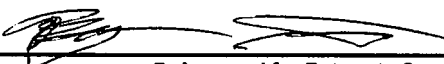

 US Department of Transportation <b>Federal Aviation Administration</b>		<b>MAJOR REPAIR AND ALTERATION</b> <b>(Airframe, Powerplant, Propeller, or Appliance)</b>		OMB No. 2120-0020 Exp: 5/31/2018		Electronic Tracking Number	
		For FAA Use Only					
INSTRUCTIONS: Print or type all entries. See Title 14 CFR §43.9, Part 43 Appendix B, and AC 43.9-1 (or subsequent revision thereof) for instructions and disposition of this form. This report is required by law (49 U.S.C. §44701). Failure to report can result in a civil penalty for each such violation. (49 U.S.C. §46301(a))							
<b>1. Aircraft</b>		Nationality and Registration Mark <b>USA N7037V</b>			Serial No. <b>22-1384</b>		
		Make <b>MOONEY</b>			Model <b>M20F</b>		Series
<b>2. Owner</b>		Name (As shown on registration certificate) <b>REID BOB</b>			Address (As shown on registration certificate) Address <b>2064 N MAPLE</b> City <b>MESA</b> State <b>ARIZONA</b> Zip <b>85215-2309</b> Country <b>UNITED STATES</b>		
<b>3. For FAA Use Only</b>							
<b>4. Type</b>		<b>5. Unit Identification</b>					
Repair	Alteration	Unit	Make	Model	Serial No.		
<input type="checkbox"/>	<input checked="" type="checkbox"/>	AIRFRAME	<u>MOONEY</u>	(As described in Item 1 above)		<u>22-1384</u>	
<input type="checkbox"/>	<input type="checkbox"/>	POWERPLANT					
<input type="checkbox"/>	<input type="checkbox"/>	PROPELLER					
<input type="checkbox"/>	<input type="checkbox"/>	APPLIANCE	Type	Manufacturer			
<b>6. Conformity Statement</b>							
<b>A. Agency's Name and Address</b>				<b>B. Kind of Agency</b>			
Name <u>Bryan Thelen</u> Address <u>3440 E. Southern ave 1117</u> City <u>Mesa</u> State <u>AZ</u> Zip <u>85204</u> Country <u>United States</u>				<input checked="" type="checkbox"/> U. S. Certificated Mechanic <input type="checkbox"/> Foreign Certificated Mechanic <input type="checkbox"/> Certificated Repair Station <input type="checkbox"/> Certificated Maintenance Organization			
				Manufacturer C. Certificate No. <div style="font-size: 1.5em; font-weight: bold;">3703562AP</div>			
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 <div style="text-align: center;">  <span style="font-size: 1.2em; margin-left: 20px;">10-13-20</span> </div>				
<b>7. Approval for Return to Service</b>							
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 <input checked="" type="checkbox"/> Approved <input type="checkbox"/> 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. <b>2754748IA</b>			Signature/Date of Authorized Individual <div style="text-align: center;">  <span style="font-size: 1.2em; margin-left: 20px;">10-13-2020</span> </div>				

## NOTICE

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

### 8. Description of Work Accomplished

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

United States

N7037V

10/13/2020

Nationality and Registration Mark

Date

Removed KR 86 ADF

Removed BFGoodrich flight systems Model F4 Loran-C receiver

### PRE INSTALLATION CONFORMITY CHECKS AND INSPECTIONS:

The aircraft records have been reviewed and the aircraft inspected for any previous alterations, modifications or repairs that may not be compatible with this alteration. It has been determined that this alteration is compatible with all previous alterations, modifications or repairs.

### INSTALLATION DETAILS:

Installed Garmin STC SA01933LA-D. Referencing Garmin Installation Manual 190-00356-02 October 2017 Rev. M. Installed unit PN: 011-010160-00 @ station 20.

### ICA DETAILS:

Provided customer with Garmin document Number 190-00356-65 Rev. D.

### WEIGHT AND BALANCE DETAILS:

No appreciable change to weight and balance.

### EQUIPMENT LIST DETAILS:

The aircraft Equipment list has been amended to include this alteration.

### ELA:

An electrical load analysis was performed and the revised continuous load of the aircraft electrical bus does not exceed 80% of capacity.

### AFMS:

The Aircraft Flight Manual was updated to include the STC Aircraft Flight Manual Supplement.

-----END-----

☐ Additional Sheets Are Attached

 US Department of Transportation Federal Aviation Administration		<b>MAJOR REPAIR AND ALTERATION</b> <b>(Airframe, Powerplant, Propeller, or Appliance)</b>		OMB No. 2120-0020 Exp: 5/31/2018		Electronic Tracking Number	
		For FAA Use Only					

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

<b>1. Aircraft</b>	Nationality and Registration Mark <b>N7037V</b>		Serial No. <b>22-1384</b>		
	Make <b>Mooney</b>		Model <b>M20F</b>	Series	

<b>2. Owner</b>	Name (As shown on registration certificate) <b>Bob &amp; Janet Reid</b>		Address (As shown on registration certificate) Address <b>2064 N Maple</b>		
			City <b>Mesa</b>	State <b>AZ</b>	
			Zip <b>85215</b>	Country <b>USA</b>	

3. For FAA Use Only

4. Type		5. Unit Identification			
Repair	Alteration	Unit	Make	Model	Serial No.
<input checked="" type="checkbox"/>	<input type="checkbox"/>	AIRFRAME	<u>Mooney</u>	(As described in Item 1 above)	<u>22-1384</u>
<input type="checkbox"/>	<input type="checkbox"/>	POWERPLANT			
<input type="checkbox"/>	<input type="checkbox"/>	PROPELLER			
<input type="checkbox"/>	<input type="checkbox"/>	APPLIANCE	Type Manufacturer		

6. Conformity Statement

A. Agency's Name and Address			B. Kind of Agency		
Name <b>Harald Govers</b> Address <b>710 S Winthrop</b> City <b>Mesa</b> State <b>AZ</b> Zip <b>85204</b> Country <b>USA</b>			<input checked="" type="checkbox"/> U. S. Certificated Mechanic <input type="checkbox"/> Foreign Certificated Mechanic <input type="checkbox"/> Certificated Repair Station <input type="checkbox"/> Certificated Maintenance Organization		
			Manufacturer C. Certificate No.		2794644

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  <div style="text-align: right; font-size: large;">7/14/2017</div>
--	--

7. Approval for Return to Service

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

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

Certificate or Designation No. <b>2794644</b>	Signature/Date of Authorized Individual  <div style="text-align: right; font-size: large;">7/14/2017</div>
---	--

NOTICE

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

**8. Description of Work Accomplished**

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

N7037V

7/14/2017

Nationality and Registration Mark

Date

Repaired fuselage cross member, part number 340117-21 at fuselage station 58, per AC43.13-1B, dated 9/8/98, Change 1, paragraph 4-97, figure 4-38, page 4-69. Fabricated repair piece from 4130 steel tubing, 0.5 inch diameter, 0.049 inch wall thickness and 2 sleeves from 4130 steel tubing, 0.625 inches diameter, 0.049 inch wall thickness.

