFICATED MECHANIC  SOS - 4  MANUFACTURER  SIGNATURE OF AUTHORIZED INDIVIDUAL  TOUCHOUS ACTION  FAA FLT. STANDARDS  MANUFACTURER  INSPECTION AUTHORIZATION  OTHER (Specify)  FAA DESIGNEE  REPAIR STATION  CANADIAN DEPARTMENT  OF TRANSPORT INSPECTOR									

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, craft nationality and registration mark and date work completed.)

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ADDITIONAL SHEETS ARE ATTACHED

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FEDERAL AVIATION ADMINISTRATION

# MAJOR REPAIR AND ALTERATION

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

	(Airframe, Powerplant, P	rope	ller,	or Applia	nce)		OFFICE IDENTIFI VM - FS		6/
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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. DESCRIPTIO	OF WORK ACCOMPLISHED (If more space is required, attach additional sheets. Identify with air- onality and registration mark and date work completed.)
	Installation of Turboplus, Inc. intercooler system no. C210-15000 in accordance with Turboplus, Inc. installation instructions no. II-15000 dated May 11, 1984 or later FAA approved revisions per STC SA2390NM. Weight and balance
	revised accordingly.
	Installation of Graphic Engine Monitor system model GEM-602 S/N 403 and subsequent in accordance with Insight Instrument Corporation manual "Installing the Graphic Engine Monitor" dated September 1, 1982 per STC SA157NE. Weight, and balance revised accordinglyEnd
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	ANDITIONAL SHEETS ARE ATTACHED

FAA Form 337 (7-67)

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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 craft nationality and registration mark and date work completed.)	sheets.	Identify with air-
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DEPARTMENT OF TRANSPORTATION—EEDERAL AVIATION ADMINISTRATION

STANDARD AIRWORTHINESS CERTIFICATE

1. NATIONALITY AND

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3. AIRCRAFT SEEL.

4. CATEGORY

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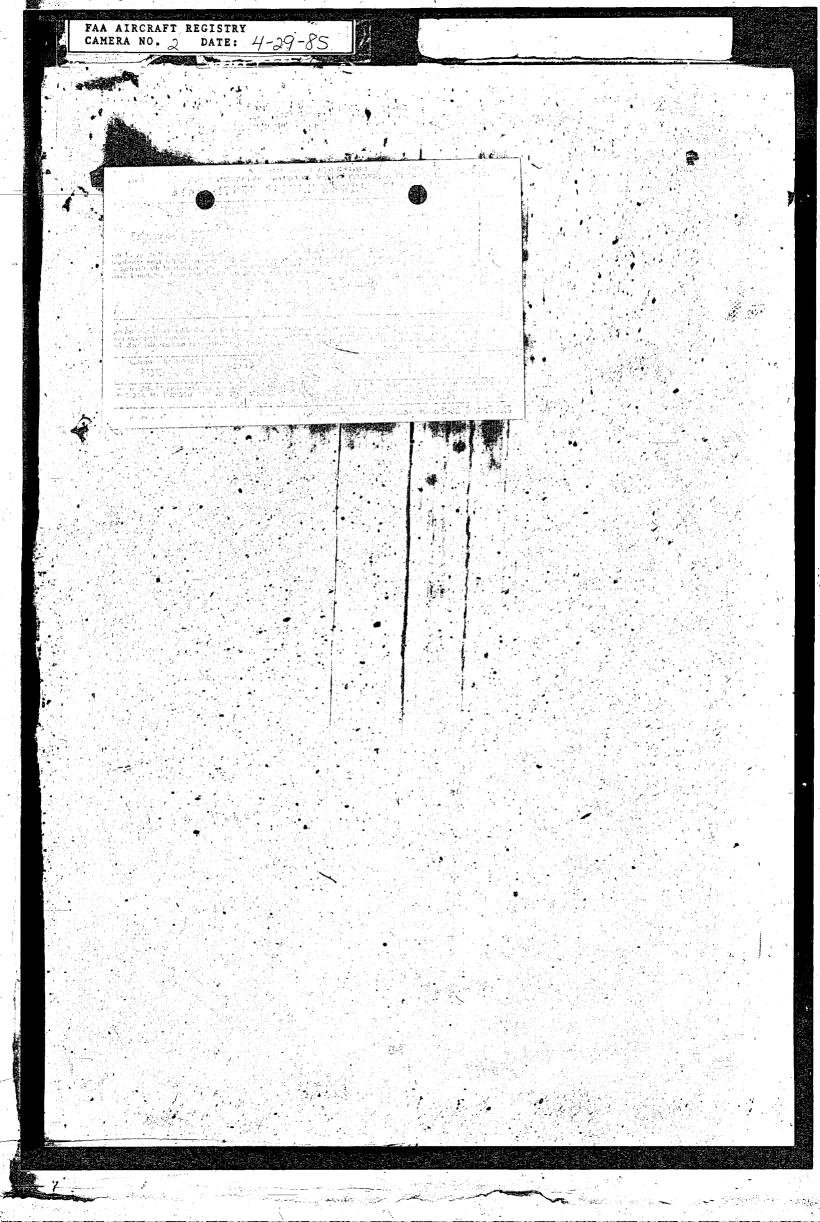
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9/28/82 FAA Form 337 (7-67)

DATE OF APPROVAL OR REJECTION

BY

FAA FLT, STANDARDS

FAA DESIGNEE

RS4406

RS4406

Printing Office 1977—772-646/14

MANUFACTURER

REPAIR STATION

CERTIFICATE OR DESIGNATION NO.

(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.

DESCRIPTION OF WORK ACCOMPLISHED (IT more space is required) craft nationality and registration mark and date work completed.)	dditional sheets. Identify with air-
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