

Log Book #
SEPT 2003

THE **adlog**TM AIRCRAFT
MAINTENANCE
RECORDKEEPING
SYSTEM

**AIRFRAME
MAINTENANCE
RECORDS**

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





AIRFRAME MAINTENANCE RECORDS

Log No. 184

Aircraft Registration No. N6815T

Aircraft Mfg. CESSNA Model 414A Serial No. 414A0645

Engine Mfg. _____ Model _____ Serial No. _____

Engine Mfg. _____ Model _____ Serial No. _____

Propeller Mfg. _____ Model _____ Serial No. _____

Hub Design No. _____ Hub Serial No. _____

Blade Design No. _____ Blade Serial No's. _____

Propeller Mfg. _____ Model _____ Serial No. _____

Hub Design No. _____ Hub Serial No. _____

Blade Design No. _____ Blade Serial No's. _____

(All applicable information must be filled in)



AEROTECH PUBLICATIONS INC.

PO BOX 1359 / SOUTHOLD, NY 11971-0965

(516) 765-9375

1-800-235-6444

FAX: (516) 765-9359

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

AIRFRAME LOG ENTRY

DATE: 9-19-2003
 N# 6815T
 MODEL: CESSNA 414A
 S/N: 414-0645

ACTT: 3743.5
 HOBBS: ~~404.0~~ **550, 1**

Maintenance completed in accordance with most recent related maintenance manuals. Replaced air conditioner sight glass, due to leak. Installed new M124FZ glass. Replaced air conditioning blower motor. Installed Cessna P/N JBS27-5. serviced system with 2.92 lbs. R12 refrigerant. Operational check satisfactory, no leaks were noted at this time. Replaced Aircraft battery, Installed new Gill G-246 battery, S/N GO2047412. Cleaned cable ends, battery box and cover, operational Check satisfactory. Replaced Right and left brake discs, installed (2) ea. P/N 164-20306 discs. Replaced right main tire, Installed new Condor 6.50 X 10 8 ply tire, P/N 078-3450, S/N 0295W00217 with existing tube.
 STEVEN JOHNSON A&P 397604650

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:

N# 6815T

Removed, repaired, and reinstalled KNS-80 S/N 11138. Repaired intercom wiring. Ops check good.

-----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: 9/16/03 HOBBS: 550 W.O.# 3827 SIGNED: Ryan Walsh

3606 Corben Ct. - Madison, WI 53704 - CSR No. DBKR124D
 (608) 268-5006 (608) 268-5038 FAX

AIRFRAME LOG ENTRY
EMERY AIR, INC.

GREATER ROCKFORD AIRPORT, ROCKFORD, IL 61109

CESSNA 414A
 N6815T
 S/N: 414A-0645


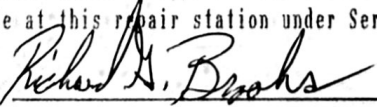
WO: 17181
 8-22-2003
 HM: 0537.9

TROUBLESHOT & REMOVED LEFT ALTERNATOR P/N 649304G S/N K069907. OR, INSTALLED TCM REBUILT P/N 649304A1 S/N 002KA056R (SEE 8130-3 DATED 11/26/2002) I/A/W 414 SERVICE MANUAL. OPERATIONALLY TESTED GOOD



W.O. NO 17181 Date 8-21-03
 Signed [Signature]
 Approved For Return To Services With Respect
 To The Work Performed
 EMERY AIR, INC.
 Greater Rockford Airport, Rockford, IL 61109
 F.A.A. Approved Repair Station No. E81R759X

SUB-TOTAL this page

TOTAL—Carry forward to next page

DATE	TOTAL TIME IN SERVICE	TACH OR RECORDING METER TIME	DESCRIPTION OF WORK PERFORMED— SIGNATURE & CERTIFICATE NO. OF PERSON PERFORMING WORK
			TOTAL brought forward from previous page
			AVIATION MAINTENANCE MANAGEMENT 4601 MURVIHILL ROAD VALPARAISO, IN. 46383 Phone: 219-771-8802 Fax: 219-531-2695
			September 26, 2003 HM: 550.8 hrs. C-414AW S/N: 414A-0645 N6815T
			1) Troubleshoot erroneous L/H alternator inoperative annunciation. Tightened several loose wiring connections on L/H alternator terminals and noted the same condition on L/H system. Swapped left and right hand alternator diode modules for troubleshooting purposes, swapped same back to original positions following runup checks. Swapped left and right hand "Alternator-Inop." sensors. Removed failed sensor from R/H alternator system, P/N: 9910094-4, S/N: UNK.. Installed Factory-new sensor into R/H alternator system, P/N: 9910094-4, Alt. P/N: B-00329-2, S/N: 80361620. Subsequent runup checks of both alternator systems were satisfactory.
			 J.Y. SMITH 346486694 IA
			MAYDAY AVIONICS, INC. GERALD R. FORD INTERNATIONAL AIRPORT
			1) Removed KMA-24, R-446A, IN-346A, and dual RT-459As. Installed GMA-340, dual GTX-327s, and PC-125-12B. Replaced dual AK-350s with dual SAE5-35s (no change to weight & balance). All items are TSO'd and were installed IAW their respective installation manuals with reference to AC 43-13-1B Chapter 11 and AC 43-13-2A Chapter 2
			2) Removed KY-196, KNS-80, KX-155, KI-204, and KLN-90A. Installed dual GNS-530s, GI-106A, MD41-1468A, and TRC-497. Removed IN-152A and installed EX500 IAW STC SA00161B0. Installed PAV80 System IAW STC SA02707AT. Reference FAA form 337 this date for details and ICAs.
			3) Removed KA-91 and installed dual GA-56s, NY-164, and CI-248-10. Reference FAA form 337 this date for details and ICAs.
			4) Replaced the #1 & #2 transponder antenna coax and the #2 transponder antenna.
			5) Certified the #1 & #2 Altimeter, #1 & #2 Transponder, #1 & #2 Encoder, and #1 & #2 Static System IAW 91.411 & 91.413. System complies with Paragraph (c), Appendix E, of Part 43. Certified to <u>30,000</u> feet.
			The above work was performed in accordance with current FAA Regulations and in respect to work performed the aircraft identified below is approved for return to service. Pertinent details of the work performed are on file at this repair station under Service Order No. <u>40398</u> .
			REVISED WEIGHT AND BALANCE.  DATE: FEB 06 2004
			NEW A/C E.W.: 5307.66 FOR FAA CRS ITS947M CESSNA 414A NEW A/C C.G.: 155.00 S/N 414A0645 NEW A/C MOMENT: 822692.81 USA N6815T HOBBS: 602.1 NEW A/C USEFUL LOAD: 1779.34
			5500 44TH STREET SE GRAND RAPIDS, MI 49512

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			TOTAL brought forward from previous page
			N 6815T
	Airframe log book entry	Date: 2/6/2004	Hobbs Time: 602.2
	Make: Cessna	Model: 414A	Total Time: 3804.9
		Serial No: 414A0648	Landings: N/A
<p>Removed right hand taxi light from wing and found drive gear in gear box striped out. Installed new worm gear and reinstalled landing light. Ops checked normal.</p> <p>Installed new pressurization duct p/n 5117257-2 in nose.</p> <p>Installed new door light switch.</p> <p>Complied with AD 2000-01-16, part b, visual inspection of exhaust system on both engines. Right engine turbo wye was cracked. Removed turbo wye and sent out for repairs. Reinstalled repaired turbo wye. Repair completed by Knisley Exhaust Systems CRS# NJ3R712L WO# 113322.</p> <p>The work identified above was performed in accordance with the current Federal Aviation Regulations and was found to be airworthy for return to service. Pertinent details are on file at this agency under;</p> <p>Work Order # 40246 Signed: <u>Wayne Bely</u> for CRS N81R812N Northern Air Inc., P.O. Box 888380, Gerald R. Ford Int'l Airport, Grand Rapids, MI. 49588-8380</p>			
Lumanair, Inc. Aurora Municipal Airport Sugar Grove, IL.			
<p>Resealed left MLG strut and installed following parts. 0841212-1 ring, CM2690-14 ring, MS28776M2-22 scraper, and MS28889-2 valve.</p> <p>Lumanair, Inc. FAA Certified Repair Station # CGFR811C</p> <p style="text-align: right;"><u>David M Hoaglund</u> David M Hoaglund</p> <p>Date: 3/22/04 WO # LUM2952 Hobbs: 635</p>			
			N 6815T
	Airframe log book entry	Date: 4/14/2004	Hobbs Time: 645.4
	Make: Cessna	Model: 414A	Total Time: 3846.1
		Serial No: 414A0645	Landings:
<p>Performed an Annual inspection on this airframe per the Cessna 414 series, service, maintenance, manual.</p> <p>Performed annual ELT inspection and operational checks per FAR 91.207(d). The ELT battery expires April of 2005.</p> <p>Performed AD 96-20-07 Heater Pressure Decay and Pressure Switch Test. Heater and switch passed test. Inspected heater found ok. Heater HOBBS: 757.0.</p> <p>Installed two new hydraulic filters on left and right wing systems. Safetied.</p> <p>Installed new vacuum regulator filters.</p> <p>Installed a new bearing cone on outboard wheel half of right main landing gear.</p> <p>Installed new light bulbs for digital fuel flow and right hand pedestal.</p> <p>Performed 50 HOUR and 100 HOUR lubrication items.</p> <p>Installed new battery drain fairing under left wing. Re-installed battery box and sealed.</p> <p>Installed new brake linings on left brake. Installed one new isolator shim, reinstalled back plates, torqued and safetied.</p> <p>Installed new outboard static wick base on right aileron.</p> <p>Adjusted yaw damper cable tension IAW Cessna 414A service manual.</p> <p>Adjusted elevator control cable tension IAW Cessna 414A service manual.</p>			
			SUB-TOTAL this page
			TOTAL —Carry forward to next page

