



US Department
of Transportation
Federal Aviation
Administration

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

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

Electronic Tracking Number

For FAA Use Only

INSTRUCTIONS: Print or type all entries. See Title 14 CFR §43.9, Part 43 Appendix B, and AC 43.9-1 (or subsequent revision thereof) for instructions and disposition of this form. This report is required by law (49 U.S.C. §44701). Failure to report can result in a civil penalty for each such violation. (49 U.S.C. §46301(a))

1. Aircraft	Nationality and Registration Mark N50227	Serial No. 77-143	
	Make Stinson	Model V-77	Series
2. Owner	Name (As shown on registration certificate) Hanus, David, S		
	Address (As shown on registration certificate) Address 2715 Halstead Lane		
	City Mound	State MN	
	Zip 55364	Country USA	

3. For FAA Use Only

4. Type		5. Unit Identification			
Repair	Alteration	Unit	Make	Model	Serial No.
<input type="checkbox"/>	<input checked="" type="checkbox"/>	AIRFRAME	<u>Stinson</u>	(As described in Item 1 above)	<u>77-143</u>
<input type="checkbox"/>	<input type="checkbox"/>	POWERPLANT			
<input type="checkbox"/>	<input type="checkbox"/>	PROPELLER			
<input type="checkbox"/>	<input type="checkbox"/>	APPLIANCE	Type		
			Manufacturer		

6. Conformity Statement

A. Agency's Name and Address		B. Kind of Agency		C. Certificate No.	
Name <u>David S Hanus</u>	Address <u>2715 Halstead Lane</u> City <u>Mound</u> State <u>MN</u> Zip <u>55364</u> Country <u>USA</u>	<input checked="" type="checkbox"/>	U. S. Certificated Mechanic	2676877	
		<input type="checkbox"/>	Foreign Certificated Mechanic		
		<input type="checkbox"/>	Certificated Repair Station		
		<input type="checkbox"/>	Certificated Maintenance Organization		

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

Extended range fuel per 14 CFR Part 43 App. B <input type="checkbox"/>	Signature/Date of Authorized Individual 5-1-2018
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7. Approval for Return to Service

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

BY	FAA Ft. Standards Inspector	Manufacturer	Maintenance Organization	Persons Approved by Canadian Department of Transport
	FAA Designee	Repair Station	<input checked="" type="checkbox"/> Inspection Authorization	Other (Specify)
Certificate or Designation No. FA 3179543		Signature/Date of Authorized Individual 5-1-2018		

NOTICE

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

8. Description of Work Accomplished

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

N50227

MAY 01-2018

Nationality and Registration Mark

Date

Installed a Garmin SL-40 VHF Comm radio. P/N 430-6040-201. S/N 6003424 in radio rack at station 50.0 using supplied tray and hardware.

Installation was done IAW Garmin installation manual 560-0956-03 rev C and IAW AC 43.13B para 1-2, 11-31, 11-32, 11-36, 11-136, 11-137, 11-187, and AC43.13-2B chapters 1 and 3.

The power input to the SL-40 is protected by a Klixon 7277-2-5 circuit breaker labeled "SL-40" located in the instrument sub panel. The power is supplied by the avionics bus.

A Commant C-121 Comm antenna was installed on the top of the aircraft at station 80.0 and connected to the SL-40 by RG-400 cable.

The SL-40 was connected to the existing Garmin GMA 340 audio panel and is designated "Comm 2".

Total continuous electrical load does not exceed 80% of alternator capacity.

Post installation tests were performed to show proper operation and no interference with any other aircraft systems.

The aircraft equipment list was revised.

See revised weight and balance report dated May 01-2018.

-----END-----

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Additional Sheets Are Attached

DEPARTMENT OF TRANSPORTATION-FEDERAL AVIATION ADMINISTRATION

STANDARD AIRWORTHINESS CERTIFICATE

1 NATIONALITY AND REGISTRATION MARKS N50227	2 MANUFACTURER AND MODEL STINSON CONSOLIDATED VULTEE	3 AIRCRAFT SERIAL NUMBER 77-143	4. CATEGORY NORMAL
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5. AUTHORITY AND BASIS FOR ISSUANCE

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

Exceptions:

NONE

6. TERMS AND CONDITIONS

Unless sooner surrendered, suspended, revoked, or a termination date is otherwise established by the Administrator, this airworthiness certificate is effective as long as the maintenance, 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 "R"7-30-56	FAA REPRESENTATIVE Scot E. Thompson <i>[Signature]</i>	DESIGNATION NUMBER MSP FSDO GL15
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Any alteration, reproduction, or misuse of this certificate may be punishable by a fine not exceeding \$1,000, or imprisonment not exceeding 3 years, or both. THIS CERTIFICATE MUST BE DISPLAYED IN THE AIRCRAFT IN ACCORDANCE WITH APPLICABLE FEDERAL AVIATION REGULATIONS.

1
4

UNITED STATES OF AMERICA
DEPARTMENT OF COMMERCE—CIVIL AERONAUTICS ADMINISTRATION
CERTIFICATE OF AIRWORTHINESS

1. NATIONALITY AND REGISTRATION MARKS
N 50227

2. AIRCRAFT AIRWORTHINESS CLASSIFICATION
STANDARD

3. This Certificate of Airworthiness is issued pursuant to the Civil Aeronautics Act of 1938 as amended. The aircraft identified hereon is considered airworthy when maintained and operated in accordance with the Civil Air Regulations and applicable aircraft Operation Limitations.

4. UNLESS SOONER SUSPENDED, REVOKED, OR A TERMINATION DATE IS OTHERWISE ESTABLISHED BY THE CIVIL AERONAUTICS BOARD THIS CERTIFICATE WILL REMAIN IN EFFECT AS LONG AS THE AIRCRAFT IS MAINTAINED IN ACCORDANCE WITH CIVIL AIR REGULATIONS PART 45.

5. DATE OF ISSUANCE OR RENEWAL
7-30-56

6. FAA REPRESENTATIVE
HAROLD G. LANE
HAROLD G. LANE

7. REGISTRATION NO.
Reg. 41A
ASDO 22

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



CONSOLIDATED VULTEC AIRCRAFT CORP
STINSON DIVISION, WAYNE MICHIGAN

TYPE CERTIFICATION

774

MODEL

V77

SERIAL NUMBER

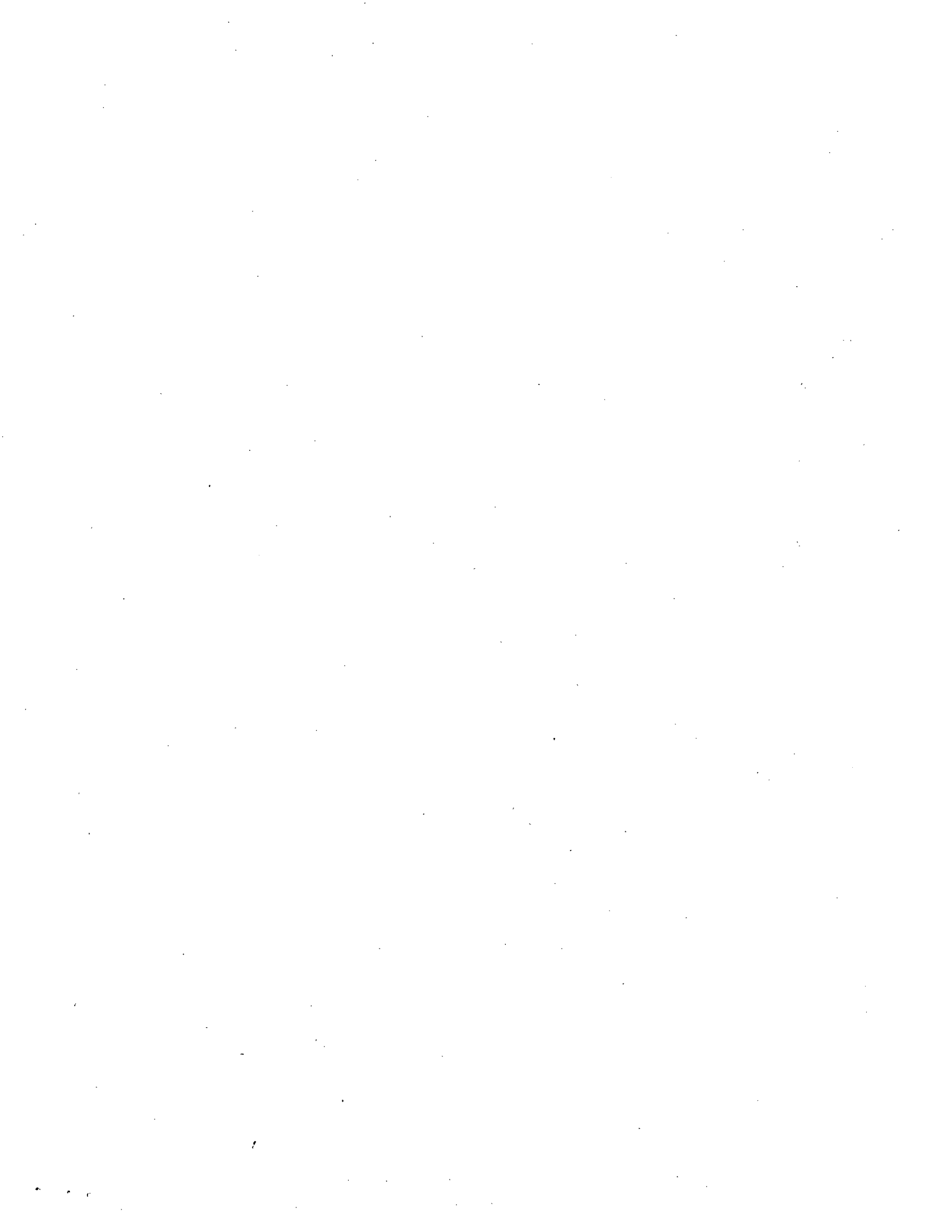
77-143

DATE OF MANUFACTURE

12-22-57

REASON FOR CONVERSION

1-1-58





AVS Quality Management System

QPM #
AFS-AGL-MSP-F024

Revision
0

Title: Request for Replacement Airworthiness Certificate

Date: May 29, 2009

Page 1 of 1

Date: 12-7-2017

David S Hanus.

2715 Halstead Lane. Mound. MN. 55364

Print name

Address

Certify that I am the owner of:

N 50227

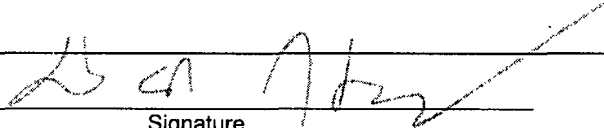
Make Stinson

Model V-77

S/N 77-143

, and hereby request a replacement airworthiness certificate.

The replacement certificate is requested because: Old certificate is on an obsolete form.


Signature

Replacement

(1) The FAA may issue a replacement airworthiness certificate when a certificate is declared lost, has been mutilated, or is no longer legible. The replacement airworthiness certificate shall carry the original issue date of the certificate being replaced, preceded by a capital "R" in the date block of the certificate. Additionally, replacement certificates will be issued when the aircraft registration number has been changed. In this case a new application for airworthiness certification is not required.

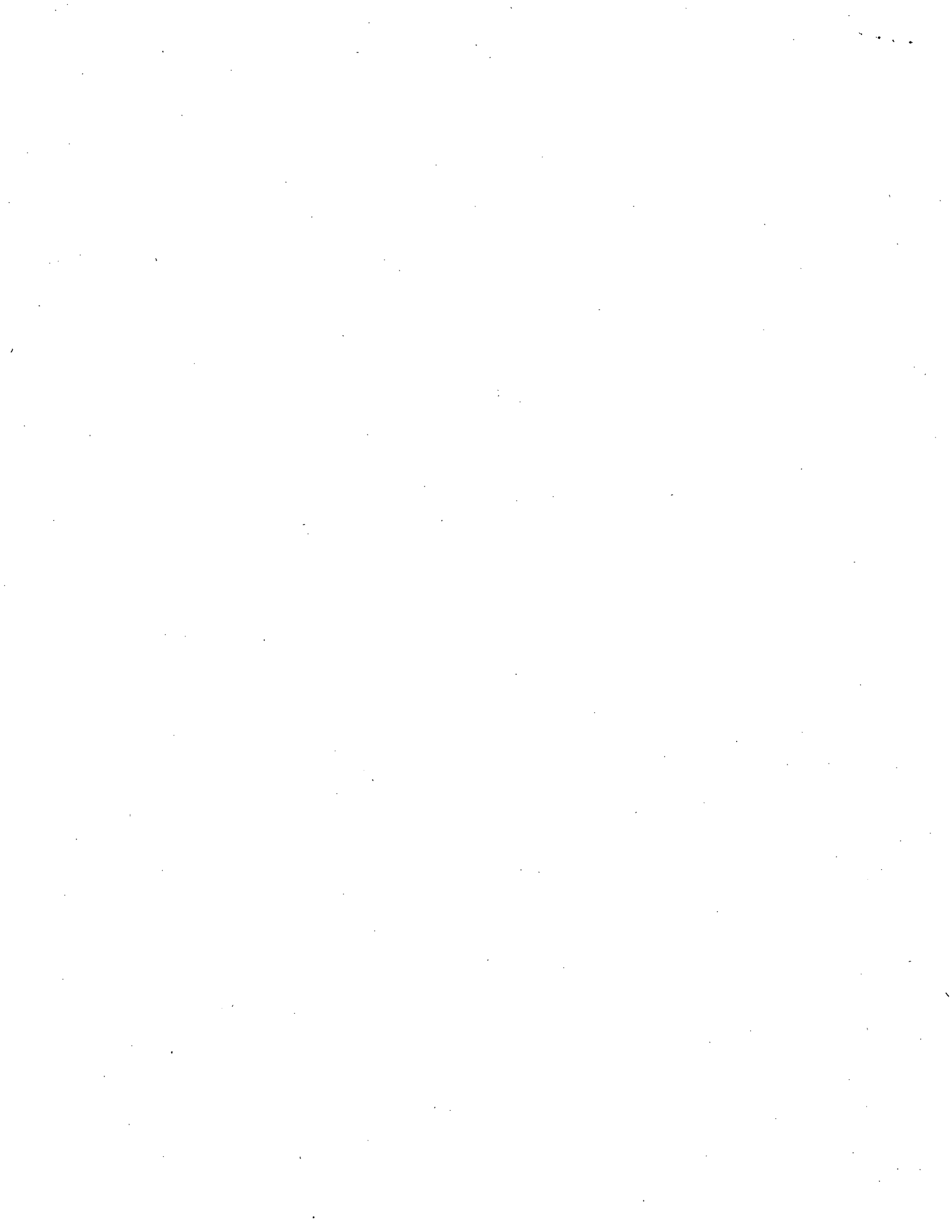
(2) Request for a replacement certificate will be made by a certified statement from the registered owner or certificate operator to the applicable certification office. The certifying statement should include the registration (N) number, serial, and make/model of the aircraft. Replacement of airworthiness certificates shall not be accomplished by verbal agreement with the assigned inspectors or through procedures contained in air carrier's manuals that allow the continued operation of an aircraft without an airworthiness certificate. Such actions are contrary to §§ 91.203 121.153(a)(1), and CFR part 135, Operating Requirements: Commuter and On Demand Operations (part 135), § 135.25(a).

(3) A replacement airworthiness certificate may be issued without supporting documentation from AFS-750 if the date of issuance and the airworthiness classification and/or category of the lost or mutilated certificate can be positively established from the aircraft records, or from the remains of the certificate, the FAA inspector will request copies of the appropriate data (such as the application form or previously issued airworthiness certificate) from AFS-750

(4) Before issuing a replacement certificate, the FAA shall review the aircraft records, and if necessary, inspect the aircraft to ensure the applicant's request is justified, and the aircraft is eligible for the airworthiness certificate requested.

(5) A copy of the replacement certificate must be forwarded to AFS-750.

o/w 12/12/17
SET





US Department of Transportation
Federal Aviation Administration

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

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

Electronic Tracking Number

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INSTRUCTIONS: Print or type all entries. See Title 14 CFR §43.9, Part 43 Appendix B, and AC 43.9-1 (or subsequent revision thereof) for instructions and disposition of this form. This report is required by law (49 U.S.C. §44701). Failure to report can result in a civil penalty for each such violation. (49 U.S.C. §46301(a))

1. Aircraft	Nationality and Registration Mark USA N50227	Serial No. 77143	
	Make Stinson	Model Vultee V-77	Series
2. Owner	Name (As shown on registration certificate) Hanus, David S		Address (As shown on registration certificate)
			Address 2715 Halstead Ln
			City Mound State MN
			Zip 55364-9404 Country USA

3. For FAA Use Only

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

6. Conformity Statement

A. Agency's Name and Address		B. Kind of Agency	
Name Wipaire, Inc		<input type="checkbox"/> U. S. Certificated Mechanic <input type="checkbox"/> Manufacturer	
Address 1700 Henry Ave.		<input type="checkbox"/> Foreign Certificated Mechanic C. Certificate No.	
City South Saint Paul State MN		<input checked="" type="checkbox"/> Certificated Repair Station	
Zip 55075 Country USA		<input type="checkbox"/> Certificated Maintenance Organization RJWR390K	

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

Extended range fuel per 14 CFR Part 43 App. B <input type="checkbox"/>	Signature/Date of Authorized Individual 11-3-2017
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7. Approval for Return to Service

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

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

Certificate or Designation No. RJWR390K	Signature/Date of Authorized Individual 11-3-2017
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NOTICE

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

8. Description of Work Accomplished

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

USA N50227

Nationality and Registration Mark

11-3-2017

Date

Removed a Garmin GTX-327 transponder.

Installed a Garmin GTX-335 Mode S Transponder with ADS-B Out in accordance with the Garmin GTX-335 installation manual, P/N 190-00734-10, Rev 8, and STC# SA01714WI. The Stinson Vultee V-77 is not included in the STC Approved Model List. STC# SA01714WI is the basis for this follow-on approval in accordance with FAA Memorandum dated March 2, 2016.

The installed ADS-B OUT system was shown to meet the equipment performance requirements of 14 CFR section 91.227.

The GTX-335 was mounted in the radio panel using the supplied mounting tray and hardware.

The power input for the GTX-335 is protected by a Klixon 7277-2-3 circuit breaker labeled "GTX 335" located in the instrument sub panel. Power is supplied by the avionics bus.

This system was installed in accordance with the manufacturer's installation manuals, AC 43.13-1B, paragraphs 11-2, 11-31, 11-32, 11-36, 11-136, 11-187, and AC 43.13-2B, chapters 1 and 3.

Post-installation ground tests were performed in accordance with the GTX-335 installation manual, P/N 190-00734-11, Rev. 5. The system operated normally.

The FAA Approved Airplane Flight Manual Supplement, P/N 190-00734-15, Rev 2, was inserted into the Airplane Flight Manual.

The Garmin GTX Pilot's Guide, P/N 190-01499-00, Rev. C, was placed in the aircraft.

The total continuous electrical load does not exceed 80% of the total alternator capacity.

Refer to Garmin Document Number 190-00734-11, Rev 5, for instructions for continued airworthiness.

The aircraft weight & balance, equipment list and logs were revised.

-----END-----

Additional Sheets Are Attached



US Department of Transportation
Federal Aviation Administration

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

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1. Aircraft	Nationality and Registration Mark N50227	Serial No. 77-143	
	Make Stinson	Model V-77	Series 77
	Name (As shown on registration certificate) Bailey, James H.		
2. Owner	Address (As shown on registration certificate) Address 409 20th Ave		
	City Brookings		State SD
	Zip 57006	Country _____	

3. For FAA Use Only

THE TECHNICAL DATA IDENTIFIED HEREIN HAS BEEN FOUND TO COMPLY WITH APPLICABLE AIRWORTHINESS REQUIREMENTS AND IS HEREBY APPROVED FOR USE ONLY ON THE ABOVE DESCRIBED AIRCRAFT, SUBJECT TO CONFORMITY INSPECTION BY A PERSON AUTHORIZED IN §43.7.

