# THE AIRCRAFT AIRCRAFT MAINTENANCE MAINTENANCE RECORDKEEPING SYSTEM

## AVIONICS MAINTENANCE RECORDS



## **AVIONICS MAINTENANCE RECORDS**

(including transponder biennial checks)

Log No.

	Aircraft F	Registration No. $N44Y$	P
	Aircraft N	Manufacturer <u>Cirrus</u>	
	Model _	SR 20	
	Serial No	. <u>1169</u>	
		EQUIPMENT LIST	TING
	List all in	stalled avionics, autopilot and flig	ht director equipment.
	Mfg.	Model	Serial No.
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TIME TIME DATE IN IN **SERVICE** SERVICE

DESCRIPTION OF WORK I LIN ONW SIGNATURE & CERTIFICATE NO. OF PERSON PERFORMING WORK

LANCASTER AVIONICS, INC. 500-U AIRPORT ROAD LITITZ, PA 17543 CRS# LN7R261N LOG ID# 1049 22-June-2007 **WO# 12701 CIRRUS DESIGN CORP.** N44YP S/N 1169 **SR20** 

Pg 1/2

\*\*\*\* ITEM # 12701-1 REPAIR MFD \*\*\*\*

DISCREPANCY: REPORTED: MFD DIMMER CONTROL INOP. DISPLAY NOT BRIGHT ENOUGH DURING THE DAY. ACTION: REMOVED AVIDYNE EX5000 MFD P/N 700-00004-002 S/N 1058 AND SENT TO FACTORY FOR REPAIR. REINSTALLED FACTORY REPAIRED UNIT. OSP CHECKED GOOD.

\*\*\*\* ITEM # 12701-2 C/W WAAS UPGRADES \*\*\*\*
DISCREPANCY: C/W WAAS UPGRADES.
ACTION: Validated that the previous installation of a Garmin GNS430 was installed IAW with Garmin instructions and approved Original Cirrus Type Certification on date 1/8/2002. Verified this aircraft and all interfaced equipment are covered under the AML for STC# SA01933LA and Garmin 400W/S00W Series Upgrade Manual p/n 190-00357-06 Rev B (or later) per TSO-C146a. Summary of modifications done to the aircraft: Removed Garmin GA56 antenna p/n 011-00134-00 and installed new Garmin GA35 GPS/WAAS antenna p/n 013-00235-00 s/n 18992 as a direct replacement antenna (mounting configurations are unchanged). Removed Garmin GNS430 p/n 011-00280-10 s/n 97106214 and installed upgraded unit (same) GNS430W new p/n 011-01060-40 new s/n 97106214 using previously approved provisions from the removed GNS430. Removed previously approved Flight Manual Supplement for the GNS430 and inserted new GNS430W Flight Manual Supplement p/n 190-00356-63 FAA Approved date 12/21/2006 into Aircraft Flight Manual. Updated the aircraft Equipment List. Weight and Balance change negligible. Inserted Garmin supplied Instructions for Continued Airworthiness p/n 190-00356-65 in the aircraft records.

Validated that the previous installation of a Garmin GNS430 was installed IAW with Garmin instructions and approved Original Cirrus Certification on date 1/8/2002. Verified this aircraft and all interfaced equipment are covered under the AML for STC# SA01933LA and Garmin 400w/500w Series

500-U AIRPORT ROAD LITITZ, PA 17543 CRS#LN7R261N LANCASTER AVIONICS, INC. LOG ID# 1049 22-June-2007 **WO# 12701 CIRRUS DESIGN CORP. SR20** N44YP S/N 1169

Pg 2/2

Upgrade Manual p/n 190-00357-06 Rev B (or later) per TSO-C146a with the following exceptions (to be considered a minor deviation to the STC): Installation does not comply with "Acceptable View" requirements for WAAS operations because required annunciators were not installed. #2 GNS430W GPS operations are not approved for precision approaches IAW FSAW 94-32c. Panel placarded "#2 GPS NOT APPROVED FOR PRECISION APPROACHES". Summary of modifications done to the aircraft: Removed Garmin GA56 antenna p/n 011-00134-00 and installed new Garmin GA35 GPS/WAAS antenna p/n 013-00235-00 s/n 19803 as a direct replacement antenna (mounting configurations are unchanged). Removed Garmin GNS430 p/n 011-00280-10 s/n 97106236 and installed upgraded unit (same) GNS430W new p/n 011-01060-40 new s/n 97106236 using previously approved provisions from the removed GNS430. Removed previously approved Flight Manual Supplement for the GNS430 and inserted new GNS430W Flight Manual Supplement (FAA Field Approved) into Aircraft Flight Manual. Updated the aircraft Equipment List. Weight and Balance change negligible. Inserted Garmin supplied Instructions for Continued Airworthiness p/n 190-00356-65 in the aircraft records.

CRS# LN7R261N

Date

MAKE: Cirrus MODEL: SR20 S/N: 20-1169 REG. NO: 44YP WORK ORDER 9366-07-2007



#### Cirrus Design Factory Service Center

Repair Station No. YD5R855Y 4515 Taylor Circle Duluth, MN 55811 Phone 218-788-3101

DATE: 7/1/2007 A/C TSN: 1043 6 HOBBS 1043.6

#### Airframe Entries

(1) Removed MFD p/n 14750-011, s/n 1058, installed MFD p/n 14750-011S, s/n 23254514 and accomplished setups IAW SR20 AMM 31-60. Functional

I have reviewed the life on this aircraft and the accompanying discrepancy forms. The aircraft, airframe, aircraft engine, propeller, or appliance identified was repaired in accordance with current requirements of the Federal Aviation Administration and is approved for return to service. Pertinent details of repair are on file at this Certified Repair Station CRS YD5R855Y

DATE: 7/1/2007

SIGNED:

Work Order: 9366-07-2007

Printed by EBis 3 (datcomedia.com)

Joseph Sullivan Certified Repair Station No. YD5R855Y

DATE	AIRFRAME TIME IN SERVICE	AVIONICS TIME IN SERVICE	DESCRIPTION OF WORK PERFORMED— SIGNATURE & CERTIFICATE NO. OF PERSON PERFORMING WORK
	LAN LOG N44	ID# 1289 2	DNICS, INC. 500-U AIRPORT ROAD LITITZ, PA 17543 CRS# LN7R261N 6-December-2007 WO# 13287 69 CIRRUS DESIGN CORP. SR20 Pg 1 / 1
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	- Field	Approved FN LN7R261N	as approved for IFR Enoute, Terminal, Non-Precision Approach Approval.    12/26/05   Date
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4	000 2990				TESTED IN	COMPLIAN	CE WITH F.A.R. 4	43			
	000 4980	40			APPENDIX		A-B-C				
	5000 5990		2 2		AFFEINDIA				4		all less
	3000 7980						I.F.R.	10		V.F.R.	Mary State of State o
	0000 9970	40		S. Santa			TEST BOX				
	2000 11.96						OTHERS			T	1116
1	4000 39 6	0			_	W	ORK ORDER #	10-639	9	DATE	4/4/
	5000 1497	0 40			=						
	6000 15 96	0			F.A.A.	INS	TRUMENT REPA	IR STATION	#		
	8000 17,90	70						BX1RO5	0K		
	20000 1999				CLA	SS 1,2,3,& 4	AND SPECIALIZ	ZED SERVICI	ES		
	22000				JE		ng -				
	25000	<b>温度</b>									
-	30000	<b>国际</b>					KEYSTON	IE INSTRUM	ENTS INC.		
	35000						P.O.BOX 2				
	40000							TOR STREE			
	45000						LOCK HA	VEN PA. 177			EAD
	50000		×			*	TELE:	570-748-			F.A.R
					20. 4		FAX:	570-748-	-4439		PART
	60000						•				Appe
	70000										

