

Closed



8-8-02 TO 3-3-11

LOG #6

AIRFRAME MAINTENANCE RECORDS

Registration No. N414PF
Serial No. 414A-0012



AIRFRAME MAINTENANCE RECORDS

Log No. 6

Aircraft Registration No. N 414PF

Model Cessna 414A

Serial No. 414A-0012



RAM Aircraft, Limited Partnership • Waco Regional Airport

Airframe Total Time: 4804.9

Hour Meter: 1879.4

Date: 08/08/02

Cessna 414A0012 N414PF

Above referenced aircraft modified per STC SA09105SC per installation of STC SE09104SC engines and per STC SA8728SW to increase gross weight to 7105 lbs. See 337 and attached form 8110-3 for approval of compatibility of previously installed vortex generators. Installed propeller model 3AF32C515. Installed RAM overhauled engines L-509670 and R-509405. Installed RAM/FAA/PMA 1719-3 synchrophase system. Installed Shadin Fuel Flow Indicating System per STC SA5796SW. Transducer installation per STC SE5726SW. Installed General Aviation Modifications, Inc. turboGAMIjectors Kit No. GT14C on left and right engines I/A/W STC SE09289SC. Slick pressurized magnetos P/N 6320 installed per STC SE4651SW. Installed Alcor range-marked EGT gauge P/N 46160 per STC SA522SW. Re-used existing 6 point CHT, EGT system. Installed red silicone impregnated fiberglass baffle material on each engine. FAA-PMA replacement baffles. C/W AD2000-01-16 para (g) by removal of the exhaust system from the slip joints aft. Installed new RAM/FAA/PMA stainless steel exhaust slip joints P/N 1001-3 on left and right engines I/A/W STC SA4331SW. Inspected and re-installed left engine inboard exhaust elbow P/N 9910377-2 and outboard exhaust elbow P/N 9910377-1. Installed new right engine inboard exhaust elbow P/N K9910377-1, S/N 89858 and outboard exhaust elbow P/N K9910377-2, S/N 89801. Installed new left elbow to wye clamps P/N NH1000897-60. Installed new left and right turbo wye P/N 1967-1, left S/N I4283-0002 and right S/N I4283-0004. Installed new left and right wye to wastegate elbow P/N 1967-3, left S/N 207, right S/N 149. Installed new left and right wye to wastegate elbow clamps P/N NH10009109-10. Installed new left and right wastegate tailpipes P/N 1967-7. Inspected and re-installed left and right overboard tailpipe P/N 9910299-1 and 9910299-2. Inspected and re-installed overboard tailpipe clamps P/N NH1000897-50. Replaced left and right wastegate and valve assy's. Installed factory overhauled turbochargers P/N 466412-9003, left S/N CDN00658 right S/N CDN00657. Installed new left and right top turbo supports P/N 1234-1. Re-inspection per paragraph (g) due each 2500 hours TIS or 12 years, whichever occurs first. C/W para (b) by visual inspection of the exhaust system 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 removal and visual inspection of exhaust tailpipes found to be serviceable at this time. Next removal and visual inspection per para (c) due each 12 calendar months. C/W para (d) by inspection of the outboard engine beams and canted bulkheads and found airworthy. Inspected left and right engine firewalls and found no distortion or overheating. Re-inspection per paragraph (d) due each 500 hours TIS. C/W para (e) by pressure check and inspection of left and right exhaust system. 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. Installed re-marked tachometer, manifold pressure gauge, airspeed indicators, and 3-in-1 gauges per STC requirements. Static system tested per FAR 91.411, para A 2. (Leak check of system only.) Installed new Aeroquip integral firesleeved fuel and oil hoses meeting TSO-C53 Type D and TSO-C75 Type III on each engine. Installed new left landing gear up-lock support P/N 5141204-3. Installed EZ Heat engine preheaters on left and right engines per manufacturers instructions. Installed new prop de-ice brush block on right engine. 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 left vacuum pump P/N AA442CW, S/N N09445. Installed vacuum pump cooling shroud on left and right engine vacuum pumps per STC SA3721SW. Installed RAM intercooler scoops, intercoolers and turbochargers per STC SA09105SC. New empty weight and balance computed. Aircraft is airworthy and is approved for return to service for engine run-in procedures and modifications performed. Pertinent details are on file under project no. 278.

Robert Frank

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

SUB-TOTALS this page

TOTALS—Carry forward to next page

Valley Aviation Inc.
Fort Payne, AL 35968
(256)845-9129

DATE

Date 8-20-03

N# 414PF

ED—
FORMING WORK

Replaced Hobbs Meter Old Meter Reading 2053.9 New Meter
Reading 000.0.

Robert B. Cowart
A&P424842614
Robert B. Cowart

LOG BOOK ENTRY

Date 10-21-03
Hobbs 17

Total Time 4996.4

N# 414PF

S# 414A0012

M# 414A

Inspected and serviced aircraft in accordance with scope and detail
of FAR 43 appendix d. O2 hydro test due 5-05. Replaced vacc. reg. filter.
C/w AD 96-20-07 heater pressure test due 7-04 or heater hobbs 877.7.
Inspected ELT in accordance with 91.207 (d). Due 11-05. C/w exhaust
ad 2000-01-16 by inspection of tail pipe and slipjoints and y connector.
I certify that this airframe has been inspected in accordance
with an 100hr. inspection and was determined to be in
airworthy condition.

A&P424842614
Robert B. Cowart
Robert B. Cowart

ANNUAL INSPECTION

Date 10-21-03
Hobbs 17

Total Time 4996.4

N# 414PF

S# 414A0012

M# 414A

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

Robert B. Cowart
IA424842614
Robert B. Cowart

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

Valley Aviation Inc.
Fort Payne, AL 35968
(256)845-9129

Hobbs 0.0

Date 1-12-04

N# 414PF

Replaced right hand alt. P# ALV9510. Installed new **hobbs meter** reading - 0-. Old meter read 16.7.

Robert B. Cowart
A&P424842614
Robert B. Cowart

Valley Aircraft Maintenance Inc.
Fort Payne, AL 35968
(256)845-9129

Hobbs 0.0
ATT 5055.0

Date 1-12-04

N# 414PF

On this date a new **hobbs meter** was installed reading - 0-. Previous hobbs meter was faulty and recording improperly. With help from pilot I have took flight logs and came up with 62.0 hrs flight time added to old hobbs time and determined ~~5055~~ to be the correct total time.

A&P424842614
Robert B. Cowart
Robert B. Cowart

Valley Aircraft Maintenance Inc.
Fort Payne, AL 35968
(256)845-9129

N# 414PF

Date 2-19-04

Removed and replaced #5 cylinder on left engine. With new stud assy. from Ram Aircraft. Test ran and leak checked. No leaks found. Aircraft test flown by pilot.

Robert B. Cowart
A&P424842614
Robert B. Cowart

TOTALS—Carry forward to next page

DATE _____

L&M AIRCRAFT INC.
ROME, GA 30165ED—
FORMING WORK

N414PF Cessna 414A s/n 414A0012 August 25, 2004

Aircraft Weighed this date. See new Weight & Balance Data.

Larry A. Owen
A&P 2050165

AIRCRAFT Cessna 414 N414PF S/N #414A0012

TOTAL TIME HOBBS:1909.8

MAINTENANCE RELEASE

1. INCOMING INSPECTION: REMOVE ALL FLIGHT CONTROLS

AS REQUIRED FOR PAINT. INSPECTED AIRCRAFT.

2. CHEMICALLY STRIPPED, ETCHED, ALODINE, EPOXY

PRIMED AN PAINTED USING THE FOLLOWING JET GLO PRODUCTS:

1. PRIMER : #484-900 Jet Glo
2. BASE: Marathon White #00150 Jet Glo
3. Light Burgundy #10629 Acry Glo
4. Medium Silver #10568 Acry Glo

PER MANUFACTURE'S MAINTENANCE MANUAL, BALANCED FLIGHT CONTROLS.