APPROVING FAA INSPECTOR **JUL 01 2010** DATE **RAP FSDO** DISTRICT OFFICE

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

6. Conformity Statement

A. Agency's Name and Address		B. Kind of Agency		C. Certificate No.	
Name William R. Ebbinga		<input checked="" type="checkbox"/>	U. S. Certificated Mechanic	001828527	
Address 58071 Richland Rd.		<input type="checkbox"/>	Foreign Certificated Mechanic		
City Griswold State IA		<input type="checkbox"/>	Certificated Repair Station		
Zip 51535 Country _____		<input type="checkbox"/>	Certificated Maintenance Organization		

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

Extended range fuel per 14 CFR Part 43 App. B <input type="checkbox"/>	Signature/Date of Authorized Individual William R. Ebbinga June 27, 2010
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7. Approval for Return to Service

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

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

Certificate or Designation No. 001828527	Signature/Date of Authorized Individual William R. Ebbinga July 10, 2010
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BRACKETT AERO FILTERS



FILTER REWORK KIT INSTRUCTIONS

KIT PART NO. BA-169

AIRCRAFT MODELS: STINSON V-77; FILTER No. 77-52012
APPROVAL: FAA FIELD APPROVAL REQUIRED.

Your new polyurethane air filter element has been designed to provide maximum dust collecting efficiency, good air flow, lightweight and economical replacement. The element has been treated with a special treatment called a wetted agent and is approximately 98% efficient. The special wetted agent is the secret to the efficiency of capturing dust and repelling water. The element has also been treated with a fire retardant. For the above reasons, replace the element each 200 hours of use or every 12 months or when 50% covered with foreign material. **DO NOT WASH AND REUSE.**

KIT CONTENTS

1 EA 12 3/8 X 7 7/8 #4 MESH SS SCREEN	1 EA BA-169E ELEMENT
1 EA 169-1 GRILL	6 EA AN500-8-6 FL HD SCREWS
A/R 3M #2216 ADHESIVE OR EQUIVALENT	A/R .020 SAFETY WIRE
6 EA ATS2-832 NUTCERTS(Opt:MS21059L08K)	3 EA 99836 CROSS PIN-Airloc
1 EA BA-169-3 DECAL	1 EA I-194 CONTINUED AIR

REWORK INSTRUCTIONS

- Step 1. Remove existing filter media (screen w/ flock) from Airmaze filter No. 77-52012.
- Step 2. Clean airfilter frame, inspect, and correct any abnormalities prior to refinishing.
- Step 3. Bond screen #4 mesh into frame upstream face (common to the airlocks on the filter frame), use 3M #2216 or equivalent. Follow adhesive manufacturing instructions. (Slight bending and restraightening of the screen is necessary for installation into the frame)
- Step 4. Center grill and back mark nutcert locations. Drill .250 dia. hole and install nutcerts p/n ATS2-832.
- Step 5. Install service decal p/n BA-169-3 on inside of filter frame surface.
- Step 6. A) Install polyurethane element BA-169E with the dense foam stenciled "Engine Side" towards the removable grill.
B) Install screws AN500-8-6 with safety wire.
C) Reinstall filter frame to scoop and complete installation as original.
- Step 7. Complete and submit 337 field approval form.

Servicing: Under normal conditions, replace filter element, PN BA-169E, after 200 hours use or one year intervals. Under severely dusty conditions, check daily and replace when element is 50% covered with foreign material.

For continued airworthiness reference Form I-194.

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BRACKETT AIR FILTER DOCUMENT I-194

PLACE IN AIRCRAFT RECORDS

CONTINUED AIRWORTHINESS INSPECTION
 REQUIREMENTS AS PER FAR 23.1529
 AND GENERAL PROCEDURES OF PART 43

INSPECTION INTERVALS: Pre-flight inspections, engine backfire inspection, 100 hour inspections, annual inspections, filter element replacements.

INSPECTION PROCEDURES

- A. Pre-flight inspection: Per Pilots Operating Handbook, check filter assembly for security, damage or 50% contamination of element face. If found report to maintenance personnel prior to flight.
- B. Engine start-up backfire inspection: Prior to flight, check the entire intake system for security or damage. If a fire was present, the downstream face of the foam element will show erosion. If any irregularities are found see Chart I and also refer to the Aircraft Maintenance Manual for the intake system.
- C. At element replacement intervals: With the element removed, inspect the filter grill, filter frame, filter mountings and entire intake system for security, wear and any deformation. Note: On filter assemblies with gaskets, visually inspect inside and outside of frame for any signs of gasket looseness, movement or deterioration. If found refer to Chart I or the proper maintenance manual for your aircraft or component.

PART			INSTRUCTIONS
	REPLACE	REWORK	
FRAME	X		COMPLETE NEW ASSEMBLY
GASKET	X		ON FILTER FRAME, REMOVE OLD NEOPRENE GASKET AND ALL TRACES OF ADHESIVE DOWN TO A CLEAN ANODIZED FRAME SURFACE. USE ADHESIVE 3M#847 OR DOW CORNING RTV-732. COAT ENTIRE MATING SURFACE (GASKET TO FRAME). APPLY ADHESIVE FOLLOWING MANUFACTURER'S LABEL DIRECTIONS. WHEN FRAME AND GASKET ARE PLACED TOGETHER, CLAMP OR WEIGHT DOWN AT .75 LB./SQ. IN. OF CONTACT AREA. ALLOW TO CURE 24 HOURS PRIOR TO INSTALLATION. PRIOR TO REINSTALLATION OF FILTER, CHECK AIRBOX MATING SURFACE FOR IRREGULARITIES. IF FOUND, CORRECT PER MANUFACTURER'S REQUIREMENTS. UPON REINSTALLATION CHECK THAT THE GASKET MAKES 100% CONTACT. THE GASKET SHOULD BE COMPRESSED 50% FOR OPTIMUM SEAL.
GRILL	X		REPLACE WITH NEW GRILL
HARDWARE	X		REPLACE UNSERVICEABLE WITH NEW
SCREEN	X		COMPLETE NEW ASSEMBLY
SCREEN/GASKET	X		COMPLETE NEW ASSEMBLY (ASSEMBLIES USING SCREEN GASKETS PRE 1981; BA-4106, BA-5110 AND BA-8110.)
ELEMENT	X		REPLACE ELEMENT

The first part of the document discusses the importance of maintaining accurate records of all transactions. It emphasizes that every entry should be supported by a valid receipt or invoice. This ensures transparency and allows for easy verification of the data.

In the second section, the author outlines the various methods used to collect and analyze the data. This includes both primary and secondary data collection techniques. The primary data was gathered through direct observation and interviews, while secondary data was obtained from existing reports and databases.

The third section provides a detailed description of the data analysis process. This involves identifying trends, patterns, and anomalies within the data set. Statistical tools and software were used to facilitate this process, ensuring that the results are both accurate and reliable.

Finally, the document concludes with a summary of the findings and their implications. It highlights the key insights gained from the study and offers recommendations for future research and practice. The author notes that while the current study provides valuable information, there are still several areas that require further investigation.



US Department of Transportation
Federal Aviation Administration

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

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1. Aircraft	Nationality and Registration Mark N50227	Serial No. 77-143	
	Make Stinson	Model V-77	Series 77
	Name (As shown on registration certificate) Bailey, James H.		
2. Owner	Address (As shown on registration certificate) Address 409 20th Ave		
	City Brookings		State SD
	Zip 57006	Country _____	

3. For FAA Use Only

THE TECHNICAL DATA IDENTIFIED HEREIN HAS BEEN FOUND TO COMPLY WITH APPLICABLE AIRWORTHINESS REQUIREMENTS AND IS HEREBY APPROVED FOR USE ONLY ON THE ABOVE DESCRIBED AIRCRAFT, SUBJECT TO CONFORMITY INSPECTION BY A PERSON AUTHORIZED IN §43.7.

JUL 01 2010
 APPROVING FAA INSPECTOR DATE RAP FSDO DISTRICT OFFICE

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

6. Conformity Statement

A. Agency's Name and Address		B. Kind of Agency	
Name William R. Ebbinga	Address 58071 Richland Rd. City Griswold State IA Zip 51535 Country _____	<input checked="" type="checkbox"/> U. S. Certificated Mechanic	Manufacturer
		<input type="checkbox"/> Foreign Certificated Mechanic	C. Certificate No.
		<input type="checkbox"/> Certificated Repair Station	001828527
		<input type="checkbox"/> Certificated Maintenance Organization	

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

Extended range fuel per 14 CFR Part 43 App. B <input type="checkbox"/>	Signature/Date of Authorized Individual William R. Ebbinga June 27, 2010
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7. Approval for Return to Service

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

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

Certificate or Designation No. 001828527	Signature/Date of Authorized Individual William R. Ebbinga July 10, 2010
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NOTICE

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

8. Description of Work Accomplished

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

N50227

June 27, 2010

Nationality and Registration Mark

Date

1. Introduction: Install an alternator system in place of the original generator system.
2. Description: Removed the original equipment Eclipse Generator and voltage regulator from the Lycoming R-680-13 engine. Installed a JASCO alternator model 6565T and JASCO voltage regulator model J12M20 in accordance with a follow along approval to STC SA1809SW. Electrical wiring completed in accordance with wiring diagram Skytronics, Inc. P1001.
3. Control: No change to control of the alternator system.
4. Servicing information: See Skytronics, Inc. 6555-1 kit instructions.
5. Maintenance Instructions: See Skytronics, Inc. 6555-1 kit instructions.
6. Trouble shooting information: See Skytronics, Inc. 6555-1 kit instructions.
7. Removal and replacement information: See Skytronics, Inc. 6555-1 kit instructions.
8. Diagrams: Wiring diagram Skytronics, Inc. P1001.
9. Special inspection requirements: See Skytronics, Inc. 6555-1 kit instructions.
10. Application of protective treatments: N/A.
11. Data: Reference Skytronics, Inc. Top Installation Drawings.
12. List of special tools: None required.
13. For commuter category aircraft: N/A.
14. Recommended overhaul periods: A recommended overhaul period of 1000 hours.
15. Airworthiness Limitation Section: the Alternator limitation is "On Condition".
16. Revision: Any revisions to this FAA form 337/field approval must be accepted by the FAA.

Attached: copy of previously approved 337 for N18285 dated May 17, 1994, copy of previously approved 337 for N15117 dated October 16, 2008, copy of previously approved 337 for N67070 dated February 20, 2003. STCSA2015WE and kit instructions including wiring diagrams.

Additional Sheets Are Attached

REVISIONS

LTR	DESCRIPTION	DATE	APPR
A	CLARIFICATION OF WIRING DIAGRAM, FOR J12M20SP TYPICAL EXISTING CIRCUIT	2-21-93	<i>[Signature]</i>

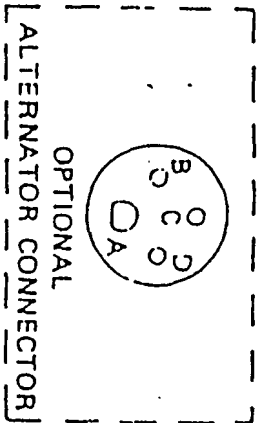
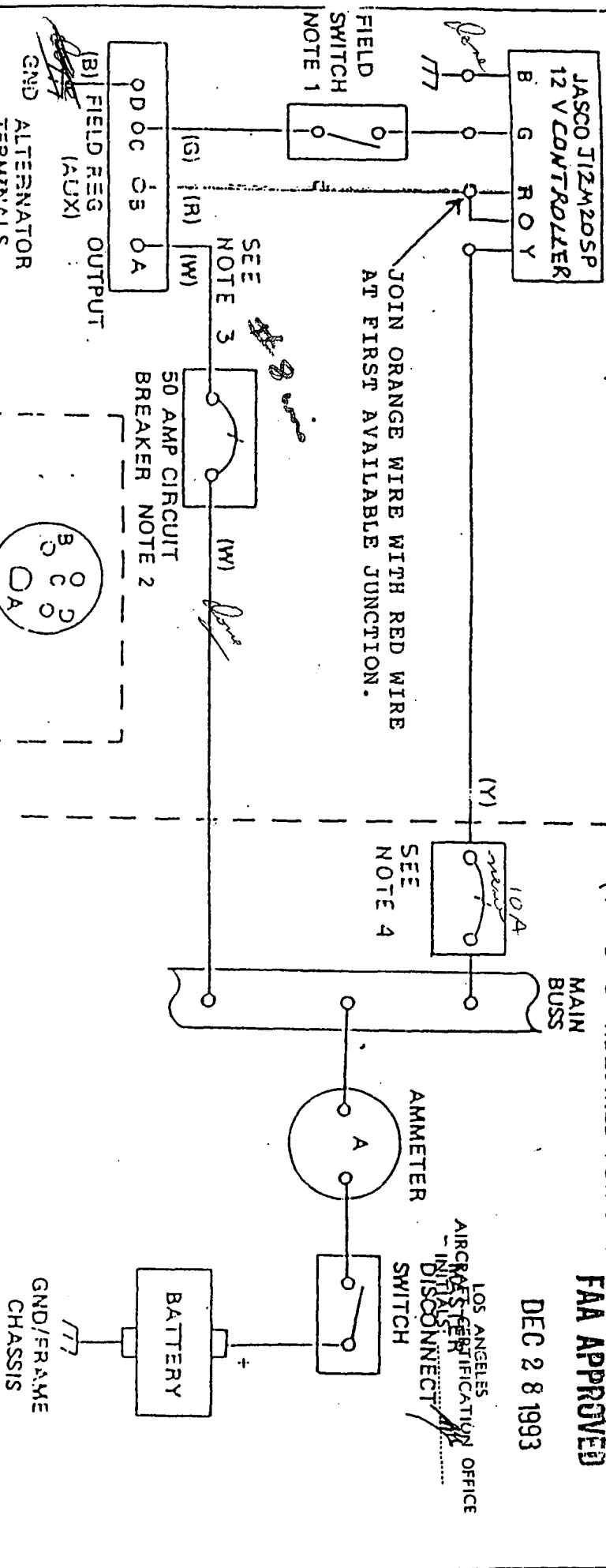
CIRCUIT REQUIRED FOR INSTALLATION
(ALL 18 AWG EXCEPT OUTPUT)

(NOTE 3 REQUIRED FOR 50 AMP CAPACITY)

FAA APPROVED

DEC 28 1993

LOS ANGELES
AIRCRAFT CERTIFICATION OFFICE
INITIALS
DISCONNECT



KYTRONICS, INC.
EL SEGUNDO, CALIF.

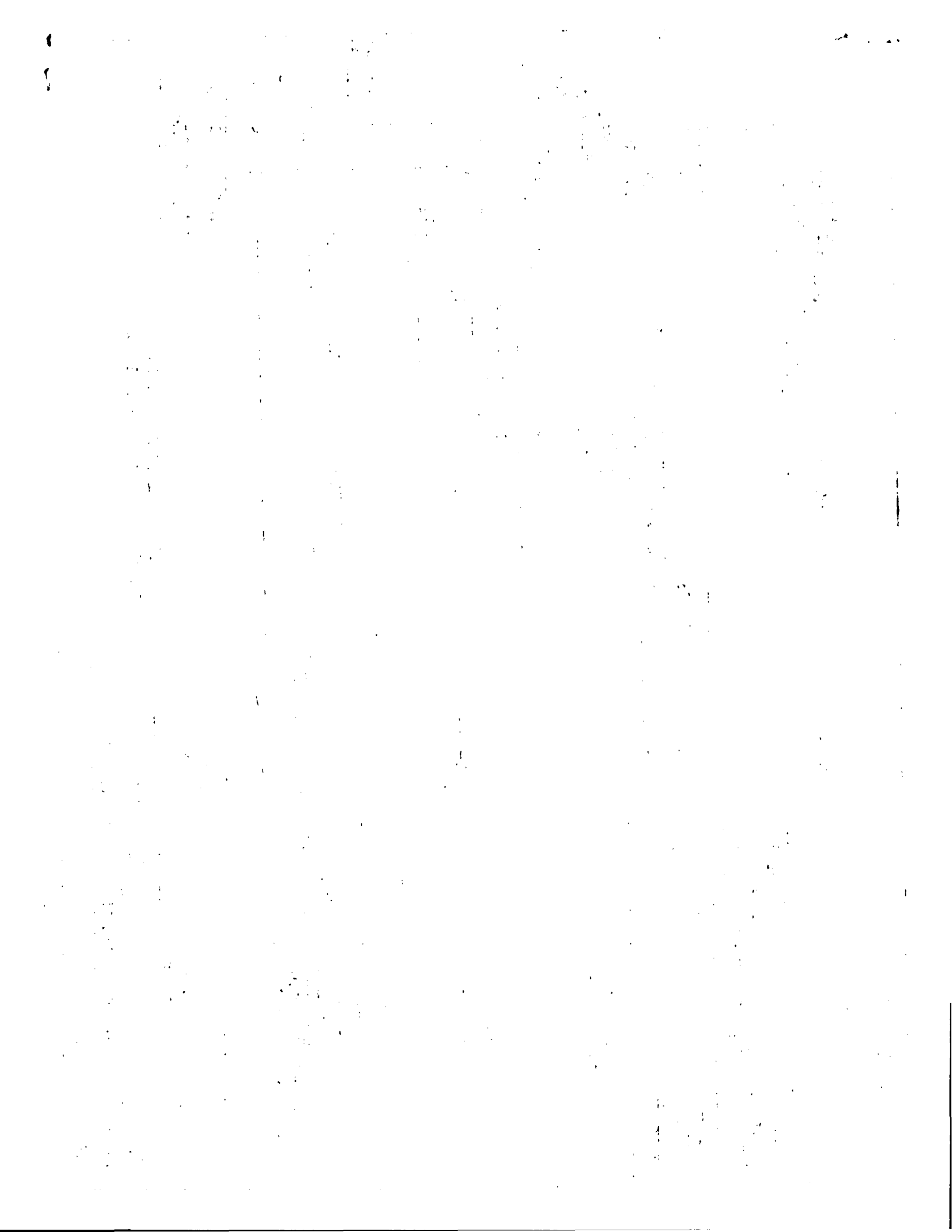


NOTES:

- COMBINATION FIELD SW. & 5 AMP CIRCUIT BREAKER NOT SUPPLIED. POTTER-BRUMFIELD P/N W31X2M16-5 RECOMMENDED.

MATERIAL	DATE 12-21-93	DWN. BY
SPEC.	SCALE	APPR BY <i>[Signature]</i>
FINISH	DIMENSION TOLERANCE UNLESS OTHERWISE SPECIFIED	

INSTALLATION WIRING FOR 12 V. 50 A. NEG GND ALTERNATOR



REVISIONS

LTR	DESCRIPTION	DATE	APPR
A	CLARIFICATION OF WIRING DIA-12-21-93 GRAM, FOR J12M2OSP		

2. 50 AMP CIRCUIT BREAKER NOT SUPPLIED.
POTTER-BRUMFIELD P/N W23X1A1G-50
RECOMMENDED.

3. FOR SINGLE WIRE ROUTING USE 8 AWG PER
MIL-W-5086. FOR CONDUIT OR BUNDLE
ROUTING USE 6 AWG, MIL-W-5086 OR EQUAL
AIRCRAFT QUALITY WIRE.

4. IN COMPLIANCE WITH FAA REGULATIONS,
REGULATOR CIRCUIT IS TO BE PROTECTED
WITH CIRCUIT BREAKER OR FUSE LOCATED IN
CLOSE PROXIMITY TO BUSS. FUSE OR BREAKER
SIZE IN ACCORDANCE WITH THE FOLLOWING:

WIRE SIZE	CKT BKT	FUSE
22 GA	5 AMP	5 AMP
20 GA	7.5 AMP	5 AMP
18 GA	10 AMP	10 AMP
16 GA	15 AMP	10 AMP

meur (applies to 16 ga)

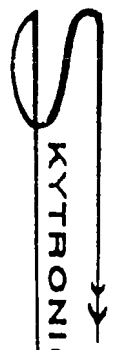
CIRCUIT BREAKER OR FUSE ASSEMBLY NOT SUPPLIED.

