



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 N6195B	Serial No. 21062705	
	Make CESSNA	Model T210M	Series
2. Owner	Name (As shown on registration certificate) GATES GROUP OF JOHNSTON COUNTY LLC		Address (As shown on registration certificate) 300 CITATION LANE
			City SMITHFIELD State NC
			Zip 27577-8738 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)	21062705
<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 BEEGLES AIRCRAFT SERVICE LLC		U. S. Certified Mechanic	
Address 835 AIRPORT ROAD		Manufacturer	
City GREELEY State CO		Foreign Certified Mechanic	
Zip 80631 Country USA		C. Certificate No.	
		<input checked="" type="checkbox"/> Certified Repair Station <input type="checkbox"/> Certified Maintenance Organization	
		BX4R092M	

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 <i>[Signature]</i> 2/21/2022
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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	Persons Approved by Canadian Department of Transport
	FAA Designee	Repair Station	Inspection Authorization	
	<input checked="" type="checkbox"/>			Other (Specify)

Certificate or Designation No. BX4R092M	Signature/Date of Authorized Individual <i>[Signature]</i> 2/21/2022
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NOTICE

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

8. Description of Work Accomplished

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

N6195B

02-21-2022

Nationality and Registration Mark

Date

1. Installed Sierra Industries, Ltd. STC# SA5737SW by removing main landing gear doors and associated hydraulic system and cover the wheel wells with a fairing in accordance with Installation Instructions dated September 12, 1984, or later FAA approved revision.
2. Revised weight and balance dated 02-21-2022.

END

☐ Additional Sheets Are Attached



United States of America
Department of Transportation
Federal Aviation Administration

Supplemental Type Certificate

Reissued on July 14, 2017 to supersede the original STC, which has been lost or misplaced.

Number: SA5737SW

This certificate issued to: Sierra Industries, Ltd.
122 Howard Langford Drive
Uvalde, TX 78801

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 3 of the Civil Air Regulations.

Original Product - Type Certificate Number: 3A21

Make: Cessna

Model: 210K, 210L, 210M, T210K, T210L,
T210M, P210N

Description of Type Design Change:

Remove main landing gear doors and associated hydraulic system, and cover the wheel wells with a fairing in accordance with Installation Instructions dated September 12, 1984, or later FAA approved revision.

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

Date of Application: April 05, 1984

Date of Issuance: June 26, 1984

Date Reissued: July 21, 2005; July 14, 2017

Date Amended: December 19, 1984 Rev. 1

SIERRA INDUSTRIES, INC.
THIS S.T.C. IS ISSUED FOR THE
FOLLOWING AIRCRAFT:

MAKE: CESSNA MODEL: T210M

REG: N6195B S/N: 21062705

C.O. OR W.O. NO.: _____

ONLY THE ORIGINAL ISSUE RED INK STAMPED

T.C. COPY AS ISSUED BY SIERRA

By Direction of the Administrator

Signature

Title James A. Grigg

Manager, Fort Worth Aircraft Certification Office,
Southwest Region

For alteration of this certificate is punishable by a fine not exceeding \$1,000, or imprisonment not exceeding 3 years, or both. This certificate may be transferred or made available to third persons only 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).

SIERRA INDUSTRIES, LTD.
Certificate of Permission

This Certificate of Permission, issued for:


Supplemental Type Certificate No.: SA5737SW
Description: Gear Door Kit
Kit Serial No. (If Applicable): N/A

provides written evidence that Beegles Aircraft Service is hereby authorized to use STC No. SA5737SW, on a one-time basis, to modify Cessna Model T210M, Serial Number 21062705. This Certificate of Permission shall not be assigned or sub-licensed. The use of this STC on any other aircraft is unauthorized and is a civil and criminal misappropriation of the property of Sierra Industries, Ltd.

The installer of this Supplemental Type Certificate is ultimately responsible for the final conformity and return to service of the aircraft after any maintenance, preventative maintenance, rebuilding, or alteration performed as provided in the FAR's. The installer must determine, and is responsible for; compatibility of this Supplemental Type Certificate with other previously approved modifications.

Sierra Industries, Ltd. maintains a permanent record of all authorizations that have been issued. For answers to any questions regarding use of this STC for a specific aircraft, please contact Sierra Industries, Ltd.

Date of issuance: 09 Dec 2021


Sierra Industries, Ltd.
Authorized Representative

NO DOORS MODIFICATION **FOR** **CESSNA 210**

Sierra
I N D U S T R I E S ,
I N C.

INSTALLATION MANUAL **S.T.C. SA5737SW**

SIERRA INDUSTRIES, INC.
P.O. BOX 5184 UVALDE, TEXAS 78802-5184
TEL 210 - 278 - 4381 FAX 210 - 278 - 7649

IMPORTANT DOCUMENTS

KEEP WITH AIRCRAFT RECORDS

PAGE 1 OF 3


WORK ORDER # 13,103

WORK ORDER

BEEGLES AIRCRAFT SERVICE LLC
635 AIRPORT ROAD
GREELEY, CO 80631
REPAIR STATION BX4R092M

The aircraft, airframe, aircraft engine, propeller or appliance identified below was repaired and inspected in accordance with current regulations of the Federal Aviation Administration and is approved for return to service.

Pertinent details of the repair are on file at this Repair Station under Work Order:

NO. 13,103 DATE 7-Mar-2022 SIGNED  FOR REP. STATION

CUSTOMER Gates Group of Johnston County LLC REGISTRATION NO. N6195B

MAKE Cessna MODEL T210M S/N 21062705 TACH READ 4374.6
AFTT 4374.6

ITEM NO.

1. Disassembled aircraft:

- A. Removed seats and interior as required for access.
- B. Removed aft main gear doors and strut doors.
- C. Defueled aircraft.
- D. Removed fuel boost pump, fuel header tanks, and fuel selector valve.
- E. Removed rudder pedals.
- F. Removed cowl flaps.

2. Repaired fuselage:

- A. Removed forward, center, aft belly skins.
- B. Replaced RH keel angle pn 1211309-2 @ station 27.00 - 67.00.
- C. Replaced LH keel angle pn 1211309-1 @ station 27.00 - 67.00.
- D. Repaired/reinforced RH longitudinal bulkhead pn 1211308-2 @ station 27.00 - 44.00.
- E. Repaired lower LH bulkhead pn 1211305-1 by installing doubler repair @ station 55.00.
- F. Repaired keel bulkhead pn 1213194-25 @ station 18.00- 27.00.
- G. Replaced forward doorpost bulkhead pn 1213407-8 @ station 27.00.
- H. Replaced RH bulkhead reinforcement pn 1213409-2 @ station 27.00.
- I. Replaced LH bulkhead reinforcement pn 1213409-13 @ station 27.00.
- J. Replaced lower angle on LH longitudinal bulkhead pn 1211308-1 @ station 27.00 - 67.00.
- K. Replaced LH angle pn 1213404-1 @ station 18.00 - 27.00.

- L. Installed doubler repair on pn center bulkhead pn 1210412-29 @ station 44.00.
- M. Installed doubler repair on LH bulkhead pn 1210412-31 @ station 44.00.
- N. Installed doubler repair on center bulkhead pn 1211304-2 @ station 55.00.
- O. Replaced aft belly skin (between wheel wells) pn 1210505-11 @ station 67.00 - 120.00.
- P. Replaced aft gusset pn 1211329-3 @ station 55.00 - 77.00.
- Q. Replaced aft belly skin pn 1210501-3 @ station 55.00 - 67.00.
- R. Replaced forward doubler pn 1213461-1 @ station 18.00 - 35.00.
- S. Replaced main belly skin pn 1210501-5 @ station 27.00 - 55.00.
- T. Replaced forward belly skin pn 1213401-6 @ station 0.00 - 27.00.
- U. Replaced emergency gear extension handle guide pn 1211406-1 @ station 40.00.
- V. Repaired LH cowl flap pn 1213261-211 by replacing outer skin and inboard baffle pn 1213470-9.
- W. Repaired RH cowl flap pn 1213261-212 by replacing outer skin and inboard baffle pn 1213470-10.
- X. Replaced RH brake line pn 1280506-106.

3. Reassembled aircraft:

- A. Reinstalled rudder and elevator cable pulleys in belly removed for access.
- B. Reinstalled emergency gear handle assembly.
- C. Reinstalled transponder antenna CI-105.
- D. Reinstalled fuel selector and plumbing as removed.
- E. Replaced drain fitting on electric fuel boost pump pn 1216018-1 and reinstalled fuel pump.
- F. Reinstalled fuel header tanks.
- G. Replaced sump drains in header tanks (2) pn SA82.
- H. Reinstalled rudder pedals with new attach hardware.
- I. Bled brake system and performed operational check.
- J. Fueled aircraft and leak checked.
- K. Replaced fuel area ventilation scat hose.
- L. Reinstalled floorboard panels, interior, and seats as removed.
- M. Installed 2 missing seat stops with McFarlane seat stop kit # 1.
- N. Installed 2 missing seat belt attach bushings pn NAS43HT4-10.
- O. Reinstalled aft nose gear doors and cowl flaps after painting and performed operational check.

4. Landing gear:

- A. Replaced bent nose gear steering stop pin (dowel) pn MS16555-56.
- B. Replaced missing LH main gear actuator cap pn 1281021-3.
- C. Replaced retract step cable pn 1211504-1, clevis pn MS21252-2LS, & turnbuckle pn MS21251-2S.
- D. Installed STC # SA5737SW issued to Sierra Industries, LTD by removal of the main landing gear doors and associated hydraulic system, and cover the wheel well with fairings in accordance with Installation Instructions dated September 12, 1984, reissued Feb 1993. See FAA Form 337 and revised weight and balance dated 2/21/2022.
- E. Jacked aircraft, serviced power pack, serviced accumulator, and performed several gear retraction and extension cycles, normal and emergency. Checked gear warning horn and squat switch for proper operation. Rigged retract step and safetied.

5. Painting:

- A. Refinished lower fuselage as required to match using Nason Blue CG561.
- B. Refinished cowl flaps.

6. Revised weight and balance data: Empty Weight 2433.8 lbs. EWCG 39.29 inches Moment 95627.19 in/lbs

All work completed I.A.W. Cessna Manuals D2057-3-13 TR18, dated 29 Oct 21 & P637-12 TR 2, dated 3 Apr 95.

Except as stated above, no other work, inspection, corrective action or determination of airworthiness has been completed at this time, limited to work performed.



635 AIRPORT ROAD - WELD COUNTY AIRPORT - GREELEY, COLORADO 80631

WEIGHT & BALANCE AND EQUIPMENT LIST REVISION

MAKE Cessna MODEL T210M S/N 21062705

REGISTRATION N6195B TOTAL HOURS 4374.6 DATE 2/21/2022

PREVIOUS DATA

EMPTY WEIGHT	C.G.	MOMENT
2453.0 lbs.	39.90 inches	97873.59 in/lbs.

