

N47815 #3

 *The Standard*  
**AIRCRAFT LOG**

ASA-SA-2

FAA Form 8130-3

## Airworthiness Approval Tag

### User/Installed Responsibilities

It is important to understand that the existence of this document alone does not automatically constitute authority to install the part/component/assembly.

Where the user/installer work in accordance with the national regulations of an Airworthiness Authority is 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 parts/components/assemblies from the Airworthiness Authority of the country specified in Block 1.

Statements in Block 14 and Block 19 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.

The FAA Form 8130-3 and JAA Form One are equivalent.  
Other countries such as Canada, also have equivalent acceptable documents.

  
**AUTOPILOTS**  
**CENTRAL** INC.

YEAR:	RECORDING TACH TIME	TODAYS FLIGHT	TOTAL TIME IN SERVICE	Description of Inspections, Tests, Repairs and Alterations Entries must be endorsed with Name, Rating and Certificate Number of Technician or Repair Facility. (See back pages for other specific entries.)
DATE				

## PRIESTER AVIATION SERVICES, INC

PAL-WAUKEE AIRPORT, WHEELING IL

N47815, 5/15/2001, 4896.54 LT TACH, 4911.83 RT TACH, W/O 49154

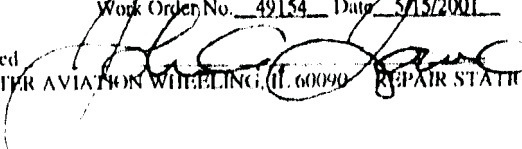
### AIRFRAME LOG ENTRY

Complied with AD 2001-08-01 on JanAero fuel pressure regulator / shutoff valves IAW JanAero S/B A-107 and by visual inspection. Removed heater fuel pressure regulator / shutoff valve Jan Aero P/N 231004-7.5 Piper P/N 492-228, MFR date 4/76 and installed mew pressure regulator / shutoff valve P/N 492-228, MFR date 5/01. Function and leak checked ok.

-----END-----

The aircraft ~~airframe, engine, propeller, appliance or component identified above~~ was repaired and inspected in accordance with current manufacturer's instructions and in accordance with Aviation Regulation Part 43 and is approved for return to service as per these requirements. With respect to work performed pertinent details of the repair are on file at this repair station under

Work Order No. 49154 Date 5/15/2001

Signed   
PRIESTER AVIATION WHEELING, IL 60090 REPAIR STATION # PRIR248H

YEAR:	RECORDING TACH TIME	TODAYS FLIGHT	TOTAL TIME IN SERVICE	Description of Inspections, Tests, Repairs and Alterations Entries must be endorsed with Name, Rating and Certificate Number of Technician or Repair Facility. (See back pages for other specific entries.)
DATE				

**AIRFRAME LOGBOOK ENTRY**

Model: PA34 200T    S/N: 34 7870004    Reg #: N47815    ATT: 4913.0    Hobbs: 2501.9

*Removed #2 CDI model GI 106A p/n 013-00049 11 s/n B21227 and installed warranty exchange, new condition GI 106A p/n 013-00049 11 s/n M20231. Function test of repaired system: nominal.-END*

The Avionics component system identified above was repaired and inspected in accordance with current manufacturer's instructions, FAR 43.161 and 2A and is approved for return to service as per those requirements. With respect to work performed, more pertinent details of this repair are on file at this FAA Repair Station under WORK ORDER # 49354

**PRIESTER AVIATION**  
 Delwaukee Municipal Airport  
 Wheeling, Illinois, USA  
 FAA Repair Station PRR2480

Signed

*Jack R. Skogel*

Date: June 21, 2001

|            |            |            |

YEAR:	RECORDING TACH TIME	TODAYS FLIGHT	TOTAL TIME IN SERVICE	Description of Inspections, Tests, Repairs and Alterations Entries must be endorsed with Name, Rating and Certificate Number of Technician or Repair Facility. (See back pages for other specific entries.)
DATE				

**AIRFRAME LOGBOOK ENTRY**

MODEL: PA34 2001      REG: N47815      A.T.T.: N/A      HOBBS: 2,501.9      TACH: N/A  
S/N: 34-7870004      LDGS: N/A      L ENG: 4,897.76      R ENG: 4,913.00

*Removed: Edo Aire / Mitchell Altimatec III autopilot with electric trim.*

*Installed: S TEC System 60 2 2 axis Autopilot system.*

*See revised weight & balance, equipment list, FAA form 337, FAA approved S TEC 60 2 Flight Manual Supplement and S TEC System 60 Autopilot POH for further information. END*

*New Aircraft Empty Weight: 3174.00*

*New Aircraft Center of Gravity: 89.38*

*New Aircraft Useful Load: 1395.00*

*New Aircraft Empty Moment: 283689.60*

The Avionics installation identified above was accomplished and inspected by me in accordance with current manufacturer's instructions (AC 43.13-1, AC 43.13-1B and ZA) and is approved for return to service as per the accompanying. With respect to work performed, more pertinent details of this repair are on file at the FAA Repair Station under WORK ORDER # 48180

Signed:

*Jack R. Skogel*

Date: June 26, 2001

**PRIESTER AVIATION**  
Palwaukee Municipal Airport  
Wheeling, Illinois, USA  
FAA Repair Station PHR2481

YEAR:	RECORDING	TODAYS	TOTAL	Description of Inspections, Tests, Repairs and Alterations
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**PRIESTER AVIATION SERVICES, INC**  
**PAL-WAUKEE AIRPORT, WHEELING IL**

N47815, 8/9/2001, 4910.46 ACFT, 766.37 LT TTTSR, 874.81 RT TTTSR, 1430.73 LT TTTSR, 1445.73 RT TTTSR,  
713.9 HEATER HOBB, 4910.46 LT TACH, 4925.58 RT TACH, W/O 49718

**AIRFRAME LOG ENTRY**

Complied with an Annual inspection of this Airframe in accordance with an approved form and the manufacturer's maintenance manual. Inspected electric door seal motor that was previously disabled and found still disabled. Performed landing gear functional check, no defects found at this time. C/W FAR 91.207(d) on the ELT by visual and functional check and found to be in airworthy condition at this time, next inspection due 8/2002. C/W one time AD 99-14-01 on operation in severe icing conditions by installation of a copy of the AD in both the limitations section and general section of the POH. Installed vacuum air filter's, next replacement due 5410.46 Act. Removed right main tire S/N 61032127 and installed new 6.00x6 8 ply G.Y.E.S. II tire S/N 23630033 Reused inner tube. Serviced and leak checked ok. Removed stabilator and balance tube assembly for inspection, cleaned, primed, and painted balance tube. Re-installed stabilator and rigged, function check ok. Fabricated and installed fuel quantity placards at filler caps. Installed new gasket on left fuel tank inboard sender unit, leak checked ok. Fabricated and installed new stop plate for alternate air door on left engine, function check ok. Removed and inspected nose gear steering roller guide and hardware, no defects found, re-installed and torqued.

-----END-----

I certify that this ( AIRCRAFT ENGINE / PROPELLER ) has been inspected in accordance with a ANNUAL inspection and was determined to be in airworthy condition with respect to the work performed. Pertinent details of this inspection are on file at this agency under work order No. 49718

Date 8/9/2001 Signed [Signature]  
PRIESTER AVIATION, WHEELING, IL 60090 REPAIR STATION # PR124811



YEAR:	RECORDING TACH TIME	TODAYS FLIGHT	TOTAL TIME IN SERVICE	Description of Inspections, Tests, Repairs and Alterations Entries must be endorsed with Name, Rating and Certificate Number of Technician or Repair Facility. (See back pages for other specific entries.)
DATE				

**AIRFRAME LOGBOOK ENTRY**

MODEL: PA 34 2001      REG: N47815      A.T.T.: N/A      HOBBS: 2519.5      TACH: N/A  
S/N: 34 7870004      LDGS: N/A      L ENG: 4912.70      R ENG: 4927.81

*Removed remote loaner D.G. model KG 102A p/n 060 0015 00 s/n 11825 U22227 and installed original, repaired serviceable condition KG 102A p/n 060 0015 00 s/n U22227. Function test of repaired system: nominal. END*

The Avionics component system identified above was repaired and inspected in accordance with current manufacturer's instructions, FAR 43 AC 43.11-1B and 2A and as approved for return to service as per these requirements. With respect to work performed, more pertinent details of this repair are on file at the FAA Repair Station under WORK ORDER # 50047

**PRIESTER AVIATION**  
Palawan Municipal Airport  
Winning, Brevard, FLA  
FAA Repair Station P00024BH

Signed: *Paul R. Skogel*

Date: September 20, 2001





YEAR:	RECORDING TACH TIME	TODAYS FLIGHT	TOTAL TIME IN SERVICE	Description of Inspections, Tests, Repairs and Alterations Entries must be endorsed with Name, Rating and Certificate Number of Technician or Repair Facility. (See back pages for other specific entries.)
DATE				

**AIRFRAME LOGBOOK ENTRY**

MODEL: PA 34 2001      REG: N4781U      A.T.T.: N/A      HOBBS: 2579.5      TACH: 4927.8  
S/N: 34 7870004      LDGS: N/A      LENG: N/A      R-ENG: N/A

Repaired ground wiring for instrument panel lights. Removed remote D.G. model KG 102A p/n 060 0015 00 s/n U22227 and installed serviceable condition loaner KG 102A p/n 060 0015 00 s/n 11825.  
Function test of repaired system: nominal. END

The following equipment systems identified above were repaired and inspected in accordance with current manufacturer's instructions and approved for return to service as per those requirements. With respect to work performed, more pertinent details of this repair are on file at this FAA Repair Station under WORK ORDER # 49933

**PRIESTER AVIATION**  
Palwaukee Municipal Airport  
Wheeling, Illinois, USA  
FAA Repair Station PR02484

Signed: *Jack R. Stajel*

Date: August 31, 2001

YEAR:	RECORDING TACH TIME	TODAYS FLIGHT	TOTAL TIME IN SERVICE	Description of Inspections, Tests, Repairs and Alterations Entries must be endorsed with Name, Rating and Certificate Number of Technician or Repair Facility. (See back pages for other specific entries.)
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**AIRFRAME LOGBOOK ENTRY**

MODEL: PA34-200T	REG: N47815	A.T.T.: N/A	HOBBS: 2541.5	TACH: N/A
S/N: 34-7870004		LDGS: N/A	L-ENG: 4833.35	R-ENG: 4948.26

Removed: 3M WX-1000 Stormscope System consisting of:  
 WX-1000 Processor p/n 78 8060 5723 4 s/n UWP12902556;  
 WX 1000 Stormscope Display p/n 78 8051-9170-3 s/n UWD12902556;  
 WX 1000 Stormscope Antenna p/n 78 8051-9200 8 s/n UWA12902556.

Installed: New condition Goodrich WX 500 Stormscope System consisting of:  
 WX 500 Processor p/n 805 11500 001 s/n 80880;  
 NY 163 Stormscope Antenna p/n 805 10930 001 s/n 80799.

See FAA approved form 337, Goodrich WX 500 Pilot's Guide, and revised weight & balance / equipment list dated 01/17/02 for further information. END

The Avionics component(s) / system(s) identified above is / are  REPAIRED and INSPECTED /  INSTALLED and INSPECTED in accordance with current manufacturer's instructions: FAR 43, with reference to AC43 13 1B & 2A; and is approved for return to service as per those requirements. With respect to work performed, more pertinent details of this repair are on file at this FAA Repair Station under WORK ORDER # 50720

Signature: *Jack R. Skoczek*  
 Printed Name: Jack R. Skoczek

Date: January 17, 2007

**SIGNATURE FLIGHT SUPPORT**  
 Palwaukee Municipal Airport  
 Wheeling, Illinois, USA  
 FAA Repair Station 001202091

| | | |

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**SIGNATURE FLIGHT SUPPORT  
PAL-WAUKEE AIRPORT, WHEELING IL**

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N47815, 7/19/2002, 4958.34 LT TACH, 4972.96 RT TACH, 2570.7 HOBBS, W/O 60251

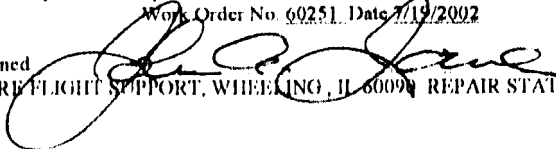
**AIRFRAME LOG ENTRY**

Installed new Pilot's side window P/N 69712-04.

-----END-----

The aircraft ~~airframe~~ engine, propeller, appliance or component identified above was repaired and inspected in accordance with current manufacturer's instructions and in accordance with Aviation Regulation Part 43 and is approved for return to service as per these requirements with respect to work performed. Pertinent details of the repair are on file at this repair station under

Work Order No. 60251, Date 7/19/2002

Signed   
SIGNATURE FLIGHT SUPPORT, WHEELING, IL 60090 REPAIR STATION # UD21D209L

**Aircraft Record** General Information Log # 3

**Manufacturer** Piper **Model** PA34-200T  
**Serial** 34-7870004 **Registration Number** N47815  
**Date of Manufacture**

**Engine(s) currently installed:**

<b>Manufacturer</b>	<b>Model</b>	<b>Serial</b>
<b>Manufacturer</b>	<b>Model</b>	<b>Serial</b>

**Propeller(s) currently installed:**

<b>Manufacturer</b>	<b>Model</b>	<b>Serial</b>	<b>Serial</b>
<b>HUB Model</b>	<b>Serial</b>	<b>Serial</b>	<b>Serial</b>
<b>Blade Model</b>	<b>Serial</b>	<b>Serial</b>	<b>Serial</b>
<b>Blade Model</b>	<b>Serial</b>	<b>Serial</b>	<b>Serial</b>

YEAR:	RECORDING	TODAYS	TOTAL	Description of Inspections, Tests, Repairs and Alterations
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DATE

**SIGNATURE FLIGHT SUPPORT  
PAL-WAUKEE AIRPORT, WHEELING IL**

N47815, 9/3/2002, 4964.92 ACFT, 820.83 LT ETTSFR, 4979.50 RT ETTSN, 1485.19 LT PTTSOH, LT PTTSN UNKNOWN,  
1499.65 RT PTTSOH, 4979.50 RT PTTSN, 729.7 HEATER HOBBS, WO-02-0020

**AIRFRAME LOG ENTRY**

Performed an ANNUAL inspection of this AIRFRAME. C/W FAR 91.207(d) ELT inspection and found airworthy at this time. Next inspection due 9/2003. Installed new deice lead P/N 4E1967-1 on right propeller; function checked ok. Relocated deice lead on left propeller to prevent protruding from the spinner. Removed corrosion from both engine mounts and spot painted. Removed glue and reattached forward baggage door seal with adhesive. Complied with recurring AD 96-20-07 on Jansero heaters by performing decay test and found to be serviceable at this time; next inspection due at 829.7 Heater Hobb or 9/2004. Note: Pressure switch was replaced with new style 6/99 and no longer applies. Replaced burn't out instrument lamps as required. Installed new bulb in left aft reading lamp. Installed 2 new instrument inline pressure filters P/N 1J4-6. Stop drilled cracks and installed large area washer on both left and right engine right rear engine baffles. Retorqued left engine vacuum pump exhaust fitting. Re-installed right wing to fuselage fairing seal. C/W recurring Piper S/B 856 on stabilator attach fittings and found serviceable at this time. next inspection due 9/2003. Charged main battery. Reattached vertical seat adjustment lever on right front seat; function checked ok. Retorqued vertical seat adjustment lever on pilots seat; function checked ok. Installed fiberglass repair on inboard side of both main gear doors and painted.

-----END-----

I certify that this AIRCRAFT / ENGINE / PROPELLER ) has been inspected in accordance with a ANNUAL inspection and was determined to be in airworthy condition with respect to the work performed. Pertinent details of this inspection are on file at this agency under work order No. WO-02-0020

Date 9/3/2002 Signed   
SIGNATURE FLIGHT SUPPORT, WHEELING, IL 60090 REPAIR STATION # UD2102091



YEAR:	RECORDING TACH TIME	TODAYS FLIGHT	TOTAL TIME IN SERVICE	Description of Inspections, Tests, Repairs and Alterations Entries must be endorsed with Name, Rating and Certificate Number of Technician or Repair Facility. (See back pages for other specific entries.)
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**AIRFRAME LOGBOOK ENTRY**

MODEL: PA34-200T	REG: N47815	A.T.T.: N/A	HOBBS: 2584.1	TACH: N/A
S/N: 34-7870004		LDGS: N/A	L-ENG: N/A	R-ENG: N/A

*Removed loaner Honeywell KG-102A Directional Gyro P/N 060-0015-00 S/N 11825 and installed overhauled condition KG-102A Directional Gyro P/N 060-0015-00 S/N U22227.*

*Function check of repaired system: Nominal. -END-*

The Avionics component(s) / system(s) identified above is / are:  **REPAIRED and INSPECTED** /  **INSTALLED and INSPECTED** in accordance with current manufacturer's instructions; FAR 43; with reference to AC43.13-1B & 2A; and is approved for return to service as per those requirements. With respect to work performed, more pertinent details of this repair are on file at this FAA Repair Station under WORK ORDER #AV 02 0016

Signature:   
Printed Name: Richard Wongjen

Date: October 2, 2002

**SIGNATURE FLIGHT SUPPORT**  
Palwaukee Municipal Airport  
Wheeling, Illinois, USA  
FAA Repair Station 00202091

1. Approving National Aviation Authority/Country:  
**FAA/UNITED STATES**

# AUTHORIZED RELEASE CERTIFICATE

FAA Form 8130-3, AIRWORTHINESS APPROVAL TAG

GZKZA001

4. Organization Name and Address:

**Duncan Aviation/Lincoln Airport/Lincoln, NE 68524**

5. Work Order Contract Invoice Number:  
**GZKZA**

6. Item:	7. Description:	8. Part Number:	9. Eligibility *	10. Quantity:	11. Serial Batch Number:	12. Status Work:
001	DIRECTIONAL GYRO	060-0015-00	N/A	001	U22227	Over-hauled

**13. Remarks:**

CUSTOMER: PALWAUKEE SERVICE CENTER LLC

Discrepancy: Flag usually in view.

