



US Department
of Transportation
Federal Aviation
Administration

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

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

Electronic Tracking Number

For FAA Use Only

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

1. Aircraft	Nationality and Registration Mark N3275F	Serial No. 670368
	Make MOONEY	Model M20
2. Owner	Name (As shown on registration certificate) WILLIAMS, RICHARD S	Address (As shown on registration certificate) Address 81 FLIGHT LINE DR City FREDERICKSBURG State VA Zip 22405 Country USA

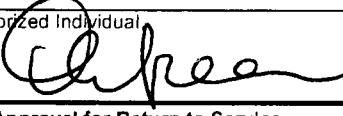
3. For FAA Use Only

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	_____	_____
<input type="checkbox"/>	<input type="checkbox"/>		Manufacturer		

6. Conformity Statement

A. Agency's Name and Address		B. Kind of Agency		
Name DAVID W GREEN	Address 160 E AIRPORT AVE	<input checked="" type="checkbox"/> U. S. Certificated Mechanic	Manufacturer	
City VENICE	State FL	Foreign Certificated Mechanic	C. Certificate No.	
Zip 34285	Country USA	Certificated Repair Station		
		Certificated Maintenance Organization	AP2809540	

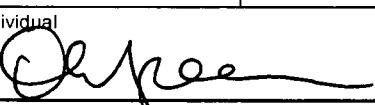
D. I certify that the repair and/or alteration made to the unit(s) identified in item 5 above and described on the reverse or attachments hereto have been made in accordance with the requirements of Part 43 of the U.S. Federal Aviation Regulations and that the information furnished herein is true and 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 David W Green	
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7. Approval for Return to Service

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

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

Certificate or Designation No. IA2809540	Signature/Date of Authorized Individual David W Green 7-27-08	
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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

N3275F

7-27-08

Nationality and Registration Mark

Date

INSTALLED MOONEY MART SMOOTH BELLY MODIFICATION STC SA01310AT IN ACCORDANCE WITH
INSTALLATION AND DRAWING LIST DOCUMENT 01-SK-OPBL. INSTALLATION IS A DUPLICATE OF A
MOONEY FACTORY INSTALLATION, USE MOONEY M20J SERVICE AND PARTS MANUALS FOR
REFERENCE AND INSTRUCTIONS FOR CONTINUED AIRWORTHINESS. WEIGHT AND BALANCE AND
EQUIPMENT LIST UPDATED THIS DATE.

-----END-----

United States of America
Department of Transportation - Federal Aviation Administration

Supplemental Type Certificate

Number SAD1310AT

This certificate issued to
MOONEY MART
100 AIRPORT AVE.
VENICE, FL 34285

certifies that the change in the type design for the following product with the limitations and conditions
hereinafter specified herein meets the aeronautical requirements of Part 3 of the Civil Air Regulations.

Original Product - Type Certificate Number : 2A3

Make : Mooney

Model : M20B,C,E,F,G,J,K

Description of Type Design Change:

Installation of a mooney one-piece lower fuselage skin, p/n 310322, and related attachment structure in accordance with
Mooney Mart installation instructions, document no. 01-k-001, dated January 1, 1997, or later FAA approved revision.

DO NOT Duplicate

Limitations and Conditions: Compatibility of this design change with previously approved modifications must be
determined by the installer.

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

Date of application : January 08, 1997

Date reissued :

Date of issuance : March 24, 1997

Date amended : October 09, 1998



FOR

By direction of the Administrator
Loyd W. Barker
(Signature)

Paul C. Sconyers
Associate Manager, ACE-117A
Atlanta Aircraft Certification Office

(Title)

Any alteration of this certificate is prohibited by law unless it is certified by the Administrator or his/her designee that such alteration does not exceed 2 years, or both.
This form consists of 2 pages. Page 1 of 2. This page is to be retained by the certifying authority. Any other copy of this page is to be retained with FAR 21.17.



US Department
of Transportation
Federal Aviation
Administration

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

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

Electronic Tracking Number

For FAA Use Only

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

1. Aircraft	Nationality and Registration Mark N3275F	Serial No. 670368
	Make MOONEY	Model M20
2. Owner	Name (As shown on registration certificate) WILLIAMS, RICHARD S	Address (As shown on registration certificate) Address 81 FLIGHT LINE DR
		City FREDERICKSBURG State VA Zip 22405 Country USA

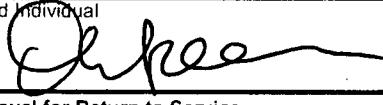
3. For FAA Use Only

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	_____	_____
<input type="checkbox"/>	<input type="checkbox"/>		Manufacturer		

6. Conformity Statement

A. Agency's Name and Address		B. Kind of Agency		
Name DAVID W GREEN		<input checked="" type="checkbox"/> U. S. Certificated Mechanic		
Address 160 E AIRPORT AVE		Manufacturer		
City VENICE State FL		<input type="checkbox"/> Foreign Certificated Mechanic		
Zip 34285 Country USA		<input type="checkbox"/> Certificated Repair Station		
		<input type="checkbox"/> Certificated Maintenance Organization		
		C. Certificate No. AP2809540		

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 David W Green	
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7. Approval for Return to Service

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

BY	FAA Flt. Standards Inspector	Manufacturer	Maintenance Organization	Persons Approved by Canadian Department of Transport	
	FAA Designee	Repair Station	<input checked="" type="checkbox"/> Inspection Authorization	Other (Specify)	
Certificate or Designation No. IA2809540		Signature/Date of Authorized Individual David W Green 7-27-08			

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

N3275F

7-27-08

Nationality and Registration Mark Date

INSTALLED HARTZELL TOP PROP CONVERSION PROPELLER MODEL HC-C2YR-1BFP S/N CH43172B
AND SPINNER 835-54(P) IN ACCORDANCE WITH STC SA02414CH-D AND INSTALLATION INSTRUCTIONS
011007. FAA APPROVED FLIGHT MANUAL SUPPLEMENT AFMS_011007_2 REV. JULY 12, 2007 AND
PLACARD INSTALLED. WEIGHT AND BALANCE AND EQUIPMENT LIST UPDATED. FOR INSTRUCTIONS
FOR CONTINUED AIRWORTHINESS SEE HARTZELL ICA_0110007.

----- END -----

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

Supplemental Type Certificate

Number SA02414CH-D

This certificate
issued to

Hartzell Propeller Inc.
One Propeller Place
Piqua, OH 45356-2634

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 of the Civil Air Regulations. (See Type Certificate Data Sheet 2A3 for the complete certification basis).

Original Product-Type Certificate Number: 2A3

Make: Mooney Airplane Company, Inc.

Model: M20A, M20B, M20C, M20D, M20E, M20F,
M20G, M20J

Description of Type Design Change:

Installation of the Hartzell propeller model HC-C2YR-1BFP/F7497 and Hartzell 835-54(P) or A-2295-5(P) spinner in accordance with Hartzell STC Installation Instructions INST_011007 dated July 12, 2007, or later FAA Approved revisions.

Limitations and Conditions:

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

(Continued....)

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.

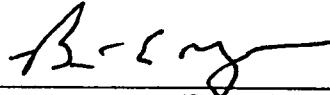
Date of application : January 10, 2007

Date reissued :

Date of issuance : July 12, 2007

Date amended :

By direction of the Administrator



(Signature)

Brian E. Meyer
DAS administrator
Hartzell DAS-100082-CE

(Title)

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

United States of America
Department of Transportation - Federal Aviation
Administration

Supplemental Type
Certificate
(Continuation Sheet)

STC SA02414CH-D
Date of issuance: July 12, 2007

Limitations and Conditions continued...

2. Airplane Flight Manual Supplement AFMS_011007_1 is required for M20A, M20B, M20C, M20D, and M20G aircraft.
3. Airplane Flight Manual Supplement AFMS_011007_2 is required for M20E and M20F aircraft.
4. Airplane Flight Manual Supplement AFMS_011007_3 is required for M20J aircraft.
5. Instructions for Continued Airworthiness ICA_011007 are applicable.
6. This modification did not increase the noise level and was not considered an acoustical change as defined in 14 CFR 21.93(b).
7. 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.

...END...



Hartzell Propeller Inc.
One Propeller Place
Piqua, OH 45356-2634 USA
Tel: +1-937-778-4200
Fax: +1-937-778-4215
www.hartzellprop.com

Hartzell Top Prop Performance Conversions

Authorization For Use of STC Document

This Supplemental Type Certificate is the property of Hartzell Propeller, Inc. Hartzell Propeller, Inc. authorizes the use of the STC data only for the aircraft specified below. Any use of this STC beyond the aircraft specified below is a violation of proprietary laws and is subject to legal action.

Please keep the STC, installation instructions, Flight Manual Supplement, and this authorization sheet, in a secure location. There will be a charge for issuing replacement documents.

STC Number: SA02414CH-D

Aircraft Model: MOONEY M20F

Serial Number: B670368

Aircraft Registration: N3275F

Date Issued: 2/15/08

Issued by: Erinn Hemmert

Erinn Hemmert
Customer Service Representative

Hartzell Top Prop Performance Conversions

Hartzell Customer Reference: CO 107990 AVIATION PROPELLERS

11/5/9

Hartzell Propeller Inc.
One Propeller Place
Piqua, OH 45356

Page 1 of 3
1/10/07

ICA_011007

**INSTRUCTIONS FOR CONTINUED AIRWORTHINESS
FOR**

HARTZELL HC-C2YR-1BFP/F7497 PROPELLER

AND 835-54(P) OR A-2295-5(P) SPINNER ON MOONEY M20(A-G,J) AIRCRAFT

STC SA02414CH-D

LOG OF REVISIONS

Revision	Revised Pages	Description of Revision	Date
New	All	Original Release	1/10/07

NOTE: All changes are indicated by a black vertical line along the left margin.

ICA_011007

**INSTRUCTIONS FOR CONTINUED AIRWORTHINESS
FOR
HARTZELL HC-C2YR-1BFP/F7497 PROPELLER
AND 835-54(P) OR A-2295-5(P) SPINNER ON MOONEY M20(A-G,J) AIRCRAFT**

STC SA02414CH-D

Section 1-3 General Information – Propeller

The Hartzell HC-C2YR-1BFP/F7497 propeller for the Mooney M20(A-G,J) is a constant speed, variable pitch propeller, controlled by a governor that is set by the pilot for constant RPM operation.