DESCRIPTION	WEIGHT	ARM	MOMENT
Installed STC SA5737SW main gear door removal modification	-19.2 lbs.	117.0 inches	- 2246.4 in/lbs.
TOTALS	2433.8 lbs	39.29 inches	95627.19 in/lbs.

GROSS WEIGHT = 3800.0 lbs.

NEW EMPTY WEIGHT = 2433.8 lbs.

NEW USEFUL LOAD = 1366.2 lbs.

NEW EMPTY CG = 39.29 inches

NEW EMPTY MOMENT = 95627.19 in/lbs

Approved By [Signature] C.R.S. BX4R092M

Page:	19
B.A.S. Form #	16
Revision Date:	8/12/2019
Original Issue:	4/1/2018

IMPORTANT DOCUMENTS

KEEP WITH AIRCRAFT RECORDS

WORK ORDER

BEEGLES AIRCRAFT SERVICE, INC.

635 AIRPORT ROAD
GREELEY, CO 80631
REPAIR STATION BX4R092M

PAGE ¹ OF ¹
WORK ORDER# 11,789

The aircraft, airframe, aircraft engine, propeller or appliance identified below was repaired and inspected in accordance with current regulations of the Federal Aviation Administration and is approved for return to service.

Pertinent details of the repair are on file at this Repair Station under Work Order:

NO. 11,789 DATE 07-23-2012 SIGNED  FOR REP. STATION

CUSTOMER Arapahoe Aero REGISTRATION NO. N6195B

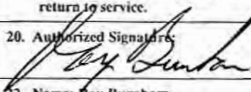
MAKE Cessna MODEL T210M S/N 21062705 TACH READ NA

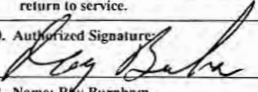
ITEM NO.

1. Repaired LH elevator assembly pn 1234633-21:
 - A. Replaced tip rib pn 1234637-1.
 - B. Replaced trailing edge skin pn 1234633-15.
 - C. Replaced tip pn 1234640-1-791.
 - D. Repainted to match with Jet Glo Matterhorn White # 570-535 and Orange # CG1392IB.
 - E. Performed painted static balance check.
 - F. FAA 8130-3 Form issued.
2. Repaired RH elevator assembly pn 1234633-24:
 - A. Replaced inboard trailing edge skin pn 1234633-4.
 - B. Replaced outboard trailing edge skin pn 1234620-16.
 - C. Replaced tip pn 1234640-2.
 - D. Repainted to match with Jet Glo Matterhorn White # 570-535 and Orange # CG1392IB.
 - E. Performed painted static balance check.
 - F. FAA 8130-3 Form issued.


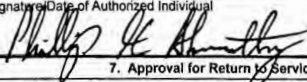
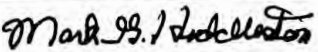
All work done IAW Cessna Manuals D2057-3-13, 15 Jan 08 and P637-12, 03 Apr 95.

Except as stated above, no other work, inspection, corrective action or determination of airworthiness has been completed at this time, limited to work performed.

1. Approving National Aviation Authority/Country: FAA/United States		2. AUTHORIZED RELEASE CERTIFICATE FAA Form 8130-3, AIRWORTHINESS APPROVAL TAG				3. Form Tracking Number: 11,789	
4. Organization Name and Address: BEEGLES AIRCRAFT SERVICE, INC., 635 AIRPORT ROAD, GREELEY, CO 80631 PHONE (970) 353-9200 OR FAX (970) 353-7280						5. Work Order/Contract/Invoice Number: 11,789	
6. Item:	7. Description:	8. Part Number:	9. Eligibility: *	10. Quantity:	11. Serial/Batch Number	12. Status/Work:	
1	RH elevator	1234633-24	TO BE VERIFIED	1	21062705	REPAIRED	
3. Remarks: Replaced inboard trailing edge skin pn 1234633-4, outboard trailing edge skin pn 1234620-16, and tip pn 1234640-2. Repainted to match with Jet Glo Matterhorn White # 570-535 and Orange # CG13921B. Performed painted static balance check.							
GENERAL DESCRIPTION OF THE WORK PERFORMED IS INCLUDED WITH THE ATTACHED WORK ORDER; UNDER THE PART DESCRIPTION LISTED IN BLOCKS 6, 7, 8, 10, AND 11 AS APPLICABLE. A COMPLETE DESCRIPTION OF WORK PERFORMED IS ON FILE AT THE ABOVE REFERENCED ORGANIZATION UNDER THE WORK ORDER AND SYSTEM TRACKING REFERENCE NUMBER INDICATED IN BLOCKS 3 AND 5. NOTICE: An Airworthiness Directive may apply to the article(s) described hereon. The installer is responsible for ensuring complete compliance with any applicable Airworthiness Directive.							
14. Certifies the items identified above were manufactured in conformity to: <input type="checkbox"/> Approved design data and are in a condition for safe operation. <input type="checkbox"/> Non-approved design data specified in Block 13.				19. <input checked="" type="checkbox"/> 14 CFR 43.9 Return to Service <input type="checkbox"/> Other regulation specified in Block 13 Certifies that unless otherwise specified in Block 13, the work identified in Block 12 and described in Block 13 was accomplished in accordance with Title 14, Code of Federal Regulations, part 43 and in respect to that work, the items are approved for return to service.			
15. Authorized Signature:		16. Approval/Authorization No.:		20. Authorized Signature: 		21. Approval/Certificate No.: BX4R092M	
17. Name (Typed or Printed):		18. Date (m/d/y):		22. Name: Ray Burnham		23. Date: 07-23-2012	
User/Installer Responsibilities							
It is important to understand that the existence of this document alone does not automatically constitute authority to install the part/component/assembly. Where the user/installer performs work in accordance with the national regulations of an airworthiness authority different than the airworthiness authority of the country specified in Block 1, it is essential that the user/installer ensures that his/her airworthiness authority accepts parts/components/assemblies from the airworthiness authority of the country specified in Block 1. Statements in Blocks 14 and 19 do not constitute installation certification. In all cases, aircraft maintenance records must contain an installation certification issued in accordance with the national regulations by the user/installer before the aircraft may be flown.							

1. Approving National Aviation Authority/Country: FAA/United States		2. AUTHORIZED RELEASE CERTIFICATE FAA Form 8130-3, AIRWORTHINESS APPROVAL TAG				3. Form Tracking Number: 11,789	
4. Organization Name and Address: BEEGLES AIRCRAFT SERVICE, INC., 635 AIRPORT ROAD, GREELEY, CO 80631 PHONE (970) 353-9200 OR FAX (970) 353-7280						5. Work Order/Contract/Invoice Number: 11,789	
6. Item:	7. Description:	8. Part Number:	9. Eligibility: *	10. Quantity:	11. Serial/Batch Number	12. Status/Work:	
1	LH elevator	1234633-21	TO BE VERIFIED	1	21062705	REPAIRED	
3. Remarks: Replaced tip rib pn 1234637-1, trailing edge skin pn 1234633-15, and tip pn 1234640-1-791. Repainted to match with Jet Glo Matterhorn White # 570-535 and Orange # CG13921B. Performed painted static balance check.							
GENERAL DESCRIPTION OF THE WORK PERFORMED IS INCLUDED WITH THE ATTACHED WORK ORDER; UNDER THE PART DESCRIPTION LISTED IN BLOCKS 6, 7, 8, 10, AND 11 AS APPLICABLE. A COMPLETE DESCRIPTION OF WORK PERFORMED IS ON FILE AT THE ABOVE REFERENCED ORGANIZATION UNDER THE WORK ORDER AND SYSTEM TRACKING REFERENCE NUMBER INDICATED IN BLOCKS 3 AND 5. NOTICE: An Airworthiness Directive may apply to the article(s) described hereon. The installer is responsible for ensuring complete compliance with any applicable Airworthiness Directive.							
14. Certifies the items identified above were manufactured in conformity to: <input type="checkbox"/> Approved design data and are in a condition for safe operation. <input type="checkbox"/> Non-approved design data specified in Block 13.				19. <input checked="" type="checkbox"/> 14 CFR 43.9 Return to Service <input type="checkbox"/> Other regulation specified in Block 13 Certifies that unless otherwise specified in Block 13, the work identified in Block 12 and described in Block 13 was accomplished in accordance with Title 14, Code of Federal Regulations, part 43 and in respect to that work, the items are approved for return to service.			
15. Authorized Signature:		16. Approval/Authorization No.:		20. Authorized Signature:		21. Approval/Certificate No.:	
						BX4R092M	
17. Name (Typed or Printed):		18. Date (m/d/y):		22. Name: Roy Burnham		23. Date: 07-23-2012	
User/Installer Responsibilities							
It is important to understand that the existence of this document alone does not automatically constitute authority to install the part/component/assembly.							
Where the user/installer performs work in accordance with the national regulations of an airworthiness authority different than the airworthiness authority of the country specified in Block 1, it is essential that the user/installer ensures that his/her airworthiness authority accepts parts/components/assemblies from the airworthiness authority of the country specified in Block 1.							
Statements in Blocks 14 and 19 do not constitute installation certification. In all cases, aircraft maintenance records must contain an installation certification issued in accordance with the national regulations by the user/installer before the aircraft may be flown.							

ETN 750 / 6N1235 / 6T1345 / ELT

 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 N6195B		Serial No. 21062705			
		Make CESSNA		Model T210M		Series	
2. Owner		Name (As shown on registration certificate) GATES GROUP OF JOHNSTON COUNTY, LLC		Address (As shown on registration certificate) Address 300 CITATION LN City SMITHFIELD State NC Zip 27577-8738 Country USA			
3. For FAA Use Only							
4. Type		5. Unit Identification					
Repair	Alteration	Unit	Make	Model	Serial Number		
<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 Sparkchasers Aircraft Services, Inc.				<input type="checkbox"/> U.S. Certificated Mechanic <input type="checkbox"/> Foreign Certificated Mechanic <input checked="" type="checkbox"/> Certificated Repair Station <input type="checkbox"/> Certificated Maintenance Organization			
Address 3223-C Swift Creek Road				<input type="checkbox"/> Manufacturer <input type="checkbox"/> Certificate No.			
City Smithfield State NC				XSPR699K			
Zip 27577 Country USA							
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  3-23-2018					
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		<input type="checkbox"/> 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. XSPR699K		Signature/Date of Authorized Individual Mark G. Huddleston 03/23/2018 					

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.)

