RAM™

AIRCRAFT

AIRFRAME MAINTENANCE RECORDS

Registration No. N414PH

Serial No. C414-0421

RAM™ AIRCRAFT

AIRFRAME MAINTENANCE RECORDS

Log No. 5

Aircraft Registration No. N414PH

Model C414AW

Serial No. C414-0421

Waco Regional Airport • P.O. Box 5219 • Waco, Texas 76708
254/752-8381 FAX 254-752-3307 1-800-445-9713

"LOGBOOK FORMAT REPRINTED WITH THE PERMISSION OF AEROTECH PUBLICATIONS, INC.
THE ADLOG (TM) SYSTEM, COPYRIGHT 1979."

Page No. _____

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

Southern Avionics & Communications, Inc.
CRS HW4R427M
Mobile Downtown Airport
2495-A Michigan Avenue / Mobile, AL 36615

N# 414PH WO# 88240 Date 7/27/09

Installed Air Gizmo Panel Dock and power/data cables for GPSMAP 696 portable carry on device.

D. Devilbiss
Technician / HW4R427M

Inspector / HW4R427M

Southern Avionics & Communications, Inc.
CRS HW4R427M
Mobile Downtown Airport
2495-A Michigan Avenue / Mobile, AL 36615

N# 414PH WO# 88278 Date 7/28/09

Installed Avionics Cooling Fan. Fan is located behind GPSMAP 696 Panel Dock.

D. Devilbiss
Technician / HW4R427M

Inspector / HW4R427M

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

Page No. _____

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

Southern Avionics & Communications, Inc.
CRS HW4R427M
Mobile Downtown Airport
2495-A Michigan Avenue / Mobile, AL 36615

N# 414PH WO# 88266 Date 7-28-2009

Repaired aircraft lighting using new slider switches 5 each p/n CM3535-1 and 1 2N3055 dimming transistor. Ramp tested lighting and verified proper operation. No change to weight and balance.

Jeff Haddan
Technician / HW4R427M

Inspector / HW4R427M

Southern Avionics & Communications, Inc.
CRS HW4R427M
Mobile Downtown Airport
2495-A Michigan Avenue / Mobile, AL 36615

N# 414PH WO# 88270 Date 08.03.2009

Removed faulty Edo/ARC 5000L-8/G-519B-1 Attitude Gyro
P/N: 1U284-001-1 S/N: 63198H.

Installed OHC Edo/ARC 5000L-8/G-519B-1 Attitude Gyro
P/N: 1U284-001-1 S/N: A20231K.

Performed AP to VG interface alignment per OEM requirements.

No change to Aircraft Weight & Balance required.

2514474
Technician / HW4R427M

2528188
Inspector / HW4R427M

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

Page No. _____

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

Southern Avionics & Communications, Inc.
CRS HW4R427M
Mobile Downtown Airport
2495-A Michigan Avenue / Mobile, AL 36615

N# N414PH WO# 89035 Date 11-23-09

Performed and complied with annual ELT inspection as required by FAR 91.207d.

Next annual inspection due by: November 2010
Replace Batteries by: December 2010

William Wimberly
Technician / HW4R427M

Inspector / HW4R427M

GULFCOAST AIRCRAFT SERVICE CENTER, INC
2495 MICHIGAN AVE
MOBILE, AL 36615
251-433-0831

I certify that this aircraft/engine/propeller was inspected INAW ANNUAL inspection and determined to be in airworthy condition.
T.T. 5512.5 TACH
T.S.O. HOBBS 4650.5

SIGNATURE John Ellington
CERTIFICATE # IA 2157980
DATE: 12-8-09

C/W AD NOTES: AD 2001-01-16 PAR B CDE EXHAUST, 84-26-02 L+R PAPER AIR FILTER REPLACED DUE TT 6012 HRS, 2004-21-05 PRESSURE DECAY DUE 12-8-2001, 2004-25-16 NO LEAKS DUE TT 5612.

