

Book # 2



# AIRFRAME MAINTENANCE RECORD

ARTEX INC.  
 ARTEX AIRCRAFT SUPPLIES, INC.  
 10714 S. Township Rd. - Canby, OR 97013  
 (503) 236-3959 800-547-8801  
 TSO-C91a TRANSPORT CANADA APPROVED

REPLACE BATTERY - Mar 99

AIRCRAFT SERIAL AND REGISTRATION CESSNA 177RG # 1274, N52802

RECORD NUMBER 2

CLOSED  
 TACT 4155.7 HRS  
 TTATZ 4155.7 HRS

ENGINE: LYCOMING IO-360-A1B6D #L-17392-51A

PROPELLER: MCCAULEY B2D34C207, BLADE 78TCA-0<sup>#</sup> 774925

#### INSTRUCTIONS

This record should be completed and maintained in accordance with FAA Federal Aviation Regulations 43.9, 43.11 and 91.173 and/or other prevailing government regulations.

Note: Record Service Bulletins and Airworthiness Directives in the back of this record as well as the appropriate Engine/Propeller/Avionics Maintenance Record.

### MAINTENANCE RECORD

DATE 19 <u>91</u>	TOTAL TIME IN SERVICE		DESCRIPTION OF THE WORK PERFORMED	AUTHORIZED SIGNATURE, CERTIFICATE TYPE & NUMBER
	HOURS	10ths		
<u>AUG 6</u>	2259		RECORDING TACH TIME 2259 HR, PROPELLER TIME 2259 HR, SINCE OVERHAUL 853 HR AD 76-07-12 IGNITION SWITCH OPERATIONAL CHECK SATISFACTORY. INSTALLED P/N S-1236C3-0420 FLEXIBLE LINE, DISTRIBUTOR TO FUEL FLOW GAGE, ROTATED BOTH MAIN TIRES. WHEEL BEARINGS CLEANED AND REPACKED WITH SHELL <sup>II</sup> 5.	
<u>AUG 6</u>	2259		"I CERTIFY THAT THIS AIRCRAFT HAS BEEN INSPECTED IN ACCORDANCE WITH A 100 HOUR INSPECTION AND WAS DETERMINED TO BE IN AIRWORTHY CONDITION" Thomas E. Roberts, AEP 767143	

### MAINTENANCE RECORD

DATE	TOTAL TIME IN SERVICE		DESCRIPTION OF THE WORK PERFORMED	AUTHORIZED SIGNATURE CERTIFICATE TYPE & NUMBER
	HOURS	10ths		
19 <sup>91</sup>				
Nov 30	2284	.0	RECORDING TACH TIME 2284 HOURS, TOTAL PROPELLER TIME 2284 HOURS SINCE OVERHAUL 878 HOURS. AD 87-20-03 R2 SEAT TRACK INSPECTED IN ACCORDANCE PAR II (C)(a) AND FOUND SATISFACTORY. AD 76-07-12 IGNITION SWITCH OPERATIONAL CHECK SATISFACTORY "I CERTIFY THAT THIS AIRCRAFT HAS BEEN INSPECTED IN ACCORDANCE WITH AN ANNUAL INSPECTION AND WAS DETERMINED TO BE IN AIRWORTHY CONDITION."	
			Thomas E Doherty	1A767142

### MAINTENANCE RECORD

DATE	TOTAL TIME IN SERVICE		DESCRIPTION OF THE WORK PERFORMED	AUTHORIZED SIGNATURE, CERTIFICATE TYPE & NUMBER
	HOURS	10ths		
19 <u>92</u>				
21 Jan			<div style="border: 1px solid black; padding: 5px; display: inline-block;"> <p>21 Jan 92                      Installed Lonan coupling to Cessna Auto pilot oper check accomplished switch &amp; annunciator lite labled.                      CRSGJ2R1112  <i>Myke Satna</i></p> </div>	
20 Jun	2301	5	ENGINE REMOVED FOR MAJOR OVERHAUL AND REINSTALLED. PROPELLER REINSTALLED	<i>Thomas E Doherty</i> A EP767142
JUL 5	2321	6	INSTALLED SERVICE KIT SK177-40C REV OCT 5, 1990 REDUCED DIA FUEL CAP MOD, P/N 2009015-5 INSTALLED IN LEFT TANK, P/N 2009015-6 INSTALLED IN RIGHT TANK	<i>Thomas E Doherty</i> A EP767142

## MAINTENANCE RECORD

DATE	TOTAL TIME IN SERVICE		DESCRIPTION OF THE WORK PERFORMED	AUTHORIZED SIGNATURE CERTIFICATE TYPE & NUMBER
	HOURS	10ths		
19__			<p style="color: red;">I certify that the altimeter, static system, transponder and altitude reporter test required by FARs 91.411, 91.413 &amp; 91.217 have been performed and found to be within the limits of FAR 43 appendices E &amp; F and AC 43.6a.</p> <p style="color: red;">TESTED TO <u>18</u> Kft.</p> <p style="color: red;">Altimeter Model <u>United</u> #1 S/N <u>8860</u> #2 S/N <u>  </u></p> <p style="color: red;">Transponder Model <u>RT-359A</u> #1 S/N <u>14432</u> #2 S/N <u>  </u></p> <p style="color: red;">Altitude Reporter <u>Terra</u> #1 S/N <u>64019</u> #2 S/N <u>  </u></p> <p style="color: red;">Signed <u>[Signature]</u> Date <u>11-20-92</u></p> <p style="color: red;">STC Aviation Inc., St. Cloud, MN 56304 CRS BDKR393C</p>	

### MAINTENANCE RECORD

DATE	TOTAL TIME IN SERVICE		DESCRIPTION OF THE WORK PERFORMED	AUTHORIZED SIGNATURE, CERTIFICATE TYPE & NUMBER
	HOURS	10ths		
19 <u>93</u>				
JAN 2	2377	.0	RECORDING TACH TIME 2377 HOURS, TOTAL PROPELLER TIME 2377 HOURS, AD 76-07-12 IGNITION SWITCH OPERATIONAL CHECK SATISFACTORY, AD 87-20-03 RT SEAT TRACKS INSPECTED IN ACCORDANCE WITH PART (C)(CE) AND FOUND SATISFACTORY, INSTALLED NEW 66-109 CLEVELAND BRAKE LININGS BOTH WHEELS, INSTALLED NEW AN6230-2 "O" RING IN RIGHT WHEEL BRAKE CYLINDER, INSTALLED NEW AN 252-44 HINGES BOTH COWL FLAPS, REBUSHED NOSE WHEEL POOR HINGES, NEW ELT BATTERY PACK P/N BP-1020 INSTALLED IN DM ELT C - DUE REPLACEMENT JAN 1993, ACFT LUBED REPLACED J-7444-14 COWL MOUNT LOWER LEFT (CONTINUED	
				NEXT PAGE)

CONTINUED

### MAINTENANCE RECORD

DATE	TOTAL TIME IN SERVICE		DESCRIPTION OF THE WORK PERFORMED	AUTHORIZED SIGNATURE, CERTIFICATE TYPE & NUMBER
	HOURS	10ths		
19 <u>93</u>				
JAN 2	2377.0		I CERTIFY THAT THIS AIRCRAFT HAS BEEN INSPECTED IN ACCORDANCE WITH AN ANNUAL INSPECTION AND WAS DETERMINED TO BE IN AIRWORTHY CONDITION "Thomas E Doherty IA 767142"	
8/18/93	TACH: 2415.6		Removed the existing KN-61 DME SYSTEM and KI266 Indicator. Installed a KING KN-64 DME. Relocated ANTENNA TO Behind the pilot seat area. Installation completed using manufacturers instructions and following AC43.13, 1A Chapter 11, sections 2, 3, 5+7 and 2A Chapters 2+3. Weight and Balance and Equipment List updated to reflect this installation.	
<b>MAINTENANCE RELEASE</b> The component identified was repaired and inspected in accordance with current regulations of the Federal Aviation Administration and is approved for return to service. Pertinent details of the repairs are on file at this repair station under Work Order <u>8607</u> . Date <u>8/18/93</u> Signed <u>Michael J. [Signature]</u> for C32R103L Crystal Shamrock, Inc. 6000 Douglas Drive No., Mpls. MN 55429				



## MAINTENANCE RECORD

DATE	TOTAL TIME IN SERVICE		DESCRIPTION OF THE WORK PERFORMED	AUTHORIZED SIGNATURE, CERTIFICATE TYPE & NUMBER
	HOURS	10ths		
19 <u>94</u>			<del>(CONTINUED)</del>	
JAN 22	2449	5	<p>RECORDING TACH TIME 2449.5 HOURS, TOTAL PROPELLER TIME 2449.5 HR., AD 87-20-03 R2 SEAT RAILS INSPECTED IN ACCORDANCE WITH PAR II (C) (a) &amp; FOUND SATISFACTORY.</p> <p>AD 76-07-12 IGNITION SWITCH OPERATIONAL CHECK SATISFACTORY.</p> <p>ROTATED RIGHT TIRE FOR LONGER WEAR. LANDING GEAR RETRACTION CHECK ACCOMPLISHED @ 2425 HR NEW HYD PUMP.</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>Thomas E Doherty IA 767142</p>	



**MAINTENANCE RECORD**

DATE 19 <u>95</u>	TOTAL TIME IN SERVICE		DESCRIPTION OF THE WORK PERFORMED	AUTHORIZED SIGNATURE, CERTIFICATE TYPE & NUMBER
	HOURS	10ths		
MAR 3	2528	.0	RECORDING TACH TIME 2528 HOURS, TOTAL PROPELLER TIME 2528, AD 76-67-D2 IGNITION SWITCH OPERATIONAL CHECK SATISFACTORY, AD 87-20 03 R2 SEAT RAILS INSPECTED IN ACCORDANCE WITH PAR II (c), (a) AND FOUND SATISFACTORY. REPLACED J 7444-4 SHOCK MOUNT FOR ENGINE COWLING AT LEFT CENTER FIREWALL, ELT BATTERY DUE MAY 1997, "I CERTIFY THAT THIS AIRCRAFT HAS BEEN INSPECTED IN ACCORDANCE WITH AN ANNUAL INSPECTION AND WAS DETERMINED TO BE IN AIRWORTHY CONDITION." Thomas E Doherty	1A 767142

10 DE IN AIRWORTHY CONDITION

### MAINTENANCE RECORD

DATE	TOTAL TIME IN SERVICE		DESCRIPTION OF THE WORK PERFORMED	AUTHORIZED SIGNATURE, CERTIFICATE TYPE & NUMBER
	HOURS	10ths		
19 <u>95</u>			<p>certify that the altimeter, static system, transponder, and altitude reporter test required by FARs 91.411, 91.413 &amp; 91.217 have been performed and found to be within the limits of FAR 43 appendices E &amp; F and AC 43.6a. TESTED TO 18,000 Feet April 7 1995</p> <p>Transponder: Mfg. <u>ARC</u> Model <u>RT357A</u> S/N <u>14432</u></p> <p>Encoder: Model <u>Terra</u> P/N <u>AT3000</u> S/N <u>E9020</u></p> <p>Altimeter #1: Mfg. <u>Unit</u> P/N <u>57141</u> S/N <u>N8860</u></p> <p>Altimeter #2: Mfg. <u>-</u> P/N <u>-</u> S/N <u>-</u></p> <p>Signature <u>Ronald Pank</u> for QB2R103L</p>	
JUL 31	2558.0		<p>THROTTLE SWITCH FOR LANDING GEAR WARNING HORN</p> <p>ADJUSTED TO COME ON @ 12 Hg MAP. Thomas E Doherty #SEP 767142</p>	

### MAINTENANCE RECORD

DATE	TOTAL TIME IN SERVICE		DESCRIPTION OF THE WORK PERFORMED	AUTHORIZED SIGNATURE, CERTIFICATE TYPE & NUMBER
	HOURS	10ths		
19 <u>96</u> APR 03	2589	.0	RECORDING TACH TIME 2589 HOURS. TOTAL PROPELLER TIME 2589 HOURS. AD 76-07-02 IGNITION SW OPERATIONAL CHECK SATISFACTORY. AD 87-20-03 R2 SEAT AND RAILS INSPECTED 1AW Part # (c) (a) & FOUND SATISFACTORY. REPLACED GE 4591 LANDING LIGHT BULB, INSTALLED 12 EACH MCS 1450-3510-032 WASHERS ON WING FLAP ROLLERS 1AW Cirrus SEB 95-3A " I CERTIFY THAT THIS AIRCRAFT HAS BEEN INSPECTED IN ACCORDANCE WITH AN ANNUAL INSPECTION AND WAS DETERMINED TO BE IN AIRWORTHY CONDITION. Thomas	E Doherty 1A767142



### MAINTENANCE RECORD

DATE	TOTAL TIME IN SERVICE		DESCRIPTION OF THE WORK PERFORMED	AUTHORIZED SIGNATURE, CERTIFICATE TYPE & NUMBER
	HOURS	10ths		
1997				
JAN 25	2668	6	Installed New Prop Spinner/ALL NEW HARDWARE Balanced Propeller After Dressing Leading Edges & Paint. Prop Balanced to .15 IPS, Removed & Installed New Rotating Beacon Bulb w/P/N 40-0020	P.W. Mill A's PO04546908
JAN 28	2677	8	Replaced Both main tires with goodyear 15x6.00x6, replaced seal p/n 154-01300 and repacked wheel bearings, removed & replaced fuel's pressure switch, completed engine & checked for leaks.	R. Vorhutter AIP 393768273IA

### MAINTENANCE RECORD

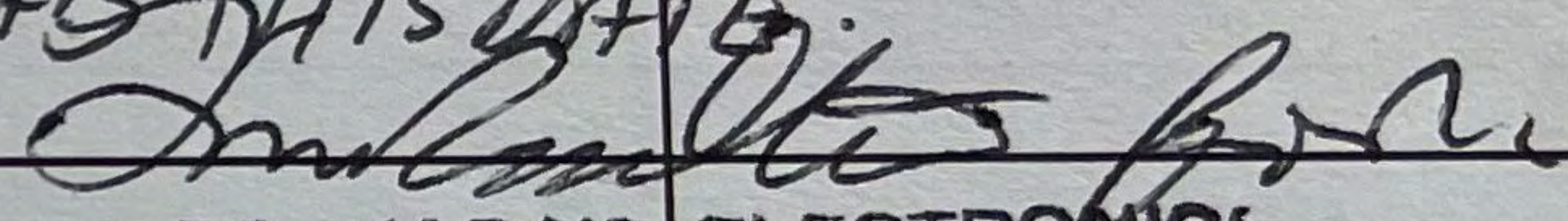
DATE	TOTAL TIME IN SERVICE		DESCRIPTION OF THE WORK PERFORMED	AUTHORIZED SIGNATURE, CERTIFICATE TYPE & NUMBER
	HOURS	10ths		
			<p>LOGBOOK ENTRY <u>C-177RG N52802 Tach 2733.7</u></p> <p>THE STATIC PRESSURE SYSTEM, TRANSPONDER WITH ALTITUDE REPORTING WAS IDENTIFIED TESTED AND INSPECTED I/A/W FAR 43 APPENDIX E PAR. A &amp; C, APPENDIX F (FAR 91.413) AND IS APPROVED FOR RETURN TO SERVICE. PERTINENT DETAILS OF THIS TEST IS ON FILE AT THIS REPAIR STATION UNDER W. O. # <u>2685</u> DATE <u>5-8-97</u></p> <p>SIGNATURE <u>Mark B. Alicandro</u> INSP. <u>(MBA)</u></p> <p>FOR TROPIC RADIO INC. 1575 W. COMMERCIAL BLVD. FT. LAUDERDALE, FL. 33309                      FAA APPROVED REPAIR STATION # RZ4R510M TEL. NO. 954-776-4030</p> <p><u>RT 359A S/N 14432</u>  <u>A3000 S/N E9020</u></p> <p><u>EXPIRES MAY 31, 1999</u></p>	

### MAINTENANCE RECORD

DATE	TOTAL TIME IN SERVICE		DESCRIPTION OF THE WORK PERFORMED	AUTHORIZED SIGNATURE, CERTIFICATE TYPE & NUMBER
	HOURS	10ths		
19 <u>97</u> 5-9-97	TACH 2733.	9	Complied with AD 76-07-02, ignition switch operational check, AD 87-20-03 R2 seat track inspection, Installed new E.L.T. Battery PN 00-60-62 exp. MAR 99, replaced Rotating bein. light bulb PN T28V150W Clean, inspect and reinstalled fuel screen, serviced and charged battery,	R. Vongunten A&P 393768273

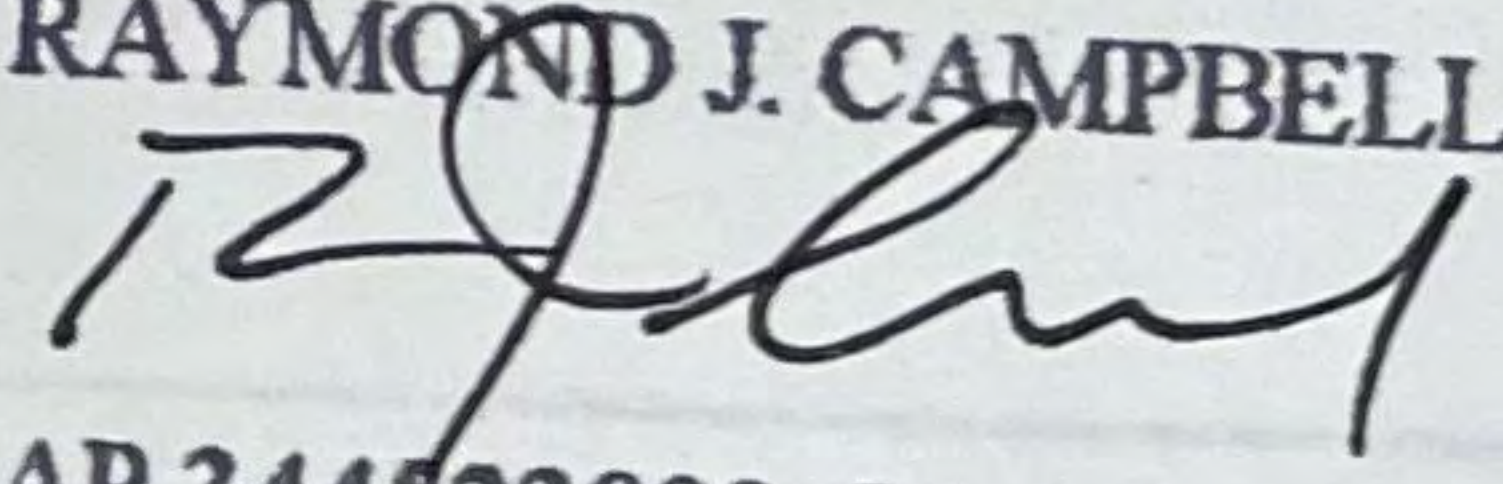
DATE: 5-9-97 TACH: 2733.9 T.T.: \_\_\_\_\_  
 I CERTIFY THAT THIS Aircraft HAS  
 BEEN INSPECTED IN ACCORDANCE WITH  
AN Annual INSPECTION AND  
 HAS BEEN DETERMINED TO BE IN  
 AIRWORTHY CONDITION. R. Vongunten For  
 RICK VONGUNTEN Professional A&P  
 A&P 393768273 IA