5. NEW VOLTAGE REGULATOR P/N J12M2OSP
INCORPORATES THE VOLTAGE PROTECTOR
SVP-3. THUS, THE J12M2OSP SUPER-
CEEDS AND OBSOLETES BOTH
THE J12M20 AND THE SVP-3 UNITS.

FAA APPROVED

DEC 28 1993

LOS ANGELES
AIRCRAFT CERTIFICATION OFFICE
INITIALS:

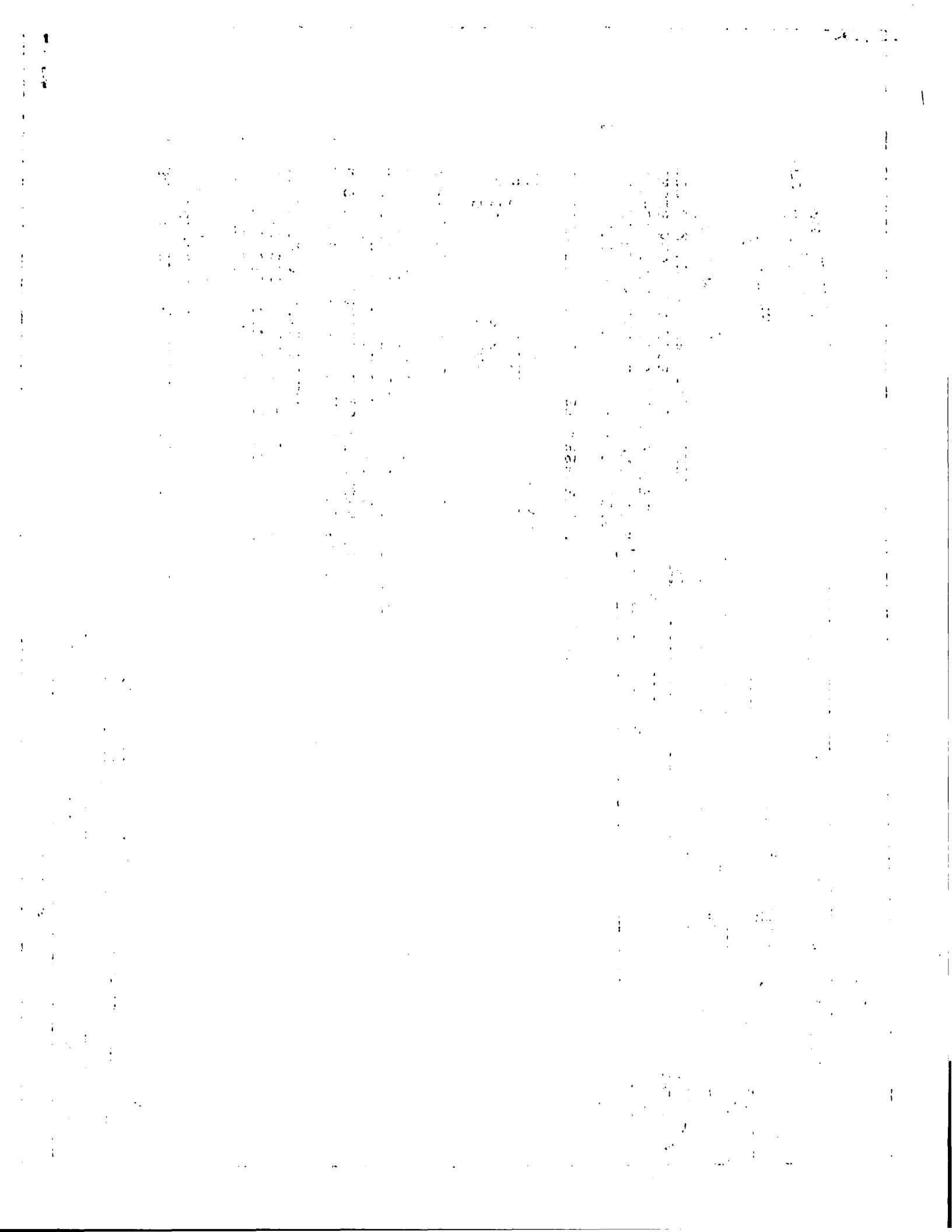



EL SEGUNDO, CALIF.



MATERIAL	DATE 12-21-93	OWN. BY C. B. [Signature]
SPEC.	SCALE	APPR. BY [Signature]
DIMENSION TOLERANCE UNLESS OTHERWISE SPECIFIED		

INSTALLATION WIRING FOR 12V. 50A. NEG GND ALTERNATOR



 <h2 style="margin: 0;">MAJOR REPAIR AND ALTERATION</h2> <h3 style="margin: 0;">(Airframe, Powerplant, Propeller, or Appliance)</h3>		Form Approved OMB No. 2120-0020				
		For FAA Use Only				
		Office Identification				
INSTRUCTIONS: Print or type all entries. See FAR 43.9, FAR 43 Appendix B, and AC 43.13-1 (or subsequent revision thereof) for instructions and disposition of this form. This report is required by law (49 U.S.C. 1421). Failure to report can result in a civil penalty not to exceed \$1,000 for each such violation (Section 901 Federal Aviation Act 1958).						
1. Aircraft	Make Stinson Serial No. 9808	Model SR-6B Nationality and Registration Mark NC15117				
2. Owner	Name (As shown on registration certificate) Wilson Charles F Wilson Todd B	Address (As shown on registration certificate) 151 Loretta Lane Luthersville, GA 30251				
3. For FAA Use Only THE DATA IDENTIFIED HEREIN CONFORMS WITH APPLICABLE FEDERAL REQUIREMENTS AND IS APPROVED ONLY FOR THE PURPOSES STATED HEREIN. SUBJECT TO CONFORMITY INSPECTION AND REPORTING REQUIREMENTS. DATE: <u>10/14/2009</u> Signature: <u>[Signature]</u> IATE FAA INSPECTOR (M) 100						
4. Unit Identification						
Unit	Make	Model	Serial No.	Repair	Alteration	
AIRFRAME	(As described in item 1 above)					X
POWERPLANT	Lycoming	R-680-E3A	41 1260		X	
PROPELLER	Type					
APPLIANCE	Manufacturer					
6. Conformity Statement						
A. Agency's Name and Address Howard Kiron 3010 80th Ave SF Clara City MN 56222	D. Kind of Agency <input checked="" type="checkbox"/> U.S. Certified Mechanic <input type="checkbox"/> Foreign Certified Mechanic <input type="checkbox"/> Certified Repair Station <input type="checkbox"/> Manufacturer	Certificate No. 2060899 IA				
7. Approval for Return to Service						
BY	FAA IR Standards Inspector FAA Designee:	Manufacturer Repair Station	Inspection Authorization Person Approved by Transport Canada Airworthiness Group	Other (Specify)		

712-769-2426

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 Jasco Alternator System

2. Installed a Jasco Alternator model 6565T and J12M20SF Voltage Regulator System as per STC SA 1809SW supplied by Page Industries of Oklahoma Inc. PO Box 191, Yukon, Oklahoma, 73099, using drawing # 5032, Rev. C dated March 15, 1974, supplied by manufacturer.

System has a 50 AMP rating

Calculated load is:

FLD	5 Amp.
Radio	6 Amp
TXP	3 Amp.
Nav I	10 Amp.
Land Lite	20 Amp

Max Cont Load 43 Amp

- 3. N/A
- 4. N/A
- 5. Ref to Manufacturer Instruction.
- 6. Ref to Manufacturer Instruction
- 7. Ref to Manufacturer Instruction
- 8. N/A
- 9. N/A
- 10. N/A
- 11. N/A
- 12. N/A
- 13. N/A
- 14. No additional overhaul time limitations
- 15. N/A
- 16. N/A
- 17. N/A
- 18. Recorded in Aircraft Log Book

The End

Additional Sheets Are Attached

U.S. GPO: 1989 O-265-111



U.S. Department
of Transportation
Federal Aviation
Administration

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

Form Approved
OMB No. 2120-0020
For FAA Use Only
Office Identification
FAA-AAL-FSDO-03

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

1. Aircraft	Make Stinson Serial No. 8776	Model JR SR Nationality and Registration Mark N18285
2. Owner	Name (As shown on registration certificate) Columbia Mara Lee	Address (As shown on registration certificate) HC 32 Box 66 57-A1 Wasilla AK 99654

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

MAY 17 1994
Date
Butter Rogers
Signature
FAA-AAL-FSDO-3

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

6. Conformity Statement	
A. Agency's Name and Address Grant W. Chapman PO Box 873769 Wasilla AK 99657	B. Kind of Agency <input checked="" type="checkbox"/> U.S. Certificated Mechanic <input type="checkbox"/> Foreign Certificated Mechanic <input type="checkbox"/> Certificated Repair Station <input type="checkbox"/> Manufacturer
	C. Certificate No. 574245828

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: **04/09/94** Signature of Authorized Individual: *[Signature]*

7. Approval for Return To Service			
Pursuant to the authority given persons specified below, the unit identified in Item 4 was inspected in the manner prescribed by the Administrator of the Federal Aviation Administration and is <input checked="" type="checkbox"/> APPROVED <input type="checkbox"/> REJECTED			
BY	FAA Part 135 Standards Inspector	Manufacturer	Inspection Authorization Other (Specify)
	FAA Designee	Repair Station	
Date of Approval or Rejection 05/17/94		Certificate or Designation No. 574245828	Signature of Authorized Individual <i>Grant W. Chapman</i>

NOTICE


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

B. Description of Work Accomplished

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

Installed skytronics 50 Amp Aht.
all work Done per skytronics Drawing
P1001. For Reference Refer to Drawing
Provided. wt-N-Bal. and equip list
Revised

P/W 985

 US Department of Transportation Federal Aviation Administration	MAJOR REPAIR AND ALTERATION (Airframe, Powerplant, Propeller, or Appliance)	Form Approved OMB No. 2120-0020
		For FAA Use Only
		Office Identification

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

1. Aircraft	Make STINSON	Model V-77
	Serial No. V-77-13	Nationality and Registration Mark N 67070
2. Owner	Name (As shown on registration certificate) GUY BUSHMAN	Address (As shown on registration certificate) 8411 KITTYHAWK AVE. LOS ANGELES, CA 90045

3. For FAA Use Only

Notwithstanding to whom this repair and alteration certificate is issued, it shall be subject to the provisions of Part 43 of the Federal Aviation Regulations and to the provisions of the Federal Aviation Act of 1958, as amended, and to the provisions of any subsequent regulations or orders issued by the Administrator of the Federal Aviation Administration.

2/20/03
 Signature: *[Signature]*
 SAC, FSDD

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

ATTACHMENT

6. Conformity Statement

A. Agency's Name and Address J. HERRON 12651 TUNSTAIL GARDEN GROVE CA 92845	B. Kind of Agency <input checked="" type="checkbox"/> U.S. Certified Mechanic	C. Certificate No. 1421203
	<input type="checkbox"/> Foreign Certified Mechanic	
	<input type="checkbox"/> Certified Repair Station	
	<input type="checkbox"/> Manufacturer	

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

Date 2/20/03	Signature of Authorized Individual <i>[Signature]</i>
------------------------	--

7. Approval for Return To Service

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

BY	FAA Fit. Standards Inspector	Manufacturer	<input checked="" type="checkbox"/> Inspection Authorization	Other (Specify)
	FAA Designee	Repair Station	Person Approved by Transport Canada Airworthiness Group	
Date of Approval or Rejection 2/20/03	Certificate or Designation No. 1421203	Signature of Authorized Individual <i>[Signature]</i>		

NOTICE

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

8. Description of Work Accomplished

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

ALTERNATOR INSTALLATION

- 1) **Eclipse Generator, Model 11, Type 309, Weight 24 pounds, REMOVED.**
 - 2) **Jasco Alternator, Model 6555-1, S/N 785-15833, 50 Amp, 14 Volt, Weight 11 pounds, INSTALLED.**
 - 3) **Jasco Regulator, P/N J12M-20, INSTALLED.**
 - 4) **50 Amp Circuit Breaker, supplied by Potter Brumfield, and 5 Amp Field Breaker, P/N 5-48-205-17 INSTALLED.**
 - 5) **Wiring Diagram, Drawing #P1001, Dated 10/10/78, USED FOR INSTALLATION.**
 - 6) **Instructions for continued Airworthiness, Alternator & Wiring to be Inspected for Security & Operations each 100 Hours per 14CFR Part 43, Appendix D.**
 - 7) **Weight & Balance and Equipment List REVISED.**
- END**

Additional Sheets Are Attached



US Department of Transportation
Federal Aviation Administration

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

Form Approved
OMB No. 2120-0020

For FAA Use Only

Office Identification

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

1. Aircraft	Make Stinson	Model V-77
	Serial No. 77-143	Nationality and Registration Mark N50227
2. Owner	Name (As shown on registration certificate) Bailey James H.	Address (As shown on registration certificate) 409 20th Ave Brookings SD 57006

3. For FAA Use Only

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

6. Conformity Statement

A. Agency's Name and Address William R Ebbinga 58071 Richland Rd Griswold IA 51535	B. Kind of Agency <input checked="" type="checkbox"/> U.S. Certificated Mechanic <input type="checkbox"/> Foreign Certificated Mechanic <input type="checkbox"/> Certificated Repair Station <input type="checkbox"/> Manufacturer	C. Certificate No. 1828527
---	--	-------------------------------

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

Date June 27, 2010	Signature of Authorized Individual William A Ebbinga
-----------------------	---

7. Approval for Return To Service

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

BY	FAA Fit. Standards Inspector	Manufacturer	x	Inspection Authorization	Other (Specify)
	FAA Designee	Repair Station		Person Approved by Transport Canada Airworthiness Group	
Date of Approval or Rejection June 27, 2010		Certificate or Designation No. A&P1828527 AI	Signature of Authorized Individual William A Ebbinga		



US Department of Transportation
Federal Aviation Administration

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

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

Electronic Tracking Number

For FAA Use Only

INSTRUCTIONS: Print or type all entries. See Title 14 CFR §43.9, Part 43 Appendix B, and AC 43.9-1 (or subsequent revision thereof) for instructions and disposition of this form. This report is required by law (49 U.S.C. §44701). Failure to report can result in a civil penalty for each such violation. (49 U.S.C. §46301(a))

1. Aircraft	Nationality and Registration Mark N 50227	Serial No. 77-143	
	Make Stinson	Model V-77	Series
2. Owner	Name (As shown on registration certificate) Bailey James H.		Address (As shown on registration certificate) Address 409 20th Ave
			City Brookings State SD Zip 57006 Country USA

3. For FAA Use Only

4. Type		5. Unit Identification			
Repair	Alteration	Unit	Make	Model	Serial No.
<input type="checkbox"/>	<input type="checkbox"/>	AIRFRAME	_____	(As described in Item 1 above)	_____
<input type="checkbox"/>	<input checked="" type="checkbox"/>	POWERPLANT	LYCOMING	R-680-13	11383
<input type="checkbox"/>	<input type="checkbox"/>	PROPELLER			
<input type="checkbox"/>	<input type="checkbox"/>	APPLIANCE	Type		
			Manufacturer		

6. Conformity Statement

A. Agency's Name and Address		B. Kind of Agency	
Name William R Ebbinga		<input checked="" type="checkbox"/> U. S. Certificated Mechanic	Manufacturer
Address 58071 Richland RD		<input type="checkbox"/> Foreign Certificated Mechanic	C. Certificate No.
City Griswold State IA		<input type="checkbox"/> Certificated Repair Station	1828527
Zip 51535 Country _____		<input type="checkbox"/> Certificated Maintenance Organization	

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

Extended range fuel per 14 CFR Part 43 App. B <input type="checkbox"/>	Signature/Date of Authorized Individual <i>William R Ebbinga</i> June 27, 2010
--	--

7. Approval for Return to Service

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

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

Certificate or Designation No. A&P 1828527-AI	Signature/Date of Authorized Individual <i>William R Ebbinga</i> June 27, 2010
---	--

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.)

N 50227

June 27, 2010

Nationality and Registration Mark

Date

1. AIRWOLF remote oil filters have no moving parts.
2. Installed AIRWOLF remote mounted oil filter kit AFC-K007 on R-680-13 Lycoming Engine of 300 hp. SN 11383 Installation I/A/W AFC-K007-M1 Airwolf Maintenance Instructions and AML for STC SA00024NY page 7 dated May 23 1997.
3. n/a
4. Access by opening left engine cowl.
5. See manufactures instructions.
6. See manufactures instructions.
7. See manufactures instructions.
8. n/a
9. n/a
10. n/a
11. n/a
12. n/a
13. n/a
14. n/a
15. n/a
16. n/a

Included in new weight and balance June 27 2010 New Empty weight 2745 CG 86.65 Moment 237858.15

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

Additional Sheets Are Attached

Department of Transportation — Federal Aviation Administration
Supplemental Type Certificate

Number SA00024NY

This certificate, issued to Airwolf Filter Corp.
15369 Madison Road
Middlefield, Ohio 44062

certifies that the change in the type design for the following product with the limitations and conditions therefor as specified hereon meets the airworthiness requirements of Part 3/23 of the Civil Air/Federal Aviation Regulations.

Original Product — Type Certificate Number: *(See attached FAA Approved Model List
Make: *(AML) No. SA00024NY for list of approved
Model: *airplane models and applicable installation
*instructions)

Description of Type Design Change:

Installation of Airwolf remote mounted engine oil filter kit AFC-K007 on single and multi engine fixed wing light aircraft incorporating Lycoming reciprocating engines of 450 horsepower or less.

Limitations and Conditions:

- 1) Engine compartment firewall for mounting oil filter shall be of .021 inch minimum thickness ASTM A527 galvanized steel or equivalent (Ref. CAR 3.624 (b), FAR 23.1191(h).
- 2) Airwolf Maintenance Instructions AFC-K007-MI dated March 30, 1993 are required with this installation.
(See STC Continuation Sheet, Page 2)

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 8, 1993

Date issued:

Date of issuance: July 22, 1993

Date amended: 11/11/93, 2/3/94, 5/12/94, 11/22/94

By direction of the Administrator 5/25/95, 2/15/96, 5/23/97



Anthony Socias (Signature)
Manager, Airframe and Propulsion Branch
New York Aircraft Certification Office

(Title)

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

This certificate may be transferred in accordance with FAR 21.47.

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

Number SA00024NY

Date of Amendment: May 23, 1997

3. This approval should not be extended to aircraft of this model on which other previously approved modifications are incorporated unless it is determined that the relationship between this change and any of those other previously approved modifications, including changes in type design, will introduce no adverse effect upon the airworthiness of the aircraft. A copy of this Certificate must be maintained as part of the permanent records for the modified aircraft.

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

Approved Model (AML) SA00024NY
 Airwolf Filter Corp.

