UNITED STATES OF AMERICA

DEPARTMENT OF TRANSPORTATION-FEDERAL AVIATION ADMINISTRATION

STANDARD AIRWORTHINESS CERTIFICATE

1 NATIONALITY AND REGISTRATION MARKS	2 MANUFACTURER AND MODEL	3 AIRCRAFT SERIAL NUMBER	4 CATEGORY
N4608N	Stinson V77	77-197	Normal

5 AUTHORITY AND BASIS FOR ISSUANCE

This airworthiness certificate is issued pursuant to 49 U.S.C. § 44704 and certifies that, as of the date of issuance, the aircraft to which issued has been inspected and found to conform to the type certificate therefor, to be in condition for safe operation, and has been shown to meet the requirements of the applicable comprehensive and detailed airworthiness code as provided by Annex 8 to the Convention on International Civil Aviation, except as noted herein.

Exceptions:

None

6 TERMS AND CONDITIONS

Unless sooner surrendered, suspended, revoked, or a termination date is otherwise established by the FAA, this airworthiness certificate is effective as long as the maintenance, preventative maintenance, and alterations are performed in accordance with Parts 21, 43, and 91 of the Federal Aviation Regulations, as appropriate, and the aircraft is registered in the United States.

DATE OF ISSUANCE	FAA REPRESENTATIVE	DESIGNATION NUMBER
R 08/27/1958	Steven O'Rourke	AEA-FSDO-07

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.

FAA Form 8100-2 (04-11) Supersedes Previous Edition

Date: April 28, 2017

In accordance with FAA Order 8130.2 as ammended, I hereby request a replacement Standard Airworthiness Certificate for: (print the following information)

Aircraft Registration Number N4608N

Aircraft Serial Number 77-197

Aircraft Make Stinson

Aircraft Model Vultee V77

This request is made because the: (check one of the following)

X Certificate was lost

_____ Certificate is deteriorated

_____ Registration number was changed

Printed Name John Seburn

Signature John Seburn 4-28-17

U.S. Department of Transportation
Federal Aviation Administration

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

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

Electronic Tracking Number

For FAA Use Only

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

1. Aircraft	Nationality and Registration Mark N4609N	Serial No. 77-197	
	Make Stinson	Model V-77	Series
2. Owner	Name (As shown on registration certificate) Easton John W.	Address (As shown on registration certificate) Address 606 South Washington Street City Greencastle State PA Zip 17225-1342 Country USA	

3. For FAA Use Only

4. Type		5. Unit Identification			
Repair	Alteration	Unit	Make	Model	Serial No.
☐	X	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			
Name	Richard E Hahn	X	U.S. Certificated Mechanic		Manufacturer
Address	527 Crossdroads Rd.		Foreign Certificated Mechanic	C. Certificate No.	
City	McConnellsburg State PA		Certificated Repair Station	AP194587498	
Zip	17233 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 ☐

Signature/Date of Authorized Individual: Richard E. Hahn July 14 2011 July 14 2011

7. Approval for Return To Service

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

BY		FAA Flt. Standards Inspector		Manufacturer		Maintenance Organization		Person Appoved by Canadian Department of Transport
		FAA Designee		Repair Station	X	Inspection Authorization		Other *(Specify)*

Certificate or Designation No. AP194587498IA

Signature/Date of Authorized Individual: Richard E. Hahn July 14 2011

FAA Form 337 (10-06)

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.)

N4608N	July 14 2011
Nationality and Registration Mark	Date

Installed Airwolf Filter Corp remote mount oil filter kit P/N AFC-K007 in accordance with STC# SA0002NY and manufactures installation instructions and drawings

ICA includes ispection for security at each 100 hr and annual inspection. After any oil change, always ground run the engine and check for leaks before flight.

Log books, equipment list, and weight and balance revised to reflect this installation.

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 11/30/2007

Electronic Tracking Number

For FAA Use Only

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

1. Aircraft	Nationality and Registration Mark N4608N	Serial No. 77-197	
	Make Stinson	Model V-77	Series
2. Owner	Name (As shown on registration certificate) Stinson Group LLC	Address (As shown on registration certificate) Address 129E Lake RD City Penn YAn State NY Zip 14527-9567 Country NY	

3. For FAA Use Only

4. Type		5. Unit Identification			
Repair	Alteration	Unit	Make	Model	Serial No.
☐	X	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		
Name Morgan Gay		X	U.S. Certificated Mechanic	☐ Manufacturer
Address 17 Runway RD		☐	Foreign Certificated Mechanic	C. Certificate No.
City Tunkhannock	State PA	☐	Certificated Repair Station	165609963
Zip 18657	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 ☐

Signature/Date of Authorized Individual 11-20-2008

7. Approval for Return To Service

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

BY							
		FAA Flt. Standards Inspector		Manufacturer		Maintenance Organization	Person Appoved by Canadian Department of Transport
		FAA Designee		Repair Station	X	Inspection Authorization	Other *(Specify)*

Certificate or Designation No. 165609963

Signature/Date of Authorized Individual 11-20-2008

FAA Form 337 (10-06)

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.)

N4608N	11-20-08
Nationality and Registration Mark	Date

1283.4 Hours Total Time

Removed aluminum airscoop P/N 77-54057 from lower cowling. Installed fiberglass duplicate scoop. Scoop was mounted in original manner to lower cowl.

Removed air filter assembly. Disassembled filter frame. Removed Air Maze filter element and discarded. Replaced with Brackett foam media. Installed #6 steel screen mesh on each side of the element, Installed screen with foam sandwiched between into the frame. Reassembled the frame with steel brackets. MS 24693-S50 screws and MS24080-08 nuts. Installed filter assembly into airscoop as per original. Engine was run to full power with no maniflod pressure or RPM loss. Brackett foam (Polyurethane) filters are FAA-PMA approved for use as a replacement for the original Air Maze paper filter.

These are exact copies of the scoop and filter installation on Stinson V-77 N7025T S/N 77-32 dated 10-19-2000 a copy of this field approval has been placed with the aircraft records.

For continued airworthiness inspect per FAR 43 appendix D

********** NOTHING FOLLOWS **********

☐ Additional Sheets Are Attached

Ozona Flight Service

REBUILDERS OF BRITISH RELIANT I AIRCRAFT

8702 Ducote Airpark Rd. • San Angelo, Texas 76904 • (9 15) 949-3694

October 19, 2000

DOT/FAA
FSDO 68
10100 Reunion Pl., Suite 200
San Antonio, TX 78216-4118

ATT: Ed Trayhan.

Field approval is requested for the use of a fiberglass air scoop and a modified filter pan in lieu of the originals which were destroyed. These assemblies are to be used on a Stinson AT-19 aircraft presently being restored in our shop.

The fiberglass air scoop and filter pan were fabericated from Stinson drawings. A undamaged air scoop was obtained and a mold was made. Using techniques similar to those currently being used in the fiberglass industries, the air scoop was made using a gel coat, 2 layers of fiberglass woven cloth and a fire resistant polyester resin. Weight oh the finished air scoop was 2.8lbs. compared to 2.6lbs for the original.

The filter pan was as per Stinson drawings and installed in the air scoop using rivets in lieu of spot welding. Along with the modified filter frame and foam media the air scoop was attached to the lower engine cowling as per original.

Sincerely,

Paul H. Shacklette IA 203203094

Enclosers;

1. Drawing list.
2. FAA Form 337.

DEPARTMENT OF TRANSPORTATION
FEDERAL AVIATION ADMINISTRATION

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

Form Approved
Budget Bureau No. 04-R060.1

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.

1. AIRCRAFT	MAKE: STINSON	MODEL: AT-19
	SERIAL NO.: 77-32	NATIONALITY AND REGISTRATION MARK: N7025T
2. OWNER	NAME (*As shown on registration certificate*): Telefilm Inc.	ADDRESS (*As shown on registration certificate*): 11828 Teale St. Culver City, CA 90230

3. FOR FAA USE ONLY

ATTACHMENT

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

11-3-2000 — Date

Frank D Dobing — FAA Inspector, SAT-FSDO

4. UNIT IDENTIFICATION

UNIT	MAKE	MODEL	SERIAL NO.	5. TYPE: REPAIR	5. TYPE: 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.
Paul H. Shacklette 8702 Ducöte Air Park Rd. San ANgelo, TX 76904	X U.S. CERTIFICATED MECHANIC FOREIGN CERTIFICATED MECHANIC CERTIFICATED REPAIR STATION MANUFACTURER	203203094

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: October 19, 2000

SIGNATURE OF AUTHORIZED INDIVIDUAL: Paul H. Shacklette

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	REPAIR STATION	CANADIAN DEPARTMENT OF TRANSPORT INSPECTOR OF AIRCRAFT	

DATE OF APPROVAL OR REJECTION	CERTIFICATE OR DESIGNATION NO.	SIGNATURE OF AUTHORIZED INDIVIDUAL
11-02-00	203203094	Paul H. Shacklette

FAA Form 337 (7-67)

(8120)

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.)*

1. The original Air Scoop, 77-54057 was damaged beyond repair and was discarded.
2. A fiberglass air scoop and filter pan were fabricated, as per drawings 77-54056 and 77-54056-1, and 77-52012 and 77-54058, using a undamaged air scoop as a pattern a mold was made. Using 8oz fiberglass woven cloth and fire resistent polyester resin the air scoop was made following method similar to that is used in the aircraft indrustry.
3. The filter pan was made as per drawings and installed in the air scoop, and along with the filter frame with the foam filter, the assembly was installed to the lower cowling as per original.

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

☐ ADDITIONAL SHEETS ARE ATTACHED

Ozona Flight Service

REBUILDERS OF BRITISH RELIANT I AIRCRAFT

8702 Ducote Airpark Rd. • San Angelo, Texas 76904 • (915) 949-3694

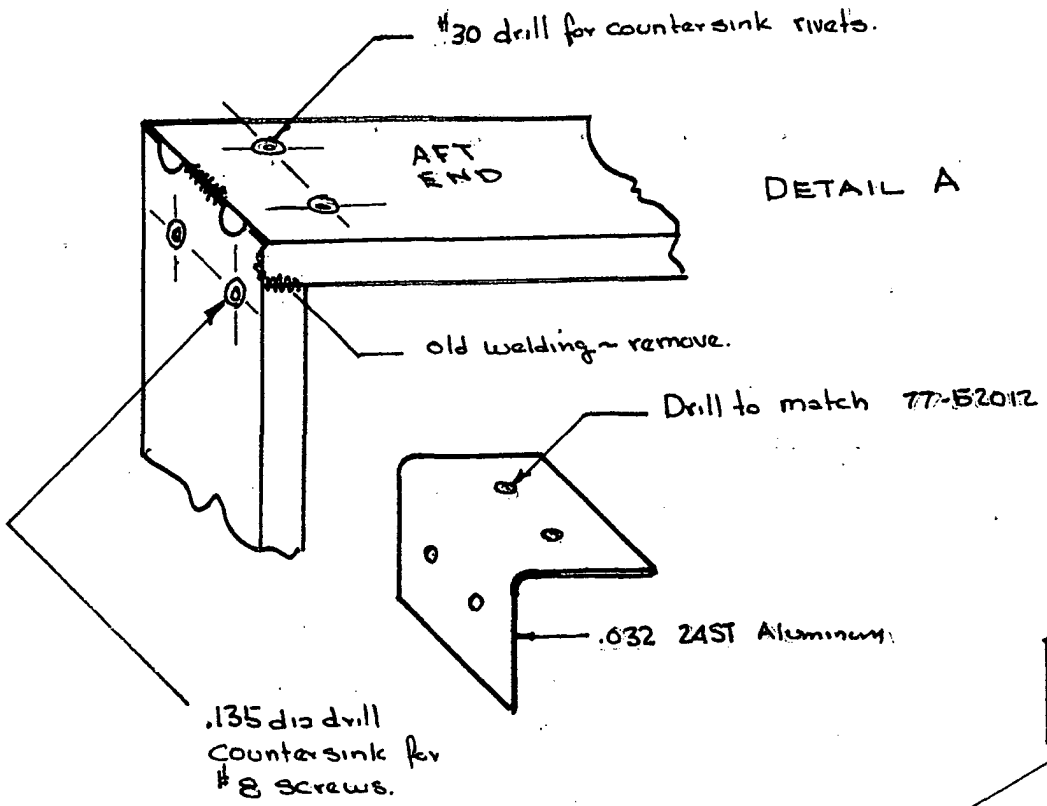
Ref: Stinson AT-19
N7025T s/n 77-32

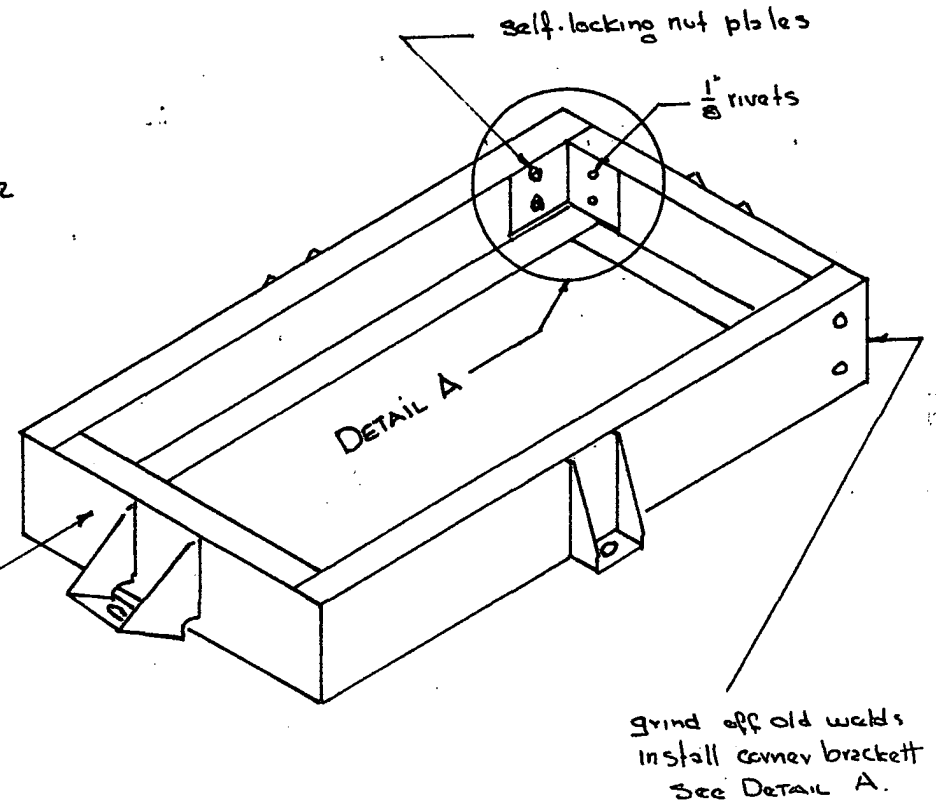
Instructions to convert the Air Maze filter to a foam median.

1. Grind off old welds on the aft end of the filter frame, p/n 77-52012.
2. Remove existing paper filter median and discard.
3. Install corner bracketd on aft end of the frame as shown in the drawing, and install nut plates as shown in detail A.
4. Cut foam to the a size that is 1/8" larger than the frame, cut the screen to fit inside the frame on two sides, bend the sides up a 1/4" as shown in the drawing.
5. Insert foam element between the screens, snd insert the foam/sandwich assembly into the frame, and using #8 screws, secure the end piece to the frame.
6. Reinstall filter assembly into the airscoop and install to the cowling.

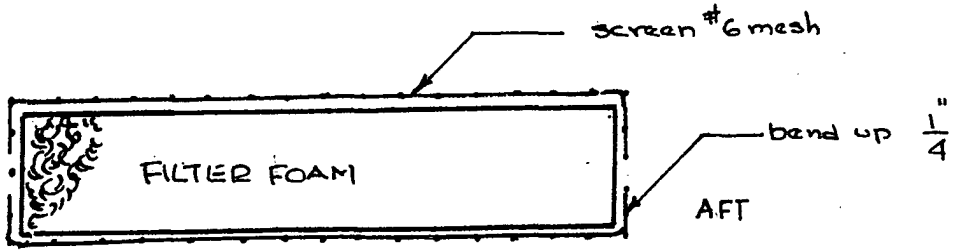
Materials required:

1ea. polyurethane foam element from Brackett Aircraft Co.
2ea. #6 wire mesh screen, 13"x 8".
2ea. .032x 2.00x 4.00 steel plate.
4ea AN26-4-4 rivets.
4ea MS21080-08 nuts
4ea. MS24693-S50 machine screws.





FRAME AIR INDUCTION
77-52012



screen & foam sandwich

PANAL, AIR
INDUCTION SYSTEM FILTER

Original: AIR MASE CORP.
CLEVELAND, OHIO

77-52012

DEPARTMENT OF TRANSPORTATION
FEDERAL AVIATION ADMINISTRATION

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

Form Approved
Budget Bureau No. 04-R060.1

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.

1. AIRCRAFT	MAKE: STINSON	MODEL: AT-19
	SERIAL NO.: 77-32	NATIONALITY AND REGISTRATION MARK: N7025T
2. OWNER	NAME (As shown on registration certificate): Telefilm Inc.	ADDRESS (As shown on registration certificate): 11828 Teale St. Culver City, CA 90230

3. FOR FAA USE ONLY

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

11-31-2000 Frank D Dobing
Date FAA Inspector, SAT-FSDO

4. UNIT IDENTIFICATION

UNIT	MAKE	MODEL	SERIAL NO.	5. TYPE: REPAIR	5. TYPE: 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.
Paul H. Shacklette 8702 Ducote Air park Rd. San Angelo, TX 76904	X U.S. CERTIFICATED MECHANIC FOREIGN CERTIFICATED MECHANIC CERTIFICATED REPAIR STATION MANUFACTURER	203203094

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: Oct. 19, 2000

SIGNATURE OF AUTHORIZED INDIVIDUAL: Paul H. Shacklette

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		REPAIR STATION		CANADIAN DEPARTMENT OF TRANSPORT INSPECTOR OF AIRCRAFT	

DATE OF APPROVAL OR REJECTION	CERTIFICATE OR DESIGNATION NO.	SIGNATURE OF AUTHORIZED INDIVIDUAL
11-02-00	203203094	Paul H. Shacklette

FAA Form 337 (7-67)

(8320)

NOTICE

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

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 original Air Maze Filter, p/n 77-52021.

1. Disassemblied air filter frame and ground off the old welds on the aft end of the frame.
2. Removed filter median and discarded.
3. Installed #6 screen mesh on both sides of the polyurethane element.
4. Installed screens with foam sandwiched between into the frame.
5. Reassemblied the frame with steel brackets, MS 24693-S50 screws and MS24080-08 nuts.
6. Install filter assembly into the airscoop as per original.
7. Engine was run to full power under each of the following conditions:

	RPM	MP
Full static power with no filter	2300	FT
Full static power with original filter	n/a	n/a
Full static power with BRACKETT filter	2300	FT

Brackett foam (polyurethane) filters are FAA-PMA approved for use as a replacement for the original Air Maze paper filter.

No change in the weight or balance due to this alteration.

---------- 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 11/30/2007

Electronic Tracking Number

For FAA Use Only

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

1. Aircraft	Nationality and Registration Mark: N4608N	Serial No.: 77-197	
	Make: Stinson	Model: V-77	Series:
2. Owner	Name (As shown on registration certificate): Stinson Group LLC	Address (As shown on registration certificate): Address 129 E LAKE RD; City PENN YAN; State NY; Zip 14527-9567; Country USA	

3. For FAA Use Only

4. Type / **5. Unit Identification**

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

6. Conformity Statement

A. Agency's Name and Address

Name: Morgan Gay
Address: 17 Runway RD
City: Tunkhannock State: PA
Zip: 18657 Country: USA

B. Kind of Agency

X	U.S. Certificated Mechanic		Manufacturer
	Foreign Certificated Mechanic	C. Certificate No.	
	Certificated Repair Station	165609963	
	Certificated Maintanance Organization		

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

Extended range fuel per 14 CFR Part 43 App. B ☐

Signature/Date of Authorized Individual: 11-20-2008

7. Approval for Return To Service

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

BY		FAA Flt. Standards Inspector		Manufacturer		Maintenance Organization		Person Appoved by Canadian Department of Transport
		FAA Designee		Repair Station	X	Inspection Authorization	Other	*(Specify)*

Certificate or Designation No.: 165609963

Signature/Date of Authorized Individual: 11-20-2008

FAA Form 337 (10-06)

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.)

