



Date: 09/01/04

On above referenced aircraft, installed RAM overhauled engines L-808306 and R-292324.R and new McCauley 3FF32C501 propellers. Installed RAM/FAA/PMA 1719-3 synchrophase system. See 337. Installed Shadin Fuel Flow Indicating System per STC SA5796SW. Transducer installation per STC SE5726SW. Re-installed analog fuel flow gauge. Installed Alcor range-marked EGT gauge P/N 46158 per STC SA522SW. Replaced left and right engine EGT probes and leads. Installed red silicone impregnated fiberglass baffle material on each engine. FAA-PMA replacement baffles. C/W AD 2000-01-16 by removal of the exhaust system from the slip joints aft. Installed new RAM/FAA/PMA stainless steel exhaust slip joints P/N 1001-3 with new springs and hardware on left and right engines I/A/W STC SA4592SW. Installed new left and right turbo wyes P/N 8294-15; left S/N 18071-0003, right S/N 18071-0001. Installed new left and right wastegate elbows P/N K9910300-3, left S/N 130085, right S/N 135193. Installed new left and right wastegate elbow to tailpipe clamps P/N 2266C050-240-N. Installed new left and right overboard tailpipes; left P/N K9910300-01, S/N 134537, right P/N K9910300-02 S/N 132710. Installed new left and right tailpipe clamps P/N 2274-50. Installed overhauled left and right wastegate valve assy's. Installed new right turbo mount bracket P/N 2024-2. Installed overhauled turbochargers P/N 465930-0003; left S/N HER00279, right S/N HER00275. Installed overhauled left engine exhaust risers P/N 9910295-16, S/N AWI66405 and P/N 9910295-15, S/N AWI76662. Installed overhauled right engine exhaust riser P/N 9910295-16, S/N AWI76663. Re-installed existing right engine exhaust riser P/N 9910295-15. C/W Para (b) by visual inspection and found to be serviceable. Next visual inspection per Para (b) due in 50 hours TIS or 30 calendar days, whichever occurs later. C/W Para (c) by installation of new exhaust tailpipes. Next removal and visual inspection per Para (c) due within 5 years. C/W Para (d) by inspection of the outboard engine beams and canted bulkheads. Replaced loose rivets on top of left nacelle outboard beam from rear mount leg aft as needed. Repair left nacelle inboard beam I/A/W RAM Dwg. 2613. See 337. Replaced loose rivets on top of right nacelle inboard and outboard beams from rear mount legs aft as needed. Re-torque all mount leg to beam bolts which were found to be loose See 337 for repair approval. Re-inspection per Para (d) due each 500 hours TIS. C/W Para (e) by visual inspection and pressure test of left and right exhaust systems. System checked satisfactory at this time. Re-inspection per Para (e) due each 12 calendar months. C/W Para (g) by installing new exhaust system from the slip joints aft. Repetitive compliance due at 2,500 hours TIS or 12 years, whichever occurs first. Installed range-marked EGT, CHT, oil temperature and pressure gages I/A/W STC SA5878SW. Flight Manual Supplement dated 2/1/85 furnished. Installed new Aeroquip integral firesleeved fuel, oil and hydraulic hoses meeting TSO-C53A Type D and TSO-C75 Type III on each engine. Installed new pressurizations ducts P/N CM3211-10B9.5 in left and right wing stubs. Installed improved engine cooling baffles and exhaust slip joints per STC SA4592SW. Installed new prop de-ice brushes on left engine. Installed new throttle cable P/N 1220-37 on left engine P/N 120-38 on right engine. Installed new propeller cable P/N 122041 on left engine, P/N 1220-42 on right engine. Installed new mixture cables P/N 1220-39 on left engine P/N 1220-40 on right engine. Adjust right outboard flap per Service Manual to close fully. C/W AD 84-26-02 per replacement of air filters. RAM Aircraft recommends air filters to be replaced every 300 hours or annual with mandatory log entry required. Installed overhauled vacuum pump P/N 3P207JA, S/N PED8003 on left engine. Installed new air conditioner hydraulic pump P/N 2434RAB. Installed overhauled right landing light assembly S/N A11-2976. Negligible weight and balance change. Aircraft is approved for return to service for work performed. Pertinent details on file under project no. 1567.

RAM Aircraft, Limited Partnership, P.O. Box 5219, Waco, Texas 76706 CRS VA1R551K

				SUB-TOTALS this page
				TOTALS—Carry forward to next page

DATE	TOTAL TIME IN SERVICE	TOTAL TIME SINCE OVERHAUL	TACH OR RECORDING METER TIME
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Date: 11-01-2004

N # 31C

Model: Cessna 421C

S/N #: 0096

Removed existing aircraft battery, instr completed, good.

Rich Hasse

A&P 396640773

*Rich Hasse*  
A&P 3966407

☒ Wisconsin Aviation - Madison  
3606 Corben Court  
Madison, WI 53704  
608-268-5003

N31C 01-25-05 HC  
C/W CESSNA S/B MEB89-1  
INSTALLATION FOR PILC  
LEAKING-RE-PACKED NO  
STEVEN D. ROJ  
A&P 5463

Airframe

N31C 02-07-05 HOBBS  
L/ALTERNATOR INOP. R

SERVICABLE ALTERNATOR P/N ALV9510 S/N 2000149 REF. M/M 24-30.

OPS CHECK GOOD.

STEVEN D. ROBINSON  
A&P 546377518

## BFGoodrich Aviation Service Center Reboot Program

MISC. HARDWARE

DESCRIPTION OF WORK PERFORMED:

REPLACE PNEUMATIC DE-ICERS

IAW BFG MANUAL ATA 30-10-31.

AIRCRAFT: CESSNA 421C

NUMBER: N31C

SERIAL NO: 0096

DATE: 11-10-04

AC TIME: HOBBS: 222.5

DE-ICER BOOT P/N: P27S-7D5070-07

P27S-7D5070-08

P27S-7D5070-11

P27S-7D5070-11

P27S-7D5070-14

**REBOOT**

THE MAINTENANCE DESCRIBED ABOVE HAS  
BEEN INSPECTED AND APPROVED FOR  
RETURN TO SERVICE. DATE: 11-10-04  
INSPECTOR SIGNED: *[Signature]*  
GOODRICH AIRCRAFT SERVICE CENTER  
AKRON CANTON REGIONAL AIRPORT  
REPAIR STATION #NZ1R366K  
W.O. # 8900  
(330) 764-5477

**BFGoodrich**  
Aerospace

BFGoodrich Aviation Service Center • P.O. Box 267 • Green, OH 44232

SUB-TOTALS this page

TOTALS—Carry forward to next page

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Error: *[Signature]*

No.



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DATE

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SINCE  
OVERHAULTACH OR  
RECORDING  
METER  
TIMEDESCRIPTION OF WORK PERFORMED—  
SIGNATURE & CERTIFICATE NO. OF PERSON PERFORMING WORK

Date: 11-01-2004

N # 31C

Model: Cessna 421C

S/N #: 0096

Removed existing aircraft battery, installed Gill G-243 aircraft battery, s/n GO2095952. Function check completed, good.

Rich Hasse

A&amp;P 396640773

Aircraft Log Entry

HOBBS: 219.9

☒ Wisconsin Aviation - Madison  
3606 Corben Court  
Madison, WI 53704  
608-268-5003



☐ Wisconsin Aviation - Watertown  
1741 River Drive  
Watertown, WI 53094  
920-261-4567

## Airframe Logbook Insert

N31C 01-25-05 HOBBS HOURS 242.8  
C/W CESSNA S/B MEB89-3 SEAT BACK REINFORCING STRAP  
INSTALLATION FOR PILOT & CO-PILOT SEATS. FOUND NOSE STRUT  
LEAKING-RE-PACKED NOSE STRUT REF. CESSNA M/M 32-30  
STEVEN D. ROBINSON  
A&P 546377518

## Airframe Logbook Insert

N31C 02-07-05 HOBBS HOURS 255.5  
~~L/ALTERNATOR INOP. REMOVED OLD ALTERNATOR & INSTALLED~~  
~~SERVICABLE ALTERNATOR P/N ALV9510 S/N 21100149 REF. M/M 24-30.~~  
~~OPS CHECK GOOD.~~

STEVEN D. ROBINSON  
A&P 546377518

2/7/05  
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Error  
3/2

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
				<b>TOTALS</b> brought forward from previous page

2-15-05 N31C HOBBS: 261.1

**AIRFRAME**

Serviced A/C system with 2 lbs of R12 refrigerant, system ops checked good. I CERTIFY, WITH RESPECT TO THE WORK PERFORMED, THAT THIS AIRFRAME IS APPROVED FOR RETURN TO SERVICE. RECORDS ARE ON FILE AT THIS AGENCY UNDER INV# 3120 WO M239.

SIGNED *Brendley King*  
 AVIATION TECHNOLOGY  
 1141 STANDIFORD AVE.  
 LOUISVILLE INTERNATIONAL AIRPORT  
 LOUISVILLE, KY 40213

FOR, CRS# AYTR297X  
 (502) 361-7130  
 (502) 361-7140 FAX  
 CRS# AYTR297X

Date: 3/14/2005, Aircraft: N31C

\*\*\*\* Airframe Log Entry \*\*\*\* ID 322

MAKE: CESSNA

ACCT:

ETT:

MODEL: 421C

TACH:

ETSO:

S/N: 421C0098

HOBBS: 268.8

PTT:

YEAR: 1976

OFFSET:

PTSO:

Inspected air conditioning system, replaced compressor, removed p/n 83903, a/n 1037012400, installed a/n 0940312389, serviced with 2.5 lbs. of R12 freon, ground ran aircraft, checked for leaks, operational check good with no leaks noted.

James Bennett  
 A&P 2809547

☒ Wisconsin Aviation - Madison  
 3606 Corben Court  
 Madison, WI 53704  
 608-268-5003



☐ Wisconsin Aviation - Watertown  
 1741 River Drive  
 Watertown, WI 53094  
 920-261-4567

**Airframe Logbook Insert**

N31C

7-08-05 TACH: 317.1 TOTAL TIME: 4585.0 HEATER HOBBS: 678.9

C/W AD 95-09-13 BY INSPECTION OF WING FLOAT VALVES IAW MEB93-10R1.  
 C/W AD 2000-01-16 BY VISUAL INSPECTION REMOVING AND INSPECTION TAIL PIPE  
 AND PRESSURE CHECKING EXHAUST IAW PAR. B,C & E. C/W AD 81-09-09 BY  
 VISUAL INSPECTION OF CABIN HEATER. C/W AD 84-26-02 BY INSTALLING NEW  
 INDUCTION AIR FILTERS. BLT 106 S/N 14510 WAS INSPECTED ON THIS DATE IAW  
 FAA ACTION NOTICE AND FOUND TO MEET THE REQUIREMENTS OF FAR 91.207(D).  
 NEXT DUE REPLACEMENT JUNE 06. INSTALLED NEW OXYGEN CYLINDER AND  
 OVERHAULED REGULATOR. SERVICED O2 AND LEAK CHECK GOOD. CLEANED  
 AND LUBED ALL WHEEL BEARINGS. ADJUSTED MAIN GEAR TOE IN AND LEFT  
 UPLOCK SWITCH. RETRACTION CHECK GOOD. INSTALLED VACUUM RELIEF AND  
 SYSTEM MAIN FILTERS. CHANGED ALL THREE HYDRAULIC FILTERS AND ALL  
 BOOT FILTERS. CLEANED FUEL FILTERS. I CERTIFY THAT THIS AIRCRAFT HAS  
 BEEN INSPECTED I/A/W AN ANNUAL INSPECTION AND FOUND TO BE IN  
 AIRWORTHY CONDITION.

