

**REVISION OF WEIGHT AND BALANCE DATA & EQUIPMENT LIST**

**AE:** MBL AVIATION SERVICES INC.  
 110 WOODKIRK LANE  
 CHAPEL HILL, NC. 27514-7422  
 N279CP  
 CIRRUS  
 SR22  
 3221

**DATE:** 05/08/2018  
**WO#:** 94771



| PREVIOUS EMPTY AIRCRAFT WEIGHT:          | WEIGHT                           | ARM    | M  |
|--|----------------------------------|--------|----|
| W&B DATED: 02/18/2006                    | 2407.50                          | 139.06 | 33 |
| <b><u>Following Equipment:</u></b>       |                                  |        |    |
| <b><u>VITH CIRRUS SB2X-95-19</u></b>     |                                  |        |    |
| T AND SHELF ASSEMBLY                     | 1.34                             | 231.4  |    |
| RICAL WIRING MODIFICATIONS               | 0.78                             | 116.0  |    |
| <b><u>VITH CIRRUS SB2X-23-05R1</u></b>   |                                  |        |    |
| 'DL 88 TRANSCIEVER                       | 3.70                             | 136.0  |    |
| 'DL 88 FORWARD ANTENNA                   | 0.20                             | 114.5  |    |
| CURRENT EMPTY AIRCRAFT WEIGHT            | 2413.52                          | 139.10 | 33 |
| TO WEIGHT: 3400 LBS      NEW USEFUL LOAD | 986.48                           |        |    |
| BY: WILLIAM WOLF                         | APPROVED BY: <i>William Wolf</i> |        |    |

'B-1

OLD AIRCRAFT

139.09

NOMENCLATURE WEIGHT ARM MOMENT

| NOMENCLATURE                            | WEIGHT | ARM  | MOMENT |
|---|--------|------|--------|
| Installed STC Airwolf air/oil separator | 1.5    | 90.0 | 135.0  |
|   |        |      | 0.0    |
|   |        |      | 0.0    |
|   |        |      | 0.0    |
|   |        |      | 0.0    |
|   |        |      | 0.0    |
|   |        |      | 0.0    |
|   |        |      | 0.0    |
|   |        |      | 0.0    |
|   |        |      | 0.0    |
|   |        |      | 0.0    |
|   |        |      | 0.0    |
|   |        |      | 0.0    |
|   |        |      | 0.0    |
|   |        |      | 0.0    |
|   |        |      | 0.0    |
|   |        |      | 0.0    |
|   |        |      | 0.0    |
|   |        |      | 0.0    |
|   |        |      | 0.0    |
|   |        |      | 0.0    |
|   |        |      | 0.0    |
|   |        |      | 0.0    |
|   |        |      | 0.0    |
|   |        |      | 0.0    |
|   |        |      | 0.0    |
|   |        |      | 0.0    |
|   |        |      | 0.0    |
|   |        |      | 0.0    |
|   |        |      | 0.0    |
|   |        |      | 0.0    |
|   |        |      | 0.0    |
|   |        |      | 0.0    |
|   |        |      | 0.0    |
|   |        |      | 0.0    |
|   |        |      | 0.0    |
|   |        |      | 0.0    |
|   |        |      | 0.0    |
|   |        |      | 0.0    |
|   |        |      | 0.0    |
|   | 1.5    |      | 135    |

Superseded  
05/08/18 W. W. W. W. W.

NEW AIRCRAFT EMPTY WEIGHT: 2407.5 lbs.

NEW AIRCRAFT EMPTY C.G.: 139.06 in.

NEW AIRCRAFT EMPTY MOMENT: 334793 MOM/1000= 334.793

INSPECTED BY: Jac & John J.