N4608N	11-20-08
Nationality and Registration Mark	Date

1283.4 Hours Total Time

Removed fabric covering from airframe. Installed Ceconite 101 covering material in accordance with STC #SA4503NM and Procedure Manual 101 for the Ceconite Aircraft Covering Process revised January 2003.

For continued airworthiness inspect condition of fabric per FAR 43 appendix D.

********** **NOTHING FOLLOWS** **********

☐ Additional Sheets Are Attached

United States of America

Department of Transportation — Federal Aviation Administration

Supplemental Type Certificate

Number SA4503NM

This certificate, issued to Ceconite Inc.
4320 Rubidoux Blvd., P. O. Box 3129
Riverside, CA 92509-3129

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. SA4503NM for list of approved airplane models and applicable airworthiness regulations

Description of Type Design Change: Remove original cloth covering and install Ceconite covering material in accordance with Procedure Manual 101 for the Ceconite Aircraft Covering Process, August 1997 Revision or later FAA approved revision.

Limitations and Conditions: The approval for this modification applies to the aircraft models on the attached FAA Approved Model List No. SA4503NM only. This approval should not be extended to other specific aircraft of this model series on which other approved modifications are incorporated, unless it is determined that the interrelationship between this change and any previously approved configuration will not introduce any adverse effect upon the airworthiness of the aircraft. This modification was determined not to increase the noise level and was not considered an "acoustic change" as defined in section 21.93(b), Amendment 21-71 of the Federal Aviation Regulations.

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: June 6, 1988

Date reissued: November 13, 1997

Date of issuance: July 12, 1989

Date amended:

By direction of the Administrator

(Signature)

Manager, Airframe Branch
Los Angeles Aircraft Certification Office
(Title)

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

This certificate may be transferred in accordance with FAR 21.47.

FAA Form 8110-2 (10-68)

FAA Approved Model List (AML) No. SA4503NM

Item No.	Aircraft Make	Model	Original Type Certificate	Components	AML Amend.
228	Stinson	SR-9A, SR-9B (Army UC-81N), SR-9C (Army UC-81C)	ATC 621	All fabric covered components	
229	Stinson	SR-9D (Army UC-81G), SR-9DM, SR-9E (Army UC-81J), SR-9EM (Army UC-81M)	ATC 625	All fabric covered components	
230	Stinson	SR-9F (Army UC-81E)	ATC 640	All fabric covered components	
231	Stinson	HW-75, 10	A-709	All fabric covered components	
232	Stinson	10A (Army L-9B), 10B	A-738	All fabric covered components	
233	Stinson	Army L-1	LTC-26	All fabric covered components	
234	Stinson	L-5, -5B, -5C, -5D, -5E, -5E-1, -5G	A-764	All fabric covered components	
235	Stinson	108, 108-1, -2, -3, -5	A-767	All fabric covered components	1/1/2003
* 236	Stinson	V-77 (Army AT-19)	A-774	All fabric covered components	*
237	Taylorcraft	Model A	A-643	All fabric covered components	1/1/2003
238	Taylorcraft	DC-65 (Army L-2, -2C), DCO-65 (Army L-2A, -2B, -2M), *DF-65 (Army L-2E), DL-65 (Army L-2D)*	A-746	All fabric covered components	1/1/2003
239	Taylorcraft	BC, BCS, BC-65, BCS-65, BC12-65 (Army L-2H), BCS12-65, BC12-D, BCS12-D, BC12-D1, BCS12-D1, BC12D-85, **BCS12D-85**, BC12D-4-85, BCS12D-4-85	A-696	All fabric covered components	1/1/2003
240	Taylorcraft	BF (Army L-2G), BFS, BF-60, BFS-60, BF-65, BFS-65, BF12-65 (Army L-2K), BFS12-65	A-699	All fabric covered components	
241	Taylorcraft	BL, BLS, BL-65 (Army L-2F), BLS-65, BL12-65 (Army L-2J), BLS12-65	A-700	All fabric covered components	
242	Taylorcraft	19, F19, F21, F21A, F21B, F22, F22A	1A9	All fabric covered components	1/1/2003
243	Taylorcraft (Helio)	Model 15A, 20	3A3	All fabric covered components	
244	Travel Air (Curtiss-Wright)	Travel Air 12-W	ATC 407	All fabric covered components	
245	Travel Air (Curtiss-Wright)	Travel Air 4000	ATC 32	All fabric covered components	
246	Travel Air (Curtiss-Wright)	Travel Air B-4000	ATC 146	All fabric covered components	
247	Travel Air (Curtiss-Wright)	Travel Air B9-4000	TC 2-381	All fabric covered components	
248	Travel Air (Curtiss-Wright)	Travel Air C-4000	ATC 149	All fabric covered components	

U.S. Department of Transportation
Federal Aviation Administration

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

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

Electronic Tracking Number

For FAA Use Only

INSTRUCTIONS: Print or type all entries. See Title 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 N4608N	Serial No. 77-197	
	Make Stinson	Model V-77	Series
2. Owner	Name (As shown on registration certificate) Stinson Group LLC	Address (As shown on registration certificate) Address 129 E Lake RD City Penn Yan State NY Zip 14527-9567 Country USA	

3. For FAA Use Only

4. Type		5. Unit Identification			
Repair	Alteration	Unit	Make	Model	Serial No.
☐	☒	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		
Name Morgan Gay		☒ U.S. Certificated Mechanic	☐ Manufacturer	
Address 17 Runway RD		☐ Foreign Certificated Mechanic	C. Certificate No.	
City Tunkhannock State PA		☐ Certificated Repair Station	165609963	
Zip 18657 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 ☐

Signature/Date of Authorized Individual 11-20-2008

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	X	Maintenance Organization	Person Appoved by Canadian Department of Transport
		FAA Designee		Repair Station	X	Inspection Authorization	Other *(Specify)*

Certificate or Designation No. 165609963

Signature/Date of Authorized Individual 11-20-2008

FAA Form 337 (10-06)

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.)

N4608N	11-20-08
Nationality and Registration Mark	Date

1283.4 Hours Total Time

1. Removed Narco VC-27A Comm radio and V12MP2A power supply.
2. Removed VOA-3 Nav receiver and CS-3A indicator
3. Installed Icom IC-A200 Comm radio. Connected to existing comm antenna on fuselage cabin top.
4. Installed Sigtronics SPA-400 intercom. Connected to existing mike and phone jacks.
5. Installed Garmin GTX320A transponder, installed transponder antenna on lower fuselage boot cowl at station 56.5
6. Radios installed in area of lower instrument panel where previously installed radios were removed
6. Installed Trans Cal SSD-120 Altitude encoder at lower right hand sidewall of cabin. Connected encoder to existing static line T fitting.
7. Power provided from aircraft bus to each piece of equipment through individual circuit breakers.

All installations performed in accordance with applicable manufacturers installation instructions, AC 43.13-2B chapter 2 par 203,207 and Chapter 3 par 300-310.

For continued airworthiness inspect installations in accordance with FAR 43 Appendix D. Test Transponder and encoder every 24 Calendar months in accordance with FAR 91.413 and FAR 43 appendix F

********** **NOTHING FOLLOWS** **********

☐ 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 11/30/2007

Electronic Tracking Number

For FAA Use Only

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

1. Aircraft	Nationality and Registration Mark N4608N	Serial No. 77-197	
	Make Stinson	Model V-77	Series
2. Owner	Name (As shown on registration certificate) Stinson Group LLC	Address (As shown on registration certificate) Address 129 E Lake RD City PENN YAN State NY Zip 14527-9567 Country USA	

3. For FAA Use Only

4. Type		5. Unit Identification			
Repair	Alteration	Unit	Make	Model	Serial No.
☐	☒	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			
Name	Morgan Gay	X	U.S. Certificated Mechanic		Manufacturer
Address	17 Runway RD		Foreign Certificated Mechanic	C. Certificate No.	
City	Tunkhannock State PA		Certificated Repair Station	165609963	
Zip	18657 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 ☐

Signature/Date of Authorized Individual 11-20-2008

7. Approval for Return To Service

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

BY		FAA Flt. Standards Inspector		Manufacturer		Maintenance Organization		Person Appoved by Canadian Department of Transport
		FAA Designee		Repair Station	X	Inspection Authorization		Other *(Specify)*

Certificate or Designation No. 165609963

Signature/Date of Authorized Individual 11-20-2008

FAA Form 337 (10-06)

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.)

N4608N	11-20-08
Nationality and Registration Mark	Date

1283.4 Hours Total Time

Removed original Goodyear brakes and master cylinders. Replaced with Cleveland brake conversion kit No. 199-167 in accordance with STC # SA2691SO and Redline Corportation drawing No. H119, dated September 14, 1989

For continued airworthiness inspect in accordance with FAR 43 appendix D.

********** NOTHING FOLLOWS **********

☐ Additional Sheets Are Attached

United States of America

Department of Transportation — Federal Aviation Administration

Supplemental Type Certificate

Number SA2691SO

This certificate, issued to Daniel F. Kumler
8750 S.E. 70th Terrace
Ocala, Florida 32672

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 eligibility list number
Make: 199-167 for approved airplane models
Model: and airworthiness regulations

Description of Type Design Change:

Replacement of Goodyear Brakes with Cleveland Brake Conversion Kit No. 199-167 in accordance with Redline Corporation Drawing No. H119, dated September 14, 1989, 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 produce no adverse effect upon the airworthiness of that airplane. This determination should include consideration of significant changes in weight distribution such as an increase in the fixed disposable weight in the fuselage.

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

Date of application: September 22, 1988 *Date reissued:*

Date of issuance: February 14, 1990 *Date amended:* May 2, 1994

By direction of the Administrator

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

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

This certificate may be transferred in accordance with FAR 21.47.

FAA Form 8110-2 (10-68)

United States of America

Department of Transportation—Federal Aviation Administration

Supplemental Type Certificate

(Continuation Sheet)

Number SA2691SO

* FAA Approved Master Eligibility List (MEL) No. 199-167, Installation of Cleveland Hydraulic Brake Conversion Kit No. 199-167.

Airplane Make	Airplane Model	Original Type Certification Number	Certification Basis
Beechcraft	B17L	ATC 560	CAR 4a
	C17L	ATC 602	CAR 4a
	D17S	ATC 649	CAR 4a
	E17L	ATC 641	CAR 4a
	F17D	ATC 689	CAR 4a
	G17S	ATC 779	CAR 4a
Howard	DGA-15 Series	A-717	CAR 4a
Stinson Aircraft	SR6	ATC 580	CAR 4a
	SR7	ATC 594	CAR 4a
	SR8	ATC 608	CAR 4a
	SR9	ATC 625	CAR 4a
	SR10	ATC 679	CAR 4a
	* V77	ATC 774	CAR 4a *
Spartin Aircraft	7W	ATC 646	CAR 4a

MAY 2 1994
Date

Manager, Atlanta 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.

FAA FORM 8110-2-1 (10-69)

This certificate may be transferred in accordance with FAR 21.47.

Replaced Airworthiness Certificate Due Lost

UNITED STATES OF AMERICA
DEPARTMENT OF TRANSPORTATION—FEDERAL AVIATION ADMINISTRATION

STANDARD AIRWORTHINESS CERTIFICATE

1. NATIONALITY AND REGISTRATION MARKS	2. MANUFACTURER AND MODEL	3 AIRCRAFT SERIAL NUMBER	4 CATEGORY
N4608N	STINSON - V77	77-197	NORMAL

5. AUTHORITY AND BASIS FOR ISSUANCE

This airworthiness certificate is issued pursuant to the Federal Aviation Act of 1958 and certifies that, as of the date of issuance, the aircraft to which issued has been inspected and found to conform to the type certificate therefor, to be in condition for safe operation, and has been shown to meet the requirements of the applicable comprehensive and detailed airworthiness code as provided by Annex 8 to the Convention on International Civil Aviation, except as noted herein.

Exceptions:

NONE

NEW

6 TERMS AND CONDITIONS

Unless sooner surrendered, suspended, revoked, or a termination date is otherwise established by the Administrator, this airworthiness certificate is effective as long as the maintenance, preventative maintenance, and alterations are performed in accordance with Parts 21, 43, and 91 of the Federal Aviation Regulations, as appropriate, and the aircraft is registered in the United States.

DATE OF ISSUANCE	FAA REPRESENTATIVE	DESIGNATION NUMBER
R 08/27/1958	GORDON H. FELLOWS	AEA-FSDO-23

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.

FAA Form 8100-2 (8-82) * U.S. G.P.O.:1998 669-038

Lost.

FAA AIRCRAFT REGISTRY
CAMERA NO. 5 DATE: 1-4-85

U. S. DEPARTMENT OF COMMERCE
CIVIL AERONAUTICS ADMINISTRATION

APPLICATION FOR AIRWORTHINESS CERTIFICATE AND/OR ANNUAL INSPECTION OF AN AIRCRAFT

Form Approved. Budget Bureau No. 41-R041.5.

INSTRUCTIONS
Please print or type. Submit this form to the Civil Aeronautics Administration Aviation Safety Field Representative.

1. TYPE OF APPLICATION (*Check which*)

a. ☒ ORIGINAL ISSUANCE OF CERTIFICATE
b. ☐ ANNUAL INSPECTION FOR RENEWAL OF CERTIFICATE
c. ☐ AMENDMENT OR MODIFICATION OF CURRENT CERTIFICATE
d. ☐ RECERTIFICATION UNDER THE PROVISIONS OF CAR 8
e. ☐ MULTIPLE CERTIFICATE UNDER THE PROVISIONS OF CAR 8
f. ☐

2. AIRWORTHINESS CLASSIFICATION (*Check appropriate item(s)*)
It is requested that the Certificate of Airworthiness be issued to permit operation of the aircraft in the following airworthiness classification(s):

a. ☒ STANDARD (NORMAL, UTILITY, ACROBATIC, TRANSPORT CATEGORIES)
b. ☐ LIMITED (SEE CAR 9)
c. ☐ RESTRICTED (SEE CAR 8)
(*Check the restricted special purpose operation(s) to be conducted*)
☐ AGRICULTURAL AND PEST CONTROL
☐ AERIAL ADVERTISING
☐ AERIAL SURVEYING
☐ GLIDER TOWING
☐ PATROLLING
☐ FOREST AND WILDLIFE CONSERVATION
☐ WEATHER CONTROL
☐ OTHER
d. ☐ EXPERIMENTAL
(*Check the type of experimental operation(s) to be conducted*)
☐ RESEARCH AND DEVELOPMENT
☐ AMATEUR-BUILT
☐ DEMONSTRATION
☐ RACING
☐ EXHIBITION
☐ OTHER

3. AIRCRAFT IDENTIFICATION (*Complete all items*)

a. AIRCRAFT MAKE	b. AIRCRAFT MODEL	c. AIRCRAFT SERIAL NO.
STinson	V-77	77-197

d. ENGINE MAKE	e. ENGINE MODEL
Lycoming	R680E3B

4. AIRCRAFT REGISTRATION INFORMATION (*Complete all items*)

a. REGISTERED OWNER'S FULL NAME	b. PERMANENT MAILING ADDRESS	c. AIRCRAFT NATIONALITY AND REGISTRATION MARK
William H. Digney	2500 E Boulder Colo. Springs Colo.	N- 4608N

5. AIRCRAFT OWNER'S CERTIFICATION (*Check and complete appropriate item*)
I hereby certify that I am the registered owner (or his agent) of the aircraft identified in Item 3 above which is registered* with the Civil Aeronautics Administration as required by the Regulations of the Administrator, Part 501 or 502 and when operated displays the following evidence of registration:

a. ☒ CERTIFICATE OF REGISTRATION, FORM ACA-500 (PART A). DATE OF ISSUE Sept. 26, 1957
b. ☐ APPLICATION FOR REGISTRATION, FORM ACA-500 (PART B). FORM ACA-500, PART A, FORWARDED TO CAA AIRCRAFT RECORDS BRANCH, W-300 ON _____ (DATE)
c. ☐ DEALER'S REGISTRATION CERTIFICATE, FORM ACA-1707, DATED _____

*In order to be eligible for registration an aircraft must be owned by a citizen of the United States, as defined by Section 1 (13) of the Civil Aeronautics Act of 1938, as amended.

ATTACHMENTS (*Check which*)
☐ ACA-319
☐ ACA-337
☐ ACA-317
☐ WEIGHT AND BALANCE REPORT
☐ DATA, DRAWINGS, ETC.
☐ UNAPPROVED DEVIATION DATA

E. J. Havenga
(SIGNATURE OF REGISTERED OWNER OR AUTHORIZED AGENT)
8/27/58 (DATE)
Agent (TITLE)

16—60887-2

Form ACA-305 (11-51)

FAA AIRCRAFT REGISTRY
CAMERA NO. 5 DATE: 1-4-85

U. S. DEPARTMENT OF COMMERCE
CIVIL AERONAUTICS ADMINISTRATION

AIRCRAFT INSPECTION REPORT

(To be completed by a CAA representative or approved repair station)

The aircraft described in Item 3 on the reverse of this form has been inspected and found to conform to the following:
(Check and complete applicable items)

1. AIRCRAFT AND ENGINE CERTIFICATION BASIS
   - a. ☐ AIRCRAFT SPECIFICATION NO. A-774 THROUGH SHEET REVISION NO. —
   - b. ☐ AIRCRAFT LISTING PAGE NO. _____
   - c. ☑ AIRWORTHINESS DIRECTIVE SUMMARY 1958 (YEAR) THROUGH CARD NO. 15
   - d. ☐ CIVIL AIR REGULATION PART 8 (MODIFIED TYPE CERTIFICATE)

2. AIRCRAFT AND ENGINE OPERATING RECORDS
   - a. ☐ AIRCRAFT NEW—NO PREVIOUS OPERATION OR MAINTENANCE HISTORY
   - b. ☑ COMPLIANCE WITH APPLICABLE AIRWORTHINESS DIRECTIVES RECORDED
   - c. ☑ AIRCRAFT RECORDS INDICATE THE AIRFRAME HAS BEEN OPERATED A TOTAL OF 811.55 HOURS
   - d. ☑ ENGINE RECORDS INDICATE THE FOLLOWING OPERATION:
     - SERIAL NO. 42-172166 TOTAL HOURS 619.15
     - SERIAL NO. _____ TOTAL HOURS _____
     - SERIAL NO. _____ TOTAL HOURS _____
     - SERIAL NO. _____ TOTAL HOURS _____

3. PREVIOUS INSPECTION RECORD (INSPECTION RECORDED ON FORM ACA-319)
   - a. LAST AIRWORTHINESS INSPECTION CONDUCTED 8-26-58 (DATE)
     - ☐ BY AIRCRAFT MANUFACTURER
     - ☐ BY APPROVED REPAIR STATION, CERTIFICATE NO. _____
     - ☑ BY MECHANIC, CERTIFICATE NO. E. F. Havenga A & E 1163415
   - b. ☑ PERIODIC AIRCRAFT INSPECTION REPORT, ~~FORM ACA-319~~, WAS RETURNED TO OWNER Log book entry

4. AIRWORTHINESS DOCUMENTS ISSUED OR REVIEWED
   - a. ☐ OPERATION LIMITATIONS, FORM ACA-309, WAS ISSUED (COPY ATTACHED)
   - b. ☑ CURRENT OPERATION LIMITATIONS, FORM ACA-309, IS AVAILABLE IN AIRCRAFT
   - c. ☐ CURRENT APPROVED AIRPLANE FLIGHT MANUAL IS AVAILABLE IN AIRCRAFT
   - d. ☑ CURRENT WEIGHT AND BALANCE INFORMATION IS AVAILABLE IN AIRCRAFT
   - e. ☑ THIS INSPECTION HAS BEEN RECORDED IN THE AIRCRAFT RECORDS
   - f. ☑ CERTIFICATE OF AIRWORTHINESS, FORM ACA-1362, ISSUED TO EXPIRE Permament (DATE)
   - g. ☑ PREVIOUS FORM ACA-1362 WAS ISSUED TO EXPIRE Unreadable (DATE)
     - BY _____ (NAME OF ISSUING REPRESENTATIVE) _____ (DESIGNATION NO.)