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TOTAL brought forward from previous page																							
			Adjusted elevator trim cable tension IAW Cessna 414A service manual. Adjusted aileron cable tension IAW Cessna 414A service manual. Adjusted elevator trim travel IAW cessna service manual section 6-10. Adjusted elevator travel IAW cessna 414A service manual. Installed new yaw damper pulleys just aft of actuator with two S378-1 pulleys. Installed new left lower aileron cable pulley in left outboard flapwell. Fabricated patch for right main gear door. Sealed patch to dam damaged area. Ops check ok. Replaced both fuel cap seals. Installed new aileron auto pilot servo cable top pulley. Re-tensioned auto pilot servo cable. Operational and travel checks within limits. Resealed left main uplock actuator. Ops check satisfactory. Performed operational check of static port heater and found ops check ok. Replaced wire in left cowl taxi light. Installed new elevator trim horn bearing and replaced corroded hardware. Performed AD 2000-01-16 Inspection of Left and Right Engine Exhaust Components per visual and pressure tests of paragraphs B,C. and E. Performed an operational and leak check, as needed, on the above listed items, and no discrepancies were noted. This work was done per the Cessna 414 series service maintenance manual. I certify that this aircraft has been inspected in accordance with an Annual Inspection & was determined to be in an airworthy condition. Pertinent details on file at this agency under; Work Order <u>40590</u> Signed: <u>Wayne Bishop</u> for CRS N81R812N Northern Air Inc., P.O. Box 888380, Gerald R. Ford Int'l Airport, Grand Rapids, MI. 49588-8380																				
			<table border="1" style="width:100%; border-collapse: collapse;"> <tr> <td style="width:15%;">REG. NO.</td> <td style="width:25%;">N6815T</td> <td style="width:30%; text-align:center;">MIDWEST AVTECH INC.</td> <td style="width:10%;">DATE</td> <td style="width:20%;">09/04/04</td> </tr> <tr> <td>MAKE</td> <td>CESSNA</td> <td style="text-align:center;">I.V. REGIONAL AIRPORT</td> <td>FHM</td> <td>669.4</td> </tr> <tr> <td>MODEL</td> <td>414AW</td> <td style="text-align:center;">P.O. BOX 451</td> <td>T.T.</td> <td></td> </tr> <tr> <td>S/N</td> <td>414A-0645</td> <td style="text-align:center;">PERU, IL 61354</td> <td>SMOH</td> <td></td> </tr> </table> <p>SERVICED BOTH ENGINE COOLANT SYSTEMS IAW RAM INSTRUCTIONS - SERVICED OXYGEN SYSTEM - SERVICED LANDING GEAR BLOW DOWN BOTTLE WITH NITROGEN</p> <p>THE AIRCRAFT OR ENGINE IDENTIFIED ABOVE WAS REPAIRED AND INSPECTED IAW CURRENT FARs - ONLY THE WORK DESCRIBED ABOVE IS APPROVED FOR RETURN TO SERVICE</p> <p style="text-align:right;">CHARLES M. STUDER <u>Charles M. Studer</u> A&P 337545845 IA</p>	REG. NO.	N6815T	MIDWEST AVTECH INC.	DATE	09/04/04	MAKE	CESSNA	I.V. REGIONAL AIRPORT	FHM	669.4	MODEL	414AW	P.O. BOX 451	T.T.		S/N	414A-0645	PERU, IL 61354	SMOH	
REG. NO.	N6815T	MIDWEST AVTECH INC.	DATE	09/04/04																			
MAKE	CESSNA	I.V. REGIONAL AIRPORT	FHM	669.4																			
MODEL	414AW	P.O. BOX 451	T.T.																				
S/N	414A-0645	PERU, IL 61354	SMOH																				

LOGBOOK ENTRY MAYDAY AVIONICS INC.
 MFG Cessna MDL C414A HOBBS 630.3
 A/C REG N6815T S/N 414A0645 SO# 40800
Installed Edo Aire 52D137-1332 HST, S.N.
W14022C
 AFTER SERVICE WAS PERFORMED THIS SYSTEM AND ALL ASSOCIATED SYSTEMS WERE GROUND TESTED AS REQUIRED BY FAR 43.13 AND THE AIRCRAFT HAS BEEN APPROVED FOR RETURN TO SERVICE.
Perry Molegraf DATE 3-10-04
 CRS # IT5R947M

LOGBOOK ENTRY MAYDAY AVIONICS INC.
 MFG CESSNA MDL 414A HOBBS 0644.9
 A/C REG N6815T S/N 414A0645 SO# 40800
INSTALLED O'HAWLED EDO-AIRE 52D137-1332 HST
S/N OUT: W14022C S/N IN: 1-W 7954B
 AFTER SERVICE WAS PERFORMED THIS SYSTEM AND ALL ASSOCIATED SYSTEMS WERE GROUND TESTED AS REQUIRED BY FAR 43.13 AND THE AIRCRAFT HAS BEEN APPROVED FOR RETURN TO SERVICE.
Mike M. Danson DATE 4/5/04
 CRS # IT5R947M

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LOGBOOK ENTRY MAYDAY AVIONICS INC.
 MFG CESSNA MDL 414A HOBBS 0644.9
 A/C REG N6815T S/N 414A0645 SO# 40800
REMOVED P.S. ENG. PAW⁸⁰ DVD PLAYER S/N C01065
INSTALLED S/N C01107
 AFTER SERVICE WAS PERFORMED THIS SYSTEM AND ALL ASSOCIATED SYSTEMS WERE GROUND TESTED AS REQUIRED BY FAR 43.13 AND THE AIRCRAFT HAS BEEN APPROVED FOR RETURN TO SERVICE.
Mike M. Danson DATE 4/5/04
 CRS # IT5R947M

Block 1,
Block 1,
Statements in
national regulat
FAA Form 8130-3

TOTAL TIME IN	TACH OR RECORDING METER	DESCRIPTION OF WORK PERFORMED— SIGNATURE & CERTIFICATE NO. OF PERSON PERFORMING WORK	
REG. NO.	N6815T	MIDWEST AVTECH INC.	DATE 03/29/05
MAKE	CESSNA	I.V. REGIONAL AIRPORT	FHM 718.4
MODEL	414AW	4241 ED URBAN DR.	T.T. 3919.1
S/N	414A-0645	PERU, IL 61354	SMOH
<p>C/W AD 2000-01-16 PARA (b) BY VISUAL INSPECTION OF EXHAUST SYSTEMS, NEXT DUE AT 768 HRS FHM * PARA (c) BY REMOVAL AND INSPECTION OF TAILPIPES, NEXT DUE 03/06 * PARA (d) BY INSPECTION OF CANTED BULKHEADS AND ENGINE BEAMS, NEXT DUE AT 1218 HRS FHM * PARA (e) BY PRESSURE TEST OF EXHAUST SYSTEMS, NEXT DUE 03/06 * PARA (f) NOT REQUIRED DUE TO NO MULTI SEGMENT V-BAND CLAMPS INSTALLED - C/W AD 84-26-02 BY REPLACING ENGINE AIR FILTERS WITH NEW FILTERS (P12-8156), NEXT DUE AT 1218 HRS FHM - C/W AD 95-09-13 BY TESTING FUEL INLET FLOAT VALVES IAW MEB 93-10R1, NEXT DUE AT 1318 HRS FHM - C/W AD 2004-25-16 BY INSPECTING HEATER FUEL REGULATOR SHUT OFF VALVE IAW SB A-107A, NEXT DUE AT 818 HRS FHM - REMOVED AND REINSTALLED R/H ENGINE AFTER REPAIR BY RAM (SEE ENGINE LOG FOR DETAILS) - ENGINE WAS REINSTALLED USING NEW TURBO MOUNT BRACKET (2032-1-NP), NEW TURBO SUPPORT BRACKET ASSY (1234-1), NEW WASTEGATE ELBOW (1967-3) S/N 18U67-0007, NEW TURBO WYE ASSY (1967-1) S/N IC062-0003 AND NEW EXHAUST AND TAILPIPE SUPPORT CLAMPS AS NEEDED - REMOVED AND REINSTALLED R/H PROP AFTER REPAIR BY AIRCRAFT PROPELLER (SEE PROP LOG FOR DETAILS) - REPAIRED R/H NOSE COWL - REPAIRED L/H ICE LIGHT WIRING, OPS CHECK GOOD - REPLACED 4 MISSING STATIC WICKS AND MOUNT BASES - REPLACED COMPASS LIGHT BULB, OPS CHECK GOOD - CLEANED VOLTAGE GAGE FUSE CONNECTIONS, OPS CHECK GOOD - REPLACED VACUUM SYSTEM CENTRAL FILTER AND REGULATOR FILTERS - REPLACED L/H ENGINE DRIVEN HYDRAULIC PUMP WITH OVERHAULED PUMP, P/N 24194LAA, S/N 20805 (SEE FORM 8130-3) - REPLACED L/H TOP CHT PROBE, OPS CHECK GOOD - SERVICED OXYGEN SYSTEM TO 1850 PSI - REPLACED ALL 3 TIRES AND TUBES - INSTALLED 2 AMP MAINTENANCE CIRCUIT BREAKER FOR FLIGHT HOUR METER - REPLACED L/H ENGINE TAILPIPE SUPPORT BRACKET RIVETS - REPLACED L/H OUTBOARD EXHAUST SUPPORT CLAMP (CONTINUED)</p>			

