



US Department  
of Transportation  
Federal Aviation  
Administration

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

OMB No. 2120-0020  
Exp: 5/31/2018

Electronic Tracking Number

For FAA Use Only

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))

1. Aircraft	Nationality and Registration Mark N5083W	Serial No. P21000635
	Make Cessna	Model P210N
2. Owner	Name (As shown on registration certificate) Abacus Properties, Inc.	Address (As shown on registration certificate) Address PO Box 400
		City Port Saint Joe State FL
		Zip 32457-0400 Country USA

**3. For FAA Use Only**

4. Type		5. Unit Identification			
Repair	Alteration	Unit	Make	Model	Serial No.
<input type="checkbox"/>	<input checked="" type="checkbox"/>	AIRFRAME	Cessna	(As described in Item 1 above)	P21000635
<input type="checkbox"/>	<input type="checkbox"/>	POWERPLANT			
<input type="checkbox"/>	<input type="checkbox"/>	PROPELLER			
<input type="checkbox"/>	<input type="checkbox"/>	APPLIANCE	Type		
			Manufacturer		

**6. Conformity Statement**

A. Agency's Name and Address		B. Kind of Agency	
Name Blake Sides		<input checked="" type="checkbox"/> U. S. Certified Mechanic	Manufacturer
Address 33 Arbor Oak Dr		<input type="checkbox"/> Foreign Certified Mechanic	C. Certificate No.
City Jackson State TN		<input type="checkbox"/> Certified Repair Station	
Zip 38305 Country USA		<input type="checkbox"/> Certified Maintenance Organization	3716170

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 per 14 CFR Part 43 App. B <input type="checkbox"/>	Signature/Date of Authorized Individual Bl S 8/12/2021
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**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

BY	FAA Fit. Standards Inspector	Manufacturer	Maintenance Organization	Persons Approved by Canadian Department of Transport
	FAA Designee	Repair Station	X Inspection Authorization	Other (Specify)

Certificate or Designation No. 3716170	Signature/Date of Authorized Individual Bl S 8/12/2021
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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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*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.)

N5083W	08/12/2021
Nationality and Registration Mark	Date

1) Removed electric standby vacuum system previously installed 29 Sep 1982.

2) Removed Mid-Continent Instruments and Avionics attitude gyro part number 23-501-06-16 serial number T60769K. Rerouted instrument pneumatic lines to bypass the removed attitude gyro.

3) Installed uAvionix AV-30C FAA STC SA00410BO in accordance with uAvionix AV-30-C Installation Manual Document UAV-1003947-001 Revision D.

4) Aircraft weight and balance updated in aircraft POH and maintenance records.

//////////////////////////////////////  
//////////////////////////////////////END//////////////////////////////////////

☐ Additional Sheets Are Attached

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Nationality and Registration Mark	Date

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Additional Sheets Are Attached



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

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))

1. Aircraft	Nationality and Registration Mark <b>N5083W</b>	Serial No. <b>P21000635</b>
	Make <b>Cessna</b>	Model <b>P210N</b> Series
2. Owner	Name (As shown on registration certificate) <b>Abacus Properties, Inc.</b>	Address (As shown on registration certificate) Address <b>P. O. Box 400</b>
		City <b>Port Saint Joe</b> State <b>FL</b>
		Zip <b>32457-0400</b> Country <b>USA</b>

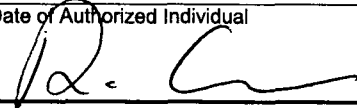
**3. For FAA Use Only**

4. Type		5. Unit Identification			
Repair	Alteration	Unit	Make	Model	Serial No.
<input type="checkbox"/>	<input checked="" type="checkbox"/>	AIRFRAME	<u>Cessna</u>	(As described in Item 1 above)	<u>P21000635</u>
<input type="checkbox"/>	<input type="checkbox"/>	POWERPLANT			
<input type="checkbox"/>	<input type="checkbox"/>	PROPELLER			
<input type="checkbox"/>	<input type="checkbox"/>	APPLIANCE	Type		
			Manufacturer		

**6. Conformity Statement**

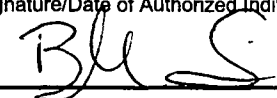
A. Agency's Name and Address		B. Kind of Agency	
Name <b>Rukana Chikomb</b>		<input checked="" type="checkbox"/> U. S. Certificated Mechanic	Manufacturer
Address <b>102 Murray Guard Drive H60</b>		<input type="checkbox"/> Foreign Certificated Mechanic	C. Certificate No.
City <b>Jackson</b> State <b>TN</b>		<input type="checkbox"/> Certificated Repair Station	
Zip <b>38305</b> Country <b>USA</b>		<input type="checkbox"/> Certificated Maintenance Organization	<b>3240614</b>

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 per 14 CFR Part 43 App. B <input type="checkbox"/>	Signature/Date of Authorized Individual  <b>01-04-2021</b>
--	--

**7. Approval for Return to Service**

Pursuant to the authority given persons specified below, the unit identified in item 5 was inspected in the manner prescribed by the Administrator of the Federal Aviation Administration and is ☒ Approved ☐ Rejected

BY	FAA Fit. Standards Inspector	Manufacturer	Maintenance Organization	Persons Approved by Canadian Department of Transport
	FAA Designee	Repair Station <b>X</b>	Inspection Authorization	Other (Specify)
Certificate or Designation No. <b>3716170</b>		Signature/Date of Authorized Individual  <b>01-04-2021</b>		

## 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.)*

N5083W

01-04-2021

Nationality and Registration Mark

Date

Removed original equipment tail navigation light assembly. Installed Whelen tail LED light assembly p/n 01-0771774x02. Removed original equipment wing tip navigation and strobe light system. Installed Wilco wing tip position/strobe light kit per FAA STC SA01827WI. Used original electrical power wires to the three light assemblies. Electrical load is reduced from the original equipment installation. Work performed in accordance with the STC installation instructions and standard industry practices. --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  
2/28/2011

Electronic Tracking Number

For 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)).

<b>1. Aircraft</b>	Nationality and Registration Mark N5083W	Serial No. P21000635	
	Make Cessna	Model P210N	Series
<b>2. Owner</b>	Name (As shown on registration certificate) ABACUS LTD	Address (As shown on registration certificate)	
		Address PO BOX 400	
		City PORT SAINT JOE	State FLORIDA
		Zip 32457	Country UNITED STATES

**3. For FAA Use Only**

4. Type		5. Unit Identification			
Repair	Alteration	Unit	Make	Model	Serial No.
<input type="checkbox"/>	<input checked="" type="checkbox"/>	AIRFRAME	_____	(As described in item 1 above)	_____
<input type="checkbox"/>	<input type="checkbox"/>	POWERPLANT	_____	_____	_____
<input type="checkbox"/>	<input type="checkbox"/>	PROPELLER	_____	_____	_____
<input type="checkbox"/>	<input type="checkbox"/>	APPLIANCE	Type	_____	_____
			Manufacturer		

**6. Conformity Statement**

<b>A. Agency's Name and Address</b>		<b>B. Kind of Agency</b>	
Name Skyworld Avionics LLC		<input type="checkbox"/> U.S. Certificated Mechanic	<input type="checkbox"/> Manufacturer
Address 5083 Airport Rd Hangar 46		<input type="checkbox"/> Foreign Certificated Mechanic	<b>C. Certificate No.</b> 9MIR
City Midland State Virginia		<input checked="" type="checkbox"/> Certificated Repair Station	
Zip 22728 Country United States		<input type="checkbox"/> 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 per 14 CFR Part 43 App. B ☐ Signature/Date of Authorized Individual  
*Zachary Gatewood* 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 <input checked="" type="checkbox"/> APPROVED <input type="checkbox"/> REJECTED					
BY	FAA Fit. Standards Inspector	Manufacturer	Maintenance Organization	Person Approved by Canadian Department of Transport	
	FAA Designee	<input checked="" type="checkbox"/> Repair Station	Inspection Authorization	Other (Specify)	
Certificate or Designation No. 9MIR		Signature/Date of Authorized Individual <i>Zachary Gatewood</i> Zachary Gatewood 6/14/16			



## NOTICE

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### 8. Description of Work Accomplished

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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.

☒ Additional Sheets Are Attached





## NOTICE

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### 8. Description of Work Accomplished

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

N5083W

Nationality and Registration Mark

6/14/16

Date

12. List of special tools: A Milliohm meter will be required for electrical bonding checks. Use Agilent HP 4338B, or equivalent.

13. For commuter category aircraft: N/A

14. Recommended overhaul periods: The system does not require overhaul at a specific time period. Continuous monitoring of the ADS600-B transmitter and receiver will monitor the health of the unit. If the unit indicates a failure condition, the unit may be removed and replaced.

15. Airworthiness limitation section: None

16. Revision: To revise this ICA, a letter must be submitted to the ACO along with the revised ICA. The ACO will obtain AEG acceptance, and approve any revision to the Airworthiness Limitations Section 1.3. After FAA acceptance/approval, NavWorx will release the revised ICA for customer use, and provide any required notification of the revision. The latest revision of this document will be available on the NavWorx website ([www.navworx.com](http://www.navworx.com)). A NavWorx Service Bulletin, describing the ICA revision(s), will be sent to dealers/installers.

☐ Additional Sheets Are Attached





United States of America  
Department of Transportation  
Federal Aviation Administration

# Supplemental Type Certificate

Number SA11172SC

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: [\*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.*

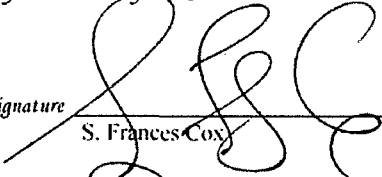
Date of application: July 15, 2013

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).



# 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
B	Revised notes to remove specific interface equipment	Scott Horn	October 10, 2014
C	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	<i>John Herdick</i> Acting Manager ASW-146	March 15, 2016



**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.





### 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:

- a. The type certification basis is shown on Approved Model List for parts not changed or not affected by the change.
- b. 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),



## 4. SA11172SC Approved Model List

Aircraft Make	Aircraft Model(s)	Type Certificate Data Sheet	Approved data in addition to that listed on STC cover	AML Amendment
Piper Aircraft, Inc.	PA-32-260, PA-32-300, PA-32S-300, PA-32R-300, PA-32RT-300, PA-32RT-300T, PA-32R-301(SP), PA-32R-301(HP), PA-32R-301T, PA-32-301, PA-32-301T	A3SO	None	Original Issue
Piper Aircraft, Inc.	PA-34-200, PA-34-200T, PA-34-220T	A7SO	None	Original Issue
Cessna Aircraft Company	172, 172A, 172B, 172C, 172D, 172E, 172F, 172G, 172H, 172I, 172K, 172M, 172N, 172P, 172Q, 172R, 172S	3A12	None	Original Issue
Cessna Aircraft Company	150, 150A, 150B, 150C, 150D, 150E, 150F, 150G, 150H, 150J, 150K, 150L, 150M, 152, A152	3A19	None	Original Issue
Beechcraft Corporation	35-33, 35-A33, 35-B33, 35-C33, 35-C33A, E33, E33A, E33C, F33, F33A, F33C, G33, H35, J35, K35, M35, N35, P35, S35, V35, V35A, V35B, 36, A36, A36TC, B36TC	3A15	None	A
Beechcraft Corporation	35, A35, B35, C35, D35, E35, F35, G35, 35R	A-777	None	A
Beechcraft Corporation	19A, B19, M19A, 23, A23, A23A, A23-19, A23-24, B23, C23, A24, A24R, B24R, C24R	A1CE	None	A
Cessna Aircraft Company	172RG, P172D, R172E, R172F, R172G, R172H, R172J, R172K, 175, 175A, 175B, 175C	3A17	None	A
Cessna Aircraft Company	177, 177A, 177B	A13CE	None	A
Mooney International Corporation	M22	A6SW	None	A
Piper Aircraft, Inc.	PA-23, PA-23-160, PA-23-235	1A10	None	A
Piper Aircraft, Inc.	PA-24, PA-24-250, PA-24-260, PA-24-400	1A15	None	A
Cessna Aircraft Company	210, 210A, 210B, 210C, 210D, 210E, T210F, 210G, T210G, 210H, T210H, 210J, T210J, 210K, T210K, 210L, T210L, 210M, T210M, 210N, P210N, T210N, 210R, P210R, T210R, 210-5 (205), 210-5A, (205A)	3A21	None	A



**FAA APPROVED**

**AIRPLANE FLIGHT MANUAL SUPPLEMENT**

for

ADS600-B™

as installed in

Cessna P210N

Make and Model Airplane

Registration No. N5083W S/N P21000635

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: *Mary A. Cox*

*for*

S. Frances Cox, Manager  
Special Certification Office  
Federal Aviation Administration  
Fort Worth, TX 76137



**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**

<b>Revision</b>	<b>Date</b>	<b>Description of Change</b>
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.







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

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)).

