

Airworthiness Directive Compliance Record


AIRCRAFT RECORDS - DO NOT DESTROY

airframe

Company Cutterbilt Aero Services
Manufacturer MOONEY AIRCRAFT CORPORATION (SEE UNIVAIR)
Model M20K
Tail # N281RM
Serial # 25-0059
Current Time 1932.8
Total Time 4298.1
A/C Cert. Date 14FEB1979

***75-23-04** 12/08/75 **ELECTRIC GEAR SYSTEMS/**
Method of Compliance N/A Affected part not installed
SB # M20-190 **Date** 13JUL2009 / 1427.7 **Next Due**
Signature **Cert. #** AP3717632IA

80-02-12 02/01/80 **FUSELAGE TUBULAR STRUCTURE/**
Method of Compliance PCW as per AD
SB # **Date** 13JUL2009 / 1427.7 **Next Due**
Signature **Cert. #** AP3717632IA

***85-24-03** 01/06/86 **FUEL TANK BAYS AND RIB STATION INSPECTION/**
Method of Compliance CW by Inspection
SB # M20-229 **Date** 21JUN2018/1932.8 **Next Due**
Signature  **Cert. #** AP3717632IA

88-25-11 01/05/89 **BAGGAGE DOOR MECHANISM/**
Method of Compliance PCW as per AD
SB # **Date** 13JUL2009/1427.7 **Next Due**
Signature **Cert. #** AP3717632IA

***95-17-06** 09/25/95 **EXHAUST SYSTEM CRACKS/**
Method of Compliance N/A STC not installed
SB # **Date** 13JUL2009/1427.7 **Next Due**
Signature **Cert. #** AP3717632IA

95-18-12 10/20/95 **FUEL SELECTOR VALVE/**
Method of Compliance N/A Affected part not installed
SB # **Date** 14JUL2009/1427.7 **Next Due**
Signature **Cert. #** AP3717632IA

98-21-26 11/26/98 **MLG LEG BRACKET/**
Method of Compliance N/A by Serial Number
SB # **Date** 13JUL2009/1427.7 **Next Due**
Signature **Cert. #** AP3717632IA

***98-24-11** 12/28/98 **AILERON CONTROL LINKS/**
Method of Compliance PCW
SB # M20-264 **Date** 13JUL1999/940.0 **Next Due**
Signature **Cert. #** AP3717632IA

Prepared by 

Date 21 JUN 2018

Airworthiness Directive Compliance Record

12-05-09 **03/20/12** **EMPENNAGE TRIM FITTING AND MOUNTING HARDWARE/**
Method of Compliance CW by Inspection
SB # M20-313A **Date** 3APR2012 **Next Due**
Signature **Cert. #** AP3717632IA

 **AP3717632IA**

Prepared by _____

Date 21 JUN 2018

Airworthiness Directive Compliance Record

AIRCRAFT RECORDS - DO NOT DESTROY

engine

Company Cutterbilt Aero Services
Manufacturer Continental Motors
Model TSIO-360-LB
Location Front
Serial # 247127-R
TSMOH 590.2
Total Time 2517.1

81-13-10 R1 11/20/81 **OIL PUMP DRIVE GEAR/**
Method of Compliance N/A by model number
SB # **Date** 21JUN2018 / 1932.8 **Next Due**
Signature **Cert. #** AP3717632IA

81-23-02 99/99/81 **OIL FILTER ADAPTER FLANGE/**
Method of Compliance N/A by model number
SB # **Date** 21JUN2018 / 1932.8 **Next Due**
Signature **Cert. #** AP3717632IA

88-03-06 04/15/88 **OIL FILTER/**
Method of Compliance N/A Affected part not installed
SB # M88-4 **Date** 21JUN2018 / 1932.8 **Next Due**
Signature **Cert. #** AP3717632IA

91-19-03 09/29/91 **ENGINE OIL FILTER/**
Method of Compliance N/A Affected part not installed
SB # **Date** 21JUN2018 / 1932.8 **Next Due**
Signature **Cert. #** AP3717632IA

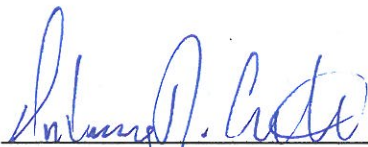
92-04-09 06/22/93 **ROCKER ARM AND CYLINDER ASSEMBLIES/**
Method of Compliance PCW as per AD
SB # M92-4 **Date** 21JUN2018 / 1932.8 **Next Due**
Signature **Cert. #** AP3717632IA

93-10-02 08/12/93 **CYLINDER INSPECTION/**
Method of Compliance PCW as per AD
SB # **Date** 21JUN2018 / 1932.8 **Next Due**
Signature **Cert. #** AP3717632IA

95-08-10 04/06/95 **OIL OUTLET CHECK VALVE/**
Method of Compliance N/A Affected part not installed
SB # **Date** 21JUN2018 / 1932.8 **Next Due**
Signature **Cert. #** AP3717632IA

95-21-15 11/28/95 **ENGINE TEARDOWN AND INSPECTION/**
Method of Compliance N/A by aircraft registration
SB # **Date** 21JUN2018 / 1932.8 **Next Due**
Signature **Cert. #** AP3717632IA

Prepared by



Date

21 Jun 2018

Airworthiness Directive Compliance Record

***97-26-17** **01/23/98** **CRANKSHAFT/**
Method of Compliance PCW as per AD
SB # SB96-10 **Date** 27NOV2007 **Next Due**
Signature **Cert. #** AP3717632IA

98-19-02 **11/09/98** **SUPERIOR AIR PARTS PISTON PINS/**
Method of Compliance N/A Affected part not installed
SB # **Date** 21JUN2018 / 1932.8 **Next Due**
Signature **Cert. #** AP3717632IA

00-23-21 **12/12/00** **CRANKSHAFT CONNECTING ROD JOURNAL/**
Method of Compliance N/A by Serial Number
SB # **Date** 21JUN2018 / 1932.8 **Next Due**
Signature **Cert. #** AP3717632IA

10-11-04 **06/16/10** **HYDRAULIC VALVE LIFTERS/**
Method of Compliance N/A Affected part not installed
SB # **Date** 21JUN2018 / 1932.8 **Next Due**
Signature **Cert. #** AP3717632IA

11-13-03 **07/13/11** **MACHINING DEBRIS IN TURBOCHARGER CAVITIES/**
Method of Compliance N/A Affected part not installed
SB # **Date** 21JUN2018 / 1932.8 **Next Due**
Signature **Cert. #** AP3717632IA

11-26-07 **01/24/12** **MAGNETO IMPULSE COUPLING STOP PIN/**
Method of Compliance N/A by Serial Number
SB # **Date** 21JUN2018 / 1932.8 **Next Due**
Signature **Cert. #** AP3717632IA

13-21-02 **11/13/13** **TURBINE WHEEL HEAD AND SHAFT WELDED JOINT/**
Method of Compliance N/A Affected part not installed
SB # HET ASB 048 **Date** 21JUN2018 / 1932.8 **Next Due**
Signature **Cert. #** AP3717632IA

Prepared by 

Date 21 JUN 2018

Airworthiness Directive Compliance Record

AIRCRAFT RECORDS - DO NOT DESTROY

propeller

Company Cutterbilt Aero Services
Manufacturer McCauley Propeller Systems
Model 2A34C216
Location Front
Tail # N281RM
Serial # 812807
Blade B100384 / B100281
TSMOH 583.5
Total Time 4298.1

82-27-02 R1

02/22/83

PROPELLER BLADE/

Method of Compliance N/A by Serial Number

SB #

Date 13JUL2009/1427.7

Next Due

Signature

Cert. # AP3717632IA

91-15-04

08/07/91

THREADED RETENTION HUBS/

Method of Compliance N/A by model number

SB #

Date 21JUN2018/1932.8

Next Due

Signature

Cert. # AP3717632IA

03-13-17

07/18/03

MAINTENANCE REPAIR BY T AND W PROPELLERS, INC./

Method of Compliance N/A work not accomplished by repair station indicated

SB #

Date 13JUL2009/1427.7

Next Due

Signature

Cert. # AP3717632IA

05-14-11

08/17/05

MAINTENANCE AND REPAIR BY SOUTHERN CALIFORNIA

PROPELLER SERVICE/

Method of Compliance N/A work not accomplished by repair station indicated

SB #

Date 13JUL2009/1427.7

Next Due

Signature

Cert. # AP3717632IA

06-24-07

01/03/07

INSPECTIONS AND REPAIRS BY CSE AVIATION/

Method of Compliance N/A work not accomplished by repair station indicated

SB #

Date 13JUL2009/1427.7

Next Due

Signature

Cert. # AP3717632IA

 AP3717632IA

Prepared by

21 JUN 2018

Date

Equipment List for N281RM

Company
Address
City, State Zip
Phone
Fax

Cutterbilt Aero Services
4625 Highland Springs Rd
Lakeport CA 95453
707-530-2015

Airframe

| | | | |
|----------------------|---|---------------------------|-----------|
| Make | MOONEY AIRCRAFT CORPORATION (SEE UNIVAIR) | Current time | 1932.8 |
| Model | M20K | Total time | 4298.1 |
| Serial number | 25-0059 | Certification date | 14FEB1979 |
| Notes: | Hobbs replaced @2365.3 AFTT 24JAN1992 | | |

Engine 1

| | | | |
|----------------------|---|-------------------|--------|
| Make | Continental Motors | Location | Front |
| Model | TSIO-360-LB | Total time | 2517.1 |
| Serial Number | 247127-R | TSMOH | 590.2 |
| Notes: | Factory Reman engine installed 14JAN1988 @ 1781.0 AFTT | | |
| | Overhauled engine installed 1MAR2008 @ 1342.6 TACH +584.3=1926.9 TTSN | | |
| | Current TACH1932.8 - 1342.6 = 590.2 SMOH | | |

Prop 1

| | | | |
|----------------------|---|-------------------|-------------------|
| Make | McCauley Propeller Systems | Blade | B100384 / B100281 |
| Model | 2A34C216 | Total Time | 4298.1 |
| Serial Number | 812807 | TSMOH | 583.5 |
| Hub Notes | Overhaul 1 3DEC1987 @ 1749.6 TT | | |
| | Overhaul 2 20JUN2008 @ 1349.3 HOBBS, 3714.6 TT | | |

Appliances

| | | | | |
|-----------------|---|---------------|-----------------|-------|
| MAGNETOS | Slick Magneto | 6324 | | |
| | Serial # 06090497 | Part # | Location | Right |
| | Notes: 500 hour inspection 21JUN2018/1932.8 | | | |
| | Slick Magneto | 6324 | | |
| | Serial # 03010182 | Part # | Location | Left |
| | Notes: 500 hour inspection 21JUN2018/1932.8 | | | |

Engine Maintenance Records

Log Number: _____

Aircraft Registration Number: _____

Engine Manufacturer: TCM

Model: TSIO-360-LB

Serial Number: 247127-R

Date Installed on Aircraft: _____

Time Between Overhauls: 1800 hours

Engine Position: _____

The Power of Experience



Penn Yan Aero 2499 Bath Road, Penn Yan, New York 14527 U.S.A.

315-536-2333

Repair Station Approval

FAA: Y2GR396Y

EASA.145.5936

www.PennYanAero.com

OVERHAULED

Description of Work Performed
Certificate Number & Signature of Technician

Balance Forward

This is to certify that the engine described hereafter has been overhauled to manufacturer's new parts tolerances and limits where applicable by Penn Yan Aero. Engine disassembled, cleaned, inspected, repaired, reassembled, and tested in accordance with data approved by and or acceptable to the FAA. All applicable Airworthiness Directives are in compliance. See A.D. list supplied.



Penn Yan Aero

2499 Bath Road, Penn Yan, New York 14527

Telephone: 1-315-536-2333

www.pennvanaero.com

FAA Approved Repair Station: Y2GR396Y

24258-07

Work Order Number

11/27/2007

Dated

TSIO-360-LB

Engine Model

247127-R

Serial Number

Dynamic balanced engine per FAA Approved Process Spec. AMP-4302. Installed new TCM P/N: EQ7096 cylinder kits.

This engine has been remanufactured to Zero Time Tolerances by Penn Yan Aero

Not supplied

Previous Time in Service

[Signature]

Repair Station Y2GR396Y Authorized Signature

Totals - Carry Forward



[illegible]

Balance Forward

The accessories listed are either new or were overhauled (as indicated) and supplied with this engine:

TSIO-360-LB

Engine Model

| | | |
|----------|----------|------------|
| 247127-R | 24258-07 | 11/27/2007 |
|----------|----------|------------|

Serial Number Work Order Number Date

Repair Station Y2GR396Y Authorized Signature



Penn Yan Aero

2499 Bath Road, Penn Yan, New York 14527

Telephone: 1-315-536-2333

www.pennynaero.com

FAA Approved Repair Station: Y2GR396Y

Totals – Carry Forward

| Certificate Number | Description of Work Performed | Signature of Technician | Performing Work |
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Balance Forward

Taylor Aviation, Inc.

N281RM

Reg. #

N281RM

Mooney

Make:

Mooney

93 Hangar Rd., Montaomery NY 12549

Date:

08/14/08

Tach/Hobbs:

1368.3

Total Time:

Engine

Completed service interval inspection. Drained mineral break in oil and serviced engine with Aeroshell 15W50 oil and CH48108-1 filter. Cut filter and inspected internally. Degreased engine cowlings and belly. Inspected and lubricated engine controls. Performed engine compression tests as follows.. 1) 75/80 2) 75/80 3) 75/80 4) 72/80 5) 74/80 6) 73/80. Replaced worn inlet filter air box hardware. Adjusted oil pressure setting to spec. Torqued turbo V-Band clamps and safited. Replaced weeping vacuum pump drive seal. Cleaned and tightened weeping fuel transducer fittings. Installed safety wire on fixed waste gate adjustment screw. -----END-----

X

Philip A. Criscenzo

A&P / IA 14344919

Taylor Aviation, Inc.

N281RM

Reg. #

Moore

M20K

Mark:

Model:

93 Hangar Rd. Montaomery NY 12549

Date:

11/20/00

100

13010

Technical Notes

Engine

Completed service interval inspection. Serviced engine with 8 qrts. Aeroshell 15W50 oil and CH48108-1 filter. Cut filter and inspected internally / OK. Degreased engine cowings and belly. Inspected and lubricated engine controls. Adjusted Idle RPM and Mixture settings. Adjusted stiff propeller control. Replaced #6,#4,#2 cylinder exhaust gaskets. Repositioned #6 cylinder ignition wire. Installed REIFF # TS6 engine preheat system with oil temp thermostat. Performed cockpit function and maintenance operational inspections with no further discrepancies noted at this time. FND-----


Y

Philip A. Criscenzo

A&P / IA 14344919

Totals – Carry Forward

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| Date | Total Time In Service | Total Time Since Overhaul | Tach or Recording Meter Time | Description of Work Performed Certificate Number & Signature of Technician Performing Work |
|------|-----------------------|---------------------------|------------------------------|--|
| | | | | <p><i>Balance Forward</i></p> |
| | | | | <p>Reg. # N281RM Taylor Aviation, Inc. Date: 08/24/09</p> <p>Make: Mooney 93 Hangar Rd., Montgomery NY 12549 Tach/Hobbs: 1427.7</p> <p>Model: M20K Engine TSMOH 85.1</p> <p>Inspected engine in accordance with an Annual Inspection per FAR 43.13 Appendix D and Taylor Aviation Inc. guide. Performed cylinder compression check as follows: 1) 79/80 2) 76/80 3) 77/80 4) 78/80 5) 77/80 6) 79/80 . Serviced engine with Aeroshell 15W50 oil and champion oil filter. Replaced air filter with new #125685-004. Cleaned gapped and rotated all sparkplugs. Cleaned and flow tested all fuel injectors. Repaired air inlet airbox fiberglass and alternate air door assembly and rigged as required. Secured loose flexible baffle seals. Replaced flexible baffle seals around air inlet scoop. Tapped and torqued al turbo V-Band clamps to spec. Replaced T.I.T probe clamp. Stop drilled small cracks in rigid baffles. Replaced worn throttle rod end and rigged control. Replaced worn #1 fuel injector line clamp. Torqued loose rocker cover screws. Sealed holes firewall as required. Installed new p-lead wire shield terminals. Replaced breather tube Adel clamp. Verified compliance with Slick SB2-08A and found does not apply by S/N on LH # 03010182 or RH # 06090497. Slick SB3-08A does not apply on LH magneto by S/N. Slick SB3-08A complied with on RH magneto S/N 06090497 by replacement of carbon brush manufacture date 12/18/08. Verified correct fuel pressure settings. Idle RPM and mixture settings. Verified Airworthiness Directives for compliance through this date using Avantext and Federal Libraries (See Report for Details). Performed maintenance operational inspection this date with no further discrepancies noted at this time. I CERTIFY THIS ENGINE HAS BEEN INSPECTED IN ACCORDANCE WITH AN ANNUAL INSPECTION AND HAS BEEN DETERMINED TO BE IN AN AIRWORTHY CONDITION.</p> <p>  Philip A. Criscenzo A&P / IA 14344919 </p> |
| | | | | <p>N281RM, Mooney M20K</p> <p>Serviced engine w 8 Qts. Exxon Elite</p> <p>20W50. R&R Oil Filter, Champion</p> <p>CH-48108-1. Hobbs-1459.4</p> <p>Date: 1/26/10 By: <i>Philip A. Criscenzo</i> <i>CP 3294728</i></p> |
| | | | | <p>Totals – Carry Forward</p> |

Totals – Carry Forward

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| Certificate Number | Description of Work Performed | Signature of Technician | Performing Work |
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Balance Forward

Taylor Aviation, Inc.

N281RM

05/05/10

Req. #

| | |
|--------|--------|
| Reg. # | NZ81RM |
| Make: | Mooney |

Taylor Aviation, Inc.
93 Hangar Rd., Montgomery NY 12549

Date:

Make:

| | |
|--------|--------|
| Make: | Mooney |
| Model: | M20K |

Tach/Hobbs.

1471.1

Model:

Engine

TSMOH

Inspected **AD 2010-07-08** Kelly Aerospace Energy systems, LLC on rebuilt turbochargers for compliance. Airworthiness Directive **Does Not Apply** by serial number TR0907147 currently installed per Kelly Aerospace Bulletin # 039 A Issue date Feb. 10, 2010. ----- **END**-----

Y

Philip A. Criscenzo

A&P / IA 14344919

Taylor Aviation, Inc.

N281RM

09/01/10

Req. #

Mooney

93 Hangar Rd., Montgomery NY 12549

Date:

Make:

| | |
|--------|--------|
| Make: | Mooney |
| Model: | M20K |

Tach/Hobbs:

1479.0

Model:

Engine

TSMOH

136.4

Inspected engine in accordance with an Annual Inspection per FAR 43.13 Appendix D and Taylor Aviation Inc. guide. Performed cylinder compression check as follows: 1) 75/80 2) 75/80 3) 76/80 4) 74/80 5) 75/80 6) 75/80. Serviced engine with Aeroshell 15W50 oil and champion CH48108-1 oil filter. Cleaned air filter. Cleaned gapped and rotated all sparkplugs. Cleaned and flow tested all fuel injectors. Tapped and torqued all turbo V-Band clamps to spec. adjusted magneto external timing. Fabricated repairs to rigid engine baffle. Cleaned and treated oil fill cap corrosion. Tightened valve covers. Supported loose fuel pump drain line with standoffs. Secured loose ignition harness. Verified correct fuel pressure settings. Idle RPM and mixture settings. Verified Airworthiness Directives for compliance through this date using Avantext and Federal Libraries (See Report for Details). Performed maintenance operational inspection this date with no further discrepancies noted at this time. I CERTIFY THIS ENGINE HAS BEEN INSPECTED IN ACCORDANCE WITH AN ANNUAL INSPECTION AND HAS BEEN DETERMINED TO BE IN AN AIRWORTHY CONDITION. ----END-----

X

Philip A. Criscenzo

A&P / IA 3491550

Totals – Carry Forward

| Certificate Number | Description of Work Performed | Signature of Technician | Performing Work |
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Balance Forward

Taylor Aviation, Inc.

