

N69MB

ser# 27-0353



*The Standard*

# AIRCRAFT LOG

ASA-SA-1



**Aircraft Record** General Information

Manufacturer MOONEY AIRPLANE CO. INC. Model M20M  
Serial 27-0353 Registration Number N131US  
Date of Manufacture 2006

**Engine(s) currently installed:**

Manufacturer LYCOMING Model T10-540-AF1B Serial L-12240-61A  
Manufacturer \_\_\_\_\_ Model \_\_\_\_\_ Serial \_\_\_\_\_

**Propeller(s) currently installed:**

Manufacturer MCCAULEY 3-BLADE Model B3D32C417-D/G-82NRD-7  
HUB Model \_\_\_\_\_ Serial 050804 Serial \_\_\_\_\_  
Blade Model \_\_\_\_\_ Serial ZC-26261 Serial ZC-26267 Serial ZD-26356  
Blade Model \_\_\_\_\_ Serial \_\_\_\_\_ Serial \_\_\_\_\_ Serial \_\_\_\_\_

**WARNING**  
**-THIS PROPELLER HAS BEEN DYNAMICALLY BALANCED-**

Each aircraft has an engine/propeller imbalance and amplitude different than others due to manufacturing tolerances in engine and/or propeller.

Dynamic balancing is not required but smoother operation will result when the engine & propeller are balanced as an integral unit.

Propellers that have been dynamically balanced require special consideration when any maintenance is to be done on the engine or propeller. There are balance weights bolted to the spinner bulkhead and these may require removal, depending upon the maintenance action being done. If the propeller is replaced or overhauled the weights shall **BE REMOVED** from the spinner bulkhead prior to engine start up.

It is at the owner's discretion to have the propeller/engine combination dynamically balanced after maintenance which may disturb the original balanced condition. Use of a Chadwick Helmuth dynamic balancing system is recommended but may not be the only means to accomplish this balance condition.

Mooney Airplane Company



[illegible]



YEAR: 2006 DATE	RECORDING TACH TIME	TODAY'S FLIGHT	TOTAL TIME IN SERVICE	Description of Inspections, Tests, Repairs and Alterations Entries must be endorsed with Name, Rating and Certificate Number of Technician or Repair Facility. (See back pages for other specific entries.)
1-30			5.9	
		GPS 1		GPS 2
		The GPS Navigation System, Make <u>Garmm</u> Model <u>G1000</u> installed in this Aircraft has been Ground/Flight tested in accordance with Mooney Airplane Co. Specification 020009 and is approved for use under instrument Flight Rules, Enroute and Non-Precision approaches only.		The GPS Navigation System, Make <u>Garmm</u> Model <u>G1000</u> installed in this Aircraft has been Ground/Flight tested in accordance with Mooney Airplane Co. Specification 020009, and is approved for use under instrument Flight Rules, Enroute and Non-Precision approaches only.
		Signed <u>[Signature]</u> Mooney Airplane Co., Inc. PC13SW		Signed <u>[Signature]</u> Mooney Airplane Co., Inc. PC13SW

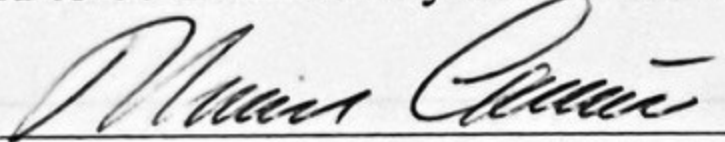


YEAR: _____ DATE	RECORDING TACH TIME	TODAY'S FLIGHT	TOTAL TIME IN SERVICE	<b>Description of Inspections, Tests, Repairs and Alterations</b> Entries must be endorsed with Name, Rating and Certificate Number of Technician or Repair Facility. (See back pages for other specific entries.)
				I certify that the altimeter tested to <u>35,000</u> feet on <u>9/7/05</u> and Static System Tests required by FAR 91.411 have been performed. MOONEY AIRPLANE COMP. TC2A3 PC13SW BY <u>James G. Belmont</u> <u>1/30/06</u>
				I certify that the encoding altimeter tests required by FAR 91.217b have been performed. MOONEY AIRPLANE COMP. TC2A3 PC13SW BY <u>James G. Belmont</u> <u>1/30/06</u>
				I certify that the altimeter tested to <u>35,000</u> feet on <u>9/7/05</u> and Static System Tests required by FAR 91.411 have been performed. MOONEY AIRPLANE COMP. TC2A3 PC13SW BY <u>James G. Belmont</u> <u>1/30/06</u>
				"I find that the aircraft meets the requirements for the certification requested and have issued a (Standard) (Basic) Airworthiness Certificate Dated <u>1/30/06</u> . The next Annual Inspection is due <u>1/30/07</u> " SIGNED <u>James G. Belmont</u> <u>DMIR 7420125W</u>



