

N231- Book 2



The Standard

AIRCRAFT LOG

 **ARTEX AIRCRAFT SUPPLIES, INC.**
14405 Kell Rd. NE Aurora, OR 97002
(503) 678-7929 800-547-8901

LOG BOOK ENTRY _____

E.L.T. BATTERY REPLACEMENT DATE Aug / 2008

ASA-SA-1

Aircraft Record General Information

Manufacturer Mooney Model M20K

Serial 25-0026 Registration Number N231CA

Date of Manufacture _____

Engine(s) currently installed:

Manufacturer _____ Model _____ Serial _____

Manufacturer _____ Model _____ Serial _____

Propeller(s) currently installed:

Manufacturer _____ Model _____

HUB Model _____ Serial _____ Serial _____

Blade Model _____ Serial _____ Serial _____ Serial _____

Blade Model _____ Serial _____ Serial _____ Serial _____

YEAR:

Current Weight and Balance Information

DATE

L-08 AIRCRAFT MAINTENANCE
424 N. Civic Dr. Palm Springs, CA. 92262

Date 10/9/03

MODEL Mooney M20K

S/N 25-0026

N 231CA

HOBBS 614.6

AFTT 1247.0

Removed existing side windows glass. Left front pilot window, P/N 340285-037. Vent window, P/N 310016-009. Right front door window, P/N 340285-039. Left rear window, P/N 340285-033. Right rear window, P/N 340285-034. Installed the following replacement glass from L.P. Aero. Left front pilot window, P/N 577.250. Vent window, P/N 563.375. Right front door window, P/N 564.250. Left rear window, P/N 565.250. Right rear window, P/N 566.250. All glass is solar gray. Replacement windows where installed per Mod Works, STC# SA00133AT. Revised weight and balance, and equipment list. See also Form 337 filed this date.

Sign. *Madray F. Paumley* A&P 13588626
--END--

YEAR: 2003 DATE	RECORDING TACH TIME HOBBS	TODAY'S FLIGHT	TOTAL TIME IN SERVICE DIFF 632.4	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.)
8/12/03	576.4		1208.8	Replaced left hand main tire with Concord 6.00-6 and tube with new 6.00-6 tube. <i>mate F. Pat A&P 54959526</i>
10/12/03	629.0		1261.4	Removed nose gear shock discs & reinstalled shock discs 3 new p/n 530021-000 with new collar p/n 510050-005 & bolt p/n 101605 (AN5-16A) & Nut p/n AN365-524. Removed main landing gear shock discs (LH). Reinstalled 4 shock discs p/n 530021-000. Reinstalled new bushing p/n 914007-005 & bolt p/n 102855 (AN9-25A), Nut p/n M520044N9. Retraction test done & found airworthy & return to service. <i>Rodney & Pauley A&P 135388626</i> END

YE



L-08 AIRCRAFT MAINTENANCE
Cessna Authorized Service Center
424 N. Civic Dr. Palm Springs, CA. 92262

or Repair

DA

Date 11/14/2003
MODEL Mooney M20K
S/N 25-0026
N 231CA
HOBBS 632.7
TTAF 1265.2

Installed J.P. Instruments, EGT Scanner with fuel flow, P/N EGT-701 per STC# SA 2586NM. Used approved installation manual #103, Rev-C, printed 09/08/03, approved 06/17/1999 and completed work in accordance with AC43.13-1A & 1B. Added supplement to flight manual. Revised equipment list and weight & balance. Relocated ADF instrument head. Relocated door seal switch. Relocated blind encoder. Complied with AD 98-24-11, Aileron Control Links, by replacement of links with reinforced links, see yellow tag for links with aircraft records. Repetitive inspections per this AD no longer apply. Replaced ELT battery, and tested per FAR 91.207. ELT battery replacement due 11/05. Removed and reinstalled RH wing tip strobe, after repair by Lake Aero Styling, see yellow tag for repair with aircraft records. Replaced all instrument panel shock mounts on pilot's side, P/N J6984-64.

Sign. *Rodney Hendley* A&P 135388626

--END--

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.)

Date 02/13/2004
 MODEL M20K
 S/N 25-0026
 N 231CA
 HOBBS 682.6
 TT 1315.1

Removed and replaced voltage regulator, P/N VR415 Rev. F. Run aircraft, operational check good.

Sign.  A&P 467336414

--END--

CROWNAIR
FAA Approved Repair Station #CWNR273K
3753 John J. Montgomery Dr.
San Diego, CA 92123

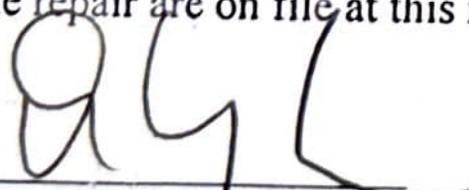
Reg. #. N231CA
Date: June 4, 2004

Model: M20K
Tach: 727.0

S/N: 25-0026
Total: 1359.5

Completed **Annual Inspection**. Performed ELT inspection in accordance with **FAR 91.207 (d)** and found to be in compliance, **battery** replaced due again **November 2005**. Replaced fuel cap o-rings. Greased all wheel bearings. Shimmed nose gear steering horn. Resealed right bottom inboard fuel access plate. Repaired right and left cowl flap hinges. Replaced right brake linings. Installed the missing spacers on airon attach rod ends.

I certify that this aircraft has been inspected in accordance with a **Annual Inspection** and has been determined to be in airworthy condition. Pertinent details of the repair are on file at this repair station under Work Order # LT-o4-02201..


Authorized Representative

Aircraftsman

7000 Merrill Ave
Hangar A480/Box 100
Chino, CA 91710

Chino Airport
(909) 393-0884
(909) 393-0494 FAX

N-Number: N231CA
Model Number: Mooney M20K
Serial Number: 25-0026

Airframe

Date: 7/27/04
Hobbs: 553.30
Airframe TT: 1385.70

Replaced lower skin on right hand aileron In Accordance With FAA Form 337, dated July 27, 2004.