## Delivered Weight Data & Equipment List

Model SR22

Serial Number:

3221

Registration Number:

N279CP

Basic Empty Weight:

2406 lb

Total Moment/1000:

334.658

Center of Gravity:

F.S.139.1 or 12.5 MAC

Parachute Canopy Color:

Orange / White

*Superceded  
2-18-16  
gud*

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   |
|------------|-----------------------------|-----|-----|-------------|---------|-------|
| <b>21</b>  | <b>Air Conditioning</b>     |     |     |             |         |       |
| 21-01      | Blower Fan Only             | O   | -   | 20970-001   | 7.3     | 133.0 |
| 21-02      | Compressor                  | O   | 1   | 21119-003   | 15.0    | 93.1  |
| 21-03      | Condenser Assembly          | O   | 1   | 21209-001   | 17.0    | 132.8 |
| 21-04      | Evaporator Assembly         | O   | 1   | 21114-005   | 17.5    | 199.5 |
| <b>22</b>  | <b>AutoFlight</b>           |     |     |             |         |       |
| 22-01      | Sys 55X Autopilot Prgmmr    | S   | -   | 14779-002   | 3.0     | 123.3 |
| 22-01      | Garmin Autopilot Controller | S   | 1   | 24645-001   | 0.8     | 126.5 |
| 22-02      | Altitude Transducer         | S   | 1   | 12722-001   | 0.2     | 112.4 |
| <b>23</b>  | <b>Communications</b>       |     |     |             |         |       |
| 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 |
| <b>24</b>  | <b>Electrical Power</b>     |     |     |             |         |       |
| 24-01      | Alternator 1                | C   | 1   | 646843      | 12.3    | 61.8  |

| ATA / Item | Description   | Sym | Qty | Part Number      | Unit Wt | Arm   |
|------------|---|-----|-----|------------------|---------|-------|
| 24-02      | Alternator 2  | C   | -   | 13565-001        | 5.7     | 91.0  |
| 24-02      | Alternator 2  | C   | 1   | 657199           | 9.0     | 62.0  |
| 24-03      | MCU130 with Cables                                    | C   | -   | 19911-003        | 12.1    | 97.5  |
| 24-03      | MCU140 w/ Cables                                      | C   | 1   | 19799-001        | 13.9    | 97.5  |
| 24-05      | Battery 1   | C   | 1   | 53030-001        | 26.5    | 96.0  |
| 24-06      | Battery 2   | C   | -   | 50979-011        | 11.5    | 230.0 |
| 24-06      | Battery 2   | O   | 1   | 24557-002        | 21.4    | 230.0 |
| <b>25</b>  | <b>Equipment &amp; Furnishings</b>                    |     |     |                  |         |       |
| 25-01      | Emergency Locator Transmitter & Batteries (121.5 MHz) | O   | -   | 20220-001        | 3.6     | 228.8 |
| 25-02      | Emergency Locator Transmitter & Batteries (406 MHz)   | C   | 1   | 17190-100        | 3.4     | 229.5 |
| 25-03      | Fwd Seat & Restraint Inst. (Leather: add 0.4 lb each) | C   | 2   | 20907-40x        | 27.0    | 149.3 |
| 25-04      | Rear Seat Installation (Leather: add 0.4 lb each)     | C   | 2   | 13134-40x        | 21.8    | 180.0 |
| 25-05      | Rear Seat Restraint                                   | C   | 2   | 12491-001        | 2.3     | 180.0 |
| <b>26</b>  | <b>Fire Protection</b>                                |     |     |                  |         |       |
| 26-01      | Portable Fire Extinguisher                            | C   | 1   | 12533-003        | 1.5     | 118.4 |
| <b>27</b>  | <b>Flight Controls</b>                                |     |     |                  |         |       |
| 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      | Roll Servo GSA80                                      | O   | 1   | 24644-002        | 3.1     | 172.0 |
| 27-05      | Roll Servo Motor GSM85A                               | O   | 1   | 24644-012        | 1.6     | 172.0 |
| 27-06      | Pitch Trim Cartridge Assy                             | C   | 1   | 15560-002        | 0.4     | 310.9 |
| 27-07      | Pitch Trim Motor Assy                                 | C   | 1   | 11794-004        | 1.3     | 303.5 |
| 27-08      | Yaw Trim Cartridge Assy                               | C   | 1   | 11898-002        | 0.4     | 106.2 |
| 27-09      | Yaw Servo GSA81                                       | O   | 1   | 24644-001        | 2.2     | 236.0 |
| 27-10      | Yaw Servo Motor GSM85A                                | O   | 1   | 24644-011        | 1.6     | 236.0 |
| <b>28</b>  | <b>Fuel</b>   |     |     |                  |         |       |
| 28-01      | Fuel Quantity Indicator                               | C   | 1   | 13557-002        | 0.8     | 138.0 |
| 28-02      | Fuel Selector Valve                                   | C   | 1   | 11627-001        | 1.8     | 140.8 |
| 28-04      | Fuel Cap Assy   | S   | 2   | 18051-001        | 0.4     | 154.0 |
| 28-05      | Fuel Level Sender (OTBD)                              | C   | 2   | 18484-001        | 0.3     | 151.7 |
| 28-06      | Fuel Level Sender (INBD)                              | C   | 2   | 18483-001        | 0.3     | 155.7 |
| <b>30</b>  | <b>Ice &amp; Rain Protection</b>                      |     |     |                  |         |       |
| 30-01      | Propeller Slinger Ring                                | O   | 1   | 15321-001        | 1.5     | 55.0  |
| 30-02      | De-Icing Fluid Reservoir                              | O   | 1   | Integral to Wing | 9.2     | 148.4 |
| 30-03      | Metering Pump   | O   | 1   | 17351-001        | 5.0     | 181.3 |
| <b>31</b>  | <b>Indicating &amp; Recording</b>                     |     |     |                  |         |       |

