

THE  
**adlog**

MAINTENANCE  
RECORDKEEPING  
SYSTEM

**AVIONICS  
MAINTENANCE  
RECORDS**



# AVIONICS MAINTENANCE RECORDS

(including transponder biennial checks)

Log No. \_\_\_\_\_

Aircraft Registration No. N212AV  
Aircraft Manufacturer Piper Aircraft Corp.  
Model PA-28-236  
Serial No. 28-751128

## EQUIPMENT LISTING

List all installed avionics, autopilot and flight director equipment.

	Mfg.	Model	Serial No.
1.	<u>Garco</u>	<u>Com 120</u>	<u>10575</u> (Garco)
2.	<u>Garco</u>	<u>Com 120</u>	<u>17372</u> (Garco)
3.			
4.			
5.			
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16.			
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18.			
19.			
20.			

THE FOLLOWING AVIONICS  
REPORTING EQUIPMENT  
REQUIRED BY FAR 25.1309  
APPENDIX E HAVE BEEN  
PARA (b) STATIC SYSTEMS  
PARA (d) ALTIMETER  
ALTIMETER  
PARA (c) INTEGRATED SYSTEM TO

ATC TRANSPONDER SYSTEM OPERATION CHECKED  
AND MEETS REQUIREMENT OF FAR 25.1309  
RECORDED IN APPENDIX E OF PART 43

STAR AVIONICS, INC.  
LEVEL FIELD  
DARTMOUTH, NH 03825  
144 CENTRAL REPAIR STATION & AIR CENTER

ATC TRANSPONDER SYSTEM OPERATION  
CHECKED AND MEETS REQUIREMENTS OF  
FAR 91.172 AS PRESCRIBED IN APPENDIX F  
OF PART 43. Date: 8-19-87

SIGNAL AVIATION SERVICES, INC. *Transponder P/N*  
SIGNAL HANGAR LOVELL FIELD *AT 150 T50*  
CHATTANOOGA, TN 37421 *SN 16395*  
FAA REPAIR STATION 5470 *James L Hendrick*

The following altimeter system and altitude reporting equipment tests  
and inspections, as required by FAR 91.171, in accordance with  
FAR 43, Appendix "E" have been performed:

Para (a) Static System *Certified to 20,000'* (date) *8-19-87*

Para (b) Altimeter(s) #1 *S/N P5280* #2 *S/N*

Tested to #1 *20,000* Feet #2 \_\_\_\_\_ (date) *8-19-87*

Para (c) Integrated System Test *20,000'* (date) \_\_\_\_\_

Signature *James L Hendrick*

FAA-Repair Station 5470

Sig. Aviation Service

Lovell Fld., Chatt., TN

*REPLACED ALTIMETER WITH OVERHAULED UNIT. P/N 59341  
S/N J424.*

THE FOLLOWING ALTIMETER AND ALTITUDE  
REPORTING EQUIPMENT INSPECTIONS AS  
REQUIRED BY FAR 91.171, IN ACCORDANCE WITH FAR 43,  
APPENDIX E HAVE BEEN PERFORMED.

PARA (a) STATIC SYSTEM TO *2,000'* *8-22-89*

PARA (b) ALTIMETER #1 TO *20,000'* *8-21-89* *S/N J424*

ALTIMETER #2 *N/A*

PARA (c) INTEGRATED SYSTEM TO *20,000'* *8-22-89*

ATC TRANSPONDER SYSTEM OPERATION CHECKED  
AND MEETS REQUIREMENT OF FAR 91.172 AS  
PRESCRIBED IN APPENDIX F OF PART 43. *AT 150, S/N 16395*

*J.M. Miles for*  
STAR AVIONICS, INC.  
LOVELL FIELD  
CHATTANOOGA, TN 37421  
FAA CERTIFIED REPAIR STATION # TA 413370

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

TE  
AIRFRAME  
TIME  
IN  
SERVICE  
AVIONICS  
TIME  
IN  
SERVICE

10-89

ELT BATTERY REPLACED. REPLACE BATTERY 131  
JUNE 91. L.M. McInnes for

STAR AVIONICS, INC.  
LOVELL FIELD  
CHATTANOOGA, TN 37421  
FAA CERTIFIED REPAIR STATION # TA 48537M

22-91

RELOCATED #2 COMM ANTENNA FROM F.S. 170.0 TO  
F.S. 81.0. INSTALLED ITMORROW A-16 LORAN-C ANTENNA  
AT F.S. 170.0. INSTALLED ITMORROW 418 LORAN-C  
RECEIVER S/N 82215, ITMORROW ALTITUDE ADAPTER #12332,  
AND TROLL TECHNOLOGY FN-200 COOLING FAN. JET 337  
FORM DATED SAME. WEIGHT & BALANCE COMPUTED

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

- PARA (a) STATIC SYSTEM TO N/A
- PARA (b) ALTIMETER #1 TO N/A
- ALTIMETER #2 TO N/A
- PARA (c) INTEGRATED SYSTEM TO 20,000 FT.