N6195B

23 MARCH, 2018

Nationality and Registration Mark

Date

- A. Removed the following equipment: 1 ea. Garmin GNS530W Nav/Comm/GPS Transceiver; 1 ea. King / Bendix KX-165 Nav/Comm Transceiver; 1 ea. Garmin GTX327 Transponder; 1 ea. Apollo GX55 GPS Receiver; 1 ea. Mid-Continent MD40 Series Annunciator; 1 ea. Garmin GI-105A Nav Indicator; 1 ea. Garmin GA35 Antenna; 1 ea. LS-08 Cooling Fan; 1 ea. Sigma Tek 4000D-1 (G502A) Directional Gyro and 1 ea. Dorne & Margolin ELT 6.1 ELT System.
- B. Installed the following equipment: 1 ea. Garmin GTN 750 Transceiver PN 013-02282-00 at 13.6 in.; 1 ea. Garmin GA35 WAAS Antenna P/N 013-00235-00 at 36.5 in.; 1 ea. Garmin-GNC255A Nav/Comm Transceiver P/N 011-02806-00 at 12.9 in.; 1 ea. Garmin GTX345 Transponder P/N 011-03302-00 at 13.3 in.; 2 ea. Garmin G5 Flight Displays (Altitude & HSI) P/N 011-03809-00 at 17.5 in.; 1 ea. Garmin GAD29B Autopilot Adapter P/N 011-03236-11 at 157.5 in.; 1 ea. Garmin GMU11 Magnetometer P/N 011-04349-01 at 174.7 in.; 1 ea. ACK E04 ELT at 159.2 in.; 1 ea. ACK ELT 04.8 Antenna at 155.2 in. and 1 ea. Appareo Stratus Power USB Hub P/N 153010-000029 at 21.5 in.
- C. The Garmin GTN750 System was installed in accordance with the Garmin STC# SA02019SE-D and the Garmin GTN750/650 Part 23 AML STC Installation Manual (Document # 190-01007-A3, Rev. 11, dated October, 2017). The GTN750 WAAS Navigation System interfaces to a Garmin G5 Electronic Flight Display and Cessna / ARC 400B Automatic Flight Control System. The above Garmin GA35 WAAS Antenna was installed in accordance with STC# SA01685SE and Garmin STC Antenna Installation Manual # 190-00569-00, Rev. F, dated 08/2007. System software versions for the GTN750 at time of installation: Main v6.41, GPS v5.2.
- D. The Garmin GNC255 Nav/Comm System was installed in accordance with the Garmin GTR225 / GNC255 TSO Installation Manual (Document # 190-01182-02, Rev. G, dated December 2016) and VOR, LOC and Glideslope is displayed on previously installed Garmin GI-106A Indicator.
- E. The above Garmin GTX 345 Transponder System with ADS-B Out and In functionality was installed in accordance with Garmin STC# SA01714WI and the Garmin GTX 3XX Part 23 AML STC Installation Manual # 190-00734-10, Rev. 10, dated March, 2018 and this ADS-B System meets the equipment requirements of CFR 91.227 with position source derived from the GTN750 Navigation system. System software versions for the GTX345 at time of installation: Main v2.12, ADS-B v2.0.
- F. The above Garmin G5 Electronic Flight Displays were installed in accordance with the Garmin STC# SA01818WI and the Garmin G5 Part 23 Part 23 AML Installation Manual # 190-01112-10, Rev. 11, dated December 2017. Software for both G5 Displays was verified to be v5.0 at the time of this installation. The G5 HSI Display provides HDG, course, lateral and vertical steering data to the previously installed Cessna / ARC 400B Automatic Flight Control System.
- G. The E04 ELT System was installed in accordance with the ACK Technologies E-04 ELT Installation Manual (Document # E04M, Rev. 1.7, dated 4/02/2014) and obtains GPS position sensing from the Garmin GTN750 WAAS GPS Receiver.
- H. Transponder, altitude reporter and altimeter checked through altitude operating envelope of aircraft and was found to meet the requirements of FAR Part 43, Appendix E(c). The G5 Flight Displays were certified to 20,000 ft. in accordance with FAR Part 43, Appendix E. Static system, altimeters and transponder systems certified to FAR 91.411 & 91.413.
- I. The above equipment was installed in accordance with the FAA Advisory Circulars AC 43.13-1B (chapter 7 - sections 1-7, chapter 11 - sections 3, 15 & 17 and chapter 12 - sections 1-3) and AC 43.13-2B (Chapters 1 - 3, Chapter 11).
- J. Instructions for Continued Airworthiness: The following Instructions for Continued Airworthiness documents have been placed in the permanent aircraft records: Garmin GTN6XX/7XX ICA Document # 190-01007-A1, Rev. 10 (page 4-1 through 4-12); GTX345 ICA Document # 190-00734-11, Rev. 6 (page 4-1 through 4-7); Garmin G5 Electronic Flight Displays (Pages 7-8 of Garmin Document # 190-01112-11, Rev. 4). ACK E-04 ELT ICA's are in Section 10 of the ACK E-04 ELT Installation / Operation Manual E04M. Maintenance of the Garmin GNC255 is "on condition only".
- K. Flight Manual Supplements: The following Flight Manual Supplements have been placed in the Pilot's Operating Handbook: Garmin GTN 750 Series GPS-WAAS Navigation System (Document #190-01007-A2, Rev. 7 dated 10/17/2017); Garmin GTX345 Transponder (Document # 190-00734-15, Rev. 3 dated 12/07/2017); Garmin G5 Electronic Flight Displays (Document # 190-01112-13, Rev. 5).
- L. The aircraft Weight & Balance and Supplemental Equipment Listing has been revised to reflect the above installation.
- M. All inspection records and other documents pertaining to this major alteration are on file at Sparkchasers Aircraft Services Inc., 3223-C Swift Creek Road, Smithfield, NC 27577 under Work Order # 103706, dated 01/09/2018.

----- NO ----- FURTHER ----- ENTRIES -----

☐ Additional Sheets Are Attached

Department of Transportation - Federal Aviation Administration

Supplemental Type Certificate

Number SA02019SE-D

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

certifies that the change in the type design for the following product with the limitations and conditions therefore as specified hereon meets the airworthiness requirements of Part 23 * of the Federal Aviation Regulations.

Original Product--Type Certificate Number: * See attached Federal Aviation Administration (FAA)
Make: Approved Model List (AML) SA02019SE-D for approved
Model: aircraft models and applicable airworthiness regulations.

Description of Type Design Change: Installation of Garmin GTN 6XX/7XX Navigation System in accordance with FAA approved Master Drawing List, 005 00533-C0, Revision 1, approved March 18, 2011 or later FAA approved revision. The Master Drawing List identifies applicable FAA approved Airplane Flight Manual Supplements and System Maintenance Manual (including Instructions for Continued Airworthiness).

Limitations and Conditions:

- 1) Compatibility of this design change with other previously approved modifications must be determined by the installer; installation of this change should not introduce any adverse effect on the aircraft.
- 2) A copy of this certificate and associated AML, plus the ICA and applicable AFMS, as called out by the applicable Master Drawing List (reference above), must be maintained as part of the permanent records for the modified aircraft.
- 3) 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 Continuation Sheet on Page 3)

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: March 26, 2009
Date of issuance: March 18, 2011

Date reissued:
Date amended: December 19, 2012;
November 25, 2014; November 2, 2017



By direction of the Administrator

Erik Frisk

(Signature)

Erik Frisk, ODA STC Unit Administrator
ODA-240087-CE, Garmin International, Inc.

(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.

FAA Approved Model List (AML) STC SA02019SE-D

Aircraft Make (TCDS Holder) [common name or previous make]	Aircraft Model	Type Certificate Number	TC Certification Basis *	Master Drawing List		AML Revision Date	Limitations / Notes
				Document Number	Revision (or later FAA approved revision)		
Atlantic Coast Seaplanes, LLC (Atlantic Coast Seaplanes LLC) [A.G. McKinnon] [Viking Air Limited] [Aero Planes]	G-21C, G-21D, G-21E, G-21G	4A24	CAR 3	005-00533-C0	1	3/18/2011 Original	
Bellanca (Bellanca Aircraft Corporation)	14-13, 14-13-2, 14-13-3, 14-13-3W	A-773	CAR 4a	005-00533-C0	1	3/18/2011 Original	
B-N Group LTD. (B-N Group Ltd.) [Britten-Norman Limited]	BN-2, BN-2A, BN-2A-2, BN-2A-3, BN-2A-6, BN-2A-8, BN-2A-20, BN-2A-21, BN-2A-26, BN-2A-27, BN-2B-20, BN-2B-21, BN-2B-26, BN-2B-27, BN-2T, BN-2T-4R, BN-2A-9	A17EU	FAR 23	005-00533-C0	1	3/18/2011 Original	
B-N Group LTD. (B-N Group Ltd.) [Britten-Norman Limited]	BN2A MK. III, BN2A MK. III-2, BN2A MK. III-3	A29EU	FAR 23	005-00533-C0	1	3/18/2011 Original	
Boeing (The Boeing Company) [Rockwell International Corporation] [North American]	BC-1A, AT-6 (SNJ-2), AT-6A (SNJ-3), AT-6B, AT-6C (SNJ-4), AT-6D (SNJ-5), AT-6F (SNJ-6), SNJ-7, T-6G	A-2-575	CAR 4a	005-00533-C0	1	3/18/2011 Original	
Cessna (Cessna Aircraft Company)	310, 310A (USAF U-3A), 310B, 310C, 310D, 310E (USAF U-3B), 310F, 310G, 310H, E310H, 310I, 310J, 310J-1, E310J, 310K, 310L, 310N, 310P, T310P, 310Q, T310Q, 310R, T310R	3A10	CAR 3	005-00533-C0	1	3/18/2011 Original	
Cessna (Cessna Aircraft Company)	172, 172A, 172B, 172C, 172D, 172E, 172F, 172G, 172H, 172J, 172K, 172L, 172M, 172N, 172P, 172Q, 172R, 172S	3A12	CAR 3 FAR 23	005-00533-C0	1	3/18/2011 Original	
Cessna (Cessna Aircraft Company)	182, 182A, 182B, 182C, 182D, 182E, 182F, 182G, 182H, 182J, 182K, 182L, 182M, 182N, 182P, 182Q, 182R, 182S, 182T, R182, T182, TR182, T182T	3A13	CAR 3 FAR 23	005-00533-C0	1	3/18/2011 Original	
Cessna (Cessna Aircraft Company)	172RG, P172D, R172E, R172F, R172G, R172H, R172J, R172K, 175, 175A, 175B, 175C	3A17	CAR 3	005-00533-C0	1	3/18/2011 Original	
Cessna (Cessna Aircraft Company)	150, 150A, 150B, 150C, 150D, 150E, 150F, 150G, 150H, 150J, 150K, 150L, 150M, A150K, A150L, A150M, 152, A152	3A19	CAR 3 FAR 23	005-00533-C0	1	3/18/2011 Original	
Cessna (Cessna Aircraft Company)	210, 210A, 210B, 210C, 210D, 210E, 210F, 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	CAR 3	005-00533-C0	1	3/18/2011 Original	

United States of America
Department of Transportation -- Federal Aviation Administration
Supplemental Type Certificate

Number SA01714WI

This certificate issued to

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

*certifies that the change in the type design for the following product with the limitations and conditions
thereof as specified herein meets the airworthiness requirements of Part 23* of the Federal Aviation
Regulations.*

Original Product - Type Certificate

Number:

* See attached Approved Model List (AML) No.

Make:

SA01714WI dated May 1, 2013 or later FAA-

Model:

approved revision for list of approved aircraft models
and applicable airworthiness regulations.