| ATA / Item | Description                            | Sym | Qty | Part Number    | Unit Wt | Arm   |
|------------|--|-----|-----|----------------|---------|-------|
| 31-01      | Annunciator Panel                      | C   | 1   | 15262-001      | 0.3     | 117.2 |
| 31-02      | Hourmeter                              | S   | 2   | 12135-001      | 0.1     | 142.3 |
| <b>32</b>  | <b>Landing Gear</b>                    |     |     |                |         |       |
| 32-01      | Main Landing Gear Installation         | C   | 2   | 18560-001/ 002 | 34.0    | 157.5 |
| 32-02      | Main Landing Gear Fairing Installation | S   | 2   | 18143-001/002  | 14.3    | 157.5 |
| 32-03      | Brake Assembly                         | C   | 2   | 17122-103      | 3.2     | 157.5 |
| 32-04      | Main Wheels                            | C   | 2   | 17122-101      | 7.8     | 157.5 |
| 32-05      | Main Tire                              | C   | 2   | 14075-006      | 6.3     | 157.5 |
| 32-06      | Main Tube                              | C   | 2   | 14076-002      | 1.0     | 157.5 |
| 32-07      | Nose Landing Gear Installation         | C   | 1   | 18100-001      | 35.0    | 77.0  |
| 32-08      | Nose Wheel                             | C   | 1   | 12798-001      | 4.5     | 71.8  |
| 32-09      | Nose Tire 5.00 x 5                     | C   | 1   | 14075-003      | 4.3     | 71.8  |
| 32-10      | Nose Tire Tube                         | C   | 1   | 14076-001      | 1.0     | 71.8  |
| 32-11      | Nose Gear Fairing & Pant               | S   | 1   | 18303-001      | 5.2     | 78.0  |
| 32-12      | Brake Master Cylinder                  | C   | 4   | 14269-001      | 0.6     | 104.5 |
| 32-13      | Brake Fluid Reservoir                  | C   | 1   | 12006-001      | 0.4     | 98.1  |
| <b>33</b>  | <b>Lights</b>                          |     |     |                |         |       |
| 33-01      | L/R Strobe/Nav Lights                  | C   | 2   | 17140-001/002  | 0.6     | 161.8 |
| 33-02      | Strobe Power Supply (2)                | C   | 2   | 14286-002      | 1.7     | 147.8 |
| 33-03      | Landing Light Installation             | S   | 1   | 20248-004      | 1.9     | 80.0  |
| 33-03      | Recognition Light Installation         | S   | 2   | 18285-001/002  | 0.4     | 138.5 |
| <b>34</b>  | <b>Navigation &amp; Pitot Static</b>   |     |     |                |         |       |
| 34-01      | Avidyne FlightMax MFD                  | O   | -   | 14751-001      | 6.4     | 121.8 |
| 34-01      | Garmin 12" Display                     | O   | 1   | 24655-003      | 9.3     | 118.5 |
| 34-02      | Avidyne FlightMax PFD                  | O   | -   | 15222-001      | 12.0    | 115.5 |
| 34-02      | Garmin 12" Display                     | C   | 1   | 24655-004      | 9.3     | 117.0 |
| 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   | -   | 12717-050      | 1.5     | 121.5 |
| 34-13      | GMA 347, Audio Panel                   | O   | 1   | 24551-002      | 2.0     | 125.5 |
| 34-14      | GNS 420 (GPS/COM/NAV)                  | O   | -   | 12718-004      | 5.0     | 121.0 |
| 34-15      | GNS 430 (GPS/COM/NAV)                  | C   | -   | 12718-051      | 5.0     | 121.0 |
| 34-16      | GNS 430 (GPS/COM/NAV)                  | O   | -   | 12718-051      | 5.0     | 122.4 |
| 34-14      | GPS/NAV/COM#1 GIA63W                   | O   | 1   | 24662-001      | 6.3     | 110.5 |

