

INSTALLED EQUIPMENT

ITEM	MANUFACTURER	MODEL	SERIAL NO.
ENGINE	Date: 7/ 3/17; N142MP, Mooney M20L, S/N: 26-0023, Tach Time & Total Time: 2450.8		
ENGINE	Complied with annual inspection. Drain oil, added 8 qts. W100 Plus Shell oil. Removed and replaced oil filter. Run up engine, leak check ok. Lubricate aircraft, clean fuel screens, service battery and brake reservoir. Ops & leak check ok. Jack aircraft, removed and replaced left and right brake pads per Mooney M20L MM, P/N/ APS 66-10500 (4 each). Repacked all wheel bearings, and cycled gear, ok. Cleaned and inspected induction filter, due on condition or TT 2727.4. ELT battery due change: 7-2018. Tested ELT per FAR 91.207D, next test due 6-2018. Complied with Monroy Aerospace Auxiliary Fuel Tanks' inspection per Monroy Inspection & Maintenance Manual, page 24. No defects noted. Complied with Garmin GNS-530, GNS-430, and GA56 (Antenna) Instructions for Continued Airworthiness (ICA). Reference FAA Form 337 dated 5-7-2002 and 5-31-2016. Complied with Garmin GDL-49 Instructions for Continued Airworthiness (ICA).		
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Jala Benlaw
INSPECTOR FOR

Rick Aviation, INC. CRS IVIR104F
Newport News, Virginia 23602

→ Cont


Time: 2449.5 W.O. # M12858

Installed new #1 Battery, G243, S/N:
G02867241. Serviced and installed new #2

Jala Benlaw
INSPECTOR FOR

Rick Aviation, INC. CRS IVIR104F
Newport News, Virginia 23602

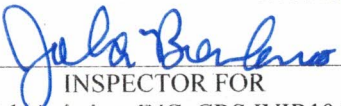
INSTALLED EQUIPMENT

ITEM	MANUFACTURER	MODEL	SERIAL NO.
ENGINE	<p>Date: 7/ 3/17; N142MP, Mooney M20L, S/N: 26-0023, Tach Time & Total Time: 2450.8</p> <p>Reference FAA Form 337 dated 11-8-2002. Complied with Garmin GTX-330 Instructions for Continued Airworthiness (ICA). Reference FAA Form 337 dated 1-10-2003. Complied with Sandel SN3308 Instructions for Continued Airworthiness (ICA). Reference Rick Aviation, Inc., Document Number M11688-B. Complied with Ryan International 9900 Series TCAD Instructional for Continued Airworthiness (ICA). Reference Rick Aviation, Inc., Document Number M11688-D. Complied with Vision Micro System VM1000/EC100 Engine Monitoring System Instructions for Continued Airworthiness (ICA). Reference FAA Form 337 dated 8-16-2005. Complied with Mod Works, Inc., Mooney M20L Continental IO-550N conversion Instructions for Continued Airworthiness (ICA). Reference Mod Works, Inc., ICA Document Number MW8800-508. Complied with Precise Flight, Inc., 2000 Series Speedbrake Instructions for Continued Airworthiness (ICA). Reference Precise Flight, Inc., ICA Document Number 08059. Complied with LASAR Nose Gear Truss Oversized Bushing Service Kit Instructions for Continued Airworthiness (ICA). Reference FAA Form 337 dated 8-16-2005. #1 alternator field circuit breaker pulled & collared and placard "Inop", per FAR 91.213, paragraph D, 3, ii. Due inspection next annual inspection.</p> <div style="text-align: right;">  INSPECTOR FOR Rick Aviation, INC. CRS IVIR104F Newport News, Virginia 23602 </div>		
ENGINE			
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PROPELLER			cont. →

Date: 7/ 3/17; N142MP, Mooney M20L, S/N: 26-0023, Tach Time & Total Time: 2450.8

#1 alternator sense circuit breaker pulled & collared and placard "Inop", per FAR 91.213, paragraph D, 3, ii. Due inspection next annual inspection. Placard instrument panel "ALT 1 Field & Sense Deactivated". Aircell system circuit breaker pulled & collared and placard "Inop", per FAR 91.213, paragraph D, 3, ii. Due inspection next annual inspection. Instrument panel previously placard "Aircell Deactivated". Removed and replaced left hand aft nav light and lens, P/N: 34-0228030-34, and P/N: 684250066-30. System ground checked satisfactorily. Complied with AD2014-05-29, N/A by type cylinders, factory TCM engine 8-16-05, cylinders not Superior Air Parts. Installed new aluminized fabric, P/N: 1081 heatshield on alternate airduct and naca duct to muffler shroud with new band clamps, P/N: JS 244 (5 each) and new adel clamps, P/N: MS21919DG 50 (2 each) and MS21919WDG40 (3 each) to mount. AD2016-16-12, N/A by factory cylinders installed not ECI

W.O. #M12904


INSPECTOR FOR

Rick Aviation, INC. CRS IVIR104F
Newport News, Virginia 23602

CONT →

10-18-2017
N 142MP
TACH 2464.5

DATE

DESCRIPTION OF ALTERATION

7-3-17



FORM RAI-12

7-3-17 2450.8 495.2 495.2 M12904
DATE: A/C TT: ENG TT: PROP TT: W.O. #

I CERTIFY THAT THIS (AIRCRAFT, ENGINE, PROPELLOR, OR APPLIANCE) HAS
BEEN INSPECTED IN ACCORDANCE WITH A ANNUAL INSPECTION AND
WAS DETERMINED TO BE AIRWORTHY AND APPROVED FOR RETURN TO
SERVICE.

INSPECTOR FOR

RICK AVIATION, INC. CRS#IMR104F

NEWPORT NEWS, VA

Date: 10/19/2017; Mooney M201 n 142MP, S/N: 26-023; Tach Time 2464.5 W.O. # A5795

Remove King KI254 Flight Command Indication S/N 108. — Install Castle Berry 504-0027-90504
S/N 214F06999 Flight Direction. Run up Aircraft OPS & function ok. See attached 8130-3.

Johs Benlano
INSPECTOR FOR
RICK AVIATION, INC. CRS#MR104F
NEWPORT NEWS, VA

[illegible]

PLATINUM
Aviation



ACTT

Replaced #1 Battery Gill G243 S/N- G02963006 .Ran up and checked charging system and found with in limits.Work done in accordance with Mooney MM.


A&P 3370952

LIFE LIMITED PARTS OR OVERHAUL REQUIREMENTS

NAME OF PART	PART NUMBER	SERIAL NUMBER	INSTALLATION DATE/HOURS	TIME ON PART AT INSTALL.	LIFE LIMIT OR T.B.O.	REMOVAL DATE/HOURS	AGENCY CERT. NO.

