# N444KK

## 2023 Cirrus SR22T

# Cirrus SR22T W & B

MSN: SR22T-9584

RidgeAire WORLDWIDE aviation specialists

*Prepared by the worldwide aviation specialists at RidgeAire, Inc.*

# Delivered Weight Data & Equipment List

| | |
|---|---|
| **Model SR22T** | |
| **Serial Number:** | 9584 |
| **Registration Number:** | N444KK |
| **Basic Empty Weight:** | 2501 lb |
| **Total Moment/1000:** | 350.397 |
| **Center of Gravity:** | F.S.140.1 |

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 SR22T 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.

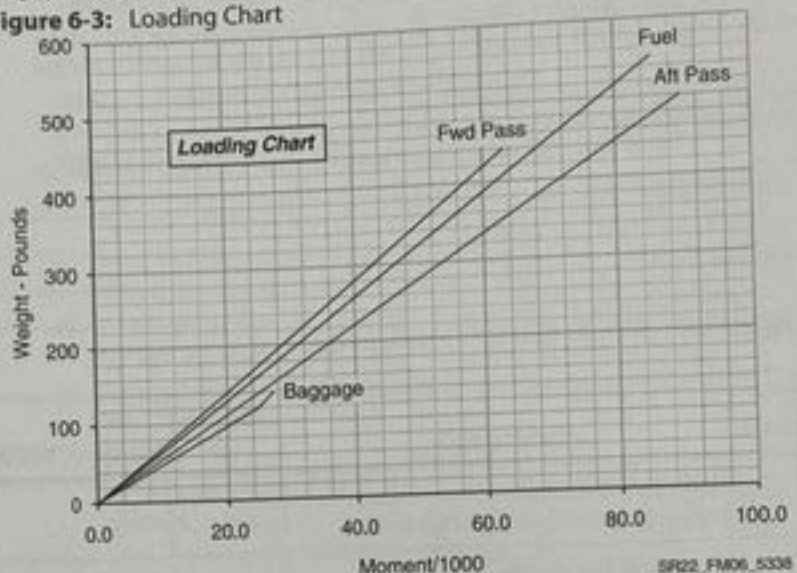
| ATA / Item | Description | Sym | Qty | Part Number | Unit Wt | Arm |
|---|---|---|---|---|---|---|
| **21** | **Air Conditioning** | | | | | |
| 21-01 | Blower Fan Only | O | - | 20970-xxx | 7.3 | 133.0 |
| 21-02 | Compressor Assembly | O | 1 | 21119-xxx | 15.0 | 93.1 |
| 21-03 | Condenser Assembly | O | 1 | 21209-xxx | 17.0 | 199.5 |
| 21-04 | Evaporator Assembly | O | 1 | 21114-xxx | 17.5 | 132.8 |
| **22** | **AutoFlight** | | | | | |
| 22-01 | Garmin Autopilot Controller, GMC 707 | S | 1 | 30528-xxx | 0.6 | 126.5 |
| 22-02 | Altitude Transducer | S | 1 | 12722-xxx | 0.2 | 112.4 |
| **23** | **Communication** | | | | | |
| 23-01 | GMA350/C Audio Panel | O | 1 | 29396-xxx | 1.6 | 125.8 |
| **24** | **Electrical** | | | | | |
| 24-01 | Convenience System Controller | O | 1 | 36517-xxx | 0.7 | 179.2 |
| **25** | **Equipment & Furnishings** | | | | | |
| 25-01 | Fwd Seat & Restraint Inst. (Leather: add 0.4 lb each) | C | 2 | 31981-xxx | 27.0 | 149.3 |
| 25-02 | Rear Seat Installation (Leather: add 0.4 lb each) | C | - | 29492-xxx | 21.8 | 190.0 |
| 25-03 | Rear Seat Restraint | C | - | 12491-xxx | 2.3 | 180.0 |
| 25-04 | Rear bench seat installation (Leather: add 0.8 lb) | C | 1 | 31986, 31985, 31983 | 26.9 | 183.0 |
| 25-05 | Rear Seat Restraint 3 point - 2 seat belt | C | - | 29405-xxx | 3.3 | 200.0 |
| 25-06 | Rear Seat Restrains 3 point - 3 seat belt | C | 1 | 29405-xxx | 5.1 | 200.0 |
| **26** | **Fire Protection** | | | | | |
| 26-01 | Portable Fire Extinguisher | C | 1 | 12533-xxx | 2.5 | 118.4 |
| **27** | **Flight Controls** | | | | | |