|           |   |   |   |            |      |       |
|-----------|---|---|---|------------|------|-------|
| 34-15     | GPS/NAV/COM#2 GIA63W                      | O | 1 | 24662-001  | 6.3  | 111.0 |
| 34-19     | AIR DATA COMPUTER, GDC 74                 | O | 1 | 24651-001  | 2.0  | 112.5 |
| 34-20     | AHRS UNIT, GRS 77                         | O | 2 | 24661-001  | 3.3  | 110.0 |
| 34-21     | CO Detector                               | O | 1 | 19273-001  | 0.2  | 104.0 |
| 34-22     | FMS Keyboard, GCU 478                     | O | 1 | 24654-002  | 1.0  | 124.0 |
| 34-23     | ADF Installation                          | O | - | 24724-001  | 3.2  | 120.0 |
| 34-24     | ADF Antenna Installation                  | O | - | 24617-001  | 4.2  | 162.0 |
| 34-25     | DME Installation                          | O | - | 19353-001  | 2.8  | 122.0 |
| 34-26     | DME Antenna Installation                  | O | - | 24733-001  | 0.2  | 114.5 |
|           | <b>EMax Engine Monitoring</b>             |   |   |            |      |       |
| 34-17     | • Data Acquisition Unit                   | O | - | 16692-001  | 2.0  | 118.0 |
| 34-17     | Rack/Unit Installation, GEA 71            | O | 1 | 19256-001  | 2.2  | 111.5 |
| 34-18     | • Monitor Cabin Harness                   | O | - | 16695-005  | 2.0  | 108.0 |
|           | <b>Sky Watch Option</b>                   |   |   |            |      |       |
| 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 | 213.3 |
|           | <b>Stormscope Option</b>                  |   |   |            |      |       |
| 34-22     | • Processor                               | O | - | 12745-050  | 1.7  | 199.0 |
| 34-23     | • Antenna                                 | O | - | 12745-070  | 0.9  | 191.0 |
|           | <b>Transponder Option</b>                 |   |   |            |      |       |
| 34-24     | • Mode A/C Transponder                    | C | 1 | 24652-001  | 1.6  | 230   |
| 34-25     | • Mode S Transponder                      | O | - | 24653-001  | 2.6  | 230   |
|           |   |   | 1 |            |      |       |
|           | <b>XM Satellite Options</b>               |   |   |            |      |       |
| 34-27     | • XM WX / Radio Receiver                  | O | - | 16121-001  | 1.7  | 114.0 |
| 34-27     | XM FIGHTER TRANSPONDER                    | O | 1 | 19254-002  | 2.7  | 228.0 |
| 34-28     | • XM Radio Remote Control                 | O | 1 | 16665-501  | 0.2  | 149.3 |
| <b>35</b> | <b>Oxygen</b>                             |   |   |            |      |       |
| 35-01     | Bottle Assembly - Empty                   | O | - | 100N0020-4 | 17.4 | 262.3 |
|           | Full                                      |   |   |            | 23.8 | 265.3 |
| <b>61</b> | <b>Propeller</b>                          |   |   |            |      |       |
| 61-01     | Hartzell Propeller Installation           | C | 1 | 15319-00X  | 79.8 | 48.0  |
| 61-02     | Hartzell Composite Propeller Installation | O | - | 18974-001  | 67.2 | 48.0  |
| 61-02     | McCaughey Propeller Installation          | O | - | 15825-00X  | 78.0 | 50.0  |
| 61-03     | MT Propeller                              | O | - | 18606-00X  | 56.2 | 48.6  |

