(2)
US Department
of Transportation
Federal Aviation
Administration

MAJOR REPAIR AND ALTERATION

OMB No. 2120-0020 Exp: 5/31/2018	Electronic Tracking Number
·	or FAA Use Only

US Departm			_	_				-				FOI FAA USE ONLY
of Transport Federal Avi Administra	iation	(Air	frame,	Powerplant, I	Prop	pelle	er, or Appl	iance)				
instructio	CTIONS: Print ons and dispos lation. (49 U.S	ition o	f this for	m. This report is	14 Cl requi	FR §	43.9, Part 43 by law (49 U.	S.C. §44701)). Failt	ure to rep	-1 (or su port can re	bsequent revision thereof) for esult in a civil penalty for each
Nationality and Reg USA N7037V				tion Mark	Serial No.	22-	1384		-			
1. Aircraft	liviake	100	ON	EY				Model	120			Series
Name (As shown or REID BOB			•	istration certificate	=)	•		Address (As shown on registration certificate) Address 2064 N MAPLE				
2. Owner	KEID	DUE	Б				City MESA				State ARIZONA	
					-	3. F	or FAA Use		215-230	9	Cour	ntry UNITED STATES
	·						<u> </u>	<u> </u>				
						F 11		Alan				
Repair	Alteration		Unit		Ma	ake	Init identifica	ition		lodel		Serial No.
	_	AIDE		MOONEY	IVIO	anc .		(As desc			ahove)	22-1384
	AIRFRAME ————————————————————————————————————			N.T.								
	<u> </u>	POVV	ERPLA	AN I			· · · · · · · · · · · · · · · · · · ·					
		PROI	PELLER	Туре								
		APPL	LIANCE	Manufacturer								
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<u>-</u>	an Thelen	uuress	•			B. I	Kind of Agend U. S. Certific	y ated Mechanic	:		Mar	nufacturer
Address 3440 E	Southern ave 1117				_		Foreign Cert	ficated Mechai	nic			ficate No.
Zip 852	······································	untry U	Inited State		State AZ Certificated Repair Station Certificated Maintenance Organization			tion	3	703562AP		
have	been made in	accord	dance w	ation made to the ith the requirement to the best of my	its of	Part	ntified in item	5 above and	d desci	ibed on t	he revers	e or attachments hereto
Extended r per 14 CFF App. B			Si	gnature/Date of Au	uthoria	ized I	ndividual	>		J E	-/Z	-20
					7. Ap	prov	al for Return	to Service				
Pursuant Administ	t to the authorizator of the Fer	ority g deral A	iven pe	rsons specified b Administration and	elow is	, the		ed in item Approved	5 was	inspect Rejecte		e manner prescribed by the
	FAA Flt. Stand Inspector	lards	М	anufacturer		Ма	intenance Or	ganization			ns Approventment of T	ed by Canadian ransport
1 1	FAA Designee	, –	R	epair Station	X	Ins	pection Auth	orization	- 01	her (Spe	cify)	
Certificate of Designation	or n No. 27547	'48I <i>A</i>	Sig	gnature/Date of Au	thoriz	zed l	ndividual					
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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 natio		e work completed.)						
	United States N7037V	40//0/000						
	Nationality and Registration Mark	10/13/2020 Date						
Democrat KD 00 ADE	readonality and registration wark	Date						
Removed KR 86 ADF	C receiver							
Removed BFGoodrich flight systems Model F4 Loran-	·C receiver							
PRE INSTALLATION CONFORMITY CHECKS AND The aircraft records have been reviewed and the aircraft modifications or repairs that may not be compatible with all previous alteration	raft inspected for any pre ith this alteration. It has	been determined that						
INSTALLATION DETAILS: Installed Garmin STC SA01933LA-D. Referencing Ga October 2017 Rev. M. Installed unit PN: 011-010160-0		190-00356-02						
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 revelectrical bus does not exceed 80% of capacity.	ised continuous load of	the aircraft						
AFMS: The Aircraft Flight Manual was updated to include the								
, <u>-119</u>								
		•						
(6)	-*							
	•	•						
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Additional Sheets	Are Attached							