Date: 12/21/17, N142MP, Mooney M20L, S/N: 26-0023, Tach Time: 2476.8 W.O. # M13012

- 1) #1 Battery not charging: Troubleshoot charging system, found one of the three trickle charging 10 amp slow blow fuses bad. Removed and replaced fuse per Mooney M20L maintenance manual. Performed lengthy engine runs, charging system ops check good.
- 2) Fuel leak right wing at inboard transmitter, cross over tube and signs of a leak upper aft inboard corner of tank (visible stains on wing spar): Removed co-pilots seat and side panel at cabin door. Removed fuel transmitter and fuel tank cross over tube and attach adapter attach. Removed bottom right tank access panel. Seal top of inboard rib with, P/N: PR1422B1-2 sealant, cured for 96 hours. Top coat with, P/N: PR1005LPT. Close bottom access panel using, P/N: CS3330B1-2 sealant. Installed transmitter with new gasket, P/N: 462-021 and new 2535 insulators. Installed new gasket, P/N: 610261-003 at cross feed tube attach point at tank; installed six inches, P/N: MILDTL 6000D12 hose at crossover interconnect tubes from right tank. Fuel right tank let stand for 48 hours. No leaks noted. Work performed per Mooney maintenance manual 14, chapter 28-6.7.8.9 & 10 and chapter 28-42-00 page 12 screws torque.
- 3) Left hand side air gasper duct deteriorated. Not supplying air flow to gasper: Found scat tube deteriorated in several places. Removed and replaced scat tube, P/N: Scat 5, per Mooney M20L maintenance manual. Ops check good.


INSPECTOR FOR

Rick Aviation, INC. CRS IVIR104F
Newport News, Virginia 23602

(41-79)C-9C10

[illegible]

AIRW

Form RAI-6G

RECORD

A.D./BULL.
NUMBER

8-2-2018

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500

100

150

200

300

400

600

RICK AVIATION, INC.

CRS# IVIR104F

ATC TRANSPONDER TEST

MODE \$

MODE \$ ADDRESS: 501254775

DATE: 8-2-2018

WORK ORDER: A5822

N#: 142MP

AIRCRAFT MAKE & MODEL:

MOONEY M20L

AIRCRAFT OWNER:

EBBY HALL

TRANSPONDER MAKE & MODEL: GARMIN GTX330

S/N: 84100823

MODE A CODES:

MODE C CODES:

TRANSMITT FREQUENCY:

(1090 MHZ +/- 3 MHZ)

1090

TRANSMITT POWER:

See FAR 43 Appendix F(d) 225

RECEIVER SENSITIVITY

(-73 dbm +/- 4 dbm) *LESS THAN 1 dbm DIFFERENCE*

MODE A:

-74

MODE C:

-74

SLS OPERATION:

✓

IDENT OPERATION:

✓

FRAMING PULSES :

✓

INTERROGATION WINDOWS:

(Pulse Spacing)

(Decoder Limits)

✓

8000

+10

60

X

X

XX

✓

10000

-10

80

30

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80

✓

12000

-15

90

X

X

XX

✓

14000

-25

100

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X

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16000

-35

110

X

X

XX

✓

12MP

12500.1

Ft

Hg

Tolerance

+/- 125

+/- 125

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INSPECTOR FOR

RICK AVIATION, INC. CRS#IVIR104F

NEWPORT NEWS, VA

W.O.#

A5822

N 142 m P

A) Jula Burlino
INSPECTOR FOR

Rick Aviation, INC. CRS IVIR104F
Newport News, Virginia 23602

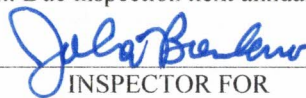
AIRWORTHINESS DIRECTIVE / FACTORY BULLETIN COMPLIANCE RECORD

N142MP

A.D./BULL. NUMBER	ITEM AFFECTED	DATE & HRS. AT COMP.	METHOD OF COMPLIANCE	TYPE OF A.D. 1 TIME/RECUR.	NEXT COMP. DATE/HRS./CYCLE	AUTHORIZED SIGNATURE CERTIFICATE NO.

Date: 8/ 3/18; N142MP, Mooney M20L, S/N: 26-0023, Tach Time & Total Time: 2500.1

Reference FAA Form 337 dated 11-8-2002. Complied with Garmin GTX-330 Instructions for Continued Airworthiness (ICA). Reference FAA Form 337 dated 1-10-2003. Complied with Sandel SN3308 Instructions for Continued Airworthiness (ICA). Reference Rick Aviation, Inc., Document Number M11688-B. Complied with Ryan International 9900 Series TCAD Instructional for Continued Airworthiness (ICA). Reference Rick Aviation, Inc., Document Number M11688-D. Complied with Vision Micro System VM1000/EC100 Engine Monitoring System Instructions for Continued Airworthiness (ICA). Reference FAA Form 337 dated 8-16-2005. Complied with Mod Works, Inc., Mooney M20L Continental IO-550N conversion Instructions for Continued Airworthiness (ICA). Reference Mod Works, Inc., ICA Document Number MW8800-508. Complied with Precise Flight, Inc., 2000 Series Speedbrake Instructions for Continued Airworthiness (ICA). Reference Precise Flight, Inc., ICA Document Number 08059. Complied with LASAR Nose Gear Truss Oversized Bushing Service Kit Instructions for Continued Airworthiness (ICA). Reference FAA Form 337 dated 8-16-2005. #1 alternator field circuit breaker pulled & collared and placard "Inop", per FAR 91.213, paragraph D, 3, ii. Due inspection next annual inspection.


INSPECTOR FOR

Rick Aviation, INC. CRS IVIR104F
Newport News, Virginia 23602

N142mp

[illegible]

that his/her airworthiness
l'installateur s'assure que
les installations by the user/installer
soit délivrée conformément aux

FORM RAI-12

7500.1 544.5 544.5 m38

VC IT ENG IT PROP IT W.O.

THIS [AIRCRAFT, ENGINE, PROPELLOR, OR APPLIANCE] HAS
BEEN INSPECTED IN ACCORDANCE WITH A Visual INSPECTION AND
DETERMINED TO BE AIRWORTHY AND APPROVED FOR RETURN TO

Jola Bulawa

INSPECTOR FOR

RICK AVIATION, INC. CRS #MR104F

NEWPORT NEWS, VA

N 142 mP

SERVIC

AIRWORTHINESS DIRECTIVE / FACTORY BULLETIN COMPLIANCE RECORD

A.D./BULL. NUMBER	ITEM AFFECTED	DATE & HRS. AT COMP.	METHOD OF COMPLIANCE	TYPE OF A.D. 1 TIME/RECUR.	NEXT COMP. DATE/HRS./CYCLE	AUTHORIZED SIGNATURE CERTIFICATE NO.