Aircraft Model	M20A-D, G	M20E, F, J
Propeller Mfg.	Hartzell	Hartzell
Type	Constant Speed	Constant Speed
Model	HC-C2YR-1BFP	HC-C2YR-1BFP
Blade	F7497	F7497
Pitch Angle (High)	29.0 ± 1.0°	29.0 ± 1.0°
Pitch Angle (Low)	12.5 ± 0.2°	13.6 ± 0.2°
Diameter	74" Maximum 72.5" Minimum	74" Maximum 72.5" Minimum
Approved Governors	See TCDS 2A3 or TCDS P-920	See TCDS 2A3 or TCDS P-920

Additional propeller information can be found in Hartzell Propeller Owner's Manual 115N.

For Product Support contact:

Address: **Hartzell Propeller Inc.**
 One Propeller Place
 Piqua, Ohio 45356-2634
 USA

Phone: (937) 778-4379 or
 1-800-942-7767

E-mail: techsupport@hartzellprop.com

Internet: www.hartzellprop.com

ICA_011007

**INSTRUCTIONS FOR CONTINUED AIRWORTHINESS
FOR
HARTZELL HC-C2YR-1BFP/F7497 PROPELLER
AND 835-54(P) OR A-2295-5(P) SPINNER ON MOONEY M20(A-G,J) AIRCRAFT**

STC SA02414CH-D

Section 2 – Ground Handling, Service & Inspection

WARNING: DO NOT use a "yoke jack" under the propeller to jack or raise the aircraft nose.

Airworthiness Limitations

NOTE: The Airworthiness Limitations section is FAA approved and specifies maintenance required under Secs. 43.16 and 91.403 of the Federal Aviation Regulations unless an alternative program has been FAA approved.

There are no life-limited components used in the STC installation.

Section 2-37 – Propeller Inspection

All required maintenance, troubleshooting, inspections, time intervals and procedures are provided in Hartzell Propeller Owner's Manual 115N that is provided with each propeller. Recommended Time-Between-Overhaul (TBO) limits for the STC propeller are also provided in Hartzell Service Letter 61.

The propeller diameter is 74". Field repair of small nicks and scratches may be performed by qualified personnel in accordance with FAA AC 43-13-1() as well as procedures specified in Hartzell Propeller Owner's Manual 115N. Propeller overhaul must be accomplished by an approved Propeller Repair Station.

Section 3-5 – Propeller Installation & Removal

Refer to the STC Installation Instructions INST_011007 and Hartzell Propeller Owner's Manual 115N for propeller installation and removal procedures. Reference procedures for "K" and "R" flange propellers.



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 MOONEY	Model M20F
	Serial No. 670368	Nationality and Registration Mark N3275F
2. Owner	Name (As shown on registration certificate) FERGUSON RONNEY	Address (As shown on registration certificate) 13 COLLINS CREST CT GREENVILLE SC 29607

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.
LAKE AERO STYLING & REPAIR 4725 HIGHLAND SPRINGS RD LAKEPORT CA 95453-9775	U.S. Certificated Mechanic	NT3R722L L-AF, L-PRP, L-SS L-PP
	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 11-20-97	Signature of Authorized Individual <i>Paul E. Lauer</i>		
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7. Approval for Return To Service

Pursuant to the authority given persons specified below; the unit identified in item 4 was inspected in the manner prescribed by the Administrator of the Federal Aviation Administration and is <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 11-20-97		Certificate or Designation No. NT3R722L	Signature of Authorized Individual <i>Paul E. Lauer</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.)

REPAIR OF THE LEFT WING AREA BY REPLACING THE FOLLOWING PARTS:

210120-001	RIB, T/E (STA 43.5)
210120-011	RIB, T/E, STIFFENER, BOW
210120-015	RIB, T/E, ANGLE, EXTENSION
220000-161	WING SKIN, FUEL TANK, LH (Sta 24.5-59.25)
220000-145	WING SKIN, LH (147.75-195.3)
220000-147	WING SKIN, LH, TIP (195.3-210.97)

REPAIR BY INSTALLING A DOUBLER OF ALUM 2024T3-.032 MATERIAL ON THE FRWD AND AFT FACE OF THE WING SPAR WEB BETWEEN LEFTHAND WING STATIONS 163.0 AND 168.0. A VERTICAL ANGLE 3/4 X 3/4 OF 2024T3-.032 WAS INSTALLED ON THE FRWD SIDE OF THE SPAR WEB AT LH Sta 165.25.

REPAIR WAS ACCOMPLISHED IAW MOONEY AIRCRAFT CORP SERVICE MANUAL NO. 133, CHAPTER 57, AND AC 43.13-1A para 95 thru 99, AS APPROPRIATE. ALL HARDWARE IAW MOONEY CORP PARTS MANUAL.

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

ZOMH

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 Mooney	Model M20-F
	Serial No. 67-0368	Nationality and Registration Mark N3275F
2. Owner	Name (As shown on registration certificate) CDM Aviation, Inc.	Address (As shown on registration certificate) 3511 Silverside Rd. Wilmington, De. 19810-4902

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 O'Neal Holsonback 1500 Cargo Rd. Bushfield Airport Augusta, Ga. 30906	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. 247848121 A&P
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D. I certify that the repair and/or alteration made to the unit(s) identified in item 4 above and described on the reverse or attachments hereto have been made in accordance with the requirements of Part 43 of the U.S. Federal Aviation Regulations and that the information furnished herein is true and correct to the best of my knowledge.

Date <i>1-20-06</i>	Signature of Authorized Individual <i>O'Neal Holsonback</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	X	Inspection Authorization	Other (Specify)
	FAA Designee	Repair Station		Person Approved by Transport Canada Airworthiness Group	

Date of Approval or Rejection <i>1-20-06</i>	Certificate or Designation No. <i>247848121 IA</i>	Signature of Authorized Individual <i>O'Neal Holsonback</i>
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NOTICE

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

8. Description of Work Accomplished

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

Installed Challenger Re-useable Air Filter in accordance with STC SA01669CH and installation instructions. Made logbook entries. No weight or balance change.

-----END-----

Additional Sheets Are Attached

01-12-06

ISSUED TO: C D M AVIATION, INC.
A/C MODEL: M20F
S/N: 67-0368
N3275F

United States of America
Department of Transportation — Federal Aviation Administration

Supplemental Type Certificate

Number SA01669CH

This certificate is issued to

Challenger Aviation Products, Inc.
3530 Lightner Road
Vandalia, OH 45377

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

Original Product - Type Certificate Number : *See attached FAA Approved Model List (AML)

Model : * No. SA01669CH for list of Approved airplane models
Model : * and applicable airworthiness regulations.

Description of Type Design Change:

Installation of Challenger Re-useable Air Filters in accordance with Installation Instructions on AML No. SA01669CH, issued July 3, 2002, or later FAA approved revision.

Limitations and Conditions:

1. Compatibility of this design change with previously approved modifications must be determined by the installer.
2. A copy of this Certificate and FAA Approved Model List (AML) No. SA01669CH issued July 3, 2002, or later FAA approved revision, must be maintained as part of the permanent records for the modified aircraft.
3. Installer must use Challenger Air Filter Cleaning Instructions (Instructions for Continued Airworthiness) Document #4003, Revision C, dated March 9, 2004, or later FAA approved revision.
4. If the holder agrees to permit another person to use this certificate to alter the product, the holder shall give the other person written evidence of that permission.

This certificate and the supporting data which is the basis for approval shall remain in effect until

Date of application - November 9, 2001

Date issued - May 18, 2004

Date of issuance - July 3, 2002

Date amended - March 10, 2004; May 3, 2004; May 27, 2004; December 10, 2004

surrendered, suspended, revoked or a termination date



is otherwise established by
the
Administrator of the Federal
Aviation
Administration

Thaddeus D. Krolicki, Jr.
(Signature)

Thaddeus D. Krolicki, Jr.
Manager, Propulsion Branch
Chicago Aircraft Certification Office

(Title)

Any alteration of this certificate is punishable by a fine of not exceeding \$1,000, or imprisonment not exceeding 3 years, or both.
FAA FORM 8110-2 (10-68) PAGE 1 OF 2 PAGES THIS CERTIFICATE MAY BE TRANSFERRED IN ACCORDANCE WITH FAR 31.47.

Authorized Challenger Representative

Inv# _3139 MOA

For Questions regarding this STC please contact:
Challenger Aviation Products, Inc.
PO Box 577
Vandalia OH 45377
937-667-0510

Permission for Use of STC Document

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



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 WP-27 BN

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 MOONEY	Model M20F
	Serial No. 670368	Nationality and Registration Mark 3275F
2. Owner	Name (As shown on registration certificate) BERSTIEN ALLEN S BERNSTIEN DIANA	Address (As shown on registration certificate) 312 CALLE LINDA SEDONA AZ 86336-4762

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

10-21-99 *[Signature]* WP-27

DATE

SIGNATURE

OAK-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	B. Kind of Agency	C. Certificate No.
RICK RADLIFF 6100 S. LINDBERGH ST STOCKTON CA 95206	<input checked="" type="checkbox"/> U.S. Certificated Mechanic <input type="checkbox"/> Foreign Certificated Mechanic <input type="checkbox"/> Certificated Repair Station <input type="checkbox"/> Manufacturer	563352837

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 10-21-99	Signature of Authorized Individual <i>Richard Radliff</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	<input checked="" type="checkbox"/> FAA Flt. Standards Inspector	Manufacturer	Inspection Authorization	Other (Specify)
	<input type="checkbox"/> FAA Designee			

Date of Approval or Rejection 10-21-99	Certificate or Designation No. 566531421 TA	Signature of Authorized Individual <i>Mark J. Rauch</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 NARCO ELT 10 AND INSTALLED AMERI-KING MODEL AK 450, EMERGENCE LOCATOR TRANSMITTER PER TSO-C91A. ALL WORK COMPLETED I.A.W. AMERI KING INSTALLATION & OPREATION MANUAL DOCUMENT NO. IM-450 AND AC43.13-2A CHAPTERS 1 THROUGH 3,11 AND 13.
2. MOUNTED ELT ON SAME RADIO TRAY IN SAME LOCATION THAT PREVIOUS ELT WAS MOUNTED USED SUPPLIED MOUNTING BRACKET P/N 450013. MOUNTED REMOTE UNIT ASSEMBLY P/N 450004 IN INSTRUMENT PANEL ABOVE RT SIDE RADIO STACK.
- 3.I.A.W. SECTION 3 OF AMERI-KING INSTALATION AND OPERATION MANUAL DOCUMENT NO. IM-450.
- 4.ELT IS LOCATED IN THE TAIL CONE OF THE AIRCRAFT BEHIND THE BATTERY ACCESS PANEL THIS PANEL MUST BE REMOVED FOR MAINTENCE TO BE COMPLETED I.A.W. SECTION 3 OF THE AMERI-KING INSTALATION AND OPERATION MANUAL DOCUMENTNO. IM-450.
- 5.COMPLETE OPERATIONAL CHECK I.A.W. FAR 91.207 [D][1][2][3][4] AND I.A.W. APPENDIX A AND SECTION 3,4 OF THE INSTALATION AND OPERATION DOCUMENT NO. IM-450.
- 6.NO INFORMATION GIVEN.
7. REMOVIAL OF ELT IS ACOMPLISHED BY FIRST REMOVING THE BATTERY ACCESS PANEL ON LEFT SIDE OF TAIL CONE JUST AFT OF WING. REMOVIAL OF THE ELT UNIT AND ITS COMPONITS IS THEN ACOMPLISHED I.A.W. AMERI-KING INSTALATION AND OPERATION DOCUMENT IM-450.
- 8.REMOVAL OF BATTERY COMPARTMENT ACESSED PANEL IS REQUIRED, SEE MOONEY MAINTENCE MANUAL.
- 9.NA
- 10.NONE GIVEN IN MANUFACTURE INSTRUCTIONS.
- 11.SUPPLIED MOUNTING TRAY SECURED TO RADIO RACK USING 4 EA MS35206-228 SCREWS AND 4 EA MS21042-12 NUTS.
- 12.NA
- 13.NA
14. NO ADDITIONAL OVERHAULE TIME LIMITATIONS.
- 15.NA
- 16.A LETTER WILL BE SUBMITTED TO THE LOCAL FSDO WITH A COPY OF THE REVISED FAA FORM 337 ANDREVISED ICA.

