

ALNO 201



*The Standard*

# AIRCRAFT LOG

**ASA-SA-1**

## PAINT COLOR INFORMATION

N N140RMSN 27-0287TOP COLOR GraystoneCOLOR NO. WP-405 MFG \_\_\_\_\_ACCENT COLOR WineCOLOR NO. HS-10268 MFG \_\_\_\_\_STRIPES TitaniumCOLOR NO. HT-10679 MFG \_\_\_\_\_BOTTOM WING Dark BlueCOLOR NO. HR-10596 MFG \_\_\_\_\_

**Aircraft Record** General Information

Manufacturer Mooney Aircraft Corp. Model M20M  
Serial 27-0287 Registration Number N140RM  
Date of Manufacture 2000

## Engine(s) currently installed:

Manufacturer Lycoming Model TIO-540-AF1B Serial L-10413-61A  
Manufacturer \_\_\_\_\_ Model \_\_\_\_\_ Serial \_\_\_\_\_

## Propeller(s) currently installed:

Manufacturer McCawley Model \_\_\_\_\_  
HUB Model B3D32C417 Serial 993540 Serial \_\_\_\_\_  
Blade Model 82NRD-7 Serial TJ 302 Serial TJ 313 Serial TJ 315  
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.

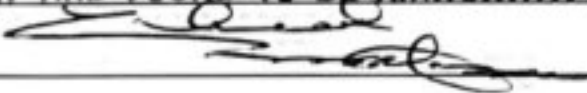
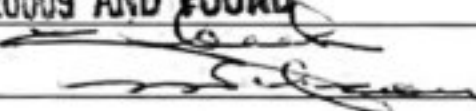
Dynamic balancing is not required but smoother operation will result when the engine & propeller are balanced as an integral unit.



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 Aircraft Corp.



YEAR: <i>2008</i> 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>FEB-18</i>			<i>4.7</i>	<b>PRODUCTION FLIGHT TEST COMPLETED THIS DATE. THIS AIRCRAFT INSPECTED NEW AT FACTORY AND FOUND TO BE AIRWORTHY.</b>  <i>112234</i>
<i>FEB-18</i>			<i>5.7</i>	<b>THIS AIRCRAFT HAS BEEN FLIGHT TESTED IN ACCORDANCE WITH MOONEY AIRCRAFT SPECIFICATION 020009 AND FOUND SATISFACTORY.</b> 
				<i>FEB FAA ACO ASW 150</i>

YEAR: 2000 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.)
FEB. 18			5.7	The GPS Navigation System, Make <del>GARMIN</del> Model <del>GNS-430</del> installed in this Aircraft has been Ground/Flight tested in accordance with Mooney Aircraft Specification 020009, and is approved for use under instrument Flight Rules, Enroute and Non-Precision approaches only.
				The GPS Navigation System, Make <del>GARMIN</del> Model <del>GNS-430</del> installed in this Aircraft has been Ground/Flight tested in accordance with Mooney Aircraft Specification 020009, and is approved for use under instrument Flight Rules, Enroute and Non-Precision approaches only.
				Signed  Mooney Aircraft Corporation
				Signed  Mooney Aircraft Corporation

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.)
				<b>I certify that the altimeter</b> tested to <u>35,000</u> feet on <u>11/23/99</u> and Static System tests required by FAR 91.411 have been performed. MOONEY AIRCRAFT CORP. TC2A3 PC11SW
				<b>I certify that A T C Transponder</b> Tests required by FAR 91.413 have been performed MOONEY AIRCRAFT CORP. TC2A3 PC11SW
				<b>I certify that the encoding altimeter</b> tests required by FAR 91.217(b) have been performed. MOONEY AIRCRAFT CORP. TC2A3 PC11SW
				"I find that the aircraft meets the requirements for the certification requested and have issued a (Standard) ( <del>Special</del> ) Airworthiness Certificate Dated <u>2/18/00</u> . The next Annual inspection is due <u>2/18/01</u> ."
				TOTAL TIME: 5.7 HOURS
				SIGNED <u>Paul G. Schmidt</u> 0112742012 SW

I certify that A T C Transponder  
Tests required by FAR 91.413  
have been performed  
MOONEY AIRCRAFT CORP. TC2A3  
PC11SW

By Paul G. Schmidt  
2/18/00

I certify that the encoding altimeter  
tests required by FAR 91.217(b) have  
been performed.  
MOONEY AIRCRAFT CORP. TC2A3  
PC11SW

By Paul G. Schmidt  
2/18/00

By Paul G. Schmidt  
2/18/00

"I find that the aircraft meets the  
requirements for the certification  
requested and have issued a (Standard)  
(~~Special~~) Airworthiness Certificate  
Dated 2/18/00. The next Annual  
inspection is due 2/18/01."

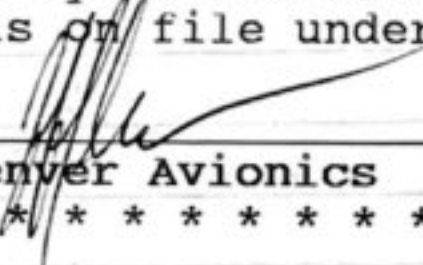
TOTAL  
TIME:  
5.7  
HOURS

SIGNED Paul G. Schmidt  
0112742012 SW



YEAR: DATE	RECORDING TACH TIME	TODAY'S FLIGHT	TOTAL TIME IN SERVICE	<b>Description of Inspections, Tests, Repairs and Alterations</b> <small>Entries must be endorsed with Name, Rating and Certificate Number of Technician or Repair</small>
				<p style="text-align: center;"><b>ARAPAHOE AERO</b></p> <p style="text-align: center;">12760 EAST CONTROL TOWER ROAD ENGLEWOOD, COLORADO 80112 (303) 799-8386</p> <p style="text-align: center;"><b>N140RM                      MOONEY                      M20M                      S/N: 27-0287                      Total Time: 134.7</b></p> <p><b>5 March 2001                      Tach: 134.7</b></p> <p><b>100 Hour / Annual inspection</b> completed this date using the Mooney M20M inspection form as a guide. Tested ELT per FAR 91.207 (d). <b>ELT battery expires January 2002.</b> Cleaned and resealed fuel strainer. Serviced and charged batteries. Lubed landing gear and flight control system. Serviced brake reservoir with hydraulic fluid. Jacked aircraft and performed 5 fault free retractions and extensions. Checked landing gear tensions, lights, and warning horn. Rigged landing gear IAW M20M service manual. Calibrated both digital fuel quantity gauges. Adjusted alternate air light micro switch. Cleaned, neutralized and painted battery box for #2 battery. Tightened lower aileron pivot hardware. Repositioned adel clamp next to gear actuator. Tightened left inner flap hardware. Secured wiring in outer wings as required. Tightened and saftied pilots yoke hardware. Removed Shadin mini-flow and sent for repair and reinstalled after repair. <b>C/W Mooney S/B M20-276</b> by inspecting overhead panel switches and installing wire loom around tubular structure. <b>Mooney S/B M20-275</b> previously complied with at factory. KFC 225 removed from aircraft and sent for modification per <b>Mooney S/B M20-277</b>. Cleaned windows and vacuumed interior. AD's checked through bi-weekly 2001-03. <b>I CERTIFY THAT THIS AIRCRAFT HAS BEEN INSPECTED IN ACCORDANCE WITH AN ANNUAL INSPECTION AND WAS DETERMINED TO BE IN AN AIRWORTHY CONDITION.</b></p> <p style="text-align: right;"><i>Michael Nigro</i> <b>Michael Nigro A&amp;P 470942287 IA                      w/o 17264</b></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 style="text-align: center;">* * * * *</p> <p style="text-align: center;"><b>Installation Bulletin 472 Alert</b></p> <p style="text-align: center;"><b>Effective Date 1/01.</b></p> <p>Complied this date In Accordance With Honeywell IB #472 Alert Rev 1 Jan/01. This KC-225 Autopilot computer was returned to the Honeywell factory for compliance to this bulletin. Affected unit: KC-225 PN <u>065-00183-0301</u> S/N <u>1514</u>. A/P was tested per Honeywell manual # <u>006-10557-0003</u> Static sytem was retested per FAR 43 apdx E. Details on file under J.O. # <u>29645</u>.</p> <p>Sign <u></u> Date <u>4-4-01</u>.</p> <p style="text-align: center;">Denver Avionics      FAA CRS      PE5R116N</p> <p style="text-align: center;">* * * * *</p>

YEA

DAT

**CROWNAIR**

Repair

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

Reg. #. N140RM

Model: M20M

S/N: 27-0287

Date: March 8, 2002

Hobbs: 236.8

Total Time: 236.8

Completed **Annual Inspection**. Performed ELT inspection in accordance with **FAR 91.207 (d)** and found to be in compliance, battery replaced due again **March 8, 2008**. Replaced fuel cap o-rings. Adjusted gear tensions to proper specifications. Replaced vacuum regulator filter,

I certify that this aircraft has been inspected in accordance with an **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-02-01443.

  
Authorized Representative

YEAR:	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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Air 88 Inc. dba CROWNAIR 3753 John J. Montgomery Drive San Diego, CA 92123 CWNR273K  
 LOG ID# 952 12-March-2002 REF# AR-02-1664 HOBBS 236.8  
 N140RM S/N 27-0287 MOONEY M20M

Pg 1 / 1

I certify that the altimeter and static system tests required by FAR 91.411 have been performed. The altimeter has been tested to 20,000 feet.

The ATC transponder tests and inspections required by FAR 91.413 were performed this date and found to comply with FAR 43 Appendix F.

Altimeter SN: 30115

Transponder KT76C SN: 9592

The items identified above were repaired and inspected in accordance with current FAA regulations and is approved for return to service. Pertinent details of the repair are on file at this Repair Station under Work Order #AR-02-01664.

*Russell Hays*  
 Signed CWNR273K RUSSELL HAYS

3-12-02  
 Date

**CROWNAIR**

**FAA Approved Repair Station #CWNR273K**

**3753 John J. Montgomery Dr.**

**San Diego, CA 92123**

Reg. #. N140RM

Model: M20M

S/N: 27-0287

Date: March 21, 2003

Hobbs: 312.8

Total Time: 312.8

Completed **Annual Inspection**. Performed ELT inspection in accordance with **FAR 91.207 (d)** and found to be in compliance, battery replaced due again **March 8, 2008**. Replaced fuel cap o-rings. Adjusted gear tensions to proper specifications. Replaced vacuum regulator filter. CW Parker SL 54 on stand-by vacuum pump, good at this time. CW Mooney SB M20-279 on gear actuator. CW Mooney SB M20-280 gear rod-ends replaced and drilled. Oxygen bottle removed for hydro-static test and reinstalled. Replaced left main tire. Greased all wheel bearings.

I certify that this aircraft has been inspected in accordance with an **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-03-01818.



Authorized Representative

Repair

YEAR:

DATE

**CROWNAIR**

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

Reg. #. N140RM

Model: M20M

S/N: 27-0287

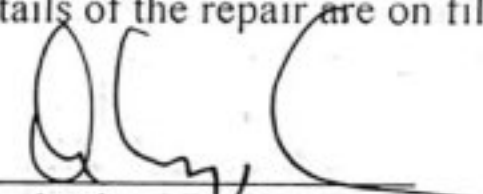
Date: February 17, 2004

Hobbs: 381.3

Total Time: 381.3

Completed **Annual Inspection**. Performed ELT inspection in accordance with **FAR 91.207 (d)** and found to be in compliance, battery replaced due again **March 8, 2008**. Replaced fuel cap o-rings. Replaced vacuum regulator filter. Replaced right main tire. CW Mooney SB M20-282, no back clutch spring replaced. Serviced both batteries.

I certify that this aircraft has been inspected in accordance with an **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-04-02123.

  
Authorized Representative



YEAR: RECORDING TACH TODAY'S FLIGHT TOTAL TIME IN Description of Inspections, Tests, Repairs and Alterations

CROWNAIR

or Repair

DA'

FAA Approved Repair Station #CWNR273K

3753 John J. Montgomery Dr.

San Diego, CA 92123

Reg.#N140RM

Model: M20M


S/N: 1067

Date: December 10, 2004

Hobbs: 428.8

Inspected both aircraft batteries. CW AD 2004-23-17 by installing Mooney kit M20-283-1  
Inspect main fuel strainer screen. Replaced fuel cap o-rings. Replaced and resealed right top  
inboard fuel panel screw.

The aircraft identified above was repaired and inspected in accordance with current Federal  
Aviation Regulations and was approved for return to service. Pertinent details of the repair are on  
file at this repair station under Work Order # LT-04-02397.

  
Authorized Representative

YEAR:

DATE

CROWNAIR

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

air

Reg. #. N140RM

Model: M20M

S/N: 27-0287

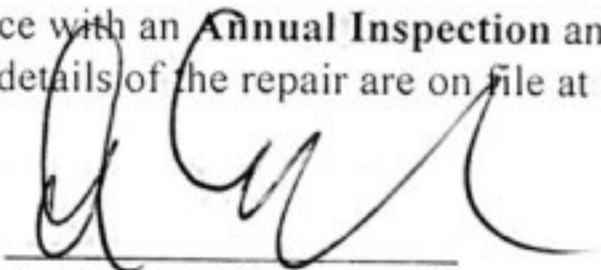
Date: April 3, 2005

Hobbs: 433.3

Total Time: 433.3

Completed **Annual Inspection**. Performed ELT inspection in accordance with **FAR 91.207 (d)** and found to be in compliance, battery replaced due again **March 8, 2006**. Resealed access cover screw under wing walk and replaced wing walk material. Repositioned cable guard on roll servo to clear cable.

I certify that this aircraft has been inspected in accordance with an **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-05-02508.



Authorized Representative

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.)

Air 88 Inc. dba CROWNAIR 3753 John J. Montgomery Drive San Diego, CA 92123 CWNR273K  
 LOG ID# 1461 04-April-2005 REF# AR-05-3047 HOBBS 433.4  
 N140RM S/N 27-0287 MOONEY M20M

Pg 1 / 1

I certify that the altimeter and static system tests required by FAR 91.411 have been performed. The altimeter has been tested to 20,000 feet.

Altimeter SN: 30115

The ATC transponder tests and inspections required by FAR 91.413 were performed this date and found to comply with FAR 43 Appendix F.

Transponder KT-76C SN: 9592

The items identified above were repaired and inspected in accordance with current FAA regulations and is approved for return to service. Pertinent details of the repair are on file at this Repair Station under work Order #AR-05-03047.

  
 Signed CWNR273K DALE BARKWILL

4/4/05  
 Date



YEA

CROWNAIR

or Repair

FAA Approved Repair Station #CWNR273K

3753 John J. Montgomery Dr.

San Diego, CA 92123

DATE

Reg. #. N140RM

Model: M20M

S/N: 27-0287


Date: April 19, 2006

Hobbs: 504.3

Total Time: 504.3

Completed **Annual Inspection**. Performed ELT inspection in accordance with **FAR 91.207 (d)** and found to be in compliance, battery replaced due again **April 2007**. Replaced fuel cap o-rings. Replaced all main landing gear shock discs. Removed oxygen bottle for hydrostatic test and reinstalled. Replaced bearing and race in nose gear wheel. Greased all wheel bearings. Serviced both batteries.

I certify that this aircraft has been inspected in accordance with an **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-06-02924.



Authorized Representative



YEAR:

CROWNAIR

lepair

FAA Approved Repair Station #CWNR273K

3753 John J. Montgomery Dr.

San Diego, CA 92123

DATE

Reg. #. N140RM

Model: M20M

S/N: 27-0287

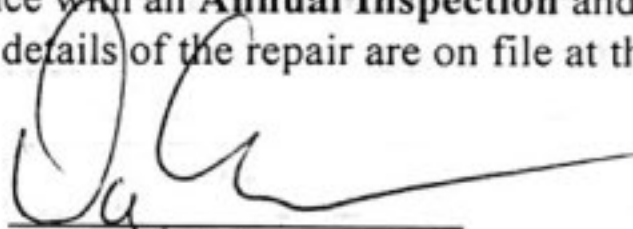
Date: April 27, 2007

Hobbs: 560.0

Total Time: 560.4

Completed **Annual Inspection**. Performed ELT inspection in accordance with **FAR 91.207 (d)** and found to be in compliance, battery replaced due again **April 2008**. Replaced fuel cap o-rings.

I certify that this aircraft has been inspected in accordance with an **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-07-03355.



Authorized Representative

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Air 88 Inc. dba CROWNAIR  
FAA Approved Repair Station #CWNR273K  
3753 John J. Montgomery Dr.  
San Diego, CA 92123

Repair

Reg. #: N140RM  
Date: 04/26/07

Model: Mooney M20M  
Hobbs Time: 560.2

SN: 27-0287  
WO#: AR-07-04333

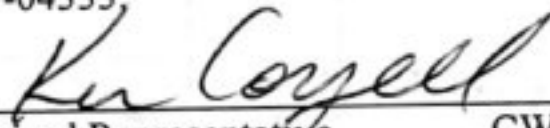
I certify that the altimeter and static system test required by FAR 91.411 have been performed. The altimeter have been tested to 25,000 feet.

The ATC transponder tests and inspections required by FAR 91.413 were performed this date and found to comply with FAR 43 Appendix F.

Altimeter SN: 30115

Transponder KT-76C SN: 9592

The aircraft identified above was repaired and inspected in accordance with current Federal Aviation Regulations and was approved for return to service. Pertinent details of the repair are on file at this Repair Station under work order AR-07-04333.

  
Authorized Representative

CWNR273K

Date

4/26/07

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

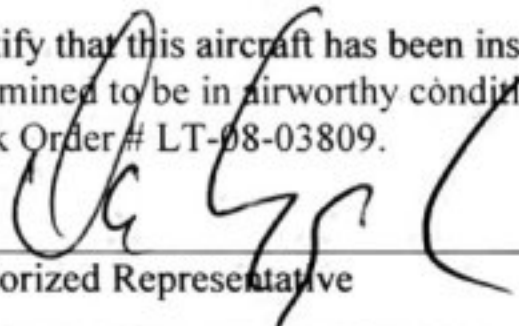
**Air 88 Inc. dba CROWNAIR**  
**FAA Approved Repair Station #CWNR273K**  
**3753 John J. Montgomery Dr.**  
**San Diego, CA 92123**

Reg. #: N140RM  
 Date: 04/30/08

Model: Mooney M20M      SN: 27-0287  
 Hobbs Time: 618.1

Complied with Airframe annual inspection. Complied with FAR 91.207(D) ELT test and inspection. Batteries due April 2010. Bled fluid from both brakes, serviced reservoir. Replaced outer fuel cap o-rings.