Date: 4/ 24/19; N142MP, Mooney M20L, S/N: 26-0023, Tach Time & Total Time: 2526.1 W.O. # M13323

Right wing tip nav lens cracked and wing tip aft of lens has fiberglass cracks. Removed lens and repaired fiberglass with resin and fiberglass cloth. Sand and finish fiberglass repair and paint wingtip. Fit and installed new nav wing tip lens, P/N: L020-210384-002. Ops check nav lights and strobe ok. Pilot reports right wing drops on takeoff. Removed belly panels. Found bell crank assembly for rudder and aileron springs weak and elongated. Removed springs and installed new forward and aft springs, P/N: 110003-007 at bell crank assembly. Check length of forward and aft springs. Adjusted aileron stop assembly on left aileron tube assembly for spring length. Work done per Mooney Service and Maintenance Manual M20L chapter 27, paragraph 27-60-00, aileron/rudder interconnect system. Reinstalled belly panels. Removed rudder locks and aileron lock, checked aileron, rudder and nose wheel travel per Mooney Maintenance Manual, ground checked satisfactorily.


Jale Bomlar
INSPECTOR FOR

Rick Aviation, INC. CRS IVIR104F
Newport News, Virginia 23602

N142MP

Jala Bonlano
INSPECTOR FOR

F.A.R. 91.411 *Ni42mP*


INSPECTOR FOR
Rick Aviation, INC. CRS IVIR104F
Newport News, Virginia 23602

ALTIMETER & STATIC SYSTEM CHECKS

F.A.R. 91.411

N142MP

DATE	MANUFACTURER	MODEL	SERIAL NO.	LOCATION	MAX. ALT.	RECHECK REQUIRED	APPROVED BY: AGENCY CERT. NO.

Date: 8/22 /19; N142MP, Mooney M20L, S/N: 26-0023, Tach Time & Total Time: 2545.1

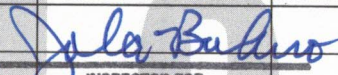
#1 alternator sense circuit breaker pulled & collared and placard "Inop", per FAR 91.213, paragraph D, 3, ii. Due inspection next annual inspection. Placard instrument panel "ALT 1 Field & Sense Deactivated".
Aircell system circuit breaker pulled & collared and placard "Inop", per FAR 91.213, paragraph D, 3, ii. Due inspection next annual inspection. Instrument panel previously placard "Aircell Deactivated".
Complied with AD2014-05-29, N/A by type cylinders, factory TCM engine 8-16-05, cylinders not Superior Air Parts. AD2016-16-12, N/A by factory cylinders installed not ECI.

W.O. #M13419


INSPECTOR FOR

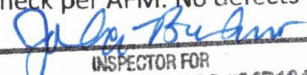
Rick Aviation, INC. CRS IVIR104F
Newport News, Virginia 23602

RADIO & ELECTRONIC CHECKS

DATE	TOTAL TIME	EQUIPMENT CHECKED	TYPE OF CHECK	ERROR OR RESULTS	NEXT CHECK DUE	CHECKED BY: SIGNATURE — CERT. NO.
						N142MP
FORM RAI-12						
8-22-19 2545.1 589.6 589.6 M13419 DATE _____ A/C TT _____ ENG TT _____ PROP TT _____ W.D. # _____						
I CERTIFY THAT THIS (AIRCRAFT, ENGINE, PROPELLOR, OR APPLIANCE) HAS BEEN INSPECTED IN ACCORDANCE WITH A <u>Annual</u> INSPECTION AND WAS DETERMINED TO BE AIRWORTHY AND APPROVED FOR RETURN TO SERVICE.						
 INSPECTOR FOR RICK AVIATION, INC. CRS#MR104F NEWPORT NEWS, VA						

9-17-19 N142MP M20L S/N: 26-023 Tach 2545.1 WOM13431

Removed prop. Installed prop after reindexing with new nuts and lubricate supplied by Sensenich.
 Lubricated studs and nuts, prop indexed per Mooney Maintenance Manual, Chapter 61-00-20, page 7.
 Torque prop to 50 ft lbs per McCauley instructions. Run up ops and leak check per AFM. No defects noted.


 INSPECTOR FOR
RICK AVIATION, INC. CRS#MR104F
 NEWPORT NEWS, VA

RADIO & ELECTRONIC CHECKS

SPARKCHASERS

-----Aircraft Services, Inc.-----

AIRFRAME LOGBOOK ENTRY

TACH TIME: 2546.3

HOBBS: 0029.8

A/C REG. #: N142MP

AC MAKE: Mooney

AC MODEL: M20L

AC S/N: 26-0023

Date: October 17, 2019

Removed the following equipment: 1 ea. Garmin GTX330 Transponder at 12.5 in.; 1 ea. Transponder Coupler at 8.0 in. 1 ea. Ryan 9900 Display at 10.0 in. and 1 ea. Ryan 9900 Processor at 124.0 in. **Installed the following equipment:** 1 ea. Garmin GTX 345 Transponder PN: 011-03302-00 SN: 3EG030010 at 12.5 in. The above Garmin GTX 345 Transponder System with ADS-B Out and In functionality was installed in accordance with Garmin **STC# SA01714WI** and the Garmin GTX 3XX Part 23 AML STC Installation Manual # 190-00734-10, Rev 13, dated September, 2019. The above ADS-B System meets the equipment requirements of 14 Code of Federal Regulations (CFR) 91.227 and utilizes the previously installed Garmin GNS530W System for position source. At the time of the above installation, the software versions for the Garmin GTX345: Main = 2.52, ADSB-In = 3.12. Transponder and altitude reporter checked through altitude operating envelope of aircraft and found to meet the requirements of FAR Part 43, Appendix E(c). This Mode S Transponder system was certified in accordance with FAR 91.413. The static system integrity was verified upon completion of above installation. Instructions for Continued Airworthiness: The Garmin GTX 345 **Instructions for Continued Airworthiness** are listed on page 4-1 through 4-6 of the GTX 33X and GTX3X5 ADS-B Maintenance Manual (Garmin Document # 190-00734-11, Rev. 7, dated September, 2019). A copy of this ICA was placed in the permanent aircraft records. The **FAA Approved Supplemental Flight Manual** for the Garmin GTX 345 (Garmin Document # 190-00734-15, Rev. 4) has been placed in the Pilot's Operating Handbook. The aircraft Weight & Balance and Supplemental Equipment Listing has been revised to reflect the above installation. All inspection records and other documents pertaining to this major alteration are on file at Sparkchasers Aircraft Services Inc., 3223-C Swift Creek Road, Smithfield, NC 27577 under Work Order # 10-21012 (104290), dated 07/29/19.

Signed *Ally Way Doul* for
Sparkchasers Aircraft Services, Inc.
FAA CRS# XSPR699K

RADIO & ELECTRONIC CHECKS

DATE

NEXT CHECK

CHECKED BY:

NO.



Barrier Island Aviation, Ltd.

N142MP 9-10-20-20 Tach: 2562.3

Installed attitude gyro after overhaul at Castleberry Instruments p/n 504-0027-90504 s/n 214F06999. Ops check good.

Andy Rosman 3524208A&P

22

DATE

TOTAL
TIME

FORM

THE ALTIMETER, ST
PRESSURE ALTITUDE
HAS BEEN TESTED A
ON 10-5-2 TO
IN PER 91.411 AND
WITH FAR PART 43

INSPECTION
RICK AVIATION, INC.
NEWPORT

Form RAI-6G

RICK AVIATION, INC.

