

N521RM

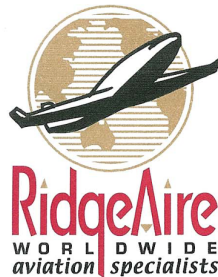
1977 Cessna 421C

Airframe Logbook

#8 of 8

2019 - 2024

MSN: 421C-0335



Prepared by the worldwide aviation specialists at RidgeAire, Inc.



AIRFRAME MAINTENANCE RECORDS

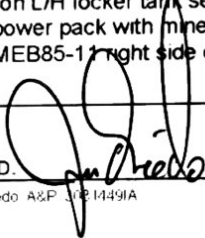
REGISTRATION NO. N521Rm
SERIAL NO. 421C0335



**AIRFRAME
MAINTENANCE RECORDS**

Log No. 1

AIRCRAFT REGISTRATION No. N521RM
MANUFACTURER CESSNA
MODEL 421C
SERIAL No. 421C0335

DATE	TOTAL TIME IN SERVICE	TACH OR RECORDING METER TIME	DESCRIPTION OF WORK PERFORMED - SIGNATURE & CERTIFICATE NO. OF PERSON PERFORMING WORK
	MAKE: Cessna MODEL: 421C S/N: 421C0335 REG. NO: N521RM WORK ORDER: 7475-12-2019	DFW Aero Mechanix Inc. 16321 Addison Rd. Ste. 150 Addison, Texas 75001 Phone: 972-250-2403	DATE: 1/29/2020 A/C TSN: 8746.3 HOBBS: 802.6
Airframe Entries			
Installed a servicable windshield center post trim. Repaired wiring to compass.			
Removed, Cleaned and installed cabin pressurization safety valve vacuum solenoid valve.			
Secured L/H & R/H engine magneto filter with adel clamps P/N's (2ea) MS21919WDG20, (2 ea) MS21919WDG23			
Retorqued all heater duct clamps in nose baggage compartment			
Complied with AD 2000-01-16 part b Exhaust visual inspection (Left & right engine), next due in 50 hours or 30 day s whichever occurs later.			
Installed new fuel probe gasket on L/H locker tank sending unit P/N 15-423			
Wiped out area around spoiler power pack with mineral spirits, monitor for further leaks.			
Complied with Service Bulletin MEB85-11 right side crack currently measuring .265, within limits at this time. Due again in 50 landings			
DATE: 1/29/2020	SIGNED: 		Work Order: 7475-12-2019 Printed by EBs 3 (datcomedia.com)

AIRFRAME LOG ENTRY

J.R AVIATION SERVICES 15790 DOOLEY RD ADDISON, TEXAS 75001

AIRCRAFT REG: N521RM DATE: 06/10/2020 MFG: Cessna MODEL: 421C
SERIAL NO.: 421C0335 HOBBS: 0826.7 A.F.T.T.: 8721.9

- Complied with Annual Inspection for Cessna 421C, S/N 421C0335 IAW 14 CFR Part 43, Appendix D.
- Complied with Airworthiness Directive research on Airframe. Current through Bi-weekly 2020-12.

I certify this aircraft, engine, propeller and/or component identified above was repaired and/or inspected in accordance with current F.A.A. regulations and was determined to be in air worthy condition and approved for Return to Service with respect to work performed.

