

# INSPECTION RECORD

F.A.R. 43.11-91.409

DATE	AIRCRAFT TIME IN SERVICE	KIND OF INSPECTION - STATUS & DISCREPANCY LIST SIGNATURE - CERT. NO. OF PERSON APPROVING OR DISSAPPROVING AIRCRAFT FOR SERVICE
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## AIRCRAFT LOG ENTRY LABEL

David Heath  
Owner

Heath Aviation,  
219 Airport Dr.  
Winona Airport  
WINONA, MS. 38967  
662-283-9833

CERTIFIED REPAIR  
STATION NO. HVDR337X  
HA FORM 101

I CERTIFY THAT THE ALTIMETER, ENCODING SYSTEM AND STATIC SYSTEM TEST REQUIRED BY CFR 91.411 HAS BEEN PERFORMED THIS DATE. THE ALTIMETERS (1) KING KEA346 S/N X3400; (2) UNITED INSTRUMENTS 5934PA-3 S/N 431619 TESTED 20,000 FT

I CERTIFY THAT THE TRANSPONDER TEST REQUIRED BY CFR 91.413 HAS BEEN PERFORMED THIS DATE AND FOUND TO COMPLY. TRANSPONDERS (1) KING KT76C S/N 14129; (2) KING KT76A S/N 28178

SIGNATURE *David Heath* DATE 03-09-2010

WORK ORDER # 4584

N100EM AIF Vol II

INSPECTION RECORD  
F.A.R. 43.11-91.409

DATE

AIRCRAFT TIME  
IN SERVICE

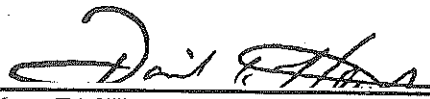
KIND OF INSPECTION - STATUS & DISCREPANCY LIST  
SIGNATURE - CERT. NO. OF PERSON APPROVING OR DISSAPPROVING AIRCRAFT FOR SERVICE

MARCH 12, 2010 LOG BOOK ENTRY N 100EM TACH TIME:7544.1 WORK ORDER #4584A

REMOVED: DEFECTIVE GA 35 ANTENNA

INSTALLED: GA 35 ANTENNA, P/N 013-00235-00, S/N 57310

WEIGHT AND BALANCE CHANGE NEGLIGIBLE.



MARCH 24, 2010 LOG BOOK ENTRY N 100EM TACH TIME:764.6 WORK ORDER #4584A

GARMIN GNS430W, P/N 011-01060-00, S/N 23403477 SOFTWARE UPGRADE GPS TO 3.2 MAIN TO 3.3.

WEIGHT AND BALANCE CHANGE NEGLIGIBLE.



David Heath

Heath Aviation

FAA CRS HVDR337X

JACOBS AIRCRAFT COMPANY/ JACKSON, MS  
530 TERMINAL DRIVE 39209 / 601-948-1601

N100EM AIRCRAFT LOGBOOK ENTRY 8-3-10 HOUR METER 794.4

Removed oxygen bottle, S/N K495104 for Hydrostatic Test and regulator valve for overhaul. Instrument panel placarded.

David Townes Cox A&P 2679578

*David Townes Cox*

FOR SERVICE

JACOBS AIRCRAFT COMPANY/ JACKSON, MS  
530 TERMINAL DRIVE 39209 / 601-948-1601

N100EM AIRCRAFT LOGBOOK ENTRY 8-3-10 HOUR METER 794.4  
AIRCRAFT TOTAL TIME IN SERVICE 6367.6

Complied with AD notes: 2003-24-07 by insp. Of rudder for corrosion per AS, due each 12 mo. 2004-21-05 by decay test of heater. Due each 12 mo. Or 100 hrs heater operation. 2004-25-16R1 by insp of heater fuel shut off valve, due each 100hrs. 2008-14-07 by insp. of fuel injector lines and clamps LT & RT eng. 2009-13-06 by insp of FWD baggage door. Replaced missing decal. Due each 100hrs. See complete AD List in rear of this logbook. Cleaned fuel strainers. Serviced aircraft battery. Replaced ELT antenna. Replaced ELT battery. ELT inspected per FAR 91.207 (d). ELT expiration date is AUG 2012. Aircraft jacked, cleaned and repacked all wheel bearings. Replaced LT L/G uplock roller. Landing gear retraction operational checked. Emergency landing gear extension operational checked. Engine washed and ground run, operational check OK, no leaks noted. Aircraft washed.