REG. NO.	N6815T	MIDWEST AVTECH INC.	DATE 03/29/05
MAKE	CESSNA	I.V. REGIONAL AIRPORT	FHM 718.4
MODEL	414AW	4241 ED URBAN DR.	T.T. 3919.1
S/N	414A-0645	PERU, IL 61354	SMOH
<p>(CONTINUED) REPLACED AIR CONDITIONING SYSTEM ENGINE DRIVEN HYDRAULIC PUMP P/N 24343-LAD, S/N S021126TS (SEE FORM 8130-3), DRAINED AND SERVICED A/C HYDRAULIC SYSTEM AND REPLACED FILTER, SYSTEM OPS AND LEAK CHECKS GOOD - REPLACED COWL MOUNT LANDING LIGHT LENS COVERS WITH PMA PARTS (1317-29 / 30) - BLED AND SERVICED BOTH BRAKE SYSTEMS - REPLACED R/H PROP DEICE BRUSHES (B40189), SYSTEM OPS CHECKS GOOD - PERFORMED GEAR RETRACTION - REPLACED R/H BAGGAGE COMP. LIGHT BULB, OPS CHECK GOOD - REPLACED ELT BATTERY, SYSTEM OPS CHECKS GOOD IAW FAR 91.207, NEXT BATTERY CHANGE DUE 03/07</p> <p>I CERTIFY THAT THIS AIRCRAFT HAS BEEN INSPECTED IAW FAR 43 APPENDIX D FOR AN ANNUAL INSPECTION AND WAS FOUND TO BE IN AN AIRWORTHY CONDITION</p>			

WILLIAM E. MIGLIORINI *William E. Migliorini* A&P 360625846 IA

REG. NO.	6815T	MIDWEST AVTECH INC.	DATE 07/21/05
MAKE	CESSNA	I.V. REGIONAL AIRPORT	FHM 754.6
MODEL	414AW	P.O.BOX 451	T.T.
S/N	414A-0645	PERU, IL 61354	SMOH
<p>REPLACED CABIN DOOR AFT SUPPORT CABLE WITH NEW PMA PART - REPLACED L/H CYLINDER HEAD TEMP GAGE WITH SERVICABLE GAGE S/N 95B0036 (SEE FORM 8130-3) - REPLACED L/H CHT PROBE WITH NEW PROBE, SYSTEM OPS CHECKS GOOD - SERVICED OXYGEN SYSTEM TO 1800 PSI - CLEANED AIR CONDITIONER EVAPORATORS</p> <p>THE AIRCRAFT OR ENGINE IDENTIFIED ABOVE WAS REPAIRED AND INSPECTED IAW CURRENT FARs - ONLY THE WORK DESCRIBED ABOVE IS APPROVED FOR RETURN TO SERVICE</p>			

WILLIAM E. MIGLIORINI *William E. Migliorini* A&P 360625846 IA

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REG. NO.	N6815T
MAKE	CESSNA
MODEL	414AW
S/N	414A-0645

MIDWEST AVTECH INC.
I.V. REGIONAL AIRPORT
4241 ED URBAN DR.
PERU, IL 61354

DATE	04/27/06
FHM	807.3
T.T.	4008.0
SMOH	

C/W AD 2000-01-16 PARA (b) BY VISUAL INSPECTION OF EXHAUST SYSTEM, NEXT DUE AT 857 HRS FHM, PARA (c) BY REMOVAL & INSPECTION OF TAILPIPES, NEXT DUE 04/07, PARA (d) BY PRESSURE TEST OF EXHAUST SYSTEM, NEXT DUE 04/07 - C/W AD 2004-21-05 BY PRESSURE TEST OF HEATER COMBUSTION TUBE AND TEST OF COMBUSTION PRESSURE SWITCH, NEXT DUE AT 888 HRS HHM OR 04/08 (CURRENT HHM 788.4) - C/W AD 2004-25-16R1 BY INSPECTING HEATER FUEL REGULATOR SHUT-OFF VALVE, NEXT DUE AT 907 HRS FHM - C/W AD 2005-20-25 BY REPLACING BOTH AVIONICS BUS CIRCUIT BREAKER SWITCHES WITH NEW P/N CM3589-50 SWITCHES WITH DATE CODES 0603, NO FURTHER ACTION REQUIRED - REPLACED INSULATOR ON R/H BRAKE CYLINDER (P/N 068-03100) - REPLACED BOTH MAIN GEAR DOOR HINGE PINS (S485913) - REPLACED FUEL CAP O-RINGS - REPLACED NOSE GEAR STEERING BELLCRANK WITH NEW BELLCRANK (P/N 5942001-1) - REPLACED SEVERAL RIVETS ON R/H AFT NACELLE FAIRING - REPLACED L/H OUTBOARD EXHAUST STACK CLAMP - REPLACED RIVETS ON L/H TAILPIPE CLAMP BRACKET - REPLACED HEATER COMBUSTION AIR INLET DUCT (P/N F222036) - INSPECTED ELT SYSTEM IAW FAR 91.207, NEXT BATTERY CHANGE DUE 03/07

I CERTIFY THAT THIS AIRCRAFT HAS BEEN INSPECTED IAW FAR 43 APPENDIX D FOR AN ANNUAL INSPECTION AND WAS FOUND TO BE IN AN AIRWORTHY CONDITION

WILLIAM E. MIGLIORINI *William E. Migliorini* A&P 360625846 IA

THE FOLLOWING ALTIMETER SYSTEM AND ALTITUDE REPORTING EQUIPMENT TESTS AND INSPECTIONS AS REQUIRED BY FAR 91.411 iaw FAR 43 APPENDIX "E" HAVE BEEN PERFORMED.

AVIONICS PLACE FQ5R866M ROCKFORD IL

PARA (A) STATIC SYSTEM

DATE 05 02 06

PARA (B) ALTIMETER

PILOTS 5934 PAD-1 S/N V6116

C.P.'s 5934 PA-3 S/N 391176

TESTED TO 30,000 FT. DATE 05 02 06

PARA (C) INTEGRATED SYSTEM TEST

DATE 05 02 06 W.O.# 9734

SIGNED BY Paul A. Edwards

ATC TRANSPONDER TESTS AND INSPECTIONS AS REQUIRED BY FAR 91.413 iaw FAR 43 APPENDIX "F"

HAVE BEEN PERFORMED:

DATE 05 02 06

AVIONICS PLACE FQ5R866M ROCKFORD IL

MODEL GTX327/GTX327 S/N 9371547/9371549

SIGNED BY Paul A. Edwards

REG. NO.	N6815T
MAKE	CESSNA
MODEL	414A
S/N	414A0645

MIDWEST AVTECH INC.
I.V. REGIONAL AIRPORT
P.O. BOX 451
PERU, IL 61354

DATE	09/28/06
FHM	840.0
T.T.	
SMOH	

REPLACED R/H AUX FUEL PUMP WITH OVERHAUL PUMP, P/N 2B7-29, S/N 10AB18 (SEE FORM 8130-3), SYSTEM OPS AND LEAK CHECKS GOOD - REPLACED L/H FUEL FLOW TRANSDUCER WITH NEW TRANSDUCER, P/N 680501-1, S/N 143595, SYSTEM OPS AND LEAK CHECKS GOOD

THE AIRCRAFT OR ENGINE IDENTIFIED ABOVE WAS REPAIRED AND INSPECTED IAW CURRENT FARs - ONLY THE WORK DESCRIBED ABOVE IS APPROVED FOR RETURN TO SERVICE

WILLIAM E. MIGLIORINI *William E. Migliorini* A&P 360625846 IA

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The FAA Form 8130-3 and 144 Form are required. The aircraft may be flown.

