THE adlog™ AIRCRAFT MAINTENANCE RECORDKEEPING SYSTEM

AVIONICS MAINTENANCE RECORDS

N55804
Monmouth Area

GARMIN.
FAA UNIT SERVICE REPORT

RMA NUMBER	UNIT NAME	SERIAL NUMBER	UNIT NUMBER
79905710	GNS430W,Blk,Upgd	97131751	011-01060-40

SERVICE START DATE	SERVICE COMPLETION DATE	RETURNED TO SERVICE BY	Service Request Number
5/28/2015	6/1/2015	382	

UNIT DISCREPANCY

WAAS Upgrade

REPAIR SUMMARY

Upgraded unit to include WAAS capability. Repaired the CDU and COM board to correct issues found while upgrading.

Confirmed all applicable hardware modifications are installed. Updated software to the latest version. Aligned unit for optimum performance. Master cleared unit. Unit passes all tests and is operating within normal limits. Unit acquired satellites. OK to return to Service.

The Main and GPS Softwares are at the latest revision. This unit complies with these Service Bulletins 1317, 1461, It is the responsibility of the Installer to verify that the installation complies with the previous listed Service Bulletins.
The following Mod's were installed into this unit under its previous configuration prior to it being upgraded and configuration changed to part number 011-01060-40.
This unit complies with MOD 1 per Garmin's Service Bulletin No. 0019.
This unit complies with MOD 2 per Garmin's Service Bulletin No. 0101.
This unit complies with MOD 3 per Garmin's Service Bulletin No. 0203B.
This unit complies with MOD 4 per Garmin's Service Bulletin No. 0207.
This unit complies with MOD 5 per Garmin's Service Bulletin No. 0211.

This "Certifies that the work specified in block 11/12 was carried out in accordance with EASA Part-145 and in respect to that work the component is ready for release to service under EASA Part-145 Approval Number: EASA.145.5534". The work that was performed on this unit was done to meet the requirements of GNS400W/500W Series WAAS Upgrade Procedure, part number 005-00221-72 and all sections of the Maintenance Manual, part number 190-00364-00 Rev-Q 7/16/2008.
On the Garmin website "garmin.com", you will be able to download and receive more detailed information on the difference between the Classic GNS units and WAAS GNS units. A manual dedicated for the new WAAS GNS series units titled "What's New with the 400W/500W series" is available through http://www.garmin.com/support/userManual.jsp.
For more detailed instructions on the operation of the WAAS GNS 400W500W series, please review the Pilot's Guide for the appropriate units. For your convenience, you will be able to download the Pilot's Guide from the Garmin website. http://www.garmin.com/support/userManual.jsp
Addition to the manuals, you will be able to download the WAAS GNS simulator from the Garmin website as well. Please review the Trainer User Gide for detailed operation instructions on the training simulator.
To receive additional operational information, download the free WAAS Training Video from Garmin website. www.garmin.com
If you have any questions, comments, or need a technical assistance on the GNS series units, please contact Garmin product support specialist at 1-800-800-1020 or e-mail us through Garmin website, www.garmin.com.
Thank You for Choosing Garmin! If you have any questions or concerns please do not hesitate to contact our customer

Warranty Information

1. Approving Civil Aviation Authority/Country: FAA/UNITED STATES	2.	3. Form Tracking Number.
	AUTHORIZED RELEASE CERTIFICATE **FAA Form 8130-3, AIRWORTHINESS APPROVAL TAG**	**RMA 79905710**
4. Organization Name and Address: GARMIN International 1200 E 151st Olathe, KS 66062 Certificate No. G6XR582Y		5. Work Order/Contract/Invoice Number: RMA 79905710

6. Item:	7. Description:	8. Part Number:	9. Quantity:	10. Serial Number:	11. Status/Work:,
1.	GNS430W,Blk,Upgd	011-01060-40	1	97131751	REPAIRED

12. REMARKS: Upgraded unit to include WAAS capability. Repaired the CDU and COM board to correct issues found while upgrading.

Confirmed all applicable hardware modifications are installed. Updated software to the latest version. Aligned unit for optimum performance. Master cleared unit. Unit passes all tests and is operating within normal limits. Unit acquired satellites. OK to return to Service.

The Main and GPS Softwares are at the latest revision. This unit complies with these Service Bulletins 1317, 1461, It is the responsibility of the Installer to verify that the installation complies with the previous listed Service Bulletins.
The following Mod's were installed into this unit under its previous configuration prior to it being upgraded and configuration changed to part number 011-01060-40.
This unit complies with MOD 1 per Garmin's Service Bulletin No. 0019.
This unit complies with MOD 2 per Garmin's Service Bulletin No. 0101.
This unit complies with MOD 3 per Garmin's Service Bulletin No. 0203B.
This unit complies with MOD 4 per Garmin's Service Bulletin No. 0207.
This unit complies with MOD 5 per Garmin's Service Bulletin No. 0211.

This "Certifies that the work specified in block 11/12 was carried out in accordance with EASA Part-145 and in respect to that work the component is ready for release to service under EASA Part-145 Approval Number: EASA.145.5534". The work that was performed on this unit was done to meet the requirements of GNS400W/500W Series WAAS Upgrade Procedure, part number 005-00221-72 and all sections of the Maintenance Manual, part number 190-00364-00 Rev-Q 7/16/2008.
On the Garmin website "garmin.com", you will be able to download and receive more detailed information on the difference between the Classic GNS units and WAAS GNS units. A manual dedicated for the new WAAS GNS series units titled "What's New with the 400W/500W series" is available through http://www.garmin.com/support/userManual.jsp.
For more detailed instructions on the operation of the WAAS GNS 400W500W series, please review the Pilot's Guide for the appropriate units. For your convenience, you will be able to download the Pilot's Guide from the Garmin website. http://www.garmin.com/support/userManual.jsp
Addition to the manuals, you will be able to download the WAAS GNS simulator from the Garmin website as well. Please review the Trainer User Gide for detailed operation instructions on the training simulator.
To receive additional operational information, download the free WAAS Training Video from Garmin website. www.garmin.com
If you have any questions, comments, or need a technical assistance on the GNS series units, please contact Garmin product support specialist at 1-800-800-1020 or e-mail us through Garmin website, www.garmin.com.
Thank You for Choosing Garmin! If you have any questions or concerns please do not hesitate to contact our customer service department at 1-800-800-1020. Please view Garmin's web site at www.garmin.com for any update or product information.

All repaired or replaced GARMIN units have a 90-day warranty or the continuation of the original factory warranty from the original purchase date, whichever is longer.

13a. Certifies the items identified above were manufactured in conformity to:

- ☐ Approved design data and are in condition for safe operation
- ☐ Non-approved design data specified in block 12

14a. ☒ 14 CFR 43.9 Return to Service ☒ Other regulations specified in Block 12

Certifies that unless otherwise specified in block 12, the work identified in Block 11 and described in Block 12 was accomplished in accordance with Title 14, Code of Federal Regulations, part 43 and in respect to that work, the items are approved for return to service.

13b. Authorized Signature	13c Approval/Authorization No.:	14b. Authorized Signature:	14c Approval/Certificate No.:
N / A	N / A		G6XR582Y
13d Name (Typed or Printed)	13e. Date (dd/mmm/yyyy)	14d. Name (Typed or Printed)	14e Date (dd/mmm/yyyy)
N / A	N / A	Tu Nguyen	01 Jun 2015

User/Installer Responsibilities

It is important to understand that the existence of this document alone does not automatically constitute authority to install the aircraft engine/propeller/article.