Dated: JUNE 10, 2020 Signed  Martin J. Sisk A&P 2820585 I.A

AIRFRAME LOG ENTRY

J.R AVIATION SERVICES

15790 DOOLEY RD

ADDISON, TEXAS 75001

AIRCRAFT REG: N521RM

DATE: 06/10/2020

MFG: Cessna

MODEL: 421C

SERIAL NO.: 421C0335

HOBBS: 0826.7

A.F.T.T. ~~8721.9~~
8770.4

- Complied with 100 hrs Inspection for Cessna 421C S/N 421C-0335 IAW 14 CFR Part 43, Appendix D.
- Complied with Airworthiness Directive research on Airframe. Current through 2020-12.
- Complied with AD 2000-01-16 Exhaust IAW part b,c,e by visually inspection ,pressure test and tail pipe inspection on left and right system.
- Complied with AD 2016-17-08 Elevator Trim Push pull hardware replacement IAW Cessna MEB-27-02R1, Repetitive inspection not to exceed 100 hrs TIS or 12 months whichever occurs first.
- Complied with AD 2004-21-05 pressure decay test IAW para.E(1). No defects noted at this time next due in 24 months or 100 heater hours.
- Repaired left engine top cowling with a patch 6x8 using 2024T3 .032 aluminum. Work performed using AC 43.13-1B chapter 4 as reference.
- Complied with chapter 14 CFR part 91.207 (d) ELT P/N C589511-0117 S/N 34096 12 month check .Replace ELT battery P/N BP1020 Next battery due JUN 22
- Replaced vacuum regulator filters .P/N RAB3-5-1
- Performed vacuum manifold valve inspection no discrepancies noted at this time.
- Installed new air-condition hydraulic filter perform leak and operation check good. P/N AN6255-3A
- Weighed and inspected cabin handheld fire extinguisher Model A385 ,S/N V-732018 no discrepancies noted next inspection 05/30/2021
- Replaced left wing loose rivets as required at lower wing skins in front of gear door AN470-4- series.
- Installed new air box seals at left and right engine top cowlings P/N 5155168-7
- Installed new left engine aft beam upper cap use AC43.13-1B chapter 4 for reference. P/N 5054030-34
- Repaired left engine top cowling middle cross over channel support by installing patch using 2024T3 .032 aluminum. AC 43 13 1B chapter 4 as reference.
- Repaired left engine bottom middle bulkhead channel rib with patch 2x3 inches using 2024T3 .032 aluminum metal use AC43.13-1B as Reference.
- Fabricated new right engine metal drain line using aluminum tubing.
- Fabricate new right engine waste gate drain line using aluminum tubing.
- Repaired left nose steering cable pulley bracket with a patch 2x2 inches using 2024T3 .032 aluminum metal use AC43.13-1b as reference.
- Straightened lower cabin door handle and reset step hinge pin back and replace hardware.
- Installed new o rings at right wing fuel bowl drain P/N MS29513-10
- Installed new pressure supply ducts on left wing P/N CM3211-10B9.5, CM3211-10B36.0
- Installed new emergency door seal. P/N R581559
- Cleaned all corrosion under cabin potty floor boards and ribs and treat area and prime use AC 43.13 13-1b chapter 4 as reference.
- Installed new area washer at left outboard engine nacelle skin tail pipe hold down bracket.
- Installed new cherry max rivets on right wing locker side nacelle outboard fairing. P/N CR3213-4-2
- Lubricated both engines alternate air cables and air box sleeves as needed perform operation check good.
- Repaired pilot floor board with a patch 3x5 inches using .032 aluminum metal and install new rive nuts for scuff plates use AC 43.13-1B chapter 4 as reference.
- Replaced aft belly drains P/N CM3575-4
- Repaired right wing aft skin landing gear wheel well edge with patch 3x5 inches using 2024T3 .032 aluminum metal uses AC 43.13-1b chapter 4.
- Resealed right wing fuel tank bottom inboard rivets with AMS-S-8802 B ½ sealant performed leak check good.
- Lubed both ailerons outboard bearings and adjusted stops.

AIRFRAME LOG ENTRY

J.R AVIATION SERVICES

15790 DOOLEY RD

ADDISON, TEXAS 75001

- Resealed left wing bottom inboard small fuel tank panel with AMS-S-8802 B1/2 sealants performed leak check good.
- Resealed right main brake caliper and bleed brakes. P/N 101-23200
- Installed washers on left hand side inboard flap scissors to clear rib and remove play. P/N NAS1149F0463P
- Complied with service bulletin MEB85-11 right side crack currently measuring .265, within limits at this time. SB compliances due again in 50 landings.
- Installed new shim washers at left and right main landing gear trunnion to remove play. P/N 0841004-3
- Adjusted left and right main wheel toe in and camber by adding washers in accordance with Cessna 421C service manual instructions
- Installed new right main tire and inner tube. P/N 650C06-3, M650-010
- Lubed parking brake cable as needed performed operation check good.
- Installed new brake linings on both main wheels. P/N 066-06600
- Installed new inboard and outboard exhaust slip joints pipes. P/N 1001-3
- Installed new right hand engine exhaust wye pipe P/N 9910300-7, 2570-1, 2570-2
- Repositioned right engine exhaust tail pipes perform leak check good.
- Resized left engine exhaust risers slip joints at cyl #5 and #3 cleaned and lubricate and reinstalled exhaust risers with new gaskets. P/N 628260
- Installed serviceable right engine exhaust riser assembly with new gaskets. P/N 9910295-16, 628260
- Repaired left engine top cowling middle cross over support channel fabricate and installed patch using 2024T3 .032 aluminum metal 4x10 inches use AC 43.13 13-1b as reference.
- Replaced engine monitor with new unit G4. P/N 1200C-001 S/N 50640.

I certify this aircraft, engine, propeller and/or component identified above was repaired and/or inspected in accordance with current F.A.A. regulations and was determined to be in airworthy condition and approved for Return to Service with respect to work performed.

Dated: JUNE 10, 2020 Signed 

JUAN MORALES A&P 2840494

SUB-TOTALS THIS PAGE

TOTALS - CARRY FORWARD TO NEXT PAGE

FLITE ELECTRONICS, INC. 4786 AIRPORT PKWY ADDISON, TX 75001-3363 DG2R767K
LOG ID# 5320 09-June-2020 WO# 19553/1 REF# 19553 Document# FL13 AC TT 826.0
N521RM S/N 421c0335 CESSNA 421c

Pg 1/2

DISCREPANCY: Perform FARs.
Model: N/A Part#: N/A Serial#: N/A
ACTION: Removed pilots altimeter p/n 43300-6128 s/n 1243 (task 2), co-pilot altimeter p/n 5934PA-3 A.86 s/n 410691 (task 3), #1 encoder p/n SSD120-30A-RS232 s/n SRA8720 (task 4), #2 encoder p/n SSD120-30A s/n A57131 (task 5), #1 transponder p/n 011-00455-60 s/n 84124933 (task 6), and #2 transponder p/n 011-00259-00 s/n 83200686 (task 7) from aircraft for certification. Reinstalled equipment after certification. Performed 91.411 & 91.413 certification of aircraft. All checks normal.

