

N771TR SPECIFICATIONS

Revision 08-31-04

TYPE **Model -** SOCATA TB10 Tobago, SN 511
PROPELLOR **Engine -** Avco Lycoming 0-360 A1AD, 180 BHP @2700RPM
 Type - Constant Speed - Hartzell HC-C2YK
Restricted Operation - 2000-2250 RPM **Idle RPM -** 750RPM
Minimum Static RPM – (Max Power Check) 2700RPM

OIL **Sump =** 8qt **Minimum =** 4qt **Normal Flight (-3 hrs) =** 6qts
 Principal Type – SAE 15W50 **Max consumption .8** qt/hr

FUEL **Useable fuel -** 53.8 US Gal. total, 26.9 per side **Fuel type –** 100LL
Total Fuel - 55.4 US Gal, 1.6 total unusable **Max fuel imbalance -** 13.2 Gal
(13 volt fuel gage electrical accuracy threshold)

ELECTRICAL SYSTEM

Alternator - 14 volt/70 amp unit with 60 amp pull off type breaker
Battery - 12 volt/35 amp-hour unit with 70 amp pull off type breaker
Buses - 3 units. Each with 40 amp pull off type breaker

LANDING GEAR

Inflation Pressures - Nose gear tire @ 45 psi, Main gear tires @ 33.4 psi
Left taxi turn-radius- Main wheel = 17.9 ft, Wingtip = 60.2 ft. Right values greater
Nose Wheel Travel- 22 degrees left, 18.3 degrees right

FLIGHT LOAD LIMITS

Normal Category - +3.8/-1.5Gs with flaps retracted. +2 -0Gs with flaps extended.
Utility Category - +4.4/-1.8Gs with flaps retracted. +2 -0Gs with flaps extended.

SPEEDS

Vne 165 kts **Vno** 128 kts **Vfe** 95 kts **Vs** 60 kts **VSo** 53 kts **Vr** 65 kts
Vy - 80 kts with flaps retracted **Vx –** 70 kts with flaps retracted **Va -** 122 kts @ 2535 lbs
 75 kts with Take off flaps 65 kts with Landing flaps 108 kts recommended
Best Glide - 86 kts **Engine Failure on take off -** 70 kts **Precautionary landing -** 65 kts
Short Final - 72 kts **Go around –** 70 kts with landing flaps / 75 kts with take off flaps

*VY and VX are listed as lower in the POH

CROSSWIND

Maximum demonstrated component - 25 kts
Max landing bank angle - 15 degrees

FLAPS **Type -** Electric single slotted. **Breaker –** 15 amps
Degrees of Flaps Travel - Retracted @ 0 / Take off @10 / Landing @ 25.3

N771TR WEIGHTS

Max Ramp Weight -	2546 lbs	Basic Empty Weight -	1630.1 lbs
Max Take Off Weight -	2535 lbs	Useful Load -	905 lb
Max Landing Weight -	2407 lbs	Basic Empty Moment -	61.228 lb in/1000
Max Bag Area Weight -	143 lbs		

*(Forward CG envelope limit varies from 37.3" to 45.0" depending on weight & category.
Aft limit exists @ 47.4" at all times.*