


### Aircraft Weight and Balance

Tail Number: <b>N7728A</b>		Date: 04/02/2021	
Prepared by: <b>Waterford Aviation Inc.</b>		Work Order No:	
		Type Certificate No: A00009CH	
Aircraft Make: Cirrus	Model: SR20	Serial No: 1454	Hours: 630.2
Registered Owner: BSA 12 LLC		Address: 35560 Grand River Ave #112 Farmington Hills, MI 48335-3123	
Maximum Weight 3000.00		CG Range FWD 138.70 AFT 148.10	
As Received; Date of Previous Weight and Balance: 08/19/2004			
<b>Useful Load:</b> 859.00	<b>EW:</b> 2141.00	<b>EWCG:</b> 140.50	<b>Moment:</b> 300810.50
Notes:			
<b>Items Added or Removed</b>			
	<b>Weight</b>	<b>Arm</b>	<b>Moment</b>
Garmin GNS430 GPS/NAV/COM	-5.00	122.40	-612.00
Garmin GTX327 Transponder	-1.60	124.90	-199.84
STEC 55X Flight Computer	-2.70	123.30	-332.91
Garmin GTN650XI GPS/NAV/COM	7.00	122.20	855.40
Garmin GTX345 Transponder	3.12	123.70	385.94
Avidyne DFC90 Flight Computer	2.10	123.30	258.93
	0.00	0.00	0.00
	0.00	0.00	0.00
	0.00	0.00	0.00
	0.00	0.00	0.00
<input checked="" type="radio"/> As Calculated <input type="radio"/> As Weighed		New Moment 301166.02 <hr/> New EW 2143.92	New Empty Weight CG 140.47 <hr/> New Useful Load 856.08
		Signature 	
		Repair Agency or License No: ABP 3569797	

**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
22	<b>AutoFlight</b>					
22-01	System 55X Autopilot Installation	O	1	14778-003	3.0	123.3
22-02	System 55SR Autopilot Installation	O	-	14778-004	3.0	123.3
23	<b>Communications</b>					
23-01	Radios, See 34 – Navigation	-	-	-	-	-
24	<b>Electrical Power</b>					
24-01	Alternator 1	C	1	50933-001	11.0	61.8
22-01	<i>STEEL 55X Flight Computer</i>				<i>2.7</i>	<i>123.3</i>
22-01	<i>Avidyne DFC90 Flight Computer</i>				<i>2.1</i>	<i>123.3</i>

ATA / Item	Description	Sym	Qty	Part Number	Unit Wt	Arm
24-02	Alternator 2	O	1	13565-001	10.1	91.0
24-03	Battery 1	C	1	50366-001	28.0	96.0
24-04	Battery 2	C	1	50979-001	11.5	230.0
24-05	MCU	C	1	14600-002	7.5	98.0
24-06	Volt / Ammeter	C	1	12618-001	0.8	119.7
<b>25</b>	<b>Equipment &amp; Furnishings</b>					
25-01	ELT and Batteries	C	1	12756-050	3.6	228.8
25-02	Fwd Seat & Restraint Inst. (Leather: add 0.4 lb each)	C	2	12054-003	27.0	149.3
25-03	Aft Seat & Restraint Inst. (Leather: add 0.4 lb each)	C	2	12053-002	24.1	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	C	1	11787-002	4.4	173.9
27-02	Roll Trim Cartridge Assy	C	1	10780-005	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	15650-002	0.4	310.9
27-05	Pitch Tim Motor Assy	C	1	14831-001	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	12615-002	0.8	138.0
28-02	Fuel Selector Valve	C	1	11627-001	1.8	140.8
28-03	Gascolator	C	1	50199-001	1.0	98.5
28-04	Fuel Cap Assy	S	2	10052-001	0.3	152.3
28-05	Fuel Level Sender	C	2	12638-001/-002	0.3	157.8
<b>31</b>	<b>Indicating &amp; Recording</b>					
31-01	Annunciator Panel	C	1	15260-001	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 Installation	C	2	14446-001/-002	34.0	157.5
32-02	Main Gear Fairings (L/R)	C	2	15311-003/004	4.1	157.5
32-04	Brake Assembly (L/R)	C	2	11641-103/-104	3.2	157.5
32-05	Main Wheels	C	2	11641-101	6.3	157.5

