

N2702L

1981 Cessna 414A

Airframe Logbook

#2 of 2

2012 - 2025

MSN: 414A-0608



Prepared by the worldwide aviation specialists at RidgeAire, Inc.



**AIRFRAME
MAINTENANCE
RECORDS**

Registration No. N-2702L

Serial No. 414A-0608



AIRFRAME MAINTENANCE RECORDS

Log No. _____


Aircraft Registration No. N2702L

Model 414A (RAM IV)

Serial No. 414A-0608

TOTALS—Carry forward to next page

Signed _____
Central Flying Service, Inc
1501 Bond Street, Little Rock, AR 72202


Larry W. Bellairs
Phone: (501) 375-3245, (800) 888-5387

CRS No. HBKR587E
FAX (501) 975-9596

Wings Avionics, Inc. 421 Ernest Lancaster Dr. Fayetteville, AR 72701 W1NR1050
LOG ID# 3180 15-October-2012 WO# 5563 REF# 5563 HOBBS 4588.4
N2702L S/N 414A0608 CESSNA 414A

**** ITEM # 5563-1 REMOVE EQUIPMENT FOR AVIONICS EQUIPMENT ****

DISCREPANCY: REMOVE EQUIPMENT FOR AVIONICS UPGRADE.

Model: SEE C/A Part#: SEE C/A Serial#: N/A

ACTION: REMOVED A BENDIX ART161A RADAR RECEIVER/TRANSMITTER (R/T) UNIT, A BENDIX IN152A RADAR INDICATOR (IND), AN AIRCRAFT RADIO CORPORATION (ARC) 1000 SERIES REMOTE COMMUNICATION (COMM) TRANSCIVER (XCVR), AN ARC C-1038A PANEL MOUNTED COMM CONTROL UNIT, AN ARC 1000 SERIES REMOTE MOUNTED NAVIGATION (NAV) RECEIVER (REC), AN ARC C-1048A PANEL MOUNTED NAV CONTROL UNIT, AN ARC R-1043A REMOTE MOUNTED GLIDE SLOPE (G/S) REC, AN ARC RN878A PANEL MOUNTED AREA NAVIGATION (RNAV) COMPUTER, AN ARC 800 SERIES DISTANCE MEASURING EQUIPMENT (DME) R/T UNIT, AN ARC C876A DME IND, AN ARC C1046A AUTOMATIC DIRECTION FINDER (ADF) CONTROL UNIT, AND A KING KT96 FLIGHT PHONE. UPDATED WEIGHT AND BALANCE RECORDS AND REVISED EQUIPMENT LIST FOR REMOVED EQUIPMENT. FOR MORE INFORMATION SEE FAA FORM 337 DATED 10-12-2012.

**** ITEM # 5563-2 RELOCATE EXISTING GARMIN GNS430 ****

DISCREPANCY: RELOCATE THE EXISTING GNS430 TO THE SECONDARY POSITION IN THE PRIMARY RADIO STACK, AND INTERFACE TO THE EXISTING SECONDARY NAV INDICATOR. REMOVE THE EXISTING RG59 GPS COAXIAL CABLE ASSEMBLY PRESENTLY INTERFACED TO THE GNS430 GPS INPUT, AND REPLACE WITH A RG400 COAXIAL CABLE ASSEMBLY. INSTALL A NAV ANTENNA DIPLEXER AND INTERFACE TO THE GNS430 TO PROVIDE VOR, LOC, AND GLIDE SLOPE RECEIVER INPUTS.

Model: GNS430 Part#: 011-00280-10 Serial#: 97103643

ACTION: RELOCATED THE EXISTING GARMIN GNS430 GLOBAL NAVIGATION SYSTEM, PART NUMBER (P/N) 011-00280-10, SERIAL NUMBER (S/N) 97103643, TO THE SECONDARY NAV/COMM POSITION IN THE PRIMARY RADIO STACK VACATED BY THE PREVIOUSLY REMOVED ARC 1000 SERIES NAV/COMM PANEL MOUNTED CONTROL UNITS. INSTALLATION COMPLETED IN ACCORDANCE WITH THE GARMIN 400 SERIES INSTALLATION MANUAL, P/N

Wings Avionics, Inc. 421 Ernest Lancaster Dr. Fayetteville, AR 72701 W1NR1050
LOG ID# 3180 15-October-2012 WO# 5563 REF# 5563 HOBBS 4588.4
N2702L S/N 414A0608 CESSNA 414A

190-00140-02, REVISION (REV) T, DATED JUNE 17, 2010; AC 43.13-28, PARAGRAPHS 201, 202, AND 203; AC 43.13-18 CHANGE 1, PARAGRAPHS 11-30, 11-31, 11-32, 11-47, 11-48, 11-66, 11-76, 11-77, 11-89, AND 11-96; AND MEETS THE REQUIREMENTS OF AC 20-138. THE GNS430 IS MANUFACTURED UNDER TSO C129, CLASS A1, AND WAS ORIGINALLY APPROVED FOR INSTALLATION UNDER STC NUMBER SA00705WI, DATED OCTOBER 2, 1998, WITH AN AMENDED DATE OF JULY 25, 2002. THE GNS430 WAS INTERFACED TO THE EXISTING COMM ANTENNA (ANT) SYSTEM, THE EXISTING GA56 GLOBAL POSITIONING SYSTEM (GPS) ANT WITH A REPLACEMENT COAXIAL CABLE ASSEMBLY, THE EXISTING ARC IN1049A NAV IND FOR COURSE DEVIATION INDICATOR (CDI) DISPLAY, THE SECONDARY NAV INPUTS OF THE EXISTING ARC 800B INTEGRATED FLIGHT CONTROL SYSTEM, AND THE SECONDARY NAV/COMM AUDIO INPUTS OF THE EXISTING ARC 1000 SERIES AUDIO PANEL.

THE COMANT CI505 NAV ANT DIPLEXER, NO S/N, WAS INSTALLED BEHIND THE COPILOT INSTRUMENT PANEL, AND INTERFACED TO THE EXISTING NAV ANT SYSTEM TO PROVIDE NAV AND GLIDE SLOPE RECEIVER SIGNAL INPUTS TO THE RELOCATED GNS430. INSTALLATION COMPLETED IN ACCORDANCE WITH AC 43.13-28, CHAPTER 3; AND RAMP TESTED PER AC 43.13-18 CHANGE 1, PARAGRAPHS 12-11 AND 12-14.

A GARMIN GNS430 PILOT'S GUIDE, P/N 190-00140-00, REV J; A GNS430 QUICK REFERENCE GUIDE, P/N 190-00140-01, REV C; A 400/500 SERIES DISPLAY INTERFACES PILOT'S GUIDE ADDENDUM, P/N 190-00140-10, REV D; AND A 400/500 SERIES OPTIONAL DISPLAYS PILOT'S GUIDE ADDENDUM, P/N 190-00140-13, REV D; WERE PLACED IN THE AIRCRAFT RECORDS. A FAA APPROVED FLIGHT MANUAL SUPPLEMENT (FMS) DATED 10-12-2012 WAS PLACED IN THE AIRCRAFT RECORDS.

UPON COMPLETION OF A FLIGHT TEST EVALUATION IN ACCORDANCE WITH ADVISORY CIRCULAR AC20-138, PARAGRAPH 8c(2), AND AN AIRCRAFT LOGBOOK ENTRY MADE BY AN APPROPRIATELY RATED PILOT, THE PLACARD STATING "GNS430 LIMITED TO VFR USE ONLY" MAY BE REMOVED FROM THE PILOT INSTRUMENT PANEL.

Wings Avionics, Inc. 421 Ernest Lancaster Dr. Fayetteville, AR 72701 W1NR1050
LOG ID# 3180 15-October-2012 WO# 5563 REF# 5563 HOBBS 4588.4
N2702L S/N 414A0608 CESSNA 414A

THE MAXIMUM CONTINUOUS ELECTRICAL LOAD DOES NOT EXCEED 80% OF TOTAL RATED CAPACITY PER AC 43.13-18, PARAGRAPH 11-33. POST-INSTALLATION GROUND CHECKS WERE PERFORMED IN ACCORDANCE WITH THE MANUFACTURER INSTALLATION MANUALS AND FOUND TO OPERATE PROPERLY. WEIGHT AND BALANCE RECORDS AND EQUIPMENT LIST REVISED. AN OPERATIONAL FLIGHT TEST MUST BE PERFORMED BY AN APPROPRIATELY RATED PILOT WITH AT LEAST A PRIVATE PILOT CERTIFICATE AND ENTERED INTO THE AIRCRAFT RECORDS TO COMPLY WITH THE REQUIREMENTS OF FAR 91.407(b).

