

N521RM

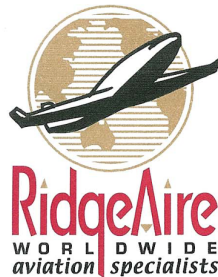
1977 Cessna 421C

Airframe Logbook

#7 of 8

2007 - 2019

MSN: 421C-0335



Prepared by the worldwide aviation specialists at RidgeAire, Inc.



**AIRFRAME
MAINTENANCE
RECORDS**

Registration No. N521RM
Serial No. 421C0335

Paint

BASE:	Dupont	Mattehorn	White	
Stripes:	Dupont	Slate Gray	Metallic	P 6176
	Dupont	Steel Blue	Metallic	P 1187



AIRFRAME MAINTENANCE RECORDS

Log No. 7

Aircraft Registration No. N521RM

Model 421C

Serial No. 421C0335

254/752-8381

Waco Regional Airport • P.O. Box 5219 • Waco, Texas 76708

FAX 254-752-3307

1-800-445-9713

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100-1722OSRST
Revision IR
05/15/2005

2300 W. 6th Street
Fort Worth, TX 76107

Perkins Aircraft Services, Inc.
JKQR257L
Maintenance Transaction Report

Tel 800 880 1966
Fax 817 877 4339

This Maintenance Transaction Report is to be Solely for _____

Airframe Entries

Aircraft Identification Status				
A/C Make & Model	A/C Serial No.	A/C Registration No.	Total A/C Hours	Total A/C Landings
CESSNA 42K	421C0335	N521RM		
Component Changes, Inspections, Service Bulletins or Airworthiness Directives Accomplished				
R/H MAIN WINDSHIELD REMOVED AND REPLACED WITH NEW WINDSHIELD PIN PASS 11604-204 SIN 6312 IAW CESSNA 42K MAINTENANCE MANUAL SECTION 3-2				
R/H SIDE COCKPIT WINDOW REMOVED AND REPLACED WITH NEW WINDOW PIN LP-1153CL SIN N/A IAW CESSNA 42K MAINTENANCE MANUAL SECTION 3-4				
Repair Facility: Perkins Aircraft Services, Inc.		Certificated Repair Station No.: JKQR257L		W/O No.: 024160
Work Performed By: M. KNAPP		Certificate No.: JKQR257L		Date: 4-13-07
I certifies that the work identified and described above 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.				
Work Inspected By: S. E. Dm		Certificate No.: JKQR257L		Date: 4-13-07

SERVICE

SINCE OVERHAUL

METER TIME

Logbook Entry

Cessna: 421C S/N: 421C0335 Hobbs Time: 3230.3 NH: 521RM Date: 2/10/07

Removed for install: Garmin GTX-320 Xpdr P/N 011-00259-00 S/N 83200668, B/K Nav/Com KX-155 P/N 069-1024-43 S/N 120798, B/K DME KN-64 P/N 066-1088-00 S/N 30340, B/K IN-182A Radar Indicator P/N 066-3084-32 S/N 22368, ARC B-445A VOR/LOC Converter P/N 47240-0000 S/N 906.

Installed the following: New Garmin GMX-200 Multifunction Display P/N 011-01467-00 S/N 17000520, new Garmin GNS-430W WAAS GPS/Nav/Com/GS Receiver P/N 011-01060-00 S/N 23400509, new Garmin GA-35 WAAS/GPS Antenna P/N 013-00235-00 S/N 10440, new Garmin GA-55 XM/WX Datalink Antenna P/N 011-00133-00 S/N 87505724, new Garmin GDL-69A XM/WX Datalink Receiver P/N 011-00987-00 S/N 47756921, new Garmin GTX-330 Mode S/A/C Transponder P/N 011-00455-00 S/N 84124933.

Reference 337 dated 2/10/07 for details regarding this installation. Performed 91.411/413 correspondence test to 30,000 ft.. Updated aircraft records, revised weight and balance, all systems test normal.

Tests and Inspections required by FAR 91.411 and/or 91.413 (Part 43, App. E&F) have been performed to the following:

	M/N	P/N	S/N	Cert To (Ft)
Alt. #1	EA-801A	43300-6128	1243	30K FT.
Enc. #1	—	44012050X-RS232	SRA 8720	—
Trspr #1	GTX 330	011455-00	84124933	—
#1 Static System Leak - FPM				15' wind @ 1000' AGL

	Alt. Make	Enc. Make	Trspr. Make
System #1	ARC	TCI	Garmin

	M/N	P/N	S/N	Cert To (Ft)
Alt. #2	—	5934PA-3	410391	30K FT.
Enc. #2	—	440120-30	A 57131	—
Trspr #2	GTX 320	011-00259-00	83200686	—
#1 Static System Leak - FPM				15' wind @ 1000' AGL

	Alt. Make	Enc. Make	Trspr. Make
System #2	United	TCI	Garmin

Pertinent details are on file under Work Order 2029FR, Dated 2/10/07.

A copy of this W.O. has been given to the operator.

AOG-ASAP AVIONICS

Inc.

Signature:

[Signature]

CRS 00AR682Y
Front Range Airport

THE AIRCRAFT AND/OR COMPONENT IDENTIFIED ABOVE WAS REPAIRED AND INSPECTED IN ACCORDANCE WITH CURRENT FAA REGULATIONS AND IS APPROVED FOR RETURN TO SERVICE. Pertinent details of the repair are on file at this repair station under Work Order No. 2029FR Date 2/10/07 Signed: *[Signature]*
For: **AOG-ASAP AVIONICS Inc.**
CRS 00AR682Y
Front Range Airport

Date 3-1-07 Hobbs 3225.8 Airframe Book
Pressured lubed Rt engine throttle cable due to sticking at
Temperatures. Levelled main gear struts. Replaced right engine
No 3 CHT Probe ducts defective probe. Checked operation of
Lift detector all dks good. Replaced left wing inboard deice
boot per instructions all dks good. C. Nordin A:P 2635849

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TOTALS—Carry forward to next page

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
1/20/2008	7705.3		3332.5	<p>Complied with Annual Inspection I.A.W. FAR PART 43 Appendix D and Cessna 421C M/m checklist. Removed all panels and interior for Insp. Jacked Alc and repacked main and nose wheel bearings, Insp. brakes and serviced Brake fluid all checked. Lubed all gear and swing gear operational checked. Serviced Blowdown Bottle to recommended pressure. Removed Oz Bottle and had it hydro test done next due 1/2013. Reinstalled Oz Bottle and leak checked all checked good. Inspected and lubed all fit control cables and pulleys and checked rigging of fit control cables all checked good. Serviced spoiler controller with 5W60 to full and checked operation all checked good. Replaced E.I.T. battery and performed ck out per FAR 91.207 D all checked good. Next Battery change due 1/2010.</p> <p>Checked all lights and replaced left position light and wing device light all checked good also checked all heating elements all checked good. Installed new regulator filters. Inspected both fuel selector filters for contamination all checked good. C/w AD 2004-21-05 pressure decay of heater and air pressure switch function all checked good. Due again at heater hobbs 2504.7 C/w AD 2004-25-16R Kelly Aerospace fuel regulator performed visual Insp. all checked good next ck due in 100 hrs C/w AD 78-13-05 Reinstalled all panels and interior. Checked Alc Battery and Battery Box all checked good. I certify that this Alc has been inspected I.A.W. an Annual Insp. and was determined to be in Airworthy Condition C. Neuman P.P 2638049 IA</p>
Heater Hobbs	2404.7			
				SUB-TOTALS this page
				TOTALS—Carry forward to next page



ARTEX AIRCRAFT SUPPLIES, INC.
 14405 Kell Rd NE Aurora, OR 97002
 (503) 678-7929 800-547-8901

BOOK ENTRY _____
 BATTERY PLACEMENT DATE 1/2010

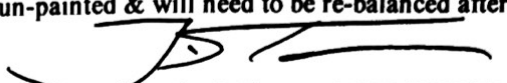
DATE	TOTAL TIME IN SERVICE	TOTAL TIME SINCE OVERHAUL	TACH OR RECORDING METER TIME	DESCRIPTION OF WORK PERFORMED— SIGNATURE & CERTIFICATE NO. OF PERSON PERFORMING WORK
				TOTALS brought forward from previous page

Advanced Air, Inc. 16801 McCandless Lane, Council Bluffs, IA 51503 712-323-2173

Date: 12/31/2008 W.O. 3838 Reg# N521RM Tach: 3421.6

Aircraft Total Time:

Installed RH aileron p/n 5124000-98, s/n 634 as overhauled and balanced by Air Impressions, Inc. CRS# AK6R541N, under W.O.# 2637. This aileron was installed un-painted & will need to be re-balanced after paint.


Timothy S. Tanner A&P26902091A

37900 Cessna Way
Hangar B.
Watkins, CO 80137

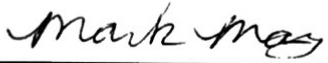


AOG Aircraft Services, Inc.

Tele: 303-261-4070
Fax: 303-261-4133

Date: 2/20/09 N#521RM Tach Time:3447.4 Total Time Airframe: 7820.2

Complied with a Annual Inspection in accordance with Cessna 421C Service Manual Checklist and FAR Part 43 appen.(d) Opened up all panels, Lubed all controls and pivot points. Jacked aircraft, Removed all wheels and disassembled main wheels and rotated tires. Torqued all bolts to specs and repacked all wheels bearings and checked brakes.Greased all gear points and installed new grease caps to zerks. Installed new regulator filters P/N: B3-5-1. Serviced A/C, Gear system and Power Pac Spoilers reseviors.Repaired all seats armrests and hydrolock buttons. Removed and replaced EL Panel power inverter P/N: C613001-0101. Operational checks satisfactory.Checked all light & heat operations. Removed and replaced R/H horizontal De ice boot with a new SMR5070-11, In accordance with installation and maintenance manual SMR # 97-33-047, Rev9. Resealed fuel tanks inboard and resealed access panels. C/W AD# 2004-25-16R. C/W AD# 78-13-05 Improperly installed seats. C/W FAR 91.207(d) 1-4, Next 12 month due 2/2010. Cleaned interior and exterior. Check ran aircraft, Leak and operational checks satisfactory @ this date and time. AD's checked thru Bi Weekly 2009-04/05. I certify that this Aircraft has been inspected in accordance with an Annual Inspection and was found to be in an Airworthy Condition @ this date and time.-----END-----

A/P Name: Mark May  I.A. # 505069248 A&P Date: 2/20/09

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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
				A/C Cessna / 421C N521RM Hobbs: 3447.6 Transponder #1 Make/Model Garmin / GTX-330, S.N. 84124933 and Transponder #2 Make/Model Garmin / GTX-320, S.N. 83200686 in this A/C has been inspected IAW Title 14 CFR 91.413 and found to comply with the specifications of Title 14 CFR 43 App F. Altimeter #1 Make/Model ARC / EA801 , S.N. 1243 Altimeter #2 Make/Model United / 5934PA-3 , S.N. 410391 Encoder #1 Make/Model TCI / SSD120-30-RS232 , S.N. SRA8720 Encoder #2 Make/Model TCI / SSD120-30A , S.N. A 57131 and the Static System have been inspected IAW Title 14 CFR 91.411 and found to comply with the specifications of Title 14 CFR 43 App E. Details on file under MTSWO 90223D. CRS TJR625X Dan Fisher-Chief Inspector <u>Dan Fisher</u> Date <u>2-22-09</u> Mobile Transponder Services, LLC. 8266-A Cessna Dr. Peyton, CO 80831

37900 Cessna Way
Hangar B.
Watkins, CO 80137



AOG Aircraft Services, Inc.