|| 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
WP-07

INSTRUCTIONS: Print or type all entries. See FAR 43.9, FAR 43 Appendix B, and AC 43.9-1 (or subsequent revision thereof) for instructions and disposition of this form. 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 MOONEY	Model M20F
	Serial No. 670368	Nationality and Registration Mark USA N3275F
2. Owner	Name (As shown on registration certificate) BERNSTEIN ALLEN S. BERNSTEIN DIANA	Address (As shown on registration certificate) 312 CALLE LINDA SEDONA, AZ 86336-4762

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 PETER M. BAXTER 6543 CRYSTAL LANE PRESCOTT, AZ 86301	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. 527865572

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 5/25/99	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 <input checked="" type="checkbox"/> APPROVED <input type="checkbox"/> 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 5/26/99		Certificate or Designation No. 527865572		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.)

USA N-3275F 5/25/99
REMOVED OUTBOARD LEFT WING SKIN PN:220000-165 AND END RIB PN: 210239-001.REPLACED WITH NEWUSED EXISTING
RIVIT PATTERN AND SPACING.ALL WORK DONE IN ACCORDANCE WITH AC43.131A PAR. 99 c,d, g, AND PAR. 100 d. NO
WEIGHT & BALANCE CHANGE.

-----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 FSDO
RJC WP-15

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 <i>MOONEY</i>	Model <i>M 20 F</i>
	Serial No. <i>670368</i>	Nationality and Registration Mark <i>N 3275F</i>
2. Owner	Name (As shown on registration certificate) <i>BERNSTEIN, ALLEN S.</i> <i>BERNSTEIN, DIANA</i>	Address (As shown on registration certificate) <i>312 CALLE LINDA</i> <i>SEDONA, AZ 86336</i>

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 ADVANCED AVIATION SERVICES, INC. REID HILLVIEW AIRPORT 2550 John Montgomery Dr. San Jose, CA 95148	B. Kind of Agency U.S. Certificated Mechanic Foreign Certificated Mechanic <input checked="" type="checkbox"/> Certificated Repair Station Manufacturer	C. Certificate No. <i>AX31387L</i> <i>RAD10142</i> <i>INS71143</i> <i>AIRFRAME LTD</i>
---	---	--

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

Date <i>8/4/98</i>	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	Inspection Authorization	Other (Specify)
	FAA Designee	X Repair Station	Person Approved by Transport Canada Airworthiness Group	

Date of Approval or Rejection <i>8/4/98</i>	Certificate or Designation No. <i>AX31387L</i>	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.)

REMOVED MOONEY POSITIVE CONTROL AUTOPILOT SYSTEM.
INSTALLED STEC MODEL SYSTEM 30 ATOPilot SYSTEM
PER STC SA09212AC-D, INSTALLATION MANUAL #676 AND BULLETIN
#776 DATED 10/20/97.

WEIGHT AND BALANCE CHANGE AS FOLLOWS:

EW=1746.4

UL=993.6

CG=46.40

MOM=81030.12

-----END-----

Additional Sheets Are Attached

RECEIVED



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

OCT 19 1995

Form Approved
OMB No. 2120-0020

For FAA Use Only

Office Identification

FAA
SO-FSDO-03

ASO-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 Mooney	Model M20F
	Serial No. 670368	Nationality and Registration Mark USA N3275F
2. Owner	Name (As shown on registration certificate) Ronney L. Ferguson	Address (As shown on registration certificate) 13 Collins Crest CT Greenville, SC 29607

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.
KnoxAir, Inc. 2221 Airport Highway, Alcoa, TN 37701	U.S. Certificated Mechanic	Radio Class 1,2,3 RE4R489M
	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 10/14/95	Signature of Authorized Individual J.M. FOULDS		
------------------	---	--	--

7. Approval for Return To Service

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

BY	FAA Fit. Standards Inspector	Manufacturer	Inspection Authorization	Other (Specify)
	FAA Designee	X Repair Station	Person Approved by Transport Canada Airworthiness Group	
Date of Approval or Rejection 10/14/95		Certificate or Designation No. RE4R489M	Signature of Authorized Individual J.M. FOULDS	

N32755

NOTICE

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

8. Description of Work Accomplished

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

Removed:

- 1) Narco COM 11A, No. 1 Comm
- 2) Narco NAV 14, No. 1 Nav.
- 3) Narco UGR-2A, GS Rec.
- 4) Narco DGO-10, HSI.

Installed:

- 1) Narco MK-12D Nav/Comm/GS, s/n 56220, in radio stack at STA. 51.00, in place of removed nav. and comm.
- 2) Century NSD-360A-15 non-slaved HSI, system no. NSD-1629, p/n 52D136-1333, s/n 13346A, in pilot's instrument panel at STA. 51.00, in place of removed HSI.

Narco MK-12D installed in accordance with Narco installation manual.

Century NSD-360A HSI installed in accordance with Century installation manual.

Equipment installation complies with the following:

AC 43.13-1A, Chapter 5, Section 1, Para. 227, 228, 230, 231
Chapter 11, Section 2, Para. 424, 426,
428, 429
Section 3, Para. 442-450
Section 5, Para. 478
Section 7, Para. 514-520
Chapter 13, Para. 656, 657, 659, 662
Chapter 15, Section 1, Para. 754

AC 43.13-2A, Chapter 1, Para. 6, 9-12
Chapter 2, Para. 21-27

Equipment ramp checked to confirm proper operation, and found to have no adverse effect on other equipment installed in the aircraft. Compass calibration checked. Electrical load found to be within the capacity of the 50 amp generator installed in the aircraft. Weight and balance revised. Equipment list revised, log book entry made. This work was completed under Knox-Air, Inc. Work Order No. 17122.

-----END-----

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

SO FSDO 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.

1. AIRCRAFT	MAKE	MOONEY	MODEL	M20F
	SERIAL NO.	670368	NATIONALITY AND REGISTRATION MARK	N3275F
2. OWNER	NAME (As shown on registration certificate) FERGUSON, RONNEY L.		ADDRESS (As shown on registration certificate) 13 COLLINS CREST COURT GREENVILLE, SC 29607	

3. FOR FAA USE ONLY

4. UNIT IDENTIFICATION				5. TYPE		
UNIT	MAKE	MODEL	SERIAL NO.	REPAIR	ALTER- ATION	
AIRFRAME	***** (As described in item 1 above) *****					XX
POWERPLANT						
PROPELLER						
APPLIANCE	TYPE					
	MANUFACTURER					

6. CONFORMITY STATEMENT

A. AGENCY'S NAME AND ADDRESS

WILLIAM STANFIELD
120 CLUB LOOP
GREENVILLE, SC 29605

B. KIND OF AGENCY

- U.S. CERTIFIED MECHANIC
 FOREIGN CERTIFIED MECHANIC
 CERTIFIED REPAIR STATION
 MANUFACTURER

C. CERTIFICATE NO.

254231320

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

JANUARY 30, 1996

SIGNATURE OF AUTHORIZED INDIVIDUAL

WILLIAM STANFIELD

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	XX	INSPECTION AUTHORIZATION	OTHER (Specify)
	FAA DESIGNEE				
DATE OF APPROVAL OR REJECTION		CERTIFICATE OR DESIGNATION NO.		SIGNATURE OF AUTHORIZED INDIVIDUAL	
01-30-1996		105462547		JOHN W. BROADHEAD	

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 O+N AIRCRAFT MODIFICATIONS, INC. FUEL BLADDER CELLS IN LEFT AND RIGHT WINGS PER STC SA2277CE WITH THE FOLLOWING LISTED APPROVED DATA:

- 1.) BRENTWOOD ENGINEERING, INC., INSTALLATION DRAWING LIST B-400, DATED JULY 30, 1987, REVISED SEPTEMBER 11, 1987.
- 2.) REPORT B-200, REVISED MAY 5, 1995.
- 3.) REPORT B-300, REVISED SEPTEMBER 11, 1987.

WEIGHT AND BALANCE REVISED TO REFLECT THIS INSTALLATION.

END

ADDITIONAL SHEETS ARE ATTACHED

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

SO-75D0-13

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.

1. AIRCRAFT	MAKE MOONEY	MODEL M20F
	SERIAL NO. 670368	NATIONALITY AND REGISTRATION MARK N3275F
2. OWNER	NAME (As shown on registration certificate) FERGUSON, RONNEY L.	ADDRESS (As shown on registration certificate) 13 COLLINS CREST COURT GREENVILLE, SC. 29607
3. FOR FAA USE ONLY		

4. UNIT IDENTIFICATION				5. TYPE	
UNIT	MAKE	MODEL	SERIAL NO.	REPAIR	ALTER- ATION
AIRFRAME	***** (As described in item 1 above) *****				
POWERPLANT	LYCOMING	IO-360-A1A	L-3621-51A		X
PROPELLER					
APPLIANCE	TYPE				
	MANUFACTURER				

6. CONFORMITY STATEMENT

A. AGENCY'S NAME AND ADDRESS JOHN W. BROADHEAD 120 CLUB LOOP GREENVILLE, SC. 29605	B. KIND OF AGENCY	C. CERTIFICATE NO.
	<input checked="" type="checkbox"/> U.S. CERTIFIED MECHANIC	105462547
	FOREIGN CERTIFIED MECHANIC	
	CERTIFIED 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 09-18-1995	SIGNATURE OF AUTHORIZED INDIVIDUAL <i>John W. Broadhead</i> JOHN W. BROADHEAD		
--------------------	---	--	--

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	XX	INSPECTION AUTHORIZATION	OTHER (Specify)
	FAA DESIGNEE	REPAIR STATION		CANADIAN DEPARTMENT OF TRANSPORT INSPECTOR OF AIRCRAFT	
DATE OF APPROVAL OR REJECTION 09-18-1995		CERTIFICATE OR DESIGNATION NO. 105462547		SIGNATURE OF AUTHORIZED INDIVIDUAL <i>John W. Broadhead</i> JOHN W. BROADHEAD	

NOTICE

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

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

REPLACED ORIGIONAL LYCOMING STARTER WITH SKY-TEC 12 VOLT
STARTER MODEL 149-12PM PER SKY-TEC SUPPLEMENTAL TYPE CERTIFICATE
SE00218NY. IN ACCORDANCE WITH SKY-TEC DRAWINGS 20102 AND 20102
REVISION A.

