

Weight and Balance Loading Form

• Note •

For Center of Gravity Envelope, refer to Section 2, Limitations.

The Takeoff Condition Weight must not exceed 3050 lb.

The Takeoff Condition Moment must be within the Minimum Moment to Maximum Moment range at the Takeoff Condition Weight. (Refer to *Moment Limits*).

Serial Num: _____ Date: _____

Reg. Num: _____ Initials: _____

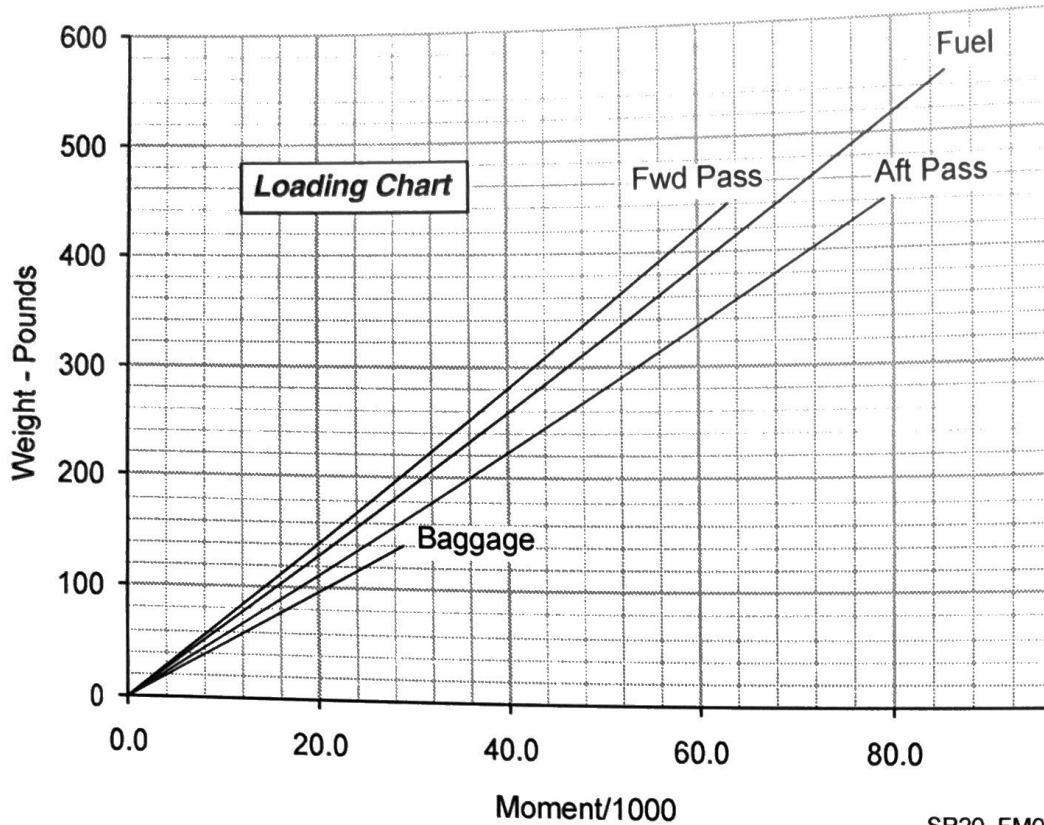
Item	Description	Weight LB	Moment/ 1000
1.	Basic Empty Weight <i>Includes unusable fuel & full oil</i>		
2.	Front Seat Occupants <i>Pilot & Passenger (total)</i>		
3.	Rear Seat Occupants		
4.	Baggage Area <i>130 lb maximum</i>		
5.	Zero Fuel Condition Weight <i>Sub total item 1 thru 4</i>		
6.	Fuel Loading <i>56 Gallon @ 6.0 lb/gal. Maximum</i>		
7.	Ramp Condition Weight <i>Sub total item 5 and 6</i>		
8.	Fuel for start, taxi, and run-up <i>Normally 9 lb at average moment of 922.8.</i>		
9.	Takeoff Condition Weight <i>Subtract item 8 from item 7</i>		

Figure 6-1

Section 6
Weight and Balance Data

Loading Data

Use the following chart or table to determine the moment/1000 for fuel and payload items to complete the Loading Form.