LESLIE A. BLOUNT  
 IA 363502653

*Leslie A Blount*

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**TOTALS**—Carry forward to next page

1. Approving National Aviation Authority/Country:			AUTHORIZED RELEASE CERTIFICATE FAA FORM 8130-3, AIRWORTHINESS APPROVAL TAG			1033812		
2. Organization:			FAA/UNITED STATES Cessna Aircraft Company Cessna Parts Distribution Dept. 702 5800 E Pawnee, Wichita, KS 67218			3. Work Order/Contract/Invoice Number: 525887		
4. Item Description:			5. Part Number:			6. Eligibility:		
1 KNOB			1520B			414		
7. Quantity:			8. Serial/Part Number:			9. Status/Work:		
1 N/A			N/A			New		
10. Remarks:								
AIRWORTHINESS APPROVAL - PARTS. THIS FORM IS NOT AN EXPORT APPROVAL.								
PO# 4495								

N31C  
 7-12-05 TACH: 318.5  
 INSTALLED NEW  
 HEAT EXCHANGER CC

ORDER: 1033818N/LOT: N/A  
 ITEM: 1  
 PN: 1520B  
 QTY: 1  
 U/M: EA  
 DESC: KNOB

11. Certifies the items identified above were manufactured in conformity to:		12. 14 CFR 43.9 Return to Service <input type="checkbox"/> Other regulation specified in block 13	
<input checked="" type="checkbox"/> Approved design data and are in a condition for safe operation.		Certifies that unless otherwise specified in Block 13, the work described in Block 12 and described in Block 13 was accomplished in accordance with Title 14, Code of Federal Regulations, part 43 and in respect to that work, the items are approved for return to service.	
13. Approved Signature:		14. Approval Authorization No.:	
KENNETH E. WYSOCKI SR.		100129CE	
15. Name (Typed or Printed):		16. Date (m/d/y):	
KENNETH E. WYSOCKI SR.		0DARF JUL/11/2005	
17. Authorized Signature:			
18. Approved Signature:			
19. Name (Typed or Printed):			
20. Date (m/d/y):			
User/Installer Responsibilities It is important to understand that the existence of this document alone does not automatically constitute authority to install the part/component/assembly. Where the user/installer performs work in accordance with the national regulations of an airworthiness authority different than the airworthiness authority of the country specified in Block 1, it is essential that the user/installer ensures that his/her airworthiness authority accepts part/component/assembly from the airworthiness authority of the country specified in Block 1. Statements in Blocks 14 and 19 do not constitute installation certification. In all cases, aircraft maintenance records must contain an installation certification issued in accordance with the national regulations by the user/installer before the aircraft may be flown.			

AIRTRONICS, INC FAA CRS JM5R977M		Phone 715-823-2161 Fax 715-823-2163		P.O. BOX 297 CLINTONVILLE, WI 54929	
Updated EX-500 S.B. SW 530-00163-000, S/N B1114 and installed XMD076 XM Datalink and connected Digiflo to GNS 530 and installed KI-207 CDI repeater for #2 GNS 430 on Co-pilots side and moved Co-pilots HSI NSD-360 to pilots side per AC 43.13 - 1B and 2A, and manufacturers instructions. Revised weight and balance reflects this installation and entered into aircraft records.					
-----END-----					
The aircraft and/or component identified hereon was repaired and inspected in accordance with current federal aviation regulations and was found airworthy for return to service.					
Date 9/27/05		W.O. 19811		Signed	

### Airframe Logbook Insert

N31C  
 10-2-05 HOBBS 344.6  
 REMOVED ALL 3 MAIN LANDING GEAR TIRES REF. CESSNA M/M.  
 INSTALLED 3 NEW SERVICABLE GOODYEAR FLIGHT CUSTOM TIRES  
 REF. CESSNA M/M. RE-PACKED ALL WHEEL BEARINGS REF. CESSNA M/M.  
 STEVEN D. ROBINSON  
 A&P 546377518


SUB-TOTALS this page  
 TOTALS—Carry forward to next page

ge No. \_\_\_\_\_

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

## Airframe Logbook Insert

N31C

7-12-05 TACH: 318.5

INSTALLED NEW UPPER CABIN DOOR LIFT STRUT AND NEW RIGHT CABIN  
HEAT EXCHANGER CONTROL CABLE AND KNOB.

LESLIE A. BLOUNT  
AP 363502653

*Leslie A. Blount*

## AC LOG ENTRY

AIRTRONICS, INC  
FAA CRS JM5R977M

Phone 715-823-2161  
Fax 715-823-2163

P.O. BOX 297  
CLINTONVILLE, WI 54929

Updated EX-500 S.B. SW 530-00163-000, S/N B1114 and installed XMD076  
XM Datalink and connected Digiflo to GNS 530 and installed KI-207  
CDI repeater for #2 GNS 430 on Co-pilots side and moved Co-pilots  
HSI NSD-360 to pilots side per AC 43.13 - 1B and 2A, and manufacturers  
instructions. Revised weight and balance reflects this installation  
and entered into aircraft records.

-----END-----

The aircraft and/or component identified hereon was repaired and inspected in accordance with current  
federal aviation regulations and was found airworthy for return to service.

Date 9/27/05

W.O. 19811

Signed

*[Signature]*

## Airframe Logbook Insert

N31C

10-2-05

HOBBS 344.6

REMOVED ALL 3 MAIN LANDING GEAR TIRES REF. CESSNA M/M.  
INSTALLED 3 NEW SERVICABLE GOODYEAR FLIGHT CUSTOM TIRES  
REF. CESSNA M/M. RE-PACKED ALL WHEEL BEARINGS REF. CESSNA M/M.

STEVEN D. ROBINSON  
A&P 546377518

*[Signature]*

SUB-TOTALS this page

TOTALS—Carry forward to next page



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				TOTALS brought forward from previous page

**Airframe Logbook Insert**

N31C

11-29-05 HOBBS 382.7

NOTICABLE 'HISSING' NOISE IN COCKPIT. REMOVED INST. PANEL  
GLARESHIELD & FOUND CHAFED VACUUM LINE. REPAIRED VACUUM  
LINE REF.AC 43-13-1A. APPLIED SYSTEM VACUUM-NO 'HISSING'  
NOTED.RE-INSTALLED INSTRUMENT PANEL GLARESHIELD.

STEVEN D. ROBINSON

A&amp;P 546377518

**Airframe Logbook Insert**

N31C

12-29-05 HOBBS 383.9

NOSE STRUT SHOWING SIGNS OF LEAKAGE. RE-PACKED NOSE STRUT AS  
REQ.

STEVEN D. ROBINSON

A&amp;P 546377518

**Airframe Logbook Insert**

N31C

01-06-06 HOBBS 384.4

PILOT REPORTED L/ALTERNATOR FELL OFF LINE IN FLIGHT. INSPECTED  
L/ALTERNATOR-FOUND BROKEN FIELD TERMINAL. REPAIRED FIELD  
TERMINAL REF. AC 43-13.1C. OPS CHECK GOOD.

STEVEN D. ROBINSON

A&amp;P 546377518

**Airframe Logbook Insert**

N31C

5-30-06 TACH: 465.3

INSTALLED OUTFLOW VALVE CONTROLLER SERIAL NUMBER 40-1652.  
REPAIRED BY CABIN AIR SYSTEMS.

LESLIE A. BLOUNT

A&amp;P 363502653

SUB-TOTALS this page

TOTALS—Carry forward to next page

N31C

Pilot

**ALTIMETER, STATIC AND TRANSPONDER CERTIFICATE**AIRTRONICS, INC.  
FAA CRS JM5H977M

715-823-2161

P.O. BOX 297  
CLINTONVILLE, WI 54929

DATE

TEST ALT. X 1000 FT.	-1	0	5	1	1.5	2	3	4	6	8	10	12	14	16	18
TOL. ± FT.	20	20	20	20	25	30	30	35	40	60	80	90	100	110	120
ACTUAL ± FT.	Ø	Ø	-5	-5	-10	-10	-15	-20	-30	-20	-15	-20	-30	-30	-45
TEST ALT. X 1000 FT.	20	22	25	30	35	40	45	50	CASE LEAK	HYSTERSIS TOL. +75 FT.	ALTIMETER				
TOL. ± FT.	130	140	155	180	205	230	255	260	TOL. OK	50% MAX.	Make <u>United</u>				
ACTUAL ± FT.	-50	-40	-50	-45	+90				100 FT TEMP C	40% MAX.	Model <u>5934PA-1</u>				
									23		S/N <u>198865</u>				

CERTIFIED ALTIMETER PER FAR 43 APP. E. TO 35,000 FT.

CERTIFIED AIRCRAFT STATIC SYSTEMS PER FAR 91.411 (a) (1).

PERFORMED TRANSPONDER TEST REQUIRED BY FAR 91.413 (a) (c) AND 91.217 (b) IN  
ACCORDANCE WITH FAR 43 APP. F.TRANSPONDER MODEL Garmin GTX327 S/N 83705657The Aircraft and/or component identified hereon was repaired and inspected in accordance with  
the current maintenance rules of the Federal Aviation Regulations, and is airworthy and approved for  
return to serviceDate 5-17-06 W.O. 19556 Signed Kurt Harrington

BLIND ENCODER

Make Trans-CalModel SSD-120-R5232S/N SRA-7026

#2 TRANSPONDER

Make GarminModel GTX327S/N 83711049

N31C

Co-PLT

**ALTIMETER, STATIC AND TRANSPONDER CERTIFICATE**AIRTRONICS, INC.  
FAA CRS JM5H977M

715-823-2161

P.O. BOX 297  
CLINTONVILLE, WI 54929

TEST ALT. X 1000 FT.	-1	0	5	1	1.5	2	3	4	6	8	10	12	14	16	18
TOL. ± FT.	20	20	20	20	25	30	30	35	40	60	80	90	100	110	120
ACTUAL ± FT.	-15	Ø	Ø	Ø	Ø	+5	+10	+10	+10	Ø	-10	-15	-20	-15	-10
TEST ALT. X 1000 FT.	20	22	25	30	35	40	45	50	CASE LEAK	HYSTERSIS TOL. +75 FT.	ALTIMETER				
TOL. ± FT.	130	140	155	180	205	230	255	260	TOL. OK	50% MAX.	Make <u>United</u>				
ACTUAL ± FT.	Ø	+10	+45	+40	+170				100 FT TEMP C	40% MAX.	Model <u>5934PA-3</u>				
									23		S/N <u>423259</u>				

CERTIFIED ALTIMETER PER FAR 43 APP. E. TO 35,000 FT.

CERTIFIED AIRCRAFT STATIC SYSTEMS PER FAR 91.411 (a) (1).

PERFORMED TRANSPONDER TEST REQUIRED BY FAR 91.413 (a) (c) AND 91.217 (b) IN  
ACCORDANCE WITH FAR 43 APP. F.TRANSPONDER MODEL GTX327 Garmin S/N 83705657The Aircraft and/or component identified hereon was repaired and inspected in accordance with  
the current maintenance rules of the Federal Aviation Regulations, and is airworthy and approved for  
return to serviceDate 5-17-06 W.O. 19556 Signed Kurt Harrington

BLIND ENCODER

Make Trans-CalModel SSD120-R5232S/N SRA-7026

#2 TRANSPONDER

Make GarminModel GTX327S/N 83711049

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

### Airframe Logbook Insert

N31C

7-06-06 HOBBS TIME: 482.1 TOTAL TIME: 4750.0 HEATER HOBBS: 732.9

C/W AD 2000-01-16 BY VISUAL INSPECTION REMOVING AND INSPECTION TAIL PIPE AND PRESSURE CHECKING EXHAUST IAW PAR. B,C & E. C/W AD 81-09-09 BY VISUAL INSPECTION OF CABIN HEATER. ELT 106 S/N 14510 WAS INSPECTED ON THIS DATE IAW FAA ACTION NOTICE AND FOUND TO MEET THE REQUIREMENTS OF FAR 91.207(D). INSTALLED NEW BATTERY NEXT DUE REPLACEMENT AUG 08. SERVICED O2. CLEANED AND LUBED ALL WHEEL BEARINGS AND INSTALLED NEW OUTER BEARINGS ON MAIN WHEELS. INSTALLED VACUUM RELIEF AND SYSTEM MAIN FILTERS. CHANGED ALL THREE HYDRAULIC FILTERS AND ALL BOOT FILTERS. CLEANED FUEL FILTERS. INSTALLED NEW AIRCONDITIONING HYD PRESSURE SWITCH. INSTALLED NEW CABIN DOOR CABLES. INSTALLED ALL FIVE HEATER HOSES. ADJUSTED PITCH TRIM RIGGING. I CERTIFY THAT THIS AIRCRAFT HAS BEEN INSPECTED I/A/W AN ANNUAL INSPECTION AND FOUND TO BE IN AIRWORTHY CONDITION.

LESLIE A. BLOUNT  
IA 363502653

*Leslie A Blount*

### Airframe Logbook

08-15-2006  
N31C  
S/n: 421C0096

TACH: 4766.0  
Hobbs: 498.1

LETT: 1309.6 RETT: 14.32.8  
LETSO: 333.6 RETSO: 333.6  
LPTT: new RPTT: new  
LPTSO: 333.6 RPTSO: 333.6

Removed and replaced left wing root pressurization duct with new p/n CM3211-10B38.0 and CM3211-10B9.5. All work performed in accordance with applicable manuals.

