

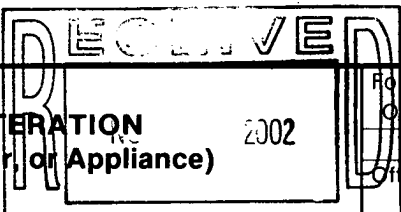


US Department of Transportation
Federal Aviation Administration

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

2002

Form Approved
OMB No. 2120-0020
For FAA Use Only
Office Identification *GL-13*



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	Beech	Model	A23A
	Serial No.	M-1042	Nationality and Registration Mark	N3658Q
2. Owner	Name (As shown on registration certificate)		Address (As shown on registration certificate)	
	Marvin A. Franson		Rt. 3, Pinewood Place Eau Claire, WI 54701	

3. For FAA Use Only

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

DEC 09 2002

[Signature] MKE-FSDO

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

6. Conformity Statement

A. Agency's Name and Address Airtronics, Inc. P. O. Box 297 Clintonville, WI 54929	B. Kind of Agency	C. Certificate No. JW5R977M
	<input type="checkbox"/> U.S. Certificated Mechanic	
	<input type="checkbox"/> Foreign Certificated Mechanic	
	<input checked="" type="checkbox"/> Certificated Repair Station	
	<input type="checkbox"/> Manufacturer	

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

Date	Signature of Authorized Individual
November 15, 2002	<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	Inspection Authorization	Other (Specify)
	FAA Designee	<input checked="" type="checkbox"/> Repair Station	Person Approved by Transport Canada Airworthiness Group	
Date of Approval or Rejection		Certificate or Designation No.	Signature of Authorized Individual	
December 10, 2002		JW5R977M	<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.)

The Garmin GPS 155XL System installation, previously approved for VFR on Form 337 dated November 12, 2002 has been updated to an IFR configuration this date. The update has been accomplished in accordance with Garmin installation manual, P/N 190-00067-22, Rev E dated 9/7/00 or later and data similar to that utilized in STC SA00503WI. The Garmin GPS 155XL receiver, P/N 010-00159-00 and GA-56 antenna, P/N 010-10051-01 are TSO' under C129, Class A1.

Steering output data from the GPS is interfaced to a Garmin GI-106A CDI thru Ameri-King AK-950 SW/Annnc. Box. This unit has been installed in accordance with the Garmin installation manual referenced above of which a schematic and/or block diagram is attached to this Form 337.

Additionally the GPS system has been evaluated and found to meet the requirement of AC 20-138, Paragraph 8(c)(iii) & (iv)(A thru K), FOLLOW-ON AIRWORTHINESS INSTALLATION APPROVALS.

A flight test was conducted on November 15, 2002 to verify non-precision approach capability, as required by 8(c)(2)(iv)(k), with the results as follows:

SURVEYED POSITION

ACTUAL FLIGHT TEST RESULTS (OBSERVED ERROR)

OSH RWY 27 GPS N43°59.49' W088°32.92'	Not greater than .01
ATW RWY 03 GPS N44°14.39' W088°31.90'	Not greater than .01
GRB RWY 18 GPS N44°29.50' W088°08.10'	Not greater than .01

A Garmin pilots operating handbook, P/N 190-00067-20, Rev. B, dated January 1999 or later and FAA Approved Flight Manual Supplement dated DEC 09 2002, must be on board this aircraft for IFR enroute, terminal, and/or non-precision approach operations when predicated upon use of the Garmin GPS 155XL. Any changes to existing computer software is considered to be a major alteration requiring revision to the flight manual supplement.