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US Department
of Transportation
Federal Aviation
Administration

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

	OMB No. 2120-0020 Exp: 5/31/2018	Electronic Tracking Number
ŀ		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)) Nationality and Registration Mark N7037V 1. Aircraft Make Series Mooney Name (As shown on registration certificate) Address (As shown on registration certificate) Address 2064 N Maple Bob & Janet Reid 2. Owner ΑZ 85215 Country USA 3. For FAA Use Only 5. Unit Identification 4. Type Repair Alteration Unit Make Model Serial No. 22-1384 Mooney (As described in Item 1 above) AIRFRAME POWERPLANT PROPELLER Туре APPLIANCE Manufacturer 6. Conformity Statement A. Agency's Name and Address B. Kind of Agency Harald Govers U. S. Certificated Mechanic Manufacturer Address 710 S Winthrop Foreign Certificated Mechanic C. Certificate No. State AZ City Certificated Repair Station Mesa 2794644 Zio 85204 Certificated Maintenance Organization 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. Signature/Date of Authorized Individual Extended range fuel per 14 CFR Part 43 App. B 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

| X | Approved | Rejected x Approved Rejected FAA Flt. Standards Persons Approved by Canadian Maintenance Organization Manufacturer Department of Transport Inspector BY Other (Specify) Inspection Authorization FAA Designee Repair Station Certificate or Signature/Date of Authorized Individual 7/14/2017 Designation No. 2794644

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 national sheets)	nality and registration mark and da N7037V	le work completed.) 7/14/2017
	Nationality and Registration Mark	 Date
Repaired fuselage cross member, part number 34011 dated 9/8/98, Change 1, paragraph 4-97, figure 4-38, steel tubing, 0.5 inch diameter, 0.049 inch wall thickness.	7-21 at fuselage station page 4-69. Fabricated r	epair piece from 4130
Welded tubes per paragraph 4-77(a) and (b) and para	graph 4-86(d).	
Inspected welds per paragraph 4-78 (a) through (g).		
The repair has made no significant change in weight a	and balance.	; -
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Additional Sheets	Are Attached	

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US Department
of Transportation
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of Ti	Department ransportatio eral Aviation ninistration	n on		AJOR REPAIR e, Powerplant							For FAA Use Only
ins	tructions	and dispos	or type all ition of this t C. §46301(a	form. This report is	14 CF requir	R §4 red b	13.9, Part 43 y law (49 U.S	Appendix B, ar S.C. §44701). Fa	nd AC 43.9 allure to rep	9-1 (or subs	sequent revision thereof) for ult in a civil penalty for each
	Nationality and Registration Mark N 7037 V							Serial No.	2-13	84	
1. Ai	Make MOONEY							Model Series			
Name (As shown on registration certificate) CHRIS LICENCE				te)		· · · · · · · · · · · · · · · · · · ·	City QUE	shown on re 825 S EN CRE 242	TIBE	RIUS DR State AZ	
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	4. Ty	20	T			5 1	Init Identific	ation			
R	epair	Alteration	Unit		Ма				Model		Serial No.
		X	AIRFRAME	<u> </u>	·			(As described in Item 1 above)			
			POWERPL	ANT							
			PROPELLE	≣R							
			APPLIANC	Type Manufacturer	:						
			<u> </u>		6	Co	nformity Sta	tement			
A. A	gency's h	Name and A	ddress			_	Kind of Agend			•	<u> </u>
Name			KRAME	R		X		ated Mechanic		Mani	ufacturer
Addres	s <u>323</u>		RICARD	OCIR			Foreign Cert	ificated Mechanic		C. Certific	cate No.
City	ME			State AZ		П		Repair Station		3114	4823
Zip D.	have be	that the rep	accordance	· · · · · · · · · · · · · · · · · · ·	ents of	Part	fentified in ite 43 of the U.S		described	on the reve	erse or attachments hereto
	nded ran	ge fuel		Signature/Date of				· · · · · · · · · · · · · · · · · · ·			
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				persons specified n Administration an	below				was inspec		manner prescribed by the
	. I .	A Fit. Stand	lards	Manufacturer		Ma	intenance Oi		Pers		d by Canadian ansport
BY		A Designee	,	Repair Station	X	Ins	spection Auth	orization	Other (Sp	ecify)	
	ficate or gnation N	lo.		Signature/Date of A	Authori	zed I	ndividual		1		

FAA Form 337 (10-08)

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.