CRS# IVIR104F

ATC TRANSPONDER TEST

DATE: 10-8-2020 WORK ORDER: AS939 N#: NK/ZMP

AIRCRAFT MAKE & MODEL: Mooney M20L

AIRCRAFT OWNER: Edward Hall

TRANSPONDER MAKE & MODEL: Cessna 345 S/N: 3EG630010

MODE A CODES:

MODE C CODES:

TRANSMITT FREQUENCY:
(1090 MHZ +/- 3 MHZ) 108.73TRANSMITT POWER:
See FAR 43 Appendix F(d) ✓

RECEIVER SENSITIVITY

(-73 dbm +/- 4 dbm) *LESS THAN 1 dbm DIFFERENCE*

MODE A: ✓

MODE C: ✓

SLS OPERATION: ✓

IDENT OPERATION: ✓

FRAMING PULSES :
(Pulse Spacing) ✓INTERROGATION-WINDOWS:
(Decoder Limits) ✓

Verify transponder manufacturers specifications for make and model.

Set up test equipment per manufacturer's instructions.

25000	150	155	120	125
25000		155	120	+/- 125
30000		180	140	+/- 125
35000		205	160	+/- 125
40000		230	X X XX	+/- 125
45000		255	X X XX	+/- 125
50000		280	250	+/- 125

PRI		SEC	Pressure Altitude Difference		
Case Leak 18K Ft.	65				
Hysteresis:		Error	Inflg.	Alt. Diff	Real Alt
Check Point (50%)	9950	+/- 75 Ft.	28.10	-1725	-1910
			28.5	-1340	-1525
Check Point (40%)	7950	+/- 75 Ft.	29.00	-863	-1000
			29.50	-392	-529
After effect error	15	+/- 30 Ft.	29.92	0	-171
			30.50	+531	+350
Static System	60	Fpm +/-100	30.90	+893	+720
Leak rate			30.99	+974	+800

Form: RAI-6F

CHECKED BY:
SIGNATURE — CERT. NO.

CHECKED

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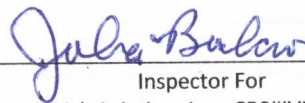
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RADIO & ELECTRONIC CHECKS

DATE	TOTAL TIME	EQUIPMENT CHECKED	TYPE OF CHECK	ERROR OR RESULTS	NEXT CHECK DUE	CHECKED BY: SIGNATURE — CERT. NO.

Date: 10-06-2020; N142MP, Mooney M201L, S/N: 26-0023, Tach Time & Total Time: 2563.0

Complied with annual inspection. Drain oil, added 8 qts W100 Plus Shell oil. Removed and replaced oil filter. Run up engine, leak check ok. Lubricate aircraft, clean fuel screen, service battery and brake reservoir. Ops & leak check ok. Jack aircraft, repacked all wheel bearings, and cycled gear, ok. Cleaned and inspected induction filter, due on condition or TT 3000.1. Install new ELT Battery Due 11-022, test ELT per 91.207D Due. 9-2021. Install new strobe bulb right, ops check ok. Removed and install a new nose wheel tire per Mooney M20L maintenance manual. Serviced tire to 50 psi. Removed, cleaned and repacked nose wheel bearings. Install wheel bearings. Removed and installed a new left main tire per Mooney M20L maintenance manual. Serviced tire to 42 psi. Removed, cleaned and repacked, installed wheel bearings. Removed brake caliper. Replaced piston "O" ring. Removed and replaced brake pads. Installed caliper and brake pads. Bleed brakes, ops check good. Complied with Monroy Aerospace fuel tanks, inspection per Monroy Aerospace manual page 24. No defects noted. Complied with Garmin GNS530, GNS430 and GA56 (antenna). Instructions for continued airworthiness (ICA). Reference FAA form 337 Dated: 5-7-2002 and 5-31-2016. Complied with Garmin GDL49 instructions for continued airworthiness (ICA). Reference FAA form 337 Dated: 11-8-2002. Complied with Garmin GTX330 instruction for continued airworthiness (ICA). Reference FAA form 337 Dated; 1-10-2003. Complied with sandel SN3308 instructions for continued airworthiness (ICA). Reference RAI document number M11688-B.



Inspector For
Rick Aviation, Inc. CRS#IVR104F
Newport News, VA

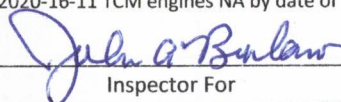
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RADIO & ELECTRONIC CHECKS

DATE	TOTAL TIME	EQUIPMENT CHECKED	TYPE OF CHECK	ERROR OR RESULTS	NEXT CHECK DUE	CHECKED BY: SIGNATURE — CERT. NO.
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Date: 10-06-2020; N142MP, Mooney M201L, S/N: 26-0023, Tach Time & Total Time: 2563.0

Complied with Ryan international 9900 series TCAD instructions for continued airworthiness (ICA). Reference RAI document number M11688-D. Complied with vision micro system VM 1000/EC 100 engine monitoring system instructions for continued airworthiness (ICA). Reference FAA form 337 Dated: 8-16-2005. Complied with Mod Works Inc Mooney M20L continental + 0-550N conversion instructions for continued airworthiness (ICA). Reference Mod Works Inc. ICA document MW8800-508. Complied with Precise Flight Inc. 2000 series speed brake instructions for continued airworthiness (ICA). Reference Precise Flight Inc. ICA document 08059. Complied with Lasar Nose Gear Trust oversized bushing service kit instructions for continued airworthiness (ICA). Reference FAA form 337 Dated: 8-16-2005. Verified #1 alternator field circuit breaker pulled and collard and placard inop per FAR 91.213 paragraph D 3 ii – Note: Due at annual inspections. Verified #1 alternator sense circuit breaker pulled and collard and placard inop per FAR 91.213 paragraph D 3 ii. Confirmed placard on instrument panel “alt 1 field & sense deactivated”. Note: Due at annual inspections. Verified Aircell System circuit breaker pulled and collard and placard inop per FAR 91.213 paragrapg D, 3ii. Instrument panel previously placard “Aircell Deactivated”. Note: Due at annual inspections. Service Gill G243 Battery and change using Gill charger. Install Battery and run-up aircraft and Ops check Battery ok S/N: G03083790 Battery. DA 2020-16-11 TCM engines NA by date of engine new manufacture 08-31-2003.