YEAR: _____ DATE	RECORDING TACH TIME	TODAY'S FLIGHT	TOTAL TIME IN SERVICE	Description of Inspections, Tests, Repairs and Alterations Entries must be endorsed with Name, Rating and Certificate Number of Technician or Repair Facility. (See back pages for other specific entries.)
				<p>MAKE: MOONEY MODEL: M20M S/N: 27-0353 REG. NO: N131US WORK ORDER: 1213-11-2006</p> <p><b>Mooney Airplane Company, Inc.</b> Repair Station No. CRS# MPYR456X 165 Al Mooney Road North Kerrville, TX 78028 Phone: 830-792-2924</p> <p>DATE: 12/18/2006 A/C TSN: 85.7 HOBBS: 85.7</p> <p><b>Airframe Entries</b> (1) Installed AS&amp;T TKS Ice Protection System refer to form 337 dated 12/18/06..(28) Replaced Landing Lights only with new Precise Flight Xenon Landing Lights in accordance with Mooney Airplane Company Type Design Drawing Number 210417..(31) Replaced LH &amp; RH wingtip lenses pn 210384-001 &amp; 210384-002 with new..(35) CW Mooney SB M20-291A by correcting wiring at flap pot connector..(37) Replaced pitot heat switch pn 930023-305 with new..(38) CW Mooney SB M20-292 by removing material between firewall and tubular frame, installing correct hardware and torquing to spec.</p> <p>The aircraft or components identified above on N131US was repaired and inspected in accordance with current rules of the Federal Aviation Regulations and was found Airworthy for return to service. Pertinent details of the repair are on file at this repair station under Ebis 3 Work Order No. 1213-11-2006.</p> <p>DATE: 12/18/2006      SIGNED:       Work Order: 1213-11-2006</p> <p>Brian Kendrick Certified Repair Station No. CRS# MPYR456X</p> <p>Printed by EBis 3 (datcomedia.com)</p>



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				<p align="center"><b>2/1/07 N131US S/N 27-0353 ACTT: 106.9</b></p> <p>Complied with a 100 Hour/Annual inspection IAW the Mooney Service Manual 5-20-06 to include the following items: All AD's current thru 2007-02. Investigated TKS leak from belly section of aircraft. Tightened fittings on manifolds. Operation and leak check good at this time. Complied with ELT operational check IAW 91.207.</p> <p>This aircraft has been inspected IAW an annual inspection and was found to be in airworthy condition with respect to the work performed.</p> <div style="text-align: right;">   Michael Cantrell A&amp;P2818792IA </div>



YEAR:

DATE

MAKE: Mooney  
MODEL: M20-M  
S/N: 27-0353  
REG. NO: 131US  
WORK ORDER:  
3061-03-2007



# Top Gun Aviation, Inc.

6100 S. Lindbergh St.  
Stockton, CA 95206  
Phone: 209-983-8082

DATE: 4/17/2007

AVC TSN:

HOBBS: 137.3

epair

## Airframe Entries

(2) Replaced right strobe lamp, function check OK.... (3) Replaced missing TKS feed shoe on propeller.... (6) Removed right wing proportioning unit P/N PU300DW73, S/N AST064430 & installed proportioning unit P/N PU300DW73, S/N AST06G861, Function check OK.... (7) Replaced MFD MN GDU 1040, S/N 88900272 with MFD MN GDU 1040, S/N 88901293, uploaded new nav data function check OK.... (8) AD 07-05-04 Engine mount attach PCW IAW SB M20-292A.... (9) MTR.

I certify that this AIRCRAFT is airworthy with respect to the work performed.

DATE: 4/17/2007

SIGNED:

Mark T. Rouch, IA: 566531421 IA

Work Order: 3061-03-2007

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## Pro-Flight Aviation, Inc.

Repair

**3/10/2008**

## Mooney M20M

**N131US**

Hobbs:201.2

**AFTT: 201.2**

Annual inspection completed this date. Inspected and tested ELT IAW FAR 91.207(d) Batteries replaced - next due March, 2014. Lubed flight controls. All applicable A.D.s complied with through 2008-04. Replaced fuel pump seal drain hose. Replaced RH taxi light. I certify that this aircraft has been inspected in accordance with an annual inspection and was found to be airworthy. -

-END--

Baphoth

**B.A. Paholke**

LA 468781561




YEAR:	RECORDING TACH	TODAY'S FLIGHT	TOTAL TIME ...	Description of Inspections, Tests, Repairs and Alterations
N131US, 04-10-09,	235.9 Hobbs,	235.9 TTAFF		Engine & Propeller. C/W Mooney 100 hr type Annual Inspection Checklist. Airworthiness Directives C/W through issue 04, 07/08
C/W AD 04-10-14,	Lyc Prop Strike,	N/A by on condition		
C/W AD 08-14-07	Ext. Mounted Fuel Injector lines,	Next due @ 335.9 TT		
AD 09-02-03,	Precision RSA-5 Fuel Injection unit,	N/A by not installed	Time frame, one time	
AD 08-19-05,	ECI Cly P/N 65102 series,	N/A by not installed.		
AD 07-05-04,	Upper Engine mount PCW 12/18 /06 SB M20-291a & SB M20-292,	one time		
AD 03-13-17,	Props by T & W Propeller,	N/A by not installed		
AD 05-14-11,	Props by So Cal Prop,	N/A by not installed.		
Compression @ #1-78, #2-78, #3-80, #4-78, #5-79, #6-78,	Plugs cleaned and rotated.			
O2 cly hydrostatic test revised to 5 years as per DOT SP-1194 cert base next due @ sept 2011.				
Original O2 bottle stamped into service Sept 2006. Battery boxes inspected, Batt no service required. Fuel filter cleaned, no sediment. Oil filter cut open, no metal. Installed new Champ 48110-1. Exhaust system inspected, no leaks. TKS system checked for operation, satisfactory.				
Retraction system accomplished, all horns and lights operational. ELT FAR 91:207 D C/W Batt date 03/11.				
Checked turbo blades in and out, resafted all Turbo clampd,(4). serviced Hyd system.				
Installed new Airfilter P/N EDO 4028, Spruce P/N 08-07056. Installed new fuel cap O-Rings P/N MS29513-338. Pulleys, cables and controls inspected for security, function and freedom of movement, lubed as needed. Post ops leak check satisfactory. I certify this Airframe and Engine				
is approved for return to service as per FAR 43:11, A,1, (4) (5) END Roland W. Johnson				
Mgr FAA-LLC, 1713979 IA				

YEA

DATE

American Avionics, 7023 Perimeter Rd. Seattle, Wa 98108

N 1314S

CERTIFIED AIRWORTHY

As required by FAR 91.411 and/or 91.413

Performed in accordance with FAR Part 43 appendices "E" and/or "F".