Wyat Hatz A&P2706256

*Wyat Hatz*

### Airframe Logbook

03-09-2007  
N31C  
Cessna 421C  
s/n: 421C0096

ACTT: 4844.6  
Hobbs: 576.7

LETT: 1388.2  
LETSO: 412.2  
LPTT: 412.2  
LPTSO: new

RETT: 1511.4  
RETSO: 412.2  
RPTT: 412.2  
RPTSO: new

Complied with AD2000-01-16 (Exhaust System, last revised 1/10/2000) part b by visual inspection - no defects noted, next due 4894.6 ACTT. All Work performed in accordance with applicable manuals.

Wyat Hatz A&P2706256

*Wyat Hatz*

SUB-TOTALS this page

TOTALS—Carry forward to next page

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				TOTALS brought forward from previous page

**Airframe Logbook**

06-11-2007      ACTT: 4892.2      LETT: 1435.8      RETT: 1559.0  
 N31C            Hobbs: 624.3      LETSO: 459.8      RETSO: 459.8  
 Cessna 421C      LPTT: 459.8      RPTT: 459.8  
 s/n: 421C0096      LPTSO: new      RPTSO: new

Removed and replaced existing compass with new vertical car compass p/n PAI-700 s/n 63554 from Precision Aviation, Inc. using new mounting bracket p/n PACMO-APZ21 and performed compass swing. All Work performed in accordance with applicable manuals.

Wyat Hatz A&P2706256 *[Signature]*

**Airframe Logbook**

06-15-2007      ACTT: 4892.2      LETT: 1435.8      RETT: 1559.0  
 N31C            Hobbs: 624.3      LETSO: 459.8      RETSO: 459.8  
 Cessna 421C      LPTT: 459.8      RPTT: 459.8  
 s/n: 421C0096      LPTSO: new      RPTSO: new

Complied with AD2000-01-16 (Exhaust System, last revised 1/10/2000) part b by visual inspection – removed and replaced elbow clamp p/n 2266C050-240-M on right engine with new no other defects noted, next due 4942.2 ACTT. All Work performed in accordance with applicable manuals.

Wyat Hatz A&P2706256 *[Signature]*

**Airframe Logbook Insert**

N31C

7-06-07 HOBBS TIME: 629.8 TOTAL TIME: 4897.7 HEATER HOBBS: 783.3

C/W AD 2000-01-16 BY VISUAL INSPECTION REMOVING AND INSPECTION TAIL PIPE AND BEEMS AND FIREWALL AND PRESSURE CHECKING EXHAUST IAW PAR. B,C,D & E.. ELT 106 S/N 26906 WAS INSTALLED AFTER OVERHAUL AND INSPECTED ON THIS DATE IAW FAA ACTION NOTICE AND FOUND TO MEET THE REQUIREMENTS OF FAR 91.207(D) NEXT DUE REPLACEMENT AUG 09. SERVICED O2. NITROGEN BLOW DOWN BOTTLE WAS HYDROSTATIC CHECKED NEXT SUE 7-20012. CLEANED AND LUBED ALL WHEEL BEARINGS AND ROTATED MAIN TIRES. INSTALLED NEW BRAKE DISCS AND LINEINGS. INSTALLED VACUUM RELIEF AND SYSTEM AND MAIN FILTER. CHANGED ALL THREE HYDRAULIC FILTERS AND ALL BOOT FILTERS. CLEANED FUEL FILTERS. INSTALLED NEW DOOR SEAL ON EMERGENCY EXIT AND RIGHT REAR FLOOR DRAIN SEAL AND REPLACED LEFT INBOARD HEAT EXCHANGER PRESURIZATION TUBE. INSTALLED BOTH PROPS AFTER RESEAL AT AIRCRAFT PROPELLERS. NEW DEICE BRUSHES INSTALLED LEFT SIDE. I CERTIFY THAT THIS AIRCRAFT HAS BEEN INSPECTED I/A/W AN ANNUAL INSPECTION AND FOUND TO BE IN AIRWORTHY CONDITION.

LESLIE A. BLOUNT

IA 363502653

*Leslie A Blount*

SUB-TOTALS this page

TOTALS—Carry forward to next 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

**AC LOG ENTRY**

AIRTRONICS, INC  
FAA CRS JM5R977M

Phone 715-823-2161  
Fax 715-823-2163

P.O. BOX 297  
CLINTONVILLE, WI 54929

REWIRED G.S. - FLAG AND G.S. DOWN AND NAV-FLAG  
AND TFROM TO KISSA HSI GHS530W, SEC 55X  
BECAUSE OF GHS530W WAS UPGRADE. GROUND  
CHECKED SYSTEM. END

The aircraft and/or component identified hereon was repaired and inspected in accordance with current federal aviation regulations and was found airworthy for return to service.

Date 10/10/2007 W.O. 20548 Signed 

**Airframe Logbook**

10-29-2007

ACTT: 4942.0

LETT: 1485.6

RETT: 1608.8

N31C

Hobbs: 674.1

LETSO: 509.6

RETSO: 509.6

Cessna 421C

LPTT: 509.6

RPTT: 509.6

s/n: 421C0096

LPTSO: new

RPTSO: new

Complied with AD2000-01-16 (Exhaust System, last revised 1/10/2000) part b by visual inspection - defects noted, next due 4992.0 ACTT. All Work performed in accordance with applicable manuals.

Wyat Hatz A&P2706256 

**Airframe Logbook**

01-28-2008

ACTT: 4970.9

LETT: 1514.5

RETT: 1637.7

N31C

Hobbs: 703.0

LETSO: 538.5

RETSO: 538.5

Cessna 421C

Heater Hobbs: 809.2

LPTT: 538.5

RPTT: 538.5

s/n: 421C0096

LPTSO: new

RPTSO: new

Removed and replaced aircraft heater assembly with overhauled unit p/n 8472C/E s/n 292 and fuel pump/blower assembly p/n 721972 from Harold Haskins, Inc. c/n IS4R269M w/o 4302 and 33441. Complied with AD81-09-09 (Combustion Heater, last revised 5/8/81) by overhaul and visual inspection of heater, lines, wires, and components, next due 1059.2 heater hobbs and overhaul at 1809.2 heater hobbs. All Work performed in accordance with applicable manuals.

Wyat Hatz A&P2706256 

SUB-TOTALS

1. Approving National Aviation Authority / Country

FAA/United States

2.

**AUTHORIZED RELEASE CERTIFICATE**

FAA Form 8130-3, AIRWORTHINESS APPROVAL TAG

4. Organization Name and Address:

Harold Haskins, Inc.  
116 Race Track Rd.  
Dothan, AL 36303-0911  
U.S.A.(334) 983-5185  
(334) 983-3189  
FAX (334) 983-4770

6. Item	7. Description	8. Part Number	9. Eligibility	10. Quantity	11. Serial / Batch Number
1 END	HEATER ASSEMBLY	8472C/E	N/A	1	292

13. Remarks

OVERHAULED I/AW SOUTH-WIND SERVICE MANUAL 09-1015, 04/75. FUNCTIONAL TEST OK.  
END

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

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

19. ☒ 14 CFR 43.9 Return to Service ☐ C

Certifies that unless otherwise specified in Block 13 was accomplished in accordance with Regulations, Part 43 and in respect to that work service.

15. Authorized Signature

16. Approval/Authorization No.:

20. Authorized Signature

17. Name (Typed or Printed)

18. Date (m/d/y).

22. Name (Typed or Printed)

Harold Haskins

**User/Installer Responsibilities**

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

Where the user/installer work in accordance with the national regulations of an airworthiness authority different than the airworthiness authority of the country specified in Block 1, the user/installer ensure that his/her airworthiness authority accepts parts/components/assemblies from the airworthiness authority of the country specified in Block 1.

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

FAA Form 8130-3, 7-79

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

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

**Airframe Logbook**

02-11-2008      ACTT: 4990.7      LETT: 1534.3      RETT: 1657.5  
 N31C            Hobbs: 722.8      LETSO: 558.3      RETSO: 558.3  
 Cessna 421C      LPTT: 558.3      RPTT: 558.3  
 s/n: 421C0096      LPTSO: new      RPTSO: new

Complied with AD2000-01-16 (Exhaust System, last revised 1/10/2000) part b by visual inspection – no defects noted, next due 5040.7 ACTT. All Work performed in accordance with applicable manuals.

Wyat Hatz A&P2706256 

**Airframe Logbook Insert**

N31C

2-21-08 HOBBS TIME: 728.6

REPLACED ALL THREE HYDRAULIC HOSES AND TWO MS 28778-8  
 PACKINGS IN AIRCONDITIONING BAY IN RIGHT NACELLE. GROUND RUN  
 LEAK CHECK GOOD.

LESLIE A BLOUNT

A&P 363502653 

**Airframe Logbook**

02-27-2008      ACTT: 4997.9      LETT: 1541.5      RETT: 1664.7  
 N31C            Hobbs: 730.0      LETSO: 565.5      RETSO: 565.5  
 Cessna 421C      LPTT: 565.5      RPTT: 565.5  
 s/n: 421C0096      LPTSO: new      RPTSO: new

Removed and replaced packing ring p/n 0841211-1, poly seal p/n A2748, and o-ring MS28775-228 in the nose strut and serviced nose strut with MIL-H-5606 and nitrogen. All Work performed in accordance with applicable manuals.

Wyat Hatz A&P2706256 

SUB-TOTALS this page

TOTALS—Carry forward to next page



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

Pilot N31C

### ALTIMETER, STATIC AND TRANSPONDER CERTIFICATE

AIRTRONICS, INC.  
FAA CRS JM5R977M

715-823-2181

P.O. BOX 287  
CLINTONVILLE, WI 54629

TEST ALT. X 1000 FT.	-1	0	.5	1	1.5	2	3	4	6	8	10	12	14	16	18
TOL. ± FT.	20	20	20	20	25	30	30	35	40	60	80	90	100	110	120
ACTUAL ± FT.	-5	-5	-10	-15	-15	-15	-20	-25	-30	-25	-20	-20	-35	-45	-50
TEST ALT. X 1000 FT.	20	22	25	30	35	40	45	50	CASE LEAK	HYSTERSIS TOL. +75 FT.	ALTIMETER				
TOL. ± FT.	130	140	155	180	205	230	255	260	TOL. OK	50% MAX.	Make <u>United</u>				
ACTUAL ± FT.	-55	-55	-65	-70	+90				-100 FT.	+25	Model <u>5934PA-1</u>				
									TEMP. C	40% MAX.	S/N <u>M8865</u>				

CERTIFIED ALTIMETER PER FAR 43 APP. E. TO 35,000 FT.

CERTIFIED AIRCRAFT STATIC SYSTEMS PER FAR 91.411 (a) (1).

PERFORMED TRANSPONDER TEST REQUIRED BY FAR 91.413 (a) (c) AND 91.217 (b) IN ACCORDANCE WITH FAR 43 APP. F.

TRANSPONDER MODEL GTX327S/N 83705657

The Aircraft and/or component identified hereon was repaired and inspected in accordance with the current maintenance rules of the Federal Aviation Regulations, and is airworthy and approved for return to service.

Date 4-28-2008 W.O. 20682Signed Kurt Hanningto

BLIND ENCODER

Make Trans CalModel SSP120-R5232S/N SRA-7026

#2 TRANSPONDER

Make GarrinModel GTX 327S/N 83711049

Capilot N31E

### ALTIMETER, STATIC AND TRANSPONDER CERTIFICATE

AIRTRONICS, INC.  
FAA CRS JM5R977M

715-823-2181

P.O. BOX 287  
CLINTONVILLE, WI 54629

TEST ALT. X 1000 FT.	-1	0	.5	1	1.5	2	3	4	6	8	10	12	14	16	18
TOL. ± FT.	20	20	20	20	25	30	30	35	40	60	80	90	100	110	120
ACTUAL ± FT.	-20	-15	-10	-10	-10	+5	+5	+5	-10	-15	-15	-20	-20	-20	-20
TEST ALT. X 1000 FT.	20	22	25	30	35	40	45	50	CASE LEAK	HYSTERSIS TOL. +75 FT.	ALTIMETER				
TOL. ± FT.	130	140	155	180	205	230	255	260	TOL. OK	50% MAX.	Make <u>United</u>				
ACTUAL ± FT.	-10	-5	+15	+60	+100				-100 FT.	+30	Model <u>5934PA-3</u>				
									TEMP. C	40% MAX.	S/N <u>SRA-7026423159</u>				

CERTIFIED ALTIMETER PER FAR 43 APP. E. TO 35,000 FT.

