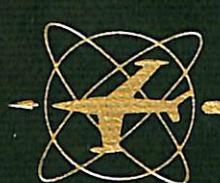


N516BW

516BW
11E 1007

The Standard
 **AIRCRAFT LOG**

ASA-SA-2

YEAR 20	RECORDING TACH TIME	TODAY'S FLIGHT	TOTAL TIME IN SERVICE	Description of Inspections, Tests, Repairs and Alterations Entries must be endorsed with Name, Rating and Certificate Number of Technician or Repair Facility. (See back pages for other specific entries.)
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06/01/2025 N516BW Quartz Mountain Aerospace Inc 11E S/N 1007
ACTT: 491.9 Tach: 491.9 Hobbs: 628.4

1. Inspected airframe IAW manufactures inspection guide and FAR 43, Appendix D
2. Lubricated airframe IAW manufactures serviced instructions
3. Inspected ELT IAW FAR 91.207. Ops check satisfactory. Battery due 09/2029
4. Cleaned and repacked landing gear wheel bearings
5. Complied with AD 2010-11-07 Aileron Pushrod Bearings IAW Quartz Mountain Aerospace Service bulletin No. SB 09-02. Next Due Tach 541.9

I certify that this aircraft has been inspected IAW 100 hour inspection checklist and determined to be airworthy

Andrew Overton A&P 3084998

06/01/2025 N516BW Quartz Mountain Aerospace Inc 11E S/N 1007
ACTT: 491.9 Tach: 491.9 Hobbs: 628.4

1. Removed vacuum driven attitude indicator, p/n RCA22-11F, s/n 25B0081
2. Installed new uAvionix AV-30-C, p/n UAV-1003429-003 s/n 3310721-3310745
3. AV-30-C installed utilizing installation kit p/n 1004091-001 IAW uAvionix AV-30-C installation manual, Revision D and FAR 43-13B practices. Installed new 2 Amp circuit breaker, nylo-seal fittings utilized for the pitot/static interconnect
4. Aircraft W&B changes negligible

I regard to the maintenance performed, this aircraft is determined to be airworthy and return to service
Andrew Overton A&P 3084998

7/23/2025 N516BW Quartz Mountain Aerospace S/N 1007

Tach 540.6 Hobbs 677.1

- 1. Drained engine oil and installed new AA48109 oil filter. Serviced engine with 8 quarts Phillips XC 20w-50 and safety wired.
- 2. Complied with AD 2010-11-07 Aileron Pushrod Bearings IAW Quartz Mountain Aerospace Service bulletin No. SB09-02
- 3. Andrew Overton A&P 3084998

9/17/2025 N516BW Quartz Mountain Aerospace S/N 1007

Tach 579.30 Hobbs 739.5

- 1. Drained engine oil and installed new AA48109 oil filter. Serviced engine with 8 quarts Phillips XC 20w-50 and safety wired.

Blake Munson, Pilot 2852002



West Aviation, Inc.
1945 S CHERRY ST RD
CRESTON, IA 50801
USA

Make: W.Z.D. (Luscombe)
Model: 11E
Tail: N516BW
S/N: 1007

Hours: 584.9 TACH & TT, 745.1 HOBBS

The following work was accomplished on this aircraft N516BW in accordance with the Quartz Mountain Aerospace Maintenance

- 1. Manual & FAR 43, Appendix D:
 - Cleaned entire aircraft and performed 100 hr. inspection.
 - Removed all 3 wheels. Installed a new Goodyear 6.00-6 6 ply Flight Custom III tire on RH main. Repacked all wheel bearings with Aeroshell grease and reinstalled wheels.
 - Installed 2 new Rapco RA66-105 brake pads on LH main.
 - Inflated nose strut to 115 PSI. Inflated all tires to 26 PSI.
 - Installed a new Rapco RA-D-9-18-1 central vacuum filter and a new Rapco RA-B3-5-1 vacuum regulator filter.
 - Installed a new ground strap on RH aileron.
 - Removed, cleaned and reinstalled main fuel strainer screen.
 - Pressure tested both mufflers. Was O.K. at this time.
 - Lubricated airframe. Serviced brakes with MIL 5606 hydraulic fluid.
 - Complied with AD 10-11-07 (Aileron Pushrod Bearings) by lubricating aileron pushrod bearings I/A/W Quartz Mountain Aerospace service bulletin No. SB 09-02. Must relubricate every 50 hours TIS. Next due 634.9 TT.
 - Note: ATC transponder/automatic pressure altitude reporting system test required by FAR 91.413 & 91.217(b) and pitot/static system test required by FAR 91.411 & 43 appendix E were last performed on 05/13/2024 & will be due again 05/2026.
 - Note: For complete AD compliance list see AD compliance manual contained in aircraft records.
 - This aircraft is satisfactory for return to service with respect to the work described herein.