1. Reinstalled repaired aileron in accordance with Mooney Service manual.
2. Aircraft flight tested and found satisfactory.

I Certify I have Inspected repairs to this aircraft and Find It To Be Airworthy.

Mark Wilson A&P1783644131A



YEAR: 12/10/04 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.)
12/10/04	Hobbs 831.40	/	1663.80	Rewrapped existing oxygen bottle high pressure inlet copper line & high pressure to gauge - add clamped tubes to secure added a 7m male 1/8 to PB filler with schrader at bottle, installed new oxygen low pressure tubing in cabin and installed 4 new scott 23599-12 O2 outlets with needle valve, a scot flow meters scott type plug ms. performed leak check on all tubing & fittings and performed flow check at all four outlets, all checks good. end - CR ADP 572399477

YEAR:

DATE



L-08 AIRCRAFT MAINTENANCE
Cessna Authorized Service Center
424 N. Civic Dr. Palm Springs, CA. 92262

Date 12/10/2004
MODEL Mooney M20K
S/N 25-0026
N 231CA
HOBBS 831.40
AFTT 1663.80

Serviced battery. Neutralize acid corrosion in battery box. Check electrical connections, and alternator for security and condition. Found OK. Visually inspect wiring and grounding in engine compartment. Remove alternator to inspect drive coupling, found OK. Remove alternator brush pack, and clean stator contact area. Inspect brushes. Reinstall brush pack. Reinstall alternator. Replace 70A main alternator circuit breaker with new from Mooney Aircraft. Run aircraft with electrical diagnostic equipment attached. Adjust voltage regulator to specifications. All electrical operations OK. Jacked aircraft. Removed belly pan. Inspected relays, gear motor and electrical connections. Inspected and tested gear handle switch. Checked landing gear circuit breakers and electrical connectors at breakers for security and condition. Swung gear. All operations normal. Replaced LH heater shroud, P/N 640289-007. Replaced both lower cowling center bumpers, P/N J7444-34.

Sign. *Rodney Samley* A&P 135388626
--END--



L-08 AIRCRAFT MAINTENANCE
Cessna Authorized Service Center
424 N. Civic Dr. Palm Springs, CA. 92262

YEAR:

DATE

Date 08/12/05
MODEL Mooney M20K
S/N 256-0026
N 231CA
HOBBS 893.6
AFTT 1526.1

Airframe inspected in accordance with a 100hr/annual inspection as per FAR43 appendix D & using Mooney Maintenance Manual as a guide. Removed inspection plates, checked cables, pulleys, chains, pushrods, bell cranks. Lubed as required, reinstalled access plates. Service battery. Repacked all wheel bearings. Replaced nose gear bearings and races. Replaced RH main gear brake disc. Replaced LH main gear brake pads. Replaced various screws for inspection plates with new. Removed and reinstalled #2 Com Radio after repair by Jetsource Avionics, under W/O# AF05-15486. Serviced aircraft oxygen system. Re-bushed and replaced bolts on nose gear (see W/O for specific part numbers). Steering horn assembly, P/N 720095-001, was overhauled by Lake Aero Styling and Repair, under W/O# 002-26 (see yellow tag with aircraft records). Replaced RH NLG door rod end a dorr, P/N F34-14N. Reomved and reinstalled engine mount after repair by Dynamo Aviation, under W/O# XXXX. Resealed LH & Rh brake master cylinders, and serviced and bled brakes. Replaced fasteners and receptacles for rear compartment access.

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YEAR:	RECORDING TACH TIME	TODAY'S FLIGHT	TOTAL TIME IN SERVICE	Description of Inspections, Tests, Repairs and Alterations
DATE				Entries must be endorsed with Name, Rating and Certificate Number of Technician or Repair Facility. (See back pages for other specific entries.)

-- CONT --

Cleaned, neutralized, repaired and painted battery box cover. Make small epoxy repair to RH wheel well fairing. Replaced bolts and bushings for stabilator hinge, as well as link, P/N 740170-003, and flex duct, P/N 740156-003. Repair broken corners on flap access panels. Removed and replaced tail strobe light power supply box, P/N 701295-3A. Installed overhauled unit supplied by Kelly Aerospace, overhauled under their W/O# APS-25765. Resecured loose ground wire for RH wing tip strobe. Remarked faded compass correction card. Replaced lower cowling forward bumper, P/N J7444-34. Replaced landing gear push rod boots at fuselage, P/N L560070-001. Removed and reinstalled co-pilot's seat belt after re-webbing by Beltmakers, W/O# 40587 (see maintenance release with aircraft records). Replace trim wheel drive chain cover, P/N K740227-001. Make repairs to induction air-box, and alternate air door. Replacement assembly on order. Completed gear swing. Normal and emergency extension cycles OK. Runup completed. All operations OK. FAR 91.411 & FAR 91.413 Pitot Static and Transponder tests due now. Checked ELT per FAR 91.207(d), battery due 11/05. AD's checked through this date. AD76-07-12, Bendix Ignition Switch, C/W by ops. check. Next due 1626.1 AD84-26-02, Paper Induction Air Filters, C/W by filter replacement, next due 2026.1. AD85-24-03, Fuel Tank Bays & Rib Station Inspection, C/W by inspection. Next due 1626.1. Please also see signed compliance list with aircraft records. All repairs completed in accordance with Mooney Maintenance Manual. Further details can be found on W/O# 5019 on file at this facility. Aircraft found to be airworthy and approved for return to service.