N281RM

Reg. #

Laylor Aviation, Inc.
93 Hangar Rd., Montgomery NY 12549

Mooney

Reg. #

N281KM

Reg. #

Date:

07/22/11

Tach/Hobbs:

1501.2

Total Time:

3866.5

Engine

Performed service interval inspection. Service engine with 8 Qrts. Aeroshell 15W50 oil and CH48108-1 filter. Cleaned lower oil sump screen. Cut oil filter and inspected with no discrepancies noted. Degreased engine cowling and belly. Inspected and lubricated engine controls. Verified turbo exhaust V-Band clamp torque values and safety wired. Adjusted Idle RPM and Mixture settings. Adjusted mixture control travel limits. Performed maintenance operational inspection with no discrepancies noted at this time. -----END-----

Philip A. Criscenzo

A&P / IA 3491550

X

Taylor Aviation, Inc.

N281RM

Reg. #

93 Hangar Rd., Montgomery NY 12549

Mooney

Make:

Moone,

Make:

Date:

08/04/11

Tach/Hobbs:

1501.5

T.S.M.Q.

Engine Log

Replaced leaking alternator drive seal P/N 352068. Replaced alternator drive coupler bushings P/N 632050. Complied with TCM SB95-3B on alternator drive coupler inspection next due in 500 hrs. time in service. Complied with TCM SIL93-15 on correct installation of cotter pin. Performed post maintenance operational checks with no further discrepancies noted at this time. -----END-----

Philip A. Criscenzo

A&P / IA3481550

X

Totals – Carry Forward

[illegible]

Totals – Carry Forward





Waterbury Oxford Airport KOXC
203-267-6017

288 Christian Street
Oxford, CT 06478

N281RM

25-0059

April 8, 2014

Tach: 4013.9

SMOH: 306.0

PSOH: 251.3

Inspect engine in accordance with Annual inspection checklist outlined in Mooney M20K Maintenance Manual section 5-20 and FAR 43 Appendix D. Cold Compressions 74/80 74/80 72/80 68/80 70/80 Split turbo for inspection, replace turbo gasket with PN 643932. Drain oil, replace oil filter with AA48-108, fill oil with Aeroshell 15W50. Replace oil drain with new PN 06-00637 quickdrain. Replace alternator with overhauled unit PN ALX-9525B SN H-N090791 overhauled under WO M230000. Replace alternator coupler bushings with new PN 632050. Split turbo for inspection, replace turbo gasket with PN 643932. Replace air filter with new MO-2. Set fuel pressures in accordance with SID97-3E. All AD's complied with at this time. Run up and leak check performed, all operational checks satisfactory. This engine has been inspected in accordance with an Annual Inspection and has been found to be in airworthy condition.

Christopher S Carman AP28582361A

Christopher S Carman

Taylor Aviation, Inc.

Reg. # N281RM Date: 08/12/14
Make: Mooney Tach/Hobbs: 1694.7
Model: M20K Total Time: 4060.0

Engine Log

Performed service interval inspection. Service engine with 8 Qts. Aeroshell 15W50 oil and CH48108-1 filter. Cleaned lower oil sump screen. Cut oil filter and inspected with no discrepancies noted. Degreased engine cowlings and belly. Inspected and lubricated engine controls. Verified turbo exhaust V-Band clamp torque values and safety wired. Adjusted Idle RPM and Mixture settings. Performed post maintenance operational function checks with no discrepancies noted at this time.

-----END-----

Philip A. Criscenzo A&P / IA 3491550



Waterbury Oxford Airport KOXC
203-267-6017

288 Christian Street
Oxford, CT 06478

N281RM

25-0059

April 12, 2015

Hobbs: 1730.6

TTAF: 4095.9

SMOH: 388.0

PSOH: 333.3

Inspect engine in accordance with Annual inspection checklist outlined in Mooney M20K Maintenance Manual section 5-20 and FAR 43 Appendix D. Cold Compressions 73/80 71/80 72/80 72/80 74/80 74/80 72/80. Drain oil, replace oil filter with AA48-108, fill oil with 8 quarts Aeroshell 15W50. Replace front alternator oil seal with new PN 451533 and gasket SA352066. All AD's complied with at this time. Run up and leak check performed, all operational checks satisfactory. This engine has been inspected in accordance with an Annual Inspection and has been found to be in airworthy condition.

Christopher S Carman AP28582361A

Christopher S Carman

ENGINE LOG ENTRY

Date: 15 September 2015 Reg#: N281RM Make: Mooney
 Model: M20K S/N 25-0059 Hobbs: 1784.4 TTAf: 4149.7
 SMOH: 441.8 PSOH: 387.1
 Performed 50 hour oil change. Drained oil. Cut oil filter and inspected with no discrepancies noted.
 Serviced engine with 8 quarts Aeroshell 15W50 and new CH48108-1 oil filter. Torqued drain plug and oil filter to 16 ft/pounds and safety wired. Run up and leak checks performed with no defects noted.

Theodore R Lemieux

Theodore R Lemieux Pilot Cert # 76408622



Waterbury Oxford Airport KOXC
 203-267-6017

288 Christian Street
 Oxford, CT 06478

N281RM
 TTAf: 4160.3

25-0059

June 6, 2016

SMOH: 452.4

Hobbs: 1795.0

PSOH: 397.7


Inspect engine in accordance with Annual inspection checklist outlined in Mooney M20K Maintenance Manual section 5 and FAR 43 Appendix D. Cold Compressions 72/80 72/80 72/80 72/80 72/80 69/80 72/80. Drain oil, replace oil filter with AA48-108, fill oil with 8 quarts Phillips 20W50XC. All AD's complied with at this time. Run up and leak check performed, all operational checks satisfactory. This engine has been inspected in accordance with an Annual Inspection and has been found to be in airworthy condition.

Christopher S Carman AP28582361A

Christopher S Carman

Totals -- Carry Forward



| Date | Total Time In Service | Total Time Since Overhaul | Tach or Recording Meter Time | Description of Work Performed Certificate Number & Signature of Technician Performing Work | Page: 14 |
|------|-----------------------|---------------------------|------------------------------|--|---|
| | | | | <p align="center">ENGINE LOG BOOK ENTRY</p> <p>Reliant Aircraft Service/Danbury, CT 06810 N281RM Mooney M20K S/N 25-0059 10-26-17 Hobbs Time: 1879.4</p> <p>Performed hot compression test with following results: #1 cyl-77/80, #2 cyl-76/80, #3 cyl-74/80, #4 cyl-75/80, #5 cyl-70/80, #6 cyl-75/80.</p> <p align="right">B. Gall Brian Gall 3027149 A&P</p> | |
| | | | | <p align="center">ENGINE LOG ENTRY</p> <p>Date: <u>11/14/2017</u> Reg#: N281RM Make: Mooney Model: M20K S/N 25-0059 Hobbs: <u>1908.4</u> TTA#: _____ SMOH: _____ PSOH: _____</p> <p>Performed 50 hour oil change. Drained oil. Cut oil filter and inspected with no discrepancies noted. Serviced engine with 8 quarts Aerofuel <u>Amsoil</u> 15W50 and new CH48108-1 oil filter. Torqued drain plug and oil filter to 16 ft/pounds and safety wired. Run up and leak checks performed with no defects noted.</p> | |
| | | | | <p>MACY MAINTENANCE MOONEY M20K N281RM PARADISE, CA S/N 25-0059 HOBBS 1908.4 NOVEMBER 29-2017</p> <p>INSTALLED GAMI INJECTORS STC # SE09401SC FOLLOWING GAMI INJECTORS INSTALLATION INSTRUCTIONS. PERFORMED GROUND RUNS AND OPERATIONAL CHECKS ALL SATISFACTORY. NO WEIGHT AND BALANCE CHANGE. FOR FURTHER INFORMATION SEE FAA FORM 337 THIS DATE FOR DETAILS. -----END-----</p> <p>KEVIN MACY A&P3690554 <i>Kevin Macy</i></p> | |
| | | | | <p align="center">Top Gun Aviation, Inc.</p> <p> 8100 S. Lindbergh St Stockton, CA 95206 USA Phone: 209-963-8062</p> <p>ENGINE MODEL: _____ ENGINE S/N: _____ REG. NO. 261PM WORK ORDER: 6847-11-2017</p> <p align="center">Engine Entries</p> <p>(2) Completed engine fuel flow set up IAW Mooney maintenance manual.</p> <p>I certify that this ENGINE is airworthy with respect to the work performed</p> <p>DATE: 1/4/2018 SIGNED: <i>[Signature]</i> Mark T. Rouch, License: 566531421 IA</p> <p align="right">Work Order: 6847-11-2017 Printed by EBis 3 (datamedia.com)</p> | <p>DATE: 1/4/2018 P/C TSN ENG IT TACH: 1916.1</p> |

Totals – Carry Forward

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WORK ORDER FORM 100



PENN YAN AERO

2499 Bath Road
Penn Yan, New York 14527

FAA ID NO. Y2GR396Y

WORK ORDER #24258-07

Dept #ENG Page NO. 1

Location ENG

Warranty Code 00 / 0

Goodthru AD# 07-23

Customer AIR101 / AIRMODS & REPAIR

Cust RO#

Step ADJUSTED PRICE. AWAIT

Work Req CUSTOM

P/N TSIO-360-LB / TSIO-360-LB

S/N 247127-R

Mfg TEL01

Reason/Rm MOHC

Manual#

Rev. / /

Rev#

ATA NO.:

Date Reqr'd 11/05/2007

Date Estmtd / /

PRELIMINARY INSPECTION:

DATE: 09/21/2007

INSPECTOR: T.HANSEN

No shipping damage.

PRE TEST (Yes/No) N

DATE: / /

INSPECTOR:

Not required.

HIDDEN DAMAGE:

No hidden damage.

TEARDOWN FINDINGS:

Normal runout engine core. No abnormal wear or damage noted.

TECHNICIAN: R.CHRISTENSEN

DATE: 10/02/2007

INSPECTOR: T.HANSEN

FINAL INSPECTION BEFORE ASSEMBLY:

DATE: 10/11/2007

INSPECTOR: T.HANSEN

CORRECTIVE ACTION:

This engine has been overhauled to manufacturer's new part limits and tolerances where applicable. It has been disassembled, cleaned, inspected, repaired, and reassembled in accordance with data approved by or acceptable to the FAA. This engine has been dynamic balanced in accordance with FAA Approved Process Specification AMP-4302. Test cell run was satisfactory for return to service.

TECHNICIAN: R.KIRCHER

DATE: 11/20/2007

INSPECTOR: T.HANSEN

MODIFICATION/SERVICE BULLETINES:

Applicable AD's have been complied with, see separate AD sheet supplied.

Test Data Used: Data approved or acceptable to the FAA.

Test Technician: C.HUNT

DATE: 11/21/2007

Inspector: T.HANSEN

DATE: 11/21/2007

Final Inspection: T.HANSEN

DATE: 11/27/2007

Technician:

DATE: / /

Inspector:

DATE: / /



WORK ORDER FORM 100



PENN YAN AERO
2499 Bath Road
Penn Yan, New York 14527

FAA ID NO. Y2GR396Y

WORK ORDER #24258-07

Dept #ENG Page NO. 2

Customer AIR101 / AIRMODS & REPAIR

Location ENG

Cust RO#

Step ADJUSTED PRICE. AWAIT

Warranty Code 00 / 0

Work Req CUSTOM

Goodthru AD# 07-23

P/N TSIO-360-LB / TSIO-360-LB

S/N 247127-R

Mfg TEL01

ADDITIONAL COMMENTS:

(1)

(2)

PARTS DETAIL:

| Line# | PART NUMBER | DESCRIPTION | CD | Qty | Serial Number |
|-------|------------------|--------------------------|----|-------|---------------|
| 1 | 124J001-6CR-0136 | HOSE | NE | 1.00 | |
| 2 | 22022 | NUT | NE | 12.00 | |
| 3 | 24609 | CLAMP | NE | 2.00 | |
| 4 | 36025 | WASHER | NE | 4.00 | |
| 5 | 401801 | STUD | NE | 1.00 | |
| 6 | 532377 | SPRING (6) | NE | 6.00 | |
| 7 | 537466 | BOLT | NE | 1.00 | |
| 8 | 537466-4 | BOLT | NE | 1.00 | |
| 9 | 537466-5 | BOLT | NE | 1.00 | |
| 10 | 538684 | BUSHING | NE | 6.00 | |
| 11 | 627458 | SPRING | NE | 1.00 | |
| 12 | 628555-2 | HOSE | NE | 1.00 | |
| 13 | 628555-25 | HOSE | NS | 2.00 | |
| 14 | 628555-26 | HOSE | NE | 1.00 | |
| 15 | 628556 | WASHER | NE | 6.00 | |
| 16 | 629004 | RING | NE | 8.00 | |
| 17 | 630535 | WASHER | NS | 4.00 | |
| 18 | 630693-10.60 | BOLT | NE | 1.00 | |
| 19 | 631310 | ELBOW | NE | 1.00 | |
| 20 | 631687 | PLUNGER | NE | 1.00 | |
| 21 | 631823-5.19 | BOLT | NE | 1.00 | |
| 22 | 631972 | CLAMP | NE | 6.00 | |
| 23 | 632072 | CLAMP | NE | 1.00 | |
| 24 | 632758 | FITTING | NE | 1.00 | |
| 25 | 633485 | TUBE ASM | NE | 1.00 | |
| 26 | 633609-18 | BEARING | NE | 2.00 | |
| 27 | 633958-2 | SEAL-COMP .15IDX.21THK * | NE | 6.00 | |
| 28 | 636931 | NUT | NE | 2.00 | |
| 29 | 639580 | BUSHING | NE | 4.00 | |
| 30 | 641060R-O | CAMSHAFT, OUTRIGHT | OH | 1.00 | |
| 31 | 641068 | VALVE ASM-CHECK | NE | 1.00 | |
| 32 | 641533 | SEAL | NE | 1.00 | |
| 33 | 642211 | CHECK VALVE | NE | 1.00 | |



WORK ORDER FORM 100



PENN YAN AERO
2499 Bath Road
Penn Yan, New York 14527

FAA ID NO. Y2GR396Y

WORK ORDER #24258-07

5/536-2333

Dept #ENG Page NO. 3

Customer AIR101 / AIRMODS & REPAIR

Location ENG

Cust RO#

Step ADJUSTED PRICE. AWAIT

Warranty Code 00 / 0

Work Req CUSTOM

Goodthru AD# 07-23

P/N TSIO-360-LB / TSIO-360-LB

S/N 247127-R

Mfg TEL01

| | | | | | |
|----|----------------|-------------------------------|------|-------|-------------|
| 34 | 642892 | GASKET | NE | 1.00 | |
| 35 | 642917-2 | HOSE * (24) | NE | 6.00 | |
| 36 | 643626-110 | PIN | NE | 2.00 | |
| 37 | 643626-111 | PIN | NE | 2.00 | |
| 38 | 643651-1 | STUD | NE | 36.00 | |
| 39 | 646243 | TUBE | NE | 1.00 | |
| 40 | 646244 | TUBE | NE | 1.00 | |
| 41 | 646245 | TUBE | NE | 1.00 | |
| 42 | 646396R | OVERHAULED TURBO (CORE\$ 5 OH | 1.00 | | TR0907147 |
| 43 | 646644S6S18.00 | HOSE | NE | 1.00 | |
| 44 | 646644S6S19.50 | HOSE | NE | 1.00 | |
| 45 | 646644S6S7.75 | HOSE | NE | 1.00 | |
| 46 | 646880NC | OIL COOLER (NU-CORE | OH | 1.00 | GO6-48342-7 |
| 47 | 649051A5R | FUEL INJ ASM | OH | 1.00 | J288721BR |
| 48 | 649988 | GASKET | NE | 1.00 | |
| 49 | 652137 | GASKET * | NE | 1.00 | |
| 50 | 652420-10.48 | BOLT | NE | 5.00 | |
| 51 | 652420-5.56 | BOLT-THRU-SHOU | NE | 2.00 | |
| 52 | 652420-9.02 | BOLT | NE | 2.00 | |
| 53 | 652420-9.96 | THRU BOLT | NE | 1.00 | |
| 54 | 653143 | PLATE * | NE | 8.00 | |
| 55 | 653332 | COUPLING-AKA 633358 | NE | 2.00 | |
| 56 | 653386 | FILTER | NE | 1.00 | |
| 57 | 653906 | HYD LIFTER * (12) | NE | 12.00 | |
| 58 | 654487 | NUT (12) | NE | 12.00 | |
| 59 | 654732 | GASKET | NE | 1.00 | |
| 60 | 655959 | BOLT | NE | 12.00 | |
| 61 | AN315-6R | NUT | NE | 1.00 | |
| 62 | C12ST3 | LIGHT WT. STARTER 12VOLT | NE | 1.00 | 2C3-440715 |
| 63 | CCT360TSIO-ECI | CRANKCASE ECI | OH | 1.00 | 9C760 |
| 64 | ES48108 | OIL FILTER | NE | 2.00 | |
| 65 | MISC | 633871 TUBE ASSY GOOD USE | AR | 1.00 | |
| 66 | MS21919WDF16 | CLAMP | NE | 1.00 | |
| 67 | MS35756-8 | KEY | NE | 1.00 | |
| 68 | SA530917 | SEAL | NE | 1.00 | |
| 69 | SA531001 | NUT, 7/16 IN. (SEE NOTE | NE | 20.00 | |
| 70 | SA531003 | NUT,*3/8 IN. | NE | 40.00 | |
| 71 | SA539058 | (12) WASHER * | NE | 6.00 | |
| 72 | SA627693 | [6]BUSHING * | NE | 24.00 | |



WORK ORDER FORM 100



PENN YAN AERO

2499 Bath Road
Penn Yan, New York 14527

FAA ID NO. Y2GR396Y

WORK ORDER #24258-07

Dept #ENG Page NO. 4

Location ENG

Customer AIR101 / AIRMODS & REPAIR

Cust RO#

Step ADJUSTED PRICE. AWAIT

Warranty Code 00 / 0

Work Req CUSTOM

Goodthru AD# 07-23

P/N TSIO-360-LB / TSIO-360-LB

S/N 247127-R

Mfg TEL01

| | | | | | |
|-----|---------------|--------------------------|----|-------|----------|
| 73 | SA630692 | SCREW * | NE | 4.00 | |
| 74 | SA630742 | SCREW * | NE | 4.00 | |
| 75 | SA630979-9 | O-RING * (8) | NE | 12.00 | |
| 76 | SA631928 | HOSE * (4) | NE | 1.00 | |
| 77 | SA633958-3 | SEAL | NE | 6.00 | |
| 78 | SA633958-5 | SEAL | NE | 4.00 | |
| 79 | SA638172 | BUSHING | NE | 4.00 | |
| 80 | SA639198 | BUSHING | NE | 8.00 | |
| 81 | SA639207 | GASKET * | NE | 1.00 | |
| 82 | SA639660-14KS | (4) HOSE * | NE | 2.00 | |
| 83 | SA639660-14KS | (4) HOSE * | NE | 3.00 | |
| 84 | SA640612 | WASHER/TCM50 | NE | 6.00 | |
| 85 | SA642917-1 | HOSE * (4) | NE | 1.00 | |
| 86 | SA646543-A1 | GASKET SET * C-NOTE) | NE | 1.00 | |
| 87 | 24609 | CLAMP | NE | 2.00 | |
| 88 | 627458 | SPRING (2) | NE | 1.00 | |
| 89 | 629588 | GEAR | NE | 1.00 | |
| 90 | 629935 | PLUG | NE | 1.00 | |
| 91 | 630393 | ROD-PUSH | NE | 1.00 | |
| 92 | 630689 | BRACKET | NS | 1.00 | |
| 93 | 630979-21 | O RING * | NE | 2.00 | |
| 94 | 631275-2 | BRACKET | NS | 1.00 | |
| 95 | 631687 | PLUNGER | NE | 1.00 | |
| 96 | 632062-25A1 | ROD-OIL GAUGE | NE | 1.00 | |
| 97 | 6324 | MAGNETO (CORE \$150) | NE | 1.00 | 06090497 |
| 98 | 6324R | MAGNETO | OH | 1.00 | 03010182 |
| 99 | 633872 | TUBE ASM MAN TO THR BODY | NE | 1.00 | |
| 100 | 639199 | COUNTERWEIGHT | NE | 2.00 | |
| 101 | 640620-15 | CAP-OIL | NE | 1.00 | |
| 102 | 641067 | BRACKET | NE | 1.00 | |
| 103 | 641343 | BAFFLE | NS | 1.00 | |
| 104 | 641346 | FASTENER | NE | 4.00 | |
| 105 | 641347 | SPRING | NE | 4.00 | |
| 106 | 642580 | TUBE | NE | 2.00 | |
| 107 | 643776 | CLAMP | NE | 1.00 | |
| 108 | 643979 | TUBE | NE | 1.00 | |
| 109 | 646220A45R | STARTER ADAPTER | RB | 1.00 | 10017829 |
| 110 | 646243 | TUBE | NS | 1.00 | |
| 111 | 653332 | SSD 653332 CLAMP | NE | 2.00 | |



WORK ORDER FORM 100



PENN YAN AERO
2499 Bath Road
Penn Yan, New York 14527

FAA ID NO. Y2GR396Y

WORK ORDER #24258-07

Dept #ENG Page NO. 5

Location ENG

Customer AIR101 / AIRMODS & REPAIR

Cust RO#

Step ADJUSTED PRICE. AWAIT

Warranty Code 00 / 0

Work Req CUSTOM

Goodthru AD# 07-23

P/N TSIO-360-LB / TSIO-360-LB

S/N 247127-R

Mfg TEL01

| | | | |
|-------------------|------------------------|----|-------|
| 112 653489 | STUD | NE | 1.00 |
| 113 653658 | SCREEN | NE | 1.00 |
| 114 653814 | GEAR 6T-OIL PUMP | NE | 1.00 |
| 115 654720 | GEAR,SSD 654720 | NE | 1.00 |
| 116 654933 | BAFFLE | NE | 2.00 |
| 117 655742 | CONNECTOR | NE | 6.00 |
| 118 M2778 | HARNES (COMPLETE) * | NE | 1.00 |
| 119 MS20074-04-10 | BOLT, TURBO | NS | 2.00 |
| 120 MS21919WDF16 | CLAMP | NS | 3.00 |
| 121 MS24665-151 | PIN | NE | 1.00 |
| 122 MS29561-012 | O RING * | NE | 4.00 |
| 123 SA539058 | (12) WASHER * | NE | 6.00 |
| 124 SA632050 | BUSHING,RUBBER * | NE | 2.00 |
| 125 SA642338 | BEARING * | NE | 12.00 |
| 126 SA646597-A1 | BEARING SET * | NE | 1.00 |
| 127 SA646605 | NUT * (24) | NE | 2.00 |
| 128 URHM38E | UNISON SPARK PLUG (12) | NE | 12.00 |
| 129 EQ7096 | TOP O/H-KIT | NE | 1.00 |

MAINTENANCE RELEASE RECORD

THE COMPONENT IDENTIFIED ABOVE WAS OVERHAULED AND INSPECTED IN ACCORDANCE WITH THE CURRENT REGULATIONS OF THE FEDERAL AVIATION ADMINISTRATION, AND IS APPROVED FOR RETURN TO SERVICE. OTHER PERTINENT DETAILS OF THE REPAIR ARE ON FILE AT THIS REPAIR STATION.