<b>1. Aircraft</b>	Nationality and Registration Mark N5083W	Serial No. P21000635	
	Make Cessna	Model P210N	Series
<b>2. Owner</b>	Name (As shown on registration certificate) ABACUS LTD	Address (As shown on registration certificate)	
		Address PO BOX 400	
		City PORT SAINT JOE	State FLORIDA
		Zip 32457	Country UNITED STATES

**3. For FAA Use Only**

4. Type		5. Unit Identification			
Repair	Alteration	Unit	Make	Model	Serial No.
<input type="checkbox"/>	<input checked="" type="checkbox"/>	AIRFRAME	_____	(As described in item 1 above)	_____
<input type="checkbox"/>	<input type="checkbox"/>	POWERPLANT	_____	_____	_____
<input type="checkbox"/>	<input type="checkbox"/>	PROPELLER	_____	_____	_____
<input type="checkbox"/>	<input type="checkbox"/>	APPLIANCE	Type	_____	_____
			Manufacturer	_____	

**6. Conformity Statement**

<b>A. Agency's Name and Address</b>		<b>B. Kind of Agency</b>	
Name	Skyworld Avionics LLC	<input type="checkbox"/> U.S. Certificated Mechanic	<input type="checkbox"/> Manufacturer
Address	5083 Airport Rd Hangar 46	<input type="checkbox"/> Foreign Certificated Mechanic	<b>C. Certificate No.</b> 9MIR
City	Midland State Virginia	<input checked="" type="checkbox"/> Certificated Repair Station	
Zip	22728 Country United States	<input type="checkbox"/> 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 per 14 CFR Part 43 App. B ☐ Signature/Date of Authorized Individual  
*Zachary Gatewood* 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 <input checked="" type="checkbox"/> APPROVED <input type="checkbox"/> REJECTED					
BY	<input type="checkbox"/> FAA Fit. Standards Inspector	<input type="checkbox"/> Manufacturer	<input type="checkbox"/> Maintenance Organization	Person Approved by Canadian Department of Transport	
	<input type="checkbox"/> FAA Designee	<input checked="" type="checkbox"/> Repair Station	<input type="checkbox"/> Inspection Authorization	Other (Specify)	
Certificate or Designation No. 9MIR		Signature/Date of Authorized Individual <i>Zachary Gatewood</i> Zachary Gatewood 6/14/16			



## 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 with aircraft nationality and registration mark and date work completed.)*

N5083W

Nationality and Registration Mark

6/14/16

Date

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

☒ Additional Sheets Are Attached



## 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.)*

N5083W

Nationality and Registration Mark

6/14/16

Date

Limitations section is FAA approved and specifies maintenance required under § 43.16 and 91.403 of the Federal Aviation Regulations unless an alternative program has been FAA approved.

**16. Revision:** Revisions to this document shall be coordinated through the Boston Aircraft Certification Office, the Kansas City AEG, and the STC holder. If you would like to be notified of future revisions to this manual please furnish the information listed below: Name Address City, State, and ZIP Code Part Number of Manual Current Revision Status of the Manual E-mail address Phone Number Please submit this information to: Avidyne Corporation 55 Old Bedford Road Lincoln, MA 01773

☐ Additional Sheets Are Attached





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: See attached FAA Approved Model List (AML), Document No.  
Make: AVAXP-006, Revision 00. FAA approved on April 09, 2015, or later  
Model: 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

Robert G. Mann

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)





**Avidyne 200-00247-XXX  
Transponder  
Instructions for Continued Airworthiness**

As installed in

Cessna P210N

(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  
transponder antenna are specifically excluded from the  
STC.



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**

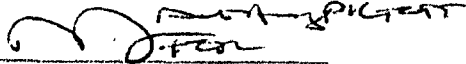
in  
Cessna P210N  
Make and Model Airplane

Registration No. N5083W

Serial No. P21000635

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: APR 09 2015

Page 1 of 10

P/N 600-00309-000  
Rev 02

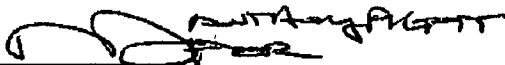


**Avidyne 200-00247-XXX Transponder  
Approved Model List for STC SA00352BO**

**AVIDYNE  
CORPORATION**

55 Old Bedford Road  
Lincoln, MA 01773

FAA Approved: \_\_\_\_\_

  
Manager APR 09 2015  
Boston Aircraft Certification Office  
Federal Aviation Administration  
Burlington, MA

Document Number		AVAXP-006	Control Category	N/A
Revision	Description		ECO	Date
00	Initial Release		ECO-15-020	01/12/15

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## **Table of Contents**

<b>1. Introduction .....</b>	<b>3</b>
<b>2. Approved Model List.....</b>	<b>4</b>

FAA Approved Date: APR 09 2015

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*AVAXP-006*

*Not to be disclosed without permission*

*Revision: 00, Date: 01/12/15*





Make	TCDS	Model	Certification	Specific Data
		210A	CAR 3	
		210E	CAR 3	
		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	CAR 3	
		210L	CAR 3	
		210K	CAR 3	
		210G	CAR 3	
		210H	CAR 3	
		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 09 2015

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AVAXP-006

Not to be disclosed without permission

Revision: 00, Date: 01/12/15





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

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)).

1. Aircraft	Nationality and Registration Mark N5083W	Serial No. P21000635	
	Make Cessna	Model P210N	Series
2. Owner	Name (As shown on registration certificate) ABACUS LTD	Address (As shown on registration certificate)	
		Address PO BOX 400	
		City PORT SAINT JOE	State FLORIDA
		Zip 32457	Country UNITED STATES

### 3. For FAA Use Only

4. Type		5. Unit Identification			
Repair	Alteration	Unit	Make	Model	Serial No.
<input type="checkbox"/>	<input checked="" type="checkbox"/>	AIRFRAME	_____	(As described in item 1 above)	_____
<input type="checkbox"/>	<input type="checkbox"/>	POWERPLANT	_____	_____	_____
<input type="checkbox"/>	<input type="checkbox"/>	PROPELLER	_____	_____	_____
<input type="checkbox"/>	<input type="checkbox"/>	APPLIANCE	Type _____ 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		Foreign Certificated Mechanic	C. Certificate No.
City Midland State Virginia		<input checked="" type="checkbox"/> Certificated Repair Station	9MIR
Zip 22728 Country United States		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 per  
14 CFR Part 43 App. B ☐

Signature/Date of Authorized Individual

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

BY	FAA Fit. Standards Inspector	Manufacturer	Maintenance Organization	Person Approved by Canadian Department of Transport
	FAA Designee	<input checked="" type="checkbox"/> Repair Station	Inspection Authorization	Other (Specify)
Certificate or Designation No. 9MIR		Signature/Date of Authorized Individual Zachary Gatewood 6/14/16		



## 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 with aircraft nationality and registration mark and date work completed.)*

N5083W

Nationality and Registration Mark

6/14/16

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 existing 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

☒ Additional Sheets Are Attached



## 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.)*

N5083W

Nationality and Registration Mark

6/14/16

Date

**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 Limitations section is FAA approved and specifies maintenance required under § 43.16 and 91.403 of the Federal Aviation Regulations unless an alternative program has been FAA approved.

**16. Revision:** Revisions to this document shall be coordinated through the Boston Aircraft Certification Office, the Kansas City AEG, and the STC holder. If you would like to be notified of future revisions to this manual please furnish the information listed: Name Address City, State, and ZIP Code Part Number of Manual Current Revision Status of the Manual E-mail address Phone Number. Please submit this information to: Avidyne Corporation 55 Old Bedford Road Lincoln, MA 01773

☐ Additional Sheets Are Attached





Avidyne Corporation  
55 Old Bedford Road  
Lincoln, MA 01773

**FAA Approved**  
**Airplane Flight Manual Supplement**

For  
Cessna P210N  
Make and Model Airplane  
with

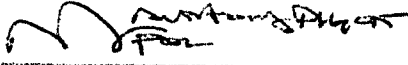
Avidyne Integrated Flight Displays p/n 700-00182-XXX and 700-00179-XXX

Registration No. N5083W

Serial No. P21000635

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 18 2015

Page 1 of 22

P/N 600-00298-000  
Rev 02



**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. N5083W 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.

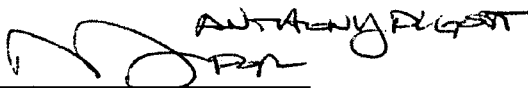


**Avidyne 700-00182-XXX and 700-00179-XXX  
GPS/Nav/Comm  
Approved Model List for STC SA00343BO**

**AVIDYNE  
CORPORATION**

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		ECO	Date
00	Initial Release		ECO-14-200	07/11/14
01	Added 700-00179-XXX		ECO-15-129	03/20/15
02	Updated Table		ECO-16-185	06/02/16

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## **Table of Contents**

<b>1. Introduction .....</b>	<b>3</b>
<b>2. Approved Model List.....</b>	<b>4</b>

**FAA Approved Date: June 8, 2016**





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 175, 175A, 175B, 175C	3A17	CAR 3	
	150, 150A, 150B, 150C, 150D, 150E, 150F, 150G, 150H, 150J, 150K, 150L, A150L, 150M, A150K, A150M 152, A152	3A19	CAR 3 14 CFR Part 23	
	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 340, 340A, 335	3A25	CAR 3	
	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





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

1. 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 

Robert G. Mann

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).



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





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

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. 1421). Failure to report can result in a civil penalty for each such violation. (49 U.S.C. §46301(a))

1. Aircraft	Nationality and Registration Mark N5083W	Serial No. P21000635		
	Make Cessna	Model P210N	Series	
2. Owner	Name (As shown on registration certificate) Abacus, LTD		Address (As shown on registration certificate)	
			Address <u>P. O. box 1381</u>	
			City <u>Jacksonville</u>	State <u>OR</u>
			Zip <u>97530-1381</u>	Country <u>USA</u>

3. For FAA Use Only

4. Type		5. Unit Identification			
Repair	Alteration	Unit	Make	Model	Serial Number
<input checked="" type="checkbox"/>	<input type="checkbox"/>	AIRFRAME	_____	(As described in Item 1 above)	_____
<input type="checkbox"/>	<input type="checkbox"/>	POWERPLANT			
<input type="checkbox"/>	<input type="checkbox"/>	PROPELLER			
<input type="checkbox"/>	<input type="checkbox"/>	APPLIANCE	Type		
			Manufacturer		

6. Conformity Statement

A. Agency's Name and Address		B. Kind of Agency	
Name <u>David Carter</u>		<input checked="" type="checkbox"/> U.S. Certificated Mechanic	<input type="checkbox"/> Manufacturer
Address <u>478 White Avenue</u>		<input type="checkbox"/> Foreign Certificated Mechanic	C. Certificate No.
City <u>Henderson</u> State <u>TN</u>		<input type="checkbox"/> Certificated Repair Station	<u>2707291</u>
Zip <u>38340</u> Country <u>USA</u>		<input type="checkbox"/> 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 per 14 CFR Part 43 App. B <input type="checkbox"/>	Signature/Date of Authorized Individual <u>David Carter</u> <u>6/9/2015</u>
--	--

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

BY	<input type="checkbox"/> FAA Flt Standards Inspector	<input type="checkbox"/> Manufacturer	<input type="checkbox"/> Maintenance Organization	<input type="checkbox"/> Person Approved by Canadian Department of Transport
	<input type="checkbox"/> FAA Designee	<input type="checkbox"/> Repair Station	<input checked="" type="checkbox"/> Inspection Authorization	Other (Specify)

Certificate or Designation No. <u>2707291</u>	Signature/Date of Authorized Individual <u>David Carter</u> <u>6/9/2015</u>
--	--

## 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.)

N5083W

6/9/2015

Nationality and Registration Mark

Date

Fabricated and installed a patch on left pilots floorboard using an Alclad 2024T-3 0.032" thick aluminum plate. Dimensions are 4.5 X 3.75 inches and installed at the left forward corner of the cabin floor skin above the left fuel header tank. Installed a minimum of 12 rivets on each side of the skin split with a combination of original rivet pattern and extra rivets. Work performed in accordance with Cessna P210 Service Manual section 18 paragraphs 18-2, 18-7, 18-13, 18-56, 18-63, FAA . AC43.13-1B change 1 Paragraph 4-27(g), 4-58(l)(m)(n), Figure 4-16, and Table 4-9, 4-10, and 4-11.

-end-

☐ Additional Sheets Are Attached





US Department  
of Transportation  
Federal Aviation  
Administration

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

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

Electronic Tracking Number

For 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))

1. Aircraft	Nationality and Registration Mark <b>USA N5083W</b>	Serial No. <b>P21000635</b>	
	Make <b>Cessna</b>	Model <b>P210N</b>	Series <b>200</b>
2. Owner	Name (As shown on registration certificate) <b>Abacus LTD</b>	Address (As shown on registration certificate) Address: <b>PO Box 1381</b> City: <b>Jacksonville</b> State: <b>OR</b> Zip: <b>97530-1381</b> Country: <b>USA</b>	

**3. For FAA Use Only**

4. Type		5. Unit Identification			
Repair	Alteration	Unit	Make	Model	Serial No.
		AIRFRAME		(As described in item 1 above)	
	X	POWERPLANT	Continental	TSIO-520-P	506376
		PROPELLER			
		APPLIANCE	Type		
			Manufacturer		

**6. Conformity Statement**

A. Agency's Name and Address <b>Jet Center MFR</b> <b>5000 Cirrus Drive</b> <b>Medford, OR 97504</b>	B. Kind of Agency	Manufacturer
	<input type="checkbox"/> U.S. Certificated Mechanic	C. Certificate No.
	<input type="checkbox"/> Foreign Certificated Mechanic	<b>GPCR185</b>
	<input checked="" type="checkbox"/> Certificated Repair Station	<b>Airframe Class I &amp; II</b>
	<input type="checkbox"/> Certificated Maintenance Organization	<b>Radio Class I &amp; II Limited</b>

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 Per 14 CFR Part 43 App. B <input type="checkbox"/>	Signature/Date of Authorized Individual <b>10-10-2014</b> <b>Richard T. Fontes</b>
--	--

**7. Approval for Return To Service**

Pursuant to the authority given persons specified below, the unit identified in item 5 was inspected in the manner prescribed by the Administrator of the Federal Aviation Administration and is ☒ **APPROVED** ☐ **REJECTED**

BY	FAA Flt. Standards Inspector	Manufacturer	Maintenance Organization	Person Approved by Transport Canada Airworthiness Group
	FAA Designee	X Repair Station	Inspection Authorization	Other (Specify)

Certificate or Designation No. <b>GPCR185E</b>	Signature/Date of Authorized Individual <b>10-10-2014</b> <b>Richard T. Fontes</b>
---	--

# 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 and registration mark and date work completed.)

USA N5083W

Nationality and Registration Mark

10-10-2014

Date

1. Removed six (6) TCM fuel nozzles p/n 632748-14B-NB and installed General Aviation Modifications, Inc. GAMInjectors Kit number GT14B, s/n 24150 per General Aviation Modifications, Inc's STC# SE09289SC PMA No. PQ821SW per Installation Procedure number IP-97-002 Rev 005 dated October 05, 2005. Instructions for continued airworthiness are contained in General Aviation Modifications, Inc. Installation Procedure number IP-97-002 Rev 005 dated October 05, 2005.