For
 Installation Of Remote Mount Oil Filter

Original Issue Date July 22, 1993

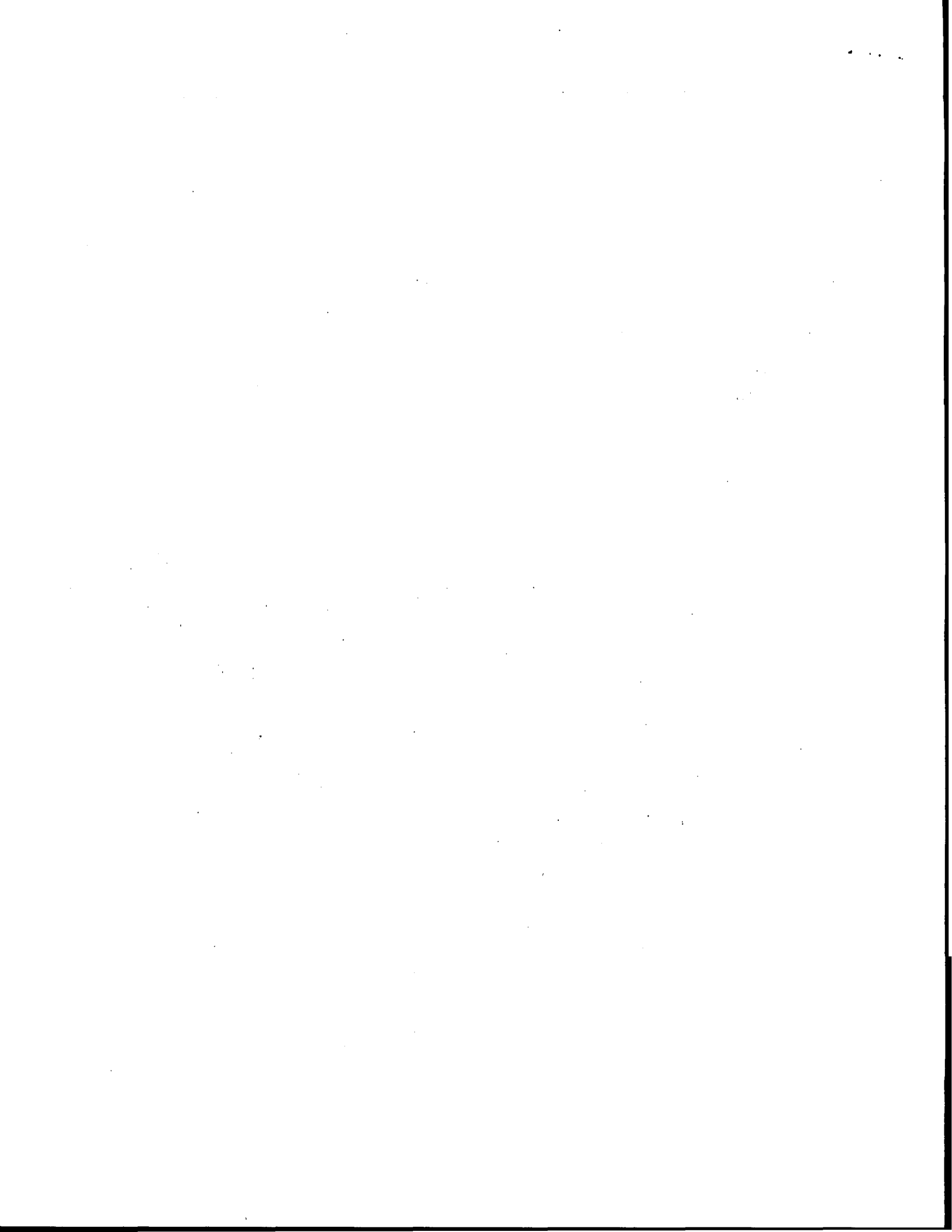
Item	Aircraft Make	Aircraft Model	Original Type Certificate No.	Installation Instructions	AML Amendment
22	Piper	PA-16, PA-16S	1A1	Airwolf Filter Corp. Remote Mounted Oil Filter Kit AFC-K007, Dated June 8, 1993	February 5, 1996
23	Bellanca	17-31A, 17-31ATC	A18CE	Airwolf Filter Corp. Remote Mounted Oil Filter Kit AFC-K007, Dated June 8, 1993	February 5, 1996
24	Stinson	V-77 (Army AT-19)	A-774	Airwolf Filter Corp. Remote Mounted Oil Filter Kit AFC-K007, Dated June 8, 1993	February 5, 1996
25	Piper	PA-20, PA-20S, PA-20 115", PA-20S" 115" PA-20"135", PA-20S"135"	1A4	Airwolf Filter Corp. Remote Mounted Oil Filter Kit AFC-K007, Dated June 8, 1993	February 5, 1996
26	Grunman	AA-5, AA-5A, AA-5B, AG-5B	A16EA	Airwolf Filter Corp. Remote Mounted Oil Filter Kit AFC-K007, Dated June 8, 1993	February 5, 1996
27	Taylorcraft	F21, F21A, F21B, F22, F22A, F22B, F22C, 19, F19	1A9	Airwolf Filter Corp. Remote Mounted Oil Filter Kit AFC-K007, Dated June 8, 1993	February 5, 1996

FAA Approved:

Anthony Socias

Anthony Socias
 Manager, Airframe and Propulsion Branch
 Aircraft Certification Office

Amended: May 23, 1997





US Department of Transportation
Federal Aviation Administration

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

Form Approved
OMB No. 2120-0020

For FAA Use Only

Office Identification

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

1. Aircraft	Make Stinson	Model V-77
	Serial No. 77-143	Nationality and Registration Mark N50227
2. Owner	Name (As shown on registration certificate) Bailey James H.	Address (As shown on registration certificate) 409 20th Ave Brookings SD 57006

3. For FAA Use Only

4. Unit Identification

5. Type

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

6. Conformity Statement

A. Agency's Name and Address William R Ebbinga 58071 Richland Rd Griswold IA 51535	B. Kind of Agency <input checked="" type="checkbox"/> U.S. Certificated Mechanic <input type="checkbox"/> Foreign Certificated Mechanic <input type="checkbox"/> Certificated Repair Station <input type="checkbox"/> Manufacturer	C. Certificate No. 1828527
---	--	-------------------------------

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

Date June 27 2010	Signature of Authorized Individual
----------------------	--

7. Approval for Return To Service

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

BY	FAA Flt. Standards Inspector	Manufacturer	X	Inspection Authorization	Other (Specify)
	FAA Designee	Repair Station		Person Approved by Transport Canada Airworthiness Group	
Date of Approval or Rejection June 27, 2010		Certificate or Designation No. A&P1828527 AI	Signature of Authorized Individual 		

NOTICE

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

8. Description of Work Accomplished

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

N 50227

June 27, 2010

Nationality and Registration Mark

Date

- 1. Removed both right and left master brake assemblies and main wheel expander brake and drum assemblies. Dismounted tires and tubes
- 2. Installed new master brake assemblies and wheel assemblies with Cleveland Brake Conversion Kit No. 199-167 in accordance with Redline Corporation Drawing No. H119 Dated Sept. 14, 1989 in Accordance with STC SA2691SO and FAA MEL No 199-167 Dated Mar 18 2004. Reinstalled tires and tubes , torqued wheel bolts, inflated to proper pressure according to TO 01-50KA-2
- 3. n/a
- 4. Service master brake reservoir with 5606 fluid located on left upper fire wall access thru left engine cowl.
- 5. Refer to Manufactures Instructions for Cleveland Brakes
- 6. n/a
- 7. Refer to Manufactures Instructions for Cleveland Brakes
- 8. n/a
- 9. n/a
- 10. n/a
- 11. n/a
- 12. n/a
- 13. n/a
- 14. n/a
- 15. n/a
- 16. n/a

Weight and Balance June 27 2010 EW 2745 CG 86.65 MOMENT 237858.15

END

Additional Sheets Are Attached

Supplemental Type Certificate

Number SA2691SO

This certificate issued to Springer Aerospace LTD.
9353 S.E. 72nd Avenue
Ocala, FL 34472

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

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

Date of application : September 22, 1988

Date reissued : March 18, 2004

Date of issuance : February 14, 1990

Date amended : May 2, 1994



By direction of the Administrator

Melvin D. Taylor
(Signature)

Melvin D. Taylor
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.

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.

		Original Type	
<u>Airplane Make</u>	<u>Airplane Model</u>	<u>Certification Number</u>	<u>Certification Basis</u>
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
Spartan Aircraft	7W	ATC 646	CAR 4a

MAR 18 2004

Date

Robert Caputo
 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.



US Department of Transportation
Federal Aviation Administration

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

Form Approved
OMB No. 2120-0020

For FAA Use Only
Office Identification

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

1. Aircraft	Make Stinson	Model V-77
	Serial No. 77-143	Nationality and Registration Mark N50227
2. Owner	Name (As shown on registration certificate) Bailey James H.	Address (As shown on registration certificate) 409 20th Ave Brookings SD 57006

3. For FAA Use Only

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

6. Conformity Statement

A. Agency's Name and Address William R Ebbinga 58071 Richland Rd Griswold IA 51535	B. Kind of Agency <input checked="" type="checkbox"/> U.S. Certificated Mechanic <input type="checkbox"/> Foreign Certificated Mechanic <input type="checkbox"/> Certificated Repair Station <input type="checkbox"/> Manufacturer	C. Certificate No. 1828527
---	--	-------------------------------

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

Date June 27, 2010	Signature of Authorized Individual Willard A Efr
-----------------------	---

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 Ft. Standards Inspector	Manufacturer	<input checked="" type="checkbox"/> Inspection Authorization	Other (Specify)
	FAA Designee	Repair Station	Person Approved by Transport Canada Airworthiness Group	
Date of Approval or Rejection June 27, 2010	Certificate or Designation No. A&P1828527 AI	Signature of Authorized Individual Willard A Efr		

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.)

N 50227

June 27, 2010

Nationality and Registration Mark

Date

1. Removed rotating beacon assembly.
2. Installed Aeroflash Model 156-0017 Strobe light system in accordance with PMA under FAR 23.1401,27.1401 and 91.33(c)3 as amended by Federal Docket 10129, Dated 10 July 1971 and Instruction Sheet 130-0071 dated 12-1-88 and AC 43.13-1A .
3. Power requirement 1.5 amps
4. Access thru rear baggage door , upper right side.
5. See manufactures instructions.
6. See manufactures instructions.
- 7 See manufactures instructions.
8. n/a
9. n/a
10. n/a
11. n/a
12. n/a
13. n/a
14. n/a
15. n/a
16. n/a

Included in new weight and balance June 27 2010 New Empty weight 2745 CG 86.65 Moment 237858.15

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

Additional Sheets Are Attached



US Department of Transportation
Federal Aviation Administration

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

Form Approved
OMB No. 2120-0020

For FAA Use Only

Office Identification

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

1. Aircraft	Make Stinson	Model V-77
	Serial No. 77-143	Nationality and Registration Mark N50227
2. Owner	Name (As shown on registration certificate) Bailey James H.	Address (As shown on registration certificate) 409 20th Ave. Brookings SD 57006

3. For FAA Use Only

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

6. Conformity Statement

A. Agency's Name and Address William R Ebbinga 58071 Richland Rd Griswold IA 51535	B. Kind of Agency <input checked="" type="checkbox"/> U.S. Certified Mechanic <input type="checkbox"/> Foreign Certified Mechanic <input type="checkbox"/> Certificated Repair Station <input type="checkbox"/> Manufacturer	C. Certificate No. 1828527
---	--	-------------------------------

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

Date June 27, 2010	Signature of Authorized Individual <i>William R Ebbinga</i>
-----------------------	--

7. Approval for Return To Service

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

BY	FAA Fit. Standards Inspector	Manufacturer	<input checked="" type="checkbox"/>	Inspection Authorization	Other (Specify)
	FAA Designee	Repair Station		Person Approved by Transport Canada Airworthiness Group	
Date of Approval or Rejection June 27, 2010		Certificate or Designation No. A&P1828527 AI	Signature of Authorized Individual <i>William R Ebbinga</i>		

NOTICE

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

8. Description of Work Accomplished

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

N50227

June 27 2010

Nationality and Registration Mark

Date

The following equipment was not found installed in N50227. SN 77-143

Bendix Radio at 61.05 aft of cg wt 7.5 lbs
 Mag-Sig 61.0 1.0
 GE Radio 75.0 10.5
 ADF Control 74.0 10.0
 ADF REC. 147.5 65.0
 ADF INV. 185.2

According to a 337 dated 8-3-1954 this equipment was installed at that date.

Was not installed when aircraft was inspected.

END

DATE	DESCRIPTION	REMARKS	INITIALS

Continuing Statement

Agency

Signature

Date

Signature

Date

Signature

Date

Signature

Date

Additional Sheets Are Attached



US Department of Transportation
Federal Aviation Administration

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

Form Approved
OMB No. 2120-0020

For FAA Use Only

Office Identification

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

1. Aircraft	Make Stinson	Model V-77
	Serial No. 77-143	Nationality and Registration Mark N50227
2. Owner	Name (As shown on registration certificate) Bailey James H.	Address (As shown on registration certificate) 409 20th Ave Brookings, SD 57006

3. For FAA Use Only

4. Unit Identification

5. Type

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

6. Conformity Statement

A. Agency's Name and Address William R Ebbinga 58071 Richland Rd Griswold IA 51535	B. Kind of Agency <input checked="" type="checkbox"/> U.S. Certificated Mechanic <input type="checkbox"/> Foreign Certificated Mechanic <input type="checkbox"/> Certificated Repair Station <input type="checkbox"/> Manufacturer	C. Certificate No. 1828527
--	--	--------------------------------------

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

Date June 27, 2010	Signature of Authorized Individual
------------------------------	--

7. Approval for Return To Service

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

BY	FAA Fit Standards Inspector	Manufacturer	<input checked="" type="checkbox"/> Inspection Authorization	Other (Specify)
	FAA Designee	Repair Station	Person Approved by Transport Canada Airworthiness Group	
Date of Approval or Rejection June 27, 2010		Certificate or Designation No. A&P1828527 AI	Signature of Authorized Individual 	

NOTICE

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

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

N50227

June 27 2010

Nationality and Registration Mark

Date

AIRWOLF OIL-AIR SEPERATER installed into engine breather system I/A/W- STC SA02268CH
Drawing AFC-W360 Rev C Date 08-28-06

AIRWOLF OIL-AIR SEPERATER located forward of fire wall on upper left side . Included in new empty weight.

See attachment for continued airworthiness.

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

Part No.	Description	Quantity	Unit	Weight	Balance Arm	Remarks

Part No.	Description	Quantity	Unit	Weight	Balance Arm	Remarks

Additional Sheets Are Attached

AIRWOLF AIRSEP INSTRUCTIONS FOR CONTINUED AIRWORTHINESS (ICA)

A/C Make : STINSON Model: U-77
 Serial#: 77-143 N#: 50227



This Instructions for Continued Airworthiness (ICA) meets the requirements of 14 CFR Part 23 Appendix G.

AIRWORTHINESS LIMITATIONS

- 1.0 The Airworthiness Limitations Section is FAA approved and specifies maintenance required under 43.16 and 91.403 of the Federal Aviation Regulations unless an alternate program has been FAA approved.
- 2.0 An STC incorporated in a larger field approval major alteration may have an airworthiness limitation. The FAA inspector should not establish, alter, or cancel an airwothiness limitation without coordinating with the appropriate FAA Type Certificate Holding Office.

SECTION	DESCRIPTION
1.	Introduction: The Airwolf AirSep system is a passive oil recovery system. There are no moving parts within the AirSep.
2.	Description: The AirSep is a device through which the process of coolescense, allows the oil that is normally expelled out the engine breather tube into the atmosphere, to be collected within the device for recovery at which time it is then returned back into the engine for reuse.
3.	Servicing information: N/A
4.	Maintenance Instructions: Clean inside of AirSep and oil return line to engine with Stoddard Solvent, Mineral Spirits or other suitable solvent, at each annual or 100 hr. inspection. In the event of a vacuum pump failure, disassemble Air/Oil Separator, thoroughly clean it and all lines, hoses and fittings and remove any traces of vacuum pump debris. Reassemble and lightly torque top nut only enough to prevent top and bottom can from rotating and center gasket to seal to prevent any leakage.
5.	Trouble shooting information: If any oil is seeping out of center seam of AirSep can, replace center gasket and lightly torque top nut only enough to prevent further leakage which in most cases is 12 in/lb. If breather oil is found on the belly of the aircraft, check that outlet duct is located as per the above installation instructions and is not located in or near the high velocity airstream.
6.	Removal and replacement information: Refer to the above Approved Installation Instructions for the AirSep kit.
7.	Diagrams: N/A
8.	Special inspection requirements: None
9.	Application of protective treatments: N/A
10.	List of special tools: N/A
11.	Recomended overhaul periods: N/A
12.	Revision: The latest revision of this ICA can be found at www.airwolf.com

The first part of the document discusses the importance of maintaining accurate records of all transactions and activities. It emphasizes that this is essential for ensuring transparency and accountability in the organization's operations.

Furthermore, it highlights the need for regular audits and reviews to identify any discrepancies or areas for improvement. This process should be conducted in a systematic and thorough manner to ensure the highest level of accuracy.

In addition, the document stresses the importance of clear communication and collaboration between all departments. This will help to ensure that everyone is working towards the same goals and objectives, and that any issues are identified and resolved promptly.

Overall, the document provides a comprehensive overview of the organization's current state and outlines the key areas for focus and improvement. It is hoped that these recommendations will be implemented effectively to ensure the organization's long-term success and growth.

The second part of the document details the specific actions and responsibilities of each department. It provides a clear roadmap for the implementation of the recommendations and sets out the timeline for completion.

For the Finance Department, the primary focus is on improving the accuracy and timeliness of financial reporting. This will involve implementing new software and processes to streamline the data collection and analysis process.

The Operations Department is tasked with enhancing the efficiency of the production process. This will be achieved through the implementation of lean manufacturing principles and the optimization of resource allocation.

The Marketing Department is responsible for increasing the organization's market share and brand awareness. This will be done through a combination of targeted advertising campaigns and strategic partnerships.

The HR Department is focused on attracting and retaining top talent. This will involve implementing a robust recruitment strategy and providing ongoing training and development opportunities for all employees.

The IT Department is responsible for ensuring the organization's information systems are secure and reliable. This will involve regular security audits and the implementation of disaster recovery plans.

The Legal Department is tasked with ensuring the organization's compliance with all applicable laws and regulations. This will involve regular legal reviews and the implementation of robust internal controls.

The Quality Control Department is responsible for ensuring the highest standards of product quality. This will involve implementing a comprehensive quality management system and conducting regular product inspections.

The Customer Service Department is focused on providing exceptional customer experiences. This will involve training staff in effective communication and problem-solving techniques, and implementing a robust customer feedback system.

The Research and Development Department is responsible for driving innovation and the development of new products. This will involve investing in research and development activities and fostering a culture of creativity and collaboration.

The Procurement Department is tasked with ensuring the organization's supply chain is efficient and cost-effective. This will involve negotiating favorable terms with suppliers and implementing robust risk management strategies.

The Project Management Office is responsible for overseeing the organization's strategic initiatives. This will involve developing a clear project plan, allocating resources effectively, and providing regular progress reports to senior management.

The Compliance Department is focused on ensuring the organization's adherence to all applicable laws and regulations. This will involve conducting regular compliance audits and implementing robust internal controls.

The Environmental, Social, and Governance (ESG) Department is responsible for managing the organization's environmental, social, and governance risks. This will involve implementing robust ESG policies and reporting on the organization's performance in these areas.

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

Number SA02268CH

This certificate issued to

Airwolf Filter Corp.
15369 Madison Road
Middlefield, OH 44062-8404

*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. SA02268CH for list of approved airplane and engine models and applicable airworthiness regulations.

Description of Type Design Change:

Installation of Airwolf Filter Corp. Air Oil Separator, in accordance with Airwolf Filter Corp. Installation Instructions as listed on AML No. SA02268CH, or later FAA approved revision.

Limitations and Conditions:

1. Compatibility of the design change with previously approved modifications must be determined by the installer.
2. A copy of this Certificate and FAA Approved Model List (AML) No. SA02268CH, Revision None, dated March 30, 2006, or later FAA approved revision, must be maintained as part of the permanent records for the modified aircraft.
3. If the holder agrees to permit another person to use this certificate to alter the product, the holder shall give the other person written evidence of that permission.

