

N231L LOG#3



The Standard

AIRCRAFT LOG

ASA-SA-1

Aircraft Record General Information

Manufacturer MOONEY **Model** M20K
Serial 25-0055 **Registration Number** N231L
Date of Manufacture 1979

Engine(s) currently installed:

Manufacturer CONTINENTAL **Model** TS10-360-GB **Serial** 237415-R
Manufacturer _____ **Model** _____ **Serial** _____

Propeller(s) currently installed:

Manufacturer MCCAULEY **Model** 2A34C216-B
HUB Model 2A34C216-B **Serial** 802740 **Serial** _____
Blade Model 90DHB-16E **Serial** 01021 **Serial** 01037 **Serial** _____
Blade Model _____ **Serial** _____ **Serial** _____ **Serial** _____

MISC INFORMATION FROM LOGS

AC HOBBS - 1087.5 AIRFRAME TOTAL TIME - 2788.2

ENGINE TOTAL TIME - 2677.2 ENGINE SMOH - 1160.4

PROP TOTAL TIME - UNKNOWN - PROP SMOH - 421.3

FACTORY REMAN ENGINE INSTALLED 11-12-1982 AT HOBBS 619.9

LAST ENGINE OVERHAUL 10-1-89 AT HOBBS 1529.2 (ENGINE TOTAL TIME AT O/H WAS 909.3 HRS)

CURRENT PROP INSTALLED 12-1-89 AT HOBBS 1529.2 (PROP TOTAL TIME AT INSTALL WAS NOT RECORDED)

LAST PROP OVERHAUL 10-4-02 AT HOBBS 666.2 (2 NEW BLADES INSTALLED)

Hobbs replaced 12-7-79 @ 98.9 with new 00.3

TTAF 98.9

12-18-17 @ 002.3

TTAF 100.9

2-10-92 @ 1602.1

TTAF 1703.0

AIR REPAIR

AIR REPAIR, INC. 29137 NEWNAM UNIT 8 • EASTON, MD 21601

YEAR:

DATE

Date: 5/12/2016; Aircraft: N231L; Type: MOONEY M20K; S/N: 25-0055; Hobbs: 1136.20; Work Done At - Airframe Time: 2836.90,

C/W ANNUAL INSP I.A.W. AIR REPAIR, INC. AIRCRAFT INSP CHECKLIST.

LUBRICATED ALL COUPLINGS OF PUSH PULL RODS AND FREED UP ROD ENDS. FREED UP CONTROL RODS ON YOKE AND LUBRICATED. FOUND EYEBALLS ON LEFT AND RIGHT YOKE SHAFTS FROZE UP; FREED UP AND LUBRICATED.

C/W A.D. 85-24-03(b) FUEL CAP INSP USING SB M20-229. NEXT DUE 2936.9 AFTT OR 5/2017.

C/W A.D. 76-07-12: PERFORMED VISUAL AND OPERATIONAL CHECK OF BENDIX IGNITION SWITCH, OPS CHECKED GOOD. NO DEFECTS NOTED AT THIS TIME. DUE RE-INSP IN 100 HRS TIS (2936.9 AFTT).

C/W A.D. 84-26-02: REPL INDUCTION AIR FILTER. NEXT DUE REPL 500 HRS TIS.

REPAIRED GEAR INDICATOR LAMP WIRING.

REPL 2 MISSING RIVETS FROM FUSELAGE SKIN ADJACENT RIGHT REAR WINDOW LOWER AFT CORNER.

REM LEFT MAIN TIRE P/N 600 X 6 AH, S/N B3E44807 AND INSTALLED NEW TIRE P/N 600 X 6 AH, X/N B3E64213 ON LEFT MAIN WHEEL.

ADJUSTED ELECTRIC FUEL PUMP IN SADDLE CLAMP TO REMOVE CHAFE POINT ON AIRFRAME.

INSTALLED NEW BRAKE PADS.

ADJUSTED LOWER GEAR DOOR TO CLOSE PROPERLY UPON RETRACTION AND OPEN ON EXTENSION.

INSTALLED NEW ALTERNATE AIR DOOR CABLE AND ADJUSTED.

REM VACUUM PUMP P/N 211CC, S/N 155749 AND INSTALLED NEW P/N RAP215CC, S/N A61615.

INSTALLED NEW BATTERY P/N G35, S/N G02896971. SERVICED AND CHARGED.

REPAIRED WIRING TO HOBBS SWITCH. INSTALLED NEW FUSE HOLDER.

Repair

YEAR:

DATE

AIR REPAIR

AIR REPAIR, INC. 29137 NEWNAM UNIT 8 • EASTON, MD 21601

Repair

REPAIRED ENG BAFFLING AS NECESSARY.

