



AVIONICS MAINTENANCE RECORDS

(including transponder biennial checks)

Log No. _____

Aircraft Registration No. N550GR

Aircraft Manufacturer The Lancair Co.

Model LC40-550FG

Serial No. 40015

EQUIPMENT LISTING

List all installed avionics, autopilot and flight director equipment.

Mfg.	Model	Serial No.
1. <u>UPS</u>	<u>GX50</u>	<u>6030619 - V-3.2</u>
2. <u>SEE AIRCRAFT EQUIPMENT LIST</u>		
3.		
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AEROTECH PUBLICATIONS INC.
PO BOX 1359 / SOUTHOLD, NY 11971-0965
(631) 765-9376
1-800-235-6444
FAX: (631) 765-9359

DATE	AIRFRAME TIME IN SERVICE	AVIONICS TIME IN SERVICE
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PIEDMONT HAWTHORNE
 1005 A Sycolin Road
 Leesburg Municipal Airport Leesburg
 Tel (703) 771-0188 FAX (703) 779-1111

MAINTENANCE REQUEST
 COMPONENT: SYS-55
 PART/MODEL NO. 9113
 Overhaul Repair New
 The aircraft is to be returned to service in accordance with the applicable Federal Aviation Regulations and is approved for return to service. Details of the check are on file at this agency under this work order number.

SENT STEC SYSTEM 55 AUTOPILOT REPAIR. RECEIVED AND REINSTALLED. 2208 N/G. REMOVED PLACARD AND MANUFACTURERS INSTRUCTIONS AND APPROVED FOR RETURN TO SERVICE. PERTINENT DETAILS OF THE CHECK ARE ON FILE AT THIS AGENCY UNDER THIS WORK ORDER NUMBER.

SIGNED [Signature]

9/7/01	0022.5	-	3.
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ALTIMETER CALIBRATION RECORD
 FAR 43 Appendix E
 CRS #YBJR768L

Customer George Smith W.O. No. A001884
 Max. Calib. Alt. 20,000 ft S/N A3420 P/N 5934PD-3 MFG. United



1005 A Sycolin Road
 Leesburg Municipal Airport
 Tel (703) 771-0188 FAX (703) 779-1111

TESTED THE ALTIMETER SYSTEM TO 20K FT COMPLY WITH FAR PART 43

- ALTIMETER 1:
- ALTIMETER 2:
- TRANSPONDER 1:
- TRANSPONDER 2:
- ENCODER 1:
- ENCODER 2:

SIGNED [Signature]

Test Point	Scale Error ±	Encoder Error ±	Friction Test	Hyst. 275' 60% 40%	Barom. Set Point	Scale Equiv.	Error (±25') Inst. Read
-1000	20 +20	-1000			28.10	-1727	-1720
0	20 +10	0			28.50	-1340	-1340
500	20 +5	500			28.90	-883	-860
1000	20 +10	1000	70	0	28.50	-382	-395
1500	25 -5	1500	70	0	29.92	0	0
2000	30 +10	2000	70	+10	30.50	531	525
3000	30 +10	3000	70	0	30.90	893	895
4000	35 0	4000			30.99	974	970
5000	-	5000	70	+10			
6000	40. +5	6000					
8000	60 -10	8000			8040		
10000	80 -10	10000	80	+20	100030		
12000	90 +10	12000					
14000	100 -10	14000					
15000	-	15000	90	+10			
16000	110 +20	16000					
18000	120 +30	18000					
20000	130 +70	20000	100	+40			
22000	140						
25000	155		120				
30000	180		140				
35000	205		160				
40000	230		180				
45000	255						
50000	280		250				

After Effect ± 30' -15 ft
 Case Leak: 100 FL/Min @ 18,000 FL
 Inst. Change: 30 ft/min
 Note: Hysteresis Test Points
 Max. Cal. Alt. 60% 40%
 [20K] [10K] [0M]
 25K 12K 10K
 30K 15K 12K
 35K 18K 14K
 40K 20K 20K

WORK REQUESTED: CHECK CAL. REP. CHANGEDIALS

TESTED IN COMPLIANCE WITH F.A.R. 43 App. E.
 MAINTENANCE RELEASE SUPPLIED WITH INSTRUMENT

REMARKS: Instrument calibration checked to 50,000 ft Max. Alt. Agonal Mercury Barometer Master Altimeter

Date: 7-9-03 Inspector: [Signature]