1. BALANCED Elevators IAW Page 16-17 Section 6
Right +.41 in/lbs Left +.49 in/lbs
2. 2. BALANCED AILERONS IAW Page 16-17 Section 5
Left -3.07 in./lb. Right -2.42 in/lb.
3. 3. BALANCE RUDDER IAW Page 16-16 Section 4
4. Balance -1.92in./lbs.

REINSTALLED FLIGHT CONTROLS IAW MANUFACTURERS MAINT. MANUAL

1. RUDDER IAW Page 6-1 Figure 7-1
2. AILERONS IAW Page 5-24 Figure 5-11
3. ELEVATORS IAW Page 6-2A Figure 6-1

Persons involved in the stripping process was: L. Olmstead, A. Crumpton

Persons involved in the painting process were: D. Gunnells, T. Day, P. Maddox, P. Fox,
T. McGahee, L. Scott

Page 1 of 2

MAINTENANCE RELEASE

THE AIRCRAFT, AIRFRAME OR APPLIANCE IDENTIFIED ABOVE
WAS REPAIRED AND INSPECTED IN ACCORDANCE WITH CURRENT
FEDERAL AVIATION REGULATIONS AND IS APPROVED FOR RETURN
TO SERVICE. PERTINENT DETAILS OF THE REPAIR ARE ON FILE AT
LEGENDS AIRCRAFT REFURBISHING, INC.

DATE: 10/24/2002

SIGNED 

Bruce MacGregor A & P # 376709935

LEGENDS

AIKEN MUNICIPAL AIRPORT
10 FORWARD COURT
AIKEN, SC 29805
IDENTIFIER: AIK
803-648-9571
Page 2 of 2

TOTAL

TOTAL

TACH OR
RECORDINGDESCRIPTION OF WORK PERFORMED
DATE NO. OF PERSON PERFORMED

Logbook Entry

N414PF

THE FOLLOWING ALTIMETER SYSTEM AND ALTITUDE REPORTING EQUIPMENT TESTS AND INSPECTIONS AS REQUIRED BY FAR 91.411, IN ACCORDANCE WITH FAR 43, APPENDIX E HAVE BEEN PERFORMED.

PARA (a) STATIC SYSTEM TO 18,000' 9-30-04PARA (b) ALTIMETER #1 TO 35,000' s/n 2400 9-30-04ALTIMETER #2 TO 35,000' s/n 404246 9-30-04PARA (c) INTEGRATED SYSTEM TO 35,000' 9-30-04

#1 GTX327 s/n 83708183 9-30-04

#2 RT859A s/n 754 9-30-04

ATC TRANSPONDER SYSTEM OPERATION CHECKED AND MEETS REQUIREMENT OF FAR 91.413 AS PRESCRIBED IN APPENDIX F OF PART 43.

Dale Rasor → STAR AVIONICS, INC.

LOVELL FIELD

CHATTANOOGA, TN 37421

FAA CERTIFIED REPAIR STATION # TA 4R537M

Ref. Star Avionics, Inc. W.O. #23959.

Logbook Entry

N414PF

10-6-04 Removed #3 Nav/Com units, DME Rec/Transmitter and indicator, ADF receiver, control and accessory unit. Weight and Balance computed. Ref. Star Avionics, Inc. W.O. #23979.

Dale Rasor → STAR AVIONICS, INC.

LOVELL FIELD

CHATTANOOGA, TN 37421

FAA CERTIFIED REPAIR STATION # TA 4R537M

SUB-TOTALS this page

TOTALS—Carry forward to next page

DATE

TACH OR

DESCRIPTION OF WORK PERFORMED—

WORK

LOG BOOK ENTRY

Date 11-18-04
Hobbs 117.6

Total Time 5155.6

N# 414PF
S# 414A0012
M# 414A

Inspected and serviced aircraft in accordance with scope and detail of FAR 43 appendix d. O2 hydro test due 5-05. Replaced vacc. reg. filter. C/w AD 96-20-07 heater pressure test due 11-06 or heater hobbs 973.7. Inspected ELT in accordance with 91.207 (d). Due 11-05. C/w exhaust Ad 2000-01-16 (para b) by visual insp of exhaust system and found serviceable due at 5205.6. (para c) removable and insp of tail pipe next due 11-18-05. (para d) due at 5304.9. (para e) pressure test found satisfactory at this time next due 11-18-05. (para f) n/a No multi-segment V-band clamps installed. (para g) Next due at 7304.9 or 8-8-12.

I certify that this airframe has been inspected in accordance with an 100hr. inspection and was determined to be in airworthy condition.

Robert B. Cowart
A&P424842614
Robert B. Cowart

ANNUAL INSPECTION

Date 11-18-04
Hobbs 117.6

Total Time 5155.6

N# 414PF
S# 414A0012
M# 414A

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

Robert B. Cowart
IA424842614
Robert B. Cowart

Valley Aviation Inc.
Fort Payne, AL 35968
(256)845-9129

Date 11-18-04

N# 414PF

On this date N414PF S# 414A0012 has been removed from annual inspection using AC43.13 app. D and placed on Cessnas Progress Care Program.

Robert B. Cowart
A&P424842614
Robert B. Cowart

SUB-TOTALS this page

TOTALS—Carry forward to next page

Valley Aviation Inc.
Fort Payne, AL 35968
(256)845-9129

DATE

TO
TI
SEP

Date 1-11-05

N# 414PF

Hobbs 137.7 TT 5175.5

IMING WORK

Installed Avionics Innovations model AI CD audio player i/a/w
STC SA09156RC using existing wiring. See 337 dated this date.
Equipment list and wight and balance revised.

A&P424842614

Robert B. Cowart



LOG BOOK ENTRY

Date 4-07-05

Total Time 5212.9

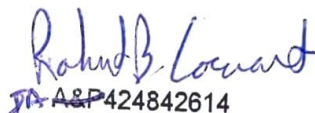
N# 414PF

Hobbs 174.9

S# 414A0012

M# 414A

Inspected and serviced aircraft in accordance with Progress care program
Operation # 1. O2 hydro test due 5-05. Replaced vacc. reg. filter.
Inspected ELT in accordance with 91.207 (d). Due 11-05. C/w exhaust
Ad 2000-01-16 (para b) by visual insp of exhaust system and found
serviceable due at 5262.9. (para c) removed and insp of tail pipe next due
4-07-06. (para d) due at 5304.9. Repaired nose gear door.



A&P424842614
Robert B. Cowart

HOBBS: 0182.6

Logbook Entry

N414PF

5-11-05 Removed S-550A mode selector p/n 42710-0000 s/n 932
for repair. Autopilot is placarded "INOPERATIVE". Ref. Star
Avionics, Inc. W.O. #24486.

Dale Rason

STAR AVIONICS, INC.

LOVELL FIELD

CHATTANOOGA, TN 37421

FAA CERTIFIED REPAIR STATION # TA 4R537M

Valley Aviation Inc.
Fort Payne, AL 35968
(256)845-9129

Date 5-5-05

Total Time 5253.7

N# 414PF

Oxygen bottle installed after hydro test and serviced with
1800psi avator oxygen. Next hydro test due 5-08.

A&P424842614

Robert B. Cowart



DATE

Date

A&P42482614
Robert B. Cowart
 7-7-05
~~8-8-05~~

Valley Aviation Inc.
 Fort Payne, AL 35968
 (256)845-9129

Total Time 5253.7

N# 414PF

FORMED—
 PERFORMING WORK

Complied with AD 2000-01-16, Visual inspection of exhaust system as required by paragraph (b) of this AD. Paragraph (b) next due 5303.7.

A&P424842614

Robert B. Cowart

Robert B. Cowart

Logbook Entry

N414PF

6-8-05 Replaced S-550A mode selector p/n 42710-0000 s/n 932 in aircraft after repair by Autopilots Central, Inc. Checks ok. Ref. Star Avionics, Inc. W.O. #24486.

Dale Rasor

STAR AVIONICS, INC.

LOVELL FIELD

CHATTANOOGA, TN 37421

FAA CERTIFIED REPAIR STATION # TA 4R537M

LOG BOOK ENTRY

Date 7-6-05

Total Time

5253.7

N# 414PF

Hobbs 215.7

S# 414A0012

M# 414A

Inspected and serviced aircraft in accordance with Progress care program operation # 2. O2 hydro test due 5-10. Trouble shot air condition system. Inspected ELT in accordance with 91.207 (d). Due 11-05.