INSTRUCTIONS FOR CONTINUED AIRWORTHINESS ARE ATTACHED AS ADDITIONAL SHEETS FOLLOWING BLOCK 8 OF THE FAA FORM 337 DATED 10-15-2012, AND ARE NOW PART OF THE AIRCRAFT'S INSPECTION AND MAINTENANCE REQUIREMENTS.

**** ITEM # 5563-3 INSTALL GA35 GPS ANT AND RG400 COAX ****

DISCREPANCY: INSTALL A GARMIN GA35 GPS/WAAS ANT ON THE TOP FUSELAGE LOCATION USING DER APPROVED DATA, AND INTERFACE TO THE GNS430W USING A FABRICATED RG400 COAXIAL CABLE ASSEMBLY.

Model: GA35 Part#: 013-00235-00 Serial#: 87645

ACTION: THE GA35 GPS/WAAS ANT, PART NUMBER (P/N) 013-00235-00, SERIAL NUMBER (S/N) 87645, WAS INSTALLED AT FLIGHT STATION 149 USING GEORGIAN AEROSPACE GROUP LEFT HAND (LH) GA35 GPS ANT DOUBLER INSTALLATION DRAWING NUMBER 70G-316F276, REVISION IR, DATED 10-02-2012; ANT DOUBLER DETAIL DRAWING NUMBER 00G-316D001, REVISION IR, DATED 08-26-2004; WITH FAA FORM 8110-3, DATED OCTOBER 02, 2012. THE GA35 GPS/WAAS ANT WAS INTERFACED TO THE GNS430W GLOBAL NAVIGATION SYSTEM GPS INPUT USING A FABRICATED RG400 COAXIAL CABLE ASSEMBLY. WEIGHT AND BALANCE RECORDS AND EQUIPMENT LIST REVISED. POST-INSTALLATION GROUND CHECKS WERE PERFORMED IN ACCORDANCE WITH THE MANUFACTURER INSTALLATION MANUAL AND FOUND TO OPERATE PROPERLY. INSTRUCTIONS FOR CONTINUED AIRWORTHINESS ARE ATTACHED AS

Wings Avionics, Inc. 421 Ernest Lancaster Dr. Fayetteville, AR 72701 W1NR1050
LOG ID# 3180 15-October-2012 WO# 5563 REF# 5563 HOBBS 4588.4
N2702L S/N 414A0608 CESSNA 414A

ADDITIONAL SHEETS FOLLOWING BLOCK 8 OF THE FAA FORM 337 DATED 10-15-2012, AND ARE NOW PART OF THE AIRCRAFT'S INSPECTION AND MAINTENANCE REQUIREMENTS.

**** ITEM # 5563-4 INSTALL GARMIN GNS430W IN PRIMARY RACK ****

DISCREPANCY: INSTALL A FACTORY NEW GARMIN GNS430W IN THE PRIMARY RACK ASSEMBLY VACATED BY THE PREVIOUSLY RELOCATED GNS430.

Model: GNS430W Part#: 011-01060-00 Serial#: 23434464

ACTION: INSTALLED A FACTORY NEW GARMIN GNS430W WIDE AREA AUGMENTATION SYSTEM (WAAS) GLOBAL NAVIGATION SYSTEM USING THE EXISTING GNS430 RACK ASSEMBLY AND EXISTING WIRING HARNESS. THE GNS430W GLOBAL NAVIGATION SYSTEM, PART NUMBER (P/N) 011-01060-00, SERIAL NUMBER (S/N) 23434464, WAS INSTALLED IN THE EXISTING PRIMARY GNS430 RACK ASSEMBLY USING THE EXISTING WIRING HARNESS CURRENTLY INTERFACED TO THE NSD360 HORIZONTAL SITUATION INDICATOR (HSI). INSTALLATION COMPLETED USING SUPPLEMENTAL TYPE CERTIFICATE (STC) NUMBER SA01933LA-D, DATED NOVEMBER 6, 2006; WITH AN AMENDED DATE OF NOVEMBER 20, 2007; WITH A REISSUE DATE OF JULY 31, 2009; USING APPROVED MODEL LIST (AML) FOR STC NUMBER SA01933LA-D, DATED NOVEMBER 6, 2006; WITH A REVISED AML DATE OF JULY 31, 2009.

A GARMIN GNS400W SERIES PILOT'S GUIDE AND REFERENCE, P/N 190-00356-00, REVISION (REV) G; A GNS400W SERIES QUICK REFERENCE GUIDE, P/N 190-00356-01, REV F; A GARMIN 400W/500W SERIES OPTIONAL DISPLAYS PILOT'S GUIDE ADDENDUM, P/N 190-00356-30, REV H; AND A GARMIN 400W/500W SERIES DISPLAY INTERFACES PILOT'S GUIDE ADDENDUM, P/N 190-00356-31, REV D, WERE PLACED IN THE AIRCRAFT RECORDS. A FEDERAL AVIATION ADMINISTRATION (FAA) APPROVED GNS400W SERIES APPROVED FLIGHT MANUAL SUPPLEMENT (AFMS), P/N 190-00356-03, REV B, DATED JULY 31, 2009, WAS PLACED IN THE AIRCRAFT RECORDS.

THE MAXIMUM CONTINUOUS ELECTRICAL LOAD DOES NOT EXCEED 80% OF TOTAL RATED CAPACITY PER AC 43.13-18,

Wings Avionics, Inc. 421 Ernest Lancaster Dr. Fayetteville, AR 72701 W1NR1050
LOG ID# 3180 15-October-2012 WO# 5563 REF# 5563 HOBBS 4588.4
N2702L S/N 414A0608 CESSNA 414A

PARAGRAPH 11-33. WEIGHT AND BALANCE RECORDS AND EQUIPMENT LIST REVISED. POST-INSTALLATION GROUND CHECKS WERE PERFORMED IN ACCORDANCE WITH THE MANUFACTURER INSTALLATION MANUAL AND FOUND TO OPERATE PROPERLY. AN OPERATIONAL FLIGHT TEST MUST BE PERFORMED BY AN APPROPRIATELY RATED PILOT WITH AT LEAST A PRIVATE PILOT CERTIFICATE AND ENTERED INTO THE AIRCRAFT RECORDS TO COMPLY WITH THE REQUIREMENTS OF FAR 91.407(b).

FACTORY SUPPLIED GARMIN 400W SERIES INSTRUCTIONS FOR CONTINUED AIRWORTHINESS, DOCUMENT NUMBER 190-00356-65, REVISION B, DATED JULY 30, 2009, ARE ATTACHED AS ADDITIONAL SHEETS FOLLOWING BLOCK 8 OF THE FAA FORM 337 DATED 10-15-2012, AND ARE NOW PART OF THE AIRCRAFT'S INSPECTION AND MAINTENANCE REQUIREMENTS.

**** ITEM # 5563-5 INSTALL GPS 696 WITH AIRGIZMO MOUNT ****

DISCREPANCY: INSTALL GARMIN GPS696 WITH AIRGIZMO DOCKING STATION.

Model: 696 Part#: 010-00667-40 Serial#: 1H6014865

ACTION: INSTALLED AN AIRGIZMO 696/696 PANEL DOCK, S/N 3958, IN THE SECONDARY RADIO STACK LOCATION VACATED BY THE PREVIOUSLY REMOVED IN152A RADAR INDICATOR AND RNAV COMPUTER. INSTALLATION COMPLETED IN ACCORDANCE WITH THE AIRGIZMO 696/696 PANEL DOCK INSTALLATION INSTRUCTIONS, REVISION 3, DATED MARCH 3, 2010; AND AC 43.13-28, PARAGRAPHS 202 AND 203. THE GPSMAP 696, P/N 010-00667-40, S/N 1H6014865, WAS INSTALLED IN THE PANEL DOCKING STATION, AND INTERFACED THROUGH A GARMIN POWER/DATA CABLE, P/N 010-11206-15, TO THE AVIONICS POWER BUSS THROUGH THE FACTORY SUPPLIED INLINE FUSE IN ACCORDANCE WITH THE GARMIN GPSMAP 696/696 OWNER'S MANUAL, P/N 190-00919-00, REV G; AND AC 43.13-18 CHANGE 1, PARAGRAPHS 11-30, 11-31, 11-32, 11-47, 11-48, 11-66, 11-76, 11-77, AND 11-96.