5. CAA APPROVED REPAIR STATION CERTIFICATION

   The aircraft described on the reverse has been inspected under the authority accorded certificated repair station No. _____ by CAR 52 and was found to be:
   - ☐ AIRWORTHY
   - ☐ UNAIRWORTHY

   _____ (REPAIR STATION AUTHORIZED SIGNATURE) _____ (DATE)

6. CAA REPRESENTATIVE CERTIFICATION

   I HAVE INSPECTED THE AIRCRAFT DESCRIBED ON THE REVERSE AND FOUND IT ☑ AIRWORTHY ☐ UNAIRWORTHY *(Check appropriate item)*

DESIGNEE'S SIGNATURE	DESIGNATION NO.	DATE	
AVIATION SAFETY AGENT'S SIGNATURE	CAA DESIGNATION NO. Reg. 2 FW ASDO 1	DATE 8-27-58	☐ ACCEPTED ☐ REINSPECTED ☐ SPOT CHECKED

☐ ATTACHMENT

FAA AIRCRAFT REGISTRY
CAMERA NO. 5 DATE: 1-4-85

FEDERAL AVIATION AGENCY

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

Form Approved
Budget Bureau No. 04-R060.1

FOR FAA USE ONLY

OFFICE IDENTIFICATION
FAR GADO 3-3-07

INSTRUCTIONS: Print or type all entries. See FAR 43.9, FAR 43 Appendix B, and AC 43.9-1 (or subsequent revision thereof) for instructions and disposition of this form.

1. AIRCRAFT	MAKE: Stinson	MODEL: V-77
	SERIAL NO.: 77-197	NATIONALITY AND REGISTRATION MARK: N4608N
2. OWNER	NAME (As shown on registration certificate): Henning, Ralph H. Odegaard, Robert J.	ADDRESS (As shown on registration certificate): P.O. 542 Kindred, N.D.

3. FOR FAA USE ONLY

The alteration identified herein complies with applicable airworthiness requirements and is approved only for the above described aircraft subject to conformity inspection by a person authorized in FAR 43.5.

10/29/71 Robert J. Odegaard
Date FAR GADO 3-3-07

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.
Robert J. Odegaard Hickson N.D.	X U.S. CERTIFICATED MECHANIC; FOREIGN CERTIFICATED MECHANIC; CERTIFICATED REPAIR STATION; MANUFACTURER	A&P 1633071

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: Oct 22, 1971

SIGNATURE OF AUTHORIZED INDIVIDUAL: Robert J. Odegaard

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 Agency and is ☒ APPROVED ☐ REJECTED

	FAA FLT. STANDARDS INSPECTOR	MANUFACTURER	X	INSPECTION AUTHORIZATION	OTHER (Specify)
	FAA DESIGNEE	REPAIR STATION		CANADIAN DEPARTMENT OF TRANSPORT INSPECTOR OF AIRCRAFT	

DATE OF APPROVAL OR REJECTION	CERTIFICATE OR DESIGNATION NO.	SIGNATURE OF AUTHORIZED INDIVIDUAL
Oct 29, 1971	1633071	Robert J. Odegaard

FAA Form 337 (1-65) OBSOLETE PREVIOUS EDITION 0052-025-8000 (8320)

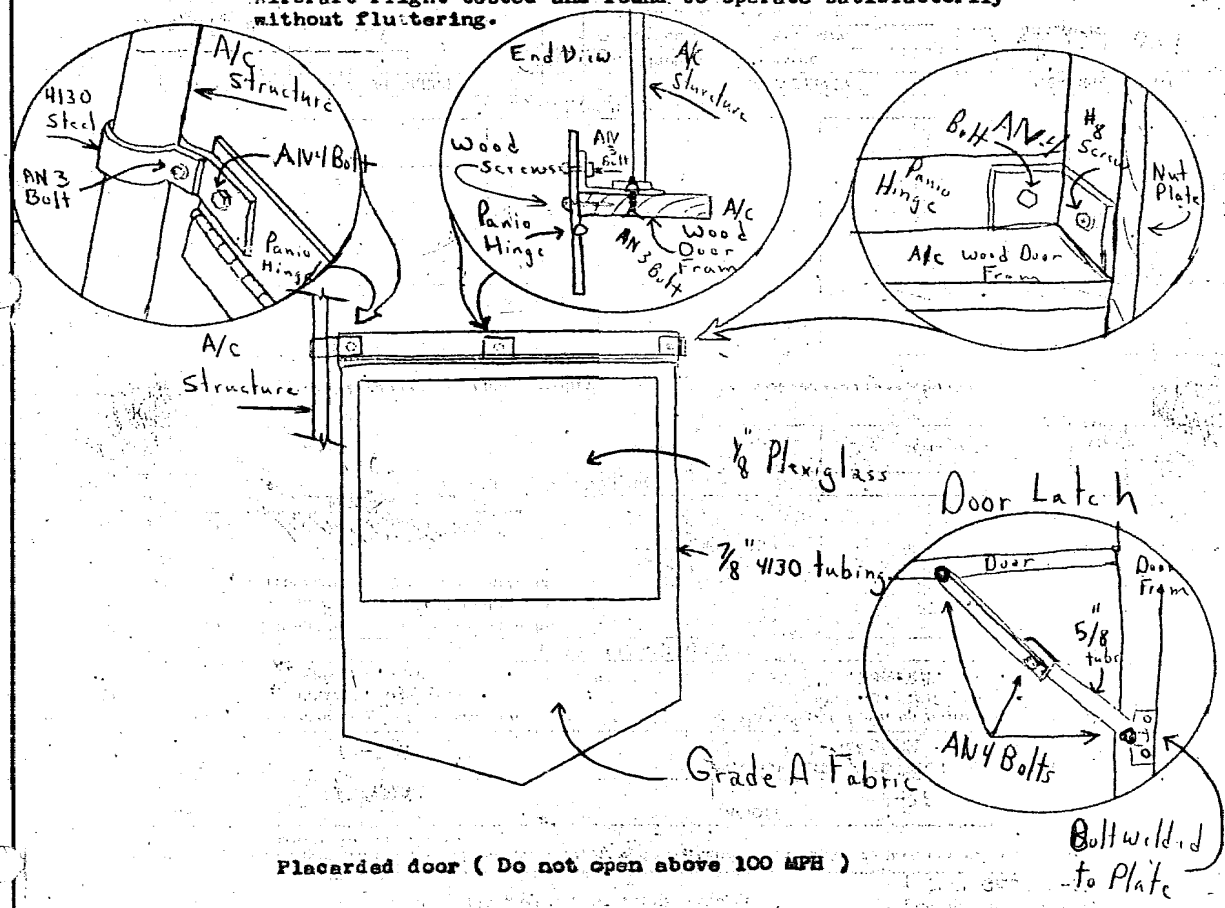
FAA AIRCRAFT REGISTRY
CAMERA NO. 5 DATE: 1-4-85

NOTICE

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

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

1. Manufactured cabin door of 7/8" Diameter 4130 tubing and covered portions of the door with grade A fabric and 1/8" Plexiglass as shown in the drawing below. Attached door to cabin with a Panio hinge and brackets made of 4130 steel .040" ~~THICK~~ thick in accordance with the diagram below. Manufactured door latch of steel and also in accordance with the drawing below. See Aircraft weight and balance report for weight change. Aircraft flight tested and found to operate satisfactorily without fluttering.



Placarded door (Do not open above 100 MPH)

THE END

☐ ADDITIONAL SHEETS ARE ATTACHED

U.S. GOVERNMENT PRINTING OFFICE : 1965 OF—761-7

FAA AIRCRAFT REGISTRY
CAMERA NO. 5 DATE: 1-4-85

FEDERAL AVIATION AGENCY

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

Form Approved
Budget Bureau No. 04-R060.1

FOR FAA USE ONLY

OFFICE IDENTIFICATION
FAR GADO 3-3-07

INSTRUCTIONS: Print or type all entries. See FAR 43.9, FAR 43 Appendix B, and AC 43.9-1 (or subsequent revision thereof) for instructions and disposition of this form.

1. AIRCRAFT	MAKE: Stinson	MODEL: V-77
	SERIAL NO.: 77-197	NATIONALITY AND REGISTRATION MARK: N4605M
2. OWNER	NAME (As shown on registration certificate): Henning, Ralph H. Odegaard, Robert J.	ADDRESS (As shown on registration certificate): P.O. Box 542 Kindred, N.D.

3. FOR FAA USE ONLY

The alteration identified herein complies with applicable airworthiness requirements and is approved only for the above described aircraft subject to conformity inspection by a person authorized in FAR 43.5.

9-16-71 (Date) — Robert J. Odegaard (FAR GADO 3-3-07)

4. UNIT IDENTIFICATION

UNIT	MAKE	MODEL	SERIAL NO.	5. TYPE: REPAIR	5. TYPE: 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.
Robert J. Odegaard Hickson, N.D.	X U.S. CERTIFICATED MECHANIC; FOREIGN CERTIFICATED MECHANIC; CERTIFICATED REPAIR STATION; MANUFACTURER	AAP 1633071

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: Sep 14, 1971

SIGNATURE OF AUTHORIZED INDIVIDUAL: Robert J. Odegaard

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 Agency and is ☒ APPROVED ☐ REJECTED

	FAA FLT. STANDARDS INSPECTOR		MANUFACTURER	X	INSPECTION AUTHORIZATION
	FAA DESIGNEE		REPAIR STATION		CANADIAN DEPARTMENT OF TRANSPORT INSPECTOR OF AIRCRAFT

OTHER (Specify)

DATE OF APPROVAL OR REJECTION	CERTIFICATE OR DESIGNATION NO.	SIGNATURE OF AUTHORIZED INDIVIDUAL
Sept 16 1971	1633071	Robert J. Odegaard

FAA Form 337 (1-65) OBSOLETE PREVIOUS EDITION

0052-025-8000 (8320)

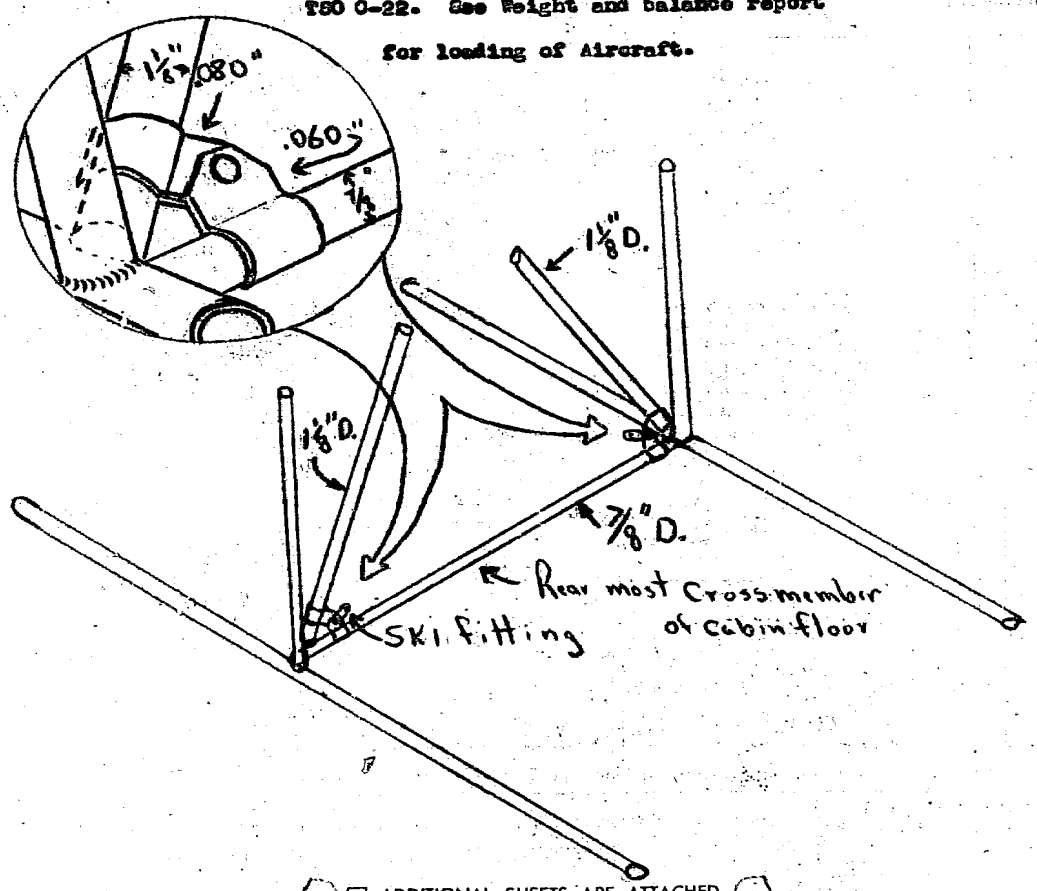
FAA AIRCRAFT REGISTRY
CAMERA NO. 5 DATE: 1-4-85

NOTICE

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

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

1. Installed seat belt in baggage area. Fabricated clamps of 4130 steel. Attached two clamps and a ski fitting using an AN-5 bolt and an AN-365 lock nut. Then using the other end of the ski fitting to attach a belt which conforms to CAA-TSO C-22. See Weight and balance report for loading of Aircraft.



☐ ADDITIONAL SHEETS ARE ATTACHED

U.S. GOVERNMENT PRINTING OFFICE : 1965 OF—761-7

FAA AIRCRAFT REGISTRY
CAMERA NO. 5 DATE: 1-4-85

FEDERAL AVIATION AGENCY

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

Form Approved
Budget Bureau No. 04-R060.1

FOR FAA USE ONLY

OFFICE IDENTIFICATION RM-GAD0-4

INSTRUCTIONS: Print or type all entries. See FAR 43.9, FAR 43 Appendix B, and AC 43.9-1 (or subsequent revision thereof) for instructions and disposition of this form.

1. AIRCRAFT	MAKE: Stinson	MODEL: V-77
	SERIAL NO.: 77-179	NATIONALITY AND REGISTRATION MARK: N4608N
2. OWNER	NAME (As shown on registration certificate): Henning, Ralph H. Odegaard, Robert J.	ADDRESS (As shown on registration certificate): P.O. box 542 Kindred, N.D.

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				

APR 1971 GENERAL SAFETY DISTRICT OFFICE FARGO, N. D.

6. CONFORMITY STATEMENT

A. AGENCY'S NAME AND ADDRESS	B. KIND OF AGENCY	C. CERTIFICATE NO.
Robert J Odegaard Hickson, N.D.	X U.S. CERTIFICATED MECHANIC; FOREIGN CERTIFICATED MECHANIC; CERTIFICATED REPAIR STATION; MANUFACTURER	A&P 1633071

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
April 15, 1971	Robert J Odegaard

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 Agency and is [X] APPROVED [ ] REJECTED

	FAA FLT. STANDARDS INSPECTOR	MANUFACTURER	X	INSPECTION AUTHORIZATION	OTHER (Specify)
	FAA DESIGNEE	REPAIR STATION		CANADIAN DEPARTMENT OF TRANSPORT INSPECTOR OF AIRCRAFT	

DATE OF APPROVAL OR REJECTION	CERTIFICATE OR DESIGNATION NO.	SIGNATURE OF AUTHORIZED INDIVIDUAL
April 15, 1971	A&P 1633071	Robert J Odegaard

FAA Form 337 (1-65) OBSOLETE PREVIOUS EDITION 0052-025-8000 (8320)

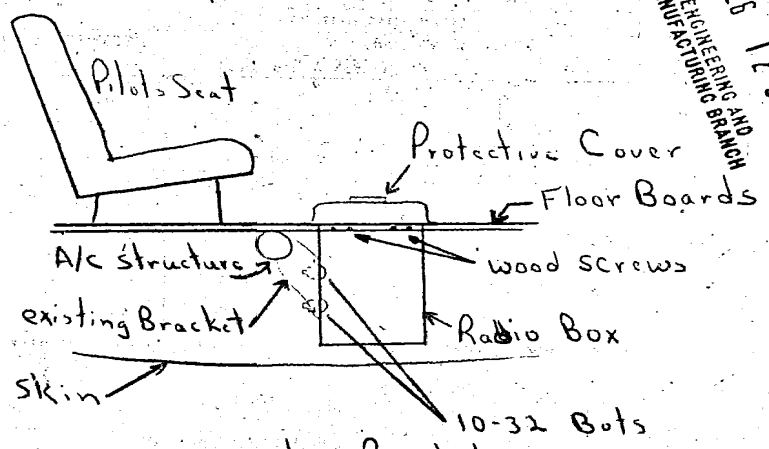
FAA AIRCRAFT REGISTRY
CAMERA NO. 5 DATE: 1-4-85

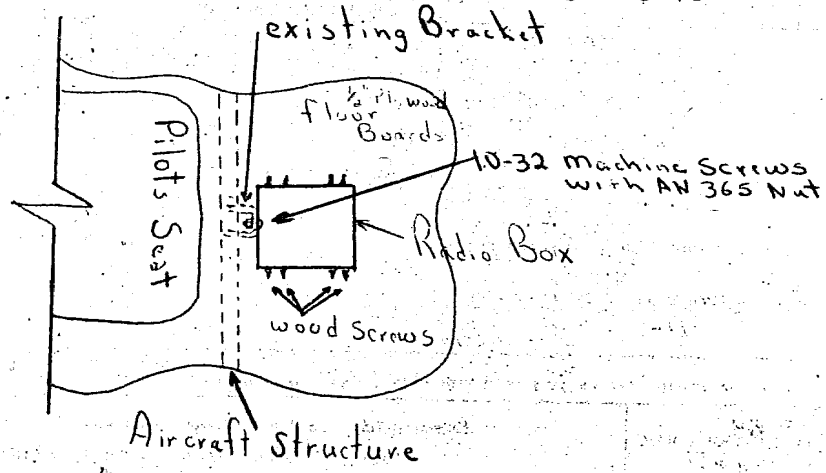
NOTICE

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

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

1. Installed Narco VTR-2A radio in accordance with AC 43.13-2, Chapter 2 and the drawing below. Mount checked for G loading and power supply is properly protected.





☐ ADDITIONAL SHEETS ARE ATTACHED

U.S. GOVERNMENT PRINTING OFFICE : 1968 OF—781-7

FAA AIRCRAFT REGISTRY
CAMERA NO. 5 DATE: 1-4-85

MAKE Stinson MODEL V-77 REGISTRATION NO. N4608N

AIRCRAFT OPERATING LIMITATIONS WITH DOOR REMOVED

This aircraft may be flown with not more than one cabin door, removed for the purpose of sport parachuting, provided the aircraft is operated in accordance with the applicable Federal Aviation Regulations and the following limitations:

1. Maximum speed not to exceed any of the following:

   The approved maneuvering speed
   70 percent maximum level
   70 percent maximum structural cruising speed
2. Acrobatic maneuvers are not permitted.
3. Maximum yaw angle 10°; maximum bank angle 15°.
4. An FAA (CAA) approved safety belt installation must be provided and worn by each occupant.
5. All occupants must wear parachutes when conducting intentional parachute jumping and sky diving operations.
6. Smoking not permitted with door removed.
7. When operations other than intentional parachute jumping and sky diving are conducted, a suitable guardrail or equivalent safety device must be provided for the doorway.
8. All loose articles must be tied down or stowed.
9. No baggage may be carried.
10. Parachutist's static lines must be kept free of pilot's controls and control surfaces.
11. Operations limited to VFR conditions.
12. Cabin door hold-open clips installed on wing brace struts and/or under surface of wing must be removed prior to conducting parachute jumping or sky diving operations.
13. When intentional parachute jumping, sky diving, or other specified operations are being conducted, the pilot at the controls must hold at least a private pilot certificate.
14. This aircraft shall not be operated in solo flight by the holder of a student pilot certificate with a door removed.
15. Operation of this aircraft for any other purpose than for which it is certificated, with a door removed, is prohibited.
16. The following placard must be placed on the instrument panel in full view of the pilot:

    For flight with door removed, see
    aircraft operation limitations with door removed.
17. A copy of these limitations must be carried in the aircraft when flight operations are conducted with the door removed.
18. These operating limitations are a part of the airworthiness certificate.