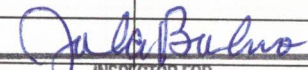

Inspector For

Rick Aviation, Inc. CRS#IVR104F
Newport News, VA

FORM RAI-12

10-6-2020 2563 607.7 607.7 W.O. # M13634
DATE: ACFT: ENGT: PROPT: W.O. #

I CERTIFY THAT THIS (AIRCRAFT, ENGINE, PROPELLOR, OR APPLIANCE) HAS
BEEN INSPECTED IN ACCORDANCE WITH A Annual INSPECTION AND
WAS DETERMINED TO BE AIRWORTHY AND APPROVED FOR RETURN TO
SERVICE


INSPECTOR FOR
RICK AVIATION, INC. CRS#IVR104F
NEWPORT NEWS, VA

RADIO & ELECTRONIC CHECKS

DATE	TOTAL	EQUIPMENT	TYPE OF	ERROR OR	NEXT CHECK	CHECKED BY:	F. NO.
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Reg#: N421MP

Date: 10-29-2021

Manufacturer: Mooney

WFC-Maintenance, LLC.

Hobbs:

Model: M20L

Williamsburg, VA 23185

Tach: 2578.1

S/N: 26-0023

TTAF: 2578.1

Complied with Lasar Nose Gear Truss oversize busing service kit instructions for continued airworthiness as per Maintenance instructions by checking for proper torque of torque pivot bolt. Referenced FAA form 337. Complied with Ryan International 9900 series TCAD instructions for continued airworthiness. Checked mounting rack for security. Checked 9900 series TCAD for security in the mounting rack, and inspected the wiring and connectors for security, corrosion and chaffing. Reference document no. 11688-D. Complied with Precise Flight Inc. 2000 series speed brake instructions for continued airworthiness. Reference Precise Flight ICA document 8059 Rev. B dated 03/19/2001. Complied with VM1000/EC 100 engine monitoring system instructions for continued airworthiness referencing FAA form 337 dated 8/16/05. Verified #1 Alternator field circuit breaker pulled and collar and placard inop per FAR 91.213 para D(3)(ii). Due at annual inspection. Verified #1 alternator sense circuit breaker pulled and collar and placard inop per FAR 91.213 para D(3)(ii). Due at annual inspection. Verified Aircell System circuit breaker pulled and collar and placard inop per FAR 91.213 par D(3)(ii). Due at annual inspection. Complied with Monroy Aerospace fuel tanks inspection as noted on page 24 of the installation instruction manual dated 12/20/94. Complied with Garmin GNS530, GNS430 and GA56 antenna instructions for continued airworthiness referencing FAA form 337 dated 5/7/2002 and 5/31/2016. Complied with Garmin GDL49 instructions for continued airworthiness referencing FAA form 337 datd 11/8/2002. Complied with Garmin GTX330 instructions for continued airworthiness referencing FAA form 337 dated 1/10/2003. Complied with Sandel SN3308 instructions for continued airworthiness referencing RAI document M11688-B dated 1/29/2013. Replaced throttle microswitch

CONTINUED NEXT PAGE →

RADIO & ELECTRONIC CHECKS

CONTINUED FROM PREVIOUS PAGE

BY:
CERT. NO.

lever arm and repaired broken throttle bracket (work performed by Jim McGill AP 3686429). Lubricated aircraft in accordance with Mooney service manual. Cleaned induction air filter. Due on condition or TT 3000.1.

Inspected ELT in accordance with FAR 91.207(d). Battery due date November 2022.

I certify this aircraft has been inspected in accordance with an Annual inspection and is determined to be in airworthy condition.

Kenneth Panissidi



AP 3022381 IA

Reg#: N421MP



Date: 02-24-2022

Manufacturer: Mooney

WFC-Maintenance, LLC.

Hobbs:

Model: M20L

Williamsburg, VA 23185

Tach: 2603.4

S/N: 26-0023

TTAF: 2603.4

Removed LH outer and LH inner Main Gear Doors and RH inner Main Gear Door for treating, prime, and paint, reinstalled gear doors after paint application. Treated primed and painted inbd side of RH wing leading edge. Installed customer supplied Baggage Door Seal p/n: 912018-501. Installed new Main Gear Shock Discs on RH and LH Main Gears (8 each p/n 07-01127). All secure, return to service.

James McGill



A&P 3686429

RADIO & ELECTRONIC CHECKS

TYPE OF CHECK

ERROR OR RESULTS

**NEXT CHECK
DUE**

CHECKED BY:
SIGNATURE — CERT. NO.

Manufacturer: MOONEY



SPARKCHASERS
AIRCRAFT SERVICES

Part/Model No: M20L

Work Order No: 10-21998

TACH: 2,607.30

HOBBS:

A/C Total Time:

Aircraft Serial No: 26-0023

Date: 05/10/2022

Removed GNS430 (PN:011-00280-10) (SN:97109147) and sent to Garmin International for repair. Unit was overhauled under work order: RMA-150184178. Re-installed returned GNS430W (PN:011-00280-10) (SN:97109147). All work performed IAW Garmin GNS 400 series installation manual 190-00140-02 Rev T dated May 01, 2010. Performed Operational test IAW Install Manual. All tests and inspections completed and passed.

THE AIRCRAFT, AIRFRAME, ENGINE, PROPELLER, OR APPLIANCE IDENTIFIED ABOVE WAS REPAIRED AND/OR INSPECTED IN ACCORDANCE WITH AND CURRENT MAINTENANCE RULES OF THE FEDERAL AVIATION REGULATIONS AND IS APPROVED WITH RESPECT TO WORK PERFORMED AT THIS TIME IN RETURN TO SERVICE.

Pertinent details of maintenance are held in this Repair Station under Work Order No 10-21998 dated . 05/10/2022

Date: 05/10/2022

Signature:

Work Order: 10-21998

Certified Repair Station Number: XSPR699K

MAINTENANCE RECORD

F.A.R. 43.9

DESCRIPTION OF WORK PERFORMED
OR APPROVED DATA USED

AGENCY & CERTIFICATE NO.
WORK PERFORMED

RVICE

Registration #: N142MP
Manufacturer: MOONEY

Part/Model No: M20L

Work Order No: 10-21998



SPARKCHASERS
— AIRCRAFT SERVICES —

TACH: 2,607.30

HOBBS:

A/C Total Time:

Aircraft Serial No: 26-0023

Date: 05/10/2022

- ☐ Removed the following Equipment: 1 ea Apollo MX20 Multi-Function Display (PN: 430-0270-500), 1 ea Sandel SN3308 Electronic HSI (PN: SN3308-00-BL), 1 ea Aircell Guardian 1000 (PN: 400-10445-001), 1 ea Avionics Innovations A1-CD (PN: 14001-00), 1 ea Bendix-King KG 102A Directional Gyro (PN: 060-0015-00), and 1 ea Advanced Electronics RSU 21 Relay Unit

Installed the following Equipment: 1 ea Garmin Flight-Stream 210 (PN: 011-03257-40) (SN: 3RE010073), 1 ea Garmin GMU 11 (PN: 011-04349-01) (SN: 56J105100), 1 ea Garmin GI-275 ADI (PN: 011-04489-20) (SN: 5MZ202354), 1 ea Garmin GI-275 Battery (PN: 011-04528-00) (SN: 5MZ608637)

Installed Garmin GI 275 ADAHRS+AP (PN: 011-04489-20) (SN: 5MZ202354) with GI275 battery (PN: 011-04528-00) (SN: 5MZ608637) and GMU11 (PN: 011-04349-01) (SN: 56J105100) IAW Garmin Part 23 AML STC Installation manual 190-02246-10 REV.11. Performed Operational test IAW Install Manual. All tests and Inspections completed and passed. The GI-275 was certified to 20,000 feet in accordance with FAR Part 43, Appendix E.

