

Piper PA-28 Cherokee 150 Model Guide

The Piper PA-28 Cherokee 150 is a four-seat, single-engine piston airplane built from 1961 to 1967. The handbook supplied for it is a Piper manual for the PA-28-140 Cherokee Cruiser, which has a 150 hp Lycoming O-320-E3D. Figures below come from that manual, so check them against your own airplane's flight manual.

KEY TAKEAWAYS

- Four seats, 150 hp Lycoming O-320-E3D, 2150 lb gross weight and 875 lb standard useful load.
- Book cruise at 75% power at sea level is 124 mph, burning 8.4 gal per hour; 48 gal usable fuel.
- Published takeoff run is 800 ft, or 1700 ft over a 50-ft obstacle, at gross weight at sea level.
- The supplied manual covers PA-28-140 serial numbers, so confirm which handbook applies to your airplane.

PERFORMANCE ON PAPER

Published figures are for gross weight, sea level and standard conditions. Maximum speed is 142 mph with optional wheel fairings (3 mph less without). Best rate of climb is 631 fpm at 89 mph. Service ceiling is 10,950 ft. Stall with flaps down is 55 mph and landing roll is 535 ft. Real airplanes vary with engine and airframe condition.

WEIGHT, FUEL AND LOADING

Gross weight is 2150 lb and standard empty weight is 1275 lb, leaving 875 lb useful load. Maximum baggage is 200 lb in 22 cubic ft, with limits when family seats are fitted or the baggage area is modified. Fuel is avgas only, minimum 80/87 octane. Oil sump holds 8 quarts. Check the actual weight and balance report.

WHAT TO CHECK WHEN BUYING

Confirm the airplane has its own FAA-approved flight manual and weight and balance report, since the handbook says it is incomplete without them and the flight manual governs in any conflict. Check whether wheel fairings are fitted, as book speeds assume them. Review current airworthiness directives and the engine's condition.

SPECIFICATIONS

Engine Horsepower Hp	150
Usable Fuel Gal	48
Wing Span Ft	30
Length Ft	23.3
Height Ft	7.3

PERFORMANCE

Takeoff Ground Run Ft	800
Takeoff Distance Over 50ft Obstacle Ft	1700
Rate Of Climb Fpm	631
Service Ceiling Ft	10950
Absolute Ceiling Ft	13000
Landing Roll Ft	535
Fuel Consumption 75 Percent Gph	8.4
Fuel Consumption 50 Percent Gph	5.6

WEIGHT & BALANCE

Gross Weight Lbs	2150
Standard Empty Weight Lbs	1275
Max Useful Load Lbs	875
Max Baggage Lbs	200

SAFETY NOTES

- The handbook is incomplete without the FAA-approved Airplane Flight Manual and a weight and balance report; the Flight Manual takes precedence.
- Use avgas only (minimum 80/87 octane). Use the manual only for airplanes within its stated serial number applicability.
- Range figures assume 48 gal usable fuel with no reserve, so plan your own fuel reserves.