

# WEIGHT AND BALANCE EQUIPMENT LIST REVISION

## AERO-PRO AVIONICS

10800 Middle Ave.

Hangar D2

Elyria, OH 44035

Phone/Fax: (440) 458-4206

FAA CRS # OQGR779X

Customer

Address

BRAMITCH LLC

11611 GATE POST LANE, CHARDIN, OH 44024

Work Order
A2304
Date
07/16/16

Aircraft Make	CIRRUS
Aircraft Model	SR 22
Aircraft S/N	1134
Registration	N218X

This document <u>SUPERCEDES</u>	Previous Weight & Balance Dated	Gross Weight	Useful Load	Empty Weight	CG	Moment
the following Weight & Balance:	08/17/14	3400	1085.06	2314.94	138.35	320268.134

### INSTALLED EQUIPMENT

MFG	Model Number	Description	Part Number	Serial Number	Weight	Arm	Moment
AVIDYNE	AMX 240	AUDIO PANEL	200-00253-000	B01283	1.8	121.50	218.7
AVIDYNE	IFD 540	GPS/NAV/COM	700-00182-000	M154174706	7	122.00	854
AVIDYNE	AXP 322	TRANSPONDER	00745-00-05	4235	0.9	114.00	102.6
AVIDYNE	MLB 100	ADS-B RCVR	200-0011-02-09	<del>15510008</del>	1.2	124.00	148.8
			EXCHANGE 1616 0012				

### REMOVED EQUIPMENT

MFG	Model Number	Description	Part Number	Serial Number	Weight	Arm	Moment
Garmin	GMA 340	AUDIO PANEL	011-00401-10	96270712	1.5	121.50	182.25
Garmin	GNS 430W	GPS/NAV/COM	011-01060-40	97122775	5.00	121.00	605
Garmin	GTX 327	TRANSPONDER	011-00490-00	83717952	1.6	124.9	199.84

Revised and Updated  
Weight and Balance

Gross Weight	New Empty Weight	New Useful Load	Total Change	New CG	New Moment
3400	2317.74	1082.26	2.8	138.33	320605.144

Completed By:

MIKE BERGER, INSPECTOR



DATE: 07/16/16

**AIRCRAFT Weight & Balance Equipment List Revision**

<b>AIRCRAFT MODEL:</b> Cirrus SR-22	<b>SERIAL</b> 1134	<b>REGISTRATION:</b> N218X
<b>REGISTERED OWNER:</b> BRAMITCH LLC		<b>DATE:</b> 27-Aug-2014
<b>ADDRESS:</b> 11611 Gate Post Lane	<b>PLACE:</b> BTP	
Chardin, OH 44024	<b>FLIGHT:</b> 727.2	<b>HM:</b> 1267.3

Old Wt. & Balance	Empty Weight	TARE	NET WEIGHT	ARM	MOMENT
12/3/2008	2317.7500	0	2317.7500	138.5000	321008.3800

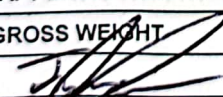
**Removed Equipment**

Manufacturer	Description	Part/Ser Number	Wt Change	ARM	MOMENT
BRS	Rocket Motor	15047-001	4.93	231.4000	1140.8020
<b>Removed Totals:</b>			2312.8200	138.3020	319867.5780

**Installed Equipment**

Manufacturer	Description	Part/Ser Number	Wt. Change	ARM	MOMENT
BRS	Rocket Motor	29504-002	1.3400	231.4000	310.0760
Cirrus Design	Elec. Wiring	N/A	0.7800	116.0000	90.4800
<b>Installed Totals:</b>			2314.9400	138.3484	320268.1340
			<b>New Empty Wt.</b>		
<b>NEW AIRCRAFT BASIC TOTALS</b>			2314.9400	138.3484	320268.1340

**NOTES**


<b>NEW AIRCRAFT BASIC WEIGHT</b>	2314.94	LB.	<b>NEW BASIC C.G.</b>	138.3484	IN.
<b>AIRCRAFT GROSS WEIGHT</b>	3400.0	LB.	<b>NEW USEFUL LOAD</b>	1085.060	LB.
Signature 	Tyler Roche		Date: 8/27/14		