| 27-01 | Yaw Servo Installation | O | 1 | 29680-xxx | 5.4 | 236.0 |
| **33** | **Lights** | | | | | |
| 33-01 | Landing Light Installation | S | 1 | 18983-xxx | 1.9 | 80.0 |
| **34** | **Navigation & Pitot Static** | | | | | |
| 34-01 | Com 1 Antenna | C | 1 | 12740-xxx | 0.5 | 178.5 |
| 34-02 | Com 2 Antenna | S | 1 | 12741-xxx | 0.5 | 204.6 |
| 34-03 | Garmin 12" Display | O | 1 | 36739-xxx | 5.8 | 118.5 |
| 34-04 | Garmin 12" Display | C | 1 | 36739-xxx | 5.8 | 117.0 |
| 34-05 | Garmin 10" Display | O | - | 36739-xxx | 4.5 | 118.5 |
| 34-06 | Garmin 10" Display | C | - | 36739-xxx | 4.5 | 117.0 |
| 34-07 | Altimeter | C | - | 12102-xxx | 1.1 | 116.1 |
| 34-08 | Airspeed Indicator | C | - | 13568-xxx | 0.7 | 116.9 |
| 34-09 | Magnetic Compass | O | - | 12451-xxx | 0.3 | 132.7 |
| 34-10 | Attitude Gyro | C | - | 24668-xxx | 2.2 | 114.5 |
| 34-11 | Marker Beacon Antenna | S | 1 | 12743-xxx | 0.6 | 200.0 |
| 34-12 | GPS 1 Antenna | C | 1 | 12744-xxx | 0.4 | 136.2 |
| 34-13 | GPS 2 Antenna/Iridium Combo Antenna | S | 1 | 29301-xxx | 0.4 | 200.0 |
| 34-14 | Transponder Antenna | C | 1 | 12739-xxx | 0.1 | 105.0 |
| 34-15 | GPS/NAV/COMM1 GIA63W/GIA64W | S | 1 | 24662-xxx | 6.3 | 110.5 |
| 34-16 | GPS/NAV/COMM2 GIA63W/GIA64W | S | 1 | 24662-xxx | 6.3 | 111.0 |
| 34-17 | ADAHRS GSU 75 | O | 2 | 36741-xxx | 1.4 | 112.5 |
| 34-18 | CO Detector | O | 1 | 24660-xxx | 0.2 | 104.0 |
| 34-19 | FMS Keyboard, GCU 479 Controller | S | 1 | 36749-xxx | 0.8 | 124.0 |
| 34-20 | DME (KNA61) | O | - | 24658-xxx | 2.8 | 122.0 |
| 34-21 | DME Antenna (KA61) | O | - | 24658-xxx | 0.2 | 114.5 |
| 34-22 | MD302 (Standby Attitude Module) | C | 1 | 30499-xxx | 1.5 | 116.1 |
| | **Engine Monitoring** | | | | | |
| 34-23 | Rack/Unit Installation, GEA 71 | S | 1 | 24666-xxx | 2.2 | 111.5 |
| | **Traffic Option** | | | | | |
| 34-24 | Garmin Traffic GTS 800 | O | 1 | 29659-xxx | 0.9 | 139.0 |
| 34-25 | Antenna, Monopole | O | 1 | 29656-xxx | 0.2 | 180.0 |
| 34-26 | Antenna, Directional, GA 58 | O | 1 | 29659-xxx | 0.8 | 157.2 |
| | **Weather Option** | | | | | |
| 34-27 | Stormscope Processor | O | - | 12745-xxx | 1.7 | 199.0 |
| 34-28 | Stormscope Antenna | O | - | 12745-xxx | 0.9 | 191.0 |