Where the user/installer performs work in accordance with the national regulations of an airworthiness authority different than the airworthiness authority of the country specified in block 1, it is essential that the user/installer ensures that his/her airworthiness authority accepts aircraft engine(s)/propeller(s)/article(s) from the Airworthiness Authority of the country specified in block 1.

Statements in Block 13a and 14a do not constitute installation certification. In all cases, aircraft maintenance records must contain an installation certification issued in accordance with the national regulations by the user/installer before the aircraft may be flown.

US Department of Transportation
Federal Aviation Administration

MAJOR REPAIR AND ALTERATION
(Airframe, Powerplant, Propeller, or Appliance)

Form Approved OMB No. 2120-0020 11/30/2007

Electronic Tracking Number

For FAA Use Only

INSTRUCTIONS: Print or type all entries. See Title 14 CFR §43.9, Part 43 Appendix B, and AC 43.9-1 (or subsequent revision thereof) for instructions and disposition of this form. This report is required by law (49 U.S.C. §44701). Failure to report can result in a civil penalty for each such violation. (49 U.S.C. §46301(a))

1. Aircraft

Nationality and Registration Mark	Serial No.
N55804	28R-7335291
Make	**Model** / **Series**
PIPER	PA-28R-200

2. Owner

Name *(As shown on registration certificate)*: Monmouth Area Flying Club

Address *(As shown on registration certificate)*: P.O. Box 2414

City: Farmingdale State: N.J.

Zip: 07727 Country: U.S.A.

3. For FAA Use Only

4. Type		5. Unit Identification			
Repair	Alteration	Unit	Make	Model	Serial No.
☐	☑	AIRFRAME	—	*(As described in Item 1 above)*	—
☐	☐	POWERPLANT			
☐	☐	PROPELLER			
☐	☐	APPLIANCE	Type / Manufacturer		

6. Conformity Statement

A. Agency's Name and Address

Name: Three Crown Avionics, Inc

Address: Sussex Airport, 53 Rt. 639

City: Sussex, State: N.J.

Zip: 07461 Country: U.S.A.

B. Kind of Agency

- ☐ U. S. Certificated Mechanic
- ☐ Foreign Certificated Mechanic
- ☑ Certificated Repair Station
- ☐ Certificated Maintenance Organization
- ☐ Manufacturer

C. Certificate No.: TXXR014L

D. I certify that the repair and/or alteration made to the unit(s) identified in item 5 above and described on the reverse or attachments hereto have been made in accordance with the requirements of Part 43 of the U.S. Federal Aviation Regulations and that the information furnished herein is true and correct to the best of my knowledge.

Extended range fuel per 14 CFR Part 43 App. B ☐

Signature/Date of Authorized Individual: June 24 2015

7. Approval for Return to Service

Pursuant to the authority given persons specified below, the unit identified in item 5 was inspected in the manner prescribed by the Administrator of the Federal Aviation Administration and is ☑ Approved ☐ Rejected

BY							
	FAA Flt. Standards Inspector		Manufacturer		Maintenance Organization		Persons Approved by Canadian Department of Transport
	FAA Designee	X	Repair Station		Inspection Authorization		Other *(Specify)*

Certificate or Designation No.: TXXR014L

Signature/Date of Authorized Individual: June 24 2015

FAA Form 337 (10-06)

NOTICE

Weight and balance or operating limitation changes shall be entered in the appropriate aircraft record. An alteration must be compatible with all previous alterations to assure continued conformity with the applicable airworthiness requirements.

8. Description of Work Accomplished
(If more space is required, attach additional sheets. Identify with aircraft nationality and registration mark and date work completed.)

N55804	June 24 2015
Nationality and Registration Mark	Date

Validated that the previous installation of the GNS 430 was installed IAW Garmin Instructions and approved via a FAA stamped field approval documented on FAA form 337 dated 02-10-2006. Verified that this aircraft and all interfaced equipment are covered under the STC AML.

Removed Following Equipment from the Aircraft.
1. Garmin GNS 430 GPS/COM/NAV/ILS Receiver and returned it to Garmin for factory GNS 430W conversion.
2. Garmin GA 56 GPS Antenna.

Installed after Conversion by Garmin the Following Equipment in the Aircraft:
1. Garmin GNS 430W GPS WAAS (TSO-C146a) COM/NAV/ILS Receiver (STC SA01933LA) located at F.S.#.57.0.
2. Garmin A-35 GPS Antenna located at F.S.#. 98.0

The GNS 430W was installed as No.1 NAV/COM using the same tray and wiring as the previous GNS 430 and the existing Garmin GI-106 OBS Indicator. The GNS 430W is left/right information was interfaced with the aircraft's Autopilot System. The GA 35 GPS Antenna was installed on the top of the fuselage at F.S.#. 124.0.
Removed also the Flight Manual Supplement for the Garmin GNS 430 and replaced it with the GNS 430W Flight Manual Supplement .

The installation was performed in accordance with Garmin STC Upgrade Installation Manual Garmin P/N 190-00357-06 Rev. D. (March. 2008). STC SA01933LA as well as with AC 43.13-1B chapter 10, 11, 12, AC 43.13-2A chapter 1, 2, 3 and with AC 20-138B.
The total electrical load is not exceeding 80% of the generated capacity.
EMI and RFI test analyses were performed with no adverse effect on the aircraft system noted.

A copy of Instruction to continued airworthiness Garmin Document 190-00356-65 Rev. A was attached to the Aircraft's maintenance records.

Log Book entry was made this date. Flight test was performed on June 24 2015

Detail of this work is filed at this repair station under Work Order No. 06431.

---------- END ----------

☐ Additional Sheets Are Attached

Instructions for Continued Airworthiness
GDL 84/88 Part 23 AML STC
as installed in

PIPER PA-28R-200

(Make and Model Airplane)

Reg. No. N55804 **S/N** 28R 7335291

Dwg. Number:
190-01310-01 Rev. 3

Garmin International, Inc.
1200 E. 151st Street
Olathe, Kansas 66062 USA

Record of Revision

Rev.	Date	Description of Change
1	11/21/2012	Initial Release
2	1/7/2015	Updated to add GDL 84
3	10/22/2015	Update to add Flight Stream

AUTHORIZED RELEASE CERTIFICATE

FAA Form 8130-3, AIRWORTHINESS APPROVAL TAG

1. Approving Civil Aviation Authority/Country:	2.	3. Form Tracking Number.
FAA/UNITED STATES		RMA 82639879
4. Organization Name and Address: GARMIN International 1200 E 151st Olathe, KS 66062 Certificate No. G6XR582Y		5. Work Order/Contract/Invoice Number: RMA 82639879

6. Item:	7. Description:	8. Part Number:	9. Quantity:	10. Serial Number:	11. Status/Work:
1.	GTX327	011-00490-00	1	83715384	REPAIRED

12. REMARKS: Confirmed the return issue. Repaired CDU to correct return issue. Confirmed all applicable hardware modifications are installed. Updated software to the latest version. Aligned unit for optimum performance. Unit passes all tests and is operating within normal limits. OK to return to Service.

This unit complies with this Service Bulletin 0809, . It is the responsibility of the Installer to verify that the installation complies with the previous listed Service Bulletins.

This "Certifies that the work specified in block 11/12 was carried out in accordance with EASA Part-145 and in respect to that work the component is ready for release to service under EASA Part-145 Approval Number: EASA.145.5534". The work that was performed on this unit was done to meet the requirements of all sections of the maintenance manual part number 190-00364-00 Rev- AL, Revision Date 5/22/2015.

