

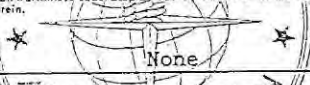
DEPARTMENT OF TRANSPORTATION FEDERAL AVIATION ADMINISTRATION APPLICATION FOR AIRWORTHINESS CERTIFICATE		INSTRUCTIONS—Print or type. Do not write in shaded areas; these are for FAA use only. Submit original only to an authorized FAA Representative. If additional space is required, use an attachment. For special flight permits complete Sections II and VI or VII as applicable.						
I. AIRCRAFT DESCRIPTION	1. REGISTRATION MARK N52908	2. AIRCRAFT BUILDER'S NAME (make) Cessna	3. AIRCRAFT MODEL DESIGNATION 177RG	4. YR. MFG. 1977	FAA COOSNG 2673749			
	5. AIRCRAFT SERIAL NO. 177RG1306	6. ENGINE BUILDER'S NAME (make) Lycoming	7. ENGINE MODEL DESIGNATION IO-360-ALB6D	41515				
	8. NUMBER OF ENGINES One	9. PROPELLER BUILDER'S NAME (make) McCaughey	10. PROPELLER MODEL DESIGNATION B2D34C207/78TCA-0	11. AIRCRAFT IS				
					EXPORT			
APPLICATION IS HEREBY MADE FOR: (Check applicable items)								
A <input checked="" type="checkbox"/> STANDARD AIRWORTHINESS CERT. (Indicate category) <input checked="" type="checkbox"/> NORMAL <input type="checkbox"/> UTILITY <input type="checkbox"/> ACROBATIC <input type="checkbox"/> TRANSPORT <input type="checkbox"/> GLIDER <input type="checkbox"/> BALLOON								
B SPECIAL AIRWORTHINESS CERTIFICATE (Check appropriate items)								
II. CERTIFICATION REQUESTED	2	LIMITED						
	5	PROVISIONAL (Indicate class)	1	CLASS I				
			2	CLASS II				
	3	RESTRICTED (Indicate operation(s) to be conducted)	1	AGRICULTURE & PEST CONTROL	2	AERIAL SURVEYING	3	AERIAL ADVERTISING
			4	FOREST (Wild life conservation)	5	PATROLLING	6	WEATHER CONTROL
			0	OTHER (Specify)				
	4	EXPERIMENTAL (Indicate operation(s) to be conducted)	1	RESEARCH AND DEVELOPMENT	2	AMATEUR BUILT	3	EXHIBITION
			4	RACING	5	CREW TRAINING	6	MET. SURVEY
			0	TO SHOW COMPLIANCE WITH FAR				
	8	SPECIAL FLIGHT PERMIT (Indicate operation to be conducted then complete Section VI or VII as applicable on reverse side)	1	FERRY FLIGHT FOR REPAIRS, ALTERATIONS, MAINTENANCE OR STORAGE				
2			EVACUATE FROM AREA OF IMPENDING DANGER					
3			OPERATION IN EXCESS OF MAX. CERTIFICATED TAKE-OFF WEIGHT					
4			DELIVERING OR EXPORT					
C <input checked="" type="checkbox"/> MULTIPLE AIRWORTHINESS CERTIFICATE (Check appropriate Restricted Operation and Standard or Limited as applicable above)								
III. OWNER'S CERTIFICATION	A. REGISTERED OWNER (As shown on Certificate of Aircraft Registration) IF DEALER, CHECK HERE <input checked="" type="checkbox"/>							
	NAME Cessna Aircraft Company		ADDRESS 5800 East Pawnee Road Wichita, Kansas 67201					
	B. AIRCRAFT CERTIFICATION BASIS (Check applicable blocks and complete items as indicated)							
	<input checked="" type="checkbox"/>	AIRCRAFT SPECIFICATION OR TYPE CERTIFICATION DATA SHEET (Give No. and Revision No.) A20CE Rev. 13	<input checked="" type="checkbox"/>	AIRWORTHINESS DIRECTIVES (Check if all applicable AD's complied with and give latest AD No.) 77-26				
	AIRCRAFT LISTING (Give Page No(s).)		SUPPLEMENTAL TYPE CERTIFICATE (List number of each STC incorporated)					
C. AIRCRAFT OPERATION AND MAINTENANCE RECORDS								
<input checked="" type="checkbox"/>	CHECK IF RECORDS IN COMPLIANCE WITH FAR 91.173	TOTAL AIRFRAME HOURS— 22	3 EXPERIMENTAL ONLY—Enter hours flown since last certificate issued or renewed					
D. CERTIFICATION—I hereby certify that I am the owner (or his agent) of the aircraft described above; that the aircraft is registered with the Federal Aviation Administration in accordance with Section 501 of the Federal Aviation Act of 1958, and applicable Federal Aviation Regulations; and that the aircraft has been inspected and is airworthy and eligible for the airworthiness certificate requested.								
DATE OF APPLICATION 1-7-78		NAME AND TITLE (Print or type) William A. Boettger, Pawnee Div. Gen. Mgr.		SIGNATURE <i>William A. Boettger</i>				
IV. INSPECTION AGENCY VERIFICATION	A. THE AIRCRAFT DESCRIBED ABOVE HAS BEEN INSPECTED AND FOUND AIRWORTHY BY: (Complete this section only if FAR 21.183(d) applies)							
	2	FAR PART 121 OR 127 CERTIFICATE HOLDER (Give Certificate No.)	3	CERTIFICATED MECHANIC (Give Certificate No.)	6	CERTIFICATED REPAIR STATION (Give Certificate No.)		
	5	AIRCRAFT MANUFACTURER (Give Name of Firm)						
DATE		TITLE		SIGNATURE				
V. FAA REPRESENTATIVE CERTIFICATION	(Check ALL applicable blocks) I find that the aircraft described in Section I or VII meets the requirements for: <input checked="" type="checkbox"/> The certification requested, or <input type="checkbox"/> Amendment or modification of its current airworthiness certificate. Inspection for a special flight permit under Section VII was conducted by: <input type="checkbox"/> FAA Inspector, <input type="checkbox"/> FAA Inspector, certificate holder under FAR 65, <input type="checkbox"/> FAR 121 or 127, or <input type="checkbox"/> FAR 145.							
	DATE 1-21-78	DISTRICT OFFICE ICT EMDO 3-0-43	DESIGNEE'S SIGNATURE AND NO. Cessna Aircraft Co., Pawnee Div. Delegation Option Manufacturer, CE-1 <i>L. E. Spalding</i> L. E. Spalding		FAA INSPECTOR'S SIGNATURE			

VI. PRODUCTION FLIGHT TESTING	A. MANUFACTURER		
	NAME		ADDRESS
	B. PRODUCTION BASIS (Check applicable item)		
	PRODUCTION CERTIFICATE (Give production certificate number)		
	TYPE CERTIFICATE ONLY		
	APPROVED PRODUCTION INSPECTION SYSTEM		
	C. GIVE QUANTITY OF CERTIFICATES REQUIRED FOR OPERATING NEEDS:		
	DATE OF APPLICATION	NAME AND TITLE (Print or type)	SIGNATURE
VII. SPECIAL FLIGHT PERMIT PURPOSES OTHER THAN PRODUCTION FLIGHT TEST	A. DESCRIPTION OF AIRCRAFT		
	REGISTERED OWNER		ADDRESS
	BUILDER (Make)		MODEL
	SERIAL NUMBER		REGISTRATION MARK
	B. DESCRIPTION OF FLIGHT		
	FROM		TO
	VIA	DEPARTURE DATE	DURATION
	C. CREW REQUIRED TO OPERATE THE AIRCRAFT AND ITS EQUIPMENT		
	PILOT	CO-PILOT	NAVIGATOR
	OTHER (Specify)		
D. THE AIRCRAFT DOES NOT MEET THE APPLICABLE AIRWORTHINESS REQUIREMENTS AS FOLLOWS:			
E. THE FOLLOWING RESTRICTIONS ARE CONSIDERED NECESSARY FOR SAFE OPERATION (Use attachment if necessary)			
F. CERTIFICATION—I hereby certify that I am the registered owner (or his agent) of the aircraft described above; that the aircraft is registered with the Federal Aviation Administration in accordance with Section 301 of the Federal Aviation Act of 1958, and applicable Federal Aviation Regulations; and that the aircraft has been inspected and is airworthy for the flight described.			
DATE	NAME AND TITLE (Print or type)	SIGNATURE	
VIII. AIRWORTHINESS DOCUMENTATION (FAA use only)	<input checked="" type="checkbox"/> A. Operating Limitations and Markings in Compliance with FAR 91.31 & Applicable	G. Statement of Conformity, FAA Form 317 (Attach when required)	
	<input type="checkbox"/> B. Current Operating Limitations Attached	H. Foreign Airworthiness Certification for Import Aircraft (Attach when required)	
	<input type="checkbox"/> C. Data, Drawings, Photographs, etc. (Attach when required)	I. Previous Airworthiness Certificate Issued in Accordance with FAR _____ CAR _____ (Original attached)	
	<input checked="" type="checkbox"/> D. Current Weight and Balance Information Available in Aircraft	J. Current Airworthiness Certificate Issued in Accordance with FAR 21.183 (B) _____ (Copy attached)	
	<input type="checkbox"/> E. Major Repair and Alteration, FAA 337 (Attach when required)		
	<input checked="" type="checkbox"/> F. This Inspection Recorded in Aircraft Records		

UNITED STATES OF AMERICA
DEPARTMENT OF TRANSPORTATION-FEDERAL AVIATION ADMINISTRATION
STANDARD AIRWORTHINESS CERTIFICATE

1. NATIONALITY AND REGISTRATION MARKS N52908	2. MANUFACTURER AND MODEL Cessna 177RG	3. AIRCRAFT SERIAL NUMBER 177RG1308	4. CATEGORY Normal
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5. AUTHORITY AND BASIS FOR ISSUANCE
This airworthiness certificate is issued pursuant to the Federal Aviation Act of 1958 and certifies that, as of the date of issuance, the aircraft to which issued has been inspected and found to conform to the type certificate therefor, to be in condition for safe operation, and has been shown to meet the requirements of the applicable comprehensive and detailed airworthiness code as provided by Annex 8 to the Convention on International Civil Aviation, except as noted herein.
Exceptions:



6. TERMS AND CONDITIONS
Unless sooner surrendered, suspended, revoked, or a termination date is otherwise established by the Administrator, this airworthiness certificate is valid as long as the maintenance, preventative maintenance, and alterations are performed in accordance with Parts 43, 44, and 45 of the Federal Aviation Regulations, as appropriate, and the aircraft is registered in the United States of America.

DATE OF ISSUANCE 1-21-78	FAA REPRESENTATIVE <i>[Signature]</i>	DESIGNATION NUMBER PC4
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Any alteration, reproduction, or misuse of this certificate may be punishable by a fine not exceeding \$1,000, or imprisonment not exceeding 3 years, or both. THIS CERTIFICATE MUST BE DISPLAYED IN THE AIRCRAFT IN ACCORDANCE WITH APPLICABLE FEDERAL AVIATION REGULATIONS.



