

## Aircraft Weight and Balance

Tail Number: <b>N389SR / N461E</b>		Date: 2-10-2022	
Prepared by: <b>Kevin Pierron</b>		Work Order No:	
		Type Certificate No:	
Aircraft Make: Cirrus	Model: SR22	Serial No: 2717	Hours:
Registered Owner: Steel Aviation		Address: 53 North St Phillipsburg, Ohio 45354	
Maximum Weight	3400.00	CG Range	FWD                      AFT
As Received; Date of Previous Weight and Balance: 9-1-2007			
<b>Useful Load:</b>	1091.00	<b>EW:</b>	2309.00 <b>EWCG:</b> 138.10 <b>Moment:</b> 318872.90

**Notes:** This is a re-calculation of the aircraft weight and balance due to errors in previous calculations and omissions. N Number changed from N389SR to N461E

Items Added or Removed	Weight	Arm	Moment
GNS 430 Removed 8-4-2011	-5.00	121.00	-605.00
GNS 430 Removed 8-4-2011	-5.00	122.40	-612.00
Comant Diplexer Removed 8-4-2011	-0.20	115.00	-23.00
	0.00	0.00	0.00
GTN 650 Installed 8-4-2011	7.00	121.00	847.00
GTN 650 Installed 8-4-2011	7.00	122.40	856.80
Mini Circuits Splitter Installed 8-4-2011	0.15	17.25	2.59
	0.00	0.00	0.00
Kelly Aero AC System installed 1-31-2020	52.00	241.80	12573.60
	0.00	0.00	0.00
Removed 8-26-2020	0.00	0.00	0.00
GMA 340	-1.50	121.50	-182.25
GTN 650	-7.00	122.40	-856.80
GTN 650	-7.00	121.00	-847.00
GTX 345	-3.40	124.90	-424.66

**(Continued on next page)**







**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>21</b>	<b>Air Conditioning</b>					
21-01	Blower Fan Only	O	1	20970-001	7.3	133.0
21-02	Compressor	O	-	21119-003	15.0	93.1
21-03	Condenser Assembly	O	-	21209-001	17.0	132.8
21-04	Evaporator Assembly	O	-	21114-005	17.5	199.5
<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	646843	12.3	61.8
24-02	Alternator 2	C	1	13565-001	5.7	91.0
24-03	MCU	C	1	19910-001	9.8	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	50979-011	11.5	230.0
<b>25</b>	<b>Equipment &amp; Furnishings</b>					
25-01	Emergency Locator Transmitter & Batteries (121.5 MHz)	O	-	20220-001	3.6	228.8
25-02	Emergency Locator Transmitter & Batteries (406 MHz)	C	1	17190-100	3.4	229.5
25-03	Fwd Seat & Restraint Inst. (Leather: add 0.4 lb each)	C	2	20907-003/-004	27.0	149.3
25-04	Rear Seat Installation (Leather: add 0.4 lb each)	C	2	12053-002	21.8	180.0
25-05	Rear Seat Restraint	C	2	12491-001	2.3	180.0
<b>26</b>	<b>Fire Protection</b>					
26-01	Portable Fire Extinguisher	C	1	12533-003	1.5	118.4
<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	15560-002	0.4	310.9
27-05	Pitch Tim Motor Assy	C	1	11794-004	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	13557-002	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	18051-001	0.4	154.0
28-05	Fuel Level Sender (OTBD)	C	2	18484-001	0.3	151.7
28-06	Fuel Level Sender (INBD)	C	2	18483-001	0.3	155.7
<b>30</b>	<b>Ice &amp; Rain Protection</b>					