Tele: 303-261-4070
Fax: 303-261-4133

Date: 2/27/09 N#521RM Tach Time: 3447.9 Total Time Airframe: 7820.7
 Troubleshoot Right Alternator light flicker, Removed and replaced right alternator fuse holder P/N: 342014 and over voltage relay P/N: 9910068-2 (see 8130-3 form for more info.) Parallel alternator system in accordance with Cessna 421C M/M. Removed auto pilot computer and reinstalled after repairs from West Star (see 8130-3 form for more info.) Grounds checks satisfactory @ this date and time. -----END-----
 A/P Name: Mark May Mark May, I.A. # 505069248 A&P Date: 2/27/09

Date 4-17-09 Hobbs 3494.8 Airframe Book
 Replaced both Lt and Rt master Brake Cylinders per m/m and Bleed brches. Brakes ops cks NMC.
 Relamped nose landing Light and repaired wire to nose landing Light ops cks NMC.
C. Hech A-P 2639849 IA

ARAPAHOE AERO

12760 EAST CONTROL TOWER ROAD ENGLEWOOD, COLORADO 80112 (303) 799-8386
N521RM Cessna 421C S/N: 421C0335 Airframe Log Entry
12 March 2009 Hobbs: 3453.0
 Checked the propeller de-ice system. Installed new de-ice brushes on both left and right sides. Repaired loose connection at the propeller de-ice meter. Operational check good. Ground run up and operational check good. Eric Lundquist A&P476562029 w/o 27675

ARAPAHOE AERO

12760 EAST CONTROL TOWER ROAD ENGLEWOOD, COLORADO 80112 (303) 799-8386
N521RM Cessna 421C S/N: 421C0335 Airframe Log Entry
21 July 2009 Hobbs: 3518.5
 Installed a new cannon plug for the right tachometer generator. Troubleshoot not air conditioning on the right side. Installed a new expansion valve for the right evaporator. Insured the right evaporator was not plugged. Evacuated and serviced the air conditioning system. Operational check good. Removed the right fuel strainer bowl and reinstalled after repair by Heliarc Welding work order 14667.
Scott L. Utz A&P523021803 w/o 28135

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AOG Aircraft Services, Inc.

37900 Cessna Way
Hangar B.
Watkins, CO 80137

Tele: 303-261-4070
Fax: 303-261-4133



Date: 8/18/09 N#521RM Hobbs Time:3525.9 Total Time Airframe: UNK
 Jacked aircraft, Troubleshoot landing gear system, Found Right Main and Nose Uplock switches to have a high resistance. Installed new switches P/N# 602EN55-6B. Rigged switches. Found direction valve solenoid to be inoperative . Replaced vavle assy with a overhauled unit P/N# 9910225-1, S/N# 1099. The removed valve P/N# is the same and S/N# 636. (see 8130-3 form for more info.) Test swung gear with mule 8 times, No defects were noted @ this date and time.-----END-----
 A/P Name: Mark May *Mark May* I.A. # 505069248 A&P Date: 8/18/09



Tunica Air Group
 2930 Winchester Road Hangar 4
 Memphis, TN 38118
 (901)-396-9707 office (901) 396-9708 fax

N521RM S/N: 421C0335
Removed and Replaced Both MLG Tires with P/N on 301-043-006 and installed tube P/N 302-039-402. All work per in Ref to Cessna 421 amm 32-10-01. Serviced tires no leaks noted.

Maintenance Release

The work identified above was performed and inspected in accordance with current Federal Aviation Regulations and was found airworthy for return to service. Pertinent details are on file under **work order: MEM0908024**
 Date: 08/28/2009
 Signed: M. Little *M. Little* 019 08/28/09
 Tunica Air Group CRS# 21TD987Y

Oct. 21, 2009
 Upholstered seats and side panels. Replaced carpet and headliner. Material used meet Federal Air Regulations FAR 23.853 burn test. Records on file under W/O 2348A
 Little Interiors


Dwane Little

Dwane Little A&P 2010242

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Tunica Air Group
 2930 Winchester Road Hangar 4
 Memphis, TN 38118
 (901) 396-9707 (office) (901) 396-9708 (fax)
 877-359-8241




N521RM S/N:421C0335
Replaced R/H brake Compression puck packing's. Serviced Hydraulic brake reservoir. Bleed brakes, ops check satisfactory. No leaks noted at this time.

Maintenance Release
 The work identified above was performed and inspected in accordance with current Federal Aviation Regulations and was found airworthy for return to service. Pertinent details are on file under work order: MEM0912020
 Hobbs: 3235.5 Date: 12/17/09
 Signed: M. May 019 12-17-09
 Repair Station : 21TD987Y

37900 Cessna Way  **AOG Aircraft Services, Inc.** Tele: 303-261-4070
 Hangar B. Fax: 303-261-4133
 Watkins, CO 80137

Date: 4/01/2010 N#521RM Hobbs Time:3533.4 Total Time Airframe: 7906.2
 Complied with an Annual Inspection in accordance with Cessna 421C Service Manual and FAR Part 43 appen.(d) Opened up all panels, Removed seats and carpets. Lubed all controls and pivot points. Jacked aircraft, Removed all wheels. Cleaned all wheels components and repacked wheel bearings. Inspected brakes and rebled system. Serviced hydraulic reservoir for aircraft and spoiler system. Checked all heat and light operations. Test swung gear 4 times, No defects were noted @ this date and time. C/W FAR 91.207(d) ELT inspection and checks. ELT unit failed due to g switch. Replaced with a serviceable unit P/N: C589511-0117, S/N: 34096. Removed unit was same P/N and S/N: was 30869. Installed a new battery P/N:BP1020. Next 12 month inspection due 4/2011. Next battery replacement due 4/2012. Removed and replaced broken nose gear ramp assy. with new. Retorqued loose elevator hinge bolts and reshimmed trim tab due to excessive free play. Cleaned and edge sealed vertical deice boot. Operational checked all deice boot operations, No defects were noted @ this date and time. C/W AD#2007-05-15 and 2005-20-04, Starter adapter inspections, No defects were noted @ this date and time. AD# 2009-24-52E, N/A installed lifters are not effected units, No further action required. Installed new regulator filters, Inspected and cleaned Main engine air filters, Filters next replacement due in 178.2 hrs. AD# 95-09-13 Fuel inlet float valve inspection due in 178.2 hrs. Serviced Main battery and battery box. Removed and replaced left fuel shut off valve with an overhauled unit P/N: 9910201-1, S/N: 3138. Operational checks satisfactory @ this date and time. Heater pressure decay and air pressure switch inspections are due @ Heater Hobbs:2504.7(current H/H time is 2461.4) C/W AD#2004-25-16R Kelly Aerospace fuel regulator leaks, No leaks or defects were noted @ this date and time, Next due in 100 hrs TIS. AD's checked through Bi- Weekly 2010-06/07. Check ran aircraft, Leak and operational checks satisfactory @ this date and time. I certify that this Aircraft has been inspected in accordance with an Annual Inspection and was found to be in an Airworthy Condition @ this date and time.-----END-----
 A/P Name: Mark May *Mark May* I.A. # 505069248 A&P Date: 4/01/2010

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




Tunica Air Group
 2930 Winchester Road Hangar 4
 Memphis, TN 38118
 (901)-396-9707 office (901) 396-9708 fax

N521RM S/N: 421C0335
 Removed nose gear ramp plate and installed new ramp plate, p/rn off/on: 5742204-2.----END---
Maintenance Release

The work identified above was performed and inspected in accordance with current Federal Aviation Regulations and was found airworthy for return to service. Pertinent details are on file under work order: MEM1006031
 Date: 06/24/10 Hobbs: 3532.5
 Signed: *[Signature]*
 Tunica Air Group CKS# 21TD987Y

37900 Cessna Way
 Hangar B.
 Watkins, CO 80137



AOG Aircraft Services, Inc.

Tele: 303-261-4070
 Fax: 303-261-4133

7938.1

Date: 7/03/2010 N#521RM Hobbs Time:3565.3 Total Time Airframe: UNK.
 Removed inoperative R/H Tach generator after troubleshooting system, P/N:H60-050,S/N:285865.
 Installed a overhauled tach generator P/N: H60-050, S/N:119333.(see 8130-3 form for more information)
 Torqued to specs and installed cannon plug. Check ran Engine leak and operational checks satisfactory @ this date and time. Adjusted Left fuel selector handle as required. Operational checks normal@ this date and time-----END-----
 A/P Name: Mark May *[Signature]* I.A. # 505069248 A&P Date: 7/03/2010

09-12-2010	AFH 7955.1	HOBBS 11.4	
	Replaced prop deice indicators		
	P/N C162503-0101. Ops checked good.		
	Eldon Holtz A/P 505707629		

Advanced Air, Inc. 16801 McCandless Lane, Council Bluffs, IA 51503 712-323-2173

Date: 12/16/2010 W.O. 4423 Reg# N521RM Tach: 43.7
Aircraft Total Time:
 Installed new Concord RG24-20 main battery. Checked operation, no discrepancies were noted.

[Signature]
 Timothy S. Tanner A&P26902091A

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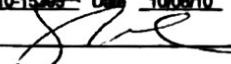
ORIGINAL ENTER IN LEFT ENG BY MISTAKE

SO#	10-15393	SILVERHAWK AVIATION INC.			DATE	10/08/10
REG.	N521RM	Lincoln Municipal Airport [LNK]			HOUR	13.5
MAKE	Cessna	MODEL	421C	SERIAL NO.	421C-0335	

Maintenance Record

1. Removed rudder and trim tab P/N 5133020-200. Inspected for additional wind damage. Found upper and center rudder hinge support sheet metal to have slight bends and three tipped rivets. Removed bends from hinge fairings and replaced the three rivets with new. Installed repaired rudder assembly P/N 5133020-200. Trimmed rudder assembly for proper fit and clearance. See Airframe Components W.O. #13213.
2. Inspected ailerons, elevators, and cable tensions for wind damage. No discrepancies noted.
3. Replaced upper rudder hinge bearing with new P/N MS24462-4.
4. Replaced broken rudder bonding strap with new P/N 0831005-1.