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 24, 2004

Date reissued:

Date of issuance: March 30, 2006

Date amended:



By direction of the Administrator

Charles L. Smalley
(Signature)

For Charles L. Smalley
Manager, Systems & Flight Test Branch
Chicago Aircraft Certification Office

(Title)

FAA APPROVED MODEL LIST (AML) NO. SA02268CH
AIRWOLF FILTER CORP
FOR INSTALLING
AIR OIL SEPARATOR KIT

Issue Date: March 30, 2006

AIRCRAFT MAKE	AIRCRAFT MODEL	ORIGINAL TYPE CERTIFICATE NUMBER	CERTIFICATION BASIS FOR ALTERATION	INSTALLATION INSTRUCTIONS		AML AMENDMENT DATE
				NUMBER	REVISION NO. AND DATE	
CESSNA AIRCRAFT COMPANY	337, 337A (USAF O2B), 337B, 337C, 337D, 337E, 337F, 337G, 337H, T337B, T337C, T337D, T337E, T337F, T337G, T337H, T337H-SP, P337H, M337B (USAF O2A)	A6CE	CAR 3, FAR-23	AFC-W360	C 08/28/2006*	08/28/2006
CESSNA AIRCRAFT COMPANY	401, 401A, 401B, 402, 402A, 402B, 402C, 411, 411A, 414, 414A, 421, 421A, 421B, 421C, 425	A7CE	CAR 3	AFC-W360	C 08/28/2006*	08/28/2006
CIRRUS-DESIGN CORP	SR20, SR22	A0009CH	FAR 23	AFC-W360	C 08/28/2006*	08/28/2006
COLUMBIA AIRCRAFT MANUFACTURING	LC40-550FG, LC42-550FG, LC41-550FG	A0003SE	FAR 23	AFC-W360	C 08/28/2006*	08/28/2006
COMMANDER AIRCRAFT COMPANY	112, 112TC, 112B, 112TCA, 114, 114A, 114B, 114TC	A12SO	FAR 23	AFC-W360	C 08/28/2006*	08/28/2006
CONSOLIDATED-VULTEE AIRCRAFT CORP, STINSON DIVISION	L-5, L-5B, L-5C, L-5D, L-5E, L-5E-1, L-5G	A-764	CAR 4a	AFC-W360	C 08/28/2006*	08/28/2006
CONSOLIDATED-VULTEE AIRCRAFT CORP, STINSON DIVISION	V-77	A-774	CAR 4a	AFC-W360	C 08/28/2006*	08/28/2006
CONSOLIDATED-VULTEE AIRCRAFT CORP, STINSON DIVISION	L-1, L-1A, L-1B, L-1C, L-1D, L-1E, L-1F	LTC-26	CAR 9	AFC-W360	C 08/28/2006*	08/28/2006



US Department of Transportation
Federal Aviation Administration

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

Form Approved
OMB No. 2120-0020

For FAA Use Only

Office Identification

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

1. Aircraft	Make Stinson	Model V-77
	Serial No. 77-143	Nationality and Registration Mark N50227
2. Owner	Name (As shown on registration certificate) Bailey James H.	Address (As shown on registration certificate) 409 20th Ave Brookings SD 57006

3. For FAA Use Only

4. Unit Identification

5. Type

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

6. Conformity Statement

A. Agency's Name and Address William R Ebbinga 58071 Richland Rd Griswold IA 51535	B. Kind of Agency <input checked="" type="checkbox"/> U.S. Certificated Mechanic <input type="checkbox"/> Foreign Certificated Mechanic <input type="checkbox"/> Certificated Repair Station <input type="checkbox"/> Manufacturer	C. Certificate No. 1828527
---	--	-------------------------------

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

Date June 27, 2010	Signature of Authorized Individual <i>William A Ebbinga</i>
-----------------------	--

7. Approval for Return To Service

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

BY	FAA Fit. Standards Inspector	Manufacturer	<input checked="" type="checkbox"/> Inspection Authorization	Other (Specify)
	FAA Designee	Repair Station	Person Approved by Transport Canada Airworthiness Group	
Date of Approval or Rejection June 27, 2010	Certificate or Designation No. APP 1828527A	Signature of Authorized Individual <i>William A Ebbinga</i>		

NOTICE

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

8. Description of Work Accomplished

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

1. Removed all fabric from covered assemblies. Cleaned and inspected all uncovered assemblies. Made minor repairs as needed. Inspected all assemblies for corrosion and treated as necessary I/A/W AC 43-13-1A Chapter 1 Section 2 , Chapter 3, Section 1, Chapter 6 and applicable sections of 43-4A for "Corrosion Control for Aircraft"

Complete pre-covering inspection of all assemblies and found satisfactory for recover;

Recovered all assemblies with STITS POLY-FIBER 3.4 OZ. Fabric I/A/W STITS POLY-FIBER COVERING & PAINTING MANUAL dated February 1993 .. All work I/A/W procedure manual No. 1, Revision fifteen ,Seventh Edition , February 1993..

Painted I/A/W STITS-POLYFIBER MANUEL using STITS POLY-TONE . Base color #125 Tucson Cream with trim color of # 187 Christen Eagle Red

2. This alteration is approved under FAA STC SA1008WE dated July 26,1965.

3. n/a

4. Any repairs to dope& fabric to be I/A/W/ STITS POLY-FIBER PROCEDURE MANUEL # 1.

5. Normal maintenance and inspection I/A/W Stinson Erection and Maintenance Instructions TO

01-50KA-2

6. n/a

7. n/a

8. n/a

9. n/a

15. n/a

10. n/a

16. n/a

11. n/a

12. n/a

13. n/a

14. n/a

Fabric and paint in new empty weight of June 27,2010..

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

Additional Sheets Are Attached

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

Number SA1008WE

This certificate, issued to

STITS AIRCRAFT CORPORATION

*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 Master Eligibility List Number 1008 for list of approved airplane models and applicable airworthiness regulations.

Description of Type Design Change: Remove original cloth covering and install Poly-Fiber covering material in accordance with Poly-Fiber Covering Kit No. 1 consisting of Pages 2, 3 and 4, dated November 1975, of the Poly-Fiber Procedures Manual No. 1 or later FAA approved revision thereto, Poly-Fiber Source of Materials and Poly-Dope Products Process Specification No. 50.

Limitations and Conditions: The approvals of this change in type design applies basically to those aircraft models listed on the attached sealed FAA Approved Master Eligibility Application List No. 1008. This approval should not be extended to other specific airplanes of those models on which previously approved modifications are incorporated unless it is determined that the inter-relationship between this change and any of those other previously approved modifications will introduce no adverse effects upon the airworthiness of those airplanes.

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

Date of application: May 20, 1965

Date reissued:

Date of issuance: July 26, 1965

Date amended: March 18, 1966; March 22, 1976



By direction of the Administrator

James L. Lippin
(Signature)

Acting Chief, Aircraft Engineering Division
(Title)

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

F.A.A. APPROVED MASTER ELIGIBILITY APPLICATION LIST NO. SA1008WE DATED JULY 26, 1985. Aircraft models eligible for the installation of POLY-FIBER per Manual No. 1.

Aircraft Make & Model	T.C. No.	Components Covered	Aircraft Make & Model	T.C. No.	Components Covered
Aeronca C-3, PC-3	ATC-396	Complete Aircraft	Douglas DC3A-SCG, -SC3G, -S1CG, -S1C3G (Army C-41, C-41A, C-48, -48A, -52, -52A, -52B, -52C, -53, -53B, -53C, -53D, -68; Navy R4D-3, -4), DC3A-S4C4G; DC3C-SC3G, -S1C3G, -S4C4G (Army C-47, -47A; Navy R4D-1, -5); DC3C-R-1830-90C (Army C-47B; Navy R4D-8); DC3D-R-1830-90C (Army C-117A)	TC-A688	Ailerons, Elevators & Rudder
Aeronca (Trytek) K, KS	ATC-634	Complete Aircraft	Douglas A-26B, A-26C	LTC-3	Ailerons, Elevators & Tabs, Rudder & Ailerons
Aeronca LC, LCS	ATC-614	Complete Aircraft	Douglas C-54-DC (Army C-54; Navy R5D), C54A-DC (Army C-54A, Navy R5D-1), C54B-DC (Army C-54B, Navy R5D-2), C54D-DC (Army C-54D, Navy R5D-3), C54E-DC (Army C-54E, Navy R5D-4), C54G-DC (Army C-54G, Navy R5D-5), DC-4	TC 762	Rudder, Elevators & Ailerons
Aeronca O-58A (Army L-3A), O-58B (Army L-3B, L-3C), SO-58B	TC A-751	Complete Aircraft	McDonnell Douglas DC-6A, (Navy R6D-1, USAF C-118A)	TC 6A3	Rudder
Aeronca (Trytek) 50-C, 65-C, 65-CA (Army L-3F), S-50-C, S-65-C, S-65-CA, KCA	TC-675	Complete Aircraft	McDonnell Douglas DC-6B, (Navy R6D-1Z)	TC 6A4	Rudder
Aeronca 50-TC, 60-TF, 65-TC (Army L-3J), 65-TF, 50-TL 65-TL, 65-TAC (Army L-3E), 65-TAF (Army L-3D), 65-TAL, YO-58 (Army L-3)	A-728	Complete Aircraft	Emair MA-1, MA--1B	TC A6PC	Complete Aircraft
Aeronca (Bellanca) (Trytek) 11AC, S11AC, 11BC, S11BC	TC A-761	Complete Aircraft	Ercoupe (Univair) 415-C, CD	TC A-718	Both Wings
Aeronca 15AC, S15AC	TC A-802	Fuselage & Empennage	Ercoupe (Univair) 415-D, -E, -G	TC A-787	Both Wings
Aeronca (Champion) (Bellanca) 7AC, 7ACA, S7AC, (L-18A) 7BCM, (L-16B) 7CCM, S7CCM, 7DC, S7DC, 7EC, S7EC, 7ECA, 7FC, 7GC, 7GCA, 7FCOA, 7GCB, 7GCBA, 7GCBC, 7HC, 7JC, 7KC, 7KCAB	TC A-759	Complete Aircraft	Fairchild M-62A (Army PT-19, -19A, -19A-AE, -19A-SL, -19B, -19B-AE), M-62A-3 or -4 (Army PT-26, -26A, -26B), M-62B, -62C (Army PT-23, -23-AE, -23-HO -23-SL, -23A, -23A-SL)	TC-724	Complete Aircraft
Aeronca (Bellanca) 8KCAB, 8GCBC	TC A21CE	Complete Aircraft	Fairchild 24 C8	ATC-475	Wings
Aetna Aerocraft 25A	733	Complete Aircraft	Fairchild 24 C8C, C8CS	ATC 534	Complete Aircraft
Air Tractor Inc. AT300, AT301, AT302, AT400, AT400A	A9SW	Elevators & Rudder	Fairchild 24 C8E & 24 C8ES	ATC-600	L & R Elevators & Top of Horiz. Stab
American Eaglet B-31	ATC-450	Complete Aircraft	Fairchild 24R9 (Army UC-61C), 9S, 40 (Army UC-86, 40S, 46, 46A (Army UC-61K), 46S	TC-706	Complete Aircraft
Beechcraft D17S (Army UC-43, -43B; Navy GB-1, -2) SD17S	TC-649	Complete Aircraft	Fleetwing F-401	2-540	L & R Wing Panels
Beech C18S (Army C-45, -45A 45F, UC-45B, -45F, AT-7, -7A, -7B, -7C; Navy JRB-1, -2, -3, -4, SNB-2, -2C)	TC-757	All Fabric Covered Components	Fleet 16B (RCAF Finch II)	2-566	Complete Aircraft
Bellanca 14-13, 14-13-2, -3, -3W	TC-773	Complete Aircraft	Frankfort (Corcoran) B Glider (Army XTG-1, -TG-1A, -1C)	GTC-7	Complete Aircraft
Bellanca Cruise Master 14-19, -19-2, -3, -3A, 17-30, 17-31, 17-31 TC	TC-1A3	Complete Aircraft	Franklin "A" S/N 8	ATC 2-246	Fuselage
Blanik L-13 LET, n.p.	TC-G24EU	All Control Surfaces	Funk (McClish) B, B75L (Army UC-92), B85C	TC-715	Complete Aircraft
Boeing A75L3, 75 (Army PT-13), A75 (Army PT-13A, -13B, -13C), B75 (Navy N2S -2), E75 (Army PT-13D; Navy N2S-5; PT-13D/N2S-5), A75J1 (Army PT-18), A75L300, A75N1 (Army PT17, -17A; Navy N2S-1, -4), B75N1 (Navy N2S-3), D75N1 (Army PT-27), 1B75A, E75N1	TC-743	Complete Aircraft	General Dynamics Corp. Vultee BT-13, -13A (Navy SNV-1), -13B (Navy SNV-2) -15	2-571	All Control Surfaces
Brewster Fleet 7, 7-C 7 Deluxe, 10	ATC-374	Complete Aircraft	Great Lakes Aircraft Co. 2T-1A, 2T-1A-1, 2T-1A-2	TC A18EA	Complete Aircraft
Callair A, A-2, A-3, A-4 A-5, A-5T, A-6, A-7, A-7T A-9, A-9B	TC A-758	Complete Aircraft	Grumman AG-CAT, G-164, -164A	TC 1A16	All Fabric Covered Components
Callair, B-1A	TC-A8WE	Both Wings	Grumman FM-2	LTC-25	Ailerons Elev. & Rudder
Cessna 120, 140	TC-766	Both Wings	Grumann G21, -21A (Army OA-9 Navy JRF-1, -2, -3, -4, -5, -6B)	TC 654	All Fabric Covered Surfaces
Cessna 170	TC-799	Both Wings	Grumman G-44 (Army OA-14; Navy J4F-2) -44A, Scan Type 30	TC A-734	Aft Section of Wings
Commonwealth (see Rearwin)			Grumman G-73	A-783	Rudder
Consolidated PBY-5 (Army OA-10), PBY-5A (Army OA-10A)	TC 2-548	Right Aileron	Grumman Navy F8F-1	LTC-23	Both Elevators & Ailerons
Culver V, V2	TC-778	Complete Aircraft	Grumman Navy TBF & TBM Series	LTC-8	Ailerons, Elevators & Rudder
Culver, Army PQ-14A, -14B YPC-14A, -14B; Navy TD2C-1	LTC-28	Complete Aircraft	Grumman HU-16A, HU-16B	A83350	Ailerons Rudder & Elevators
Curtiss P-40L, P-40N	LTC-18	R & L Elevators	Harlow (Poacock) PJC-1, -2 (Army UC-80)	TC-659	Rudder
Curtiss-Wright Jr. CW-1	TC-397	Fuselage & Empennage	Helio H-250, H-295 (USAF U-10D), H-391 (USAF YL-24) H39AB, H395 (USAF L-28A) H395A	TC-1A8	L & R Ailerons
deHavilland, Cliff Robertson, DH 82A	TC A8EU	Complete Aircraft	Helton (McBemas) Lark 95	TC-748	Complete Aircraft
deHavilland 104 Dove Series 1A, 2A, 5A, 5BA, 6A, 6BA, 7A, 7AXC, 8A, 8AXC	TC-807	All Fabric Covered Components	Howard DGA-15J (Army UC-70B), DGA-15P (Army UC-70; Navy GH-1, -2, -3, NH-1), DGA-15W	TC-717	Complete Aircraft
Douglas DC3-G102, DC3-G102A (Army C-49E, -50, -50A, -50B, -50C, -50D, -51), DC3-G103A, DC3-G202A (Army C-49, -49A, -49B, -49C, -49D, -49J, -49K; Navy R4D-2)	TC-618	Ailerons, Elevators & Rudder	Inland W-500	ATC-315	Both Wings & Rudder
			Interstate and/or Callair S-1A, S-1A-65F, -85F, -90F	TC-737	Complete Aircraft
			Interstate and/or Callair S-1B1 (Army L-6, XL-6)	TC-754	Complete Aircraft

Aircraft Make & Model	T.C. No.	Componente Covered	Aircraft Make & Model	T.C. No.	Componente Covered
Intrepriderea De Constructii Aeronautice Brasov 1S-28B2	G40EU	Aileron, Rudder & Elevator	Ryan Aeronautical ST-3KR (Army PT-22, -22A)	TC-749	All Fabric Covered Components
Laister-Kaufman LK-10A (Army TG-4AO, LK-10B)	TCG-15	Complete Aircraft	Ryan Aeronautical ST-A	ATC-571	All Fabric Covered Components
Luscombe 8, 8A, 8B, 8C, 8D, 8E, 8F, T-8F	TC-694	Both Wings	Ryan SCW-145	TC 658	Wings & Empennage
Maule Bee Dee M-4, M-4, -4C, -4S, -4T, M-4-210, -210C, -210S, -210T, -220C, -220S, -220T, -180C, -180S, -180T, M-4-220, M-5-180C, -200, M-5-210C, -210TC, -220C, -235C, M-8-180, M-8-235, M-7-235, MX-7-235, -180.	TC-3A23	Fuselage & Empennage	Scheibe Bergfalke-II/55 -III	TC-7G9	Both Wings
McKinnon G-21G	TC 4A24	Rudder	Schempp-Hirth SHK1	G9EU	Wings & Empennage
Meyers OTW, -KR, -145, -160	TC-A736	All Fabric Covered Components	Schleicher Ka 6, Ka 6B, Ka 6C, Ka 6CR, Ka 6CR-Pe, Ka 6E	TC 7G1	Wings & Empennage
Mooney M20, M20A, M20B, M20C, M20D, M20E, M20F, M20G	TC-2A3	Complete Aircraft	Schleicher K7, Ka2b	TC7G3	Fuselage
Mooney Mite M-18C-18C55, -18L, -18LA	TC-803	Complete Aircraft	Schleicher K8, K8B	TC-7G4	Complete Aircraft
Monocoupe 90, 90A, 90AF, 90AF-100, 90AL-115	TC-306	Complete Aircraft	Schleicher Zugvogel-111B	TC G4EU	Fuselage, Empennage
Moth 60-GM, -GMW	ATC-197	Complete Aircraft	Schleicher ASK13	G15EU	Both Wings, Elevators & Ailerons
Naval Aircraft Factory Navy N3N-3	2-569	Complete Aircraft	Schweizer SGU-1-19, -19A	TCG-17	Complete Aircraft
North American BC-1A, AT-6 (SNJ-2), -6A (SNJ-3), -6B, -6C (SNJ-4), -6D (SNJ-5), -6F (SNJ-6, -7), T-6G	2-575	All Fabric Covered Components	Schweizer SGU-2-22, -22A, -22B, -22C, -22CK, -22E, -22EK	TCG-18	Complete Aircraft
North American RB-25, B-25C, GH, J, B-25N, TB-25N	LTC-2	Rudder	Schweizer SGC 1-26, -26A, -26B, -26C, -26D, -26E	TC-1G10	Complete Aircraft
North American (Cavalier) Army P-51C, D, K	LTC-11	Rudder	Schweizer SGS 2-8, SGS 2-8A	GTC 5	All Fabric Covered Components
Nelson BB-1 Glider	GTC-19	Fuselage	Schweizer SGS 2-32	TC G1EA	L & R Aileron & Rudder
Pasped W-1	ATC 2-546	Complete Aircraft	Schweizer SGS 2-33, -33A, -33AK	TC-G2EA	All Fabric Covered Components
Perth-Amboy Bird BW	ATC-382	Complete Aircraft	Schweizer SGS1-34, -34R	G3EA	Rudder
Perth-Amboy Bird CK	ATC 388	Complete Aircraft	Stearman-Hammond, Y1S	TC-644	L & R Wings & Center Section
Piaggio P136-L, -L1, -L2	TC 813	All Control Surfaces	Stearman 4E	ATC-292	Complete Aircraft
Piper E-2	ATC 455	Complete Aircraft	Stearman C3-B	ATC-55	Complete Aircraft
Piper J-2	ATC-595	Complete Aircraft	Stinson SR-5, -5A, (Army L-12), -5B, -5C, -5E	ATC 530	Complete Aircraft
Piper J3F-50, -50S, -60, -60S, -65 (Army L-4D) -65S	TC-692	Fuselage & Wings	Stinson SR-7A, -7B, -7C	ATC 594	Fuselage
Piper J3C-40, -50, -50S, 065 (Army L-4, -4A, -4B, -4J, Navy NE-1, -1), -65S, PA-11, PA-11S	TC-691	Complete Aircraft	Stinson SM-8A	ATC-295	Complete Aircraft
Piper J3L, -S, -65 (Army L-4C) -65S	TC898	Complete Aircraft	Stinson SM-8B, -8BT	ATC 294	Complete Aircraft
Piper J4, J4A, J4A-S	TC-703	Complete Aircraft	Stinson 10A (Army L-9B) 10B	TC-738	Rudder
Piper J5A (Army L-4F), J5A-80, J5B (Army L-4G), J5C, AE-1, HE-1	TC-725	L & R Wings & Fuselage	Stinson HW-75, 10	TC-709	Complete Aircraft
Piper PA-12, PA-12S	TC-780	Complete Aircraft	Stinson L-5, -5B, -5C, -5D, -5E, -5E-1, -5G	TC-764	Complete Aircraft
Piper PA-15	TC-800	Complete Aircraft	Stinson 108, 108-1, -2, -3, -5	TC-A767	Complete Aircraft
Piper PA-16, PA-16S	TC-1A1	Complete Aircraft	Stinson V-77 (Army AT-19)	TC-774	Complete Aircraft
Piper PA-18, PA-18S, PA-18 "105" (Special), PA-18S "105" (Special), PA-18A, PA-18 "125" (Army L-21A), PA-18S "125", PA-18AS "125", PA-18 "135" (Army L-21B), PA-18A "135", PA-18S "135", PA-18AS "135", PA-18 "150", PA-18A "150", PA-18S "150", PA-18AS "150", PA-19 (Army L-18C), PA-19S	TC-1A2	Complete Aircraft	Taylorcraft Model A	TC-746	Complete Aircraft
Piper PA-20, -20S, -20-115, -20S-115, -20-135, -20S-135	TC-1A4	Complete Aircraft	Taylorcraft DC-65 (Army L-2, -2C), DCO-65 (Army L-2A, -2B, -2M), DF-65 (Army L-2E), DL-65 (Army L-2D)	TC-A696	Complete Aircraft
Piper PA-22, -22-108, -22-135, -22S-135, -22-150, -22S-150, -22-160, -22S-160	TC-1A6	Complete Aircraft	Taylorcraft BC, BCS, BC-65, TCS-65, BC12-65 (Army L-2H), BCS12-65, BC12-D, BDS12-D, BC12-D1, BCS12-D1, BC12D-85, BCS12D-85, BC12D-4-85, BCS12D-4-85		
Piper PA-25, 25-235, -25-260	TC-2A8	Complete Aircraft	Taylorcraft-19, F-19, F-21, F21A, F21B, F22, F22A.	TC1A9	Complete Aircraft
Pitcarin PA-5	ATC-18	Fuselage & Empennage	Travel Air 4000	ATC-32	Complete Aircraft
Pitts S-1S, S-1T, S-2, S-2A, S-2S, S-2B	TC-A8S0	Complete Aircraft	Vultee (See General Dynamics Corporation)		
Porterfield CP-50	TC-690	Fuselage & Empennage	Waco ASQ	ATC-41	Complete Aircraft
Porterfield CP-55, -65, CS-65, FP-65, LP-65	TC-720	Complete Aircraft	Waco CSO	ATC 240	Complete Aircraft
Pratt, Read PR-G1 (Army TG-32; Navy LNE-1)	GTC-12	Complete Aircraft	Waco GXE	ATC 13	Fuselage, R & L Horiz. Stab, L & R Elevator
Rearwin, Commonwealth, 175, 180, 180F, 185, 190F	TC-729	Complete Aircraft	Waco UBF-2	ATC 473	Complete Aircraft
Rearwin (Pigman) 8090, 8125, 8135 (Army UC-102A), 8135T	TC 711	Complete Aircraft	Waco UPF-7, VPV-7	TC-642	Complete Aircraft
Rockwell Commander 600 S-2D, S-2R	TC-A4SV	Hori. & Vertical Stabilizers & Rudder	Waco QCF-2	TC-416	Complete Aircraft
			Waco CUC-1, CUC-2	ATC 575	Complete Aircraft
			WACO UIC	ATC 499	Complete Aircraft

