

PIPER WARRIOR II (P28A) BOLDFACE/OPS LIMITS

NAME:

CHECKED BY:

DATE:

SECTION I: BOLDFACE EMERGENCY PROCEDURES

<p>ENGINE FIRE DURING START  <b>STARTER – CRANK ENGINE</b>  <b>MIXTURE – LEAN</b>  <b>THROTTLE – FULL</b>  <b>ELECTRIC FUEL PUMP – OFF</b>  <b>FUEL SELECTOR – OFF</b>                      IF FIRE CONTINUES  <b>AIRCRAFT – ABANDON</b></p>	<p>POWER OFF LANDING (LANDING ASSURED/COMMITTED)  <b>IGNITION – OFF</b>  <b>MASTER SWITCH – OFF</b>  <b>FUEL SELECTOR – OFF</b>  <b>MIXTURE – LEAN</b>  <b>SEAT BELTS AND HARNESSSES – TIGHT</b></p>
<p>ENGINE FAILURE DURING TAKEOFF  <b>AIRSPEED – 73 KNOTS</b>  <b>FLAPS – AS REQUIRED</b>  <b>AIRSPEED – 63 KNOTS (WHEN LANDING ASSURED)</b></p>	
<p>ENGINE FAILURE DURING FLIGHT (ENGINE RESTART ATTEMPTED)  <b>FUEL SELECTOR – SWITCH TO TANK CONTAINING FUEL</b>  <b>ELECTRIC FUEL PUMP – ON</b>  <b>MIXTURE – RICH</b>  <b>CARBURETOR HEAT – ON</b>  <b>ENGINE GUAGES – CHECK</b>  <b>PRIMER – LOCKED</b></p>	
<p>FIRE IN FLIGHT (ELECTRICAL)  <b>MASTER SWITCH – OFF</b>  <b>VENTS – OPEN</b>  <b>CABIN HEAT – OFF</b></p>	
<p>ELECTRICAL OVERLOAD (ALTERNATOR OVER 20 AMPS ABOVE KNOWN ELECTRICAL LOAD)  <b>ALT SWITCH – ON</b>  <b>BATT SWITCH – OFF</b></p>	
<p>FIRE IN FLIGHT (ENGINE)  <b>FUEL SELECTOR – OFF</b>  <b>THROTTLE – IDLE</b>  <b>MIXTURE – LEAN</b>  <b>ELECTRIC FUEL PUMP – OFF</b></p>	
<p>INADVERTENT SPIN ENTRY  <b>THROTTLE – IDLE</b>  <b>AILERONS – NEUTRAL</b>  <b>RUDDER – FULL OPPOSITE TO DIRECTION OF ROTATION</b>  <b>YOKE – FULL FORWARD</b></p>	

**SECTION IIa: OPERATIONS LIMITATIONS & V-SPEEDS****V SPEEDS (MAX GROSS WEIGHT)**

V <sub>R</sub>	55	KIAS
V <sub>X</sub>	63	KIAS
V <sub>Y</sub>	79	KIAS
V <sub>A</sub>	111	KIAS
V <sub>NO</sub>	126	KIAS
V <sub>NE</sub>	160	KIAS
V <sub>FE</sub>	103	KIAS
V <sub>SO</sub>	44	KIAS
V <sub>S1</sub>	50	KIAS
Best Glide	73	KIAS

**ENGINE**

Maximum Horsepower	160
Revolution Speed (RPM)	Normal 500-2700 Max 2700
Oil Capacity	2-8 qts
Oil Temp	Normal 75-245°F Max 245°F
Oil Pressure	Min 25 PSI Normal 60-90 PSI Ground 90-100 PSI Idle 25-60 PSI Max 100 PSI

**FUEL**

Fuel Type	100LL
Fuel Capacity (Useable)	48 gal
Fuel Capacity (Total)	50 gal

**BAGGAGE**

Max Baggage 200 pounds

**SECTION IIb: AERO CLUB LIMITS****WINDS/WX**

Turbulent Air Penetration	111 KIAS
Max Crosswind Dry Runway	15 Knots
Winds greater than	30 Knots
Day VFR minimum	1500 feet / 3 SM
Night VFR minimum	2500 feet / 5 SM

**RUNWAY**

Length 2000 feet or sum of T/O & LDG Roll  
(Whichever greater)  
Width 50 feet

**ALTITUDE LIMITATIONS**

Minimum Altitude (when practical)	1000 feet AGL
Mountainous Terrain	2000 feet AGL
Min Altitude for maneuvering	1500 feet AGL
Min Altitude for maneuvering (Night)	2000 feet AGL
SEF (Simulated Engine Failure) below	500 feet AGL

**PROHIBITED MANEUVERS**

All Aerobatics  
Inverted Flight  
Intentional Spins  
Maneuvering at night without current/qualified CFI

**STUDENT LIMITS – Filled out by SP's ONLY**

Max Crosswind	10 Knots
Forecast or Actual Surface Wind	20 Knots
Touch & Go Landings – Prohibited	
10 Hours Solo or 30 Days without dual ride	
Solo at night – Prohibited	
No ELPs (Emergency Landing Patterns)	
Local WX minimum Solo	5000 feet / 5 SM
Cross-country WX minimum Solo	6000 feet / 6 SM