Approved return to Service By TIMOTHY HANSEN *Timothy Hansen* Date Nov 27,2007

WOPSTM





PENN YAN AERO
2499 Bath Road
Penn Yan, New York 14527

Telephone: 315/536-2333
FAA Repair Station Y2GR396Y

Invoice **25192**
Work Order # **24258-07**
Customer No. **AIR101**

Bill To:

AIRMODS & REPAIR
106 B SHARON RD
HANGAR #2
ROBBINSVILLE NJ 08691

Ship To:

AIRMODS & REPAIR
106 B SHARON RD
HANGAR #2
ROBBINSVILLE NJ 08691

| | | | |
|-------------------------|-------------------------|---------------------------|------------------|
| Date 11/27/2007 | Ship Via TRUCK PPD | F.O.B. O | Terms PREPAID |
| Customer PO No. 2223 | Order Date 9/21/2007 | Salesperson JEFF TYLER | Contact DAVE |

| Quantity | Part Number | Description | List Price | Ext.Net Price |
|----------|-------------|-----------------------|-------------|---------------|
| 1 | TSIO-360-LB | CUSTOM MAJOR OVERHAUL | \$33,300.00 | \$33,300.00 |

WITH NEW CYLINDER UPGRADE

Serial Number **247127-R**
Propeller S/N

Comment

Adjustments - See Comments

| | | |
|---------------------------|------------------|-------------|
| | Freight | \$0.00 |
| | Non Tax Subtotal | \$33,300.00 |
| | Taxable Subtotal | \$0.00 |
| | Tax | \$0.00 |
| Date | Total | \$33,300.00 |
| Sch.Dep./Payment Received | Balance Due | \$33,300.00 |
| | US FUNDS | |

Wednesday, November 28, 2007

PENN YAN AERO

CONTINENTAL ENGINE SHIPPING LIST - CUSTOM MAJOR OVERHAUL

W/O # 24258-07
AIRMODS & REPAIR

MODEL # TSIO-360-LB
DATE 11/26/2007

S/N 247127-R
CHECK OUT BY MIKE SMITH

| | Y | N | NOTES |
|----------------------------|---|---|--------------------|
| BAFFLES VENTRAL | X | | 6 |
| BAFFLES FRONT | | X | |
| BAFFLES REAR | | X | |
| BAFFLES SIDE | | X | |
| BREATHING FITTING | X | | INTEGRAL |
| CARBURETOR | | X | |
| THROTTLE BODY | X | | 1-TEE, 1-90 |
| THROTTLE ARM | X | | IN BOX |
| MIXTURE ARM | X | | ON FUEL PUMP |
| FUEL PUMP | X | | 2-90, 4-45 |
| FUEL INLET FITTING | X | | AS NOTED ABOVE |
| CHT FITTING | | X | |
| CHT TYPE & LOCATION | | X | |
| DIPSTICK | X | | |
| DIPSTICK TUBE | X | | |
| EXHAUST STACKS | | X | |
| FILTER CONDENSERS | X | | |
| FLOW DIVIDER | X | | 1-90, 2-45 |
| FUEL INJ. NOZZLES & LINES | X | | 6-NOZZLES, 6-LINES |
| ALTERNATOR | X | | PRESTOLITE |
| ALTERNATOR BRACKET | | X | |
| ALTERNATOR CONTROL ARM | | X | |
| HARNESS | X | | 2-NEW SLICK |
| INTER CYL. BAFFLES | X | | 4 |
| LIFTING EYES | X | | 1 |
| MAGNETOS | X | | 2-SLICK |
| LOG BOOKS | X | | PENN YAN YELLOW |
| MANIFOLD PRESSURE FITTINGS | X | | 1-45 |
| MOUNT LEGS | X | | 4 |
| NOSE SEAL RETAINING KIT | X | | W/ HARDWARE |
| OIL COOLER | X | | POSITECH |
| OIL COOLER FITTINGS | | X | |
| OIL FILTER | X | | ES48108 |
| OIL FILTER ADAPTER | X | | |
| OIL SUMP | X | | |
| OIL TEMP FITTING | | X | |
| OIL PRESSURE FITTING | X | | 1-90 |
| PRIMER JETS & LINES | X | | 2-JETS, 3-LINES |
| PROP GOV PAD STUD LENGTH | X | | 4 @ 1 3/8" |
| QUICK DRAIN | X | | IN BOX |
| SPARK PLUGS | X | | 12 URHM38E |
| STARTER | X | | SKY-TEC |
| STARTER DRIVE ADAPTER | X | | |
| SUMP PLUG | X | | |
| TACH DRIVE | X | | |
| VACUUM PUMP DRIVE | X | | |
| INTAKE PIPES | X | | |
| HEAT SHIELD | | X | |
| FILL TUBE & CAP | X | | |

ACCESSORIES

| | | |
|----------------------|-----|--------------|
| LEFT MAGNETO | P/N | 6324 |
| | S/N | 03010182 |
| RIGHT MAGNETO | P/N | 6324 |
| | S/N | 06090497 |
| STARTER | P/N | C12ST3 |
| | S/N | 2C3-440715 |
| ALTERNATOR | P/N | ALX9425B |
| | S/N | 930300012 |
| FUEL SYSTEM | P/N | 640563-8 |
| | S/N | J298702AR |
| FUEL PUMP | P/N | 646758-6 |
| | S/N | J288721BR |
| PROP GOV. | P/N | NOT SUPPLIED |
| | S/N | NOT SUPPLIED |

NOTES

| |
|---|
| CRANKSHAFT - 872005, WITH OIL TRANSFER TUBE. |
| CASE - MATCH # 9C760 |
| OIL COOLER - POSITECH, 646880, G06-48342-7 |
| TURBO - CF600573-9000, TR0907147 |
| 2-FUEL DRAIN BACK MANIFOLDS |
| BOXED - TURBO, TURBO BRACKET, TURBO FITTINGS, ALTERNATOR, MAG HARNESS CLAMP & TIE KIT, EXHAUST GASKETS & NUTS, MISC. ENGINE GASKETS & O RINGS, MISC. ENGINE FITTINGS & BRACKETS, MISC. ENGINE CLAMPS & FLEX LINES, MISC. ENGINE HARDWARE & HOSES, THROTTLE CONTROL ARM, HEAT PADS, QUICK DRAIN, BREATHING TUBE, |
| * PLEASE NOTE PICTURES* |

The accessories listed are either new or were overhauled (as indicated) and supplied with this engine:

TSIO-360-LB ✓

Engine Model

247127-R ✓

24258-07 ✓

11/27/2007 ✓

Serial Number

Work Order Number

Date

Repair Station Y2GR396Y Authorized Signature



Penn Yan Aero

2499 Bath Road, Penn Yan, New York 14527

Telephone: 1-315-536-2333

www.pennyanero.com

FAA Approved Repair Station: Y2GR396Y

6324 (New) ✓

06090497 ✓

Right Magneto - Part Number

Serial Number

6324 ✓

03010182 ✓

Left Magneto - Part Number

Serial Number

640563-8 ✓

J289702AR ✓

Injector/Carburetor - Part Number

Serial Number

646758-6 ✓

J288721BR ✓

Fuel Pump - Part Number

Serial Number

C12ST3 (New) ✓

2C3-440715 ✓

Starter - Part Number

Serial Number

646396

TR0907147 ✓

Turbocharger - Part Number

Serial Number

N/A

N/A

Controller - Part Number

Serial Number

N/A

N/A

Controller - Part Number

Serial Number

N/A

N/A

Waste Gate - Part Number

Serial Number

This is to certify that the engine described hereafter has been overhauled to manufacturer's new parts tolerances and limits where applicable by Penn Yan Aero. Engine disassembled, cleaned, inspected, repaired, reassembled, and tested in accordance with data approved by and or acceptable to the FAA. All applicable Airworthiness Directives are in compliance. See A.D. list supplied.



Penn Yan Aero

2499 Bath Road, Penn Yan, New York 14527

Telephone: 1-315-536-2333

www.pennyanero.com

FAA Approved Repair Station: Y2GR396Y

24258-07

11/27/2007

Work Order Number

Dated

TSIO-360-LB

Engine Model

247127-R

Serial Number

Dynamic balanced engine per FAA Approved Process Spec. AMP-4302. Installed new TCM P/N: EQ7096 cylinder kits.

This engine has been remanufactured to Zero Time Tolerances by Penn Yan Aero.

Not supplied

Previous Time in Service

Repair Station Y2GR396Y Authorized Signature

PENN YAN AERO**CONTINENTAL ENGINE SHIPPING LIST - CUSTOM MAJOR OVERHAUL****W/O # 24258-07**
AIRMODS & REPAIR**MODEL # TSIO-360-LB**
DATE 11/26/2007**S/N 247127-R**
CHECK OUT BY MIKE SMITH

| | Y | N | NOTES |
|----------------------------|---|---|--------------------|
| BAFFLES VENTRAL | X | | 6 |
| BAFFLES FRONT | | X | |
| BAFFLES REAR | | X | |
| BAFFLES SIDE | | X | |
| BREATHER FITTING | X | | INTEGRAL |
| CARBURETOR | | X | |
| THROTTLE BODY | X | | 1-TEE, 1-90 |
| THROTTLE ARM | X | | IN BOX |
| MIXTURE ARM | X | | ON FUEL PUMP |
| FUEL PUMP | X | | 2-90, 4-45 |
| FUEL INLET FITTING | X | | AS NOTED ABOVE |
| CHT FITTING | | X | |
| CHT TYPE & LOCATION | | X | |
| DIPSTICK | X | | |
| DIPSTICK TUBE | X | | |
| EXHAUST STACKS | | X | |
| FILTER CONDENSERS | X | | |
| FLOW DIVIDER | X | | 1-90, 2-45 |
| FUEL INJ. NOZZLES & LINES | X | | 6-NOZZLES, 6-LINES |
| ALTERNATOR | X | | PRESTOLITE |
| ALTERNATOR BRACKET | | X | |
| ALTERNATOR CONTROL ARM | | X | |
| HARNESS | X | | 2-NEW SLICK |
| INTER CYL. BAFFLES | X | | 1 |
| LIFTING EYES | X | | 1 |
| MAGNETOS | X | | 2-SLICK |
| LOG BOOKS | X | | PENN YAN YELLOW |
| MANIFOLD PRESSURE FITTINGS | X | | 1-45 |
| MOUNT LEGS | X | | 4 |
| NOSE SEAL RETAINING KIT | X | | W/ HARDWARE |
| OIL COOLER | X | | POSITECH |
| OIL COOLER FITTINGS | | X | |
| OIL FILTER | X | | ES48108 |
| OIL FILTER ADAPTER | X | | |
| OIL SUMP | X | | |
| OIL TEMP FITTING | | X | |
| OIL PRESSURE FITTING | X | | 1-90 |
| PRIMER JETS & LINES | X | | 2-JETS, 3-LINES |
| PROP GOV PAD STUD LENGTH | X | | 4 @ 1 3/8" |
| QUICK DRAIN | X | | IN BOX |
| SPARK PLUGS | X | | 12 URHM38E |
| STARTER | X | | SKY-TEC |
| STARTER DRIVE ADAPTER | X | | |
| SUMP PLUG | X | | |
| TACH DRIVE | X | | |
| VACUUM PUMP DRIVE | X | | |
| INTAKE PIPES | X | | |
| HEAT SHIELD | | X | |
| FILL TUBE & CAP | X | | |

ACCESSORIES

| | | |
|-----------------------------|-----|--------------|
| <u>LEFT MAGNETO</u> | P/N | 6324 |
| | S/N | 03010182 |
| <u>RIGHT MAGNETO</u> | P/N | 6324 |
| | S/N | 06090497 |
| <u>STARTER</u> | P/N | C12ST3 |
| | S/N | 2C3-440715 |
| <u>ALTERNATOR</u> | P/N | ALX9425B |
| | S/N | 930300012 |
| <u>FUEL SYSTEM</u> | P/N | 640563-8 |
| | S/N | J298702AR |
| <u>FUEL PUMP</u> | P/N | 646758-6 |
| | S/N | J288721BR |
| <u>PROP GOV.</u> | P/N | NOT SUPPLIED |
| | S/N | NOT SUPPLIED |

NOTES

| |
|--|
| CRANKSHAFT - 872005, WITH OIL TRANSFER TUBE. |
| CASE - MATCH # 9C760 |
| OIL COOLER - POSITECH, 646880, G06-48342-7 |
| TURBO - CF600573-9000, TR0907147 |
| 2-FUEL DRAIN BACK MANIFOLDS |
| BOXED - TURBO, TURBO BRACKET, TURBO FITTINGS, ALTERNATOR, MAG HARNESS CLAMP & TIE KIT, EXHAUST GASKETS & NUTS, MISC. ENGINE GASKETS & O RINGS, MISC. ENGINE FITTINGS & BRACKETS, MISC. ENGINE CLAMPS & FLEX LINES, MISC. ENGINE HARDWARE & HOSES, THROTTLE CONTROL ARM, HEAT PADS, QUICK DRAIN, BREATHER TUBE, |
| * PLEASE NOTE PICTURES* |

PYA FORM # PY-106 11/1/2005

THIS ENGINE WAS ASSEMBLED AS INDICATED. ORIGINAL CHECK IN ON FILE AT PENN YAN AERO

Penn Yan Aero **Operating Requirements**

Installation

Your Penn Yan Overhauled engine has been thoroughly tested at our facility. It has been operated at maximum power; therefore no extended running prior to flight is required nor is it desirable. Ground operation should be limited to that time necessary to insure proper control function, gauge operation, and no installation-related leaks of any sort. Propeller cycling should be minimized; just enough to assure proper operation, a maximum 200 RPM drop, once. Provided all parameters are within reasonable and airworthy limits, it is generally best to make final idle and trim adjustments after the first flight rather than before. Remember that it is always advantageous to be familiar with any idiosyncrasies of the particular aircraft; it's control system and instrumentation. This will help to preclude trying to adjust airframe problems out of the engine. It is also important to note that your engine has been fogged internally with corrosion inhibitive oil. This oil will not last forever. If the engine is not installed within 60 days, please contact us for corrosion preventative recommendations.

First Flight

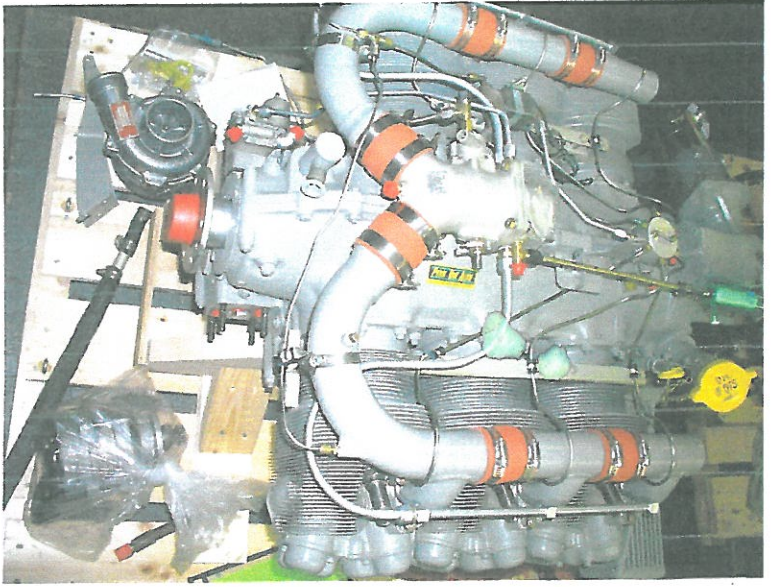
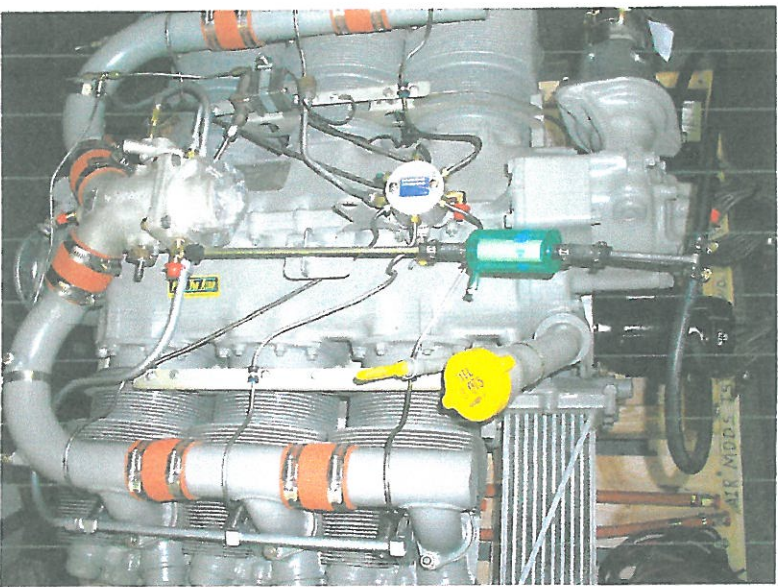
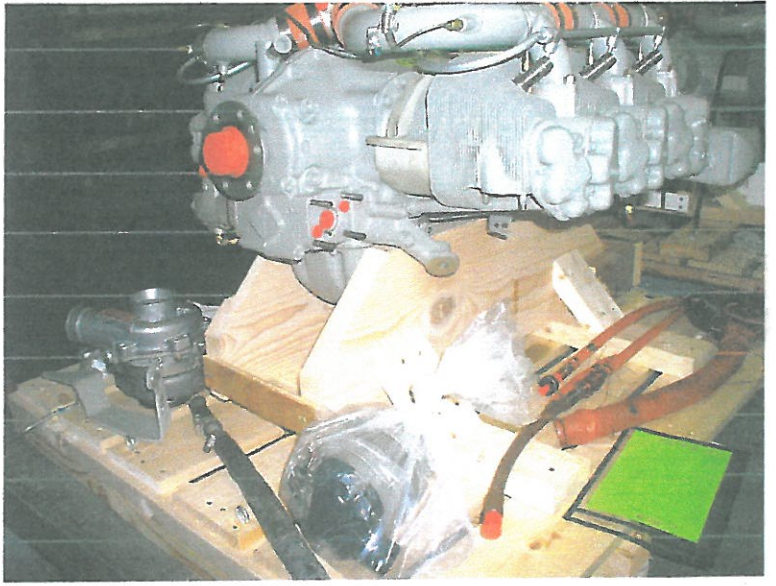
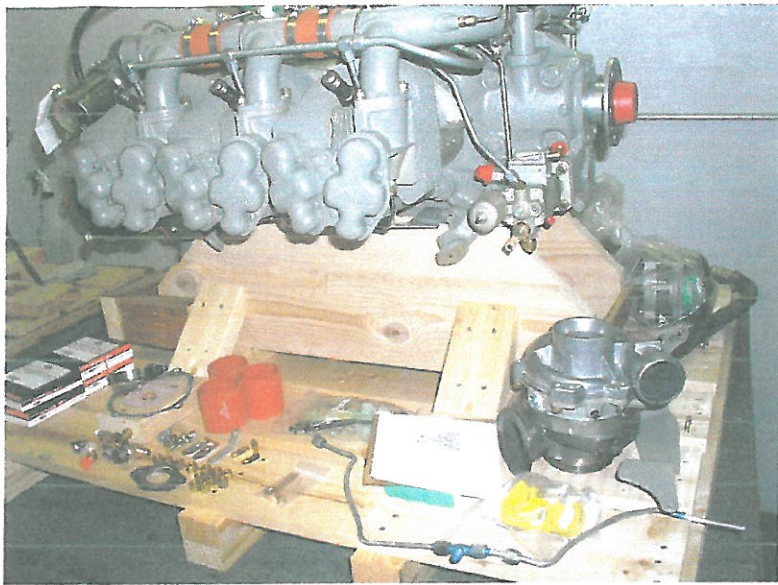
It is absolutely essential that the engine and installation be carefully inspected before and after the first flight. The first flight should be at least 1 hour in duration, climb speeds should be kept high when practical and leaning in climb avoided except as necessary to maintain smooth operation at high altitudes. Cruise settings should be maintained at 70% to 75% power whenever possible. Any sort of abusive operation such as touch and goes, power off stalls, and "0" thrust should be avoided for the first 20 hours.

