



AVIONICS MAINTENANCE RECORD

AIRCRAFT SERIAL AND REGISTRATION 172810925 N5113J

D5520-2-13

INSTRUCTIONS

This record should be completed and maintained in accordance with FAA Federal Aviation Regulations:

91.411 Altimeter system and altitude reporting equipment tests and inspections,

91.413 ATC transponder tests and inspections,

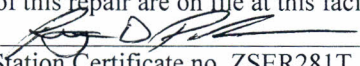
and

43.9, 43.11 and 91.215, and/or other prevailing government regulations.

NOTE: Record required tests in the back of this record
Record Service Letters and Airworthiness Directives in the back of this record as well as the
Airframe Maintenance Record.

Copyright © 1996

MAINTENANCE RECORD

DATE	TOTAL TIME IN SERVICE		DESCRIPTION OF THE WORK PERFORMED	AUTHORIZED SIGNATURE, CERTIFICATE TYPE & NUMBER
	HOURS	10ths		
7/16/09	31	3	UPDATED SYSTEM SOFTWARE TO V. 563.14 PER CESSNA SB09-34-05	 CRS ZSER281T
			W.O. AV-1197 N5113J TACH 135.2 11/16/2009  Eastern Iowa Avionics Eastern Iowa Airport 3411 Beech Way SW Cedar Rapids, IA 52404 Repair Station # ZSER281T	
			LOG ENTRY	
			Removed GDC74A, P/N 011-00882-10, S/N 20606269 and replaced with Overhauled Exchange Unit, S/N 20605526. Loaded software and tested IAW Cessna Nav III G1000 Line Maintenance Manual, P/N 190-00352-00, Rev. N dated 12/2008 and found to be satisfactory. Performed system leak checks required by FAR 91.411 and found to comply with Part 43, Appendix E, Paragraph (a). Details of this repair are on file at this facility under W.O. # <u>AV-1197</u> Signed:  Repair Station Certificate no. ZSER281T	

MAINTENANCE RECORD



W.O. AV-1389
N5113J
TACH 574.6
1/6/2011

Eastern Iowa Avionics
Eastern Iowa Airport
3411 Beech Way SW
Cedar Rapids, IA 52404
Repair Station # ZSER281T

AUTHORIZED SIGNATURE,
CERTIFICATE TYPE
& NUMBER

LOG ENTRY

Removed GTP59 Outside Air Temperature Probe, P/N 011-00978-00, S/N 47912486 and replaced with new exchange unit, S/N 47914446. Loaded system software and tested IAW Cessna Nav III G1000 Line Maintenance Manual, P/N 190-00352-00, Rev. N dated 12/2008 and found to be satisfactory.

Details of this repair are on file at this facility under W.O. # AV-1389

Signed: [Signature]
Repair Station Certificate no. ZSER281T

W.O. AV-1416
N5113J
TACH: 626.4
3/3/2011



Eastern Iowa Avionics
Eastern Iowa Airport
3411 Beech Way SW
Cedar Rapids, IA 52404
Repair Station # ZSER281T

AUTHORIZED SIGNATURE,
CERTIFICATE TYPE
& NUMBER

LOG ENTRY

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.

Paragraph (a) Static System 3/3/2011

Paragraph (b) Altimeter 3/3/2011

1 ADC M/N GDC74A S/N 20605526
STBY Altimeter M/N 5934PD-3 S/N 473068

Tested to: 20,000 Ft.

Paragraph (c) Integrated System 3/3/2011

Details of this inspection are on file at this facility under W.O. # AV-1416

Signed: [Signature]
Repair Station Certificate no. ZSER281T

The ATC Transponder Test & Inspections Required by FAR 91.413 were Performed this date and found to be in compliance with Part 43, Appendix F.

1. Make Garmin Model GTX33 S/N 89108384
2. Make N/A Model N/A S/N N/A

Details of this inspection are on file at this facility under W.O. # AV-1416
Date 3/3/2011

Signed: [Signature] for PS Air, Inc.
Repair Station Certificate No. ZSER281T

FRM-213

**ALTIMETER
SCALE CORRECTION CARD
FRM-214**

Actual Altitude Feet	Indicator Under Test Reads	Actual Altitude Feet	Indicator Under Test Reads
-1000	-1000	14,000	13920
0	0	16,000	15920
500	500	18,000	17920
1,000	1010	20,000	19930
1,500	1510	22,000	/
2,000	2010	25,000	
3,000	3010	30,000	
4,000	4000	35,000	
6,000	5920	40,000	
8,000	7950	45,000	
10,000	9930	50,000	
12,000	11920		