I certify that this aircraft has been inspected in accordance with an **Airframe 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-08-03809.



Authorized Representative

CWNR273K

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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**Air 88 Inc. dba CROWNAIR**  
**FAA Approved Repair Station #CWNR273K**  
**3753 John J. Montgomery Dr.**  
**San Diego, CA 92123**

Reg. #: N140RM  
Date: 04/30/08

Model: Mooney M20M  
Hobbs Time: 618.1

SN: 27-0287

Complied with Engine annual inspection. Compressions are as follows: #1 78/80, #2 74/80, #3 78/80, #4 75/80, #5 77/80 & #6 73/80. Complied with **AD 02-26-01** fuel injector lines inspection, inspects good.

I certify that this aircraft has been inspected in accordance with an **Engine 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-08-03809.

\_\_\_\_\_  
Authorized Representative

\_\_\_\_\_  
CWNR273K

YEAR:

R'

DATE

**CROWNAIR**

**FAA Approved Repair Station #CWNR273K**

**3753 John J. Montgomery Dr.**

**San Diego, CA 92123**

Repair

Reg. #. N140RM

Model: M20M

S/N: 27-0287

Date: March 27, 2009

Hobbs: 646.3

Total Time: 646.3

Completed **Annual Inspection**. Performed ELT inspection in accordance with **FAR 91.207 (d)** and found to be in compliance, battery replaced due again 2010. Replaced right nose wheel races and bearings. Replaced the #2 aircraft battery with new G-243.

I certify that this aircraft has been inspected in accordance with an **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-09-04104.

  
Authorized Representative



YEAR:	RECORDING TAG	TODAY'S FLIGHT	TOTAL TIME IN	Description of Inspections, Tests, Repairs and Alterations
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Air 88 Inc. dba CROWNAIR  
FAA Approved Repair Station #CWNR273K  
3753 John J. Montgomery Dr.  
San Diego, CA 92123

Reg. #: N140RM  
Date: 06/30/09

Model: Mooney M20M  
Hobbs Time: 657.1

SN: 27-0287

Replaced both main tires.

The aircraft identified above was repaired and inspected in accordance with current Federal Aviation Regulations and was approved for return to service. Pertinent details of the repair are on file at this Repair Station under work order LT-09-04282.

\_\_\_\_\_  
Authorized Representative

CWNR273K

AIR 88 Inc. dba CROWNAIR AVIATION  
FAA Approved Repair Station #CWNR273K  
3753 John J. Montgomery Dr.  
San Diego, CA 92123

N140RM  
4/07/2010

MOONEY M20M  
HOBBS: 705.8

S/N: 27-0287

I certify that the altimeter(s) and static system test required by FAR 91.411 have been performed and found to comply with FAR 43 Appendix E. The altimeter(s) have been tested to 25,000 feet.

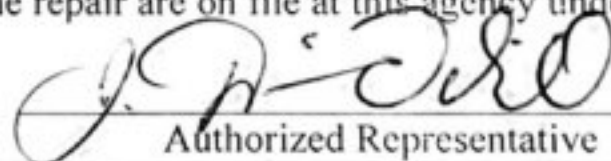
Pilot altimeter - King KEA130 S/N: 30115  
Encoder -King KEA130 S/N: 30115

I certify that the ATC transponder(s) test and inspection required by FAR 91.413 has been performed and found to comply with FAR 43 Appendix F.

Transponder- KT76C S/N: 9592

While performing static and pitot system test found excessive leaks by autopilot connections and pitot tube connection respectively. Repaired leaks and retested static and pitot system. Checked OK. All work done in accordance with current FARs.

The aircraft identified above was repaired and inspected in accordance with current Federal Aviation Regulations and was approved for return to service. Pertinent details of the repair are on file at this agency under Work Order No. LT-10-04651.

  
Authorized Representative

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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**Air 88 Inc. dba CROWNAIR**  
**FAA Approved Repair Station #CWNR273K**  
**3753 John J. Montgomery Dr.**  
**San Diego, CA 92123**

N140RM  
4/07/2010

MOONEY M20M  
HOBBS: 705.8

S/N: 27-0287

**Maintenance performed:**

- Completed **Annual Inspection** I/A/W Crownair 100 Hour/Annual Inspection Checklist, Form CA 105.
- Replaced worn nose tire with new P/N: 070-312-0
- Complied with FAR 91.207(d) test and inspection, batteries due 4/2012
- Replaced inline vacuum filters with new P/N: CV1J4



*CERTIFIED*

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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- Replaced inside/outside, right/left fuel cap O rings
- Serviced #1 and #2 aircraft batteries
- Replaced vacuum regulator filter with new P/N: B3-5-1

I certify that this **aircraft** has been inspected in accordance with an **Annual Inspection** and was determined to be in airworthy condition.

I certify that only the work requested by the owner/operator and listed above was repaired and inspected in accordance with current Federal Aviation Regulations and was found to be airworthy for return to service. Details of the repair are on file at this agency under Work Order #LT-10- 04651




Authorized Representative


Air 88 Inc. dba CROWNAIR  
FAA Approved Repair Station #CWNR273K  
3753 John J. Montgomery Dr.  
San Diego, CA 92123

N140RM  
7-7-2010

MOONEY M20M  
HOBBS: 721.4

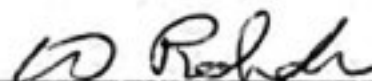
S/N: 27-0287

Maintenance performed:

- Replaced right inner door link with new P/N: 550082-501

I certify that this aircraft has been inspected in accordance with current FARs and was determined to be in airworthy condition.

I certify that only the work requested by the owner/operator and listed above was repaired and inspected in accordance with current Federal Aviation Regulations and was found to be airworthy for return to service. Details of the repair are on file at this agency under Work Order #LT-10- 04820



Authorized Representative

Air 88 Inc. dba CROWNAIR  
FAA Approved Repair Station #CWNR273K  
3753 John J. Montgomery Dr.  
San Diego, CA 92123

N140RM  
4-29-2011

MOONEY M20M  
HOBBS: 757.2

S/N: 27-0287

**Maintenance performed:**

- Completed **Annual Inspection I/A/W** Crownair 100 Hour/Annual Inspection Checklist, Form CA 105.
- Complied with FAR 91.207(d) test and inspection. Batteries due 4/2012
- Sent out O2 bottle for hydrostatic test, reinstalled bottle, regulator and installed new boss seal P/N: 59776-01, serviced O2 in full
- Installed section of rubber hose over #3 cylinder oil drain tube.
- Cleaned, inspected and repacked wheel bearings
- Stop drilled cracks to both flap inboard mount trim covers, installed large area washers
- Replaced left landing light bulb with new P/N: GE4596

CONTINUED →  
NEXT PAGE





Air 88 Inc. dba CROWNAIR  
FAA Approved Repair Station #CWNR273K  
3753 John J. Montgomery Dr.  
San Diego, CA 92123

N140RM  
5-01-12

Mooney M20M  
Hobbs: 814.1 Hrs

S/N: 27-0287  
ACTT: 814.1 Hrs

**Maintenance performed:**

- Completed **Annual Inspection** I/A/W Crownair 100 Hour/Annual Inspection Checklist, Form CA 105.
- Replaced ELT batteries with new Duracell MN1300 D cell batteries. New expiration date: March 2018.
- Complied with annual ELT inspection and functional test I/A/W FAR 91.207(d) and found satisfactory.
- Complied with **AD 2012-05-09 (Mooney SB M20-313A)** by inspection and found empennage trim fitting and attaching hardware are tight and installed correctly. No further action required.
- Installed new Gill G-243 battery, S/N G02717600 after servicing with acid and charging.
- Removed L/H & R/H landing light lenses, cleaned, polished and reinstalled.
- Serviced oxygen system to full as required.
- Replaced R/H landing light outboard lamp with new P/N GE4596. Ops check good.
- Replaced L/H and R/H recognition light assys with new P/N 01-0770303-01. Installed new pins to plugs and secured wiring. Ops check good.

Air 88 Inc. dba CROWNAIR  
FAA Approved Repair Station #CWNR273K  
3753 John J. Montgomery Dr.  
San Diego, CA 92123

N140RM  
5-01-12

Mooney M20M  
Hobbs: 814.1 Hrs

S/N: 27-0287  
ACTT: 814.1 Hrs

**Maintenance performed:**

- Repaired holes on L/H & R/H wing tip lenses with clear RTV to seal.
- Replaced vacuum regulator filter with new P/N B3-5-1.

I certify that this **aircraft** has been inspected in accordance with an **Annual Inspection** and was determined to be in airworthy condition.

I certify that only the work requested by the owner/operator and listed above was repaired and inspected in accordance with current Federal Aviation Regulations and was found to be airworthy for return to service. Details of the repair are on file at this agency under Work Order #PA-12-05744.

  
Authorized Representative

**Air 88, Inc. dba CROWNAIR**  
**FAA Approved Repair Station #CWNR273K**  
**3753 John J Montgomery Dr.**  
**San Diego, CA 92123**

N140RM  
5-01-12

Mooney M20M  
Hobbs: 814.1 Hrs

S/N: 27-0287  
ACTT: 814.1 Hrs

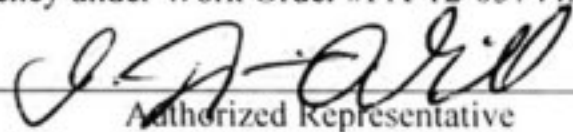
I certify that the altimeter(s) and static system test required by FAR 91.411 have been performed and found to comply with FAR 43 Appendix E. The altimeter(s) have been tested to 20,000 feet.

I certify that the ATC transponder(s) test and inspection required by FAR 91.413 has been performed and found to comply with FAR 43 Appendix F.

Pilot ADC:           S/N 30115

#1 Transponder:   S/N 9592

The aircraft identified above was repaired and inspected in accordance with current Federal Aviation Regulations and was approved for return to service. Pertinent details of the repair are on file at this agency under Work Order #PA-12-05744.

  
Authorized Representative

YEAR:	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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Page 1 of 2

**Air 88 Inc. dba CROWNAIR**  
**FAA Approved Repair Station #CWNR273K**  
**3753 John J. Montgomery Dr.**  
**San Diego, CA 92123**

N140RM  
6-03-13

Mooney M20M  
Hobbs: 867.2 Hrs

S/N: 27-0287  
ACTT: 867.2 Hrs

**Maintenance performed:**

- Completed **Annual Inspection** using Crownair Aviation Annual/100 Hour Inspection Checklist, Form CA 105.
- Complied with annual ELT inspection and functional test I/A/W FAR 91.207(d) and found satisfactory. Batteries expires March 2018.
- Replaced remote ELT switch battery with new P/N 2L76.
- Replaced fuel cap o-rings with new P/N MS29513-338 & P/N MS29513-010 on both left and right sides.
- Serviced oxygen system to 2000 PSI as required.
- Replaced fuel drain hose on right side with new P/N 193-4.

YEAR:

RECORDING  
TACH  
TIMETODAY'S  
FLIGHTTOTAL  
TIME IN  
SERVICE**Description of Inspections, Tests, Repairs and Alterations**

Entries must be endorsed with Name, Rating and Certificate Number of Technician or Repair

Page 2 of 2

Air 88 Inc. dba CROWNAIR  
FAA Approved Repair Station #CWNR273K  
3753 John J. Montgomery Dr.  
San Diego, CA 92123

N140RM  
6-03-13

Mooney M20M  
Hobbs: 867.2 Hrs

S/N: 27-0287  
ACTT: 867.2 Hrs

I certify that this **aircraft** has been inspected in accordance with an **Annual Inspection** and was determined to be in airworthy condition.

I certify that only the work requested by the owner/operator and listed above was repaired and inspected in accordance with current Federal Aviation Regulations and was found to be airworthy for return to service. Details of the repair are on file at this agency under Work Order No. PA-13-06161.

  
Authorized Representative

Page 1 of 2

**Air 88 Inc. dba CROWNAIR**  
**FAA Approved Repair Station #CWNR273K**  
**3753 John J. Montgomery Dr.**  
**San Diego, CA 92123**

N140RM  
6-09-14

Mooney M20M  
Hobbs: 906.1 Hrs

S/N: 27-0287  
ACTT: 906.1 Hrs

**Maintenance performed:**

- Completed **Annual Inspection** using Crownair Aviation Annual/100 Hour Inspection Checklist, Form CA 105.
- Complied with annual ELT inspection and functional test I/A/W FAR 91.207(d) and found satisfactory. Batteries expires March 2018.
- Complied with **FAR 91.411** Part 43 Appendix E and **FAR 91.413** Part 43 Appendix F. Certified the following components to 20,000 feet: Encoding Altimeter P/N 066-03064-0005, S/N 30115 and Transponder P/N 066-01156-0101, S/N 9592. No defects noted.
- Removed and replaced old oxygen bottle with overhauled **oxygen bottle**, DOT-SP8162-1850, P/N 1274473 (P/N 895-08015), S/N 282-24055, Mfg. Date: December 2010, Expires: December 2025. Next hydrostatic

Page 2 of 2

Air 88 Inc. dba CROWNAIR  
FAA Approved Repair Station #CWNR273K  
3753 John J. Montgomery Dr.  
San Diego, CA 92123

N140RM  
6-09-14

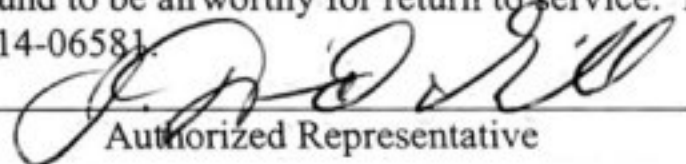
Mooney M20M  
Hobbs: 906.1 Hrs

S/N: 27-0287  
ACTT: 906.1 Hrs

- test due June 2019. Serviced oxygen bottle to 2000 PSI and leak checked good.
- Removed and replaced both main tires with new Goodyear Flight Custom III 160-MPH 6.00-6 tires P/N 301-002-001, L/H S/N 31897544 and R/H S/N 31927713 and serviced to 42 PSI.
  - Replaced broken static wick on R/H side of inboard horizontal stabilizer with new P/N 10-900-60/1.

I certify that this **aircraft** has been inspected in accordance with an **Annual Inspection** and was determined to be in airworthy condition.

I certify that only the work requested by the owner/operator and listed above was repaired and inspected in accordance with current Federal Aviation Regulations and was found to be airworthy for return to service. Details of the repair are on file at this agency under Work Order No. PA-14-06581.

  
Authorized Representative



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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Page 1 of 2

**Air 88 Inc. dba CROWNAIR**  
**FAA Approved Repair Station #CWNR273K**  
**3753 John J. Montgomery Dr.**  
**San Diego, CA 92123**

N140RM  
6-11-15

Mooney M20M  
Hobbs: 940.5 Hrs

S/N: 27-0287  
ACTT: 940.5 Hrs

**Maintenance performed:**

- Completed **Annual Inspection** using Crownair Aviation Annual/100 Hour Inspection Checklist, Form CA 105.
- Complied with annual ELT inspection and functional test I/A/W FAR 91.207(d) and found satisfactory. Batteries expires March 2018.
- Replaced o-rings on both L/H and R/H wing fuel caps with new.
- Serviced oxygen to 1850 PSI.
- Removed and replaced both MLG brake linings with new P/N 066-10500.
- Customer reports electric elevator trim inop, "Trim Fail" light comes on. Inspected trim servo and connections. After several attempts to operate electric trim, "Trim Fail" annunciation extinguished and all Ops checks were good.

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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Page 2 of 2

**Air 88 Inc. dba CROWNAIR**  
**FAA Approved Repair Station #CWNR273K**  
**3753 John J. Montgomery Dr.**  
**San Diego, CA 92123**

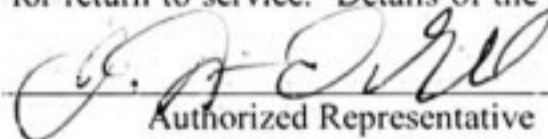
N140RM  
6-11-15

Mooney M20M  
Hobbs: 940.5 Hrs

S/N: 27-0287  
ACTT: 940.5 Hrs

I certify that this **aircraft** has been inspected in accordance with an **Annual Inspection** and was determined to be in airworthy condition.

I certify that only the work requested by the owner/operator and listed above was repaired and inspected in accordance with current Federal Aviation Regulations and was found to be airworthy for return to service. Details of the repair are on file at this agency under Work Order No. PA-15-07126.

  
 \_\_\_\_\_  
 Authorized Representative

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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**Air 88 Inc. dba CROWNAIR**  
**FAA Approved Repair Station #CWNR273K**  
**3753 John J. Montgomery Dr.**  
**San Diego, CA 92123**

N140RM  
7-27-15

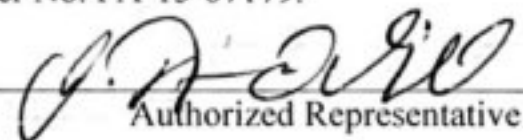
Mooney M20M  
Hobbs: 952.5 Hrs

S/N: 27-0287

**Maintenance performed:**

- Customer reports stall warning horn comes on when master switch is turned on. Removed and replaced stall warning switch with new P/N 800424-9015. Checks good at this time.

I certify that with respect to the work performed this **aircraft** was repaired and inspected in accordance with current FAA regulations. Only those items specified in the work order have been inspected and found to be airworthy and returned to service. Pertinent details of this repair are on file at this agency under Work Order No. PA-15-07179.

  
 \_\_\_\_\_  
 Authorized Representative

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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**Air 88 Inc. dba CROWNAIR**  
**FAA Approved Repair Station #CWNR273K**  
**3753 John J. Montgomery Dr.**  
**San Diego, CA 92123**

N140RM  
11-04-15


Mooney M20M  
Hobbs: 962.9 Hrs

S/N: 27-0287

**Maintenance performed:**

- Removed and replaced #2 battery with new Gill P/N G243, S/N G02867894, serviced, charged and installed.

I certify that with respect to the work performed this **aircraft** was repaired and inspected in accordance with current FAA regulations. Only those items specified in the work order have been inspected and found to be airworthy and returned to service. Pertinent details of this repair are on file at this agency under Work Order No. PA-15-07412.