The aircraft, aircraft engine, or appliance identified above was repaired and/or inspected in accordance with current maintenance rules of the Federal Aviation Regulations and is approved for return for service for the work performed. ELT has been inspected IAW FAR 91.207 Par (d) and meets the requirements of this inspection.

Pertinent details of the repair are on file at this repair station under WORK ORDER NO. 16-0152

I certify that this Aircraft has had an ANNUAL INSPECTION and is airworthy at this time.

Signed

(Signature of authorized representative)

CRS#XR5R175Y

NOTE: factory rebuilt engine s/n 1032230
installed 5-12-16 by above entity
Hobbs: 1136.20
ITAF: 2839.2
TTE: 0.0

RB

YEAR: R
T
T
DATE

Henry Weber Aircraft Distributors, Inc.

Maintenance Release

N231L

S/N: 25-0055



Hobbs: 1188.6

Airframe Logbook

Reinstalled nav/directional display (S/N: I-W1757B) after repairs by Porter-Strait Instrument Co. Inc. on WO # 101968. Ground run and operational checks okay.

—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: 16238

Certified Repair Station No: DY1R103K

Inspector: Larry J. Snyder

Larry J. Snyder

Date: July 25, 2016

500-B Airport Road, Lancaster Airport, Lititz, PA 17543

ician or Repair

YEAR: RECORDING TODAY'S TOTAL
TACH FLIGHT TIME I
DATE

N231L Mooney M20K
LANCASTER AVIONICS INC. CRS # LN7R261N

I CERTIFY THAT THE ALTIMETER, ENCODER AND
STATIC SYSTEM TESTS REQUIRED BY FAR 91.411
HAVE BEEN PERFORMED I/A/W FAR 43 APPENDIX E
UNIT TYPE TESTED TO
#1 ALTIMETER United 20000
#2 ALTIMETER NA
ENCODER (S) ACK 20000
STATIC SYSTEM TEST DATE 10-18-16
SIGN [Signature] DATE 10-18-16

LANCASTER AVIONICS INC.

CRS # LN7R261N

CERTIFY THAT THE TRANSPONDER (S)
TEST REQUIRED BY FAR 91.413 HAS BEEN
PERFORMED I/A/W FAR 43 APPENDIX F
UNIT TYPE
#1 TRANSP KT76A
#2 TRANSP NA
SIGN [Signature]
DATE 10-18-16

LANCASTER AVIONICS, INC. 500-U AIRPORT ROAD LITITZ, PA 17543 CRS# LN7R261N
LOG ID# 4512 19-October-2016 WO# 21458/2 HOBBS 1227.3
N231L S/N 25-0055 MOONEY M20K

Pg 1 / 1

**** ITEM # 21458-2 REPAIR STATIC SYSTEM LEAKS ****
DISCREPANCY: STATIC SYSTEM HAS +500 FT/MIN LEAK WHICH EXCEEDS ALLOWABLE TOLERANCE.
ACTION: ISOLATED LEAKS TO A NUMBER OF DIFFERENT AREAS. RE-SEALED STATIC SYSTEM PORTS. FOUND STATIC SYSTEM DRAIN EXTREMELY CORRODED. CLEANED AND REMOVED CORROSION/DEBRIS AND REPLACED 'O' RINGS AND INTERNAL SPRING. REPAIRED COMPRESSION FITTINGS AT BOTH THE AUTOPILOT FLIGHT COMPUTER AND 'T' FITTING ON STATIC DRAIN. REPLACED FAULTY SECTION OF STATIC LINE HOSE IN TAIL OF AIRCRAFT. FINAL LEAK CHECK ANALYSIS IS WITHIN ALLOWABLE TOLERANCE WITH AN 8 FT/MIN LEAK @ 1,000 FT AGL.

[Signature]
KYLE REED

LANCASTER AVIONICS, INC. 500-U AIRPORT ROAD LITITZ, PA 17543 CRS# LN7R261N
LOG ID# 4587 12-December-2016 WO# 21602 HOBBS 1249.5
N231L S/N 25-0055 MOONEY M20K

Pg 1 / 1

**** ITEM # 21602-1 AIRSPEED, ALTIMETER & VSI ERRATIC ****

DISCREPANCY: AIRSPEED, ALTIMETER & VSI INDICATIONS ERRATIC.