AIRCRAFT WEIGHT AND BALANCE REVISED TO REFLECT THIS INSTALLATION.

END _____

ADDITIONAL SHEETS ARE ATTACHED

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

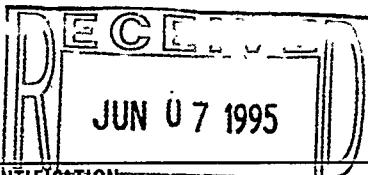
OFFICE IDENTIFICATION

LWB SO FSDO 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.

1. AIRCRAFT	MAKE <i>MOONEY</i>	MODEL <i>M-20F</i>
	SERIAL NO. <i>670368</i>	NATIONALITY AND REGISTRATION MARK <i>N3275F</i>
2. OWNER	NAME (As shown on registration certificate) <i>RONNEY LYNN FERGUSON</i>	ADDRESS (As shown on registration certificate) <i>13 COLLINS CREST CT. GREENVILLE, SC 29607</i>

3. FOR FAA USE ONLY



4. UNIT IDENTIFICATION

CAC FSDO - SU13

MODEL

SERIAL NO.

5. TYPE

REPAIR ALTER-
ATION

AIRFRAME	***** (As described in item 1 above) *****			X
POWERPLANT				
PROPELLER				
APPLIANCE	TYPE			
	MANUFACTURER			

6. CONFORMITY STATEMENT

A. AGENCY'S NAME AND ADDRESS

*Tedd L. BISHOP
205 CONNECTICUT DR.
GREENVILLE, SC 29615*

B. KIND OF AGENCY

U.S. CERTIFIED MECHANIC

ADP 1398871

FOREIGN CERTIFIED MECHANIC

CERTIFIED 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

5-26-95

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	<input checked="" type="checkbox"/> INSPECTION AUTHORIZATION	OTHER (Specify)
	FAA DESIGNEE	REPAIR STATION		

DATE OF APPROVAL OR
REJECTION
5-26-95

CERTIFICATE OR
DESIGNATION NO.
1A1257564

SIGNATURE OF AUTHORIZED INDIVIDUAL

Walt Faber

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 COAL CLOSURE FAIRING FURNISH BY
LAKE AERO STYLING AND REPAIR, 4725 HIGHLAND SPRINGS RD.,
LAKEPORT, CA 95453

INSTALLED IN ACCORDANCE WITH STC SA4535NM AND
INSTRUCTIONS PROVIDED ON LAKE AERO STYLING AND REPAIR
DRAWING LIST REPORT NO. 131.

WEIGHT AND BALANCE DATA:

+ ONE POUND AT STATION -33, (-33 MOMENTS)

NEW EMPTY WEIGHT: 1750.85

NEW MOMENT : .80022.38

NEW C/G : 45.7

NEW USEFUL LOAD : 989.15

-END-

ADDITIONAL SHEETS ARE ATTACHED

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
SO-13 *LFB*

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 MOONEY	MODEL M20F
	SERIAL NO. 670368	NATIONALITY AND REGISTRATION MARK N3275F
2. OWNER	NAME (As shown on registration certificate) FERGUSON, RONNEY L.	ADDRESS (As shown on registration certificate) 13 COLLINS CREST COURT GREENVILLE, SC. 29607

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.
WILLIAM T. STANFIELD 16 WATERMARK COURT PIEDMONT, SC. 29673		U.S. CERTIFICATED MECHANIC	254231320
		FOREIGN CERTIFICATED MECHANIC	
		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 JUNE 21, 1995	SIGNATURE OF AUTHORIZED INDIVIDUAL <i>John W. Broadhead</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	X	INSPECTION AUTHORIZATION	OTHER (Specify)
	FAA DESIGNEE				
DATE OF APPROVAL OR REJECTION JUNE 21, 1995		CERTIFICATE OR DESIGNATION NO. 105462547		SIGNATURE OF AUTHORIZED INDIVIDUAL <i>John W. Broadhead</i> JOHN W. BROADHEAD	

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 LOWER AILERON GAP SEALS WITH APPROVED PARTS LISTED :

1ea L004-230015-001-2 R/H SEAL
1ea L004-230015-001-1 L/H SEAL
.5W X .005 THICK MYLAR TAPE
60ea AD42-4H USM BLIND RIVETS

INSTALLED IN ACCORDANCE WITH STC 4443NM, AND INSTRUCTIONS PROVIDED ON LAKE AERO STYLING AND REPAIR DRAWING LIST REPORT # 101.

INSTALLED FLAP GAP SEALS WITH APPROVED PARTS LISTED :

1ea	C-L002-210374-001	FLAP SEAL, L/H IB
1ea	C-L002-210374-002	FLAP SEAL, R/H IB
2ea	C-L002-210374-003	FLAP SEAL, L/H
2ea	C-L002-210374-004	FLAP SEAL, R/H
2ea	C-L001-210375-001	CHANNEL
4ea	C-L001-210375-003	CHANNEL
450ea	AD-42-H USM	BLIND RIVETS
22ea	CR 3243-4-1	CHERRYMAX BLIND RIVETS

INSTALLED IN ACCORDANCE WITH STC SA 4443NM AND INSTRUCTIONS PROVIDED ON LAKE AERO STYLING AND REPAIR DRAWING LIST REPORT #100.

WEIGHT AND BALANCE REVISED TO REFLECT THIS INSTALLATION.

----- END -----

ADDITIONAL SHEETS ARE ATTACHED

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

TAD SO FSDO 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.

1. AIRCRAFT	MAKE <i>MOONEY</i>	MODEL <i>M-20 F</i>
	SERIAL NO. <i>670368</i>	NATIONALITY AND REGISTRATION MARK <i>NI 3275 F</i>
2. OWNER	NAME (As shown on registration certificate) <i>RONNEY LYNN FERGUSON</i>	ADDRESS (As shown on registration certificate) <i>13 COLLINS CREST CT. GREENVILLE, SC 29615</i>

3. FOR FAA USE ONLY

JUN U 7 1995

4. UNIT IDENTIFICATION			5. TYPE	
UNIT	MAKE	MODEL	CAF FSDO SERIAL NO. 93	REPAIR ALTER- ATION
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.
<i>TELL L. BISHOP 205 CONNECTICUT DR. GREENVILLE, SC 29615</i>		<input checked="" type="checkbox"/> U.S. CERTIFIED MECHANIC <input type="checkbox"/> FOREIGN CERTIFIED MECHANIC <input type="checkbox"/> CERTIFIED REPAIR STATION <input type="checkbox"/> MANUFACTURER	<i>ATP 1398871</i>

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

DATE <i>5-26-95</i>	SIGNATURE OF AUTHORIZED INDIVIDUAL <i>John R. Bishop</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 <i>6-6-95</i>	CERTIFICATE OR DESIGNATION NO. <i>1A 1251564</i>	SIGNATURE OF AUTHORIZED INDIVIDUAL <i>Walt Palmer</i>
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NOTICE

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

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

INSTALLED COWL CLOSURE FAIRING FINISHED BY
LAKE AERO STYLING AND REPAIR, 4725 HIGHLAND SPRING RD,
LAKEPORT, CA, 95453

INSTALLED IN ACCORDANCE WITH STC SA4535NM AND
INSTRUCTIONS PROVIDED BY LAKE AERO STYLING AND REPAIR
DRAWING LIST REPORT NO. 131.

WEIGHT AND BALANCE DATA:

+ ONE POUND AT STATION -33, (-33 MOMENTS)

NEW EMPTY WEIGHT : 1750.85

NEW MOMENT : 80022.38

NEW O/G : 45.7

NEW USEFUL LOAD : 989.15

-END-

ADDITIONAL SHEETS ARE ATTACHED



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

Form Approved
OMB No. 2120-0020

For FAA Use Only

Office Identification

SAT-FSD SW-17

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 MOONEY	Model M20F
	Serial No. 670368	Nationality and Registration Mark N 3275F
2. Owner	Name (As shown on registration certificate) FERGUSON RONNEY L	Address (As shown on registration certificate) 13 COLLINS CREST CT GREENVILLE, SC 29607

3. For FAA Use Only

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

6. Conformity Statement

A. Agency's Name and Address		B. Kind of Agency	C. Certificate No.
PIPPEN/YORK FLYING MACHINE CO. MUNICIPAL AIRPORT PO BOX 159 BURNET, TX 78611		U.S. Certificated Mechanic	RADIO LIMITED
		Foreign Certificated Mechanic	INSTRUMENT LIMITED
		XX Certificated Repair Station	AIRFRAME LIMITED
		Manufacturer	FMZR327K

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

Date <i>4/13/95</i>	Signature of Authorized Individual <i>Gregory A. York</i>		
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7. Approval for Return To Service

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

BY	FAA Fit. Standards Inspector	Manufacturer	Inspection Authorization	Other (Specify)
	FAA Designee	XX Repair Station	Person Approved by Transport Canada Airworthiness Group	
Date of Approval or Rejection <i>4/13/95</i>		Certificate or Designation No. FMZR327K		Signature of Authorized Individual <i>Gregory A. York</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.)

- N 3275F -

USA

Date 4/13/95

Installed WX-900 Stormscope System.

Component and system installation of this equipment listed on this 337 were accomplished in accordance with AC 43.13-2A, Chapters 1 and 2.

Aircraft structural and metal work were accomplished in accordance with AC 43.13-2A, Chapter 1 and AC 43.13-1A Chapter 2, Section 3. Aircraft hardware used was in accordance with AC 43.13-1A, Chapter 5, Section 1.

Electrical load, circuit protection and wire installation were accomplished in accordance with AC 43.13.1A, Chapter 11, Sections 2,3,4,5 and 6.