  
 \_\_\_\_\_  
 Authorized Representative

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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Page 1 of 2

**Air 88 Inc. dba CROWNAIR**  
**FAA Approved Repair Station #C'WNR273K**  
**3753 John J. Montgomery Dr.**  
**San Diego, CA 92123**

N140RM  
6-06-16

Mooney M20M  
Hobbs: 974.9 Hrs

S/N: 27-0287  
ACTT: 974.9 Hrs

**Maintenance performed:**

- Completed **Annual Inspection** using Crownair Aviation Annual/100 Hour Inspection Checklist, Form CA 105.
- Complied with annual ELT inspection and functional test I/A/W FAR 91.207(d), all checks good at this time. Batteries due March 2018.
- Complied with **FAR 91.411** Part 43 Appendix E and **FAR 91.413** Part 43 Appendix F. Certified the following components to 25,000 feet: Pilot's Encoding Altimeter P/N 066-03064-0005, S/N 30115; and Transponder P/N 066-01156-0101, S/N 9592. No defects noted.
- Removed #1 battery P/N G-243, S/N G02717600 per customer's request. Serviced and charged new battery P/N G-243, S/N G02891545 and installed in #1 position. Secured terminals, installed lid and safety wired.
- Replaced inside and outside o-rings on left and right wing fuel caps with new P/N MS29513-338 & P/N MS29513-010.

YEAR: DATE	RECORDING TACH TIME	TODAY'S FLIGHT	TOTAL TIME IN SERVICE
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**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.)

Page 2 of 2

Air 88 Inc. dba CROWNAIR  
FAA Approved Repair Station #CWNR273K  
3753 John J. Montgomery Dr.  
San Diego, CA 92123

N140RM  
6-06-16

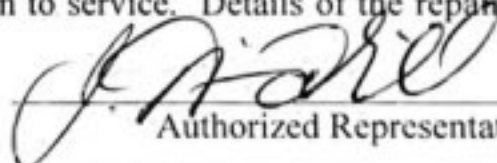
Mooney M20M  
Hobbs: 974.9 Hrs

S/N: 27-0287  
ACTT: 974.9 Hrs

- Bled left and right brakes and serviced reservoir as required.
- Removed and replaced inop tail strobe light P/N 01-0770058-13, Model A625-D with new tail strobe light P/N 01-0770058-03, Model A625. Strobe light illuminates.

I certify that this **aircraft** has been inspected in accordance with an **Annual Inspection** and was determined to be in airworthy condition.

I certify that only the work requested by the owner/operator and listed above was repaired and inspected in accordance with current Federal Aviation Regulations and was found to be airworthy for return to service. Details of the repair are on file at this agency under Work Order No. PA-16-07651.

  
Authorized Representative

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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*Avionics Instruments Electronics*      1-951-677-0085      CRS# DG3R448L  
 37610 Sky Canyon Drive Hanger 51  
 Murrieta CA 92563      www.aieinc.com      Since 1984

ALL WORK BELOW COMPLETED BY AIE, INC. DG3R448L BY Frank Engelmann DATED 24JUN2016

N140RM  
 SN: 27-0287  
 TAT: ?  
 TOTAL CYCLES: ?

Tested aircraft and located bad Pitch servo and replaced with Honeywell exchange unit KS270C 065-00178-2500 SN: 5174 see Honeywell 8130-3 tag. 318666604 and AIE, Inc. WO#44752 Dated 24JUN2016 .

\*\*\*\*\*NOTHING \*FOLLOWS\*\*\*\*\*



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

N140RM  
10-17-17

Mooney M20M  
Hobbs: 1033.7 Hrs

S/N: 27-0287  
ACTT: 1033.7 Hrs

**Maintenance performed:**

- Completed **Annual Inspection** using Crownair Aviation Annual/100 Hour Inspection Checklist, Form CA 105. Researched ADs through bi-weekly issue of this date, all ADs are in compliance at this time.
- Complied with annual ELT inspection and functional test I/A/W FAR 91.207(d) and found satisfactory. Batteries expires October 2019.
- Replaced o-rings on both L/H and R/H wing fuel caps with new P/N MS29513-338 and MS29513-010.
- Serviced oxygen to 2000 PSI.
- Removed and replaced both Left and Right burned out landing light with new P/N GE 4596. Adjusted landing lights and ops check good.
- Removed and replaced instrument air filter with new P/N AAD9-18-1.
- Removed and replaced vacuum regulator filter with new P/N ARB3-5-1.
- Removed and replaced vacuum in-line filter with new P/N AA2J4-6.

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

N140RM  
10-17-17

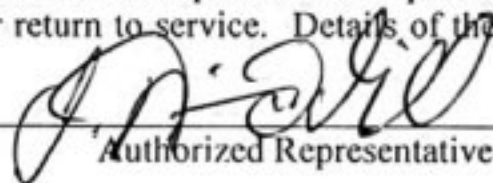
Mooney M20M  
Hobbs: 1033.7 Hrs

S/N: 27-0287  
ACTT: 1033.7 Hrs

- Removed nose wheel and disassembled. Cleaned and inspected wheel halves with no discrepancies noted. Installed new tire P/N 070-312-0 S/N 7072S00066 with original tube and reassembled. Reinstalled to aircraft with new cotter key, serviced tire to 49psi.

I certify that this **aircraft** has been inspected in accordance with an **Annual Inspection** and was determined to be in airworthy condition.

I certify that only the work requested by the owner/operator and listed above was repaired and inspected in accordance with current Federal Aviation Regulations and was found to be airworthy for return to service. Details of the repair are on file at this agency under Work Order No. PA-17-08124.

  
Authorized Representative

YEAR:	RECORDING TACH TIME	TODAY'S FLIGHT	TOTAL TIME IN SERVICE	<b>Description of Inspections, Tests, Repairs and Alterations</b> <small>Entries must be endorsed with Name, Rating and Certificate Number of Technician or Repair Station. (See back cover for other specific entries.)</small>
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Page 1 of 2

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

N140RM  
11-05-18

Mooney M20M  
Hobbs: 1070.0 Hrs

S/N: 27-0287  
ACTT: 1070.0 Hrs

**Maintenance performed:**

- Completed **Annual Inspection** using Crownair Aviation Annual/100 Hour Inspection Checklist, Form CA 105.
- Complied with annual ELT inspection and functional test I/A/W FAR 91.207(d). all checks good at this time. Batteries due JAN 2025.
- Complied with **FAR 91.411** Part 43 Appendix E and **FAR 91.413** Part 43 Appendix F. Certified the following components to 25,000 feet: Pilot's Encoding Altimeter P/N 066-03064-0005, S/N 30115; and Transponder P/N 066-01156-0101, S/N 9592. No defects noted.
- Serviced #1 and #2 battery cell levels as required.
- Cleaned, inspected and greased all wheel bearings.
- Replaced inside and outside o-rings on left and right wing fuel caps with new P/N MS29513-338 & P/N MS29513-010.

YEAR:	RECORDING TACH TIME	TODAY'S FLIGHT	TOTAL TIME IN SERVICE	<b>Description of Inspections, Tests, Repairs and Alterations</b> <small>Entries must be endorsed with Name, Rating and Certificate Number of Technician or Repair</small>
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Page 2 of 2

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

N140RM  
11-05-18


Mooney M20M  
Hobbs: 1070.0 Hrs

S/N: 27-0287  
ACTT: 1070.0 Hrs

- Jack aircraft and removed Left and Right main gear shock discs. Replaced with all new main gear shock discs P/N J-11968-14. Performed gear retraction test. Checks good at this time.

I certify that this aircraft has been inspected in accordance with an **Annual Inspection** and was determined to be in airworthy condition.

I certify that only the work requested by the owner/operator and listed above was repaired and inspected in accordance with current Federal Aviation Regulations and was found to be airworthy for return to service. Details of the repair are on file at this agency under Work Order No. PA-18-08400.

  
 \_\_\_\_\_  
 Authorized Representative

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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Airtronics 12380 Airport Road Hanger 6 Martell, CA 95642-9521 TH3R867L  
 LOG ID# 622 06-December-2019 WO# 412  
 N140RM S/N 27-0287 MOONEY M20M

Pg 1 / 1

DISCREPANCY: 1)ADSB COMPLIANCE EQUIPMENT UPGRADE NEEDED. 2) 91.413 TRANSPONDER CERTIFICATION.

CORRECTIVE ACTION:

1)REMOVED KT76C TRANSPONDER P/N: 066-1156-0101 S/N:9592 PER CURRENT IM.  
 INSTALLED ADSB COMPLIANT TRANSPONDER: GARMIN GTX 345 WITH GPS, P/N:011-03302-40 S/N:3EG42991 IN  
 PILOTS AVIONICS PANEL IN ACCORDANCE WITH (IAW) STC No. SA01714WI. THE INSTALLATION WAS MADE IAW  
 FEDERAL AVIATION REGULATIONS AND FOUND TO BE AIRWORTHY, AND GARMIN INSTALLATION MANUAL#  
 190-00734-10, Rev 13, August 31, 2019. THE PAIRING AND ABSB COMPLIANCE WAS CHECKED AND FOUND TO  
 COMPLY WITH FAR 91.227.  
 2) THE TRANSPONDER TEST REQUIRED BY 14 CFR 91.413 HAVE BEEN PERFORMED. THE TRANSPONDER(S) MEET THE  
 REQUIREMENTS OF PART 43 APPENDIX F.  
 (NEXT TRANSPONDER TEST DUE 12/2021)

THE INSTALLATION WAS MADE IAW FEDERAL AVIATION REGULATIONS AND FOUND TO BE AIRWORTHY.

  
 Signed TH3R867L JASON KUBIAK

12/9/19  
 Date

YEAR: \_\_\_\_\_  
DATE

TOTAL  
TIME IN  
SERVICE

**Reference of Major Repairs and Major Alterations To**  
FAA Form ACA-337 by Date, or to the Work Order by Number and the Approving Agency



GOLD WING AVIATION  
An AIRTRONICS INC. company  
12380 Airport Road, Hangar 6  
Jackson, CA 95642 209-418-0004

REG: N 140RM      WO#: 461  
MAKE: MOONEY      MODEL: M20M  
S/N: 27-0287  
AFTT: 1116.50      TACH: 1116.50

LOCATION: INSPECTION

SERVICE DESCRIPTION:

- 1) Replaced ELT batteries with 6 new Duracell MN1300 Batteries. Next Due 12/2021
- 2) Removed and replaced Standby in line vacuum filter with new PN: AA2J4-6
- 3) Removed and replaced both LH and RH fuel cap o-rings with new Fluorosilicone o-rings PN: M25988/1-338
- 4) Removed and replaced LH landing light bulb with new PN: GE-4596. Operational checks good
- 5) Removed and sent out O2 bottle for hydrostatic test, re-installed oxygen bottle. Oxygen bottle is to be filled and checked for leaks when serviced. Oxygen system labeled inop until service is performed.
- 6) Serviced #1 and #2 battery cell levels as required.

The following work performed above was done in Accordance With (IAW) Mooney M20M MM.

I certify this airframe (S/N 27-0287) has been inspected IAW an annual inspection, IAW FAR 43 App. D and was determined to be airworthy at this time. Performed operational run of engine and controls IAW 43.15(c)(2), and found to be airworthy. Next due 1 January , 2021

I certify this aircraft has been inspected IAW a 12 month ELT inspection, IAW FAR 91.207 par. (d) and was determined to be airworthy. Next due December 30 2020. Battery Replacement Next Due: December, 09 2021

  
NAME: RANDY ZIEMER      RTS DATE: December 09, 2019  
CERT: A&P 3854194 IA

YEAR:

TOTAL  
TIME IN  
SERVICE**Reference of Major Repairs and Major Alterations To**

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

DA



GOLD WING AVIATION  
An AIRTRONICS INC. company  
12380 Airport Road, Hangar 6  
Jackson, CA 95642 209-418-0004

REG: N 140RM

WO#: 719

MAKE: MOONEY

MODEL: M20M

S/N: 27-0287

AFTT: 1189.00

TACH: 1189.00

LOCATION: INSPECTION

**SERVICE DESCRIPTION:**

- 1) Removed and replaced LH and RH taxi lights PN. GE 4596 Bulbs.
- 2) Removed and replaced RH trailing edge nav light with PN. A50828 Bulb
- 3) Adjusted LH and RH cowl flaps in Accordance With (IAW) Maintenance Manual (MM)
- 4) Serviced hydraulic reservoir with Aeroshell 41 hydraulic fluid.
- 5) Removed and replaced Battery 1 and Battery 2 with new Gill Batteries PN. G-243
- 6) Repaired "Heavy Seep" fuel leak from screw on RH upper wing root. Sealed with PR1422 B-1/2 Sealant as specified in MM
- 7) Installed new partial wing walk tape on RH wing leading edge.
- 8) Installed new Flight Special II 6 00-6 tires on LH and RH main wheels.
- 9) Removed, cleaned, inspected and re-greased all wheel bearings with Aeroshell 5 grease.
- 10) Performed general lubrication of all components in lubrication guide for 100hr service with specified lubrication.
- 11) Polished LH and RH fuel gauge at wing.

All applicable AD's are in compliance at this time.

The following work performed above was done in Accordance With (IAW) Mooney M20M MM

I certify this airframe (S/N 27-0287) has been inspected IAW an annual inspection, IAW FAR 43 App. D and was determined to be airworthy at this time. Performed operational run of engine and controls IAW 43.15(c)(2), and found to be airworthy. Next due 1 March, 2022.

I certify this aircraft has been inspected IAW a 12 month ELT inspection, IAW FAR 91.207 par. (d) and was determined to be airworthy. Next due February 30, 2022. Battery Replacement Next Due December, 09 2021.

NAME: RANDY ZIEMER

RTS DATE: February 07, 2021

CERT: A&amp;P 3854194 IA



YEAR: _____ DATE	TOTAL TIME IN SERVICE	Reference of Major Repairs and Major Alterations To FAA Form ACA-337 by Date, or to the Work Order by Number and the Approving Agency


Airtronics 12380 Airport Road Hanger 6 Martell, CA 95642-9521 TH3R867L  
 LOG ID# 737 28-October-2020 WO# 686  
 N140RM S/N 27-0287 MOONEY M20M TACH 1175.1

Pg 1 / 1

REMOVED: GARMIN GNS 430, P/N: 011-00280-00, S/N: 96305524.  
 INSTALLED: A GARMIN GTN650XI, P/N: 011-04631-00, S/N: 5FP001764 IN THE PILOTS PANEL. INSTALLATION(S)  
 WERE CARRIED OUT IAW APPROVED IMS, AND STCs. THE AIRCRAFT IS LISTED ON THE STCs APPROVED AML(S).  
 FULL DETAILS OF THE INSTALLATIONS CAN BE FOUND ON FAA 337 FILED THIS DATE FOR MAJOR ALTERATIONS.

THE CURRENT WEIGHT AND BALANCE WAS NEGLIGIBLE AND EQUIPMENT LIST HAS BEEN REVISED AND PROVIDED.

THE ABOVE WORK WAS CARRIED OUT IAW FEDERAL AVIATION REGULATIONS, AND FOUND TO BE AIRWORTHY.

  
 Signed TH3R867L JASON KUBIAK Date 11/4/20


YEAR:

A.D.  
NUMBER

TOTAL  
TIME IN  
SERVICE

**Airworthiness Directives**

Chronological Listing of Compliance and Method of Compliance

DAY

Airtronics 12380 Airport Road Hanger 6 Martell, CA 95642-9521 TH3R867L  
LOG ID# 763 08-February-2021 WO# 719 HOBBS 1189.1  
N140RM S/N 27-0287 MOONEY M20M

Pg 1 / 1

DISCREPANCY: 1) REPLACE ATTITUDE INDICATOR AND REPLACE HSI 2) 91.411 TESTING.

CORRECTIVE ACTION: 1) REMOVED KI-525A, KI-526, KMT-112, KG-102A AND VACUUM SYSTEM. INSTALLED A GARMIN GI-275 CERTIFIED AI, P/N: 011-04489-00, S/N: 5M2201129 AND CERTIFIED HSI, S/N: 5M2001148 IN THE PILOTS PANEL. INSTALLATION(S) WERE CARRIED OUT IAW APPROVED IMs, AND STCs. THE AIRCRAFT IS LISTED ON THE STCs APPROVED AML(S). FULL DETAILS OF THE INSTALLATIONS CAN BE FOUND ON FAA 337 FILED THIS DATE FOR MAJOR ALTERATIONS. 2) THE ALTIMETER AND ALTITUDE REPORTING EQUIPMENT HAVE BEEN TESTED AS REQUIRED BY 14 CFR 91.411, AND FOUND TO MEET THE REQUIREMENTS OF PART 43 APPENDIX E & F. (NEXT DUE 02/2023)

THE ABOVE ALTERATIONS WERE CARRIED OUT IAW APPROVED IM's AND FEDERAL AVIATION REGULATIONS AND FOUND TO BE AIRWORTHY.

 2/8/21  
Signed TH3R867L JASON KUBIAK Date


***Savage Aviation, LLC***

**20511 Skywest DR**

**Date**

**Airframe**

**Hayward CA 94541**

**09/28/2021**

**N140RM Make: Mooney Model: M20M S/N 27-0281 Hobbs: 1202.7 TT: 1202.7**

Removed and replaced all landing and taxi lights with LED lights P/N P36P2L X2 and P/N P36P2T X2 using existing wiring and mount brackets. Removed wing tip nav and strobe lights and installed LED unit P/N 01-0790725-11, 010790725-12 in existing light mount, using existing wiring harness. LED taxi, landing, and nav/strobe light installation considered a minor alteration.

Work performed in accordance with applicable maintenance manuals. Operations and/or leak check performed for work performed. Work limited to what is stated above



**Daniel Umanzor AP3776498**


YEAR:

TOTAL  
TIME IN  
SERVICE

**Manufacturers' Mandatory Service Bulletins**

Chronological Listing of Compliance and Method of Compliance

D.

*Savage Aviation, LLC*

20511 Skywest DR

Date

Airframe

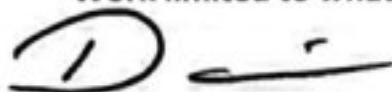
Hayward CA 94541

02/24/2022

**N140RM Make: Mooney Model: M20M S/N 27-0281 Hobbs: 1253.4 TT: 1253.4**

Performed battery capacity test on both aircraft batteries. Capacity test showed 90% on battery 1 and 88% on battery 2. Found rod end jam nut on left main gear actuator rod was loose. Retorqued jam nut and checked down lock values on all 3 gears. Removed and replaced both main gear brake pads with new P/N 66-105 X8.