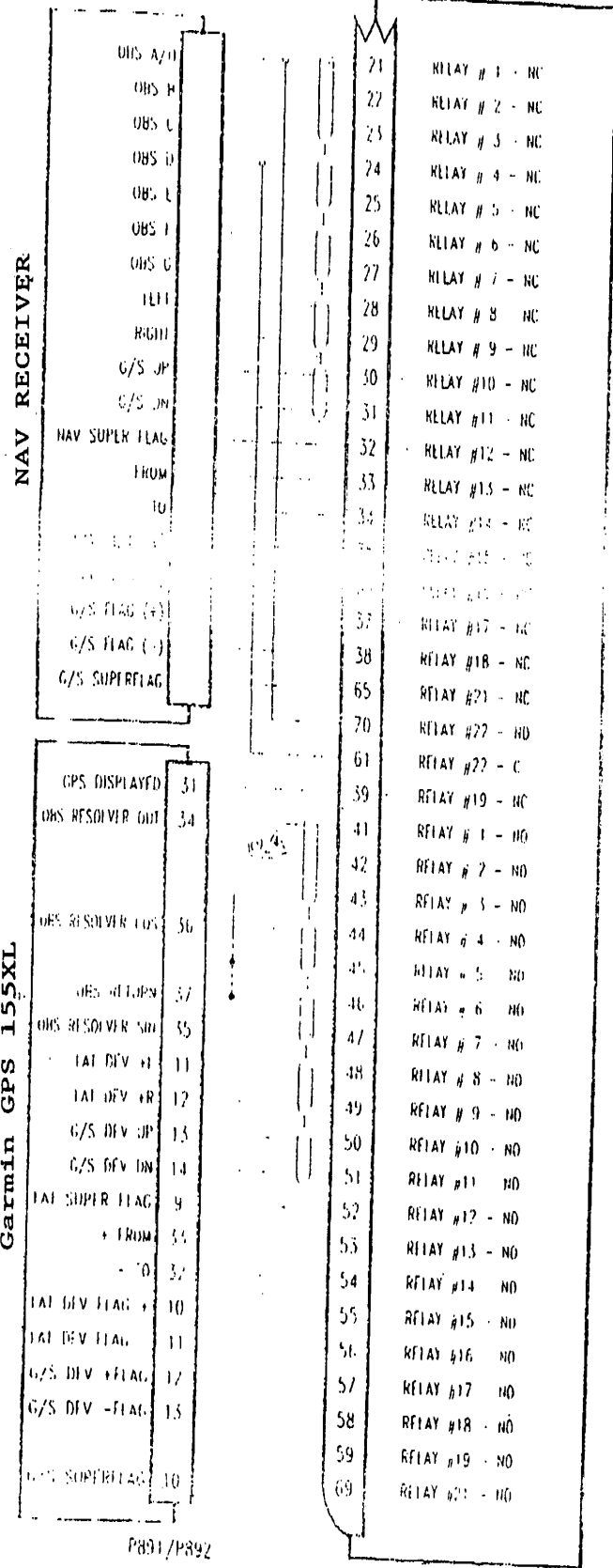
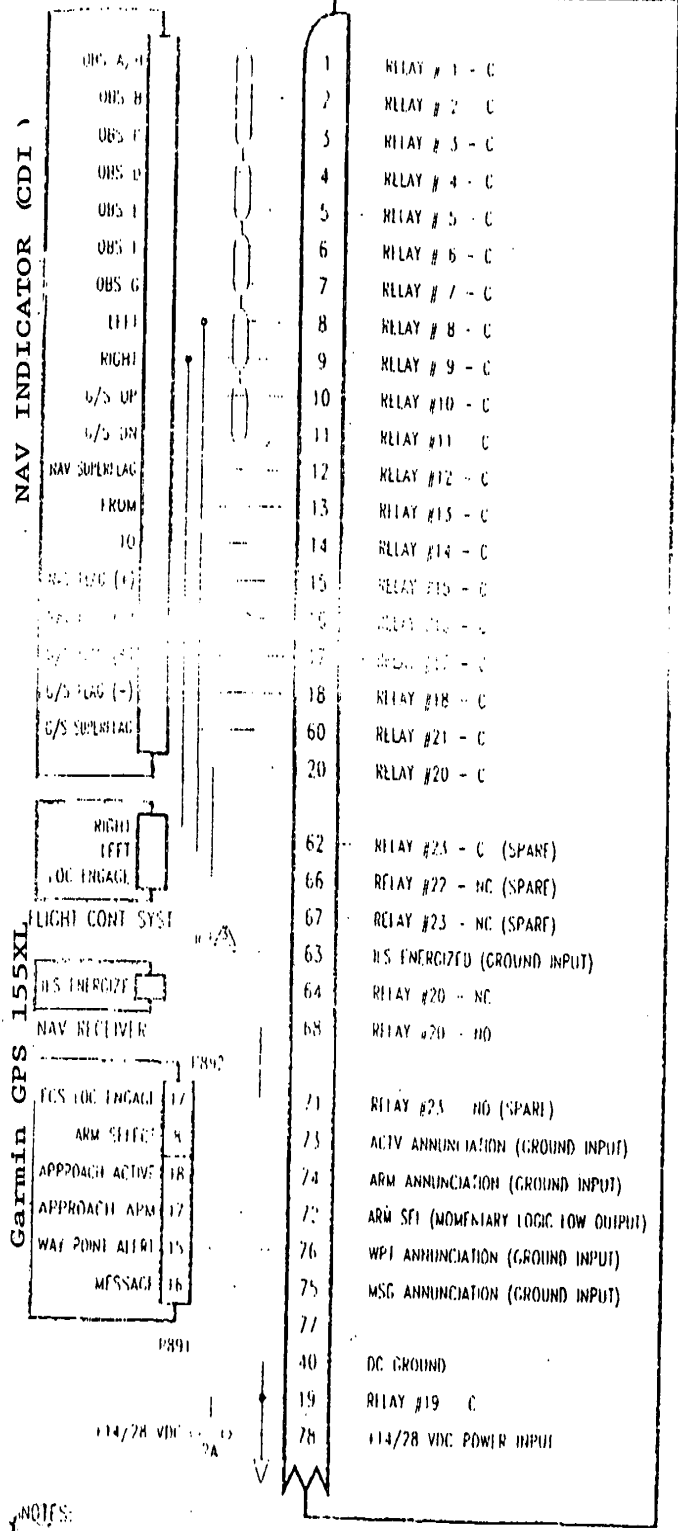
In addition to AC 20-138, this installation was accomplished in accordance with AC 43.13 - 1B, Chapter 11, and AC 43.13 - 2A, Chapter 2, with revised weight and balance reflecting this installation and entered into aircraft records.