US Department of Transportation
Federal Aviation Administration

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

Form Approved
OMB No. 2120-0020

For FAA Use Only
Office Identification

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

1. Aircraft	Make CESSNA	Model 177RG
	Serial No. 177RG-1306	Nationality and Registration Mark USA N52908
2. Owner	Name (As shown on registration certificate) DONALD COGGAN	Address (As shown on registration certificate) 15849 LOCKSHORE RICHLAND, MICHIGAN 49083

3. For FAA Use Only

THIS SECTION IS APPROVED FOR YOUR FLIGHT ONLY AND THE AIRCRAFT IMPROVEMENT

4. Unit Identification

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

6. Conformity Statement

A. Agency's Name and Address Mayday Avionics Kent Co. Int. Airport Grand Rapids, MI 49512	B. Kind of Agency <input type="checkbox"/> U.S. Certificated Mechanic <input type="checkbox"/> Foreign Certificated Mechanic <input checked="" type="checkbox"/> Certificated Repair Station <input type="checkbox"/> Manufacturer	C. Certificate No. #IT5R947M Radio 1, 2, & 3 Limited Instrument
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D. I certify that the repair and/or alteration made to the unit(s) identified in item 4 above and described on the reverse or attachments hereto have been made in accordance with the requirements of Part 43 of the U.S. Federal Aviation Regulations and that the information furnished herein is true and correct to the best of my knowledge.

Date 11-13-91	Signature of Authorized Individual KENNETH R. MALONE
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7. Approval for Return To Service

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

BY	FAA Flt. Standards Inspector	Manufacturer	Inspection Authorization	Other (Specify)
	FAA Designee <input checked="" type="checkbox"/>	Repair Station	Person Approved by Transport Canada Airworthiness Group	

Date of Approval or Rejection 11-13-91	Certificate or Designation No. #IT5R947M	Signature of Authorized Individual KENNETH R. MALONE
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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.)

REMOVED NARCO DME890 SYSTEM. INSTALLED ARNAV R-50I LORAN C SYSTEM.

THE R-50i SYSTEM CONSISTS OF THE RECEIVER AND THE ANTENNA/PREAMP. SYSTEM IS INTERFACED WITH A CESSNA NAVOMATIC 300A AUTOPILOT AND A MID CONTINENT MD40-21L LORAN CDI/ANNUNCIATOR. THE RECEIVER IS MOUNTED IN THE FACTORY AVIONICS STACK. THE ANTENNA IS MOUNTED ON THE BOTTOM OF THE AIRCRAFT AT STATION 202.0. THE MD40-21L IS MOUNTED ON THE LEFT SIDE OF THE PILOT'S INSTRUMENT PANEL.

SYSTEM WAS INSTALLED PER ARNAV INSTALLATION MANUAL PN570-1023B USING FAR AC43-13-1A, CHAPTER 11, SECTION 3 & 7 AND AC43-13-2A, CHAPTER 2 & 3 AS A GUIDELINE.


THIS SYSTEM IS APPROVED FOR VFR FLIGHT ONLY AND THE AIRCRAFT INSTRUMENT PANEL HAS BEEN PLACARDED ACCORDINGLY.

THE WEIGHT AND BALANCE HAS BEEN REVISED AND THE AIRCRAFT LOG BOOK ENTRY COMPLETED.

*****END*****

Additional Sheets Are Attached

Removed 2/29/92

 <p style="text-align: center;">MAJOR REPAIR AND ALTERATION (Airframe, Powerplant, Propeller, or Appliance)</p> <p>US Department of Transportation Federal Aviation Administration</p>	<p>Form Approved OMB No. 2120-0020</p> <p style="text-align: center;">For FAA Use Only</p> <p>Office Identification</p>
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INSTRUCTIONS: Print or type all entries. See FAR 43.9, FAR 43 Appendix B, and AC 43.9-1 (or subsequent revision thereof) for instructions and disposition of this form. This report is required by law (49 U.S.C. 1421). Failure to report can result in a civil penalty not to exceed \$1,000 for each such violation (Section 901 Federal Aviation Act of 1958).

1. Aircraft	Make Cessna	Model 177RG
	Serial No. 177RG-1306	Nationality and Registration Mark USA N52908
2. Owner	Name (As shown on registration certificate) Donald Coggan	Address (As shown on registration certificate) 15849 Lockshore Richland, Michigan 49083

3. For FAA Use Only

"The data identified herein complies with the applicable airworthiness requirements and is approved for the above described aircraft, subject to conformity inspection by a person authorized in FAR Part 43, Section 43.7."

GRR FSDO JUN 24 1992 *W. L. H. K. W.*
 District Office Date Signature of FAA Inspector

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

6. Conformity Statement

A. Agency's Name and Address Mayday Avionics, Inc. 5500 44th Street S.E. Grand Rapids, Michigan 49512	B. Kind of Agency U.S. Certificated Mechanic Foreign Certificated Mechanic <input checked="" type="checkbox"/> Certificated Repair Station Manufacturer	C. Certificate No. IT5R947M
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D. I certify that the repair and/or alteration made to the unit(s) identified in item 4 above and described on the reverse or attachments hereto have been made in accordance with the requirements of Part 43 of the U.S. Federal Aviation Regulations and that the information furnished herein is true and correct to the best of my knowledge.

Date <i>7/29/92</i>	Signature of Authorized Individual <i>Kenneth Malone</i>
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7. Approval for Return To Service

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

BY	FAA Fit. Standards Inspector	Manufacturer	Inspection Authorization	Other (Specify)
	FAA Designee	<input checked="" type="checkbox"/> Repair Station	Person Approved by Transport Canada Airworthiness Group	
Date of Approval or Rejection <i>7/29/92</i>		Certificate or Designation No. IT5R947M	Signature of Authorized Individual <i>Kenneth Malone</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.)

Approved the previously installed Arnav FMS5000 Loran C System for IFR Enroute flight. The System consists of the FMS5000 Receiver, Antenna and MD40-21L CDI.

The FMS5000 Receiver is TSO'd per C60b & C115a. The receiver is located in the factory avionics stack. This system is interfaced with the Cessna 300A Autopilot and the Mid Continent MD40-21L CDI. The MD40-21L is located in the left side of the pilot's instrument panel. The external Loran Annunciators are located in the MD40-21L CDI.

This system was installed in accordance with the Arnav FMS5000 Installation Manual. Reference the 337 form on this aircraft dated 11-13-92 & 6-15-92 for further details. This approval is based on STC SA5703NM using AC20-121 as a guideline. This system is approved for Enroute only and the instrument panel has been placarded "Loran C not approved for Approaches".

The aircraft has been ground checked and test flown over the following check points with accuracy better than .10nm: GRR VOR, TVC VOR & AZO VOR. This system meets the minimum accuracy requirements of AC20-121 and AC90.45a for IFR approval. Flight Manual Supplement dated **JUL 16 1992** is required for this installation.

*****END*****

Additional Sheets Are Attached

U.S. DEPARTMENT OF TRANSPORTATION FEDERAL AVIATION ADMINISTRATION			DATE November 21, 1997
STATEMENT OF COMPLIANCE WITH THE FEDERAL AVIATION REGULATIONS			
AIRCRAFT OR AIRCRAFT COMPONENT IDENTIFICATION			
MAKE Cessna	MODEL NO. 177RG	TYPE (Airplane, Rotor, Helicopter, etc.) Airplane (Normal)	NAME OF APPLICANT Kalamazoo Aircraft Inc.
LIST OF DATA			
IDENTIFICATION	TITLE		
Report. N52908 Rev Ø, 11/21/97	Engineering Review, Window Installation		
Note: This approval is valid only for Cessna 177RG s/n 1306 and constitutes a major alteration to that aircraft.			
PURPOSE OF DATA To support a major alteration			
APPLICABLE REQUIREMENTS (List specific sections) FAR 23.301, .303, .305, .307, .561, .603, .605, .607, .609, .611, .613, .619, .773, .775			
CERTIFICATION - Under authority vested by direction of the Administrator and in accordance with conditions and limitations of appointment under Part 183 of the Federal Aviation Regulations, data listed above and on attached sheets numbered _____ as above have been examined in accordance with established procedures and found to comply with applicable requirements of the Federal Aviation Regulations.			
I (We) Therefore <input type="checkbox"/> Recommend approval of these data <input checked="" type="checkbox"/> Approve these data			
SIGNATURE(S) OF DESIGNATED ENGINEERING REPRESENTATIVE(S)	DESIGNATION NUMBER(S)	CLASSIFICATION(S)	
Ted D. Anderson	CHI-306	Structures	
Tod D. Anderson			

US Department
of Transportation
Federal Aviation
Administration

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

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

1. Aircraft	Make Cessna	Model 177RG
	Serial No. RG1306	Nationality and Registration Mark N52908
2. Owner	Name (As shown on registration certificate) COGGAN, DONALD W.	Address (As shown on registration certificate) 15849 LOCKSHORE RD. RICHLAND, MI. 49083

3. For FAA Use Only

[Handwritten signature]

4. Unit Identification

5. Type

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

6. Conformity Statement

A. Agency's Name and Address	B. Kind of Agency	C. Certificate No.
RALPH MICHALKA 2729 E. MILHAM RD. PORTAGE, MI. 49002	<input checked="" type="checkbox"/> U.S. Certificated Mechanic	A&P 1343891
	<input type="checkbox"/> Foreign Certificated Mechanic	
	<input type="checkbox"/> Certificated Repair Station	
	<input type="checkbox"/> Manufacturer	

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

Date 01-22-1998	Signature of Authorized Individual RALPH MICHALKA <i>Ralph Michalka</i>
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7. Approval for Return to Service

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

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

Date of Approval or Rejection 1/22/98	Certificate or Designation No. IA1343891	Signature of Authorized Individual RALPH MICHALKA <i>Ralph Michalka</i>
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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.)

REMOVED 2 EA. FORWARD CABIN WINDOWS AND INSTALLED AERO PLASTICS WINDOWS WHICH WERE MODIFIED BY AERO PLASTICS BY INSTALLING 4X6 INCH HINGED OPENINGS USING PIPER HINGES. SEE ATTACHED ENGINEERING REVIEW FOR APPROVAL OF WINDOWS.

INSTALLATION OF WINDOWS WAS DONE IN ACCORDANCE WITH CESSNA RG 177 SERVICE MANUAL.


CHANGE IN WEIGHT AND BALANCE NEGLIBABLE .

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

[Handwritten signature]

Additional Sheets Are Attached

Removed 5/2005

 U.S. Department of Transportation Federal Aviation Administration		MAJOR REPAIR AND ALTERATION (Airframe, Powerplant, Propeller, or Appliance)		Form Approved OMB No. 2120-0020	
				For FAA Use Only	
				Office Identification	
INSTRUCTIONS: Print or type all entries. See FAR 43.9, FAR 43 Appendix B, and AC 43.9-1 (or subsequent revision thereof) for instructions and disposition of this form. This report is required by law (49 U.S.C. 1421). Failure to report can result in a civil penalty not to exceed \$1,000 for each such violation (Section 901 Federal Aviation Act 1958)					
1. Aircraft	Make CESSNA		Model 177RG		
	Serial No. RG1306		Nationality and Registration Mark N52908		
2. Owner	Name (As shown on registration certificate) COGGAN, DONALD W.		Address (As shown on registration certificate) 15849 LOCKSHORE RD. RICHLAND, MI. 49083		
3. For FAA Use Only					
4. Unit Identification					5. Type
Unit	Make	Model	Serial No.	Repair	Alteration
AIRFRAME	~~~~~(As described in item 1 above)~~~~~			<input type="checkbox"/>	<input checked="" type="checkbox"/>
POWERPLANT	LYCOMING	IO-360A1B6D	L-17446-51A	<input type="checkbox"/>	<input checked="" type="checkbox"/>
PROPELLER				<input type="checkbox"/>	<input type="checkbox"/>
APPLIANCE	Type			<input type="checkbox"/>	<input type="checkbox"/>
	Manufacturer			<input type="checkbox"/>	<input type="checkbox"/>
6. Conformity Statement					
A. Agency's Name and Address		B. Kind of Agency		C. Certificate No.	
RALPH MICHALKA 2729 E. MILHAM RD PORTAGE, MI. 49002		<input checked="" type="checkbox"/> U.S. Certified Mechanic <input type="checkbox"/> Foreign Certified Mechanic <input type="checkbox"/> Certified Repair Station <input type="checkbox"/> Manufacturer		A&P1343891	
D. I certify that the repair and/or alteration made to the unit(s) identified in item 4 above and described on the reverse or attachments hereto have been made in accordance with the requirements of Part 43 of the U.S. Federal Aviation Regulations and that the information furnished herein is true and correct to the best of my knowledge.					
Date AUGUST 1, 1999			Signature of Authorized Individual <i>Ralph Michalka</i> RALPH MICHALKA		
7. Approval for Return to Service					
Pursuant to the authority given persons specified below, the unit identified in item 4 was inspected in the manner prescribed by the Administrator of the Federal Aviation Administration and is <input checked="" type="checkbox"/> APPROVED <input type="checkbox"/> REJECTED					
BY	<input type="checkbox"/> FAA Fit Standards Inspector	<input type="checkbox"/> Manufacturer	<input checked="" type="checkbox"/> Inspection Authorization		Other (Specify)
	<input type="checkbox"/> FAA Designee	<input type="checkbox"/> Repair Station	<input type="checkbox"/> Person Approved by Transport Canada Airworthiness Group		
Date of Approval or Rejection AUGUST 1,		Certificate or Designation No. IA1343891		Signature of Authorized Individual <i>Ralph Michalka</i> RALPH MICHALKA	