The work identified above was repaired and inspected in accordance with current (CFR) Code of Federal Aviation Regulations Title 14 and is approved for return to service as airworthy. Pertinent details of the repair/repairs are on file at this agency under shop order No. 10-15393 Date 10/08/10

Signed:  for

Silverhawk Aviation Inc. CRS# YQSR759U
Lincoln, NE 68524

01-10-11	HoBBS 46.2	Installed overhauled alternator P/N 649304 S/N 212401 and installed repaired tach generator M# 25038-2 S/N 119333 on right powerplant. Installed overhauled tach generator P/N M# 25038-2 S/N 120677 on left powerplant. Eldon Holtz APP 505707629
03-14-11	HoBBS 51.9 AFT 7995.6	Inspected all flight controls. Inspected landing gear wheels & brakes. Replaced nose gear ramp. Replaced all brake lining. Overhauled right brake master cylinder. Performed gear retraction c/w AD 04-25-16 R1 by inspecting heater fuel regulator checked good. Heater holes 2484.9 c/w FAR 91.207 by checking EIT and ops checked good. AD 84-26-02 engine air filter is not due at this time. Eldon Holtz IA 505707629

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				Date <u>03-14-11</u> Aircraft Total Time <u>7995.4</u> I Certify That This <u>AIRCRAFT</u> Has Been Inspected In Accordance With An <u>ANNUAL</u> Inspection And Been Determined To Be In Airworthy Condition. <u>Eldon Holtz</u> <u>1A 505 707629</u> Signature Certificate No.
<u>05-07-2011</u>	<u>TACH 8010.5</u>	<u>HOBBS 66.8</u>		<u>Pilot reported right engine shuts down when selector was put in left position. Checked selector rigging and cross feed shut off rigging. Ran right engine per maintenance manual at 1500 RPM and performed test. Found to work correctly per maintenance manual. Recommend turning left booster pump on high during selecting left tank.</u> <u>Eldon Holtz A&P 505707629</u>
	<u>N521RM</u>	<u>9-2-2011</u>	<u>HM: 116.2</u>	Removed and replaced right engine tach generator with overhauled unit from Quality Aircraft Accessories. p/n MS25038-2, s/n off 119333, s/n on 72758. Operational checks OK. Removed and replaced right engine left exhaust stack assy for cyls 2,4,6 with new stack assy p/n K9910299-15 from Parts Exchange Inc. Removed and replaced nose gear 'ramp' p/n 5742204-2. Complied with AD 2000-1-16 para(b) Exhaust System Inspection for left and right engines. <u>William Zempel</u> William Zempel A&P 3092523
				SUB-TOTALS this page
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N521RM 9-23-2011 HM: 119.8
 Removed and replaced arm rest assembly p/n 5119217-4 on right rear pax seat. Repaired left rear pax seat arm rest. Removed glareshield, recovered glareshield, reinstalled glareshield.

William Zempel
 William Zempel A&P 3092523

211 South Airport Blvd. P.O. Box 1634 Tunica, Ms. 38676 (662) 357-7350 off (662) 357-7351 fax CRS 21TR987Y	Total Air Group Toll Free (877) 359-8241	2930 Winchester Rd. Memphis, Tn. 38118 (901) 396-9707 off (901) 396-9708 fax CRS 21TD987Y
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Airworthiness Release

W/O: MEM-440
 N: N521RM S/N: 421C0335 Hobbs: ~~N/A~~ 123.1 TT: N/A Cycles: N/A

REMOVED AND REPLACED ELEVATOR TRIM WHEEL. OPS CHECK OK AT THIS TIME. WORK PERFORMED IN REF TO CESSNA 421 MM CHAPTER 5-30. P/N OFF/ON: 0861100-164

The work identified above under the wo number was performed and inspected in accordance with current Federal Aviation Regulations and was found airworthy for return to service

AMT: *William Zempel* Date: *9/27/11*

Page 1 of 1

N521RM 10-28-2011 HM: 141.2
 Installed new piston o-ring in right brake master cylinder. Installed 4 new o-rings in right MLG brake caliper. Bled and filled brake system.

William Zempel
 William Zempel A&P 3092523

N521RM 11-10-2011
 Hour-meter changed (R&R) sometime between 7-3-2010 and 9-12-2010 by persons unknown. The old HM read 3570.9 at change. AFTT at change was 7943.7. Left Engine TSMOH at change 1428.7. Right Engine TSMOH at change was 305.4.

William Zempel
 William Zempel A&P 3092523

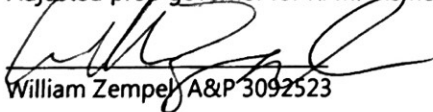
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DATE	TOTAL TIME IN SERVICE	TOTAL TIME SINCE OVERHAUL	TACH OR RECORDING METER TIME	DESCRIPTION OF WORK PERFORMED— SIGNATURE & CERTIFICATE NO. OF PERSON PERFORMING WORK
				<p><u>N#521 RM Transponder/Altimeter/Static Biennial Certification</u> This aircraft's Altimeter system and Altitude Reporting Equipment have been inspected and tested in accordance with FAR 43 appendix E & F, To comply with 91.411</p> <p>PILOT ALT. P/N <u>EA 901</u> S/N <u>1243</u> Tested to <u>30000</u></p> <p>C/P ALT. P/N <u>5934PA-3</u> S/N <u>410391</u> Tested to <u>30000</u></p> <p>Encoder P/N <u>55D 120-30</u> S/N <u>SRA 9720</u> Tested to <u>30000</u> #1 <u>2 55D 120-30A</u> S/N <u>A 57131</u> Tested to <u>30000</u></p> <p>The Aircraft's ATC Transponder sys. Has been inspected and tested ICW FAR 43 Appendix F to Comply with 91.413.</p> <p>#1 Transponder <u>GARMID</u> P/N <u>GTX 330</u> S/N <u>84124933</u></p> <p>#2 Transponder <u>GARMIN</u> P/N <u>GTX 820</u> S/N <u>83200686</u></p> <p>#4 Static system complies with CFR 23.1325. Leakage f/min-Plt <u>-10/20k</u> C/P <u>350/20k</u></p> <p>Notes <u>None</u> <u>Hobbs</u></p> <p>WO# <u>1203263168</u> Date: <u>3/26/12</u> Hours <u>2502.8</u> <u>151.9</u></p> <p>INSPECTOR: <u>Steve Nitzke</u></p> <p style="text-align:center">Front Range Transponder Svc, 305 Airport Dr., Erie, Co., 80516 303-808-9276 CRS F42R979Y</p>

N 521RM 4-2-2012 HM: 151.9

Removed and replaced left engine. Overhauled engine supplied by RAM Aircraft PO# 9596/ Inv# 6056. S/n off: 246022.R, s/n on 277155.R. Removed and replaced turbocharger, wastegate, wastegate/turbo controller, throttle control assembly, intercooler, starter, alternator, pop-off valve, rod & link assembly, pressurized magnetos; all overhauled units supplied by RAM under same PO and invoice. Removed and replaced 4 engine mounts, all new teflon hoses for fuel, oil and hydraulics forward of firewall; supplied by RAM under same PO and invoice. Re-installed propeller. Reinstalled prop deice equipment. Reinstalled overhauled prop governor; overhauled by Rocky Mountain Aircraft Accessories, WO/Invoice # 4689. Installed new exhaust assembly less manifold. Installed overhauled manifold; overhauled by Knisley Welding WO# 141079. Reinstalled CHT and EGT probes and harness on engine. Re-installed fuel flow transducer. Installed new vacuum and breather hoses. Rigged engine controls. Test run engine and check fuel flow parameters. Adjusted prop governor for RPM. Removed and replaced fuel vapor return line at firewall, left engine.


 William Zempel A&P 3092523

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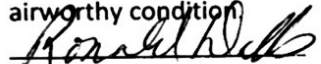
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DATE	TOTAL TIME IN SERVICE	TOTAL TIME SINCE OVERHAUL	TACH OR RECORDING METER TIME	DESCRIPTION OF WORK PERFORMED— SIGNATURE & CERTIFICATE NO. OF PERSON PERFORMING WORK
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N521RM, 4-2-12, HM: 151.9, TT: 8095.6

1. Performed this inspection per Cessna and FAR 43 apdx d and was found to be good for return to service.
2. Replaced brake discs and brake linings on left and right gear.
3. Replaced the outboard wheel bearing on the left wheel and notched washers for the bearing on both wheels.
4. Installed new terminal end on the left starter wire at the starter.
5. Repaired wire on the alternator filter for left and right alternators.
6. Installed overhauled Prop governor on left engine. Overhauled by Rocky Mountain Aircraft accessories per work order #4689 and adjusted as needed. Leak checked good.
7. Repaired wiring for fire detector probes on both engines as needed.
8. Replaced battery for the ELT and complied with FAR 91.207 output check and found to be good at this time.
New battery due date is 12-2013.
9. Removed both fire bottles for Hydro test by Aero Care, INC. per w/o8353 and 8354. Reinstalled bottles. Panel lights and system test checks good. **Next Hydro test due 3-15.**
10. Removed gear blow down bottle for Hydro test by Aero Care, INC. per w/o 8355. Reinstalled bottle and hooked up and rigged control cable. **Next due 3-15.** Serviced bottle with nitrogen.
11. Replaced transistor for pilot's overhead flood light.
12. AD 04-21-05 heater decay test per the Cessna and Janitrol MM and found heater to be good at this time.
Next due at HHM: ~~2702.8~~ 2602.8 w/kl c/w @ HEATER HM 2502.8
13. AD 04-25-16R1 Fuel regulator shutoff valve and found good at this time.
14. AD 84-26-02 Induction air filters complied with by installing new filters. **Next due HM: 551.9.**
15. Resealed right brake master cylinder and bleed brake. Brake operational check is good.
16. Lubed left prop cable and right mixture cable.
17. AD 78-13-05 Improperly installed seats. Complied with per the AD.

I certify that this Aircraft has been inspected in accordance with an Annual inspection and has been found to be in an airworthy condition.


Ronald Dobbs
IA3506064

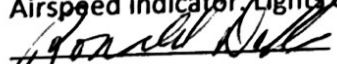
N521RM 4-24-2012 HM: 166.8

Reprogrammed Hoskins Fuel Totalizer to 272 usable gallons. Removed and replaced 357 batteries in unit. Installed patch on split on left wing deice boot.


William Zempel A&P 3092523

N521RM, Tach: 216.7, Date: 9-19-12

1. Replaced CHT probe for cylinder #6 and repaired wires for cylinder #2 s/n95933.
2. Removed copilots HSI and sent out for repair and reinstalled. Ground run and operational checks good. Quality Aircraft Inst. w/o#51615.
3. Resealed left brake wheel cylinder and bleed brake. Brake checks good.
4. Replaced 5 amp circuit breaker for the stall heat. Stall heat checks good.
5. Repaired light for engine RPM gauge. Replaced nu-lite assy. for co-pilots Airspeed indicator. Lights check good.


Ronald Dobbs
A&P3506064

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N521RM 10-17-2012 HM: 228.3

Removed right wing deice flow valve. Cleaned and repaired valve. Reinstalled flow valve. Removed, fabricated and installed vacuum line to right wing flow valve. Flow valve operational checks OK.