When one model of a series of models has been covered and approved all aircraft models manufactured under the same Type Certificate number, civilian or military, are also included in our STC. Thus, our STC for an Aeronca (Champion, Bellanca) 7AC model is also applicable to the approximately 22 (and growing) models of aircraft manufactured as Series 7 under the same TC #758.

When a design is changed to metal skin and manufactured under the same TC number, e.g. the Luscombe Model 8, all models optional fabric or metal covered wing, our STC is applicable only to those models with fabric covered components. Check the aircraft nameplate for the TC number or check with the local FAA-GADO office.

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AIRCRAFT OPERATION LIMITATIONS WITH DOOR REMOVED

AIRCRAFT	<u>STILSON V-77</u>	<u>4713</u>	<u>N 50227</u>
	Make and Model	Serial No.	Registration No.

1. This aircraft may be flown with not more than one cabin door removed, provided the aircraft is operated in accordance with the applicable Civil Air Regulations and the following limitations:
 - a. 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
 - b. No acrobatic maneuvers are permitted.
 - c. Maximum yaw angle 10°; maximum bank angle 15°.
 - d. An FAA (CAA) approved safety belt installation must be provided for each occupant.
 - e. No smoking permitted.
 - f. When operations other than parachute jumping are conducted, a suitable guardrail or equivalent safety device must be provided for the doorway.
 - g. All loose articles must be tied down or stowed.
 - h. No baggage may be carried.
 - i. Jumpers' static lines must be kept free of pilot's controls and control surfaces.
 - j. Operations limited to VFR conditions.
 2. 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."
 3. A copy of these limitations must be carried in the aircraft when flight operations are conducted with the door removed.
- Note: When parachute jumping operations are being conducted, it is recommended that all occupants wear parachutes.

Date December 18, 1963

W. O. Vandewark
 W.O. Vandewark
 General Maintenance Inspector
 WE-GADO-10, Portland, Oregon

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[The main body of the document contains extremely faint and illegible text, likely bleed-through from the reverse side of the page. The text is arranged in several paragraphs and appears to be a technical or regulatory document.]

U. S. DEPARTMENT OF COMMERCE CIVIL AERONAUTICS ADMINISTRATION		Form Approved Budget Bureau No. 41-B041A	
APPLICATION FOR AIRWORTHINESS CERTIFICATE AND/OR ANNUAL INSPECTION OF AN AIRCRAFT		INSTRUCTIONS Please print or type. Submit this form to the Civil Aeronautics Administration Aviation Safety Field Representative.	
1. TYPE OF APPLICATION (Check which)			
a. <input type="checkbox"/> ORIGINAL ISSUANCE OF CERTIFICATE b. <input checked="" type="checkbox"/> ANNUAL INSPECTION FOR RENEWAL OF CERTIFICATE c. <input type="checkbox"/> AMENDMENT OR MODIFICATION OF CURRENT CERTIFICATE		d. <input type="checkbox"/> RECERTIFICATION UNDER THE PROVISIONS OF CAR 8 e. <input type="checkbox"/> MULTIPLE CERTIFICATE UNDER THE PROVISIONS OF CAR 8 f. <input type="checkbox"/>	
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. <input checked="" type="checkbox"/> STANDARD (NORMAL, UTILITY, ACROBATIC, TRANSPORT CATEGORIES) b. <input type="checkbox"/> LIMITED (SEE CAR 9) c. <input type="checkbox"/> RESTRICTED (SEE CAR 8) (Check the restricted special purpose operation(s) to be conducted) <ul style="list-style-type: none"> <input type="checkbox"/> AGRICULTURAL AND PEST CONTROL <input type="checkbox"/> AERIAL ADVERTISING <input type="checkbox"/> AERIAL SURVEYING <input type="checkbox"/> GLIDER TOWING 		<ul style="list-style-type: none"> <input type="checkbox"/> PATROLLING <input type="checkbox"/> FOREST AND WILDLIFE CONSERVATION <input type="checkbox"/> WEATHER CONTROL <input type="checkbox"/> OTHER 	
d. <input type="checkbox"/> EXPERIMENTAL (Check the type of experimental operation(s) to be conducted) <ul style="list-style-type: none"> <input type="checkbox"/> RESEARCH AND DEVELOPMENT <input type="checkbox"/> AMATEUR-BUILT <input type="checkbox"/> DEMONSTRATION 		<ul style="list-style-type: none"> <input type="checkbox"/> RACING <input type="checkbox"/> EXHIBITION <input type="checkbox"/> OTHER 	
3. AIRCRAFT IDENTIFICATION (Complete all items)			
a. AIRCRAFT MAKE <u>Stinson</u> <u>CONS. VULTEE</u>		b. AIRCRAFT MODEL <u>V-77</u>	
		c. AIRCRAFT SERIAL NO. <u>77-143</u>	
d. ENGINE MAKE <u>LYCOMING</u>		e. ENGINE MODEL <u>R-680-E3A</u>	
4. AIRCRAFT REGISTRATION INFORMATION (Complete all items)			
a. REGISTERED OWNER'S FULL NAME <u>MERCY FLIGHTS INC.</u>		b. PERMANENT MAILING ADDRESS <u>Box 522</u> <u>MEDFORD.</u> <u>OREGON</u>	
		c. AIRCRAFT NATIONALITY AND REGISTRATION MARK <u>N-50227</u>	
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. <input type="checkbox"/> CERTIFICATE OF REGISTRATION, FORM ACA-500 (PART A). DATE OF ISSUE <u>8-25-1954</u>			
b. <input type="checkbox"/> APPLICATION FOR REGISTRATION, FORM ACA-500 (PART B). FORM ACA-500, PART A, FORWARDED TO CAA AIRCRAFT RECORDS BRANCH, W-300 ON _____ (DATE)			
c. <input type="checkbox"/> DEALER'S REGISTRATION CERTIFICATE, FORM ACA-1707, DATED _____ (DATE)			
*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)		<u>George E. Milligan, Agent</u> (SIGNATURE OF REGISTERED OWNER OR AUTHORIZED AGENT)	
<input checked="" type="checkbox"/> ACA-319 <input type="checkbox"/> WEIGHT AND BALANCE REPORT <input type="checkbox"/> ACA-337 <input type="checkbox"/> DATA, DRAWINGS, ETC. <input type="checkbox"/> ACA-317 <input type="checkbox"/> UNAPPROVED DEVIATION DATA		<u>8-11-55</u> (DATE)	
		<u>AGENT</u> (TITLE)	

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4-19-85*

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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 1954 THROUGH CARD NO. 55-15
(YEAR)

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 760:00 HOURS

d. ENGINE RECORDS INDICATE THE FOLLOWING OPERATION:

SERIAL NO. <u>4713</u>	TOTAL HOURS <u>520:00</u>
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 8-9-55 (DATE)

BY AIRCRAFT MANUFACTURER

BY APPROVED REPAIR STATION, CERTIFICATE NO. _____

BY MECHANIC, CERTIFICATE NO. APM-9083 AP544869

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 8-11-55 (DATE)

g. PREVIOUS FORM ACA-1362 WAS ISSUED TO EXPIRE 8-9-55 (DATE)

BY J.C. HAMAKER (NAME OF ISSUING REPRESENTATIVE) 7341 (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.	DATE

ACCEPTED

REINSPECTED

SPOT CHECKED

ATTACHMENT

Reg. 4 LA
ASDO 22

RECEIVED
 SEP 6 10 27 AM '55
 ADMIN. & RECORDS DIVISION
 W-300

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 Stinson	MODEL 46 V-77	SERIAL NO. 77-143	NATIONALITY AND REGISTRATION MARK N50227
2. OWNER	NAME (First, middle, last) Al Larsen		ADDRESS (Street and number, city, zone and State) 2804 E 27 st Vancouver Wash	

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 3 above) *****			XXI	
b. POWERPLANT					
c. PROPELLER					
d. APPLIANCE	TYPE AND MANUFACTURER				



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

CATEGORY	EMPTY WEIGHT (Pounds)*	EMPTY CENTER OF GRAVITY (Inches from datum)*	USEFUL LOAD (Pounds)*
Std.	2560	85.58"	1440

5. CONFORMITY STATEMENT (Complete and check)

a. AGENCY'S NAME AND ADDRESS Albert R Larsen 2804 E 27 St Vancouver Wash	b. KIND OF AGENCY <input checked="" type="checkbox"/> U. S. Certificated Mechanic. <input type="checkbox"/> Foreign Certificated Mechanic. <input type="checkbox"/> Certificated Repair Station. <input type="checkbox"/> Manufacturer. <input type="checkbox"/> (Check if repair or alteration was made under delegation option procedures.)	c. CERTIFICATE NO. AP 1433562
--	--	---

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.

April 3, 62 (Date repair and/or alteration completed) *Albert R Larsen* (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 } BY { CAA Designee Manufacturer Canadian Department of Transport Inspector of Aircraft
 REJECTED } CAA Aviation Safety Agent Repair Station Other (Specify) **I.A.**

8-9-62 (Date of approval or rejection) Herman D. Wilke AOR 346592 (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 8-10-62 (Date) Reinspected _____ (Date) Spot Checked _____ (Date)

WE-GADO-4 (CAA designation number) *Keith M. Bancroft* (Signature Aviation Safety Agent)

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 appliances. After the repair and/or alteration has been inspected and item is 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:

^{Left} Fuselage wings and all controls recovered Irish Linen DTD 540 complies with
 Right wings recovered with Grade A Cotton TSO-C15. FAA TSO-C15

Clear Esterate Dope 4 coats
 Aluminum Dope 5 coats
 pigment Dope 8 coats

Aircraft weighed with following items installed I,3,101,102,103,105,201
 202,301,302,304,401

Right scale reading:1210 Left scale:1170; Tail scale: 180

Distance from main wheel to tail wheel, 228.75 "

Distance from Main wheel to Datum line , 69.5"

Empty weight C.G. 180x228.75/2560 16.08 +69.5 =85.58" from Datum line

	MOST FORWARD POSITION C.G.-		
Basic aircraft	2560	85.58	219084.80
Pilot	170	84	14280
Oil 4.25 Gal	31.87	37	-1179.19
Gas 25 gal Min	150	103.5	15525.0
	<u>2911.87</u>		<u>247710.61</u>

Most forward C.G. 247710.61/ 2911.87= 85" Aft Datum line

MOST REARWARD C.G. LOCATION

Basic aircraft	2560	85.58	219084.80
Oil 4.25 Gal	31.87	37	-1179.19
Pilot, Pass	340	84	28560
Pass three(3)	510	120	61200
Gas 70Gal	420	103.5	43470
	<u>3861.87</u>		<u>351135.71</u>

Most rearward C.G. 351135.71/3861.87 =90.9" Aft datum line

Items Bendix Radio, ADF control ADF Receiver ADF Inverter removed by persons ~~unknown~~ and were not in aircraft at time of weighing

Recovered accordance CAM 18 Ref. Sect.18.30(b) (5) (1)

*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.

3/24/84

U. S. DEPARTMENT OF COMMERCE
 CIVIL AERONAUTICS ADMINISTRATION
**APPLICATION FOR AIRWORTHINESS CERTIFICATE
 AND/OR ANNUAL INSPECTION OF AN AIRCRAFT**

Form Approved, Budget Bureau No. 41-1011-3
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 10)
 (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 Stinson Consolidated Vultee	b. AIRCRAFT MODEL V-77	c. AIRCRAFT SERIAL NO. 77-143
d. ENGINE MAKE Lycoming	e. ENGINE MODEL R-680-E3B	

4. AIRCRAFT REGISTRATION INFORMATION (Complete all items)

a. REGISTERED OWNER'S FULL NAME Mercy Flights Incorporated	b. PERMANENT MAILING ADDRESS Box 522 Medford, Oregon	c. AIRCRAFT NATIONALITY AND REGISTRATION MARK N-50227
--	--	---

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 9), FORM ACA-500, PART A, FORWARDED TO CAA AIRCRAFT RECORDS BRANCH, W-300 ON Nov. 24, 1953 See note. Copy of request for duplicate
 c. DEALER'S REGISTRATION CERTIFICATE, FORM ACA-1707, DATED _____ Reg. Cert. Attached.

*over
4-15-84
Jeb*

*In order to be eligible for registration an aircraft must be owned by a citizen of the United States, as defined by Section 1 (18) of the Civil Aeronautics Act of 1938, as amended.

ATTACHMENTS (Check which)

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

Paul R. Smith
 (SIGNATURE OF REGISTERED OWNER OR AUTHORIZED AGENT)
 8-9-54 Agent
 (DATE) (TITLE)

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. 0
- b. AIRCRAFT LISTING PAGE NO. _____
- c. AIRWORTHINESS DIRECTIVE SUMMARY 1954 THROUGH CARD NO. 16
- 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 583:59 HOURS
- d. ENGINE RECORDS INDICATE THE FOLLOWING OPERATION:

SERIAL NO. <u>4713</u>	TOTAL HOURS <u>344:39</u>
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 Aug 3, 1954 (DATE)
 - BY AIRCRAFT MANUFACTURER
 - BY APPROVED REPAIR STATION, CERTIFICATE NO. _____
 - BY MECHANIC, CERTIFICATE NO. E349275 A&E1004460
- b. PERIODIC AIRCRAFT INSPECTION REPORT, FORM ACA-319, WAS RETURNED TO OWNER

RECEIVED
 SEP 7 1 37 PM '54
 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 8-9-55 (DATE)
- g. PREVIOUS FORM ACA-1362 WAS ISSUED TO EXPIRE 8-5-54 (DATE)
 - BY Harold G. Lane (NAME OF ISSUING REPRESENTATIVE) 4-257-22 (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 <u>J. P. Hamaker</u>	DESIGNATION NO. <u>7341</u>	DATE <u>8-9-54</u>	<input type="checkbox"/> ACCEPTED <input type="checkbox"/> REINSPECTED <input checked="" type="checkbox"/> SPOT CHECKED
AVIATION SAFETY AGENT'S SIGNATURE <u>Harold G. Lane</u>	CAA DESIGNATION NO. <u>LA4-257-22</u>	DATE <u>8-25-54</u>	

ATTACHMENT

10c

Form ACA-837 (11-2-40)		DEPARTMENT OF COMMERCE CIVIL AERONAUTICS ADMINISTRATION		Budget Bureau No. 41-R052.1. Approval expires December 31, 1948.	
REPAIR AND ALTERATION FORM (AIRCRAFT, PROPELLERS, ENGINES, INSTRUMENTS)					
INSTRUCTIONS.—This form must be filled out in duplicate each time a major repair and/or alteration is made of an aircraft, propeller, engine, or instrument, as follows: (A) For an Aircraft.—Complete items 1, 2, 3a, 4, 5, 6, and 7, and submit to CAA representative for approval. (B) For a Component Installed in an Aircraft.—Complete items 1, 2, 3 (b, c, or d, whichever is applicable), 4, 5, and 6, and submit as described in (A) above. (C) For a Spare Component.—Complete items 3 (b, c, or d), 5, and 6, and submit to CAA representative for approval. When approved, retain both copies of this form with the component until installation on an aircraft. At that time items 1, 2, and 4 must be completed by the installing agency which will then forward forms as described in (A) above.					
1. AIRCRAFT	MAKE Stinson	MODEL V-77	SERIAL NO. 77-143	CAA IDENTIFICATION MARK N50227	
2. OWNER	NAME (First, middle, last) Meroy Flights, Inc.		ADDRESS (Street and number, city, zone, and State) Box 522, Medford, Oregon		
3. FILL IN INFORMATION IN THIS ITEM ONLY FOR THE UNIT REPAIRED AND/OR ALTERED					
UNIT	MAKE	MODEL	SERIAL NO.	NATURE OF WORK (Check)	
				MAJOR REPAIR	MAJOR ALTERATION
a. AIRCRAFT	***** (As described in item 1 above) *****				X
b. PROPELLER BLADE OR HUB					
c. ENGINE					
d. INSTRUMENT	TYPE AND MANUFACTURER				
The following items are to be completed by repair or alteration agency. However, in the case of a spare component, item 4 will not be completed until such component is installed in an aircraft. At this time, item 4 will be completed by the installing agency, if applicable.					
4. AIRCRAFT	EMPTY WEIGHT (Pounds)* 2757.125	EMPTY CENTER OF GRAVITY (Inches from datum)* 89.94	USEFUL LOAD (Pounds)* 1245		
* After the repairs and/or alterations described below were made.					
5. KIND OF AGENCY WHICH MADE REPAIRS AND/OR ALTERATIONS (Check)					
<input type="checkbox"/> MANUFACTURER <input type="checkbox"/> APPROVED REPAIR STATION NO. _____ (Specify) <input checked="" type="checkbox"/> CERTIFIED MECHANIC					
6. AGENCY	NAME Smith Aircraft Ser.	ADDRESS (Street and number, city, zone, and State) Medford, Oregon		DATE WORK ACCOMPLISHED 8-3-54	
7. DESCRIPTION OF WORK ACCOMPLISHED IN ACCORDANCE WITH PART 18 OF THE CIVIL AIR REGULATIONS AND ITS ASSOCIATED CIVIL AERONAUTICS MANUAL 18. (IF MORE SPACE IS NEEDED, CONTINUE ON REVERSE OR ATTACH SEPARATE SHEETS BEARING AIRCRAFT IDENTIFICATION MARK.) The following equipment installed. See reverse of this form for weights and locations of each piece. Bendix radio with Max-Sig, G. E. Radio, ADF control, ADF receiver, ADF inverter and Battery moved from forward of fire wall to aft of baggage compartment.					
I CERTIFY that the above statements are true and correct to the best of my knowledge.					
<i>Geo. R. Bellah</i> Geo. R. Bellah		A&E 1004460		8-3-54	
(Signature of supervising mechanic)		(Certificate number and rating)		(Date)	
TO BE COMPLETED BY CAA REPRESENTATIVES					
<input checked="" type="checkbox"/> APPROVED	SIGNATURE OF DESIGNEE <i>J. O. Hamaker</i>	NO. 7341	DATE 8-9-54		
<input type="checkbox"/> REJECTED					
<input type="checkbox"/> FORWARDED FOR ENGINEERING APPROVAL	SIGNATURE OF INSPECTOR <i>Harold G. Lane</i>	L44-257-22	<input type="checkbox"/> ACCEPTED	DATE	
			<input checked="" type="checkbox"/> REINSPECTED	8-25-54	