Robert B. Cowart
 A&P424842614

Robert B. Cowart

HOBBS: 231.1

Logbook Entry

N414PF

8-24-05 Replaced PA-495A-2 pitch servo p/n 45850-4013 s/n 2005 in aircraft after repair by Mid-Continent Instrument Co., Inc. Checks ok. Ref. Star Avionics, Inc. W.O. #24871.

Dale Rasor

STAR AVIONICS, INC.

LOVELL FIELD

CHATTANOOGA, TN 37421

FAA CERTIFIED REPAIR STATION # TA 4R537M

RBC 2614
11-07-05

LOG BOOK ENTRY

Date **7-8-05** Total Time **5303.7** N# **414PF**

Hobbs **265.7**

S# **414A0012**

M# **414A**

MED—
FORMING WORK

Inspected and serviced aircraft in accordance with Progress care program operation # 3. Serviced O2 repaired leak. C/w 500 Hr. Mag. Inspection. Replaced both main tires and inspected wheels and brakes. C/w 500 Hr. vacuum pump replacement. C/w AD 2000-01-16 by visual insp. of exhaust system. C/w AD 2005-12-13 by 100hr. visual inspection next due 365.7. C/w AD 2004-25-16 by insp. of heater fuel shut off valve. Replaced cabin pressurization duct P# CM3211-18A4.2. Inspected ELT in accordance with 91.207 (d). Due. 11-07.

Robert B. Cowart
A&P424842614
Robert B. Cowart

Valley Aviation, Inc.

Fort Payne, AL 35966

(256)845-9129

Date **12-07-05**

Total Time **5349.7**

N# **414PF**

Complied with AD 2000-01-16, Visual inspection of exhaust system as required by paragraph (b) of this AD. Paragraph (b) next due ~~365.7~~

5399.7
RBC 424842614

A&P424842614

Robert B. Cowart

Robert B. Cowart

LOG BOOK ENTRY

Date **12-09-05** Total Time **5351** N# **414PF**

Hobbs **313**

S# **414A0012**

M# **414A**

Inspected and serviced aircraft in accordance with Progress care program operation # 4.

Inspected ELT in accordance with 91.207 (d). Due. 11-07.

A&P424842614
Robert B. Cowart
Robert B. Cowart

SUB-TOTALS this page

TOTALS—Carry forward to next page

Hobbs: 327.6 Logbook Entry N414PF
12-19-05 Removed IG-895A HSI p/n 52D137-2331
s/n 1-6907B for repair. Installed Serviceable
loaner IG-895A HSI p/n 52D137-2331 s/n 1-4356B.
Operation checkout ok. Ref. Star Avionics, Inc.
W.O. #25210.

WORK PERFORMED—
PERSON PERFORMING WORK

page

Dale Racer → STAR AVIONICS, INC.
LOVELL FIELD
CHATTANOOGA, TN 37421
FAA CERTIFIED REPAIR STATION # TA 4R537M

Valley Aircraft Maintenance Inc.

Fort Payne, AL 35968

(256)845-9129

Date 1-13-06 TT 5375.6 N# 414PF

Replaced right main tire 650x8 8ply Goodyear. Replaced Right fuel boost pump Per 414A Maintenance Manual.

Robert B. Cowart
A&P424842614
Robert B. Cowart

Valley Aviation Inc.

Fort Payne, AL 35968

(256)845-9129

Date 2-14-06 **Total Time** 5398.6 **N#** 414PF

Complied with AD 2000-01-16, Visual inspection of exhaust system as required by paragraph (b) of this AD. Paragraph (b) next due 5448.6.

A&P424842614

Robert B. Cowart

Aviation Inc.

Fort Payne, AL 35968

(256)845-9129

Date 2-9-06 **Total Time** 5403.7 **N#** 414PF

Replaced right turbo charger i/a/w cessna's 414A maintenance manual . Cut open oil filter no metal found.

A&P424842614

Robert B. Cowart

LOG BOOK ENTRY

Date 2-20-06 Total Time 5405.3 N# 414PF
Hobbs 367.3

S# 414A0012
M# 414A

Inspected and serviced aircraft in accordance with Progress care
program operation # 1.
Inspected ELT in accordance with 91.207 (d). Due. 11-07.

A&P424842614

Robert B. Cowart



Valley Aviation Inc.

Fort Payne, AL 35968

(256)845-9129

Date 4-5-06

Total Time 5448

N# 414PF

Complied with AD 2000-01-16, Visual inspection of exhaust
system as required by paragraph (b) of this AD. Paragraph (b)
next due 5498.

C/w AD 95-09-13 Permeb 93-10-R1

A&P424842614

Robert B. Cowart

LOG BOOK ENTRY

Date 4-7-06 Total Time 5453.1 N# 414PF
Hobbs 415.1

S# 414A0012

M# 414A

Inspected and serviced aircraft in accordance with Progress care
program operation # 2.
Inspected ELT in accordance with 91.207 (d). Due. 11-07.

A&P424842614

Robert B. Cowart

Valley Aviation Inc.

Fort Payne, AL 35968

(256)845-9129

Date 5-5-06

Total Time 5498

N# 414PF

Complied with AD 2000-01-16, Visual inspection of exhaust
system as required by paragraph (b) of this AD. Paragraph (b)
next due 5548.

A&P424842614

Robert B. Cowart

LOG BOOK ENTRY

Date 5-10-06 Total Time 5503.1 N# 414PF

Hobbs 465.1

S# 414A0012

M# 414A

Inspected and serviced aircraft in accordance with Progress care
program operation # 3.
Inspected ELT in accordance with 91.207 (d). Due. 11-07.

A&P424842614

Robert B. Cowart

MED—
FORMING WORK

HOBBS: 465.3 Logbook Entry N414PF
5-2-06 Removed SA-832B gyro slaving accessory
p/n 44720-00028 s/n 1-3899AR for repair.
Replaced with Serviceable IC714 slaving
accessory p/n 44720-0001 s/n 1745. Checks ok.
Ref. Star Avionics, Inc. W.O. # 25552.

Dale Raso STAR AVIONICS, INC.
LOVELL FIELD
CHATTANOOGA, TN 37421
FAA CERTIFIED REPAIR STATION # TA 4R537M

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

t forward from previous page

Hobbs: 481.9 Log Book Entry N414PF
5-16-06 Removed avionics cooling fan p/n
19A3022 from pedestal at F.S. 108. Replaced
at same location with new Lonestar Aviation
Corp. cooling fan p/n CRB-122253 s/n 5736
using the existing mounting surface and wiring
This is a minor alterarion with no change in
weight & balance. Ops checked OK. This air-
craft is approved for return to service with
respect to work performed. Reference Star
Avionics, Inc. work order number 25594.

[Signature]
STAR AVIONICS, INC.
LOVELL FIELD
CHATTANOOGA, TN 37421
FAA CERTIFIED REPAIR STATION # TA 4R537M

Hobbs: 481.9 Logbook Entry N414PF
5-16-06 Removed loaner IC714 slaving amp
p/n 44720-0001 s/n 1745. Replaced with
overhauled SA-832B (ID 755) slaving amplifier
p/n 44720-00028 s/n 1-4758A. Made necessary
calibration adjustments to meet manufacturers
specification. Ref. Star Avionics, Inc. work
order number 25552.

Dale Raso STAR AVIONICS, INC.
LOVELL FIELD
CHATTANOOGA, TN 37421
FAA CERTIFIED REPAIR STATION # TA 4R537M

Fort Payne, AL 35968
(256)845-9129

Date 6-6-06

Total Time 548

N# 414PF

Complied with AD 2000-01-16, Visual inspection of exhaust
system as required by paragraph (b) of this AD. Paragraph (b)
next due 5598.

[Signature]
A&P424842614
Robert B. Cowart

SUB-TOTALS this page

TOTALS—Carry forward to next page

N414P~~F~~

WORK

LOVELL FIELD

CHATTANOOGA, TN 37421

TAA CERTIFIED REPAIR STATION # TA 4R537M

Date 6-12-06 **Total Time** 5553.6 **N#** 414PF
Hobbs 515.6 **S#** 414A0012
M# 414A

Inspected and serviced aircraft in accordance with Progress care program operation # 4.
Inspected ELT in accordance with 91.207 (d). Due. 11-07.