Description of Type Design Change:

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

Data Required:

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

Limitations and Conditions:

- (1) Compatibility of this design change with previously approved modifications must be determined by the installer.
- (2) Aircraft installations involving the Garmin transponder GTX 33/33D/330/330D models require the previous installation of an approved ADS-B position source. Refer to the design data specified in the Master Drawing List (MDL) listed above for specific hardware and software requirements.
- (3) Aircraft installations involving the Garmin transponder GTX 335/335R/345/345R models without an optional internal GPS require the previous installation of an approved ADS-B position source. Refer to the design data specified in the Master Drawing List (MDL) listed above for specific hardware and software requirements.

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

Date of application: August 7, 2012

Date received:

Date of issuance: May 1, 2013

Date amended: April 29, 2014, March 8, 2016



By direction of the Administrator

(Signature)

Michael Warren
ODA STC Unit Administrator
ODA-240087-CE
Garmin International, Inc.

(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 SA01714WI

Airplane Make (TCDS Holder) [common name or previous make]	Airplane Model Designation	Type Certificate Number	TC Certification Basis ⁽¹⁾	Master Drawing List Revision (005-00734-04)	AML Revision/Date
Textron Aviation Inc. (Textron Aviation Inc.) [Cessna Aircraft Company]	210, 210A, 210B, 210C, 210D, 210E, 210F, 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	CAR 3 FAR 23	1	Original 5/1/2013
	185, 185A, 185B, 185C, 185D, 185E, A185E, A185F	3A24	CAR 3 FAR 21 FAR 23	1	Original 5/1/2013
	320, 320A, 320B, 320C, 320D, 320E, 320F, 320-I, 335, 340, 340A	3A25	CAR 3 FAR 23	1	Original 5/1/2013
	140A	5A2	CAR 3 CAR 4a	1	Original 5/1/2013
	180, 180A, 180B, 180C, 180D, 180E, 180F, 180G, 180H, 180J, 180K	5A6	CAR 3	1	Original 5/1/2013
	120, 140	A-768	CAR 4a	1	Original 5/1/2013
	190, 195 (LC-126A,B,C), 195A, 195B	A-790	CAR 3	1	Original 5/1/2013
	170A, 170B	A-799	CAR 3	1	Original 5/1/2013
	525	A1WI	FAR 23	1	Original 5/1/2013
	525A	A1WI	FAR 23	1	Original 5/1/2013
	336	A2CE	CAR 3	1	Original 5/1/2013



United States of America
Department of Transportation
Federal Aviation Administration

Supplemental Type Certificate

Number: SA01818WI

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

certifies that the change in the type design for the following product with the limitations and conditions therefore as specified hereon meets the airworthiness requirements of Part 23^a of the Federal Aviation Regulations.

Original Product - Type Certificate Number:

Multiple - AML STC

Make:

Model: See Approved Model List (AML) SA01818WI for approved aircraft models and applicable airworthiness regulations

Description of Type Design Change:

Installation of Garmin G5 Electronic Flight Instrument

Data Required:

- (1) Garmin Master Drawing List (MDL) 005-01112-01, Revision 1, dated July 22, 2016
 - (2) Garmin G5 STC Maintenance Manual Including ICA 190-01112-11, Revision 1, dated July 22, 2016
 - (3) Garmin G5 Airplane Flight Manual Supplement 190-01112-13, Revision 1, dated July 22, 2016
- Later FAA-approved revisions to the data listed above are incorporated without amendment to this certificate

Limitations and Conditions:

- (1) Compatibility of this design change with previously approved modifications must be determined by the installer.
- (2) The installation of the G5 requires the retention of the mechanical airspeed indicator, altimeter, and vertical speed indicator.

(continued on Page 3)

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

Date of Application: May 5, 2016

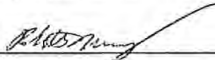
Date Reissued:

Date of Issuance: July 22, 2016

Date Amended: April 28, 2017; October 18, 2017

By Direction of the Administrator

Signature


Title Robert G. Murray
ODA STC Unit Administrator
ODA-240087-CE

Any alteration of this certificate is punishable by a fine of not exceeding \$1,000, or imprisonment not exceeding 3 years, or both. This certificate may be transferred or made available to third persons by licensing agreements in accordance with 14 CFR 21.47. Possession of this Supplemental Type Certificate (STC) document by persons other than the STC holder does not constitute rights to the design data nor to alter an aircraft, aircraft engine, or propeller. The STC's supporting documentation (drawings, instructions, specifications, flight manual supplements, etc.) is the property of the STC holder. An STC holder who allows a person to use the STC to alter an aircraft, aircraft engine, or propeller must provide that person with written permission acceptable to the FAA. (Ref. 14 CFR 21.120).


FAA Approved Model List (AML) STC SA01818WI

Aircraft Make (TCDS Holder) [common name or previous make]	Aircraft Model (alias)	Type Certificate Number	TC Cert. Basis*	MDL 005-01112-01 Rev.**	AML Rev. Date	Limitations
Textron Aviation Inc. (Textron Aviation Inc.) [Cessna Aircraft Company]	120, 140	A-768	CAR 4a	5	April 28, 2017	
Textron Aviation Inc. (Textron Aviation Inc.) [Cessna Aircraft Company]	150, 150A, 150B, 150C, 150D, 150E, 150F, 150G, 150H, 150J, 150K, A150K, 150L, A150L, 150M, A150M, 152, A152	3A19	CAR 3	1	July 22, 2016	
Textron Aviation Inc. (Textron Aviation Inc.) [Cessna Aircraft Company]	170, 170A, 170B	A-799	CAR 3	1	July 22, 2016	
Textron Aviation Inc. (Textron Aviation Inc.) [Cessna Aircraft Company]	172, 172A, 172B, 172C, 172D, 172E, 172F (USAF T-41A), 172G, 172H (USAF T-41A), 172I, 172K, 172L, 172M, 172N, 172P, 172Q, 172R, 172S	3A12	CAR 3 FAR 23	1	July 22, 2016	(3)
Textron Aviation Inc. (Textron Aviation Inc.) [Cessna Aircraft Company]	175, 175B, P172D, R172E (USAF T-41B), (USAF T-41C or D), R172F (USAF T-41D), R172G (USAF T-41C or D), R172H (USAF T-41D), R172J, 172RG, R172K	3A17	CAR 3	1	July 22, 2016	
	175A, 175C			8	October 18, 2017	
Textron Aviation Inc. (Textron Aviation Inc.) [Cessna Aircraft Company]	177, 177A, 177B	A13CE	FAR 23	1	July 22, 2016	
Textron Aviation Inc. (Textron Aviation Inc.) [Cessna Aircraft Company]	177RG	A20CE	FAR 23	1	July 22, 2016	
Textron Aviation Inc. (Textron Aviation Inc.) [Cessna Aircraft Company]	180, 180A, 180B, 180C, 180D, 180E, 180F, 180G, 180H, 180J, 180K	5A6	CAR 3	1	July 22, 2016	
Textron Aviation Inc. (Textron Aviation Inc.) [Cessna Aircraft Company]	182, 182A, 182B, 182C, 182D, 182E, 182F, 182G, 182H, 182J, 182K, 182L, 182M, 182N, 182P, 182Q, 182R, 182S, 182T, R182, T182, TR182, T182T	3A13	CAR 3 FAR 23	1	July 22, 2016	(3)
Textron Aviation Inc. (Textron Aviation Inc.) [Cessna Aircraft Company]	185, 185A, 185B, 185C, 185D, 185E, A185E, A185F	3A24	CAR 3	1	July 22, 2016	
Textron Aviation Inc. (Textron Aviation Inc.) [Cessna Aircraft Company]	190, 195 (LC-126A,B,C), 195A, 195B	A-790	CAR 3	1	July 22, 2016	
Textron Aviation Inc. (Textron Aviation Inc.) [Cessna Aircraft Company]	206, P206, P206A, P206B, P206C, P206D, P206E, TP206A, TP206B, TP206C, TP206D, TP206E, U206, U206A, U206B, U206C, U206D, U206E, U206F, U206G, TU206A, TU206B, TU206C, TU206D, TU206E, TU206F, TU206G, 206H, T206H	A4CE	CAR 3 FAR 23	1	July 22, 2016	(3)
Textron Aviation Inc. (Textron Aviation Inc.) [Cessna Aircraft Company]	210, 210A, 210B, 210C, 210D, 210E, 210F, T210F, 210G, T210G, 210H, T210H, 210J, T210J, 210K, T210K, 210L, T210L, 210M, T210M, 210N, T210N, 210R, T210R, 210-5 (205), 210-5A (205A)	3A21	CAR 3	1	July 22, 2016	
	P210N, P210R			5	April 28, 2017	
Textron Aviation Inc. (Textron Aviation Inc.) [Cessna Aircraft Company]	T303	A34CE	FAR 23	1	Aug 22, 2016	

Issued: July 22, 2016

Revised: October 18, 2017

EOM 2930

 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 N6195B		Serial No. 21062705		Series
	Make CESSNA		Model T210M		
2. Owner	Name (As shown on registration certificate) GATES GROUP OF JOHNSTON COUNTY, LLC		Address (As shown on registration certificate) Address 300 CITATION LN City SMITHFIELD Zip 27577-8738		State NC Country USA
	3. For FAA Use Only				
4. Type					
Repair	Alteration	Unit	Make	Model	Serial Number
<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		
5. Conformity Statement					
A. Agency's Name and Address			B. Kind of Agency		
Name Sparkchasers Aircraft Services, Inc. Address 3223-C Swift Creek Road City Smithfield Zip 27577 State NC Country USA			<input type="checkbox"/> U.S. Certificated Mechanic <input type="checkbox"/> Foreign Certificated Mechanic <input checked="" type="checkbox"/> Certificated Repair Station <input type="checkbox"/> Certificated Maintenance Organization		
			<input type="checkbox"/> Manufacturer C. Certificate No. XSPR699K		
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 Mark G. Huddleston 03/23/2018			
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	<input type="checkbox"/> 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. XSPR699K		Signature/Date of Authorized Individual Mark G. Huddleston 03/23/2018			

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.)

