

Cessna TR182 Turbo Skylane RG Model Guide

The Cessna TR182 Turbo Skylane RG is a four-seat, retractable-gear single sold from 1978 to 1986. It has a turbocharged 235 hp Avco Lycoming six-cylinder and a constant-speed propeller. The handbook lists 3100 lb maximum takeoff weight, 92 gal of fuel (88 usable) and a 200 lb baggage allowance. Its main appeal is fast cruise at altitude, up to 20,000 ft.

KEY TAKEAWAYS

- Handbook speeds: 187 kt maximum and 173 kt cruise (75% power) at 20,000 ft. At 10,000 ft, cruise is 158 kt.
- Fuel is 92 gal total, 88 usable. 75% cruise range with 45-minute reserve is 845 nm at 10,000 ft and 875 nm at 20,000 ft.
- The turbo needs hands-on power management. Maximum manifold pressure is 31 inches and the engine is easy to overboost.
- Standard empty weight is 1764 lb against 3100 lb maximum takeoff weight. Baggage is limited to 200 lb.

PERFORMANCE (HANDBOOK)

Takeoff ground roll is 820 ft and 1570 ft over a 50 ft obstacle. Landing ground roll is 600 ft and 1320 ft over 50 ft. Sea-level climb is 1040 fpm. Certificated maximum operating altitude is 20,000 ft. Stall speed is 54 kt clean and 50 kt with gear and flaps down.

ENGINE AND TURBO SYSTEM

The engine is an Avco Lycoming O-540-L3C5D rated 235 hp at 2400 rpm, with a recommended TBO of 1,800 hours. It is carbureted and has a Garrett turbosupercharger. A variable waste gate is operated by the second half of throttle travel. A relief valve is designed to open at 34 inches. The handbook approves 100LL and 100 grade fuel.

WHAT TO CHECK WHEN BUYING

Look for any history of overboost above 31 inches. Check the EGT gauge and cylinder-head and oil temperature gauges. The reviewer recommends the optional carburetor air temperature gauge. Inspect the optional 48-cubic-foot oxygen system, including the tank, masks and gauge. Fuel tanks are in the wings, and the caps are on top of the wing.

SPECIFICATIONS

Engine Hp	235
Fuel Capacity Gal	92
Usable Fuel Gal	88
Max Takeoff Weight Lbs	3100
Max Ramp Weight Lbs	3112
Baggage Allowance Lbs	200
Propeller Diameter In	82
Standard Empty Weight Lbs	1764

PERFORMANCE

Max Speed 20000ft Kts	187
Cruise 75pct 20000ft Kts	173
Cruise 75pct 10000ft Kts	158
Range 75pct 10000ft Nm	845
Range 75pct 20000ft Nm	875
Rate Of Climb Fpm	1040
Max Operating Altitude Ft	20000
Takeoff Over 50ft Ft	1570

V-SPEEDS

Stall Speed Clean Kts	54
Stall Speed Landing Kts	50
Maneuvering Speed Kts	112

WEIGHT & BALANCE

Max Ramp Weight Lbs	3112
Max Takeoff Weight Lbs	3100
Max Landing Weight Lbs	3100
Standard Empty Weight Lbs	1764
Max Useful Load Lbs	1348
Baggage Allowance Lbs	200
Baggage Area A Lbs	120
Baggage Area B Lbs	80

SAFETY NOTES

- Keep manifold pressure at or below 31 inches. The reviewer would not rely on the relief valve, which is designed to open at 34 inches.
- Turbo altitudes are unpressurized. In the review the optional oxygen tank ran out after a bit over three hours, so check tank pressure and gauge.
- The reviewer names ice as the main remaining enemy for turbo singles of this type once radar or storm detection is fitted.