I certify that this AIRCRAFT has been inspected in accordance with an ANNUAL INSPECTION and was determined to be in airworthy condition.

David Townes Cox IA 2679578

*David Townes Cox*



# JACOBS AIRCRAFT COMPANY/ JACKSON, MS

530 TERMINAL DRIVE 39209 / 601-948-1601

DATE

AIR

FOR SERVICE

N100EM AIRCRAFT LOGBOOK ENTRY 8-17-10 HOUR METER 807.9  
AIRCRAFT TOTAL TIME 6381.1

Oxygen bottle removed and sent for hydrostatic test and regulator valve overhaul.  
See attached Forms 8130-3. Oxygen bottle next hydro test due 8-9-2013. Replaced  
left cabin ventilator blower motor. Installed Piper Kit 764-382.

David Townes Cox A&P 2679578

*David Townes Cox*

# JACOBS AIRCRAFT COMPANY/ JACKSON, MS

531 TERMINAL DRIVE 39209 / 601-948-1601

N100EM 1-11-11 AIRCRAFT LOGBOOK ENTRY HOUR METER 839.3

Repaired lower cabin step. Replaced 2ea. Fuel quick drain valves on lt & rt wings.

David Townes Cox  
A&P 2679578

*David Townes Cox*

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JACKSON, MISSISSIPPI

N100EM

Date 6-2-2011

Hourmeter 893.5

Replaced lt. elevator with servicable elevator removed from 23TL PA-31-350 s/n 31-8152172.  
AD99-12-05 & AD2001-06-01 P/C/W. Checked elevator balance. OK.

Sheldon A Burgess A&P 2159379

*Sheldon A Burgess*



JACOBS AIRCRAFT COMPANY/ JACKSON, MS

530 TERMINAL DRIVE 39209 / 601-948-1601

N100EM AIRCRAFT LOGBOOK ENTRY 7-12-11 HOUR METER 908.5

DATE

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IN SE

Removed left eng instrument air pump, P/N 441CC-7, S/N 61784. Installed overhauled pump, P/N 441CC-7, S/N 15143-08 overhauled by Aero Accessories. Engine Ground run, operational and leak check OK.

David Townes Cox A&P 2679578

*David Townes Cox*

SERVICE

JACOBS AIRCRAFT COMPANY / JACKSON, MS.

530 TERMINAL DRIVE 39209 / 601 948 1601

N100EM AIRCRAFT LOGBOOK ENTRY 7-15-11 HOUR METER 908.7

Replaced lt & rt main gear tires and tubes. Replaced right brake linings. Replaced upper beacon bulb.

David Townes Cox A&P2679578

*David Townes Cox*

JACOBS AIRCRAFT COMPANY/ JACKSON, MS

530 TERMINAL DRIVE 39209 / 601-948-1601

CYLIST  
OVING AIRCRAFT FOR SERVICE

N100EM 4-2-11 AIRCRAFT LOGBOOK ENTRY HOUR METER 889.8

Complied with the following AD Notes: 2004-25-16R1 (e) (1), inspection of heater fuel shut off valve. 2008-14-07 by inspection of fuel lines and clamps per AD, Lt & Rt engines. 2009-02-03 by replacement of gasket on throttle body plug, torqued and saftied per AD, Lt & RT engines. This AD no longer required. 2009-13-06 (e)(2)(B) by inspection and lube of nose baggage door latch assembly. Serviced air-conditioning with Freon.