SECTION V PAGE 5 PART A PART B **ENCODER** TEST **TOLERANCE** ALTITUDE +/- 125 FT. 1. <u>REPLY FREQUENCY</u> 1090 +/-3 MHZ: \_ IN FEET 2. RECEIVER SENSITIVITY - 73 +/- 4DBM 1020 -1000 0 3. **SUPPRESSION**: INTERROGATIONS @ RATE OF 235 500 500 +/- 5 IPS IN MODE 3/A 4*30* 1,000 1,500 A. REPLIES TO NO MORE THAN 1% IPS OR LESS 1930 2,000 B. REPLIES TO AT LEAST 90% IPS WHEN 3,000 930 P2 IS 9DB < P1 4,000 6,000 C. DIFFERENCE IN MODE 3/A & MODE C 7930 8,000 RECEIVER SENSITIVITY DOES NOT 9930 10,000 EXCEED 1 DB. 11,930 12,000 14,000 4. RF OUTPUT POWER 930 16,000 18,000 CLASS AA & 2A ATCRBS TRANSPONDERS. VERIFY PEAK OUTPUT POWER IS BETWEEN 25 20,000 125-500 WATTS 22,000 25,000 30,000 35,000 NOTE: THE ENCODER MUST TRANSMIT ALTITUDE DATA 40,000 CORRESPONDING TO WITHIN +/-125 FT. OF THE 45,000 INDICATED OR CALIBRATED DATUM OF THE PILOTS 50,000 ALTIMETER. REPLY CODES PART C **PULSE CHECK** MODEL 5734 C<sub>1</sub> \_\_S/N **ENCODER:** MODEL C2 GARNIN MODEL GTX327 SIN A2 C4 A4 IN ACCORDANCE WITH THE REQUIREMENTS OF F.A.R. 91.413 **B**1 THE ATC TRANSPONDER AND / OR INTERIGATED ALTITUDE DATA D1 CORRESPONDENCE SYSTEM HAS BEEN INSPECTED/TESTED TO B2 COMPLY WITH APPENDIX F OF PART 43 AND PARAGRAPH (C) D2OF APPENDIX E. **B4** D4 F2 SP1 **TESTED BY** Signature MODEL 33808 AIRCRAFT MAKE CIARUS (FORM 102) F. A. A. INSTRUMENT REPAIR KEYSTONE INSTRUMENTS, INC.

WM. T. PIPER MEMORIAL AIRPORT
320 PROCTOR STREET, P.O. BOX 2
LOCK HAVEN, PA 17745

PHONE: 570-748-7083 FAX: 570-748-4439

F.A. A. INSTRUMENT REPAIR STATION NO: BX1R050K CLASS 1, 2, 3, 4, AND SPECIALIZED SERVICES

REYSTONE INSTRUMENTS ERVICES, INC.

Piper Memorial Amport

353 Proctor Street

P.O. Box 2

[NVO[E 0497 \*

TOTAL ▶

	∟ock Haven,	PA 17745					
Phone: 570-	-748-7083	Fax: 570-748	3-4439 <b>(</b> /	PATE  April 62010  Sylip to	ORDER NO.	P	
то: <u>Jet A</u> 971	eeo l	LC		SINIP TO			2
971	Heilm	nan Rd					
MONT	OURS V	1 LLE P1	4 177)2/				
SALESPERSON	DATE SHIPP	ED SHIPPED	O VIA F	O.B. POINT	TERMS		
QUANTITY /CLA	Pita	t static	CRECK	£-	UNIT PRICE	169	00
	Sales	tay				10	14
Form #201	1% Service ch	narge will be added afte	er 30 days. Annual	percentage rate is 12%		Reese's Pr	int Shop
1 0 m 4201		The second	hank Yo	eu .		748-6.	
			<b>~</b> *			The second secon	11

JET AERO, LLC 971 HEILMAN RD. MONTOURSVILLE, PA 17754-7994 USA

A/L

DETAILS -

WO: 15630 TASK: 1 AV REPAIR SANDEL EHSI START: 07/28/2010 FINISH: 07/28/2010

PART#: SN3308-00-BL MODEL#: SN3308 SER#: 3900

DISCREPANCY: REPLACE DISPLAY LAMP.

ACTION: REPLACED DISPLAY LAMP AND RESET LAMP TIMER. UNIT FINAL CHECKS TO MFG'S SPECS.

HOURS: 0.50 LABOR: \$44.50 PARTS/EQUIP/OTHER: \$214.00 TASK TOTAL: \$258.5

WO: 15630 TASK: 2 NC WAAS SOFTWARE UPGRADE START: 07/28/2010 FINISH: 07/28/2010

MODEL#: 2EA GNS430W SER#: 97106236 & 97106214

DISCREPANCY: WAAS SOFTWARE UPGRADE.

ACTION: Upgraded Garmin 400w Series unit s/n 97106236 & 97106214 Main software to version 3.30 IAW Service Bulletin #0918A and GPS software to version 3.2 in accordance with Garmin Service Bulletin  $\lambda$  Removed Garmin 400W Series FMS and inserted new FMS p/n 190-00357-03 Rev B in POH/AFM. Ops checked gw

HOURS: 0.50 LABOR: \$0.00 PARTS/EQUIP/OTHER: \$0.00 TASK TOTAL: \$0.00

TASK Qty Part # \ Serial #

1.00 90122-В

Description

LAMP

Each

214.000

Labor:

Parts & Equip: Sub Total:

PA STATE:

Invoice TOTAL:

IOB	QUAN.	PART NO.	DESCRIPTION	UNIT TOTAL	LANCASTE:
7	1	90122-B	Lamo		LANCASTER AIRPORT
		101220	Lamp		500-U AIRPORT ROAD
					LITITZ, PA 17543
					717-569-1953 FAX 717-569-1722
					NAME REC'D DATE
					Jel Hero, LLC PM 7/28/10
					— ADDRESS PROMISED AM CUSTOMERS OF DEBNO.
					CITY TERMS ORDER WRITTEN BY
					CO MIL
					AIRCRAFT MAKE/MODEL/SERIAL NUMBER HOBBS PHONE REGISTRATION NUMBER
					Cirrus 1573.4 570-435-0164 NY44P
					JOB INIT'L REPAIR ORDER INSTRUCTIONS 1 LABOR CHARGE
					1 Mek Repaired back for lampin Sandel EHSI,
			1	- 1997	5N 3900 by replacing backlight lamp (Display)
					SN 3900 by replacing backlight lamp (Display) Reset lamp timer. Ops ChKS OK (mx)
					- 2 Out Clu Garmin SB's 0918A & 0848A by updating
					Main & GRS WARS SW From 3.11/3.1 to 3.30/3.2
			4		JESpertively to #1 GNS 430 W SN 97106236
					and #2 CAISUZOW, SAI 97106214 AIL DOS
					Chrs OK @ Updated F.M.S. accordingly (aux)
					- Christian Control of the Control o
					TOTAL LABOR
					I hereby authorize the above repair work to be done along with the necessary material, and hereby grant you and/or your employees permis-
					sion to operate and fly the airplane herein described for the purpose of testing and/or inspection. An express mechanic's lien is hereby acknowl-
					edged on above airplane to secure the amount of repairs thereto.  SHIPPING/HANDLING
					NOT RESPONSIBLE FOR LOSS OR DAMAGE TO PLANE OR ARTICLES LEFT IN PLANE IN CASE OF FIRE, THEFT OR ANY OTHER CAUSE
			<del>,, , , , , , , , , , , , , , , , , , ,</del>		BEYOND OUR CONTROL. MISC.
	<u> </u>				XSUB TOTAL
		MAINTENA	ANCE RELEASE		*YES* NO N/A PA SALES TAX
		d/or component identific			Preliminary Inspection Findings
		eturn to service.		// /	
ate	7-	28-10 /	ndenle.	hombas	Hidden Damage Inspection Findings □ <b>TOTAL ►</b>
ANC		AVIONICS, INC.	7	CRS LN7R261N	(**See Attached Prelim./Hidden Damage Insp. Form)
уре	Log Entr	y Made: Adlesive			WHITE/Customer CANARY/Shop Copy
					CANANT/Ship Copy