ATA / Item	Description	Sym	Qty	Part Number	Unit Wt	Arm
32-06	Main Tire	C	2	50060-001	6.3	157.5
32-07	Main Tube	C	2	50059-001	1.0	157.5
32-08	Nose Gear Installation	C	1	10784-002	32.0	86.0
32-09	Nose Wheel	C	1	12798-001	4.5	70.0
32-10	Nose Tire 5.00 x 5	C	1	12020-001	4.3	70.0
32-11	Nose Tire Tube	C	1	50087-001	1.0	70.0
32-12	Nose Gear Fairing	S	1	12447-001	0.9	78.0
32-13	Brake Master Cylinder	C	4	50247-001	0.6	104.5
32-14	Brake Fluid Reservoir	C	1	12006-001	0.4	98.1
<b>33</b>	<b>Lights</b>					
33-01	Strobe/Nav Lights (L/R)	C	2	50626-001/-002	0.6	158.0
33-02	Strobe Power Supply (L/R)	C	2	50625-001	1.7	158.0
33-03	Landing Light Installation (Halogen)	O	-	14525-001		
33-04	Landing Light Installation (HID)	O	1	20438-002	1.9	80.0
<b>34</b>	<b>Navigation &amp; Pitot Static</b>					
34-01	Avidyne EX3000C MFD	O	-	14750-005	6.4	121.8
34-02	Avidyne EX5000C MFD	O	1	14750-006	6.4	121.8
34-03	Altimeter	C	1	12102-001	1.1	116.1
34-04	Airspeed Indicator	C	1	12105-001	0.7	116.9
34-05	Attitude Indicator	O	1	13468-114	2.2	114.5
34-06	Magnetic Compass	C	1	12451-002	0.3	132.7
34-07	Turn Coordinator	C	1	11891-001	1.8	118.0
34-08	GMA 340 Audio Panel	S	1	12717-050	1.5	121.5
34-09	Marker Beacon Antenna	S	1	12743-001	0.6	200.0
<del>34-10</del>	<del>CTX 327 Transponder</del>	<del>REM</del>	<del>1</del>	<del>13587-001</del>	<del>4.6</del>	<del>124.9</del>
34-11	Transponder Antenna	S	1	12739-001	0.1	105.0
	<b>PFD Option</b>					
34-12	• Avidyne PFD (SRV)	C	-	15222-050	12.0	115.5
34-13	• Avidyne PFD	C	1	15222-001	12.0	115.5
	<b>Navigator Option</b>					
34-14	• GNS 250 (GPS/COM/NAV)	S	-	12720-001	2.6	124.3
34-15	• GNS 420 (GPS/COM/NAV)	O	-	12718-004	5.0	121.0
34-16	• GNS 430 (GPS/COM/NAV)	O	1	12718-003	5.0	121.0
<del>34-17</del>	<del>GNS 430 (GPS/COM/NAV)</del>	<del>REM</del>	<del>1</del>	<del>12718-003</del>	<del>5.0</del>	<del>122.4</del>
34-18	• GPS 1 Antenna	S	1	12744-001	0.4	136.2
34-19	• GPS 2 Antenna	O	1	12744-001	0.4	110.3
<b>34-10</b>	<b>GTX 345 Transponder</b>	<b>IN</b>	<b>1</b>	<b>011-03302-06</b>	<b>3.12</b>	<b>123.7</b>
<b>34-17</b>	<b>GTN 650 XI (GPS/COM/NAV)</b>	<b>IN</b>	<b>1</b>	<b>011-04631-00</b>	<b>7.0</b>	<b>122.2</b>

ATA / Item	Description	Sym	Qty	Part Number	Unit Wt	Arm
34-20	• COM 1 Antenna	S	1	12740-001	0.5	178.5
34-21	• COM 2 Antenna	O	1	12741-001	0.5	204.6
34-22	• VOR/LOC Antenna	O	1	12742-001	0.4	331.0
	<b>Engine Monitoring Option</b>					
34-23	• Monitor Sensor Unit	O	1	14843-001	1.1	118.0
34-24	• Monitor Harness	O	1	15030-001	0.9	92.0
34-25	• Monitor Cabin Harness	O	1	15032-001	2.0	108.0
	<b>Sky Watch Option</b>					
34-26	• Sky Watch Inverter	O	1	14484-001	0.5	118.0
34-27	• Sky Watch Antenna	O	1	14477-001	2.3	150.5
34-28	• Sky Watch Track Box	O	1	14477-050	10.0	140.0
	<b>Stormscope Option</b>					
34-29	• Processor	O	1	12745-050	1.7	199.0
34-30	• Antenna	O	1	12745-070	0.9	191.0
<b>61</b>	<b>Propeller</b>					
61-01	Propeller Governor	C	1	15524-001	3.2	61.7
61-02	• 2-Blade Propeller Installation	O	-	11577-003	58.0	50.3
61-03	• 3-Blade Propeller Installation	O	1	11577-004	80.5	50.3
<b>71</b>	<b>Power Plant</b>					
71-01	Upper Cowl	C	1	20181-003	10.5	78.4
71-02	Lower Cowl	C	1	20182-003	5.4	78.4
71-03	Engine Baffling	C	1	20441-002	10.7	78.4
<b>72</b>	<b>Engine</b>					
72-01	Engine Installation	C	1	12010-001	305.0	76.5
72-01	Induction Filter	C	1	50207-001	0.4	85.3
72-02	Reiff Heater	O	-	S-6	1.9	76.0
<b>73</b>	<b>Engine Fuel</b>					
73-01	Engine Driven Fuel Pump	C	1	649368-22	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	12441-002	0.4	67.8
<b>74</b>	<b>Engine Ignition</b>					
74-01	Spark Plugs	C	12	50744-001	0.3	78.4
74-02	Magnetos (L & R)	C	2	6314	4.8	74.5
74-03	Ignition Switch	C	1	50314-001	0.5	123.0

ATA / Item	Description	Sym	Qty	Part Number	Unit Wt	Arm
<b>77</b>	<b>Engine Indicating</b>					
77-01	Tachometer	C	1	12620-003	0.5	118.7
77-02	EGT/CHT Gage	O	-	12616-001	0.5	119.0
77-03	Man Press/Fuel Flow Gage	C	1	12617-002	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	20559-001	5.3	90.9
78-02	LH Muffler	S	1	20560-001	2.6	90.2
78-03	Tailpipe	S	2	20556-002	2.0	110.0
<b>79</b>	<b>Oil</b>					
79-01	Engine Oil Cooler	S	1	646880	8.5	86.5
79-02	Oil Filter	S	1	CH48108	1.3	78.4
<b>80</b>	<b>Starting</b>					
80-01	24-volt Starter	S	1	656181	15.0	85.0
<b>95</b>	<b>Special Equipment</b>					
95-01	Packed Parachute (CAPS)	C	1	20332-001	54.0	235.5
95-02	Airplane Flight Manual	C	1	11934-003	1.2	-