David Townes Cox A&P 2679578

*David Townes Cox*

AUGUST 1, 2011 LOG BOOK ENTRY N100EM HOBBS TIME:917.9 WORK ORDER # 4920

TROUBLESHOT AND REPAIRED AP TRIM, PITCH SERVO, AND INTERCOM/PTT-CIRCUITRY

REPLACED PM1000 INTERCOM WITH PM1000 II S/N K13179

WEIGHT AND BALANCE CHANGE NEGLIGIBLE

*David Heath*  
DAVID HEATH  
HEATH AVIATION  
FAA CRS# HVDR337X

# INSPECTION RECORD

F.A.R. 43.11-91.409

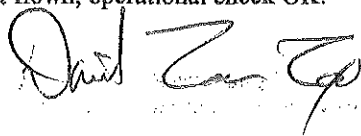
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JACOBS AIRCRAFT COMPANY/ JACKSON, MS  
530 TERMINAL DRIVE 39209 / 601-948-1601

N100EM AIRCRAFT LOGBOOK ENTRY 8-6-11 HOUR METER

Removed and replaced TIT instrument. Installed customer supplied overhauled P/N  
PS50101-33L, S/N 3159. Aircraft test flown, operational check OK.

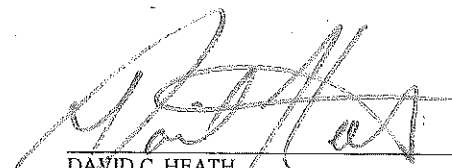
David Townes Cox A&P 2679578



FEBRUARY 14, 2012 LOG BOOK ENTRY N100EM HOBBS TIME: 997.7 WORK ORDER # 5032

SENT KAS-297 S/N 1871 AND KDI-572 S/N 6030 TO DUNCAN AVIATION FOR REPAIR.  
REFERENCE DUNCAN WORK ORDER NUMBERS 17TFA (KAS9-297) AND 17TGA (KDI-597).  
8130S GIVEN TO CUSTOMER.

WEIGHT AND BALANCE CHANGE NEGLIGIBLE



DAVID C. HEATH  
HEATH AVIATION  
FAA CRS# HVDR337X



JACOBS AIRCRAFT COMPANY/ JACKSON, MS  
530 TERMINAL DRIVE 39209 / 601-948-1601

Complied with AD notes: 2003-24-07 by visual insp. of rudder per AD, due each annual insp. 2004-25-16R1 by insp. of heater fuel shutoff, due each 100hr or annual. 2008-14-07 by insp of fuel inj lines & clamps, both eng. Due each 100hr of after inj. maint. 2009-12-06 by insp. of baggage door, due each 100hrs. 2011-15-15 this AD does not apply to these fuel injector throttle bodies. See complete AD List in rear of this logbook. Cleaned fuel strainers. Serviced aircraft battery. ELT inspected per FAR 91.207 (d). ELT expiration date is AUG 2012. Replaced lt & rt TIT probes, installed P/N 86341 Alcor probes Aircraft jacked, cleaned and repacked all wheel bearings. Landing gear retraction operational checked. Emergency landing gear extension operational checked. Replaced hydraulic pump filters. Serviced hydraulic power pack reservoir, Engines washed and ground run, operational check OK, no leaks noted. Aircraft washed.

David Townes Cox LA 2679578

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JACOBS AIRCRAFT COMPANY/ JACKSON, MS  
531 TERMINAL DRIVE 39209 / 601-948-1601

NI00EM 1-11-11 AIRCRAFT LOGBOOK ENTRY HOUR METER 1025.5

Replaced left engine instrument air pump. Installed O/H pump P/NAA441CC-7, S/n 835607. Replaced inline instrument air filter. Complied with the following AD Notes: 2011-26-04 by inspection of fuel injector lines and clamps per (h) 2009-13-06 R1 by inspection of baggage door per (2) (I)(ii) and 2004-25-16R1 per (e) (1). AD list revised.