Antenna installation in accordance with manufacturer's instructions and AC 43.13-2A, Chapter 3.

The aircraft equipment list is revised to reflect these changes: weight and balance data was furnished and placed in aircraft records. The approved flight manual was updated as required.

A functional test of the installation described in this 337 was performed in accordance with FAR 23.1301 and FAR 23.1431. Operation was satisfactory and the installation did not adversely affect existing component and systems in the aircraft.

-----END-----

MR	AC	AMEN	L.G.	SE	PASS	PMUT
OPS		G/F ASA		AW ASA		(AVS)
OP1	OP6		RECEIVED		AW6	AW1
OP2	OP7				AW7	AW2
OP3	OP8				AW8	AW3
OP4	OP9	AV1		AV3	AW9	AW4
OP5	OP10	A/V			AW10	AW5

Additional Sheets Are Attached

DEPARTMENT OF TRANSPORTATION
FEDERAL AVIATION ADMINISTRATION

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

Form Approved
Budget Bureau No. 04-R060.1 C1

FOR F.A.A. USE ONLY
OFFICE IDENTIFICATION
SD 7SDO-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.

1. AIRCRAFT	MAKE	MODEL
	MOONEY	M-20F
	SERIAL NO. 670368	NATIONALITY AND REGISTRATION MARK N13275F
2. OWNER	NAME (As shown on registration certificate) RON FERGUSON	ADDRESS (As shown on registration certificate) 13 COLLINS CREST CT. GREENVILLE, SC 29607

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.
TEED L. BISHOP 205 CONNECTICUT DR. GREENVILLE, SC 29615	<input checked="" type="checkbox"/> U.S. CERTIFIED MECHANIC <input type="checkbox"/> FOREIGN CERTIFIED MECHANIC <input type="checkbox"/> CERTIFIED REPAIR STATION <input type="checkbox"/> MANUFACTURER	1398871

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	
2-28-95	<i>Tedd L. Bishop</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)	RECEIVED R MAR 08 1995
	FAA DESIGNEE	REPAIR STATION	<input type="checkbox"/> CANADIAN DEPARTMENT OF TRANSPORT INSPECTOR OF AIRCRAFT		
DATE OF APPROVAL OR REJECTION	CERTIFICATE OR DESIGNATION NO.	SIGNATURE OF AUTHORIZED INDIVIDUAL			CAE FSDO - S018 (8320)
3-1-95	1A12515G4	<i>Walter W. Baker</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. COMPLETED WORK 2-28-95

N3275F USA REG:

2. APPROVAL AUTHORITY FOR INSTALLATION OF DIGITAL AUTOMATIC ENGINE ANALYZER: STC - SA4302NM
STD 27 APR 88 AMENDED 13 OCT 89, ISSUED TO ELECTRONICS INTERNATIONAL, INC - BY SEATTLE AIRCRAFT CERTIFICATION OFFICE.

3. MODEL 458R-4 SERIAL NO. 17309 INSTALLED.

4. INSTALLATION WAS IN ACCORDANCE WITH MANUAL 01072491 AND 11072091 FURNISHED WITH STC - by MFG.

5. ELECTRICAL LOAD INCREASE 1 AMP WITH AN AVERAGE OF 60% LOAD OF 50 AMP SYSTEM.

6. WEIGHT AND BALANCE: (15 OZ) PLUS NEGIGIBLE CHANGE

— — — END — —

ADDITIONAL SHEETS ARE ATTACHED

DEPARTMENT OF TRANSPORTATION
FEDERAL AVIATION ADMINISTRATIONMAJOR REPAIR AND ALTERATION
(Airframe, Powerplant, Propeller, or Appliance)Form Approved
Budget Bureau No. 04-R060.1

FOR FAA USE ONLY

OFFICE IDENTIFICATION
SO-7SD0-13

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.

1. AIRCRAFT	MAKE <i>MOONEY</i>	MODEL <i>M-20 F</i>
	SERIAL NO. <i>670368</i>	NATIONALITY AND REGISTRATION MARK <i>AI 3295F</i>
2. OWNER	NAME (As shown on registration certificate) <i>RON FERGUSON</i>	ADDRESS (As shown on registration certificate) <i>13 COLLINS CREST CT-</i> <i>GREENVILLE, SC 29607</i>
3. FOR FAA USE ONLY		

4. UNIT IDENTIFICATION

5. TYPE

UNIT	MAKE	MODEL	SERIAL NO.	REPAIR	ALTER- ATION
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.
<i>Todd L. BISHOP 205 CONNECTICUT DR. GREENVILLE, SC 29615</i>	<input checked="" type="checkbox"/> U.S. CERTIFIED MECHANIC <input type="checkbox"/> FOREIGN CERTIFIED MECHANIC <input type="checkbox"/> CERTIFIED REPAIR STATION <input type="checkbox"/> MANUFACTURER	<i>1398871</i>

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

DATE <i>2-28-95</i>	SIGNATURE OF AUTHORIZED INDIVIDUAL <i>Todd L. Bishop</i>	
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7. APPROVAL FOR RETURN TO SERVICE

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

BY	FAA FLT. STANDARDS INSPECTOR	MANUFACTURER	<input checked="" type="checkbox"/> INSPECTION AUTHORIZATION	OTHER (Specify) <i>RECEIVED</i>	MAR 08 1995
	FAA DESIGNEE	REPAIR STATION	CANADIAN DEPARTMENT OF TRANSPORT INSPECTOR OF AIRCRAFT		
DATE OF APPROVAL OR REJECTION <i>3-1-95</i>	CERTIFICATE OR DESIGNATION NO. <i>1A1251544</i>		SIGNATURE OF AUTHORIZED INDIVIDUAL <i>Walter W. Fahr</i>		CAE FSDO - SO13

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. COMPLETED WORK 2-28-95

N3275F USA REG.

2. APPROVAL AUTHORITY FOR INSTALLATION OF DIGITAL AUTOMATIC ENGINE ANALYZER: STC - SA43024MS
STD 27 APR 88 AMENDED 13 OCT 89. ISSUED TO ELECTRONICS INTERNATIONAL, INC. BY SEATTLE AIRCRAFT CERTIFICATION OFFICE.

3. MODEL 458A-4 SERIAL NO. 17309 INSTALLED.

4. INSTALLATION WAS IN ACCORDANCE WITH MANUAL 01072491 AND 11072091 FURNISHED WITH STC - by MFG.

5. ELECTRICAL LOAD INCREASE 1 AMP WITHIN SURGE OF 60% LOAD OF 50 AMP SYSTEM.

6. WEIGHT AND BALANCE: (15 OZ) PLUS.
NEGIGIBLE CHANGE

— — — 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

S0039503444

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 Mooney	Model M20F	
	Serial No. 670368	Nationality and Registration Mark U.S.A. N3275F	
2. Owner	Name (As shown on registration certificate) Ferguson, Ronney L	Address (As shown on registration certificate) 13 Collins Crest Ct Greenville, SC 29607	
<p>The data identified below is for 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.</p> <p><i>12-19-94</i> Date</p> <p><i>[Signature]</i> Signature of FAA Inspector</p>			
4. Unit Identification			
Unit	Make	Model	
AIRFRAME	(As described in Item 1 above)		
POWERPLANT			
PROPELLER			
APPLIANCE	Type		
	Manufacturer		
6. Conformity Statement			
A. Agency's Name and Address		B. Kind of Agency	C. Certificate No.
Knox-Air, Inc; 2221 Airport Highway Alcoa, TN 37701		<input checked="" type="checkbox"/> U.S. Certificated Mechanic <input type="checkbox"/> Foreign Certificated Mechanic <input checked="" type="checkbox"/> Certificated Repair Station <input type="checkbox"/> Manufacturer	Radio Class 1, 2, 3 RE4R489M
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		
10/7/94	<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 described 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
	FAA Designee	X Repair Station	Person Approved by Transport Canada Airworthiness Group
Date of Approval	Certificate or Designation No.	Other (Specify)	
10/7/94	RE4R489M	DEC 1 =	

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.

6. Description of Work Accomplished

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

Removed Apollo E12C Loran 'C' System, Brittain BI603 A/F,
and yoke mounted 8-day clock.

Relocated King KR-86 receiver from right hand radio stack to
top of center radio stack.

Installed Magellan Skynav 5000 GPS receiver, s/n: 4A003003,
in right hand instrument panel. GPS antenna mounted on top
of aircraft above fwd cabin. Davtron M400M control wheel
mounted clock, s/n 09291, installed in pilots control wheel.
Equipment installed in accordance with Magellan installation
manual p/n 22-40003-011, revision 1.1, dated April 1993,
reference STC no. SA8213SW. Clock installed IAW Davtron
installation instructions. Installation also complies with
the following:

AC 43.13-1A, Chapter 5, Section 1, Para. 227, 228, 230, 231
Chapter 11, Section 2, Para. 424, 426,

428, 429

Section 3, Para. 442-450

Section 5, Para. 478

Section 7, Para. 514-520

Chapter 13, Para. 656, 657, 659, 662

Chapter 15, Section 1, Para. 754

AC 43.13-2A, Chapter 1, Para. 6, 9-12

Chapter 2, Para. 21-27

Chapter 3, Para. 36

GPS is a stand alone system and is not connected or
interfaced with any other equipment in the aircraft. GPS
installed IAW AC 20-138, Para 6, 7. Magellan User Guide and
Flight Manual Supplement, p/n 22-40002-020, revision 2.0,
dated 06/93 placed with the aircraft flight manual. Aircraft
placarded 'Navigation Must Not Be Predicated On GPS Alone'
and 'GPS Limited To VFR Use Only.' Equipment checked and
found to have no adverse effect on other equipment installed
in the aircraft. Electrical load does not exceed 80% of the
50 amp generator installed in the aircraft. Compass
calibration checked. Weight and balance and equipment list
revised, log book entry made. This work was completed under
Knox-Air, Inc. Work Order No. 15944.

-----END-----

Additional Sheets Are Attached

FLIGHT TEST DATA FOR GPS INSTALLATION - VFR:

Mfg: Magellan Model: Skynav 5000 S/N: 4A003003
A/C Reg. No: N3275F A/C S/N: 670368
A/C Type: Mooney M20F

FLIGHT TEST DATA:

Pilot: Ron Ferguson
Observer: Jonathan Foulds
Date: 10/7/94

<u>TEST FACILITY:</u>	<u>LAT/LONG</u>	<u>POS. FIXING ERROR (NM)</u>
Knoxville VOR, VXV	N 35.54'29" W 083.53'68"	

PASS NO:

1.	35.54'26" 083.53'69"	< 0.1
2.	35.54'29" 083.53'64"	< 0.1
3.	35.54'28" 083.53'67"	< 0.1
4.	35.54'26" 083.53'68"	< 0.1
5.	35.54'32" 083.53'69"	< 0.1

Installation meets the accuracy requirements of AC 20-138,
Para. 6 a. (1).