NOTICE

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

8. Description of Work Accomplished

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

INSTALLED ELECTRONICS INTERNATIONAL MODEL SR-8 DIGITAL AUTOMATIC ENGINE ANALYZER. INSTALLATION WAS DONE IN ACCORDANCE WITH INSTALLATION INSTRUCTIONS NO. 11 012881 11/28/88 AND STC SA4302NM.

INSTALLED SHADIN COMPANY FUEL FLOW INDICATION SYSTEM. INSTALLATION WAS DONE IN ACCORDANCE WITH REPORT 4050 3/9/82 AND AIRCRAFT ENGINE STC SE459GL AND AIRCRAFT SA 613GL.

WEIGHT AND BALANCE DATA UPDATED.

END

Additional Sheets Are Attached



US Department of Transportation
Federal Aviation Administration

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

Form Approved
OMB No. 2120-0020

For FAA Use Only
Office Identification

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

1. Aircraft	Make CESNA	Model 177RG
	Serial No. 177RG1306	Nationality and Registration Mark N52908
2. Owner	Name (As shown on registration certificate) BARCLAY GROUP, LLC	Address (As shown on registration certificate) 8145 N. 86TH PLACE Scottsdale, AZ 85258

The alteration/data identified herein complies with the applicable airworthiness requirements and is approved only for the above described aircraft subject to continuous inspection by a person authorized in FAR 43, section 43.7.

[Signature]
FAA INSPECTOR **DATE** *9-18-00*

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

6. Conformity Statement		
A. Agency's Name and Address FLIGHT TRAILS HELICOPTERS, INC. 4805 E. FALCON DR MESA, AZ 85215	B. Kind of Agency <input type="checkbox"/> U.S. Certificated Mechanic <input type="checkbox"/> Foreign Certificated Mechanic <input checked="" type="checkbox"/> XXX Certificated Repair Station <input type="checkbox"/> Manufacturer	C. Certificate No. IL3R583L RADIO CLASS I, II, III INSTRUMENT I, II, III, IV LMTD AIRFRAME & PWRPLNT

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

Date 9/28/00	Signature of Authorized Individual <i>[Signature]</i>
------------------------	--

7. Approval for Return To Service			
Pursuant to the authority given persons specified below, the unit identified in item 4 was inspected in the manner prescribed by the Administrator of the Federal Aviation Administration and is <input checked="" type="checkbox"/> APPROVED <input type="checkbox"/> REJECTED			
BY	FAA Flt. Standards Inspector	Manufacturer	Inspection Authorization
	FAA Designee	XXX Repair Station	Person Approved by Transport Canada Airworthiness Group
Date of Approval or Rejection 9/28/00		Certificate or Designation No. IL3R583L	Signature of Authorized Individual <i>[Signature]</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.)

MAKE: CESSNA MODEL: 177RG SN: 177RGL306 REG.#: N52908

REMOVED:
CESSNA AUDIO PANEL, ADF RECEIVER TRAY AND ANTENNA, RT-359A TRANSPONDER AND MARKER BEACON SYSTEMS
BENDIX/KING KX-155 NAV/COM RT W/KI-208 VOR/LOC CONVERTER/INDICATOR
RNAV R50; LORAN SYSTEM
INSTALLED:

1EA GARMIN GMA-340 AUDIO/INTERCOM PANEL TSO C35d, C50c IAW INSTALLATION AND OPERATIONS MANUAL PN 1990-00149-01 REV. E MAY 99.

1EA GARMIN GNS-430 VHF COMMUNICATIONS TRANCEIVER/VOR/ILS RECEIVER/GPS SYSTEM PN 010-00139-00 TSO C129a, C37d, C38d, C40c, C36e W/GA 56 GPS ANTENNA PN 010-100440-01 TSO C129 IAW GARMIN 400 SERIES INSTALLATION MANUAL PN 190-00140-02 REV. G APRIL 2000.

1EA GARMIN GI-106A COURSE INDICATOR PN 013-00049-01 TSO C34e, C36e, C40c IAW INSTALLATION MANUAL PN 190-00180-00 REV. B AND GNS 430 INSTALL MANUALS.

STC SA007050WI REFERENCED AS PREVIOUS APPROVED DATA. AC 20-138 PARA 8c(2) AND AC 20-138 APPENDIX 1 PARA 2a-d HAVE ALSO BEEN REFERENCED FOR THIS FOLLOW-ON IFR INSTALLATION.

THE PILOT'S GUIDE FOR THE GNS-430 REV. A PN 190-00140-00 AND QUICK REFERENCE GUIDE PN 190-00140-01 REV. A AND A SAMPLE FLIGHT MANUAL SUPPLEMENT PROVIDED FROM GARMIN FOR THIS SYSTEM HAVE BEEN PROVIDED AND INSTALLED IN THE AIRCRAFT AND SHOULD BE REFERENCED FOR ALL OPERATIONS AND PROCEDURES.

THIS SYSTEM HAS BEEN INSTALLED VFR OPERATION ONLY AT THIS TIME AND IS APPROVED FOR RETURN TO SERVICE FOR IFR EVALUATION. PLACARDS STATING; "GPS SYSTEM NOT APPROVED FOR IFR AT THIS TIME" AND "GPS SYSTEM APPROVED FOR VFR USE" HAVE BEEN INSTALLED IN CLEAR VIEW OF PILOT AND CO-PILOT.

1EA GARMIN GTX 327 TRANSPONDER TSO C74c IAW MANUFACTURERS INSTALLATION MANUAL PN 190-00187-02 REV. B, FEB 2000.

REFERENCE SPECIFIC AIRCRAFT AND/OR SYSTEM COMPONENT INSTALLATION/OPERATORS MANUALS FOR CONTINUED AIRWORTHINESS.

AC 43.13-1B CHAPTER 7, 11 AND 12, AC 43.13-2A CH 1 PARA 1-12 CH 2 PARA 21-23a,b,e,f & PARA 27 AND CH 3 HAVE ALSO BEEN REFERENCED AS GUIDELINES FOR THIS INSTALLATION.

EQUIPMENT LIST, WEIGHT AND BALANCE REVISED TO REFLECT THESE CHANGES.

ALL WORK ON FILE THIS REPAIR STATION.

*******END*******

Additional Sheets Are Attached



U.S. Department of Transportation

Federal Aviation Administration

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

Form Approved
OMB No. 2120-0020

For FAA Use Only

Office Identification

INSTRUCTIONS: Print or type all entries. See FAR 43.9, FAR 43 Appendix B, and AC 43.9-1 (or subsequent revision thereof) for instructions and disposition of this form. This report is required by law (49 U.S.C. 1421). Failure to report can result in a civil penalty not to exceed \$1000 for each such violation (Section 901 Federal Aviation Act of 1958)

1. Aircraft	Make CESSNA	Model C-177RG
	Serial No. 177RG1306	Nationality and Registration Mark N52908
2. Owner	Name (As shown on registration certificate) Barclay Group	Address (As shown on registration certificate) 8145 N. 86 th Place Scottsdale, AZ 85258

3. For FAA Use Only

The data identified herein complies with the applicable airworthiness requirements and is approved only for the above described aircraft subject to conformity inspection by a person authorized in FAR 43, section 43.7

[Signature] *10/24/01*

FAA INSPECTOR

4. Unit Identification

5. Type

Unit	Make	Model	Serial No.	Repair	Alteration
Airframe	(As described in Item 1 above)				X
Powerplant					
Propeller					
Appliance	Type				
	Mnfctr				

6. Conformity Statement

D. Agency's Name and Address Flight Trails Helicopters, Inc. 4805 E. FALCON DR. MESA, AZ 85215	B. Kind of Agency <input type="checkbox"/> U.S. Certificated Mechanic <input type="checkbox"/> Foreign Certificated Mechanic <input checked="" type="checkbox"/> Certificated Repair Station <input type="checkbox"/> Manufacturer	C. Certificate No. IL3R583L RADIO CLASS I, II, III INSTRUMENT I, II, III, IV LMTD AIRFRAME & PWRPLNT
---	--	--

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

Date 10-24-01	Signature of Authorized Individual <i>Alan G. Watkins</i> Alan G. Watkins
------------------	---

7. Approval for Return to Service

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

BY	FAA Fit. Standards Inspector	Manufacturer	Inspection Authorization	Other (specify)
	FAA Designee	<input checked="" type="checkbox"/> Repair Station	Person Appr. by Transport Canada Airworthiness Group	

Date of Approval or Rejection 10-24-01	Certificate or Designation No. IL3R583L	Signature of Authorized Individual <i>Alan G. Watkins</i> Alan G. Watkins
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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.)

Cessna 177RG

N52908

S/N 177RG1306

Reference: AC20-138 Appendix 1 Para. 2: Follow-On GPS Equipment for IFR use.

PARA 2a: Data submitted by the applicant;

FAA form 337 filed 9/28/00, Copy of the Garmin GNS 430 GPS system flight test evaluation report for IFR approval of GPS navigation for the installation dated October 14, 2000.

PARA 2c: Aircraft Flight Manual Supplement:

GNS 430 Flight Manual Supplement written, evaluated and approved for this installation dated 10-24-01

PARA 2d: Functional Flight Evaluation:

The Garmin GNS 430 system has been functionally flight-tested using the guidelines in AC 20-138 PARA 8c(2) (iv), (See flight test evaluation report as mentioned above).

The Garmin GNS 430 system has been approved for IFR use, terminal, enroute and non-precision approach

Logbook revised.

*****END*****

6. Conformity Statement

Manufacturer		C. Agency's Name and Address
X Certified Repair Station	Flight Tech Helicopters, Inc.	1000 E. FALCON DR.
Foreign Certified Mechanic		MEGA AL 88212
Foreign Certified Mechanic		
U.S. Certified Mechanic		
U.S. Certified Mechanic		
ILC/RSR		
RADIO CLASS I, II, III		
INSTRUMENT I, II, III, IV		
LIMIT AIRFRAME & POWERPLANT		
C. Certificate No.		