Thank You for Choosing Garmin! If you have any questions or concerns please do not hesitate to contact our customer service department at 1-800-800-1020. Please view Garmin's web site at www.garmin.com for any update or product information.

All repaired or replaced GARMIN units have a 90-day warranty or the continuation of the original factory warranty from the original purchase date, whichever is longer.

13a. Certifies the items identified above were manufactured in conformity to:

- ☐ Approved design data and are in condition for safe operation
- ☐ Non-approved design data specified in block 12

14a. ☒ 14 CFR 43.9 Return to Service ☒ Other regulations specified in Block 12

Certifies that unless otherwise specified in block 12, the work identified in Block 11 and described in Block 12 was accomplished in accordance with Title 14, Code of Federal Regulations, part 43 and in respect to that work, the items are approved for return to service.

13b. Authorized Signature	13c Approval/Authorization No.:	14b. Authorized Signature:	14c Approval/Certificate No.:
N / A	N / A		G6XR582Y
13d Name (Typed or Printed	13e. Date (dd/mmm/yyyy)	14d. Name (Typed or Printed)	14e Date (dd/mmm/yyyy)
N / A	N / A	Wathana Syhavong	22 Sep 2015

User/Installer Responsibilities

It is important to understand that the existence of this document alone does not automatically constitute authority to install the aircraft engine/propeller/article.

Where the user/installer performs work in accordance with the national regulations of an airworthiness authority different than the airworthiness authority of the country specified in block 1, it is essential that the user/installer ensures that his/her airworthiness authority accepts aircraft engine(s)/propeller(s)/article(s) from the Airworthiness Authority of the country specified in block 1.

Statements in Block 13a and 14a do not constitute installation certification. In all cases, aircraft maintenance records must contain an installation certification issued in accordance with the national regulations by the user/installer before the aircraft may be flown.

FAA Form 8130-3 (02-14)

* Installer must cross-check eligibility with applicable technical data.

GARMIN

FAA UNIT SERVICE REPORT

RMA NUMBER	UNIT NAME	SERIAL NUMBER	UNIT NUMBER
82639879	GTX327	83715384	011-00490-00

SERVICE START DATE	SERVICE COMPLETION DATE	RETURNED TO SERVICE BY	Service Request Number
9/22/2015	9/22/2015	1304	

UNIT DISCREPANCY

IDENT key is INOP. Test, repair, and update as needed.

REPAIR SUMMARY

Confirmed the return issue. Repaired CDU to correct return issue. Confirmed all applicable hardware modifications are installed. Updated software to the latest version. Aligned unit for optimum performance. Unit passes all tests and is operating within normal limits. OK to return to Service.

This unit complies with this Service Bulletin 0809, . It is the responsibility of the Installer to verify that the installation complies with the previous listed Service Bulletins.

This "Certifies that the work specified in block 11/12 was carried out in accordance with EASA Part-145 and in respect to that work the component is ready for release to service under EASA Part-145 Approval Number: EASA.145.5534". The work that was performed on this unit was done to meet the requirements of all sections of the maintenance manual part number 190-00364-00 Rev- AL, Revision Date 5/22/2015.

Thank You for Choosing Garmin! If you have any questions or concerns please do not hesitate to contact our customer service department at 1-800-800-1020. Please view Garmin's web site at www.garmin.com for any update or product information.

FAA Approved Product

This appliance has been repaired and inspected in accordance with current regulations of the Federal Aviation Administration and is approved for return to service. The details of the repairs to this appliance are on file at this repair station under the above listed RMA Number

Wathana Sykavong **FAA Certified Repairman**	9/22/2015 **Date**	3158270 **Certificate Number**

FAA Repair Station Number
G6XR582Y

Warranty Information

THE adlog™ AIRCRAFT MAINTENANCE RECORDKEEPING SYSTEM

AVIONICS MAINTENANCE RECORDS

(including transponder biennial checks)

Log No. 1

Aircraft Registration No. N55894

Aircraft Manufacturer Piper

Model PA 28R-200

Serial No. 28R-7335291

EQUIPMENT LISTING

List all installed avionics, autopilot and flight director equipment.

	Mfg.	Model	Serial No.
1.			
2.			
3.			
4.			
5.			
6.			
7.			
8.			
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10.			
11.			
12.			
13.			
14.			
15.			
16.			
17.			
18.			
19.			
20.			

AEROTECH PUBLICATIONS INC.
www.adlog.com
PO BOX 1359 / SOUTHOLD, NY 11971-0965
(631) 765-9375

MID-CONTINENT INSTRUMENTS CO., INC.
9400 E 34TH ST. NORTH
WICHITA, KS 67226
FAA CRS OL2R061L

WRK0057967

May 13, 2005 Page: 1

Final Work Order

Nomenclature	Serial No	Location	RMA #	AR #
ALTIMETER 20K	74727	KS	RMA000000072327	10654
Manufacturer's Part No. 5934P-A.56	Model No. C661071-0101		Quantity 1	
Manufacturer UNITED	Customer Item Number		Service Period	
Customer OCEAN AIRE	Customer PO No. 55804		Customer Reference No.	

Reason For Removal
PLEASE REPAIR

Work Instructions
Warranty Repair_____ Overhaul_____ Return As Is_____
Functional Test_____ Repair X Modified _____

Special Instructions

Preliminary Inspection
Seals Broken No Cover Damaged No Hidden Damage Inspection Required No
Nameplate Damaged No Finding

Preliminary Inspector BOBBY PHILLIPS Date May 13, 2005

Failure Analysis
STICKY, OUT OF CALIBRATION. Customer Complaint Verified

Previous Service Bulletins Installed: AD 74-24-13.

Work Accomplished
REPAIRED AS NECESSARY, TESTED TO MFG. SPEC.
CERTIFIED TO FAR PARTS 91.411 & 43, APPENDIX E.

I.A.W Manual # TM-5934 REV 1 7/1/02
Outgoing Service Bulletins AD 74-24-13.

Technician CAROLYN DURHAM Date May 17, 2005

In-Process Inspector PHONG NGUYEN Date May 17, 2005

FINAL INSPECTOR RANDALL FERGUSON Date May 18, 2005

Parts Used

Part Number	Part Description	Quantity
34-1-24	GASKET	1
4011557	O RING	1
1114-301507	POINTER A.57	1

MID-CONTINENT INSTRUMENTS

Altimeter Scale
Correction Card

Altimeter S/N 7472[illegible]
Part No. 5934P-A-S[illegible]

Reference Altitude in Ft.	Altimeter Reads	Reference Altitude in Ft.	Altimeter Reads
-1000	-1000	14000	14000
0	-5	15000	15020
500	495	16000	16040
1000	990	18000	18085
1500	1490	20000	20100
2000	1995	22000	
3000	2995	25000	
4000	4000	30000	
5000	5005	35000	
6000	6005	40000	
8000	8000	45000	
10000	10000	50000	
12000	11985		

Tested By: BIP633 Inspector: [illegible] Date: 5/18/05

MID-CONTINENT INSTRUMENT CO. INC.
9400 E. 34th St. North
Wichita, KS 67226 USA
Tel 800-821-1212 • 316-630-0101
FAA Repair Station # OL2R061L

MID-CONTINENT INSTRUMENTS WEST
16320 Stagg Street
Van Nuys, CA 91406 USA
Tel 800-345-7599 • 818-786-0300
FAA Repair Station # OL2D061L

inent Instrument Co.
34th Street North
, KS 67226 1-800-821-1212
Certified Repair Station No. OL2 R061L