| ATA / Item | Description                               | Sym | Qty | Part Number   | Unit Wt | Arm   |
|------------|---|-----|-----|---------------|---------|-------|
| <b>71</b>  | <b>Power Plant</b>                        |     |     |               |         |       |
| 71-01      | Upper Cowl                                | C   | 1   | 20181-003     | 10.5    | 78.4  |
| 71-02      | Lower Cowl LH                             | C   | 1   | 20182-006     | 5.4     | 78.4  |
| 71-03      | Lower Cowl RH                             | C   | 1   | 18396-001     | 5.4     | 78.4  |
| 71-03      | Engine Baffling Installation              | C   | 1   | 15460-001     | 10.7    | 78.4  |
| <b>72</b>  | <b>Engine</b>                             |     |     |               |         |       |
| 72-01      | Engine                                    | C   | 1   | 14057-00X     | 414.5   | 76.5  |
| 72-02      | Engine Mount Assembly                     | C   | 1   | 16546-001     | 22.0    | 76.5  |
| 72-03      | Induction Filter                          | C   | 1   | 50207-001     | 0.4     | 62.9  |
| 72-04      | Reiff Heater                              | O   | -   | L-6           | 1.9     | 76.0  |
| <b>73</b>  | <b>Engine Fuel</b>                        |     |     |               |         |       |
| 73-01      | Engine Driven Fuel Pump                   | C   | 1   | 655921-1A5    | 3.2     | 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  |
| <b>74</b>  | <b>Engine Ignition</b>                    |     |     |               |         |       |
| 74-01      | Spark Plugs                               | C   | 12  | RHB32E        | 0.3     | 78.4  |
| 74-02      | Magnetos (L & R)                          | C   | 2   | 10-500556-1   | 11.5    | 74.5  |
| 74-03      | Ignition Switch Installation              | C   | 1   | 11915-003     | 0.5     | 123.0 |
| <b>78</b>  | <b>Engine Exhaust</b>                     |     |     |               |         |       |
| 78-01      | Heater Muffler                            | S   | 1   | 14837-001     | 7.2     | 87.0  |
| 78-02      | LH Muffler                                | S   | 1   | 14836-001     | 2.8     | 86.0  |
| 78-03      | Tailpipe                                  | S   | 2   | 20516-001     | 2.9     | 99.0  |
| <b>79</b>  | <b>Oil</b>                                |     |     |               |         |       |
| 79-01      | Engine Oil Cooler                         | S   | 1   | 10281A        | 7.8     | 90.0  |
| 79-02      | Oil Filter                                | S   | 1   | CH48108       | 1.5     | 93.4  |
| <b>80</b>  | <b>Starting</b>                           |     |     |               |         |       |
| 80-01      | 24-volt Starter                           | S   | 1   | ES-646275-1   | 15.0    | 93.0  |
| <b>81</b>  | <b>Turbines-SA10588SC &amp; SE10589SC</b> |     |     |               |         |       |
| 81-01      | LH Turbocharger                           | C   | -   | ETI-SR22-2000 | 15.0    | 84.0  |
| 81-02      | RH Turbocharger                           | C   | -   | ETI-SR22-1300 | 15.0    | 84.0  |
| 81-03      | LH Intercooler                            | C   | -   | ETI-G2-500-1  | 5.0     | 83.0  |
| 81-04      | RH Intercooler                            | C   | -   | ETI-G2-500-2  | 5.0     | 83.0  |
| 81-05      | Lower Cowl Modification                   | C   | -   | NA            | 0.8     | 81.0  |
| 81-06      | Air Filter Box and Retainer               | C   | -   | NA            | 1.5     | 63.0  |
| <b>95</b>  | <b>Special Equipment</b>                  |     |     |               |         |       |
| 95-01      | Packed Parachute (CAPS)                   | C   | 1   | 20331-001     | 54.0    | 235.5 |
| 95-02      | Airplane Flight Manual                    | C   | 1   | 13772-002     | 1.2     | -     |