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

Signature of Authorized Individual

Also See

7. Approval for Return to Service

In order for the authority given herein to be valid, the unit identified in item 4 was inspected in the manner specified by the Administrator of the Federal Aviation Administration and is Approved/Rejected

FAA District	X	Repair Station	Manufacturer	FAA Form Standard Inspection
Canada Airworthiness Group		Person App. by Transport	Manufacturer	FAA Form Standard Inspection
Other Agency		Inspection Authorization	Manufacturer	FAA Form Standard Inspection



U S Department of
Transportation
Federal Aviation
Administration

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

Form Approved
OMB No. 2120-0020

For FAA Use Only

Office Identification

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

1. Aircraft	Make CESSNA	Model 177RG	Serial No. 177RG1306	Nationality and Registration Mark N52908
2. Owner	Name (As shown on registration certificate) ZIEVE, JOEL TRUSTEE		Address (As shown on registration certificate) 348 HORSESHOE CT PLAINWELL, MI. 49080-9148	

3. For FAA Use Only

4. Unit Identification

5. Type

Unit	Make	Model	Serial No.	Repair	Alteration
AIRFRAME	~~~~~(As described in item 1 above)~~~~~			<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
POWERPLANT	LYCOMING	IO-360-A1B6	L-28082-51A	<input type="checkbox"/>	<input checked="" type="checkbox"/>
PROPELLER				<input type="checkbox"/>	<input type="checkbox"/>
APPLIANCE	Type			<input type="checkbox"/>	<input type="checkbox"/>
	Manufacturer			<input type="checkbox"/>	<input type="checkbox"/>

6. Conformity Statement

A. Agency's Name and Address KALAMAZOO AIRCRAFT, INC 2729 E. MILHAM RD PORTAGE, MI. 49002	B. Kind of Agency <input type="checkbox"/> U.S. Certified Mechanic <input type="checkbox"/> Foreign Certified Mechanic <input checked="" type="checkbox"/> Certified Repair Station <input type="checkbox"/> Manufacturer	C. Certificate No. K9AR289N
--	---	--------------------------------

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

Date JUNE 23, 2005	Signature of Authorized Individual RALPH MICHALKA <i>Ralph Michalka</i>
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7. Approval for Return to Service

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

BY	<input type="checkbox"/> FAA Fit Standards Inspector	<input type="checkbox"/> Manufacturer	<input type="checkbox"/> Inspection Authorization	Other (Specify)
	<input type="checkbox"/> FAA Designee	<input checked="" type="checkbox"/> Repair Station	<input type="checkbox"/> Person Approved by Transport Canada Airworthiness Group	

Date of Approval or Rejection JUNE 23, 2005	Certificate or Designation No. K9AR289N	Signature of Authorized Individual RALPH MICHALKA <i>Ralph Michalka</i>
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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.)

REPLACED SKIN LOWER FUSELAGE SKINS AFT OF NOSE GEAR AND BETWEEN MAIN GEAR USING EXISTING RIVET PATTERN AND ALL NEW HARDWARE. NEW PARTS INSTALLED:

1 EA. P/N 2012068-1 SKIN

1 EA. P/N 2011000-2 SKIN

2 EA. CI 105 ANTENNAS

1 EA. CI 102 ANTENNA

1 EA. S3469-1 BEARING

PRACTICES USED FOR WORK PERFORMED, AC 43.13 CHAPTER 4, SECTION 4.

INSTALLED PRECISE FLIGHT INC. PULSELITE CONTROL SYSTEM. INSTALLATION WAS DONE IN ACCORDANCE WITH PULSELITE INSTALLATION MANUAL MODEL 1210/2405-2A, REV. 9 11/22/99 AND STC SA4005NM.

INSTALLED JP INSTRUMENT EDM-711 PRIMARY TEMPERATURE INDICATING SYSTEM, WITH FUEL FLOW OPTION. INSTALLATION WAS DONE IN ACCORDANCE WITH REPORT NO. 106P, REV. C 8/2/01 AND STC SA 00954SE.

REMOVED FOUR TEXTRON LYCOMING FUEL NOZZLES P/N LW 18265 AND INSTALLED GENERAL AVIATION MODIFICATIONS, INC. GAMIJECTOR KIT NO. GL10, S/N 14057 STC NO. SE09445SC PER GAMIJECTOR INSTALLATION PROCEDURE. NO. IP-98-001 (REV. B) DATED MARCH 13, 1998.

EQUIPMENT LIST AND WEIGHT AND BALANCE UPDATED.

END

Additional Sheets Are Attached

Supplemental Type Certificate

Number SA00954SE

This certificate, issued to **J. P. Instruments**
P.O. Box 7033
Huntington Beach, CA 92646

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:

Make:

Model:

*See attached FAA Approved Model List (AML) No. SA00954SE for a list of approved airplane models and applicable airworthiness regulations.

Description of the Type Design Change: Installation of J.P. Instruments (JPI) Primary Temperature Indicating System in accordance with JPI Installation Manual for the EDM 711, Report 106P, Revision B, dated August 2, 2001, 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 Approved Model List (AML) No. SA00954SE, and Airplane Flight Manual Supplement EDM -711, dated August 10, 2001, or later FAA approved revision, 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: December 17, 1999

Date of issuance: August 10, 2001

Date reissued:

Date amended:



By direction of the Administrator

Andrew Hanson
(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.

Department of Transportation—Federal Aviation Administration

Supplemental Type Certificate

Number SA4005NM

This certificate, issued to **Precise Flight, Inc.**
63354 Powell Butte Road
Bend, OR 97701

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. SA4005NM for list of approved airplane models
 Model: and applicable airworthiness regulations

Description of the Type Design Change: Precise Flight Inc. Pulselite Control System manufactured in accordance with Precise Flight Engineering Drawing Lists 002P0000, Revision H, dated July 11, 2001; 010P0000, Revision F, dated March 13, 2002; 015P0000, Revision J, dated April 19, 2002, 020P0000; Revision M, dated September 6, 2002; 025P0000, Revision E, dated July 10, 2001, or later FAA approved revisions. Installed in accordance with the appropriate Precise Flight drawing, listed on Precise Flight Engineering Drawing List 001P0020, Revision A, dated July 10, 2002, and/or the Installation Manual listed on FAA AML No. SA4005NM, dated November 27, 2002, or later FAA approved revisions. Maintained in accordance with the appropriate Precise Flight Instructions for Continued Airworthiness found on Engineering Drawing List 001P0020, Revision A, dated July 10, 2002, or found in the appropriate Installation Manual listed on FAA AML SA4005NM, dated November 27, 2002, or later FAA approved revision.

NOTE: Approval for the physical installation of the Pulselite Control Unit will be required if there is no specific reference provided in Engineering Drawing List 001P0020, Revision A, dated July 10, 2002, or later FAA approved revision.

Limitations and Conditions: Approval of this change in type design applies to the model aircraft on the FAA approved AML SA4005NM 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 by the installer 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 approved AML No. SA4005NM, dated November 27, 2002, or later FAA approved revision, and the Airplane Flight Manual Supplement called out in FAA approved AML SA4005NM, or later FAA approved revision, 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: July 21, 1984
 Date of issuance: August 19, 1988

Date reissued:
 Date amended: 3/31/88; 5/4/89; 6/24/93; 6/22/00;
 6/4/01; 11/27/02; 11/7/03



By direction of the Administrator

[Handwritten Signature]

(Signature)

Acting Manager, Seattle Aircraft Certification Office
 (Title)

FAA APPROVED MODEL LIST (AML) NO. SA4005NM
 PRECISE FLIGHT PULSELite

PAGE 1 OF 27

ORIGINAL ISSUE DATE: August 19, 1987

LIST OF ACTIVE PAGES

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25	July 24, 2003
26	July 24, 2003
27	July 24, 2003

FAA Approved:

Acting Manager, Seattle Aircraft
 Certification Office

AMENDED:

9/10/87; 3/31/88; 5/4/88; 7/10/89; 2/19/90; 5/18/92;
 9/30/92; 10/16/92; 6/24/93; 4/7/99; 6/22/00; 6/4/01;
 11/26/02; 7/10/02; 11/27/02; 7/24/03
 000PENG0001Q

PFI Document Number:



U.S. Department
of Transportation
Federal Aviation
Administration

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

Form Approved
OMB No. 2120-0020

For FAA Use Only
Office Identification

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

1. Aircraft	Make	Model
	Serial No.	Nationality and Registration Mark
2. Owner	Name (As shown on registration certificate)	Address (As shown on registration certificate)

3. For FAA Use Only

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

6. Conformity Statement

A. Agency's Name and Address	B. Kind of Agency	C. Certificate No.
	<input type="checkbox"/> U.S. Certificated Mechanic <input type="checkbox"/> Foreign Certificated Mechanic <input type="checkbox"/> Certificated Repair Station <input type="checkbox"/> Manufacturer	

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

Date	Signature of Authorized Individual
------	------------------------------------

7. Approval for Return To Service

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

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

NOTICE

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

8. Description of Work Accomplished

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

Removed 4 Textron Lycoming fuel nozzles P/N LW 18265 and installed General Aviation Modifications, Inc. *GAMIjector*® Kit No. GL10 S/N 14057 STC No. SE09445SC per *GAMIjector*® Installation Procedure, No. IP-98-001 (Rev. B) dated March 13, 1998. No change in weight and balance.

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

Additional Sheets Are Attached

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

Number SE09445SC

This Certificate issued to General Aviation Modifications, Inc.
2800 Airport Road, Hangar A
Ada Municipal Airport
Ada, OK 74820

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

Original Product Type Certificate Number: * [See Attached FAA Approved Model List (AML) for a
Make: for a list of approved models and applicable
Model: airworthiness regulations]

Description of Type Design Change: Installation of fuel injector nozzles in accordance with General Aviation Modifications, Inc. "Drawing/Data Control List", Revision F, dated June 29, 1998, and "GAMIjector Installation Procedure for Lycoming Engines", IP-98-001, Revision B, dated March 13, 1998, or "turboGAMIjector Installation Procedure for Turbocharged Lycoming Engines", IP-98-002, Revision D, dated August 11, 1998, or later FAA approved revisions.

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 STC only applies to Textron Lycoming engine models listed on the FAA approved model list on the attached continued approved model list.

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: August 10, 1997

Date reissued:

Date of issuance: March 26, 1998

Date amended: August 23, 2001, Rev. 3



By direction of the Administrator

(Signature)
S. Frances Cox
Manager, Special Certification Office
Southwest Region

(Title)

Supplemental Type Certificate

(Continuation Sheet)

5	Textron Lycoming	IO-540-A1A5, AA1A5, AA1B5, AB1A5, AC1A5, B1A5, B1B5, B1C5, C1B5, C1C5, C2C, C4B5D, C4C5, C4D5, C4B5, C4D5D, D4A5, D4B5, D4C5, E1B5, E1A5, E1C5, G1A5, G1B5, G1C5, G1D5, G1E5, G1F5, J4A5, K1G5D, K1A5D, K1G5, K1A5, K1J5, K1F5, K1B5, K1B5D, K1C5, K1D5, K1E5, K1E5D, K1F5D, K1H5, K1J5D, K1K5, K2A5, L1A5, L1A5D, L1B5D, L1C5, M1A5, M1A5D, M1B5D, M2A5D, N1A5, M1C5, P1A5, R1A5, S1A5, T4A5D, T4B5, T4B5D, T4C5D, U1A5D, U1B5D, V4A5D, W1A5D, W3A5D AEIO-540-D4A5, D4B5, D4C5, L1B5, L1B5D HIO-540-A1A	1E4	CAR 13
6	Textron Lycoming	IVO-540-A1A	E11EA	CAR 13
7	Textron Lycoming	TIO-540-A1A, A1B, A2A, A2B, A1C, A2C, AA1AD, AB1AD, AE2A, AF1A, AF1B, AG1A, AH1A, AJ1A, AK1A, C1A, E1A, F2BD, G1A, H1A, J2B, J2BD, K1AD, N2BD, R2AD, S1AD, T2AD, U2A, V2AD, W2A LTIO-540-F2BD, J2B, J2BD, K1AD, N2BD, R2AD, U2A, V2AD, W2A	E14EA	CAR 13
8	Textron Lycoming	TIVO-540-A2A	1E14	CAR 13
9	Textron Lycoming	IO720-A1A, A1B, A1BD, B1A, B1B, B1BD, C1B, D1B, D1C, C1BD, D1BD, D1CD	1E15	CAR 13

FAA Approved:

S. Frances Cox
 S. Frances Cox
 Manager, Special
 Certification Office

Date:

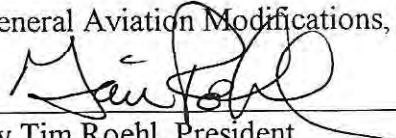
Aug 23, 2001



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 52908, to alter that certain Textron Lycoming Engine:

Model IO-360 A1B6, SN L-28082-51A and NA, and ONLY that serial number (or numbers), by application of STC No. SE09445SC, to that specific engine(s), for the purpose of installing the fuel injector nozzles which are the subject of that STC.