Sign *Robney Samley* A&P 135388626

--END--

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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DATE

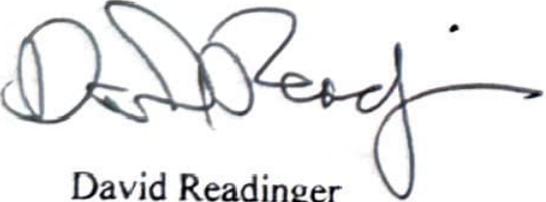


L-08 AIRCRAFT MAINTENANCE
 Cessna Authorized Service Center
 424 N. Civic Dr. Palm Springs, CA. 92262

Date 08/12/05
 MODEL Mooney M20K
 S/N 25-0026
 N 231CA
 HOBBS 893.6
 AFTT 1526.1

I certify that this aircraft has been inspected in accordance with an annual inspection per FAR 43 appendix D & using the Mooney Maintenance Manual as a guide and was determined to be in an airworthy condition.

Sign *Robney Hamley* A&P 135388626 IA
 --END--

YEAR: _____ DATE	RECORDING TACH TIME	TODAY'S FLIGHT	TOTAL TIME IN	Description of Inspections, Tests, Repairs and Alterations <small>Entries must be entered with Name, Rating and Certificate Number of Technician or</small>	Repair
				  <p data-bbox="1276 291 1780 383">DESERT AERONAUTICS PALM SPRINGS AIRCRAFT MAINTENANCE</p> <p data-bbox="1472 399 1703 468">424 NORTH CIVIC DRIVE PALM SPRINGS, CA 92262 PHONE 760 323 7036 FAX 760 323 7096</p> <p data-bbox="632 567 1037 739">Date 4/17/06 MODEL Mooney M20K S/N 25-0026 N 231CA</p> <p data-bbox="1493 575 1738 658">TACH HOBBS 975.8</p> <p data-bbox="632 750 1787 877">On this date replaced nose tire installed new 5:00 X 5 6 ply Air Trac Tire and new 5:00 X 5 tube. Leak ck OK—This A/C is OK to return to Service—</p>  <p data-bbox="632 1026 764 1106">Sign. --END--</p> <p data-bbox="884 1026 1157 1072">David Readinger</p> <p data-bbox="1409 1034 1493 1072">A&P</p> <p data-bbox="1640 1034 1829 1072">206463594</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 (Entries must be dated for other specific entries)
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DESERT AERONAUTICS PALM SPRINGS
 AIRCRAFT MAINTENANCE

124 NORTH GINK DRIVE
 PALM SPRINGS, CA 92262
 PHONE 760-323-7030
 FAX 760-323-7090

Date 8/23/06
 MODEL Mooney M20K
 S/N 25-0026

TACH
 HOBBS 1027.2
 AFTT 1659.7

Airframe inspected in accordance with a 100hr inspection per Far 43 appendix D and using the Mooney Maintenance Manual as a guide. Repacked all wheel bearings, replaced Left & Right brake pads. Installed a new Right main tire, serviced all tires, lubricated all controls, pulleys and chains as required. Replaced the ELT battery due date August 2008 and tested per Far 91.207 (d). Serviced the brakes, replaced the vacuum system filters and serviced the battery.

Sign.

--End--.

Chris Arnold

IA 572399477

YEAR:	RECORDING TACH TIME	TODAY'S FLIGHT	TOTAL TIME IN SERVICE	Description of Inspections, Tests, Repairs and Alterations
DATE				Entries must be endorsed with Name, Rating and Certificate Number of Technician or Repair Facility. (See back pages for other specific entries.)



DESERT AERONAUTICS PALM SPRINGS
AIRCRAFT MAINTENANCE

424 NORTH CIVIC DRIVE
PALM SPRINGS, CA 92262
PHONE 760-323-7036
FAX 760-323-7096

Date 8/23/06
MODEL Mooney M20K
S/N 25-0026
N 231CA

TACH
HOBBS 1027.2
AFTT 1659.7

I certify that this airframe has been inspected in accordance with an annual inspection per FAR 43 appendix D and using the Mooney Maintenance Manual as a guide and was found to be in an airworthy condition.

Sign. *Chris Arnold*
--End--

IA 572399477

YEAR:	RECORDING TACH TIME	TODAY'S FLIGHT	TOTAL TIME IN SERVICE	Description of Inspections, Tests, Repairs and Alterations
DATE	HOBBS		AFTT	Entries must be endorsed with Name, Rating and Certificate Number of Technician or Repair Facility. (See back pages for other specific entries.)
07/21/07	1044.5		1677.0	Removed Aluminum lower fuselage fairings p/n 310124-505, 310235-003, 310125-000 and 310236-501. Replaced the following parts with new parts of same number 210108-009, 210108-007, 310324-501, 310324-503. Installed new outplates to lower fairing supporting structures on A/F. Installed, "used" serviceable one piece "smooth belly" lower fairing p/n 310322-501. See form 337 7/21/2007. All work completed I.A.W. AC 43-13 and Mooney Service & Illustrated Parts Catalogue. A/c returned to service <u>Paul Harper</u> A+P 3128359 I.A.