## MAINTENANCE RECORD

DATE	TOTAL TIME IN SERVICE		DESCRIPTION OF THE WORK PERFORMED	AUTHORIZED SIGNATURE, CERTIFICATE TYPE & NUMBER
	HOURS	10ths		
19 <u>97</u>				
7/18	2785	10	REMOVED CESSNA 300 ADF, ARDUO 604 LOGAN - INSTALLED KR 86 ADF, WX-900 STORMSCOPE, SPI EDM-700, AND KLN-35A GPS. SEE 337'S + WTS THIS DATE.	 <b>AERO MARINE ELECTRONICS</b> 224 E. AIRPORT AVENUE VENICE, FLORIDA 34285 FAA - CRS # UY4D587M

5707ME 088

### MAINTENANCE RECORD

DATE 19__	TOTAL TIME IN SERVICE		DESCRIPTION OF THE WORK PERFORMED	AUTHORIZED SIGNATURE, CERTIFICATE TYPE & NUMBER
	HOURS	10ths		
			<p align="center"><b>FLEET AIRCRAFT MAINTENANCE CORP.</b>  <b>1725 W COMMERCIAL BLVD. HANGAR #8</b>  <b>FT. LAUDERDALE, FL. 33309</b></p> <p>Reg: N52802  Date: 9/29/97</p> <p align="center">Make: Cessna  SN: 1274</p> <p align="right">ACTT: 2815.7  Hobbs: 1209.7</p> <p>Installed the following new parts lt. nose gear door, Forward gear door hinge brackets lt. and rt. and new pins and bushings, nose steering bellcrank and eyebolts, NG lower drag brace link, NG forward door attach brackets and pins and clevis, NG Lt. and Rt. Gear door attach clevis and bolts upper and lower, NG steering all bolts and bushings replaced from rudder trim actuator up to Nose Gear. Removed nose gear disassembled stripped and painted reassembled using all new bushings and bolts, seals through out, installed new upper scissors and squat switch, installed new down lock switch, nose gear reinstalled and rigged per maintenance manual using new bolts at upper attach, and all drag brace bolts replaced, installed new nose gear actuator hoses, installed new nose wheel , tube and tire, rebuilt lt. and rt. Brake master cylinders, installed new brake hoses lt. and rt., installed new brake cylinder assy. lt. side and rebuilt rt. brake wheel cylinder, bleed brakes.</p> <p align="right">RAYMOND J. CAMPBELL    AP 344523890 IA</p>	

**MAINTENANCE RECORD**

DATE 19__	TOTAL TIME IN SERVICE		DESCRIPTION OF THE WORK PERFORMED	AUTHORIZED SIGNATURE, CERTIFICATE TYPE & NUMBER
	HOURS	10ths		

**CONTRACT AIRCRAFT PAINTING**

Best Little Paint Shop In Texas

Log Book Entry

TYPE OF A/C *cardinal*

DATE *12-12-97*

N# *52802*

S/N# *177BG1274*

THE AIRCRAFT IDENTIFIED ABOVE WAS PAINTED AND INSPECTED IN ACCORDANCE WITH CURRENT REGULATIONS OF THE FEDERAL AVIATION AGENCY AND IS APPROVED FOR RETURN TO SERVICE.

PERTINENT DETAILS OF THE REPAIR ARE ON FILE AT THIS REPAIR STATION UNDER:

WORK ORDER NO: *9804*

BASE: *vestal white 570-545*

MAJOR: *Decan 45409UH*

ACCENT: *Orange 45410UH*

SIGNATURE OF CERTIFICATE HOLDER

REPAIR STATION #QZPRO27J

N52802

12-11-97

Total time 2848.7 177RG 1274

Removed flight controls, balanced per. manufacturers specifications, reinstalled controls.

David Bogan A&P 455216543

*David Bogan*

## MAINTENANCE RECORD

DATE	TOTAL TIME IN SERVICE		DESCRIPTION OF THE WORK PERFORMED	AUTHORIZED SIGNATURE, CERTIFICATE TYPE & NUMBER
	HOURS	10ths		
12/15/97			TACH 2849.1 Replaced induction air filter element (BA5705). Paul for CRS UNFR171L	WOT 970166
<p>1-7-98 @ 2861.6 HRS. TACH TIME. AIRCRAFT T.T. 2861.6 HRS.</p> <ol style="list-style-type: none"> <li>1. INSTALLED NEW TACHOMETER.</li> <li>2. INSTALLED PATCH ON RIGHT COWL FLAP CONTROL BRACKET. OPERATED SYSTEM - GOOD.</li> <li>3. BLED RIGHT AND LEFT BRAKES. TESTED BRAKES - GOOD.</li> <li>4. FILLED NOSE STRUT WITH NITROGEN. LEAK CHECKED - GOOD.</li> <li>5. TESTED TRANSPONDER TO VERIFY IDENT FUNCTIONED PROPERLY - GOOD.</li> </ol>				
<p><b>APPROVED FOR RETURN TO SERVICE</b></p> <p>W/O. NO. <u>507698</u> DATE <u>1-7-98</u></p> <p>SIGNED <u>William R. Avery</u></p> <p><b>AEROXEC SERVICES</b>                  Long Beach, CA 90806                  FAA Approved Repair Station # DW3R464L</p>				

N52802

Date: 02-11-98

Tach: 282.7

2882.7

W. R. Avery  
3-31-98

Installed new left and right main tires. Replaced OAT gauge and probe assembly. Replaced tie down ring springs. Installed new tach cable. Aligned main wheel axles. Replaced clamp on prop cable stay arm. This Airframe is approved for return to service on W/O 10891.

David M. Avery  
 David M. Avery  
 CRS LCPR025G  
 Boca Aviation

*David M. Avery*  
David M. Avery  
CRS LCPR025G  
Boca Aviation

REG.NO.	N52802
MAKE	CESSNA
MODEL	177RG
S/N	177RG1274

MIDWEST AVTECH, INC.  
I.V. REGIONAL AIRPORT  
P.O. BOX 451  
PERU, IL 61354

DATE	7/10/98
TACH	2899.1
T.T.	2899.1
SMOH	

MAINTENANCE RECORD

DATE	TOTAL TIME IN SERVICE	HOURS
19__		

C/W A.D. 76-07-12 BY INSPECTING MAG SWITCH, NEXT DUE AT 2999 HRS - C/W A.D.  
 87-20-03R2 BY INSPECTING SEATS AND RAILS, NEXT DUE AT NEXT ANNUAL - CLEANED  
 AND REPACKED WHEEL BEARINGS, REPLACED NOSE WHEEL BEARINGS - PERFORMED  
 GEAR RETRACTION - REPLACED 3 COWL MOUNTS - REPAIRED PITOT TUBE MOUNT -  
 CLEANED STALL SWITCH HEATER GROUND WIRES, SYSTEM OPS CHECKS GOOD - SERVICED  
 NOSE STRUT, BRAKES AND BATTERY -  
 I CERTIFY THAT THIS AIRCRAFT HAS BEEN INSPECTED IAW AN ANNUAL INSPECTION AND  
 WAS FOUND TO BE IN AN AIRWORTHY CONDITION

AUTHORIZED SIGNATURE, CERTIFICATE TYPE & NUMBER

CHARLES M. STUDER *Charles M. Studer* A&P 337545845 IA

MAINTENANCE RECORD

DATE	TOTAL TIME IN SERVICE	
	HOURS	10ths
19__		

REG. NO.	N52802
MAKE	CESSNA
MODEL	177RG
S/N	177RG1274

MIDWEST AVTECH INC.  
 I.V. REGIONAL AIRPORT  
 P.O. BOX 451  
 PERU, IL 61354

DATE	08/18/99
TACH	2926.2
T.T.	2926.2
SMOH	

AUTHORIZED SIGNATURE,  
 CERTIFICATE TYPE  
 & NUMBER

C/W A.D. 76-07-12 BY INSPECTING MAG SWITCH, NEXT DUE AT 3026 HRS. - C/W A.D. 87-20-03R2 BY INSPECTING SEATS AND RAILS, NEXT DUE AT NEXT ANNUAL - REPLACED ALL SEAT ROLLER WASHERS WITH PMA PARTS - REPLACED PILOTS SEAT TUBE ROLL PINS WITH NEW CESSNA PARTS - REPLACED PILOTS UPPER DOOR HINGE PIN - REPLACED SEAT BELT SHOULDER HARNESS BUSHINGS WITH NEW CESSNA PARTS - REPLACED BOTH COWL FLAP CONTROL CABLES WITH NEW CESSNA PARTS - R&R VACUUM FILTERS - R&R ENGINE AIR FILTER - SERVICED BRAKE SYSTEM - INSPECTED ELT SYSTEM IAW FAR 91.207, NEXT BATTERY CHANGE DUE 08/01  
 I CERTIFY THAT THIS AIRCRAFT HAS BEEN INSPECTED IAW FAR 43, APPENDIX D FOR AN ANNUAL INSPECTION AND WAS FOUND TO BE IN AN AIRWORTHY CONDITION

CHARLES M. STUDER *Charles M Studer* A&P 337545845 IA

REG. NO.	N52802
MAKE	CESSNA
MODEL	177RG
S/N	177RG 1274

MIDWEST AVTECH INC.  
 I.V. REGIONAL AIRPORT  
 P.O. BOX 451  
 PERU, IL 61354

DATE	04/05/00
TACH	2936.8
T.T.	
SMOH	

REPLACED ALTERNATOR BELT WITH NEW CESSNA PART  
 THE AIRCRAFT OR ENGINE IDENTIFIED ABOVE WAS REPAIRED AND INSPECTED IAW CURRENT FARs - ONLY THE WORK DESCRIBED ABOVE IS APPROVED FOR RETURN TO SERVICE

CHARLES M. STUDER *Charles M Studer* A&P 337545845 IA

...ove was repaired and  
...eral Aviation Agency  
...n to service. Pertinent  
...ncy under Work Order

*[Signature]*  
...of the QUAD CITIES  
...Signature  
...me, Illinois  
...ved Repair Station  
...912C

REG. NO.	N52802
MAKE	CESSNA
MODEL	177RG
S/N	177RG 1274

MIDWEST AVTECH INC.  
I.V. REGIONAL AIRPORT  
P.O. BOX 451  
PERU, IL 61354

DATE	05/03/00
TACH	2940.8
T.T.	
SMOH	

TOTAL T  
IN SER

HOURS

REPLACED D.G. WITH SERVICABLE UNIT, S/N 26865C (SEE YELLOW TAG) - SYSTEM OPS CHECKS  
GOOD  
THE AIRCRAFT OR ENGINE IDENTIFIED ABOVE WAS REPAIRED AND INSPECTED IAW CURRENT FARs -  
ONLY THE WORK DESCRIBED ABOVE IS APPROVED FOR RETURN TO SERVICE

AUTHORIZED SIGNATURE,  
CERTIFICATE TYPE  
& NUMBER

CHARLES M. STUDER *[Signature]*

A&P 337545845 IA





REG. NO.	N52802
MAKE	CESSNA
MODEL	177RG
S/N	177RG1274

**MIDWEST AVTECH INC.**  
**I.V. REGIONAL AIRPORT**  
**P.O. BOX 451**  
**PERU, IL 61354**

DATE	08/25/00
TACH	2972.6
T.T.	2972.6
SMOH	

DATE	TOTAL TIME IN SERVICE
19__	HOURS

C/W AD 76-07-12 BY TESTING MAG SWITCH, NEXT DUE AT 3072 HRS - C/W AD 87-20-03R2 BY INSPECTING SEATS & RAILS, NEXT DUE AT NEXT ANNUAL - REPAIRED R/H AFT ENGINE BAFFLE - REMOVED & REINSTALLED BOTH GEAR LEGS TO REPLACE BRAKE SYSTEM O-RINGS, BLED & SERVICED BRAKE SYSTEM - REPLACED SEALS IN BOTH UPLOCK ACTUATORS - PERFORMED GEAR RETRACTION, SYSTEM OPS AND LEAK CHECKS GOOD - R&R DUAL WARNING UNIT WITH NEW CESSNA PART, SYSTEMS OPS CHECK GOOD - R&R 3 STATIC WICKS WITH NEW CESSNA PARTS - R&R #3 CHT PROBE WITH PMA PART - R&R VACUUM FILTERS - R&R ENGINE AIR FILTER - R&R NOSE WHEEL BEARINGS AND CUPS - R&R 4 POST LIGHT BULBS - INSPECTED ELT SYSTEM IAW FAR 91.207, NEXT BATTERY CHANGE DUE 8/01

I CERTIFY THAT THIS AIRCRAFT HAS BEEN INSPECTED IAW FAR 43, APPENDIX D FOR AN ANNUAL INSPECTION AND WAS FOUND TO BE IN AN AIRWORTHY CONDITION

AUTHORIZED SIGNATURE,  
 CERTIFICATE TYPE  
 & NUMBER

WILLIAM E. MIGLIORINI William E. Migliorini A&P 360625846 IA

**MAINTENANCE RECORD**

DATE	WORK PERFORMED	AUTHORIZED SIGNATURE, CERTIFICATE TYPE & NUMBER
19	Removed RT-359A s/n 14432, (2) RT-385A s/n 1619/3492, IN-386A s/n 728, IN-385A s/n 3091, AT-3000 s/n 09063, R-443B s/n 10428, R-402A s/n 9811, KA-92 s/n 14139, KLN-35A s/n 1969, and SPA-400 s/n 6016220. Installed GTX-327 s/n 83701197, GI-106A s/n E20682, PMA-7000MS-3 s/n H03436-F00352, GNS-430 s/n 97100600, GA-56 s/n 59051783, KI-208 s/n 71032, KX-155A s/n 18586, SSD120 s/n C47178, and Cyclone 21 s/n 1506. See revised Wt. & Bal. and 337 this date.	

*installed*

**THE AIRCRAFT/COMPONENT IDENTIFIED WAS REPAIRED AND INSPECTED IN ACCORDANCE WITH CURRENT REGULATIONS OF THE FEDERAL AVIATION ADMINISTRATION AND IS APPROVED FOR RETURN TO SERVICE.**  
**PERTINENT DETAILS OF THE REPAIR ARE ON FILE AT THIS REPAIR STATION UNDER**  
 WO 4635 DATE 11-16-00  
 RELEASED BY David M. High  
 AVIONICS PLACE  
 FAA APPROVED REPAIR STATION F05R866M

ME  
 88

REG. NO.	N52802	MIDWEST AVTECH INC. I.V. REGIONAL AIRPORT P.O. BOX 451 PERU, IL 61354	DATE	12/09/00
MAKE	CESSNA		TACH	2996.0
MODEL	177RG		T.T.	
S/N	177RG1274		SMOH	

C/W AD 99-24-10 BY INSTALLATION OF SVS V SYSTEM (VALVE S/N 17862), INCLUDING APPROPRIATE PLACARDS AND FLIGHT MANUAL SUPPLEMENT IAW ALTERNATE METHOD OF COMPLIANCE DATED 2/4/00 (SEE ATTACHED), NO FURTHER ACTION REQUIRED - REMOVED AND REINSTALLED ENGINE MONITOR AFTER REPAIR BY JP INSTRUMENT (SEE MAINTENANCE RELEASE), SYSTEM OPS CHECKS GOOD - THE AIRCRAFT OR ENGINE IDENTIFIED ABOVE WAS REPAIRED AND INSPECTED IAW CURRENT FARs - ONLY THE WORK DESCRIBED ABOVE IS APPROVED FOR RETURN TO SERVICE

CHARLES M. STUDER *Charles M Studer* A&P 337545845 IA

AUTHORIZED SIGNATURE  
CERTIFICATE TYPE  
& NUMBER

DATE	TOTAL TIME IN SERVICE
19__	HOURS

REG. NO.	N52802	MIDWEST AVTECH INC. I.V. REGIONAL AIRPORT P.O. BOX 451 PERU, IL 61354	DATE	06/28/01
MAKE	CESSNA		TACH	3049.7
MODEL	177RG		T.T.	
S/N	177RG1274		SMOH	

REPAIRED CO-PILOTS SEAT BY REPLACING SEAT RECLINE TUBE WITH NEW CESSNA PART THE AIRCRAFT OR ENGINE IDENTIFIED ABOVE WAS REPAIRED AND INSPECTED IAW CURRENT FARs - ONLY THE WORK DESCRIBED ABOVE IS APPROVED FOR RETURN TO SERVICE

BRYAN G. HARTMAN *Bryan Hartman* A&P 354729066



U.S. Department  
of Transportation  
**Federal Aviation  
Administration**  
FEB 4 2000

In Reply  
Refer To: 190S-00-122

Mr. Scott Philiben  
Engineering Manager  
Precise Flight, Inc.  
63120 Powell Butte Road  
Bend, OR 97701

Dear Mr. Philiben:

We have received your electronic mail, dated February 4, 2000, requesting an alternative method of compliance to Airworthiness Directive (AD) 99-24-10, applicable to various model aircraft, included on STC SA2160NM, SA2161NM, SA2162NM, SA2163NM, SA2164NM, SA2166NM, SA2167NM, SA2168NM, and SA2183NM. You are requesting approval to install the Standby Vacuum System model V (SVS V) as described in Precise Flight, Inc. Installation Report No. 08072, Revision I/R, dated December 22, 1999, with appropriate Airplane Flight Manual Supplement for the SVS V.

We hereby approve the installation of the SVS V, in accordance with Installation Report No. 08072, Revision I/R, dated December 22, 1999, and appropriate FAA approved Airplane Flight Manual Supplement, as listed in the table below, as alternative method of compliance to AD 99-24-10.