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MR5#02-14/010



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

Form Approved OMB No. 2120-0020

For FAA Use Only

Office Identification

WP-F5DO-5

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).

for each suc	on of this form. This rep n violation (Section 901	Federal Aviati	on Act o	of 1958).	mure to rep	on can result in a c	ıvıı penan	iy not to exce	,cu
	Make Moonle	,			Model	MZOF			
1. Aircraft	Serial No.	-/138	4	4.41	Nationalit	y and Registration	Mark 703	7 V	
*ar	Name (As shown on re			(As shown on regis			7, ,
2. Owner	BRIAN I		EK	MAN	130	so e atain H		LAG0 A7 8	BLVD. 35268
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				4. Unit Identificat	ion			5. Type	
Unit	Make			Model		Serial No.		Repair	Alteration
AIRFRAME	•••••	••••••••(A	ls descr	ibed in Item 1 abo	ve)	••••••			X
POWERPLANT					·				
PROPELLER									
	Туре								
APPLIANCE	Manufacturer								
			6.	Conformity State	ment				-1
A. Agency's N	lame and Address	. 1 . 2		B. Kind of Agenc	-		C. Certi	ficate No.	
FRED	ERICK W. EAST RAW ORT, ARIZ	1406	}	U.S. Certificate Foreign Certifi			i /	0	~ 1
1010	EAST RAIL	HIDE	_	Certificated Re			10	668	O
GILB	ORT, ARIZ	ONA 85	296	Manufacturer					
D. I certify the base been	hat the repair and/or alte on made in accordance v d herein is true and corr	eration made to with the requir	o the uni ements	of Part 43 of the U	em 4 above .S. Federal	and described on th Aviation Regulation	ne reverse ons and th	or attachmenat the inform	ents hereto nation
Raise				Signature of Auth	orized Indi	ividual .		. (
ton	re 25,	Y007		Tre	e Le	rich	W.	de	74
				proval for Return 1				. ' \	
Pursuant to Administrat	the authority given pe or of the Federal Aviation	rsons specifie in Administrati	d below on and	, the unit identific is APPROVI	ed in item ED 🗆 R	EJECTED	the mar	ner prescrit	ped by the
	A Fit. Standards Ma	nufacturer	X	Inspection Authori	zation	Other (Specify)			7
1 1	A Designee Rep	pair Station		Person Approved b Canada Aigworthin	ess Group				<u>.</u>
Date of Appro	val or Rejection Ce De	rtificate or signation No.	,0	Signature of Auth	orized Indi	vidual	/	2	
407	>- 0 /	6668	10X	Mu	les	ul 1	<u>//,</u>	Her	9

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.

Description of Work Accomplished
(If more space is required, attach additional sheets. Identify with aircraft nationality and registration mark and date work completed.) HOONEY HLOF N7037V 5/N 22-1384 06-25-02
KONOVED DEM ALERT SO ELT. SN 5092.
INSTALLED NEW T.S.O CRIA AMERI-KING
AK450, 3/N 461949 E.L.T. IN BPACE
VACATED BY ALERT SO. ALL WORK
ACROMPLISHED 1/A/W MANUFACTURES
INSTALLATION INSTRUCTIONS AND STAND-
ARD AIRCRAFT PRACTICES. WT. AND BAC.
AND EQUIPMENT hIST REVISED TO
REFLECT CHANGES MADE.
END —