*J. K. Miller for*  
STAR AVIONICS, INC.  
LOVELL FIELD  
CHATTANOOGA, TN 37421  
FAA CERTIFIED REPAIR STATION # TA 48537M

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

- PARA (a) STATIC SYSTEM TO 2,000' 11-26-91
- PARA (b) ALTIMETER #1 TO 20,000' S/N 5424 11-26-91
- ALTIMETER #2 TO N/A
- PARA (c) INTEGRATED SYSTEM TO 20,000' 11-26-91

AT150 S/N 16395 11-2  
ATC TRANSPONDER SYSTEM OPERATION  
AND MEETS REQUIREMENT OF FAR  
PRESCRIBED IN APPENDIX F OF PART 43.

*L.M. McInnes for*  
STAR AVIONICS, INC.  
LOVELL FIELD  
CHATTANOOGA, TN 37421  
FAA CERTIFIED REPAIR STATION # TA

DATE

AIRFRAME  
TIME  
IN  
SERVICEAVIONICS  
TIME  
IN  
SERVICE

SIGNATURE &amp; CERTIFICATE NO. OF PERSON PERFORMING WORK

N2108V

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

PARA (a) STATIC SYSTEM TO 2,000' 12-27-01  
PARA (b) ALTIMETER #1 TO 20,000' s/n J424 12-26-01  
ALTIMETER #2 TO N/A  
PARA (c) INTEGRATED SYSTEM TO 20,000' 12-27-01  
AT150 s/n 16395 12-27-01

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

STAR AVIONICS, INC.

LOVELL FIELD

CHATTANOOGA, TN 37421

FAA CERTIFIED REPAIR STATION # TA 4R537M

Dale Raser

For	Reads	Tol	STAR AVIONICS INC Repair Station TA4R5- Lovell Field Chatta., TN Phone (423)499-1100		
-1000	+5	20	CASE LEAK <u>5</u> ft/min Tol. 100 ft		
0	-0-	20			
500	+5	20	HYSTERESIS <u>+10</u> at 50% <u>+5</u> at 40% Tol. 75 ft.		
1000	✓	20			
1500	+5	25	AFTER EFFECT <u>0</u> ft. Tol. 30 ft.		
2000	-5	30			
3000	-5	30	FRICTION ERROR		
4000	-5	35			
6000	-5	40	Tol	BARO SCALE	
8000	+5	60	ft.		
10000	+10	80	1k	<u>30</u>	70
12000	+10	90	2k	<u>40</u>	70
14000	+25	100	3k	<u>40</u>	70
16000	+30	110	5k	<u>40</u>	70
18000	+30	120	10k	<u>40</u>	80
20000	+40	130	15k	<u>50</u>	90
22000		140	20k	<u>60</u>	100
25000		155	25k		120
30000		180	30k		140
35000		205	35k		160
40000		230	40k		180
45000		255	50k		250
50000		280			

Tested Per F.A.R. Part 43, Appendix E.

P/N 5934P-1 S/N J424W.O. 21176 Aircraft N2108VDate 26 Dec 01 Tech f.p.

DATE	AIRFRAME TIME IN SERVICE	AVIONICS TIME IN SERVICE

**SERVICEABLE (COMPONENTS)**

For	Reads	Tol
-1000	-10	20
0	✓	20
500	+10	20
1000	+5	20
1500	+20	25
2000	+10	30
3000	+10	30
4000	+15	35
6000	+30	40
8000	+45	60
10000	+60	80
12000	+80	90
14000	+90	100
16000	+105	110
18000	+120	120
20000	+130	130
22000		140
25000		155
30000		180
35000		205
40000		230
45000		255
50000		280