ACTION: CHECKED AND CONFIRMED BLOCKAGE IN STATIC SYSTEM. FOUND WATER PRESENT IN THE STATIC SYSTEM CAUSING FAULT. DRAINED WATER FROM STATIC SYSTEM. AFTER DRAINING SYSTEM, FOUND A LOW SPOT IN STATIC SYSTEM CONNECTED TO AUTOPILOT FLIGHT COMPUTER FILLED WITH WATER. BLEW OUT STATIC LINES TO REMOVE ALL WATER. REWORKED STATIC LINES TO REMOVE 'LOW' SPOT NEAR THE AUTOPILOT COMPUTER TO PREVENT FUTURE WATER ACCUMULATION. PERFORMED REQUIRED STATIC SYSTEM LEAK CHECK. STATIC SYSTEM FAILED LEAK CHECK DUE TO EXCESSIVE LEAK. SEE TASK #2 FOR REPAIR OF STATIC SYSTEM LEAK.

**** ITEM # 21602-2 REPAIR STATIC SYSTEM LEAK ****

DISCREPANCY: STATIC SYSTEM HAS A 1,300 FT/MIN LEAK WHICH EXCEEDS ALLOWABLE TOLERANCE.

ACTION: ISOLATED SOURCE OF LEAK TO THE ALTERNATE STATIC VALVE. DISASSEMBLED, CLEANED, LUBRICATED 'O' RINGS AND REASSEMBLED ALTERNATE STATIC VALVE. FINAL LEAK CHECK ANALYSIS IS WITHIN ALLOWABLE TOLERANCE WITH A 14 FT/MIN LEAK @ 1,000 FT AGL.


KYLE REED

Repair

YEAR:

REC
TAC
TIM

DATE

Henry Weber Aircraft Distributors, Inc.
Maintenance Release



an or Repair

N231L

S/N: 25-0055

Hobbs: 1292.3 TT: 2993.0

Airframe Logbook

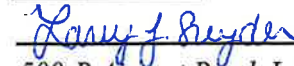
Completed Annual Inspection this date. C/W AD 85-24-03(B) Fuel Caps Inspection IAW SB M20-229A—next due 5/2018. C/W FAR 91.207(d), inspection of ELT (S/N: 7440) okay. Replaced ELT battery—next due 8/2019. C/W I.C.A. inspections on installed avionics. Fire extinguisher inspection okay. Replaced cabin door stay, both fuel cap assemblies with new O-rings, and left landing light with Whelen LED bulb. Replaced right wing tip assy nav and strobe lights with Whelen Orion LED nav/strobe light assy. Rewired as needed and removed old strobe power assy—weight change is negligible. Inspected stabilizer trim system IAW SB M20-325—no wear or jamming noted. Serviced battery, brake fluid level, and wheel bearings. Cleaned main fuel screen, greased gear, and lubed controls. —END—

I certify that this aircraft has been inspected in accordance with an Annual Inspection and was determined to be in airworthy condition. Pertinent details of the repair are on file at this repair station under

Order No: 16379

Certified Repair Station No: DY1R103K

Inspector:



Larry J. Snyder

Date: May 26, 2017

500-B Airport Road, Lancaster Airport, Lititz, PA 17543

YEAR: _____
RECO
TACH
TIME

DATE _____

N231L

3/23/18



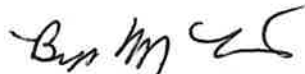
Tach: 1369.5

FAA CRS ZV8R725X
186 Airport Road
Marietta, PA 17547

WO RS18-53

ian or Repair

Removed Autopilot Computer for repair. Reinstalled autopilot computer
P/N1D757-1001004 S/N 428E. System ground tested good in accordance with
Century 41 Autopilot maintenance manual.


Benjamin Travis
Repairman 2774970

YEAR: _____

DATE _____

MAKE: Mooney Aircraft Corp
MODEL: M20K
S/N: 25-0055
REG. NO: N231L
WORK ORDER: 18045



1 of 3

Lancaster Aero, LLC.
311 Airport Drive
Box 7
Smoketown, PA 17576
Phone: 717-394-5805

DATE: 6/1/2018
A/C TSN: 3072.7
HOBBS: 1372

repair

Airframe Entries

- Aircraft flight controls removed and airframe chemically stripped airframe metal surfaces with neutral peroxide based stripper. Alkaline Soap and Acid Etch aluminum surfaces. Painted aircraft using materials listed below. Balanced flight controls IAW MM. All Controls check ok. C/W Lancaster Aero post paint checklist and found to be satisfactory for return to service. Details on file.
- - Axalta 13238S Pretreatment
- - Axalta 13580S Epoxy Primer
- - Axalta 13550S Epoxy Primer
- - Axalta Snow White
- - Axalta Trim color#1 Deep Red 764839
- - Axalta Trim Color #2 Antique Gold P1165
- - Axalta Trim Color #3 Flag Blue 764839
- - Axalta AF740 Clear Coat
- Performed annual inspection in accordance with FAR43, appendix D.
- Replaced vacuum regulator filter.
- Complied with FAR 91.207(d) ELT inspection, no discrepancies noted.
- Lubed alternate air control and adjusted tension on hinge bolt. Ops check satisfactory.
- Replaced both sump drain valves P/N F391-53S. Leak check satisfactory.