CERTIFIED AIRCRAFT STATIC SYSTEMS PER FAR 91.411 (a) (1).

PERFORMED TRANSPONDER TEST REQUIRED BY FAR 91.413 (a) (c) AND 91.217 (b) IN ACCORDANCE WITH FAR 43 APP. F.

TRANSPONDER MODEL See other page

S/N

The Aircraft and/or component identified hereon was repaired and inspected in accordance with the current maintenance rules of the Federal Aviation Regulations, and is airworthy and approved for return to service.

Date 4-28-2008 W.O. 20682Signed Kurt Hanningto

BLIND ENCODER

Make Trans CalModel SSP120-R5232S/N SRA-7026

#2 TRANSPONDER

Make See other page

Model

S/N

SUB-TOTALS this page

TOTALS—Carry forward to next page

United States

Organization: J. A. Air Center  
30000 Pavia Road  
DuPage Airport  
West Chicago, IL 60185

Part Number: 4000763-3101

RT131A

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

TOTAL TIME IN SERVICE: \_\_\_\_\_

TOTAL TIME SINCE OVERHAUL: \_\_\_\_\_

TACH OR RECORDING METER TIME: \_\_\_\_\_

DESCRIPTION OF WORK PERFORMED: \_\_\_\_\_

SIGNATURE & CERTIFICATE NO. OF PERSON: \_\_\_\_\_

TOTALS brought forward from previous page

performed in accordance with Maintenance Manual 6006-055-1-0004 REV 4 OCT 01

on Work Order #212108

over listed component is reinstalled in the aircraft it becomes the installer's responsibility

parts must be accompanied by maintenance history including total in

withheld

the new or newly overhauled parts identified above, except as otherwise specified

the parts to be repaired, the special requirements of the

19. FAA Authorization No.

20. Date:

understand that the existence of this document alone does not automatically constitute

the FAA Form 8130-3 and JAA Form One are equivalent. Other countries

Name (Typed or Printed): \_\_\_\_\_

Authorized Signature: \_\_\_\_\_

Non-approved design data specified in block 1

Approved design data and are in conformance with the requirements of the FAA

Certifies the items identified above were maintained in accordance with the requirements of the FAA

All repaired or replaced G

FAA Form 8130-3 (8-01)

When the undersigned performs work on an aircraft, it is essential that the undersigned be properly identified in Block 1. It is essential that the undersigned be properly identified in Block 1. It is essential that the undersigned be properly identified in Block 1.

### AC LOG ENTRY

AIRTRONICS, INC  
FAA CRS JM5R977M  
Phone 715-823-2161  
Fax 715-823-2163  
CLINTONVILLE, P.C.

REMOVED RT131A 941800 KANAK T/K FOLL  
BEYOND REPAIR, INSTALLED OVERHAUL RT13  
AND GROUND CHARGED

END

The aircraft and/or component identified hereon was repaired and inspected in accordance with federal aviation regulations and was found airworthy for return to service.

Date 04/21/08 W.O. 20672 Signed [Signature]

### Airframe Logbook

05-28-2008 ACTT: 5041.4 LETT: 1585.0 RE  
N31C Hobbs: 773.5 LETSO: 609.0 RE  
Cessna 421C LPTT: 609.0 RP  
s/n: 421C0096 LPTSO: new RP

Complied with AD2000-01-16 (Exhaust System, last revised 1/10/2000) per inspection - no defects noted, next due 5091.4 ACTT. All Work performed in: applicable manuals.

Wyat Hatz A&P2706256 [Signature]

### Airframe Logbook Insert

N31C

7-17-08 HOBBS TIME: 777.8 TOTAL TIME: 5045.7 HEATER HOBBS: 846.6

C/W AD 2000-01-16 BY VISUAL INSPECTION REMOVING AND INSPECTION TAIL PIPES AND PRESSURE CHECKING EXHAUST AND INSPECTING BEAMS AND FIREWALL IAW PAR. B,C,D & E. C/W AD84-1 INSTALLING TWO NEW INDUCTION AIR FILTERS. ELT 106 S/N 26906 V INSPECTED ON THIS DATE IAW FAA ACTION NOTICE AND FOUND TO COMPLY WITH THE REQUIREMENTS OF FAR 91.207(D) NEXT DUE REPLACEMENT AN OXYGEN BOTTLE WAS HYDROSTATIC CHECKED. SERVICED O2. FIRE EXTINGUISHER BOTTLES WERE HYDROSTATIC CHECKED NEXT DUE CLEANED AND LUBED ALL WHEEL BEARINGS AND INSTALLED NEW TIRES. INSTALLED ALL NEW MAIN TORQUE LINK BUSHINGS AND CH ALIGNMENT. INSTALLED NEW LEFT NOSE GEAR DOOR FORWARD RETRACTION LINK BRACKET. RETRACTION CHECK GOOD.

(CONTINUED)



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				

### Airframe Logbook Insert (CONTINUATION)

N31C

7-17-08 HOBBS TIME: 777.8 TOTAL TIME: 5045.7 HEATER HOBBS: 846.6

INSTALLED VACUUM RELIEF AND SYSTEM MAIN FILTER. CHANGED ALL THREE HYDRAULIC FILTERS AND ALL BOOT FILTERS. CLEANED FUEL FILTERS. INSTALLED NEW CABIN HEAT DUCT UNDER CENTER OF CABIN FLOOR. REMOVED AND REINSTALLED RIGHT ENGINE AND PROP AFTER WORK DONE ON ENGINE AT RAM. NEW DEICE BRUSHES INSTALLED RIGHT SIDE. I CERTIFY THAT THIS AIRCRAFT HAS BEEN INSPECTED I/A/W AN ANNUAL INSPECTION AND FOUND TO BE IN AIRWORTHY CONDITION.

LESLIE A. BLOUNT  
IA 363502653

*Leslie A. Blount*

### Airframe Logbook Insert

N31C

8-22-08 HOBBS TIME: 777.8 TOTAL TIME: 5062.8

INSTALLED OVERHAULED NOSE GEAR RETRACTION ACTUATOR PART NUMBER 9910139-9 SERIAL NUMBER 1016. RETRACTION LEAK CHECK GOOD.

LESLIE A. BLOUNT  
A&P 363502653

*Leslie A. Blount*

AIRTRONICS, INC.  
FAA CRS JM5R977M

### AC LOG ENTRY

PHONE 715-823-2161  
FAX 715-823-2163

P. O. BOX 297  
CLINTONVILLE, WI 54929

Removed Pitch Servo, sent in for repair. Replaced repaired Pitch Servo P/N0108-P4 S/N 9536DE and reset bridle cable tension. -----END-----

The aircraft and/or component identified hereon was repaired and inspected in accordance with current federal aviation regulations and was found airworthy for return to service.

Date 09-24-2008

W.O. 20815

Signed

*Kurt Harrington*


TOTALS—Carry forward to next page




Number: \_\_\_\_\_  
 or Invoice Number: \_\_\_\_\_  
 1572  
 Work: \_\_\_\_\_

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

### Airframe Logbook

11-03-2008 ACTT: 5081.3 LETT: 1624.9 RETT: 1748.1  
 N31C Hobbs: 813.4 LETSO: 648.9 RETSO: 648.9  
 Cessna 421C LPTT: 648.9 RPTT: 648.9  
 s/n: 421C0096 LPTSO: new RPTSO: new  
 Complied with AD2000-01-16 (Exhaust System, last revised 1/10/2000) part b by visual inspection -- no defects noted, next due 5131.3 ACTT. All Work performed in accordance with applicable manuals.  
 Wyatt Hatz A&P2706256 

### Airframe Logbook

03-25-2009 ACTT: 5130.2 LETT: 1673.8 RETT: 1797.0  
 N31C Hobbs: 862.3 LETSO: 697.8 RETSO: 697.8  
 Cessna 421C LPTT: 697.8 RPTT: 697.8  
 s/n: 421C0096 LPTSO: new RPTSO: new  
 Complied with AD2000-01-16 (Exhaust System, last revised 1/10/2000) part b by visual inspection -- no defects noted, next due 5180.2 ACTT. All Work performed in accordance with applicable manuals.  
 Wyatt Hatz A&P2706256 

### Airframe Log

N31C 09/04/09 Hobbs 889.0 A/CTT: 5156.9

Completed an Annual Inspection in accordance with Heartland Aviation annual inspection checklist. Replaced vacuum relief filters with new B3-5-1. Replaced hydraulic filters with new AN6235-2A. Replaced left alternator with overhauled unit from Aerotech of Louisville inc P/N ALV-9510 S/N A804040 W.O 90532 Ran up ops check good. Replaced right fuel crossfeed shutoff cable with new P/N 9910245-6. Replaced right turbocharger with overhauled unit from Ram Aircraft, Waco TX. P/N 465930-9003 S/N TAR0101R W.O 52935. Replaced oxygen blow out disc indicator with new P/N CM3578-1. Reshimmed left main landing gear trunnion with new P/N 0841004-3. Replaced nose wheel steering bellcrank with new P/N 5942001-1. Replaced left and right support web and shims for nose landing gear attachment. P/N 5213040-9, 5213040-10, 5013049-1. Ops check good. Replaced elevator trim tab hinge with new P/N 5034000-27. Installed new grommet for hater fuel pump drain. Replaced nose wheel bolt with new P/N AN5-55. Replaced left and right brake pads with new P/N RA66-66. Resecured elevator trim cables per Cessna maintenance manual. Replaced elevator trim horn bushing with new P/N S3895-1. Replaced right wastegate to exhaust wye gasket with new P/N 652456. Replaced left and right air intake cowl seal with new P/N 5155168-7. Complied with FAR91.207(d) ELT inspection, by visual inspection and operational check, Ok at this time, replaced battery with new P/N BS2166 due replacement 09/2011. Serviced oxygen to 1800 psi. Lubed all control surfaces and pulleys, verified travels. Serviced all wheel bearings. Serviced brake reservoirs with 5606 hydraulic fluid. AD's checked thru this date. Complied with AD2000-01-16 part b,c,e all okay at this time due again at hobbs 939.0 or 9/2010. Aircraft washed. Run up and operational checks good. Leak checks good.

I certify that this Aircraft has been inspected in accordance with an Annual Inspection and is determined to be in Airworthy Condition. Work order # 12603

Heartland Aviation Inc.

3800 Starr Ave.

Eau Claire WI. 54703

Signed



Certificate # 74304442

TOTALS—Carry forward to next page

4

**AUTHORIZED RELEASE CERTIFICATE**  
FAA Form 8130-3, AIRWORTHINESS APPROVAL TAG

[illegible]

5. Work Order Number:

8. Part Number;

9. **Eligibility:**

10. Quantity:

Serial/Batch Number:

[illegible]

465930-9003  
END

N/A  
END

1  
END

TAR01  
END

OVERHAULED

1.3. Remarks:

OVERHAULED I/A/W 400600-0000, AND APPLICABLE RAM AIRCRAFT STC O.H. MANUAL SUPPLEMENTS  
END

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

☐ Approved design data and are in condition for safe operation.

☐ Non-approved design data specified in Block 13.

**15. Authorized Signature:**

16. Approval/Authorization No.:

1. Name (Typed or Printed):

18. Date (m/d/y):

19. <input checked="" type="checkbox"/> 14 CFR 43.9 Return to Service	<input type="checkbox"/> Other regulation specified in Block 13
<p>Certifies that unless otherwise specified in block 13, the work identified in Block 12 and described in Block 13 was accomplished in accordance with Title 14, Code of Federal Regulations, part 43 and in respect to that work, the items are approved for return to service.</p>	
20. Authorized Signature:	21. Approval/Certificate No.:
<i>Mike Montgomery</i>	VAIR551K
22. Name (Typed or Printed): Mike Montgomery	23. Date : July 1, 2009

21. Approval/Certificate No.:

23. Date :

July 1, 2009

### User/Installer Responsibilities

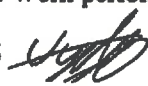
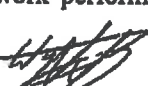

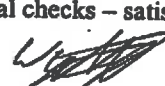
Where the user/installer performs work in accordance with the national standard, the user/installer does not automatically constitute authority to install the part/component/assembly essential that the user/installer is not aware of.