William Zempel
William Zempel A&P 3092523

N521RM 11-6-2012 HM: 236.7

Removed and replaced left auxiliary fuel pump, p/n 2B7-29, s/n off 2E166, s/n on 10F775; leak checks OK
Complied with AD2000-01-16 Exhaust System Inspection, para (b) for left and right engines; checks OK
Complied with AD95-09-13 Fuel Tank Inlet Float Valve Inspection, left and right tanks; checks OK next due
HM 836.7

William Zempel
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N521RM 1-10-2013 HM: 256.3

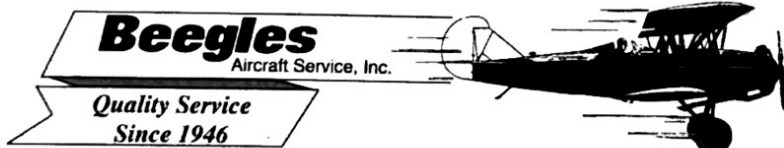
Removed and replaced cannon plug assembly for tach generator on left engine. Removed and replaced left landing light lamp. Removed auto pilot roll servo for test and inspection by AutoPilots Central WO# SH12-25437. Reinstalled roll servo, ground ops checks OK. Tensioned roll servo cables per 421C Maint Man specs. Removed and replaced instrument vacuum air filter.

William Zempel
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N521RM 3-15-2013 HM: 273.2

Removed and replaced left main landing gear actuator. s/n off: C1690, s/n on: CE1101 Adjusted rod-end for camber. Retract checks OK, Leak checks OK. Bleed and service right brake system.


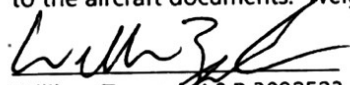

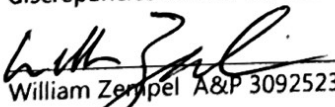
William Zempel
William Zempel A&P 3092523



GREELEY, CO
REPAIR STATION BX4R092M
(970) 353-9200

04-24-2013 Hobbs 287.00 N521RM sn 421C0335

Repaired LH & RH wings: Replaced LH & RH gear casting fasteners at Station 106.00.
Replaced LH & RH wing smoking rivets at Station 106.00. Touched up rivet paint as required
Landing gear; Performed operation

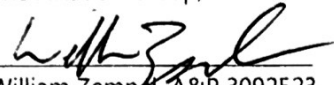
DATE	TOTAL TIME IN SERVICE	TOTAL TIME SINCE OVERHAUL	TACH OR RECORDING METER TIME	DESCRIPTION OF WORK PERFORMED— SIGNATURE & CERTIFICATE NO. OF PERSON PERFORMING WORK
N521RM	4-29-2013	HM: 285.1	TTAF: 8228.8	<p>This inspection performed in accordance with FAR 43 Appendix D Removed and reinstalled left and right propellers after reseal by Aero Propeller and Accessories Inc Removed and replaced left engine tach generator, p/n MS25038-2, s/n off 120677, s/n on AF55181425. Removed and replaced right alternator, p/n 649304, s/n off 212401, s/n on L040007.0 Removed and reinstalled oxygen bottle after hydro test by Aero Care WO#8984. Next due 4-30-2018 Removed and replaced avionics cooling fan under fwd nose baggage, p/n BS2107F30 Removed and replaced combustion heater combustion blower motor, p/n 87D91-1 Re-soldered capillary pressure sense line at oxygen bottle regulator. Resealed left and right landing gear up-lock actuators. Resealed air conditioning hydraulic pump on right engine. Removed right master cylinder, replaced boss o-ring on bottom fitting. Reinstalled, bled and serviced master cylinder. Tightened all 4 mounting bolts on right engine turbo charger. Removed, fabricated and installed 5/8" hydraulic supply line between right engine nacelle rib and flexible supply line. Fabricated and installed new hoses and hard line for right engine vacuum: firewall to vacuum pump. Removed and replaced left and right engine hydraulic filters. Fabricated and installed 1/4" drain line on left engine turbo wastegate. Fabricated and installed 1/16" cable for yaw damper, right side. Removed and replaced transistors on shaver outlet inverter. Removed and replaced both propeller heat brush assemblies on right engine brush block. Serviced left and right landing gear with 5606 fluid and nitrogen. Tested ELT per FAR 91.207, checks OK. Complied with AD 2000-01-16 Left Exhaust System Inspection, paragraph (b), no discrepancies found Complied with AD 2000-01-16 Right Exhaust System Inspection, paragraphs (b), (c), (e), no discrepancies found.</p> <p>I certify that this Aircraft has been inspected in accordance with an Annual inspection and has been determined to be in an airworthy condition.</p> <p> William Zempel A&P 3092523 IA</p>
N521RM	7-17-2013	HM: 311.3		<p>Installed Premiere-Aviation hubcaps per STC SA02430LA. Instructions for 'continuing airworthiness' are added to the aircraft documents. Weight & Balance, and Equipment is updated. FAA from 337 generated this date.</p> <p> William Zempel A&P 3092523</p>
N521RM	9-4-2013	HM: 322.4		<p>Removed and replaced tach generator on right engine. S/n off 72758, s/n on 291543</p> <p> William Zempel A&P 3092523</p>
N521RM	11-13-2013	HM: 322.4 334.1		<p>Complied with AD2000-01-16 Exhaust System Inspection, paragraph (b), on left and right engines; no discrepancies found. Serviced main and nose tires. Serviced left and right brake reservoirs.</p> <p> William Zempel A&P 3092523</p>

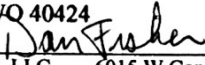
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DA **N521RM** **12-5-2013** **HM: 346.6**

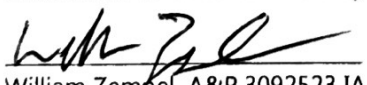
Set voltage and paralleled alternators per 421 MM. Removed, resealed and reinstalled left and right fuel selector valves. Removed and replaced right cross-feed shut-off valve with repaired unit, s/n 032313, from The Aviation Group, cert #VGOR728L. Operational and leak checks OK.


 William Zempel A&P 3092523

A/C Cessna / 421C **N521RM** **Hobbs: 0374.8** **April 19, 2014**
Transponder #1 Make/Model **Garmin / GTX330** S.N. **84124933** and
Transponder #2 Make/Model **Garmin / GTX320** S.N. **83200686** in this
 A/C have been inspected IAW Title 14 CFR 91.413 and found to comply
 with the specifications of Title 14 CFR 43 App F.
Altimeter #1 Make/Model **ARC / EA-801**, S.N. **1243**,
Altimeter #2 Make/Model **United / 5934PA-3**, S.N. **410391**,
Encoder #1 Make/Model **TCI / SSD120-30-RS232**, S.N. **SRA8720**,
Encoder #2 Make/Model **TCI / SSD120-30A**, S.N. **A57131**, and
Both Static Systems have been inspected IAW Title 14 CFR 91.411 and
 found to comply with the specifications of Title 14 CFR 43 App E.
 Details on file under MTSWQ 40424 **CRS TJJR625X**
 Dan Fisher-Chief Inspector  Date **4-19-2014**
Mobile Transponder Services, LLC. 6015 W Condor Rd Peyton, CO 80831

Mile High Aircraft Services LLC. **37625 Astra Wy Watkins CO, 80137** **303-261-4111**
N521RM **5-2-2014** **HM: 376.2** **TTAF: 8319.9**

This inspection performed in accordance with FAR 43 Appendix D
 Removed and replaced ELT battery. Operational checks OK per FAR 91.207. **Battery next due FEB 2016**
 Removed and replaced right engine mixture cable. Rigged for travel and cushion. Ops checks OK.
 Removed left engine fuel selector gearbox, repaired broken screw, reinstalled gear box, ops checks OK.
 Removed and replaced yaw damper cable pulleys 30" aft of yaw damper. Removed twist from rudder trim
 cables previously improperly installed in vertical stabilizer. No permanent damage on equipment found.
 Installed conical seal on right engine hydraulic 5/8" return hard line to hose below turbo.
 Removed and replaced co-pilot Turn Coordinator, with o/h'd unit from Aircraft Quality Instruments.
 Tightened pilots seat pedestal to floor structure.
 Removed, lubricated and reinstalled temp control switch on Janitrol heater.
 Repaired lower entry door forward cable attach link on door: straightened bent link and installed with proper
 hardware. Fabricated and installed arm rest stop plate on copilot seat arm rest.
 Tightened hold-down strap on left wing locker fuel tank. Removed and replaced left and right vacuum
 regulator filters.
 Removed right landing gear. Resealed strut with new PolyPak seal and new MS28775-229 and -228 o-rings.
 Reinstalled strut. Reinstalled landing gear. Serviced with 5606 fluid and air to proper chrome exposure.
 Verified terminating compliance with AD 90-02-13 Landing Gear Bearing on the right gear.
 AD 90-02-13 was previously terminated on the left gear by installation of 5141109-4 bearing on 11-22-1999
 Complied with AD2004-21-05 Janitrol Heater Decay Test: checks OK, next due heater hobbs 2688.2 (100 hrs) **12/4/14**
 Complied with AD2004-25-16R1 Janitrol Fuel Regulator Inspection: visually checks OK, next due 2688.2/12 mos
 I certify that this **Aircraft** has been inspected in accordance with an **Annual** inspection and has been
 determined to be in an airworthy condition.


 William Zempel A&P 3092523 IA

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Work Order

Date: 4/19/2014 **Work Order:** 40424 **Name:** RMI Aviation Inc
A/C Make/Model: Cessna / 421C **Address:** 4655 Colorado Blvd
A/C Registration: N 521RM Denver, CO 80216-3217 **KFTG**
A/C Serial #: 421C0335 **Customer P.O.:** Verbal - Bill Zemple
A/C Tac: **Hobbs:** 0374.8 **Phone:**

Work to be accomplished: Biennial certification to comply with Title 14 CFR 91.411 and 91.413.

Preliminary Inspection:
Altimeter #2 indicates 30' high at 500', not I/C/W 14 CFR 43 app E.
Altimeter #1 indicates 40' low at sea level, not I/C/W 14 CFR 43 app E.
Both encoders and both static systems C/W 14 CFR 43 app E.
Both transponders C/W 14 CFR 43 app F.

Hidden Damage Inspection: None found.

Work Summary: Completed biennial inspection to comply with Title 14 CFR 91.411 and 91.413
Completed altimeter #2 baro adjustment I/A/W United Instruments procedure.
Completed altimeter #1 baro adjustment I/A/W ARC procedure.

Final Inspection: Aircraft inspected I/A/W Title 14 CFR 43 app E & F and complies with 14 CFR 91.411 & 91.413.

PARTS

Description	Model	Part Number	Serial # Off	Serial # On

This aircraft and/or appliance has been inspected and/or repaired in accordance with current maintenance rules of the Federal Aviation Regulations and is approved for return to service.

Inspector: Dan Fisher **Date:** 4-19-2014

Forms included with this Work Order: MTSWO 2 MTSYT Other

MOBILE TRANSPONDER SERVICES, LLC

CRS TJJR625X

6015 W Condor Rd
Peyton, CO 80831

719-251-8251

MTSWO 40424

Transponder Make/Model/S.N.	Altimeter Make/Model/S.N.	Encoder Make/Model/S.N.
#1 Garmin / GTX-330 / 84124933	#1 ARC / EA-801 / 1243	#1 TCI/SSD120-30-RS232/SRA8720
#2 Garmin / GTX-320 / 83200686	#2 United / 5934PA-3 / 410391	#2 TCI / SSD120-30A / A57131

APPENDIX - E

Scale Error (Table I)

Baro 29.92 ROC < 20,000 til 2,000' of TP
ROC 2000' to TP. Hold >1<10 min.