Preliminary Findings: Bench checked unit, opened, and inspected. Found flag timing circuit is out of alignment causing flag to not pull out of view in manufacturer's specifications. Rotor is loose and is noisy on startup and rundown. Rotor being loose could be causing the flag timing circuit to be delayed. Highly recommend the unit being overhauled.

Corrective Action: Overhauled unit, and replaced defective parts. Cleaned, aligned and calibrated unit. Function tested unit per manufacturer's maintenance manual specifications.

TECHNICIAN: STEVE ALDER

This document constitutes a signed copy of the work order.

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

- Approved design data and are in a condition for safe operation.
- Non-approved design data specified in Block 13.

19.  14 CFR 43.9 Return to Service  Other regulation specified in Block 13

Certifies that unless otherwise specified in Block 13, the work identified in Block 12 and described in Block 13 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.

15. Authorized Signature:

16. Approval/Authorization No.:

20. Authorized Signature:

21. Approval Certificate No.:

**JGVRL94F**

17. Name (Typed or Printed):

18. Date (m/d/y):

22. Name (Typed or Printed):

23. Date (m/d/y):

**JERRY L. BREWER**

**10/01/02**

### User/Installer Responsibilities

It is important to understand that the existence of this document alone does not automatically constitute authority to install the part component assembly. 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 parts components assemblies from the airworthiness authority of the country specified in Block 1.

Statements in blocks 14 and 19 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.

**PALWAUKEE SERVICE CENTER, LLC**  
 PAL-WAUKEE AIRPORT, WHEELING IL.

N47815    2/20/03    4983.68 LT TACH    4998.04 RT TACH    WO-03-0397    AF LOG

REMOVED AND REPLACED LEFT STABILATOR TIP WITH NEW P# G95620-07 (GLOBE MFG)  
 AFTER FITTING AND PAINTING AS REQUIRED. OK. -----END-----

THE AIRCRAFT, AIRFRAME, ENGINE, PROPELLER, APPLIANCE OR COMPONENT IDENTIFIED ABOVE WAS REPAIRED AND INSPECTED IN ACCORDANCE WITH CURRENT MANUFACTURERS  
 INSTRUCTIONS AND IN ACCORDANCE WITH AVIATION REGULATIONS PART 43.9, AND IS APPROVED FOR RETURN TO SERVICE AS PER THESE REQUIREMENTS WITH RESPECT TO WORK  
 PERFORMED PERTINENT DETAILS OF THE REPAIR ARE ON LINE AT THIS REPAIR STATION UNDER WORK ORDER NO. WO-03-0397 DATE 2/20/03  
 SIGNED: *[Signature]* PSC - WHEELING, IL 60090 REPAIR STATION # UPWR481X

THE FOLLOWING ALTIMETER SYSTEM AND ALTITUDE REPORTING EQUIPMENT TESTS  
 AND INSPECTIONS AS REQUIRED BY FAR 91.411 IAW FAR 43, APPENDIX "E" HAVE BEEN  
 PERFORMED:

PARA (A)	PARA (B)	PARA (C)
✓	✓	✓
ALT. PIN <u>5934R-1800</u>	<u>73871</u>	TESTED TO <u>20,000</u> FT
SIGNATURE <u>[Signature]</u> DATE <u>2/21/03</u> CRS <u>1672580L</u>		
GARY JET CENTER • 8401 INDUSTRIAL HIGHWAY, • GARY, INDIANA 46406		

ATC TRANSPONDER TESTS AND INSPECTIONS AS REQUIRED BY FAR 91.413 IAW FAR 43,  
 APPENDIX "F", HAVE BEE PERFORMED:

PIN <u>GTX-327</u>	SN <u>83703491</u>
SIGNATURE <u>[Signature]</u> DATE <u>2/21/03</u> CRS <u>1672580L</u>	
GARY JET CENTER • 8401 INDUSTRIAL HIGHWAY, • GARY, INDIANA 46406	



N 47815 Model 5934P-156

S/N 73871 Date 7/24/03

### ALTIMETER CORRECTION CHART

Altimeter Reads	L	R	Altimeter Reads	L	R
-1000	-990		12000	12020	
0	+5		14000	14030	
500	515		16000	16060	
1000	1000		18000	17990	
1500	1500		20000	15985	
2000	2000		22000		
2500	<del>2500</del>		25000		
3000	3000		30000		
4000	4000		35000		
6000	6005		40000		
8000	8010		45000		
10000	10030		50000		

YEAR:	RECORDING TACH TIME	TODAYS FLIGHT	TOTAL TIME IN SERVICE	Description of Inspections, Tests, Repairs and Alterations Entries must be endorsed with Name, Rating and Certificate Number of Technician or Repair Facility. (See back pages for other specific entries.)
DATE				

→ **GARY JET CENTER**

5401 Industrial Hwy., Gary, IN 46406 (219) 944-1210 Fax (219) 944-8212

Date: 12/5/03

AFTT: 5022.84 Hobbs: 2641

N47815

Performed a 100 Hour/ANNUAL Inspection in accordance with Piper Seneca II Service Manual, Table III-1. Replaced ELT battery (due 6/05), repaired broken and missing fasteners on left engine cowl. Repaired tail cone fairing. Repositioned parking brake inlet line to stop chaffing on aileron chain. Replaced damaged nose wheel half. Replaced bolt in stabilizer trim. C/W Ad 82-27-03. I certify that this aircraft has been inspected in accordance with an ANNUAL INSPECTION and was determined to be in an airworthy condition.

Claude C. Jones, Jr.  
IA 337360210

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YEAR:	RECORDING TACH TIME	TODAYS FLIGHT	TOTAL TIME IN SERVICE	Description of Inspections, Tests, Repairs and Alterations Entries must be endorsed with Name, Rating and Certificate Number of Technician or Repair Facility. (See back pages for other specific entries.)
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→ **GARY JET CENTER**

5401 Industrial Hwy., Gary, IN 46606 (219)944-1200 Fax (219)944-8202

DATE 3-1-05

Hobbs: 2671.7

AFTT: 5051.31

N47815

Airframe Log

Performed an ANNUAL INSPECTION in accordance with Piper Seneca II Service Manual, Table III-1 inspection report. Replaced left and right fuel quantity sender gaskets. Replaced aft cabin seat belt bracket. Reshimmed right main landing gear to remove fore and aft play. Replaced nose gear upper drag link bolt. Replaced ELT battery. Complied with the following AD: 2004-21-05 (pressure decay test/pressure switch-Janitrol heater). I certify that this aircraft has been inspected in accordance with an ANNUAL INSPECTION and was determined to be in an airworthy condition.

Claude C. Jones, Jr  
IA337360210

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YEAR:  DATE	RECORDING TACH TIME	TODAYS FLIGHT	TOTAL TIME IN SERVICE	<b>Description of Inspections, Tests, Repairs and Alterations</b> Entries must be endorsed with Name, Rating and Certificate Number of Technician or Repair Facility. (See back pages for other specific entries.)																																				
				<p>THE FOLLOWING ALTIMETER SYSTEM AND ALTITUDE REPORTING EQUIPMENT TESTS AND INSPECTIONS AS REQUIRED BY FAR 01.411 IAW FAR 43, APPENDIX "E" HAVE BEEN PERFORMED: <u>W/O 8682</u></p> <table border="1"> <tr> <td>PARA (A)</td> <td><input checked="" type="checkbox"/></td> <td>PARA (B)</td> <td><input checked="" type="checkbox"/></td> <td>PARA (C)</td> <td><input checked="" type="checkbox"/></td> </tr> <tr> <td>ALT. P/N</td> <td></td> <td>SN</td> <td></td> <td>TESTED TO</td> <td><u>20000 FT</u></td> </tr> <tr> <td colspan="2">SIGNATURE <u>Naveed Shah</u></td> <td colspan="2">DATE <u>8.9.05</u></td> <td colspan="2">CRB <u>Y6WR580L</u></td> </tr> <tr> <td colspan="6">GARY JET CENTER • 8401 INDUSTRIAL HIGHWAY, • GARY, INDIANA 46406</td> </tr> </table> <p>ATC TRANSPONDER TESTS AND INSPECTIONS AS REQUIRED BY FAR 01.413 IAW FAR 43, APPENDIX "F", HAVE BEE PERFORMED:</p> <p>P/N <u>GTX 327</u> SN <u>83703491</u></p> <table border="1"> <tr> <td colspan="2">SIGNATURE <u>Naveed Shah</u></td> <td colspan="2">DATE <u>8.9.05</u></td> <td colspan="2">CRB <u>Y6WR580L</u></td> </tr> <tr> <td colspan="6">GARY JET CENTER • 8401 INDUSTRIAL HIGHWAY, • GARY, INDIANA 46406</td> </tr> </table>	PARA (A)	<input checked="" type="checkbox"/>	PARA (B)	<input checked="" type="checkbox"/>	PARA (C)	<input checked="" type="checkbox"/>	ALT. P/N		SN		TESTED TO	<u>20000 FT</u>	SIGNATURE <u>Naveed Shah</u>		DATE <u>8.9.05</u>		CRB <u>Y6WR580L</u>		GARY JET CENTER • 8401 INDUSTRIAL HIGHWAY, • GARY, INDIANA 46406						SIGNATURE <u>Naveed Shah</u>		DATE <u>8.9.05</u>		CRB <u>Y6WR580L</u>		GARY JET CENTER • 8401 INDUSTRIAL HIGHWAY, • GARY, INDIANA 46406					
PARA (A)	<input checked="" type="checkbox"/>	PARA (B)	<input checked="" type="checkbox"/>	PARA (C)	<input checked="" type="checkbox"/>																																			
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SIGNATURE <u>Naveed Shah</u>		DATE <u>8.9.05</u>		CRB <u>Y6WR580L</u>																																				
GARY JET CENTER • 8401 INDUSTRIAL HIGHWAY, • GARY, INDIANA 46406																																								
SIGNATURE <u>Naveed Shah</u>		DATE <u>8.9.05</u>		CRB <u>Y6WR580L</u>																																				
GARY JET CENTER • 8401 INDUSTRIAL HIGHWAY, • GARY, INDIANA 46406																																								

N47815

Model 5934P AS6

S/N 73871

Date 8-9-05

**ALTIMETER CORRECTION CHART**

Altimeter Reads	L	R	Altimeter Reads	L	R
-1000	-1000		12000	12040	
0	0		14000	14050	
500	500		16000	16060	
1000	1000		18000	18050	
1500	1510		20000	20060	
2000	2010		22000		
2500	2500		25000		
3000	3000		30000		
4000	4010		35000		
6000	6000		40000		
8000	8010		45000		
10000	10030		50000		

YEAR:	RE TA TII
DATE	

## Gary Jet Center

5401 Industrial Hwy., Gary, IN 46406 (219) 944-1210 Fax (219) 944-3212

DATE 1-8-06

Hobbs: 2691.8

N47815

Installed new landing light in right wing tip and installed new aircraft battery p/n G35. Performed ground run and functional check. Ops check normal.

*Robert L. Ahlf*

Robert L. Ahlf  
A&P3741505IA

## FESSLER AVIATION

13342 80 Terrace, Live Oak, FL 32060 386-330-0291

**June 1, 2006**

**Right Eng Tach: 5095.13**

**Left Engine Tach: 5081.47**

**Heater Hobbs: 761.0**

**Hobbs: 2705.8**

**Aircraft Total Time: 5081.47**

Inspected Aircraft with reference to PA-34-200T inspection report Table III-I.

Removed and replaced left wing fuel bladder, in accordance with Piper

PA-34-200T maintenance manual, leak check okay at this time.

**Shannon McQuiston, 2685221, A&P, IA**

*Shannon S. McQuiston*



**June 1, 2006**

**Right Eng Tach: 5095.13**

**Left Engine Tach: 5081.47**

**Heater Hobbs: 761.0**

**Hobbs: 2705.8**

**Aircraft Total Time: 5081.47**

Complied with A/D 2005-13-16:

Installed new nose landing gear: Trunnion bushings 4 each, upper and lower drag link bushings, steering arm center pivot flanged bushing, "bolt" at lower down lock link assembly, 2 each "bolts" at trunnion, 3 each "O rings" and wiper. Installed new bushings and bolts, washer, nuts and cotter pins at nose landing gear upper, center and lower torque links in reference to Piper Seneca II Service Manual Chapter 7-8

Replaced O ring in right brake master cylinder co-pilot position & bled brake system in reference to Piper Seneca II Service Manual Chapter 7-67

Replaced Seals at left and right inboard fuel quantity senders

Replaced left and right main landing gear in reference to Piper Seneca II service manual chapter 7-21 & installed new forward and AFT trunnion bearings in reference to chapter 7-23, operational check good.

Installed new left and right main landing gear tire and tubes in reference to Piper Seneca II service manual chapter 7-48

**Errol J. Terrio, 1920444, A&P**

*Errol J. Terrio*



# FESSLER AVIATION

13342 80 Terrace, Live Oak, FL 32060 386-330-0291

**June 1, 2006**

**Right Eng Tach: 5095.13**

**Left Engine Tach: 5081.47**

**Heater Hobbs: 761.0**

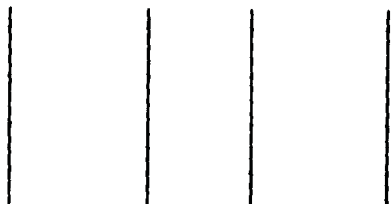
**Hobbs: 2705.8**

**Aircraft Total Time: 5081.47**

I certify that this airframe has been inspected in accordance with an annual recertification and was determined to be in airworthy condition at this time.

**Shannon L. McQuiston, 2685221, IA, A&P**

*Shannon L. McQuiston*



## FESSLER AVIATION

13342 80 Terrace, Live Oak, FL 32060 386 330-0291

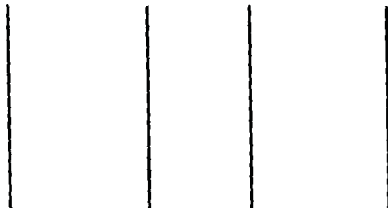
**August 16, 2006**

**Left Engine Tach: 5094.69**

Removed left engine vacuum pump and replaced with s/n 124056, Rapco tracking #124056. Opps check okay at this time.

**Shannon L. McQuiston, 2685221, A&P, IA**

*Shannon L. McQuiston*



YEAR:  DATE	RECORDING TACH TIME	TODAYS FLIGHT	TOTAL TIME IN SERVICE	<b>Description of Inspections, Tests, Repairs and Alterations</b> Entries must be endorsed with Name, Rating and Certificate Number of Technician or Repair Facility. (See back pages for other specific entries.)
				<p>Aircraft Make <u>PIPER</u> Serial # <u>34-7870004 N 47815</u>            Installed the following equipment in existing cutouts in accordance with FAR AC 43.13-1A Chapter 11, Section 2, and manufacturers installation manual.  <u>REMOVED PMA 600M, KLNB8, KNG2 FCD PLAYER SYSTEMS</u>  <u>INSTALLED GARMIN GMA 340 AUDIO PANEL, SYSTEM 60</u>  <u>PITCH TRIM TO EXISTING SYSTEM 60-2 AUTOPILOT, HANDWRITTEN 316</u>            Electrical Wiring fabricated and installed per FAR AC43.13-1A, Chapter 11, Section 3, 4, 5, 7 and manufacturers installation manual.            Aircraft electrical loading in accordance with FAR AC 43.13-1A, Chapter 11, Section 2, Aircraft equipped with a <u>70</u> amp. alternator.            Functional tested the installation per FAR 23.1301 and 23.1431.            Magnetic compass calibration checked per FAR AC 43.13-1A, Chapter 16, Section 5.            Weight and Balance computed.            New Weight and Balance computed.            New Empty Weight <u>3158.35</u> New C.G. <u>89.47</u> IN. New Useful Load <u>1411.45</u> LB.            The equipment and/or components identified above were installed and inspected in accordance with the current Federal Air Regulations and were found airworthy for return to service. Pertinent detail of the repair work are on file at the agency under work order.            NO. <u>5123</u> DATE <u>12-2-2006</u> SIGNED <u>Wm W Kelly</u>            HURON AVIONICS, INC. FOR REPAIR STATION H4NR191N            ST. CLAIR COUNTY INT'L AIRPORT, KIMBALL, MI 48074 RADIO I, II, LIMITED III</p>

YEAR: 2007 DATE	RECORDING TACH TIME	TODAYS FLIGHT	TOTAL TIME IN SERVICE	<b>Description of Inspections, Tests, Repairs and Alterations</b> Entries must be endorsed with Name, Rating and Certificate Number of Technician or Repair Facility. (See back pages for other specific entries.)
1/2	HOBBS: 2755.2			REPLACED FLEX JOINT IN PILOT'S CONTROL COLUMN. RIGGED AILERONS AND RETENSIONED AILERON CABLES. FOR MICHIGAN AVIATION CRS K122956K <i>Stephen K. Gentry</i> ATP 3138695
1/2	HOBBS: 2755.2			REPLACED SHAFT BETWEEN FLEX JOINT AND SPOCKET IN PILOT'S CONTROL COLUMN. FOR MICHIGAN AVIATION CRS K122956K <i>Stephen K. Gentry</i> ATP 3138695

YEAR:  DATE	RECORDING TACH TIME	TODAYS FLIGHT	TOTAL TIME IN SERVICE	<b>Description of Inspections, Tests, Repairs and Alterations</b> Entries must be endorsed with Name, Rating and Certificate Number of Technician or Repair Facility. (See back pages for other specific entries.)
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**MICHIGAN AVIATION CO.**

(248)666-3440 CRS NO. KL2R956K Date 03/08/2007

Reg. No. N47815 Ser. No. 34-7870004


*#665*

WO No. 31954B Hours 2775.8

Removed defective magnetic compass, p/n C-2200-L4-B nsn. Installed NEW magnetic compass, p/n C-2200 s/n 426, with original compensator. -----

-----END-----

The Aircraft/Component Identified above was repaired and inspected in accordance with current Federal Aviation Regulations and is approved for return to service.

