

FAA APPROVED AIRPLANE FLIGHT MANUAL

for the CIRRUS VISION SF50

with Cirrus Perspective Touch+ Avionics System
and FL310 Maximum Operating Altitude



FAA Approved in Normal Category based on FAR 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 FAR PART 23 AND ADDITIONAL INFORMATION PROVIDED BY CIRRUS AIRCRAFT AND CONSTITUTES THE FAA APPROVED AIRPLANE FLIGHT MANUAL.

Model - Serial #:

Registration #:

FAA Approved

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Section 2: Limitations

Table of Contents

Introduction.....	5
Certification Status	5
RVSM	5
Taxiing, Takeoff, and Landing Limitations.....	6
Operational Limits	6
Airspeed Limitations.....	6
Operating Speeds	6
Minimum Maneuvering Speeds	7
Flap Speeds	7
Landing Gear Speeds	7
Airspeed Indicator Markings.....	8
Powerplant Limitations	8
Operational Limits	8
Engine Limit Exceedances	10
Fuel	10
Oil	11
Landing Gear Hydraulic Fluid and Brake Fluid.....	11
Engine Start.....	11
Engine Start (General)	11
Engine Start (Ground)	11
Start Abort Criteria.....	12
Engine Start (In flight).....	12
Starter Generator Limits (Start Mode)	12
Engine Instrument Markings & Annunciations.....	14
Powerplant	14
Fuel	16
Electrical.....	17
Weight Limits.....	18
Center of Gravity Limits.....	18
Maneuver Limits.....	20
Configuration Limitations.....	20
Maximum demonstrated crosswind	20
Flight Load Factor Limits	20
Kinds of Operation.....	20
Maximum Operating Altitude Limit	20
Outside Air Temperature Limits.....	21

Weight Limits

• NOTE •

The airplane must be operated in accordance with the approved loading schedule.

Max. Takeoff Gross Wt. (MTOGW).....	6000 lb (2722 kg)
Maximum Landing Weight (MLW)	5550 lb (2517 kg)
Maximum Ramp Weight (MRW)	6040 lb (2740 kg)
Max. Zero Fuel Weight (MZFW)	4900 lb (2223 kg)
Maximum Aft Baggage Compartment	300 lb (136 kg) ¹
Maximum Cargo X-Tend Compartment	40 lb (18 kg)

Center of Gravity Limits

CG Envelope	Weight (lb)	FS (inches)
Forward Light	4000	189.44
Forward Intermediate	4700	189.44
Forward Gross	6000	192.55
Aft Gross	6000	198.15
Aft Intermediate	5200	198.15
Aft Light	3600	196.28

• Note •

Specifications for weight and balance data are defined in detail in Section 6: Weight and Balance, "Weight and Balance Data".

1. Includes Cargo X-Tend weight limit.

Section 5: Performance Data

Table of Contents

Introduction.....	5
Standard Charts	5
Associated Conditions Affecting Performance	5
Temperature Conversion.....	6
OAT for International Standard Atmosphere (ISA) Condition.....	7
Pressure Conversion - Inches of Mercury to Millibars	8
Fuel Quantity Conversion - U.S. Gallons to Liters	9
Weight Conversion - Pounds to Kilograms.....	10
Distance Conversion: Feet to Meters	11
Length Conversion: Inches to Centimeters	12
Static Source Error Correction	13
Airspeed Correction.....	13
Altitude Correction, Flaps: 0%.....	15
Altitude Correction, Flaps: 50%.....	17
Altitude Correction, Flaps: 100%.....	18
Stall Speeds	19
Stall Speeds (Ice Cont/STALL SPEED HIGH)	20
WING/STAB IPS: ON	20
Wind Components.....	21
Takeoff Power Setting (N1)	21
Takeoff Distance	24
Takeoff Weight: 6000 lb (2722 kg)	24
Engine Anti-Ice: A/R	24
Takeoff Weight: 5500 lb (2495 kg)	26
Engine Anti-Ice: A/R	26
Takeoff Distance: 5000 lb (2268 kg)	28
Engine Anti-Ice: A/R	28
Gear UP, Flaps 50%	30
Takeoff Climb Gradient	30
Takeoff Rate of Climb.....	36
Enroute Obstacle Climb	42
Engine Anti-Ice: Off	42
Engine Anti-Ice: On	47
Enroute Climb.....	51
Climb Gradient	51
Rate Of Climb.....	60

Takeoff Distance

Takeoff Weight: 6000 lb (2722 kg)

Engine Anti-Ice: A/R

Winds Calm
Runway Dry, Level, Paved
Thrust Lever T/O
Landing Gear DOWN
Flaps 50%
BLEED Switch ON

Headwind: Subtract 7% from the ground run and 6% from the total distance for every 10 knots of headwind.