| ATA / Item | Description | Sym | Qty | Part Number | Unit Wt. | Arm |
|---|---|---|---|---|---|---|
| 34-29 | GSR 56 Iridium Satellite Receiver | O | - | 29307-xxx | 4.2 | 231.1 |
| | **Transponder Option** | | | | | |
| 34-30 | GTX 345 Mode S UAT Transponder | O | 1 | 36745-xxx | 3.1 | 230.0 |
| 34-31 | GTX 335 Mode S w/ES Transponder | O | - | 36745-xxx | 2.8 | 230.0 |
| | **XM Satellite Options** | | | | | |
| 34-32 | XM WX/Radio Receiver | O | 1 | 24657-xxx | 2.7 | 230.3 |
| 35 | **Oxygen** | | | | | |
| 35-01 | Bottle Assembly - Empty | O | 1 | 100H0020-4 | 19.9 | 262.3 |
| 35-02 | Full | | | | 23.8 | 265.3 |
| 61 | **Propeller** | | | | | |
| 61-01 | Light Weight Hub Propeller Installation | O | 1 | 13599-xxx | 63.2 | 48.0 |
| 61-02 | Propeller Governor | C | 1 | 21285-xxx | 3.2 | 81.7 |
| 72 | **Engine** | | | | | |
| 72-01 | Tanis Engine Pre-heater | O | 1 | 25028-xxx | 2.1 | 81.0 |
| 95 | **Special Equipment** | | | | | |
| 95-01 | Gateway Module | O | 1 | 42064-xxx | 3.0 | 233.3 |
| 95-02 | Enhanced Vision System | O | 1 | 24737-xxx | 1.2 | 161.0 |

# Loading Data

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

**Figure 6-3:** Loading Chart




| Weight LB | Fwd Pass FS 143.5 | Aft Pass FS 180.0 | Baggage FS 208.0 | Fuel FS 154.9 | Weight LB | Fwd Pass FS 143.5 | Aft Pass FS 180.0 | Fuel FS 154.9 |
|---|---|---|---|---|---|---|---|---|
| 20 | 2.9 | 3.6 | 4.2 | 3.1 | 300 | 43.1 | 54.0 | 46.5 |
| 40 | 5.7 | 7.2 | 8.3 | 6.2 | 320 | 45.9 | 57.6 | 49.6 |
| 60 | 8.6 | 10.8 | 12.5 | 9.3 | 340 | 48.8 | 61.2 | 52.7 |
| 80 | 11.5 | 14.4 | 16.6 | 12.4 | 360 | 51.7 | 64.8 | 55.8 |
| 100 | 14.4 | 18.0 | 20.8 | 15.5 | 380 | 54.5 | 68.4 | 58.9 |
| 120 | 17.2 | 21.6 | 25.0 | 18.6 | 400 | 57.4 | 72.0 | 62.0 |
| 140 | 20.1 | 25.2 | 27.04* | 21.7 | 420 | 60.3 | 75.6 | 65.1 |
| 160 | 23.0 | 28.8 | | 24.8 | 440 | 63.1 | 79.2 | 68.2 |
| 180 | 25.8 | 32.4 | | 27.9 | 460 | | 82.8 | 71.3 |
| 200 | 28.7 | 36.0 | | 31.0 | 480 | | 86.4 | 74.4 |
| 220 | 31.6 | 39.6 | | 34.1 | 500 | | 90.0 | 77.5 |
| 240 | 34.4 | 43.2 | | 37.2 | 520 | | | 80.5 |
| 260 | 37.3 | 46.8 | | 40.3 | 552** | | | 85.5 |
| 280 | 40.2 | 50.4 | | 43.4 | | | | |

