

Data Sheet – Piper Warrior III (pa-28-161)

Weights

Aircraft Number	Empty Weight	Empty Moment	Useful Load
560PU	1536.85 lbs	131,680.85	910 lbs
564PU	1564.05 lbs	135,031.55	882 lbs

Maximum Weights

	Normal	Utility
Ramp Weight	2447	2027
Takeoff Weight	2440	2020
Landing Weight	2440	2020
Maximum weight	200	0

Powerplant

Engine: Lycoming O-320, 160 BHP @ 2700 RPM. Four cylinders, direct drive, horizontally opposed, air cooled, carburetor equipped.

Oil: Full	8 qt.
Min. for local flight	6 qt.
Min. for x-country	7 qt.
Grade and Type	Summer – 100W50 wt. Winter – 65W30wt.

Fuel System

Fuel: Approved Grades	100LL (Blue), 100 (Green)
Total Fuel	50 Gal.
Total Useable	48 Gal.

System: The airplane is equipped with a standard fuel system consisting of two vented fuel tanks, a fuel tank selector valve, fuel strainer, electric primer, engine driven fuel pump, auxiliary electric fuel pump, carburetor. Fuel is pressure feed from the wing tanks to the fuel selector valve, through a fuel strainer to the fuel pumps and then to the carburetor. From the carburetor, mixed fuel and air flows to the cylinders through intake manifold tubes. Usable capacity at the bottom of the indicator tab is 17 gallons.

Landing Gear and Brakes

System Description: Landing gear is fixed in the tricycle configuration. Directional control is provided by the steerable nose wheel. Each main gear wheel is equipped with a hydraulically actuated disc-typed brake on the inboard side of each wheel.

Tire inflation: Mains 24 psi

Nose 30 psi

Electrical System

Alternator 28 volt, 60 ampere

Battery 24 volt

System Description: The battery is in a box, mounted on the forward right face of the fire wall. All avionics equipment should be turned off prior to starting the engine to prevent harmful transient voltage from damaging this equipment.

Speeds

Best Glide Speed	73 kias
Vso	44 kias
Vs1	50 kias
Vr	45-55 kias
Vx	63 kias
Vy	79 kias
Va	88 – 111 kias
Vne	160 kias
Vno	126 kias
Vfe	103 kias