

Cessna R182 Skylane RG Model Guide

The Cessna R182 Skylane RG is a four-seat, high-wing, single-engine piston airplane with retractable landing gear, built from 1978 to 1986. It has a 235 hp Lycoming O-540 and a constant-speed McCauley propeller. Handbook figures show 156 kt cruise at 7500 ft and a 3100 lb maximum takeoff weight, with 56 gal usable fuel in the standard tanks.

KEY TAKEAWAYS

- Four seats, 235 hp Lycoming O-540, retractable gear, produced 1978 to 1986.
- Handbook: 160 kt max at sea level, 156 kt cruise at 7500 ft, 1140 fpm climb, 14,300 ft service ceiling.
- Max takeoff weight is 3100 lb and standard-tank useful load is 1378 lb. Check the weight and balance of the specific airplane.
- Standard tanks hold 61 gal (56 usable). Long-range tanks hold 80 gal (75 usable). Confirm which are fitted.

PERFORMANCE AND RANGE

Handbook figures: takeoff ground roll 820 ft, 1570 ft over a 50-ft obstacle; landing roll 600 ft, 1320 ft over 50 ft. Stall speed is 54 kt flaps up and 50 kt flaps down, power off. Range at 7500 ft cruise power is 520 nm on 56 gal usable and 740 nm on 75 gal usable, with a 45 minute reserve.

WHAT TO CHECK WHEN BUYING

Handbook preflight items: green gear-down light, fuel strainer and sump drains, carburetor air inlet, and oil not below six quarts. Magneto drop must not exceed 175 RPM. Service manual temporary revisions add component time limits, a fuel quantity indicating system test, and crack stop-drilling for corrugated control-surface skins. Ask for records showing these were done.

KEY OPERATING SPEEDS

Extend the gear below 140 KIAS. Normal climb is 80 KIAS flaps up or 70 KIAS with flaps 20. Short-field takeoff climb is 59 KIAS and short-field landing approach is 64 KIAS. Best glide is 80 KIAS at 3100 lb. Maneuvering speed is 112 KIAS at 3100 lb.

SPECIFICATIONS

Wingspan Ft	36
Length Ft	28.43
Height Ft	8.75
Engine Power Hp	235
Fuel Capacity Gal	61
Usable Fuel Gal	56
Empty Weight Lbs	1782
Propeller Diameter In	82

PERFORMANCE

Max Speed Sea Level Kts	160
Cruise Speed Kts	156
Rate Of Climb Fpm	1140
Service Ceiling Ft	14300
Takeoff Ground Roll Ft	820
Takeoff Over 50ft Ft	1570
Landing Ground Roll Ft	600
Stall Speed Flaps Up Kts	54

V-SPEEDS

Maneuvering Speed At 3100 Lbs Kts	112
Maneuvering Speed At 2550 Lbs Kts	101
Maneuvering Speed At 2000 Lbs Kts	89
Best Glide At 3100 Lbs Kts	80
Short Field Climb Kts	59
Short Field Approach Kts	64
Max Gear Extension Kts	140

WEIGHT & BALANCE

Max Takeoff Weight Lbs	3100
Max Ramp Weight Lbs	3112
Basic Empty Weight Lbs	1782
Standard Empty Weight Lbs	1734
Max Useful Load Lbs	1378
Baggage Capacity Lbs	200

SAFETY NOTES

- An ATSB report on a fatal R182 accident found plan continuation bias and VFR flight into cloud over high terrain. It found no aircraft mechanical anomalies.
- Sample fuel from the strainer and tank sumps before the first flight of the day and after each refueling. Check for water and sediment.
- Do not operate with less than six quarts of oil. The checklist advises filling to 8 quarts for extended flight.