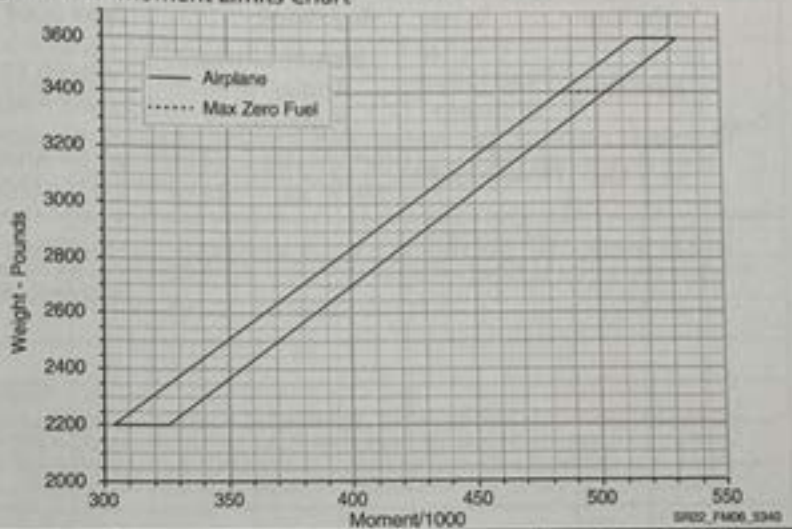
*130 lb Maximum

**92 U. S. Gallons Usable

## Moment Limits

Use the following chart or table to determine if the weight and moment from the completed Weight and Balance Loading Form (Figure 6-2) are within limits.

**Figure 6-4:** Moment Limits Chart




| Weight LB | Moment/1000 | | Weight LB | Moment/1000 | |
|---|---|---|---|---|---|
| | Minimum | Maximum | | Minimum | Maximum |
| 2200 | 304 | 326 | 2950 | 414 | 437 |
| 2250 | 311 | 333 | 3000 | 422 | 444 |
| 2300 | 318 | 341 | 3050 | 430 | 452 |
| 2350 | 325 | 348 | 3100 | 438 | 459 |
| 2400 | 332 | 356 | 3150 | 445 | 467 |
| 2450 | 340 | 363 | 3200 | 453 | 474 |
| 2500 | 347 | 370 | 3250 | 461 | 481 |
| 2550 | 354 | 378 | 3300 | 469 | 489 |
| 2600 | 361 | 385 | 3350 | 477 | 496 |
| 2650 | 368 | 393 | *3400 | 484 | 504 |
| 2700 | 375 | 400 | 3450 | 494 | 511 |
| 2750 | 383 | 407 | 3500 | 501 | 519 |
| 2800 | 391 | 415 | 3550 | 508 | 526 |
| 2850 | 399 | 422 | 3600 | 515 | 533 |
| 2900 | 407 | 430 | | | |

*NOTE: Maximum zero fuel weight.

# Section 9: Log of Supplements

## Table of Contents

# Section 6 - Weight & Balance

Refer to Section 6 - Weight and Balance of the basic POH for current weight and balance data. Use the following table to determine the Moment/1000 for deicing fluid to complete the Loading Form in the Weight and Balance Section of the basic POH.

- Total fluid tank capacity is 8.5 gallon (32L).
- Deicing fluid weight is 9.2 pounds per gallon.