INAI CHIAL USED



#### FAR 91.217 - ALTITUDE ENCODER TEST

				Date:	12-3-10		
	customer:	ETAER	O INC.	Aircraft	Make	CIRR	US \$R20
	aft Model:	\$R 2		Aircraft	Reg. Number:	NAA	YP
	1 2 3 2 3 2					和學學課	A CHARLES
		N	Manufacturer		Model	1	Serial Number
	Altimeter:	UNI	TED		59340-	31.249H	22369
Tra	nsponder:		MIN.		GTX327	7	83707608
. 1	Encoder:	A.C	.K.		A-30		75696
				( ( ) ( ) ( ) ( ) ( ) ( ) ( ) ( ) ( ) (		<b>新教集</b>	の対象を
Ence	oder Readin	g	Altim	neter Re	ading	All	t. Scale Error
	0	1	-45	to	70		0
	500		470	to	550	1	+15
	1,000		950	to	1050		+5
	3,000		2950	to	3055	-	+10
	6,000		5950	to	6055		0
	10,000		9945	to	10050	_	25
	14,000		13940	to	14035	_	15
-	18,000			to		1	
	20,000			to	•		
	25,000			to			
	30,000			to			
	35,000			to			
PASS:	X		Tech	nician:	Liebaro	11. 1	talla)
FAIL:			Serve and analysis and analysis and	pector:	Believe	11	Halla

(717) 569-1953 Phone (717) 569-1722 Fax Lancaster Avionics Inc 500-U Airport Rd Lititz, PA 17543

www.lancasteravionics.c. CRS# LNPR20

inted 44 (4 (0040 4-50-500))

CAT

DATE	AIRFRAME TIME IN SERVICE	AVIONICS TIME IN SERVICE	DESCRIPTION OF WORK PERFORMED— SIGNATURE & CERTIFICATE NO. OF PERSON PERFORMING WORK
			6.6.11 Hobbs 1139.9 SR-20 N44 y P
			Recalib. Compass System of SANDEL
			SN 3308-0-BL AN 3900, RAMP TEST OK
			\$ = 14ht test of REF. Who 16392
			LANCASTER AVIONICS INC LANCASTER AIRPORT LITITZ, PA 17543
			DATE CERTIFICATE NO. LN7R261N SIGNED
			6.8-11 Hobbs 1147.7 5R-20 N445P
			Remove 5N3308 & 3900, LG Sh 12222992, and
			Flux detected 54 7451. Install Loaner 5N3308
			An 4001, DG AN 10222926, & Flux detectors she H340
			RECAILS. COMPARS SYSTEM & RAMP TEST & K to MITG SIGH
			LANCASTER AVIONICS INC LANCASTER AIRPORT LITITZ, PA 17543
			DATE 6-8-1/ CERTIFICATE NO. LN7R261No
			SIGNED and
			LANCASTER AVIONICS, INC
	Co-Pilot	Norted INST 5934 ASPEN EFD IO	Alicraft Type: Curry SR-20 Nn: YYYP  Test Celling 3000000000000000000000000000000000000
	Altimete Pilot Co-Pilot	manufacturer Part No	Alicraft Type: C 1 C S 1 C S T S 1 C S S BEEN  Alicraft Type: C 1 C S 1 C S T S S BEEN  AS BEEN  AS BEEN  DIX F  2.52
	Atimelia Flor Co-Pilot Encoder	Variations Per No. 1934  Variations 5934  Variations 5934	ATIC and ENCODER EVALUATION PER FAR 91.411 · FAR 43, APPENDIX · E·  AIrcraft  Type: C / / / / / / / / / / / / / / / / / /
	Allmein Pioc Co-Pioc Co-Pioc Co-Pioc Co-Pioc Co-Pioc Co-Pioc Encoder Encoder Encoder Error Error - 1000 - 2ero	ASPEAU SS 6422  Pilot Co-Pilot  PS 70  PO 0	Arcraft  Type: C 1 / V S 1/2 - 27 N#: 44 Y P  Besta Number  Fest Calling  Prior  1
	Atimeter Pilot Co-Pilot Co-Pil	Pari National	Alicraft  Type: C 1
	Allimeter Pilot Co-Pilot Encoder Fire Fire Fire Fire Fire Fire Fire Fi	ASPEN SEPONO  PILO CO-PILOT  +10  +15  +15  +15  +15	Alicraft  Type: C 1
	Atimeter Pilot Co-Pilot Co-Pil	Asign   Pari Na   Asign   Pari Na   Asign	Alicraft  Type: C 1
	### ABM   #### ABM   ##### ABM   ##### ABM   ##### ABM   ##### ABM   ##### ABM   ##### ABM   ###### ABM   ##### ABM   ######## ABM   ########## ABM   ###################################	PRINT SEPTING  ASPEN F-PO 10  Pilot Co-Pilot  +5  -10  +10  +15  +15  +15  +15  -15  -15  -25	Africand ENCODER EVALUATION PER FAR 91.411 · FAR 43, APPENDIX · E  Aircraft  Type: C   C   C   S   S   S    As BEEN  DIX F  DIX F  DIX F  Plot  1   C   Plot  2   C   Plot  2   C   Plot  3   C   Plot  40%, Scooth
	Allimeter   Alli	PRINCE	Alicraft
	Allimeter   Alli	PRINCE	After and ENCODER EVALUATION PER FAR 91.411 - FAR 43, APPENDIX 'E'  ER (S)  All Craft Type:  C
	Allimeter   Priority	PRINCE	ATIC and ENCODER EVALUATION PER FAR 91.411 - FAR 43, APPENDIX 'E'  ER (S)  All craft Type:  Crest Series Number  Test Calling Accord Us  Doi:  100 99.03  Allet Enect  40%, Ecot H  50%, Footh  100 +15 -175  Allet Enect  410 +15 -175  Alle

DATE

AIRFRAME TIME IN SERVICE AVIONICS TIME IN SERVICE

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

LANCASTER AVIONICS, INC. 500-U AIRPORT ROAD LITITZ, PA 17543 CRS# LN7R261N LOG ID# 2706 12-October-2011 WO# 16727 HOBBS 1830.3

N44YP S/N 1169 CIRRUS DESIGN CORP. SR20

Pg 1/1

\*\*\*\* ITEM # 16727-1 C/W ASPEN SYNTHETIC VISION UPGRADE \*\*\*\*
DISCREPANCY: C/W ASPEN SYNTHETIC VISION UPGRADE.
ACTION: UPGRADED EFD1000 S/N 9903 FROM SOFTWARE VERSION 2.2.3 TO VERSION 2.4.1 IAW ASPEN SB#
2011-05A AND UNLOCKED THE SVT OPTION IAW TN# 2011-10A. UPDATED POH AND PILOT GUIDE AS REQUIRED. OPS CHECKED GOOD.