**AIRQUEST AVIATION**

AirQuest Aviation  
485 Airport Road  
Butler, PA 16001  
CRS Q3ER924K

Tail Number: N218X

Date: 12/3/2008

Prepared By:  
E.W.S.LTD  
525 Sunset Blvd  
Wadsworth, OH 44281

Aircraft Make: Cirrus      Model: SR22      Serial No: 1134      TacTime: 479

Registered Owner: BRAMITCH LLC      Address: 11611 Gate Post LN  
Chardin, OH 44024

Max WT: As received: Date of previous WT/Bal 7-17-2008      Useful Load      EW      EWCG  
1076.55      2323.45      138.45  
Moment  
321879.97

	Weight	Arm	Moment
Remove Starter	15	93	1395.
Install Sky Tec starter	9.3	93	864.9

X as caculated	Moment 321008.38	New Empty wt CG	New Usefull Load
	Weight 2317.75	138.5	1082.25

E.W. Steward      A&P2835663



### Aircraft Weight and Balance Revision

Tail Number: <b>N218X</b>		Date: 07-17-2008	
Prepared by: QUALITY AVIONICS, INC 40 OAKLEY-KELLY DR MERCER, PA 16137		Work Order No: 0708311	
		Type Certificate Data No:	
Aircraft Make: CIRRUS	Model: SR22	Serial No: 1134	Time: 417.3 HOBBS
Registered Owner: BRAMITCH LLC		Address: 11611 GATE POST LN CHARDIN, OH 44024	
Maximum Weight 3400	CG Range FWD AFT		
As Received; Date of Previous Weight and Balance: 10-22-1004	Useful Load: 1077	EW: 2323	EWCG: 138.5
Moment: 321774			
Notes: THIS WEIGHT AND BALANCE IS PREDICATED UPON THE INFORMATION IN THE MANUFACTURER'S FAA APPROVED FLIGHT MANUAL.			
	<b>Weight</b>	<b>Arm</b>	<b>Moment</b>
REMOVED GARMIN GA56 GPS ANTENNA #1	-0.4	136.2	-54.48
REMOVED GARMIN GA56 GPS ANTENNA #2	-0.4	110.3	-44.12
INSTALLED GARMIN GA35 WAAS ANTENNA #1	0.5	138	69.00
INSTALLED GARMIN GA35 WAAS ANTENNA #2	0.5	200.0	100.00
INSTALLED FLIGHT TIMER	0.25	142.3	35.58
	0.00	0.00	0.00
	0.00	0.00	0.00
	0.00	0.00	0.00
	0.00	0.00	0.00
	0.00	0.00	0.00
X As Calculated	Moment 321879.97	<b>New Empty Weight CG</b>	<b>New Useful Load</b>
As Weighed	Weight 2323.45	138.54	1076.55
Signature <i>Wendy K. Moore</i>			
Repair Agency QU8R488X or License No:			

Supplies

## Delivered Weight Data & Equipment List

### Model SR22

<b>Serial Number:</b>	<b>1134</b>
<b>Registration Number:</b>	<b>N218X</b>
<b>Basic Empty Weight:</b>	<b>2323 lb</b>
<b>Total Moment/1000:</b>	<b>321.774</b>
<b>Center of Gravity:</b>	<b>F.S.138.5 or 11.4 MAC</b>
<b>Parachute Canopy Color:</b>	<b>Orange / White</b>

The following pages list required, standard, and optional equipment, as well as gives the weight and arm of each listed item. This listing represents the airplane and all options available at the time of delivery and does not include any equipment installed after delivery.

#### Note:

Not all optional equipment in this listing was installed in the above serial number airplane. Equipment listed as optional but not installed in the airplane is indicated by a hyphen (-) in the quantity column for that piece of equipment.

#### ATA - Item:

Each item in the listing is provided a unique number. The first two digits of the number represent the ATA or GAMA Chapter reference number. These numbers are used industry wide and in the Cirrus Design SR22 Maintenance Documentation to locate items in the Maintenance Manuals and or Parts Catalogs. The two digits following the hyphen are sequence numbers for each item in that chapter.