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

Form 8130-3 (6-01)  
RAM

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

NSN: 0052-00-012-9005

DATE	TOTAL	TOTAL	TACH OR
<b>Airframe Logbook</b>			
11-16-2009	ACTT: 5177.2	LETT: 1720.8	RETT: 1844.0
N31C	Hobbs: 909.3	LETSO: 744.8	RETSO: 744.8
Cessna 421C		LPTT: 744.8	RPTT: 744.8
s/n: 421C0096		LPTSO: new	RPTSO: new
Complied with AD2000-01-16 (Exhaust System, last revised 1/10/2000) part b by visual inspection - no defects noted, next due 5227.2 ACTT. All Work performed in accordance with applicable manuals.			
Wyat Hatz A&P2706256 			
<b>Airframe Logbook</b>			
01-28-2010	ACTT: 5187.8	LETT: 1731.4	RETT: 1854.6
N31C	Hobbs: 919.9	LETSO: 755.4	RETSO: 755.4
Cessna 421C		LPTT: 755.4	RPTT: 755.4
s/n: 421C0096		LPTSO: new	RPTSO: new
Removed and re-installed EDM 760-6C p/n 760000-6C s/n 1240 after rebuilt by J.P. Instruments, Inc. c/n PT0862NM w/o RMA 29052. All work performed in accordance with applicable manuals.			
Wyat Hatz A&P2706256 			
<b>Airframe Logbook</b>			
02-09-2010	ACTT: 5189.9	LETT: 1733.5	RETT: 1856.7
N31C	Hobbs: 922.0	LETSO: 757.5	RETSO: 757.5
Cessna 421C		LPTT: 757.5	RPTT: 757.5
s/n: 421C0096		LPTSO: new	RPTSO: new
Removed left engine TCM GTSIO-520-L s/n 808306 from this airframe and sent out for repair.			
Wyat Hatz A&P2706256 			
<b>Airframe Logbook</b>			
03-24-2010	ACTT: 5189.9	LETT: 1733.5	RETT: 1856.7
N31C	Hobbs: 922.0	LETSO: 757.5	RETSO: 757.5
Cessna 421C		LPTT: 757.5	RPTT: 757.5
s/n: 421C0096		LPTSO: new	RPTSO: new
Re-installed left engine TCM GTSIO-520-L s/n 808306 to this airframe after repaired by Ram Aircraft c/n CRS VA1R551K see project number 5107 for details with new engine mounts p/n J9613-54. Cleaned and re-installed tach generator, vacuum pump, hydraulic pump, propeller governor, exhaust with new hardware p/n 1001-6 and MS20500-428, propeller with new o-ring p/n MS9388-01 and nuts p/n MS21044N9, and all hoses. Removed and replaced propeller de-ice brushes with new p/n B40189. Serviced engine with CH48111-1 oil filter and 12 quarts of Aeroshell 80W mineral oil. Ground ran, leak, and operational checks - satisfactory.			
Wyat Hatz A&P2706256 			
<b>SUB-TOTALS this page</b>			
<b>TOTALS—Carry forward to next page</b>			



DATE

TOTAL  
TIME  
IN  
SERVICETOTAL  
TIME  
SINCE  
OVERHAULTACH OR  
RECORDING  
METER  
TIMEDESCRIPTION OF WORK PERFORMED—  
SIGNATURE & CERTIFICATE NO. OF PERSON PERFORMING WORK

Pilot N31C

# ALTIMETER, STATIC AND TRANSPONDER CERTIFICATE

AIRTRONICS, INC.  
FAA CRS JMSR977M

715-823-2161

P.O. BOX 297  
CLINTONVILLE, WI 54929

TEST ALT. X 1000 FT.	-1	0	.5	1	1.5	2	3	4	6	8	10	12	14	16	18
TOL. ± FT.	20	20	20	20	25	30	30	35	40	60	80	90	100	110	120
ACTUAL ± FT.	-10	-5	-10	-10	-15	-15	-20	-20	-30	-30	-25	-25	-35	-45	-50
TEST ALT. X 1000 FT.	20	22	25	30	35	40	45	50	CASE LEAK	HYSTERSIS TOL. +75 FT.	ALTIMETER				
TOL. ± FT.	130	140	155	180	205	230	255	260	TOL. -100 FT	50% MAX.	Make <u>United</u>				
ACTUAL ± FT.	-60	-50	-65	-70	+60					40% MAX.	Model <u>5934PA-1</u>				
									TEMP C	23	S/N <u>M 8865</u>				

CERTIFIED ALTIMETER PER FAR 43 APP. E. TO 35,000 FT.

CERTIFIED AIRCRAFT STATIC SYSTEMS PER FAR 91.411 (a) (1).

PERFORMED TRANSPONDER TEST REQUIRED BY FAR 91.413 (a) (c) AND 91.217 (b) IN  
ACCORDANCE WITH FAR 43 APP. F.TRANSPONDER MODEL GTX 327 SN 83705657The Aircraft and/or component identified hereon was repaired and inspected in accordance with  
the current maintenance rules of the Federal Aviation Regulations, and is airworthy and approved for  
return to serviceDate 6-15-2010 W.O. 21326Signed Kurt Harrington

BLIND ENCODER

Make Trans CalModel 550220-30A-RS232S/N SRA-7026

#2 TRANSPONDER

Make GarminModel GTX 327S/N 83711049

Copilot N31C

# ALTIMETER, STATIC AND TRANSPONDER CERTIFICATE

AIRTRONICS, INC.  
FAA CRS JMSR977M

715-823-2161

P.O. BOX 297  
CLINTONVILLE, WI 54929

TEST ALT. X 1000 FT.	-1	0	.5	1	1.5	2	3	4	6	8	10	12	14	16	18
TOL. ± FT.	20	20	20	20	25	30	30	35	40	60	80	90	100	110	120
ACTUAL ± FT.	-20	-15	-5	0	0	+5	+5	+5	0	-5	-5	-10	-20	-20	-15
TEST ALT. X 1000 FT.	20	22	25	30	35	40	45	50	CASE LEAK	HYSTERSIS TOL. +75 FT.	ALTIMETER				
TOL. ± FT.	130	140	155	180	205	230	255	260	TOL. -100 FT	50% MAX.	Make <u>United</u>				
ACTUAL ± FT.	-5	0	+15	+65	+120					40% MAX.	Model <u>5934PA-3</u>				
									TEMP C	23	S/N <u>423259</u>				

CERTIFIED ALTIMETER PER FAR 43 APP. E. TO 35,000 FT.

CERTIFIED AIRCRAFT STATIC SYSTEMS PER FAR 91.411 (a) (1).

PERFORMED TRANSPONDER TEST REQUIRED BY FAR 91.413 (a) (c) AND 91.217 (b) IN  
ACCORDANCE WITH FAR 43 APP. F.TRANSPONDER MODEL See Pilot's Sheet SN 83705657The Aircraft and/or component identified hereon was repaired and inspected in accordance with  
the current maintenance rules of the Federal Aviation Regulations, and is airworthy and approved for  
return to serviceDate 6-15-2010 W.O. 21326Signed Kurt Harrington

BLIND ENCODER

Make Trans CalModel 550220-30A-RS232S/N SRA-7026

#2 TRANSPONDER

Make See Pilot'sModel —S/N —

## Airframe Logbook

07-22-2010

ACTT: 5224.5

LETT: 1768.1

RETT: 1891.3

N31C

Hobbs: 956.6

LETSO: 792.1

RETSO: 792.1

Cessna 421C

LPTT: 792.1

RPTT: 792.1

s/n: 421C0096

LPTSO: new

RPTSO: new

Removed and replaced the left emergency cross-fed shut-off control cable with new p/n  
9910245-6 and rigged. All work done in accordance with applicable manuals.

Wyat Hatz A&amp;P2706256

SUB-TOTALS this page

TOTALS—Carry forward to next page

DATE

**Airframe Logbook**

06-03-2010

ACTT: 5208.4

LETT: 1752.0

RETT: 1875.2

N31C

Hobbs: 940.5

LETSO: 776.0

RETSO: 776.0

Cessna 421C

LPTT: 776.0

RPTT: 776.0

s/n: 421C0096

LPTSO: new

RPTSO: new

Complied with AD2000-01-16 (Exhaust System, last revised 1/10/2000) part b by visual inspection - no defects noted, next due 5258.4 ACTT. All Work performed in accordance with applicable manuals.

Wyat Hatz A&P2706256 *[Signature]*

CRK

**Airframe Logbook**

10-01-2010

ACTT: 5248.4

LETT: 1792.0

RETT: 1915.2

N31C

Hobbs: 980.5

LETSO: 816.0

RETSO: 816.0

Cessna 421C

LPTT: 816.0

RPTT: 816.0

s/n: 421C0096

LPTSO: new

RPTSO: new

Complied with an Annual inspection in accordance with applicable inspection check guides. All work performed in accordance with applicable manuals. Complied with AD2000-01-16 (Exhaust System, last revised 1/10/2000) parts b, c, & e by visual inspection and pressure test - no defects noted, part b next due 5298.4 ACTT and part c & e next due at next annual. Complied with AD95-09-13 (Fuel Inlet Float Valve, last revised 6/14/1995) by performing an installation test in accordance with MEB93-10R1, next due 5848.4 ACTT. Removed and replaced vacuum relief filters with new p/n B3-5-1. Removed and replaced the auxiliary fuel tank quick drain with new p/n50BSH9. Inspected the ELT in accordance with FAR 91.207(D) - no defects noted; battery next due Aug. 2011.

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

Wyat Hatz A&P2706256IA *[Signature]***IFICATI**

AL TAG

OMA 74115

intity: 11. Serial

95

Return to Service ☐

otherwise specified in Block 13 was  
Federal Regulations, I  
need for return to ser

Signature:

*[Signature]*

or Printed):

*[Signature]*

I have authority to install

as authority different to  
I have accepted parts/co

Inspection records must  
it may be flown.

Technical data.

**Airframe Logbook**

06-03-2010

ACTT: 5271.6

LETT: 1815.2

RETT: 1938.4

N31C

Hobbs: 1003.7

LETSO: 839.2

RETSO: 839.2

Cessna 421C

LPTT: 839.2

RPTT: 839.2

s/n: 421C0096

LPTSO: new

RPTSO: new

Removed and re-installed pitch servo p/n 0108-P4 s/n 9536DE after o/h from Autopilots Central, Inc. c/n CM2R747K w/o SH10-21791. All Work performed in accordance with applicable manuals.

Wyat Hatz A&P2706256 *[Signature]***WISCONSIN AVIATION FOUR LAKES, INC.****DESCRIPTION OF WORK DONE:****N31C**

Tensioned pitch-servo bridle cable in accordance with S-TEC specifications.

**END**

The aircraft component identified above was repaired and inspected in accordance with current Federal Aviation Regulations and was found airworthy for return to service. Pertinent details are on file at this agency under the following work number.

DATE: 3-2-11 HOBBS: 1013.2 WO#: 10267 SIGNED: *[Signature]*

3606 Corben Ct. - Madison, WI 53704 - CSR No. DBKR1241D  
(608) 268-5006 (608) 268-5038 FAX

03-08-2011  
N31C  
Cessna 421C  
s/n: 421C0096

ACTT: 5281.8  
Hobbs: 1013.9

LETT: 1825.4  
LETSO: 849.4  
LPTT: 849.4  
LPTSO: new

RETT: 1948.6  
RETSO: 849.4  
RPTT: 849.4  
RPTSO: new

Removed and replaced the right starter relay with new p/n 0850469-1. All Work performed in accordance with applicable manuals.

Wyat Hatz A&P2706256

Date: 5/17/2011; Aircraft: N31C; Type: CESSNA 421C; S/N: 421C0096; Hobbs: 1040.40  
\*\*\*Airframe Work\*\*\*

Installed new noise filter p/n LS03-01004, s/n 178 on right engine alternator.  
All work performed in accordance with approved/current technical data.

Craig Miller  
AP3530085

☒ Wisconsin Aviation - Madison  
3606 Corben Court  
Madison, WI 53704  
608-268-5003



☐ Wisconsin Aviation - Watertown  
1741 River Drive  
Watertown, WI 53094  
920-261-4567

### WISCONSIN AVIATION FOUR LAKES, INC.

#### DESCRIPTION OF WORK DONE:

Removed, inspected and reinstalled pitch servo. Tensioned bridal cable per S-Tec installation documents. System ramp checks satisfactory. Tightened Pilots and Co-pilots static sump bottles. System leak checks satisfactory in accordance with Part 43 app. E(a)(2).

N31C

END

The aircraft component identified above was repaired and inspected in accordance with current Federal Aviation Regulations and was found airworthy for return to service. Pertinent details are on file at this agency under the following work number.

