US Department
of Transportation
Federal Aviation
Administration

MAJOR REPAIR AND ALTERATION

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

US Departmen of Transportat Federal Aviat Administration	tion tion	(Airfra	me, P	owerplant,	Prop	elle	er, or Appl	iance)				FOFFAA US	oo Omy
instruction		sition of th	is form.					S.C. §447	701). Fa	ailure to rep			revision thereof) for civil penalty for each
1. Aircraft	N953M	ty and Rec	gistratio	n Mark					No. 33	72			
Mooney								Model M20C Series					
2. Owner	1 '	s shown o nax US	•	tration certificate C	Θ)	-	Address (As shown on registration certificate) Address 1815 Airport Loop City Kerrville Zip 78028-9696 Country USA						
						3. F	For FAA Use	_ 1					
4. Ty	/pe					5. l	Unit Identifica	ation					······································
Repair	Alteration	Uı	nit		Ма	ıke	Mode			Model			Serial No.
X		AIRFRA	ME	Mooney		_		(As a	(As described in Item 1 above)			3372	
		POWER	RPLANT										
		PROPE	LLER										
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Zip 78028	3 Co	ountry USA					Certificated N	Vaintena nd	ce Organ	ization		<u> </u>	4926
have b	been made in	n accordar	nce with correct to	on made to the the requirement to the best of m	nts of I y knov	Part wled	t 43 of the U.S Ige.						
Extended ra per 14 CFR App. B			-	ature/Date of Ai				æ	all	03.	her	n	
							val for Return	to Servi	ce				
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l Ir	AA Flt. Stand	sbrat	Man	ufacturer		Ma	aintenance Or	ganizatio	n	Depar	ntment of	ved by Cana Transport	dian
BY	AA Designee	•	Rep	air Station	X	In:	spection Auth	orization		Other (Spe	cify)		
Certificate or Designation		126	Signa	ature/Date of Ai AVid Be	uthoriz	zed	Individual 5	aus	930	hrem			

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 national sheets.)	onality and registration mark and dat	e work completed.)
	N953MA	September 06, 2019
	Nationality and Registration Mark	Date
I. Installed new right hand wing skin P/N 220000-144 done per Mooney Service & Maintenance Manual for Par 4-57. No weight change.	at wing STA 147.75 and	103.50. All work
	ND	
Additional Sheets	Are Attached	



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

	OMB No. 2120 0020	Electronic Tracking Number 2016000760
	F	or FAA Use Only
1		

Electronically Submitted 337

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))

such violat	ion. (49 Ú.S.	C. §46301	(a))	-	-	-			•			
	Nationality	y and Regi	stratio					Serial No.				
1. Aircraft				N 953MA					372		_	
I. All Clait	Make							Model			Series	
		MOONEY	•					M20C			NA	
	II		regist	ration certificate))			Address (As	shown on re	gistration ce	ertificate)	
2. Owner	SURGICAF	RE LLC						Address 908 YU	CCA ST			
Z. Owner								City T OR C			State NM	
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						3. F	or FAA Use	Only				
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Inspector								Designee		Nun	nber	
Signature								Signature				
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Repair	Alteration	Uni	ı		IVIAN	.e			Model		Serial No.	
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Name Jonatha	n Reiners					XĮ.		ated Mechanic		Manufa		
	nerciantes Blvd. 11	9			_			ficated Mechanic		C. Certifica	ate No.	
City Santa T				_ State NM	— ŀ			Repair Station	. ,.	2009566		
Zip <u>88008</u>		untry <u>UNITED</u>						Maintenance Orga				
D I certify	that the rep	air and/or a	alterati	on made to the ι	unit(s)	ide	ntified in item	5 above and d	escribed on	the reverse	or attachments hereto	
				the requirement o the best of my				. Federal Aviatio	on Regulatio	ns and that t	tne information	
				ature/Date of Aut								
Extended rai			-					ÿ Di	gitally signed by Jona	than Reiners		
App. B) JC	nathan R	ein	ers	S		N: c=US, o=FAA, cn=Jo ite: 2016.11.30 06:11:		il=jonreiners@gmail.com	
				7	Δnn	rova	al for Return	to Service				
Pursuant 1	to the author	rity given	perso						was inspec	ted in the	manner prescribed by the	
Administra	tor of the Fed	deral Aviati	on Adr	ministration and i	is			Approved	Rejecte		marmer presented by the	
F	AA Flt. Stand	lards	Man	ufacturer		Mai	intenance Or	ganization		ons Approved		
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	AA Designee		Repa	air Station	X	Ins	pection Auth	orization	Other (Spe	cify)		
Certificate or			Signa	ature/Date of Aut	:horiz	ed Ir	ndividual		1			
Designation I	No.		~	_					gitally signed by Jo			
2009566			טר	nathan	nel	1116	=12		l: c=US, o=FAA, cn te: 2016.11.30 06:		s, email=jonreiners@gmail.com	
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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 nation	nality and registration mark and date	work completed.)
	N 953MA	11/30/2016
	Nationality and Registration Mark	Date
T.T4609.9 install STC SA4402NM Lasar one piece Windshield , Installation o Lake Aero Styling and Repair Drawing List Report No. 120 ************************************	f single piece windshield in acco	ordance with FAA sealed
Additional Sheets	s Are Attached	

FAA Form 337 (10-06)

Electronic Form (PDF)





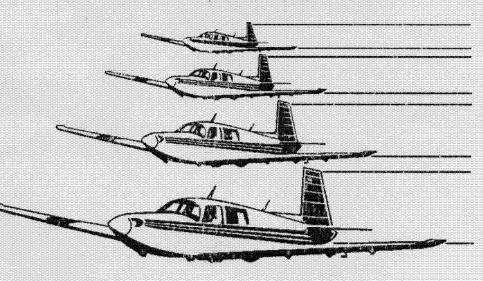
LASAR SPEED MODIFICATIONS

FAA APPROVED STC SA4402NM

Issued to Lake Aero Styling and Repair

LASAR ONE PIECE WINDSHIELD

LASAR DRAWING LIST REPORT 120



For MOONEY Airplanes including Models: M20,M20A, M20B, M20C, M20D, & M20E

Number of Pages: 1- 14 & ICA 1-3 Initial Issue: November 23, 1981 Revised: February 23, 2010

Manufactured by
LAKE AERO STYLING AND REPAIR
900 F Sky Park Drive Lakeport, California 95453

ONE PIECE WINDSHIELD

Lake Aero Styling & Repair Revision A
Sheet i of ii

FEBRUARY 23, 2010

Supplemental Type Certificate Bederative of Econoportucion Federal Robotion Sidm thinks is spiced brings.

resolutions, assured to Lake Acro Stylling and Ropair MUSORAR TOURNE

effective Nov. 1, 1949, as amended to May 18, 1954. The CHAIN and the & deally administration asserted when the distribution described and with refer the add and and opened

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(08-07) \$-0716 mot Act

AIRPLANE DESCRIBED AS FOLLOWS: OF THIS MODIFICATION IS GIVEN ONLY FOR USE ON THE SPECIFIC LASAR NOTE: KIT # 120 - AUTHORIZATION FOR THE APPLICATION

Special Moles: SURGICARE LLC A noisivag INSTALLED ON: 1966 M20C MOONEY N 953MA SIRE N/S

Repair Lake Aero Styling & Sheet 14 of 14

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Lake Aero Styling &

ONE DIECE

Federal Aviation

Administration

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

Form Approved OMB No. 2120-0020

For FAA Use Only

Office Identification

-500 EA-25-TEB

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

		Make					Model					
, ,	·	Mooney					M20	С				
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	neeler						Foreign Certificated Me	chanic				
Warwi	ick, N	Y 10990			L		Certificated Repair Stati	ion				
					Г		Manufacturer					
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ha	ave beer	n made in accorda	nce with the requirem	ents of	Part	43	of the U.S. Federal Avi	ation R	egulations and the	at the infor	mation	
fu	mished	herein is true and	correct to the best of	my kno	wied	ge.	•					
Date					5	Sign	ature of Authorized Inc	fividual				
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				7. /	Appr	SVO	I for Return To Servi	ce				
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BY	FAA	Designee	Repair Station				son Approved by Trans lada Airworthiness Gro					
		al or Rejection	Certificate or Designation No.		1	•	nature of Authorized In			20 -		
June	21, 2	2005	1466324				Flelun	رمو	Cres	18	1/2	

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 M20C sn: 3372 N953MA Tach:4390.60 TTAF:4390.60 June 21, 2005

- 1) Installed Whelen HR, CFA self contained Strobe Light Assembly Model HR, CFA and Remote Strobe Light Head Model A470 A R/W using a H 102 Mounting Adapter and Remote Strobe Power Supply Model A490A, TS, CF.
- 2) This Installation is approved under STC SA615EA and STC SA800EA.
- 3) STC SA800EA was issued November 14,1968 amended September 08,1999 to Whelen Engineering Co.
- 4) STC SA615EA was issued May 14,1968 amended June 18,1999 to Whelen Engineering Co.
- 5) Installation IAW Whelen Engineering Installation and Service Manual dated September 16, 1999 and AC 43.13-1B, Section 1,2,3,&7.
- 6) HR, CFA self contained Strobe Light Assembly Model HR, CFA System was installed in existing belly rotating beacon attach point and wired utilizing existing wiring, switch and circuit breaker. Wiring size conforms to Electrical Wire size Chart in AC 43.13-1B Chapter 11 section 5, figure 11.7 and 11.7A.
- 7) A470A,R/W Strobe Light Assembly System was installed at F.S. 126.0 and Power Supply Installed at F.S. 134.0 and wired utilizing Whelen Install Kit Wiring HS-5, utilizing existing switch and circuit breaker. Wiring size conforms to Electrical Wire size Chart in AC 43.13-1B Chapter 11 section 5, figure 11.7 and 11.7A and AC 43.13-2 Chapter 4, Paragraph 52(a).
- 8) EMI check performed in accordance with AC 25-10 paragraphs 5(f) and 5(n). AC 43.13-1B Chapter 11 section 8 paragraphs 11-106 and 11-107, and AC 43.13.2A Chapter 4, paragraph 52 through 54, Interference Test.
- 9) Weight and Balance and Equipment List Revised.
- 10) Log Book Entry Reflects this installation.
- 11) Instructions for Continued Airworthiness will be found in the installed manufacturer's maintenance manual and incorporated into the current aircraft inspection program, Oyherwise the Scope and Details of FAR 43, Appendix D will apply.

United States Of America

Department of Transportation - Federal Abiation Administration

Supplemental Type Certificate

Number SAGISEA

This Cortificate issued to

Whelen Engineering Company, Inc. Route 145, Winthrop Road Chester, Connecticut 06412-0684

certifies that the change in the type design for the following product with the limita therefor as specified hereon meets the airporthiness requirements of Part 3, 6, 23, 27 of the Civil Air/Federal Aviation *Propulations*.

Original Product Type Cortificate Number: See Attached Eligibility List dated June 18, 1999

Make :

Description of Type Design Change:

Installation of Whelen Anti-Collision Strobe Light System, Models HD, HR, HR-CF-A, or HS (-14(14V) or -28(28(V)), as replacement for originally installed anti-collision lights, when installed in accordance with Whelen Installation and Service Manual dated January 1, 1985, or later FAA-approved revisions.

Limitations and Conditions:

- These lights comply with the anti-collision light standards of the FARs as follows:
 - With the red or combined red/white lens; those effective on or prior to August 10, 1971.
 - With the white lens; those effective on August 11, 1971.

(See continuation sheet 2 of 6)

The STC holder will provide each person it permits to use this certificate to alter the product written evidence of the agreement in a form acceptable to the Administrator.

rificate and the supporting data which is the basis for approval shall remain in effect w red, suspended, revoked or a termination date is otherwise established by the Administrator of the

Date of application : February 19, 1968

Delo of issuance . May 14, 1968

Federal Aviation A

Tale agreeded : June 18, 1999

See page 2 for amendment history.



of the Administr

Boston Aircraft Certification Office

(Title)

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

FAA Form \$110-2(10-68) Page 1 of 6 This certificate may be transferred in accordance with FAR 21.47.

CONTINUED PAGE 2.