A&P424842614

Robert B. Cowart

Robert B. Cowart
Robert B. Cowart

Valley Aviation Inc.

Fort Payne, AL 35968

(256)845-9129

Date 8-9-06 **Total Time** 5563.2 **N#** 414PF

Complied with AD 2000-01-16, Visual inspection of exhaust system as required by paragraph (b) of this AD. Paragraph (b) next due ~~2-28-02~~ 2-28-03

5613.2

A&P424842614

Robert B. Cowart

Date 8-15-06 **Total Time** 5603.6 **N#** 414PF
Hobbs 565.6 **S#** 414A0012
M# 414A

Inspected and serviced aircraft in accordance with Progress care program operation # 1.
Inspected ELT in accordance with 91.203 (d). Due. 11-07.

A&P424842614

Robert B. Cowart

TOTALS—Carry forward to next page

N414PF

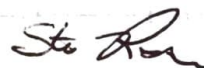
S/N 414A0012

24 August 2006
HOBBS 584.4

DATE WO M3925

IK

Air Condition System was depleted due to compressor failure. Removed and replaced IAW Cessna 414 M/M the Compressor with Factory New Compressor p/n 7088 and New Filter Dryer p/n 9910157-5. Flushed system and checked for leaks, both vac and pressure, none noted. System serviced with R414b IAW STC SA01639NY and Cessna M/M. No leaks noted at this time. Aircraft returned to service for work performed under Star Avionics Maint. Dept Work Order, M3925. END



Steve Rasor 269663771 A&P

Valley Aviation Inc.
Fort Payne, AL 35968
(256)845-9129

Date 10-15-06

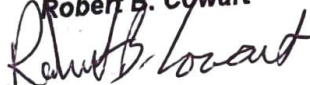
Total Time 5613.2

N# 414PF

Complied with AD 2000-01-16, Visual inspection of exhaust system as required by paragraph (b) of this AD. Paragraph (b) next due 5663.2

A&P424842614

Robert B. Cowart



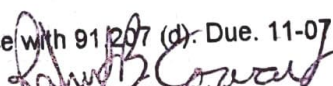
LOG BOOK ENTRY

Date 10-10-06 Total Time 5653.6 N# 414PF
Hobbs 615.6

S# 414A0012
M# 414A

Inspected and serviced aircraft in accordance with Progress care program operator#2
Inspected ELT in accordance with 91.207 (d). Due. 11-07.

c/w Ad 05-09-13
Per MEB 93-10-R1


A&P424842614
Robert B. Cowart

Valley Aviation Inc.
Fort Payne, AL 35968
(256)845-9129

Date 10-16-06

Total Time 5663.2

N# 414PF

Complied with AD 2000-01-16, Visual inspection of exhaust system as required by paragraph (b) of this AD. Paragraph (b) next due 5713.2

A&P424842614

Robert B. Cowart

(256)845-9129

Date 10-18-06

Total Time 5656.7

N# 414PF

Replaced right turbo charger i/a/w cessna's 414A maintenance manual .P/N 2059-1 S/N JFL00130 gasket 652475 and 653006
I certify that this aircraft is approved for return to service

A&P424842614

Robert B. Cowart



LOG BOOK ENTRY

Date 11-10-06 Total Time 5703.6 N# 414PF
 Hobbs 665.6 S# 414A0012
 M# 414A

Inspected and serviced aircraft in accordance with Progress care
 program operator#3
 Inspected ELT in accordance with 91.207 (d). Due. 11-07.

Robert B. Cowart
 A&P424842614
 Robert B. Cowart

Valley Aviation Inc.
 Fort Payne, AL 35968
 (256)845-9129

Date 11-16-06 Total Time 5713.2 N# 414PF

Complied with AD 2000-01-16, Visual inspection of exhaust
 system as required by paragraph (b) of this AD, Paragraph (b)
 next due 5763.2

Robert B. Cowart
 A&P424842614
 Robert B. Cowart

LOG BOOK ENTRY

Date 12-10-07 Total Time 5753.6 N# 414PF
 Hobbs 715.6 S# 414A0012
 M# 414A

Inspected and serviced aircraft in accordance with Progress care
 program operator#4

Inspected ELT in accordance with 91.207 (d). Due. 11-07.
 ing.

Robert B. Cowart
 A&P424842614
 Robert B. Cowart

Valley Aviation Inc.
 Fort Payne, AL 35968
 (256)845-9129

Date 1-8-07 Total Time 5763 N# 414PF

Complied with AD 2000-01-16, Visual inspection of exhaust
 system as required by paragraph (b) of this AD. Paragraph (b)
 next due 5813

A&P424842614
 Robert B. Cowart

LOG BOOK ENTRY

Date 1-18-07 Total Time 5803.6 N# 414PF
 Hobbs 765.6 S# 414A0012
 M# 414A

Inspected and serviced aircraft in accordance with Progress care
 program operator#1

Inspected ELT in accordance with 91.207 (d). Due. 11-07.

Robert B. Cowart
 A&P424842614
 Robert B. Cowart

ARMING WORK

DATE

Date 2-16-07

Total Time 5813

N# 414PF

AED—
FORMING WORK

Complied with AD 2000-01-16, Visual inspection of exhaust system as required by paragraph (b) of this AD. Paragraph (b) next due 5863.

A&P424842614

Robert B. Cowart



LOG BOOK ENTRY

Date 3-22-07 Total Time 5849.4 N# 414PF

Hobbs 811.4

S# 414A0012

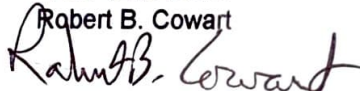
M# 414A

Inspected and serviced aircraft in accordance with Progress care program operation#2 Complied with AD 2000-01-16 Visual inspection of exhaust system as required by paragraph B of this AD Paragraph B next due 5899.4

Inspected ELT in accordance with 91.207 (d). Due. 11-07.

A&P424842614

Robert B. Cowart



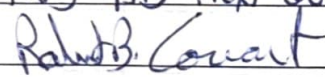
5-22-07

5900.6

Hobbs

862.5

Inspected and serviced aircraft in accordance with Progress care Program operation #3. Complied with AD 2000-01-16 by visual inspection of Exhaust system as required by Paragraph B of this AD next due 5919.4



A&P424842614

LOG BOOK ENTRY

Date 7-17-07 Total Time 5949.6 N# 414PF

Hobbs 911.6

S# 414A0012

M# 414A

Inspected and serviced aircraft in accordance with Progress care program operation#4 Complied with AD 2000-01-16 Visual inspection of exhaust system as required by paragraph B of this AD Paragraph B next due 5999.6

Inspected ELT in accordance with 91.207 (d). Due. 11-07.

A&P3127950

Robert B. Cowart



TOTALS—Carry forward to next page

Logbook Entry N414PF
 DAT 7-11-07 Replaced PA495A-2 pitch servo p/n 45850-4013 s/n
 2005 with rebuilt PA495A-2 pitch servo p/n 45850-4013
 s/n 760701. Operation checks ok. Ref. Star Avionics, Inc.
 W.O. #29578

Dale Raso →

STAR AVIONICS, INC.
 LOVELL FIELD
 CHATTANOOGA, TN 37421
 FAA CERTIFIED REPAIR STATION # TA 4R537M

Logbook Entry N414PF
 7-23-03 Replaced EA-801A encoding altimeter p/n 43300-
 61288 s/n 2400 in aircraft after repair & recertification
 by Mid-Continent Instrument Co., Inc. Performed checks as
 required by FAR 43, Appendix E, PARA (a) and (c). Ok.

Jim Michael

STAR AVIONICS, INC.
 LOVELL FIELD
 CHATTANOOGA, TN 37421
 FAA CERTIFIED REPAIR STATION # TA 4R537M

Logbook Entry N414PF
 7-25-03 Replaced KI209A Nav indicator p/n 066-3056-11
 s/n 7910 with serviceable KI209A Nav indicator p/n 066-
 3056-11 s/n U4059. See attached 8130-3 form from Honeywell
 International, Inc. Operation checks ok.