- ☐ Installed Garmin Flight Stream 210 (PN:011-03257-40) (SN:3RE010073) IAW GNS 500W Series STC Installation Manual 190-00357-02 REV N, Garmin Part 23 AML STC Installation manual 190-00734-10 REV.15, and Flight Stream 110/210 TSO Installation Manual 190-01700-00 REV.H. Performed Operational test IAW Install Manual. All tests and Inspections completed and passed.

- ☐ Removed Vision Microsystems INC manifold pressure 15PSIA sensor (PN:3010015) (SN:121942) and installed new Vision Microsystems INC manifold pressure 15PSIA sensor (PN:3010015) (SN:125495). Performed run up test and found system to function normally. OPS check good.

THE AIRCRAFT, AIRFRAME, ENGINE, PROPELLER, OR APPLIANCE IDENTIFIED ABOVE WAS REPAIRED AND/OR INSPECTED IN ACCORDANCE WITH AND CURRENT MAINTENANCE RULES OF THE FEDERAL AVIATION REGULATIONS AND IS APPROVED WITH RESPECT TO WORK PERFORMED AT THIS TIME IN RETURN TO SERVICE.

Pertinent details of maintenance are held in this Repair Station under Work Order No 10-21998 dated . 05/10/2022

Date: 05/10/2022

Signature:

[Handwritten Signature]

Work Order: 10-21998

Certified Repair Station Number: XSPR699K

F.A.R. 43.9

AP3142798

MAINTENANCE RECORD

F.A.R. 43.9

DATE OF
COMPLETION

AIRCRAFT TIME
IN SERVICE

DESCRIPTION OF WORK PERFORMED
OR APPROVED DATA USED

AGENCY & CERTIFICATE NO.
WORK PERFORMED/RETURNED TO SERVICE

Reg#: N421MP

Manufacturer: Mooney

Model: M20L

S/N: 26-0023



Flight Center

WFC-Maintenance, LLC.

Williamsburg, VA 23185

Date: 08-18-2022

Hobbs:

Tach:

TTAF:

Replaced spinner support with new McCauley p/n C-6359 and shimmed with p/n B3410-32 shims.

Kenneth Panissidi

AP 3022381

Reg#: N421MP

Manufacturer: Mooney

Model: M20L

S/N: 26-0023



Flight Center

WFC-Maintenance, LLC.

Williamsburg, VA 23185

Date: 08-10-2022

Hobbs:

Tach: 2620.6

TTAF:


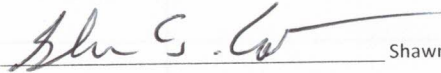
Spot painted leading edges of wings. Prepped bare metal areas with alodine and epoxy primer. Finish paint applied and blended.

Kenneth Panissidi

AP 3022381

MAINTENANCE RECORD

F.A.R. 43.9

DATE OF COMPLETION	AIRCRAFT TIME IN SERVICE	DESCRIPTION OF WORK PERFORMED OR APPROVED DATA USED	AGENCY & CERTIFICATE NO. WORK PERFORMED/RETURNED TO SERVICE
		 Flight Center	
	Reg#: N421MP		Date: 11-16-2022
	Manufacturer: Mooney	WFC-Maintenance, LLC.	Hobbs:
	Model: M20L	Williamsburg, VA 23185	Tach: 2638.7
	S/N: 26-0023		TTAF: 2638.7
	<p>Removed and cleaned leaking fuel tank panel from right wing inboard and resealed with Pro Seal P/S 890 B2 sealant (AMS-S-8802). Leak check satisfactory. Replaced ELT battery with BP-1020 Battery pack expires Nov. 2024. Serviced ships batteries with distilled water. Replaced O-ring p/n MS28775-224 on right brake piston. Resecured and torqued control rod end on propeller governor control at governor arm. Repaired crack in panel in left hand landing gear well. Oil pressure transducer leaking at fitting. Removed fitting, inspected, reinstalled to proper torque. Cleaned induction air filter. Due on condition or TT 3000.1. AD's checked through this date referenced AD Toolbox.</p>		
	<p>Inspected ELT model DM ELT 8.1 s/n 13639E in accordance with FAR 91.207(d). Battery due date November 2024.</p>		
	<p>I certify this airframe has been inspected IAW an annual inspection per CFR 43 appendix D and has been found to be in airworthy condition at this time.</p>		
			
	Shawn Cole AP3142798IA		

MAINTENANCE RECORD

F.A.R. 43.9

DATE OF
COMPLETION

AIRCRAFT TIME
IN SERVICE

DESCRIPTION OF WORK PERFORMED
OR APPROVED DATA USED

AGENCY & CERTIFICATE NO.
WORK PERFORMED/RETURNED TO SERVICE

DATE 6-18-23 AC HRS 2657.6 N 142 MD

THIS 5TX 345 TRANSPONDER S/N 3E9030010 HAS
BEEN TESTED AND FOUND TO BE IN COMPLIANCE WITH THE
REQUIREMENTS OF FAR 91.413(PART 43 APP F).

SIGNED

INSPECTOR

BAY AVIONICS, LTD. HM1R197K

MAINTENANCE RECORD

F.A.R. 43.9

DATE OF COMPLETION	AIRCRAFT TIME IN SERVICE	DESCRIPTION OF WORK PERFORMED OR APPROVED DATA USED	AGENCY & CERTIFICATE NO. WORK PERFORMED/RETURNED TO SERVICE
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DATE 07-10-2023 AC HRS 2659.2 N 142MP

I CERTIFY THAT THE ALTIMETER, ALTITUDE REPORTING AND STATIC
SYSTEM TESTS REQUIRED BY CFR 91.411 HAVE BEEN PERFORMED.

TESTS WERE PERFORMED TO 20,000 FT.

ALT. 07-10-2023 DATE

ENCODER 07-10-2023 DATE

STATIC SYSTEM 07-10-2023 DATE

THIS GTx 345 TRANSPONDER S/N 3EG030010
HAS BEEN TESTED AND FOUND TO BE IN COMPLIANCE WITH THE
REQUIREMENTS OF CFR 91.413(PART 43 APP F).