CRS NO. KL2R956K 

YEAR: DATE	RECORDING TACH TIME	TODAYS FLIGHT	TOTAL TIME IN SERVICE	<b>Description of Inspections, Tests, Repairs and Alterations</b> Entries must be endorsed with Name, Rating and Certificate Number of Technician or Repair Facility. (See back pages for other specific entries.)
				<p><b>MICHIGAN AVIATION CO.</b>            (248)666-3440 CRS NO. KL2R956K Date <u>03/22/2007</u>            Reg. No. <u>N47815</u> Ser. No. <u>34-7870004</u>            WO No. <u>31962B</u> Hours <u>2790.7</u>            Removed GEM 1200 CHT, s/n 1047 p/n 1200-001, and sent to Insight Instrument Corp. for repair. Reinstalled repaired GEM 1200 CHT, s/n 1047, and ramp tested. Unit functions normal. -----            -----END-----</p> <p>The Aircraft/Component identified above was repaired and inspected in accordance with current Federal Aviation Regulations and is approved for return to service.</p> <p>CRS NO. KL2R956K <i>Michael W. Tulke</i></p>

YEAR:	RECORDING TACH TIME	TODAYS FLIGHT	TOTAL TIME IN SERVICE	Description of Inspections, Tests, Repairs and Alterations Entries must be endorsed with Name, Rating and Certificate Number of Technician or Repair Facility. (See back pages for other specific entries.)
DATE				

7-28-07	AIRCRAFT	TOTAL TIME: 5202.95	PERFORMED ANNUAL INSPECTION (AW PAAD SERVICE MANUAL AND FAR PART 43 APPENDIX D. THE FOLLOWING MAINTENANCE WAS PERFORMED: INSPECTED AIRFRAME AND STRUCTURE. INSPECTED FLIGHT CONTROLS, CABLES, PULLEYS. CHECKED CABLE TENSION. LUBRICATED ALL HINGES, PULLEYS AND JOINT POINTS. CHECKED FUEL STRAINER SCREENS. INSPECTED UNDER INSTRUMENT PANEL. INSPECTED UNDER FLOOR BOARD. INSTALLED NEWLY CALIBRATED CHT GAGE AND NEW CHT PROBE ON RIGHT ENGINE. INSPECTED LANDING GEAR, WASHED AND LUBED. PERFORMED GEAR RETRACTION TEST AND EMERGENCY EXTENSION. INSPECTED WHEELS, TIRES AND BRAKES. RE-PACKED WHEEL BEARINGS. INSTALLED NEW BRAKE LINERS P/N: 066-06200. REPAIR NOSE BAGGAGE LIGHT CIRCUIT. REPAIRED CABIN AIR DUCT AND CABLE. LUBRICATED TACH DRIVE CABLES. INSTALLED NEW WINDSHIELDS P/N: W/G-2038-II-250-LH AND W/G-2038-II-250-RH. CHECKED AND INSPECTED (ET PER FAR 91.207 D AND FOUND GOOD. INSTALLED NEW ELI BATTERY. NEW BATTERY P/N: 00-06-13 DUE REPLACEMENT JULY 2009. CHECKED AD'S THROUGH 2007-15. (U THE FOLLOWING AD'S: 2004-21-05 BY PRESSURE DECAY TEST. 2004-25-16 R1 BY VISUAL INSPECTION OF FUEL REGULATOR SHUT-OFF VALVE. NO OTHER NEW OR RESCUERING AD'S DUE AT THIS TIME. ( CERTIFY THAT THIS AIRCRAFT HAS
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OVER →

1. Approving National Aviation Authority/Country: <b>Transport Canada</b>		2. Form tracking No. (YYMMDD-XNN) <b>070319-501</b>				
<b>AUTHORIZED RELEASE CERTIFICATE</b> TECCA 24-0078						
4. Approved organisation name and address: <b>INSIGHT INSTRUMENTS CORPORATION, 590 INDUSTRIAL DRIVE FORT ERIE, ONTARIO, CANADA, L2A 5M1</b>			5. Work order/Contract/Invoice Number: <b>MICHIGAN AVIATION MI.</b>			
6. Item:	7. Description:	8. Part Number:	9. Eligibility:	10. Quantity:	11. Serial/Batch Number:	12. Status/Work:
1	GEM 1200 Display Unit	1200-001	TSO-C43b	1	1047	REPAIRED
13. Remark <i>Pres. Cert. - Manufacture</i> <i>- Replace plasma display P/N PD2608011-1</i> <i>Test. Cycle (OK)</i>						
14. <del>Certify that the items identified above were manufactured in accordance with:</del> <input type="checkbox"/> Approved design data and are in condition for safe operation. <input type="checkbox"/> Non-approved design data specified in block 13.			15. <input checked="" type="checkbox"/> CAR 571.18 Maintenance release <input type="checkbox"/> Other regulations specified in block 13. Certify that, unless otherwise specified in block 13, the work identified in block 12 and described in block 13 was accomplished in accordance with CAR 571.			
16. Authorized signature <i>N/A</i>		17. Certificate/Approval ref. No. <i>N/A</i>		18. Authorized signature <i>[Signature]</i>		19. Certificate/Approval ref. No. <i>42-0 [Stamp]</i>
20. Name <i>N/A</i>		21. Date (dd/mm/yyyy) <i>N/A</i>		22. Authorized signature <i>[Signature]</i>		23. Date (dd/mm/yyyy) <i>March 30/07</i>
User/Installer Responsibilities						
1 This document does not constitute authority to install the part						
2 Where the installer works in accordance with the national regulations of an airworthiness authority other than the authority specified in block 1, the installer must ensure that the airworthiness authority accepts products or installations from the airworthiness authority specified in block 1						
3 Paragraphs 14 and 19 do not constitute installation certification. In all cases, the aircraft technical record must contain an installation certification issued in accordance with the national regulations of the state of registry, before the aircraft may be flown.						

12/01/2001

\* Installer must cross-check eligibility with approval data



# Michigan AVIATION CO.

"We Stress Quality"

Complete Avionics Service

Repair Station No. KL2R956K

Oakland Co. Int'l Airport  
6150 Highland Rd.  
Waterford, MI 48327

Voice (248)666-3440  
Fax (248)666-5415

## Complete Aircraft Avionics Sales & Service WORK RECORD

REPAIR ORDER #	31962B	OPER NO.	1
EQUIPMENT	CHT Display		
MFG	Insight Instruments Corp.		
MODEL	GEM 1200		
P/N	1200-001		
S/N	1047		

### COMPLAINT

Remove CHT instrument and ship out for repair

### PARTS REPLACED

### WORK SUMMARY

Inspected. Removed GEM 1200 CHT, s/n 1047, and sent to Insight Instruments Corp. for repair. Reinstalled repaired GEM 1200 CHT, s/n 1047, and ramp tested. Instrument functions normal.

TECH: Michael Wilke <i>Michael Wilke</i>	DATE 03/22/2007
--	-----------------

THE AIRCRAFT AND/OR COMPONENT IDENTIFIED ABOVE WAS REPAIRED AND INSPECTED IN ACCORDANCE WITH CURRENT FEDERAL AVIATION REGULATIONS AND IS APPROVED FOR RETURN TO SERVICE.

INSPECTOR Jim Honer <i>Jim Honer</i>	DATE 03/22/2007
--------------------------------------	-----------------

OWNER: ED GOMBERT AIRCRAFT TYPE: PA-34 # 478  
 SYSTEM: PILOT  COPILOT  STANDBY  UTILITY  OTHER   
 ALTIMETER MAKE: UNICATED P.N.: 5939P-856 S/N: 7387  
 ENCODER/SIDCH MAKE: ADALCO P.N.: AE-850 S/N: 39076  
 TRANSPONDER MODEL: GTX-327 S/N: 83703491 S/N: \_\_\_\_\_  
 AT CURRENT BARO SETTING OF \_\_\_\_\_ ALTIMETER UNDER TEST READS \_\_\_\_\_ FEET.  
 MASTER ALTIMETER READS: \_\_\_\_\_ FEET.  
 AT 29.92 ALTIMETER UNDER TEST READS 100 FT / MASTER ALTIMETER READS 100 FT

TABLE 1 SCALE ERROR						TABLE 2			TABLE 3 FRICTION ERROR		
ALT	TOL	IND	ALT	TOL	IND	TEST DESC	TOL	IND	ALT	TOL	IND
-1000	20'	-5	14000	100'	+25	CASE LEAK	100	6.8	1000	70	35
0	20'	+5	16000	110'	+5	HYSTERISIS 50%	75	15	2000	70	40
500	20'	+10	18000	120'	0	HYSTERISIS 40%	75	20	3000	70	40
1000	20'	+10	20000	130'	0	AFTER EFFECT	30	10	4000	80	35
1500	25'	+10	22000	140'					15000	90	40
2000	30'	+10	25000	155'		STATIC SYSTEM LEAK RATE: 0.0 FT/HR AT 1000 FT ABOVE FIELD ELEVATION.			20000	100	40
3000	30'	+10	30000	180'					25000	120	
4000	35'	+10	35000	205'		PILOT SYSTEM LEAK RATE: 1 FT/HR MAX ALLOWED: 200 FT/HR			30000	140	
6000	40'	+10	40000	230'					35000	160	
8000	60'	+15	45000	255'		CORRELATION CHECK:			40000	180	
10000	80'	+25	50000	280'		YES <input checked="" type="checkbox"/>	NO <input type="checkbox"/>		50000	250	
12000	90'	+30									

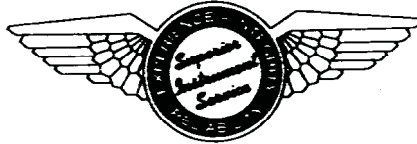
TABLE 4  
BARO SCALE ERROR

PRESS HG	IND DIFF	ALT DIFF	TOL	PRESS HG	IND DIFF	ALT DIFF	TOL
28.10	-1727	-1730	25	29.92	0	0	25
28.50	-1340	-1350	25	30.50	+530	+520	25
29.00	-863	-870	25	30.92	+893	+915	25
29.50	-392	-415	25	30.99	-974	+980	25

FRIESTER AVIATION  
 PAL-MARKEE MUNICIPAL AIRPORT  
 WHEELING, ILLINOIS 60090  
 F.A.A. REPAIR STATION  
 # 8812433  
 AUTHORIZED SIGNATURE: \_\_\_\_\_  
 3/28/01  
 DATE

YEAR:  DATE	RECORDING TACH TIME	TODAYS FLIGHT	TOTAL TIME IN SERVICE	<b>Description of Inspections, Tests, Repairs and Alterations</b> Entries must be endorsed with Name, Rating and Certificate Number of Technician or Repair Facility. (See back pages for other specific entries.)
				<p>BEEN INSPECTED IN ACCORDANCE WITH AN ANNUAL INSPECTION AND WAS DETERMINED TO BE IN AIRWORTHY CONDITION.</p> <p><i>E. J. [Signature]</i> AIP 885847988 IA.</p>
				<p>I certify that the altimeter systems were tested and inspected as per FAR 61.411 L.A.W. Part 43 Appendix E, paragraph B. Altimeter tested by <u>Superior WST</u> to <u>20 K</u> ft. Date tested <u>8-2-2007</u></p> <p>Signature <u>[Signature]</u> Date <u>8/13/07</u>  <b>HURON AVIONICS, INC.</b>            150 N. AIRPORT DR., KIMBALL, MI 48074            FAA Certified Repair Station # <b>H4NR191N</b></p>
				<p>I certify that the ATE Transponder was tested and inspected as per FAR 61.417 L.A.W. Part 43 Appendix E, paragraph B, subsection 3. The static and pressure probes reporting systems were tested &amp; inspected as per FAR 61.411 L.A.W. Part 43 Appendix E, paragraphs A and C respectively to <u>7500</u> ft.</p> <p>Signature <u>[Signature]</u> Date <u>8/13/07</u>  <b>HURON AVIONICS, INC.</b>            150 N. AIRPORT DR., KIMBALL, MI 48074            FAA Certified Repair Station # <b>H4NR191N</b></p>

Superior Instrument Service, Inc.  
1661 North Airport Road  
WATERFORD, MICHIGAN 48327



Repair Station #UM2R218L  
(3754) Class 1, 2, 3 & 4

Customer HUPON AVIATION

Inst. SRV. AMMETER

Type 9349-3 Serial 426919

W.O. 23033 P.O. 3714

Overhaul

Serviceable

Repair

Estimate

Bench Test

Unserviceable

Customer Instructions:

ALT. INSETS  
PAPER 3-E  
SPECS TO  
20KFT. TA

Record No.

CAL TO 20PT06  
LAG TEST OF  
HYDRA PISTON TO  
BAROMETRIC  
SETTING STRAIGHT  
LEAK TEST -  
20 PPT AT 20PT06  
AFTER EFFORT

Mechanic

Inspector

The aircraft and/or component identified above was repaired and inspected in accordance with current Federal Aviation Administration Regulations and was found airworthy for return to service. Pertinent details of the repair are on file at this agency under Work Order No. 33033

Date

Released by

for

SUPERIOR INSTRUMENT SERVICE, INC.  
Cert. No. UM2R218L  
1661 N. Airport Road · Waterford, MI 48327

YEAR:	RECORDING TACH TIME	TODAYS FLIGHT	TOTAL TIME IN SERVICE	Description of Inspections, Tests, Repairs and Alterations Entries must be endorsed with Name, Rating and Certificate Number of Technician or Repair Facility. (See back pages for other specific entries.)
DATE				
2-18-08	LEFT TACH: 127.0			INSTALLED NEW BUS FIELD'S UPGRADE PUMP P/N: 54-1000. INSTALLED REAL DOOR SEALS P/N: 3920-3924LS. THIS INSTALLATION SATISFIES THE AROC TO AD 98-21-2R. SEE FORM 357. INSTALLED NEW PROP DE-ICE BOOT ON RIGHT PROPELLER P/N: 4E1214-10. OPS CHECK NORMAL ON GROUND CHECK.

Huron Avionics, Inc. 140 North Airport Drive Kimball, MI 48074  
 LOG ID# 121 07-March-2008 REF# WO 160  
 N47816 S/N 34-7870004 PIPER PA-34-200T TACH 2896.6

Pf

REMOVED BOTH EXISTING GARMIN GNS430 AND GNS530 GPS/NAV/COMMS AND 1 EXISTING GA56 ANTENNA. INSTALLED BOTH UNITS AFTER THEY WERE UPGRADED WITH WAAS CAPABILITY. INSTALLED 2 GARMIN GA35 WAAS GPS ANTENNAS, TRANS-CAL SSD120-30A ALTITUDE ENCODER, AND S-TEC ST-360 ALTITUDE PRE-SELECT OPTION TO EXISTING S-TEC SYSTEM 60-2 AUTOPILOT AND I.A.W. WITH THE S-TEC MANUAL #ST-360. SEE FAA FORM 337 DATED MARCH 7, 2008.


REVISED AIRCRAFT WEIGHT AND BALANCE/EQUIPMENT LIST. A/C EQUIPPED W/A 60 AMP ALTERNATOR. ALL WORK DONE I.A.W. FAR AC 43.13-1A CHAP. 11, SECTION 2,3,4,5,7, AND MANUFACTURERS INSTALLATION MANUAL.

FUNCTIONAL TESTED INSTALLATION PER FAR 23.1301 AND 23.1431. MAGNETIC COMPASS CALIBRATION CHECKED PER FAR AC 43.13-1A, CHAP. 16, SECTION 5.

ABOVE EQUIPMENT/COMPONENTS WERE FOUND AIRWORTHY-RETURNED TO SERVICE.