Dale Raso →

STAR AVIONICS, INC.
 LOVELL FIELD
 CHATTANOOGA, TN 37421
 FAA CERTIFIED REPAIR STATION # TA 4R537M

Valley Aviation Inc.
 Fort Payne, AL 35968
 (256)845-9129

Date 11-07-07
 Hobbs 1010.4

Total Time 6045.4

N# 414PF
 S# 414A0012
 M# 414A

Right wing anti-ice boot will not inflate. Trouble shot and
 found nylon hose disconnected. Reinstalled hose checks good.
 Rotated right main tire.
 Right alternator wire broken. Replaced wire. Checks good.
 Seatbelt light does not work. Replaced bulb. Checks good.

A3280028
 Joseph Tanner Cochran

Joseph Tanner Cochran

Valley Aviation Inc.
 Fort Payne, AL 35968
 (256)845-9129

Date 5-1-08

Total Time 1032.6

N# 414PF

Complied with AD 2000-01-16, Visual inspection of exhaust
 system as required by paragraph (b) of this AD. Paragraph (b)
 next due 1082.6.

A3280028
 Joseph Tanner Cochran

Joseph Tanner Cochran

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
				Valley Aviation Inc. Fort Payne, AL 35968 (256) 845-9129
Date	5-1-08			Total Time 1032.6 N# 414PF
				Complied with AD 2008-08-17, Visual inspection of turbo-charger V band clamp area para. F,G,H,I,J of this AD.
				A3280028 Joseph Tanner Cochran <i>Joseph Tanner Cochran</i>
				Valley Aviation Inc. Fort Payne, AL 35968 (256) 845-9129
Date	5-1-08			Total Time 6054.2 N# 414PF
Hobbs	1032.6			S# 414A0012 M# 414A
				Repaired wire on prop. gov. on R/H engine. ops. checks good. Adjusted fuel mixture on R/H eng. Ops check good.
				A3280028 Joseph Tanner Cochran <i>Joseph Tanner Cochran</i>
				LOG BOOK ENTRY
Date	5-29-08			Total Time 6072 N# 414PF
Hobbs	1033.6			Heater Hobbs 1079 S# 414A0012 M# 414A
				Inspected and serviced aircraft in accordance with scope and detail of FAR 43 appendix d. Performed landing gear retraction and emer. extension. Inspected ELT in accordance with 91.207 (d). Due 9-08. Removed and replaced r/h main tire per mims.
				I certify that this airframe has been inspected in accordance with an 100hr. inspection and was determined to be in airworthy condition.
				A3280028 Joseph Tanner Cochran <i>Joseph Tanner Cochran</i>
				ANNUAL INSPECTION
Date	5-29-08			Total Time 6071.6 N# 414PF
Hobbs	1033.6			S# 414A0012 M# 414A
				I certify that this aircraft has been inspected in accordance with an annual inspection and was determined to be in airworthy condition.
				<i>Robert B. Cowart</i> IA3127950 Robert B. Cowart
				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
				HOBBS: 1062.6 Logbook Entry N414PF THE FOLLOWING ALTIMETER SYSTEM AND ALTITUDE REPORTING EQUIPMENT TESTS AND INSPECTIONS AS REQUIRED BY FAR 91.411, IN ACCORDANCE WITH FAR 43, APPENDIX E HAVE BEEN PERFORMED. PARA (a) STATIC SYSTEM TO <u>18000'</u> 8-12-08 PARA (b) ALTIMETER #1 TO <u>35000' s/n 2899</u> 8-12-08 ALTIMETER #2 TO <u>35000' s/n 404246</u> 8-12-08 PARA (c) INTEGRATED SYSTEM TO <u>35000'</u> 8-12-08 #1 GTX327 s/n 83708183 8-12-08 #2 RT859A s/n 634 8-12-08 ATC TRANSPONDER SYSTEM OPERATION CHECKED AND MEETS REQUIREMENT OF FAR 91.413, AS PRESCRIBED IN APPENDIX F OF PART 43.
				<div style="text-align: right;"> STAR AVIONICS, INC. LOVELL FIELD W.O. 30387 CHATTANOOGA, TN 37421 FAA CERTIFIED REPAIR STATION # TA 4R537M </div>
				<div style="display: flex; justify-content: space-between;"> <div> 8/13/2008 Star Avionics, Inc. Lovell Field Chattanooga, TN 37421 </div> <div> N-414PF W.O. M4546 Hobbs: 1062.6 </div> </div> <p>Troubleshoot Prop Synchrophaser with information from RAM Maintenance Manual Supplement for RAM 1719-3 Propeller Synchrophaser dated May 5, 2004. Found wires crossed on right control coil. Rewired. Replaced exposed wires butt splices as needed and secured control box. Ground ran system and OPS checked normal.—End—</p> <div style="text-align: center;"> Robert E. Sutton A&P 3194823 IA </div>
				<div style="text-align: center;"> Valley Aviation Inc. Fort Payne, AL 35968 (256)845-9129 </div> <div style="display: flex; justify-content: space-between; margin-top: 10px;"> <div> Date 11-19-08 Hobbs 1088.1 </div> <div> Total Time 6126.1 </div> <div> N# 414PF </div> </div> <p>Complied with AD 2000-01-16, Visual inspection of exhaust system as required by paragraph (b) of this AD. Paragraph (b) next due 6176.1. Removed fire bottles for servicing. Installed serviceable fire bottles.</p> <div style="text-align: right; margin-top: 20px;"> A3280028 Joseph Tanner Cochran </div>
				<div style="display: flex; justify-content: space-between;"> <div> SUB-TOTALS this page </div> <div> TOTALS—Carry forward to next page </div> </div>

D/

Sept. 25, 2009

Logbook Entry

Aircraft TT:6172.8

Hobbs: 1117.8

S/N 414A0012

N-414PF

Cessna 414A

Validated that the previous installation of the GNS530 which was installed IAW Garmin Instructions and approved via an FAA-Stamped Field Approval Document on FAA Form 337 dated January 18, 2002. Verified this aircraft and all interfaced equipment are covered under the STC AML. The existing wiring and shielding was inspected and determined to be IAW the STC AML installation data. The existing GA56 Antenna was removed and replaced with a GA35 Antenna using the approved mounting provisions of the previous installation.

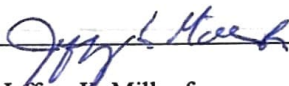
A summary of the modification done to the aircraft is as follows:

- 1) Removed Garmin GA56 antenna P/N 011-00134-00 and installed GA35 GPS/WAAS Antenna P/N 013-00235-00 S/N 40309 using the provisions left behind from the standard antenna IAW with Garmin upgrade manual P/N 190-00357-06 Rev. D and STC no SA01933LA.
 - 2) Removed Garmin GNS 530 P/N 011-00550-10 unit and installed Garmin GNS 530W P/N 011-01064-40 S/N 78404107, using the provision left behind from the standard 530 unit. Installation done IAW with Garmin upgrade installation manual P/N 190-00357-06 Rev. D and STC no SA01933LA.
 - 3) The GNS-530W was determined to meet the Field of View Requirements without external annunciation.
 - 4) The GNS 530W was configured identical to the original 530 unit. Each interface was checked out IAW the 500W Series Installation Manual P/N 190-00357-02 Revision G Dec. 2008. A copy of the checkout log was completed.
 - 5) Removed the Aircraft Flight Manual Supplement for the GNS 530 and installed a GNS 500W Series AFMS P/N 190-00356-03, Rev. B FAA Approved date July 31, 2009 into the Aircraft Flight Manual.
 - 6) Updated the aircraft Equipment List and Weight and Balance to reflect the New WAAS unit.
- Instructions for Continued Airworthiness (ICA)
- a) GNS 530W- Included Garmin document P/N 190-00357-65, GNS 500W Series Instructions for Continued Airworthiness in the aircraft maintenance records.

Note: These supersede ICAW data for the previously installed GNS-530.