DISCREPANCY: Certify altimeter.
Model: EA-801A Part#: 43300-6128 Serial#: 1243
ACTION: Certified altimeter to 35K ft in accordance with FAR 43 Appendix E sub-paragraph (b). All check normal.

DISCREPANCY: Certify altimeter.
Model: 5934 Part#: 5934PA-3 A.86 Serial#: 410691
ACTION: Certified altimeter to 35K ft in accordance with FAR 43 Appendix E sub-paragraph (b). All checks normal.

DISCREPANCY: Check encoder.
Model: SSD-120 Part#: SSD120-30A-RS232 Serial#: SRA-8720
ACTION: Checked encoder to 30K ft. No problems found. All checks normal.

DISCREPANCY: Check encoder.

FLITE ELECTRONICS, INC. 4786 AIRPORT PKWY ADDISON, TX 75001-3363 DG2R767K
LOG ID# 5320 09-June-2020 WO# 19553/1 REF# 19553 Document# FL13 AC TT 826.0
N521RM S/N 421c0335 CESSNA 421c

Pg 2/2

Model: SSD-120 Part#: SSD120-30A Serial#: A57131
ACTION: Checked encoder to 30K ft. Found altitude error increasing with altitude. Calibrated encoder. Encoder function check normal.

DISCREPANCY: Certify transponder.
Model: GTX-330ES Part#: 011-00455-60 Serial#: 84124933
ACTION: Checked transponder. No problems found. Transponder function check normal.

DISCREPANCY: Certify transponder.
Model: GTX-320 Part#: 011-00259-00 Serial#: 83200686
ACTION: Function checked transponder. No problems found. All checks normal.

DISCREPANCY: Install customer FlightStream 210.
Model: FLIGHTSTREAM 210 Part#: 011-03257-40 Serial#: 3RE007683
ACTION: Installed FlightStream 210 Bluetooth Gateway coupled to #1 GNS-430w. All equipment installed in accordance with manufacturers instructions and in accordance with AC 43.13-1B/2B. Revised weight, balance and equipment list. FlightStream 210 was installed as per 337 and STC SA01933LA-D.

The aircraft identified was repaired and/or inspected in accordance with current Federal Aviation Administration regulations and is hereby approved for return to service with respect to work performed.

D62R767K Mark 6-9-2020



7929 Karl May Dr.
Waco, Texas 76708
CRS No. AK6R541N

Cessna S/N 421C 0335 N521RM

Hour Meter: 838.4
Date: 07/13/2020

On above referenced aircraft, installed customer supplied insight fuel flow signal converters. Installed new left engine #6 probe P/N 2870 S/N 170083. (See 8130-3. Aircraft approved for return to service for maintenance performed. Pertinent details are on file under work order 5090.

[Signature]
Air Impressions, Inc.
CRS# AK6R541N

DATE	TOTAL TIME IN SERVICE	TACH OR RECORDING METER TIME	DESCRIPTION OF WORK PERFORMED - SIGNATURE & CERTIFICATE NO. OF PERSON PERFORMING WORK
			<p align="center">Mid-Stream Avionics Solutions</p> <p align="center"><i>121 Airport Ln</i></p> <p align="center"><i>Mena, Arkansas 71953</i></p> <p align="center"><i>479-216-9353</i></p> <p align="center">N: <u>N521RM</u> Make: <u>Cessna</u> Model: <u>421C</u> S/N: <u>421C0335</u> Date: <u>08/26/2020</u></p> <p>Removed Pilot and Co-Pilot AH/ FD, HSI Systems, Airspeeds, Altimeters, VSI's, Clocks, Standby CDI's (KI204, KI209), Co-Pilot Turn And Bank, Garmin FS210, Garmin GTX320, Garmin GMA200, L3 WX950 Head, 2x Trans Cal SSD120 encoders, and Garmin GNS430W Installed Customer supplied Garmin G-600 PFD/MFD system that includes GDU620, GRS77, GDC74, GMU44, GAD43e I.A.W. STC SA02153LA-D integrated to Cessna 800B IFCS Auto-Pilot with vertical and lateral coupling and displaying Flight director information. Installed Customer supplied Avdyne IFD550 I.A.W. STC SA00343BO as the number one GPS/Nav/COM system. Installed Customer Supplied L3 ESI-500 I.A.W. STC SA04046CH as an approved standby attitude, altitude, airspeed, and GPS/NAV Display Installed Guardian Avionics Ipad Mount with cooling fan and USB I.A.W. IM 100-M Rev B Approved by NORSEE letter given Sept 26,2016. See FAA Form 337 dated Aug 26, 2020 for items removed and Approval of installed items. See Weight and Balance dated 08/26/2020 also contains items removed and installed. All work was performed IAW the data referenced above. Post installation ground test have been performed to assure proper operation of all affected systems All affected system was tested accordingly to show compliance with 14 CFR 23 1309 The above was performed and inspected in accordance with Current Regulations of the Federal Aviation Administration and is approved for return to Service in regard to work performed.</p> <p align="center"><i>Nathan Cline</i> Nathan Cline AP2960786</p>