Continued →

YEAR:

DATE

- Resealed right fuel tank along inboard top seam and around sump drain as needed. Resealed left fuel tank at multiple rivets and around sump drain as needed. Leak check satisfactory.
- Replaced right flap male rod end. Ops check satisfactory.
- Replaced right tire and tube with new Condor 6.00X6 tire and Aero-Classic tube.
- Replaced one nose wheel bearing and race and one right main bearing and race.
- Cleaned and packed all wheel bearings.
- Replaced left and right brake discs P/N RA164-02000. Replaced all brake linings P/N 066-10500.
- Bled left brakes as needed. Ops and leak check satisfactory.
- Jacked aircraft. Retracted gear through 5 fault free cycles. Checked emergency extension and anti retraction, no discrepancies noted. Lubed gear and serviced hydraulic reservoir.
- Complied with annual and biennial inspection items on Precise Flight standby vacuum system. No discrepancies noted.
- Installed fuel boost pump S/N 02294 after overhaul by C.J. Aviation. Ops check satisfactory.
- Replaced right landing light with new Whelen LED P/N 01-0771833-10.
- Complied with A.D. 76-07-12 ignition switch inspection, no discrepancies noted. Next due at tach time 1472.0
- Complied with A.D. 85-24-03, fuel cap inspection. No discrepancies noted. next due 6/2019 or tach time 1472.0.

Repair

I certify that this aircraft has been inspected in accordance with an Annual Inspection and has been determined to be in Airworthy condition

DATE: 6/1/2018

SIGNED:

Dallas Glick, IA. 3571893

Work Order: 18045

Printed by EBis 3 (datcomedia.com)

YEAR:

DATE

RECORDING
TACH
TIME

Reading Air Service

Date: 9/28/18 N231L A/C: Mooney M20K S/N: 25-0055 Hobbs:1424.5

1. Installed new Gill G-35 battery S/N G02977901.
2. Ops Check good.
3. Aircraft approved for return to service for work performed.

Signed:  AP3679868
Ryan L. Eberhart

Technician or Repair

Maintenance Release

N231L

S/N: 25-0055

Airframe Logbook



Hobbs: 1433.3

Removed paint from static and pitot system drain valves. Ops checks okay. Replaced seals in alternate static source valve. Serviced brake reservoir and bled left brake. Repaired wiring for floor mounted gear down indicator light. Secured pitot heat switch cover—system ops checks okay. Correctly installed and tightened pilot's sidewall fresh air vent. —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: 16617

Certified Repair Station No: DY1R103K

Inspector:

Jeffrey L. Martin

Date: October 23, 2018

500-B Airport Road, Lancaster Airport, Lititz, PA 17543

Initiation or Repair

LANCASTER AVIONICS, INC. 500-U AIRPORT ROAD LITITZ, PA 17543 CRS# LN7R261N
LOG ID# 5588 01-November-2018 WO# 23612/2 HOBBS 1435.2
N231L S/N 25-0055 MOONEY M20K

Pg 1 / 1

**** ITEM # 23612-2 REPAIR STATIC SYSTEM LEAK ****
DISCREPANCY: STATIC SYSTEM HAS A GREATER THAN +3,000 FT/MIN LEAK WHICH EXCEEDS ALLOWABLE TOLERANCE.
ACTION: ISOLATED LEAK TO THE STATIC SYSTEM DRAIN. CYCLED STATIC DRAIN NUMEROUS TIMES TO CLEAR FAULT.
STATIC SYSTEM FINAL LEAK CHECK ANALYSIS PASSES WITHIN ALLOWABLE TOLERANCE WITH A 98 FT/MIN LEAK @
1,000 FT AGL PRESSURE ALTITUDE.