N6195B

23 MARCH, 2018

Nationality and Registration Mark

Date

- A. Removed the following equipment: 1 ea. Insight Avionics 610C Engine Management System at 10.75 in., 1 ea. Cessna Cylinder Head Temperature / Oil Temperature Gage at 17.2 in.; 1 ea. Cessna Ammeter / Oil Pressure Gage at 17.2 in. and 1 ea. Cessna Manifold Pressure / Fuel Flow Gage at 16.5 in.
- B. Installed a J. P. Instruments EDM-930 Primary Engine Data Management System in specific locations as directed by STC# SA01435SE. The EDM-930 components are listed below:
- 1 ea. EDM-930 P/N 790000-C Display, s/n 07393
 - 1 ea. Remote Alarm Display (RAD) P/N 790749 s/n 69543
 - 1 ea. Fuel Flow Transducer P/N 700900-1 s/n 214652 (K=29.5)
 - 6 ea. CHT Probes P/N 5050-T
 - 6 ea. EGT Probes P/N M-111
 - 1 ea. Ammeter Shunt-100 Amp, P/N 159920
 - 1 ea. Oil Pressure Transducer P/N 159936-A, s/n 11443
 - 1 ea. Fuel Pressure Transducer P/N 159939, s/n 10496
 - 1 ea. MAP Sensor P/N 159934-A, s/n 11436
 - 1 ea. RPM Sensor P/N 420809, s/n 68267
 - 1 ea. OAT Probe, P/N 400510, s/n 7985
 - 1 ea. Oil Temperature Probe, P/N 400509, s/n 8113
 - 1 ea. M-111-T Probe, TIT s/n 238410
- C. The above J.P. Instruments EDM-930 Primary Engine Data Management System was installed in accordance with STC# SA01435SE and J.P. Instruments Installation Manual Report # 908, Rev. K, dated 05/02/2017. This installation is approved for this aircraft under AML# SA01435SE.
- D. The J.P. Instruments fuel flow transducer was installed, using existing fuel hoses, in same location as Insight Avionics transducer that was removed. Fuel Flow K-Factor was programmed and verified accordingly.
- E. The above system was installed in accordance with FAA Advisory Circular AC 43.13-1B, (chapter 7 – sections 2-5, chapter 8 – section 3 and chapter 11 – sections 3-6, 8, 11, 15 and 17) and Advisory Circular AC 43.13-2B (Chapters 1, 2 and 11).
- F. A functional ground and flight check was performed and the above J.P. Instruments EDM-930 Engine Data Management System was found to function normally.
- G. The FAA Approved Airplane Flight Manual Supplement # 930-0001 Rev. D, dated March 28, 2016, has been installed in the aircraft Pilot's Operating Handbook.
- H. Instructions for Continued Airworthiness: ICA Instructions are contained in Supplement No. 905-01, Rev. E, dated 05/24/2014. A copy of this ICA has been placed in the permanent aircraft records.
- I. The aircraft Weight & Balance and Equipment Listing have been revised accordingly.
- J. All inspection records and other documents pertaining to this major alteration are on file at Sparkchasers Aircraft Services, Inc., 3223-C Swift Creek Road, Smithfield, NC 27577 under Work Order Number 103706, dated 01/09/2018.

-----NO-----FURTHER-----ENTRIES-----

☐ Additional Sheets Are Attached

FAA
EDM
Pri

J.P. INSTRUMENTS
FAA APPROVED MODEL LIST (AML) NUMBER SA01435SE FOR
INSTALLATION OF THE EDM-900/930 PRIMARY ENGINE DATA MANAGEMENT SYSTEM

ITEM	AIRCRAFT MAKE	AIRCRAFT MODEL	TYPE CERTIFICATE NUMBER	CERTIFICATION BASIS FOR ALTERATION	AML REVISION DATE

United States of America
Department of Transportation—Federal Aviation Administration

Supplemental Type Certificate

Number SA01435SE

This certificate, issued to

J. P. Instruments
3185 Airway Ave, Suite B
Costa Mesa, CA 92626-4601

certifies that the change in the type design for the following product with the limitations and conditions therefore as specified herein meets the airworthiness requirements of Part 21 of the Federal Regulations.

Original Product—Type Certificate Number:
Make:
Model:

*See attached FAA Approved Model List (AML)
No. SA01435SE for a list of approved airplane
models and applicable airworthiness regulations.

Description of the Type Design Change: Installation of J.P. Instruments (JPI) Primary Engine Data Management System in accordance with JPI Installation Manual for the EDM 900/930, Report 908, dated September 9, 2004, or later FAA approved revision.

Limitations and Conditions: Approval of this change in type design applies to the aircraft models listed on the AML only. This approval should not be extended to other aircraft of these models on which other previously approved modifications are incorporated unless it is determined that the relationship between this change and any of those other previously approved modifications, including changes in type design, will introduce no adverse effect upon the airworthiness of that aircraft. A copy of this Certificate, FAA AML No. SA01435SE, and Airplane Flight Manual Supplement EDM-900 and EDM-930, Primary Engine Data Management System, dated December 10, 2004, Document Numbers 900-0001 and 930-0001 Revision C respectively, or later FAA approved revisions, must be maintained as part of the permanent records for the modified aircraft.

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: November 4, 2002

Date received:

Date of issuance: December 13, 2004

Date amended:



By direction of the Administrator

[Signature]

(Signature)

Acting Manager, Seattle 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

FAA Form 8110-2 (10-03)

J.P. INSTRUMENTS
FAA APPROVED MODEL LIST (AML) NUMBER SA01435SE FOR
INSTALLATION OF THE EDM-900/930 PRIMARY ENGINE DATA MANAGEMENT SYSTEM

ORIGINAL ISSUE DATE: December 13, 2004

ITEM	AIRCRAFT MAKE	AIRCRAFT MODEL	TYPE CERTIFICATE NUMBER	CERTIFICATION BASIS FOR ALTERATION	AML REVISION DATE
83.	Textron Aviation Inc.	210, 210A, 210B, 210C, 210D, 210E, 210F, 210G, 210H, 210J, 210K, 210L, 210M, 210N, 210R, P210N, P210R, T210F, T210G, T210H, T210J, T210K, T210L, T210M, T210N, T210R Also 210, 210A, 210B, 210C, 210D, 210E, 210F, T210F, 210G, T210G, 210H, T210H, 210J, T210J, 210K, T210K, 210L, T210L, 210M, T210M, 210N, P210N, T210N, 210R, P210R, T210R with STC SA10070SC. Also 210K, 210L, 210M, 210N with STC SA02029AT-D. Also 210A, 210B, 210C, 210D, 210E, 210F, 210G, 210H, 210J, 210K, 210L, 210M, 210N, 210R, T210F, T210G, T210H, T210J, T210K, T210L, T210M, T210N with STC SA02294CH. Also 210M, 210N with STC SA00274AT. Also 210D, 210E, 210F, 210G, 210H, 210J, 210K, 210L, 210M, 210N, 210R with STC SA09952SC. Also T210M, T210N with STC SA3203NM or SA2598NM. Also 210K, 210L, 210M, 210N, T210K, T210L, T210M, T210N with STC SA3104SO. Also T210F, T210G, T210H, T210J, T210K, T210L with STC SA2689SW. Also T210L, T210M, T210N with STC SA02918CH. Also T210K, T210L, T210M, T210N with STC SA02107AT-D. Also 210F, 210G, 210H, 210J, 210K, 210L, 210M, 210N, T210F, T210G, T210H, T210J, T210K, T210L with STC SA00773AT. Also P210N with STC SA2528NM or SA3557NM or SA02918CH or SA2568NM or SA2528NM. Also T210F, T210G, T210H, T210J, T210K, T210L, T210M, P210N, T210N with STC SA2390NM	3A21	CAR 3	8/2/16
84.	Textron Aviation Inc.	LC40-550FG, LC42-550FG	A00003SE	FAR 23	8/2/16
85.	True Flight Holdings LLC (American General)	AA-1, AA-1A, AA-1B, AA-1C	A11EA	FAR 23	08/18/10
86.	True Flight Holdings LLC	AA-5, AA-5A, AA-5B, AG-5B Also AA-5A with STC SA1186NW or STC SA5452NM. Also AA-5B with STC SA01658NY or SA1195NW	A16EA	FAR 23	6/18/15
87.	Univair (Stinson)	108-3	A-767	CAR 3	07/25/05
88.	Viking Air Limited	DHC-2 Mk I	A-806	CAR 3 FAR 21.29	03/21/08
89.	WACO	YMF Also F5, F5C with STC SA1000GL	ATC 542	Aero Bulletin 7A	8/2/16
90.	WACO Classic Aircraft Corporation	2T-1A-1, 2T-1A-2	A18EA	FAR 23	03/21/08

 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 USA N6195B		Serial No. 21062705				
	Make CESSNA		Model T210M		Series		
2. Owner	Name (As shown on registration certificate) STP AIRCRAFT PARTNERSHIP		Address (As shown on registration certificate) 6441 Piney Creek Circle				
			City Aurora		State CO		Zip 80016 Country United States
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 checked="" type="checkbox"/>	POWERPLANT	Continental	TSIO-520-R		217425-R	
<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 Eric R. Lundquist			<input checked="" type="checkbox"/> U. S. Certificated Mechanic		Manufacturer		
Address 13124 Mercury Drive			<input type="checkbox"/> Foreign Certificated Mechanic		C. Certificate No.		
City Littleton State CO			<input type="checkbox"/> Certificated Repair Station		A&P 3442975		
Zip 80124-2926 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 Eric R. Lundquist April 29, 2011					
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		Persons Approved by Canadian Department of Transport		
	FAA Designee	Repair Station	<input checked="" type="checkbox"/> Inspection Authorization	Other (Specify)			
Certificate or Designation No. 3442975		Signature/Date of Authorized Individual Eric R. Lundquist April 29, 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.)

USA N6195B

04/29/2011

Nationality and Registration Mark

Date

Continental Motors TSIO-520-R Serial No. 217425

1. Removed six (6) (TCM) fuel injection nozzles Part No. 632748-14C and installed General Aviation Modification, Inc. turboGAMIjector Kit No. GT14C, Serial No. 20793.
2. The six (6) new GAMIjectors were installed per Supplemental Type Certificate No. SE09289SC PMA No. PQ821SW in accordance with turboGAMIjector Installation Procedure no. IP-97-002, Rev. 001, dated 06 February 1997. Aircraft fuel injection system checked per (TCM) Service Information Directive No. SID 97-3 E.
3. No change to the Aircraft Weight and Balance was required.
4. The required information for Continued Airworthiness has been incorporated into the Aircraft Records and reads as follows:

Maintenance: FAMI recommends removal and cleaning of the nozzles at normal intervals of 100-200 hours. Nozzles may be soaked in an appropriate solvent such as Gunk carburetor cleaner or Hoppe's #9 Gun Solvent, followed by blowing off with an air nozzle. A small hole should be visually clear through the nozzle. Caution: Do not attempt to insert any drill, wire or other article into the nozzle in an attempt to clean the orifices. In the event that a nozzle becomes clogged and requires cleaning and recalibration, it may be returned to GAMI for immediate service.

-----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 herein 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 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)

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 6195B, to alter that certain Teledyne Continental Motors Engine:

Model TSIO-520-R, SN 217425-R 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.

[Signature]

By Tim Roehl, President

Or George W. Braly, CEO

[SEAL]

4-13-11

Date

General Aviation Modifications, Inc.