Date	Total Time In Service	Recording Meter Time
10/28/2020		847.1



Cessna S/N 421C0335 N521RM

Above referenced aircraft installed RAM FAA/PMA 1719-3 synchrophase system. See 337 and attached 8110-3 for approval. Installed new RAM FAA-PMA throttle cables P/N 1220-37 on left engine p/n 1220-38 on right engine, mixture cables P/N1220-39 on left engine p/n 1220-40 on right engine, propeller cables P/N 1220-41 on left engine. Installed prop cable p/n 9910272-48 on right engine. Negligible weight and balance change. Installed new McCauley propeller governors DCFS290D9/T6 left hand s/n 160038, right hand s/n 160041. Installed new GEM harness p/n 332460 on left and right engine. Aircraft is approved for return to service for the work performed. Pertinent details on file under Project No. 9658.

Janice D
RAM Aircraft, Limited Partnership, P.O. Box 5219, Waco Texas 76708 CRS VA1R551K

SUB-TOTALS THIS PAGE

TOTALS - CARRY FORWARD TO NEXT PAGE

DATE	TOTAL TIME IN	TACH OR RECORDING METER	DESCRIPTION OF WORK PERFORMED - SIGNATURE & CERTIFICATE NO. OF PERSON PERFORMING WORK
------	---------------	-------------------------	---

Date	Total Time In Service	Tach or Recording Meter Time
1/12/2021		857.0



RAM Aircraft, Limited Partnership • Waco Regional Airport

Cessna S/N 421C0335 N521RM

On above referenced aircraft replaced manifold pressure gauge instrument light p/n LW3028. Troubleshoot and repaired prop sync system. Aircraft is approved for return to service for the work performed. Pertinent details on file under Project No. 9755.

RAM Aircraft, Limited Partnership, P.O. Box 5219, Waco Texas 76708 CRS VA1R551K

wo: AS20-0277

Airframe - page 1 of 1



Force Aviation - 5555 Apollo Drive - Dallas, Texas 75237 - 2143377000

N521RM
Hobbs: 857.4

CESSNA, 421C, S/N: 421C0335

January 14, 2021

- Pilot's PTT INOP** – Removed and replaced PTT switch (P/N S1985-1) in accordance with AC 43.13-1B/2B chapter 13. Operational check satisfactory. -Brandon Baccus Installed (1) S1985-1 - Switch.
- Re-seal #1 antenna for troubleshooting purposes (Static in both radios made worse by moisture)** – Could not confirm customer squawk of static in both radios in flight. Changed audio panel to attempt to improve audio. No improvement noted. Reinstalled original audio panel and resealed #1 antenna per customer request. Work done in accordance with PMA 8000 manual document P/N 200-890-0100, Rev 13, 12/2019. -Brandon Baccus 1/14/21.
- Replace faulty static wicks** – Removed and replaced 2 faulty static wicks (P/N 16165). Per Cessna 421C AMM D2515-13: Revision - 23, Revision Date - Jan 6, 2003. -Brandon Baccus 1/14/21.

With respect to the work performed, this airframe is approved for return to service. Details of work performed are on file with Force Aviation under work order: AS20-0277.

Martin Orcik A&P/IA 3677683

SUB-TOTALS THIS PAGE

TOTALS - CARRY FORWARD TO NEXT PAGE

DATE	TOTAL TIME IN	TACH OR RECORDING METER	DESCRIPTION OF WORK PERFORMED - SIGNATURE & CERTIFICATE NO. OF PERSON PERFORMING WORK
------	---------------	-------------------------	---



AIR IMPRESSIONS, INC.
 PROFESSIONAL AIRCRAFT SERVICE
 7929 Karl May Dr.
 Waco, Texas 76708
 CRS No. AK6R541N

Hour Meter: 860.7
 Date: 03/24/2021

Cessna S/N 421C 0335 N521RM

On above referenced aircraft, installed new bulb for nose downlock light and reset socket. Installed new left engine #4 EGT probe P/N 2870. Rigged all engine controls and performed set up adjustments. Aircraft approved for return to service for maintenance performed. Pertinent details are on file under work order 5219.

[Signature]
 Air Impressions, Inc.
 CRS# AK6R541N

DATE	TOTAL TIME IN	TACH OR RECORDING METER	DESCRIPTION OF WORK PERFORMED - SIGNATURE & CERTIFICATE NO. OF PERSON PERFORMING WORK
------	---------------	-------------------------	---



7929 Karl May Dr.
 Waco, Texas 76708
 CRS No. AK6R541N

Hour Meter: 866.1
 Date: 04/01/2021
 Aircraft TT 8,809

Cessna S/N 421C 0335 N521RM

On above referenced aircraft, removed both prop governors and RAM prop sync computer and sent to RAM warranty for testing. Installed 2 ea) new governors, P/N D20741-2, S/Ns 160042 and 160043 (see 8130-3 forms). Reinstalled prop sync box after no defects found by RAM. Installed new left engine #3 EGT probe, P/N 2870. Aircraft approved for return to service for maintenance performed. Pertinent details are on file under work order 5227.