Standby Vacuum System	Installation Report including instructions for Continued Airworthiness	FAA Approved Airplane Flight Manual Supplement
Manual Valve	Installation Report No. 08072 Revision I/R, dated December 22, 1999.	Airplane Flight Manual Supplement for the SVS V, Revision -, dated February 4, 2000
Push Operated Cable Valve	Installation Report No. 08072 Revision I/R, dated December 22, 1999.	Airplane Flight Manual Supplement for the SVS V, Revision -, dated February 4, 2000
Pull Operated Cable Valve	Installation Report No. 08072 Revision I/R, dated December 22, 1999.	Airplane Flight Manual Supplement for the SVS V, Revision -, dated February 4, 2000

Sincerely,

Ali Bahrami  
Manager, Seattle Aircraft

Transport Airplane Directorate  
Aircraft Certification Service

1601 Lind Avenue S.W.  
Renton, Washington 98055-4056

AUTHORIZED SIGNATURE,  
CERTIFICATE TYPE  
& NUMBER

APPROPRIATE  
DATE DATED 2/4/00  
METHOD OF COMPLIANCE MONITOR  
INSTALLLED ENGINE GOOD -

REG. NO.	N52802
MAKE	CESSNA
MODEL	177RG
S/N	177RG1274

MIDWEST AVTECH INC.  
 I.V. REGIONAL AIRPORT  
 P.O.BOX 451  
 PERU, IL 61354

DATE	12/09/00
TACH	2996.0
T.T.	
SMOH	

C/W AD 99-24-10 BY INSTALLATION OF SVS V SYSTEM (VALVE S/N 17862), INCLUDING APPROPRIATE PLACARDS AND FLIGHT MANUAL SUPPLEMENT IAW ALTERNATE METHOD OF COMPLIANCE DATED 2/4/00 (SEE ATTACHED), NO FURTHER ACTION REQUIRED - REMOVED AND REINSTALLED ENGINE MONITOR AFTER REPAIR BY JP INSTRUMENT (SEE MAINTENANCE RELEASE), SYSTEM OPS CHECKS GOOD - THE AIRCRAFT OR ENGINE IDENTIFIED ABOVE WAS REPAIRED AND INSPECTED IAW CURRENT FARs - ONLY THE WORK DESCRIBED ABOVE IS APPROVED FOR RETURN TO SERVICE

CHARLES M. STUDER *Charles M Studer* A&P 337545845 IA

AUTHORIZED SIGNATURE,  
 CERTIFICATE TYPE  
 & NUMBER

REG. NO.	N52802
MAKE	CESSNA
MODEL	177RG
S/N	177RG1274

MIDWEST AVTECH INC.  
 I.V. REGIONAL AIRPORT  
 P.O.BOX 451  
 PERU, IL 61354

DATE	06/28/01
TACH	3049.7
T.T.	
SMOH	

REPAIRED CO-PILOTS SEAT BY REPLACING SEAT RECLINE TUBE WITH NEW CESSNA PART THE AIRCRAFT OR ENGINE IDENTIFIED ABOVE WAS REPAIRED AND INSPECTED IAW CURRENT FARs - ONLY THE WORK DESCRIBED ABOVE IS APPROVED FOR RETURN TO SERVICE

BRYAN G. HARTMAN *Bryan Hartman* A&P 354729066

DATE	TOTAL TIME IN SERVICE
19	HOURS

**MAINTENANCE RECORD**

REG. NO.	N52802	<b>MIDWEST AVTECH INC.</b> <b>I.V. REGIONAL AIRPORT</b> <b>P.O.BOX 451</b> <b>PERU, IL 61354</b>	DATE	08/30/01
MAKE	CESSNA		TACH	3072.2
MODEL	177RG		T.T.	3072.2
S/N	177RG1274		SMOH	

C/W AD 76-07-12 BY TESTING MAG SWITCH, NEXT DUE AT 3172 HRS - C/W AD 87-20-03R2 BY INSPECTING SEATS AND RAILS, NEXT DUE AT NEXT ANNUAL - REMOVED AND REINSTALLED MANIFOLD PRESSURE / FUEL FLOW GAGE AFTER OVERHAUL BY ELLIOTT AVIATION (SEE FORM 8130-3), OPS AND LEAK CHECK GOOD - REPLACED MAX POWER PLACARD WITH NEW CESSNA PART - R&R ENGINE AIR FILTER ELEMENT - PERFORMED GEAR RETRACTION - TREATED ENTIRE FUSELAGE, WINGS AND TAIL SURFACES WITH CORROSION X - REPLACED ELT BATTERY, SYSTEM OPS CHECKS GOOD IAW FAR 91.207, NEXT BATTERY CHANGE DUE 09/03  
 I CERTIFY THAT THIS AIRCRAFT HAS BEEN INSPECTED IAW FAR 43, APPENDIX D FOR AN ANNUAL INSPECTION AND WAS FOUND TO BE IN AN AIRWORTHY CONDITION

WILLIAM E. MIGLIORINI *William E. Migliorini* A&P 360625846 IA

REG. NO.	N52802	<b>MIDWEST AVTECH INC.</b> <b>I.V. REGIONAL AIRPORT</b> <b>P.O.BOX 451</b> <b>PERU, IL 61354</b>	DATE	05/04/02
MAKE	CESSNA		TACH	3155.2
MODEL	177RG		T.T.	
S/N	177RG1274		SMOH	

REPLACED AIRCRAFT BATTERY WITH NEW GILL G-242, S/N G01874813 - SYSTEM OPS CHECKS GOOD THE AIRCRAFT OR ENGINE IDENTIFIED ABOVE WAS REPAIRED AND INSPECTED IAW CURRENT FARs - ONLY THE WORK DESCRIBED ABOVE IS APPROVED FOR RETURN TO SERVICE

BRYAN G. HARTMAN *Bryan Hartman* A&P 354729066

The FAA Form 8130-3 (1-93)  
 is important to understand that the aircraft must be maintained in accordance with the applicable regulations. The FAA Form 8130-3 (1-93) is used to document the work performed on an aircraft. It is important to understand that the aircraft must be maintained in accordance with the applicable regulations. The FAA Form 8130-3 (1-93) is used to document the work performed on an aircraft.

AUTHORIZED SIGNATURE  
 CERTIFICATE  
 & NUMBER

# FAA FORM 8130-3 AIRWORTHINESS APPROVAL TAG

U.S. Department of Transportation  
Federal Aviation Administration

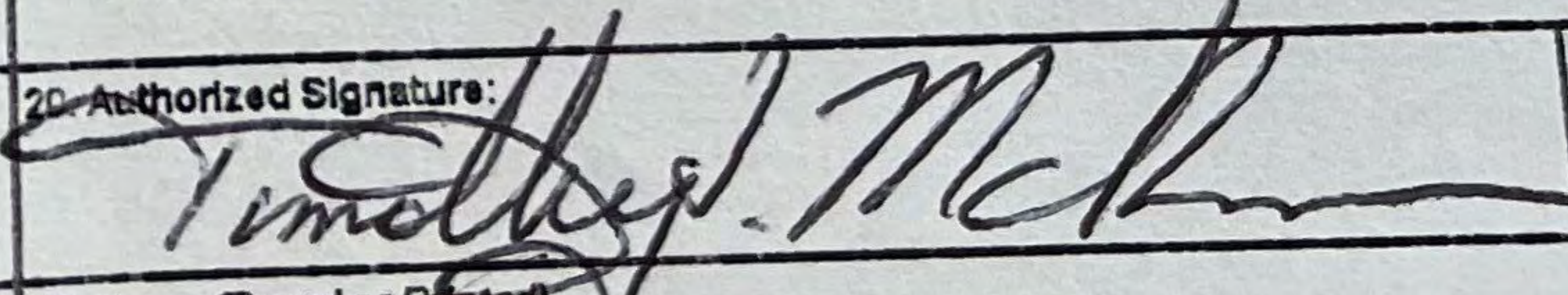
1. <b>United States</b>					3. System Tracking Ref. No. <b>286672</b>	
4. Organization <b>Elliott Aviation Inc. PO Box 100 Quad City Airport Moline, IL 61266-0100</b>					5. Work Order, Contract or Invoice Number: <b>286672</b>	
6. Item	7. Description	8. Part Number	9. Eligibility*	10. Quantity	11. Serial/Batch Number	12. Status/Work
1	Manifold/Fuel Pressure Gauge	6333-H.38	Various	1	81369	Overhauled

13. Remarks  
Overhauled and function tested unit to manufacturer's specifications in accordance with maintenance manual with p/n 6333 series.

*Limited life parts must be accompanied by maintenance history including total time/total cycles/time since new.*

14. New   
Newly Overhauled   
Certifies 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.  
**Note:** In case of parts to be exported, the special requirements of the importing country have been met.

19. **Return to 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.**

15. Signature	16. FAA Authorization No.:	20. Authorized Signature: 	21. Certificate Number: <b>CGHR812C</b>
17. Name (Typed or Printed)	18. Date:	22. Name (Typed or Printed) <b>Timothy J. McKune</b>	23. Date: <b>8/24/01</b>

\* (Optional) installer must cross check eligibility with applicable technical data.

**Airworthiness Approval Tag**  
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 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 ensure 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 19 do not constitute installation. 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.

19. _____	HOURS	1	S/N	CW AD 76 07 12 BY	RU, IL 61354	3072
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WAUKEGAN AVIONICS  
WAUKEGAN IL 60087 CRS WOGR619K

TABLE 1 SCALE ERROR			TABLE 2 TEST TOLERANCES			TABLE 4 PRESSURE ALT. DIFF.				TABLE 3 FRICTION		
ALT	TOL	IND	CASE LEAK	TOL	IND	PRESS	HG IND	TOL	DIFF	ALT	TOL	IND
-1000	20	-989		100	0	28.10	-1727	25	-1730	1000	70	35
0	20	10				28.50	-1340	25	-1340	2000	70	45
500	20	510	HYSTERISIS			29.00	-863	25	-860	3000	70	50
1000	20	1010	1st TEST POINT	75	22	29.50	-392	25	-400	5000	70	55
1500	20	1509	(50% MAX ALT)			29.92	0	25	0	10000	80	60
2000	30	2010	2nd TEST POINT	75	28	30.50	531	25	530	15000	90	75
3000	30	3011	(40% MAX ALT)			30.90	893	25	900	20000	100	80
4000	35	4012	AFTER EFFECT	30	20	30.99	974	25	980	25000	120	
6000	40	6011								30000	140	
8000	60	8022								35000	160	
10000	80	10034								40000	180	
12000	90	12026	ALTIMETER TESTED TO 20,000 Feet							50000	250	
14000	100	14003	DATE TESTED	6/1/02								
16000	110	15975	AIRCRAFT N NUMBER	52802								
18000	120	17942	CUSTOMER	JIM HAUSER								
20000	130	19900	SERVICE ORDER #	11255								
22000	140		ALTIMETER P/N	5934P-1								
15000	155		ALTIMETER S/N	8860								
30000	180		ADC/ENCODER P/N	SSD-120-XXA								
35000	205		ADC/ENCODER S/N	A47178								
40000	230		TRANSPONDER MODEL	GTX-327								
45000	255		TRANSPONDER S/N	83701197								
50000	280		Tested in compliance with FAR Part 43, Appendix E.									
53000	295		Authorized Signature	<i>Steve Goodwin</i>								
55000	305											

I certify that the Altimeter and Static System Tests as required by FAR 91.411, Paragraphs A, B and C have been performed.

The altimeter P/N 5934P-1 S/N 8860

Was tested to 20,000 feet on 6-1-02

The ATC Transponder Tests and Inspections as required by FAR 91.413 IAW FAR 43, appendix F have been performed.

Model GTX 327 S/N 83701197

Signed Steve Goodwin Date 6-1-02

For **WAUKEGAN AVIONICS, CRS#WOGR619K**

DATE	TOTAL TIME IN SERVICE	
	HOURS	10ths
19__		

A&P 354729066

*Bryan Hartman*

BRYAN G. HARTMAN

ONLY THE WORK DESIGNED

MAINTENANCE RECORD

DATE	REG. NO.	N52802	MIDWEST AVTECH INC.	DATE	08/01/02
19__	MAKE	CESSNA	I.V. REGIONAL AIRPORT	TACH	3181.1
	MODEL	177RG	P.O.BOX 451	T.T.	3181.1
	S/N	177RG1274	PERU, IL 61354	SMOH	

AUTHORIZED SIGNATURE  
CERTIFICATE TYPE  
& NUMBER

C/W AD 76-07-12 BY TESTING MAG SWITCH, NEXT DUE AT 3281 HRS - C/W AD 87-20-03R2 BY INSPECTING SEATS AND RAILS, NEXT DUE AT NEXT ANNUAL - REPLACED TAIL BEACON WITH WHELEN STROBE SYSTEM IAW STC SA800EA (SEE FORM 337) - R&R R/H BRAKE LININGS - R&R R/H STROBE FLASH TUBE, OPS CHECK GOOD - R&R VACUUM SYSTEM FILTERS - R&R ENGINE AIR FILTER ELEMENT - PERFORMED GEAR RETRACTION - REMOVED ELT FOR REPAIR, M/N - DM ELT 6.1, S/N - 6557  
I CERTIFY THAT THIS AIRCRAFT HAS BEEN INSPECTED IAW FAR 43, APPENDIX D FOR AN ANNUAL INSPECTION AND WAS FOUND TO BE IN AN AIRWORTHY CONDITION

WILLIAM E. MIGLIORINI William E. Migliorini A&P 360625846 IA

REG. NO.	N52802	MIDWEST AVTECH INC.	DATE	09/14/02
MAKE	CESSNA	I.V. REGIONAL AIRPORT	TACH	3194.6
MODEL	177RG	P.O.BOX 451	T.T.	
S/N	177RG1274	PERU, IL 61354	SMOH	

REINSTALLED E.L.T. S/N 4373 AFTER REPAIR BY MERL, INC. - SYSTEM OPS CHECKS GOOD IAW FAR 91.207, NEXT BATTERY CHANGE DUE 10/03  
THE AIRCRAFT OR ENGINE IDENTIFIED ABOVE WAS REPAIRED AND INSPECTED IAW CURRENT FARs - ONLY THE WORK DESCRIBED ABOVE IS APPROVED FOR RETURN TO SERVICE

CHARLES M. STUDER Charles M. Studer A&P 337545845 IA

WORTHINESS  
MERL, INC  
ITEM

Cert

REG. NO.	N52802
MAKE	CESSNA
MODEL	177RG
S/N	177RG1274

MIDWEST AVTECH INC.  
 I.V. REGIONAL AIRPORT  
 P.O. BOX 451  
 PERU, IL 61354

DATE	04/10/03
TACH	3244.1
T.T.	
SMOH	

REPLACED VACUUM PUMP WITH NEW PUMP S/N N15375, SYSTEM OPS CHECKS GOOD - REPLACED ALTERNATOR BELT WITH NEW CESSNA PART - REMOVED AND REINSTALLED PROP AFTER REPAIR BY AIRCRAFT PROPELLER (SEE PROP LOG FOR FORM 8130-3) - REPLACED SHIMMY DAMPER SEALS, SERVICED DAMPER, LEAK CHECK GOOD -

THE AIRCRAFT OR ENGINE IDENTIFIED ABOVE WAS REPAIRED AND INSPECTED IAW CURRENT FARs - ONLY THE WORK DESCRIBED ABOVE IS APPROVED FOR RETURN TO SERVICE

BRYAN G. HARTMAN *Bryan Hartman* A&P 354729066

AUTHORIZED SIGNATURE,  
 CERTIFICATE TYPE  
 & NUMBER

REG. NO.	N52802
MAKE	CESSNA
MODEL	177RG
S/N	177RG1274

MIDWEST AVTECH INC.  
 I.V. REGIONAL AIRPORT  
 P.O. BOX 451  
 PERU, IL 61354

DATE	04/25/03
TACH	3253.3
T.T.	
SMOH	

REPLACED ALTERNATOR MOUNT BRACKET WITH NEW CESSNA PART - REPAIRED ALTERNATOR WIRING - SYSTEM OPS CHECKS GOOD

I CERTIFY THAT THIS ENGINE HAS BEEN INSPECTED IAW FAR 43 APPENDIX D FOR AN ANNUAL INSPECTION AND WAS FOUND TO BE IN AN AIRWORTHY CONDITION

WILLIAM E. MIGLIORINI *William E. Migliorini* A&P 360625846 IA

DATE  
 19\_\_

TOTAL T  
 IN SERV  
 HOURS

## MAINTENANCE RECORD

DATE	TOTAL TIME IN SERVICE	
	HOURS	1

REG. NO.	N52802
MAKE	CESSNA
MODEL	177RG
S/N	177RG1274

**MIDWEST AVTECH INC.**  
 I.V. REGIONAL AIRPORT  
 P.O. BOX 451  
 PERU, IL 61354

DATE	09/15/03
TACH	3290.3
T.T.	3290.3
SMOH	

AUTHORIZED SIGNATURE,  
 CERTIFICATE TYPE  
 & NUMBER

C/W AD 76-07-12 BY TESTING MAG SWITCH, NEXT DUE AT 3390 HRS - C/W AD 87-20-03R2 BY INSPECTING SEATS AND RAILS, NEXT DUE AT NEXT ANNUAL - REMOVED AND REINSTALLED NOSE GEAR STEERING BUNGEE AFTER REPAIRING UPPER BEARING - REPLACED NOSE GEAR ACTUATOR HOUSING WITH USED SERVICABLE PART, ACTUATOR WAS REASSEMBLED USING NEW SEALS AND O-RINGS - REPLACED MAIN GEAR ACTUATOR ROD END WITH NEW CESSNA P/N S3469-1 ROD END - PERFORMED GEAR RETRACTION, SYSTEM OPS AND LEAK CHECKS GOOD - REPLACED BRAKE DISCS AND LININGS - REPLACED MAIN GEAR TIRES AND TUBES - R&R VACUUM REGULATOR FILTER - R&R ENGINE AIR FILTER - REPAIRED EXHAUST SYSTEM FWD HEAT SHIELD - REPLACED GEAR HORN WITH NEW CESSNA PART AND RIGGED THROTTLE SWITCH PER MAINTENANCE MANUAL - REPLACED MISSING INSTRUMENT PANEL COVER GROMMETS - REPLACED DEFROST DUCT - INSPECTED ELT SYSTEM IAW FAR 91.207, NEXT BATTERY CHANGE DUE 09/04