Limitations and Conditions (Cont'd):

- 2. Install the following placard Whelen Part No. A421, or other FAA approved equivalent: WARNING TO AVOID OPTICAL ILLUSION AND SEVERE VERTIGO, TURN ANTI-COLLISION LIGHTS OFF UPON ENTERING CLOUDS, FOG OR HAZE."
- 3. Minimum required operating voltage is 13.2 volts for 14 volt systems Minimum required operating voltage is 26.4 volts for 28 volt systems.
- 4. The aircraft listed on the eligibility list are those which have had both the physical installation of the lights substantiated and the field of coverage checked including the 20" mask. Aircraft not included in the list can use these lights when the physical installation and field of coverage is substantiated as indicated in; Whelen's Installation and Service Manual for Whelen Aviation Anti-Collision Strobe Light Systems dated November 7, 1972, in the portion entitled "Aircraft Not Specifically Mentioned on the Eligibility List".
- 5. HD or HD, power ;supplies may be used in; place of an HS or HD power supply respectively in order to also provide power for other Whelen strobe lights installed in accordance with STC SA800EA. The preceding is a statement of compatibility of power supplies only. Refer to STC SA800EA for installation of the other Whelen Strobe Lights acceptable in combination with this STC.
- 6. The approval of this change in type design applies basically to aircraft listed on the attached eligibility list. This approval should not be extended to other aircraft of these models on which other previously approved modifications are incorporated unless it is redetermined by the installer that the interrelationship between this change and any of those other previously approved modifications will introduce no adverse effect upon the airworthiness of the aircraft. This determination should include a night flight check as specified in AC 43.13-2, Chapter 4, Paragraph 42a.

NOTE: Aircraft whose application for type certificate was made before April 1. 1957, may, but need not, comply with the field of coverage requirements of FAR 23 (27).1401(b). Compliance with Far 91.33(c) may not be shown provided the light installation is in accordance with data approved prior to August 11, 1971, and applicable criteria of Advisory Circular 43.13-2 are met.

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Anited States Of America

Bepartment of Transportation - Nederal Abiation Administration

Supplemental Type Certificate

Number SABOOEA

This Contilinate issued to

Wheten Engineering Comp Route 145, Winthrop Road

certifies that the change in the type design for the following product with the limitations a therefor as specified hereon meets the airmorthiness requirements of Fart 3, 6, 23, 27 of the Civil Air/Federal Aviation Propulations.

Original Product Type Carlificate Number . See Attached Eligibility List dated September 8, 1999

Doscription of Type Dosign Change

Installation of Aviation White Anti-Collision Strobe Lights Whelen Models A429, A430, A434, A450, A470-R/W (Red/White), A470-R/W (Red/White), A500, A625, or A650 and associated power supplies or Model SA Strobe Light System in accordance with Whelen Installation and Service Manual dated January 1, 1985, or later FAA-approved revisions.

- The Aviation White Anti-Collision Lights listed under Description of Type Design Change meet the requirements of FAR 23
 and the similarly numbered sections of FAR 27 as follows:

 - 23.1397(c), 23.1401(c), (d), (e), effective August 11, 1971; 23.1401(f) in effect on August 10, 1971 (See STC Continuation Sheet)

(See continuation sheet 2 of 8)

The STC holder will provide each person it permits to use this certificate to after the product written evidence of the agreement in a form acceptable to the Administrator

This certificate and the supporting data which is the basis for approve dered, suspended, recoked or a termination date is otherwise established by the Administrator of the

Date of application . May 2, 1969

Dalo of issuence . November 14, 1969

Dato amended . September 8, 1999

See page 3 for amendment history.

By direction of the Administra

(Title)

Any alteration of this certificate is punishable by a fine of not exceeding \$1,000, or imprisons

This certificate may be transferred in accordance with FAR 21.47.

CONTINUED PAGE 2 AND 3.

- c. A408W and 470W with power supplies approved under STC SA615EA meet FAR 23.1401 (f) effective August 11, 1971.
- d. A650 or A625 with power supplies producing a minimum of 20 joules per flash eets FAR 23.1401 (f) effective August 11, 1971.
- To complete the approval of those lights as anti-collision light systems, the installation on individual aircraft must be checked to show compliance with FAR 23.1401(b) (Field of Coverage); unless the "Installation and Service Manual for Whelen Anti-Collision Strobe Light Systems", dated 28 September 1978 specifically indicates that a particular installation has been checked for compliance with the aforementioned sub-section (Example: Bell 206A with lights installed at he specified locations).

NOTE: The aforementioned installation and Service Manual contains an acceptable method for checking the adequacy of coverage when using two lights (wing-tip) or three lights (wing tips and tail lights). For some other acceptable methods see Advisory Circular AC 43.13-2 Chapter 4 Paragraph 46b(2). Installation made in accordance with STC SA800EA Amendments prior to 9/14/71 need only be checked for obstructed visibility to meet anti-collision light requirements.

Install the following placard, Whelen Part No. A421-1, or other FAA approved equivalent, in view of the pilot:

"WARNING TURN OFF STROBE LIGHTS WHEN TAXING IN VICINITY OF OTHER AIRCRAFT OR DURING FLIGHT THROUGH CLOUDS, FOG OR HAZE. STANDARD POSITION LIGHTS TO BE ON FOR ALL NIGHT OPERATIONS."

- 4. On all helicopter installations, install the following placard in view of the pilot: "THE WHITE STROBE LIGHT MUST BE TURNED OFF DURING ALL NIGHT TAKEOFFS AND LANDINGS."
- 5. The modification approved by this STC can be installed in conjunction with those approved by STC SA615EA or STC SA738EA as delineated in the "Installation and Service Manual for Whelen Anti-collision Strobe Light System's*
- On Mitsubishi MU-2B, MU-2B-10, -20, -15, -30 aircraft: Whelen's "Mitsubishi MU-2B, -10, -20, -15, -30 Wing Tip and Tail Strobe Light Installation Procedure", dated 19 February 1971, is required in addition to the "Installation and Service Manual for Whelen Anti-Collision Strobe light System".
- This approval should not be incorporated in any aircraft of these specific models on which other approved modifications are incorporated, unless it is determined that the interrelationship between this change and any of those previously incorporated approved modifications will not introduce any adverse effect upon the airworthiness of the aircraft. This determination should include a night flight check as specified in AC 43.13-2 Chapter 4. Paragraph 42A.

NOTE: Aircraft whose application for type certification was made before April 1, 1957, may, but need not, comply with the field of coverage requirements of FAR 23(27).1401(b). Compliance with FAR 91.33(c) may be shown provided the light installation is in accordance with data approved prior to August 11, 1971, and applicable criteria of Advisory Circular 43.13-2 are met.

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Mniteb States Of America

Department of Transportation - Nederal Abiation Administration

Supplemental Type Certificate

Number SABOOEA

Whelen Engineering Company, Inc. Route 145, Winthrop Ros Chester, Connecticut 06412-0684

certifies that the change in the type design for the following product with the limitations an therefor as specified hereon n Aviation Propulations. cls the airmonthiness repairments of Part 3, 6, 23, 27 of the Civil Air/Federal

Gripinal Product Type Cortificate Number: See Attached Eligibility List dated September 8, 1999

Description of Type Design Change:

Installation of Aviation White Anti-Collision Strobe Lights Whelen Models A429, A430, A434, A450, A470-R/W (Red/White), A500, A625, or A650 and associated power supplies or Model SA Strobe Light System in accordance with Whelen Installation and Service Manual dated January 1, 1985, or later FAA-approved revisions.

- 1. The Aviation White Anti-Collision Lights listed under Description of Type Design Change meet the requirements of FAR 23 and the similarly numbered sections of FAR 27 as follow
 - 23.1397(c), 23.1401(c), (d), (e), effective August 11, 1971;
 - 23.1401(f) in effect on August 10, 1971 (See STC Continuation Sheet)

(See continuation sheet 2 of 8)

The STC holder will provide each person it permits to use this certificate to alter the product written evidence of the agreement in a form acceptable to the Administrator

This cortificate and the supporting data which is the basis for agerc dered, suspended, revoked or a termination date is otherwise established by the Administrator of the

Date of application : May 2, 1969

Dale of issurace . November 14. 1969

Dato amended . September 8, 1999

See page 3 for amendment history.

By direction of the Administra

n Aircraft Certification Office

TAKEOFFS AND LANDINGS."

(Title)

any situration of this certificate is punishable by a fine of not ex-

CONTINUED PAGE 2 AND 3.

- c. A408W and 470W with power supplies approved under STC SA615EA meet FAR 23.1401 (f) effective August 11, 1971.
- A650 or A625 with power supplies producing a minimum of 20 joules per flash meets FAR 23.1401 (f) effective August 11, 1971.
- 2. To complete the approval of those lights as anti-collision light systems, the installation on individual aircraft must be checked to show compliance with FAR 23.1401(b) (Field of Coverage); unless the "Installation and Service Manual for Whelen Anti-Collision Strobe Light Systems*, dated 28 September 1978 specifically indicates that a particular installation has been checked for compliance with the aforementioned sub-section (Example: Bell 206A with lights installed at he specified locations).

NOTE: The aforementioned installation and Service Manual contains an acceptable method for checking the adequacy of coverage when using two lights (wing-tip) or three lights (wing tips and tail lights). For some other acceptable methods see Advisory Circular AC 43.13-2 Chapter 4 Paragraph 46b(2). Installation made in accordance with STC SA800EA Amendments prior to 9/14/71 need only be checked for obstructed visibility to meet anti-collision light requirements.

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*WARNING TURN OFF STROBE LIGHTS WHEN TAXING IN VICINITY OF OTHER AIRCRAFT OR DURING FLIGHT THROUGH CLOUDS, FOG OR HAZE. STANDARD POSITION LIGHTS TO BE ON FOR ALL NIGHT OPERATIONS."

- 4. On all helicopter installations, install the following placard in view of the pilot: "THE WHITE STROBE LIGHT MUST BE TURNED OFF DURING ALL NIGHT
- 5. The modification approved by this STC can be installed in conjunction with those approved by STC SA615EA or STC SA738EA as delineated in the "Installation and Service Manual for Whelen Anti-collision Strobe Light System's'
- 6. On Mitsubishi MU-2B, MU-2B-10, -20, -15, -30 aircraft: Whelen's "Mitsubishi MU-2B, -10, -20, -15, -30 Wing Tip and Tail Strobe Light Installation Procedure*, dated 19 February 1971, is required in addition to the "Installation and Service Manual for Whelen Anti-Collision Strobe light System*.
- This approval should not be incorporated in any aircraft of these specific models on which other approved modifications are incorporated, unless it is determined that the interrelationship between this change and any of those previously incorporated approved modifications will not introduce any adverse effect upon the airworthiness of the aircraft. This determination should include a night flight check as specified in AC 43.13-2 Chapter 4, Paragraph 42A.

NOTE: Aircraft whose application for type certification was made before April 1, 1957, may, but need not, comply with the field of coverage requirements of FAR 23(27).1401(b). Compliance with FAR 91.33(c) may be shown provided the light installation is in accordance with data approved prior to August 11, 1971, and applicable criteria of Advisory Circular 43.13-2 are met.

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(THIS IS A COMBINED REPRINT OF TWO STC.) CONTACT WHELEN ENGINEERING COMPANY, INC. FOR THE LATEST ELIGIBILITY LIST

NOTE: This eligibility list is for reference only. Whelen's PMA hardware can be installed on any aircraft using approved techniques and procedures found in this manual, and appropriate advisory circulars.

United States of America

Department of Transportation - Federal Aviation Administration

Supplemental Type Certificate

(Continuation Sheet)

Number

SA615EA SA800EA

Date Amended: June 18, 1999

ELIGIBILITY LIST

The following aircraft have been approved for installation of the Whelen H Series (HS, HD, HR, HD, T, HT, AND SA-14 or -28 volt) Aviation Red or Aviation White Anti-Collision Strobe Light Systems,. Aircraft identified by ## are not included on STC SA615EA Eligibility list.