Work performed in accordance with applicable maintenance manuals. Operations and/or leak check performed for work performed.  
Work limited to what is stated above



**Daniel Umazor AP3776498**


**Savage Aviation, LLC**

20511 Skywest DR

Date

Airframe

Hayward CA 94541

02/24/2022

**N140RM Make: Mooney Model: M20M S/N 27-0281 Hobbs: 1253.4 TT: 1253.4**

Aircraft <sup>Annual</sup> inspection performed in accordance with scope and detail of 43.13 appendix D. Performed visual inspection of aircrafts outer skins and accessible inner structures. Cleaned inspected and lubricated flight controls, engine controls, landing gear, and corresponding linkages and or pulleys. Inspected electrical installations and components for security of installation and chafing. Fuel system filters removed inspected and cleaned. Performed gear retraction and extension test. Performed 5X normal and 3X emergency gear extensions. No discrepancies noted at this time, service brake reservoir with MILL5606 fluid. Removed and replaced following components with new, induction air filter ED04028. FAR91.207(D) ELT test complied by visual, and operations test, no discrepancies noted ELT battery replacement Due 3-2023, AD list updated and added to aircraft records. Work performed in accordance with Moony M20M maintenance manuals

I Certify that this aircraft has been inspected in accordance with FAR 43 Appendix D (Annual) inspection and is in an airworthy condition at this time.

*EA Sather*

**Evan Sather AP3233776IA**

**TEXTRON** Lycoming

N140RM

#1

ENGINE LOG

— CLOSED —

**TEXTRON Lycoming**

652 Oliver Street  
Williamsport, PA 17701 U.S.A.  
570/323-6181

CRANKSHAFT.  
SERIAL #

✓ 537911409

PER CAROL OF  
LYCOMING.  
570 327-7048

# ENGINE LOG AND MAINTENANCE RECORD

RECORD OF TEXTRON LYCOMING TIO-540-AF1B L-10413-61A  
MAKE MODEL SERIAL

FROM \_\_\_\_\_ 19 \_\_\_\_ TO \_\_\_\_\_ 19 \_\_\_\_

DETAILING TIME FROM \_\_\_\_\_ TO \_\_\_\_\_

INSTALLED IN MOONEY MOOM  
HOURS

HOURS

SSP 1872-1

© 1994 by Textron Lycoming "All Rights Reserved"

October 1994

SIN 27-0287

R/N: N140RM

## NEW RECIPROCATING ENGINE CERTIFICATE

This is to certify that the engine as described hereinafter has been manufactured run-in and tested as prescribed by **TEXTRON LYCOMING** specifications and Federal Aviation Regulations. No further run-in is required. All applicable Federal Aviation Administration Directives and Textron Lycoming Service Bulletins have been complied with at time of Manufacture.

MODEL TIO-540-AF1B SERIAL NO. L-10413-61A  
DATE NOV 11 1999  
  
(AUTHORIZED REPRESENTATIVE)

**TEXTRON** Lycoming

652 Oliver Street  
Williamsport, PA 17701 U.S.A.



## ENGINE DESCRIPTION

Mfgr. <b>TEXTRON LYCOMING</b>	Place <b>Williamsport, PA 17701</b>	Date	
Type	Model	Serial No.	
Rated H.P.	Max. H.P.	Weight (Dry)	
Rated R.P.M.	Max. R.P.M.	Oil Pressure	
Bore	Stroke	Displacement	Cu. In.
Compression Ratio	Supercharger Ratio		
Reduction Gear Ratio			
Propeller	Hub Design	Hub Serial No.	
Blade Design	Blade Serial No.	Blade Serial No.	
Max. Hub H.P.	Max. Blade H.P.		
Pitch	Diameter	Length	
Name			
Address			

# ENGINE LOG

Serial No. \_\_\_\_\_

Date

## ARAPAHOE AERO

12760 EAST CONTROL TOWER ROAD ENGLEWOOD, COLORADO 80112 (303) 799-8386

**N140RM**      **Lycoming**      **TIO-540-AF1B**      **s/n: L-10413-61A**      **TT: 21.4**

**16 MARCH 2000**      **Hobbs: 0021.4**

Installed new rate controller, P/N LW-10098, S/N BGN 15782, using new gasket and O-rings. Flight check

Use  
number

FAA FORM 8130-3

AIRWORTHINESS APPROVAL TAG

User / Installer Responsibilities

It is important to understand that the existence of this Document alone, does not automatically constitute authority to install the part/component/assembly.

Where the user/installer work in accordance with the national regulations of an Airworthiness Authority different than the Airworthiness Authority of the country specified in block 1, it is essential that the user/installer ensures that his/her Airworthiness Authority accepts parts/components/assemblies from the Airworthiness Authority of the country specified in block 1.

Statements in block 14 and 19 do not constitute installation certification. In all cases aircraft maintenance records must contain an installation certification issued in accordance with the national regulations by the user/installer before the aircraft may be flown.

of a

# ENGINE LOG

Serial No. \_\_\_\_\_

Date	Time		REPAIRS - ADJUSTMENTS - SERVICE - REMARKS	Signature	License Number
	Hrs	Min			
3/28/00	47.9		Changed oil & filter with KC 20-50, changed filter, inspected filter - normal, test RAN checked for leaks - none	<i>[Signature]</i>	503561009
8/2/00	74.9		Changed oil & filter w/ KC 20-50, inspected filter no contaminants found. Test RAN for leakage - no leaks	<i>[Signature]</i>	503561009
11/4/00	108.2		Changed oil (15-50 Aera) + Filter, cut & inspected filter - no contaminants, full-leak checked - OK	<i>[Signature]</i>	503561009
			Page Total	All Repair Data Must Bear the Endorsement of a Certificated Mechanic, and his Rating and Certificate Number MUST be Shown.	
			Brought Forward		
			Total to Date		

# ENGINE LOG

Serial No. \_\_\_\_\_

Date	Time		REPAIRS - ADJUSTMENTS - SERVICE - REMARKS	Signature	License Number
	Hrs	Min			
11/27/01	131	1	Changed oil (15-50 Quaker) + Filter. Cut, inspected filter - OK. Row test checked - OK	<i>[Handwritten Signature]</i>	503561009

		Page Total Brought Forward Total to Date	All Repair Data Must Bear the Endorsement of a Certificated Mechanic, and his Rating and Certificate Number MUST be Shown.
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# ENGINE LOG

Serial No. \_\_\_\_\_

Date	Time		REPAIRS - ADJUSTMENTS - SERVICE - REMARKS	Signature	License Number
	Hrs	Min			

## ARAPAHOE AERO

12760 EAST CONTROL TOWER ROAD ENGLEWOOD, COLORADO 80112 (303) 799-8386

N140RM Lycoming TIO-540-AFIB S/N: L-10413-61A Total Time: 134.7

5 March 2001 Tach: 134.7

100 Hour inspection for annual completed this date using the Mooney M20M inspection form as a guide. Compression test #1) 78/80 #2) 76/80 #3) 79/80 #4) 76/80 #5) 78/80 #6) 78/80. Cut oil filter open and inspected, no contaminated noted. No oil change at this time. Cleaned and resealed fuel injectors. Cleaned, gapped, tested and rotated spark plugs. Checked engine timing. Checked and lubed engine controls. Adjusted and saftied Density controller per Lycoming SI 1187J. Adjusted engine idle mixture. Installed missing baffle screw. Checked torque on exhaust clamps and nuts. Installed anti chafe material around starter wire by #2 induction tube. C/W Lycoming AD 93-02-05 (fuel injection lines) by visual inspection, no defects noted. Lycoming AD 2000-18-53 (oil filter adapter plate) N/A by model. AD's checked through bi-weekly 2001-03. I CERTIFY THAT THIS ENGINE HAS BEEN INSPECTED IN ACCORDANCE WITH A 100 HOUR INSPECTION AND WAS DETERMINED TO BE IN AN AIRWORTHY CONDITION.

  
Michael Nigro A&P 470942287

w/o 17264

# ENGINE LOG

Serial No. \_\_\_\_\_

Date	Time		REPAIRS - ADJUSTMENTS - SERVICE - REMARKS	Signature	License Number
	Hrs	Min			

_____	REG NO <u>140RM</u>	<b>CHANDLER AVIATION INC</b>	DATE <u>05/25/01</u>
_____	MODEL <u>M20M</u>	CHANDLER MUNICIPAL	WO# <u>16396</u>
_____	S/N <u>27-0287</u>	CHANDLER, AZ	HOBBS <u>172</u>
_____	ENG MOD <u>TIO540AF1E</u>	(480) 732-9118	TACH <u>XXX</u>
_____	ENG S/N <u>L0141360A</u>		TOTAL <u>XXX</u>

THE AIRCRAFT AND/OR COMPONENT IDENTIFIED ABOVE WAS REPAIRED AND INSPECTED IN ACCORDANCE WITH CURRENT FEDERAL AIR REGULATIONS AND WAS FOUND AIRWORTHY FOR RETURN TO SERVICE ON THE DATE STATED ABOVE. PERTINENT DETAILS OF THE REPAIR ARE ON FILE AT THIS AGENCY.

_____	SIGNATURE <u><i>John P. N.S.</i></u>	AUTHORIZED NO. <u>316866035</u>
_____	A&P _____	

Drained engine oil & serviced with 9 QTS A/S 15W50 oil. Installed new oil filter. Ground ran & leak checked satisfactory.

END

			Page Total	All Repair Data Must Bear the Endorsement of a Certificated Mechanic, and his Rating and Certificate Number MUST be Shown.
			Brought Forward	
			Total to Date	

# ENGINE LOG

Serial No. \_\_\_\_\_

**CROWNAIR**

**FAA Approved Repair Station #CWNR273K**

**3753 John J. Montgomery Dr.**

**San Diego, CA 92123**

License  
Number

Reg # N140RM

Model: M20M

SN: 27-0281

Date: October 4, 2001

Hobbs: 200.1

Changed the oil and filter, serviced with 10 quarts Shell 15W50.

The aircraft identified above was repaired and inspected in accordance with current Federal Aviation Regulations and was approved for return to service. Pertinent details of the repair are on file at this repair station under Work Order # LT-01-01289.

  
Authorized Representative

# ENGINE LOG

Serial No. \_\_\_\_\_

D

**CROWNAIR**

License  
Number

**FAA Approved Repair Station #CWNR273K**

**3753 John J. Montgomery Dr.**

**San Diego, CA 92123**

Reg # N140RM

Model: M20M

SN: 27-0281

Date: December 11, 2001

Hobbs: 225.3

Changed the oil and filter, serviced with 10 quarts Shell 15W50.

The aircraft identified above was repaired and inspected in accordance with current Federal Aviation Regulations and was approved for return to service. Pertinent details of the repair are on file at this repair station under Work Order # LT-01-01367.

  
\_\_\_\_\_  
Authorized Representative



ENGINE LOG

CROWNAIR

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

License  
Number

Reg. #. N140RM

Model: M20M

S/N: 27-0287

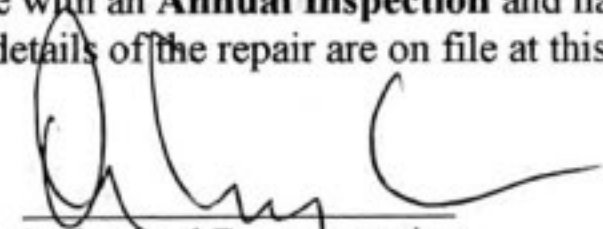
Date: March 8, 2002

Hobbs: 236.8

SNEW: 236.8

Changed oil and replaced filter serviced system with 10 qts Shell 15/50W. Took oil and sample and sent for analysis. **CW AD 93-02-05** inspection of fuel nozzles and lines. Compressions as follows: 1. 76/80 2. 74/80 3. 77/80 4. 74/80 5. 74/80 6. 74/80.

I certify that this engine has been inspected in accordance with an **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-02-01443



Authorized Representative

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

License  
Number

Reg # N140RM

Model: M20M

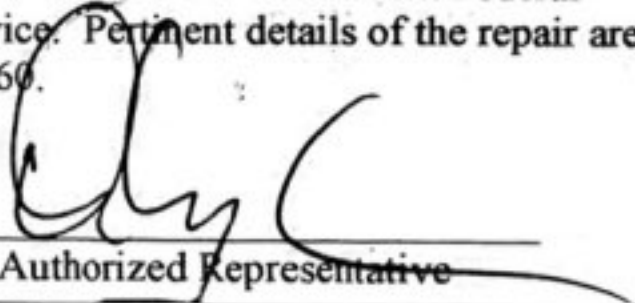
SN: 27-0281

Date: July 09, 2002

Hobbs: 261.3

Changed the oil and filter, serviced with 10 quarts Shell 15W50.

The aircraft identified above was repaired and inspected in accordance with current Federal Aviation Regulations and was approved for return to service. Pertinent details of the repair are on file at this repair station under Work Order # LT-02-01560.

  
Authorized Representative

			Page Total
			Brought Forward
			Total to Date

All Repair Data Must Bear the Endorsement of a  
Certificated Mechanic, and his Rating and  
Certificate Number MUST be Shown.

**CROWNAIR**

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

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\_\_\_\_\_  
Reg # N140RM  
Date: August 26, 2002

Model: M20M  
Hobbs: 282.5

SN: 27-0281

\_\_\_\_\_  
\_\_\_\_\_  
Changed the oil and filter, serviced with 10 quarts Shell 15W50.

\_\_\_\_\_  
\_\_\_\_\_  
The aircraft identified above was repaired and inspected in accordance with current Federal Aviation Regulations and was approved for return to service. Pertinent details of the repair are on file at this repair station under Work Order # LT-02-01614.

  
\_\_\_\_\_  
Authorized Representative

			Page Total
			Brought Forward
			Total to Date

All Repair Data Must Bear the Endorsement of a  
Certificated Mechanic, and his Rating and  
Certificate Number MUST be Shown.

# ENGINE LOG

Serial No. \_\_\_\_\_

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


Reg # N140RM  
Date: November 14, 2002

Model: M20M  
Hobbs: 301.5

SN: 27-0281

Changed the oil and filter, serviced with 10 quarts Shell 15W50.

The aircraft identified above was repaired and inspected in accordance with current Federal Aviation Regulations and was approved for return to service. Pertinent details of the repair are on file at this repair station under Work Order # LT-02-01696

  
Authorized Representative

License  
Number

a

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

\_\_\_\_\_  
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**License  
Number**  
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Reg. #. N140RM  
Date: March 21, 2003

Model: M20M  
Hobbs: 312.8

S/N: 27-0287  
SNEW: 312.8

Changed oil and replaced filter serviced system with 10 qts Shell 15/50W. Took oil and sample and sent for analysis. **CW AD 93-02-05** inspection of fuel nozzles and lines. Compressions as follows: 1. 76/80 2. 76/80 3. 76/80 4. 78/80 5. 78/80 6. 76/80.

I certify that this engine has been inspected in accordance with an **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-03-01818.

  
\_\_\_\_\_  
Authorized Representative

**ENGINE LOG**

**CROWNAIR**

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

Serial No.

Date

Engine  
Number

Reg # N140RM

Model: M20M

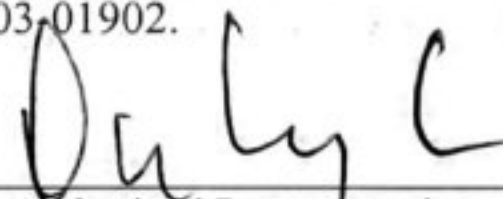
SN: 27-0287

Date: June 5, 2003

Hobbs: 336.9

Changed the oil and filter, serviced with 10 quarts Shell 15W50. Took oil sample for analysis.

The aircraft identified above was repaired and inspected in accordance with current Federal Aviation Regulations and was approved for return to service. Pertinent details of the repair are on file at this repair station under Work Order #LT-03-01902.

  
Authorized Representative

# ENGINE LOG

Serial No. \_\_\_\_\_

Time

License  
Number

**CROWNAIR**

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

Reg # N140RM

Model: M20M

SN: 27-0281

Date: September 30, 2003

Hobbs: 359.5

Changed the oil and filter, serviced with 10 quarts Shell 15W50.

The aircraft identified above was repaired and inspected in accordance with current Federal Aviation Regulations and was approved for return to service. Pertinent details of the repair are on file at this repair station under Work Order # LT-03-02009

  
Authorized Representative

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

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Reg. #. N140RM

Model: M20M

S/N: 27-0287

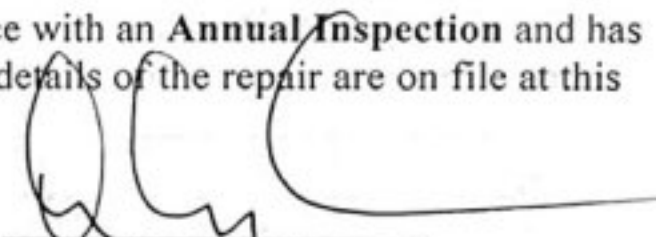
Date: February 17, 2004

Hobbs: 381.3

SNEW: 381.3

Changed oil and replaced filter serviced system with 10 qts Shell 15/50W. Took oil and sample and sent for analysis. **CW AD 02-26-01** inspection of fuel nozzles and lines. Compressions as follows: 1. 76/80 2. 76/80 3. 74/80 4. 76/80 5. 76/80 6. 76/80.

I certify that this engine has been inspected in accordance with an **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-04-02123

  
Authorized Representative

		Brought Forward
		Total to Date

Certificated Mechanic, and his Rating and Certificate Number MUST be Shown.



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

\_\_\_\_\_  
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License  
Number  
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Reg # N140RM

Model: M20M

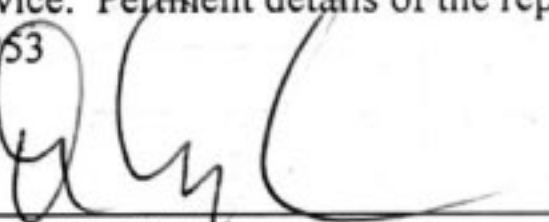
SN: 27-0281

Date: April 8, 2004

Hobbs: 405.4

Changed the oil and filter, serviced with 10 quarts Shell 15W50.

The aircraft identified above was repaired and inspected in accordance with current Federal Aviation Regulations and was approved for return to service. Pertinent details of the repair are on file at this repair station under Work Order # LT-04-02253



\_\_\_\_\_  
Authorized Representative

			Page Total
			Brought Forward
			Total to Date

All Repair Data Must Bear the Endorsement of a  
Certificated Mechanic, and his Rating and  
Certificate Number **MUST** be Shown.