Welded tubes per paragraph 4-77(a) and (b) and paragraph 4-86(d).

Inspected welds per paragraph 4-78 (a) through (g).

The repair has made no significant change in weight and balance.

☐ 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  
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 <u>N7037V</u>	Serial No. <u>22-1384</u>	
	Make <u>MOONEY</u>	Model <u>M20F</u>	Series
2. Owner	Name (As shown on registration certificate) <u>CHRIS LICENCE</u>		Address (As shown on registration certificate)
			Address <u>20825 S TIBERIUS DR</u>
			City <u>QUEEN CREEK</u> State <u>AZ</u>
			Zip <u>85242</u> Country <u>USA</u>

3. For FAA Use Only

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

6. Conformity Statement

A. Agency's Name and Address		B. Kind of Agency	
Name <u>JAMES KRAMER</u>	Address <u>3237 N RICARDO CIR</u> City <u>MESA</u> State <u>AZ</u> Zip <u>85215</u> Country <u>USA</u>	<input checked="" type="checkbox"/> U. S. Certificated Mechanic	Manufacturer
		<input type="checkbox"/> Foreign Certificated Mechanic	C. Certificate No.
		<input type="checkbox"/> Certificated Repair Station	<u>3114823</u>
		<input type="checkbox"/> Certificated Maintenance Organization	

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

Extended range fuel per 14 CFR Part 43 App. B <input type="checkbox"/>	Signature/Date of Authorized Individual <u>[Signature]</u> <u>5/1/07</u>
--	---

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	Inspection Authorization <input checked="" type="checkbox"/>	

Certificate or Designation No. <u>3114823</u>	Signature/Date of Authorized Individual <u>[Signature]</u> <u>5/1/07</u>
--	---

# 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.)

N7037U

Nationality and Registration Mark

5/1/07

Date

1. INSTALLED AERO TRIM MODEL 400 ELECTRIC TRIM SYSTEM,  
IN ACCORDANCE WITH STC SA111150


2. INSTALLATION MEETS CRITERIA IN AC-43.13/A, CHAPTER 11, SECTION  
1, 2, 3 AND 7 ELECTRICAL SYSTEMS,

3. UPDATED LOGS PER FAR 43.9

END

☐ Additional Sheets Are Attached

PTR 5#02-14/010

 US Department of Transportation Federal Aviation Administration		<b>MAJOR REPAIR AND ALTERATION</b> <b>(Airframe, Powerplant, Propeller, or Appliance)</b>		Form Approved OMB No. 2120-0020	
				For FAA Use Only	
				Office Identification WP-7520-07	
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 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		Nationality and Registration Mark U.S.A. N7037V	
	Serial No. 22-1384				
2. Owner	Name (As shown on registration certificate) BRIAN DRIGGERMAN TRUSTEE		Address (As shown on registration certificate) 15650 E. EL LAGO BLVD. FOUNTAIN HILLS, AZ. 85268		
3. For FAA Use Only					
4. Unit Identification					5. Type
Unit	Make	Model	Serial No.	Repair	Alteration
AIRFRAME	~~~~~ (As described in Item 1 above) ~~~~~				✓
POWERPLANT					
PROPELLER					
APPLIANCE	Type				
	Manufacturer				
6. Conformity Statement					
A. Agency's Name and Address FREDERICK W. HUG 1010 EAST RAWHIDE GILBERT, ARIZONA 85296		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. 1666801	
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 25, 2002		Signature of Authorized Individual Frederick W. Hug			
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		Person Approved by Transport Canada Airworthiness Group	
Date of Approval or Rejection 06-25-02		Certificate or Designation No. 1666801		Signature of Authorized Individual Frederick W. Hug	

### 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.


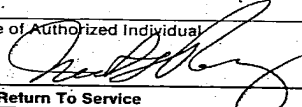
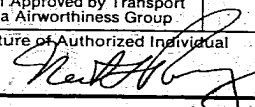
#### 8. Description of Work Accomplished

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

Mooney M20F N7037V S/N 22-1384 06-25-02

REMOVED OEM ALERT 50 E.L.T. S/N 5092.  
INSTALLED NEW T.S.O.-C91A AMERI-KING  
AK450, S/N 461949 E.L.T. IN SPACE  
VACATED BY ALERT 50. ALL WORK  
ACCOMPLISHED I/A/W MANUFACTURES  
INSTALLATION INSTRUCTIONS AND STAND-  
ARD AIRCRAFT PRACTICES. WT. AND BAL.  
AND EQUIPMENT LIST REVISED TO  
REFLECT CHANGES MADE.  
END

☐ Additional Sheets Are Attached

 <b>MAJOR REPAIR AND ALTERATION</b> <b>(Airframe, Powerplant, Propeller, or Appliance)</b>				Form Approved OMB No. 2120-0020 <b>For FAA Use Only</b> Office Identification <b>DFA-FSDQ</b>	
<b>INSTRUCTIONS:</b> 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.	22-1384		Nationality and Registration Mark	N 7637J
2. Owner	Name (As shown on registration certificate)			Address (As shown on registration certificate)	
	BRIAN BRISGERMAN			1113 EVERGREEN CHILICOTHE, IL 61523	
3. For FAA Use Only					
4. Unit Identification					
Unit	Make	Model	Serial No.	5. Type	
				Repair	Alteration
AIRFRAME	~~~~~ (As described in Item 1 above) ~~~~~				X
POWERPLANT	LYCOMING	IO-360-A1A	L-15348-51A		X
PROPELLER					
APPLIANCE	Type				
	Manufacturer				
6. Conformity Statement					
A. Agency's Name and Address			B. Kind of Agency		C. Certificate No.
NEIL L. ROBANZ 3013 9th ST E. Moline, IL 61244			<input checked="" type="checkbox"/> U.S. Certificated Mechanic <input type="checkbox"/> Foreign Certificated Mechanic <input type="checkbox"/> Certificated Repair Station <input type="checkbox"/> Manufacturer		1429959
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		
8 JUN 94					
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	<input checked="" type="checkbox"/>	Inspection Authorization	Other (Specify):
	FAA Designee	Repair Station		Person Approved by Transport Canada Airworthiness Group	
Date of Approval or Rejection		Certificate or Designation No.	Signature of Authorized Individual		
8 JUN 94		1429959			

**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 PRECISE FLIGHT INC MODEL SVSIII STAND BY VACUUM  
SYSTEM IAW STC SE 1779NM AND SA 2168NM PER INSTALLATION  
MANUAL REV #24 DTD 01-03-92. NEGLIGIBLE WT CGE. ALL WORK  
IAW AC 43.13,1 AND AC 43.13,2 - END -