Date 12 April 1971

FAA Inspector Robert D. Glascock
ROBERT D. GLASCOCK

GADO No. EH-GADO-4

FAA AIRCRAFT REGISTRY
CAMERA NO. 5 DATE: 1-4-85

April 5, 1971

I request dash off operating limitations for Stinson V-77 N 4608N S/N 77-197 for the purpose of sport parachute jumping aircraft is Registered to

Ralph H Henning
Robert J. Odegaard
Box 542
Kindred N.D.
58051

FAA AIRCRAFT REGISTRY
CAMERA NO. 5 DATE: 1-4-85

FAA AIRCRAFT REGISTRY
CAMERA NO. 5 DATE: 1-4-85

FEDERAL AVIATION AGENCY

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

Form Approved
Budget Bureau No. 04-R060.1

FOR FAA USE ONLY

OFFICE IDENTIFICATION
RM-GADO-4

INSTRUCTIONS: Print or type all entries. See FAR 43.9, FAR 43 Appendix B, and AC 43.9-1 (or subsequent revision thereof) for instructions and disposition of this form.

1. AIRCRAFT	MAKE: Stinson	MODEL: V-77
	SERIAL NO.: 77-197	NATIONALITY AND REGISTRATION MARK: N4608N
2. OWNER	NAME (As shown on registration certificate): Henning, Ralph H. Odegaard, Robert J.	ADDRESS (As shown on registration certificate): P.O. Box 542 Kindred, N.D.

3. FOR FAA USE ONLY

The alteration identified herein complies with applicable airworthiness requirements and is approved only for the above described aircraft subject to conformity inspection by a person authorized in FAR 43.5.

4-16-71 Robert H. Olszewski
Date FAA GADO 3-340

4. UNIT IDENTIFICATION / 5. TYPE

UNIT	MAKE	MODEL	SERIAL NO.	REPAIR	ALTERATION
AIRFRAME	(As described in item 1 above)				X
NERPLANT					
PROPELLER					
APPLIANCE	TYPE / MANUFACTURER				

APR 1971 FLIGHT STANDARDS DISTRICT OFFICE FAA Fargo, N. D.

6. CONFORMITY STATEMENT

A. AGENCY'S NAME AND ADDRESS	B. KIND OF AGENCY	C. CERTIFICATE NO.
Robert J. Odegaard Hickson, N.D.	■ U.S. CERTIFICATED MECHANIC FOREIGN CERTIFICATED MECHANIC CERTIFICATED REPAIR STATION MANUFACTURER	A&P 1633071

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
April 15, 1971	Robert J. Odegaard

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 Agency and is ☒ APPROVED ☐ REJECTED

	FAA FLT. STANDARDS INSPECTOR		MANUFACTURER	X	INSPECTION AUTHORIZATION	OTHER (Specify)	
	FAA DESIGNEE		REPAIR STATION		CANADIAN DEPARTMENT OF TRANSPORT INSPECTOR OF AIRCRAFT		

DATE OF APPROVAL OR REJECTION	CERTIFICATE OR DESIGNATION NO.	SIGNATURE OF AUTHORIZED INDIVIDUAL
April 16 1971	1633071 A&P	Robert J. Odegaard

FAA Form 337 (1-65) OBSOLETE PREVIOUS EDITION 0052-025-8000 (8320)

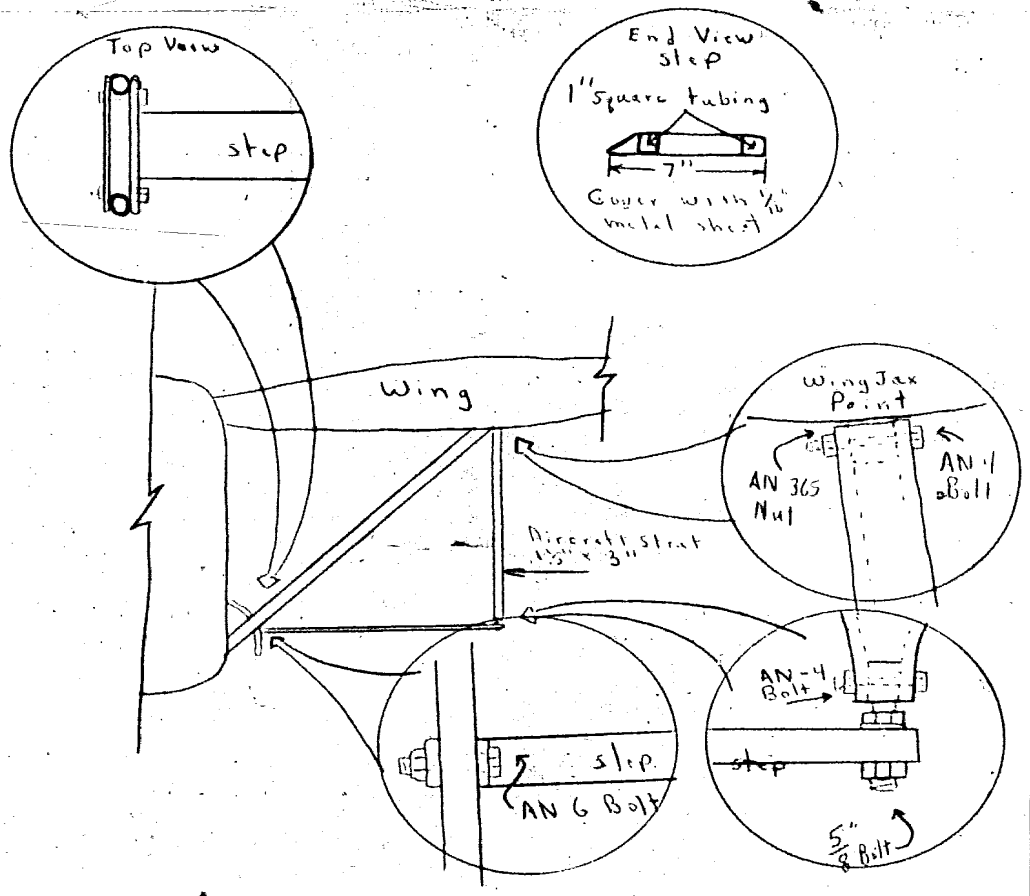
FAA AIRCRAFT REGISTRY
CAMERA NO. 5 DATE: 1-4-85

NOTICE

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

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

1. Installed step in accordance with the drawing below. he step is fabricated from mild steel and AN hardwar: is used. For weight change is A/C weight and balance report.



☐ ADDITIONAL SHEETS ARE ATTACHED

U.S. GOVERNMENT PRINTING OFFICE 1985 OF—781-7

FAA AIRCRAFT REGISTRY
CAMERA NO. 5 DATE: 1-4-85

1161-0524 37 Nov 25 '66

FEDERAL AVIATION AGENCY

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

Form Approved
Budget Bureau No. 04-R060.1

FOR FAA USE ONLY

OFFICE IDENTIFICATION
CE-GADO-4 PARS

INSTRUCTIONS: Print or type all entries. See FAR 43.9, FAR 43 Appendix B, and AC 43.9-1 (or subsequent revision thereof) for instructions and disposition of this form.

1. AIRCRAFT	MAKE: Stinson	MODEL: V77
	SERIAL NO.: 77-197	NATIONALITY AND REGISTRATION MARK: N4608N
2. OWNER	NAME (As shown on registration certificate): Sheldon Sky-Hi Divers	ADDRESS (As shown on registration certificate): Sheldon, Iowa 51201

3. FOR FAA USE ONLY

Verified by Operator #43

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				

RECEIVED NOV 14 1966 F. A. A. CE-GADO-4 DES MOINES, IA.

6. CONFORMITY STATEMENT

A. AGENCY'S NAME AND ADDRESS	B. KIND OF AGENCY	C. CERTIFICATE NO.
Merlin L. Bock Hiway 33 North Sheldon, Iowa	XX U.S. CERTIFICATED MECHANIC FOREIGN CERTIFICATED MECHANIC CERTIFICATED REPAIR STATION MANUFACTURER	A&P 1401465

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: November 11, 1966

SIGNATURE OF AUTHORIZED INDIVIDUAL: Merlin L Bock

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 Agency and is [x] APPROVED [ ] REJECTED

BY						
		FAA FLT. STANDARDS INSPECTOR		MANUFACTURER	XX	INSPECTION AUTHORIZATION
		FAA DESIGNEE		REPAIR STATION		CANADIAN DEPARTMENT OF TRANSPORT INSPECTOR OF AIRCRAFT

OTHER (Specify)

DATE OF APPROVAL OR REJECTION: November 11, 66

CERTIFICATE OR DESIGNATION NO.: A&P 1401465

SIGNATURE OF AUTHORIZED INDIVIDUAL: Merlin L Bock

FAA Form 337 (1-65) OBSOLETE PREVIOUS EDITION 0052-025-8000 (8320)

FAA AIRCRAFT REGISTRY
CAMERA NO. 5 DATE: 1-4-85

NOTICE

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

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

Aircraft was completely recovered with Grade "A" fabric and butrayte dope using more than four coats clear, more than four coats silver, and sufficient color to finish surface.

Fabric attachment with P-Kscrews, which was done by drawing number 77-1, dated 8-16-65, by Mr. William Roberts, 1917 Whittier Lane, Roselle, Illinois, 60172. Copy enclosed of drawing.

All work was accomplished in accordance with Cam 18-30-3

☐ ADDITIONAL SHEETS ARE ATTACHED

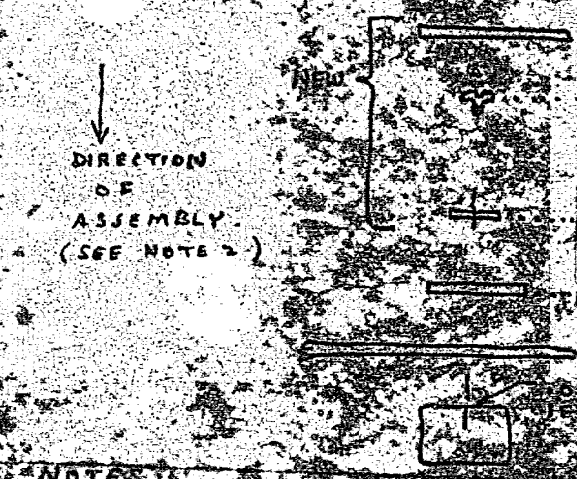
FAA AC 65-4091

FAA AIRCRAFT REGISTRY
CAMERA NO. 5 DATE: 1-4-85

WM ROBERTS 1917 WHITTIER LANE
ROSELLE, ILL. 60172

DRAWING NO 17261
DATED 8/16/65

STINSON MODEL 10-77 AIRPLANE
REPLACEMENT WING RIB STITCHES WITH P-K SCREWS



2" PINKED TAPE, DOPED IN PLACE

P-K #NO.4 X 3/8 LONG TYPE 2 ROUND OR STOVE HEAD SCREW (USE NO.6 FOR MAK-O SIZE)

AN 960-4 OR EQUIV. WASHER

1" REINFORCING TAPE (NEW OR USED)

WING FABRIC (NEW OR USED)

OPT. 1/8 DIA HOLE ON ℄ FOR OVERSIZED MARGION 1/8 DIA. FOR WING RIB 2330, 2303 (OPTS.)

NOTES:

* PANKER - KALON CORP. 1000 VARICK ST. NEW YORK, N.Y.

1) USE DRILL STOP SO BOTTOM OF INSIDE OF RIB CANNOT BE DAMAGED.

2) UNSPECIFIED DETAILS (CHORDWISE SPACING, ETC) PER C.A.M. 18.

3) IF OTHER CHANGES ARE INCORPORATED CONCURRENTLY WITH THE ONE SHOWN ABOVE, RELATIONSHIPS BETWEEN ALL CHANGES MUST BE MONITORED. REF FAR 43.19 (b) OR SUBPART E OF FAR 121 AS APPROPRIATE.

FAA AIRCRAFT REGISTRY
CAMERA NO. 5 DATE: 1-4-85

FAA AIRCRAFT REGISTRY
CAMERA NO. 5 DATE: 1-4-85

MAKE Stinson MODEL V-77 Serial Numb 77-197
REGISTRATION NO. 4608N

1157 1003

AIRCRAFT OPERATING LIMITATIONS WITH DOOR REMOVED

This aircraft may be flown with not more than one cabin door, removed for the purpose of sport parachuting, provided the aircraft is operated in accordance with the applicable Federal Aviation Regulations and the following limitations:

1. Maximum speed not to exceed any of the following:

   The approved maneuvering speed
   70 percent maximum level flight speed
   70 percent maximum structural cruising speed

2. Acrobatic maneuvers are not permitted.
3. Maximum yaw angle 10°; maximum bank angle 15°.
4. An FAA (CAA) approved safety belt installation must be provided and worn by each occupant.
5. All occupants must wear parachutes when conducting intentional parachute jumping and sky diving operations.
6. Smoking not permitted with door removed.
7. When operations other than intentional parachute jumping and sky diving are conducted, a suitable guardrail or equivalent safety device must be provided for the doorway.
8. All loose articles must be tied down or stowed.
9. No baggage may be carried.
10. Parachutist's static lines must be kept free of pilot's controls and control surfaces.
11. Operations limited to VFR conditions.
12. Cabin door hold-open clips installed on wing brace struts and/or under surface of wing must be removed prior to conducting parachute jumping or sky diving operations.
13. When intentional parachute jumping, sky diving, or other specified operations are being conducted, the pilot at the controls must hold at least a private pilot certificate.
14. This aircraft shall not be operated in solo flight by the holder of a student pilot certificate with a door removed.
15. Operation of this aircraft for any other purpose than for which it is certificated, with a door removed, is prohibited.
16. The following placard must be placed on the instrument panel in full view of the pilot:

    For flight with door removed, see
    aircraft operating limitations with door removed.

17. A copy of these limitations must be carried in the aircraft when flight operations are conducted with the door removed.
18. These operating limitations are a part of the airworthiness certificate.

Date October 26, 1966

FAA Inspector ORIGINAL SIGNED BY Harold W. Phillips

GADO No. 4, Des Moines, Iowa

October 19,1966

Federal Aviation Agency
State House
Des Moines, Iowa 50300

Att: Flight Dept.

Dear Sir:

The Sheldon Sky-Hi Divers, a local parachute club, has purchased Stinson V-77 serial number 77-197 identification number N4608N. We would like to please request the permit to operate the aircraft with the door removed, as this aircraft will be used for sport parachuteing.

Thank you.

Yours truly,

Leonard J. Postma

Sheldon Sky-Hi Divers
Sheldon, Iowa 51201

Leonard J. Postma President

sent
10-26-66

FAA AIRCRAFT REGISTRY
CAMERA NO. 5 DATE: 1-4-85

MICRO

FAA AIRCRAFT REGISTRY
CAMERA NO. 5 DATE: 1-4-85

15 0

JUN 1 0 1959

U. S. DEPARTMENT OF COMMERCE
CIVIL AERONAUTICS ADMINISTRATION

Form approved.
Budget Bureau No. 41-R052.4.

MAJOR REPAIR AND ALTERATION FORM (AIRFRAME, POWERPLANT, PROPELLER OR APPLIANCE)

1. AIRCRAFT	MAKE	MODEL	SERIAL NO.	NATIONALITY AND REGISTRATION MARK
	Stinson	V - 77	77-197	N 4608 N

2. OWNER	NAME (First, middle, last)	ADDRESS (Street and number, city, zone and State)
	William H. Dizney	2500 E. Boulder Colorado Springs, Colorado

3. COMPLETE ONLY FOR UNIT REPAIRED AND/OR ALTERED. DESCRIBE WORK ACCOMPLISHED ON REVERSE IN ACCORDANCE WITH CIVIL AERONAUTICS MANUAL 18.

UNIT	MAKE	MODEL	SERIAL NO.	NATURE OF WORK (Check) MAJOR REPAIR	MAJOR ALTERATION
a. AIRFRAME	(As described in Item 1 above)			XXXX	
b. POWERPLANT					
c. PROPELLER					
d. APPLIANCE	TYPE AND MANUFACTURER				

4. AIRCRAFT WEIGHT AND BALANCE DATA
*AFTER the repairs and/or alterations described below were made.

This item must be completed by repair or alteration agency. However, in the case of a spare component, it will not be completed until such component is installed in an aircraft. At this time, it will be completed by the installing agency, if applicable.

CATEGORY	EMPTY WEIGHT (Pounds)*	EMPTY CENTER OF GRAVITY (Inches from datum)*	USEFUL LOAD (Pounds)*
Standard	2598	84.5	1402

5. CONFORMITY STATEMENT (Complete and check)

a. AGENCY'S NAME AND ADDRESS	b. KIND OF AGENCY	c. CERTIFICATE NO.
Donald W. Brown 607 North Foote Colorado Springs Colorado	☒ U. S. Certificated Mechanic. ☐ Foreign Certificated Mechanic. ☐ Certificated Repair Station. ☐ Manufacturer. ☐ (Check if repair or alteration was made under delegation option procedures.)	A&P 678655

d. I certify that the repair and/or alteration made to the unit(s) identified under item 3 above and described on the reverse or attachments hereto have been made in accordance with the requirements of Part 18 of the U. S. Civil Air Regulations and that the information furnished herein is true and correct to the best of my knowledge.

May 4th 1959
(Date repair and/or alteration completed)

Donald W Brown
(Signature of authorized individual)

6. APPROVAL FOR RETURN TO SERVICE (Check and complete appropriate items)

Pursuant to the authority specified below the unit identified in item 3 was inspected in the manner prescribed by the Administrator and is

☒ APPROVED ☐ REJECTED } BY { ☐ CAA Designee ☐ CAA Aviation Safety Agent ☐ Manufacturer ☐ Repair Station ☐ Canadian Department of Transport Inspector of Aircraft ☒ Other (Specify) Inspection Authorization

6/5/59
(Date of approval or rejection)

Donald J Sanders A&P 1201542
(Signature of authorized individual; title or identification number)

7. TO BE COMPLETED ONLY BY CAA PERSONNEL

a. ☐ Forwarded for engineering comment ☐ See attached memorandum

b. ☒ Accepted 6-11-59 (Date) ☐ Reinspected _____ (Date) ☐ Spot Checked _____ (Date)

Reg. 4 LA
ASDO 5
(CAA designation number)

L. M. Gerwy
(Signature of Aviation Safety Agent)

16—54010-4

Form ACA-337 (4-52)

MC

FAA AIRCRAFT REGISTRY
CAMERA NO. 5 DATE: 1-4-85

INSTRUCTIONS

This form must be completed in duplicate each time a major repair and/or alteration is made of an aircraft, airframe, powerplant, propeller or appliance. After the repair and/or alteration has been inspected and item 6 completed, the original copy of this form will be made available to the aircraft owner for retention as part of the aircraft records. The duplicate copy is retained by the CAA for administrative purposes.

See CAM 18 for detailed instructions concerning the information to be furnished with this form and instructions concerning its preparation.

8. DESCRIPTION OF WORK ACCOMPLISHED.*

Complete vertical fin replaced with a serviceable vertical fin. Vertical fin and rudder, elevators, horizontal stablizer recovered with Grade A Fabric. Used nitrate dope 7 coats of clear, 5 coats aluminum pigmented and 3 coats color pigment.

