

CESSNA 182T SKYLANE Model Guide

The CESSNA 182T SKYLANE is a four-seat, single-engine piston airplane with a 230 hp Lycoming IO-540-AB1A5 and a three-blade constant-speed propeller. The POH gives a 145 knot cruise at 7,000 ft, 87 gallons of usable fuel and a 200 lb baggage allowance. Registry figures differ from the POH, so verify against the airplane's own documents.

KEY TAKEAWAYS

- Max takeoff 3,100 lb, ramp 3,110 lb, landing 2,950 lb. Standard empty weight is 1,924 lb and max useful load is 1,186 lb.
- POH: 145 kt cruise at 7,000 ft, and 930 nm max range at 10,000 ft and 55% power, on 87 gal usable fuel.
- Baggage is limited to 200 lb in total, with only 80 lb combined allowed in areas B and C.
- Takeoff over a 50 ft obstacle needs 1,514 ft and landing over 50 ft needs 1,350 ft in standard conditions.

WHAT TO CHECK ON INSPECTION

Look for airframe corrosion, dented or cracked skin and missing screws or rivets. Wrinkled skin near the tail hook or a wrinkled firewall point to hard landings. Check the propeller for nicks, cracks and leaks at the blade bases. Be concerned if the engine uses more than 1 quart of oil per hour. At runup, magneto drop should not exceed 175 RPM, with no more than 50 RPM between mags.

LOADING AND BAGGAGE

Baggage area A takes 120 lb, and areas B and C take 80 lb each. The combined limit is 200 lb for A, B and C and 80 lb for B and C together. The rear seat can be removed for cargo. The rear cabin floor is rated 200 pounds per square foot, and each of the ten tiedowns is rated 140 pounds. Use the airplane's own weight and balance records.

READING THE PERFORMANCE NUMBERS

POH speed and range figures assume the standard wheel and brake fairings, which add about 3 knots over an airplane without them. Cruise range allows for engine start, taxi, takeoff, climb and a 45 minute reserve. Figures are calculated for standard conditions, level hard dry runways and no wind. Individual airplanes will differ.

SPECIFICATIONS

Engine Model	Lycoming IO-540-AB1A5
Engine Hp	230
Propeller Diameter Inches	79
Fuel Capacity Gal	92
Usable Fuel Gal	87
Wingspan Ft	36
Length Ft	29

PERFORMANCE

Cruise Speed Kts	145
Max Speed Kts	150
Range Nm	930
Rate Of Climb Fpm	924
Service Ceiling Ft	18100
Takeoff Ground Roll Ft	795
Takeoff Over 50ft Ft	1514
Landing Over 50ft Ft	1350

V-SPEEDS

Best Glide Speed Kts	76
Vne Kts	175
Vfe Flaps 10 Kts	140
Vfe Flaps 20 Kts	120
Vfe Flaps Full Kts	100
Approach Speed Flaps Down Kts	70

WEIGHT & BALANCE

Max Ramp Weight Lbs	3110
Max Takeoff Weight Lbs	3100
Max Landing Weight Lbs	2950
Standard Empty Weight Lbs	1924
Max Useful Load Lbs	1186
Baggage Allowance Lbs	200

SAFETY NOTES

- Engine failure in flight: best glide is 76 KIAS. For a forced landing use 75 KIAS flaps up, or 70 KIAS with flaps 10 degrees to full.
- Hot starts can be difficult and vapor lock can occur on hot days. Use the auxiliary fuel pump if you suspect an engine-driven pump failure or surging.
- Registry data lists 300 hp and 2,550 lb max takeoff. The POH shows 230 hp and 3,100 lb, so use the POH figures.