

CESSNA 182R SKYLANE Model Guide

The CESSNA 182R SKYLANE is a four-seat, single-engine piston airplane powered by a 230 hp Continental O-470-U with a McCauley propeller. Listed figures are a 3100 lb maximum takeoff weight, 1450 lb useful load, 92 gal of fuel and about 700 nm of range. It is a heavy, stable cross-country airplane, and loading near the forward CG limit is the main handling point.

KEY TAKEAWAYS

- Listed: 230 hp O-470-U, 3100 lb max takeoff weight, 1450 lb useful load, 92 gal fuel.
- Listed cruise is 120 kts at 12 gph, with about 700 nm of range and a 20000 ft service ceiling.
- Two people up front with no baggage puts the CG near the forward limit and makes the flare harder.
- Check the electrical system history and the installed avionics and supplements against the paperwork.

MODEL HISTORY AND ENGINE

The training manual says the C182R raised takeoff weight to 3100 lb and lifted the 20-degree flap limit to 120 kts. The Q model before it brought 2400 rpm maximum and 28V electrics. The AOPA article says the O-470-U arrived in 1977 and that the post-1978 28-volt system caused problems and expense, so review electrical records.

LOADING AND PERFORMANCE

Listed figures: 120 kts cruise at 12 gph, 700 fpm climb, 20000 ft ceiling, 1500 ft takeoff and 1200 ft landing distance. AOPA reports 144 knots at 12.8 gph at 75% power (2,400 rpm, 22 inches) at 6,000 feet. With two people up front and no baggage, the CG sits near the forward limit and the airplane is harder to flare.

WHAT TO CHECK WHEN BUYING

A club C182R checklist drains 5 fuel sumps, pulls the nose fuel strainer for 4 seconds, checks the carburetor heat RPM drop and allows a magneto drop of 150 max with 50 max difference. One 182R example has Garmin G5 and G3X Touch flight manual supplements, so confirm the avionics match the paperwork.

SPECIFICATIONS

Engine Hp	230
Fuel Capacity Gal	92
Range Nm	700
Wingspan Ft	36
Length Ft	29
Height Ft	8
Empty Weight Lbs	1650
Max Takeoff Weight Lbs	3100

PERFORMANCE

Cruise Speed Kts	120
Max Speed Kts	140
Fuel Burn Gph	12
Rate Of Climb Fpm	700
Service Ceiling Ft	20000
Takeoff Distance Ft	1500
Landing Distance Ft	1200
Max Crosswind Kts	15

V-SPEEDS

Vso Kts	50
Vs1 Kts	60
Vr Kts	65
Vx Kts	70
Vy Kts	75
Vfe Kts	110
Vno Kts	125
Vne Kts	160

WEIGHT & BALANCE

Max Takeoff Weight Lbs	3100
Max Ramp Weight Lbs	3110
Max Landing Weight Lbs	2950
Basic Empty Weight Lbs	1650
Useful Load Lbs	1450
Baggage Allowance Lbs	200
Cg Forward Inches	35
Cg Aft Inches	45

SAFETY NOTES

- Training material warns that weights, flap limits and speeds vary between models. Use the flight manual for the exact airplane you fly.
- Float gross weight increases of 3,370 or 3,500 lb for the 182R need an AirPlains IO-550 conversion with Wipline 3000 floats.
- Keep the CG between 35 and 45 inches and takeoff weight at or below 3100 lb.