**Description:**

This is the component, assembly, or installation name.

**Sym:**

Items in this listing are coded by a symbol indicating the status of the item. These codes are:

**C** Required item for FAA Certification.

**S** Standard equipment. Most standard equipment is applicable to all airplanes. Some equipment may be replaced by optional equipment.

**O** Optional equipment. Optional equipment may be installed in addition to or to replace standard equipment.

**Qty:**

The quantity of the listed item in the airplane. A hyphen (-) in this column indicates that the equipment was not installed

**Part Number**

This is the Cirrus Design Part Number for the component, assembly, or installation

**Unit Wt**

The weight, in pounds, of one each of the listed item.

**Arm**

The arm, in inches, of the listed item.

ATA / Item	Description	Sym	Qty	Part Number	Unit Wt	Arm
<b>22</b>	<b>AutoFlight</b>					
22-01	Sys 55X Autopilot Prgmmr	S	1	14779-002	3.0	123.3
22-02	Altitude Transducer	S	1	12722-001	0.2	112.4
<b>23</b>	<b>Communications</b>					
23-01	Radios, See 34 – Navigation	-	-	-	-	-
23-02	Com 1 Antenna	C	1	12740-001	0.5	178.5
23-03	Com 2 Antenna	S	1	12741-001	0.5	204.6



ATA / Item	Description	Sym	Qty	Part Number	Unit Wt	Arm
<b>24</b>	<b>Electrical Power</b>					
24-01	Alternator 1	C	1	646845	12.3	61.8
24-02	Alternator 2	C	1	13565-001	5.7	91.0
24-03	MCU	C	1	14600-002	7.5	98.0
24-04	Volt / Ammeter	C	1	11240-001	0.8	119.7
24-05	Battery 1	C	1	50366-001	28.0	96.0
24-06	Battery 2	C	1	14214-002	11.5	230.0
<b>25</b>	<b>Equipment &amp; Furnishings</b>					
25-01	Emergency Locator Transmitter & Batteries	C	1	20220-001	3.6	228.8
25-02	Fwd Seat & Restraint Inst. (Leather: add 0.4 lb each)	C	2	13499-001	27.0	149.3
25-03	Rear Seat Installation (Leather: add 0.4 lb each)	C	2	12053-002	21.8	185.0
25-04	Rear Seat Restraint	C	2	12491-001	2.3	185.0
<b>26</b>	<b>Fire Protection</b>					
26-01	Portable Fire Extinguisher	C	1	12533-003	1.5	137.6
<b>27</b>	<b>Flight Controls</b>					
27-01	Flap Actuator, Modified	C	1	11787-002	4.4	173.9
27-02	Roll Trim Cartridge Assy	C	1	15660-001	0.4	161.8
27-03	Roll Trim Motor Assembly	C	1	12546-001	1.3	159.8
27-04	Pitch Trim Cartridge Assy	C	1	14902-003	0.4	310.9
27-05	Pitch Tim Motor Assy	C	1	14832-001	1.3	303.5
27-06	Yaw Trim Cartridge Assy	C	1	11898-002	0.4	106.2
<b>28</b>	<b>Fuel</b>					
28-01	Fuel Quantity Indicator	C	1	13557-001	0.8	138.0
28-02	Fuel Selector Valve	C	1	11627-001	1.8	140.8
28-03	Gascolator	C	1	14069-001	1.0	98.5
28-04	Fuel Cap Assy	S	2	10052-001	0.3	152.3
28-05	Fuel Level Sender (OTBD)	C	2	13467-001/-002	0.3	157.8
28-06	Fuel Level Sender (INBD)	C	2	13467-003/-004	0.3	157.8