US Department	MAJOR REP	AIR AI	ND ALTERATION	ON	and in the same of	OMB No	roved . 2120-0020		
of Transportation Federal Aviation Administration	(Airframe, Powerpl	lant, P	ropeller, or Ap	pliance		Affice fee	or FAA Use	Only SDQ	
I wild yisposi	IONS: Print or type all entries. See FA tion of this form. This report is require th violation (Section 901 Federal Avia	ed by law	V (49 U.S.G. 1421). Fa	and AC 43 ailure to re	i.9-1 (or súbsequi eport can result in	ent revisión n a civil pen	thereof) for i	nstructions ceed \$1,000	
1. Aircraft	Make MOONEY			Model	mro#		7 /	•	
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2. Owner	Name (As shown on registration co) - 한 연화물 -	111	(As shown on re	REEN	office section		
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								F .	
			4. Unit Identification	on			5. Type		
Unit	Make		Model		Serial N	No.	Repair	Alteration	
AIRFRAME	•••••••••••••••••••••••••••••••••••••••	'As desc	cribed in Item 1 abov	/e)	••••••••••••	•		X	
POWERPLANT	LYCom, NG	10.	-360 - AIA		L-15348-	-51A		×	
PROPELLER			in the second se						
APPLIANCE	Type Manufacturer								
			<u> </u>				•		
A. Aggrey's N	ame and Address	6.	. Conformity Statem		·		<u> </u>		
			B. Kind of Agency X U.S. Certificated			C. Certi	ficate No.		
NEI	L L. GOBANZ		Foreign Certifica				mon		
3013	1 L. GOBANZ 95 ST NOLINE, IL LIZYY	Ī	Certificated Rep			140	29959		
			Manufacturer			1.			
furnished	nat the repair and/or alteration made to n made in accordance with the requir- herein is true and correct to the best	ements	OF Part 43 of the U.S.	14 above a 5. Federal	and described on Aviation Regulat	the reverse tions and th	or attachmer at the inform	nts hereto ration	
Date Ç'	Jun 94		Signature of Autho	rized Indi	yidual				
			proval for Return To		$\overline{}$				
Pursuant to t	the authority given persons specified of the Federal Aviation Administration	d below on and i	r, the unit identified is X APPROVED	in item 4 D □ R	was inspected EJECTED	in the man	ner prescribe	ed by the	
BY FAA	Flt. Standards Manufacturer	X	Inspection Authoriza	tion	Other (Specify).			
	Designee Repair Station		Person Approved by Canada Airworthines	Transport s Group					
Date of Approva	Designation No.		Signature of Author	ized Indiv	idual				

FAA Form 337 (12.8 -)

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.

(If more space is required, attach additional sheets. Identify with aircraft nationality and registration mark and date work completed.) INSTALLED PRECISE FLIGHT INC MODEL SUSTI STAND BY VACUUM SYSTEM IAW STC SE 1779NM AND SA 2168NM PER INSTALLATION MANUAL REV #24 DTD 01-03-92 NEGLIEBGE WT CGE, ALL WORK 1AW AC 43,13,1 AND AC43,13,2 END-☐ Additional Sheets Are Attached