June 18, 1999

AIRCRAFT MANUFACTURER	MODEL TYPE CE	RTIFICATE
ERO COMMANDER	100. 100-180	1A21
	111	A11SO
	112	A12SO
	500, 500-A, -B, -S, -U, 520, 560, 560A, 560E	6A1
	560F, 680, 680E, -F, 720, 680FL, 680FL(P), 680T, V, W, 681, 690, 685	2A4
MERICAN AVIATION	AA-1, *AA-1A	A11EA
	AA-5	A16EA
BEECH	23, A23, A23A, A23-19, -24, -19A, B19, M19A, B23, C23, A24, A24R, C24R	A1CE
	35, A35, B35, C35, D35, E35, F35, G35, 35R	A-777
	H35, J35, K35, M35, N35, P35, S35, V35, V35A, V35B, 35-33, 35-A33, 35-B33, 35-C33, 35-C33A, 36, A36, E33, E33A, E33C, F33, F33A, F33C	3 A 15
	50(L-23A), B50(L-23B), C50, D50(L-23E), D50A, D50B, D50C, D50E, E50(L-23D, RL-23D), F50, G50, H50, J50	5A4
	95-55, 95-A55, 95-B55, (T45A) 95-B55D, 95C55, 95, B95, B95A, D95A, E95, D55A, E55, E55A, 56TC, A56TC, A56TC	3A16
	65(L23F), A65, A65-8200, 65-8200, 65-80, 65-A80-8800, 65-B80, 65-88, B90, 65-90, 65-A90, 65-A90-1, (U21A, RU-21A, RU-21D), E90, 65-A90-2, (RU-21B), 65-A90-3 (RU-21C), 70	3A20
	60, A60 A	12CE
	99, 99A,100, 200	A14CE
BELLANCA	14-19-3A, 17-30, 17-30A, 17-31A, 17-31ATC	1A3
	7EC, 7ECA, 7FC, 7GC, 7GCA, 7GCAA, 7GCB, 7GCBA, 7GCBC, 7HC, 7JC, 7KCAB	A-759
BELL	206A, 206B, 206L, 206L-1, 206L-3, 206L-4, 407	H2SW
	47B, B3, D, D1, E, G, G-2, H1	H-1
	47G-2A, -2A-1, -3, -3B, -3B1, -3B-27, -4, -4A, -5, -5A	2H3
	47J, K, J-2, J-2A	2H1
BRITTEN NORMAN	BN-2, -2A, -2A-2, -2A-6, -2A-8	A17EU
	BN-2A, MK.III	A29EU
CESSNA	120, 140	A-768
	##140A	5A2
	150, 150A, B, C, D, E, F, G, H, J, K, L, M, A150K, A150L, A150M, 152, A152	3A19
	##170, 170A, 170B	A-799
	172, 172A, B, C, D, E, F, G, H, I, K, L, M, N, P, P172D, R172K	3A12

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AIRCRAFT MANUFACTURER	MODEL TYPE (ERTIFICATE			
CESSNA (continued)	P172D, 172RG, 175, 175A, B, D	3A17			
•	177, 177A, B	A13CE			
	177RG	A20CE			
	180, 180A, B, C, D, E, F, G, H, J, K	5A6			
	182, 182A, B, C, D, E, F, G, H, J, K, L, M, N, P, Q, R, T182, R182, TR182	3A13			
	185, 185A, B, C, D, E, A185E, A185F	3A24			
	188, 188A, B, A188, A188A, A188B, A188C	A9CE			
	##190, 195, 195A, B	A-790			
	206, P206, P206A, B, C, D, E, TU206A, B, C, D, E, F, G, TP206A, B, C, D, E, U206, U206A, B, C, D, E, F, G	A4CE			
	207, 207A, T207, T207A	A16CE			
	210, 210A, B, C, D, E, F, G, H, J, K, L, N, T210F, G, H, J, K, L, M, N, 210-5(205, 210-5A(205A), 210-5A, P210N	3A21			
	310, 310A, B, C, D, E, F, G, H, I, J, 310J-1, E310J, 310K, L, N, P, 310Q, T310P, Q, 310R	3A10			
	*320, 320A, B, C, D, E, F, 320-1, 340, 340A	3A25			
	*336	A2CE			
	337, 337A, B, C, D, E, F, T337D, E, F, G	A6CE			
	*401, 401A, B, 402, 402A, B, 411, 411A, 421, 421A, 414, 421B	A7CE			
DeHAVILLAND OF CANADA	DHC-2 MK.I, MK.II, MK.III	A-806			
	DHC-3	A-815			
	DHC-6, Models 1, 100, 110, 200, 210, 300	A9EA			
FAIRCHILD HILLER	FH-1100	H2WE			
GRUMMAN	##G-164, G-164A, G-164B	1A16			
HELIO	H-250, H-295, H-391, H-391B, H-395, H-395A	1A8			
HUGHES	269A, B, C, 269A-1				
	369, 369A, H, HM, HS, HE				
PIPER	PA-11 .	A-691			
	PA-12	A-780			
	PA-14	A-797			
	PA-15	A-800			
	PA-16	1A1			
	PA-17	A-805			
	PA-18 Series, PA-19	1A2			
	PA-20	. 1A4			
	PA-22 Series	1A6			
	PA-25 Series	2A8			
	PA-23, PA-23-160. *PA-23-235, *PA-23-250, *PA-E23-250	1A10			
	PA-24-180, PA-24, -24-250, -24-260, -24-400	1 A 15			
	PA-28-140, -28-150, -28-151, -28-160, -28-161, -28-180, -28-235, -28S-160, -28R-180, -28S-180, -28-181, -28R-200, -28R-201T, -28R-201T, -28RT-201T, -28RT-201T, -28-236	2A13			
	PA-30, PA-39, 151, 161	A1EA			
,	PA-31P				
	PA-31, PA-31-300, 325, 350				
	PA-32-260300, PA-32S-300, R300, R301T	A3SO			
MOONEY	##M20B, C, D, E, F, G, J, K, L, M	2A3			
MITSUBISHI	##MU-2B, MU-2B-10, -15, -20, -30	A2PC			
UNIVAIR (STINSON)	##108, 108-1, -2, -3, -5	A-767			

NOTES TO ELIGIBILITY LIST:

^{*} Aircraft as marked require specific attention to proper balancing of the rudder. Refer to the Manufacturer's Service Manual for balancing instructions.

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Federal Aviation Administration

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

Form Approved OMB No. 2120-0020

For FAA Use Only

Office Identification
F SOO EA-25-TER

INSTRUCTIONS: Print or type all entries	i. See FAR 43.9, FAR 43 Appendix B,	and AC 43.9-1 (or subsequent revision thereof) for instructi	ons
and disposition of this form. This report	s required by law (49 U.S.C. 1421).	Failure to report can result in civil penalty not to exceed \$1,00	0
for each such violation (Section 901 Fed	eral Aviation Act of 1958).		

for each such	violation (Section 901	recensi Aviation Ad	ct of 1958)).							
· -	Make Mooney		Model M20C	<u></u>		· · · · · · · · · · · · · · · · · · ·					
1. Aircraft	Serial No. 3372	· , , , , , , , , , , , , , , , , , , ,				Nationality and Registration Mark N953MA					
	Name (As shown on	registration certific	ate)		Address (As shown on registration certificate)						
2. Owner	Michael R. Con	J	ano,	P.O. Box 338 Central Valley, NY 10917							
				3. Fe	or FAA Use On	ly					
								·			
				4. U	nit Identificati	on			5. Type		
Unit Make					Model		Serial No.		Repair	Alteration	
AIRFRAME (As de					d in Item 1 abov	re) ———				х	
POWERPLANT											
PROPELLER											
APPLIANCE	Type Manufacturer										
		· · · · · · · · · · · · · · · · · · ·	6		nformity State	ment				· · · · · · · · · · · · · · · · · · ·	
A. Agency's Na	me and Address			B. K	Gind of Agency			C. Certifi	cate No.		
Jeffrey Ed				_x_	U.S. Certificate	d Mechanic		104566816			
36 Wheeler Warwick, N				 	Foreign Certific		ic				
Walwick, N	11 10990				Certificated Re	pair Station	·				
					Manufacturer						
have been	hat the repair and/or a n made in accordance herein is true and cor	with the requireme	ents of Pa	rt 43	of the U.S. Fed	above and d leral Aviation	described on the reverse Regulations and the	erse or an at the info	rachments her imation	eto .	
Date				Sign	nature of Author	rized Individu	ual				
June 21, 2	2005			\	Shows	o Je	•				
			7. Ap	prov	al for Return T	o Service					
	he authority given pers of the Federal Aviation			it ider	tified in item 4 $\mathbb{I}_{\mathbb{X}}$ APPROVE	was inspecte	ed in the manner pre EJECTED	scribed by	y the		
	Fit. Standards ector	Manufacturer	X	Ins	Inspection Authorization Person Approved by Transport Canada Airworthiness Group				-		
1 1 1	Designee	Repair Station		Ca				•			
June 21,	·	Certificate or Designation No.	-	1 *	nature of Autho		ual O Cass	Blo	h		
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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.

Description of V (If more space is			sheets. Identi	ify with aircraft nationalit	y and registration mark a	and date work completed.)
Mooney	M20C	sn: 3372	N953MA	Tach:4390.60	TTAF:4390.60	June 21, 2005

- 1) Installed M20 Oil Seperator, LLC-Air Oil Seperator
- 2) This Installation is approved under STC SA02033AT.
- 3) STC SA02033AT was issued November 19,1999 amended January 09, 2003 to M-20 Oil Seperators, LLC.
- 4) Installation IAW M20 Oil Seperators, LLC Installation Instruction dated July 01, 1999 and revised January 24, 2005

5) Weight and Balance and Equipment List Revised. 6) Log Book Entry Reflects this installation. 7) A copy of the STC and AML has been added to the permanent records of this aircraft. 8) Instructions for Continued Airworthiness will be found in the installed manufacturer's maintenance manual and incorporated into the current aircraft inspection program, Oyherwise the Scope and Details of FAR 43, Appendix D will apply. -END-

Muited States of America Bepartment of Transportation — Nederal Abiation Administration

Supplemental Type Certificate

Number SA02033AT

M-20 Oil Separators, LLC 5612 NW 38th Terrace Boca Raton, FL 33496-2719

rifies that the charge in the type design for the following product with the lin specified hereen meets the aircoarthiness require onts of Part * of the Progulations

Original Product - Type & ortificate Number

* See Continuation sheets 3 thru 24.

Theoryptics of Type Daign Charge Modification to Install an air-oil separator, to prevent oil from being aspirated from the engine breather line, in accordance with M-20 Turbos, Inc./M-20 Oil Separators, LLC, Assembly Drawing No. 303, Rev. B dated October 13, 1999 or 403, Rev. None, dated December 08, 2000 and Installation drawing no. 304, Rev None, dated September 27, 1999 or 404 Rev. None, dated December 08, 2000 Installation Instruction, Air/Oil Separator dated July 1, 1999, or later FAA approved revisions.

Similations and Conditions: Airplane Flight Manual Supplement is not part of this STC. This approval should not be extended to other aircraft of these models on which other previously approved modifications are incorporated unless it is determined by the installer that the interrelationship between this change and any of those other previously approved modifications will introduce no adverse effects upon the airworthiness of the aircraft. If the holder agrees to permit another person to use this certificate to alter the product, the holder shall give the other person written evidence of that permission.

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

Date of application . May 05, 1999

Dals of issuance: November 19, 1999

. March 16, 2000; September 19, 2000; January 18,

: February 28, 2000; December 21, 2000; D 10, 2001; May 22, 2002: January 09, 2003

(Title) Any alteration of this certificate is pumishable by a fine of not exceeding \$1,000, or imp

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Muited States of America

Bepartment of Transportation - Nederal Abiation Administration

Supplemental Type Certificate

(Continuation Sheet)

Number SA02033AT

Date of Issuance: November 19, 1999
Date Amended: February 28, 2000; December 21, 2000; November 1, 2001; May 22, 2002, January 09, 2003 Date Reissued: March 16, 2000; September 19, 2000; January 18, 2001

Model 300 Eligibility Continued:

Type Certificate Number

Model

Airworthiness

Requirements

LUSCOMBE:

A-694

8, 8A, 8B, 8C, 8D, 8E, 8F, T-8F

CAR 4a

A-804

MAULE:

Bee Dee M-4, M-4, M-4C, M-4S, M-4T, M-4-180C, M-4-180S, M-4-180T, M-4-210, M-4-210C, M-4-210S, M-4-210T, M-4-220, M-4-220C, M-4-220S, M-4-220T M-5-210C, M-5-210TC, M-5-220C, M-5-235C, M-6-180,

M-6-235, M-7-235, MX-7-235, MX-7-180,

CAR 3, FAR 23

CAR 3

MICCO AIRCRAFT CO. (Meyers):

MAC-125C, MAC-145, MAC-145A

CAR 4a. FAR23

MOONEY AIRCRAFT CORPORATION:

M20, M20A, M20B, M20C, M20D, M20E, M20F, M20G, M20J, M20K, M20M, M20R, M20S

CAR 3, FAR 23

A6SW

2A3

M-22

CAR 3

MOONEY MITE AIRCRAFT CORP.