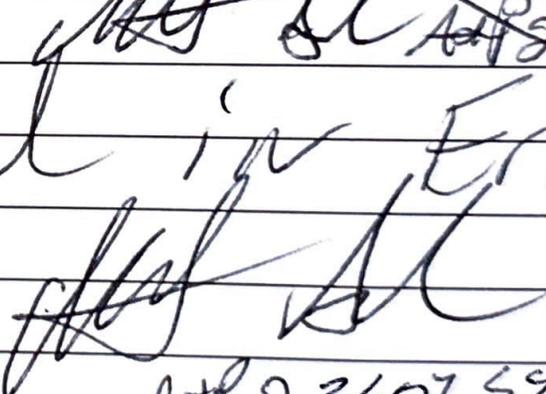
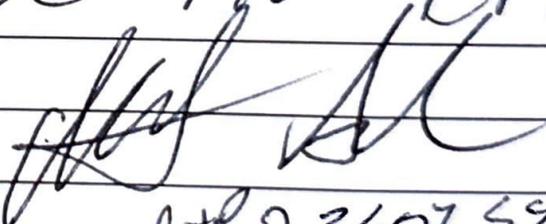
YEAR: _____ DATE	RECORDING TACH TIME HOTBBS	TODAY'S FLIGHT	TOTAL TIME IN SERVICE AFTT	Description of Inspections, Tests, Repairs and Alterations Entries must be endorsed with Name, Rating and Certificate Number of Technician or Repair Facility. (See back pages for other specific entries.)
9/1/07	1057.65		1690.15	<p>This airframe has been inspected in accordance with a 100 hr inspection as detailed in FAR 43 Appendix D and the Mooney Service Manual. Removed Removed all airframe access panels. Inspected all flight control cables, pulleys and pushrods. Inspected all flight control surfaces and lubricated all systems as required. Inspected landing gear, wheels + brakes. Drained old brake fluid + replenished system with clean 5606 fluid. Brakes bled. Tested ELT per FAR 91.207 (d). Battery due replacement Aug. 2008. Serviced A/c battery.</p> <p>I certify that this aircraft was inspected I-AW a 100 hr insp and is in an airworthy condition</p>
	<p>Note: Removed scrapped Engine cowl flaps p/n 650210-501 and 650210-503. Replaced cowl flaps with used "serviceable cowl flaps of same part number</p> <p><i>Paul Harpes</i></p> <p>A+P 3128359.</p>			<p>in FAR 43 Appendix D and the Mooney Service Manual. Removed Removed all airframe access panels. Inspected all flight control cables, pulleys and pushrods. Inspected all flight control surfaces and lubricated all systems as required. Inspected landing gear, wheels + brakes. Drained old brake fluid + replenished system with clean 5606 fluid. Brakes bled. Tested ELT per FAR 91.207 (d). Battery due replacement Aug. 2008. Serviced A/c battery.</p> <p>I certify that this aircraft was inspected I-AW a 100 hr insp and is in an airworthy condition</p> <p><i>Paul Harpes A+P 3128359.</i></p>

YEAR: _____ DATE	RECORDING TACH TIME HOBBS	TODAY'S FLIGHT	TOTAL TIME IN SERVICE AFTT	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.)
9/1/07	1057.65		1690.15	I certify that this aircraft has been inspected in accordance with an ANNUAL
				inspection as detailed in FAR 43 Appendix D
				and per the Mooney Service Manual. This
				aircraft was found to be in an airworthy
				condition and is released back to service.
			next due AFTT 1790.15	
			next due at AFTT 1790.15	

Paul Harper A+P 3528359 I.A.

END

YEAR: _____ DATE	RECORDING TACH TIME	TODAY'S FLIGHT	TOTAL TIME IN SERVICE	Description of Inspections, Tests, Repairs and Alterations <small>Entries must be endorsed with Name, Rating and Certificate Number of Technician or Repair Facility. (See book pages for other specifications.)</small>
				 <div style="float: right;"> Tail # <u>N231CA</u> Date <u>2-7-2008</u> </div> <p>I certify that the pitot / static / transponder / altimeter and encoder inspections required by FAR 91.411 & 91.413 were performed this date and found to comply with FAR 43 Appendix E & F.</p> <p>Transponder Mfg <u>Collins TDR 950</u> SN <u>N/A</u> Encoder Mfg <u>AC/K 430</u> SN <u>88-478</u> Altimeter Mfg <u>United 5934P/A</u> SN <u>1G385</u></p> <p>Details of this inspection are on file at this repair station under Work Order/Invoice # _____.</p> <p>The maintenance identified above was performed in accordance with FAA regulations and is approved for return to service.</p> <p>By: <u>W. H. Sparks</u> Franklin Avionics / FAA CRS # 68FR103B</p>

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.)
6-23-09				Removed & Replaced Hobbs meter
Hobbs	0000.00			with new Hobbs. old Hobbs.
				Time 1206.0
				 
				 
				 Entered in Error.
				 
				 HP 235025903
				 HP 235025903

YEAR:

DATE

Southern Avionics & Communications, Inc.

CRS HW4R427M

Mobile Downtown Airport

2495-A Michigan Avenue / Mobile, AL 36615

repair

N# 231CA

WO# See Below

Date 08/04/08

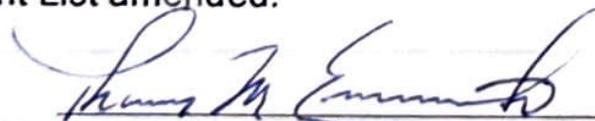
W.O. 86290 - Removed #1 Collins VHF-251 Com Receiver P/N 622-2078-001 S/N 15089, #1 Collins VIR-351 Nav Receiver P/N 622-2080-011 S/N 31086, Collins IND-350 Nav Indicator P/N 622-2082-003 S/N 6292, Collins GNS-350 Glideslope Receiver P/N 622-2004-001 S/N 6094, Collins RCR-650 ADF Receiver P/N 622-2091-001 S/N 7956, and Collins IND-650 ADF Indicator P/N 622-2536-001 S/N 6376. Installed Garmin GNS-430W Com/Nav/GPS WAAS P/N 011-01060-00 S/N 23420238 in #1 position.

W.O. 86291 - Installed Garmin GI-106A Nav Indicator P/N 013-00049-01 S/N F08-11171 in #1 position

Wiring and check out accomplished per Garmin Installation Manual P/N 190-00356-02, Rev E, dated March 2008. GPS is approved for IFR enroute, non-precision, and precision approaches. Weight and Balance/Equipment List amended.

W. White

Technician / HW4R427M



Inspector / HW4R427M

YEAR:

F
1
1

DATE

Southern Avionics & Communications, Inc.