2800 Airport Rd. Hangar A
Ada, OK 74820
(580) 436-4833
Fax (580) 436-6622

MANUFACTURER RELEASE CERTIFICATE

KIT NO. GT14C

Product Name: ***turboGAMIjectors®***
Fuel Injection Nozzles

STC No. : SE09289SC
FAA-PMA

P/N:GA205 Qty. 1 Installation Location Cylinder: 1 Replaces TCM P/N 632748-14C
P/N:GA205 Qty. 1 Installation Location Cylinder: 2 Replaces TCM P/N 632748-14C
P/N:GM191 Qty. 1 Installation Location Cylinder: 3 Replaces TCM P/N 632748-14C
P/N:GM191 Qty. 1 Installation Location Cylinder: 4 Replaces TCM P/N 632748-14C
P/N:GF181 Qty. 1 Installation Location Cylinder: 5 Replaces TCM P/N 632748-14C
P/N:GF181 Qty. 1 Installation Location Cylinder: 6 Replaces TCM P/N 632748-14C

Applicable to:
Engine Manufacturer :Teledyne Continental Motors

Engine Model(s): TSIO-520-R

turboGAMIjectors® Kit No. GT14C S/N 20793

THE AERONAUTICAL PRODUCT DESCRIBED HEREON CONFORMS TO APPROVED
TYPE DESIGN AND IS IN A CONDITION FOR SAFE OPERATION



Karen Weddle
GAMI AUTHORIZED INSPECTOR

Date: 4-13-11

General Aviation Modifications, Inc.
GAMIjectors® & turboGAMIjectors®
FAA-PMA INSTALLATION ELIGIBILITY CHART

KIT PART NO.	KIT DESCRIPTION	STC NUMBER	ELIGIBLE FOR INSTALLATION ON:
GAD12A,GAD12B,GAD12C,GADI2D, GADI2E,GADI3AA,GAD13A, GAD13B,GAD13C,GBD12A,GBD12B, GBD12C,GBD12D,GBD12E, GBD13AA,GBD13A,GBD13B, GBD13C	<i>GAMIjectors</i> ® (Modified Fuel Injector Nozzle Kits)	SE09217SC	TCM MODELS IO-470-A,C,D,E,F,G, H,J,K,L,LO,M,N,P,R,S,T,U,V,VO, & LIO-470-A; IO-520- A,B,BA,BB,C,D,E,F, J,K,L,M,MB; IO- 550-A,B,C,D,E,F, & L
GT13B,GT13C,GT14A,GT14B,GT14C, GT14D,GT14E,GTT14A,GTT14B, GT15AA,GT15A,GT15AB, GT15B,GT15C,GT15D,GT16A,GT16B, GT16C,GT17A,GT17B,GT17C,GT17D GTL13D,GTL13E,GTL14B,GTL14C, GTL17C,GTL17D	<i>turboGAMIjectors</i> ® (Modified Fuel Injector Nozzle Kits)	SE09289SC	TCM MODELS TSIO-470-B,C,D; TSIO-520-A,AE,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; LTSIO-520-AE;TSIOL-550-A,B,C IO-520-B,BA,BB with STCSE5222NM IO-520-D with STC SE00215DE; IO-550-B with STC SE5222NM,
G360-10A,G360-10B,G360-10C, G360-10D,G360-10J,G360-10K	<i>GAMIjectors</i> ® (Modified Fuel Injector Nozzle Kits)	SE09401SC	TCM MODELS IO-360- A,B,C,D,E,G, H,J,K,AB,CB, DB, HB,JB,KB,ES
GT360-12AA,GT360-12A,GT360-12B, GT360-12C,GT360-12D,GT360-12E, GT360-13AA,G1360-13A,GT360-13B, GT360-13C,GT360-13D,GT360-13E	<i>turboGAMIjectors</i> ® (Modified Fuel Injector Nozzle Kits)	SE09401SC	TCM MODELS TSIO-360-A,AB,B, BB,C,CB,D,DB,E,F,G,GB,H,HB, EB,FB,JB,KB,LB,BB; LTSIO-360-E,EB,KB
TIG-240-10J,TIG-240-10K TIG-360-10J,TIG-360-10K, TIG-550-12D,TIG-550-12E	<i>GAMIjectors</i> ® (Modified Fuel Injector Nozzle Kits)	SE09963SC	TCM MODELS IO-240-A,B; IO-360-ES;IO-550-G,N,R
TIGT-360-13B, GGT-520-19AA,GGT-520-19A, TIGT-520-19B,TIGT-520-19C TIGT-520-19AA,TIGT-520-19A TIGT-550-19B,TIGT-550-19C	<i>turboGAMIjectors</i> ® (Modified Fuel Injector Nozzle Kits)	SE09963SC	TCM MODELS TSIO-360-MB,RB,SB,RB LTSIO-360-RB, TSIO-520-BE, GTSIO-520-D,H,L,N TSIO-550-B,C, E

General Aviation Modifications, Inc.
Installation Procedure, No. IP-97-002
(Rev. 002)
Date: February 6, 1997

GAMI Kit No. GT14C
S/N 20792

***turboGAMljector*® Installation Procedure**
for TCM TSIO-520 and Turbonormalized IO-520 and IO-550 Engines
STC No. SE09289SC

1. Remove existing TCM fuel injector nozzles by disconnecting fuel and air lines at the top with an appropriate wrench. Remove the air lines surrounding each nozzle. Remove the nozzles with a ½ inch deep socket.
2. Determine which specific nozzle is installed in the engine as the factory standard nozzle. Then refer to Chart "T" for the GAMI Kit to be installed. Verify that the kit to be used matches the appropriate kit number corresponding to the factory standard nozzle size for the engine to be modified. Verify that the injectors enclosed in the kit are correctly identified and correspond to the injector numbers on the line identified by the kit number in Chart "T". Check to see that the "O" rings are properly installed in the respective grooves in the nozzles.
3. Using a ½ inch deep socket, install the *turboGAMljector*® nozzles in the appropriate cylinders as described above. It is recommended that an appropriate "anti-seize" compound be applied to the threads before installing the injectors.
4. Tighten nozzles to a torque value of 55-65 lb-in.
5. Reconnect and tighten the fuel and air lines at the top of the *turboGAMljector*® nozzles.
6. Check installation for crimped lines, loose fittings, etc.
7. Leak check the *turboGAMljector*® nozzles and associated fuel lines by use of the electric fuel pump, prior to starting the engine. Perform a ground engine run-up and recheck for fuel leaks before flight.
8. Clean a flat 1.5" X 2" area on each cylinder rocker arm cover with acetone or isopropyl alcohol. Apply the correct *turboGAMljector*® label to the cleaned area with high temperature RTV silicone, such as Permatex "Ultra Copper" P/N101B or equivalent. Allow to cure, thoroughly, prior to operation of the engine.
9. Check to insure that the *turboGAMljectors*® and placards have been installed on the proper cylinder and that the *turboGAMljector*® part number in each cylinder corresponds with the part number called out on the placard affixed to its respective cylinder head rocker arm cover.



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 USA N6195B	Serial No. 21062705	
	Make CESSNA	Model T210M	Series
2. Owner	Name (As shown on registration certificate) STP AIRCRAFT PARTNERSHIP		Address (As shown on registration certificate) 6441 Piney Creek Circle
			City Aurora State CO
			Zip 80016 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 Name Robert Tawell Watring Address 1164 Dolores Road City Altadena State Cal Zip 91001-1745 Country United States			B. Kind of Agency <input checked="" type="checkbox"/> U. S. Certificated Mechanic <input type="checkbox"/> Foreign Certificated Mechanic <input type="checkbox"/> Certificated Repair Station <input type="checkbox"/> Certificated Maintenance Organization			Manufacturer C. Certificate No. A&P 3051075
--	--	--	--	--	--	--

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 February 1, 2013 Robert Tawell Watring <i>Robert Tawell Watring</i>
--	---

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	Other (Specify)

Certificate or Designation No. 3221132	Signature/Date of Authorized Individual February 1, 2013 L. John Wells <i>L. John Wells</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.)

USA N6195B

02/01/2013

Nationality and Registration Mark

Date

Cessna

T210M

S/N: 21062705

N6195B

1. Removed Cessna factory installed sun visors and installed Rosen Sunvisor Systems Kit No. RCS-300-3 per STC SA00871SE in reference to Rosen Products LLC Drawing Lists 9050-0118-013 per (FAA) (AML) dated 04-08-2005.
2. The Rosen Sunvisor System was installed using the Installation Instructions, Document No. 9051-0118-017, Rev. E, dated 10-03-2008.
3. The Aircraft Equipment List has been revised and no change to the Aircraft Weight and Balance was required.
4. Instructions for Continued Airworthiness have been incorporated into the Aircraft Records

-----END-----

☒ Additional Sheets Are Attached

26195B

United States of America

Department of Transportation Federal Aviation Administration

Supplemental Type Certificate

Number SA00871SE

This certificate, issued to

Rosen Sunvisor Systems, LLC
86365 College View Road
Eugene, OR 97405

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)

Make:

No. SA00871SE for a list of approved aircraft

Model:

models and applicable airworthiness regulations.

Description of the Type Design Change: Cockpit sunvisor installation in accordance with Rosen Products LLC Drawing Lists per the attached Federal Aviation Administration (FAA) Approved Model List (AML) No. SA00871SE, dated April 8, 2005, or later FAA approved revision.

Limitations and Conditions: The approval of this change in type design applies to the aircraft models listed on FAA AML No. SA00871SE. This approval should not be extended to other aircraft of this model on which other previously approved modifications are incorporated unless it is determined that the interrelationships between this change and any other previously approved modifications will introduce no adverse effect upon the airworthiness of that aircraft. A copy of this certificate and FAA AML SA00871SE shall be maintained as part of the permanent records of the modified aircraft.

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: May 9, 2000

Date reissued: March 24, 2003; April 8, 2005

Date of issuance: January 25, 2001

Date amended: March 24, 2003; April 8, 2005



By direction of the Administrator

[Signature]
(Signature)

Acting Manager, Seattle 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.

26195B

United States of America

Department of Transportation Federal Aviation Administration

Supplemental Type Certificate

Number SA00871SE

This certificate, issued to

Rosen Sunvisor Systems, LLC
86365 College View Road
Eugene, OR 97405

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)

Make:

No. SA00871SE for a list of approved aircraft

Model:

models and applicable airworthiness regulations.

Description of the Type Design Change: Cockpit sunvisor installation in accordance with Rosen Products LLC Drawing Lists per the attached Federal Aviation Administration (FAA) Approved Model List (AML) No. SA00871SE, dated April 8, 2005, or later FAA approved revision.

Limitations and Conditions: The approval of this change in type design applies to the aircraft models listed on FAA AML No. SA00871SE. This approval should not be extended to other aircraft of this model on which other previously approved modifications are incorporated unless it is determined that the interrelationships between this change and any other previously approved modifications will introduce no adverse effect upon the airworthiness of that aircraft. A copy of this certificate and FAA AML SA00871SE shall be maintained as part of the permanent records of the modified aircraft.

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: May 9, 2000

Date reissued: March 24, 2003; April 8, 2005

Date of issuance: January 25, 2001

Date amended: March 24, 2003; April 8, 2005



By direction of the Administrator

[Signature]
(Signature)

Acting Manager, Seattle 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.