Ref.	Tol.±	Alt #1	Enc #1	Alt #2	Enc #2
-1000	20	-995	-1000	-1020	-1000
0	20	5	0	0	0
500	20	515	500	500	500
1000	20	1020	1000	1005	1000
1500	25	1515	1500	1505	1500
2000	30	2020	2000	2005	2000
3000	30	3000	3000	3005	3000
4000	35	4005	4000	4005	4000
6000	40	6025	6000	6005	6000
8000	60	8025	8000	8005	8000
10000	80	10035	10000	10005	10000
12000	90	12020	12000	12010	12000
14000	100	14025	14000	14005	14000
16000	110	16055	16000	16015	16000
18000	120	18020	18000	18025	18000
20000	130	20050	20000	20040	20000
22000	140	22045	22000	22045	22000
25000	155	25000	25000	25045	25000
30000	180	30050	30000	30080	30000
35000	205				

Friction (Table III)

ROC 750 fpm

Altitude	Tol. ±	Alt #1	Alt #2
1000	70	0	25
2000	70	0	25
3000	70	0	25
5000	70	0	30
10000	80	0	40
15000	90	0	30
20000	100	0	30
25000	120	0	90
30000	140	0	75
35000	160		

Baro Scale Error (Table IV)

Tolerance 25'

Baro.	Delta	Alt #1	Err. #1	Alt #2	Err. #2
28.10	-1727	3590	2	3595	-8
28.50	-1340	3970	-5	3975	-15
29.00	-863	4450	-2	4460	-7
29.50	-392	4920	-3	4930	-8
29.92	0	5315	0	5330	0
30.50	531	5835	-11	5850	-11
30.90	893	6195	-13	6225	2
30.99	974	6290	1	6300	-4

Case Leak (Table II)

< 100 fpm @ 18,000'

Hysteresis (Table II)

< 15 min after Scale Error reaches upper limit.
ROD > 5,000' < 20,000' to 3,000' of TP. ROD 3,000 to TP.
TP 50% & 40% of max > 1 < 10 min.

After Effect (Table II)

< 5 min. after hysteresis.

Test	Tolerance	Alt #1	Alt #2
Case Leak	100	0	0
Hysteresis 50%	75	0	25
Hysteresis 40%	75	15	20
After Effect	30	5	5

APPENDIX F - TRANSPONDERS

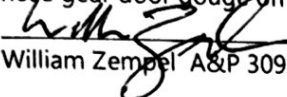
Test	#1	#2
Frequency 1090 ±3 MHz	1089.84	1091
Suppression		
P2 = P1 <1%	0	0
P2 9dB<P1 >90%	100	100
Receiver Sensitivity		
MTL -73dBm ±4dB	-72.1dBm	-76.0dBm
Mode A vs Mode C (1dB)	0.1dB	0.4dB
Power Output	209W	182W
Class 1A & 2A 125W		
Class 1B & 2B 75W		
All < 500W		

MTSWO-2

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

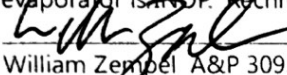
Mile High Aircraft Services LLC 37625 Astra WY Watkins, CO KFTG 303-261-4111
N521RM 6-10-2014 HM: 388.8

Removed and replaced nose gear lower strut bearing p/n 0821211-1. Installed new PolyPak seal, new scraper ring and new MS28775-228 o-ring. Serviced strut with 5606 fluid and nitrogen. Rigged nose doors for proper operation. Operational check of nose gear retraction is OK. Resealed sight gage tube on hydraulic reservoir. Removed and replaced boss fitting o-ring on left engine hydraulic pump out fitting. Repaired left nose gear door gouge on composite core ref AC 43.13-1B Chap 3.


 William Zempel A&P 3092523

Mile High Aircraft Services LLC 37625 Astra WY Watkins, CO KFTG 303-261-4111
N521RM 7-17-2014 HM: 401.8

Removed right alternator for repair by Quality Aircraft Accessories. Reinstalled alternator. Operational checks OK. Paralleling of left and right alternators is OK. Serviced air conditioning system with R12 freon. Removed air conditioning hydraulic manifold valve. Inspected, replaced filter and reinstalled. Drained air conditioning hydraulic reservoir. Serviced with 1 gal 5606 fluid. Operational checks OK on left evaporator. Right evaporator is INOP. Recrimped left engine fuel flow transducer connectors.


 William Zempel A&P 3092523

Date: 5/23/14 N521RM
 Tach/Hobbs: 383.3
 ACTT:

Midwest Aviation Services, Inc.
 PO Box 219 (270)744-8686 Ph.
 200 Hardy Roberts Dr. (270)744-3466 Fax
 West Paducah, KY 42086 midwest-aviation.com

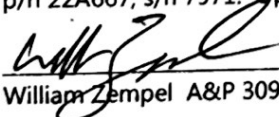
Replaced hydraulic reservoir sight tube.
 Serviced landing gear hydraulic system.
 Performed retraction and extension checks.
 Adjusted nose gear doors.
 Performed retraction and extension checks with no further discrepancies noted at this time.

The above work was performed in accordance with current regulations of the Federal Aviation Administration and is approved for return to service. Details are on file at this repair station under shop order 11337

SIGNATURE  for CRS MW8R657W

Mile High Aircraft Services LLC 37625 Astra WY Watkins, CO KFTG 303-261-4111
N521RM 1-27-2015 HM: 454.8 Left Engine

Removed left engine tach generator. Removed MS25038-2, s/n 103746. Installed Globe tach generator p/n 22A667, s/n 7971. Ops checks OK. Negligible change to weight and balance.


 William Zempel A&P 3092523

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Mile High Aircraft Services LLC. 37625 Astra Wy Watkins CO, 80137 303-261-4111
N521RM 4-29-2015 HM: 482.1 TTAF: 8425.8

This inspection performed in accordance with FAR 43 Appendix D. Tested ELT per FAR 91.207: checks OK
Removed and replaced right air conditioning expansion valve. Serviced air conditioning system with R-12 per
Cessna Air Conditioning Service Manual. Removed air conditioning hydraulic reservoir, removed, resealed and
re-installed condenser fan inlet door actuator. Reinstalled reservoir, and serviced. Tested landing emergency
extension with blow down bottle, ops checks OK. Reset hydraulic system to purge nitrogen and provide for
fluid operation. Removed, serviced and reinstalled gear blow down bottle. Hydro test on bottle due March
2017. Adjusted left engine throttle linkage to eliminate knob split at quadrant. Adjusted left engine mixture
linkage to eliminate knob split. Removed, re-sealed, serviced and re-installed shimmy damper. Adjusted left
gear torque link knee for proper clearance. Removed and replaced left and right fuel cap o-rings with
M25988/1 blue silicone O-rings. Removed and replaced left engine #2 Insight CHT probe.
Complied with AD 2000-1-16 Exhaust Insp paras (c) & (e) on right engine exhaust: no discrepancies noted.
Complied with AD 2014-03-03 Flight into Icing: N/A to "C" model 421 aircraft.

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


William Zempel A&P 3092523 IA

2456 Winchester Rd Hgr 14 Memphis, Tennessee 38116	Total Air Group CRS #: 21TR987Y	901-396-9707 901-396-9708 Fax
Airworthiness Release		
N: N521RM	S/N: 421C0335	W/O: MEM6301 Hobbs: 499.90
		TT: N/A Cycles: N/A
*INSTALLED NEW NOSE WHEEL ASSEMBLY, P/N: 40-140A, AND USED ORIGINAL TIRE AND TUBE FOR NOSE WHEEL. BALANCE NOSE WHEEL ASSEMBLY. WORK PERFORMED IN REFERENCE TO CESSNA 421 SM CHAPTER 4.—END—		
The work identified above under the w/o number was performed and inspected in accordance with current Federal Aviation Regulations and was found airworthy for return to service.		
AMT: 	Date: 6/17/15	
Page 1 of 1		

Mile High Aircraft Services LLC 37625 Astra WY Watkins, CO KFTG 303-261-4111
N521RM 5-27-2015 HM:

Remove and replaced shaver outlet inverter p/n EM242. Ops checks OK


William Zempel A&P 3092523

Mile High Aircraft Services LLC 37625 Astra WY Watkins, CO KFTG 303-261-4111
N521RM 9-16-2015 HM: 455.1 sum

Troubleshoot INOP left alternator. Determine bad alternator. Remove and replace alternator.
p/n ALV-9610, p/n H-9030674. Operational and leak checks OK. Removed and replaced left landing lamp.


William Zempel A&P 3092523

SUB-TOTALS this page

TOTALS—Carry forward to next page

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

ARAPAHOE AERO

12760 EAST CONTROL TOWER ROAD ENGLEWOOD, COLORADO 80112 (303) 799-8386
N521RM Cessna 421C S/N: 421C0335 Total Time: 8519.4

5 April 2016 Hobbs Meter: 575.7 Heater Hobbs: 2655.0
100 Hour/Annual Inspection completed this date using the Cessna 421C Maintenance Manual Inspection Form, the RAM Service Manual Supplement and Spoilers, Inc, Inspection Guide and Maintenance Supplement as a guide. Tested Dorne Margolin ELT 6 per FAR 91.207(d) using WS Technologies beacon measurement equipment, no defects noted, Beacon Test Report No. BT100AVtriple/3195/N521RM-3-10-16-1, dated 03-10-2016, on file. Installed new ELT battery p/n: BS2173. Next replacement due **March 2018**. Installed new filters in vacuum regulator valves p/n: ARB3-5-1. Next due **April 2017 or Hobbs: 675.7**. Adjusted rudder and aileron right interconnect cable block to prevent catching on stop. Installed required placards as needed. Secured placard on center instrument panel. Removed lower cabin door for repair of crack by rear hinge. Installed after repair by Straight Flight, Inc., CRS No. OMKR399L, their w/o # 8431, dated 03-28-2016. Installed new spring, p/n: 5111527-2 on lower cabin door latch. Inspected surface de-ice boots and system for components condition and security, operational check good. Replaced split patch on left wing de-ice boot outboard on nacelle. Installed flap motor, p/n: 9910055-1, s/n: 3074, overhauled by Aero Space Controls Corp., CRS# OJ2R059L, p/o 2289200, dated 03-03-2016. Inspected flap system for component security and verified flap settings and deflections. Inspected Spoilers, Inc. spoiler system per ICA for component security and operation. Checked spoiler system reservoir service level, operational check good. Performed 12 month cockpit fire extinguisher inspection. Inspected left and right engine fire extinguishing system for component condition and security. Installed two new Fire Bottle Cartridges, p/n: 13083-5, operationally checked ships system, no defects. Next cartridge replacement due: **April 2020**. Repaired right fuel bowl attach hole by tapping out to a #10 threads. Inspected, cleaned, resealed, and safetied fuel strainers. Charged aircraft battery. Placed aircraft on jacks and performed landing gear retraction and extension tests. Checked gear warning system, lights, and clearances. Performed emergency extension with no defects. Reset shuttle valve, serviced blow down bottle and installed. Serviced aircraft hydraulic system reservoir. Inspected nose and main landing gear doors for condition, security and proper closure. Inspected nose wheel and main wheel tires and serviced to specified pressures. Inspected main gear brake disks, calipers and linings for condition and security. Installed new insulator shims, p/n: 068-03100 for both main gear brakes. Serviced master cylinders, brake operational check good. Repaired ground wire to hydraulic load relay. Operated landing gear through six fault free cycles, no defects noted. Installed new air conditioning condenser baffle seals. Fabricated and installed new pilot's seat air conditioning cover bracket. Checked air condition system hydraulic reservoir service level. Inspected oxygen system for component condition and security. Repaired leak in aft oxygen outlet. Serviced Oxygen to 1850 psi. Fabricated .032 aluminum patch for aft wing skin right side trailing edge. Applied sealant under patch and riveted on. Primed and painted patch to match. Rigged right fuel selector IAW maintenance manual, operational check good. Reinstalled roll servo cable, P/N: 5000008-100, after repair by Auto Pilots Central, CRS #CM2R747K. Installed Yaw servo s/n: 2348, Pitch servo s/n: 6110702 and Roll servo s/n: 3200 after repairs by Butler Avionics Inc., CRS#TF2R185L, w/o# 71844 dated 03-17-2016. Tensioned bridle cables. Ground checks on autopilot and yaw damper good. Secured wire bundle in forward nose. Cleaned carpet fuzz and debris out left A/C evaporator. Fabricated repair for camlock channel on outboard right nacelle. Serviced main struts with nitrogen. Adjusted elevator cable tensions