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

Reg # N140RM

Model: M20M

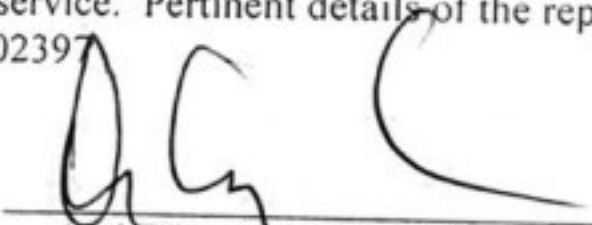
SN: 27-0281

Date: December 10, 2004

Hobbs: 428.8

Changed the oil and filter, serviced with 10 quarts Shell 15W50. Cleaned and gapped all spark plugs. Inspected and cleaned induction air filter..

The aircraft identified above was repaired and inspected in accordance with current Federal Aviation Regulations and was approved for return to service. Pertinent details of the repair are on file at this repair station under Work Order # LT-04-02397

  
Authorized Representative

License Number

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

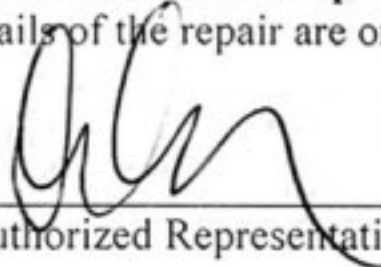
Reg. #. N140RM  
Date: April 3, 2005

Model: M20M  
Hobbs: 433.3

S/N: 27-0287  
SNEW: 433.3

**CW AD 02-26-04** inspection of fuel nozzles and lines. Compressions as follows: 1. 77/80 2. 74/80 3. 73/80 4. 75/80 5. 73/80 6. 75/80. Removed left magneto replaced points and reinstalled.

I certify that this engine has been inspected in accordance with an **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-05-02502.

  
Authorized Representative

License  
Number

			Page Total
			Brought Forward
			Total to Date

All Repair Data Must Bear the Endorsement of a  
Certificated Mechanic, and his Rating and  
Certificate Number **MUST** be Shown.

# ENGINE LOG

Serial No

CROWNAIR

FAA Approved Repair Station #CWNR273K

3753 John J. Montgomery Dr.

San Diego, CA 92123

License  
Number

Reg # N140RM

Model: M20M

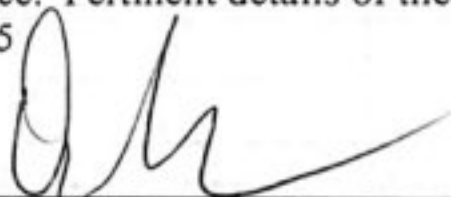
SN: 27-0281

Date: July 20, 2005

Hobbs: 455.9

Changed the oil and filter, serviced with 10 quarts Shell 15W50. Took oil sample sent for analysis.

The aircraft identified above was repaired and inspected in accordance with current Federal Aviation Regulations and was approved for return to service. Pertinent details of the repair are on file at this repair station under Work Order # LT-05-02625



Authorized Representative

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

License  
Number

Reg # N140RM

Model: M20M

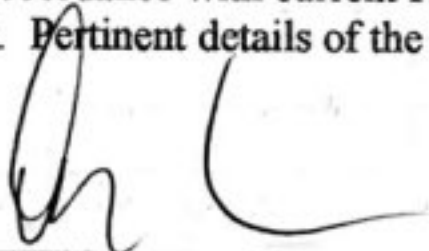
SN: 27-0281

Date: October 12, 2005

Hobbs: 482.1

Changed the oil and filter, serviced with 10 quarts Shell 15W50.

The aircraft identified above was repaired and inspected in accordance with current Federal Aviation Regulations and was approved for return to service. Pertinent details of the repair are on file at this repair station under Work Order # LT-05-02625



Authorized Representative

		Page Total
		Brought Forward
		Total to Date

All Repair Data Must Bear the Endorsement of a Certified Mechanic, and his Rating and Certificate Number MUST be Shown.

CROWN AIR

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

License  
Number

Date

Reg. #. N140RM

Model: M20M

S/N: 27-0287

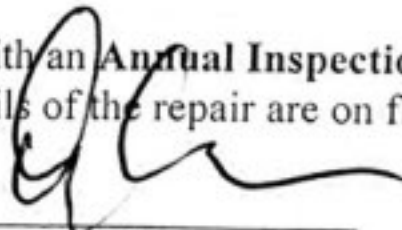
Date: April 18, 2006

Hobbs: 504.3

SNEW: 504.3

Changed oil and replaced filter serviced system with 10 qts Shell 15/50W. Took oil and sample and sent for analysis. CW AD 02-26-01 inspection of fuel nozzles and lines. Compressions as follows: 1. 76/80 2. 76/80 3. 78/80 4. 76/80 5. 76/80 6. 76/80. Replaced induction air filter to CW AD 84-26-02, due again in 500 hrs. Removed both magnetos Replaced block and rotor and rotor gear in both magnetos and the points in the right magneto. Reinstalled magnetos and timed to 25 degrees.

I certify that this engine has been inspected in accordance with an **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-06-02924.

  
Authorized Representative

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

Reg # N140RM

Model: M20M

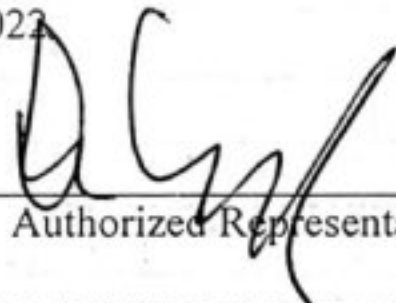
SN: 27-0281

Date: July 14, 2006

Hobbs: 527.4

Changed the oil and filter, serviced with 10 quarts Shell 15W50.

The aircraft identified above was repaired and inspected in accordance with current Federal Aviation Regulations and was approved for return to service. Pertinent details of the repair are on file at this repair station under Work Order # LT-06-03022

  
Authorized Representative

		Brought Forward
		Total to Date

All repair data must bear the endorsement of a Certified Mechanic, and his Rating and Certificate Number MUST be Shown.

# ENGINE LOG

CROWNAIR

FAA Approved Repair Station #CWNR273K

3753 John J. Montgomery Dr.

San Diego, CA 92123

License  
Number

Reg # N140RM

Model: M20M

SN: 27-0281

Date: January 4, 2006

Hobbs: 549.8

Changed the oil and filter, serviced with 10 quarts Shell 15W50.

The aircraft identified above was repaired and inspected in accordance with current Federal Aviation Regulations and was approved for return to service. Pertinent details of the repair are on file at this repair station under Work Order # LT-06-03226



Authorized Representative

Certificate Number, and the rating and  
Certificate Number MUST be Shown.

			Total to Date
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# ENGINE LOG

Serial No. \_\_\_\_\_

CROWNAIR

FAA Approved Repair Station #CWNR273K

3753 John J. Montgomery Dr.

San Diego, CA 92123

License  
Number  
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Reg. #. N140RM

Model: M20M

S/N: 27-0287

Date: April 27, 2007

Hobbs: 560.4

SNEW: 560.4

CW AD 02-26-01 inspection of fuel nozzles and lines. Compressions as follows: 1. 76/80 2. 76/80 3. 76/80 4. 74/80 5. 76/80 6. 74/80.

I certify that this engine has been inspected in accordance with an **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-07-03355.

  
Authorized Representative

Brought Forward

Total to Date

Certificated mechanic, and his name and  
Certificate Number MUST be Shown.

# ENGINE LOG

Serial No. \_\_\_\_\_

Time

License  
Number

CROWNAIR

FAA Approved Repair Station #CWNR273K

3753 John J. Montgomery Dr.

San Diego, CA 92123

Reg # N140RM

Model: M20M

SN: 27-0281

Date: June 28, 2007

Hobbs: ~~541.3~~ 572.0

Changed the oil and filter, serviced with 10 quarts Shell 15W50.

The aircraft identified above was repaired and inspected in accordance with current Federal Aviation Regulations and was approved for return to service. Pertinent details of the repair are on file at this repair station under Work Order # LT-07-03480.

  
\_\_\_\_\_  
Authorized Representative

**ENGINE LOG**

Serial No.

**CROWNAIR**

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

License  
Number

Reg # N140RM

Model: M20M

SN: 27-0281

Date: august 30, 2007

Hobbs: 591.3

Changed the oil and filter, serviced with 10 quarts Shell 15W50.

The aircraft identified above was repaired and inspected in accordance with current Federal Aviation Regulations and was approved for return to service. Pertinent details of the repair are on file at this repair station under Work Order # LT-07-03480.

  
Authorized Representative

Total to Date

Certificate Number MUST be Shown.

# ENGINE LOG

Serial No. \_\_\_\_\_

Air 88 Inc. dba CROWNAIR  
FAA Approved Repair Station #CWNR273K  
3753 John J. Montgomery Dr.  
San Diego, CA 92123

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Reg. #: N140RM  
Date: 03/17/08

Model: Mooney M20M  
Hobbs Time: 613.5

SN: 27-0287

Changed oil and filter, serviced with 10 quarts Shell 15W50 oil.

The aircraft identified above was repaired and inspected in accordance with current Federal Aviation Regulations and was approved for return to service. Pertinent details of the repair are on file at this Repair Station under work order LT-08-03764.

  
\_\_\_\_\_  
Authorized Representative

CWNR273K

# ENGINE LOG

Serial No

Air 88 Inc. dba CROWNAIR  
FAA Approved Repair Station #CWNR273K  
3753 John J. Montgomery Dr.  
San Diego, CA 92123

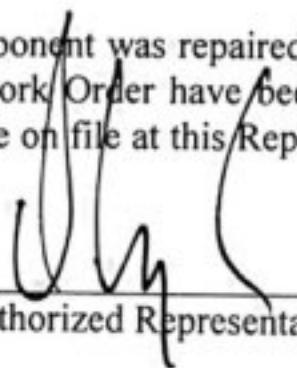
Reg. #: N140RM  
Date: 08/28/08

Model: Mooney M20M  
Hobbs Time: 638.4

SN: 27-0287

Changed oil and filter, serviced with 10 quarts Shell 15W50 oil.

I certify that with respect to the work performed this aircraft or component was repaired and inspected in accordance with current FAA regulations. Only those items specified in the Work Order have been inspected and found to be Airworthy and Returned to Service. Pertinent details of this repair are on file at this Repair Station under Work Order #LT-08-03936.

  
\_\_\_\_\_  
Authorized Representative

				Total to Date
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Certificate Number MUST be Shown.

LYCOMING TIO-540-AF1B S/N L-10413-61A IRAN INSPECTION / CRANKSHAFT CHANGE IAW  
MANUAL # 60294-7-9 AND LYCOMING SB 569A, WITH THE FOLLOWING PARTS INSTALLED:  
1EA 13E47622 CRANKSHAFT S/N V537946573 ( FROM CRANKSHAFT KIT P/N 05K23579 ), 1EA  
LW-19340 CAMSHAFT, 2EA 71903-A BUSHING, 2EA 71903-A BUSHING, 4EA 71903-B BUSHING,  
6EA 73772 NOZZLE ASM, 12EA 72877R REGROUNG LIFTER, 1EA 1028-B BALL, 1EA LW-11713  
OIL PSI SPRING, 1EA STD-2231 RET RING, 2EA 76788 ROLLER, 2EA LW-15558 ROLLER, 1EA  
STD-1211 PLUG, 1EA AN565B1032H5, 1EA STD-2168 NUT, 3EA LW-31H0.88 BOLT, 1EA STD-  
1737 RET RING, 2EA LW-25-0.63 BOLT, 1EA 05K23463 IMPELLER KIT, 1EA AS3582-009 O-RING,  
1EA MS16562-28 PIN, 1EA STD-95 KEY, 1EA CH48110-1 OIL FILTER, 1EA LW-11485 SHROUD  
TUBE, 6EA STD-1821 HOSE, 12EA LW-15592-5-05 CLAMP, 12EA RHB37E SPARK PLUG, 4EA  
STD-1901 STUD, 6EA 69603 HOSE, 12EA LW-15592-8-28 CLAMP, 12EA LW-15592-8-24 CLAMP,  
15EA MS21044N3 NUT, 4EA STD-2044 NUT, 6EA LW-18737 HOSE, 16EA LW-15592-5-04 CLAMP,  
2EA STD-2048 HOSE, 8EA 71907 PLATE, 8EA LW-14820 RET RING, 1EA MS29512-08 O-RING,  
1EA AEL19600 VERNATHERM, 1EA LW-RF2.239-.070 O-RING, 12EA 951391 PACKING, 1EA STD-  
1211 PLUG, 6EA 77611 GASKET, 12EA AEL60009 KEY, 12EA MS13997-3 KEY, 6EA MS13998-3  
CAP, 6EA AEL13790 SHAFT, 12EA AEL12892 THRUST BUTTON, 2EA 67542 BEARING, 4EA  
68H22624 CUSHION, 1EA STD-1339 PLUG, 1EA MS29512-10 O-RING, 6EA STD-2180 HOSE. THE  
FOLLOWING PARTS O.K. FOR CONTINUE TIME IN SERVICE: 1EA 11E24003-S3 CRANKCASE  
I.D. # K0955, 6EA 16A22023 CYLINDER ASM, 1EA 6361 MAGNETO S/N 99110238, 1EA 6360  
MAGNETO S/N 99071759, 1EA M2965 HARNESS, 1EA RG17980U/M FUEL PUMP S/N: C4900, 1EA  
149-24LS STARTER S/N F4L-369905. PORT MATCH & FLOW BALANCE CYLINDERS. TEST RUN  
1.5 HOURS. ALL INFORMATION ON FILE AT LY-CON REBUILDING CO. REFERENCE WO  
33153.

PAGE 1 OF 2

LY-CON REBUILDING CO. 8231 Doe Avenue Visalia, CA 93291 (559) 651-1070

Air 88 Inc. dba CROWNAIR  
FAA Approved Repair Station #CWNR273K  
3753 John J. Montgomery Dr.  
San Diego, CA 92123

Reg. #: N140RM  
Date: 06/30/09

Model: Mooney M20M  
Hobbs Time: 657.1

SN: 27-0287

Installed new push rod seals on cylinders #1, #3 and #5. Installed new gasket.

The aircraft identified above was repaired and inspected in accordance with current Federal Aviation Regulations and was approved for return to service. Pertinent details of the repair are on file at this Repair Station under work order LT-09-04229.

  
Authorized Representative

CWNR273K

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# Service Bulletins, Letters, Instructions & A D Notes

DATE \_\_\_\_\_

Air 88 Inc. dba CROWNAIR  
FAA Approved Repair Station #CWNR273K  
3753 John J. Montgomery Dr.  
San Diego, CA 92123

Reg. #: N140RM  
Date: 07/20/09

Model: Mooney M20M  
Hobbs Time: 669.2

SN: 27-0287

Changed oil and filter, serviced with 10 quarts Shell 15W50 oil.

The aircraft identified above was repaired and inspected in accordance with current Federal Aviation Regulations and was approved for return to service. Pertinent details of the repair are on file at this Repair Station under work order LT-09-04290.

\_\_\_\_\_  
Authorized Representative

CWNR273K



DATE \_\_\_\_\_

# Service Bulletins, Letters, Instructions & A D Notes

Air 88 Inc. dba CROWNAIR  
FAA Approved Repair Station #CWNR273K  
3753 John J. Montgomery Dr.  
San Diego, CA 92123

Reg. #: N140RM

Date: 09/30/09


Model: MOONEY M20M

Hobbs Time: ~~392~~ 694.0

SN: 27-0287

Changed oil and filter, serviced with 9 quarts Shell 15W50 oil. Performed compression check on all cylinders #1- 78, #2- 76, #3-75, #4- 76, #5-77, #6-7C.

The aircraft identified above was repaired and inspected in accordance with current Federal Aviation Regulations and was approved for return to service. Pertinent details of the repair are on file at this Repair Station under work order LT-09-04417.

  
Authorized Representative

CWNR273K

# Service Bulletins, Letters, Instructions & A D Notes

DATE \_\_\_\_\_

Air 88 Inc. dba CROWNAIR  
FAA Approved Repair Station #CWNR273K  
3753 John J. Montgomery Dr.  
San Diego, CA 92123

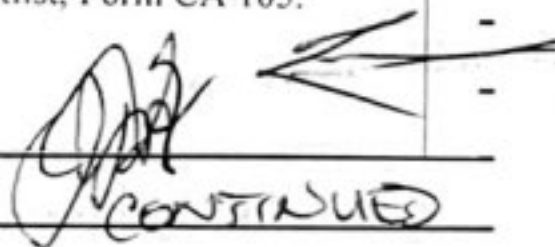
LYCOMING  
N140RM  
4/07/2010

TIO-540-AFIB  
MOONEY M20M  
HOBBS: 705.8

S/N: L-10413-61A  
S/N: 27-0287  
TSN: 705.8  
TTAF: 705.8

**Maintenance performed:**

- Completed **Annual Inspection** I/A/W Crownair 100 Hour/Annual Inspection Checklist, Form CA 105.
- Changed oil and filter, serviced with 10 quarts Shell 15-50 oil
- Cut open and inspected oil filter
- Complied with AD 2008-14-07 fuel injector lines and clamps, by inspection

  
CONTINUED

- Replaced crankshaft seal with new P/N: LW-13792
- Tightened exhaust "V" clamps
- Compressions are as follows- #1-78, #2-78, #3-77, #4-77, #5-78, #6-76

I certify that this **engine** and **propeller** have been inspected in accordance with an **Annual Inspection** and were determined to be in airworthy condition.

I certify that only the work requested by the owner/operator and listed above was repaired and inspected in accordance with current Federal Aviation Regulations and was found to be airworthy for return to service. Details of the repair are on file at this agency under Work Order #LT-10-04651.



Authorized Representative

Air 88 Inc. dba CROWNAIR  
FAA Approved Repair Station #CW1NR273K  
3753 John J. Montgomery Dr.  
San Diego, CA 92123

N140RM  
7-7-2010

MOONEY M20M  
HOBBS: 721.4

S/N: 27-0287

**Maintenance performed:**

- Changed oil and filter P/N: Ch48110-1, serviced with 10 quarts of 15W50 oil
- Resealed #4 cylinder pushrod tubes with seal(s) P/N: 70310 and LW18661
- Re torqued oil drain line clamps and intake pipe bolts on left cylinder bank
- Washed oil soaked cowling and engine

I certify that this **ENGINE** has been inspected in accordance with current FARs and was determined to be in airworthy condition.