No Weight and Balance change and Equipment List was revised. It is the owner/operator's responsibility to ensure all applicable inspections required by FAR 91.409 are included in their inspection program and complied with.

\*\*\*\*\*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

For 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))

1. Aircraft	Nationality and Registration Mark N5083W	Serial No. P21000635	
	Make Cessna	Model P210N	Series
2. Owner	Name (As shown on registration certificate) ABACUS LTD	Address (As shown on registration certificate)	
		Address Po Box 1381	
		City Jacksonville	State OR
		Zip 97530	Country United States

**3. For FAA Use Only**

4. Type		5. Unit Identification			
Repair	Alteration	Unit	Make	Model	Serial No.
<input type="checkbox"/>	<input checked="" type="checkbox"/>	AIRFRAME	_____	(As described in Item 1 above)	_____
<input type="checkbox"/>	<input type="checkbox"/>	POWERPLANT	_____	_____	_____
<input type="checkbox"/>	<input type="checkbox"/>	PROPELLER	_____	_____	_____
<input type="checkbox"/>	<input type="checkbox"/>	APPLIANCE	Type _____	_____	_____
			Manufacturer _____		

**6. Conformity Statement**

A. Agency's Name and Address		B. Kind of Agency	
Name	Twin Cities Aviation. Joshua Konakowitz	<input checked="" type="checkbox"/> U. S. Certificated Mechanic	Manufacturer
Address	8891 Airport Road	<input type="checkbox"/> Foreign Certificated Mechanic	C. Certificate No.
City	Blaine State Mn	<input type="checkbox"/> Certificated Repair Station	3705204
Zip	55449 Country United States	<input type="checkbox"/> 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 per 14 CFR Part 43 App. B <input type="checkbox"/>	Signature/Date of Authorized Individual MAY 01, 2014
--	---

**7. Approval for Return to Service**

Pursuant to the authority given persons specified below, the unit identified in item 5 was inspected in the manner prescribed by the Administrator of the Federal Aviation Administration and is ☒ Approved ☐ Rejected

BY	FAA Flt. Standards Inspector	Manufacturer	Maintenance Organization	Persons Approved by Canadian Department of Transport
	FAA Designee	Repair Station	<input checked="" type="checkbox"/> Inspection Authorization	

Certificate or Designation No. 3464563	Signature/Date of Authorized Individual MAY 01, 2014
--	---

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

MAY 01, 2014

8. Description of Work Accomplished

Nationality and Registration Mark

Date

Installed Rosen sunvisor system kit PN: RCS-300-4, following instructions provided by Rosen sunvisor systems Doc# 9051-0118-018 REV. D. IAW STC SA00871SE.

----- END -----

[ ] Additional Sheets 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

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))

1. Aircraft	Nationality and Registration Mark N5083W	Serial No. P21000635	
	Make CESSNA	Model P210N	Series
2. Owner	Name (As shown on registration certificate) ABACUS LTD	Address (As shown on registration certificate)	
		Address PO BOX 1381	
		City JACKSONVILLE	State OREGON
		Zip 97530-1381	Country

3. For FAA Use Only

4. Type		5. Unit Identification			
Repair	Alteration	Unit	Make	Model	Serial No.
<input type="checkbox"/>	<input checked="" type="checkbox"/>	AIRFRAME		(As described in Item 1 above)	
<input type="checkbox"/>	<input type="checkbox"/>	POWERPLANT			
<input type="checkbox"/>	<input type="checkbox"/>	PROPELLER			
<input type="checkbox"/>	<input type="checkbox"/>	APPLIANCE	Type		
			Manufacturer		

6. Conformity Statement

A. Agency's Name and Address		B. Kind of Agency	
Name Trenton Wallman Twin Cities Aviation		<input checked="" type="checkbox"/> U. S. Certificated Mechanic	Manufacturer
Address 8891 Airport Rd North		<input type="checkbox"/> Foreign Certificated Mechanic	C. Certificate No.
City Elaine	State MN	<input type="checkbox"/> Certificated Repair Station	3579667
Zip 55449	Country USA	<input type="checkbox"/> 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 per 14 CFR Part 43 App. B <input type="checkbox"/>	Signature/Date of Authorized Individual MAY 01, 2014
--	---

7. Approval for Return to Service

Pursuant to the authority given persons specified below, the unit identified in item 5 was inspected in the manner prescribed by the Administrator of the Federal Aviation Administration and is ☒ Approved ☐ Rejected

BY	FAA Flt. Standards Inspector	Manufacturer	Maintenance Organization	Persons Approved by Canadian Department of Transport
	FAA Designee	Repair Station	<input checked="" type="checkbox"/> Inspection Authorization	

Certificate or Designation No. 3464563	Signature/Date of Authorized Individual MAY 01, 2014
--	---

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

N5083W

MAY 01, 2014

Nationality and Registration Mark

Date

Installed B.A.S. INC. Inertia Reel Shoulder Harness System, serial number 15940 & 15941, in accordance with BAS Instalation instructions Report 1102 Rev. A and STC SA00855SE.

Weight change negligible.

----- 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

For 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))

1. Aircraft	Nationality and Registration Mark N5083W	Serial No. P21000635	
	Make CESSNA	Model P210N	Series
2. Owner	Name (As shown on registration certificate) MARTIN LEON E	Address (As shown on registration certificate)	
		Address 14167 MIELKE PL	
		City HERMOSA	State SD
		Zip 57744-5408	Country UNITED STATES

**3. For FAA Use Only**

4. Type		5. Unit Identification			
Repair	Alteration	Unit	Make	Model	Serial No.
<input type="checkbox"/>	<input checked="" type="checkbox"/>	AIRFRAME	_____	(As described in Item 1 above)	_____
<input type="checkbox"/>	<input type="checkbox"/>	POWERPLANT	_____	_____	_____
<input type="checkbox"/>	<input type="checkbox"/>	PROPELLER	_____	_____	_____
<input type="checkbox"/>	<input type="checkbox"/>	APPLIANCE	Type	_____	_____
			Manufacturer		

**6. Conformity Statement**

A. Agency's Name and Address		B. Kind of Agency	
Name	TWIN CITIES AVIATION BENJAMIN PORCH	<input checked="" type="checkbox"/> U. S. Certificated Mechanic	<input type="checkbox"/> Manufacturer
Address	8891 AIRPORT RD BOX A2	<input type="checkbox"/> Foreign Certificated Mechanic	C. Certificate No.
City	BLAINE State MN	<input type="checkbox"/> Certificated Repair Station	3337731
Zip	55449 Country UNITED STATES	<input type="checkbox"/> 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 per 14 CFR Part 43 App. B <input type="checkbox"/>	Signature/Date of Authorized Individual 4/10/14
--	--

**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

BY	FAA Flt. Standards Inspector	Manufacturer	Maintenance Organization	Persons Approved by Canadian Department of Transport
	FAA Designee	Repair Station	<input checked="" type="checkbox"/> Inspection Authorization	

Certificate or Designation No. 3464563	Signature/Date of Authorized Individual 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 WITH 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 -----

[ ] Additional Sheets 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

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))

1. Aircraft	Nationality and Registration Mark N5083W	Serial No. P21000635	
	Make CESSNA	Model P210N	Series
2. Owner	Name (As shown on registration certificate) MARTIN LEON E	Address (As shown on registration certificate) Address 14167 MIELKE PL	
		City HERMOSA	State SD
		Zip 57744-5408	Country UNITED STATES

**3. For FAA Use Only**

4. Type		5. Unit Identification			
Repair	Alteration	Unit	Make	Model	Serial No.
<input type="checkbox"/>	<input checked="" type="checkbox"/>	AIRFRAME	_____	(As described in Item 1 above)	_____
<input type="checkbox"/>	<input type="checkbox"/>	POWERPLANT	_____	_____	_____
<input type="checkbox"/>	<input type="checkbox"/>	PROPELLER	_____	_____	_____
<input type="checkbox"/>	<input type="checkbox"/>	APPLIANCE	Type _____	_____	_____
			Manufacturer _____	_____	_____

**6. Conformity Statement**

A. Agency's Name and Address		B. Kind of Agency	
Name	TWIN CITIES AVIATION. JOSHUA SHEA	<input checked="" type="checkbox"/> U. S. Certificated Mechanic	Manufacturer
Address	8891 AIRPORT RD.	<input type="checkbox"/> Foreign Certificated Mechanic	C. Certificate No.
City	BLAINE State MN	<input type="checkbox"/> Certificated Repair Station	2771911
Zip	55449 Country US	<input type="checkbox"/> Certificated Maintenance Organization	

I. 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 14 CFR Part 43 App. B <input type="checkbox"/>	Signature/Date of Authorized Individual 4/10/14
--	--

**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

BY	FAA Fit. Standards Inspector	Manufacturer	Maintenance Organization	Persons Approved by Canadian Department of Transport
	FAA Designee	Repair Station	<input checked="" type="checkbox"/> Inspection Authorization	

Certificate or Designation No. 3464563	Signature/Date of Authorized Individual 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

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 negligible.

----- END -----

[ ] Additional Sheets 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

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))

1. Aircraft	Nationality and Registration Mark N5083W	Serial No. P21000635	
	Make CESSNA	Model P210N	Series
2. Owner	Name (As shown on registration certificate) MARTIN LEON E	Address (As shown on registration certificate) Address 14167 MIELKE PL	
		City HERMOSA	State SD
		Zip 57744-5408	Country UNITED STATES

3. For FAA Use Only

4. Type		5. Unit Identification			
Repair	Alteration	Unit	Make	Model	Serial No.
<input type="checkbox"/>	<input checked="" type="checkbox"/>	AIRFRAME		(As described in Item 1 above)	
<input type="checkbox"/>	<input type="checkbox"/>	POWERPLANT			
<input type="checkbox"/>	<input type="checkbox"/>	PROPELLER			
<input type="checkbox"/>	<input type="checkbox"/>	APPLIANCE	Type Manufacturer		

6. Conformity Statement

A. Agency's Name and Address		B. Kind of Agency	
Name	TWIN CITIES AVIATION (BENJAMIN PORCH)	<input checked="" type="checkbox"/> U. S. Certificated Mechanic	Manufacturer
Address	8891 AIRPORT RD. BOX A2	<input type="checkbox"/> Foreign Certificated Mechanic	C. Certificate No.
City	BLAINE State MN	<input type="checkbox"/> Certificated Repair Station	3337731
Zip	55449 Country UNITED STATES	<input type="checkbox"/> 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 per 14 CFR Part 43 App. B <input type="checkbox"/>	Signature/Date of Authorized Individual 4/10/14
--	--

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

BY	FAA Fit. Standards Inspector	Manufacturer	Maintenance Organization	Persons Approved by Canadian Department of Transport
	FAA Designee	Repair Station	<input checked="" type="checkbox"/> Inspection Authorization	Other (Specify)

Certificate or Designation No. 3464563	Signature/Date of Authorized Individual 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

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 PRE-FLIGHT 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 -----

[ ] Additional Sheets Are Attached



US Department  
of Transportation  
Federal Aviation  
Administration

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

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

Electronic Tracking Number

For FAA Use Only

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 form 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)).

1. Aircraft	Nationality and Registration Mark <b>N5083W</b>	Serial No. <b>P210000635</b>	
	Make <b>Cessna</b>	Model <b>P210N</b>	Series
2. Owner	Name (As shown on registration certificate) <b>LEON MARTIN</b>	Address (As shown on registration certificate) <b>14167 MIELKE PLACE HERMOSA, SD 57744-5408</b>	

**3. For FAA Use Only**

4. Type		5. Unit Identification			
Repair	Alteration	Unit	Make	Model	Serial No.
<input type="checkbox"/>	<input checked="" type="checkbox"/>	AIRFRAME	<del>XXXXXXXXXXXXXXXXXXXX</del>	(As described in item 1 above)	<del>XXXXXXXXXXXXXXXXXXXX</del>
<input type="checkbox"/>	<input type="checkbox"/>	POWERPLANT			
<input type="checkbox"/>	<input type="checkbox"/>	PROPELLER			
<input type="checkbox"/>	<input type="checkbox"/>	APPLIANCE	Type Manufacturer		

**6. Conformity Statement**

A. Agency's Name and Address <b>MODERN AVIONICS 10000 FLYING CLOUD DR. EDEN PRAIRIE, MN 55347 USA</b>	B. Kind of Agency		C. Certificate No. <b>QI2R110L</b>	
	<input type="checkbox"/>	U.S. Certificated Mechanic		Manufacturer
	<input type="checkbox"/>	Foreign Certificated Mechanic		
	<input checked="" type="checkbox"/>	Certificated Repair Station		
	<input type="checkbox"/>	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 per 14 CFR Part 43 App. B <input type="checkbox"/>	Signature/Date of Authorized Individual  Kurt Schendel May 31, 2012
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**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

BY	FAA Flt. Standards Inspector	Manufacturer	Maintenance Organization	Person Approved by Canadian Department of Transport
	FAA Designee	<input checked="" type="checkbox"/> Repair Station	Inspection Authorization	Other (Specify)

Certificate or Designation No. <b>QI2R110L</b>	Signature/Date of Authorized Individual  Kurt Schendel May 31, 2012
--	--

## 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.)*

**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.**

----- E N D -----

☐ 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

For 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)).

