

N427TB SPECIFICATIONS

Revision 06-24-2004

TYPE **Model -** Piper Seneca I, PA34-200, SN 34-7350245
Engine - Avco Lycoming I0-360 C1E6, LIO-360 C1E6
2 x 200 BHP @2700RPM

PROPELLOR **Type -** Constant Speed - Hartzell HC-C2YK-2 **Length -** 76 in
Idle RPM - 750RPM **Anti-Feather Lock Speed -** 800RPM
Pitch Settings - 13.5 to 81 degrees
Minimum Static RPM – (Max Power Check) 2700RPM

OIL **Sump =** 8qt **Minimum =** 6qt
Principal Type – SAE 15W50 **(Max consumption .75 qt/hr?)**

FUEL **Useable fuel -** 95 US Gal. total, 47.5per side **Fuel type –** 100LL
Total Fuel - 100 US Gal, 2.5 total unusable per side
Standard Cruise - 22 GPH

ELECTRICAL SYSTEM

Alternators - 2 x 14 volt/60 amp unit **Battery -** 12 volt/35 amp-hour unit
Buses - ? **# Pull Off Breakers= ?** **Overvoltage Regulators x 2** regulating @ 14 volts
Recommended max electrical load – 50 amps per alternator.

LANDING GEAR

Inflation Pressures - Nose gear tire @ 31 psi, Main gear tires @ 53 psi
Taxi turn-radius (Wingtip to wingtip) = 56.4 ft. **Steering arc =** 27 degrees

DIMENSIONS Wingspan = 39/Length =28.5/Height 9.9/Wheel Base 11.87

FLIGHT LOAD LIMITS 3G? -1.5G? Normal Category Spins Prohibited

SPEEDS

Vne 217 mph/ 188 kts **Vno** 190 mph/165kts
Vfe @40=125mph/108kts (“105”)
 @25 = 140mph/122kts (“120”)
 @10 = 160/139kts (“140”)
Vs 76 mph/66 kts **VSo** 69mph/60 kts **Vsse –** 90 mph/78 kts (“80”)
Vr 85mph/74kts (“75”) **VMC =** 80mph/69kts
Vy - 105mph/91kts (“90”) **Vx –** 90mph/78kts (“80”)
Vyse - 105 mph/ 91kts (“90”) **Vxse -** 93 mph/107kts
Vle - 150mph/130kts **Vlo -** 125mph/108kts
Va - 133mph/115kts (2743 lbs) 146mph/126kts (“125”)(4200 lbs)
Threshold Crossing speed/Short Field App - 87mph/75kts+

Cruise Climb – 120 mph/105kts

ALTITUDES **Single engine service ceiling -** 3650 at 4200 lbs, 5000 at 4030 lbs

VMC demo separation – 3500 ft **Service Ceiling -** 17,900 ft

CROSSWIND

Maximum demonstrated component – 15mph/13kts
Max landing bank angle - 15 degrees?(TB10)

FLAPS

Type – Manual slotted.
Degrees of Flaps Travel - Retracted @ 0 / 10 / 25 / Landing @ 40

N427TB WEIGHTS

Max Ramp/Take Off Weight - 4200lbs
Basic Empty Weight - 2915 lbs **Useful Load -** 1285 lbs
Max Landing Weight - 4000 lbs **Basic Empty Moment -** in/1000
Max Bag Area Weight - Forward 100 lbs Rear 100 lbs
CG Range Forward CG +87.9@4200lbs, +82@3400 lbs, +80.7@2780. Rear CG +94.6 all weights.