-----END-----

JAN 8 1995

10. The following table shows the number of hours worked by each employee in a company.

AMC T-45C 110000000000
AMC T-45C 110000000000
AMC T-45C 110000000000

SATAQ TEST THAI

JAPAN SOC. FOR THE STUDY OF JAPAN

DOCUMENTA

KODAK SAFETY FILM, ASA 35, 24 EXPOSURE
A 080.55.08

104 22A7

32, 34, 36.

383-53-83

1.0 > 1000' 42.00

19. *Leucosia* *leucostoma* *leucostoma* *leucostoma*

1.8 > 85.00.00
1.8 > 85.00.00

182 183:AP 2E

000.22.080

1.0 > "SE' 42.26

Interfacing with the security mechanisms of AC 26-138.

-ДИЗ-



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 S0039503444

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 Mooney	Model M20F
	Serial No. 670368	Nationality and Registration Mark U.S.A. N3275F
2. Owner	Name (As shown on registration certificate) Ferguson, Ronney L	Address (As shown on registration certificate) 13 Collins Crest Ct Greenville, SC 29607

The data identified above is For FAA Use Only and is approved for the above described aircraft, subject to conformity inspection by a person authorized in FAR 43, section 43.7.

12-19-94
Date

[Signature of FAA Inspector]

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

6. Conformity Statement

A. Agency's Name and Address Knox-Air, Inc; 2221 Airport Highway Alcoa, TN 37701	B. Kind of Agency <input checked="" type="checkbox"/> U.S. Certified Mechanic <input type="checkbox"/> Foreign Certified Mechanic <input checked="" type="checkbox"/> Certificated Repair Station <input type="checkbox"/> Manufacturer	C. Certificate No. Radio Class 1,2,3 RE4R489M
--	---	---

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 10/7/94	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	Inspection Authorization	Other (Specify)
	FAA Designee	X Repair Station	Person Approved by Transport Canada Airworthiness Group	<i>DEC 1 =</i>
Date of Approval or Revision	Certificate or Designation No.	Signature of Authorized Individual		
<i>12/95</i>	<i>RE4R489M</i>	<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.)

Removed Apollo 612C Loran 'C' System, Brittain RI603 A/P, and yoke mounted 8-day clock.

Relocated King KR-86 receiver from right hand radio stack to top of center radio stack.

Installed Magellan Skynav 5000 GPS receiver, s/n 4A003003, in right hand instrument panel. GPS antenna mounted on top of aircraft above fwd cabin. Davtron M600M control wheel mounted clock, s/n 09291, installed in pilots control wheel. Equipment installed in accordance with Magellan installation manual p/n 22-40003-011, revision 1.1, dated April 1993, reference STC no. SA8213SW. Clock installed IAW Davtron installation instructions. Installation also complies with the following:

AC 43.13-1A, Chapter 5, Section 1, Para. 227, 228, 230, 231
Chapter 11, Section 2, Para. 424, 426,
428, 429
Section 3, Para. 442-450
Section 5, Para. 478
Section 7, Para. 514-520
Chapter 13, Para. 656, 657, 659, 662
Chapter 15, Section 1, Para. 754
AC 43.13-2A, Chapter 1, Para. 6, 9-12
Chapter 2, Para. 21-27
Chapter 3, Para. 36

GPS is a stand alone system and is not connected or interfaced with any other equipment in the aircraft. GPS installed IAW AC 20-138, Para 6, 7. Magellan User Guide and Flight Manual Supplement, p/n 22-40002-020, revision 2.0, dated 06/93 placed with the aircraft flight manual. Aircraft placarded 'Navigation Must Not Be Predicated On GPS Alone' and 'GPS Limited To VFR Use Only.' Equipment checked and found to have no adverse effect on other equipment installed in the aircraft. Electrical load does not exceed 80% of the 50 amp generator installed in the aircraft. Compass calibration checked. Weight and balance and equipment list revised, log book entry made. This work was completed under Knox-Air, Inc. Work Order No. 15944.

-----END-----

Additional Sheets Are Attached

t1

FLIGHT TEST DATA FOR GPS INSTALLATION - VFR:

Mfg: Magellan Model: Skynev 5000 S/N: 4A003003
A/C Reg. No: N3275F A/C S/N: 670368
A/C Type: Mooney M20F

FLIGHT TEST DATA:

Pilot: Ron Ferguson
Observer: Jonathan Foulds
Date: 10/7/94

TEST FACILITY: LAT/LONG POS. FIXING ERROR (NM)

Knoxville VOR, VXV N 35.54'29"
 W 083.53'68"

PASS NO:

1.	35.54'26" 083.53'69"	< 0.1
2.	35.54'29" 083.53'64"	< 0.1
3.	35.54'28" 083.53'67"	< 0.1
4.	35.54'26" 083.53'68"	< 0.1
5.	35.54'32" 083.53'69"	< 0.1

Installation meets the accuracy requirements of AC 20-138,
Para. 6 a. (1).

-----END-----

JAN 9 1995

LIGHT TEST DATA FOR ECE INSTALLATION - VEC

Model: EK940A S/N: 5403300
AND DATE: 04/20/98 AND S/N: 0403300
AND TIME: 10:55AM

AT&T TEST TH0113

1911-1912 Doses: Operative: Bifol: Ron L. Thompson
Montgomery Foothills

TEST CAPABILITY TEST TAKING POSS. TIMING ERROR (ms)

Monaville, ROB. AAA
W. 32. 44. 35.
W. 32. 44. 35.

• 32, 32, 32
• 32, 32, 32
• 32, 32, 32

5. *Exhibit 1*
6. *Exhibit 2*

1.0 > 782.42 .25

1.0 > 35, 24, 28. " .4

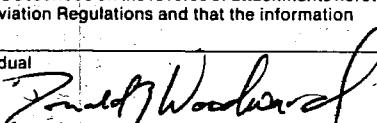
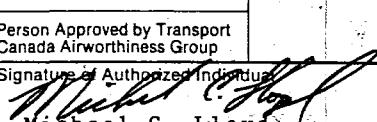
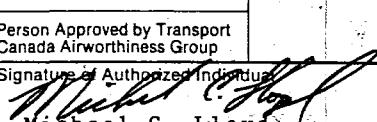
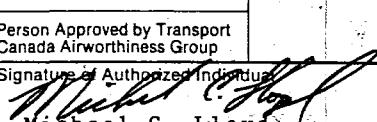
1.0 > 32.24,32" .3

estabilization were the secondary leaderships to be

Classification: CONFIDENTIAL - Distribution: AC 20-138
Date: 6-5-1945 (1).

-----END-----

Dgmn

 <p>MAJOR REPAIR AND ALTERATION (Airframe; Powerplant, Propeller, or Appliance)</p>				Form Approved QMB No. 2120-0020 <input checked="" type="checkbox"/> For FAA Use Only Office Identification 30-FS00-03																														
<p>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).</p>																																		
1. Aircraft	Make Mooney		Model M20F																															
	Serial No. 670368		Nationality and Registration Mark N3275F																															
2. Owner	Name (As shown on registration certificate) Johnston, Michael G. Thornton, Bill		Address (As shown on registration certificate) 124 Columbine Road Kingsport, TN 37660																															
	3. For FAA Use Only																																	
4. Unit Identification <table border="1"> <tr> <td>Unit</td> <td>Make</td> <td>Model</td> <td>Serial No.</td> <td>Repair</td> <td>Alteration</td> </tr> <tr> <td>AIRFRAME</td> <td colspan="3">(As described in Item 1 above)</td> <td></td> <td>X</td> </tr> <tr> <td>POWERPLANT</td> <td>03413029 P-A-R</td> <td>IO-360-AIA</td> <td>L-3621-51A</td> <td></td> <td>X</td> </tr> <tr> <td>PROPELLER</td> <td colspan="3"></td> <td></td> <td></td> </tr> <tr> <td>APPLIANCE</td> <td>Type Manufacture 3321 Kingsport, TN</td> <td colspan="3"></td> <td></td> </tr> </table>				Unit	Make	Model	Serial No.	Repair	Alteration	AIRFRAME	(As described in Item 1 above)				X	POWERPLANT	03413029 P-A-R	IO-360-AIA	L-3621-51A		X	PROPELLER						APPLIANCE	Type Manufacture 3321 Kingsport, TN					5. Type
Unit	Make	Model	Serial No.	Repair	Alteration																													
AIRFRAME	(As described in Item 1 above)				X																													
POWERPLANT	03413029 P-A-R	IO-360-AIA	L-3621-51A		X																													
PROPELLER																																		
APPLIANCE	Type Manufacture 3321 Kingsport, TN																																	
6. Conformity Statement																																		
A. Agency's Name and Address Tri-City Aviation, Inc. Box 5155 Kingsport, TN 37663		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. AP328626686																														
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 3/5/93		Signature of Authorized Individual Donald Woodward 																																
7. Approval for Return To Service <p>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</p> <table border="1"> <tr> <td rowspan="2">BY</td> <td>FAA Ft. Standards Inspector</td> <td>Manufacturer</td> <td><input checked="" type="checkbox"/> Inspection Authorization</td> <td colspan="2">Other (Specify)</td> </tr> <tr> <td>FAA Designee</td> <td>Repair Station</td> <td>Person Approved by Transport Canada Airworthiness Group</td> <td colspan="2"></td> </tr> <tr> <td>Date of Approval or Rejection 3/5/93</td> <td colspan="2">Certificate or Designation No. 415869827</td> <td colspan="3">Signature of Authorized Individual Michael C. Lloyd </td> </tr> </table>						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 3/5/93	Certificate or Designation No. 415869827		Signature of Authorized Individual Michael C. Lloyd 														
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 3/5/93	Certificate or Designation No. 415869827		Signature of Authorized Individual Michael C. Lloyd 																															

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.)

1. Installed Precise Flight, Inc., Standby Vacuum System III in accordance with airframe STC# SA2168NM and Lycoming STC# SE1779NM.
2. Equipment list and weight & balance amended.