DATE

REG. NO.	N6815T
MAKE	CESSNA
MODEL	414AW
S/N	414A-0645

MIDWEST AVTECH INC.
I.V. REGIONAL AIRPORT
4241 ED URBAN DR.
PERU, IL 61354

DATE	06/28/07
FHM	845.5
T.T.	4046.2
SMOH	

PERFORMED ALL 100 HR, 200 HR AND ANNUAL INSPECTION ITEMS PER CESSNA CHECKLIST D778-34-13 - C/W AD 2000-01-16 PARA (b) BY VISUAL INSPECTION OF EXHAUST SYSTEM, NEXT DUE AT 895 HRS FHM, PARA (c) BY REMOVAL & INSPECTION OF TAILPIPES, NEXT DUE 06/08, PARA (d) BY PRESSURE TEST OF EXHAUST SYSTEM, NEXT DUE 06/08 - REMOVED AND REINSTALLED R/H EXHAUST STACK ASSY ON BOTH ENGINES AFTER OVERHAUL BY DAWLEY (SEE YELLOW TAGS) - REMOVED AND REINSTALLED L/H TAILPIPE AFTER OVERHAUL BY DAWLEY (SEE YELLOW TAG) - REPLACED L/H WASTEGATE ELBOW CLAMP WITH NEW RAM CLAMP (P/N 2163-1) - EXHAUST STACKS WERE REINSTALLED USING NEW GASKETS (P/N 652458) - C/W AD 2004-25-16R1 BY INSPECTING HEATER FUEL REGULATOR SHUT-OFF VALVE, NEXT DUE AT 907 HRS FHM - REPLACED L/H MLG DOOR HINGE (P/N 5127050-15 AND 5122115-27) - REPLACED L/H AIR CONDITIONER EVAPORATOR FAN MOTOR WITH NEW MOTOR (P/N JBS27-5) - REPLACED ALL 8 R/H BRAKE LININGS (P/N 066-06600), CONDITIONED BRAKES PER CLEVELAND INSTRUCTIONS - REPLACED MAGNETO PRESSURIZATION FILTERS WITH NEW RAM FILTERS (P/N 1396-2) - REPLACED HYDRAULIC SYSTEM FILTERS (P/N AN6235-2A) - SERVICED OXYGEN SYSTEM - FLUSHED AND SERVICED ENGINE COOLANT SYSTEMS IAW RAM INSTRUCTIONS - REPLACED L/H CHT PROBE (P/N2853) - REPLACED R/H ALTERNATOR OUT SENSOR (P/N 9910094-4), SYSTEM OPS CHECKS GOOD - REPLACED VACUUM SYSTEM CENTRAL FILTER (P/N AM103535IA) AND REGULATOR FILTERS (B3-5-1) - C/W 400 HOUR AIR CONDITIONER CONDENSOR AND EVAPORATOR FAN INSPECTIONS - C/W 400 HOUR HEAT EXCHANGER INSPECTION - C/W 500 HOUR BAROMETRIC PRESSURE SWITCH FUNCTIONAL TEST - C/W 400 HOUR NOSE GEAR DRAG BRACE INSPECTION - C/W 400 HOUR CABIN DOOR AND BAGGAGE DOOR INSPECTIONS (CONTINUED)

REG. NO.	N6815T
MAKE	CESSNA
MODEL	414AW
S/N	414A-0645

MIDWEST AVTECH INC.
I.V. REGIONAL AIRPORT
4241 ED URBAN DR.
PERU, IL 61354

DATE	06/28/07
FHM	845.5
T.T.	4046.2
SMOH	

(CONTINUED) REPLACED RIVETS HOLDING L/H TAILPIPE BRACKET - CLEANED AND REPACKED WHEEL BEARINGS - CHECKED LANDING GEAR OPERATION AND RIGGING - REPLACED ELT BATTERY (P/N 00-60-62), SYSTEM OPS CHECKS GOOD IAW FAR 91.207, NEXT BATTERY CHANGE DUE 06/09
HEATER HOURMETER = 789.6

I CERTIFY THAT THIS AIRCRAFT HAS BEEN INSPECTED IAW FAR 43 APPENDIX D FOR AN ANNUAL INSPECTION AND WAS FOUND TO BE IN AN AIRWORTHY CONDITION

WILLIAM E. MIGLIORINI

William E. Migliorini

A&P 360625846 IA

Date	Total Time In Service	Recording Meter Time
3/24/08	4089.7	889.0



RAM Aircraft, Limited Partnership • Waco Regional Airport

CESSNA S/N 414A0645 N6815T


On above referenced aircraft removed, bench checked, adjusted and re-installed left and right prop governors with new gaskets. Removed, cleaned and re-installed right oil temperature sensor. Run-up for leak check and proper operation satisfactory. Aircraft is approved for return for return to service for maintenance performed. Pertinent details are on file under Project No. 4052.

Stephen Wade

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

SUB-TOTAL this page

TOTAL—Carry forward to next page

DATE	TOTAL TIME IN SERVICE	TACH OR RECORDING METER TIME	DESCRIPTION OF WORK PERFORMED— SIGNATURE & CERTIFICATE NO. OF PERSON PERFORMING WORK
			TOTAL brought forward from previous page
			 <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 and has been determined to be in an airworthy condition.</p> <p>DATE <u>07/01/2008</u> TACH <u>945.7</u> AIRCRAFT TT <u>4146.4</u> WORK ORDER #<u>2521</u> SIGNED <u>[Signature]</u> AIR IMPRESSIONS, INC REPAIR STATION # AK6R541N</p>



AIR IMPRESSIONS, INC.
PROFESSIONAL AIRCRAFT SERVICE

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

Aircraft TT: 4170.6
Hour Meter: 969.9
Date: 08/22/2008

Cessna S/N 414A-0645 N6815T

On above referenced aircraft, replaced seal in air conditioner hydraulic motor. Replaced "O" ring for air conditioner compartment pressure relief valve. Adjusted entry doorsteps. Performed top overhaul on left engine. (See engine entry.) C/W A.D. 2000-01-16 per paragraph (b) visual inspection of entire exhaust system. (Next due at 1019.9 Aircraft H.M.) Installed new prop sync bulb. Aircraft is approved for return to service for maintenance performed. Pertinent details are on file under work order 2560.

[Signature]
Air Impressions, Inc.
CRS# AK6R541N

SUB-TOTAL this page

TOTAL—Carry forward to next page

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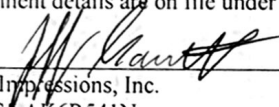


7929 Karl May Dr.
Waco, Texas 76708
CRS No. AK6R541N

Aircraft TT: 4240.7
Hour Meter: 1040.0
Date: 04/01/2009

Cessna S/N 414A-0645 N6815T

On above referenced aircraft, replaced bulb for left 3-in-1 gauge post light. Patched hole at left outboard engine nacelle and adjusted clamp as to not chafe. Adjusted all exhaust slip joint hardware to specs. Replace broken bulkhead screw at right prop and re-saftied. Replaced several damage rivets in right exhaust trail. Installed new ground strap at left elevator outboard attachment. C/W A.D 2004-25-16(R1) per inspection of heater fuel regulator. (Next due at 1140.0 or 04/2010.) Installed new main hydraulic system filters. (Next due at 1440.0 HM or 4640.7 Aircraft TT. Removed and re-installed oxygen and nitrogen bottle after hydrostatic testing. Operational tested both systems and serviced to specs. (Bottles next due testing on 03/2014.) Installed new left engine CHT probe. Installed new right engine EGT probe. Installed all new brake pad linings and serviced both master cylinders. C/W A.D. 2000-01-16 per paragraph (b) visual inspection. (Next due at 1090.0 H.M. or 30 days whichever is later.) Flushed left radiator with RAM supplied flush cart. Serviced coolant system to RAM specs. Washed and detailed aircraft. Operational ground run-up checked satisfactory is approved for return to service for maintenance performed. Pertinent details are on file under work order 2675.