Signed: *Brian West*
Name: BRIAN L. WEST

Cert: AP4316092
Date: 09/25/2025

YEAR 20 DATE	RECORDING TACH TIME	TODAY'S FLIGHT	TOTAL TIME IN SERVICE	Description of Inspections, Tests, Repairs and Alterations Entries must be endorsed with Name, Rating and Certificate Number of Technician or Repair Facility. (See back pages for other specific entries.)
				08/02/2024 N516BW Tach: 299.8 Hobbs:388.3 This Aircraft is now under use for compensation or hire and requires 100 hour inspections IAW FAR 91.409. 100 Hour inspection due 399.8

11/11/2024 N516BW Quartz Mountain Aerospace INC, 11E S/N 1007
ACTT: 388.8 Tach: 383.6 Hobbs: 520.5

1. Inspected airframe IAW manufacturers inspection guide and 100 hour inspection checklist
2. Removed, cleaned, inspect, re-installed fuel screens
3. Lubricated airframe IAW manufacturers serviced instructions
4. Replaced ELT battery with new ACI model E-64 lithium battery pack. Ops Check normal. ELT Battery Due: 11/14/2025
5. Inspected ELT IAW FAR 91.207. Ops check satisfactory
6. Cleaned and repacked landing gear wheel bearings
7. Replaced alternator field terminal wire ring connector. Ops check satisfactory
8. AD 2010-11-07 bv lubrication. Next Due: 12/2025 **438.8**

I certify that this aircraft has been inspected IAW 100 hour inspection checklist and determined to be airworthy

Andrew Overton A&P 3084698



West Aviation, Inc.
1945 S Cherry St Rd
Creston IA 50801

Make: W.Z.D. (Luscombe)
Model: 11E
Tail: N516BW
S/N: 1007

Operations
umber of
ic entries.)

Hours:

396.1 TACH & TT

The following work was accomplished on this aircraft N516BW in accordance with the Quartz Mountain Aerospace Maintenance Manual & FAR 43, Appendix D:

- Cleaned entire aircraft and performed 100 hr. inspection.
- Removed all 3 wheels and repacked wheel bearings with Aeroshell grease. Inflated all tires to 26 PSI. Reinstalled wheels.
- Retorqued both MLG shim bolts to 150 in. lbs.
- Performed ELT function test in accordance with FAR 91.207, ops o.k. ELT battery is due for replacement by 09/23/2029.

- Complied with AD 10-11-07 (Aileron Pushrod Bearings) by lubricating aileron pushrod bearings I/AW Quartz Mountain Aerospace service bulletin No. SB 09-02. Must relubricate every 50 hours TIS. Next due 446.3 TT.

- Pressure tested both mufflers. Was O.K. at this time.
- Lubricated airframe. Serviced brakes and nose strut with MIL 5606 hydraulic fluid. Serviced battery with water.
- Note: ATC transponder/automatic pressure altitude reporting system test required by FAR 91.413 & 91.217(b) and pitot/static system test required by FAR 91.411 & 43 appendix E were last performed on 05/13/2024 & will be due again 05/2026.

Note: For complete AD compliance list see AD compliance manual contained in aircraft records.

This aircraft is satisfactory for return to service with respect to the work described herein.

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

Signed: *Larry L. West*
Name: LARRY L. WEST

Cert: 3074522IA
Date: 12/19/2024

YEAR 20 DATE	RECORDING TACH TIME	TODAY'S FLIGHT	TOTAL TIME IN SERVICE	Description of Inspections, Tests, Repairs and Alterations Entries must be endorsed with Name, Rating and Certificate Number of Technician or Repair Facility. (See back pages for other specific entries.)
May 13, 2024	Tach 270.6	Complete IFR Cert. Fixation To 20,000 FT. Mode S Code: A6 77E7		<p>I certify that the Altimeter and Static System complies with FAR 91.411 and FAR-43 Appendix E Altimeter S/N 451858 Testes To 20,000 FT W.O.# 051324 DATE 5-13-24 Signed <u>Dal Witten</u></p> <p>HAP'S AIR SERVICE, INC. FAA Certified Repair Station CRJR975C</p> <p>Complied with Automatic Pressure Altitude Reporting Equipment and ATC Transponder System Integration Tests in Accordance with FAR 43 Appendix E(c), FAR 91.413 and FAR 91.217(b).</p> <p>W.O.# 051324 DATE 5-13-24 <u>Dal Witten</u> Hap's Air Service CRJR975C Ames Municipal Airport Ames, IA 50010</p> <p>I certify that the Transponder Model 67X-330 complies with FAR 91.413 and S/N 84101302 FAR-43 Appendix F W/O# 051324 DATE 5-13-24 SIGNED <u>Dal Witten</u> AUTHORIZED SIGNATURE FOR HAP'S AIR SERVICE, INC. FAA Certified Repair Station CRJR975C</p>

YEAR 20 ____ DATE	RECORDING TACH TIME	TODAY'S FLIGHT	TOTAL TIME IN SERVICE	Description of Inspections, Tests, Repairs and Alterations Entries must be endorsed with Name, Rating and Certificate Number of Technician or Repair Facility. (See back pages for other specific entries.)
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N516BW

Tach: 243.9

TT: 243.9

Replaced broken fuse holder at alternator on sense wire.

Replaced broken fuse and repaired damaged fuse holder at shunt on copilots wall.

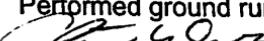
Replaced Lamar VR2000-28-1 voltage regulator with new.

Installed new Alcor EGT probe.

Installed New Flight Custom III 6.00-6 and Michelin Air stop 6.00-6 tube on left and right main wheels.

Replaced burnt out 28V landing light bulb.

Performed ground run. Ops check normal, no abnormalities at this time.