END

3/5/93

Donald Woodward
AP328626686

Donald Woodward

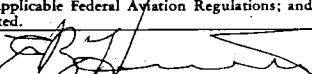
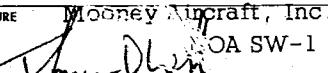
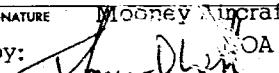
RECEIVED
FAA
MAR 12 1993
TN FSDU
Nashville, Tennessee

Additional Sheets Are Attached

*U.S.GPO:1989-663-171

1242-0793 37 JUN 30 '67

37 JUN 26 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	1. REGISTRATION MARK N3275F	2. AIRCRAFT MAKE Mooney	3. AIRCRAFT MODEL DESIGNATION M-20F	FAA CODING 58970214 41575					
	4. AIRCRAFT SERIAL NO. 670368	5. ENGINE MAKE Lycoming	6. ENGINE MODEL DESIGNATION IO-360-A1A						
	7. NO. OF ENGINES One	8. PROPELLER MAKE Hartzell	9. PROPELLER MODEL DESIGNATION HC-C2YK-1B/7666A-2	10. DS-AIRC. MANUFACTURED (1967)					
	A. APPLICATION IS HEREBY MADE FOR:								
	<input checked="" type="checkbox"/> ORIGINAL CERTIFICATE—AIRCRAFT IS		<input checked="" type="checkbox"/> NEW	<input type="checkbox"/> USED	<input type="checkbox"/> IMPORT				
	<input checked="" type="checkbox"/> AMENDMENT OR MODIFICATION OF CURRENT CERTIFICATE								
	<input checked="" type="checkbox"/> OTHER (Specify)								
II. CERTIFICATION REQUESTED	B. AIRWORTHINESS CLASSIFICATION (For multiple certification, check appropriate items)								
	<input checked="" type="checkbox"/> STANDARD (Indicate category)	<input checked="" type="checkbox"/> NORMAL	UTILITY	<input type="checkbox"/> AEROBATIC	<input type="checkbox"/> TRANSPORT				
	<input checked="" type="checkbox"/> LIMITED								
	RESTRICTED (Indicate operation(s) to be conducted)	AGRICULTURE & PEST CONTROL	<input type="checkbox"/>	AERIAL SURVEYING	<input type="checkbox"/>	AERIAL ADVERTISING			
		FOREST (Wild life conservation)	<input type="checkbox"/>	PATROLLING	<input type="checkbox"/>	WEATHER CONTROL			
	EXPERIMENTAL (Indicate operation(s) to be conducted)	RESEARCH AND DEVELOPMENT	<input type="checkbox"/>	AMATEUR BUILT	<input type="checkbox"/>	EXHIBITION			
	PROVISIONAL (Indicate class)	RACING	<input type="checkbox"/>	TO SHOW COMPLIANCE WITH FAR	<input type="checkbox"/>				
		CLASS I	<input type="checkbox"/>	CLASS II	<input type="checkbox"/> FAA CODING				
	A. REGISTERED OWNER (As shown on Certificate of Aircraft Registration) IF DEALER CHECK HERE → <input checked="" type="checkbox"/>								
	NAME Mooney Aircraft, Inc.		ADDRESS (Number, street, city, State and ZIP code) Box 72; Kerrville, Texas 78028						
III. OWNER'S CERTIFICATION	B. AIRCRAFT CERTIFICATION BASIS AIRWORTHINESS DIRECTIVE SUMMARY (Give year and last card No.)								
	<input checked="" type="checkbox"/> AIRCRAFT SPECIFICATION OR TYPE CERTIFICATION DATA SHEET (Give No. and Rev. No.) 2A3 Rev. 14		1964 67-15						
	AIRCRAFT LISTING (Give page No(s.))		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 SECTION 1:44		<input type="checkbox"/> FAA CODING				
	RECORDS MAINTAINED IN COMPLIANCE WITH FAR 91.173								
	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 5-26-67	NAME AND TITLE (Print or type) E. B. Hunnicutt (Treasurer)		SIGNATURE 					
	IN ACCORDANCE WITH FAR 21.183, THE AIRCRAFT DESCRIBED ABOVE HAS BEEN INSPECTED AND FOUND AIRWORTHY BY:								
	<input checked="" type="checkbox"/> 1. CERTIFIED AIR CARRIER (Give Certificate No.)	<input checked="" type="checkbox"/> 2. CERTIFICATED MECHANIC (A) (Give Certificate No.)	<input checked="" type="checkbox"/> 3. CERTIFICATED DOMESTIC REPAIR STATION (Give Certificate No.)						
4. AIRCRAFT MANUFACTURER (Give name of firm) <input type="checkbox"/> FAA CODING									
DATE 5-26-67	TITLE Delegation Option PC 201		SIGNATURE 						
V. AIRWORTHINESS DOCUMENTATION	A. CURRENT OPERATING LIMITATIONS AVAILABLE IN AIRCRAFT		<input checked="" type="checkbox"/> C. THIS INSPECTION RECORDED IN AIRCRAFT RECORDS						
	B. CURRENT OPERATING LIMITATIONS ATTACHED		H. STATEMENT OF CONFORMITY, FAA FORM 317 (Attach when required)						
	C. CURRENT APPROVED FLIGHT MANUAL AVAILABLE IN AIRCRAFT		I. PREVIOUS AIRWORTHINESS CERTIFICATE ISSUED IN ACCORDANCE WITH						
	D. DATA, DRAWINGS, PHOTOGRAPHS, ETC. (Attach when required)		FAR <input type="checkbox"/> CAR <input type="checkbox"/> (Orig. attached)						
	E. CURRENT WEIGHT & BALANCE INFORMATION AVAILABLE IN AIRCRAFT		J. AIRWORTHINESS CERTIFICATE ISSUED IN ACCORDANCE WITH						
	F. MAJOR REPAIR AND ALTERATION, FAA FORM 337 (Attach when req.)		<input checked="" type="checkbox"/> FAR 21.183 (Copy attached)						
VI. FAA REPRESENTATIVE CERTIFICATION	X A. I have inspected the aircraft described above, find it conforms to its type certificate, and is in condition for safe operation.								
	B. I have inspected the aircraft described above, find it is in condition for safe experimental operation.								
	C. Current Airworthiness Certificate amended.								
DATE 5-26-67	DESIGNATION NO. Delegation Option PC 201	OFFICE NO. SW-EMDO-43	SIGNATURE Mooney Aircraft, Inc. by: 	NOA SW-1					

FAA AIRCRAFT REGISTRY
CAMERA NO. 41 DATE: 2-14-84



UNITED STATES OF AMERICA — FEDERAL AVIATION AGENCY
STANDARD AIRWORTHINESS CERTIFICATE

1. NATIONALITY AND REGISTRATION MARKS	2. MANUFACTURER AND MODEL	3. AIRCRAFT SERIAL NUMBER	4. CATEGORY
N3275F	AVIATION Mooney M-20F	1670368	Normal

5. AUTHORITY AND BASIS FOR ISSUANCE

This airworthiness certificate is issued pursuant to the Federal Aviation Act of 1968 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, preventive maintenance, and alterations are performed in accordance with Parts 21, 43, and 91 of the Federal Aviation Regulations, as appropriate, and the aircraft is registered in the United States.

DATE OF ISSUANCE	FAA REPRESENTATIVE	DESIGNATION NUMBER
5-26-67	Mooney Aircraft, Inc. by: [Signature]	Delegation Option PC 201

Any alteration, reproduction, or misuse of this certificate may be punishable by a fine not exceeding \$1,000, or imprisonment not exceeding 3 years, or both. THIS CERTIFICATE MUST BE DISPLAYED IN THE AIRCRAFT IN ACCORDANCE WITH APPLICABLE FEDERAL AVIATION REGULATIONS.

FAA Form 1362 (7-65)

0052-040-8000 (8100)

FAA AIRCRAFT REGISTRY
CAMERA NO. 4 / DATE: 2-14-84

NO #35829 - ab

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 GL-GADO-7 Columbus, Ohio	
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 Mooney		MODEL N 20F		
	SERIAL NO. 670368		NATIONALITY AND REGISTRATION MARK N 3275F		
2. OWNER	NAME (As shown on registration certificate) Richard M. Sawyer		ADDRESS (As shown on registration certificate) 15829 Bayview Blvd. Grabill, Indiana 46741		
3. FOR FAA USE ONLY					
4. UNIT IDENTIFICATION					
UNIT	MAKE	MODEL	SERIAL NO.	5. TYPE	
AIRFRAME	***** (As described in item 1 above)				XXX
POWERPLANT					
PROPELLER					
APPLIANCE	TYPE				
	MANUFACTURER				
6. CONFORMITY STATEMENT					
A. AGENCY'S NAME AND ADDRESS ElectroSonics Division AiRadio Corporation 4885 Sawyer Road Columbus, Ohio 43219		B. KIND OF AGENCY <input checked="" type="checkbox"/> U.S. CERTIFIED MECHANIC <input type="checkbox"/> FOREIGN CERTIFIED MECHANIC <input checked="" type="checkbox"/> CERTIFIED REPAIR STATION <input type="checkbox"/> MANUFACTURER		C. CERTIFICATE NO. Repair Station 1009 Radio Class 1, 2, & 3 Limited Instruments Limited Specialized Services	
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 March 13, 1979	SIGNATURE OF AUTHORIZED INDIVIDUAL <i>Willie H. Kenoyer</i>				
7. APPROVAL FOR RETURN TO SERVICE					
Pursuant to the authority given persons specified below, the unit identified in item 4 was inspected in the manner prescribed by the Administrator of the Federal Aviation Administration and is <input checked="" type="checkbox"/> APPROVED <input type="checkbox"/> REJECTED					
BY	FAA FLT. STANDARDS INSPECTOR	MANUFACTURER	INSPECTION AUTHORIZATION	OTHER (Specify)	
	FAA DESIGNEE <input checked="" type="checkbox"/>	REPAIR STATION	CANADIAN DEPARTMENT OF TRANSPORT INSPECTOR OF AIRCRAFT		
DATE OF APPROVAL OR REJECTION March 13, 1979	CERTIFICATE OR DESIGNATION NO. 1009	SIGNATURE OF AUTHORIZED INDIVIDUAL <i>Willie H. Kenoyer</i> (8320)			

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 SW-GADO GADO 2-1-62			
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	Mooney	MODEL	M20F		
	SERIAL NO.	670368	NATIONALITY AND REGISTRATION MARK		US275P	
2. OWNER	NAME (As shown on registration certificate)		ADDRESS (As shown on registration certificate)			
	Marshall Mooney Wood Paul W. Owner		1005 East Grand P.O. Box 200 Marshall, Texas 75670			
3. FOR FAA USE ONLY						
RECEIVED DEC 24 1969						
4. UNIT IDENTIFICATION						
UNIT AIRFRAME POWERPLANT PROPELLER APPLIANCE	MAKE	MODEL	SERIAL NO.	5. TYPE <input checked="" type="checkbox"/> REPAIR <input type="checkbox"/> ALTERATION		
	***** (As described in item 1 above) *****					
6. CONFORMITY STATEMENT						
A. AGENCY'S NAME AND ADDRESS L. H. Morrison c/o Modern Aero Sales, Inc. Redbird Airport Dallas, Texas 75232		B. 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		C. CERTIFICATE NO. A&P 1123811		
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 12-19-69		SIGNATURE OF AUTHORIZED INDIVIDUAL <i>L.H. Morrison</i>				
7. APPROVAL FOR RETURN TO SERVICE						
Pursuant to the authority given persons specified below, the unit identified in item 4 was inspected in the manner prescribed by the Administrator of the Federal Aviation Administration and is <input checked="" type="checkbox"/> APPROVED <input type="checkbox"/> REJECTED						
BY	FAA FLT. STANDARDS INSPECTOR	MANUFACTURER	<input checked="" type="checkbox"/> INSPECTION AUTHORIZATION	OTHER (Specify)		
	FAA DESIGNEE	REPAIR STATION	<input type="checkbox"/> CANADIAN DEPARTMENT OF TRANSPORT INSPECTOR OF AIRCRAFT			
DATE OF APPROVAL OR REJECTION 12-19-69		CERTIFICATE OR DESIGNATION NO. A&P 1123811				
SIGNATURE OF AUTHORIZED INDIVIDUAL <i>L.H. Morrison</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 following equipment was installed in this aircraft.
Narco MK 12A with VOA 8 Indicator.