I CERTIFY THAT THIS AIRCRAFT HAS BEEN INSPECTED IAW FAR 43 APPENDIX D FOR AN ANNUAL INSPECTION AND WAS FOUND TO BE IN AN AIRWORTHY CONDITION

WILLIAM E. MIGLIORINI *William E. Migliorini* A&P 360625846 IA

Cert

### MAINTENANCE RECORD

DATE	TOTAL TIME IN SERVICE
19__	HOURS

REG. NO.	N52802
MAKE	CESSNA
MODEL	177RG
S/N	177RG1274

MIDWEST AVTECH INC.  
 I.V. REGIONAL AIRPORT  
 P.O. BOX 451  
 PERU, IL 61354

DATE	04/08/04
TACH	3362.7
T.T.	
SMOH	

AUTHORIZED SIGNATURE  
 CERTIFICATE TYPE  
 & NUMBER

REPLACED LANDING LIGHT BULB WITH NEW BULB P/N GE4591, OPS CHECK GOOD \* REPLACED L/H CENTER COWL MOUNT WITH NEW MOUNT P/N J7444-14  
 THE AIRCRAFT OR ENGINE IDENTIFIED ABOVE WAS REPAIRED AND INSPECTED IAW CURRENT FARs - ONLY THE WORK DESCRIBED ABOVE IS APPROVED FOR RETURN TO SERVICE

MICHAEL A. HUNTER Michael A. Hunter A&P 2712253

WAUKEGAN AVIONICS  
WAUKEGAN IL 60087 CRS WOGR619K

**TABLE 1**  
SCALE ERROR

ALT	TOL	IND
-1000	20	-1020
0	20	-10
500	20	490
1000	20	990
1500	20	1490
2000	30	1985
3000	30	2980
4000	35	3980
6000	40	5970
8000	60	7970
10000	80	9960
12000	90	11960
14000	100	13960
16000	110	15950
18000	120	18040
20000	130	20080
22000	140	
15000	155	
30000	180	
35000	205	
40000	230	
45000	255	
50000	280	
53000	295	
55000	305	

**TABLE 2**  
TEST TOLERANCES

CASE LEAK	TOL	IND
	100	10
HYSTERISIS		
1st TEST POINT (50% MAX ALT)	75	40
2nd TEST POINT (40% MAX ALT)	75	30
AFTER EFFECT	30	10

**TABLE 4**  
PRESSURE ALT. DIFF.

PRESS	HG	IND	TOL	DIFF
28.10	-1727	25	-1710	
28.50	-1340	25	-1350	
29.00	-863	25	-875	
29.50	-392	25	-410	
29.92	0	25	-10	
30.50	531	25	540	
30.90	893	25	880	
30.99	974	25	970	

**TABLE 3**  
FRICTION

ALT	TOL	IND
1000	70	20
2000	70	20
3000	70	20
5000	70	30
10000	80	30
15000	90	30
20000	100	30
25000	120	
30000	140	
35000	160	
40000	180	
50000	250	

ALTIMETER TESTED TO 20,000 FT Feet  
 DATE TESTED 5,19 04  
 AIRCRAFT N NUMBER 52802  
 CUSTOMER Jim Hausser  
 SERVICE ORDER # 12078  
 ALTIMETER P/N C661071-0101  
 ALTIMETER S/N N8860  
 ADC/ENCODER P/N SSD120  
 ADC/ENCODER S/N 47178  
 TRANSPONDER MODEL GTX 320  
 TRANSPONDER S/N 83701197  
 Tested in compliance with FAR Part 43, Appendix E.

Authorized Signature Steven Goodwin

DATE  
TOTAL TIME  
IN SERVICE

PILOT SYSTEM X  
 COPILOT SYS.  
 STANDBY SYS.

I Certify that the Altimeter and Static System Tests as required By FAR 91.411, Paragraphs A, B, and C have been performed

The altimeter P/N C661071-0101 S/N N8860

Was tested to 20,000 feet on 5/19/04

The ATC Transponder Tests and Inspections as required by FAR 91.413 IAW FAR 43, appendix F have been performed.

Model GTX 320 S/N 83701197

Signed Steven Goodwin Date 5/19/04

For Waukegan Avionics, Inc. CRS # WOGR619K

DESCRIPTION OF THE WORK PERFORMED

MAINTENANCE RECORD

AUTHORIZED SIGNATURE  
 CERTIFICATE TYPE  
 & NUMBER

89

TABLE 4	TABLE 5	TABLE 6	TABLE 7	TABLE 8	TABLE 9	TABLE 10	TABLE 11	TABLE 12	TABLE 13	TABLE 14	TABLE 15	TABLE 16	TABLE 17	TABLE 18	TABLE 19	TABLE 20	TABLE 21	TABLE 22	TABLE 23	TABLE 24	TABLE 25	TABLE 26	TABLE 27	TABLE 28	TABLE 29	TABLE 30	TABLE 31	TABLE 32	TABLE 33	TABLE 34	TABLE 35	TABLE 36	TABLE 37	TABLE 38	TABLE 39	TABLE 40	TABLE 41	TABLE 42	TABLE 43	TABLE 44	TABLE 45	TABLE 46	TABLE 47	TABLE 48	TABLE 49	TABLE 50	TABLE 51	TABLE 52	TABLE 53	TABLE 54	TABLE 55	TABLE 56	TABLE 57	TABLE 58	TABLE 59	TABLE 60	TABLE 61	TABLE 62	TABLE 63	TABLE 64	TABLE 65	TABLE 66	TABLE 67	TABLE 68	TABLE 69	TABLE 70	TABLE 71	TABLE 72	TABLE 73	TABLE 74	TABLE 75	TABLE 76	TABLE 77	TABLE 78	TABLE 79	TABLE 80	TABLE 81	TABLE 82	TABLE 83	TABLE 84	TABLE 85	TABLE 86	TABLE 87	TABLE 88	TABLE 89	TABLE 90	TABLE 91	TABLE 92	TABLE 93	TABLE 94	TABLE 95	TABLE 96	TABLE 97	TABLE 98	TABLE 99	TABLE 100
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PILOT SYSTEM  
COPILLOT SYS  
STANDBY SYS

ic System Tests as re  
nd C have been perf

ctions as require  
F have been perf

inc. CRS # WOGR

1. Approving National Aviation Authority/Country:  FAA/UNITED STATES	2. AUTHORIZED RELEASE CERTIFICATE FAA Form 8130-3, AIRWORTHINESS APPROVAL TAG	3. Form Tracking Number:  WRK0036341
--	--	--

4. Organization Name and Address:   MID-CONTINENT INSTRUMENT CO., INC 9400 E 34th ST. NORTH WICHITA, KS 67226	5. Work Order/Contract/Invoice Number:  WRK0036341
--	--

6. Item:	7. Description:	8. Part Number:	9. Eligibility:	10. Quantity:	11. Serial/Batch Number:	12. Status/Work:
1	ATTITUDE GYRO	23-501-017 5000F-6	N/A	1	A9136J	OVERHAULED

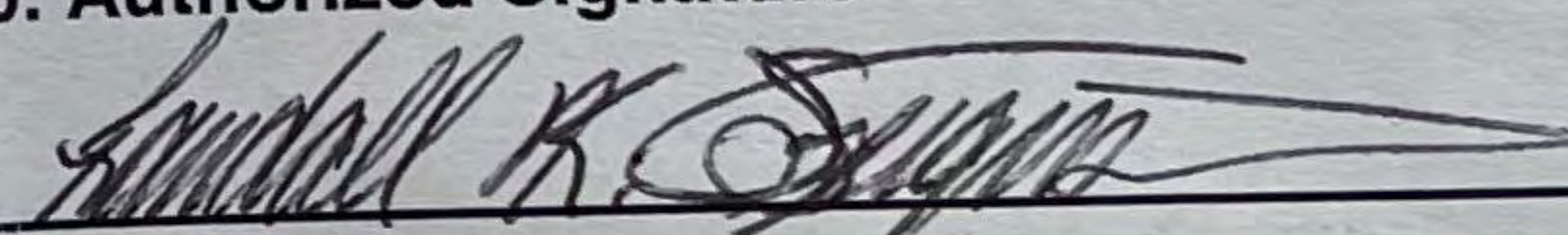
13. Remarks:  
**THE WORK ORDER REFERENCED DESCRIBES THE ACTUAL WORK PERFORMED.**  
**ALL WORK WAS PERFORMED I.A.W MANUAL # 86M024 12/1/78**  
The work specified in block 12/13 except as otherwise specified was carried out in accordance with JAR 145 and in respect to that work the aircraft component is considered ready for release to service under JAA Acceptance Certificate Number JAA 4675

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

Approved design data and are in condition for safe operation.  
 Non-approved design data specified in Block 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.: FAA CRS OL2R061L
17. Name (Typed or Printed):	18. Date (m/d/y):	22. Name (Typed or Printed): RANDALL FERGUSON	23. Date (m/d/y): 5/12/2004

**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 accepts parts/components/assemblies from the airworthiness authority of the country specified in Block 1.

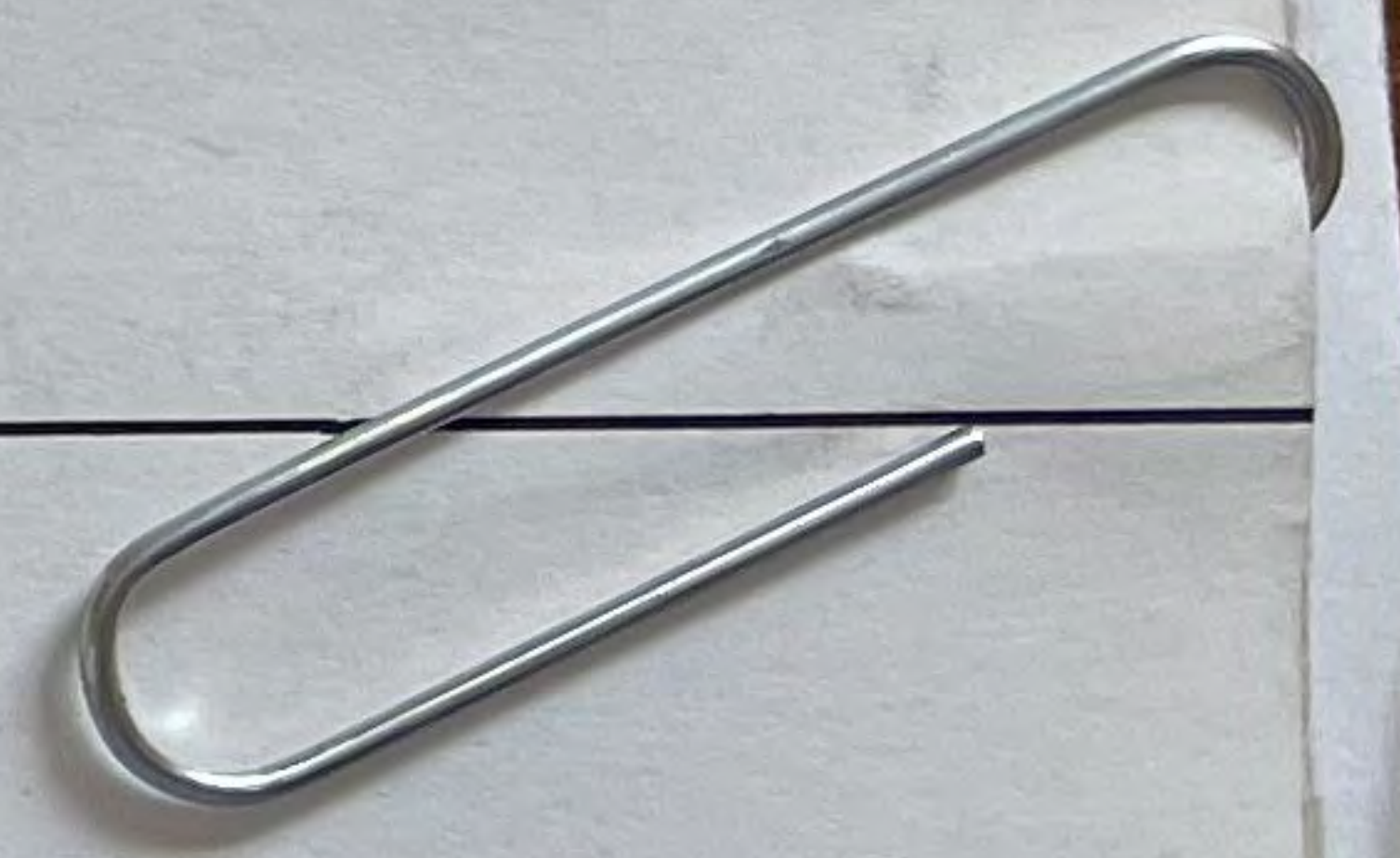
Statements in Blocks 14 and 19 do not constitute installation certification. In all cases, aircraft maintenance records must contain an installation certification issued in accordance with the national regulations by the installer/user before the aircraft may be flown.

TAB  
SCALE  
ALT TOL  
-1000 20  
0 20  
500 20  
1000 20  
1500 20  
2000 30  
3000 30  
4000 35  
6000 40  
8000 60  
10000 80  
12000 90  
14000 100  
16000 110  
18000 120  
20000 130  
22000 140  
15000 150  
30000 180  
35000 200  
40000 230  
45000 250  
50000 280  
53000 290  
55000 300

IC By The Wa The FA Mo Sig

### MAINTENANCE RECORD

DATE	TOTAL TIME IN SERVICE		DESCRIPTION OF THE WORK PERFORMED	AUTHORIZED SIGNATURE, CERTIFICATE TYPE & NUMBER
	HOURS	10ths		
19__			<p style="text-align: center;">WAUKEGAN AVIONICS</p> <p style="text-align: center;">N52802 CESSNA 177RG S/N 177RG1274 WO#12078 MAY 19,04</p> <p style="text-align: center;">Removed attitude Gyro P/N 23-501-017 S/N 69779F and installed overhauled exchange P/N 23-501-017 S/N A9136J. Function test O.K.</p> <p style="text-align: center;">STEVEN J. GOODWIN  <i>Steven Goodwin</i>            -----</p> <p style="text-align: center;">C.R.S#WOG619k</p>	



API-Tech 901-259-4551/4554  
3778 DISTRIplex DR NORTH - MEMPHIS TN 38118

FAX 901-259-4552

06-11-04  
Wo# A04060175

NAME: WAUKEGAN AVIONICS

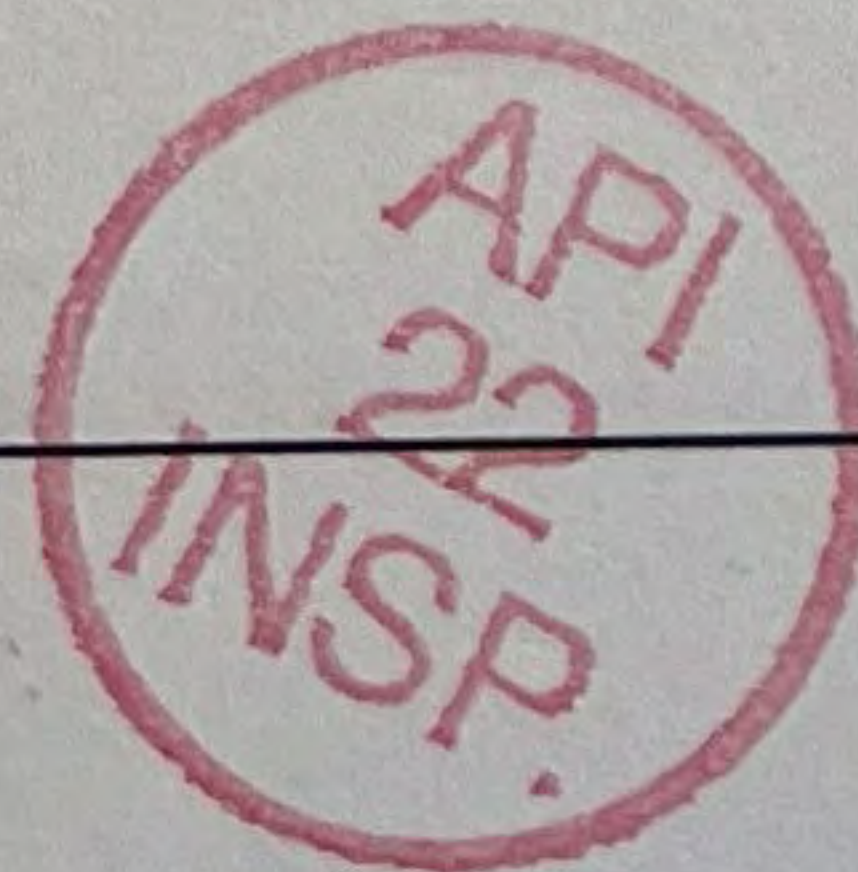
P.O.: 4494

Ph:

1 1 156V001-3S0420

WE HEREBY CERTIFY THAT THE ABOVE PARTS, INCLUDING ALL MATERIALS, HAVE BEEN MANUFACTURED, TESTED, INSPECTED AND PACKED IN CONFORMANCE WITH ALL OF THE REQUIREMENTS OF YOUR ORDER AND THE APPLICABLE GOVERNMENT SPECIFICATIONS & STANDARDS. RECORDS OF TESTS, INSPECTION AND CERTIFICATION INDICATING THE ABOVE CONFORMANCE ARE ON FILE AT AEROSPACE PRODUCTS INT'L AND ARE AVAILABLE FOR YOUR EXAMINATION. IT IS FURTHER CERTIFIED THAT (A) THE TSO'D PARTS AND/OR MATERIALS REFLECTED HEREIN WERE PRODUCED UNDER FEDERAL AVIATION ADMINISTRATION APPROVED MANUFACTURING AND QUALITY CONTROL SYSTEMS/METHODS AS SET FORTH IN THE FAA ISSUED TECHNICAL STANDARD ORDER AUTHORIZATIONS (TSOA) ISSUED TO STRATOFLEX AND (B) SUCH PARTS AND/OR MATERIAL ARE NEW AND ARE IN CONDITION FOR SAFE OPERATION.

