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

Weights

<table>
<thead>
<tr>
<th>Aircraft Number</th>
<th>Empty Weight</th>
<th>Empty Moment</th>
<th>Useful Load</th>
</tr>
</thead>
<tbody>
<tr>
<td>560PU</td>
<td>1536.85 lbs</td>
<td>131,680.85</td>
<td>910 lbs</td>
</tr>
<tr>
<td>564PU</td>
<td>1564.05 lbs</td>
<td>135,031.55</td>
<td>882 lbs</td>
</tr>
</tbody>
</table>

Maximum Weights

<table>
<thead>
<tr>
<th></th>
<th>Normal</th>
<th>Utility</th>
</tr>
</thead>
<tbody>
<tr>
<td>Ramp Weight</td>
<td>2447</td>
<td>2027</td>
</tr>
<tr>
<td>Takeoff Weight</td>
<td>2440</td>
<td>2020</td>
</tr>
<tr>
<td>Landing Weight</td>
<td>2440</td>
<td>2020</td>
</tr>
<tr>
<td>Maximum weight</td>
<td>200</td>
<td>0</td>
</tr>
</tbody>
</table>

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

<table>
<thead>
<tr>
<th>Fuel: Approved Grades</th>
<th>100LL (Blue), 100 (Green)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Total Fuel</td>
<td>50 Gal.</td>
</tr>
<tr>
<td>Total Useable</td>
<td>48 Gal.</td>
</tr>
</tbody>
</table>

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