

SR22 Pilot's Operating Handbook Temporary Change

Affected Manual: SR22 POH (P/N 13772-001)
Serials Affected: Serials 0002 thru 2333, 2335 thru 2419, 2421 thru 2437, and 2439 and subsequent

Filing Instructions: Insert this temporary change adjacent to page 5-18 in the SR22 POH and retain until further notice.

Purpose: Revise Takeoff Distances.

Takeoff Distance

- See following pages -

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Takeoff Distance

Conditions:

- Winds..... Zero
- Runway..... Dry, Level, Paved
- Flaps..... 50%
- Power..... Full Throttle
- Mixture..... Set per Placard

Example:

Outside Air Temp	20°C
Weight.....	3400 LB
Pressure Altitude.....	2000 FT
Headwind	Zero
Runway	Dry, Paved
Liftoff Speed.....	72 KIAS
Obstacle Speed	78 KIAS
Takeoff Ground Roll	1299 FT
Dist. over 50' Obstacle	1995 FT

Factors:

The following factors are to be applied to the computed takeoff distance for the noted condition:

- Headwind - Subtract 10% from computed distance for each 12 knots headwind.
- Tailwind - Add 10% for each 2 knots tailwind up to 10 knots.
- Grass Runway, Dry - Add 20% to ground roll distance.
- Grass Runway, Wet - Add 30% to ground roll distance.
- Sloped Runway - Increase table distances by 22% of the ground roll distance at Sea Level, 30% of the ground roll distance at 5000 ft, 43% of the ground roll distance at 10,000 ft for each 1% of upslope. Decrease table distances by 7% of the ground roll distance at Sea Level, 10% of the ground roll distance at 5000 ft, and 14% of the ground roll distance at 10,000 ft for each 1% of downslope.

• Caution •

The above corrections for runway slope are required to be included herein. These corrections should be used with caution since published runway slope data is usually the net slope from one end of the runway to the other. Many runways will have portions of their length at greater or lesser slopes than the published slope, lengthening (or shortening) takeoff ground roll estimated from the table.

- If brakes are not held while applying power, distances apply from point where full throttle and mixture setting is complete.
- For operation in outside air temperatures colder than this table provides, use coldest data shown.
- For operation in outside air temperatures warmer than this table provides, use extreme caution.

Takeoff Distance

PRESS ALT FT		DISTANCE FT	TEMPERATURE ~ °C					ISA
			0	10	20	30	40	
SL	Grnd Roll	917	990	1067	1146	1229	1028	
	50 ft	1432	1539	1650	1764	1883	1594	
1000	Grnd Roll	1011	1092	1176	1264	1355	1117	
	50 ft	1574	1691	1813	1939	2069	1728	
2000	Grnd Roll	1116	1206	1299	1395	1496	1215	
	50 ft	1732	1861	1995	2133	2276	1874	
3000	Grnd Roll	1234	1332	1435	1542	1653	1323	
	50 ft	1907	2049	2196	2349	2507	2035	
4000	Grnd Roll	1365	1474	1588	1706	1829	1441	
	50 ft	2102	2259	2422	2590	2764	2212	
5000	Grnd Roll	1512	1633	1758	1889	2025	1572	
	50 ft	2320	2493	2673	2858	3051	2407	
6000	Grnd Roll	1676	1810	1950	2095	2245	1717	
	50 ft	2564	2755	2953	3159	3371	2622	
7000	Grnd Roll	1861	2009	2164	2325	2492	1877	
	50 ft	2837	3048	3267	3494	3729	2859	
8000	Grnd Roll	2068	2233	2405	2584	2770	2054	
	50 ft	3142	3376	3619	3871	4131	3122	
9000	Grnd Roll	2302	2485	2677	2875	3082	2250	
	50 ft	3485	3744	4014	4293	4581	3412	
10000	Grnd Roll	2564	2769	2982	3204	3434	2468	
	50 ft	3870	4158	4457	4767	5088	3733	

Takeoff Distance

<p>WEIGHT = 2900 LB Speed at Liftoff = 70 KIAS Speed over 50 Ft Obstacle = 74 KIAS Flaps - 50% · Takeoff Pwr · Dry Paved</p>	<p>Headwind: Subtract 10% for each 12 knots headwind. Tailwind: Add 10% for each 2 knots tailwind up to 10 knots. Runway Slope: Ref. Factors. Dry Grass: Add 20% to Ground Roll. Wet Grass: Add 30% to Ground Roll.</p>
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PRESS ALT FT	DISTANCE FT	TEMPERATURE ~ °C					ISA
		0	10	20	30	40	
SL	Grnd Roll	610	659	710	763	818	684
	50 ft	971	1043	1118	1195	1275	1080
1000	Grnd Roll	673	727	783	841	902	743
	50 ft	1066	1146	1228	1313	1401	1170
2000	Grnd Roll	743	802	864	929	995	809
	50 ft	1173	1260	1351	1444	1541	1269
3000	Grnd Roll	821	887	955	1026	1100	880
	50 ft	1292	1388	1487	1590	1697	1378
4000	Grnd Roll	908	981	1057	1135	1217	959
	50 ft	1424	1530	1639	1753	1871	1498
5000	Grnd Roll	1006	1086	1170	1257	1348	1046
	50 ft	1571	1688	1809	1935	2065	1630
6000	Grnd Roll	1116	1205	1298	1394	1494	1143
	50 ft	1736	1865	1999	2138	2281	1775
7000	Grnd Roll	1238	1337	1440	1547	1659	1249
	50 ft	1920	2063	2211	2365	2523	1936
8000	Grnd Roll	1376	1486	1601	1720	1843	1367
	50 ft	2127	2285	2449	2619	2795	2113
9000	Grnd Roll	1532	1654	1781	1914	2051	1498
	50 ft	2359	2534	2716	2904	3099	2309
10000	Grnd Roll	1707	1843	1985	2132	2285	1643
	50 ft	2619	2814	3016	3225	3441	2527