David Townes Cox  
A&P 2679578

*David Townes Cox*

LIST  
ING AIRCRAFT FOR SERVICE



## AIRCRAFT LOG ENTRY LABEL

David Heath  
Owner

**Heath Aviation,**  
219 Airport Dr.  
Winona Airport  
WINONA, MS. 38967  
662-283-9833

CERTIFIED REPAIR  
STATION NO. HVDR337X

HA FORM 101

I CERTIFY THAT THE ALTIMETER, ENCODING SYSTEM AND STATIC SYSTEM TEST REQUIRED BY CFR 91.411 HAS BEEN PERFORMED THIS DATE. THE ALTIMETERS (1) KING KEA346 S/N X3400; (2) UNITED INSTRUMENTS 5934PA-3 S/N 431619 TESTED 20,000 FT

I CERTIFY THAT THE TRANSPONDER TEST REQUIRED BY CFR 91.413 HAS BEEN PERFORMED THIS DATE AND FOUND TO COMPLY. TRANSPONDERS (1) KING KT76C S/N 14129; (2) KING KT76A S/N 28178

**SIGNATURE**

DATE 06/20/2012

WORK ORDER # 5154

[illegible]



N100EM PA31-350 S/N 8152196 HOBBS 10035.5



5410 OPERATIONS ROAD, MONROE, LA 71203  
(318) 387-0222 Repair Station #3MIR878B

DATE 7-5-12

OR SERVICE

Serviced air conditioning system with 2 lbs R12. Operational check normal.  
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 *Paul G. Giff* WO# 12945

N100EM PA31-350 S/N 8152196 HOBBS 1086.3



5410 OPERATIONS ROAD, MONROE, LA 71203  
(318) 387-0222 Repair Station #3MIR878B

DATE 8-2-12

Troubleshoot leak in air conditioning system with dye. Found compressor and high pressure hose leaking. Installed new  
high and low pressure hoses. Removed compressor p/n EF210R-25212 s/n 2467053 and reinstalled after overhaul  
(Skyline Accessories WO# 1699 dated 7/31/12). Installed new dryer p/n 552-209. Pulled vacuum on system and  
serviced with 6 oz oil and 7 lbs R-12. Operational checks normal. Installed new oil cooler duct p/n 457-595. Installed  
new left out board fuel probe p/n 550-697.

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 *Paul G. Giff* WO# 12962

# JACOBS AIRCRAFT COMPANY/ JACKSON, MS

530 TERMINAL DRIVE 39209 / 601-948-1601

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ROVING AIRCRAFT FOR SERVICE

N100EM AIRCRAFT LOGBOOK ENTRY 8-29-2012 HOUR METER 1090.5

Right main gear actuating cylinder repaired. Cylinder disassembled, cleaned and reassembled with new seals. Replaced 2ea. MS28778-4, orings, 1ea. 762-548 ring assy., 1ea. 752-588, oring, 762-541, retainer, 765-530, scrapper, 762-549, ring assy. Actuator reassembled per Piper PA31-350 M.M., Chapter 6, Paragraphs 128 thru 131. Actuator reinstalled and rigged per Chapter 7, Main Landing Gear Adjustment. Landing gear operational checked through 10 complete cycles and one cycle of emergency gear extension. All functions normal, no leaks noted. Replaced upper rotating beacon bulb.

David Townes Cox  
A&P 2679578

*David Townes Cox*

# JACOBS AIRCRAFT COMPANY/ JACKSON, MS

530 TERMINAL DRIVE 39209 / 601-948-1601

N100EM AIRCRAFT LOGBOOK ENTRY 9-20-2012 HOUR METER 1103.3

Replaced all seals in Main Gear inboard gear door actuators.. Actuators removed, disassembled, inspected. Actuators reassembled with all new seals and orings. Adjusted main INBD gear doors. Replaced lt and rt hydraulic filters. Landing gear operational checked, functioned normal, no leakage noted. Repaired voltage clamp assembly in trim indicator circuit.