**FAA APPROVED MODEL LIST (AML) SA00871SE
FOR
INSTALLATION OF ROSEN SUNVISOR SYSTEMS COCKPIT SUN VISOR**

ISSUE DATE: January 25, 2001

ITEM	AIRPLANE MAKE	AIRPLANE MODEL	TYPE CERTIFICATE NUMBER	CERTIFICATION BASIS FOR ALTERATION	FAA APPROVED DRAWING LIST		AML AMENDED
					NUMBER	REVISION NO. AND DATE	DATE
1.	Cessna	150, 150A, 150B, 150C, 150D, 150E, 150F, 150G, 150H, 150J, 150K, A150K, 150L, A150L, 150M, A150M, 152, A152	3A19	CAR 3	9050-0118-013	Revision C, 9/30/04	3/24/03 4/8/05
2.	Cessna	170, 170A, 170B	A-799	CAR 3	9050-0118-013	Revision C, 9/30/04	3/24/03 4/8/05
3.	Cessna	172, 172A, 172B, 172C, 172D, 172E, 172F (USAF T-41A), 172G, 172H (USAF T-41A), 172I, 172K, 172L, 172M, 172N, 172P, 172Q, 172R	3A12	CAR 3	9050-0118-013	Revision C, 9/30/04	3/24/03 4/8/05
4.	Cessna	172S	3A12	FAR 23	9050-0118-013	Revision C, 9/30/04	3/24/03 4/8/05
5.	Cessna	172RG, P172D, R172E (USAF T-41B) (USAF T-41C and D), R172F (USAF T-41D), R172G (USAF T-41C or D), R172H (USAF T-41D), R172J, R172K, 175, 175A, 175B, 175C	3A17	CAR 3	9050-0118-013	Revision C, 9/30/04	3/24/03 4/8/05
6.	Cessna	180, 180A, 180B, 180C, 180D, 180E, 180F, 180G, 180H, 180J, 180K	5A6	CAR 3	9050-0118-013	Revision C, 9/30/04	3/24/03 4/8/05
7.	Cessna	182, 182A, 182B, 182C, 182D, 182E, 182F, 182G, 182H, 182J, 182K, 182L, 182M, 182N, 182P, 182Q, 182R, 182T, R182, T182, TR182, T182T	3A13	CAR 3	9050-0118-013	Revision C, 9/30/04	3/24/03 4/8/05
8.	Cessna	182S	3A13	FAR 23	9050-0118-013	Revision C, 9/30/04	3/24/03 4/8/05
9.	Cessna	185, 185A, 185B, 185C, 185D, 185E, A185E, A185F	3A24	CAR 3	9050-0118-013	Revision C, 9/30/04	3/24/03 4/8/05



European Aviation Safety Agency

SUPPLEMENTAL TYPE CERTIFICATE

10031251

This Supplemental Type Certificate is issued by EASA, acting in accordance with Regulation (EC) No. 216/2008 on behalf of the European Community, its Member States and of the European third countries that participate in the activities of EASA under Article 66 of that Regulation and in accordance with Commission Regulation (EC) No. 1702/2003 to

ROSEN SUNVISOR SYSTEMS LLC
86365 COLLEGE VIEW ROAD
EUGENE, OREGON 97405
USA

and certifies that the change in the type design for the product listed below with the limitations and conditions specified meets the applicable Type Certification Basis and environmental protection requirements when operated within the conditions and limitations specified below:

Original Product TC Number: SEE EASA APPROVED MODEL LIST
TC Holder: CESSNA AIRCRAFT COMPANY
Model: SEE EASA APPROVED MODEL LIST
Original STC Number: FAA STC SA00871SE

EASA Certification Basis:
CS 23.C, CAR 23

Description of Design Change:
Installation of Sunvisor

Associated Technical Documentation:
According to Rosen Sunvisor System, LLC Master Drawing List No. 9050-0118-013, Rev. F or later
FAA approved Revisions

Limitations:
None

See Continuation Sheet(s)

For the European Aviation Safety Agency,

Date of issue: 04.08.2010

European Aviation Safety Agency
Paul HATTON
Project Certification Manager
General Aviation
Tel: +49 221 89990 4057
paul.hatton@easa.europa.eu

Note:
The following numbers are listed on the certificate:
EASA current Project Number: 0010000245-001
EASA old Project Number: P-EASA.IM.A.S.03270
SUPPLEMENTAL TYPE CERTIFICATE - 10031251 - ROSEN SUNVISOR SYSTEMS LLC

**FAA APPROVED MODEL LIST (AML) SA00871SE
FOR
INSTALLATION OF ROSEN SUNVISOR SYSTEMS COCKPIT SUN VISOR**

ISSUE DATE: January 25, 2001

ITEM	AIRPLANE MAKE	AIRPLANE MODEL	TYPE CERTIFICATE NUMBER	CERTIFICATION BASIS FOR ALTERATION	FAA APPROVED DRAWING LIST		AML AMENDED
					NUMBER	REVISION NO. AND DATE	DATE
10.	Cessna	206, P206, P206A, P206B, P206C, P206D, P206E, TP206A, TP206B, TP206C, TP206D, TP206E, U206, U206A, U206B, U206C, U206D, U206E, U206F, U206G, TU206A, TU206B, TU206C, TU206D, TU206E, TU206F, TU206G, 206H, T206H	A4CE	CAR 3	9050-0118-013	Revision C, 9/30/04	3/24/03 4/8/05
11.	Cessna	207, 207A, T207, T207A	A16CE	FAR 23	9050-0118-013	Revision C, 9/30/04	3/24/03 4/8/05
12.	Cessna	210, 210A, 210B, 210C, 210D, 210E, 210F, 210-5 (205), 210-5A (205A), T210F, 210G, 210H, T210H, T210G, 210J, T210J, T210L, 210K, 210L, T210K, 210M, T210M, 210N, P210N, T210N, 210R, P210R, T210R	3A21	CAR 3	9050-0118-013	Revision C, 9/30/04	3/24/03 4/8/05

FAA APPROVED:

L. J. McCallister
Acting Manager, Seattle Aircraft
Certification Office

REISSUED:

AMENDED:

March 24, 2003; April 8, 2005



Rosen P/N: **R1180003-0**

Description: CESSNA -3 210 SYSTEM

Customer P/N: RCS-300-3

Model: CESSNA-3 (210)

FAA-PMA
(PQ2393NM)

STC No: SA00871SE

Insp:



Date:

JAN 05 2012

SERIAL No: M089026





U.S. 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 USA N6195B	Serial No. 21062705	
	Make CESSNA	Model T210M	Series
2. Owner	Name (As shown on registration certificate) STP AIRCRAFT PARTNERSHIP		Address (As shown on registration certificate) 6441 Piney Creek Circle
	City Aurora		State CO
	Zip 80016		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 Eric R. Lundquist	Address 13124 Mercury Drive City Littleton State CO Zip 80124 Country United States	<input checked="" type="checkbox"/> U. S. Certificated Mechanic	Manufacturer
		Foreign Certificated Mechanic	C. Certificate No.
		Certificated Repair Station	A&P 3442975
		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 March 10, 2010 Eric R. Lundquist
--	---

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	X Inspection Authorization	Other (Specify)

Certificate or Designation No. 3442975	Signature/Date of Authorized Individual March 10, 2010 Eric R. Lundquist
---	---

5

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.)

USA N6195B

03/10/2010

Nationality and Registration Mark

Date

Cessna

T210M

S/N: 21062705

N6195B

1. Removed factory installed GE4591 landing light assembly.
2. Installed Knots 2U, LTD. High Intensity Discharge Light Assembly Kit No. KT4470-24 per STC No. SA01834CH issued 12-02-2005, Rev. C dated 11-01-2006 and Installation Manual No. HID-C-002 as listed on AML amended 03-14-2007.
3. Operational check and radio EMI interference check per Section 8.0 of Installation Instructions good.
4. The Aircraft Weight and Balance and Equipment List have been revised to reflect this installation.
5. Instructions for Continued Airworthiness have been incorporated into the Aircraft Records and a copy attached to this FAA Form 337.

-----END-----

☐ Additional Sheets Are Attached

United States of America
Department of Transportation - Federal Aviation Administration

Supplemental Type Certificate

Number SA01834CH

This certificate issued to

Knots 2U, Ltd.
703 Airport Road
Burlington, WI 53105

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

Make : * List (AML) No. SA01834CH for list of

Model : * Approved airplane models and applicable airworthiness regulations)

Description of Type Design Change:

Installation of the High Intensity Discharge Light Assembly Kit in accordance with Knots 2U Installation Instructions as listed on AML No. SA01834CH, amended March 14, 2007, or later FAA approved revisions.

Limitations and Conditions:

1. The installer must determine whether this design change is compatible with previously approved modifications. 2. A copy of this Certificate and FAA Approved Model List (AML) No. SA01834CH, amended March 14, 2007, or later FAA approved revisions, must be maintained as part of the permanent records for the modified aircraft. 3. The High Intensity Discharge Light Assembly Kit RMDHID is to be inspected and maintained in accordance with Knots 2U Installation Instructions as listed on AML No. SA01834CH, amended March 14, 2007, or later FAA approved revisions. 4. If the holder agrees to permit another person to use this certificate to alter a product, the holder must 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 : October 08, 2002

Date reissued :

Date of issuance : May 16, 2003

Date amended : March 14, 2007



By direction of the Administrator


(Signature)
Gregory J. Michalik, Senior Aerospace Engineer
Airframe & Administrative Branch
Chicago Aircraft Certification Office

(Title)

FAA APPROVED MODEL LIST (AML) NO. SA01834CH
KNOTS 2U, LTD.
FOR
INSTALLING HIGH INTENSITY DISCHARGE (HID) LIGHT FOR WINGTIPS