The Original Instructions for Continued Airworthiness (ICA) are located in the aircraft records. The ICA is now a part of the Aircraft Inspection/Maintenance Requirements.

End


Jeffrey K. Miller for
Star Avionics, Inc.
CRS TA4R537M
Lovell Field
Chattanooga, TN 37421

SUB-TOTALS this page

TOTALS—Carry forward to next page

STAR AVIONICS, INC.
208 NOWLIN LANE, HANGER #21
CHATTANOOGA, TN 37421
423-499-1100

N414PF C-414A S/N 414A-0012

Date: 9-25-2009 Aircraft Total Time: 6172.8 Hobbs: 1117.8

Inspected and service aircraft in accordance with the scope and detail of FAR 43 Appendix d. Performed hydro test of the landing gear blow down bottle P/N 991015 S/N 718 and Oxygen bottle P/N 801366/11 S/N 81, test performed by Chattanooga Fire Protection, Chattanooga, Tn. Reinstalled after test and serviced. Removed all three landing gears, cleaned and resealed. Replaced both main gear pin support rings p/n 0841212-1. Complied with 1000 hr. / 3 yr. inspection of the main gear pivot bearings. C/W 1000 landings SID insp. of main gear upper barrel. Main gear serviced and reinstalled in accordance with Cessna 414A MM. Replaced brake hoses with new and bled brakes. C/W 400 hr inspection of the nose gear drag brace, replaced bearing in the right side. C/W 1000 hr/ 3 yr. inspection of the nose gear pivot bearings. C/W 2500 hr/5000 landing SID inspection of the nose gear trunion assy. Reassembled nose gear with all new hardware, reinstalled and serviced. Replaced main landing gear retraction and extension hoses with new. Performed landing gear normal and emergency operational check and rigging check. Replaced both main wheel assemblies with used serviceable wheels P/N 40-13A due to corrosion. Wheels assembled with new bearings and disc P/N 164-20306. Replaced the left main tire. Resealed both brake calipers and installed new brake linings P/N 066-06600. Replaced the left brake torque plate p/n 075-01902 due to damage from wheel bolts. Replaced the oxygen system service line in the nose compartment. Replaced both the pilots and co-pilots oxygen mask assy. p/n C166009-0801. Fabricated and installed 5 new oxygen lines in the cockpit and cabin overhead. Replaced all gasper air ducts in the cockpit and cabin overhead under headliner do to corrosion. Serviced and installed a new aircraft battery P/N G-246. Cleaned and treated battery box with corrosion resistant paint. Installed new battery box vent tube. Cleaned, treated, primed and painted corrosion in the exhaust trails under both wings and flaps. Replaced bad rivets in skin doublers on both wings just aft and outboard of the main gear doors. Removed the aileron, elevator and rudder trim actuators for 1000 hr/ 3yr Overhaul. Reinstalled with new hardware and rigged after overhaul by, The Aviation Group, Inc., Peachtree City, GA. FAA RS#VGOR728L. Rudder Actuator P/N 5115275-4 S/N 074409, Aileron P/N 5115540-3 S/N 074309 and Elevator P/N 1260074-4 S/N 074209. Replaced the left aileron outboard bearing. Replaced springs on the APU connect Access door. Fabricated and installed Surface patch on the right wing Aft of the wheel well do to skin cracks. Primed and painted. Fabricated and installed flap well stiffener just outboard of the wing locker buy cutting out corroded section. Bonded with EA 9309 and riveting in place. Primed and painted. Replaced numerous rivets in wing and nacelle fairings due to looseness. Replaced Instrument air filter P/N AM1034351A and vacuum regulator filters P/N B3-5-1. Replaced both fire bottle cartridges P/N AE13083-5, Lot # AEN 1-127 MFD 6/09, these cartridges have a 10 yr total life. Installed P/N PM-56 nose cone erosion boot. Replaced 28 rivets in the left nose landing gear door hinge due to looseness. Inspected ELT unit in accordance with FAR 91.207 (d), replaced battery pack P/N 2020, new replacement date 8-2011, operational check was

normal. Replaced rudder bonding strap at the center hinge. Removed and replaced heat exchanger ducts both sides. C/W 400 hr replacement of the hydraulic filters. Replaced the left evaporator Assy cover. Replaced o-ring in the right pressure air dump valve. Cleaned both evaporators. Replaced the airconditioner motor hydraulic filter, 400 hr item. Installed new lower cabin door snubber and rigged steps. Cleaned pressurization controller filter. Flight control Cable tensions checked. Performed 600 hr. tested of the pressurization barometric pressure switch, checked normal. 6000 hr eddy current inspection of the lower cabin door hinges performed by Epps Air Service, Inc. Atlanta, Ga. FAA RS# ESMR 688D. Checked OK at this time. Performed 1200 Pressure Cabin Type A & B inspection, no defects noted at this time. C/W the following SID's inspections: Elevator Torque Tube Assembly, next due @ Aircraft TT 7172.8. Outboard Elevator hinge bracket and attachment, next due @ Aircraft TT 7172.8. Wheel well close-out rib inspection, next due @ Aircraft TT 7172.8. Type "B" wing & stub wing inspection, next due @ Aircraft TT 7372.8. Forward wing spar web inspection, next due @ aircraft TT 7172.8. Inspection-Acrylic windshield, next due @ aircraft TT 7172.8. Repaired left wing leading edge forward of fuel filler do to small pin holes from corrosion under de-ice boot. Corrosion was removed by cutting out area and installing a patch in accordance with Cessna MEB 95-11. See 337 this date for details. Removed and replaced All surface de-ice boots. Installed direct replacement SMR Technologies /Ice Shield Boots. Installed Left outboard boot P/N SMR5070-37 S/N 1062, LH Inner P/N SMR5070-38 S/N 1059, RH outboard SMR5070-07 S/N 1094, RH inner SMR5070-08 S/N 1110, LH Stab P/N SMR 5070-11 S/N 1415, RH Stab P/N SMR5070-11 S/N 1401, Vert. Stab P/N SMR5070-14 S/N 1091. Work performed in accordance with Cessna 414A MM and SMR Install and MM. Removed and replaced the follow surface de-ice system flow control vales with Overhauled or serviceable Valves LH P/N 3D2352-01 S/N 7054, RH P/N 3D2352-01 S/N2233, tail P/N 3D2352-01 S/N 4986. Operational check of surface de-ice system was normal. Complied with Kelly Aerospace (Janitrol Heater) AD2004-21-05, Pressure decay and pressure switch test. Checked ok at this time, Next due @ Heater HM 1201.2 or 10-14-2011. Complied with Kelly Aerospace (Janitrol Heater) AD2004-25-16R1, Fuel Shut off valve test, check ok at this time. Next due @ Heater HM 1201.2 or 10-14-2010. Current Heater HM reads 1101.2. Complied with Cessna AD 2000-01-16 Exhaust system inspection Par's (b), (c), (d) & (e) by visual and pressure check. Checks ok at this time. Next due @ Par (b) @ 6222.8 Aircraft TT or 11-14-2009 whichever is later, Par (c) & (e) due @ 10-14-2010, Par (d) due @ aircraft TT 6672.8. Par's (f) & (g) are N/A, No Multi segment "V" band clamps. Cessna AD 95-09-13 Fuel Inlet Float Valve test is due by Aircraft TT 6253.6. Cessna AD2005-12-13 Forward wing spar eddy current due at 8500 hrs aircraft TT, and Spar strap install by 9000 hrs TT. Cessna AD97-26-16 Radiographic inspections of the engine mount beams due @ Aircraft TT of 12,766.7. AD' checked through this date. I certify that this aircraft has been inspected in accordance with an annual inspection and was found to be in an airworthy condition. Details on file at this location under the follow WO #'s M4807, M4808, M4810 & M4822 . End-----

Clinton E. Renner, Jr.
For Star Avionics, Inc.

Clinton E. Renner, Jr. AP3418727IA

VICE	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

ASSC 
Aviation Specialty Services Corp.
 Tel:954-816-7399 Fax:954-792-2516 afmohamed@hotmail.com
10-05-09 N414PF C-414A S/N: 414A0012 H.M: 1122.1

AIRFRAME:

Replaced leaking left forward fuel tank drain with new P/n: 79C1 and new o-ring P/n: MS29513-020. I certify, with respect to the work accomplished above, that this aircraft is approved for return to service.