Engine Break In

Straight weight mineral oil should be used during the break in period. During this period we recommend that the oil and filter be changed at 10 hours to remove combustion contaminants associated with break in and every 25 hours there after. It is important to note that it is strongly recommended that an anti-corrosion additive such as AvBlend or equivalent be used during break-in and throughout the life of the engine. Many oils do not contain anti-corrosion additives and your engine warranty does NOT cover corrosion so be proactive.

All takeoffs should be performed at full power. There should be no rush to reduce power to climb settings. Most engines are designed and built to operate at maximum power indefinitely. A few models are time restricted at maximum RPM; those restrictions will be called out in the aircraft operating handbook as well as being marked on the tachometer.

Engine break-in can take as long as 50 hours or as few as 10 hours depending on cylinder type, aircraft usage and climatic conditions. Each engine is different. It is important that the engine oil temperature be brought up to normal operating range and flown for as long as possible but no less than 1 hour at per flight for the first few hours. Watch your oil



Sky-Tec Flyweight Starters

WARRANTY

Sky-Tec Partners, Ltd. ("Sky-Tec") warrants its starters to be free from defects in materials and workmanship for a period of two years from the date of purchase. Sky-Tec will repair or replace any starter it determines to have failed under the terms of this warranty if and only if the customer's original starter is sent to Sky-Tec for evaluation.

Alternatively, Sky-Tec may offer a warranty exchange program to any customer requiring expedited replacement. The customer will be responsible for purchasing a replacement starter directly from Sky-Tec and returning their original starter directly to Sky-Tec for evaluation. If the starter is found to have failed under the terms of this warranty, appropriate credit will be given to the customer for the value of the starter plus domestic UPS Ground shipping charges. Customers will be responsible for any additional expedited shipping charges. Alternatively, a customer may receive core credit regardless of warrantability of the returned starter.

Sky-Tec makes no warranty as to suitability of its products for the intended application.

To be considered eligible for warranty credit, **DO NOT PURCHASE A REPLACEMENT STARTER FROM A DEALER**. Sky-Tec will not offer warranty credit for replacement starters purchased through a dealer. All warranty claims must be handled directly with the manufacturer, Sky-Tec Partners, Ltd.

If you suspect a starter to be defective, consult the [Aircraft Troubleshooting Guide](#) supplied. Before returning a starter to Sky-Tec for service, you must first [obtain a return authorization electronically online](#).

Starters returned to the factory via UPS with a valid Return Authorization number will usually be repaired or replaced the same day as received. Other carriers and/or circumstances may increase turn around to 1-2 days.

Warranty Details

Sky-Tec warrants its starters to be free from defects in materials and workmanship for a period of two years from the date of purchase.

Sky-Tec Warranty is *voided* if:

- A starter that is used in the wrong application*.
- Customer attempts to service the starter in the field by removing or replacing any components not specifically instructed and/or supplied by Sky-Tec.
- The starter is determined to have failed by application of voltage in excess of amount specified on starter name plate (physical evidence: armature will be splayed and/or exploded due to the forces of over-rotation and the associated centripetal force WITHOUT discoloration of commutator bars or warping of brush insulator).
- The starter is determined to have failed by application of voltage in excess of cranking times specified on [starter tag](#) (shipped with all starters) which reads: "Crank for no more than 10 seconds then allow 20 seconds cool-down. Repeat up to 6 times. Then let starter cool for 30 min." (physical evidence: copper armature bars are discolored to white/purple hues, brush wires are discolored similarly, brush insulator is warped or scorched, smell of burnt metal evident, and/or melted insulation in motor area). This condition is often caused by the aircraft's starter contactor (solenoid) sticking "closed" beyond the pilot's intended period of cranking.
- The starter is determined to have failed by a counter-rotational force caused by the engine's ignition system failing to retard all sparks at or past piston TDC during the cranking period aka "[kickback](#)" (physical evidence: bent or broken mount, broken or displaced magnets, broken or chipped brush assemblies, broken drive components and/or excessively worn or damaged drive gear teeth)**.
- The starter has any foreign substance located internally including motor oil, cleaning agents or foreign particles not found in the starter's normal composition (physical evidence: presence of substance within starter causing solenoids or motor brush assemblies to wear prematurely and/or function improperly).
- A starter returned to Sky-Tec under warranty-exchange is determined to perform to specifications (i.e. the starter is good). Warranty applies to starters with defects, not good starters. Core credit may be given to the customer should the core be determined to be rebuildable at Sky-Tec's sole discretion.
- The starter is damaged by impact, shock, excessive shaking or other physical abuse (physical evidence: dents to starter components, loose or stripped connection terminals, and bent components not caused by defects in components, design or workmanship).

Additional Warranty Notes

* Ring gear/starter mismatches are the sole responsibility of the installing mechanic and/or aircraft owner. A starter that has been mounted to an engine can no longer be returned for credit as a new starter and will be considered to be a used starter by the factory. **CHECK FOR ALL FIT/CLEARANCE ISSUES BEFORE INSTALLING THE STARTER.** Once mounted, some starters may be converted to the proper model by Sky-Tec's Repair Station at the starter owner's sole expense (time/materials cost). [Obtain a Return Authorization](#) before returning any starter to Sky-Tec for conversion.

** Sky-Tec will waive the kickback exclusion above for up to two years from date of installation of the starter *only* for those aircraft with a valid logbook entry showing they were operating [E-MAG Ignition's Electronic Ignition solution](#) during the time of starter failure due to kickback.

Sky-Tec cannot and never will warrant damage to non-starter components or any non-starter-related expense(s) including labor, inconvenience, transportation or loss of business due to any starter failure.

Additional Notes for Sky-Tec High-Torque Inline (NL Model) Starters Only:

The NL starter is designed to respond to kickback and other destructive engine cranking anomalies by shearing a shear pin on the starter's internal lay shaft. Sky-Tec will not warrant any damage to non-starter components (ring gear, etc.) should the shear pin fail to shear. However, should the pin fail to shear causing the starter nose housing to crack, Sky-Tec will warrant the replacement of the nose/mount housing(s) for a period of up to two years from date of purchase under the standard warranty terms above (return to factory for repair/replacement).

The NL starter is designed to fit nearly every Lycoming aircraft application by simulating the location of various mounting points found on the old, heavy OEM starters. As such, NL starters feature four machined aluminum bosses cast into the starter mount. These bosses are not required for proper function of the NL starter but serve only to support accessories on/around the starter. If a specific aircraft installation requires the alteration or removal of one or all four of these bosses, customers may remove the bosses without loss of any warranty privileges. Acceptable means of removal include cutting and/or grinding without incurring any damage to other starter components or features. However, starter damage or starter failure due to the *improper* or *inappropriate* removal of these bosses will *not* be covered under the factory warranty.

Penn Yan Aero Engine Warranty - New Cylinders - 2 year/500 Hours

Penn Yan Aero warrants their engines, remanufactured by them utilizing new cylinders to be free from defects in material and workmanship under normal use and service for a period of TWO YEARS FROM DELIVERY OR 500 hours of operation, whichever event will occur first.

After two years or five hundred hours, and prior to the manufacturer's published TBO, the cost of repair or replacement (including the cost of parts and labor) at Penn Yan Aero's option, will be pro rated in the following manner: The customer will pay the price of the repair or replacement divided by manufacturer's published TBO and multiplied by the number of hours on the engine (which will be deemed the greater of the actual operated hours or time at forty hours per month from the date of installation). Labor reimbursement is per Penn Yan Aero's flat rate allowance. After the initial one year, Penn Yan Aero will not assume any responsibility for the repair or replacement of engine accessories, e.g., magnetos, starter, alternator, fuel injector, or carburetor.

Penn Yan Aero's obligation under this warranty is limited to the repair or replacement, at their option, of any part, component or engine which in their opinion, is defective and which has been returned to their facility, transportation prepaid. Penn Yan Aero assumes no obligation for work accomplished at a facility other than their own unless prior written authorization is given by them. Penn Yan Aero reserves the right to furnish any parts and/or components required and if requested, the owner must return warranted parts and/or components to Penn Yan Aero for our examination, properly identified, including warranty paperwork, transportation prepaid.

This warranty will not apply to engines, their component parts or accessories, which have been improperly installed, adjusted, stored, handled, repaired, altered, or operated contrary to the aircraft flight manual, current manufacturer's or Penn Yan Aero recommendations. It will not apply to engines or accessories subject to misuse, neglect, accident, corrosion or lack of preventive maintenance as prescribed by the manufacturer.

Warranties will not be granted for trouble-shooting or removal and installation of engines, or components or accessories, for normal routine maintenance, inspections, or adjustments. Replacement or repair of an engine, component, or accessory will not be construed to extend the initial warranty period. Penn Yan Aero shall not be responsible for any down time or travel cost, including incidental expenses associated with loss of use due to warranty conditions.

This warranty is expressed in lieu of all other and representations, expressed or implied, and all other obligations and liabilities, either direct or consequential on the part of Penn Yan Aero.

W.O. No.: 24258-07

Date: 11/27/2007

Serial Number: 247127-R



Penn Yan Aero

2499 Bath Road, Penn Yan, New York 14527

Telephone: 315-536-2333

www.pennyanero.com

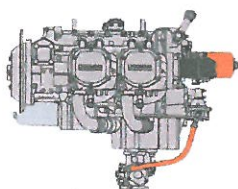
FAA Approved Repair Station: Y2GR396Y

The Power of Experience

Engine Parts & Accessories SERVICE, SELECTION, & SUPPORT

Contact Penn Yan Aero and Discover Real Service with Discount Pricing!

Airwolf • Bendix Ignition • Bracket • Consolidated Fuel Systems • ECI - Engine Components • Electrosystems • Lord • Niagara
Positech • PowerFlow • Precision Airmotive • Real Gasket Corporation • SKY-TEC • Superior • Continental • Tempo Paints • Lycoming • Unison



Excellent People Working for You!

Penn Yan Aero is made up of professional people with *real* experience and *real* knowledge that can *really* help you when you need it most. Use *The Power of Experience!*

Tim "Don" Donnells

Manager, Parts Sales & Service
tdonnells@PennYanAero.com
800-727-7230 or 315-536-2333
Extension: 7235

Cathy Earl

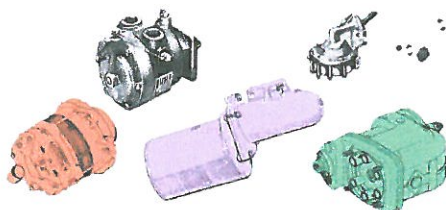
Assistant Manager, Parts Sales & Service
cearl@PennYanAero.com
800-727-7230 or 315-536-2333
Extension: 7202

Kara Bucklin

Parts Sales & Service
kbucklin@PennYanAero.com
800-727-7230 or 315-536-2333
Extension: 7234

Tony Conley

Used Parts Sales & Warranty Administration
tconley@PennYanAero.com
800-727-7230 or 315-536-2333
Extension: 7205



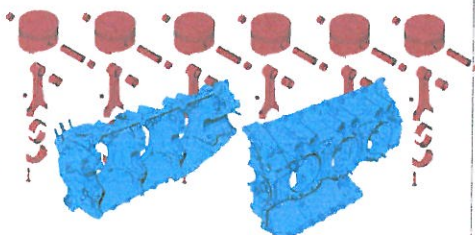
OVERHAUL SHOP

There are many times it is more efficient, less expensive, and more available to overhaul carburetors, starters, magnetos (Bendix and Slick) and Lycoming and Continental fuel injection systems. Penn Yan Aero has the knowledge, experience, tools, and test facilities to deliver the highest possible quality - all backed by Penn Yan Aero's warranty.



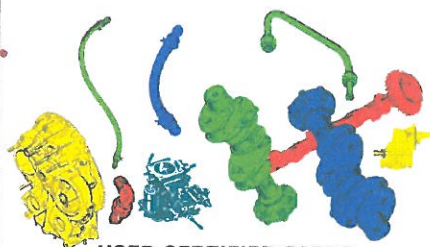
REMANUFACTURED CYLINDERS

Penn Yan Aero Remanufactured Cylinders come complete with everything; matching piston, rings, wrist pin, installed and lapped valves, guides, springs, seats, and keepers. Fully tested, readily available, and include Penn Yan Aero's 100% Parts & Labor, 2 Year, 500 Hour, whichever occurs first TBO Warranty! Call with application.



NEW ENGINE PARTS - OEM / PMA

From Lycoming, Continental, Superior, & ECI - Cranks, cases, lifters, cams, pistons, rings, cylinders, guides, valves, springs, ring gears, oil filter adapters, gasket sets, oil pump bodies - what do you need? Call for discount price and availability.



USED CERTIFIED PARTS

Penn Yan Aero has an extensive inventory of used certified parts including cases, cranks, cams, and rods. Many times we have the certified used parts when new ones aren't available. Call with your requirements.

Factory OEM engine parts, scat hose, baffle seals, clamps, after market engine parts, cylinders, fuel systems, starters, magnetos, remote oil filters, oil coolers, turbos and controllers - if it's for the engine or compartment we have it.

We know Lycoming and Continental engines. When you need parts, give us a call and put our experience to work for you. Discover our good old fashioned service!

Local Telephone: 315-536-2333 | FAX: 315-536-2335

800-727-7230

FAA Repair Station: Y2GR396Y | Hours: M - F: 7AM - 5PM EST



The Power of Experience

PENN YAN AERO

Penn Yan Aero, 2499 Bath Road, Penn Yan, New York 14527

The accessories listed are either new or were overhauled (as indicated) and supplied with this engine:

TSIO-360-LB ✓

Engine Model

247127-R ✓

24258-07 ✓

11/27/2007 ✓

Serial Number

Work Order Number

Date

Repair Station Y2GR396Y Authorized Signature



Penn Yan Aero

2499 Bath Road, Penn Yan, New York 14527

Telephone: 1-315-536-2333

www.pennyanero.com

FAA Approved Repair Station: Y2GR396Y

6324 (New) ✓

06090497 ✓

Right Magneto - Part Number

Serial Number

6324 ✓

03010182 ✓

Left Magneto - Part Number

Serial Number

640563-8 ✓

J289702AR ✓

Injector/Carburetor - Part Number

Serial Number

646758-6 ✓

J288721BR ✓

Fuel Pump - Part Number

Serial Number

C12ST3 (New) ✓

2C3-440715 ✓

Starter - Part Number

Serial Number

646396

TR0907147 ✓

Turbocharger - Part Number

Serial Number

N/A

N/A

Controller - Part Number

Serial Number

N/A

N/A

Controller - Part Number

Serial Number

N/A

N/A

Waste Gate - Part Number

Serial Number

This is to certify that the engine described hereafter has been overhauled to manufacturer's new parts tolerances and limits where applicable by Penn Yan Aero. Engine disassembled, cleaned, inspected, repaired, reassembled, and tested in accordance with data approved by and or acceptable to the FAA. All applicable Airworthiness Directives are in compliance. See A.D. list supplied.



Penn Yan Aero

2499 Bath Road, Penn Yan, New York 14527

Telephone: 1-315-536-2333

www.pennyanero.com

FAA Approved Repair Station: Y2GR396Y

24258-07

11/27/2007

Work Order Number

Dated

TSIO-360-LB

Engine Model

247127-R

Serial Number

Dynamic balanced engine per FAA Approved Process Spec. AMP-4302. Installed new TCM P/N: EQ7096 cylinder kits.

This engine has been remanufactured to Zero Time Tolerances by Penn Yan Aero.

Not supplied

Previous Time in Service

Repair Station Y2GR396Y Authorized Signature



PROPELLER MAINTENANCE RECORDS

**AERO
TECH PUBLICATIONS INC.**
P.O. BOX 538 / OLD BRIDGE, NJ 08857

PROPELLER MAINTENANCE RECORDS

Log No. I

Aircraft Registration No. N1281RM

Propeller Manufacturer McCauley

Hub Model 2A34C216

Blade Design No. _____

Diameter 74.0 in.

Hub Serial No. ~~788738~~ 812807

Blade Serial No's.