Somes Jood

CRS# LN7R261N James Good

> LANCASTER AVIONICS INC LANCASTER AIRPORT LITITZ, PA 17543

DATE 8-23-13
CERTIFICATE NO. LN7R2
SIGNED SCHOOL

12/14/2011

T

PI

#

SI

D/



ALTIMETER/STATIC and ENCODER EVALUATION PER FAR 91.411 - FAR 43, APPENDIX 'E'

CIRRUS BRZO NA4YP

LANCASTER AVIONICS INC. CRS # LN7R261N

I CERTIFY THAT THE ALTIMETER, ENCODER AND STATIC SYSTEM TESTS REQUIRED BY FAR 91.411 HAVE BEEN PERFORMED I/AW FAR 43 APPENDIX E

UNIT TYPE TESTED TO
#1 ALTIMETER UNITED 18,000/
#2 ALTIMETER ASPEN 18,000/
ENCODER (S) 7.C.T. 18,000/
STATIC SYSTEM TEST DATE 8-23-13
SIGN SCHOOL MALLO DATE 8-23-13

	Customer:	JET AERO L	.L.C.	Type:	1 1 1000	s \$R2	20	N#:	N-	44 YF	
						Test Alt	Pi	lot		Co-l	Pilot
Utimeter	Manufacturer	Part Number	Seri	al Number	Test Ceiling	18,000	Up Down	Diff		Up Down	Diff
Pilot	UNITED	5934D-3A.24	94 4	-22367	System Leak	O FPM			Tol		
Co-Pilot	ASPEN	EFD 1000	99	03	Hysteresis:	4 000	-25	4.0-	+/- 75		NA
ncoder	T.C.I. +	\$\$0120-30N	14	896	50%	9,000	-10	+15	1.75		Ĺ
					40%	7,200	-20 -5	†15	+/- 75		
					After Effect	o'	-5 <sup>-</sup>	<del>1</del> 5	+/- 30		Ψ

-	Dilak	Co Dilet	Tall	E	do- 425'			-	1663
Error	Pilot	Co-Pilot	Tol		der 125'		Fricti		
-1000	-15	-5	20	N/A	-900	131	Pilot	Tol	Co-Pilot
zero	-5	0	20	-40	55	1000	25	70	N/A
500	-5	C	20	+60	333	2000	25	70	
1000	-5	15	20	965	1665	3000	25	70	
1500	- 5	tic	25	1460	1560	5000	5.15	70	
2000		TIC	30	1770	2005	10000	35	80	
3000	Ĉ	110	30	2:170	30.70	15000	35	90	V
4000	C	Tio	35	3170	4070	20000		100	1
6000	-15	+10	40	5960	6060	25000		120	
8000	-30	T10	60	7950	8050	30000		140	
10000	-30	+20	80	9950	10055	35000		160	
12000	-30	+ 25	90	11955	12055	40000		180	
14000	-25	+3C	100	13455	14060	50000		250	
16000	-15	+3C	110	15175	16.675	P	ressure - Alt D	iff. Tol	+/- 25
18000	-	T40	120	17990	18095		Pilot	Tol	Co-Pilot
20000			130			28.10*	-1730	- 1727	-1725
22000			140			28.50"	-1340	- 1340	-1340
25000			155			29.00*	-870	- 863	-860
30000			180			29.50°	-395	- 392	-390
35000			205			29.92*	0	zero	0
40000			230			30.50*	535	• 531	535
45000			255			30.90°	£ 95°	• 893	693
50000			280			30.99*	975	. 974	974
D11-1-A11		PASS		FAIL	Min.	echnician:	Roher	14	tine
Pilot Alt	The second second	$\rightarrow$	-			To make the		Signature	- Contract
Co-Pilo	t Altimeter	-	_			Date:		3-1	

(717) 569-1953 Phone (717) 569-1722 Fax Lancaster Avionics Inc. 500-U Airport Rd Lititz, PA 17543

CRS# LN7R261N

ge No		AVIONICS	WALLER & CERTIFICATE NO.	
	AIRFRAME TIME	TIME	DESCRIPTION OF WORK PERFORMED— SIGNATURE & CERTIFICATE NO. OF PERSON PERFORMING WORK	
DATE	IN	SERVICE	The Altimeter System & altitude Reporting	
	SERVICE		The Altimeter System & actions Required by	_
			The Altimeter System & altitude  Equipment tests & Inspections Required by  Equipment tests & 91.413 have been performed  F.A.R. Part 91.411 & 91.413 have been performed	
			- +01 /11 & 51.710 III	_
			The Altimeter has been tooto 9-75 Date	_
_		-	Signed	
			F.A.A. Repair Station No: BX1R050K	
		-	F.A.A. Repair Station No.	_
			Instrument Class 1,2,3, and 4	
	,			
		+	Complies with FAR	
			Compression Annondix F	
		_	Part 43, Appendix E	
			Calibrated to: 16,000	
		+	2-10-40-4-4	
			Date 10-9-15  Keystone Instruments Services Inc.	
			Keystone instruments services	
		-		
			SARASOTA SARASOTA	
	Sarasota Av	rionics Inc Tamp	(TPA) SHRHOUIT	
	_ Tail No.: N4	444P/Cirrus/SK	Ordor: 21037	
	Date: 2/23	/ 10	CALASTA (SN: 176005636) and GTN 650	
	- Romoved G	NS430W (#1 and	#2) and GMA 340. Installed GTN 750 (SN: 12A017156), GMAGOS (678) Rev. 8 dated Nov 2014 per	
	/CNL 170010	21791 according t	O Garrier Pulletin SR 7X-34-23 KL, Removed and	
	STC SAN201	195F-D. Installed	GA 35 (SIV. 12035 1)	
			SSD-12G(SN: 20661). Removed GTA327 and Material CDL 98 (SN:	
	replaced En	ncoder, installed :	1400 00724 10 Poy 4 per STC SA01714WI, Installed Garmin GDC 88 (51)	
	according t	ncoder, installed : o Garmin Installa	Ition Manual 150 0073 / 25 10 10 10 10 10 10 10 10 10 10 10 10 10	
	according t	ncoder, installed to Garmin Installa to ST	C SA2119SE and Part 23 AML STC Installation Manual(190-01310-00) dated October 2015	
	according t	ncoder, installed to Garmin Installa to ST	C SA2119SE and Part 23 AML STC Installation Manual(190-01310-00) dated October 2015	
	according to 22T004820 Revision 8.	ncoder, installed to o Garmin Installa o) according to ST Installed Garmin	C SA2119SE and Part 23 AML STC Installation Manual(190-01310-00) dated October 2015 AOA (GSU 25 SN: 2SA002699, GI 260 SN: 3GQ001501, GAP 26 SN: 34F00080) according to 190-01752-00 Rev 5 dated Sept 2014. Installed Flight Stream 210 (SN: 3RE003239) according to	
	according to 22T004820 Revision 8. Garmin Ins	ncoder, installed to Garmin Installad to Garmin Installad to ST Installed Garmin tallation Manual tallation Manual	C SA2119SE and Part 23 AML STC Installation Manual(190-01310-00) dated October 2015 AOA (GSU 25 SN: 2SA002699, GI 260 SN: 3GQ001501, GAP 26 SN: 34F00080) according to 190-01752-00 Rev 5 dated Sept 2014. Installed Flight Stream 210 (SN: 3RE003239) according to 190-01700-00 Rev E. dated Dec 2015.	
	according to 22T004820 Revision 8. Garmin Ins	ncoder, installed to Garmin Installad to Garmin Installad to ST Installed Garmin tallation Manual tallation Manual	C SA2119SE and Part 23 AML STC Installation Manual(190-01310-00) dated October 2015 AOA (GSU 25 SN: 2SA002699, GI 260 SN: 3GQ001501, GAP 26 SN: 34F00080) according to 190-01752-00 Rev 5 dated Sept 2014. Installed Flight Stream 210 (SN: 3RE003239) according to 190-01700-00 Rev E. dated Dec 2015.	
	according t 22T004820 Revision 8. Garmin Ins Garmin Ins	ncoder, installed to Garmin Installad to Garmin Installad to ST Installed Garmin tallation Manual tallation Manual tallation Manual	C SA2119SE and Part 23 AML STC Installation Manual(190-01310-00) dated October 2015 C SA2119SE and Part 23 AML STC Installation Manual(190-01310-00) dated October 2015 AOA (GSU 25 SN: 2SA002699, GI 260 SN: 3GQ001501, GAP 26 SN: 34F00080) according to 190-01752-00 Rev 5 dated Sept 2014. Installed Flight Stream 210 (SN: 3RE003239) according to 190-01700-00 Rev E. dated Dec 2015.  en ACU, Removed (P/N 910-00004-001 S/N 11837) Installed (P/N 910-00004-001 S/N:15010) op	
	according t 22T004820 Revision 8. Garmin Ins Garmin Ins Removed a	ncoder, installed to Garmin Installad to Garmin Installad Sarmin Installed Garmin tallation Manual tallation Manual and replaced Asp CU noting no disc	C SA2119SE and Part 23 AML STC Installation Manual(190-01310-00) dated October 2015 C SA2119SE and Part 23 AML STC Installation Manual(190-01310-00) dated October 2015 AOA (GSU 25 SN: 2SA002699, GI 260 SN: 3GQ001501, GAP 26 SN: 34F00080) according to 190-01752-00 Rev 5 dated Sept 2014. Installed Flight Stream 210 (SN: 3RE003239) according to 190-01700-00 Rev E. dated Dec 2015.  en ACU, Removed (P/N 910-00004-001 S/N 11837) Installed (P/N 910-00004-001 S/N:15010) op crepancies.	
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	Table III			Table IV				Tabl	e II	
scale	friction	up	down	baro scale	7 7	baro scale	-		hysieresis	-
error	error	encoder	encoder	error		milibars		ALT	up	down -
-1000				28.10	-1730	951.6	40%	8000	8,010	8,040
0			*	28.50	-1340	965.1	50%	10.000		10030
500	· · · · · · · · · · · · · · · · · · ·	**		29.00		982.0				
995	40			29.50 ~	390	999.0	After	Effect	30 ft	0
1495				29.92	0	1013.2	Case	Leak	100ft	$\mathcal{O}$
	40		4	30.50	1530	1032.8	护基的	Serial No:	NI	4446
2570				30.90	+890	1046.4		Calibration	2.0	20 60
3010	40			30.99	+970	1049.4				
4000										
	40			TESTED IN (	COMPLIANCE	WITH F.A.R. 4	3			
6010			* 1	APPENDIX E	PAR.	A-B-C				
8010	;							_		
9,990	40					I.F.R.	X		V.F.R.	
11.980			1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1			TEST BOX				
13.990						OTHERS				
14.990	40				WOR	K ORDER #	15-841		DATE	10-9-15
15 980		79		2.2			<i>4</i> ·			
18030			26	F.A.A.	INSTRU	MENT REPAI	R STATION #			
20,050	40						BX1RO50K			
				CLASS	1,2,3,& 4 ANI	O SPECIALIZE	D SERVICES	1 2		
į.									-3	
3						KEYSTONE	INSTRUMEN	ITS SERVICE	S, INC.	
						353 PROCT	OR STREET, F	PO BOX 2		
						LOCK HAVE	N PA. 17745			
		11								
				1		TELE:	570-748-70	33		F.A.R.
				1		FAX:	570-748-44	39		PART 43
				1						Appendix E
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n 103 0406 Reese's Print Shop 748-6528

