

Piper PA-32 Saratoga II TC Model Guide

The Piper PA-32 Saratoga II TC is a six-seat, retractable-gear single built 1995 to 2009. It has a 300 hp turbocharged Lycoming TIO-540-AH1A. The handbook lists max takeoff weight at 3,600 lb and 102 gal usable fuel. The turbo is aimed at high-altitude cruise.

KEY TAKEAWAYS

- The Piper PA-32 Saratoga II TC has a 300 hp turbo engine and a recommended TBO of 2,000 hr.
- High-speed cruise is 176 kt at 10,000 ft burning 20 gph. Long-range power gives 160 kt at 12.5 gph.
- Full fuel leaves about 525 lb of payload, so you can't fill every seat and the tanks.
- Check the exhaust system against AD 2010-13-07 and the owner's equipment list.

WHAT IT CARRIES AND HOW IT PERFORMS

The Saratoga II TC has six seats and 107 gal of fuel (102 usable). Standard empty weight is 2,478 lb, and each baggage compartment takes 100 lb. Takeoff roll is 1,110 ft, or 1,810 ft over a 50-ft obstacle. Sea-level climb is 950 fpm, and max operating altitude is 20,000 ft. Max demonstrated crosswind is 17 kt.

HANDLING AND AVIONICS

AOPA describes it as stable, forgiving and docile, with benign stalls and good lateral stability, so it suits instrument flying. The controls are a tad heavy. In 2002 the standard panel had a Garmin GNS 530/430, an S-Tec System 55 autopilot, an HSI and a flight director. A Garmin GFC 500 autopilot supplement exists for PA-32(R) models.

WHAT TO CHECK BEFORE BUYING

AD 2010-13-07 calls for replacing spot-welded exhaust clamps with riveted ones, and for checking that slip joints move freely. Confirm it has been done. Check the turbo and its automatic wastegate for smooth operation. Compare the equipment list with the airplane, since the owner must keep it current. Weigh the airplane, because published empty weights vary (2,465 to 2,478 lb).

SPECIFICATIONS

Engine Power Hp	300
Max Takeoff Weight Lbs	3600
Empty Weight Lbs	2478
Useful Load Lbs	1137
Fuel Capacity Gal	107
Usable Fuel Gal	102

PERFORMANCE

High Speed Cruise Kts	176
High Speed Range Nm	750
High Speed Fuel Burn Gph	20
Long Range Cruise Kts	160
Long Range Fuel Burn Gph	12.5
Rate Of Climb Fpm	950
Max Operating Altitude Ft	20000
Takeoff Ground Roll Ft	1110

V-SPEEDS

V Y Gear Up Kts	95
V Y Gear Down Kts	80
V A Kts	134
V Fe Kts	110
V Le Kts	132
V Ne Kts	191
V S1 Kts	67
V So Kts	63

WEIGHT & BALANCE

Max Ramp Weight Lbs	3615
Max Takeoff Weight Lbs	3600
Max Landing Weight Lbs	3600
Empty Weight Lbs	2478
Useful Load Lbs	1137
Payload Full Fuel Lbs	525
Forward Baggage Lbs	100
Aft Baggage Lbs	100

SAFETY NOTES

- Apply the throttle smoothly. Pushing it hard to the firewall can overboost manifold pressure and damage internal engine parts.
- Non-Piper STC installations are not covered by the handbook. Inspect affected areas under the STC holder's program.