

# 1974 Piper Warrior Quick Reference Sheet

## V Speeds (Converted from Calibrated to Indicated)

V<sub>so</sub> 44 KIAS

V<sub>s</sub> 50 KIAS

V<sub>x</sub> 63 KIAS

V<sub>y</sub> 76 KIAS

V<sub>a</sub> 108 KIAS

Best Glide 73 KIAS

V<sub>fe</sub> 108 KIAS

V<sub>no</sub> 122 KIAS

V<sub>ne</sub> 153 KIAS

Engine: Lycoming O-320 160 HP

Oil: Phillips XC 20W50 8Qt. Max 6Qts. Min

Tire pressures: Nose: 30psi, Extension 3.25" normal. Mains: 24psi, Extension 4.5" normal  
Nose Wheel: Spring loaded centering, Bungee cords for shock absorption.

Rudder and Ailerons: Spring loaded centering device. Flaps: Spring return.

Fuel: 48 Gals. Usable 34 Gals Usable at the tabs

100LL only. No auto gas.

Two outlets in each tank connected by a manifold. Results in two extra drain valves.\

Two fuel pumps. One engine driven, one electric standby pump.

Electrical: 14Volts/ 60amp alternator

No Annunciator lights for alternator failure: Zero reading on ammeter is only indication.

Reset over voltage circuit by turning left side of master switch off/on. (more than 1 sec.)

Normal & Utility Category (below 1950lbs no bags or aft passengers)

2325lbs Gross Takeoff Weight

200 lbs baggage max.

No standby vacuum system.

Alternate Static Source by pilot's left knee, under instrument panel.

Pitot drain on left wall will open system momentarily.

Flaps: 10, 25, 40 degrees. Ensure flaps are UP and locked before people try to step on them.

Floor mounted heat ducts get extremely Hot and can cause burns if touched.

## Limitations

Oil Temp: 245F

Oil Pressure: 25psi, 90psi

Fuel Pressure: .5psi, 8psi

Tachometer: 2700 RPM

No acrobatics, No spins.

Demonstrated X-Wind 20mph (17 kts)  
Remove Oil Cooler Winter Cover above 50F.

Run Up: 2000 RPM 175 drop/50 differential  
Flight Manual airspeeds are Calibrated and must be converted to Indicated.

**Normal Takeoff**

Flaps 0  
Rotate 55 KIAS  
Climb 76 KIAS

**Normal Landing**

Flaps 0 to 40  
Vref 0 70 KIAS  
Vref40 65 KIAS

**Short Field NO Obstacle Takeoff**

Flaps 25 or 0  
Rotate 45 or 52 KIAS  
Climb 76 or 76 KIAS

**Short Field NO Obstacle Ldg**

Flaps 40  
Vref40 60 KIAS  
Normal Glide path

**Short Field With Obstacle Takeoff**

Flaps 25  
Rotate 45 KIAS  
Climb 52 KIAS to clear then:  
Climb 76 KIAS – Flaps Up

**Short Field With Obstacle Ldg**

Flaps 40  
Vref40 60 KIAS  
Steeper Glide Path to Clear

**Soft Field NO Obstacle Takeoff**

Flaps 25  
Rotate Slowest Practical  
Climb 76 KIAS

**Soft Field NO Obstacle Ldg**

Flaps 40  
Vref40 60 KIAS  
Normal Glide Path

**Soft Field With Obstacle Takeoff**

Flaps 25  
Rotate Slowest Practical  
Climb 52 KIAS to clear then:  
Climb 76 KIAS – Flaps Up

**Soft Field With Obstacle Ldg**

Flaps 40  
Vref40 60 KIAS  
Steeper Glide Path to Clear

**Go-Around**

Power FULL  
Carb Heat OFF  
Flaps to 25 (if Down)  
Pitch for 55 KIAS – (63 KIAS if Flaps Up)  
At Safe Altitude Pitch for 76 KIAS  
Retract Flaps Slowly