#### **AIRFRAME AVIONICS** DESCRIPTION OF WORK PERFORMED-TIME DATE SIGNATURE & CERTIFICATE NO. OF PERSON PERFORMING WORK SERVICE SERVICE Sarasota Avionics Inc Tampa (TPA) 6530 Tampa Executive Airport Rd. Tampa FL 33610 Tail No.: N44YP/Cirrus/SR-20/Serial Number: 1169 Date: 9/9/2016 Work Order: 21171 Troubleshot altimeter and pitot not indicating correctly, found water in static sump. Removed water in static system performed op check of pitot/static indications noting no discrepancies. I certify all work done to the aircraft and/or component identified above was done in accordance with current regulations of the Federal Aviation Administration and was found approved for return to service with respect to the work performed. \_, for Sarasota Avionics Tampa, QV0D957X Sarasota Avionics Inc Tampa (TPA) 6530 Tampa Executive Airport Rd. Tampa FL 33610 Tail No.: N44YP/Cirrus/SR-20/Serial Number: 1169 Date: 2/14/2017 Work Order: 21254 Tach:2703.8 Complied with Garmin SB 1655 Rev A. No discrepancies noted. I certify all work done to the aircraft and/or component identified above was done in accordance with current regulations of the Federal Aviation Administration and was found approved for return to service with respect to the work performed. , for Sarasota Avionics Tampa, QV0D957X Sarasota Avionics Inc Tampa (TPA) 6530 Tampa Executive Airport Rd. Tampa FL 33610 Tail No.: N44YP/Cirrus/SR-20/Serial Number: 1169 Work Order: M265 Date: 2/24/2017 Hobbs:1881.3 Deactivated and Deferred Engine Instruments on MFD Per FAR 91.213(d) I certify all work done to the aircraft and/or component identified above was done in accordance with current regulations of the Federal Aviation Administration and was found approved for return to service with respect to the work performed. , David McGee A&P 3195124.

			DESCRIPTION OF WORK PERFORMED—
ge No	AIRFRAME TIME	AVIONICS TIME IN	DESCRIPTION OF WORK PERFORMED— SIGNATURE & CERTIFICATE NO. OF PERSON PERFORMING WORK
DATE	IN SERVICE	SERVICE	
			SARASOTA
	Sar	rasota Avion	SHRASOTA  SARASOTA  Tampa, FL 33606  C/Cirrus/SR20/SN:1169  MAINTENANCE
	84	5 Severn Ave	
		'1 NA' NATI	A INCOME ALTIC
	Da	ite: 2/15/18 bbs: 1965	
	Ho	DDS: 1700	50 and GTN650 Main software from v6.21 to v6.41 in accordance with Garmin n NO.: 1758 Rev B.
	_ IIr	dated GTN7	50 and GTN650 Main 30.00
	l Se	rvice Bulleti	
			rk done to the aircraft and/or component identified above was done in
	Ic	ertify all wo	rk done to the aircraft and/or component identified above was done in the current regulations of the Federal Aviation Administration and was found the current to service with respect to the work performed.
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	ar ar	oproved for	
		12	for Sarasota Avionics Tampa, QV0D957X
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LANCASTER AVIONICS 500 U AIRPORT RD LITITZ PA 17543 717-569-1953

DATE: 08/23/13 MER#: 04867589

TINE: TERH: I

S-A-L-E-S D-R-A-F-T

REF: 0002 BCH: CD TYPE: MC TR TYPE: PR INV #: 23309

AMOUNT:

\$493.