Air Impressions, Inc.
CRS# AK6R541N

N6815T

09-10-2009 Hobbs: 1049.9 ACTT: 4250.6

Jacked aircraft, Removed main gear wheels for inspection of wheel bearings, all checked satisfactory this date. Repacked as needed. Checked brake linings and brake discs, all within limits. Serviced brakes with 5606 hydraulic fluid. Serviced aircraft battery. Tested ELT battery in accordance with FAR 91.207 (D). Replaced ELT Battery, next due: Sept 2011. Removed all panels for inspection, lubricated all pulleys, rod ends, and cables. Reinstalled inspection panels. Performed landing gear retraction tests, all tests satisfactory this date. Checked all nav lights, strobes, landing and taxi lights for functional check, all satisfactory this date. Inspected air intake filters this date. Both filters checked good this date. Next due Hobbs: 1245.7. Heater Hobbs: 861.7. Inspected heater as required. Next due for inspection 1061.7 of time in service or twelve calendar months. AD 84-26-02 Paper induction filters: PCW on 7-08, Hobbs Time: 945.7 next due for replacement: 1245.7. AD 90-02-13 Main landing gear: N/a by serial number of aircraft. AD 95-09-13 Fuel float valve: PCW on 7-08 hobbs time: 945.7, next due for inspection hobbs time: 1318.4 or ACTT: 4519.1. AD 97-26-16 Engine mount beams: PCW on 7-08 at hobbs: 945.7. Next due for inspection at ACTT: 10,176.2. AD 2000-01-06 Detect and correct cracks and corrosion in the exhaust system: Inspected as per paragraph: B, C, and D of AD.

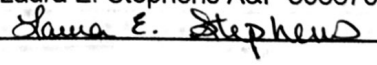
AD 2004-21-05, 2004-25-16, 2004-25-16R1: Janitrol Heaters: Inspected heater and regulator for leaks, none found this date. Inspected for defects and leaks. None found this date. Next due for inspection at 1061.7 or twelve calendar months, AD 2005-12-13 Prevent Wing spar cap failure caused by undetected fatigue cracks: PCW on 7-08 at hobbs: 945.7 next due for inspection at 15,000 TIS. I certify that I have inspected this

airframe per 100 hour inspection.

Justin Williams A&P 3024563

Hobbs:
Date 09/10/2009 Tach 1049.9 TT 4250.6
I certify that this Airframe has been inspected in accordance with a Annual inspection and was determined to be in an airworthy condition.

Laura E. Stephens A&P 3066709 IA



Select Avionics, LLC. 1500 E. Industrial Blvd Ste 121 McKinney, TX 75069 5ECR951Y
LOG ID# 283 05-May-2010 WO# 1518/4 SA 20 HOBBS 1068.5
N6815T S/N 414A0645 CESSNA 414A

Pg 1 / 2

**** ITEM # 1518-1 FARS ****

DISCREPANCY: Perform FARS.

ACTION: The Altimeter and Static system test required by 14 CFR Part 91.411 have been performed and were found to comply with FAR Part 43, appendix E. Altimeter was tested to 30,000 feet. Altimeter: United 5934PAD-1 and United 5934PA-3

The Transponder system tests required by 14 CFR 91.413 have been performed and were found to comply with FAR Part 43, appendix F. Transponder: Garmin GTX-327 S/N 83715871 and Garmin GTX 327 S/N 837115894

**** ITEM # 1518-2 MFD ****

DISCREPANCY: MFD inop.

Model: EX500 Part#: 700-00007-004 Serial#: 20122335

ACTION: Removed EX500 P/N 700-00007-004 S/N 20122335 and installed factory exchange unit S/N 21379095. Function check normal.

**** ITEM # 1518-3 GPS 1 ****

DISCREPANCY: GPS low battery.

Model: GNS-530 Part#: 011-00550-10 Serial#: 78409915

ACTION: Installed new battery in GNS-530 P/N 011-00550-10 S/N 78409915. Reconfigured and set up. Function check normal.

**** ITEM # 1518-4 GPS 2 ****

DISCREPANCY: GPS 2 battery low.

Select Avionics, LLC. 1500 E. Industrial Blvd Ste 121 McKinney, TX 75069 5ECR951Y
LOG ID# 283 05-May-2010 WO# 1518/4 SA 20 HOBBS 1068.5
N6815T S/N 414A0645 CESSNA 414A

Pg 2 / 2

Model: GNS-530 Part#: 011-00550-10 Serial#: 78409532

ACTION: Installed new battery in GNS-530 P/N 011-00550-10 S/N 78409915. Reconfigured and set up. Function check normal.

Jerry Huntley 5/5/10
3267153 Jerry Huntley Date

Select Avionics LLC

certified the altimeter system and altitude reporting equipment in accordance with the inspection required by FAR 91.411 & FAR 43 Appendix E Sub-paragraph (b).

Altimeter/Encoder Model 5934PAD-1 s/n V5116
Tested to 35,000 ft. Date 4/22/10
Altimeter/Encoder Model 5934PA-3 s/n 391176
Tested to 35,000 ft. Date 4/22/10
Altimeter/Encoder Model --- s/n ---
Tested to --- ft. Date ---
Altimeter/Encoder Model --- s/n ---
Tested to --- ft. Date ---

N # 6815T s/n 414A0645 Time 1068.5

SELECT AVIONICS McKinney, Texas 75069

FAA # 5ECR951Y *Jerry Huntley* 4/22/10
Signed Date

SA 08

I certify that this aircraft has been inspected in accordance with FAR 91.413 and Appendix F of FAR 43 inspection and was determined to be in airworthy condition.

Transponder #1 Model GTX 327 s/n 83715871
Transponder #2 Model GTX 327 s/n 83715894
N # 6815T s/n 414A0645 Time 1068.5

SELECT AVIONICS McKinney, Texas 75069

FAA # 5ECR951Y *Jerry Huntley* 4/22/10
Signed Date

SA 09

I certify that the static and integration inspection required by FAR 43 Appendix E Sub-Paragraph (a) & (c) have been performed in accordance with FAR 91.411

N # 6815T s/n 414A0645 Time 1068.5

SELECT AVIONICS McKinney, Texas 75069

FAA # 5ECR951Y *Jerry Huntley* 4/22/10
Signed Date

SA 10

TOTAL—Carry forward to next page

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

MAKE Cessna
MODEL 414AW
S/N 414A0645
REG NO N6815T
WORK ORDER
4853-04-2010

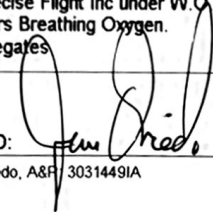
DFW Aero Mechanix Inc.
16321 Addison Rd Ste 150
Addison, Texas 75001
Phone 972-250-2403

DATE 4/8/2010
A/C TSN 4278 5
HOBBES 1062 3

Airframe Entries

Installed 2 new P/N 8022 micro switches in left landing light assembly.
Installed Overhauled Pilot Directional Gyro. P/N 52D137-1332, S/N I-W7304B. P/O#11869, W/O#18133. DFW Instrument Corp.
Functional Tested unit after install.
Checked calibration of L/H & R/H engine fuel pressures in accordance with TCM SID 97-3E
Pulse Light Control Box Repaired by Precise Flight Inc under W.O. 0033407-IN
Serviced oxygen to 1850 psi with Aviators Breathing Oxygen.
Flushed & lubed L/H & R/H engine wastegates

DATE: 4/8/2010

SIGNED: 
Juan Oviedo, A&P 30314491A

Work Order: 4853-04-2010

Printed by EBis 3 (datcomedia.com)

MAKE Cessna
MODEL 414AW
S/N 414A0645
REG NO N6815T
WORK ORDER
4922-06-2010

DFW Aero Mechanix Inc.
16321 Addison Rd Ste 150
Addison, Texas 75001
Phone 972-250-2403

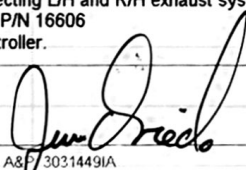
1 of 1

DATE 6/24/2010
A/C TSN 4309 8
HOBBES 1093 6

Airframe Entries

C/W AD 2000-01-16 part B by visually inspecting L/H and R/H exhaust system.
Replaced right winglet static wick with new P/N 16606
Flushed and lubed right waist gate and controller.