ATA / Item	Description	Sym	Qty	Part Number	Unit Wt	Arm
<b>30</b>	<b>Ice &amp; Rain Protection</b>					
30-01	Propeller Slinger Ring	O	1	15321-001	1.5	55.0
30-02	De-Icing Fluid Reservoir	O	1	15269-002	4.2	181.0
30-03	Metering Pump	O	1	15165-013	4.5	176.0
<b>31</b>	<b>Indicating &amp; Recording</b>					
31-01	Annunciator Panel	C	1	15262-001	0.3	117.2
31-02	Hourmeter	S	1	12135-001	0.1	142.3
<b>32</b>	<b>Landing Gear</b>					
32-01	Main Landing Gear Installation	C	2	13287-001/002	34.0	157.5
32-02	Main Landing Gear Fairing Installation	S	2	13420-001	12.5	157.5
32-05	Brake Assembly	C	2	13399-103	3.2	157.5
32-06	Main Wheels	C	2	13399-101	6.3	157.5
32-07	Main Tire	C	2	14075-002	6.3	157.5
32-08	Main Tube	C	2	14076-002	1.0	157.5
32-09	Nose Landing Gear Installation	C	1	13389-001	35.0	86.0
32-10	Nose Wheel	C	1	12798-001	4.5	70.0
32-11	Nose Tire 5.00 x 5	C	1	14075-001	4.3	70.0
32-12	Nose Tire Tube	C	1	14076-001	1.0	70.0
32-13	Nose Gear Fairing & Pant	S	1	14291-101	0.9	78.0
32-14	Brake Master Cylinder	C	4	14269-001	0.6	104.5
32-15	Brake Fluid Reservoir	C	1	12006-001	0.4	98.1
<b>33</b>	<b>Lights</b>					
33-01	L/R Strobe/Nav Lights	C	2	50626-001/-002	0.6	158.0
33-02	Strobe Power Supply (2)	C	2	50625-001	1.7	158.0
33-03	Landing Light Installation	S	1	20248-001	1.9	80.0
<b>34</b>	<b>Navigation &amp; Pitot Static</b>					
34-01	Avidyne FlightMax MFD	O	1	14751-001	6.4	121.8
34-02	Avidyne FlightMax PFD	O	1	15222-001	12.0	115.5
34-03	Altimeter	C	1	12102-001	1.1	116.1
34-04	TAS Indicator	C	1	13568-002	0.7	116.9
34-05	Magnetic Compass	C	1	12451-002	0.3	132.7
34-06	Attitude Gyro	C	1	13459-002	2.2	114.5
34-07	Marker Beacon Antenna	S	1	12743-001	0.6	200.0



ATA / Item	Description	Sym	Qty	Part Number	Unit Wt	Arm
34-08	GPS 1 Antenna	C	1	12744-001	0.4	136.2
34-09	GPS 2 Antenna	S	1	12744-001	0.4	110.3
34-10	Transponder Antenna	C	1	12739-001	0.1	105.0
34-11	VOR/LOC Antenna	C	1	12742-001	0.4	331.0
34-12	Turn Coordinator, Modified	C	1	11891-001	1.8	118.0
34-13	GMA 340 Audio Panel	S	1	12717-050	1.5	121.5
34-14	GNS 420 (GPS/COM/NAV)	O	-	12718-004	5.0	121.0
34-15	GNS 430 (GPS/COM/NAV)	C	1	12718-051	5.0	121.0
34-16	GNS 430 (GPS/COM/NAV)	O	1	12718-051	5.0	122.4
	<b>Engine Monitoring Option</b>					
34-17	• Monitor Sensor Unit	O	1	14843-001	1.1	118.0
34-18	• Monitor Harness	O	1	15030-001	0.9	92.0
34-19	• Monitor Cabin Harness	O	1	15032-001	2.0	108.0
	<b>Sky Watch Option</b>					
34-20	• Sky Watch Inverter	O	1	14484-001	0.5	118.0
34-21	• Sky Watch Antenna nstl	O	1	14480-001	2.3	150.5
34-22	• Sky Watch Track Box	O	1	14477-050	10.0	140.0
	<b>Stormscope Option</b>					
34-23	• Processor	O	1	12745-050	1.7	199.0
34-24	• Antenna	O	1	12745-070	0.9	191.0
	<b>Transponder Option</b>					
34-25	• Mode A/C Transponder	C	1	13587-001	1.6	124.9
34-26	• Mode S Transponder	O	-	15966-050	2.6	121.0
	<b>TAWS Option</b>					
34-27	• KGP 560 Processor	O	1	15963-001	1.3	117.0
	<b>XM Weather Option</b>					
34-28	• XM Weather Receiver	O	1	16121-001	1.7	114.0
<b>61</b>	<b>Propeller</b>					
61-01	Hartzell Propeller Installation	C	1	15319-00X	79.8	48.0
61-02	McCaughey Propeller Installation	O	-	15825-00X	78.0	50.0
61-03	Propeller Governor	C	1	15524-001	3.2	61.7
<b>71</b>	<b>Power Plant</b>					
71-01	Upper Cowl	C	1	20181-001	10.5	78.4
71-02	Lower Cowl	C	1	20182-001	5.4	78.4
71-03	Engine Baffling Installation	C	1	15460-001	10.7	78.4