ACCT: \*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*

EXP: \*\*/1

AP: 97345C

MANE: ERIC CIPCIC

I AGREE TO PAY ABOVE TOTAL AMOUNT ACCORDING TO CARD ISSUER AGREEMEN (MERCHANT AGREEJENT IF CREDIT VOUCH

TOP COPY-MERCHAINT COPY-CUSTON

PART - 1	
INVOICE # WORK NO: 15-84/  CUSTOMER Jet Acon	WOICE
ADDRESS	7156
INST: P. to + /static S/N: N# 44 YP	ORDER NO. 15-84/ N444P
MFG. NO: UNITED, GARMIN TYPE 20,000	
PART - 4 THE AIRCRAFT, AIRFRAME, AIRCRAFT ENGINE, PROPELLER OR APPLIANCE IDENTIFIED ABOVE WAS REPAIRED 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 AGENCY UNDER WORK ORDER #	TERMS, CK# //35
DATE 10-9-15 SIGNED MWA LA	UNIT PRICE TOTAL
KEYSTONE INSTRUMENTS SERVICES INC.  WM. T. PIPER MEMORIAL AIRPORT P.O. BOX 2 • 353 PROCTOR STREET LOCK HAVEN, PA 17745  REPAIR STATION #BX1R050K INSTRUMENT CLASS 1, 2, 3, 4 AND SPECIALIZED SERVICES	
FORM 100A	
	1 1 1

Form #201

Thank You

1% Service charge will be added after 30 days. Annual percentage rate is 12%

Reese's Print Shop 748-6528

588.00 588.00 35.28 623.28 723.65 Line 113 AND
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CORP.

9

**JET AERO, LLC** 971 HEILMAN RD. MONTOURSVILLE, PA 17754-7994 USA INVOICE

23309

Work Order#: 18348 Page #: 1 of 1

> Date: Aug-23-2013 Terms: COD

Account: JEAER Your PO#: VERBAL Our TEL: 717-569-1953

Your TEL: 570-435-0064 Tail#: N44YP

A/C Make: CIRRUS DESIGN CORP.

Model: SR20 **Serial**: 1169

TASK TOTAL: \$439.50

TASK TOTAL: \$99.00

- DETAILS

WO: 18348 TASK: 1 AV C/W 2YR IFR CERTS START: 08/23/2013 FINISH: 08/23/2013

DISCREPANCY: C/W 2YR (1)STATIC/(2)ALT/(1)XPDR/(1)ENC CERTIFICATION.

ACTION: COMPLIED WITH FAR 91.411 AND FAR 43, APPENDIX E ALT./ENC./STATIC SYS CERT. COMPLIED WITH FAR 91.413 AND

PARTS/EQUIP/OTHER: \$0.00

FAR 43, APPENDIX F 2YR TRANSPONDER CERT.

HOURS: Flat Rate LABOR: \$439.50

WO: 18348 TASK: 2 AV REPAIR ASPEN PFD START: 08/23/2013 FINISH: 08/23/2013

MODEL#: EFD1000 SER#: 9903

LABOR: \$99.00

DISCREPANCY: ASPEN ALTIMETER HAS 35 FT ERROR WHICH EXCEEDS ALLOWABLE TOLERANCE. REPAIR KNOB ON RIGHT SIDE - HARD TO PUSH IN.

HOURS: 1.00

ACTION: ADDED SHIM TO RIGHT KNOB TO IMPROVE OPERATION. CALIBRATED ALTIMETER I.A.W. ASPEN TECH NOTE 2009-09, REV PARTS/EQUIP/OTHER: \$0.00

WO: 18348 TASK: 3 AV ADJUST ALTIMETER START: 08/23/2013 FINISH: 08/23/2013

PART#: 5934D-3A.249H

DISCREPANCY: BAROMETRIC CORRECTION SCALE HAS ERRORS WHICH EXCEED ALLOWABLE TOLERANCE.

ACTION: ADJUSTED BAROMETRIC CORRECTION SCALE TO CERTIFICATION SPECS. WORK PERFORMED I.A.W. FAR 91.411 AND FAR 43

APPENDIX E.

HOURS: 0.50 LABOR: \$49.50 PARTS/EQUIP/OTHER: \$0.00 TASK TOTAL: \$49.50

> Labor: Sub Total:

588.00 588.00 PA STATE: 35.28

Invoice TOTAL:

Installation Manuals, Flight Line Manuals

FIGURE

ABOVE = I AGREE TO ACCORDING 1

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Date LANCAST	ER AVIONICS,	Uy	ichera or	CRS LI	N7R261N		(**	See Attached Prelim./Hidder	Damage Ins	. ,			<u></u>		ᆁ
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**LANCASTER AVIONICS, INC.** 500-U AIRPORT ROAD

LITITZ, PA 17543 USA

JET AERO, LLC 971 HEILMAN RD. MONTOURSVILLE, PA 17754-7994 USA



INVOICE

Work Order#: 16727 Page #: 1 of 1

Date: Oct-12-2011

Terms: COD Account: JEAER Your PO#: VERBAL

Our TEL: 717-569-1953 Your TEL: 570-435-0064

Tail#: N44YP

A/C Make: CIRRUS DESIGN CORP.

Model: SR20 Serial: 1169

- DETAILS -

WO: 16727 TASK: 1 AV C/W ASPEN SYNTHETIC VISION UPGRADE START: 10/12/2011 FINISH: 10/12/2011

DISCREPANCY: C/W ASPEN SYNTHETIC VISION UPGRADE.

ACTION: UPGRADED EFD1000 S/N 9903 FROM SOFTWARE VERSION 2.2.3 TO VERSION 2.4.1 IAW ASPEN SB# 2011-05A AND

UNLOCKED THE SVT OPTION IAW TN# 2011-10A. UPDATED POH AND PILOT GUIDE AS REQUIRED. OPS CHECKED GOOD.

HOURS: 1.25 LABOR: \$111.25 PARTS/EQUIP/OTHER: \$1,995.00 TASK TOTAL: \$2,106.25

 TASK
 Qty
 Part # \ Serial #
 Description
 Each
 Extended

 1
 1.00 SVT-ASPEN
 SYNTHETIC VISION
 1,995.000
 1,995.00

 Labor:
 111.2

 Parts & Equip:
 1,995.0

Parts & Equip: 1,995.0 Sub Total: 2,106.2 PA STATE: 126.3

Invoice TOTAL: 2,232.6

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														SUB TOTAL	
	MAINTENANCE RELEASE								*YES*	<u>NO</u>	N/A	ſ	PA SALES TAX		
acco	The part and/or component identified above was repaired and inspected in accordance with current Federal Air Regulations, was found airworthy, and is						Preli	minary I	nspection Findings						
Date	approved for return to service.  Date 10-12-11 By James 200						Hidd	en Dam	age Inspection Findings					TOTAL ►	
LAN	LANCASTER AVIONICS, INC.  CRS LN7R261N  Type Log Entry Made:  C M A HELICE				17R261N		(**	See Attached Prelim./Hidden	Damage Insp	. Form)					
Туре	Log Ent	ry Made: C N	011K	AdHESIV	Ε		ш		WHITE/Customer	CANARY/S	Shop Con	U			

DIEGO 7

**JET AERO, LLC** 971 HEILMAN RD. MONTOURSVILLE, PA 17754-7994 USA



#### INVOICE

20993

Work Order#: 16400 Page #: 1 of 2

Date: Jul-26-2011

Terms: COD Account: JEAER Your PO#: VERBAL Our TEL: 717-569-1953 Your TEL: 570-435-0064

Tail#: N44YP

A/C Make: CIRRUS DESIGN CORP.

Model: SR20 **Serial**: 1169

#### DETAILS -

WO: 16400 TASK: 1 AV REPAIR SANDEL HSI START: 06/08/2011 FINISH: 07/26/2011

DISCREPANCY: HSI INTERMITTENTLY HAS COMPASS CARD ERRORS.