**** ITEM # 5563-6 EXTEND AUDIO PANEL WIRING. ****

Wings Avionics, Inc. 421 Ernest Lancaster Dr. Fayetteville, AR 72701 W1NR1050
LOG ID# 3180 15-October-2012 WO# 5563 REF# 5563 HOBBS 4588.4
N2702L S/N 414A0608 CESSNA 414A

DISCREPANCY: EXTEND AUDIO PANEL WIRING TO ALLOW RELOCATION OF UNIT TO PRIMARY RADIO STACK.

Model: 1000 SERIES Part#: 1000 SERIES Serial#: N/A

ACTION: INSPECTED AUDIO PANEL WIRING AND FOUND THE AUDIO PANEL WIRING BUNDLE WOULD NOT REACH THE NEW MOUNTING LOCATION. FOUND FOUR WIRES FROM AUDIO PANEL TO MAIN WIRING BUNDLE THAT NEEDED TO BE EXTENDED FOR RELOCATION OF EXISTING AUDIO PANEL. ADDED APPROXIMATELY 18 INCHES OF WIRE EXTENSION TO THE AFFECTED WIRES, SECURED WIRING WITH MAIN WIRING BUNDLE, AND RELOCATED AUDIO PANEL TO PRIMARY RADIO STACK LOCATION.

**** ITEM # 5563-7 MODIFY EXISTING RADIO PANEL MOUNTING ****

DISCREPANCY: MODIFY EXISTING RADIO PANEL MOUNTING TO ALLOW INSTALLATION OF AVIONICS EQUIPMENT.

Model: C414A Part#: C414A Serial#: 414A0608

ACTION: DISASSEMBLED CENTER RADIO STACK ASSEMBLY AFTER REMOVAL OF THE PREVIOUSLY REMOVED ARC 1000 SERIES RNAV UNIT, P/N 46030-1000, S/N 963; THE ARC 1000 SERIES NAV CONTROLLER, P/N 45720-0000, S/N 4039; THE ARC 1000 SERIES COM CONTROLLER, P/N 45670-0000, S/N 3866; THE ARC 1000 SERIES ADF MODE CONTROLLER, P/N C-1046A, S/N 906; AND THE BENDIX IN152A RADAR IND, P/N 4000946-5201, S/N 5816, FROM THE PRIMARY AND SECONDARY RADIO STACK MOUNTING LOCATIONS. REMOVED REMAINING ARC 1000 SERIES TRANSPONDERS, DISASSEMBLED, AND REMOVED REMAINDER OF CENTER INSTRUMENT PANEL FROM AIRCRAFT FOR MODIFICATION. REMOVED THE ARC COMM, NAV, AND ADF CONTROL HEAD MOUNTING HOLES FROM THE PRIMARY RACK STACK MOUNTING LOCATIONS, AND THE REMAINING ARC 1000 SERIES AUDIO PANEL FROM THE SECONDARY RADIO STACK MOUNTING LOCATION. FABRICATED NEW RADIO MOUNTING PANEL FROM .090 ALUMINUM SHEET METAL WITH PROPER LAYOUT FOR THE GARMIN GNS430W, THE GNS430, AND THE AUDIO PANEL IN THE PRIMARY RADIO STACK; THE GARMIN GPS 696 IN THE SECONDARY RADIO STACK, AND THE REMAINING 1000 SERIES TRANSPONDERS IN THE THIRD RADIO STACK. INSTALLED NEW RADIO PANEL IN AIRCRAFT AND SECURED WITH MOUNTING HARDWARE TO INSURE PROPER FIT. REMOVED UNFINISHED PANEL AND ALUMIPREP, ALODINED, CHROMATED, AND PAINTED NEW

Wings Avionics, Inc. 421 Ernest Lancaster Dr. Fayetteville, AR 72701 W1NR1050
LOG ID# 3180 15-October-2012 WO# 5563 REF# 5563 HOBBS 4588.4
N2702L S/N 414A0608 CESSNA 414A

Pg 7 / 7

CENTER PANEL SECTION TO MATCH ORIGINAL INSTRUMENT PANEL COLOR. REINSTALLED RADIO RACK IN AIRCRAFT AND INSTALLED EQUIPMENT MOUNTING RACKS. WORK ACCOMPLISHED IN ACCORDANCE WITH AC 43.13-2B, PARAGRAPHS 201, 202, AND 203.

**** ITEM # 5563-8 REASSEMBLE AIRCRAFT & DOCUMENTATION ****

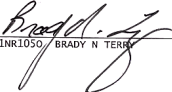
DISCREPANCY: REASSEMBLE AIRCRAFT, RAMP TEST AVIONICS SYSTEMS, AND COMPLETE FAA DOCUMENTATION.

Model: N/A Part#: N/A Serial#: N/A

ACTION: REASSEMBLED PREVIOUSLY REMOVED OVERHEAD INTERIOR AND PILOT SIDEWALL ASSEMBLIES FOR GPS ANTENNA INSTALLATION, AND INSTALLED GALLEY DIVIDER AFT OF PILOT SEATING. INSTALLED AVIONICS EQUIPMENT IN MOUNTING RACKS, PROGRAMMED UNITS, AND PERFORMED AVIONICS RAMP CHECKS. COMPLETED FAA DOCUMENTATION TO INCLUDE 337's, ICA, FLIGHT MANUAL SUPPLEMENTS, WEIGHT AND BALANCE, EQUIPMENT LIST REVISION, AND LOGBOOK ENTRIES.

MAINTENANCE RELEASE / RETURN TO SERVICE

THE AIRCRAFT, AIRFRAME, AIRCRAFT ENGINE, PROPELLER OR APPLIANCE IDENTIFIED ABOVE WAS REPAIRED AND INSPECTED IN ACCORDANCE WITH CURRENT REGULATIONS OF THE FEDERAL AVIATION ADMINISTRATION AND IS APPROVED FOR RETURN TO SERVICE.

 10-15-2012
W1NR1050 BRADY N TERRY Date

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				

Twelve Stone Aviation 802 Airport Ave. Hanger 5 Springdale, AR 72764 479-799-8065

N2702L HOBBS: 4719.8 ACTT: 4698.8 DATE: 04/01/13

PERFORMED INSPECTION IAW CESSNA 414A MAINTENANCE MANUAL ANNUAL CHECKLIST. REMOVED ALL PANELS. INSPECTED ALL CABLES, PULLEYS AND BELLCRANKS. LUBED ALL MOVABLE SURFACES. INSPECTED ALL FLIGHT CONTROLS, FUSELAGE, WINGS, EMPANAGE AND LANDING GEAR. JACKED AIRCRAFT. REMOVED SQUAT SWITCH, CLEANED CONNECTIONS, RE-INSTALLED, OPS CK GOOD. 21 HOURS ACCUMULATED ON HOBBS DUE TO FAILURE OF SQUAT SWITCH THAT DOES NOT COUNT TOWARD TOTAL TIME OF AIRCRAFT, ENGINES WERE NOT RUNNING, PLANE NOT MOVING. CHECKED BRAKES, LUBED ALL WHEEL BEARINGS. LUBED LANDING GEAR. PERFORMED NORMAL GEAR RETRACTION. LANDING GEAR OPERATED NORMALLY. REMOVED AIRCRAFT FROM JACKS. ELT CHECKED PER 91.207d. NEW ELT BATTERY DUE 02/2014. SERVICED BRAKES WITH MIL-H-5606. SERVICED TIRES WITH NITROGEN. SERVICED OXYGEN. ALL AD'S CHECKED THROUGH 06/28/2013. ALL PANELS RE-INSTALLED. GROUND RUN PERFORMED. ALL SYSTEMS OPERATED NORMALLY. NO DISCREPANCIES NOTED. I CERTIFY THAT THIS AIRCRAFT HAS BEEN INSPECTED IN ACCORDANCE WITH AN ANNUAL INSPECTION & WAS DETERMINED TO BE IN AIRWORTHY CONDITION. KEVIN S. DAVIS

Kevin S Davis
AP4314761481A

Wings Avionics, Inc. 421 Ernest Lancaster Dr. Fayetteville, AR 72701 W1NR1050
LOG ID# 3453 03-December-2013 WO# 5883 REF# 5883 HOBBS 4719.8
N2702L S/N 414A0608 CESSNA 414A

Pg 1 / 2

**** ITEM # 5883-1 CHK PRIMARY ATTITUDE GYRO-FAILED IN FLT ****

DISCREPANCY: CHECK PRIMARY ATTITUDE GYRO-CUSTOMER REPORTED UNIT FAILED IN FLIGHT, AND INVERTER CIRCUIT BREAKER TRIPPED.