2 Altimeter to 25,000 Ft.

1 Altitude Reporting Test

1 Static System Test

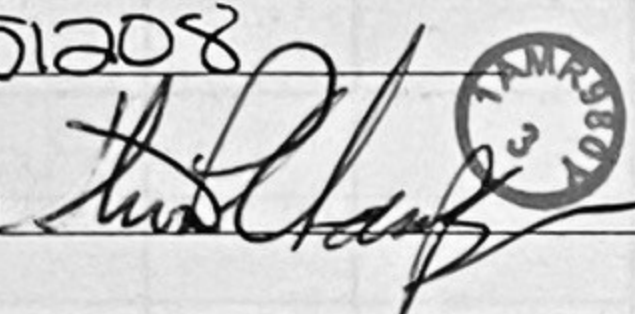
1 Integrated System Test

1 ATC Transponder Test

W/O 51208

Date 3-18-2008

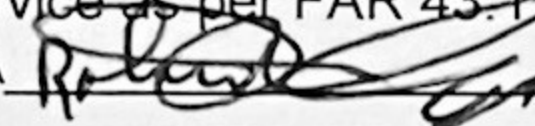
Signed






Inspector CRS#1AMR980Y




YEAR: _____ DATE	RECORDING TACH TIME	TODAY'S FLIGHT	TOTAL TIME IN SERVICE	<b>Description of Inspections, Tests, Repairs and Alterations</b> Entries must be endorsed with Name, Rating and Certificate Number of Technician or Repair Facility. (See back pages for other specific entries.)
				<p>— N131US, 06-15-10, 262.3 Hobbs, 262.3 TTAF Engine &amp; Propeller. C/W Mooney 100 hr type Annual Inspection Checklist. Airworthiness Directives C/W through issue 19:, 12/13</p> <p>— C/W AD 04-10-14, Lyc Prop Strike, N/A by on condition</p> <p>— C/W AD 08-14-07 Ext. Mounted Fuel Injector lines, Next due @ 362.3 TT</p> <p>— AD 07-05-04, Upper Enginr mount PCW 12/18 /06 SB M20-291a &amp; SB M20-292, one time</p> <p>— AD 09-26-12, ECI cyl assemblies P/N AEL65102 series N/A by not installed</p> <p>— Compression @ #1-76, #2-77, #3-80, #4-76, #5-75, #6-75, Plugs cleaned, tested and rotated.</p> <p>— O2 cly hydrostatic test revised to 5 years as per DOT SP-1194 cert base next due @ sept 2011.</p> <p>— Original O2 bottle stamped into service Sept 2006. Battery boxes inspected, Batt no service required.</p> <p>— Fuel filter cleaned, no sediment. Oil filter cut open, no metal. Installed new Champ 48110-1.</p> <p>— Exhaust system inspected, no leaks. TKS system checked for operation, satisfactory. installed 9 qrts</p> <p>— Aeroshell 15-50 wt Retraction system accomplished, all horns and lights operational. ELT FAR 91:207</p> <p>— D C/W Batt date 03/11. Checked turbo blades in and out, resaftied all Turbo clampes, (4). serviced Hyd system.</p> <p>— Pulleys, cables and controls inspected for security, function and freedom of movement, lubed as needed</p> <p>— Post ops leak check satisfactory. I certify this Airframe and Engine</p> <p>— is approved for return to service as per FAR 43.11, (a)(4)(5) END Roland W. Johnson</p> <p>— Mem FAA-LLC, 1713979 IA </p>

YEAR: _____ DATE	RECORDING TACH TIME	TODAY'S FLIGHT	TOTAL TIME IN SERVICE	<b>Description of Inspections, Tests, Repairs and Alterations</b> Entries must be endorsed with Name, Rating and Certificate Number of Technician or Repair Facility. (See back pages for other specific entries.)
				<p><u>American Avionics 7023 Perimeter Rd. Seattle, Wa 98108</u></p> <p><u>N 13145</u></p> <p>CERTIFIED AIRWORTHY            As required by FAR Part 91.411 <input checked="" type="checkbox"/>            FAR Part 91.413 <input checked="" type="checkbox"/></p> <p>Performed in accordance with FAR Part 43 appendices "E" and "F".</p> <p><u>2</u> Altimeter to <u>25,000</u> Ft. IAW part 43 Appendix "E", paragraph "b"</p> <p><u>1</u> Integrated Systems Test IAW Part 43 Appendix "E", paragraph "c"</p> <p><u>1</u> Static System Test IAW Part 43 Appendix "E", paragraph "a"</p> <p><u>1</u> ATC Transponder Test IAW Part 43 Appendix "F"</p> <p>W/O <u>62834</u> Date <u>1 July 2010</u></p> <p>Signed <u></u> Inspector CRS# 1AMR980Y</p>