DATE: 5/17/11 HOBBS: 1040.4 WO#: AV11-10416 SIGNED: *E. J. Benke*

3606 Corben Ct. - Madison, WI 53704 - CSR No. DBKR124D

#### Airframe Logbook

09-09-2011  
N31C  
Cessna 421C  
s/n: 421C0096

ACTT: 5331.5  
Hobbs: 1063.6

LETT: 1875.1  
LETSO: 899.1  
LPTT: 899.1  
LPTSO: new

RETT: 1998.3  
RETSO: 899.1  
RPTT: 899.1  
RPTSO: new

Removed and replaced the right tach generator with overhauled unit p/n 22A667 s/n 9330 from Quality Aircraft Accessories Inc, c/n QYIR334Y w/o 124087. All Work performed in accordance with applicable manuals.

Wyat Hatz A&P2706256

SUB-TOTALS this page

TOTALS—Carry forward to next page



**Airframe Logbook**

DATE

10-18-2011

N31C

Cessna 421C

s/n: 421C0096

ACTT: 5334.6

Hobbs: 1066.7

LETT: 1878.2

LETSO: 902.2

LPTT: 902.2

LPTSO: new

RETT: 2001.4

RETSO: 902.2

RPTT: 902.2

RPTSO: new

IK

Complied with an Annual inspection in accordance with applicable inspection check guides. All work performed in accordance with applicable manuals. Complied with AD2000-01-16 (Exhaust System, last revised 1/10/2000) parts b, c, d, & e by visual inspection and pressure test -- no defects noted, part b next due 5384.6 ACTT, part d next due 5834.6 ACTT, and part c & e next due at next annual. Removed and replaced vacuum relief filters with new p/n B3-5-1. Removed and replaced instrument filter with new p/n AM103535IA. Removed and replaced all hydraulic filters with new p/n AN6235-2A and AN6235-3A. Removed and replaced wet vacuum pump filters with new H9S888-26 and H9S888-36. Inspected the ELT in accordance with FAR 91.207(D) -- no defects noted; removed and replaced battery with new p/n BS2166, battery next due Oct. 2013.

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

Wyat Hatz A&amp;P2706256IA

**Airframe Logbook**

11-14-2011

N31C

Cessna 421C

s/n: 421C0096

ACTT: 5345.2

Hobbs: 1077.3

LETT: 1888.8

LETSO: 912.8

LPTT: 912.8

LPTSO: new

RETT: 2012.0

RETSO: 912.8

RPTT: 912.8

RPTSO: new

Removed and replaced aircraft battery with new Gill G-244 s/n G02539531. All Work performed in accordance with applicable manuals.

Wyat Hatz A&amp;P2706256



4535 Airport Approach Rd Duluth MN 55811  
(218) 727-2911  
Cirrus Authorized Service Center  
Cessna Authorized Service Facility

Date: 2/24/2012; Aircraft: N31C; Type: 421C; S/N: 421C0096; Hobbs: 1090; Tach.: Total Time:  
Shop Order #: 12-8119

Performed turbo cleaning procedure per RAM Aircraft instructions with Berryman B12. Pre-oiled turbos after procedure.

Signature:

Steven J. LaMourea A&amp;P 2841160

**AIRFRAME LOG ENTRY**

DATE	HOBBS	MAKE/MODEL	N-NUMBER	SERIAL #	TOTAL TIME	SMOH
March 22, 2012	1170.0	Cessna 421C	N31C	421C0096		N/A

Removed both left and right main tires with new Goodyear Flight Custom III 6.50x10 8 ply. Disassembled both wheel assemblies, cleaned, inspected and regreased both inboard and outboard wheel bearings. Reassembled wheel halves with new tire and new Goodyear 6.50-10 tube. Degreased both gear assemblies, inspected and reinstalled wheels on airframe I/A/W Cessna Aircraft Company 421 Service Manual, Chapter 4. Right tire s/n: 13132155 left tire s/n: 13132172. Check both right and left side main wheel toe-out alignment and main wheel camber alignment, found toe-out to be within limits, found camber out of limits. Adjusted main wheel camber to within limits I/A/W Cessna Aircraft Company 421 Service Manual, chapter 4-00. Trouble shot indication for JPI TIT and RAM EGT gauge. Removed and ops check, found chafed wires within the probe and wiring. Replaced probe with new p/n: 86255 and repaired wiring. Ground ran engine for ops check, all found acceptable at this time.



Corey Marschke A&amp;P 2716624

TOTALS—Carry forward to next page

**N31C A/C hobbs : 1109.4 04/4/2012**

Removed and replaced emergency exit door lower left and right sill gussets P/N 5111311-5 and 5111311-6. Work completed per Cessna 421C SRM and maintenance manual.

I certify that this airframe has been repaired and inspected on work performed only in accordance with current maintenance rules of the Federal Aviation Administration and is approved for return to service.

Heartland Aviation Inc. W.O. 13660

3800 Starr Ave

Eau Claire WI. 54703

Signed



Certificate #

JA3044472



**N31C (Aircraft Logs)**

Cessna 421C s/n 421C0096

Inspected aircraft as required by FAR91.409 (a) (1) per inspection checklist meeting requirements of FAR 43.15 (2)(c) and FAR 43 App. D. Performed post inspection operational checks per FAR43.15 (c). Inspected ELT as required by FAR 91.207(d) Replaced ELT Battery next due Aug 2013. Reinstalled and serviced Oxygen bottle (3HT) Following Hydrostatic test as Required by DOT 49 CFR 180.205 by Truboprop East DOT C945

Hydrostatic test due again in 3 years (June 2015)

Retirement due (Dec 2028)

Reinstalled and serviced Landing Gear Blow DN bottle N2 following Hydrostatic Test per DOT 49 by Safetech (QLCR829X) w.o. # 922

Hydrostatic test due again in 5 years (June 2017)

Reinstalled right McCauley Prop gave DCFS290D9F/T6 s/n 0400008 following OVH and return to service by Tiffen Aire (CRS#DTXR341D) w.o. 7195.

Installed OVH left alternator with ALV9510 s/n A133160 OVH and returned to service by Acrotech of Louisville (CRS#PU4R453M) w.o. # 104462.

Replaced Davtron battery keep alive battery #811.

Replaced left/right vacuum relief valve filters. Replaced areas of surface de-ice pressure feed line in right right engine nacelle.

Re-sealed left/right upper outboard spar butt joints per Cessna MEB95-11. Cleaned and painted interior of flap panels and at wing spar area.

Replaced pilots side aft facing seat lach arm #5119212-6.

Replaced aileron trim tab, and elevator trim attach nut with new MS17826-3 nut. Re-rigged flap cable tensions and rest safety switches to specs. Installed missing elevator trim placard.

Replaced missing battery box vent fairing #5118419-2.

Replaced emergency exit window with new LP Aero FAA/PMA unit # 1156 and CW Cessna SB MEB87-4 added Window Retainers by installation of cabin window retainers #5311260-9 on Emergency exit and cabin door.

Replaced right side strobe power supply with serviceable 60-27699-1 s/n APS17387.

Replaced fuel cap retainer on right fuel cap. Replaced left wing locker bladder with new bladder FAA/PMA Floats and Fuel Cell bladder #9941-3.

Replaced fuel cap Orings.

Replaced various loose and missing rivets in right stub wing.

Replaced heater inlet vent ducting in nose #CM2666T8-144.0 Resealed several pressure forward bulkhead pass through areas. Re-rigged nose ram air dump cable. Fabricated new SS fuel inlet line with flare fitting and SS tubing on right eng firewall.

Resealed fittings with new Orings in nose gear, and left main gear uplock actuator. Re-taped nose gear door drive rod. Replaced nose gear drag link bolts with new AN5-14 and -16 bolts. Reset nose gear down lock tension (Down and Lock Plus one turn) Replaced gear door seal as required. Replaced nose wheel with Cleveland 40-0140A wheel assy (new bearings 13889). Replaced brake linings 66-06600 and new brake shims 068-02800.

Removed nose wheel Optional Equipment Fender #5042021-1 (weight and balance change negligible at 1 lb. 51.2")

Completed landing gear operation, lubrication and emergency blow down test of gear per Cessna Maintenance Manual.

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 1168.1

CW para (c) tailpipe inspection. LEFT and Right tailpipe Off aircraft inspection. OK (Due again in 12 months June 2013)

CW para (d) visual inspection of beams, firewalls and canted bulkheads. All areas meet airworthiness requirements of AD note. (Due again in 500 hr. at Hobbs 1618.1)

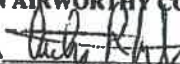
CW para (e) Pressure test exhaust system. LEFT and RIGHT engine No damage found (Due again in 12 calendar months at June 2013)


CW AD84-26-02 Effective Date - 01/29/85 Paper induction air filters CW by replacement of left/right engine filter due again in (500 hr. at hobbs 1611.1)

DATE 6/18/2012 HOBBS 1118.1 AIRCRAFT TOTAL TIME 5386.0

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

Anthony R. Saxton AP32537461A



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
				<div style="border: 1px solid black; padding: 5px;"> <p>Beacon Aviation of Michigan, Inc. 3121 Circle Drive West Lansing, MI 48906 VOOR755X            LOG ID# 5983 12-July-2012 WO# 5499 HOBBS 1139.6            N31C S/N 421C0096 CESSNA 421C</p> </div> <div style="text-align: right;">Pg 1 / 1</div> <p>Pilot's Altimeter P/N: 5934PA-1 S/N: M8865 was tested to 30,000 feet, and complies with FAR 91.411 IAW FAR 43, App. E (b). Co-Pilot's Altimeter P/N: 5934PA-1 S/N: 453259 was tested to 30,000 feet, and complies with FAR 91.411 IAW FAR 43, App. E (b). #1 Transponder GTX327 S/N: 83705657 was tested and complies with FAR 91.413 IAW FAR 43 App. F. #2 Transponder GTX327 S/N: 83711049 was tested and complies with FAR 91.413 IAW FAR 43 App. F. Altitude reporting systems were tested and comply with FAR 91.411 IAW FAR 43, App. E (c). Located and tightened a loose fitting in the tail section to repair Co-Pilot static system leak. Static systems were tested and comply with FAR 43, App. E (a). This aircraft, airframe, aircraft engine, appliance identified above was repaired in accordance with current Federal Aviation Agency Regulations and is hereby approved for return to service.</p> <div style="display: flex; justify-content: space-between; align-items: center;"> <div style="text-align: center;">             Inspector/Authorized Signature         </div> <div style="text-align: center;"> <p>7-12-2012</p>           Date         </div> </div> <p style="text-align: center;">for Beacon Aviation of Michigan, Inc. CRS # VOOR755X            3121 Circle Drive West - Capital City Airport            Lansing, Michigan 48906</p>



**N31C (Aircraft Logs)**  
**Cessna 421C s/n 421C0096**

Reinstalled right engine GTSIO-520L s/n 292324.R following repair by RAM Aircraft.  
 Repaired broken wire at solenoid on pressurization dump valve. Reset cabin door enunciator light plunger switch.  
 Replaced several bulbs and electrical pin connectors on annunciator lights.  
 Replaced landing gear hydraulic press. Switch with used serviceable unit #716-6051-01. Cycle tested gear for proper light activation.  
 Replaced right engine #4 cylinder JPI probe.  
 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 1168.1  
 CW para (c) Pressure test exhaust system. LEFT and RIGHT engine No damage found (Due again in 12 calendar months at June 2013)

DATE 9/28/2012 HOBBS 1151.3 AIRCRAFT TOTAL TIME 5419.2

Anthony R. Saxton AP32537461A 



**N31C (Aircraft Logs)**  
**Cessna 421C s/n 421C0096**

Repaired left side nose door holder and attach fitting.  
 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 1278.7


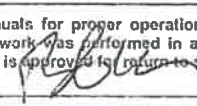
DATE 10/23/2012 HOBBS 1178.7 AIRCRAFT TOTAL TIME 5446.6

Anthony R. Saxton AP32537461A 

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																				
<div style="display: flex; justify-content: space-between; align-items: center;"> <div>  <p><b>MAYDAY AVIONICS</b> 1500 4TH ST SE, Grand Rapids International Airport, Grand Rapids, MI 49512 616 927 4320</p> </div> <div> <p>www.maydayavionics.com</p> <table border="1"> <tr> <td>DATE</td> <td>11-5-12</td> <td>S.O.</td> <td>53852</td> </tr> <tr> <td>MAKE</td> <td>Cessna</td> <td>N#</td> <td>N31C</td> </tr> <tr> <td>MODEL</td> <td>421C</td> <td>S/N</td> <td>421C0096</td> </tr> <tr> <td>HOBBS</td> <td>1180.1</td> <td></td> <td></td> </tr> </table> </div> </div> <p><b>Reset pitch servo bridle cable tension to 17 lbs per S-tec drawing # 76482.</b></p> <div style="border: 1px solid black; padding: 5px; margin-top: 10px;"> <p>All items were ground checked in accordance with their respective manuals for proper operation and to ensure no adverse reactions occurred to other onboard systems or equipment. The above work was performed in accordance with current FAA regulations and in respect to work performed on the aircraft identified above is approved for return to service.</p> <p style="text-align: right;">   <b>FOR FAA CRS YXXR387Y</b> </p> </div>					DATE	11-5-12	S.O.	53852	MAKE	Cessna	N#	N31C	MODEL	421C	S/N	421C0096	HOBBS	1180.1		
DATE	11-5-12	S.O.	53852																	
MAKE	Cessna	N#	N31C																	
MODEL	421C	S/N	421C0096																	
HOBBS	1180.1																			

**TAS AVIATION, INC.**  
Twin Cessna Specialists

**N31C (Aircraft Logs)****Cessna 421C s/n 421C0096**

Reglued portion of right inboard de-ice boot. Replaced surface deice light bulb. Reattached aft cabin divider upper attach point. Installed retainer bolt in emergency exit handle. Taped and re-installed set screw in electric trim switch. Reset cabin heater thermostat.