DATE: 6/24/2010

SIGNED: 
Juan Oviedo, A&P 30314491A

Work Order: 4922-06-2010

Printed by EBis 3 (datcomedia.com)

MAKE Cessna
MODEL 414AW
S/N 414A0645
REG NO N6815T
WORK ORDER
4955-07-2010

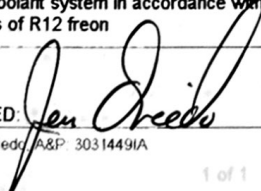
DFW Aero Mechanix Inc.
16321 Addison Rd Ste 150
Addison, Texas 75001
Phone 972-250-2403

DATE 8/31/2010
A/C TSN 4317 1
HOBBES 1100 9

Airframe Entries

Installed overhauled L/H engine waste gate P/N 1768-1 S/N KIR0102
Flushed & serviced L/H & R/H engine coolant system in accordance with Ram Aircraft service instructions
Serviced air-condition system with 1 lbs of R12 freon

DATE: 8/31/2010

SIGNED: 
Juan Oviedo, A&P 30314491A

Work Order: 4955-07-2010

Printed by EBis 3 (datcomedia.com)

1 of 1

SUB-TOTAL this page

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DATE	Date	Hobbs	ACTT	DESCRIPTION OF WORK PERFORMED
	2/1/2011	1120.7	4323.9	

DRK

1. Airworthiness Directives accomplished this inspection:

- a. AD 2004-21-05 Prevent combustion by-products (carbon-monoxide exhaust) and fuel leakage from the combustion heaters dated 19 November 2004 completed part f11 and f111 heater decay test and combustion air pressure switch test; heater passed the decay test. Installed new air pressure switch P/N 94E42-3. Test due again in 100 hours time in service Heater Hobbs 993.0 or 24 calendar months 31 January 2013.
- b. AD 2004-25-16R1 part e1 Heater Fuel Regulator test and inspection due. Completed visual inspection of the valve as outlined in Kelly Aerospace Systems Service Bulletin A-107A and installed date label onto the regulator. Next time due 31 January 2012 or 1220.7 Aircraft Hobbs.
- c. AD 2000-01-16 Detect and correct cracks and corrosion in the exhaust system dated 15 February 2000; exhaust parts B, C, and E. Complete part B, Visually inspect the exhaust system, Complete part C, Remove the tailpipes and visually inspect for any crack, corrosion, holes, or distortion; reinstalled tail pipes. Complete part E, Inspect and pressure test the exhaust system; part B due again at 1170.7 Hobbs Time or 03 March 2011, part C due again 28 February 2012, part E due 28 February 2012.

2. 12-month items accomplished this inspection:

Page 2 of 7

- a. Installed new Pilots Operating Handbook P/N D1594-2-13PH. Removed weight and balance data along with the supplements section from the out dated Pilot's Operating Handbook and installed them in the new Cessna manual and placed the manual in the aircraft.
 - b. RAM 12 month coolant system flush Was last completed 08/31/2010 Hobbs 1100.9 will be due again 08/2011 or Hobbs 1350.9.
 - c. Completed 14 CFR 91.207 part (d)(1,2,3,4) ELT inspection no discrepancies noted at this time; reinstalled ELT battery expiration date of Sept 2011.
- 3. Parts new, overhauled, serviceable, installed this inspection:**
- a. Serviced left engine coolant tank with a mixture of 60/40 DEXCOOL/water.
 - b. Right engine installed new oil temp probe P/N MS28034-3 S/N 72349.
 - c. Disassembled right wheel assembly cleaned and inspected inter wheel half and tie bolts reassembled wheel with new outer wheel half Lot No. 1649476 P/N 162-01700.
 - d. Installed 8 new bolts right brake caliper P/N 103-11800.
 - e. Replaced both felt seals, P/N 154-01300, on nose wheel bearings.
 - f. Installed 2 new nose wheel bearing races P/N LM29710.
 - g. Installed new wing boot deice pressure dump check valves P/N 340600-1 on both right and left engines.
 - h. Removed right elevator outboard broken static wick and installed new static wick P/N D/G 16606.
 - h. Installed new shimmy dampener mounting bolt P/N AN173-13A.

Page 3 of 7

- i. Removed broken RH cabin pressure air heat control and installed new control rigged control as outlined in the Cessna service manual.
 - j. Removed complete right engine exhaust rear assembly and installed new No. 6 cylinder section P/N A9910295-13-1 from Aerospace Welding FAA Repair Station No. UWDR792L.
 - k. Installed new crew shoulder belt lock bushings P/N S2237-3.
- 4. Repairs, adjustments, special inspection and service items accomplished this inspection:**
- a. Left engine No. 2 cylinder outboard and inboard coolant bleed port bolt threads stripped. Installed two key-retained screw thread insert P/N MS51831-203.
 - b. Installed new right-side EGT probe P/N 86255 and calibrated both the right-side and left-side EGT. Installed fuel pressure testing equipment, engine fuel pressures below specification; adjusted the high pressure on both engines as out lined in TCM SID97-3E. EGT temperatures are now in line with specifications.
 - c. Repaired flap handle detents with file.
 - d. Removed co-pilot's broken armrest hinge and fabricated new hinge from stock MS20001-5. Drilled and countersunk attaching holes.
 - e. Installed new lock washer and tightened left engine alternator capacitor.
 - f. Installed new main gear tires P/N 650C81-5 Left S/N 01682087 Right S/N 01682032.
 - g. Removed inboard exhaust pipe risers, removed the heat shield and drilled out rivets fabricated new parts and replaced burned through parts at cylinders 4 and 2.

h. Removed left engine left and right exhaust pipe risers and the heat shields; found risers cracking and burned through in several areas of both of the heat shields. Fabricated repair parts for the burned through parts and repair doublers for the cracked areas and installed.

i. Adjusted the right wing landing light assembly retracted position switch plunger; installed in the wing and ramp tested satisfactory at this time.

j. Cleaned compass lamp socket and reinstalled the lamp. Lamp tests satisfactory at this time.

k. Secured right engine water temperature probe wiring so that it will not chafe.

l. Cleaned right wing Deice boot adhesive from leading edge and boot; attached boot to leading edge wing using 1300L, then edge sealed.

m. Cleaned off pilot windshield old and loose edge sealant, cleaned and taped off windshield; applied new sealant to window.

n. Stop drilled cracks in right engine heat shield box both upper left and right corners around tail pipe with No. 30 bit.

o. Right outboard flap; fabricated surface patch and installed, top coat of paint to match.

p. Removed right wing doubler panel outboard of gear door 4 loose rivets cleaned and treated minor surface corrosion and top coated paint to match.

q. Left elevator tube has a scratch and dented in it just before it passes into the torque arm; burnished out the scratch, this scratch was only in the cad plating and no repair is required. NDT inspection Type I Method C Level 3 Form D no relevant indication noted at this time. Prepared and painted the blended area.

r. Vacuumed bird nest debris from horizontal stabilizer.

s. Removed battery and cleaned battery box acid contaminants with baking soda.

t. Removed right nose baggage door hold open arm, arm is bent and the attachment bracket is broken; straightened the bends out so the slide rod would work. Removed the stay to baggage ceiling attachment bracket straighten and fabricated doublers; repaired the broken off end and reinstalled repaired parts.

u. Installed nonmagnetic screws on access panel around flux gate.

v. Removed rudder lower attachment nut and installed additional washer to achieve proper spacing installed new cotter pin.

w. Left elevator ground wire routed improper this was corrected at the elevator repair.

x. Removed both elevators, drilled out rivets and removed the static wicks bases. Stopped drilled cracks and fabricated and installed patch repairs as outlined in the Cessna service manual for this aircraft under section 16 Structural Repairs page 16-3 elevator paragraph a. 2. Completed static balance of the elevators as outlined in section 16 page 16-12 through 16-18. LH elevator was out of balance added weight to bring it into limits. Now LH is under balanced to .138 inch-pounds, and the RH is under balanced to .593 inch-pounds.

y. Installed bonding strap on right elevator trim tab.

z. Applied new Velcro tape left wing locker upholstery where needed.

aa. Tightened the left engine vacuum pump elbow lock nut.

bb. Secured the left wing deice-boot valve wiring with ty raps.

cc. Installed safety washer on left propeller governor control reinstalled nut and bolt.

dd. Installed bolt with large area safety washer on outboard side of right engine throttle control rod end.

ee. Secured the cox with ty rap under cabin floor, aft of cabin door.

ff. Vacuumed lint from the air conditioning condenser and evaporator coils.

gg. Secured air conditioner temp probes behind pilot seat with epoxy.

hh. New Velcro strips applied to the cabin speaker grills and the two speaker housing assemblies. Reattached both speaker grills to the cabin speaker housing.

ii. Fabricated a doubler plate out of aluminum, drilled, and painted; installed flight phone bracket on partition with the doubler plate.

jj. Secured the aft mounting stud on the arm rest under emergency exit door and reinstalled arm rest.

kk. Secured the wiring in pilot and copilot seat pedestal and reinstalled cover plates.

ll. Tightened all 4 passenger Hydrolock attaching hardware and secured the forks on all Hydrolock.

mm. Adjusted copilot's seat sheet metal rap around so that it no longer interfered with the seat base.

nn. Re-attached Velcro to cabin floor carpet.

oo. Installed new O-rings, P/N MS29513-338 on left and right fuel caps.

pp. Fabricated 2 new "Coolant Drain" placards and installed them under the wings at the coolant drains. Corrected the right wing locker placard to read 200 instead of 120 lbs.

qq. Corrected the coolant mixture ratio placard under both the left and right cowling access

doors.

rr. Corrected aircraft Total Time this entry.

