

#3



**AIRFRAME
MAINTENANCE
RECORDS**

Registration No. N789UP

Serial No. 414A0495



AIRFRAME MAINTENANCE RECORDS

Log No. 3

Aircraft Registration No. N789UP

Model C-414A

Serial No. 414A0495

DATE	TOTAL TIME IN SERVICE	TOTAL TIME SINCE OVERHAUL	TACH OR RECORDING METER TIME	DESCRIPTION OF WORK PERFORMED— SIGNATURE & CERTIFICATE NO. OF PERSON PERFORMING WORK
				TOTALS brought forward from previous page

*****MUNCIE AVIATION COMPANY C.R.S. # AJVR135C*****

Deleted locked waypoints Upgraded GNS 530W software to version 5.03 per Garmin SB 1317, Rev. A. Crossfill function checked good. All other software is current. Added revised GNS530W AFMS to POH.

Make: Cessna Ser. No.: 414A-0495
Model: 414A Reg. Mark: N789UP

The aircraft / component identified above was repaired and inspected in accordance with current Regulations of the Federal Aviation Administration and found airworthy, and is approved for return to service for work performed.

Pertinent details of the repair are on file at the Agency. Work Order No. A001358, Date 12-02-13

Signed: [Signature] Inspector for

MUNCIE AVIATION COMPANY C.R.S. #AJVR135C

MUNCIE, IN 47303-9778 (765) 289-7141

Aircraft Hobbs: 2017.8

PLEASE PLACE IN AIRCRAFT LOGBOOK



*****MUNCIE AVIATION COMPANY C.R.S. # AJVR135C*****

I certify that the altimeter / static system, transponder, and encoder have been tested as required by FAR 91.217, 91.411, and 91.413. Units were found to comply with the limits set in FAR 43, Appendices E & F and AC 43.6C to 30,000 ft. Aircraft Hobbs: 2017.8

Altimeter #1: Mfg A.R.C. P/N 42540-6129 S/N 9869

Altimeter #2: Mfg United P/N 5934PA-1 S/N T4556

Encoder #1: Mfg A.R.C. Model EA-401A S/N 9869

Encoder #2: Mfg Shadin Model 8800T S/N T8435

Trans #1: Mfg Garmin Model GTX 330 S/N 84109925

Trans #2: Mfg Garmin Model GTX 327 S/N 63716408

Details of the inspection are on file at this C.R.S. under W.O. No. A001358

Date 12-02-13 Signature: [Signature]



CERTIFIED REPAIR STATION # AJVR135C

MUNCIE AVIATION COMPANY MUNCIE, INDIANA 47303-9778

PLEASE PLACE IN AIRFRAME LOGBOOK

6110114 HM 2048.4 C/W A.D. 2000-01-16, 2115/2000, by inspecting
The LT and RT engine exhaust IAW Part (b) - Next due at 2098.4

I certify that this work described above has been inspected and is determined to be in an airworthy condition with respect to the work performed. Pertinent details are on file at this agency under W.O. # R7738 Date 06/10/2014

Hobbs: 2048.4 Signed: [Signature]

SYNERGY FLIGHT CENTER LLC Central Illinois Regional Airport, Bloomington, IL 61704

FAA Approved Repair Station # 8SGR199C

MR-1

SUB-TOTALS this page

TOTALS—Carry forward to next page

ALTIMETER SCALE ERROR

CUSTOMER: *Hileman Aviation*

N# *789 UP*

DATE: *12/02/2013*

ALTIMETER TYPE: *United PN 5934PA-1 SN T4536*

Test Point (FT)	Indicated (FT)	Test Point (FT)	Indicated (FT)	Test Point (FT)	Indicated (FT)
-1000	-1,000	6000	6,010	22000	22,010
0	0	8000	8,020	25000	24,990
500	500	10000	10,025	30000	29,975
1000	1,000	12000	12,040	35000	N/A
1500	1,515	14000	14,045	40000	N/A
2000	2,015	16000	16,040	45000	N/A
3000	3,020	18000	18,025	50000	N/A
4000	4,010	20000	20,025		

ALTIMETER SCALE ERROR

CUSTOMER: *Hileman Aviation*

N# *789 UP*

DATE: *12/02/2013*

ALTIMETER TYPE: *ARC PN 42540-6129 SN 9869*

Test Point (FT)	Indicated (FT)	Test Point (FT)	Indicated (FT)	Test Point (FT)	Indicated (FT)
-1000	-990	6000	6,025	22000	22,000
0	0	8000	8,020	25000	24,975
500	510	10000	10,020	30000	29,920
1000	1,015	12000	12,040	35000	N/A
1500	1,515	14000	13,990	40000	N/A
2000	2,020	16000	15,985	45000	N/A
3000	3,020	18000	17,980	50000	N/A
4000	4,015	20000	19,950		

