

PIPER WARRIOR N7951F SPECIFICATIONS

Rev 12-10-19

TYPE **Model -** SOCATA TB9 Tampico, SN 28-7715249
PROPELLOR **Engine -** Lycoming O-320-E3D Penn Yam RAM 160 BHP
 Type - Fixed Pitch - Sensenich Model 74DM6
 Minimum Static RPM (Max Power Check) 2275 RPM at Sea Level
 Maximum Static RPM 2375 RPM at Sea Level
OIL **Sump =** 8qt **Minimum =** 5qt **Normal Flight** (-3 hrs) = 6qts
 Principal Type – SAE 15W50 **Max consumption** .8 qt/hr
FUEL **Useable fuel –** 48 US Gal. total, 24 per side **Fuel type –** 100LL
 Total Fuel - 50 US Gal, 2 total unusable **Fuel Tabs -** 17 Gal

ELECTRICAL SYSTEM

Alternator - 14 volt/60 amp **Battery -** 12 volt/35 amp-hour

LANDING GEAR

Inflation Pressures - Nose gear tire @ 30 psi, Main gear tires @ 24 psi
Minimum Turn-radius - 30 ft from pivot point to wingtip
Nose Wheel Travel - ±30° degrees left/right

FLIGHT LOAD LIMITS

Normal Category (2325 lbs) - +3.8 G
Utility Category (1950 lbs) - +4.4 G
Spins Prohibited. Utility Category: Aerobatic maneuvers limited to: Steep Turns, Lazy Eights, Chandelles approved (111 kts entry)

SPEEDS

V_{NE} 160 kts **V_{NO}** 126 kts **V_{FE}** 103 kts **V_S** 50 kts **V_{SO}** 44 kts
V_R – Standard 60 kts / Short Field 55 kts
V_Y - 75 kts **V_X** – 63 kts **V_A** - 111 kts @ 2325 lbs, 88 kts @ 1531 lbs
Best Glide - 73 kts **Engine Failure on take off -** 73 kts **Precautionary landing -** 63 kts
Short Final - Standard 65 kts /Short Field Calm Air -63 kts

CROSSWIND

Maximum demonstrated component - 17 kts

FLAPS

Type – Manually actuated, single slotted
Flap settings - Retracted @ 0° / 10° / Short/Soft Take off @ 25° / Landing @ 40°

N7951F WEIGHTS

Max Ramp Weight -	2325 lbs	Basic Empty Weight -	1460.50 lbs
Max Take Off Weight -	2325 lbs	Useful Load -	864.50 lbs
Max Landing Weight -	2325 lbs	Basic Empty Moment -	125,722.37 in-lbs
Max Bag Area Weight -	200 lbs		

*(Forward CG limit varies from 83" to 87" depending on weight & category.
Aft limit 92" at all times.)*