  
 SIGNED H4NR191N WILLIAM C. MCKELVEY Date

YEAR:	RECORDING TACH TIME	TODAYS FLIGHT	TOTAL TIME IN SERVICE	Description of Inspections, Tests, Repairs and Alterations Entries must be endorsed with Name, Rating and Certificate Number of Technician or Repair Facility. (See back pages for other specific entries.)
DATE				
8-1-06				<p>AIRCRAFT TOTAL TIME: 5300.95 (LE TACH) PERFORMED ANNUAL INSPECTION (AW PAIR) SERVICE MANUAL AND CAN PART 43 APPENDIX D. THE FOLLOWING MAINTENANCE WAS PERFORMED: INSPECTED AIRFRAME AND STRUCTURE. INSPECTED FLIGHT CONTROLS, CABLES, PULLEYS. CHECKED CABLE TENSION. LUBRICATED ALL HINGES, PULLEY PIVOTS AND PULLEYS. INSPECTED ALL ELECTRICAL, FLUID LINES, DE-ICE / ANTI-ICE SYSTEMS, INSPECTED BATTERY, BATTERY BOX AND ELECTROLYTE. INSPECTED FUNCTION CHECKED BUT FOR CAN 91.207(e). AND FOUND CRACK BUT BATTERY DUE REPLACEMENT JULY 2007. INSPECTED UNDER FLOOR AND INSTRUMENT PANEL AND RUDDER PEDAL ASSEMBLY. INSPECTED LANDING GEAR, WHEELS, TIRES AND BRAKES. PERFORMED GEAR INSPECTION AND EXCHANGE EXTENSION INSTALLED NEW MAINWHEEL DECK HINGE PIN. RE-ARMED WHEEL BRAKES. AD'S CHECKED THROUGH 51-WHEELER 2008-15 F. (W THE FOLLOWING AD'S: 2005-13-16 BY USUAL INSPECTION OF FUEL RELIEF VALVE SHUT OFF VALVE EFFECTIVE DATE: 6-20-05 NO OTHER WORK OR REPAIRS AD'S DUE AT THIS TIME. I CERTIFY THAT THIS AIRCRAFT HAS BEEN INSPECTED IN ACCORDANCE WITH AN ANNUAL INSPECTION AND WAS DETERMINED TO BE IN AIRWORTHY CONDITION</p> <p style="text-align: right;">E. J. [Signature] AIP 50584752 JA</p>


YEAR:	RECORDING TACH TIME	TODAYS FLIGHT	TOTAL TIME IN SERVICE	Description of Inspections, Tests, Repairs and Alterations Entries must be endorsed with Name, Rating and Certificate Number of Technician or Repair Facility. (See back pages for other specific entries.)
DATE				
11-27-08				LEFT TACH: 213.8 HEATER HOSS: 856.8 PERFORMED HEATER PRESSURE DECOM TEST PER AD 2004-21-05, EFFECTIVE DATE: 11-19-04, REMOVED, CLEANED, LUBED AND REINSTALLED PILOT VALVE. OPS CHECK NORMAL,  AIP 885847980 IA

Huron Avionics, Inc. 140 North Airport Drive Kimball, MI 48074 H4NR191N  
LOG ID# 380 15-May-2009 WO# 662/1 HOBBS 2998.0  
N47815 S/N 34-7870004 PIPER PA-34-200T

REMOVED GARMIN GNS430W WAAS GPS/NAV/COMM P/N 011-01060-40 S/N 97118263 UPDATED GNS430W MAIN SOFTWARE FROM VERSION 3.00 TO VERSION 3.20 AND GPS SOFTWARE FROM VERSION 3.0 TO VERSION 3.2 I.A.W. GARMIN SOFTWARE SERVICE BULLETIN 0848 REV. B.

REMOVED GARMIN GNS530W WAAS GPS/NAV/COMM P/N 011-01064-40 S/N 78401288. UPDATED GNS530W MAIN SOFTWARE FROM VERSION 3.00 TO VERSION 3.20 AND GPS SOFTWARE FROM VERSION 3.0 TO VERSION 3.2 I.A.W. GARMIN SOFTWARE SERVICE BULLETIN 0848 REV. B.

RECONFIGURED UNITS & CONFIRMED UPDATES PERFORMED SUCCESSFULLY. REINSTALLED IN A/C. RETURNED TO SERVICE.

  
SIGNED H4NR191N WILLIAM C MCKELVEY

| | | |



YEAR: DATE	RECORDING TACH TIME	TODAYS FLIGHT	TOTAL TIME IN SERVICE	Description of Inspections, Tests, Repairs and Alterations Entries must be endorsed with Name, Rating and Certificate Number of Technician or Repair Facility. (See back pages for other specific entries.)
10-1-09	AIRCRAFT	TOTAL TIME: 53	8.05 (LEFT ENGINE TACH)	PERFORMED ANNUAL INSPECTION (AC PIPER SERVICE MANUAL AND FAR PART 43 APPENDIX D, THE FOLLOWING MAINTENANCE WAS PERFORMED: INSPECTED AIRFRAME AND STRUCTURE, INSPECTED FLIGHT CONTROLS, CABLES AND PULLERS, CHECKED CABLE TENSIONS, LUBRICATED ALL PIVOT POINTS, CABLES, WHEELS AND AXLES INSPECTED UNDER FLOOR AND INSTRUMENT PANEL, INSPECTED ALL ELECTRICAL, WIRING AND FUEL LINES. INSPECTED AND FUNCTION TESTED DE-ICE/ANTI-ICE SYSTEMS, INSPECTED BATTERY, BATTERY BOX AND CHECKED ELECTRICALS, INSPECTED AND FUNCTION TESTED ELT PER FAR 91.207(d) AND FOUND GOOD, INSTALLED NEW ELT BATTERY, ELT BATTERY DUE REPLACEMENT DECEMBER 2011. INSPECTED RUDDER POSTAL ASSEMBLIES, INSPECTED LANDING GEAR, WHEELS, TIRES AND BRAKES. PERFORMED LANDING GEAR RETRACTION AND EMERGENCY EXTENSION TEST. RE-PACKED WHEEL BEARINGS, INSPECTION CONSULTED HEATER ASSEMBLY, SERVICED BATTERY RESERVOIR. A/D'S CHECKED THROUGH BI-WEEKLY 2009-19 F. C/W THE FOLLOWING A/D'S: 2004-25-16 R1 BY VISUAL INSPECTION OF FUEL REGULATOR SHUT-OFF VALVE. EFFECTIVE DATE: 6-20-08, NEXT DUE: 10-20-09 NO OTHER NEW OR RETURNING A/D'S DUE AT THIS TIME. I CERTIFY THAT THIS AIRCRAFT HAS BEEN INSPECTED IN ACCORDANCE WITH AN ANNUAL INSPECTION AND WAS

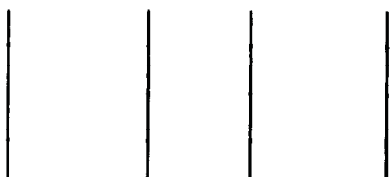
YEAR:	RECORDING TACH TIME	TODAYS FLIGHT	TOTAL TIME IN SERVICE	Description of Inspections, Tests, Repairs and Alterations Entries must be endorsed with Name, Rating and Certificate Number of Technician or Repair Facility. (See back pages for other specific entries.)
DATE				
				DETERMINED TO BE IN AIRWORTHY CONDITION. Eedg AIP 3658479801A.

Huron Avionics, Inc. 140 North Airport Drive Kimball, MI 48074 H4NR191N  
 LOG ID# 581 27-April-2010 WO# 729 AC TT 3066.2 HOBBS 3066.2  
 N47815 S/N 34-7870004 PIPER PA-34-200T Pg 1 / 1

I CERTIFY THAT THE ATC TRANSPONDER WAS TESTED AND INSPECTED AS PER FAR 91.413 I.A.W. PART 43, APPENDIX F TRANSPONDER MAKE/MODEL GARMIN GTX327. THE STATIC AND AUTOMATIC PRESSURE ALTITUDE REPORTING SYSTEMS WERE TESTED AND INSPECTED PER FAR 91.411 I.A.W. PART 43 APPENDIX E, PARAGRAPHS A AND C RESPECTIVELY TO 20,000 FT.

I CERTIFY THAT THE ALTIMETER SYSTEMS WERE TESTED AND INSPECTED AS PER FAR 91.411 I.A.W. PART 43, APPENDIX E, PARAGRAPH B. ALTIMETER TESTED BY HURON AVIONICS TO 20K FT. DATE TESTED: 4-27-2010.

*William C. McKevey* 4-27-10  
 SIGNED H4NR191N WILLIAM C MCKEVEY Date



YEAR:	RECORDING TACH TIME	TODAYS FLIGHT	TOTAL TIME IN SERVICE	Description of Inspections, Tests, Repairs and Alterations Entries must be endorsed with Name, Rating and Certificate Number of Technician or Repair Facility. (See back pages for other specific entries.)
DATE				

Huron Avionics, Inc. 140 North Airport Drive Kimball, MI 48074 H4NR191N  
 LOG ID# 562 28-April-2010 WO# 730/1 AC TT 2896.6  
 N47815 S/N 34-7870004 PIPER PA-34-200T TACH 2896.6

REMOVED GARMIN GNS430W WAAS GPS/NAV/COMM P/N 011-01060-40 S/N 97118263 UPDATED GNS430W MAIN SOFTWARE FROM VERSION 3.20 TO VERSION 3.30 I.A.W. GARMIN SOFTWARE SERVICE BULLETIN 0918 REV. A.  
 REMOVED EXISTING GARMIN GNS430W FLIGHT MANUAL SUPPLEMENT P/N 190-00356-03 AND REPLACED WITH GARMIN GNS430W FLIGHT MANUAL SUPPLEMENT P/N 190-00356-03 REV. B, FAA APPROVED DATE JULY 31, 2009, I.A.W GARMIN SERVICE BULLETIN 0918 REV. A.

REMOVED GARMIN GNS530W WAAS GPS/NAV/COMM P/N 011-01064-40 S/N 78401288. UPDATED GNS530W MAIN SOFTWARE FROM VERSION 3.20 TO VERSION 3.30 I.A.W. GARMIN SOFTWARE SERVICE BULLETIN 0918 REV. A.  
 REMOVED EXISTING GNS530W FLIGHT MANUAL SUPPLEMENT P/N 190-00357-03 AND REPLACED GNS530W FMS P/N 190-00357-03 REV. B, FAA APPROVED DATE JULY 31, 2009, I.A.W GARMIN SERVICE BULLETIN 0918 REV. A.

REINSTALLED IN 430W/530W UNITS IN AIRCRAFT. ALL TESTS OK - RETURNED TO SERVICE.

*William C McKelvey* 4-28-10

SIGNED H4NR191N WILLIAM C MCKELVEY Date

12-1-10 LEFT ENGINE TACH TIME: 305.6 AIRCRAFT TOTAL TIME: 517.15 (LEFT ENGINE TACH). PERFORMED ANNUAL INSPECTION IAW PIPER SERVICIA II SERVICE MANUAL AND FAR PART 43 APPENDIX D. THE FOLLOWING MAINTENANCE WAS PERFORMED: INSPECTED AIRFRAME & STRUCTURE. INSPECTED FLIGHT CONTROLS, CABLES AND PULLERS. CHECKED CABLE TENSIONS. LUBRICATED ALL

YEAR:	RECORDING TACH TIME	TODAYS FLIGHT	TOTAL TIME IN SERVICE	<b>Description of Inspections, Tests, Repairs and Alterations</b> Entries must be endorsed with Name, Rating and Certificate Number of Technician or Repair Facility. (See back pages for other specific entries.)
DATE				
				<p>HINGES, PIVOT POINTS AND ALLEY'S. INSPECTED AND FUNCTION TESTED ELT PER FAR PART 91.207(d) AND FOUND GOOD. ELT BATTERY DUE REPLACEMENT DECEMBER 2011. INSPECTED UNDER FLOOR AND INSTRUMENT PANEL. INSPECTED RUDDER PEDAL ASSEMBLIES AND SERVICED BRAKE RESERVOIR WITH MIL-H-5606 HYDRAULIC FLUID. INSPECTED BATTERY, BATTERY BOX AND CHECKED ELECTROLYTE. INSPECTED ALL ELECTRICAL, WIRING AND FLUID LINES. INSPECTED AND FUNCTION TESTED PNEUMATIC DE-ICE SYSTEM AND PROPELLER DE-ICE SYSTEM. INSPECTED LANDING GEAR, WHEELS, TIRES AND STRIKES. INSTALLED NEW TIRES P/N: 072-317-0 (2 EACH) ON LEFT AND RIGHT MAIN GEAR WHEELS. PERFORMED LANDING GEAR RETRACTION AND EMERGENCY EXTENSION TESTS THROUGH 5 CYCLES. LUBRICATED AND WASHED LANDING GEAR. RE-PACKED ALL WHEEL BEARINGS. INSPECTED COMBUSTION HEATER ASSEMBLY. INSTALLED NEW BRUSH ASSEMBLIES P/N: 753-391 (2 EACH) IN COMBUSTION HEATER COMBUSTION BLOWER MOTOR. INSTALLED NEW O-RINGS P/N: M328775-222 (2 EACH) IN LEFT BRAKE CYLINDER. INSTALLED NEW VACUUM PUMP INLET FILTERS P/N: AAD9-1A-5 (2 EACH). INSTALLED NEW AIR FILTERS P/N: BA-5 (2 EACH). CHECKED AD'S THROUGH A1-WORKBOOK 2010-2011. COMPLIED WITH THE FOLLOWING AD'S: 2010-15-10 BY INSPECTION OF PILOT AND CO-PILOT CONTROL WHEEL</p>

**AIRFRAME LOGBOOK ENTRY**

**Model:** PA34-200T    **S/N:** 34 7870004    **Reg #:** N47815    **ATT:** N/A    **Hobbs:** 2484.3

*Removed: Collins #2 VHF 251 Com p/n 622 2078 001 s/n 19098, #2 VIR 351 Nav p/n 622-2080-011 s/n 25836, #2 IND-351 CDI p/n 622 2083 003 s/n 7082, GLS-350 Glideslope Receiver p/n 622-2084-001 s/n 5270, IND-650 ADF Indicator p/n 622 2536-001 s/n 4558, RCR-650 ADF Receiver p/n 622-2091-001 s/n 9407, TDR 950 Transponder p/n 622 2092-001 s/n 5495, L band antenna p/n AV 22 s/n none.*

*Installed: Garmin #1 GNS 530 Nav/Com/GPS p/n 011 00550 10 s/n 78401288, #1 GA-56 GPS Antenna p/n 011 00134 00 s/n 59049451, #2 GI-106A CDI p/n 013 00049-11 s/n B21227, GTX-327 Transponder p/n 011 00490 00 s/n 83703491, King KA-118 Demodulator p/n 071-1095 00 s/n 2045, King KA-60 L-band antenna p/n 071 0159 0001 s/n 50766, #2 MD41 GPS Annunciator/Switch p/n MD41-1464A s/n 18118 and Autopilot Nav Switching Relay p/n AIS80-1 s/n 11022. Relocated existing GNS 430 to right avionics stack and added remote annunciators. GNS 430 is re-interfaced as the #2 system. See FAA approved form 337, FAA approved GNS 530/GNS 430 Flight Manual Supplement, revised weight & balance / equipment list and GNS 530 / GNS 430 Pilot's Guides for further information. GPS systems placarded GPS NOT APPROVED FOR NAVIGATION pending FAA approvals. Completion of test flight and approval of flight manual supplement removes placard and limitation and allows GPS systems to be operated per instructions and limitations of the FAA approved flight manual supplement, POH, and Garmin manuals. END*

The Avionics installation identified above was accomplished and inspected in accordance with current manufacturer's instructions, FAR 43, AC 43.13-1B and 2A and is approved for return to service as per these requirements. With respect to work performed, more pertinent details of this repair are on file at this FAA Repair Station under WORK ORDER# 48811

**PRIESTER AVIATION**  
Palwaukee Municipal Airport  
Wheeling, Illinois, USA  
FAA Repair Station PBR2401

Signed:

*Jack R. Stoegel*

Date: March 30, 2001



YEAR:  DATE	RECORDING TACH TIME	TODAYS FLIGHT	TOTAL TIME IN SERVICE	<b>Description of Inspections, Tests, Repairs and Alterations</b> Entries must be endorsed with Name, Rating and Certificate Number of Technician or Repair Facility. (See back pages for other specific entries.)
				SHAPTS. NO DISCREPANCIES NOTED. NO FURTHER ACTION REQUIRED. 2004-21-05 BY COMBUSTION HEATER PRESSURE DECAH TEST AND FUNCTION TEST OF COMBUSTION HEATER AIR PRESSURE SWITCH. NEXT DUE HEATER HOSS: 993.1 HOURS OR 12-2012, WHICHEVER OCCURS FIRST. 2004-25-16 R1 BY INSPECTION OF COMBUSTION HEATER FUEL REGULATOR SHUT-OFF VALVE FOR EVIDENCE OF FUEL LEAKAGE. NEXT DUE LEFT ENGINE TACH: 405.6 HOURS OR 12-2011, WHICHEVER OCCURS FIRST. NO OTHER NEW OR RECURRING AD'S DUE AT THIS TIME. I CERTIFY THAT THIS AIRCRAFT HAS BEEN INSPECTED IN ACCORDANCE WITH ANNUAL INSPECTION AND WAS DETERMINED TO BE IN AIRWORTHY CONDITION.  <i>Engel</i> ADP 305BA-7900 IA.

3  
GRIFFIN AVIONICS, INC.  
BARNSTABLE MUNICIPAL AIRPORT  
HYANNIS, MA 02601

TEL. (508) 771-2638  
TEL. (508) 771 5027

DISC. Demodulator

P/N 071-1095-00 KA-118

S/N 2045

TECH JJ

DATE 3/28/01

CUSTOMER HARBE

A/C MODEL \_\_\_\_\_

N NO. \_\_\_\_\_ POS. \_\_\_\_\_

REPAIR  O.H. \_\_\_\_\_

OTHER: aligned per  
mfgr specs.

SERVICABLE PART

THE AIRCRAFT APPLIANCE IDENTIFIED ON REVERSE SIDE WAS REPAIRED AND INSPECTED IN ACCORDANCE WITH CURRENT F.A.A. REGULATIONS AND, FOR THE LEVEL OR SCOPE OF THE WORK PERFORMED, IS APPROVED FOR RETURN TO SERVICE.