DATE	TOTAL TIME IN SERVICE	TOTAL TIME SINCE OVERHAUL	TACH OR RECORDING METER TIME
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DESCRIPTION OF WORK PERFORMED—
SIGNATURE & CERTIFICATE NO. OF PERSON PERFORMING WORK

LOGBOOK ENTRY
AIRFRAME

Ideal Aviation
[Redacted]
Cahokia, IL 62206
[Redacted]
[Redacted] (F)

N789UP DATE: 1 October 2014
S/N: 414A 0495 TACH: 2068.3 (Hobbs)
Model: 414A ACTT: 8346.9
SCHEDULED MAINTENANCE

1. Performed an **Annual** inspection IAW Cessna Service Manual & FAR 43 appendix D.
2. Cleaned left and right fuel gascolator screens.
3. Replaced prop heat circuit breaker switch PN W31X2MIG20.
4. Replaced 2 bulbs (P/N GE327) in annunciator panel & repaired wire at R/H voltage monitor control box.
5. Replaced both right and left cowl flap ball joints P/N: SL 104-1 and checked rigging.
6. Replaced a section of the upper deck air supply flexible hose as needed with Aeroquip: 306-150 material.
7. Replaced O- ring in left turbocharger wastegate actuator oil return line
8. Replaced plastic sleeve PN M7444-5/16 on both left and right propeller deice boot wiring harness.
9. Safetied Left engine over-boost control valve using .032 locking wire.
10. Removed Right Engine oil cooler P/N: 636900; S/N: 31552 and sent to Aircraft Accessories for overhaul (see W.O. Z4UR2220). Reinstalled same oil cooler P/N: 636900; S/N: 31552. Leak check is satisfactory.
11. Replaced R/H engine magneto pressurization filter element PN 1396-2.
12. Checked both L/H and R/H propeller heat brush blocks for brush serviceability and proper rigging.
13. Repaired baffle seal on both engines as needed.
14. Re-routed and secured right engine alternator wires and noise filter.
15. Removed rudder trim actuator. Disassembled to extent necessary to allow turning forward bearing around to take up slack in actuator resulting in correct tolerance. Reassembled with new spring pins, reinstalled in aircraft and rigged per Cessna 414A service manual.
16. Removed and replaced L/H and R/H MLG brake disks PN APS 164-20306 and installed new linings P/N: 066-06600 16 ea. and rivets (3ea) PN APS 177-01600 as needed. Cleaned & greased all wheel bearings. Replaced R/H MLG tire with a Goodyear Flight Custom III PN 301-043-006 and serviced both main tire pressures to 70 PSI. Serviced nose tire pressure to 35 PSI.
17. Replaced RH nose gear door seal PN S1058-1.
18. Installed new lamp PN GE-304 and reinstalled light fixture in forward baggage compartment.
19. Secured wiring and connectors as needed under the forward baggage floor.
20. Complied with FAR 91.207 (d) 1-4 ELT functional check. No defects noted. **Compliance again due at next annual. Battery change due Aug. 2015.**
21. Repaired lower entry door aft lock indicator tab.
22. Removed and replaced forward baggage door lock P/N: 5200040-2.
23. Inspected O2 bottle installation. **Next hydrostatic inspection is due July 2018.**
24. Inspected L/H fuel gauge wiring and fuel conditioner box for broken or poor connections.
25. Cleaned corrosion from tail nav lamp socket and ground connection.
26. Complied with AD 2000-01-16 exhaust system inspection part C. No defects noted. **Next compliance due: 10/2015.**
27. Complied with AD 2004-25-16R1 fuel regulator shutoff valve for leaks. No defects noted. **Next compliance due in 100 hours or 10/2015.**
28. AD's checked through 2014-19

I certify that this aircraft has been inspected in accordance with an annual inspection and was determined to be in an airworthy condition and is approved for return to service.
Additional details of this work are on file under Work Order # 3009.

SIGNED [Redacted Signature] Norman Walters
A&P [Redacted Signature]

Date 11/7/14
Hourmeter 2976.7

- (1) Removed RH turbocharger PN 407810-9001, SN CKN00197.
- (2) Installed overhauled/exchange turbocharger PN 407810-9001, SN ZL018835 as received from RAM Aircraft, Limited Partnership, Waco, TX. See maintenance release
- (3) Completed ground run, turbocharger ops checked normal, no leaks noted.