REPAIRED WIRE ON LEFT OIL TEMP SENDER
REPLACED NUTS + TORQUED LEFT NOSE THRU BOLT
REPLACED ALL ENGINE CONTROLS WITH NEW
CLEANED OUT WINDSHIELD DEICE LINE
REPLACED ALL MAGNETO'S WITH NEW

SUBTOTALS brought forward to next page

Page No. _____

DATE	TOTAL TIME IN SERVICE	TOTAL TIME SINCE OVERHAUL	TACH OR RECORDING METER TIME	DESCRIPTION OF WORK PERFORMED— SIGNATURE & CERTIFICATE NO. OF PERSON PERFORMING WORK
				TOTALS brought forward from previous page
4/23/2010	Hm 4700.2			Replaced air Condition Condenser Blower Motor with overhauled unit P/N MB55B-1 Ser# 937 Serviced Freon with R12. Replaced left fuel flow Transmitter with new. John E Winger A+P 2157980
1-28-11	4821.4			Performed Annual Inspection Installed New Main Tires 6.50 x 10 8ply Installed New ELT Battery P.N. 00-60-62 & tested I/A/W FAR 91.207 par. (d). Installed Left & Right Vac. Filters B3-5-1 Removed O² bottle for Hydro stat. (see AFS work order) Complied w/ AD 2001-01-16 complete I certify This Aircraft has been inspected I/A/W Cessna 414 M.M. & Have determined it To be in airworthy Condition. Dan Sanford IA 3032129
				SUB-TOTALS this page
				TOTALS—Carry forward to next page

Page No. _____

DATE	TOTAL TIME IN SERVICE	TOTAL TIME SINCE OVERHAUL	TACH OR RECORDING METER TIME	DESCRIPTION OF WORK PERFORMED— SIGNATURE & CERTIFICATE NO. OF PERSON PERFORMING WORK
				TOTALS brought forward from previous page
10/28/09 HM 4627.4		Bled Brake System & Serviced Reservoir. John E Kimpel A+P 2157980		

Southern Avionics & Communications, Inc.
CRS HW4R427M
Mobile Downtown Airport
2495-A Michigan Avenue / Mobile, AL 36615

N# N414PH WO# 88314 Date 8/04/09

Updated the main software 2.09 to the latest version 6.04, also updated the gps software 2.11 to the latest version 3.03.

GNS-530 p/n: 011-00550-10 s/n: 78404554

Clyde B. Franklin
Technician / HW4R427M

Inspector / HW4R427M

9-30-10				Installed New battery Gill G246 Dan Sanford AP3032129 IA
				SUB-TOTALS this page
				TOTALS—Carry forward to next page

Page No. _____

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

LH
Aircraft Electromotive FAA CRS# TF4R542M
Tail Number N 414PH
I certify that the Altimeter, Encoding and static system test required
By FAR 91.411 has been performed this date
ALT S/N 2386 tested to 25,000 FT.
I certify that the transponder test required by FAR 91.413 has
Been performed and found to comply. KT76C
Make & Model
Signature [signature] Date 12-31-10

RH
Aircraft Electromotive FAA CRS# TF4R542M
Tail Number N 414PH
I certify that the Altimeter, Encoding and static system test required
By FAR 91.411 has been performed this date
ALT S/N 461171 tested to 25,000 FT.
I certify that the transponder test required by FAR 91.413 has
Been performed and found to comply. N/A
Make & Model
Signature [signature] Date 12-31-10

AURIC AVIONICS & INSTRUMENTS

FAA CRS # UAWR246L
6101 G. Bellanca Drive
Lakefront Airport
New Orleans, LA 70126
(504) 245-0072

01/31/2011
N414PH
Cessna 414A S/N 414A0421
Hobbs: 4823.0

Removed the existing defective Pilot's PTT Switch and installed a new PTT Switch P/N S1983-1. All ops tested nominal after repair.

[signature]
Victor Schilleci IV
Repairman 2455082
AuricAvionics@aol.com

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

Page No. _____

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

AURIC AVIONICS & INSTRUMENTS

FAA CRS # UAWR246L

6101 G. Bellanca Drive
Lakefront Airport
New Orleans, LA 70126
(504) 245-0072

03/14/2011
N414PH
Cessna 414A S/N 414A0421
Hobbs: 4849.7

Removed the existing GNS530 and had unit upgraded to a GNS530W P/N 011-01064-40 S/N 78404554. Removed the existing GA56 GPS Antenna and installed a new GA35 WAAS Antenna S/N 72015. Removed the existing RG58 coax for GPS antenna and replaced with RG400 coax. Submitted FAA Form 337 for WAAS upgrade and updated aircraft records. Placed new GNS530W AFMS in POH. All ops checked nominal after installation.