SR20_FM06_3029

Weight LB	Fwd Pass FS 143.5	Aft Pass FS 180.0	Baggage FS 208.0	Fuel FS 153.8	Weight LB	Fwd Pass FS 143.5	Aft Pass FS 180.0	Fuel FS 153.8
20	2.87	3.60	4.16	3.10	220	31.57	39.60	34.08
40	5.74	7.20	8.32	6.20	240	34.44	43.20	37.18
60	8.61	10.80	12.48	9.29	260	37.31	46.80	40.27
80	11.48	14.40	16.64	12.39	280	40.18	50.40	43.37
100	14.35	18.00	20.80	15.49	300	43.05	54.00	46.47
120	17.22	21.60	24.96	18.59	320	45.92	57.60	49.57
140	20.09	25.20	27.04*	21.69	336**	48.79	61.20	52.05
160	22.96	28.80		24.78	360	51.66	64.80	
180	25.83	32.40		27.88	380	54.53	68.40	
200	28.70	36.00		30.98	400	57.40	72.00	

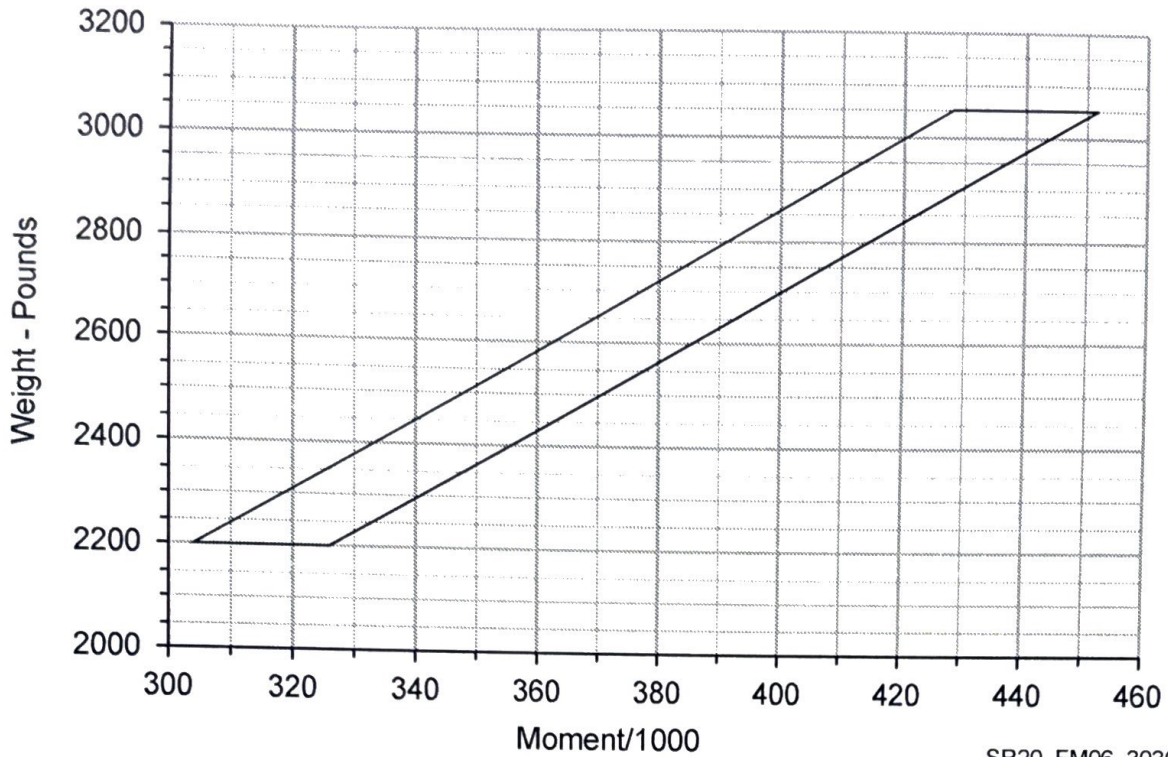
*130 lb Maximum

**56 U. S. Gallons Usable

Figure 6-2

Moment Limits

Use the following chart or table to determine if the weight and moment from the completed Weight and Balance Loading Form (Figure 6-1) are within limits.



Weight LB	Moment/1000		Weight LB	Moment/1000	
	Minimum	Maximum		Minimum	Maximum
2200	304	326	2650	369	390
2250	311	333	2700	375	398
2300	318	341	2750	383	406
2350	326	348	2800	390	414
2400	333	354	2850	398	421
2450	340	362	2900	406	429
2500	347	369	2950	414	437
2550	354	375	3000	421	444
2600	362	383	3050	429	452

Figure 6-3

Delivered Weight Data & Equipment List

Model SR20

Serial Number: 2332
Registration Number: N512AM
Basic Empty Weight: 2227 lb
Total Moment/1000: 314.184
Center of Gravity: 141.11

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 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	132.9
21-04	Evaporator Assembly	O	1	21114-006	17.5	199.5
22	AutoFlight					
22-03	Garmin Autopilot controller	O	1	24645-xxx	0.8	126.5
23	Communications					
23-01	GDL88 UAT/ADS-B Transceiver	O	1	30156-xxx	3.7	136.0

199.5
132.8