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 1272.6

**DATE 12/27/2012****HOBBS 1222.6****AIRCRAFT TOTAL TIME 5490.5**

Anthony R. Saxton AP32537461A



**TAS AVIATION, INC.**  
Twin Cessna Specialists

**N31C (Aircraft Logs)****Cessna 421C s/n 421C0096**

Replaced cabin heater fuel pump coupling #G735405. Cleaned left side fuel pressure gauge pressure and vent lines and primed pressure line. Cleaned right side surface de-ice feed line. Replaced left side aux nacelle fuel tank transfer pump with #6508092-4.

Replaced left side tach generator with OVH H60-050 s/n 285833 returned to service by Quality Aircraft (CRS#QYIR334Y) w.o. # WO1170006665.

Replaced cannon plug with new 97-79-513-4.

Defueled aircraft and reset fuel quantity gauge signal conditions Empty and full settings.

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 1316.5 )

**DATE 2/13/2013****HOBBS 1266.5****AIRCRAFT TOTAL TIME 5534.4**

Anthony R. Saxton AP32537461A





**Cessna 421C s/n 421C0096**

250 hour requirement. (Current heater time reads 1101.7) due again in 250 hr. at heater time 1351.7)

**Anthony R. Saxton AP32537461A**



**Cessna 421C s/n 421C0096**

**Anthony R. Saxton AP32537461A**

				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



N31C (Aircraft Logs)  
Cessna 421C s/n 421C0096

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

CW Para (b) exhaust visual inspection No damage found and proper slip joint action and spring attachment. (Due again in 50 hr.)

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

Repaired alternate static source plumbing for proper operation.

Installed serviceable right side tach generator #0850350-5 s/n 279

Re-installed in panel Garmin GNS530W #011-01064-40 s/n 78401354 following repair and return to service (Mod level 4) by Garmin CRS#G6XR582Y, w.o.# 56727885. Reset pilot settable parameters.

Replaced left tank forward quick drain valve with a FAA/PMA Saf-aire F75. Repaired hinge on pilot arm rest.

DATE 8/6/2013 HOBBS 1361.33 AIRCRAFT TOTAL TIME 5629.23

Anthony R. Saxton AP32537461A



N31C (Aircraft Logs)  
Cessna 421C s/n 421C0096

Replaced right side engine pressure air flex line from air/oil separator to deice valve. Removed valve and cleaned loose hose pieces. Replaced left landing light bulb.

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

CW Para (b) exhaust visual inspection No damage found and proper slip joint action and spring attachment. (Due again in 50 hr.)

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

DATE 9/17/2013 HOBBS 1396.3 AIRCRAFT TOTAL TIME 5664.2

Anthony R. Saxton AP32537461A



N31C (Aircraft Logs)  
Cessna 421C s/n 421C0096

Removed right engine and installed RAM OVH right engine GTSIO520-L S/N 282355 (Ram Project # 7026)

Reinstalled Bendix Radar RT #4000765-3302 s/n A441 and Bendix Radar Antenna # 4000763-3101 s/n 1252 follow repair and return to service by Muncie Aviation (CRS# AJVR135C) w.o. # A-1389.

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 1358.5

CW para (c) Pressure test exhaust system. LEFT and RIGHT engine No damage found (Due again in 12 calendar months at May 2014)

Note: Para (g) completed 9/04 at aircraft TT 4267.0 Next due at Sept/2016 or 6767.9

DATE 12/20/2013 HOBBS 1427.3 AIRCRAFT TOTAL TIME 5695.2

Anthony R. Saxton AP32537461A



N31C (Aircraft Logs)  
Cessna 421C s/n 421C0096

Replaced right side vacuum pump with OVH exchange Pesco 3P2071A s/n PE036461DC returned to service by Quality Aircraft Acc. CRS# QYIR334Y w.o.# WO1170011166.

DATE 2/14/2014 HOBBS 1473.6

Anthony R. Saxton AP32537461A



**N31C (Aircraft Logs)**  
Cessna 421C s/n 421C0096

Disassembled left brake and cleaned replaced caliper pistons #62032 with new Orings. Reassembled and bleed brakes.  
Repaired leaking hydraulic in left landing gear well by installation of new AN833-6D Elbow fitting with new Oring. Pressure tested landing gear hyd. System.

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

CW Para (b) exhaust visual inspection No damage found and proper slip joint action and spring attachment. (Due again in 50 hr.)  
CW para (c) Pressure test exhaust system. No damage found (Due again in 12 calendar months)

DATE 3/18/2014 HOBBS 1491.4 AIRCRAFT TOTAL TIME 5759.3

Anthony R. Saxton AP32537461A

**N31C (Aircraft Logs)**  
Cessna 421C s/n 421C0096

Inspected aircraft as required by FAR91.409 (a) (1) per inspection checklist meeting requirements of FAR 43.15 (c)(2) and FAR 43 App. D. Performed post inspection operational checks per FAR43.15 (c). Inspected ELT as required by FAR 91.207(d) ELT Battery next due Aug 2015.  
Reinstalled left and right engine fire bottles #30111102 (left s/n 00494A1 right s/n 00503A1) following Hydrostat and squib replacement by Ameron Global (crs# R"U2R148L) w.o. # 31C (tracking # 298641 and 218642) (due again in 5 years at July 2019)  
Reinstalled Radar antenna #4000765-3302 and RT #4000763-3101 following bench test by Muncie Aviation Inc. CRS# AJVR135C w.o. # A002060  
Replaced main vacuum filter with new filter (due again in 500 hr. at 2045.4)  
Replaced left/right landing light bulbs with Whelen Engineering FAA/PMA PAR36 LED bulb #01-0771424-20.  
Installed serviceable copilot side H.S.I. Gyro with replacement 52D137-1332 s/n 10667C. Replaced fuel cap Orings.  
Replaced pilots seat track (one side) with new A580307 track. Reset aileron trim travel to specs.  
Replaced broken deice feed line hose in right wing. Replaced vacuum relief valve filters.  
Minor patch repaired nose gear uplock hook attach support. Disassembled, cleaned and resealed right MLG strut with new piston #0841212-1 and poly pack and Orings. Reassembled and serviced. Replaced left/right MLG brake discs with new #164-06406. Replaced all brake linings with new RA066-06600. Replaced right side uplock hook with new 5141312-1 and new switch #502EN55-6B and rerigged. Replaced left/right landing gear hydraulic filters (Due again in 400 hr. at 1945.4) Completed landing gear operation, lubrication, emergency blow down test of gear per Cessna Maintenance Manual.  
CW AD 95-09-13 Effective Date 06/14/95 Fuel Float Valves (Supersedes AD93-05-03) CW per Para (a) (2) float valve test Per Cessna MEB93-10)  
Resealed various left and right side valve fittings. (Due each 600 hr. next due at 2145.4)

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 1595.4

CW para (c) tailpipe inspection. Replaced left side wastegate elbow with new knisley K9910300-3 s/n 228176 and overboard pipe with new K9910300-1 s/ 229098 LEFT tailpipe Off aircraft inspection. 1<sup>st</sup> off aircraft inspection is due in 5 years at July 2019.

Right engine replaced with New Knisley #K9910300-01 s/n 229098 and elbow K9910300-03 s/n 228182.

Right side 1<sup>st</sup> off aircraft inspection is due in 5 years at July 2019.

CW para (c) Pressure test exhaust system. LEFT and RIGHT engine No damage found (Due again in 12 calendar months at July 2016)

CW AD84-26-02 Effective Date - 01/29/85 Paper induction air filters CW by replacement of left/right side filter due again in (500 hr. at hobbs 2045.4)

DATE 7/2/2014 HOBBS 1545.4 AIRCRAFT TOTAL TIME 5813.3

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

Anthony R. Saxton AP32537461A

**N31C (Aircraft Logs)**  
Cessna 421C s/n 421C0096

Replaced left MLG tire with new McCreary 6:50 x 10 10 ply

Installed OVH right side deice control valve # 3D2320-11 s/n N2545S returned to service by Ametek B&S (CRS#NE2R028L) w.o. # R14-03828  
Post installation ops check OK.

Repaired aircraft heater by installation of OVH fuel pump #714769 s/n 02429092 returned to service by Aircraft Heating (crs#XX2R309L) w.o. # 0429092 and new heater spark plug. (Heater hobbs 1306.0)

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

CW Para (b) exhaust visual inspection No damage found and proper slip joint action and spring attachment. (Due again in 50 hr.)  
CW para (c) Pressure test exhaust system. No damage found (Due again in 12 calendar months)

DATE 12/18/2014 HOBBS 1624.9 AIRCRAFT TOTAL TIME 5892.8

Anthony R. Saxton AP32537461A

N31C (Aircraft Logs)  
Cessna 421C s/n 421C0096

Removed Stewart Warner heater assy (#9910088-1 SW8472C s/n 292)

Installed new TSO-C20, C&D Associates Inc. Heater assembly part #CD45K part # CD14078-1 s/n 2295.  
Installed C&D Associates electronic thermostat Sensor CD21253 with rotary control #CD21255.

Installed, post installation inspection, temp set, ops check heater per C&D Installation Instructions IN14978-1 Rev D.  
Weight and balance change negligible:

Placed instructions for Continued Airworthiness (ICA) in required aircraft paperwork  
NOTE: Limitations section require

1. 100 hr. /Annual ops check (MM10001 sec VII.B).
2. 250 hr./2 year Service and inspection (MM10001 sec VII. C.)
3. 1000-hr 4 year heater inspection and subsequent 250 hr. internal insp (MM10001 sec VII. D.)
4. 2000-hr/10 year Overhaul (MM10001 sec VII., VIII, IX,X)

Heater Hour meter time at installation 1309.9

DATE 1/15/2015

Acft HOBBS 1629.8

AIRCRAFT TOTAL TIME 5897.7

Heater hour meter 1309.9

Anthony R. Saxton AP32537461A

N31C (Aircraft Logs)

Cessna 421C s/n 421C0096

Serviced main landing gear struts. Replaced right side #4 CHT probe #5050T Replaced deice light bulb.

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

CW Para (b) exhaust visual inspection No damage found and proper slip joint action and spring attachment. (Due again in 50 hr. )

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

DATE 5/5/2015

HOBBS 1675.0

AIRCRAFT TOTAL TIME 5942.9

Anthony R. Saxton AP32537461A

N31C (Aircraft Logs)

Cessna 421C s/n 421C0096

Inspected aircraft as required by FAR91.409 (a) (1) per inspection checklist meeting requirements of FAR 43.15 (c)(2) and FAR 43 App. D. Performed post inspection operational checks per FAR43.15 (c). Inspected ELT as required by FAR 91.207(d) Replaced ELT Battery next due Oct 2017.

Oxygen bottle Hydrostatic tested per DOT 49 CFR, 3HT type cylinder by Turboprop East (DOT C945) W.O.# HYD-1512

O2 Hydro test due again in 3 year Aug 2018- Bottle life limit Dec. 2028.

Completed Heater 100 hr./Annual operation check per C&D MM10001 Sec. VII.B. (Current Heater Hobbs 1344.8)

Replaced left engine vacuum pump with OVH PESCO 3P207JA s/n PE18858 returned to service Accessories Inc. (CRS#TM2R192L) w.o.# 78395R.