DATE 07-10-2023

SIGNED Ronald D Culpepper
INSPECTOR

BAY AVIONICS, LTD. HM1R197K

ALTIMETER TEST AND INSPECTION REPORT

BAY AVIONICS, LTD.
HMIR197K

Customer: <u>WTM Consulting LLC</u>		Work Order: <u>27447</u>
Aircraft N: <u>142MP</u>	Aircraft Make/Model: <u>MOONEY M20L</u>	Squawk Number:
PRELIMINARY INSPECTION FINDINGS: <u>OK</u>		
Inspection By: <u>Ronald W Culpepper Jr</u> Authorized Inspector		Date: <u>07-10-2023</u>

TABLE I

Altitude (feet)	Equivalent pressure (Inches of mercury)	Tolerance +/-	Altitude Error	Encoder Error (Tol +/- 125 ft.)
-1,000	31.018	20	-50	0
0	29.921	20	0	0
500	29.385	20	0	0
1,000	28.846	20	0	0
1,500	28.305	25	0	0
2,000	27.761	30	0	0
3,000	26.817	30	0	0
4,000	25.842	35	-10	0
6,000	23.978	40	-50	0
8,000	22.225	60	-30	0
10,000	20.577	80	-40	0
12,000	19.029	90	-60	0
14,000	17.577	100	-80	0
16,000	16.216	110	-60	0
18,000	14.942	120	-60	0
20,000	13.750	130	-60	0
22,000	12.636	140		
25,000	11.104	155		
30,000	8.885	180		
35,000	7.041	205		
40,000	5.538	230		
45,000	4.355	255		
50,000	3.425	280		

TABLE II - TEST TOLERANCES

Test	Tolerance (feet)
Case Leak Test	100
Hysteresis Test	
First Test Point (50 percent of maximum altitude)	75
Second Test Point (40 percent of maximum altitude)	75
After Effect Test	30

TABLE III - FRICTION

Altitude (feet)	Tolerance (feet)	Reading
1,000	70	20
2,000	70	20
3,000	70	20
5,000	70	20
10,000	80	20
15,000	90	20
20,000	100	40
25,000	120	
30,000	140	
35,000	160	
40,000	180	
50,000	250	

TABLE IV - PRESSURE - ALTITUDE DIFFERENCE
(Scale Error Test)

Pressure (Inches of Hg)	Altitude Difference (feet)	Result Tol +/- 25 ft.
28.10	-1,727	✓
28.50	-1,340	✓
29.00	-863	✓
29.50	-392	✓
29.92	0	✓
30.50	+531	✓
30.90	+893	✓
30.99	+974	✓

Notes: _____

Equipment Used for Inspection ALT-621-35 s/n 6210189

Calibration Date NOV 4 2022 Calibration Due Date NOV 4 2023

Final Inspection	
Signature: <u>Ronald W Culpepper Jr</u>	Date: <u>07-10-2023</u>

MAINTENANCE RECORD

F.A.R. 43.9

DATE OF COMPLETION	AIRCRAFT TIME IN SERVICE	DESCRIPTION OF WORK PERFORMED OR APPROVED DATA USED	AGENCY & CERTIFICATE NO. WORK PERFORMED/RETURNED TO SERVICE
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202 Airport Court, Hangar 3, Suffolk, VA 23434

WO 25277

HM1R197K (757) 488-7700

DATE: 8/2/2023

TACH READS

3222.0

TYPE: M20L

REG: N142MP

1. Removed GI 275 (s/n 5MZ202354) battery p/n 011-04528-00 s/n 5MZ608627 and installed new battery p/n 010-02304-00 s/n 5MZ615731. Tested battery in accordance with Section 5.12.5 of Maintenance manual 190-02246-11. Battery tested good.
2. This aircraft found to be airworthy with respect to the work performed under **Work Order #25277**.

Signed


Inspector, Bay Avionics LTD HM1R197K

MAINTENANCE RECORD

F.A.R. 43.9

DATE OF COMPLETION	AIRCRAFT TIME IN SERVICE	DESCRIPTION OF WORK PERFORMED OR APPROVED DATA USED	AGENCY & CERTIFICATE NO. WORK PERFORMED/RETURNED TO SERVICE
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Reg#: N421MP

Manufacturer: Mooney

Model: M20L

S/N: 26-0023



Flight Center

WFC-Maintenance, LLC.

Williamsburg, VA 23185

Date: 12-05-2023

Hobbs:

Tach: 2672.7

TTAF: 2672.7

Replaced induction air filter with new Donaldson p/n ED04208 M20 filter. Replacement due on condition or TT 3172.7 or Dec 2026 or after 5 cleanings. Repositioned right exhaust tail pipe to direct exhaust gasses away from airframe. AD's current through this date referencing AD Toolbox.


Inspected ELT model DM ELT 8.1 s/n 13639E in accordance with FAR 91.207(d). Battery due date November 2024.

I certify this airframe has been inspected IAW an annual inspection per CFR 43 appendix D and has been determined to be in airworthy condition.

Kenneth Panissidi

AP 3022381 IA

F.A.R. 43.9

DATE OF COMPLETION	AIRCRAFT TIME IN SERVICE	DESCRIPTION OF WORK PERFORMED OR APPROVED DATA USED	AGENCY & CERTIFICATE NO. WORK PERFORMED/RETURNED TO SERVICE
		 <p>Flight Center</p> <p>WFC-Maintenance, LLC.</p> <p>Williamsburg, VA 23185</p>	<p>Date: 12-13-2023</p> <p>Tach: 2673.9</p> <p>TTE:</p> <p>TSMO:</p>
	<p>Reg#: N142MP</p> <p>Make: CONTINENTAL</p> <p>Model: IO-550-N16</p> <p>S/N: 687920</p>		
	<p>Customer reported fluctuating Manifold Pressure Gauge. Inspected all induction tube gaskets and noted cracked gasket at #5 cylinder. Removed existing gasket and replaced with new gasket from parts, p/n SA 630824. Ran aircraft, Ops checks good. Manifold Pressure holding steady. All secure, approved for return to service.</p>		
	<p>James McGill <i>James McGill</i>A&P 3686429</p>		

MAINTENANCE RECORD



Flight Center

AGENCY & CERTIFICATE NO.
REFORMED/RETURNED TO SERVICE

Reg#: N421MP

Date: 01-17-2025

Manufacturer: Mooney

WFC-Maintenance, LLC.

Hobbs:

Model: M20L

Williamsburg, VA 23185

Tach: 2734.1

S/N: 26-0023

TTAF: 2734.1

Serviced induction air filter Donaldson p/n ED04208 M20 filter. Replacement due on condition or TT 3172.7 or Dec 2026 or after 5 cleanings. Replaced both left and right brake discs with new p/n APS164-02000 discs. Replaced ELT battery with p/n BP-1020. Replaced O-rings in brake assembly with new MS28775-224 O-rings. Removed park brake valve and replaced O-rings p/n's MS28775-010 and MS28778-4. Replaced one AN fitting on park brake valve with new AN822-3D fitting. Replaced landing light bulbs with new Aero-Leds p/n 01-1030-L-A. Secured brake hose from chafing structure on right main landing gear. Retorqued nose gear trunion pivot bolts. AD's current through this date.

Inspected ELT model DM ELT 8.1 s/n 13639E in accordance with FAR 91.207(d). Battery due date March 2027

I certify this airframe has been inspected IAW an annual inspection per CFR 43 appendix D and has been determined to be in airworthy condition.