Victor Schilleci IV
Repairman 2455082
AuricAvionics@aol.com

12-7-11	4942.8			R&R all brake Linings & both brake discs
				Marker Jacks A&P 3221020 IA

AIRCRAFT INSPECTION & REPAIR
709 Warehouse Dr. Laurel MS 39440
Phone: 601-270-5507

DATE: 02-10-12 **N414PH** **AIRFRAME**
TACH: 4953.0 **TSN: 5815.0**

1. Tested ELT I/A/W FAR 91.207 (d).. Battery Dec. 2013
2. Repaired fuel leak at left inboard fuel cell
3. Repaired crack on left upper cowling

Performed annual inspection I/A/W Cessna 414 M.M. and FAR 43appendix D. See AD listing for AD compliance. I certify this engine has been inspected I/A/W an annual inspect and was determined to be in airworthy condition.

David Sanford IA 3032129

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

Page No. _____

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

MAA DBA DEAN AIRCRAFT SERVICE
2913 Highway 11 South – Meridian, MS 39307
Phone (601) 485-7304 - Fax (601) 485-7889

N414PH, Cessna 414A, SN 414A0421 March 29, 2012
Hobbs 4969.1 TAT 5831.1

Rigged aircraft flap system I/A/W Cessna 414 Service Manual Section 8-30. Replaced L/H cabin #1 AFT facing seat hydrolok with overhauled unit PN LL17500-08. Unit was overhauled by Hydro-Aire, Inc. Repair Station QD3R785L on W.O. # 1196212 dated March 14, 2012. I certify the above work was repaired and inspected in accordance with current FAR's and is approved for return to service. Pertinent details of the repair are on file at this agency under W.O. #929 (END)

Signature Leonard Dean
(Leonard Dean A&P 3114930)

N414PH 8-10-12 Hobbs 5028
Inspected Exhaust System IAW AD 2000-01-16.

Matthew Tally
Matthew Tally A&P 3221020 IA

AIRCRAFT INSPECTION & REPAIR
709 Warehouse Dr. Laurel MS 39440
Phone: 601-270-5507

DATE: 10-22-12 **N414PH** **ENGINE: LEFT**
TACH: 5053.0
1. Changed oil and filter serviced with AS W100 plus and installed CH48108-1 filter

All work performed in accordance with Cessna 414 M.M.. and current FARs. This aircraft is returned to service.

David Sanford
David Sanford IA 3032129

AIRCRAFT INSPECTION & REPAIR
709 Warehouse Dr. Laurel MS 39440
Phone: 601-270-5507

DATE: 10-22-12 **N414PH** **ENGINE: RIGHT**
TACH: 5053.0
1. Changed oil and filter serviced with AS W100 plus and installed CH48108-1 filter

All work performed in accordance with Cessna 414 M.M. and current FARs. This aircraft is returned to service.

David Sanford
David Sanford IA 3032129

SUB-TOTALS this page

TOTALS—Carry forward to next page

Page No. _____

DATE	TOTAL TIME IN SERVICE	TOTAL TIME SINCE OVERHAUL	TACH OR RECORDING METER TIME	DESCRIPTION OF WORK PERFORMED— SIGNATURE & CERTIFICATE NO. OF PERSON PERFORMING WORK
				TOTALS brought forward from previous page
				N414PH 1-25-13 Hobbs 5083.0 Inspected Exhaust system IAW AD 2000-01-16. No problems found. Matthew Tally Matthew Tally A&P 3221020 IA
				SUB-TOTALS this page
				TOTALS—Carry forward to next page