[Signature]
 Air Impressions, Inc.
 CRS# AK6R541N

SUB-TOTALS THIS PAGE

TOTALS - CARRY FORWARD TO NEXT PAGE

Abilene Aero Inc.
Registration N521RM
Aircraft S/N: 421C0335

2850 Airport Blvd. Abilene TX 79602

Date: 7/12/2021

W.O. # 22166

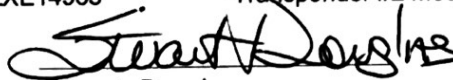
Hobbs Time : 897.3

Installed NGT9000R (D) HW P/N 9029000-40000 S/N LXE14963 as #1 Transponder, GPS Splitter P/N LDCB1X2-T S/N 137682, PIM-9000 P/N 9230-17005-01 S/N 20612, Transponder 1/2 switch and associated mounts, hardware and wiring IAW L3 Install Manual P/N 0040-17001-01 Rev. W, STC# SA02444AK. Ground checked IAW M/M Repaired Ident switch as needed, op checked IAW M/M.

The Dual Pitot / Static, Altimeter, Transponder and Automatic Pressure Altitude Reporting Systems were tested and found to comply IAW PART 43 Appendix E and F, as required by FAR 91.411, FAR 91.413, and Part 91.227 (ADS-B Out). Systems were tested to 30,000 feet.

Pilots Altimeter S/N:1CM032635
Transponder #1 Model NGT9000R S/N: LXE14963
Encoder Model GDC S/N: 20619524

Copilots Altimeter S/N: 1925
Transponder #2 Model GTX-330ES S/N: 84124933


Stuart Douglas

Approved for Return to Service
For Abilene Aero Inc. GSTR469E


Aerospace Instrument Support, Inc. 1750 Westcourt Road Denton, Texas 76207 XI7R807J
LOG ID# 1341 20-August-2021 WO# 18462
N521RM S/N 421C0335 Cessna 421C

Pg 1 / 1

**** ITEM # 18462-2 LH main tire leak ****

DISCREPANCY: LH Main Tire Leak

ACTION: Removed wheel Assembly. Disassembled and Removed Inner Tube. Replaced Inner tube PN: 302-039-402. Reassembled and Repacked Bearings with Grease. Reinstalled wheel Assembly. IAW: Cessna 421 Service Manual Section 4

Signed  A&P 3936528 IA Kevin Roberts

20 Aug 21
Date

Aerospace Instrument Support, Inc. 1750 Westcourt Road Denton, Texas 76207 XI7R807J
LOG ID# 1437 07-February-2022 WO# 18927
N521RM S/N 421C0335 Cessna 421C

Pg 1 / 2

**** ITEM # 18927-1 Coms Intermittent INOP Xmit & RCV ****

DISCREPANCY: Coms Intermittent to INOP Xmit & RCV

ACTION: Tested and verified. Testing for frequency drift. Found Frequency was off .08 khz on both coms. Bench checked both coms, both coms reading well within tolerance. Removed and replaced bad bnc to both coms. #1 Com reading good. #2 Com still off in A/C. See Item 2 & 6 for repair.

**** ITEM # 18927-2 Remove Old unused wiring Behind Panel ****

DISCREPANCY: Remove Old Unused Wiring Behind Panel

ACTION: After removing center panel to check for loose connections, found old unused wiring behind panel that was not tied up or capped and stowed. Removed Avionics equipment, center panel to gain access to wiring. Removed excess old wiring. Found BNC on NAV, GPS, COM coaxes that were not properly crimped and making poor connections. Removed and replaced 10 BNC Male and Female connectors for NAV, G/S, Com and GPS to #1 IFD-540 and #2 IFD-440. Removed and replaced BNC to GTX-330ES. Found several ground wires missing and shield grounds not connected. Found 20 AWG pinned into high density pins on several pins, reworked with 22 AWG jumper wires to correct IAW associated Install Manuals. Found several wires that had poor routing, reworked wiring and rerouted as needed to associated radios. Retied up wiring behind panel and reinstalled avionics racks, center panel and removed avionics. Systems have been tested IAW Associated Install Manuals and found to operate IAW Associated Install Manuals. ATC #2 Transponder has been tested and found to comply IAW Part 43 Appendix F as required by FAR 91.413.