All work done in accordance with practices as outlined in CAM 18.

*If additional space is needed attach additional sheets bearing aircraft nationality and registration mark and date work completed.

Check block if additional sheets are attached. ☐

U. S. GOVERNMENT PRINTING OFFICE 16—54010-4

17

Guymon AIR PARK

ERNIE HAVENGA

Sales and Service

Box 602, Guymon, Oklahoma

Phone 908-J

GOLF — CAFE

WEIGHT & BALANCE REPORT: As weighed August 26, 1958

Stinson V-77 Serial #77-197 N 4608N

Datum--42 3/8" Fwd. of Firewall.
W------Weight of aircraft.
D------Distance from datum to main wheel weighing point.
L------Distance from main wheels to tail wheel.
R------Weight at tail wheel.

Right wheel	1213#	
Left wheel	1245#	AIRCRAFT WEIGHED WITH OIL 3 Gal.
Tail wheel	162#	
Total	2620#	Empty weight

$CG = D + \left(\frac{R \times L}{W}\right)$ $CG = 70 + \left(\frac{162 \times 228}{2620}\right) = 70 + \left(\frac{36936}{2620}\right)$

CG = 70 + 14.1 , CG = 84.1" ECG as weighed

COMPUTATION TO DETERMINE EMPTY WEIGHT & EW CG when weighed with oil.

	Weight	Arm	Moment
Aircraft as weighed	2620	84.1	220342
Less oil	-22	37	814
Total	2598		219528

$EW\ CG = \frac{219528}{2598} = 84.5"$ Aft. of datum

CG Range--84.4 to 92.1

E.F. Havenga

E.F.Havenga A&E 1163415

EQUIPMENT LIST

August 26, 1958

ITEM	WEIGHT
1. Ham. Std. 2B20 Propeller with 6135A-9 blades	106 lbs. (#1)
101. Carb. heater 102. Carb. air filter 103. Starter (Eclipse type 397 Model 15) 105. Vacuum Pump (Eclipse type 692 Model 2)	20 lbs. (#36)
201 7.50 x 10 wheels (Goodrich) 8.50 x 10 6 ply tires Expander tube Hyd. brakes (Goodrich) 202. 10" tail wheel (Goodrich) 10" S.C. 4-ply tire	5 lbs. (#298)
301. Generaton (Eclipse type 307 Model 11) 302. Battery & box (Reading R-33) 303. Landing light (Grimes) 304. Generator control box (type 1035 Model 2) 305. Position lights (Grimes)	22 lbs. (#35) 4 lbs. (#67)
401. Pilots seat (2) 403. Heating system	24 lbs. (#84)
Rear seat (3 passenger)	

FAA AIRCRAFT REGISTRY
CAMERA NO. 5 DATE: 1-4-85

16

U. S. DEPARTMENT OF COMMERCE
CIVIL AERONAUTICS ADMINISTRATION

Form approved.
Budget Bureau No. 41-R052.4.

MAJOR REPAIR AND ALTERATION FORM (AIRFRAME, POWERPLANT, PROPELLER OR APPLIANCE)

1. AIRCRAFT	MAKE	MODEL	SERIAL NO.	NATIONALITY AND REGISTRATION MARK
	Stinson	V-77	77-197	N 4608N

2. OWNER	NAME (First, middle, last)	ADDRESS (Street and number, city, zone and State)
	William H. Dizney	2500 E. Boulder, Colorado Springs, Colo.

3. COMPLETE ONLY FOR UNIT REPAIRED AND/OR ALTERED. DESCRIBE WORK ACCOMPLISHED ON REVERSE IN ACCORDANCE WITH CIVIL AERONAUTICS MANUAL 18.

UNIT	MAKE	MODEL	SERIAL NO.	NATURE OF WORK (Check) MAJOR REPAIR	MAJOR ALTERATION
a. AIRFRAME	(As described in Item 1 above)			XXX	
b. POWERPLANT					
c. PROPELLER					
d. APPLIANCE	TYPE AND MANUFACTURER				

4. AIRCRAFT WEIGHT AND BALANCE DATA *AFTER the repairs and/or alterations described below were made.

This item must be completed by repair or alteration agency. However, in the case of a spare component, it will not be completed until such component is installed in an aircraft. At this time, it will be completed by the installing agency, if applicable.

CATEGORY	EMPTY WEIGHT (Pounds)*	EMPTY CENTER OF GRAVITY (Inches from datum)*	USEFUL LOAD (Pounds)*
Standard	2598	84.5	1402

5. CONFORMITY STATEMENT (Complete and check)

a. AGENCY'S NAME AND ADDRESS	b. KIND OF AGENCY	c. CERTIFICATE NO.
E.F.Havenga Box 602 Guymon, Oklahoma	☒ U. S. Certificated Mechanic. ☐ Foreign Certificated Mechanic. ☐ Certificated Repair Station. ☐ Manufacturer. ☐ (Check if repair or alteration was made under delegation option procedures.)	A&E 1163415

d. I certify that the repair and/or alteration made to the unit(s) identified under item 3 above and described on the reverse or attachments hereto have been made in accordance with the requirements of Part 18 of the U. S. Civil Air Regulations and that the information furnished herein is true and correct to the best of my knowledge.

Jan. 18, 1957 (Date repair and/or alteration completed)

E. F. Havenga (Signature of authorized individual)

6. APPROVAL FOR RETURN TO SERVICE (Check and complete appropriate items)

Pursuant to the authority specified below the unit identified in item 3 was inspected in the manner prescribed by the Administrator and is

☒ APPROVED ☐ REJECTED } BY { ☐ CAA Designee ☐ Manufacturer ☐ Canadian Department of Transport Inspector of Aircraft ☒ CAA Aviation Safety Agent ☐ Repair Station ☐ Other (Specify)

8-27-58 (Date of approval or rejection)

Reg. 2 FW
ASDO 1
(Signature of authorized individual; title or identification number)

7. TO BE COMPLETED ONLY BY CAA PERSONNEL

a. ☐ Forwarded for engineering comment ☐ See attached memorandum

b. ☒ Accepted _____ (Date) ☐ Reinspected _____ (Date) ☐ Spot Checked _____ (Date)

10-3-8

(CAA designation number) (Signature Aviation Safety Agent)

16-54010-4

Form ACA-337 (4-52)

FAA AIRCRAFT REGISTRY
CAMERA NO. 5 DATE: 1-4-85

INSTRUCTIONS

This form must be completed in duplicate each time a major repair and/or alteration is made of an aircraft, airframe, powerplant, propeller or appliance. After the repair and/or alteration has been inspected and item 6 completed, the original copy of this form will be made available to the aircraft owner for retention as part of the aircraft records. The duplicate copy is retained by the CAA for administrative purposes.

See CAM 18 for detailed instructions concerning the information to be furnished with this form and instructions concerning its preparation.

8. DESCRIPTION OF WORK ACCOMPLISHED.*

Complete Aircraft recovered using Grade A fabric. Used nitrate dope, 7 coats clear, 5 coats aluminum pigmented, and 3 coats pigmented.

All structure thoroughly inspected prior to covering. Steel structure cleaned and zinc chromated where necessary

All work done in accordance with practices as outlined in CAM 18.

*If additional space is needed attach additional sheets bearing aircraft nationality and registration mark and date work completed.

Check block if additional sheets are attached. ☐

U. S. GOVERNMENT PRINTING OFFICE 16—54010—4

FAA AIRCRAFT REGISTRY
CAMERA NO. 5 DATE: 1-4-85

APR 12 1954

U. S. DEPARTMENT OF COMMERCE
CIVIL AERONAUTICS ADMINISTRATION

APPLICATION FOR AIRWORTHINESS CERTIFICATE AND/OR ANNUAL INSPECTION OF AN AIRCRAFT

Form Approved. Budget Bureau No. 41-R041.5.

INSTRUCTIONS
Please print or type. Submit this form to the Civil Aeronautics Administration Aviation Safety Field Representative.

1. TYPE OF APPLICATION (*Check which*)

a. ☐ ORIGINAL ISSUANCE OF CERTIFICATE
b. ☒ ANNUAL INSPECTION FOR RENEWAL OF CERTIFICATE
c. ☐ AMENDMENT OR MODIFICATION OF CURRENT CERTIFICATE
d. ☐ RECERTIFICATION UNDER THE PROVISIONS OF CAR 8
e. ☐ MULTIPLE CERTIFICATE UNDER THE PROVISIONS OF CAR 8
f. ☐

2. AIRWORTHINESS CLASSIFICATION (*Check appropriate item(s)*)
It is requested that the Certificate of Airworthiness be issued to permit operation of the aircraft in the following airworthiness classification(s):

a. ☒ STANDARD (NORMAL, UTILITY, ACROBATIC, TRANSPORT CATEGORIES)
b. ☐ LIMITED (SEE CAR 9)
c. ☐ RESTRICTED (SEE CAR 8)
(*Check the restricted special purpose operation(s) to be conducted*)
☐ AGRICULTURAL AND PEST CONTROL
☐ AERIAL ADVERTISING
☐ AERIAL SURVEYING
☐ GLIDER TOWING
☐ PATROLLING
☐ FOREST AND WILDLIFE CONSERVATION
☐ WEATHER CONTROL
☐ OTHER
d. ☐ EXPERIMENTAL
(*Check the type of experimental operation(s) to be conducted*)
☐ RESEARCH AND DEVELOPMENT
☐ AMATEUR-BUILT
☐ DEMONSTRATION
☐ RACING
☐ EXHIBITION
☐ OTHER

3. AIRCRAFT IDENTIFICATION (*Complete all items*)

a. AIRCRAFT MAKE	b. AIRCRAFT MODEL	c. AIRCRAFT SERIAL NO.
Stinson	~~V-77~~ (AT-19)	77-197

d. ENGINE MAKE	e. ENGINE MODEL
Lyooming - R-680-13	R-680-13

4. AIRCRAFT REGISTRATION INFORMATION (*Complete all items*)

a. REGISTERED OWNER'S FULL NAME	b. PERMANENT MAILING ADDRESS	c. AIRCRAFT NATIONALITY AND REGISTRATION MARK
Edward R. Grimm Martin W. Smith	C.A.P. Liaison Off. Lowry AFB, Denver Colorado	N- 4608N

now 4-28-4 certificate (R680-F3B)

5. AIRCRAFT OWNER'S CERTIFICATION (*Check and complete appropriate item*)
I hereby certify that I am the registered owner (or his agent) of the aircraft identified in Item 3 above which is registered* with the Civil Aeronautics Administration as required by the Regulations of the Administrator, Part 501 or 502 and when operated displays the following evidence of registration:

XX a. ☒ CERTIFICATE OF REGISTRATION, FORM ACA-500 (PART A). DATE OF ISSUE August 4, 1953
b. ☐ APPLICATION FOR REGISTRATION, FORM ACA-500 (PART B). FORM ACA-500, PART A, FORWARDED TO CAA AIRCRAFT RECORDS BRANCH, W-300 ON _____ (DATE)
c. ☐ DEALER'S REGISTRATION CERTIFICATE, FORM ACA-1707, DATED _____

*In order to be eligible for registration an aircraft must be owned by a citizen of the United States, as defined by Section 1 (13) of the Civil Aeronautics Act of 1938, as amended.

ATTACHMENTS (*Check which*)
☒ ACA-319
☐ ACA-337
☐ ACA-317
☐ WEIGHT AND BALANCE REPORT
☐ DATA, DRAWINGS, ETC.
☐ UNAPPROVED DEVIATION DATA

Martin W. Smith
(SIGNATURE OF REGISTERED OWNER OR AUTHORIZED AGENT)
10 APR. 54 (DATE) CO-OWNER (TITLE)

10—60837-2

Form ACA-305 (11-51)

FAA AIRCRAFT REGISTRY
CAMERA NO. 5 DATE: 1-4-85

U. S. DEPARTMENT OF COMMERCE
CIVIL AERONAUTICS ADMINISTRATION

AIRCRAFT INSPECTION REPORT

(To be completed by a CAA representative or approved repair station)

The aircraft described in Item 3 on the reverse of this form has been inspected and found to conform to the following:
(Check and complete applicable items)

1. AIRCRAFT AND ENGINE CERTIFICATION BASIS

a. [X] AIRCRAFT SPECIFICATION NO. A-777 THROUGH SHEET REVISION NO. 1
b. [ ] AIRCRAFT LISTING PAGE NO. _____
c. [X] AIRWORTHINESS DIRECTIVE SUMMARY 1953 (YEAR) THROUGH CARD NO. 54-7
d. [ ] CIVIL AIR REGULATION PART 8 (MODIFIED TYPE CERTIFICATE)

2. AIRCRAFT AND ENGINE OPERATING RECORDS

a. [ ] AIRCRAFT NEW—NO PREVIOUS OPERATION OR MAINTENANCE HISTORY
b. [X] COMPLIANCE WITH APPLICABLE AIRWORTHINESS DIRECTIVES RECORDED
c. [X] AIRCRAFT RECORDS INDICATE THE AIRFRAME HAS BEEN OPERATED A TOTAL OF 613140 HOURS
d. [X] ENGINE RECORDS INDICATE THE FOLLOWING OPERATION:

SERIAL NO. 43-93301 TOTAL HOURS 550140
SERIAL NO. _____ TOTAL HOURS _____
SERIAL NO. _____ TOTAL HOURS _____
SERIAL NO. _____ TOTAL HOURS _____

3. PREVIOUS INSPECTION RECORD (INSPECTION RECORDED ON FORM ACA-319)

a. LAST AIRWORTHINESS INSPECTION CONDUCTED 4/10/54 (DATE)
[ ] BY AIRCRAFT MANUFACTURER
[ ] BY APPROVED REPAIR STATION, CERTIFICATE NO. Q&C 1049948
[X] BY MECHANIC, CERTIFICATE NO. _____
b. [X] PERIODIC AIRCRAFT INSPECTION REPORT, FORM ACA-319, WAS RETURNED TO OWNER

RECEIVED
APR 23 12 35 PM '54
ADMIN. & RECORDS BRANCH
W-300

4. AIRWORTHINESS DOCUMENTS ISSUED OR REVIEWED

a. [ ] OPERATION LIMITATIONS, FORM ACA-309, WAS ISSUED (COPY ATTACHED)
b. [X] CURRENT OPERATION LIMITATIONS, FORM ACA-309, IS AVAILABLE IN AIRCRAFT
c. [ ] CURRENT APPROVED AIRPLANE FLIGHT MANUAL IS AVAILABLE IN AIRCRAFT
d. [X] CURRENT WEIGHT AND BALANCE INFORMATION IS AVAILABLE IN AIRCRAFT
e. [X] THIS INSPECTION HAS BEEN RECORDED IN THE AIRCRAFT RECORDS
f. [X] CERTIFICATE OF AIRWORTHINESS, FORM ACA-1362, ISSUED TO EXPIRE April 16-1955 (DATE)
g. [X] PREVIOUS FORM ACA-1362 WAS ISSUED TO EXPIRE March 24, 1955 (DATE)
BY Jarvis R. Norell (NAME OF ISSUING REPRESENTATIVE) 465 (DESIGNATION NO.)

5. CAA APPROVED REPAIR STATION CERTIFICATION

The aircraft described on the reverse has been inspected under the authority accorded certificated repair station No. _____ by CAR 52 and was found to be:

[ ] AIRWORTHY
[ ] UNAIRWORTHY

(REPAIR STATION AUTHORIZED SIGNATURE) _____ (DATE) _____

6. CAA REPRESENTATIVE CERTIFICATION

I HAVE INSPECTED THE AIRCRAFT DESCRIBED ON THE REVERSE AND FOUND IT [X] AIRWORTHY [ ] UNAIRWORTHY (Check appropriate item)

DESIGNEE'S SIGNATURE	DESIGNATION NO.	DATE	
Lesoll Fritzinger	5231	4/10/54	
AVIATION SAFETY AGENT'S SIGNATURE	CAA DESIGNATION NO.	DATE	[X] ACCEPTED
James J. Ennis	LA257-5	4-14-54	[ ] REINSPECTED
			[ ] SPOT CHECKED

[ ] ATTACHMENT

FAA AIRCRAFT REGISTRY
CAMERA NO. 5 DATE: 1-4-85

U. S. DEPARTMENT OF COMMERCE
CIVIL AERONAUTICS ADMINISTRATION

APPLICATION FOR AIRWORTHINESS CERTIFICATE AND/OR ANNUAL INSPECTION OF AN AIRCRAFT

Form Approved. Budget Bureau No. 41-R041.5.

INSTRUCTIONS
Please print or type. Submit this form to the Civil Aeronautics Administration Aviation Safety Field Representative.

1. TYPE OF APPLICATION (*Check which*)

a. ☐ ORIGINAL ISSUANCE OF CERTIFICATE
b. ☒ ANNUAL INSPECTION FOR RENEWAL OF CERTIFICATE
c. ☐ AMENDMENT OR MODIFICATION OF CURRENT CERTIFICATE
d. ☐ RECERTIFICATION UNDER THE PROVISIONS OF CAR 8
e. ☐ MULTIPLE CERTIFICATE UNDER THE PROVISIONS OF CAR 8
f. ☐

2. AIRWORTHINESS CLASSIFICATION (*Check appropriate item(s)*)
It is requested that the Certificate of Airworthiness be issued to permit operation of the aircraft in the following airworthiness classification(s):

a. ☒ STANDARD (NORMAL, UTILITY, ACROBATIC, TRANSPORT CATEGORIES)
b. ☐ LIMITED (SEE CAR 9)
c. ☐ RESTRICTED (SEE CAR 8)
(*Check the restricted special purpose operation(s) to be conducted*)
☐ AGRICULTURAL AND PEST CONTROL
☐ AERIAL ADVERTISING
☐ AERIAL SURVEYING
☐ GLIDER TOWING
☐ PATROLLING
☐ FOREST AND WILDLIFE CONSERVATION
☐ WEATHER CONTROL
☐ OTHER
d. ☐ EXPERIMENTAL
(*Check the type of experimental operation(s) to be conducted*)
☐ RESEARCH AND DEVELOPMENT
☐ AMATEUR-BUILT
☐ DEMONSTRATION
☐ RACING
☐ EXHIBITION
☐ OTHER

RECEIVED
MAR 27 1953
CAA
...LO, TEXAS

11-83

3. AIRCRAFT IDENTIFICATION (*Complete all items*)

a. AIRCRAFT MAKE	b. AIRCRAFT MODEL	c. AIRCRAFT SERIAL NO.
Stinson	V-77	77-197

d. ENGINE MAKE	e. ENGINE MODEL
Lycoming	R-680E3B

4. AIRCRAFT REGISTRATION INFORMATION (*Complete all items*)

a. REGISTERED OWNER'S FULL NAME	b. PERMANENT MAILING ADDRESS	c. AIRCRAFT NATIONALITY AND REGISTRATION MARK
Earl Ladd, Jr.	Muleshoe, Texas	N-4608N

Ocn 5-5-83

5. AIRCRAFT OWNER'S CERTIFICATION (*Check and complete appropriate item*)

I hereby certify that I am the registered owner (or his agent) of the aircraft identified in Item 3 above which is registered* with the Civil Aeronautics Administration as required by the Regulations of the Administrator, Part 501 or 502 and when operated displays the following evidence of registration:

a. ☒ CERTIFICATE OF REGISTRATION, FORM ACA-500 (PART A). DATE OF ISSUE April 23, 1952
b. ☐ APPLICATION FOR REGISTRATION, FORM ACA-500 (PART B). FORM ACA-500, PART A, FORWARDED TO CAA AIRCRAFT RECORDS BRANCH, W-300 ON _____ (DATE)
c. ☐ DEALER'S REGISTRATION CERTIFICATE, FORM ACA-1707, DATED _____

*In order to be eligible for registration an aircraft must be owned by a citizen of the United States, as defined by Section 1 (13) of the Civil Aeronautics Act of 1938, as amended.