KYLE REED

LANCASTER AVIONICS, INC. 500-U AIRPORT ROAD LITITZ, PA 17543 CRS# LN7R261N
LOG ID# 5615 15-November-2018 WO# 23653/1 HOBBS 1438.4
N231L S/N 25-0055 MOONEY M20K

Pg 1 / 1

***** ITEM # 23653-1 REPAIR STATIC SYSTEM *****
DISCREPANCY: VSI, AIRSPEED & ALTIMETER ARE 'JUMPY' IN FLIGHT. SUSPECT WATER IN STATIC SYSTEM.
ACTION: CHECKED AND CONFIRMED STATIC SYSTEM HAS SUBSTANTIAL AMOUNT OF WATER IN STATIC LINES. ALSO
VERIFIED THE ALTIMETER AND VSI HAVE BEEN DAMAGED INTERNALLY BY WATER. DETERMINED PILOT SIDE STATIC
SYSTEM IS PLUMBED IN SUCH A WAY AS TO NOT ALLOW PROPER WATER DRAINAGE FROM THE STATIC LINES. CLEARED
WATER FROM STATIC LINES AND REPLUMBED PILOT SIDE STATIC SYSTEM. REPAIRED INTERNAL SPRING IN STATIC
DRAIN FOR PROPER OPERATION. REMOVED FAULTY VSI, P/N 7000C.31, S/N G5937. INSTALLED USED SERVICEABLE
REPLACEMENT VSI, P/N 7000C.83H, S/N 298339. REMOVED FAULTY ALTIMETER, P/N 5934D-3A.129, S/N 410101.
INSTALLED OVERHAULED EXCHANGE ALTIMETER, P/N 5934D-3A.129, S/N 497669. CORRELATED EXCHANGE ALTIMETER
TO THE A-30 ALTITUDE ENCODER, S/N 133975 UP TO 20,000 FT. PERFORMED REQUIRED STATIC SYSTEM LEAK
CHECK. STATIC SYSTEM PASSES WITHIN ALLOWABLE TOLERANCE WITH AN 8 FT/MIN LEAK @ 1,000 FT AGL PRESSURE
ALTITUDE.

Wm. L. Bush

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.)



Reading Air Service
119c Air Museum Drive
Reading, PA 19605
610-288-2496
Reading Regional Airport

Date: 5/3/19 N231L A/C: Mooney M20K AC S/N: 25-0055. Hobbs: 1464.6

1. Removed TCM TSIO-360-LB(1B) S/N: 1032230 from N231L.
2. Sent engine to Columbia Aircraft Services Inc. for IRAN inspection. Details under their W.O.# 027492.
3. Installed engine on to aircraft IAW Mooney M20K MM, Chap. 71-00-30.
4. Installed all accessories/baffling/hoses/etc.
5. Installed propeller.
6. Serviced engine with 8qts Aeroshell 100 Mineral Oil.
7. C/W engine run-ups. Adjusted fuel injection system IAW Mooney M20K MM, Chap. 71-00-40, 71-00-50 and TCM SID97-3G. All checks good.
8. This aircraft is approved for return to service for the work performed.

SIGNATURE

Ryan L. Eberhart

A&P3679868

Ryan L. Eberhart

KYLE REED

YEAR:	RECORDING	TODAY'S	TOTAL	Description of Inspections, Tests, Repairs and Alterations	Technician or Repair
DATE				Henry Weber Aircraft Distributors, Inc. Maintenance Release	



N231L

S/N: 25-0055

Hobbs: 1491.6 TT: 3192.3

Airframe Logbook

Completed Annual Inspection this date. Complied with AD 85-24-03(B) "Fuel Caps Inspection" IAW Mooney SB M20-229A—next due 8/2020. Inspected ELT per FAR 91.207(d). Replaced ELT battery—next due 8/2021. Complied with ICA inspections on installed avionics. Resealed left brake master cylinder and bled brake system—ops and leak checks okay. Replaced left main tire and inner tube. Removed gear motor, and replaced manual extension drum and cable assembly. Reinstalled gear motor—ops checks okay. Installed new nose gear steering truss, shock tower, spacer, and collar, reusing serviceable shock discs. Checked nose gear tracking. Serviced brake reservoir, battery, and wheel bearings. Greased gear, lubed flight controls, and cleaned gascolator screen. —END—

I certify that this aircraft has been inspected in accordance with an Annual Inspection and was determined to be in airworthy condition. Pertinent details of the repair are on file at this repair station under

Order No: 16731

Certified Repair Station No: DY1R103K

Inspector:

Jeffrey L. Martin

Jeffrey L. Martin

Date: August 7, 2019

500-B Airport Road, Lancaster Airport, Lititz, PA 17543

YEAR:

DATE

Henry Weber Aircraft Distributors, Inc.