1. Aircraft	Nationality and Registration Mark N5083W	Serial No. P21000635	
	Make CESSNA	Model P210	Series N
2. Owner	Name (As shown on registration certificate) MARTIN LEON E	Address (As shown on registration certificate) Address 14167 MIELKE PL City HERMOSA State SD Zip 57744-5408 Country USA	

### 3. For FAA Use Only

4. Type		5. Unit Identification			
Repair	Alteration	Unit	Make	Model	Serial No.
<input type="checkbox"/>	<input type="checkbox"/>	AIRFRAME		(As described in item 1 above)	
<input type="checkbox"/>	<input type="checkbox"/>	POWERPLANT			
<input type="checkbox"/>	<input type="checkbox"/>	PROPELLER			
<input type="checkbox"/>	<input checked="" type="checkbox"/>	APPLIANCE	Type starter adapter Manufacturer teledyne continental	635050A4	WS27669FW

### 6. Conformity Statement

A. Agency's Name and Address		B. Kind of Agency	
Name	Western Skyways, Inc.	U.S. Certificated Mechanic	Manufacturer
Address	21 Creative Place	Foreign Certificated Mechanic	C. Certificate No.
City	Montrose State CO	<input checked="" type="checkbox"/> Certificated Repair Station	WS9R575J
Zip	81401 Country USA	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 per 14 CFR Part 43 App. B <input type="checkbox"/>	Signature/Date of Authorized Individual  Rene' Medina May 20, 2011
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### 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 <input checked="" type="checkbox"/> APPROVED <input type="checkbox"/> REJECTED					
BY	FAA Fit. Standards Inspector	Manufacturer	Maintenance Organization	Person Approved by Canadian Department of Transport	
	FAA Designee	<input checked="" type="checkbox"/> Repair Station	Inspection Authorization	Other (Specify)	
Certificate or Designation No. WS9R575J		Signature/Date of Authorized Individual  Rene' Medina May 20, 2011			

## 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.)

N5083W

Nationality and Registration Mark

May 20, 2011

Date

Installation of S539800M30 starter adapter spring in accordance with Aircraft Specialties Inc.. per STC SE09846SC and STC Document List 1101A, Rev. 1 dated May 3, 2006, or later FAA approved revision. Starter Adapter was overhauled in accordance with TCM Overhaul Manual X30575A and applicable Service information.

—END—

☐ Additional Sheets Are Attached





US Department  
of Transportation  
Federal Aviation  
Administration

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

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

Electronic Tracking Number

For FAA Use Only

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))

1. Aircraft	Nationality and Registration Mark U.S.A. 5083W	Serial No. P21000635	
	Make Cessna	Model P 210N	Series
2. Owner	Name (As shown on registration certificate) MARTIN, LEON		Address (As shown on registration certificate)
			Address 14167 MIELKE PLACE
			City HERMOSA State SD
			Zip 57744 Country

**3. For FAA Use Only**

4. Type		5. Unit Identification			
Repair	Alteration	Unit	Make	Model	Serial No.
<input type="checkbox"/>	<input checked="" type="checkbox"/>	AIRFRAME	_____	(As described in Item 1 above)	_____
<input type="checkbox"/>	<input type="checkbox"/>	POWERPLANT	_____	_____	_____
<input type="checkbox"/>	<input type="checkbox"/>	PROPELLER	_____	_____	_____
<input type="checkbox"/>	<input type="checkbox"/>	APPLIANCE	Type	_____	_____
			Manufacturer	_____	

**6. Conformity Statement**

A. Agency's Name and Address		B. Kind of Agency	
Name Kent Hersey		<input checked="" type="checkbox"/> U. S. Certificated Mechanic	Manufacturer
Address 760 Bishop Mountain Road		<input type="checkbox"/> Foreign Certificated Mechanic	C. Certificate No.
City Hill City State SD		<input type="checkbox"/> Certificated Repair Station	2460727
Zip 57745 Country USA		<input type="checkbox"/> 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 per 14 CFR Part 43 App. B <input type="checkbox"/>	Signature/Date of Authorized Individual
	June 10, 2009 Kent Hersey

**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

BY	FAA Fit. Standards Inspector	Manufacturer	Maintenance Organization	Persons Approved by Canadian Department of Transport
	FAA Designee	Repair Station	<input checked="" type="checkbox"/> Inspection Authorization	

Certificate or Designation No. 2460727	Signature/Date of Authorized Individual
	June 10, 2009 Kent Hersey

### 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.)*

U.S.A. 5083W

06/10/2009

Nationality and Registration Mark

Date

Removed factory installed engine instrument cluster, consisting of Amp meter, Oil pressure, Cylinder head temp, Oil temp, along with dual manifold/fuel pressure gauge. Removed factory installed vacuum system gauge. Removed Insight graphic engine monitor, previously installed under S.T.C. SA157NE and its flight manual supplement. Removed Symbolic Displays, Inc. CFS-1001 computerized fuel flow indicator, previously installed per S.T.C. SA3835WE and its associated flight manual supplement. Removed Horizon Instrument, Inc. model P-1000 engine tachometer previously installed per S.T.C. SA5821NM and its associated flight manual supplement.

Installed XERION AVIONICS, LLC. Digital Engine Monitoring system in accordance with Xerion, AuRACLE II 6-cyl Installation Manual XA-EngAna-AuRll6Cyllnst revision H dated 6/19/2008 of S.T.C. SA02434NY. Installed flight manual supplement revision C dated 7/9/08 along with a copy of Xerion, AuRACLE Engine Management System pilot guide, Revision E, dated 3/5/08. Instructions for continued airworthiness, Issue A has been installed with aircraft paperwork (Log Books). System is approved as PRIMARY engine instrumentation, including instrument vacuum.

-----END-----

☐ Additional Sheets Are Attached

*On*



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 JHL*

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).

1. Aircraft	Make <b>Cessna</b>	Model <b>P 210N</b>
	Serial No. <b>P21000635</b>	Nationality and Registration Mark <b>U.S.A. N5083W</b>
2. Owner	Name (As shown on registration certificate) <b>MARTIN, LEON</b>	Address (As shown on registration certificate) <b>HCR83 BOX 9B HERMOSA, SD 57744</b>

**3. For FAA Use Only**

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4. Unit Identification				5. Type	
Unit	Make	Model	Serial No.	Repair	Alteration
AIRFRAME	~~~~~ ( As described in Item 1 above ) ~~~~~				
POWERPLANT	Teledyne Continental	TSIO-520-P(6)	278927-R		X
PROPELLER					
APPLIANCE	Type				
	Manufacturer				

**6. Conformity Statement**

A. Agency's Name and Address	B. Kind of Agency	C. Certificate No.
Joseph Izzillo 3702 Winners Circle Rapid City, SD 57702	<input checked="" type="checkbox"/> U.S. Certificated Mechanic	049584389
	<input type="checkbox"/> Foreign Certificated Mechanic	
	<input type="checkbox"/> Certificated Repair Station	
	<input type="checkbox"/> Manufacturer	

D. I certify that the repair and/or alteration made to the unit(s) identified in item 4 above and described on the reverse or attachments hereto have been made in accordance with the requirements of Part 43 of the U.S. Federal Aviation Regulations and that the information furnished herein is true and correct to the best of my knowledge.

Date <b>5/21/2004</b>	Signature of Authorized Individual <i>Joseph Izzillo</i> Joseph Izzillo
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**7. Approval For Return To Service**

Pursuant to the authority given persons specified below, the unit identified in item 4 was inspected in the manner prescribed by the Administrator of the Federal Aviation Administration and is

☒ APPROVED ☐ REJECTED

BY	FAA Fit Standards Inspector	Manufacturer	X	Inspection Authorization	Other (Specify)
	FAA Designee	Repair Station		Person Approved by Transport Canada Airworthiness Group	
Date of Approval or Rejection <b>5/21/2004</b>		Certificate or Designation No. <b>049584389</b>	Signature of Authorized Individual <i>Joseph Izzillo</i> Joseph Izzillo		

## 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.)*

N5083W 5/21/04. Installed modified fuel injector nozzles in accordance with General Aviation Modifications, Inc. S.T.C. SE09289SC. Installation per GAMI procedure No IP-97-002 dated 2/6/1997. Removed six (6) TCM fuel nozzles P/N 632748 - 14C and installed General Aviation Modifications, Inc. turboGAMIjectors Kit No. GT 14C S/N 12728 STC No. SE 092899SC PMA No. PQ821SW per turboGAMIjector Installation Procedure No. IP-97-002 (rev 001) dated February 6, 1997. No change in weight and balance. No required continued airworthiness. GAMI does recommend cleaning nozzles at normal intervals of 100-200 hours. END.

☒ Additional Sheets are Attached

United States Of America  
Department of Transportation - Federal Aviation 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 airworthiness 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 Type 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.

*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 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 received:*

*Date of issuance:* February 06, 1997

*Date amended:* April 8, 1997, Rev. 1



*By direction of the Administrator*

*A. J. Merrill*  
(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:

*[Signature]*

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 TSIO-520-P, SN 278927 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 [Signature]  
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

*288 66-27*

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).

1. Aircraft	Make <b>Cessna</b>	Model <b>P 210N</b>
	Serial No. <b>P21000635</b>	Nationality and Registration Mark <b>U.S.A. N5083W</b>
2. Owner	Name (As shown on registration certificate) <b>MARTIN, LEON</b>	Address (As shown on registration certificate) <b>HCR83 BOX 9B HERMOSA, SD 57744</b>

**3. For FAA Use Only**

4. Unit Identification				5. Type	
Unit	Make	Model	Serial No.	Repair	Alteration
AIRFRAME	~~~~~ (As described in Item 1 above) ~~~~~				X
POWERPLANT					
PROPELLER					
APPLIANCE	Type				
	Manufacturer				

**6. Conformity Statement**

A. Agency's Name and Address	B. Kind of Agency	C. Certificate No.
<b>Joseph Izzillo 3702 Winners Circle Rapid City, SD 57702</b>	<input checked="" type="checkbox"/> U.S. Certificated Mechanic	<b>049584389</b>
	<input type="checkbox"/> Foreign Certificated Mechanic	
	<input type="checkbox"/> Certificated Repair Station	
	<input type="checkbox"/> Manufacturer	

D. I certify that the repair and/or alteration made to the unit(s) identified in item 4 above and described on the reverse or attachments hereto have been made in accordance with the requirements of Part 43 of the U.S. Federal Aviation Regulations and that the information furnished herein is true and correct to the best of my knowledge.

Date <b>5/21/2004</b>	Signature of Authorized Individual <i>Joseph Izzillo</i> Joseph Izzillo
--------------------------	---

**7. Approval For Return To Service**

Pursuant to the authority given persons specified below, the unit identified in item 4 was inspected in the manner prescribed by the Administrator of the Federal Aviation Administration and is ☒ APPROVED ☐ REJECTED

BY	FAA Flt Standards Inspector	Manufacturer	<input checked="" type="checkbox"/>	Inspection Authorization	Other (Specify)
	FAA Designee	Repair Station		Person Approved by Transport Canada Airworthiness Group	
Date of Approval or Rejection <b>5/21/2004</b>		Certificate or Designation No. <b>049584389</b>	Signature of Authorized Individual <i>Joseph Izzillo</i> Joseph Izzillo		

## 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.)*

N5083W 5/21/04. Removed factory installed tachometer and installed P-1000 series electronic digital tachometer and is certified as the primary engine RPM reference per the S.T.C. SA5821NM. Installation accomplished per Horizop instruments, Inc. P-1000 Installation & Instruction Manual P103050, Rev E dated 1/21/02 as directed by the S.T.C. SA5821NM. No additional continued airworthiness needs addressed in S.T.C. END.



Additional Sheets are Attached



United States of America  
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

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

*Date of application:* April 8, 1991

*Date received:*

*Date of issuance:* August 28, 1992

*Date amended:* JUL 13 1993

*By direction of the Administrator*

*(Signature)*  
Manager, Propulsion Branch  
Los Angeles Aircraft Certification Office

*(Title)*



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

This certificate may be transferred in accordance with FAR 21.47.

United States of America  
Department of Transportation—Federal Aviation Administration  
**Supplemental Type Certificate**  
(Continuation Sheet)

*Number* SA5821NM

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

<u>Aircraft Model</u>	<u>Applicability Table Serial Numbers</u>	<u>Tachometer Part Number</u>
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	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
210-5	ALL	P100054-160-03
210-5A	ALL	P100054-160-03

--END--

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

AUG 15 2002 mtn



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

*gls*

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).