YEAR:	RECORDING TACH TIME	TODAY'S FLIGHT	TOTAL TIME IN SERVICE	Description of Inspections, Tests, Repairs and Alterations Entries must be endorsed with Name, Rating and Certificate Number of Technician or Repair
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N131US, 08-20-11, 296.2 Hobbs, 296.2 TTAF ,Engine & Propeller. C/W Mooney 100 hr type  
 Annual Inspection Checklist. Airworthiness Directives C/W through issue 11, 16/17  
 C/W AD 04-10-14, Lyc Prop Strike, N/A by on condition  
 C/W AD 08-14-07 Ext. Mounted Fuel Injector lines, Next due @ 396.2 TT  
 AD 09-02-03, Precision RSA-5 Fuel Injection unit, N/A by not installed Time frame, one time  
 AD 09-26-12, ECI Cly P/N 65102 series, N/A by not installed.  
 AD 07-05-04, Upper Engine mount PCW 12/18 /06 SB M20-291a & SB M20-292, one time  
 AD 11-13-03, Machining debris, N/A by not installed.  
 AD 11-15-10, AVStar Fuel system, N/A by not installed.  
 Compression @ #1-78, #2-76, #3-78, #4-77, #5-78, #6-77, Plugs cleaned and rotated.  
 O2 cly hydrostatic test C/W by Fire King Inv.# 892342, next 08/2016.  
 Battery boxes inspected, Batt no service required. Fuel filter cleaned, no sediment. Oil filter cut open, no metal.  
 Installed new Champ 48110-1. Exhaust system inspected, no leaks. TKS system checked for operation,  
 satisfactory. Retraction system accomplished, all horns and lights operational. ELT FAR 91:207 D C/W  
 Batt date 05/2014. Checked turbo blades in and out, resafted all Turbo clamps,(4). serviced Hyd system.  
 Installed new Ice light P/N PS-044011. Pulleys, cables and controls inspected for security, function and  
 freedom of movement, lubed as needed. Post ops leak check satisfactory. I certify this Airframe and Engine  
 is approved for return to service as per FAR 43.11, (a)(4) (5) END Roland W. Johnson  
 Mem FAA-LLC, 1713979 IA 

YEAR: DATE	RECORDING TACH TIME	TODAY'S FLIGHT	TOTAL TIME IN SERVICE	Description of Inspections, Tests, Repairs and Alterations Entries must be endorsed with Name, Rating and Certificate Number of Technician or Repair Facility. (See back pages for other specific entries.)
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N131US, 08-20-11, 235.9 TT since new Prop. I certify this propeller has been inspected as per the Mooney 100 hr inspection and Annual checklist and is approved for return to service as per FAR 43:11, (a) (4) (5) END Roland W Johnson 1713979 IA, Mem FAA-LLC.

Date: 8/14/2012 N131US 2006 M-20M S/N 27-0353

TACH: 343.7

Hobbs: 348.8

I certify that this AIRCRAFT has been inspected in accordance with an ANNUAL inspection and was found to be in an AIRWORTHY condition. The following work was performed: Lubed all rod ends and hinges and checked lights. Jacked aircraft and lubed gear, performed gear retraction and emergency extension tests with no defects noted. Removed and replaced left main tire. Checked ELT per FAR 91.207(d), battery due 04-2014. C/W AD 12-05-09 by visual inspection per SB M20-313-1, no defects noted. All AD's checked thru this date, see sheet for compliance. All work was performed according to current FAR's and is approved for return to service.

Mark W Tripp 594584206IA

*Mark Tripp* 9-14-2012



YEAR: DATE	RECORDING TACH TIME	TODAY'S FLIGHT	TOTAL TIME IN SERVICE	Description of Inspections, Tests, Repairs and Alterations Entries must be endorsed with Name, Rating and Certificate Number of Technician or Repair Facility. (See back pages for other specific entries.)
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N131US, 08-20-11, 235.9 TT since new Prop. I certify this propeller has been inspected as per the Mooney 100 hr inspection and Annual checklist and is approved for return to service as per FAR 43:11,(a) (4) (5) END Roland W Johnson 1713979 IA, Mem FAA-LLC.

Date: 8/14/2012 N131US 2006 M-20M S/N 27-0353

TACH: 343.7

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I certify that this AIRCRAFT has been inspected in accordance with an ANNUAL inspection and was found to be in an AIRWORTHY condition. The following work was performed: Lubed all rod ends and hinges and checked lights. Jacked aircraft and lubed gear, performed gear retraction and emergency extension tests with no defects noted. Removed and replaced left main tire. Checked ELT per FAR 91.207(d), battery due 04-2014. C/W AD 12-05-09 by visual inspection per SB M20-313-1, no defects noted. All AD's checked thru this date, see sheet for compliance. All work was performed according to current FAR's and is approved for return to service.

Mark W Tripp 594584206IA

*Mark Tripp* 9-14-2012

[illegible]



[illegible]

YEAR: _____ DATE	RECORDING TACH TIME	TODAY'S FLIGHT	TOTAL TIME IN SERVICE	Description of Inspections, Tests, Repairs and Alterations Entries must be endorsed with Name, Rating and Certificate Number of Technician or Repair Facility. (See back pages for other specific entries.)
	MAKE MOONEY MODEL M20M S/N 27-0353 REG NO N131US WORK ORDER 3158-09-2012			<p><b>North American Flight Services</b></p> <p>Repair Station No. N0MR725J 405 Greenfield Avenue Ballston Spa, NY 12020 Phone: 518-885-5470</p> <p><b>Airframe Entries</b></p> <p>UPDATED SOFTWARE ON GARMIN G1000 TO VERSION 0401.30. OPERATIONAL CHECKS SATISFACTORY. ALL WORK PERFORMED IN REFERENCE TO GARMIN M20M G1000 MAINTENANCE MANUAL.</p> <p>The aircraft, airframe, aircraft engine, propeller, or appliance identified above was repaired and / or inspected in accordance with current regulations of the Federal Aviation Administration and the aircraft/engine/ propeller/appliance manufacturers maintenance manual instructions and procedures. This aircraft is approved for return to service with respect to the above work performed. Further details are on file at this repair station under the work order number reflected on this log entry.</p> <p>DATE: 17 September, 2012      SIGNED: <i>Lou Cozine</i> Lou Cozine Certified Repair Station No. N0MR725J</p> <p>Work Order: 3158-09-2012 Printed by EBis 3 (datcomedia.com)</p>