Christopher Welsh A&P 3535396 //

YEAR 20 ____ DATE	RECORDING TACH TIME	TODAY'S FLIGHT	TOTAL TIME IN SERVICE	Description of Inspections, Tests, Repairs and Alterations Entries must be endorsed with Name, Rating and Certificate Number of Technician or Repair Facility. (See back pages for other specific entries.)
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Make: Quartz Blue Mountain

Model: 11E

Serial #: 1007

TRIANGLE AVIONICS LLC

Tach: 244.2

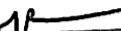
Hobbs: 322.0

Reg #: N516BW

I certify the below transponder(s) has(have) been inspected and found to comply with the requirements and tests required by § 91.413, and found to comply with 14 CFR part 43, appendix F. Data correspondence checked to Field Elevation.

#1 Transponder: Garmin GTX 330 SN: 84101302

The aircraft or component identified was repaired in accordance with current Federal Aviation Administration Regulations and was found airworthy for return to service, with respect to work performed. Details of the work performed are included in work order #1404 on file at Repair Station No. 5R9R534D.

Signed: 
For CRS #5R9R534D

Date: 31/3/2024

YEAR

20

DATE



Glencoe Aviation - 6253 Airport Industrial Blvd - GONZALES, LA 70737 - 225-460-3636

Airframe - page 1 of 1

N516BW
TACH: 225.6

QUARTZ MOUNTAIN AEROSPACE INC, 11E, S/N: 1007

October 22, 2021

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r of
ies.)

1. PERFORMED ANNUAL INSPECTION IN ACCORDANCE WITH FAR 43 APPENDIX D AND QUARTZ MOUNTAIN SERVICE MANUAL. INSPECTED ELT FOUND BATTERY TO BE EXPIRED REMOVED AND REPLACE PN ACKE-04 NEW BATTERY EXPIRES JUNE 2024 INSPECTED ELT IN ACCORDANCE WITH 91.207 D C/W AD 2010-11-07 BY LUBRICATION/INSPECTION DUE AGAIN 275.6 OR NEXT ANNUAL. I CERTIFY THAT THIS AIRFRAME HAS BEEN INSPECTED IN ACCORDANCE WITH AN ANNUAL INSPECTION AND WAS FOUND TO BE IN AIRWORTHY CONDITION AT THIS TIME.

With respect to the work performed, this airframe is approved for return to service. Details of work performed are on file with Glencoe Aviation under work order: GA1563.

Dayne Bounds A/P IA 2782783

wo: GA2109



Airframe - page 1 of 1

Glencoe Aviation - 6253 Airport Industrial Blvd - GONZALES, LA 70737 - 225-460-3636

N516BW
TACH: 231.7

QUARTZ MOUNTAIN AEROSPACE INC, 11E, S/N: 1007

December 06, 2022

PERFORMED ANNUAL INSPECTION IN ACCORDANCE WITH FAR 43 APPENDIX D AND QUARTZ MOUNTAIN SERVICE MANUAL. INSPECTED ELT IN ACCORDANCE WITH 91.207 D BATTERY DUE JUNE 2024 C/W AD 2010-11-07 BY LUBRICATION/INSPECTION DUE AGAIN 281.7 OR NEXT ANNUAL. I CERTIFY THAT THIS AIRFRAME HAS BEEN INSPECTED IN ACCORDANCE WITH AN ANNUAL INSPECTION AND WAS FOUND TO BE IN AIRWORTHY CONDITION AT THIS TIME.

With respect to the work performed, this airframe is approved for return to service. Details of work performed are on file with Glencoe Aviation under work order: GA2109.

Dayne Bounds A/P IA 2782783

YEAR 20 DATE	RECORDING TACH TIME	TODAY'S FLIGHT	TOTAL TIME IN SERVICE	Description of Inspections, Tests, Repairs and Alterations Entries must be endorsed with Name, Rating and Certificate Number of Technician or Repair Facility. (See back pages for other specific entries.)

wo: GA2412

Airframe - page 1 of 1



Glencoe Aviation - 6253 Airport Industrial Blvd - GONZALES, LA 70737 - 225-460-3636

N516BW
TACH: 235.5

QUARTZ MOUNTAIN AEROSPACE INC, 11E, S/N: 1007

November 16, 2023

1. Performed annual inspection IAW with FAR 43 Appendix D and Quartz Mountain MM.
2. Inspected and lubricated flight control surfaces, and flaps with no defects noted.
3. Inspected ELT IAW 91.207 with satisfactory results. Batteries due 7-2024
4. Inspected A/C lighting and found right nav light inop. Removed wingtip and found dirt and trash around connector as well as a tray. Removed light assy, cleaned and repaired connections. All lighting passed with satisfactory results.
5. Jacked A/C and removed MLG wheels. Inspected and lubricated bearings and re-installed in position. Removed NLG to inspect and lubricated bearings, then re-installed. Serviced tire pressure as per POH
6. Complied with AD 2010-11-07 by lubrication - Next due 335.5 or Nov 2024

I CERTIFY THAT THIS AIRFRAME HAS BEEN INSPECTED IN ACCORDANCE WITH AN ANNUAL INSPECTION AND WAS FOUND TO BE IN AIRWORTHY CONDITION AT THIS TIME

With respect to the work performed, this airframe is approved for return to service. Details of work performed are on file with Glencoe Aviation under work order: GA2412.