I certify that only the work requested by the owner/operator and listed above was repaired and inspected in accordance with current Federal Aviation Regulations and was found to be airworthy for return to service. Details of the repair are on file at this agency under Work Order #LT-10- 04820



Authorized Representative

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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**Air 88 Inc. dba CROWNAIR**  
**FAA Approved Repair Station #CWNR273K**  
**3753 John J. Montgomery Dr.**  
**San Diego, CA 92123**

N140RM  
9-09-10

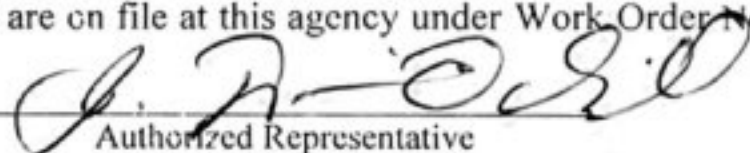
Mooney M20M  
Hobbs: 742.6 HRS

S/N: 27-0287

**Maintenance performed:**

- Changed oil and filter. Serviced with 9 Qts of Aeroshell 15W-50 oil.
- Took oil sample for analysis.

I certify that with respect to the work performed this **engine** was repaired and inspected in accordance with current FAA regulations. Only those items specified in the work order have been inspected and found to be airworthy and returned to service. Pertinent details of this repair are on file at this agency under Work Order No. LT-10-04923.

  
 Authorized Representative

**Air 88 Inc. dba CROWNAIR**  
**FAA Approved Repair Station #CWNR273K**  
**3753 John J. Montgomery Dr.**  
**San Diego, CA 92123**

LYCOMING  
N140RM  
4-29-2011

IO-540-AFIB  
MOONEY M20M  
HOBBS: 757.2

S/N: L-10413-61A  
S/N: 27-0287  
TSN: 757.2

**Maintenance performed:**

- Completed **Annual Inspection** I/A/W Crownair 100 Hour/Annual Inspection Checklist, Form CA 105.
- Changed oil and filter P/N: CH48110-1, serviced with 10 quarts of 15W50 oil.
- Cut open oil filter, inspected for contamination, found paint particles, took oil sample and sent out for analysis
- Installed one new spark plug P/N: RHB37E
- Complied with AD 2008-14-07, fuel injector lines inspection
- Checked magnetos points and gears for wear. Replaced left and right contact points with new P/N: M3081, installed new coil on left magneto P/N: K3975, reassembled both magnetos and time to engine, installed new gaskets.
- Replaced air filter with new P/N: ED04028
- Cleaned, scrapped and replaced all rocker cover gaskets with all new silicone gaskets
- Compressions are as follows- #1-77, #2-77, #3-75, #4-76, #5-77, #6-74



YEAR:	RECORDING TACH TIME	TODAY'S FLIGHT	TOTAL TIME IN SERVICE
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**Description of Inspections, Tests, Repairs and Alterations**

Entries must be endorsed with Name, Rating and Certificate Number of Technician or Repair

Air 88 Inc. dba CROWNAIR  
FAA Approved Repair Station #CWNR273K  
3753 John J. Montgomery Dr.  
San Diego, CA 92123

N140RM

9-09-10

Mooney M20M

Hobbs: 784.4 Hrs

S/N: 27-0287

**Maintenance performed:**

- Changed oil and filter. Serviced with 9 Qts of Aeroshell 15W-50 oil and installed new CH48110-1 oil filter. Washed engine.

I certify that with respect to the work performed this **engine** was repaired and inspected in accordance with current FAA regulations. Only those items specified in the work order have been inspected and found to be airworthy and returned to service. Pertinent details of this repair are on file at this agency under Work Order No. PA-11-05415.

  
Authorized Representative



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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**Air 88 Inc. dba CROWNAIR**  
**FAA Approved Repair Station #CWNR273K**  
**3753 John J. Montgomery Dr.**  
**San Diego, CA 92123**

N140RM  
10-21-11

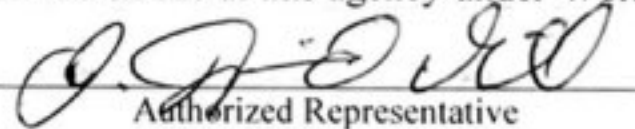
Mooney M20M  
Hobbs: 802.7 Hrs

S/N: 27-0287

**Maintenance performed:**

- Changed oil and filter. Serviced with 9 Qts of Aeroshell 15W-50 oil and installed new CH48110-1 oil filter.

I certify that with respect to the work performed this **engine** was repaired and inspected in accordance with current FAA regulations. Only those items specified in the work order have been inspected and found to be airworthy and returned to service. Pertinent details of this repair are on file at this agency under Work Order No. PA-11-05530.

  
 \_\_\_\_\_  
 Authorized Representative

Air 88 Inc. dba CROWNAIR  
FAA Approved Repair Station #CWNR273K  
3753 John J. Montgomery Dr.  
San Diego, CA 92123

Lycoming Engine  
N140RM  
5-01-12

TIO-540-AFIB  
Mooney M20M  
Hobbs: 814.1 Hrs

S/N: L-10413-61A  
S/N: 27-0287  
TSN: 814.1 Hrs

**Maintenance performed:**

- Completed **Annual Inspection** I/A/W Crownair 100 Hour/Annual Inspection Checklist, Form CA 105.
- Changed oil and filter. Serviced with 9 Qts of Aeroshell 15W-50 oil and installed new CH48110-1 oil filter.
- Cut open old oil filter and inspected with no metal contamination found.
- Compressions are as follows: #1. 78/80 #2. 70/80 #3. 74/80 #4. 70/80 #5. 75/80 #6. 72/80.
- Complied with **AD 2011-26-04** by inspection of fuel injector fuel lines and clamps I/A/W **Lycoming MSB 342F**) and no defects noted at this time. Due every 100 Hrs or annual inspection whichever occurs first. Due again @ 914.1 Hrs or May 2013.
- Verified **AD 2011-13-03** and found N/A due to time on turbocharger.
- Verified **AD 2012-03-06** and found N/A due to Precision fuel servo installed.
- Verified **AD 2012-03-07** and found N/A due to engine being fuel injected and has no carburetor.
- Retimed right magneto to match left at 20°.

Air 88 Inc. dba CROWNAIR  
FAA Approved Repair Station #CWNR273K  
3753 John J. Montgomery Dr.  
San Diego, CA 92123

Lycoming Engine  
N140RM  
5-01-12

TIO-540-AFIB  
Mooney M20M  
Hobbs: 814.1 Hrs

S/N: L-10413-61A  
S/N: 27-0287  
TSN: 814.1 Hrs

I certify that this **engine** has been inspected in accordance with an **Annual Inspection** and was determined to be in airworthy condition.

I certify that only the work requested by the owner/operator and listed above was repaired and inspected in accordance with current Federal Aviation Regulations and was found to be airworthy for return to service. Details of the repair are on file at this agency under Work Order #LT-11-05261.

  
Authorized Representative

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

BUTLER AIRCRAFT 705 SE SALMON AVE. REDMOND, OR 97756 (541) 923-1355

N140RM Model: M20M S/N: 27-0287 August 14, 2012

Hobbs: 838.1 W/O: N140RM8-8-12

Removed and replaced the starter (Sky-Tec M/N 149-24LS, S/N F4L-369905) with a new unit (S/N F4L-231202). Installed a new starter power terminal boot cover (P/N MS25171-3S). Performed an operational check of the new starter, found good.


 Richard Ingram A&P 542083175

BUTLER AIRCRAFT 705 SE SALMON AVE. REDMOND, OR 97756 (541) 923-1355

N140RM Model: O-540-AF1B S/N: August 14, 2012

Hobbs: 838.1 W/O: N140RM8-8-12

Changed oil with 9 qts. Aeroshell 15W50 and oil filter with a Champion CH48110-1. Performed engine run and leak check, no defects noted. Cut open oil filter to check for contaminants, none found.

 Richard Ingram A&P 542083175

YEAR:

RECORDING  
TACH  
TIMETODAY'S  
FLIGHTTOTAL  
TIME IN  
SERVICE**Description of Inspections, Tests, Repairs and Alterations**

Entries must be endorsed with Name, Rating and Certificate Number of Technician or Repair

Air 88 Inc. dba CROWNAIR  
 FAA Approved Repair Station #CWRN273K  
 3753 John J. Montgomery Dr.  
 San Diego, CA 92123

Lycoming Engine  
 N140RM  
 2-27-13

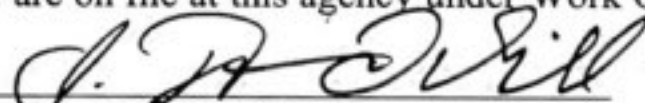
TIO-540-AF1B  
 Mooney M20M  
 Hobbs/ACTT: 860.5 Hrs

S/N: L-10413-61A  
 S/N: 27-0287  
 TSN: 860.5 Hrs

**Maintenance performed:**

- Changed oil and filter. Serviced with 9 Qts of Aeroshell 15W-50 oil and installed new CH48110-1 oil filter.
- Took oil sample and sent out for analysis.

I certify that with respect to the work performed this **engine** was repaired and inspected in accordance with current FAA regulations. Only those items specified in the work order have been inspected and found to be airworthy and returned to service. Pertinent details of this repair are on file at this agency under Work Order No. PA-13-06066.

  
 Authorized Representative

Air 88 Inc. dba CROWNAIR  
FAA Approved Repair Station #CWNR273K  
3753 John J. Montgomery Dr.  
San Diego, CA 92123

Lycoming Engine  
N140RM  
6-03-13

TIO-540-AFIB  
Mooney M20M  
Hobbs: 867.2 Hrs

S/N: L-10413-61A  
S/N: 27-0287  
TSN: 867.2 Hrs

**Maintenance performed:**

- Completed **Annual Inspection** using Crownair Aviation Annual/100 Hour Inspection Checklist, Form CA 105.
- Changed oil and filter. Serviced with 9 Qts of Aeroshell 15W-50 oil and installed new CH48110-1 oil filter.
- Cut open old oil filter and inspected with no metal contamination found.
- Took oil sample and sent out for analysis.
- Compressions are as follows: #1. 76/80 #2. 76/80 #3. 76/80 #4. 76/80 #5. 76/80 #6. 76/80.
- Complied with **AD 2011-26-04** by inspection of fuel injector fuel lines and clamps I/A/W **Lycoming MSB 342F**) and no defects noted at this time. Due every 100 Hrs or Annual Inspection whichever occurs first. Due again @ 967.2 Hrs or June 2014.
- Verified **AD 2012-19-01** and found P/C/W by replacement of crankshaft by Ly-Con Rebuilding on 3-13-09 @ 646.3 Hrs. No further action required.

Air 88 Inc. dba CROWNAIR  
FAA Approved Repair Station #CWNR273K  
3753 John J. Montgomery Dr.  
San Diego, CA 92123

Lycoming Engine  
N140RM  
6-03-13

TIO-540-AFIB  
Mooney M20M  
Hobbs: 867.2 Hrs

S/N: L-10413-61A  
S/N: 27-0287  
TSN: 867.2 Hrs

- Removed leaking vernatherm valve, cleaned sealing surfaces, reinstalled, tightened and safety wired. Ran engine and no leaks found.

I certify that this **engine** has been inspected in accordance with an **Annual Inspection** and was determined to be in airworthy condition.

I certify that only the work requested by the owner/operator and listed above was repaired and inspected in accordance with current Federal Aviation Regulations and was found to be airworthy for return to service. Details of the repair are on file at this agency under Work Order No. PA-13-06161.

  
Authorized Representative

YEAR:

RECORDING  
TAG#TODAY'S  
PLATE#TOTAL  
MILES ...

Description of Inspections, Tests, Repairs and Alterations

Air 88 Inc. dba CROWNAIR  
FAA Approved Repair Station #CWNR273K  
3753 John J. Montgomery Dr.  
San Diego, CA 92123

Lycoming Engine  
N140RM  
9-16-13

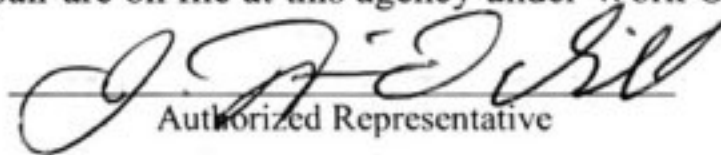
TIO-540-AF1B  
Mooney M20M  
Hobbs/ACTT: 887.0 Hrs

S/N: L-10413-61A  
S/N: 27-0287  
TSN: 887.0 Hrs

**Maintenance performed:**

- Changed oil and filter. Serviced with 9 Qts of Aeroshell 15W-50 oil and installed new CH48110-1 oil filter. Washed engine.
- Took oil sample and sent out for analysis.

I certify that with respect to the work performed this **engine** was repaired and inspected in accordance with current FAA regulations. Only those items specified in the work order have been inspected and found to be airworthy and returned to service. Pertinent details of this repair are on file at this agency under Work Order No. PA-13-06280.

  
Authorized Representative



Page 1 of 2

**Air 88 Inc. dba CROWNAIR**  
**FAA Approved Repair Station #CWNR273K**  
**3753 John J. Montgomery Dr.**  
**San Diego, CA 92123**

Lycoming Engine  
N140RM  
6-09-14

TIO-540-AFIB  
Mooney M20M  
Hobbs: 906.1 Hrs

S/N: L-10413-61A  
S/N: 27-0287  
TSN: 906.1 Hrs

**Maintenance performed:**

- Completed **Annual Inspection** using Crownair Aviation Annual/100 Hour Inspection Checklist, Form CA 105.
- Changed oil and filter. Serviced with 10 Qts of Aeroshell 15W-50 oil and installed new CH48110-1 oil filter.
- Cut open old oil filter and inspected with no metal contamination found.
- Took oil sample and sent in for analysis.
- Compressions are as follows: #1. 76/80 #2. 76/80 #3. 72/80 #4. 76/80 #5. 74/80 #6. 76/80.
- Complied with **AD 2011-26-04** by inspection of fuel injector fuel lines and clamps I/A/W **Lycoming MSB 342F**) and no defects noted at this time. Due again @ 1006.1 Hrs or June 2015.

Air 88 Inc. dba CROWNAIR  
FAA Approved Repair Station #CWNR273K  
3753 John J. Montgomery Dr.  
San Diego, CA 92123

Lycoming Engine  
N140RM  
6-09-14

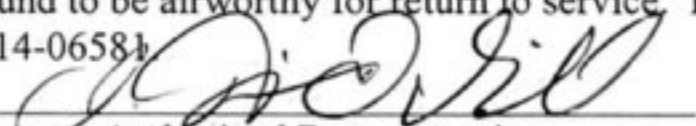
TIO-540-AFIB  
Mooney M20M  
Hobbs: 906.1 Hrs

S/N: L-10413-61A  
S/N: 27-0287  
TSN: 906.1 Hrs

- Removed cracked exhaust manifold, sent to Custom Aircraft Parts for repair and reinstalled using 5 new gaskets P/N 77611 and 1 gasket P/N 78084.
- Replaced all worn spark plugs with new P/N RHB37E and installed on lower position on cylinders.

I certify that this engine has been inspected in accordance with an **Annual Inspection** and was determined to be in airworthy condition.

I certify that only the work requested by the owner/operator and listed above was repaired and inspected in accordance with current Federal Aviation Regulations and was found to be airworthy for return to service. Details of the repair are on file at this agency under Work Order No. PA-14-06581

  
Authorized Representative

YEAR:	RECORDING TACH	TODAY'S FLIGHT	TOTAL TIME IN	<b>Description of Inspections, Tests, Repairs and Alterations</b> Entries must be endorsed with Name, Rating and Certificate Number of Technician or Repair
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**Air 88 Inc. dba CROWNAIR**  
**FAA Approved Repair Station #CWNR273K**  
**3753 John J. Montgomery Dr.**  
**San Diego, CA 92123**

Lycoming Engine  
 N140RM  
 10-13-14

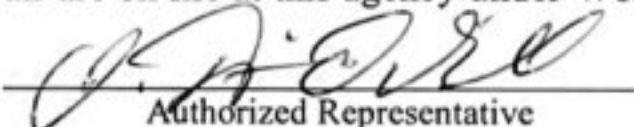
TIO-540-AF1B  
 Mooney M20M  
 Hobbs: 930.4 Hrs

S/N: L-10413-61A  
 S/N: 27-0287

**Maintenance performed:**

- Changed oil and filter. Serviced with 9 Qts of Aeroshell 15W-50 oil and installed new CH48110-1 oil filter.
- Took oil sample and sent out for analysis.

I certify that with respect to the work performed this **engine** was repaired and inspected in accordance with current FAA regulations. Only those items specified in the work order have been inspected and found to be airworthy and returned to service. Pertinent details of this repair are on file at this agency under Work Order No. PA-14-06772.

  
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 Authorized Representative

YEAR: _____ ----	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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Page 1 of 2

**Air 88 Inc. dba CROWNAIR**  
**FAA Approved Repair Station #CWNR273K**  
**3753 John J. Montgomery Dr.**  
**San Diego, CA 92123**

Lycoming Engine  
N140RM  
6-11-15

TIO-540-AFIB  
Mooney M20M  
Hobbs: 940.5 Hrs

S/N: L-10413-61A  
S/N: 27-0287  
TSN: 940.5 Hrs

**Maintenance performed:**

- Completed **Annual Inspection** using Crownair Aviation Annual/100 Hour Inspection Checklist, Form CA 105.
- Changed oil and filter. Serviced with 8 Qts of Aeroshell 15W-50 oil and installed new CH48110-1 oil filter.
- Cut open old oil filter and inspected with no metal contamination found.
- Took oil sample and sent in for analysis.
- Compressions are as follows: #1. 76/80 #2. 76/80 #3. 70/80 #4. 74/80 #5. 76/80 #6. 76/80.
- Complied with **AD 84-26-02** by inspection only of paper induction air filter and no defects found. Due every 100 Hrs or annual inspection. Due again @ 1040.5 Hrs or June 2016. Next replacement due @ 1257.2 Hrs.
- Complied with **AD 2011-26-04** by inspection of fuel injector fuel lines and clamps I/A/W **Lycoming MSB 342G**) and no defects noted at this time. Due again @ 1040.5 Hrs or June 2016.

Page 2 of 2

Air 88 Inc. dba CROWNAIR  
FAA Approved Repair Station #CWNR273K  
3753 John J. Montgomery Dr.  
San Diego, CA 92123

Lycoming Engine  
N140RM  
6-11-15

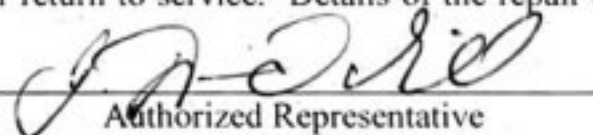
TIO-540-AFIB  
Mooney M20M  
Hobbs: 940.5 Hrs

S/N: L-10413-61A  
S/N: 27-0287  
TSN: 940.5 Hrs

- AD 2015-02-07 To prevent the prop governor shaft set screw from coming loose is N/A at this time. Due at next overhaul.