ATTACHMENTS (*Check which*)
☒ ACA-319
☐ ACA-337
☐ ACA-317
☐ WEIGHT AND BALANCE REPORT
☐ DATA, DRAWINGS, ETC.
☐ UNAPPROVED DEVIATION DATA

James H. Jennings
(SIGNATURE OF REGISTERED OWNER OR AUTHORIZED AGENT)
March 24, 1953 (DATE)
Agent (TITLE)

16—60837-2

Form ACA-305 (11-51)

FAA AIRCRAFT REGISTRY
CAMERA NO. 5 DATE: 1-4-85

U. S. DEPARTMENT OF COMMERCE
CIVIL AERONAUTICS ADMINISTRATION

AIRCRAFT INSPECTION REPORT

(To be completed by a CAA representative or approved repair station)

The aircraft described in Item 3 on the reverse of this form has been inspected and found to conform to the following:
(Check and complete applicable items)

1. AIRCRAFT AND ENGINE CERTIFICATION BASIS
   - a. ☒ AIRCRAFT SPECIFICATION NO. A-774 THROUGH SHEET REVISION NO. ——
   - b. ☐ AIRCRAFT LISTING PAGE NO. _____
   - c. ☒ AIRWORTHINESS DIRECTIVE SUMMARY 1952 (YEAR) THROUGH CARD NO. 53-6
   - d. ☐ CIVIL AIR REGULATION PART 8 (MODIFIED TYPE CERTIFICATE)

2. AIRCRAFT AND ENGINE OPERATING RECORDS
   - a. ☐ AIRCRAFT NEW—NO PREVIOUS OPERATION OR MAINTENANCE HISTORY
   - b. ☒ COMPLIANCE WITH APPLICABLE AIRWORTHINESS DIRECTIVES RECORDED
   - c. ☒ AIRCRAFT RECORDS INDICATE THE AIRFRAME HAS BEEN OPERATED A TOTAL OF 591:30 HOURS
   - d. ☒ ENGINE RECORDS INDICATE THE FOLLOWING OPERATION:
     - SERIAL NO. 41-20414 TOTAL HOURS 789:25
     - SERIAL NO. _____ TOTAL HOURS _____
     - SERIAL NO. _____ TOTAL HOURS _____
     - SERIAL NO. _____ TOTAL HOURS _____

3. PREVIOUS INSPECTION RECORD (INSPECTION RECORDED ON FORM ACA-319)
   - a. LAST AIRWORTHINESS INSPECTION CONDUCTED March 24, 1953 (DATE)
     - ☐ BY AIRCRAFT MANUFACTURER
     - ☐ BY APPROVED REPAIR STATION, CERTIFICATE NO. _____
     - ☒ BY MECHANIC, CERTIFICATE NO. 1169470 & 361195
   - b. ☒ PERIODIC AIRCRAFT INSPECTION REPORT, FORM ACA-319, WAS RETURNED TO OWNER

RECEIVED
APR 7 9 01 AM '53
ADMIN. & RECORDS BRANCH
W-300

4. AIRWORTHINESS DOCUMENTS ISSUED OR REVIEWED
   - a. ☐ OPERATION LIMITATIONS, FORM ACA-309, WAS ISSUED (COPY ATTACHED)
   - b. ☒ CURRENT OPERATION LIMITATIONS, FORM ACA-309, IS AVAILABLE IN AIRCRAFT
   - c. ☐ CURRENT APPROVED AIRPLANE FLIGHT MANUAL IS AVAILABLE IN AIRCRAFT
   - d. ☒ CURRENT WEIGHT AND BALANCE INFORMATION IS AVAILABLE IN AIRCRAFT
   - e. ☒ THIS INSPECTION HAS BEEN RECORDED IN THE AIRCRAFT RECORDS
   - f. ☒ CERTIFICATE OF AIRWORTHINESS, FORM ACA-1362, ISSUED TO EXPIRE March 24, 1954 (DATE)
   - g. ☒ PREVIOUS FORM ACA-1362 WAS ISSUED TO EXPIRE April 29, 1953 (DATE)
     BY Jarvis R. Nowell (NAME OF ISSUING REPRESENTATIVE) 465 (DESIGNATION NO.)

5. CAA APPROVED REPAIR STATION CERTIFICATION

   The aircraft described on the reverse has been inspected under the authority accorded certificated repair station No. _____ by CAR 52 and was found to be:
   - ☐ AIRWORTHY
   - ☐ UNAIRWORTHY

   (REPAIR STATION AUTHORIZED SIGNATURE) _____ (DATE) _____

6. CAA REPRESENTATIVE CERTIFICATION

   I HAVE INSPECTED THE AIRCRAFT DESCRIBED ON THE REVERSE AND FOUND IT ☒ AIRWORTHY ☐ UNAIRWORTHY (Check appropriate item)

DESIGNEE'S SIGNATURE	DESIGNATION NO.	DATE	
Jarvis R. Nowell	465	March 24, 1953	☒ ACCEPTED
AVIATION SAFETY AGENT'S SIGNATURE	CAA DESIGNATION NO.	DATE	☐ REINSPECTED
James C. Hemmon	4-579-3	3-27-53	☐ SPOT CHECKED

☒ ATTACHMENT

FAA AIRCRAFT REGISTRY
CAMERA NO. 5 DATE: 1-4-85

U. S. DEPARTMENT OF COMMERCE
CIVIL AERONAUTICS ADMINISTRATION

APPLICATION FOR AIRWORTHINESS CERTIFICATE AND/OR ANNUAL INSPECTION OF AN AIRCRAFT

Form Approved. Budget Bureau No. 41-R041.5.

INSTRUCTIONS
Please print or type. Submit this form to the Civil Aeronautics Administration Aviation Safety Field Representative.

1. TYPE OF APPLICATION (*Check which*)

a. ☐ ORIGINAL ISSUANCE OF CERTIFICATE
b. ☒ ANNUAL INSPECTION FOR RENEWAL OF CERTIFICATE.
c. ☐ AMENDMENT OR MODIFICATION OF CURRENT CERTIFICATE
d. ☐ RECERTIFICATION UNDER THE PROVISIONS OF CAR 8
e. ☐ MULTIPLE CERTIFICATE UNDER THE PROVISIONS OF CAR 8
f. ☐

11-43

2. AIRWORTHINESS CLASSIFICATION (*Check appropriate item(s)*)
It is requested that the Certificate of Airworthiness be issued to permit operation of the aircraft in the following airworthiness classification(s):

a. ☒ STANDARD (NORMAL, UTILITY, ACROBATIC, TRANSPORT CATEGORIES)
b. ☐ LIMITED (SEE CAR 9)
c. ☐ RESTRICTED (SEE CAR 8)
(*Check the restricted special purpose operation(s) to be conducted*)
☐ AGRICULTURAL AND PEST CONTROL
☐ AERIAL ADVERTISING
☐ AERIAL SURVEYING
☐ GLIDER TOWING
☐ PATROLLING
☐ FOREST AND WILDLIFE CONSERVATION
☐ WEATHER CONTROL
☐ OTHER
d. ☐ EXPERIMENTAL
(*Check the type of experimental operation(s) to be conducted*)
☐ RESEARCH AND DEVELOPMENT
☐ AMATEUR-BUILT
☐ DEMONSTRATION
☐ RACING
☐ EXHIBITION
☐ OTHER

RECEIVED MAY 5 1952 CAA REG IV GENERAL SAFETY BRANCH

3. AIRCRAFT IDENTIFICATION (*Complete all items*)

a. AIRCRAFT MAKE	b. AIRCRAFT MODEL	c. AIRCRAFT SERIAL NO.
Stinson	V-77	77-197

d. ENGINE MAKE	e. ENGINE MODEL
Lycoming	R-680-E3B

8-20-2

4. AIRCRAFT REGISTRATION INFORMATION (*Complete all items*)

a. REGISTERED OWNER'S FULL NAME	b. PERMANENT MAILING ADDRESS	c. AIRCRAFT NATIONALITY AND REGISTRATION MARK
Earl Ladd, Jr.	Muleshoe, Texas	N- 4608N

5. AIRCRAFT OWNER'S CERTIFICATION (*Check and complete appropriate item*)

I hereby certify that I am the registered owner (or his agent) of the aircraft identified in Item 3 above which is registered* with the Civil Aeronautics Administration as required by the Regulations of the Administrator, Part 501 or 502 and when operated displays the following evidence of registration:

a. ☐ CERTIFICATE OF REGISTRATION, FORM ACA-500 (PART A). DATE OF ISSUE _____
b. ☒ APPLICATION FOR REGISTRATION, FORM ACA-500 (PART B). FORM ACA-500, PART A, FORWARDED TO CAA AIRCRAFT RECORDS BRANCH, W-300 ON April 5, 1952 (DATE)
c. ☐ DEALER'S REGISTRATION CERTIFICATE, FORM ACA-1707, DATED _____

*In order to be eligible for registration an aircraft must be owned by a citizen of the United States, as defined by Section 1 (13) of the Civil Aeronautics Act of 1938, as amended.

ATTACHMENTS (*Check which*)

☒ ACA-319
☐ ACA-337
☐ ACA-317
☐ WEIGHT AND BALANCE REPORT
☐ DATA, DRAWINGS, ETC.
☐ UNAPPROVED DEVIATION DATA

Elvie T. Jennings
(SIGNATURE OF REGISTERED OWNER OR AUTHORIZED AGENT)

April 29, 1952 (DATE) Agent (TITLE)

10—60837-2

Form ACA-305 (11-51)

FAA AIRCRAFT REGISTRY
CAMERA NO. 5 DATE: 1-4-85

U. S. DEPARTMENT OF COMMERCE
CIVIL AERONAUTICS ADMINISTRATION

AIRCRAFT INSPECTION REPORT

(To be completed by a CAA representative or approved repair station)

The aircraft described in Item 3 on the reverse of this form has been inspected and found to conform to the following:
(Check and complete applicable items)

1. AIRCRAFT AND ENGINE CERTIFICATION BASIS

a. ☒ AIRCRAFT SPECIFICATION NO. A-774 THROUGH SHEET REVISION NO. ——
b. ☐ AIRCRAFT LISTING PAGE NO. ____
c. ☒ AIRWORTHINESS DIRECTIVE SUMMARY 1951 (YEAR) THROUGH CARD NO. 52-8
d. ☐ CIVIL AIR REGULATION PART 8 (MODIFIED TYPE CERTIFICATE)

2. AIRCRAFT AND ENGINE OPERATING RECORDS

a. ☐ AIRCRAFT NEW—NO PREVIOUS OPERATION OR MAINTENANCE HISTORY
b. ☒ COMPLIANCE WITH APPLICABLE AIRWORTHINESS DIRECTIVES RECORDED
c. ☒ AIRCRAFT RECORDS INDICATE THE AIRFRAME HAS BEEN OPERATED A TOTAL OF 566:20 HOURS
d. ☒ ENGINE RECORDS INDICATE THE FOLLOWING OPERATION:

SERIAL NO. 41-20414 TOTAL HOURS 566:20
SERIAL NO. ____ TOTAL HOURS ____
SERIAL NO. ____ TOTAL HOURS ____
SERIAL NO. ____ TOTAL HOURS ____

3. PREVIOUS INSPECTION RECORD (INSPECTION RECORDED ON FORM ACA-319)

a. LAST AIRWORTHINESS INSPECTION CONDUCTED 4-19-1951 (DATE)
☐ BY AIRCRAFT MANUFACTURER
☐ BY APPROVED REPAIR STATION, CERTIFICATE NO. ____
☒ BY MECHANIC, CERTIFICATE NO. Alyn Pritchett A&E-387255
b. ☒ PERIODIC AIRCRAFT INSPECTION REPORT, FORM ACA-319, WAS RETURNED TO OWNER

4. AIRWORTHINESS DOCUMENTS ISSUED OR REVIEWED

a. ☐ OPERATION LIMITATIONS, FORM ACA-309, WAS ISSUED (COPY ATTACHED)
b. ☒ CURRENT OPERATION LIMITATIONS, FORM ACA-309, IS AVAILABLE IN AIRCRAFT
c. ☐ CURRENT APPROVED AIRPLANE FLIGHT MANUAL IS AVAILABLE IN AIRCRAFT
d. ☒ CURRENT WEIGHT AND BALANCE INFORMATION IS AVAILABLE IN AIRCRAFT
e. ☒ THIS INSPECTION HAS BEEN RECORDED IN THE AIRCRAFT RECORDS
f. ☒ CERTIFICATE OF AIRWORTHINESS, FORM ACA-1362, ISSUED TO EXPIRE April 29, 1953 (DATE)
g. ☒ PREVIOUS FORM ACA-1362 WAS ISSUED TO EXPIRE 4-13-1952 (DATE)
BY Alyn Pritchett (NAME OF ISSUING REPRESENTATIVE) 4-19-51 (DATE) 5955 (DESIGNATION NO.)

5. CAA APPROVED REPAIR STATION CERTIFICATION

The aircraft described on the reverse has been inspected under the authority accorded certificated repair station No. ____ by CAR 52 and was found to be:

☐ AIRWORTHY
☐ UNAIRWORTHY

(REPAIR STATION AUTHORIZED SIGNATURE) (DATE)

6. CAA REPRESENTATIVE CERTIFICATION

I HAVE INSPECTED THE AIRCRAFT DESCRIBED ON THE REVERSE AND FOUND IT ☒ AIRWORTHY ☐ UNAIRWORTHY
(Check appropriate item)

DESIGNEE'S SIGNATURE Jarvis R. Howell	DESIGNATION NO. 465	DATE April 29, 1952	
AVIATION SAFETY AGENT'S SIGNATURE James A. Hammon	CAA DESIGNATION NO. 4-579-3	DATE 5-2-52	☒ ACCEPTED ☐ REINSPECTED ☐ SPOT CHECKED

☐ ATTACHMENT

U. S. GOVERNMENT PRINTING OFFICE 16—80827-2

Form ACA-305A (11-51)

FAA AIRCRAFT REGISTRY
CAMERA NO. 5 DATE: 1-4-85

Form ACA-809 (6-47)

DUPLICATE: 4/18/51

UNITED STATES OF AMERICA
DEPARTMENT OF COMMERCE
CIVIL AERONAUTICS ADMINISTRATION

OPERATION LIMITATIONS

ENGINE MAKE	ENGINE MODEL	AIRCRAFT MAKE	AIRCRAFT MODEL	NATIONALITY AND REGISTRATION MARKS	SERIAL NO.	TYPE CERTIF. NO.
Lycoming	R-680E3B	Stinson	V-77	N4608N	77-197	774

ENGINE AND AIR SPEED LIMITS NOT TO BE EXCEEDED

(All Values Are Maximum and Are NOT RECOMMENDED OPERATING LIMITS)

ENGINE LIMITS	MINUTES	ALTITUDE	IN. HG.	R. P. M.	HP.	MIN. OCT.	TRUE INDICATED AIR SPEED	M. P. H. LAND	M. P. H. SEA
TAKE-OFF	one	any	28.0	2300	300	87	CLIMB OR LEVEL FLIGHT	155	
*METO SEA LEVEL		TO any	27.5	2200	285	87	GLIDE OR DRIVE (Smooth Air Only)	198	
*METO ALTITUDE	FROM						FLAPS EXTENDED	108	

*METO—MAXIMUM EXCEPT TAKE-OFF

TAKE-OFF WEIGHT LAND	TAKE-OFF WEIGHT SEA	LANDING WEIGHT LAND	LANDING WEIGHT SEA
4000		4000	

C. G. LIMITS

LAND	SEA
90.6 to 92.1	

WEIGHT

SEE WEIGHT AND BALANCE DATA FOR LOADING INFORMATION

DATUM

LIMITATIONS

Datum is 70 in. fwd. of wing L.E., most fwd. point, or 42.375 in. fwd. of firewall.

INSPECTOR OR DESIGNEE'S SIGNATURE	DESIG. NO.	DATE
Frank W. Haeder		April 20, 1947

CHIEF, AIRCRAFT DIVISION

ADDITIONAL LIMITATIONS YES ☒ NO ☐ (IF YES—SEE OVER)

THIS FORM MUST BE AVAILABLE IN THE AIRCRAFT WHEN OPERATED

16—45710-2 GPO

FAA AIRCRAFT REGISTRY
CAMERA NO. 5 DATE: 1-4-85

"The airworthiness certificate for this aircraft is based upon a tentative approval of the aircraft model and is subject to revision at the time of final approval. In addition, further modification of the aircraft may be required at that time. It will be the owner's responsibility to comply with all pertinent provisions of the final Aircraft Specification and Airworthiness Directive."

FAA AIRCRAFT REGISTRY
CAMERA NO. 5 DATE: 1-4-85

5-583

Form ACA-305
(11-49)

DEPARTMENT OF COMMERCE
CIVIL AERONAUTICS ADMINISTRATION

Form Approved
Budget Bureau No. 41-R041.4

APPLICATION FOR AIRWORTHINESS CERTIFICATE AND/OR ANNUAL INSPECTION OF AN AIRCRAFT

INSTRUCTIONS
Please submit this form to the Civil Aeronautics Administration Aviation Safety Field Representative

1. APPLICATION (CHECK WHETHER)
- ☐ ORIGINAL AIRWORTHINESS CERTIFICATE
- ☒ ANNUAL INSPECTION

2. AIRWORTHINESS CLASSIFICATION
- ☒ STANDARD ☐ RESTRICTED
- ☐ EXPERIMENTAL ☐ LIMITED ☐ OTHER

AIRCRAFT

3. MAKE: Stinson

4. MODEL: V-77 (AT-19)

5. NATIONALITY AND REGISTRATION MARK: N 4608N

6. MANUFACTURER'S SERIAL NO.: 77-197

ENGINE

7. MAKE: Lycoming

8. MODEL: (R-680-13) R680-E3B 11-43

9. OWNER'S NAME: Campbell Flying Service

10. (GIVE ADDRESS ONLY IF IT HAS BEEN CHANGED FROM THAT GIVEN ON YOUR CERTIFICATE OF REGISTRATION, FORM ACA-500)

11. ATTACHMENTS (CHECK WHICH)
- ☒ ACA-319 ☐ WEIGHT AND BALANCE REPORT
- ☐ ACA-337 ☐ DATA, DRAWINGS, ETC.
- ☐ ACA-317 ☐ UNAPPROVED DEVIATION DATA

12. I CERTIFY that the above statements are true.

Alyn. Pritchett. (OWNER OR AUTHORIZED AGENT)

4-13-51 (DATE) Agent (TITLE)

Form ACA-305a
(11-49)

AIRCRAFT INSPECTION REPORT
(To be completed by CAA representatives)

13. It has been determined that the aircraft described in 305 above is in conformity with the following:
(CHECK AND COMPLETE APPLICABLE ITEMS)

a. ☒ AIRCRAFT SPECIFICATION NO. 774 THROUGH SHEET REVISION NO. ____
b. ☐ AIRCRAFT LISTING PAGE NO. ____
c. ☒ AIRWORTHINESS DIRECTIVE SUMMARY 1951 (YEAR) THROUGH CARD NO. 51-10
d. ☐ OPERATIONS LIMITATIONS FORM ACA-309 ISSUED.
e. ☒ OPERATIONS LIMITATIONS FORM ACA-309 IS AVAILABLE IN AIRCRAFT.
f. ☐ CURRENT, APPROVED, AIRPLANE FLIGHT MANUAL IS AVAILABLE IN AIRCRAFT.
g. ☒ ALL APPLICABLE NOTES, INSTRUMENT MARKINGS, AND PLACARDS HAVE BEEN COMPLIED WITH.
h. ☒ CERTIFICATE OF AIRWORTHINESS FORM ACA-1362 WAS ISSUED.