FOR API \_\_\_\_\_



**MAINTENANCE RECORD**

DESCRIPTION OF THE WORK PERFORMED

AUTHORIZED SIGNATURE,  
CERTIFICATE TYPE  
& NUMBER

10ths

**AIRCRAFT LOGBOOK ENTRY**

**N52802**

**CESSNA 172RG**

**S/N 172RG1274**

**WO# 6378**

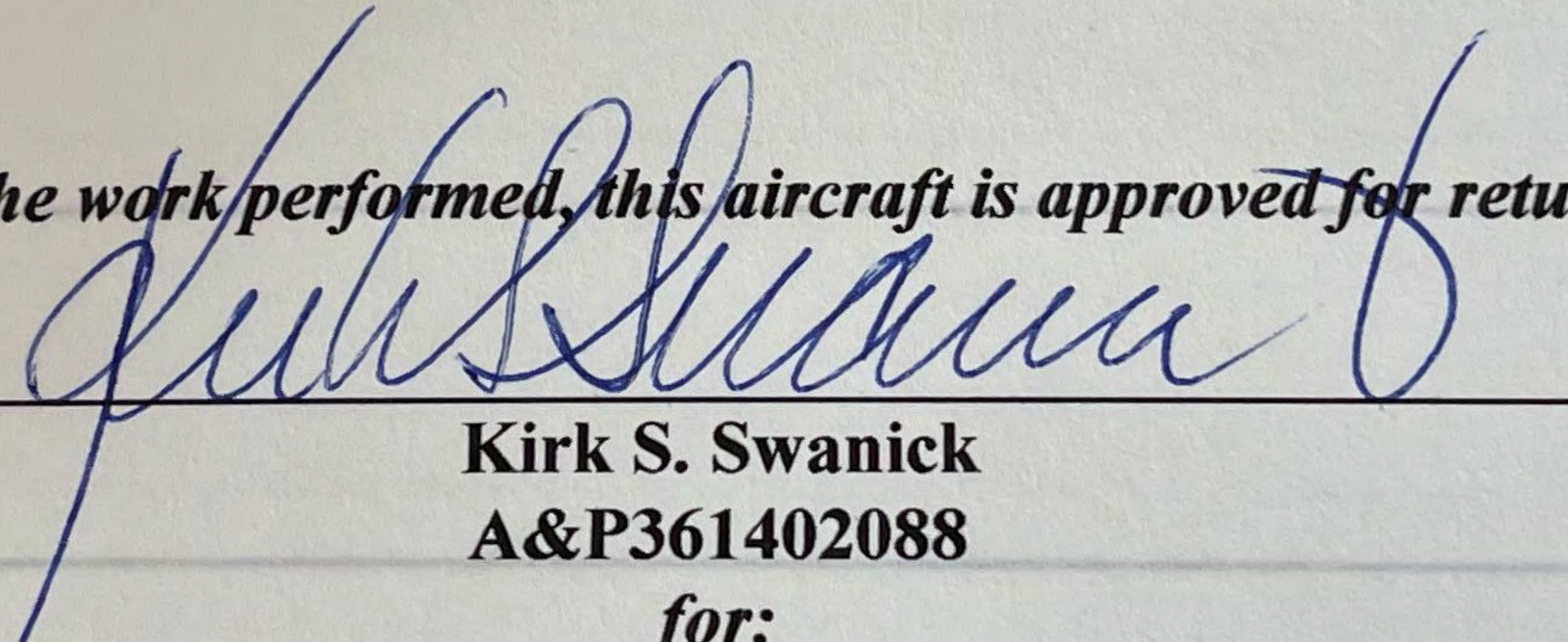
**6/15/04**

**TACH: 3377.8**

leak checked OK.

Removed leaking fuel line from firewall to flow divider for indicated fuel flow, installed new line P/N 1-156V001-3SO420 from API Hose Shop. Pressure and

*With respect to the work performed, this aircraft is approved for return to service.*



**Kirk S. Swanick**

**A&P361402088**

*for:*

**Waukegan Avionics**

**Waukegan, IL**



### MAINTENANCE RECORD

DATE	TOTAL TIME IN SERVICE		DESCRIPTION OF THE WORK PERFORMED	AUTHORIZED SIGNATURE, CERTIFICATE TYPE & NUMBER
	HOURS	10ths		
19__				
10/13/04			TAEN TIME 3417 HRS; TTAF 3417; REPLACED O-RINGS ON MAIN GEAR RETURNER; REPLACED GEAR FLEX HOSES; REPLACED DOW LOCK NOSE BUMPER PAD; REINSTALLED COMPASS AFTER ATT WORKER REPLACEMENT; REPLACED COMPASS W LEFT BULB; REPLACED AIR FILTER ELEMENT; REPLACED OIL COOLER TO COWL DUCT; REPLACED LEFT CALIPER O-RING; REPLACED RT GEAR UPPER O-RINGS ON LAG BAR BRANCH SYSTEM; CW AD 93-05-06 GEARBOX IGNITION SWITCH IS INSTALLED, INSTALLED STARTER DEODS + LUBES SWITCH, DUE 2000 HRS; CW AD 7-20-03R2 SEATS + RALES DUE ANNUNCIATE; ALL ROUTINE ITEMS CHECKED AS PER INSPECTION SHEETS; RT CHECKED PER FAR 91.207B (FAR 05); ALL ROUTINE ITEMS CHECKED AS PER INSPECTION SHEETS; I CERTIFY THAT THIS AIRFRAME HAS BEEN INSPECTED IN ACCORDANCE WITH AN ANNUAL INSPECTION AND WAS DETERMINED TO BE IN AIRWORTHY CONDITION.	
			[Signature] 3997643172A	

**MAINTENANCE RECORD**

68

**OZARK AIRCRAFT MAINTENANCE LLC**

CAPE GIRARDEAU REGIONAL AIRPORT  
CAPE GIRARDEAU MO 63701

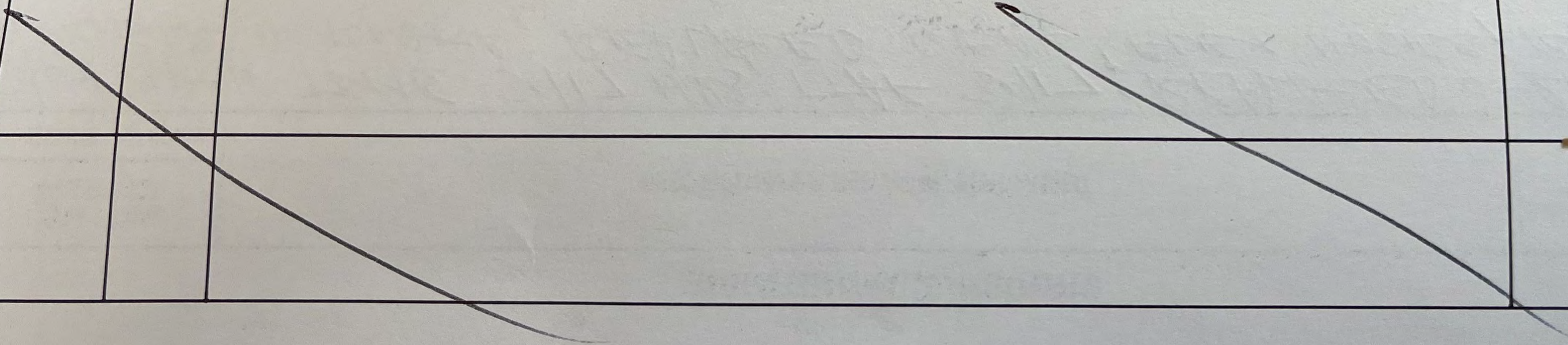
AUTHORIZED SIGNATURE,  
CERTIFICATE TYPE  
& NUMBER

DATE	TOTAL TIME IN SERVICE	
	HOURS	10ths
19__		


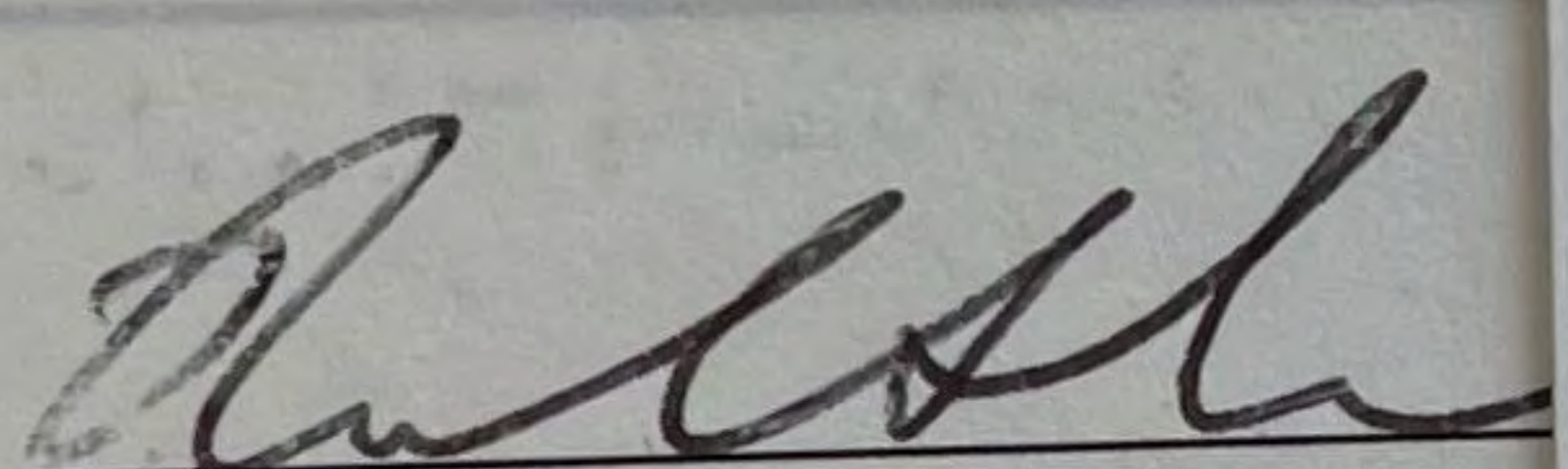
N52802 Cessna 177RG S/N 177RG1274  
May 22, 2004 Tach 3368.09  
On this date installed new 4591 taxi light. Operational check normal. Aircraft returned to service for work performed only

Brian J Ozark AP041640790

10/14/04 TACH TIME 3417 HRS; REPLACED STARTER CONTROLLER  
Paul Hull  
399764317EA



## MAINTENANCE RECORD

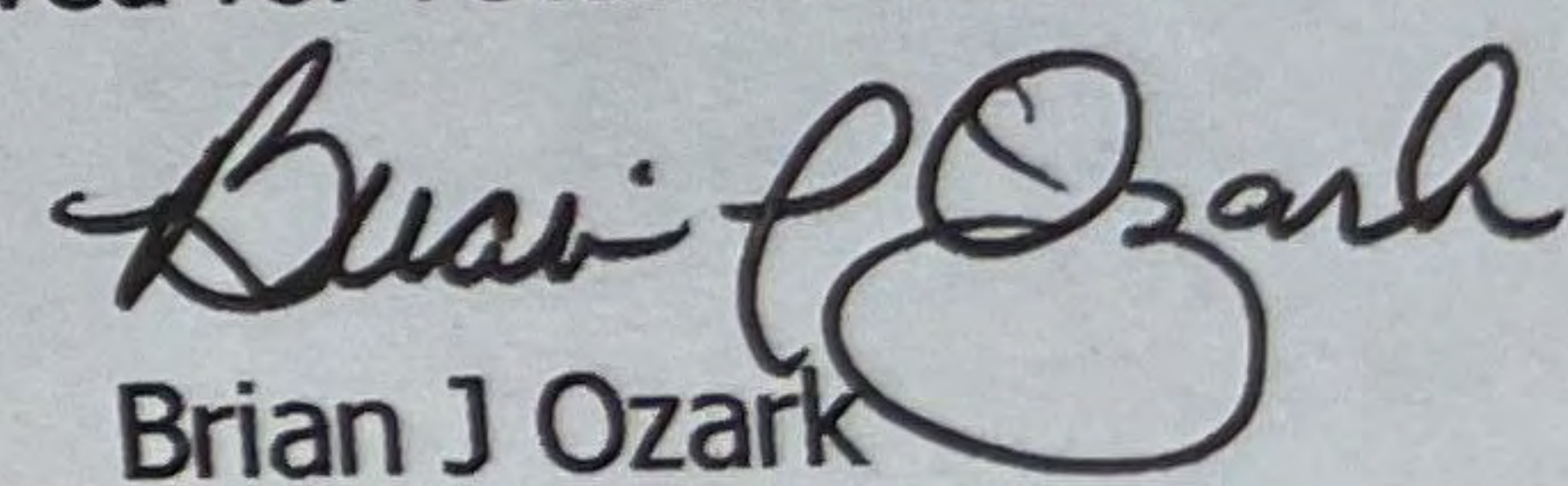
DATE	TOTAL TIME IN SERVICE		DESCRIPTION OF THE WORK PERFORMED	AUTHORIZED SIGNATURE, CERTIFICATE TYPE & NUMBER
	HOURS	10ths		
19__				
			 <p>9870 W 52nd Street Kenosha WI 53144 (262)656-1260 Email: aviationplusllc@aol.com</p>	
			<p><b>02/02/05 N52802 Tach 3454</b> Replaced o-rings in right brake swivel</p>	
			 Robert Russell	

### OZARK AIRCRAFT MAINTENANCE

CAPE GIRARDEAU REGIONAL AIRPORT  
CAPE GIRARDEAU MO

June 11, 2005 N52802 Tach 3499.8 Total time 3499.8  
Cessna 177RG S/N 177RG1274

On this date remove cowl and checked alternate air door for proper operation no defects noted. Installed new GE4594 landing light bulb and operationally checked ok. Replaced 1 ea J7444-14 shock mount on lower left side. Ground ran engine and checked out O.K. This aircraft is approved for return to service for work performed only.

  
 Brian J Ozark  
 A&P041640790

ME 88

### MAINTENANCE RECORD

DATE	TOTAL TIME IN SERVICE		DESCRIPTION OF THE WORK PERFORMED	AUTHORIZED SIGNATURE, CERTIFICATE TYPE & NUMBER
	HOURS	10ths		
19__				
10/17/05			<p>TAKEN TIME 3541 HRS; TTAK 3541 HRS; REPLACED OIL COOLER WITH STEWART WARNER MODEL 10599R; (337 FUELS) IN STORED AUX RADIO MASTER; REPLACED ONIF STAIRS WHEEL ON RT ALLISON; REPLACED NOSE DOWN LOCK BUMPER STRAP; BUS BATTERY REPLACED (NOV 07); FUEL CHECKED AS PER FAR 91.207; CW AD 87-00-03 R2 STATS + RAULS, PUB ANNUAL; ALL ROUTINE ITEMS CHECKED AS PER INSPECTION SHEETS; I CERTIFY THAT THIS AIRFRAME HAS BEEN INSPECTED IN ACCORDANCE WITH AN ANNUAL INSPECTION AND WAS DETERMINED TO BE IN AIRWORTHY CONDITION.</p>	
				<p><i>[Signature]</i> 3997643172A</p>

## MAINTENANCE RECORD

DATE	TOTAL TIME IN SERVICE		DESCRIPTION OF THE WORK PERFORMED	AUTHORIZED SIGNATURE																				
	HOURS	10ths			CERTIFICATE TYPE & NUMBER																			
19__			<table border="1" style="margin: auto; border-collapse: collapse;"> <tr> <td style="width: 15%;">REG. NO.</td> <td style="width: 20%;">N52802</td> <td style="width: 35%; text-align: center;">MIDWEST AVTECH INC.</td> <td style="width: 15%;">DATE</td> <td style="width: 15%;">05/05/06</td> </tr> <tr> <td>MAKE</td> <td>CESSNA</td> <td style="text-align: center;">I.V. REGIONAL AIRPORT</td> <td>TACH</td> <td>3560.0</td> </tr> <tr> <td>MODEL</td> <td>177RG</td> <td style="text-align: center;">P.O.BOX 451</td> <td>T.T.</td> <td></td> </tr> <tr> <td>S/N</td> <td>177RG1274</td> <td style="text-align: center;">PERU, IL 61354</td> <td>SMOH</td> <td></td> </tr> </table> <p style="text-align: center; margin-top: 5px;">REPLACED DIRECTIONAL GYRO WITH NEW SIGMA-TEK GYRO M/N 4000D-6, S/N T70845Q - REPLACED VACUUM SYSTEM FILTERS - SYSTEM OPS CHECKS GOOD</p> <p style="text-align: center; margin-top: 5px;">THE AIRCRAFT OR ENGINE IDENTIFIED ABOVE WAS REPAIRED AND INSPECTED IAW CURRENT FARs - ONLY THE WORK DESCRIBED ABOVE IS APPROVED FOR RETURN TO SERVICE</p> <p style="text-align: center; margin-top: 10px;">CHARLES M. STUDER <u><i>Charles M. Studer</i></u> A&amp;P 337545845 IA</p>	REG. NO.	N52802	MIDWEST AVTECH INC.	DATE	05/05/06	MAKE	CESSNA	I.V. REGIONAL AIRPORT	TACH	3560.0	MODEL	177RG	P.O.BOX 451	T.T.		S/N	177RG1274	PERU, IL 61354	SMOH		
REG. NO.	N52802	MIDWEST AVTECH INC.	DATE	05/05/06																				
MAKE	CESSNA	I.V. REGIONAL AIRPORT	TACH	3560.0																				
MODEL	177RG	P.O.BOX 451	T.T.																					
S/N	177RG1274	PERU, IL 61354	SMOH																					

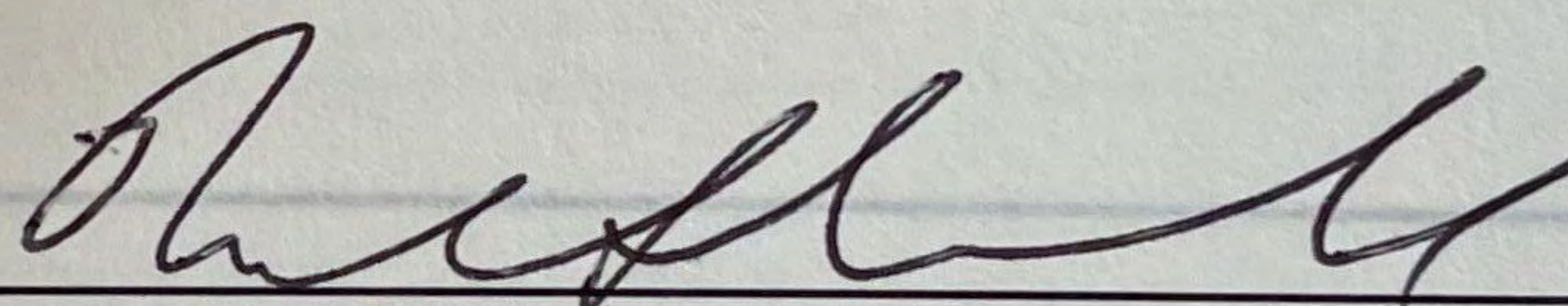
ME 68

### MAINTENANCE RECORD

DATE	TOTAL TIME IN SERVICE		DESCRIPTION OF THE WORK PERFORMED	AUTHORIZED SIGNATURE, CERTIFICATE TYPE & NUMBER
	HOURS	10ths		
19__				

**Aviation Plus LLC**  
9870 W 52<sup>nd</sup> Street  
Kenosha WI 53144  
262-656-1260  
[www.aviationplusllc.com](http://www.aviationplusllc.com)

N52802 6/12/06 Tach 3561  
Replaced gascolator cup seals.