This article was repaired in accordance with current regulations of the Federal Aviation Administration and has been inspected in accordance with an **Annual Inspection** per 14 CFR 91.409(a)(1). It was determined to be in airworthy condition and is approved for return to service.

ORR

Pertinent details are on file at this repair station under work order #145.

Inspector Signature *Lucy J. Martin*
Executive Beechcraft Inc - MKC • FAA-certified repair station AKGR142C

Form No. MR-002 (Rev 08a, Apr 07)

N# 6815T

Date 3/8/11

Kings Avionics, Inc.

Station #TF2R185L

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

Signature *[Signature]*

Repairman # 2270490

Hobbs/Tac 1127.6

W.O.# 68529

Action: *RetR Skywatch 497 and EX500 and sent to factory for repair. RetR ART 161A for repair. Performed pitot/static leak test. All ground tests ok.*

KA Form 012

SUB-TOTAL this page

TOTAL—Carry forward to next page

DATE



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 04/04/2011 TACH 1130.1

AIRCRAFT TT 4330.8

WORK ORDER #3059

SIGNED [Signature]

AIR IMPRESSIONS, INC
REPAIR STATION # AK6R541N

TOMLINSON AVIONICS, INC. 619C HANGAR ROW PINE BLUFF, AR 71601 YN1R644K
LOG ID# 382 31-May-2011
N6815T S/N 414A0645 CESSNA 414A

REMOVED A GARMIN GMA340 AUDIO PANEL.

INSTALLED A PS ENGINEERING PMA8000B AUDIO PANEL.
THE PMA8000B IS AN EXACT REPLACE FOR THE GMA340.
SAME RACK AND PLUGS. REPLACED AS A MINOR ALTERATION.
WEIGHT AND BALANCE NOT EFFECTED.

REMOVED TWO GARMIN GNS530'S, AND TWO GA56 GPS ANTENNAS,
SENT THE GNS530'S TO GARMIN FOR WAAS UPGRADE.

INSTALLED TWO GARMIN GNS530W'S, AND TWO GA35 GPS WAAS
ANTENNAS PER AML STC #SA01933LA-D & SA01695SE-A, ALSO
INSTALLED AN AVIDYNE MLB700 NEXRAD WX AND RADIO RECEIVER,
WITH A 420-ANTS-TD ANTENNA.

WORK DONE PER MANUFACTURER INSTALLATION MANUALS,
AC43.13-1B, AC43.13-2B, AND 8110-3 DER APPROVAL, DRAWING #
N6815T-051711-1 REV N/C, 05/17/11 ON THE MLB700 ANTENNA.

WORK DONE AS A MINOR ALTERATION PER REMOVE AND REPLACE
FOR THE GNS530'S.

THE EX500 MFD WAS REPLACED WITH AN OVERHAULED EXCHANGE UNIT
FROM AVIDYNE.

[Signature] 5-31-11
Signed Date

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MAINTENANCE RECORD

Date: June 14, 2011	Page 1 of 2 Pages	Reg. No.:	N6815T
Aircraft: Cessna 414A	Serial#: 414A0645	HM:	1167.0

The below listed items were accomplished in accordance with Cessna 414A Aircraft Maintenance Manual and other approved or acceptable data as applicable. Work order discrepancy numbers are shown in brackets [], followed, in bold, directly by AD notes and SB's.

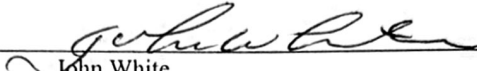
Work Order 041100671:

[001] Removed left brake master cylinder, cleaned, inspected and installed new seal p/n 095-02600, new o-ring p/n M83461/1-112 and reinstalled cylinder. Serviced and bleed brake. Op check good.

I certify that the above listed items have been completed, and with regard to the above items, that this **AIRCRAFT** has been approved for return to service.

Signed _____

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


John White
Phone: (501) 375-3245, (800) 888-5387

CRS No. HBKR587E
FAX (501) 975-9596

5/11	1181.0	Replace Landing/Taxi Light PN 4997 Replace ground wire on left strobe light
5/11	1181.0	clw AD 2000-01-16 PARAGRAPH (b) due again 50 hrs or 30 days whichever is latter. WMA Call 3384041 JA
12/11	1187.6	changed Both left and Right Voltage Regulators 28V Part # 9910126-3
4/22/11	1187.6	Paralleled generator, engine run at all power settings and checked O.T. Deloyd Rankin A2P429642582

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

Hobbs: 1200.7
Date: 08/02/2011

Cessna S/N 414A-0645 N6815T

On above referenced aircraft, flushed left and right radiators with flush cart and Radi flush supplied by RAM Aircraft. Evacuated system and serviced both systems with a 50/50 mixture of Dex-cool and water. Installed P/N 1355-41 coolant tube on right engine system. Aircraft is approved for return to service for maintenance performed. Pertinent details are on file under work order 126.

[Signature]
Air Impressions, Inc.
CRS# AK6R541N

Log Book Entry N6815T - 8-8-11
Removed left attitude indicator P/N 4550 A
14367-006-6 S/N 27520 and replaced with
a O/H exch unit new S/N 1-3085E Ramp test
good per mm 86M027 11/10 Jerry Pennington

Tomlinson Avionics, Inc.
PH. 534-0588 9-C Hanger Row
Pine Bluff, Arkansas 71601
FAA Approved
Repair Station No. YN1R644K

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REFORMED—
ON PERFORMING WORK

~~Logbook Entry~~ N 6815T 9-26-11
 Removed def TAC 4975/N81535 and replaced
 with a warranty exchange unit new 3/n 86846
 unit tested good per 012-10800-001 Rev P 9/24/08
 Jerry Remington

Tomlinson Avionics, Inc.
 PH. 534-0588 619-C Hanger Row
 Pine Bluff, Arkansas 71601
 FAA Approved
 Repair Station No. YN1R644K

in conformity operation.	16. Appro	18. Date	alone does national regu s authority ac rtification. I n. installer mus
9/25/11	1233 HRS.	2000-01-16	inspected exhaust system TAW AD (PAR B) due again 50 HRS OR 30 DAYS Willard 3384041 IA
11/3/12	1295.3	2000-01-16	by inspection of exhaust system due again 50 HRS OR 30 days Willard 3384041 IA
11/24/12	1297.1		INSTAL new 611-244 # 60249 7545 Battery
2-4-2012	1297.1		Patented FIRE ON RIGHT MAIN LANDING gear. Willard 3384041 IA

Mountain Air Aviation

11750 Airport Way, Hangar B-12-C, Broomfield, Colorado 80021

Date: March 19, 2012

Acf. Reg.: N6815T


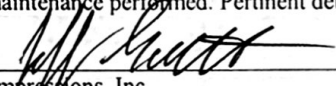
Tach: 1319.3

Maintenance Description

Replaced 1 each nose tire 600 X 6 8ply Michelin tire and 1 6 X 6 tube.
 Reassembled and installed.-----END-----

Mechanic's Signature: Dug Brown

Certificate Number: IA333224

DATE	TOTAL TIME IN SERVICE	TACH OR RECORDING METER TIME	DESCRIPTION OF WORK PERFORMED— SIGNATURE & CERTIFICATE NO. OF PERSON PERFORMING WORK
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 <p>AIR IMPRESSIONS, INC. PROFESSIONAL AIRCRAFT SERVICE</p> <p>7929 Karl May Dr. Waco, Texas 76708 CRS No. AK6R541N</p> <p style="text-align: right;">Hobbs: <u>1328.5</u> Date: <u>03/29/2012</u></p> <p style="text-align: center;"><u>Cessna S/N 414A-0645 N6815T</u></p> <p>On above referenced aircraft, installed new left engine radiator P/N 652017 S/N K10-9073-7. (See 8130-3 form.) Removed three coolant lines at thermostat housing and radiator and sent to RAM for repair. (See 8130-3.) Re-installed coolant lines after repair and serviced system with 50/50 mixture of dexcool coolant and distilled water per RAM servicing requirements. Aircraft ground run-up and leak tested satisfactory. Aircraft is approved for return to service for maintenance performed. Pertinent details are on file under work order 3309.</p> <p> _____ Air Impressions, Inc. CRS# AK6R541N</p>			
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DATE	TOTAL TIME IN SERVICE	TACH OR RECORDING METER TIME	DESCRIPTION OF WORK PERFORMED— SIGNATURE & CERTIFICATE NO. OF PERSON PERFORMING WORK
		870-534-0588	<p style="text-align: center;">TOMLINSON AVIONICS INC. 619 C HANGAR ROW PINE BLUFF, AR 71601</p> <p style="text-align: right;">CERTIFIED REPAIR STATION #YN1R644K</p> <p>I CERTIFY THAT THE ALTIMETER, ENCODING SYSTEM AND STATIC SYSTEM TEST REQUIRED BY FAR 91.411 HAVE BEEN PERFORMED THIS DATE. THE ALTIMETER S/N <u>V5716</u> WAS TESTED TO <u>30K</u> FT. ON <u>6-7-12</u></p> <p>SIGNATURE <u>Jerry Pennington</u> DATE <u>6-7-12</u></p> <p>I CERTIFY THAT THE TRANSPONDER TEST REQUIRED BY FAR 91.413 HAS BEEN PERFORMED THIS DATE AND FOUND TO COMPLY. TRANSPONDER <u>#7X329</u> S/N <u>83715894</u> DATE <u>6-7-12</u> MAKE & MODEL</p> <p>SIGNATURE <u>Jerry Pennington</u></p>