☐ Additional Sheets Are Attached

 U.S. Department of Transportation Federal Aviation Administration		<b>MAJOR REPAIR AND ALTERATION</b> (Airframe, Powerplant, Propeller, or Appliance)		Form Approved OMB No. 2120-0020 For FAA Use Only Office Identification <b>GL-FSDO-19</b> <i>MC</i>	
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 <b>Mooney</b> Serial No. <b>22-1384</b>		Model <b>M20F</b> Nationality and Registration Mark <b>N 7037V</b>	
2. Owner		Name (As shown on registration certificate) <b>Brian L Briggerman</b> <b>Jean M Briggerman</b>		Address (As shown on registration certificate) <b>1113 Evergreen</b> <b>Chillicothe IL 61523</b>	
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 BY FAR PART 43, SECTION 43.7. <b>SPI FSDO MAR 0 3 1993</b> <i>Robert P. Vail</i>					
Unit		Make		Model	
AIRFRAME		(As described in item 1 above)		Serial No.	
POWERPLANT				Repair	
PROPELLER				Alteration	
APPLIANCE		Type		Manufacturer	
4. Unit Identification District Office <i>Chillicothe, IL</i>					
5. Type Repair <input type="checkbox"/> Alteration <input checked="" type="checkbox"/>					
6. Conformity Statement A. Agency's Name and Address <b>Bloomington Avionics Inc</b> <b>Bloomington/Normal Airport</b> <b>Bloomington IL 61704</b>					
B. Kind of Agency <input type="checkbox"/> U.S. Certified Mechanic <input checked="" type="checkbox"/> Foreign Certified Mechanic <input checked="" type="checkbox"/> Certified Repair Station <input type="checkbox"/> Manufacturer					
C. Certificate No. <b>MB5R035N</b>					
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			
February 26, 1993		<b>Gregory K Vail</b> <i>Gregory K Vail</i>			
7. Approval for Return To Service Pursuant to the authority given persons specified below, the unit identified in item 4 was inspected in the manner prescribed by the Administrator of the Federal Aviation Administration and is <input checked="" type="checkbox"/> APPROVED <input type="checkbox"/> REJECTED					
BY		FAA Fit. Standards Inspector		Manufacturer	
		FAA Designee		Repair Station	
Date of Approval or Rejection		Certificate or Designation No.		Inspection Authorization	
March 5, 1993		MB5R035N		Person Approved by Transport Canada Airworthiness Group Signature of Authorized Individual <b>Gregory K Vail</b> <i>Gregory K Vail</i>	

FAA Form 337, (12-88)

MAR 09 1993

MAR 02 1993

**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.)

B F Goodrich Aerospace/Foster F-4/(F-14)

1. Installed B F Goodrich Aerospace/Foster F-14 Loran-C, P/N 805D0630-41, S/N 5472, Software 2.3. F-14 Loran-C meets or exceeds TSO C-60a. F-14 Loran-C is not coupled to any other systems in the aircraft at this time.
2. Wiring diagrams that were used as reference are from Foster F4/LRN 500 Installation Manual, p/n 009A0631A, (with REV. #4 and Addendum Numbers 1 & 2). Drawings 2.8.1 Interconnect Wiring Diagram, page 2-8, Rev 04.
3. Parts, hardware, and connectors supplied by installation kit from manufacturer.

AC 43.13-1A, Chapter 11. Electrical Systems, Section 2. EQUIPMENT INSTALLATION, paragraphs 424., 428., 429., 430., were used as reference. Performed electrical load evaluation and found requirements to be within the aircraft electrical systems rated output. The B F Goodrich/Foster F-14 system is powered from the avionics DC power buss through a 3 amp circuit breaker labeled "Loran".

Wire size was determined by manufacturers installation manuals. All wire used was installed per AC 43.13-1A, Chapter 11. Electrical Systems, Section 3. ELECTRIC WIRE. All wire used meets applicable guidelines from Figure 11.7b Wire used in aircraft installations, Par 444, this chapter.

F-14 mounting rack and hardware were installed per Foster install manual, page 2-13. Also used as a reference was AC 43.13-2A, Chapter 2: Radio installations, as applicable.

4. Aircraft equipment list, weight & balance revised. Copy of work order # 6972, a revised equipment list, weight & balance are on file at this repair station.
5. This aircraft has been placarded "Loran-C Not Approved For IFR".
6. Foster LRN501/F14 Operation Manual, p/n 002A0640A, dated 1 June 1991, has been included with aircraft paperwork and must be available to the pilot at all times.
7. Loran-C System checked per AC 20.121A and meets or exceeds requirements for VFR flight.
8. See other FAA 337, dated 02/26/93 for information on mounting of NY-154 Loran-C antenna.

☐ Additional Sheets Are Attached

 U.S. Department of Transportation Federal Aviation Administration		MAJOR REPAIR AND ALTERATION (Airframe, Powerplant, Propeller, or Appliance)		Form Approved OMB No. 2120-0020	
		For FAA Use Only Office Identification <b>GL-FSDO-19</b>			
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.	22-1384		Nationality and Registration Mark	N 7037V
2. Owner	Name (As shown on registration certificate)			Address (As shown on registration certificate)	
	Brian L Briggerman Jean M Briggerman			1113 Evergreen Chillicothe IL 61523	
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 BY FAR PART 43, SECTION 43.7.					
SPI FSDO MAR 03 1993 <i>[Signature]</i>					
Unit	Make	Model	Serial No.	5. Type	
AIRFRAME	(As described in Item 1 above)			Repair	Alteration
POWERPLANT					X
PROPELLER					
APPLIANCE	Type				
	Manufacturer				
6. Conformity Statement					
A. Agency's Name and Address			B. Kind of Agency		C. Certificate No.
Bloomington Avionics Inc. Bloomington/Normal Airport Bloomington IL 61704			<input type="checkbox"/> U.S. Certificated Mechanic		MB5R035N
			<input type="checkbox"/> Foreign Certificated Mechanic		
			<input checked="" type="checkbox"/> Certificated Repair Station		
			<input type="checkbox"/> Manufacturer		
D. I certify that the repair and/or alteration made to the unit(s) identified in item 4 above and described on the reverse or attachments hereto have been made in accordance with the requirements of Part 43 of the U.S. Federal Aviation Regulations and that the information furnished herein is true and correct to the best of my knowledge.					
Date			Signature of Authorized Individual		
February 26, 1993			Gregory K Vail <i>[Signature]</i>		
7. Approval for Return To Service					
Pursuant to the authority given persons specified below, the unit identified in item 4 was inspected in the manner prescribed by the Administrator of the Federal Aviation Administration and is <input checked="" type="checkbox"/> APPROVED <input type="checkbox"/> REJECTED					
BY	FAA Fit. Standards Inspector	Manufacturer	Inspection Authorization		Other (Specify)
	FAA Designee	X	Repair Station	Person Approved by Transport Canada Airworthiness Group	
Date of Approval or Rejection		Certificate or Designation No.	Signature of Authorized Individual		
March 5, 1993		MB5R035N	Gregory K. Vail <i>[Signature]</i>		

MAR 09 1993

**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.)

**Insight Avionics Strike Finder SF-2000**

1. Installed Insight Avionics Strike Finder, Model SF-2000. System consisting of one each of the following: SF-2000 Display, p/n 2000-021-009, s/n 002102 and a SF-2000 Sensor, p/n 2000-022, s/n 002367. Details of sensor installation on other FAA 337 dated 02/26/93.