Page No. _____

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

Date	Total Time In Service		Recording Meter Time
3/1/13	5960.5		5098.5

RAM Aircraft, Limited Partnership • Waco Regional Airport

Cessna S/N 414A0421 N414PH

On above referenced aircraft, installed RAM overhauled engines L-217826-72K and R-516971 and new Hartzell PHC-C3YF-2UF propellers; left s/n EB7541B right s/n EB7644. See 337. Installed RAM/FAA/PMA 1719-3 synchrophase system. See 337. Installed Shadin Fuel Flow Indicating System per STC SA5796SW-D. Transducer installation per STC SE5726SW-D. Slick pressurized magnetos p/n 6320 installed per STC SE4651SW-D. See 337. Replaced left and right engine EGT probes and leads. Installed red silicone impregnated fiberglass baffle material on each engine. FAA-PMA replacement baffles. **C/W AD2000-01-16 by removal of the exhaust system from the slip joints aft. Installed the following exhaust system components:**

Left Engine	P/N	S/N		Replacement due
Wye	9910299-9	N/A	Overhauled	3-2025/8460.5
Left Elbow	A9910377-1I	22051	New	3-2025/8460.5
Elbow Clamp	2274-60	n/a	New	3-2025/8460.5
Right Elbow	A9910377-2	21782	New	3-2025/8460.5
Elbow Clamp	2274-60	n/a	New	3-2025/8460.5
Wastegate Elbow	HWS340414-95	327	New	3-2025/8460.5
Wastegate Clamp	2274-70	n/a	New	3-2025/8460.5
Wastegate Tailpipe	K9910299-13	214002	New	3-2025/8460.5
Overboard Tailpipe	HWS340414-1	570	New	3-2025/8460.5
Tailpipe clamp	2274-50	n/a	New	3-2025/8460.5
Left Riser assy.	K9910295-13	219116	New	N/A
Right Riser Assy.	K9910295-14	221870	New	N/A
Wastegate	470908-9012	JG0203	Overhauled	N/A
Turbocharger	2060-1	EJL1184	Overhauled	N/A
Slip Joint	1001-3	n/a	New	3-2025/8460.5

Right Engine	P/N	S/N		Replacement due
Wye	9910299-9	I1656-0009	Overhauled	3-2025/8460.5
Left Elbow	A9910377-1I	22053	New	3-2025/8460.5
Elbow Clamp	2274-60	n/a	New	3-2025/8460.5
Right Elbow	A9910377-2I	21781	New	3-2025/8460.5
Elbow Clamp	2274-60	n/a	New	3-2025/8460.5
Wastegate Elbow	HWS340414-95	329	New	3-2025/8460.5
Wastegate Clamp	2274-70	n/a	New	3-2025/8460.5
Wastegate Tailpipe	K9910299-14	206376	New	3-2025/8460.5
Overboard Tailpipe	HWS340414-2	577	New	3-2025/8460.5
Tailpipe clamp	2274-50	n/a	New	3-2025/8460.5
Left Riser assy.	K9910295-13	221825	New	N/A
Right Riser Assy.	K9910295-14	220671	New	N/A
Wastegate	470908-9013	CB0101	Overhauled	N/A
Turbocharger	2060-1	SJR0346R	Overhauled	N/A
Slip Joint	1001-3	n/a	New	3-2025/8460.5

C/W para (b) by visual inspection and found to be serviceable. Next visual inspection per para (b) due in 50 hours TIS or 30 calendar days, whichever occurs later. C/W para (c) by installation of new exhaust tailpipes. Next removal and visual inspection per para (c) due within 5 years. C/W para (d) by inspection of the outboard engine beams and canted bulkheads. Found airworthy at this time. Re-inspection per para (d) due each 500 hours TIS. C/W para (e) by visual inspection and pressure test of left and right exhaust systems. System checked satisfactory at this time. Re-inspection per para (e) due each 12 calendar months. Para (f) N/A per no multi-segment V-band clamps installed. C/W para (g) by installing new and/or overhauled exhaust system from the slip joints aft. Repetitive compliance due at 2,500 hours TIS or 12 years from date of installation, whichever occurs first. Compliance with para (g) due 3-2025 or aircraft total time of 8460.5 hours, whichever occurs first. AD2008-08-17 n/a per p/n of turbocharger installed. Installed new Aeroquip integral firesleeved fuel, oil and hydraulic hoses meeting TSO-C53A Type D and TSO-C75 Type III on each engine. C/W MEB00-9 per installation of p/n 2530-1 vent tube in crankcase breather. Repaired right naccel firewall by stop drilling crack and installing patch per Cessna service manual. Installed new prop de-ice brush block p/n B40189 on left and right engine. AD 96-12-22 N/A to oil filter adapter installed. C/W AD 84-26-02 per replacement of air filters. RAM Aircraft recommends air filters to be replaced every 300 hours or annual with mandatory log entry required. Installed new Hartzell ALV9610 alternators. See new empty weight and balance in POH. Installed vacuum pump cooling shroud on left and right engine vacuum pumps per STC SA3721SW-D. New empty weight and balance computed. Aircraft is approved for return to service for the work performed. Pertinent details on file under project no.6607.