Model: SPC-10 Part#: SPC-10 Serial#: 562

ACTION: RAMP TESTED AND DUPLICATED CUSTOMER COMPLAINT. REMOVED GLARE SHIELD ASSEMBLY TO GAIN ACCESS TO THE SPERRY GH-14 HORIZON GYRO, DISCONNECTED THE GYRO MATING PLUG, RESET THE INVERTER CKT BRKR, RETESTED, AND FOUND INVERTER CKT BRKR DID NOT TRIP. CONTACTED FACTORY TECHNICAL ASSISTANCE, OBTAINED THE PIN DIAGRAM FOR THE SPERRY GH-14 HORIZON GYRO, P/N 4020501-432, CHECKED AC VOLTAGE INPUT AT GYRO MATING CONNECTOR, AND FOUND 26V AC INPUT VOLTAGE WAS BELOW 10 VOLTS. PROBLEM ISOLATED TO FAULTY AC INVERTER. DISASSEMBLED FORWARD AVIONICS BAY COVERS AND REMOVED THE DV-101A DYNAVERTER, P/N 43320-0000, S/N 1-780-B, (AVIONIC INSTRUMENTS 1A100-2A1), BENCH TESTED UNIT, AND VERIFIED COMPLAINT. ATTEMPTED TO LOCATE REPLACEMENT UNIT BUT WAS UNABLE TO SECURE UNIT. CONTACTED MANUFACTURER FOR REPAIR BUT WAS ADVISED UNIT NO LONGER REPAIRABLE. NOTIFIED CUSTOMER AND DECISION REACHED TO LOCATE AND INSTALL A REPLACEMENT INVERTER. INSTALLED A KGS ELECTRONICS SPC-10 STATIC INVERTER, S/N 562, CERTIFIED TO FAA TSO-C73, AND DO-160 ENVIRONMENTAL CATEGORY. REMOVED WIRING FROM THE EXISTING MATING PLUG, EXTENDED WIRING WITH WIRE SPLICES, AND REWIRED AS FOLLOWS: PIN A=28 VOLT DC INPUT; PIN B=DC GROUND; PIN C=AC RETURN COMMON; PIN F=26 VOLT AC @ 400 HZ. THE UNIT MOUNTING LOCATION WAS MOVED FROM THE BOTTOM OF THE UPPER AVIONICS ACCESS COVER PANEL TO THE AVIONICS BAY FLOOR MOUNTING LOCATION TO IMPROVE STRUCTURAL MOUNTING INTEGRITY. MECHANICAL INSTALLATION COMPLETED IN ACCORDANCE WITH AC 43.13-28, PARAGRAPHS 202 AND 204; AND ELECTRICAL INSTALLATION COMPLETED IN ACCORDANCE WITH AC 43.13-18 CHANGE 1, PARAGRAPHS 11-30, 11-31, 11-32, 11-47, 11-48, 11-66, 11-76, 11-77, AND 11-96. RAMP TESTED AND FOUND AC INVERTER OPERATIONAL WITH CORRECT VOLTAGE MEASURED AT GYRO MATING CONNECTOR. REINSTALLED HORIZON GYRO, RAMP TESTED, AND FOUND OPERATIONAL. REINSTALLED GLARE SHIELD ASSEMBLY, PERFORMED FINAL RAMP TEST, AND FOUND HORIZON GYRO AND AUTOPILOT OPERATIONAL.

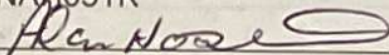
Wings Avionics, Inc. 421 Ernest Lancaster Dr. Fayetteville, AR 72701 W1NR1050
LOG ID# 3453 03-December-2013 WO# 5883 REF# 5883 HOBBS 4719.8
N2702L S/N 414A0608 CESSNA 414A

Pg 2 / 2

MAINTENANCE RELEASE / RETURN TO SERVICE
THE AIRCRAFT, AIRFRAME, AIRCRAFT ENGINE, PROPELLER OR APPLIANCE IDENTIFIED ABOVE WAS REPAIRED AND INSPECTED IN ACCORDANCE WITH CURRENT REGULATIONS OF THE FEDERAL AVIATION ADMINISTRATION AND IS APPROVED FOR RETURN TO SERVICE.

Brady N Terry 12.3.2013
WINR1050 BRADY N TERRY Date

TOTALS—Carry forward to next page

DATE	w/10 #11835			DRK
	Each Static Pressure System, Each Altimeter Instrument & Each Automatic Pressure Altitude Reporting System has been tested and inspected and found to comply with Appendix "E" of FAR 43, as required by FAR 91.411.			
	Altimeter #1 SN	3554	PN	CA-801A
	#2 SN	4A433	PN	C661014101
	NORTHWEST ARKANSAS AVIONICS, INC.			
	5404 AIRPORT BLVD.			
	FORT SMITH, ARKANSAS 72903			
	CRS QNAR051K			
	Date	3/11/14	Signature	
	The ATC Transponder has been tested and inspected and found to comply with appendix "F" of FAR Part 43, as required by FAR 91.413.			
	Transponder #1 SN	83747117	PN	67X-327
	#2 SN	1278	PN	42260-1028

Twelve Stone Aviation 802 Airport Ave. Hanger 5 Springdale, AR 72764 479-799-8065

N2702L HOBBS: 4784.0 ACTT: 4763.0 DATE: 03/28/14

PERFORMED INSPECTION IAW CESSNA 414A MAINTENANCE MANUAL ANNUAL CHECKLIST. REMOVED ALL PANELS. INSPECTED ALL CABLES, PULLEYS AND BELLCRANKS. LUBED ALL MOVABLE SURFACES. INSPECTED ALL FLIGHT CONTROLS, FUSELAGE, WINGS, EMPANAGE AND LANDING GEAR. JACKED AIRCRAFT. REPLACED MAIN AND NOSEWHEEL BEARINGS AND RACES WITH NEW. REMOVED RIGHT AND LEFT HAND MLG ACTUATORS FOR O/H. INSTALLED R/H AND L/H MLG ACTUATORS AFTER O/H BY AIR CAPITAL JET LLC CRS#7AIR653Y. LUBED LANDING GEAR. PERFORMED NORMAL GEAR RETRACTION. LANDING GEAR OPERATED NORMALLY. REMOVED AIRCRAFT FROM JACKS. ELT CHECKED PER 91.207d. NEW ELT BATTERY DUE 05/2016. REPLACED TAIL POSITION LAMP WITH NEW. REPLACED R/H LANDING LIGHT ASSEMBLY WITH O/H UNIT FROM AEROSPACE TURBINE ROTABLES INC. CRS#NV2RO45L, PN45-0148-9, SN422393. REPLACED R/H WING OUTBOARD STATIC WICK WITH NEW. SERVICED BRAKES WITH MIL-H-5606. SERVICED TIRES WITH NITROGEN. SERVICED OXYGEN. ALL AD'S CHECKED THROUGH 03/28/2014. ALL PANELS RE-INSTALLED. GROUND RUN PERFORMED. ALL SYSTEMS OPERATED NORMALLY. NO DISCREPANCIES NOTED. I CERTIFY THAT THIS AIRCRAFT HAS BEEN INSPECTED IN ACCORDANCE WITH AN ANNUAL INSPECTION & WAS DETERMINED TO BE IN AIRWORTHY CONDITION.