**** ITEM # 18927-4 Install Cust USB Power Ports ****

DISCREPANCY: Install Customer USB Power Ports

ACTION: Installed and wired Customer provided Stratus power ports P/N: 153510-000169, S/Ns: 001225, 001290, 001292 and all associated mounts, hardware and wiring. Installed 2 aft passenger USB in right sidewall and left sidewall. Installed 1 in lower right of center panel. Installation and

SUB-TOTALS THIS PAGE

TOTALS - CARRY FORWARD TO NEXT PAGE

Aerospace Instrument Support, Inc. 1750 Westcourt Road Denton, Texas 76207 XI7R807J
LOG ID# 1437 07-February-2022 WO# 18927
N521RM S/N 421C0335 Cessna 421C

Pg 2 / 2

HOBBS: 1038.2

testing done IAW Stratus Power Pro Install Instructions Doc. No.: 600840-000063.
**** ITEM # 18927-5 Pass left sidewall vent repair ****
DISCREPANCY: Pass Left Sidewall Vent Repair
ACTION: While installing Power Ports in left sidewall, found vent no attached to sidewall. Made a doubler bracket to attach to sidewall where the vent is attached, IRT AC43.13-1B Sect. 6-134. Attached doubler, and re-installed vent.
**** ITEM # 18927-6 Install Com Antenna ****
DISCREPANCY: Install Com Antenna
ACTION: After troubleshooting #2 Com, found IFD-440 was not putting out any power and frequency was being pulled. Traced #2 coax to aft section, unable to locate #2 Com antenna. Install Com Antenna P/N CI-121, S/N 511074. Installed IAW CI-121 Install Drawing and AC-43.13-1B Chapter 3 for antenna installation, bonding and sealing. Verified coax is good from aft to front. Installed new bnc and coax to CI-121. Reinstalled coax to #2 Com. System op checked good IAW IFD-440 Install Manual.

Bobby Faulks 2/7/22
Signed XI7R807J Bobby Faulks Date

Aerospace Instrument Support, Inc. 1750 Westcourt Road Denton, Texas 76207 XI7R807J
LOG ID# 1515 22-July-2022 WO# 19266 HOBBS 1091.7
N521RM S/N 421C0335 Cessna 421C

Pg 1 / 5

**** ITEM # 19266-1 annual inspection ****
ACTION: Completed Annual Inspection Aircraft has been inspected and Found in an Airworthy Condition. Discrepancies have been noted and worked in this work order. Completed Scheduled Servicing. Completed Functional Checks of Landing Gear, De-Ice Boots, and Fuel Systems. IAW: Current Cessna 421C Service Manual Section 2 and 14 CFR 43 Appendix D

**** ITEM # 19266-2 RH main gear light bulb burnt out ****
ACTION: Removed main gear annunciator and installed new main gear annunciator. Performed Ops check, ops check SAT. work performed IAW current Cessna 421 service manual 4-70-01

**** ITEM # 19266-3 RH tachometer inop ****
ACTION: Removed RH Tach Generator PN: H60-050 SN: 291543, installed overhauled tach generator PN: H60-050, SN: AE50304 IAW current Cessna Model 421C Series AMM Chapter 7.

**** ITEM # 19266-4 standby altitude battery cal due ****
ACTION: Started Standby ATT Battery Cal ESI-500. Battery at 88%, needs to be @ 98% before test can begin. Battery would only charge to 92%, battery calibration failed. Battery needs to be replaced.

**** ITEM # 19266-7 RH #1 EGT inop ****
ACTION: Removed and replaced RH engine #1 EGT probe P/N: 2870. work performed is IAW current Insight Graphic Engine Monitor manual Pg: 96

**** ITEM # 19266-9 prop de-ice ammeter is too high ****
ACTION: Carbon Brushes found to have broken wires and worn beyond limits, see line Slip Ring Brushes

Aerospace Instrument Support, Inc. 1750 Westcourt Road Denton, Texas 76207 XI7R807J
LOG ID# 1515 22-July-2022 WO# 19266 HOBBS 1091.7
N521RM S/N 421C0335 Cessna 421C

Pg 2 / 5

Line Item

**** ITEM # 19266-10 Nose tire worn ****
ACTION: Removed old tire p/n: 606c66-8. Replaced with new tire p/n: 072-314-0 s/n: 1325T00008. work performed IAW current Cessna 421 maintenance manual 4-41&4-42

**** ITEM # 19266-11 annunciator test shorted wire ****
ACTION: Repaired Shorted wire

**** ITEM # 19266-14 RH EGT/CHT wiring Harness Burnt ****
ACTION: Replaced engine monitor wiring harness IAW current G4 Insight engine monitor installation manual.

**** ITEM # 19266-15 RH Alternator Capacitor Broken ****
ACTION: Found CR7 wire broken during inspection. Repair wiring to to CR7 Diode / Resistor assembly. Tied CR7 up into wiring bundle. Op checked IAW Current Cessna 421 Service Manual.

**** ITEM # 19266-16 ELT Battery Expires June 22 - Replace ****
ACTION: Removed ELT, removed internal battery P/N: BP-1020 S/N: 34096. Replaced with new battery P/N: BP-1020 S/N: 34096. Expiration AUG 24. Performed Ops check, Ops check good. Reinstalled ELT. Complied with current 14 CFR 91.207(d)

**** ITEM # 19266-17 Fuel Leak Under RH Wing ****
ACTION: Defueled Aircraft. Removed Sealant, Removed Incorrect Rivets and Replaced with Correct

Rivets. Resealed and Fueled Aircraft. Leak Check Good. IAW: Current Cessna 421C Service Manual

**** ITEM # 19266-18 Replace Nose Avionics Cam Locks ****
ACTION: Installed new camlocs PN: 2700-3S and 2700-5S with new camloc retainer rings PN: 2600-LW IAW current Cessna 421C Series MM.