**STAR AVIONICS INC.**  
 Repair Station TA4R537M  
 Lovell Field Chatta., TN  
 Phone (615)499-1100

**CASE LEAK**  
15 ft/min  
 Tol. 100 ft

**HYSTERESIS**  
+25 at 50%  
+10 at 40%  
 Tol. 75 ft.

**FRICITION ERROR** Tol ft.

**AFTER EFFECT**  
0 ft.  
 Tol. 30 ft.

1k	<u>40</u>	70
2k	<u>45</u>	70
3k	<u>40</u>	70
5k	<u>40</u>	70
10k	<u>60</u>	80
15k	<u>75</u>	90
20k	<u>100</u>	100
25k		120
30k		140
35k		160
40k		180
50k		250

**BARO SCALE**  
 28.10-1725-1727  
 28.50-1340-1340  
 29.00-860-863  
 29.50-390-397  
 29.92 0 0  
 30.50+530+531  
 30.90+990+891  
 30.99+975+974  
 Tol. 75 Ft.

Tested Per F.A.R. Part 43, Appendix E.  
 P/N 5934P-1 S/N J424  
 W.O. 7455 Aircraft N2108V  
 Date 12-2-93 Tech James Hendricks

Cincinnati Avionics Clermont County Airport Batavia, OH 45103 VYTR380B  
 LOG ID# 582 01-December-2004 WO# 3850/1  
 N2108V S/N 28-7911128 PIPER PA-28-236

Removed existing Apollo 618 Loran System, Bendixing KN 64 DME, & Narco Com 810 & Nav 121. Installed Garmin GNS 430 GPS/Com/Nav System. See FAA form 337 on file dated 15 November 2004. Installed Mid-Continent MD 4300-411 Electric Altitude Indicator and JPinstruments EDM 700 Engine Analyzer System. See FAA form 337 on file dated 29 November 2004. Operational check of the system was performed with no discrepancies noted.

Useful Load: 1192.40  
 Empty weight: 1807.60  
 Arm: 83.79  
 Moment: 151466.55

  
 For Cincinnati Avionics

VYTR380B

DATE

AIRFRAME  
TIME  
IN  
SERVISE

AVIONICS  
TIME  
IN  
SERVISE

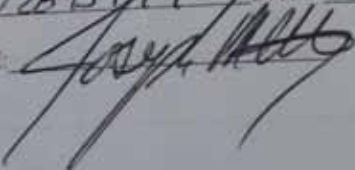
**SPECTRUM AVIATION  
4029 AIRPORT RD STE. 300  
LEXINGTON, KY 40510**

MAKE: PIPER MODEL: PA-28-236

S/N# 28-7911128 N# 2108V

INSTALLED S-TEC SYSTEM 55X AUTOPILOT IN ACCORDANCE WITH S-TEC STC# SA8906SW-D FOR THE PIPER PA-28-236. SEE FAA FORM 337 DATED 03-09-06 FOR DETAILS OF INSTALLATION. SEE WEIGHT AND BALANCE SECTION OF PILOT'S OPERATING HANDBOOK FOR REVISIONS.

CERT# A/P 2845999 DATE: 03/09/06

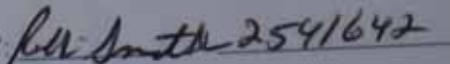
SIGNATURE: 

I HEREBY CERTIFY THAT THE ALTIMETER, ENCODER,  
AND STATIC SYSTEM TESTS REQUIRED BY FAR 91.411  
HAVE BEEN PERFORMED AND MEET SPECIFICATIONS.  
PILOT ALTIMETER TESTED TO 20000 FEET  
MODE C ENCODER TESTED TO 20000 FEET

SYSTEM TEST DATE 04/04/2006

I HEREBY CERTIFY THAT THE ATC TRANSPONDER TEST  
REQUIRED BY FAR 91.413 WAS PERFORMED THIS DATE AND  
FOUND TO COMPLY WITH FAR 43, APPENDIX F.

MAKE: NARCO, MODEL: AT-150, SERIAL NO.: 16395

TESTED BY:  2541642

**AVIONICS AUTHORITY, INC.**  
FAA CRS # UTYR015L  
LEXINGTON, KY 40510

Cincinnati Avionics Clermont County Airport Batavia, OH 45103 VYTR380B  
LOG ID# 1036 09-March-2007 WO# 5031/1  
N2108V S/N 28-7911128 PIPER PA-28-236

Pg 1/1

Model: GNS 430 Part#: 011-00280-10 Serial#: 97123989 & 96313566  
ACTION: Performed WAAS upgrade to existing dual GNS 430 System. See FAA form 337 dated 09 March 2007 on file. Operational check of the system was performed with no discrepancies noted.

