



## Piper Warrior Specs

### Weights

Aircraft #	Empty Weight	Empty Moment	Max Gross Weight	Useful Load
N38300	1478		2325	847
N8198V	1490		2325	835

### Powerplant

#### Engine:

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

#### Oil:

Maximum	7 qts.
Minimum for Local Flight	5.5 qts.
Minimum for X-Country	6.5 qts.
Grade and Type	Phillips 20W-50 X-C

### Fuel System

#### Fuel:

Approved Grades	100LL (blue), 100 (green)
Total Fuel	50 Gal.
Total Useable	48 Gal.
Fuel at Tabs	17 Gal. per tank
Fuel Burn	Approx 8.5 GPH – Consult POH

#### System Description:

The airplane is equipped with a standard fuel system consisting of two vented fuel tanks, a fuel tank selector valve, fuel strainer, manual primer, engine driven fuel pump, auxiliary electric fuel pump, and carburetor. Fuel is pressure fed from the wing tanks to the fuel selector valve, through a fuel strainer to 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**

### **Tire Inflation:**

Mains	24 PSI
Nose	30 PSI

## **Speeds**

Best Glide Speed	Vg	73 KTS
Stall in Landing Configuration	Vso	44 KTS
Stall in Clean Configuration	Vs1	50 KTS
Rotate Speed	Vr	55 KTS
Best Angle of Climb	Vx	63 KTS
Best Rate of Climb	Vy	79 KTS
Enroute Climb	-	87 KTS
Maneuvering Speed	Va	111 KTS
Flap Extension Speed	Vfe	103 KTS
Max Structural Cruising Speed	Vno	126 KTS
Never Exceed	Vne	160 KTS

## **✈ Pilot Tips:**

- Normal cold start should take 5 shots of prime. A hot start should take 2 shots. Under extreme cold, the planes will need about 8 or more shots of prime.
- Make sure you latch both door latches before takeoff.
- Turn fuel pump on before switching tanks.
- Cruise speed 115 kts.
- Range: 600 nm w/ Reserves