FAR PART 43 APPENDIX-E
COMPLIANCE REPORT

± et)	Friction Tol. (Feet)	FRICTION ALTMTR. READING NO VIB.	FRICTION FINAL READING W / VIB.	FRICTION ± TOL. (Feet)	CHG. PT. OF ENCODER Tol. 125 ' WITH REF. TO ALTIMETER IND.
20	70	-975	-1,000	25	
20	70	-30	-5	25	
20	70	470	495	25	
20	70	970	990	20	
25	70	1,470	1,490	20	
30	70	1,970	1,995	25	
30	70	2,975	2,995	20	
35	70	3,975	4,000	25	
35	70	4,980	5,005	25	
40	70	5,975	6,005	30	
60	70	7,965	8,000	35	
80	80	9,970	10,000	30	
90	80	11,950	11,985	35	
100	80	13,965	14,000	35	
100	90	14,975	15,020	45	
110	90	16,000	16,040	40	
120	90	18,030	18,085	55	
130	100	20,050	20,100	50	

* Took Readings after 50,000 feet

Test type: Standard Altimeter Tested Through: 20,000 '

W.O. Number: 57967

Part Number: 5934P-A.56

Serial Number: 74727

1. VISUAL EXAMINATION: Good
2. POSITION ERROR (Tol. ± 20 '): 10
3. CASE LEAK (Tol. ± 100 ' / min.): -10
4. HYSTERESIS (Tol. ± 75 '):

	ALTIMETER READS UP	ALTIMETER READS DOWN
40% – 8,000 '	8,000 '	8,020 '
50% – 10,000 '	10,000 '	10,025 '

5. AFTER EFFECT (Tol. ± 30 '): 5
6. BAROMETRIC SCALE ERROR (Tol. ± 25 ')

MB	IN HG	FEET	RANGE	READINGS
951.6	28.10	-1,727	(-1,702 / -1,752)	-1,725
965.1	28.50	-1,340	(-1,315 / -1,365)	-1,350
982.0	29.00	-863	(-838 / -888)	-870
999.0	29.50	-392	(-367 / -417)	-400
1013.2	29.92	0	(-25 / +25)	-
1032.8	30.50	+531	(+506 / +556)	530
1046.4	30.90	+893	(+868 / +918)	895
1049.4	30.99	+974	(+949 / +999)	975

7. Lighting: No
8. Alerter Output: No
9. Check for Master Altimeter: No

9a. Calibrated: No

DATE: 05/18/05

FINAL INSPECTION – CERTIFIED REPAIRMAN

AIRFRAME TIME IN SERVICE	AVIONICS TIME IN SERVICE	DESCRIPTION OF WORK PERFORMED— SIGNATURE & CERTIFICATE NO. OF PERSON PERFORMING WORK

Altimeter Log Book Entry

Reg # 55804 Date 05-2-05
Make Pipe. Model PA28R-200
S/N 7335251 Tach/Hobbs 251.1
The Aircrat Static System was tested and was found to meet FAR 91.411. The ~~United 5934PD-3 Pilot~~ Altimeter Make/Model United 5934PD-3
S/N 389804 was tested to 20,000 ft and was found to meet FAR PART 43 Appendix E.
Details of this inspection are on file at this Repair Station under WO# 0253
FAA Cert. #OF1R372K
Signed William Gelland
Ocean Aire, P.O.Box 1245
Toms River, NJ 08754

Transponder Log Book Entry

Reg # 55804 Date 5-2-05
Make Piper Model PA 28R-200
S/N 7335251 Tach/Hobbs 251.1
The Transponder Make/Model Garmin GTX327011-004000
S/N 83715384 was tested and inspected as required by FAR 91.413. Tested to specs using IFR Ramp tester ATC 601.
Details of this inspection are on file at this Repair Station under WO# 0253
FAA Cert. #OF1R372K
Signed William Gelland
Ocean Aire, P.O.Box 1245
Toms River, NJ 08754

6-3-05 Tach 0270.4

Removed LOWER ALTIMETER. INSTALLED ORIGINAL, REPAIRED ALTIMETER, P/N 5934PM-56, S/N 74727
LEAK checked OK FAR 91.411.

Donald H Ginsberg
OF1R372K

DATE 2006	AIRFRAME TIME IN SERVICE	AVIONICS TIME IN SERVICE	DESCRIPTION OF WORK PERFORMED— SIGNATURE & CERTIFICATE NO. OF PERSON PERFORMING WORK
2-10-06			

Date: 02-10-06 Reg. N55804 Model: Piper 28R-200 S/N:28R-7335291 Tach. 0515.3

Removed King KX-170B NAV/COM King KI-208 NAV Indicator, Garmin GPS 150XL GPS Receiver, Bendix ADF-T-12C Receiver and Model 551RL ADF Indicator.
Installed Garmin GNS 430 GPS/COM/VOR/ILS and GI 106A VOR/ILS Indicator.
The GNS 430 was installed below the existing King KA-134 Audio Panel and connected to the GI 106A OBS Indicator, as well as to the existing Centery II Autopilot.
The GNS 430 was also connected to the existing Garmin GTX 327 Transponder.
The installation was performed i.a.w. Garmin installation manuals 190-00140-02 Rev. Q (Oct. 5).and 190-0180-00 Rev.B (July 99), as well as with AC 43.13-1B chapter 10, 11, 12, AC 43.13-2A chapter 1, 2, 3. and AC 20-138. The Century Flight System's drawing No. 63D358 was also used as reference. Performed data correspondence test to 18,000 feet and found the error not exceeding 125 feet.
Filed Form 337 with ICA this date.
Updated the Weight and Balance as well as the Equipment List.
A decal " GPS LIMITED TO VFR USE ONLY " was attached on the instrument panel.
Details of this work is filed at Three Crown Avionics Inc. C.R.S. # TXXR014L under Work Order No. 04671.

Authorized Signature for Three Crown Avionics, Inc. C.R.S.# TXXR014L

Attention: Do not Strip or Paint the GPS Antenna.

Transponder Log Book Entry

Reg # 55804 Date 6-1-07
Make PIPER Model PA-28R-200
S/N 7335291 Tach ~~Hours~~ 865.6
The Transponder Make/Model GARMIN GTX327
S/N 83715384 was tested and inspected as required by FAR 91.413. Tested to specs using IFR Ramp tester ATC 601.
Details of this inspection are on file at this Repair Station under WO# 2129
FAA Cert. #0F1R372K
Signed Donald H Greenberg
Ocean Aire, P.O.Box 1245
Toms River, NJ 08754

DATE	TOTAL TIME IN SERVICE	AVIONICS TIME IN SERVICE	DESCRIPTION OF WORK PERFORMED— SIGNATURE & CERTIFICATE NO. OF PERSON PERFORMING WORK
6-1-07	TACH 8654		Removed ALTIMETER 5935P-A56 SN 74727 INSTALLED SERVICEABLE REPLACED ALTIMETER PN 5934P-A56 SN 73672 TESTED SYSTEM FOUND TO MEET SPECS IN FAR 91.411. Donald H Ginsberg OF IR 372K

Date: 06-20-06 Reg. N55804 Model: Piper PA-28R-200 S/N 28R-7335291

Certification of Garmin GNS 430 GPS Receiver for IFR operation under Class A1.
Prepared flight manual supplement for the installed Garmin GNS 430 GPS Receiver.
Flight test was performed by the customer/pilot and ground by the inspector of Three Crown Avionics, Inc.
Filed Form 337 with ICA this date.
Details of this work is filed at Three Crown Avionics, Inc. C.R.S. # TXXR014L under Work Order No. 04676.