I certify that this **engine** has been inspected in accordance with an **Annual Inspection** and was determined to be in airworthy condition.

I certify that only the work requested by the owner/operator and listed above was repaired and inspected in accordance with current Federal Aviation Regulations and was found to be airworthy for return to service. Details of the repair are on file at this agency under Work Order No. PA-15-07126.

  
Authorized Representative

YEAR:

RECORDING  
TACHTODAY'S  
FLIGHTTOTAL  
TIME IN**Description of Inspections, Tests, Repairs and Alterations**

Entries must be endorsed with Name, Rating and Certificate Number of Technician or Repair

**Air 88 Inc. dba CROWNAIR**  
**FAA Approved Repair Station #CWNR273K**  
**3753 John J. Montgomery Dr.**  
**San Diego, CA 92123**

Lycoming Engine  
 N140RM  
 11-04-15

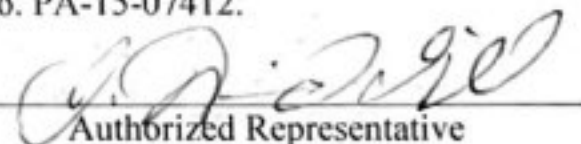
TIO-540-AF1B  
 Mooney M20M  
 Hobbs: 962.9 Hrs

S/N: L-10413-61A  
 S/N: 27-0287

**Maintenance performed:**

- Changed oil and filter. Serviced with 10 Qts of Aeroshell 15W-50 oil and installed new CH48110-1 oil filter.
- Took oil sample and sent out for analysis.

I certify that with respect to the work performed this **engine** was repaired and inspected in accordance with current FAA regulations. Only those items specified in the work order have been inspected and found to be airworthy and returned to service. Pertinent details of this repair are on file at this agency under Work Order No. PA-15-07412.

  
 \_\_\_\_\_  
 Authorized Representative

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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Page 1 of 2

**Air 88 Inc. dba CROWNAIR**  
**FAA Approved Repair Station #CWNR273K**  
**3753 John J. Montgomery Dr.**  
**San Diego, CA 92123**

Lycoming Engine  
N140RM  
6-06-16

TIO-540-AFIB  
Mooney M20M  
Hobbs: 974.9 Hrs

S/N: L-10413-61A  
S/N: 27-0287  
TSN: 974.9 Hrs

**Maintenance performed:**

- Completed **Annual Inspection** using Crownair Aviation Annual/100 Hour Inspection Checklist, Form CA 105.
- Changed oil and filter. Serviced with 10 Qts of Aeroshell 15W-50 oil and installed new CH48110-1 oil filter.
- Cut open old oil filter and inspected with no metal contamination found.
- Took oil sample and sent in for analysis.
- Compressions are as follows: #1. 76/80 #2. 78/80 #3. 76/80 #4. 76/80 #5. 76/80 #6. 78/80.
- Complied with **AD 84-26-02** by inspection only of paper induction air filter and no defects found. Due again @ 1074.9 Hrs or June 2017. Next replacement due @ 1257.2 Hrs.
- Complied with **AD 2015-19-07** by visual inspection of fuel injector fuel lines and clamps I/A/W Lycoming MSB 342G and no defects noted at this time. Due again @ 1074.9 Hrs or June 2017.

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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Page 2 of 2

**Air 88 Inc. dba CROWNAIR**  
**FAA Approved Repair Station #CWNR273K**  
**3753 John J. Montgomery Dr.**  
**San Diego, CA 92123**

Lycoming Engine  
N140RM  
6-06-16

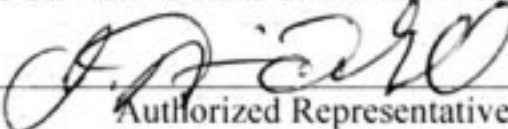
TIO-540-AFIB  
Mooney M20M  
Hobbs: 974.9 Hrs

S/N: L-10413-61A  
S/N: 27-0287  
TSN: 974.9 Hrs

- Replaced all worn bottom spark plugs with new RHB-37E.

I certify that this **engine** has been inspected in accordance with an **Annual Inspection** and was determined to be in airworthy condition.

I certify that only the work requested by the owner/operator and listed above was repaired and inspected in accordance with current Federal Aviation Regulations and was found to be airworthy for return to service. Details of the repair are on file at this agency under Work Order No. PA-16-07651.

  
 \_\_\_\_\_  
 Authorized Representative



YEAR:	RECORDING TAG#	TODAY'S FLIGHT	TOTAL TIME IN	Description of Inspections, Tests, Repairs and Alterations
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DA

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

Lycoming Engine  
N140RM  
11-09-16

TIO-540-AF1B  
Mooney M20M  
Hobbs: 998.2 Hrs

S/N: L-10413-61A  
S/N: 27-0287

**Maintenance performed:**

- Changed oil and filter. Serviced with 10 Qts of Aeroshell 15W-50 oil and installed new CH48110-1 oil filter and safetied as required. Test ran and leak checked OK.
- Placed 2 Qts of Aeroshell 15W-50 oil in aft baggage compartment per customer's request.

I certify that with respect to the work performed this **engine** was repaired and inspected in accordance with current FAA regulations. Only those items specified in the work order have been inspected and found to be airworthy for return to service. Details of the repair are on file at this agency under Work Order No. PA-16-07832.

  
Authorized Representative

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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— N140RM  
 — Mooney M20M S/N27-0287  
 — Date: 8/2/17  
 — Hobbs: 1025.9



— Serviced engine with 10 qts Aeroshell 15W50 (owner supplied).  
 — Removed and inspected oil filter, no debris found. Installed new CH48110-1 filter, torqued and safetyed.

— This aircraft is approved for return to service for the work performed.

— *Handwritten signature of Dale Sauer*

— Leading Edge Aviation  
 — FAA CRS#L9QR350Y  
 — 63342 Powell Butte Hwy Bend, OR 97701 541-383-8825

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YEAR:

RECORDING  
TACH  
TIMETODAY'S  
FLIGHTTOTAL  
TIME IN  
SERVICE**Description of Inspections, Tests, Repairs and Alterations**

Entries must be endorsed with Name, Rating and Certificate Number of Technician or Repair

Page 1 of 2

**CROWNAIR****FAA Approved Repair Station #CWR273K****3753 John J. Montgomery Dr.****San Diego, CA 92123**Lycoming Engine  
N140RM  
10-17-17TIO-540-AFIB  
Mooney M20M  
Hobbs: 1033.7 HrsS/N: L-10413-61A  
S/N: 27-0287  
TSN: 1033.7 Hrs**Maintenance performed:**

- Completed **Annual Inspection** using Crownair Aviation Annual/100 Hour Inspection Checklist, Form CA 105. Researched ADs through bi-weekly issue of this date, all ADs are in compliance at this time.
- Compressions are as follows: #1. 76/80 #2. 78/80 #3. 76/80 #4. 76/80 #5. 78/80 #6. 76/80.
- Complied with **AD 84-26-02** by inspection only of paper induction air filter and no defects found. Due every 100 Hrs or annual inspection. Due again @ 1133.7 Hrs or October 2018. Next replacement due @ 1257.2 Hrs.
- Complied with **AD 2015-19-07** by inspection of fuel injector fuel lines and clamps I/A/W **Lycoming MSB 342G**) and no defects noted at this time. Due again @ 1133.7 Hrs or October 2018.

YEAR:

RECORDING  
TACHTODAY'S  
FLIGHTTOTAL  
TIME IN**Description of Inspections, Tests, Repairs and Alterations**

Entries must be endorsed with Name, Rating and Certificate Number of Technician or Repair

Page 2 of 2

CROWNAIR

FAA Approved Repair Station #CWNR273K

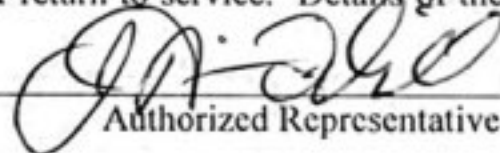
3753 John J. Montgomery Dr.

San Diego, CA 92123

Lycoming Engine  
N140RM  
10-17-17TIO-540-AFIB  
Mooney M20M  
Hobbs: 1033.7 HrsS/N: L-10413-61A  
S/N: 27-0287  
TSN: 1033.7 Hrs

I certify that this engine has been inspected in accordance with an **Annual Inspection** and was determined to be in airworthy condition.

I certify that only the work requested by the owner/operator and listed above was repaired and inspected in accordance with current Federal Aviation Regulations and was found to be airworthy for return to service. Details of the repair are on file at this agency under Work Order No. PA-17-08124.



Authorized Representative

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

Lycoming Engine  
N140RM  
05-17-18

TIO-540-AF1B  
Mooney M20M  
Hobbs: 1047.0 Hrs

S/N: L-10413-61A  
S/N: 27-0287

**Maintenance performed:**

- Changed oil and filter. Serviced with 10 Qts of Aeroshell 15W-50 oil and installed new CH48110-1 oil filter and safety wired as required. Test ran and leak checked OK.
- Cut open old oil filter and checked for contamination, nothing abnormal found at this time.
- Oil sample taken and sent for analysis.

I certify that with respect to the work performed this **engine** was repaired and inspected in accordance with current FAA regulations. Only those items specified in the work order have been inspected and found to be airworthy for return to service. Details of the repair are on file at this agency under Work Order No. PA-18-08292.

  
Authorized Representative

Page 1 of 2

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

Lycoming Engine  
 N140RM  
 11-05-18

TIO-540-AFIB  
 Mooney M20M  
 Hobbs: 1070.0 Hrs

S/N: L-10413-61A  
 S/N: 27-0287  
 TSN: 1070.0 Hrs

**Maintenance performed:**

- Completed **Annual Inspection** using Crownair Aviation Annual/100 Hour Inspection Checklist, Form CA 105.
- Changed oil and filter. Serviced with 10 Qts of Aeroshell 15W-50 oil and installed new CH48110-1 oil filter.
- Cut open old oil filter and inspected with no metal contamination found.
- Took oil sample and sent in for analysis.
- Compressions are as follows: #1. 76/80 #2. 78/80 #3. 76/80 #4. 76/80 #5. 76/80 #6. 76/80.
- Complied with **AD 84-26-02** by inspection only of paper induction air filter and no defects found. Due again @ 1170.0 Hrs or NOV 2019. Next replacement due @ 1257.2 Hrs.
- Complied with **AD 2015-19-07** by visual inspection of fuel injector fuel lines and clamps I/A/W **Lycoming MSB 342G** and no defects noted at this time. Due again @ 1170.0 Hrs or NOV 2019.

YEAR:	RECORDING TACH	TODAY'S FLIGHT	TOTAL TIME IN
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**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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CROWNAIR

FAA Approved Repair Station #CWNR273K

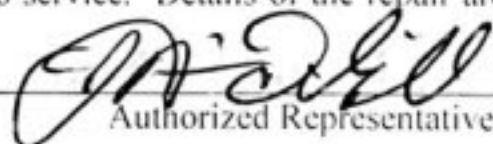
3753 John J. Montgomery Dr.

San Diego, CA 92123

Lycoming Engine  
N140RM  
11-05-18TIO-540-AF1B  
Mooney M20M  
Hobbs: 1070.0 HrsS/N: 1-10413-61A  
S/N: 27-0287  
TSN: 1070.0 Hrs.

I certify that this **engine** has been inspected in accordance with an **Annual Inspection** and was determined to be in airworthy condition.

I certify that only the work requested by the owner/operator and listed above was repaired and inspected in accordance with current Federal Aviation Regulations and was found to be airworthy for return to service. Details of the repair are on file at this agency under Work Order No. PA-18-08400.

  
Authorized Representative

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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### Engine Log



**N140RM**

**Mooney M20M sn: 27-0287**

**Date: 06/28/2019**

**Hobbs: 1085.3**

**WO# CSV-19-0125**

Removed Sky-Tec 149-24LS sn.F4L-231202 starter, installed new 149-24LS sn.HT032229. Operational checked good.

Changed oil and filter. Serviced with 9qts. AS15W50 and CH48110-1 filter. Removed filter internal filter media visually inspected – no metal found. Leak checked good.

**REGARDING THE ABOVE MENTIONED WORK THIS AIRCRAFT IS APPROVED FOR RETURN TO SERVICE**

Signed: *Ronald Wallace* for:

*1AP2518776*

**Leading Edge Aviation, Inc.**

63048 Powell Butte Hwy Bend, OR 97701 541-383-8825




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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**Engine Log**

**N140RM**

**Mooney M20M**

**S/N: 27-0287**

**Hobbs: 1092.8**



**Date: 07/16/2019**

**WO# CSV-19-0178**

Engine driven vac pump drive coupling failure – Removed vac pump P/N 241CC-15 S/N 10AR 30 and replaced with OVH P/N 241CC-15 S/N 184310 in reference to Mooney M20M MM P/N MAN152 Dated Feb 2006, 37-11-03. Ops check good. FAA-P-8740-52 safety warning given to aircraft owner.

**REGARDING THE ABOVE MENTIONED WORK THIS AIRCRAFT IS APPROVED FOR RETURN TO SERVICE**

Signed: \_\_\_\_\_ for:

**Leading Edge Aviation, Inc.**

63048 Powell Butte Hwy Bend, OR 97701 541-383-8825

**YEAR:** \_\_\_\_\_ **RECORDING TACH** \_\_\_\_\_ **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

**DAT** \_\_\_\_\_



GOLD WING AVIATION  
An AIRTRONICS INC. company  
12380 Airport Road, Hangar 6  
Jackson, CA 95642 209-416-0004

REG: N 140RM      WO#: 461  
MAKE: LYCOMING      MODEL: TIO-540-AF1B  
S/N: L-10413-61A  
AFTT: 1116.50      TACH: 1116.50

LOCATION: INSPECTION

**SERVICE DESCRIPTION:**

ENGINE: TT-1116.50

- 1) Removed and replaced oil filter with Champion CH48110-1 torqued to spec and sealed.
- 2) Drained and Serviced Engine oil with 9QTS of Aeroshell 15W50.
- 3) Removed and replaced induction air filter with PN: ED04028
- 4) Cleaned, gapped, inspected and retited top 6 spark plugs, reinstalled/ torqued with new M674 copper washers
- 5) Removed all bottom spark plugs and replaced with new PN: RHB37E and new M674 copper washers.
- 6) Re-timed both LH and RH magnetos. Checked timing @ 20° BTDC found satisfactory.
- 7) Adjusted tension on LH alternator drive belt.
- 8) Performed compression check as follows: 1) 77/80 2) 76/80 3) 75/80 4) 77/80 5) 76/80 6) 75/80 MOI 44/80

The work performed above was done IAW Lycoming TIO-540 MM Maintenance Manual and Mooney M20M MM. Ran engine up, checked for leaks none found.

Complied With (C/W) AD 2015-19-07 Amendment 39-16269 Dated Nov. 3, 2015 IAW paragraph (e)(1)(i) and MSB-342G. No defects found at this time. Next Due Hours: 1613.5  
C/W AD 84-26-02 Amendment 39-4966 Dated Jan. 28, 1985 IAW paragraph (a) Replaced induction filter. Next Due Hours: 1616.5

I certify this engine has been inspected IAW an 100 hour inspection, IAW FAR 43 App. D and was determined to be airworthy at this time. Performed operational run of engine and confirm IAW 43.15(c)(2) and found to be airworthy. Next due 1 January 2021 or AFTT 1216.5

NAME: RANDY ZIEMER

RTS DATE: December, 09 2019

CERT: A&P, 3854191-1A

Repair

YEAR:

DATE



GOLD WING AVIATION  
An AIRTRONICS INC. company  
12380 Airport Road, Hangar 6  
Jackson, CA 95642 209-418-0004

REG: N 140RM

WO#: 719

MAKE: LYCOMING

MODEL: TIO-540-AF1B

S/N: L-10413-61A

AFTT: 1189.00

TACH: 1189.00

LOCATION: INSPECTION

**SERVICE DESCRIPTION:**

ENGINE TT: 1189.00

- 1) Removed and replaced oil filter with Champion CH48110-1, torqued to spec and safetied.
- 2) Drained and Serviced Engine oil with 9QTS of Aeroshell 15W50
- 3) Replaced seal tube at heat-exchanger outlet port.
- 4) Cleaned, gapped, inspected and rotated spark plugs in same cylinder, reinstalled/ torqued with new M674 copper washers
- 5) Re-timed both LH and RH magnetos. Checked timing @ 20" BTDC found satisfactory.
- 6) Replaced both alternator belts PN: 37A19773-470 and 37A19773-380
- 7) Performed compression check as follows: 1) 75/80 2) 77/80 3) 77/80 4) 75/80 5) 70/80 6) 75/80 MO) 44/80
- 8) De-greased engine, upper and lower cowl.
- 9) Removed and Replaced all screws at heat exchanger muff
- 10) Replaced fix upper deck pressure soft lines at injectors.
- 11) Removed primary and standby vacuum pumps. installed Lycoming Accessory cover plate PN: 60430 and Gasket SL 8313 gasket.
- 12) Removed and replaced fix cylinder head drain soft lines to crankcase

The work performed above was done IAW Lycoming TIO-540 MM( Maintenance Manual) and Mooney M20M MM. Ran engine up, checked for leaks none found.

Complied With (C/W) AD 2015-19-07 Amendment 39-18269 Dated Nov, 3, 2015 IAW paragraph (e)(1)(ii) and MSB: 3420. No defects found at this time. Next Due Hobbs: 1289.00  
C/W AD 84-26-02 Amendment 39-4966 Dated Jan, 28, 1985 IAW paragraph (b) inspection of induction filter. Next Due Hobbs: 1289.00

I certify this engine has been inspected IAW 100 hour inspection, IAW FAR 43 App. D and was determined to be airworthy at this time. Performed operational run of engine and controls IAW 43.15(c)(2), and found to be airworthy. Next due 1 March 2021 or AFTT 1189.00

NAME: RANDY ZIEMER

RTS DATE: February 07, 2021

CERT: A&P, 3854194

YEAR:

RECORDING  
TACHTODAY'S  
FLIGHTTOTAL  
TIME IN

Description of Inspections, Tests, Repairs and Alterations

DATE

*Savage Aviation, LLC*

20511 Skywest DR

Date

Engine

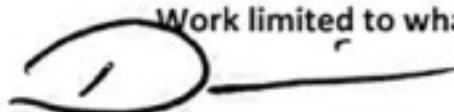
Hayward CA 94541 09/28/2021

**N140RM Make: Lycoming Model: TIO-540AF1B S/N: L-10413-61A Hobbs: 1202.7  
TSMOH: 1202.7 TT: 1202.7**

removed all fuel injectors and replaced with Gami injectors in accordance with STC SE09445SC. See from 337 for details. Replaced 3 exhaust v band clamps installed in accordance with SI1238B. Removed and reinstalled fuel servo after bench test By LyCon Engines. Removed and sent out the following components for overhaul fuel flow divider P/N2524232-2 S/N75279, fuel Pump P/N RG17980U/M S/N C4900.