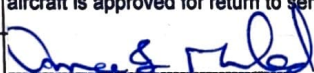


Ameer F. Mohamed
AP3270645

ASSC 
Aviation Specialty Services Corp.
 Tel:954-816-7399 Fax:954-792-2516 afmohamed@hotmail.com
10-27-09 N414PF C-414A S/N: 414A0012 H.M: 1144.9

AIRFRAME:

Replaced broken spring P/n: 511520-4 on upper cabin door outside handle. Tightened loose upper brake hose fitting in left wheel well. I certify, with respect to the work accomplished above, that this aircraft is approved for return to service.


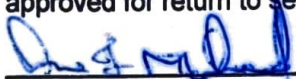

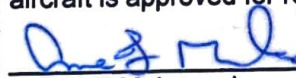



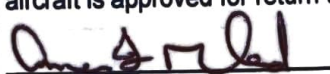



Ameer F. Mohamed
AP3270645



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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
					<div style="text-align: center;">  <p>ASSC Aviation Specialty Services Corp. Tel:954-816-7399 Fax:954-792-2516 afmohamed@hotmail.com 01-16-2010 N414PF Cessna 414A S/N: 414A0012 HM: 1177.4</p> <p>AIRFRAME: Repaired loose bracket on left outb'd gear door. Drilled out old loose bonded nutplates and reinstalled bracket with structural screws P/n: AN525-10R16 and nuts P/n: MS21043-3. Reinstalled door and performed landing gear swing satisfactory. Replaced broken nutplate inside of upper cabin door extender reinforcement bracket with new P/n: MS21059L3K. Replaced extender P/n: 5211004-21 with new. Replaced extender cable P/n: 5119066-3 with new. I certify, with respect to the work accomplished above, that this aircraft is approved for return to service.</p> <p> Ameer F Mohamed A&P 3270645</p> </div>
					<div style="text-align: center;">  <p>ASSC Aviation Specialty Services Corp. Tel:954-816-7399 Fax:954-792-2516 afmohamed@hotmail.com 01-20-2010 N414PF Cessna 414A SN: 414A0012 HM: 1178.0</p> <p>AIRFRAME: Rigged elevator trim system and painted white line on indicator. Replaced upper door forward lock pin guide with new P/n: 5111531 see Cessna FAA Form 8130-3 dated 11-06-00. and adjusted linkages. Replaced baggage door handle bearing P/n: 5311225-7. Repaired right nose baggage door extender and reinstalled. I certify, with respect to the work accomplished above, that this aircraft is approved for return to service.</p> <p> Ameer F Mohamed A&P 3270645</p> </div>
					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
				<div style="text-align: center;">  <p>ASSC Aviation Specialty Services Corp. Tel: 954-816-7399 Fax: 954-792-2516 afmohamed@hotmail.com</p> <p>02-26-2010 N414PF Cessna 414A S/N: 414A0012 HM: 1189.7</p> <p>AIRFRAME: Removed Gill battery P/n: G-246 S/n: G02477748. Battery installed on 12/17/2009 @ H.M: 1155.9. Installed Concorde battery P/n: RG24-20 S/n: 40336040 in accordance with Concord Owner/Operator Manual P/n: Drawing: 5-0164 Rev. B dated 09-09-2005. Instructions for Continued Airworthiness Maintenance Manual Supplement P/n: Drawing: 5-0142 Rev. J dated 02-20-2007 provided. Ground run accomplished, charging system op's check satisfactory. I certify, with respect to the work accomplished above, that this aircraft is approved for return to service.</p> <p> Ameer F Mohamed A&P 3270645</p> </div>
				<div style="text-align: center;">  <p>ASSC Aviation Specialty Services Corp. Tel: 954-816-7399 Fax: 954-792-2516 afmohamed@hotmail.com</p> <p>06-29-2010 N414PF Cessna 414A S/N: 414A0012 HM: 1243.7</p> <p>AIRFRAME: Replaced inoperative left auxillary fuel pump switch with new P/n: MS35059-21. Repaired wire terminal attached to high pressure side of switch due to heat damage. Rotated both main tires on wheel halves. Cleaned and repacked wheel bearings. Adjusted toe out on right main landing gear. Trim newly installed upholstery away from sight glasses on lower cabin door lock indicators. Checked pitch trim rigging. Found indicator at control wheel limiting full nose up travel. Adjusted indicator and verified correct travel of trim tab. Complied with AD 00-01-16, exhaust system leaks IAW para. (a) and (d) by visually inspecting. No defects found. Installed anti-chaffing tape on aft section of left engine where top cowl contacts. Replaced both propeller spinners with new P/n: D5212 due to de-ice wire clamps installed incorrectly and chaffing through old spinners. Repositioned clamps correctly and installed missing rubber insulator in several clamps. Shimmed new spinners upon installation. Ground run performed satisfactory. I certify, with respect to the work accomplished above, that this aircraft is approved for return to service.</p> <p> Ameer F Mohamed A&P 3270645</p> </div>
				<p>CPR Aviation Window Repair 9/3/2010</p> <p>Polished/Repaired Co-pilot Windshield outer Surface.</p> <p>I.A.W. Cessna 414A Maintenance Manual #AC4313.</p> <p>Verified thickness using a Calibrated thickness gauge.</p> <p>OK to return to service. N414PF S/N414A0012</p> <p> Benjamin Kitchens</p>
				<p style="text-align: center;">SUB TOTALS in 4 pages</p> <p>A&P #2805141 813-728-1346</p>

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TOTALS brought forward from previous page				
<div style="text-align: center;">  <p>ASSC Aviation Specialty Services Corp. Tel: 954-816-7399 Fax: 954-792-2516 afmohamed@hotmail.com 08-12-2010 N414PF Cessna 414A S/N: 414A0012 H.M: 1257.3</p> <p>AIRFRAME: Air conditioner not blowing cold air. Found condenser fan inop. Replaced fan motor assy with serviceable P/n: 9910155-1 S/n: 459, see serviceable acknowledgement invoice no. 228711 from Atlanta Air Exchange Inc. dated 08-04-2010. Secured fire extinguisher and made cabin drawer latch. Troubleshoot low air flow from overhead vents. To be corrected at annual inspection. I certify, with respect to the work accomplished above, that this aircraft is approved for return to service.</p> <p> Ameer F Mohamed A&P 3270645</p> </div>				

Lynch Avionics
Ft. Lauderdale, Fla. 33315

FAA # KT4R322M

Completed 91.411 Altimeter test per FAR 43

#1 P/N EA801 S/N 2899 Alt

#2 P/N 5934PA-3 S/N 404246 Alt

Completed 91.413 Transponder test per FAR

#1 P/N GTX327 S/N 83708183

#2 P/N RT859A S/N 634

Completed 91.411 Encoder test per FAR 43

#1 P/N EA801 S/N 2899

#2 P/N — S/N —

Completed 91.411 Static system test per FAR

Work order # 1242 Date 9-

Sign [Signature] A/C # 1

rial #: 404246

Altimeter Reads	Reads	
	Room Temp.	Hys.
12000	+10	—
14000	+10	+20
16000	0	—
18000	-10	0
20000	-20	
25000	-30	
30000	-30	
35000	-40	
40000		
45000		
50000		

Work Order #: 1242

Tested By: [Signature]
KT4R322M PH. 954-359-0088

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ASSC 
Aviation Specialty Services Corp.
Tel: 954-816-7399 Fax: 954-792-2516 afmohamed@hotmail.com

10-06-2010 N414PF Cessna 414A S/N: 414A0012 H.M: 1285.4

AIRFRAME:

AIRFRAME:
Replaced right main tire with new Good Year Flight Custom III P/n: 650C86-3 (6:50 x 10 8-PR) S/n: 01312321. See Good Year tire & rubber Co. FAA Approval No. DMIR831193CE FAA Form 8130-3 dated 09-09-2010. Cleaned, inspected and repacked wheel bearings. Inspected brake linings and caliper and found in satisfactory condition. I certify, with respect to the work accomplished above, that this aircraft is approved for return to service.