NU.S. GOVERNMENT PRINTING OFFICE: 1992-769-012/60157

6		MAJOR REP	AIR A	AND ALTERATI	ON		OMB No. 2120-0020					
of Transportate	А). ^{Бере} й	irframe, Powerp	lant.	Propeller, or An	pliance)			or FAA Use	Only			
Federal Aviati Administratio	1		Y ""			. A.	GL-	ntification	Dre			
		rtype all entries. See Fi m. This report is requir Section 901 Federal Av			and AC 43.9-1 (callure to report	or subseque can result ir	ent revision a civil pen	thereof) for it alty not to exc	nstructions seed \$1,000			
1. Aircraft	Make Mod	oney			Model M20F			7				
	Serial No. 22-	-1384	na k y t oj	្នា អត្ថិក្រុក ខ្លួម ក្រុមស្រាក្ស ស្វាវា	Nationality ar							
2. Owner	Bri	hown on registration of an L Briggerman In M Briggerman	ansta 1 €	್ ತಹ ಶಾಲ್ಕ 🥫	Address (As s	hown on re	gistration een	certificate)				
	-	F 21 91 75		3. For FAA Use Or	nlv	- 		1 # 1				
	actor	AIRWORTHINE DESCRIBED AI PERSON AUTH	SS REQUI IRCRAFT, ORIZED B	HEREIN COMPLIES WITH THE REMENTS AND IS APPROVED SUBJECT TO CONFORMITY IN Y FAR PART 43, SECTION 43. MAR 0 3 1993	FOR THE ABOVE SPECTION BY A J.	Coly						
	1	District 0	ffice	4. pupit Ideguireaty	PIFAA Inspector			5. Туре				
Unit		Make		Model		Serial N	lo.	Repair	Alteration			
AIRFRAME	1	ಆರಗ: ಗೂತಕಾತ ನ	(As de	scribed in Item 1 abov	(e)	•••••	e n		х			
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APPLIANCE	Manufacture] :		-							
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A. Agency's N	ame and Addin	essident offer		B. Kind of Agency	lent		0 0-4	Carabalka	·			
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Blooming	ton/Norma ton IL	l Airport 61704	1 5.1 C	Foreign Certifica X Certificated Report Manufacturer	air Station		7]	R035N				
D. I certify the have been furnished	at the repair ar made in acco herein is true	nd/or alteration made to ordance with the require and correct to the bes	o the u	nit(s) identified in item s of Part 43 of the U.S	4 above and de Federal Aviati	scribed on on Regulati	the reverse ions and th	or attachmen at the inform	its hereto ation			
Date		- 1,-, 1, det 10 1110 003	4,01,111y	Signature of Author	ized Individual		•		1			
February	26, 1993	<u>takir bir</u>	•	Gregory K Va		X)		U []-(
	. f. d	នេះ នេះសំខាន់ ទីកីមិក	- 7. Ar	proval for Return To	Service		ocy .	<u>Curr</u>	2			
Pursuant to t	he authority of of the Federa	given persons specifie I Aviation Administrat	d belo	w, the unit identified is APPROVED	in item 4 was	inspected i	n the man	ner prescribe	d by the			
FAA Inspe	Fit. Standards ctor	Manufacturer		Inspection Authorizat	ion	er (Specify;	(d. 1964) Gallandar					
FAA	Designee	X Repair Station		Person Approved by Canada Airworthiness	Fransport Group			*	F *			
March 5,	1993	Certificate or Designation No. MB5R035N		Signature of Authori	zed Individual	100	n gelik	16-1				
AA Form 337 /	2-88)		2		MAR 0 s	1993	may 1	MAR (2 1993			

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

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

B F Goodnich Aenospace/Foster F=4/(F=14)

- 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.
- 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. Interconnect Wiring Diagram, page 2-8, Rev 04.
- 3. Parts, hardware, and connectors supplied by installation kit from manufactures and actions to the supplied to the supplied

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 a recraft 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 "Locan-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.GPO:1990-0-568-012/40004

Federal Aviati Administration	Office Iden Administration INSTRUCTIONS: Print or type all entries See EAR 43.0 EAR 40.0 EAR 40.0 EAR									Only
INSTRUCT and dispos for each su	IONS: Print o ition of this fo ich violation (or typ orm. T (Sect	pe all entries. See FA This report is requir tion 901 Federal Avi	AR 43.9 red by li viation	9, FAR 43 Appendix B, a law (49 U.S.C. 1421). Fa Act of 1958).	and AC 43.9-1 ailure to repo	f (or subsequent) rt can result in a c	revision civil pena	thereof) for i	instructions ceed \$1,000
	Make	one				Model				
1. Aircraft	Serial No. 22-	!-138	184				0F and Registration 7037V	Mark		
2. Owner	Name (As shown on registration certificate) Brian L Briggerman Jean M Briggerman Address (As shown on registration certificate) 1113 Evergreen Chillicothe IL 61523									
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Signature of Authorized Individual

Gregory K. Vail.