General Aviation Modifications, Inc.


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

[SEAL]

Date

5-20-05



US Department of Transportation
Federal Aviation Administration

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

Form Approved
OMB No. 2120-0020

For FAA Use Only

Office Identification

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

1. Aircraft	Make CESSNA	Model 177RG
	Serial No. 177RG1306	Nationality and Registration Mark N52908
2. Owner	Name (As shown on registration certificate) ZIEVE JOEL TRUSTEE AIEVE ANN ELIAZBETH	Address (As shown on registration certificate) 348 HORSESHOE CT PLAINWELL MI 49080-9148

3. For FAA Use Only

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

6. Conformity Statement

A. Agency's Name and Address	B. Kind of Agency	C. Certificate No.
STEVEN W. SEELEY DBA SEELEY AIRCRAFT SERVICE LLC 7264 HOSPITAL RD. FREELAND MICHIGAN 48623	<input checked="" type="checkbox"/> U.S. Certificated Mechanic	2236012
	<input type="checkbox"/> Foreign Certificated Mechanic	
	<input type="checkbox"/> Certificated Repair Station	
	<input type="checkbox"/> Manufacturer	

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

Date AUGUST 3, 2005	Signature of Authorized Individual STEVEN W. SEELEY <i>Steven W Seeley</i>
-------------------------------	--

7. Approval for Return To Service

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

BY	FAA Flt. Standards Inspector	Manufacturer	<input checked="" type="checkbox"/>	Inspection Authorization	Other (Specify)
	FAA Designee	Repair Station		Person Approved by Transport Canada Airworthiness Group	
Date of Approval or Rejection AUGUST 3, 2005		Certificate or Designation No. 2236012	Signature of Authorized Individual STEVEN W. SEELEY <i>Steven W Seeley</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.)

BALANCED PROP USING ACES SYSTEM BALANCER PER PUBLICATION #1000-OM-01

FAA Approval



New England Region

12 New England Executive Park
Burlington, Massachusetts 01803

Telephone No. (617) 238-7112
Facsimile No. (617) 238-7198

OCT 08 1986

TEC Aviation Division
Attn: Jerry Justice, Product Manager
10737 Lexington Drive
Knoxville, TN 37933-0996

Dear Mr. Justice:

You are authorized to indicate that your Publication Number 1000-OM-01, Revision 2.0, dated, June 1986, entitled, "ACES Systems Guide to Propeller Balancing", is Federal Aviation Administration, Engine and Propeller Directorate, New England Region approved.

Sincerely,

Martin Buckman
Engine and Propeller Standards Staff

-----END-----

| Additional Sheets Are Attached



U.S. Department
Transportation
Federal Aviation
Administration

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

Form Approval
ONB No. 2120-0020

For FAA Use Only

Office Identification

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

1. Aircraft	Make Cessna	Model 177RG
	Serial No. 177RG1306	Nationality and Registration Mark USA N52908
2. Owner	Name (As shown on registration certificate) Zieve, Joel Trustee	Address (As shown on registration certificate) 348 Horseshoe Ct. Plainwell, MI 49080-9148

3. For FAA Use Only

4. Unit Identification

5. Type

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

6. Conformity Statement

A. Agency's Name and Address Mayday Avionics, Inc. 5500 44 th Street SE Grand Rapids, MI 49512	B. Kind of Agency		C. Certificate No. YXXR387Y Radio 1,2,3 Instrument 3 Ltd. Airframe
	<input type="checkbox"/>	U.S. Certificated Mechanic	
	<input type="checkbox"/>	Foreign Certificated Mechanic	
	<input checked="" type="checkbox"/>	Certificated Repair Station	
	<input type="checkbox"/>	Manufacturer	

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

Date MAY 01 2006	Signature of Authorized Individual <i>Garry Molegraaf</i>
---------------------	--

7. Approval for Return To Service

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

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

Date of Approval or Rejection MAY 01 2006	Certificate or Designation No. YXXR387Y	Signature of Authorized Individual <i>Garry Molegraaf</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 aircraft nationality and registration mark and date work completed.)


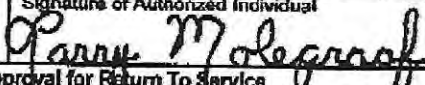
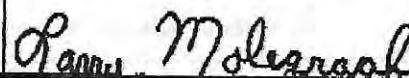
Cessna, 177RG, S/N: 177RG1306, USA N52908

Enabled the TERRAIN function of the Garmin GNS 430 in accordance with Garmin Service Bulletin No.: 0532, Rev. B, dated 4-11-06. Inserted the FAA Approved TERRAIN Addendum, Garmin P/N 190-00140-14, dated 4-10-06 (containing limitations for operational use of the TERRAIN functionality) in the previously FAA approved GNS 430 AFMS, FAA Approved date 10-24-01. Reference the Garmin 400 Series Installation Manual, P/N 190-00140-02, Appendix A for Instructions for Continued Airworthiness.

The GNS 430 was ground checked in accordance with its installation manual for proper operation and to ensure no adverse reactions occurred to other onboard systems or equipment.

All work performed in accordance with AC 43-13-1B and AC 43-13-2A. Pertinent details of this installation are on file at this repair station under Work Order 44374. No weight/balance or equipment list changes were necessary; a logbook entry has been completed.

END

 US Department of Transportation Federal Aviation Administration		MAJOR REPAIR AND ALTERATION (Airframe, Powerplant, Propeller, or Appliance)		Form Approval ONB No. 2120-0020	
		For FAA Use Only			
		Office Identification			
INSTRUCTIONS: Print or type all entries. See FAR 43.9, FAR 43 Appendix B, and AC 43.9-1 (or subsequent revision thereof) for instructions and disposition of this form. This report is required by law (49 U.S.C. 1421). Failure to report can result in a civil penalty not to exceed \$1,000 for each such violation (Section 901 Federal Aviation Act of 1956).					
1. Aircraft	Make	Cessna	Model	177RG	
	Serial No.	177RG1306	Nationality and Registration Mark	USA N52908	
2. Owner	Name (As shown on registration certificate)		Address (As shown on registration certificate)		
	Zieve, Joel, Trustee		348 Horseshoe Ct Plainwell, MI 49080-9148		
3. For FAA Use Only					
4. Unit Identification					
				5. Type	
Unit	Make	Model	Serial No.	Repair	Alteration
AIRFRAME	(As described in item 1 above)				x
POWERPLANT					
PROPELLER					
APPLIANCE	Type				
	Manufacturer				
6. Conformity Statement					
A. Agency's Name and Address			B. Kind of Agency		C. Certificate No.
Mayday Avionics, Inc. 5500 44 th Street SE Grand Rapids, MI 49512					YXXR387Y
			U.S. Certificated Mechanic		Radio 1,2,3
			Foreign Certificated Mechanic		Instrument 3
			X Certified Repair Station		Ltd. Airframe
			Manufacturer		
D. I certify that the repair and/or alteration made to the unit(s) identified in item 4 above and described on the reverse or attachments here to have been made in accordance with the requirements of Part 43 of the U.S. Federal Aviation regulations and that the information furnished herein is true and correct to the best of my knowledge.					
Date		Signature of Authorized Individual			
03-23-07					
7. Approval for Return To Service					
Pursuant to the authority given persons specified below, the unit identified in item 4 was inspected in the manner prescribed by the Administrator of the Federal Aviation Administration and is <input checked="" type="checkbox"/> APPROVED <input type="checkbox"/> REJECTED					
BY	FAA Fit. Standards Inspector	Manufacturer	Inspection Authorization		Other (Specify)
	FAA Designee	x Repair Station	Person Approved by Transport Canada Airworthiness Group		
Date of Approval or Rejection		Certificate or Designation No.	Signature of Authorized Individual		
03-23-07		YXXR387Y			

NOTICE

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

8. Description of Work Accomplished

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

Cessna, 177RG, S/N: 177RG1306, USA N52908

Removed the existing Garmin GNS 430 GPS NAV/COM and GA 56 GPS Antenna.

Installed the upgraded Garmin GNS 430W GPS/WAAS Navigation System in accordance with Garmin AT, Inc. STC Number SA01933EA; Garmin 400W/500W Series Upgrade Installation Manual, P/N 190-00357-06; AC 20-138A; AC 43.13-1B, Chapter 11, and AC 43.13-2A, Chapter 2.

The GNS 430W uses the existing provisions and interfaces left behind from the original GNS 430 installation. The GNS 430W receives a signal from the newly installed GA 35 GPS-WAAS Antenna. The GA 35 is located on top of the fuselage at Sta. 133. Instructions for Continued Airworthiness for the GNS 430W are contained within the Garmin document number 190-00356-65, Rev. A, dated 11-3-06 (or later) as attached.

The Garmin GNS 430W GPS/WAAS Navigation System as installed in accordance with STC SA01933LA is approved for enroute, terminal area, non-precision approach operations (including "GPS", "or GPS", and "RNAV" approaches) and approach procedures with vertical guidance (including "LNAV/VNAV" and "LPV"). The Garmin, FAA Approved Airplane Flight Manual Supplement for the GNS 430W, Document No. 190-00356-63, Rev. B, dated 12-21-06 (or later) is required and was placed in the Airplane Flight Manual.

All items were ground checked in accordance with their respective installation manuals for proper operation and to ensure no adverse reactions occurred to other onboard systems or equipment.

All work performed in accordance with AC 20-138A, AC 43-13-1B, and AC 43-13-2A. Pertinent details of this installation are on file at this repair station under Work Order 43351. The Weight and Balance change is negligible, the Equipment List has been revised, and a logbook entry completed.

END

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

Number SA01933LA

This Certificate issued to **Garmin AT, Inc.**
 2345 Turner Road S.E.
 Salem, Oregon 97302

*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 Approved Model List (AML)
Make: No. SA01933LA for list of approved aircraft
Model: models and applicable airworthiness regulations.

Description of Type Design

Change: Installation of Garmin Model 400W / 500W Series GPS-WAAS Navigation System in accordance with FAA Approved Garmin 400W Series Master Data List, Drawing No.: 005-C0221-00, Revision "A", dated October 31, 2006, or later FAA approved revision; or FAA Approved Garmin 500W Series Master Data List, Drawing No.: 005-C0221-01, Revision "A", dated October 31, 2006, or later FAA approved revision. For Garmin 400W installations: FAA Approved Garmin 400W Series Airplane Flight Manual Supplement, Document No.: 190-00356-63, Revision "Original", dated November 6, 2006, or later FAA approved revision. For Garmin 500W installation: FAA Approved Garmin 500W Series Airplane Flight Manual Supplement, Document No.: 190-00357-63, Revision "Original", dated November 6, 2006, or later FAA approved revision.

