

CESSNA Turbo Skylane T182T Model Guide

The CESSNA Turbo Skylane T182T is a single-engine piston airplane with 2+2 seating and a constant-speed 3-blade propeller. The POH lists a turbocharged 235 BHP engine and a 20,000 ft maximum operating altitude. It carries 87 gallons of usable fuel. Check which engine your specific airplane has, because the sources disagree.

KEY TAKEAWAYS

- POH figures: 159 kt cruise at 88% power at 12,500 ft, 615 NM range, 20,000 ft maximum operating altitude.
- Max takeoff weight is 3100 lb with 87 gal usable fuel. Baggage is limited to 200 lb.
- POH short-field figures: 775 ft takeoff ground roll and 590 ft landing ground roll, in standard conditions.
- The engine in the sources is inconsistent (TIO-540-AK1A in the POH, O540-AB1A5 elsewhere). Verify it on the airplane.

PERFORMANCE (POH, STANDARD CONDITIONS)

Maximum speed is 176 kt at 20,000 ft. Cruise is 159 kt at 88% power at 12,500 ft (615 NM, 4.0 hours) or 145 kt at 75% power at 10,000 ft (721 NM, 5.1 hours). Sea-level climb is 1040 fpm. Takeoff over a 50 ft obstacle takes 1385 ft and landing takes 1350 ft. Figures assume wheel and brake fairings.

WEIGHTS AND LOADING

The POH lists ramp 3112 lb, takeoff 3100 lb and landing 2950 lb. Baggage Area A allows 120 lb, Areas B and C together allow 80 lb, and the total is 200 lb. The POH gives two standard empty weights (2029 lb and 2023 lb), so use the weighed empty weight and equipment list of the actual airplane.

ENGINE AND AVIONICS DISCREPANCY

The POH describes the TIO-540-AK1A, a 541.5 cu in turbocharged six-cylinder rated 235 BHP at 2400 RPM. The library entry and a 2021 sales listing (429 hrs, G1000 NXi, GFC 700 autopilot) name a Lycoming O540-AB1A5. Confirm the engine data plate and logbooks against the paperwork.

SPECIFICATIONS

Max Ramp Weight Lbs	3112
Max Takeoff Weight Lbs	3100
Max Landing Weight Lbs	2950
Baggage Allowance Lbs	200
Fuel Capacity Gal	92
Usable Fuel Gal	87
Engine Power Hp	235
Propeller Diameter Inches	79

PERFORMANCE

Max Speed Kts	176
Cruise Speed Kts	159
Range Nm	615
Service Ceiling Ft	20000
Rate Of Climb Fpm	1040
Takeoff Ground Roll Ft	775
Landing Ground Roll Ft	590
Best Glide Speed Kts	76

V-SPEEDS

Stall Speed Flaps Up Kts	54
Stall Speed Flaps Full Kts	49
Best Glide Speed Kts	76
Best Rate Of Climb Speed Kts	80
Short Field Liftoff Speed Kts	49
Short Field Speed At 50ft Kts	58
Short Field Landing Speed At 50ft Kts	60

WEIGHT & BALANCE

Max Ramp Weight Lbs	3112
Max Takeoff Weight Lbs	3100
Max Landing Weight Lbs	2950
Baggage Area A Max Lbs	120
Baggage Area B C Max Lbs	80
Baggage Total Max Lbs	200

SAFETY NOTES

- The POH copy supplied is not kept current and cannot replace the official POH, which must be carried in the airplane.
- Use only approved fuel: 100LL (blue) or 100 (green). Unapproved fuel may damage the engine and fuel system.
- Cessna's performance figures are calculated for standard, no-wind, dry hard-surface conditions. Your airplane will vary.