A-803

M18-L, M18-C, M18-LA, M18-C55

CAR 3

MOROVAN NATIONAL CORP. (Zlin) A30EU Zlin 526L

FAR21,23

NAVAL AIRCRAFT FACTORY:

A-2-569

N3N-3

CAR 4a

NAVION

A-782

Navion (L-17A), Navion A (L-17B, L-17C), Navion B,

Navion D, Navion E, Navion F, Navion G, Navion H

PARTENAVIA:

A31EU

P68, P68B, P68C, P68C-TC, P68 "Observer,"

P68 "Observer 2, " P68 TC "Observer"

Amy alteration of this certificate is punishable by a fine of non

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		Section 198	
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EAZ5200 603773

US Department of Transportation Federal Aviation Administration

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

Form Approved OMB No. 2120-0020

For FAA Use Only

Office Identification AEA-FSIDO

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

	Make						Model			-		
. Aircraft	Mooney						M20C					
, Allerait	Serial No.					Nationality and Registration Mark						
	3372		*			N953MA						
	1		registration certific	ate)		Address (As shown on registration certificate)						
. Owner	Michael R.	Cor	en .				Box 338 Central	Valley, NY 1	0917			
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	_ 				3.	For FAA Use O	nly					
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	·				4	. Unit Identificat	ion			5. Type		
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Unit		Mak	e ,			Model	,	Serial No.		Repair	Alteration	
										Ī .	٠,	
IRFRAME	<u> </u>	(As described in Iter						flem 1 above)				
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OWERPLAI	VT		l.									
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ROPELLER												
	Туре		· · · · · · · · · · · · · · · · · · ·				·			 	<u></u>	
	Type	Type							•			
APPLIANCE	Manufacturer	Manufacturer								1		
			•			•				1		
					6. (Conformity Stat	ement					
A. Agency's	Name and Address				T	3. Kind of Agency			C. Certif	ficate No.	·	
	Cruz Hernande	z			\perp	x U.S. Certificated Mechanic 146632						
-	ect Hill Road kville, NY 127	129			\vdash		cated Mechanic		1			
Duducad					H	Certificated R Manufacturer	epair Station	•	1			
D. Loedifi	that the repair and	l/or al	teration made to 1	he unit/	(e) in		above and de	escribed on the re-	verse of a	tachments her	eto	
have b	een made in accord	ance	with the requireme	ents of I	Part	43 of the U.S. Fe	deral Aviation I	Regulations and the	at the info	mation	-	
	ed herein is true an	di con	ect to the best of i	my knov		<u> </u>						
Date	•				'	Signature of Auth	orized Individua		_	•		
June 01,	2004		7 , 4		1	Edelmiro Cr	ız Hernande		On	w. (Hel	
				7.6	hnni	oval for Return	To Service	/_ ~				
	o the authority given			w, the u			was inspected	in the manner pro JECTED	escribed t	by the	,	
l tr	AA Fit. Standards ispector		Manufacturer	1	х	Inspection Author	ization .	Other (Specify)_			
BY	AA Designee		Repair Station			Person Approved Canada Airworth				٠		
Date of App	roval or Rejection		Certificate or		1	Signature of Auth	orized Individua	al				
June 01	2004		Designation No.			Edelmiro Cr	uz Hernande	z / /		\circ	262	

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.)

 N953MA Mooney M20C S/N: 3372 Tach: 4430 TTAF: 4430 Date: June 01, 2004
 - 1. Removed original equipment air filter (paper type) and installed Brackett Air Filter assembly Model No. BA-6110 as per Brackett Instruction Sheet part number BA-6105, revision date 04/12/04, as listed in STC SA71GL, issued to Brackett Aero Filters, Inc. on February 21, 1975, latest re-issue June 20, 2000, amended April 17,1995.
 - 2. STC was used as Approved Data for this installation.
 - 3. All work was accomplished as per manufacturer's installation instructions.
 - 4. This installation has no obvious effect on other aircraft systems.
 - 5. Equipment list was revised to reflect this installation and inserted in the Aircraft Records.
 - 6. Logbook entries have been made to reflect this installation.
 - 7. Weight and Balance, N/A
 - 8. Instruction for Continued Airworthiness, if applicable will be found in the Brackett Air Filter Document I-194 and incorporated into the current aircraft's inspection program, otherwise the scope and detail of FAR 43, Appendix D will apply.

Additional Sheets Are Attached

Bepartment of Aransportation - Aederal Stistian Soutivistration Supplemental Type Certificate Heritad Numer (Of America

Number SATIGL

Mi Britans ward a BRACKETT AERO FILTERS. INC. 7052 Government Way Kingman Arizona 86401

- delina ditions thought as yo in the type design for the following paraloit will the traitetimes and - 4.1h

Britania Brown Christians . Winder: * See strucked Approved Model List (AML)

* *(AML) No. SATIGL for list of approved sincon

* "models and applicable airworthiness regulations.

dated April 17, 1995, or later FAA approved revision. The Live Manger. Installation of sir filters in accordance with AML No. SATIGL

the sirvorthiness of that aircraft. A copy of this Certificate and FAA Approved Model List (AMLI No. model(s) only. This approval should not be extended to aircraft of its smodel on which other piec inush SATIGL dated April 17, 1995, or later FAA approved revision must be maintained as part of the change and any of those other previously approved modifications will introduce no adverse effect upon permanent records for the modified aircraft. approved modifications are incorporated unless it is determined that the interrelationship between this Handelines and Knocklines Approval of this charge in type design applies to the above aircrait

Administrator of the Followal Ariabism. Administration ded, succled as a terminative date so abborrain adultished by the erding data article is the hains for agarmed shall remain in Africa

February 21, 1975

Stude opt approached in Japuary 9, 1975

April 17, 1995

26ch March 3, 1983, June 20, 2000

Manuger, Tech. and Admin. Support Staff Los Angeles Aircraft Certification Office.

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FAA APPROVED MODEL LIST (AML) NO. SA71GL BRACKETT AERO FILTERS, INC. FOR INSTALLING AIR FILTERS

•		٠.		:		Íssi	ue Date: /	April 17, 1995
	AIR FILTER	TOP DRAWING				ORIGINAL TYPE		AML
ITEM	MODEL NUMBER	NUMBER	REVISION & DATE	AIRCRAFT MAKE	AIRCRAFT MODEL	CERTIFICATE NUMBER	CERT. BASIS	AMENDMENT DATE
				Cessna	172RG	3A17	CAR 3	·
			D	Cossna	13378/C/D/E/F/G/H, P337H, T337H-SP (Rear Engine Only)	ASCE	CAR 5	-
36	BA-6810	BA-5810	11/22/94		"" END	OF DATA ***		
		, ,		Mooney	MZ0/A/B/C/D, M20G	2A3	CAR 3	7/12/95
39	BA-6110	BA-6110	C 6/7/95	Maule	M-4, M-4C, N-4S, M-4T, M-4-22D, M-4-220C, M-4-220S, M-4-220T, M-4-180C, M-4-180S, M-4-180T, M-5-220C, M-5-25SC, M-5-180C, M-5-210TC, M-8-180, M-8-23S, M-7-235, MX-7-180	5A23	CAR 3	7/12/95
					~ END	OF DATA "A		
				Моопву	M20J	2A3	CAR 3	
40	BA-6210	BA-6210	C 6/13/95		END	OF DATA ***		
				Seech	95-C55, 95-C55A, D55, D55A, E55, E55A (SN TE-788 Inru SN TE- 1078), 58 (SN TH-1 Riru TH-740)	. 3A16	CAR 3	
41	BA-6210-1	BA-6210-1	N/C 10/25/85		 END	OF DATA ***		
1	l	i	l			·		

		ı



BRACKETT AERO FILTERS, INC.



<u>INSTRUCTIONS</u>

ASSEMBLY PART NO. BA-6110

APPROVED ON AIRCRAFT MODELS: SEE FAA APPROVED APPLICABILITY LIST.

REPLACES: Mooney PN 13219

FAA APPROVAL DATA:

STC-SA71GL LIST NO. 1

FAA-PMA SUPPLEMENT NO. 1

Your new polyurethane air filter element has been designed to provide maximum dust collecting efficiency, non-restrictive air flow, and economical element replacement, while maintaining a lightweight filter. The element has been treated with a distinctive treatment called a wetted agent and is approximately 98% efficient. The wetted agent is an accompaniment in the efficient capturing of dust. In addition, the element has received a fire retardant treatment. For the above reasons, replace the element each 100 hours of use/12 months or when 50% covered with foreign material. DO NOT WASH AND REUSE.

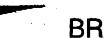
INSTALLATION INSTRUCTIONS

- STEP 1. Remove filter cover plate PN 650029-000 from the cowl.
- STEP 2. Unscrew the existing filter PN 13219 and discard.
- STEP 3. Inspect flex duct and heat box for condition making sure valve shaft and bushing is not worn. If un-airworthy, repair or replace worn carburetor heat box.
- STEP 4. Make sure flex duct is in position in front of the cowl opening and with the holes aligned. Screw the frame in place with 4 ea. MS35206-246 screws. Select a Phillips screw driver of a small enough diameter to slip through the four holes in the front of the frame.
- STEP 5. Install filter element PN BA-6108, making sure the taper of element is the same as the taper of the frame and contact is being made on all sides.
- STEP 6. Install grill with the 2 legs under the frame and the cross bars facing out. Align the piano hinges and insert safety pin making sure it is in the locked position.
- STEP 7. Re-install cover plate on the cowl.
- STEP 8. For all future element replacements, only remove safety pin and grill, then remove and replace element PN BA-6108.
- STEP 9. NOTE: After initial installation of filter assembly, fill out FAA form 337 for return to service. On future replacement of parts this form will not be required.

SERVICING: Under normal conditions, replace filter element, PN BA-6108, after 100 hours use or 1 year intervals. Under severely dusty conditions, check daily and replace when element is 50% covered with foreign material. For Continued Airworthiness see Form I-194.

Instruction Sheet Part No. 6105 Date Rev: 04-12-04 Mfg. by: BRACKETT AERO FILTERS, INC. Kingman, AZ

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BRACKETT AIR FILTER DOCUMENT I-194



PLACE IN AIRCRAFT RECORDS

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

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

INSPECTION PROCEDURES

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

		/w/x/
PART	RED.	4 / 8 /
FRAME	X	COMPLETE NEW ASSEMBLY
GASKET	X	ON FILTER FRAME, REMOVE OLD NEOPRENE GASKET AND ALL TRACES OF ADHESIVE DOWN TO A CLEAN ANODIZED FRAME SURFACE.
		USE ADHESIVE 3M#847 OR DOW CORNING RTV-732. COAT ENTIRE MATING SURFACE (GASKET TO FRAME). APPLY ADHESIVE FOLLOWING MANUFACTURER'S
		LABEL DIRECTIONS. WHEN FRAME AND GASKET ARE PLACED TOGETHER,
· .		CLAMP OR WEIGHT DOWN AT .75 LB /SQ. IN. OF CONTACT AREA. ALLOW TO
		CURE 24 HOURS PRIOR TO INSTALLATION.
		PRIOR TO REINSTALLATION OF FILTER, CHECK AIRBOX MATING SURFACE FOR IRREGULARITIES. IF FOUND, CORRECT PER MANUFACTURER'S REQUIREMENTS.
		UPON REINSTALLATION CHECK THAT THE GASKET MAKES 100% CONTACT. THE
		GASKET SHOULD BE COMPRESSED 50% FOR OPTIMUM SEAL.
GRILL	X	REPLACE WITH NEW GRILL
HARDWARE	Χ.	REPLACE UNSERVICEABLE WITH NEW
SCREEN	X	COMPLETE NEW ASSEMBLY
SCREENGASKET	X	COMPLETE NEW ASSEMBLY (ASSEMBLIES USING SCREEN GASKETS PRE 1981; BA-4108, EA-5110 AND BA-6110.)
ELEMENT	X	REPLACE ELEMENT
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US Department of Transportation Federal Aviation