SEE NEXT PAGE

ARAPAHOE AERO

12760 EAST CONTROL TOWER ROAD ENGLEWOOD, COLORADO 80112 (303) 799-8386
N521RM Cessna 421C S/N: 421C0335 Airframe Log Entry

8 August 2016 Hobbs Meter: 610.7
 Inspected air conditioning system and found compressor locked up. Removed hydraulic manifold and motor, compressor and receiver/dryer. Removed expansion valves and cleaned. Flushed entire system both directions to insure all debris was removed from system. Dried system with nitrogen. Re-installed expansion valves, compressor and overhauled compressor and receiver/dryer P/N: 9910157-5, S/N: J010315. Applied vacuum to system for at least 30 minutes. System held vacuum overnight. Installed new filter in hydraulic manifold. Installed new suction hoses for hydraulic system. Serviced hydraulic system with fresh 5606. Serviced air conditioning system with oil and 2.5 pounds R-12 Freon per service instructions. Operational check good, 25 degrees Fah enheit below outside air temperature.

[Handwritten Signature]

Eric R. Lundquist A&P 3442975 w/o 37028

DA

ARAPAHOE AERO

12760 EAST CONTROL TOWER ROAD ENGLEWOOD, COLORADO 80112 (303) 799-8386
 N521RM Cessna 421C S/N: 421C0335 Total Time: 8519.4

5 April 2016 Hobbs Meter: 575.7 Heater Hobbs: 2655.0

(Continued) (Page 2)

Complied with Cessna AD 2000-01-16 Exhaust Reliability effective 02-15-2000, by accomplishing Paragraphs (b) and (e) on left engine, paragraphs (b), (c), (d), (e), and (g) on right engine. Installed exhaust system components overhauled by Heliarc Welding Service Inc. CRS#VX3R935L, w/o#15862, dated 03-30-2016 on right engine. Next inspections due as follows:

Paragraph (b): Visual Inspection due every 50 hours:		Hobbs:	625.7
Paragraph (c): Tail Pipe Inspection due five years after overhaul and every 12 months thereafter:	Left:	April	2017
	Right:	April	2021
Paragraph (d): Visual Inspection of Beams, Bulkheads and Firewalls due every 500 hours:	Left:	Hobbs:	651.9
	Right:	Hobbs:	1075.7
Paragraph (e): Pressure Test Exhaust System every 12 months:		April	2017
Paragraph (f): Segmented Clamps every 500 hours:	Not Applicable		
Paragraph (g): Removal of exhaust system aft of slip joints for overhaul due every 12 years or 2500 hours:	Left:	April	2024
		Hobbs:	2651.9
	Right:	April	2028
		Hobbs:	3075.7

Complied with Kelly Aerospace AD 2004-21-05 Combustion Heater effective 11-19-2004, by performing pressure decay test, inspecting heater combustion tube, and performing operational test of combustion air pressure switch, no defects noted. Cleaned and gapped heater plug and performed combustion heater operational check, no defects noted. Next compliance due **April 2018** or **Hobbs: 2755**.
 Complied with Kelly Aerospace AD 2004-25-16 R1 Regulator Shut-off Valve, effective 06-20-2005, by visually inspecting the valve body for signs of fuel stains at diaphragm joint and threaded mounting holes, no evidence of fuel leakage noted. Next inspection due **April 2017** or **Aircraft Hobbs: 675.7**. AD's checked through **Biweekly 2016-07**. 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.

Eric R. Lundquist

Eric R. Lundquist IA 3442975 w/o 36514

Cessna / 421C N521RM Hobbs: 0588.0 May 16, 2016
 Transponder #1 Make/Model Garmin / GTX330 S.N. 84124933 and
 Transponder #2 Make/Model Garmin / GTX320 S.N. 83200686 in this
 A/C have been inspected IAW Title 14 CFR 91.413 and found to comply
 with the specifications of Title 14 CFR 43 App F.
 Altimeter #1 Make/Model ARC / EA-801, S.N. 1243,
 Altimeter #2 Make/Model United / 5934PA-3, S.N. 410391,
 Encoder #1 Make/Model TCI / SSD120-30-RS232, S.N. SRA8720,
 Encoder #2 Make/Model TCI / SSD120-30A, S.N. A57131, and
 Both Static Systems have been inspected IAW Title 14 CFR 91.411 and
 found to comply with the specifications of Title 14 CFR 43 App E.
 Details on file under MTSWQ 60520 CRS TJJR625X
 Dan Fisher-Chief Inspector *Dan Fisher* Date **5-16-2016**
 Mobile Transponder Services, LLC. 6015 W Condor Rd Peyton, CO 80831

ARAPAHOE AERO

12760 EAST CONTROL TOWER ROAD ENGLEWOOD, COLORADO 80112 (303) 799-8386
 N521RM Cessna 421C S/N: 421C0335 Airframe Log Entry

25 May 2016 Hobbs Meter: 589.1

Complied with Cessna AD 2016-07-24 (Elevator Trim Hardware) by installing new hardware. Trim operation checks good. Tied up vacuum hose under the instrument panel in the area of the elevator bellcrank pilot yoke.

Kevin Mosher

Kevin Mosher A&P 3443784 w/o 36775

SUB-TOTALS this page

TOTALS - Carry forward to next page

HOBBS: 612.0

Removed broken support cables from lower entry door and replaced with twisted link chain rated for 520lb working load limit. Connected chain to lower door struts with 480lb rated quick link. Adjusted door for proper operation.

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

rd from previous page

Eldon Holtz APP3617647 N/A
Eldon Holtz Certificate # Expires

8/27/2016 N521RM

HOBBS: 612.0

Removed and replaced left and right main gear tires with new Good Year Flight Custom III 6.50-10 8 ply tires and new Michelin Airstop 6.50-10 tubes.

Thomas R. Drake Owner
Thomas R. Drake

Cessna / 421C
Hobbs: 0374.8

Repaired wiring to pilot side clock. Ran new power wire to co pilot side clock.

Details on file under MTSWO 60928

Alan Spencer - Inspector Alan

Mobile Transponder Services, LLC. 6015 W Condor Rd, Peyton CO. 80831

N521RM

September 22, 2016

CRS TJJR625X

Date 9-22-2016

N521RM

11/3/2016

Complied with AD 2000-1-16 paragraph (b) this date both Left and Right engines. No defects noted. Next due at Hobbs 680.1.

Eldon Holtz APP3617647
Eldon Holtz

N# 521RM Date- 29-APR-16

Station #TF2R185L

Butler Avionics, Inc.
The aircraft and/or component identified was repaired in accordance with current federal air regulations and was found airworthy for return to service. Pertinent details of the repair are on file at this agency.

Signature Jerry E. Holly Repairman # 2587433

Hobbs/Tach _____ W.O.# MS04690

Action: R&R A/P COMPUTER, CONTROLLER (76805)
AND MODE SELECTOR FOR CHECK/REPAIR.
UPDATED GNS430 AND GMX200 S/W.

BA Form 012

SUB-TOTALS this page

TOTALS—Carry forward to next page

Page No. _____

DATE	TOTAL TIME IN SERVICE

1. Replaced left and right propeller deice brushes with 4 each Rapco RAB40189 brush clusters. Operational Check ok.
2. Replaced right landing light motor with new Grimes PN A6532. Operational check ok.
3. Complied with AD 2000-01-16 (d) by inspection of affected areas, no defects noted at this time. NEXT DUE AT HOBBS 1149.3

PERFORMED—
ON PERFORMING WORK

A&P 3217647
Certificate number

Eldon Holtz
Eldon Holtz

Registration: N521RM

Date: 2/3/2017

Hobbs: 650.2

Complied with AD 84-26-02 by replacing paper induction air filters left and right side with new Donaldson PN P10-8421 synthetic media filters. This eliminates the recurring portion of this AD, no further compliance required.

Certificate A&P3617647

Eldon Holtz

FRONT RANGE PILOT SERVICES

35701 Cessna Way, Watkins CO 80137

Registration: N521RM Cessna 421C Serial# 421C0335 Total Time: 8614.7
Date: 6/1/2017 Hobbs: 671.0 Heater Hobbs: 2682.4

100 hour/Annual inspection completed this date using Cessna 421C maintenance manual inspection form, Ram service manual supplement, and Spoilers Inc Inspection and maintenance supplements as a guide.

1. Replaced LH and RH brake lining with new PN RA066-06600.
2. Replaced RH brake disc assembly with new PN RA164-20306.
3. Bleed brakes and service reservoirs. Operational check normal.
4. Replaced LH and RH vacuum regulator filters with 2 new PN RA-B3-5-1 filters.
5. Replaced left engine vacuum pump with overhauled PN 441CC SN# 320175, by airpower accessories w/o 008436 used compressed air to clean the pressure side of the line from the deice valve to the vacuum pump. Operational check normal.
6. Co-pilot overhead spot light was inoperative. Found dirty connections, cleaned and resealed all connections. Operational test ok.
7. Applied 1 patch to left wing outboard deice boot, and 1 patch to left horizontal stabilizer deice boot.
8. Complied with AD 2004-25-16 R1 by visual inspection of valve body at the diaphragm joint and threaded mounting holes for evidence of fuel. No evidence of leaks noted. NEXT DUE: 6/30/18 OR HOBBS: 771.0
9. Complied with AD 2016-17-08 by visual inspection of elevator trim tab assembly hardware. The hardware requirements of this AD were accomplished through compliance with AD 2016-07-24. NEXT DUE: 6/30/18 OR HOBBS 781.0.
10. Complied with Cessna AD 2000-01-16 effective 02-15-2000, by accomplishing paragraphs (b),(c), and (e) on left engine exhaust and paragraphs (b) and (e) on the right engine exhaust. NEXT DUE AS FOLLOWS:

Paragraph (b): Visual inspection due every 50 hours.

Hobbs: 771.0

Paragraph (c): Tail pipe inspection due 5 years after overhaul and every 12 months thereafter.