**** ITEM # 19266-19 76-13-07 fork bolts required ****
ACTION: N/a by Model and Serial Number.

**** ITEM # 19266-20 2018-03-03 fuselage required ****
ACTION: Complied with AD: 2018-03-03 by Inspection of Carry Through Spar. IAW: Current SID 57-10-14

**** ITEM # 19266-21 2016-17-08 elevator tab control system ****
ACTION: Complied with AD: 2016-17-08 by Inspection of Elevator Tab Control Push Rod and Hardware. IAW: Current MEB27-02 Next Due In 100 Hours

**** ITEM # 19266-22 2000-01-16 exhaust system ****
ACTION: Complied with AD 2000-01-16 by Visual Inspection of Exhaust System. Next Due in 100 Hours

**** ITEM # 19266-23 95-09-13 fuel inlet float valve ****
ACTION: Complied with AD: 95-09-13 by Operational Check of Fuel Float Valves. IAW: Current MEB93-10 Next Due in 200 Hours

**** ITEM # 19266-24 RH tire worn to bottom of groove ****

DISCREPANCY: RH tire worn to bottom of groove, inboard only
ACTION: Removed both LH and RH wheel outboard bearing Timken PN: 07100-20629. Greased and installed new (x2) each Timken bearing PN: 07100-20629. IAW current Cessna 421 maintenance manual 4-41. Adjusted RH main landing gear toe-out IAW current Cessna Model 421C AMM Chapter 4.

**** ITEM # 19266-25 LH and RH main wheel linings worn ****
ACTION: Installed new brake linings (x16) each PN: RA066-06600 on both LH & RH brake calipers IAW current Cessna Model 421C AMM Chapter 4.

**** ITEM # 19266-29 SR carbon brushes broken wires ****
DISCREPANCY: slip ring carbon brushes have broken wires on both LH and RH engines
ACTION: Installed all new carbon brush assy (x4) each PN: RAB40012 on both LH and RH engines IAW current Cessna Model 421C AMM Chapter 8-20.

**** ITEM # 19266-30 landing gear down lock indicator ****
ACTION: Removed old down lock indicator and installed new indicator P/N: 9910115-3. Performed ops check, ops check SAT. Work performed is IAW current Cessna 421 service manual 4-70-01

**** ITEM # 19266-31 Fire extinguisher cartridges due ****
ACTION: Replaced squibs on both LH and RH engines, RH squib installed P/N: AE13083-5, S/N: 8761 (RWJ). LH squib installed P/N: AE13083-5, S/N: 8762. Exp date 3/1/2032. Work Performed is IAW current Cessna 421 maintenance manual 7-90-04

**** ITEM # 19266-32 #2 & #6 EGT on RH #5 & #6 on LH EGTS ****

ACTION: Removed and replaced EGT probes #'s 2 & 6 on the right-hand engine, with P/N:2870. Removed and replaced EGT probes #'s 5 & 6 on the left hand engine with P/N: 2870. Work performed is IAW current Insight Graphic Engine Monitor manual Pg: 96

Signed  A&P 3936528 IA Kevin Roberts

7/22/2022
Date

SUB-TOTALS THIS PAGE

TOTALS - CARRY FORWARD TO NEXT PAGE

wo: WO_20

Airframe - page 1 of 1

HOBBS:

1129.5

GENERATION JETS · 205 West Louisiana Street suite 201 · McKinney, TX 75070 · 8175643267

N521RM

CESSNA, 421C, S/N: 421C0335

October 07, 2022

Battery replaced IAW Cessna 421 service manual Chapter 13-21, engine run completed post installation ops check without discrepancy. PN RG24-20 Installed P/N RG24-20 - Battery, Sealed.

With respect to the work performed, this airframe is approved for return to service. Details of work performed are on file with GENERATION JETS under work order: WO_20.

Bryan Waldo A&P 3730638

DATE

wo: WO_23-07

Airframe - page 1 of 1

HOBBS: 1147.9

GENERATION JETS · 5318 Airport Drive · Denison, Texas 75020 · 8444436538

N521RM

CESSNA, 421C, S/N: 421C0335

January 26, 2023

Repacked and resealed RT MLG strut IAW Cessna 421C service manual. Complete full servicing of LT and RT MLG struts. All leak checks good at this time. Installed (2) P/N A2749 - Seal Wiper, Installed (2) P/N MS28776M2-22 - SCRAPER, Installed (2) P/N MS28775-222 - PACKING, Installed (2) P/N MS2875-010 - PREFROMED PACKING SEAL O-RING, Installed (4) P/N MS28775-229 - PREFROMED PACKING SEAL O-RING, Installed (4) P/N MS2875-228 - PREFROMED PACKING SEAL O-RING.

With respect to the work performed, this airframe is approved for return to service. Details of work performed are on file with GENERATION JETS under work order: WO_23-07.