PERTINENT DETAILS OF THE REPAIR ARE ON FILE AT THIS AGENCY UNDER WORK ORDER No. 26317.....  
DATED 3/28/01..... SIGNED James J. Griffin FOR

GRIFFIN AVIONICS, INC.  
F.A.A. REPAIR GN1R172K



YEAR:	RECORDING TACH TIME	TODAYS FLIGHT	TOTAL TIME IN SERVICE	Description of Inspections, Tests, Repairs and Alterations Entries must be endorsed with Name, Rating and Certificate Number of Technician or Repair Facility. (See back pages for other specific entries.)
DATE				

**AIRFRAME LOGBOOK ENTRY**

Model: PA34 200T    S/N: 34 7870004    Reg #: N47815    ATT: 4895.26    Hobbs: 2496.7

*Removed, repaired, and re installed autopilot mode controller p/n 1D720 s/n 2332. Function test nominal. END*

The Avionics component system identified above was repaired and inspected in accordance with current manufacturer's instructions, FAR 43, AC 43.13-1B and 2A and is approved for return to service as per these requirements. With respect to work performed, more pertinent details of this repair are on file at this FAA Repair Station under WORK ORDER # 48918

**PRIESTER AVIATION**  
 Milwaukee Municipal Airport  
 Wheeling, Illinois, USA  
 FAA Repair Station PRR2481

Signed: *Jack R. Skogel*

Date: April 17, 2001

1 UNITED STATES		<b>FAA FORM 8130-3</b> AIRWORTHINESS APPROVAL TAG U.S. Department of Transportation Federal Aviation Administration			3 System Tracking Ref. No. ACI <b>\$5463</b>	
4 Organization		<b>AUTOPILOTS CENTRAL, INC</b> HANGAR 23 TULSA INT'L AIRPORT TULSA, OKLAHOMA 74115			5 Work Order, Contract, or Invoice Number. SAME AS #3	
6 Item	7 Description	8 Part Number	9 Eligibility* <input checked="" type="checkbox"/> TAO Article <input type="checkbox"/> Various	10 Quantity	11 Serial/Batch Number	12 Status/Work
1	Console	10720		1	2332	Repaired
13 Remarks REFERENCE ATTACHED SERVICE SHOP REPORT FOR WORK PERFORMED						
<p>Limited life parts must be accompanied by maintenance history including total time/total cycles/time since new</p> <p>14 New <input type="checkbox"/> Newly Overhauled <input type="checkbox"/></p> <p>Certified that the new or newly overhauled part(s) identified above, except as otherwise specified in block 13 was (were) manufactured in accordance with FAA Approved design data and airworthiness</p> <p>NOTE: In case of parts to be exported, the special requirements of the importing country have been met</p> <p>15 Signature</p> <p>16 FAA Authorization No</p> <p>17 Name (Typed or Printed)</p> <p>18 Date</p> <p>19 Return Service in Accordance with FAR 43.9 Certifies that the work specified in block 13 (or attached above) was carried out in accordance with FAA airworthiness regulations and in respect to the work performed the part(s) is (are) approved for return to service</p> <p>20 Authorized Signature <i>Jim Katopodis II</i> Name (Typed or Printed) Jim Katopodis II</p> <p>21 Certificate Number CM21174/K</p> <p>23 Date 4-11-01</p>						
<p>FAA Form 8130-3 (11-93)</p> <p>(Optional) Installer must cross check eligibility with applicable technical data</p>						

YEAR:	RECORDING TACH TIME	TDBAYS FLIGHT	TOTAL TIME IN SERVICE	Description of Inspections, Tests, Repairs and Alterations Entries must be endorsed with Name, Rating and Certificate Number of Technician or Repair Facility. (See back pages for other specific entries.)
DATE				

Huron Avionics, Inc. 140 North Airport Drive Kimball, MI 48074 H4NR191N  
 LOG ID# 720 19-May-2011 WO# 967 HOBBS 3099.9  
 N47815 S/N 34-7870004 PIPER PA-34-200T

REMOVED GARMIN GMA340, GNS530W, GNS430W AND GTX327 SYSTEMS.  
 INSTALLED GARMIN GMA35 AUDIO PANEL, GTX32 TRANSPONDER, GTN 750 #1 GPS/NAV/COMM, GTN 650 #2  
 GPS/NAV/COMM AND GDL69A XM DATALINK WITH GA55 XM ANTENNA I.A.W. STC# SA02019SE-D. THE GTN750 AND  
 GTN650 ARE WIRED TO THE EXISTING GA35 GPS WAAS ANTENNAES, S-TEC 60-2 AUTOPILOT FOR STEERING  
 INFORMATION AND GTX32 TRANSPONDER FOR ALTITUDE DATA. S-TEC ST-901 GPSS STEERING CONVERTER TO  
 EXISTING SYSTEM 60-2 AUTOPILOT.  
 CONFIGURED, TESTED ALL EQUIPMENT AND RETURNED TO SERVICE.

NEW WEIGHT AND BALANCE: EMPTY WT. 3168.32 LBS. C.G. 89.41 IN. MOMENT 283271.60 USEFUL LOAD 1401.68  
 LBS.

I CERTIFY THAT THE ATC TRANSPONDER WAS TESTED  
 AND INSPECTED AS PER FAR 91.413 I.A.W. PART 43,  
 APPENDIX F TRANSPONDER MAKE/MODEL GARMIN GTX32.  
 THE STATIC AND AUTOMATIC PRESSURE ALTITUDE  
 REPORTING SYSTEMS WERE TESTED AND INSPECTED  
 PER FAR 91.411 I.A.W. PART 43 APPENDIX E,  
 PARAGRAPHS A AND C RESPECTIVELY TO 20,000 FT.

I CERTIFY THAT THE ALTIMETER SYSTEMS WERE  
 TESTED AND INSPECTED AS PER FAR 91.411  
 I.A.W. PART 43, APPENDIX E, PARAGRAPH B.  
 ALTIMETER TESTED BY HURON AVIONICS, INC.  
 TO 20K FT. DATE TESTED: May 19, 2011.

SIGNED H4NR191N William C McKelvey WILLIAM C MCKELVEY

Date

5-19-2011

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YEAR:	RECORDING TACH TIME	TODAYS FLIGHT	TOTAL TIME IN SERVICE	Description of Inspections, Tests, Repairs and Alterations Entries must be endorsed with Name, Rating and Certificate Number of Technician or Repair Facility. (See back pages for other specific entries.)
DATE				

Huron Avionics, Inc. 140 North Airport Drive Kimball, MI 48074 H4NR191N  
 LOG ID# 782 08-September-2011 WO# 1088  
 N47815 S/N 34-7870004 PIPER PA-34-200T

Pg 1 / 1

GARMIN GTN650 PHOTO CELL DIMMING ONLY DIMS TO 50%. TRIED ALL CONFIGURATIONS AND SETTINGS AND DISPLAY DOES NOT DIM PROPERLY. REMOVED EXISTING GARMIN GTN650, P/N 011-02256-00 S/N 128000524, AND INSTALLED NEW WARRANTY EXCHANGE UNIT, P/N 011-02256-00 S/N 128000628. TESTED AND RETURNED TO SERVICE.

*William C McKelvey*

SIGNED H4NR191N WILLIAM C MCKELVEY

Huron Avionics, Inc. 140 North Airport Drive Kimball, MI 48074 H4NR191N  
 LOG ID# 797 02-November-2011 WO# 1129 FORM QC-09  
 N47815 S/N 34-7870004 PIPER PA-34-200T

Pg 1 / 1

REMOVED GARMIN GPS/NAV/COM GTN650, P/N 011-02256-00 S/N 128000628, AND REPLACED WITH EXCHANGE GTN650, P/N 011-02256-00 S/N 128001388. TESTED AND RETURNED TO SERVICE.

REMOVED AND REPLACED QUAM SPEAKER, P/N 11-04646. ALSO REMOVED EXISTING GARMIN GMA35, P/N 011-02299-00 S/N 1T6000193, AUDIO PANEL AND REPLACED WITH EXCHANGE GMA35, P/N 011-02299-00 S/N 1T6000589. TESTED AND RETURNED TO SERVICE.

*William C McKelvey*

SIGNED H4NR191N WILLIAM C MCKELVEY

AVANTGARDE AVIATION, INC.

AIRFRAME LOG ENTRY N47815

1/12/2012 ANNUAL INSPECTION, TOTAL TIME 5534.3, LH TACH 422.8,  
TOTAL TIME TRACKS LH TACH.

AD NOTES RESEARCHED THRU 2011-27

AD 2004-21-5 HEATER PSI DECAY DUE AT 12/12

CW AD 04-25-16R1 HEATER FUEL VALVE, DUE EA 100 HRS, BY INSPECTION, NO  
FUEL LEAKS FOUND. NEXT DUE AT LH TACH 522.

CW AD 2005-13-16 BY INSPECTION IAW SB 1123A NLG 50 HOUR NEXT DUE  
472, 100 HR NEXT DUE 522, AND 500 HOUR BOLT REPLACED NEXT DUE AT LH  
TACH 1044.

IFR STATIC TEST DUE AT 4/2012

ELT TESTED IAW 91.207 [D] NO CORROSION FOUND, BATTERY REPLACEMENT  
DATE 12-2014.

ADJUSTED FWD CABIN DOOR SEAL AT TOP AND REPLACED ALL BLOW UP DOOR  
SEAL PIG TAILS, SERVICED BOTH FUEL STRAINERS AND REPLACED  
SEALS, CLEANED AND LUBED TAIL TRIM SYSTEM, REPLACED LH & RH VACUUM  
FILTERS, REPAIRED CRACK IN BATTERY BOX WITH EPOXY AND GLASS  
CLOTH, SERVICED BATTERY, RETORQUE ALL FUEL TANK TRANSMITTER GASKET  
BOLTS, SERVICED WHEELS AND BRAKE REPLACED BOTH DISC AND PAINTED  
WHEEL HALF, S THAT WERE CORRODED REPLACED ALL BRAKE LINING PINS AND  
ONE PSI PLATE AND ALL BRAKE INNINGS CLEANED BRAKE GUIDE PINS HONED  
BUSHINGS AND LUBED WITH ANTI SEIZE, REPAIRED 3 HUB CAP HOLD DOWN  
SCREW HOLES, REGLUED SEVERAL INST PANEL PLACARDS, INSTALLED NEW TAIL  
NAV LIGHT LAMP, REGLUED CENTER SEAT CARPET TO FLOOR BOARD, REPLACED  
AFT CABIN DOOR BUMPER, REPLACED LOOSE STD SIZE CHERRY MAX RIVETS ON  
ELV TRIM TAB HORN WITH OVER SIZE CHERRY MAX RIVETS,

I CERTIFY THAT THIS AIRCRAFT HAS BEEN INSPECTED IN ACCORDANCE WITH  
A ANNUAL INSPECTION AND WAS DETERMINED TO BE IN AN AIRWORTHY  
CONDITION WORK ORDER #20961 JOHN F JOHNS  
1519936A&I *John F Johns*

AVANTGARDE AVIATION, INC.  
AIRFRAME LOG ENTRY N47815

2/21/2012, LH TACH 438.9, R&I SHADEN FUEL FLOW FOR BENCH TEST AT SHADIN INSPECTED PLUG AND WIREING NO FALTS NOTED GROUND RUN NORMAL, REPLACED LH INSTRUMENT PSI PUMP WITH RAPCO NEW RA441CC PUMP BLEW OUT HOSES AND FILTERS, INSTALLED RAPCO PUMP COOLING KIT {SEE 337 THIS DATE} GROUND RUN 5 INCHES, WO 20986.  
BRAIN SCOTT A&P3599823 Brain Scott

DATE	5-7-2012	LH TACH	457.4
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Removed and replaced left coil flap cable assembly P/N 554-305, operational check OK, also removed left tach interior cable cleaned and lubed with grease, installed cable back in position. Avantgarde Aviation INC. W/O # 21019 Ruben Hernandez  
AIP 3256114  
END



YEAR:	RECORDING TACH TIME	TODAYS FLIGHT	TOTAL TIME IN SERVICE	<b>Description of Inspections, Tests, Repairs and Alteration</b> <small>Entries must be endorsed with Name, Rating and Certificate Number of Technician or Repair Facility. (See back pages for other specific entries)</small>
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SMOH \_\_\_\_\_

**Michigan Aviation Co**

Total Time \_\_\_\_\_

Date 6-21-12

6150 Highland Rd. Waterford Mi. 48327  
 Phone 248-666-3440 Fax 248-666-4630

Hobbs 3272.8

Installed new "START AND ACC" circuit breaker P/N 454-715. Operational check  
 satisfactory at this time. -----END-----

The Aircraft/component identified above was repaired and inspected IAW Federal  
 Aviation Regulations and is approved for return to service.  
 CRS KL2R956K JRB A3271563







AVANTGARDE AVIATION, INC.

AIRFRAME LOG ENTRY N47815

- 3/01/2013 ANNUAL INSPECTION, TOTAL TIME 5662.5, LH TACH 551.0, TOTAL TIME TRACKS LH TACH.
- AD NOTES RESEARCHED THRU 2013-02
- AD 2004-21-5 HEATER PSI DECAY DUE AT 03/15
- CW AD 04-25-16R1 HEATER FUEL VALVE, DUE EA 100 HRS, BY INSPECTION, NO FUEL LEAKS FOUND. NEXT DUE AT LH TACH 651.
- CW AD 2005-13-16 BY INSPECTION IAW SB 1123A NLG 50 HOUR NEXT DUE 601, 100 HR NEXT DUE 751, AND 500 HOUR BOLT REPLACED NEXT DUE AT LH TACH 1044.
- CW AD 2013-02-13 ELEVATOR CABLE INSPECTION IAW SB 1245A, DUE EA 2000 HOURS [2422] OR 7 YEARS 2020.
- IFR STATIC TEST COMPLETED BY PREFERRED AVIONICS NEXT DUE AT 2/2015
- ELT TESTED IAW 91.207 [D] NO CORROSION FOUND, BATTERY REPLACEMENT DATE 12-2014.
- SERVICED BOTH FUEL STRAINERS AND REPLACED SEALS, CLEANED AND LUBED TAIL TRIM SYSTEM, DEGREASED BEHIND GEARS AND WHEELS, REPLACED FUEL CAP SEALS, REPLACED WIND LACING ON REAR BAGG DOOR REPLACED SEVERAL MISSING SCREWS REPLACED STRIPPED NUT PLATE, INSTALLED TY-RAP ON DOOR SEAL PIG TAIL, REPLACED RH STABILIZER TIP, REPLACED FRESH AIR SCAT IN TAIL CONE, SERVICED BATTERY, SERVICED WHEELS AND BRAKE BEARINGS, CHECKED BRAKE DISC, S THICKNESS, REPLACED LH MAIN TIRE AND BALANCED, CW SB 956 MAIN LANDING GEAR TRUNNION ATTACH BOLTS ON RH GEAR LH WAS PREVIOUSLY CW, INSTALLED OVER SIZE HINGE PIN IN RH MAIN GEAR DOOR, REPLACED ALL BRAKE LININGS CLEANED BRAKE GUIDE PINS HONED BUSHINGS AND LUBED WITH ANTI SEIZE, REGLUED SEVERAL INST PANEL PLACARDS, REGLUED CENTER SEAT CARPET TO FLOOR BOARD,
- I CERTIFY THAT THIS AIRCRAFT HAS BEEN INSPECTED IN ACCORDANCE WITH A ANNUAL INSPECTION AND WAS DETERMINED TO BE IN AN AIRWORTHY CONDITION
- WORK ORDER #21134 JOHN F JOHNS
- 1519936A&I *[Signature]*





AVANTGARDE AVIATION, INC.  
AIRFRAME LOG ENTRY N47815

01/24/2014 ANNUAL INSPECTION, TOTAL TIME 5711.9, LH TACH 630.5,  
TOTAL TIME TRACKS LH TACH. RH TACH 625.7

AD NOTES RESEARCHED THRU 2014-01

AD 2004-21-5 HEATER PSI DECAY NO LONGER APPLIES NEW HEATER  
INSTALLED

AD 04-25-16R1 HEATER FUEL VALVE, NO LONGER APPLIES NEW VALVE  
INSTALLED.


CW AD 2005-13-16 BY INSPECTION IAW SB 1123A NLG 50 HOUR NEXT DUE  
680, 100 HR NEXT DUE 730, AND 500 HOUR BOLT REPLACED NEXT DUE AT LH  
TACH 1044.

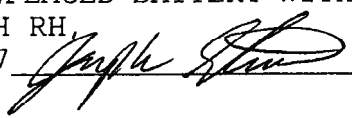
AD 2013-02-13 ELEVATOR CABLE INSPECTION IAW SB 1245A, DUE EA 2000  
HOURS [2422] OR 7 YEARS 2020.

IFR STATIC TEST COMPLETED BY PREFERRED AVIONICS NEXT DUE AT 2/2015  
INSTALLED NEW ARTEX 406 ELT ON LH SIDE OF TAIL CONE BEHIND REAR  
CABIN BULKHEAD, TESTED IAW 91.207 [D] NO CORROSION FOUND, BATTERY  
REPLACEMENT DATE 10-2020. UPDATED WEIGHT AND BALANCE.

