

PIPER Aztec PA-23-250 Model Guide

The PIPER Aztec PA-23-250 is a six-place, twin-engine piston airplane with two 250 hp Lycoming engines. The figures here come mainly from the Aztec "E" operating manual and checklist. They cover a normally aspirated version and a turbocharged version. Check any airplane against its own flight manual and weight and balance report.

KEY TAKEAWAYS

- The Aztec E comes normally aspirated (IO-540-C4B5) or turbocharged (TIO-540-C1A). Both are rated 250 hp per engine, with a 5200 lb gross weight.
- Standard useful load is 2158 lbs normally aspirated and 1971 lbs turbocharged. Fuel capacity is 144 gal, of which 140 gal is usable.
- Published cruise is up to 210 mph at 4,000 ft normally aspirated, or up to 245 mph at 22,000 ft turbocharged.
- Check the records for SB 540B (stabilator tip tubes, Aztec F) and SB 1022 (induction air filter).

PERFORMANCE (AZTEC E, GROSS WEIGHT, SEA LEVEL)

Takeoff run is 820 ft and distance over a 50-ft barrier is 1250 ft. Accelerate-stop is 2220 ft. Landing roll is 850 ft and landing over 50 ft is 1620 ft. Best rate of climb is 1490 fpm normally aspirated and 1530 fpm turbocharged. Single-engine rate of climb is 240 fpm normally aspirated and 265 fpm turbocharged.

WEIGHTS, FUEL AND ENGINES

Maximum gross weight is 5200 lbs and maximum landing weight is 4940 lbs. Standard empty weight is 3042 lbs normally aspirated and 3229 lbs turbocharged. The normally aspirated engine uses 91/96 minimum octane fuel; the turbocharged engine uses 100/130. Each engine holds 12 qts of oil. Normal cruise burns 34.0 gph normally aspirated and 32.6 gph turbocharged.

WHAT TO CHECK WHEN BUYING

Piper built several six-place Aztec series (B, C, D, E, F), and the service manual lists the serial ranges. Confirm the exact model and serial number, then match it to the manual. The Piper service bulletin index and FAA airworthiness directive listings should be reviewed for open items. Avionics and autopilot parts are not listed in the parts catalog for later serial numbers.

SPECIFICATIONS

Engine Power Hp	250
Max Fuel Capacity Gal	144
Usable Fuel Gal	140
Max Takeoff Weight Lbs	5200
Max Landing Weight Lbs	4940
Empty Weight Lbs	3042
Useful Load Lbs	2158

PERFORMANCE

Takeoff Ground Roll Ft	820
Takeoff Distance Over 50ft Ft	1250
Accelerate Stop Distance Ft	2220
Landing Roll Ft	850
Landing Distance Over 50ft Ft	1620
Best Rate Of Climb Fpm	1490
Single Engine Rate Of Climb Fpm	240
Normal Cruise Fuel Burn Gph	34

V-SPEEDS

Vne Mph	249
Vno Mph	198
Va Mph	149
Vlo Le Mph	150
Vfe Full Flaps Mph	125
Vy Mph	120
Vx Mph	107
Vyse Mph	102

WEIGHT & BALANCE

Max Gross Weight Lbs	5200
Max Landing Weight Lbs	4940
Max Zero Fuel Weight Lbs	4400
Standard Empty Weight Lbs	3042
Useful Load Lbs	2158
Fuel Capacity Gal	144

SAFETY NOTES

- SB 540B: stabilator tip tube and weight cracks on Aztec F serials 27-7654001 to 27-7954121. Recurring inspection at no more than 100 hours. Cracks must be repaired before the next flight.
- SB 1022: inspect the FACET induction air filter (Piper P/N 460-632) before the next flight. Replace within 25 hours if required, and look for debris if plastic has crumbled.
- Minimum controllable single-engine speed is 80 mph. Best single-engine rate of climb speed is 102 mph (IAS).