ISSUE DATE: 5/16/03

ITEM	AIRCRAFT MAKE	AIRCRAFT MODEL	ORIGINAL TYPE CERTIFICATE NUMBER	CERTIFICATION BASIS FOR ALTEIATION	INSTALLATION INSTRUCTIONS		AFM SUPPLEMENT NUMBER/DATE	AML AMENDMENT DATE
					NUMBER	REVISION NO. & DATE		
25	Raytheon Aircraft Company	45 (YT-34), A45 (T-34A, B-45), D45 (T-34B)	5A3	CAR 3	Beechcraft Bonanza HID Landing Light Assembly Kit Installation Manual	No Revision Dated 5/8/05	N/A	6/13/06
26	Raytheon Aircraft Company	D55, D55A, E55, B55A, 56TC, A56TC, 58, 58A, 95, 95-55, 95-A55, 95-B55, 95-B55A, 95-B55B (T-42A), 95-C55, 95-C55A, B95, B95A, D95A, E95	3A16	CAR 3	Installation Manual No. HID-B-002 or Installation Manual No. HID-B-003	Revision C, Dated 11/1/06 Revision C, Dated 11/1/06	N/A	3/14/07
27	Raytheon Aircraft Company	58P, 58PA, 58TC, 58TCA	A23CB	CAR 3	Installation Manual No. HID-B-002 or Installation Manual No. HID-B-003	Revision C, Dated 11/1/06 Revision C, Dated 11/1/06	N/A	3/14/07
28	Cessna Aircraft Company	180J, 180K	5A6	CAR 3	Installation Manual No. HID-C-002	Revision C, Dated 11/1/06	N/A	3/14/07
29	Cessna Aircraft Company	182P, 182Q, 182R, R182, T182, TR182	3A13	CAR 3	Installation Manual No. HID-C-002	Revision C, Dated 11/1/06	N/A	3/14/07
30	Cessna Aircraft Company	A185F	3A24	CAR 3	Installation Manual No. HID-C-002	Revision C, Dated 11/1/06	N/A	3/14/07
31	Cessna Aircraft Company	TU206F, TU206G, U206F, U206G	A4CE	CAR 3	Installation Manual No. HID-C-002	Revision C, Dated 11/1/06	N/A	3/14/07
32	Cessna Aircraft Company	210L, 210M, 210N, 210R, P210N, P210R, T210L, T210M, T210N, T210R	3A21	CAR 3	Installation Manual No. HID-C-002	Revision C, Dated 11/1/06	N/A	3/14/07
33	Cessna Aircraft Company	337G, 337H, P337H, T337G, T337H, T337H-SP	A6CE	FAR 23	Installation Manual No. HID-C-002	Revision C, Dated 11/1/06	N/A	3/14/07
34	Reims Aviation S.A.	F337G, FT337GP, F337H, FT337HP	A23BU	FAR 23	Installation Manual No. HID-C-002	Revision C, Dated 11/1/06	N/A	3/14/07
35	Reims Aviation S.A.	F182P, F182Q, FR182	A42EU	FAR 23	Installation Manual No. HID-C-002	Revision C, Dated 11/1/06	N/A	3/14/07

Section 6.0

Instructions for Continued Airworthiness

Knots 2U, Ltd.
703 Airport Road
Burlington, WI 53105
262.763.5100
www.knots2u.com

FAA APPROVED

MAR 14 2007
[Signature]
CHICAGO AIRCRAFT
CERTIFICATION OFFICE
CENTRAL REGION

Trouble Shooting

Problem	Solution	Comments
Light circuit breaker "pops" frequently.	Check wires for a short circuit. Remove and replace ballast.	Contact Knots 2U, Ltd. for a replacement.
HID Light does not illuminate, illuminates slowly or does not go to full power.	Replace bulb and / or ballast, verify function.	Contact Knots 2U, Ltd. for a replacement.

Maintenance / Inspection Requirements

Scheduled Inspections

Inspection	Time interval	Comments
Remove landing light retainer and lens, inspect; A) Ballast for mounting security and general condition. B) Bulb housing, bulb and retainer plate for security and general condition.	Annual or 200 hours, whichever comes first.	Contact Knots 2U, Ltd. for a replacement.

Unscheduled Inspections

Inspection	Event	Comments
Remove landing light retainer and lens, inspect; A) Ballast for mounting and security B) Bulb housing, bulb and retainer plate for security and general condition. C) Perform function test.	Hard landing, Lightning Strike.	Contact Knots 2U, Ltd. for a replacement.



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 USA N6195B	Serial No. 21062705
	Make CESSNA	Model T210
2. Owner	Name (As shown on registration certificate) STP AIRCRAFT PARTNERSHIP	Address (As shown on registration certificate) 6441 PINEY CREEK CIRCLE
		City AURORA State CO Zip 80016 Country UNITED STATES

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 checked="" type="checkbox"/>	POWERPLANT	Teledyne Continental Motors	TSIO-520-R	217425-R
<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 RAM Aircraft, Limited Partnership		U. S. Certified Mechanic	Manufacturer
Address 7505 Karl May Drive		Foreign Certified Mechanic	C. Certificate No.
City Waco State Texas		<input checked="" type="checkbox"/> Certified Repair Station	Airframe Class III, Powerplant Class I
Zip 76708 Country United States		Certified Maintenance Organization	VA1R551K

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 Anthony S. Czajkowski 4/4/11 <i>Anthony S. Czajkowski</i>
--	--

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 <input checked="" type="checkbox"/>	Repair Station	Inspection Authorization	Other (Specify)
Signature/Date of Authorized Individual Anthony S. Czajkowski 4/4/11 <i>Anthony S. Czajkowski</i>		Certificate or signature No. VA1R551K		

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.)

USA

N6195B

4/4/11

Nationality and Registration Mark

Date

Engine modified per Dwg. 1157, Rev. AP, dated 9/09/09 I/A/W STC SE3630SW-D.

Installed Slick pressurized magnetos P/N 6320 per Dwg. 1068, Rev. N, dated 1/02/07 I/A/W STC SE4651SW-D.

Installation mechanic must complete Block 1 and 2 on reverse side and mail one copy to the Federal Aviation Administration, Aircraft Registration Branch AFS-750, P.O. BOX 25504, Oklahoma City, Oklahoma 73125.

Negligible weight and balance change.


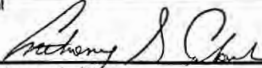
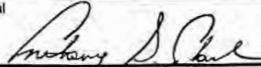
Customer furnished with FAA approved Overhaul and Parts Manual Supplements with instructions for continued airworthiness for all alterations.

Pertinent details of the above installations are on file under Project No. 5676.

— End —

☐ Additional Sheets Are Attached

SLICK MAGS

 US Department of Transportation Federal Aviation Administration		Form Approved OMB No. 2120-0020 11/30/2007		Electronic Tracking Number	
MAJOR REPAIR AND ALTERATION (Airframe, Powerplant, Propeller, or Appliance)					
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			Serial No.	
	Make			Model	Series
2. Owner	Name (As shown on registration certificate)			Address (As shown on registration certificate)	
				Address	
				City _____ State _____	
				Zip _____ Country _____	
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 checked="" type="checkbox"/>	POWERPLANT	Teledyne Continental Motors	TSIO-520-R	217425-R
<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>RAM Aircraft, Limited Partnership</u>			U. S. Certificated Mechanic		Manufacturer
Address <u>7505 Karl May Drive</u>			Foreign Certificated Mechanic		C. Certificate No.
City <u>Waco</u> State <u>Texas</u>			<input checked="" type="checkbox"/> Certificated Repair Station		Airframe Class III, Powerplant Class I
Zip <u>76708</u> Country <u>United States</u>			Certificated Maintenance Organization		VA1R551K
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 Anthony S. Czajkowski 4/4/11 			
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 Flt. Standards Inspector	Manufacturer	Maintenance Organization	Persons Approved by Canadian Department of Transport	
	FAA Designee <input checked="" type="checkbox"/>	Repair Station	Inspection Authorization	Other (Specify)	
Certificate or Registration No. VA1R551K		Signature/Date of Authorized Individual Anthony S. Czajkowski 4/4/11 			

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.)

Nationality and Registration Mark

4/4/11

Date

Engine modified per Dwg. 1157, Rev. AP, dated 9/09/09 I/AW STC SE3630SW-D.

Installed Slick pressurized magnetos P/N 6320 per Dwg. 1068, Rev. N, dated 1/02/07 I/AW STC SE4651SW-D.

Installation mechanic must complete Block 1 and 2 on reverse side and mail one copy to the Federal Aviation Administration, Aircraft Registration Branch AFS-750, P.O. BOX 25504, Oklahoma City, Oklahoma 73125.


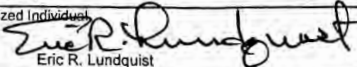
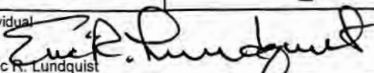
Negligible weight and balance change.

Customer furnished with FAA approved Overhaul and Parts Manual Supplements with instructions for continued airworthiness for all alterations.

Pertinent details of the above installations are on file under Project No. 5676.

— End —

☐ Additional Sheets Are Attached

 US Department of Transportation Federal Aviation Administration		Form Approved OMB No. 2120-0020 11/30/2007		Electronic Tracking Number
		For FAA Use Only		
MAJOR REPAIR AND ALTERATION (Airframe, Powerplant, Propeller, or Appliance)				
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 USA N6195B		Serial No. 21062705	
	Make CESSNA		Model T210M	Series
2. Owner	Name (As shown on registration certificate) STP AIRCRAFT PARTNERSHIP		Address (As shown on registration certificate) Address 6441 Piney Creek Circle	
			City Aurora State CO Zip 80016 Country United States	
3. For FAA Use Only				
4. Type		5. Unit Identification		
Repair	Alteration	Unit	Make	Model
<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 Eric R. Lundquist Address 13124 Mercury Drive City Littleton State CO Zip 80124-2926 Country United States		<input checked="" type="checkbox"/> U. S. Certificated Mechanic <input type="checkbox"/> Foreign Certificated Mechanic <input type="checkbox"/> Certificated Repair Station <input type="checkbox"/> Certificated Maintenance Organization		
		Manufacturer C. Certificate No. A&P 3442975		
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 August 22, 2011  Eric R. Lundquist			
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	Persons Approved by Canadian Department of Transport
	FAA Designee	Repair Station	<input checked="" type="checkbox"/> Inspection Authorization	Other (Specify)
Certificate or Designation No. 3442975		Signature/Date of Authorized Individual August 22, 2011  Eric R. Lundquist		

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.)

USA N6195B

08/22/2011

Nationality and Registration Mark

Date

Cessna

T210M

S/N: 21062705

N6195B

1. Removed graphic engine monitor model no. GEM-603, s/n: 4042 installed in accordance with Insight Instrument Corp. (STC) No. SA157NE on 9 January 1990, and installed new Insight G3 graphic engine monitor p/n: 610C-001, s/n: 1191 using components provided in G3 engine monitor upgrade kit p/n: 610C-062-2U.
2. Installation of graphic engine monitor model no. GEM 610C as primary CHT, EGT, and TIT was installed per Installation Manual for GEM 610C-001, Document No. 070906, Rev 1.2 in accordance with Insight Instrument Corp. (STC) No. SA02930NY, dated 01 March 2011.
3. The Aircraft Equipment List and Weight and Balance have been revised to reflect this installation and the Flight Manual Supplement has been incorporated into the Airplane Flight Manual.
4. There are no scheduled maintenance checks of the GEM 610C instrument. The instrument features a built-in test, which is started automatically on power-up. The built-in test will detect instrument's malfunctions. The malfunction of a probe or sensor is indicated by the digital numerical value being replaced by dashes: "--" and the corresponding bar graph is removed from display. Maintenance of the installation including temperature probes/ transducers should be accomplished as per the AMM, in accordance with applicable airworthiness standards. No additional maintenance requirements are defined. Maintenance shall be on a Condition Monitoring basis; refer to FAA Procedures 8310.4, par. 3033. Any required maintenance must be accomplished by Insight Instrument Corporation. All maintenance functions will be accomplished using Maintenance Instructions for GEM 610C document number MI-G3, latest revision.

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☐ Additional Sheets Are Attached