ATA / Item	Description	Sym	Qty	Part Number	Unit Wt	Arm
<b>72</b>	<b>Engine</b>					
72-01	Engine	C	1	IO550N27B	414.5	76.5
72-02	Engine Mount Assembly	C	1	15546-003	22.0	76.5
72-03	Induction Filter	C	1	15672-001	0.4	62.9
72-04	Reiff Heater	O	-	L-6	1.9	76.0
<b>73</b>	<b>Engine Fuel</b>					
73-01	Engine Driven Fuel Pump	C	1	634530M	3.2	93.7
73-02	Electric Fuel Pump Assy.	C	1	11839-001	2.3	97.7
73-03	Fuel Pressure Switch Assy.	C	1	13598-001	0.4	67.8
<b>74</b>	<b>Engine Ignition</b>					
74-01	Spark Plugs	C	12	RHB32E	0.3	78.4
74-02	Magnetos (L & R)	C	2	10-500556-1	11.5	74.5
74-03	Ignition Switch Installation	C	1	11915-002	0.5	123.0
<b>77</b>	<b>Engine Indicating</b>					
77-01	Tachometer	C	1	13559-001	0.5	118.7
77-02	EGT/CHT Gage	C	-	12616-001	0.5	119.0
77-03	Man Press/Fuel Flow Gage	C	1	13558-001	0.5	118.8
77-04	Oil Temp / Pressure Gage	C	1	12619-001	0.5	119.2
<b>78</b>	<b>Engine Exhaust</b>					
78-01	Heater Muffler	S	1	14837-001	7.2	87.0
78-02	LH Muffler	S	1	14836-001	2.8	86.0
78-03	Tailpipe	S	2	20150-001	2.9	99.0
<b>79</b>	<b>Oil</b>					
79-01	Engine Oil Cooler	S	1	10281A	7.8	90.0
79-02	Oil Filter	S	1	CH48108	1.5	93.4
<b>80</b>	<b>Starting</b>					
80-01	24-volt Starter	S	1	ES-646275-1	15.0	93.0
<b>95</b>	<b>Special Equipment</b>					
95-01	Packed Parachute (CAPS)	C	1	20331-001	54.0	235.5
95-02	Airplane Flight Manual	C	1	13772-001	1.2	-

# EQUIPMENT LIST REVISION

**AERO-PRO AVIONICS, LLC**  
 10800 Middle Ave.  
 Hangar D2  
 Elyria, OH 44035  
 Phone/Fax: (440) 458-4206  
 FAA CRS # OQGR779X

Customer  
Address

BRAMITCH LLC  
 11611 GATE POST LN, CHARDON, OH 44024

Work Order  
A2264  
Date  
01/14/16

Aircraft Make  
CIRRUS  
Aircraft Model  
SR 22  
Aircraft S/N  
1134  
Registration  
N218X

## INSTALLED EQUIPMENT

MFG	Model Number	Description	Part Number	Serial Number				
AVIDYNE	IFD 440	WAAS MFD	700-00179-00	M154476015				

## REMOVED EQUIPMENT

MFG	Model Number	Description	Part Number	Serial Number	Weight	Arm	Moment
GARMIN	GNS 430W	WAAS MFD	011-01060-40	97122773			

Completed By: Mike Berger, Inspector

DATE: 01/14/16