S/N 473068 Date: 3-3-2011

PS Air, Inc. Inspector: RP

Cedar Rapids, IA 52404

Repair Station #ZSER281T

**ALTIMETER
SCALE CORRECTION CARD
FRM-214**

Actual Altitude Feet	Indicator Under Test Reads	Actual Altitude Feet	Indicator Under Test Reads
-1000	-990	14,000	13990
0	0	16,000	15990
500	500	18,000	17990
1,000	1000	20,000	19980
1,500	1500	22,000	/
2,000	2000	25,000	
3,000	3000	30,000	
4,000	4000	35,000	
6,000	6000	40,000	
8,000	8000	45,000	
10,000	10000	50,000	
12,000	11990		

S/N 20605526 Date: 3-3-2011

PS Air, Inc. Inspector: RP

Cedar Rapids, IA 52404

Repair Station #ZSER281T

MAINTENANCE RECORD

DATE	TOTAL TIME IN SERVICE		DESCRIPTION OF THE WORK PERFORMED	AUTHORIZED SIGNATURE, CERTIFICATE TYPE & NUMBER
	HOURS	10ths		
3/29/11	680	2	C/W CESSNA SB 11-34-01 R1 BY UPDATING G1000 SYSTEM SOFTWARE TO V. 0563.21. RAMP TESTED - SATISFACTORY	<i>[Signature]</i> CRS # ZSER281T
5/22/12	1220	3	C/W CESSNA SB 34-02 BY UPDATING G1000 SYSTEM SOFTWARE TO V. 0563.26 RAMP TESTED - SATISFACTORY	<i>[Signature]</i> CRS # ZSER281T

MAINTENANCE RECORD

DATE	TOTAL TIME IN SERVICE		DESCRIPTION OF THE WORK PERFORMED	AUTHORIZED SIGNATURE, CERTIFICATE TYPE & NUMBER
	HOURS	10ths		
			Date: 6/05/2013; Aircraft: N5113J Serial Number: 172S 10925 Tach: 1481.20 Work Order: SPG-12-1283 I certify this aircraft static system has been tested and inspected I.A.W. FAR 43, appendix E paragraph (a) to an altitude of 1,000 ft AGL. Aircraft Altitude Reporting System tested and inspected I.A.W. FAR 91.411 to an altitude of 20,000 feet MSL. Aircraft transponder checked and certified I.A.W. FAR 91.413. Aircraft altimeter and ADC have been checked and certified I.A.W. FAR 43 appendix E. TXP MODEL: Garmin GTX-33 S/N: 89108384 TSO: C112 ENC/ADC MODEL: Garmin GDC-74A S/N: 20605526 TSO: C106 ALT MODEL: United Inst 5934PAD-3D S/N: 473068 TSO: C10b I certify that the above stated maintenance and /or inspection was performed in accordance with the current regulations of the Federal Aviation Administration. Signed, <i>[Signature]</i> for Jet Air Inc. CRS # JAFR110F	

ALTIMETER TEST RECORD IAW FAR 43 APPENDIX E PARA. (B)

JET AIR, INC.
GALESBURG,

R.R. 2 BOX 117
IL 61401

MUNICIPAL AIRPORT
CRS NO. JAFR110F

ALTIMETER TEST

SHOP ORDER: SPG-R-1283
CUSTOMER: Univ. of Dubuque
ALT. MFG.: SIANA
P/N: GDC-74A
S/N: 20605526

DATE: June 3, 2013
TECH: DT
ENCODING: 0 N
TSO: C106
AD'S: Y (N)

BAROMETRIC SCALE ERROR:
(+/- 25 FT TOLERANCE)

PRESSURE

ALTITUDE

ALTIMETER

IN/HG

FEET

READS

28.10

-1727

-1135

28.50

-1340

-795

29.00

-863

-270

29.50

-392

200

29.92

+

590

30.50

+ 531

1125

30.90

+ 893

1790

30.99

+ 974

1520

PASS ☒
FAIL ☐

CASE LEAK:
(100 FPM MAX)

18,000 FT 5 FPM
PASS ☒ FAIL ☐

FRICTION:	ALT. (FT)	FRICT.	TOL.	ALT. (FT)	FRICT.	TOL.
	1,000		+/-70	20,000		+/-100
	2,000		+/-70	25,000		+/-120
	3,000		+/-70	30,000		+/-140
	5,000		+/-70	35,000		+/-160
	10,000		+/-80	40,000		+/-180
	15,000		+/-90	50,000		+/-250