SYLVIAN HULL A/P 4226802

YEAR

20

DATE

ARAPAHOE AERO

12760 EAST CONTROL TOWER ROAD ENGLEWOOD., COLORADO 80112 (303) 799-8386
N516BW Quartz Mountain Aerospace 11E S/N: 1007 Aircraft Total Time: 0178.6
 20 October 2016 Tach Time: 0178.6 Hobbs Meter: 0234.0

(Page 3 of 3)

Installed new induction air filter, P/N: P611396. Next paper induction air filter replacement due Tach: 678.6. Complied with QMA AD 2010-11-07 (Aileron Rod End Bearings) by inspection and lubrication of rod ends. No defects noted. Next inspection due Tach: 228.6. AD's checked through Biweekly 2016-21. Post inspection ground run-up and systems operational check good. Cleaned aircraft exterior, windscreen, cabin windows, vacuumed seats and interior. **I CERTIFY THAT THIS AIRCRAFT HAS BEEN INSPECTED IN ACCORDANCE WITH AN ANNUAL INSPECTION AND WAS DETERMINED TO BE IN AIRWORTHY CONDITION. END.**

L. John Wells A&P 3221132IA

w/o 35409 / 36669

N516BW

ANNUAL INSPECTION

02-APR-18

Tach: 194.0

Annual Inspection performed this date I/A/W FAR 43 Appendix "D" and Quartz Mountain Service Manual. Lubricate cables, pulleys and hinges. Inspect wheels, wheel bearings and brakes. Inspect lights, pitot heat and stall warning system. Install beacon bulb and right nav light. ELT inspected and tested I/A/W 91.207(D), battery good till: 11/2018. Service intake filter. Remove spinner and inspect prop. Remove fuel flow/egt gauge, repair and reinstall. Repair broken wire at alternator. C/W AD2010-11-07 by lubrication/inspection, due again @ 244.0 tach. All AD's & SB's current and c/w at this time. I certify that this airframe has been inspected I/A/W an annual inspection and was found to be in airworthy condition at this time.

Robert A. Davis Jr.

A&P #3030941 IA.

INS
OFS
(S.)

YEAR

20

DATE

RECORDING
TACH
TIMETODAY'S
FLIGHTTOTAL
TIME IN
SERVICE

Description of Inspections, Tests, Repairs and Alterations
 Entries must be endorsed with Name, Rating and Certificate Number of Technician or Repair Facility. (See back pages for other specific entries.)

Date: 09/18/2019 Hours: 203.7 HOBBS

Tail#: N516BW

Make: QUARTZ MOUNTAIN Model: 11E

S/N: 1007

N516BW SN 1007

PERFORMED ANNUAL INSPECTION IN ACORDANCE WITH FAR 43 APPENDIX D AND QUARTZ MOUNTAIN SERVICE MANUAL. INSPECTED ELT FOUND BATTERY TO BE EXPIRED REMOVED AND REPLACE PN ACKE-04 NEW BATTERY EXPIRES JUNE 2024 INSPECTED ELT IN ACCORDANCE WITH 91.207 D C/W AD 2010-11-07 BY LUBRICATION/INSPECTION DUE AGAIN 253.7 OR NEXT ANNUAL. ICERTIFY THAT THIS AIRFAME HAS BEEN INSPECTED IN ACCORDANCE WITH AN ANNUAL INSPECTION AND WAS FOUND TO BE IN AIRWORTHY CONDITION AT THIS TIME.

Name: DAYNE BOUNDS

Co:

Cert: 2782783

Sign:

YEAR	RECORDING	TODAY'S	TOTAL	Description of Inspections, Tests, Repairs and Alterations
20 DATE 20 20 October 2016	ARAPAHOE AERO 12760 EAST CONTROL TOWER ROAD ENGLEWOOD., COLORADO 80112 (303) 799-8386 N516BW Quartz Mountain Aerospace 11E S/N: 1007 Aircraft Total Time: 0178.6 Tach Time: 0178.6 Hobbs Meter: 0234.0 100 Hour / Annual Inspection completed this date using the Quartz Mountain Aerospace 11E Maintenance Manual Inspection Form as a guide. Due to damage to engine mount cradle and lower section of firewall, removed firewall assembly from aircraft. Removed damaged skin at lower left fuselage at firewall flange. Fabricated new skin and riveted into place. Primed and painted repaired area as needed. Installed factory new firewall / engine cradle assembly. Sealed firewall using CS5306B1/2 sealant. Fuselage skin repair completed using standard practices as outlined in AC43-13 1B, Chapter 4. FAA Form 337 submitted. Removed ACK E0-1 ELT and installed ACK E0-4 406 ELT. Tested ELT per FAR 91.207(d) using WS Technologies beacon measurement equipment, no defects noted, Beacon Test Report No. BT100AVtriple/3195/N516BW-5-3-16-1, dated 03 May 2016 on file. ELT battery replacement due November 2018. Installed new buzzer battery P/N: CR2. Next buzzer battery replacement due October 2020. Installed new ELT remote arming switch battery P/N: PX28LB. ELT remote arming switch battery due March 2019. Installed new vacuum regulator filter P/N: ARB3-5-1 and new central gyro filter P/N: D9-18-1. Next regulator filter replacement due October 2017 or Tach: 278.6. Next central instrument filter replacement due Tach: 678.6. Removed and replaced all vacuum hoses. Placed into service, charged and installed new Gill G247 aircraft battery S/N: G02786730. Torqued wing strut and wing bolts as needed. Trimmed and deburred lower left flap skin at middle hinge arm. Repaired wire in wing root for the right navigation lamp. Repaired wire in wing root for pitot heat. Rigged aileron and flap cables as needed and installed new turnbuckle clips. Lubricated pulley, adjusted tension and safetied left aileron cable guide pulley mounting bolt assembly-operational check satisfactory. Adjusted pitch trim indicator pot as needed. Torqued horizontal stabilizer and elevator hardware. Installed factory new nose strut assembly, P/N: 11-35102-501A. Adjusted steering rod as needed. Installed new nose wheel bearings P/N: 08125-20629 and races P/N: 08231-20629. Installed new right main wheel bearings P/N: 13889-20629 and races P/N: 13836-20629. HeliCoiled one screw hole in each main wheel for hubcap retaining screws. Lubricated parking brake cable assembly. Adjusted control on parking brake valve. Bled brakes and services reservoir. Cleaned and lubricated caliper guide pins.	(Continued)	(Page 1 of 3)	