Limitations and Conditions: This approval should not be incorporated in any aircraft unless it is determined that the interrelationship between this installation and any previous approved configuration will not introduce any adverse effect upon the airworthiness of the 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

Date of application: January 31, 2006

Date reissued:

Date of issuance: November 6, 2006

Date amended:



By direction of the Administrator

[Signature]
 (Signature)

Manager, Systems & Equipment Branch, Los Angeles Aircraft Certification Office

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

Aircraft Make and Model Designation	Type Certificate Number	Certification Basis	Required Approved Data & Added Model Specific Limitations	AML Revision Date
Bellanca (Alexandria Aircraft LLC)				
14-13, 14-13-2, 14-13-3, 14-13-3W	A-773	CAR 4a	005-C0221-00 005-C0221-01	
14-19, 14-19-2, 14-19-3, 14-19-3A, 17-30, 17-31, 17-31TC	1A3	CAR 3	005-C0221-00 005-C0221-01	
17-30A, 17-31A, 17-31ATC	A18CE	FAR 23	005-C0221-00 005-C0221-01	
Britten-Norman (B-N Group 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	A17EU	FAR 23	005-C0221-00 005-C0221-01	
BN2A MK III, BN2A MK III-2, BN2A MK III-3	A29EU	FAR 23	005-C0221-00 005-C0221-01	
Bushmaster				
Bushmaster 2000	A19WE	CAR 3	005-C0221-00 005-C0221-01	
Cessna				
120, 140	A-768	CAR 3	005-C0221-00 005-C0221-01	
140A	5A2	CAR 3	005-C0221-00 005-C0221-01	
150, 150A, 150B, 150C 150D, 150E, 150F, 150G, 150H, 150J, 150K, 150L, 150M, A150K, A150L, A150M, 152, A152	3A19	CAR 3 FAR 23	005-C0221-00 005-C0221-01	
170, 170A, 170B	A-799	CAR 3	005-C0221-00 005-C0221-01	
172, 172A, 172B, 172C, 172D, 172E, 172F, 172G, 172H, 172J, 172K, 172L, 172M, 172N, 172P, 172Q, 172R, 172S	3A12	CAR 3, FAR 23	005-C0221-00 005-C0221-01	
172RG, P172D, R172E, R172F, R172G, R172H, R172J, R172K, 175, 175A, 175B, 175C	3A17	CAR 3	005-C0221-00 005-C0221-01	
177, 177A, 177B	A13CE	FAR 23	005-C0221-00 005-C0221-01	
177RG	A20GE	FAR 23	005-C0221-00 005-C0221-01	
180, 180A, 180B, 180C, 180D, 180E, 180F, 180G, 180H, 180J, 180K	5A6	CAR 3	005-C0221-00 005-C0221-01	
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-C0221-00 005-C0221-01	
185, 185A, 185B, 185C, 185D, 185E, A185E, A185F	3A24	CAR 3	005-C0221-00 005-C0221-01	
190, 195, 195A, 195B	A-790	CAR 3	005-C0221-00 005-C0221-01	
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, 210-5A	3A21	CAR 3	005-C0221-00 005-C0221-01	



U.S. Department of
Transportation
Federal Aviation
Administration

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

Form Approved
OMB No. 2120-0020

For FAA Use Only

Office Identification

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

1. Aircraft	Make CESSNA	Model 177RG
	Serial No. 177RG13006	Nationality and Registration Mark N52908
2. Owner	Name (As shown on registration certificate) ZIEVE JOEL TRUSTEE	Address (As shown on registration certificate) 348 HORSESHOE CT PLAINWELL, MI 49080-9148

3. For FAA Use Only

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

6. Conformity Statement

A. Agency's Name and Address Centennial Aircraft Services 2850 Territorial Rd. West Battle Creek, MI 49015	B. Kind of Agency <input type="checkbox"/> U.S. Certified Mechanic <input type="checkbox"/> Foreign Certified Mechanic <input checked="" type="checkbox"/> Certified Repair Station <input type="checkbox"/> Manufacturer	C. Certificate No. <div style="text-align: center; font-size: 1.2em;">W2OR467Y</div>
--	--	--

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

Date <div style="font-size: 1.5em; font-family: cursive;">8-20-08</div>	Signature of Authorized Individual <div style="font-size: 1.5em; font-family: cursive;">Joe Newman</div>
--	---

7. Approval for Return to Service

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

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

Date of Approval or Rejection <div style="font-size: 1.5em; font-family: cursive;">8-20-08</div>	Certificate or Designation No. W2OR467Y	Signature of Authorized Individual <div style="font-size: 1.5em; font-family: cursive;">Joe Newman</div>
---	--	---

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.)

Replaced metal propeller spinner with TCB Composite Company propeller spinner TCB0752637-16 in accordance with STC-SA01164AT. Spinner was prepped and painted with PPG Delta System paint DGHS504044H. Revised weight and balance report. Operational ground test found to be satisfactory.

-----END-----

Additional Sheets Are Attached

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

Number SA01164AT

This certificate issued to TCB Composite Co.
3811 South Airport Road
Ogden, UT 84405

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

Original Product--Type Certificate Number: A20CE
Make: Cessna
Model: 177 RG

Description of Type Design Change: Installation of Composite Spinner in accordance with TCB Composite Company "Installation Procedures and Parts List for Cessna 177RG, Composite Spinner", Revision N.C., dated July 12, 1996; or later FAA approved revision.

Limitations and Conditions: This approval should not be extended to other airplanes of this model on which other previously approved modifications are incorporated unless it is determined by the installer that the interrelationship between this change and any of those other previously approved modifications will introduce no adverse effect upon the airworthiness of that aircraft. Composite Spinner, Part Number TCB0752637-16, is a replacement for Cessna Part Number 0752637-16.

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: August 14, 1996

Date reissued:

Date of issuance: October 02, 1996

Date amended: April 22, 1997; September 14, 1998;
October 13, 2000



By direction of the Administrator

(Signature)
Paul C. Sconyers
Associate Manager
Atlanta Aircraft Certification Office



**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. <i>Aircraft</i>	Nationality and Registration Mark USA N52908	Serial No. 177RG1306
	Make CESSNA	Model 177RG
2. Owner	Name (As shown on registration certificate) ZIEVE, JOEL TRUSTEE	Address (As shown on registration certificate) Address 348 HORSESHOE CT City PLAINWELL State MI Zip 49080 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	_____	(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	Mayday Avionics, Inc.	<input type="checkbox"/> U. S. Certificated Mechanic	<input type="checkbox"/> Manufacturer
Address	5500 44th St. SE	<input type="checkbox"/> Foreign Certificated Mechanic	C. Certificate No.
City	Grand Rapids State MI	<input checked="" type="checkbox"/> Certificated Repair Station	YXXR387Y
Zip	49512 Country USA	<input type="checkbox"/> Certificated Maintenance Organization	

D. I certify that the repair and/or alteration made to the unit(s) identified in item 5 above and described on the reverse or attachments hereto have been made in accordance with the requirements of Part 43 of the U.S. Federal Aviation Regulations and that the information furnished herein is true and correct to the best of my knowledge.

Extended range fuel per 14 CFR Part 43 App. B	<input type="checkbox"/>	Signature/Date of Authorized Individual	<i>Edward Easil</i> 8-27-09
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7. Approval for Return to Service

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

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

Certificate or Designation No. YXXR387Y	Signature/Date of Authorized Individual	<i>Edward Easil</i> 8-27-09
--	---	-----------------------------

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 N52908	8-27-09
Nationality and Registration Mark	Date

Installed Main Software Version 3.30 and GPS Software Version 3.2 to the Garmin GNS 430W in accordance with the Garmin Service Bulletin No.: 0918, Rev A.

Removed the existing Garmin FAA Approved Airplane Flight Manual Supplement for the GNS 430W and replaced with Part Number: 190-00356-03, Rev B, dated 7-31-09.

All items were ground checked in accordance with their respective installation manuals for proper operation and to ensure no adverse reactions occurred to other onboard systems or equipment.

All work performed in accordance with AC 20-138A, AC 43-13-1B, and AC 43-13-2A. Pertinent details of this installation are on file at this repair station under Work Order 49384. There is no change to the Weight & Balance or the Equipment List. A logbook entry has been completed.

<<<<<<<<<< END >>>>>>>>>>>>

Additional Sheets Are Attached

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

Number SA01118WI

This certificate issued to:

Concorde Battery Corporation
3830 West Bounous
Wichita, KS 67213

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 3123 of the Civil Air / Federal Aviation Regulations.

Original Product - Type Certificate Number:

*See attached FAA Approved Model List (AML)

Make:

No. SA01118WI for list of approved models and applicable

Model:

airworthiness regulations

Description of Type Design Change:

Installation of the Concorde FLA or VRSLA RG series batteries in the Cessna Single Engine Airplanes listed on the attached FAA Approved Model List (AML) No. SA01118WI, dated October 17, 2001, in accordance Concorde Battery Corporation, Master Drawing List Dwg. No. 5-0148, Revision A, dated August 16, 2002, 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, revoked or a termination date is otherwise established by the Administrator of the Federal Aviation Administration.

Date of application: August 2, 2002

Date reissued: July 30, 2012

Date of issuance: October 17, 2002

Date amended:



By direction of the Administrator

Handwritten signature of Raymond N. Johnston in black ink.

(Signature)

Raymond N. Johnston
Program Manager
Wichita Aircraft Certification Office

(Title)



Concorde Battery Corporation
2009 San Bernardino Road
West Covina, CA 91790 USA
Phone 626-813-1234 | FAX 626-813-1235
www.concordebattery.com

License for use of Supplemental Type Certificate

To Whom It May Concern:

Pursuant to Title 49 of United States Code § 44704 (b)(3) (Effective October 19, 1996),
CONCORDE BATTERY CORPORATION hereby licenses the holder to use the following listed STC
in the noted aircraft

STC No.	SA01118WI
Aircraft Manufacturer and Model No.:	CESSNA 177RG
Aircraft Serial Number:	177RG1306
Aircraft Registration Number:	N52908
Aircraft Registered Owner:	FUN AIR LLC
	4504 CHESAPEAKE PL
	AMARILLO, TX 79119

For

CONCORDE BATTERY CORPORATION
(Digitally Signed)

Shelley
Johnson

Digitally signed by Shelley Johnson
DN: cn=Shelley Johnson, o=Concorde
Battery Corporation, ou,
email=sjohnson@concordebattery.co
m, c=US
Date: 2015.11.12 10:14:34 -08'00'

AP



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 N52908	Serial No. 177RG1306	
	Make CESSNA	Model 177	Series RG
2. Owner	Name (As shown on registration certificate) FUN-AIR LLC.	Address (As shown on registration certificate) Address 4504 CHESAPEAKE PL.	
		City AMARILLO State TEXAS	Zip 79119 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	<u>CESSNA</u>	(As described in Item 1 above)	<u>177RG1306</u>
<input type="checkbox"/>	<input type="checkbox"/>	POWERPLANT			
<input type="checkbox"/>	<input type="checkbox"/>	PROPELLER			
<input type="checkbox"/>	<input type="checkbox"/>	APPLIANCE	Type		
			Manufacturer		

6. Conformity Statement

A. Agency's Name and Address		B. Kind of Agency	
Name TERRY L. SMITH	<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	C. Certificate No. 3483764	
Address 1801 SOUTH FORK AVE			
City AMARILLO State TEXAS			
Zip 79118 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 <input type="checkbox"/>	Signature/Date of Authorized Individual 07/05/2016
--	---

7. Approval for Return to Service

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

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

Certificate or Designation No. 3483764	Signature/Date of Authorized Individual 07/05/2016
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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.)