KEVIN S. DAVIS

Kevin S Davis
AP4314761481A

5-1-14 N2702L 2000 HOBBS REPLACED HOBBS WITH NEW UNIT
4780.0 ACTT WITH READING OF 200.0

SUB-TOTALS this page

TOTALS—Carry forward to next page

D. Twelve Stone Aviation 802 Airport Ave. Hanger 5 Springdale, AR 72764 479-799-8065

N2702L HOBBS: 330.0 ACTT: 4910.0 DATE: 05/10/15

PERFORMED INSPECTION IAW CESSNA 414A MAINTENANCE MANUAL ANNUAL CHECKLIST. REMOVED ALL PANELS. INSPECTED ALL CABLES, PULLEYS AND BELLCRANKS. LUBED ALL MOVABLE SURFACES. INSPECTED ALL FLIGHT CONTROLS, FUSELAGE, WINGS, EMPANAGE AND LANDING GEAR. JACKED AIRCRAFT. REPLACED MAIN TIRES AND TUBES WITH NEW. REPLACED O-RINGS IN BOTH BRAKE CALIPERS. REPLACED ALL BRAKE LININGS WITH NEW. SERVICED BRAKES WITH 5606. REPLACED PRESSURIZATION TUBE FROM BULKHEAD TO HEATER WITH NEW PN 5117257-2. REMOVED C AND D COMBUSTION HEATER AND REPLACED AFTER REPAIR BY HAROLD HASKINS INC. REPLACED VOLTMETER WITH SERVICEABLE UNIT. REPLACED VOLT/AMP SELECTOR SWITCH WITH SERVICEABLE UNIT. REPLACED R/H VOLTAGE REGULATOR WITH NEW. REPLACED R/H ALTERNATOR DIODE WITH NEW. LUBED LANDING GEAR. PERFORMED NORMAL GEAR RETRACTION. LANDING GEAR OPERATED NORMALLY. REMOVED AIRCRAFT FROM JACKS. SOLDERED WIRE ON R/H NAV LT AND REPLACED LAMP WITH NEW. REPLACED ALL O-RINGS IN SHIMMY DAMPNER WITH NEW. SERVICED WITH 5606. ELT CHECKED PER 91.207d. NEW ELT BATTERY DUE 05/2016. SERVICED BRAKES WITH MIL-HI-5606. SERVICED TIRES WITH NITROGEN. SERVICED OXYGEN. ALL AD'S CHECKED THROUGH 05/10/2015. ALL PANELS RE-INSTALLED. GROUND RUN PERFORMED. ALL SYSTEMS OPERATED NORMALLY. NO DISCREPANCIES NOTED. I CERTIFY THAT THIS AIRCRAFT HAS BEEN INSPECTED IN ACCORDANCE WITH AN ANNUAL INSPECTION & WAS DETERMINED TO BE IN AIRWORTHY CONDITION.

KEVIN S. DAVIS

Kevin S. Davis
AP4314761481A

Twelve Stone Aviation 802 Airport Ave. Hanger 5 Springdale, AR 72764 479-799-8065

N2702L SN: 414A0608 HOBBS: 271.4 DATE: 01/21/15

REPLACES SHIPS BATTERY WITH NEW CONCORDE RG24-20, SN. 40680983. GROUND RUN PERFORMED. ALL SYSTEMS OPERATED NORMALLY. NO DISCREPANCIES NOTED. RETURN TO SERVICE.

KEVIN S. DAVIS

Kevin S. Davis
AP4314761481A

Twelve Stone Aviation 802 Airport Ave. Hanger 5 Springdale, AR 72764 479-799-8065

N2702L HOBBS: 457.3 ACTT: 5037.3 DATE: 03/15/16

REPLACED O-RINGS IN R/H OLEO STRUT. SERVICED WITH MIL H5606 AND NITROGEN. GROUND RUN PERFORMED. TAXIED AIRCRAFT. ALL SYSTEMS OPERATED NORMALLY. NO DISCREPANCIES NOTED. RETURN TO SERVICE.

KEVIN S. DAVIS

Kevin S. Davis
AP4314761481A

DATE

Each Static Pressure System, Each Altimeter Instrument & Each Automatic Pressure Altitude Reporting System has been tested and inspected and found to comply with Appendix "E" of FAR 43, as required by FAR 91.411.

Altimeter #1 SN 3554 PN 43300-61288

#2 SN 44433 PN 5934 PA-1

NORTHWEST ARKANSAS AVIONICS, INC.

5404 AIRPORT BLVD.

FORT SMITH, ARKANSAS 72903

CRS QNAR051K

Date 7/5/16

Signature *Chris H. Oet*

The ATC Transponder has been tested and inspected and found to comply with appendix "F" of FAR Part 43, as required by FAR 91.413.

Transponder #1 SN 83747117 PN GTX-327

#2 SN 84110247 PN RT-859A

Twelve Stone Aviation, LLC

802 Airport Rd. Hanger 5 Springdale, AR 72764

REGISTRATION: N2702L

AIRFRAME T.T.: 5064 6

DATE: 07/29/2016

MODEL: C414A

HOBBS: 0484.6

S.N. 414A0608

- ANNUAL INSPECTION
- REPLACED ELT BATTERY WITH NEW. ELT CHECKED PER 91.207d, NO DEFECTS NOTED. BATTERY DUE APRIL 2023
- REPLACED O-RINGS IN BRAKE CALIPERS BOTH SIDES
- REPLACED ALL REGULATOR AND VACUUM FILTERS WITH NEW
- REPLACED L/H AND R/H ENGINE INDUCTION AIR FILTERS WITH NEW
- REPLACED RHEOSTAT IN COCKPIT OVERHEAD LIGHT CIRCUIT WITH NEW
- SERVICED FREON IN A/C SYSTEM
- REMOVED HEATER FOR REPAIR BY HASKINS INC. INSTALLED AFTER REPAIR.
- INSPECTED HEATER. HOBBS 000 0 AD 04-21-05 DUE 05/2017 OR 000 0 HEATER HOBBS.
- AD'S CHECKED THROUGH 07/29/2016

I CERTIFY THIS AIRFRAME HAS BEEN INSPECTED IN ACCORDANCE WITH ANNUAL INSPECTION AND WAS FOUND TO BE IN AIRWORTHY CONDITION.

KEVIN S. DAVIS

AP4314761481A

Twelve Stone Aviation, LLC

802 Airport Rd. Hanger 5 Springdale, AR 72764

REGISTRATION: N2702L

AIRFRAME T.T.: 5060 0

DATE: 05/29/2016

MODEL: C414A

HOBBS: 0480.0

S.N. 414A0608

- REPLACED PILOT SIDE WINDSHIELD WITH SERVICEABLE GLASS WINDSHIELD USING NEW GASKETS SEALS AND HARDWARE
- REPLACED ALL O-RINGS IN LEFT MAIN STRUT WITH NEW. SERVICED WITH 5606 AND NITROGEN
- INSTALLED J.P.I. EDM 790 ENGINE MONITOR, SEE 337 THIS DATE

GROUND RUN, ALL OPS NORMAL, RETURN TO SERVICE

KEVIN S. DAVIS

AP4314761481A

ORR

D,

REGISTRATION: N2702L	AIRFRAME T.T.: 5202.2	DATE: 09/01/2017
MODEL: C414A	HOBBS: 622.2	S.N.: 414A0608

- ANNUAL INSPECTION
- REPLACED ELT BATTERY WITH NEW. ELT CHECKED PER 91.207d, NO DEFECTS NOTED. BATTERY DUE APRIL 2023
- REPLACED O-RINGS IN BRAKE CALIPERS BOTH SIDES
- REPLACED ALL REGULATOR AND VACUUM FILTERS WITH NEW
- REPLACED L/H AND R/H ENGINE INDUCTION AIR FILTERS WITH NEW
- REPLACED RHEOSTAT IN COCKPIT OVERHEAD LIGHT CIRCUIT WITH NEW
- SERVICED FREON IN A/C SYSTEM
- REMOVED HEATER FOR REPAIR BY HASKINS INC. INSTALLED AFTER REPAIR
- INSPECTED HEATER. HOBBS 000.0. AD 04-21-05 DUE 05/2017 OR 000.0 HEATER HOBBS.
- AD'S CHECKED THROUGH 07/29/2016

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

KEVIN S DAVIS

AP43147614814

SUB-TOTALS this page

TOTALS—Carry forward to next page

Cessna 414A S/N 414A-0608 N2702L

10/4/2018 Hobbs Time 750.8

Total Time 5330.8

Inspected aircraft in accordance with FAR 43 appx D and Cessna 414A service manual. Removed all inspection plates, checked and lubed all pulleys and hinge attachments. Checked tension on all control cables. Removed and replaced E.L.T. Battery, P/N BS2173 in accordance with FAR 91.207. Battery next due (10/20).