Left: May 2018

Right: April 2021

Paragraph (d): Visual inspection of beams, bulkheads, and firewalls due every 500 hours:

Left: 1149.3

Right: 1075.7

Paragraph (e): Pressure test Exhaust System every 12 months:

May 2018

Paragraph (f): Segmented Clamps every 500 hours

N/A

11. Replaced Hydraulic system filters with 2 new Part# AN6235-2A filters, NEXT DUE AT HOBBS: 1071.0
12. Replaced Instrument air filter with new PN C-294501-0302. NEXT DUE AT HOBBS: 1171.0

I CERTIFY THAT THIS AIRCRAFT HAS BEEN INSPECTED IN ACCORDANCE WITH AN ANNUAL INSPECTION AND WAS DETERMINED TO BE IN AIRWORTHY CONDITION.

Eldon Holtz
ELDON HOLTZ

A&P3617647 IA
Certificate Number

Registration: N521RM
Date: 6/7/2017

Cessna 421C
Hobbs: 672.6

Serial# 421C0335 Total Time: 8616.3
Heater Hobbs: 2682.4

DAT

1. Replaced aircraft battery this date with new Concord PN RG24-20. All tests ok.

[Signature]

CP2806237

DRK

TOTALS brought forward from previous page

Cessna / 421C
Hobbs: 0671.2

N521RM
June 14, 2017

Transponder #1 Make/Model Garmin / GTX330 S.N. 84124933 was removed for upgrade to ES reference Garmin RMA 94462955. Transponder reinstalled in this A/C and inspected IAW Title 14 CFR 91.413 and found to comply with the specifications of Title 14 CFR 43 App F.

Cockpit avionics fan inop and removed from aircraft and reinstalled after overhaul by Globe Motors ref w.o R0015114.

Details on file under MTSWO 70415

Dan Fisher-Chief Inspector *[Signature]* Date 6-14-2017
Mobile Transponder Services, LLC. 6015 W Condor Rd Peyton, CO 80831
Phone: 719-251-8251

CRS TJJR625X

Registration: N521RM
Date: 7/6/2017

Cessna 421C
Hobbs: 682.8

Serial# 421C0335 Total Time: 8626.5
Heater Hobbs: 2682.4

Removed LH and RH Lamar voltage regulators PN 9910126-3, SN 5064 & 14430 and over voltage relays PN 9910068-2 SN 7944 & 80D74103. Installed 2 NEW PMA Hartzell Engine technologies (Plane Power) R1224B voltage regulators with built in overvoltage relays in the LH and RH positions. PN R1224B SN H-Q110843 & H-R022111. All wiring labeled, ground wires from the overvoltage relays terminated, battery and field wires from the LH and RH relays spliced together respectively to complete the circuit. Instructions for continued airworthiness added to the logbooks and POH. W&B change negligible. Performed ground run as required to set the appropriate voltage output for each regulator. All tests ok. This aircraft is approved for return to service.

[Signature: Eldon Holtz]
Eldon Holtz

A&P3617647

Date: 10/28/2017; Aircraft: N521RM; Type: 421; S/N: 421C0335
Hobbs Time: 704.3

Towed aircraft into hanger. Charged battery for one hour at five amps. Operational checks good. L/H Engine— Removed vac pump. P/N 441cc S/N 320175 and installed Overhauled vac pump P/N 441cc S/N 320176.
Ops and leak checks good on run-up.

The aircraft, engine, propeller, or appliance identified above was repaired and/or inspected in accordance with current regulations of the Federal Aviation Administration and was determined airworthy and approved for return to service. Pertinent details of the repair are on file at this repair station under W/O # 17-43724, dated 10-28-2017.

Signed *[Signature: DRB]*

Tom Wood Aviation, Inc./Indianapolis Metropolitan Airport
9913 Willow View Rd, Fishers, IN 46038
FAA Certified Repair Station CRS #1TWR915M

SUB-TOTALS this page

TOTALS—Carry forward to next page

Cessna / 421C
 Hobbs: 0696.6
 Removed Garmin GTX 330 transponder S.N. 83200686 and sent to Garmin for ADS-B upgrade.
 Reinstalled Garmin GTX 330 transponder and updated wiring I/A/W STC SA01714WI as recorded on Form 337 dated 8/28/2017.
 Replaced transponder pigtail coax.
 Details on file under MTSWO 70865
 Alan Spencer - Inspector Alan Spencer Date 8-28-2017
 Mobile Transponder Services, LLC. 6015 W Condor Rd. Peyton, CO 80831
 Phone: 719-251-8251

N521RM
 August 28, 2017

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

forward from previous page

Registration: N521RM Cessna 421C Serial# 421C0335 Total Time: 8655.6
 Date: 11/4/17 Hobbs: 711.9 Heater Hobbs: 2692.5

1. Replaced propeller deice brushes on the left engine – right side of the block with new Rapco PN 40189.
2. Repaired left side rear nose baggage door support bracket
3. Replaced all 7 static wicks with new PN 16165.

Eldon Holtz
 Eldon Holtz A&P3617647

CESSNA 421C

AIRFRAME LOG

G-FORCE AVIATION INC

REGISTRATION : N521RM
 Hobbs. Time: 718.0
 Tach. Time: N/A
 Date: 12/5/2017

5430 Lauby Rd. Bldg. # 17
 Canton OH. 44720
 Ph. 330-499-9790
 CRS#G25R150C

LH wing, leading edge corrosion. Per Cessna 421C SRM along with DIRECT TO AVIATION SERVICES, INC DOCUMENT No. WI_421C-0335, repaired LH wing leading edge assembly as required. Form 8110-3 attached as required.

The aircraft and/or component listed above was repaired & inspected in accordance with current regulations of the Federal Aviation Administration and is approved for return to service. Pertinent details of the repair are on file at G-Force Aviation CRS#G25R150C under work order # G1345 I certify that this aircraft has been determined to be in airworthy condition.

Signature [Signature] Date 12-5-17

Goodrich De-icer Service Center		6051 West Airport Drive, North Canton Ohio 44720	Phone: 330-784-5477
Date:	12/06/2017	GOODRICH	REPAIR STATION #NZ1R366K
Tail #:	N521RM		WORK ORDER #: 11423
Serial #:	421C0035		
Aircraft Make & Model:	Cessna 421C		
Aircraft Total Time:	HM 718.0		
De-icer Part Numbers:		Description of Work Performed:	MISC HARDWARE:
PN: 275-7D5070-11, SN: NDX4110		Removed and replace L/H and R/H OTBD wing	
PN: 275-7D5070-15, SN: NDV7940		and L/H horizontal stabilizer de-icers IAW	
PN: 275-7D5070-16, SN: NDW2550		Cessna Model 421C Maintenance Manual	
		Rev-23 and Goodrich Manual 30-10-31 Dated	
		6/6/2012	
THE MAINTENANCE DESCRIBED ABOVE HAS BEEN INSPECTED AND APPROVED FOR RETURN TO SERVICE. DATE: <u>12-06-2017</u> INSPECTOR SIGNED <u>[Signature]</u> GOODRICH AIRCRAFT SERVICE CENTER AKRON CANTON REGIONAL AIRPORT REPAIR STATION #NZ1R366K W.O. # <u>11423</u> (330) 784-5477			

Complied with Cessna AD 2000-01-16 effective 02-15-2000, by accomplishing paragraphs (b) and (e) on left and right engine exhaust. NEXT DUE AS FOLLOWS:

- Paragraph (b): Visual inspection due every 50 hours. Hobbs: 775.0
- Paragraph (c): Tail pipe inspection due 5 years after overhaul and every 12 months thereafter. Left: May 2018 Right: April 2021
- Paragraph (d): Visual inspection of beams, bulkheads, and firewalls due every 500 hours: Left: 1149.3 Right: 1075.7
- Paragraph (e): Pressure test Exhaust System every 12 months: 12/2018
- Paragraph (f): Segmented Clamps every 500 hours: N/A

Eldon Holtz
Eldon Holtz

A&P3617647

Cessna / 421C N521RM Hobbs: 0742.6 May 23, 2018
 Transponder #1 Make/Model Garmin / GTX330 S.N. 84124933 and
 Transponder #2 Make/Model Garmin / GTX320 S.N. 83200686 in this A/C have
 been inspected IAW Title 14 CFR 91.413 and found to comply with the specifications
 of Title 14 CFR 43 App F.
 Altimeter #1 Make/Model ARC / EA-801, S.N. 1243,
 Altimeter #2 Make/Model United / 5934PA-3, S.N. 410391,
 Encoder #1 Make/Model TCI / SSD120-30-RS232, S.N. SRA8720,
 Encoder #2 Make/Model TCI / SSD120-30A, S.N. A57131, and
 Both Static Systems have been inspected IAW Title 14 CFR 91.411 and found to
 comply with the specifications of Title 14 CFR 43 App E.
 Details on file under MTSW 80534
 Alan Spencer - Inspector Date: 5-23-2018
 Mobile Transponder Services, LLC. 6015 W Condor Rd Peyton, CO 80831

SCRIP
CERT
ard fr

AND REMOVED SYN - 559, REPLACED ALBERGER SONALIGHT
AND RAMP CHECKED VOR AND ALT ALBERGER OPERATIONAL

Action: INSTALLED EXCHANGE HARBOR SN-2476
W.O.# MDD9330 (78948)

Butler Avionics, Inc.
The aircraft and/or component identified was repaired in accordance with current federal air regulations and was found airworthy for return to service. Pertinent details of the repair are on file at this agency.
Signature: *Jerry [Signature]*
Hobbs/Tach: _____
Repairman # 2587423

#- N521RM Date- 16-AUG-17

FRONT RANGE PILOT SERVICES
35701 Cessna Way, Watkins CO 80137

Registration: N521RM Cessna 421C Serial# 421C0335 Total Time: 8686.3
Date: 6/1/2018 Hobbs: 742.6 Heater Hobbs: 2702.9

1. Replaced LH and RH brake linings with 16 new PN RA066-06600.
2. Removed and replaced landing gear emergency blow down bottle after hydrostatic test by Fire Safety Services, Denver, CO work order dated 5/29/2018. NEXT DUE 5/2023.
3. Removed and Replaced LH and RH engine compartment fire extinguishers HTL PN 30111102 SN's 01840A & 01846A after overhaul and hydrostatic test by Compressed Gas Systems, Cerritos, CA. NEXT DUE 6/2023.
4. Installed new ELT battery MERL PN BP1020. NEXT DUE 7/2020.

This aircraft is approved for return to service.