| Gallons | Weight LB | Mom/ 1000@ Tank (FS148.0) | Gallons | Weight LB | Mom/ 1000@ Tank (FS148.0) | Gallons | Weight LB | Mom/ 1000@ Tank (FS148.0) |
|---|---|---|---|---|---|---|---|---|
| 0.1 | 0.9 | 0.14 | 3.3 | 30.4 | 4.49 | 6.5 | 59.8 | 8.85 |
| 0.2 | 1.8 | 0.27 | 3.4 | 31.3 | 4.63 | 6.6 | 60.7 | 8.99 |
| 0.3 | 2.8 | 0.41 | 3.5 | 32.2 | 4.77 | 6.7 | 61.6 | 9.12 |
| 0.4 | 3.7 | 0.54 | 3.6 | 33.1 | 4.90 | 6.8 | 62.6 | 9.26 |
| 0.5 | 4.6 | 0.68 | 3.7 | 34.0 | 5.04 | 6.9 | 63.5 | 9.40 |
| 0.6 | .5 | 0.82 | 3.8 | 35.0 | 5.17 | 7.0 | 64.4 | 9.53 |
| 0.7 | 6.4 | 0.95 | 3.9 | 35.9 | 5.31 | 7.1 | 65.3 | 9.67 |
| 0.8 | 7.4 | 1.09 | 4.0 | 36.8 | 5.45 | 7.2 | 66.2 | 9.80 |
| 0.9 | 8.3 | 1.23 | 4.1 | 37.7 | 5.58 | 7.3 | 67.2 | 9.94 |
| 1.0 | 9.2 | 1.36 | 4.2 | 38.6 | 5.72 | 7.4 | 68.1 | 10.08 |
| 1.1 | 10.1 | 1.50 | 4.3 | 39.6 | 5.85 | 7.5 | 69.0 | 10.21 |
| 1.2 | 11.0 | 1.63 | 4.4 | 40.5 | 5.99 | 7.6 | 69.9 | 10.35 |
| 1.3 | 12.0 | 1.77 | 4.5 | 41.4 | 6.13 | 7.7 | 70.8 | 10.48 |
| 1.4 | 12.9 | 1.91 | 4.6 | 42.3 | 6.26 | 7.8 | 71.8 | 10.62 |
| 1.5 | 13.8 | 2.04 | 4.7 | 43.2 | 6.40 | 7.9 | 72.7 | 10.76 |
| 1.6 | 14.7 | 2.18 | 4.8 | 44.2 | 6.54 | 8.0 | 73.6** | 10.89 |
| 1.7 | 15.6 | 2.31 | 4.9 | 45.1 | 6.67 | 8.1 | 74.5 | 11.03 |
| 1.8 | 16.6 | 2.45 | 5.0 | 46.0* | 6.81 | 8.2 | 75.4 | 11.17 |
| 1.9 | 17.5 | 2.59 | 5.1 | 46.9 | 6.94 | 8.3 | 76.4 | 11.30 |
| 2.0 | 18.4 | 2.72 | 5.2 | 47.8 | 7.08 | 8.4 | 77.3 | 11.44 |
| 2.1 | 19.3 | 2.86 | 5.3 | 48.8 | 7.22 | 8.5 | 78.2 | 11.57 |
| 2.2 | 20.2 | 3.00 | 5.4 | 49.7 | 7.35 | *Minimum Dispatch Fluid Qty | | |
| 2.3 | 21.2 | 3.13 | 5.5 | 50.6 | 7.49 | **Usable Tank Capacity | | |
| 2.4 | 22.1 | 3.27 | 5.6 | 51.5 | 7.62 | | | |
| 2.5 | 23.0 | 3.40 | 5.7 | 52.4 | 7.76 | | | |
| 2.6 | 23.9 | 3.54 | 5.8 | 53.4 | 7.90 | | | |
| 2.7 | 24.8 | 3.68 | 5.9 | 54.3 | 8.03 | | | |
| 2.8 | 25.8 | 3.81 | 6.0 | 55.2 | 8.17 | | | |
| 2.9 | 26.7 | 3.95 | 6.1 | 56.1 | 8.31 | | | |
| 3.0 | 27.6 | 4.08 | 6.2 | 57.0 | 8.44 | | | |
| 3.1 | 28.5 | 4.22 | 6.3 | 58.0 | 8.58 | | | |
| 3.2 | 29.4 | 4.36 | 6.4 | 58.9 | 8.71 | | | |

Duration Chart Notes:

- Bottle Capacity has been reduced 5% for safety
- PFOC not approved for use with 5 port manifold.
- The installation of this equipment does not affect or change the performance characteristics of the airplane, which are detailed in Section 5 of the primary portion of the *Pilot's Operating Handbook*. No change from basic Handbook.

## Section 6 – Weight & Balance

If the aircraft is equipped with the Precise Flight Fixed Oxygen System, it is the pilot's responsibility to verify the weight and balance of the aircraft is within limits prior to flight.

The weight, arm, and moment for fully charged systems (1800psig) are provided in Table 4. The total weight of oxygen in the system is 6.4lb and the actual weight and moment can be determined by oxygen pressure per Figure 26.

**Table 4 - Weight and Balance Information**

| | Weight - lb | Arm | Moment/1000 |
|---|---|---|---|
| Empty | 17.4 | 262.3 | 4565.7 |
| Full | 23.8 | 265.3 | 6316.4 |

## Section 7 – System Description

The general operating procedures for use of the Fixed Oxygen System is discussed in the Section 1 - General System Overview of this Supplement.