Administration

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

Form Approved OMB No. 2120-0020

For FAA Use Only

Office Identification

AFA-FSDO-25

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

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	$\overline{}$								Model	—					
		Make Mooney					Model M20C								
1. Airc	craft	Serial No. 3372						Nationality and Registration Mark N953MA							
<u></u>			י חס ת	registration certific	ate)		_				hown on regi	stratic	on certific	cate)	
_		Michael R. Con			7.	•			Box 338	8				•	
2. Ow	ner										ey, NY 10917				ı
									<u> </u>						
		254						or FAA Use On		le -	<u></u>	-		04 000	
	appli for th	icable airwort ne above des	thine scrib	nerein complie ess requireme ned aircraft, su on authorized	ents ubje	and ect to AR	d is o co 2 43	is approved onformity 3.7."	Charle	90	Inspector	-		t.04, 2004 A-FSD0-25	5
							4. U	nit Identification	on					5. Type	
	Unit		Make	е				Model	• .	<u>.</u>	Serial	No. ,		Repair	Alteration
AIRFR	AME	AME (As described in Item 1 above)									x				
POWE	ERPLANT								1					·	
PROP	PELLER								,						
Туре								:							
APPL	LIANCE	Manufacturer			-				1				į		
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_								nformity States	ment						_
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Edelmiro Cruz Hernandez				ŀ	X U.S. Certificated Mechanic 14663:					1466324					
25 Prospect Hill Road Cuddebackville, NY 12729			1	_					_						
					_	Certificated Repair Station Manufacturer									
D. I certify that the repair and/or alteration made to the unit(s) identified in item 4 above and described on the reverse or attachments hereto have been made in accordance with the requirements of Part 43 of the U.S. Federal Aviation Regulations and that the information furnished herein is true and correct to the best of my knowledge.															
Date	Construe of Authorized Indiades														
Jun	June 01, 2004 Edelmiro Cruz Hernandez														
_	·							al for Return T							
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ву		A Fit. Standards pector		Manufacturer		x		pection Authoriz			Other (Spec	city) ¯			
		\ Designee		Repair Station			Car	rson Approved to nada Airworthin	ess Group	<u>'</u>				,	
Date	of Approv	al or Rejection		Certificate or Designation No.		Ī	"	nature of Autho				7	_		2/ =-
June 01, 2004 1466324			Edelmiro Cruz Hernandez												

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.)

N953MA Mooney M20C S/N: 3372 Tach: 4430 TTAF: 4430 Date: June 01, 2004

- 1. Removed II Morrow Appollo 611 Loran in center stack and installed a Garmin GPS 300XL com/nav system at same location. Unit meets TSO-C129 Class A-1.
- 2. Unit wired to buss using inline 10 amp fuse using wiring diagram below.
- 3. Unit installed for VFR Flight, and placarded "FOR VFR USE ONLY" in accordance with Garmin Installation Manual P/N 190-00067-22 Rev. E dated Sept. 2000. AC 43.13-2A chapter 2 par. 21, 22 and 23a, and AC 20-138A par. 9 and appendix 5.
- 4. This installation has no obvious effect on other aircraft systems. EMI check performed in accordance with AC-25-10 par. 5F and N. AC 43.13-1B chapter 11 sec. 8, par. 11-106 and 11-107.
- 5. Electrical load analysis performed and this system does not exceed 80 % of alternator load in accordance with AC 43.13-1B chap. 11, sec. 3, par. 11.30, 11.36, and 11.37.
- 6. Flight manual supplement has been added to the permanent records of this aircraft.
- 7. Logbook entries have been made to reflect this installation.
- 8. Weight and Balance revised, equipment list updated.
- 9. Compass swung and card revised in accordance with AC 43.13-1B chap. 12, sec. 3, par. 12.37.

10. See attached ICA.	
	END

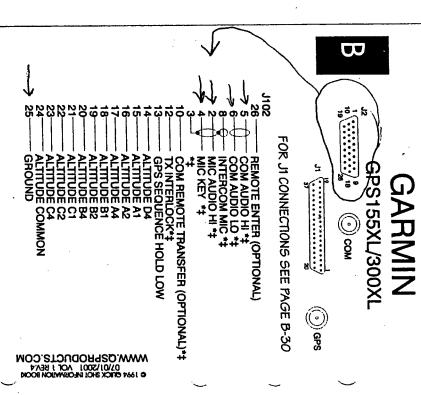
N953MA Mooney M20C S/N: 3372 Tach: 4430 TTAF: 4430 Date: June 01, 2004

Installed a Garmin GPS 300XL com/nav system.

11. Instructions for continued airworthiness.

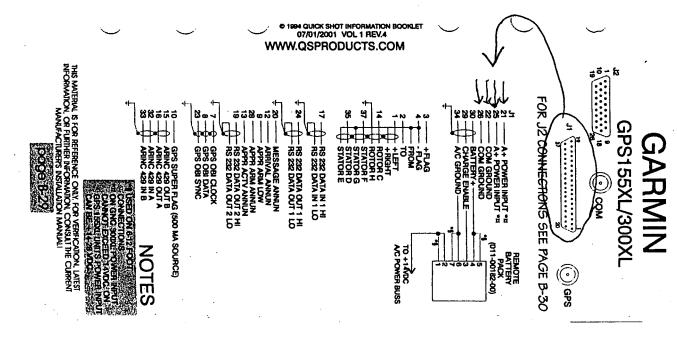
- 1. Introduction: see above.
- 2. Description: see above.
- 3. Control, operation information: See Block 8 number 3 of attached 337 for installation/operation manual number.
- 4. Servicing information: See appropriate manufacturer's maintenance manual.
- 5. Maintenance instructions: None required.
- 6. Troubleshooting information: Check circuit breaker for power and on/off switch for function.
- 7. Removal or replacement information: Unit can be removed from aircraft in conventional manner.
- 8. Diagrams: See attached diagram.
- 9. Special inspection requirements: N/A
- 10. Application of protection treatments: N/A
- 11. Data relative: N/A
- 12. List of special tools: N/A
- 13. Commuter category: N/A
 - 14. Recommended overhaul periods: No overhaul time is required.
 - 15. Airworthiness limitation section: N/A
 - 16. Revision: A letter will be submitted to the local FSDO with a copy of the revised FAA form 337 and revised ICA.
 - 17. Assistance: N/A
 - 18. Implementation of record keeping: See aircraft's airframe logbook for entry dated 06/01/04 and AFM supplement section.

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US Department of Transportation

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

Form Approved	-
OMB No. 2120-0020	24

For FAA Use Only

Office Identification AEA-FSDO-25

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

	Make .							Model					
I. Aircraft	Mooney							M20C					
Anviai,	Serial No. 3372							Nationality N953M		Registration Ma	ırk		
	•		registration certific	ate)		Address (As shown on registration cert					tion certific	cate)	
2. Owner	Michael R.	Coren				Box 338 Central Valley, NY 10917					•		
					3	3. For	FAA Use Or	olv				· · · · · · · · · · · · · · · · · · ·	
	applicable for the abo	airwor	ed herein con thiness requir scribed aircraf	remer ft, sub	s wi nts bjed	ith the	he I is appro conformit	Approved	L 4	g Inspector	• A	Aug.11, 20 EA-FSD0-	
	irispection	by a p	erson authori	zoa ir	7	i. Un	it identificati	on				5. Type	
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POWERPLA	INT												·
PROPELLE													·
APPLIANCE	E Manufactur	er											
	· ·				6.	Conf	formity State	ment	<u></u>		*****		<u> </u>
A. Agency's	Name and Addr	988					nd of Agency				C. Certifi	cate No	
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Date					Т	Signa	ature of Author	orized Indivi	idual				
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Administr	ator of the recer	al Aviatio	sons specified belo in Administration a	w, the	unit	ident	APPROVE	was inspec	REJE	CTED		y the	
	FAA Fit. Standar Inspector	ds	Manufacturer		x	<u> </u>	ection Author		_	Other (Specify)		-
	FAA Designee		Repair Station			Cana	son Approved ada Airworthii	ness Group)				
Date of Ap	proval or Rejection	អា	Certificate or Designation No.		١	Sign	nature of Auth	orized Indivi			,		
June 01,	2004		1466324			Edi	lelmiro Cruz H	ernandez		Lype	w	and	200

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, ettach additional sheets. Identify with aircraft nationality and registration mark and date work completed.)

 N953MA Mooney M20C S/N: 3372 Tach: 4430 TTAF: 4430 Date: June 01, 2004
 - 1. Installed an Aircraft Instrument and Development Remote Compass System which meets TSO-C7d.
 - 2. Remote indicator P/N 17-114 installed at windshield center post.
 - 3. Inverter P/N 53-1100-4 installed at R/H side of fuselage 4 inches aft of firewall using 4 8/32 screws and nuts.
 - 4. Transmitter installed at back of fuselage bulkhead assembly P/N 350025-501 by using two aluminum angles $2024T3\ 3.25 \times 3.25 \times 1/4$ inches bolted at each end to bulkhead assembly by using two MS35207-260 screws and two AN364-1032 nuts.
 - 5. Installation accomplished in accordance with AC 43.13-2A Ch. 1 and Ch. 2 fig. 2.9, par. 25. Structurally tested all units in accordance with AC 43.13-2A Ch. 1 par. 3A through 3D. Test was satisfactory.
 - 6. System wired to buss with 5 amp inline fuse and S.PS.T. switch
 - 7. Electrical load analysis performed and this system does not exceed 80 % of alternator load in accordance with AC 43.13-1B chap. 11, sec. 3, par. 11.30, 11.36, and 11.37.
 - 8. This unit is an optional installation only and does not replace existing compass.
 - 9. No Flight manual supplement required.

11. See attached ICA.

- 10. Weight and Balance revised, equipment list updated.

Mooney M20C S/N 3372

TT: 4430

Date: June 1, 2004

N953MA

Installed a Aircraft Instrument and development remote compass system.

11. Instructions for continued airworthiness.

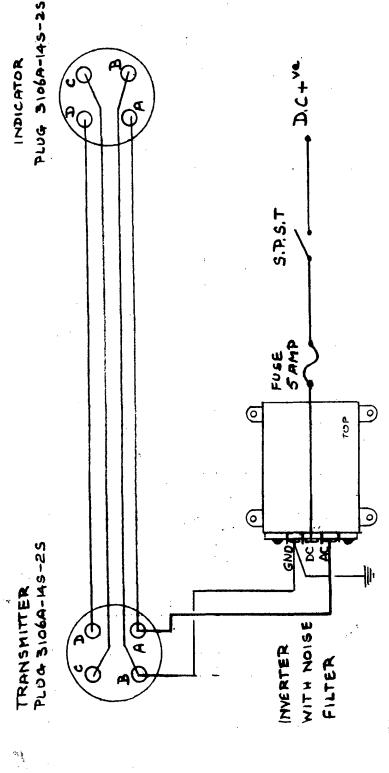
- 1. Introduction: see above
- 2. Description: see above
- 3. Control, operation information: See Block 8 of attached 337 for installation/operation manual number.
- 4. Servicing information: See appropriate manufacturer's maintenance manual.
- 5. Maintenance instructions: None required.
- 6. Troubleshooting information: Check circuit breaker for power and on/off switch for function.
- 7. Removal or replacement information: Unit can be removed from aircraft in conventional manner.
- 8. Diagrams: See block 8 of attached 337...
- 9. Special inspection requirements: N/A
- 10. Application of protection treatments: N/A
- 11. Data relative: N/A
- 12. List of special tools: N/A
- 13. Commuter category: N/A
- 14. Recommended overhaul periods: No overhaul time required.
- 15. Airworthiness limitation section: N/A
- 16. Revision: A letter will be submitted to the local FSDO with a copy of the revised FAA form 337 and revised ICA.
- 17. Assistance: N/A
- 18. Implementation and record keeping. See aircraft's airframe logbook for entry dated 06 /01/04 and AFM supplement section.



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REMOTE COMPASS WIRING DIAGRAM.

