

Aircraft Weight and Balance Revision

Tail Number: N143SB		Date: 09/29/2017	
Prepared by: RYAN MCGEE ADVANCED WINGS 1501 NARCISSA ROAD BLUE BELL, PA 19422		Work Order No: 158241	
		Type Certificate A00009CH Data No:	
Aircraft Make: Cirrus	Model: SR20	Serial No: 2219	Time: 1444.4
Registered Owner: GOTH AIRCRAFT LLC		Address: 11 CHURCH RD HATFIELD PA 19440-1206	
Maximum Weight 3050		CG Range FWD 137.8 AFT 148.1	
As Received; Date of Previous Weight and Balance: ORIGINAL		Useful Load: 847	EW: 2203 EWCG: 140.67 Moment: 309896.01
Notes:			
		Weight	Arm
REMOVED STARTER C24ST3		-6.63	93.0
INSTALLED NEW STARTER ES646275-1		14.5	93.0
		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	0.00
		0.00	0.00
☒ As Calculated ☐ As Weighed		Moment 310627.92	
		Weight 2210.87	
		New Empty Weight CG	
		140.50	
		New Useful Load	
		839.13	
		Signature	
			
		Repair Agency	
		or License No: ADP 3786795	

Delivered Weight Data & Equipment List

Model SR20

Serial Number: 2219
Registration Number: N800TH
Basic Empty Weight: 2203 lb
Total Moment/1000: 309.933
Center of Gravity: 140.67

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 SR20 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
21	Air Conditioning					
21-01	Blower Fan	O	-	20970-003	7.3	133.0
21-02	Compressor Assembly	O	1	29124-001	15.0	93.1
21-03	Condenser Assembly	O	1	21209-002	17.0	132.8
21-04	Evaporator Assembly	O	1	21114-006	17.5	199.5

ATA / Item	Description	Sym	Qty	Part Number	Unit Wt	Arm
22	AutoFlight					
22-01	System 55X Autopilot Installation	O	-	13560-004	3.0	123.3
22-02	System 55SR Autopilot Installation	S	-	15861-002	3.0	123.3
22-03	Garmin Autopilot controller	O	1	24645-001	0.8	126.5
23	Communications					
23-01	Radios, See 34 - Navigation	-	-	-	-	-
24	Electrical Power					
24-01	Alternator 1	C	1	50933-001	12.3	61.8
24-02	Alternator 2	C	1	50846-070	5.7	91.0
24-03	Battery 1	C	1	53030-001	28.0	96.0
24-04	Battery 2	C	1	24947-001	11.5	230.0
24-05	MCU	C	1	19800-001	9.8	98.0
25	Equipment & Furnishings					
25-01	ELT and Batteries	C	1	17190-101	3.6	228.8
25-02	Fwd Seat & Restraint Inst. (Leather: add 0.4 lb each)	C	2	29491-0xx	27.0	149.3
25-03	Rear Seat Installation (Leather: add 0.4 lb each)	C	-	29492-0xx	21.8	180.0
25-04	Rear Seat Restraint	C	-	12491-001	2.3	180.0
25-05	Rear bench seat Installation (Leather: add 0.8 lb)	C	1	29429, 29428, & 29427	26.9	183.0
25-06	Rear Seat Restraint 3 point - 2 seat belt	C	-	29405-001	3.3	200.0
25-07	Rear Seat Restraint 3 point - 3 seat belt	C	1	29405-002	5.1	200.0
26	Fire Protection					
26-01	Portable Fire Extinguisher	C	1	12533-003	1.5	118.4
27	Flight Controls					
27-01	Flap Actuator	C	1	11787-003	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	12546-003	1.3	159.8
27-04	Pitch Trim Cartridge Assy	C	1	15650-002	0.4	310.9
27-05	Pitch Trim Motor Assy	C	1	14832-001	1.3	303.5
27-06	Yaw Trim Cartridge Assy	C	1	11898-002	0.4	106.2
27-07	Yaw Servo GSA81	O	-	24644-001	2.2	236.0
27-08	Yaw Servo Motor GSM85A	O	-	24644-011	1.6	236.0
28	Fuel					
28-01	Fuel Quantity Indicator	C	1	12615-003	0.8	138.0
28-02	Fuel Selector Valve	C	1	17921-001	1.8	140.8
28-03	Gascolator	C	1	14069-003	1.0	98.5
30	Ice & Rain Protection					
30-11	Ice-Inspection Lights	O	2	19984-001/-002	0.6	104.5
31	Indicating & Recording					
31-02	Hourmeter (Ea)	S	2	50485-001	0.1	142.3
32	Landing Gear					
32-01	Main Gear Installation	C	2	29146-003/-004	34.0	157.5
32-02	Main Gear Fairing & Pant	S	2	19890-003/-004	6.1	157.5
32-03	Brake Assembly (L/R)	C	2	13399-104	3.2	157.5
32-04	Main Wheels	C	2	13399-101	7.8	157.5
32-05	Main Tire	C	2	14075-002/-005/-006/-007	6.3	157.5
32-06	Main Tube	C	2	14076-002	1.0	157.5
32-07	Nose Gear Installation	C	1	18631-004	25	77
32-08	Fairing, NLG Strut, Oleo	S	1	26607-001	1.1	78
32-09	Nose Wheel	C	1	12798-001	4.5	71.8
32-10	Nose Tire 5.00 x 5	C	1	12020-003	4.3	71.8
32-11	Nose Tire Tube	C	1	14076-001	1.0	71.8
32-12	Nose Gear Fairing & Pant	S	1	26960-002	3.2	78.0
32-13	Brake Master Cylinder	C	4	14269-001	0.6	104.5
32-14	Brake Fluid Reservoir	C	1	12006-001	0.4	98.1
33	Lights					
33-01	Strobe/Nav Lights (L/R)	C	2	17140-005/-006	0.6	161.8
33-02	Strobe Power Supply (L/R)	C	2	14286-002	1.7	147.8
33-03	Landing Light Installation	S	1	18983-004	1.9	80.0
33-04	Recognition Light Installation	S	2	18957-003/-004	0.4	138.5
34	Navigation & Pitot Static					
34-03	Garmin 10" Display	O	-	24655-011	9.3	118.5
34-04	Garmin 10" Display	C	-	24655-012	9.3	117.0
34-05	Garmin 12" Display	O	1	24655-003	9.3	118.5