Maintenance Release

N231L

S/N: 25-0055



Airframe Logbook

Hobbs: 1577.3 TT: 3278.0

Completed Annual Inspection this date. C/W AD 85-24-03(B) Fuel Caps Inspection IAW SB M20-229A. Next due 9/2021. C/W FAR 91.207(d), inspection of ELT (S/N: 7440) okay—ELT battery due 8/2021. Replaced all fuel cap O-rings, nose tire and inner tube, and nose wheel bearings and cups. Fire extinguisher and GTN 650 I.C.A. checks okay. Cleaned and re-greased manual trim chain. Serviced battery, cleaned leads, and refilled brake fluid can. Serviced wheel bearings, cleaned fuel gascolator screen, greased gear, and lubed controls. —END—

I certify that this aircraft has been inspected in accordance with an Annual Inspection and was determined to be in airworthy condition. Pertinent details of the repair are on file at this repair station under

Order No: 16895

Certified Repair Station No: DY1R103K

Inspector:

Larry J. Snyder

Date: September 14, 2020

500-B Airport Road, Lancaster Airport, Lititz, PA 17543

ician or Repair

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DAT

LANCASTER AVIONICS, INC. 500-U AIRPORT ROAD LITITZ, PA 17543 CRS# LN7R261N
LOG1D# 6519 06-November-2020 WO# 25445/2 HOBBS 1590.0
N231L S/N 25-0055 MOONEY M20K

Pg 1 / 1

**** ITEM # 25445-2 REPAIR STATIC SYSTEM LEAK ****

DISCREPANCY: STATIC SYSTEM HAS A GREATER THAN 200 FT/MIN LEAK WHICH EXCEEDS ALLOWABLE TOLERANCE.
ACTION: REPAIRED BROKEN PLASTIC SLEEVE ON ALTERNATE STATIC SWITCH. REPLACED PLASTIC STATIC LINE TUBING W/ BRASS FITTING AND INSTALLED 'T' FITTING TO THE ALTERNATE STATIC SWITCH. CLEANED STATIC DRAIN IN TAIL SECTION OF AIRCRAFT. FINAL LEAK CHECK ANALYSIS PASSES WITHIN ALLOWABLE TOLERANCE WITH A 21 FT/MIN LEAK @ 1,000 FT AGL PRESSURE ALTITUDE.

MARK J. FORTH

LANCASTER AVIONICS INC. CRS # LN7R261N

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

UNIT	TYPE	TESTED TO
#1 ALTIMETER	United	20,000 FT
#2 ALTIMETER	HCT	20,000 FT
ENCODER(S)	HCT	20,000 FT
STATIC SYSTEM TEST DATE	11-06-20	
SIGN	DATE 11-06-20	

N 231L

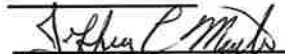
LANCASTER AVIONICS INC

CRS # LN7R261N

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

UNIT	TYPE
#1 TRANSP	KT 76-A
#2 TRANSP	HCT
SIGN	DATE 11-06-20

YEAR:	MAKE: Mooney Aircraft Corp	LANCASTER AERO	Lancaster Aero, LLC.	DATE: 3/26/2021	Repair
	MODEL: M20k		311 Airport Drive	A/C TSN:	
DATE	S/N: 25-0055		Box 7	HOBBS: 1606.7	
	REG. NO: N231L		Smoketown, PA 17576		
	WORK ORDER: 21050		Phone: 717-394-5805		
Airframe Entries					
· Repaired cracking fiberglass on top and bottom cowlings as needed. Refinished to match original scheme. Resized camlocks as needed.					
DATE: 3/26/2021		SIGNED: 		Work Order: 21050	
		Kendall Horst, A&P: 3292382		Printed by EBis 3 (datcomedia.com)	

YEAR:	Henry Weber Aircraft Distributors, Inc.			Initian or Repair
DATE	Maintenance Release			
	N231L			
	S/N: 25-0055	Hobbs: 1640.8	TT: 3341.5	
	Airframe Logbook			
	Completed Annual Inspection this date. Complied with AD 85-24-03(B) "Fuel Caps Inspection" IAW Mooney SB M20-229A—next due 10/2022. Inspected ELT per FAR 91.207(d). Replaced ELT battery—next due 12/2023. Complied with ICA's for Garmin GTN 650 and fire extinguisher—no defects noted. Repaired wiring for floor mounted gear down light. Relamped belly mounted anti-collision light. Replaced vacuum system gyro and regulator filters. Bled brake system and serviced brake reservoir. Serviced battery, cleaned fuel gascolator screen, greased landing gear, lubed flight controls, and serviced wheel bearings. —END—			
	I certify that this aircraft has been inspected in accordance with an Annual Inspection and was determined to be in airworthy condition. Pertinent details of the repair are on file at this repair station under			
	Order No: 17044	Certified Repair Station No: DY1R103K		
	Inspector: 	Jeffrey L. Martin	Date: October 21, 2021	
	500-B Airport Road, Lancaster Airport, Lititz, PA 17543			