Governor _____

1. B100384

Model No. _____

2. B100281

3. _____

Pitch Range

High 33.0° ± .5° Low 14.7° ± .2°

Feather _____ Reverse _____

If used on multi-engine aircraft:

- | | |
|--------------------------------|-------------------------------|
| <input type="checkbox"/> Right | <input type="checkbox"/> Left |
| <input type="checkbox"/> Front | <input type="checkbox"/> Rear |

(All applicable information must be filled in)

OWNERSHIP RECORD

Name _____ Date Purchased _____

Address _____

Name _____ Date Purchased _____

Address _____

 **AERO
TECH PUBLICATIONS INC.**

ROUTE 79 / P.O. BOX 99 / MORGANVILLE, NJ 07751

| DATE | TOTAL TIME IN SERVICE | TACH/RECORDING METER TIME | DESCRIPTION OF WORK PERFORMED— SIGNATURE & CERTIFICATE NO. OF PERSON PERFORMING WORK |
|----------|-----------------------|---------------------------|---|
| 7-9-81 | 487.7 | HOBBBS | Ohio State University Airport 50 Hr. Inspection & Oil Change Date 7-9-81 Work Order No. 5438 Signature Robert P. Carlson IA 6038478 Certificate No. R.S. 1038 |
| 12-3-81 | 1749.4 | HOBBBS | Removed propeller from aircraft Overhauled IAW Mercury S/C + S/B Exchanged overhauled Hub S/N 812807 for Hub S/N 788738, removed con benchchecked for customs wingstall both on same aircraft N281 RM End Vah Zett / 234107 SPS ATLANTA CRS 5206 |
| 1-24-92 | 2365.3 | 0 | INSTALLED A NEW "ZERO" TIME HOBBBS METER. END Larry J. Snyder for CRS DY1R103K END |
| 11-11-92 | 2487.8 | HOBBBS 123.5 | PROP TIME SMOH - 738.2 CHECKED PROP DURING ANNUAL INSP. END Larry J. Snyder CRS DY1R103K END |
| 12-1-93 | 2671.6 | HOBBBS 306.3 | PROP TIME SMOH - 923.0 CHECKED PROP DURING ANNUAL INSPECTION. END Larry J. Snyder CRS DY1R103K WO # 10726 END |
| 12-9-94 | 2854.6 | HOBBBS 489.3 | PROP TIME SMOH - 1105.0 CHECKED PROP DURING ANNUAL INSPECTION END David M. Mathiesen for CRS DY1R103K WO # 11023 |
| 2/1/96 | SMOH, 1244. | 628.3 | AW ANNUAL INSP. IAW MOONEY FORM, dress & painted blades. David Mathiesen 139641126 IA. |
| 4/10/97 | SMOH, 1379.7 | 764. | AW ANNUAL INSP. IAW MOONEY FORM, dress. & painted blades. David Mathiesen DAVID MATHIESEN A & P 139641126 I.A. |

| DATE | TOTAL TIME IN SERVICE | TACH/ RECORDING METER TIME | DESCRIPTION OF WORK PERFORMED— SIGNATURE & CERTIFICATE NO. OF PERSON PERFORMING WORK |
|----------|--------------------------------|-------------------------------------|---|
| 5/6/97 | 1466.7 | 851 | C/W ANNUAL INSP. IAW MOONEY FORM, dress & paint blades. <i>David Mathiesen</i> DAVID MATHIESEN A&P 1396411261.A. |
| 7/20/99 | 1555.7 | 940 | C/W ANNUAL INSP. IAW MOONEY FORM, dress & paint blades. <i>David Mathiesen</i> DAVID MATHIESEN A&P 1396411261.A. |
| 10/20/00 | 1635.7 | 1020 | C/W ANNUAL INSP. IAW MOONEY FORM, dress & paint blades. <i>David Mathiesen</i> DAVID MATHIESEN A&P 1396411261.A. |
| 1/3/02 | 1714.7 | 1098.5 | C/W ANNUAL INSP. IAW MOONEY FORM, dressed & painted blades. <i>David Mathiesen</i> DAVID MATHIESEN A&P 1396411261.A. |
| 4/25/03 | 1790.7 | 1175 | C/W ANNUAL INSP. IAW MOONEY FORM, dressed & painted blades. <i>David Mathiesen</i> DAVID MATHIESEN A&P 1396411261.A. |


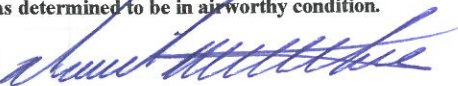
Air Mods And Repair
Trenton- Robbinsville Airport (N87)
Robbinsville, NJ

N281RM 7-26-04 Tach: 1239.4 SMOH: 1855.1

- C/W Annual inspection & servicing IAW Mooney insp. form and requirements of FAR 43, App. D.
- Dressed and painted blades.
- Checked blade track.
- AD compliance checked through bi-weekly 04-13.

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

David Mathiesen
David Mathiesen
A&P 2777904 IA

| DATE | TOTAL TIME IN SERVICE | TACH/ RECORDING METER TIME | DESCRIPTION OF WORK PERFORMED— SIGNATURE & CERTIFICATE NO. OF PERSON PERFORMING WORK |
|--|--------------------------------|-------------------------------------|---|
| <p align="center"><i>Air Mods And Repair</i> <i>Trenton- Robbinsville Airport (N87)</i> <i>Robbinsville, NJ</i></p> | | | |
| <p>N281RM 10-01-05 Hobbs: 1261.00 SMOH: 1876.70</p> | | | |
| <ul style="list-style-type: none"> • C/W Annual inspection & servicing IAW <i>Mooney</i> insp. form and requirements of FAR 43, App. D. • Dressed and painted blades. • Checked blade track. • AD compliance checked through bi-weekly 05-19. | | | |
| <p>I certify that this propeller has been inspected in accordance with an annual inspection and was determined to be in airworthy condition.</p> | | | |
| <p>David Mathiesen  A&P 2777904 IA</p> | | | |
| <p align="center"><i>Air Mods And Repair</i> <i>Trenton- Robbinsville Airport (N87)</i> <i>Factory Authorized Mooney Service Center</i></p> | | | |
| <p>N281RM 2-1-07 Hobbs: 1308.3 SMOH: 1924.0</p> | | | |
| <ul style="list-style-type: none"> • C/W Annual inspection & servicing IAW <i>Mooney</i> insp. form and requirements of FAR 43, Appendix D. • Dressed and painted blades. • Checked blade track. • AD compliance checked through bi-weekly 07-02. | | | |
| <p>I certify that this propeller has been inspected in accordance with an annual inspection and was determined to be in airworthy condition.</p> | | | |
| <p>David Mathiesen  A&P 2777904 IA</p> | | | |

| DATE | TOTAL TIME IN SERVICE | TACH/RECORDING METER TIME | DESCRIPTION OF WORK PERFORMED— SIGNATURE & CERTIFICATE NO. OF PERSON PERFORMING WORK |
|--------|-----------------------|---------------------------|---|
| | | | <p><i>Air Mods and Repair, Inc.</i> <i>Trenton-Robbinsville Airport (N87)</i> <i>Factory Authorized Mooney Service Center</i></p> <p>N 281RM 3-1-08 Tach: 1342.6</p> <ul style="list-style-type: none"> • C/W Annual inspection & servicing IAW Mooney inspection form and requirements of FAR 43 Appendix D. • Dressed and painted blades • Checked blade track • AD compliance checked thru bi-weekly 08-03 <p>I certify that this propeller has been inspected in accordance with an Annual Inspection and was determined to be in airworthy condition.</p> <p><i>David Mathiesen</i> David Mathiesen 2777904 A&P / IA</p> |
| 6/5/08 | 1349.3 | | <p>Removed this propeller for overhaul at SENSENICH. 2777904 A&P</p> <p><i>David Mathiesen</i></p> |

6/10/08

MAINTENANCE RELEASE

OVERHAULED 2

2A34C216
Part No: 90DHB-16E Description: McCauley Propeller
was ☐ REPAIRED (describe)

☒ OVERHAULED per the following documents (include revision levels):
Manuals MC200M, BOM100 R4, SPM100 R4
Service Bulletins THRU 262
Service Letters THRU 2007-9
Service Instructions N/A
Service Advisories N/A

The following Airworthiness Directives have been complied with:

A.D. Method of Recurs at:
N/A Compliance: Date or Hours

Time Since New: HOBBS. 1349.3 Time Since Overhaul/Major: -0-

The item(s) identified above were repaired or overhauled (as indicated) and inspected in accordance with current FAA regulations and are approved for return to service. Pertinent details of this repair or overhaul are on file at

this repair station under work order # L19149

Date June 10, 2008



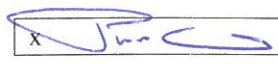

Signed


For Repair Station #QV9R194N

SENSENICH PROPELLER SERVICE, INC.

519 East Airport Road, Lititz, PA 17543

FORM 004

| DATE | TOTAL TIME IN SERVICE | TACH/RECORDING METER TIME | DESCRIPTION OF WORK PERFORMED— SIGNATURE & CERTIFICATE NO. OF PERSON PERFORMING WORK | |
|------|-----------------------|---------------------------|--|--|
| | | | Reg. # <u>N281RM</u> Make: <u>Mooney</u> Model: <u>M20K</u> | Taylor Aviation, Inc. 93 Hangar Rd., Montgomery NY 12549 Propeller |
| | | | | Date: <u>08/24/09</u> Tach/Hobbs: <u>1427.7</u> T.S.M.O. <u>78.4</u> |
| | | | Inspected Propeller in accordance with an Annual Inspection per FAR 43.13 Appendix D and Taylor Aviation Inc. guide. Verified Airworthiness Directives for compliance through this date using Avantext and Federal Libraries (See Report for Details). Dressed and painted face of blades. Performed maintenance operational inspection this date with no discrepancies noted at this time. I CERTIFY THIS PROPELLER HAS BEEN INSPECTED IN ACCORDANCE WITH AN ANNUAL INSPECTION AND HAS BEEN DETERMINED TO BE IN AN AIRWORTHY CONDITION. | |
| | | | <div style="display: flex; justify-content: space-between;">  Philip A. Criscenzo A&P / IA 14344919 </div> | |
| | | | April 14, 2010 Mooney, M20K, N281RM S/N 25-009 | |
| | | | Performed dynamic balance on McCauley prop M/N 2A34C216, prop S/N 812807. Start .65 I.P.S.. Final .07 I.P.S.. Installed 32 grams at 360°. All work performed using Aces M/N 2020 S/N 34377 Cal. due 07-29-2010 and FAA approved manual 1000-OM-01 Revision 2, Aces Systems Guide to Propeller Balancing. Hour meter 1468.4 | |
| | | | <div style="display: flex; justify-content: center;">  Roger C. Butler A&P 2136751 I.A. For New England Propeller Service </div> | |
| | | | Reg. # <u>N281RM</u> Make: <u>Mooney</u> Model: <u>M20K</u> | Taylor Aviation, Inc. 93 Hangar Rd., Montgomery NY 12549 Propeller |
| | | | | Date: <u>09/01/10</u> Tach/Hobbs: <u>1479.0</u> T.S.M.O. <u>129.7</u> |
| | | | Inspected Propeller in accordance with an Annual Inspection per FAR 43.13 Appendix D and Taylor Aviation Inc. guide. Verified Airworthiness Directives for compliance through this date using Avantext and Federal Libraries (See Report for Details). Dressed and painted face of blades. Performed maintenance operational inspection this date with no discrepancies noted at this time. I CERTIFY THIS PROPELLER HAS BEEN INSPECTED IN ACCORDANCE WITH AN ANNUAL INSPECTION AND HAS BEEN DETERMINED TO BE IN AN AIRWORTHY CONDITION. | |
| | | | <div style="display: flex; justify-content: space-between;">  Philip A. Criscenzo A&P / IA 3491550 </div> | |
| | | | Reg. # <u>N281RM</u> Make: <u>Mooney</u> Model: <u>M20K</u> | Taylor Aviation, Inc. 93 Hangar Rd., Montgomery NY 12549 Propeller |
| | | | | Date: <u>02/01/2012</u> Tach/Hobbs: <u>1506.7</u> T.S.M.O. <u>157.4</u> |
| | | | Inspected Propeller in accordance with an Annual Inspection per FAR 43.13 Appendix D and Taylor Aviation Inc. guide. Verified Airworthiness Directives for compliance through this date using Avantext and Federal Libraries (See Report for Details). Dressed and painted face of blades. Performed maintenance operational inspection this date with no discrepancies noted at this time. I CERTIFY THIS PROPELLER HAS BEEN INSPECTED IN ACCORDANCE WITH AN ANNUAL INSPECTION AND HAS BEEN DETERMINED TO BE IN AN AIRWORTHY CONDITION. | |
| | | | <div style="display: flex; justify-content: space-between;">  Philip A. Criscenzo A&P / IA 3491550 </div> | |

| DATE | TOTAL TIME IN SERVICE | TACH/RECORDING METER TIME | DESCRIPTION OF WORK PERFORMED— SIGNATURE & CERTIFICATE NO. OF PERSON PERFORMING WORK | |
|------|-----------------------|---------------------------|--|------------------------------------|
| | | | Reg. # <u>N281RM</u> | <i>Taylor Aviation, Inc.</i> |
| | | | Make: <u>Mooney</u> | 93 Hangar Rd., Montgomery NY 12549 |
| | | | Model: <u>M20K</u> | Propeller |
| | | | Date: <u>03/18/13</u> | |
| | | | Tach/Hobbs: <u>1553.1</u> | |
| | | | T.S.M.O. <u>203.8</u> | |
| | | | Inspected Propeller in accordance with an Annual Inspection per FAR 43.13 Appendix D and Taylor Aviation Inc. guide. Verified Airworthiness Directives for compliance through this date using Avantext and Federal Libraries (See Report for Details). Dressed and painted face of blades. Performed maintenance operational inspection this date with no discrepancies noted at this time. I CERTIFY THIS PROPELLER HAS BEEN INSPECTED IN ACCORDANCE WITH AN ANNUAL INSPECTION AND HAS BEEN DETERMINED TO BE IN AN AIRWORTHY CONDITION. -----END----- | |
| | | | <div style="display: flex; justify-content: space-between;"> x  Philip A. Criscenzo A&P / IA 3491550 </div> | |



Waterbury Oxford Airport KOXC
203-267-6017

288 Christian Street
Oxford, CT 06478

N281RM 25-0059 April 8, 2014 Tach: 4013.9
SMOH: 306.0 PSOH: 251.3
This propeller has been inspected in accordance with an Annual Inspection and has been found to be in airworthy condition.


Christopher S Carman AP2858236IA 



Waterbury Oxford Airport KOXC
203-267-6017

288 Christian Street
Oxford, CT 06478

N281RM 25-0059 April 12, 2015 Hobbs: 1730.6
TTAF: 4095.9 SMOH: 388.0 PSOH: 333.3
This propeller has been inspected in accordance with an Annual Inspection and has been found to be in airworthy condition.

Christopher S Carman AP2858236IA 

Date: 12/12/15

N 281RM

Tach: 1788.0

Dynamically balance propeller using MicroVib computer dynamic balance equipment. Referenced MicroVib aircraft analyzer user manual 1012 Dated Dec 1997. The relative vibration was reduced from .706 in/sec down to .035 in/sec. This aircraft is airworthy regarding the work performed.

A&P 3645577



Anthony D. Cutter A&P 3717632 IA

THE
adlogTM AIRCRAFT
MAINTENANCE
RECORDKEEPING
SYSTEM

**AVIONICS
MAINTENANCE
RECORDS**

AVIONICS MAINTENANCE RECORDS

(including transponder biennial checks)

Aircraft Registration No. N281 RM Log No. 2
Aircraft Manufacturer MOON
Model M20K
Serial No. 25-0059

EQUIPMENT LISTING

List all installed avionics, autopilot and flight director equipment.

| | Mfg. | Model | Serial No. |
|-----|------|-------|------------|
| 1. | | | |
| 2. | | | |
| 3. | | | |
| 4. | | | |
| 5. | | | |
| 6. | | | |
| 7. | | | |
| 8. | | | |
| 9. | | | |
| 10. | | | |
| 11. | | | |
| 12. | | | |
| 13. | | | |
| 14. | | | |
| 15. | | | |
| 16. | | | |
| 17. | | | |
| 18. | | | |
| 19. | | | |
| 20. | | | |



AEROTECH PUBLICATIONS INC.

P.O. Box 1359 / Southold, NY 11971-0965
(631) 765-9375
1-800-235-6444
FAX: (631) 765-9359

Altimeter and Static System Certification Form

Date 27 Jul 2010 Owner N281RM W.O.# 11437 Tech W.D.

At 29.92g A/C Alt reads -20/-80 At 29.92g Test Alt reads -20
At field elevation A/C Reads 30.7 At field elevation Test alt reads 30.7

App'd Avionics / 2011 67X-350

| Check points | Scale error | Tolerance | Friction | Tolerance | Encoder error | Tolerance |
|--------------|-------------|-----------|----------|-----------|---------------|-----------|
| -1000 | -10/-100 | 20 | X | X | X | X |
| 0 | 0/-100 | 20 | X | X | X | X |
| 500 | 0/-100 | 20 | X | X | X | X |
| 1000 | 0/-100 | 20 | X | X | X | X |
| 1500 | 0/-100 | 20 | X | X | X | X |
| 2000 | 0/-100 | 20 | X | X | X | X |
| 3000 | 0/-100 | 20 | X | X | X | X |
| 4000 | 0/-100 | 20 | X | X | X | X |
| 6000 | 0/-100 | 20 | X | X | X | X |
| 8000 | 0/-100 | 20 | X | X | X | X |
| 10000 | 0/-100 | 20 | X | X | X | X |
| 12000 | 0/-100 | 20 | X | X | X | X |
| 14000 | 0/-100 | 20 | X | X | X | X |
| 16000 | 0/-100 | 20 | X | X | X | X |
| 18000 | 0/-100 | 20 | X | X | X | X |
| 20000 | 0/-100 | 20 | X | X | X | X |
| 22000 | 0/-100 | 20 | X | X | X | X |
| 25000 | 0/-100 | 20 | X | X | X | X |
| 30000 | 0/-100 | 20 | X | X | X | X |
| 35000 | 0/-100 | 20 | X | X | X | X |

Hysteresis: check point 50% -20/0 +1/-75 feet
After effect error -20/0 +1/-30 feet
Case Leak @ 18000 feet -10/-30 +1/-100 feet