N52908

07/05/2016

Nationality and Registration Mark

Date

Removed existing Bracket filter P/N 5710 & element P/N 5705.

Installed Challenger Aviation Products Inc. STC SA01669CH.

Challenger Aviation Products Inc. installation instruction #0402 dated May 5, 2010, Revision O and Cessna service manual.

Placed Challenger Air Filter Instruction for Continued Airworthiness Document No. 4003, Issue date: May 5, 2010 Revision E into the aircraft service manual.

No change to weight and balance.

END



CP-1177
FAA/PMA

For installation on the following aircraft models:
CONSULT INCLUDED AML FOR ELIGIBILITY

FOR PRODUCT SUPPORT EMAIL
PREMIFILTER@AOL.COM OR CALL
937-387-6500

4433 Old Springfield Road; Vandalia, OH 45377
P/N LB1177 003904

Additional Sheets Are Attached

06/20/2016
ISSUED TO: FUN-AIR LLC
A/C MODEL: Cessna 177RG
S/N: 177RG1306
N52908

United States of America
Department of Transportation -- Federal Aviation Administration

Supplemental Type Certificate

Number SA01669CH

This certificate issued to: Challenger Aviation Products, Inc.
4433 Old Springfield Road
Vandalia, OH 45377

*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)
Make: *No. SA01669CH for list of approved airplane models and
Model: *applicable airworthiness regulations

Description of Type Design Change:
Installation of Challenger re-usable air filter in accordance with Challenger Installation Instructions #0402 revision N, dated July 11, 2008, or later FAA approved revision.

- Limitations and Conditions:*
1. Compatibility of this design change with previous modifications must be determined by the installer.
 2. A copy of this certificate must be maintained as part of the permanent records for the modified aircraft.
 3. Installer must follow Challenger Air Filter Cleaning Instructions (Instructions for Continued Airworthiness) document #4003, revision D, dated August 31, 2005 or later FAA approved revision.
 4. 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 9, 2001

Date reissued: May 18, 2004

Date of issuance: July 3, 2002

Date amended: March 10, 2004, May 3, 2004,
May 27, 2004, December 10, 2004, October 27, 2008,
January 27, 2009, April 21, 2009, July 28, 2010,
November 5, 2010, August 18, 2011

By direction of the Administrator



(Signature)

Timothy Smyth
Manager, Propulsion Branch
Chicago Aircraft Certification Office

Any alteration of this certificate is punishable by a fine of not exceeding \$1,000, or imprisonment not exceeding 1 year, or both.
FAA Form 8110-2 (10-68) PAGE 1 of 2 PAGES This certificate may be transferred in accordance with FAR 21.43.

Authorized CHA Rep:

Linda Procco

INV#: 2109521/Aircraft Spruce

For Questions Regarding this STC Please Contact:
Challenger Aviation Products, Inc.
PO Box 577
Vandalia, OH 45377
7-387-6500

Permission for Use of STC Document

This Supplemental Type of Certificate is the property of Challenger Aviation Products, Inc. Challenger Aviation Products, Inc. authorizes the use of STC data only for the aircraft specified. Unauthorized use of the STC data is a Violation of proprietary laws and is subject to legal action. Please keep the STC and installation instructions in a secure location. There will be a charge for issuing replacement documents.

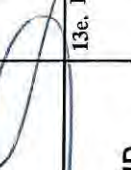
1. Approving Civil Aviation Authority/Country: FAA/UNITED STATES		2. AUTHORIZED RELEASE CERTIFICATE FAA Form 8130-3, AIRWORTHINESS APPROVAL TAG		3. Form Tracking Number: H-Q080331	
4. Organization Name and Address: HARTZELL ENGINE TECHNOLOGIES, 2900 SELMA HWY. MONTGOMERY, AL. 36108 PQ1383CE-D					
6. Item:	7. Description:	8. Part Number:	9. Quantity:	10. Serial Number:	11. Status/Work:
1	REGULATOR **** END ****	R1224B	1	H-Q080331	NEW
12. Remarks: AIRWORTHINESS APPROVAL- PARTS FOR PMA ELIGIBILITY SEE WWW.HARTZELL.AERO/PMA/					

13a. Certifies the items identified above were manufactured in conformity to:

Approved design data and are in a condition for safe operation.

Non-approved design data specified in Block 12.

14a. 14-CFR-43.9 Return to Service. . . . Other regulation specified in Block 12. . . .
 Certifies that, unless otherwise specified in Block 12, the work identified in Block 11 and described in Block 12 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.

13b. Authorized Signature: 	13c. Approval/Authorization No.: 749188261	14b. Authorized Signature:	14c. Approval/Certificate No.:
13d. Name (Typed or Printed): MICHAEL C. STRICKLAND	13e. Date (dd/mm/yyyy): 12/AUG/2016	14d. Name (Typed or Printed):	14e. Date (dd/mm/yyyy):

User/Installer Responsibilities

It is important to understand that the existence of this document alone does not automatically constitute authority to install the aircraft engine/propeller/article.

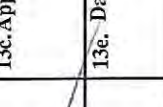
Where the user/installer performs work in accordance with the national regulations of an airworthiness authority different than the airworthiness authority of the country specified in Block 1, it is essential that the user/installer ensures that his/her airworthiness authority accepts aircraft engine(s)/propeller(s)/article(s) from the airworthiness authority of the country specified in Block 1.

Statements in Block 13a and 14a 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 Civil Aviation Authority/Country: FAA/UNITED STATES		2. AUTHORIZED RELEASE CERTIFICATE FAA Form 8130-3, AIRWORTHINESS APPROVAL TAG		3. Form Tracking Number: H-Q091137	
4. Organization Name and Address: HARTZELL ENGINE TECHNOLOGIES, 2900 SELMA HWY. MONTGOMERY, AL. 36108 PQ1383CE-D					
6. Item:	7. Description:	8. Part Number:	9. Quantity:	10. Serial Number:	11. Status/Work:
1	ALTERNATOR-NEW **** END ****	AL24-F60	1	H-Q091137	NEW

12. Remarks:

AIRWORTHINESS APPROVAL- PARTS.FOR PMA ELIGIBILITY SEE WWW.HARTZELL.AERO/PMA/

13a. Certifies the items identified above were manufactured in conformity to:		14a. <input type="checkbox"/> 14 CFR 43.9 Return to Service. . . . <input type="checkbox"/> Other regulation specified in Block 12. . . .	
<input checked="" type="checkbox"/> Approved design data and are in a condition for safe operation. <input type="checkbox"/> Non-approved design data specified in Block 12.		Certifies that unless otherwise specified in Block 12, the work identified in Block 11 and described in Block 12 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.	
13b. Authorized Signature: 		14b. Authorized Signature:	
13c. Approval/Authorization No.: 749188261		14c. Approval/Certificate No.:	
13d. Name (Typed or Printed): MICHAEL C. STRICKLAND		14d. Name (Typed or Printed):	
13e. Date (dd/mm/yyy): 20/SEP/2016		14e. Date (dd/mm/yyyy):	

It is important to understand that the existence of this document alone does not automatically constitute authority to install the aircraft engine/propeller/article.

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 aircraft engine(s)/propeller(s)/article(s) from the airworthiness authority of the country specified in Block 1.

Statements in Block 13a and 14a 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 Civil Aviation Authority/Country:
FAA/UNITED STATES

2. **AUTHORIZED RELEASE CERTIFICATE**
FAA Form 8130-3, AIRWORTHINESS APPROVAL TAG

3. Form Tracking Number:
H-R053090

4. Organization Name and Address:
HARTZELL ENGINE TECHNOLOGIES, 2900 SELMA HWY. MONTGOMERY, AL. 36108 PQ1383CE-D

5. Work Order/Contract/Invoice Number:
M054490

6. Item:	7. Description:	8. Part Number:	9. Quantity:	10. Serial Number:	11. Status/Work:
1	STARTER ***** END *****	149NL	1	H-R053090	NEW

12. Remarks:
 AIRWORTHINESS APPROVAL- PARTS.FOR PMA ELIGIBILITY SEE WWW.HARTZELL.AERO/PMA/

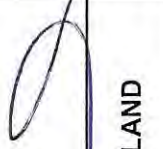
13a. Certifies the items identified above were manufactured in conformity to:

Approved design data and are in a condition for safe operation.

Non-approved design data specified in Block 12.

14a. 14 CFR 43.9 Return to Service. Other regulation specified in Block 12

Certifies that, unless otherwise specified in Block 12, the work identified in Block 11 and described in Block 12 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.

13b. Authorized Signature: 	13c. Approval/Authorization No.: 749188261	14c. Approval/Certificate No.:
13d. Name (Typed or Printed): MICHAEL C. STRICKLAND	13e. Date (dd/mm/yyyy): 30/MAY/2017	14e. Date (dd/mm/yyyy):

User/Installer Responsibilities

It is important to understand that the existence of this document alone does not automatically constitute authority to install the aircraft engine/propeller/article.

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 aircraft engine(s)/propeller(s)/article(s) from the airworthiness authority of the country specified in Block 1.

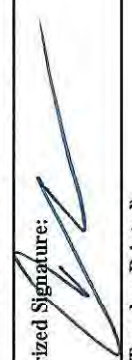
Statements in Block 13a and 14a do not constitute installation certification. In all cases, aircraft maintenance records must contain an installation certification issued in accordance with the national regulations by the user/installer before the aircraft may be flown.

HETCODE: 149NL

1. Approving Civil Aviation Authority/Country: FAA/UNITED STATES		2. AUTHORIZED RELEASE CERTIFICATE FAA Form 8130-3, AIRWORTHINESS APPROVAL TAG		3. Form Tracking Number: H-R030627	
4. Organization Name and Address: HARTZELL ENGINE TECHNOLOGIES, 2900 SELMA HWY. MONTGOMERY, AL. 36108 PQ1383CE-D					
6. Item:	7. Description:	8. Part Number:	9. Quantity:	10. Serial Number:	11. Status/Work:
1	STARTER **** END ****	149NL	1	H-R030627	NEW

12. Remarks:
AIRWORTHINESS APPROVAL- PARTS.FOR PMA ELIGIBILITY SEE WWW.HARTZELL.AERO/PMA/

13a. Certifies the items identified above were manufactured in conformity to:	14a. <input type="checkbox"/> 14 CFR 43.9 Return to Service: . . . <input type="checkbox"/> Other regulation specified in Block 12 . . .
<input checked="" type="checkbox"/> Approved design data and are in a condition for safe operation.	Certifies that unless otherwise specified in Block 12, the work identified in Block 11 and described in Block 12 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.
<input type="checkbox"/> Non-approved design data specified in Block 12.	

13b. Authorized Signature: 	14b. Authorized Signature:	14c. Approval Certificate No.:
13c. Approval/Authorization No.:	14d. Name (Typed or Printed):	14e. Date (dd/mm/yyyy):
004343498	ERIC W. GERMAN	10/MAR/2017

User/Installer Responsibilities

It is important to understand that the existence of this document alone does not automatically constitute authority to install the aircraft engine/propeller/article.

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 aircraft engine(s)/propeller(s)/article(s) from the airworthiness authority of the country specified in Block 1.

Statements in Block 13a and 14a 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.