Authorized Signature for Three Crown Avionics, Inc. C.R.S. # TXXR014L

Page No. _____

DATE	AIRFRAME TIME IN SERVICE	AVIONICS TIME IN SERVICE	DESCRIPTION OF WORK PERFORMED— SIGNATURE & CERTIFICATE NO. OF PERSON PERFORMING WORK

PENN AVIONICS, INC. 1200 Ward Ave West Chester, PA 19380 VFAR714K
LOG ID# 3691 08-March-2008 WO# 13235/1 AC TT 1832.7
N55804 S/N 28R-7335291 PIPER PA-28R-200

Pg 1 / 1

**** ITEM # 13235-1 PM 8000B Installation ****
DISCREPANCY: PM 8000B Installation
ACTION: Removed existing King KA134 audio panel and PMA1000II intercom. Installed in same location, factory new PS Engineering PMA8000 audio panel. Interface audio panel to existing audio system. Install new pilot & co-pilot & rear seat headphone jacks. Ramp test all audio sources. Installed unit IAW AC43:13-1A, Chapter 2, Section 3, Par97. Chapter 11, Section 1, Section 2 PAR 424,425,426,427,428,429,430. Chapter 13, Chapter 15 section 1 PAR 750,754. Section 3,4,5,6. The AC-43:13 2A, Chapter 1 PAR 1,2,3 Chapter 2 PAR 21,22,23,27, and PS eng PMA8000 manual 200-890-0000. Calculate new Weight and balance.

Chirs Vinciguerro 3/6/2008
CRS VFAR714K Chirs Vinciguerro Date

I certify that the following tests were performed by
Avionics One, Inc. Repair Station # X1VR985N,
In accordance with FAR Part 91.411, 91.413
and 43 Appendix E & F.

Date 17JUN09 Work Order # 3370
Aircraft Tail Number N 55804
Aircraft Make PIPER Model PA28R-200
Aircraft Serial Number 28R-7335291
Performed by TIMCO
Altimeter tested to 20,000 ft.
Static system tested
Transponder Model # GTX327 Serial # 83715384
(AOI Form 10)

First in Flight
FIF-016B, CRS# QFR278Y

A/C Make: Piper Model: PA28R-200
N# N55804 S/N 28R-7335291
Tach/hobbs _____ Date 10/18/12

This Aircrafts altimeter system and altitude reporting equipment have been inspected and tested in accordance with FAR 43 Appendix E Para. a,b,c to comply with FAR 91.411

Pilot altimeter P/N 5934P-1 S/N 470409
Co-Pilot altimeter P/N _____ S/N _____
Item P/N _____ S/N _____
Item P/N _____ S/N _____
Components above were tested to: 14,000'
Authorized signature: _____
W/O 558040807 12

First in Flight
CRS#Q6FR278Y

A/C Make: Piper Model: PA28R-200
N# N55804 S/N: 28R-7335291
Tach/Hobbs 1799.3 4842.6 Date: 10/18/12
This aircraft's ATC transponder systems has been inspected and Tested
in accordance with FAR 43 appendix F to comply with FAR91.413
Transponder P/N: _____ S/N _____
Transponder P/N: _____ S/N _____
Authorized signature: _____ W/O 558040807 12

FIF-018

FIRST IN FLIGHT
1717hwy34, Hangar 31, Farmingdale, N.J. 07727
ALTIMETER CALIBRATION CARD

STANDARD ALTITUDE FT.	ALTIMETER READS	STANDARD ALTITUDE FT.	ALTIMETER READS
-1,000	-1020	14,000	13,980
0	0	16,000	
500	500	18,000	
1,000	1,010	20,000	
1,5000	1,510	22,000	
2,000	2,010	25,000	
3,000	3,000	30,000	
4,000	4,000	35,000	
6,000	6,000	40,000	
8,000	7,970	43,000	
10,000	9,980	50,000	
12,000	11,970		

INSTR P/N: 5934P-1 SERIAL NO: 470409

Page No. _____

DATE	AIRFRAME TIME IN SERVICE	AVIONICS TIME IN SERVICE

LV Avionics 600 Hayden Circle Allentown, PA 18109
PH: 610-264-1430 CRS# J6MR763X WO# 1359
Customer Monmouth Flying CSN# 55804
Installed Garmin software update as per service bulletin
0844 Dated 11/14/2008
Model GA5430
P/N 011-00280-10 S/N 97131751
No necessary paperwork changes required. ✓
Necessary paperwork changes supplied. ___
Signed _____ Date 4/25/2013

Altitude	Pressure HG	Tol. +/- ft
-1000	31.018	20
0	29.921	20
500	29.385	20
1000	28.856	20
1500	28.335	25
2000	27.821	30
3000	26.817	30
4000	25.842	35
6000	23.978	40
8000	22.225	60
10000	20.577	80
12000	19.029	90
14000	17.577	100
16000	16.216	110
18000	14.942	120
20000	13.750	130
22000	12.636	140
25000	11.104	155
30000	8.885	180
35000	7.041	205
40000	5.538	230
45000	4.355	255
50000	3.425	280

RMED—
ERFORMING WORK

1335291

acture

LV Avionics certifies the (✓) #1 transponder (-) #2 transponder test required by FAR 91:413 were performed in accordance with and comply to Appendix F part 43. (✓) Data test performed IAW FAR 91:411. The aircraft is returned to service. CSR# J6MR763X

Signature . 4/25/2013 Date . 1359 Work Order .

LV Avionics certifies that the Altimeter/Altimeters, ADC, altitude reporting and static system tests required by FAR part 91:411 was performed in accordance with and comply to Appendix E of part 43. The (✓) #1, (-) #2, (-) #3 altimeter(s) are certified for a maximum altitude of 20,000 . N55804

Altimeter #1:
P/N 5934P03 S/N 73672 Make United .
Altimeter #2:
P/N NA S/N NA Make NA .
Altimeter #3:
P/N NA S/N NA Make NA .

The aircraft is returned to service. CRS# J6MR763X
Signature Date: 4/25/2013 WO # 1359 .

Altimeter Log Book Entry
Reg # N55804 Date 4-27-2015
Make Piper Model PA28R-200
S/N 28R-733529/ Tach/Hobbs 2234.7
The Aircraft Static System was tested and was found to meet FAR 91.411. The Pilot Altimeter Make/Model United 5934P-3 S/N 470409 was tested to 20,000 ft. and was found to meet FAR PART 43, Appendix E. Details of this inspection are on file at this Repair Station under WO # 2632
FAA Cert #OF1R372K
Signed William Ballard
Ocean Aire, PO Box 1245, Toms River, NJ 08754

Transponder Log Book Entry
Reg # N55804 Date 4-28-2015
Make Piper Model PA28R-200
S/N 28R-733529/ Tach/Hobbs 2234.7
The Transponder Make Model GTX 327
S/N 83715384 was tested and inspected as required by FAR 91.413. Tested to specs using IFR Ramp tester ATC 601.
Details of this inspection are on file at this Repair Station under WO # 2632
FAA Cert. #OF1R372K
Signed William Ballard
Ocean Aire, PO Box 1245, Toms River, NJ 08754

DATE	AIRFRAME TIME IN SERVICE	AVIONICS TIME IN SERVICE	DESCRIPTION OF WORK PERFORMED— SIGNATURE & CERTIFICATE NO. OF PERSON PERFORMING WORK

6-24-15

Date: 06-24-2015 Reg. N55804 Model: Piper PA-28R-200 S/N: 28R-7335291Tach: 2260.7

Removed Garmin GNS 430 GPS/Com/Nav./ILS, and GA 56 GPS Antenna.
The Garmin GNS 430 was upgraded to a GNS 430W (P/N 011-01060-40) and reinstalled in same tray. The GA 56 GPS Antenna was replaced with a GA 35 GPS Antenna.
The installation was performed i.a.w. Garmin Installation Manuals P/N 190-00356-06 Rev. D. and the STC SA01933LA, as well as with AC 43.13-1B chapter 10, 11, 12, AC 43.13-2A chapter 1, 2, 3 and AC 20-138B
Replaced also the Flight Manual Supplement.
Filed Form 337. No change in Weight & Balance, updated the Equipment List.

