

TWIN LAKES AVIONICS

206 Indian Hills Rd.
ADVANCE, NC 27006

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Revision of Weight and Balance Data and Equipment List

Aircraft Information

N N812DB Model CIRRUS DESIGN COR S/N 2399 Gross Weight 3400

Previous Weight and Balance Data

Date	Empty Weight	Usable Load	Empty C.G.	Moment
11/11/2016	2473.92	926.0801	139.9	346101

Owner HERRRING AVIATION CO LLC
1001 COFFEY AVE
NORTH WILKESBORO NORTH CAROLINA, 28659-3268

Added or Removed Equipment

	Weight	Arm	Moment
Add Garmin GDL 82 ADS-B Transmitter	1.2	116.5	139.8
Summary for 1 item	1.2		139.8

Revised Weight and Balance Calculation

Date	Empty Weight	Usable Load	Empty C.G.	Moment
5/22/2019	2,475.1	924.9	139.9	346,241.2

Twin Lakes Avionics CRS JB4R278M

Paul H. Herring

Delivered Weight Data & Equipment List

Model SR22

Serial Number:	2399
Registration Number:	N812DB
Basic Empty Weight:	2456 lb
Total Moment/1000:	340.953
Center of Gravity:	F.S.138.8 or 12.0 MAC
Parachute Canopy Color:	Orange / White

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
21	Air Conditioning					
21-01	Blower Fan Only	O	1	20970-001	7.4	142.5
21-02	Compressor	O	-	17557-001	15.0	93.1
21-03	Condenser Assembly	O	-	21209-001	17.0	132.8
21-04	Evaporator Assembly	O	-	21114-002	17.5	199.5
22	AutoFlight					
22-01	Sys 55X Autopilot Prgrmmr	S	1	14779-002	3.0	123.3
22-02	Altitude Transducer	S	1	12722-001	0.2	112.4
23	Communications					
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
24	Electrical Power					
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
25	Equipment & Furnishings					
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	20907-003/-004	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
26	Fire Protection					
26-01	Portable Fire Extinguisher	C	1	12533-003	1.5	137.6
27	Flight Controls					
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
28	Fuel					
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
30	Ice & Rain Protection					
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

ATA / Item	Description	Sym	Qty	Part Number	Unit Wt	Arm
30-03	Metering Pump	O	1	15165-013	4.5	176.0
31	Indicating & Recording					
31-01	Annunciator Panel	C	1	15262-001	0.3	117.2
31-02	Hourmeter	S	1	12135-001	0.1	142.3
32	Landing Gear					
32-01	Main Landing Gear Installation	C	2	13287-003/004	34.0	157.5
32-02	Main Landing Gear Fairing Installation	S	2	13420-002	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	14075-004	6.3	157.5
32-08	Main Tube	C	2	14076-004	1.0	157.5
32-09	Nose Landing Gear Installation	C	1	13388-002	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	15567-001	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
33	Lights					
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	20248-004	1.9	80.0
34	Navigation & Pitot Static					
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
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

ATA / Item	Description	Sym	Qty	Part Number	Unit Wt	Arm
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
	EMax Engine Monitoring					
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
	Sky Watch Option					
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
	Stormscope Option					
34-22	• Processor	O	1	12745-050	1.7	199.0
34-23	• Antenna	O	1	12745-070	0.9	191.0
	Transponder Option					
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
	TAWS Option					
34-26	• KGP 560 Processor	O	1	15963-001	1.3	117.0
	XM Satellite Options					
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
35	Oxygen					
35-01	Bottle Assembly - Empty	O	1	100N0020-4	17.4	262.3
	Full				23.8	265.3
61	Propeller					
61-01	Hartzell Propeller Installation	C	-	15319-00X	79.8	48.0
61-02	Hartzell Composite Propeller Installation	O	1	18974-001	67.2	48.0
61-02	McCauley Propeller Installation	O	-	15825-00X	78.0	50.0
61-03	Propeller Governor	C	1	15524-001	3.2	61.7
71	Power Plant					
71-01	Upper Cowl	C	1	20181-003	10.5	78.4
71-02	Lower Cowl LH	C	1	20182-005	5.4	78.4
71-03	Lower Cowl RH	C	1	20439-005	5.4	78.4
71-03	Engine Baffling Installation	C	1	15460-001	10.7	78.4
72	Engine					
72-01	Engine	C	1	IO550N27B	414.5	76.5

ATA / Item	Description	Sym	Qty	Part Number	Unit Wt	Arm
72-02	Engine Mount Assembly	C	1	15546-003	22.0	76.5
72-03	Induction Filter	C	-	50207-001	0.4	62.9
72-04	Reiff Heater	O	-	L-6	1.9	76.0
73	Engine Fuel					
73-01	Engine Driven Fuel Pump	C	1	ETI-SR22-2-11	3.32	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
74	Engine Ignition					
74-01	Spark Plugs	C	12	RHB32E	0.3	78.4
74-02	Magnetos (L & R)	C	2	10-500556-101	11.6	74.5
74-03	Ignition Switch Installation	C	1	11915-003	0.5	123.0
78	Engine Exhaust					
78-01	Heater Muffler	S	1	ETI-SR22-100-1	13.2	87.0
78-02	LH Muffler	S	1	ETI-SR22-103-1	8.5	86.0
78-03	Tailpipe	S	2	ETI-G2-110-L-1	12	99.0
79	Oil					
79-01	Engine Oil Cooler	S	1	10281A	7.8	90.0
79-02	Oil Filter	S	1	CH48108	1.5	93.4
80	Starting					
80-01	24-volt Starter	S	1	ES-646275-1	15.0	93.0
81	Turbines-SA10588SC & SE10589SC					
81-01	LH Turbocharger	C	1	ETI-SR22-2000	15.0	84.0
81-02	RH Turbocharger	C	1	ETI-SR22-1300	15.0	84.0
81-03	LH Intercooler	C	1	ETI-G2-500-1	5.0	83.0
81-04	RH Intercooler	C	1	ETI-G2-500-2	5.0	83.0
81-05	Lower Cowl Modification	C	1	NA	0.8	81.0
81-06	Air Filter Box and Retainer	C	1	NA	1.5	63.0
95	Special Equipment					
95-01	Packed Parachute (CAPS)	C	1	20331-001	54.0	235.5
95-02	Airplane Flight Manual	C	1	13772-001	1.2	-