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 N52908	Serial No. 177RG1306	
	Make CESSNA	Model 177RG	Series
2. Owner	Name (As shown on registration certificate) FUN AIR LLC		Address (As shown on registration certificate) 4504 CHESAPEAKE PL
			City Amarillo State TX
			Zip 79119 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	_____	(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 Abilene Aero, Inc.		U. S. Certificated Mechanic Manufacturer	
Address 2850 Airport Blvd.		Foreign Certificated Mechanic C. Certificate No.	
City Abilene State TX		<input checked="" type="checkbox"/> Certificated Repair Station	GSTR469E
Zip 79602 Country USA		Certificated Maintenance Organization	

D. I certify that the repair and/or alteration made to the unit(s) identified in item 5 above and described on the reverse or attachments hereto have been made in accordance with the requirements of Part 43 of the U.S. Federal Aviation Regulations and that the information furnished herein is true and correct to the best of my knowledge.

Extended range fuel per 14 CFR Part 43 App. B <input type="checkbox"/>	Signature/Date of Authorized Individual October 12, 2017 Stuart Douglas
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7. Approval for Return to Service

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

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

Certificate or Designation No. GSTR469E	Signature/Date of Authorized Individual October 12, 2017 Stuart Douglas
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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.)

USA N52908

10/12/2017

Nationality and Registration Mark

Date

Installed Garmin GTX-345 ADSB Transponder IAW STC# SA01714W1.

The Installed ADS-B out system has shown to meet the equipment performance requirements of 14 CFR section 91.227.

1. Description of Work	2. Date of Work	3. Name of Technician	4. Signature of Technician
Installed Garmin GTX-345 ADSB Transponder IAW STC# SA01714W1.	10/12/2017		

1. Description of Work	2. Date of Work	3. Name of Technician	4. Signature of Technician
<input type="checkbox"/>			
<input type="checkbox"/>			
<input type="checkbox"/>			
<input type="checkbox"/>			
<input type="checkbox"/>			

1. Description of Work	2. Date of Work	3. Name of Technician	4. Signature of Technician
ELI AIR LLC			
СЕРВИС			
РАВ			

Additional Sheets Are Attached

1. Approval Authority/Country: FAA/United States		2. AUTHORIZED RELEASE CERTIFICATE FAA Form 8130-3, AIRWORTHINESS APPROVAL TAG		3. Form Tracking Number: 133841752-2	
4. Organization Name and Address: GARMIN International 1200 E. 151st St. Olathe, KS 66062 Certificate Number PT3742CE		5. Work Order/Contract/Invoice Number: 133841752		11. Status/Work: New	
6. Item: 1	7. Description: GTX345, Standard Kit	8. Part Number: 010-01216-01 Includes 0111-03302-00	9. Quantity: 1	10. Serial Number: 3EG008859	
12. Remarks: Airworthiness Approval TSO C112e					
13a. Certifies the items identified above were manufactured in conformity to:		14a. <input type="checkbox"/> 14 CFR 43.9 Return to Service <input type="checkbox"/> Other regulation specified in Block 12		14c. Approval/Certificate No.:	
<input checked="" type="checkbox"/> Approved design data and are in a condition for safe operation. <input type="checkbox"/> Non-approved design data specified in Block 12.		Certifies that unless otherwise specified in Block 12, the work identified in Block 11 and described in Block 12 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.		14b. Authorized Signature: 14d. Date (dd/mm/yyyy):	
13b. Authorized Signature: <i>Steven Cummins</i>		13c. Approval/Authorization No.: ODA-240087-CE		14c. Approval/Certificate No.:	
13d. Name (Typed or Printed): Steven Cummins		13e. Date (dd/mm/yyyy): 18/Sep/2017		14d. Date (dd/mm/yyyy):	
User/Installer Responsibilities					
It is important to understand that the existence of this document alone does not automatically constitute authority to install the aircraft engine/propeller/article. 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 aircraft engine(s)/propeller(s)/article(s) from the airworthiness authority of the country specified in Block 1. Statements in Blocks 13a and 14a 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.					



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 N52908	Serial No. 177RG1306
	Make CESSNA	Model 177 Series RG
2. Owner	Name (As shown on registration certificate) FUN AIR LLC	
	Address (As shown on registration certificate) Address 4504 CHESAPEAKE PL	
	City AMARILLO	State TX
	Zip 79119-6445	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	_____	(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 JAMES R. FAUSTINA	Address 4216 SW 11TH AVENUE City AMARILLO State TX Zip 79106 Country USA	<input type="checkbox"/> U. S. Certificated Mechanic	C. Certificate No. 2807061
		<input type="checkbox"/> Foreign Certificated Mechanic	
		<input type="checkbox"/> Certificated Repair Station	
		<input type="checkbox"/> Certificated Maintenance Organization	

D. I certify that the repair and/or alteration made to the unit(s) identified in item 5 above and described on the reverse or attachments hereto have been made in accordance with the requirements of Part 43 of the U.S. Federal Aviation Regulations and that the information furnished herein is true and correct to the best of my knowledge.

Extended range fuel per 14 CFR Part 43 App. B	<input type="checkbox"/>	Signature/Date of Authorized Individual 07/14/2018
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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	<input checked="" type="checkbox"/> Inspection Authorization	Other (Specify)

Certificate or Designation No. 2807061	Signature/Date of Authorized Individual 07/14/2018
--	---

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.)

N52908

07/14/2018

Nationality and Registration Mark

Date

INSTALLED MAPLE LEAF AVIATION FIBER GLASS REINFORCED EXHAUST FAIRING STC SA01386NY/

INSTALLED FAIRING P/N EP5001-001, S/N W0618869 I.A.W. INSTALLATION INSTRUCTIONS EP5003, DATE 08/08/2001. AND INSTALLATION DRAWING EP 5003, DATE 02/14/2001

INSTRUCTIONS FOR CONTINUING AIRWORTHINESS (ICA) FORM NUMBER ICAW-2007 ADDED TO AIRFRAME SERVICE MANUAL.

UPDATED WEIGHT AND BALANCE.

-----END-----

Additional Sheets Are Attached

United States of America
Department of Transportation -- Federal Aviation Administration

Supplemental Type Certificate

IMPORT

Number SA01386NY

This certificate issued to Maple Leaf Aviation Limited
Group 520, Box 16, RR5
Brandon, MB R7A 5Y5
Canada

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) No. for list of approved airplane models and applicable airworthiness regulations

Model:

Model:

Description of Type Design Change:

Installation of Fibre Glass Reinforced Plastic Nacelle Fairing, Trade Name: "Exhaust Fairing", in accordance with DOT approved Maple Leaf Installation Drawing Numbers, EP5003 (Cessna 172, 177 and 177RG aircraft) and EP 5004 (Cessna 180, 182 and 185 aircraft), dated August 8, 2001.

Limitations and Conditions:

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

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: February 20, 2001

Date received: October 9, 2002

Date of issuance: September 5, 2001

Date amended:

By direction of the Administrator

James E. Delois
(Signature)

for Vito A. Pullera
Manager
New York 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.

FAA APPROVED MODEL LIST (AML) NUMBER SA01386NY
 MAPLE LEAF AVIATION, LTD
 FOR
 INSTALLATION OF FIBRE GLASS REINFORCED PLASTIC NACELLE FAIRING

Issue Date: September 5, 2001; Revised May 12, 2005

ITEM	AIRCRAFT MAKE	AIRCRAFT MODEL	ORIGINAL TYPE CERTIFICATE NUMBER	CERTIFICATION BASIS FOR ALTERATION	INSTALLATION INSTRUCTIONS		AFM SUPPLEMENT NUMBER/DATE	AML AMENDMENT DATE
					NUMBER	REVISION NO. AND DATE		
1	Cessna	172I to 172N	3A12	FAR 23 and Amendments listed in TCDS 3A12	EP5003	8/8/01	N/A	
2	Cessna	172P to 172Q	3A12	FAR 23 and Amendments listed in TCDS 3A12	EP5003	8/8/01	N/A	
3	Cessna	172R	3A12	FAR 23 and Amendments listed in TCDS 3A12	EP5003	8/8/01	N/A	
4	Cessna	172RG	3A17	CAR 3 and Amendments listed in TCDS 3A17	EP5003	8/8/01	N/A	
5	Cessna	172S	3A12	FAR 23 and Amendments listed in TCDS 3A12	EP5003	8/8/01	N/A	
6	Cessna	177 to 177B	A13CE	FAR 23 and Amendments listed in TCDS A13CE	EP5003	8/8/01	N/A	
7	Cessna	177RG	A20CE	FAR 23 and Amendments listed in TCDS A20CE	EP5003	8/8/01	N/A	
8	Cessna	180C to 180K	5A6	CAR 3 and Amendments listed in TCDS 5A6	EP5004	8/8/01	N/A	May 12, 2005 (Added 180K)
9	Cessna	182C to 182N	3A13	CAR 3 and Amendments listed in TCDS 3A13	EP5004	8/8/01	N/A	
10	Cessna	182P to 182R	3A13	CAR 3 and Amendments listed in TCDS 3A13	EP5004	8/8/01	N/A	
11	Cessna	185 to 185F A185E, A185F	3A24	CAR 3 and Amendments listed in TCDS 3A24	EP5004	8/8/01	N/A	

Page 1 of 1

FAA Approved:

Peter White

Peter White
 Acting Manager,
 New York Aircraft Certification Office

Reissue Date: May 12, 2005

WAIVER OF LIABILITY

MAPLE LEAF AVIATION LIMITED, or any partners therein are not liable for any defects in product manufacture related to any ground or in flight hazard, which may occur to persons associated with the use of the "Fancy Pants" modification.

Owners are responsible for the care and control of the modification and any drawings and instructions for installation and certification are purely intended for the proper and suggested installation technique for the kit.

It must be understood that each kit comes in an un-finished state and therefore we cannot control installation or maintenance of the fairing, therefore we must relinquish all responsibility upon shipment of said product.


MAPLE LEAF AVIATION LIMITED

DATE: June 13, 2018

Purchaser: Fun Air LLC
4504 Chesapeake PL
Amarillo, TX
79119-6445 USA

<u>ITEM</u>	<u>PART NO.</u>	<u>SERIAL NO.</u>
Exhaust Fairing	EP5001-001	W0618869

1. Approving Civil Aviation Authority / Country	2. TRANSPORT CANADA		3. Form Tracking	
4. Organization Name and Address Maple Leaf Aviation Limited Group 520, Box 16, RR#5 Brandon, MB R7A 5Y5 Canada		5. Work Order / Contract / Invoice PPF2018-2115 5403		

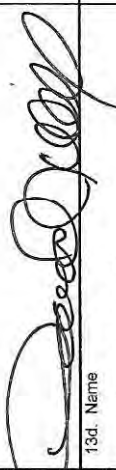
6. Item 1	7. Description Exhaust Fairing	8. Part No. EP5001-001	9. Qty. 1	10. Serial/ Batch No. W0618869	11. Status / Work Manufactured
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12. Remarks
Exhaust fairing to be installed in accordance of STC SA01386NY.

13a. Certifies that the items identified above were manufactured in conformity to:

Approved design data and are in condition for safe operation.

Non approved design data specified in block 12.

13b. Signature: 

13c. Approved Organization Number: **2-87 AMO#168-91**

13d. Name: **David J. Wall**

13e. Date (dd-mm-yyyy): **14-06-2018**

14a. Signature: GAR 671.13 Maintenance Release. Other regulation specified in block 12.

14b. Name

14c. Approved Organization Number

14d. Date (dd-mm-yyyy)

INSTALLER RESPONSIBILITIES

This certificate does not constitute authority to install.

Installers working in accordance with the national regulations of a country other than that specified in block 1 must ensure that their regulations recognize certifications from the country specified.

Statements in blocks 13a or 14a do not constitute installation certification. In all cases, the technical record for the aircraft must contain an installation certification issued in accordance with the applicable national regulations before the aircraft may be flown.