Details of this work is filed at Three Crown Avionics Inc. C.R.S. # TXXR014L under Work Order # 06431.

Authorized Signature for Three Crown Avionics, Inc. C.R.S. # TXXR014L _____.

12-18-15

Date: 12-18-2015 Reg. N55804 Model: Piper PA-28R-200 S/N: 28R-7335291 Tach: 2423.1

Installed Garmin GDL-88 Automatic Dependent Surveillance broadcast system on the equipment shelf at F.S.# 188.0, a RAMI av-74 Blade Antenna on the bottom of the fuselage at F.S.# 209.0 and an Northstar Aviation Mod.C serializer.
The GDL-88 was hooked up to the AV-74 Antenna and interfaced with the following existing equipment: Garmin GNS 430 WAAS GPS, GTX 327 Transponder and also with the existing Trans-Cal SSD120-3A Encoder through Mod.C Serializer, the GDL-88 Audio was connected to the existing Audio Panel.
The installation was performed i.a.w. Garmin Installation Manuals P/N 190-01310-00 Rev. 8. and the STC SA02119SE, as well as with AC 43.13-2A chapter 2 Section 202.
Updated the Weight and Balance as well as the Equipment list.
A Form 337 for this work was filed on this date.
Details of this work is filed at Three Crown Avionics Inc. C.R.S. # TXXR014L under Work Order # 06541.

Authorized Signature for Three Crown Avionics, Inc. C.R.S. # TXXR014L _____.

Page No. _____

DATE	AIRFRAME TIME IN SERVICE	AVIONICS TIME IN SERVICE	DESCRIPTION OF WORK PERFORMED— SIGNATURE & CERTIFICATE NO. OF PERSON PERFORMING WORK

Altimeter Log Book Entry
Reg # N55804 Date 6/1/2017
Make Piper Model PA-28R-200
S/N 28R-7335291 Tach/Hobbs 470.1
The Aircraft Static System was tested and was found to meet FAR 91.411. The Pilot's Altimeter Make/Model United 5934P-3 S/N 470409 was tested to 20,000 ft. and was found to meet FAR PART 43, Appendix E.
Details of this inspection are on file at this Repair Station under WO # 17-3865
FAA Cert #OF1R372K
Signed R E Nutt
Ocean Aire, PO Box 1245, Toms River, NJ 08754

Transponder Log Book Entry
Reg # N55804 Date 6/1/2017
Make Piper Model PA-28R-200
S/N 28R-7335291 Tach/Hobbs 470.1
The Transponder Make Model Garmin GTX 327 S/N 83715384 was tested and inspected as required by FAR 91.413. Tested to specs using IFR Ramp tester ATC 601.
Details of this inspection are on file at this Repair Station under WO # 17-3865
FAA Cert. #OF1R372K
Signed R E Nutt
Ocean Aire, PO Box 1245, Toms River, NJ 08754

Altimeter Log Book Entry
Reg # N55804 Date 6-12-2019
Make Piper Model PA28R-200
S/N 28R-7335291 Tach/Hobbs 2797.6
The Aircraft Static System was tested and was found to meet FAR 91.411. The Pilot Altimeter Make/Model United 5934P-3 S/N 470409 was tested to 20,000 ft. and was found to meet FAR PART 43, Appendix E.
Details of this inspection are on file at this Repair Station under WO # 19-4615
FAA Cert #OF1R372K
Signed William Ballard
Ocean Aire, PO Box 1245, Toms River, NJ 08754

Transponder Log Book Entry
Reg # N55804 Date 6-12-2019
Make Piper Model PA28R-200
S/N 28R-7335291 Tach/Hobbs 2797.6
The Transponder Make Model Garmin GTX 327 S/N 83715384 was tested and inspected as required by FAR 91.413. Tested to specs using IFR Ramp tester ATC 601.
Details of this inspection are on file at this Repair Station under WO # 19-4615
FAA Cert. #OF1R372K
Signed William Ballard
Ocean Aire, PO Box 1245, Toms River, NJ 08754

OCEAN AIRE CRS # OF1R372K ALTIMETER TEST FORM ATS REVISED: 8/16/2017

FAR 43 APPENDIX E ALTIMETER TEST

AIRCRAFT # N N55804	ALTIMETER P/N: United 5934P-3	ADC P/N: N/A
WORK ORDER # 19-4615	ALTIMETER S/N: 470409	ADC S/N: N/A
DATE: 6-12-2019	MAX ALTITUDE PER POH: 20,000	

REFERENCE ALTIMETER SETTING	ALT TOL +/- (IN FEET)	AIRCRAFT SYSTEM TEST READINGS ACTUAL	ALT REPORTING INTEGRATION TEST * (PRESSURE ONLY)	FRICTION TOL +/- (IN FEET)
-1000	20	-1000		
0	20	0	0	
500	20	500		
1000	20	1000		
1100				(70) 15
1500	20	1500	1100	
1800				
2000	30	2010	1800	
3000	30	3010		(70) 15
4000	35	4010		(70) 10
5000				
6000	40	6000		(70) 15
6800			6800	
8000	60	8000		
10000	80	10000		(80) 15
12000	90	12000		
14000	100	14000		
14800			14860	
15000				(90) 20
16000	110	16020		
18000	120	18060		
20000	130	20120		(100) 20
22000	140	N/A		
25000	155			(120) N/A
30000	160			(140)
30800			N/A	
35000	205			(160)
40000	230			(180)
45000	255			
50000	280			(250)

		ACTUAL
CASE LEAK	+/- 100'	-8
HYSTERISIS, 50%	+/- 75'	-1
HYSTERISIS, 40%	+/-75'	+1
AFTER EFFECT	+/- 30'	+2

BARO SCALE ERROR		-25	ACTUAL	+25
28.1	(-1727)	-1752	-1720	-1702
28.5	(-1340)	-1365	-1340	-1315
29.0	(-863)	-888	-860	-838
29.5	(-392)	-417	-390	-367
29.92	(0)	-25	0	+25
30.5	(531)	+506	530	+556
30.9	(893)	+868	910	+918
30.99	(974)	+949	990	+999

	INITIAL
ENSURE FREEDOM FROM ENTRAPPED MOISTURE AND RESTRICTIONS	WB
SYSTEM LEAK WITHIN LIMITS FAR 23.1325 OR 25.1325	WB
STATIC PORT HEATER WORKS (IF APPLICABLE)	N/A
ENSURE NO ALTERATIONS OR DEFORMATIONS OF A/C SURFACE WOULD AFFECT THE STATIC AIR RELATIONSHIP	WB