Venice Municipal Airport (VNC)
120 West Airport Ave
Venice, FL 34285

HOBBS	1700.1
TTAF	3403.1
TTE	563.9
SMOH	563.9
TTP	563.9
SPOH	563.9

N231L Date 11-9-22

Researched log books to calculate total times. Hobbs replaced 12-7-79 at 98.9 hrs. New Hobbs installed with 0.3. Replaced again 12-18-79 at 2.3 with 0.0 so total time was 100.9. Replaced again 2-10-92 at 1602.1 with 0.0 meter, so total time was 1703.0. Current TTAF is Hobbs plus 1703.0. TTAF compared to log entries for engine and prop installations on those dates and those times updated.

Replaced elevator control aft travel stop with new 913041-501. Set elevator travel in accordance with SM chapter 27-30-00. Checked rudder and aileron travel limits and rigging. Disconnected static system lines from alt static valve, auto-pilot computer and TEE under radio racks in tail. Blew air thru system to remove entrapped water. Reconnected system. Replaced instrument air filter with new RAD9-18-1, replaced vacuum regulator filter with new RAB3-5-1. Replaced engine inlet air filter with new Donaldson AM108365FP. Replace again TTAF 3903.1 in accordance with AD 84-26-02. Removed battery, cleaned battery box. Painted with acid-proof paint. Serviced battery with distilled water and reinstalled.

CONTINUED.....

.....FROM PREVIOUS 11-9-22

Removed RH brake master cylinder from belly. Disassembled, cleaned and inspected all parts. Reassembled with new o-rings. Reinstalled and reverse bled hydraulics, serviced reservoir. Replaced hardware aileron push/pull tube to aileron with new bolts, castellated nuts and cotter pins. Checked landing gear over-center preloads. Adjusted LH and RH MLG to 250 lbs using shim-stock method in accordance with SM chapter 32-30-02. Nose gear previously set to .030" compression. Checked gear operation electric and emergency.

Checked and cleaned fuel gascolator. Removed heat shrouds and pressure checked entire exhaust system. Lubed flight controls and landing gear. Replaced fuel cap o-rings. Serviced tires with air.

AD 76-07-12 N/A to TCM switch with white dot

AD 85-24-03 is not recurring.

AD 99-24-10 N/A to SVS valve s/n 17213 according to AMOC. It's now considered an SVS V system.

Flight manual supplement and AMOC placed in aircraft and owner advised.

Inspected and tested ELT in accordance with FAR 91.207(d). Battery due Dec. 2023.

Checked AD's to current bi-weekly, all applicable are in compliance at this time, see AD listing. I certify this aircraft has been inspected in accordance with an annual inspection and is airworthy at this time.

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YEAR:
DATE

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Sarasota Avionics Inc. Venice Airport (VNC)
120 West Airport Ave Venice FL 34285
Tail No.: N231L Mooney M20K SN: 25-0055
Date : 12/8/2022 Work Order: 13638



Repair

Pilot Altimeter (PN: 5934B-3A / SN: 497669) has been tested to an altitude of 20,000 feet and was found to comply with App E of 14 CFR 43. The Automatic pressure altitude reporting equipment A-30 (SN: 133975) was tested and found to comply with App E of 14 CFR 43, and calibration is in compliance with 14 CFR 91.217. The transponder KT76A (SN: 116144) was tested, inspected and found to comply with App F of 14 CFR 43 and 14 CFR 91.413. The Static Pressure system was tested and inspected in accordance with 14 CFR 91.411. I certify all work done to the aircraft and/or component identified above was done in accordance with current regulations of the Federal Aviation Administration and was found approved for return to service with respect to the work performed.

for Sarasota Avionics Inc. CRS S0QR632X

YEA
DAT

Sarasota Avionics Inc. Venice Airport (VNC)
120 West Airport Ave Venice FL 34285
N231L
Date: 6/16/23 Work Order: 13947



Repair

Removed KT76A SNN: 116144 for bench testing. Unit tested good - found coax broke and repaired. Reinstalled unit into aircraft. The transponder was tested, inspected and found to comply with App F of 14 CFR 43 and 14 CFR 91.413. The Automatic pressure altitude reporting equipment was tested and found to comply with App E of 14 CFR 43, and calibration is in compliance with 14 CFR 91.217. Update GTN to 6.72 software Updated GDL88 to 3.43 software. I certify all work done to the aircraft and/or component identified above was done in accordance with current regulations of the Federal Aviation Administration and was found approved for return to service with respect to the work performed.