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MAKE: MOONEY  
MODEL: M20M  
S/N: 27-0353  
REG. NO: N131US  
WORK ORDER:  
3158-09-2012



### North American Flight Services

Repair Station No. N0MR725J  
405 Greenfield Avenue  
Ballston Spa, NY 12020  
Phone: 518-885-5470

DATE: 17 September, 2012  
A/C TSN:  
TACH:

#### Airframe Entries

UPDATED SOFTWARE ON GARMIN G1000 TO VERSION 0401.30. OPERATIONAL CHECKS SATISFACTORY. ALL WORK PERFORMED IN REFERENCE TO GARMIN M20M G1000 MAINTENANCE MANUAL.

The aircraft, airframe, aircraft engine, propeller, or appliance identified above was repaired and / or inspected in accordance with current regulations of the Federal Aviation Administration and the aircraft/engine/ propeller/appliance manufacturers maintenance manual instructions and procedures. This aircraft is approved for return to service with respect to the above work performed. Further details are on file at this repair station under the work order number reflected on this log entry.

DATE: 17 September, 2012

SIGNED:

Robert Lord  
Certified Repair Station No. N0MR725J



Work Order: 3158-09-2012

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Rich Air  
443 Queensbury Avenue  
Warren County Airport (GFL)  
Queensbury, NY 12804  
Tel 518-798-3091 Fax 518-615-0774

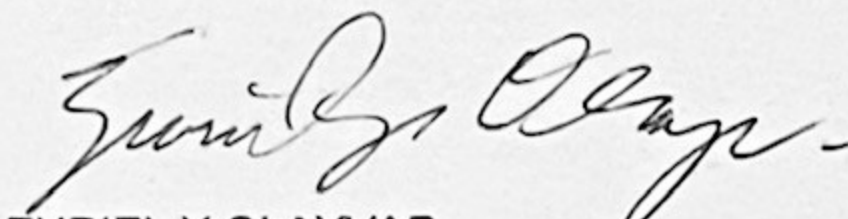
Date: 9/25/2013; Aircraft: N131US; Type: M20M; S/N: 27-0353; Hobbs: 431.40; Tach:; Total Time: 431.40; Engine - Type: LYC  
TIO-540-AF1B, S/N:; Time: 431.40  
Shop Order #: S-13-0879, Closed: 9/25/2013

- 1) Removed both Magnetos & inspected internally per Slick / Unison 500 hr inspection & service information.  
Re-installed, timed, sync and ground run - OK..
- 2) Replaced all brake pads on both gear.
- 3) Operate, leak check and clean TKS system.
- 4) ELT inspected and operationally checked per 91.207(d)
- 5) C/W AD 2011-26-04 by inspection of fuel injection system per Lyc. MSB 342E - next inspection due by 531hrs.

This aircraft has been Inspected in accordance with an Annual Inspection and has been determined to be Airworthy.

Charles McPhee, A&P 3476507 IA



YEAR: _____  DATE	RECORDING TACH TIME	TODAY'S FLIGHT TIME	TOTAL TIME IN AIR	Description of Inspections, Tests, Repairs and Alterations	Signature or Repair
				SUNCOAST MAINTENANCE CENTER 224 E. Airport Ave. Venice, Florida 34285 (941) 484-6546 Fax (941) 488-1442	
				N131US	
				AIRFRAME LOG	
				TACH: 460.2	
				DATE: 11/27/13	
				INSTALLED REPAIRED STEC CONTROL COMPUTER P/N: 01192-6-45TF, S/N: 0540-9008 PER STEC INSTALL MANUAL. OPERATIONAL CHECKED OK.	
					
				ZURIEL Y OLAYVAR	
				AP3108620	

YEAR: _____ DATE	RECORDING TACH TIME	TODAY'S FLIGHT	TOTAL TIME IN SERVICE	Description of Inspections, Tests, Repairs and Alterations Entries must be endorsed with Name, Rating and Certificate Number of Technician or Repair
	MAKE: MOONEY MODEL: M20M S/N: 27-0353 REG. NO: N131US WORK ORDER: 3553-04-2014			<p align="center"><b>North American Flight Services</b></p> <p align="center">            Repair Station No. N0MR725J            405 Greenfield Avenue            Ballston Spa, NY 12020            Phone: 518-885-5470         </p> <p align="right">DATE: 17 April, 2014 A/C TSN: 483.4 TACH: 483.4</p> <p><b>Airframe Entries</b></p> <p>REMOVED DEFECTIVE STEC-55X AUTOPILOT COMPUTER AND SENT OUT FOR REPAIR. INSTALLED REPAIRED STEC-55X AUTOPILOT COMPUTER P/N: 01192-6-45TF, S/N: 0540-9008. OPERATIONAL CHECKS SATISFACTORY. ALL WORK PERFORMED IN REFERENCE TO STEC 55X INSTALLATION MANUAL, AND MOONEY M20M MAINTENANCE MANUAL.</p> <p>REMOVED INOP BULB AND REPLACED WITH NEW BULB P/N: 02-0250276-00. REF MOONEY AMM CHAP. 33. OP CHECK GOOD.</p> <p>REMOVED STEC 55X TRIM SERVO P/N: 0106-14-T6, S/N: 0542-20498CEFJ AND SENT IN FOR STEC RECOMMENDED UPGRADE. INSTALLED REPAIRED STEC 55X TRIM SERVO P/N: 0106-14-T11, S/N: 0542-20498CEFJ. OPERATIONAL CHECKS SATISFACTORY. ALL WORK PERFORMED IN REFERENCE TO STEC 55X INSTALLATION MANUAL AND MOONEY M20M MAINTENANCE MANUAL.</p> <p>The aircraft, airframe, aircraft engine, propeller, or appliance identified above was repaired and / or inspected in accordance with current regulations of the Federal Aviation Administration and the aircraft/engine/ propeller/appliance manufacturers maintenance manual instructions and procedures. This aircraft is approved for return to service with respect to the above work performed. Further details are on file at this repair station under the work order number reflected on this log entry.</p>
	DATE: 17 April, 2014	SIGNED: 		Work Order: 3553-04-2014
		Marco Alvarado Certified Repair Station No. N0MR725J		Printed by EBis 3 (datcomedia.com)