See FAA Form 337 dated November 12, 2002 for Instructions for Continued Airworthiness.
END

Additional Sheets Are Attached

CONNECTOR AK 950 (-)

CONNECTOR AK-950 ()



- NOTES:
1. Refer to GPS Manufacturer's Installation Manual for Actual Installation.
 2. All Wires are 24 AWG minimum. Relay NC shown in NAV selected. Relay NO shown in GPS selected.
 3. Wires to be capped & stowed if ILS OVERRIDLE feature is not needed.

NOTE: Wires to be capped & stowed or grounded.

FIGURE 3-4a 1 WIRING DIAGRAM FOR AK-950-

FIGURE 3-4b 1 WIRING DIAGRAM FOR AK 950

1
2
3
4
5
6
7
8
9
10
11
12
13
14
15
16
17



US Department of Transportation
Federal Aviation Administration

DECL
NOV 1 2 2002
MAJOR REPAIR AND ALTERATION
(Name, Powerplant, Propeller, or Appliance)

Form Approved
OMB No. 2120-0020

For FAA Use Only

Office Identification

GL13

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 Beech	Model A23A
	Serial No. M-1042	Nationality and Registration Mark N3658Q
2. Owner	Name (As shown on registration certificate) Marvin A. Franson	Address (As shown on registration certificate) Rt. 3 Pinewood Place Eau Claire, WI 54701

3. For FAA Use Only

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

NOV 1 2 2002

Date

4. Unit Identification

MKE-FSDO

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

6. Conformity Statement

A. Agency's Name and Address Airtronics, Inc. P. O. Box 297 Clintonville, WI 54929	B. Kind of Agency		C. Certificate No. JW5R977M
	<input type="checkbox"/>	U.S. Certificated Mechanic	
	<input type="checkbox"/>	Foreign Certificated Mechanic	
	<input checked="" type="checkbox"/>	Certificated Repair Station	
	<input type="checkbox"/>	Manufacturer	

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

Date November 12, 2002	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	Inspection Authorization	Other (Specify)
	FAA Designee	<input checked="" type="checkbox"/> Repair Station	Person Approved by Transport Canada Airworthiness Group	

Date of Approval or Rejection November 12, 2002	Certificate or Designation No. JW5R977M	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.)

1. Introduction & Purpose: This document identifies the instructions for continued airworthiness of this aircraft by installation of a Garmin GX 155XL which is used for GPS navigation.
Referenced Pubs: Garmin GPS 155XL installation manual, P/N 190-00067-22, Rev. E, dated 9/17/00 or later
Garmin GPS 155XL maintenance Manual, P/N 190-00067-25, Rev. D, dated 4/30/99 or later
Garmin GPS 155XL pilot's guide, P/N 190-00067-20, Rev. B, dated January 1999 or later
Garmin STC #SA00503WI, FAR 23.1301, 23.1309, and 23.1431
AC 43.13 - 1B, Chapter 10, 11, & 12, AC 43.13 - 2A, Chapter 1, 2, & 3
AC 20-138, Paragraph 7(c)(i)(ii)(iii)
Distribution: This document should be a permanent aircraft record.
2. Description of Alteration: Garmin GX155XL GPS mounted at station 95.0, in left radio stack and Garmin GA-56 GPS Antenna mounted at station 231.0, top rear fuselage. Interfaced to Garmin GT-106A thru AmeriKing AK-950 SW/ANNC Box mounted at station 98.0 in left radio stack. GX-155XL receives altitude encoding information from existing Blind Encoder. GX-155XL provides steering output to S-Tec 50 Autopilot. Refer to Section 5.0 of the Garmin GPS 155XL installation manual for interconnect information. A revised weight and balance and equipment list to reflect this installation and completed entry in the aircraft maintenance records. GPS to be operated in accordance with operation instructions which have been provided to the owner/operator. The instrument panel has been placarded, in full view of the pilot, GPS FOR VFR USE ONLY.
3. Control & Operation: See pilot's guide referenced above.
4. Servicing Info: Service of the Garmin GPS 155XL is "on condition" only. Periodic service is not required. Refer to the above mentioned maintenance manual.
5. Maintenance Instructions: Reference aircraft manufacturers inspection criteria or FAR 43 appendix D(b)(c).
6. Trouble Shooting Information: Contact appropriately rated repair station.
7. Removal and Replacement Information: Refer to above referenced installation manual for specific instructions in removal and replacement.
8. Diagrams: N/A
9. Special Inspections Requirements: N/A
10. Application of Protective Treatments: N/A
11. Data Relative to Structural Fasteners: Antenna installation, removal and replacement should be in accordance with applicable provision of AC 43.13 - 1B & AC 43.13 - 2A. Also refer to Section 3.6 of Garmin GPS 155XL installation manual.
12. List of Special Tools: N/A
13. This Section is for Commuter Category Aircraft Only: N/A
14. Recommended Overhaul Periods: No additional overhaul time limitations.
15. Airworthiness Limitation Section: No additional airworthiness limitations.
16. Revision: A letter will be submitted to the local FSDO with a copy of the revised FAA Form 337 and revised ICA. The FAA inspector accepts the change by signing Block 3 and including the following statement: "The attached revised/new or superceding the Instructions for Continued Airworthiness dated _____." Once the revision has been accepted, a maintenance record entry will be made identifying the revision, its location, and date of the Form 337.
17. Assistance: N/A
18. Implementation and Records Keeping: An entry has been entered into the aircraft