Stephen Wade

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

TOTALS—Carry forward to next page

Page No. _____

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

Date	Total Time In Service		Recording Meter Time
03/01/13	5960.5		5098.5

RAM Aircraft, Limited Partnership • Waco Regional Airport

CESSNA S/N 414A0421 N414PHJ

Aircraft inspected aircraft and found in a condition for safe operation. Researched AD's thru Bi-weekly132-04. Pertinent details are on file under Project No. 6607. Annual inspection expired. Requested ferry permit.

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

I FIND THAT THE AIRCRAFT MEETS THE REQUIREMENTS FOR THE CERTIFICATION REQUESTED AND HAVE ISSUED A SPECIAL (Flight Permit) AIRWORTHINESS CERTIFICATE DATED 03/01/13. THE NEXT INSPECTION IS DUE N/A.

RANDAL W. SCHAEPER, DART742004SW

AIRCRAFT INSPECTION & REPAIR
709 Warehouse Dr. Laurel MS 39440
Phone: 601-270-5507

DATE: 03-04-2013 **N414PH** **AIRFRAME**
TACH: 5124.4 **TSN:**

1 Heater hr meter 1438.7
2 Repaired fuel leak at left inboard fuel cell
3. installed new main tires Goodyear 6.50-108ply

Performed annual inspection I/A/W Cessna 414 M.M. and FAR 43appendix D. See AD listing for AD compliance. I certify this aircraft has been inspected I/A/W an annual inspect and was determined to be in airworthy condition.

David Sanford IA 3032129

s page

TOTALS—Carry forward to next page

Page No. _____

TOTAL TIME	TOTAL TIME	TACH OR RECORDING	DESCRIPTION OF WORK PERFORMED— E & CERTIFICATE NO. OF PERSON PERFORMING WORK
			rward from previous page

AIRCRAFT INSPECTION & REPAIR
709 Warehouse Dr. Laurel MS 39440
Phone: 601-270-5507

DATE: 04-02-14 N414PH AIRFRAME
TACH: 5161.5 TSN: 5997.6

1 Complied with AD 2004-21.05 heater pressure decay test Heater hr meter 1442.5
2 Installed new brake line from master cylinder to firewall (left side)
3. installed new main tires Goodyear 6.50-108ply
4. Installed new evaporator blower p.n. JBS27-5
5 Complied with AD 95-09-13 by inspection of float valve

Performed annual inspection I/A/W Cessna 414 M.M. and FAR 43appendix D. ee AD listing for AD compliance. I certify this aircraft has been inspected I/A/W an nnual inspect and was determined to be in airworthy condition.

David Sanford IA 3032129

AIRCRAFT INSPECTION & REPAIR
709 Warehouse Dr. Laurel MS 39440
Phone: 601-270-5507

DATE: 03-20-15 N414PH AIRFRAME
TACH: 5246.0 TSN: 6082.1

1 Complied with AD 2000-01-16 para b and c
4. Installed new ELT battery and tested I/A/W FAR 91.209 d battery expires 8-17
5 Complied with AD 95-09-13 by inspection of float valve

Performed annual inspection I/A/W Cessna 414 M.M. and FAR 43appendix D. See AD listing for AD compliance. I certify this Aircraft has been inspected I/A/W a annual inspect and was determined to be in airworthy condition.