***PRESSURE ALTITUDE REPORTING MUST BE WITHIN +/- 125' OF A/C ALTIMETER**

NOTES:

	INITIAL
STICKER AFFIXED TO INSTRUMENT	WB
DATE 6-12-2019	SIGNATURE
TECHNICIAN	Vikki Ballard
SUPERVISOR	
INSPECTOR	Vikki Ballard

Ocean Aire

CRS # OF1R372K

ATCRBS Transponder worksheet

Date: 6-12-2019

Work Order: 19-4615

Aircraft N: N55804

Type: PA28R-200

#1 Xpndr

#1 p/n: GTX 327

#1 s/n: 83715384

#2 Xpndr

#2 p/n:

#2 s/n:

Preliminary Inspection by: WB

TEST	TOLERANCE	#1	#2
Radio Reply Frequency	1090 ± 3 Mhz	Mhz 1089.12	Mhz
Radio Frequency Peak Output Power	Min. Class 1A: 125 Watts Class 1B: 70 Watts Max. 500 Watts	Watts 138	Watts
Receiver Sensitivity	-73 ± 4 dbm Additional 3 dB loss allowed w/ portable test equipment measuring a radiated signal	-75 dbm	dbm
MTL Difference	Mode 3A and Mode C receiver does not exceed 1 dbm	0.0 db	db
Suppression Interrogation Rate 235 ± 5 Hz PRF at 4 db higher than MTL	Maximum of 3 replies per second when P2 = P1. Minimum of 212 replies per second when P2 is 9 db less than P1	Pass ~~Fail~~ Pass Fail	Pass Fail Pass Fail
Altitude Reporting ON OFF	Only F1 and F2 transmitted	Pass ~~Fail~~ Pass ~~Fail~~	Pass Fail Pass Fail
Identification	Check ID annunciation is displayed for approx. 20 seconds.	Pass ~~Fail~~	Pass Fail

Form Instructions:
Technician will use ATCRBS Transponder test box and insert results for each test in appropriate Box and/or indicate "Pass/Fail" as required.

N/A will be inserted where item is not applicable.

Technician: William Bollard

Inspector: William Bollard

Ocean Aire

CRS # OF1R372K

ATCRBS Transponder worksheet

Date: 5/20/2021

Work Order: 21-5846

Aircraft N: N55804

Type: Piper PA-28R-200

#1 Xpndr Garmin GTX 327

#1 p/n: 011-00490-00

#1 s/n: 83715384

#2 Xpndr

#2 p/n: N/A

#2 s/n: N/A

TEST	TOLERANCE	#1	#2
Radio Reply Frequency	1090 ± 3 Mhz	1090.23 Mhz	N/A Mhz
Radio Frequency Peak Output Power	Min. Class 1A: 125 Watts Class 1B: 70 Watts Max. 500 Watts	235 Watts	Watts
Receiver Sensitivity	-73 ± 4 dbm Additional 3 dB loss allowed w/ portable test equipment measuring a radiated signal	-72.6 dbm	dbm
MTL Difference	Mode 3A and Mode C receiver does not exceed 1 dbm	-0.1 db	db
Suppression Interrogation Rate 235 ± 5 Hz PRF at 4 db higher than MTL	Maximum of 3 replies per second when P2 = P1. Minimum of 212 replies per second when P2 is 9 db less than P1	(Pass) Fail (Pass) Fail	Pass Fail Pass Fail
Altitude Reporting ON OFF	Only F1 and F2 transmitted	(Pass) Fail (Pass) Fail	Pass Fail Pass Fail
Identification	Check ID annunciation is displayed for approx. 20 seconds.	(Pass) Fail	Pass (Fail) ✓

Form Instructions:
Technician will use ATCRBS Transponder test box and insert results for each test in appropriate Box and/or indicate "Pass/Fail" as required.

N/A will be inserted where item is not applicable.

Preliminary Inspection by: BR

No defects noted.

Technician: Robert Ritter

Inspector: Robert Ritter

OCEAN AIRE CRS # OF1R372K ALTIMETER TEST FORM ATS REVISED: 8/16/2017

FAR 43 APPENDIX E ALTIMETER TEST	ALTIMETER P/N: United 5934P-3	ADC P/N: N/A
AIRCRAFT # N N55804	ALTIMETER S/N: 470409	ADC S/N: N/A
WORK ORDER # 21-5846		
DATE: 5/20/2021	MAX ALTITUDE PER POH: 20,000	

REFERENCE ALTIMETER SETTING	ALT TOL +/- (IN FEET)	AIRCRAFT SYSTEM TEST READINGS ACTUAL	ALT REPORTING INTEGRATION TEST * (PRESSURE ONLY)	FRICTION TOL +/- (IN FEET)
-1000	20	-1000		
0	20	18	0	
500	20	505		
1000	20	1016		(70)20
1100			1100	
1500	20	1505		
1800			1800	
2000	30	2020		(70)25
3000	30	3020		(70)25
4000	35	4012		
5000				(70)35
6000	40	6000		
6800			6800	
8000	60	7997		
10000	80	9996		(80)35
12000	90	12005		
14000	100	14010		
14800			14800	
15000				(90)40
16000	110	16035		
18000	120	18080		
20000	130	20115		(100)60
22000	140	N/A		
25000	155			(120) N/A
30000	160			(140)
30800			N/A	
35000	205			(160)
40000	230			(180)
45000	255			
50000	280			(250)

		ACTUAL
CASE LEAK	+/- 100'	-12
HYSTERISIS, 50%	+/- 75'	+24
HYSTERISIS, 40%	+/-75'	+13
AFTER EFFECT	+/- 30'	+6

BARO SCALE ERROR		-25	ACTUAL	+25
28.1	(-1727)	-1752	-1705	-1702
28.5	(-1340)	-1365	-1330	-1315
29.0	(-863)	-888	-845	-838
29.5	(-392)	-417	-382	-367
29.92	(0)	-25	18	+25
30.5	(531)	+506	539	+556
30.9	(893)	+868	915	+918
30.99	(974)	+949	983	+999

	INITIAL
ENSURE FREEDOM FROM ENTRAPPED MOISTURE AND RESTRICTIONS	BR
SYSTEM LEAK WITHIN LIMITS FAR 23.1325 OR 25.1325	BR
STATIC PORT HEATER WORKS (IF APPLICABLE)	BR
ENSURE NO ALTERATIONS OR DEFORMATIONS OF A/C SURFACE WOULD AFFECT THE STATIC AIR RELATIONSHIP	BR

*PRESSURE ALTITUDE REPORTING MUST BE WITHIN +/- 125' OF A/C ALTIMETER

NOTES:

	INITIAL
STICKER AFFIXED TO INSTRUMENT	BR
DATE 5/20/2021	SIGNATURE
TECHNICIAN	Brett Kittle
SUPERVISOR	
INSPECTOR	Brett Kittle

OCEAN AIRE CRS # OF1R372K ALTIMETER TEST FORM ATS REVISED: 8/16/2017

FAR 43 APPENDIX E ALTIMETER TEST	ALTIMETER P/N: 5934P-3 (United)	ADC P/N: N/A
AIRCRAFT # N N55804	ALTIMETER S/N: 470409	ADC S/N: N/A
WORK ORDER # 23-6906		
DATE: 5/24/2023	MAX ALTITUDE PER POH: 20,000	