David Townes Cox A&P 2679578

*David Townes Cox*



# INSPECTION RECORD

## F.A.R. 43.11-91.409

JACOBS AIRCRAFT COMPANY/ JACKSON, MS  
530 TERMINAL DRIVE 39209 / 601-948-1601

N100EM AIRCRAFT LOGBOOK ENTRY 10-4-2012 HOUR METER 1109.4  
AIRCRAFT TOTAL TIME IN SERVICE 6682.6

Complied with AD notes: 2003-24-07 by visual insp. of rudder per AD, due each annual insp. 2004-25-16R1 by insp. of heater fuel shutoff, due each 100hr or annual. 2004-21-05 by decay test per AD (1)(iii), due each 100hrs of heater operation or 24 mo. Heater HM 211.3. 2008-14-07 by insp of fuel inj lines & clamps, both eng. Due each 100hr of after inj. maint. 2009-12-06 by insp. of baggage door, due each 100hrs. See complete AD List in rear of this logbook. Cleaned fuel strainers. Serviced aircraft battery. ELT battery P/N BS2166 replaced. ELT inspected per FAR 91.207 (d). ELT expiration date is SEP 2014. Replaced tail nav light. Aircraft jacked, cleaned and repacked all wheel bearings. Replaced all left brake linings. Landing gear retraction operational checked. Emergency landing gear extension operational checked. Replaced hydraulic pump filters. Serviced hydraulic power pack reservoir, Engines washed and ground run, operational check OK, no leaks noted. Aircraft washed.

I certify that this AIRCRAFT has been inspected in accordance with an ANNUAL INSPECTION and was determined to be in airworthy condition.

David Townes Cox IA 2679578

*David Z. Cox*

SERVICE



INSPECTION RECORD  
F.A.R. 43.11-91.409

TIME  
IN SERVICE

KIND OF INSPECTION - STATUS & DISCREPANCY LIST  
SIGNATURE - CERT. NO. OF PERSON APPROVING OR DISSAPPROVING AIRCRAFT FOR SERVICE

N 100EM 2-26-13 AIRCRAFT LOGBOOK ENTRY HM 1141.8

Replaced nose wheel tire and tube. Installed P/N 606C66-8 Goodyear Flight Custom III tire and P/N TU600-6ACL, tube.

David Townes Cox  
A&P 2679578

*David Townes Cox*

N 100EM 2-26-13 AIRCRAFT LOGBOOK ENTRY HM 1162.6

Replaced left and right main gear tires and tubes. Installed 2ea. 650C86-3 Goodyear Flight Custom III tires and 2ea. TU650-10ACL tubes. Replaced right main gear down lock switch, P/N 1CH21-4. Switch rigged in accordance with Piper PA31-350 Maintenance Manual. Landing gear retract and extension operational checked, all functions normal.

*David Townes Cox A&P 2679578*

# Aircraft Weigh Form

Date: May 14, 2013

**Aircraft**  
 Tail No: N100EM  
 Make: Piper  
 Model: PA31-350  
 Serial: 31-8152186  
 Time:  
 TCD No: A20SO

**Registered Owner**  
 Name: Simmons Aquavent LLC  
 Address: 2028 Erickson Rd  
 Yazoo City, MS  
 39194-9457

**Method of Weighing**  
 Equipment Make: Weigh Systems  
 Calibration Date: May 2, 2013  
 Model: 3000  
 Serial #: 1059, 1060, 1061

- Datum is located: 137" fwd of main spar centerline
- Leveling Means: Top of two front right side of base, near access door
- Main Wheel weighing point is located: Forward 152.2 Alt of Datum
- Actual measured distance from the main wheel point center line to the tail (or nose) point center line is: 127.8
- Nose or tail wheel weighing point is located: Forward 24.4 Alt of Datum
- Aircraft weighed with: 24 qts. of engine oil and 182 gals of usable fuel.