END

Additional Sheets Are Attached

012804

 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 GL13			
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	Beechcraft		Model	A-23-A		
	Serial No.	M-1042		Nationality and Registration Mark	N3658Q		
2. Owner	Name (As shown on registration certificate)			Address (As shown on registration certificate)			
	Marvin A. Franson			5634 Pinewood Road Eau Claire, WI 54701			
3. For FAA Use Only							
4. Unit Identification					5. Type		
Unit	Make	Model	Serial No.	Repair	Alteration		
AIRFRAME	(As described in Item 1 above)				X		
POWERPLANT							
PROPELLER							
APPLIANCE	Type						
	Manufacturer						
6. Conformity Statement							
A. Agency's Name and Address			B. Kind of Agency		C. Certificate No.		
Airtronics, Inc. P. O. Box 297 Clintonville, WI 54929			U.S. Certificated Mechanic		JW5R977M		
			Foreign Certificated Mechanic				
			X			Certificated Repair Station	
			Manufacturer				
D. I certify that the repair and/or alteration made to the unit(s) identified in item 4 above and described on the reverse or attachments hereto have been made in accordance with the requirements of Part 43 of the U.S. Federal Aviation Regulations and that the information furnished herein is true and correct to the best of my knowledge.							
Date			Signature of Authorized Individual				
April 23, 1993			<i>Frank Kottke</i>				
7. Approval for Return To Service							
Pursuant to the authority given persons specified below, the unit identified in item 4 was inspected in the manner prescribed by the Administrator of the Federal Aviation Administration and is <input checked="" type="checkbox"/> APPROVED <input type="checkbox"/> REJECTED							
BY	FAA Fit. Standards Inspector	Manufacturer	Inspection Authorization	Other (Specify)			
	FAA Designee	X	Repair Station	Person Approved by Transport Canada Airworthiness Group			
Date of Approval or Rejection		Certificate or Designation No.	Signature of Authorized Individual				
April 23, 1993		JW5R977M	<i>Frank Kottke</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.)

Installed the following equipment:

S-Tec System 50 Autopilot System consisting of the following components:


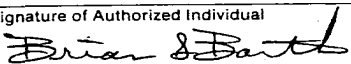
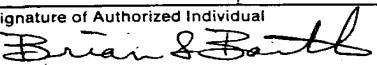
- Programmer, S/N 2037A, P/N 0131-8-0 at station 95.0
- Directional Gyro, S/N T36636G, P/N 1U262-003-14 at station 95.0
- Turn Coordinator, S/N 7631E, P/N 6405-14L at station 95.0
- Roll Servo, S/N 8399, P/N 0105-R2 at station 115.0
- Pitch Servo, S/N 6928, P/N 0107-P4 at station 215.5
- Transducer, S/N 6665A, P/N 0111 at station 210.0

The above installation was accomplished in accordance with manufacturers instructions and AC 43.13 - 1A & 2A. The weight and balance and equipment list were revised to reflect this change and entered into the aircraft records.

- A. The S-Tec System 50 Autopilot was installed in accordance with FAA Approved Bulletin No. ST215 per STC SA52465W-D.

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	
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: Beechcraft Model: A23A		Serial No.: M-1042 Nationality and Registration Mark: N3658Q	
2. Owner		Name (As shown on registration certificate): Marv Franson		Address (As shown on registration certificate): 5645 Pinewood Road Eau Claire, WI 54701	
3. For FAA Use Only					
4. Unit Identification				5. Type	
Unit	Make	Model	Serial No.	Repair	Alteration
AIRFRAME	(As described in (Item 1 above))				X
POWERPLANT					
PROPELLER					
APPLIANCE	Type				
	Manufacturer				
6. Conformity Statement					
A. Agency's Name and Address		B. Kind of Agency		C. Certificate No.	
Brian S. Barth 904 Oakmont Dr. Thief River Falls, MN 56701		<input checked="" type="checkbox"/> U.S. Certificated Mechanic <input type="checkbox"/> Foreign Certificated Mechanic <input type="checkbox"/> Certificated Repair Station <input type="checkbox"/> Manufacturer		472784553	
D. I certify that the repair and/or alteration made to the unit(s) identified in item 4 above and described on the reverse or attachments hereto have been made in accordance with the requirements of Part 43 of the U.S. Federal Aviation Regulations and that the information furnished herein is true and correct to the best of my knowledge.					
Date		Signature of Authorized Individual			
6-2-92					
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 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		Certificate or Designation No.		Signature of Authorized Individual	
6-2-92		472784553			



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

Form Approved
 OMB No. 2120-0020
 For FAA Use Only
 Office Identification
 MSP FSDO 6158CV

INSTRUCTIONS: Print or type all entries. See FAR 43.9, FAR 43 Appendix B and disposition of this form. This report is required by law (49 U.S.C. 1421) and 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: **Beechcraft**
 Serial No.: **M-1042**
 2. Owner Name (As shown on registration certificate): **Marv Franson**
 3. For FAA Use Only