YEAR	RECORDING	TODAY'S	TOTAL	Description of Inspections, Tests, Repairs and Alterations
20 DATE 20 20 October 2016	ARAPAHOE AERO 12760 EAST CONTROL TOWER ROAD ENGLEWOOD., COLORADO 80112 (303) 799-8386 N516BW Quartz Mountain Aerospace 11E S/N: 1007 Aircraft Total Time: 0178.6 Tach Time: 0178.6 Hobbs Meter: 0234.0 (Page 2 of 3)	Capped and stowed one non-factory wire at upper left terminal block. Installed new section of fuel vapor return line hose in left wing root. Installed new VOR antenna coax connector at forward diplexer. Installed washers and new nuts on aft wing spar fittings, torqued to standard. Installed new right elevator static wick P/N: SW10-96. Cleaned and painted affected area of elevator bellcrank lower arm. Cleaned excessive grease on elevator and rudder hinge points. Cleaned aircraft belly of all insulation and debris. Inspected, cleaned, sealed, and safetied fuel strainer. Torqued fuel strainer fittings as needed. Removed right fuel reservoir, pressure tested, leak check good. Sealed fittings as needed. Installed left wing tip light module retainer P/N: 19-170052-009. Installed left aileron static wick P/N: SW10-96 with new rivets. Installed two new rivets in cabin sub-floor at co-pilot rudder pedals. Installed Adel clamp for wiring harness in front floor. Installed new left and right fuel drain P/N: S2020-2, in wings. Removed left main fuel line in headliner, cut off damaged area and formed new bead. Installed new left fuel cap lanyard as needed. Removed fuel level sensors and exercised through full range of motion. Reinstalled using new gaskets. Operational checks satisfactory. Replaced all fuel hoses in wing roots as needed. Reinstalled line as needed. Tightened right fuel sending unit center post nut. Straightened rudder pedal bellcrank and reinstalled using original hardware and new safeties. Fabricated and installed new cowl mounted landing and taxi light brackets. Trimmed lower cowling as needed to fit new nose strut installation. Primed and painted windshield lower retainer. Applied sealant as needed. Touched up paint on all remaining rivets on perimeter of firewall/ fuselage. Installed relief in lower cowling panel to prevent contact with nose strut structure. Painted as needed. Installed new cowling chafe strip on forward fuselage flange. Installed new Camlock fasteners in cowling as needed. Completed weighing of aircraft. Unusable fuel only onboard.. Final reading Left Main: 611 lbs, Right Main: 629 lbs, Nose: 371 lbs. Total weight 1611.0, Arm: 81.30, Moment: 130971.01. Printed new Weight and Balance sheet. Generated and printed new Equipment List and incorporated into aircraft records.	(Continued)	(Page 2 of 3)

YEAR 20 DATE	RECORDING TACH TIME	TODAY'S FLIGHT	TOTAL TIME IN SERVICE	Description of Inspections, Tests, Repairs and Alterations
				Entries must be endorsed with Name, Rating and Certificate Number of Technician or Repair Facility. (See back pages for other specific entries.)

ARAPAHOE AERO AVIONICS

12780 E. Control Tower Road K6 Englewood CO 80112 303.799.6289

N516BW Quartz Mountain Aerospace Inc. 11E sn: 1007 September 7, 2016

Hobbs: 234.9 Tach: 177.5

United Instruments Altimeter 5934-3 sn: 541858 has been repaired and inspected per FAR 91.411 Part 43 Appendix E to 20K' by Centennial Instruments Inc. on their WO # 10371 dated September 7, 2016 . See their 8130-3 issued this date. Sandia SAE5-35 Encoder tested, no adjustment required. Aircraft's Pitot and Static systems have been tested per FAR Part 43 Appendix E. The aircraft and/or component identified above has been inspected in accordance with current Federal Aviation Regulations and is approved for return to service.

CRS ZL6R006Y Signed: 

AV-03701

ARAPAHOE AERO AVIONICS

12780 E. Control Tower Road K6 Englewood CO 80112 303-799-6289

N516BW Quarts Mountain Aerospace Inc. 11E sn: 1007 September 7, 2016

Hobbs: 234.9 Tach: 177.5

The ATC Transponder test and inspection required by FAR 91.413 has been complied with this date: September 7, 2016 on Garmin GTX-330 011-00455-00 sn: 84101302 and found to comply with FAR Part 43 Appendix F. Details of this test and inspection are on file at this Repair Station on our WO # AV-03701. The aircraft and/or component identified above has been inspected in accordance with current Federal Aviation Regulations and is approved for return to service.