  
Robert Russell 399764317A&P

**WAUKEGAN AVIONICS, INC.**  
 WAUKEGAN ILL. 60087 CRS WOG619K

**TABLE 1**  
SCALE ERROR

ALT	TOL	IND
-1000	20	-995
0	20	6
500	20	511
1000	20	1005
1500	20	1505
2000	30	2005
3000	30	3009
4000	35	4006
6000	40	6013
8000	60	8024
10000	80	10038
12000	90	12027
14000	100	14004
16000	110	15984
18000	120	17951
20000	130	19916
22000	140	0
15000	155	0
30000	180	0
35000	205	0
40000	230	0
45000	255	0
50000	280	0
53000	295	0
55000	305	0

**TABLE 2**  
TEST TOLERANCES

CASE LEAK	TOL	IND
CASE LEAK	100	35
HYSTERISIS		
1st TEST POINT (50% MAX ALT)	75	24
2nd TEST POINT (40% MAX ALT)	75	22
AFTER EFFECT	30	1

**TABLE 4**  
PRESSURE ALT. DIFF.

PRESS	HG IND	TOL	DIFF
28.10	-1727	25	-1720
28.50	-1340	25	-1340
29.00	-863	25	-860
29.50	-392	25	-400
29.92	0	25	0
30.50	531	25	540
30.90	893	25	890
30.99	974	25	970

**TABLE 3**  
FRICTION

ALT	TOL	IND
1000	70	40
2000	70	40
3000	70	50
5000	70	50
10000	80	70
15000	90	80
20000	100	100
25000	120	0
30000	140	0
35000	160	0
40000	180	0
50000	250	0

ALTIMETER TESTED TO 20000 Feet  
 DATE TESTED 8/10/2006  
 AIRCRAFT N NUMBER 52802  
 CUSTOMER JIM HAUSSER  
 SERVICE ORDER # 12736  
 ALTIMETER P/N 5934P-1  
 ALTIMETER S/N 8860  
 ADC/ENCODER P/N SSD120  
 ADC/ENCODER S/N 47178  
 TRANSPONDER MODEL GTX 327  
 TRANSPONDER S/N 83701197

PILOT SYSTEM X  
 COPILOT SYS.  
 STANDBY SYS.

Tested in compliance with FAR Part 43, Appendix E.  
 Authorized Signature Steven Goodwin

I certify that the Altimeter and Static System Tests as required by FAR 91.411, Paragraphs A, B and C have been performed.

The altimeter P/N 5934P-1 S/N 8860

Was tested to 20,000 feet on 8/10/06

The ATC Transponder Tests and Inspections as required by FAR 91.413 IAW FAR 43, appendix F have been performed.

Model GTX 327 S/N 83701197

Signed Steven Goodwin Date 8/10/06

**Waukegan Avionics, Inc. - CRS#WOG619K**

AUTHORIZED SIGNATURE  
 CERTIFICATE TYPE  
 & NUMBER

ME 68

**MAINTENANCE RECORD**

DATE 19__	TOTAL TIME IN SERVICE		DESCRIPTION OF THE WORK PERFORMED	AUTHORIZED SIGNATURE, CERTIFICATE TYPE & NUMBER
	HOURS	10ths		
10/20/06			TACH TIME 3609 HRS; TTAF 3609 HRS; REPLACED FUEL OPENING PLACARDS; REPAIRED LEFT MUFFLER SHROUD; REPLACED AIR FILTER ELEMENT; REPLACED AERO DUCT IN ENGINE COMPARTMENT; REPLACED NOSE ACTUATOR O-RINGS; REPLACED FORWARD BATTLE SEAL; CW ADP 7-20-03 R2 SEATS + RAILS DUE ANNUALLY; TST CHECKED PER FAR 91.207(d); ALL ROUTINE ITEMS CHECKED AS PER INSPECTION SHEETS; I CERTIFY THAT THIS AIRFRAME HAS BEEN INSPECTED IN ACCORDANCE WITH AN ANNUAL INSPECTION AND WAS DETERMINED TO BE IN AIRWORTHY CONDITION. <i>[Signature]</i>	

REG. NO.	N52802	<b>MIDWEST AVTECH INC.</b> <b>I.V. REGIONAL AIRPORT</b> <b>P.O. BOX 451</b> <b>PERU, IL 61354</b>	DATE	04/23/07
MAKE	CESSNA		TACH	3655.0
MODEL	177RG		T.T.	
S/N	177RG1274		SMOH	
REPLACED NOSE TIRE AND TUBE (GOODYEAR 500X5-6PR FLIGHT CUSTOM) THE AIRCRAFT OR ENGINE IDENTIFIED ABOVE WAS REPAIRED AND INSPECTED IAW CURRENT FARs - ONLY THE WORK DESCRIBED ABOVE IS APPROVED FOR RETURN TO SERVICE				

BRYAN G. HARTMAN *[Signature]*

A&P 354729066 IA

REPLACED NOSE TIRE AND TUBE (GOODYEAR 500X5-6PR FLIGHT CUSTOM)

THE AIRCRAFT OR ENGINE IDENTIFIED ABOVE WAS REPAIRED AND INSPECTED IAW CURRENT FARs -  
ONLY THE WORK DESCRIBED ABOVE IS APPROVED FOR RETURN TO SERVICE

BRYAN G. HARTMAN

*Bryan Hartman*

A&P 354729066 IA

### MAINTENANCE RECORD

DATE	TOTAL TIME IN SERVICE		DESCRIPTION OF THE WORK PERFORMED	AUTHORIZED SIGNATURE, CERTIFICATE TYPE & NUMBER
	HOURS	10ths		
10/16/07			TAKEN TIME 3740 HRS; TTAF 3740 HRS; REPLACED BOTH STEEL DRAGS; REPLACED AIRFILTER ELEMENT; REPLACED NOSE DOWN LOCK PAD; REPLACED ALL BRAKE PADS; INSTALLED COBRA MOTOR RUNNING WARNING LIGHT; CW AD 87-20-03 RE SEATS + RAILS; DUE ANNUALLY; REPLACED BELT BATTERY (JAN 2010); BELT CHECKED PER FAR 91.207(d); ALL ROUTINE ITEMS CHECKED AS PER INSPECTION SHEETS; I CERTIFY THAT THIS AIRFRAME HAS BEEN INSPECTED IN ACCORDANCE WITH AN ANNUAL INSPECTION AND WAS DETERMINED TO BE IN AIRWORTHY CONDITION.	
			<i>Bryan Hartman</i> 399764317IA	



## FAA UNIT SERVICE REPORT

RMA NUMBER	UNIT NAME	SERIAL NUMBER	UNIT NUMBER
4718590	GNS430W,Blk,Upgd	97100600	011-01060-40
SERVICE START DATE	SERVICE COMPLETION DATE	RETURNED TO SERVICE BY	
10/17/2007	10/18/2007	1302	

### UNIT DISCREPANCY

WAAS Upgrade

### REPAIR SUMMARY

This "Certifies that the work specified in block 12/13 was carried out in accordance with EASA Part-145 and in respect to that work the component is ready for release to service under EASA Part-145 Approval Number: EASA.145.5534" The work that was performed on this unit was done to meet the requirements of GNS400W/500W Series WAAS Upgrade Procedure, part number 005-00221-72

On the Garmin website "garmin.com", you will be able to download and receive more detailed information on the difference between the Classic GNS units and WAAS GNS units. A manual dedicated for the new WAAS GNS series units titled "What's New with the 400W/500W series" is available through <http://www.garmin.com/support/userManual.jsp>.

For more detailed instructions on the operation of the WAAS GNS 400W/500W series, please review the *Pilot's Guide* for the appropriate units. For your convenience, you will be able to download the *Pilot's Guide* from the *Garmin website*. <http://www.garmin.com/support/userManual.jsp>

In addition to the manuals, you will be able to download the WAAS GNS simulator from the Garmin website as well. Please review the *Trainer User Guide* for detailed operation instructions on the training simulator. To receive additional operational information, download the free WAAS Training Video from Garmin website.

[www.garmin.com](http://www.garmin.com)

If you have any questions, comments, or need any technical assistance on the GNS series units, please contact Garmin product support specialist at 1-800-800-1020 or e-mail us through Garmin website, [www.garmin.com](http://www.garmin.com).

This Certifies that the work specified in block 12/13 was carried out in accordance with EASA Part-145 Approval Number: EASA.145.5534" The work that was performed on this unit was done to meet the requirements of GNS400W/500W Series WAAS Upgrade Procedure, part number 005-00221-72

On the Garmin website "garmin.com", you will be able to download and receive more detailed information on the difference between the Classic GNS units and WAAS GNS units. A manual dedicated for the new WAAS GNS series units titled "What's New with the 400W/500W series" is available through <http://www.garmin.com/support/userManual.jsp>.

For more detailed instructions on the operation of the WAAS GNS 400W500W series, please review the Pilot's Guide for the appropriate units. For your convenience, you will be able to download the Pilot's Guide from the Garmin website. <http://www.garmin.com/support/userManual.jsp>

In addition to the manuals, you will be able to download the WAAS GNS simulator from the Garmin website as well.

Please review the Trainer User Guide for detailed operation instructions on the training simulator.

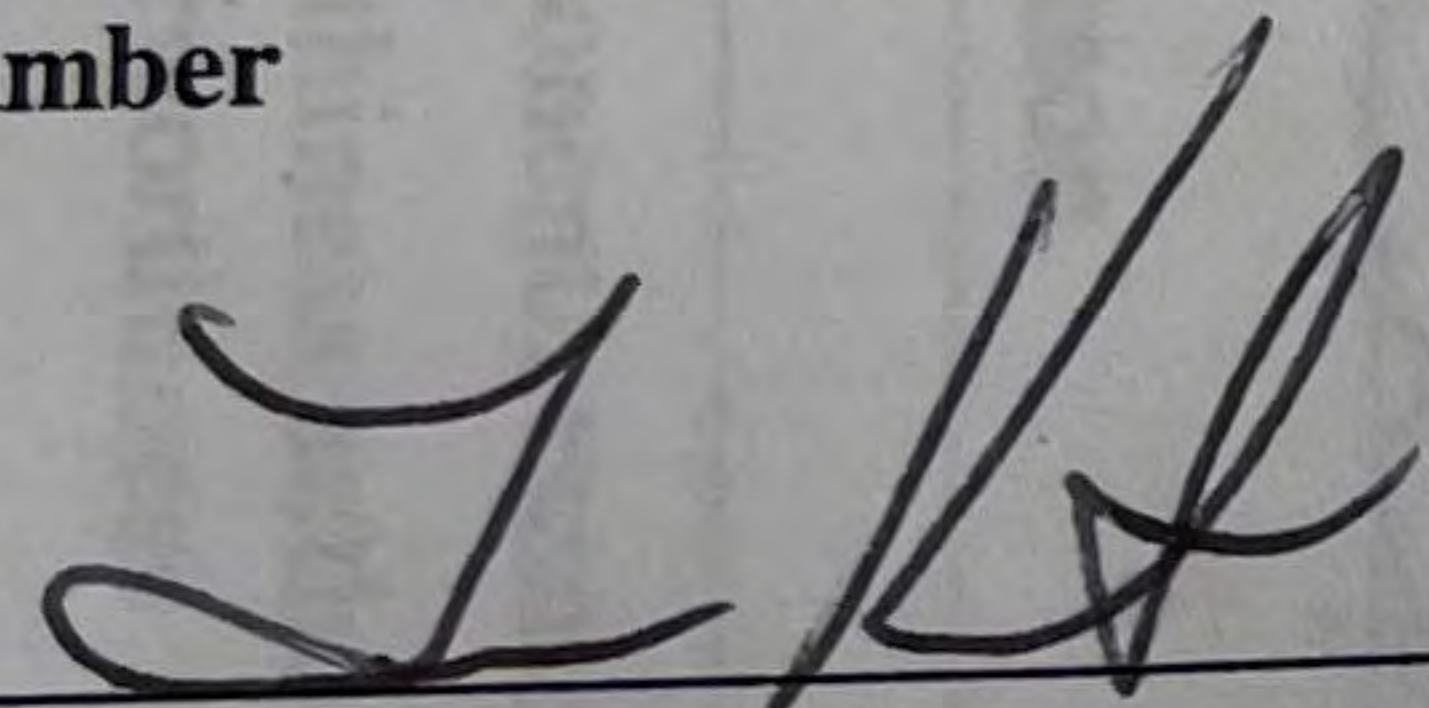
To receive additional operational information, download the free WAAS Training Video from Garmin website.

[www.garmin.com](http://www.garmin.com)

If you have any questions, comments, or need any technical assistance on the GNS series units, please contact Garmin product support specialist at 1-800-800-1020 or e-mail us through Garmin website, [www.garmin.com](http://www.garmin.com).

### FAA Approved Product

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



Tim Knutson  
FAA Certified Repairman

10/18/2007

Date

3159036

Certificate Number

FAA Repair Station Number  
G6XR582Y

### Warranty Information

Garmin will provide a one (1) year warranty on parts and labor supplied with your upgrade, regardless of the age of the unit at the time of upgrade. This will cover only the upgraded portion of the unit.

### MAINTENANCE RECORD

DATE

19\_\_

AVIONICS PLACE 5257 Falcon Rd. Rockford, IL 61109-2917 FQ5R866M  
LOG ID# 780 25-October-2007 WO# 10933  
N52802 S/N 177RG1274 CESSNA 177RG

DESCRIPTION OF THE WORK PERFORMED

Pg 1 / 1

AUTHORIZED SIGNATURE  
CERTIFICATE TYPE  
& NUMBER

REMOVED DME AND REPLACED BAD DISPLAY. REPLACED DME INTO AIRCRAFT. REMOVED GNS-430 FOR WAAS UPGRADE. INSTALLED GNS-430W S/N 97100600. WEIGHT AND BALANCE NEGLIGIBLE.

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

PERTINENT DETAILS OF THE REPAIR ARE ON FILE AT THIS REPAIR STATION UNDER W.O. LISTED ABOVE.

RELEASED BY *Gregory Heuborn*  
AVIONICS PLACE  
FAA APPROVED REPAIR STATION FQ5R866M.

## MAINTENANCE RECORD

AUTHORIZED SIGNATURE,  
CERTIFICATE TYPE  
& NUMBER

THE WORK PERFORMED

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.

AVIONICS PLACE FQ5R866M ROCKFORD IL

PARA (A) STATIC SYSTEM

DATE 2/14/2008

PARA (B) ALTIMETER

PILOTS 5934P-1 S/N N8860

C.P.'s \_\_\_\_\_ S/N \_\_\_\_\_

TESTED TO \_\_\_\_\_ FT. DATE \_\_\_\_\_

PARA (C) INTEGRATED SYSTEM TEST

DATE 2/14/2008 W.O.# 11188

SIGNED BY [Signature]

ATC TRANSPONDER TESTS AND INSPECTIONS AS REQUIRED BY FAR 91.413 iaw FAR 43 APPENDIX "F"

HAVE BEEN PERFORMED:

DATE 2/14/2008

AVIONICS PLACE FQ5R866M ROCKFORD IL

MODEL GTX-327 S/N 83201197

SIGNED BY [Signature]

CUSTOMER NAME:

N NO: N52862

DATE: Feb 14, 2008

W.O. NO: 11188

INSP. BY J. Coats

ALT S/N N8860

MODEL Wm Rd 5934P-1

TABLE I

TABLE II

ALT	TOL	IND	TEST	TOL	IND
-1000	20	-5	CASE LEAK	100	100
0	20	0	HYSTERISIS		
500	20	+5	1ST TEST 50%	75	56
1000	20	0	2ND TEST 40%	75	20
1500	25	+5	AFTER EFFECT	30	5
2000	30	0			

ALT	TOL	IND	TABLE III FRICTION		TABLE IV BARO SCALE				
			ALT TOL	IND	HG	ALT	DIF	TOL	
3000	30	+30	3000	140	30.99	974	5		
4000	35	+35	3000	140	30.99	974	5		
6000	40	+20	1000	70	28.10	-1727	7	25	
8000	60	+5	2000	70	28.50	-1340	10		
10000	80	0	3000	70	29.00	-863	0		
12000	90	0	5000	70	29.50	-392	5		
14000	100	+10	10000	80	29.92	0	0		
16000	110	+75	15000	90	30.50	531	0		
18000	120	+90	20000	100	30.90	893	0		
20000	130	+120	25000	120	30.99	974	5		
22000	140		30000	140					
25000	155		35000	160					
30000	180		40000	180					
35000	205		50000	250					