ATA / Item	Description	Sym	Qty	Part Number	Unit Wt	Arm
30-01	Propeller Slinger Ring	O	1	15321-001	1.5	55.0
30-02	De-Icing Fluid Reservoir	O	1	Integral to Wing	9.2	148.4
30-03	Metering Pump	O	1	17351-001	5.0	181.3
<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	18560-001/ 002	34.0	157.5
32-02	Main Landing Gear Fairing Installation	S	2	18143-001/002	14.3	157.5
32-03	Brake Assembly	C	2	17122-103	3.2	157.5
32-04	Main Wheels	C	2	17122-101	7.8	157.5
32-05	Main Tire	C	2	14075-006	6.3	157.5
32-06	Main Tube	C	2	14076-002	1.0	157.5
32-07	Nose Landing Gear Installation	C	1	18100-001	35.0	77.0
32-08	Nose Wheel	C	1	12798-001	4.5	71.8
32-09	Nose Tire 5.00 x 5	C	1	14075-003	4.3	71.8
32-10	Nose Tire Tube	C	1	14076-001	1.0	71.8
32-11	Nose Gear Fairing & Pant	S	1	18303-001	5.2	78.0
32-12	Brake Master Cylinder	C	4	14269-001	0.6	104.5
32-13	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	17140-001/002	0.6	161.8
33-02	Strobe Power Supply (2)	C	2	14286-002	1.7	147.8
33-03	Landing Light Installation	S	1	20248-004	1.9	80.0
33-03	Recognition Light Installation	S	1	18285-001/002	0.4	138.5
<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
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





ATA / Item	Description	Sym	Qty	Part Number	Unit Wt	Arm
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>EMax Engine Monitoring</b>					
34-17	• Data Acquisition Unit	O	1	16692-001	2.0	118.0
34-18	• Monitor Cabin Harness	O	1	16695-005	2.0	108.0
	<b>Sky Watch Option</b>					
34-19	• Sky Watch Inverter	O	1	14484-001	0.5	118.0
34-20	• Sky Watch Antenna nstl	O	1	14480-001	2.3	150.5
34-21	• Sky Watch Track Box	O	1	14477-050	10.0	140.0
	<b>Stormscope Option</b>					
34-22	• Processor	O	1	12745-050	1.7	199.0
34-23	• Antenna	O	1	12745-070	0.9	191.0
	<b>Transponder Option</b>					
34-24	• Mode A/C Transponder	C	1	13587-001	1.6	124.9
34-25	• Mode S Transponder	O	-	15966-050	2.6	121.0
	<b>TAWS Option</b>					
34-26	• KGP 560 Processor	O	1	15963-001	1.3	117.0
	<b>XM Satellite Options</b>					
34-27	• XM WX / Radio Receiver	O	1	16121-001	1.7	114.0
34-28	• XM Radio Remote Control	O	1	16665-501	0.2	149.3
<b>35</b>	<b>Oxygen</b>					
35-01	Bottle Assembly - Empty	O	-	100N0020-4	17.4	262.3
	Full				23.8	265.3
<b>61</b>	<b>Propeller</b>					
61-01	Hartzell Propeller Installation	C	1	15319-00X	79.8	48.0
61-02	Hartzell Composite Propeller Installation	O	-	18974-001	67.2	48.0
61-02	McCauley Propeller Installation	O	-	15825-00X	78.0	50.0
61-03	MT Propeller	O	-	18606-00X	56.2	48.6
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	20181-003	10.5	78.4
71-02	Lower Cowl LH	C	1	20182-006	5.4	78.4
71-03	Lower Cowl RH	C	1	18396-001	5.4	78.4

SYSTEMS  
DESCRIPTION



ATA / Item	Description	Sym	Qty	Part Number	Unit Wt	Arm
71-03	Engine Baffling Installation	C	1	15460-001	10.7	78.4
<b>72</b>	<b>Engine</b>					
72-01	Engine	C	1	14057-00X	414.5	76.5
72-02	Engine Mount Assembly	C	1	16546-001	22.0	76.5
72-03	Induction Filter	C	1	50207-001	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	655921-1A5	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	11915-003	0.5	123.0
<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	20516-001	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>81</b>	<b>Turbines-SA10588SC &amp; SE10589SC</b>					
81-01	LH Turbocharger	C	-	ETI-SR22-2000	15.0	84.0
81-02	RH Turbocharger	C	-	ETI-SR22-1300	15.0	84.0
81-03	LH Intercooler	C	-	ETI-G2-500-1	5.0	83.0
81-04	RH Intercooler	C	-	ETI-G2-500-2	5.0	83.0
81-05	Lower Cowl Modification	C	-	NA	0.8	81.0
81-06	Air Filter Box and Retainer	C	-	NA	1.5	63.0
<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	-