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Rich Air  
 443 Queensbury Avenue  
 Warren County Airport (GFL)  
 Queensbury, NY 12804  
 Tel 518-798-3091 Fax 518-615-0774

Date: 10/10/2014; Aircraft: N131US; Type: M20M; S/N: 27-0353; Hobbs: 519.30; Tach:; Total Time: 519.30; Engine - Type:  
 LYC TIO-540-AF1B, S/N:; Time:  
 Shop Order #: S-14-1032, Closed: 10/14/2014

1a) Removed Precision Fuel Servo model RSA-5AD1 Pn: 61J21008 Sn: 70A72205.

Sent to Penn Yan Aero services for inspection & Repair as necessary.

(Fuel & air diaphragms replaced. see Penn Yan W/O# 40516-14 dated 10/9/14)

1b) Installed repaired servo, Leak Ck'd and ground run. Idle mixture adjusted as needed.

2) Replaced both Main gear tires with new Condor 6.00x6-6 tires; inspected & reused tubes. Balanced as required

3) Remove all 3 deice fluid boots from Propeller & Install new style Hartzell replacements pn 102155 cut to original boot length.

4) Replaced ELT Batteries & inspected and operationally checked per 91.207(d) next Batt. replacement due by: 10/20/16

This aircraft has been Inspected in accordance with an Annual Inspection and has been determined to be Airworthy.

*David E. Routh*

David Routh, A&P 3047215 IA

YEAR: _____ DATE	RECORDING TACH TIME	TODAY'S FLIGHT	TOTAL TIME IN SERVICE	<b>Description of Inspections, Tests, Repairs and Alterations</b> Entries must be endorsed with Name, Rating and Certificate Number of Technician or Repair Facility. (See back pages for other specific entries.)
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Rich Air  
 443 Queensbury Avenue  
 Warren County Airport (GFL)  
 Queensbury, NY 12804  
 Tel 518-798-3091 Fax 518-615-0774

Date: 11/10/2015; Aircraft: N131US; Type: M20M; S/N: 27-0353; Hobbs: 612.9; Total Time: 612.9; Engine - Type: LYC  
 TIO-540-AF1B, S/N: , Time: 612.9  
 Shop Order #: S-15-1192

- 1) Battery #2 failed load test - battery #1 came up to serviceable limits.( re-installed in the #2 position.)  
a new RG24-15 ( ser No. 40719654 ) installed in position #1 after topping charge.
- 2) Replaced Left & right gear Brake pads.
- 3) ELT inspected and operationally checked per 91.207(d) next Batt. replacement due by: 10/2016
- 4) C/W AD 2015-19-07 by inspection of fuel injection system per Lyc. MSB 342G - next inspection due by: 722 Hobbs
- 5) The ATC Transponder was found out of certification per 91.413 unit placarded & customer notified.

This aircraft has been Inspected in accordance with an Annual Inspection and determined to be Airworthy.

*Charles McPhee*

Charles McPhee, A&P 3476507 IA



LANCASTER AVIONICS, INC. 500-U AIRPORT ROAD LITITZ, PA 17543 CRS# LN7R261N  
LOG ID# 4278 18-May-2016 WO# 20986 HOBBS 631.4  
N131US S/N 27-0353 MOONEY M20M

Pg 1 / 1

Repair

\*\*\*\* ITEM # 20986-2 CALIBRATE GDC74A AIRDATA COMPUTER \*\*\*\*

DISCREPANCY: AIRDATA COMPUTER HAS A 25 FT ERROR @ ZERO FT AND 29.92" Hg WHICH EXCEEDS ALLOWABLE TOLERANCE.

Model: GDC74A Serial#: 47805130

ACTION: PERFORMED GDC74A CALIBRATION PROCEDURE I.A.W. GARMIN G1000 LINE MAINTENANCE MANUAL NO. 190-00303-04, REV. D, JANUARY, 2007 AND SERVICE ADVISORY NO. 0720, GDC74(X) FIELD CALIBRATION TOOL.

\*\*\*\* ITEM # 20986-3 ADJUST STANDBY ALTIMETER \*\*\*\*

DISCREPANCY: BAROMETRIC CORRECTION SCALE HAS +40 FT ERROR @ ZERO FT AND 29.92" Hg WHICH EXCEEDS ALLOWABLE TOLERANCE.

Model: 5934P-1 Serial#: 449904

ACTION: ADJUSTED BAROMETRIC CORRECTION SCALE TO MEET IFR CERTIFICATION SPECS I.A.W. FAR 91.411 AND FAR 43, APPENDIX E.