NEXT IFR  
CERTIFICATION  
DUE BY: 03/01/10

## MAINTENANCE RECORD

DATE	TOTAL TIME IN SERVICE	DESCRIPTION OF THE WORK PERFORMED	AUTHORIZED SIGNATURE, CERTIFICATE TYPE & NUMBER
19__	HOURS   10ths		
		<b>AVIONICS PLACE 5257 Falcon Rd. Rockford, IL 61109-2917 FQ5R866M</b> <b>LOG ID# 862 20-February-2008 WO# 11188</b> <b>N52802 S/N 177RG1274 CESSNA 177RG</b>	Pg 1 / 1
<p>--- DATA FROM W&amp;B # 470 Dated: Feb-13-2008 -----</p> <p>Follow equipment Removed: 1394T100 42964-2000 CA-295B GA-56</p> <p>Follow Equipment Installed: 0106-R2 01260-1-0-28 03975 03976 GA-35</p> <p>New Empty Weight: 1802.77</p> <p style="padding-left: 20px;">New C.G /Arm: 103.53</p> <p style="padding-left: 40px;">New Moment: 186647.14</p> <p>New Useful Load: 997.23</p> <p>See 337 and revised weight and balance.</p> <p>Complied with Garmin Service Bulletin 0740. Updated Main Software to version 3.0 and GPS Software to version 3.0. Revised AFMS has been installed in aircraft.</p> <p>THE AIRCRAFT/COMPONENT IDENTIFIED WAS REPAIRED AND INSPECTED IN ACCORDANCE WITH CURRENT REGULATIONS OF THE FEDERAL AVIATION ADMINISTRATION AND IS APPROVED FOR RETURN TO SERVICE.</p> <p>PERTINENT DETAILS OF THE REPAIR ARE ON FILE AT THIS REPAIR STATION UNDER W.O. LISTED ABOVE.</p> <p>RELEASED BY <u>David Wright</u></p> <p>AVIONICS PLACE</p> <p>FAA APPROVED REPAIR STATION FQ5R866M.</p>			

## MAINTENANCE RECORD

SE  
 rse side was repa  
 gulations and  
 the repair are

TOTAL TIME  
IN SERVICE

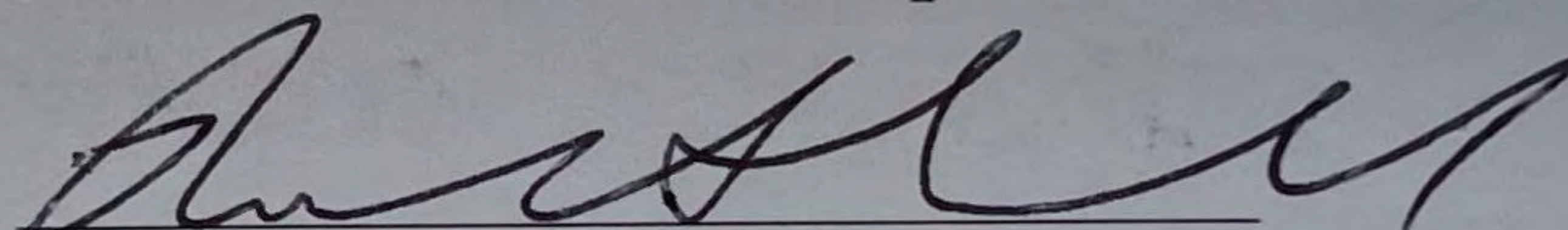
HOURS

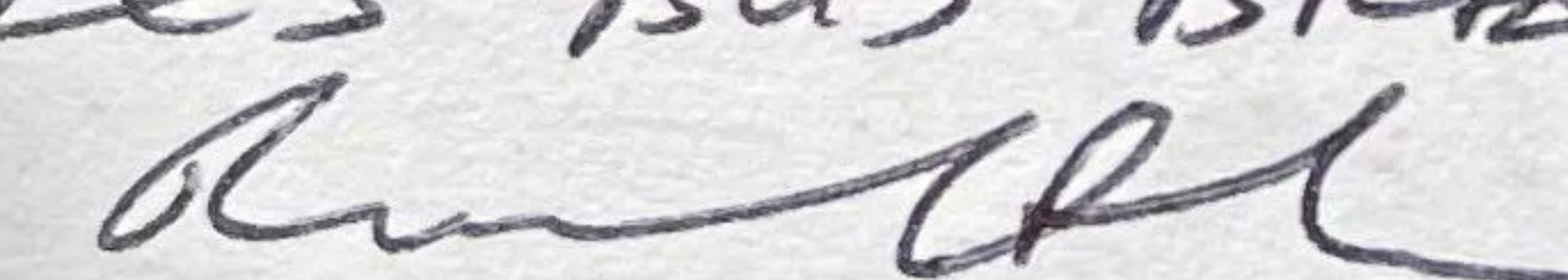
DESCRIPTION **Aviation Plus LLC** FORMED  
 262-656-1260  
 aviationplusllc.com

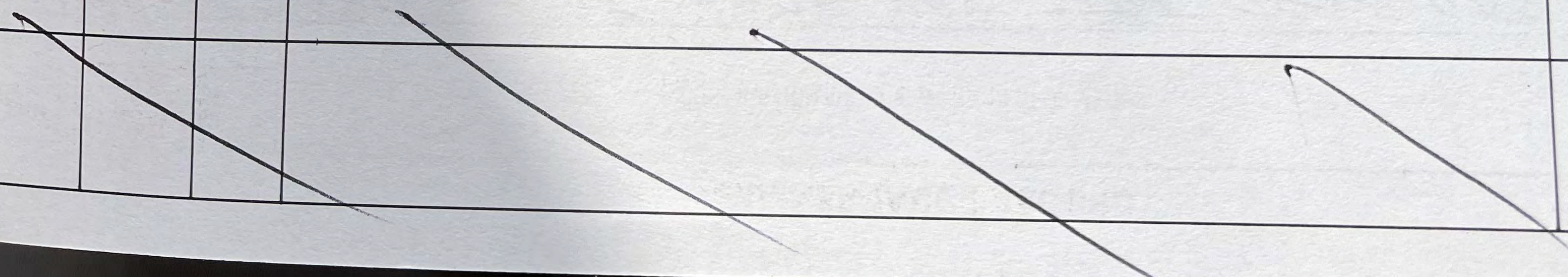
AUTHORIZED SIGNATURE,  
 CERTIFICATE TYPE  
 & NUMBER

**N52802 03/19/2008 Tach 3771**

Replaced Attitude Indicator w/overhauled SigmaTek unit, S/N T62219K. Installed NuLite bezel on Attitude Indicator and wired to dimmer switch. Replaced alternator belt. R&R Propeller to replace crankshaft seal and alternator belt. Installed AeroTech Components Inc. Inline vacuum air filter, P/N CV1J4-C. 337 filed.

  
 Robert Russell 3997643171A

05/15/08 TACH TMR 3778HRS; RAN POWER WIRE TO GPS FROM AVIONICS BUS; INSTALLED ONLENS 1AMP FUSE + HOLDER; INSTALLATION NOTES NOT EXCEEDED AVIONICS BUS BREAKER; ALL WORK DONE IN ACCORDANCE WITH AC 43.13.1B.  3997643171A



89

### MAINTENANCE RECORD

DATE	TOTAL TIME IN SERVICE		DESCRIPTION OF THE WORK PERFORMED	AUTHORIZED SIGNATURE, CERTIFICATE TYPE & NUMBER
	HOURS	10ths		
10/21/08			<p>           TRUCK TEMPS 3820 WRS; TTRK 3820 WRS; REPLACED            AIR FILTER ELEMENT; REPLACED THREE COOL SHOCK MOUNTS            REPOSITIONED FUEL LINES AWAY FROM EXHAUST; SET AUTO-            BRNATOR BELT TENSION; REPLACED NOISE DOOR CROMMET.            REPLACED REWORK AIR INLET DUCT; REPLACED            ONE STAPLE WELD ON LEFT AILERON; REPLACED            O-RINGS ON MAIN GEAR ACTUATOR; REPLACED TWO PERS            OF WIRE FOR ACTUATOR REEL BREAK FROM ACTU-            NATOR; REPLACED WIRE ON THROTTLE WARNING SWITCH;            REPLACED NOSE DOWN LOCK BUMPER STOP; REPLACED RIGHT            GEAR TUNNIE BUMPER; CW AD 87/20/03 RE SEATS + PAIRS            DUE ANNUALLY; CW AD 2008-14-07 ON THEORE LENSES + SUPPORTS            DUE 100 WRS/ANNUALLY; ETC CHECKED PER FAR 91.207;            ALL ROUTINE ITEMS CHECKED AS PER INSPECTION            SHEETS; I CERTIFY THAT THIS AIRCRAFT HAS BEEN            INSPECTED IN ACCORDANCE WITH AN ANNUAL INSPE-            CTION AND WAS DETERMINED TO BE IN AIRWORTHY            CONDITION.         </p>	
				<p> <i>[Signature]</i> 399764317A         </p>

STATE; & CHECK THAT THIS AIRCRAFT WAS USED INSPECTED IN ACCORDANCE WITH AN ANNUAL INSPECTION AND WAS DETERMINED TO BE IN AIRWORTHY CONDITION. *[Signature]* 399764317A

**MAINTENANCE RECORD**

AUTHORIZED SIGNATURE, CERTIFICATE TYPE & NUMBER

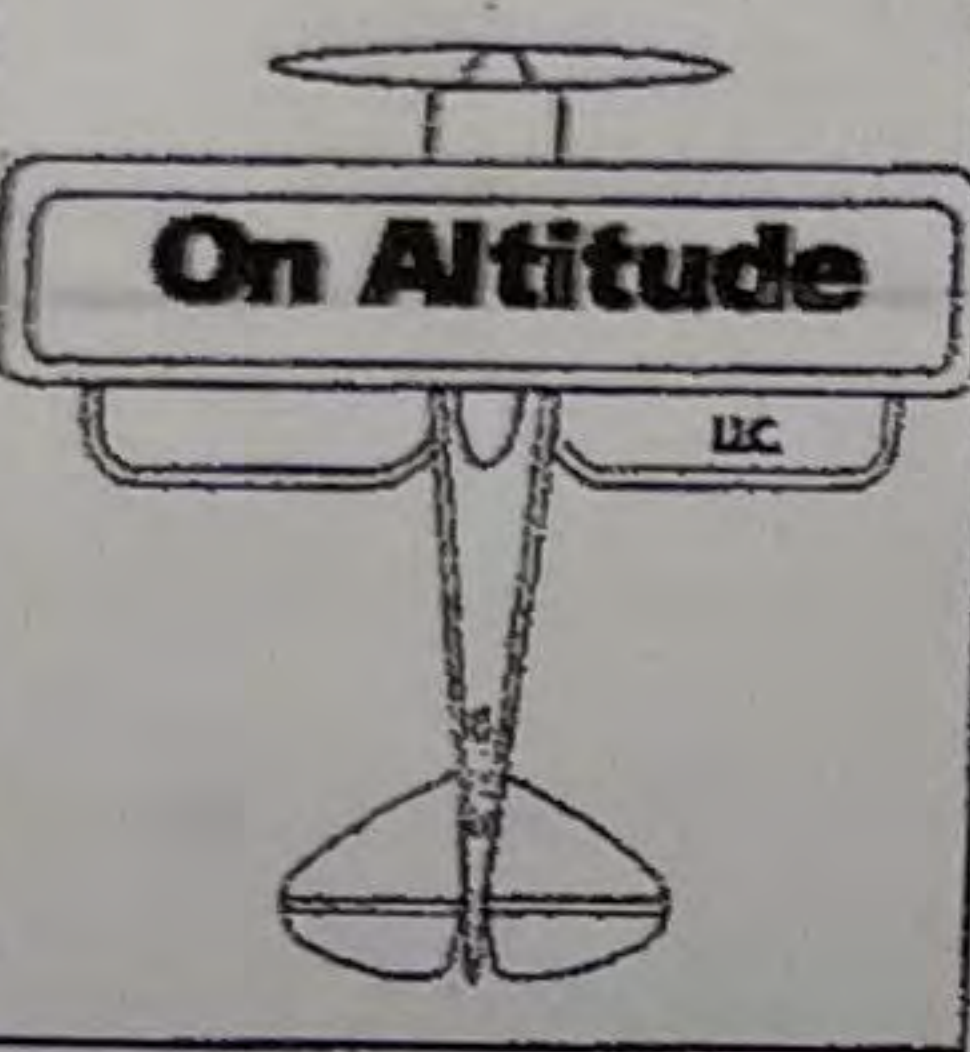
DESCRIPTION

On Altitude LLC - Repair Station OQLR736Y		Date 10/19/09	WO# 1090
N Number N52802		Make CESSNA	Model 177R6
I certify that the <b>Static System checks</b> required by 14CFR FAR 91.411 have been performed this date and found to comply with FAR43 Appendix E, par. a. Signed: <i>[Signature]</i>			
I certify that the <b>ATC Transponder Tests and Inspections</b> required by 14CFR FAR 91.413 have been performed this date and found to comply with Far 43 Appendix E. Signed: <i>[Signature]</i>			
Transponder 1	GARMAN	Serial	83701197
Transponder 2	GTX-327	Serial	
I certify that the <b>Automatic Pressure Altitude Recording System Checks</b> required by 14CFR FAR91.217 and FAR91.411 have been performed this date and found to comply with FAR Appendix E, par. c. Signed: <i>[Signature]</i>			
Encoder 1	TRANSCAL	Serial	47178
Encoder 2	SSD-120	Serial	
I certify that this aircraft/component has been inspected in accordance with current FAA regulations and is approved for return to service. Details of the repair are on file under this work order. Signed: <i>[Signature]</i>			

*[Signature]*

Altimeter Test Data per FAR 91.411 IAW FAR 43 Appendix E Par B.

On Altitude LLC. Repair Station	Work Order # 1090	Date 10/19/09
Tail Number N52802	Position PILOT	
Altimeter Mod/Type UNTESTED 5934P-1	Serial Number L3940	

Table 1			Table 2			
ALT	TOL	IND	TEST	TOL	IND	
-1,000	20	-5	CASE LEAK	+/-100	-20	
0	20	0				
500	20	0	HYSTERISIS TEST			
1,000	20	-5	50% of Max ALT	75	-10	
1,500	25	0	40% of Max ALT	75	-10	
2,000	30	0	AFTER EFFECT	30	+5	
3,000	30	+5				
4,000	35	-5				
TABLE 3 FRICTION			TABLE 4 BARO SCALE			
ALT	TOL	IND	HG	ALT	DIFF	TOL
10 000	80	-40	28.10	1,000	-3	±25
12 000	90	-40	28.50	2,000	-5	
14 000	100	-45	29.00	3,000	-8	
16 000	110	-40	29.50	5,000	-7	
18 000	120	-60	29.92	10,000	0	
20 000	130	-40	30.50	15,000	+9	
22,000	140		30.90	20,000	+2	
25,000	155		30.99	25,000	+11	
30,000	180			30,000		
35,000	205			35,000		
40,000	230			40,000		
45,000	255			50,000		
50,000	280					

Next Altimeter Certification

Due 11/01/2011

This Altimeter in reference to the work performed is returned to service.

On Altitude LLC. Repair Station OQLR736Y	Date 10/19/09
Signed <i>[Signature]</i>	3330291

Other regulations... Return to service... in accordance with Title 14, Code of Federal Regulations, part 43 and... accomplished in Block 13, the work identified in Block 12 and... specified in Block 13, the work identified in Block 12 and... in accordance with Title 14, Code of Federal Regulations, part 43 and... approved for return to service.

88 E

MAINTENANCE RECORD

DATE	TOTAL TIME IN SERVICE		DESCRIPTION OF THE WORK PERFORMED	AUTHORIZED SIGNATURE, CERTIFICATE TYPE & NUMBER
	HOURS	10ths		
10/20/09			TACH TIME 3862 HRS; TTAF 3862 HRS; REPLACED ALTENMETER + SYSTEM CHECKS BY ON ALTITUDE LL; REPLACED AIR FILTER ELEMENT; REPLACED LOWER LORO MOUNT TO ENCLOSE HALVES; — REPLACED RT BELL FUEL DRAIN; REPLACED ONE COWL SHOCK MOUNT; ADJUSTED BLEEDATOR CABLE TENSIONS; REPLACED SYSTEM BATTERY; REPLACED BLT BATTERY (01/2012); TEST CHECKED AS PER PAR 91. 20 TD; CW AD 87-20-03 R2 SEATS + RAILS, DUE ANNUALLY; CW AD 2008-14-07 INTRATOR LINES + SUPPORTS, DUE 100 HRS ANNUALLY; CW AD 2008-26-10 CHECK OF STAFFE VALVE, DVA PART #; All ROUTINE ITEMS CHECKED AS PER INSPECTION SHEETS; I CERTIFY THAT THIS AIRFRAME HAS BEEN INSPECTED IN ACCORDANCE WITH AN ANNUAL INSPECTION AND WAS DETERMINED TO BE IN AIRWORTHY CONDITION.	
				<i>[Signature]</i> 34118802A

### SERVICE BULLETIN COMPLIANCE RECORD

S.B. NUMBER	DATE OF COMPLIANCE	TOTAL TIME IN SERVICE		TYPE S.B. (X)		NEXT COMPLIANCE DUE-DATE/ HOURS/OTHER	AUTHORIZED SIGNATURE, CERTIFICATE TYPE & NUMBER	REMARKS
		AIRFRAME	COMPONENT	ONE-TIME	RECURRING			
(FLAP ROLLERS - INSTALLED) SEB 95-34	APR 03, 96	2589	2589	X		N/A	Thomas E. Deherty	REP 767142

**Aviation Plus LLC**  
 262-656-1260  
[aviationplusllc@aol.com](mailto:aviationplusllc@aol.com)

03/12/10 N52802 Tach 3880.4  
 Replaced pitot switch.  
 HEAT

*Mark Stein*  
 Mark Stein 2694878A&P

## SERVICE BULLETIN COMPLIANCE RECORD

S.B. NUMBER	DATE OF COMPLIANCE	TOTAL TIME IN SERVICE		TYPE S.B. (X)		NEXT COMPLIANCE DUE-DATE/ <small>HOURS/OTHER</small>	AUTHORIZED SIGNATURE, CERTIFICATE TYPE & NUMBER	REMARKS
		<small>AIRFRAME</small>	<small>COMPONENT</small>	<small>ONE-TIME</small>	<small>RECURRING</small>			
AVIONICS PLACE 5257 Falcon Rd. Rockford, IL 61109-2917 FQ5R866M LOG ID# 1325 24-June-2010 WO# 13101 N52802 S/N 177RG1274 CESSNA 177RG								
Pg 1 / 1								
Complied with Garmin Service Bulletin 0918 Rev.A for GNS-430w. Updated Main Software to v3.30 and verified GPS Software at v3.2. New AFMS installed in aircraft.								
THE AIRCRAFT/COMPONENT IDENTIFIED WAS REPAIRED AND INSPECTED IN ACCORDANCE WITH CURRENT REGULATIONS OF THE FEDERAL AVIATION ADMINISTRATION AND IS APPROVED FOR RETURN TO SERVICE.								
PERTINENT DETAILS OF THE REPAIR ARE ON FILE AT THIS REPAIR STATION UNDER W.O. LISTED ABOVE.								
RELEASED BY								
AVIONICS PLACE FAA APPROVED REPAIR STATION FQ5R866M								

### Aviation Plus LLC

262-656-1260

[aviationplusllc.com](http://aviationplusllc.com)

**10/26/10 N52802 Tach 3949 TTAF 3949**

Replaced air filter element. Replaced o-rings in hydraulic pump pressure switch. Replaced 1 cowl shock mount. ELT checked per FAR91.207(d). C/W AD87-20-03R2, seats & rails, visual inspection, due annually. C/W AD08-14-07, injector lines & supports, visual inspection, due 100 hrs/annually. All routine items checked per inspection sheets. I certify this airframe was inspected in accordance with an annual inspection and was determined to be in an airworthy condition.