FINDINGS

14. ☒ AIRWORTHY ☐ UNAIRWORTHY

15. DESIGNEE'S SIGNATURE: Alyn. Pritchett.

16. DESIGNATION NO.: 5355

17. DATE: 4-13-51 aef

18. AVIATION SAFETY AGENT'S SIGNATURE: E. R. Williams

19. ☒ ACCEPTED ☐ REINSPECTED

20. DATE: 5-18-51

21. REASON FOR DISAPPROVAL, OR REMARKS (INDICATE IF YOU HAVE USED THE REVERSE TO CONTINUE THIS OR OTHER ITEM) ☐ YES ☒ NO

RECEIVED MAY 17 1951 AVIATION SAFETY DISTRICT OFFICE CAA ST. LOUIS, MISSOURI

Orig 10-17-1 NW X

FAA AIRCRAFT REGISTRY
CAMERA NO. 5 DATE: 1-4-85

FAA AIRCRAFT REGISTRY
CAMERA NO. 5 DATE: 1-4-85

Form ACA-305 (12-47)

DEPARTMENT OF COMMERCE
CIVIL AERONAUTICS ADMINISTRATION

FORM APPROVED
BUDGET BUREAU NO. 41-R041.8

APPLICATION FOR AIRWORTHINESS CERTIFICATE AND/OR ANNUAL INSPECTION OF AN AIRCRAFT

INSTRUCTIONS
Please submit this form to the Civil Aeronautics Administration Field Representative

APPLICATION (Check whether)
- [ ] ORIGINAL AIRWORTHINESS CERTIFICATE
- [x] ANNUAL INSPECTION

AIRWORTHINESS CLASSIFICATION
- [x] STANDARD
- [ ] RESTRICTED
- [ ] EXPERIMENTAL
- [ ] LIMITED
- [ ] OTHER

AIRCRAFT

MAKE	MODEL	TYPE CERTIFICATE NO.
Stinson	V-77	774

REGISTRATION NO.	MANUFACTURER'S SERIAL NO.
4608N	77-197

Mfg 11-43

ENGINE

MAKE	MODEL
Lycoming	R-680E3B

OWNER'S NAME: Muriel L. Woosley

PERMANENT ADDRESS (Street and number, city, zone, and State): 3322 S. McKinnley, Oklahoma City, Okla.

ATTACHMENTS (Check which)
- [x] ACA-319
- [ ] WEIGHT AND BALANCE REPORT
- [ ] ACA-337
- [ ] DATA, DRAWINGS, ETC.
- [ ] ACA-317
- [ ] UNAPPROVED DEVIATION DATA

I CERTIFY that the above statements are true.

Jack Taylor (Owner or authorized agent.)

4-15-50 (DATE) Agent (TITLE)

Form ACA-305a

AIRCRAFT INSPECTION REPORT

(To be completed by a CAA inspector or a designated inspector or representative)

It has been determined that the aircraft described in 305 above is in conformity with the following:

ALL APPLICABLE MANDATORY NOTES, INSTRUMENT MARKINGS AND PLACARDING REQUIREMENTS HAVE BEEN COMPLIED WITH [x] YES [ ] NO

AIRCRAFT SPECIFICATION—AIRWORTHINESS DIRECTIVE NO(S). A-774 ADS thru 50-14 (Specify)

FORM ACA-1362, CERTIFICATE OF AIRWORTHINESS, ISSUED [ ] ORIGINAL [x] ANNUAL INSPECTION

(Check whether)
- [x] OPERATION LIMITATIONS FORM ACA-309 WAS ISSUED, OR
- [ ] APPROVED AIRPLANE FLIGHT MANUAL IS IN THE AIRCRAFT

FINDINGS

- [x] AIRWORTHY
- [ ] UNAIRWORTHY

DESIGNEE'S SIGNATURE AND NO. R. G. Brown, Jr. 4422

CAA INSPECTOR'S SIGNATURE C Schuck

- [x] ACCEPTED
- [ ] REINSPECTED

DATE 4-15-50

DATE 5-1-50

REASON FOR DISAPPROVAL, OR REMARKS (Indicate if you have used the reverse to continue this or other item.) [ ] Yes [x] No

acw 7-25-50 NW

U. S. GOVERNMENT PRINTING OFFICE 16—84320-1

OKcity

FAA AIRCRAFT REGISTRY
CAMERA NO. 5 DATE: 1-4-85

FAA AIRCRAFT REGISTRY
CAMERA NO. 5 DATE: 1-4-85

FORM ACA-305
(3-5-47)

DEPARTMENT OF COMMERCE
CIVIL AERONAUTICS ADMINISTRATION

FORM APPROVED
BUDGET BUREAU NO. 41-R041.3

APPLICATION FOR AIRWORTHINESS CERTIFICATE AND/OR ANNUAL INSPECTION OF AN AIRCRAFT

INSTRUCTIONS
Please submit this form to the Civil Aeronautics Administration Field Representative.

APPLICATION (Check whether)
- [ ] ORIGINAL AIRWORTHINESS CERTIF.
- [x] ANNUAL INSPECTION

CAA IDENTIFICATION
- [x] NC
- [ ] NR
- [ ] OTHER (Specify)
- [ ] NX
- [ ] NL

AIRCRAFT

MAKE	MODEL		
Stinson	~~AT-19~~ V-77		
REGISTRATION NO.	MANUFACTURER'S SERIAL NO.	DATE MANUFACTURED	TYPE CERTIFICATE NO.
4608N	77-197	Nov. 1943	774

ENGINE

MAKE	MODEL
Lycoming	R-680-13

OWNER'S NAME	PERMANENT ADDRESS (Street and number, City, Zone and State)
W. E. Howell	Oklahoma City, Oklahoma

ATTACHMENTS (Check which)
- [ ] ACA-319
- [ ] ACA-337
- [ ] ACA-805
- [ ] ACA-317
- [ ] WEIGHT AND BALANCE REPORT
- [ ] SPECIAL APPROVALS
- [ ] DATA, DRAWINGS, ETC.
- [ ] UNAPPROVED DEVIATION DATA

I CERTIFY THAT THE ABOVE STATEMENTS ARE TRUE.

Gene Hill
OWNER OR AUTHORIZED AGENT

4-2-49
DATE

~~Mechanic~~ Agent
TITLE

FORM ACA-305a (FORMERLY ACA-307) **AIRCRAFT INSPECTION REPORT**
(To be completed by a CAA inspector or a designated inspector or representative)

IT HAS BEEN DETERMINED THAT THE AIRCRAFT DESCRIBED IN 305 ABOVE IS IN CONFORMITY WITH THE FOLLOWING

ALL APPLICABLE MANDATORY NOTES, INSTRUMENT MARKINGS AND PLACARDING REQUIREMENTS HAVE BEEN COMPLIED WITH [x] YES [ ] NO

(AIRCRAFT SPECIFICATION - AIRWORTHINESS DIRECTIVE, NO(S). A-774-3 ADS (None) (SPECIFY)

AUTHORITY FOR EXCEPTIONS (If any)

FORM ACA-1362, CERTIFICATE OF AIRWORTHINESS, ISSUED [ ] ORIGINAL [x] ANNUAL INSPECTION

(Check whether)
- [x] OPERATION LIMITATIONS FORM ACA-309 WAS ISSUED, ~~OR~~
- [ ] ~~APPROVED AIRPLANE FLIGHT MANUAL~~ IS IN THE AIRCRAFT

FINDINGS

	DESIGNEE'S SIGNATURE AND NO.		DATE
[x] AIRWORTHY [ ] UNAIRWORTHY	John C. Cypher	4344	4-2-49
	CAA INSPECTOR'S SIGNATURE Robert C. Royal	[x] ACCEPTED [ ] REINSPECTED	DATE APR 21 1949

REASON FOR DISAPPROVAL, OR REMARKS (Indicate if you have used the reverse to continue this or other item [ ] Yes [ ] No)

aircraft registration in name of Frank Clark Okla. City

5-25-49

22665

FAA AIRCRAFT REGISTRY
CAMERA NO. 5 DATE: 1-4-85

FAA AIRCRAFT REGISTRY
CAMERA NO. 5 DATE: 1-4-85

FORM ACA-305
(3-5-47)

DEPARTMENT OF COMMERCE
CIVIL AERONAUTICS ADMINISTRATION

FORM APPROVED
BUDGET BUREAU NO. 41-R041.3

APPLICATION FOR AIRWORTHINESS CERTIFICATE AND/OR ANNUAL INSPECTION OF AN AIRCRAFT

INSTRUCTIONS
Please submit this form to the Civil Aeronautics Administration Field Representative.

APPLICATION (Check whether)
- [ ] ORIGINAL AIRWORTHINESS CERTIF.
- [X] ANNUAL INSPECTION

CAA IDENTIFICATION
- [X] NC
- [ ] NR
- [ ] OTHER (Specify)
- [ ] NX
- [ ] NL

AIRCRAFT

MAKE: STINSON	MODEL: V-77 (Army)(AT19)
REGISTRATION NO.: 4608N	MANUFACTURER'S SERIAL NO.: 77-197
DATE MANUFACTURED: 11-6-43	TYPE CERTIFICATE NO.: 774

ENGINE

MAKE: LYCOMING	MODEL: R-680E3B
OWNER'S NAME: W.E.and Millye Howell	PERMANENT ADDRESS (Street and number, City, Zone and State): 2304 East 4 place, Tulsa, Okla

ATTACHMENTS (Check which)
- [X] ACA-319
- [ ] ACA-337
- [ ] ACA-805
- [ ] ACA-317
- [ ] WEIGHT AND BALANCE REPORT
- [ ] SPECIAL APPROVALS
- [ ] DATA, DRAWINGS, ETC.
- [ ] UNAPPROVED DEVIATION DATA

I CERTIFY THAT THE ABOVE STATEMENTS ARE TRUE.
Robert E. Erb
OWNER OR AUTHORIZED AGENT
4-11-48 DATE
Agent TITLE

FORM ACA-305a (FORMERLY ACA-307) **AIRCRAFT INSPECTION REPORT**
(To be completed by a CAA inspector or a designated inspector or representative)

IT HAS BEEN DETERMINED THAT THE AIRCRAFT DESCRIBED IN 305 ABOVE IS IN CONFORMITY WITH THE FOLLOWING

ALL APPLICABLE MANDATORY NOTES, INSTRUMENT MARKINGS AND PLACARDING REQUIREMENTS HAVE BEEN COMPLIED WITH [X] YES [ ] NO

(AIRCRAFT SPECIFICATION - AIRWORTHINESS DIRECTIVE, NO(S). A774-2) None Applicable (SPECIFY)

AUTHORITY FOR EXCEPTIONS (If any)

FORM ACA-1362, CERTIFICATE OF AIRWORTHINESS, ISSUED [ ] ORIGINAL [X] ANNUAL INSPECTION

(Check whether)
- [ ] OPERATION LIMITATIONS FORM ACA-309 WAS ISSUED, OR
- [X] APPROVED AIRPLANE ~~FLIGHT MANUAL~~ ACA-309 IS IN THE AIRCRAFT

FINDINGS

- [X] AIRWORTHY
- [ ] UNAIRWORTHY

DESIGNEE'S SIGNATURE AND NO.: Robert E. Erb 4345 — DATE: 4-13-48

CAA INSPECTOR'S SIGNATURE: [signature] — [X] ACCEPTED [ ] REINSPECTED — DATE: 4-23-48

REASON FOR DISAPPROVAL, OR REMARKS (Indicate if you have used the reverse to continue this or other item [ ] Yes [ ] No)

RB

Acc 5-14-48

22665

FAA AIRCRAFT REGISTRY
CAMERA NO. 5 DATE: 1-4-85

FAA AIRCRAFT REGISTRY
CAMERA NO. 5 DATE: 1-4-85

FORM ACA-305
(3-7-46)

DEPARTMENT OF COMMERCE
CIVIL AERONAUTICS ADMINISTRATION

BUDGET BUREAU NO. 41-R041.2
APPROVAL EXPIRES FEBRUARY 15, 1947

APPLICATION FOR AIRWORTHINESS CERTIFICATE AND/OR ANNUAL INSPECTION OF AN AIRCRAFT

INSTRUCTIONS
Please submit this form to the Civil Aeronautics Administration Field Representative.

APPLICATION (Check)
- [x] AIRWORTHINESS CERTIFICATE
- [ ] ANNUAL INSPECTION

CAA IDENTIFICATION
- [x] NC [ ] NX [ ] NR [ ] OTHER (Specify)

AIRCRAFT

MAKE: Stinson
MODEL: V-77 (Army A.T 19)
REGISTRATION NO.: N.C 4608N
MANUFACTURER'S SERIAL NO.: 77-197
DATE MANUFACTURED: Nov. 19 1943

ENGINE

MAKE: Lycoming
MODEL: R680 E3 B
RATED H.P.: 300
(Check whether)
- [ ] NEW [x] USED [ ] OVERHAULED

IF OVERHAULED, STATE BY WHOM
DATE OF OVERHAUL

(Check which)
- [ ] AIRCRAFT NOW REGISTERED WITH THE ADMINISTRATION
- [ ] APPLICATION FOR REGISTRATION AND BILL OF SALE (FORMS ACA-501 AND 502) ATTACHED

OWNER'S NAME: Frank Clark
PERMANENT ADDRESS (Street and No., City, Zone, State): 1225 N. Robinson St Okla. City Oklahoma

ATTACHMENTS (Check which)
- [x] ACA-319
- [x] ACA-337
- [ ] ACA-805
- [ ] ACA-317
- [x] WEIGHT AND BALANCE REPORT
- [ ] SPECIAL APPROVALS
- [ ] DATA, DRAWINGS, ETC.
- [ ] UNAPPROVED DEVIATION DATA

I CERTIFY THAT THE ABOVE STATEMENTS ARE TRUE

Robert F. Erb
~~OWNER OR~~ AUTHORIZED AGENT

DATE: 4-20-47
TITLE: A&E 361882

FORM ACA-305a (FORMERLY ACA-307)

AIRCRAFT INSPECTION REPORT

(To be completed by a CAA inspector or a designated inspector or representative)

IT HAS BEEN DETERMINED THAT THE AIRCRAFT DESCRIBED IN 305 ABOVE IS IN CONFORMITY WITH THE FOLLOWING

LISTING IN INSPECTOR'S HANDBOOK, CHAP. XVIII		AIRCRAFT SPECIFICATION		AIRWORTHINESS DIRECTIVE	
PAGE NO.	T.C. NO.	SERIAL NO. A-774-1	EFFECTIVE NOTES 1, 2, 3	NO.	EFFECTIVE NOTES

OTHER (Describe)

EXCEPTIONS, IF ANY (If additional space is required, use reverse)

[x] FORM ACA-319 (Return to owner)	APPROVED BY R. F. Erb	MECH. CERTIF. AND RATING NO. A & E 361882	DATED 3-25-47
[x] FORM ACA-1362 ISSUED	CERTIFICATE VALID TO (Specify date)		

[ ] AIRCRAFT AIRWORTHINESS CERTIFICATE WITH OPERATION LIMITATIONS FORM (ATTACHED) WAS ISSUED

FINDINGS

[x] AIRWORTHY	DESIGNEE'S SIGNATURE AND NO.		DATE
[ ] UNAIRWORTHY	CAA INSPECTOR'S SIGNATURE J. A. Gammon	[ ] ACCEPTED [ ] REINSPECTED	DATE 4-20-47

REASON FOR DISAPPROVAL, OR REMARKS (Indicate if you have used the reverse to continue this or other item [ ] Yes [ ] No)

21666

GPO—Com. 2—p. 1

FAA AIRCRAFT REGISTRY
CAMERA NO. 5 DATE: 1-4-85

FAA AIRCRAFT REGISTRY
CAMERA NO. 5 DATE: 1-4-85

Form ACA-809 —Page 1 (12-45)

UNITED STATES OF AMERICA
DEPARTMENT OF COMMERCE
CIVIL AERONAUTICS ADMINISTRATION

OPERATION LIMITATIONS

IDENT. MARK NO 4606N

ENGINE MAKE	ENGINE MODEL	AIRCRAFT MAKE	AIRCRAFT MODEL	DATE MFRD.	SERIAL NO.	DESIGNATION	TYPE CERT.
LYCOMING	R-680E3B	STINSON	V-77	Nov. 19 1945	77-197	LAND*	774

ENGINE AND AIR SPEED LIMITS NOT TO BE EXCEEDED

(All Values Are Maximum and Are NOT RECOMMENDED OPERATING LIMITS)

ENGINE LIMITS	MINUTES	ALTITUDE	IN. HG.	R. P. M.	H. P.	FUEL OCT.
TAKE-OFF	ONE	ANY	28.0	2300	300	87
METO* SEA LEVEL	X	TO ANY	27.5	2200	285	87
METO* ALTITUDE	FROM					

TRUE INDICATED AIR SPEED	M. P. H. LAND	KNOTS SEA
CLIMB OR LEVEL FLIGHT	155	
GLIDE OR DIVE (Smooth Air Only)	198	
FLAPS EXTENDED	108	

*METO—MAXIMUM EXCEPT TAKE-OFF

TAKE-OFF WEIGHT LAND	TAKE-OFF WEIGHT SEA	LANDING WEIGHT LAND	LANDING WEIGHT SEA
4000		4000	

OPERATIONS AUTHORIZED

C. G. Range is 90.6" to 92.1"
Datum is 70 in. fwd. of wing L.E. at most fwd. poit, or 42.375 in. fwd. of firewall.
* See weight & balance data section for loading information.

INSPECTOR'S SIGNATURE [signature]
DATE April 20, 1947

ADDITIONAL OPERATIONS AUTHORIZED YES ☒ NO ☐ (IF YES—SEE OVER)

THIS PLACARD MUST BE DISPLAYED IN VIEW OF THE PILOT
(FOLD HERE)

16—48710-2

FAA AIRCRAFT REGISTRY
CAMERA NO. 5 DATE. 1-4-85

ADDITIONAL OPERATIONS AUTHORIZED

"The Airworthiness Certificate for this aircraft is based on a tentative approval of the aircraft model and is subject to revision at the time of final approval. In addition, further modification of the aircraft may be required at that time. It will be the owner's responsibility to comply with all pertinent provisions of the final AIRCRAFT SPECIFICATION and AIRWORTHINESS DIRECTIVES."

IF THIS FORM IS LOST OR DESTROYED, A DUPLICATE MAY BE OBTAINED FROM THE CERTIFICATION AND RECORDATION SECTION, AIRCRAFT AND COMPONENTS SERVICE, CIVIL AERONAUTICS ADMINISTRATION, WASHINGTON, D. C., FOR $2.00. (MONEY ORDER OR CHECK SHOULD BE MADE PAYABLE TO THE TREASURER OF THE UNITED STATES.)

10—487:0-2

FAA AIRCRAFT REGISTRY
CAMERA NO. 5 DATE: 1-4-85

14

Form ACA 337
(3-40)

Budget Bureau No. 41-R052.
Form Approved.

Classification	Nature of Work Performed	
	Major repair	Major alteration
Aircraft		X
Engine		
Propeller		
Instrument		

UNITED STATES OF AMERICA
DEPARTMENT OF COMMERCE
CIVIL AERONAUTICS ADMINISTRATION
WASHINGTON

(To be filled in by inspector)

Approved
Disapproved
Forwarded for engineering approval (Submit complete details)

Useful Load 1387.87 lbs
Empty weight 2611.13 lbs
C. G. 85.93 inches aft datum.

Date
Designee
Number

Date April 20, 1947
Inspector J. H. Gomm
☐ Accepted. ☐ Reinspected.

REPAIR AND ALTERATION FORM

AIRCRAFT—ENGINES—PROPELLERS—INSTRUMENTS

Aircraft Identification Mark No. NC 4608H

Owner's name Frank Clark's
Owner's address 1225 N. Robinson, Oklahoma City, Oklahoma
Aircraft manufacturer and model Consolidated Vultee A-19 Serial No. 77-197
Engine manufacturer and model* Serial No.
Propeller manufacturer and model* Serial No.
Propeller blade model* Serial No.
Instrument name, manufacturer, and model* Serial No.

* To be filled in only for unit repaired or altered.