Piedmont Hawthorne Aviation
 Leesburg Municipal Airport
 1005 Sycolin Road
 Leesburg, Virginia 20175

(703) 771-0188 Phone
 (703) 771-1079 Fax
 ambach@crh.com

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DATE	AIRFRAME TIME IN SERVICE	AVIONICS TIME IN SERVICE	DESCRIPTION OF WORK PERFORMED— SIGNATURE & CERTIFICATE NO. OF PERSON PERFORMING WORK
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1005 A Sycolla Road
 Leesburg Municipal Airport Leesburg, VA 20175
 Tel (703) 771-0188 FAX (703) 779-0436

DATE: 9/15/04
 R/N: NS50GR
 MODEL: 300
 S/N: 40015
 HOBBS: 0110.5
 W/O: A002477

SENT STEC SYSTEM 55 AUTOPILOT COMPUTER P/N 33-0T-45 S/N 2208 N/G TO MANUFACTURER FOR REPAIR. RECEIVED AND REINSTALLED REPAIRED SYSTEM 55 AUTOPILOT COMPUTER P/N 33-0T-45 S/N 2208 N/G. RAMP CHECKED IN ACCORDANCE WITH MANUFACTURERS INSTRUCTIONS AND WITH CURRENT FEDERAL AVIATION REGULATIONS AND IS APPROVED FOR RETURN TO SERVICE. PERTINENT DETAILS OF THE CHECK ARE ON FILE AT THIS AGENCY UNDER THIS WORK ORDER NUMBER.

SIGNED Keat A Daley AIP2271100682A

MAINTENANCE RELEASE

COMPONENT: 55R SERIAL NO. 2208N/G
 PART MODEL NO. 01192-33-0T-45
 Repair Inspects New
 I hereby certify that the above was overhauled, repaired, functional
 and returned to service in accordance with current Federal
 Aviation Regulations and applicable FAA Form 8030-10 to service
 Bulletin 2004-13-20.
 Signature: _____

Piedmont-Hawthorne 779-0436

SOUTHEAST AERO SERVICES, INC.

4900 U.S. 1 North

St. Augustine, Florida 32095

FAA Cert. Repair Station UV4R584M

Lancair Columbia 300 s/n:40015 Hobbs:120.5 2/16/2005 w/o#11131

Upgraded GX-50 software to Version 3.5 with reference Service Bulletin 561-4002-001 dated April 19,2004 to comply with AD#2004-13-20.

Kevin F. Merlie
 Inspector- Kevin F. Merlie

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

St Augustine, FL.

Phone (904) 824-6230 / Fax (904) 824-4509

Lancair 300

s/n: 40-015

N550GR

3-2-05 Hobbs-118.5hrs. AFTT-118.5hrs. Removed Auto-pilot system and sent components to S-Tec Corp. for repair (see RPO dated 2-22-05). Components reinstalled. Auto-pilot computer will not tray properly. Removed tray assembly, repositioned and reinstalled. Computer reinstalled and system opps checked normal. All work performed in accordance with latest revision Lancair Maintenance Manual.

[Signature]
Bryan M Wood A&P254396757

Reg N550GR

Model LC40-550FG S/N 40015

WO# A-1704

Date 09/27/2005

HM 168.9

TT

TSOH

Removed Avrotec FMP300-100 s/n 0111 MFD. Installed 2 MX 20-502 MFD's s/n 26002079 and s/n 26002023 in accordance with Columbia service letter SL-05-016. System check OK per Garmin manual. The weight and balance was recomputed and the Equipment list was revised. The Aircraft, Airframe, Aircraft Engine, Propeller, or Appliance identified above was repaired and inspected in accordance with current Federal Aviation Regulations and is approved for return to service. Pertinent details of this repair are on file at this Repair Station. END

APPROVED BY: *[Signature]*

INSPECTOR FOR

PIEDMONT HAWTHORNE AVIATION, L.L.C., GREENSBORO, NC

FAA REPAIR STATION # PA15208A

Reg N550GR

Model LC40-550FG

S/N 40015

WO# M001570

Date 09/27/2005

HM 168.9

TT

TSOH

Repaired static system leak. Performed Pitot and Static system leak check per FAR regulations. The Aircraft, Airframe, Aircraft Engine, Propeller, or Appliance identified above was repaired and inspected in accordance with current Federal Aviation Regulations and is approved for return to service. END