1. Aircraft	Make <b>Cessna</b>	Model <b>P 210N</b>
	Serial No. <b>P21000635</b>	Nationality and Registration Mark <b>U.S.A. N5083W</b>
2. Owner	Name (As shown on registration certificate) <b>MARTIN, LEON</b>	Address (As shown on registration certificate) <b>1081 WOODRIDGE DR. RAPID CITY, SD 57701-5367</b>

## **3. For FAA Use Only**

<b>4. Unit Identification</b>						<b>5. Type</b>	
Unit	Make	Model	Serial No.	Repair	Alteration		

AIRFRAME	~~~~~ (As described in Item 1 above) ~~~~~				X
POWERPLANT					
PROPELLER					
APPLIANCE	Type				
	Manufacturer				

## **6. Conformity Statement**

A. Agency's Name and Address	B. Kind of Agency	C. Certificate No.
Kent Hersey 658 Bishop Mt. Road Hill City, SD 57745	<input checked="" type="checkbox"/> U.S. Certificated Mechanic	2460727
	<input type="checkbox"/> Foreign Certificated Mechanic	
	<input type="checkbox"/> Certificated Repair Station	
	<input type="checkbox"/> Manufacturer	

D. I certify that the repair and/or alteration made to the unit(s) identified in item 4 above and described on the reverse or attachments hereto have been made in accordance with the requirements of Part 43 of the U.S. Federal Aviation Regulations and that the information furnished herein is true and correct to the best of my knowledge.

Date <b>08/14/2002</b>	Signature of Authorized Individual <b>Kent Hersey</b> <i>Kent Hersey</i>
---------------------------	---

## **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						<input checked="" type="checkbox"/> APPROVED	<input type="checkbox"/> REJECTED
BY:	FAA Flt Standards Inspector	Manufacturer	<input checked="" type="checkbox"/>	Inspection Authorization	Other (Specify)		
	FAA Designee	Repair Station		Person Approved by Transport Canada Airworthiness Group			
Date of Approval or Rejection <b>08/14/2002</b>		Certificate or Designation No. <b>2460727</b>	Signature of Authorized Individual <b>Kent Hersey</b> <i>Kent Hersey</i>				

## 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.)*

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 controller attached to the aircraft records. END.

☒ Additional Sheets are Attached

*Copy*

United States of America  
Department of Transportation -- Federal Aviation 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 Regulations.*

*Original Product - Type Certificate Number :* 3A21

*Make :* Cessna

*Model :* 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, revoked or a termination date is otherwise established by the Administrator of the Federal Aviation Administration.*

*Date of application :* December 10, 1998

*Date reissued :*

*Date of issuance :* December 23, 1999

*Date amended :*



*By direction of the Administrator*

*Joel M. Ligon*  
(Signature)

Joel M. Ligon  
Program Manager  
Wichita Aircraft Certification Office

(Title)



MAR 09 2001



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

61-27 GSD-

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).

1. Aircraft	Make Cessna	Model P 210N
	Serial No. P21000635	Nationality and Registration Mark U.S.A. N5083W
2. Owner	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 Only

## 4. Unit Identification

Unit	Make	Model	Serial No.	5. Type	
				Repair	Alteration
AIRFRAME	~~~~~ (As described in Item 1 above) ~~~~~				
POWERPLANT	Teledyne Continental	TSIO-520-P	278770-R		X
PROPELLER					
APPLIANCE	Type				
	Manufacturer				

## 6. Conformity Statement

A. Agency's Name and Address Dwight Pladsen 4571 Wentworth Dr. Rapid City, SD 57702	B. Kind of Agency	C. Certificate No. 501-66-2929
	<input checked="" type="checkbox"/> U.S. Certificated Mechanic	
	<input type="checkbox"/> Foreign Certificated Mechanic	
	<input type="checkbox"/> Certified Repair Station	
	Manufacturer	

D. I certify that the repair and/or alteration made to the unit(s) identified in item 4 above and described on the reverse or attachments hereto have been made in accordance with the requirements of Part 43 of the U.S. Federal Aviation Regulations and that the information furnished herein is true and correct to the best of my knowledge.

Date 03/08/2001	Signature of Authorized Individual Dwight Pladsen
--------------------	--

## 7. Approval For Return To Service

Pursuant to the authority given persons specified below, the unit identified in item 4 was inspected in the manner prescribed by the Administrator of the Federal Aviation Administration and is

☒ APPROVED ☐ REJECTED

BY	FAA Fit Standards Inspector	Manufacturer	X	Inspection Authorization	Other (Specify)
	FAA Designee	Repair Station		Person Approved by Transport Canada Airworthiness Group	
Date of Approval or Rejection 03/08/2001		Certificate or Designation No. 501-66-2929	Signature of Authorized Individual Dwight Pladsen		

## 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.)*

N5083W. Removed six (6) TCM fuel nozzles P/N 632748 - 14C and installed General Aviation Modifications, Inc. turboGAMjectors Kit No. GT14C S/N 8440. STC No. SE09289SC, PMA No. PQ821SW, per turboGAMjector 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 Aviation 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 airworthiness 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 Type 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, "TurboGAMjector 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 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 reissued:*

*Date of issuance:* February 06, 1997

*Date amended:* April 8, 1997, Rev. 1



*By direction of the Administrator*

*A. J. Merrill*  
(Signature)

A. J. Merrill  
Manager, Special Certification Office  
Southwest Region

(Title)

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

**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:

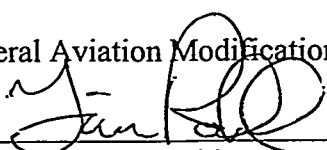


Date: April 8, 1997

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 TSIO-520P, SN 278770-R and N/A, 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]

2-23-01

Date

OKe copy

 US Department of Transportation Federal Aviation Administration	<b>MAJOR REPAIR AND ALTERATION</b> <b>(Airframe, Powerplant, Propeller, or Appliance)</b>				Form Approved OMB No. 2120-0020	
					For FAA Use Only	
					Office Identification GL27 RAP FSDO <i>Wij</i>	
INSTRUCTIONS: Print or type all entries. See FAR 43.9, FAR 43 Appendix B, and AC 43.9-1 (or subsequent revision thereof) for instructions and disposition of this form. This report is required by law (49 U.S.C. 1421). Failure to report can result in a civil penalty not to exceed \$1,000 for each such violation (Section 901 Federal Aviation Act of 1958).						
1. Aircraft	Make <b>Cessna</b>	Model <b>P210N</b>		Nationality and Registration Mark <b>USA N5083W</b>		
	Serial No. <b>P21000635</b>					
2. Owner	Name (As shown on registration certificate) <b>Martin, Leon E</b>		Address (As shown on registration certificate) <b>1081 Woodridge Drive Rapid City, SD 57701</b>			
3. For FAA Use Only						
THE DATA IDENTIFIED HEREIN COMPLIES WITH APPLICABLE AIRWORTHINESS REQUIREMENTS AND IS APPROVED ONLY FOR THE ABOVE DESCRIBED AIRCRAFT SUBJECT TO CONFORMITY INSPECTION BY A PERSON AUTHORIZED IN FAR 43.7						
<i>Mark E. Hood</i> <b>MAR 01 2001</b> RAP FSDO DISTRICT OFFICE						
APPROVING FAA INSPECTOR DATE						
4. Unit Identification						
5. Type						
Unit	Make	Model	Serial No.	Repair	Alteration	
AIRFRAME	~~~~~ (As described in Item 1 above) ~~~~~				X	
POWERPLANT						
PROPELLER						
APPLIANCE	Type					
	Manufacturer					
6. Conformity Statement						
A. Agency's Name and Address <b>Business Aviation Avionics 3900 Airport Road Rapid City, SD 57703</b>		B. Kind of Agency <input type="checkbox"/> U.S. Certificated Mechanic <input type="checkbox"/> Foreign Certificated Mechanic <input checked="" type="checkbox"/> Certificated Repair Station <input type="checkbox"/> Manufacturer		C. Certificate No. <b>DDND793K</b>		
D. I certify that the repair and/or alteration made to the unit(s) identified in item 4 above and described on the reverse or attachments hereto have been made in accordance with the requirements of Part 43 of the U.S. Federal Aviation Regulations and that the information furnished herein is true and correct to the best of my knowledge.						
Date <b>02/28/01</b>		Signature of Authorized Individual <i>Tony J. Fremo</i> <b>Tony J Fremo</b>				
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 <input checked="" type="checkbox"/> APPROVED <input type="checkbox"/> REJECTED						
BY	FAA Fit. Standards Inspector	Manufacturer	Inspection Authorization	Other (Specify)		
	FAA Designee	<input checked="" type="checkbox"/> Repair Station	Person Approved by Transport Canada Airworthiness Group			
Date of Approval or Rejection <b>3/1/01</b>		Certificate or Designation No. <b>DDND793K</b>	Signature of Authorized Individual <i>Tony J. Fremo</i> <b>Tony J Fremo</b>			

## 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

#### 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 01 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


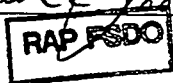
AIRCRAFT SERIAL NO.: P21000635

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 01 2001**

WAR OF 1801

1801

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

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

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NORMAL PROCEDURES .....	6
PERFORMANCE.....	7
WEIGHT AND BALANCE .....	7
AIRPLANE & SYSTEM DESCRIPTIONS.....	7

MAR 01 2001

RAP FSDO

1965 10 24 AM



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

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

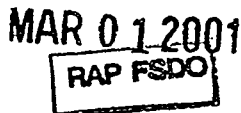
## SECTION I GENERAL

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.



THE  
FEDERAL BUREAU OF INVESTIGATION  
UNITED STATES DEPARTMENT OF JUSTICE  
WASHINGTON, D. C. 20535

TO : DIRECTOR, FBI (100-441111)  
FROM : SAC, NEW YORK (100-100000)  
SUBJECT: [Illegible]

[Illegible text follows]

APR 10 3 42AM  
FBI - NEW YORK

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

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

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 turn-on 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.

1000 10 10/10  
1000 10 10/10  
1000 10 10/10

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 .....  $\frac{n}{m}$   $\frac{k}{t}$  (sets navigation units to "nautical miles" and "knots")
  - (b) alt, vs .....  $\frac{ft}{ft}$  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.

100210 SAM

100210 SAM

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. DETAILED OPERATING PROCEDURES

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.

MAR 01 2001

RAP FSDO

1000

1000

1000

1000



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.

**MAR 01 2001**

**RAP FSDO**

FILED 3 JAN  
1964



US Department  
of Transportation  
Federal Aviation  
Administration

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

Form Approved  
OMB No. 2120-0020

For FAA Use Only

Office Identification

GL27 RAP FSDO my

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

1. Aircraft	Make <b>Cessna</b>	Model <b>P210N</b>
	Serial No. <b>P21000635</b>	Nationality and Registration Mark <b>USA N5083W</b>
2. Owner	Name (As shown on registration certificate) <b>Martin, Leon E</b>	Address (As shown on registration certificate) <b>1081 Woodridge Drive Rapid City, SD 57701</b>

## 3. For FAA Use Only

THE DATA IDENTIFIED HEREIN COMPLIES WITH APPLICABLE AIRWORTHINESS REQUIREMENTS AND IS APPROVED ONLY FOR THE ABOVE DESCRIBED AIRCRAFT SUBJECT TO CONFORMITY INSPECTION BY A PERSON AUTHORIZED IN FAR 43.7

*Mark E. Wood* 2-28-2001 RAP FSDO  
APPROVING FAA INSPECTOR DATE DISTRICT OFFICE

4. Unit Identification				5. Type	
Unit	Make	Model	Serial No.	Repair	Alteration
AIRFRAME	~~~~~ (As described in Item 1 above) ~~~~~				X
POWERPLANT					
PROPELLER					
APPLIANCE	Type				
	Manufacturer				

## 6. Conformity Statement

A. Agency's Name and Address <b>Business Aviation Avionics 3900 Airport Road Rapid City, SD 57703</b>	B. Kind of Agency	C. Certificate No.  <b>DDND793K</b>
	<input type="checkbox"/> U.S. Certificated Mechanic	
	<input type="checkbox"/> Foreign Certificated Mechanic	
	<input checked="" type="checkbox"/> Certificated Repair Station	
	Manufacturer	

D. I certify that the repair and/or alteration made to the unit(s) identified in item 4 above and described on the reverse or attachments hereto have been made in accordance with the requirements of Part 43 of the U.S. Federal Aviation Regulations and that the information furnished herein is true and correct to the best of my knowledge.