SERVICED BOTH FUEL STRAINERS AND REPLACED SEALS, CLEANED AND LUBED  
TAIL TRIM SYSTEM, DEGREASED BEHIND GEARS AND WHEELS,

REPLACED HEATER BLOWER ASSY WITH NEW UPDATED UNIT P/N CD21414,  
REPLACED FUEL CAP SEALS, REPAIRED LOWER TAIL CONE FIBER GLASS USING  
EPOXY AND CLOTH, INSTALLED NEW REAR BAGG BOX DOOR STOP, REGLUED BAGG  
BOX DOOR CARPET, PAINTED LH INBD LEADING EDGE AND TOUCHED UP SEVERAL  
CHIPS, TOUCHED UP WING WALK, HAD COPILOTS SEAT BACK POCKET REPAIRED,  
REATTACHED COPILOTS REAR CORNER PLASTIC COVER AND CARPET, REPLACED  
CABIN OVERHEAD LIGHT ASSY WITH USED SERVICEABLE ASSY, PLACARDED  
LANDING LIGHT SWITCH, REPLACED INSTRUMENT FILTERS, REPLACED LH TACH  
CABLE AND LUBED BOTH CABLES, RESEALED WINDSHIELD, INSTALLED NEW TAIL  
TRIM WEAR STRIP, \*\*\*\*\*SEE NEXT PAGE\*\*\*\*\*

RETORQUED ALL FUEL TRANSMITTER BOLTS, REGLUED LH INBD STALL SWITCH  
HEATER, REPLACED BATTERY BOX A+ STRAP, REPLACED LH & RH FUEL TANK  
PLACARDS, SERVICED BATTERY AND CHECKED CAPACITY, SERVICED WHEELS  
BEARINGS, CHECKED BRAKE DISC, S THICKNESS, REPLACED ALL BRAKE LININGS  
CLEANED BRAKE GUIDE PINS HONED BUSHINGS AND LUBED WITH ANTI  
SEIZE, REPLACED GEAR UNSAFE LIGHT LAMP, REPLACED CENTER WOODEN FLOOR  
BOARD WITH NEW, REPAIRED DEFORMED SKIN BEHIND LH & RH ENGINES ABOVE  
EXHAUST TAIL PIPES BY INSTALLING INSPECTION PLATE IN SKIN AND  
CLEANING OUT EXHAUST RESIDUE AND SPRAYING WITH CORROSION-X  
INSTALLING AN ANGLE TO REINFORCE THE WARPED SKIN USING STAINLESS AND  
SEALING PLATES TO KEEP EXHAUST FROM GETTING INSIDE,  
I CERTIFY THAT THIS AIRCRAFT HAS BEEN INSPECTED IN ACCORDANCE WITH  
A ANNUAL INSPECTION AND WAS DETERMINED TO BE IN AN AIRWORTHY  
CONDITION WORK ORDER #21246 JOHN F JOHNS  
1519936A&I 

AVANTGARDE AVIATION, INC.  
AIRFRAME LOG ENTRY N47815  
3/18/2014, LH TACH 658.9 REPLACED BATTERY WITH GILL G35, ADJUSTED LH  
VOLTAGE REGULATOR TO MATCH RH,  
JOSEPH STEWART A&P 3690287 

AVANTGARDE AVIATION, INC.  
AIRFRAME LOG ENTRY N47815

8/28/2014, LH TACH 705.6, REMOVED INSIGHT EGT/CHT SYSTEM AND  
INSTALLED INSIGHT GEM P/N 610C-001 MODEL G4 TURBO IAW STC SA09-30NY  
AND INSTALLATION MANUAL DOCUMENT #070906, SEE 337 THIS DATE.  
JOHN F JOHNS A&P 1519936 John F Johns

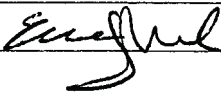
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AVANTGARDE AVIATION, INC.  
AIRFRAME LOG ENTRY N47815

9-12-2014 LH TACH 710.7  
REPLACED BOTH ALTERNATOR REGULATORS AND SET VOLTAGE TO 14.4 VOLTS  
JOHN F JOHNS AP1519936 John F Johns




YEAR:	RECORDING TACH TIME	TODAYS FLIGHT	TOTAL TIME IN SERVICE	Description of Inspections, Tests, Repairs and Alterations Entries must be endorsed with Name, Rating and Certificate Number of Technician or Repair Facility. (See back pages for other specific entries.)
DATE				
2-15-15	LH TACH: 793.6		RH TACH: 790.8 AIRCRAFT TOTAL TIME: 5875.0 (USING LH TACH)	PERFORMED ANNUAL INSPECTION IN ACCORDANCE WITH PIPEC PA34-200T SERVICE MANUAL AND FAA PART 43 APPENDIX D. THE FOLLOWING MAINTENANCE WAS PERFORMED: INSPECTED AIRFRAME AND STRUCTURE. INSPECTED ALL FLIGHT CONTROLS, CABLES AND PULLEY'S. CHECKED CABLE TENSIONS, LUBRICATED ALL PIVOT POINTS, HINGES AND PULLEYS. INSPECTED UNDER REAR SEATS AND INSTRUMENT PANEL. INSPECTED RUBBER PEDAL ASSY'S AND SERVICED BRAKE RESERVOIR. INSPECTED AND FUNCTION TESTED ELT PER FAA PART 91.207(d) AND MTECH OPERATION INSTRUCTIONS AND FOUND GOOD. ELT BATTERY DUE REPLACEMENT OCTOBER 2020. INSPECTED BATTERY, BATTERY BOX AND CHECKED ELECTROLYTE. INSPECTED ALL ELECTRICAL, WIRING AND FLUID LINES. INSPECTED AND FUNCTION TESTED PNEUMATIC DE-ICE SYSTEM AND WINDSHIELD WEEPER. INSPECTED LANDING GEAR, WHEELS, TUBES AND BRAKES. INSTALLED 3 EACH CONDON TUBES PIN: 072-314-0 AND 3 NON TUBES PIN: 092-500-0 ON ALL THREE LANDING GEAR WHEELS. REPACKED ALL WHEEL BEARINGS. PERFORMED LANDING GEAR RETRACTION/EXTENSION/EMERGENCY EXTENSION CHECKS THROUGH 5 CYCLES. LUBRICATED AND WASHED LANDING GEAR. INSPECTED AND FUNCTION TESTED COMBUSTION HEATER. CHECKED

YEAR:	RECORDING TACH TIME	TODAYS FLIGHT	TOTAL TIME IN SERVICE	Description of Inspections, Tests, Repairs and Alterations Entries must be endorsed with Name, Rating and Certificate Number of Technician or Repair Facility. (See back pages for other specific entries.)
DATE				
				AD'S THROUGH BI-WEEKLY 2015-04. COMPLIED WITH AD 2005-13-16 BY INSPECTION IN ACCORDANCE WITH PIVOT SERVICE BULLETIN 1123A ON THE NOSE LANDING GEAR. 50 HOUR INSPECTION NEXT DUE LEFT TACH: 843.6 HOURS. 100 HOUR INSPECTION NEXT DUE LEFT TACH: 893.6 HOURS. 500 HOUR BOLT REPLACEMENT NEXT DUE LEFT TACH: 1044-0 HOURS. NO OTHER NON OK RECURRING AD'S DUE AT THIS TIME AND DATE. I CERTIFY THAT THIS AIRCRAFT HAS BEEN INSPECTED IN ACCORDANCE WITH AN ANNUAL INSPECTION AND WAS DETERMINED TO BE IN AIRWORTHY CONDITION.  A&P 385847988 IA.
4-2-15				LEFT TACH: 803.3 RIGHT TACH: 800.7 INSTALLED NEW AIRCRAFT BATTERY, CONCORD P/N: R635AXC, SERIAL NUMBER: 40712533. SEE FORM 337 THIS DATE INSTALLED NEW MICHELIN AIR TIRES P/N: 070-317-0 (2 EACH) ON LEFT AND RIGHT MAIN GEAR WHEELS. REUSED SERVICEABLE TUBES, REPACKED WHEEL BEARINGS. INSTALLED NEW BRAKE DISCS P/N: 164-21600 (2 EACH) AND NEW BRAKE LININGS P/N: 066-62000 (8 EACH). INSTALLED NEW FAA/PMA'D TAIL CONE FROM KNOTS 2 U P/N: GF96338. INSTALLED NEW LEFT AND RIGHT WING BOLT FAIRINGS FROM KNOTS 2 U P/N: GF63942-00





YEAR:	RECORDING TACH TIME	TODAYS FLIGHT	TOTAL TIME IN SERVICE	Description of Inspections, Tests, Repairs and Alterations Entries must be endorsed with Name, Rating and Certificate Number of Technician or Repair Facility. (See back pages for other specific entries.)
DATE				

12/7/2015 N47815 Tach 985.1, Installed new GE1383 bulb for ice light. The work on the Aircraft/component identified above was accomplished in accordance with the current Federal Aviation Regulations and is approved for return to service. -END-

AP 2725134 Matt Lahti

*Matt Lahti*

3-1-16	LH TACH: 1007.3	RH TACH: 1006.7	AIRCRAFT TOTAL TIME: 6088.7	(USING LEFT HAND TACH). PERFORMED ANNUAL INSPECTION IN ACCORDANCE WITH PIPER PA 34-2007 SERVICE MANUAL AND FAR PART 43 APPENDIX D. THE FOLLOWING MAINTENANCE WAS PERFORMED: INSPECTED AIRFRAME AND STRUCTURE. INSPECTED ALL FLIGHT CONTROLS, CABLES AND PULLEYS. CHECKED CABLE TENSIONS. LUBRICATED ALL HINGES, PULLEYS AND PIVOT POINTS. INSPECTED UNDER PANEL SEATS AND INSTRUMENT PANEL. INSPECTED PUMPED PEDAL ASSEMBLIES AND SERVICED BRAKE RESERVOIR. CLEANED AND TREATED AIR FILTERS. INSPECTED AND FUNCTION TESTED ELT PER FAR PART 91.207(d) AND ARTEX OPERATION INSTRUCTIONS AND FOUND GOOD. ELT BATTERY DUE REPLACEMENT OCTOBER 2020. INSPECTED BATTERY AND BATTERY BOX. INSPECTED ALL ELECTRICAL, WIRING AND FLUID LINES. INSPECTED AND SERVICED LANDING GEAR HYDRAULIC POWER PACK. INSPECTED AND
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YEAR:	RECORDING TACH TIME	TODAYS FLIGHT	TOTAL TIME IN SERVICE	Description of Inspections, Tests, Repairs and Alterations Entries must be endorsed with Name, Rating and Certificate Number of Technician or Repair Facility. (See back pages for other specific entries.)
DATE				
	FUNCTION TESTED			PNEUMATIC DELCO SYSTEM, PROPELLER DELCO SYSTEM AND WINDSHIELD DELCO. INSPECTED LANDING GEAR, WHEELS, TIRES AND BUNGES. INSTALLED NEW TIRE ON RIGHT MAIN GEAR WHEEL. REPACKED ALL WHEEL BEARINGS. PERFORMED LANDING GEAR RETRACTION AND EXTENSION AND EMERGENCY EXTENSION CHECKSTROKES 5 CYCLES. CHECKED LANDING GEAR WARNING SYSTEM FOR PROPER OPERATION. LUBRICATED AND WASHED LANDING GEAR. INSPECTED AND FUNCTION TESTED COMBUSTION HEATER ASSEMBLY. INSTALLED NEW HI-SHEAR RIVETS IN LOWER RUBBER HINGE ATTACHING BUCKET. INSTALLED NEW PUCKER COVER CASKETS ON BOTH ENGINES. INSTALLED NEW LANDING LIGHT LAMP P/N: GE4509. CHECKED AD'S THROUGH BLW 2016-05. COMPLIED WITH AD 2005-13-16 BY INSPECTION IN ACCORDANCE WITH PIPOL SERVICE BULLETIN SB1123A ON THE NOSE LANDING GEAR. 50 HOUR INSPECTION NEXT DUE TACH (LEFT): 1044.0 HOURS. 100 HOUR INSPECTION NEXT DUE TACH (LEFT): 1044.0 HOURS. 500 HOUR BOLT REPLACEMENT NEXT DUE ATTACH (LEFT): 1044.0 HOURS. NO OTHER NEW OR RECALLING AD'S DUE AT THIS TIME AND DATE. I CERTIFY THAT THIS AIRCRAFT HAS BEEN INSPECTED IN

**PREFERRED AVIONICS  
AND INSTRUMENTS, LLC**

3679 Bowen Road  
Howell MI 48855  
800-736-6143 Office  
CRS# YPCR724X

**MAINTENANCE RELEASE**

This Aircraft Appliance/Component was repaired and inspected in accordance with current Federal Aviation Requirements and was found air worthy for return to service. Pertinent details of the repair are on file at this agency under:

W.O.No. 5113 Date: 2-10-16

O/H  Repair  F/T

Removed Serviceable  Rebuilt

Other \_\_\_\_\_

Unit: ATTITUDE GYRO

Mfg.: SIGMA-TEK

P/N 23-501-0616

Model 5000B-36 S/N T78869M

Cust: PREFERRED

Reg: N47815

Tech. [Signature]

Insp. By [Signature]

FORM PA 2

1. Approving Civil Aviation Authority/Country <b>Transport Canada</b>		2. <b>AUTHORIZED RELEASE CERTIFICATE FORM ONE</b>			3. Form Tracking No. (YYMMDD-XXX) <b>141125-248</b>
4. Organization Name and Address <b>INSIGHT INSTRUMENT CORPORATION 599 INDUSTRIAL DRIVE FORT ERIE, ONTARIO, CANADA L2A 5M1</b>				5. Work Order/Contract/Invoice <b>N/A</b>	
6. Item	7. Description	8. Part No.	9. Qty.	10. Serial/Batch No.	11. Status/Work
1	TAS 1000	1000-001	1	00466	NEW
12. Remarks NONE					
13a. Certifies that the items identified above were manufactured in conformity to:					
<input checked="" type="checkbox"/> Approved design data and are in a condition for safe operation. <input type="checkbox"/> Non-approved design data specified in block 12.					
12b. Signature <i>[Signature]</i>		12c. Approved Organization Number 42-90			
12d. Name <b>D MABLETTE</b>		12e. Date (dd/mm/yyyy) <b>25 NOV 2014</b>			
Important: See notes					
<b>Installer Responsibilities</b>					
<p>This certificate does not constitute authority to install.</p> <p>Installers working in accordance with the national regulations of a country other than that specified in block 1 must ensure that their regulations recognize certifications from the country specified.</p> <p>Statements in blocks 12a or 14a do not constitute installation certification. In all cases, the technical record for the aircraft must contain an installation certification issued in accordance with the applicable national regulations before the aircraft may be flown.</p>					



YEAR:	RECORDING TACH TIME	TODAYS FLIGHT	TOTAL TIME IN SERVICE	Description of Inspections, Tests, Repairs and Alterations Entries must be endorsed with Name, Rating and Certificate Number of Technician or Repair Facility. (See back pages for other specific entries.)
DATE				
				<p>ACCORDANCE WITH AN ANNUAL INSPECTION AND WAS DETERMINED TO BE IN AIRWORTHY CONDITION. <i>[Signature]</i> A&amp;P 385847988 IA.</p>

PREFERRED AVIONICS & INSTRUMENTS LLC 3679 Bowen Road Howell, MI 48855 YPCR724X  
 LOG ID# 969 19-April-2016 WO# 5196  
 N47815 S/N 34-7870004 PIPER PA-34-200T

Pg 1 / 1

\*\*\*\* ITEM # 5196-1 REPLACE ATTITUDE GYRO \*\*\*\*  
 DISCREPANCY: REPLACE ATTITUDE GYRO  
 Model: 5000 E-9 Part#: 23-501-05-2 Serial#: X44398HZ  
 ACTION: Removed Attitude gyro and installed overhauled unit. Ramp test verified proper operation.

Gyro off: P/N: 23-501-05-2 S/N: X44396HZ  
 Gyro on: P/N: 23-501-06-16 S/N: T78869N

*[Signature]* 19 APR 2016  
 Signed YPCR724X DAVID REZANKA Date


PREFERRED AVIONICS & INSTRUMENTS LLC 3679 Bowen Road Howell, MI 48855 YPCR724X  
 LOG ID# 977 05-May-2016 WO# 5258 HOBBS 3925.2  
 N47815 S/N 34-7870004 PIPER PA-34-200T

Pg 1 / 1

\*\*\*\* ITEM # 5258-1 SANDIA INSTALL \*\*\*\* DISCREPANCY: SANDIA INSTALL  
 ACTION: Installed customer supplied Sandia SAI-340 P/N: 306171-00 S/N: 350 in accordance with Manufacturers Install Manual P/N: 306181-00 Rev. 2 dated 1/22/2016. This unit is installed as a secondary system in the right hand panel. Unit was tested to comply with Install requirements in section 3 of Install Manual. Static system tests required by FAR 91.411 have been performed. All ground tests ok. Verified proper operation.

*[Signature]* 05 MAY 16  
 Signed YPCR724X RANDALL WELLER Date

YEAR:	RECORDING TACH TIME	TODAYS FLIGHT	TOTAL TIME IN SERVICE	Description of Inspections, Tests, Repairs and Alterations
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DATE	
	<p>Replaced LT main tire with a new Michelin 600-6/8 p/n: 070-317-0, s/n: 4274S00031 dated 06 Oct 2014 and balanced. Replaced both LT &amp; RT wing tip clear lens P/N: RD-5001-L &amp; RD-5001-R from Knots 2U, Ltd.</p> <p>Gregory E. Smith A&amp;P 369544480 IA </p>

Huron Avionics, Inc. 140 N AIRPORT DR. H4NR191N KIMBALL, MI 48074 H4NR191N  
 LOG ID# 2853 26-July-2016 WO# 2953  
 N47815 S/N 34-7870004 PIPER PA-34-200T

Pg 1 / 1

REMOVED DEFECTIVE GARMIN GTX33 ES TRANSPONDER AND INSTALLED WARRANTY REPLACEMENT GTX33 ES TRANSPONDER P/N D10-N0267-30 S/N 89123516. CONFIGURED AS REQUIRED, TESTED, CERTIFIED AND RETURNED TO SERVICE

NO CHANGE IN WEIGHT AND BALANCE.

I CERTIFY THAT THE ATC TRANSPONDER WAS TESTED AND INSPECTED AS PER FAR 91.413 I.A.W. PART 43, APPENDIX F. TRANSPONDER MAKE/MODEL: GARMIN GTX33 THE STATIC AND AUTOMATIC PRESSURE ALTITUDE REPORTING SYSTEMS WERE TESTED AND INSPECTED PER FAR 91.411 I.A.W. PART 43 APPENDIX E, PARAGRAPHS A AND C RESPECTIVELY TO: 20K FT.