Model: **A23A**
 Registration Mark: **N3658Q**
 (As shown on registration certificate)
45 Pinewood Road
Wau Claire, WI 54701

4. Unit Identification

Unit	Make	Model
AIRFRAME		(As Described in Item 1)
POWERPLANT		
PROPELLER		
APPLIANCE	Type	
	Manufacturer	

5. Type

Serial No.	Repair	Alteration
		X

6. Competency Status

A. Agent's Name and Address:
Brian S. Barth
904 Oakmont Dr.
Tiief River Falls, MN 56701

B. Kind of Agent:
 U.S. Certificated
 Foreign Certificated
 Manufacturer

D. I certify that the repair and/or alteration made to the unit(s) identified in this report have been made in accordance with the requirements of Part 43 of the Federal Aviation Regulations and the information furnished herein is true and correct to the best of my knowledge.

Date: **6-2-92** Signature of Agent: *Brian Barth*

7. Approval for Return to Service

Inspected by: **D** (Signature)
 C. User: **4727**
 10. **3**

7. Approval for Return to Service

Pursuant to the authority given persons specified below, the unit identified in this report is approved for return to service by the Administrator of the Federal Aviation Administration and is APPROVED.

BY	FAA Fit Standards Inspector	Manufacturer	X	Inspection Authority
	FAA Designee	Repair Station		Person Approved by Canada Airworthiness Authority

Date of Approval or Rejection: **6-2-92**
 Certificate or Designation No.: **472784553**
 Signature of Authority: *Brian Barth*

8. Remarks

9. If this aircraft was inspected in the manner prescribed by the Federal Aviation Regulations and the information furnished herein is true and correct to the best of my knowledge, I hereby certify that the aircraft is airworthy and safe for flight.

Signature of Authority: *Brian Barth*

NOTICE

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

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

Installed Brackett Induction Air Filter P/N BA-104 in accordance with STC SA693CE, List No.1.

END

Additional Sheets Are Attached

RECEIVED
13 1988

DEPARTMENT OF TRANSPORTATION FEDERAL AVIATION ADMINISTRATION		Form Approved Budget Bureau No. 04-R060.1	
MAJOR REPAIR AND ALTERATION (Airframe, Powerplant, Propeller, or Appliance)		FOR FAA USE ONLY	
		OFFICE IDENTIFICATION AGL-FSDO-51	
INSTRUCTIONS: Print or type all entries. See FAR 43.9, FAR 43 Appendix B, and AC 43.9-1 (or subsequent revision thereof) for instructions and disposition of this form.			
1. AIRCRAFT	MAKE Beechcraft	MODEL A 23A	
	SERIAL NO. M-1042	NATIONALITY AND REGISTRATION MARK N3658Q	
2. OWNER	NAME (As shown on registration certificate) Marvin A. Franson	ADDRESS (As shown on registration certificate) 5645 Pinewood Rd. Eau Claire, WI 54701	
	3. FOR FAA USE ONLY		
4. UNIT IDENTIFICATION			
UNIT	MAKE	MODEL	SERIAL NO.
AIRFRAME	***** (As described in item 1 above) *****		
POWERPLANT			
PROPELLER			
APPLIANCE	TYPE		
	MANUFACTURER		
5. TYPE			
	REPAIR	ALTERATION	
		XXX	
6. CONFORMITY STATEMENT			
A. AGENCY'S NAME AND ADDRESS		B. KIND OF AGENCY	C. CERTIFICATE NO.
Gary R. Johnson Rt. 1 Box 57A Elk Mound, WI 54739		<input checked="" type="checkbox"/> U.S. CERTIFICATED MECHANIC <input type="checkbox"/> FOREIGN CERTIFICATED MECHANIC <input type="checkbox"/> CERTIFICATED REPAIR STATION <input type="checkbox"/> MANUFACTURER	391382752
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 3-10-89	SIGNATURE OF AUTHORIZED INDIVIDUAL <i>Gary R. Johnson</i>		
7. APPROVAL FOR RETURN TO SERVICE			
Pursuant to the authority given persons specified below, the unit identified in item 4 was inspected in the manner prescribed by the Administrator of the Federal Aviation Administration and is <input checked="" type="checkbox"/> APPROVED <input type="checkbox"/> REJECTED			
BY	FAA RT. STANDARDS INSPECTOR	MANUFACTURER	INSPECTION AUTHORIZATION CANADIAN DEPARTMENT OF TRANSPORT INSPECTOR OF AIRCRAFT
	FAA DESIGNEE	REPAIR STATION	
DATE OF APPROVAL OR REJECTION 3-10-89	CERTIFICATE OR DESIGNATION NO. 391382752	SIGNATURE OF AUTHORIZED INDIVIDUAL <i>Gary R. Johnson</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.)

Installed Cleveland wheel and brake conversion kit 199-124
in accordance with Cleveland drawing 50-88, Revision A,
dated Nov. 10, 1983 and STC SA718GL.