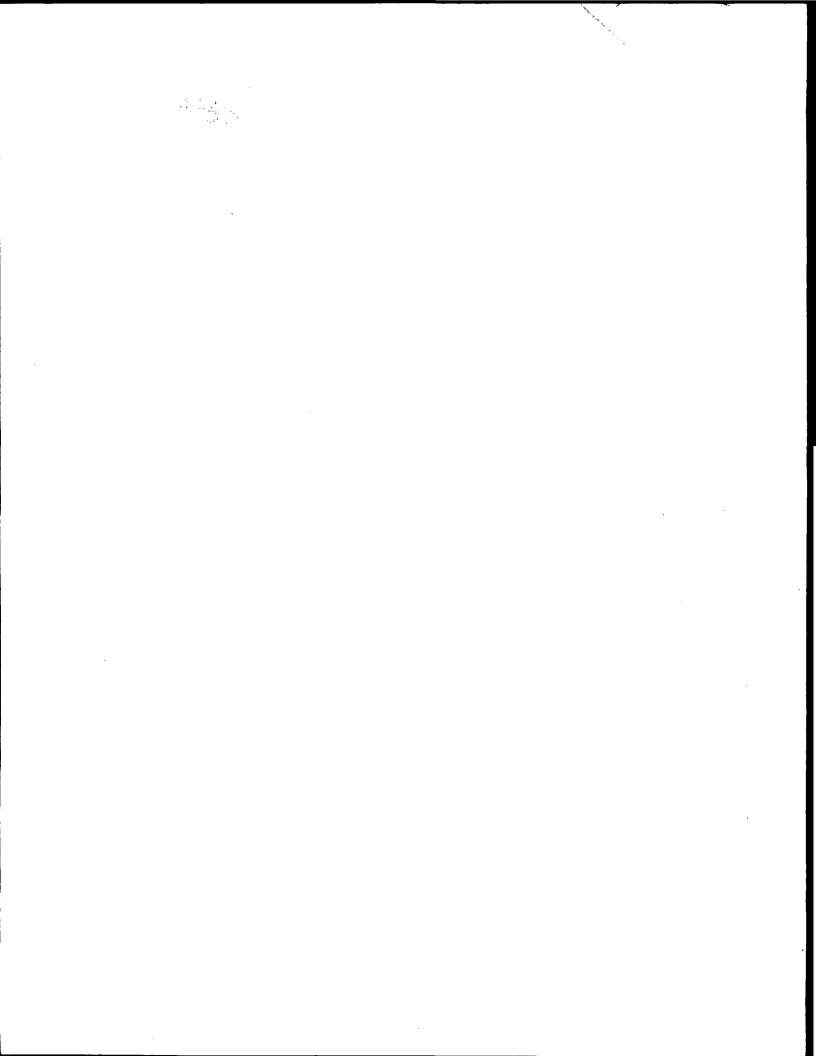
If additional indicators are added they should be wired in parallel. Connect the units as shown below. Shielded cable is not required.



COMPENSATION

For correct compensation the following precautions must be taken:-

- 1. Select a location for swinging the ship which is free from artificial disturbances, e,g., power lines, pipes, steel structures, etc.
- 2. Raise the tail of the aircraft to normal cruising attitude.





Federal Aviation Administration

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

Form Approved OMB No. 2120-0020

For FAA Use Only

Office Identification

PSOO AEA-25 TEB

	Make Mooney					Mode M	el 20C				
I. Aircraft					Nationality and Registration Mark						<u></u>
	3372				N953MA						
	Name (As show	n on i	registration certificate)		Addr	ress (As	shown on registral	ion certifi	cate)	
2. Owner	Michael R. Core	≅n			Box 338 Central Valley, NY 10917						
	·				3. Fo	r FAA Use Only					
					4. Uı	nit Identification				5. Type	
Linit			_			Model	T	Serial No.		Repair	Alteration
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AIRFRAME	Ε _	(As descri								x	
POWERPI	LANT										
PROPELL	.ER										
APPLIAN	Туре										
	Manufacturer	_									
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	pect Hill Road ackville, NY 12729			-	\dashv	Foreign Certificated N					
000000	uortmo, 141 .2.20			ŀ	\vdash	Certificated Repair St	tation				
hav	ertify that the repair and we been made in accordanished herein is true and	ance	with the requirements	s of Pa	rt 43	of the U.S. Federal A	e and de Aviation I	escribed on the rev Regulations and the	erse or at at the info	tachments he mation	eto
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ву	FAA Flt. Standards Inspector		Manufacturer	х	insp	pection Authorization)	Other (Specify)	•		
	FAA Designee		Repair Station			son Approved by Tra					

Signature of Authorized Individual

Edelmiro Cruz Hernandez

June 01, 2004

Date of Approval or Rejection

Certificate or Designation No.

1466324

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.)

953MA Mooney M20C S/N 3372 Tach: 4430 Hours TTAF4430 Date: June 1, 2004

- 1. Installation of Alcor single cylinder EGT model number 46150 kit number 211-110-0 by persons unknown.
- 2. This kit is approved for installation in accordance with Alcor Inc. STC SA5222SW
- 3. STC SA522SW issued to Alcor Inc. dated May 26,1965, amended April 30, 1992 rev.15
- 4. Installation inspected and meets requirements in accordance with Alcor Master Drawing List for STC SA5225SW dated November 14, 1984.
- 5. Indicator installed at instrument panel and probe installed at Number 3 cylinder exhaust pipe.
- 6. This installation has no effect on any other equipment installed.
- 7. No flight manual supplement required.
- 8. Weight & balance updated to reflect this installation.
- 9. Logbook entries were made reflecting this installation.
- 10. A copy of STC has been added to the permanent records of this aircraft.
- 11. Instructions for continued airworthiness will be found in the equipment manufacturer's maintenance manual and incorporated into the current aircraft inspection program. Otherwise the scope and detail of FAR 43 Appendix D will apply.

United States Of America

Bepartment of Transportation - Federal Abiation Administration

Supplemental Type Certificate

Number SA522SW

This Certificate issued to

Alcor, Inc. 300 Breesport St. San Antonio, TX 78216

certifies that the change in the type design for the following product with the limitations and conditions therefor as specified hereon meets the aircorthiness requirements of Part 23 of the Federal Aviation Regulations Parts 3, 4a, 4b of the Civil Air Regulations

Criginal Product Type Certificate Number:

See Limitations and Conditions

Abake:

See Limitations and Conditions

Model:

See Limitations and Conditions

Description of Type Design Change

Installation of Exhaust Gas Temperature (EGT), Cylinder Head temperature CHT) Components/Systems in accordance with Master Drawing List titled "Alcor Master Drawing List for STC SA522SW dated November 14, 1984," or later FAA approved revisions.

Limitations and Conditions

All aircraft equipped with reciprocating engines are eligibile for the installation of the Alcor EGT and CHT Component/Systems.

Compatibility of this modification with previously installed equipment must be determined by installer. If the holder agrees to permit another person to use this certificate to alter the product, the holder shall give the other person written evidence of that permission.

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

Bute of application April 15, 1965

Dule of issuance . May 26, 1965

Date reisued: 07/05/94; 9/30/02

Date amended: April 30, 1992 Rev. 15

By direction of the Administrator

S. Frances Cox, Manager

Special Certification Office.

Southwest Region

(Title)



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

Form Approved OMB No. 2120-0020

For FAA Use Only Office Identification

FSOO AEA-25-TER

and dispositio	on of this form. Thi	is rep	tries. See FAR 43. ort is required by Federal Aviátion Ac	/ law (4)	19 U.	Appendix B, and S.C. 1421). Fails	AC 43.9-1 (are to report ((or sub	osequent rev sult in civil pe	ision there	of) for instruct o exceed \$1,00	ions 10
,	Make Mooney	-					Model M20C					
1. Aircraft	Serial No. 3372					Nationality and Registration Mark N953MA						
	Name (As show	n on i	registration certifica	ate)					wn on registr	ation certif	ficate)	·
2. Owner	Michael R. Core		-	2.2,		Address (As shown on registration certificate) Box 338 Central Valley, NY 10917						
	*				3.	For FAA Use On	nly					
				-		Paris Identificant		·	·····		J	
	γ				<u>4.</u>	. Unit Identification	on		·		5. Type	
Unit		Make	в			Model			Serial No).	Repair	Alteration
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POWERPLANT	Γ,											
PROPELLER												
APPLIANCE	Type Manufacturer											
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Edelmiro Cruz 25 Prospect H						X U.S. Certificate			· ·	1466324	l .	
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Date	-				Ts	Signature of Autho	rized Individ	uai				
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					<u> </u>	oval for Return T	To Service					
Pursuant to t Administrato	the authority given or of the Federal A	perso viatior	ons specified below Administration and	w, the u nd is	nit id	dentified in item 4 APPROVEI	was inspecte D D RI	ed in t	he manner pr TED	escribed t	y the	
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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.

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

953MA Mooney M20C S/N 3372 Tach: 4430 Hours TTAF4430 Date: June 1, 2004

- 1. Relocated Cleveland wheel brake assembly in accordance with Lasar Speed Mod STC #SA4443NM.
- 2. STC #SA4443NM was issued to Lasar Speed Mod July 9, 1982 with no amendments.
- 3. Installed in accordance with STC #SA4443NM and Lasar Drawing List Report 103B dated November 23, 1981.
- 4. No flight manual supplement required.
- 5. The weight and balance was not changed.
- 6. Log book entries were made reflecting this installation.
- 7. A copy of STC #SA4443NM and applicable model list have been added to the permanent records of this aircraft.
- 8. Instructions for continued airworthiness will be found in the equipment manufacturer's maintenance manual and incorporated into the current aircraft
 - inspection program. Otherwise the scope and detail of FAR 43 Appendix D will

• apply.

Department of Transportation — Lederal Aviation Administration

Supplemental Type Certificate

Number SA4443NM

Paul E. Loewen This colificaly issued to

cortified that the change in the type design for the following product with the limitations und conditions therefor as specified hereon much the sirworthings organizements of flat 3 of the Civil Air Regulations effective Nov 1, 1949, as amended to May 18, 1954.

Original Gooduct - Typo Cortificato Number: 2A3

Make: Mooney

Model: M20B, M20C, M20D, M20E, M20F, M20G, M20J, M20K

Description of Type Design Change, Installation of gap seals and speed fairings in accordance with the FAA sealed reports listed on page 3 dated as shown or later FAA approved revision.

Initialize the conditions. The approval of this change in type design applies to the basic aircraft of the specified models that are otherwise unmodified. This approval should not be extended to other aircraft of these models on which other previously approved modifications are incorporated unless it is determined by the installer that the interrelationship between this change and any of those other previously approved modifications will introduce no adverse effect upon the airworthiness of that aircraft.

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

rendered suspended rooked or a lormination date is alrowing established by the Staninistrator of the

Fodoral Aviation Administration.

Date of application: November 26, 1981

Dale reissued:

State of issuance: July 9, 1982

Dolo amendet:



Chief, Aircraft Modification Section

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

Page 1 of 3 Pages This certificate may be transferred in accordance with FAR 21.47.

Report 103

Date 11-23-81

Wheel well Liners and Brake Rotation

LASAR NOTE: KIT # 103B - AUTHORIZATION FOR THE APPLICATION OF THIS MODIFICATION IS GIVEN ONLY FOR USE ON THE SPECIFIC AIRPLANE DESCRIBED AS FOLLOWS:

INSTALLED ON: 66-C MOONEY N 953MA S/N 3372 Special Notes: Michael R Coren

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Bepartment of Transportation—Kederal Aviation Administration

(I) 7-9-82

Supplemental Type Certificate

(Continuation Sheet)

Number SA4443NM

Description of Type Design Change (Continued)

Report 100	<u>Date</u> 5-10-81	Title Flap Gap Seals
101	5-10-81	Aileron Lower Gap Seals
102	5-10-81	Flap Hinge Covers
103	11-23-81	Wheel Well Liners and Brake Rotation
104	3-01-82	Dorsal Fin Fairings
105	11-23-81	Tail Root Fairing - Horizontal
107	3-01-82	Wing Tip Fairings
108	3-01-82	Wing Root Leading Edge Fairing
111	11-23-81	Inboard Flap Bracket Fairing
112	3-01-82	Rudder and Elevator Hinge Covers

The above reports may be installed separately or in any combination.

- END -

. Lake Aero Styling and Repair 4725 Highland Springs Rd Lakeport CA 95453-9775 707-263-0412, FAX 263-0420

INSTRUCTIONS FOR CONTINUED AIRWORTHINESS

At ANNUAL intervals:

Mooney Aircraft M20 Series; STC SA4443NM, Kits 100, 101, 103A, 112 (Sheetmetal).

