

Cessna 150 Model Guide

The Cessna 150 is a two-seat, single-engine piston trainer built from 1959 to 1977 in many variants (150 through 150M, plus Reims-built F150 and FA150 models). Standard power is a 100 hp Continental O-200-A with a fixed-pitch propeller. It carries 26 gal of fuel and 120 lb of baggage and cruises around 120 mph (1967 manual, Standard model).

KEY TAKEAWAYS

- Standard power is the 100 hp Continental O-200-A. The registry's 150 hp Lycoming O-320-E2D is a modification, so confirm what is installed.
- 1967 manual figures: 120 mph cruise at 75% power, 480 mi range on 22.5 gal with no reserve, 670 fpm climb at sea level.
- Max weight varies by model: 1500 lb (150 to 150C), 1600 lb (150D to 150F). The registry shows 1760 lb, so check your own papers.
- Fuel is 80/87 minimum grade avgas per the data sheet for the 150 to 150F; the tanks hold 26 gal.

PERFORMANCE (1967 STANDARD MODEL)

At 1600 lb gross: top speed 123 mph at sea level, 120 mph cruise at 75% power and 7500 ft. Takeoff ground run is 735 ft and 1385 ft over a 50-ft obstacle. Landing roll is 445 ft and 1075 ft over a 50-ft obstacle. Expect worse when hot, high or heavy.

WEIGHT AND BALANCE

One C150L's weight sheet shows an empty weight of 1096.6 lb, a useful load of 503.4 lb and an empty CG of 32.60 in. Standard fuel is 22.5 gal at 6 lb/gal (135 lb). Baggage limits are 120 lb in area 1 and 40 lb in area 2. Do the sum for your own airplane.

WHAT TO CHECK BEFORE BUYING

Verify the engine and propeller against the paperwork. Conversions exist, such as the Rotax 912 S3 kit NS402S with a Hoffmann propeller, and the Lycoming O-320-E2D fit tested by the USAF Academy. At 1700 RPM the magneto check allows a 150 RPM drop max and a 75 RPM difference. Sample the fuel sumps.

SPECIFICATIONS

Engine Hp	100
Fuel Capacity Gal	26
Usable Fuel Gal	22.5
Max Baggage Lbs	120
Max Takeoff Weight Lbs	1600

PERFORMANCE

Rate Of Climb Sea Level Fpm	670
Takeoff Ground Run Ft	735
Takeoff Over 50ft Ft	1385
Landing Roll Ft	445
Landing Over 50ft Ft	1075

V-SPEEDS

Vne Kts	141
Vno Kts	104
Va Kts	95
Vfe Kts	87

WEIGHT & BALANCE

Gross Weight Lbs	1600
Empty Weight Lbs	1096.6
Useful Load Lbs	503.4
Max Baggage Lbs	120
Empty Cg In	32.6

SAFETY NOTES

- Engine failure after takeoff (club checklist): 70 mph, mixture idle cut-off, fuel off, ignition off, flaps as required (40° recommended). Follow your own POH.
- Forced landing without power: glide at 75 mph flaps up or 65 mph flaps down. Unlatch the doors before touchdown and land slightly tail low.
- Early models (150 to 150C) have a lower 1500 lb maximum weight than later models. Do not assume the later figure.