for Sarasota Avionics Inc. CRS S0QR632X

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.)						
				<table border="1" data-bbox="897 291 1724 412"> <tr> <td>N231L</td> <td>Hobbs: 1724.6</td> <td>DATE: 5-19-2023</td> </tr> <tr> <td>Mooney M20K</td> <td>s/n: 25-0055</td> <td></td> </tr> </table> - Removed ship's battery. - Installed new Concorde battery p/n: RG-35AXC s/n: 41303081. - Aircraft returned to service with respect to the work performed. <i>Francisco L. Migenis</i> Francisco L. Migenis A&P 3639889	N231L	Hobbs: 1724.6	DATE: 5-19-2023	Mooney M20K	s/n: 25-0055	
N231L	Hobbs: 1724.6	DATE: 5-19-2023								
Mooney M20K	s/n: 25-0055									

YEAR	DATE	wo: N231L 12-12-23	Airframe · page 1 of 2	or Repair												
		Sarasota Avionics · 140 Airport Ave E · Venice, FL 34285 · 941-800-2135														
		<table border="0"> <tr> <td>N231L</td> <td>MOONEY AIRCRAFT CORP., M20K, S/N: 25-0055</td> <td>January 09, 2024</td> </tr> <tr> <td>HOBBS: 1733.9</td> <td>SMOH: 597.7</td> <td>TTAF: 3436.9</td> </tr> <tr> <td>TTE: 597.7</td> <td>SPOH: 597.7</td> <td></td> </tr> <tr> <td></td> <td>TTP: 597.7</td> <td></td> </tr> </table> - Test ran engine for operational check of all systems and controls. Jacked aircraft. Opened for inspection. - Removed RH and LH heater shrouds and pressure checked entire exhaust system. - Serviced gascolator. - Replaced RH and LH fuel cap o-rings - Serviced hydraulic fluid reservoir with 5606 - Replaced vacuum regulator filter with new RAB3-5-1. - Replaced instrument air filter with new RAD9-18-1. - Removed ELT. Test and inspected in accordance with FAR 91.207(d). Replaced battery with new BP-1020. Tested ELT again. Battery due for replacement FEB 2026. Installed in aircraft and tested remote switch operation. - Replaced SCAT 12 hose from RH heat shroud to firewall. - Removed fuel tank vent tube from inside LH wing. Reverse flushed with air to dislodge large bug nest. Cleaned tube and reinstalled in wing. Checked tank for proper venting. <i>Continued...</i>			N231L	MOONEY AIRCRAFT CORP., M20K, S/N: 25-0055	January 09, 2024	HOBBS: 1733.9	SMOH: 597.7	TTAF: 3436.9	TTE: 597.7	SPOH: 597.7			TTP: 597.7	
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	TTP: 597.7															



Venice Municipal Airport (VNC)
120 West Airport Ave
Venice, FL 34285

HOBBS	1769.1
TTAF	3472.1
TTE	632.9
SMOH	632.9
TTP	632.9
SPOH	632.9

N231L Date 5-1-25

Test ran engine for operational check of all systems and controls. Jacked aircraft, opened for inspection. R&R propeller for overhaul, see prop log. Checked and cleaned fuel gascolator. Sumped all fuel system low points. Replaced vacuum regulator and instrument air filters. Inspected engine air filter. Removed heater shrouds and pressure checked entire exhaust system. Serviced hydraulic reservoir. Removed RH, LH, and nose wheels. Disassembled, cleaned and inspected all parts. Removed bearing races from all six wheel halves. Bead blasted wheel halves and inspected. Acid-etched, cleaned then applied alodine treatment. Painted all wheel halves with etching primer and gloss white paint. Heated wheel halves and cooled races, then reinstalled. Replaced wheel bearing and race in valve stem side of nose wheel half. Packed wheel bearings with grease. Reassembled with original tires and tubes. Reinstalled on axles, set bearing tensions and safetied. CONTINUED.....

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.)
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CONTINUED FROM PREVIOUS.....Repaired engine cowling top and bottom RH fwd corners with fiberglass as required. Cleaned and painted propeller spinner. Replaced LH flap with serviceable unit. Repaired RH wingtip by removing fiberglass tip and end rib. Straightened sheet metal skin and replaced rib with new. Reinstalled wingtip and lighting. Replaced RH lens with new. Replaced LH and RH wingtip NAV/strobe assy with new WAT combos 01-0790701. Removed rudder NAV light assy and cleaned connections, reinstalled with drain holes facing down. Checked AD's to current bi-weekly, all applicable are in compliance at this time, see AD listing. I certify this aircraft has been inspected in accordance with an annual inspection and is airworthy at this time.

IA2809540