2. Strike Finder SF-2000 system was installed per manufactures installation manual, p/n 2000-10 using parts and hardware, and connector supplied by installation kit from manufacturer.


AC 43.13-1A, Chapter 11. Electrical Systems, Section 2. EQUIPMENT INSTALLATION, paragraphs 424., 428., 429., 430., were used as reference. Performed electrical load evaluation and found requirements to be within the aircraft electrical systems rated output. The Strike Finder SF-2000 system is powered from the avionics DC power buss through a 2 amp circuit breaker labeled "SF-2000".

Cable used was part of the factory supplied installation kit. Wired per drawing no. 2000-019, Rev. D, dated 09/11/90.

3. Aircraft weight & balance and equipment list revised this date. Copies of Work Order # 6872, revised equipment list, and revised weight & balance are on file at this repair station.
4. An Insight Avionics Strike Finder Owner's Operational Manual, Drawing No. 2000-01, was included in aircraft paperwork.
5. SF-2000 system had no adverse effects on other aircraft systems.
6. This aircraft has been placarded "Navigation will not be predicated on data from the Strike Finder."

END

☐ Additional Sheets Are Attached

 U.S. Department of Transportation Federal Aviation Administration		<b>MAJOR REPAIR AND ALTERATION</b> (Airframe, Powerplant, Propeller, or Appliance)		Form Approved OMB No. 2120-0020 For FAA Use Only Office Identification <b>GL-FSDO-19</b>	
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.	22-1384		Nationality and Registration Mark	N 7037V
2. Owner	Name (As shown on registration certificate)	Brian L Briggerman		Address (As shown on registration certificate)	
	Jean M Briggerman			1113 Evergreen Chillicothe IL 61523	
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 BY FAR PART 43, SECTION 43.7. <b>SPI FSDO</b> MAR 02 1993 <i>[Signature]</i> District Office 4. U.S. Identification of FAA Inspector					
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 Bloomington Avionics Inc. Bloomington/Normal Airport Bloomington IL 61704 B. Kind of Agency <input type="checkbox"/> U.S. Certificated Mechanic <input type="checkbox"/> Foreign Certificated Mechanic <input checked="" type="checkbox"/> Certificated Repair Station <input type="checkbox"/> Manufacturer C. Certificate No. MB5R035N					
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			
February 26, 1993		Gregory K Vail <i>[Signature]</i>			
7. Approval for Return To Service Pursuant to the authority given persons specified below, the unit identified in item 4 was inspected in the manner prescribed by the Administrator of the Federal Aviation Administration and is <input checked="" type="checkbox"/> APPROVED <input type="checkbox"/> REJECTED					
BY	FAA Fit Standards Inspector	Manufacturer	Inspection Authorization		
	FAA Designee	X Repair Station	Person Approved by Transport Canada Airworthiness Group		
Date of Approval or Rejection		Certificate or Designation No.	Signature of Authorized Individual		
March 5, 1993		MB5R035N	Gregory K Vail <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.)

Installed Insight Avionics Corporation, SF-2000 Sensor (antenna), p/n 2000-022, s/n 002367. Sensor is mounted on bottom of aircraft fuselage at FS 128.00.

Sensor doubler plate was fabricated from 2024T-3 .040 aluminum. Insight drawing No. 200-004, was used as a guide in fabricating the doubler plate. Doubler plate was made using AC 43.13-2A, Chapter 3. ANTENNA INSTALLATIONS, Paragraph 38. VHF ANTENNA-RIGID sub-paragraph b. Installation of Rigid Antenna, as a guide line.


Sensor doubler installed using AC 43.13-1A, Section 3. METAL REPAIR PROCEDURES, Paragraph 99. Riveting, as a reference. Also used Insight drawings No. 2000-035 and 2000-029. Copies are attached.

This installation of the SF-2000 Sensor antenna was sealed per section 2.3, (page 5), of the Strike Finder Installation Manual.

Aircraft equipment list, weight & balance revised. Copy of work order # 6872, a copy of revised equipment list, copy of new weight & balance are on file at this repair station.

Aircraft Nationality and Registration Mark		Date Work Completed	
N111X		4-7-93	
Aircraft Make and Model		Engine Make and Model	
Boeing 737-400		Pratt & Whitney JT8D-9	
Aircraft Weight and Balance		Engine Weight and Balance	
1111X		JT8D-9	
Aircraft Equipment List		Engine Equipment List	
6872		JT8D-9	
Aircraft Maintenance Log		Engine Maintenance Log	
1111X		JT8D-9	
Aircraft Repair Order		Engine Repair Order	
6872		JT8D-9	
Aircraft Inspection Report		Engine Inspection Report	
1111X		JT8D-9	
Aircraft Flight Log		Engine Flight Log	
1111X		JT8D-9	
Aircraft Ground Log		Engine Ground Log	
1111X		JT8D-9	
Aircraft Fuel Log		Engine Fuel Log	
1111X		JT8D-9	
Aircraft Oil Log		Engine Oil Log	
1111X		JT8D-9	
Aircraft Tire Log		Engine Tire Log	
1111X		JT8D-9	
Aircraft Landing Gear Log		Engine Landing Gear Log	
1111X		JT8D-9	
Aircraft Propeller Log		Engine Propeller Log	
1111X		JT8D-9	
Aircraft Cabin Log		Engine Cabin Log	
1111X		JT8D-9	
Aircraft Cargo Log		Engine Cargo Log	
1111X		JT8D-9	
Aircraft Baggage Log		Engine Baggage Log	
1111X		JT8D-9	
Aircraft Miscellaneous Log		Engine Miscellaneous Log	
1111X		JT8D-9	

☐ Additional Sheets Are Attached

 U.S. Department of Transportation Federal Aviation Administration		<b>MAJOR REPAIR AND ALTERATION</b> (Airframe, Powerplant, Propeller, or Appliance)		Form Approved OMB No. 2120-0020 For FAA Use Only Office Identification <b>GL-FSDO-19</b> <i>DM</i>	
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.	22-1384		Nationality and Registration Mark	N 7037V
2. Owner	Name (As shown on registration certificate)			Address (As shown on registration certificate)	
	Brian L Briggerman Jean M Briggerman			1113 Evergreen Chillicothe IL 61523	
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 BY FAR PART 43, SECTION 43.7 <b>SPI FSDO MAR 03 1993</b> <i>Gregory K Vail</i>					
Unit		Make	Model	Serial No.	5. Type
AIRFRAME		(As described in Item 1 above)			Repair
POWERPLANT					Alteration
PROPELLER					
APPLIANCE		Type			
		Manufacturer			
6. Conformity Statement A. Agency's Name and Address Bloomington Avionics Inc Bloomington/Normal Airport Bloomington IL 61704 B. Kind of Agency U.S. Certified Mechanic Foreign Certified Mechanic X Certified Repair Station Manufacturer C. Certificate No. MB5R035N 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			
February 26, 1993		Gregory K Vail <i>Gregory K Vail</i>			
7. Approval for Return To Service Pursuant to the authority given persons specified below, the unit identified in item 4 was inspected in the manner prescribed by the Administrator of the Federal Aviation Administration and is <input checked="" type="checkbox"/> APPROVED <input type="checkbox"/> REJECTED					
BY	FAA Fit. Standards Inspector	Manufacturer	Other (Specify)		
	FAA Designee	X Repair Station	Person Approved by Transport Canada Airworthiness Group		
Date of Approval or Rejection		Certificate or Designation No.	Signature of Authorized Individual		
March 5, 1993		MB5R035N	Gregory K Vail <i>Gregory K Vail</i>		

**NOTICE**

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

**8. Description of Work Accomplished**

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

Installed Foster Airdata Model NY-154 Loran-C Bent Whip Antenna with Integral Preamplifier, S/N 4987. Antenna/preamp mounted on bottom of aircraft at FS. 107.00.