March 5, 1993 FAA Form 337 (12-88)

Date of Approval or Rejection

Certificate or Designation No. MB5R035N

MAR 0 9 1993

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.

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 SE-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 were used as reference. Performed electrical load 429., 430 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. the best of my knowledge.
- subject to expect such to exposit 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 A comments

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US Department
of transportation
Federal Aviation

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

Form Approved
OMB No. 2120-0020
For FAA Use Only
Office Identification
GL-FSDO-19

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FAA Form 337 (12-88)

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MAJOR REPAIR AND ALTERATION

Form Approved OMB No. 2120-0020

For FAA Use Only

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FAA Form 337 (12-88)

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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 altworthiness requirements.

Description of Work Accomplished

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(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 mircraft 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 009406314, (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 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.

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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.

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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.)

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FAA AC 72-4908

#U.S. GOVERNMENT PRINTING OF FICE: 1986-659-121/40260

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DATE OF APPROVAL OR REJECTION 9/27/92

FAA Form 337 (7-67)

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.) 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

ADDITIONAL SHEETS ARE ATTACHED

QU.S. GOVERNMENT PRINTING OF FICE: 1986-659-121/40260

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FAA Form 337 (12-86

NOTICE V

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

B. Description of Work Accomplished

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

INSTALLED 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 negligable.

ALTIMETER

-UNITED INSTRUMENT

Tested 10/10/91 and complies with appendix E requirments. (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.

☐ Additional Sheets Are Attached

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Form Approved Budget Bureau No. 04-R0058

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UNITED STATES OF AMERICA
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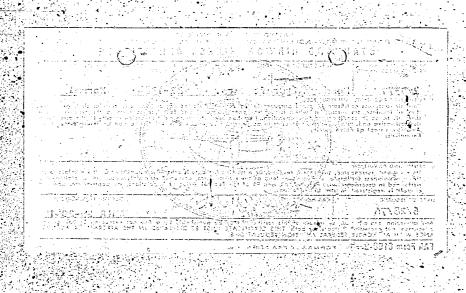
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is in a condition for safe operation, and was flight checked on	D/ZO//D. in the training of the second of th
C. The engine or propeller described above, presented herewith for	gradinanti di diki Asalin da di di di di
D. The engine or propeller described above produced under type cert	tificate only (FAR 21 Subpart F), conforms to its type
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Mooney Aircraft Corporation	6/28/76

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मद्दार कर ते १८०० विश्व च्या प्रशासक स्थापत स्वार कर ते १८०० विश्व च्या प्रशासक स्थापत VTIME INSTRUCTIONS IN TAXE 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 VOROCK aircraft of 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 alreaft sirworthiness certificate, or an Airworthiness Approval Tag (FAA Form 8130-3). This form should be completed as follows: Section I. Affectoff. Complete the pertinent part of only this section when certification covers an aircraft of Section to a craft carries Section II. Engine. Complete this section when certification covers an engine. Section III. Propeller. Complete this section when certification covers a propeller, solves have been propelled. the time of the compact above a models of control of control of the PAR LET TO Item A. Check this block when an sircraft or part thereof is presented for flight or ground tests during type in the 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. Shoil

> Maconey Aircraft Corporation אנג Form בינוס (1002) אנג ב-177 בינוס אודאואק אודאואק אודאואק ב-1773 ב-1.0 של

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AA Form 3	37 (7-47) *			-				4	. ,	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.

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Installed the following equipment 4n N7037V:	and the second s
1) King EX-170B Nav/Com with Antenna: 2) King ENA-20 Marker Beacon with Antenna:	
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5) Narco DME-190 with Antenna: do and discongress many approximation of the control of the contr	elakelaren jilan 1920 (1921)
Equipment installed I/A/W manufacturers drawings.	
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Equipment tested per AC43-6. table 1 against A/C ce	ertified Altimeter.
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