Serviced main aircraft battery, replaced tail nav light with new GE 307 bulb. Replaced cabin Instrument air filter with new P/N (AM103535IA.) Replaced both Vacuum regulator filters with new (P/NB3-5-1). Cleaned and inspected left and right fuel strainers. Removed Pilot and co-pilots seat and left and right AC evaporators and related cabinetry to gain access to remove left and right side prop cables and heat exchanger cables. Replaced both prop cables with new from RAM Aircraft P/N 1220-25 & P/N 1220-26. Replaced left and right side heat exchanger cables with serviceable cables. Removed 2 front moisture cabin drains and replaced with new P/N CM3575-4. Installed left and right evaporators and installed Freon gas to book specs. Check AC system and service Hydraulic system. Installed Pilot and co-pilot seats and related cabinetry. Removed and sent out Oxygen Bottle and Emergency Landing Gear Blow down bottle for Hydrostatic test to Aerospace turbine retables. Due dates as follows: Oxygen bottle- 9/13/2021, Blow down bottle- 9/13/2023

Jacked aircraft, replaced several leaking O-ring's in nose area of Hydraulic system. Removed and replaced left main gear trunnion front and aft pivot pins and replaced with P/N 5141107-1. Replaced left side middle scissors bushing with P/N 5041013-3. Removed and replaced right side main gear trunnion aft pivot pin P/N 5141107-1. Removed and replaced left and right hydraulic filters P/N AN6235-2A and O-rings P/N MS28775-224 from Ram Aircraft. Removed left side main gear hydraulic line and replaced with new, P/N CM3690-A60140. Rebuilt nose shimmy Damper using new O-rings and filled with 5606 Oil. Removed wheels, sand blasted and re painted outside wheel haft to match. Replaced left and right side main gear door hinge pins. Removed all wheel bearings, inspected and re-packed with grease. Installed 2 new good year custom Flight III tires and tubes on left and right side main gear with 650x10X8 tires. Inspected brake linings, 50% remaining with normal ware. Serviced hydraulic landing gear system. Completed landing Gear retraction and extension operation 5 times, no leaks noted and system functions properly. Inspected emergency gear for proper operation. Adjusted emergency gear pull cable for proper operation. Drained left side fuel tank, removed left fuel boost pump and installed overhauled pump from Aircraft Accs, P/N 2B7-29. Completed installation test of Inlet float valves, all passed. Test fuel pump and fuel system, function properly. Removed left and right side fuel bay dry area inspection panels, cleaned under wing area and paint area and panels to match. Removed left side waste gate and sent to Aircraft Accs, for repair. Removed complete exhaust system from Slip joints aft for completion of AD 00-01-16, Para G. 12 year or 2500 Hours. Sent to Aerospace welding Minneapolis, INC for overhaul and reinstalled completed system with new clamps, bolts and nuts. Removed and installed new elevator trim assembly forward and aft bolt, nut and pin as per AD 16-17-08. Removed Heater combustion fan, installed new D&C combustion fan from Herold Haskins Inc. Inspected heater for proper operation and inspected heater regulator for fuel leaks, none noted. Inspected pilots side windshield for delamination, found windshield delamination within limits of Cessna 414A service manual. Drilled out and replaced 5 loose rivets on left side elevator top skin. Replaced left prop deicer boot on blade, P/N 4E1601-10.

Test flight aircraft for proper systems check, all functions appear normal.

Ed Allen

Cert# 3602934

C/W AD 00-01-16 Exhaust. Complied with Section B,C,D,E and G

C/W AD 95-09-13 Inlet float valves, Due every 600 hours.

C/W AD2004-25-16 R1, No fuel leakage noted.

C/W AD 16-17-08, Para F (2) Elevator trim tab assembly. Due every 110 TIS/12 months

AD 17-10-09 N/A

AD 18-03-05R1 due at TIS 15000. Hours

Checked and complied with all AD's through 10/4/2018, all work accomplished per Cessna 414A Service Manual. Checked POH for up to Date POH.

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

Tim Rogers

Cert# 430238276

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				
<p>Edmonds Aviation, LLC - 2615 S. Main St Searcy, AR 72143 - 870-217-9588</p> <p>Reg: <u>N2702L</u> Make: <u>Cessna</u> Model: <u>414A</u> Serial# <u>414A0608</u> W/O# <u>0058</u></p> <p>This ATC Transponder has been tested, inspected and found to comply with 14 CFR Part 43 Appendix F, as required by 14 CFR Part 91.413</p> <p>Transponder #1 P/N <u>GTX345</u> S/N <u>3EG025678</u> Transponder #2 P/N <u>NA</u> S/N <u>NA</u></p> <p>Signed C.R.S. # 34LR157D Date <u>06/10/2021</u> EA029</p> <p>Edmonds Aviation, LLC - 2615 S. Main St Searcy, AR 72143 - 870-217-9588</p> <p>Reg: <u>N2702L</u> Make: <u>Cessna</u> Model: <u>414A</u> Serial# <u>414A0608</u> W/O# <u>0058</u></p> <p>Each Static Pressure System, each Altimeter and each Automatic Pressure Altitude Reporting System has been tested and found to comply with 14 CFR Part 43 Appendix E, as required by 14 CFR Part 91.411 Tested to <u>30K</u> ft.</p> <p>Altimeter #1 P/N <u>4330-61288</u> S/N <u>3554</u> Altimeter #2 P/N <u>5834PA-1</u> S/N <u>4A433</u> Encoder #1 P/N <u>4330-61288</u> S/N <u>3554</u> Encoder #2 P/N <u>NA</u> S/N <u>NA</u></p> <p>Signed C.R.S. # 34LR157D Date <u>06/10/2021</u> EA030</p>				
<p>INTERIORS UNLIMITED, INC. 5604 Philip J. Rhoads Ave. Wiley Post Airport, Hanger #3 Bethany, OK 73008</p> <p>The aircraft and/or component identified below was repaired and inspected in accordance with current Federal Aviation Regulations and was found to be airworthy for return to service.</p> <p>Work Order No. <u>I-1655</u> FAA Certificate# <u>A-3142113</u></p> <p>Tach Time: <u>Cessna 414A</u> <u>S/N- 414A0608</u> <u>N2702L</u></p> <p>Signature of Authorized Individual <u>[Signature]</u> Date <u>July 6, 2021</u></p> <p>Make and install new cabin window curtains and divider privacy curtains. All materials used meet or exceed FAR 25.853(a) Appendix F Part I (a) (I), (ii).</p> <p>Curtain Fabric: <u>Space - Moon</u> G. Baker Steeves Corp.</p>				
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				
<p>AIR IMPRESSIONS, INC. PROFESSIONAL AIRCRAFT SERVICE</p> <p>7929 Karl May Dr. Waco, Texas 76708</p> <p>Cessna S/N 414A-0608 N2702L</p> <p>CRS No. AK6R541N</p> <p>On above referenced aircraft, removed inspection plates and panels for Annual/100 Hour Inspections. Checked 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. Installed RAM overhauled engine, S/N 514121, on left side. (See engine entry.) Installed overhauled propeller, model P/N PHC-C3YF-2UF, S/N EB1542 on left side. Troubleshoot pressurization and corrected leaks per replacement of several ducts, etc. Installed wiring kits, P/N's SK421-119B3 and SK421-119B1 for heated glass PPG windshield and ops checked good. Installed new upper entry door extender, P/N 5211369-11. C/W A.D. 2000-01-16 per paragraph (b), (c), (d) and (e). (Paragraph (b) next inspection due at 1296.1 HM.) (Paragraph (g) due 7830.8 Aircraft TT or 10/2030.) Installed new left propeller cable, P/N 1220-25. (FAA/PMA RAM.) Installed new left pilot's rudder return spring. Installed inner cables for both warm air pressure on co-pilot's instrument panel. Installed new pilot and co-pilots air vents. Installed Rosen visor system per STC SA5137NM. (See 337.) Troubleshoot electrical problem with lights and installed new day/night switch. C/W A.D. 87-21-02(R1) per installation of fuel filler port restrictor kits. Installed correct placards at fuel filler ports. Resealed all gear uplock actuators. Installed nose gear main actuator P/N 9910139-3, S/N 410. (See tag.) Installed new nose gear uplock actuator forward support channel. Installed new brake discs and pad linings. Installed new main and nose tires. Replaced rivets for skin at lower wings and around gear door hinges as needed. Adjusted wheel alignment and camber per Service Manual. Resealed nose strut assembly. Installed new right main gear door hinge pin. Cleaned and treated flap wells. Installed new air conditioner system hydraulic filter. Installed new central vacuum filter. Installed both new dry air pumps. (See tags.) Cleaned and treated in AFT wheel well access panel areas. Repaired fuel leak at outboard right wing access panel. Installed new lower heater plenum duct. C/W A.D. 2016-17-08 per installation of new elevator trim tab rod hardware. (Next due at 1356 HM.) C/W A.D. 2004-25-16(R1) per MEB01-5. (Next due at 1346.1 HM.) ELT unit tested per FAR 91.207(d) requirements. (Battery next due 07/2023.) All A.D.'s researched through bi-weekly 2021-19. All above work done in accordance with 414A 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 #5256.</p> <p>Air Impressions, Inc. CRS# AK6R541N</p>				
<p>AIR IMPRESSIONS, INC. PROFESSIONAL AIRCRAFT SERVICE</p> <p>7929 Karl May Dr. Waco, Texas 76708 CRS No. AK6R541N</p> <p>I certify this <u>Aircraft</u> has been inspected in accordance with a Annual Inspection/100 Hour Inspection and has been determined to be in an airworthy condition.</p> <p>DATE <u>10/04/2021</u> HM <u>1246.1</u> AIRCRAFT TT <u>5826.1</u> WORK ORDER #<u>5256</u> SIGNED <u>[Signature]</u> AIR IMPRESSIONS, INC. REPAIR STATION # AK6R541N</p>				
SUB-TOTALS this page				
TOTALS—Carry forward to next page				