Barometric scale error: Pressure Incidence of Hg

| Altitude Difference (ft) | Pressure Incidence of Hg |
|--------------------------|--------------------------|
| 1724 | 28.10 |
| 1340 | 28.50 |
| 1056 | 28.90 |
| 772 | 29.30 |
| 488 | 29.70 |
| 204 | 30.10 |
| -80 | 30.50 |
| -364 | 30.90 |
| -728 | 31.30 |
| -1092 | 31.70 |
| -1456 | 32.10 |
| -1820 | 32.50 |
| -2184 | 32.90 |
| -2548 | 33.30 |
| -2912 | 33.70 |
| -3276 | 34.10 |
| -3640 | 34.50 |
| -4004 | 34.90 |
| -4368 | 35.30 |
| -4732 | 35.70 |
| -5096 | 36.10 |
| -5460 | 36.50 |
| -5824 | 36.90 |
| -6188 | 37.30 |
| -6552 | 37.70 |
| -6916 | 38.10 |
| -7280 | 38.50 |
| -7644 | 38.90 |
| -8008 | 39.30 |
| -8372 | 39.70 |
| -8736 | 40.10 |
| -9100 | 40.50 |
| -9464 | 40.90 |
| -9828 | 41.30 |
| -10192 | 41.70 |
| -10556 | 42.10 |
| -10920 | 42.50 |
| -11284 | 42.90 |
| -11648 | 43.30 |
| -12012 | 43.70 |
| -12376 | 44.10 |
| -12740 | 44.50 |
| -13104 | 44.90 |
| -13468 | 45.30 |
| -13832 | 45.70 |
| -14196 | 46.10 |
| -14560 | 46.50 |
| -14924 | 46.90 |
| -15288 | 47.30 |
| -15652 | 47.70 |
| -16016 | 48.10 |
| -16380 | 48.50 |
| -16744 | 48.90 |
| -17108 | 49.30 |
| -17472 | 49.70 |
| -17836 | 50.10 |
| -18200 | 50.50 |
| -18564 | 50.90 |
| -18928 | 51.30 |
| -19292 | 51.70 |
| -19656 | 52.10 |
| -20020 | 52.50 |
| -20384 | 52.90 |
| -20748 | 53.30 |
| -21112 | 53.70 |
| -21476 | 54.10 |
| -21840 | 54.50 |
| -22204 | 54.90 |
| -22568 | 55.30 |
| -22932 | 55.70 |
| -23296 | 56.10 |
| -23660 | 56.50 |
| -24024 | 56.90 |
| -24388 | 57.30 |
| -24752 | 57.70 |
| -25116 | 58.10 |
| -25480 | 58.50 |
| -25844 | 58.90 |
| -26208 | 59.30 |
| -26572 | 59.70 |
| -26936 | 60.10 |
| -27300 | 60.50 |
| -27664 | 60.90 |
| -28028 | 61.30 |
| -28392 | 61.70 |
| -28756 | 62.10 |
| -29120 | 62.50 |
| -29484 | 62.90 |
| -29848 | 63.30 |
| -30212 | 63.70 |
| -30576 | 64.10 |
| -30940 | 64.50 |
| -31304 | 64.90 |
| -31668 | 65.30 |
| -32032 | 65.70 |
| -32396 | 66.10 |
| -32760 | 66.50 |
| -33124 | 66.90 |
| -33488 | 67.30 |
| -33852 | 67.70 |
| -34216 | 68.10 |
| -34580 | 68.50 |
| -34944 | 68.90 |
| -35308 | 69.30 |
| -35672 | 69.70 |
| -36036 | 70.10 |
| -36400 | 70.50 |
| -36764 | 70.90 |
| -37128 | 71.30 |
| -37492 | 71.70 |
| -37856 | 72.10 |
| -38220 | 72.50 |
| -38584 | 72.90 |
| -38948 | 73.30 |
| -39312 | 73.70 |
| -39676 | 74.10 |
| -40040 | 74.50 |
| -40404 | 74.90 |
| -40768 | 75.30 |
| -41132 | 75.70 |
| -41496 | 76.10 |
| -41860 | 76.50 |
| -42224 | 76.90 |
| -42588 | 77.30 |
| -42952 | 77.70 |
| -43316 | 78.10 |
| -43680 | 78.50 |
| -44044 | 78.90 |
| -44408 | 79.30 |
| -44772 | 79.70 |
| -45136 | 80.10 |
| -45500 | 80.50 |
| -45864 | 80.90 |
| -46228 | 81.30 |
| -46592 | 81.70 |
| -46956 | 82.10 |
| -47320 | 82.50 |
| -47684 | 82.90 |
| -48048 | 83.30 |
| -48412 | 83.70 |
| -48776 | 84.10 |
| -49140 | 84.50 |
| -49504 | 84.90 |
| -49868 | 85.30 |
| -50232 | 85.70 |
| -50596 | 86.10 |
| -50960 | 86.50 |
| -51324 | 86.90 |
| -51688 | 87.30 |
| -52052 | 87.70 |
| -52416 | 88.10 |
| -52780 | 88.50 |
| -53144 | 88.90 |
| -53508 | 89.30 |
| -53872 | 89.70 |
| -54236 | 90.10 |
| -54600 | 90.50 |
| -54964 | 90.90 |
| -55328 | 91.30 |
| -55692 | 91.70 |
| -56056 | 92.10 |
| -56420 | 92.50 |
| -56784 | 92.90 |
| -57148 | 93.30 |
| -57512 | 93.70 |
| -57876 | 94.10 |
| -58240 | 94.50 |
| -58604 | 94.90 |
| -58968 | 95.30 |
| -59332 | 95.70 |
| -59696 | 96.10 |
| -60060 | 96.50 |
| -60424 | 96.90 |
| -60788 | 97.30 |
| -61152 | 97.70 |
| -61516 | 98.10 |
| -61880 | 98.50 |
| -62244 | 98.90 |
| -62608 | 99.30 |
| -62972 | 99.70 |
| -63336 | 100.10 |
| -63700 | 100.50 |
| -64064 | 100.90 |
| -64428 | 101.30 |
| -64792 | 101.70 |
| -65156 | 102.10 |
| -65520 | 102.50 |
| -65884 | 102.90 |
| -66248 | 103.30 |
| -66612 | 103.70 |
| -66976 | 104.10 |
| -67340 | 104.50 |
| -67704 | 104.90 |
| -68068 | 105.30 |
| -68432 | 105.70 |
| -68796 | 106.10 |
| -69160 | 106.50 |
| -69524 | 106.90 |
| -69888 | 107.30 |
| -70252 | 107.70 |
| -70616 | 108.10 |
| -70980 | 108.50 |
| -71344 | 108.90 |
| -71708 | 109.30 |
| -72072 | 109.70 |
| -72436 | 110.10 |
| -72800 | 110.50 |
| -73164 | 110.90 |
| -73528 | 111.30 |
| -73892 | 111.70 |
| -74256 | 112.10 |
| -74620 | 112.50 |
| -74984 | 112.90 |
| -75348 | 113.30 |
| -75712 | 113.70 |
| -76076 | 114.10 |
| -76440 | 114.50 |
| -76804 | 114.90 |
| -77168 | 115.30 |
| -77532 | 115.70 |
| -77896 | 116.10 |
| -78260 | 116.50 |
| -78624 | 116.90 |
| -78988 | 117.30 |
| -79352 | 117.70 |
| -79716 | 118.10 |
| -80080 | 118.50 |
| -80444 | 118.90 |
| -80808 | 119.30 |
| -81172 | 119.70 |
| -81536 | 120.10 |
| -81900 | 120.50 |
| -82264 | 120.90 |
| -82628 | 121.30 |
| -82992 | 121.70 |
| -83356 | 122.10 |
| -83720 | 122.50 |
| -84084 | 122.90 |
| -84448 | 123.30 |
| -84812 | 123.70 |
| -85176 | 124.10 |
| -85540 | 124.50 |
| -85904 | 124.90 |
| -86268 | 125.30 |
| -86632 | 125.70 |
| -86996 | 126.10 |
| -87360 | 126.50 |
| -87724 | 126.90 |
| -88088 | 127.30 |
| -88452 | 127.70 |
| -88816 | 128.10 |
| -89180 | 128.50 |
| -89544 | 128.90 |
| -89908 | 129.30 |
| -90272 | 129.70 |
| -90636 | 130.10 |
| -91000 | 130.50 |
| -91364 | 130.90 |
| -91728 | 131.30 |
| -92092 | 131.70 |
| -92456 | 132.10 |
| -92820 | 132.50 |
| -93184 | 132.90 |
| -93548 | 133.30 |
| -93912 | 133.70 |
| -94276 | 134.10 |
| -94640 | 134.50 |
| -95004 | 134.90 |
| -95368 | 135.30 |
| -95732 | 135.70 |
| -96096 | 136.10 |
| -96460 | 136.50 |
| -96824 | 136.90 |
| -97188 | 137.30 |
| -97552 | 137.70 |
| -97916 | 138.10 |
| -98280 | 138.50 |
| -98644 | 138.90 |
| -99008 | 139.30 |
| -99372 | 139.70 |
| -99736 | 140.10 |
| -100100 | 140.50 |
| -100464 | 140.90 |
| -100828 | 141.30 |
| -101192 | 141.70 |
| -101556 | 142.10 |
| -101920 | 142.50 |
| -102284 | 142.90 |
| -102648 | 143.30 |
| -103012 | 143.70 |
| -103376 | 144.10 |
| -103740 | 144.50 |
| -104104 | 144.90 |
| -104468 | 145.30 |
| -104832 | 145.70 |
| -105196 | 146.10 |
| -105560 | 146.50 |
| -105924 | 146.90 |
| -106288 | 147.30 |
| -106652 | 147.70 |
| -107016 | 148.10 |
| -107380 | 148.50 |
| -107744 | 148.90 |
| -108108 | 149.30 |
| -108472 | 149.70 |
| -108836 | 150.10 |
| -109200 | 150.50 |
| -109564 | 150.90 |
| -109928 | 151.30 |
| -110292 | 151.70 |
| -110656 | 152.10 |
| -111020 | 152.50 |
| -111384 | 152.90 |
| -111748 | 153.30 |
| -112112 | 153.70 |
| -112476 | 154.10 |
| -112840 | 154.50 |
| -113204 | 154.90 |
| -113568 | 155.30 |
| -113932 | 155.70 |
| -114296 | 156.10 |
| -114660 | 156.50 |
| -115024 | 156.90 |
| -115388 | 157.30 |
| -115752 | 157.70 |
| -116116 | 158.10 |
| -116480 | 158.50 |
| -116844 | 158.90 |
| -117208 | 159.30 |
| -117572 | 159.70 |
| -117936 | 160.10 |
| -118300 | 160.50 |
| -118664 | 160.90 |
| -119028 | 161.30 |
| -119392 | 161.70 |
| -119756 | 162.10 |
| -120120 | 162.50 |
| -120484 | 162.90 |
| -120848 | 163.30 |
| -121212 | 163.70 |
| -121576 | 164.10 |
| -121940 | 164.50 |
| -122304 | 164.90 |
| -122668 | 165.30 |
| -123032 | 165.70 |
| -123396 | 166.10 |
| -123760 | 166.50 |
| -124124 | 166.90 |
| -124488 | 167.30 |
| -124852 | 167.70 |
| -125216 | 168.10 |
| -125580 | 168.50 |
| -125944 | 168.90 |
| -126308 | 169.30 |
| -126672 | 169.70 |
| -127036 | 170.10 |
| -127400 | 170.50 |
| -127764 | 170.90 |
| -128128 | 171.30 |
| -128492 | 171.70 |
| -128856 | 172.10 |
| -129220 | 172.50 |
| -129584 | 172.90 |
| -129948 | 173.30 |
| -130312 | 173.70 |
| -130676 | 174.10 |
| -131040 | 174.50 |
| -131404 | 174.90 |
| -131768 | 175.30 |
| -132132 | 175.70 |
| -132496 | 176.10 |
| -132860 | 176.50 |
| -133224 | 176.90 |
| -133588 | 177.30 |
| -133952 | 177.70 |
| -134316 | 178.10 |
| -134680 | 178.50 |
| -135044 | 178.90 |
| -135408 | 179.30 |
| -135772 | 179.70 |
| -136136 | 180.10 |
| -136500 | 180.50 |
| -136864 | 180.90 |
| -137228 | 181.30 |
| -137592 | 181.70 |
| -137956 | 182.10 |
| -138320 | 182.50 |
| -138684 | 182.90 |
| -139048 | 183.30 |
| -139412 | 183.70 |
| -139776 | 184.10 |
| -140140 | 184.50 |
| -140504 | 184.90 |
| -140868 | 185.30 |
| -141232 | 185.70 |
| -141596 | 1 |

| DATE | AIRFRAME TIME IN SERVICE | AVIONICS TIME IN SERVICE | DESCRIPTION OF WORK PERFORMED — SIGNATURE & CERTIFICATE NO. OF PERSON PERFORMING WORK | | | | | | | | |
|--|-----------------------------------|-----------------------------------|--|---------|----------|----------------|-----------|--------|----------|-------|--------------|
| 27 Jul 2010 | | | ADJUSTED ANALOG ALT. TO MATCH TEST ALT., NO OTHER ADJ REQ'D AT THIS TIME | | | | | | | | |
| <p>The Altimeter and static system tests required by FAR 91.411 were performed this date and found to comply with FAR 43 Appendix E. Altimeter was tested to <u>25,000</u> feet on <u>27 Jul 2010</u>.</p> <p>Signature <u>[Signature]</u> Precision Avionics Inc. CRS # 001R383K</p> | | | <p>This ATC transponder tests and inspections required by FAR 91.413 were performed this date and found to comply with FAR 43 Appendix F.</p> <p>ATC transponder #1 Make Model <u>GTX-330</u> s/n <u>[blank]</u> #2 Make Model <u>[blank]</u> s/n <u>[blank]</u></p> <p>Details of this inspection are on file at this repair station under WO# <u>11437</u> Date <u>27 Jul 2010</u> Signature <u>[Signature]</u> Certificate <u>3454290</u> Precision Avionics Inc. CRS #001R383K</p> | | | | | | | | |
| <p>N281RM EFD-500 SL-30,</p> <p>1. Remove Garmin GPS-696 handheld and wiring, remove SF-2000 system, fabricate and install antenna blank. Remove DME-451 system, VIR-351 and VHF-251.</p> <p>2. Install ASPEN MFD-500 system, install EWR-50 XM weather receiver with GA-55 XM antenna. Install Garmin SL-30 Nav-Com-Glideslope system driving existing IND-351 and ASPEN EFD-1000.</p> <p>3. Wire existing JPI-FS-450 fuel flow to GNS-530W and complete setup. Replaced inop Autopilot disconnect son alert. 1 hr @ \$100 hr.</p> <p>4. Update EFD-1000 to 2.2.3 software. No Charge</p> <table border="0"> <tr> <td>EFD-500</td> <td>s/n 1521</td> </tr> <tr> <td>EFD-500 config</td> <td>s/n 11086</td> </tr> <tr> <td>EWR-50</td> <td>s/n 1192</td> </tr> <tr> <td>GA-55</td> <td>s/n 87511252</td> </tr> </table> <p>XM ID# J5AHT08A</p> <p style="text-align: right;"><u>[Signature]</u> #2297345</p> | | | | EFD-500 | s/n 1521 | EFD-500 config | s/n 11086 | EWR-50 | s/n 1192 | GA-55 | s/n 87511252 |
| EFD-500 | s/n 1521 | | | | | | | | | | |
| EFD-500 config | s/n 11086 | | | | | | | | | | |
| EWR-50 | s/n 1192 | | | | | | | | | | |
| GA-55 | s/n 87511252 | | | | | | | | | | |
| | | | Precision Avionics CRS # 001R383K | | | | | | | | |

| DATE | AIRFRAME TIME IN SERVICE | AVIONICS TIME IN SERVICE | DESCRIPTION OF WORK PERFORMED— SIGNATURE & CERTIFICATE NO. OF PERSON PERFORMING WORK |
|------|-----------------------------------|-----------------------------------|--|
| | | | <p>7-26-12 Remove GWS-530 W & PMA-7000MS. Installed Garmin GTN-750 NAV-COM-GPS & GMA-35 Audio-Mkr-Intercom. Install AH. preselect AS02-ALTPID-01. Complete FAA 337, ICA, FMS & WED revision. CKOlean # 2297345 Precision Avionics Inc CRS # 001R383K</p> |

O&N AIRCRAFT MODIFICATIONS, INC. SEAMANS AIRPORT 210 WINDSOCK LANE FACTORYVILLE, PA
LOG ID# 6263 21-June-2012 WO# 15892/1 HOBBS 1523.8
N281RM S/N 25-0059 MOONEY M20K

Pg 1 / 1

**** ITEM # 15892-1 FAR 91.411 and 91.413 due. ****

ACTION: Performed the tests and inspections as per FAR 91.411 and 91.413. All results found to comply with Part 43, Appendix E and F.

William L. Miller 6/26/2012
ONFR798K William L. Miller Date

I CERTIFY THAT THE ALTIMETER AND STATIC SYSTEM
TESTS REQUIRED BY FAR 91.411 HAVE BEEN PER-
FORMED PER FAR 43 APPENDIX E. THE ALTIMETER
WAS TESTED TO 20000 FT. DATE: 6/20/2012

STATIC SYSTEM TEST DATE 6/20/2012
SIGNATURE William L. Miller

O & N AIRCRAFT MODIFICATIONS
SEAMANS AIRPORT
FACTORYVILLE PA 18419
CRS ONFR798K

I CERTIFY THAT THE ATC TRANSPONDER TESTS REQUIRED
BY FAR 91.413 HAVE BEEN PERFORMED AND FOUND TO
COMPLY WITH FAR PART 43 APPENDIX F.

DATE: 6-20-2012
SIGNATURE: William L. Miller

O & N AIRCRAFT MODIFICATIONS
SEAMANS AIRPORT
FACTORYVILLE PA 18419
CRS ONFR798K

| DATE | AIRFRAME TIME IN SERVICE | AVIONICS TIME IN SERVICE | DESCRIPTION OF WORK PERFORMED— SIGNATURE & CERTIFICATE NO. OF PERSON PERFORMING WORK |
|---------|-----------------------------------|-----------------------------------|--|
| 7-26-12 | | | Remove GNS-530 W & PMA-7000MS. Installed Garmin GTN-750 NAV-COM-GPS & GMA-35 Audio-Mkr-Intercom. Install AH. preselect AS02-ALTPID-01. Complete FAA 337, ICA, FMS & WEB revision. CKOlean # 2297345 Precision Avionics Inc CRS # 001R383K |

O & N AIRCRAFT MODIFICATIONS, INC.
Seamans Airport, Factoryville, PA 18419
CRS: ONFR798K

ALTIMETER SYSTEM AND ALTITUDE REPORTING EQUIPMENT TESTS AND INSPECTION
IN ACCORDANCE WITH FAR PART 3, APPENDIX E

ALTIMETER MAKE: Garmin MODEL: GTN-750 SN: 12146 DATE: 7/26/2012
WFO #: 15892 CUSTOMER: Mr. F. W. W. W.
A/C MAKE MODEL: Boeing 737 REGISTRATION #: N231KM
DISCREPANCIES REPORTED / FOUND: none

| Test Altitude in Feet | Altimeter | | Encoder Tolerance | Altimeter | | Static System Leak Test | |
|-----------------------------|-----------------------|--------------------|----------------------|------------------------|-----------------------|-------------------------|-----------------------|
| | Tolerance +/- feet | Actual +/- feet | +/-125 feet | Friction (Altitude) | Tolerance +/- feet | Actual +/- feet | Tolerance +/-100 fpm |
| -1,000 | 20 | 0 | +/-50 | 1000 | 70 | 0 | #1 <u>0.00</u> |
| 0 | 20 | 0 | | 2000 | 70 | 0 | #2 <u>0.00</u> |
| 500 | 20 | 0 | | 3000 | 70 | 0 | Emergency |
| 1,000 | 20 | 0 | | 5000 | 70 | 0 | |
| 1,500 | #25 | 0 | | 10000 | 80 | 0 | |
| 2,000 | 30 | 0 | | 15,000 | 90 | 0 | Alt Case Leak Test |
| 3,000 | 30 | 0 | | 20,000 | 100 | 0 | Tolerance +/- 100 fpm |
| 4,000 | 35 | 0 | | 25,000 | 120 | 0 | UH <u>0.00</u> |
| 6,000 | 40 | +10 | | 30,000 | 140 | 0 | RH <u>0.00</u> |
| 8,000 | 60 | +10 | | 35,000 | 160 | 0 | Emergency |
| 10,000 | 80 | 0 | | 40,000 | 180 | 0 | |
| 12,000 | 90 | 0 | | 50,000 | 250 | 0 | |
| 14,000 | 100 | +10 | | Barometric | Scale | +/-25 | After Effect Test |
| 16,000 | 110 | +10 | | Pressure | Error | Feet | |
| 18,000 | 120 | +10 | | Inches Hg | Alt Diff | Actual | |
| 20,000 | 130 | +10 | +/-50 | 28.10 | -1727 | 1725 | Tolerance +/-30 ft |
| 22,000 | 140 | +10 | | 28.50 | -1340 | 1340 | 0.11 |
| 25,000 | 155 | | | 29.00 | -863 | -860 | |
| 30,000 | 180 | | | 29.50 | -392 | -390 | Encoder |
| 35,000 | 205 | | | 29.92 | 0 | 0 | |
| 40,000 | 230 | | | 30.50 | +531 | 525 | Mfg <u>0.00</u> |
| 45,000 | 255 | | | 30.90 | +893 | 890 | P/N <u>0.00</u> |
| 50,000 | 280 | | | 30.99 | +974 | 970 | S/N <u>0.00</u> |

Hysteresis Test:
First Test Point (50% of Maximum Altitude) Tolerance +75 feet: +10 ft
Second Test Point (40% of Maximum Altitude) Tolerance +75 feet: +10 ft

Aircraft System Tests: SP/1 Technician: SP/1
Maintenance Release: W Inspector: W. J. Miller
Logbook Entry: W Date: 7/26/2012

FORM ON004A
10/4/1999

IS AIRPORT 210 WINDSOCK LANE FACTORYVILLE, PA
DBBS 1523.8

Pg 1 / 1

per FAR 91.411 and 91.413. All results found to

ITEM I CERTIFY THAT THE ATC TRANSPONDER TESTS REQUIRED
BY FAR 91.413 HAVE BEEN PERFORMED AND FOUND TO
ER COMPLY WITH FAR PART 43 APPENDIX F.

DATE: 6-20-2012
SIGNATURE: W. J. Miller

O & N AIRCRAFT MODIFICATIONS
SEAMANS AIRPORT
FACTORYVILLE PA 18419
CRS ONFR798K

CRS ONFR798K

Altitude and Static System Certification Form

Date 6-27-14 Owner Philip L. N. 281RM W.O.# 10817 Tech KG

At 29.32Hg A/C Alt reads -30 / -30 At 29.92Hg Test Alt reads -30
At field Elevation A/C Reads 30.10 At field elevation Test alt reads 30.10
30.10

| Check Points | Scale error | Tolerance | Friction | Tolerance | Encoder error | Tolerance |
|--------------|-------------|-----------|----------|-----------|---------------|-----------|
| -1000 | 0 | 20 | X | X | X | X |
| 0 | 0 | 20 | X | X | 0 | 125 |
| 500 | 0 | 20 | X | X | X | X |
| 1000 | 0 | 20 | 10 | 70 | 0 | 125 |
| 1500 | 0 | 25 | X | X | X | X |
| 2000 | 0 | 30 | 10 | 70 | 0 | 125 |
| 3000 | +10 | 30 | 10 | 70 | X | X |
| 4000 | 0 | 35 | X | X | 0 | 125 |
| 6000 | +10 | 40 | X | X | 0 | 125 |
| 8000 | +10 | 60 | X | X | X | X |
| 10000 | +20 | 80 | 30 | 80 | 0 | 125 |
| 12000 | +40 | 90 | X | X | X | X |
| 14000 | +10 | 100 | X | X | 0 | 125 |
| 16000 | +30 | 110 | X | X | X | X |
| 18000 | +30 | 120 | X | X | 0 | 125 |
| 20000 | +30 | 130 | 30 | 100 | X | X |
| 22000 | +30 | 140 | X | X | 0 | 125 |
| 25000 | +30 | 155 | 30 | 120 | X | X |
| 30000 | X | 180 | X | 140 | X | 125 |
| 35000 | | 205 | | 160 | | 125 |

Hysteresis: check point 50% 0 / +10 +/- 75 feet 40% 0 / +10 +/- 75 feet
After effect error no test +/- 30 feet Static system leak rate 0
Case Leak @ 18000 feet -70 +/- 100 feet

| Barometric scale error: | Pressure | inchess of Hg | Altitude Difference (feet) |
|-------------------------|----------|---------------|----------------------------|
| <u>stby</u> | 28.10 | | -1724 |
| <u>-15</u> | 28.50 | | -1340 |
| <u>-7</u> | 29.00 | | -863 |
| <u>-3</u> | 29.50 | | -392 |
| <u>0</u> | 29.92 | | 0 |
| <u>3</u> | 30.50 | | +531 |
| <u>7</u> | 30.90 | | +893 |
| <u>12</u> | 30.99 | | +974 |

This ATC transponder tests and inspections required by FAR 91.413 were performed this date and found to comply with FAR43 Appendix F. 574
ATC transponder #1 Make Model 330 s/n X
#2 Make Model X s/n X
Details of this inspection are on file at this repair station under WO# 12817 Date 6-27-14
Signature CKC Certificate 2297345
Precision Avionics Inc.
CRS #0Q1R383K

ASPEN & STBY
The Altitude and static system tests required by FAR 91 411 were performed this date and found to comply with FAR 43 Appendix E. Altitude was tested to 25000 feet on 6-27-14
Signature CKC
Precision Avionics Inc.
CRS # 0Q1R383K

This ATC transponder tests and inspections required by FAR 91.413 were performed this date and found to comply with FAR43 Appendix F. 674550

ATC transponder #1 Make Model s/n X
#2 Make Model X s/n X

Details of this inspection are on file at this repair station under WO# 13557 Date 8-9-16

Signature CKC Certificate 2297345

Precision Avionics Inc.