Antenna installed per Foster Airdata Systems, Inc. for LRN-500 & LRN501/F4 & F14 Loran-C Navigation System Installation Manual, p/n 009A0631A (with Rev.#4 and Addendum Numbers 1 and 2).

Antenna doubler plate was provided by manufacturer with the install kit for NY-154 Loran-C antenna. Installed using AC 43.13-1A, Section 3. METAL REPAIR PROCEDURES, Paragraph 99. Riveting, and AC 43.13-2A, Chapter 3. ANTENNA INSTALLATIONS, Paragraph 38. VHF ANTENNA-RIGID as a reference.

Antenna installed per pages 2-16 & 2-17, par. 2.9.1 Antenna Installation. Also referenced from same pages, Figure 2-14, 2-15, and 2-16. A copy of each is attached.

Antenna has a Maximum TAS Speed of 250 Knots, as listed by the Loran-C manufacturer on page 1-2, Section 1 of installation manual.

Aircraft equipment list, weight & balance revised. Copy of work order # 6872, a copy of revised equipment list, and a copy of new weight & balance are on file at this repair station.

A different FAA 337 with same date has details of the installation of the panel unit.

☐ Additional Sheets Are Attached

U.S. DEPARTMENT OF TRANSPORTATION FEDERAL AVIATION ADMINISTRATION				Form Approved Budget Bureau No. 04-R060.1	
MAJOR REPAIR AND ALTERATION (Airframe, Powerplant, Propeller, or Appliance)				FOR FAA USE ONLY	
INSTRUCTIONS: Print or type all entries. See FAR 43.9, FAR 43 Appendix B, and AC 43.9-1 (or subsequent revision thereof) for instructions and disposition of this form.				OFFICE IDENTIFICATION GL-19 Jm	
1. AIRCRAFT	MAKE	MODEL			
	SERIAL NO.	NATIONALITY AND REGISTRATION MARK			
2. OWNER	NAME (As shown on registration certificate)		ADDRESS (As shown on registration certificate)		
	BRIGGERMAN, BRIAN L. BRIGGERMAN, JEAN M.		1113 EVERGREEN CHILLICOTHE, IL. 61523		
3. FOR FAA USE ONLY					
4. UNIT IDENTIFICATION					
UNIT	MAKE	MODEL	SERIAL NO.	5. TYPE	
AIRFRAME	(As described in item 1 above)			REPAIR	ALTERATION
POWERPLANT					XX
PROPELLER					
APPLIANCE	TYPE				
	MANUFACTURER				
6. CONFORMITY STATEMENT					
A. AGENCY'S NAME AND ADDRESS		B. KIND OF AGENCY		C. CERTIFICATE NO.	
RAYMOND GEPFORD P.O. BOX 69 Marshall Co. Airport LACON, IL. 61540		<input checked="" type="checkbox"/> U.S. CERTIFICATED MECHANIC <input type="checkbox"/> FOREIGN CERTIFICATED MECHANIC <input type="checkbox"/> CERTIFICATED REPAIR STATION <input type="checkbox"/> MANUFACTURER		A&P336340080	
D. I certify that the repair and/or alteration made to the unit(s) identified in item 4 above and described on the reverse or attachments hereto have been made in accordance with the requirements of Part 43 of the U.S. Federal Aviation Regulations and that the information furnished herein is true and correct to the best of my knowledge.					
DATE 9/27/92		SIGNATURE OF AUTHORIZED INDIVIDUAL RAYMOND GEPFORD <i>Raymond Gepford</i>			
7. APPROVAL FOR RETURN TO SERVICE					
Pursuant to the authority given persons specified below, the unit identified in item 4 was inspected in the manner prescribed by the Administrator of the Federal Aviation Administration and is <input checked="" type="checkbox"/> APPROVED <input type="checkbox"/> REJECTED					
BY	FAA RT. STANDARDS INSPECTOR	MANUFACTURER	XX	INSPECTION AUTHORIZATION	OTHER (Specify)
	FAA DESIGNER	REPAIR STATION		CANADIAN DEPARTMENT OF TRANSPORT INSPECTOR OF AIRCRAFT	
DATE OF APPROVAL OR REJECTION 9/27/92		CERTIFICATE OR DESIGNATION NO. I.A. 336340080		SIGNATURE OF AUTHORIZED INDIVIDUAL RAYMOND GEPFORD <i>Raymond Gepford</i>	

**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.)

9/27/92 MONNEY M20F N7037V S/N 22-1384

INSTALLED NOSE GEAR TRUSS-REPLACEMENT BUSHING WITH PARTS AS LISTED.

1@ 222-914007-004-005 BUSHING

1@ NAS1307-720 BOLT

2@ AN96Q-716 WASHER

1@ AN310 -7 . NUT

1@ AN380-3-3 COTTERPIN

1@ L-025-REAM-628 .628 REAMER (TOOL)

INSTALLED IN ACCORDANCE WITH STC# SA3540NM AND INSTRUCTIONS PROVIDED ON LAKE AERO  
STYLING AND REPAIR DRAWING LIST REPORT NO.122A.