CRS-ZL6R006Y Signed: 

AV-03701

YEAR 20 DATE	RECORDING TACH TIME	TODAY'S FLIGHT	TOTAL TIME IN SERVICE	Description of Inspections, Tests, Repairs and Alterations
				Entries must be endorsed with Name, Rating and Certificate Number of Technician or Repair Facility. (See back pages for other specific entries.)

ARAPAHOE AERO AVIONICS

12780 E. Control Tower Road K6 Englewood CO 80112 303.799.6289

N516BW Quartz Mountain Aerospace 11E sn: 1007 September 13, 2016

Hobbs: 234.9

GNS 430W 011-01060-40 sn: 97139149 (#1)

Upgraded MAIN Software to Version 3.20 and GPS Software to Version3.2 per Garmin Software Service Bulletin No. 0848 Rev B dated March 20, 2008. Upgraded MAIN Software to Version 3.30 per Garmin Software Service Bulletin No. 0918 Rev A dated August 4, 2009. Upgraded MAIN Software to Version 5.20 per Garmin Service Bulletin No. 1461 Rev A dated November 24, 2014 in accordance with Garmin STC Service Bulletin No. 1474 Rev A dated November 24, 2014. Upgraded GPS Software to Version 5.0 per Garmin Service Bulletin 1317 Rev A dated April 30, 2013. Upgraded MAIN Software to Version 5.30 per Garmin Service Bulletin No. 1606 Rev A dated February 15, 2016 in accordance with Garmin STC Service Bulletin No. 1618 Rev A dated march 10, 2016. GNS 430W 011-01060-40 sn: 97124877 (#2)

Upgraded MAIN Software to Version 5.20 per Garmin Service Bulletin No. 1461 Rev A dated November 24, 2014 in accordance with Garmin STC Service Bulletin No. 1474 Rev A dated November 24, 2014.

Upgraded GPS Software to Version 5.0 per Garmin Service Bulletin 1317 Rev A dated April 30, 2013.

Upgraded MAIN Software to Version 5.30 per Garmin Service Bulletin No. 1606 Rev A dated February 15, 2016 in accordance with Garmin STC Service Bulletin No. 1618 Rev A dated march 10, 2016.

New FAA Approved Flight Manual Supplement for the GNS 430W (Garmin Document 190-00356-03 Rev E dated November 24, 2014, and Instructions for Continued Airworthiness 190-00356-65 Rev D have been added to aircraft's POH.

The aircraft and/or component identified above has been inspected in accordance with current Federal Aviation Regulations and is approved for return to service.

CRS ZL6R006Y Signed: 

AV-03704

YEAR 20 ____ DATE	RECORDING TACH TIME	TODAY'S FLIGHT	TOTAL TIME IN SERVICE	Description of Inspections, Tests, Repairs and Alterations Entries must be endorsed with Name, Rating and Certificate Number of Technician or Repair Facility. (See back pages for other specific entries.)
4/30/09	145.9	145.9		1.) C/W 50hr checklist as per QMA checklist Amm-11E-1 2.) R+R Fuel Flow / EGT Gauge S/N 030 w/ S/N 026.
				<i>Mark Gun</i> ^{IA} 3170123

YEAR 20 ____ DATE	RECORDING TACH	TODAY'S FLIGHT	TOTAL TIME IN	Description of Inspections, Tests, Repairs and Alterations Entries must be endorsed with Name, Rating and Certificate Number of Technician or Repair Facility. (See back pages for other specific entries.)
			March 29, 2011	Log Book Entry Quartz Mountain 11E N516BW Serial # 1007 Tach 160.2 hrs S/N
				Replaced Wheel Bearing R/Main Landing Gear Part # 1386-20629, Dress Propeller, Lubricate Aircraft, Inspect all Pulleys & Cables, Installed Chafe Strip Around Engine Cowling. Checked AD's through 6/15/2011.

I Certify that I have Inspected this Aircraft in
Accordance with an Annual Inspection using
Quartz Mountain Maintenance Manual and
Current Federal Aviation Administration
Regulations and have determined it to be in
An Airworthy Condition.

John J. Wukosky ^{IA}
John J. Wukosky IA3199470

YEAR 20 ____ DATE	RECORDING TACH TIME	TODAY'S FLIGHT	TOTAL TIME IN SERVICE	Description of Inspections, Tests, Repairs and Alterations Entries must be endorsed with Name, Rating and Certificate Number of Technician or Repair Facility. (See back pages for other specific entries.)
2/27/09	80.0	80.0		1) Repaired Alternator out fuse holder by Soldering wires 2) Replaced Console RT Side Cover Panel Mark Clev IA 3/7/0123
3/2/09	83.6	83.6		1) R+R EGT/ fuel flow gauge removed # 017 INSTALLED # 030 Mark Clev IA 3/7/0123