Ameer F Mohamed
A&P 3270645

ASSC 
Aviation Specialty Services Corp.
 Tel: 954-816-7399 Fax: 954-792-2516 afmohamed@hotmail.com
 11-12-2010 N414PF Cessna 414A S/N:414A0012 ACTT: 6354.7 HM: 1299.7




AIRFRAME:




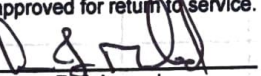
AIRFRAME:
ELT inspected IAW FAR 91.207(d), Battery due replacement 08-2011. FAR 91.411 & 91.413 NEXT DUE 09-2012. Checked required placards and ARROWE documents. Weighed fire extinguishers 4 lbs 10 ozs (4 lbs 14 ozs +/- 4 ozs). Air condition hyd filter next due ACTT 6572.8. Barometric pressure switch next due ACTT 6672.8. Emergency gear blow down bottle hydro test next due 09-2014. Oxygen cylinder hydro test next due 09-2012. Pressure cabin Type A insp next due ACTT 7372.8, Type B insp next due ACTT 9772.8, Type C insp next due ACTT 13,000. Cabin door hinges surface eddy current insp next due ACTT 9772.8. NLG & MLG trunnion pivot bearing next due ACTT 6672.8 or 09-2012. NLG drag brace insp next due ACTT 6572.8. AD's researched through FAA Issue 2010-23. AD 05-12-13 lower wing spar caps due at ACTT 8500.0. AD 97-26-16 engine mount beams due at ACTT 12,766.7. CW AD 95-09-13 fuel tank inlet float valve next due at ACTT 6954.7. AD 90-02-13 MLG barrel inner bearing no longer applies per AD Compliance List dated 07-27-2006. AD 10-11-04 hyd valve lifters NA by excluded engines in AD. AD 09-19-07 EQ3 cylinder heads NA (applies to P/n: EQ7053). AD 09-16 03 Superior cyls NA, not installed. AD 04-25-16 R1 fuel reg shut off valve next due H.M: 1399.7. AD 04-21-05 cabin heater and air pressure switch next due heater H.M: 1201.2 or 10-14-2011. AD 10-07-08 early turbine wheel failure NA by PN's.

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						TOTALS brought forward from previous page
<div style="text-align: center;">  <p>Aviation Specialty Services Corp. Tel:954-816-7399 Fax:954-792-2516 afmohamed@hotmail.com</p> </div> <p>AD 00-01-06 exhaust system cracks & corrosion: CW par (b) recurring ACTT 6404 or 12-29-2010, par (c) recurring 11-2011, par (d) recurring ACTT 6854, par (e) recurring 11-2011. Cleaned both induction air filters elements. Replaced leaking LH wing aft fuel drain valve with new valve P/n: 79C1 & "O" ring MS29513-020. Installed brass screws on flux valve insp panel. Replaced fuel cap "O" rings P/n: MS29513-338. Replaced damaged nutplates for RH stub wing insp panel. Shimmed LH & RH mounts up due to intake pipe chafing on nose bowls, shims P/n: 5056010-4, one new mount bolt P/n: AN7-37A, two lock tabs P/n: 0851559-1. Tightened loose clamp for cabin heater duct on fwd side of fwd pressure bulkhead for pressurization leak. Replaced hydraulic filter elements P/n: AN6235-2A. Cleaned & resealed fuel strainer bowls seals P/n: 600-001-625 & N674-70-151 & "O" rings MS28775-8. Replaced both vacuum regulator filters P/n: RAB3-5-1. Serviced brake reservoir, A/C hyd reservoir, landing gear reservoir, tires & charged battery. Troubleshoot inop overhead air vents, found plenum under flooring behind pilots seat cracked & broken. Removed LH A/C evaporator for access. Repaired plenum & replaced ducting P/n: 5117218-1. Reinstalled evaporator. Replaced two forward damaged moisture drain seals P/n: CM3575-2, removed & reinstalled RH A/C evaporator for access. Vacuum & serviced air condition system. Replaced LH fuel selector valve with OH unit P/n: 9910201-1 S/n: 138 due to valve not shutting engine off in the off position, see the Aviation group Inc. FAA Approval # VGOR728I WO # 34057 & FAA Form 8130-3 dated May 21, 2010.</p> <p style="text-align: right;">CONTINUED</p>						
<div style="text-align: center;">  <p>Aviation Specialty Services Corp. Tel:954-816-7399 Fax:954-792-2516 afmohamed@hotmail.com</p> </div> <p>Troubleshoot # 3 & # 4 display on RH GEM engine indicator display. Cleaned & repacked all wheel bearings. Clean rust off nose wheel axle. Replaced torn nose wheel bearing dust cap felt seals with new P/n: 154-01300. Adjusted toe on LH MLG torque links. Safety nose gear actuator rod end hardware. Replaced worn out RH MLG up-lock hook with new P/n: 5141312-1. Performed landing gear retraction and extension tests. Paint touched up around nose bowls, baggage doors, dorsal fin, LH wing tip, propeller tips. Treated entire airframe with ACF-50 corrosion inhibitor. I certify this AIRCRAFT has been inspected in accordance with a 100 hour/ANNUAL INSPECTION within the scope & detail of FAR 43 App D and Cessna 414A M.M. inspection outline and was determined to be in AIRWORTHY CONDITION.</p> <p>  Ameer F Mohamed A&P 3270645 IA </p>						
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<div style="text-align: center;">  <p>ASSC Aviation Specialty Services Corp. Tel: 954-816-7399 Fax: 954-792-2516 afmohamed@hotmail.com 12-16-2010 N414PF Cessna 414A SN: 414A0012 ACTT: 6366.9 HM: 1311.9</p> </div>				
<p>AIRFRAME: Removed pilot's divider and seat to gain access to voltage regulators. Paralleled both alternators to 27.5 VDC. Ground run and tested. Reinstalled interior. Landing gear will not cycle. Found hydraulic reservoir empty. Troubleshoot and found pressure switch at hydraulic manifold leaking at "O" ring. Replaced "O" ring with new, serviced hydraulic system and cycled landing gear several times to bleed system. Landing gear retraction and extension tests performed satisfactory. Serviced hydraulic reservoir and closed up nose baggage area. Removed right engine 3 in 1 gauge due to inop CHT. Sent out for repair. Reinstalled repaired gauge P/n: 18C452-1 S/n: A63800 see Nylor's Instrument Services Inc. FAA Approved No. NYJR148L WO # 17493 and FAA Form 8130-3 dated Dec/10/2010. Ops tested gauge OK. I certify, with respect to the work accomplished above, that this aircraft is approved for return to service.</p> <p> Ameer F Mohamed A&P 3270645</p>				
<div style="text-align: center;">  <p>ASSC Aviation Specialty Services Corp. Tel: 954-816-7399 Fax: 954-792-2516 afmohamed@hotmail.com 04-27-2011 N414PF Cessna 414A S/N: 414A0012 H.M: 1352.6</p> </div>				
<p>AIRFRAME: Replaced burned out right landing light lamp with new P/n: GE453, ops tested O.K. Disassembled nose strut, cleaned, re-sealed with A2748 PolyPal seal, MS28775-228 "O" ring, S33756 scraper ring, reassembled and serviced hydraulic fluid and nitrogen. Polished out deep grooves on outside of lower strut bearing. I certify, with respect to the work accomplished above, that this aircraft is approved for return to service.</p> <p> Ameer F Mohamed A&P 3270645</p>				
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ASSC



Aviation Specialty Services Corp.

Tel: 954-816-7399 Fax: 954-792-2516 afmohamed@hotmail.com

03-03-2011 N414PF Cessna 414A S/N: 414A0012 H.M: 1336.5

AIRFRAME:

Jacked left wing, removed left wheel. Disassembled wheel, cleaned and inspected wheel halves and bearings. Repacked bearings. Replaced LH main tire with new 6.50x10 8 PR Flt Custom III S/n: 03012287. Serviced all tires with nitrogen. I certify, with respect to the work accomplished above, that this aircraft is approved for return to service.

Ameer F Mohamed
A&P 3270645