REPAIR OR ALTERATION AGENCY

*_____ Manufacturer. *_____ Approved repair station No. *X Certificated mechanic

Agency's name Frank Clark's Robert F. Lard

Address Hangar # 6 Municipal Airport, Okla. City, Okla. Date of repair or alteration 3-25-47

The following work has been accomplished in accordance with Part 18, Civil Air Regulations. (For recommended practice refer to CAM 18.)

[If blank space is insufficient for clear presentation, attach separate pages (8" x 10½" or multiples thereof) bearing aircraft identification mark]

Aircraft converted to civilian status. Removed all class 3 equipment not required as a civilian aircraft. Wings, Ailerons, Flaps and belly of fuselage recovered with grade A fabric. Remainder of fuselage rejuvenated.

All pertinent parts of tentative aircraft specifications A 774-1 were complied with.

100 hr inspection made on aircraft, engine and propeller

A rear seat conversion kit (manufactured by Carl E. Gouldburg) was installed

Sound proofing and upholstery was installed in passenger compartment.

* CHECK AGENCY INVOLVED.

TO BE FILLED OUT IN DUPLICATE AND COMPLETED ON OPPOSITE SIDE

Distribution of Completed Forms.
(1) When repair and alteration is identified by aircraft identification and serial number the original is to be forwarded through the appropriate Field Branch Office, and copy delivered to the owner of the aircraft. (2) When the repair and/or alteration of spare components is not identified this form must stay with the component until it is installed and the aircraft identification and serial number is entered on this form which is to be forwarded in the same manner as set forth in condition (1).

16—8168-6

FAA AIRCRAFT REGISTRY
CAMERA NO. 5 DATE: 1-4-85

NOTE: Submitted herewith are technical data, drawings, Weight and Balance Report, etc., as listed below.

	SCALE READING	TARE	NET
Left wheel	1230 lbs	0	1230 lbs
Right wheel	1247 lbs	0	1447 lbs
Tail wheel	178 lbs	12 lbs	166 lbs

Weight with full oil supply 4.25 gal. ---------- 2643 lbs.
Distance center of front wheels to center of tail wheel 227.25
Distance center of front wheels to Datum 70.75

$\frac{178 \times 227.25}{2643} = 14.27 + 70.75 = 85.02$ ---------- Arm with oil

SUBTRACT OIL

	Wt. lbs.	Arm	Moment
Aircraft	2643.00	85.02	224707.86
Oil	31.87	37.00	1179.19
	2611.13		223528.67

$\frac{223528.67}{2601.13}$ = (85.93 inches Aft Datum Empty C.G.)

FORWARD EXTREME

	Wt. Lbs.	Arm	Moment
Aircraft	2611.13	85.93	224374.40
Oil	31.87	37.00	1179.19
Pilot	170.00	84.00	14280.00
Passenger front	170.00	84.00	14280.00
Minimum Fuel	142.2	103.05	14653.71
	3125.20		268767.30

$\frac{268767.30}{3125.20}$ = 86. inches aft datum

AFT EXTREME

	Wt. Lbs.	Arm	Moment
Aircraft	2611.13	85.93	224374.40
Baggage(placecard cap)	150.	130.00	19500.00
Passengers 3 rear	410.	120.00	49200.00
Max Fuel	456.	103.05	47196.00
Pilot	170.	84.00	14280.00
Oil	31.87	37.00	1179.19
	3829.00		355729.59

$\frac{355729.59}{3829.}$ = 92.90 inches aft datum

MAXIMUM LOADING CONDITION

	Wt. Lbs.	Arm	Moment
Aircraft	2611.13	85.93	224374.40
Oil	31.87	37.00	1179.19
Pilot & Passenger(front)	340.00	84.00	28560.00
Baggage(Placecard Cap)	150.00	130.00	19500.00
Passengers(rear)	410.00	120.00	49200.00
Maximum fuel	456.00	103.05	47196.00
	3999.		370009.59

$\frac{370009.59}{3999.}$ = 92.52 inches aft datum

SUPERVISING MECHANIC'S CERTIFICATE

Robert F. Erb certifies that the foregoing statements are true of his own knowledge.

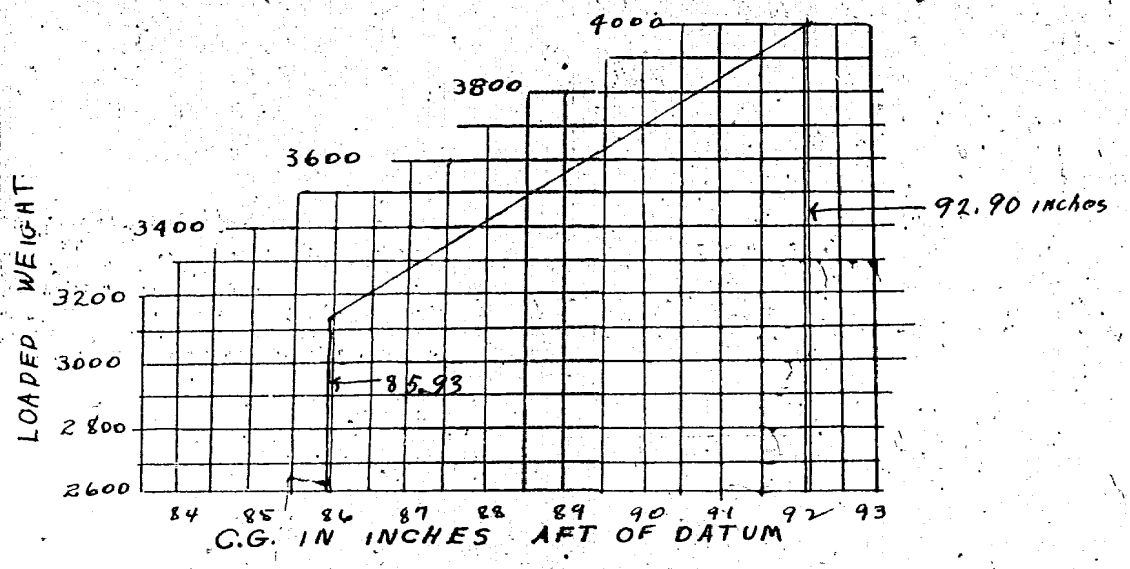
3-27-87 (Date)
Robert F. Erb (Mechanic's signature)
Mechanic's Certificate No A&E 361782 (Rating)

ie—sics-1

FAA AIRCRAFT REGISTRY
CAMERA NO. 5 DATE: 1-4-85

From aircraft specifications A-774-1

C.G. LIMITS
Forward limit (90.6)(27% MAC) at 4000 lbs. (84.4)(17.1%) at 3178 lbs.
Rearward " (92.1)(27% MAC) at 4000 lbs.

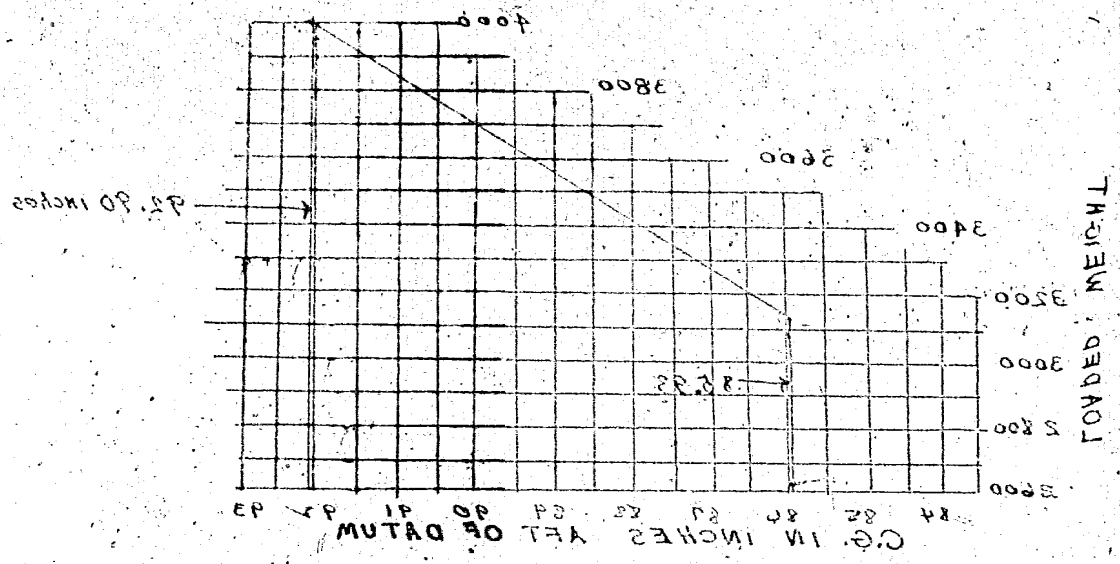


Robert F. Cat
A&E. 361 882

FAA AIRCRAFT REGISTRY
CAMERA NO. 5 DATE: 1-4-85

From aircraft specifications A-774-1

C.G. LIMITS Forward " (92.1)(27% MAC) at 4000 lbs.
Aft " (90.6)(27% MAC) at 4000 lb. (84.4)(21.8) at 3174 lbs.



Robert A. Bell
A+E, 30 1982

FAA AIRCRAFT REGISTRY
CAMERA NO. 5 DATE: 1-4-85

Equipment List

Propeller & Propeller Accessories

1. Ham. Std. propeller, hub 2B20, blades 6135A-6

3. Ham. Std. governor (1012-0)

Engine and Engine Accessories

101 carburator heater
102 Carburator filter, (air)
103 Starter (Eclipse type 397 modle 15)
104 Engine - Lycombing R-680E3B
165 vacum pump (Eclipse type 692 model 2)

Landing Gear

201. 750-10 wheels (Hayes) - 850-10 6 ply tires + tubes
Expander tube, hydraulic brakes (Hayes, Army C-2-210)
202. 10 in. tail wheel (Hayes, Army B-3-28A);
10 in. S.C. 4 ply tire and tube

Electrical and Radio Equipment

301. Generator (Eclipse type 307 modle 11)
302. Battery (Exide R129DN)
303. Landing light (Grimes)
304. Generator controle box (type 1035 modle 2)
305. Position lights

401 Pilots seat with Air Associates safety belt (M-264)
402 Fire extinguisher (a) Fixed (B) Portable
403 Heating System
404 Ventilating system

600 ~~[illegible]~~ Co-pilot's seat with Air Associates safety Belt (M-264
" Rear seat (shown in attached drawings), (3) Air Associates safety belts (M-264)
" Upholstery

Robert F. Cub
A+E 361882

Equipment List

Propeller + Propeller Accessories

1. Ham. std. propeller, hub 2B20 blades 6135A-6

3. Ham. std. governor (1012-0)

Engine and Engine Accessories

101 carburetor heater
102 Carburetor filter (air)
103 Starter (Eclipse type 327 model 15)
104 Engine - Lycoming IO-360-B
105 Vacuum pump (Eclipse type 692 model 2)

Landing Gear

201. 750-10 wheels (Hayes) - 8 ply tires + tubes
Expander tube hydraulic brakes (Hayes, Army C-2-210)
202. 10 in. tail wheel (Hayes, Army B-3-284)
10 in. S.C. 4 ply tire and tube

Electrical and Radio Equipment

301. Generator (Eclipse type 307 model 11)
302. Battery (Exide R12PM)
303. Landing light (Grimes)
304. Generator control box (type 1055 model 2)
305. Position lights

Pilots

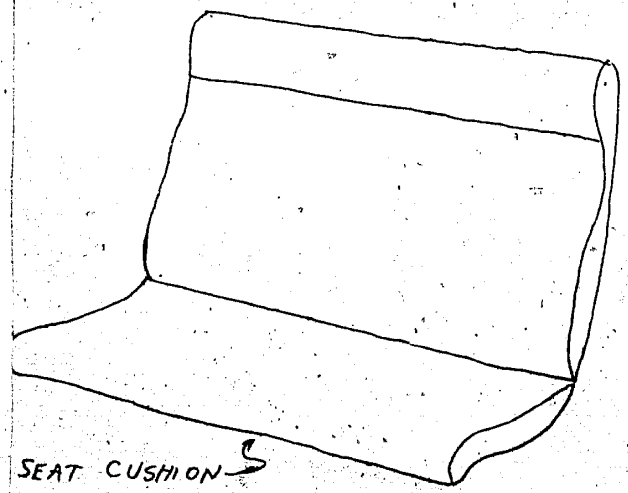
401 Pilots seat with Air Associates safety belt (M-254)
402 Fire extinguisher (2) Fixed (1) Portable
403 Heating system
404 Ventilating system

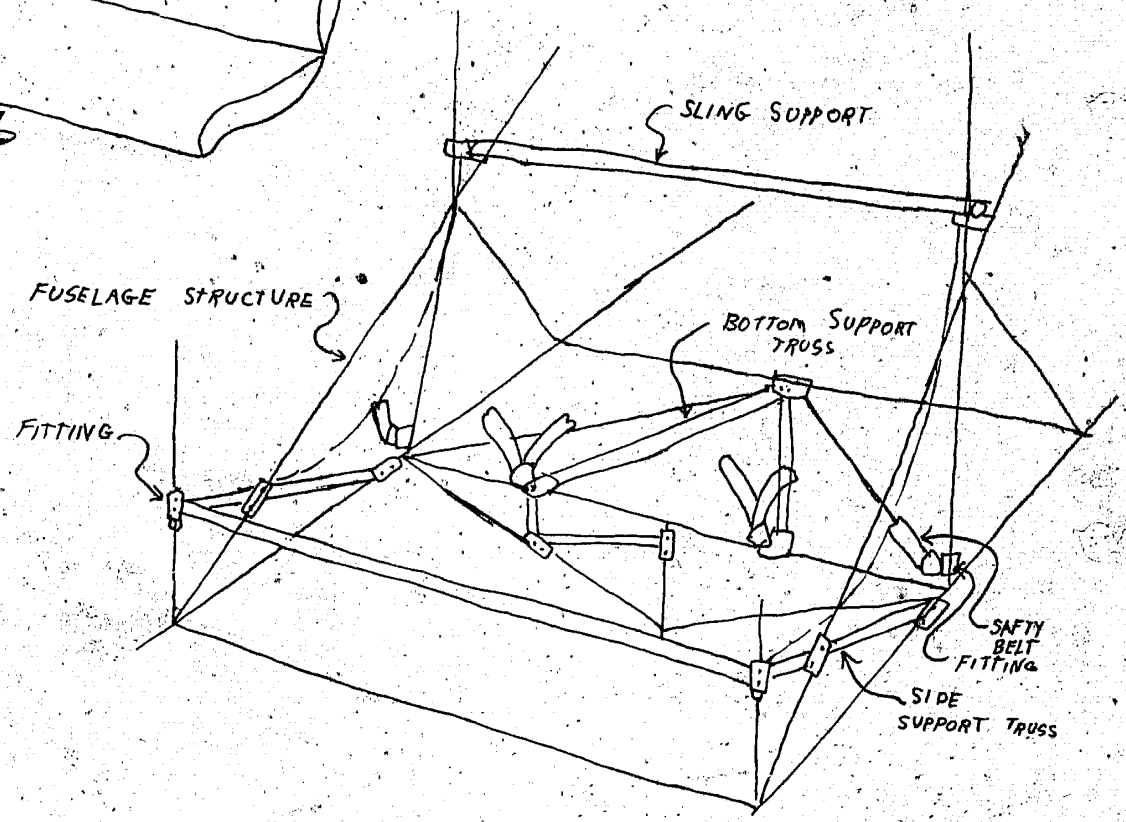
Co-pilots

500 ~~[illegible]~~ Co-pilots seat with Air Associates safety belt (M-254)
" Rear seat (shown in attached drawings) (3) Air Associates safety belts (M-254)
" Upholstery

Robert F. Gill
FAE 361942

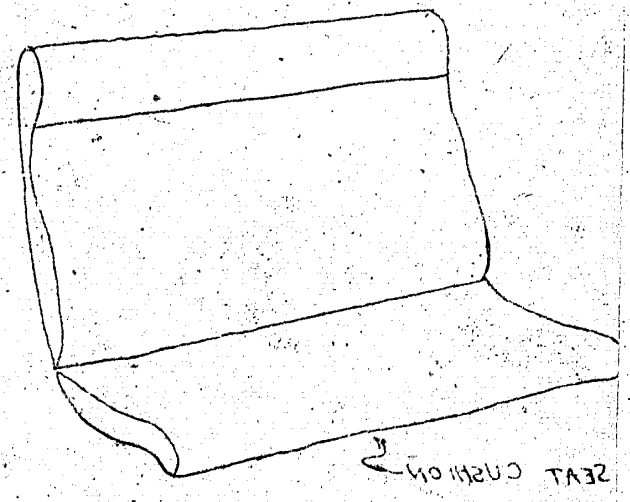
AT-19 CONVERSION KIT
SKETCH CARLE GULDBERG
700 WOLVERINE BLDG
ANN ARBOR, MICH

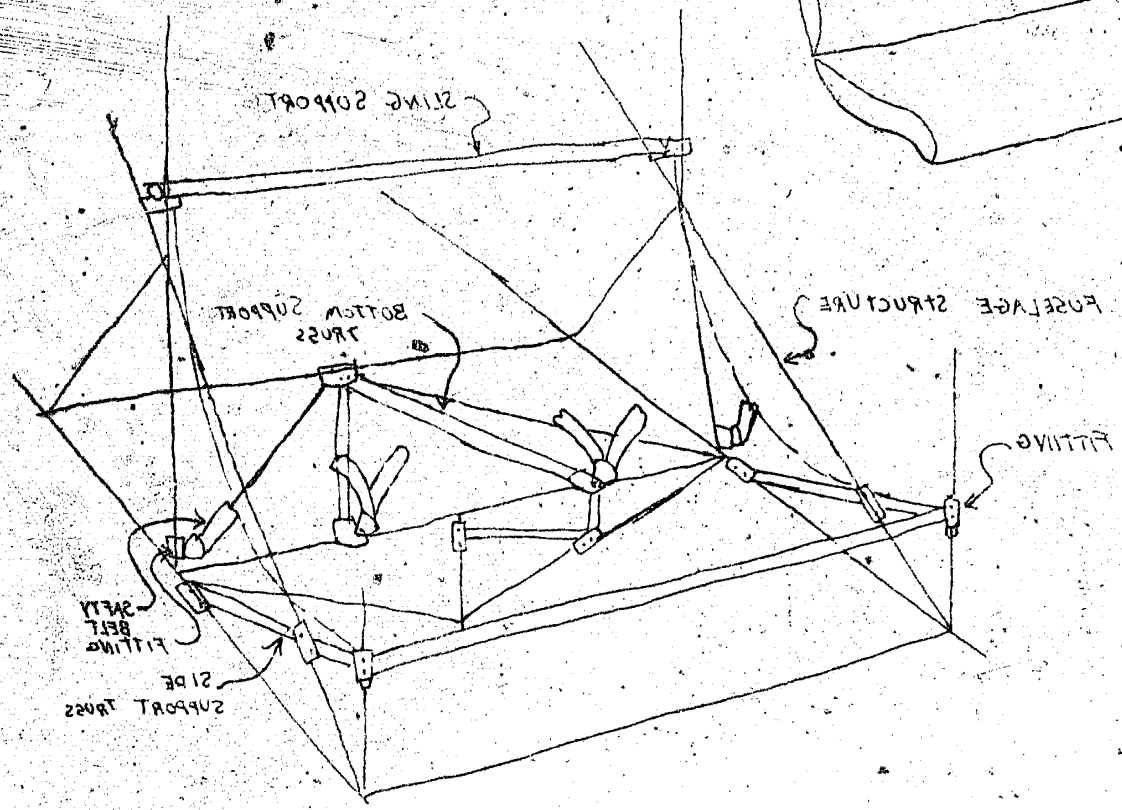




Robert F. Cole 361882 A&E

AT-19 CONVERSION KIT
SKETCH CARL GULDBERG
700 WOLVERINE, BLDG
ANN ARBOR, MICH





Cabin Fig. 3 Side View

FAA AIRCRAFT REGISTRY
CAMERA NO. 5 DATE: 1-4-85