CRS #0Q1R383K

ASPEN & STBY

The Altitude and static system tests required by FAR 91 411 were performed this date and found to comply with FAR 43 Appendix E. Altitude was tested to 25000 feet on 8-9-16

Signature CKC

Precision Avionics Inc.

CRS # 0Q1R383K

| | | | |
|------|-----------------------------------|-----------------------------------|---|
| DATE | AIRFRAME TIME IN SERVICE | AVIONICS TIME IN SERVICE | DESCRIPTION OF WORK PERFORMED— SIGNATURE & CERTIFICATE NO. OF PERSON PERFORMING WORK |
|------|-----------------------------------|-----------------------------------|---|

Precision Avionics Inc. Issued 1-1-04 XIII Pg. 2
 OQ1R383K ORIGINAL

Altimeter and Static System Certification Form

Date 6-27-14 Owner Philip N. 251RM W.O.# 12817 Tech KG

At 29.32Hg A/C Alt reads -30/-30 At 29.92Hg Test Alt reads -30
 At field Elevation A/C Reads 30.10 At field elevation Test alt reads 30.10

| Check Points | Scale error | Tolerance | Friction | Tolerance | Encoder error | Tolerance |
|--------------|-------------|-----------|----------|-----------|---------------|-----------|
| -100ft | 0 | 20 | X | X | X | X |
| 0 | 0 | 20 | X | X | X | 125 |
| 500 | 0 | 20 | X | X | X | X |
| 1000 | 0 | 20 | X | 70 | X | 125 |
| 1500 | 0 | 25 | X | X | X | X |
| 2000 | 0 | 30 | X | 70 | X | 125 |
| 3000 | 0 | 30 | X | 70 | X | X |
| 4000 | 0 | 35 | X | X | X | 125 |
| 6000 | 0 | 40 | X | X | X | 125 |
| 8000 | 0 | 60 | X | X | X | X |
| 1000ft | 0 | 80 | X | 80 | X | 125 |
| 1200ft | 0 | 90 | X | X | X | X |
| 1400ft | 0 | 100 | X | X | X | 125 |
| 1600ft | 0 | 110 | X | X | X | X |
| 1800ft | 0 | 120 | X | X | X | 125 |
| 2000ft | 0 | 130 | X | 100 | X | X |
| 2200ft | 0 | 140 | X | X | X | 125 |
| 25000 | 0 | 155 | X | 120 | X | X |
| 30000 | 0 | 180 | X | 140 | X | 125 |
| 35000 | 0 | 205 | X | 160 | X | 125 |

Hysteresis: check point 50% 0 +/- 75 feet 40% 0 +/- 75 feet
 After effect error 0 +/- 30 feet Static system leak rate 0
 Case Leak @ 18000 feet 0 +/- 100 feet

| Barometric scale error: | Pressure | Inchess of Hg | Altitude Difference (feet) |
|-------------------------|----------|---------------|----------------------------|
| | 28.10 | | -1724 |
| | 28.50 | | -1340 |
| | 29.00 | | -863 |
| | 29.50 | | -392 |
| | 29.92 | | 0 |
| | 30.50 | | +531 |
| | 30.90 | | +893 |
| | 30.99 | | +974 |

This ATC transponder tests and inspections required by FAR 91.413 were performed this date and found to comply with FAR 43 Appendix F. 530 s/n X
 ATC transponder #1 Make Model 530 s/n X
 #2 Make Model 530 s/n X
 Details of this inspection are on file at this repair station under WO# 12817 Date 6-27-14
 Signature KG Certificate 2297345
 Precision Avionics Inc.
 CRS #0Q1R383K

FAR 91 411 were performed this date and found to comply with FAR 43 Appendix E. Altimeter was tested to 35000 feet on 6-27-14
 Signature KG
 Precision Avionics Inc.
 CRS # 0Q1R383K

This ATC transponder tests and inspections required by FAR 91.413 were performed this date and found to

| Check Points | Scale error | Tolerance | Friction | Tolerance | Encoder error | Tolerance |
|--------------|-------------|-----------|----------|-----------|---------------|-----------|
| -100ft | 0 | 20 | X | X | X | X |
| 0 | 0 | 20 | X | X | X | 125 |
| 500 | 0 | 20 | X | X | X | X |
| 1000 | 0 | 20 | X | 70 | X | 125 |
| 1500 | 0 | 25 | X | X | X | X |
| 2000 | 0 | 30 | X | 70 | X | 125 |
| 3000 | 0 | 30 | X | 70 | X | X |
| 4000 | 0 | 35 | X | X | X | 125 |
| 6000 | 0 | 40 | X | X | X | 125 |
| 8000 | 0 | 60 | X | X | X | X |
| 1000ft | 0 | 80 | X | 80 | X | 125 |
| 1200ft | 0 | 90 | X | X | X | X |
| 1400ft | 0 | 100 | X | X | X | 125 |
| 1600ft | 0 | 110 | X | X | X | X |
| 1800ft | 0 | 120 | X | X | X | 125 |
| 2000ft | 0 | 130 | X | 100 | X | X |
| 2200ft | 0 | 140 | X | X | X | 125 |
| 25000 | 0 | 155 | X | 120 | X | X |
| 30000 | 0 | 180 | X | 140 | X | 125 |
| 35000 | 0 | 205 | X | 160 | X | 125 |

Hysteresis: check point 50% 0 +/- 75 feet 40% 0 +/- 75 feet
 After effect error 0 +/- 30 feet Static system leak rate 0
 Case Leak @ 18000 feet 0 +/- 100 feet

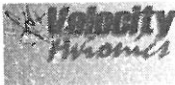
| Barometric scale error: | Pressure | Inchess of Hg | Altitude Difference (feet) |
|-------------------------|----------|---------------|----------------------------|
| | 28.10 | | -1724 |
| | 28.50 | | -1340 |
| | 29.00 | | -863 |
| | 29.50 | | -392 |
| | 29.92 | | 0 |
| | 30.50 | | +531 |
| | 30.90 | | +893 |
| | 30.99 | | +974 |

Altimeter and Static System Certification Form

Date 6-27-14 Owner Philip N. 251RM W.O.# 12817 Tech KG
 At 29.32Hg A/C Alt reads -30/-30 At 29.92Hg Test Alt reads -30
 At field Elevation A/C Reads 30.10 At field elevation Test alt reads 30.10

| DATE | AIRFRAME TIME IN SERVICE | AVIONICS TIME IN SERVICE | DESCRIPTION OF WORK PERFORMED— SIGNATURE & CERTIFICATE NO. OF PERSON PERFORMING WORK |
|----------|-----------------------------------|-----------------------------------|--|
| 9-1-2016 | | | <p>Removed Garmin GTX-330</p> <p>Mode-S transponder. Installed Garmin GTX-345 Mode-S transponder w/ADS-B In-Out-Bluetooth. Used existing Mode-C encoding Altimeter & transponder antenna. Complete FAA-337, I.C.A., F.M.S. & W&B equipment list revision.</p> <p>CK Green # 2297345</p> <p>Precision Avionics Inc CRS # 0Q1R383K</p> <p>This ATC transponder tests and inspections required by FAR 91.413 were performed this date and found to comply with FAR43 Appendix F.</p> <p>ATC transponder #1 Make Model <u>GTX-345</u> s/n <u>3EG002613</u></p> <p>#2 Make Model <u>X</u> s/n <u>X</u></p> <p>Details of this inspection are on file at this repair station under WO# <u>13585</u> Date <u>9-1-16</u></p> <p>Signature <u>CK Green</u> Certificate <u>2297345</u></p> <p>Precision Avionics Inc.</p> <p>CRS #0Q1R383K</p> |

wo: 1236 Avionics - page 1 of 1



Velocity Avionics, LLC. FAA CRS# 2VER931C · 1000 technology Drive, Suite C · Columbia, California 95310 · 8885458399



N281RM **August 17, 2018**

Hobbs: 1943.2

- Installed Flightstream 510 into Existing GTN 750 Pn: 011-02282-00 Sn: 1ZA010511. Installed (1) 011-03595-00 - Flightstream 510, S/N: 402005908.
- Rewire of RS-232 wiring between GTN 750 and GTX 345 to enable remote Transponder control. System is installed as per current GTX 345 Installation Manual. Ensured current software present on all Avionics systems. All systems Ops Check Good.

With respect to the work performed, this aircraft is approved for return to service. Details of work performed are on file with Velocity Avionics, LLC. FAA CRS# 2VER931C under work order: 1236.

William Walker Repair Station Certificate 2VER931C W. R. Walker

| DATE | AIRFRAME TIME IN SERVICE | AVIONICS TIME IN SERVICE | DESCRIPTION OF WORK PERFORMED— SIGNATURE & CERTIFICATE NO. OF PERSON PERFORMING WORK |
|------|---|-----------------------------------|---|
| | <div>wo: 1236</div> <div>24 Month Certified - page 1 of 1</div> <div></div> <div>Velocity Avionics, LLC. FAA CRS# 2VER931C · 1000 technology Drive, Suite C · Columbia, California 95310 · 8885458399</div> <div><div>N281RM</div><div>August 17, 2018</div></div> <div>Hobbs: 1943.2</div> <div>1. Performed 24 Month.</div> <div>Performed 24 Month Test & Inspection of Altimeter and Altitude Reporting System in accordance with CFR's 91.411 & 91.413. System tested to 25,000 ft. Details of work performed are on file with Velocity Avionics, LLC. FAA CRS# 2VER931C under work order: 1236.</div> <div>William Walker FAA Repairman 3884694 </div> | | |

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**AIRFRAME
MAINTENANCE
RECORDS**

AIRFRAME MAINTENANCE RECORDS

Log No. TWO

Aircraft Registration No. N281RM

Aircraft Mfg. MOONEY Model M20K Serial No. 25-0059

Engine Mfg. TCM Model TS10-360-LB1 Serial No. 247127R

Engine Mfg. _____ Model _____ Serial No. _____

Propeller Mfg. McCawley Model 2A34C216 Serial No. 912807

Hub Design No. _____ Hub Serial No. _____

Blade Design No. _____ Blade Serial No's. _____

B100384

B100281

Propeller Mfg. _____ Model _____ Serial No. _____

Hub Design No. _____ Hub Serial No. _____

Blade Design No. _____ Blade Serial No's. _____

(All applicable information must be filled in)



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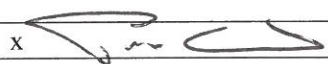
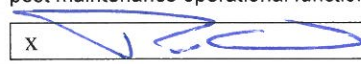
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| DATE | TOTAL TIME IN SERVICE | TACH OR RECORDING METER TIME | DESCRIPTION OF WORK PERFORMED— SIGNATURE & CERTIFICATE NO. OF PERSON PERFORMING WORK | |
|------|-----------------------|------------------------------|---|--|
| | | | Reg. # <u>N281RM</u> Make: <u>Mooney</u> Model: <u>M20K</u> | <i>Taylor Aviation, Inc.</i> 93 Hangar Rd., Montgomery NY 12549 Airframe Date: <u>04/03/2012</u> Tach/Hobbs: _____ Total Time: _____ |
| | | | Verified compliance with the following Airworthiness Directives: AD2011-26-07 on Slick Magnetos does not apply on RH or LH magnetos by serial number inspection. AD2012-02-08 on TCAS Systems does not apply. Equipment not installed on this aircraft AD2012-03-06 on Avstar Fuel Servo Diaphragm does not apply. Affected parts not installed on this aircraft. AD2012-05-09 on Mooney Pitch Trim Assembly. Complied with by inspection per SB M20-313A with no defects noted at this time. | |
| | | | <div style="border: 1px solid black; padding: 5px;"> X  Philip A. Criscenzo A&P / IA 3491550 </div> | |
| | | | Reg. # <u>N281RM</u> Make: <u>Mooney</u> Model: <u>M20K</u> | <i>Taylor Aviation, Inc.</i> 93 Hangar Rd., Montgomery NY 12549 Airframe Date: <u>08/08/2012</u> Tach/Hobbs: <u>1531.4</u> |
| | | | Replaced ELT battery this date with P/N BS2173. Inspected and tested ELT per FAR 91.207 as required. Performed post maintenance function checks with no discrepancies noted. Returned to Service.-----END----- | |
| | | | <div style="border: 1px solid black; padding: 5px;"> X  Philip A. Criscenzo A&P / IA 14344919 </div> | |
| | | | Reg. # <u>N281RM</u> Make: <u>Mooney</u> Model: <u>M20K</u> | <i>Taylor Aviation, Inc.</i> 93 Hangar Rd., Montgomery NY 12549 Airframe Date: <u>09/26/12</u> Tach/Hobbs: <u>1544.1</u> Total Time: <u>3909.4</u> |
| | | | Completed service interval inspection. Serviced engine with 8 qrts. Aeroshell 15W50 oil and CH48108-1 filter. Cut filter and inspected internally / OK. Degreased engine cowlings and belly. Inspected and lubricated engine controls. Adjusted Idle RPM and Mixture settings. Complied with exhaust V-band clamp inspection / torque checks. Replaced RH main tire. Serviced ships battery. Performed cockpit function and maintenance operational inspections with no further discrepancies noted at this time. ----END---- | |
| | | | <div style="border: 1px solid black; padding: 5px;"> X  Philip A. Criscenzo A&P / IA 3491550 </div> | |
| | | | Reg. # <u>N281RM</u> Make: <u>Mooney</u> Model: <u>M20K</u> | <i>Taylor Aviation, Inc.</i> 93 Hangar Rd., Montgomery NY 12549 Airframe Date: <u>03/18/13</u> Tach/Hobbs: <u>1553.1</u> Total Time: <u>3918.4</u> |
| | | | Inspected aircraft in accordance with an Annual Inspection per FAR 43.13 Appendix D and Taylor Aviation Inc. guide. Inspected ELT and tested per FAR 91.207 as required. ELT battery next due replacement August 2014. Verified compliance with Airworthiness Directives through this date with Avantext and Federal Libraries (See Report for Details). AD 76-07-12 on ignition switch accomplished by inspection next due 12 Months/100Hrs. AD 84-26-02 on paper air filter complied with by inspection. Filter due 500 Hr. TIS replacement at 1927.7 Hobbs or earlier as required. AD85-24-03 accomplished with recurring inspection of fuel caps as required per S/B M20-229 with next inspection due in 12 Months/100Hrs. Adjusted aileron gap seals. Cleaned debris from empennage area. Secured loose glare shield seals. Serviced brake reservoir. Replaced worn nutplates and rivnuts securing belly panels as required. Dressed and painted propeller blades. Performed maintenance operational checks with no further discrepancies noted. I CERTIFY THIS AIRCRAFT HAS BEEN INSPECTED IN ACCORDANCE WITH AN ANNUAL INSPECTION AND HAS BEEN DETERMINED TO BE IN AN AIRWORTHY CONDITION. -----END----- | |
| | | | <div style="border: 1px solid black; padding: 5px;"> X  Philip A. Criscenzo A&P / IA 3491550 </div> | |

| DATE | TOTAL TIME IN SERVICE | TACH OR RECORDING METER TIME | DESCRIPTION OF WORK PERFORMED— SIGNATURE & CERTIFICATE NO. OF PERSON PERFORMING WORK | |
|------|-----------------------|------------------------------|---|---|
| | | | Reg. # <u>N281RM</u> Make: <u>Mooney</u> Model: <u>M20K</u> | Taylor Aviation, Inc. 93 Hangar Rd., Montgomery NY 12549 Airframe |
| | | | | Date: <u>05/13/2013</u> Tach/Hobbs: <u>3921.3</u> Total Time: _____ |
| | | | Replaced inoperative ignition switch with direct replacement switch P/N 10-357210-1. Adjusted vacuum regulator to obtain 5hg at cruise power settings. Performed post maintenance operational function checks as required with no further discrepancies noted at this time. -----END----- | |
| | | | X  | Philip A. Criscenzo A&P / IA 3491550 |
| | | | Reg. # <u>N281RM</u> Make: <u>Mooney</u> Model: <u>M20K</u> | Taylor Aviation, Inc. 93 Hangar Rd., Montgomery NY 12549 Airframe |
| | | | | Date: <u>08/30/2013</u> Tach/Hobbs: <u>1601.1</u> Total Time: <u>3966.4</u> |
| | | | Completed service interval inspection. Serviced engine with 8 qrts. Aeroshell 15W50 oil and CH48108-1 filter. Cut filter and inspected internally / OK. Degreased engine cowlings and belly. Inspected and lubricated engine controls. Tightened valve covers. Removed corrosion forming inside oil filler tube and treated with conversion coating. Lubricated control yokes. Secured loose propeller control placard. Troubleshoot inoperative vacuum system. Bypassed faulty standby vacuum system while awaiting parts and placarded standby system inoperative as required. Adjusted Idle RPM and Mixture settings. Performed cockpit function and maintenance operational inspections with no further discrepancies noted at this time. -----END----- | |
| | | | X  | Philip A. Criscenzo A&P / IA 3491550 |
| | | | Reg. # <u>N281RM</u> Make: <u>Mooney</u> Model: <u>M20K</u> | Taylor Aviation, Inc. 93 Hangar Rd., Montgomery NY 12549 Airframe |
| | | | | Date: <u>10/02/2013</u> Tach/Hobbs: <u>1610.5</u> Total Time: _____ |
| | | | Replaced primary vacuum pump with P/N AA3215CC S/N 03GC15 this date. Installed new standby vacuum system pneumatic check valves and replaced vacuum system hoses firewall forward. Performed post maintenance operational function checks as required. -----END----- | |
| | | | X  | Philip A. Criscenzo A&P / IA 3491550 |



Waterbury Oxford Airport KOXC
203-267-6017

288 Christian Street
Oxford, CT 06478

N281RM
SMOH: 306.0

25-0059

April 8, 2014
PSOH: 251.3

Tach: 4013.9 (1648.6)

Inspect aircraft in accordance with Annual inspection checklist outlined in Mooney M20K Maintenance Manual section 5-20 and FAR 43 Appendix D. Drain oil, replace oil filter with AA48-108, fill oil with Aeroshell 15W50. Replace oil drain with new PN 06-00637 quickdrain. Replace alternator with overhauled unit PN ALX-9525B SN H-N090791 overhauled under WO M230000. Replace alternator coupler bushings with new PN 632050. Split turbo for inspection, replace turbo gasket with PN 643932. Replace air filter with new MO-2. Set fuel pressures in accordance with SID97-3E. Replace brake linings with new PN 66-105. Replace mail tires with new Condor 6.00X6. Re seal brake calipers with o ring PN MS28775-224. Replace instrument air filter with new PN D9-10-1 and bonnet filter PN B3-5-1. Complied with SB M20-282-A and SI 102000-1-901 rev.2 by inspection. Complied with AD 85-24-03 water in fuel bays by inspection and replacement of fuel cap o-ring seals PN MS29513-338 and MS29513-010. Test ELT operation in accordance with 91.207(d). Replace ELT battery with new BP1020, next battery replacement due 4/2016. All AD's complied with at this time. Run up and leak check performed, all operational checks satisfactory. This aircraft has been inspected in accordance with an Annual Inspection and has been found to be in airworthy condition.