YEAR 20 ____ DATE	RECORDING TACH TIME	TODAY'S FLIGHT	TOTAL TIME IN SERVICE	Description of Inspections, Tests, Repairs and Alterations Entries must be endorsed with Name, Rating and Certificate Number of Technician or Repair Facility. (See back pages for other specific entries.)
3/10/09	98.0		98.0	1) C/W Far 91.207(1) E1+ 1NSP. Next bat Replacement 3/2014 2.) R+R Voltage Regulator P/N VR2000-28- 1 Ser# 1042699
				I certify that this Airframe has been inspected in accordance w/ a 1000 hr inspection per GMA Checklist and was determined to be in an airworthy condition.
3/23/09	116.2			1) Replaced Co-pilot's window latch bracket P/N 11-10008-4 Mark Clev IA 3/7/0123

YEAR 20 DATE	RECORDING TACH TIME	TODAY'S FLIGHT	TOTAL TIME IN SERVICE	Description of Inspections, Tests, Repairs and Alterations Entries must be endorsed with Name, Rating and Certificate Number of Technician or Repair Facility. (See back pages for other specific entries.)
1/29/09	46.8	46.8		<p>1.) C/W QMA 50 hr checklist AMM-11E-1</p> <p>2) Replaced Springs + hardware for LT. Muffler Ball Joint</p> <p>3) Tighten Headset / mic Joints</p> <p>Mark Clu IA 3170123</p>
2/2/09	51.6			<p>1.) Replaced throttle bracket w/ QMA New improved bracket P/N 11-63105-4+-5</p> <p>Mark Clu IA 3170123</p>

YEAR 20 DATE	RECORDING TACH TIME	TODAY'S FLIGHT	TOTAL TIME IN SERVICE	Description of Inspections, Tests, Repairs and Alterations Entries must be endorsed with Name, Rating and Certificate Number of Technician or Repair Facility. (See back pages for other specific entries.)
2/3/09	52.1		52.1	<p>1) Replace Taxi Light Brackets w/ new Brackets</p> <p>2) Replaced Taxi Lamp GE4587</p> <p>Mark Clu IA 3170123</p>
2/11/09	64.4			<p>1.) R+R EGT/Fuel flow indicator S/N 038 + Replace w/ S/N 017</p> <p>Mark Clu IA 3170123</p>
2/20/09	71.4			<p>1.) Tightened Antennae Post + charge battery</p> <p>Mark Clu IA 3170123</p>
2/23/09	73.3		73.3	<p>1) Adjusted Aileron cable Tensions Per QMA Maintenance Manual Section 27.10 Page 9 Para G 1-15</p> <p>2) Safety Turbulence.</p> <p>Mark Clu IA 3170123</p>

YEAR 20 DATE	RECORDING TACH TIME	TODAY'S FLIGHT	TOTAL TIME IN SERVICE	Description of Inspections, Tests, Repairs and Alterations Entries must be endorsed with Name, Rating and Certificate Number of Technician or Repair Facility. (See back pages for other specific entries.)
1/10/09	29.0			<p>1.) Lubed flight controls per M/M Section 12.20</p> <p>2.) Inspected air/oil separator and breather for Blockage or Sludge buildup found oil</p> <p>Mark Ohr JA 3/17/0123</p>
1/16/09	29.1			<p>1.) Installed Halon Fire extinguisher per QMA drawing</p> <p>2.) Weight + balance and equipment list updated.</p> <p>Mark Ohr JA 3/17/0123</p>
1/23/09	35.7			<p>1.) rerouted breather line per QMA instructions. Per Gary P QMA engineer</p> <p>Mark Ohr JA 3/17/0123</p>
1/26/09	43.7			<p>1.) Removed Fuel quantity gauge P/N 563-392 S/N 023 and replaced w/ Fuel quantity gauge P/N 563-392 S/N 013</p> <p>Mark Ohr JA 3/17/0123</p>

YEAR 20 DATE	RECORDING TACH TIME	TODAY'S FLIGHT	TOTAL TIME IN SERVICE	Description of Inspections, Tests, Repairs and Alterations
				Entries must be endorsed with Name, Rating and Certificate Number of Technician or Repair Facility. (See back pages for other specific entries.)

Rose Aircraft Services, Inc.
P. O. Box 1850
Mena, Arkansas 71953
(479) 394-2551

Make: Quartz Mountain Aerospace Inc.
Model: 11E Hobbs: 10.7
Reg. Number: N707QM S/N: 1007
Work Order Number: 11936

The registration number was changed to N516BW, Temporary number N707QM installed for delivery. Color change of stripes (to fuselage & rudder only). Applied a base of Sherwin/Williams Jet Glo Matterhorn White 570-535. Applied a Two-color paint scheme, per customer specifications, using Acry Glo Red (WO5831), and Acry Glo Black (01955) polyurethane paint. All exterior surface preparations, paint applications, Rudder removal and installation, and detail tasks were performed in accordance with the Luscombe aircraft Design Engineering – Manufacturing Specification LAPS 1010, LAPS 1012, LAPS 1057, LAPS 1099, LAPS 1000, LAPS 1101, and Quartz Mountain QMAPS 1212. The required flight control (rudder) was balanced in accordance with QMAPS 1212.