ACTION: The following equipment was removed: Sandel SN3308 EHSI System & United 7000C.31 VSI. The following equipment was installed: Aspen EFD1000 Pro PFD System. Installed Aspen EFD1000 Pro PFD IAW Aspen STC# SA10822SC as listed on the AML. All work was accomplished IAW AC 43.13-1B/-2A Chapters 2 & 3, and Aspen Installation Manual p/n 900-00003-001 utilizing manufacturer's supplied hardware. Inserted Aspen Flight Manual Supplement p/n 900-00008-001 in the Aircraft Flight Manual. Inserted Aspen Instructions for Continued Airworthiness p/n 900-00012-001 in Aircraft Flight Manual. Inserted ALL STC required configuration documents in the aircraft maintenance records. Aspen EFD1000 Pro PFD conforms to TSO-C2d, -C3d, -C4c, -C6d, -C8d, -C10b, -C106, and C113 per FAA Acceptance Letter dated 3/14/2008 and Quality Assurance Manual document p/n A-04-101-00 dated 3/3/2008. All wiring/cabling used for installation purposes meets or exceeds the following specifications: (M17/29, and/or M17/60) - coax; (M22759, M27500, and/or M81044) - wire. All circuit breakers used for installation purposes were of the Klixon, Potter/Brumfield, and/or Mechanical Products variety. All of the above installed equipment was functionally tested and was found to perform its intended function with no adverse effects on other aircraft systems. Weight and Balance change recalculated. Equipment list revised.

HOURS: 0.00

LABOR: \$0.00

PARTS/EQUIP/OTHER: \$15,228.00

TASK TOTAL: \$15,228.00

WO: 16400 TASK: 2 AV REPLACE ENCODER AND C/W 2YR IFR CERTS START: 07/25/2011 FINISH: 07/26/2011

DISCREPANCY: REPLACE ENCODER AND C/W 2Y IFR CERTS.

ACTION: REMOVED ACK A30 ENCODER AND INSTALLED NEW TRANSCAL SSD120-30N ENCODER. COMPLIED WITH FAR 91.411 AND FAR 43. APPENDIX E ALT./ENC./STATIC SYS CERT. COMPLIED WITH FAR 91.413 AND FAR 43, APPENDIX F 2YR TRANSPONDER CERT. ALSO UPGRADE GARMIN GTX327 TRANSPONDER S/N 83707608 FROM SOFTWARE VERSION 2.09 TO VERSION 2.10. OPS CHECKED GOOD.

HOURS: 0.00

LABOR: \$0.00

PARTS/EQUIP/OTHER: \$549.00

TASK TOTAL: \$549.00

TASK	Qty	Part #\Serial #	Description	Each	Extended
1	-	14806990	MATE-N-LOK 2 PIN FEMALE (CLEAR)	0.000	0.00
1		14807000	MATE-N-LOK 3 PIN MALE (CLEAR)	0.000	0.00
1		14807010	MATE-N-LOK 3 PIN FEMALE (CLEAR)	0.000	0.00
1	4.00	193-3	HOSE	0.000	0.00
1		1SH-20	SHIELDED WIRE	0.000	0.00
1	6.00	1SH-22	WIRE SHIELDED	0.000	0.00
1	19.00	205089-1	PIN	0.000	0.00
1	27.00	205090-1	PIN	0.000	0.00
1	1.00	205838-1	8-PIN CONNECTOR	0.000	0.00
1	1.00	205841-2	8 PIN MALE CONN	0.000	0.00
1	1.00	225395-1	AMP BNC CONNECTOR MALE	0.000	0.00
1	1.00	225396-1	AMP BNC CONNECTOR FEMALE	0.000	0.00
1	54.00	2SH-22	22 AWG 2SH	0.000	0.00
1	73.00	2SH-22	22 AWG 2SH	0.000	0.00
1	2.00	311-3D	FITTINGS FOR 193 HOSE	0.000	0.00
1	5.00	3506891	MATE-N-LOK SOCKET 24-18 AWG	0.000	0.00
1	3.00	3506901	MATE-N-LOK PIN 24-18 AWG	0.000	0.00
1	6.00	3SH-22	22 AWG 3SH	0.000	0.00
1	6.00	44-P	POLY FLO HOSE	0.000	0.00
1	0.60	60617-1	SOCKET	0.000	0.00
1	9.00	60618-1	PIN	0.000	0.00
1	1.00	7277-2-1	CIRCUIT BREAKER 1A	0.000	0.00
1	1.00	7277-2-71/2	CIRCUIT BREAKER 7.5A	0.000	0.00
1		7301	SWITCH	0.000	0.00
ī		AN365-632A	ELASTIC STOP NUT 6-32	0.000	0.00
ī	1.00	AN822-3D	90 DEGREE ELBOW	0.000	0.00

INVOICE	20993
	2000

Work Order#: 16400 Page #: 2 of 2

Date: Jul-26-2011

	Date: Jul-26-2011	
COUPLING	0.000	0.00
REGULAR FLAT WASHER 6-32	0.000	0.00
TRAY CONNECTOR/BNC	0.000	0.00
PFD	14,270.000	14,270.00
HEAT SHRINK 1/16	0.000	0.00
HEAT SHRINK 1/4	0.000	0.00
HEAT SHRINK 1/8	0.000	0.00
HEAT SHRINK 3/16	0.000	0.00
HEAT SHRINK 3/32	0.000	0.00
HEATSHRINK 3/8	0.000	0.00
STAINLESS C.SUNK 6-32 SCREW 1/2"	0.000	0.00
STAINLESS C.SUNK 6-32 SCREW 3/4"	0.000	0.00
1/4" NYLON INSERT	0.000	0.00
1/4" NYLON NUT & SLEEVE ASSY	0.000	0.00
1/4" MALE CONNECTOR 1/8" PIPE	0.000	0.00
1/4" MALE RUN TEE 1/8" PIPE	0.000	0.00
22 AWG WIRE WHITE	0.000	0.00
REMTEX 1/8"	0.000	0.00
REMTEX 1/4"	0.000	0.00
SONALERT	0.000	0.00
TY-WRAP 8"	0.000	0.00
TY-WRAP 11 3/4"	0.000	0.00
TY-WRAP 8"	0.000	0.00
BLUE 4/40 TERMINAL	0.000	0.00
RED 4/40 TERMINAL	0.000	0.00
BLUE 6-32 TERMINAL (LARGE BARREL)		0.00
RED 6/32 TERMINAL	0.000	0.00
BLUE 8/32 TERMINAL	0.000	0.00
20 AWG BLACK	0.000	0.00
20 AWG RED	0.000	0.00
CHARGES FROM AAS	958.000	958.00
ENCODER	549.000	549.00

Parts & Equip: 15,777.00 Sub Total: 15,777.00 PA STATE: 946.62

Invoice TOTAL: 16,723.62

2.00 AN910-1D 12.00 AN960-6 1.00 DBA-600 1.00 EFD1000 PRO 1.00 HIX116 1.00 HIX14 2.00 HIX18 3.00 HIX316 1 3.00 HIX332 1.00 HIX38 1 1 13.00 MS24693C-28 1 7.00 MS24693C-30 1 8.00 PF259-N 1 8.00 PF261 1 1.00 PF268-2 1 2.00 PF271-2 62.00 RACH-22 1 1 24.00 RTS-142-50 1 23.00 RTS-142-51 1 1.00 sc628 1 60.00 T-18L 1 24.00 T-50I 1 4.00 T-50R 4.00 T440B 1 2.00 T440R 1 3.00 T632B-L 1 1 4.00 T632R 1 2.00 T832B 1 28.00 TEF-20 BLACK 1 10.00 TEF-20 RED 1 1.00 OUTSIDE WORK 2 1.00 SSD120-30N