David Sanford IA 3032129

AIRCRAFT INSPECTION & REPAIR
709 Warehouse Dr. Laurel MS 39440
Phone: 601-270-5507

DATE: 03-14-16 N414PH AIRFRAME
TACH: 5279.7 TSN: 6115.8

1 Complied with AD 2000-01-16 para b and c
2. Tested ELT I/A/W FAR 91.209 d battery expires 8-17
3 Installed new battery Gill G246
4. Repaired left wing deice boot supply hose

Performed annual inspection I/A/W Cessna 414 M.M. and FAR 43appendix D. See AD listing for AD compliance. I certify this aircraft has been inspected I/A/W a annual inspect and was determined to be in airworthy condition.

David Sanford IA 3032129

AIR SERVICES, INC.
400 REGIONAL AIRPORT RD
CARROLLTON, GA. 30117
FAA Certified Repair Station Z4AR547Y

PHO: (770) 836-9002
FAX (770) 836-6999

Airframe Log Book Entry 09/23/2014
N414PH HOBBS: 5199.3

Drained fuel from LH tanks; replaced fuel pump PN 2B7-29 with overhauled unit SN 8E1427; returned fuel to tank and functional test pump. Performed function test of both fuel valves in all modes – operating normally. I certify that this aircraft has been repaired and inspected in accordance with current Federal Aviation Administration regulations and is approved for return to service. Detail on file under WO #5347

Repair Station NO. Z4AR547Y
Sammy Bereznak

e

TOTALS—Carry forward to next page

Page No. _____

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

forward from previous page

AIRCRAFT INSPECTION & REPAIR
709 Warehouse Dr. Laurel MS 39440
Phone: 601-270-5507

DATE: 05-19-17 **N414PH** **AIRFRAME**

TACH: 5334.0 **TSN: 6170.1**

1 Complied with AD 2000-01-16 para b and c
2. Tested ELT I/A/W FAR 91.209 d battery expires 8-17
3. Install new orings on fuel caps
4 Complied with AD 2016-17-08 by replaceing elevator trim hardware
5 Complied with AD 2004-21-05 pressure decay test on heater

Performed annual inspection I/A/W Cessna 414 M.M. and FAR 43appendix D. See AD listing for AD compliance. I certify this aircraft has been inspected I/A/W a annual inspect and was determined to be in airworthy condition.

David Sanford IA 3032129

AIRCRAFT INSPECTION & REPAIR
709 Warehouse Dr. Laurel MS 39440
Phone: 601-270-5507

DATE: 07/26/18 **N414PH** **AIRFRAME**

TACH: 5398.1

1. This aircraft has been inspected and has been found safe for the intended flight in accordance with special flight permit dated 07/26/18

David Sanford IA 3032129

AIRCRAFT INSPECTION & REPAIR
709 Warehouse Dr. Laurel MS 39440
Phone: 601-270-5507

DATE: 08-07-18 **N414PH** **AIRFRAME**

TACH: 5400.1 **TSN: 6236.2**

1 Complied with AD 2000-01-16 Paragraphs B, C, D,and E.
2 Complied with AD 95-09-13 IAW MEB93-10rl
3 Installed new battery P.N. G-246
4 Complied with AD 2016-17-08 by inspection
5 Install new orings on fuel caps
6 Installed new ELT Battery and Tested ELT I/A/W FAR 91.209 d battery expires2-2020.
7 Complied with AD 2004-21-05 para. (e)(1)(i)(ii)
8 Complied with AD2004-25-16R1 para. (e) (1)

Performed annual inspection I/A/W Cessna 414 M.M. and FAR 43appendix D. See AD listing for AD compliance. I certify this aircraft has been inspected I/A/W an annual inspect and was determined to be in airworthy condition.