Weighting Point	Scale Reading	Arm	Moment
Nose	1226.0	24.40	29,914.40
Tail	1,092.0	135.95	-148,129.80
Left Main	2,428.0	152.20	369,653.80
Right Main	2,331.0	152.20	354,778.20
Total Weight	4,894.0		606,256.60

7. Moment: 506,256.60 / Weight: 4,894.0 = CG 123.88

Notes: Aircraft was weighed full of fuel. The negative weight at tail station is the subtraction of the usable fuel 636# @ 125.8 and 456# @ 148 yielding a resultant moment of 148'133 at 135.65 and a combined weight of 1092 pounds.

Aircraft Empty Weight: 4,894.0  
 Aircraft Useful Load: 2,106.0  
 Aircraft Gross Weight: 7,000.0

Prepared By: Madison Air Center LLC  
 17450 Old Canton Rd  
 Madison, MS 39110

Signature: *[Signature]*

Printed Name: David C. Enfrekin

Repair Agency License No: A&P 3398557

Form 24-AWS-NC-CPM





# INSPECTION RECORD

## F.A.R. 43.11-91.409

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IN SERVICE

KIND OF INSPECTION - STATUS & DISCREPANCY LIST  
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N100EM  
06/04/2014

Replaced King KMT-112 with new unit p/n 071-1052-00 s/n 81592...

Signature:

Leonard Furrar 3617577

The aircraft and/or component identified above was inspected in accordance with current regulations of the Federal Aviation Agency and was found airworthy for return to service.

JPS AVIATION, LLC. AVIONICS DIVISION  
5410 OPERATIONS RD., MONROE, LA.  
REPAIR STATION NUMBER 3MID878B  
WORK ORDER NUMBER: 57743

DATE

AIRCRAFT TIME  
IN SERVICE

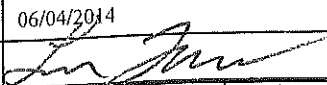

SIGNATURE

JPS AVIATION, LLC 5410 C

THE FOLLOWING ALTIMETER SYSTEM AND  
STATIC SYSTEM AS REQUIRED BY FAR 91.411  
IAW FAR 43 APPENDIX "E" HAVE BEEN PREFORMED

REPAIR STA. # 3MID878B

PILOTS ALTIMETER SER #	X3400
PILOTS ALTIMETER PART #	066-306
COPILOTS ALTIMETER SER #	431619
COPILOTS ALTIMETER PART #	5934PA-3
TESTED TO	20,000

AIRCRAFT #	N100EM	SERIAL #	PA-31-350
DATE	06/04/2014	DATE	06/04/2014
SIGNED		SIGNED	
WORK ORDER #	57743	WORK ORDER #	57743

## SCALE CORRECTIONS:

ALTIMETER READS	ADD ALTERNATELY	
	Room Temp °C	Low Temp °C
0	0	
500	+20	
1000	+20	
1500	+20	
2000	+20	
3000	+20	
4000	+20	
6000	+20	
8000	+20	
10000	0	
12000	-20	

JPS AVIATION, LLC

ALTIMETER NO.

5934PA-3

ALTIMETER READS	ADD ALTERNATELY	
	Room Temp °C	Low Temp °C
14000	0	
16000	-40	
18000	-20	
20000	-80	
22000	+20	
25000	+20	
30000	+40	
35000	+40	
40000		
45000		
50000		

DATE:

6-4-14

SERVICE

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AIRCRAFT TIME  
IN SERVICE

N100EM AIRCRAFT LOGBOOK ENTRY 6-10-2014 HOUR METER 1241.6

Installed Whelen LED beacon in upper position. See Form 337 this date for further details. Replaced left recognition light bulb and added grounding strap. Replaced right voltage regulator. Installed new P/N B00286-1, Serial Number 10085. Aircraft ground run, alternator voltages paralleled. Lubed left fuel selector valve cable.

David Townes Cox A&P 2679578



N100EM  
08/12/2014

Updated Garmin GNS-430W to Main Software Version 5.10 as per SSB 1403 rev B and GPS Software to Version 5.0 as per SSB 1317 rev A.

JPS Aviation, LLC. 5410 Operations Road Monroe, LA. 71203  
Repair Station 3MID878B  
Leonard Farrar 3617577

