SOCATA TB-10 TOBAGO Model Guide

The SOCATA TB-10 TOBAGO is a single-engine piston aircraft. The registry lists the TB 10 family at up to 5 passengers, up to 1100 kg MTOW, up to 680 nm range and up to 116 kt cruise (family maxima). The only documents supplied are two operator-made checklists, not a factory manual, so check every figure against the approved flight manual.

KEY TAKEAWAYS

- Family-level maxima: up to 5 passengers, 1100 kg MTOW, 680 nm range, 116 kt cruise and 15000 ft service ceiling.
- Checklist speeds: rotate 63 KIAS, climb 70, Vno 128, Va 122, flaps limit 95, best glide 86 KIAS.
- The two checklist revisions disagree on glide ratio (6:1 vs 9:1) and on some Vx/Vy figures. Confirm them in the POH.
- Preflight includes oil level 6-8 quarts and draining both fuel drains and the filter drain.

OPERATING NUMBERS FROM THE CHECKLISTS

Take-off power is set at 2700 RPM, with rotation at 63 KIAS and climb at 70 KIAS. Best rate of climb in cruise configuration is 78 KIAS and best angle is 65 KIAS. Final approach is 73-78 KIAS, with go-around at 73 KIAS. Max demonstrated crosswind is 25 KIAS.

WHAT TO CHECK ON INSPECTION AND RUN-UP

Check oil at 6-8 quarts, propeller clearance of at least 25 cm, brake pressure, and the fuel drains and filter drain. At the 2000 RPM run-up, cycle the propeller twice (max drop 500) and check the magnetos (max drop 175, difference 50). Also check carb heat, EGT and the 24V electrical system. Starter use is limited to 10 seconds. Keep the tank fuel difference to 13 gal max.

DIFFERENCES BETWEEN CHECKLIST REVISIONS

The 02.07.2025 list gives a glide ratio of 6:1 and take-off Vy 74 / Vx 63 KIAS. The 10.08.2025 list gives 9:1, adds a suction check at run-up, and lists landing Vy 70 / Vx 58 KIAS. Both are third-party checklists, so verify against the POH.

PERFORMANCE

Family Max Range Nm	680
Family Max Cruise Speed Kt	116
Family Max Service Ceiling Ft	15000
Max Demonstrated Crosswind Kts	25

V-SPEEDS

Vno Kts	128
Va Kts	122
Vfe Takeoff Kts	95
Vfe Landing Kts	95
Vy Cruise Kts	78
Vx Cruise Kts	65
Rotation Kts	63
Best Glide Kts	86

SAFETY NOTES

- Engine failure in flight: fuel pump ON, switch the fuel valve to the opposite tank, glide at 86 KIAS. If there is no improvement, land as soon as possible.
- Electrical fire or smoke: GEN/BAT master OFF, open cabin air, use the extinguisher if smoke continues, and land as soon as possible.
- Starter light staying on after start: throttle idle, mixture cut-off, magnetos OFF. The checklist says maintenance action is required.

AI-aggregated guide for the SOCATA TB-10 TOBAGO · sources: NORMAL PROCEDURES SOCATA TB-10 - 02.07.2025 (#100024) · NORMAL PROCEDURES SOCATA TB-10 (#100076) · generated 2026-10-21 · Reference only, not for flight. Check the original documents before relying on this guide.