Bryan Waldo A&P 3730638

wo: WO_23-11

Airframe - page 1 of 1

HOBBS: 1154.9

GENERATION JETS · 5318 Airport Drive · Denison, Texas 75020 · 8444436538

N521RM

CESSNA, 421C, S/N: 421C0335

February 27, 2023

1. Troubleshoot brake system. Found LH brake reservoir low on fluid. Serviced reservoir with W/5606 Hyd fluid. leak check and op check good.
2. Strut inspection completed, found right strut retaining ring partially unseated. Strut deflated, retaining ring resealed, Strut serviced IAW Cessna service manual chapter 4-10, leak and ops check good.
3. Troubleshooting completed, found broken fuse holder, seating and panels removed to FOM. Replaced broken fuse holder with spare fuse holder. Ops check good. Panels and seating reinstalled.

With respect to the work performed, this airframe is approved for return to service. Details of work performed are on file with GENERATION JETS under work order: WO_23-11.

Bryan Waldo A&P 3730638

wo: WO_23-06

Airframe - page 1 of 1

HOBBS: 1147.5

GENERATION JETS · 5318 Airport Drive · Denison, Texas 75020 · 8444436538

N521RM

CESSNA, 421C, S/N: 421C0335

January 17, 2023

1. Compression check completed on #5 cylinder (72). Found spark plug to be bad, checked all plugs and found to be bad. Replaced all 24 spark plugs IAW Cessna 421 C service manual. Ops check good Installed (24) P/N RHB32E - SPARK PLUG.
2. Found broken wire and repaired as REQ, removed and replaced CHT probe, further troubleshooting required. Installed P/N AA86146 - CHT Bayonet RTD.
3. Found ground wire on master avionics switch to be loose. Ground wire tightened and ops check good.
4. Nose gear serviced with nitrogen IAW Cessna 421C service manual.

With respect to the work performed, this airframe is approved for return to service. Details of work performed are on file with GENERATION JETS under work order: WO_23-06.

Bryan Waldo A&P 3730638

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



7929 Karl May Dr.
Waco, Texas 76708
CRS No. AK6R541N

Aircraft HM: 1165.0
Aircraft TT: 9108.7
Date: 10/02/2023
Heater HM: 9.7

Cessna S/N 421C-0335 N521RM

On above referenced aircraft, removed all inspection plates and panels for Annual Inspection. Checked all pulleys, bellcranks, cables and fairleads. Checked all flight controls for security and movement. Inspected all wing, tail and landing gear attach points. Inspected all aircraft lighting and electrical. Ran gear retraction test per Cessna Service Manual. Inspected wheels, tires and brakes. Inspected fuel, hydraulic lines and fittings. C/W A.D. 2000-01-16 per paragraphs (b), (c), (d), and (e) inspections. (Paragraph (b) next due at 1215.0 HM.) Replaced overboard exhaust and bellows for left engine. Replaced relief tube hose. Replaced inner wire for both cabin warm pressure cables and rigged. Corrected pilot's map light wiring. Corrected wiring for taxi light. Replaced nose RAM air duct and treated area in nose. C/W MEB 00-4 per proper installation of lower rudder mount bracket and set rudder trim travels per service manual. Installed new brake discs and pad lining and corrected wheel alignment and camber per service manual. Rotated main tires on wheel. Installed new battery drain tube fairing. Resealed left brake caliper and bled and serviced system. Replaced rivets at lower left-wing skin to fuselage as needed. Installed new nose gear drag link bearings and hardware. C/W MEB85-11(R4) and found right Trunnion mount in limits. (Re-inspect each 50 landings.) Repaired right main gear door at bracket area. Troubleshot surface deice boot operation and repaired bad supply hose on left engine. Oxygen and nitrogen bottles were hydrostatic tested and reinstalled. (Next due at 10/2028.) Performed test of ELT unit per FAR 91.207(d) requirements. (Battery next due 8/2024.) Installed new main aircraft hydraulic system filters. C/W A.D. 2004-25-16(R1) per MEB01-5. (Next due at 1265.0 HM.) C/W A.D. per inspection and test of heater assembly. (Next due at 109.7 Heater HM or 10/2025.) C/W A.D. 2016-17-24 per new elevator trim hardware installed. (Next due at 1275.0 HM.) Installed new battery box seal. Cleaned and treated wing spar fittings as feasible. Cleaned and treated in lower vertical access area. Installed new co-pilots defrost and heat ducts in nose. Cleaned and treated in AFT wheel well access panel areas. Installed new 9-in pressure duct in inboard right wing. Repaired wiring for flap warning horn. Resealed left brake master cylinder. All A.D.'s researched through bi-weekly 2023-18. (See A.D. listing for all current and future compliance times.) All above work done in accordance with Cessna Service Manual and Air Impressions, Inc. 100 Hour Annual Inspection Checklist. Aircraft approved for return to service. Pertinent details are on file under work order #5804

[Signature]
Air Impressions, Inc.
CRS# AK6R541N



7929 Karl May Dr.
Waco, Texas 76708
CRS No. AK6R541N

I certify this Aircraft _____ has been inspected in accordance with a Annual Inspection and has been determined to be in an airworthy condition.
DATE 10/02/2023 HM 1165.0
AIRCRAFT TT 9108.7
WORK ORDER #5804
SIGNED *[Signature]*
AIR IMPRESSIONS, INC
REPAIR STATION # AK6R541N