7

Item	Weight	Arm	Moment
Aircraft empty	2638.125	85.6	225559.688
Battery	41.000	185.375	7599.375
Battery	41.000	38.000	-1458.000
Bendix radio	7.500	61.050	460.875
Max-Sig	1.000	61.000	61.000
G. E. Radio	10.500	75.000	787.500
ADF Control	10.000	74.000	740.000
ADF Receiver	65.000	147.500	9587.500
ADF Inverter	25.000	185.200	4630.000
	<u>2757.125</u>		<u>247987.938</u>

New empty Weight 2757.125

New empty C. G. 89.94

RECEIVED
 SEP 7 1 37 PM '54
 TECHNICAL RECORDS BRANCH
 W-380

U. S. DEPARTMENT OF COMMERCE CIVIL AERONAUTICS ADMINISTRATION		Form Approved, Budget Bureau No. 41-8011.5
APPLICATION FOR AIRWORTHINESS CERTIFICATE AND/OR ANNUAL INSPECTION OF AN AIRCRAFT		INSTRUCTIONS Please print or type. Submit this form to the Civil Aeronautics Administration Aviation Safety Field Representative.
1. TYPE OF APPLICATION (Check which)		
a. <input type="checkbox"/> ORIGINAL ISSUANCE OF CERTIFICATE b. <input checked="" type="checkbox"/> ANNUAL INSPECTION FOR RENEWAL OF CERTIFICATE c. <input type="checkbox"/> AMENDMENT OR MODIFICATION OF CURRENT CERTIFICATE		
d. <input type="checkbox"/> RECERTIFICATION UNDER THE PROVISIONS OF CAR 8 e. <input type="checkbox"/> MULTIPLE CERTIFICATE UNDER THE PROVISIONS OF CAR 8 f. <input type="checkbox"/>		
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 air- worthiness classification(s):		
a. <input checked="" type="checkbox"/> STANDARD (NORMAL UTILITY, ACROBATIC, TRANSPORT CATEGORIES)		
b. <input type="checkbox"/> LIMITED (SEE CAR 9)		
c. <input type="checkbox"/> RESTRICTED (SEE CAR 8) (Check the restricted special purpose operation(s) to be conducted)		
<input type="checkbox"/> AGRICULTURAL AND PEST CONTROL <input type="checkbox"/> AERIAL ADVERTISING <input type="checkbox"/> AERIAL SURVEYING <input type="checkbox"/> GLIDER TOWING		
<input type="checkbox"/> PATROLLING <input type="checkbox"/> FOREST AND WILDLIFE CONSERVATION <input type="checkbox"/> WEATHER CONTROL <input type="checkbox"/> OTHER		
d. <input type="checkbox"/> EXPERIMENTAL (Check the type of experimental operation(s) to be conducted)		
<input type="checkbox"/> RESEARCH AND DEVELOPMENT <input type="checkbox"/> AMATEUR-BUILT <input type="checkbox"/> DEMONSTRATION <input type="checkbox"/> RACING <input type="checkbox"/> EXHIBITION <input checked="" type="checkbox"/> OTHER		
3. AIRCRAFT IDENTIFICATION (Complete all items)		
a. AIRCRAFT MAKE Consolidated Vultee	b. AIRCRAFT MODEL V-77	c. AIRCRAFT SERIAL NO. (50227) 77-143 <i>also</i>
d. ENGINE MAKE Lycoming 300 hp.	e. ENGINE MODEL R-680-E3E	
4. AIRCRAFT REGISTRATION INFORMATION (Complete all items)		
a. REGISTERED OWNER'S FULL NAME Merle Wayne Hall	b. PERMANENT MAILING ADDRESS 1830 Grant St. North Bend, Ore.	c. AIRCRAFT NATIONALITY AND REGISTRATION MARK U.S. N-50227
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. <input checked="" type="checkbox"/> CERTIFICATE OF REGISTRATION, FORM ACA-500 (PART A), DATE OF ISSUE <u>Aug. 5, 1953</u>		
b. <input type="checkbox"/> APPLICATION FOR REGISTRATION, FORM ACA-500 (PART B), FORM ACA-500, PART A, FORWARDED TO CAA AIRCRAFT RECORDS BRANCH, W-300 ON _____ (DATE)		
c. <input type="checkbox"/> 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 (18) of the Civil Aeronautics Act of 1938, as amended.		
ATTACHMENTS (Check which) <input checked="" type="checkbox"/> ACA-319 <input type="checkbox"/> ACA-337 <input type="checkbox"/> ACA-317	<input type="checkbox"/> WEIGHT AND BALANCE REPORT <input type="checkbox"/> DATA, DRAWINGS, ETC. <input type="checkbox"/> UNAPPROVED DEVIATION DATA	_____ (SIGNATURE OF REGISTERED OWNER OR AUTHORIZED AGENT) <u>Merle W. Hall</u> Aug. 5, 1953 (DATE) Owner (TITLE)

8-25812
 JCB

12-462
 E3B

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 THROUGH CARD NO. 53-15

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 445:45 HOURS

d. ENGINE RECORDS INDICATE THE FOLLOWING OPERATION:

SERIAL NO. <u>4713</u>	TOTAL HOURS <u>197:10</u>
SERIAL NO. <u> </u>	TOTAL HOURS <u> </u>
SERIAL NO. <u> </u>	TOTAL HOURS <u> </u>
SERIAL NO. <u> </u>	TOTAL HOURS <u> </u>

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

a. LAST AIRWORTHINESS INSPECTION CONDUCTED 7-9-53 (DATE)

BY AIRCRAFT MANUFACTURER

BY APPROVED REPAIR STATION, CERTIFICATE NO.

BY MECHANIC, CERTIFICATE NO. HSE 1021032

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 8-5-53 (DATE)

g. PREVIOUS FORM ACA-1362 WAS ISSUED TO EXPIRE 8-22-53 (DATE)

BY T.W. HOHLEN (NAME OF ISSUING REPRESENTATIVE)

3608 (DESIGNATION NO.)

RECEIVED
 AUG 17 12 16 PM '53
 ADM. & RECORDS BRANCH
 W-300

5. CAA APPROVED REPAIR STATION CERTIFICATION

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

AIRWORTHY

UNAIRWORTHY

(REPAIR STATION AUTHORIZED SIGNATURE) (DATE)

6. CAA REPRESENTATIVE CERTIFICATION

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

DESIGNER'S SIGNATURE	DESIGNATION NO.	DATE
AVIATION SAFETY AGENT'S SIGNATURE	CAA DESIGNATION NO.	DATE
<u>Harold J. Lane</u>	<u>4-257-22</u>	<u>8-5-53</u>

ATTACHMENT

ACCEPTED
 REINSPECTED
 SPOT CHECKED

U. S. DEPARTMENT OF COMMERCE
 CIVIL AERONAUTICS ADMINISTRATION

Form Approved Budget Bureau No. 41-B041.A

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

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 air-
 worthiness 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
Cons. Vultee

b. AIRCRAFT MODEL
V-77

c. AIRCRAFT SERIAL NO.
77-143

d. ENGINE MAKE
Lycoming

e. ENGINE MODEL
R-680E3B

4. AIRCRAFT REGISTRATION INFORMATION (Complete all items)

a. REGISTERED OWNER'S FULL NAME
Walden B. Leitz

b. PERMANENT MAILING ADDRESS
636 Mitchell Ave.
 Billings, Montana

c. AIRCRAFT NATIONALITY
 AND REGISTRATION MARK
N-50227

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-509 (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 August 22, 1952
 (DATE)
 c. DEALER'S REGISTRATION CERTIFICATE, FORM ACA-1707, DATED _____

Walden B. Leitz
 11-4-7
 6-1

*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 WEIGHT AND BALANCE REPORT
 ACA-337 DATA, DRAWINGS, ETC.
 ACA-317 UNAPPROVED DEVIATION DATA

Walden B. Leitz
 (SIGNATURE OF REGISTERED OWNER OR AUTHORIZED AGENT)

August 22, 1952 Owner
 (DATE) (TITLE)

082

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. 19
- 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 347:50 HOURS
- d. ENGINE RECORDS INDICATE THE FOLLOWING OPERATION:

SERIAL NO. <u>4713</u>	TOTAL HOURS <u>95:50</u>
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 August 22, 1952 (DATE)
 - BY AIRCRAFT MANUFACTURER
 - BY APPROVED REPAIR STATION, CERTIFICATE NO. _____
 - BY MECHANIC, CERTIFICATE NO. A&E 209539
- 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 August 22, 1953 (DATE)
- g. PREVIOUS FORM ACA-1362 WAS ISSUED TO EXPIRE June 12, 1952 (DATE)
 - BY Lloyd C. McGrath (NAME OF ISSUING REPRESENTATIVE) 5242 (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

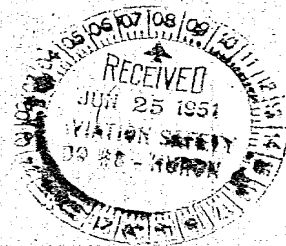
I HAVE INSPECTED THE AIRCRAFT DESCRIBED ON THE REVERSE AND FOUND IT AIRWORTHY UNAIRWORTHY (Check appropriate item)

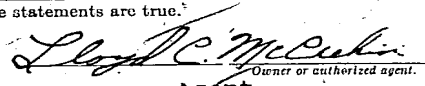
DESIGNEE'S SIGNATURE <u>T. W. HOHLEN</u>	DESIGNATION NO. <u>3608</u>	DATE <u>8-22-52</u>	<input checked="" type="checkbox"/> ACCEPTED <input type="checkbox"/> REINSPECTED <input type="checkbox"/> SPOT CHECKED
AVIATION SAFETY AGENT'S SIGNATURE <u>C. J. Walter</u>	CAA DESIGNATION NO. <u>3-579M-2</u>	DATE <u>9-5-52</u>	

ATTACHMENT

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) <input type="checkbox"/> ORIGINAL AIRWORTHINESS CERTIFICATE <input checked="" type="checkbox"/> ANNUAL INSPECTION		2. AIRWORTHINESS CLASSIFICATION <input checked="" type="checkbox"/> STANDARD <input type="checkbox"/> RESTRICTED <input type="checkbox"/> EXPERIMENTAL <input type="checkbox"/> LIMITED <input type="checkbox"/> OTHER			
AIRCRAFT					
3. MAKE Stinson			5. NATIONALITY AND REGISTRATION MARK N50237		
4. MODEL V-77			6. MANUFACTURER'S SERIAL NO. 77-143		
ENGINE					
7. MAKE Lycoming			8. MODEL R-680E3B		
9. OWNER'S NAME Kampeka Air Service, Inc.			10. (GIVE ADDRESS ONLY IF IT HAS BEEN CHANGED FROM THAT GIVEN ON YOUR CERTIFICATE OF REGISTRATION, FORM ACA-300) Watertown, South Dakota		
11. ATTACHMENTS (CHECK WHICH) <input checked="" type="checkbox"/> ACA-319 <input type="checkbox"/> WEIGHT AND BALANCE REPORT <input type="checkbox"/> ACA-337 <input type="checkbox"/> DATA, DRAWINGS, ETC. <input type="checkbox"/> ACA-317 <input type="checkbox"/> UNAPPROVED DEVIATION DATA			12. I CERTIFY that the above statements are true. <i>Lloyd C. McCrehin</i> (OWNER OR AUTHORIZED AGENT) June 12, 1951 (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. <input checked="" type="checkbox"/> AIRCRAFT SPECIFICATION NO. A-774 THROUGH SHEET REVISION NO. 1					
b. <input type="checkbox"/> AIRCRAFT LISTING PAGE NO. _____					
c. <input checked="" type="checkbox"/> AIRWORTHINESS DIRECTIVE SUMMARY 1951 (YEAR) THROUGH CARD NO. 14					
d. <input type="checkbox"/> OPERATIONS LIMITATIONS FORM ACA-309 ISSUED.					
e. <input checked="" type="checkbox"/> OPERATIONS LIMITATIONS FORM ACA-309 IS AVAILABLE IN AIRCRAFT.					
f. <input type="checkbox"/> CURRENT, APPROVED, AIRPLANE FLIGHT MANUAL IS AVAILABLE IN AIRCRAFT.					
g. <input checked="" type="checkbox"/> ALL APPLICABLE NOTES, INSTRUMENT MARKINGS, AND PLACARDS HAVE BEEN COMPLIED WITH.					
h. <input checked="" type="checkbox"/> CERTIFICATE OF AIRWORTHINESS FORM ACA-136Z WAS ISSUED.					
FINDINGS					
14. <input checked="" type="checkbox"/> AIRWORTHY <input type="checkbox"/> UNAIRWORTHY		15. PILOT-IN-CHIEF SIGNATURE <i>Lloyd C. McCrehin</i> 18. AVIATION SAFETY AGENT'S SIGNATURE <i>Roman B. Mueller</i>		16. DESIGNATION NO. 5242	
				17. DATE June 12, 1951	
				19. <input checked="" type="checkbox"/> ACCEPTED <input type="checkbox"/> REINSPECTED	
				20. DATE June 29, 1951	
21. REASON FOR DISAPPROVAL, OR REMARKS (INDICATE IF YOU HAVE USED THE REVERSE TO CONTINUE THIS OR OTHER ITEM) <input type="checkbox"/> YES <input checked="" type="checkbox"/> NO					

DEPT OF COMMERCE
CIVIL AERONAUTICS ADM
JUL 3 10 35 AM '51
MAIL ROOM 3
WASHINGTON



Form ACA-305 (12-47)	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) <input type="checkbox"/> ORIGINAL AIRWORTHINESS CERTIFICATE <input checked="" type="checkbox"/> ANNUAL INSPECTION		AIRWORTHINESS CLASSIFICATION <input checked="" type="checkbox"/> STANDARD <input type="checkbox"/> RESTRICTED <input type="checkbox"/> EXPERIMENTAL <input type="checkbox"/> LIMITED <input type="checkbox"/> OTHER
AIRCRAFT		
MAKE <u>Stinson</u>	MODEL <u>V-77</u>	TYPE CERTIFICATE NO. <u>774</u>
REGISTRATION NO. <u>50227</u>	MANUFACTURER'S SERIAL NO. <u>77-143</u>	
ENGINE		
MAKE <u>Lycoming</u>	MODEL <u>R-680-E3A</u>	
OWNER'S NAME <u>Kampeska Air Service</u>		PERMANENT ADDRESS (Street and number, city, zone, and State) <u>Watertown, South Dakota</u>
ATTACHMENTS (Check which) <input checked="" type="checkbox"/> ACA-319 <input type="checkbox"/> WEIGHT AND BALANCE REPORT <input type="checkbox"/> ACA-337 <input type="checkbox"/> DATA, DRAWINGS, ETC. <input type="checkbox"/> ACA-317 <input type="checkbox"/> UNAPPROVED DEVIATION DATA		I CERTIFY that the above statements are true. <div style="text-align: right;">  Owner or authorized agent. June 17, 1950 Agent (DATE) (TITLE) </div>
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 <input checked="" type="checkbox"/> YES <input type="checkbox"/> NO		
AIRCRAFT SPECIFICATION—AIRWORTHINESS DIRECTIVE NO(S). <u>A-774-1 June 10, 1949</u> (Specify)		
FORM ACA-1362, CERTIFICATE OF AIRWORTHINESS, ISSUED <input type="checkbox"/> ORIGINAL <input checked="" type="checkbox"/> ANNUAL INSPECTION		
(Check whether) <input type="checkbox"/> OPERATION LIMITATIONS FORM ACA-309 WAS ISSUED, OR <input type="checkbox"/> APPROVED AIRPLANE FLIGHT MANUAL IS IN THE AIRCRAFT <u>Available in aircraft</u>		
FINDINGS		
<input checked="" type="checkbox"/> AIRWORTHY <input type="checkbox"/> UNAIRWORTHY	DESIGNER'S SIGNATURE <u>Lloyd C. McCrehin</u> CAA INSPECTOR'S SIGNATURE <u>Roman B. Mueller</u>	DATE <u>June 17, 1950</u> DATE <u>June 19, 1950</u> <input checked="" type="checkbox"/> ACCEPTED <input type="checkbox"/> REINSPECTED
REASON FOR DISAPPROVAL, OR REMARKS (Indicate if you have used the reverse to continue this or other item.) <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		

acc
7-26-50
NW X

JUN 21 8 59 AM '50
CIVIL AERONAUTICS
MOBILE MISSOURI

NO. 11107-01700
JUN 19 1950
U.S. AIR FORCE
COMMUNICATIONS CENTER
WRIGHT FIELD, OHIO

RECEIVED
JUN 19 1950
AVIATION SAFETY
DO #8 - HURON

FORM ACA-305 (3-5-47)		DEPARTMENT OF COMMERCE CIVIL AERONAUTICS ADMINISTRATION		FORM APPROVED BUDGET BUREAU NO. 41-2041.3	
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)		CAA IDENTIFICATION			
<input type="checkbox"/> ORIGINAL AIRWORTHINESS CERTIF.		<input checked="" type="checkbox"/> ENG <input type="checkbox"/> NR <input type="checkbox"/> OTHER (Specify)			
<input checked="" type="checkbox"/> ANNUAL INSPECTION		<input type="checkbox"/> NX <input type="checkbox"/> UNLIMITED			
AIRCRAFT					
MAKE <u>Consolidated Vultee</u>			MODEL <u>V-77</u>		
REGISTRATION NO. <u>50227</u>	MANUFACTURER'S SERIAL NO. <u>77-143</u>	DATE MANUFACTURED <u>9-24-43</u>	TYPE CERTIFICATE NO. <u>774</u>		
ENGINE					
MAKE <u>Lycoming</u>			MODEL <u>R-680E3A</u>		
OWNER'S NAME <u>Kampeska Air Service</u>			PERMANENT ADDRESS (Street and number, City, Zone and State) <u>Watertown, South Dakota</u>		
ATTACHMENTS (Check which)		I CERTIFY THAT THE ABOVE STATEMENTS ARE TRUE.			
<input type="checkbox"/> ACA-319 <input type="checkbox"/> WEIGHT AND BALANCE REPORT		<u>May 7, 1949</u> DATE <u>Morvin R. Long</u> OWNER OR AUTHORIZED AGENT <u>Agent</u> TITLE			
<input checked="" type="checkbox"/> ACA-337 <input type="checkbox"/> SPECIAL APPROVALS					
<input type="checkbox"/> ACA-805 <input type="checkbox"/> DATA, DRAWINGS, ETC.					
<input type="checkbox"/> ACA-327 <input type="checkbox"/> UNAPPROVED DEVIATION DATA					
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 <input checked="" type="checkbox"/> YES <input type="checkbox"/> NO					
(AIRCRAFT SPECIFICATION - AIRWORTHINESS DIRECTIVE, NO(S)) <u>A-774-3 ADS thru 49-17</u> (SPECIFY)					
AUTHORITY FOR EXCEPTIONS (if any)					
FORM ACA-1362, CERTIFICATE OF AIRWORTHINESS, ISSUED <input type="checkbox"/> ORIGINAL <input checked="" type="checkbox"/> ANNUAL INSPECTION					
(Check whether)					
<input type="checkbox"/> OPERATION LIMITATIONS FORM ACA-309 WAS ISSUED, OR					
<input type="checkbox"/> APPROVED AIRPLANE FLIGHT MANUAL IS IN THE AIRCRAFT					
FINDINGS					
<input checked="" type="checkbox"/> AIRWORTHY		SIGNATURE OF INSPECTOR <u>Lloyd G. McCrehin</u>		DATE <u>May 7, 1949</u>	
<input type="checkbox"/> UNAIRWORTHY		CAA INSPECTOR'S SIGNATURE <u>Earl Peger</u>		DATE <u>5-16-49</u>	
REASON FOR DISAPPROVAL, OR REMARKS (Indicate if you have used the reverse to continue this or other items <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No)					

DEPT OF COMMERCE
CIVIL AERONAUTICS ADM.
JUN 9 10 34 AM '49
MAIL ROOM 3
WASHINGTON

Form ACA-387
 (11-7-48)

DEPARTMENT OF COMMERCE
 CIVIL AERONAUTICS ADMINISTRATION

Budget Bureau No. 41-1052.1
 Approval expires December 31, 1949

REPAIR AND ALTERATION FORM (AIRCRAFT, PROPELLERS, ENGINES, INSTRUMENTS)

INSTRUCTIONS.—This form must be filled out in duplicate and submitted to the agency where repair and/or alteration is made of an aircraft, propeller, engine, or instrument, as follows:
 (A) For an Aircraft.—Complete items 1, 2, 3a, 4, 5, 6, and 7, and submit to CAA representative for approval.
 (B) For a Component Installed in an Aircraft.—Complete items 1, 2, 3 (b, c, or d), 4, 5, and 6, and submit as described in (A) above.
 (C) For a Spare Component.—Complete items 3 (b, c, or d), 5, and 6, and submit to CAA representative for approval. When approved, retain both copies of this form with the component until installation on an aircraft. At that time items 1, 2, and 4 must be completed by the installing agency which will then forward forms as described in (A) above.