- 1. Check for security of all fasteners, replace as required as a security of all fasteners, replace as required as a security of all fasteners, replace as required as a security of all fasteners, replace as required as a security of all fasteners, replace as required as a security of all fasteners, replace as required as a security of all fasteners, replace as required as a security of all fasteners, replace as required as a security of all fasteners, replace as required as a security of all fasteners, replace as required as a security of all fasteners, replace as required as a security of all fasteners, replace as required as a security of all fasteners, replace as required as a security of all fasteners, replace as a security of all fasteners, replace as a security of all fasteners, replace as a security of all fasteners, replace as a security of all fasteners, replace as a security of all fasteners.
- Check general condition, cracks, corrosion, and mounting. Utilize Mooney Service Manual for repairs.

Mooney Aircraft M20 Series, STC SA4443/3263/4202/3252/4535NM, Kits 104, 107, 108, 119, 120, 129, 131 (Windshields and fiberglass).

- 1. Check for security of all fasteners, replace as required. Caution on torque of screws.
- 2. Check for general condition, cracks, mounting, corrosion. Replace windshields when cracked, crazed, sealant deterioration.
- 3. Fiberglass-check for delimitation, separation and/or exposed fibers.
- 4. Utilize Mooney Service Manual for instructions in determining condition when replacement due.
- 5. Contact Lake Aero Styling for repair instructions, when needed.

Mooney Aircraft M20 Series; STC SA4443/2513/5480/4502/2711NM, Kits 103B, 126, 127, 138 (Brake rotation, oil cooler relocation, engine replacement, flashing light module).

- 1. Utilize Mooney Service Manual for further inspection and repair.
- 2. Inspect for fraved insulation on wires. Replace if damaged.
- 3. Use additional Ty-Rap®'s, as necessary.
- 4. Check general condition of hoses, clamps, security, and fasteners/fittings.

All items of FAR 43 Appendix D, are applicable.

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US Department of Transportation Federal Aviation Administration

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

Form Approved OMB No. 2120-0020

Sps

For FAA Use Only

Office Identification FSDO-25

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

1 Δ	ircraft	Make MOONEY						Model M 200					
1. A	inciait	Serial No. 3372						Nationality N953N	y and Registration I ∕IA	Mark			
2. O	wner	Name (As show MICHAEL		registration certifi EN	cate)			ficate) 7					
							3. For FAA Use Only						
							4. Unit Identificati	on			5. Type	<u> </u>	
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Date						П	Signature of Author	ized Individ	ual		.,		
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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.

B. Description of Work Accomplished
(ir more space is required, attach additional sheets. Identify with aircraft nationality and registration mark and date work completed.)
Mooney M20C S/N 3372 N953MA T/T TacH 4268. HRS. May 29 2001
Installed a Remote Mounted AirWolf Engine Oil Filter Vit A P.O. Vices
IInstalled a Remote Mounted AirWolf Engine Oil Filter Kit AFC-K007 at upper right hand foward side of firewall using two p/n F13000008-0XX7 TITE FLEX firesleeved teflon hoses.
2) This istallation is approuved for intallation in accordence with STC SA00024NY.
y and administration of produced for gardanton in accordence with STC SA00024NY.
3) STC SA00024NY issued to AIRWOLF FILTER CORP. July 22, 1993 last amended May 23, 1997.
22, 1993 last amended May 23, 1997.
4) Installation In accordance with installation instruction no AEC Mood A 11 1 1 1 1
4) Installation In accordance with installation instruction no. AFC-K007-A-11 dated June 8, 1993 amended November 1, 1995.
5) This system has no obvious effects on other aircraft systems.
systems.
6) No manual cumplement required Court of the court of th
6) No manual supplement required for this installation.
7) Waisht and Date
7) Weight and Balance revised, equipment list updated.
8) Log Book entries were made reflecting this installation.
9) A copy of this STC. and AML. has been added to the permanent records of this aircraft.
10) Instructions for continued airworthiness will be found in the installed equipment manufactuers maintenance instructions no.
AFC-K007-M1 and incorporated into the current ispection program. Otherwise, the scope and detail of FAR> 43, Appendix D
END
and the state of t

Department of Transportation—Jederal Aviation Administration

Supplemental Type Certificate

Number SA00024NY

This certificate, issued to

Airwolf Filter Corp. 15369 Madison Road Middlefield, Ohio 44062

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

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

Make: *(AML) No. SA00024NY for list of approved

Mudel: *airplane models and applicable installation

*instructions)

Description of Trype Design Change:

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

Limitations and Genditions :

AEA-FSDO-25

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

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

Sale of application :

Sale reissued: June 8, 1993

Sale of issuance :

Tale unrended. 11/11/93, 2/3/94, 5/12/94, 11/22/94

By direction of the Statuenistrator

Manager, Airframe and Propulsion Branch New York Aircraft Certification Office

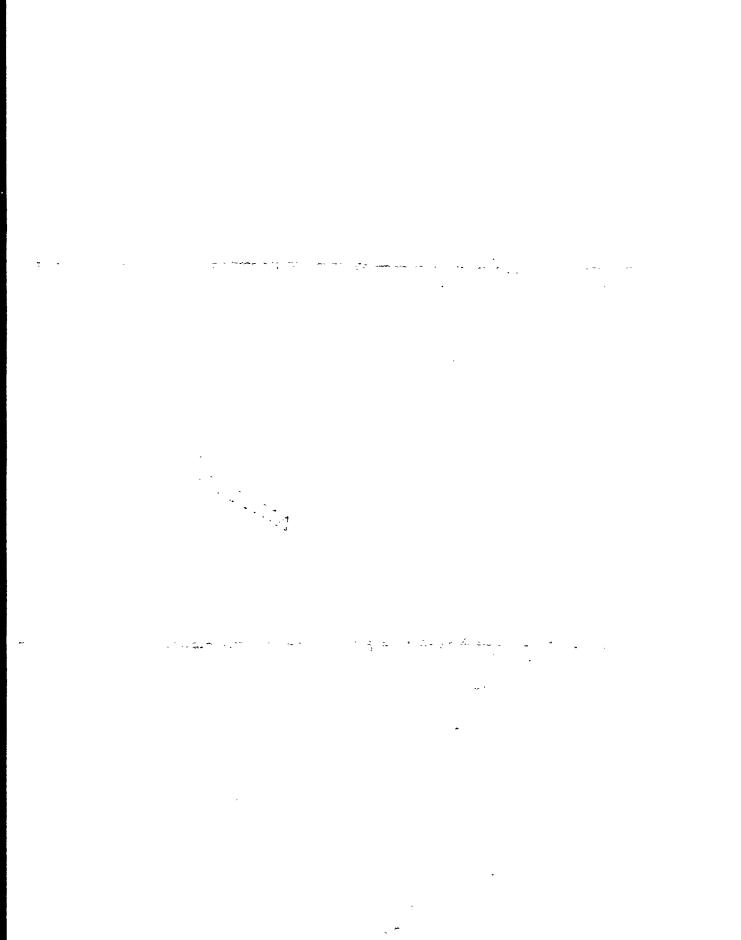
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Any alteration of this certificate is punishable by a fine of not exceeding \$1,000, or imprisonment not exceeding 3 years, or both.

This certificate may be transferred in accordance with FAR 21.47.

FAA FORM 8110-2 (10-68)

Page 1 of 9 Pages



APPROVED MODEL LEFT CALL AND THE COLUMN AIR WOLF THE COLUMN AIR WO

FOR INSTALLATION OF REMOTE MOUNT OF FILTER

Original Issue Date July 22, 1993

AML	Amendment Date	N/A		11/4/93		11/4/93		11/22/94		2/3/94		
Installation	Instructions	Airmolf Filter Corp.	Remote Mount Oil Filter kit AFC-K007-II, Dated June 8, 1993	S D	Atwelf Fixer Corp. Remote Mounted Oil Filter Kit	Attended to the Company of the Compa	Remote Mounted Oil Filter Kit ARC-KANT-II Dated June 8, 1993	Aims/Filter Com	Remote Mounted Oil Filter Kit AFC-K007-II, Dated June 8, 1993	Aimes Filter Com	Remote Mounted Oil Filter Kit AFC-K007-II, Dated June 8, 1993	
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	Aircraft Make		Pitts (AVIAT Inc.)		Mooney		American Champion	Aircraft Corp.	Beech		Cessna	
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ORIGINAL SIGNED BY.

ANTHONY SOCIAS FAA Approved:_

Anthony Socias

Manager, Airframe and Propulsion Branch New York Aircraft Certification Office

Amended: November 22, 1994

Page 3 of 9 Pages

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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.)

Date: January 11, 1996

Й953МА

Serial #: 3372

Aircraft total time: 4115

Resealed both L/H & R/H aircraft fuel tanks in accordance with STC#: SA3145SO and associated installation instructions.

Inspected cowl closure fairing previously installed by persons unkown. Installation found to conform to manufacturers installation instructions & STC#: SA4535NM.

Inspected nose gear truss replacement bushing previously installed by persons unkown. Installation found to conform to manufacturers installation instructions & STC#: SA3540NM.

Aircraft weighed 5/95 with above equipment installed. Current weight & balance is correct.

Appropriate log entries have been completed.

□ ADDITIONAL SHEETS ARE ATTACHED

C FAA AC 72-4906

U.S. GPO 1981 - 775-332 47

DEPARTMENT OF TRANSPORTATION Form Approved Budget Bureau No. 04-R060.1 FEDERAL AVIATION ADMINISTRATION FOR FAA USE ONLY MAJOR REPAIR AND ALTERATION OFFICE IDENTIFICATION
NEA-FSDO-6 (Airframe, Powerplant, Propeller, or Appliance) 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. MAKE MODEL M20C Mooney 1. AIRCRAFT SERIAL NO. NATIONALITY AND REGISTRATION MARK # 3372 # N953MA ADDRESS (As shown on registration certificate)
BOX # 338 NAME (As shown on registration certificate) 2. OWNER Mike Coren Centeral Valley N.Y. 10917 3. FOR FAA USE ONLY arr mothe gone in the coef ्रेक्ष्णित्रकृष्ट्वयं प्रतितेष्ठा । इत्यापन्तिकारः प्रकारीको । कार्य क्रियामगढल । इति इति छन्। क्रियर प्रकार स्था 医二角:使用数型量量量量10分配。 4. UNIT IDENTIFICATION 5. TYPE UNIT MAKE SERIAL NO. ALTER REPAIR AIRFRAME XX POWERPLANT N/A N/A PROPELLER N/A -N/A N/A N/A N/A N/A APPLIANCE MANUFACTURER N/A 6. CONFORMITY STATEMENT A. AGENCY'S NAME AND ADDRESS B. KIND OF AGENCY C. CERTIFICATE NO. John Neary Jr. 539 Victory Ave. Ridgefield N.J. 07657 CERTIFICATED MECHANIC (IA) FOREIGN CERTIFICATED MECHANIC CERTIFICATED REPAIR STATION # 156523327 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 12/31/84 7. APPROVAL FOR RETURN TO SERVICE Pursuant to the authority given persons specified below, the unit identified in item 4 was inspected in the manner prescribed by the Administrator of the Federal Aviation Administration and is APPROVED REJECTED FAA FLT. STANDARDS OTHER (Specify) MANUFACTURER --INSPECTION AUTHORIZATION BY CANADIAN DEPARTMENT
OF TRANSPORT INSPECTOR
OF AIRCRAFT

FAA Form 337 (7-67)

DATE OF APPROVAL OR

REJECTION

FAA DESIGNEE

12/31/84

SIGNATURE OF AUTHORIZED INDIVIDUAL

REPAIR STATION

CERTIFICATE OR

DESIGNATION NO. (IA) 156523327

(8320)

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.)

 Alteration:
 - 1.) Installed tail root fairing (horizontal) with approved parts listed:
 # 1011-350204-003 fairing tailroot 1/H

L014-350204-003 fairing tailroot l/H. # L015-350204-003 fairing tailroot R/H. qty.(2) Seals (no part no. given). qty.(94) 42H-4-4 USM Blind Rivets.

- 2.) Installed in accordance with S.T.C. # SA4443NM, and instructions provided on Lake Aero Styling and Repair Drawing List Report # 105.
- 3.) Installed flap gap seals with approved parts listed:

 # C-L002-210374-001 flap seal L/H. imboard.

 # C-L002-210374-002 flap seal R/H. imboard.

 qty.(2) # C-L 002-210374-003 flap seal L/H.

 qty.(2) # C-L 002-210374-004 flap seal R/H.

 qty.(2) # C-L 001-210375-001 channel.

 qty.(4) # C-L 001-210375-003 channel.

 qty.(256) # AD42-H USM Blind Rivets.

 qty.(22) # CR3243-4-1 Cherry Max Blind Rivets.
 - qty.(250) # AD42-h DSM Blind Rivets. qty.(22) # CR3243-4-1 Cherry Max Blind Rivets. 4.) Installed in accordance with S.T.C. # SA4443NM and instructions provided on Lake Aero Styling and Repair Drawing List Report # 100.
 - 5.) Weight & Balance Change:

+2.5#@ + 177" 443, Moment (Tailroot Fairing).