END

ADDITIONAL SHEETS ARE ATTACHED

U.S. DEPARTMENT OF TRANSPORTATION FEDERAL AVIATION ADMINISTRATION				Form Approved Budget Bureau No. 04-R060.1	
MAJOR REPAIR AND ALTERATION (Airframe, Powerplant, Propeller, or Appliance)				FOR FAA USE ONLY	
INSTRUCTIONS: Print or type all entries. See FAR 43.9, FAR 43 Appendix B, and AC 43.9-1 (or subsequent revision thereof) for instructions and disposition of this form.				OFFICE IDENTIFICATION PAGE GADO-14	
1. AIRCRAFT	MAKE	BEECHCRAFT	MODEL	A-23-A	
	SERIAL NO.	M-1042	NATIONALITY AND REGISTRATION MARK.	USA N-3658Q	
2. OWNER	NAME (As shown on registration certificate)		ADDRESS (As shown on registration certificate)		
	FRANSON MARVIN A		5645 PINWOOD ROAD EAU CLAIRE, WI. 54701		
3. FOR FAA USE ONLY					
4. UNIT IDENTIFICATION					
UNIT	MAKE	MODEL	SERIAL NO.	5. TYPE	
AIRFRAME	(As described in item 1 above)			REPAIR	ALTERATION
POWERPLANT					
PROPELLER					
APPLIANCE	TYPE				
	MANUFACTURER				
5. CONFORMITY STATEMENT					
A. AGENCY'S NAME AND ADDRESS		B. KIND OF AGENCY		C. CERTIFICATE NO.	
AVIATION ELECTRONICS 590 BAYFIELD ST. ST. PAUL, MN 55107		<input type="checkbox"/> U.S. CERTIFICATED MECHANIC <input checked="" type="checkbox"/> FOREIGN CERTIFICATED MECHANIC <input checked="" type="checkbox"/> CERTIFICATED REPAIR STATION <input type="checkbox"/> MANUFACTURER		C14-42	
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	10/30/87	SIGNATURE OF AUTHORIZED INDIVIDUAL <i>[Signature]</i> A76641610			
7. APPROVAL FOR RETURN TO SERVICE					
Pursuant to the authority given persons specified below, the unit identified in item 4 was inspected in the manner prescribed by the Administrator of the Federal Aviation Administration and is <input checked="" type="checkbox"/> APPROVED <input type="checkbox"/> REJECTED					
BY	FAA FLT. STANDARDS INSPECTOR	MANUFACTURER	INSPECTION AUTHORIZATION	OTHER (Specify)	
	FAA DESIGNEE	XX REPAIR STATION	CANADIAN DEPARTMENT OF TRANSPORT INSPECTOR OF AIRCRAFT		
DATE OF APPROVAL OR REJECTION	10/30/87	CERTIFICATE OR DESIGNATION NO. C14-42	SIGNATURE OF AUTHORIZED INDIVIDUAL <i>[Signature]</i> A76641610		

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.)

AVIATION ELECTRONICS FAA CRS C14-42

INSTALLED THE FOLLOWING:

DISCRIPTION	REFERENCE
INSTALLED ENCODER	7421
MISC. ITEMS	AC-43-13-2A

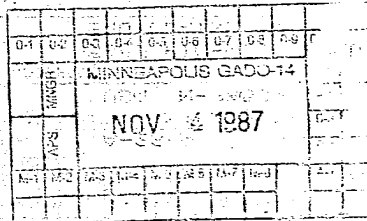
The above installation conforms to approved methods ie AC-43-13-2A where applicable, chapter 2, paragraph 23, section; a, b, c, d, paragraph 27, section; a, b, c, d, e. Ramp and flight checked above installation, installed systems perform to manufactures specifications, and doesn't interfere with other aircraft systems. Added electrical load doesn't exceed aircraft charging system capabilities. Updated aircraft weight and balance to reflect these changes, and made appropriate log book entries.

Certified as per FAA FAR 91.171, in accordance with procedures outlined in appendix E of FAR 43.

Certified as per FAA FAR 91.172, in accordance with procedures outlined in appendix F of FAR 43.