Useful Load: 1183.51  
Empty weight: 1816.49  
Arm: 83.91  
Moment: 152414.98

VYTR380B

For Cincinnati Avionics

Cincinnati Avionics Clermont County Airport Batavia, OH 45103 VYTR380B  
LOG ID# 1192 11-December-2007 WO# 5355/1  
N2108V S/N 28-7911128 PIPER PA-28-236

Pg 1/1

Model: GNS 430w Part#: 011-01060-40 Serial#: 96313566  
ACTION: Complied with Garmin Software Service Bulletin 0740 Rev. A. updated units Main Software to version 3.00 and GPS Software to version 3.0. Revised AFMS has been installed in accordance with this Service Bulletin. Operational check of the system was performed with no discrepancies noted.

Model: GNS 430w Part#: 011-01060-40 Serial#: 97123989  
ACTION: Complied with Garmin Software Service Bulletin 0740 Rev. A. Updated units Main Software to version 3.00 and GPS Software to version 3.0. Revised AFMS has been installed in accordance with this Service Bulletin. Operational check of the system was performed with no discrepancies noted.

VYTR380B

For Cincinnati Avionics

Cincinnati Avionics Clermont County Airport Batavia, OH 45103 VYTR380B  
LOG ID# 1249 26-February-2008 WO# 5458/1  
N2108V S/N 28-7911128 PIPER PA-28-236

Pg 1/1

Performed inspections required by FAR's 91.411 and 91.413 in accordance with FAR 43 Appendixes E and F. Adjusted altimeter, encoder, and transponder as needed. Operational check of the system was performed with no discrepancies noted.

Altimeter	Make: United	Model: 5934P-1	S/N: 3424	to 20,000 ft.
Encoder	Make: Narco	Model: AR 500	S/N: 10861	to 20,000 ft.
Transponder	Make: Narco	Model: AT 150	S/N: 16395.	

VYTR380B

For Cincinnati Avionics

Cincinnati Avionics Clermont County Airport Batavia, OH 45103 VYTR380B  
LOG ID# 1277 10-April-2008 WO# 5487/1  
N2108V S/N 28-7911128 PIPER PA-28-236

Pg

Removed existing ELT, ELT antenna & coax. Installed new Artex ME 406 ELT System. Battery dated Jul 2013. Operational check of the system was performed with no discrepancies noted.

Useful Load: 1183.19  
Empty weight: 1816.81  
Arm: 83.85  
Moment: 152333.54

VYTR380B

For Cincinnati Avionics



Cincinnati Avionics Clermont County Airport Batavia, OH 45103 VYTR380B  
LOG ID# 1501 26-March-2009 WO# 5966/1  
N2108V S/N 28-7911128 PIPER PA-28-236

Pg 1 / 1

Model: GNS 430w Part#: 011-01060-45 Serial#: 96313566  
ACTION: Complied with Garmin Software Service Bulletin 0848 Rev. A, upgraded Main software to version 3.20 and GPS software to version 3.2.  
Model: GNS 430w Part#: 011-01060-40 Serial#: 97123989  
ACTION: Complied with Garmin Software Service Bulletin 0848 Rev. A, upgraded Main software to version 3.20 and GPS software to version 3.2. Operational check of the system was performed with no discrepancies noted.

VYTR380B

For Cincinnati Avionics

Cincinnati Avionics Clermont County Airport Batavia, OH 45103 VYTR380B  
LOG ID# 1722 26-February-2010 WO# 6403/1  
N2108V S/N 28-7911128 PIPER PA-28-236

Pg 1 / 1

Performed inspections required by FAR's 91.411 and 91.413 in accordance with FAR 43 Appendixes E and F. No discrepancies noted.

Altimeter	Make: United	Model: 5934P-1	S/N: 3424	to 20,000 ft.
Encoder	Make: Narco	Model: AR-500	S/N: 10861	to 20,000 ft.
Transponder	Make: Narco	Model: AT-150	S/N: 16395.	

VYTR380B

For Cincinnati Avionics

Cincinnati Avionics Clermont County Airport Batavia, OH 45103 VYTR380B  
LOG ID# 1723 26-February-2010 WO# 6404/1  
N2108V S/N 28-7911128 PIPER PA-28-236

Pg 1 / 1

Model: GNS 430w Part#: 011-01060-40 Serial#: 97123989  
ACTION: Complied with Garmin Software Service Bulletin 0848 Rev. A, upgraded GPS software to version 3.2. Complied with Garmin Software Service Bulletin 0918 Rev A, upgraded Main software to version 3.30, replaced AFMS as required.  
Model: GNS 430w Part#: 011-01060-45 Serial#: 96313566  
ACTION: Complied with Garmin Software Service Bulletin 0848 Rev. A, upgraded GPS software to version 3.2. Complied with Garmin Software Service Bulletin 0918 Rev A, upgraded Main software to version 3.30, replaced AFMS as required.