+3.5#@ + 90" 274.5 Moment (Flap Gap Seals).

New Empty Weight - 1,603#.

E.W.C.G. - +45.03".

Useful Load 972#.

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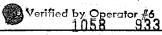
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Weight and balance based on previous Form # 337 dated 5/10/73. All work done in accordance with S.T.C. instructions, EA-AC 43.13 - 1A & 2A, and current Federal Aviation Regulations.

_ E N D

JAN 3 3 46 PH '85
FAA FSDO-61
TETE-BORO, NJ

ADDITIONAL SHEETS ARE ATTACHED





57 Arm 201966

Form Approved. Budget Bureau No. 04-R058.2

FEDERAL AVIATION AGENCY

INSTRUCTIONS: Print or type. these are for FAA use only. thorized FAA Representative. use reverse side.

Do not write in shaded areas Submit original only to an au If additional space is required APPLICATION FOR AIRWORTHINESS CERTIFICATE (FAR 21) REGISTRATION MARK 2. AIRCRAFT MAKE 3. AIRCRAFT MODEL DESIGNATION 7020 Mooney M-20C N953MA 5. ENGINE MAKE 6. ENGINE MODEL DESIGNATION 3372 Lycoming 0-360-A1D, 7. NO. OF ENGINES PROPELLER MAKE 9. PROPELLER MODEL DESIGNATION One Hartzell HC-C2YK-1B/7666A-2 /19*/*66 APPLICATION IS HEREBY MADE FOR: 3 X ORIGINAL CERTIFICATE—AIRCRAFT IS X MEW USED IMPORT AMENDMENT OR MODIFICATION OF CURRENT CERTIFICATE REQUESTED 5 OTHER (Specify) B. AIRWORTHINESS CLASSIFICATION (For multiple certification, check appropriate items) X NORMAL X STANDARD (Indicate category) ACROBATIC TRANSPORT CERTIFICATION AGRICULTURE & PEST CONTROL 2 AERIAL SURVEYING 3 AERIAL ADVERTISING 1 RESTRICTED
(Indicate operation(s)
to be conducted) FOREST (Wild life conservation) 3 4 5 6 PATROLLING WEATHER CONTROL 0 OTHER (Specify) EXPERIMENTAL
(Indicate operation(s)
to be conducted) 1 RESEARCH AND DEVELOPMENT 2 AMATEUR BUILT 3 EXHIBITION 4 RACING 0 TO SHOW COMPLIANCE WITH FAR PROVISIONAL (Indicate class) FAA CODING 1 CLASS I 2 CLASS II A. REGISTERED OWNER (As shown on Certificate of Aircraft Registration) IF DEALER CHECK HERE -> DORESS (Number: street, city, State and ZIP code) Mooney Aircraft, Inc. Box 72; Kerrville, Texas 78028 AIRCRAFT CERTIFICATION BASIS CERTIFICATION AIRCRAFT SPECIFICATION OR TYPE CERTIFICATION DATA SHEET (Gire No. and Rev. No.) 273 Days 11 HRWORTHINESS DIRECTIVE SUMMARY (Give year and last card No.) 2A3 Rev. 11 AIRCRAFT LISTING (Give page No(s.)) SUPPLEMENTAL TYPE CERTIFICATE (Give No(s.)) AIRCRAFT OPERATION AND MAINTENANCE RECORDS X AIRCRAFT NEW-NO PREVIOUS HISTORY TOTAL AIRFRAME HOURS RECORDED FAA CODING RECORDS MAINTAINED IN COMPLIANCE WITH FAR 91.173 I hereby certify that a m he registered owner (or his agent) of the aircraft described above; that the aircraft is registered with the Federal Aviation Agency in accordance with section 501 of the Federal Aviation Act of 1958, and applicable Federal Aviation Regulations; and that the aircraft has been inspected and is airworthy and elligible for the classification(s) requested.

TE OF APPLICATION

NAME AND TITLE (Print or type)

SIGNATURE DATE OF APPLICATION E.B. Hunnicutt (Treasurer) 4-6-66 IN ACCORDANCE WITH FAR 21.183, THE AIRCRAFT DESCRIBED ABOVE HAS BEEN INSPECTED AND FOUND AIRWORTHY BY: CERTIFICATED MECHANIC (IA) CERTIFICATED DOMESTIC REPAIR STATION (Give Certificate No.) CERTIFICATED AIR CARRIER (Give Certificate No.) 3 6 2 AIRCRAFT MANUFACTURER (Give name of firm) FAA CODING 5 SIGNATURE TITLE X G. THIS INSPECTION RECORDED IN AIRCRAFT RECORDS A. CURRENT OPERATING LIMITATIONS AVAILABLE IN AIRCRAFT H. STATEMENT OF CONFORMITY, FAA FORM 317 (Attach when required) B. CURRENT OPERATING LIMITATIONS ATTACHED I: PREVIOUS AIRWORTHINESS CERTIFICATE ISSUED IN ACCORDANCE WITH C. CURRENT APPROVED FLIGHT MANUAL AVAILABLE IN AIRCRAFT (Orig. attached) D. DATA, DRAWINGS, PHOTOGRAPHS, ETC. (Attach when required) J. AIRWORTHINESS CERTIFICATE ISSUED IN ACCORDANCE WITH X E. CURRENT WEIGHT & BALANCE INFORMATION AVAILABLE IN AIRCRAFT 21.183(a) F. MAJOR REPAIR AND ALTERATION, FAA FORM 337 (Attach when req.) FAR (Copy attached) X A. I have inspected the aircraft described above, find it conforms to its type certificate, and is in condition for safe operation. B. I have inspected the aircraft described above, find it is in condition for safe experimental operation. C. Current Airworthiness Certificate amended. DESIGNATION NO Mooney Aircraft, Inc. 4-6,-66 8W-EMDO-43 DOA SW-1 FAA Form 305 (6-65) OBSOLETE PREVIOUS EDITION



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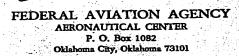
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Section 19

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FAA Form 1362 (7-65)		0052-0	040-8000 (B100)





Mar 29 1966

REFER TO: AC-354

Mooney Aircraft, Ins Kerrville, Texas Atta: Joe Schmerber

We have assigned registration marks N

aircraft

Mooney Model M20 C (Advise if not correct) which
is being acquired by

Macraire Aviation Corporation

Sincerely yours,

Lester G. Robinson, Chief
Aircraft Registration Branch
Data Services Division

N952MA to M-29C Serial # 3364 N953MA = 5 # #3372 N954MA = 5 #3379 N955MA = 73384

AC Form 1046 (1-65) Use previous edition.

FAA AC 85-B6



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		· •	Budget Bureau	No. 04-R060.1		
- INCOME	MAJOR REPAIR AND ALTERATION (Airframe, Powerplant, Propeller, or Appliance) STRUCTIONS: Print or type all entries. See FAR 43.9, FAR 43 Appendix B, and AC 43.9–1 (or subsequent instructions and disposition of this form. MAKE IRCRAFT SERIAL NO. MOTHEY NAME (As shown on registration certificate) NAME (As shown on registration certificate) NAME (As shown on registration certificate) 3. FOR FAA USE ONLY 4. UNIT IDENTIFICATION UNIT MAKE MODEL 4. UNIT IDENTIFICATION SERIAL NO. SERIAL			ICATION		
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2. OWNER		ADDRESS (As shown on registration cert	rificate)		
Ro			ox 2121 Newburg	h.N.Y.		
		S. FOR FAA USE UNLT				
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APPLIANCE						
1		CONFORMITY STATEMENT		<u> </u>		
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Hanne	y C.Brown	U.S. CERTIFICATED MECHANIC				
R.F.I	D.# 1 Box 258	CERTIFICATED REPAIR STATION MANUFACTURER	NIC IA28	0147		
D. I certify t	that the repair and/or alteration made to tts hereto have been made in accordance the information furnished herein is true a			n the reverse or tion Regulations		
ATE	accar is title	SIGNATURE OF AUTHORIZED		<u> </u>		

Oct. 28-69 7. APPROVAL FOR RETURN TO SERVICE Pursuant to the authority given persons specified below, the unit identified in item 4 was inspected in the manner prescribed by the Administrator of the Federal Aviation Agency and is. APPROVED REJECTED FAA FLT. STANDARDS OTHER (Specify) MANUFACTURER INSPECTION AUTHORIZATION ΒY CANADIAN DEPARTMENT OF TRANSPORT INSPECTOR OF AIRCRAFT FAA DESIGNEE REPAIR STATION DATE OF APPROVAL OR REJECTION CERTIFICATE OR DESIGNATION NO. SIGNATURE OF AUTHORIZED INDIVIDUAL Oct. 28-69 IA28147

FAA Form 337 (1-65) OBSOLETE PREVIOUS EDITION

70052-025-8000 (8320)

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

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

Repair right wing tip Install the following new parts 1 # 220000-148 tip skin 1 # 220000-146 skin 1 # 210047-504 rib

All work done in accordance to Mooney Specifacations

ADDITIONAL SHEETS ARE ATTACHED

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

INSTRUCTIONS: Print or type all entries. See EAR 43.9, FAR 45 Appeadix B, and AC 49.9-1 (or subsequent revision thereof) or instructions and disposition of this form. AMAGE		MAJO	EDERAL AVIATION R REPAIR AND DWerplant, Proj	A	ENCY LTERATION	JUN 23 t	Budg	Approved et Bureau No FOR FAA E IDENTIFIE	USE ONI	.Y
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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.

DESCRIPTION OF WORK ACCOMPLISHED (If more space is required traditionality and registration mark and date wo	nk completed.				
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D. I certi	fy that the repair nents hereto have at the information	and/or alteration m been made in accord furnished herein is	true and correct	to the best of my	Khouleage.	described of Federal Avi	on the reation Rea	verse or gulations		
DATE	4-18-66		SIGNATU Charli	RE OF AUTHORIZE	D INDIVIDUAL	Lle	gtst	_		
-			APPROVAL FOR R	FTURN TO SERVICE	~~~~					
Pursuant	to the authority gi	ven persons specified deral Aviation Agen	d below, the unit	identified in item	4 was inspected REJECTED	in the mar	ner prese	ribed by		
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FAA Form 337 (1-65) OBSOLETE PREVIOUS EDITION

0052-025-8000 (8320)

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. craft nationality and registration mark and date work completed.)

Installed 2 ea. Nanco MK-12A VGG-4 per Mooney dwg. # 810111-503
Installed Nanco VP-10 broadband a tenna per Mooney dwg. # 810020
Installed Nanco VP-10 broadband antenna on top of fuselage forward of ste.
59.0 where Nooney factory antenna is mounted, fuselage shin was reinforced with .050 alum. Iplae nivisted to shin and stringers.

Wit. and bal. computed and compass checked.
Total continious electrical load is 30.85 amps this is less than 80 % of generator capacity which is 50 amps.

Useful load 996 labs. E.W. 1579 Lba E.W.C.9. 45.0 aft.

ADDITIONAL SHEETS ARE ATTACHED

FAA AS 87 4091

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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.

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

Installed NARCO MBT-R marker beacon receiver.

- Entry made in aircraft equipment list to include this addition in equipment. MBT three light unit mounted in instrument panel in holes provided by Mooney. MBT remote unit receiver placed in glove box and secured to the side with a metal strap. Metal reinforcement put on opposite side of glove box. All cables tied securely behind instrument panel. Antenna mountedon bottom of fuselage, reinforced by existing aircraft stringers.
- Aircraft equipped with 50 amp generator. Total continuous electrical load is within 80% of generator capacity.
- New Empty Wt.15941bs. E.W.C.G. 44.8 Useful Load 981 Ibs.
- Compass swung with unit operating.

2 AMP CITCUIT BUR. SW. Main NARCO MBT-R current drain . Lamp Buss re eviloint Géra. national series of the series ADDITIONAL SHEETS ARE ATTACHED