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E⊃B QUAN.	PART NO.	DESCRIPTION	PRICE UNIT TOTAL			LANCASTER AVIONI	ICS, INC.	OS WORK	_	
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					)	REPART INT. 20° HSI REMOVE SNJ308 Sh 3 INTELL LAMBER SNJ308 Sh	3900, m.20	cating 43	05-150 de 12222992	they det 1/27 451
						INTALL LUANGE SU3308 &	4001, mis-	- Cant. 126 43	05-150 \$ 10223 926,	Fly det of H399
						Calib comps Typ of R	Amp CHE	E ysten	nok to maggi	205. (506)
				_				15. 4 INST	mico ATAN	
				7	~	REPLACE ENCOSER,	<del>2</del>		4 .03 3	-
					}	Transpublic SOF			4 OFDATES	1
						110000000000000000000000000000000000000	10100			
							1			
					hereby a	uthorize the above repair work to	be done alo	ong with the	TOTAL LABOR	3
				nece	essary m	aterial, and hereby grant you and/or ate and fly the airplane herein desc	r your emplo	yees permis- e purpose of	TOTAL PARTS	3
						or inspection. An express mechanic ove airplane to secure the amount o			SHIPPING/HANDLING	à
						ONSIBLE FOR LOSS OR DAMAGE ANE IN CASE OF FIRE, THEFT				
						R CONTROL.	ON ANT OF	5,002	MISC	
				x_					SUB TOTAL	-
	MAINTENA	ANCE RELEASE				*YE	ES* NO	0 <u>N/A</u>	PA SALES TA)	
			ired and inspected in bund airworthy, and is	Prel	iminary I					
approved for retur	rn to service.		59/00		•				TOTAL ▶	
Date 6-6-		James	CRS LN7R261N	""		See Attached Prelim./Hidden Dama				
	_	tesive			(			,		
						WHITE/Customer CA	ANARY/Shop	Сору		

**JET AERO, LLC** 971 HEILMAN RD. MONTOURSVILLE, PA 17754-7994 USA INVOICE

20814

Work Order#: 16392 Page #: 1 of 1

Date: Jun-06-2011

Terms: COD Account: JEAER Your PO#: VERBAL

Our TEL: 717-569-1953 Your TEL: 570-435-0064 Tail#: N44YP

A/C Make: CIRRUS DESIGN CORP.

Model: SR20 **Serial**: 1169

**DETAILS** 

WO: 16392 TASK: 1 AV REPAIR SANDEL HSI START: 06/06/2011 FINISH: 06/06/2011

PART#: SN3308-00-BL MODEL#: SN3308 SER#: 3900

DISCREPANCY: INTERMITTENTLY HAS 90 DEGREE COMPASS CARD ERROR.

ACTION: RAMP CHECKED, COULD NOT DUPLICATE REPORTED MALFUNCTION. RESEATED HSI IN MOUNTING TRAY. ACCESSED FLUX DETECTOR AND CHECKED CONNECTOR PIN TENSION. PIN TENSION CHECKS GOOD. PERFORMED MINOR CALIBRATION AND FLIGHT

CHECKED SLAVED COMPASS OPERATION. FLIGHT CHECKS GOOD.

LABOR: \$178.00 PARTS/EQUIP/OTHER: \$0.00 TASK TOTAL: \$178.00

WO: 16392 TASK: 2 NC REPAIR #2 GNS430W START: 06/06/2011 FINISH: 06/06/2011

MODEL#: GNS430W

DISCREPANCY: REPORTED INOP.

ACTION: REBOOTED UNIT & TESTED TERRAIN CARD. SYSTEM RAMP CHECKS GOOD.

HOURS: 0.00 PARTS/EQUIP/OTHER: \$0.00 LABOR: \$0.00

TASK TOTAL: \$0.00

178.00 Labor:

178.00 Sub Total: 10.68 PA STATE:

188.68

Invoice TOTAL:

**JET AERO, LLC** 971 HEILMAN RD. MONTOURSVILLE, PA 17754-7994 USA **INVOICE** 

20134

Work Order#: 15867

Page #: 1

Date: Oct-28-2010

Terms: COD Account: JEAER

Your PO#:

Our TEL: 717-569-1953 Your TEL: 570-435-0064

Tail#: N44YP

A/C Make: CIRRUS DESIGN

Model: SR20 **Serial**: 1169

- DETAILS -

START: 10/28/2010 FINISH: 10/28/2010 WO: 15867 TASK: 1 AV REPAIR SANDEL HSI

PART#: SN308-00-BL MODEL#: SN3308

DISCREPANCY: SANDEL HSI INTERMITTENTLY HAS 60 - 90 COMPASS CARD ERROR. PROBLEM HAS OCCURED EVER SINCE THE

DISPLAY LAMP WAS REPLACED.

ACTION: OPS CHECKED AND VERIFIED A +25 DEGREE EAST ERROR AND -15 DEGREE WEST ERROR. RESEATED SANDEL HSI IN RACK. REPOSITIONED AND RECALIBRATED FLUX DETECTOR. SLAVED COMPASS SYSTEM FINAL CHECKS GOOD WITH A +1.5 NORTH ERROR AND

-1.5 DEGREE WEST ERROR.

HOURS: 2.00

LABOR: \$178.00

PARTS/EQUIP/OTHER: \$0.00

TASK TOTAL: \$178.00

178.00 Labor: Sub Total: 178.00 PA STATE: 10.68

Invoice TOTAL:

188.68 Your new Invoice total with 3% discount

on Labor applied in \$ 183.02

If we receive payment via Cash/Check by JAM RECEIPT

Pard Church

	9	MAIL	ERIAL USED				
JOB	QUAN.	PART NO.	DESCRIPTION	UNIT PRI	CE TOTAL	LANCASTER AVIONICS,	
						LANCASTER AIRPORT	
						500-U AIRPORT ROAD	
						LITITZ, PA 17543	
					<b> </b>	717-569-1953 FAX 717-569-1722 JEAEL	1
						NAME Jet Aero LLC REC'D AM DATE 10/28	100
						ADDRESS PROMISED AM CUSTOMERS	ORDER NO.
						PM Pers	
						CITY TERMS ORDER WE	
						AIRCRAFT MAKE/MODEL/SERIAL NUMBER HOBBS PHONE REGISTRATION N	
						CITTUS 1634.5 N 944	0
		^				IOD INITIAL DEPOSIT MOTEURING	ABOR HARGE
						1 SK Resented Sandel; Adjusted the Hux	
						Defector and hecalisated Compass	
1						System Rup tel OKer. (D)	
╟─	<del>                                     </del>				1	STET - Calibration on Sandal 7250 R - 15° west	
⊩-					<b> </b>	- W2.1 - 1.5 W	
<b> </b>	-				-		
					<b> </b>		
						_   -   -   -   -   -   -   -   -   -	
						I hereby authorize the above repair work to be done along with the TOTAL LABOR	
						necessary material, and hereby grant you and/or your employees permis-	
						testing and/or inspection. An express mechanic's lien is hereby acknowl-	
						edged on above airplane to secure the amount of repairs thereto.  SHIPPING/HANDLING	
						NOT RESPONSIBLE FOR LOSS OR DAMAGE TO PLANE OR ARTICLES LEFT IN PLANE IN CASE OF FIRE, THEFT OR ANY OTHER CAUSE	
						BEYOND OUR CONTROL. MISC.	
					7	X SUB TOTAL	
			ANCE RELEASE			*YES* NO N/A PA SALES TAX	-
acco	rdance	nd/or component identific with current Federal Air	ed above was repai Regulations, was <u>fo</u>	red and inspund airworth	pected in large	Preliminary Inspection Findings	
appre	oved for	return to service.		55	フ	Hidden Damage Inspection Findings □ □ TOTAL ►	
Date	CASTER	28-10 RAVIONICS, INC		CRS L	N7R261N	(**See Attached Prelim./Hidden Damage Insp. Form)	
		Chu	musta Alk	ù		( See Alleried From Strade Ballage Hep. Form)	
II .		T.	THE CHART CHART CONTRACT	-		WHITE/Customer CANARY/Shop Copy	