

**PILOT'S OPERATING HANDBOOK**  
**AND FAA APPROVED**  
**AIRPLANE FLIGHT MANUAL**

for the CIRRUS DESIGN SR22T

Aircraft Serials 1460, 1471, 1473 & Subsequent with Continental Motors  
Turbocharged Engine and Cirrus Perspective+ Avionics System



FAA Approved in Normal Category based on 14 CFR 23. This document must be carried in the airplane at all times and be kept within the reach of the pilot during all flight operations.

THIS MANUAL INCLUDES THE MATERIAL REQUIRED TO BE FURNISHED TO THE PILOT BY 14 CFR 23 AND ADDITIONAL INFORMATION PROVIDED BY CIRRUS AIRCRAFT AND CONSTITUTES THE FAA APPROVED AIRPLANE FLIGHT MANUAL.

Model - Serial #:

Registration #:

FAA Approved

[Redacted Signature]

Jan 15, 2020  
Date

Manager, Southwest Flight Test Section, AIR-713  
Federal Aviation Administration  
Ft. Worth, TX

<b>Meteorological Terminology (Continued)</b>	
<b>Terminology</b>	<b>Definition</b>
MSL	Mean Sea Level is the average height of the surface of the sea for all stages of tide. In this Handbook, altitude given as MSL is the altitude above the mean sea level. It is the altitude read from the altimeter when the altimeter's barometric adjustment has been set to the altimeter setting obtained from ground meteorological sources.
OAT	Outside Air Temperature is the free air static temperature obtained from in-flight temperature indications or from ground meteorological sources. It is expressed in either °C or °F.
PA	Pressure Altitude is the altitude read from the altimeter when the altimeter's barometric adjustment has been set to 29.92 in.Hg (1013.21 mb) corrected for position and instrument error. In this Handbook, altimeter instrument errors are assumed to be zero.
Standard Temperature	Standard Temperature is the temperature that would be found at a given pressure altitude in the standard atmosphere. It is 59 °F (15 °C) at sea level pressure altitude and decreases approximately 4 °F (2 °C) for each 1000 feet of altitude increase. See ISA definition.

System, Instrument and/or Equipment	Kinds of Operation				Remarks, Notes, and/or Exceptions
	VFR Day	VFR Night	IFR Day	IFR Night	
Oil Quantity Indicator (Dipstick)	1	1	1	1	
Oil Temperature Indication	1	1	1	1	
Turbine Inlet Temperature Indication	1	1	1	1	
Engine Speed	1	1	1	1	
<b>SPECIAL EQUIPMENT</b>					
Cirrus Airframe Parachute (CAPS)	1	1	1	1	

### **Icing**

Flight into known icing conditions is prohibited.

### **Runway Surface**

This airplane may be operated on any smooth runway surface.

### **Taxi Power**

Maximum continuous engine speed for taxiing is 1000 RPM on flat, smooth, hard surfaces. Power settings slightly above 1000 RPM are permissible to start motion, for turf, soft surfaces, and on inclines. Use minimum power to maintain taxi speed.

### **Fuel Limits**

Approved Fuel..... Aviation Grade 100 LL (Blue) or 100 (Green)  
 Total Fuel Capacity..... 94.5 U.S. gallons (358.0 L)  
 Total Fuel Each Tank ..... 47.25 U.S. gallons (179.0 L)  
 Total Usable Fuel (all flight conditions) ..... 92.0 U.S. gallons (348.0 L)  
 Maximum Allowable Fuel Imbalance..... 10.0 U.S. gallons (37.9 L)

The fuel pump must be set to BOOST for takeoff, climb, landing, and for switching fuel tanks.

## **Range / Endurance Profile: Full Power Climb**

**Conditions:**

- Weight.....3600 LB for Climb, Avg 3400 LB for Cruise
- Winds ..... Zero
- Mixture..... Best Economy - Target Fuel Flow or less
- Total Fuel.....92 Gallons

**• NOTE •**

Fuel Remaining for Cruise is equal to 92.0 gallons usable, less 1.5 gallons (pre-takeoff fuel consumed), 11 gallons (45 minute IFR reserve at 65% power), and listed volume for fuel consumed in Full Power Climb.

Range is decreased by 5% if nose wheel pant and fairings removed.  
Range is decreased by 15% if nose and main wheel pants and fairings removed.

Aircraft with optional Air Conditioning System: Range is decreased by 1% if system in operation. For maximum range, the Air Conditioner should be OFF.

Aircraft with optional Enhanced Vision System: Range is decreased by ½%.

<b>85% POWER</b>				<b>Mixture = Full Power</b>			
<b>Press Alt</b>	<b>Climb Fuel</b>	<b>Fuel Remaining For Cruise</b>	<b>Airspeed</b>	<b>Fuel Flow</b>	<b>Endurance</b>	<b>Range</b>	<b>Specific Range</b>
<b>FT</b>	<b>GAL</b>	<b>GAL</b>	<b>KTAS</b>	<b>GPH</b>	<b>HOURS</b>	<b>NM</b>	<b>NM/GAL</b>
2000	1.0	78.5	170	18.3	4.3	734	9.3
4000	2.1	77.5	174	18.3	4.2	742	9.5
6000	3.2	76.4	177	18.3	4.2	749	9.7
8000	4.3	75.3	180	18.3	4.1	756	9.8
10000	5.4	74.2	184	18.3	4.0	763	10.0
12000	6.5	73.0	187	18.3	4.0	770	10.2
14000	7.7	71.9	191	18.3	3.9	777	10.4
16000	8.9	70.7	194	18.3	3.9	784	10.6
18000	10.1	69.4	198	18.3	3.8	791	10.8