CRS HW4R427M

Mobile Downtown Airport

2495-A Michigan Avenue / Mobile, AL 36615

N# 231CA

WO# 86292

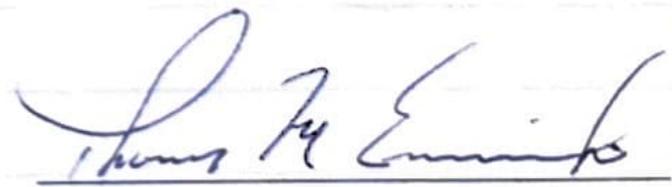
Date 08/05/08

Removed #2 Collins VHF-251 Comm Receiver P/N 622-2078-001 S/N 15012 and #2 Collins VIR-351 Nav Receiver P/N 622-2080-011 S/N 22082. Installed Garmin SL-30 Com/Nav/G.Slope system P/N 430-6040-303 S/N 25905103. Wiring and check out accomplished per Garmin Installation Manual P/N 560-0404-03a, Rev 03a, dated 08/26/03.

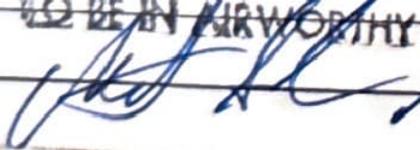
Weight and Balance/Equipment List amended.

W. White

Technician / HW4R427M



Inspector / HW4R427M

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.)
8-25-08	1148.7			4w 100 hour Inspection IAW maintenance manual checked all Red & Red Ends. 4w Retraction Test 4w AD's TO DATE R&R FLT BATT Due OCT 2010 R&R All Tires. Raw Engine and All Readings Normal.
				I CERTIFY THAT THIS <u>AIRCRAFT</u> HAS BEEN INSPECTED IN ACCOR- DANCE WITH A <u>ANNUAL</u> INSPECTION AND WAS DETERMINED TO BE IN AIRWORTHY CONDITION.
				 6722502503FA.

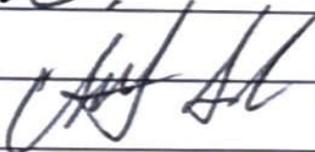
THIS ELT EQUIPPED WITH ALKA-
LINE BATTERY PACK P/N BP-1020



REPLACE BY

MERL, INC. 1777 N. Colony Rd. P.O. Box 188 Meriden, CT 06450
 WARNING: DO NOT DISCARD BATTERY IN HEAT OR FIRE!

OCT 10

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.)
6-13-09				
Hobbs	0000.0	New		Removed + Replaced Hobbs meter
Old Hobbs		1206.0		with new Hobbs. Old Hobbs. Time 1206.0.
				 ADP 235025E03

YEAR: _____
RECORDED
TACH
TIME
DATE

Southern Avionics & Communications, Inc.

CRS HW4R427M

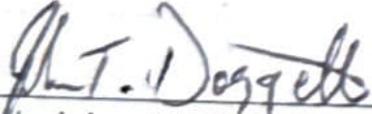
Mobile Downtown Airport

2495-A Michigan Avenue / Mobile, AL 36615

N# 231CA WO# 88083 Date 6/24/2009

Main software version 3.20 and GPS software version 3.2 has been installed in the GNS430W unit listed below IAW Garmin Software Service Bulletin 0848, Rev B, dated Mar 20th, 2009.

GNS430W: P/N: 011-01060-00, S/N: 23420238



Technician / HW4R427M



Inspector / HW4R427M

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.)
9-10-07	Hobbs - 22.4			<p>C/w 100 hour Inspection IAW maintenance manual checked all push-pull tubes + All lights serviced ACFT. C/w AD's Thru. 2009-18 Installed new ELT system 406^{MHZ} AK-451 c/w ELT ch per 91.207D. C/w Retraction Test.</p>
				<p>I CERTIFY THAT THIS <u>AIRCRAFT</u> HAS BEEN INSPECTED IN ACCORDANCE WITH A <u>ANNUAL</u> INSPECTION AND WAS DETERMINED TO BE IN AIRWORTHY CONDITION.</p>
				<p><i>[Signature]</i> AIP 235025903FA</p>

YEAR: <u>2009</u> 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.)
12-04-09	44.4			NEW BATTERY - GILL

Date: 7/06/2010, Aircraft N231CA; Type: M-20K; S/N: 25-0026; Hobbs: 1072 00; Tach: 0 00; Total Time: 0 00
 Updated the main software on the GNS-430W; part# 011-01060-00; serial# 23420238 to version 3.30 IAW
 manufacturer's Software Service Bulletin #0918, Rev. A, dated August 4, 2009. Provided the customer with a new
 AFMS supplement P# 190-00356-03, Revision B, Dated 7/31/2009, and upgrade supplement 3 30 P# 190-0356-34
 for insertion into the aircraft POH and pilots guides.

This aircraft/component is approved for return to service for the work listed above. Pertinent details on the work
 performed are held at this Repair station under our WO# 8744

Clayton Caessens
 Clayton Caessens RP2527453
 Blue Angel Aviation, FAA CRS B4UR140N

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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Date: 7/06/2010; Aircraft: N231CA; Type: M-20K; S/N: 25-0026; Hobbs: 1072.00; Tach: 0.00; Total Time: 0.00
 Performed the required pitot/static system tests as required by FAR's 91.411 and 91.413, and was done IAW FAR 43, appendix E and F as follows:

Certified the Aeronomic altimeter, part# 101627-01696, serial# C115044 to an altitude of 27,000 feet IAW FAR 43, appendix E; Performed the Automatic Pressure Altitude Reporting Equipment Tests required by FAR 43, Appendix E, between the altimeter and encoder; Certified the Collins TDR-950 transponder, part# 622-2092-001, serial# 7081, to FAR 43, appendix F. Certified the static system for proper operation and leakage tests as required by FAR 91.411 IAW FAR 43 appendix E.

Completed all required log book entries. Your next required inspection will be due before 7/31/2012.