ACCURACY:

ALT. (FT)	TOL.	READING	+/-	ALT. (FT)	TOL.	READING +/-
-1,000	+/-20			14,000	+/-100	
0	+/-20	0	0	16,000	+/-110	15990 -10
500	+/-20			18,000	+/-120	
1,000	+/-20			20,000	+/-130	19990 -10
1,500	+/-25			22,000	+/-140	
2,000	+/-30			25,000	+/-155	
3,000	+/-30			30,000	+/-180	
4,000	+/-35	3990	-10	35,000	+/-205	
6,000	+/-40			40,000	+/-230	
8,000	+/-60			45,000	+/-255	
10,000	+/-80	9990	-10	50,000	+/-280	
12,000	+/-90					

CORRESPONDENCE TEST (+/- 125 FT)

1K ☒ 3K ☒ 6K ☒

9K ☒ 12K ☒ 15K ☒ 18K ☒ 21K ☒ 25K ☒

HYSTERESIS (+/- 75 FT)
AFTER EFFECT (+/- 30 FT)

50% ☒ 40% ☒ MAX/ALT

PASS ☒
FAIL ☐
FAIL ☐

ALTIMETER (ENCODING) HAS MET ALL REQUIREMENTS OF FAR 43 APP E PARA. (B)

TECHNICIAN: Rod Jimm

ALTIMETER TEST RECORD IAW FAR 43 APPENDIX E PARA.

JET AIR, INC.
GALESBURG,

R.R. 2 BOX 117
IL 61401

MUNICIPAL AIRPORT
CRS NO. JAFR110F

ALTIMETER TEST

SHOP ORDER: SPG-12 1283
CUSTOMER: Univ. of Dubuque
ALT. MFG.: United Inst
P/N: 5934 PD-3
S/N: 473068

DATE: June 3, 2013
TECH: DT
ENCODING: Y (N)
TSO: C106
AD'S: Y (N)

BAROMETRIC SCALE ERROR:
(+/- 25 FT TOLERANCE)

PRESSURE

ALTITUDE

ALTIMETER

IN/HG

FEET

READS

28.10

-1727

-1140

28.50

-1340

-750

29.00

-863

-275

29.50

-392

200

29.92

+

600

30.50

+ 531

1120

30.90

+ 893

1780

30.99

+ 974

1560

PASS ☒
FAIL ☐

CASE LEAK:
(100 FPM MAX)

18,000 FT 5 FPM
PASS ☒ FAIL ☐

FRICTION:	ALT. (FT)	FRICT.	TOL.	ALT. (FT)	FRICT.	TOL.
	1,000	10	+/-70	20,000	50	+/-100
	2,000	10	+/-70	25,000		+/-120
	3,000	10	+/-70	30,000		+/-140
	5,000	20	+/-70	35,000		+/-160
	10,000	30	+/-80	40,000		+/-180
	15,000	40	+/-90	50,000		+/-250

ACCURACY:

ALT. (FT)	TOL.	READING	+/-	ALT. (FT)	TOL.	READING +/-
-1,000	+/-20	-1020	-20	14,000	+/-100	13940 -6
0	+/-20	-10	-10	16,000	+/-110	15940 -6
500	+/-20	490	-10	18,000	+/-120	17940 -6
1,000	+/-20	1010	+10	20,000	+/-130	19940 -6
1,500	+/-25	1510	+10	22,000	+/-140	
2,000	+/-30	2010	+10	25,000	+/-155	
3,000	+/-30	3010	+10	30,000	+/-180	
4,000	+/-35	4000	0	35,000	+/-205	
6,000	+/-40	5980	-20	40,000	+/-230	
8,000	+/-60	7960	-40	45,000	+/-255	
10,000	+/-80	9950	-50	50,000	+/-280	
12,000	+/-90	11930	-70			

CORRESPONDENCE TEST (+/- 125 FT)

1K ☒ 3K ☒ 6K ☒

9K ☒ 12K ☒ 15K ☒ 18K ☒ 21K ☒ 25K ☒

HYSTERESIS (+/- 75 FT)
AFTER EFFECT (+/- 30 FT)

50% ☒ 40% ☒ MAX/ALT

PA ☒
CA ☒
PA ☒

ALTIMETER (ENCODING) HAS MET ALL REQUIREMENTS OF FAR 43 APP E PARA. (B)