REFERENCE ALTIMETER SETTING	ALT TOL +/- (IN FEET)	AIRCRAFT SYSTEM TEST READINGS ACTUAL	ALT REPORTING INTEGRATION TEST * (PRESSURE ONLY)	FRICTION TOL +/- (IN FEET)
-1000	20	-1010		
0	20	18	0	
500	20	502		
1000	20	1008		(70)25
1100			1100	
1500	20	1505		
1800			1800	
2000	30	2020		(70)25
3000	30	3020		(70)30
4000	35	4010		
5000				(70)30
6000	40	6000		
6800			6800	
8000	60	7995		
10000	80	9980		(80)40
12000	90	12000		
14000	100	14015		
14800			14800	
15000				(90)40
16000	110	16040		
18000	120	18080		
20000	130	20085		(100)45
22000	140	N/A		
25000	155			(120) N/A
30000	160			(140)
30800			N/A	
35000	205			(160)
40000	230			(180)
45000	255			
50000	280			(250)

		ACTUAL
CASE LEAK	+/- 100'	-16
HYSTERISIS, 50%	+/- 75'	+20
HYSTERISIS, 40%	+/-75'	+8
AFTER EFFECT	+/- 30'	+2

BARO SCALE ERROR		-25	ACTUAL	+25
28.1	(-1727)	-1752	-1718	-1702
28.5	(-1340)	-1365	-1330	-1315
29.0	(-863)	-888	-855	-838
29.5	(-392)	-417	-380	-367
29.92	(0)	-25	18	+25
30.5	(531)	+506	530	+556
30.9	(893)	+868	898	+918
30.99	(974)	+949	985	+999

	INITIAL
ENSURE FREEDOM FROM ENTRAPPED MOISTURE AND RESTRICTIONS	BR
SYSTEM LEAK WITHIN LIMITS FAR 23.1325 OR 25.1325	BR
STATIC PORT HEATER WORKS (IF APPLICABLE)	BR
ENSURE NO ALTERATIONS OR DEFORMATIONS OF A/C SURFACE WOULD AFFECT THE STATIC AIR RELATIONSHIP	BR

***PRESSURE ALTITUDE REPORTING MUST BE WITHIN +/- 125' OF A/C ALTIMETER**

	INITIAL
STICKER AFFIXED TO INSTRUMENT	BR
NOTES:	DATE 5/24/2023 — SIGNATURE
	TECHNICIAN — Brett Nitt
	SUPERVISOR
	INSPECTOR — Brett Nitt

Ocean Aire

CRS # OF1R372K

ATCRBS Transponder worksheet

Date: 5/24/2023

Work Order: 23-6906

Aircraft N: N55804

Type: Piper PA-28R-200

#1 Xpndr Garmin GTX 327

#1 p/n: 011-00490-00

#1 s/n: 83715384

#2 Xpndr

#2 p/n: N/A

#2 s/n: N/A

Preliminary Inspection by: BR

No defects noted.

TEST	TOLERANCE	#1	#2
Radio Reply Frequency	1090 ± 3 Mhz	Mhz 1088.80	Mhz N/A
Radio Frequency Peak Output Power	Min. Class 1A: 125 Watts Class 1B: 70 Watts Max. 500 Watts	155 Watts	Watts
Receiver Sensitivity	-73 ± 4 dbm Additional 3 dB loss allowed w/ portable test equipment measuring a radiated signal	-76.7 dbm	dbm
MTL Difference	Mode 3A and Mode C receiver does not exceed 1 dbm	0.0 db	db
Suppression Interrogation Rate 235 ± 5 Hz PRF at 4 db higher than MTL	Maximum of 3 replies per second when P2 = P1. Minimum of 212 replies per second when P2 is 9 db less than P1	Pass Fail Pass Fail	Pass Fail Pass Fail
Altitude Reporting ON OFF	Only F1 and F2 transmitted	Pass Fail Pass Fail	Pass Fail Pass Fail
Identification	Check ID annunciation is displayed for approx. 20 seconds.	Pass Fail	Pass Fail

Form Instructions:
Technician will use ATCRBS Transponder test box and insert results for each test in appropriate Box and/or indicate "Pass/Fail" as required.

N/A will be inserted where item is not applicable.

Technician: Brett Nutt

Inspector: Brett Nutt

DATE	AIRFRAME TIME IN SERVICE	AVIONICS TIME IN SERVICE	DESCRIPTION OF WORK PERFORMED— SIGNATURE & CERTIFICATE NO. OF PERSON PERFORMING WORK

Altimeter Log Book Entry
Reg # N55804 Date 5/20/2021
Make Piper Model PA-28R-200
S/N 28R-7335291 Tach/~~Hobbs~~ 3066.1
The Aircraft Static System was tested and was found to meet FAR 91.411. The aircraft Altimeter Make/Model United 5934P-3
S/N 470409 was tested to 20,000 ft. and was found to meet FAR PART 43, Appendix E.
Details of this inspection are on file at this Repair Station under WO # 21-5846
FAA Cert #OF1R372K
Signed Bt Mitt
Ocean Aire, PO Box 1245, Toms River, NJ 08754

Transponder Logbook Entry
Reg # N55804 Date: 5/20/2021
Make: Piper Model: PA-28R-200
S/N: 28R-7335291 Tach/~~Hobbs~~: 3066.1
The transponder Make/Model Garmin GTX 327
S/N 83715384 was tested and inspected as required By FAR 91.413. Tested to specs using……..
IFR ATC 601 — IFR ATC 6000 ✓
601 Cal Date — 6000 Cal Date 9/3/2020
Details of this inspection re on file at this Repair Station under WO # 21-5846
FAA Cert. # OF1R372K
Signed Bt Mitt
Ocean Aire, PO Box 1245, Toms River, NJ 08754

Page No. _____

DATE	AIRFRAME TIME IN SERVICE	AVIONICS TIME IN SERVICE	DESCRIPTION OF WORK PERFORMED— SIGNATURE & CERTIFICATE NO. OF PERSON PERFORMING WORK

Altimeter Logbook Entry
Reg # N55804 Date: 5/24/2023
Make: Piper Model: PA-28R-200
S/N: 28R-7335291 Tach/~~Hobbs~~: 3413.0
The aircraft static system was tested and was found to meet FAR 91.411. The Aircraft altimeter Make/Model United 5934P-3
S/N 470409 was tested to 20,000 feet and found to meet FAR Part 43, Appendix E.
Details of this inspection are on file at this Repair Station under WO # 23-6906
FAA Cert. # OF1R372K
Signed Bt Nitt
Ocean Aire, PO Box 1245, Toms River, NJ 08754

Transponder Logbook Entry
Reg # N55804 Date: 5/24/2023
Make: Piper Model: PA-28R-200
S/N: 28R-7335291 Tach/~~Hobbs~~: 3413.0
The transponder Make/Model Garmin GTX 327
S/N 8371538 4 was tested and inspected as required By FAR 91.413. Tested to specs using.....
IFR ATC 601 _____ IFR ATC 6000 ✓
601 Cal Date _____ 6000 Cal Date 9/29/2022
Details of this inspection re on file at this Repair Station under WO # 23-6906
FAA Cert. # OF1R372K
Signed Bt Nitt
Ocean Aire, PO Box 1245, Toms River, NJ 08754

List the product name, serial number and date of purchase for all Garmin products.
Keep this document for your records.

N804
2-10-06

product	serial number	purchase date
Garmin GNS 430	010-00139-11	97131751
Garmin GA 56	010-10040-01	59415061
Garmin GI 106A	013-00049-00	L05-11637