This aircraft/component is approved for return to service for the work listed above. Pertinent details on the work performed are held at this Repair station under our WO# 8737


 Clayton Caessens RP2527453
 Blue Angel Aviation, FAA CRS B4UR140N

Aircraft: N231CA
Model: M20K
Serial: 25-0026

**Pensacola
Aviation
Center, L.L.C.**



Date: 10-6-2010
Tach Time:
Hobbs Time: 89.0
Total Time: 1937.4

- 1) C/W ANNUAL INSPECTION IN ACCORDANCE WITH FAR 43 APPENDIX.
- 2) REMOVED FOR HYDROSTATIC INSPECTION. REINSTALLED AFTER HYDRO, PURGED SYSTEM. SERVICED TO 1850. COMPLETED LEAK CHECK.
- 3) INSPECTED AND TESTED THE ELT, P/N AF-451-(AF) (AP) (S) REFERENCE AMERIKING DOCUMENT NO. IM-451, REV. NC-4.1C3. FUNCTIONAL TEST WAS NORMAL. MAIN BATTERIES EXPIRE 12-2014.
- 4) REPLACED ONE BEARING AND RACE IN NOSE WHEEL.
- 5) REPLACED THE O-RINGS FOR BOTH FUEL CAPS, REFERENCE MOONEY S.B. M20-229A.
- 6) ADJUSTED THE LEFT MAIN LANDING GEAR DOWN PRELOAD PER M/M 32-30-02. INSTALLED NEW MECHANICAL DOWN STOPS P/N 560252-9, AND 1 SHIM EACH SIDE P/N 560252-11, ADJUSTED MECHANICAL UP STOP FOR PROPER CLEARANCE REF M/M 32-30-02.
- 7) INSTALLED A NEW NAV LIGHT SWITCH/CIRCUIT BREAKER P/N 930023-001, FUNCTIONAL CHECK WAS NORMAL.

I CERTIFY THAT THIS Airframe HAS BEEN INSPECTED IN ACCORDANCE WITH A Annual INSPECTION AND DETERMINED TO BE IN AN AIRWORTHY CONDITION

MAINTENANCE RELEASE

The aircraft, airframe, aircraft engine, propeller, or appliance 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

work order W0-12550 Date 10-06-10 Signed John W. Gray

Pensacola Aviation Center, Pensacola Regional Airport, Pensacola, FL. 32513
Repair Station KRTR895

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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MONARCH AVIATION, INC.
 627 AIR PARK ROAD, DEFUNIAK SPRINGS, FLORIDA 32435.
 F.A.A. CERTIFIED REPAIR STATION # V9MR 280Y.
 MOONEY M20K. N231CA. TT: 0089.9. WO. 3045. DATE. OCTOBER 8, 2010.

TRANSPONDER/ENCODER SUSPECT. ALTITUDE REPORTING SYSTEM TRANSMITTING
 ERRONEOUS ALTITUDE INFORMATION. CARRIED OUT FUNCTIONAL TEST AND
 CONFIRMED FAULT. FAULT TRACE TO BROKEN GREY CODE WIRE TO TRANSPONDER.
 RETERMINATED BROKEN WIRE. CARRIED OUT FUNCTIONAL TEST OF THE
 TRANSPONDER/ENCODER SYSTEM AND CONFIRMED CORRECT OPERATION AND
 INDICATION.



AUTHORISED SIGNATURE FOR **MONARCH AVIATION, INC.**

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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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MAINTENANCE RELEASE.

THE MAINTENANCE CARRIED OUT ON THE AIRCRAFT IDENTIFIED ABOVE WAS CARRIED OUT AND INSPECTED IN ACCORDANCE WITH CURRENT MAINTENANCE REGULATIONS OF THE FEDERAL AVIATION ADMINISTRATION. THE ABOVE AIRCRAFT IS APPROVED FOR RETURN TO SERVICE. RELEVANT DETAILS OF THE WORK CARRIED OUT ARE HELD ON FILE AT THIS REPAIR STATION UNDER: WORK ORDER # 3045. DATED: OCTOBER 8, 2010.



AUTHORISED SIGNATURE FOR **MONARCH AVIATION, INC.**

Aircraft: N231CA
Model: M20K
Serial: 25-0026

**Pensacola
Aviation
Center, L.L.C.**



Date: 11/15/2011
Tach Time:
Hobbs Time: 140.3
Total Time: 1988.8

- 1) C/W ANNUAL INSPECTION IN ACCORDANCE WITH FAR 43 APPENDIX . D.
- 2) INSPECTED AND TESTED THE INSTALLED ELT, MODEL NUMBER AK-451, P/N AK-451-(AF)(AP)(S)-2, S/N 2573. FUNCTIONAL CHECK WAS NORMAL, BATTERIES EXPIRE 12/2014, REFERENCE AMERI-KING DOCUMENT NO. IM-451, REV NC-4.1E.
- 3) C/W SB M20-229A BY REPLACING FUEL CAP O'RINGS.
- 4) INSTALLED NEW CROSSOVER HEAT SHROUD SCAT HOSE WITH NEW.
- 5) REPLACED TIRE WITH NEW, 600X606PR MICHELIN, SERVICED WITH DRY AIR, SERVICED WHEEL BEARINGS AND REINSTALLED.
- 6) REPLACED L&R OUTBOARD FUEL TRANSMITTER GASKETS WITH NEW. NO LEAKS NOTED.
- 7) REMOVED FRONT SIDEWALL FOR ACCESS. REPLACED FITTING P/N AN816-4D. REINSTALLED SIDEWALL.

I CERTIFY THAT THIS Airframe HAS BEEN INSPECTED IN ACCORDANCE WITH A Annual INSPECTION AND DETERMINED TO BE IN AN AIRWORTHY CONDITION.