Tailwind: Add 40% to the ground run and 35% to the total distance for every 10 knots of tailwind.

Downhill gradient: Subtract 2% from the ground run for every 1% of downhill gradient.

Uphill gradient: Add 14% to the ground run for every 1% of uphill gradient.

Unpaved runway: Add 21% to the total distance.

• NOTE •

The total distance is over a 50-foot (15-meter) obstacle.
Performance table below considers engine anti-ice off or on
(maximum OAT for activation of Engine IPS is 10° C).

Takeoff Weight: 6000 lb (2722 kg)										
Press Alt Feet	Distance Feet	TEMPERATURE ~°C								ISA
		-20	-10	0	10	20	30	40	50	
SL	Gnd Roll	1780	1851	1924	1999	2231	2757	3418	4284	2036
	Total	2789	2900	3014	3133	3519	4415	5561	7093	3192
1000	Gnd Roll	1855	1928	2005	2084	2386	2947	3652	4591	2106
	Total	2907	3022	3142	3268	3773	4732	5959	7626	3302
2000	Gnd Roll	1930	2007	2086	2169	2586	3193	3970	5005	2175
	Total	3025	3146	3271	3402	4104	5147	6505	8350	3411
3000	Gnd Roll	2006	2087	2170	2331	2806	3466	4323	5462	2316
	Total	3145	3272	3403	3666	4471	5609	7113	9156	3642
4000	Gnd Roll	2084	2168	2255	2533	3048	3768	4711	5967	2452
	Total	3268	3400	3536	4000	4875	6122	7787	10,051	3864
5000	Gnd Roll	2165	2252	2340	2737	3289	4069	5094		2542
	Total	3395	3532	3670	4336	5278	6634	8451		4009
6000	Gnd Roll	2242	2332	2446	2983	3585	4440	5574		2613
	Total	3515	3657	3838	4747	5778	7271	9292		4121
7000	Gnd Roll	2329	2439	2666	3291	3960	4905	6178		2737
	Total	3651	3827	4201	5263	6416	8078	10,361		4321
8000	Gnd Roll	2457	2692	2942	3677	4429	5488	6932		2920
	Total	3853	4241	4654	5912	7216	9091	11,698		4619
9000	Gnd Roll	2735	2996	3297	4141	4996	6197			3212
	Total	4308	4740	5242	6693	8187	10,325			5100
10,000	Gnd Roll	3046	3336	3708	4661	5637	7005			3529
	Total	4817	5299	5926	7575	9289	11,741			5624

Takeoff Weight: 5500 lb (2495 kg)

Engine Anti-Ice: A/R

Winds Calm
Runway Dry, Level, Paved
Thrust Lever T/O
Landing Gear DOWN
Flaps 50%
BLEED Switch ON

Headwind: Subtract 7% from the ground run and 6% from the total distance for every 10 knots of headwind.

Tailwind: Add 40% to the ground run and 36% to the total distance for every 10 knots of tailwind.

Downhill gradient: Subtract 1% from the ground run for every 1% of downhill gradient.

Uphill gradient: Add 13% to the ground run for every 1% of uphill gradient.

Unpaved runway: Add 21% to the total distance.

• NOTE •

The total distance is over a 50-foot (15-meter) obstacle.
Performance table below considers engine anti-ice off or on
(maximum OAT for activation of Engine IPS is 10° C).