-----END-----

Alan J. Aire
 ALAN J. AIRE 476641610
 10/30/87



ADDITIONAL SHEETS ARE ATTACHED

1252-1497 37 JUL 28 '67

37 JUL 21 1967
Form Approved
Budget Bureau No. 04-R058.2

FEDERAL AVIATION AGENCY APPLICATION FOR AIRWORTHINESS CERTIFICATE (FAR 21)		INSTRUCTIONS: Print or type. Do not write in shaded areas; these are for FAA use only. Submit original only to an authorized FAA Representative. If additional space is required, use reverse side.	
I. AIRCRAFT DESCRIPTION		FAA CODING	
1. REGISTRATION MARK N3658Q	2. AIRCRAFT MAKE BEECHCRAFT	3. AIRCRAFT MODEL DESIGNATION A23A	1151208
4. AIRCRAFT SERIAL NO. M-1042	5. ENGINE MAKE Continental	6. ENGINE MODEL DESIGNATION IO-346A	17033
7. NO. OF ENGINES 1	8. PROPELLER MAKE Sensenich	9. PROPELLER MODEL DESIGNATION M74DC-0-60	10. YR. AIRC. MANUFACTURED 1967
II. CERTIFICATION REQUESTED			
A. APPLICATION IS HEREBY MADE FOR:			
<input checked="" type="checkbox"/> ORIGINAL CERTIFICATE—AIRCRAFT IS		<input checked="" type="checkbox"/> NEW	
<input type="checkbox"/> AMENDMENT OR MODIFICATION OF CURRENT CERTIFICATE		<input type="checkbox"/> USED	
<input type="checkbox"/> OTHER (Specify)		<input type="checkbox"/> IMPORT	
B. AIRWORTHINESS CLASSIFICATION (For multiple certification, check appropriate items)			
<input checked="" type="checkbox"/> STANDARD (Indicate category)		<input checked="" type="checkbox"/> NORMAL	
<input type="checkbox"/> LIMITED		<input type="checkbox"/> UTILITY	
<input type="checkbox"/> RESTRICTED (Indicate operation(s) to be conducted)		<input type="checkbox"/> ACROBATIC	
<input type="checkbox"/> EXPERIMENTAL (Indicate operation(s) to be conducted)		<input type="checkbox"/> TRANSPORT	
<input type="checkbox"/> PROVISIONAL (Indicate class)		<input type="checkbox"/> CLASS I	
<input type="checkbox"/> AGRICULTURE & PEST CONTROL		<input type="checkbox"/> AERIAL SURVEYING	
<input type="checkbox"/> FOREST (Wild life conservation)		<input type="checkbox"/> AERIAL ADVERTISING	
<input type="checkbox"/> OTHER (Specify)		<input type="checkbox"/> PATROLLING	
<input type="checkbox"/> RESEARCH AND DEVELOPMENT		<input type="checkbox"/> WEATHER CONTROL	
<input type="checkbox"/> RACING		<input type="checkbox"/> AMATEUR BUILT	
<input type="checkbox"/> CLASS II		<input type="checkbox"/> EXHIBITION	
<input type="checkbox"/> TO SHOW COMPLIANCE WITH FAR		<input type="checkbox"/> FAA CODING	
A. REGISTERED OWNER (As shown on Certificate of Aircraft Registration)			
NAME BEECH AIRCRAFT CORPORATION		ADDRESS (Number, street, city, State and ZIP code) 9709 East Central Wichita, Kansas 67201	
B. AIRCRAFT CERTIFICATION BASIS			
<input checked="" type="checkbox"/> AIRCRAFT SPECIFICATION OR TYPE CERTIFICATION DATA SHEET (Give No. and Rev. No.) ALICE Rev. 7, Master Equipment		<input type="checkbox"/> AIRWORTHINESS DIRECTIVE SUMMARY (Give year and last card No.)	
<input type="checkbox"/> AIRCRAFT LISTING (Give page No(s.))		<input type="checkbox"/> SUPPLEMENTAL TYPE CERTIFICATE (Give No(s.))	
C. AIRCRAFT OPERATION AND MAINTENANCE RECORDS			
<input checked="" type="checkbox"/> AIRCRAFT NEW—NO PREVIOUS HISTORY		TOTAL AIRFRAME HOURS RECORDED	
<input type="checkbox"/> RECORDS MAINTAINED IN COMPLIANCE WITH FAR 91.173		FAA CODING	
I hereby certify that I am the registered owner (or his agent) of the aircraft described above; that the aircraft is registered with the Federal Aviation Agency in accordance with section 501 of the Federal Aviation Act of 1958, and applicable Federal Aviation Regulations; and that the aircraft has been inspected and is airworthy and eligible for the classification(s) requested.			
DATE OF APPLICATION 7 June 1967	NAME AND TITLE (Print or type) A. D. Hook - Crew Chief	SIGNATURE <i>A. D. Hook</i>	
IN ACCORDANCE WITH FAR 21.183, THE AIRCRAFT DESCRIBED ABOVE HAS BEEN INSPECTED AND FOUND AIRWORTHY BY:			
<input checked="" type="checkbox"/> CERTIFICATED AIR CARRIER (Give Certificate No.)		<input type="checkbox"/> CERTIFICATED MECHANIC (IA) (Give Certificate No.)	
<input type="checkbox"/> AIRCRAFT MANUFACTURER (Give name of firm)		<input type="checkbox"/> CERTIFICATED DOMESTIC REPAIR STATION (Give Certificate No.)	
DATE		SIGNATURE	
		<i>A. D. Hook</i>	
V. AIRWORTHINESS DOCUMENTATION			
<input checked="" type="checkbox"/> A. CURRENT OPERATING LIMITATIONS AVAILABLE IN AIRCRAFT		<input checked="" type="checkbox"/> G. THIS INSPECTION RECORDED IN AIRCRAFT RECORDS	
<input type="checkbox"/> B. CURRENT OPERATING LIMITATIONS ATTACHED		<input type="checkbox"/> H. STATEMENT OF CONFORMITY, FAA FORM 317 (Attach when required)	
<input type="checkbox"/> C. CURRENT APPROVED FLIGHT MANUAL AVAILABLE IN AIRCRAFT		<input type="checkbox"/> I. PREVIOUS AIRWORTHINESS CERTIFICATE ISSUED IN ACCORDANCE WITH FAR _____ CAR _____ (Orig. attached)	
<input type="checkbox"/> D. DATA, DRAWINGS, PHOTOGRAPHS, ETC. (Attach when required)		<input type="checkbox"/> J. AIRWORTHINESS CERTIFICATE ISSUED IN ACCORDANCE WITH FAR _____ (a) _____ (Copy attached)	
<input checked="" type="checkbox"/> E. CURRENT WEIGHT & BALANCE INFORMATION AVAILABLE IN AIRCRAFT			
<input type="checkbox"/> F. MAJOR REPAIR AND ALTERATION, FAA FORM 337 (Attach when req.)			
VI. FAA REPRESENTATIVE CERTIFICATION			
<input checked="" type="checkbox"/> A. I have inspected the aircraft described above, find it conforms to its type certificate, and is in condition for safe operation.			
<input type="checkbox"/> B. I have inspected the aircraft described above, find it is in condition for safe experimental operation.			
<input type="checkbox"/> C. Current Airworthiness Certificate amended.			
DATE 7 June 1967	DESIGNATION NO. DOA CE-2	OFFICE NO. 10T EMDO 3-0-43	SIGNATURE Chester A. Rembleske BEECH AIRCRAFT CORPORATION