Christopher S Carman AP28582361A



Umetelw 3174705
4235
phone: (039)

1. Approving National Aviation
Authority/Country:
FAA/UNITED STATES

2.

AUTHORIZED RELEASE CERTIFICATE

3. Form Tracking Number:
H-N090791

4. Organization Name and Address:

FAA Form 8130-3, AIRWORTHINESS APPROVAL TAG

HARTZELL ENGINE TECHNOLOGIES, 2900 SELMA HWY., MONTGOMERY, AL. 36108 (1HZR769B)

5. Work Order/Contract/Invoice
Number: W/O: M230000

| 6. Item: | 7. Description: | 8. Part Number: | 9. Eligibility: * | 10. Quantity: | 11. Serial/Batch Number: | 12. Status/Work: |
|----------|-----------------|-----------------|-------------------|---------------|--------------------------|------------------|
|----------|-----------------|-----------------|-------------------|---------------|--------------------------|------------------|

| | | | | | | |
|---|--|---------------------|-----|---|-----------|------------|
| 1 | ALTERNATOR - OVERHAUL ***** END ***** | ALX-9525B MOD/NO | N/A | 1 | H-N090791 | OVERHAULED |
|---|--|---------------------|-----|---|-----------|------------|

13. Remarks: COPY OF WORK ORDER AVAILABLE ON REQUEST FROM HARTZELL ENGINE TECHNOLOGIES
CERTIFIES THAT THE WORK SPECIFIED IN BLOCK 12/13 WAS CARRIED OUT IN ACCORDANCE
WITH EASA PART 145 AND WITH RESPECT TO THAT WORK THE AIRCRAFT COMPONENT IS
CONSIDERED READY FOR RELEASE TO SERVICE UNDER EASA APPROVAL CERTIFICATE NUMBER
EASA.145.4418 AND BY THE FAA AIR AGENCY CERTIFICATE NUMBER 1HZR769B.
THE ORIG. EQUIP. MFG. DATA APPEARS ON THE DATA PLATE IN THE LINES IDENTIFIED AS MOD/NO & ORIG. MFG.
COMPLIES WITH PPS-9001 LATEST REVISION.
OVERHAULED PER HARTZELL ENGINE TECHNOLOGIES OE-A2 MANUAL DATED 10/1/10

14. Certifies the items identified above were manufactured in conformity to:

19 ☒ 14 CFR 43.9 Return to Service ☒ Other regulation specified in Block 13

- ☐ Approved design data and are in a condition for safe operation.
☐ Non-approved design data specified in Block 13.

Certifies that unless otherwise specified in Block 13, the work identified in Block 12 and described in Block 13 was accomplished in accordance with Title 14, Code of Federal Regulations, part 43 and in respect to that work, the items are approved for return to service.

15. Authorized Signature:

16. Approval/Authorization No.:

20. Authorized Signature:

21. Approval/Certificate No:
1HZR769B

17. Name (Typed or Printed):

18. Date (m/d/y):

22. Name (Typed or Printed):
STACY TOLLNER

23. Date (m/d/y):
SEP 27 2013

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 performs 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.

F.M. FILTERS

Approval No. M25

No. 13625

Batch 1264

P.O. Box 259

Umtentweni

4235

Phone: (039) 3174705

Certificate of Conformity for a Product

This certifies that the product described below conforms to Specification No. DCA/FMF/009 and all revision(s) thereof approved by the Commissioner of Civil Aviation and that it has been determined that it complied with the specification.

ProductAir Filter**Part No.**MO-2**F.M. FILTERS CC**
INSPC NO. FM/1

Chief Inspector

AMC
08-01-14

Alt. Chief Inspector

Lightprint 039 315 5000 FMF 000 15

m Tracking Number:

H-N090791

rk Order/Contract/Invoice
er: W/O: M230000

12. Status/Work:

OVERHAULED

1 specified in Block 13
rk identified in Block 12
with Title 14, Code of
he items are approved for

proval/Certificate No:

1HZR769B

23. Date (m/d/y):

SEP 27 2013

18. Date (m/d/y):

22. Name (Typed or Printed):

STACY TOLLIVER

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 performs 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.

FAA Form 8130-3 (6-01)

*Installer must cross-check eligibility with applicable technical data.

NSN: 0052-00-012-9005

| DATE | TOTAL TIME IN SERVICE | TACH OR RECORDING METER TIME | DESCRIPTION OF WORK PERFORMED— SIGNATURE & CERTIFICATE NO. OF PERSON PERFORMING WORK |
|------|-----------------------|------------------------------|---|
| | | | TOTAL brought forward from previous page |
| | | | <p>Reg. # <u>N281RM</u> <i>Taylor Aviation, Inc.</i> Date: <u>03/14/2014</u> Make: <u>Mooney</u> 93 Hangar Rd., Montgomery NY 12549 Tach/Hobbs: <u>1644.2</u> Model: <u>M20K</u> Airframe Total Time: _____</p> <p>Replaced Guardian Standby Vacuum System dry air pump with factory new FAA/PMA replacement pump Model # AA3215CC S/N 03J005 this date. Performed system operational checks with no discrepancies noted at this time. -----END-----</p> <p>x  Philip A. Criscenzo A&P / IA 3491550</p> |
| | | | <p>Reg. # <u>N281RM</u> <i>Taylor Aviation, Inc.</i> Date: <u>08/12/14</u> Make: <u>Mooney</u> 93 Hangar Rd., Montgomery NY 12549 Tach/Hobbs: <u>1694.7</u> Model: <u>M20K</u> Airframe Log Total Time: <u>4060.0</u></p> <p>Performed service interval inspection. Service engine with 8 Qrts. Aeroshell 15W50 oil and CH48108-1 filter. Cleaned lower oil sump screen. Cut oil filter and inspected with no discrepancies noted. Degreased engine cowlings and belly. Inspected and lubricated engine controls. Verified turbo exhaust V-Band clamp torque values and safety wired. Adjusted Idle RPM and Mixture settings. Serviced tires with air. Inspected and lubricated elevator controls. Removed faulty engine oil quick drain and installed OEM oil sump plug. Removed tension load from engine ignition leads. Secured loose upper flexible engine baffle seal. Dressed nicks from propeller leading edges and painted as face as required. Cleaned nose wheel well and lubricated nose gear as required. Removed corrosion from inside of oil filler cap and treated with conversion coating. Removed contaminated hydraulic fluid from brake system. Flushed brake fluid reservoir, brake lines and components. Repacked brake cylinders. Replaced faulty nylon brake line fitting components as required. Removed and reinstalled brake master cylinders after inspection. Serviced and bled brake hydraulic system. Replaced faulty hardware on belly panels as required. Performed post maintenance operational function checks with no further discrepancies noted at this time. -----END-----</p> <p>x  Philip A. Criscenzo A&P / IA 3491550</p> |



Waterbury Oxford Airport KOXC
203-267-6017

288 Christian Street
Oxford, CT 06478

N281RM 25-0059 April 12, 2015 Hobbs: 1730.6
 TTAF: 4095.9 SMOH: 388.0 PSOH: 333.3

Inspect aircraft in accordance with Annual inspection checklist outlined in Mooney M20K Maintenance Manual section 5-20 and FAR 43 Appendix D. Drain oil, replace oil filter with AA48-108, fill oil with 8 quarts Aeroshell 15W50. Replace front alternator oil seal with new PN 451533 and gasket SA352066. Test ELT operation in accordance with 91.207(d), next battery replacement due 4/2016. All AD's complied with at this time. Run up and leak check performed, all operational checks satisfactory. This aircraft has been inspected in accordance with an Annual Inspection and has been found to be in airworthy condition.

Christopher S Carman AP2858236IA 

SUB-TOTAL this page

TOTAL—Carry forward to next page

| DATE | TOTAL TIME IN SERVICE | TACH OR RECORDING METER TIME | DESCRIPTION OF WORK PERFORMED— SIGNATURE & CERTIFICATE NO. OF PERSON PERFORMING WORK |
|----------|-----------------------|------------------------------|---|
| | | | TOTAL brought forward from previous page |
| 11-09-15 | | 1784.4 | Remove propeller to install new Spinner bulkhead P/N 680032-013. Re-install propeller with new M83248/1-141 O-ring seal and torque propeller bolts to 50 ft lbs. Run-up and leak check performed. Function check satisfactory. <i>Christopher S Carman</i> AP28582361A |



Waterbury Oxford Airport KOXC
203-267-6017

288 Christian Street
Oxford, CT 06478

N281RM

25-0059

June 6, 2016

Hobbs: 1795.0

TTAF: 4160.3

SMOH: 452.4

PSOH: 397.7

Inspect aircraft in accordance with Annual inspection checklist outlined in Mooney M20K Maintenance Manual section 5 and FAR 43 Appendix D. Drain oil, replace oil filter with AA48-108, fill oil with 8 quarts Philips 20W50XC. Open left and right fuel tanks, remove all old sealant and reseal left and right tanks with AC-730 sealant and PRC 09-09-00323 slushing sealer, install new sealed retainers P/N NAS 1437A10, install fuel access panels with AC-730 and new screws P/N AN507-10R. Adjust nose wheel steering in accordance with maintenance manual. Replace nose tire with new Condor 5.00x5 tire and LeakGuard tube. Remove and re install autopilot roll servo P/N KS271A-01 S/N 37621 overhauled by Griffin Avionics under W/O 62790. Set fuel pressures in accordance with SID97-3E. Complied with AD 85-24-03 water in fuel bays by inspection and replacement of fuel cap O-ring seals PN MS29513-338 and MS29513-010. Replace ELT battery with new BP1020, test ELT operation in accordance with 91.207(d), next battery replacement due 6/2018. All AD's complied with at this time. Run up and leak check performed, all operational checks satisfactory. This aircraft has been inspected in accordance with an Annual Inspection and has been found to be in airworthy condition.

Christopher S Carman AP28582361A



Waterbury Oxford Airport KOXC
203-267-6017

288 Christian Street
Oxford, CT 06478

N281RM

25-0059

June 10, 2016

Hobbs: 1795.8

Install new EGT probe P/N M-111 in cylinder 2. Operational checks satisfactory.

Christopher S Carman AP28582361A



Waterbury Oxford Airport KOXC
203-267-6017

288 Christian Street
Oxford, CT 06478

N281RM

25-0059

June 30, 2017

Hobbs: 1864.5

TTAF: 4229.8

SMOH: 521.9

PSOH: 467.2

Inspect aircraft in accordance with Annual inspection checklist outlined in Mooney M20K Maintenance Manual section 5 and FAR 43 Appendix D. Open right fuel tank, reseal rivet near wing walk and right lower outboard fuel panel with AC-730 install fuel access panel. Tighten oil cooler bumper. Complied with AD 85-24-03 water in fuel bays by inspection and replacement of fuel cap O-ring seals with Byutil-338 and Butyl-010. Test ELT operation in accordance with 91.207(d), next battery replacement due 6/2018. All AD's complied with at this time. Run up and leak check performed, all operational checks satisfactory. This aircraft has been inspected in accordance with an Annual Inspection and has been found to be in airworthy condition.

Christopher S Carman AP28582361A

GRIFFIN AVIONICS, INC.
BARNSTABLE MUNICIPAL AIRPORT
HYANNIS, MA 02601

TEL. 508-771-2638
TEL. 508-771-5027

DISC. Roll Servo
P/N KS271A-01
S/N 37621
TECH KRH
DATE 5/6/16
CUSTOMER Philip Leone
A/C MODEL M20
N No. 281RM POS. Roll
REPAIR motor - t-60.H.
OTHER: _____

SERVICABLE PART

DESCRIPTION OF WORK PERFORMED—
NATURE & CERTIFICATE NO. OF PERSON PERFORMING WORK

previous page

propeller to install new Spinner bulkhead
32-013. Re-install propeller with new
-141 O-ring seal and torque propeller
50 ft lbs. Run-up and leak check
Function check Satisfactory.
AP2858236IA

Waterbury Oxford Airport KOXC

288 Christian Street
Oxford, CT 06478

June 6, 2016
SMOH: 452.4

Hobbs: 1795.0
PSOH: 397.7

Annual inspection checklist outlined in Mooney M20K Maintenance Manual section
oil, replace oil filter with AA48-108, fill oil with 8 quarts Philips 20W50XC. Open
old sealant and reseal left and right tanks with AC-730 sealant and PRC 09-09-
sealed retainers P/N NAS 1437A10, install fuel access panels with AC-730 and new
se wheel steering in accordance with maintenance manual. Replace nose tire with
hard tube. Remove and re install autopilot roll servo P/N KS271A-01 S/N 37621
er W/O 62790. Set fuel pressures in accordance with SID97-3E. Complied with
inspection and replacement of fuel cap O-ring seals PN MS29513-338 and
y with new BP1020, test ELT operation in accordance with 91.207(d), next battery
complied with at this time. Run up and leak check performed, all operational
s been inspected in accordance with an Annual Inspection and has been found to be

Christopher S Carman AP2858236IA

Christopher S Carman



Waterbury Oxford Airport KOXC
203-267-6017

288 Christian Street
Oxford, CT 06478

N281RM 25-0059

June 10, 2016

Hobbs: 1795.8

Install new EGT probe P/N M-111 in cylinder 2. Operational checks satisfactory.

Christopher S Carman AP2858236IA

Christopher S Carman



Waterbury Oxford Airport KOXC
203-267-6017

288 Christian Street
Oxford, CT 06478

N281RM 25-0059

June 30, 2017

Hobbs: 1864.5

TTAF: 4229.8


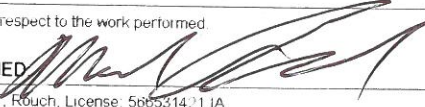

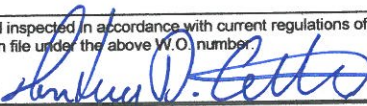
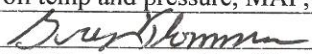
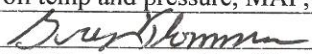
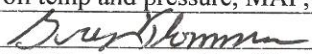
SMOH: 521.9

PSOH: 467.2

Inspect aircraft in accordance with Annual inspection checklist outlined in Mooney M20K Maintenance Manual section
5 and FAR 43 Appendix D. Open right fuel tank, reseal rivet near wing walk and right lower outboard fuel panel with
AC-730 install fuel access panel. Tighten oil cooler bumper. Complied with AD 85-24-03 water in fuel bays by
inspection and replacement of fuel cap O-ring seals with Byutil-338 and Butyl-010. Test ELT operation in accordance
with 91.207(d), next battery replacement due 6/2018. All AD's complied with at this time. Run up and leak check
performed, all operational checks satisfactory. This aircraft has been inspected in accordance with an Annual
Inspection and has been found to be in airworthy condition.

Christopher S Carman AP2858236IA

Christopher S Carman

| DATE | TOTAL TIME IN SERVICE | TACH OR RECORDING METER TIME | DESCRIPTION OF WORK PERFORMED— SIGNATURE & CERTIFICATE NO. OF PERSON PERFORMING WORK | | | | | | | | | | | | | | | |
|---|--|--|---|-----------------------------|--------------------------|-------------------------|------------------------------|---------------------------|--|---|--|--|--|--|--------------------------------|---|--|--|
| TOTAL brought forward from previous page | | | | | | | | | | | | | | | | | | |
| MAKE: Mooney MODEL: M20K S/N: 25-0059 REG NO: 281RM WORK ORDER 6847-11-2017 | |  Top Gun Aviation, Inc. 6100 S. Lindbergh St Stockton, CA 95206 USA Phone: 209-983-8082 | DATE: 1/4/2018 A/C TSN TACH: 1916.1 | | | | | | | | | | | | | | | |
| Airframe Entries | | | | | | | | | | | | | | | | | | |
| (1) Fit and installed left and right clamshell main gear doors, painted to match.... (3) Tightened hardware at flap linkage to bellcrank. Adjusted flap down limit switch to 32.5 deg.... (4) Placarded tach "100 RPM Low". | | | | | | | | | | | | | | | | | | |
| I certify that this AIRCRAFT is airworthy with respect to the work performed. | | | | | | | | | | | | | | | | | | |
| DATE: 1/4/2018 | SIGNED:  Mark T. Rouch, License: 5685314.21 IA | | Work Order: 6847-11-2017 Printed by EBis 3 (datcomedia.com) | | | | | | | | | | | | | | | |
| MAKE: Mooney MODEL: M20K S/N: 25-0059 REG NO. N281RM | |  Cutterbilt Aero Services cutterbilt@gmail.com 707-530-2015 / 702-375-9466 | DATE: 1 JUL 2018 HOBBS: 1932.8 TTSN: 4298.1 Work Order: 2018061701 | | | | | | | | | | | | | | | |
| AIRFRAME ENTRIES | | | | | | | | | | | | | | | | | | |
| I certify that this aircraft has been inspected with an annual inspection using Mooney inspection form 0100 Rev 2007 which meets or exceeds the requirements of FAR 43, Appendix D and was determined to be in airworthy condition. Maintenance was conducted IAW Mooney Service manual MAN134 Rev B. Installed new RA066-10500 brakes linings, checked rotor thicknesses LT .216" and RT .215", lubed wheel bearings with AeroShell 22 grease, and set main tire pressures to 42 PSI and nose tire to 49PSI. Lubed aircraft with AeroShell 6 grease as required by service manual. Topped hydraulic reservoir with MIL-PRF-5606 hydraulic fluid. Performed torque link preload check. Performed gear retraction check and emer gear extension check. Checked shock disc gaps, LT .400", RT .400", and nose at .000", all within limits. Installed new fuel pump switch P/N 930023-017. Checked pitot heat, aux vacuum, and stall warning. Installed new GE-330 landing gear indication lamp. Cleaned gascolator. Installed new ELT battery P/N BP-1020 and tested IAW FAR FAR91.207d. Next battery replacement due AUG 2020. Accomplished AD85-24-03 fuel tank bay inspection. AD research completed. | | | | | | | | | | | | | | | | | | |
| The aircraft, component identified above was repaired and inspected in accordance with current regulations of the Federal Aviation Administration and is approved for return to service. Pertinent details of this repair or inspection are on file under the above W.O. number. | | | | | | | | | | | | | | | | | | |
| DATE: 1 JUL 2018 | SIGNED:  Anthony D. Cutter A&P 3717632 IA | | | | | | | | | | | | | | | | | |
| <table border="1"> <tr> <td>Aircraft Log: N281RM</td> <td>Make: Mooney M20K</td> <td>Ser. No: 25-0059</td> </tr> <tr> <td>Date: August 28, 2018</td> <td colspan="2">Hobbs Time: 1945.5</td> </tr> <tr> <td colspan="3">Replaced JPI700 with JPI830. Same STC, no change in weight and balance. Replaced all EGT and CHT Probes. Added RPM, oil temp and pressure, MAP, and OAT functions</td> </tr> <tr> <td colspan="2">Authorized Signature </td> <td>License No. AIP 3053772</td> </tr> <tr> <td colspan="3">AERO RESOURCES 1000 Technology Dr., Ste. C, Columbia, CA 95310</td> </tr> </table> | | | | Aircraft Log: N281RM | Make: Mooney M20K | Ser. No: 25-0059 | Date: August 28, 2018 | Hobbs Time: 1945.5 | | Replaced JPI700 with JPI830. Same STC, no change in weight and balance. Replaced all EGT and CHT Probes. Added RPM, oil temp and pressure, MAP, and OAT functions | | | Authorized Signature  | | License No. AIP 3053772 | AERO RESOURCES 1000 Technology Dr., Ste. C, Columbia, CA 95310 | | |
| Aircraft Log: N281RM | Make: Mooney M20K | Ser. No: 25-0059 | | | | | | | | | | | | | | | | |
| Date: August 28, 2018 | Hobbs Time: 1945.5 | | | | | | | | | | | | | | | | | |
| Replaced JPI700 with JPI830. Same STC, no change in weight and balance. Replaced all EGT and CHT Probes. Added RPM, oil temp and pressure, MAP, and OAT functions | | | | | | | | | | | | | | | | | | |
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| AERO RESOURCES 1000 Technology Dr., Ste. C, Columbia, CA 95310 | | | | | | | | | | | | | | | | | | |

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