MAINTENANCE RECORD

Date: July 18, 2012	Page 1 of 1 Pages	Reg. No: N6815T
Aircraft: Cessna 414A	Serial #: 414A0645	Total Time / HM: ----- / 1398.8

The below listed items were accomplished in accordance with the Cessna 414A Aircraft Maintenance Manual and other approved or acceptable data as applicable.

Work Order 041202316

- [001] Installed overhauled R/H alternator p/n 649304RX. s/n A7070160 (overhauled by Accessories Inc. TM2R192L on w/o 70176R) and removed s/n 7101587.
- [005] AD 2000-01-016 (effective 02/15/2000) Exhaust System – Paragraph (b) complied with by visual inspection. Compliance with paragraph (b) due at intervals not to exceed 50 hours TIS or 30 calendar days, whichever occurs later. Next due at 1448.8 aircraft (HM) hours or August 18, 2012, whichever occurs later.

I certify that the above listed items have been completed, and with regard to the above items, that this aircraft has been approved for return to service.

Signed
Central Flying Service, Inc.
1501 Bond Street, Little Rock, AR 7

[Signature]

Serg Berad Entry N6815T 9-21-12
Replaced EX500 with a semi-annual each unit new 20116335 unit tested good after replacing mating plug
P/N 150-0010000 + 030-0018100 per mm 690-00125-004
Per 03
Jerry Pennington

Tomlinson Avionics, Inc.
PH. 534-0588 619-C Hanger Row
Pine Bluff, Arkansas 71601
FAA Approved
Repair Station No. YN1R644K

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DATE	TOTAL TIME IN SERVICE	TACH OR RECORDING METER TIME	DESCRIPTION OF WORK PERFORMED— SIGNATURE & CERTIFICATE NO. OF PERSON PERFORMING WORK
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9-13	1447		C/W AD 2000-01-16 by inspection of exhaust system due again in 50 hrs or 30 days Willard Hale 3384041AA

*Log Book Entry, N6815T 10-10-12
 Demand #530A5/1-3085f and shipped out for repair Rec'd repaired unit back and reinstalled in A/C ramp tested good
 Jerry Pennington*

Tomlinson Avionics, Inc.
PH. 870-534-0588 619-C Hanger Row
Pine Bluff, Arkansas 71601
FAA Approved
Repair Station No. YN1R644K

N 6815T

Hobbs:1489.2



5410 OPERATIONS ROAD, MONROE, LA 71203
 (318) 387-0222

DATE 12-18-12

Removed nose tire and installed a new Goodyear flight custom III P/n 606C66-8 s/n 90790038 and installed a new tube G/15 6.00-6 TR 20. Reinstalled wheel assy IAW Cessna M/M.

The aircraft, airframe, aircraft engine, propeller or appliance identified above was repaired and inspected in accordance with current regulations of the FAA, manufacturers maintenance manual and is approved for return to service.
 JPS AVIATION, LLC, FAA APPROVED REPAIR STATION # 3MIR878B
 MONROE REGIONAL AIRPORT, MONROE, LOUISIANA

SIGNED Thomas Lits WO# 13106

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12/27	1497		C/W AD 2000-01-16 by inspection of exhaust system due again in 50 hrs or 30 days. Will call 3384041 JA



AIR IMPRESSIONS, INC.
PROFESSIONAL AIRCRAFT SERVICE

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

Aircraft TT: 4716.3
Hobbs: 1515.5
Date: 01/31/2013

Cessna S/N 414A-0645 N6815T

On above referenced aircraft, installed overhauled fuel harness inside right wing P/N 9910232-6 S/N TAI4469. (See 8130-3.0) Calibrated right fuel quantity system. Installed overhauled right fuel selector valve P/N 9910201-1 S/N 2427. (See 8130-3.) Installed new right radiator P/N 652017 S/N J12-10725-2. (See 8130-3.) Serviced system with 50/50 mixture of Dexcool coolant and distilled water per RAM Servicing Instructions. Installed new right engine inboard exhaust riser assembly P/N A9910295-131. Aircraft ground run-up and leak tested satisfactory. Aircraft is approved for return to service for maintenance performed. Pertinent details are on file under work order 3447.

J.M. Grant
Air Impressions, Inc.
CRS# AK6R541N

2/4/13			<p>N6815T Log Book Entry 2-6-13 Removed Defective HSI P/N 520131-1332 S/N W1304B and replaced with an O/N esch unit new S/N W5589B and unit tested good per mm 685304 2 12/1/96 <i>Jerry Emerson</i></p> <p>Tomilson Avionics, Inc. PH. 870-534-0588 619-C Hanger Row Pine Bluff, Arkansas 71601 FAA Approved Repair Station No. YN1R644K</p>
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4-1-13	1555.		C/W AD 2001-01-16 by VISUAL
inspection of exhaust system for cracks due			
again 50 hrs or 30 days W/ W/ Albell 3384041A			



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

Aircraft TT: 4772.8
Hour Meter: 1572.0
Date: 07/02/2013
Heater HM: 43.5

Cessna S/N 414A-0645 N6815T

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 414A Service Manual. Inspected wheels, tires, and brakes. Inspected fuel, hydraulic lines and fittings. Installed new tail nav/strobe assembly P/N A500A-V-28. Installed customer supplied right alternator sensor P/N 9910094-4. Purged oil pressure lines to left and right gauges and filled with fresh oil. Replaced several nutplates at lower oil access panels below engines. Installed new lamp for surface de-ice light. Installed new left prop de-ice brushes P/N B40012. (See 8130-3 forms.) Installed overhauled left fuel selector valve P/N 9910201-1 S/N 351. (See 8130-3.) Serviced oxygen system. Cleaned and lubricated engine control cables. Installed new lamp for left pedestal fuel selector light. Re-glued carpet in wing baggage lockers. Install all new brake pad linings. Cleaned and treated exhaust trails and wheel well panel areas. Cleaned and treated flap wells as needed. Re-sealed left wing upper fuel bay panel. Replaced leaking rivets at right wing forward fuel drain. Re-sealed nose shimmy dampner and serviced. Installed new fuel filler port placards. Installed new lens cover for left engine nose cowling. Cleaned and treated tail cone areas as needed. C/W A.D. 2004-25-16 (R1) per inspection of heater fuel regulator shut-off valve. (Due each 100 hours.) C/W A.D. 2000-01-16 per paragraphs (b), (c), (d) and (e) inspections. (Paragraph (b) next compliance due in 50 flight hours or 30 days whichever is later.) Installed new left turbo wye P/N 1967-1 S/N 1S994-0001. (See tag.) Installed new right prop spinner bulkhead P/N E-6178. (See 8130-3.) Re-installed left and right engines after repair by RAM Aircraft for cracked crankcase (left) and metal contamination (right). (See engine logs.) Installed overhauled left and right turbochargers P/N's 2059-1 left S/N GJL00202 and right S/N ZEN39402. (See 8130-3 forms.) Re-installed left and right propellers after de-sludge and re-sealed by Byam Propeller Service, left S/N 901903 and right S/N 902167. (See 8130-3 forms.) Re-installed left and right wastegates and turbo controllers after disassembled and cleaning by RAM Aircraft. (See tags.) Installed new left and right engine oil coolers P/N 652018. (Supplied by RAM Aircraft.) Flushed all engine fluid carrying lines and hoses. Installed overhauled right engine hydraulic pump P/N 24194-LAA S/N 73031. (See 8130-3.) ELT unit tested per FAR 91.207 requirements. Installed new left engine outboard slip joint P/N 1001-3. Installed overhauled left alternator P/N 649304 S/N A102594. (See 8130-3.) A.D.'s researched through bi-weekly 2013-13. See A.D. listing in log binder for current and future compliance times.) 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 3585.

Air Impressions, Inc.
CRS# AK6R541N

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