Date <b>02/28/01</b>	Signature of Authorized Individual <i>Tony J. Fremo</i> <b>Tony J. Fremo</b>
-------------------------	--

## 7. Approval for Return To Service

Pursuant to the authority given persons specified below, the unit identified in item 4 was inspected in the manner prescribed by the Administrator of the Federal Aviation Administration and is ☒ APPROVED ☐ REJECTED

BY	FAA Flt. Standards Inspector	Manufacturer	Inspection Authorization	Other (Specify)
	FAA Designee	<input checked="" type="checkbox"/> Repair Station	Person Approved by Transport Canada Airworthiness Group	
Date of Approval or Rejection <b>2/28/01</b>		Certificate or Designation No. <b>DDND793K</b>	Signature of Authorized Individual <i>Tony J. Fremo</i> <b>Tony J. Fremo</b>	

## 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 11-30,11-31,11-32,11-33,11-35,11-36,11-37,11-38, 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 12-51,12-52,12-53,  
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-----

☐ Additional Sheets Are Attached



US Department  
of Transportation  
Federal Aviation  
Administration

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

Form Approved  
OMB No. 2120-0020

For FAA Use Only

Office Identification

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

1. Aircraft	Make Cessna	Model P210N..
	Serial No. P21000635	Nationality and Registration Mark N5083W
2. Owner	Name (As shown on registration certificate) FLIGHT MANAGEMENT LEASING CORP.	Address (As shown on registration certificate) 400 Plaza Drive, P. O. Box 1250 Vestal, NY 13851

3. For FAA Use Only

4. Unit Identification

5. Type

Unit	Make	Model	Serial No.	Repair	Alteration
AIRFRAME	~~~~~ (As described in Item 1 above) ~~~~~				X
POWERPLANT					
PROPELLER					
APPLIANCE	Type				
	Manufacturer				

6. Conformity Statement

A. Agency's Name and Address O & N AIRCRAFT MODIFICATIONS, INC. 210 Windsock Lane, Seamans Airport Factoryville, PA 18419	B. Kind of Agency <input type="checkbox"/> U.S. Certificated Mechanic <input type="checkbox"/> Foreign Certificated Mechanic <input checked="" type="checkbox"/> Certificated Repair Station <input type="checkbox"/> Manufacturer	C. Certificate No. Limited Airframe ONFR798K
--	--	--

D. I certify that the repair and/or alteration made to the unit(s) identified in item 4 above and described on the reverse or attachments hereto have been made in accordance with the requirements of Part 43 of the U.S. Federal Aviation Regulations and that the information furnished herein is true and correct to the best of my knowledge.

Date January 21, 1998	Signature of Authorized Individual 
--------------------------	--

7. Approval for Return To Service

Pursuant to the authority given persons specified below, the unit identified in item 4 was inspected in the manner prescribed by the Administrator of the Federal Aviation Administration and is ☒ APPROVED ☐ REJECTED

BY	FAA Fit. Standards Inspector	Manufacturer	Inspection Authorization	Other (Specify)
	FAA Designee	X Repair Station	Person Approved by Transport Canada Airworthiness Group	
Date of Approval or Rejection 1/21/98		Certificate or Designation No. ONFR798K	Signature of Authorized Individual 	

### NOTICE

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

#### 8. Description of Work Accomplished

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


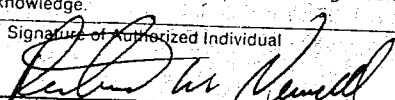
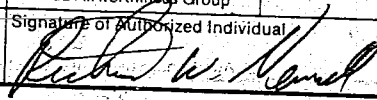
Installed O & N Aircraft Modifications, Inc. Low Fuel Warning Device in accordance with STC SA00606NY.

Flight Manual Supplement No. 34 provided. All pertinent records revised.

-----END-----

☐ Additional Sheets Are Attached

JUN 22 1994

 US Department of Transportation Federal Aviation Administration		<b>MAJOR REPAIR AND ALTERATION</b> (Airframe, Powerplant, Propeller, or Appliance)		Form Approved OMB No. 2120-0020 For FAA Use Only Office Identification <b>EA05 RK</b>	
INSTRUCTIONS: Print or type all entries. See FAR 43.9, FAR 43 Appendix B, and AC 43.9-1 (or subsequent revision thereof) for instructions and disposition of this form. This report is required by law (49 U.S.C. 1421). Failure to report can result in a civil penalty not to exceed \$1,000 for each such violation (Section 901 Federal Aviation Act of 1958).					
1. Aircraft	Make Cessna		Model P210N		
	Serial No. P21000635		Nationality and Registration Mark N5083W		
2. Owner	Name (As shown on registration certificate) FLIGHT MANAGEMENT LEASING CORP		Address (As shown on registration certificate) P. O. BOX 1250 VESTAL, NY 13851		
	3. For FAA Use Only				
4. Unit Identification					
Unit	Make	Model	Serial No.	5. Type	
AIRFRAME	(As described in Item 1 above)			Repair	Alteration
POWERPLANT					X
PROPELLER					
APPLIANCE	Type				
	Manufacturer				
6. Conformity Statement					
A. Agency's Name and Address		B. Kind of Agency		C. Certificate No.	
Richard Newell P. O. Box 137 Fleetville, PA 18420		<input checked="" type="checkbox"/> U.S. Certified Mechanic <input type="checkbox"/> Foreign Certified Mechanic <input type="checkbox"/> Certificated Repair Station <input type="checkbox"/> Manufacturer		1961756	
D. I certify that the repair and/or alteration made to the unit(s) identified in item 4 above and described on the reverse or attachments hereto have been made in accordance with the requirements of Part 43 of the U.S. Federal Aviation Regulations and that the information furnished herein is true and correct to the best of my knowledge.					
Date June 17, 1994		Signature of Authorized Individual 			
7. Approval for Return To Service					
Pursuant to the authority given persons specified below, the unit identified in item 4 was inspected in the manner prescribed by the Administrator of the Federal Aviation Administration and is <input checked="" type="checkbox"/> APPROVED <input type="checkbox"/> REJECTED					
BY	FAA Fit Standards Inspector	Manufacturer	<input checked="" type="checkbox"/> Inspection Authorization	Other (Specify)	
	FAA Designee	Repair Station	Person Approved by Transport Canada Airworthiness Group		
Date of Approval or Rejection 6-17-94		Certificate or Designation No. 1961756	Signature of Authorized Individual 		

NOTICE

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

8. Description of Work Accomplished

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

Installed Bob Fields Aerocessories inflatable door seals in accordance with STC SA2226NM.

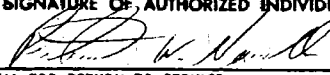
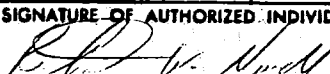
All pertinent records revised.

END

☐ Additional Sheets Are Attached



NOV 16 1988

DEPARTMENT OF TRANSPORTATION FEDERAL AVIATION ADMINISTRATION				Form Approved Budget Bureau No. 01-R-000	
MAJOR REPAIR AND ALTERATION (Airframe, Powerplant, Propeller, or Appliance)				FOR FAA USE ONLY	
				OFFICE IDENTIFICATION AEA-FSDO-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.					
1. AIRCRAFT	MAKE	Cessna	MODEL	P210N	
	SERIAL NO.	P21000635	NATIONALITY AND REGISTRATION MARK	N5083W	
2. OWNER	NAME (As shown on registration certificate)		ADDRESS (As shown on registration certificate)		
	Centurion Data Services Inc.		3628 North Lynoak Suite 103 Claremont CA 91711		
3. FOR FAA USE ONLY					
4. UNIT IDENTIFICATION					
UNIT	MAKE	MODEL	SERIAL NO.	5. TYPE	
				REPAIR	ALTERATION
AIRFRAME	***** (As described in item 1 above) *****				XX
POWERPLANT					
PROPELLER					
APPLIANCE	TYPE				
	MANUFACTURER				
6. CONFORMITY STATEMENT					
A. AGENCY'S NAME AND ADDRESS			B. KIND OF AGENCY		C. CERTIFICATE NO.
Richard W. Newell P.O. Box 137 Fleetville, PA 18420			<input checked="" type="checkbox"/> U.S. CERTIFICATED MECHANIC <input type="checkbox"/> FOREIGN CERTIFICATED MECHANIC <input type="checkbox"/> CERTIFICATED REPAIR STATION <input type="checkbox"/> MANUFACTURER		1961756
D. I certify that the repair and/or alteration made to the unit(s) identified in item 4 above and described on the reverse or attachments hereto have been made in accordance with the requirements of Part 43 of the U.S. Federal Aviation Regulations and that the information furnished herein is true and correct to the best of my knowledge.					
DATE Nov. 15, 1988			SIGNATURE OF AUTHORIZED INDIVIDUAL 		
7. APPROVAL FOR RETURN TO SERVICE					
Pursuant to the authority given persons specified below, the unit identified in item 4 was inspected in the manner prescribed by the Administrator of the Federal Aviation Administration and is <input checked="" type="checkbox"/> APPROVED <input type="checkbox"/> REJECTED					
BY	FAA FLT. STANDARDS INSPECTOR	MANUFACTURER	<input checked="" type="checkbox"/> INSPECTION AUTHORIZATION	OTHER (Specify)	
	FAA DESIGNEE	REPAIR STATION	CANADIAN DEPARTMENT OF TRANSPORT INSPECTOR OF AIRCRAFT		
DATE OF APPROVAL OR REJECTION Nov. 15, 1988		CERTIFICATE OR DESIGNATION NO. 1961756	SIGNATURE OF AUTHORIZED INDIVIDUAL 		

DATE: 8-1-89

## NOTICE

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

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

Installed O&N Aircraft Modification's aft baggage compartment auxiliary 29.7 gallon fuel tank and transfer system in accordance with STC SA532NE.

All Pertinent records were revised to reflect this installation.

**-End-**

[illegible]

☐ ADDITIONAL SHEETS ARE ATTACHED

DEPARTMENT OF TRANSPORTATION FEDERAL AVIATION ADMINISTRATION				Form Approved Budget Bureau No. 04-R060.1	
<b>MAJOR REPAIR AND ALTERATION</b> (Airframe, Powerplant, Propeller, or Appliance)				FOR FAA USE ONLY <i>PD</i>	
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.				OFFICE IDENTIFICATION <i>NW-GADO-5</i>	
1. AIRCRAFT	MAKE <i>Cessna</i>	MODEL <i>P-210</i>	NATIONALITY AND REGISTRATION MARK <i>N5083W</i>		
	SERIAL NO. <i>02635</i>				
2. OWNER	NAME (As shown on registration certificate) <i>Pacific Cabinet Corp</i>		ADDRESS (As shown on registration certificate) <i>INDUSTRIAL PARK Bldg #26 Spokane WA 99206</i>		
3. FOR FAA USE ONLY					
4. UNIT IDENTIFICATION					
UNIT	MAKE	MODEL	SERIAL NO.	5. TYPE	
				REPAIR	ALTERATION
AIRFRAME	***** (As described in item 1 above) *****				XX
POWERPLANT					
PROPELLER					
APPLIANCE	TYPE				
	MANUFACTURER				
6. CONFORMITY STATEMENT					
A. AGENCY'S NAME AND ADDRESS			B. KIND OF AGENCY		C. CERTIFICATE NO.
<b>FELTS FIELD AVIATION INC.</b> <b>P.O. BOX 11877</b> <b>SPOKANE, WA 99211</b>			U.S. CERTIFICATED MECHANIC		<i>SOS-4</i>
			FOREIGN CERTIFICATED MECHANIC		
			<input checked="" type="checkbox"/> CERTIFICATED REPAIR STATION		
			MANUFACTURER		
D. I certify that the repair and/or alteration made to the unit(s) identified in item 4 above and described on the reverse or attachments hereto have been made in accordance with the requirements of Part 43 of the U.S. Federal Aviation Regulations and that the information furnished herein is true and correct to the best of my knowledge.					
DATE: <i>8-3-81</i>			SIGNATURE OF AUTHORIZED INDIVIDUAL <i>Rodney Lattee</i>		
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 <input checked="" type="checkbox"/> APPROVED <input type="checkbox"/> REJECTED					
BY	FAA FLT. STANDARDS INSPECTOR	MANUFACTURER	INSPECTION AUTHORIZATION		OTHER (Specify)
	FAA DESIGNEE <input checked="" type="checkbox"/>	REPAIR STATION	CANADIAN DEPARTMENT OF TRANSPORT INSPECTOR OF AIRCRAFT		
DATE OF APPROVAL OR REJECTION <i>8-3-81</i>		CERTIFICATE OR DESIGNATION/NO. <i>SOS-4</i>	SIGNATURE OF AUTHORIZED INDIVIDUAL <i>Rodney Lattee</i>		

# 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.)

Aircraft Flight Tested on 8-3-81  
RNAV ERROR within tolerances of A.C 90-45A  
Appendix D. RNAV "VFR ONLY" PLACARD  
Removed

END

☐ ADDITIONAL SHEETS ARE ATTACHED

DEPARTMENT OF TRANSPORTATION FEDERAL AVIATION ADMINISTRATION				Form Approved Budget Bureau No. 04-R060.1	
<b>MAJOR REPAIR AND ALTERATION</b> (Airframe, Powerplant, Propeller, or Appliance)				FOR FAA USE ONLY	
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.				OFFICE IDENTIFICATION NW-6ADU-5	
1. AIRCRAFT	MAKE Cessna	MODEL P-210	NATIONALITY AND REGISTRATION MARK N5083W		
	SERIAL NO. 02635				
2. OWNER	NAME (As shown on registration certificate) Pacific Cabinet Corp.		ADDRESS (As shown on registration certificate) INDUSTRIAL PARK BLDG 426 Spokane WA 99206		
3. FOR FAA USE ONLY					
4. UNIT IDENTIFICATION					
UNIT	MAKE	MODEL	SERIAL NO.	5. TYPE	
AIRFRAME	***** (As described in item 1 above) *****			REPAIR	ALTERATION
POWERPLANT					X
PROPELLER					
APPLIANCE	TYPE				
	MANUFACTURER				
6. CONFORMITY STATEMENT					
A. AGENCY'S NAME AND ADDRESS			B. KIND OF AGENCY		C. CERTIFICATE NO.
FELTS FIELD AVIATION INC. P.O. BOX 11877 SPOKANE, WA 99211			U.S. CERTIFICATED MECHANIC		505-4
			FOREIGN CERTIFICATED MECHANIC		
			<input checked="" type="checkbox"/> CERTIFICATED REPAIR STATION		
			MANUFACTURER		
D. I certify that the repair and/or alteration made to the unit(s) identified in item 4 above and described on the reverse or attachments hereto have been made in accordance with the requirements of Part 43 of the U.S. Federal Aviation Regulations and that the information furnished herein is true and correct to the best of my knowledge.					
DATE 6-26-81			SIGNATURE OF AUTHORIZED INDIVIDUAL Rodney L. Lee		
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 <input checked="" type="checkbox"/> APPROVED <input type="checkbox"/> REJECTED					
BY	FAA FLT. STANDARDS INSPECTOR	MANUFACTURER	INSPECTION AUTHORIZATION OTHER (Specify)		
	FAA DESIGNEE	<input checked="" type="checkbox"/> REPAIR STATION			
DATE OF APPROVAL OR REJECTION 6-26-81		CERTIFICATE OR DESIGNATION NO. 505-4	SIGNATURE OF AUTHORIZED INDIVIDUAL Rodney L. Lee		

P-5P-81

202-A

# NOTICE

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

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

Installed the following Equipment:

IN RADIO PANELS:

P-5P-81 202-A AUDIO Panel

KNS81 RNAV

KX165 NAV/COM

KR29 ADF

KTM6A TRANSPONDER

KRA 10 RADAR ALT.