TECHNICIAN: Rod Jimm

MAINTENANCE RECORD

DATE	TOTAL TIME IN SERVICE		DESCRIPTION OF THE WORK PERFORMED	AUTHORIZED SIGNATURE, CERTIFICATE TYPE & NUMBER
	HOURS	10ths		
1-2-13	1631.3		Swapped GRS 77 unit with one from N6196P for troubleshooting.	<i>Tiffney Bume</i> AP3527990
7-25-14	2331.7		Swapped GRS 77 unit with N6196P. Removed and re-installed original GRS-77 unit after troubleshooting.	<i>Tiffney Bume</i> AP3527990
8-8-14	2340.3		N6196P.	<i>Tiffney Bume</i> AP3527990

Date: 7/1/2015
Tach/Hobbs: 2218.6



10800 Airport Road
Dubuque, Iowa 52003
Repair station #YQYR343B
1-563-582-1293

1. Performed Altimeter and Static system test. IAW: 14CFR 91.411
 2. Performed Transponder test IAW: 91.411 modes A, C, & S
- All systems found to comply with 14CFR part 43 appendix E & F
Work Order #79542

Name: David M. Farningham

Signed: *David M. Farningham*
Certified Repair Station # YQYR343B

Date 7/1/2015

Aircraft Hours 2218.6

I certify that the altimeter and static system tests required by 14 CFR 91.411 and transponder tests, including data correspondence, required by 91.413, have been performed and found to comply with 14 CFR part 43, appendix E and F.

LH Altimeter Model GDC74A S/N 20605526 Transponder Model GTX-33 S/N 89108384

RH Altimeter Model 5934PD-3 S/N 473068 Transponder Model _____ S/N _____

Encoder/A.D.C. Model _____ S/N _____

The altimeter was tested to 20,000 feet on 7/1/2015.

The transponder was tested on 7/1/2015.

Encoder data correspondence was tested to _____ feet on _____.

Static system leak tested on 7/1/2015.

Signed: *David M. Farningham*

Work Order # 79542

Blue Skies Over Dubuque, Inc.
FAA Repair Station #YQYR343B

AUTHORIZED SIGNATURE,
CERTIFICATE TYPE
& NUMBER

Blue Skies Over Dubuque, Inc.
10800 Airport Road
Dubuque, Iowa 52003
FAA Repair Station YQYR343B

Altimeter Make Garmin
Model GDC744
S/N 20605526

Test Altitude in Feet	Reading	Tolerance +/- (feet)	HYSTERESIS/TEST TOLERANCES Reading	Tolerance (feet)
-1000	+10	20		
0	+10	20	Case leak Test	-10 100
500	0	20	Hysteresis Test	
1000	0	20	First TP..50% of Max	+20 75
1500	-5	25	Hysteresis Test	
2000	0	30	First TP..40% of Max	+10 30
3000	0	30	After Effect	0
4000	0	35		
6000	0	40	Kollsman Window Calibration	
8000	+25	60	Pressure	Altitude
10000	+20	80	Setting in	Difference
12000	0	90	In./Hg.	(feet)
14000	0	100	28.10	-1727
16000	0	110	28.50	-1340
18000	0	120	29.00	-863
20000	-10	130	29.50	-392
22000		140	29.92	0
25000		155	30.50	531
30000		180	30.90	893
35000		205	30.99	974
40000		230	W/O No 79542	Date 7/1/15

Blue Skies Over Dubuque, Inc.
10800 Airport Road
Dubuque, Iowa 52003
FAA Repair Station YQYR343B

Altimeter Make United Instruments
Model 5939PD-3
S/N 473068

Test Altitude in Feet	Reading	Tolerance +/- (feet)	HYSTERESIS/TEST TOLERANCES Reading	Tolerance (feet)
-1000	+20	20		
0	+20	20	Case leak Test	-50 100
500	-20	20	Hysteresis Test	
1000	-10	20	First TP..50% of Max	+30 75
1500	-5	25	Hysteresis Test	
2000	-0-	30	First TP..40% of Max	+20 30
3000	-0-	30	After Effect	+10
4000	-20	35		
6000	-40	40	Kollsman Window Calibration	
8000	-30	60	Pressure	Altitude
10000	-10	80	Setting in	Difference
12000	-90	90	In./Hg.	(feet)
14000	-90	100	28.10	-1727
16000	-80	110	28.50	-1340
18000	-80	120	29.00	-863
20000	-80	130	29.50	-392
22000		140	29.92	0
25000		155	30.50	531
30000		180	30.90	893
35000		205	30.99	974
40000		230	W/O No 79542	Date 7/1/15