Premier
Aircraft Service

3804 Falcon Way W
Hangar 18S
Fort Worth, TX 76106
Phone: 562.881.5345


- Replaced pilot PTT switch 913X

SIGNED:

Chad Cox, License: AP3782800 IA

Work Order: 0692

Printed by EBis 3 (datcomedia.com)

Troubleshoot and repair engine instrument lights. Installed one each 2N3055 transistor in heat sink. Installed new wing deice light bulb. Installed new vertical card compass. Removed fuel selector panel. Cleaned and polished panel lenses. Painted panel around cutouts and reinstalled. Reinstalled cabin and cockpit seats and dividers removed for access. Adjusted left storm window. David Bogan A&P 4552165423 

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
------	-----------------------	---------------------------	------------------------------	---



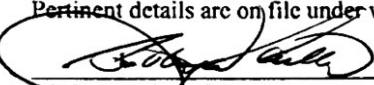
AIR IMPRESSIONS, INC.
PROFESSIONAL AIRCRAFT SERVICE

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

Aircraft TT: 5918.6
Hour Meter: 1338.6
Date: 12/12/2022
Heater HM: 300.8

Cessna S/N 414A-0608 N2702L

On above referenced aircraft, removed inspection plates and panels for Annual/100 Hour Inspections. Checked 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), (e). (Paragraph (b) next due 1388.6 HM.) Installed new left exhaust tailpipe, P/N A9910299-1, S/N 235619. (See tag.) Adjusted lower entry doorstep deployment. Installed placards for courtesy tables. Repaired wiring for fuel quantity post lights. Installed fuel filler port placards. Replaced seal at AFT nose wheel well. C/W A.D. 95-09-13 per inspection and test of fuel inlet float valves. (Next due at 1938.6 HM or 6518.6 Aircraft TT.) C/W A.D. 2016-17-08 per installation of new hardware. (Next due at 1448.6 HM or 12/2023.) C/W A.D. 2004-25-16(R1) per MEB01-5. (Next due at 1438.6 HM or 12/2023.) Performed inspection of ELT unit per FAR 91.207(d) requirements. (Battery next due 07/2023.) Installed new Hoskins memory batteries. Cleaned and treated in lower vertical access area. Installed overhauled right fuel crossfeed valve, P/N 9910201-2, S/N A1001. (See tag.) Installed one new bearing and race assembly for nose wheel. Resealed fitting for upper left main gear actuator. Reinstalled cockpit seat belts properly. All A.D.'s researched through bi-weekly 2022-24. All above work done in accordance with 414A 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 #5597.


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/100 Hour Inspection and has been determined to be in an airworthy condition.

DATE 12/12/2022 HM 1338.6

AIRCRAFT TT 5918.6

WORK ORDER #5597

SIGNED _____

AIR IMPRESSIONS, INC
REPAIR STATION # AK6R541N

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

**1900 CARDIFF RD
BROOKSHIRE TX, 77423**

11/17/2023 N2702L 414A 414A0608 H/M 1465.6 ACTT 6045.6

Completed 100 Hour/Annual inspection this date in accordance with FAR 43 Appendix D and using Cessna 414A maintenance manual as a reference. Clean, inspect and lubricate all cables, hinges, pulleys, bellcranks etc. Replace ELT battery with new P/N BP-1020. Inspect ELT and perform functional check in accordance with FAR 91.207(d). Clean, inspect and re-pack all wheel bearings. Clean, inspect and lubricate landing gear. Perform gear retraction and emergency extension tests. Complied with 12 Month portable fire extinguisher weight check. No discrepancies were noted at this time. Service oxygen system. Remove landing gear blow down bottle P/N 9910154-3, S/N 25J1. Re-install S/N 25J1 after overhaul by Aerospace Turbine Rotables Inc. FAA CRS NV2R045L, Ref. WO 196890, dated 29/SEP/2023. Replace both left and right vacuum regulator filters with new P/N B3-5-1 filters All AD's checked thru bi-weekly 2023-22. ++

C/W AD 2000-01-16: Exhaust system cracks and corrosion. Complied with part (b) by visually inspecting exhaust systems. No discrepancies were noted at this time. NOTE: next due at H/M 1565.6. Complied with part (c) by removing both tail pipes, cleaning and visually inspecting. No discrepancies were noted at this time. NOTE: next due in 12 Months or NOV. 2023. Part (d) is next due at H/M 6371.0. Complied with part (e) by pressurizing and leak checking both exhaust systems. No discrepancies were noted at this time. NOTE: next due in 12 Months or NOV. 2024. Part (g) Replace exhaust from slip joints forward is next due in 2024 or H/M 7422.9

C/W AD 04-21-05: Janitrol pressure decay test. No discrepancies were noted at this time. NOTE: next due 3/2024.

C/W AD 2004-25-16 R1: Heater fuel regulator shutoff valves by visual inspection of valve for leaks. No discrepancies were noted at this time. NOTE: next due in 12 months or NOV 2024

C/W AD 2016-17-08: Elevator trim tab attach hardware by visual inspection. No discrepancies were noted at this time. NOTE: next due in 12 Months or NOV, 2024.

I certify that I have inspected this aircraft in accordance with current FAR's and a 100 Hour/Annual inspection and was found to be in airworthy condition at this time and is approved for return to service.

Kenneth Griffith
Kenneth Griffith AP46734347IA

BODE AVIATION INC. 2502 Clark Carr Loop SE Albuquerque, NM 87106



N2702L

Model: Cessna 414A

S/N: 414A0608

CRS#J7BR555Y

Date: 06/14/2024

Hobbs: 1732.6

Airframe

1. Removed RH engine cowlings to inspect for oil leak. Found oil fill cap not fastened closed. Cleaned engine compartment from oil remains, inspected for any other leaks none were found. Serviced engine with 5qts Aeroshell W100 oil. Verified in the TSIO-520NB EMM standard practices manual M-0 Rev No1 change 5 dated 1-15-24, Ch 6-5 there are no unscheduled inspections to be performed.
2. Performed engine ground runs IAW TSIO-520NB EMM standard practices manual M-0 Rev No1 change 5 dated 1-15-24 Ch. 7-3.3 dated Sep/15/2019. Operation and leak checks good.
3. Re-secured single propeller deice boot on RH side IAW Hartzell IPSM #180 Ch.30-61-80 rev.43 dated Feb24.

I certify that this aircraft is airworthy for return to service with regard to the above work performed.

NAME: Eric Hanawalt
PD-LBEI-1 Rev. 1 01/20/2020

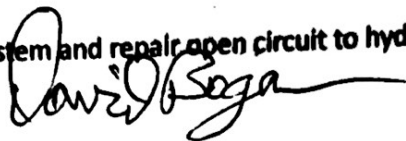
WO#ABQC-6159

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

6-20-24 N2702L

Troubleshoot air conditioner system and repair open circuit to hydraulic solenoid valve.