  
 Signed WILLIAM C MCKELVEY

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9/21/2019 Tach: 4173 5 N47815

Replaced the following brake parts, (2) brake rotors p/n 164-21600, (8) brake pads p/n 66-06200, (4) o-rings p/n MS28775-222 and right main tire Michelin 6.00-6/8/120 Bleed both brakes with 5606 oil I certify that this aircraft is airworthy and return to service.

Gregory E. Smith A&P 369544480 IA 

YEAR:	RECORDING TACH TIME	TODAYS FLIGHT	TOTAL TIME IN SERVICE	Description of Inspections, Tests, Repairs and Alterations Entries must be endorsed with Name, Rating and Certificate Number of Technician or Repair Facility. (See back pages for other specific entries.)
DATE				
10-7-16	LEFT TACH: 1179.5	RIGHT TACH: 1180.8		<p>COMPLIED WITH AD 2005-13-16 IN ACCORDANCE WITH PIPER SERVICE BULLETIN NO. 1123B. REPLACED UPPER DRAG LINK-TO-NOSE GEAR TRUNNION BOLT STACK UP WITH THE FOLLOWING PARTS: AN7-35 BOLT (1 EACH), AN960-716L (1 EACH), AN960-716 (2 EACH), AN320-7 NUT (1 EACH), 424-085 CORTEX PIN (1 EACH). 50 HOUR INSPECTION NEXT DUE TACH (LEFT): 1229.5 HOURS. 100 HOUR INSPECTION NEXT DUE TACH (LEFT): 1279.5 HOURS. MANDATORY BOLT STACK UP REPLACEMENT NEXT DUE TACH (LEFT): 1679.5 HOURS. AIRCRAFT APPROVED FOR RETURN TO SERVICE.</p> <p><i>[Signature]</i> AEP 385847988 IA.</p>
10-7-16	LEFT TACH: 1179.5	RIGHT TACH: 1180.8		<p>INSTALLED WHEELWING TIP POSITION ANTI-COLLISION LIGHT HEADS MODEL OR6501G, PIN: 01-0790725-01, S/N: 00923 AND MODEL OR6501R, PIN: 01-0790725-02, S/N: 00915. INSTALLATION WAS PERFORMED IN ACCORDANCE WITH FAA AC NO. 20-41A AND AC 43.13 1B AND 2A. THIS INSTALLATION IS CONSIDERED A MINOR ALTERATION AND NO FORM 337 IS REQUIRED. WEIGHT AND BALANCE CHANGE NEGLIGIBLE.</p>

YEAR:	RECORDING TACH TIME	TODAYS FLIGHT	TOTAL TIME IN SERVICE	Description of Inspections, Tests, Repairs and Alterations Entries must be endorsed with Name, Rating and Certificate Number of Technician or Repair Facility. (See back pages for other specific entries.)
DATE				
				AIRCRAFT APPROVED FOR RETURN TO SERVICE. <i>[Signature]</i> A&P 385847988 IA.
10-22-16				LEFT TACH TIME: 1189.0 RIGHT TACH TIME: 1190.6 INSTALLED THE FOLLOWING FUEL TANK SENSORS THAT WERE RECENTLY OVERHAULED: PIN: 7740-00040 / P# 10013-5      S/N: 163461 PIN: 7740-00041 / P# 10013-6      S/N: 162107 PIN: 7740-00040 / P# 10013-5      S/N: 153394 PIN: 7740-00041 / P# 10013-6      S/N: 154234 OPERATIONAL CHECK MANUAL OF FUEL QUANTITY GAUGES. USED ALL NEW GASKETS AND SEALS FOR INSTALLING FUEL SENSORS. LEAK CHECK OK. <i>[Signature]</i> A&P 385847988 IA.

YEAR: DATE	RECORDING TACH TIME	TODAYS FLIGHT	TOTAL TIME IN SERVICE	Description of Inspections, Tests, Repairs and Alterations Entries must be endorsed with Name, Rating and Certificate Number of Technician or Repair Facility. (See back pages for other specific entries.)
10-27-16	LEFT TACH TIME: 1191.5			RIGHT TACH TIME: 1192.9 INSTALLED NEW APEX LEFT AND RIGHT FUEL QUANTITY GAUGES P/N: 6246-00131 (2 EACH), FUNCTION CHECK NORMAL. <i>Gregory E. Smith</i> A&P 385847988 IA.

12/29/2016 Left tach: 1234.4 Right tach: 1236.5

Complied with AD 2005-13-13 IAW SB 1123A table 1 item #9 IAW Pipers MM lubrication chart on nose gear assemble. SB1123A item #9 due every 50hrs. Due next @ 1284 hrs / 1286hrs.

I certify that this aircraft is airworthy and return to service.

Gregory E. Smith 369544480 IA

*Gregory E. Smith*

3-19-17	LH TACH: 1271.5	RH TACH: 1273.9		AIROCKET TOTAL TIME (USING LEFT TACH): 6352.9. PERFORMED ANNUAL INSPECTION IN ACCORDANCE WITH PA34-LOOT SERVICE MANUAL AND FAR PART 43 APPENDIX D. THE FOLLOWING MAINTENANCE WAS PERFORMED INSPECTED AIRFRAME & STRUCTURE. INSPECTED ALL FLIGHT CONTROLS, CABLES AND PULLEYS. CHECKED ALL CABLE TENSIONS. LUBRICATED ALL HWAES, PULLEYS AND PIVOT POINTS.
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YEAR:	RECORDING TACH TIME	TODAYS FLIGHT	TOTAL TIME IN SERVICE	Description of Inspections, Tests, Repairs and Alterations Entries must be endorsed with Name, Rating and Certificate Number of Technician or Repair Facility. (See back pages for other specific entries.)
DATE				
				INSPECTED UNDER REAR SEATS AND INSTRUMENT PANEL. INSPECTED RUDDER PEDAL ASSEMBLIES AND SERVICED BRAKE RESERVOIR. CLEANED AND TREATED AIR FILTERS.
				INSPECTED ALL ELECTRICAL, WIRING AND FLUID LINES. INSPECTED BATTERY AND BATTERY BOX. INSPECTED AND FUNCTION TESTED EIT PER FAR PART 91.207 (d) AND AITEX OPERATION INSTRUCTIONS AND FOUND GOOD. EIT BATTERY DYE REPLACEMENT
				OCTOBER 2020. INSPECTED AND SERVICED LANDING GEAR HYDRAULIC POWER PACK.
				INSPECTED AND FUNCTION TESTED PNEUMATIC DEICER SYSTEM, PROPELLER DEICER SYSTEM AND HEATED WINDSHIELD PLATE. INSPECTED LANDING GEAR, WHEELS, TIRES AND BRAKES. REPACKED ALL WHEEL BEARINGS. PERFORMED LANDING RETRACTION AND EXTENSION CHECKS THROUGH 6 CYCLES. PERFORMED LANDING GEAR EMERGENCY EXTENSION CHECK. CHECKED LANDING GEAR WARNING SYSTEM FOR PROPER OPERATION.
				LUBRICATED AND WASHED LANDING GEAR. CHECKED LANDING GEAR PLACING IN ACCORDANCE WITH PIPER PA34-200T SERVICE MANUAL. INSPECTED AND FUNCTION TESTED COMBUSTION HEATER ASSEMBLY. INSPECTED AND CLEANED FUEL STRAINERS.
				INSTALLED LOPRESTI SPEED MOUNTAIN'S SEVECA NOSE BOWES (ISSUED UNDER SEC NUMBER SA 01206AT. SEE FORM 337 THIS DATE. CHECKED ADS THROUGH BI-WEEKLY

YEAR: DATE	RECORDING TACH TIME	TODAYS FLIGHT	TOTAL TIME IN SERVICE	Description of Inspections, Tests, Repairs and Alterations Entries must be endorsed with Name, Rating and Certificate Number of Technician or Repair Facility. (See back pages for other specific entries.)
				2017-06. COMPLETED WITH AD 2005-13-16, PARAGRAPH (E)(2), 100 HOUR AND 50 HOUR INSPECTIONS IN ACCORDANCE WITH PIPER SERVICE BULLETIN NO. 1123C. 100 HOUR INSPECTION NEXT DUE TACH (LEFT): 1371.5. 50 HOUR LUBRICATION NEXT DUE TACH (LEFT): 1321.5 HOURS. PARAGRAPH (E)(1) (MANDATORY BOLT STACK-UP REPLACEMENT) NEXT DUE TACH (LEFT): 1679.5 HOURS (EVERY 500 HOURS). NO OTHER NEW OR REWORKING AD'S DUE AT THIS TIME AND DATE. I CERTIFY THAT THIS AIRCRAFT HAS BEEN INSPECTED IN ACCORDANCE WITH AN ANNUAL INSPECTION AND WAS DETERMINED TO BE IN AIRWORTHY CONDITION. <i>[Signature]</i> AIP 385847988 JA.

Huron Avionics, Inc. 140 N. AIRPORT DR. H4NR191N KIMBALL, MI 48074 H4NR191N  
LOG ID# 2942 22-March-2017 WO# 3101 HOBBS 4172.0  
N47815 S/N 34-7870004 PIPER PA-34-200T

Pg 1 / 1

I CERTIFY THAT THE ATC TRANSPONDER WAS TESTED AND INSPECTED AS PER FAR 91.413 I.A.W. PART 43, APPENDIX F. TRANSPONDER MAKE/MODEL: GARMIN GTX33ES THE STATIC AND AUTOMATIC PRESSURE ALTITUDE REPORTING SYSTEMS WERE TESTED AND INSPECTED PER FAR 91.411 I.A.W. PART 43 APPENDIX E, PARAGRAPHS A AND C RESPECTIVELY TO: 20K FT.

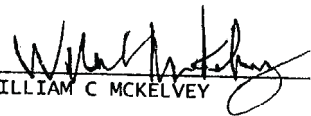
I CERTIFY THAT THE ALTIMETER SYSTEMS WERE TESTED AND INSPECTED AS PER FAR 91.411 I.A.W. PART 43, APPENDIX E, PARAGRAPH B. ALTIMETER TESTED BY: HURON AVIONICS, INC. TO: 20K FT. DATE TESTED: MARCH 22, 2017

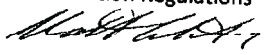
*[Signature]*  
Signed WILLIAM C MCKELVEY

YEAR:	RECORDING TACH TIME	TODAYS FLIGHT	TOTAL TIME IN SERVICE	Description of Inspections, Tests, Repairs and Alterations
DATE				Entries must be endorsed with Name, Rating and Certificate Number of Technician or Repair Facility. (See back pages for other specific entries.)


Huron Avionics, Inc. 140 N. AIRPORT DR. H4NR191N KIMBALL, MI 48074 H4NR191N  
 LOG ID# 2954 13-April-2017 WO# 3117  
 N47815 S/N 34-7870004 PIPER PA-34-200T Pg 1 / 1

REMOVED AND REPLACED INSIGHT TAS1000 OAT PROBE, REINSTALLED THE TAS1000, CONFIRMED CONFIGURATION, TESTED AND RETURNED TO SERVICE.

  
 Signed WILLIAM C MCKELVEY

5/11/2017 N47815 Left Tach 1323.7 Installed Stratus Power USB hubs P/N 153010-000029 S/N 055836, 055837 in the lower instrument panel IAW with installation instructions. Installed a new 10 amp circuit breaker and 20 gauge wire for both units. The work on the Aircraft/component identified above was accomplished in accordance with the current Federal Aviation Regulations and is approved for return to service. -END-  
 AP 2725134 Matt Lahti 

\_\_\_\_\_

5/19/2017  
 Installed placard on pilot side instrument panel stating aircraft "MAXIMUM OCCUPANCY 6"  
 See 337 form.  
 Gregory E. Smith A&P369544480 

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YEAR:	RECORDING TACH TIME	TODAYS FLIGHT	TOTAL TIME IN SERVICE	Description of Inspections, Tests, Repairs and Alterations Entries must be endorsed with Name, Rating and Certificate Number of Technician or Repair Facility. (See back pages for other specific entries.)
DATE				
S-27-17	LEFT TACH: 1341.7			COMPLIES WITH AD 2005-13-16 50 HOUR LUBRICATION ON NOSE GEAR. NEXT DUE LEFT TACH: 1391.7 HOURS. <i>Gregory E. Smith</i> A&P 305B47908 IA.

5/19/2017 Tach: 1355.5  
 Removed old pump 441CC-17 s/n 140737. Installed OH pump 441CC s/n 0C6S01.  
 Gregory E. Smith A&P369544480 *Gregory E. Smith*

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7/6/2017 tach: 1367.1  
 Replaced both main tires and tubes 600X6-8 Condors and balanced wheels. Cleaned and greased bearings with Mobil #28.  
 Gregory E. Smith A&P369544480 *Gregory E. Smith*

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YEAR:	RECORDING TACH TIME	TODAYS FLIGHT	TOTAL TIME IN SERVICE	Description of Inspections, Tests, Repairs and Alterations Entries must be endorsed with Name, Rating and Certificate Number of Technician or Repair Facility. (See back pages for other specific entries.)
DATE				
8-1-17	LEFT TACH: 1379.5			INSTALLED SERVICEABLE ELECTRIC CLOCK. COMPLIED WITH AD 2005-13-16 IN ACCORDANCE WITH PIPER SERVICE BULLETIN NO. 1123C, PARAGRAPH (e)(2), 50 HOUR LUBRICATION AND 100 HOUR INSPECTION. 50 HOUR LUBRICATION NEXT DUE TACH (LEFT): 1429.5 HOURS. 100 HOUR INSPECTION NEXT DUE TACH (LEFT): 1479.5 HOURS. <i>Gregory E. Smith</i> AEP 385847988 IA.

09/16/2017 Left tach: 1445.3

Complied with AD 2005-13-16 IAW SB 1123A table 1 items # 1,2,4 thru 14 every 100hrs and Pipers MM lubrication chart on nose gear assemble due next @ 1545hrs.. I certify that this aircraft is airworthy and return to service.

*Gregory E. Smith*  
Gregory E. Smith 369544480 IA

12/11/2017 Left tach: 1501.5 N47815

Complied with 50hr inspection IAW SB 1123A per AD 05-13-16 table 1 item #12 IAW Pipers MM lubrication chart on nose gear assemble. I certify that this aircraft is airworthy and return to service.

*Gregory E. Smith*  
Gregory E. Smith 369544480 IA

YEAR:	RECORDING TACH TIME	TODAYS FLIGHT	TOTAL TIME IN SERVICE	Description of Inspections, Tests, Repairs and Alterations Entries must be endorsed with Name, Rating and Certificate Number of Technician or Repair Facility. (See back pages for other specific entries.)
DATE				

02/14/2018 Left tach: 1544.8 N47815

Complied with AD 2005-13-16 IAW SB 1123A table 1 items # 1,2,4 thru 14 every 100hrs and Pipers MM lubrication chart on nose gear assemble due next @ 1645hrs. I certify that this aircraft is airworthy and return to service.

Gregory E. Smith 369544480 IA



02/23/2018 Tach: 1553.8

N47815

Replaced LT wing tip light p/n H7604.

Gregory E. Smith A&P369544480



3-17-18	LEFT TACH: 1577.0	RIGHT TACH: 1577.3	AIRCRAFT TOTAL TIME: 6654.4 (LEFT TACH)	
	PERFORMED ANNUAL INSPECTION IN ACCORDANCE WITH SENECA II SERVICE MANUAL AND FAR PART 43 APPENDIX D. THE FOLLOWING MAINTENANCES WAS PERFORMED: INSPECTED AIRFRAME & STRUCTURE. INSPECTED ALL FLIGHT CONTROLS, CABLES AND PULLEY'S. CHECKED ALL CABLE TENSIONS. LUBRICATED ALL HINGES, PULLEY'S AND PIVOT POINTS. INSPECTED ALL ELECTRICAL			

YEAR: DATE	RECORDING TACH TIME	TODAYS FLIGHT	TOTAL TIME IN SERVICE	Description of Inspections, Tests, Repairs and Alterations Entries must be endorsed with Name, Rating and Certificate Number of Technician or Repair Facility. (See back pages for other specific entries.)
				<p>WIRING AND FLUID LINES. INSPECTED UNDER FLOOR AND INSTRUMENT PANEL. INSPECTED RUBBER PEDAL ASSEMBLY AND SERVICED BRAKE RESERVOIR. CLEANED AND TREATED AIR FILTERS. REBULBED RH TAXI LIGHT P/N: GE4509. INSPECTED BATTON AND BATTON BOX. INSPECTED AND FUNCTION TESTED ELT FOR FAR PART 91.207(d) AND FOUND GOOD. EX BATTON AVE REPLACEMENT OCTOBER 2020. INSTALLED NEWLY OVERHAULED ALTERNATOR DRIVE COUPLERS P/N: 635796 (2 EACH) S/N'S: 111185, 111152. INSPECTED AND SERVICED LANDING GEAR HYDRAULIC POWER PACK. INSPECTED AND FUNCTION TESTED PNEUMATIC DEICER SYSTEM, PROPELLOR DEICER SYSTEM AND HEATED WINDSHIELD PLATE. INSPECTED AND FUNCTION TESTED COMBUSTION HEATER ASSEMBLY. INSPECTED LANDING GEAR, WHEELS, TIRES AND SHOCKS. REPACKED ALL WHEEL BEARINGS. INSTALLED NEW BRAKE DISCS P/N: RA164-21600 (2 EACH) AND NEW BRAKE LININGS P/N: 066-06200 (8 EACH). INSTALLED MISSING SEAT STOPS. PERFORMED LANDING GEAR RETRACTION AND EMERGENCY EXTENSION CHECKS THROUGH 8 CYCLES. CHECKED LANDING GEAR WARNING SYSTEM FOR PROPER OPERATION. CHECKED LANDING GEAR RIGGING FOR PARTS GENERAL II SERVICE MANUAL. WASHED AND LUBRICATED LANDING GEAR. INSPECTED AND CLEANED FUEL STRAINERS. CHECKED AID'S THROUGH BI-WEEKLY ZOLB-06. COMPLETED</p>