\*\*\*\* ITEM # 20986-4 REPAIR STATIC SYSTEM LEAK \*\*\*\*

DISCREPANCY: STATIC SYSTEM HAS A 450 FT/MIN LEAK @ 1,000 FT AGL WHICH EXCEEDS ALLOWABLE TOLERANCE.

ACTION: ISOLATED LEAKS AT SEVERAL SOURCES. SEALED FITTINGS ON THE GDC74A AIRDATA, STANDBY ALTIMETER AND AIRSPEED. ALSO SEALED AIRSPEED BEZEL SCREWS. REPLACED DEFECTIVE SECTION OF STATIC LINE BETWEEN AIRSPEED INDICATOR AND AUTOPILOT ALTITUDE TRANSDUCER. FINAL LEAK CHECK ANALYSIS IS WITHIN ALLOWABLE TOLERANCE WITH A 2 FT/MIN LEAK @ 1,000 FT AGL.

  
KYLE REED

N131US mooney hobbs: 631.4  
LANCASTER AVIONICS INC. CRS # LN7R261N

I CERTIFY THAT THE ALTIMETER, ENCODER AND  
STATIC SYSTEM TESTS REQUIRED BY FAR 91.411  
HAVE BEEN PERFORMED IAW FAR 43 APPENDIX E

UNIT	TYPE	TESTED TO
#1 ALTIMETER	GARMIN	25,000
#2 ALTIMETER	Whited	25,000
#3 ALTIMETER	N/A	-

LANCASTER AVIONICS INC  
CRS # LN7R261N

I CERTIFY THAT THE TRANSPONDER (S)  
TEST REQUIRED BY FAR 91.413 HAS BEEN  
PERFORMED IAW FAR 43 APPENDIX F

UNIT	TYPE
#1 TRANSP	GTx 33

YEAR:	RECORDING TACH TIME	TODAY'S FLIGHT	TOTAL TIME IN SERVICE	Description of Inspections, Tests, Repairs and Alterations Entries must be endorsed with Name, Rating and Certificate Number of Technician or Repair
DATE				
				<b>Henry Weber Aircraft Distributors, Inc.</b>
				Maintenance Release
				<b>N131US</b>
				S/N: 27-0353
				Airframe Logbook
				Hobbs: 631.4
				Installed new Michelin Air tire on nose wheel using new Michelin Airstop tube.
				Cleaned and repacked wheel bearings. —END—
				The aircraft identified above was repaired and inspected in accordance with current regulations of the
				Federal Aviation Administration and is approved for return to service. Pertinent details of the repair are on
				file at this repair station under
				Order No: 16206
				Certified Repair Station No: DY1R103K
				Inspector: <u>Troy M. Santangelo</u> Troy M. Santangelo Date: May 20, 2016
				500-B Airport Road, Lancaster Airport, Lititz, PA 17543



#21RANSP  
SIGN  
DATE 5-18-16

ENCODER(S)  
STATIC SYSTEM TEST DATE  
SIGN  
DATE 5-18-16





[illegible]



YEAR:

DATE

Rich Air  
443 Queensbury Ave  
Warren County Airport (KGFL)  
Queensbury, NY 12804

Tel: 518.798.3091 Fax: 518.615.0774

ratings

Number of Technician or Repair

Date: 8/23/2021; Aircraft: N131US; Type: M20M; S/N: 27-0353; Hobbs:; Total Time: 735.0;  
Engine - Type: LYC TIO-540-AF1B, S/N:; Time: 735.0

1.C/W Annual inspection

2.. C/W AD 2017 -16-01 Ameri-King by inspection & operation per IM -450  
manual and per FAR part 91.207(d) ops check battery due 6/22

3.Oxygen bottle service life has expired and due replacement and has been deactivated and  
placarded inop.

4.. AD 2020-19-06 Does not apply by serial number or date , original governor ,never overhauled  
serial #002437

5..Replaced rt recognition light assy

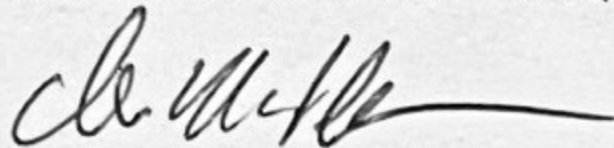
6.C/W AD2015-19-07 inspect Fuel Injection lines per par (c) & MSB342 w/i  
110 hrs since last insp.,at O/H or system maintenance

7.TKS system ops checked and found to be operating normally

8. Performed retraction test on landing gear and operated emergency extension  
performed normally

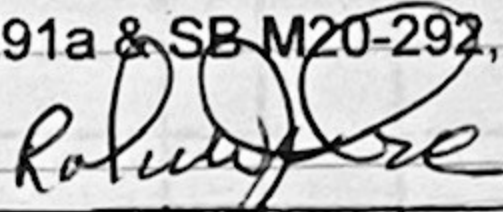
This Aircraft has been inspected in accordance with an Annual Inspection and has been found  
to be Airworthy.