1. AIRCRAFT MAKE: **Consolidated Vultee** MODEL: **V-77** SERIAL NO.: **77-143** CAA IDENTIFICATION MARK: **NC50227**
 2. OWNER NAME (First, middle, last): **Kampeska Air Service, Inc.** ADDRESS (Street and number, city, zone, and State): **Watertown, South Dakota**

3. FILL IN INFORMATION IN THIS ITEM ONLY FOR THE UNIT REPAIRED AND/OR ALTERED

UNIT	MAKE	MODEL	SERIAL NO.	NATURE OF WORK (Check)	
				MAJOR REPAIR	MAJOR ALTERATION
a. AIRCRAFT	As described in item 1 above				
b. PROPELLER BLADE OR HUB					X
c. ENGINE					
d. INSTRUMENT	TYPE AND MANUFACTURER				

The following items are to be completed by repair or alteration agency. However, in the case of a spare component, item 4 will not be completed until such component is installed in an aircraft. At this time, item 4 will be completed by the installing agency, if applicable.

4. AIRCRAFT EMPTY WEIGHT (Pounds): **2638.125** EMPTY CENTER OF GRAVITY (Inches from datum): **85.5** USEFUL LOAD (Pounds): **1362**
 * After the repairs and/or alterations described below were made.

5. KIND OF AGENCY WHICH MADE REPAIRS AND/OR ALTERATIONS (Check)
 MANUFACTURER APPROVED REPAIR STATION NO. _____ (Specify) CERTIFIED MECHANIC

6. AGENCY NAME: **Lloyd C. McCrehin** ADDRESS (Street and number, city, zone, and State): **Watertown, South Dakota** DATE WORK ACCOMPLISHED: **May 7, 1949**

7. DESCRIPTION OF WORK ACCOMPLISHED IN ACCORDANCE WITH PART 18 OF THE CIVIL AIR REGULATIONS AND ITS ASSOCIATED CIVIL AERONAUTICS MANUAL 18. (IF MORE SPACE IS NEEDED, CONTINUE ON REVERSE OR ATTACH SEPARATE SHEETS BEARING AIRCRAFT IDENTIFICATION MARK.)

Empty Weight	2668.125	Arm	84.96	Mom.	226689.17
Removed Lycoming engine R-680-E3B	565.000	Arm	36.00	Mom.	20340.00
Installed Lycoming Engine R-680-E3A	535.000	Arm	36.00	Mom.	19260.00

(See Reverse Side)

I CERTIFY that the above statements are true and correct to the best of my knowledge.
 Signature of supervising mechanic: **Lloyd C. McCrehin** A&E 57875-41 Date: **May 7, 1949**
 (Certificate number and rating) (Date)

TO BE COMPLETED BY CAA REPRESENTATIVES

<input checked="" type="checkbox"/> APPROVED	SIGNATURE OF INSPECTOR: Lloyd C. McCrehin	NO.: 5242	DATE: May 7, 1949
<input type="checkbox"/> REJECTED			<input checked="" type="checkbox"/> ACCEPTED
<input type="checkbox"/> FORWARDED FOR ENGINEERING APPROVAL			<input type="checkbox"/> REINSPECTED

New Empty Weight 2638.125 New Mom. 225609.17
 225609.17 - 2638.125 = New C. G. Empty

Most Rearward

Most Forward

	Weight	Arm	Mom.	Weight	Arm	Mom.
Aircraft Empty	2638.125	85.5	225609.17	2368.125	85.5	225609.17
Pilot	170.000	84.0	14280.00	170.000	84.0	14280.00
Passenger	170.000	84.0	14280.00	170.000	84.0	14280.00
Passenger	510.000	121.125	61773.75			
Fuel (Max. 76 gal.)	456.000	103.500	47196.00			
Fuel (Min. 23.75 gal)				142.500	103.5	14748.75
Oil (17 Qts.)	31.875	37.000	-1179.37	31.875	37.0	-1179.37
Baggage	24.000	137.125	3291.00			
	4000.000	91.3	365250.55	3152.500	84.9	267738.55

WASHINGTON
 MAIL ROOM 3
 JUN 9 10 34 AM '49
 DEPT OF COMMERCE
 CIVIL AERONAUTICS ADM.

FORM ACA-305 (3-9-47)		DEPARTMENT OF COMMERCE CIVIL AVIATION ADMINISTRATION		FORM APPROVED BUDGET BUREAU NO. 41-2041.3	
APPLICATION FOR AIRWORTHINESS CERTIFICATE AND/OR ANNUAL INSPECTION				INSTRUCTIONS - Please submit this form to the Civil Aero- nautics Administration Field Representative.	
APPLICATION (Check whether) <input type="checkbox"/> ORIGINAL AIRWORTHINESS CERTIF.		FAA IDENTIFICATION <input type="checkbox"/> N <input type="checkbox"/> HL		<input type="checkbox"/> OTHER (Specify) _____	
AIRCRAFT					
MAKE Consolidated Vultee		MODEL V-77			
REGISTRATION NO. 50227	MANUFACTURER'S SERIAL NO. 77-143	DATE MANUFACTURED 9-24-43	TYPE CERTIFICATE NO. 774		
ENGINE					
MAKE Lycoming		MODEL R680-13			
OWNER'S NAME Vampeska Air Service		PERMANENT ADDRESS (Street and number, City, Zone and State) Watertown, South Dakota			
COMMENTS (Check which) <input checked="" type="checkbox"/> ACA-319 <input type="checkbox"/> ACA-337 <input type="checkbox"/> ACA-805 <input type="checkbox"/> ACA-317		<input type="checkbox"/> WEIGHT AND BALANCE REPORT <input type="checkbox"/> SPECIAL APPROVALS <input type="checkbox"/> DATA, DRAWINGS, ETC. <input type="checkbox"/> UNAPPROVED DEVIATION DATA		I CERTIFY THAT THE ABOVE STATEMENTS ARE TRUE. <i>Marvin L. Leuz</i> OWNER OR AUTHORIZED AGENT DATE: March 23, 1948 TITLE: Agent	
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 <input checked="" type="checkbox"/> YES <input type="checkbox"/> NO					
(AIRCRAFT SPECIFICATION - AIRWORTHINESS DIRECTIVE, NO(S). A-774-2 (SPECIFY)					
AUTHORITY FOR EXCEPTIONS (If any) _____					
FORM ACA-1362, CERTIFICATE OF AIRWORTHINESS, ISSUED <input type="checkbox"/> ORIGINAL <input checked="" type="checkbox"/> ANNUAL INSPECTION					
(Check whether) <input type="checkbox"/> OPERATION LIMITATIONS FORM ACA-309 WAS ISSUED, OR <input type="checkbox"/> APPROVED AIRPLANE FLIGHT MANUAL IS IN THE AIRCRAFT					
FINDINGS					
<input checked="" type="checkbox"/> AIRWORTHY <input type="checkbox"/> UNAIRWORTHY		INSPECTOR'S SIGNATURE AND <i>Lloyd Calvin McGrebin</i> CAA INSPECTOR'S SIGNATURE <i>Roy P. Williams</i>		5242 <input checked="" type="checkbox"/> ACCEPTED <input type="checkbox"/> REINSPECTED	DATE March 23, 1948 DATE 3-30-48
REASON FOR DISAPPROVAL, OR REMARKS (Indicate if you have used the reverse to continue this or other item <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No)					

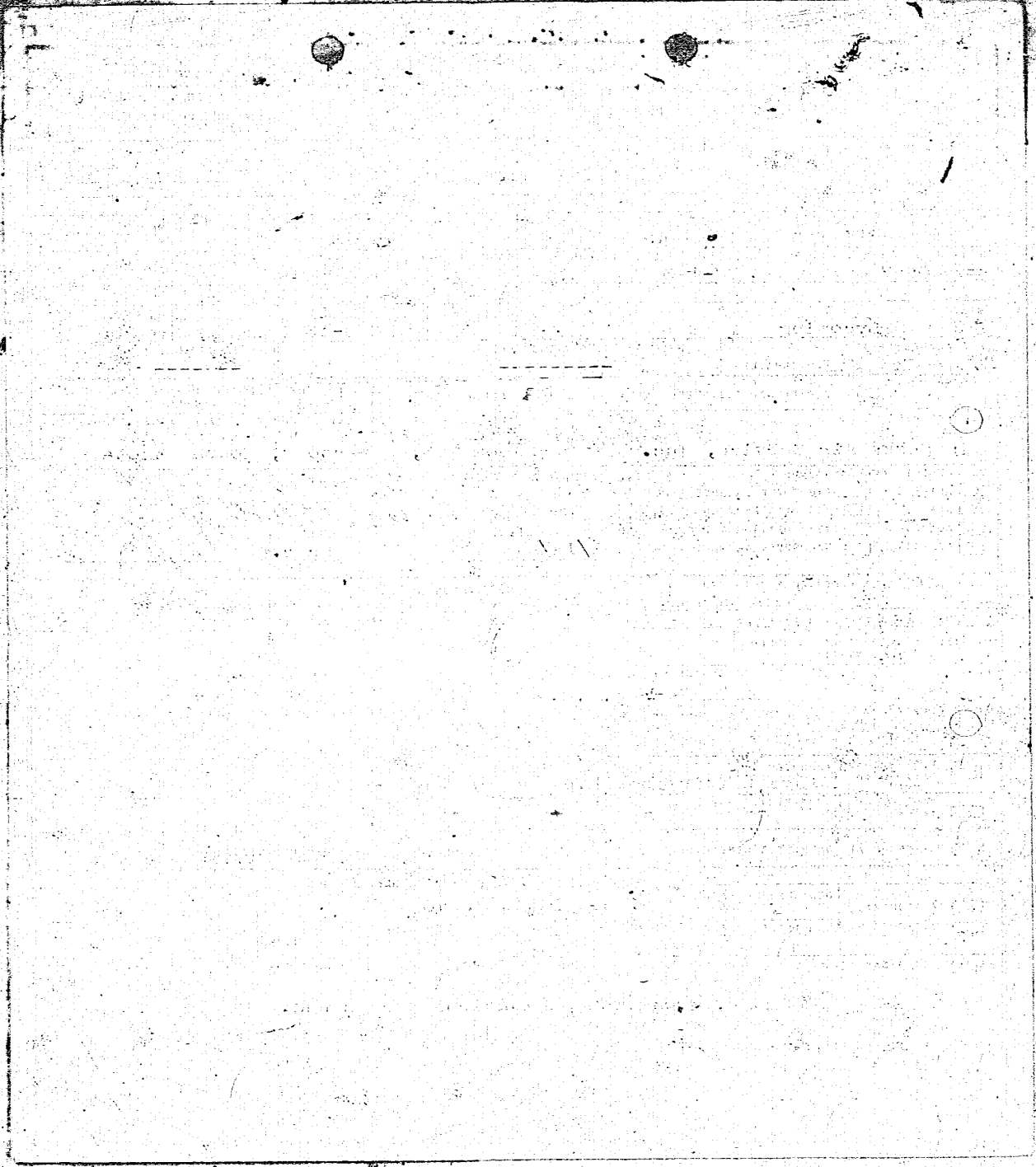
DEPARTMENT OF COMMERCE
CIVIL AERONAUTICS ADMIN.
APR 15 1 40 PM '48
MAIL ROOM - 1
WASHINGTON

RECEIVED
 GET BUREAU NO. 41-R041.2
 APPROVED EXHIBIT FEBRUARY 15, 1947
 INSTRUCTIONS
 Please submit this form to the Civil Aero-
 nautics Administration Field Representative.

FORM ACA-305 (3-7-46)		DEPARTMENT OF COMMERCE CIVIL AERONAUTICS ADMINISTRATION	
APPLICATION FOR AIRWORTHINESS CERTIFICATE AND/OR ANNUAL INSPECTION OF AN AIRCRAFT			
APPLICATION (Check) <input checked="" type="checkbox"/> AIRWORTHINESS CERTIFICATE <input type="checkbox"/> ANNUAL INSPECTION		CAA IDENTIFICATION <input checked="" type="checkbox"/> NC <input type="checkbox"/> NX <input type="checkbox"/> NR <input type="checkbox"/> OTHER (Specify)	
MAKE Consolidated Vultee		MODEL V-77 (Army AT-19)	
REGISTRATION NO. 50227	MANUFACTURER'S SERIAL NO. 77-143	DATE MANUFACTURED December 1942	
ENGINE			
MAKE Lycoming		MODEL R680E2B	<input checked="" type="checkbox"/> RATED H.P. 285
(Check whether) <input type="checkbox"/> NEW <input checked="" type="checkbox"/> USED <input type="checkbox"/> OVERHAULED		IF OVERHAULED, STATE BY WHOM DATE OF OVERHAUL	
(Check which) <input checked="" type="checkbox"/> AIRCRAFT NOW REGISTERED WITH THE ADMINISTRATION		<input type="checkbox"/> APPLICATION FOR REGISTRATION AND BILL OF SALE (FORMS ACA-501 AND 502) ATTACHED	
OWNER'S NAME Kampeska Air Service, Inc.		PERMANENT ADDRESS (Street and No., City, Zone, State) Box 863, Watertown, South Dakota	
ATTACHMENTS (Check which) <input checked="" type="checkbox"/> ACA-319 <input checked="" type="checkbox"/> WEIGHT AND BALANCE REPORT <input type="checkbox"/> ACA-337 <input type="checkbox"/> SPECIAL APPROVALS <input type="checkbox"/> ACA-805 <input type="checkbox"/> DATA, DRAWINGS, ETC. <input type="checkbox"/> ACA-317 <input type="checkbox"/> UNAPPROVED DEVIATION DATA		I CERTIFY THAT THE ABOVE STATEMENTS ARE TRUE <i>Ralph H. Trottinger</i> OWNER OR AUTHORIZED AGENT Pres.	
DATE 1/14/47		DATE	
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. EFFECTIVE NOTES A-774-1 All applicable	NO. EFFECTIVE NOTES None
OTHER (Describe)		EXCEPTIONS, IF ANY (If additional space is required, use reverse)	
<input checked="" type="checkbox"/> FORM ACA-319 (Return to owner)	APPROVED BY Lloyd Calvin McCrehin	MECH. CERTIF. AND RATING NO. A&E M57875-41	DATED March 15, 1947
<input checked="" type="checkbox"/> FORM ACA-1362 ISSUED	CERTIFICATE VALID TO (Specify date)		
<input type="checkbox"/> AIRCRAFT AIRWORTHINESS CERTIFICATE WITH OPERATION LIMITATIONS FORM (ATTACHED) WAS ISSUED			
<input checked="" type="checkbox"/> AIRWORTHY <input type="checkbox"/> UNAIRWORTHY	DESIGNEE'S SIGNATURE AND NO. <i>William J. McCall</i> 5240	DATE March 17, 1947	
	CAA INSPECTOR'S SIGNATURE <i>Roy P. Williams</i>	<input checked="" type="checkbox"/> ACCEPTED <input type="checkbox"/> REINSPECTED	DATE 7-9-47
REASON FOR DISAPPROVAL, OR REMARKS (Indicate if you have used the reverse to continue this or other item <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No)			
ACA 309 Operation Limitations was issued.			

FAA AIRCRAFT REGISTRY

CAMERA NO. SN DATE: 4-15-85



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UNITED STATES OF AMERICA DEPARTMENT OF COMMERCE CIVIL AERONAUTICS ADMINISTRATION		OPERATION LIMITATIONS			CAA IDENT. MARK NO 50227		
MAKE McCormick	MODEL R-680E3B	MAKE Cons. Valtes	MODEL V-77	DATE MFRD. Dec. 1942	SERIAL NO. 77-143	DESIGNATION Land	TYPE CERT. 774

ENGINE AND AIR SPEED LIMITS NOT TO BE EXCEEDED
(All Values Are Maximums and Are NOT RECOMMENDED OPERATING LIMITS)

ENGINE LIMITS							TRUE INDICATED AIR SPEED		
	MINUTES	ALTITUDE	IN. HG.	R. P. M.	H. P.	FUEL OCT.		M. P. H. LAND	KNOTS SEA
TAKE-OFF	One	Any	28.0	2300	300	87	CLIMB OR LEVEL FLIGHT	165	--
METO (SEA LEVEL TO ALTITUDE)	FROM ---	Any	28.0	2200	285	87	GLIDE OR DIVE <small>(Smooth Air Only)</small>	198	--
							FLAPS EXTENDED	108	--

*METO—MAXIMUM EXCEPT TAKE-OFF

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

OPERATIONS AUTHORIZED

C.G. Range is **79.6 to 792.1** at **4000 lbs.**
 C.G. Range is **784.4 to 792.1** at **3178 lbs.** with straight line variation between.
 Datum is **70 in. fwd. of wing L.E. most forward point.**
 See weight and balance data section **March 17, 1947** for loading information.

INSPECTOR'S SIGNATURE
William J. McCall
 DATE
5240

ADDITIONAL OPERATIONS AUTHORIZED YES NO (IF YES—SEE OVER)
THIS PLACARD MUST BE DISPLAYED IN VIEW OF THE PILOT
 (FOLD HERE)

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 owners responsibility to comply with all pertinent provisions of the final AIRCRAFT SPECIFICATION AND AIRWORTHINESS DIRECTIVE.

OPERATION	TYPE	CLASS	STATUS	DATE	REMARKS
COMMERCIAL	1	1	1		
GENERAL AVIATION	1	1	1		
INSTRUMENT FLIGHT	1	1	1		
EXPERIMENTAL	1	1	1		
OTHER					

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 TREASURY OF THE UNITED STATES.)