[Signature] A&P 2081114

PIEDMONT HAWTHORNE AVIATION, L.L.C., GREENSBORO, NC

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AERO INDUSTRIES, INC

CRS BIER466C
 EXECUTIVE TERMINAL
 5690 CLARKSON ROAD
 RICHMOND INTERNATIONAL AIRPORT, VA 23250
 ALTIMETER CORRECTION CARD

DATE	AIRFRAME TIME IN SERVICE	AVIONICS TIME IN SERVICE	DESCRIPTION SIGNATURE & CERTIFICATE
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AERO INDUSTRIES, INC
 5690 CLARKSON ROAD
 RICHMOND INTERNATIONAL AIRPORT
 VIRGINIA, 23250-2411
 CRS BIER466C

ENTER IN: AIRCRAFT RECORDS

ATC TDR	470-6090-100	6030103
STATIC SYS	20,000	
ALTIMETER	5934PD-3	20,000
	414201	
ENCODER	20130 XX AL 466C	20,000
	SRA-5911	

REFERENCE ALTITUDE IN	ALTIMETER READS	REFERENCE ALTITUDE IN	ALTIMETER READS
-1000	-990	14000	14,015
0	+20	16000	16,040
500	515	18000	18,060
1000	1020	20000	20,090
1500	1,520	22000	
2000	2,025	25000	
3000	3,030	30000	
4000	4,030	35000	
6000	6,025	40000	
8000	8,020	45000	
10000	10,015	50000	
12000	12,015		

ALT P/N 5934PD-3 DATE 12-20-05
 ALT S/N 414201 WO # 46031

THE ALTIMETER SYSTEM AND PRESSURE ALTITUDE REPORTING SYSTEM/STATIC SYSTEM TEST REQUIRED BY FAR 91.411 AND ATC TRANSPONDER TEST REQUIRED BY FAR 91.413 HAVE BEEN PERFORMED AND FOUND TO COMPLY WITH FAR 43, APPENDIX E & F. DETAILS OF THIS TEST ARE ON FILE AT THIS REPAIR FACILITY UNDER:

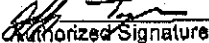
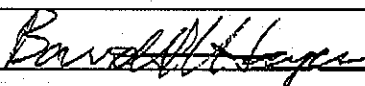
46031 12-20-05 CRS BIER466C Rudy Stetter
 WORKORDER DATE CERTIFICATE SIGNATURE

RICHMOND JET CENTER
 5745 HUNTSMAN RD
 RICHMOND, VA 23250

Reg #: N550GR Make: Lancair Model: LC40-550
 Date: 12-28-2005 W/O #: 4-9166 Meter: 141.5 S/N: 40015

-Trobleshot A/P system per S-Tec tech support, found pins 6 & 8 in wrong positions in connector. Swapped pins and connected. A/P functional check good on ground test.
 -This aircraft was repaired and inspected in accordance with current regulations of the FAA and is approved for return to service. Details of this repair are on file at this agency under the work order listed above.

[Signature] AP 3074122
 Authorized Signature

DATE	AIRFRAME TIME IN SERVICE	AVIONICS TIME IN SERVICE	DESCRIPTION OF WORK PERFORMED— SIGNATURE & CERTIFICATE NO. OF PERSON PERFORMING WORK
			RICHMOND JET CENTER 5745 HUNTSMAN RD RICHMOND, VA 23250
			Reg #: N550GR Make: Columbia Model: 300 Date: 02-13-2006 W/O #: 4-9434 Meter: 209.1 S/N: 40015
			-Replaced both #1 and #2 vcomm antenna gaskets with new gaskets. -Calibrated OBS on #1 and #2 nav, both systems tested good with Nav4011 test set. See Aero Industries Avionics WO 46115 -Replaced lens on GX50 faceplate with new.
			This airframe was repaired and inspected in accordance with current regulations of the FAA and is approved for return to service. Details of this repair are on file at this agency under the work order listed above.
			 Authorized Signature
5-23-06	225.1	225.1	Removed King K1-525A HSI + Garmin-AT SL-30 Nav-Com. Installed Garmin GNS-430 GPS-NavCom, Sandel SN 3308 EHSI, + Stec ST-901 GPSS.
			Filed forms 337, and updated weight + balance and equipment list. Generated Flight Manual Supplements for GNS-430, SN-3308, + MX-20, to be carried in aircraft at all times.
			Test flight-OK. Calibrated compass systems.
			Further details available on CA work orders A10183 + A1024B.
			Causey Aviation Services, Inc 5120 Smithwood Road Liberty, NC 27298 CRS EWCR 750D
			 ← for