END

U.S. DEPARTMENT OF TRANSPORTATION FEDERAL AVIATION ADMINISTRATION				Form Approved Budget Bureau No. 04-R060.1	
MAJOR REPAIR AND ALTERATION (Airframe, Powerplant, Propeller, or Appliance)				FOR FAA USE ONLY OFFICE IDENTIFICATION GL-19 <i>[Signature]</i>	
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		NATIONALITY AND REGISTRATION MARK N7037V	
	SERIAL NO. 22-1384				
2. OWNER	NAME (As shown on registration certificate) BRIGGERMAN, BRIAN L. BRIGGERMAN, JEAN M.		ADDRESS (As shown on registration certificate) 1113 EVERGREEN CHILLICOTHE, IL. 61523		
3. FOR FAA USE ONLY					
4. UNIT IDENTIFICATION					5. TYPE
UNIT	MAKE	MODEL	SERIAL NO.	REPAIR	ALTERATION
AIRFRAME	***** (As described in item 1 above) *****				
POWERPLANT	LYCOMING	IO-360-A1A	L-15348-51A		XX
PROPELLER					
APPLIANCE	TYPE				
	MANUFACTURER				
6. CONFORMITY STATEMENT					
A. AGENCY'S NAME AND ADDRESS			B. KIND OF AGENCY		C. CERTIFICATE NO.
RAYMOND GEFFORD P.O. BOX 69 Marshall Co. Airport LACON, IL. 61540			<input checked="" type="checkbox"/> U.S. CERTIFICATED MECHANIC <input type="checkbox"/> FOREIGN CERTIFICATED MECHANIC <input type="checkbox"/> CERTIFICATED REPAIR STATION <input type="checkbox"/> MANUFACTURER		A&P336340080
D. I certify that the repair and/or alteration made to the unit(s) identified in item 4 above and described on the reverse or attachments hereto have been made in accordance with the requirements of Part 43 of the U.S. Federal Aviation Regulations and that the information furnished herein is true and correct to the best of my knowledge.					
DATE 9/27/92		SIGNATURE OF AUTHORIZED INDIVIDUAL RAYMOND GEFFORD <i>[Signature]</i>			
7. APPROVAL FOR RETURN TO SERVICE					
Pursuant to the authority given persons specified below, the unit identified in item 4 was inspected in the manner prescribed by the Administrator of the Federal Aviation Administration and is <input checked="" type="checkbox"/> APPROVED <input type="checkbox"/> REJECTED					
BY	FAA FLT. STANDARDS INSPECTOR	MANUFACTURER	XX	INSPECTION AUTHORIZATION	OTHER (Specify)
	FAA DESIGNEE	REPAIR STATION		CANADIAN DEPARTMENT OF TRANSPORT INSPECTOR OF AIRCRAFT	
DATE OF APPROVAL OR REJECTION 9/27/92		CERTIFICATE OR DESIGNATION NO. T.A. 336340080		SIGNATURE OF AUTHORIZED INDIVIDUAL RAYMOND GEFFORD <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 METAL PROP GOVERNOR OIL LINE IN ACCORDANCE WITH AD 90-04-06R1 AMDT 39-6915 PARA. (B) INSTALLED FLEX HOSE WITH STEEL FITTINGS IN ACCORDANCE WITH PARA. (C) AND APPENDIX 2 (A)-(F) AND AC43.13-1A CHAPTER 10. HOSES WERE MANUFACTURED BY SUPERIOR AIRPARTS HOSE SHOP WITH TSO-C53A. TYPE D HOSE WRAPED IN FIRE SHIELD.

END

☐ ADDITIONAL SHEETS ARE ATTACHED

U.S. DEPARTMENT OF TRANSPORTATION FEDERAL AVIATION ADMINISTRATION				Form Approved Budget Bureau No. 04-R060.1	
MAJOR REPAIR AND ALTERATION (Airframe, Powerplant, Propeller, or Appliance)				FOR FAA USE ONLY OFFICE IDENTIFICATION GL-19 <i>LM</i>	
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.	22-1384		NATIONALITY AND REGISTRATION MARK	N7037V
2. OWNER	NAME (As shown on registration certificate)			ADDRESS (As shown on registration certificate)	
	BRIGGERMAN, BRIAN L. BRIGGERMAN, JEAN M.			1113 EVERGREEN CHILLICOTHE, IL. 61523	
3. FOR FAA USE ONLY					
4. UNIT IDENTIFICATION					
UNIT	MAKE	MODEL	SERIAL NO.	REPAIR	ALTERATION
AIRFRAME	***** (As described in item 1. above) *****				XX
POWERPLANT					
PROPELLER					
APPLIANCE	TYPE				
	MANUFACTURER				
6. CONFORMITY STATEMENT					
A. AGENCY'S NAME AND ADDRESS		B. KIND OF AGENCY		C. CERTIFICATE NO.	
RAYMOND GEFFORD P.O. BOX 69 Marshall Co. Airport LACON, IL. 61540		<input checked="" type="checkbox"/> U.S. CERTIFICATED MECHANIC <input type="checkbox"/> FOREIGN CERTIFICATED MECHANIC <input type="checkbox"/> CERTIFICATED REPAIR STATION <input type="checkbox"/> MANUFACTURER		A&P336340080	
D. I certify that the repair and/or alteration made to the unit(s) identified in item 4 above and described on the reverse or attachments hereto have been made in accordance with the requirements of Part 43 of the U.S. Federal Aviation Regulations and that the information furnished herein is true and correct to the best of my knowledge.					
DATE 9/27/92		SIGNATURE OF AUTHORIZED INDIVIDUAL RAYMOND GEFFORD <i>Raymond Gefford</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	XX	INSPECTION AUTHORIZATION	OTHER (Specify)
	FAA DESIGNEE	REPAIR STATION		CANADIAN DEPARTMENT OF TRANSPORT INSPECTOR OF AIRCRAFT	
DATE OF APPROVAL OR REJECTION 9/27/92		CERTIFICATE OR DESIGNATION NO. I.A. 336340080		SIGNATURE OF AUTHORIZED INDIVIDUAL RAYMOND GEFFORD <i>Raymond Gefford</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.)

9/27/92 MOONEY M20F N7037V S/N 22-1384


REPLACED EXHISTING ENGINE AIRFILTER ASSEMBLY WITH A BRACKETT AIRCRAFT SPECIALTIES ASSEMBLY BA -6310 IN ACCORDANCE WITH STC# SA71GL AND APPROVED MODEL LIST NO.1

END

☐ ADDITIONAL SHEETS ARE ATTACHED

C FAA AC 73-4804

U.S. GOVERNMENT PRINTING OFFICE: 1988-659-121/40260

 <b>MAJOR REPAIR AND ALTERATION</b> <b>(Airframe, Powerplant, Propeller, or Appliance)</b>		Form Approved OMB No. 2120-0020			
		For FAA Use Only			
		Office Identification 6115			
<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 M 20			
	Serial No. 22-1384	Nationality and Registration Mark N 7030V			
2. Owner	Name (As shown on registration certificate) ✓ KABERNA, FRANK J	Address (As shown on registration certificate) ROUTE 2 WAGNER, SD 53780			
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.
ISLAND CITY AVIATION, INC. 865 21ST AVENUE CUMBERLAND, WI 54829			U.S. Certified Mechanic		CRS YEGR805K
			Foreign Certified Mechanic		
			X Certified Repair Station		
			Manufacturer		
<p>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.</p>					
Date 10/10/91			Signature of Authorized Individual <i>Richard Nerling</i>		
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>					
BY	FAA Flt. Standards Inspector	Manufacturer	Inspection Authorization	Other (Specify)	
	FAA Designee	X Repair Station	Person Approved by Transport Canada Airworthiness Group		
Date of Approval or Rejection 10/10/91		Certificate or Designation No. CRS YEGR805K	Signature of Authorized Individual <i>Richard Nerling</i>		

**NOTICE**

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

**8. Description of Work Accomplished**

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

**INSTALLED THE FOLLOWING:**

DESCRIPTION	REFERENCE
-ACK ENCODER S/N 6059	-ACK INSTALLATION MANUAL

The above installation conforms to approved methods outlined in AC-43-13-2A where applicable, chapter 2 fig. 2.2, paragraph 23, section A, B, C, D, E. Ramp tested above installation using ATC 600A signal generator. Installation performs to manufacturers specifications, and doesn't interfere with other aircraft systems. Added electrical load does not exceed aircraft charging systems capabilities. Aircraft weight and balance change is negligible.