The Narco MK 12A Panel Unit is mounted in the glove-box on the instrument panel.

The VOA 8 Indicator is mounted in the instrument panel right of the MK 12 A Panel Unit.

The Power Supply is mounted on the radio rack aft. baggage compartment.

The A-15 Antenna is mounted right forward corner of the belly access panel.

This installation meets the applicable requirements of AC 43-13-1 and AC 43-13-2.
A new Weight & Balance was computed and entered in aircraft log book.

ADDITIONAL SHEETS ARE ATTACHED

U.S. GOVERNMENT PRINTING OFFICE : 1947 OF - 272-085

1321-1071 37 DEC 26 '67

FEDERAL AVIATION AGENCY MAJOR REPAIR AND ALTERATION (Airframe, Powerplant, Propeller, or Appliance)				Form Approved Budget Bureau No. 04-R060.1		
				FOR FAA USE ONLY		
				OFFICE IDENTIFICATION SHV GADO		
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 MOONEY	MODEL M 20 E				
	SERIAL NO. 670368	NATIONALITY AND REGISTRATION MARK N3278P				
2. OWNER	NAME (As shown on registration certificate) Marshall Meeney		ADDRESS (As shown on registration certificate) P. O. Box 250 Marshall, Texas 75670			
3. FOR FAA USE ONLY						
4. UNIT IDENTIFICATION						
UNIT	MAKE	MODEL	SERIAL NO.	5. TYPE		
				-REPAIR	ALTER- ATION	
AIRFRAME	***** (As described in item 1 above) *****			XX		
POWERPLANT						
PROPELLER						
APPLIANCE	TYPE					
	MANUFACTURER					
6. CONFORMITY STATEMENT						
A. AGENCY'S NAME AND ADDRESS John C. Clark P. O. Box 903 Marshall, Texas		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. 1284637			
D. I certify that the repair and/or alteration made to the unit(s) identified in item 4 above and described on the reverse or attachments hereto have been made in accordance with the requirements of Part 43 of the U.S. Federal Aviation Regulations and that the information furnished herein is true and correct to the best of my knowledge.						
DATE 11-22-1967		SIGNATURE OF AUTHORIZED INDIVIDUAL <i>John C. Clark</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 Agency and is <input checked="" type="checkbox"/> APPROVED <input type="checkbox"/> REJECTED						
BY	FAA FLT. STANDARDS INSPECTOR	MANUFACTURER	X	INSPECTION AUTHORIZATION	OTHER (Specify)	
	FAA DESIGNEE	REPAIR STATION		CANADIAN DEPARTMENT OF TRANSPORT INSPECTOR OF AIRCRAFT	Verified by Operator #104	
DATE OF APPROVAL OR REJECTION 11-22-67		CERTIFICATE OR DESIGNATION NO. HP 1284637		SIGNATURE OF AUTHORIZED INDIVIDUAL <i>Laymon S. Sneed</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.)

Repair to wing tip of Mooney N 3275 F 11-23-1967.

Replace tip rib. Replace wing skin 1st. and 2nd. panels. Install .063 2024-T3 Doubler in main spar cut beard of reinforcing angles with 1/4" rivet spacing.

Install Doubler in rear spar at outboard aileron hinge. Material, .063 2024-T3 with 7/8" rivet spacing.

Repair left Aileron. Replace top and bottom skin and main spar with original thickness material and using original counter balance and end ribs.

Repairs accomplished in accordance with 18-30-4 (e)(4) and 18-30-4 (e)-(5)

OKLAHOMA CITY, OKLA.

DECEMBER 4, 1984

533-11

00000000

F U S E G O V E R N M E N T P R I N T I N G O F F I C E 1 9 6 5 O F - 7 6 1 - 7 4 8

FAA AIRCRAFT REGISTRY
ADDITIONAL SHEETS ARE ATTACHED



1245-1764-37 11-67

FEDERAL AVIATION AGENCY MAJOR REPAIR AND ALTERATION (Airframe, Powerplant, Propeller, or Appliance)		<i>Form Approved Budget Bureau No. 04-R060.1</i> FOR FAA USE ONLY OFFICE IDENTIFICATION SFT GADG 2-2-10
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INSTRUCTIONS: Print or type all entries. See FAR 43.9, FAR 43 Appendix B, and AC 43.9-1 (or subsequent revision thereof) for instructions and disposition of this form.

1. AIRCRAFT	MAKE Mooney	MODEL Mark 20F
	SERIAL NO. 670368	NATIONALITY AND REGISTRATION MARK N3275F
2. OWNER	NAME (As shown on registration certificate) Mooney Aircraft Inc.	ADDRESS (As shown on registration certificate) Kerrville, Texas

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 Charlie L. Dugosh c/o Dugosh Aircraft Serv. Co. Inc. Box 931, Kerrville, Texas	B. 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	C. CERTIFICATE NO. A&P 460254
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D. I certify that the repair and/or alteration made to the unit(s) identified in item 4 above and described on the reverse or attachments hereto have been made in accordance with the requirements of Part 43 of the U.S. Federal Aviation Regulations and that the information furnished herein is true and correct to the best of my knowledge.

DATE 6-17-67	SIGNATURE OF AUTHORIZED INDIVIDUAL Charlie L. Dugosh
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7. APPROVAL FOR RETURN TO SERVICE

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

BY	FAA FLT. STANDARDS INSPECTOR	MANUFACTURER	INSPECTION AUTHORIZATION	OTHER (Specify) <i>Verified by Operator #103</i>
	<input checked="" type="checkbox"/>		CANADIAN DEPARTMENT OF TRANSPORT INSPECTOR OF AIRCRAFT	
DATE OF APPROVAL OR REJECTION 6-17-67	CERTIFICATE OR DESIGNATION NO. A&P 460254	SIGNATURE OF AUTHORIZED INDIVIDUAL Charlie L. Dugosh		

FAA Form 337 (1-65) OBSOLETE PREVIOUS EDITION

0852-025-8000 (8320)

NOTICE

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

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

Installed Kett Polaris ADF per Mooney dwg. # 610188-501

Installed RAM-2 Sw. Kit per Mooney dwg. # 920009

Installed Britton NAV-2 Flight control per Mooney dwg # 830028-509

Installed Curtins per Mooney dwg. # 950184

Installed Hobbs engin hr. meter per Mooney factory instruction sheet

Wt. and bal. computed and compass checked.

Electrical load does not exceed 80 % of generator capacity which is 50 amps.

E.W. 1723 lbs. E.W.C.G. 44.6 aft Useful load 1017 lbs.

END

ADDITIONAL SHEETS ARE ATTACHED

U.S. GOVERNMENT PRINTING OFFICE : 1965 OF-761-748

1247-1070 37 JUL 11 '67

FEDERAL AVIATION AGENCY MAJOR REPAIR AND ALTERATION (Airframe, Powerplant, Propeller, or Appliance)				Form Approved Budget Bureau No. 04-R060.1
				FOR FAA USE ONLY
				OFFICE IDENTIFICATION SAT GAD 2-2-10
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	Mooney	MODEL	Mark 20F
	SERIAL NO.	670368	NATIONALITY AND REGISTRATION MARK N3275F	
2. OWNER	NAME (As shown on registration certificate) Mooney Aircraft Inc.		ADDRESS (As shown on registration certificate) Kerrville, Texas	
3. FOR FAA USE ONLY				
4. UNIT IDENTIFICATION				5. TYPE
UNIT	MAKE	MODEL	SERIAL NO.	REPAIR <input checked="" type="checkbox"/> ALTER- ATION <input type="checkbox"/>
AIRFRAME	***** (As described in item 1 above)			XX
POWERPLANT				
PROPELLER				
APPLIANCE	TYPE			
	MANUFACTURER			
6. CONFORMITY STATEMENT				
A. AGENCY'S NAME AND ADDRESS Charlie L. Dugosh c/o Dugosh Aircraft Serv. Co. Inc. Box 931, Kerrville, Texas		B. 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		C. CERTIFICATE NO. A&P 460254
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 6-2-67	SIGNATURE OF AUTHORIZED INDIVIDUAL Charlie L. Dugosh			
7. APPROVAL FOR RETURN TO SERVICE				
Pursuant to the authority given persons specified below, the unit identified in item 4 was inspected in the manner prescribed by the Administrator of the Federal Aviation Agency and is <input checked="" type="checkbox"/> APPROVED <input type="checkbox"/> REJECTED				
BY	FAA FLT. STANDARDS INSPECTOR	MANUFACTURER	INSPECTION AUTHORIZATION <input checked="" type="checkbox"/>	OTHER (Specify)
	FAA DESIGNEE	REPAIR STATION	CANADIAN DEPARTMENT OF TRANSPORT INSPECTOR OF AIRCRAFT	Verified by Operator #103
DATE OF APPROVAL OR REJECTION 6-2-67		CERTIFICATE OR DESIGNATION NO. A&P 460254		SIGNATURE OF AUTHORIZED INDIVIDUAL Charlie L. Dugosh

FAA Form 337 (1-65) OBSOLETE PREVIOUS EDITION

0052-026-8000 (8320)

NOTICE

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

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

Installed Electric gear kit per Mooney diag. # 560084

Wt. and bal. computed and compass checked.

Electrical load not affected.

E.W. 1705 lbs. E.W.C.G. 44.7 aft Useful load 1035 lbs.

END

ADDITIONAL SHEETS ARE ATTACHED



U.S. GOVERNMENT PRINTING OFFICE: 1965 OF-761-748