VYTR380B

For Cincinnati Avionics

Cincinnati Avionics Clermont County Airport Batavia, OH 45103 VYTR380B  
LOG ID# 2045 22-February-2012 WO# 7146/1  
N2108V S/N 28-7911128 PIPER PA-28-236

Pg 1 / 1

Performed inspections required by FAR's 91.411 and 91.413 in accordance with FAR 43 Appendixes E and F. No discrepancies noted.

Altimeter	Make: United	Model: 5934P-1	S/N: 3424	to 20,000 ft.
Encoder	Make: Narco	Model: AR-500	S/N: 10861	to 20,000 ft.
Transponder	Make: Narco	Model: AT-150	S/N: 16395.	

VYTR380B

For Cincinnati Avionics

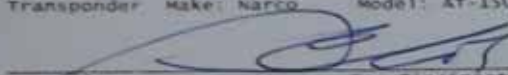
**EMERGENCY BATTERY REPLACEMENT**  
 Affix this label in aircraft logbook  
 Recommended battery replacement 3 years from date  
 of manufacture. Order replacement battery from  
 Mid-Continent Instruments and Avionics at (800) 821-1212.  
 Date of Manufacture: 4/12

Cincinnati Avionics Clermont County Airport Batavia, OH 45103 VYTR380B  
 LOG ID# 2343 02-January-2014 WO# 7865  
 N2108V S/N 28-7911128 PIPER PA-28-236

Pg 1 / 1

Performed inspections required by FAR's 91.411 and 91.413 in accordance with FAR 43 appendixes E and F. No discrepancies noted.

Altimeter Make: United Model: 5934P-1 S/N: 3424 to 20,000 ft.  
 Encoder Make: Narco Model: AR-500 S/N: 10861 to 20,000 ft.  
 Transponder Make: Narco Model: AT-150 S/N: 16393.

  
 VYTR380B For Cincinnati Avionics

**Altimeter Scale Correction Card**  
 N2108V 2-Jan-2014

Altitude Reading	Primary Error	Standby Error	Altitude Reading	Primary Error	Standby Error
-1000	-5	X	10000	-20	X
0	-10	X	12000	-10	X
500	-10	X	14000	-5	X
1000	-10	X	16000	-10	X
1500	0	X	18000	5	X
2000	-10	X	20000	0	X
3000	-10	X	22000	X	X
4000	-15	X	25000	X	X
6000	-20	X	30000	X	X
8000	-15	X	35000	X	X


Cincinnati Avionics Form CA-382 (2/14) FAA OES VYTR380B - Clermont County Airport Batavia, OH 45103 (513) 725-8888

Cincinnati Avionics 2001 Sportys Drive Clermont County Airport Batavia, OH 45103 VYTR380B  
 LOG ID# 2683 03-February-2016 WO# 8618  
 N2108V S/N 28-7911128 PIPER PA-28-236

Pg 1 / 1

Removed a Narco AR500 encoder and replaced it with a TCI SSD120-30N. Performed inspections required by FAR's 91.411 and 91.413 in accordance with FAR 43 Appendixes E and F. No discrepancies noted.

Altimeter Make: United Model: 5934P-1 S/N: 3424 to 20,000 ft.  
 Encoder Make: TCI Model: SSD-120-30N S/N: SRN20578 to 20,000 ft.  
 Transponder Make: Narco Model: AT150 S/N: 16395.

  
 VYTR380B For Cincinnati Avionics

**Altimeter Scale Correction Card**  
 N2108V 3-Feb-2016

Altitude Reading	Primary Error	Standby Error	Altitude Reading	Primary Error	Standby Error
-1000	5	X	10000	20	X
0	5	X	12000	35	X
500	20	X	14000	20	X
1000	0	X	16000	35	X
1500	0	X	18000	35	X
2000	5	X	20000	40	X
3000	0	X	22000	X	X
4000	0	X	25000	X	X
6000	0	X	30000	X	X
8000	5	X	35000	X	X

Cincinnati Avionics Form CA-382 (2/16) FAA OES VYTR380B - Clermont County Airport Batavia, OH 45103 (513) 725-8888