**ALTIMETER**

-UNITED INSTRUMENT  
Tested 10/10/91 and complies with appendix E requirements. (tested to 20,000')

**ENCODER**

-ACK S/N 6059  
Certified as per FAR 91.411 in accordance with appendix 1 of Advisory Circular 43-6A.

**TRANSPONDER**

-KING KT 76  
Certified as per FAA FAR 91.411 in accordance with procedures outlined in appendix E of FAR 43.  
  
Certified as per FAA FAR 91.413 in accordance with procedures outlined in appendix F of FAR 43.

-----end-----

☐ Additional Sheets Are Attached

DEPARTMENT OF TRANSPORTATION FEDERAL AVIATION ADMINISTRATION APPLICATION FOR AIRWORTHINESS CERTIFICATE				INSTRUCTIONS—Print or type. Do not write in shaded areas; these are for FAA use only. Submit original only to an authorized FAA Representative. If additional space is required, use an attachment. For special flight permits complete Sections II and VI or VII as applicable.																																																																																																																																																																																																																																																																																																																																																																												
I. AIRCRAFT DESCRIPTION	1. REGISTRATION MARK	2. AIRCRAFT BUILDER'S NAME (make)	3. AIRCRAFT MODEL DESIGNATION	4. YR. MFG.	FAA CODING																																																																																																																																																																																																																																																																																																																																																																											
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II. CERTIFICATION REQUESTED	8. NUMBER OF ENGINES	9. PROPELLER BUILDER'S NAME (make)	10. PROPELLER MODEL DESIGNATION	11. AIRCRAFT IS																																																																																																																																																																																																																																																																																																																																																																												
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<b>VI. PRODUCTION FLIGHT TESTING</b>	<b>A. MANUFACTURER</b>		
	NAME		ADDRESS
	<b>B. PRODUCTION BASIS (Check applicable item)</b>		
	<input type="checkbox"/> PRODUCTION CERTIFICATE (Give production certificate number) <input type="checkbox"/> TYPE CERTIFICATE ONLY <input type="checkbox"/> APPROVED PRODUCTION INSPECTION SYSTEM		
<b>C. GIVE QUANTITY OF CERTIFICATES REQUIRED FOR OPERATING NEEDS:</b>			
DATE OF APPLICATION		NAME AND TITLE (Print or type)	SIGNATURE
<b>VII. SPECIAL FLIGHT PERMIT PURPOSES OTHER THAN PRODUCTION FLIGHT TEST</b>	<b>A. DESCRIPTION OF AIRCRAFT</b>		
	REGISTERED OWNER		ADDRESS
	BUILDER (Make)		MODEL
	SERIAL NUMBER		REGISTRATION MARK
	<b>B. DESCRIPTION OF FLIGHT</b>		
	FROM		TO
	VIA		DEPARTURE DATE
			DURATION
	<b>C. CREW REQUIRED TO OPERATE THE AIRCRAFT AND ITS EQUIPMENT</b>		
	<input type="checkbox"/> PILOT <input type="checkbox"/> CO-PILOT <input type="checkbox"/> NAVIGATOR <input type="checkbox"/> OTHER (Specify)		
	<b>D. THE AIRCRAFT DOES NOT MEET THE APPLICABLE AIRWORTHINESS REQUIREMENTS AS FOLLOWS:</b>		
	<b>E. THE FOLLOWING RESTRICTIONS ARE CONSIDERED NECESSARY FOR SAFE OPERATION (Use attachment if necessary)</b>		
<b>F. CERTIFICATION</b> —I hereby certify that I am the registered owner (or his agent) of the aircraft described above; that the aircraft is registered with the Federal Aviation Administration in accordance with Section 301 of the Federal Aviation Act of 1958, and applicable Federal Aviation Regulations; and that the aircraft has been inspected and is airworthy for the flight described.			
DATE		NAME AND TITLE (Print or type)	SIGNATURE
<b>VIII. AIRWORTHINESS DOCUMENTATION (FAA use only)</b>	<input checked="" type="checkbox"/> A. Operating Limitations and Markings in Compliance with FAR 21.31 as Applicable	<input checked="" type="checkbox"/> G. Statement of Conformity, FAA Form 317 (Attach when required)	
	<input type="checkbox"/> B. Current Operating Limitations Attached	<input type="checkbox"/> H. Foreign Airworthiness Certification for Import Aircraft (Attach when required)	
	<input type="checkbox"/> C. Data, Drawings, Photographs, etc. (Attach when required)	<input type="checkbox"/> I. Previous Airworthiness Certificate Issued in Accordance with FAR _____ CAR _____ (Original attached)	
	<input checked="" type="checkbox"/> D. Current Weight and Balance Information Available in Aircraft	<input type="checkbox"/> J. Current Airworthiness Certificate Issued in Accordance with FAR 21.183(b) _____ (Copy attached)	
	<input type="checkbox"/> E. Major Repair and Alteration, FAA 337 (Attach when required)		
	<input checked="" type="checkbox"/> F. This Inspection Recorded in Aircraft Records		

UNITED STATES OF AMERICA DEPARTMENT OF TRANSPORTATION - FEDERAL AVIATION ADMINISTRATION			
STANDARD AIRWORTHINESS CERTIFICATE			
1. NATIONALITY AND REGISTRATION MARKS	2. MANUFACTURER AND MODEL	3. AIRCRAFT SERIAL NUMBER	4. CATEGORY
N7037V	Mooney Aircraft Corp. M20F	27-1384	Normal
5. AUTHORITY AND BASIS FOR ISSUANCE This airworthiness certificate is issued pursuant to Federal Aviation Act of 1958 and certifies that, as of the date of issuance, the aircraft to which issued has been inspected and found to conform to the type certificate therefor, to be in condition for safe operation, and has been shown to meet the requirements of the applicable comprehensive and detailed airworthiness code as provided by Annex 8 to the Convention on International Civil Aviation, except as noted herein. Exceptions:			
None			
6. TERMS AND CONDITIONS Unless sooner surrendered, suspended, revoked, or a termination date is otherwise established by the Administrator, this airworthiness certificate is effective as long as the aircraft is maintained, repaired, and alterations are performed in accordance with Parts 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	
6/28/76	Thomas D. Webb	DMIR SW-2041	
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 337, Rev. 1-78

