



Freedom Aviation

F-31-WB  
Rev. Org  
2-28-15

## AIRCRAFT WEIGHT & BALANCE

Registration #: N8143  
Make: CIRRUS  
Model: SR22  
Serial #: 0678

Repair Station: BGSR439C  
Work Order: F17-2180  
Date: 3-3-2017

Previous weight and balance dated 9-8-2014.

### Aircraft Weight

Actual Weight	Scale Reading	Arm	Moment
Left Main			
Right Main			
Nose			-
Previous W&B			
<b>TOTAL</b>			

Items Added or Removed	Weight	Arm	Moment
<b>Totals from above or Previous W&amp;B</b>	2364.5	139.24	329231.70
Removed Concord Battery Model RG24-15M	-29.5	96.0	-2832.0
Installed Gill Battery Model G-243	28.0	96.0	2688.0
<b>New Empty Weight/C.G./Moment</b>	2363.0	139.27	329087..70

Aircraft Maximum Weight:..... 3400.0 lbs.

Aircraft useful Load..... 1037.0 lbs.

Prepared By: Joe Leonard, CRS# BGSR439C

Signature: \_\_\_\_\_

ATA / Item	Description	Sym	Qty	Part Number	Unit Wt	Arm
<b>22</b>	<b>AutoFlight</b>					
	<b>Avionics Config "A"</b>					
22-01	• Sys 30 Autopilot/Turn Cord	S	-	12107-002	2.2	115.8
22-02	• Altitude Transducer	S	-	12722-001	0.2	112.4
22-03	• Pitch Computer	S	-	12726-002	1.0	133.3
	<b>Avionics Config "B"</b>					
22-04	• Sys 55X Autopilot Prgmmr	S	1	13560-001	3.0	123.3
22-05	• 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
<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	13470-001	7.5	98.0
24-04	Volt / Ammeter	C	1	12618-001	0.8	119.7
24-05	Battery 1	C	1	50366-001	28.0	96.0
24-06	Battery 2	C	1	50979-001	11.5	230.0
<b>25</b>	<b>Equipment &amp; Furnishings</b>					
25-01	Emergency Locator Transmitter & Batteries	C	1	12756-001	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	12553-003	2.3	185.0
<b>26</b>	<b>Fire Protection</b>					
26-01	Portable Fire Extinguisher	C	1	12533-001	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	10780-004	0.4	161.8

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27-03	Roll Trim Motor Assembly	C	1	12546-001	1.3	159.8
27-04	Pitch Trim Cartridge Assy	C	1	10680-004	0.4	310.9
27-05	Pitch Trim Motor Assy	C	1	11794-004	1.3	303.5
27-06	Yaw Trim Cartridge Assy	C	1	11898-001	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
<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	15269-001	4.2	181.0
30-03	Metering Pump	O	1	15165-004	4.5	176.0
<b>31</b>	<b>Indicating &amp; Recording</b>					
31-01	Annunciator Panel	C	1	11837-003	0.3	117.2
31-02	Hourmeter	S	1	50485-001	0.1	142.3
<b>32</b>	<b>Landing Gear</b>					
32-01	Main Gear Assembly	C	2	13877-001/-002	34.0	157.5
32-02	Main Gear Strut Fair Upper	S	2	13397-001/-002	4.1	157.5
32-03	Main Gear Strut Fair Lower	S	2	13443-001/-002	4.2	157.5
32-04	Main Gear Fairing Wheel	S	2	14196-001/-002	4.2	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 Gear Assembly	C	1	13388	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