MAINTENANCE RELEASE

The aircraft, airframe, aircraft engine, propeller, or appliance 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 work order W0-12937 Date 11-15-11 Signed John W. Gnan

Pensacola Aviation Center, Pensacola Regional Airport, Pensacola, FL. 32513
Repair Station KRTR805F

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 Facility. (See back pages for other specific entries.)
DATE				

Blue Horizon Aviation

12-13-2012

12301 Airport Road
Bay Minette, AL 36507

N231CA
Airframe
Hobbs Time: 204.3
Aircraft Total Time: 2052.8
Airframe S/N: 25-0026

205-705-4974

Complied with a 100 hour/Annual Inspection IAW FAR 43 Appendix D. Lubricated airframe IAW Mooney Maintenance Manuals. Right Main tire leaking. Replaced tube assy. p/n: 092-315-0. Replaced Vacuum filter. p/n: 1J7-1. Replaced Instrument filter. p/n: B3-5-1. Complied with AD's: 2011-26-07, 2012-03-06 and Ad 2012-05-09. Complied with FAR 91-207 ELT inspection. Post run leak and operation checks good. No other defects noted at this inspection.

I certify that this aircraft has been inspected in accordance with FAR 43 appendix D and 100 hour/Annual Mooney inspection manuals and was determined to be in an airworthy condition.



Doran A Pedri

A&P 3205413 IA

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.)

MONARCH AVIATION REPAIR STATION # V9MR 280Y

The Altimeter System Test and Inspection required by FAR 91.411
were performed on this date and found to comply with FAR Part 43
Appendix E Paragraphs a and b. Tested to 16,000 Ft.

Details of this inspection are held on file at Monarch Aviation, Inc

on Work Order # 3337 Date NOV 20, 2013

Authorized Signature 

YEAR: _____ DATE	RECORDING TACH TIME	TODAY'S FLIGHT	TOTAL TIME IN SERVICE	Description of Inspections, Tests, Repairs and Alterations <small>Entries must be endorsed with Name, Rating and Certificate Number of Technician or Repair Facility. (See back pages for other specific entries.)</small>
				MONARCH AVIATION REPAIR STATION # V9MR 280Y
				The ATC Transponder and Automatic Pressure Altitude Reporting
				Equipment Tests and Inspections required by FAR 91.411 and 91.413
				were performed on this date and found to comply with FAR Part 43
				Appendix E and F.
				Details of this inspection are held on file at Monarch Aviation, Inc.
				on Work Order # <u>3337</u> Date <u>NOV 20 2013</u>
				Authorized Signature <u></u>

24 Dec 2013 255.3 Hobbs 2103.8 TT

Performed 100 hour/Annual inspection I.A.W. Mooney MM .
AD's checked thru this date, no new or recurring AD's due at
this time. ELT checked IAW FAR 91.207, battery due Dec
2014. Replaced landing light P/N PLED1L and taxi light P/N
PLED1T

I certify that this Airframe has been inspected IAW an Annual
inspection and found to be in an airworthy condition.



Lee Munshower
AP167666230IA

Tests, Repairs and Alterations

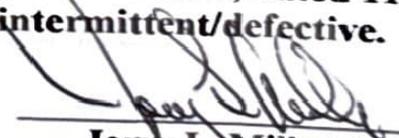
(Rating and Certificate Number of Technician or Repair
Specific entries.)

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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Date: 3-11-2014
Hobbs: 263.8 hrs.

Airframe Log entry for N231CA

Remove defective starter p/n MCL-6501R, s/n W-M102345. Install overhauled starter p/n MCL-6501, s/n H-N110139 using new o-ring. See FAA form 8130-3 by RS#1HZR769B, W.O.#M254220, dated 11-11-2013. Perform operational test. Starter switch intermittent/defective.

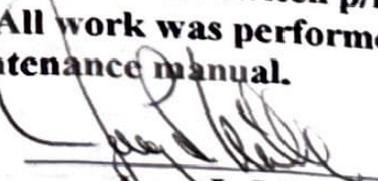


Jerry L. Miller A&PIA3633839

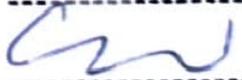
Date: 3-14-2014
Hobbs: 263.8 hrs.

Airframe Log entry for N231CA

Remove defective starter switch. Install new starter switch p/n 10-357210-1. Perform operational test. Satisfactory. All work was performed as per Mooney Aircraft Co. M20K series maintenance manual.



Jerry L. Miller A&PIA3633839

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>MONARCH AVIATION REPAIR STATION # V9MR 280Y</p> <p>The Altimeter System Test and Inspection required by FAR 91.411 were performed on this date and found to comply with FAR Part 43 Appendix E Paragraphs a and b. Tested to <u>16,000</u> Ft.</p> <p>Details of this inspection are held on file at Monarch Aviation, Inc on Work Order # <u>3639</u> Date <u>MAR 4, 2016</u></p> <p>Authorized Signature <u></u></p>

YEAR:

DATE

TOTAL
TIME IN
SERVICE

Reference of Major Repairs and Major Alterations To

FAA Form 337 by Date, or to the Work Order by Number and the Approving Agency

MONARCH AVIATION REPAIR STATION # V9MR 280Y

The ATC Transponder and Automatic Pressure Altitude Reporting Equipment Tests and Inspections required by FAR 91.411 and 91.413 were performed on this date and found to comply with FAR Part 43 Appendix E and F.

Details of this inspection are held on file at Monarch Aviation, Inc.

on Work Order # 3639 Date MAR 4, 2016

Authorized Signature [Signature]

YEAR: _____ DATE	TOTAL TIME IN SERVICE	Reference of Major Repairs and Major Alterations To FAA Form 337 by Date, or to the Work Order by Number and the Approving Agency
02/11/16	16	Old Hobbs time not recorded. Using last know T.T. for "O" time install T.T. 2226.9
		Level 6 replaced hobbs with P/N 25001.
		Re finished blue to white paint, Blue code
		PR4 white code 8624. All work C/W
		F/A Moway M/M to VTC 4313
		

YEAR:

TOTAL

Reference of Major Repairs and Major Alterations To

03 Mar 2017 41.0 Hobbs 2283.9 TT

Approving Agency

DA

Performed 100 hour/Annual inspection I.A.W. Mooney MM.
AD's checked thru this date, no new or recurring AD's due at this
time. ELT checked IAW FAR 91.207, battery due Dec 2019.
Replaced induction air filter P/NAM108365FP IAW Mooney MM.

