

Cessna 182F Skylane Model Guide

The CESSNA 182F Skylane is a four-seat, single-engine piston Cessna with a 230 hp Continental engine. Library data lists 2550 lb max takeoff weight, 120 kt cruise and 700 nm range. It belongs to the 182 family (TCDS 3A13), where family-wide maxima reach 930 nm and 20000 ft. Check every figure against the airplane's own handbook.

KEY TAKEAWAYS

- Four seats, 2550 lb max takeoff weight, 1500 lb basic empty weight, 1050 lb useful load, 200 lb baggage allowance (library data).
- Cruises at 120 kt on 12 gph with 700 nm range. Takeoff over 50 ft needs about 1500 ft, and landing over 50 ft about 900 ft.
- Sources conflict: library says 50 gal fuel and 200 lb baggage; TCDS 3A13 (Model 182) says 60 gal (55 usable) and 120 lb. Verify on the airplane.

ENGINE, FUEL AND WHAT THE DATA SAYS

Library data gives a Continental O-470-U with a McCauley 2-blade propeller, 230 hp. An AAIB report on a 1963 182F lists a Continental O-470-R. TCDS 3A13 lists O-470-L for the base Model 182, at 230 hp and 2600 rpm, and 80 minimum grade avgas. The engine designation varies by source, so check the data plate and logbooks.

SPEEDS, WEIGHTS AND LIMITS

Library V-speeds: Vne 175 kt, Vno 125, Va 100, Vfe 110, Vy 80, Vx 75, stall 55 clean and 50 in landing configuration. Max crosswind is 20 kt and CG range 34 to 40 in. TCDS 3A13 shows lower limits for the base 182: never exceed 160 kt, flaps extended 87 kt, maneuvering 106 kt. Use the placarded limits for the specific airplane.

WHAT TO CHECK BEFORE BUYING

Confirm the engine model, propeller and fuel capacity against the logbooks and type data. Inspect the cowling mounts and fasteners: the Skybolt document notes engine movement loads the cowling mounts and a kit replaces steel Camlocs with stainless. It also says the 182 cowling presents the fewest problems. Look for worn engine mounts and wingtip or aileron damage.

SPECIFICATIONS

Engine Hp	230
Max Takeoff Weight Lbs	2550
Empty Weight Lbs	1500
Service Ceiling Ft	15000
Wingspan Ft	36
Length Ft	29
Height Ft	8

PERFORMANCE

Cruise Speed Kts	120
Max Speed Kts	140
Range Nm	700
Rate Of Climb Fpm	700
Fuel Burn Gph	12
Takeoff Distance Ft	1200
Takeoff Over 50ft Ft	1500
Landing Distance Ft	800

V-SPEEDS

Vne Kts	175
Vno Kts	125
Va Kts	100
Vfe Kts	110
Vy Kts	80
Vx Kts	75
Vs1 Kts	55
Vso Kts	50

WEIGHT & BALANCE

Max Takeoff Weight Lbs	2550
Max Ramp Weight Lbs	2600
Max Landing Weight Lbs	2550
Basic Empty Weight Lbs	1500
Useful Load Lbs	1050
Baggage Allowance Lbs	200
Cg Forward Limit Inches	34
Cg Aft Limit Inches	40

SAFETY NOTES

- AAIB: a taxiing 182F struck a parked aircraft's propeller and lost about 0.3 m of right wingtip and aileron. Keep wide clearance on crowded ramps.
- Vne is 175 kt in library data but 160 kt in TCDS 3A13 for the base Model 182. Trust the POH and placards for the airplane you buy.
- TCDS 3A13 warns that alcohol-based fuels can degrade performance and damage fuel system components, and prohibits them.