YEAR:	RECORDING TACH TIME	TODAYS FLIGHT	TOTAL TIME IN SERVICE	Description of Inspections, Tests, Repairs and Alterations Entries must be endorsed with Name, Rating and Certificate Number of Technician or Repair Facility. (See back pages for other specific entries.)
DATE				
				<p>WITH THE FOLLOWING AD'S: 2005-13-16 IN ACCORDANCE WITH PIPER SERVICE BULLETIN NO. 1123, PARAGRAPH (B)(2), 50 HOUR LUBRICATION AND 100 HOUR INSPECTION. 50 HOUR LUBRICATION NEXT DUE AT 1623.0 HOURS (LEFT TACH). 100 HOUR INSPECTION NEXT DUE AT 1673.0 HOURS (LEFT TACH). MANDATORY BOLT STACK-UP REPLACEMENT NEXT DUE AT 1679.5 HOURS (LEFT TACH). NO OTHER NEW OR RECOMMENDED AD'S ARE AT THIS TIME &amp; DATE. I CERTIFY THAT THIS AIRCRAFT HAS BEEN INSPECTED IN ACCORDANCE WITH AN ANNUAL INSPECTION AND WAS DETERMINED TO BE IN AIRWORTHY CONDITION.</p> <p><i>E. J. H. A#P 305847908 IA.</i></p>

Huron Avionics, Inc. 140 NORTH AIRPORT DR.. H4NR191N KIMBALL, MI 48074 H4NR191N  
 LOG ID# 3140 02-May-2018 WO# 3361 HOBBS 4531.6  
 N47815 S/N 34-7870004 PIPER PA-34-200T

REMOVED EXISTING GARMIN GTN750 P/N 011-02282-00 S/N 1ZA000609. INSTALLED NEWLY OVERHAULED GARMIN GTN750 P/N 010-N0820-00 S/N 1ZA020847. CONFIGURED AS REQUIRED AND RETURNED TO SERVICE. UPDATED GARMIN GTN650 OPERATING SOFTWARE FROM VERSION 6.21 TO VERSION 6.41 I.A.W. GARMIN SOFTWARE SERVICE BULLETIN NO.: 1722 REV A. UPDATED GARMIN GTX33ES OPERATING SOFTWARE FROM VERSION 8.02 TO VERSION 8.04 I.A.W. GARMIN SOFTWARE SERVICE BULLETIN NO.: 1734 REV A. UPDATED GARMIN GDL88 OPERATING SOFTWARE FROM VERSION 3.33 TO VERSION 3.41 I.A.W. GARMIN SOFTWARE SERVICE BULLETIN NO.: 1809 REV A.

Signed H4NR191N *William C Mckelvey*  
 WILLIAM C MCKELVEY

YEAR:	RECORDING TACH TIME	TODAYS FLIGHT	TOTAL TIME IN SERVICE	Description of Inspections, Tests, Repairs and Alterations Entries must be endorsed with Name, Rating and Certificate Number of Technician or Repair Facility. (See back pages for other specific entries.)
5-18-18			1621.4	<p>COMPLIED WITH AD 2005-13-16 IN ACCORDANCE WITH PIPER SERVICE BULLETIN NO. 1123C BY MANDATORY BOLT STACK-UP REPLACEMENT. INSTALLED THE FOLLOWING PARTS: AN7-35 BOLT (1 EACH), AN960-716 L (1 EACH), AN960-716 (2 EACH), AN320-7 NUT (1 EACH), A24-085 COTTER PIN (1 EACH). 50 HOUR LUBRICATION NEXT DUE AT LEFT TACH TIME: 1671.4 HOURS. 100 HOUR INSPECTION NEXT DUE AT LEFT TACH TIME: 1721.4 HOURS. 500 HOUR MANDATORY BOLT STACK-UP REPLACEMENT NEXT DUE AT LEFT TACH TIME: 2121.4 HOURS. PERFORMED LANDING GEAR RETRACTION AND EXTENSION THROUGH 8 CYCLES.</p> <p><i>Gregory E. Smith</i> ADP 385847900 IA.</p>

6/14/2018 Tach 1666.8

N47815

Complied with AD 2005-13-13 IAW SB 1123A table 1 item #12 due every 50hrs. Due next at 1716.8hrs. Replaced both main tires and balanced with Condor 600X6-8.

I certify that this aircraft is air worthy and return to service.

Gregory E. Smith A&P369544480

*Gregory E. Smith*

YEAR:	RECORDING TACH TIME	TODAYS FLIGHT	TOTAL TIME IN SERVICE	Description of Inspections, Tests, Repairs and Alterations: Entries must be endorsed with Name, Rating and Certificate Number of Technician or Repair Facility. (See back pages for other specific entries.)
DATE				

Huron Avionics, Inc. 140 NORTH AIRPORT DR.. H4NR191N KIMBALL, MI 48074 H4NR191N  
 LOG ID# 3151 22-June-2018 WO# 3369 HOBBS 1701 0  
 N47815 S/N 34-7870004 PIPER PA-34-200T

Pg

ACCESSED AVIONICS BUSS RELAYS, CLEANED AND TENSIONED SPADE TERMINAL CONNECTIONS. TESTED AND VERIFIED PROBLEM RESOLVED.

PERFORMED VOR ACCURACY CHECK, #1 AND #2 VOR ERROR PLUS OR MINUS ONE DEGREE. RERUN TO SERVICE

  
 Signed H4NR191N WILLIAM C MCKELVEY

7-8-18	LEFT TACH: 1720.9 COMPLIED WITH AD 2005-13-16 (100 HOUR INSPECTION) IN ACCORDANCE WITH ADEL MANDATORY SERVICE BULLETIN NO. 1123C. NO DEFECTS NOTED. NEXT DUE LEFT TACH: 1820.9 HOURS.		

YEAR:	RECORDING TACH TIME	TODAYS FLIGHT	TOTAL TIME IN SERVICE	Description of Inspections, Tests, Repairs and Alterations Entries must be endorsed with Name, Rating and Certificate Number of Technician or Repair Facility. (See back pages for other specific entries.)
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Huron Avionics, Inc. 140 NORTH AIRPORT DR.. H4NR191N KIMBALL, MI 48074 H4NR191N  
 LOG ID# 3222 04-October-2018 WO# 3424  
 N47815 S/N 34-7870004 PIPER PA-34-200T

Pg 1 / 1

UPDATED GARMIN GTN750/650 MAIN OPERATING SOFTWARE FROM VERSION 6.41 TO VERSION 6.50. TESTED AND RETURNED TO SERVICE.

I CERTIFY THAT THE ATC TRANSPONDER WAS TESTED AND INSPECTED AS PER FAR 91.413 I.A.W. PART 43, APPENDIX F. TRANSPONDER MAKE/MODEL:GARMIN GTX33ES THE STATIC AND AUTOMATIC PRESSURE ALTITUDE REPORTING SYSTEMS WERE TESTED AND INSPECTED PER FAR 91.411 I.A.W. PART 43 APPENDIX E, PARAGRAPHS A AND C RESPECTIVELY TO: 20K FT.

I CERTIFY THAT THE ALTIMETER SYSTEMS WERE TESTED AND INSPECTED AS PER FAR 91.411 I.A.W. PART 43, APPENDIX E, PARAGRAPH B. ALTIMETER TESTED BY:HURON AVIONICS, INC. TO: 20K FT. DATE TESTED: OCTOBER 4, 2018.

  
 Signed H4NR191N WILLIAM C MCKELVER

10/12/2018 LH tach: 1822.8 N47815

Complied with 50hr inspection IAW SB 1123A per AD 05-13-16 table 1 item #12 IAW Pipers MM lubrication chart on nose gear assemble. Replaced RH wing tip light p/n H7604. I certify that this aircraft is airworthy and return to service.

Gregory E. Smith 369544480 IA



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YEAR: 2019 DATE	TOTAL TIME IN SERVICE	Reference of Major Repairs and Major Alterations To FAA Form ACA-337 by Date, or to the Work Order by Number and the Approving Agency
2-18-19	LEFT TACH: 1869.8 RIGHT TACH: 1871.4 AIRCRAFT TOTAL TIME (LEFT TACH): 6946.2.	<p>PERFORMED ANNUAL INSPECTION IN ACCORDANCE WITH ADOP PA34-2007 SERVICE MANUAL AND CAR PART 43 APPENDIX D. THE FOLLOWING MAINTENANCE WAS PERFORMED: INSPECTED AIRFRAME AND STRUCTURE, INSPECTED ALL FLIGHT CONTROLS, CABLES AND PULLEYS. CHECKED ALL CABLE TENSIONS. LUBRICATED ALL SLIDES, PULLERS AND PIVOT POINTS. INSPECTED ALL ELECTRICAL, WIRING AND FLUID CARRYING LINES. INSPECTED UNDER FLOOR AND INSTRUMENT PANEL. INSPECTED RUDER PEGS AND ASSEMBLIES AND SERVICED BRAKE RESERVOIR. CLEANED AND TREATED AIR FILTERS. INSPECTED BATTERY AND BATTERY HOG. INSPECTED AND FUNCTION TESTED ELT PER FAR PART 91.207 (c) AND FOUND GOOD. BT BATTERY DUE REPLACEMENT OCTOBER 2020. INSPECTED AND SERVICED LANDING GEAR NOSE ASSEMBLY. INSPECTED AND FUNCTION TESTED PNEUMATIC DECEL SYSTEM, PROPELLER AD VALVE SYSTEM AND ELECTRIC WINDSHIELD HOT PLATE FOR NORMAL OPERATION. INSPECTED AND FUNCTION TESTED COMBUSTION HEATER ASSEMBLY. INSPECTED LANDING GEAR, WHEELS, TUBES AND BRACKETS. INSTALLED NEW BRACK LINDAS P/N: RA66-06200 (2 EACH) AND INSTALLED NEW CONSOLE TUBES P/N: 012-319-0 (2 EACH) ON LEFT &amp; RIGHT MAIN GEAR WHEELS USING SERVICEABLE TUBES. PERFORMED LANDING GEAR RESTRICTION AND</p>

YEAR:	TOTAL TIME IN SERVICE	Reference of Major Repairs and Major Alterations To FAA Form ACA-337 by Date, or to the Work Order by Number and the Approving Agency
DATE		
		<p>EMERGENCY EXTENSION CHECKS THROUGH B CABLES, CHECKED LANDING GEAR WARNING SYSTEM FOR PROPER OPERATION. CHECKED LANDING GEAR RISING PER PIPER PA54-2007 SERVICE MANUAL. WORKED AND LUBRICATED LANDING GEAR. INSPECTED AND CLEANED FUEL STRAINERS. INSTALLED NEW OIL PRESSURE SWITCH IN LEFT ENGINE NACELLE. CHECKED A/D'S THROUGH BI-WEEKLY 2019-09. COMPLIED WITH THE FOLLOWING A/D'S:</p> <p>2005-13-16 IN ACCORDANCE WITH PIPER SERVICE BULLETIN NO. 1123C, PARAGRAPH (e)(2), 50 HOUR LUBRICATION AND 100 HOUR INSPECTION. 50 HOUR LUBRICATION NEXT DUE AT LEFT TACH: 1914.8 HOURS. 100 HOUR INSPECTION NEXT DUE LEFT TACH: 1964.8 HOURS. MANDATORY BOLT STACK-UP REPLACEMENT NEXT DUE LEFT TACH: 2121.4 HOURS. NO OTHER NEW OR RECURRING A/D'S DUE AT THIS TIME AND DATE.</p> <p>I CERTIFY THAT THIS AIRCRAFT HAS BEEN INSPECTED IN ACCORDANCE WITH AN ANNUAL INSPECTION AND WAS DETERMINED TO BE IN AIRWORTHY CONDITION.</p> <p style="text-align: center;"><i>[Signature]</i> AEP 385847988 IA.</p>

YEAR:

TOTAL  
TIME IN  
SERVICE**Reference of Major Repairs and Major Alterations To**

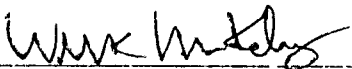
FAA Form ACA-337 by Date, or to the Work Order by Number and the Approving Agency

DATE

Huron Avionics, Inc. 140 NORTH AIRPORT DR.. H4NR191N KIMBALL, MI 48074 H4NR191N  
 LOG ID# 3264 19-April-2019 WO# 3528  
 N47815 S/N 34-7870004 PIPER PA-34-200T

Pg 1/1

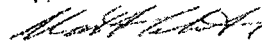
UPDATED GARMIN GTN750 AND GTN650 MAIN OPERATING SOFTWARE FROM VERSION 6.41 TO VERSION 6.51 I.A.W. GARMIN SOFTWARE SERVICE BULLETIN NUMBER 1879 REV A TO COMPLY WITH GARMIN MANDATORY SERVICE BULLETIN DATED OCTOBER 25, 2018. UPDATED FLIGHTSTREAM 210 FIRMWARE TO CURRENT VIA GARMIN PILOT. TESTED ALL AND RETURNED TO SERVICE.



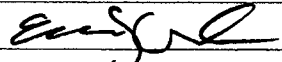
Signed H4NR191N WILLIAM C MCKELVEY

7/16/2019 N47815 Left engine Tach 1974.6 Removed existing Insight G4 engine analyzer with all probes and wiring harness. Installed JPI EDM 960 primary twin engine data management system, Installed IAW STC SA01828SE, see 337 dated this date. Replaced all fuel senders with overhauled units, right outboard P/N PS10013-6 S/N 191469, left outboard P/N PS10013-6 S/N 191488, right inboard P/N PS10013-5 S/N 192070, left inboard P/N PS10013-5 S/N 191599. The work on the Aircraft/component identified above was accomplished in accordance with the current Federal Aviation Regulations and is approved for return to service. --END--

AP 2725134 Matt Lahti

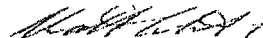


7/21/19	Left Tach	1999.4 Performed full load test of SANDIA 340 on battery for more than 2 hours
	Set Pilot	configurable options on JPI 960: K-FACTORS, MAP ADJUST, HP CONSTANT,
	Tested for	EMI interference - none found, Jim Finn, 0238721

YEAR:	A.D. NUMBER	TOTAL TIME IN SERVICE	<b>Airworthiness Directives</b> Chronological Listing of Compliance and Method of Compliance
DATE			
8-7-19	LEFT TACH: 2007.6 RIGHT TACH: 2018.6 COMPLIED WITH AD 2005-13-16 IN ACCORDANCE WITH PIPER SERVICE BULLETIN NO. 1123C BY MANDATORY NOSE GEAR BOLT STACK-UP REPLACEMENT. INSTALLED THE FOLLOWING PARTS: AN7-35 (1 EACH), AN960-716L (2 EACH), AN960-716 (2 EACH), AN 320-7 (1 EACH), 429-085 (1 EACH). 50 HOUR LUBRICATION NEXT DUE LEFT TACH: 2057.6 HOURS. 100 HOUR INSPECTION NEXT DUE LEFT TACH: 2107.6 HOURS. 500 HOUR MANDATORY BOLT STACK-UP NEXT DUE LEFT TACH: 2507.6 HOURS. PERFORMED LANDING GEAR RETRACTION AND EXTENSION THROUGH 6 CYCLES. INSTALLED NEW INFLATABLE DOOR SEAL HOSES ON FORWARD REAR DOOR AND MAIN CABIN DOOR. RESEALED ALL SIDE WINDOWS.   A# 305847988 IA.		

8/22/2019 N47815 Left Tach 2013.7 Replaced Precise flight pulse light module with new unit P/N 1210/2405-2A, S/N J 10231. Replaced existing landing and taxi lights with new LED landing lights on both wing tips and a landing light and taxi light on nose gear with Whelen Parmetheus Plus, landing light Model P36P1L, taxi light P36P1T. The work on the Aircraft/component identified above was accomplished in accordance with the current Federal Aviation Regulations and is approved for return to service. -END-

AP 2725134 Matt Lahti



<b>YEAR:</b>	<b>A.D. NUMBER</b>	<b>TOTAL TIME IN SERVICE</b>	<b>Airworthiness Directives</b> Chronological Listing of Compliance and Method of Compliance
<b>DATE</b>			

12/10/2019 LT Tach 2051.2

N47815

Replaced both main tires Condors 600X6-8. Cleaned, inspected and greased wheel bearings with Mobil#28. Replaced pressure pump with new Rapco 441CC-7, s/n C5036 and filter AA2J4-6 on **left** engine. I certify this aircraft to be airworthy and return to service.

Gregory E.Smith A&P369544480 IA

## CUSTOMER WARRANTY REQUEST

Owner

Name \_\_\_\_\_  
 Company \_\_\_\_\_  
 Address \_\_\_\_\_  
 City \_\_\_\_\_ St \_\_\_\_\_ Zip \_\_\_\_\_

**IMPORTANT!**  
 This card must be completed and returned with non-returnable pump for warranty consideration.

**Aircraft**

Make \_\_\_\_\_  
 Model \_\_\_\_\_  
 Registration \_\_\_\_\_

Unit Installed **RAP 441CC-7**  
 Part No. \_\_\_\_\_

Serial No. **C 5036**  
 Date of Manufacture **OCT 21 2019**

Tach Time On \_\_\_\_\_ Hrs.  
 Tach Time Off \_\_\_\_\_ Hrs.

Date Installed \_\_\_\_\_  
 Date Removed \_\_\_\_\_

Purchased From \_\_\_\_\_

**PUMPS SENT IN FOR WARRANTY WILL NOT BE RETURNED**