I certify that this Airframe has been inspected IAW an Annual
inspection and found to be in an airworthy condition.



Lee Munshower
AP167666230IA

YEAR:

A.D.
NUMBER

TOTAL
TIME IN
SERVICE

Airworthiness Directives

Chronological Listing of Compliance and Method of Compliance

DATE

19 Mar 2018 99.1 Hobbs 2342.0 TT

Performed 100 hour/Annual inspection I.A.W. Mooney MM.
AD's checked thru this date, no new or recurring AD's due at this
time. ELT checked IAW FAR 91.207, battery due Dec 2019.
Replaced 2 ea MLG tires P/N 6.00x6 6 ply IAW Mooney MM.

I certify that this Airframe has been inspected IAW an Annual
inspection and found to be in an airworthy condition.



Lee Munshower
AP167666230IA

YEAR:

TOTAL
TIME IN
SERVICE

Manufacturers' Mandatory Service Bulletins

Chronological Listing of Compliance and Method of Compliance

MONARCH AVIATION, INC.

627 AIR PARK ROAD, DEFUNIAK SPRINGS, FLORIDA. 32435.

F.A.A. CERTIFIED REPAIR STATION # V9MR 280Y.

MOONEY M20K. N231CA. HOBBS: 110.0. WO: 3976. DATE. JULY 13, 2018.

INSTALLED GARMIN GTX 335 TRANSPONDER. CARRIED OUT CONFIGURATION, AND FUNCTIONAL TEST OF THE GARMIN GTX 335 TRANSPONDER AND CONFIRMED CORRECT OPERATION AND INDICATION. FOR THE CERTIFICATION OF THE TRANSPONDER SEE NEXT LOG ENTRY. REF: FAA FORM 337 DATED JULY 13, 2018.



AUTHORISED SIGNATURE FOR **MONARCH AVIATION, INC.**

YEAR:

TOTAL
TIME IN
SERVICE

Equipment Addition, Removal or Exchange

MAINTENANCE RELEASE.

THE MAINTENANCE CARRIED OUT ON THE AIRCRAFT IDENTIFIED ABOVE WAS CARRIED OUT AND INSPECTED IN ACCORDANCE WITH CURRENT MAINTENANCE REGULATIONS OF THE FEDERAL AVIATION ADMINISTRATION. THE ABOVE AIRCRAFT IS APPROVED FOR RETURN TO SERVICE. RELEVANT DETAILS OF THE WORK CARRIED OUT ARE HELD ON FILE AT THIS REPAIR STATION UNDER: WORK ORDER # 3976. DATED: JULY 13, 2018.



AUTHORISED SIGNATURE FOR MONARCH AVIATION, INC.

- Removal of Optional Equipment
- Addition of Required-Exchanged for Optional
- Removal of Required-Exchanged for Optional

YEAR:	TOTAL TIME IN SERVICE	Equipment Addition, Removal or Exchange			
DATE		Item	Manufacturer's Name	Model	Serial Number

MONARCH AVIATION REPAIR STATION # V9MR 280Y

The Altimeter System Test and Inspection required by FAR 91.411 were performed on this date and found to comply with FAR Part 43 Appendix E Paragraphs a and b. Tested to 20,000 Ft.

Details of this inspection are held on file at Monarch Aviation, Inc on Work Order # 3976 Date July 13, 2018

Authorized Signature [Signature]

equipment
 Equipment
 Exchanged for Optional
 -Exchanged for Optional

equipment
 Equipment
 Exchanged for Optional
 Exchanged for Optional

equipment
 equipment

- Addition of Required-Exchanged for Optional
- Removal of Required-Exchanged for Optional

07 Apr 2019 2421.8 TT

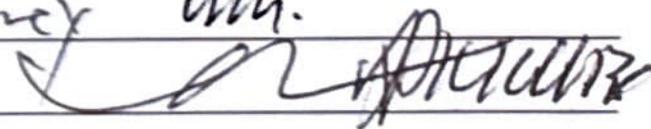
Performed 100 hour/Annual inspection I.A.W. Mooney MM.
 AD's checked thru this date, no new or recurring AD's due at this
 time. ELT checked IAW FAR 91.207, battery due Dec 2019.
 Replaced TIT probe P/N M-111 and antenna P/N CI-110-40-30
 IAW Mooney MM.

I certify that this Airframe has been inspected IAW an Annual
 inspection and found to be in an airworthy condition.


 Lee Munshower
 AP1676662301A

12 Apr 19 2422.9 TT

Resaved when
 left fuel tank on
 left wing IAW
 Mooney MM.



Notes

07 Apr 2019 2421.8 TT

Removed factory air/oil separator and installed Airwolf air/oil separator (STC SA02268CH) kit P/N ZZAFC-W311-B IAW II # AFC-W360 Rev. C, dated 08/28/2006, the ICA is included in this document.



Lee Munshower
AP167666230

10-16-19

INSTALLED NEW 11-01832
GILL BATTERY G-35 WITH
ACID.

Jerry D. Cross

03 May 2020 0173.2 hobbs and 2515.2 TT

Performed 100 hour/annual inspection IAW Part 43 App. D. AD's checked, no new or recurring AD's due at this time. ELT checked IAW 91.207, battery due Sep 2024. Replaced ELT battery P/N MN1300.

I certify that this airframe has been inspected IAW an Annual inspection and was determined to be in an airworthy condition.

A handwritten signature in black ink, appearing to read 'Lee Munshower', with a long horizontal flourish extending to the right.

Lee Munshower
AP167666230IA