David Sanford IA 3032129

SUB-TOTALS this page

TOTALS—Carry forward to next page

Page No. _____

DATE	TOTAL TIME IN SERVICE

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
PARA (a) Static System tested.
PARA (b) Altimeter (s)
Pilot's 400-18-1 C/P 5934P-3 Alt'm
S/N 2386 S/N 461171
Tested To 25,000 Feet
Para (c) Integrated System Test.
Signature
Houma Avionics, Inc CRS# AE2R687K
Houma, LA Date February 7, 2019

#1 GTX345 Transponder S/N 3EG025967
#2 NA Transponder S/N NA
Has been tested and was found to be in compliance with the requirements of FAR 91.413 (Part 43, APP F) Date 02/07/19
Houma Avionics, Inc. FAA CRS # AE2R687K Houma, LA
Signature

HOUMA AVIONICS, INC. 233 SAFETY ROAD HOUMA, LA 70363 AE2R687K
LOG ID# 356 07-February-2019 REF# 012419-01
N414PH S/N 414A0421 CESSNA 414A Pg 1 / 1

Updated software in GNS530W S/N 23822898 to Main v5.40 and GPS v5.00 IAW service bulletins 1317, 1315, 1762, and 1766. Verified the installation complies with the above listed service bulletins and IAW GNS500W Series Installation Manual P/N 190-00357-02 Rev M.

Removed KT76C Transponder. Installed Garmin GTX345 Transponder w/ ADS-B In/Out. The GTX345 was installed IAW STC#SA01714WI issued to Garmin International, Garmin GTX 3XX Part 23 AML STC Installation Manual P/N 190-00734-10 Rev 10, dated Mar 2018, GNS500W Series Installation Manual P/N 190-00357-02 Rev M, and IAW 43.13-1B Chapters 10, 11 & 12 and 43.13-2B Chapters 1, 2 & 3. Confirmed that the equipment does not increase maximum load on generator over 80% capacity. Installation does not interfere with magnetic compass operations.

Placed a copy of the Garmin GTX33X or GTX3X5 FAA Approved Airplane Flight Manual Supplement P/N 190-00734-15 Rev 3, dated Dec 21, 2017 in Pilot's Operating Handbook. Removed existing FMS for the GNS530W and replaced with GNS530W FAA Approved Airplane Flight Manual Supplement P/N 190-00357-03 Rev F, dated Nov 30, 2017. Placed a copy of the GTX33X/GTX3X5 ADS-B ICA 190-00734-11 Rev 6 with aircraft maintenance records. Removed existing ICA for the GNS530W from the aircraft maintenance records and replaced with GNS530W ICA 190-00357-65 Rev D. Weight and balance negligible.

AE2R687K JIM GRAVES

AIRCRAFT INSPECTION & REPAIR
709 Warehouse Dr. Laurel MS 39440
Phone: 601-270-5507

DATE: 09-02-2019 **N414PH** **AIRFRAME**
TACH: 5441.2 **TSN: 6277.3**

1 Complied with AD 2000-01-16 Paragraphs (b)(c)(d) and (e).
2. Tested ELT I/A/W FAR 91.209 d battery expires2-2020.
3. Replaced Main Battery P.N. G246
4 Complied with AD 2016-17-08 by inspection.
5. Complied with AD 95-09-13 IAW MEB93-10r
6. Installed New Brake Pads P.N. 066-06600
7. Installed Right Hand Static Wick P.N. C592001-0201
8. Repaired Right Landing Light, Installed TR-A6580 Gear, TR-A6585 Gear, and TR-A6932 Insulator

Performed annual inspection I/A/W Cessna 414 M.M. and FAR 43appendix D. See AD listing for AD compliance. I certify this aircraft has been inspected I/A/W an annual inspect and was determined to be in airworthy condition.

SUB-TOTALS this page

TOTALS—Carry forward to next page

Page No. ______

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

AIRCRAFT INSPECTION & REPAIR
709 Warehouse Dr. Laurel MS 39440
Phone: 601-270-5507

DATE: 10-13-20 N414PH AIRFRAME
TACH: 5485.4 TSN: 6321.5

1 Complied with AD 2000-01-16 Paragraphs (b) (c)and (e).
2. Installed new battery tested ELT I/A/W FAR 91.209 d
3. Resealed right top inboard fuel panel
4 Complied with AD 2016-17-08 inspection elevator tab hardware
5 Removed left main gear strut and resealed using PP400MSSK kit

Performed annual inspection I/A/W Cessna 414 M.M. and FAR 43appendix D. See AD listing for AD compliance. I certify this aircraft has been inspected I/A/W an annual inspect and was determined to be in airworthy condition.

David Sanford IA 3032120

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