Replaced vacuum relief valve filters.

Replaced wiring to nose taxi light.

Replaced fuel cap periphery Orings. Replaced left lower static port #CM2933-6.

Replaced Oring on left wing pressurization dump valve.

Replaced loose and working rivets in right lower wing at Landing gear door.

Replaced right MLG tires (Condor 6;50X10 10 PLY) and tube

Completed landing gear operation, lubrication, emergency blow down test of gear per Cessna Maintenance Manual.

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

Replaced left engine outboard cylinder risers assy with new Knisley assy #K9910295-4.

(Inspection due again in 50 hr. at Hobbs 1735.3

CW para (d) engine beam/canted bulkhead inspection by visual. (due each 500 hr. at 2185.3 )

CW para (c) Pressure test exhaust system. LEFT and RIGHT engine No damage found (Due again in 12 calendar months at Aug 2016)

DATE 8/17/2015

HOBBS 1685.3

AIRCRAFT TOTAL TIME 5953.2

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Anthony R. Saxton AP32537461A

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



**N31C (Aircraft Logs)**  
Cessna 421C s/n 421C0096

CW AD2016-07-24 eff. April 26, 2016 Elevator Trim Tab Attach hardware.

Para 1. Initial replacement of hardware per Cessna MEB-27-02 step 2-5.

Para 2. 100 hr./annual inspection of hardware. ( Due again at 1892.4 or May 2017)

Para 3. Replacement due to removal per Cessna MEB-27-02 step 3-5.

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

CW Para (b) exhaust visual inspection No damage found and proper slip joint action and spring attachment. (Due again in 50 hr. at 1842.4)

CW para (c) Pressure test exhaust system. No damage found (Due again in 12 calendar months May 2017)

DATE 5/11/2016 HOBBS 1792.4 AIRCRAFT TOTAL TIME 6060.3

Anthony R. Saxton AP32537461A



**N31C (Aircraft Logs)**  
Cessna 421C s/n 421C0096

Inspected aircraft as required by FAR91.409 (a) (1) per inspection checklist meeting requirements of FAR 43.15 (c)(2) and FAR 43 App. D. Performed post inspection operational checks per FAR43.15 (c). Inspected ELT as required by FAR 91.207(d) ELT Battery next due Oct 2017.

Completed Heater 100 hr./Annual operation check per C&D MM10001 Sec. VII.B. (Current Heater Hobbs 1418.3)

Replaced vacuum relief valve filters. Replaced fuel cap periphery Orings.

Replaced stall warning horn with used serviceable stall horn #9910080-2.

Replaced left wing pressurization duct #CM3211-10B38.0 and CM3211-10B9.5

Lifter right side radio stack in panel to clear elevator control.

Removed and disassembled right wing spoiler actuator and replaced Oring seals. Reinstalled and bleed system.

Replaced nose gear tire and tube with new Goodyear 6.00X6. Replaced brake pads with new RA66-66

Completed landing gear operation, lubrication, emergency blow down test of gear per Cessna Maintenance Manual.

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

Para (f) (1) Initial replacement of hardware per Cessna MEB-27-02 Rev 1 step 3-6. PCW per AS2016-07-24

CW Para (f) (2) 110 hr./OR annual inspection of hardware. (Due again 1925.9 or Sep. 2017)

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

(Inspection due again in 50 hr. at Hobbs 1865.9

CW para (c) Pressure test exhaust system. LEFT and RIGHT engine No damage found (Due again in 12 calendar months at Aug 2016)

CW para (g) Exhaust OVH (Due each 2500 hr. or 12 years.)

Left Engine :

Installed new Wall Colmonoy ((CRS#PQ0352SW wye #8294-15 s/n I2L76-0002 (Due again @TT 8617.9 or Sept. 2028)

Installed new inboard and outboard slip joint assy. (2) FAA/PMA RAM #1001-3 (Due again @TT 8617.9 or Sept. 2028)

Tailpipe installed new Knisley K9910300-1 s/n 229098 at 7/2014 @TT5813.3 (Due again @ TT 8313.3 or July 2026)

Right Engine :

Installed new Wall Colmonoy ((CRS#PQ0352SW wye #8294-15 s/n I2U58-0001 (Due again @TT 8617.9 or Sept. 2028)

Installed new inboard and outboard slip joint assy. (2) FAA/PMA RAM #1001-3 (Due again @TT 8617.9 or Sept. 2028)

Tailpipe installed new Knisley K9910300-1 s/n 229098 at 7/2014 @TT5813.3 (Due again @ TT 8313.3 or July 2026)

DATE 9/9/2016 HOBBS 1815.9 AIRCRAFT TOTAL TIME 6117.9

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

Anthony R. Saxton AP32537461A

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



**N31C (Aircraft Logs)**  
Cessna 421C s/n 421C0096

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

CW Para (b) exhaust visual inspection No damage found and proper slip joint action and spring attachment. (Due again in 50 hr. at 1912.2)

CW para (c) Pressure test exhaust system. No damage found (Due again in 12 calendar months Jan 2018)

DATE 1/09/2017 HOBBS 1862.2 AIRCRAFT TOTAL TIME 6164.2

Anthony R. Saxton AP32537461A



**N31C (Left Engine Logs)**  
TCM GTSIO 520L S/N 292090-R

Reinstalled this engine on left side of Cessna 421C s/n 421C0096.

Reinstalled following repair (for cracked case) and return to service by RAM Aircraft (CRS#VA1R551K) project #8383.

Installed with existing time continued accessories except as noted by RAM entry dated 5/11/17.

Serviced with Phillips X/C 20W50 MINERAL oil.

Performed post inspection operational and leak checks per FAR43.15 (c).

DATE 5/25/2017 HOBBS 1886.0 Engine Total time 5227.3 Engine TSMOVH 577.5

Anthony R. Saxton AP32537461A



**N31C (Aircraft Logs)**  
Cessna 421C s/n 421C0096

Replaced alternator out sensor with serviceable unit #9910094-3.

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

CW Para (b) exhaust visual inspection No damage found and proper slip joint action and spring attachment. (Due again in 50 hr. at 1961.9)

CW para (c) Pressure test exhaust system. No damage found (Due again in 12 calendar months Aug 2018)

DATE 8/23/2017 HOBBS 1911.9 AIRCRAFT TOTAL TIME 6213.9

Anthony R. Saxton AP32537461A

SUB-TOTALS this page

TOTALS—Carry forward to next page

**N31C (Aircraft Logs)**

Cessna 421C s/n 421C0096

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

CW Para (b) exhaust visual inspection No damage found and proper slip joint action and spring attachment. (Due again in 50 hr. at 2002.8)

CW para (c) Pressure test exhaust system. No damage found (Due again in 12 calendar months April 2019)

DATE 4/10/2018 HOBBS 1952.8

AIRCRAFT TOTAL TIME 6254.8

Anthony R. Saxton AP32537461A

**N31C (Aircraft Logs)**

Cessna 421C s/n 421C0096

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

CW Para (b) exhaust visual inspection No damage found and proper slip joint action and spring attachment. (Due again in 50 hr. at 2047.3)

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

Para (f) (2) 110 hr./OR annual inspection of hardware. (Due again 2107.3 or June 2019)

DATE 6/12/2018 HOBBS 1997.3

AIRCRAFT TOTAL TIME 6299.3

Anthony R. Saxton AP32537461A



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DATE	7-20-18	S.O.	60868
MAKE	Cessna	N#	N31C
MODEL	421C	S/N	421C0096
HOURS	1999.8		

Removed and reinstalled the factory repaired S-TEC Autopilot Computer, P/N 01192-0-11T, S/N 4610; Altitude Preselector, P/N 01279-PX, S/N 1200A/B; and the Pitch Servo, P/N 0108-P4, S/N 9536DE. Performed system ground operation checks – no discrepancies noted.

- o Work performed referencing the S-TEC Flight Line Maintenance Manual, P/N 87102, Rev 2.

All items were ground checked in accordance with their respective manuals for proper operation and to ensure no adverse reactions occurred to other onboard systems or equipment. The above work was performed in accordance with current FAA regulations and in respect to work performed on the aircraft identified above is approved for return to service.

  
FOR FAA CRS YXXR387Y

SUB-TOTALS this page

TOTALS—Carry forward to next page

**N31C (Aircraft Logs)****Cessna 421C s/n 421C0096**

Inspected aircraft as required by FAR91.409 (a) (1) per inspection checklist meeting requirements of FAR 43.15 (c)(2) and FAR 43 App. D. Performed post inspection operational checks per FAR43.15 (c). Inspected ELT as required by FAR 91.207(d) Replaced **ELT Battery next due Dec 2019**. Installed OVH exchange landing gear blow down bottle assembly #9910154-2 s/n 752 following return to service by Aerospace Turbine Rotables (CRS#NV2R045L) w.o. # 105184. Hydrostatic completed on this unit 3/31/2017 (**NEXT HYDROSTAT DUE MARCH 2022**) Replaced vacuum main inlet filter assembly (Replacement due each 500 Hr at Hobbs 2414.6.) Completed C&D Heater ICA requirements. (Hobbs 1469.3)

-CW 100 hr./Annual operation check per C&D MM10001 Sec. VII.B. (items a through g

-CW 200 hr. 2yr. -VII A completed fuel filter change.

Repaired static system leaks: new sump bottle S1258-1 & replaced cap on existing Tee fitting. (See IFR certifications for static leak check on 10-2-2017)

Replaced vacuum relief valve filters. Replaced fuel cap periphery Orings. Repaired left fuel cap vent nipple.

Reinstalled right landing light #40-0148-3 s/n ALL-2976 following repair by Aerospace Turbine Rotables (CRS#NV2R045L) w.o. # 113524.

Routed and installed left and right alternate air control cables (left FAA/PMA RAM right is Cessna 5615000-25)

Replaced cabin lower door support cables with new 47-625 and 56-00

Replaced left and right MLG tire and tube (Michelin Condor 6:60x10 10ply) Installed new nose gear door closing ramp #5742204-2

Completed landing gear operation, lubrication, emergency blow down test of gear per Cessna Maintenance Manual.

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

Para (f) (1) Initial replacement of hardware per Cessna MEB-27-02 Rev 1 step 3-6. PCW per AD2016-07-24

CW Para (f) (2) 110 hr./OR annual inspection of hardware. (Due again 2024.6 or Oct. 2018)

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 (Inspection due again in 50 hr. at Hobbs 11964.6)

CW para (c) Pressure test exhaust system. LEFT and RIGHT engine No damage found (Due again in 12 calendar months at Oct. 2018)

AD2017-06-03 eff. Date 5/5/2017 Meggit (Stewart Warner) heater. (supersedes AD81-09-09) NA unit not installed.

AD2017-16-01 eff. 10/24/2017 Ameri-King Corp. AK-450 & AK451 ELT. NA part not installed.

DATE 10/4/2017 HOBBS 1914.6 AIRCRAFT TOTAL TIME 6216.6

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

Anthony R. Saxton AP32537461A



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DATE	9-11-17	S.O.	60270
MAKE	Cessna	N#	N31C
MODEL	421C	S/N	421C0096
HOURS	1912.7		

Replaced Autopilot disengage switch with new, P/N 3519 and inspected wiring. Performed system ground operation checks - no discrepancies noted.

- o Work performed referencing the S-TEC Flight Line Maintenance Manual, P/N 87102, Rev 2.

All items were ground checked in accordance with their respective manuals for proper operation and to ensure no adverse reactions occurred to other onboard systems or equipment. The above work was performed in accordance with current FAA regulations and in respect to work performed on the aircraft identified above is approved for return to service.

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**SUB-TOTALS** this page

**TOTALS**—Carry forward to next page





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DATE	8-10-18	S.O.	61131
MAKE	Cessna	N#	N31C
MODEL	421C	S/N	421C0096
HOURS	2002.9		

Removed and reinstalled the inspected Bendix/King KI 525A HSI, S/N 92848.  
Performed system ground operation checks – no discrepancies noted.

- o Work performed IAW the KCS 55A Installation Manual, P/N 006-00111-0011, Rev 11.

Performed roll centering alignment for the S-TEC System 55X Autopilot referencing the S-TEC Flight Line Maintenance Manual, P/N 87102, Rev 2.

All items were ground checked in accordance with their respective manuals for proper operation and to ensure no adverse reactions occurred to other onboard systems or equipment. The above work was performed in accordance with current FAA regulations and in respect to work performed on the aircraft identified above is approved for return to service.

*Edmund G. Smith*

FOR FAA CRS YXXR387Y

*Log Closed*  
*3/28/2019*