Ryon WX10 PANEL UNIT.

INSTALL Equipment underneath Rear Seat

KR22 MKR BOW RECEIVER

WX10 Remote Unit

KN63 DME Remote

INSTALL BETWEEN PILOT & COPILOTS SEAT

KAI18 HANDSET

KY196 COM

KN63 DME Panel

KI206 IND

KI229 RMI

KR22 KT96 Telephone

EC100 STEREO SYSTEM

QFS1001 FUEL Management

(2) ECG89 ISOLATION AMPS

KR29 VOLTAGE Converter.

KAI18

INSTALL KFC 200 Cutdown Pilot System per. STL - SA 1487CE

INCLUDES following equipment.

KE 585A HSI

RG 102A GYRO

KA 51A SLAVING A/C.

KMT112 FLUX DETECTOR

KC290 MODE CONTROLLER

KE 256 Flight Director

KA 285 ANNUNCIATOR

KS 270 Pitch Servo

KS 271 Roll Servo

KS 272 Trim Servo

INSTALL KAS 297 Altitude Selector per STL - SA 1552CE-D

INCLUDES KAS 297 Altitude Selector - KEA 346 Encoding Altimeter

INSTALL 3" Altimeter - Removed STD Altimeter

INSTALLS miniature Vacuum Gauge - Removed STD Vacuum Gauge

ALL WORK performed per manufacture installation instructions

and in accordance with A.C. 43.13 1 & 2. TRANSPONDER tested per FAR 91.177.

ENCODING Altimeter tested per FAR 91.36(b). STATIC SYSTEM

TESTED per FAR 91.170

Weight and Balance, Equipment List, and Aircraft Records updated this date.

END

☐ ADDITIONAL SHEETS ARE ATTACHED

DEPARTMENT OF TRANSPORTATION FEDERAL AVIATION ADMINISTRATION <b>MAJOR REPAIR AND ALTERATION</b> (Airframe, Powerplant, Propeller, or Appliance)				Form Approved Budget Bureau No. 04-R060.1 FOR FAA USE ONLY OFFICE IDENTIFICATION NM-FSDO-61	
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.					
1. AIRCRAFT	MAKE Cessna	MODEL P-210			
	SERIAL NO. P21000635	NATIONALITY AND REGISTRATION MARK N-5083W			
2. OWNER	NAME (As shown on registration certificate) Centuion Data Services, Inc.		ADDRESS (As shown on registration certificate) 3628 North Linoak Suite 103 Claremont, CA 91711		
	3. FOR FAA USE ONLY				
4. UNIT IDENTIFICATION					5. TYPE
UNIT	MAKE	MODEL	SERIAL NO.	REPAIR	ALTERATION
AIRFRAME	***** (As described in item 1 above) *****				X
POWERPLANT					
PROPELLER					
APPLIANCE	TYPE				
	MANUFACTURER				
6. CONFORMITY STATEMENT					
A. AGENCY'S NAME AND ADDRESS			B. KIND OF AGENCY		C. CERTIFICATE NO.
William Selby Allan 1520 26th Ave. NW Gig Harbor, WA 98335			<input checked="" type="checkbox"/> U.S. CERTIFICATED MECHANIC		241-76-2132
			<input type="checkbox"/> FOREIGN CERTIFICATED MECHANIC		
			<input type="checkbox"/> CERTIFICATED REPAIR STATION		
			<input type="checkbox"/> MANUFACTURER		
D. I certify that the repair and/or alteration made to the unit(s) identified in item 4 above and described on the reverse or attachments hereto have been made in accordance with the requirements of Part 43 of the U.S. Federal Aviation Regulations and that the information furnished herein is true and correct to the best of my knowledge.					
DATE 7-19-84			SIGNATURE OF AUTHORIZED INDIVIDUAL <i>William Selby Allan</i>		
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 <input checked="" type="checkbox"/> APPROVED <input type="checkbox"/> REJECTED					
BY	FAA FLT. STANDARDS INSPECTOR	MANUFACTURER	<input checked="" type="checkbox"/>	OTHER (Specify)	
	FAA DESIGNEE	REPAIR STATION	<input type="checkbox"/>		
DATE OF APPROVAL OR REJECTION 7-19-84		CERTIFICATE OR DESIGNATION NO. 241-76-2132		SIGNATURE OF AUTHORIZED INDIVIDUAL <i>William Selby Allan</i>	

### NOTICE

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

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

Installation of Precise Flight, Inc. DRC Speedbrake system in accordance with installation manual report no. C-126, dated May 10, 1984 or later FAA approved revisions per STC SA2602NM. Weight and balance revised accordingly. ---End---

☐ ADDITIONAL SHEETS ARE ATTACHED



DEPARTMENT OF TRANSPORTATION FEDERAL AVIATION ADMINISTRATION				Form Approved Budget Bureau No. 04-R060.1	
<b>MAJOR REPAIR AND ALTERATION</b> (Airframe, Powerplant, Propeller, or Appliance)				FOR FAA USE ONLY	
				OFFICE IDENTIFICATION NM-FSDO-61	
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.					
1. AIRCRAFT	MAKE Cessna		MODEL P-210		
	SERIAL NO. P21000635		NATIONALITY AND REGISTRATION MARK N-5083W		
2. OWNER	NAME (As shown on registration certificate) Centurion Data Services, Inc.		ADDRESS (As shown on registration certificate) 3628 North Lynoak Suite 103 Claremont, CA 91711		
	3. FOR FAA USE ONLY				
4. UNIT IDENTIFICATION					
UNIT	MAKE	MODEL	SERIAL NO.	5. TYPE	
AIRFRAME	***** (As described in item 1 above) *****			REPAIR	ALTERATION
POWERPLANT					
PROPELLER					
APPLIANCE	TYPE				
	MANUFACTURER				
6. CONFORMITY STATEMENT					
A. AGENCY'S NAME AND ADDRESS			B. KIND OF AGENCY		C. CERTIFICATE NO.
Desmond Caravella 1520 26th Ave. NW Gig Harbor, WA 98335			<input checked="" type="checkbox"/> U.S. CERTIFICATED MECHANIC		565-31-0885
			<input type="checkbox"/> FOREIGN CERTIFICATED MECHANIC		
			<input type="checkbox"/> CERTIFICATED REPAIR STATION		
			<input type="checkbox"/> MANUFACTURER		
D. I certify that the repair and/or alteration made to the unit(s) identified in item 4 above and described on the reverse or attachments hereto have been made in accordance with the requirements of Part 43 of the U.S. Federal Aviation Regulations and that the information furnished herein is true and correct to the best of my knowledge.					
DATE 7-13-84			SIGNATURE OF AUTHORIZED INDIVIDUAL <i>Desmond Caravella</i>		
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 <input checked="" type="checkbox"/> APPROVED <input type="checkbox"/> REJECTED					
BY	FAA FLT. STANDARDS INSPECTOR	MANUFACTURER	<input checked="" type="checkbox"/>	OTHER (Specify)	
	FAA DESIGNEE	REPAIR STATION	<input type="checkbox"/>		
DATE OF APPROVAL OR REJECTION 7-13-84		CERTIFICATE OR DESIGNATION NO. 565-31-0885		SIGNATURE OF AUTHORIZED INDIVIDUAL <i>Desmond Caravella</i>	

### 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.)

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 accordingly. ---End---

☐ ADDITIONAL SHEETS ARE ATTACHED

DEPARTMENT OF TRANSPORTATION FEDERAL AVIATION ADMINISTRATION  <b>MAJOR REPAIR AND ALTERATION</b> (Airframe, Powerplant, Propeller, or Appliance)				Form Approved Budget Bureau No. 04-R060.1 FOR FAA USE ONLY OFFICE IDENTIFICATION NM-FSDO-61	
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.					
1. AIRCRAFT	MAKE Cessna			MODEL P-210	
	SERIAL NO. P21000635			NATIONALITY AND REGISTRATION MARK N-5083W	
2. OWNER	NAME (As shown on registration certificate) Centurion Data Services, Inc.			ADDRESS (As shown on registration certificate) 3628 North Lenoak Suite 103 Claremont, CA 91711	
	3. FOR FAA USE ONLY				
4. UNIT IDENTIFICATION					
UNIT	MAKE	MODEL	SERIAL NO.	5. TYPE	
AIRFRAME	***** (As described in item 1 above) *****			REPAIR	ALTERATION
POWERPLANT	Continental	TSIO-520-P	513662		X
PROPELLER					
APPLIANCE	TYPE				
	MANUFACTURER				
6. CONFORMITY STATEMENT					
A. AGENCY'S NAME AND ADDRESS			B. KIND OF AGENCY		C. CERTIFICATE NO.
Desmond Caravella 1520 26th Ave. NW Gig Harbor, WA 98335			<input checked="" type="checkbox"/> U.S. CERTIFICATED MECHANIC		565-31-0885
			<input type="checkbox"/> FOREIGN CERTIFICATED MECHANIC		
			<input type="checkbox"/> CERTIFICATED REPAIR STATION		
			<input type="checkbox"/> MANUFACTURER		
D. I certify that the repair and/or alteration made to the unit(s) identified in item 4 above and described on the reverse or attachments hereto have been made in accordance with the requirements of Part 43 of the U.S. Federal Aviation Regulations and that the information furnished herein is true and correct to the best of my knowledge.					
DATE 7-13-84			SIGNATURE OF AUTHORIZED INDIVIDUAL <i>Desmond Caravella</i>		
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 <input checked="" type="checkbox"/> APPROVED <input type="checkbox"/> REJECTED					
BY	FAA FLT. STANDARDS INSPECTOR	MANUFACTURER	<input checked="" type="checkbox"/>	INSPECTION AUTHORIZATION	
	FAA DESIGNEE	REPAIR STATION	<input type="checkbox"/>	CANADIAN DEPARTMENT OF TRANSPORT INSPECTOR OF AIRCRAFT	
DATE OF APPROVAL OR REJECTION 7-13-84		CERTIFICATE OR DESIGNATION NO. 565-31-0885		SIGNATURE OF AUTHORIZED INDIVIDUAL <i>Desmond Caravella</i>	

**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.)

Installation of a magneto pressurization kit assembly and associated system for Bendix models S6RN-1201 and -1205 and SLICK models 662 or 680 in accordance with Turboplus, Inc. installation instruction drawing no. 16000 dated April 25, 1984 or later FAA approved revisions per STC SE2393NM. Weight and balance change negligible. ---End---