Takeoff Weight: 5500 lb (2495 kg)										
Press Alt Feet	Distance Feet	TEMPERATURE ~°C								ISA
		-20	-10	0	10	20	30	40	50	
SL	Gnd Roll	1632	1697	1763	1833	2045	2528	3133	3927	1867
	Total	2458	2555	2656	2761	3099	3885	4887	6227	2812
1000	Gnd Roll	1700	1768	1838	1911	2187	2702	3348	4209	1931
	Total	2561	2663	2769	2879	3322	4163	5236	6693	2910
2000	Gnd Roll	1769	1840	1912	1989	2370	2927	3640	4588	1994
	Total	2666	2772	2882	2998	3613	4526	5714	7327	3006
3000	Gnd Roll	1839	1913	1989	2137	2572	3177	3963	5006	2123
	Total	2771	2883	2998	3230	3935	4931	6247	8031	3208
4000	Gnd Roll	1911	1988	2067	2322	2794	3454	4318	5469	2247
	Total	2880	2996	3116	3523	4290	5381	6836	8813	3404
5000	Gnd Roll	1985	2064	2145	2508	3015	3730	4669	5919	2330
	Total	2991	3112	3234	3818	4643	5829	7417	9572	3531
6000	Gnd Roll	2055	2138	2242	2735	3286	4070	5109	6487	2395
	Total	3097	3222	3381	4178	5081	6387	8153	10,540	3629
7000	Gnd Roll	2135	2236	2444	3017	3630	4497	5663		2509
	Total	3217	3372	3700	4631	5641	7094	9088		3806
8000	Gnd Roll	2252	2468	2697	3370	4060	5031	6355		2677
	Total	3395	3735	4098	5200	6342	7980	10,256		4068
9000	Gnd Roll	2507	2747	3023	3796	4580	5681	7201		2944
	Total	3794	4174	4615	5885	7192	9060	11,690		4490
10,000	Gnd Roll	2792	3058	3399	4273	5167	6422	8167		3235
	Total	4242	4665	5215	6658	8157	10,298	13,340		4950

Takeoff Distance: 5000 lb (2268 kg)

Engine Anti-Ice: A/R

WindsCalm
Runway..... Dry, Level, Paved
Thrust LeverT/O
Landing Gear DOWN
Flaps50%
BLEED SwitchON

Headwind: Subtract 7% from the ground run and 6% from the total distance for every 10 knots of headwind.

Tailwind: Add 40% to the ground run and 36% to the total distance for every 10 knots of tailwind.

Downhill gradient: Subtract 1% from the ground run for every 1% of downhill gradient.

Uphill gradient: Add 12% to the ground run for every 1% of uphill gradient.

Unpaved runway: Add 21% to the total distance.

• NOTE •

The total distance is over a 50-foot (15-meter) obstacle.
Performance table below considers engine anti-ice off or on
(maximum OAT for activation of Engine IPS is 10° C).

Takeoff Weight: 5000 lb (2268 kg)										
Press Alt Feet	Distance Feet	TEMPERATURE ~°C								ISA
		-20	-10	0	10	20	30	40	50	
SL	Gnd Roll	1483	1542	1603	1666	1859	2298	2848	3570	1697
	Total	2147	2232	2320	2412	2706	3388	4257	5417	2457
1000	Gnd Roll	1546	1607	1671	1737	1988	2456	3044	3826	1755
	Total	2237	2326	2418	2515	2900	3629	4560	5821	2541
2000	Gnd Roll	1608	1672	1739	1808	2155	2661	3309	4171	1813
	Total	2328	2421	2518	2618	3153	3945	4975	6370	2625
3000	Gnd Roll	1671	1739	1808	1942	2338	2889	3602	4551	1930
	Total	2420	2518	2619	2820	3433	4297	5437	6980	2801
4000	Gnd Roll	1737	1807	1879	2111	2540	3140	3926	4972	2043
	Total	2515	2617	2721	3076	3741	4688	5948	7657	2972
5000	Gnd Roll	1804	1877	1950	2280	2741	3391	4245	5381	2118
	Total	2613	2718	2825	3332	4049	5077	6452	8315	3083
6000	Gnd Roll	1868	1943	2038	2486	2987	3700	4645	5897	2177
	Total	2705	2814	2953	3645	4429	5561	7090	9153	3169
7000	Gnd Roll	1941	2033	2222	2742	3300	4088	5148	6568	2281
	Total	2810	2945	3231	4039	4915	6174	7899	10,254	3322
8000	Gnd Roll	2048	2243	2451	3064	3691	4574	5777	7406	2434
	Total	2966	3261	3577	4533	5523	6942	8910	11,629	3551
9000	Gnd Roll	2279	2497	2748	3451	4163	5164	6546	8364	2677
	Total	3313	3643	4026	5129	6261	7878	10,152	13,204	3918
10,000	Gnd Roll	2538	2780	3090	3885	4697	5838	7425	9411	2941
	Total	3702	4071	4548	5800	7099	8951	11,579	14,932	4318