Robert Russell 3411885IA



Re

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

2. **AUTHORIZED RELEASE CERTIFICATE**  
FAA FORM 8130-3, AIRWORTHINESS APPROVAL TAG

3. Form Tracking Number:  
**2676180**

4. Organization Name and Address:

**Cessna Aircraft Company (PC4)**  
**Cessna Parts Distribution Dept. 702**  
**5800 E Pawnee, Wichita, KS 67218**

5. Work Order/Contract/Invoice Number:  
**998067**

6. Item:	7. Description:	8. Part Number:	9. Eligibility: *	10. Quantity:	11. Serial/Batch Number:	12. Status/Work:
10	BELT V	S1597-1-37.5	N/A	1	2Q09	New

13. Remarks:

**AIRWORTHINESS APPROVAL - PARTS. THIS FORM IS NOT AN EXPORT APPROVAL.**

**PO# 35383**

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:

*Theresa A Mavec*

16. Approval/Authorization No.:

**ODA-100129-CE**

20. Authorized Signature:

21. Approval/Certificate No.:

17. Name (Typed or Printed):

**THERESA A. MAVEC**

18. Date (m/d/y):

**MAR/08/2010**

22. Name (Typed or Printed):

23. Date (m/d/y):

**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.

ITEM: 10  
ORDER: 2676180

2676180

10

PN: S1597-1-37.5  
QTY: 1  
U/M: EA

DESC: BELT V

QTY: 1  
U/M: EA

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# SERVICE BULLETIN COMPLIANCE RECORD

Altimeter Test Data per FAR 91.411 IAW FAR 43 Appendix E Par B

On Altitude LLC. Repair Station Work Order # 1206 Date 10/10/2011  
 Tail Number N52802 Position Pilot  
 Altimeter Mod/Type UNTESTED-7 Serial Number L3940

Table 1			Table 2		
ALT	TOL	IND	TEST	TOL	IND
-1,000	20	0	CASE LEAK	+/-100	-4
0	20	0			
500	20	0	HYSTERISIS TEST		
1,000	20	+5	50% of Max ALT	75	+10
1,500	25	0	40% of Max ALT	75	0
2,000	30	+5	AFTER EFFECT	30	+30
3,000	30	+5			

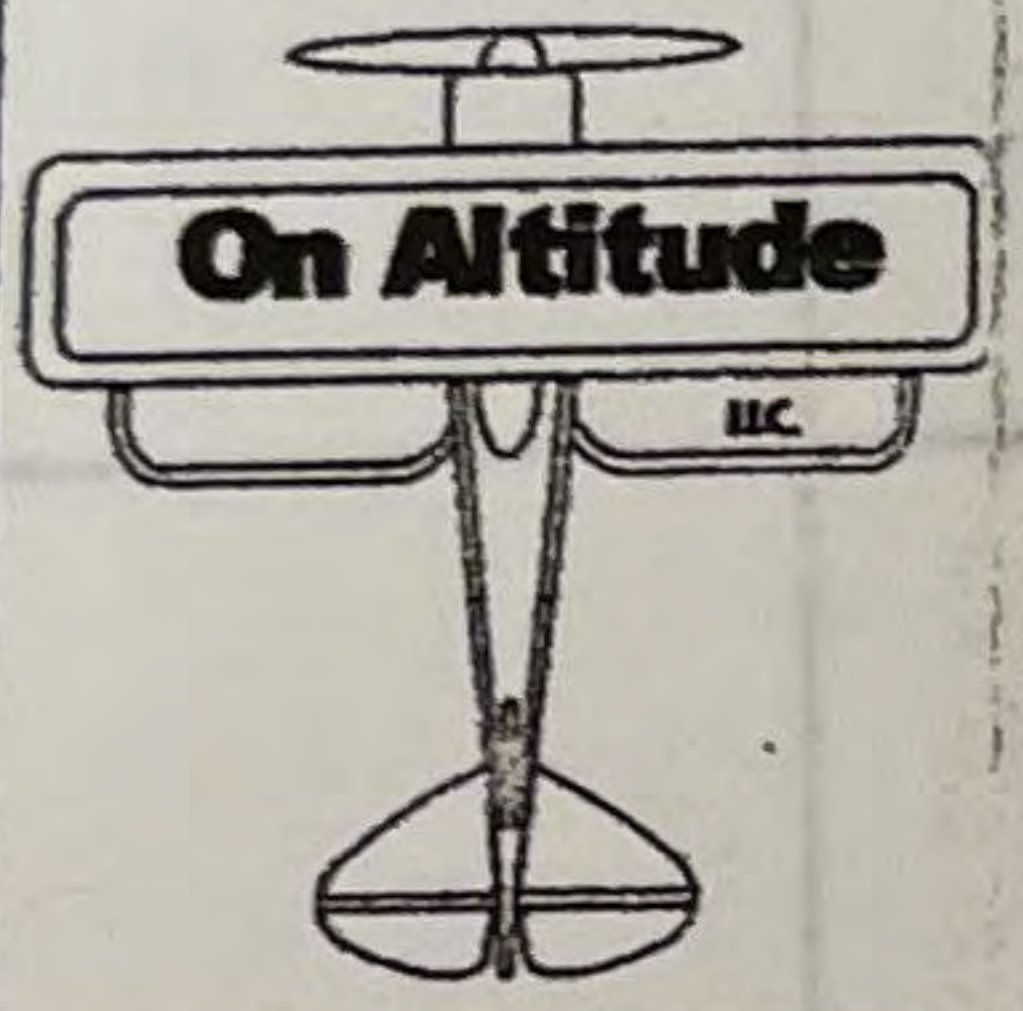


TABLE 3			TABLE 4			
FRICTION			BARO SCALE			
ALT	TOL	IND	HG	ALT	DIFF	TOL
8,000	60	-25	1,000	70	-30	±25
10,000	80	-20	2,000	70	-30	
12,000	90	+15	3,000	70	-30	
14,000	100	+5	5,000	70	-30	
16,000	110	+5	10,000	80	-50	
18,000	120	+5	15,000	90	-50	
20,000	130	+20	20,000	100	-50	
22,000	140		25,000	120		
25,000	155		30,000	140		
30,000	180		35,000	160		
35,000	205		40,000	180		
40,000	230		45,000	250		
45,000	255		50,000	250		
50,000	280					

Next Altimeter Certification  
Due 10/01/2013

This Altimeter in reference to the work performed is returned to service.

On Altitude LLC. Repair Station OQLR736Y Date 10/10/11  
 Signed [Signature] 3330291

NEXT COMPLIANCE DATE

AUTHORIZED SIGNATURE, CERTIFICATE TYPE

REMARKS

On Altitude LLC - Repair Station OQLR736Y Date 10/10/2011 WO# 1206  
 N Number N52802 Make CROSSIA Model 177RG

I certify that the **Static System checks** required by 14CFR FAR 91.411 have been performed this date and found to comply with FAR43 Appendix E, par. a.  
 Signed [Signature]

I certify that the **ATC Transponder Tests and Inspections** required by 14CFR FAR 91.413 have been performed this date and found to comply with Far 43 Appendix F.  
 Signed [Signature]

Transponder 1 CADMEW Serial 83701197  
 Transponder 2 BTV-327 Serial —

I certify that the **Automatic Pressure Altitude Recording System Checks** required by 14CFR FAR91.217 and FAR91.411 have been performed this date and found to comply with FAR Appendix E, par. c.  
 Signed [Signature]

Encoder 1 TRANSCEP Serial 47178  
 Encoder 2 SSD-120 Serial —

I certify that this aircraft/component has been inspected in accordance with current FAA regulations and is approved for return to service. Details of the repair are on file under this work order.  
 Signed [Signature]

ORD

AUTHORIZED SIGNATURE

WO# 12011  
1/10/2011  
BSSA  
by 14CFR FAR 91.411  
ply with FAR43 Appendix

Inspections required by  
and found to comply

83701197  
Recording System Check  
re been performed this  
U. C.

47178  
cited in accordance with  
service. Details of the

AUTHORIZED SIGNATURE  
CERTIFICATE TYPE  
& NUMBER

replaced tail nav bulb.  
D11-10-09, seats &  
pection, due 100  
rdance with an annu

Robert Russell 3411885 IA

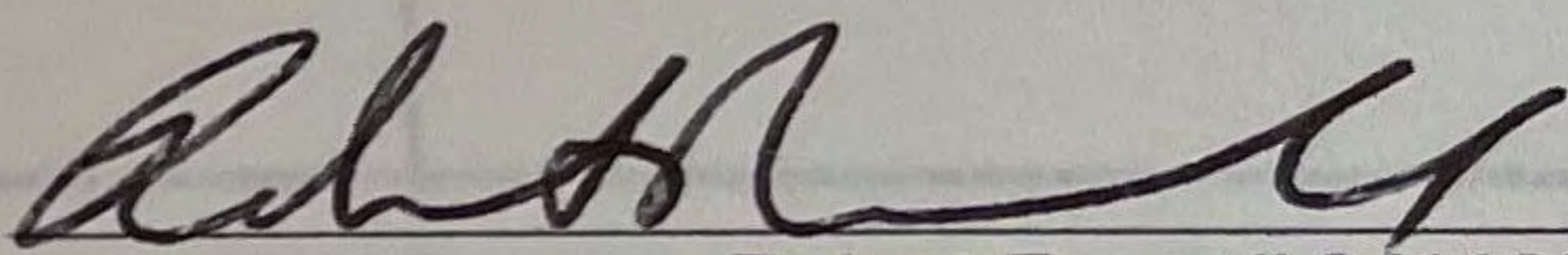
1. Approving National Aviation Authority/Country: <b>USA</b>		2. <b>AUTHORIZED RELEASE CERTIFICATE</b> FAA Form 8130-3, Airworthiness Approval Tag			3. Form Tracking Number: <b>19276</b>		
4. Organization Name & Address: Milwaukee Avionics and Instruments LLC				6130 South Jasper Avenue Milwaukee, WI 53207 414.769.0602		5. Work Order/Contract/ Invoice/Number: <b>19276</b>	
6. Item:	7. Description:	8. Part Number:	9. Eligibility *	10. Quantity:	11. Serial Batch #:	12. Status/Work:	
1	Directional gyro	1U262-006-45	N/A	1	T708450	Overhaul	
13. Remarks: Overhauled on WO# 19276 Customer PO # Verbal							
14. Certifies the items identified above were manufactured in conformity to: <input type="checkbox"/> Approved design data and are in a condition for safe operation. <input type="checkbox"/> Non-approved design data specified in block 13.				19. <input checked="" type="checkbox"/> 14 CFR 43.9 Return to service <input type="checkbox"/> Other regulations 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 #:		20. Authorized Signature:		21. Approval/Authorization #:	
						M7IR960J	
17. Name (Typed or Printed):		18. Date (m-d-y):		22. Name (Typed or Printed):		23. Date (m-d-y):	
				Jeffrey R. Majchrzak		12/16/2011	

User/ Installer Responsibilities

It is important 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 issued in accordance with the national regulations by the user/installer before the aircraft may be flown.

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

## SERVICE BULLETIN COMPLIANCE RECORD

DATE OF COMPLIANCE	AIRFRAME	COMPONENT	TOTAL TIME IN SERVICE	ONE-TIME	NEXT COMPLIANCE DUE-DATE/HOURS/OTHER	AUTHORIZED SIGNATURE, CERTIFICATE TYPE & NUMBER	REMARKS
04/19/2012	N52802	Tach 4094 TTAF 4094				 Robert Russell 3411885 IA	Replaced air filter element. Replaced nose downlock pad. Replaced worn hardware in nose gear door. Replaced tail nav bulb. Installed NuLite ring on DG. Replaced ELT battery, due 6/14. ELT checked per FAR91.207(d). C/W AD11-10-09, seats & rails, visual & dimensional check, due 100 hrs/annually. C/W AD11-26-04, injector lines & supports, visual inspection, due 100 hrs/annually. All routine items checked per inspection sheets. I certify this airframe was inspected in accordance with an annual inspection and was determined to be in an airworthy condition.

**Aviation Plus LLC**  
 262-656-1260  
[aviationplusllc.com](http://aviationplusllc.com)

NU

check availability  
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 Installer Re  
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On Altitude LLC - Repair Station OQLR736Y		Date 04/16/2013	WO# 1283
N Number N52802		Make CESSNA	Model 177RG
I certify that the <b>Static System checks</b> required by 14CFR FAR 91.411 have been performed this date and found to comply with FAR43 Appendix E, par. a. Signed: <i>[Signature]</i>			
I certify that the <b>ATC Transponder Tests and Inspections</b> required by 14CFR FAR 91.413 have been performed this date and found to comply with Far 43 Appendix F. Signed: <i>[Signature]</i>			
Transponder 1	GARMIN	Serial	83701197
Transponder 2	GT-327	Serial	
I certify that the <b>Automatic Pressure Altitude Recording System Checks</b> required by 14CFR FAR91.217 and FAR91.411 have been performed this date and found to comply with FAR Appendix E, par. c. Signed: <i>[Signature]</i>			
Encoder 1	TRANSAL	Serial	47178
Encoder 2	SSO-120	Serial	
I certify that this aircraft/component has been inspected in accordance with current FAA regulations and is approved for return to service. Details of the repair are on file under this work order. Signed: <i>[Signature]</i>			

Altimeter Test Data per FAR 91.411 IAW FAR 43 Appendix E Par B		Work Order #	1283	Date	04/16/2013
On Altitude LLC Repair Station		Tail Number	N52802	Position	P2L07
Altimeter Mod/Type		Altimeter	UN24A 225	Serial Number	3A266
		Mod/Type	5934PA-1		

Table 1			Table 2		
ALT	TOL	IND	TEST	TOL	IND
-1,000	20	+5	CASE LEAK	+/-100	-54
0	20	+5	HYSTERISIS TEST		
500	20	0	50% of Max ALT	75	440
1,000	20	0	40% of Max ALT	75	425
1,500	25	0	AFTER EFFECT	30	45
2,000	30	-5			
3,000	30	-5			
4,000	35	-5			
6,000	40	-5			

TABLE 3			TABLE 4		
FRICTION			BARO SCALE		
ALT	TOL	IND	HG	ALT	DIFF
1,000	70	-30	28.10	-1727	48
2,000	70	-30	28.50	-1340	-5
3,000	70	-30	29.00	-863	-3
5,000	70	-30	29.50	-392	43
10,000	80	-30	29.92	0	0
15,000	90	-30	30.50	531	-6
20,000	100	-50	30.90	893	-8
22,000	140		30.99	974	-9
25,000	155		Next Altimeter Certification		
30,000	180		Due 05/01/2015		
35,000	205				
40,000	230				
45,000	255				
50,000	280				

This Altimeter in reference to the work performed is returned to service.

On Altitude LLC Repair Station OQLR736Y Date 04/16/13  
Signed: *[Signature]* 3330291

Aviation Plus LLC  
262-656-1260  
Aviationplusllc.com

4/16/2013 N52802 Tach 4132.7 TTAf 4132.7  
Replaced air filter element. Replaced o-rings in hydraulic gear selector. Replaced right aft nose gear door outboard hinge. Shimmed torque links for proper strut extension. ELT checked per FAR91.207(d). C/W AD11-10-09, seats & rails, visual & dimensional check, due 100 hrs/annually. C/W AD11-26-04, injector lines & supports, visual inspection, due 100 hrs. All routine items checked per inspection sheets. I certify this airframe was inspected in accordance with an annual inspection and was determined to be in an airworthy condition.

*[Signature]*  
Robert Russell 34118851A

gear selector. Replaced right aft nose gear door outboard  
 ELT checked per FAR91.207(d). C/W AD11-10-09, seats &  
 C/W AD11-26-04, injector lines & supports, visual  
 checked per inspection sheets. I certify this airframe was inspected in  
 as determined to be in an airworthy condition.

*Robert Russell*  
 Robert Russell 34118851A

Le6 *Checked* / *TRAC 415027* *TRAC 415027*  
**AIRWORTHINESS DIRECTIVE COMPLIANCE RECORD**

A.D. NUMBER AND AMENDMENT NO.	METHOD OF COMPLIANCE	DATE OF COMPLIANCE	TOTAL TIME IN SERVICE		TYPE A.D. (X)		NEXT COMPLIANCE DUE-DATE/HOURS/OTHER	AUTHORIZED SIGNATURE, CERTIFICATE TYPE & NUMBER	SUBJECT REMARKS
			AIRFRAME	COMPONENT	ONE-TIME	RE-CURRING			
70-24-04	N/A								FUEL SHUT OFF VALVE
71-01-03	N/A								CRACKS STAB ATTACH
72-03-03 R3	N/A S/N								FLAP JACK SCREW
74-16-06	N/A S/N								OIL PRESSURE GAGE WUB
75-07-02	N/A S/N								AIR FILTER SEAL
76-04-03	N/A S/N								ARC PA500A ACTUATOR
76-07-12	OPS CHECK	AUG 6 91	2259			X		T.E. Doherty AEP 767142	BENDIX MAG SW
76-14-08	N/A S/N								TRIM TAB ACTUATOR
76-21-06	N/A S/N								LOSS OF ENGINE OIL
77-12-08		7-1-81				X			EXTERNAL GROUND POWER ELECTRICAL SYSTEM
79-08-03	N/A S/N								FUEL TANK VENTING
79-10-14 R1	N/A								CONTAMINATED FUEL
86-19-11	QUICK DRAINS INSTALLED		1468			X		T.E. Doherty AEP 767142	ENG CONTROLS
86-24-07	CASTELLATED NUT AND COTTER PIN	MAY 27-87	1563			X		T.E. Doherty AEP 767142	

N/A; NOT APPLICABLE      S/N, SERIAL NUMBER      C/W COMPLIED WITH