Charles McPhee AP3476507IA



[illegible]



YEAR:	A.D. NUMBER	TOTAL TIME IN SERVICE	Airworthiness Directives Chronological Listing of Compliance and Method of Compliance																																												
DATE																																															
APPENDIX 1. AIRWORTHINESS DIRECTIVE COMPLIANCE RECORD *Aircraft, Engine, Propeller, Rotor, or Appliance: Make _____ Model _____ Ser.No. _____																																															
<div style="text-align: right;">N 13148 4-9</div> <table border="1"> <thead> <tr> <th>AD Number and Amendment Number</th> <th>Date Received</th> <th>Subject</th> <th>Compliance Due Date Hours/Other</th> <th>Method of Compliance</th> <th>Date of Compliance</th> <th>Airframe Total Time In Service at Compliance</th> <th>Component Total Time In Service at Compliance</th> <th>One-Time</th> <th>Recurring</th> <th>Next Comp. Due Date Hours/Other</th> <th>Authorized Signature, Certificate Type and Number</th> </tr> </thead> <tbody> <tr> <td colspan="12">           N131US, 04-10-09, 235.9 Hobbs, 235.9 TTAF, Engine &amp; Propeller. C/W Mooney 100 hr type Annual Inspection Checklist. Airworthiness Directives C/W through issue 04, 07/08            C/W AD 04-10-14, Lyc Prop Strike, N/A by on condition            C/W AD 08-14-07 Ext. Mounted Fuel Injector lines, Next due @ 335.9 TT            AD 09-02-03, Precision RSA-5 Fuel Injection unit, N/A by not installed Time frame, one time            AD 08-19-05, ECI Cly P/N 65102 series, N/A by not installed.            AD 07-05-04, Upper Engine mount PCW 12/18 /06 SB M20-291a &amp; SB M20-292, one time            AD 03-13-17, Props by T &amp; W Propeller, N/A by not installed            AD 05-14-11, Props by So Cal Prop, N/A by not installed.         </td> </tr> <tr> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> </tbody> </table>												AD Number and Amendment Number	Date Received	Subject	Compliance Due Date Hours/Other	Method of Compliance	Date of Compliance	Airframe Total Time In Service at Compliance	Component Total Time In Service at Compliance	One-Time	Recurring	Next Comp. Due Date Hours/Other	Authorized Signature, Certificate Type and Number	N131US, 04-10-09, 235.9 Hobbs, 235.9 TTAF, Engine & Propeller. C/W Mooney 100 hr type Annual Inspection Checklist. Airworthiness Directives C/W through issue 04, 07/08 C/W AD 04-10-14, Lyc Prop Strike, N/A by on condition C/W AD 08-14-07 Ext. Mounted Fuel Injector lines, Next due @ 335.9 TT AD 09-02-03, Precision RSA-5 Fuel Injection unit, N/A by not installed Time frame, one time AD 08-19-05, ECI Cly P/N 65102 series, N/A by not installed. AD 07-05-04, Upper Engine mount PCW 12/18 /06 SB M20-291a & SB M20-292, one time AD 03-13-17, Props by T & W Propeller, N/A by not installed AD 05-14-11, Props by So Cal Prop, N/A by not installed.																							
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<div style="text-align: right;">             1713979            IA         </div>																																															

YEAR:  DATE	TOTAL TIME IN SERVICE	<b>Manufacturers' Mandatory Service Bulletins</b> Chronological Listing of Compliance and Method of Compliance
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APPENDIX 1. AIRWORTHINESS DIRECTIVE COMPLIANCE RECORD

\*Aircraft, Engine, Propeller, Rotor, or Appliance: Make \_\_\_\_\_ Model \_\_\_\_\_ Ser.No. \_\_\_\_\_

N 131US

6-10

AD Number and Amendment Number	Date Received	Subject	Compliance Due Date Hours/ Other	Method of Compliance	Date of Compliance	Airframe Total Time In Service at Compliance	Component Total Time In Service at Compliance	One- Time	Recur- ring	Next Comp. Due Date Hours/ Other	Authorized Signature, Certificate Type and Number	Re
N131US, 06-15-10, 262.3 Hobbs, 262.3 TTAF Engine & Propeller. C/W Mooney 100 hr type Inspection Checklist. Airworthiness Directives C/W through issue 19:, 12/13 C/W AD 04-10-14, Lyc Prop Strike, N/A by on condition C/W AD 08-14-07 Ext. Mounted Fuel Injector lines, Next due @ 362.3 TT AD 07-05-04, Upper Engine mount PCW 12/18 /06 SB M20-291a & SB M20-292, one time AD 09-26-12, ECI cyl assemblies P/N AEL65102 series N/A by not installed												

*Robert D. [Signature]*  
1713955 DA



YEAR:

APPENDIX 1. AIRWORTHINESS DIRECTIVE COMPLIANCE RECORD

\*Aircraft, Engine, Propeller, Rotor, or Appliance: Make \_\_\_\_\_ Model \_\_\_\_\_ Ser.No. \_\_\_\_\_

N 131US

DATE

AD Number and Amendment Number	Date Received	Subject	Compliance Due Date Hours/Other	Method of Compliance	Date of Compliance	Airframe Total Time In Service at Compliance	Component Total Time In Service at Compliance	One-Time	Recurring	Next Comp. Due Date Hours/Other	Authorized Signature, Certificate Type and Number	Remark
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N131US, 08-20-11, 296.2 Hobbs, 296.2 TTAF, Engine & Propeller. CW Mooney 100 hr type Annual Inspection Checklist. Airworthiness Directives CW through issue 11, 16/17  
 CW AD 04-10-14, Lyc Prop Strike, N/A by on condition  
 CW AD 08-14-07 Ext. Mounted Fuel Injector lines, Next due @ 396.2 TT  
 AD 09-02-03, Precision RSA-5 Fuel Injection unit, N/A by not installed Time frame, one time  
 AD 09-26-12, ECI Cly P/N 65102 series, N/A by not installed.  
 AD 07-05-04, Upper Engine mount PCW 12/18 /06 SB M20-291a & SB M20-292, one time  
 AD 11-13-03, Machining debris, N/A by not installed.  
 AD 11-15-10, AVStar Fuel system, N/A by not installed.


☐ Removal or Required Exchange for
Optional  
OptionalOptional  
OptionalOptional  
OptionalOptional  
OptionalOptional  
OptionalOptional  
Optional

1713979-DA