David Bogan A&P 455216543



wo: WO_1261

Airframe - page 1 of 1

FirstLine

AERO

First Line Aero, LLC · 458 CR 1618 · Rusk, TX 75785 · 903-316-8331

N2702L

CESSNA, 414A, S/N: 414A0608

July 31, 2024

TACH: 1726.4

AFTT: 6306.4

1. Requested AC check, ops checked good.
2. C/W AD 00-01-16, engine exhaust repetitive insp, lubed slips joints with Mouse Milk, visual insp completed, no cracks or holes noted.
3. Performed GVI on gear trunnions, no cracks noted at this time.
4. Ops checked windshield heat, operates normally on ground.
5. Ops checked prop heat, both sides function normally on ground.
6. Cleaned LH and RH engine boot pressure valves, boots operate normally on ground.
7. Customer purchase 4 qts of w100 oil. Installed (4) P/N 100W Aeroshell - Oil.

The listed maintenance was assisted by the following apprentices: Uryan Aracena, Ben Lightfoot, and Ryan Crossman.

Work performed IRW Cessna 414 MM's where applicable. Operational and leak check performed, no defects noted at this time. With respect to the work performed, this aircraft is approved for return to service.

Charles Crossman A&P/IA 3440359

Andrew Trampus A&P 4896008



wo: WO_1347

Airframe - page 1 of 1

FirstLine

AERO

First Line Aero, LLC · 458 CR 1618 · Rusk, TX 75785 · 903-316-8331

N2702L

CESSNA, 414A, S/N: 414A0608

September 03, 2024

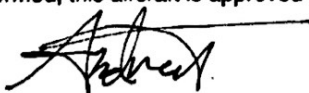
TACH: 1799.4

AFTT: 6379.4

LH MLG tire worn beyond limits. Removed and replaced tire. Serviced tires w/ N2 as needed. Installed P/N GL6525 Leakguard - 6.50/10 GL6525B, Installed P/N 650C06-3 - 6.50-10 10ply GY FC III.

Work performed IRW Cessna 414 MM's where applicable. Operational and leak check performed, no defects noted at this time. With respect to the work performed, this aircraft is approved for return to service.

Andrew Trampus A&P 4896008



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
------	--------------------------------	------------------------------------	---------------------------------------	---

wo: WO_1353

Airframe - page 1 of 1

FirstXLine

— A E R O —

First Line Aero, LLC · 458 CR 1618 · Rusk, TX 75785 · 903-316-8331

N2702L

CESSNA, 414A, S/N: 414A0608

September 05, 2024

TACH: 1826.6

AFTT: 6406.6

1. LH Engine No. 5 EGT INOP. Removed and replaced EGT probe w/ serviceable probe.
2. LH Fuel Flow INOP. Harness at transducer broken. Reconnected broken wire and shielding. Ops normal.
3. RH ENG cowl flap cable unable to unlock and pull due to sheered roll pin. Jam nut was added to allow operation of cowl flap, pin will be ordered and replaced during next visit.
4. CW AD 2000-01-16, Amendment 39-11514; Docket No. 97-CE-67-AD. Eff date Feb 15, 2000. CW 50hr Visual (b), No defect found. Charles The listed maintenance was assisted by the following apprentices: Uryan Aracena, Jonathan Bryan, and Ben Lightfoot.

Work performed IRW Cessna 414 MM's where applicable. Operational and leak check performed, no defects noted at this time. With respect to the work performed, this aircraft is approved for return to service.

Andrew Trampus A&P 4896008

Charles Crossman A&P/IA 3440359



wo: WO_1382

Airframe - page 1 of 1

FirstXLine

— A E R O —

First Line Aero, LLC · 458 CR 1618 · Rusk, TX 75785 · 903-316-8331

N2702L

CESSNA, 414A, S/N: 414A0608

October 21, 2024

TACH: 1863.4

AFTT: 6443.4

Installed Oil Drain STC SA4024NM, twin engine kit. Replacement valve PN BJ107, AN900-10 crush gas-ket. Filed FAA Form 337. All work done w reference to Cessna 414 series MM and STC Installation instructions.

T.J. Hunter A&P/IA 3554698




Wingspan Aviation

Airframe

1322 County Road 1143 Tyler TX, 75704

Date: 18 Apr 25

N-Number: N2702L

AFTT: 6749.9

Cessna 414A

SN: 414A-0608

Inspected aircraft in accordance with Cessna model 414/414a series AMM. Changed R/H MLG tire with goodyear flight custom III 6.50x10. Removed and Reinstalled overhauled electric DG PN: 52D1372331 SN: 10492C from Rudy's aircraft instruments. Replaced overhauled copilot Artificial horizon PN: RCA 22-7 SN: 910232. Replaced L/H baggage locker bulb PN: GE-1309. Replaced prop heat brushes P/N RAB40189. C/W AD 16-17-08 Para F(2) next due at AFTT 6859.9 April 2026. C/W AD 00-01-16 part (b)(c)(e). C/W AD 95-09-13 next due at AFTT 7349.9. ELT unit tested per FAR 91.207(d). All work was completed in accordance with Cessna series 414/414A AMM. I certify that this aircraft has been inspected in accordance with an annual inspection guide and has been determined to be airworthy.

Name: Colton Maughan Signature:

Cert. No: A&P3928436 IA

TOTALS — Carry forward to next page



Wingspan Aviation
1322 County Road 1143 Tyler TX, 75704

Airframe

Date: 7 May 25

N-Number: N2702L

AFTT:6255.0

Cessna 414A
SN: 414A-0608

Due to Maintenance, detailed logbook research was completed and the Hobbs meter is corrected as follows:

Hobbs time as of the date of this entry is 2,602.1 Total time on Aircraft is 6,255.0 hours.

Based on logbook research and flight logs, the following times are correct as of the date of this entry:

Hobbs: 2,602.1

Aircraft Total Time: 6,255.0

LH Engine SMOH: 672.9


RH Engine SMOH: 1,190.4

LH Prop SPOH: 672.9

RH Prop SPOH: 1,190.4

Name: Colton Maughan Signature:

Cert. No: A&P3928436

1. Approving Civil Aviation Authority/Country: FAA/United States		2. AUTHORIZED RELEASE CERTIFICATE FAA Form 8130-3, AIRWORTHINESS APPROVAL TAG		3. Form Tracking Number: 9678647	
4. Organization Name and Address: Textron Aviation Inc. (PC4) Textron Aviation Inc. 1 Cessna Blvd, Wichita, KS 67215				5. Work Order/Contract/Invoice Number: 6203844	
6. Item: 90	7. Description: SENSOR	8. Part Number: 9910094-4	9. Quantity: 1	10. Serial Number: 81116411	11. Status/Work: New
12. Remarks: AUTHORIZED RELEASE DOCUMENT PO#: POP15221-AF					
13a. Certifies the items identified above were manufactured in conformity to: <input checked="" type="checkbox"/> Approved design data and are in a condition for safe operation. <input type="checkbox"/> Non-approved design data specified in Block 12.			14a. <input type="checkbox"/> 14 CFR 43.9 Return to Service <input type="checkbox"/> Other regulation specified in Block 12 Certifies that unless otherwise specified in Block 12, the work identified in Block 11 and described in Block 12 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.		
13b. Authorized Signature: 		13c. Approval/Authorization No.: PC4		14c. Approval/Certificate No.:	
13d. Name (Typed or Printed): TERRY WEEKS		13e. Date (dd/mm/yyyy): 22/Apr/2025		14d. Name (Typed or Printed): 14e. Date (dd/mm/yyyy):	
User/Installer Responsibilities					
It is important to understand that the existence of this document alone does not automatically constitute authority to install the aircraft engine/propeller/article.					
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 aircraft engine(s)/propeller(s)/article(s) from the airworthiness authority of the country specified in Block 1.					
Statements in Blocks 13a and 14a 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.					



Wingspan Aviation 1322 County Road 1143 Tyler TX, 75704

Date: 1 May, 2025 Hobbs: 2602.1 N-Number: N2702L Model/Serial No: C414A/ 414A0608

Removed defective Alternator Out Sensor Cessna P/N 9910094-4, Lamar P/N B-00329-2, S/N 80327014. Installed new Alternator Out Sensor P/N 9910094-4, Lamar P/N B-00329-2, S/N 81116411, Lot# 1164. Installed IAW Cessna Model 414/414A SM. Performed operational test with no fault found.

Name: Norman Wright

Signature:

A handwritten signature in blue ink that reads "Norman Wright". The signature is written in a cursive, flowing style.

Cert. No: 3476116A&P