Eldon Holtz
ELDON HOLTZ

A&P3617647

Registration	N521RM	Cessna	421C	Serial#	421C0335	TT	8693.0
Date	6-25-18	Hobbs	740.3				
Replaced aircraft battery with concord PN AG24-20 SN 40942734							
SUB-TOTALS this page							
TOTALS—Carry forward to next page							

Thom Dicks
owner

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

**N521RM (Aircraft Logs)
Cessna 421C s/n 421C0335**

Repair:

Repaired left and right inboard fuel bays at W.S. 119.29 and outboard from front to rear spar. Found corrosion through wing skins. Disassembled wing section and unriveted lower inboard wing skins areas. Cleaned existing old sealant from area and unbonded various stringer to skins and skin to internal rib junctions. Cleaned areas of corrosion on left and right wings using procedures in Cessna MEB95-11R1 Section 10. On left wing cut and cut out forward (11 x 10) and aft (15 x 13) inboard corners of lower skins. On right wing cut out forward (11 x 10) inboard corner of lower skin. Cleaned exposed surface of Sta 119.29 rib lower flange with "Scotchbright" pads (note minimal material removal) Following cleaning zygo inspected section of exposed wing rib flanges for cracks. Rebonded lower wing skin to stringers with EA9303 structural adhesive. Treated exposed areas as necessary. Fabricated doublers shims and patches and riveted with replaced existing rivets and added rivets per applicable sections of MEB95-11 R1 Figure 5. All reassembled area sealed area with Fay sealed CS3204. Cleaned and coated joints and rivets with sealant CS3204 per Maintenance manual instructions. Reinstalled removed internal structures, and equipment and performed initial leak check. (see repair 337 form this date)

Alteration:

Cut upper wing access panels and fit inspection plate doublers per DER drawings #421C-57-1 dated 10/31/2018 with approval by Thomas Knott DERT-405106-CE 8110-3 dated 10/31/2018. (see alteration 337 form this date)


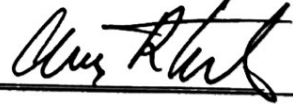
DATE **12/20/2018** HOBBS **754.8** Aircraft **TT 8698.5**
 The aircraft identified was repaired and/or serviced in accordance with current Federal Aviation Administration regulations and is hereby approved for return to service with respect to work performed.

Anthony R. Saxton AP32537461A *[Signature]*



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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
				N521RM (Aircraft Logs) Cessna 421C s/n 421C0335
				Inspected aircraft as required by FAR91.409 (a) (1) per inspect. checklist meeting requirements of FAR 43.15 (c)(2) and FAR 43 App. D. Performed post inspection operational checks per FAR43.15 (c)
				Added external data plate per requirements of CFR45.11 para. (e)
				Inspected and tested ELT as required by FAR 91.207(d). ELT battery due date July 2020.
				Reinstalled 3AA Oxygen bottle following Hydrostatic test per DOT 49 CFR, 3AA by Turboprop East (DOT C945) W.O.# HYD-1756 (Next O2 Hydrostat due Aug 2023)
				Cleaned surface corrosion on upper gear tunnel in baggage compartment and treated and primed.
				Reset fuel quantity gauge empty settings and refueled.
				Replaced battery box drain fairing with fabricated unit. Repaired battery ground cable termination and airframe with new terminal end and attach hardware.
				Replaced right side landing light with OVH 45-0148-9 s/n 3077 light assy
				Replaced right aileron drive pin #5565384-3 and bearing #KSP5A Rechecked aileron travel to specs. Reset aileron trim on let side to spec.
				Reset flap down travel and down cable tension, reset up/down safety switches. Reset elevator trim travel to specs. Reset rudder trim cable tension and travel deflection to specs. Replaced elevator trim horn attach screws with new MS35206-256.
				Resealed forward pressure bulkhead at wiring pass throughs as necessary. Replaced right wing pressurization feed duct with new CM3211-10B38.0 and CM3211-10B9.5 and heat exchanger dust #CM3213-10-120.0 Replaced nose bay heater duct #5117257-1. Replaced defroster duct # 5117257-2. Replaced cabin A/C duct #5117257-2.
				Replaced 3 light dimmer potentiometers #CM3535-1.
				Replaced and installed #068-02800 brake shim. Replaced left brake disc with new disc #RA164-20306 Replaced one nose wheel spacer #5842010-1.
				Operational checked and normal and emergency extended landing gear system per Cessna Maintenance manual requirements.
				Installed new gaskets and Orings on cabin heater strainer in right wing root.
				CW AD 95-09-13 Effective Date 06/14/95 Fuel Float Valves (Supersedes AD93-05-03)
				CW Para (a) (2) float valve test left & right wing per Cessna MEB93-10. (Due each 600 hr. Next Due Hobbs 1354.8 /Acft TT 9298.5)
				CW AD2018-03-03R1 eff. 5/23/18 Lower forward carry through spar inspection on left and right side.
				Initial Inspection due per para (J) at aircraft TT 12,000.
				CWAD 2004-25-16R1 eff. Date 6/20/2005 (Supersedes AD2000-17-13 and 200-08-01) Kelley Aerospace Heater Fuel Regulator
				By visual inspection and leak check Due again in 100 hr. aircraft time or 12 months at Hobbs 854.8 or Jan 2020.
				CWAD2016-17-08 eff. Sept. 12, 2016 (supersedes AD2016-07-24) Elevator Trim Hardware.
				CW Para (f) (1) Initial replacement of hardware per Cessna MEB-27-02 Rev 1 step 3-6. PCW
				CW Para (f) (2) 110 hr./OR annual inspection of hardware. (Due again 864.8 or Jan. 2020)
				Para (f) (3) . Replacement due at any part removal event per Cessna MEB-27-02 Rev. 1 step 4-6.
				CW AD2000-01-16 Effective Date Feb 15, 2000 (Supersedes AD75-23-08R5) Exhaust system inspection.
				CW Para (b) exhaust visual inspection Left and right engine. (Due again in 50 hr. at hobbs. 804.8)
				CW para (c) tailpipe inspection:
				Left/ Right: Removed and inspected and reinstalled. OK (Next due in 12 months at Jan 2020)
				CW para (e) Pressure test exhaust system. No damage found (Due again in 12 calendar months Jan 2020)
				CW AD2004-21-05 eff. Date 11/19/2004 (Supersedes AD 96-20-07) Janero heater test.
				Performed Pressure Decay and operational test due per Para (1). (Note :Air pressure switch test NA by installed unit)
				Current heater hobbs reads 2707.9 due in 100 hr of heater time or 24 months (Due heater 2807.9 or Jan 2021)
				AD2018-03-03R1 eff. 5/23/18 Lower forward carry through spar inspection on left and right side.
				Initial Inspection due per para (J) at aircraft TT 12,000.

DATE 1/2/2019	HOBBS 754.8	Aircraft TT 8698.5
The aircraft identified was repaired and/or serviced in accordance with current Federal Aviation Administration regulations and is hereby approved for return to service with respect to work performed.		
"I CERTIFY THAT THIS AIRCRAFT HAS BEEN INSPECTED IN ACCORDANCE WITH AN ANNUAL INSPECTION AND WAS DETERMINED TO BE IN AIRWORTHY CONDITION."		
 TAS AVIATION, INC. Twin Cessna Specialists www.tas-aviation.com	Anthony R. Saxton AP32537461A	

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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

**N521RM (Aircraft Logs)
Cessna 421C s/n 421C0335**

Inspected aircraft as required by FAR91.409 (a) (1) per inspect. checklist meeting requirements of FAR 43.15 (c)(2) and FAR 43 App. D. Performed post inspection operational checks per FAR43.15 (c)

Inspected and tested ELT as required by FAR 91.207(d). ELT battery due date July 2020.

Replaced left side vacuum regulator #2H3-5. Replaced several short sections of vacuum lines (Mil H600) in left side. Reset vac. to 5.1 in. Rerigged and lubed left side alternate air control cable. Checked spoilers for operation. Operated 50+ times in various temps and found no faults. Checked left side aft transfer tank for ops. Replaced tank transfer switch with serviceable O&N Modification switch ON-1. Function tested transfer OK.

Replaced left wing pressure heat radiator to cabin connector duct tubing. Replaced faulty right wing root pressure duct retention clamp. Sealed various previous wire pass throughs with CS3204-B1/2 sealant. Repositioned pilots vent window seal.

Cleaned and reset right MLG uplock switch. Serviced Hydraulic reservoir.

Operational checked and normal landing gear system per Cessna Maintenance manual requirements.

-Removed left wing lower repair skin patches previously installed on 12/20/2018. Cleaned fay seal areas and checked for corrosion pits or non-sealed structure. Cleaned out various areas of pitted internal waffle doubler, treated, repaired with EA9309 and resealed. Cleaned side wall areas to top of tank areas in forward inboard area. Refabricated repair doublers matching type thickness and size of previously installed doublers. Reinstalled with same style, size, location as original repair. Fay sealed, and edge sealed with CS3204-B2. Oversealed brush coat area with CS3204 ClassA-2 and Top sealed with AMS-S-4383 per direction in Cessna 421/&25 Manual Section 28 fuel tank sealant and Chem Seal CS3204 Technical Bulletin Jan 2007. . Reassembled equipment removed from area. Closed and leak checked tank.

CW AD 95-09-13 Effective Date 06/14/95 Fuel Float Valves (Supersedes AD93-05-03)

CW Para (a) (2) float valve test left & right wing per Cessna MEB93-10. (Due each 600 hr. Next Due Hobbs 1358.7 /Acft TT 9302.4)

CWAD 2004-25-16R1 eff. Date 6/20/2005 (Supersedes AD 2000-17-13 and 200-08-01) Kelley Aerospace Heater Fuel Regulator

By visual inspection and leak check Due again in 100 hr. aircraft time or 12 months at Hobbs 858.7 or March 2020.

CWAD2016-17-08 eff. Sept. 12, 2016 (supersedes AD2016-07-24) Elevator Trim Hardware.

CW Para (f) (1) Initial replacement of hardware per Cessna MEB-27-02 Rev 1 step 3-6. PCW

CW Para (f) (2) 110 hr./OR annual inspection of hardware. (Due again 868.7 or March 2020)


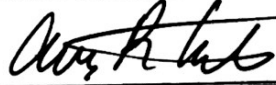
Para (f) (3). Replacement due at any part removal event per Cessna MEB-27-02 Rev. 1 step 4-6.

CW AD2000-01-16 Effective Date Feb 15, 2000 (Supersedes AD75-23-08R5) Exhaust system inspection.

CW Para (b) exhaust visual inspection Left and right engine. (Due again in 50 hr. at hobbs. 808.7)

CW para (c) tailpipe inspection:
Left/ Right: Removed and inspected and reinstalled. OK (Next due in 12 months at March 2020)

CW para (e) Pressure test exhaust system. No damage found (Due again in 12 calendar months March 2020)

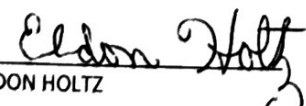
DATE	3/14/2019	HOBBS 758.7	Aircraft TT 8702.4
The aircraft identified was repaired and/or serviced in accordance with current Federal Aviation Administration regulations and is hereby approved for return to service with respect to work performed.			
"I CERTIFY THAT THIS AIRCRAFT HAS BEEN INSPECTED IN ACCORDANCE WITH AN ANNUAL INSPECTION AND WAS DETERMINED TO BE IN AIRWORTHY CONDITION."			
 <p>TAS AVIATION, INC. Twin Cessna Specialists www.tas-aviation.com</p>	 Anthony R. Saxton AP32537461A		

FRONT RANGE PILOT SERVICES
35701 Cessna Way, Watkins CO 80137

Registration: N521RM Cessna 421C Serial# 421C0335 Total Time: 8720.1
Date: 6/21/2019 Hobbs: 776.4 Heater Hobbs:

1. Replaced Left Engine and Right Engine fire bottle cartridges (squibs) with new PN M13083-5, next due 2/1/2029.

This aircraft is approved for return to service.


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