ATA / Item	Description	Sym	Qty	Part Number	Unit Wt	Arm
34-06	Garmin 12" Display	C	1	24655-004	9.3	117.0
34-07	Altimeter	C	1	12102-002	1.1	116.1
34-08	Airspeed Indicator	C	1	12105-003	0.7	116.9
34-09	Attitude Indicator	O	1	24668-001	2.2	114.5
34-10	Magnetic Compass	C	1	12451-002	0.3	132.7
34-11	Turn Coordinator	C	1	11891-001	1.8	118.0
34-12	GMA 350 Audio Panel	O	1	29396-001	1.6	125.8
34-13	Marker Beacon Antenna	S	1	12743-003	0.6	200.0
34-14	Transponder Antenna	S	1	12739-001	0.1	105.0
	Navigator Option					
34-18	GPS/NAV/COM#1 GIA63W	O	1	24662-002	6.3	110.5
34-19	GPS/NAV/COM#2 GIA63W	O	1	24662-002	6.3	111.0
34-20	AIR DATA COMPUTER, GDC 74	O	2	24651-001	2.0	112.5
34-21	AHRS UNIT, GRS 77	O	2	24661-003	3.3	110.0
34-22	CO Detector	O	1	24660-002	0.2	104.0
34-23	FMS Keyboard, GCU 478	O	1	24654-002	1.0	124.0
34-24	ADF Receiver (KR87)	O	-	24659-001	3.2	120.0
34-25	ADF Antenna (KA44B)	O	-	24659-100	4.2	162.0
34-26	DME (KNA61)	O	-	24658-001	2.8	122.0
34-27	DME Antenna (KA61)	O	-	24658-100	0.2	114.5
34-28	GPS 1 Antenna	C	1	12744-004	0.4	136.2
34-29	GPS 2 Antenna/Iridium Combo Antenna	S	1	29301-001	0.4	200.0
34-30	COM 1 Antenna	S	1	12740-004	0.5	178.5
34-31	COM 2 Antenna	O	1	12741-002	0.5	204.6
34-32	VOR/LOC Antenna	O	1	12742-001	0.4	331.0
	Engine Monitoring					
	Rack/Unit Installation, GEA 71	O	1	24661-001	2.2	111.5
	Traffic Option					
34-36	Avidyne TAS Processor	O	1	71-2420-X-TAS610	6.7	139.0
34-37	Single Blade TAS Antenna	O	1	S72-1750-31L	0.7	157.2
34-38	Twin Blade TAS Antenna	O	1	S72-1750-32L	0.8	180.0
34-40	Garmin Traffic GTS 800	O	-	26659-001	9.9	139.0
34-41	Antenna, Monopole	O	-	26656-001	0.2	157.2
34-42	Antenna, Directional, GA 58	O	-	26659-050	0.8	180.0
	Weather Option					
34-40	• Stormscope Processor	O	-	12745-050	1.7	199.0
34-41	• Stormscope Antenna	O	-	12745-070	0.9	191.0
34-42	GSR 56 Iridium Satellite Receiver	O	-	29307-001	4.2	231.1
	Transponder Option					
34-44	• Mode A/C Transponder	O	1	24652-001	1.6	230.0
34-45	• Mode S Transponder	O	-	24653-001	2.6	121.0
34-46	• Mode S w/ES Transponder	O	1	24653-002	2.6	121.0
	XM Satellite Options					
34-48	• XM WX / Radio Receiver	O	1	24657-001/-002	1.7	114.0
34-49	• XM Radio Remote Control	O	1	24641-001	0.2	149.3
61	Propeller					
61-01	Propeller Governor	C	1	15524-001	3.2	61.7
61-02	• 2-Blade Propeller Installation	C	-	14680-001/-002	58.0	51.6
61-03	• 3-Blade Propeller Installation	O	1	14679-001/-002/-003	80.5	51.6
72	Engine					
72-02	Induction Filter	C	1	50207-200	0.4	62.9
72-03	Tanis Engine Pre-heater	O	-	25030-001	2.1	61.0
73	Engine Fuel					
73-02	Auxiliary Fuel Pump	C	1	19094-001	3.2	97.1
80	Starting					
80-01	24-volt Starter	S	1	657596	6.63	93.0
95	Special Equipment					
95-01	Packed Parachute (CAPS)	C	1	25337-002	54.0	235.5
95-02	Airplane Flight Manual	C	1	11934-004	3.1	-
95-03	Enhanced Vision System	O	1	24737-007	1.2	161.0