MK2RO

[Faint, mostly illegible text and markings on a grid background]

[Faint circular stamp]

[Faint handwritten text]

[Faint printed text]

UNITED STATES OF AMERICA — FEDERAL AVIATION AGENCY
STANDARD AIRWORTHINESS CERTIFICATE

1. NATIONALITY AND REGISTRATION MARKS N3658Q	2. MANUFACTURER AND MODEL BECH AIRCRAFT CORPORATION A23A	3. AIRCRAFT SERIAL NUMBER 44-1042	4. CATEGORY Normal & Utility
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 it has been issued 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 B to the Convention on International Civil Aviation, except as noted herein. Exceptions: None			
6. TERMS AND CONDITIONS Unless sooner surrendered, suspended, revoked, or a termination date is otherwise established by the Administrator, this airworthiness certificate is effective as long as the maintenance, preventive maintenance, and alterations are performed in accordance with Parts 25, 26, 27, 29, 31, and 33 of the Federal Aviation Regulations, as appropriate, and the aircraft is registered in the United States.			
DATE OF ISSUANCE 7 June 1967	FAA REPRESENTATIVE Charles E. Remblee BECH AIRCRAFT CORPORATION	DESIGNATION NUMBER DOA CE-2	
Any alteration, reproduction, or misuse of this certificate may be punishable by a fine not exceeding \$1,000, or imprisonment not exceeding 3 years, or both. THIS CERTIFICATE MUST BE DISPLAYED IN THE AIRCRAFT IN ACCORDANCE WITH APPLICABLE FEDERAL AVIATION REGULATIONS.			

FAA AIRCRAFT REGISTRY
CAMERA NO. *11* DATE: 5-16-84

MICRO

DEPARTMENT OF TRANSPORTATION FEDERAL AVIATION ADMINISTRATION MAJOR REPAIR AND ALTERATION (Airframe, Powerplant, Propeller, or Appliance)	Form Approved Budget Bureau No. 04-R060.1 FOR FAA USE ONLY OFFICE IDENTIFICATION CL-18
--	--

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

1. AIRCRAFT	MAKE Beechcraft	MODEL A23A	NATIONALITY AND REGISTRATION MARK N3658Q
	SERIAL NO. M-1042		
2. OWNER	NAME (As shown on registration certificate) Elkhart Flying Club, Inc.		ADDRESS (As shown on registration certificate) 56499 Eastvue Osceola, Indiana 46561

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	B. KIND OF AGENCY	C. CERTIFICATE NO.
Darrell E. Campbell 52873 Ash Rd. Granger, Indiana 46530	<input checked="" type="checkbox"/> U.S. CERTIFICATED MECHANIC	A&P 1521926
	<input type="checkbox"/> FOREIGN CERTIFICATED MECHANIC	
	<input type="checkbox"/> CERTIFICATED REPAIR STATION	
	<input type="checkbox"/> MANUFACTURER	

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

DATE August 5, 1973	SIGNATURE OF AUTHORIZED INDIVIDUAL <i>Darrell E. Campbell</i>
-------------------------------	--

7. APPROVAL FOR RETURN TO SERVICE

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

BY	FAA FLT. STANDARDS INSPECTOR	MANUFACTURER	<input checked="" type="checkbox"/>	INSPECTION AUTHORIZATION	OTHER (Specify)
	FAA DESIGNEE	REPAIR STATION		CANADIAN DEPARTMENT OF TRANSPORT INSPECTOR OF AIRCRAFT	
DATE OF APPROVAL OR REJECTION August 5, 1973		CERTIFICATE OR DESIGNATION NO. IA 1521926		SIGNATURE OF AUTHORIZED INDIVIDUAL <i>Darrell E. Campbell</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.)

Repaired bottom left inboard wing panel with factory provided panel and installed as per AC 43.13-1A, Section 3, figure 2.24B and paragraph 100 d.

END

REPAIRER: [Signature]
DATE: 5-16-84
DELEGATE: [Signature]

ADDITIONAL SHEETS ARE ATTACHED