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<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	S	1	12580-001	1.9	80.0
<b>34</b>	<b>Navigation &amp; Pitot Static</b>					
	<i><b>MFD Option</b></i>					
34-01	• Avidyne FlightMax MFD	O	1	700-00004-XXX	6.4	121.8
	<i><b>PFD Option</b></i>					
34-02	• Avidyne FlightMax PFD	O	1	15222-001	12.0	115.5
	<i><b>Engine Monitoring Option</b></i>					
34-03	• Monitor Sensor Unit	O	1	14843-001	1.1	118.0
34-04	• Monitor Harness	O	1	15030-001	0.9	92.0
34-05	• Monitor Cabin Harness	O	1	15032-001	2.0	108.0
	<i><b>Sky Watch Option</b></i>					
34-06	• Sky Watch Inverter	O	1	14484-001	0.5	118.0
34-07	• Sky Watch Antenna nstl	O	1	14477-001	2.3	150.5
34-08	• Sky Watch Track Box	O	1	14477-050	10.0	140.0
	<i><b>Stormscope Option</b></i>					
34-9	• Processor	O	1	12745-050	1.7	199.0
34-10	• Antenna	O	1	12745-070	.9	191.0
	<i><b>HSI Option</b></i>					
34-11	• NSD 1000	O	-	12734-151	4.6	114.1
34-12	• Gyro Slaving Amplifier	O	-	12734-111	1.0	135.0
34-13	• SANDEL SN3308	O	-	14356-001	3.6	114.1
34-14	• Remote Gyro	O	-	14357-001	4.9	181.0
34-15	Altimeter	C	1	12102-001	1.1	116.1
34-16	TAS Indicator	C	1	13568-001	0.7	116.9
34-17	Vertical Speed Indicator	S	-	12103-001	0.7	116.6
34-18	Magnetic Compass	C	1	12451-001	0.3	132.7
34-19	Attitude Gyro	C	1	13468-001	2.2	114.5
34-20	Clock & OAT Gage	S	-	50352-001	0.3	117.4
34-21	Marker Beacon Antenna	S	1	12743-001	0.6	200.0
34-22	GPS 1 Antenna	C	1	12744-001	0.4	136.2
34-23	GPS 2 Antenna	S	1	12744-001	0.4	110.3
34-24	Transponder Antenna	C	1	12739-001	0.1	105.0

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34-25	VOR/LOC Antenna	C	1	12742-001	0.4	331.0
34-26	Turn Coordinator, Modified	C	1	11891-001	1.8	118.0
34-27	VOR/LOC./ILS/GS Indicator	S	-	12723-152	1.3	116.6
34-28	GMA 340 Audio Panel	S	1	12717-050	1.5	121.5
34-29	GNS 430 (GPS/COM/NAV)	C	1	12718-051	5.0	121.0
34-30	GNS 430 (GPS/COM/NAV)	S	1	12718-051	5.0	122.4
34-31	GTX 327 Transponder	C	1	13587-001	1.6	124.9
<b>61</b>	<b>Propeller</b>					
61-02	Propeller	C	1	15320	74.0	50.3
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	10842-004	10.5	78.4
71-02	Lower Cowl	C	1	15204-002	5.4	78.4
71-03	Engine Baffling	C	1	13765-001	10.7	78.4
<b>72</b>	<b>Engine</b>					
72-01	Engine	C	1	IO550N27B	414.5	76.5
72-01	Engine Mount Assembly	C	1	15546-002	22.0	76.5
72-02	Induction Filter	C	1	BA-111	0.4	85.3
72-03	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	61.9
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	.25	78.4
74-02	Magnetos (L & R)	C	2	10-500556-1	11.5	74.5
74-03	Ignition Switch	C	1	50314-001	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

ATA / Item	Description	Sym	Qty	Part Number	Unit Wt	Arm
<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	15077-002	2.9	99.0
<b>79</b>	<b>Oil</b>					
79-01	Engine Oil Cooler	S	1	10281A	7.8	86.5
79-02	Oil Filter	S	1	CH48108	1.5	78.4
<b>80</b>	<b>Starting</b>					
80-01	24-volt Starter	S	1	ES-646275-1	15.0	85.0
<b>95</b>	<b>Special Equipment</b>					
95-01	Packed Parachute (CAPS)	C	1	15046-002	54.0	235.5
95-02	Airplane Flight Manual	C	1	13772-001	1.2	-