Kenneth Panissidi

AP 3022381 IA

MAINTENANCE RECORD

F.A.R. 43.9

DATE OF
COMPLETION

AIRCRAFT TIME
IN SERVICE

DESCRIPTION OF WORK PERFORMED
OR APPROVED DATA USED

AGENCY & CERTIFICATE NO.
WORK PERFORMED/RETURNED TO SERVICE

Reg#: N142MP

Make: CONTINENTAL

Model: IO-550-N16

S/N: 687920



WFC-Maintenance, LLC.

Williamsburg, VA 23185

Date: 02-24-2025

Tach: 2736.2

TTE:

TSMO:

Removed both left and right magnetos and replaced primary contact points p/n 10-382584 and condensers p/n 10-400615. Internally timed magnetos referencing TCM Service Support Manual publication X42002-3. Installed magnetos and set engine timing to spec. Adjusted TCM fuel pump low pressure referencing TCM SID97-36E to specs. Adjusted Idle speed and idle mixture along with low pressure adjustment. High pressure adjustment withing specs. Ground run and magneto check satisfactory.

Kenneth Panissidi

AP3022381

INSPECTION RECORD
SPARKCHASERS

AC MAKE: Mooney

AC MODEL: M20L

AC SN: 26-0023

Date: May 30th, 2025

Found Garmin GI275 backup battery PN:011-04528-00 SN:5MZ615731 to be bad. Replaced with new Garmin GI275 backup battery PN:011-04528-00 SN:5MZ622011. Performed battery calibration run down test and operational checks are good. Work was performed IAW Installation Manual STC Part 23 GI 275 190-02246-10 Rev.19. Details related to work performed are on file under work order 10-22565.

Signed 
ACSPR39K

SPARKCHASERS

Aircraft Services, Inc.

AIRFRAME LOGBOOK ENTRY

TACH TIME: 2750.9

HOBBS:

A/C REG. #: N142MP

AC MAKE: Mooney

AC MODEL: M20L

AC SN: 26-0023

Date: May 30th, 2025

A. Removed the following: Airbourne Fuel Quantity Gauge PN:9A1620-2, 2ea. OEM fuel quantity sender (Inboard Pilot and Copilot), 2ea. OEM fuel quantity sender (Outboard Pilot and Copilot). B. Installed the following: 2ea. Cies Fuel Senders PN: CC-TR-2840-03 Rev. F (SN: MY2010 Pilot Outboard) (SN: MY2011 Co-Pilot Outboard), 2ea. Fuel Quantity Senders PN: CC-TR-2840-03 Rev. F (SN: MY2008 Pilot Inboard) (SN: MY2009 Co-Pilot Inboard) C. The above Cies fuel senders were installed IAW SA02511SE and Cies installation instructions Document number: CC-TR-2840-03 Rev. F. The fuel quantity was interfaced to a JPI 900 system and fuel calibration was performed IAW Cies installation instructions Document number: CC-TR-2840-03 Rev. F and J.P. Instruments Installation Manual Report # 908, Rev. M, dated 07/10/2021 D. A comprehensive ground test was conducted to document and validate the conformity and proper operation of the installed equipment. Customer will perform test flight upon arrival. E. The aircrafts supplemental equipment listings and weight and balance have been revised to reflect the above installations. F. The following Instructions For Continued Airworthiness documents have been placed in the permanent aircraft records: STCSA02511SE Installation Manual & Instructions for Continued Airworthiness CC Series Fuel Level Sender CC-TR-2840-03 Rev. G. All inspection records and other documents pertaining to this major alteration are on file at Sparkchasers Aircraft Services, Inc., 3149-B Swift Creek Road, Smithfield, NC 27577 under Work Order Number 10-22565. See attached 337 dated 05/30/2025

Signed RS PUL At P40745921A

TACH TIME: 2750.9

HOBBS:

A/C REG. #: N142MP

INSPECTION RECORD SPARKCHASERS

Aircraft Services, Inc.
AIRFRAME LOGBOOK ENTRY

TACH TIME: 27503

HOBBS:

A/C REG. #: N142MF

AC MAKE: Mooney

AC MODEL: M20L

AC S/N: 26-0023

Date: May 30th, 2025

A. Removed the following: 1ea. Vision Microsystems Vm1000 PN:4010050 SN:89046 engine monitor with all associated engine sensors.
Installed the following: 1ea. JPI EDM900 PN:790000-A SN:14022, 1 ea. J.P. Instruments Fuel Flow Transducer P/N: 700900-1 SN:248528,
1 ea. J.P. Instruments Oil Temperature Probe PN: 400509 SN:16157, 1 ea. J.P. Instruments OAT Probe PN: 400510 SN:19055, 1 ea. J.P.
Instruments Oil Pressure Transducer PN:159936 SN:13032, 1 ea. J.P. Instruments Manifold Pressure Transducer PN: 159934 SN:404702,
1 ea. J.P. Instruments RPM Sensor PN: 420815-2 SN:169789, 6 ea. J.P. Instruments CHT Probes PN: M-5050, 6 ea. J.P. Instruments EGT
Probes PN: M-111, 1 ea. J.P. Instruments Shunt 50 mV/0-100 amp PN: 159920, 1 ea. J.P. Instruments EDM-900 Remote Alarm Light PN:
790547, 1 ea. J.P. Instruments Fuel Pressure Sensor PN: 159938 SN:10203, 1 ea. J.P. Instruments Fuel Quantity Cable PN: 790827, 1 ea.
Instruments P1 Harness PN: 790200, 1 ea. J.P. Instruments P2 Harness PN: 700700, 1 ea. J.P. Instruments P3 Harness PN: 790422, 1 ea.
J.P. Instruments P4 Harness PN: 700708, and 1 ea. J.P. Instruments P5 Harness PN: 790723. C. The above J.P. Instruments EDM-900
Primary Engine Data Management System with all sensors/ harnesses was installed in accordance with J.P. Instruments Installation
Manual Report # 908, Rev. M, dated 07/10/2021. This field approval was needed due to STC SA01435SE not covering a Mooney M20L with
existing STC SA02624AT modification. Verified all engine gauge markings and operational checks were good. D. A functional ground
check was performed and the above J.P. Instruments EDM-900 Engine Data Management System was found to function normally. E. The
aircraft Weight & Balance and Equipment Listing have been revised accordingly. F. The FAA Approved Airplane Flight Manual Supplement
930-0001 Rev. E, dated March 28, 2016, has been installed in the aircraft Pilots Operating Handbook. G. Instructions for Continued
Airworthiness: ICA Instructions are contained in Supplement No. 905-01, Rev. E, dated 05/24/2014. A copy of this ICA has been placed in
the permanent aircraft records. H. All inspection records and other documents pertaining to this major alteration are on file at
Sparkchasers Aircraft Services, Inc., 3149-B Swift Creek Road, Smithfield, NC 27577 under Work Order Number 10-22565, dated
10/09/2024. See attached 337 dated 05/30/2025

Signed

725 RIT AHS 4014592DA