1. AIRCRAFT REGISTRATION NO. 101-123456

2. AIRCRAFT TYPE Boeing 737-400

3. AIRCRAFT MAKE Boeing

4. AIRCRAFT MODEL 737-400

5. AIRCRAFT SERIAL NO. 25112

6. AIRCRAFT WEIGHT 175,000

7. AIRCRAFT LENGTH 145

8. AIRCRAFT WINGSPAN 112

9. AIRCRAFT HEIGHT 41

10. AIRCRAFT MAX CRUISE SPEED 844

11. AIRCRAFT MAX ALTITUDE 41,000

12. AIRCRAFT MAX PASSENGER CAPACITY 189

13. AIRCRAFT MAX FUEL CAPACITY 17,500

14. AIRCRAFT MAX TAKEOFF WEIGHT 255,000

15. AIRCRAFT MAX LANDING WEIGHT 204,000

16. AIRCRAFT MAX Ramp Weight 204,000

17. AIRCRAFT MAX Ramp Weight Limit 204,000

18. AIRCRAFT MAX Ramp Weight Limit 204,000

19. AIRCRAFT MAX Ramp Weight Limit 204,000

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UNITED STATES OF AMERICA  
DEPARTMENT OF TRANSPORTATION  
FEDERAL AVIATION ADMINISTRATION  
**STATEMENT OF CONFORMITY**

SECTION I - AIRCRAFT	
1. MAKE <b>Mooney Aircraft Corporation</b>	2. MODEL <b>M20F</b>
3. SERIAL NO. <b>22-1384</b>	4. REGISTRATION NO. <b>N7037V</b>
SECTION II - ENGINE	
1. MAKE	2. MODEL
3. SERIAL NO.	
SECTION III - PROPELLER	
1. MAKE	2. HUB MODEL
3. BLADE MODEL	4. HUB SERIAL NO.
5. BLADE SERIAL NOS.	
SECTION IV - CERTIFICATION	
I hereby certify that:	
<input checked="" type="checkbox"/> A. I have complied with Section 21.33(a), a person responsible for the design and construction of the aircraft.	
<input checked="" type="checkbox"/> B. The aircraft described above, produced under type certificate only (FAR 21 Subpart F), conforms to its type certificate, is in a condition for safe operation, and was flight checked on <u>6/28/76</u> (Date).	
<input type="checkbox"/> C. The engine or propeller described above, presented herewith for type certification, conforms to the type design therefor.	
<input type="checkbox"/> D. The engine or propeller described above produced under type certificate only (FAR 21 Subpart F), conforms to its type certificate and is in a condition for safe operation. The engine or, if applicable, the variable pitch propeller was subjected by the manufacturer to a final operational check on _____ (Date).	
Deviations: <b>None</b>	
SIGNATURE OF CERTIFIER <u>Howard E. Lang</u> TITLE <b>Director, Product Quality</b>	
ORGANIZATION <b>Mooney Aircraft Corporation</b> DATE <b>6/28/76</b>	

# INSTRUCTIONS

This form should be submitted to a representative of the Administrator under the following circumstances:

1. By the applicant for a type certificate or a supplemental type certificate at the time he presents an aircraft or parts thereof to the FAA for tests.
2. By the applicant for a type certificate or a supplemental type certificate for each engine or propeller submitted for type certification.
3. By the type certificate holder or licensee manufacturing products under a type certificate only, upon the initial transfer by him of the ownership of each product or upon application for the original issue of an aircraft airworthiness certificate, or an Airworthiness Approval Tag (FAA Form 8130-3).

This form should be completed as follows:

**Section I. Aircraft.** Complete the pertinent part of only this section when certification covers an aircraft or part thereof.

**Section II. Engine.** Complete this section when certification covers an engine.

**Section III. Propeller.** Complete this section when certification covers a propeller.

**Section IV. Certification.**

**Item A.** Check this block when an aircraft or part thereof is presented for flight or ground tests during type certification or supplemental type certification.

**Item B.** Check this block when the holder or licensee of a type certificate only, initially transfers the ownership of an aircraft manufactured under that type certificate, or applies for the original issuance of an airworthiness certificate.

**Item C.** Check this block when an engine or propeller is presented for type certification.

**Item D.** Check this block when an engine or propeller is presented for airworthiness approval and insert the date the product completed a final operational check.

The certification must be signed by an authorized person who holds a responsible position in the manufacturing organization.

Typed by #38

DEPARTMENT OF TRANSPORTATION FEDERAL AVIATION ADMINISTRATION		Form Approved Budget Bureau No. 04-R060.1	
<b>MAJOR REPAIR AND ALTERATION</b> (Airframe, Powerplant, Propeller, or Appliance)		FOR FAA USE ONLY OFFICE IDENTIFICATION <i>REG-20-19</i>	
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 <b>Mooney</b>	MODEL <b>M20P</b>	NATIONALITY AND REGISTRATION MARK <b>N7037V</b>
	SERIAL NO. <b>22-1384</b>		
2. OWNER	NAME (As shown on registration certificate) <b>Ball, James T. Jr.</b>		ADDRESS (As shown on registration certificate) <b>Rondville, Vermont 05340</b>
3. FOR FAA USE ONLY			
4. UNIT IDENTIFICATION			5. TYPE
UNIT	MAKE	MODEL	SERIAL NO.
AIRFRAME	***** (As described in item 1 above) *****		
POWERPLANT			
PROPELLER			
APPLIANCE	TYPE		
	MANUFACTURER		
6. CONFORMITY STATEMENT			
A. AGENCY'S NAME AND ADDRESS		B. KIND OF AGENCY	
<b>Harold Morrarty</b> <b>Harwood Drive</b> <b>Danbury, Conn. 06810</b>		<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. <b>1A734240</b>	
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 <b>3-30-77</b>		SIGNATURE OF AUTHORIZED INDIVIDUAL <i>Harold Morrarty</i>	
7. APPROVAL FOR RETURN TO SERVICE			
Pursuant to the authority given persons specified below, the unit identified in item 4 was inspected in the manner prescribed by the Administrator of the Federal Aviation Administration and is <input checked="" type="checkbox"/> APPROVED <input type="checkbox"/> REJECTED			
BY	FAA FLT. STANDARDS INSPECTOR	MANUFACTURER	INSPECTION AUTHORIZATION
	FAA DESIGNEE	REPAIR STATION	
		CANADIAN DEPARTMENT OF TRANSPORT INSPECTOR OF AIRCRAFT	OTHER (Specify)
DATE OF APPROVAL OR REJECTION <b>3-30-77</b>		CERTIFICATE OR DESIGNATION NO. <b>1A734240</b>	
		SIGNATURE OF AUTHORIZED INDIVIDUAL <i>H. Morrarty</i>	

# NOTICE

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

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

Installed the following equipment in N7037V:

- 1) King KK-170B Nav/Com with Antenna:
- 2) King KMA-20 Marker Beacon with Antenna:
- 3) King KR-86 ADF with Loop Antenna:
- 4) King KI-214 Omni Indicator:
- 5) Narco DME-190 with Antenna:

Equipment installed I/A/W manufacturers drawings.

Equipment list, log books, weight and balance changed to reflect the above.

Installations done I/A/W AC43-13-2, chapters 2 and 3.

Equipment tested per AC43-6, table 1 against A/C certified Altimeter.

Static system tested per FAR 91:170.

Total continuous cruise current drain does not exceed rated output.

-----END-----

☐ ADDITIONAL SHEETS ARE ATTACHED