☐ ADDITIONAL SHEETS ARE ATTACHED

② 115/87

Form Approved  
Budget Bureau No. 04-R0058

DEPARTMENT OF TRANSPORTATION FEDERAL AVIATION ADMINISTRATION APPLICATION FOR AIRWORTHINESS CERTIFICATE				INSTRUCTIONS—Print or type. Do not write in shaded areas; these are for FAA use only. Submit original only to an authorized FAA Representative. If additional space is required, use an attachment. For special flight permits complete Sections II and VI or VII as applicable.				
I. AIRCRAFT DESCRIPTION	1. REGISTRATION MARK N5083W	2. AIRCRAFT BUILDER'S NAME (make) Cessna	3. AIRCRAFT MODEL DESIGNATION P210N	4. YR. MFG. 1980	FAA CODING 2073454			
	5. AIRCRAFT SERIAL NO. P2100635	6. ENGINE BUILDER'S NAME (make) Continental	7. ENGINE MODEL DESIGNATION TS10-520-P		17040			
	8. NUMBER OF ENGINES One	9. PROPELLER BUILDER'S NAME (make) McCauley	10. PROPELLER MODEL DESIGNATION D3A34C402/90DFA-10		11. AIRCRAFT IS IMPORT			
II. CERTIFICATION REQUESTED	APPLICATION IS HEREBY MADE FOR: (Check applicable items)							
	A. <input checked="" type="checkbox"/> STANDARD AIRWORTHINESS CERT. (Indicate category) <input checked="" type="checkbox"/> NORMAL <input type="checkbox"/> UTILITY <input type="checkbox"/> ACROBATIC <input type="checkbox"/> TRANSPORT <input type="checkbox"/> GLIDER <input type="checkbox"/> BALLOON							
	B. SPECIAL AIRWORTHINESS CERTIFICATE (Check appropriate items)							
	2. LIMITED							
	5. PROVISIONAL (Indicate class)							
	3. RESTRICTED (Indicate operation(s) to be conducted)							
	4. EXPERIMENTAL (Indicate operation(s) to be conducted)							
	8. SPECIAL FLIGHT PERMIT (Indicate operation to be conducted then complete Section VI or VII as applicable on reverse side)							
	1. CLASS I							
	2. CLASS II							
III. OWNER'S CERTIFICATION	A. REGISTERED OWNER (As shown on Certificate of Aircraft Registration) IF DEALER, CHECK HERE <input checked="" type="checkbox"/>							
	NAME Cessna Aircraft Company			ADDRESS 5800 East Pawnee Road Wichita, Kansas 67201				
	B. AIRCRAFT CERTIFICATION BASIS (Check applicable blocks and complete items as indicated)							
	X. AIRCRAFT SPECIFICATION OR TYPE CERTIFICATION DATA SHEET (Give No. and Revision No.) 3A21 Rev. 33			X. AIRWORTHINESS DIRECTIVES (Check if all applicable AD's complied with and give latest ID No.) 80-25				
	AIRCRAFT LISTING (Give page No.)			SUPPLEMENTAL TYPE CERTIFICATE (List number of each STC incorporated)				
	C. AIRCRAFT OPERATION AND MAINTENANCE RECORDS							
	X. CHECK IF RECORDS IN COMPLIANCE WITH FAR 91.173			TOTAL AIRFRAME HOURS— 3.4		3. EXPERIMENTAL ONLY—Enter hours flown since last certificate issued or renewed		
	D. CERTIFICATION—I hereby certify that I am the owner (or his agent) of the aircraft described above; that the aircraft is registered with the Federal Aviation Administration in accordance with Section 301 of the Federal Aviation Act of 1958, and applicable Federal Aviation Regulations; and that the aircraft has been inspected and is airworthy and eligible for the airworthiness certificate requested.							
	DATE OF APPLICATION 12-22-80			NAME AND TITLE (Print or type) Gen. Mgr. William A. Boettger, Pawnee Div.		SIGNATURE William A. Boettger		
	IV. INSPECTION AGENCY VERIFICATION	A. THE AIRCRAFT DESCRIBED ABOVE HAS BEEN INSPECTED AND FOUND AIRWORTHY BY: (Complete this section only if FAR 21.187(d) applies)						
2. FAR PART 121 OR 127 CERTIFICATE HOLDER (Give Certificate No.)		3. CERTIFICATED MECHANIC (Give Certificate No.)		4. CERTIFICATED REPAIR STATION (Give Certificate No.)				
5. AIRCRAFT MANUFACTURER (Give Name of Firm)								
DATE		TITLE		SIGNATURE				
V. FAA REPRESENTATIVE CERTIFICATION	(Check ALL applicable blocks) I find that the aircraft described in Section I or VII meets the requirements for: <input checked="" type="checkbox"/> The certification requested, or <input type="checkbox"/> Amendment or modification of its current airworthiness certificate. Inspection for a special flight permit under Section VII was conducted by: <input type="checkbox"/> FAA Inspector; certificate holder under <input type="checkbox"/> FAR 65, <input type="checkbox"/> FAR 121 or 127, or <input type="checkbox"/> FAR 145.							
	DATE 12-22-80		DISTRICT OFFICE ICT EMDO 3-0-43		DESIGNER'S SIGNATURE AND NO. Executive Engineer Cessna Aircraft Co., Pawnee Div. Delegation Order No. 100-1, CE-1		FAA INSPECTOR'S SIGNATURE	
	By: <i>[Signature]</i> John P. Peary							

VI. PRODUCTION FLIGHT TESTING	
A. MANUFACTURER	
NAME	ADDRESS
B. PRODUCTION BASIS (Check applicable item)	
<input type="checkbox"/> PRODUCTION CERTIFICATE (Give production certificate number)	
<input type="checkbox"/> TYPE CERTIFICATE ONLY	
<input type="checkbox"/> APPROVED PRODUCTION INSPECTION SYSTEM	
C. GIVE QUANTITY OF CERTIFICATES REQUIRED FOR OPERATING NEEDS:	
DATE OF APPLICATION	SIGNATURE
NAME AND TITLE (Print or type)	
A. DESCRIPTION OF AIRCRAFT	
REGISTERED OWNER	ADDRESS
BUILDER (Make)	MODEL
SERIAL NUMBER	REGISTRATION MARK
B. DESCRIPTION OF FLIGHT	
FROM	TO
VIA	DEPARTURE DATE
	DURATION
C. CREW REQUIRED TO OPERATE THE AIRCRAFT AND ITS EQUIPMENT	
<input type="checkbox"/> PILOT	<input type="checkbox"/> CO-PILOT
<input type="checkbox"/> NAVIGATOR	<input type="checkbox"/> OTHER (Specify)
D. THE AIRCRAFT DOES NOT MEET THE APPLICABLE AIRWORTHINESS REQUIREMENTS AS FOLLOWS:	
E. THE FOLLOWING RESTRICTIONS ARE CONSIDERED NECESSARY FOR SAFE OPERATION (Use attachment if necessary)	
F. CERTIFICATION—I hereby certify that I am the registered owner (or his agent) of the aircraft described above; that the aircraft is registered with the Federal Aviation Administration in accordance with Section 501 of the Federal Aviation Act of 1958, and applicable Federal Aviation Regulations; and that the aircraft has been inspected and is airworthy for the flight described.	
DATE	SIGNATURE
NAME AND TITLE (Print or type)	
VIII. AIRWORTHINESS DOCUMENTATION (FAA use only)	
<input checked="" type="checkbox"/> A. Operating Limitations and Markings in Compliance with FAR 91.31 as Applicable	G. Statement of Conformity, FAA Form 317 (Attach when required)
<input type="checkbox"/> B. Current Operating Limitations Attached	H. Foreign Airworthiness Certification for Import Aircraft (Attach when required)
<input type="checkbox"/> C. Data, Drawings, Photographs, etc. (Attach when required)	I. Previous Airworthiness Certificate Issued in Accordance with FAR _____ CAR _____ (Original attached)
<input checked="" type="checkbox"/> D. Current Weight and Balance Information Available in Aircraft	J. Current Airworthiness Certificate Issued in Accordance with FAR 21.183 (a) _____ (Copy attached)
<input type="checkbox"/> E. Major Repair and Alteration, FAA 337 (Attach when required)	
<input checked="" type="checkbox"/> F. This Inspection Recorded in Aircraft Records	

UNITED STATES OF AMERICA DEPARTMENT OF TRANSPORTATION - FEDERAL AVIATION ADMINISTRATION STANDARD AIRWORTHINESS CERTIFICATE			
1. NATIONALITY AND REGISTRATION MARKS	2. MANUFACTURER AND MODEL	3. AIRCRAFT SERIAL NUMBER	4. CATEGORY
N5083W	Cessna P210N	P21000635	Normal
5. AUTHORITY AND BASIS FOR ISSUANCE This airworthiness certificate is issued pursuant to the Federal Aviation Act of 1958 and certifies that, as of the date of issuance, the aircraft to which issued has been inspected and found to conform to the type certificate therefor, to be in condition for safe operation, and has been shown to meet the requirements of the applicable comprehensive and detailed airworthiness code as provided by Annex 8 to the Convention on International Civil Aviation, except as noted herein. Exceptions: None			
6. TERMS AND CONDITIONS Unless sooner surrendered, suspended, revoked, or a termination date is otherwise established by the Administrator, this airworthiness certificate is effective as long as the maintenance, preventive maintenance, and alterations are performed in accordance with Parts 21, 43, and 91 of the Federal Aviation Regulations, as appropriate, and the aircraft is registered in the United States.			
DATE OF ISSUANCE	FAA REPRESENTATIVE: Cessna Aircraft Co., Tulsa, Oklahoma Deputy Chief, Inspection Branch, CE-1		DESIGNATION NUMBER
12-22-80			DOA-PC4
Any alteration, reproduction, or misuse of this certificate may be punishable by a fine not exceeding \$1,000, or imprisonment not exceeding 3 years, or both. THIS CERTIFICATE MUST BE DISPLAYED IN THE AIRCRAFT IN ACCORDANCE WITH APPLICABLE FEDERAL AVIATION REGULATION.			
FAA Form 8100-2 (7-67) FORMERLY FAA FORM 1362		U.S. Government Printing Office - 1979-075-002	



FAA AIRCRAFT REGISTRY  
CAMERA NO. 2 DATE: 4-29-85

FAA AIRCRAFT REGISTRY  
CAMERA NO. 2 DATE: 4-29-85

1. Name of Aircraft: \_\_\_\_\_

2. Registration Number: \_\_\_\_\_

3. Make and Model: \_\_\_\_\_

4. Year: \_\_\_\_\_

5. Serial Number: \_\_\_\_\_

6. Owner Name: \_\_\_\_\_

7. Owner Address: \_\_\_\_\_

8. Owner City: \_\_\_\_\_ State: \_\_\_\_\_ Zip: \_\_\_\_\_

9. Date of Purchase: \_\_\_\_\_

10. Date of Registration: \_\_\_\_\_

11. Date of Inspection: \_\_\_\_\_

12. Inspector Name: \_\_\_\_\_

13. Inspector Title: \_\_\_\_\_

14. Inspector Address: \_\_\_\_\_

15. Inspector City: \_\_\_\_\_ State: \_\_\_\_\_ Zip: \_\_\_\_\_

16. Date of Issuance: \_\_\_\_\_

17. Date of Expiration: \_\_\_\_\_

18. Date of Renewal: \_\_\_\_\_

19. Date of Transfer: \_\_\_\_\_

20. Date of Sale: \_\_\_\_\_

21. Date of Destruction: \_\_\_\_\_

22. Date of Retirement: \_\_\_\_\_

23. Date of Reentry: \_\_\_\_\_

24. Date of Reclassification: \_\_\_\_\_

25. Date of Reinspection: \_\_\_\_\_

26. Date of Reissuance: \_\_\_\_\_

27. Date of Revalidation: \_\_\_\_\_

28. Date of Reauthorization: \_\_\_\_\_

29. Date of Reapproval: \_\_\_\_\_

30. Date of Reacceptance: \_\_\_\_\_

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FAA

OKC m.c.

DEPT. OF TRANSPORTATION FEDERAL AVIATION ADMINISTRATION				Form Approved Budget Bureau No. 04-R060.1	
<b>MAJOR REPAIR AND ALTERATION</b> (Airframe, Powerplant, Propeller, or Appliance)				FOR FAA USE ONLY OFFICE IDENTIFICATION WRFS DO-62S	
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.					
1. AIRCRAFT	MAKE <b>Cessna</b>		MODEL <b>P210N</b>		
	SERIAL NO. <b>210000635</b>		NATIONALITY AND REGISTRATION MARK <b>N5083W</b>		
2. OWNER	NAME (As shown on registration certificate) <b>Cessna Finance Corporation</b>		ADDRESS (As shown on registration certificate) <b>Wichita, Kansas 67201</b>		
	3. FOR FAA USE ONLY				
4. UNIT IDENTIFICATION					
UNIT	MAKE	MODEL	SERIAL NO.	5. TYPE	
AIRFRAME	..... (As described in item 1 above) .....			REPAIR	ALTERATION
POWERPLANT					
PROPELLER					
APPLIANCE	TYPE			RECEIVED, FAA OCT 01 1982 WE-GADO-6	
	MANUFACTURER				
6. CONFORMITY STATEMENT					
A. AGENCY'S NAME AND ADDRESS			B. KIND OF AGENCY		C. CERTIFICATE NO.
<b>Gunnell Aviation, Inc.</b> 3000 Airport Ave. Santa Monica, CA. 90405			U.S. CERTIFICATED MECHANIC		<b>RS4406</b> <b>Airframe 1 &amp; 3</b>
			FOREIGN CERTIFICATED MECHANIC		
			<input checked="" type="checkbox"/> CERTIFICATED REPAIR STATION		
			MANUFACTURER		
D. I certify that the repair and/or alteration made to the unit(s) identified in item 4 above and described on the reverse or attachments hereto have been made in accordance with the requirements of Part 43 of the U.S. Federal Aviation Regulations and that the information furnished herein is true and correct to the best of my knowledge.					
DATE <b>9/28/82</b>			SIGNATURE OF AUTHORIZED INDIVIDUAL <i>Lawrence J. Larross Jr.</i>		
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 <input checked="" type="checkbox"/> APPROVED <input type="checkbox"/> REJECTED					
BY	FAA FLT. STANDARDS INSPECTOR	MANUFACTURER	INSPECTION AUTHORIZATION		OTHER (Specify)
	FAA DESIGNEE	<input checked="" type="checkbox"/> REPAIR STATION	CANADIAN DEPARTMENT OF TRANSPORT INSPECTOR OF AIRCRAFT		
DATE OF APPROVAL OR REJECTION <b>9/28/82</b>		CERTIFICATE OR DESIGNATION NO. <b>RS4406</b>		SIGNATURE OF AUTHORIZED INDIVIDUAL <i>[Signature]</i>	

DATE: 4-29-85

### NOTICE

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

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

Installed Aero Safe standby electric vacuum system per STC SA4626 SW  
Installation made in accordance with manufacturers instructions  
and AC 43.13-1 chapters 5 and 11.  
Weight and balance and equipment list revised this date.

-----nothing follows-----

☐ ADDITIONAL SHEETS ARE ATTACHED