Work performed in accordance with applicable maintenance manuals. Operations and/or leak check performed for work performed.

Work limited to what is stated above


**Daniel Umanzor AP3776498**

YEAR:	RECORDING TACH	TODAY'S FLIGHT	TOTAL TIME IN	Description of Inspections, Tests, Repairs and Alterations
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***Savage Aviation, LLC***

20511 Skywest DR

Date

Engine

Hayward CA 94541

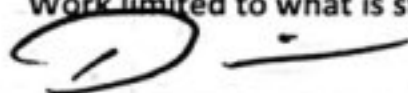
02/24/2022

**N140RM Make: Lycoming Model: TIO-540AF1B S/N: L-10413-61A Hobbs: 1253.4  
TSMOH: 1253.4 TT: 1253.4**

Removed and replaced the following with new 1 intake gasket P/N 71973. Removed both magnetos for 500 hour inspection. Left magneto P/N 6361 S/N 99110238 Removed and replaced contactor points P/N M3081, distributor gear P/N k3056, gear P/N M3828. Right magneto P/N 6360 S/N 99071759 removed and replaced contactor points P/N M3081, distributor block and gear P/N K3823, gear P/N M3828, coil P/N M3975. Both magnetos bench tested and found to operate correctly. Work performed in accordance with slick overhaul manual/ 500H inspection checklist. Magnetos reinstalled on aircraft and magneto to engine timing set. Runup performed no abnormalities noted at this time.

Work performed in accordance with applicable maintenance manuals. Operations and/or leak check performed for work performed.

Work limited to what is stated above



**Daniel Umanzor AP3776498**


YEAR:	RECORDING TACH	TODAY'S FLIGHT	TOTAL TIME IN	Description of Inspections, Tests, Repairs and Alterations
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DA

***Savage Aviation, LLC*** 20511 Skywest DR Date  
Engine Hayward CA 94541 02/24/2022

**N140RM Make: Lycoming Model: TIO-540AF1B S/N: L-10413-61A Hobbs: 1253.4  
TSMOH: 1253.4 TT: 1253.4**

Compression test results #1: 76/80 #2: 75/80 #3: 76/80 #4: 76/80 #5: 74/70 #6: 76/80. Drained engine oil removed and replaced oil filter with new CH48110-1. Old filter cut open and inspected for excessive metal contamination, no excessive metal found. Serviced engine with 10 QT Aeroshell 15-50 oil and 24OZ Avblend. cleaned and tested spark plugs reinstalled using new gaskets. Ignition timing checked and found to be within tolerance. Cleaned fuel injectors, cleaned fuel screen at fuel servo. Engine washed down with solvent. C/W AD2015-19-07 by visual inspection in accordance with MSB 342G no discrepancies noted at this time. Next due Hobbs 1353.4 C/W AD 84-26-02 induction air filter IAW paragraph (a)by filter replacement. Inspection Next due Hobbs 1353.4

I Certify that this Engine has been inspected in accordance with Part 43 Appendix D (Annual/100H) inspection and is in an airworthy condition at this time.

*Evan Sather*

**Evan Sather AP3233776IA**

N 140 RM #1



**MCCAULEY**<sup>TM</sup>

**PROPELLER LOGBOOK**

**- CLOSED -**

Owner Name \_\_\_\_\_

Address \_\_\_\_\_

Propeller Model B3D32C417-D

Blade Model G-82 N2D-7

Hub Serial No. 993540

Blade Serial No. 1 TJ 302

2 TJ 313

3 TJ 315

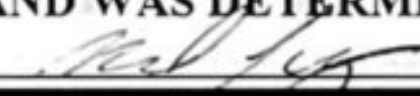
4 \_\_\_\_\_



# INSTALLATION HISTORY

Date	Aircraft Model & Registration Number	Engine Serial Number & Position
JAN 17 2000	THIS PROPELLER WAS MANUFACTURED NEW AT McCAULEY PROPELLER SYSTEMS, INSPECTED AND FOUND TO BE AIRWORTHY ON THIS DATE. -	M 362

# MAINTENANCE & SERVICE HISTORY

Date	Total Propeller Time	Time Since Overhaul	Description of Work	Authorized Signatures Repairman and Station Certificate Numbers
<p><b>ARAPAHOE AERO</b></p> <p>12760 EAST CONTROL TOWER ROAD ENGLEWOD, COLORADO 80112 (303) 799-8386</p> <p><b>N140RM      McCauley      B3D32C417D      S/N: 993540      Total Time: 134.7</b></p> <p><b>5 March 2001      Tach: 134.7      TSN: 134.7      Calendar Time: 1 year 2 months</b></p> <p><b>100 hour inspection for annual completed this date using the Mooney M20M inspection form as a guide. Checked hub and blades. AD's checked through bi-weekly 2001-03. I CERTIFY THAT THIS PROPELLER HAS BEEN INSPECTED IN ACCORDANCE WITH A 100 HOUR INSPECTION AND WAS DETERMINED TO BE IN AN AIRWORTHY CONDITION.</b></p> <p> <b>Michael Nigro A&amp;P 470942287</b>      w/o 17264</p>				

Note: Enter Compliance With All Applicable FAA A.D. & Factory Service Bulletins On Pages 11 & 12

# MAINTENANCE & SERVICE HISTORY

Air 88 Inc. dba CROWNAIR  
FAA Approved Repair Station #CWNR273K  
3753 John J. Montgomery Dr.  
San Diego, CA 92123

MCCAULEY  
N140RM  
4-29-2011

B3D32C417D  
MOONEY M20M  
HOBBS: 757.2

S/N: 993540  
S/N: 27-0287

**Maintenance performed:**

- Completed **Annual Inspection** I/A/W Crownair 100 Hour/Annual Inspection Checklist, Form CA 105.

I certify that this **propeller** has been inspected in accordance with an **Annual Inspection** and was determined to be in airworthy condition.

I certify that only the work requested by the owner/operator and listed above was repaired and inspected in accordance with current Federal Aviation Regulations and was found to be airworthy for return to service. Details of the repair are on file at this agency under Work Order #LT-11-05261

  
Authorized Representative

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# MAINTENANCE & SERVICE HISTORY

Air 88 Inc. dba CROWNAIR  
FAA Approved Repair Station #CWNR273K  
3753 John J. Montgomery Dr.  
San Diego, CA 92123

McCauley Propeller  
N140RM  
5-01-12

B3D32C417D  
Mooney M20M  
Hobbs: 814.1 Hrs

S/N: 993540  
S/N: 27-0287  
TSN: 814.1 Hrs

**Maintenance performed:**

- Completed **Annual Inspection I/A/W** Crownair 100 Hour/Annual Inspection Checklist, Form CA 105.
- Dressed all propeller blades as required.

I certify that this **propeller** has been inspected in accordance with an **Annual Inspection** and was determined to be in airworthy condition.

I certify that only the work requested by the owner/operator and listed above was repaired and inspected in accordance with current Federal Aviation Regulations and was found to be airworthy for return to service. Details of the repair are on file at this agency under Work Order #PA-12-05744.

  
Authorized Representative

# MAINTENANCE & SERVICE HISTORY

Air 88 Inc. dba CROWNAIR  
FAA Approved Repair Station #CWNR273K  
3753 John J. Montgomery Dr.  
San Diego, CA 92123

McCauley Propeller  
N140RM  
6-03-13

B3D32C417D  
Mooney M20M  
Hobbs: 867.2 Hrs

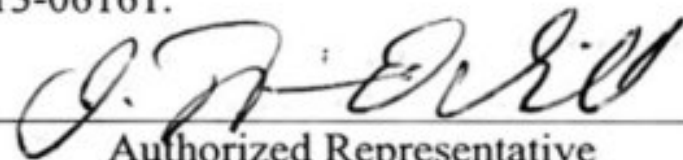
S/N: 993540  
S/N: 27-0287  
TSN: 867.2 Hrs

**Maintenance performed:**

- Completed **Annual Inspection** using Crownair Aviation Annual/100 Hour Inspection Checklist, Form CA 105.
- Dressed and painted propeller as required.

I certify that this **propeller** has been inspected in accordance with an **Annual Inspection** and was determined to be in airworthy condition.

I certify that only the work requested by the owner/operator and listed above was repaired and inspected in accordance with current Federal Aviation Regulations and was found to be airworthy for return to service. Details of the repair are on file at this agency under Work Order No. PA-13-06161.

  
Authorized Representative

# MAINTENANCE & SERVICE HISTORY

Air 88 Inc. dba CROWNAIR  
FAA Approved Repair Station #CWNR273K  
3753 John J. Montgomery Dr.  
San Diego, CA 92123

McCauley Propeller  
N140RM  
6-09-14

B3D32C417D  
Mooney M20M  
Hobbs: 906.1 Hrs

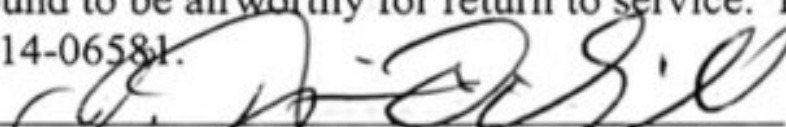
S/N: 993540  
S/N: 27-0287  
TSN: 906.1 Hrs

**Maintenance performed:**

- Completed **Annual Inspection** using Crownair Aviation Annual/100 Hour Inspection Checklist, Form CA 105.

I certify that this **propeller** has been inspected in accordance with an **Annual Inspection** and was determined to be in airworthy condition.

I certify that only the work requested by the owner/operator and listed above was repaired and inspected in accordance with current Federal Aviation Regulations and was found to be airworthy for return to service. Details of the repair are on file at this agency under Work Order No. PA-14-06581.

  
Authorized Representative



# MAINTENANCE & SERVICE HISTORY

Air 88 Inc. dba CROWNAIR  
FAA Approved Repair Station #CWNR273K  
3753 John J. Montgomery Dr.  
San Diego, CA 92123

McCauley Propeller  
N140RM  
6-11-15

B3D32C417D  
Mooney M20M  
Hobbs: 940.5 Hrs

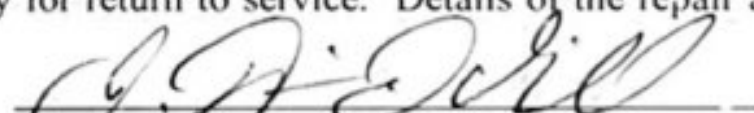
S/N: 993540  
S/N: 27-0287  
TSN: 940.5 Hrs

**Maintenance performed:**

- Completed **Annual Inspection** using Crownair Aviation Annual/100 Hour Inspection Checklist, Form CA 105.

I certify that this **propeller** has been inspected in accordance with an **Annual Inspection** and was determined to be in airworthy condition.

I certify that only the work requested by the owner/operator and listed above was repaired and inspected in accordance with current Federal Aviation Regulations and was found to be airworthy for return to service. Details of the repair are on file at this agency under Work Order No. PA-15-07126.

  
Authorized Representative

Note: Enter Compliance With All Applicable FAA A.D. & Factory Service Bulletins On Pages 11 & 12

# MAINTENANCE & SERVICE HISTORY

Air 88 Inc. dba CROWNAIR  
FAA Approved Repair Station #CWNR273K  
3753 John J. Montgomery Dr.  
San Diego, CA 92123

McCauley Propeller  
N140RM  
6-06-16

B3D32C417D  
Mooney M20M  
Hobbs: 974.9 Hrs

S/N: 993540  
S/N: 27-0287  
TSN: 974.9 Hrs

**Maintenance performed:**

- Completed **Annual Inspection** using Crownair Aviation Annual/100 Hour Inspection Checklist, Form CA 105.
- Dressed and painted propeller as required.

I certify that this **propeller** has been inspected in accordance with an **Annual Inspection** and was determined to be in airworthy condition.

I certify that only the work requested by the owner/operator and listed above was repaired and inspected in accordance with current Federal Aviation Regulations and was found to be airworthy for return to service. Details of the repair are on file at this agency under Work Order No. PA-16-07651.

  
Authorized Representative



# F.A.A. AIRWORTHINESS DIRECTIVE AND SERVICE BULLETIN/ LETTER COMPLIANCE RECORD

## CROWNAIR

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

McCauley Propeller  
N140RM  
10-17-17

B3D32C417D  
Mooney M20M  
Hobbs: 1033.7 Hrs

S/N: 993540  
S/N: 27-0287  
TSN: 1033.7 Hrs

### Maintenance performed:

- Completed **Annual Inspection** using Crownair Aviation Annual/100 Hour Inspection Checklist, Form CA 105. Researched ADs through bi-weekly issue of this date, all ADs are in compliance at this time.

I certify that this **propeller** has been inspected in accordance with an **Annual Inspection** and was determined to be in airworthy condition.

I certify that only the work requested by the owner/operator and listed above was repaired and inspected in accordance with current Federal Aviation Regulations and was found to be airworthy for return to service. Details of the repair are on file at this agency under Work Order No. PA-17-08124.

  
\_\_\_\_\_  
Authorized Representative

# F.A.A. AIRWORTHINESS DIRECTIVE AND SERVICE BULLETIN/ LETTER COMPLIANCE RECORD

## CROWNAIR

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

McCauley Propeller  
N140RM  
11-05-18

B3D32C417D  
Mooney M20M  
Hobbs: 1070.0 Hrs

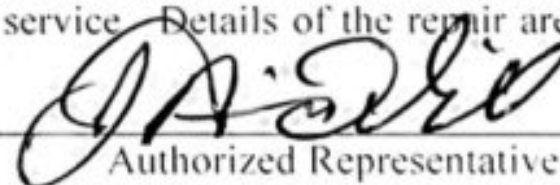
S/N: 993540  
S/N: 27-0287  
TSN: 1070.0 Hrs

### Maintenance performed:

- Completed **Annual Inspection** using Crownair Aviation Annual/100 Hour Inspection Checklist, Form CA 105.
- Dressed and painted propeller as required.

I certify that this **propeller** has been inspected in accordance with an **Annual Inspection** and was determined to be in airworthy condition.

I certify that only the work requested by the owner/operator and listed above was repaired and inspected in accordance with current Federal Aviation Regulations and was found to be airworthy for return to service. Details of the repair are on file at this agency under Work Order No. PA-18-08400.

  
Authorized Representative



GOLD WING AVIATION  
An AIRTRONICS INC. company  
12380 Airport Road, Hangar 6  
Jackson, CA 95642 209-418-0004

REG: N 140RM

WO#: 461

MAKE: McCauley

MODEL: B3D32C417D

S/N: 993540

AFTT: 1116.50

TACH: 1116.50

LOCATION: INSPECTION

SERVICE DESCRIPTION:

PROP TSMOH: 1116.50


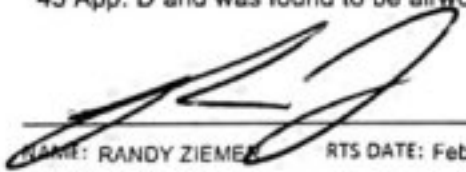
I certify this Propeller has been inspected In Accordance With(IAW) an 100 hr.  
inspection, IAW FAR 43 App. D and was found to be airworthy at this time. Next due  
JANUARY 1 2021 / AFTT 1216.50

  
NAME: RANDY ZIEMER

RTS DATE: December 09, 2019

CERT: A&P 3854194 IA

HUB & BLADE INSPECTIONS, REPAIRS AND ALTERATIONS

<b>Year:</b> _____	<b>Total Time in Service</b>	 <p>GOLD WING AVIATION An AIRTRONICS INC. company 12380 Airport Road, Hangar 6 Jackson, CA 95642 209-418-0004</p>	<b>REG:</b> N 140RM	<b>WO#:</b> 719
<b>Date:</b> _____			<b>MAKE:</b> McCauley	<b>MODEL:</b> B3032C417D
<b>Next Inspection Due:</b> _____	<b>Time Since Overhaul</b>	<b>LOCATION:</b> INSPECTION	<b>S/N:</b> 993540	<b>TACH:</b> 1189.00
		<b>SERVICE DESCRIPTION:</b> PROP TSMOH: 1189.00	<b>AFTT:</b> 1189.00	
<b>Year:</b> _____	<b>Total Time in Service</b>	1) Removed propeller, cleaned hub, installed new o-ring inside propeller hub PN: A1633-11, reinstalled propeller, and safetied. Ran engine up checked for leaks at propeller flange none found.		
<b>Date:</b> _____		No applicable AD's found at this time.		
<b>Next Inspection Due:</b> _____	<b>Time Since Overhaul</b>	I certify this Propeller has been inspected In Accordance With(IAW) an 100 hr. inspection, IAW FAR 43 App. D and was found to be airworthy at this time. Next due March 01 2022 / AFTT 1289.00		
<b>Year:</b> _____	<b>Total Time in Service</b>	 NAME: RANDY ZIEMER      RTS DATE: February 07, 2021 CERT: A&P 3854194		
<b>Date:</b> _____				
<b>Next Inspection Due:</b> _____	<b>Time Since Overhaul</b>			
		<b>Mech. Cert. # or Repair Station #</b> _____		

HUB & BLADE INSPECTIONS, REPAIRS AND ALTERATIONS

Year: _____	Total Time in Service	Description
Date: _____		

Next Due: _____	<b><i>Savage Aviation, LLC</i></b>	20511 Skywest DR	Date
_____	<b>Propeller</b>	Hayward CA 94541	<b>02/24/2022</b>

Year: _____	<b>N140RM Make: McCauley Model: B3D32C417-D S/N: 992540 Hobbs: 1253.4</b>
Date: _____	<b>TSMOH: 1253.4 TT: 1253.4</b>

Next Due: \_\_\_\_\_  
 Inspected spinner and back plate for cracks cleaned and lubed hub exterior with LPS. Dressed leading edges and coated blades with SAE50 oil.

\_\_\_\_\_ I Certify that this Propeller has been inspected in accordance with Part 43 Appendix D (Annual/100H) inspection and is in an airworthy condition at this time.  
 Year: \_\_\_\_\_ *Evan Sather* **Evan Sather AP3233776IA**  
 Date: \_\_\_\_\_

Next Inspection Due: _____	Time Since Overhaul	Mech. Cert. # or Repair Station # _____
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