Date: 13 Aug, 2007 Steven R. Crawford Steven R. Crawford A&P 3221543

YEAR 20 DATE	RECORDING TACH TIME	TODAY'S FLIGHT	TOTAL TIME IN SERVICE	Description of Inspections, Tests, Repairs and Alterations
11/21/08			TACH 28.1	1) Installed missing "static port keep clean" placards in locations given in QMA Maintenance Manual Chapter 11 Page 1 Mark Ch 1A 3170123
12/1/08	29.8		29.8	1) Resealed Skylights per QMA Maintenance Manual Chapter 56 Section 56.10 para D (2) Mark Ch 1A 3170123

YEAR 20 DATE	RECORDING TACH TIME	TODAY'S FLIGHT	TOTAL TIME IN SERVICE	Description of Inspections, Tests, Repairs and Alterations Entries must be endorsed with Name, Rating and Certificate Number of Technician or Repair Facility. (See back pages for other specific entries.)

I hereby certify that the ELT functional check was completed on
April 7, 2008 in reference to FAR 91.207.

Signed: 
QUARTZ MOUNTAIN AEROSPACE

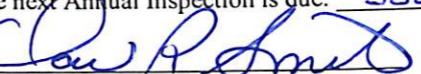
It is hereby certified that this aircraft was manufactured in compliance with TCDS A-804 Revision 17 dated March 14, 2008; been flight tested in accordance with QMAPS 1210 Production Flight Test Requirements and found to meet those requirements on June 19, 2008. Also, all applicable Airworthiness Directives have been complied with and a list is being provided with the aircraft. Records of these action(s) are on file @ QMA under data file 1007. ELT functional check was completed on November 5, 2007 in reference to FAR 91.207.

Date: June 25, 2008

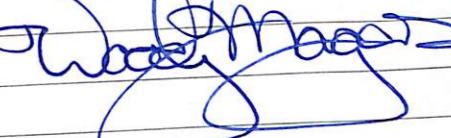
By: 

YEAR 20 DATE	RECORDING TACH TIME	TODAY'S FLIGHT	TOTAL TIME IN SERVICE	Description of Inspections, Tests, Repairs and Alterations Entries must be endorsed with Name, Rating and Certificate Number of Technician or Repair Facility. (See back pages for other specific entries.)

I find that this aircraft meets the requirements for the
Certification Requested and have issued a Standard Normal
Airworthiness Certificate Dated 7-25-2008
The next Annual Inspection is due: July 2009


Samuel J. Powlen, ASI SW-MIDO-41
DAVID R SMITH

AIRFRAME HOURS
TACH - 6.7
HOBBS - 8.2
06-25-2008



YEAR 20 _____ DATE	TOTAL TIME IN SERVICE	Current Weight and Balance Information			
		Empty Weight	Empty CG	Useful Load	Remarks
		<p>This aircraft will be maintained in accordance with the requirements defined in 14 CFR Subpart E as applicable and Part 43 for continuing airworthiness/maintenance and airworthiness of the aircraft. Also, the aircraft engine and propeller will be maintained in accordance with the manufacturers recommendations - AMM-11E-1 Rev. N/C dated August 24, 2007. Also, 14 CFR Part 39 Airworthiness Directives will be complied with and recorded in the maintenance logs for the aircraft; engine or propeller.</p> <p>I find this aircraft meets the requirements for a airworthiness certificate for the purpose of <u>Research & Development</u>, and have issued a special airworthiness certificate and operating limitations dated <u>April 16, 2008</u>. The next condition inspection is due at each flight.</p>			
		<p><i>Richard Simmons</i></p> <p>Richard Simmons DARF705006SW April 16, 2008</p>			

YEAR 20 DATE	TOTAL TIME IN SERVICE	Current Weight and Balance Information			
		Empty Weight	Empty CG	Useful Load	Remarks
<p>I CERTIFY THAT THIS TRANSPONDER MAKE: <u>Garmin</u> MODEL: <u>GTX 330</u>, S/N: <u>84126452</u> AS INSTALLED IN THIS AIRCRAFT HAS BEEN TESTED AS REQUIRED BY FAR 91.413 IN ACCORDANCE WITH FAR 43 APPENDIX "F" ON THIS DATE: <u>June 25, 2008</u> PERTINENT DETAILS OF THE TEST ARE ON FILE AT QUARTZ MOUNTAIN AEROSPACE UNDER WORK ORDER <u>1007</u>.</p> <p>DATE: <u>June 25, 2008</u></p> <p>SIGNED:  QUARTZ MOUNTAIN AEROSPACE</p>					
<p>I CERTIFY THAT THE ALTIMETER AND STATIC SYSTEMS TEST AS REQUIRED BY FAR 91.411 HAVE BEEN PERFORMED IN ACCORDANCE WITH FAR 43 APPENDIX "E". THE ALTIMETER WAS TESTED ON <u>June 25, 2008</u>. PERTINENT DETAILS OF THE TEST ARE ON FILE AT QUARTZ MOUNTAIN AEROSPACE UNDER WORK ORDER <u>1007</u>.</p> <p>DATE: <u>June 25, 2008</u></p> <p>SIGNED:  QUARTZ MOUNTAIN AEROSPACE</p>					

Aircraft Record General Information

Manufacturer QUARTZ MOUNTAIN AEROSPACE Model 11E

Serial 1007

Registration Number N707QM
N516BW

Date of Manufacture

Engine(s) currently installed:

Manufacturer TELEDYNE Model IO-360-ES Serial 360340

Manufacturer Model Serial

Propeller(s) currently installed:

Manufacturer SENSENICH Model 76EC8-0-66/S/N-100011K

HUB Model Serial Serial

Blade Model Serial Serial Serial Serial

Blade Model Serial Serial Serial Serial